

FOREWORD

**UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION,
OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA**

The following participating entities of the Clark County, Nevada area have adopted these standard drawings.

CITY OF LAS VEGAS

Adopted by City Council action November 4, 1987

CITY OF HENDERSON

Adopted by City Council action October 20, 1987

CITY OF NORTH LAS VEGAS

Adopted by City Council action November 4, 1987

CITY OF BOULDER CITY

Adopted by City Council action January 26, 1988

CITY OF MESQUITE

Adopted by City Council action January 26, 1988

CLARK COUNTY

Adopted by Board action April 1998

REGIONAL STREET AND HIGHWAY COMMISSION

Adopted by Commission Action..... October 8, 1987

The Uniform Standard Drawings for Public Works Construction may be revised by issuance of revisions or supplements to correct errors and omissions found in these drawings and to reflect advanced thinking and the changing technology of the construction industry. Each revision will supersede any previous pertinent drawing. Upon approval by the RTC, revisions will become effective and be posted on the RTC web-site, www.rtcnv.com, by the first day of the month of January and July.

To implement this end a Specifications Committee has been established as a permanent organization to continually study and recommend changes to the standard drawings. Interested parties may address suggested changes and questions to the Regional Transportation Commission, 600 South Grand Central Parkway, Suite 350, Las Vegas, Nevada, 89106-4512.

SECTION LINE



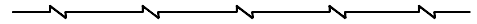
CENTERLINE OR SURVEY LINE



RIGHT-OF-WAY OR PROPERTY LINE



CUT LINE-ASPHALT CONC. OR PCC CONC.



DIRECTION OF FLOW



MISCELLANEOUS TOPOGRAPHIC SYMBOLS

VALVE [INITIALS INDICATE OWNERSHIP AND / OR TYPE]



STREET NAME SIGN



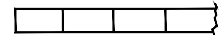
GAS CATHODE PROTECTION RECTIFIER



TEST HOLE



CONCRETE BLOCK WALL



UTILITY BOX [INITIALS INDICATE OWNERSHIP AND / OR TYPE]



FIRE ALARM BOX ON PEDESTAL



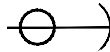
PUBLIC SERVICE UTILITY POLE, LINE TO SHOW DIRECTION OF RUN OF OVERHEAD LINE



CONCRETE MONUMENT



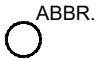
POLE WITH GUY ANCHOR



TREE [NO. INDICATES TRUCK DIA. IN INCHES]



MISCELLANEOUS SYMBOL [ABBREVIATION INDICATES TYPE]



FIRE HYDRANT



HEDGE [NOTE SIZE] [SPECIES]



FENCE



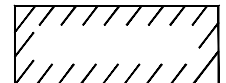
STEPS [NOTE TYPE AND NO. OF RISERS]



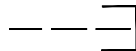
FLOW LINE OF DITCH OR CHANNEL



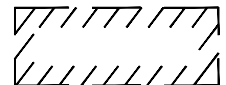
EXISTING BUILDING



EXISTING UTILITY STUB-OUT



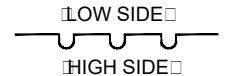
EXISTING BUILDING FOUNDATION



TRAFFIC CONTROL SIGN



RETAINING WALL



AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SYMBOLS	

DATE	DWG. NO. 101	SHEET 1 OF 4
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Effective 10/08/2020 to 12/09/2020

PLAN ONLY

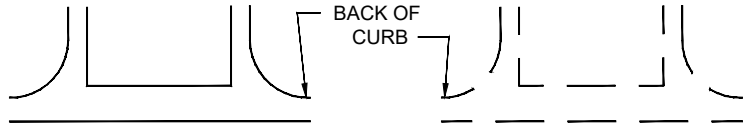
PROPOSED CONSTRUCTION

EXISTING

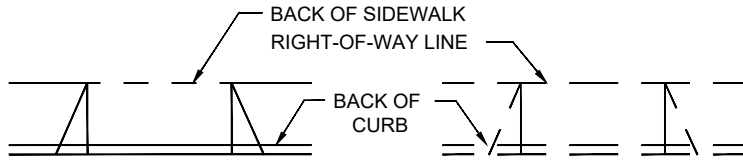
CURB AND GUTTER



VALLEY GUTTER



DRIVEWAY



WHEELCHAIR RAMP



DROP INLET



EDGE OF PAVEMENT

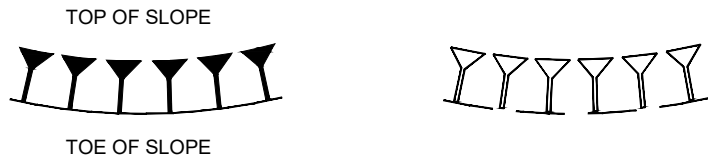


ELEVATIONS

0.00

10.00

CUT OR FILL SLOPES



NOTE □ FUTURE CONSTRUCTION ITEMS ON PLANS SHALL BE INDICATED BY A DASHED LINE AND APPROPRIATE NOTE.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

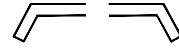
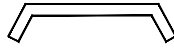
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
SYMBOLS			
DATE	DWG. NO.	101	SHEET 2 OF 4

PLAN ONLY

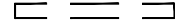
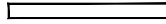
PROPOSED CONSTRUCTION

EXISTING

WING TYPE HEADWALL



VALLEY GUTTER



UNDERGROUND UTILITY
WITH MANHOLE AND
CASING



OWNERSHIP INDICATED BY LINE LEGEND

SIZE AND TYPE OF CONDUIT SHALL
BE PLACED ON CONDUIT WHEN
AVAILABLE

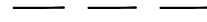
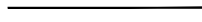
LEGEND

- TSI = TRAFFIC SIGNAL INTERCONNECT
- E = ELECTRIC
- FA = FIRE ALARM
- SL = STREET LIGHT
- CATV = CABLE TELEVISION

- SS = SANITARY SEWER
- SD = STORM DRAIN
- W = WATER
- S-G = STEEL GAS
- PL-G = PLASTIC GAS
- T = TELEPHONE

PROFILE ONLY

CENTERLINE GRADE



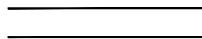
TOP OF CURB OR FLOW
LINE



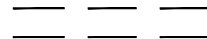
PIPE



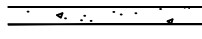
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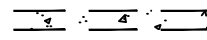
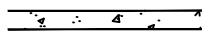
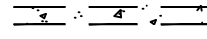
OR



OR



OR



AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SYMBOLS

DATE	DWG. NO.	101	SHEET	3 OF 4
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MISCELLANEOUS ELECTRICAL SYMBOLS

<u>PLAN ONLY</u>	<u>EXISTING</u>	<u>PROPOSED CONSTRUCTION</u>
TRAFFIC SIGNAL CONTROLLER		
PULL BOX [INITIALS INDICATE OWNERSHIP AND NUMBER INDICATES SIZE]	SL 	SL-SIZE
TRAFFIC SIGNAL WITH LUMINAIRE		
TRAFFIC SIGNAL DETECTOR LOOP		
SERVICE POINT, PAD MOUNTED		
7 GAGE LIGHTING STANDARD		
11 GAGE LIGHTING STANDARD		
LUMINAIRE 100 W [HPS] □ □ 55 W [IND]		
LUMINAIRE 150 W [HPS] □ □ 150 W [IND]		
200 W LUMINAIRE		
LUMINAIRE 250 W [HPS] □ □ 150 W [IND]		
LUMINAIRE 400 W [HPS] □ □ 250 W [IND]		
750 W LUMINAIRE		
TRAFFIC SIGNAL POLE		
SCHOOL FLASHER		

AGENCY APPROVED	B	C		L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SYMBOLS	
DATE 12-12-9□	DWG. NO. 101
SHEET	4 OF 4

Effective 10/08/2020 to 12/09/2020

A	- A	E	- E
AIP	- A P	E	- E
A	- A	ECR	- E C R
A	- A	EC	- E C
A	- A, G	EBS	- E B S
ACP	- A C P		- B C S
AC	- A C	ETS	- E T S
A	- A		- T S
BC	- B C	EVC	- E V C
BCR	- B C R	E	- E
BVC	- B V C	F	- F
BM	- B M	FG	- F G
Bdr L	- B d r L	FA	- F A
CATV	- C A T V	FH	- F H
C-C	- C - C	F	- F
C	- C	GM	- G M
CBC	- C B C	GR	- G R
CLV	- C L V	PL-G	- P L - G
COH	- C O H	S-G	- S - G
CM	- C M	GB	- G B
CNLV	- C N L V	G	- G
CC	- C C	Hd	- H d
CCSD	- C C S D	I	- I
	- D	INT	- I N T
CO	- C O	INV	- I N V
C	- C	ISL	- I S L
C PCC	- C P C C	JB	- J B
C	- C	LOC	- L O C
C	- C	L	- L
C	- C	LF	- L F
C	- C	LVVWD	- L V V W D
C	- C		- D
CIP	- C I P	MH	- M H
C	- C	M	- M
C Yd, CY	- C Y d, C Y	M	- M
C F CF	- C F C F	M	- M
C	- C	N	- N
CF	- C F	NTS	- N T S
D	- D	OC	- O C
D	- D	OG	- O G
D	- D		- O - G
DI	- D I		- O - G
E	- E	P	- P
E/	- E /	PI	- P I
EP	- E P	PRC	- P R C
EO	- E O	PC	- P C
E	- E	PT	- P T
EM	- E M	PCC	- P C C
		PCC, C	- P C C, C

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	ABBREVIATIONS						
	DATE	DWG. NO.	105	SHEET	1 OF 2		

PP - P...r P...
 P - P...r
 Pl - Pr...r...L...
 Pr... - Pr...
 PB - P...B...
 RP - R...d...P...
 R - R...d...
 RR - R...r...d
 R... - R...r...d
 RC - R...r...d C...r...
 RCB - R...r...d C...r... B...
 RCP - R...r...d C...r... P...
 R... - R...
 RT - R...
 R/W - R...
 RD - R...d
 SS - S...r...S...r
 S... - S...
 S/ - S...
 SW - S...
 S FT, SF - S...
 S YD, SY - S...rd
 S... - S...
 SHP - S...H...r...r... P...
 SD - S...r... D...
 STD - S...rd
 S... - S...r...r...r... S...r...
 S... - S...
 SL - S...
 T - T...
 T... - T...
 TBA - T...B...Ad...
 TBR - T...B...R...
 TC - T...C...
 TP - T...P...
 TS - T...S...
 TSI - T...S...
 Tr... - Tr...
 T... - T...
 UG - U...d...r...
 V... - V...
 V... - V...
 VC - V...C...
 VG - V...G...
 VCP - V...d...C...P...
 W - W...
 WM - W...M...
 W/ - W...
 Yd - Y...rd

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		ABBREVIATIONS						
		DATE	DWG. NO.	105	SHEET	2 OF 2		

R-V	RESIDENTIAL								MINOR COLLECTOR							
	N=5.0 Tr=5.0				H=5.5 Tr=5.5				N=10.0 Tr=10.0				H=11.5 Tr=11.5			
	SN	AC	T-II	T-I	SN	AC	T-II	T-I	SN	AC	T-II	T-I	SN	AC	T-II	T-I
1	1.70	2.0	4.0	5.0	2.00	2.5	4.0	5.0	2.25	3.0	4.0	5.5	2.50	3.5	4.0	7.5
18	1.70	2.0	4.0	5.0	1.95	2.5	4.0	5.5	2.20	3.0	4.0	5.0	2.45	3.5	4.0	7.0
20	1.65	2.0	4.0	4.5	1.90	2.5	4.0	5.0	2.15	3.0	4.0	5.5	2.40	3.5	4.0	5.5
22	1.60	2.0	4.0	4.0	1.85	2.5	4.0	4.5	2.05	3.0	4.0	5.0	2.35	3.5	4.0	5.0
24	1.55	2.0	7.5	NA	1.80	2.5	4.0	4.0	2.00	3.0	4.0	4.5	2.25	3.5	4.0	5.0
26	1.50	2.0	7.0	NA	1.75	2.5	7.5	NA	1.95	3.0	4.0	4.0	2.20	3.5	4.0	4.5
28	1.45	2.0	5.5	NA	1.70	2.5	7.0	NA	1.90	3.0	7.5	NA	2.15	3.5	4.0	4.0
30	1.40	2.0	5.0	NA	1.65	2.5	6.5	NA	1.85	3.0	7.0	NA	2.10	3.5	7.5	NA
32	1.35	2.0	5.5	NA	1.60	2.5	6.0	NA	1.80	3.0	6.5	NA	2.05	3.5	7.0	NA
34	1.35	2.0	5.5	NA	1.55	2.5	6.0	NA	1.75	3.0	6.0	NA	2.00	3.5	6.5	NA
36	1.30	2.0	5.0	NA	1.50	2.5	5.5	NA	1.70	3.0	5.5	NA	1.95	3.5	6.0	NA
38	1.25	2.0	5.0	NA	1.45	2.5	5.0	NA	1.65	3.0	5.0	NA	1.85	3.5	5.5	NA
40	1.20	2.0	4.5	NA	1.40	2.5	4.5	NA	1.60	3.0	5.0	NA	1.80	3.5	5.0	NA
42	1.15	2.0	4.0	NA	1.35	2.5	4.0	NA	1.55	3.0	4.5	NA	1.75	3.5	4.5	NA
44	1.15	2.0	4.0	NA	1.35	2.5	4.0	NA	1.55	3.0	4.5	NA	1.70	3.5	4.0	NA
46	1.10	2.0	4.0	NA	1.30	2.0	5.0	NA	1.50	3.0	4.0	NA	1.70	3.5	4.0	NA
48	1.05	2.0	4.0	NA	1.25	2.0	5.0	NA	1.45	3.0	4.0	NA	1.65	3.0	5.0	NA
50	1.05	2.0	4.0	NA	1.20	2.0	4.5	NA	1.40	3.0	4.0	NA	1.60	3.0	5.0	NA
52	1.00	2.0	4.0	NA	1.20	2.0	4.5	NA	1.35	3.0	4.0	NA	1.55	3.0	4.5	NA
54	0.95	2.0	4.0	NA	1.15	2.0	4.0	NA	1.30	3.0	4.0	NA	1.50	3.0	4.0	NA
56	0.95	2.0	4.0	NA	1.10	2.0	4.0	NA	1.30	3.0	4.0	NA	1.45	3.0	4.0	NA
58	0.90	2.0	4.0	NA	1.05	2.0	4.0	NA	1.25	3.0	4.0	NA	1.40	3.0	4.0	NA
60	0.85	2.0	4.0	NA	1.05	2.0	4.0	NA	1.20	3.0	4.0	NA	1.35	3.0	4.0	NA
62	0.85	2.0	4.0	NA	1.00	2.0	4.0	NA	1.15	3.0	4.0	NA	1.35	3.0	4.0	NA
64	0.80	2.0	4.0	NA	0.95	2.0	4.0	NA	1.15	3.0	4.0	NA	1.30	3.0	4.0	NA
66	0.75	2.0	4.0	NA	0.95	2.0	4.0	NA	1.10	3.0	4.0	NA	1.25	3.0	4.0	NA
68	0.75	2.0	4.0	NA	0.90	2.0	4.0	NA	1.05	3.0	4.0	NA	1.20	3.0	4.0	NA
70	0.70	2.0	4.0	NA	0.85	2.0	4.0	NA	1.00	3.0	4.0	NA	1.15	3.0	4.0	NA
72	0.70	2.0	4.0	NA	0.80	2.0	4.0	NA	1.00	3.0	4.0	NA	1.15	3.0	4.0	NA
74	0.65	2.0	4.0	NA	0.75	2.0	4.0	NA	0.95	3.0	4.0	NA	1.10	3.0	4.0	NA
76	0.65	2.0	4.0	NA	0.75	2.0	4.0	NA	0.90	3.0	4.0	NA	1.05	3.0	4.0	NA
78	0.65	2.0	4.0	NA	0.70	2.0	4.0	NA	0.85	3.0	4.0	NA	1.05	3.0	4.0	NA

NOTES

1. THIS CHART WAS CONSTRUCTED USING THE 1993 AASHTO PAVEMENT DESIGN GUIDE, 1994 NDOT MANUAL AND THE 2000 RTC DESIGN CRITERIA, SECTION 401.01.02 OF THE STANDARD SPECIFICATIONS.
2. AN AVERAGE R-VALUE MAY BE USED IF IT IS REPRESENTATIVE OF ALL PROJECT CONDITIONS.
3. ADDITIONAL DESIGN COMPENSATION IS REQUIRED IF EXPANSIVE SOILS, HYDRO-COLLAPSIBLE SOILS, OR SOLUBLE MATERIALS ARE PRESENT.
4. AC DEPTHS SHOWN ARE MINIMUMS AND 4" MINIMUM TYPE II IS REQUIRED. OTHER COMBINATIONS THAT MEET OR EXCEED THE STRUCTURAL NUMBER REQUIREMENTS ARE ACCEPTABLE.

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
401	PLANTMIX BITUMINOUS PAVEMENTS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		PAVEMENT STRUCTURE DESIGN GUIDELINE CHART FOR MINOR COLLECTOR AND RESIDENTIAL ROADWAYS						
		DATE 11-10-04	DWG. NO.	200.1				

R-V	MAJOR COLLECTOR								ARTERIAL							
	N Tr 8.0				H Tr 8.5				N Tr 9.0				H Tr 9.5			
	SN	AC	T-II	T-I	SN	AC	T-II	T-I	SN	AC	T-II	T-I	SN	AC	T-II	T-I
1	3.35	4.0	4.0	13.5	3.5	4.5	4.0	14.5	4.25	5.0	4.0	18.5	4.55	5.5	4.0	19.5
18	3.30	4.0	4.0	13.0	3.55	4.5	4.0	14.0	4.15	5.0	4.0	17.5	4.45	5.5	4.0	19.0
20	3.20	4.0	4.0	12.0	3.45	4.5	4.0	13.0	4.05	5.0	4.0	17.5	4.35	5.5	4.0	18.0
22	3.10	4.0	4.0	11.5	3.40	4.5	4.0	12.5	3.95	5.0	4.0	17.0	4.25	5.5	4.0	17.0
24	3.05	4.0	4.0	11.0	3.30	4.5	4.0	11.5	3.85	5.0	4.0	15.0	4.15	5.5	4.0	17.0
26	2.95	4.0	4.0	10.0	3.20	4.5	4.0	10.5	3.75	5.0	4.0	14.0	4.05	5.5	4.0	15.0
28	2.90	4.0	4.0	9.5	3.15	4.5	4.0	10.0	3.7	5.0	4.0	13.0	3.95	5.5	4.0	14.0
30	2.80	4.0	4.0	8.5	3.05	4.5	4.0	9.0	3.55	5.0	4.0	12.00	3.85	5.5	4.0	13.5
32	2.75	4.0	4.0	8.0	2.95	4.5	4.0	8.5	3.45	5.0	4.0	11.5	3.75	5.5	4.0	12.5
34	2.7	4.0	4.0	7.0	2.90	4.5	4.0	8.0	3.40	5.0	4.0	11.0	3.7	5.5	4.0	11.5
36	2.6	4.0	4.0	6.5	2.80	4.5	4.0	7.0	3.30	5.0	4.0	10.0	3.55	5.5	4.0	10.5
38	2.50	4.0	4.0	6.0	2.75	4.5	4.0	6.5	3.20	5.0	4.0	9.0	3.45	5.5	4.0	9.5
40	2.45	4.0	4.0	5.5	2.7	4.5	4.0	5.5	3.15	5.0	4.0	8.5	3.35	5.5	4.0	9.0
42	2.40	4.0	4.0	5.0	2.6	4.5	4.0	5.0	3.05	5.0	4.0	7.5	3.30	5.5	4.0	8.5
44	2.35	4.0	4.0	4.5	2.55	4.5	4.0	4.5	2.95	5.0	4.0	7.0	3.20	5.5	4.0	7.5
46	2.25	4.0	4.0	4.0	2.45	4.5	4.0	4.0	2.90	5.0	4.0	6.5	3.10	5.5	4.0	7.5
48	2.20	4.0	7.0	NA	2.40	4.5	7.0	NA	2.80	5.0	4.0	5.5	3.05	5.5	4.0	7.0
50	2.15	4.0	6.5	NA	2.35	4.5	6.5	NA	2.75	5.0	4.0	5.0	2.95	5.5	4.0	5.0
52	2.10	4.0	6.0	NA	2.30	4.5	6.0	NA	2.7	5.0	4.0	4.0	2.90	5.5	4.0	4.5
54	2.05	4.0	5.5	NA	2.20	4.5	5.5	NA	2.6	5.0	7.5	NA	2.80	5.5	4.0	4.0
56	2.00	4.0	5.0	NA	2.15	4.5	5.0	NA	2.55	5.0	7.0	NA	2.75	5.5	7.0	NA
58	1.95	4.0	5.0	NA	2.10	4.5	4.5	NA	2.45	5.0	6.0	NA	2.65	5.5	6.5	NA
60	1.90	4.0	4.5	NA	2.05	4.5	4.0	NA	2.40	5.0	5.5	NA	2.6	5.5	6.0	NA
62	1.85	4.0	4.0	NA	2.00	4.0	5.0	NA	2.35	5.0	5.0	NA	2.50	5.5	5.0	NA
64	1.80	4.0	4.0	NA	1.95	4.0	5.0	NA	2.30	5.0	4.5	NA	2.45	5.5	4.5	NA
66	1.75	4.0	4.0	NA	1.90	4.0	4.5	NA	2.20	5.0	4.0	NA	2.40	5.5	4.0	NA
68	1.70	4.0	4.0	NA	1.85	4.0	4.0	NA	2.15	4.5	5.0	NA	2.35	5.0	5.0	NA
70	1.65	4.0	4.0	NA	1.80	4.0	4.0	NA	2.10	4.5	4.5	NA	2.25	5.0	4.5	NA
72	1.6	4.0	4.0	NA	1.75	4.0	4.0	NA	2.05	4.5	4.0	NA	2.20	5.0	4.0	NA
74	1.55	4.0	4.0	NA	1.70	4.0	4.0	NA	2.00	4.0	5.0	NA	2.15	4.5	5.0	NA
76	1.50	4.0	4.0	NA	1.65	4.0	4.0	NA	1.95	4.0	4.5	NA	2.10	4.5	4.5	NA
78	1.45	4.0	4.0	NA	1.6	4.0	4.0	NA	1.90	4.0	4.0	NA	2.05	4.5	4.0	NA

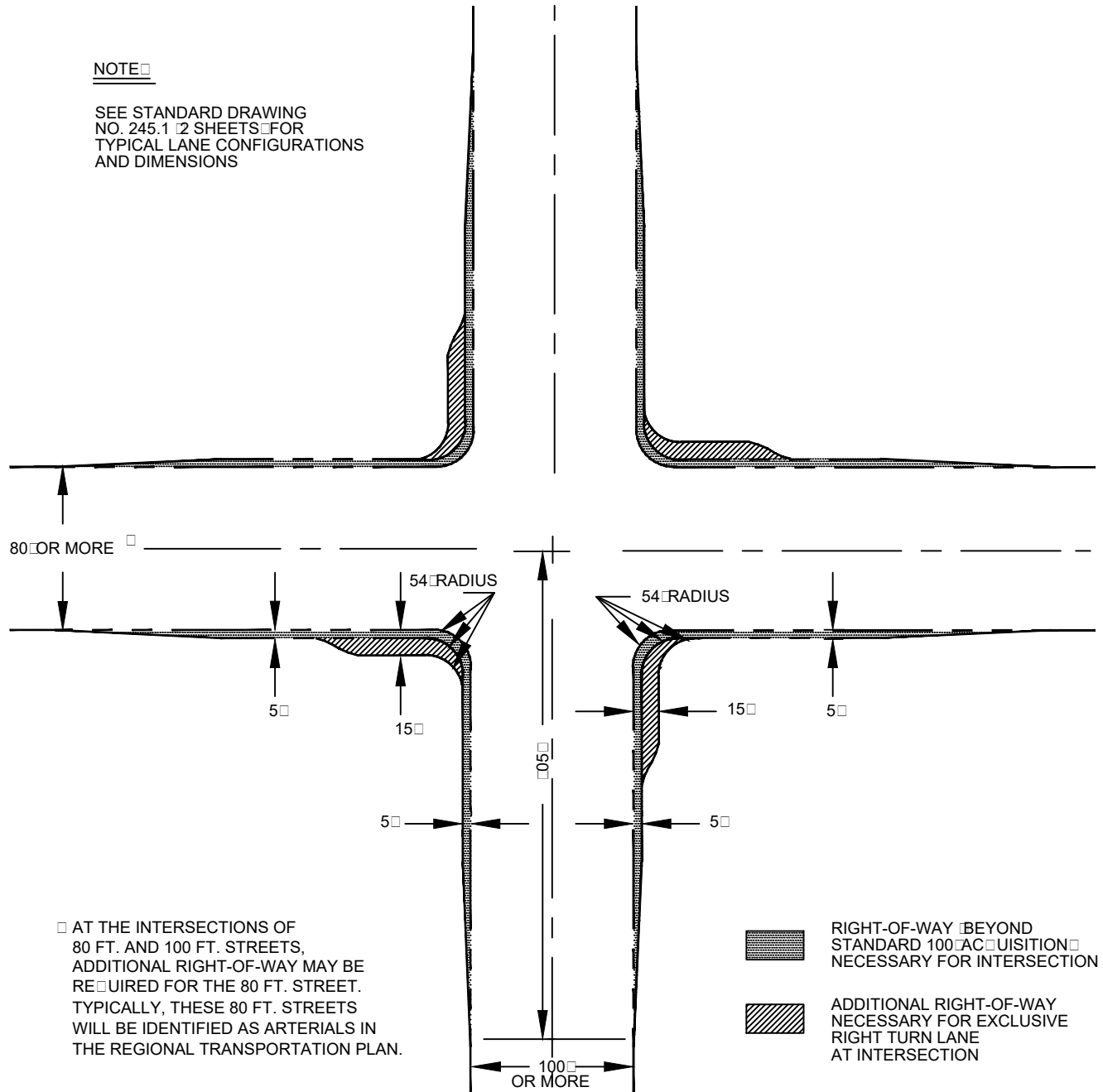
NOTES

1. THIS CHART WAS CONSTRUCTED USING THE 1993 AASHTO PAVEMENT DESIGN GUIDE, 199 NDOT MANUAL AND THE 2000 RTC DESIGN CRITERIA, SECTION 401.01.02 OF THE STANDARD SPECIFICATIONS.
2. A TRAFFIC STUDY MAY BE REQUIRED IF TI < 9.5.
3. AN AVERAGE R-VALUE MAY BE USED IF IT IS REPRESENTATIVE OF ALL PROJECT CONDITIONS.
4. ADDITIONAL DESIGN COMPENSATION IS REQUIRED IF EXPANSIVE SOILS, HYDRO-COLLAPSIBLE SOILS, OR SOLUBLE MATERIALS ARE PRESENT.
5. AC DEPTHS SHOWN ARE MINIMUMS AND 4" MINIMUM TYPE II IS REQUIRED OTHER COMBINATIONS THAT MEET OR EXCEED THE STRUCTURAL NUMBER REQUIREMENTS ARE ACCEPTABLE.

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
401	PLANTMIX BITUMINOUS PAVEMENTS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		PAVEMENT STRUCTURE DESIGN GUIDELINE CHART FOR MAJOR COLLECTOR AND ARTERIAL ROADWAYS						
		DATE 11-10-04	DWG. NO.	200				

NOTE

SEE STANDARD DRAWING
NO. 245.1 2 SHEETS FOR
TYPICAL LANE CONFIGURATIONS
AND DIMENSIONS

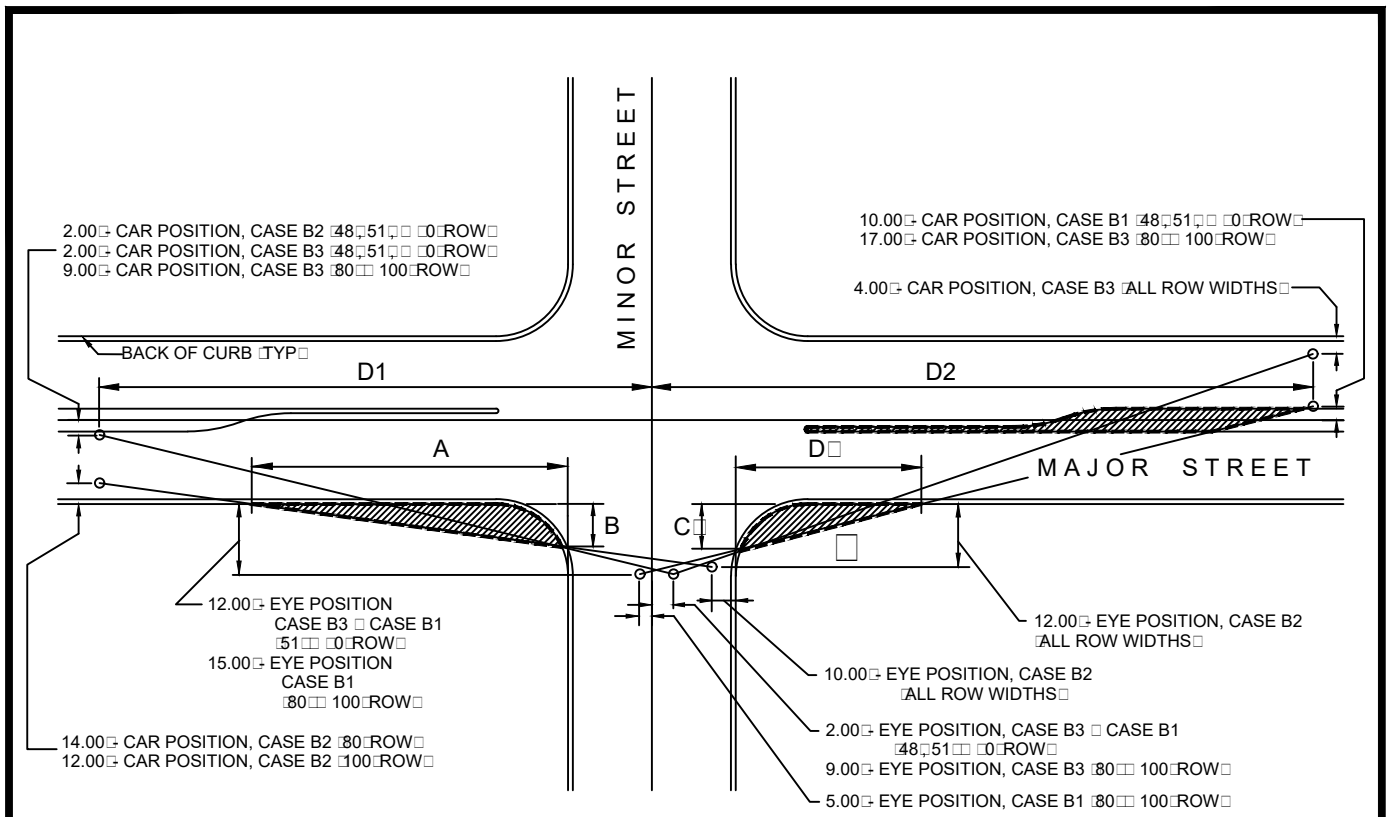


AT THE INTERSECTIONS OF
80 FT. AND 100 FT. STREETS,
ADDITIONAL RIGHT-OF-WAY MAY BE
REQUIRED FOR THE 80 FT. STREET.
TYPICALLY, THESE 80 FT. STREETS
WILL BE IDENTIFIED AS ARTERIALS IN
THE REGIONAL TRANSPORTATION PLAN.

RIGHT-OF-WAY BEYOND
STANDARD 100' ACQUISITION
NECESSARY FOR INTERSECTION

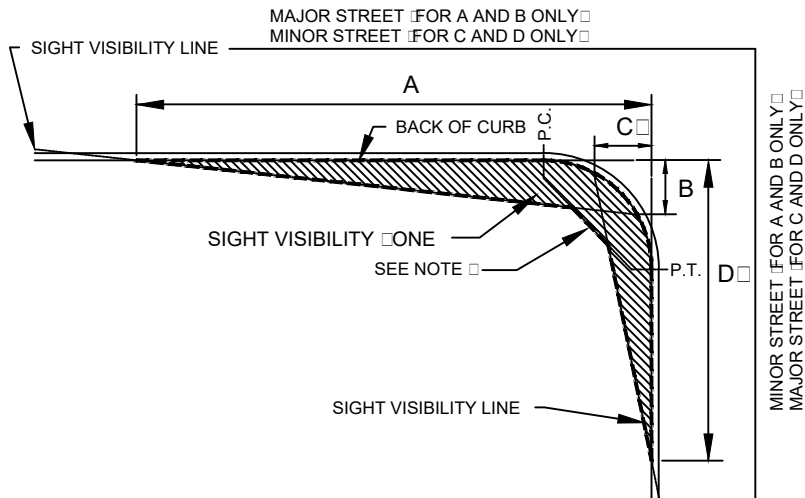
ADDITIONAL RIGHT-OF-WAY
NECESSARY FOR EXCLUSIVE
RIGHT TURN LANE
AT INTERSECTION

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
ADDITIONAL RIGHT-OF-WAY REQUIRED AT MAJOR INTERSECTIONS							
DATE	7-10-03	DWG. NO.	201.1				



INTERSECTION SIGHT VISIBILITY ONE

THE SIGHT VISIBILITY ONE CREATED BY "C" AND "D" IS NOT REQUIRED IF THE INTERSECTION IS CONTROLLED BY AN EXISTING TRAFFIC SIGNAL



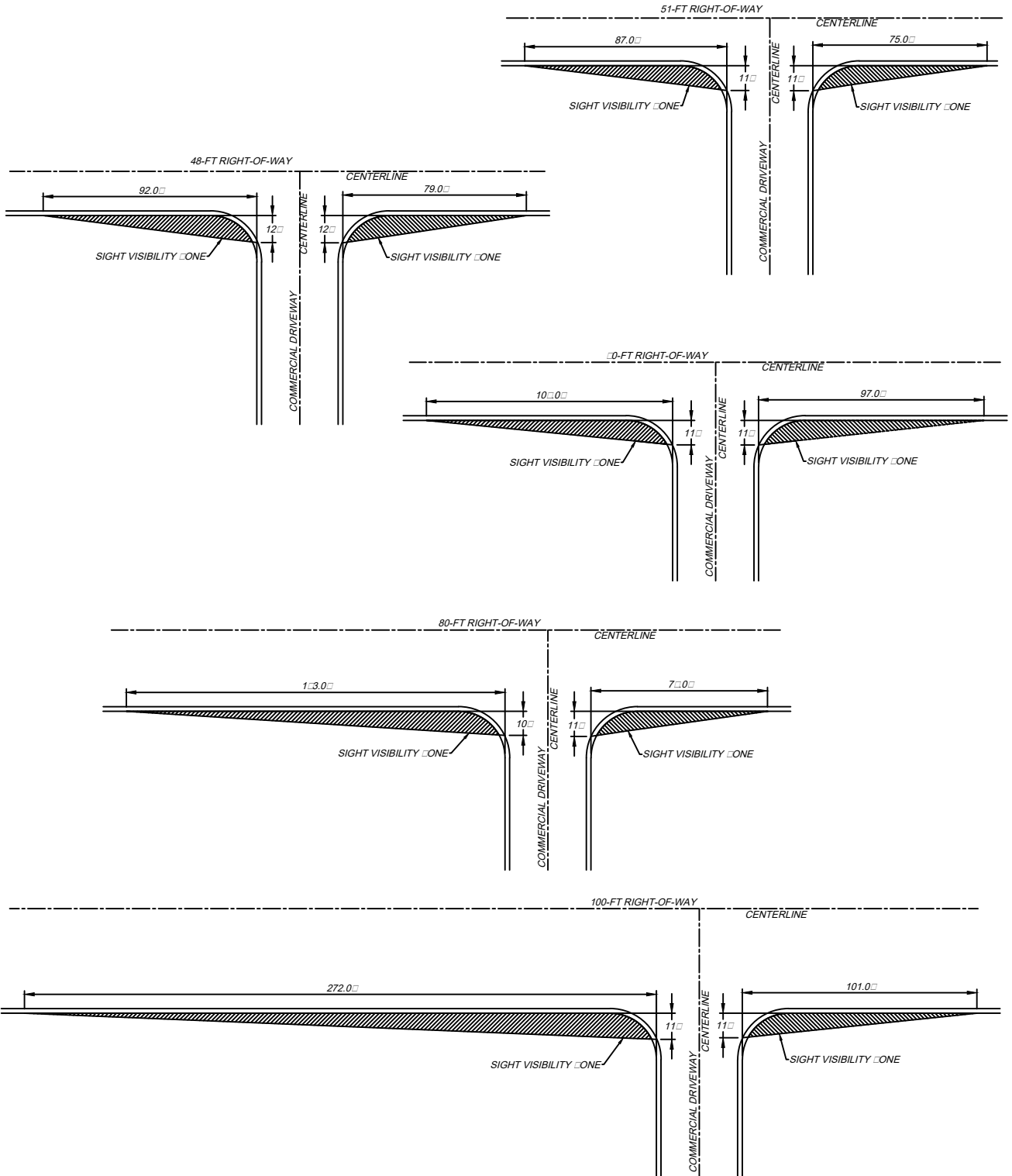
TYPICAL INTERSECTION CORNER

SEE SHEETS 3 THROUGH 8 FOR TYPICAL INTERSECTION SIGHT VISIBILITY ONE LIMITS

NOTE FOR SIGHT ONE DIMENSIONS, SEE SETBACK TABLE ON SHEET 2 OF THIS STANDARD DRAWING.

Effective 10/08/2020 to 12/09/2020

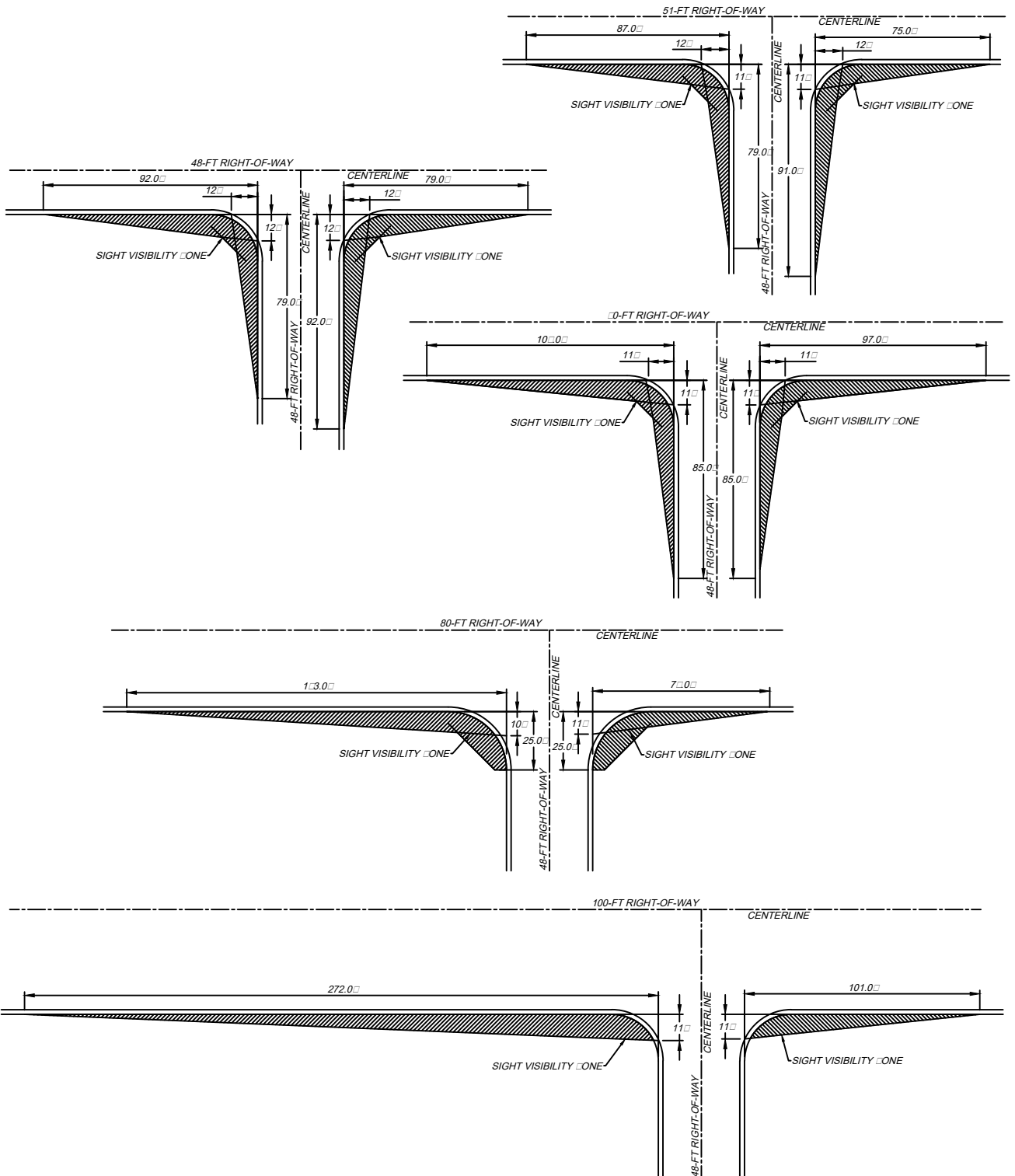
SPECIFICATION REFERENCE		AGENCY APPROVED						
		B	C	H	L	M	N	R
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SIGHT VISIBILITY ONES AT INTERSECTIONS						
		DATE 01-09-20		DWG. NO. 201.2			SHEET 1 OF 8	



TYPICAL SIGHT VISIBILITY TRIANGLES FOR COMMERCIAL DRIVEWAY APPROACHES

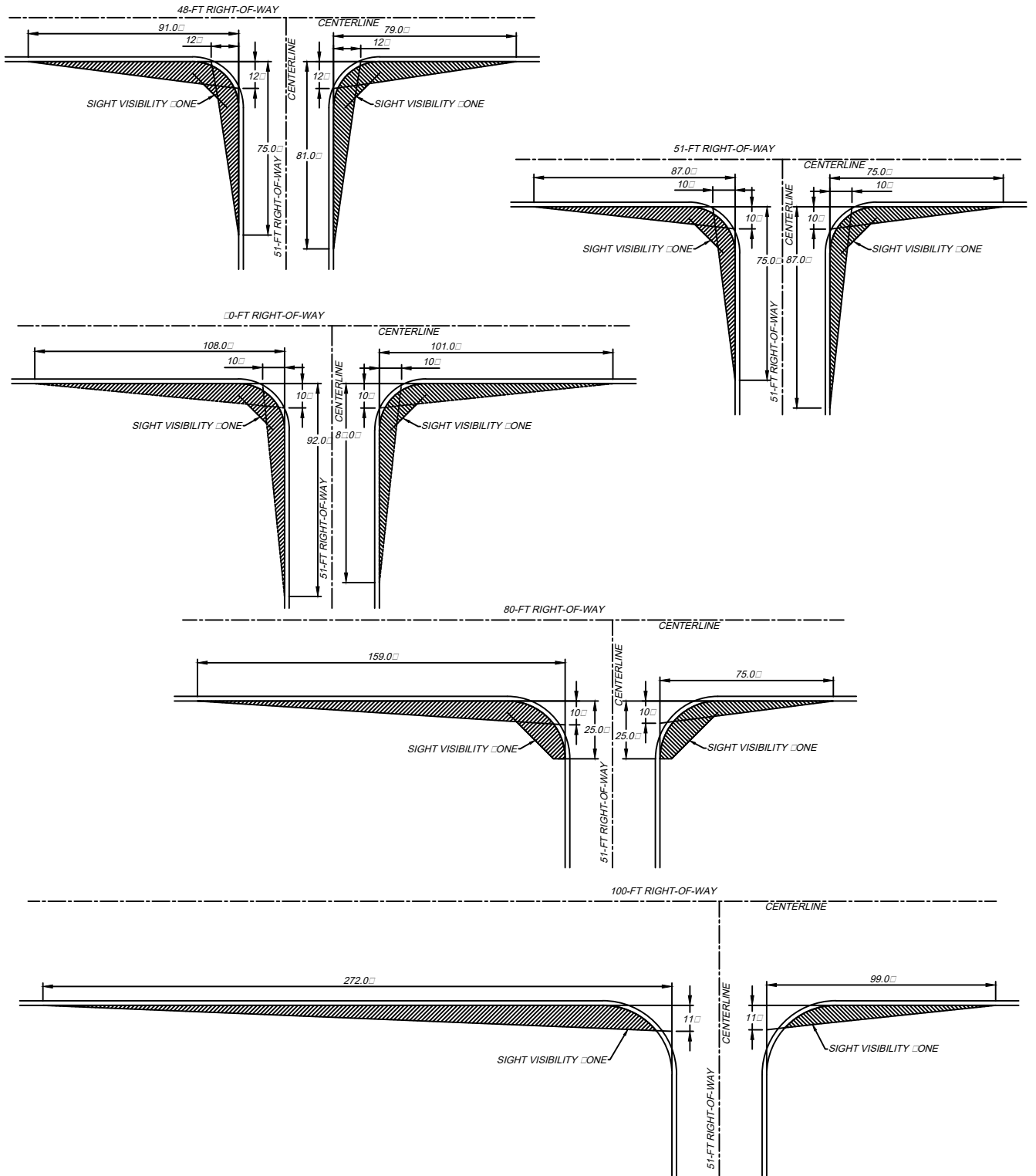
	AGENCY APPROVED	B	C	H	L	M	N	R
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
	SIGHT VISIBILITY TRIANGLES AT INTERSECTIONS							
	DATE 01-09-20	DWG. NO. 201.2				SHEET 3 OF 8		

Effective 10/08/2020 to 12/09/2020



TYPICAL SIGHT VISIBILITY TRIANGLES FOR 48-FT RIGHT-OF-WAY ROADWAY APPROACHES

		AGENCY APPROVED	B	C	H	L	M	N	R	
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA								
		SIGHT VISIBILITY TRIANGLES AT INTERSECTIONS								
		DATE 01-09-20	DWG. NO. 201.2				SHEET 4 OF 8			

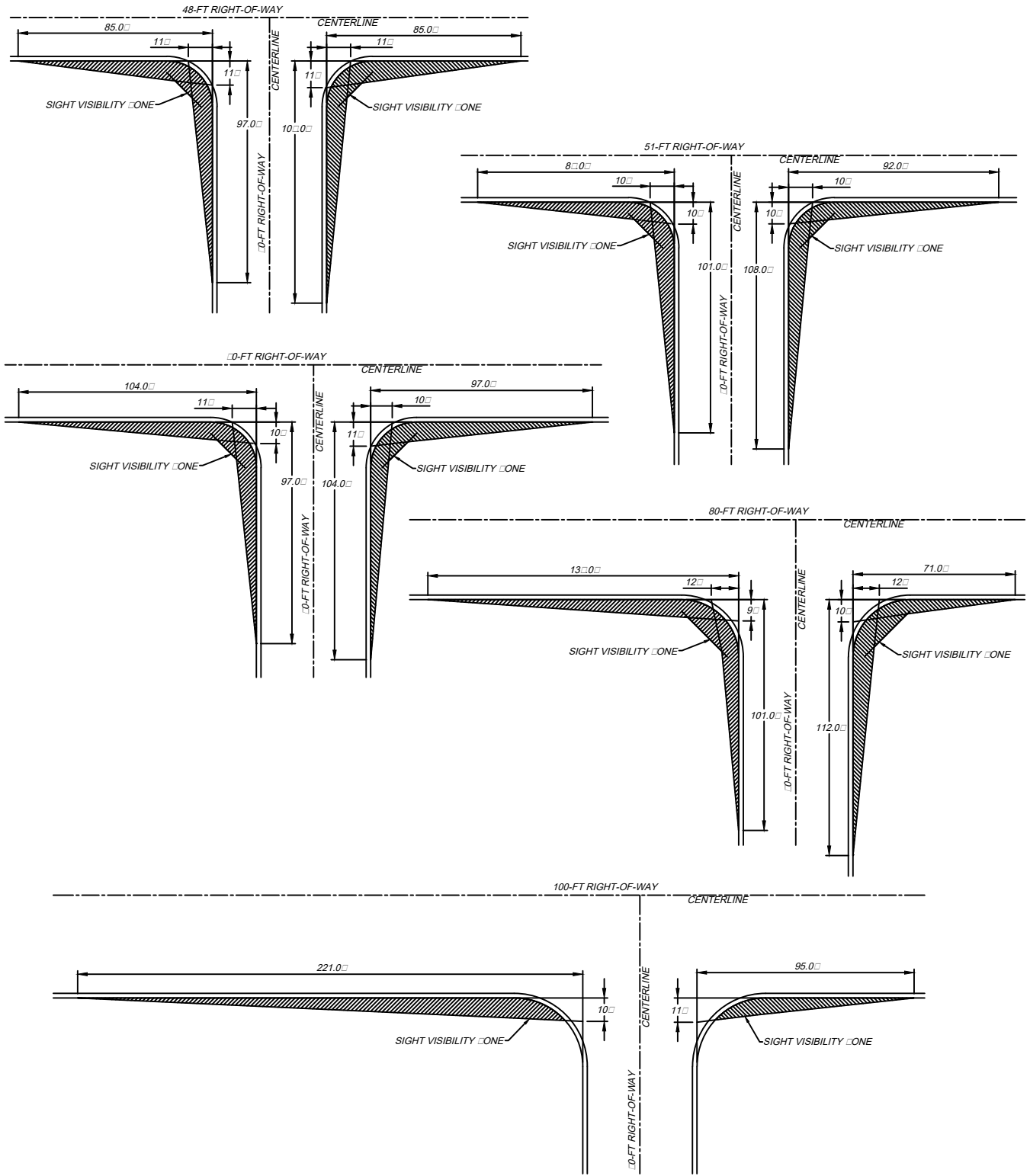


TYPICAL SIGHT VISIBILITY TRIANGLES FOR 51-FT RIGHT-OF-WAY ROADWAY APPROACHES

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SIGHT VISIBILITY TRIANGLES AT INTERSECTIONS	
DATE 01-09-20	DWG. NO. 201.2
SHEET 5 OF 8	



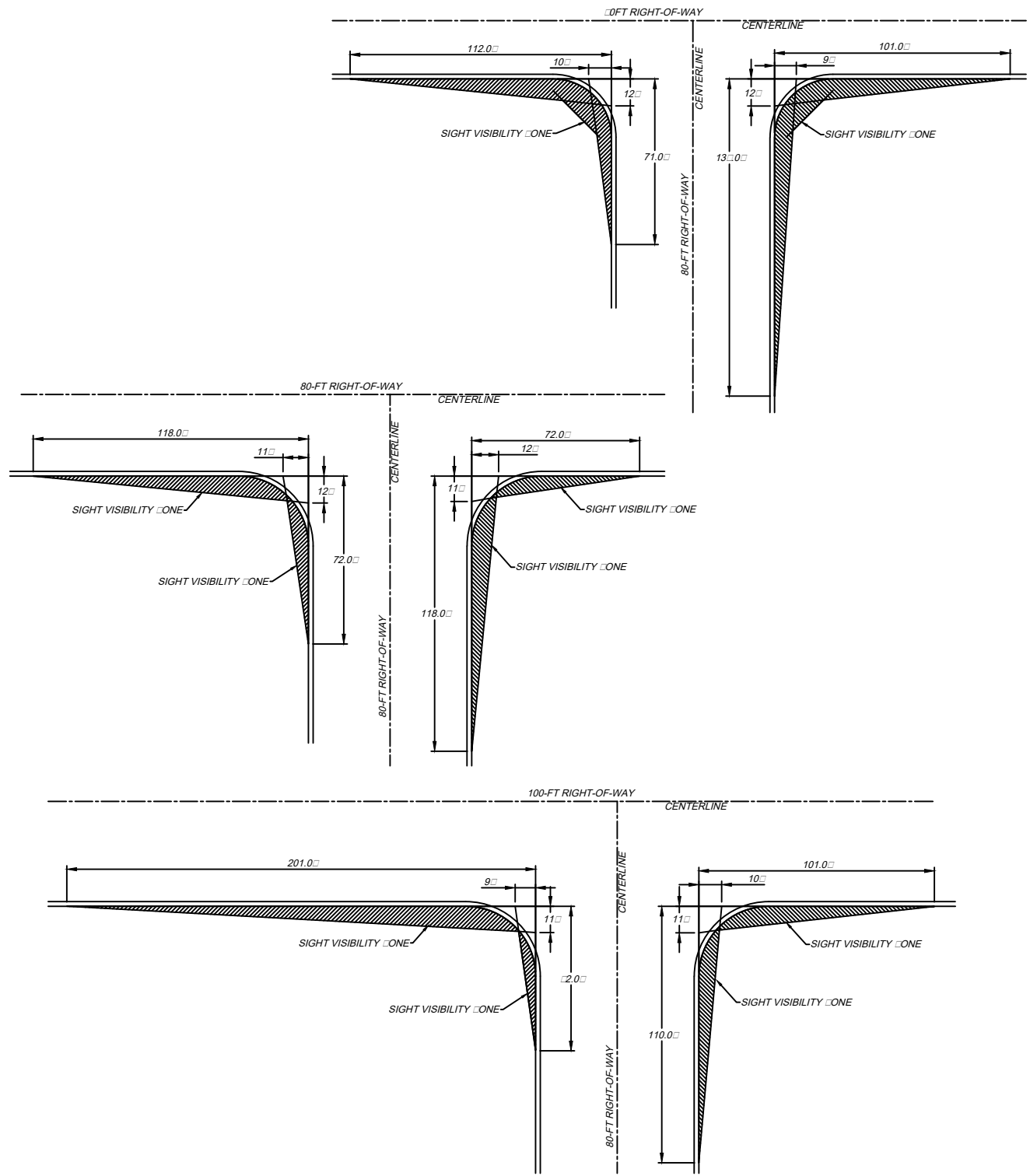
TYPICAL SIGHT VISIBILITY TRIANGLES FOR 48-FT RIGHT-OF-WAY ROADWAY APPROACHES

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SIGHT VISIBILITY TRIANGLES AT INTERSECTIONS	
DATE 01-09-20	DWG. NO. 201.2
SHEET 1 OF 8	

Effective 10/08/2020 to 12/09/2020



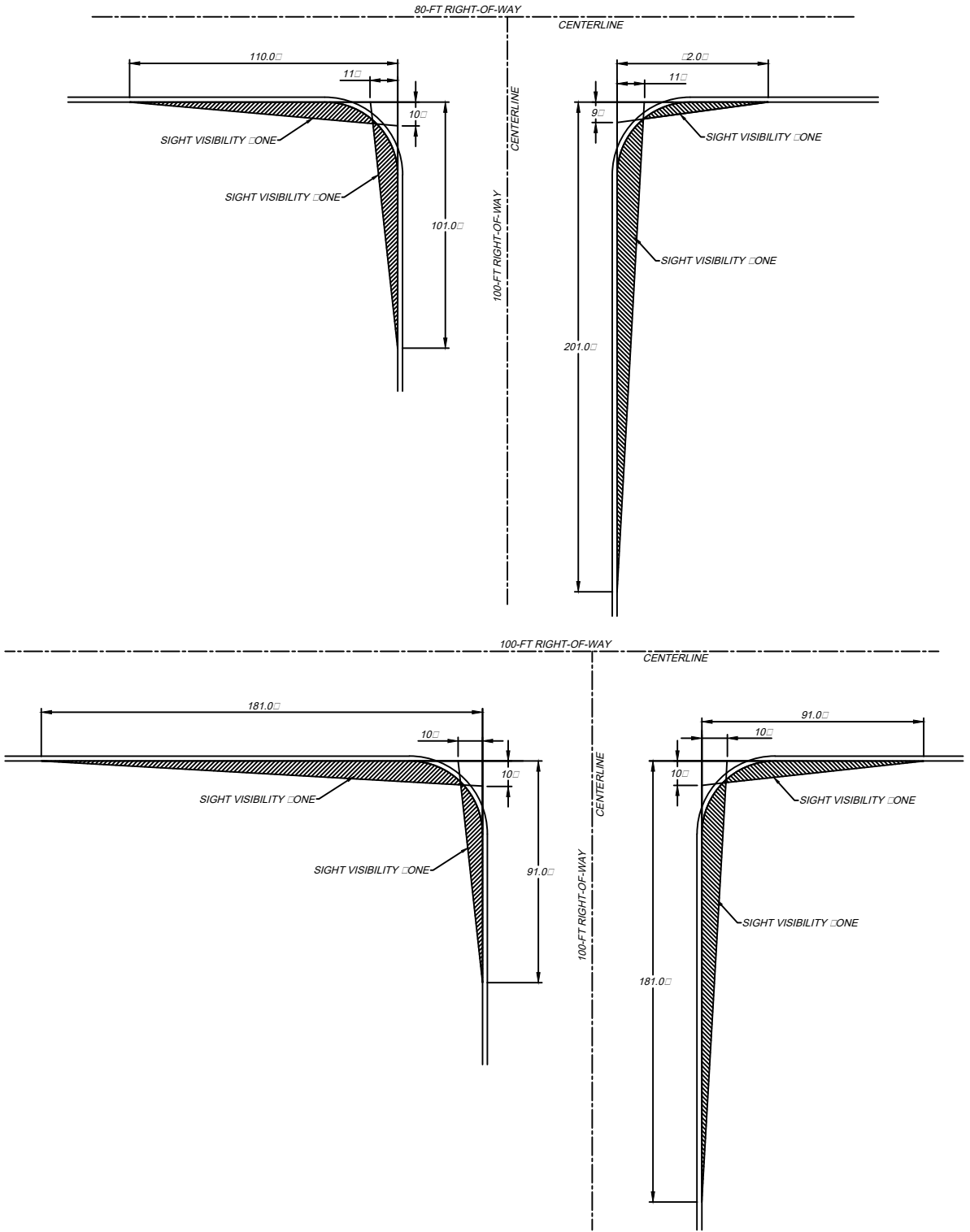
TYPICAL SIGHT VISIBILITY TRIANGLES FOR 80-FT RIGHT-OF-WAY ROADWAY APPROACHES

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
SIGHT VISIBILITY TRIANGLES AT INTERSECTIONS		
DATE 01-09-20	DWG. NO. 201.2	SHEET 7 OF 8

Effective 10/08/2020 to 12/09/2020



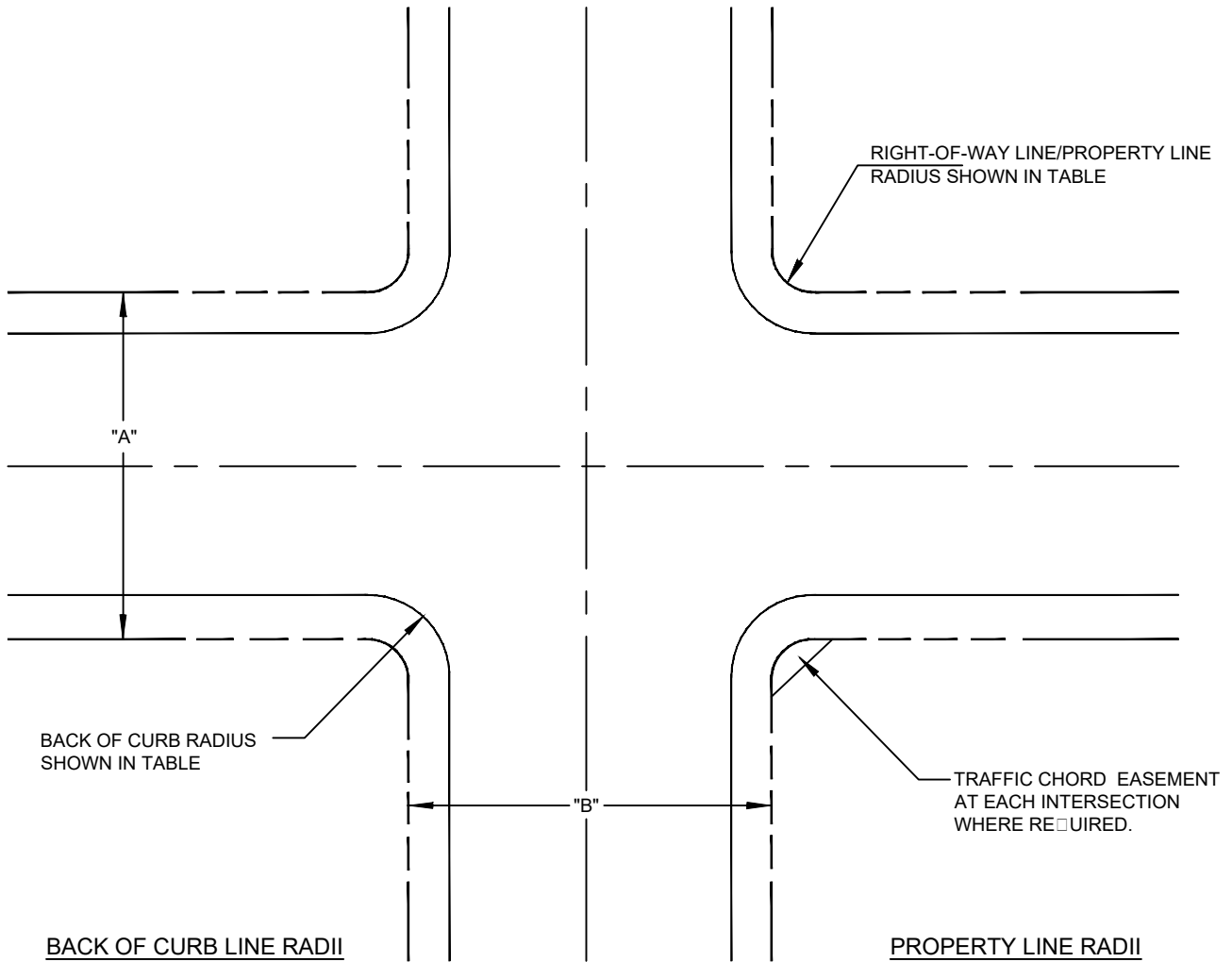
TYPICAL SIGHT VISIBILITY TRIANGLES FOR 100-FT RIGHT-OF-WAY ROADWAY APPROACHES

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SIGHT VISIBILITY TRIANGLES AT INTERSECTIONS	
DATE 01-09-20	DWG. NO. 201.2
SHEET 8 OF 8	

Effective 10/08/2020 to 12/09/2020



BACK OF CURB LINE RADII

PROPERTY LINE RADII

"A" \ "B"	"B"		
	0' OR LESS	80'	100' OR MORE
0' OR LESS	20'	25'	30'
80'	25'	30'	30'
100' OR MORE	30'	30'	30'

NOTES
 A TRAFFIC CHORD EASEMENT WILL BE REQUIRED AT THIS CORNER.

"A" \ "B"	"B"		
	0' OR LESS	80'	100' OR MORE
0' OR LESS	15'	25'	30'
80'	25'	35'	35'
100' OR MORE	30'	35'	35'

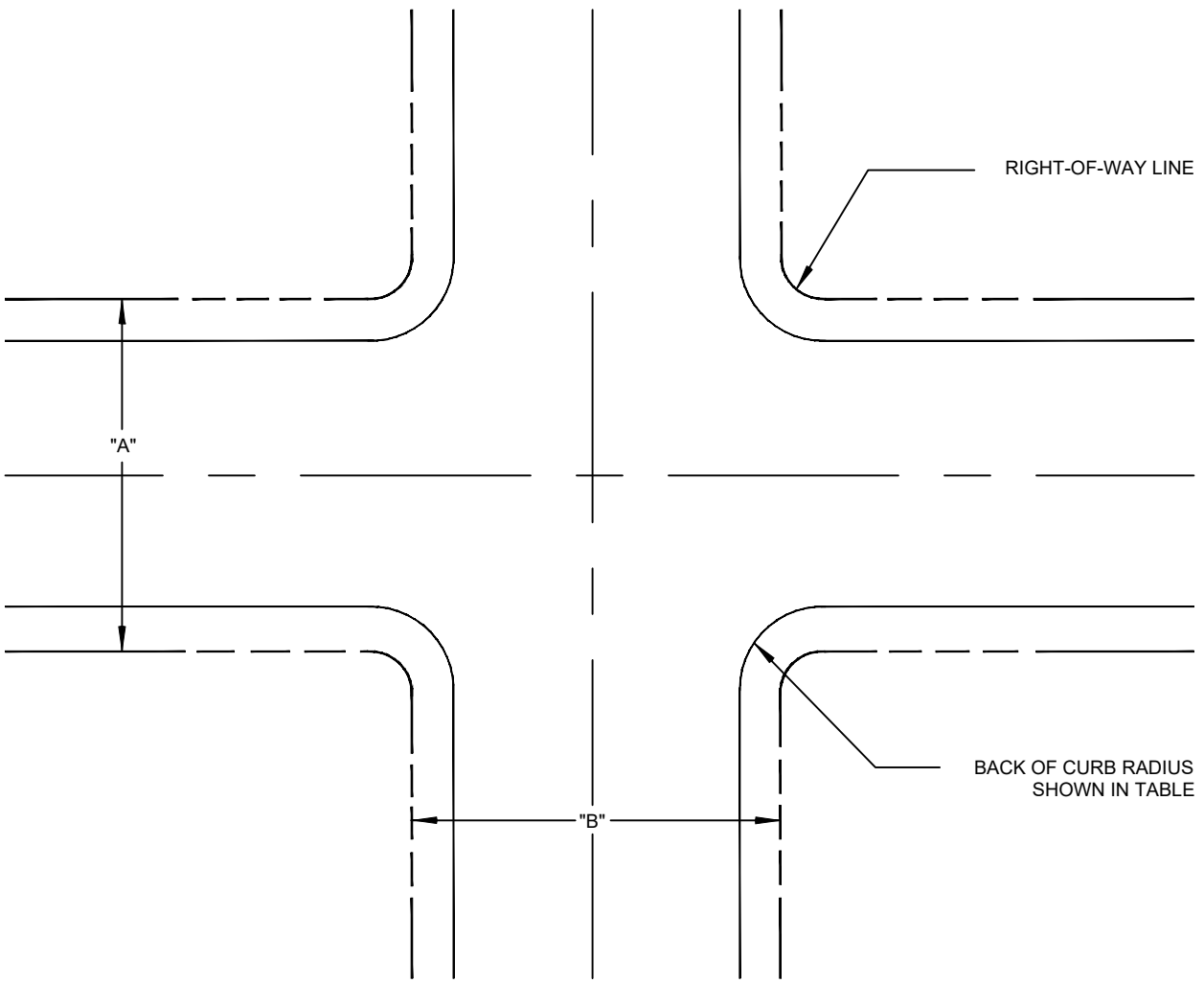
AGENCY APPROVED _____ L _____

SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA
SUPPLEMENTAL DRAWING
MINIMUM PROPERTY LINE AND
BACK OF CURB RADII
COMPLETE STREET ALTERNATIVE

DATE 07-01-12 | DWG. NO. 201.3.S1

Effective 10/08/2020 to 12/09/2020



NOTES

PROPERTY LINES SHALL BE PARALLEL AND RADIAL TO THE BACK OF CURB AT A DISTANCE CONSISTENT WITH THE STANDARD STREET SECTIONS DRAWING NUMBERS.

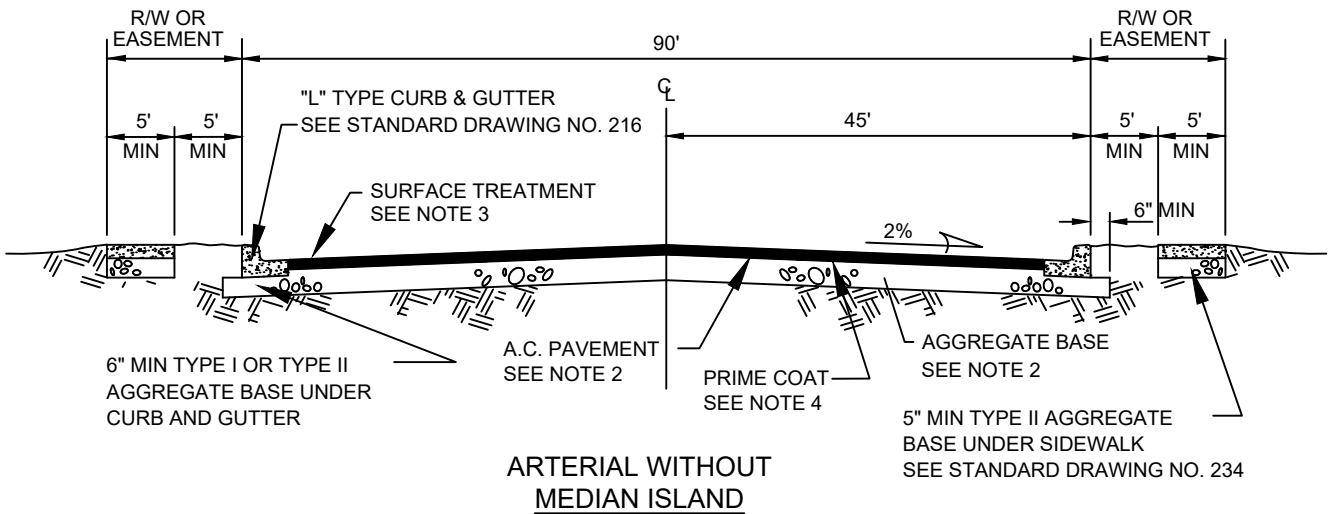
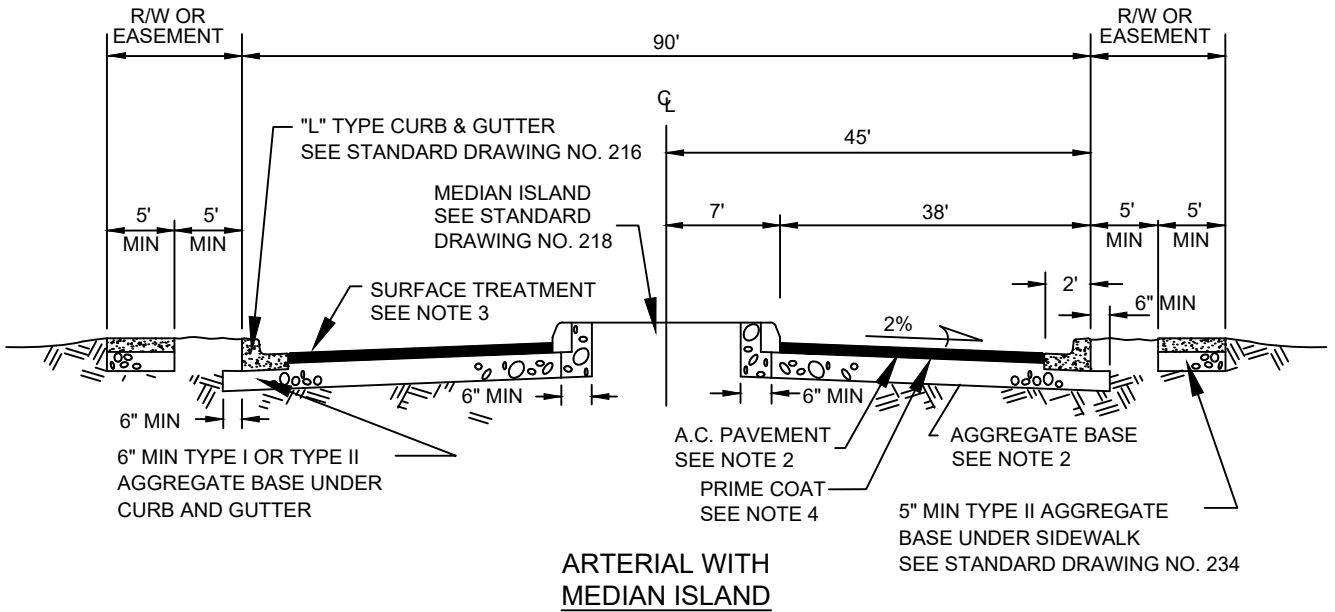
- PROPERTY LINE RADIUS SHALL BE A MINIMUM OF 54 FEET.
- PROPERTY LINE RADIUS SHALL BE A MINIMUM OF 40 FEET.

"B" "A"	00 OR LESS	80	100 OR MORE
00 OR LESS	20	25	30
80	25	30	30
100 OR MORE	30	30	30

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
MINIMUM BACK OF CURB RADIUS						
DATE 11-10-04	DWG. NO.	201				

SPECIFICATION REFERENCE	

Effective 10/08/2020 to 12/09/2020



NOTES

1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/2" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING 200.
3. THE FINAL A.C. PAVEMENT SURFACE MATERIAL REQUIREMENTS ARE:

JURISDICTION	A.C. PAVEMENT SURFACE MATERIAL
CLV, NLV	1-INCH UTACS
CC, MES, BC	FOG SEAL
HEN	FOG SEAL AND/OR OPEN GRADE



4. PRIME COAT IS NOT REQUIRED IN LAS VEGAS, HENDERSON, MESQUITE, AND BOULDER CITY WHEN A.C. THICKNESS IS ≥ 5 IN.

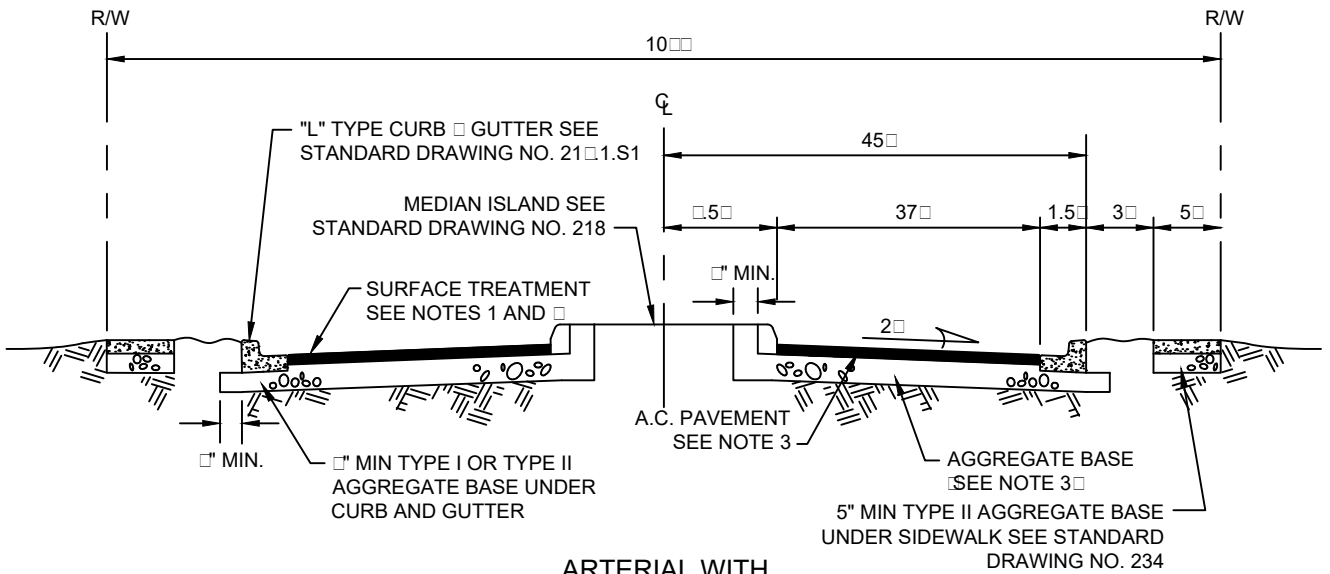
AGENCY APPROVED B C H L M N R

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
403	OPEN GRADE
413	BITUMINOUS GAP GRADED PAVEMENT
501	CONCRETE

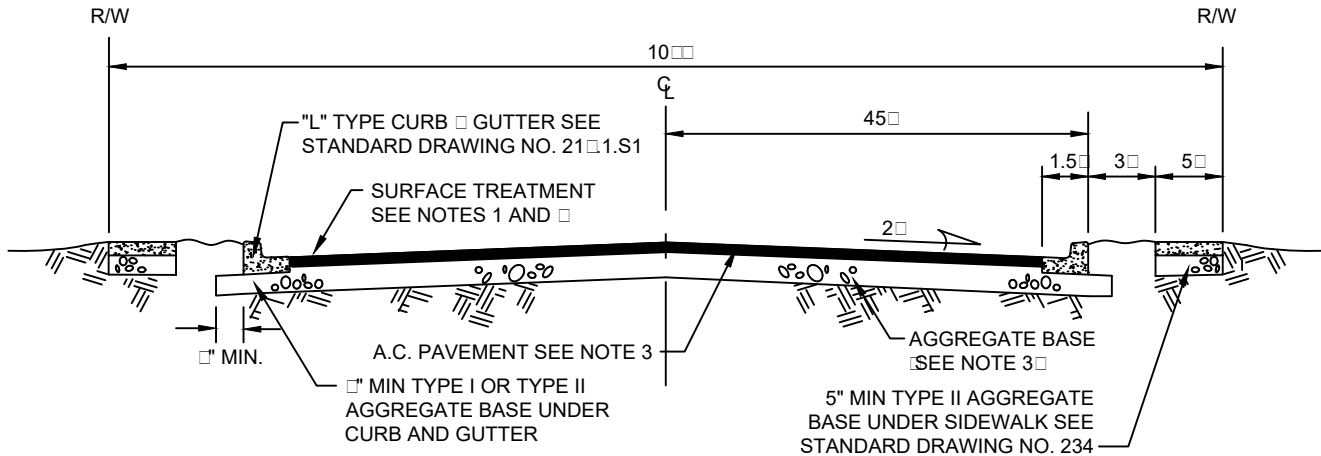
**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

**ARTERIAL
URBAN AREA STREET SECTIONS**

DATE 01-09-20 DWG. NO. 202



**ARTERIAL WITH
MEDIAN ISLAND**



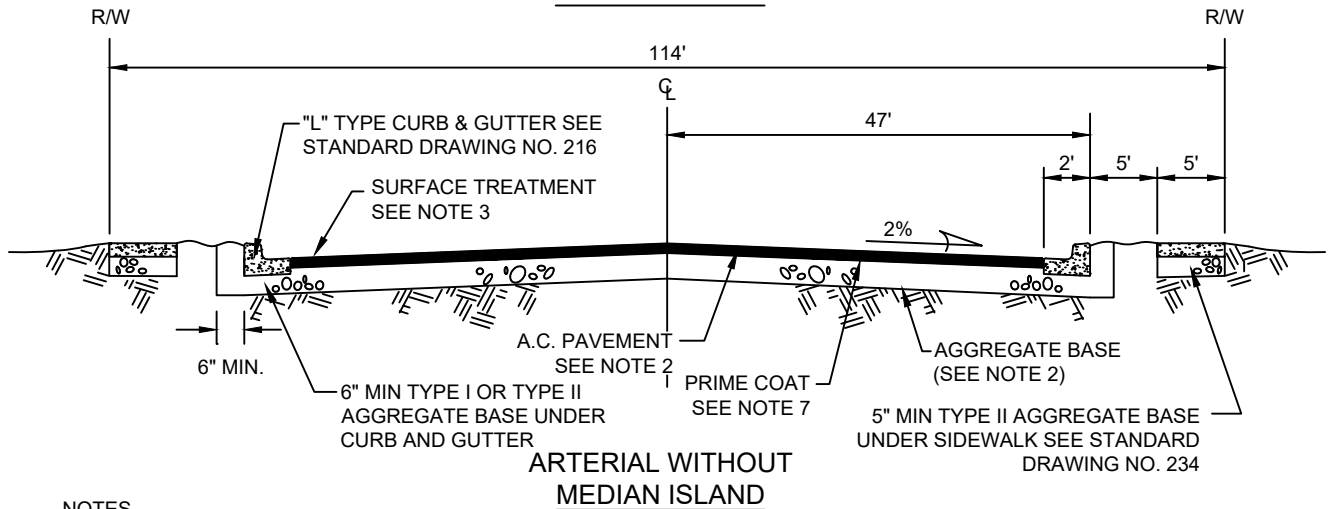
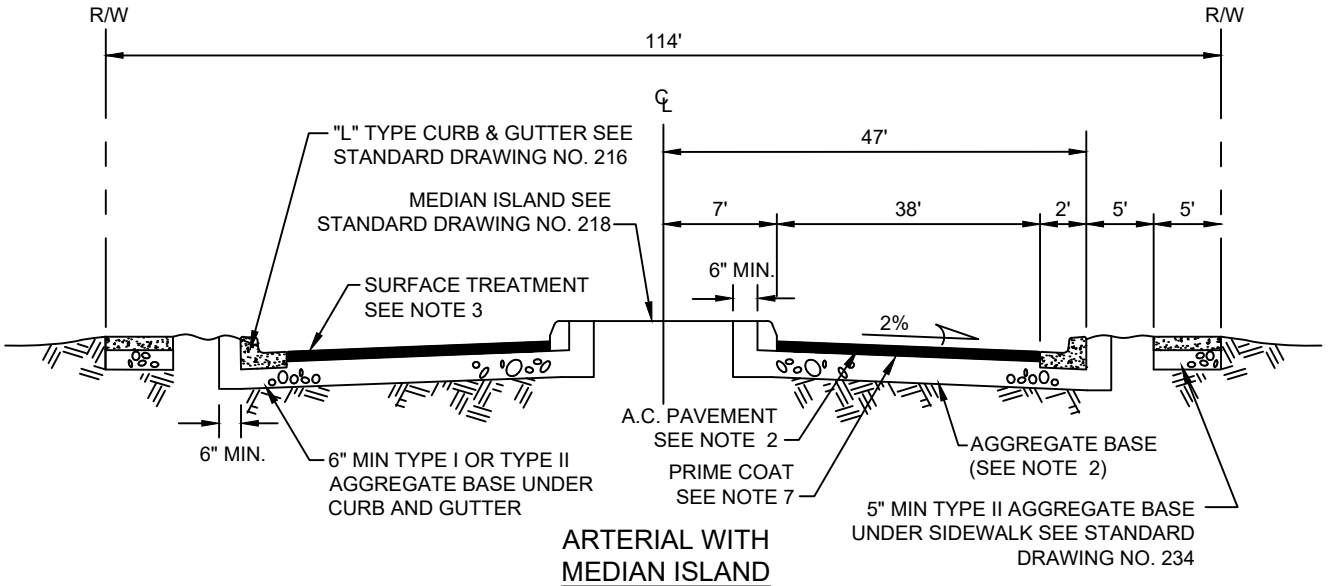
**ARTERIAL WITHOUT
MEDIAN ISLAND**

NOTES

1. FINAL A.C. PAVEMENT SURFACE INCLUDING UTACS OR OPEN GRADE SHALL BE 3/4" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES. DENSE GRADE SHALL BE FLUSH WITH LIP OF GUTTER.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NO. 200.
3. THIS STANDARD IS AN ALTERNATE STREET SECTION TO BE USED AT LOCATIONS DETERMINED BY EACH LOCAL JURISDICTION. NO ABOVE GROUND OBJECTS SHALL BE PLACED WITHIN THE 5 FOOT SIDEWALK.
4. UNDERGROUND DRY UTILITIES SHALL BE PLACED IN A UTILITY CORRIDOR UNDER THE SIDEWALK.
5. OVERLAY 1" UTACS UNLESS OTHERWISE REQUIRED BY THE AGENCY.

AGENCY APPROVED	B	C	H	L	M	N	R
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
SUPPLEMENTAL DRAWING							
PRIMARY ARTERIAL							
COMPLETE STREET ALTERNATIVE							
DATE 01-09-20	DWG. NO. 203.1.S1						

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
403	OPEN GRADE
501	CONCRETE



NOTES

1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/2" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NO. 200.
3. THE FINAL A.C. PAVEMENT SURFACE MATERIAL REQUIREMENTS ARE:

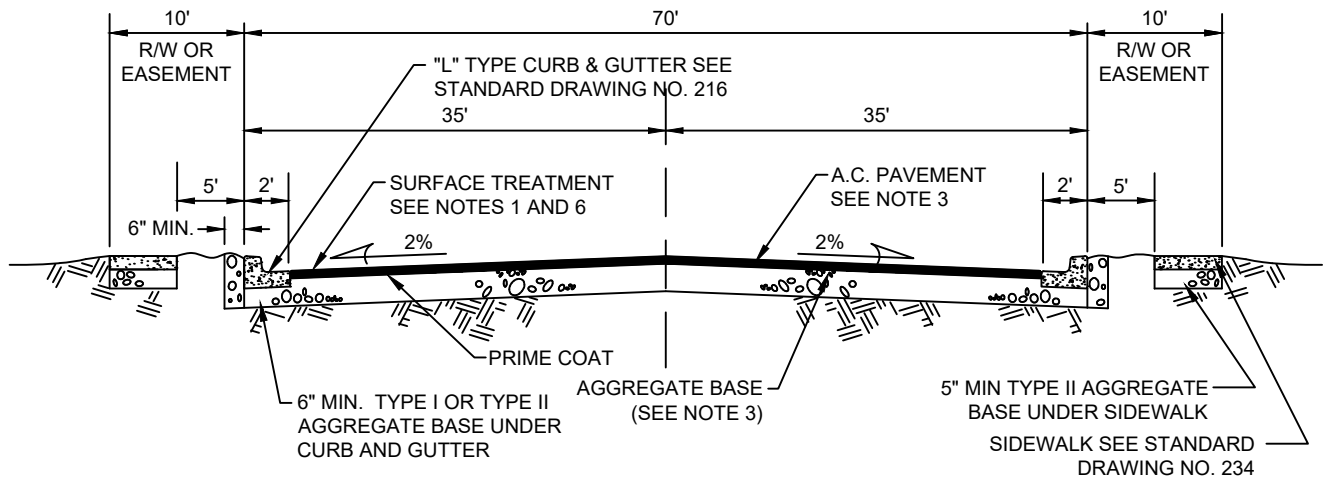
JURISDICTION	A.C. PAVEMENT SURFACE MATERIAL
CLV, NLV	1-INCH UTACS
CC, MES, BC	FOG SEAL
HEN	FOG SEAL AND/OR OPEN GRADE

4. THIS STANDARD IS AN ALTERNATE STREET SECTION TO BE USED AT LOCATIONS DETERMINED BY EACH LOCAL JURISDICTION. NO ABOVE GROUND OBJECTS SHALL BE PLACED WITHIN THE 5 FOOT SIDEWALK.
5. UNDERGROUND DRY UTILITIES SHOULD BE PLACED IN A UTILITY CORRIDOR UNDER THE SIDEWALK.
6. INCREASE PAVEMENT WIDTH BY 11 FEET ON EACH SIDE OF ROADWAY FOR AN 8 LANE CROSS SECTION. PRIME COAT IS NOT REQUIRED IN LAS VEGAS, HENDERSON, MESQUITE, AND BOULDER CITY WHEN A.C. THICKNESS IS ≥ 5 IN.



AGENCY APPROVED B C H L M N R

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
302	AGGREGATE BASE	ARTERIAL ALTERNATE URBAN AREA STREET SECTIONS WITH OFFSET SIDEWALK	
401	BITUMINOUS PAVEMENT		
403	OPEN GRADE		
413	BITUMINOUS GAP GRADED PAVEMENT		
501	CONCRETE		
		DATE 01-09-20	DWG. NO. 203



MAJOR COLLECTOR

NOTES

1. FINAL A.C. PAVEMENT TO BE 1/2" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. THE GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL FALL BETWEEN DRIVING LANES.
3. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NOS. 200 AND 200.1.
4. THIS STANDARD IS AN ALTERNATE STREET SECTION TO BE USED AT LOCATIONS DETERMINED BY EACH LOCAL JURISDICTION. NO ABOVE GROUND OBJECTS SHALL BE PLACED WITHIN THE 5 FOOT SIDEWALK.
5. UNDERGROUND DRY UTILITIES SHOULD BE PLACED IN A UTILITY CORRIDOR UNDER THE SIDEWALK.
6. THE FINAL A.C. PAVEMENT SURFACE MATERIAL REQUIREMENTS ARE:

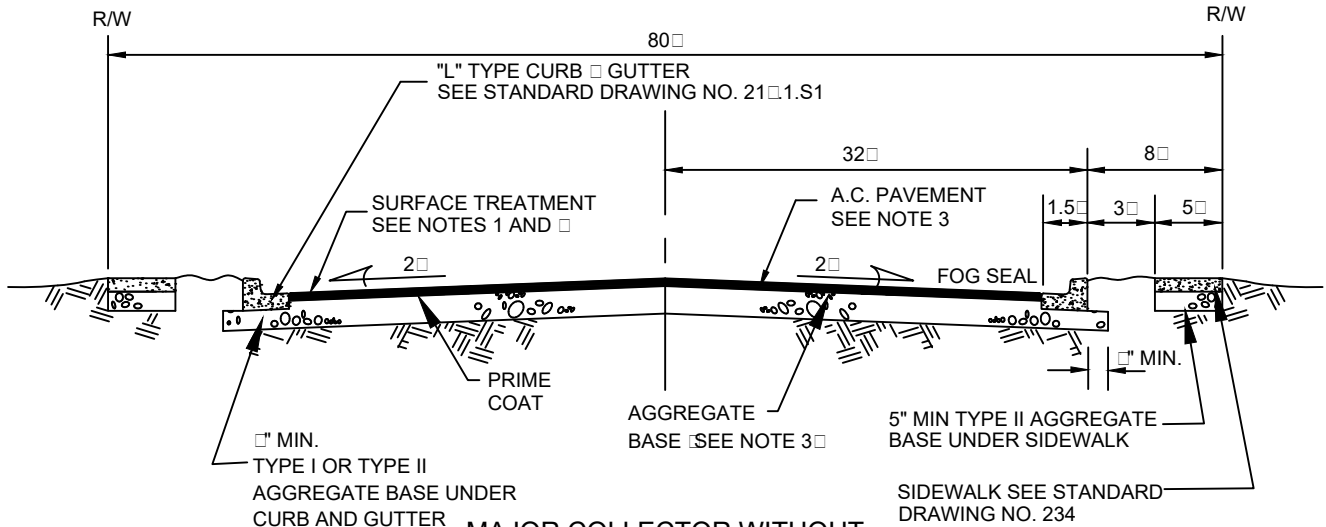
JURISDICTION	A.C. PAVEMENT SURFACE MATERIAL
CLV, NLV	1-INCH UTACS
CC, MES, BC	FOG SEAL
HEN	FOG SEAL AND/OR OPEN GRADE



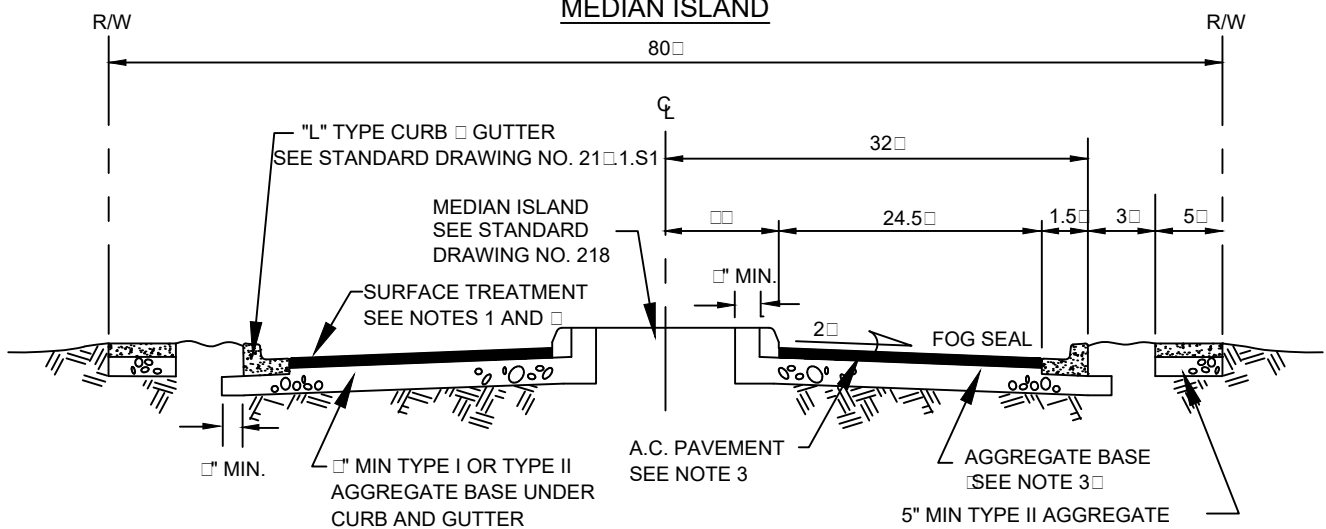
7. PRIME COAT IS NOT REQUIRED IN LAS VEGAS, HENDERSON, MESQUITE, OR BOULDER CITY WHEN A.C. THICKNESS \geq 5 IN.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						
		B	C	H	L	M	N	R
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SUPPLEMENTAL DRAWING						
		COLLECTOR						
		ALTERNATE URBAN AREA STREET SECTIONS WITH OFFSET SIDEWALK						
302	AGGREGATE BASE	DATE 01-09-20		DWG. NO. 205.1.S1				
401	BITUMINOUS PAVEMENT							
406	PRIME COAT							
407	FOG COAT							
413	BITUMINOUS GAP GRADED PAVEMENT							
501	CONCRETE							



**MAJOR COLLECTOR WITHOUT
MEDIAN ISLAND**



**MAJOR COLLECTOR WITH
MEDIAN ISLAND**

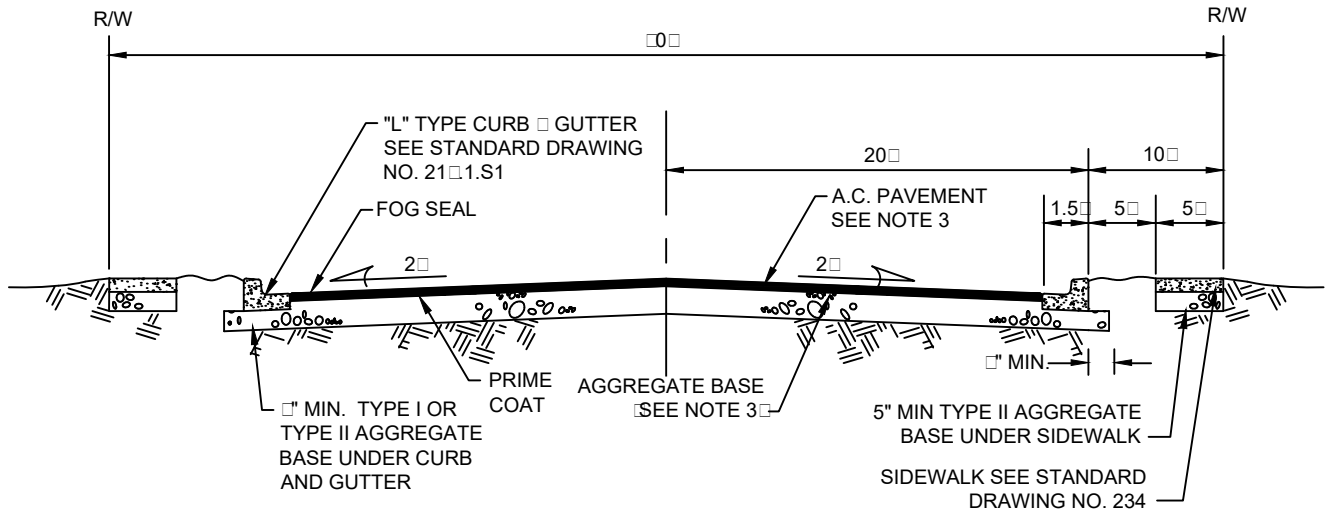
NOTES

1. FINAL A.C. PAVEMENT TO BE 1/2" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
 2. THE GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL FALL BETWEEN DRIVING LANES.
 3. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NOS. 200 AND 200.1.
 4. THIS STANDARD IS AN ALTERNATE STREET SECTION TO BE USED AT LOCATIONS DETERMINED BY EACH LOCAL JURISDICTION. NO ABOVE GROUND OBJECTS SHALL BE PLACED WITHIN THE 5 FOOT SIDEWALK.
 5. UNDERGROUND DRY UTILITIES SHOULD BE PLACED IN A UTILITY CORRIDOR UNDER THE SIDEWALK.
- OVERLAY 1" UTACS UNLESS OTHERWISE REQUIRED BY THE AGENCY.

AGENCY APPROVED					L		
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
SUPPLEMENTAL DRAWING							
MAJOR COLLECTOR							
COMPLETE STREET ALTERNATIVE							
DATE	01-09-20	DWG. NO.	205.2.S1				

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
40□	PRIME COAT
407	FOG SEAL
501	CONCRETE

Effective 10/08/2020 to 12/09/2020



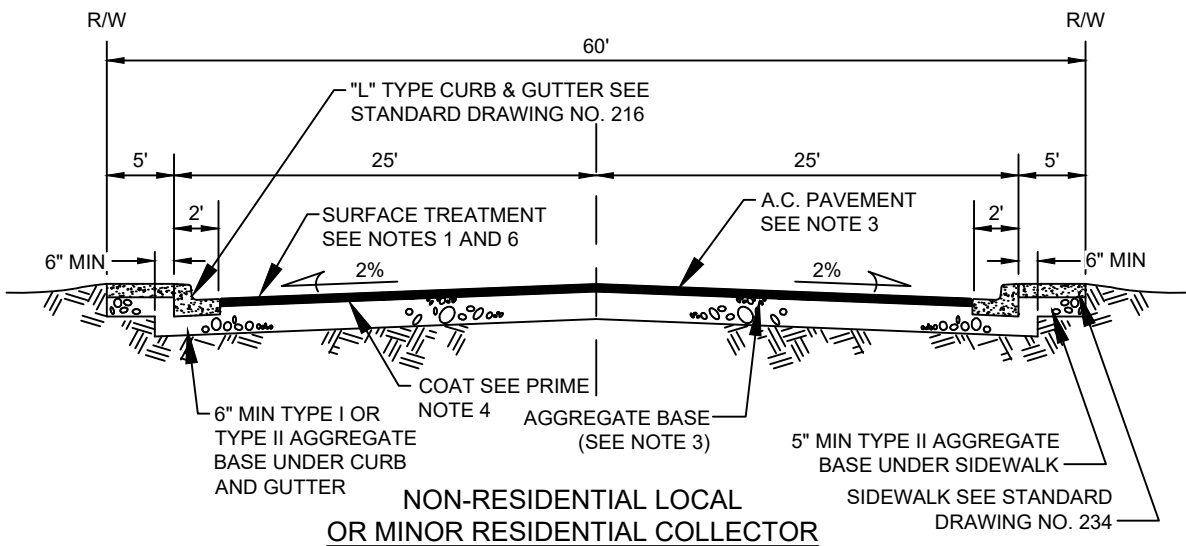
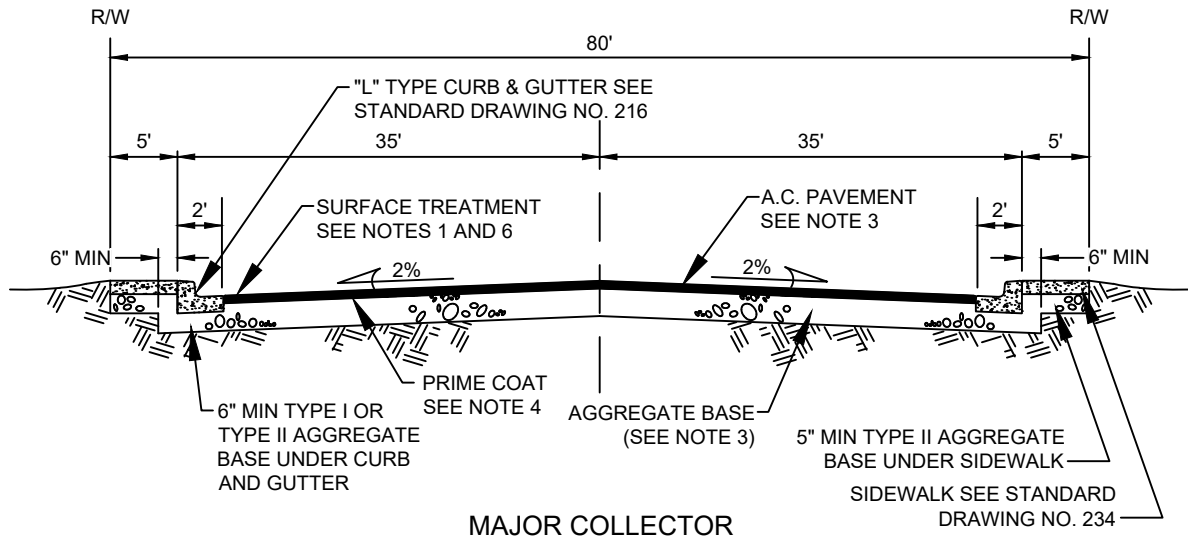
MINOR COLLECTOR

NOTES

1. FINAL A.C. PAVEMENT TO BE 1/2" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. THE GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL FALL BETWEEN DRIVING LANES.
3. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NOS. 200 AND 200.1.
4. THIS STANDARD IS A COMPLETE STREET ALTERNATE STREET SECTION TO BE USED AT LOCATIONS DETERMINED BY EACH LOCAL JURISDICTION. NO ABOVE GROUND OBJECTS SHALL BE PLACED WITHIN THE 5 FOOT SIDEWALK.
5. UNDERGROUND DRY UTILITIES SHALL BE PLACED IN A UTILITY CORRIDOR UNDER THE SIDEWALK.

AGENCY APPROVED					L		
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
SUPPLEMENTAL DRAWING							
MINOR COLLECTOR							
COMPLETE STREET ALTERNATIVE							
DATE	01-09-20	DWG. NO.	205.3.S1				

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
401	PRIME COAT
407	FOG SEAL
501	CONCRETE



NOTES

1. FINAL A.C. PAVEMENT TO BE 1/2" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. THE GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL FALL BETWEEN DRIVING LANES.
3. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NOS. 200 AND 200.1.
- B****H****L****M** 4. PRIME COAT IS NOT REQUIRED IN LAS VEGAS, HENDERSON, MESQUITE OR BOULDER CITY WHEN A.C. THICKNESS \geq 5 IN.
- B****H****M** 5. 4 INCH MINIMUM THICKNESS REQUIRED IN HENDERSON, MESQUITE AND BOULDER CITY.
6. THE FINAL A.C. PAVEMENT SURFACE MATERIAL REQUIREMENTS ARE:

JURISDICTION	A.C. PAVEMENT SURFACE MATERIAL
CLV, NLV	1-INCH UTACS (80-FT OR GREATER)
CC, MES, BC	FOG SEAL
HEN	FOG SEAL AND/OR OPEN GRADE

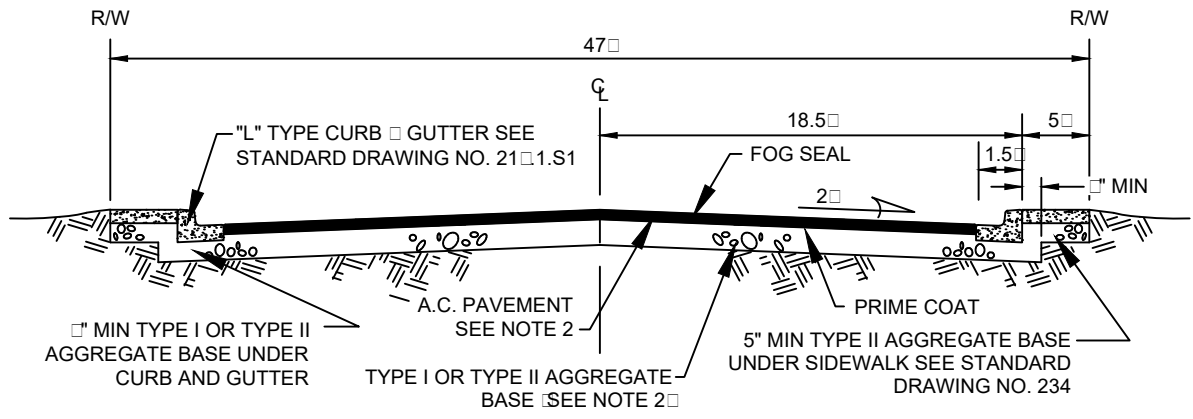
AGENCY APPROVED **B** **C** **H** **L** **M** **N** **R**

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
406	PRIME COAT
407	FOG COAT
413	BITUMINOUS GAP GRADED PAVEMENT
501	CONCRETE

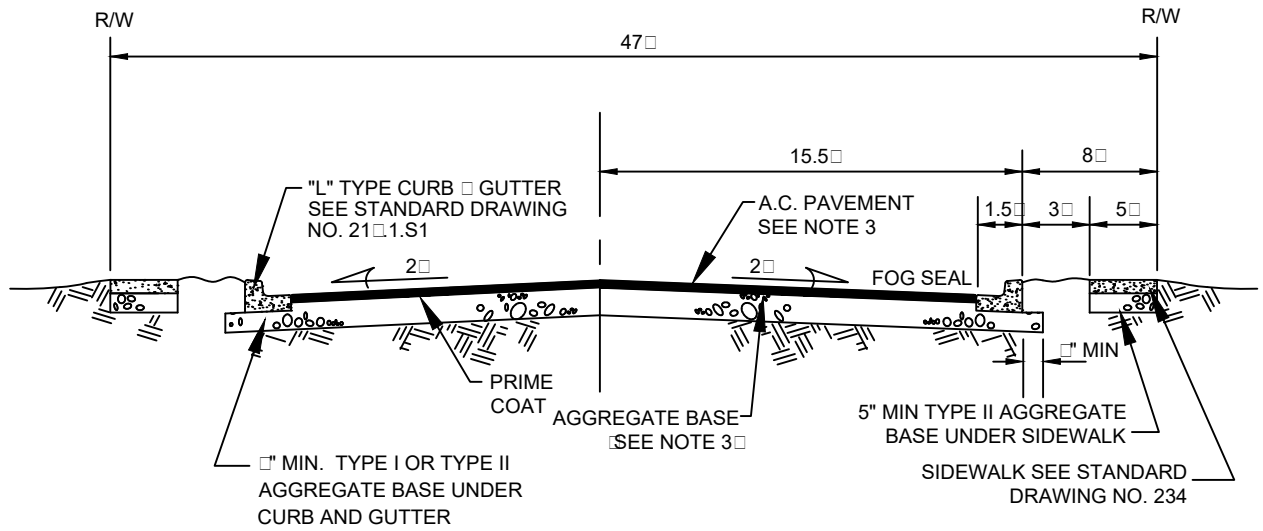
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

COLLECTOR
URBAN AREA STREET SECTIONS
WITH CURBSIDE SIDEWALK

DATE 01-09-20 | DWG. NO. 205



RESIDENTIAL TWO-WAY LOCAL OR CUL-DE-SAC
LOTS 40' WIDE OR LESS



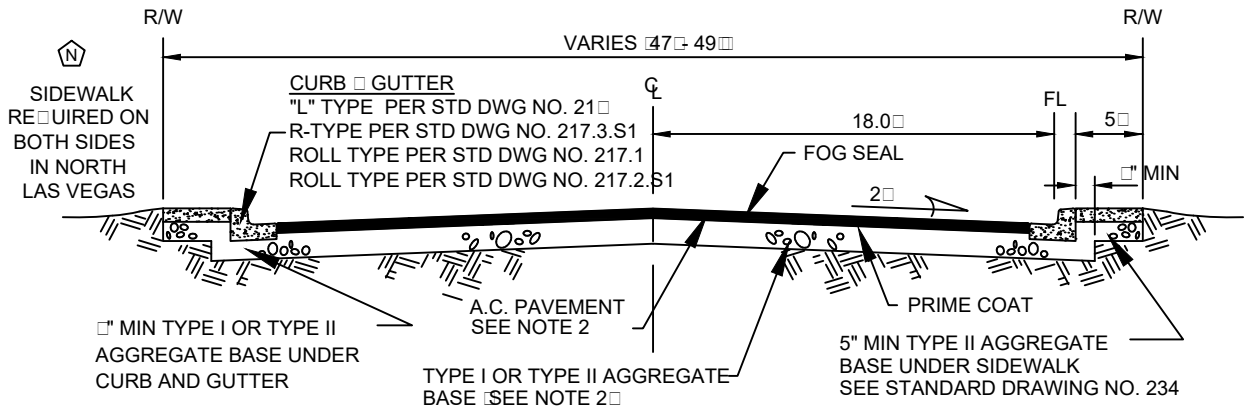
RESIDENTIAL TWO-WAY LOCAL OR CUL-DE-SAC
LOTS GREATER THAN 40' WIDE - SEE NOTE 3

NOTES

1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/4" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NO. 200.1.
3. HOMES ADJACENT TO THIS STREET SECTION MAY REQUIRE SPRINKLERS PER AGENCY FIRE CODE.

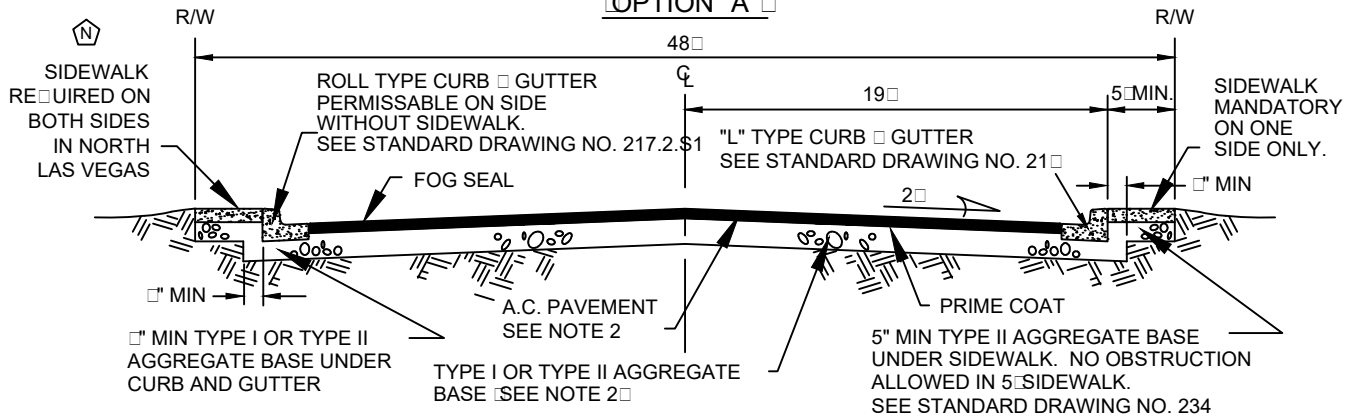
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED				L			
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
302	AGGREGATE BASE	SUPPLEMENTAL DRAWING							
401	BITUMINOUS PAVEMENT	LOCAL RESIDENTIAL							
40'	PRIME COAT	COMPLETE STREET ALTERNATIVES							
407	FOG SEAL	DATE 01-09-20		DWG. NO. 20'1.S1					
501	CONCRETE								



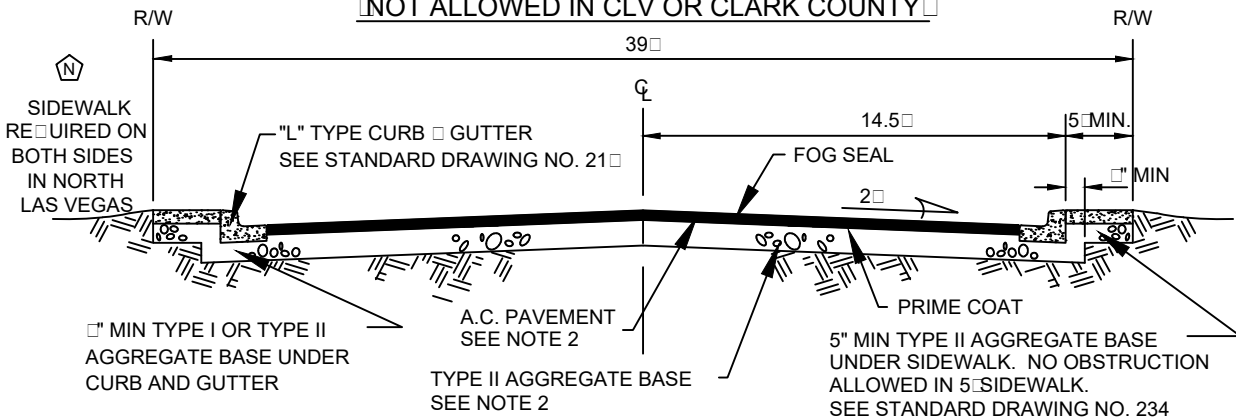
RESIDENTIAL TWO-WAY LOCAL OR CUL-DE-SAC

OPTION "A"



RESIDENTIAL TWO-WAY LOCAL, CUL-DE-SAC OPTION "B"

NOT ALLOWED IN CLV OR CLARK COUNTY



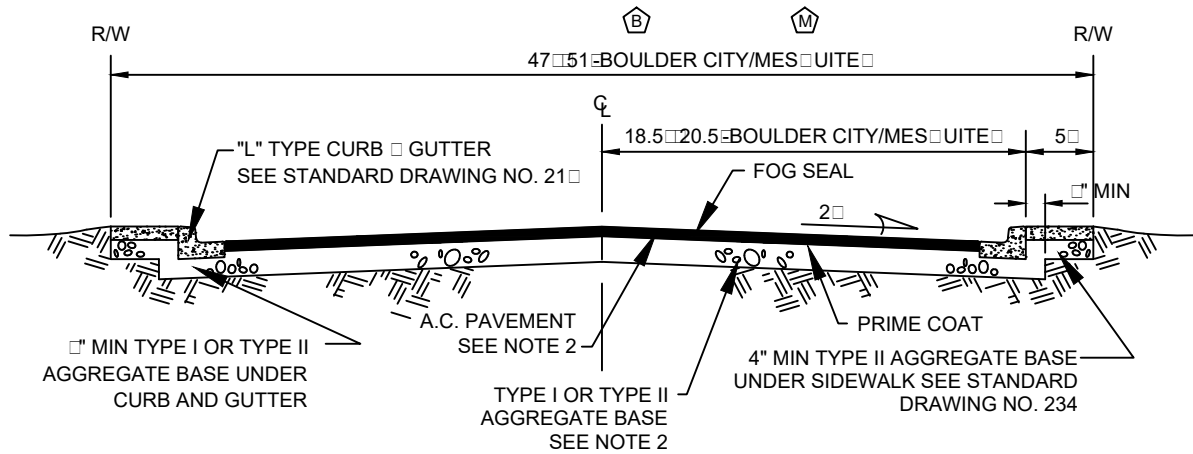
RESIDENTIAL ONE-WAY NOT ALLOWED IN CLV OR CLARK COUNTY

NOTES

1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/4" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NO. 200.1.
3. RESIDENTIAL ONE-WAY STREET SHALL NOT EXCEED ONE THOUSAND FEET OR TWENTY RESIDENTIAL LOTS IN LENGTH, WHICHEVER IS LESS.

AGENCY APPROVED	C	L	N
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SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
302	AGGREGATE BASE	SUPPLEMENTAL DRAWING LOCAL RESIDENTIAL URBAN AREA STREET SECTIONS	
401	BITUMINOUS PAVEMENT		
40	PRIME COAT		
407	FOG SEAL		
501	CONCRETE		
DATE 01-09-20		DWG. NO. 20.S1	

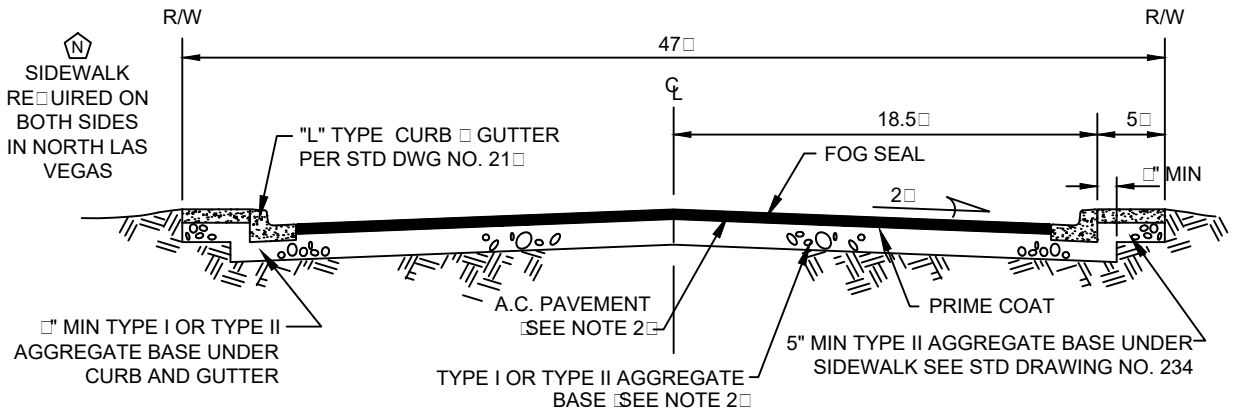


NOTES

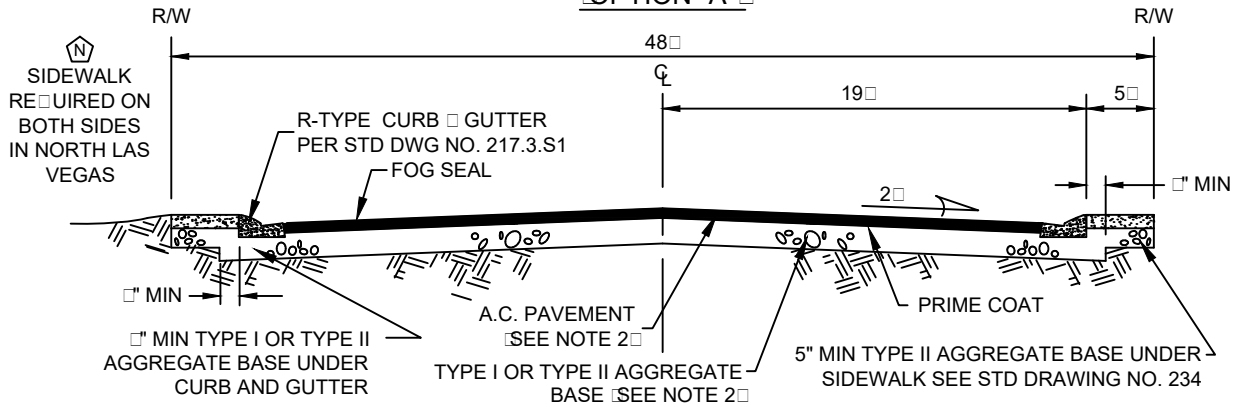
1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/4" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" REGARDLESS OF CONSTRUCTION TOLERANCES.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STANDARD DRAWING NO. 200.1.

Effective 10/08/2020 to 12/09/2020

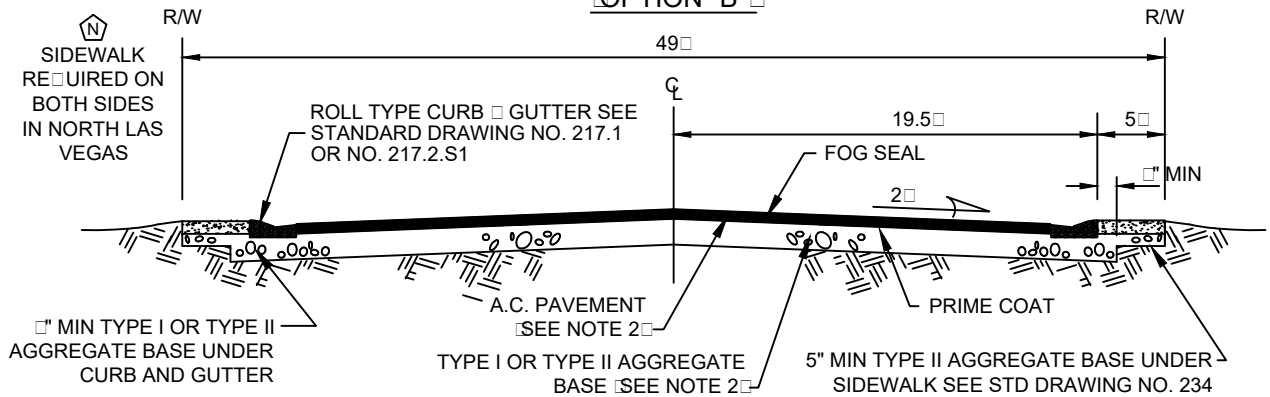
		AGENCY APPROVED	B	H	M		
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
302	AGGREGATE BASE	SUPPLEMENTAL DRAWING					
401	BITUMINOUS PAVEMENT						
40	PRIME COAT	LOCAL RESIDENTIAL URBAN AREA STREET SECTION					
407	FOG COAT						
501	CONCRETE						
		DATE 01-09-20	DWG. NO. 20-S2				



RESIDENTIAL TWO-WAY LOCAL OR CUL-DE-SAC
OPTION "A"



RESIDENTIAL TWO-WAY LOCAL, CUL-DE-SAC
OPTION "B"



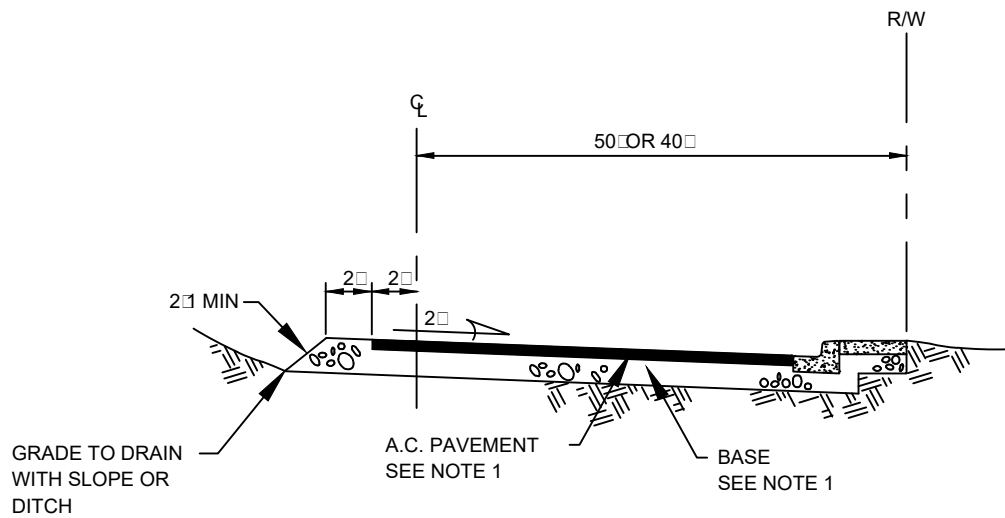
RESIDENTIAL TWO-WAY LOCAL, CUL-DE-SAC
OPTION "C"

NOTES

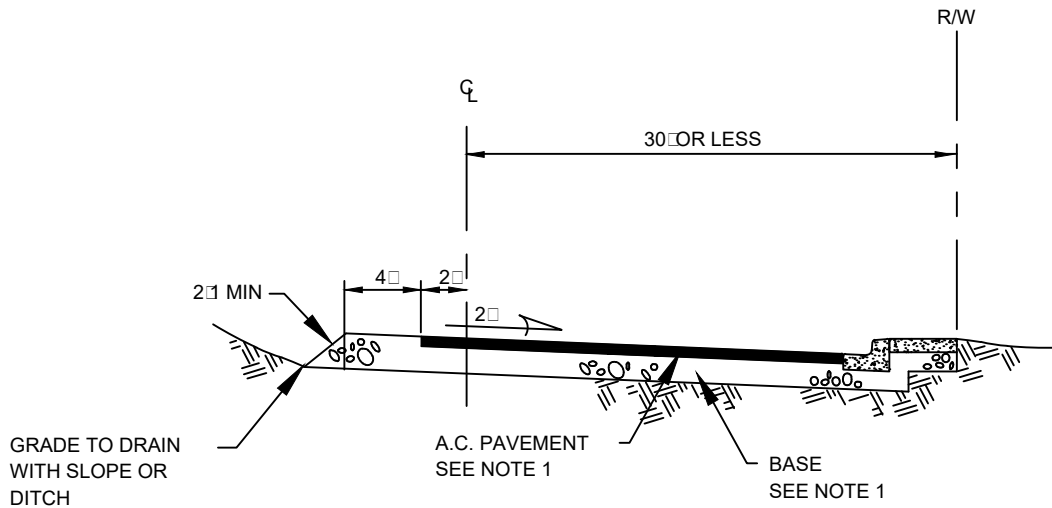
1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/4" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" REGARDLESS OF CONSTRUCTION TOLERANCES.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STD. DWG. NO. 200.1.
3. RESIDENTIAL ONE-WAY STREET SHALL NOT EXCEED ONE THOUSAND FEET OR TWENTY RESIDENTIAL LOTS IN LENGTH, WHICHEVER IS LESS.

AGENCY APPROVED	C	L	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
SUPPLEMENTAL DRAWING			
LOCAL RESIDENTIAL URBAN AREA STREET SECTION			
DATE 01-09-20	DWG. NO. 200.S3		

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
400	PRIME COAT
407	FOG COAT
501	CONCRETE



ARTERIAL OR MAJOR COLLECTOR



COMMERCIAL/INDUSTRIAL LOCAL
OR MINOR RESIDENTIAL COLLECTOR
OR LOCAL RESIDENTIAL

NOTES

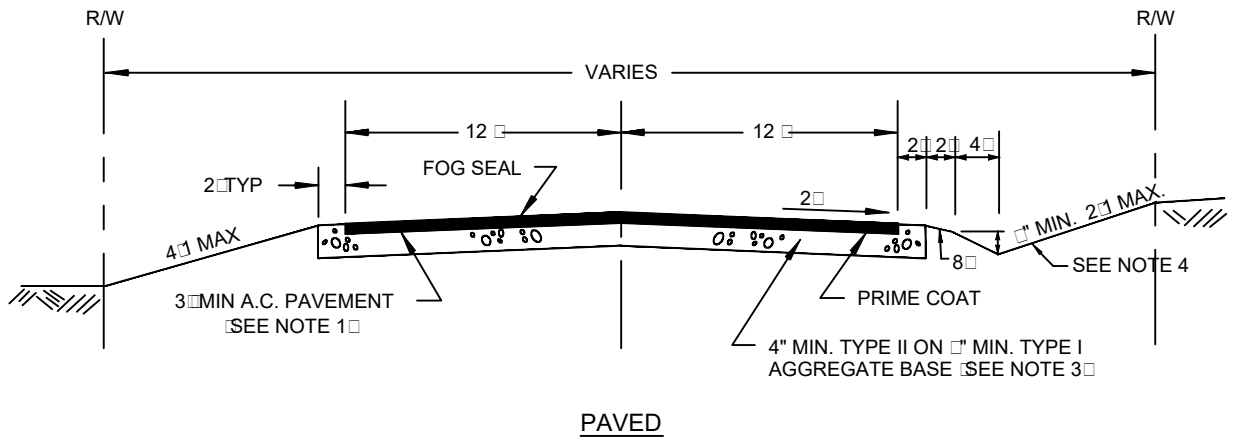
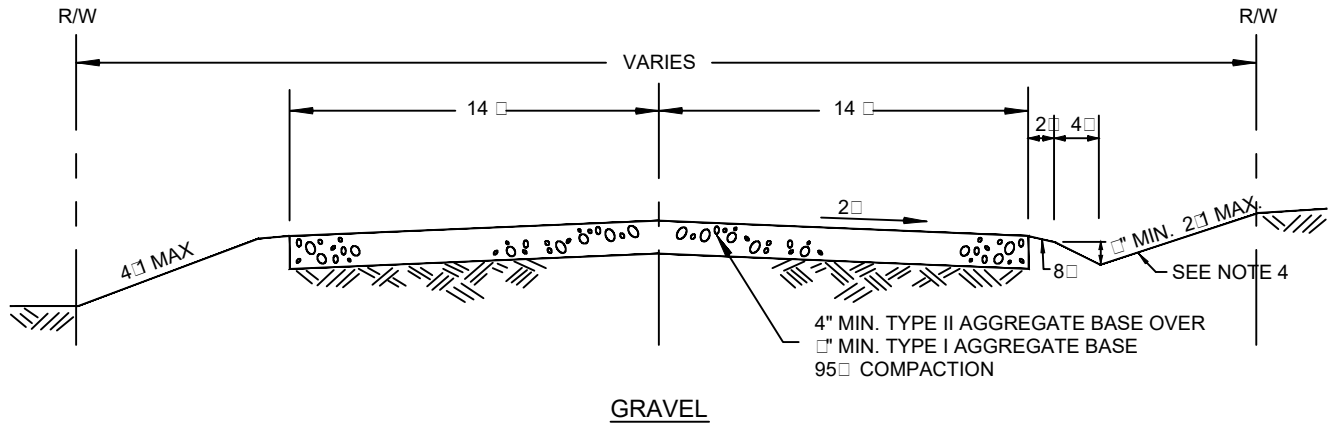
1. A.C. PAVEMENT AND BASE THICKNESS SHALL BE IN ACCORDANCE TO STANDARD DRAWINGS NUMBER 202 THROUGH 202S2, WHICHEVER IS APPLICABLE.
2. GREATER WIDTHS MAY BE REQUIRED IF TRAFFIC WARRANTS, AS DETERMINED BY THE ENGINEER.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
402	PRIME COAT
407	FOG SEAL
501	CONCRETE

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
HALF STREET CONSTRUCTION SECTIONS	

DATE	DWG. NO. 208
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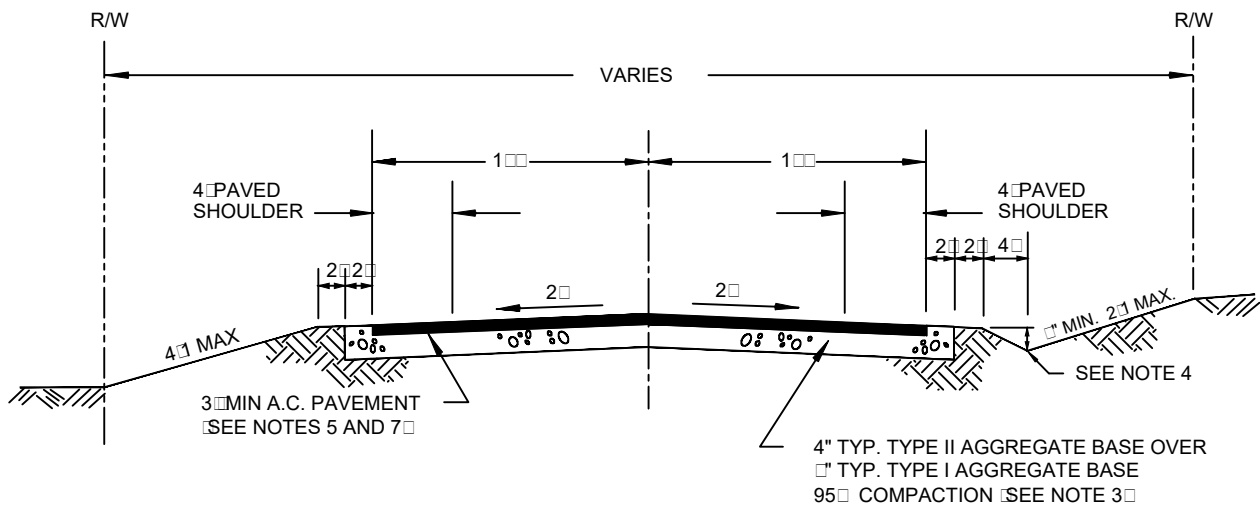


NOTES

1. INTERSECTIONS SHALL HAVE 25 FOOT MINIMUM EDGE OF OIL RADII.
2. COMPACTION OF AGGREGATE BASE AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS".
3. STRUCTURAL SECTION SHOWN IS BASED ON A SUBGRADE "R" VALUE OF 20. OTHER STRUCTURAL SECTIONS MAY BE APPROVED IF BASED ON ENGINEERING ANALYSIS BASED ON "R" OR "CBR" VALUES DETERMINED BY SOIL TESTING. IN NO CASE SHALL THE A.C. THICKNESS BE LESS THAN THAT SHOWN, NOR SHALL THE BASE BE LESS THAN 4".
4. CULVERTS MAY BE REQUIRED AT DRIVEWAYS.

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
ACCESS ROADS FOR USE IN PM-10 COMPLIANT AREAS							
DATE 12-14-00		DWG. NO. 209.1					

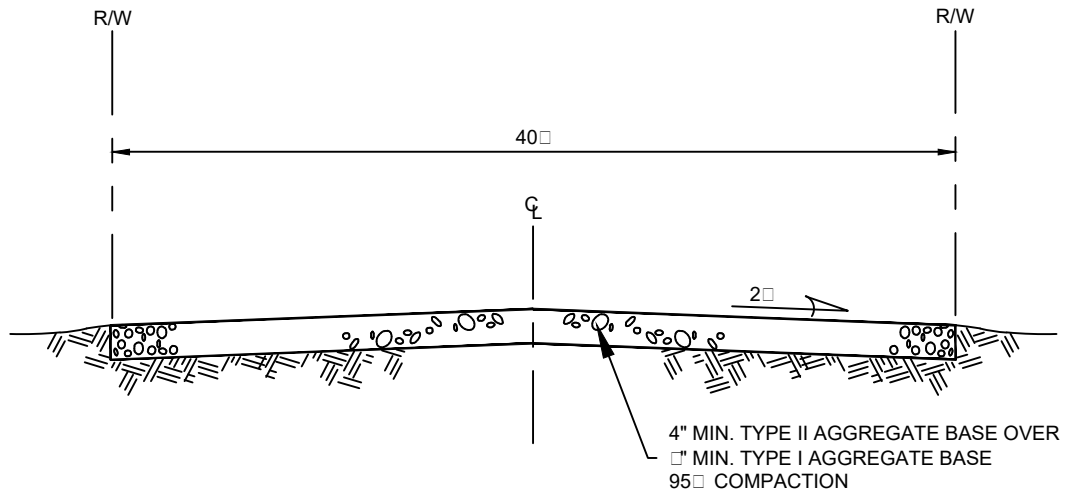
SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
40	PRIME COAT
407	FOG SEAL



NOTES

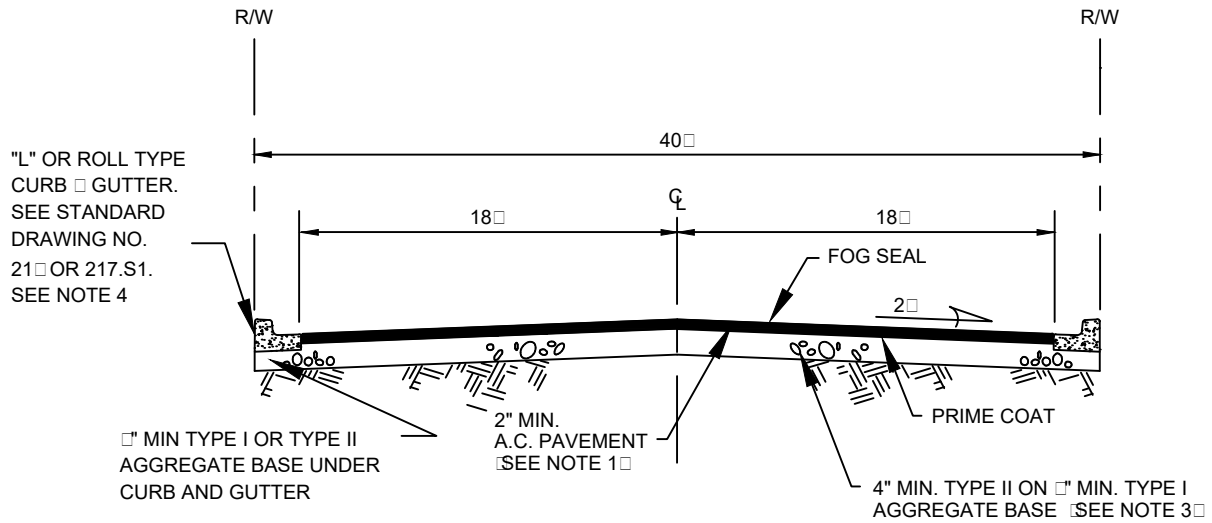
1. INTERSECTIONS SHALL HAVE 34 FOOT MINIMUM EDGE OF A.C. RETURN RADII.
2. COMPACTION OF AGGREGATE BASE AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE UNIFORM STANDARD SPECIFICATIONS.
3. STRUCTURAL SECTION SHOWN IS BASED ON A SUBGRADE "R" VALUE OF 20. OTHER STRUCTURAL SECTIONS MAY BE APPROVED IF BASED ON ENGINEERING ANALYSIS BASED ON "R" OR "CBR" VALUES DETERMINED BY SOIL TESTING.
4. CULVERTS MAY BE REQUIRED AT DRIVEWAYS.
5. A.C. PAVEMENT SHALL BE IN ACCORDANCE WITH SECTION 401 OF THE UNIFORM STANDARD SPECIFICATIONS. ALTERNATE PAVING MATERIALS MAY BE USED AT THE DISCRETION OF THE ENTITY.
6. PAVEMENT MARKINGS MAY BE REQUIRED AND INCLUDE DOUBLE YELLOW CENTERLINE, RAISED PAVEMENT MARKERS OR YELLOW PAINT, AND 4" OFFSET WHITE PAINTED EDGELINES.
7. PAVEMENT WIDTH AND PAVEMENT THICKNESS MAY BE REDUCED TO 28 FEET (14 FEET EACH DIRECTION) AND 2 INCHES RESPECTIVELY BASED UPON A DETERMINATION BY THE LOCAL ENTITY THAT THE REDUCED WIDTH AND THICKNESS WILL PROVIDE SATISFACTORY LIFE AND A SAFE ROADWAY.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE	ACCESS ROADS FOR USE IN HYDROGRAPHIC BASIN NO. 212 PM-10 NON-ATTAINMENT AREAS						
401	BITUMINOUS PAVEMENT							
DATE	5-20-04	DWG. NO.	209					



GRAVEL

[THIS SECTION NOT FOR USE IN PM-10 NON-ATTAINMENT AREAS]



PAVED

"L" OR ROLL TYPE CURB & GUTTER. SEE STANDARD DRAWING NO. 21 OR 217.S1. SEE NOTE 4

4" MIN TYPE I OR TYPE II AGGREGATE BASE UNDER CURB AND GUTTER

2" MIN. A.C. PAVEMENT [SEE NOTE 1]

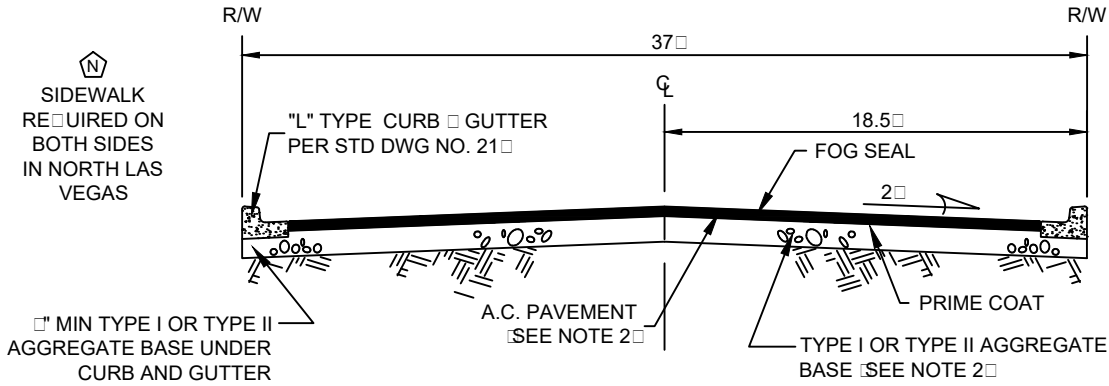
4" MIN. TYPE II ON 4" MIN. TYPE I AGGREGATE BASE [SEE NOTE 3]

NOTES

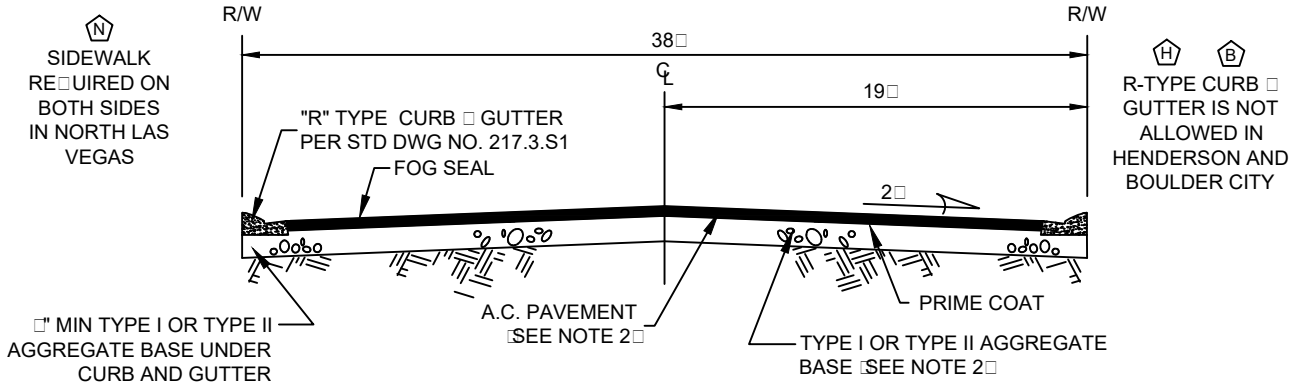
1. INTERSECTIONS SHALL HAVE 25 FOOT MINIMUM EDGE OF OIL RADII OR 20 FOOT MINIMUM BACK OF CURB RADII.
2. COMPACTION OF AGGREGATE BASE AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION".
3. STRUCTURAL SECTION SHOWN IS BASED ON A SUBGRADE "R" VALUE OF 20. OTHER STRUCTURAL SECTIONS MAY BE APPROVED IF BASED ON ENGINEERING ANALYSIS BASED ON "R" OR "CBR" VALUES DETERMINED BY SOIL TESTING. IN NO CASE SHALL THE A.C. THICKNESS BE LESS THAN THAT SHOWN, NOR SHALL THE BASE BE LESS THAN 4" EXCEPT THAT THE BASE SHALL NOT BE LESS THAN 10" IN NORTH LAS VEGAS.
4. ALLOW IN CITY OF NORTH LAS VEGAS ONLY WITH EXPRESS WRITTEN PERMISSION FROM THE CITY ENGINEER.

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
PRIVATE STREET SECTIONS							
DATE	12-14-00	DWG. NO.	210				

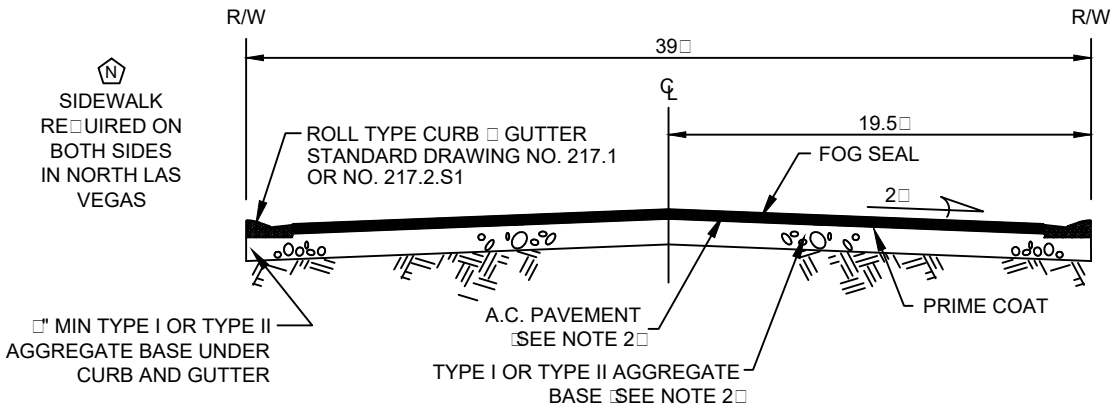
SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
40	PRIME COAT
407	FOG SEAL
501	CONCRETE



OPTION "A" - PAVED



OPTION "B" - PAVED



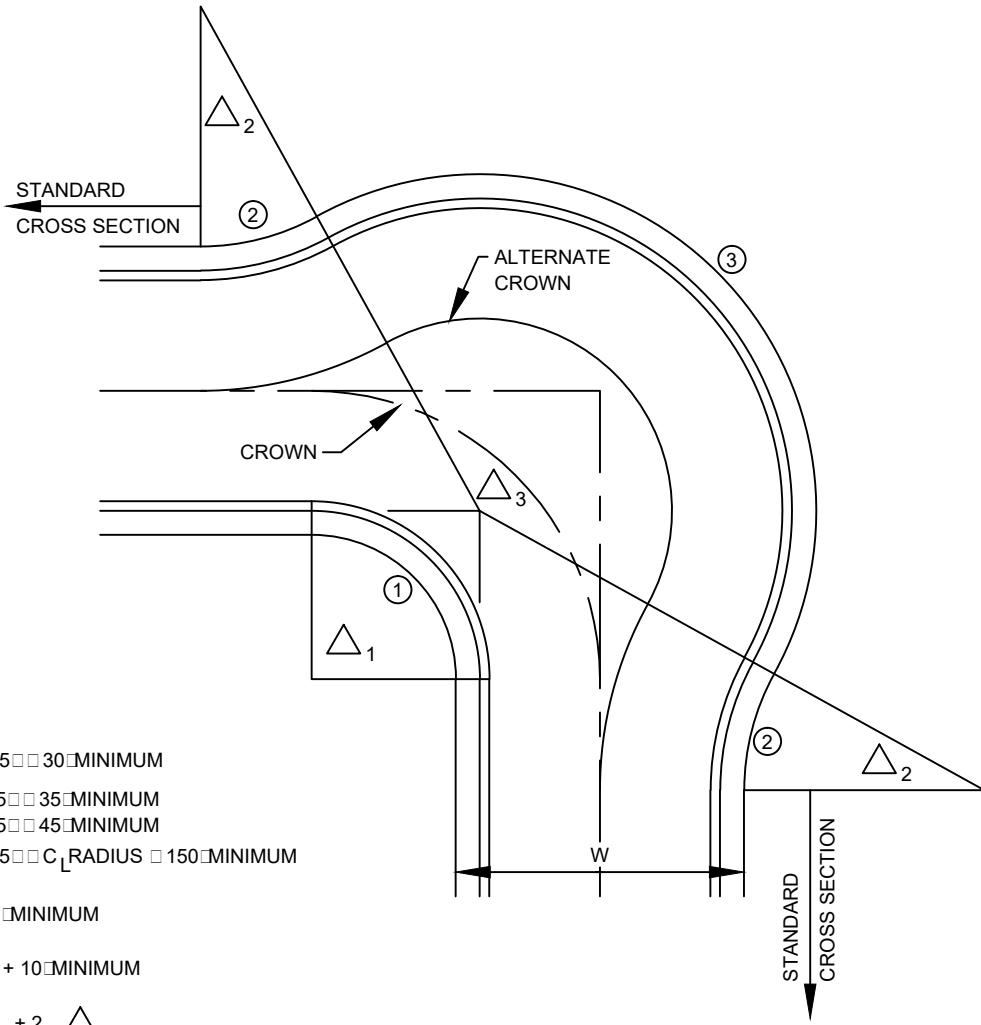
OPTION "C" - PAVED

NOTES

1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/4" MAXIMUM ABOVE LIP OF GUTTER AFTER COMPACTION, EXCEPT WHERE THERE IS OVERLAP WITH PEDESTRIAN ACCESS ROUTES. CONNECTIONS BETWEEN PAVEMENT SURFACES, GUTTERS, AND CURB RAMPS WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES NO GREATER THAN 1/4", REGARDLESS OF CONSTRUCTION TOLERANCES.
2. STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 401 AND STD. DWG. NO. 200.1.
3. RESIDENTIAL ONE-WAY STREET SHALL NOT EXCEED ONE THOUSAND FEET OR TWENTY RESIDENTIAL LOTS IN LENGTH, WHICHEVER IS LESS.

AGENCY APPROVED		C		L	M		R
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
SUPPLEMENTAL DRAWING							
PRIVATE STREET SECTIONS							
DATE 01-09-20	DWG. NO. 210.S1						

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
40	PRIME COAT
407	FOG COAT
501	CONCRETE



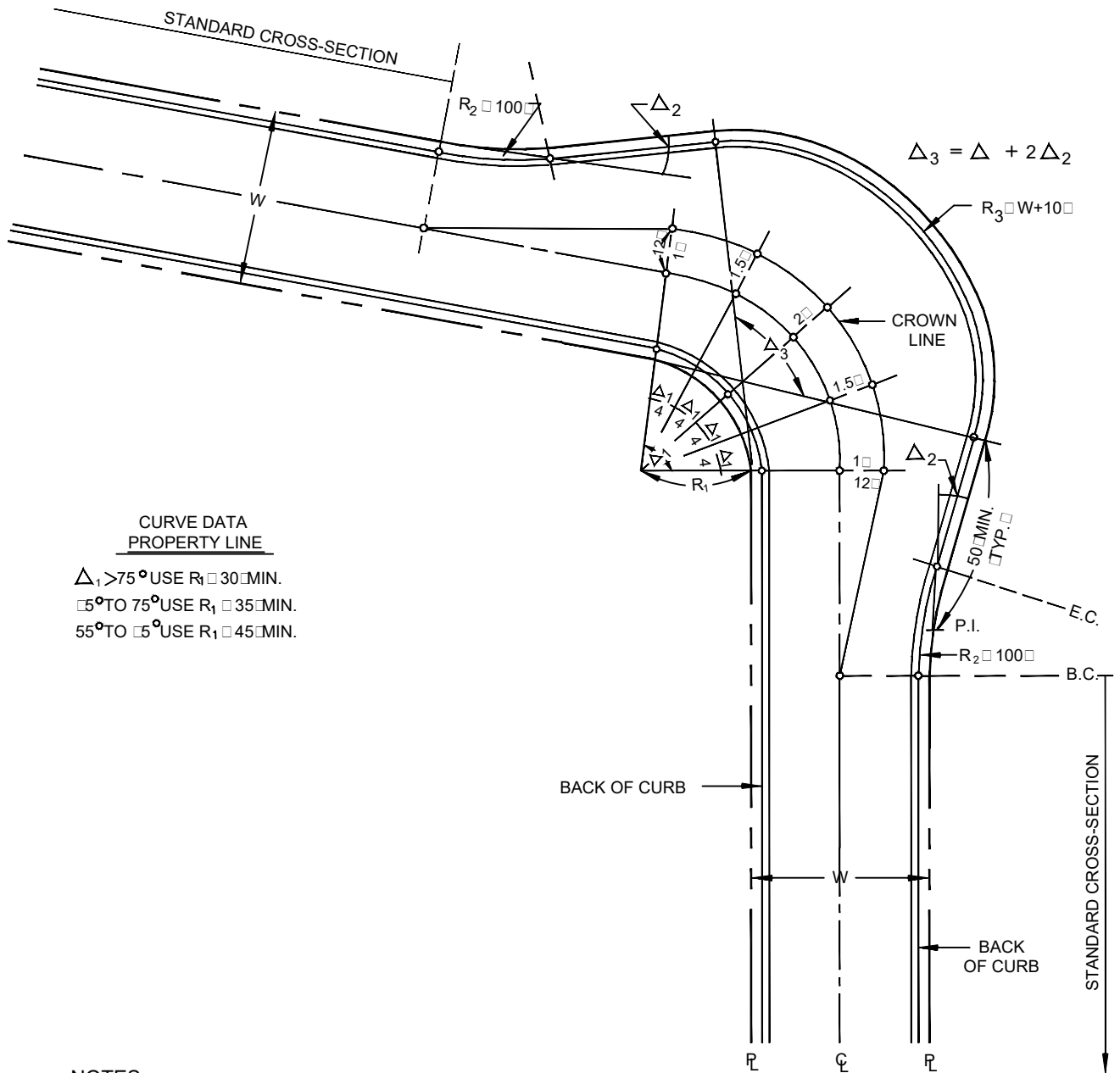
- ① BCR
 - \triangle_1 \square 75 \square 30 \square MINIMUM
 - \square 5 \square TO 75 \square 35 \square MINIMUM
 - 45 \square TO \square 5 \square 45 \square MINIMUM
 - \triangle_1 \square 45 \square C_L RADIUS \square 150 \square MINIMUM
- ② BCR \square 50 \square MINIMUM
- ③ BCR \square W + 10 \square MINIMUM
- \triangle_3 \square \triangle_1 + 2 \triangle_2

NOTES

1. USE 2 \square SLOPE FROM INNER CURB TO CROWN LINE.
 2. FROM CROWN LINE TO OUTER CURB, THE STANDARD SLOPE IS 0.90 \square MIN \square
 3. ELEVATIONS REQUIRED ALONG CURBS ② AND CROWN EVERY 1/4 MIN \square
 4. KNUCKLES ARE ALLOWED ON RESIDENTIAL STREETS ONLY.
 5. MINIMUM SLOPE ALONG THE BACK OF CURB OF CURVES ② AND ③ SHALL BE 0.00 \square MIN \square
- SPECIAL KNUCKLE DESIGNS INCLUDING LANDSCAPED MEDIAN ISLAND MAY BE PERMITTED, IF APPROVED BY THE COUNTY ENGINEER.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED		C			
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
	SUPPLEMENTAL DRAWING					
	KNUCKLE - TYPE I					
	DATE 8-12-99	DWG. NO.	211.1.S1			



CURVE DATA
PROPERTY LINE

$\Delta_1 > 75^\circ$ USE $R_1 \square 30 \square$ MIN.
 5° TO 75° USE $R_1 \square 35 \square$ MIN.
 55° TO 5° USE $R_1 \square 45 \square$ MIN.

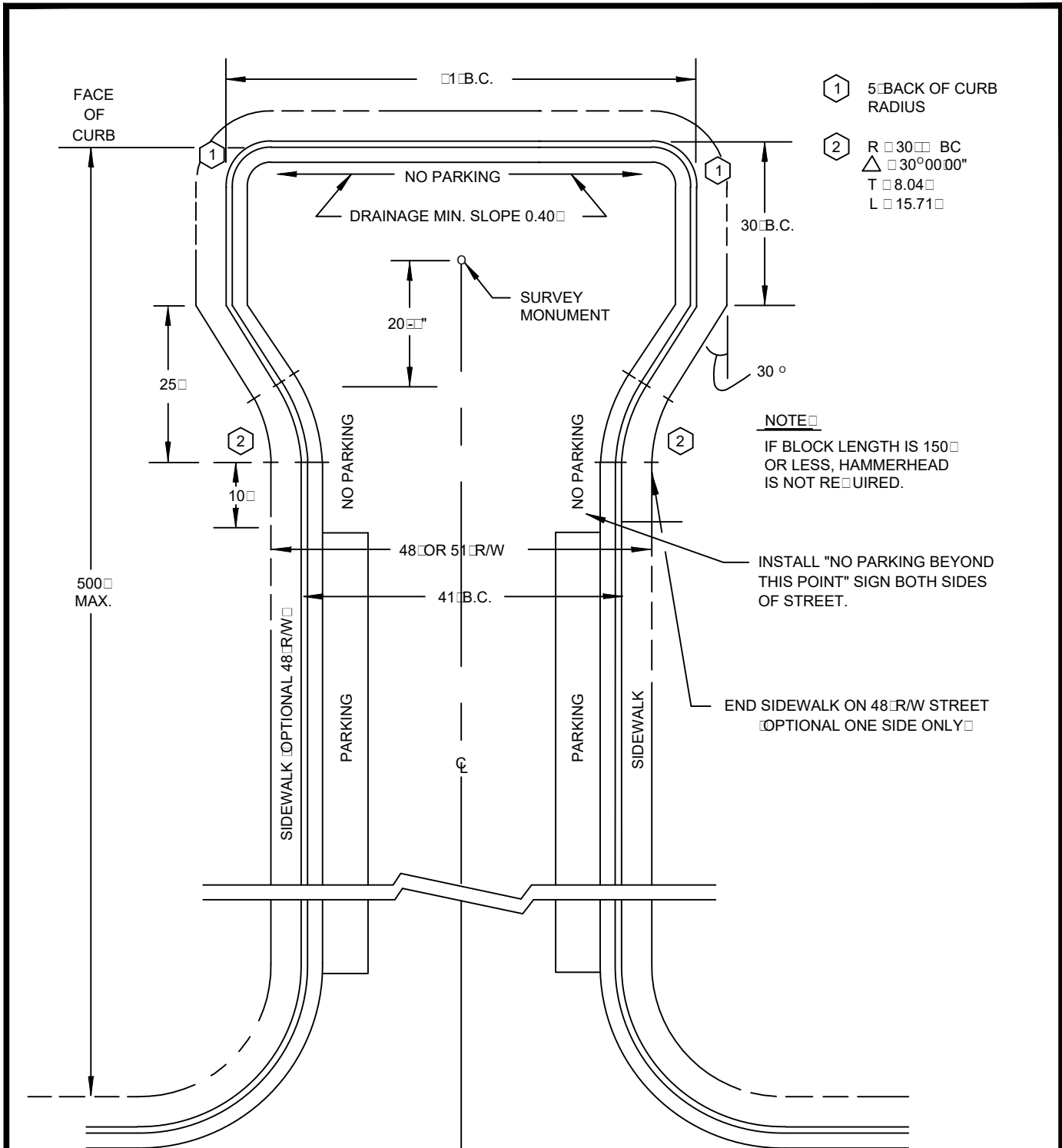
NOTES

1. USE NORMAL SECTION FROM INNER CURB TO CENTER LINE.
2. FROM CROWN LINE TO OUTER CURB, THE STANDARD SLOPE IS 2%.
3. SUPERELEVATION PERCENTAGES SHOWN ARE A STRAIGHT GRADE FROM CENTER LINE TO CROWN LINE.
4. ELEVATIONS ARE REQUIRED WHERE CIRCLES ARE SHOWN.
5. KNUCKLES ARE NOT ALLOWED ON MAJOR COLLECTOR OR ARTERIAL STREETS.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
KNUCKLE						
DATE	DWG. NO.	211				

SPECIFICATION REFERENCE	

Effective 10/08/2020 to 12/09/2020

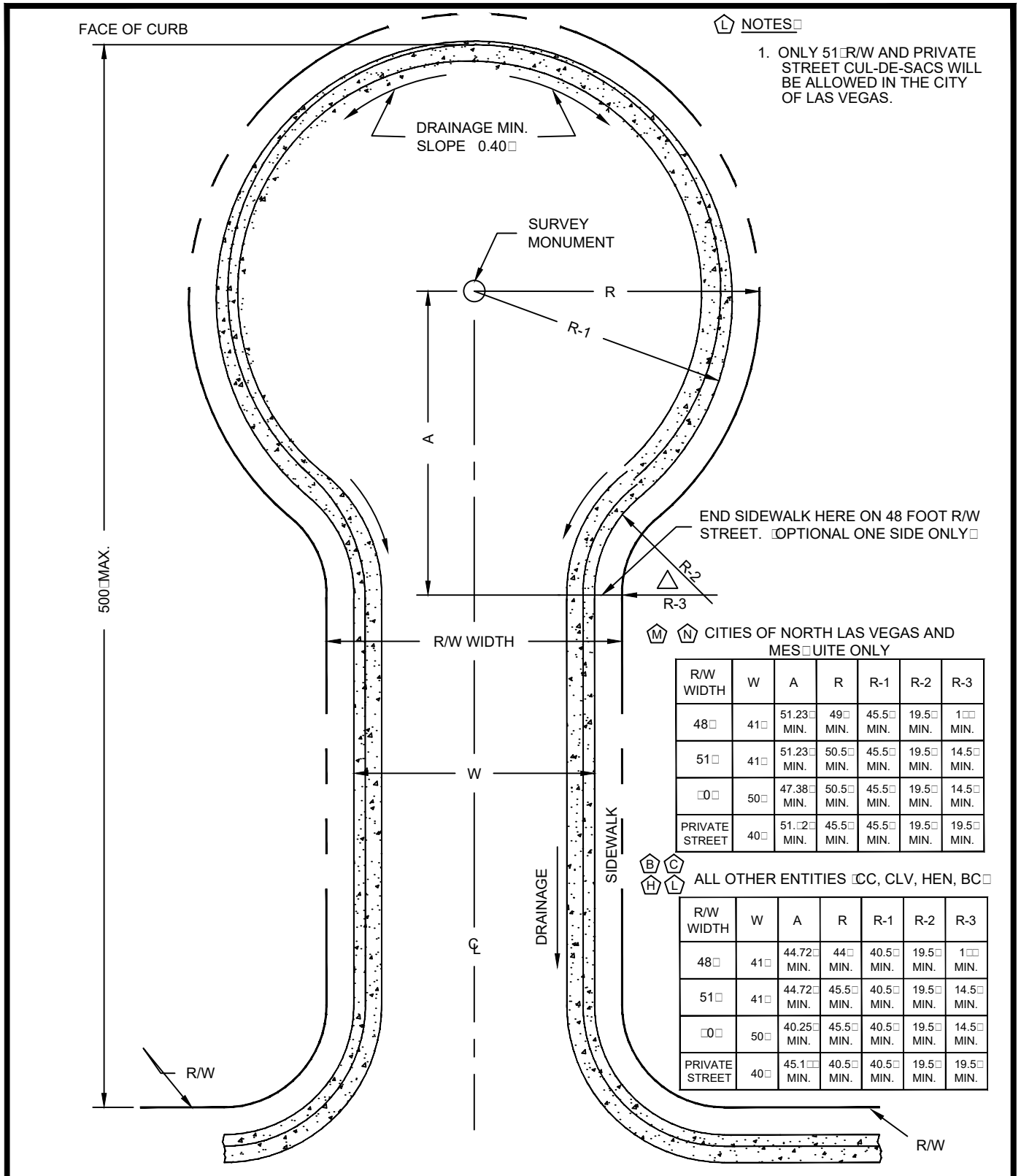


NOTE
 USE OF THE HAMMERHEAD WILL BE ALLOWED IN SINGLE FAMILY RESIDENTIAL DWELLING AREAS ONLY.

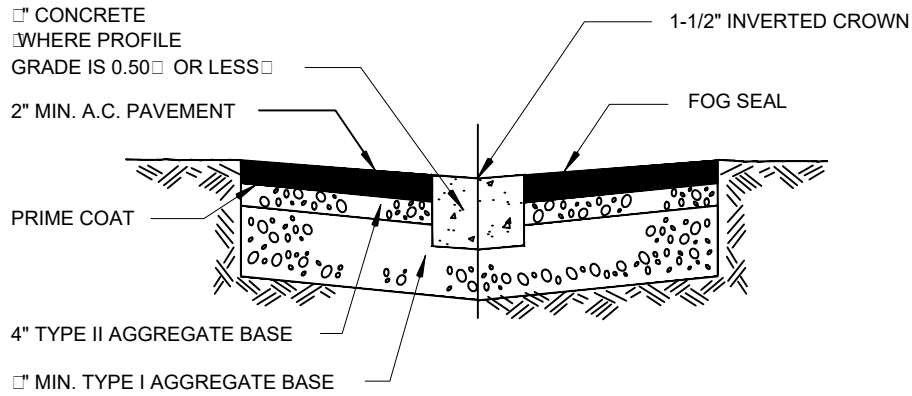
Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		C			
SPECIFICATION REFERENCE					
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
HAMMERHEAD					
DATE	11-10-04	DWG. NO.	212.1.S1		

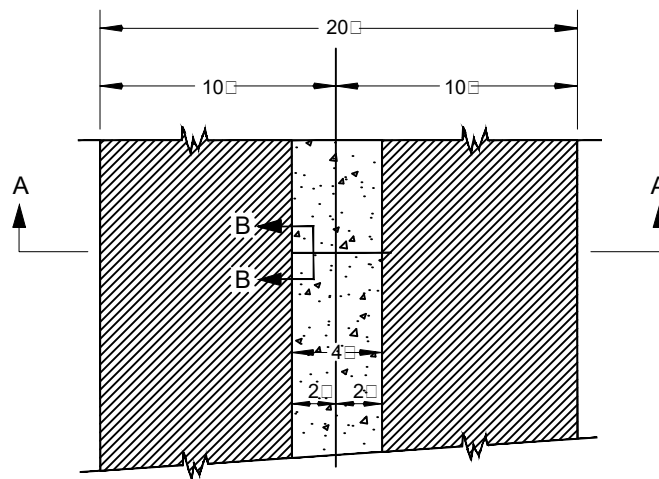
Effective 10/08/2020 to 12/09/2020



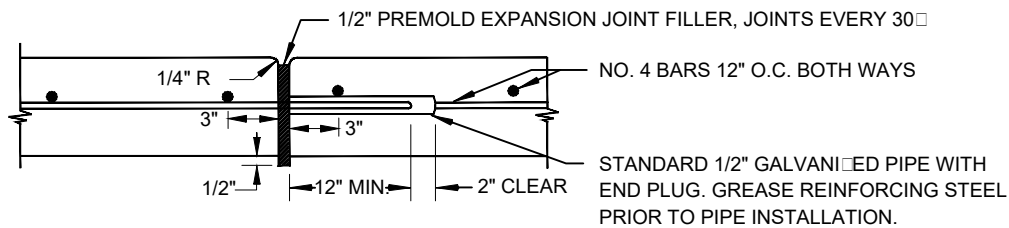
AGENCY APPROVED		[B]	[C]	[H]	[L]	[M]	[N]
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		CUL-DE-SAC					
DATE	8-00	DWG. NO.	212				



SECTION A-A



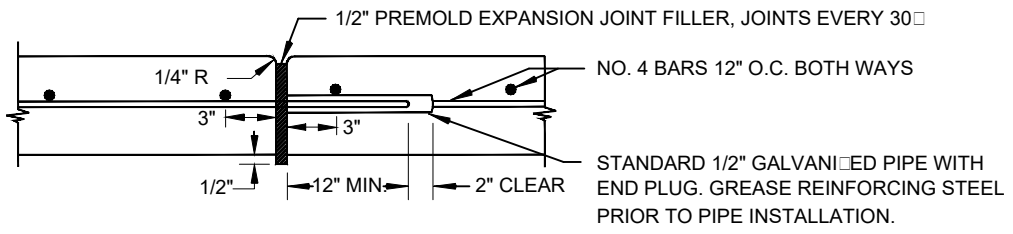
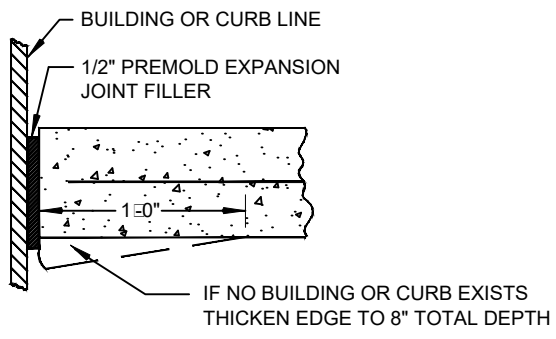
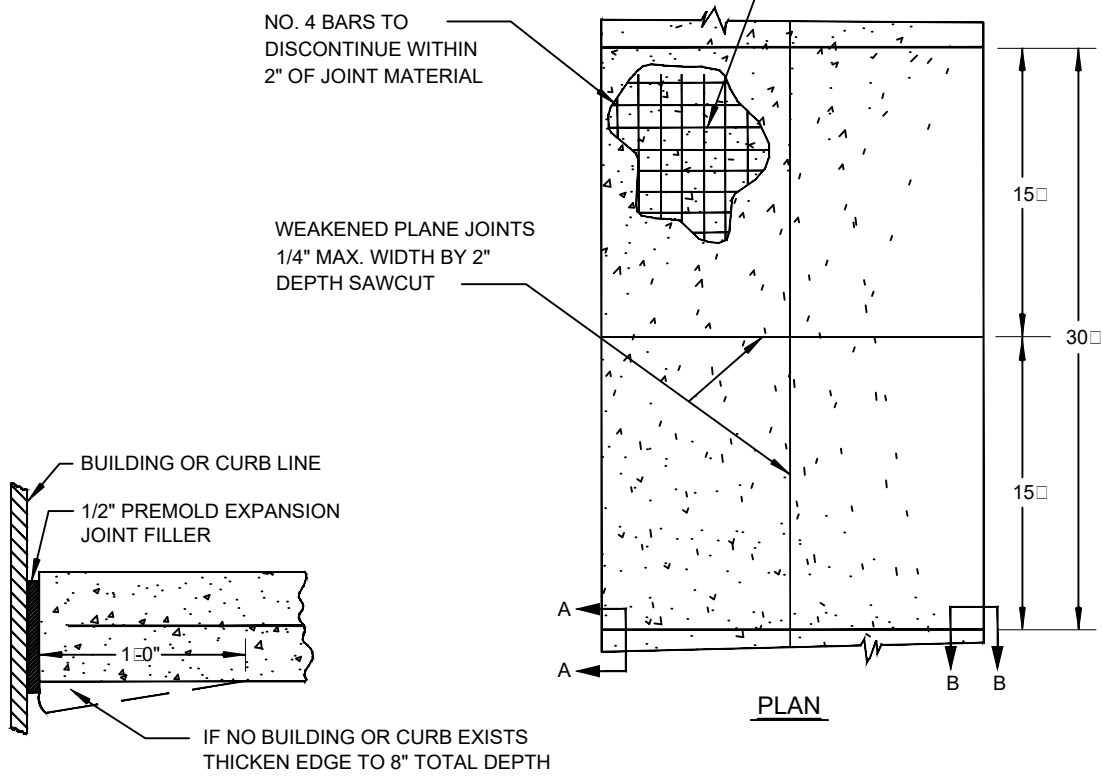
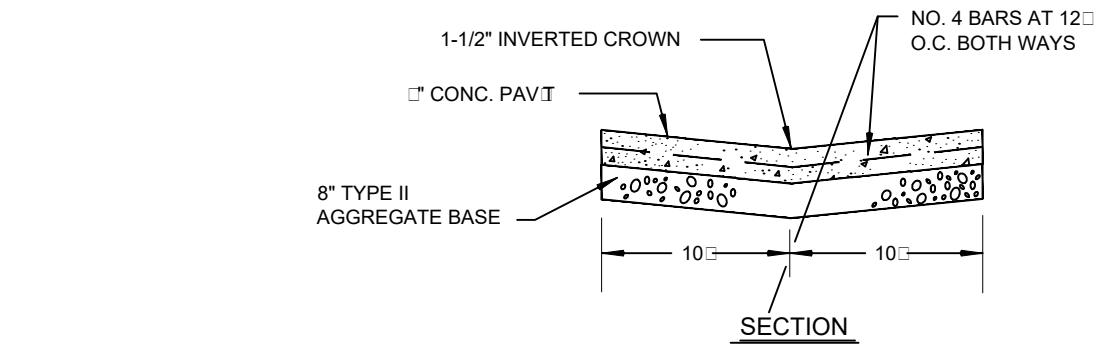
PLAN



SECTION B-B

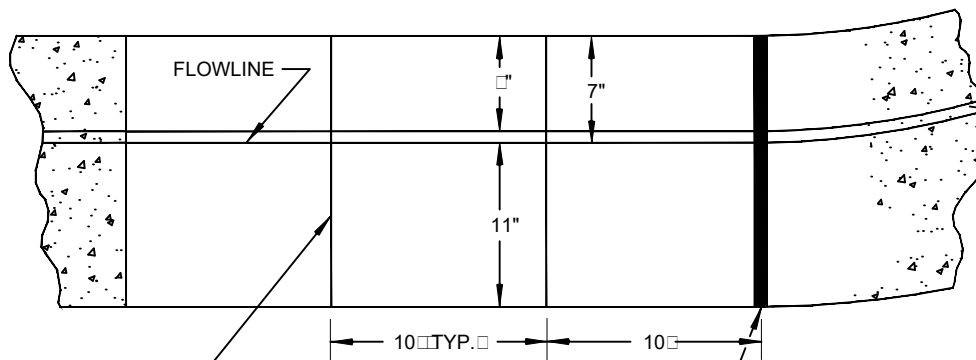
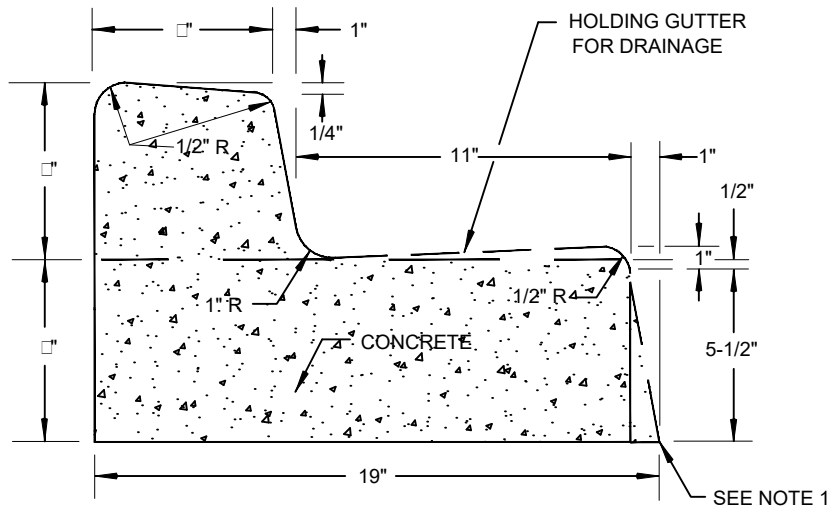
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
302	AGGREGATE BASE	SUPPLEMENTAL DRAWING ALLEY					
501	CONCRETE						
505	REINFORCING STEEL						
707	JOINT MATERIAL						
		DATE 12-14-00	DWG. NO.	214.S1			



Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B		H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
302	AGGREGATE BASE	SUPPLEMENTAL DRAWING ALLEY, CONCRETE					
501	CONCRETE						
505	REINFORCING STEEL						
707	JOINT MATERIAL						
DATE 12-14-00		DWG. NO.		215.S1			



WEAKENED
PLANE JOINTS
SEE STANDARD DRAWING
NUMBER 234

TYPICAL PLAN

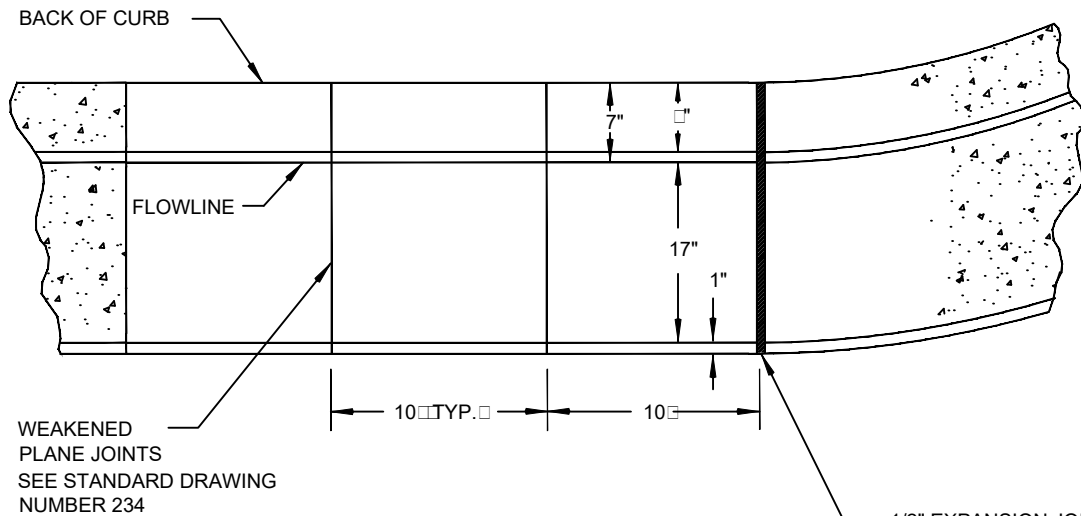
1/2" EXPANSION JOINT AT
ALL COLD JOINTS, AT
BEGINNING AND END OF
RETURN AND AT 300" MAX.
INTERVALS FOR EXTRUDED
CURB AND 30" MAX. INTERVALS
FOR FORMED CURB. FOR JOINT
DETAIL SEE STANDARD DRAWING
NUMBER 234

NOTES

- 1. 1" BATTER ON GUTTER FACE OPTIONAL.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED							L		
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA									
302	AGGREGATE BASE COURSE	SUPPLEMENTAL DRAWING									
501	CONCRETE	"L" TYPE CURB AND GUTTER COMPLETE STREET ALTERNATIVE									
707	JOINT MATERIAL										
		DATE	07-01-12	DWG. NO.	21	1.S1					

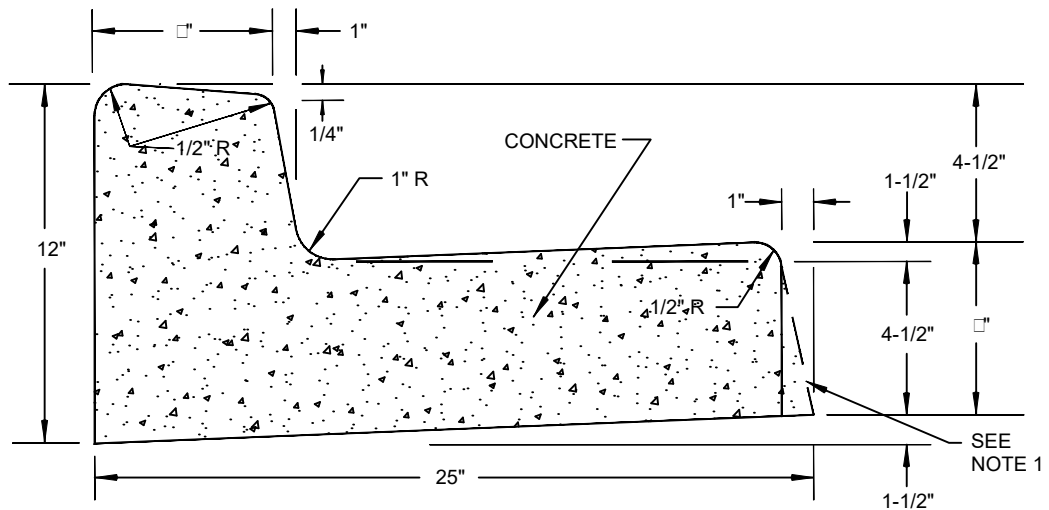


PLAN

1/2" EXPANSION JOINT AT ALL COLD JOINTS, AT BEGINNING AND END OF RETURN AND AT 300" MAX. INTERVALS FOR EXTRUDED CURB AND 30" MAX. INTERVALS FOR FORMED CURB. FOR JOINT DETAIL SEE STANDARD DRAWING NUMBER 234

NOTES

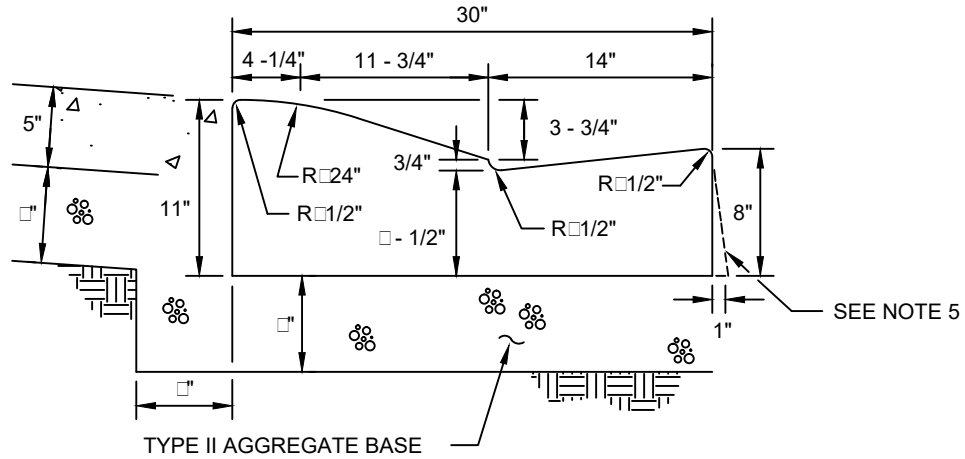
1. 1" BATTER ON GUTTER FACE OPTIONAL.
2. WHERE LONGITUDINAL SLOPE IS LESS THAN 0.4%, THE FLOW LINE SHALL BE WATER TESTED.



TYPICAL SECTION

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
		B	C	H	L	M	N
501	CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
502	CONCRETE STRUCTURES						
707	JOINT MATERIAL	"L" TYPE CURB AND GUTTER					
		DATE 12-14-00		DWG. NO. 21			

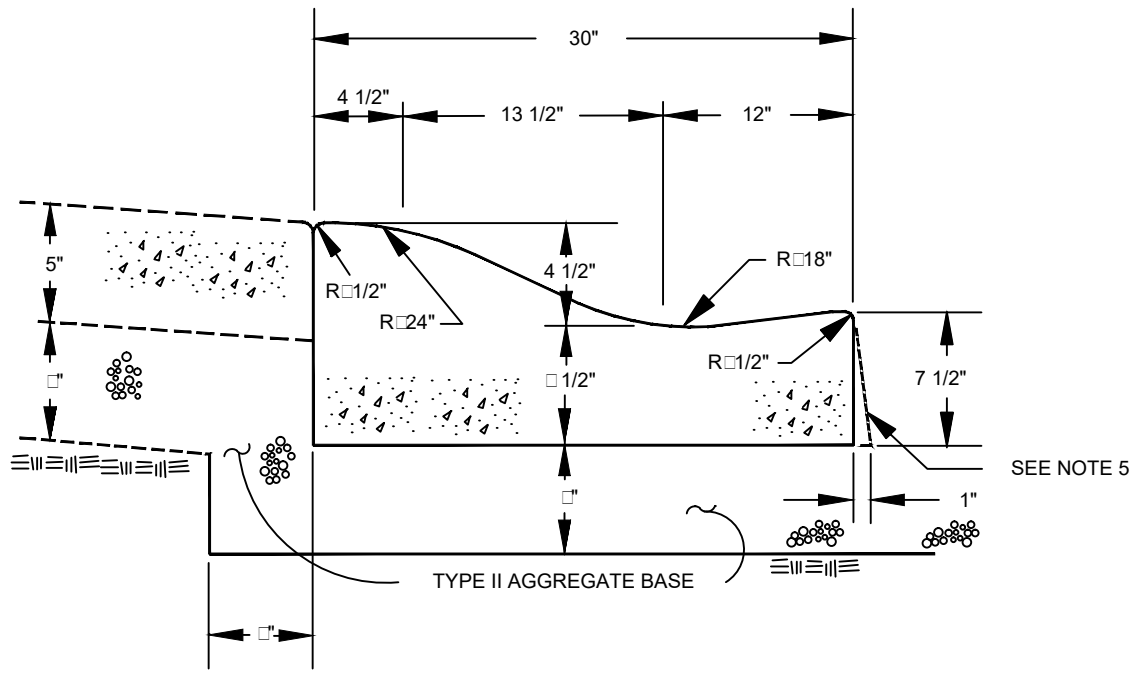


NOTES

1. USE OF ROLL CURB MAY BE RESTRICTED BY SURFACE DRAINAGE CONSIDERATIONS.
2. SIDEWALK CONSTRUCTED CONTIGUOUS TO ROLL CURB SHALL BE 5 INCHES THICK (MIN.)
3. ALL CURB FLOW LINES SHALL BE WATER TESTED. ANY CURB THAT DOES NOT FLOW SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE PERMITTING AGENCY AT THE SOLE EXPENSE OF THE CONTRACTOR.
4. CONSTRUCT 1/2" EXPANSION JOINT AT ALL COLD JOINTS, AT BEGINNING AND END OF CURB RETURNS, AND AT 300 FT. MAX. INTERVALS FOR EXTRUDED CURB AND 30 FT. MAX. INTERVALS FOR FORMED CURB. WEAKENED PLANE JOINTS SHALL BE FORMED AT THE REMAINING 15 FT. INTERVALS. SEE STD. DWG. NO. 234 FOR JOINT DETAILS.
5. ONE INCH BATTER AT CURB FACE IS OPTIONAL.
- NO UTILITY BOXES AND COVERS ADJACENT TO 30 INCH MODIFIED ROLL CURB AND GUTTER RESIDENTIAL AREA SHALL BE ALLOWED AT DRIVEWAY LOCATIONS.
- ⬡ 7. BOULDER CITY ENGINEER APPROVAL REQUIRED FOR USE OF 30 INCH MODIFIED CURB AND GUTTER RESIDENTIAL AREA .
8. IF ROLL CURB IS APPROVED FOR OTHER LOCATIONS THAT ARE SUBJECTED TO REGULAR TRAFFIC, THEN UTILITY BOXES AND COVERS ADJACENT TO ROLL CURB SHALL MEET H20-44 FOR STEEL BOXES AND ANSI/SCTE 77-2007 TIER-22 FOR FIBERGLASS POLYMER CONCRETE BOXES RATED "TRAFFIC BEARING" TYPE.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	⬡	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
320	AGGREGATE BASE	30 INCH MODIFIED ROLL CURB AND GUTTER RESIDENTIAL AREA						
501	CONCRETE							
502	CONCRETE STRUCTURES							
707	JOINT MATERIAL							
		DATE 01-01-17	DWG. NO.		217.1			



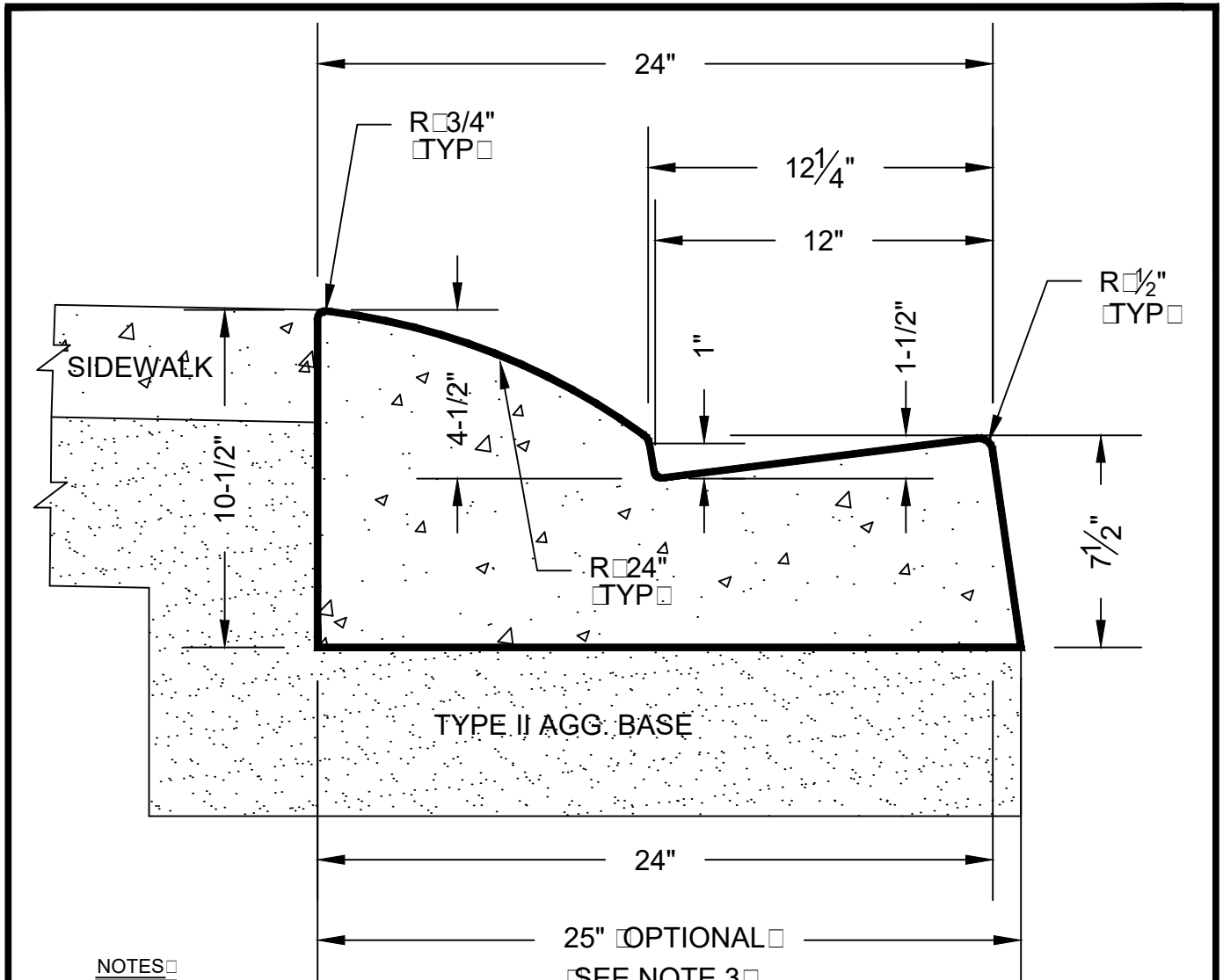
NOTES

1. USE OF ROLL CURB MAY BE RESTRICTED BY SURFACE DRAINAGE CONSIDERATIONS.
2. SIDEWALK CONSTRUCTED CONTIGUOUS TO ROLL CURB SHALL BE 5 INCHES THICK [MIN]
3. WHERE LONGITUDINAL SLOPE IS LESS THAN 0.4% THE FLOW LINE SHALL BE WATER TESTED.
4. CONSTRUCT 1/2" EXPANSION JOINT AT ALL COLD JOINTS, AT BEGINNING AND END OF CURB RETURNS, AND AT 300 FT. MAX. INTERVALS FOR EXTRUDED CURB AND 30 FT. MAX. INTERVALS FOR FORMED CURB. WEAKENED PLANE JOINTS SHALL BE FORMED AT THE REMAINING 15 FT. INTERVALS. SEE STD. DWG. NO. 234 FOR JOINT DETAILS.
5. ONE INCH BATTER AT CURB FACE IS OPTIONAL.
- Ⓕ CITY OF LAS VEGAS COUNCIL APPROVAL REQUIRED FOR USE OF 30" ROLL CURB IN THE CITY OF LAS VEGAS.
- Ⓖ 7. IN NORTH LAS VEGAS, ROLL CURBS ARE PROHIBITED IN AREAS WHERE FLOW LINE GRADIENT IS LESS THAN 0.8% UNLESS OTHERWISE APPROVED BY CITY ENGINEER.
8. NO UTILITY BOXES AND COVERS ADJACENT TO 30 INCH MODIFIED ROLL CURB AND GUTTER RESIDENTIAL AREA SHALL BE ALLOWED AT DRIVEWAY LOCATIONS.
9. IF ROLL CURB IS APPROVED FOR OTHER LOCATIONS THAT ARE SUBJECTED TO REGULAR TRAFFIC, THEN UTILITY BOXES AND COVERS ADJACENT TO ROLL CURB SHALL MEET H20-44 FOR STEEL BOXES AND ANSI/SCTE 77-2007 [TIER-22] FOR FIBERGLASS POLYMER CONCRETE BOXES RATED "TRAFFIC BEARING" TYPE.

AGENCY APPROVED		C	H	Ⓕ	Ⓖ
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
30 INCH ROLL CURB RESIDENTIAL AREA					
DATE	01-01-17	DWG. NO.	217.2.S1		

SPECIFICATION REFERENCE	
320	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES
707	JOINT MATERIAL

Effective 10/08/2020 to 12/09/2020

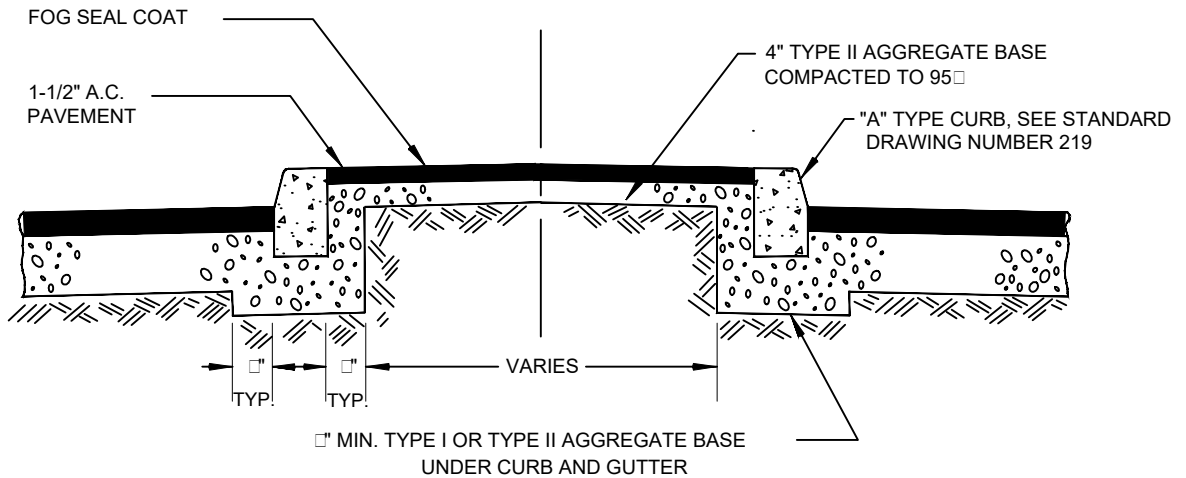


NOTES

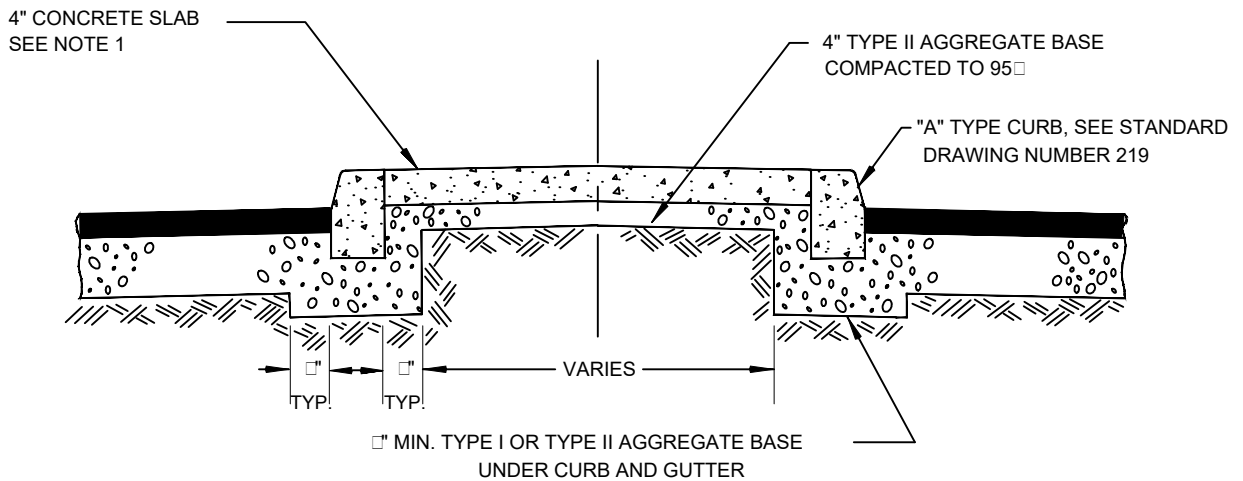
1. WHERE LONGITUDINAL SLOPE IS LESS THAN 0.4 THE FLOW LINE SHALL BE WATER TESTED.
 2. CONSTRUCT 1/2" EXPANSION JOINT AT ALL COLD JOINTS, AT BEGINNING AND END OF CURB RETURNS, AND AT 300 FT. MAX. INTERVALS FOR EXTRUDED CURB AND 30 FT. MAX. INTERVALS FOR FORMED CURB. WEAKENED PLANE JOINTS SHALL BE FORMED AT THE REMAINING 15 FT. INTERVALS. SEE STD. DWG. NO. 234 FOR JOINT DETAILS.
 3. ONE INCH BATTER AT GUTTER FACE IS OPTIONAL.
 4. NO UTILITY BOXES AND COVERS ADJACENT TO R-TYPE CURB SHALL BE ALLOWED AT DRIVEWAY LOCATIONS.
 5. IF R-TYPE CURB IS APPROVED FOR OTHER LOCATIONS THAT ARE SUBJECTED TO REGULAR TRAFFIC, THEN UTILITY BOXES AND COVERS ADJACENT TO R-TYPE CURB SHALL MEET H20-44 FOR STEEL BOXES AND ANSI/SCTE 77-2007 TIER-22 FOR FIBERGLASS POLYMER CONCRETE BOXES RATED "TRAFFIC BEARING" TYPE.
- FOR NEW CONSTRUCTION ON RESIDENTIAL SUBDIVISION STREETS ONLY.

AGENCY APPROVED		C	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
RESIDENTIAL CURB GUTTER R-TYPE					
DATE 01-01-18	DWG. NO.	217.3.S1			

SPECIFICATION REFERENCE	
320	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES
707	JOINT MATERIAL



AC MEDIAN

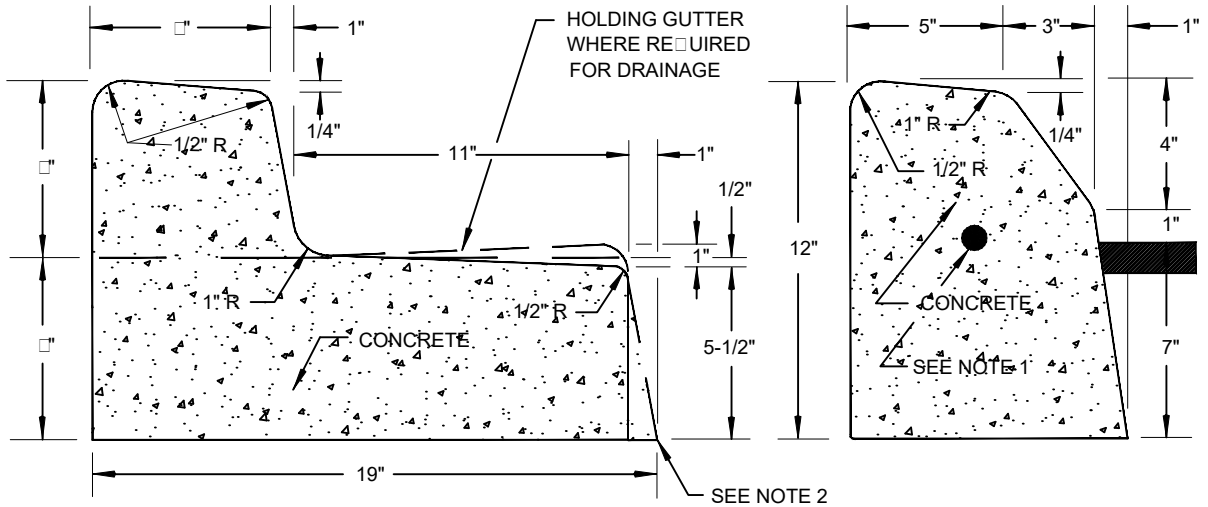


PCC MEDIAN

NOTES

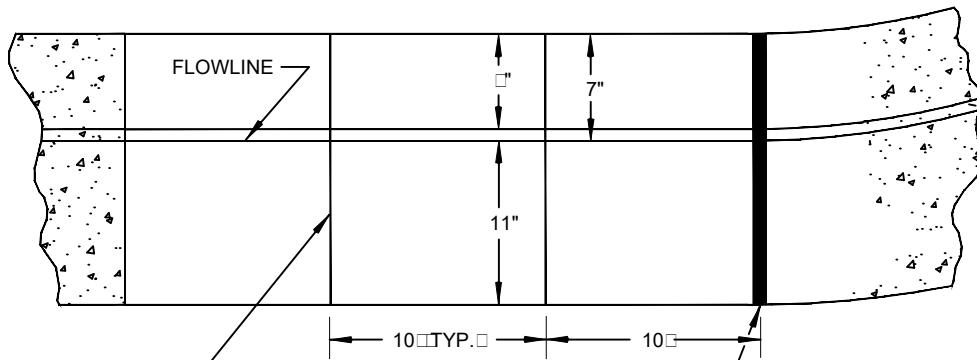
1. CONSTRUCT WEAKENED PLANE JOINT IN CURB AND SLAB AT SAME LOCATION EVERY 10' CONSTRUCT EXPANSION JOINTS EVERY 300' FOR CONCRETE SLAB TO MATCH CURB JOINTS. FOR JOINT DETAILS SEE STANDARD DRAWING NUMBER 234.
2. "L" -TYPE CURB AND GUTTER PER STANDARD DRAWING NUMBER 219 IS REQUIRED IN THE CITY OF HENDERSON AND MAY BE REQUIRED FOR DRAINAGE CONSIDERATIONS.
3. WHEN CURB MACHINE IS USED TO PLACE CURB, A 2" MINIMUM LEVELING COURSE OF TYPE II AGGREGATE BASE IS REQUIRED.

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
302	AGGREGATE BASE	MEDIAN ISLAND TYPICAL SECTION					
501	CONCRETE						
DATE 12-14-00	DWG. NO.	218					



"L" CURB SECTION

"A" CURB SECTION



TYPICAL PLAN

WEAKENED
PLANE JOINTS
SEE STANDARD DRAWING
NUMBER 234

1/2" EXPANSION JOINT AT
ALL COLD JOINTS, AT
BEGINNING AND END OF
RETURN AND AT 300" MAX.
INTERVALS FOR EXTRUDED
CURB AND 30" MAX. INTERVALS
FOR FORMED CURB. FOR JOINT
DETAIL SEE STANDARD DRAWING
NUMBER 234

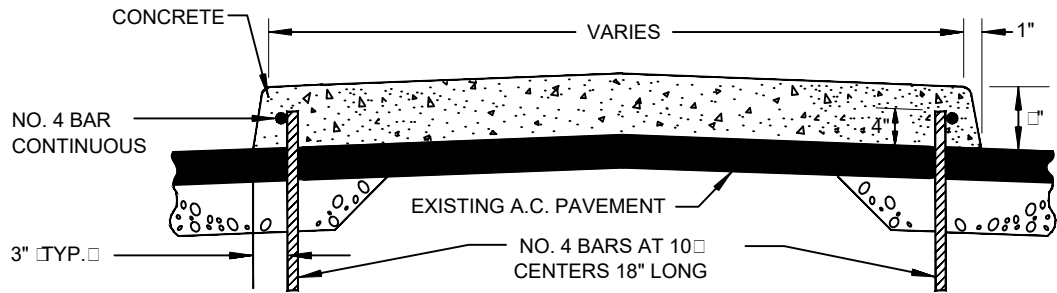
NOTES

1. CONTINUOUS NO. 4 BAR REQUIRED IN NOSE OF MEDIAN ONLY.
2. 1" BATTER ON GUTTER FACE OPTIONAL.

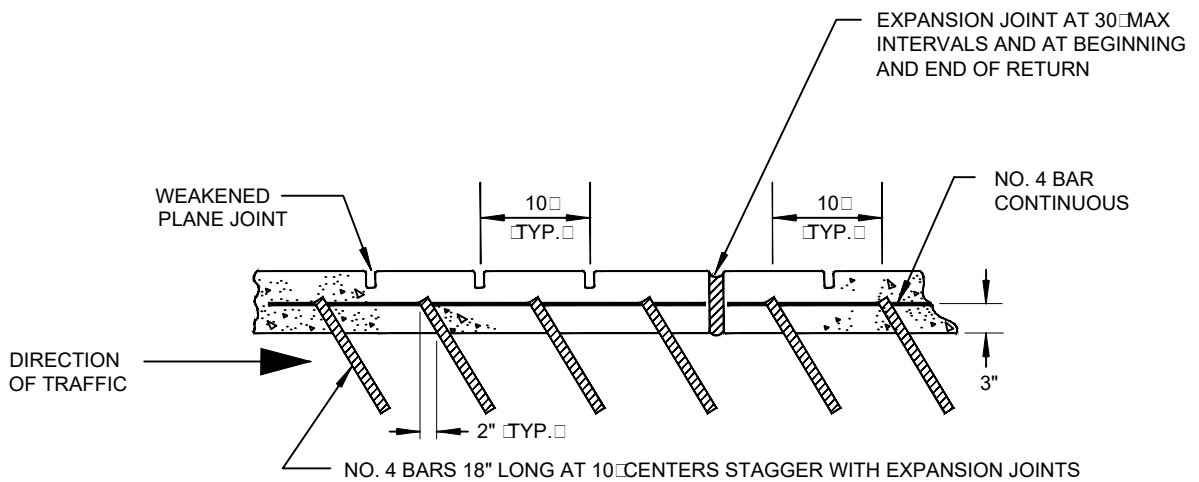
AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
"A" AND "L" TYPE ISLAND CURB							
DATE 12-14-00		DWG. NO.		219			

SPECIFICATION REFERENCE	
302	AGGREGATE BASE COURSE
501	CONCRETE
707	JOINT MATERIAL

1/2" RADIUS ROUNDED
EDGE ON ALL EXPOSED
CORNERS



SECTION



SIDE VIEW

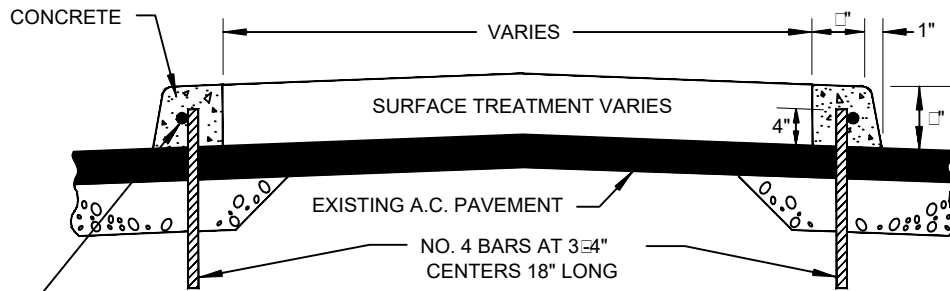
NOTES

1. FOR EXPANSION JOINT AND WEAKENED PLANE JOINT DETAIL, SEE STANDARD DRAWING NO. 234.
2. WHEN APPROVED BY THE ENGINEER/ENTITY, STRUCTURAL EPOXY ADHESIVE MAY BE USED IN LIEU OF NUMBER 4 DOWEL BAR EXCEPT AT CURB NOSE AND WITHIN 2 FEET OF ANY POINT OF CURVATURE.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
501	CONCRETE	SUPPLEMENTAL DRAWING					
505	REINFORCING STEEL						
707	JOINT MATERIAL	TACK - ON ISLAND					
		DATE 01-13-05	DWG. NO.	220.1.S1			

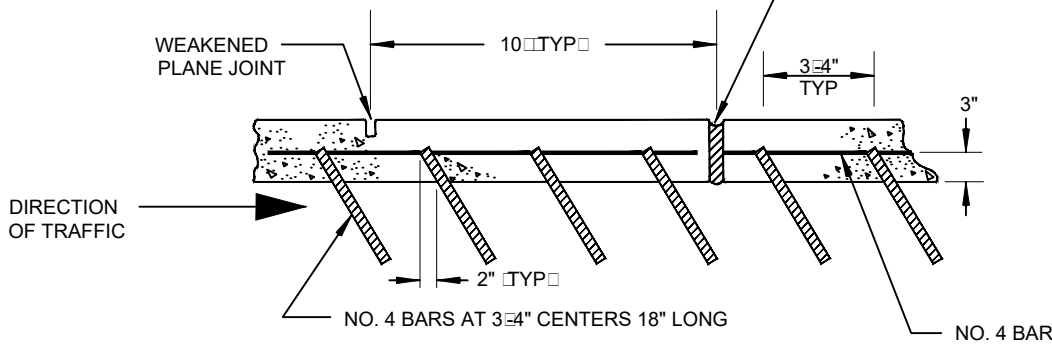
1/2" RADIUS ROUNDED
EDGE ON ALL EXPOSED
CORNERS



SECTION

NO. 4 BAR CONTINUOUS
EXCEPT THROUGH
EXPANSION JOINT

EXPANSION JOINT AT ALL COLD
JOINTS, AT BEGINNING AND END
OF RETURN AND 300' MAX
INTERVALS FOR EXTRUDED
CURB AND 30' MAX INTERVALS
FOR FORMED CURB

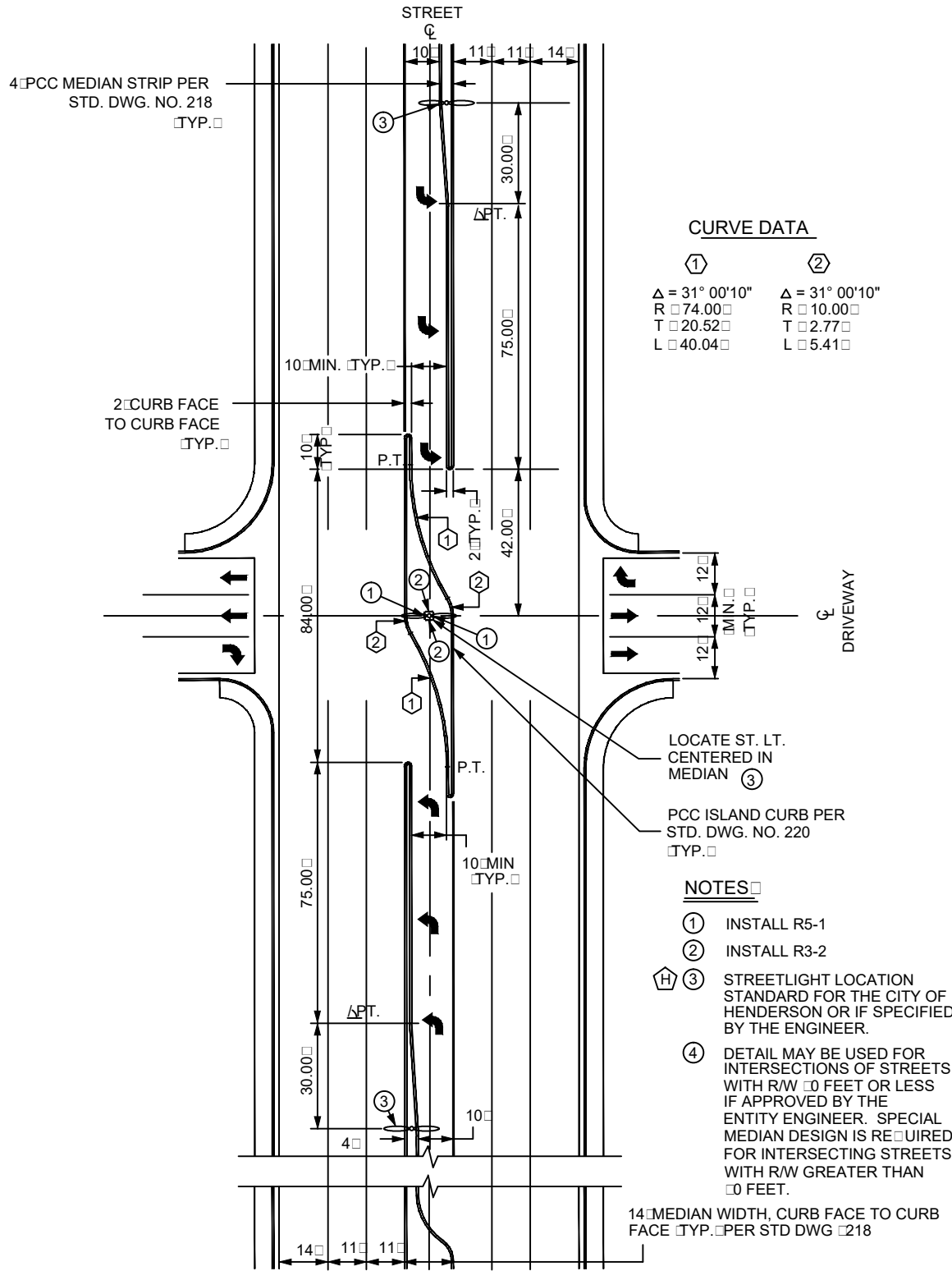


SIDE VIEW

NOTES

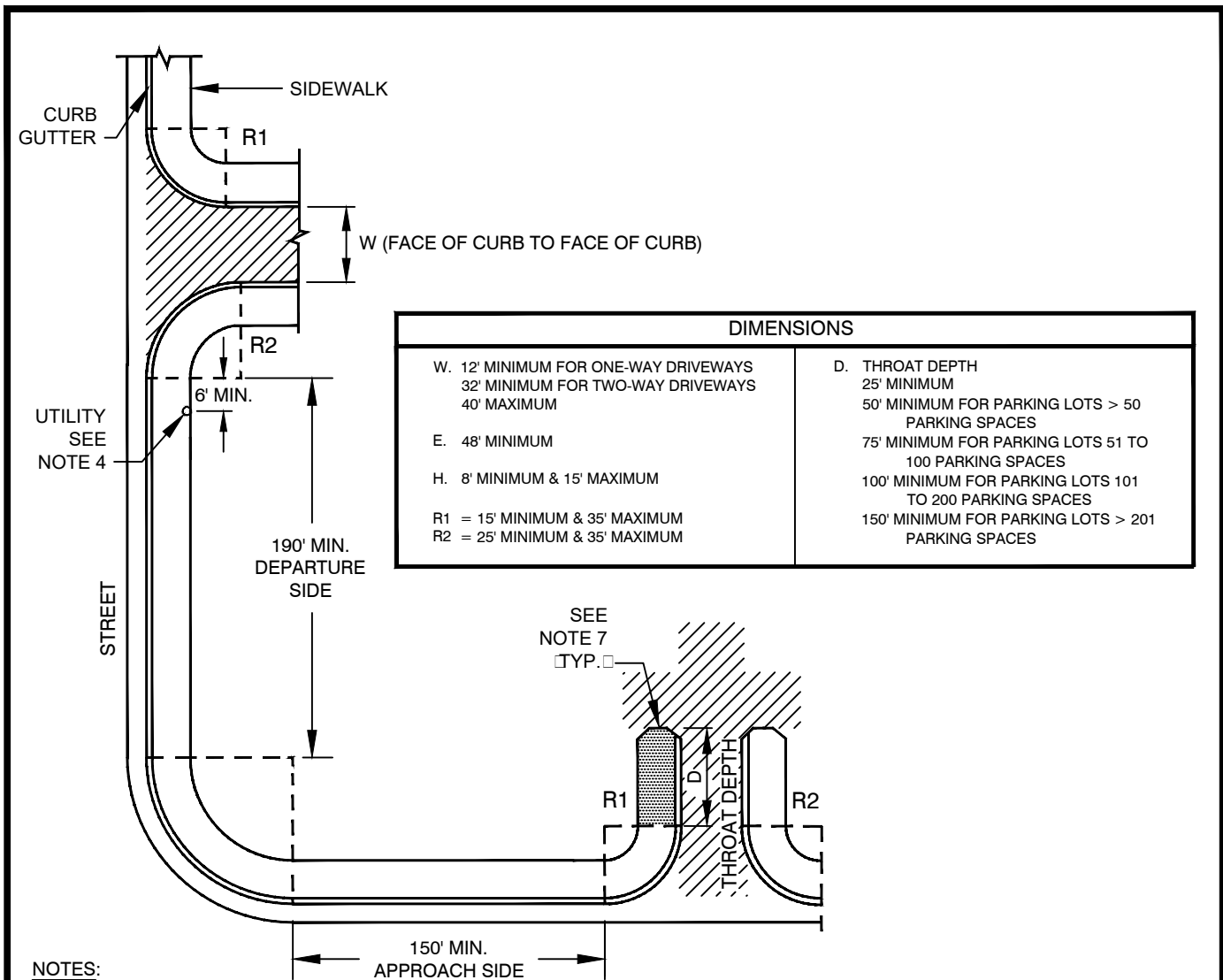
1. FOR EXPANSION JOINT AND WEAKENED PLANE JOINT DETAIL, SEE STANDARD DRAWING NO. 234.
2. WEAKENED PLANE JOINTS EVERY 10' STAGGER WITH NO. 4 BARS.
3. ALL REINFORCING STEEL SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN.
4. WHEN APPROVED BY THE ENGINEER/ENTITY, STRUCTURAL EPOXY ADHESIVE MAY BE USED IN LIEU OF NUMBER 4 DOWEL BAR EXCEPT AT CURB NOSE AND WITHIN 2 FEET OF ANY POINT OF CURVATURE.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
501	CONCRETE	TACK - ON ISLAND CURB						
505	REINFORCING STEEL							
707	JOINT MATERIAL							
		DATE 01-13-05	DWG. NO.	220				



AGENCY APPROVED	B	C	Ⓜ	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
CHANNELIZED MEDIAN DETAIL FOR COMMERCIAL DRIVEWAYS OR INTERSECTING STREETS						
DATE 9-11	DWG. NO.		221			

SPECIFICATION REFERENCE	



1. COMMERCIAL AND MULTI-FAMILY DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING NUMBERS 224, 225, 228, 235 AND 235.1.
2. LOCAL ORDINANCES AND POLICIES MAY APPLY AND SHALL HAVE PRECEDENCE. SEE NDOT ACCESS MANAGEMENT SYSTEM AND STANDARDS FOR STATE ROADWAYS.
3. THE TOTAL WIDTH "W" OF DRIVEWAY CURB OPENINGS SHALL NOT EXCEED 65% OF FRONT FOOTAGE.
4. NO DRIVEWAY SHALL BE LOCATED WITHIN 6 FEET OF A LIGHT POLE (UNLESS APPROVED BY THE ENTITY TRAFFIC ENGINEER), FIRE HYDRANT, MAIL BOX, ABOVE-GROUND ELECTRICAL TRANSFER BOX, OR BLOCK WALL HIGHER THAN 2 FEET.
5. THE CENTERLINES OF THE DRIVEWAYS ON OPPOSITE SIDES OF THE STREET AT A MEDIAN OPENING SHOULD BE WITHIN 10' FROM EACH OTHER AT THE MEDIAN OPENING.
6. GEOMETRICS APPLY TO NEW CONSTRUCTION ONLY, AND EXCEPTIONS MAY BE GRANTED BY THE APPROVAL OF THE AGENCY TRAFFIC ENGINEER BASED ON SITE CONSTRAINTS.
7. SIDEWALKS SHALL BE PROVIDED ADJACENT TO DRIVEWAYS TO THE P.C. OF THE ONSITE CURB RETURN, MINIMUM, OR AT AN ALTERNATE LOCATION.
8. WHEN A PROPERTY LINE FALLS IN A MEDIAN OPENING A JOINT DRIVEWAY AGREEMENT SHALL BE REQUIRED OR NO DRIVEWAY WILL BE ALLOWED.
9. WHERE A PEDESTRIAN ACCESS ROUTE CROSSES A DRIVEWAY, THE PEDESTRIAN ACCESS ROUTE ACROSS THE DRIVEWAY SHALL HAVE A CROSS SLOPE NO GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
COMMERCIAL AND MULTI-FAMILY DRIVEWAY GEOMETRICS	
DATE 05-21-20	DWG. NO. 222.1
SHEET 1 OF 2	

Effective 10/08/2020 to 12/09/2020

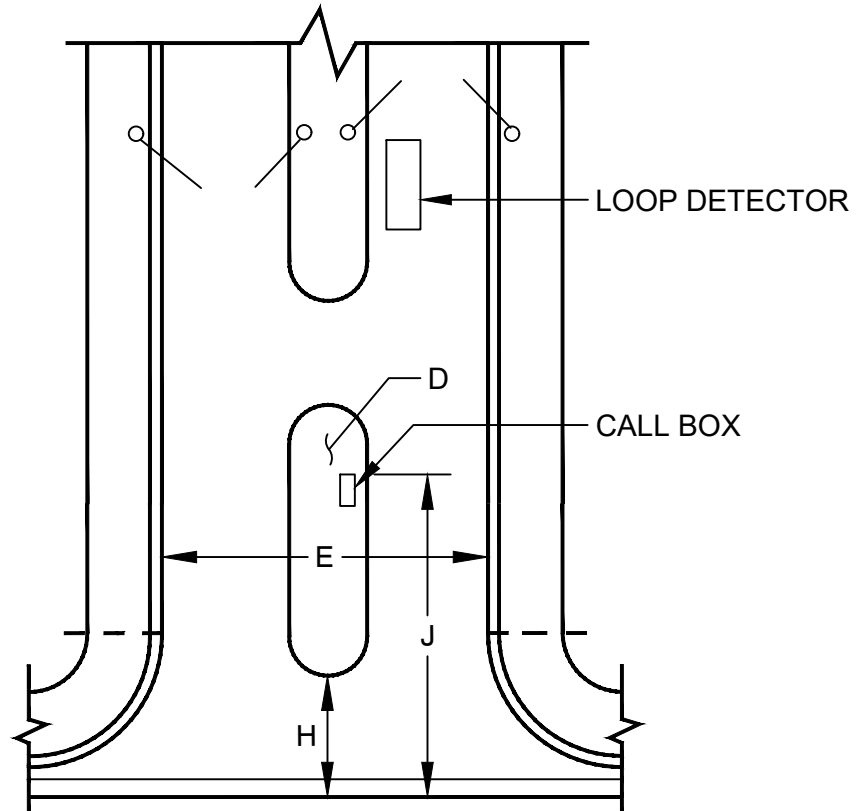
DIMENSIONS

J. THROAT DEPTH FOR SECURITY GATE

50' MINIMUM FOR 1 TO 49 HOMES OR APT. UNITS TO VISITOR CALL BOX.
 100' MINIMUM FOR 50 TO 100 HOMES OR APT. UNITS TO VISITOR CALL BOX.
 GREATER THAN 100 HOMES OR APT. UNITS REQUIRE TRAFFIC STUDY

DIMENSIONS FOR SECURITY GATE CONTROLLED DRIVEWAY DETAIL

D. ISLAND LENGTH-20' MINIMUM
 WIDTH- 4' MINIMUM
 G. 15' MINIMUM
 E. 48' MINIMUM
 H. 8' MINIMUM 15' MAXIMUM



DETAIL FOR SECURITY GATE CONTROLLED DRIVEWAYS

Effective 10/08/2020 to 12/09/2020

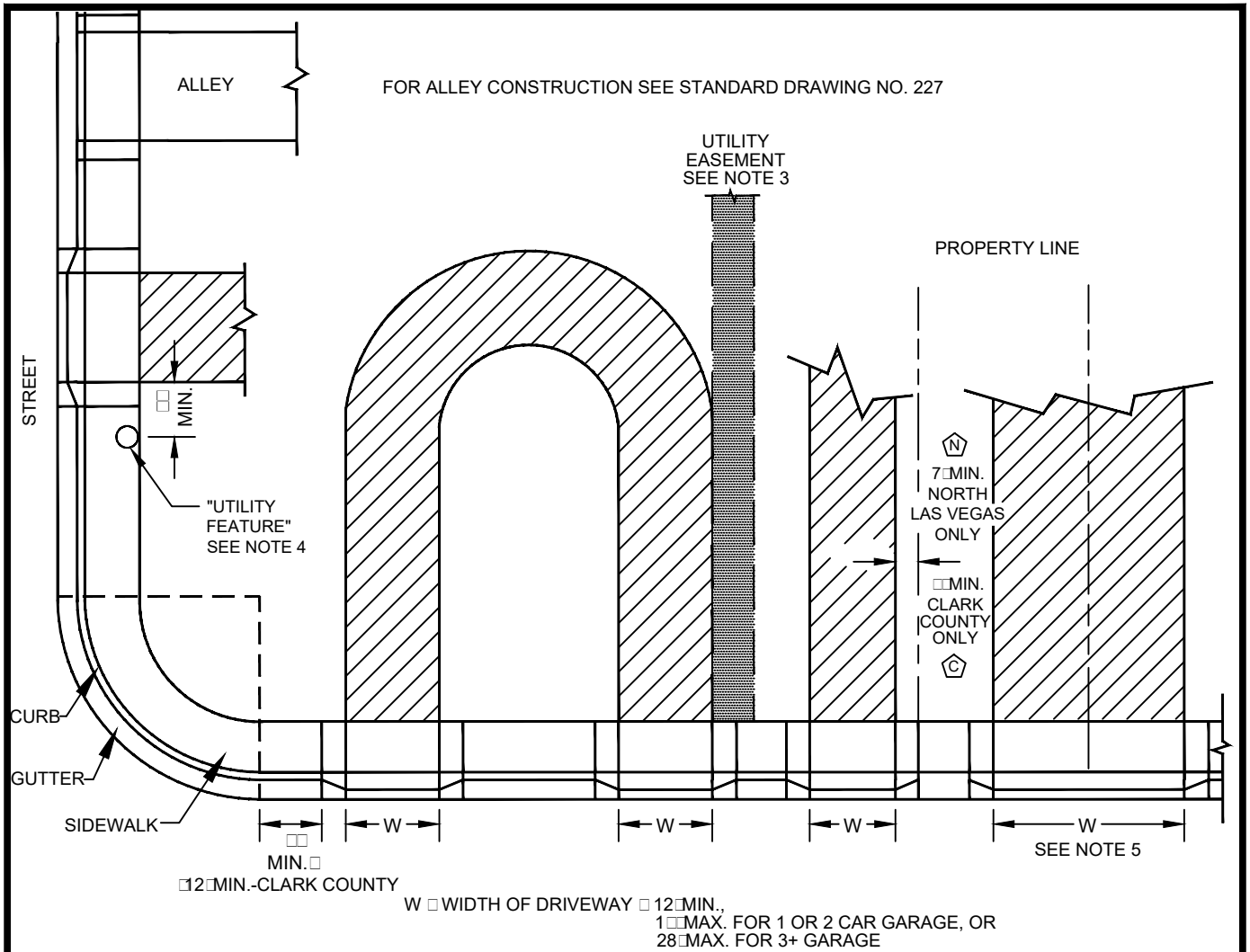
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS
 CLARK COUNTY AREA

COMMERCIAL AND MULTI-FAMILY
 SECURITY GATE GEOMETRICS

DATE 05-21-20	DWG. NO. 222.1	SHEET 2 OF 2
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NOTES

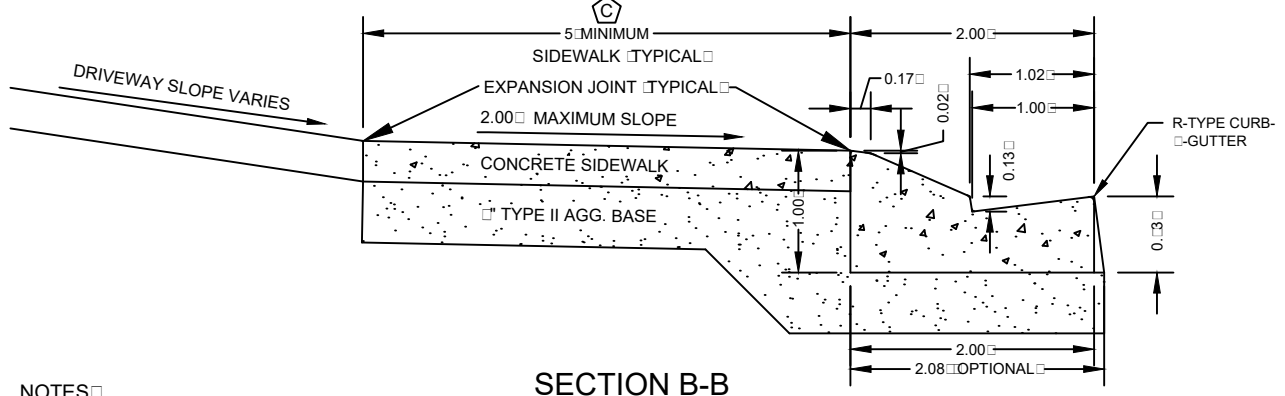
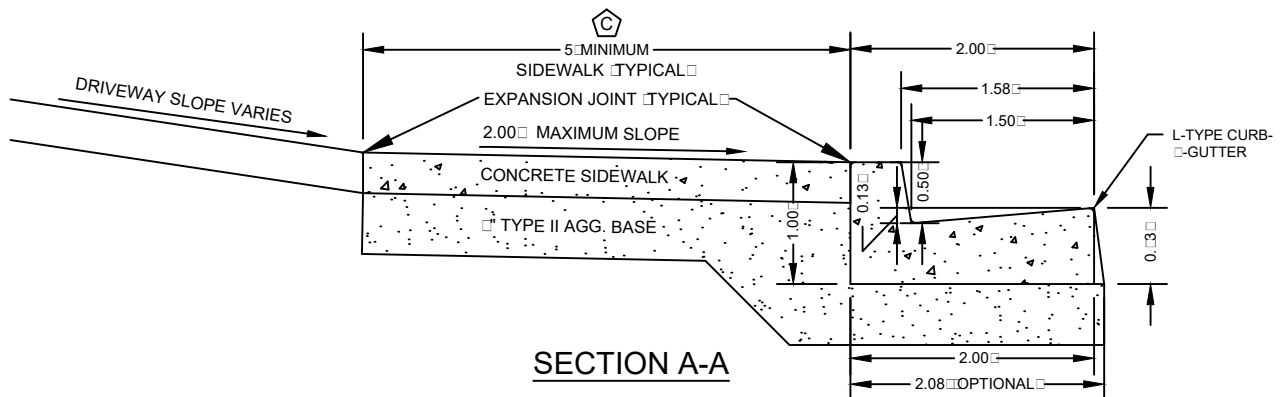
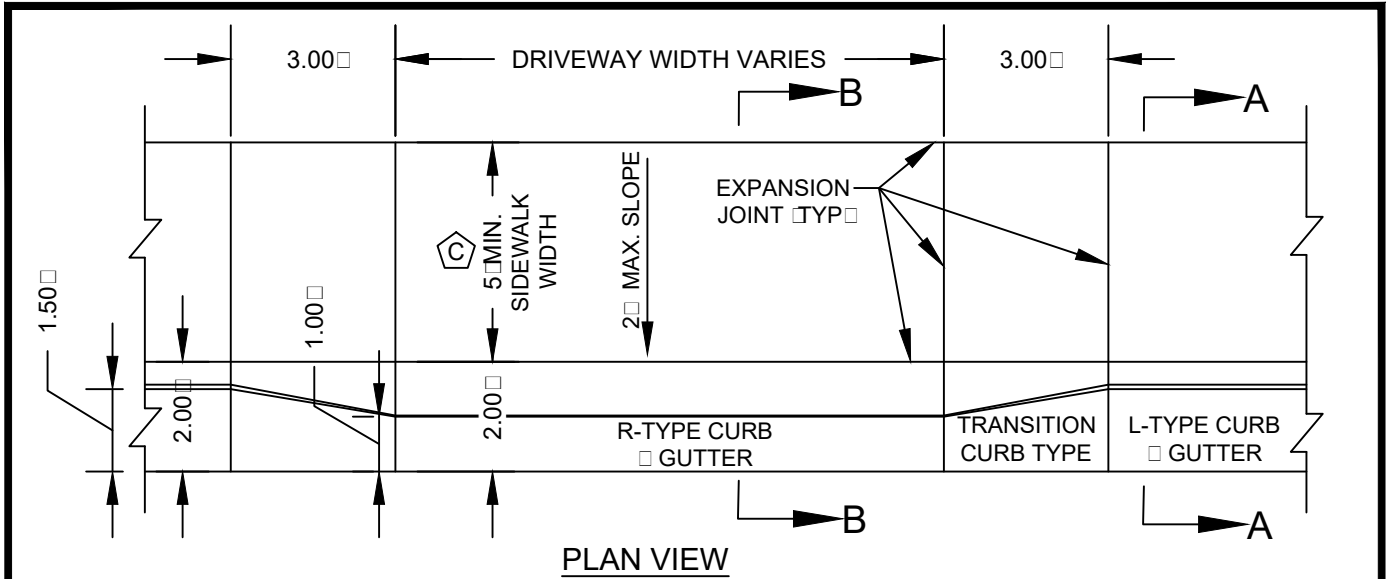
1. ALL RESIDENTIAL PROPERTIES MAY HAVE ONLY ONE CURB CUT EXCEPT CIRCULAR DRIVEWAYS AS SHOWN.
2. LOCAL ORDINANCES MAY APPLY AND SHALL HAVE PREFERENCE.
3. NO DRIVEWAY SHALL BE LOCATED WHOLLY OR PARTIALLY, ON OR OVER A UTILITY EASEMENT WHICH RUNS PERPENDICULAR TO THE CURB LINE.
4. NO DRIVEWAY SHALL BE LOCATED WITHIN 5 FEET OF A LIGHT POLE UNLESS ACCEPTED BY THE ENTITY TRAFFIC ENGINEER, FIRE HYDRANT, MAIL BOX, ABOVE-GROUND ELECTRICAL TRANSFER BOX, BLOCK WALL HIGHER THAN 2 FEET, OR THE CURB RETURN AT A STREET INTERSECTION OR ALLEY.
5. COMMON DRIVEWAY CONSTRUCTION MAY BE PERMITTED AT ANY TWO RESIDENTIAL PROPERTIES OF 10 FEET IN WIDTH OR LESS. THE WIDTH OF THE JOINT DRIVEWAY SHALL BE A MAXIMUM OF 24 FEET. A JOINT DRIVEWAY AGREEMENT SHALL BE REQUIRED. EXCEPT CLARK COUNTY
6. GEOMETRICS APPLY TO NEW CONSTRUCTION ONLY, AND MAY VARY IN EXISTING SUBDIVISIONS SUBJECT TO APPROVAL OF THE ENGINEER.
7. MULTI-FAMILY RESIDENTIAL AND ALL NON-RESIDENTIAL DRIVEWAYS SHALL CONFORM TO THE COMMERCIAL DRIVEWAY STANDARDS.
8. ALL DRIVEWAY LOCATIONS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.
9. FOR CURB DEPRESSION AND DRIVEWAY APRON DETAIL, SEE STD. DWG. NO. 223.

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
RESIDENTIAL DRIVEWAY GEOMETRICS	
DATE 05-21-20	DWG. NO. 222

Effective 10/08/2020 to 12/09/2020



NOTES

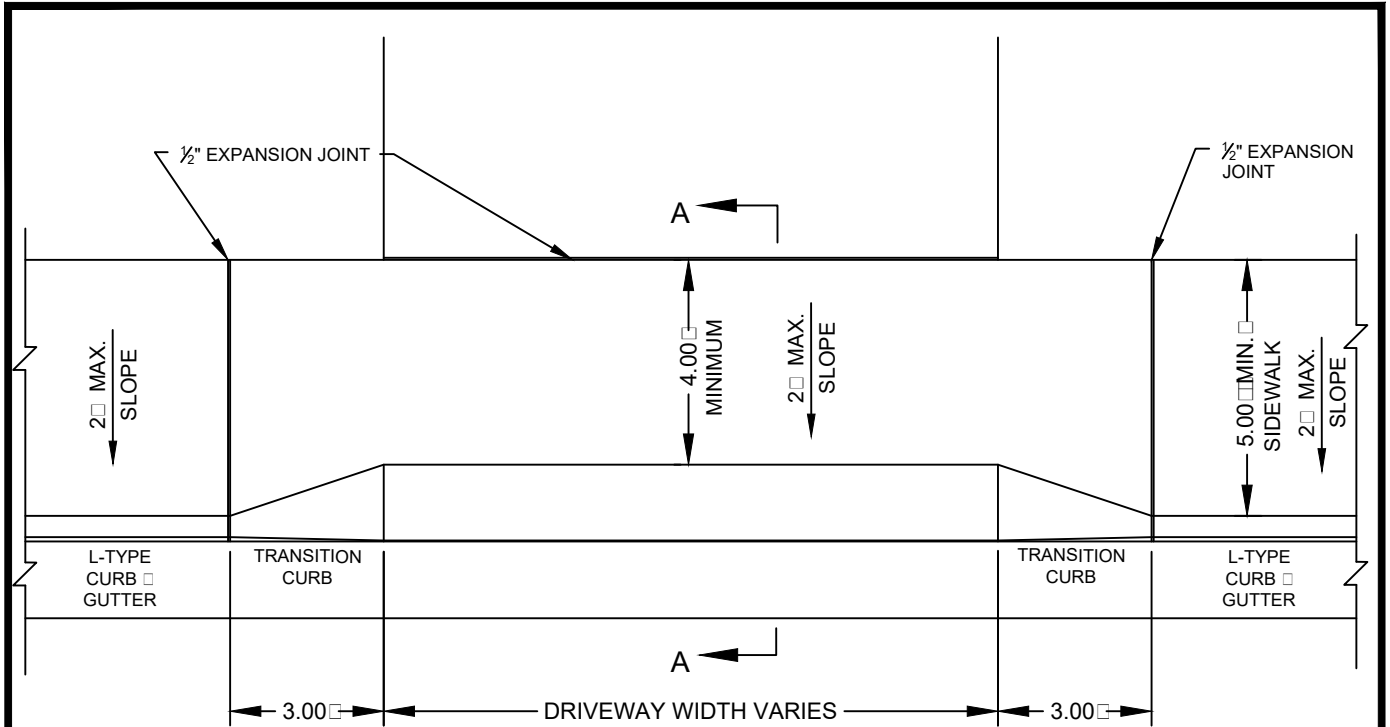
1. WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER. DRIVEWAYS MAY BE MONOLITHIC TO A.C. LINE.
2. WEAKENED PLANE JOINTS SHALL BE UNIFORMLY PLACED BETWEEN 5 AND 7 INTERVALS, SEE STANDARD DRAWING 234.
3. WHERE A PEDESTRIAN ACCESS ROUTE CROSSES A DRIVEWAY, THE PEDESTRIAN ACCESS ROUTE ACROSS THE DRIVEWAY SHALL HAVE A CROSS SLOPE NO GREATER THAN 2, REGARDLESS OF CONSTRUCTION TOLERANCES.
4. MINIMUM SIDEWALK WIDTH OF 4 ALLOWED IN CLARK COUNTY ONLY. WHERE THE CLEAR WIDTH OF A PEDESTRIAN ACCESS ROUTE IS LESS THAN 5 PASSING SPACES OF 5 MINIMUM BY 5 MINIMUM SHALL BE PROVIDED AT INTERVALS OF 200 MAXIMUM.

AGENCY APPROVED									
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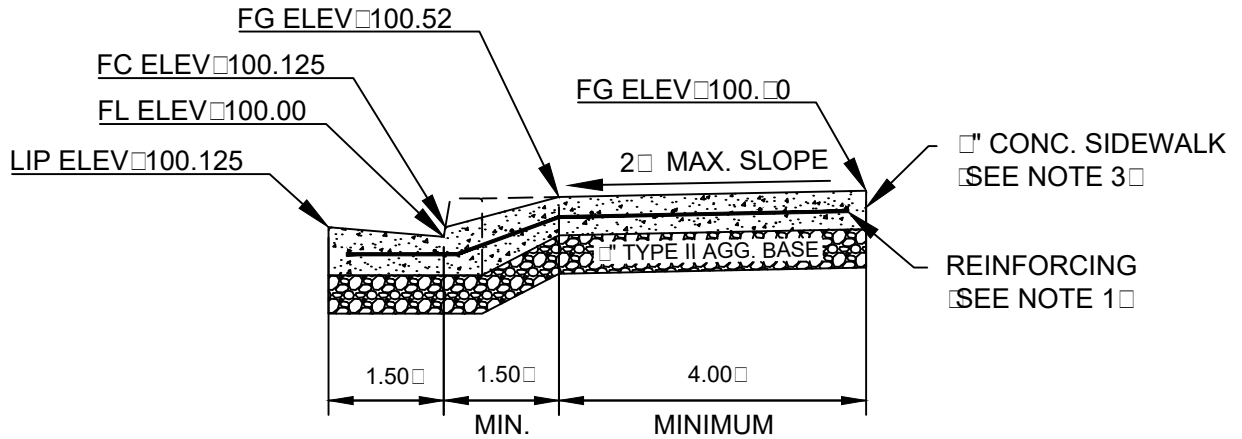
SPECIFICATION REFERENCE	
302	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES
707	JOINT MATERIAL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
RESIDENTIAL DRIVEWAY	
DATE 05-21-20	DWG. NO. 223

Effective 10/08/2020 to 12/09/2020



PLAN VIEW



SECTION A-A

NOTES

NOTE: ELEVATIONS SHOWN ARE TYPICAL

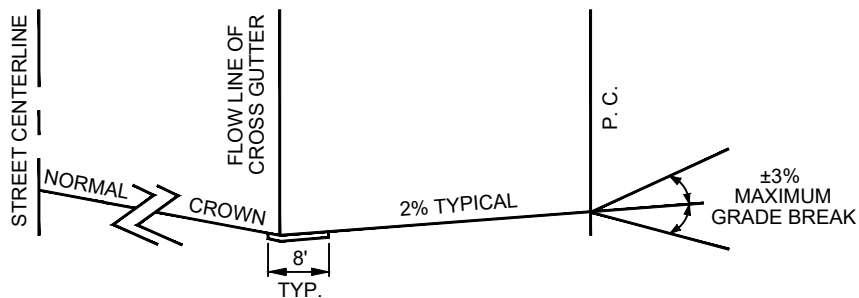
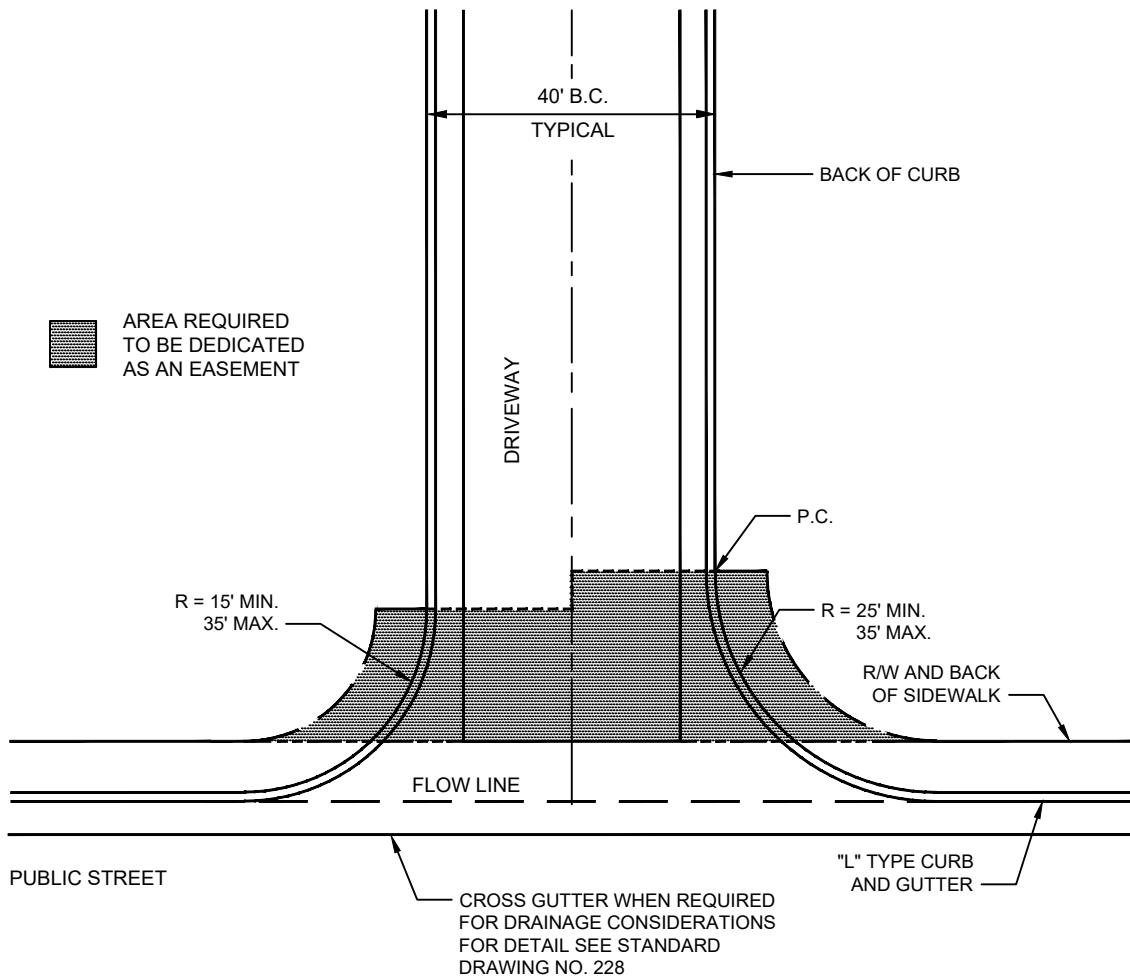
1. NO. 4 BARS AT 1' O.C. BOTH WAYS EXTENDING INTO GUTTER. NO. 4 BARS SHALL BE PLACED 3" ABOVE BOTTOM OF CONCRETE SUPPORTED BY NON-FERROUS CHAIRS APPROVED BY THE ENGINEER.
 2. WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER. DRIVEWAY SHALL BE MONOLITHIC TO A.C. LINE.
 3. DRIVEWAY THICKNESS FOR INDUSTRIAL USE SHALL BE 8" MIN.
 4. WEAKENED PLANE JOINTS SHALL BE EQUALLY SPACED AT 15' MAX. INTERVALS, SEE STANDARD DRAWING NO. 234.
 5. NO UTILITY BOXES AND COVERS ADJACENT TO R-TYPE CURB SHALL BE ALLOWED AT DRIVEWAY LOCATIONS.
- PEDESTRIAN ACCESS ROUTE SHALL HAVE A CROSS SLOPE NO GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
302	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES
505	REINFORCING STEEL
707	JOINT MATERIAL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
COMMERCIAL AND INDUSTRIAL DRIVEWAY [OPTION A]	

DATE 05-21-20	DWG. NO. 224
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TYPICAL CROSS SECTION

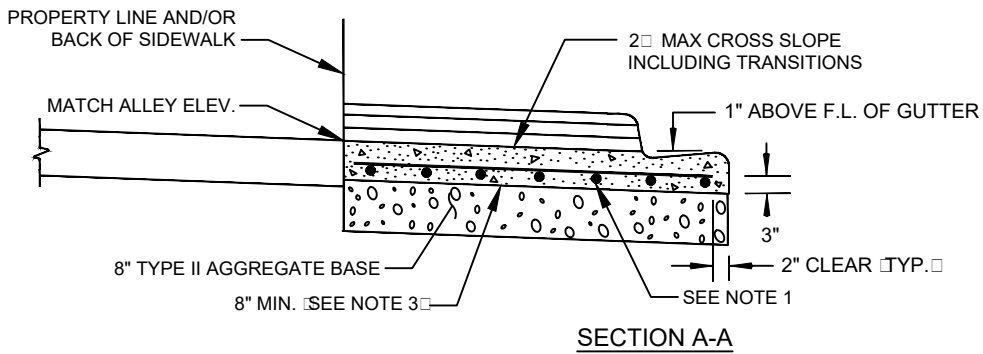
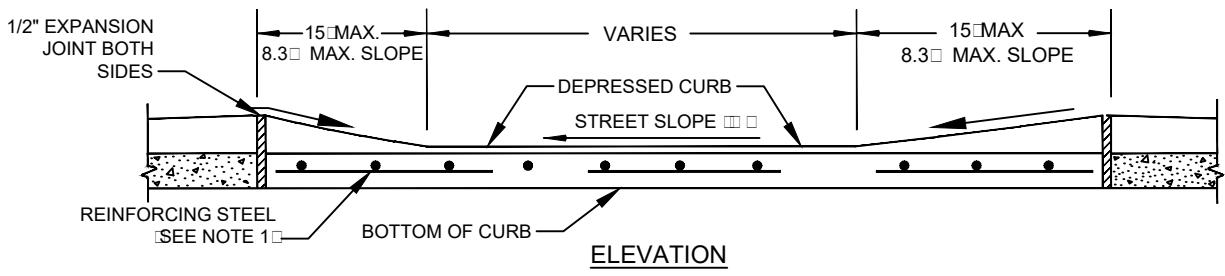
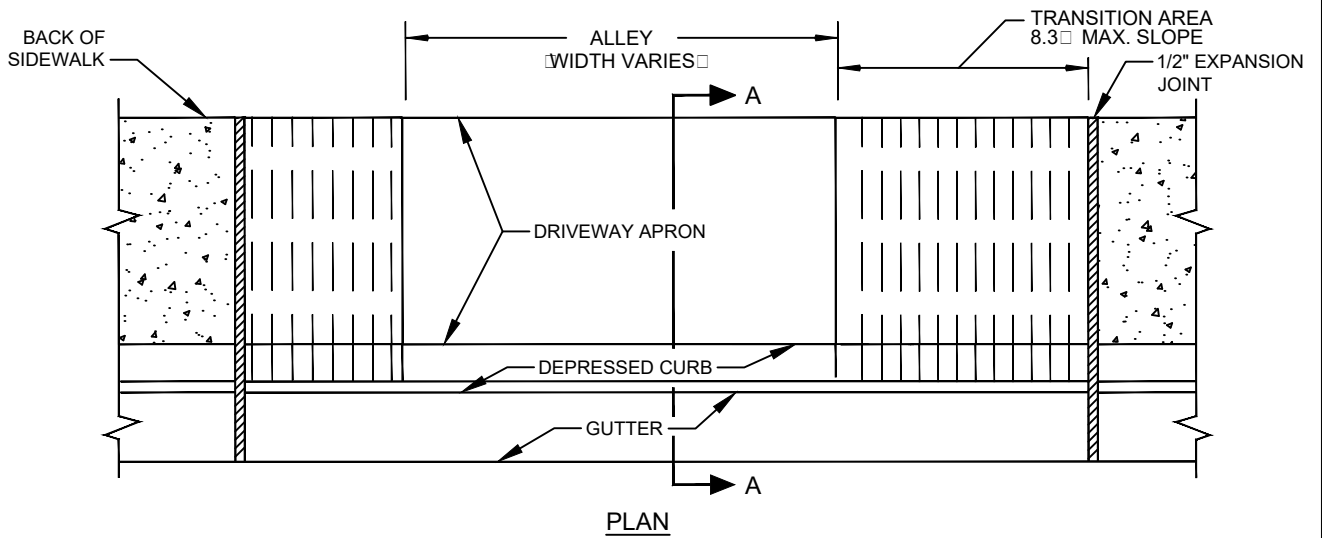
NOTES

1. SEPARATION OF PEDESTRIAN AND VEHICLE TRAFFIC MUST BE MAINTAINED ON SITE.
2. FOR GRADE CHANGES GREATER THAN 3%, VERTICAL CURVES OF AT LEAST 10 FEET MUST BE USED.
3. CURB RAMPS SHALL BE CONSTRUCTED IN THE CURB RETURN IN ACCORDANCE WITH STANDARD DRAWING NO. 235.
4. WHERE A PEDESTRIAN ACCESS ROUTE CROSSES A DRIVEWAY, THE PEDESTRIAN ACCESS ROUTE ACROSS THE DRIVEWAY SHALL HAVE A CROSS SLOPE NO GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
COMMERCIAL AND INDUSTRIAL DRIVEWAY (OPTION B)	
DATE 05-21-20	DWG. NO. 225

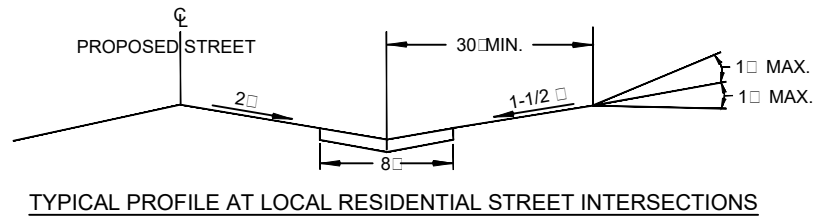
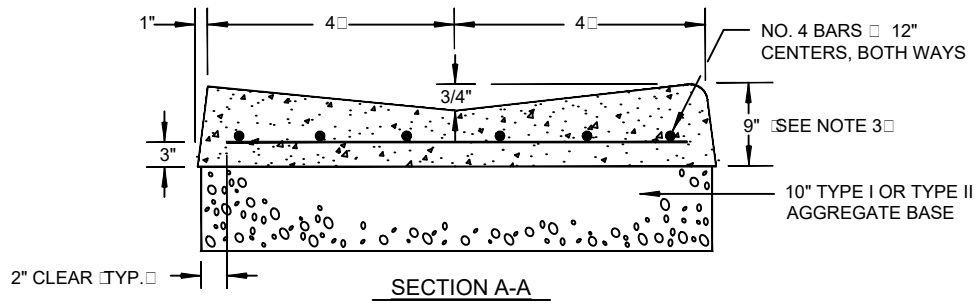
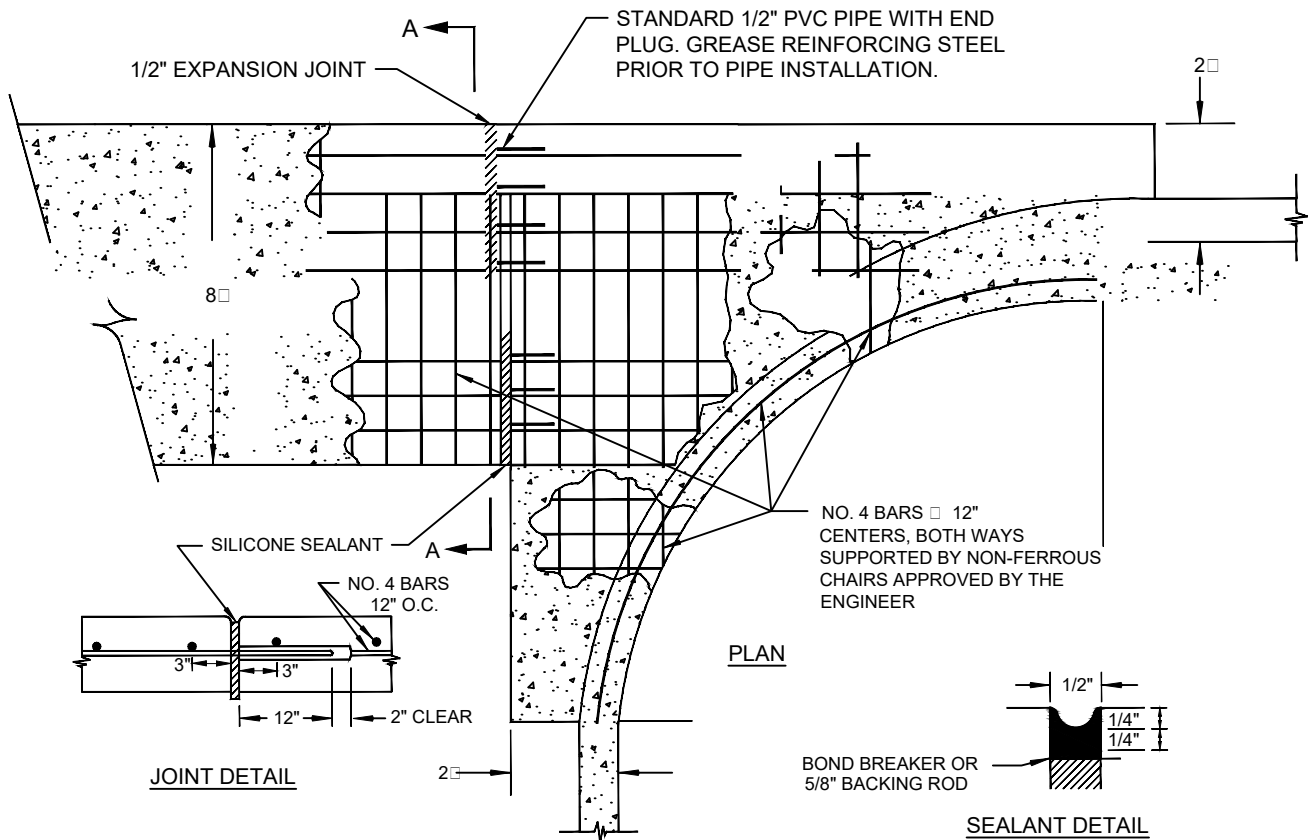


NOTES

1. NO. 4 BARS AT 1" O.C. BOTH WAYS CONTINUOUS THROUGH GUTTER. NO. 4 BARS SHALL BE PLACED 3" ABOVE BOTTOM OF CONCRETE.
2. WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER. DRIVEWAY SHALL BE MONOLITHIC TO A.C. LINE.
3. DRIVEWAY THICKNESS SHALL BE 8" MIN.
4. PEDESTRIAN ACCESS ROUTES SHALL HAVE A CROSS SLOPE NO GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.
5. THE RUNNING SLOPE AND LENGTH OF TRANSITION WITHIN THE PEDESTRIAN ACCESS ROUTE SHALL BE MAXIMUM DIMENSIONS, REGARDLESS OF CONSTRUCTION TOLERANCES.

AGENCY APPROVED	B	C	H	L	N	R
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SUPPLEMENTAL DRAWING						
DEPRESSED ALLEY DRIVEWAY						
DATE 05-21-20	DWG. NO. 227.S1					

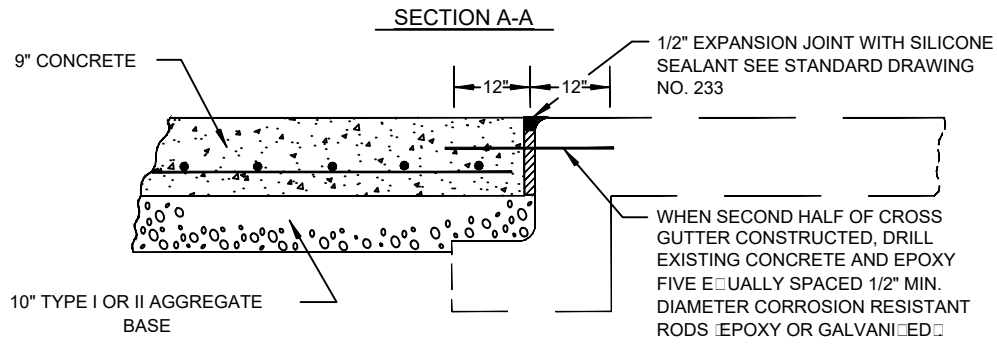
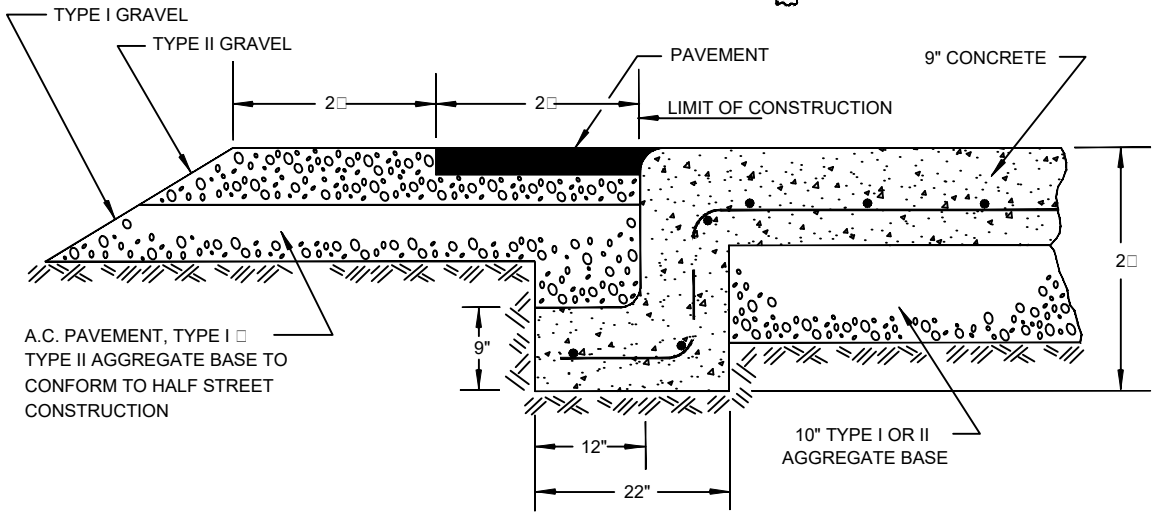
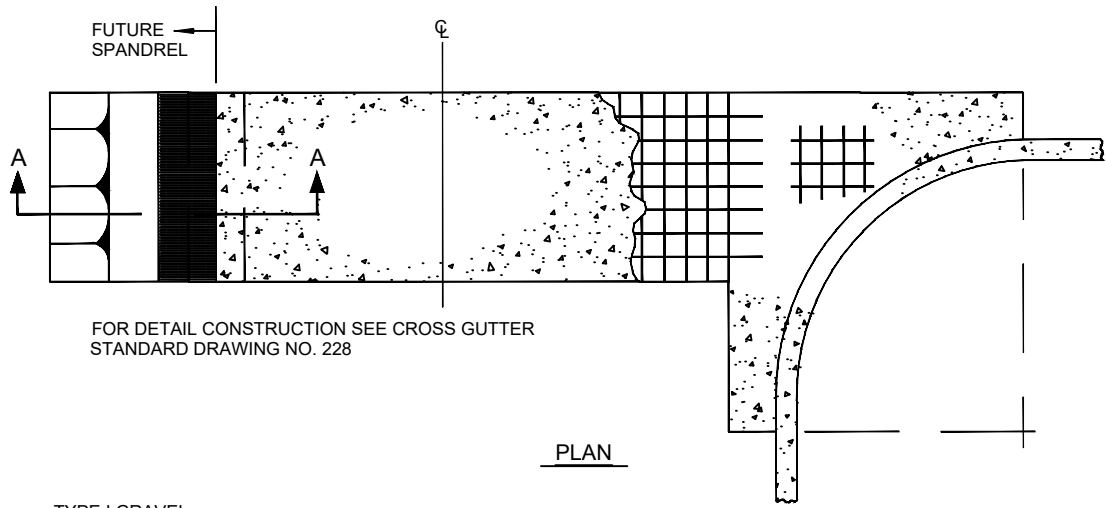
Effective 10/08/2020 to 12/09/2020



- NOTES**
1. FINISHED ASPHALT CONCRETE SURFACE TO BE FLUSH WITH CROSS GUTTER LIP.
 2. CONSTRUCTION OF CROSS GUTTER IS NOT ALLOWED ACROSS MAJOR COLLECTOR OR ARTERIAL STREETS.
 3. ADJACENT SPANDREL SHALL BE 9" THICK P.C.C.

AGENCY APPROVED		B	C	H	L	M	N	R
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE	CROSS GUTTER						
501	CONCRETE							
502	CONCRETE STRUCTURES							
505	REINFORCING STEEL							
707	EXPANSION JOINT MATERIAL							
TT-S-00153A CLASS A SEALANT		DATE	08-08-19	DWG. NO.	228			

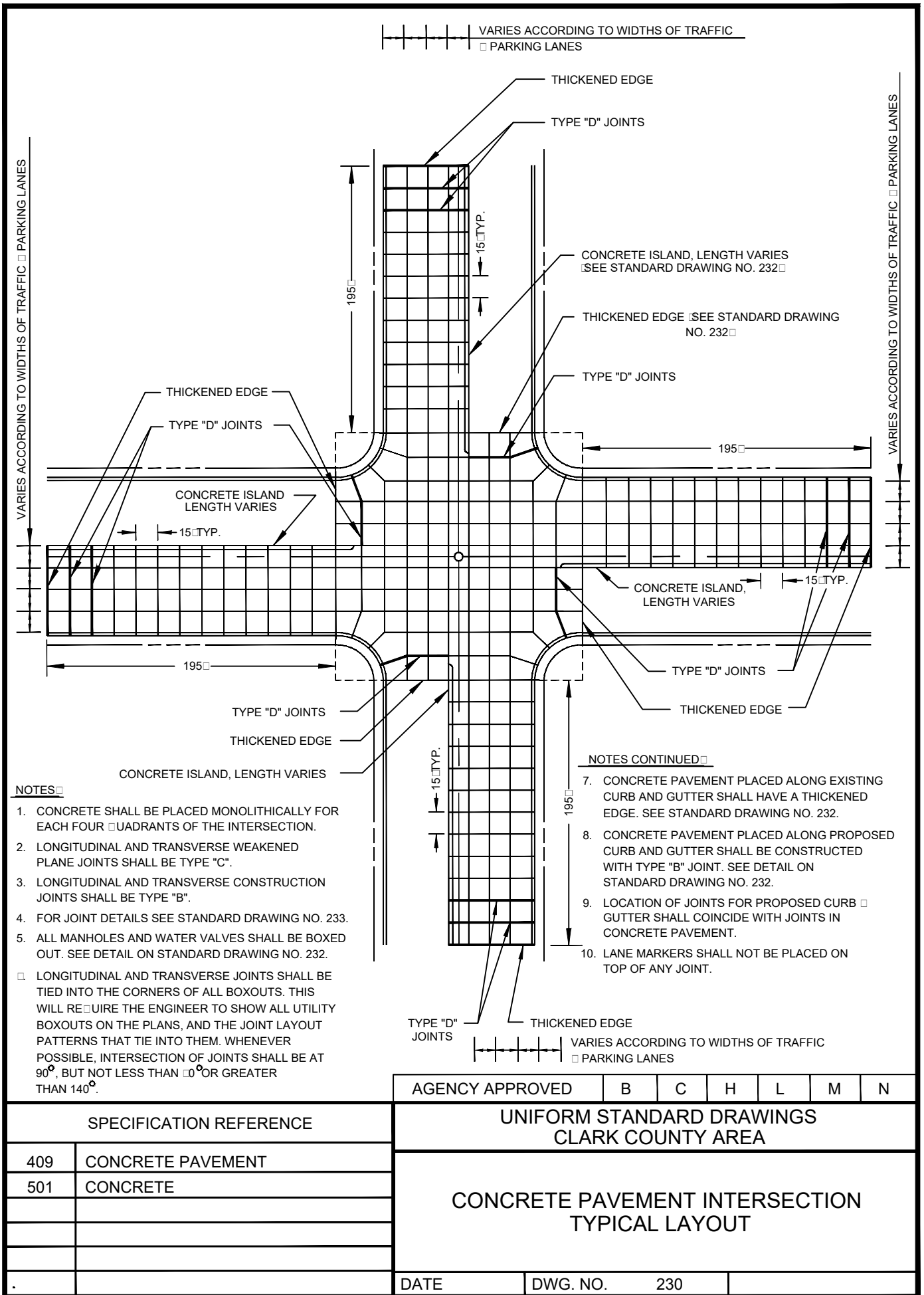
Effective 10/08/2020 to 12/09/2020



Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED					
		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
302	AGGREGATE BASE	HALF STREET CROSS GUTTER					
501	CONCRETE						
502	CONCRETE STRUCTURES						
505	REINFORCING STEEL						
707	EXPANSION JOINT MATERIAL						
TT-S-00153A CLASS A SEALANT		DATE	DWG. NO.	229			

Effective 10/08/2020 to 12/09/2020



NOTES

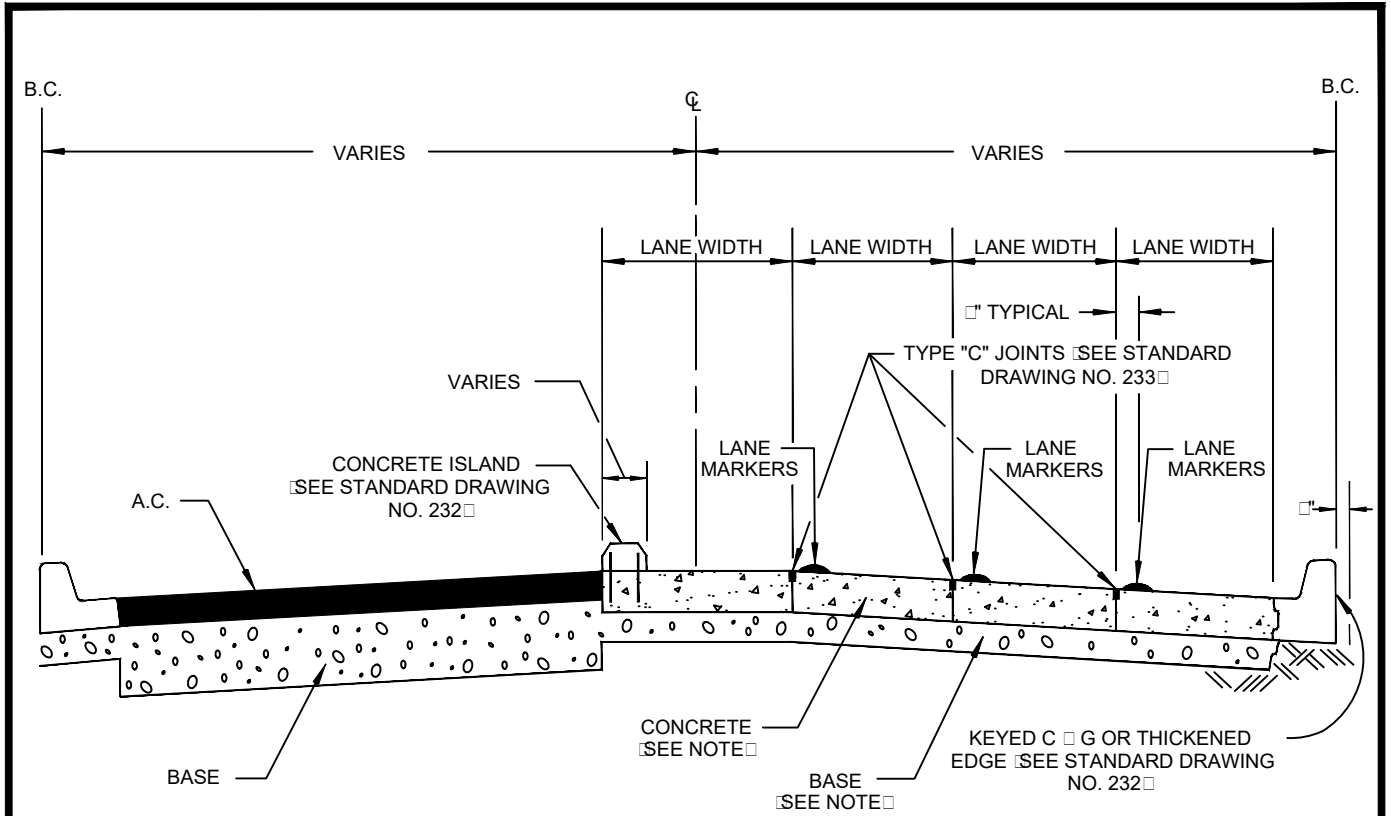
1. CONCRETE SHALL BE PLACED MONOLITHICALLY FOR EACH FOUR QUADRANTS OF THE INTERSECTION.
2. LONGITUDINAL AND TRANSVERSE WEAKENED PLANE JOINTS SHALL BE TYPE "C".
3. LONGITUDINAL AND TRANSVERSE CONSTRUCTION JOINTS SHALL BE TYPE "B".
4. FOR JOINT DETAILS SEE STANDARD DRAWING NO. 233.
5. ALL MANHOLES AND WATER VALVES SHALL BE BOXED OUT. SEE DETAIL ON STANDARD DRAWING NO. 232.
6. LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE TIED INTO THE CORNERS OF ALL BOXOUTS. THIS WILL REQUIRE THE ENGINEER TO SHOW ALL UTILITY BOXOUTS ON THE PLANS, AND THE JOINT LAYOUT PATTERNS THAT TIE INTO THEM. WHENEVER POSSIBLE, INTERSECTION OF JOINTS SHALL BE AT 90°, BUT NOT LESS THAN 30° OR GREATER THAN 140°.

NOTES CONTINUED

7. CONCRETE PAVEMENT PLACED ALONG EXISTING CURB AND GUTTER SHALL HAVE A THICKENED EDGE. SEE STANDARD DRAWING NO. 232.
8. CONCRETE PAVEMENT PLACED ALONG PROPOSED CURB AND GUTTER SHALL BE CONSTRUCTED WITH TYPE "B" JOINT. SEE DETAIL ON STANDARD DRAWING NO. 232.
9. LOCATION OF JOINTS FOR PROPOSED CURB AND GUTTER SHALL COINCIDE WITH JOINTS IN CONCRETE PAVEMENT.
10. LANE MARKERS SHALL NOT BE PLACED ON TOP OF ANY JOINT.

SPECIFICATION REFERENCE	
409	CONCRETE PAVEMENT
501	CONCRETE

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
CONCRETE PAVEMENT INTERSECTION TYPICAL LAYOUT						
DATE	DWG. NO.	230				

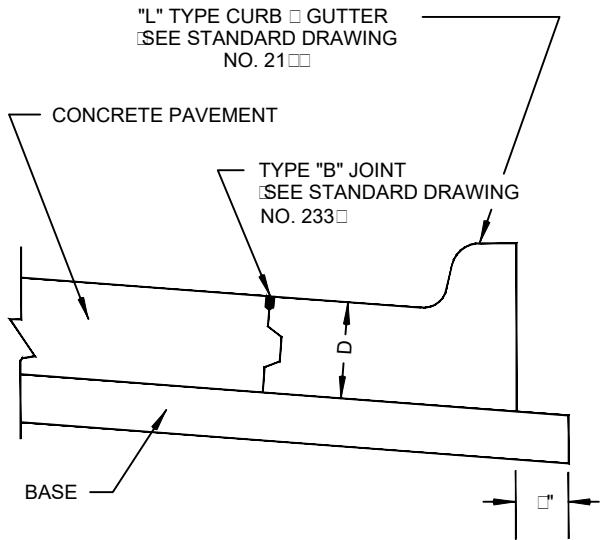


NOTE

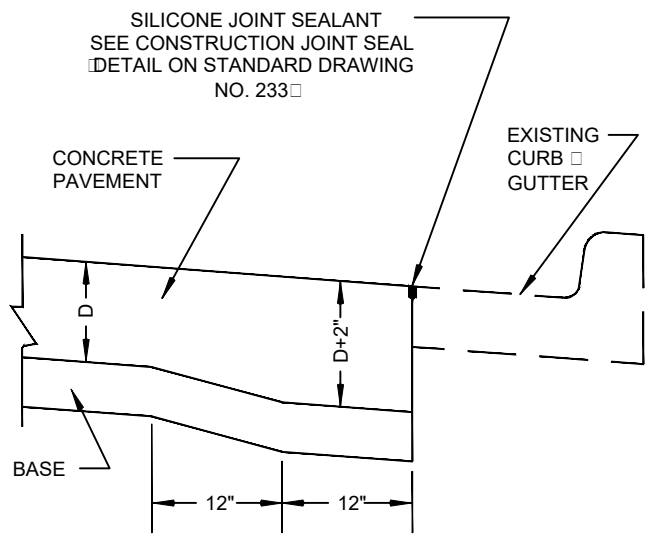
CONCRETE AND BASE THICKNESS TO BE DETERMINED BY ENGINEERING ANALYSIS BASED ON TRAFFIC CONDITIONS, SUBGRADE STRENGTH, QUALITY OF BASE, AND FLEXURAL STRENGTH OF CONCRETE.

Effective 10/08/2020 to 12/09/2020

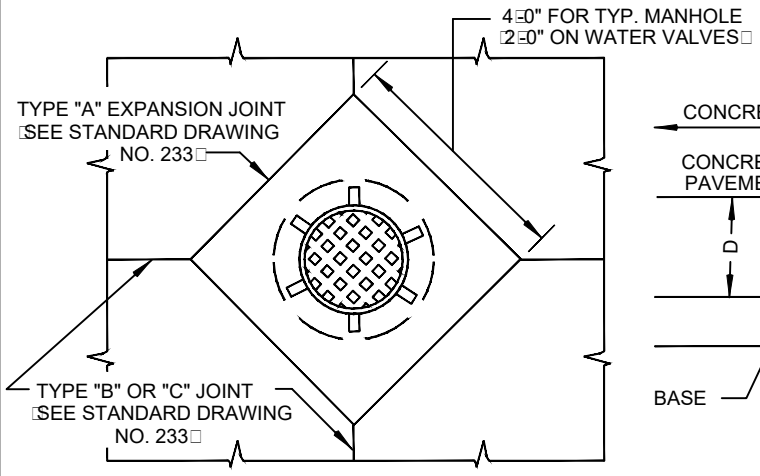
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE	CONCRETE PAVEMENT TYPICAL ROADWAY SECTION						
409	CONCRETE PAVEMENT							
501	CONCRETE							
33	PAVEMENT MARKERS							
707	JOINT MATERIAL							
		DATE	DWG. NO.		231			



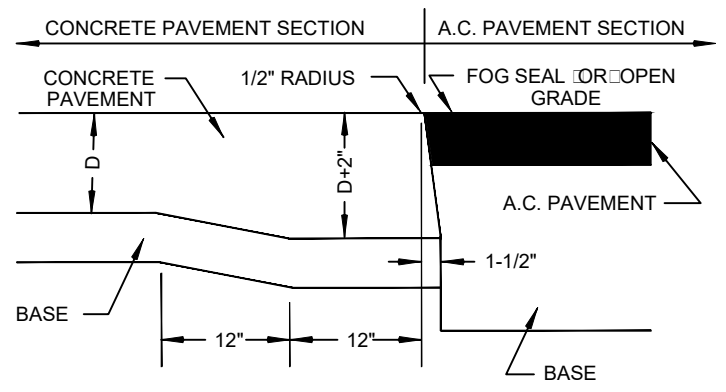
**CURB & GUTTER JOINT DETAIL
PROPOSED CURB & GUTTER**



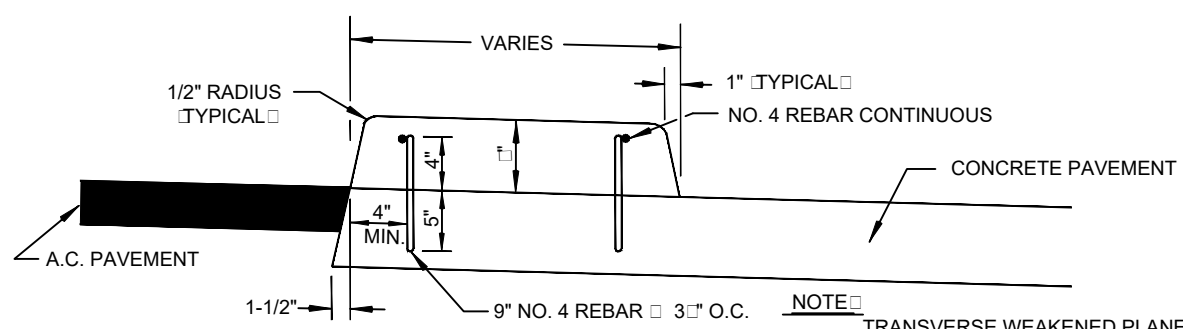
**CURB & GUTTER JOINT DETAIL
EXISTING CURB & GUTTER**



BOXOUT DETAIL



THICKENED EDGE DETAIL

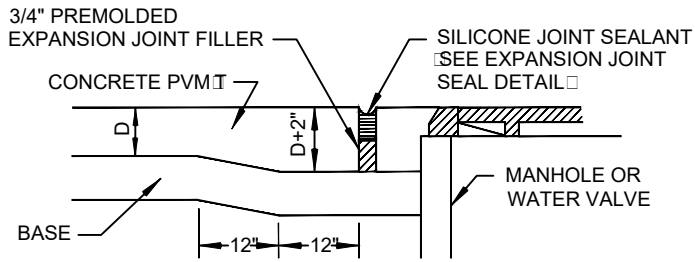


TACK ON CONCRETE ISLAND DETAIL

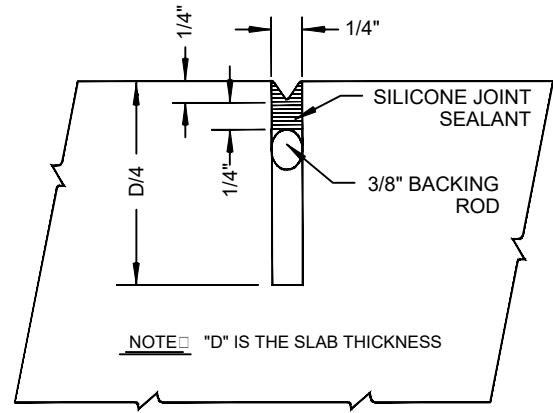
NOTE
TRANSVERSE WEAKENED PLANE JOINTS
TO MATCH JOINTS IN CONCRETE PAVEMENT
SEE DETAIL STANDARD DRAWING NO. 234

Effective 10/08/2020 to 12/09/2020

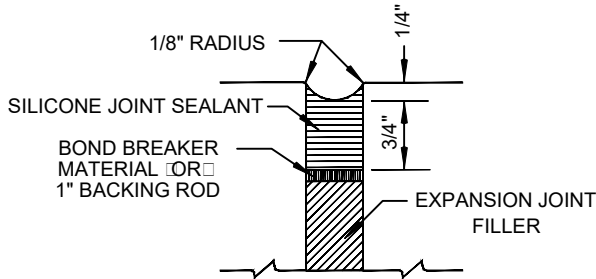
SPECIFICATION REFERENCE		AGENCY APPROVED					
409	CONCRETE PAVEMENT	B	C	H	L	M	N
501	CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
505	REINFORCING STEEL						
TT-S-00153A CLASS A SEALANT							
		CONCRETE PAVEMENT CONSTRUCTION DETAILS					
DATE	DWG. NO.						



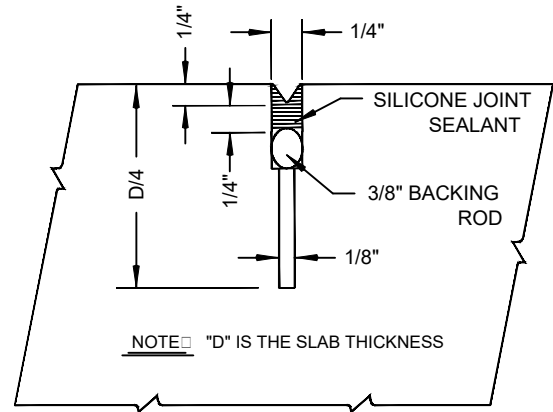
**TYPE "A" EXPANSION JOINT DETAIL
BOXOUT**



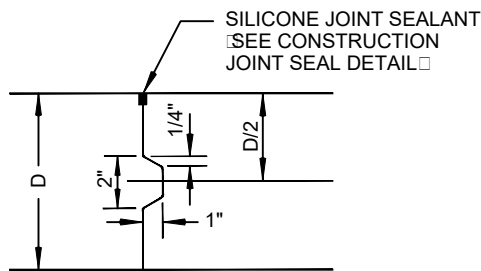
**TYPE "C" WEAKENED PLANE JOINT DETAIL
SINGLE SAW-CUT**



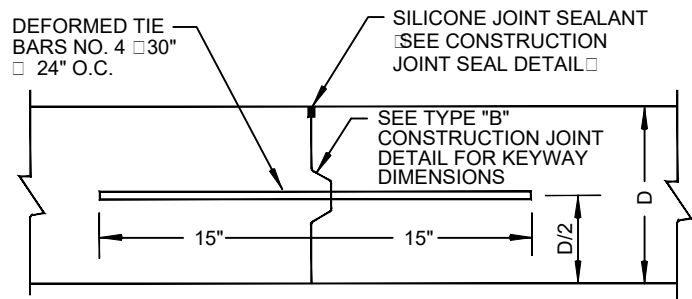
EXPANSION JOINT SEAL DETAIL



**TYPE "C" WEAKENED PLANE JOINT DETAIL
DOUBLE SAW-CUT**



**TYPE "B" CONSTRUCTION JOINT DETAIL
KEYWAY**



TYPE "D" TIED CONSTRUCTION JOINT DETAIL

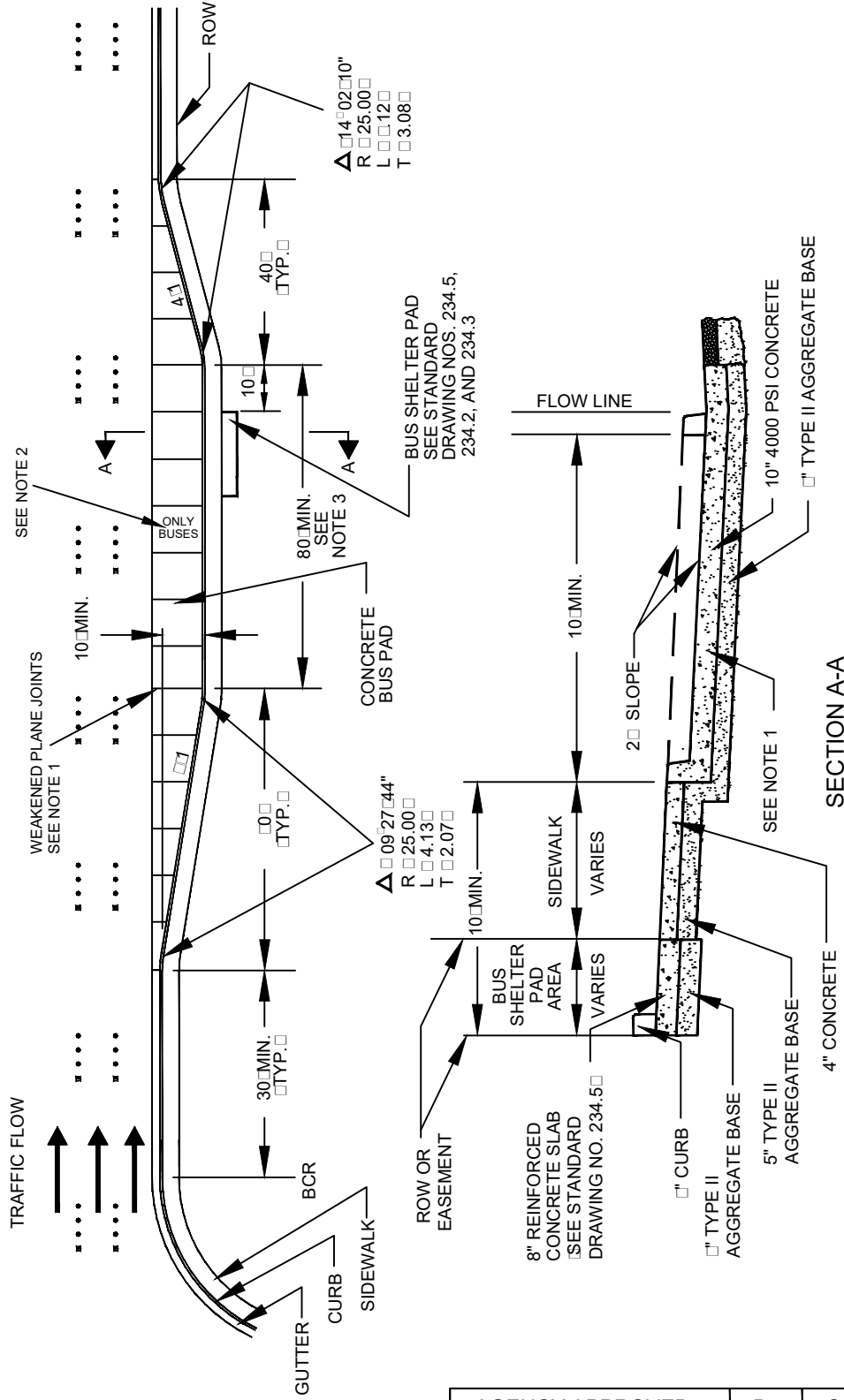
CONSTRUCTION JOINT SEAL DETAIL

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
409	CONCRETE PAVEMENT
707	JOINT MATERIAL TT-S-00153A CLASS A SEALANT

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
CONCRETE PAVEMENT JOINT DETAILS	
DATE	DWG. NO. 233

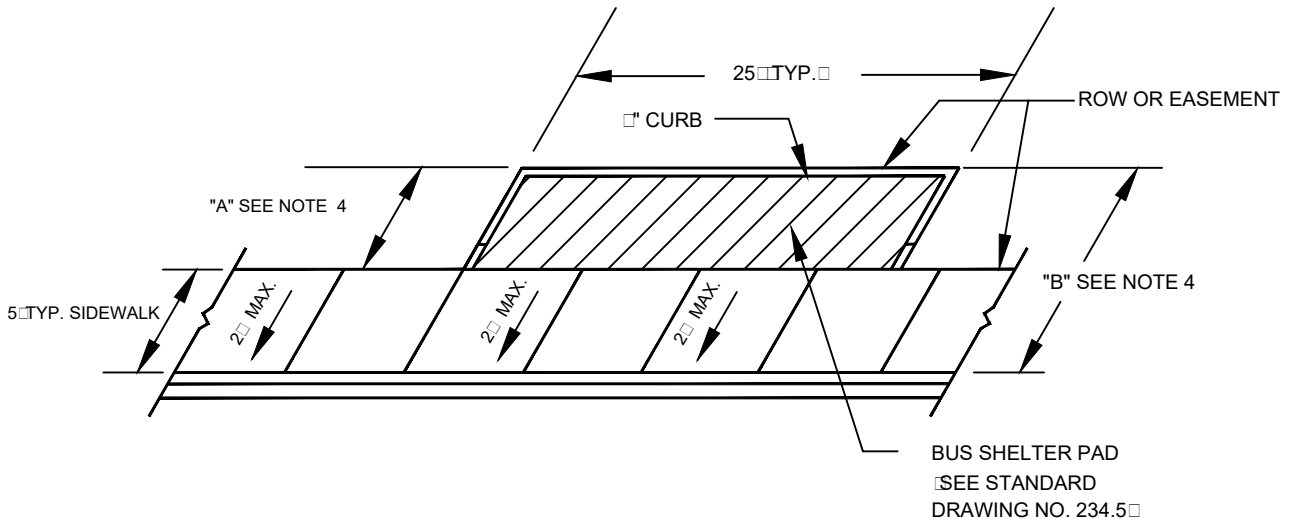
Effective 10/08/2020 to 12/09/2020




SECTION A-A

- NOTES
1. CONCRETE BUS PAD SHALL BE MONOLITHIC. TRANSVERSE WEAKENED PLANE JOINTS SHALL BE INSTALLED AT 10' INTERVALS AND AS DETAILED IN STANDARD DRAWING NO. 233, TYPE "C".
 2. A MINIMUM OF ONE SET OF PAVEMENT MARKINGS CONTAINING THE "BUSES ONLY" SYMBOL SHALL BE PLACED IN THE TURN-OUT AREA. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
 3. ADDITIONAL STORAGE AREA WILL BE REQUIRED WHEN MORE THAN ONE BUS IS EXPECTED TO OCCUPY THE TURN-OUT AT THE SAME TIME.
 4. ALTERNATE CONCRETE AND BASE THICKNESS MAY BE SUBSTITUTED, BUT MUST BE SUPPORTED BY ENGINEERING ANALYSIS AND APPROVED BY THE ENGINEER.
 5. TURN-OUT SURFACE SHALL BE TEXTURED IN ACCORDANCE WITH UNIFORM STANDARD SPECIFICATION NO. 409.03.08. FLOW LINE SHALL NOT BE TEXTURED, BUT SHALL BE A TROWELED SURFACE.

SPECIFICATION REFERENCE		AGENCY APPROVED					
302	AGGREGATE BASE	B	C	H	L	M	N
501	CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
502	CONCRETE STRUCTURES						
		TYPICAL BUS TURN-OUT					
DATE 07-01-1		DWG. NO.		234.1			



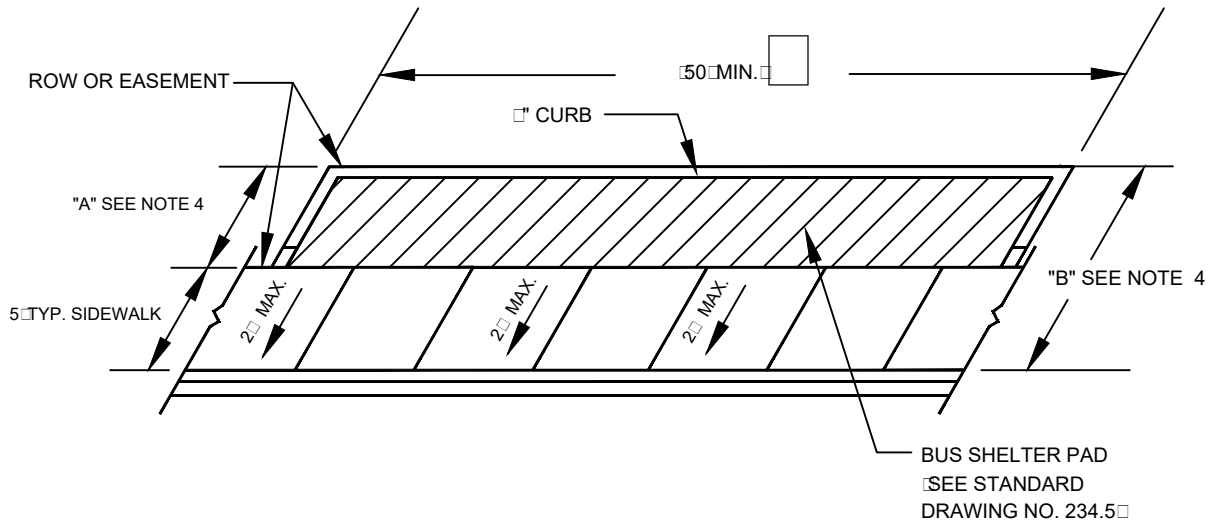
 ADDITIONAL AREA REQUIRED BEHIND TYPICAL 5 FT. SIDEWALK FOR BUS SHELTER PAD



NOTES

1. SIDEWALK MAY BE REQUIRED TO BE CONSTRUCTED IN THOSE LOCATIONS WHERE THE BUS STOP WOULD OTHERWISE BE INACCESSIBLE AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT. SEE DRAWING NO. 235, SHEET 4 OF 4 FOR SIDEWALK RAMP DETAILS.
2. ADDITIONAL RIGHT-OF-WAY OR EASEMENT IS REQUIRED FOR BUS SHELTER PAD AND VARIABLE HEIGHT CURB AT BACK OF SIDEWALK RAMP AND SHALL BE DEDICATED TO THE LOCAL ENTITY.
3. BUS SHELTER PAD CONNECTION TO DETACHED SIDEWALK CONDITION SHALL BE DETERMINED BY THE ENTITIES.
4. "A" \square 10" "B" \square 15" UNLESS BUS TURNOUT IS CONSTRUCTED PER STANDARD DRAWINGS 234.1 OR 234.4, THEN "A" \square 5" "B" \square 10"
5. A 5" \square 25" BUS SHELTER PAD BEHIND THE SIDEWALK WHERE NECESSARY MAY BE ALLOWED AS APPROVED BY THE RTC.
- PEDESTRIAN ACCESS ROUTE SHALL HAVE A CROSS SLOPE OF NO GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.
7. PARALLEL TO THE STREET OR HIGHWAY, THE GRADE OF THE BOARDING AND ALIGHTING AREA SHALL BE THE SAME AS THE STREET OR HIGHWAY, TO THE EXTENT PRACTICAL. PERPENDICULAR TO THE STREET OR HIGHWAY, THE GRADE OF THE BOARDING AND ALIGHTING AREA SHALL NOT BE STEEPER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N	R
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
302	AGGREGATE BASE	TYPICAL BUS STOP PASSENGER LOADING WITH SHELTER PADS							
501	CONCRETE								
502	CONCRETE STRUCTURES								
		DATE 01-09-20	DWG. NO. 234.2						



-  ADDITIONAL AREA REQUIRED BEHIND TYPICAL 5 FT. SIDEWALK FOR BUS SHELTER PAD
-  ADDITIONAL 25 FEET MAY BE REQUIRED BY RTC.

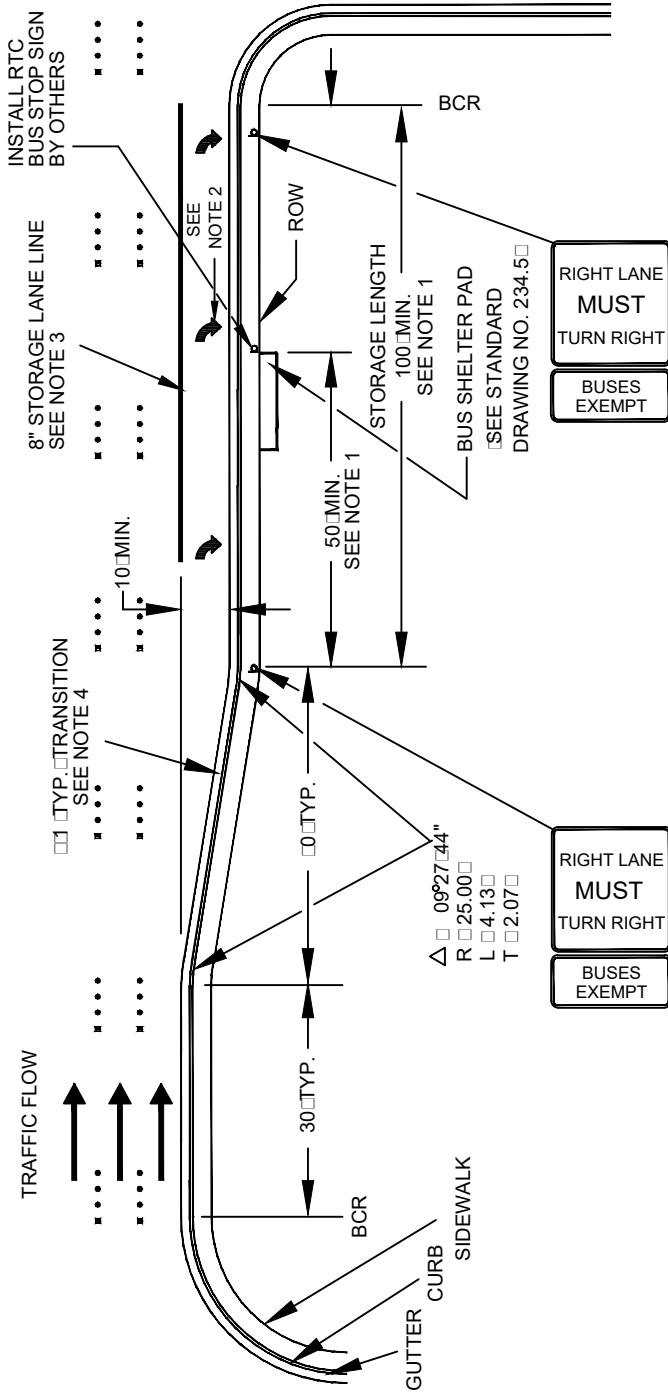
NOTES

1. SIDEWALK MAY BE REQUIRED TO BE CONSTRUCTED IN THOSE LOCATIONS WHERE THE BUS STOP WOULD OTHERWISE BE INACCESSIBLE AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT. SEE DRAWING NO. 235, SHEET 4 OF 4 FOR SIDEWALK RAMP DETAILS.
2. ADDITIONAL RIGHT-OF-WAY OR EASEMENT IS REQUIRED FOR BUS SHELTER PAD AND VARIABLE HEIGHT CURB AT BACK OF SIDEWALK RAMP AND SHALL BE DEDICATED TO THE LOCAL ENTITY.
3. BUS SHELTER PAD CONNECTION TO DETACHED SIDEWALK CONDITION SHALL BE DETERMINED BY THE ENTITIES.
4. "A" \geq 10' "B" \geq 15' UNLESS BUS TURNOUT IS CONSTRUCTED PER STANDARD DRAWINGS 234.1 OR 234.4, THEN "A" \geq 5' "B" \geq 10'
5. A 5' \times 50' BUS SHELTER PAD BEHIND THE SIDEWALK WHERE NECESSARY MAY BE ALLOWED AS APPROVED BY THE RTC.
 - PEDESTRIAN ACCESS ROUTE SHALL HAVE A CROSS SLOPE OF NO GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.
7. PARALLEL TO THE STREET OR HIGHWAY, THE GRADE OF THE BOARDING AND ALIGHTING AREA SHALL BE THE SAME AS THE STREET OR HIGHWAY, TO THE EXTENT PRACTICAL. PERPENDICULAR TO THE STREET OR HIGHWAY, THE GRADE OF THE BOARDING AND ALIGHTING AREA SHALL NOT BE STEEPER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	C	H	L	M	N	R
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE	TYPICAL DOUBLE BUS STOP PASSENGER LOADING WITH SHELTER PADS						
501	CONCRETE							
502	CONCRETE STRUCTURES							
		DATE 01-09-20		DWG. NO. 234.3				

COMMERCIAL DRIVEWAY
INTO PROPERTY



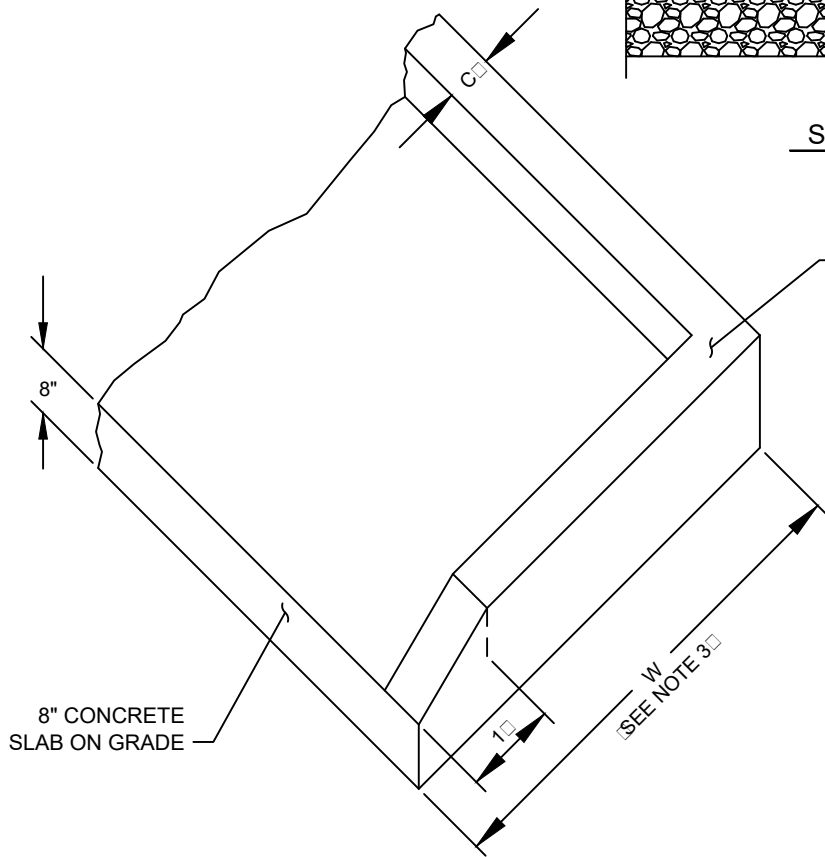
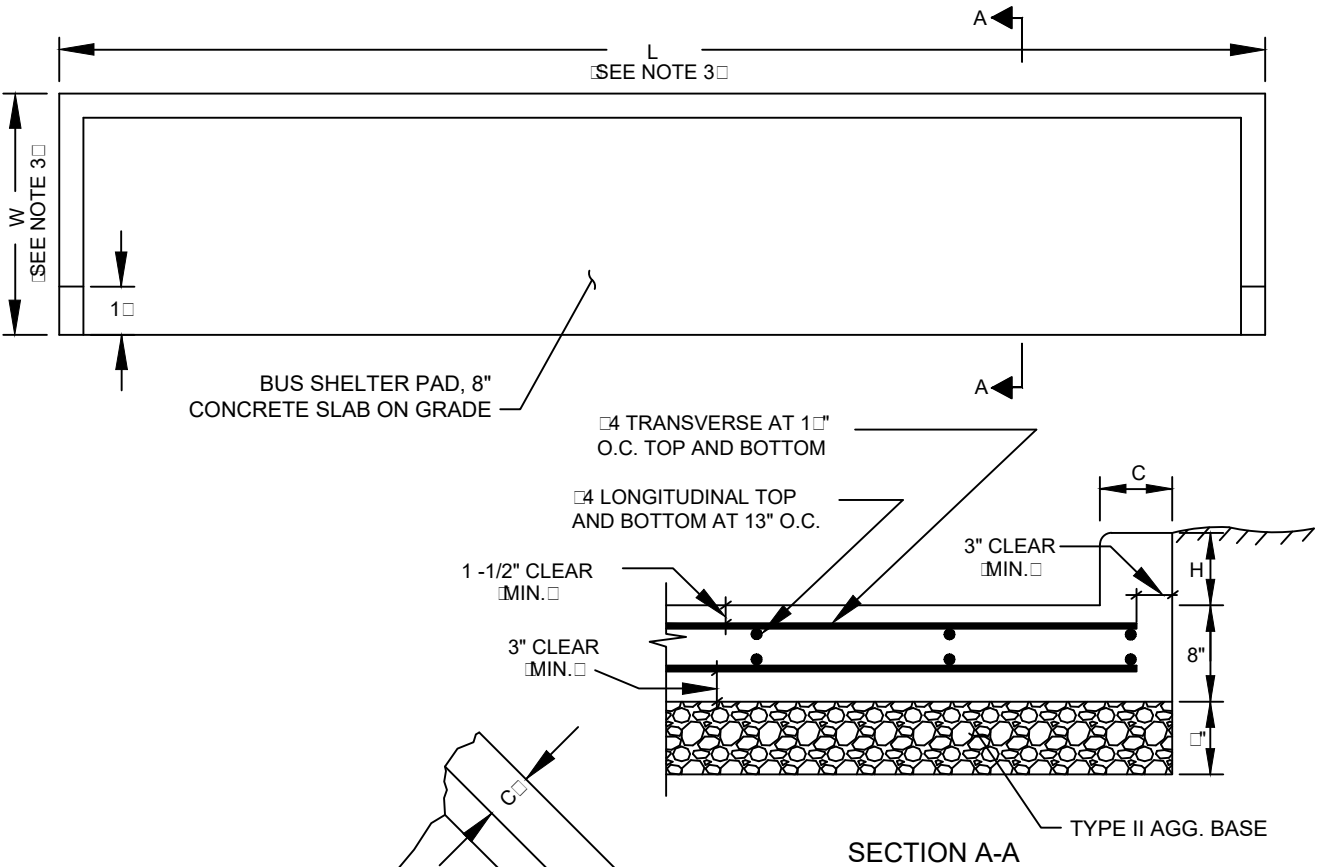
NOTES

1. IF ARTICULATED BUSES ARE EXPECTED TO SERVICE BUS STOP, DISTANCE FROM END OF ENTRY TAPER TO THE END OF THE BUS STOP LOADING PAD SHALL BE INCREASED TO 70 FT. MIN. AND THE RIGHT TURN STORAGE LANE LENGTH SHALL BE INCREASED TO 120 FT. MIN.
2. WHERE ADDITIONAL MOTORIST GUIDANCE IS DEEMED NECESSARY BY THE ENGINEER, INSTALL ARROW AND "ONLY" SYMBOL PAVEMENT MARKINGS FOR THE LENGTH OF THE STORAGE LINE. SYMBOLS SHALL BE APPROVED TYPE II PAVEMENT MARKING FILM.
3. STORAGE LANE LINE SHALL BE APPROVED TYPE I PAVEMENT MARKING FILM, OR IF APPROVED BY THE ENGINEER, RAISED PAVEMENT MARKERS MAY BE USED.
4. REVERSE CURVE TRANSITION MAY BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
302	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES
28	PAINTING TRAFFIC STRIPING, PAVEMENT MARKINGS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
BUS STOP PLACEMENT WITHIN EXCLUSIVE RIGHT TURN LANE FOR COMMERCIAL PROPERTIES	
DATE 07-01-1	DWG. NO. 234.4

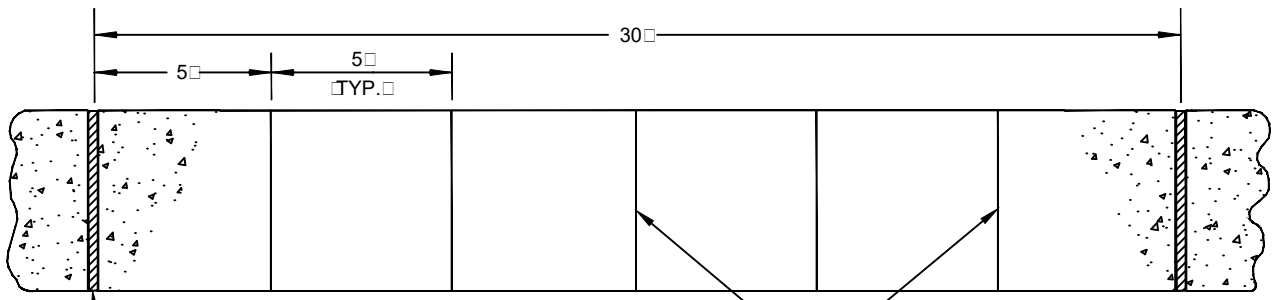


- C CURB, SIDE AND BACK OF BUS SHELTER PAD
- NOTES**
1. MINIMUM 28 DAY CONCRETE STRENGTH 4500 PSI.
 2. LAP SPLICES OF REINFORCING STEEL SHALL BE 24". STAGGER LAP SPLICES A MINIMUM OF ONE LAP LENGTH.
 3. L, W, H, AND C PER PLAN.
 4. PARALLEL TO THE STREET OR HIGHWAY, THE GRADE OF THE BOARDING AND ALIGHTING AREA SHALL BE THE SAME AS THE STREET OR HIGHWAY, TO THE EXTENT PRACTICAL. PERPENDICULAR TO THE STREET OR HIGHWAY, THE GRADE OF THE BOARDING AND ALIGHTING AREA SHALL NOT BE GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.

ISOMETRIC

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N	R
302	AGGREGATE BASE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
501	CONCRETE								
502	CONCRETE STRUCTURES	BUS SHELTER PAD DETAILS AND NOTES							
		DATE 01-09-20	DWG. NO. 234.5						

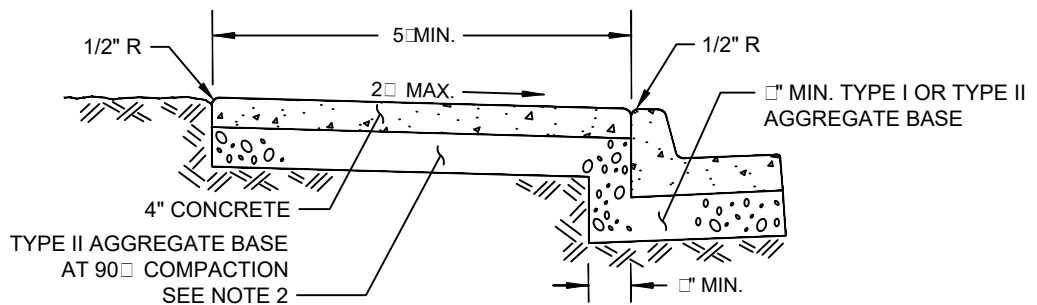
Effective 10/08/2020 to 12/09/2020



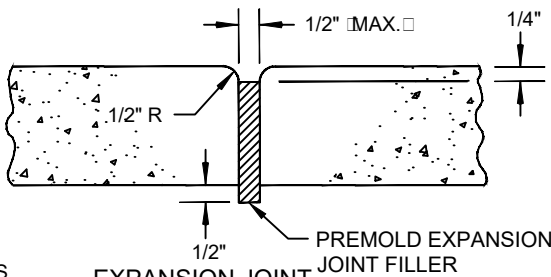
1/2" EXPANSION JOINT AT 30' INTERVALS, AT COLD JOINTS AND AT BEGINNING AND END OF RETURN.
EXPANSION JOINTS TO MATCH LOCATION MATCH LOCATION OF CURB AND GUTTER EXPANSION JOINT.

PLAN

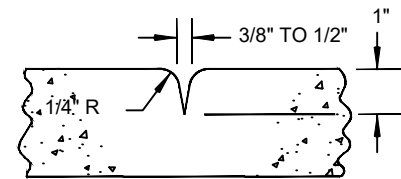
PREMOLD EXPANSION JOINT FILLER



TYPICAL SECTION



EXPANSION JOINT



WEAKENED PLANE JOINT TOOL CUT

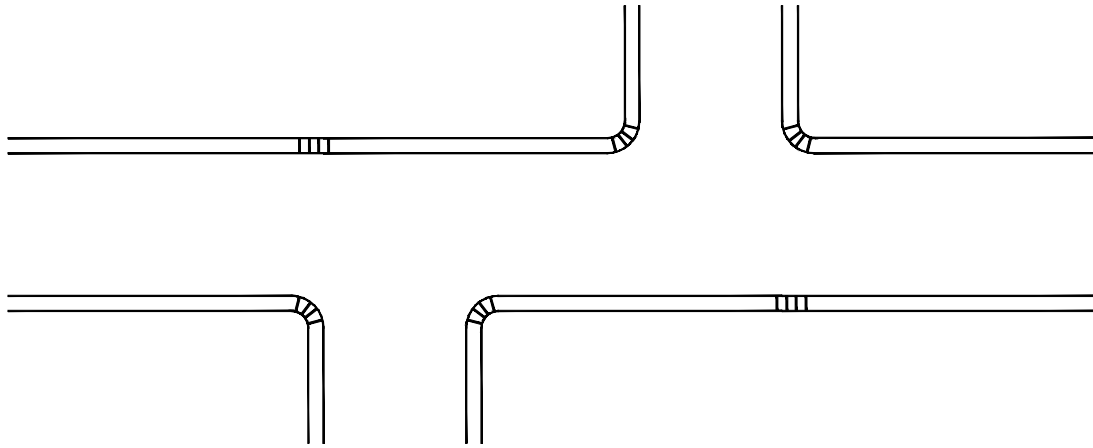
NOTES

1. ON ALL CURB RETURNS A 1/2" EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE BACK OF CURB AND THE SIDEWALK FOR THE ENTIRE LENGTH OF THE RETURN.
 2. THE TYPE II AGGREGATE BASE THICKNESS IS SHOWN ON THE TYPICAL SECTION DRAWINGS 202 - 207.
 3. LONGITUDINAL WEAKENED PLANE JOINT REQUIRED AT MIDPOINT OF SIDEWALK 10' OR WIDER.
 4. WHEN INSTALLED WITHIN THE ROW, SIDEWALK GRADE IS PERMITTED TO EQUAL THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY.
 5. OBJECTS WITH LEADING EDGES MORE THAN 2.25 FT. AND NOT MORE THAN 7 FT. ABOVE FINISH SURFACE SHALL PROTRUDE 4 IN. MAXIMUM HORIZONTALLY INTO PEDESTRIAN CIRCULATION PATH. THE MINIMUM HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF SIDEWALK, OF SIGNS INSTALLED ABOVE SIDEWALKS, SHALL BE 7 FT.
- PEDESTRIAN ACCESS ROUTE SHALL HAVE A CROSS SLOPE OF NO GREATER THAN 2%, REGARDLESS OF CONSTRUCTION TOLERANCES.

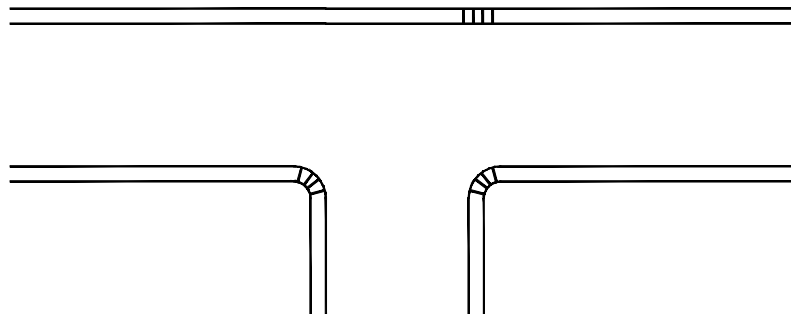
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
302	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES
707	JOINT MATERIAL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SIDEWALK	
DATE 01-09-20	DWG. NO. 234



OFFSET "T"



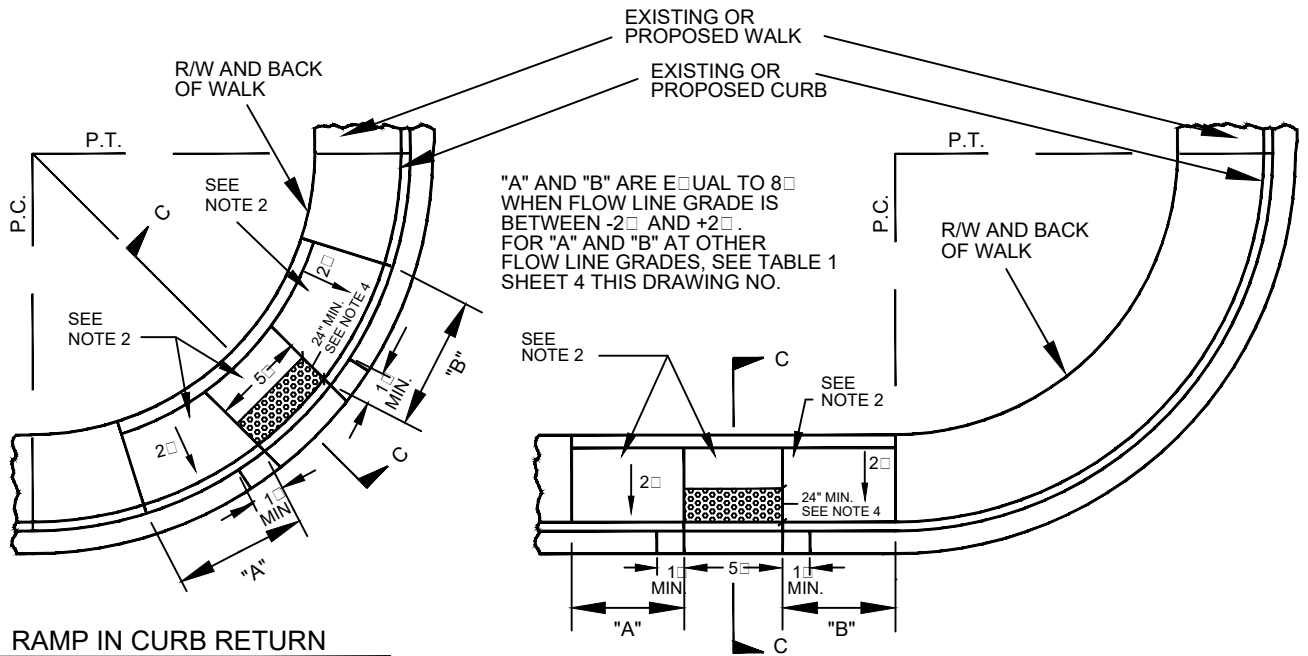
ISOLATED "T"

NOTES

1. THE TYPICAL LOCATIONS OF SIDEWALK RAMPS SHOWN ABOVE ARE INTENDED TO MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). AT LEAST ONE SIDEWALK RAMP SHALL BE CONSTRUCTED OPPOSITE THE INTERSECTING ROADWAY. ADDITIONAL SIDEWALK RAMPS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A CONTINUOUS UNOBSTRUCTED PEDESTRIAN CIRCULATION PATH AS DEFINED BY THE ADA.
2. SIDEWALK RAMP LOCATIONS SHOWN ARE FOR INTERSECTIONS WITH UNMARKED CROSSWALKS. IF A PEDESTRIAN CROSSING AREA IS MARKED, SIDEWALK RAMPS SHALL BE LOCATED WITHIN THE MARKED CROSSWALKS AS APPROVED BY THE ENGINEER.

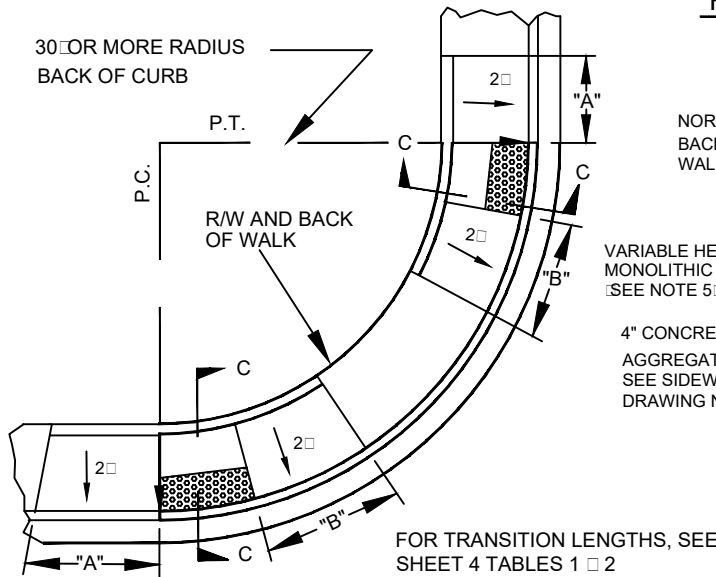
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SIDEWALK RAMP LOCATION "T" INTERSECTIONS						
		DATE	13-9	DWG. NO.	235.1			

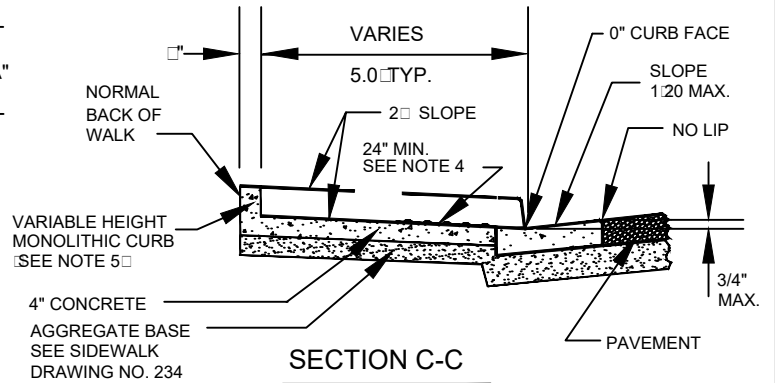


RAMP IN CURB RETURN

RAMP OUTSIDE CURB RETURN



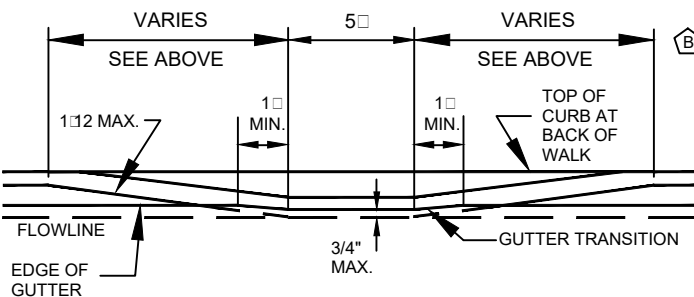
PAIRED RAMP IN CURB RETURN



SECTION C-C

NOTES

1. SIDEWALK RAMPS OUTSIDE OF THE CURB RETURN SHALL BE LOCATED ADJACENT TO THE RETURN UNLESS OTHERWISE APPROVED.
2. RAMPS SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
3. WHEN CONSTRUCTING RAMP WHERE CURB OR GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB OR GUTTER.
4. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WHICH COMPLY WITH DETAILS ON SHEET 4 OF THIS DRAWING NO. AND CONTRASTING VISUALLY WITH ADJOINING SURFACES SHALL BE PLACED ON BOTTOM PORTION OF RAMP EXTENDING THE FULL WIDTH OF THE RAMP AND TO A MINIMUM DEPTH OF 24 INCHES. PAVER BLOCKS PERMITTED ONLY IN THE CITY OF BOULDER CITY FOR DETECTABLE WARNING AREAS.
5. CURB MAY BE PLACED AND IS PREFERRED BEHIND BACK OF WALK IF SUFFICIENT RIGHT-OF-WAY OR EASEMENTS EXIST AND AS APPROVED BY THE ENGINEER.



PROFILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

302	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES

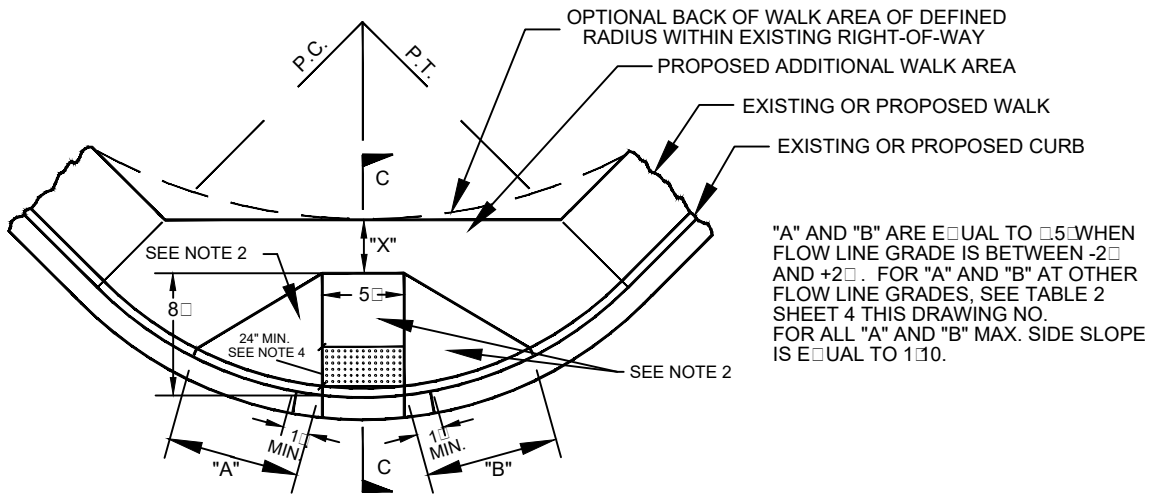
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIDEWALK RAMP
CASE I

DATE 11-8-07

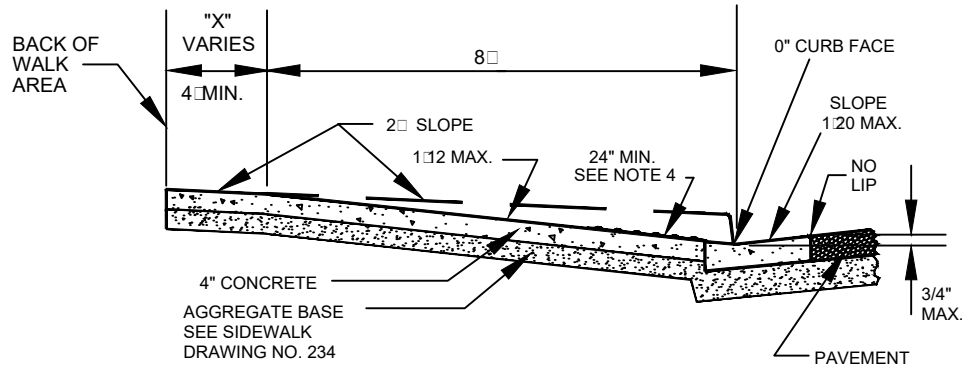
DWG. NO. 235

SHEET 1 OF 4

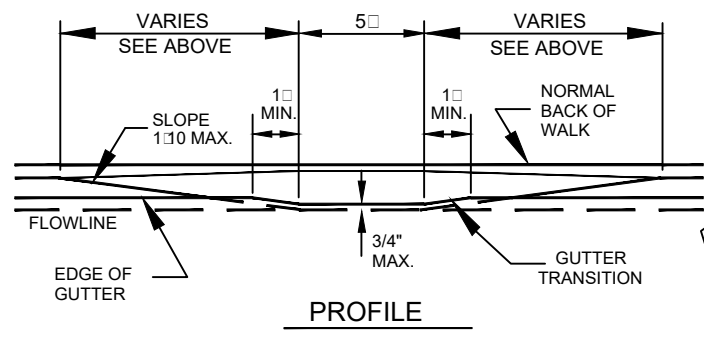


"A" AND "B" ARE EQUAL TO 5' WHEN FLOW LINE GRADE IS BETWEEN -2% AND +2%. FOR "A" AND "B" AT OTHER FLOW LINE GRADES, SEE TABLE 2 SHEET 4 THIS DRAWING NO. FOR ALL "A" AND "B" MAX. SIDE SLOPE IS EQUAL TO 1:10.

RAMP IN CURB RETURN
NO BACK OF WALK DEPRESSION



SECTION C-C



NOTES

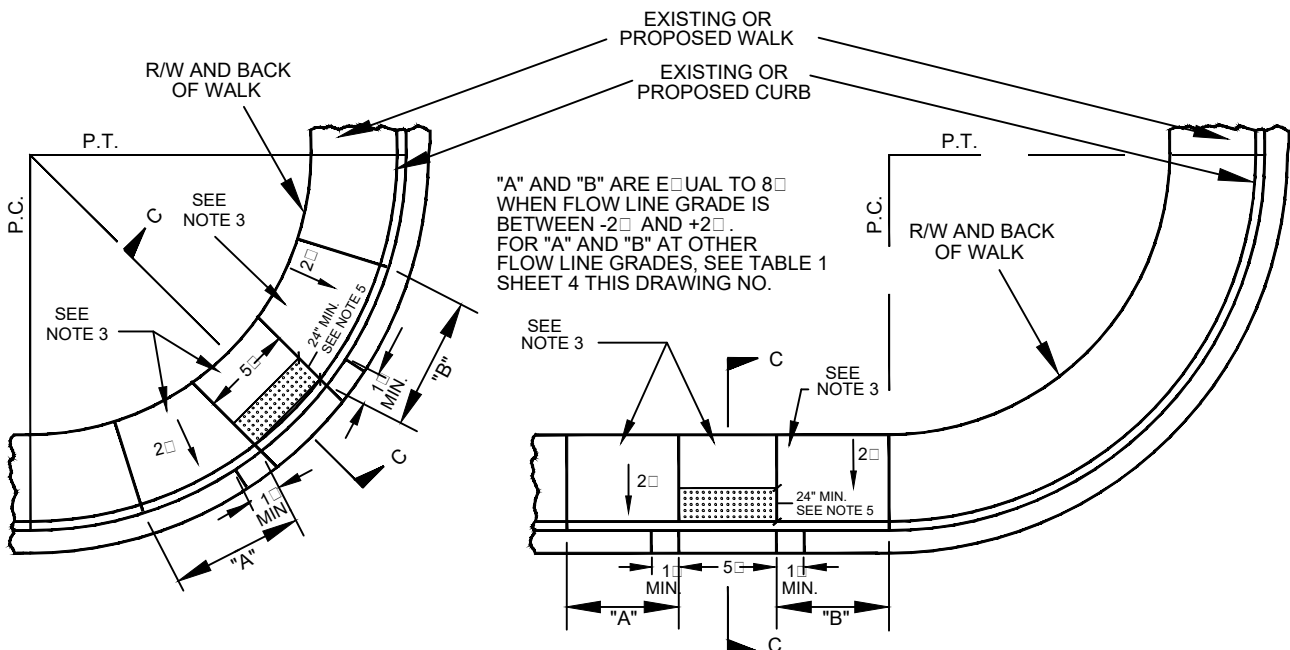
1. SIDEWALK RAMP WITHIN CURB RETURN SHALL BE LOCATED AT THE MIDPOINT OF CURB RETURN UNLESS OTHERWISE APPROVED.
2. RAMPS SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
3. WHEN CONSTRUCTING RAMP WHERE CURB & GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER.
4. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WHICH COMPLY WITH DETAILS ON SHEET 4 OF THIS DRAWING NO. AND CONTRASTING VISUALLY WITH ADJOINING SURFACES SHALL BE PLACED ON BOTTOM PORTION OF RAMP EXTENDING THE FULL WIDTH OF THE RAMP AND TO A MINIMUM DEPTH OF 24 INCHES. PAVER BLOCKS PERMITTED ONLY IN THE CITY OF BOULDER CITY FOR DETECTABLE WARNING AREAS.

CASE II SHALL BE USED WHERE R/W AND FIELD CONDITIONS PERMIT.

AGENCY APPROVED		C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SIDEWALK RAMP CASE II						
DATE 11-10-04	DWG. NO. 235	SHEET 2 OF 4				

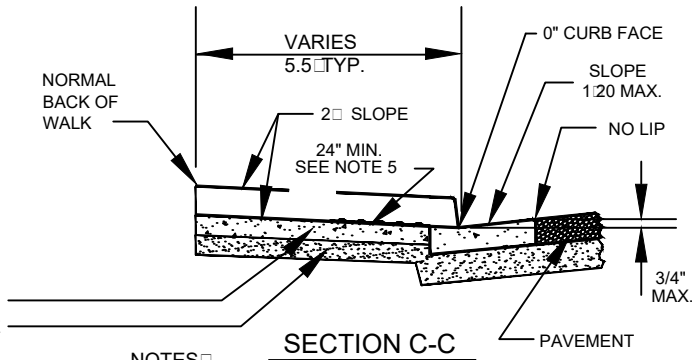
SPECIFICATION REFERENCE	
302	AGGREGATE BASE
501	CONCRETE
502	CONCRETE STRUCTURES

Effective 10/08/2020 to 12/09/2020



RAMP IN CURB RETURN

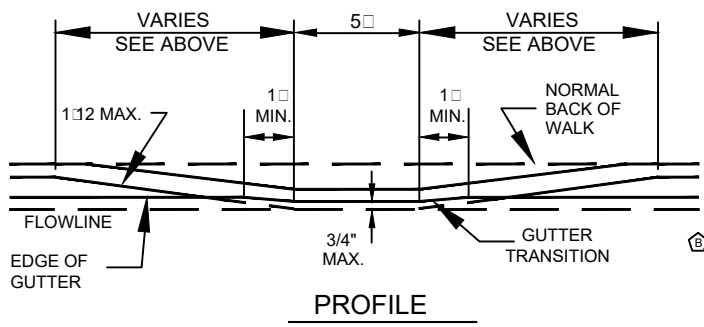
RAMP OUTSIDE CURB RETURN



SECTION C-C

NOTES

1. SIDEWALK RAMP WITHIN CURB RETURN SHALL BE LOCATED AT THE MIDPOINT OF CURB RETURN UNLESS OTHERWISE APPROVED.
2. SIDEWALK RAMP OUTSIDE OF THE CURB RETURN SHALL BE LOCATED ADJACENT TO THE RETURN UNLESS OTHERWISE APPROVED.
3. RAMP SHALL BE CONSTRUCTED WITH A ROUGH BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
4. WHEN CONSTRUCTING RAMP WHERE CURB & GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB & GUTTER.
5. DETECTABLE WARNING CONSISTING OF RAISED TRUNCATED DOMES WHICH COMPLY WITH DETAILS ON SHEET 4 OF THIS DRAWING NO. AND CONTRASTING VISUALLY WITH ADJOINING SURFACES SHALL BE PLACED ON BOTTOM PORTION OF RAMP EXTENDING THE FULL WIDTH OF THE RAMP AND TO A MINIMUM DEPTH OF 24 INCHES. PAVEMENT PERMITTED ONLY IN THE CITY OF BOULDER CITY FOR DETECTABLE WARNING AREAS.

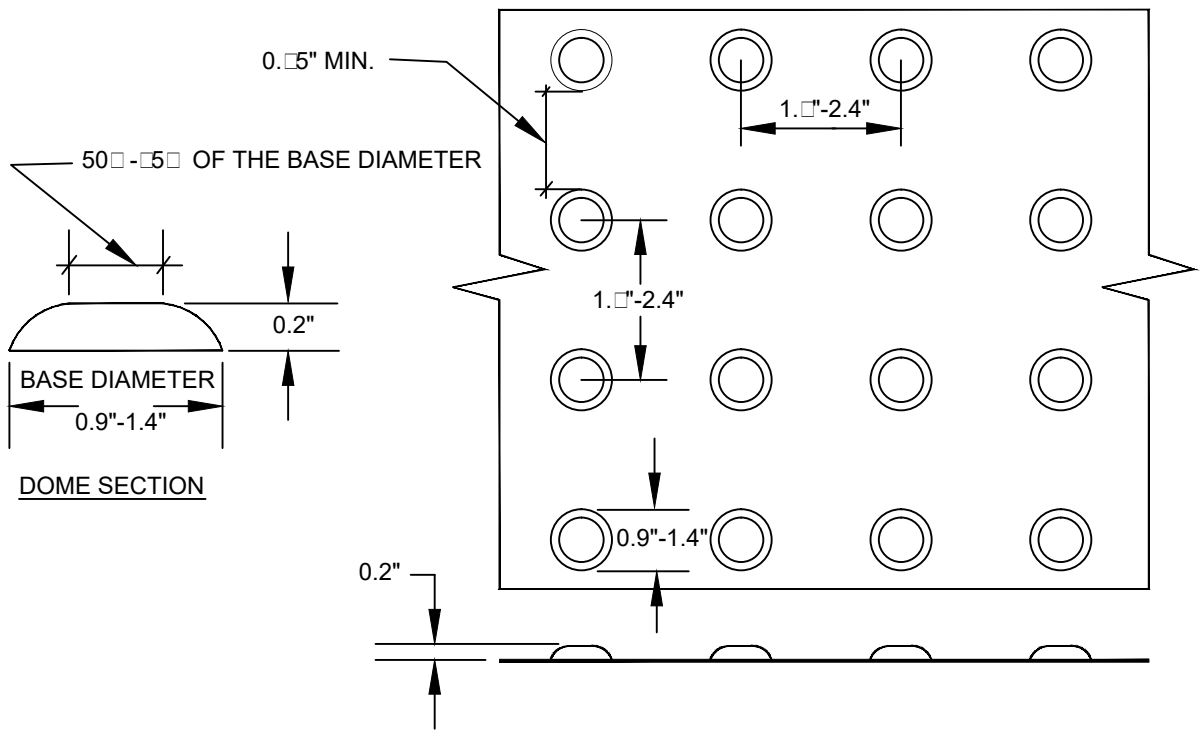


PROFILE

CASE III TO BE USED FOR AREAS WHERE OBSTRUCTION (I.E. BLOCK WALL) EXISTS AT BACK OF WALK ONLY WHEN APPROVED BY THE ENGINEER.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
302	AGGREGATE BASE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA SIDEWALK RAMP CASE III											
501	CONCRETE												
502	CONCRETE STRUCTURES												
		DATE 11-10-04			DWG. NO. 235			SHEET 3 OF 4					



DETECTABLE WARNING DETAILS [TRUNCATED DOMES]

GRADE [] [] "B" TO "A"	"A" [FT] MIN.	"B" [FT] MIN.
- [] TO -5.01	4.5	21.5
-5 TO -4.01	4.5	15.0
-4 TO -3.01	4.5	12.0
-3 TO -2.01	4.5	9.5
-2 TO 2	8.0	8.0
2.01 TO 3	9.5	4.5
3.01 TO 4	12.0	4.5
4.01 TO 5	15.0	4.5
5.01 TO []	21.5	4.5

TABLE 1. TRANSITION LENGTHS FOR 1:12 SIDE SLOPES

GRADE [] [] "B" TO "A"	"A" [FT] MIN.	"B" [FT] MIN.
- [] TO -5.01	4.0	12.5
-5 TO -4.01	4.0	10.0
-4 TO -3.01	4.0	8.5
-3 TO -2.01	4.0	7.5
-2 TO 2	[]5	[]5
2.01 TO 3	7.5	4.0
3.01 TO 4	8.5	4.0
4.01 TO 5	10.0	4.0
5.01 TO []	12.5	4.0

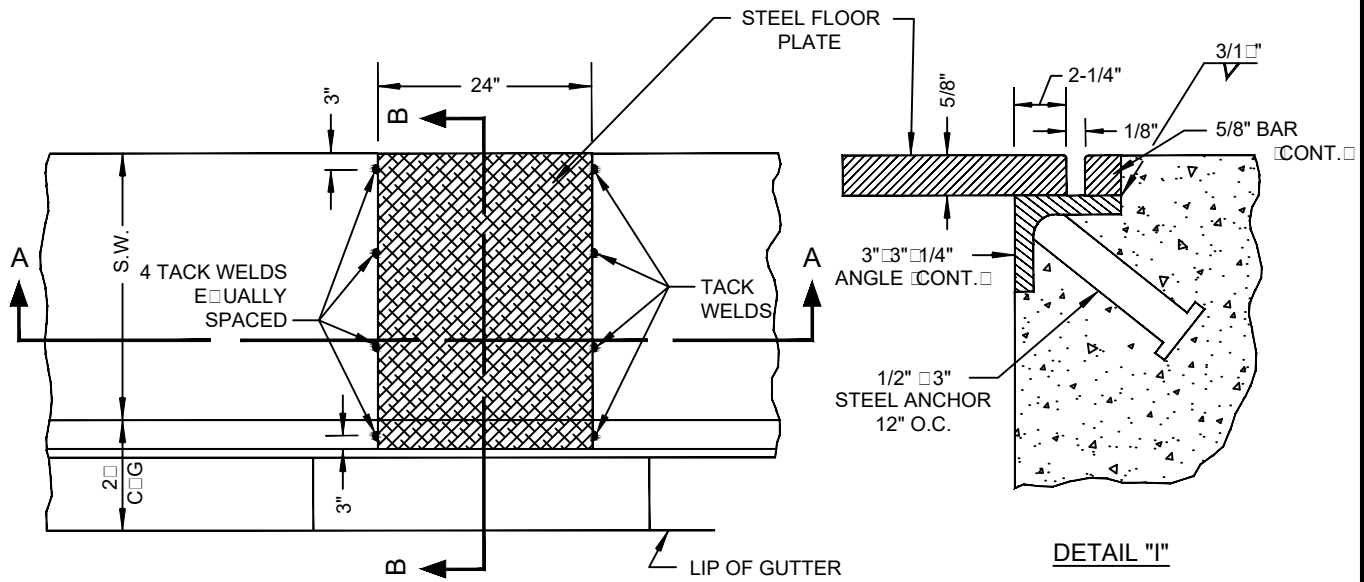
TABLE 2. TRANSITION LENGTHS FOR 1:10 SIDE SLOPES

NOTE

CHARTS APPLY TO CURB WITH [] CURB FACE.
IF CURB HAS GREATER THAN A [] CURB FACE,
A SPECIAL DESIGN IS REQUIRED.

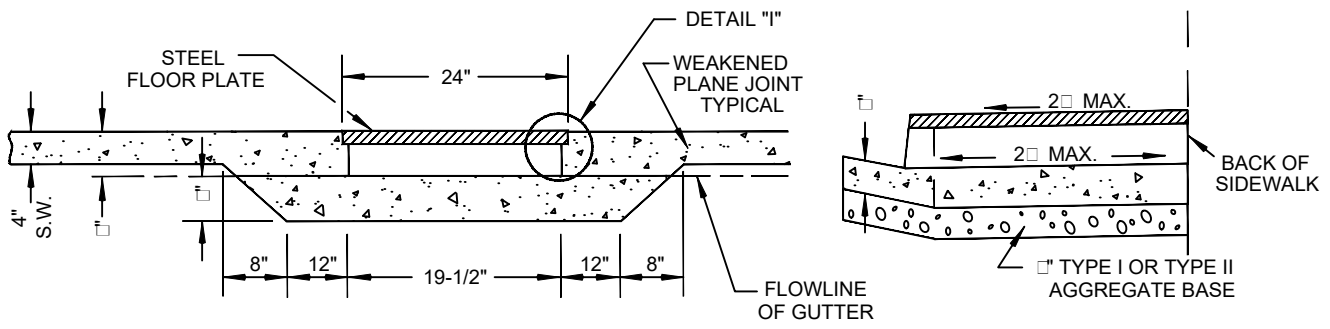
Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
		B	C	H	L	M	N
302	AGGREGATE BASE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
501	CONCRETE						
502	CONCRETE STRUCTURES						
		SIDEWALK RAMP DETAILS					
		DATE []-8-0[]		DWG. NO. 235		SHEET 4 OF 4	



PLAN

DETAIL "I"



SECTION A-A

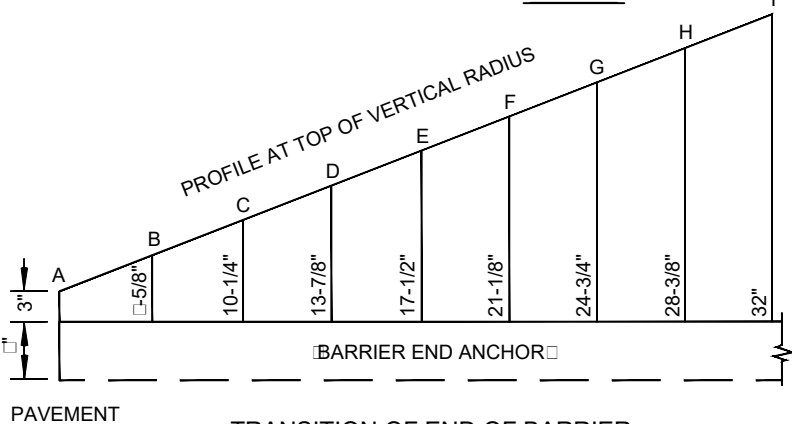
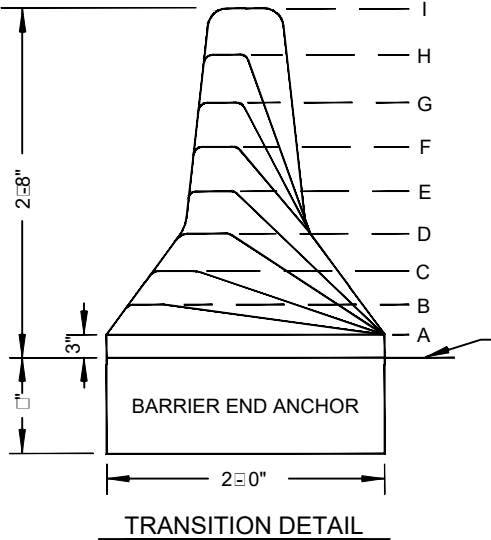
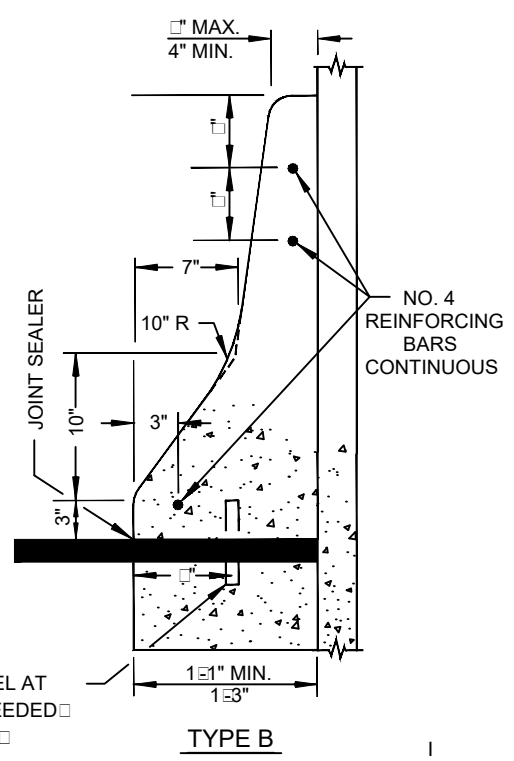
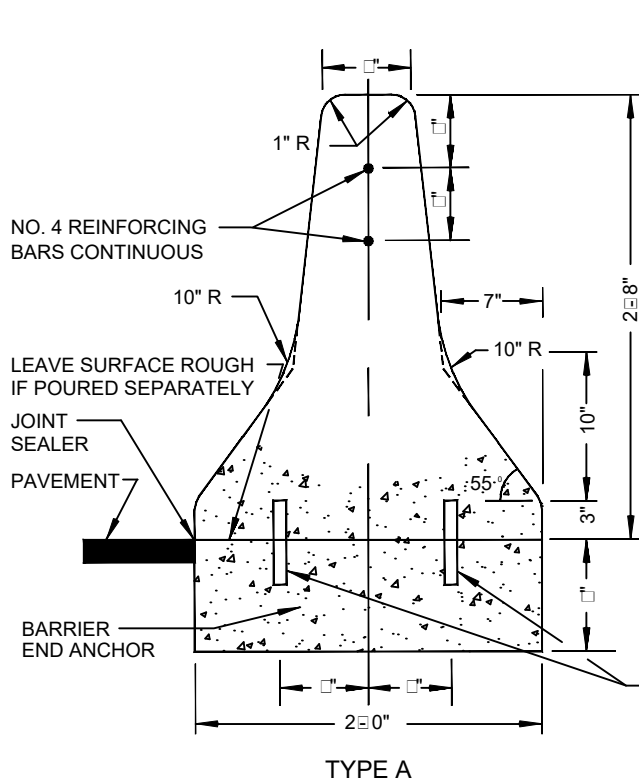
SECTION B-B

NOTES

1. IF WIDTH OF PLATE IS GREATER THAN 24", A SPECIAL DESIGN IS REQUIRED.
2. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED, AND ALL GALVANIZING DAMAGED BY FABRICATION OR INSTALLATION SHALL RECEIVE TWO COATS OF ALUMINUM PAINT (GALVONOX OR EQUAL). EXPOSED METAL PARTS IN THE PEDESTRIAN ACCESS ROUTE SHALL BE FIRM, STABLE, AND SLIP-RESISTANT.
3. TACK WELDS BETWEEN SIDEWALK AND STEEL PLATE FLOOR WITHIN PEDESTRIAN ACCESS ROUTES SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" REGARDLESS OF CONSTRUCTION TOLERANCES.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	C	H	L	M	N	R
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	BASE AGGREGATES	SIDEWALK DRAIN						
501	CONCRETE							
710	STRUCTURAL STEEL							
DATE 03-12-20		DWG. NO. 23						



CONCRETE BARRIER RAIL
FLARE RATES

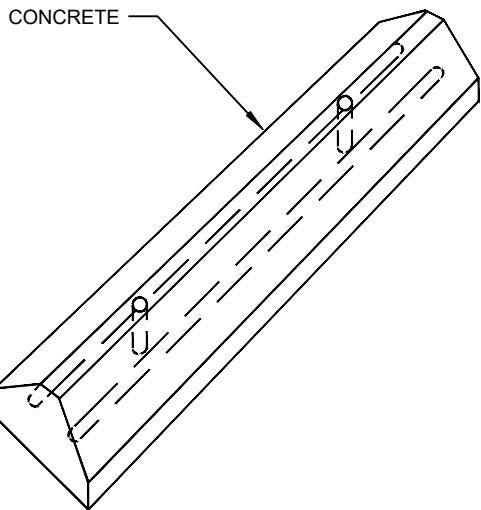
OPERATING SPEED	FLARE RATE
0	17" MAX
50	14"
40	11"

NOTES

1. TRANSVERSE JOINTS WITH 1" PREMOLDED EXPANSION JOINT FILLER OR 1" OPEN TRANSVERSE JOINTS SHALL BE PLACED AT STRUCTURES. JOINTS IN BARRIER RAIL OVER A STRUCTURE SHALL BE AT THE SAME LOCATION AND OF THE SAME DIMENSION AS THOSE IN THE STRUCTURE.
2. BITUMINOUS PAVING REQUIRED PAVING SHALL BUTT AGAINST THE BARRIER RAIL END ANCHOR SECTION AND SHALL EXTEND FULL WIDTH UNDER THE NORMAL BARRIER RAIL SECTION PLUS 3" MINIMUM 4-INCH DEEP BARRIER. END ANCHORS SHALL BE CONSTRUCTED IN THE FIRST AND LAST 10 LINEAR FEET OF THE FULL HEIGHT BARRIER RAIL RUN. IF TRANSITIONS ARE USED, THE ANCHOR SHALL BE EXTENDED UNDER THE TRANSITION.

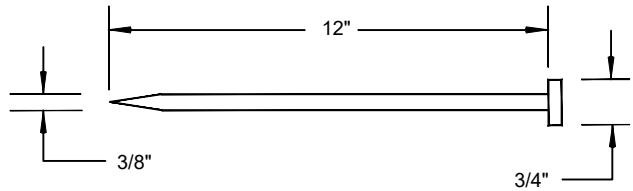
Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
501	CONCRETE	B	C	H	L	M	N
502	CONCRETE STRUCTURES	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		CONCRETE BARRIER RAIL					
		DATE 12-14-00	DWG. NO.	237			

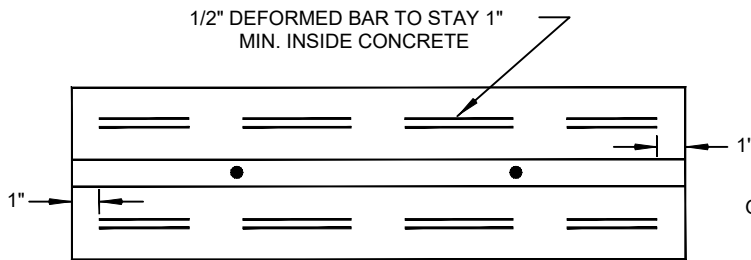


NOTES

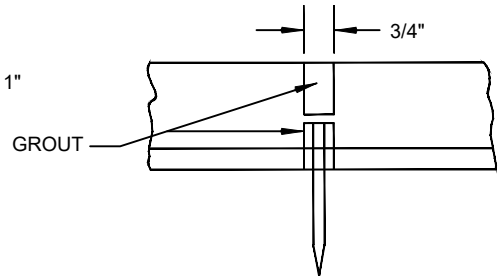
1. PRECAST BUMPER BLOCK TO BE USED IN PARKING LOTS ONLY.
2. GROUT HOLE BEFORE DRIVING SPIKE. AFTER DRIVING SPIKE, FILL HOLE WITH CONCRETE MORTAR AND FINISH FLUSH WITH TOP.



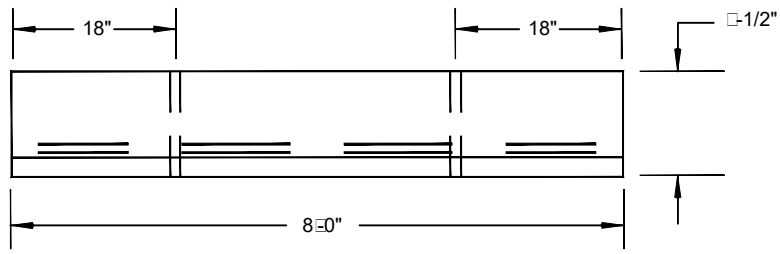
STEEL WIRE BRIDGE SPIKE



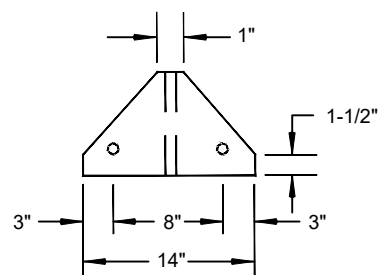
TOP VIEW



HOLE DETAIL



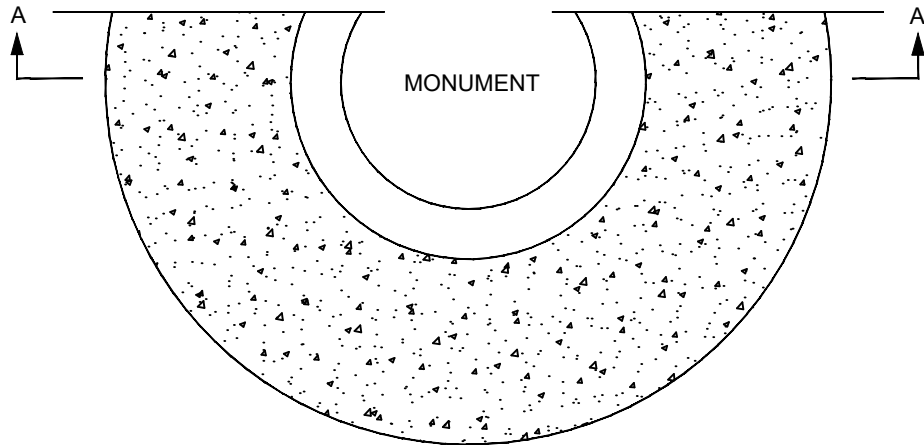
SIDE VIEW



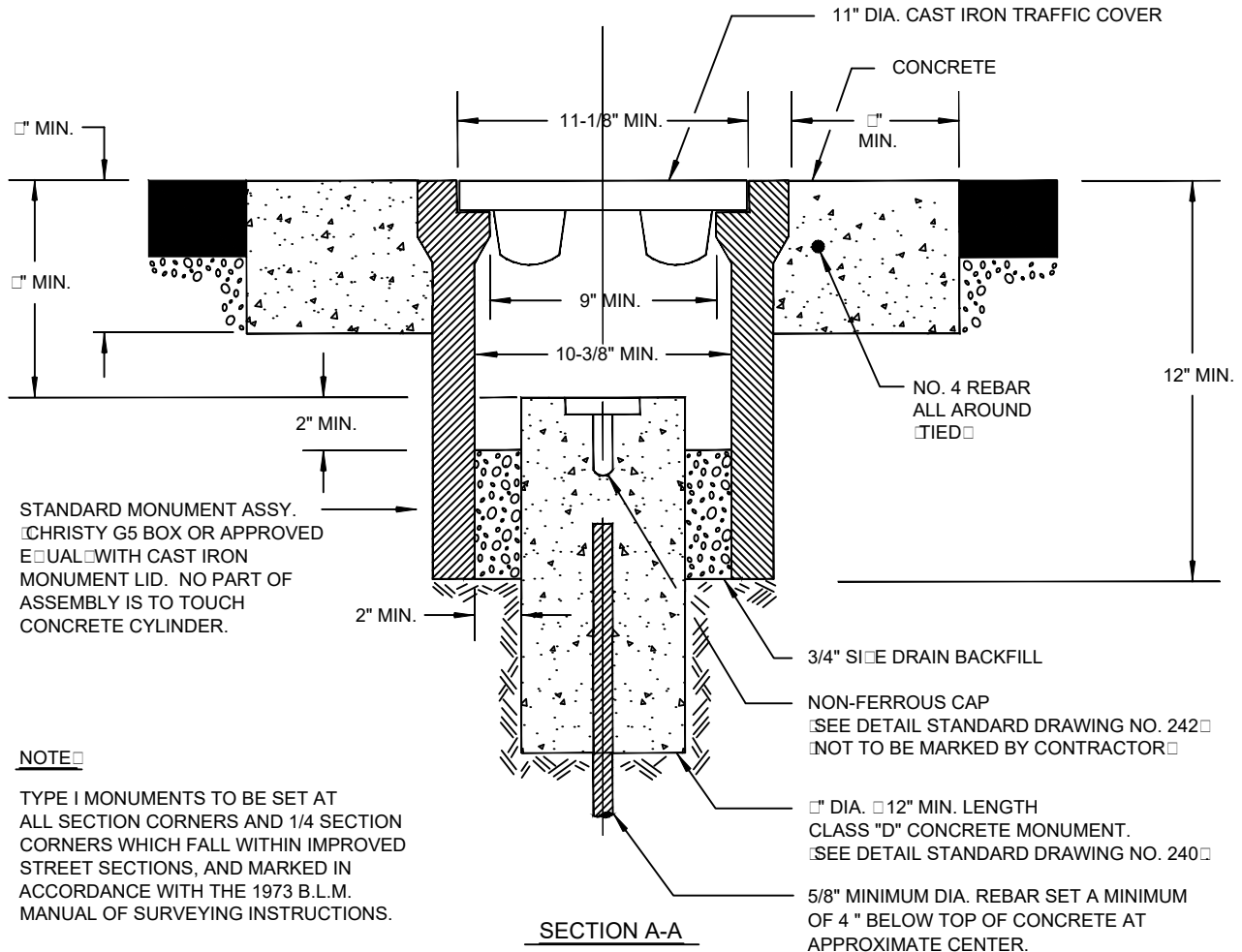
END VIEW

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
501	CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
505	REINFORCING STEEL	PRECAST BUMPER BLOCK						
		DATE 12-14-00		DWG. NO.		238		



PLAN



STANDARD MONUMENT ASSY.
 CHRISTY G5 BOX OR APPROVED
 EQUAL WITH CAST IRON
 MONUMENT LID. NO PART OF
 ASSEMBLY IS TO TOUCH
 CONCRETE CYLINDER.

NOTE

TYPE I MONUMENTS TO BE SET AT ALL SECTION CORNERS AND 1/4 SECTION CORNERS WHICH FALL WITHIN IMPROVED STREET SECTIONS, AND MARKED IN ACCORDANCE WITH THE 1973 B.L.M. MANUAL OF SURVEYING INSTRUCTIONS.

3/4" SIEVE DRAIN BACKFILL

NON-FERROUS CAP

SEE DETAIL STANDARD DRAWING NO. 242
 NOT TO BE MARKED BY CONTRACTOR

" DIA. 12" MIN. LENGTH CLASS "D" CONCRETE MONUMENT.
 SEE DETAIL STANDARD DRAWING NO. 240

5/8" MINIMUM DIA. REBAR SET A MINIMUM OF 4" BELOW TOP OF CONCRETE AT APPROXIMATE CENTER.

SECTION A-A

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
501	CONCRETE
21	MONUMENTS
704	BASE AGGREGATE

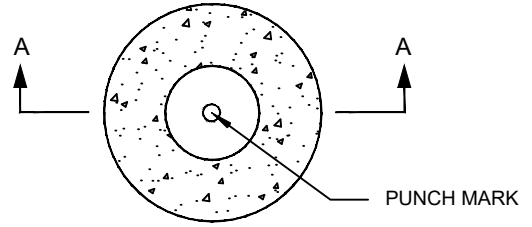
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE I MONUMENT	

DATE 12-14-00	DWG. NO. 239
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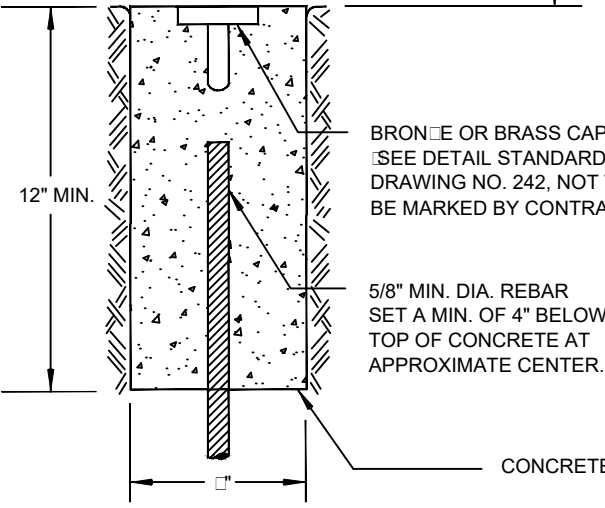
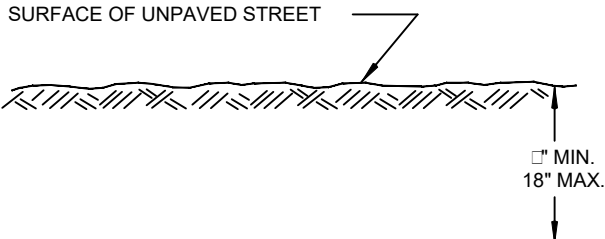
Effective 10/08/2020 to 12/09/2020

NOTES

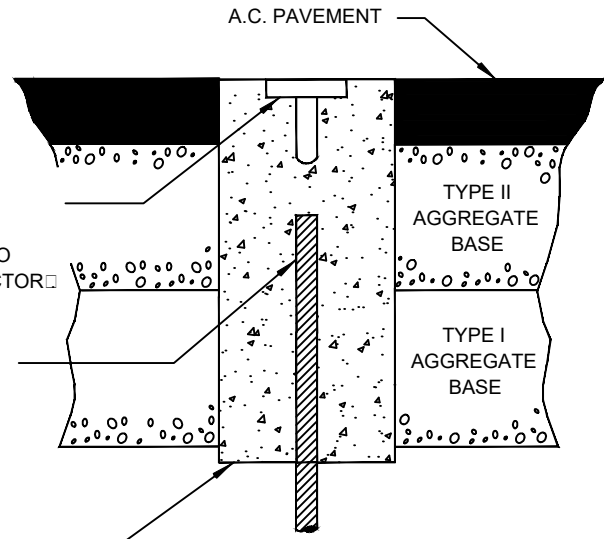
1. TYPE II-A MONUMENTS TO BE SET AT ALL SECTION CORNERS, 1/4 SECTION CORNERS AND 1/1 SECTION CORNERS WHICH FALL WITHIN UNIMPROVED STREET SECTIONS.
 2. TYPE II-B MONUMENTS TO BE SET AT ALL 1/1 SECTION CORNERS WHICH FALL WITHIN IMPROVED STREET SECTIONS.
 3. ALL TYPE II MONUMENTS ARE TO BE MARKED IN ACCORDANCE WITH THE 1973 B.L.M. MANUAL OF SURVEYING INSTRUCTIONS.
 4. 4" x 4" SQUARE MONUMENTS ARE ALSO ACCEPTABLE.
 5. IF MONUMENTS ARE TO BE "PRECAST" THEY ARE TO BE EMBEDDED IN FRESH CONCRETE TO PREVENT MOVEMENT.
- THE COUNTY/CITY SURVEYOR MAY REQUIRE TYPE II MONUMENTS IN ADDITIONAL LOCATIONS.



PLAN



SECTION A-A
TYPE II-A
UNPAVED STREET



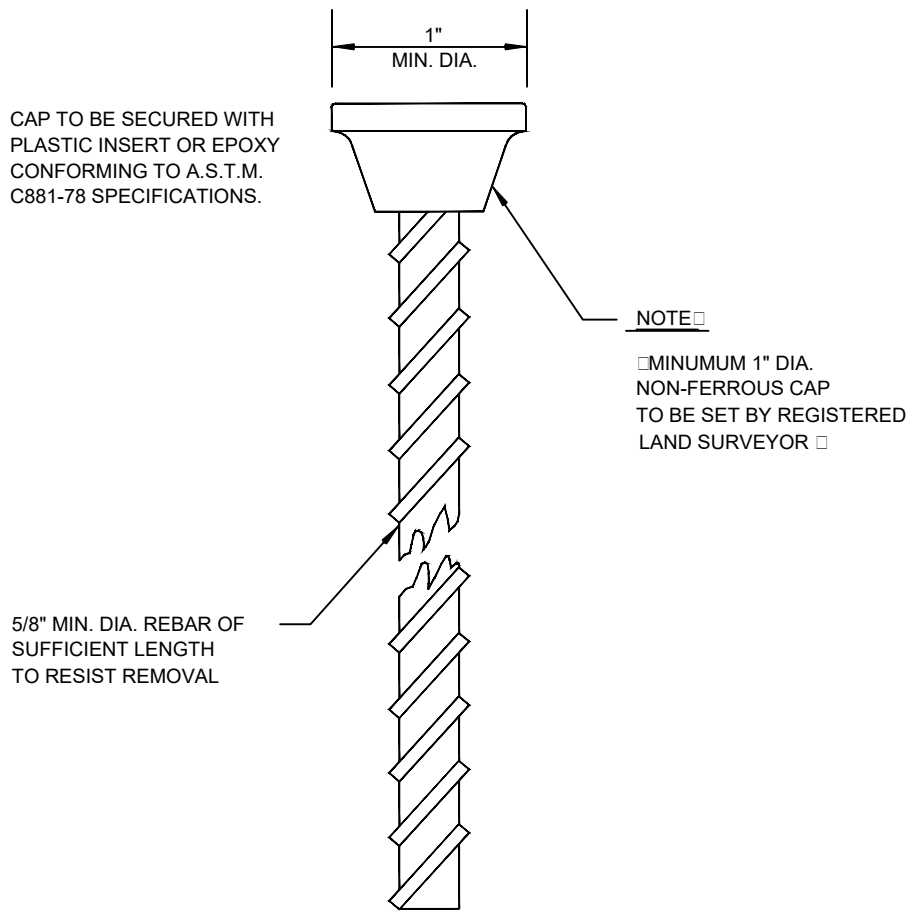
SECTION A-A
TYPE II-B
PAVED STREET

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
501	CONCRETE	TYPE II MONUMENT						
21	MONUMENTS							
		DATE 12-14-00	DWG. NO.	240				

NOTES

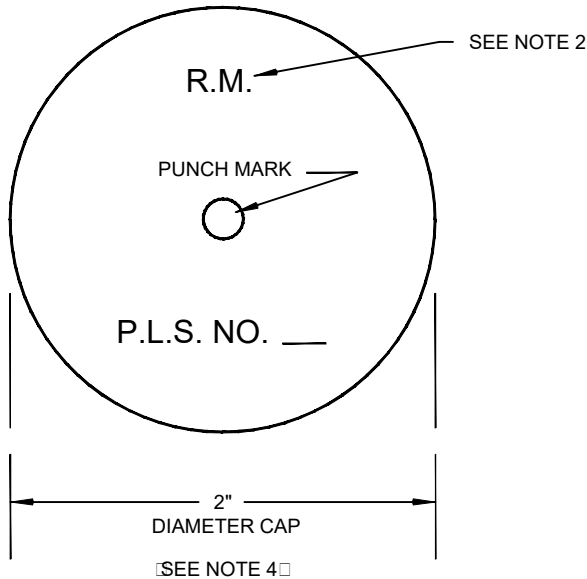
1. TYPE III MONUMENTS TO BE SET AT ALL CENTERLINE CONTROL POINTS NOT OTHERWISE IDENTIFIED BY A TYPE I OR TYPE II MONUMENT, INCLUDING STREET INTERSECTIONS, POINTS OF CURVATURE, POINTS OF TANGENCY, POINTS OF INTERSECTION AND CENTERS OF HAMMERHEAD TURNAROUNDS OR CIRCULAR CUL-DE-SACS.
2. THE REGISTERED LAND SURVEYOR'S NUMBER, AND A PUNCH MARK ARE TO APPEAR ON THE SURFACE OF THE CAP.



TYPE III MONUMENT

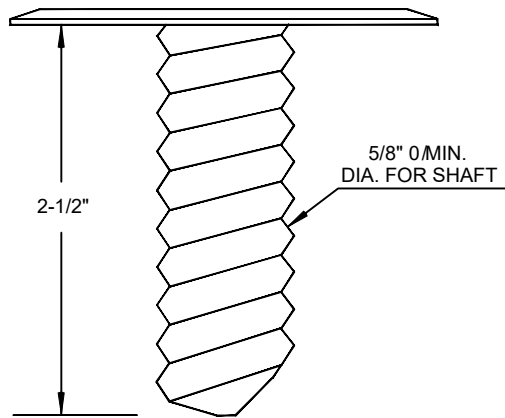
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
21	MONUMENTS	TYPE III MONUMENT						
	DATE	DWG. NO.	241					

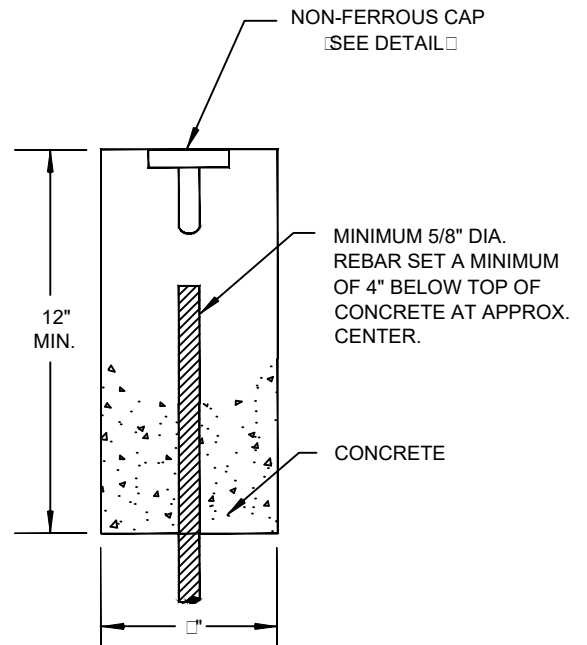


NOTES

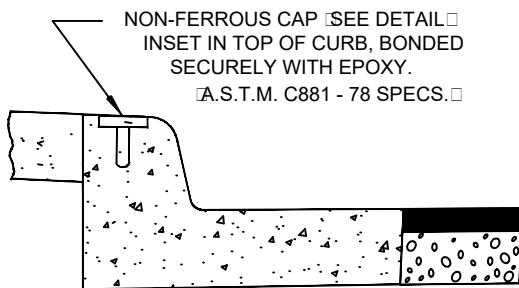
1. FOUR TYPE IV REFERENCE MONUMENTS TO BE SET WITHIN A RADIUS OF TWENTY TO ONE HUNDRED FEET FROM ALL TYPE I, II, AND III MONUMENTS.
2. THE TIE DISTANCE AND THE INITIALS R.M. ARE TO BE STAMPED ON THE CAP, FOR TYPE IV MONUMENTS.
3. NON-FERROUS CAP TO BE MADE FROM CAST VIRGIN METAL IN ONE PIECE, FREE FROM CASTING IMPERFECTIONS, WITH CORRUGATED SHAFT.
4. TYPE III AND TYPE IV MONUMENT CAP DIAMETER MAY BE REDUCED TO 1".



DETAIL
STANDARD CAP



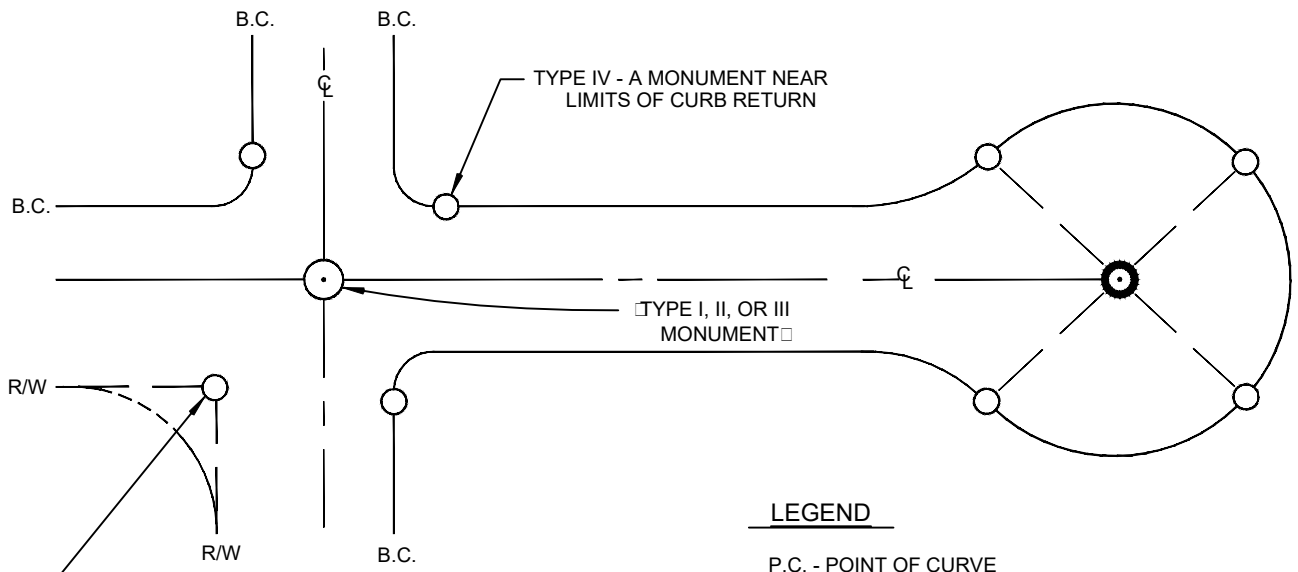
TYPE IV-B MONUMENT
NO CURB GUTTER



TYPE IV-A MONUMENT
EXISTING CURB GUTTER

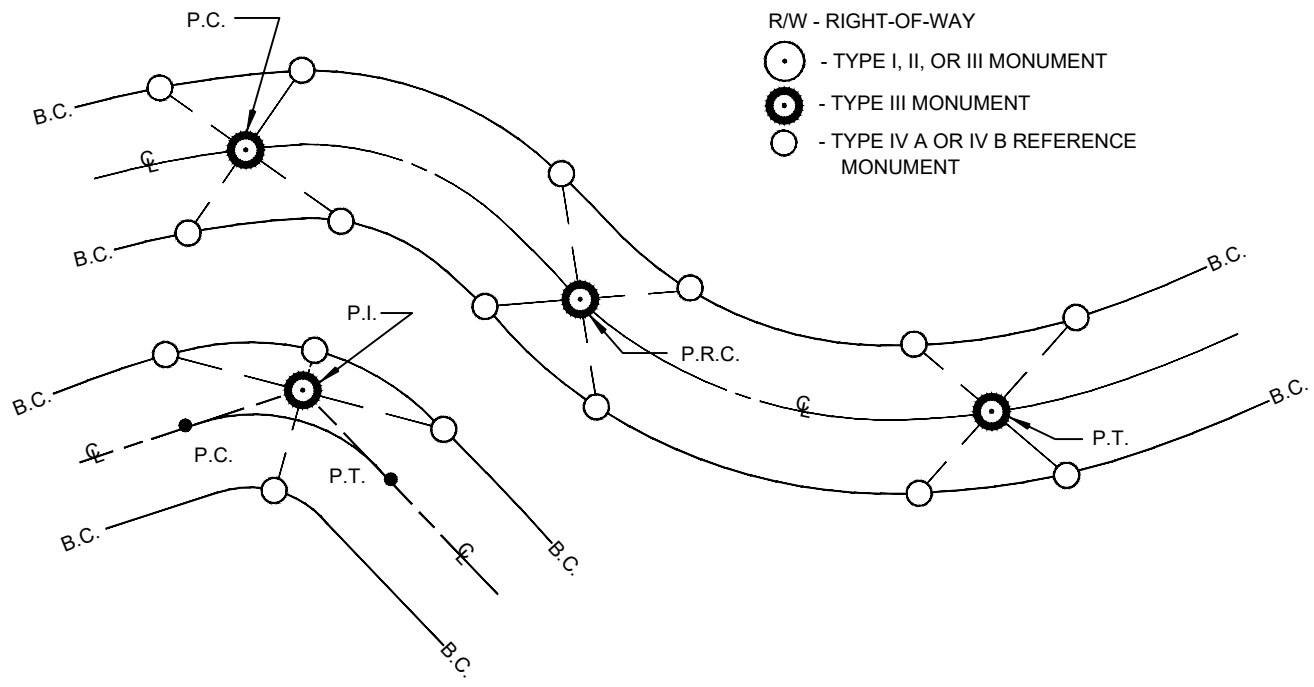
AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
TYPE IV MONUMENT							
DATE	12-14-00	DWG. NO.	242				

SPECIFICATION REFERENCE	
501	CONCRETE
21	MONUMENTS



LEGEND

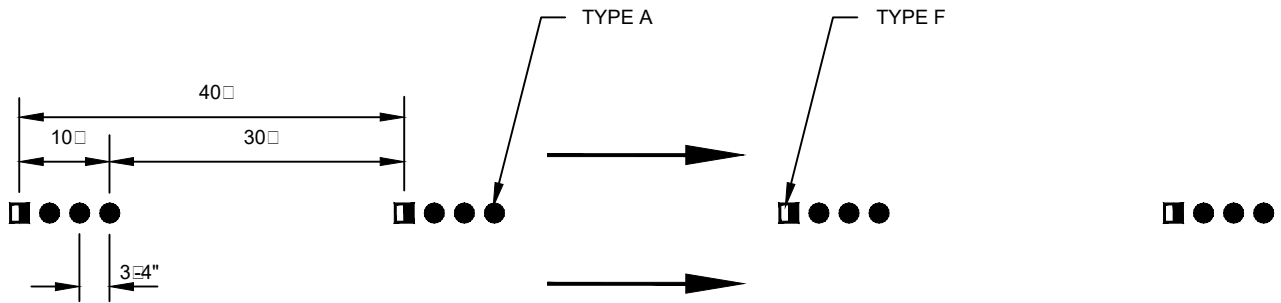
- P.C. - POINT OF CURVE
- P.R.C. - POINT OF REVERSE CURVE
- P.T. - POINT OF TANGENCY
- CL - CENTERLINE
- B.C. - BACK OF CURB
- P.I. - POINT OF INTERSECTION
- R/W - RIGHT-OF-WAY
- - TYPE I, II, OR III MONUMENT
- - TYPE III MONUMENT
- - TYPE IV A OR IV B REFERENCE MONUMENT



Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
TYPICAL MONUMENT LOCATION							
DATE	DWG. NO.		243				

SPECIFICATION REFERENCE	



TYPE 4 LANE LINE

□ DIVIDED, UNDIVIDED OR ONE-WAY ROADWAY □

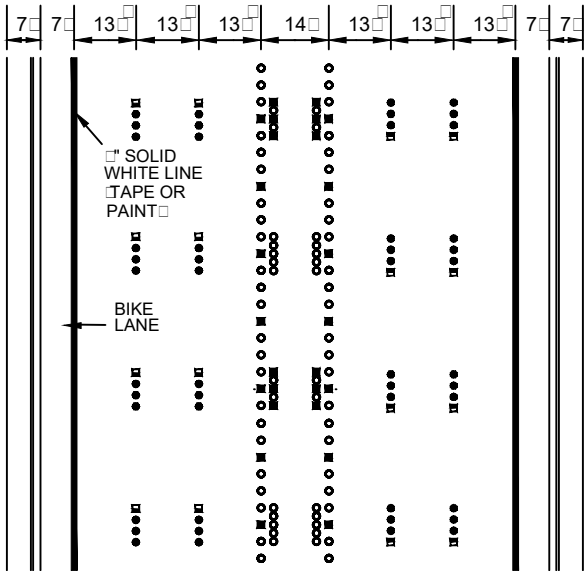
Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED	B	C	H	L	M	N
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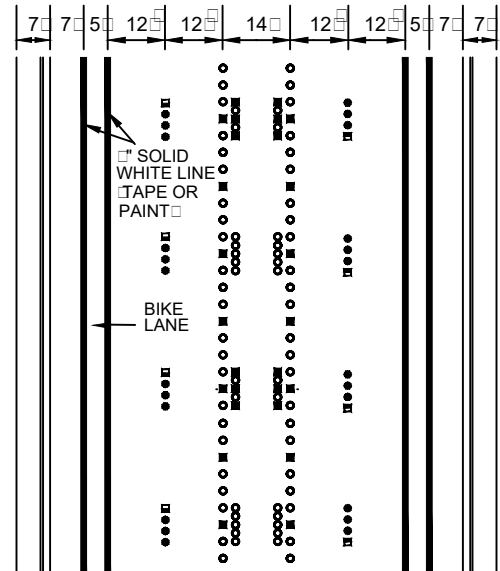
SPECIFICATION REFERENCE	
□33	PAVEMENT MARKERS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPICAL LANE LINE DELINEATION	

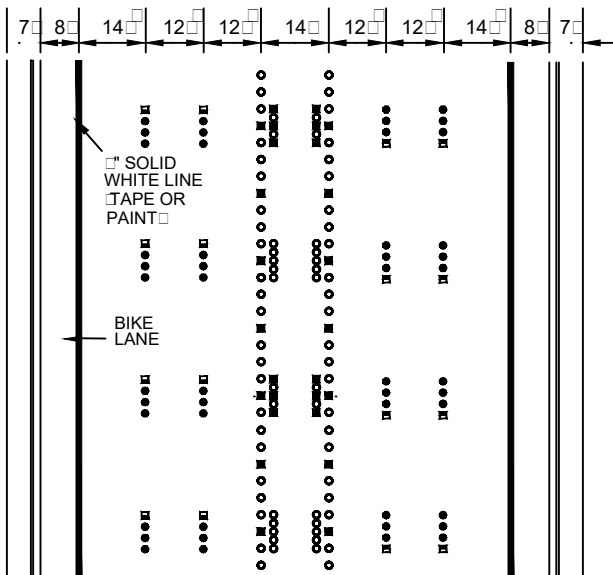
DATE	4-8-99	DWG. NO.	244.1
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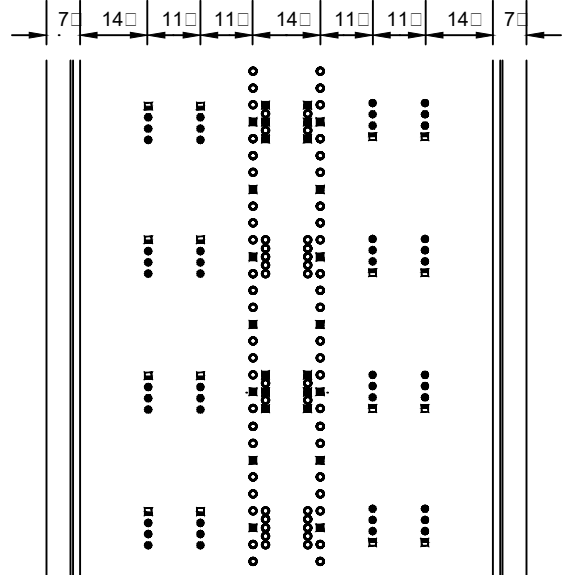
120 FT. STREET WITH BIKE LANE
WITHOUT PARKING



100 FT. STREET WITH BIKE LANE
WITH PARKING/EMERGENCY LANE



120 FT. STREET WITH BIKE LANE
WITHOUT PARKING



100 FT. STREET WITH SHARED
BIKE/VEHICLE LANE WITHOUT PARKING

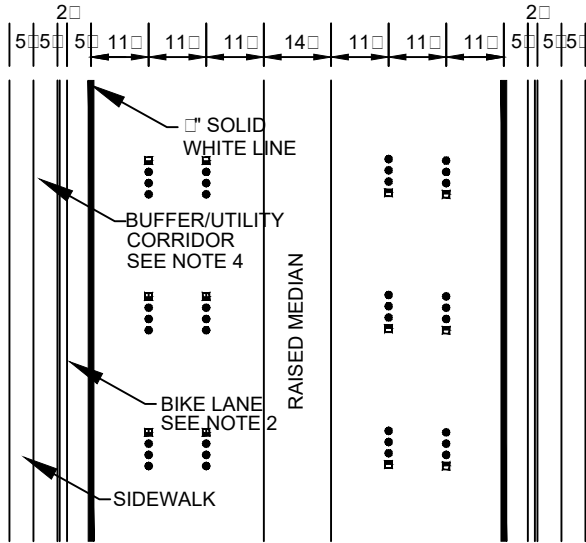
NOTES
 THE WIDTH OF TRAVEL LANES ADJACENT TO BIKE LANES MAY VARY FROM 12 FT. TO 14 FT.
 WIDTHS OF INTERIOR TRAVEL LANES MAY VARY FROM 11 FT. TO 13 FT.

- LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NOS. 244 & 244.1.
- IN SOME CASES, A MEDIAN WILL EXIST INSTEAD OF TWO-WAY LEFT TURN LANE.
- BIKE LANES MUST BE A MINIMUM OF 4 FT. AND NO GREATER THAN 8 FT. WIDE. HOWEVER, A WIDTH OF 5 FT. IS PREFERRED.
- WHERE 5 FT. SIDEWALK EXISTS, WIDTH OF MEDIAN MAY BE REDUCED BY 2 FT. OR TRAVEL LANES MAY BE REDUCED TO 11 FT.
- ALL CURB LANES ARE MEASURED TO LIP OF GUTTER OR EDGE OF PAVEMENT IF CURB AND GUTTER DO NOT EXIST.

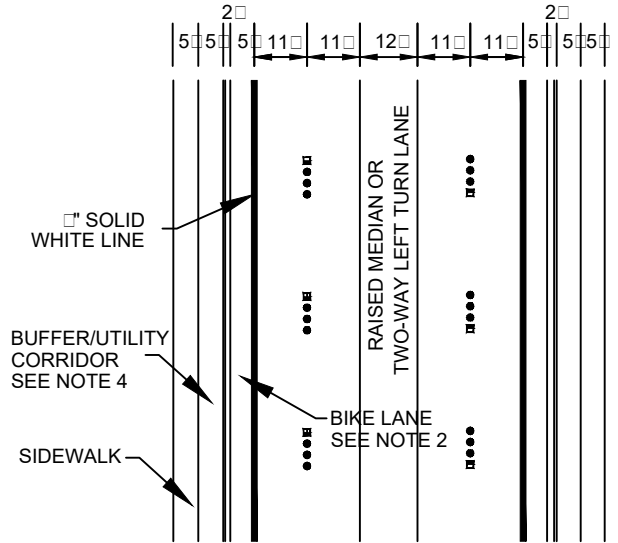
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
28	PAINTING TRAFFIC STRIPING
33	PAVEMENT MARKERS

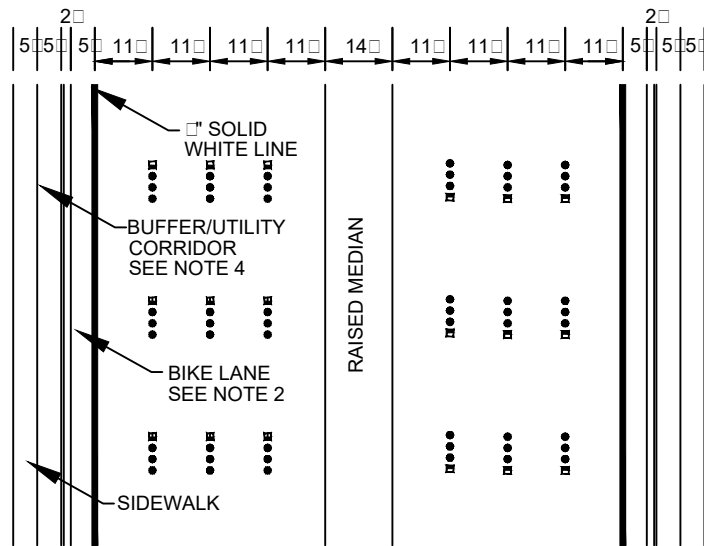
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPICAL DELINEATION FOR ROADWAYS 100 FT. OR GREATER RIGHT-OF-WAY WITH CURBSIDE SIDEWALK	
DATE 7-10-03	DWG. NO. 244.2



114 FT. STREET



90 FT. STREET

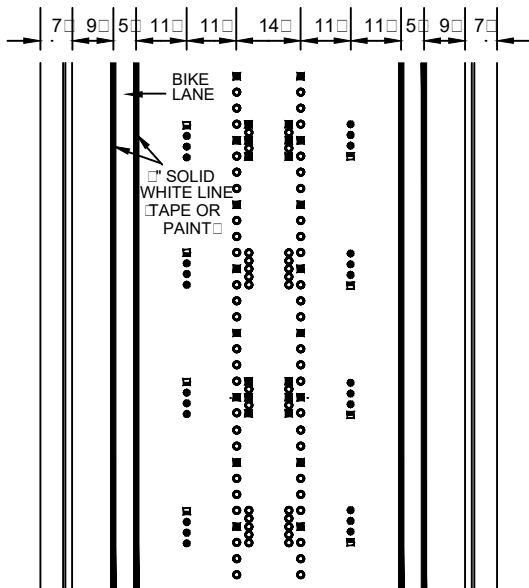


13 FT. STREET

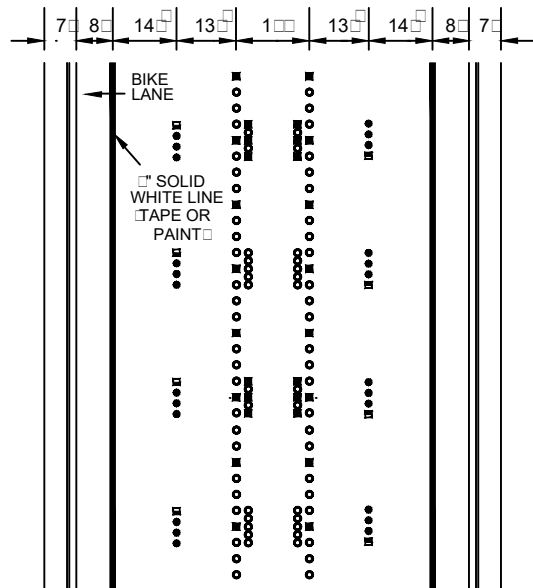
NOTES

1. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NO. 244 244.1.
2. BIKE LANES TO BE PROVIDED IF SEGMENT CONNECTS TO OTHER BIKE LANES OR IF ROADWAY SEGMENT IS 1 MILE OR GREATER. IF BIKE LANE IS NOT PROVIDED, TRAVEL LANES SHOULD REMAIN AT DIMENSIONS SHOWN SO A BICYCLE LANE COULD BE PROVIDED IN THE FUTURE. SEE DRAWING NUMBER 244.1 FOR BIKE LANE SIGNING AND STRIPING DETAILS.
3. ALL CURB LANES ARE MEASURED TO LIP OF GUTTER OR EDGE OF PAVEMENT IF CURB AND GUTTER DO NOT EXIST.
4. CONTACT THE LOCAL JURISDICTIONAL FOR DEVELOPMENT REQUIREMENTS FOR THE AREA BETWEEN THE CURB AND SIDEWALK.

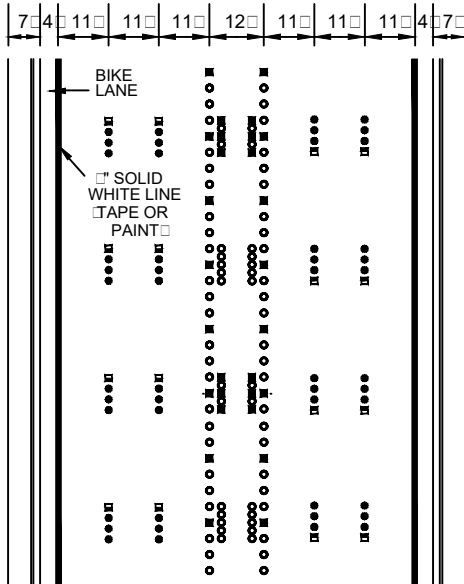
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	TYPICAL DELINEATION FOR ALTERNATE ROADWAYS WITH OFFSET SIDEWALK						
33	PAVEMENT MARKERS							
DATE	7-10-03	DWG. NO.	244.3					



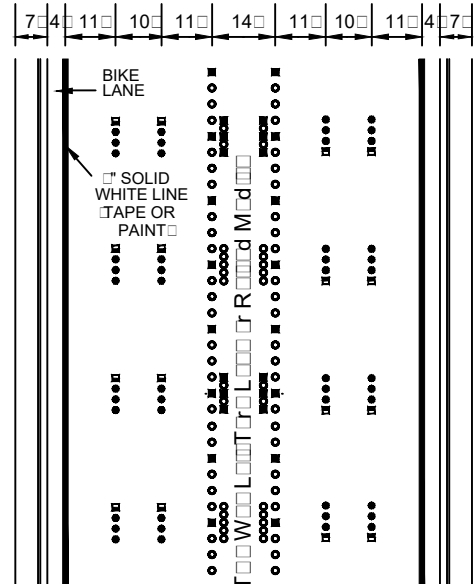
100 FT. STREET WITH BIKE LANE
WITH PARKING/EMERGENCY LANE



100 FT. STREET WITH BIKE LANE
WITHOUT PARKING/EMERGENCY LANE



100 FT. STREET WITH BIKE LANE
WITHOUT PARKING/EMERGENCY LANE



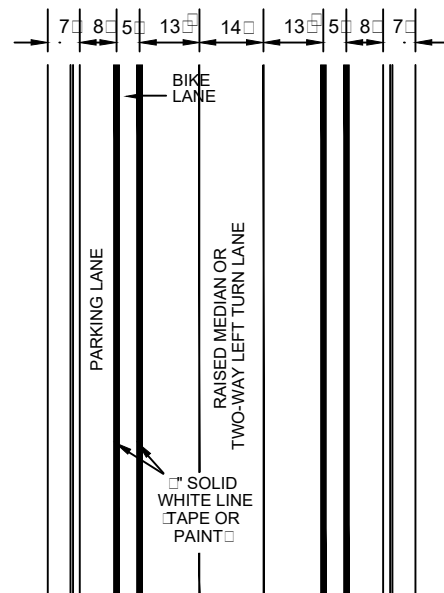
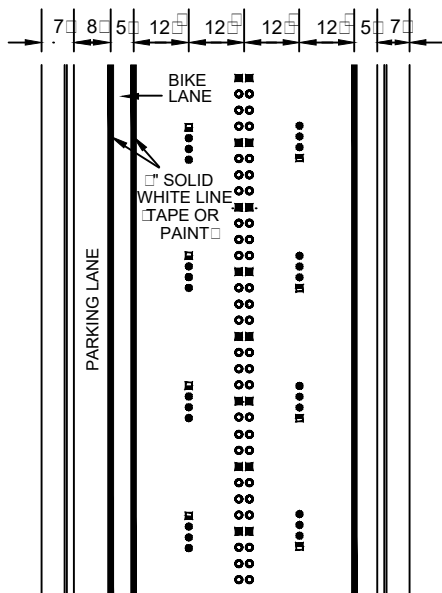
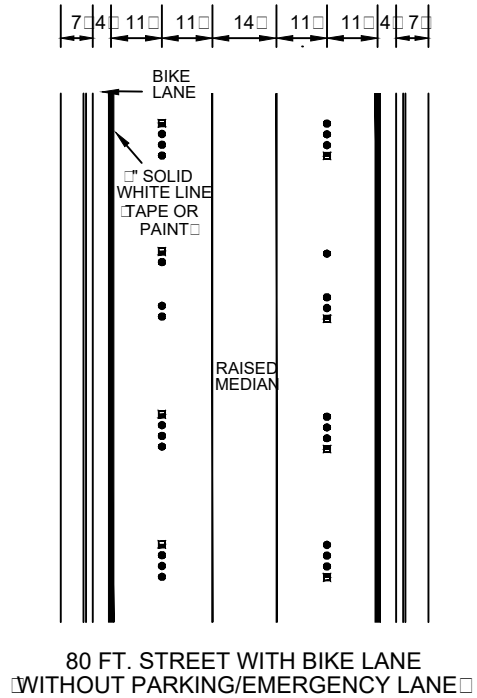
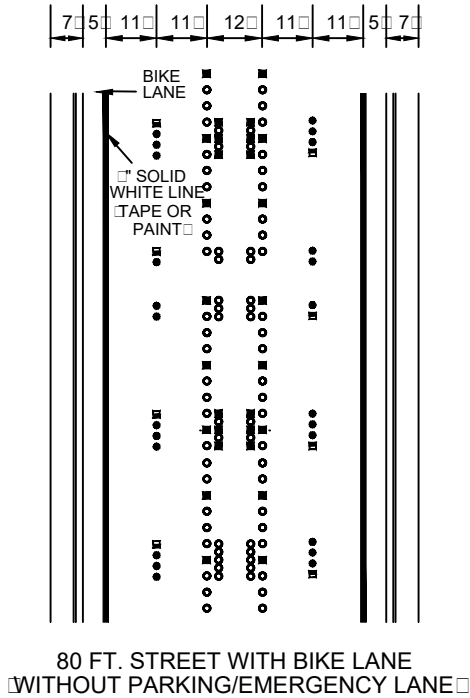
100 FT. STREET WITH BIKE LANE
WITHOUT PARKING/EMERGENCY LANE

NOTES

1. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NOS. 244 & 244.1.
 2. IN SOME CASES, A MEDIAN WILL EXIST INSTEAD OF TWO-WAY LEFT TURN LANE.
 3. BIKE LANES MUST BE A MINIMUM OF 4 FT. AND NO GREATER THAN 8 FT. WIDE. HOWEVER, A WIDTH OF 5 FT. IS PREFERRED.
 4. WHERE 5 FT. SIDEWALK EXISTS, WIDTH OF MEDIAN MAY BE REDUCED BY 2 FT. OR TRAVEL LANES MAY BE REDUCED TO 11 FT.
 5. ALL CURB LANES ARE MEASURED TO LIP OF GUTTER OR EDGE OF PAVEMENT IF CURB AND GUTTER DO NOT EXIST.
- THE WIDTH OF TRAVEL LANES ADJACENT TO BIKE LANES MAY VARY FROM 12 FT. TO 13 FT. WIDTHS OF INTERIOR TRAVEL LANES MAY VARY FROM 11 FT. TO 13 FT.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	TYPICAL DELINEATION FOR ROADWAYS 100 FT. RIGHT-OF-WAY WITH CURBSIDE SIDEWALK						
401	PAVEMENT MARKERS							
		DATE 3-9-0	DWG. NO.		244.4			



NOTES
 1. THE WIDTH OF TRAVEL LANE MAY VARY FROM 11 FT. TO 13 FT.

1. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NOS. 244 & 244.1.
2. BIKE LANES MUST BE A MINIMUM OF 4 FT. AND NO GREATER THAN 8 FT. WIDE. HOWEVER, A WIDTH OF 5 FT. IS PREFERRED.
3. WHERE 4 FT. SIDEWALK EXISTS, WIDTH OF MEDIAN MAY BE REDUCED BY 2 FT. OR TRAVEL LANES MAY BE REDUCED TO 11 FT.
4. ALL CURB LANES ARE MEASURED TO LIP OF GUTTER OR EDGE OF PAVEMENT IF CURB AND GUTTER DO NOT EXIST.

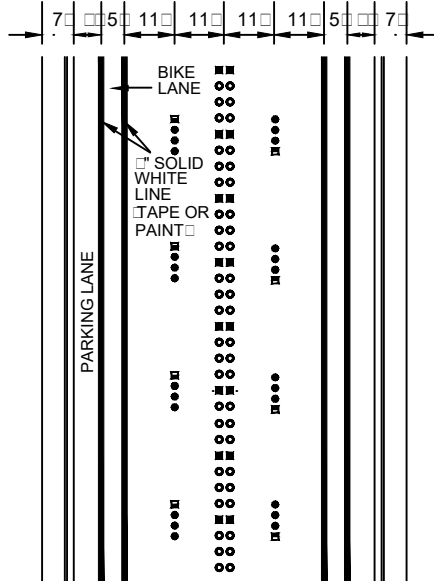
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
28	PAINTING TRAFFIC STRIPING
33	PAVEMENT MARKERS

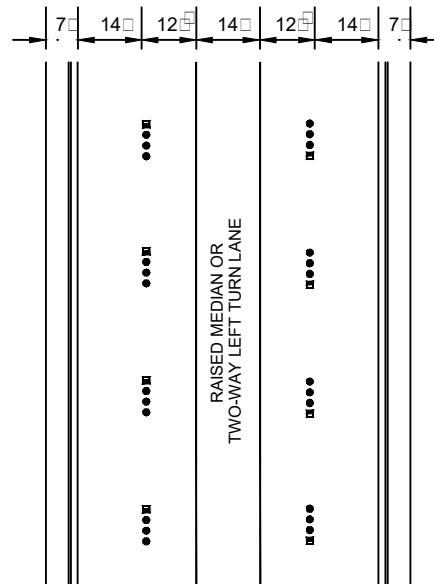
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPICAL DELINEATION FOR
ROADWAYS 80 FT. RIGHT-OF-WAY
WITH CURBSIDE SIDEWALK

DATE 7-10-03	DWG. NO. 244.5	SHEET 1 OF 2
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80 FT. STREET WITH BIKE LANE
WITH PARKING ON BOTH SIDES



80 FT. STREET WITH SHARED BIKE/VEHICLE LANE
WITHOUT PARKING/EMERGENCY LANE

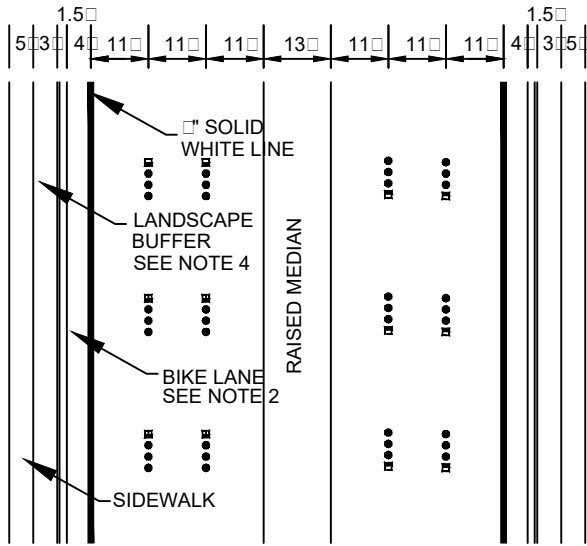
WIDTH OF TRAVEL LANE MAY VARY FROM 11 FT. TO 12 FT.

NOTES

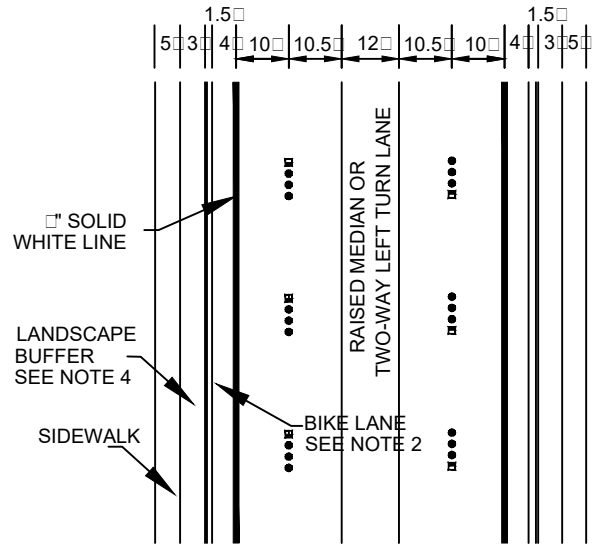
1. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NO. 244 244.1.
2. BIKE LANES MUST BE A MINIMUM OF 4 FT. AND NO GREATER THAN 8 FT. WIDE HOWEVER, A WIDTH OF 5 FT. IS PREFERRED.
3. WHERE 11 FT. SIDEWALK EXISTS, WIDTH OF MEDIAN MAY BE REDUCED BY 2 FT. OR TRAVEL LANES MAY BE REDUCED TO 11 FT.
4. ALL CURB LANES ARE MEASURED TO LIP OF GUTTER OR EDGE OF PAVEMENT IF CURB AND GUTTER DO NOT EXIST.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
28	PAINTING TRAFFIC STRIPING	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
33	PAVEMENT MARKERS												
		TYPICAL DELINEATION FOR ROADWAYS 80 FT. RIGHT-OF-WAY WITH CURBSIDE SIDEWALK											
		DATE	7-10-03	DWG. NO.	244.5	SHEET 2 OF 2							



10 FT. STREET



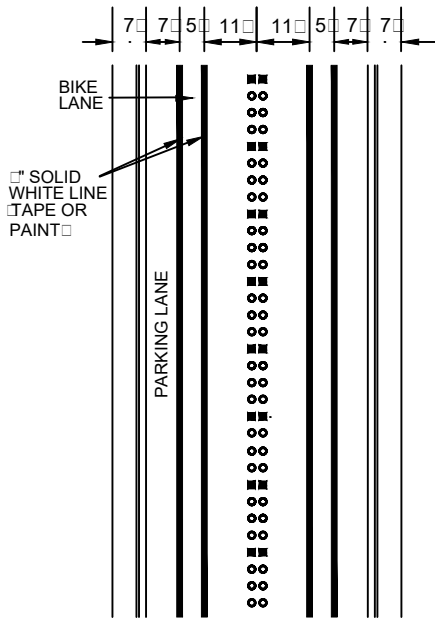
80 FT. STREET

NOTES

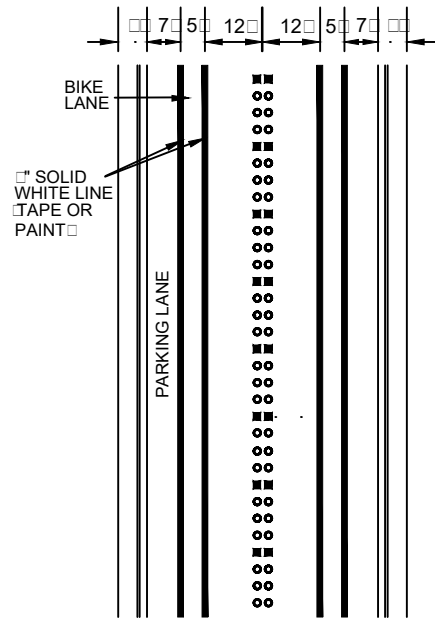
1. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NO. 244 - 244.1.
2. BIKE LANES TO BE PROVIDED IF SEGMENT CONNECTS TO OTHER BIKE LANES OR IF ROADWAY SEGMENT IS 1 MILE OR GREATER. IF BIKE LANE IS NOT PROVIDED, TRAVEL LANES SHOULD REMAIN AT DIMENSIONS SHOWN SO A BICYCLE LANE COULD BE PROVIDED IN THE FUTURE. SEE DRAWING NUMBER 244-1 FOR BIKE LANE SIGNING AND STRIPING DETAILS.
3. ALL CURB LANES ARE MEASURED TO LIP OF GUTTER OR EDGE OF PAVEMENT IF CURB AND GUTTER DO NOT EXIST.
4. CONTACT THE LOCAL JURISDICTIONAL FOR DEVELOPMENT REQUIREMENTS FOR THE AREA BETWEEN THE CURB AND SIDEWALK.

Effective 10/08/2020 to 12/09/2020

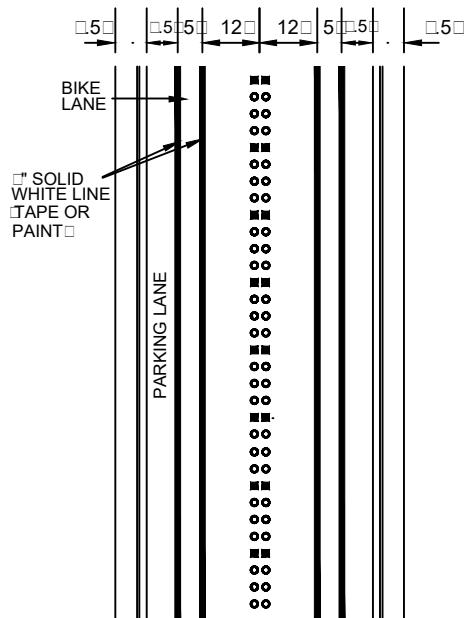
SPECIFICATION REFERENCE		AGENCY APPROVED				L
28	PAINTING TRAFFIC STRIPING	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
33	PAVEMENT MARKERS					
		SUPPLEMENTAL DRAWING				
		TYPICAL DELINEATION FOR ROADWAYS				
		COMPLETE STREET ALTERNATIVE				
		DATE 07-01-12	DWG. NO. 244.S1			



ALTERNATE A



ALTERNATE B



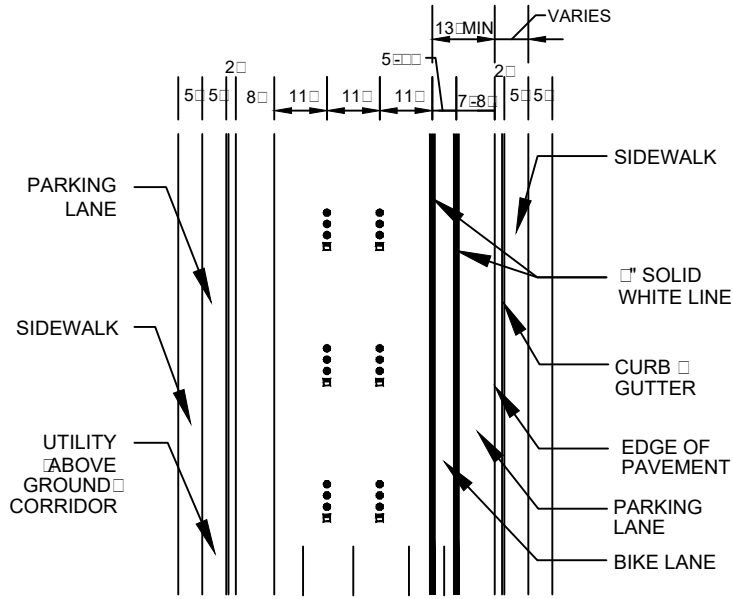
ALTERNATIVE C

NOTES

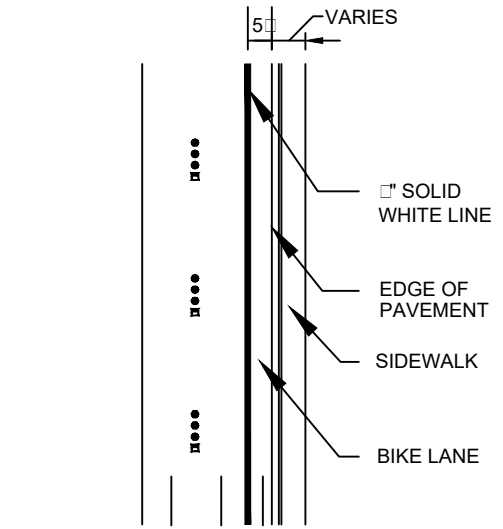
1. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NO. 244 244.1.
2. BIKE LANES MUST BE A MINIMUM OF 4 FT. AND NO GREATER THAN 8 FT. WIDE. HOWEVER, A WIDTH OF 5 FT. IS PREFERRED.
3. ALL CURB LANES ARE MEASURED TO LIP OF GUTTER OR EDGE OF PAVEMENT IF CURB AND GUTTER DO NOT EXIST.

Effective 10/08/2020 to 12/09/2020

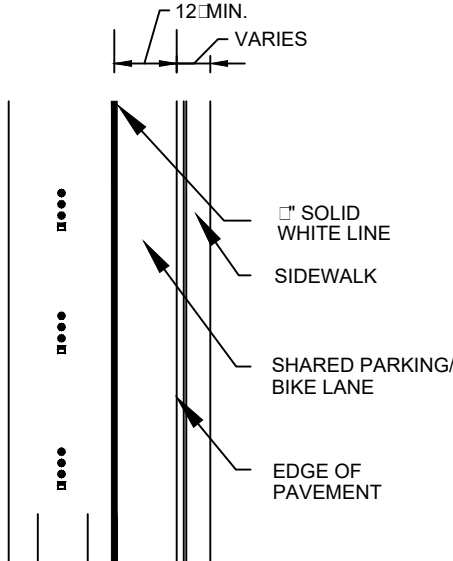
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	TYPICAL DELINEATION FOR BIKE FACILITIES 10 FT. RIGHT-OF-WAY PARKING ON BOTH SIDES						
33	PAVEMENT MARKERS							
		DATE 8-95	DWG. NO.		244.7			



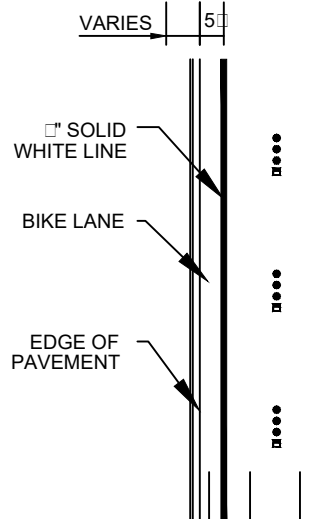
ONE-WAY STREET WITH BIKE LANE
WITH PARKING ON RIGHT SIDE



ONE-WAY STREET WITH BIKE LANE
WITHOUT PARKING ON RIGHT SIDE



ONE-WAY STREET WITH SHARED
BIKE/PARKING LANE



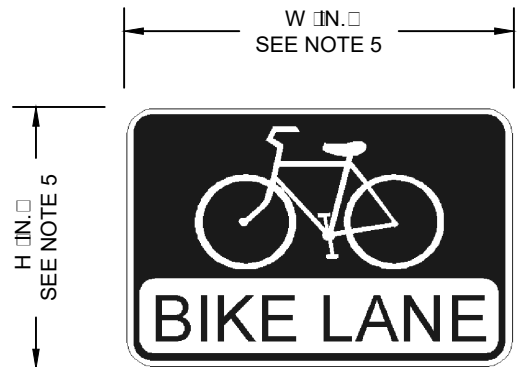
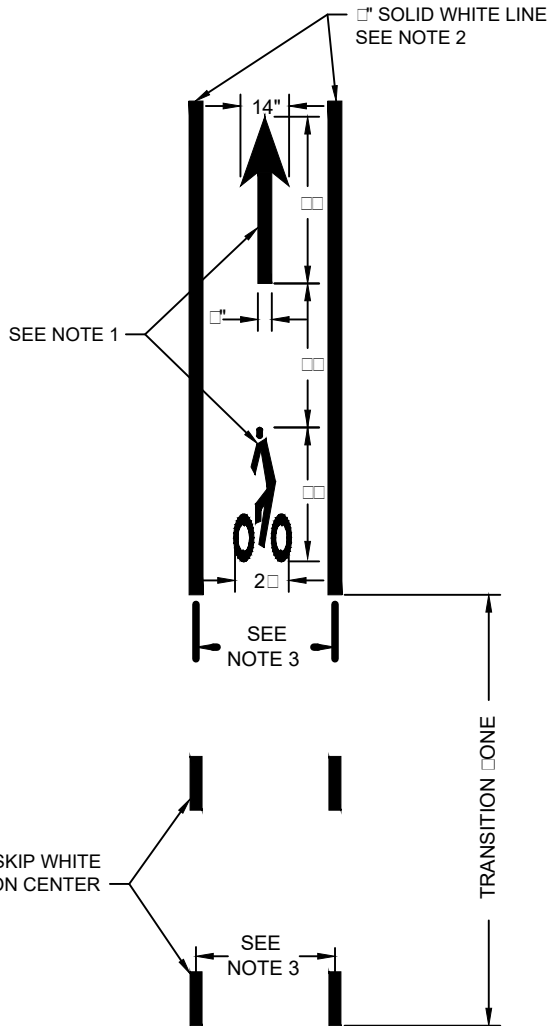
ONE-WAY STREET WITH LEFT-SIDE
BIKE LANE [SEE NOTE 4]

NOTES

1. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWING NO. 244 244.1.
2. BIKE LANES MUST BE A MINIMUM OF 5 FEET WHERE ADJACENT TO A PARKING LANE, 4 FEET MINIMUM IN OTHER CASES AND NO GREATER THAN 8 FEET WIDE.
3. ALL CURB LANES ARE MEASURED TO THE EDGE OF PAVEMENT. THE TOP OF PAVEMENT SHALL BE FLUSH WITH GUTTER.
4. BICYCLE LANE SHALL BE ON RIGHT SIDE OF ONE-WAY ROADWAYS, EXCEPT IN LIMITED SITUATIONS, SUCH AS WHEN THERE ARE SIGNIFICANTLY LESS POTENTIAL CONFLICTS ALONG THE LEFT SIDE OF THE ROADWAY OR WHEN SIGNIFICANT BICYCLE TRIP GENERATION ARE ALONG THE LEFT SIDE OF THE ROADWAY.
5. SEE DRAWING NO. 244.9 FOR BIKE LANE SIGNAGE DETAILS.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
		B	C	H	L	M	N
28 PAINTING TRAFFIC STRIPING		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
33 PAVEMENT MARKERS							
		BICYCLE LANE DELINEATION ON ONE-WAY STREET					
		DATE 7-10-03		DWG. NO. 244.8			



R3-17
BLACK AND WHITE

BIKE LANE SIGNAGE

BIKE LANE DELINEATION AND LEGEND

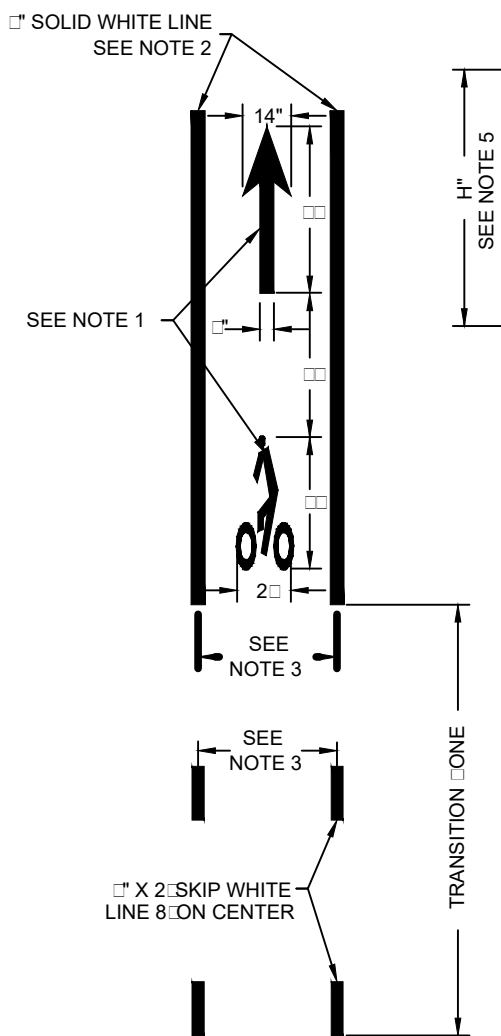
NOTES

1. BIKE LANE LEGENDS SHALL BE APPROVED TYPE I PAVEMENT MARKING FILM AND SHALL BE SLIP RESISTANT.
2. BIKE LANE LINES SHALL BE APPROVED TYPE II PAVEMENT MARKING FILM AND SHALL BE SLIP RESISTANT.
3. BIKE LANES MUST BE A MINIMUM OF 5 FEET WHEN ADJACENT TO A PARKING LANE, 4 FEET MINIMUM IN OTHER CASES AND NO GREATER THAN 8 FT WIDE HOWEVE A WIDTH OF 5 FEET IS PREFERRED.
4. BICYCLE LANE DELINEATION, LEGEND, AND SIGNING SHALL CONFORM TO THE MUTCD, LATEST EDITION.
5. SIGN SIZE AND PLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD, LATEST EDITION.
6. THE BIKE LANE SIGNAGE SHALL BE TYPE XI SHEETING.
7. SIGN PLACEMENT SHALL CONFORM WITH STANDARD DRAWING NO. 249.

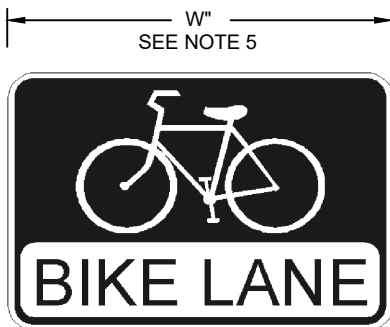
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

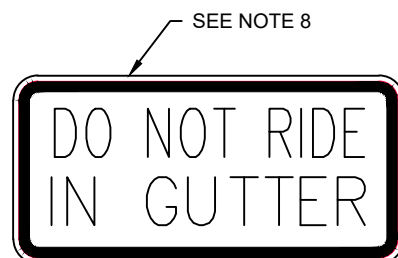
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
BICYCLE LANE DELINEATION, LEGEND, AND SIGNAGE	
DATE 03-12-20	DWG. NO. 244.9



BIKE LANE DELINEATION AND LEGEND

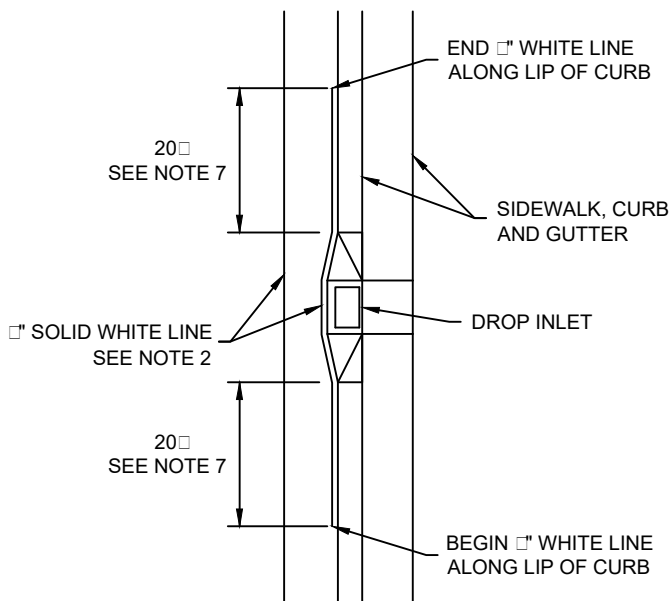


**R3-17
BLACK AND WHITE**



**R3-17B
BLACK AND WHITE**

BIKE LANE SIGNAGE



BIKE LANE DELINEATION AT DROP INLET

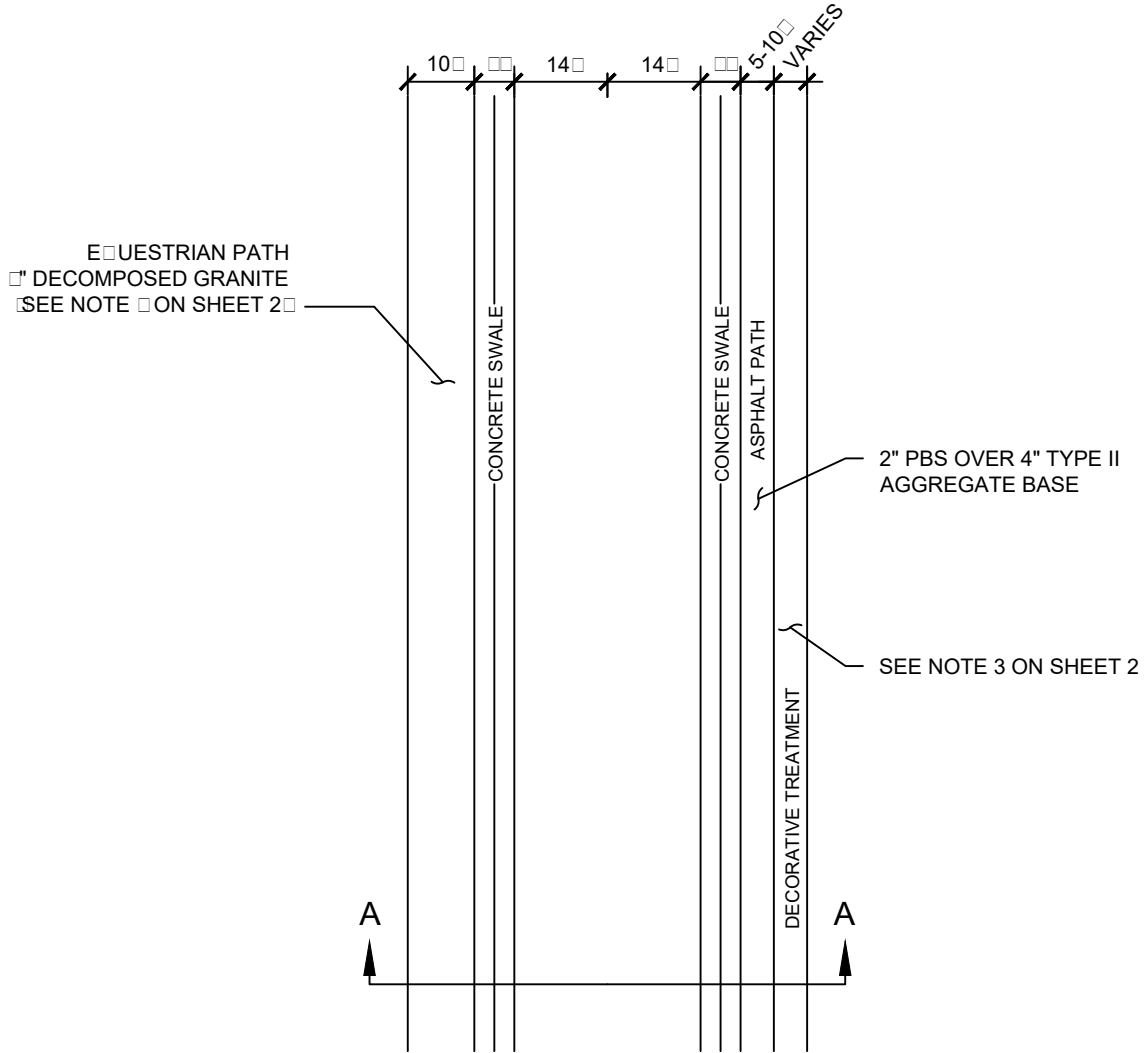
NOTES

1. BIKE LANE LEGENDS SHALL BE APPROVED TYPE I PAVEMENT MARKING FILM AND SHALL BE SLIP RESISTANT.
2. BIKE LANE LINES SHALL BE APPROVED TYPE II PAVEMENT MARKING FILM AND SHALL BE SLIP RESISTANT.
3. BIKE LANES MUST BE A MINIMUM OF 5 FEET WHEN ADJACENT TO A PARKING LANE, 4 FEET MINIMUM IN OTHER CASES AND NO GREATER THAN 8 FT WIDE HOWEVE A WIDTH OF 5 FEET IS PREFERRED.
4. BICYCLE LANE DELINEATION, LEGEND, AND SIGNING SHALL CONFORM TO THE MUTCD LATEST EDITION.
5. SIGN SIZE AND PLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD, LATEST EDITION.
6. THE BIKE LANE SIGNAGE SHALL BE TYPE XI SHEETING.
7. A CONTINUOUS 1/2" WHITE LINE SHALL EXTEND 20" ON EACH SIDE OF THE DROP INLET.
8. INSTALL "DO NOT RIDE IN GUTTER" SIGN IN THE CITY OF LAS VEGAS, SIGN WIDTH TO MATCH R3-17.
9. THE WIDTH OF THE BICYCLE LANE SHALL EXCLUDE THE GUTTER PAN.

Effective 10/08/2020 to 12/09/2020

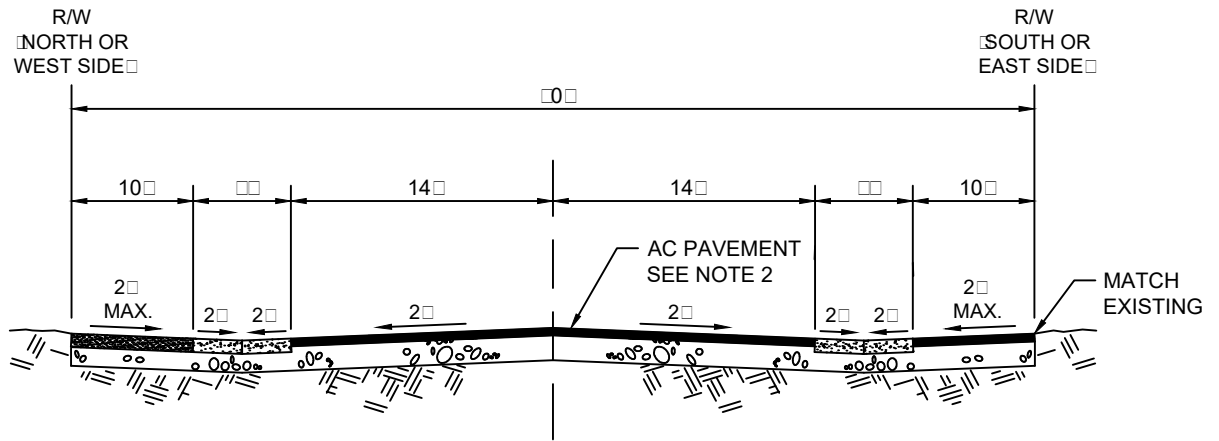
		AGENCY APPROVED				L	
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		SUPPLEMENTAL DRAWING					
		BICYCLE LANE DELINEATION, LEGEND, AND SIGNAGE					
		DATE 01-01-1	DWG. NO.		244.9.S1		

100 FT. ROW



Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						C	L			
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA										
		TYPICAL CONFIGURATION FOR RURAL ROADWAYS 100 FT. RIGHT-OF-WAY										
		DATE 12-12-19		DWG. NO. 244.10				SHEET 1 OF 2				



SECTION A-A

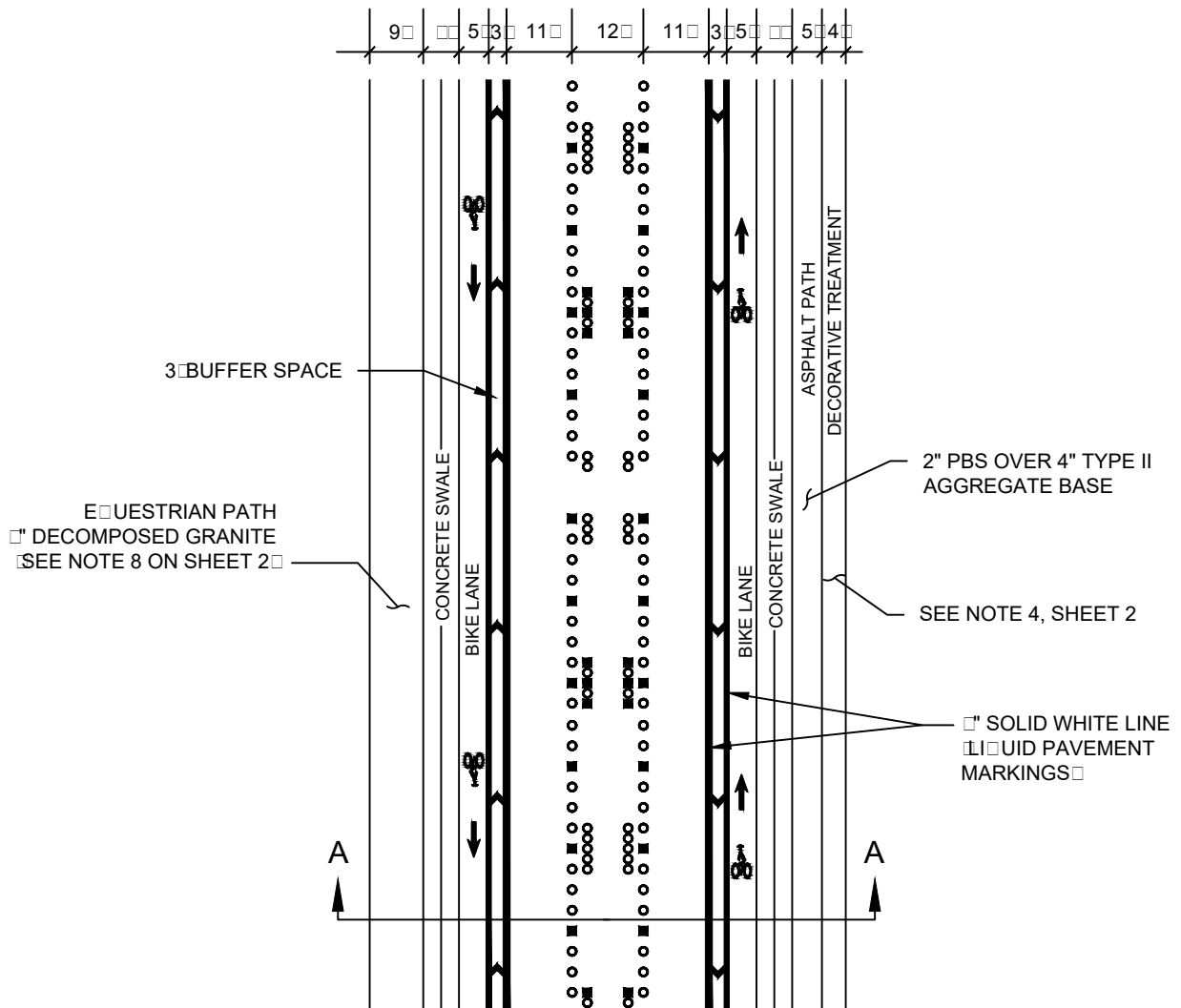
NOTES

1. DRAWING IS ONLY APPLICABLE TO THE CITY OF LAS VEGAS AND UNINCORPORATED AREA OF CLARK COUNTY, IN THE AREA BOUNDED BY CLARK COUNTY 215 BRUCE WOODBURY BELTWAY ON THE WEST AND NORTH, ALEXANDER ROAD ON THE SOUTH AND DURANGO DRIVE ON THE EAST, OR IN OTHER AREAS APPROVED BY THE AGENCY.
2. MINIMUM PAVEMENT STRUCTURE AND DESIGN SHALL CONFORM WITH STANDARD DRAWING 200.1.
3. TREATMENT SHALL CONFORM WITH CLARK COUNTY DEPARTMENT OF AIR QUALITY AND NEVADA DIVISION OF ENVIRONMENTAL PROTECTION REGULATIONS.
4. THE CONCRETE SWALE SHALL BE 24" WIDE AND 8" THICK WITH MINIMAL STEEL REQUIRED PER ACI. WHEN VEHICULAR TRAFFIC IS REQUIRED TO CROSS THE SWALE, IT SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING 228.
5. THE STREET SECTION IS NOT ANTICIPATED TO MEET CCRFC DRAINAGE REQUIREMENTS AND MAY REQUIRE A STORM DRAINAGE SYSTEM AS DETERMINED BY THE APPROVED TECHNICAL DRAINAGE STUDY.
6. IT IS RECOMMENDED THAT THE PEDESTRIAN TRAIL BE LOCATED ON THE NORTH SIDE OF EAST-WEST ROADWAYS OR THE WEST SIDE OF NORTH-SOUTH ROADWAYS.
7. STREET LIGHTS REQUIRED ONLY AT INTERSECTIONS.
8. UTILITY PLACEMENT MUST BE APPROVED BY THE APPROVING AGENCY.

AGENCY APPROVED		C		L		
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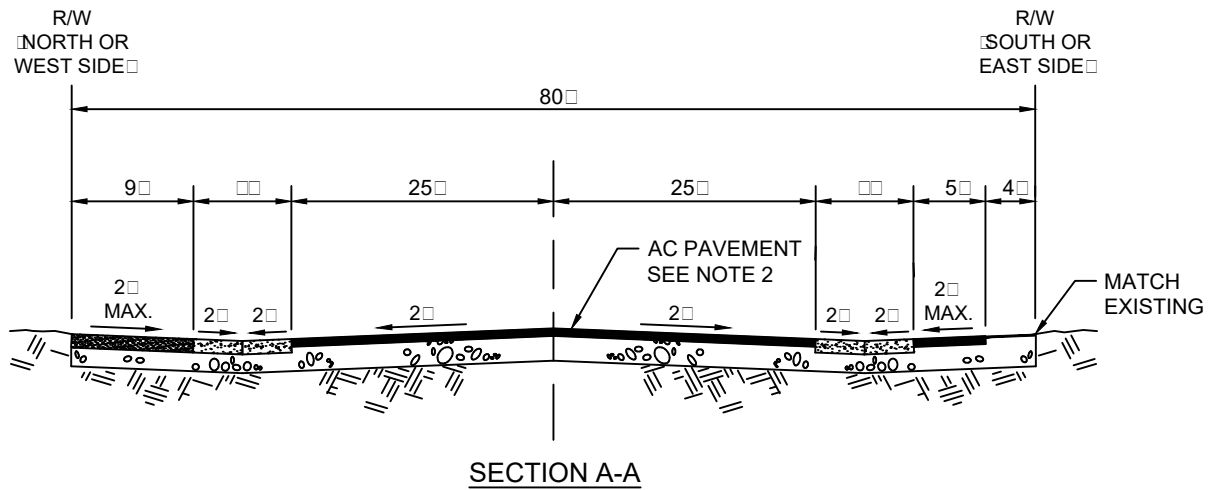
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
		TYPICAL CONFIGURATION FOR RURAL ROADWAYS 60 FT. RIGHT-OF-WAY				
		DATE 12-12-19	DWG. NO. 244.10	SHEET 2 OF 2		

80 FT. ROW



Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED				C	L		
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
		TYPICAL TWO LANE CONFIGURATION FOR RURAL ROADWAYS 80 FT. RIGHT-OF-WAY							
		DATE 12-12-19	DWG. NO. 244.11			SHEET 1 OF 2			



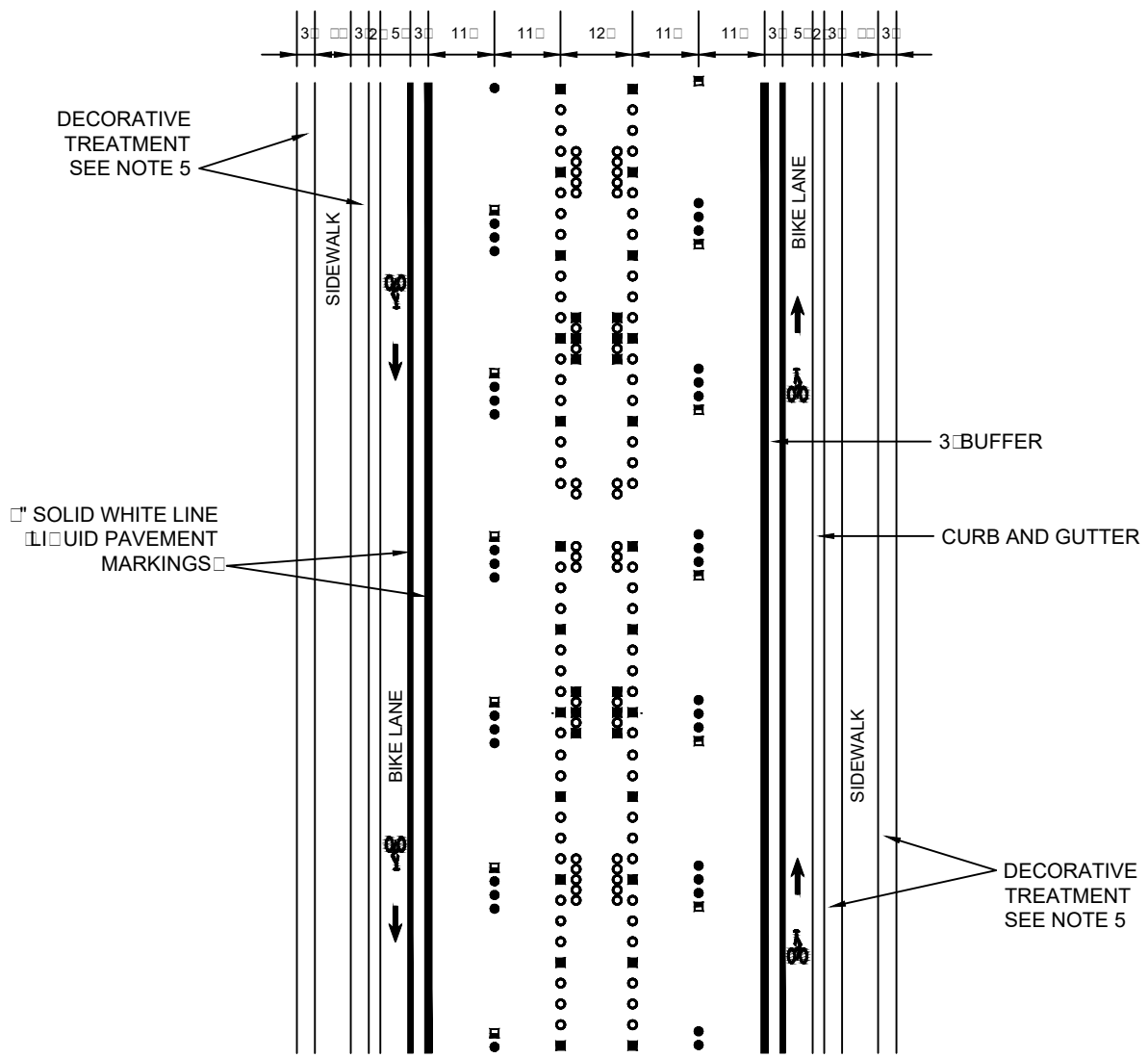
NOTES

1. DRAWING IS ONLY APPLICABLE TO THE CITY OF LAS VEGAS AND UNINCORPORATED AREA OF CLARK COUNTY, IN THE AREA BOUNDED BY CLARK COUNTY 215 BRUCE WOODBURY BELTWAY ON THE WEST AND NORTH, ALEXANDER ROAD ON THE SOUTH, AND DURANGO DRIVE ON THE EAST, OR IN OTHER AREAS APPROVED BY THE AGENCY.
2. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWINGS 244 AND 244.1.
3. MINIMUM PAVEMENT STRUCTURE AND DESIGN SHALL CONFORM WITH STANDARD DRAWING 200.
4. TREATMENT SHALL CONFORM WITH CLARK COUNTY DEPARTMENT OF AIR QUALITY AND NEVADA DIVISION OF ENVIRONMENTAL PROTECTION REGULATIONS.
5. THE CONCRETE SWALE SHALL BE 2' WIDE AND 4" THICK WITH MINIMAL STEEL REINFORCED PER ACI. WHEN VEHICULAR TRAFFIC IS REQUIRED TO CROSS THE SWALE, IT SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING 228.
6. THE STREET SECTION IS NOT ANTICIPATED TO MEET CCRFCD DRAINAGE REQUIREMENTS AND MAY REQUIRE A STORM DRAINAGE SYSTEM AS DETERMINED BY THE APPROVED TECHNICAL DRAINAGE STUDY.
7. RAISED LANDSCAPE MEDIAN MAY BE REQUIRED BY CLARK COUNTY.
8. IT IS RECOMMENDED THAT THE PEDESTRIAN TRAIL BE LOCATED ON THE NORTH SIDE OF EAST-WEST ROADWAYS OR THE WEST SIDE OF NORTH-SOUTH ROADWAYS.
9. STREET LIGHTS REQUIRED ON ONE SIDE OF THE STREET AND AT INTERSECTIONS.
10. UTILITY PLACEMENT MUST BE APPROVED BY THE APPROVING AGENCY.

AGENCY APPROVED		C					
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SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		TYPICAL TWO LANE CONFIGURATION FOR RURAL ROADWAYS 80 FT. RIGHT-OF-WAY					
		DATE 12-12-19	DWG. NO. 244.11			SHEET 2 OF 2	

100 FT. ROW

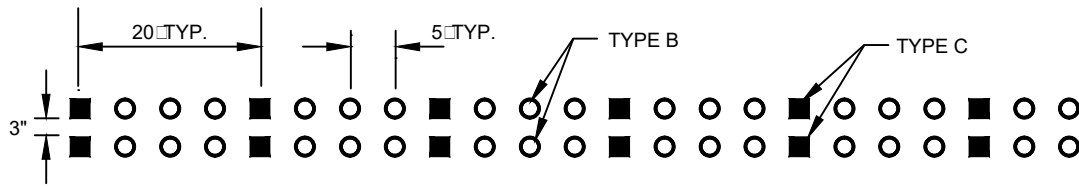


NOTES

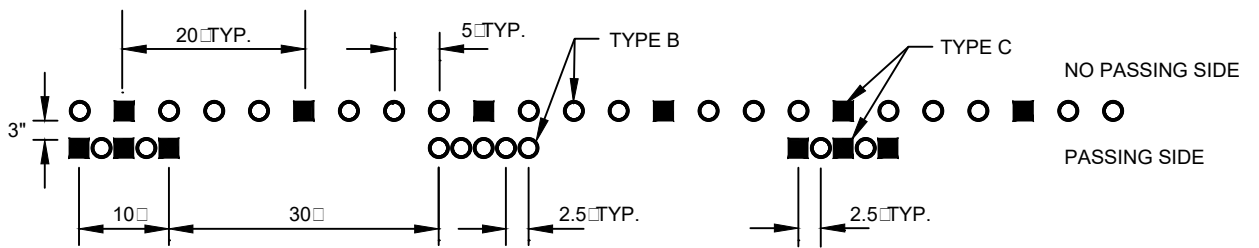
1. DRAWING IS ONLY APPLICABLE TO THE UNINCORPORATED AREA OF CLARK COUNTY, IN THE AREA BOUNDED BY CLARK COUNTY 215 BRUCE WOODBURY BELTWAY ON THE WEST AND NORTH, ALEXANDER ROAD ON THE SOUTH, AND DURANGO DRIVE ON THE EAST.
2. LANE LINE DELINEATION SHALL COMPLY WITH STANDARD DRAWINGS 244 AND 244.1.
3. MINIMUM PAVEMENT STRUCTURE AND DESIGN SHALL CONFORM WITH STANDARD DRAWING 200.
4. RAISED LANDSCAPE MEDIAN MAY BE REQUIRED BY CLARK COUNTY.
5. TREATMENT SHALL CONFORM WITH CLARK COUNTY DEPARTMENT OF AIR QUALITY AND NEVADA DIVISION OF ENVIRONMENTAL PROTECTION REGULATIONS.

	AGENCY APPROVED		C	L		
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
	TYPICAL CONFIGURATION FOR RURAL ROADWAYS 100 FT. RIGHT-OF-WAY					
	DATE 09-12-19	DWG. NO. 244.12				

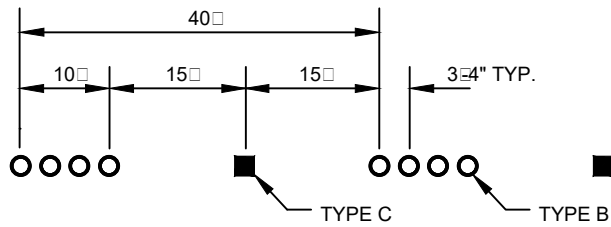
Effective 10/08/2020 to 12/09/2020



TYPE 1 CENTERLINE



TYPE 2 CENTERLINE

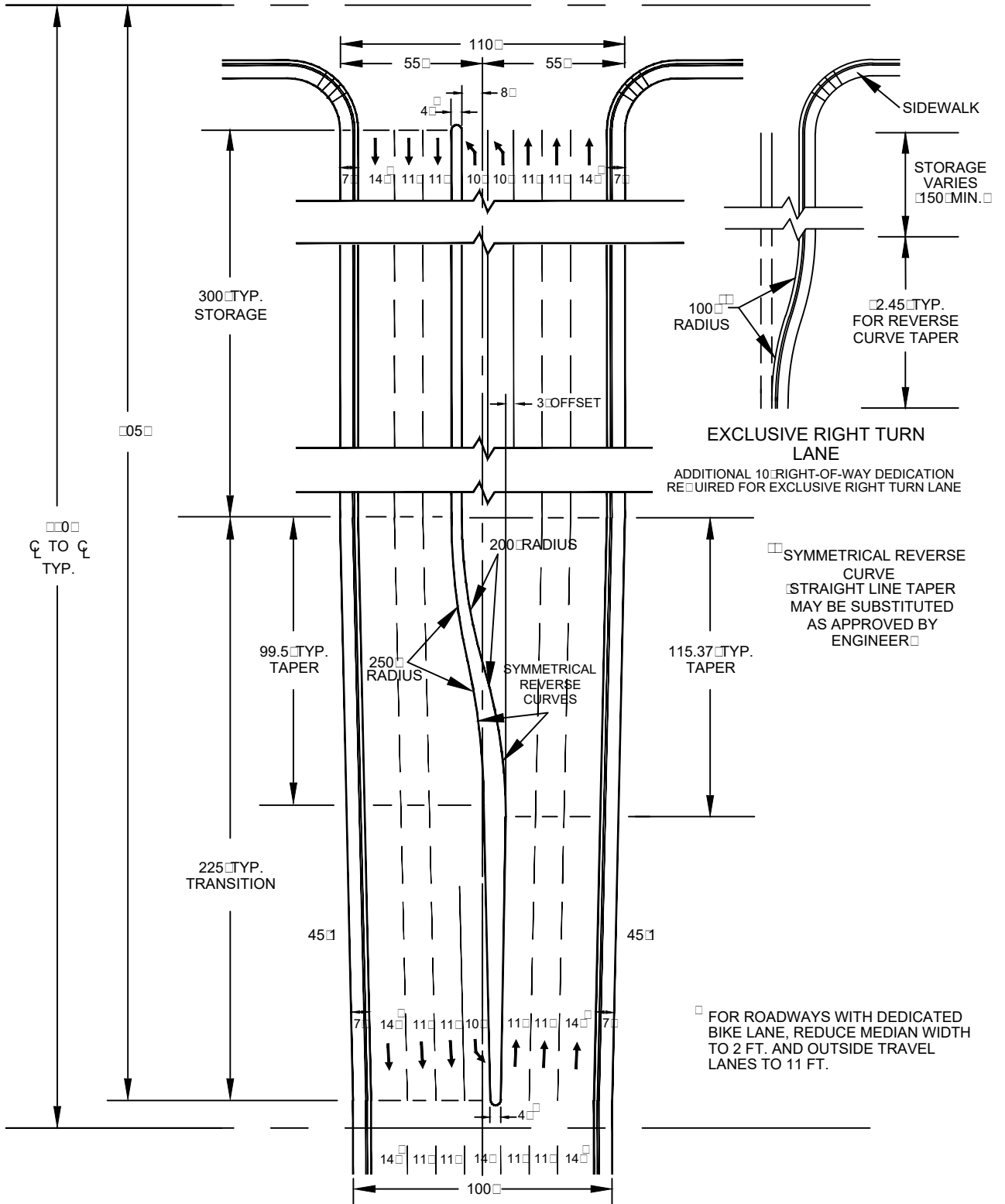


TYPE 3 CENTERLINE

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
33	PAVEMENT MARKERS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPICAL CENTERLINE DELINEATION						
		DATE 11-93	DWG. NO.	244				

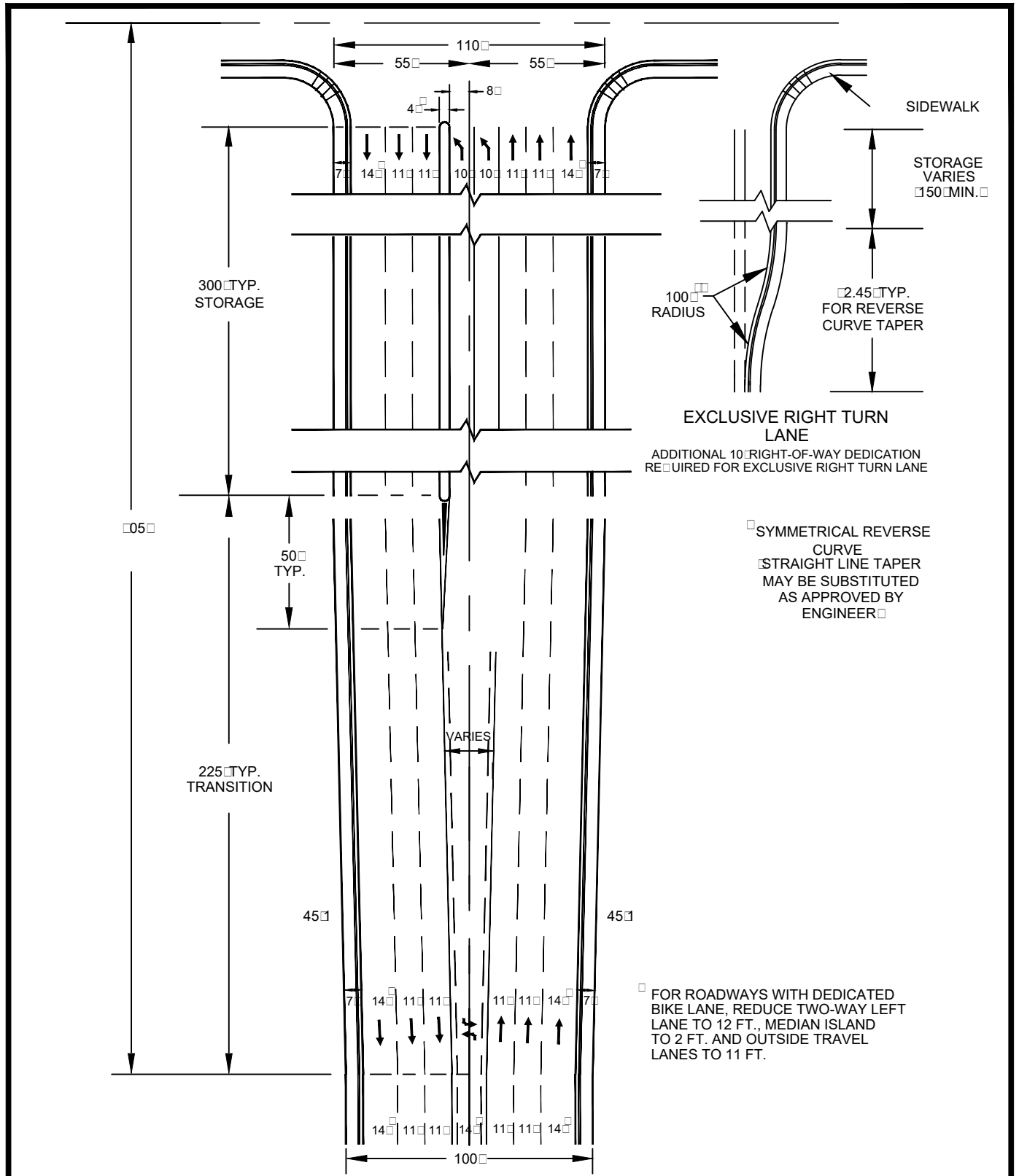
Effective 10/08/2020 to 12/09/2020



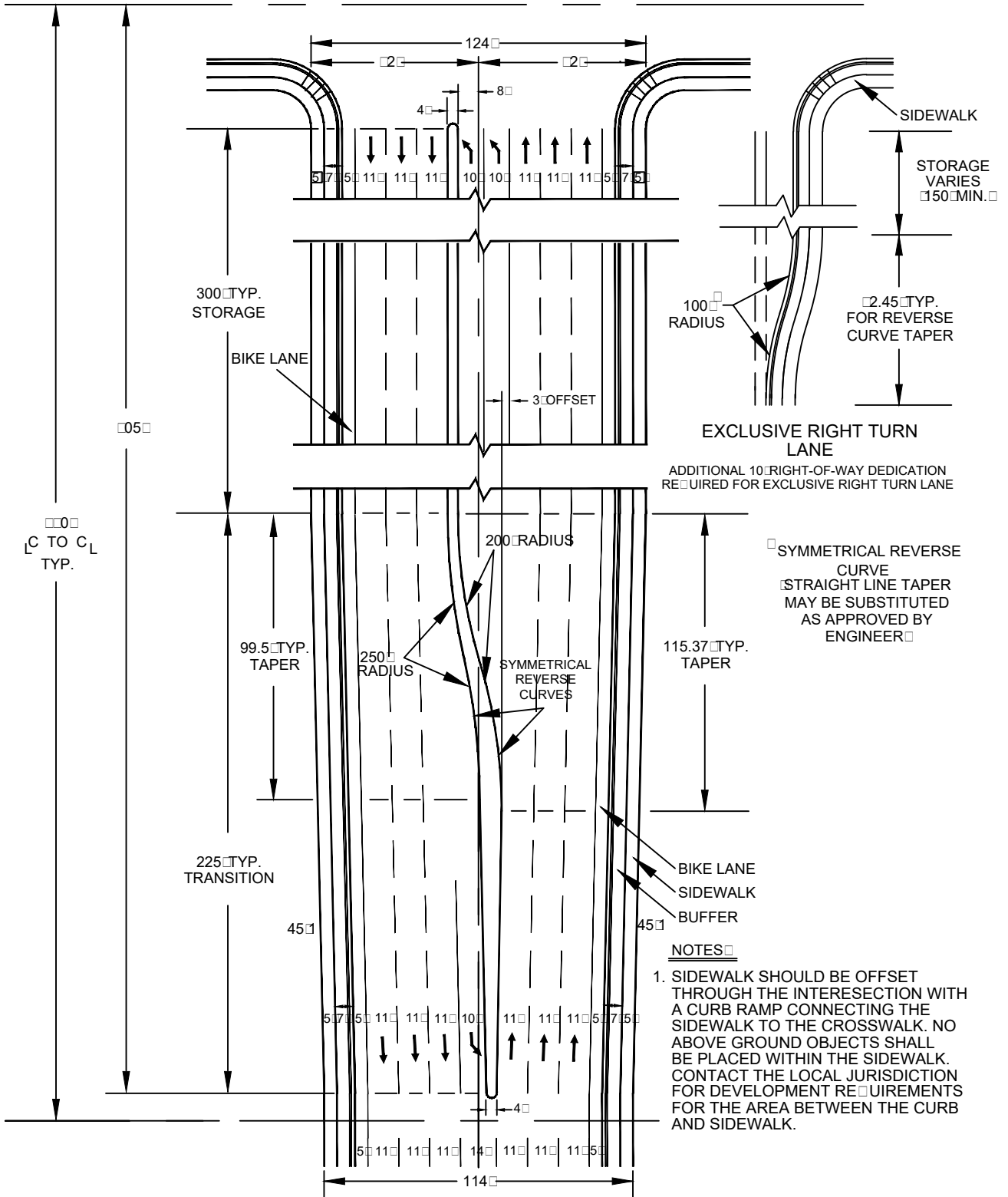
AGENCY APPROVED							B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA												
TYPICAL LANE CONFIGURATION FOR MAJOR STREET INTERSECTIONS AND MEDIAN DETAIL CASE I - WITH CURBSIDE SIDEWALK												
DATE 7-10-03				DWG. NO. 245.1				SHEET 1 OF 2				

SPECIFICATION REFERENCE	

Effective 10/08/2020 to 12/09/2020

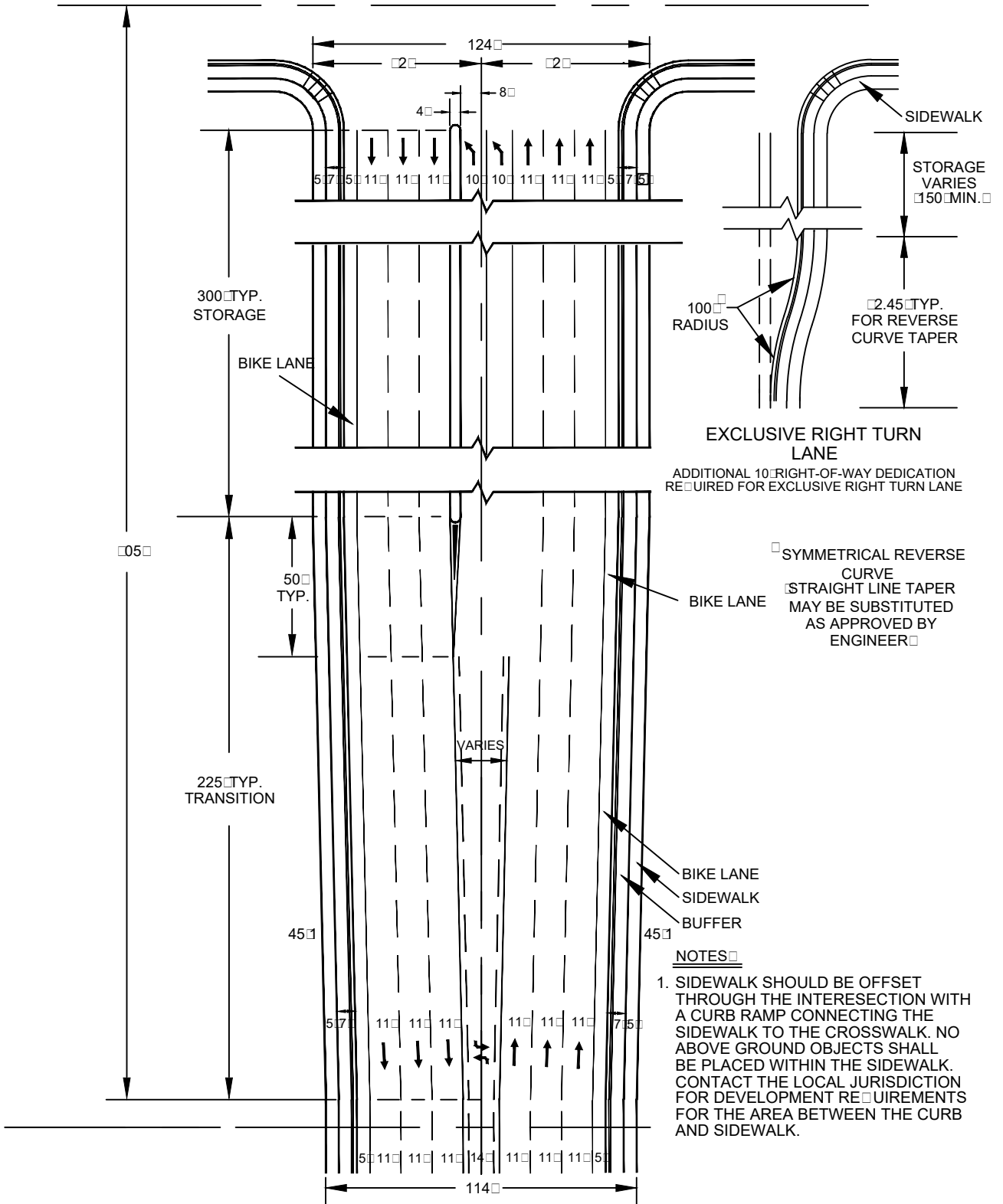


		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPICAL LANE CONFIGURATION FOR MAJOR STREET INTERSECTIONS AND MEDIAN DETAIL CASE II - WITH CURBSIDE SIDEWALK						
		DATE	7-10-03	DWG. NO.	245.1	SHEET 2 OF 2		



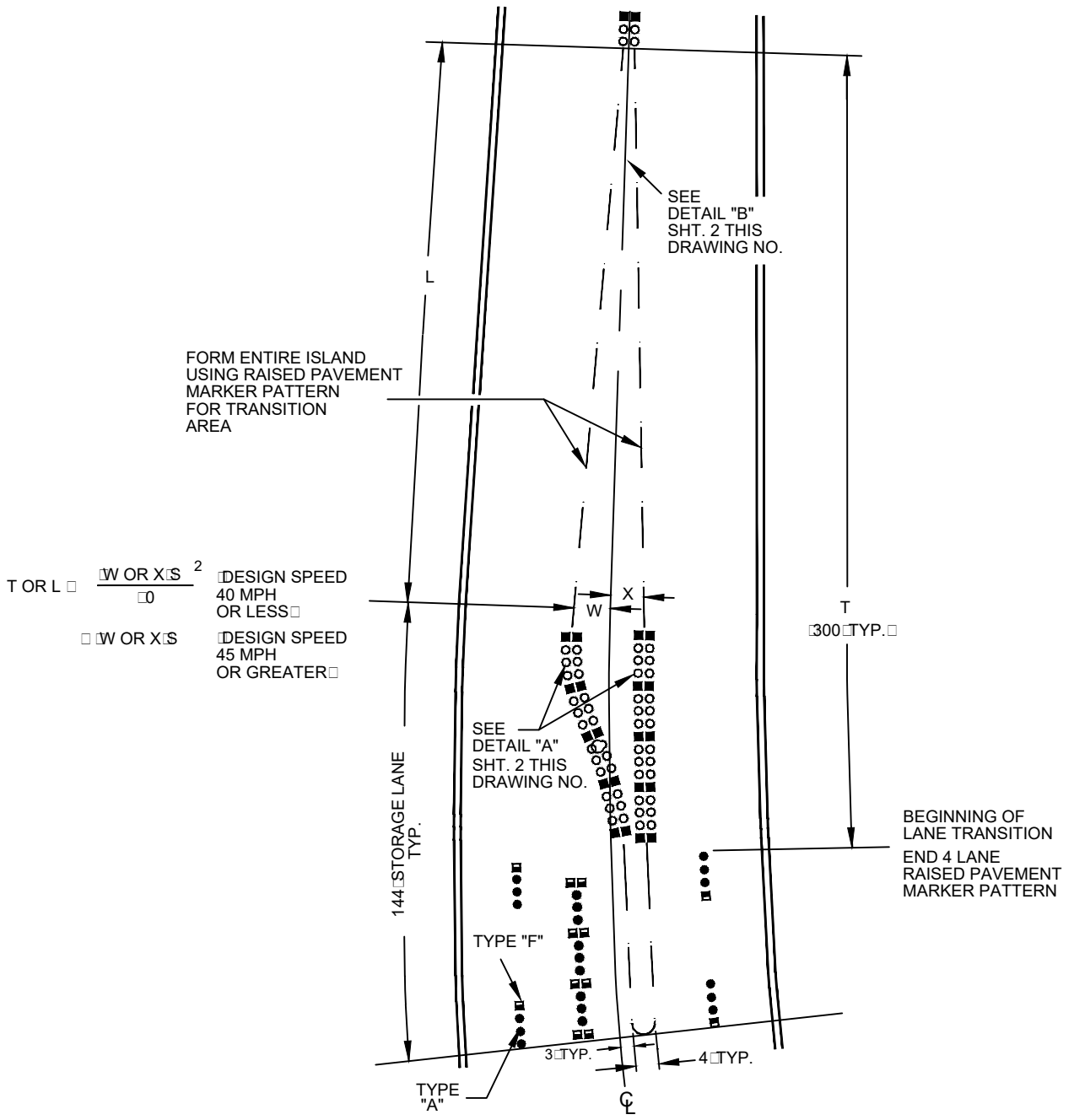
	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	TYPICAL LANE CONFIGURATION FOR MAJOR STREET INTERSECTIONS AND MEDIAN DETAIL CASE I - WITH OFFSET SIDEWALK						
	DATE 7-10-03	DWG. NO.	245.2		SHEET 1 OF 2		

Effective 10/08/2020 to 12/09/2020



- NOTES**
- SIDEWALK SHOULD BE OFFSET THROUGH THE INTERSECTION WITH A CURB RAMP CONNECTING THE SIDEWALK TO THE CROSSWALK. NO ABOVE GROUND OBJECTS SHALL BE PLACED WITHIN THE SIDEWALK. CONTACT THE LOCAL JURISDICTION FOR DEVELOPMENT REQUIREMENTS FOR THE AREA BETWEEN THE CURB AND SIDEWALK.

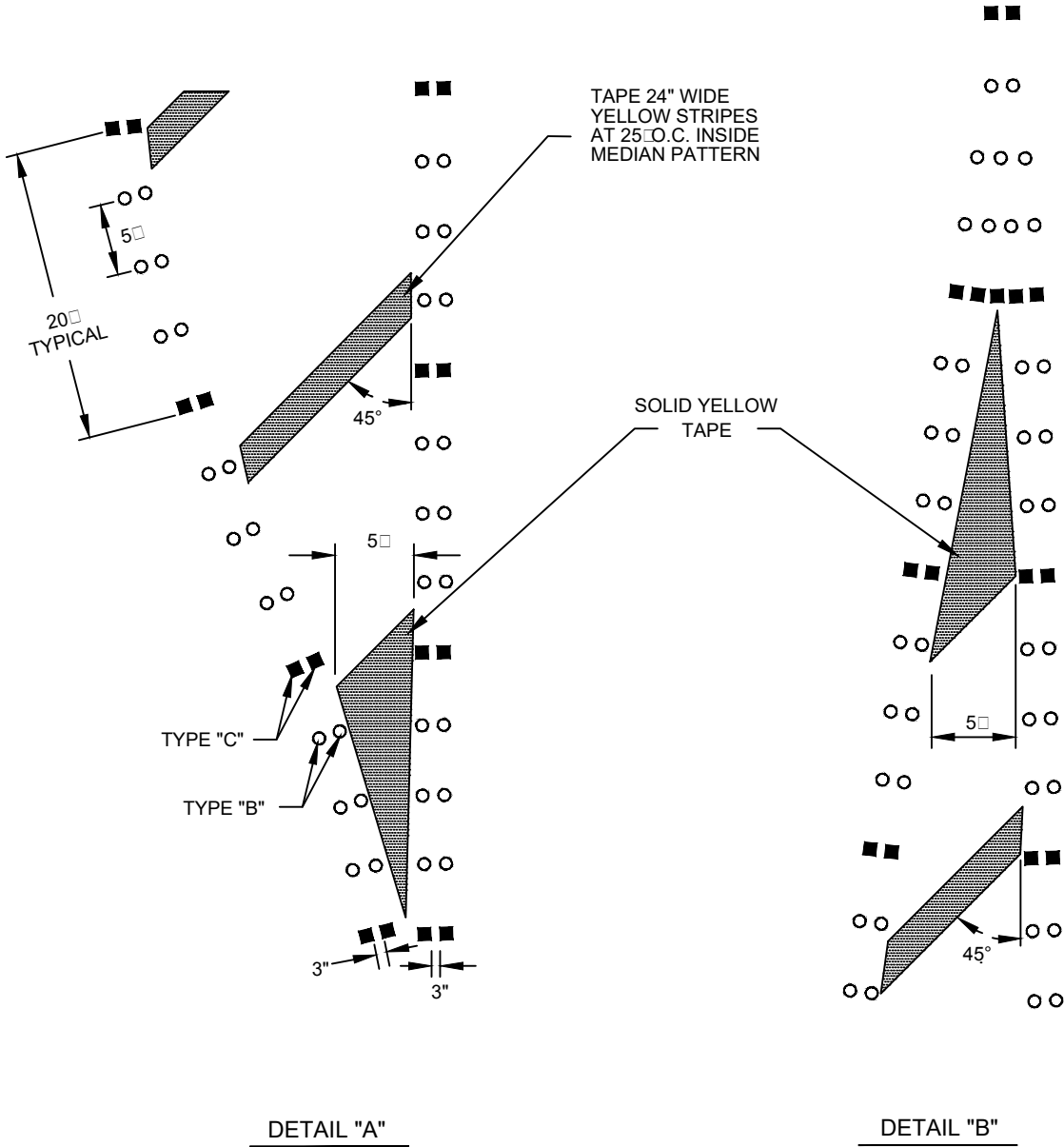
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPICAL LANE CONFIGURATION FOR MAJOR STREET INTERSECTIONS AND MEDIAN DETAIL CASE II - WITH OFFSET SIDEWALK						
		DATE 7-10-03	DWG. NO.		245.2		SHEET 2 OF 2	



NOTE

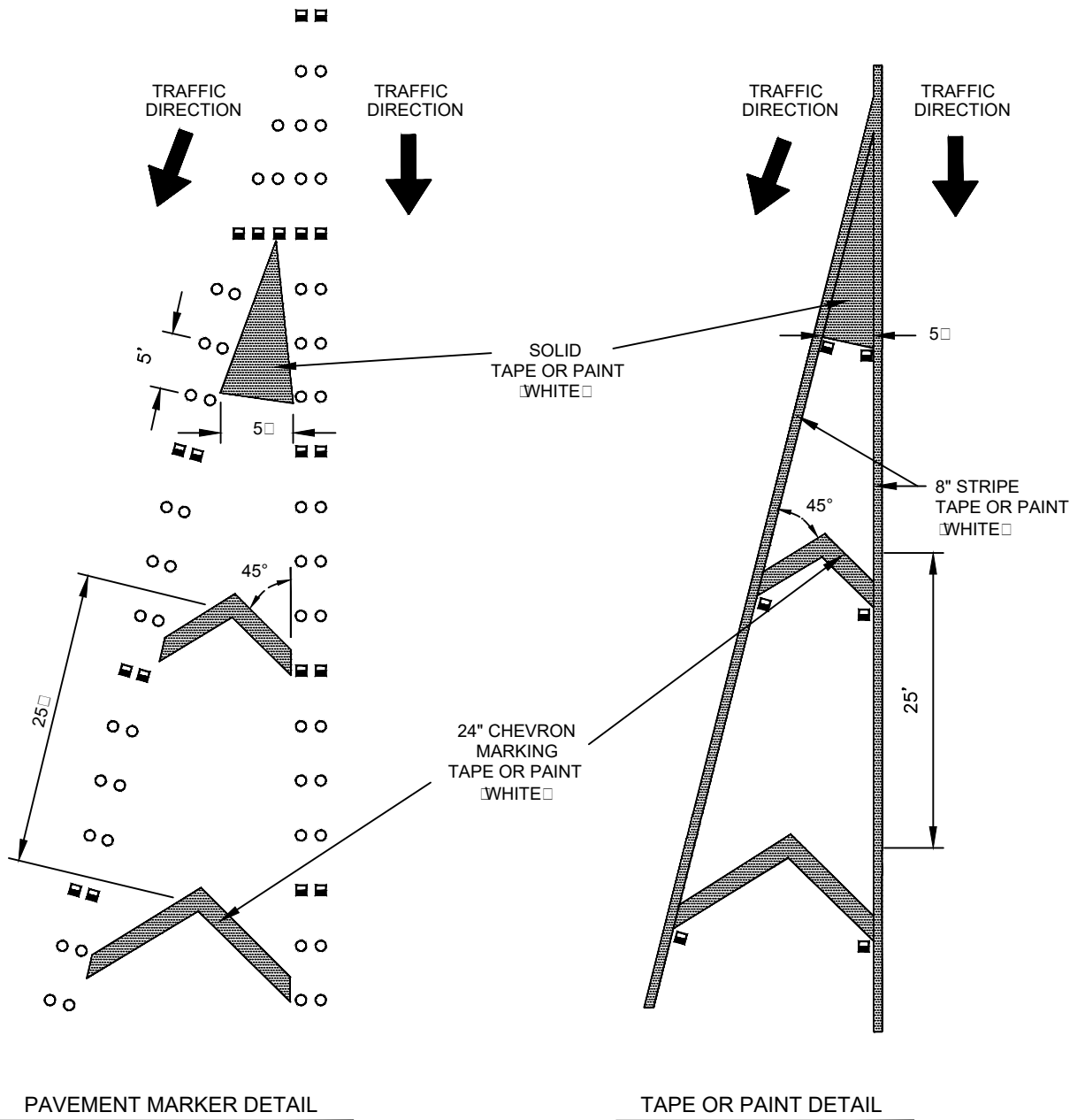
SEE SHEET 3 THIS DRAWING NUMBER IF PATTERN IS TO BE USED AT A GORE POINT TO DIVIDE TRAFFIC MOVING IN SAME DIRECTION.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	TYPICAL LANE DELINEATION IN TRANSITION SECTIONS						
33	PAVEMENT MARKERS							
		DATE 11-93	DWG. NO.	245	SHEET 1 OF 3			

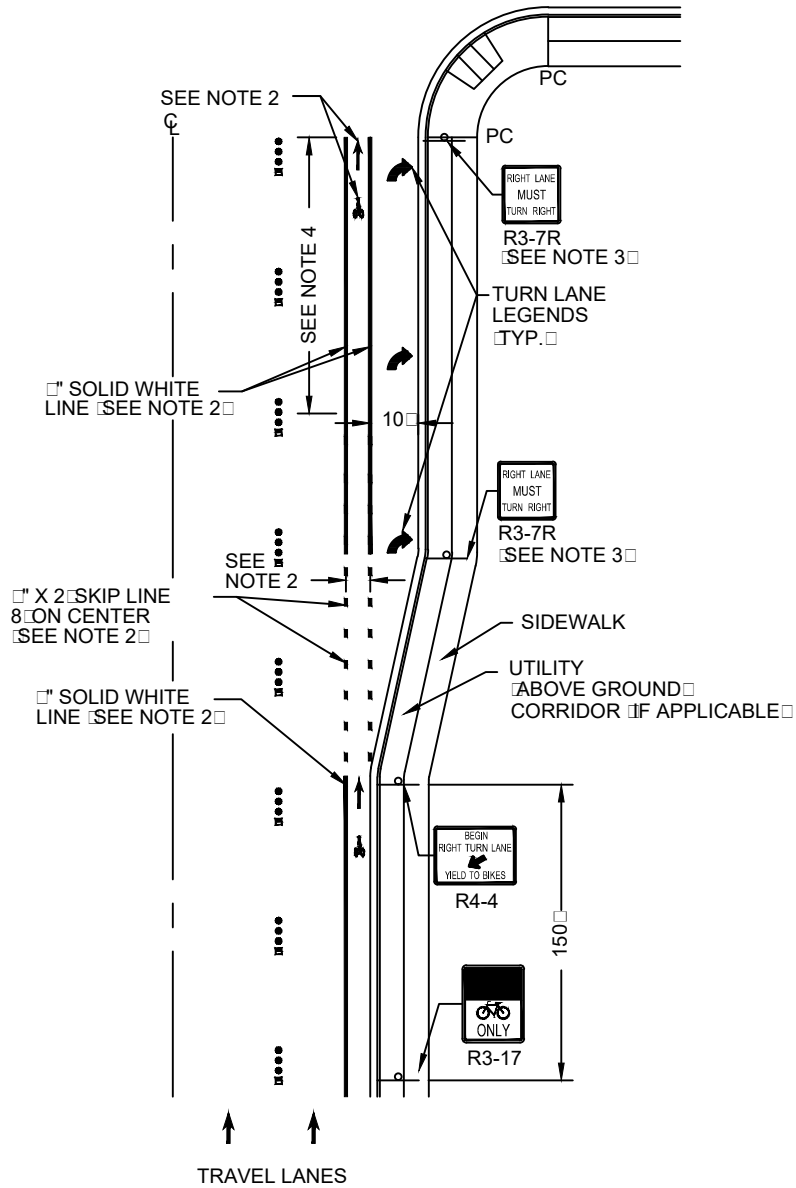


NOTE
 PAINT MAY BE USED IN LIEU OF TAPE AND/OR RAISED PAVEMENT MARKERS AT THE DISCRETION OF THE ENGINEER.

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
28	PAINTING TRAFFIC STRIPING	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
33	PAVEMENT MARKERS	DETAILS FOR TYPICAL LANE DELINEATION IN TRANSITION SECTIONS						
DATE	11-93	DWG. NO.	245	SHEET 2 OF 3				



SPECIFICATION REFERENCE		AGENCY APPROVED					
<input type="checkbox"/> 28	PAINTING TRAFFIC STRIPING	B	C	H	L	M	N
<input type="checkbox"/> 33	PAVEMENT MARKERS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		TYPICAL LANE DELINEATION IN TRANSITION SECTIONS WHERE TRAFFIC FLOW IN SAME DIRECTION					
		DATE	<input type="checkbox"/> -11-93	DWG. NO.	245	SHEET 3 OF 3	

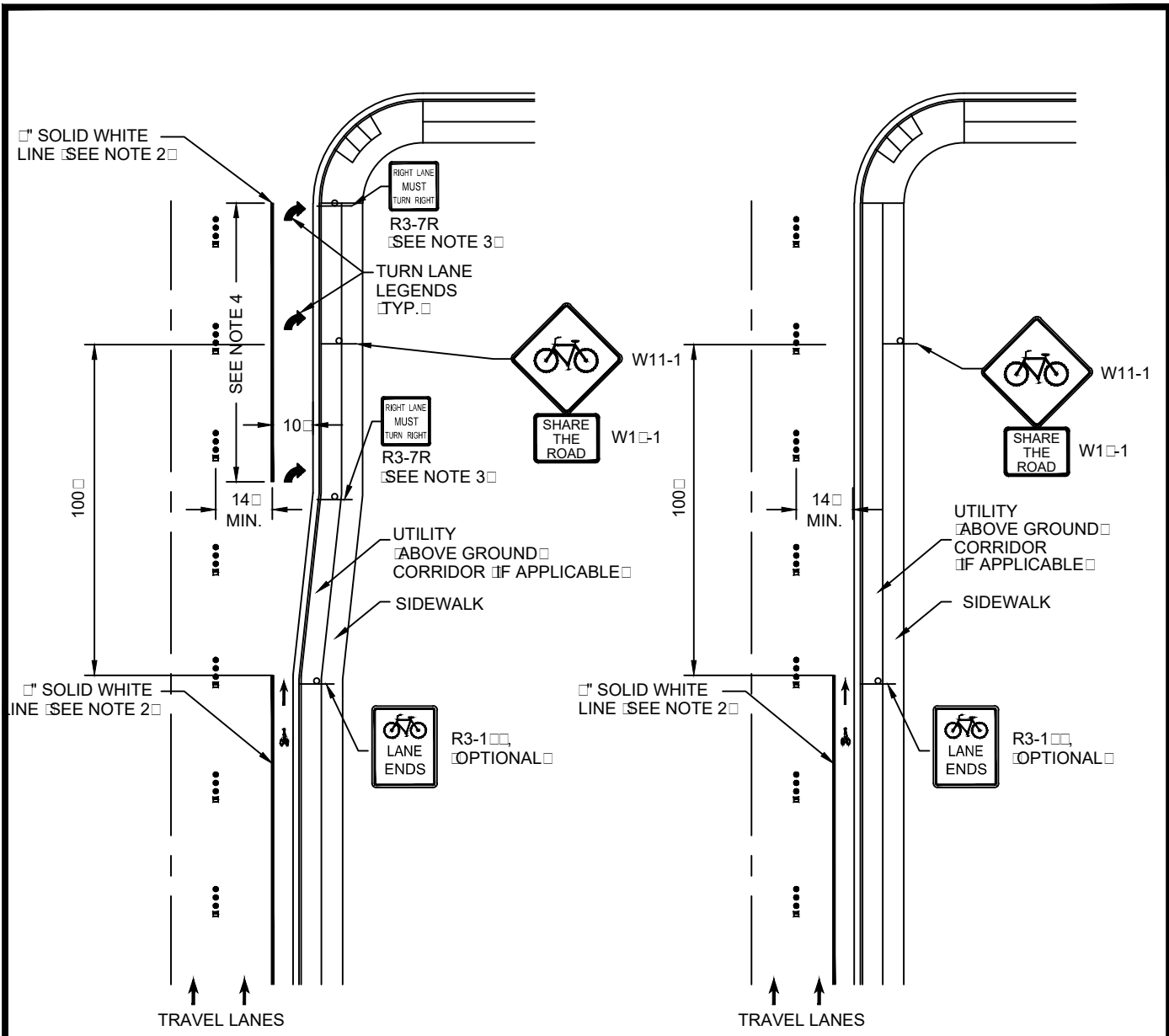


NOTES

1. STORAGE LENGTH TO BE DETERMINED BY TRAFFIC ENGINEER.
2. SEE DRAWING NO. 244.9 FOR BIKE LANE LEGEND AND SIGNAGE.
3. WHERE ADDITIONAL MOTORIST GUIDANCE IS DEEMED NECESSARY BY THE TRAFFIC ENGINEER, INSTALL R3-7R SIGN AND ARROW SYMBOL PAVEMENT MARKINGS FOR THE LENGTH OF THE STORAGE LINE. APPROVED TYPE II PAVEMENT MARKING FILM SHALL BE USED FOR SYMBOL MARKINGS.
4. SEE DRAWING NO. 24 NOTE 1 FOR STANDARD PAVEMENT MARKERS ADDED TURN LANE.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	BICYCLE LANE APPROACH TO INTERSECTION WITH EXCLUSIVE RIGHT TURN LANE						
33	PAVEMENT MARKERS							
DATE 09-11		DWG. NO.		24-1				



WITH EXCLUSIVE RIGHT-TURN LANE

WITHOUT EXCLUSIVE RIGHT-TURN LANE

NOTES

1. STORAGE LENGTH TO BE DETERMINED BY TRAFFIC ENGINEER.
2. SEE DRAWING NUMBER 244.9 FOR BIKE LANE LEGEND AND SIGNAGE.
3. WHERE ADDITIONAL MOTORIST GUIDANCE IS DEEMED NECESSARY BY THE ENGINEER, INSTALL R3-7R SIGN AND ARROW SYMBOL PAVEMENT MARKINGS FOR THE LENGTH OF THE STORAGE LINE. APPROVED TYPE II PAVEMENT MARKING FILM SHALL BE USED FOR SYMBOL MARKINGS.
4. SEE DWG. 24 NOTE 1 FOR STANDARD PAVEMENT MARKERS ADDED TURN LANE.
5. THE ABOVE DETAIL SHOULD BE FOLLOWED IN SITUATIONS WHERE THERE IS NOT ADEQUATE SPACE TO PROVIDE A SEPARATE BICYCLE LANE.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	BICYCLE LANE TRANSITION TO SHARED LANE AT INTERSECTION						
33	PAVEMENT MARKERS							
DATE	09-11	DWG. NO.	242					

4" SOLID WHITE LINE (SEE NOTE 2)

RIGHT LANE MUST TURN RIGHT
R3-7R

STORAGE LANE (SEE NOTE 3)

TURN LANE LEGENDS (TYP.)

ONLY

RIGHT LANE MUST TURN RIGHT
R3-7R

X 2 SKIP LINE 8" ON CENTER (SEE NOTE 2)

10"

4" MIN.

80"

100"

(SEE NOTE 3)

80"

4" SOLID WHITE LINE (SEE NOTE 2)

11" MIN.

150"

TRAVEL LANES



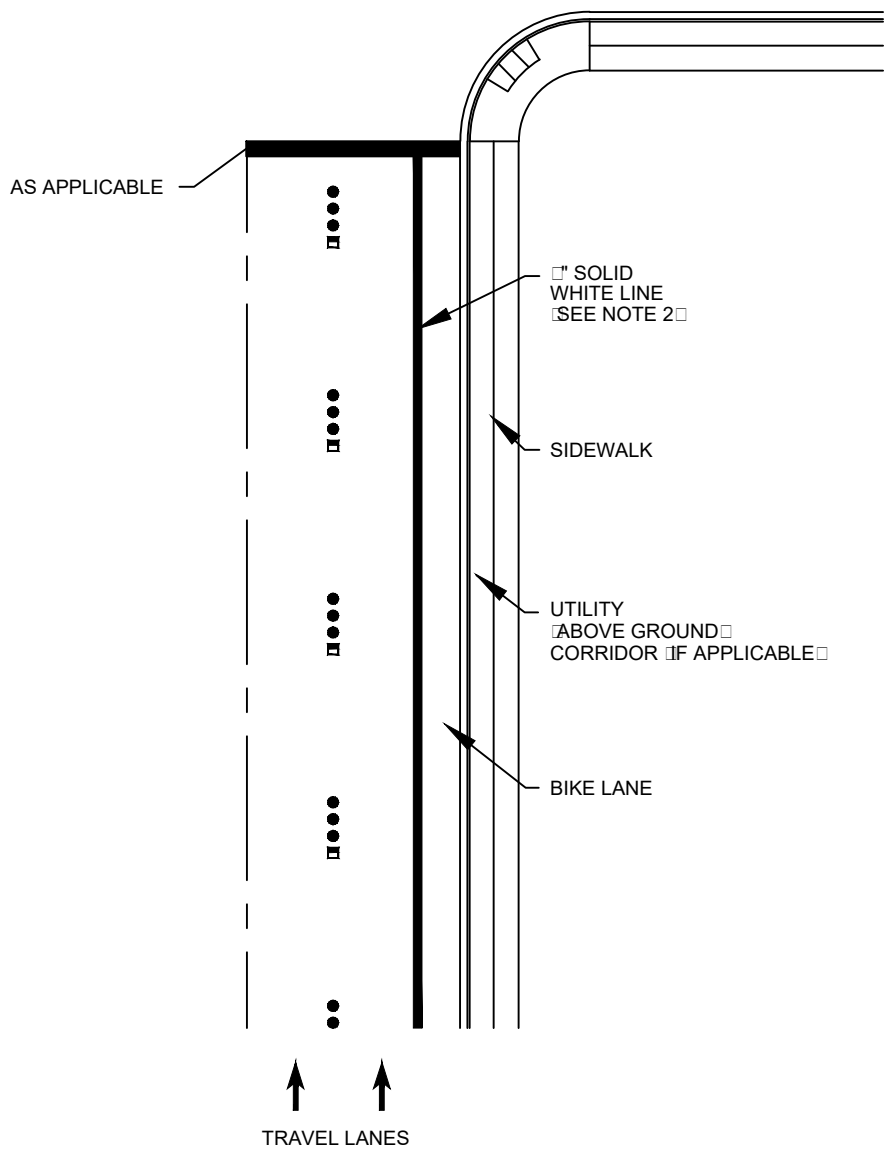
R3-17 (SEE NOTE 3)

NOTES

1. FORCED RIGHT-TURN LANES AND LONG RIGHT TURN POCKETS ARE NOT DESIRABLE FOR BICYCLISTS AND SHOULD BE AVOIDED WHEN POSSIBLE.
2. SEE DRAWING NO. 244.9 FOR BIKE LANE DELINEATION, LEGEND, AND SIGNAGE DETAILS.
3. SEE DRAWING NO. 24 FOR DETAILS ON THE FORCED TURN LANE.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	BICYCLE LANE AT A RIGHT TURN DROP LANE						
33	PAVEMENT MARKERS							
DATE	7-10-03	DWG. NO.	24	3				

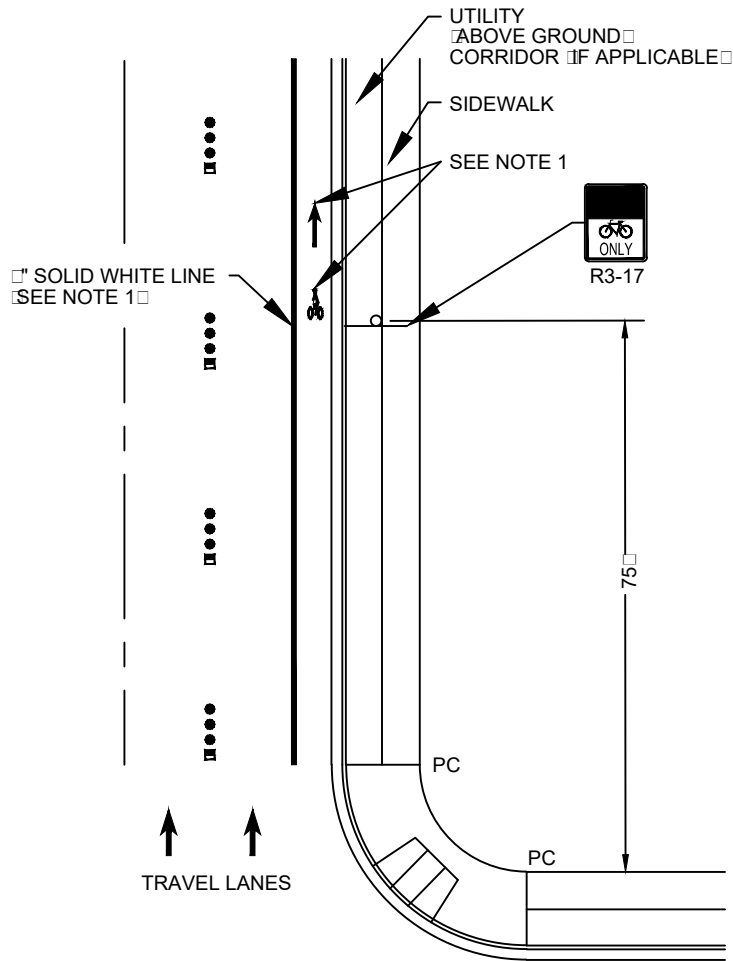


NOTES

1. A SOLID BICYCLE LANE STRIPE SHOULD CONTINUE ACROSS DRIVEWAY ACCESS POINTS.
2. SEE DRAWING NO. 244.9 FOR BIKE LANE LEGEND AND SIGNAGE DETAILS.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
□28	PAINTING TRAFFIC STRIPING	B	C	H	L	M	N
□33	PAVEMENT MARKERS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		BICYCLE LANE DELINEATION AT APPROACH TO INTERSECTION WITHOUT EXCLUSIVE RIGHT TURN LANE					
		DATE	7-10-03	DWG. NO.	24□4		



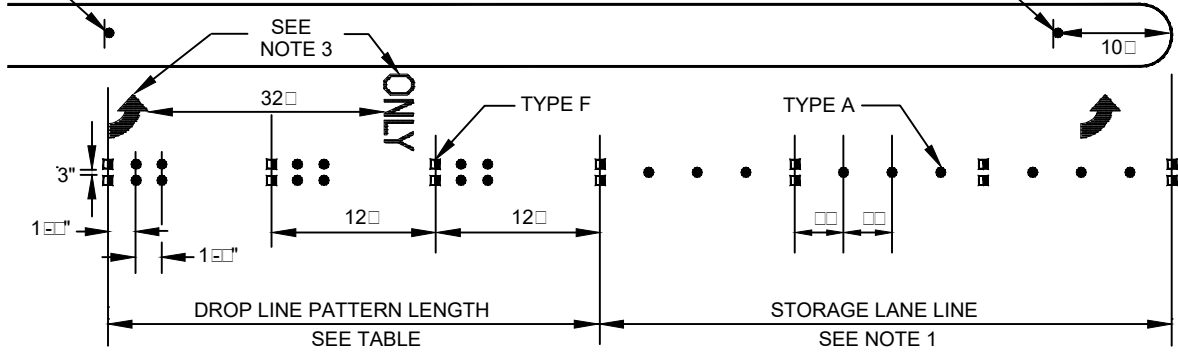
NOTES

1. SEE DRAWING NUMBER 244.9 FOR BIKE LANE LEGEND AND SIGNAGE DETAILS.
2. USE 2 FOOT LONG SKIP LINE, 8 FEET ON CENTER, FOR LOCATIONS WITH BUS STOPS. FOR TYPICAL BUS STOP, TRANSITION FROM SOLID LINE TO SKIP LINE FOR 150 FEET CENTERED ON BUS STOP.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	BICYCLE LANE DEPARTURE FROM INTERSECTIONS						
33	PAVEMENT MARKERS							
		DATE	7-10-03	DWG. NO.	245			

SEE NOTE 2

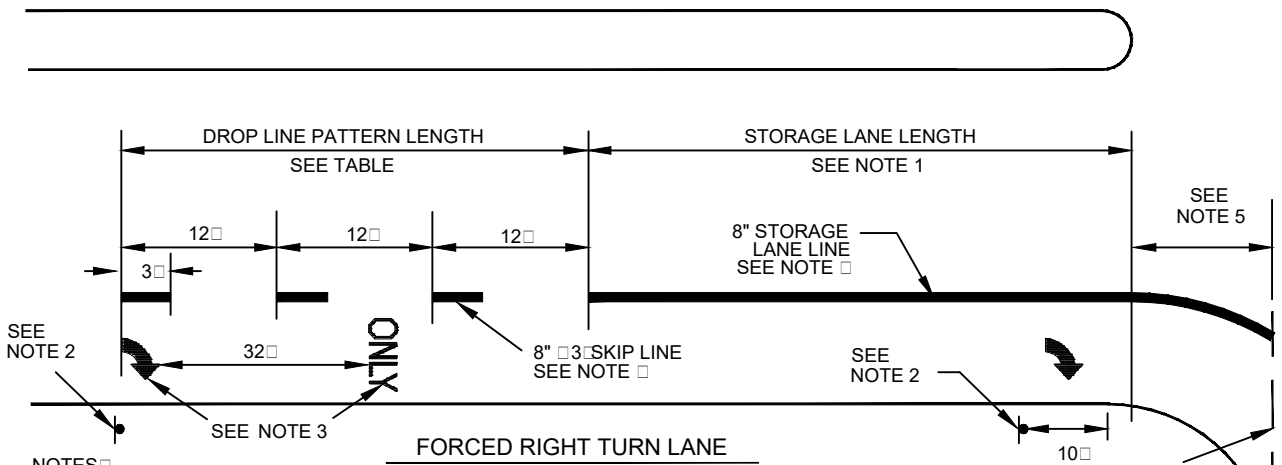
SEE NOTE 2



TYP. DROP LINE LENGTHS

POSTED SPEED [MPH]	LENGTH [FT]
25	240
30	320
35	400
40	480
45	560
50	640
55	720

FORCED LEFT TURN LANE



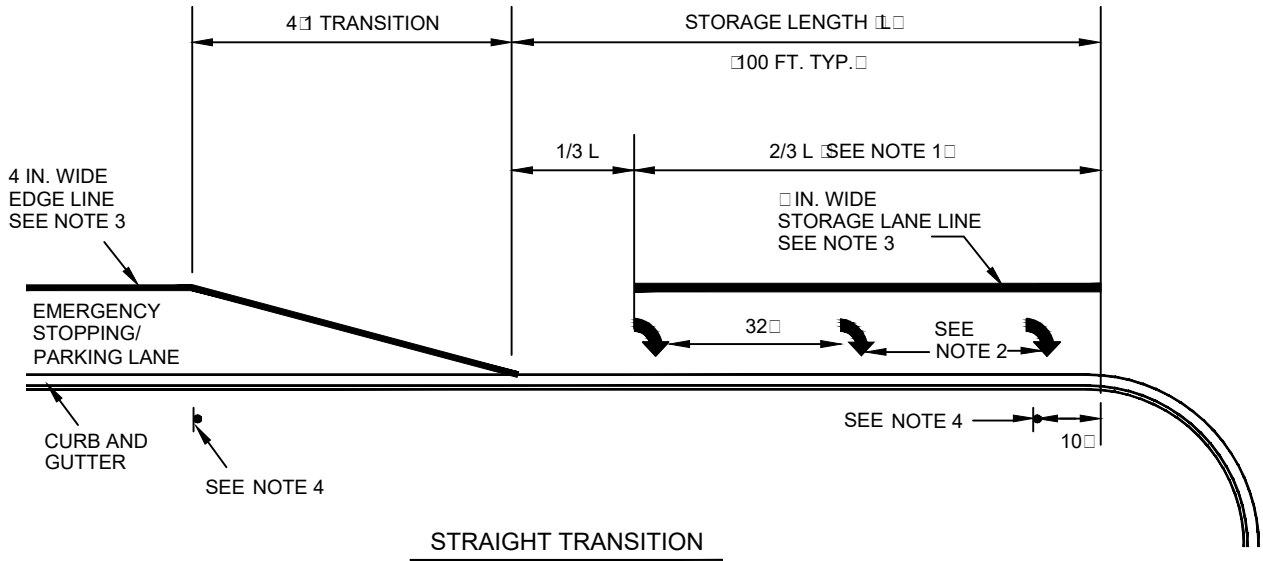
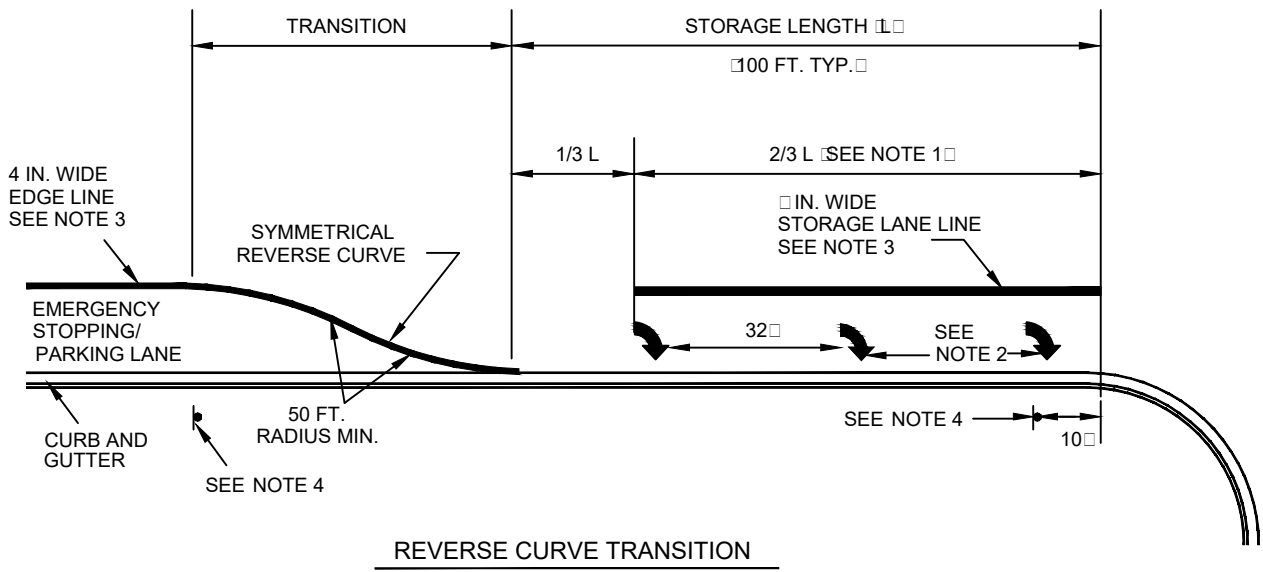
NOTES

1. THE MINIMUM LENGTH OF STORAGE LINE IS 250 FT. ON ARTERIALS AND 150 FT. ON ALL OTHERS.
 2. A MINIMUM OF 2 R3-7R OR R3-7L SIGNS SHALL BE INSTALLED IN ADVANCE OF THE INTERSECTION AT DISTANCES APPROVED BY THE ENGINEER. RECOMMENDED LOCATIONS ARE SHOWN ABOVE.
 3. ONE SET OF PAVEMENT MARKINGS CONTAINING ONE ARROW SYMBOL AND ONE "ONLY" SYMBOL SHALL BE PLACED AT THE BEGINNING OF THE DROP LANE.
 4. WHERE ADDITIONAL MOTORIST GUIDANCE IS DEEMED NECESSARY BY THE ENGINEER, ADDITIONAL ARROW AND "ONLY" SYMBOL PAVEMENT MARKINGS AND OVERHEAD MOUNTED R3-5 SIGNS MAY BE INSTALLED. SYMBOLS SHALL BE APPROVED TYPE II PAVEMENT MARKING FILM.
 5. APPROVED TYPE I PAVEMENT MARKING FILM OR RAISED PAVEMENT MARKERS MAY BE USED FOR ADDITIONAL GUIDANCE AT THE DISCRETION OF THE ENGINEER.
- STORAGE LANE LINE AND SKIP LINES SHALL BE APPROVED TYPE I PAVEMENT MARKING FILM OR IF APPROVED BY THE ENGINEER, RAISED PAVEMENT MARKERS MAY BE USED.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
STANDARD PAVEMENT MARKERS FORCED TURN LANE						
DATE	07-01-10	DWG. NO.	24			

SPECIFICATION REFERENCE	
□33	PAVEMENT MARKERS
□28	PAINTING TRAFFIC STRIPING, PAVEMENT MARKINGS

Effective 10/08/2020 to 12/09/2020

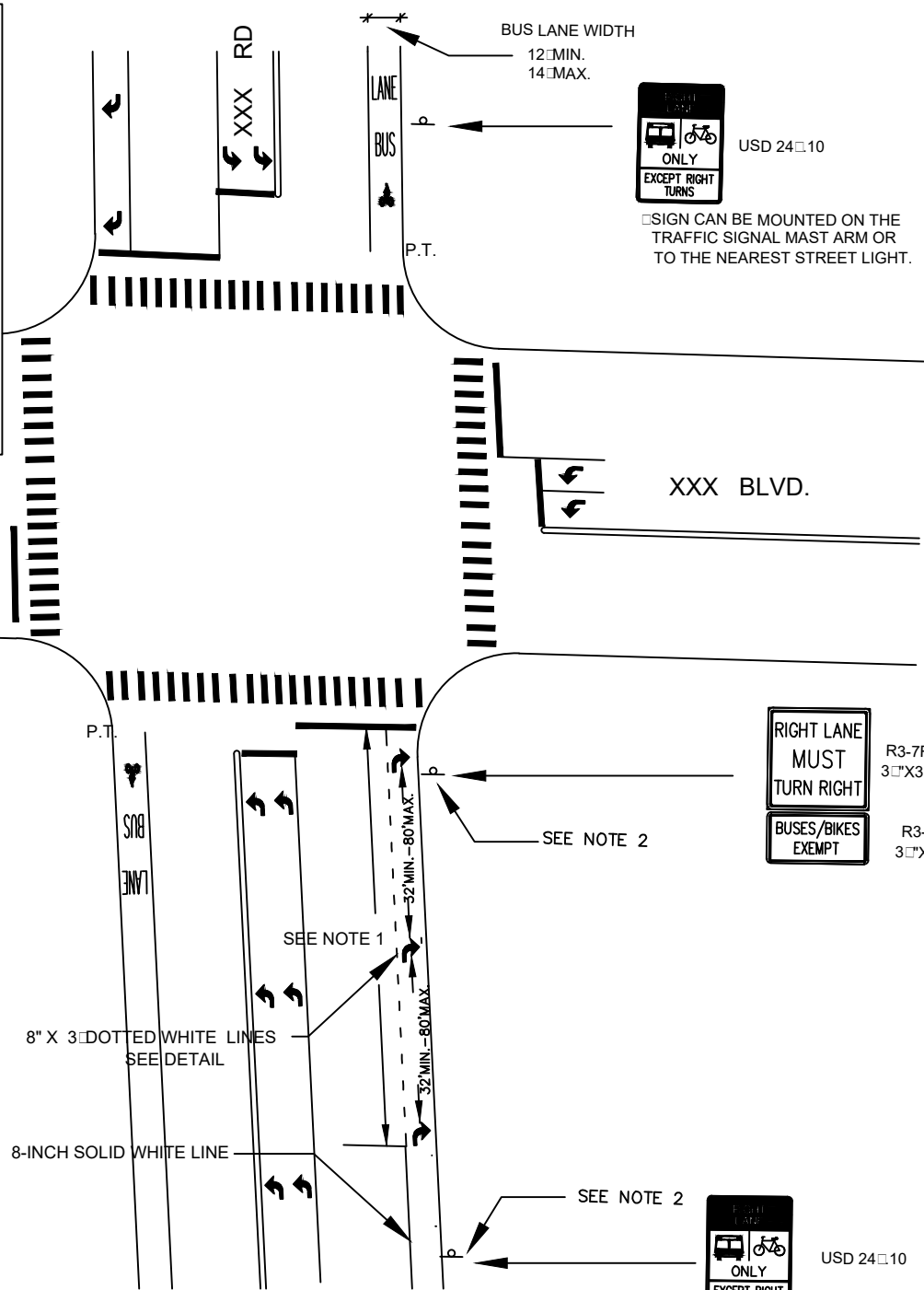
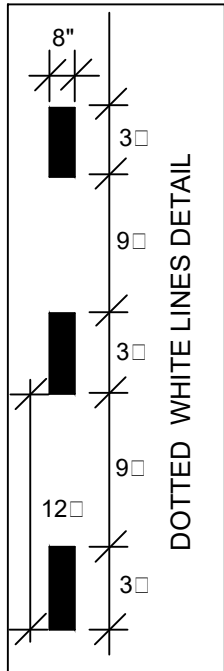
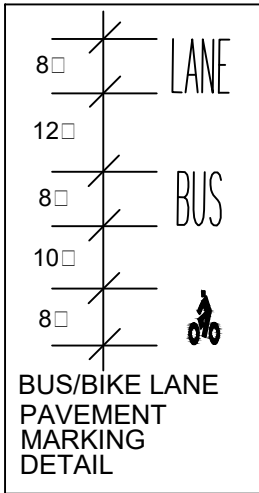


NOTES

1. LENGTH OF STORAGE LANE LINE IS TWO THIRDS OF THE TURN LANE STORAGE LENGTH.
2. WHERE ADDITIONAL MOTORIST GUIDANCE IS DEEMED NECESSARY BY THE ENGINEER, INSTALL ARROW SYMBOL PAVEMENT MARKINGS FOR THE LENGTH OF THE STORAGE LINE.
3. PAVEMENT MARKINGS SHALL BE TYPE I TAPE OR PAINT AS DIRECTED BY THE ENGINEER.
4. INSTALL "NO PARKING" SIGNS FOR ENTIRE LENGTH OF TURN LANE. WHERE ADDITIONAL MOTORIST GUIDANCE IS DEEMED NECESSARY BY THE ENGINEER, INSTALL R3-7R SIGNS.

Effective 10/08/2020 to 12/09/2020

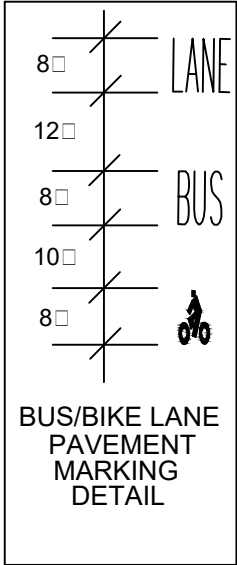
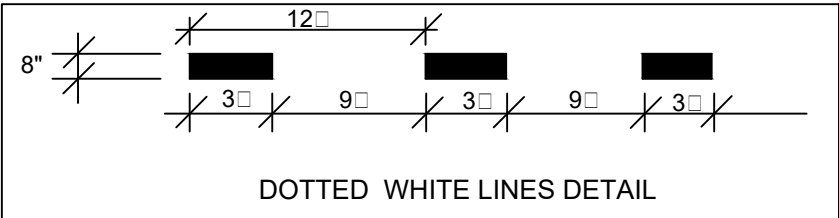
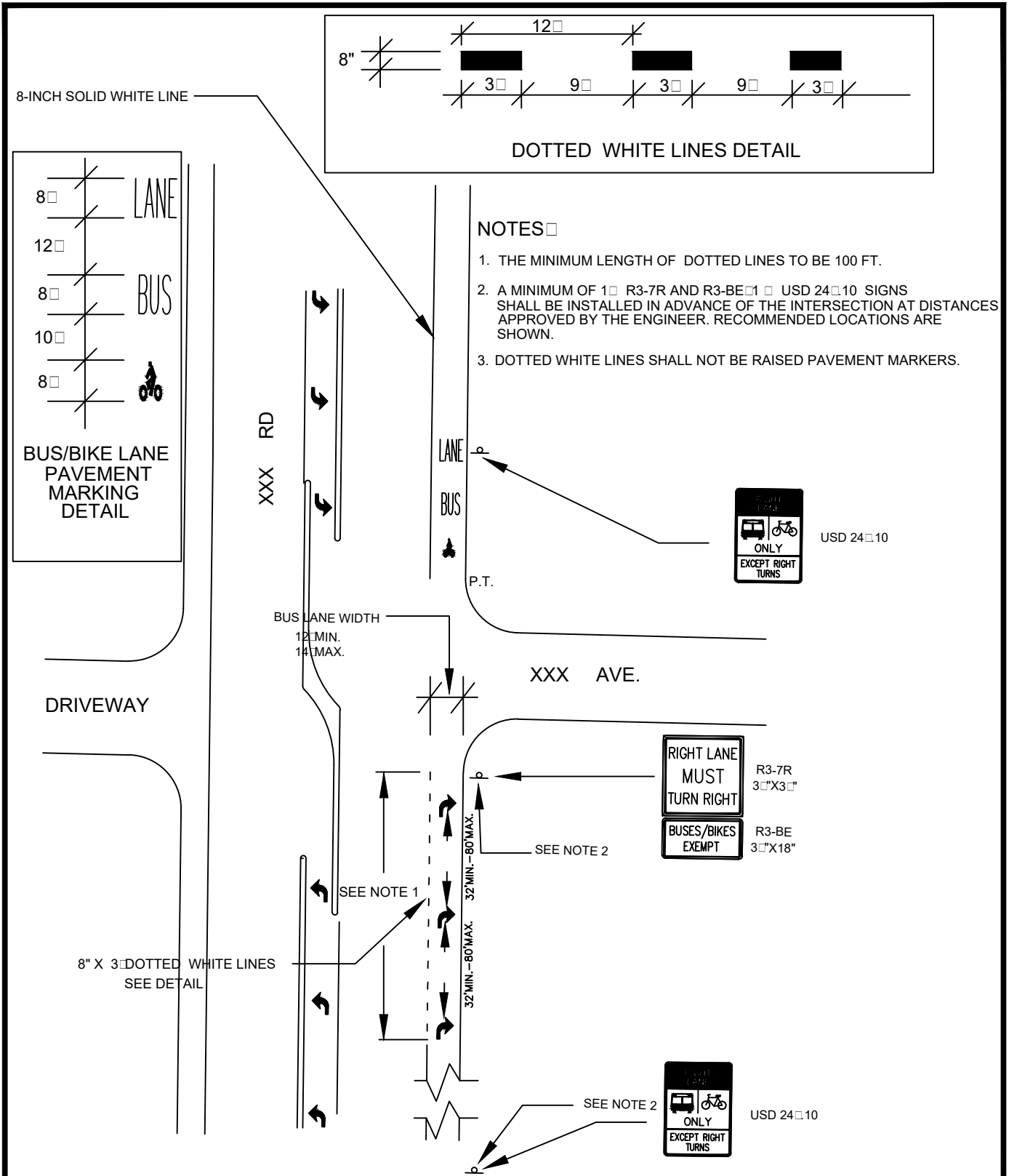
AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
33	PAVEMENT MARKERS	PAVEMENT MARKING AND SIGNAGE RIGHT TURN LANE AT MINOR INTERSECTIONS ARTERIALS WITH EMERGENCY/PARKING LANE					
DATE 09-11		DWG. NO.		247			



NOTES

1. THE MINIMUM LENGTH OF DOTTED LINES IS 150 FT. ON MAJOR/MAJOR INTERSECTION.
2. A MINIMUM OF 1 R3-7R AND R3-BE USD 24-10 SIGNS SHALL BE INSTALLED IN ADVANCE OF THE INTERSECTION AT DISTANCES APPROVED BY THE ENGINEER. RECOMMENDED LOCATIONS ARE SHOWN ABOVE.
3. DOTTED WHITE LINES SHALL NOT BE RAISED PAVEMENT MARKERS.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
EXCLUSIVE BUS/BIKE LANE MAJOR/MAJOR INTERSECTION SIGN INSTALLATION AND PAVEMENT MARKING DETAIL						
DATE 07-01-18	DWG. NO.	24-8				

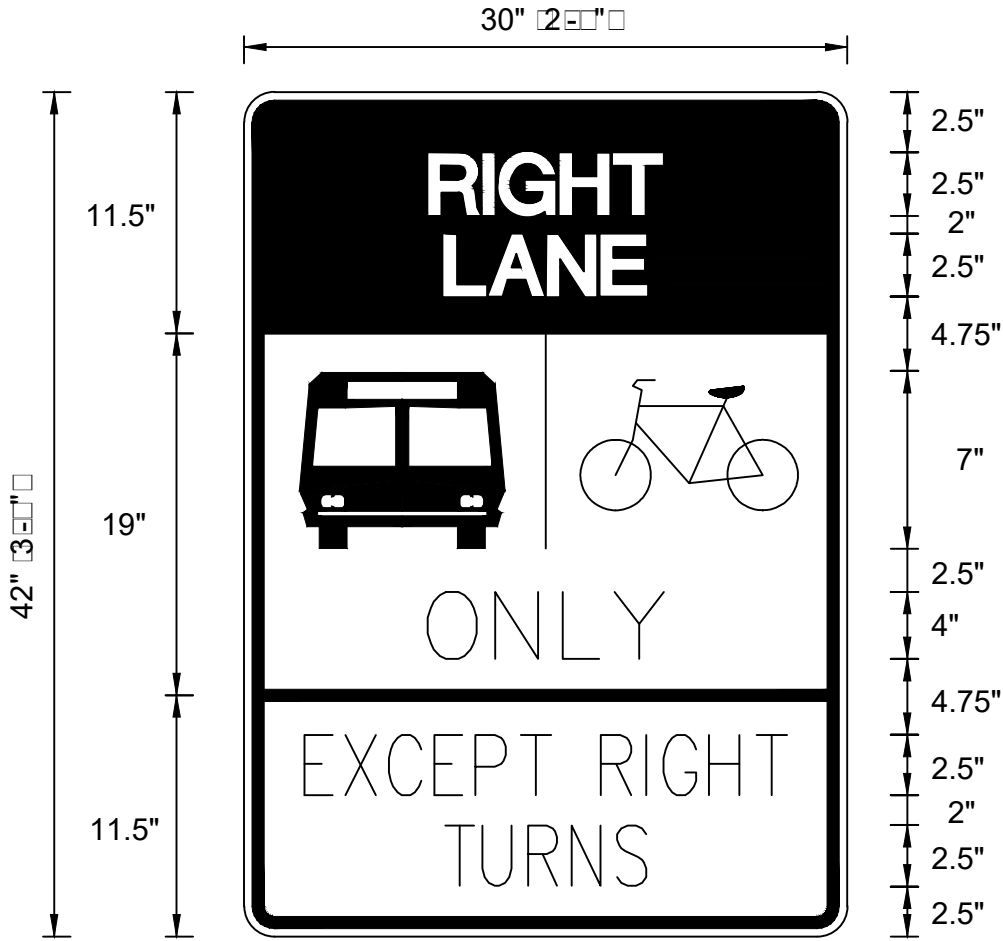


- NOTES**
1. THE MINIMUM LENGTH OF DOTTED LINES TO BE 100 FT.
 2. A MINIMUM OF 1 R3-7R AND R3-BE 1 USD 24 10 SIGNS SHALL BE INSTALLED IN ADVANCE OF THE INTERSECTION AT DISTANCES APPROVED BY THE ENGINEER. RECOMMENDED LOCATIONS ARE SHOWN.
 3. DOTTED WHITE LINES SHALL NOT BE RAISED PAVEMENT MARKERS.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
28	PAINTING TRAFFIC STRIPING
33	PAVEMENT MARKERS
71	SIGN MATERIALS

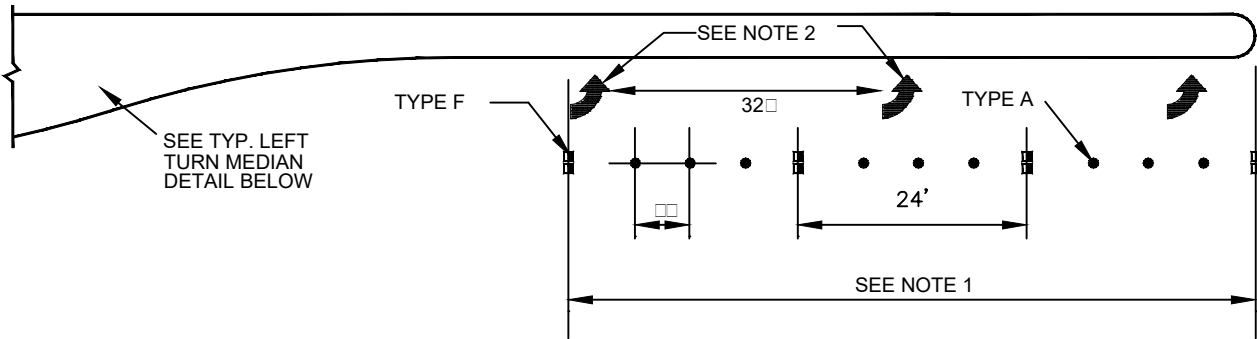
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
EXCLUSIVE BUS/BIKE LANE MAJOR/MINOR INTERSECTION SIGN INSTALLATION AND PAVEMENT MARKING DETAIL		
DATE 07-01-18	DWG. NO. 24-9	



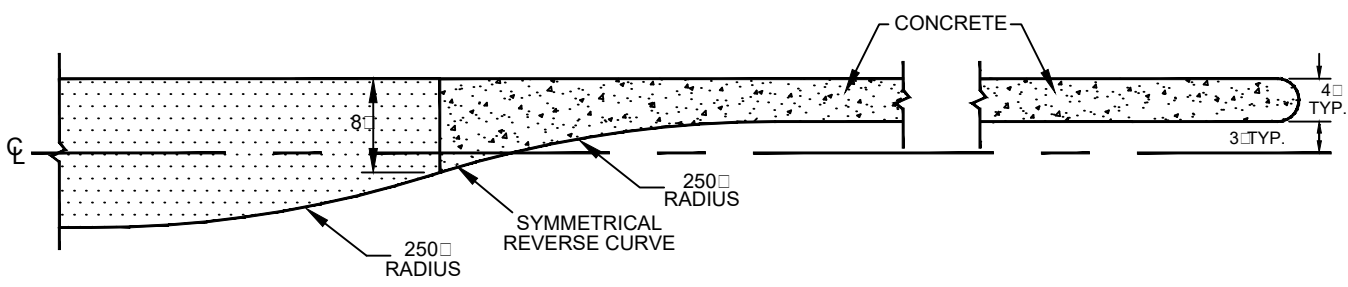
SIGN NUMBER	SP-1
WIDTH	30"
HEIGHT	42"
BORDER WIDTH	0.75"
BORDER RADII	1.875"
BACKGROUND COLOR	WHITE
LEGEND □ BORDER COLOR	BLACK

Effective 10/08/2020 to 12/09/2020

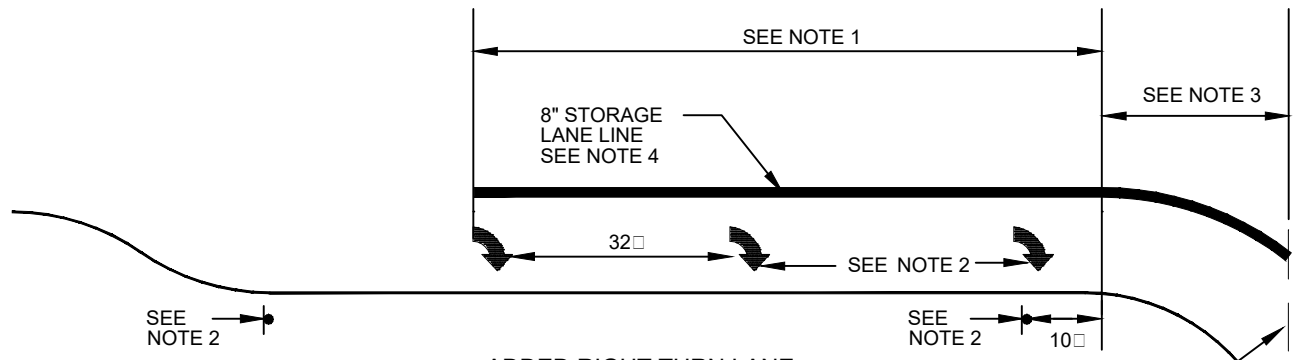
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
71 □	SIGN MATERIALS	EXCLUSIVE BUS/BIKE LANE SPECIAL SIGN DETAIL						
		DATE 01-01-18	DWG. NO.		24 □ 10			



ADDED LEFT TURN LANE



TYPICAL LEFT TURN MEDIAN DETAIL



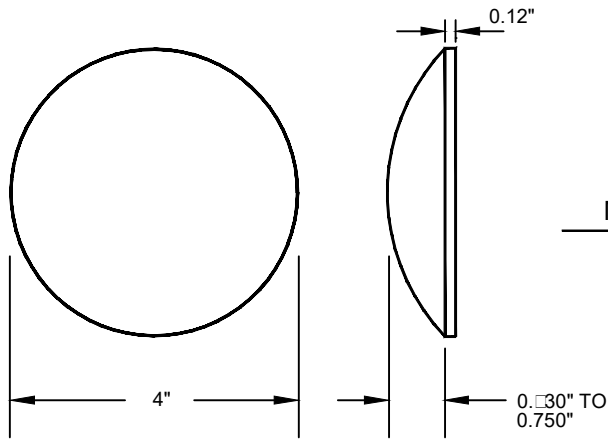
ADDED RIGHT TURN LANE

NOTES

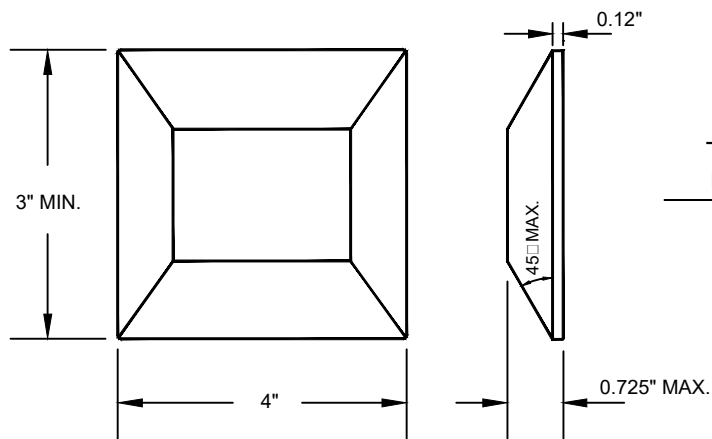
1. LENGTH OF STORAGE LINE IS TWO THIRDS OF THE ADDED TURN BAY. MIN. 100'
2. WHERE ADDITIONAL MOTORIST GUIDANCE IS DEEMED NECESSARY BY THE ENGINEER, INSTALL R3-7R SIGN AND ARROW SYMBOL PAVEMENT MARKINGS FOR THE LENGTH OF THE STORAGE LINE. SYMBOLS SHALL BE APPROVED TYPE II PAVEMENT MARKING FILM.
3. APPROVED TYPE II PAVEMENT MARKING FILM OR RAISED PAVEMENT MARKERS MAY BE USED FOR ADDITIONAL GUIDANCE AT THE DISCRETION OF THE ENGINEER.
4. STORAGE LANE LINE SHALL BE APPROVED TYPE I PAVEMENT MARKING FILM OR IF APPROVED BY THE ENGINEER, RAISED PAVEMENT MARKERS MAY BE USED.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
33	PAVEMENT MARKERS	STANDARD PAVEMENT MARKERS ADDED TURN LANE						
28	PAINTING TRAFFIC STRIPING, PAVEMENT MARKINGS...							
		DATE 09-11	DWG. NO. 24					



TYPE A □ B
MARKER DETAIL
NON-REFLECTIVE □



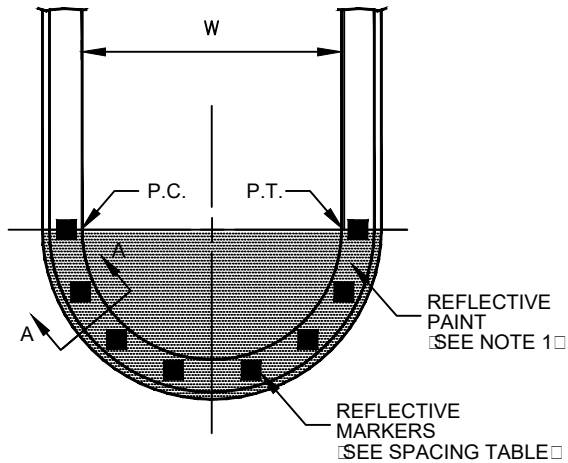
TYPE C, D, E □ F
MARKER DETAIL
REFLECTIVE □

LANE MARKER SCHEDULE

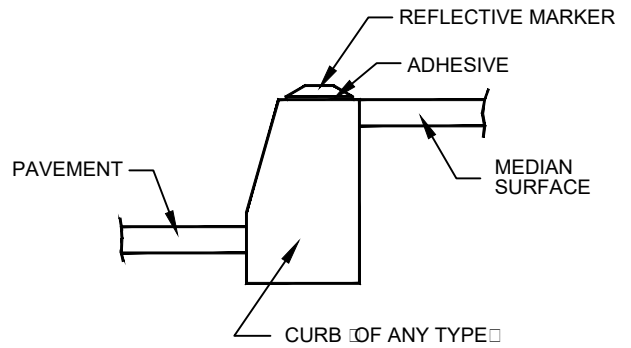
- TYPE A ● CIRCULAR WHITE CERAMIC MARKER
- TYPE B ○ CIRCULAR YELLOW CERAMIC MARKER
- TYPE C ■ TWO WAY YELLOW REFLECTOR
- TYPE D ▣ ONE WAY YELLOW REFLECTOR,
YELLOW TOWARD ONCOMING TRAFFIC
- TYPE E □ ONE WAY WHITE REFLECTOR,
WHITE TOWARD ONCOMING TRAFFIC
- TYPE F ▣ TWO WAY WHITE AND RED REFLECTOR,
WHITE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

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
33	PAVEMENT MARKERS	MARKER DETAILS AND LANE MARKER SCHEDULE						
		DATE 5-13-99	DWG. NO. 247					



PLAN



SECTION A-A

SPACING TABLE

"W"	NUMBER OR REFLECTORS PER MEDIAN NOSE
1.0 TO 2.0	3
2.0 TO 3.0	4
3.0 TO 4.0	5
4.0 GREATER	1 EACH FOR EVERY 1.0 OF CURB LENGTH

1 MARKER EACH SHALL BE PLACED ON THE P.C. AND THE P.T. OF THE MEDIAN NOSE. ALL OTHERS SPACED EQUALLY BETWEEN P.T. P.C.

NOTES

- ENTIRE MEDIAN SHALL BE PAINTED WITH REFLECTIVE PAINT, OF SAME COLOR AS REFLECTIVE MARKERS, FROM THE MEDIAN NOSE BACK 5 FEET OR TO THE P.C., WHICHEVER IS GREATER.
- REFLECTIVE PAVEMENT MARKERS USED ON MEDIAN SHALL CONFORM TO STANDARD DRAWING NO. 247.
- ORIENTATION OF THE REFLECTIVE MARKERS FACES SHALL BE MADE IN THE FIELD TO ENSURE THAT MARKERS ARE AIMED AT APPROACHING VEHICLES TO BEST ADVANTAGE, ESPECIALLY IN HORIZONTALLY CURVED ROAD SECTIONS.

Effective 10/08/2020 to 12/09/2020

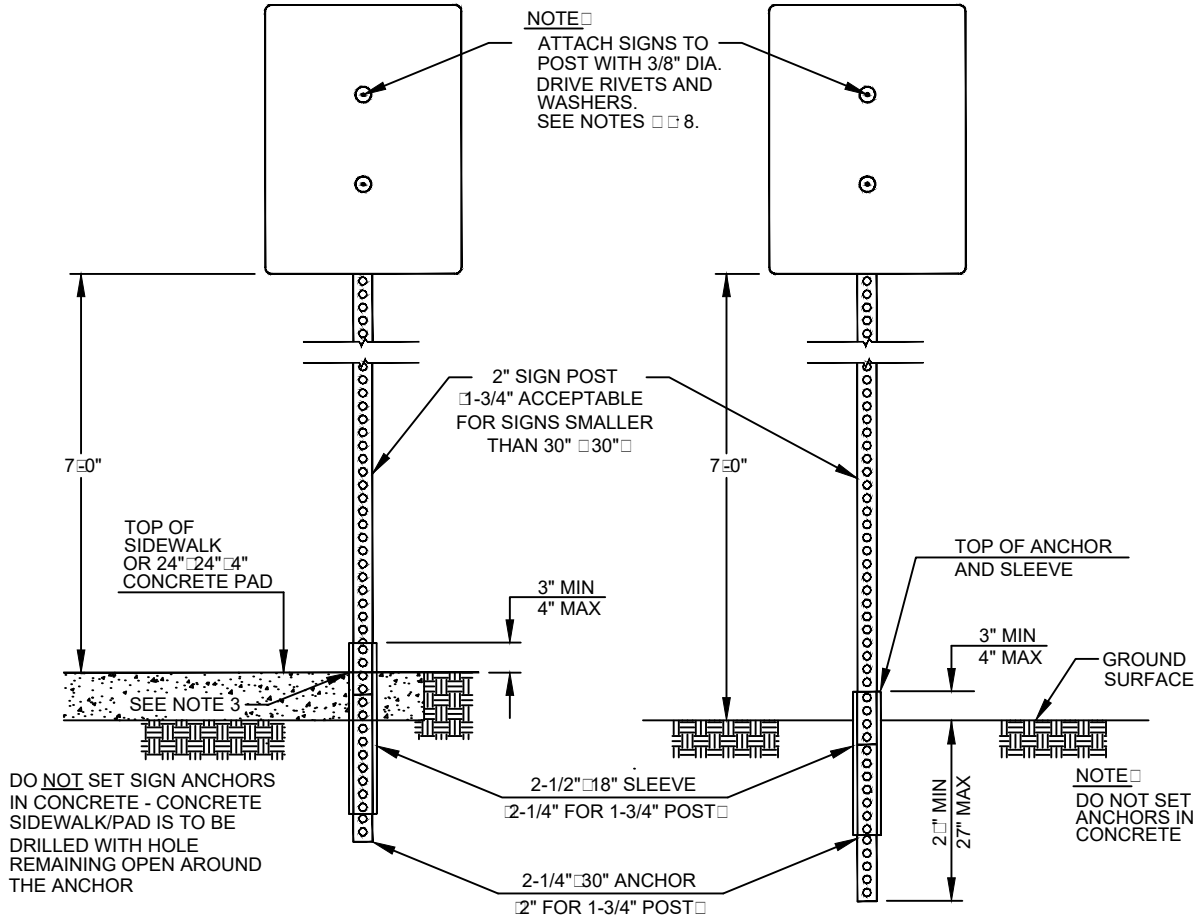
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
28	PAINTING TRAFFIC STRIPING	MEDIAN NOSE MARKINGS						
33	REFLECTIVE PAVEMENT MARKERS							
		DATE 11-93	DWG. NO. 248					

URBAN INSTALLATIONS

SEE NOTE 9

RURAL INSTALLATIONS

NO LANDSCAPING

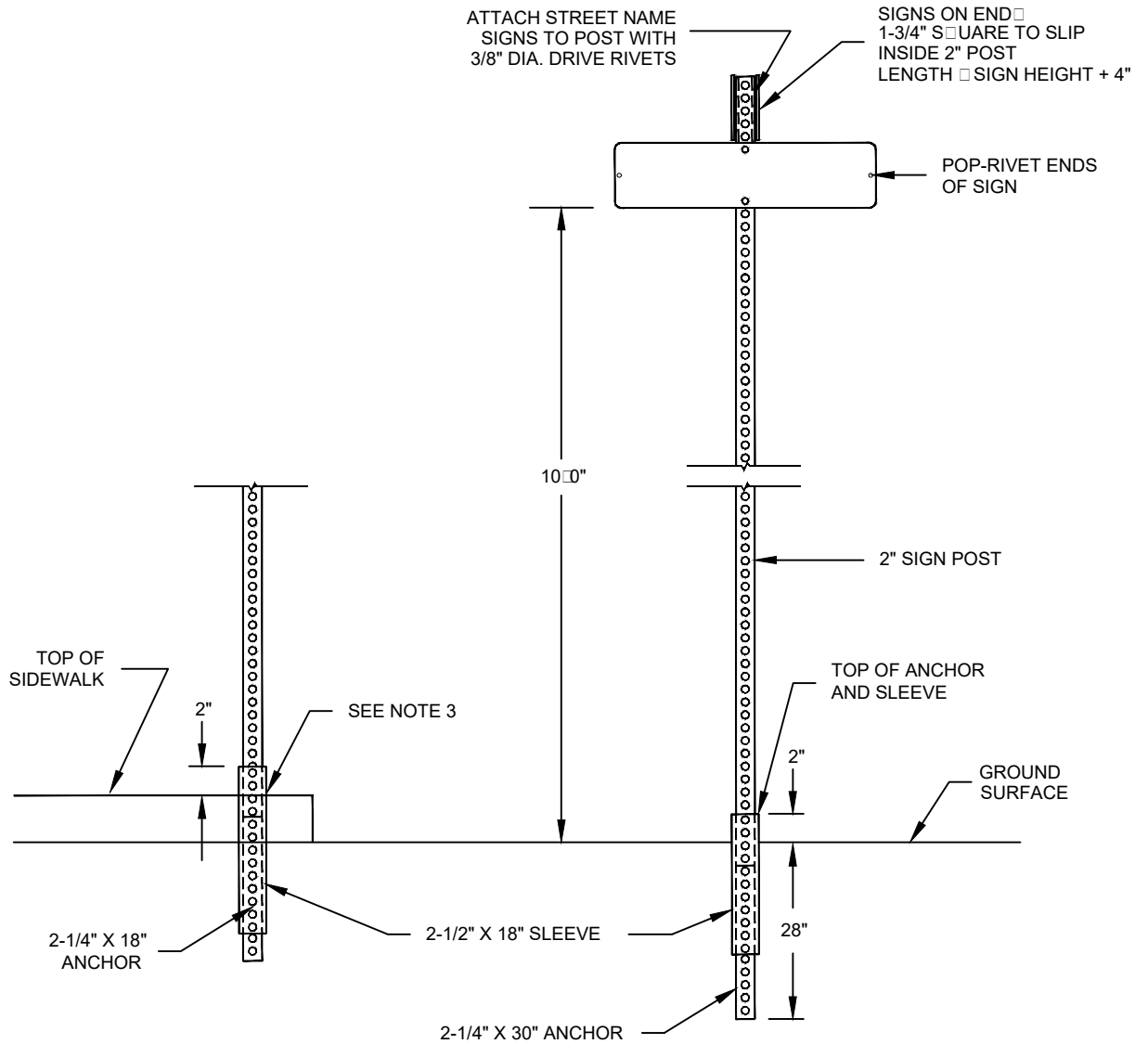


NOTES

1. ALL COMPONENTS SHALL BE MINIMUM 12 GA. SQUARE POST WITH 7/16" PUNCHED THRU HOLES 1" ON CENTER, ON ALL FOUR SIDES. ANCHORS SHALL BE TWO PIECE BREAKAWAY ANCHORS.
2. ATTACH ANCHOR AND SLEEVE TOGETHER PRIOR TO DRIVING INTO GROUND. LEAVE AT LEAST TWO HOLES, BUT NO MORE THAN THREE HOLES ABOVE GROUND OR ABOVE SIDEWALK.
3. FOR SIDEWALK INSTALLATION, DRILL SIDEWALK AND CONCRETE PAD INSTALLATION, DRILL A 3" TO 4" DIA. HOLE DEPENDENT UPON ANCHOR SIZE THE CENTER TO BE 1/2" FROM THE BACK OF SIDEWALK.
4. ATTACH POST TO ANCHORING SYSTEM BY USING AT LEAST TWO 3/8" DIA. DRIVE RIVETS.
5. PROVIDE 4" MINIMUM LAP BETWEEN BOTTOM OF POST AND THE BOTTOM OF THE ANCHOR/SLEEVE ASSEMBLY.
6. SIGNS LARGER THAN 24" x 30" REQUIRE 3/8" x 1-1/2" FENDER WASHERS UNDER DRIVE RIVETS.
7. "U-CHANNEL" POSTS ARE NOT ACCEPTABLE.
8. BOLTS IN LIEU OF DRIVE RIVETS ARE NOT ACCEPTABLE.
9. ALL URBAN SIGN INSTALLATIONS ARE TO BE INSTALLED IN A CONCRETE SIDEWALK, OR IN A CONCRETE PAD 24" x 24" x 4" WHEN NO SIDEWALK EXISTS.
10. INSTALLATION OF SIGNS SHALL MEET LATEST ADA REQUIREMENTS.
11. SIGNS SHALL HAVE A STICKER AT THE BACK WITH THE NAME OF THE CONTRACTOR AND THE DATE OF INSTALLATION.

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
31	STREET NAME SIGNS	SIGN INSTALLATION DETAIL					
DATE	11-10-04	DWG. NO.	249.1				

Effective 10/08/2020 to 12/09/2020



NOTES

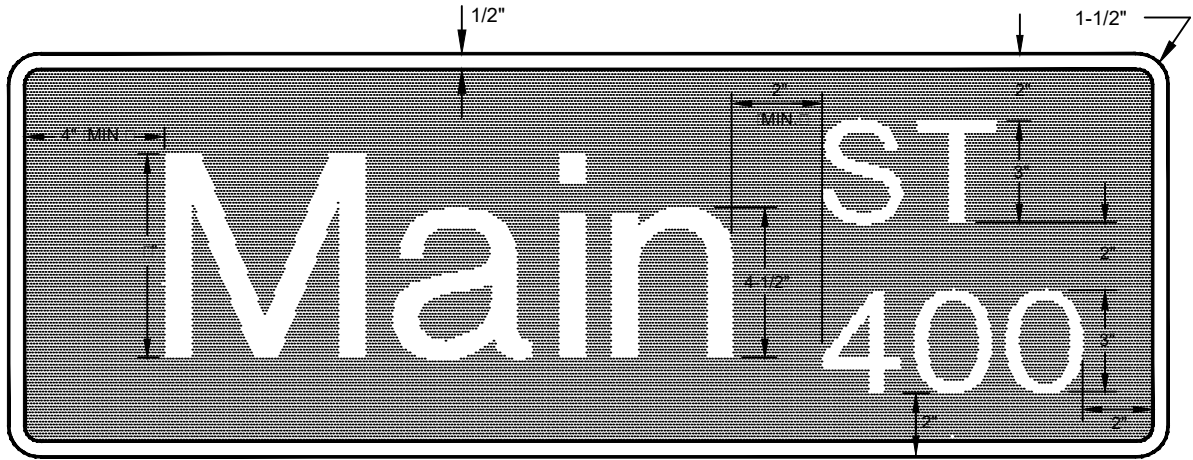
1. ALL COMPONENTS SHALL BE SQUARE POST, PERFORATED ON ALL FOUR SIDES.
2. ATTACH ANCHOR AND SLEEVE TOGETHER PRIOR TO DRIVING INTO GROUND. LEAVE AT LEAST ONE HOLE, BUT NO MORE THAN TWO, ABOVE GROUND OR ABOVE SIDEWALK.
3. FOR SIDEWALK INSTALLATION, DRILL SIDEWALK WITH A 3" HOLE, THE CENTER TO BE 1/2" FROM BACK OF SIDEWALK.
4. ATTACH POST TO ANCHORING SYSTEM BY USING AT LEAST TWO 3/8" DIA. DRIVE RIVETS.
5. PROVIDE 4" MINIMUM LAP BETWEEN POST AND THE ANCHOR/SLEEVE ASSEMBLY.

M ALL STREET NAME SIGNS SHALL BE 9 INCH STANDARD IN THE CITY OF MESQUITE ONLY.

AGENCY APPROVED	B	C	H	L	M	N
-----------------	---	---	---	---	----------	---

SPECIFICATION REFERENCE	
31	STREET NAME SIGNS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
STANDARD STREET NAME SIGN POST INSTALLATION	
DATE 5-20-04	DWG. NO. 249



12" MAJOR STREETS



9" MINOR STREETS

NOTES

1. SIGN SHALL BE WHITE LETTERS AND NUMBERS ON GREEN BACKGROUND. THE CITY OF NORTH LAS VEGAS BACKGROUND IS BLUE. CUT-OUT LETTERS AND NUMBERS ARE NOT ACCEPTABLE EXCEPT FOR THE BLOCK NUMBER.
2. REFLECTIVE SHEETING MATERIAL SHALL BE TYPE XI.
3. PRIMARY COPY FOR 9" AND 12" SIGNS SHALL BE SERIES C UPPERCASE WITH 4 1/2" SERIES C LOWERCASE. HOWEVER, WHEN DESCENDERS ARE REQUIRED ON 9" SIGNS, PRIMARY COPY SHALL BE 5 1/2". ORDINAL, SUFFIX AND BLOCK NUMBER SHALL BE 3" SERIES C UPPERCASE. ORDINAL MAY BE OMITTED FROM 12" SIGNS, EXCEPT IN CLARK COUNTY. SPACING BETWEEN LETTERS SHALL BE AS ON SHEET 2 OF THIS DRAWING.
4. THE SIGN SHALL HAVE A MINIMUM LENGTH OF 30". WHERE EXTRA LENGTH IS REQUIRED, IT SHALL BE PROVIDED IN 4" INCREMENTS. GROUND MOUNTED SIGNS SHALL HAVE A MAXIMUM LENGTH OF 42".
5. BOTH SIGNS PLACED ON MAJOR STREETS WITH RIGHTS-OF-WAY 80' OR GREATER SHALL HAVE A HEIGHT OF 12". SIGNS PLACED ON MINOR STREETS WITH RIGHTS-OF-WAY OF LESS THAN 80' SHALL HAVE A HEIGHT OF 9".
6. 12" SIGNS SHALL HAVE A 1/2" WHITE BORDER AT THE EDGE.
7. SIGN BLANKS SHALL HAVE ROUNDED CORNERS.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					B	C	H	L	M	N
31	STREET NAME SIGNS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA										
71	SIGN MATERIALS											
		STREET NAME SIGNS FACE COPY										
		DATE 07/01/12		DWG. NO.		250		SHEET 1 OF 2				

SPACING OF STREET NAME SIGN LEGENDS

SPACING FOR STREET NAME SIGN LEGENDS SHALL BE OBTAINED BY MODIFICATION TO THE REQUIREMENTS OF THE FHWA STANDARD SPACING CHART FOR 1/2" UPPERCASE LETTERS. THE FOLLOWING STEPS SHALL BE USED TO DETERMINE REQUIRED SPACING:

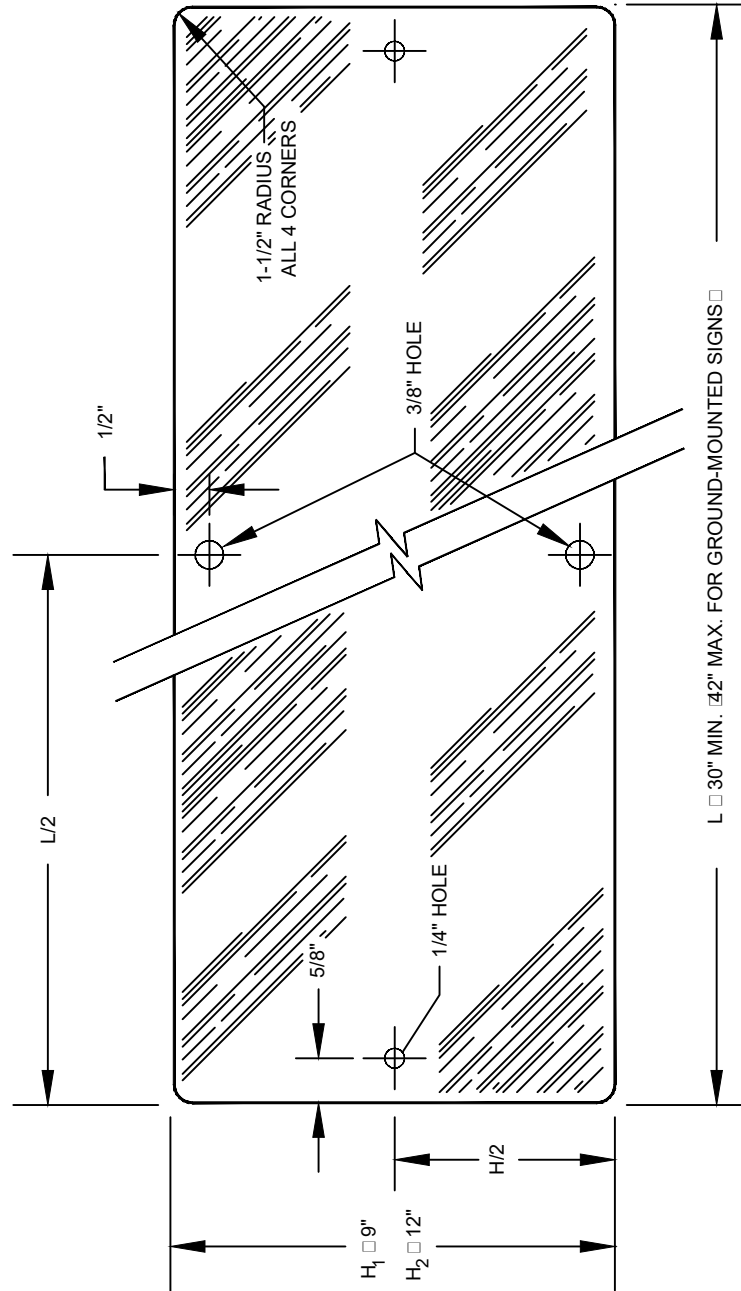
1. SIGN LAYOUT COMPUTER SOFTWARE SHALL BE EVALUATED TO DETERMINE THE "CORRECTION FACTOR" NECESSARY FOR LAYOUT SOFTWARE LETTER SPACING TO BE APPROXIMATELY EQUAL TO THE FHWA STANDARD SPACING FOR UPPERCASE LETTERS.
2. CORRECTION FACTOR SHALL BE USED TO ADJUST THE SPACING FOR THE LOWERCASE LETTERS.
3. SPACING FOR STREET NAME SIGN LEGENDS SHALL BE EQUAL TO 110% OF THE "CORRECTED" LAYOUT SOFTWARE LETTER SPACING.

THE SAME STEPS ARE TO BE FOLLOWED WHEN FONT SIZE OF LEGEND IS REDUCED IN ORDER NOT TO EXCEED THE MAXIMUM LENGTH LIMITATIONS.

IF LEGEND SPACED ACCORDING TO RECOMMENDED PROCEDURE ABOVE EXCEEDS THE MAXIMUM ALLOWABLE SIGN LENGTH (42" FOR GROUND-MOUNTED), THE FOLLOWING ACTIONS, LISTED IN PRIORITY ORDER, SHALL BE TAKEN TO REDUCE LENGTH OF THE SIGN:

- A. REDUCE THE FONT TO 5 1/2" SERIES "C".
- B. REDUCE THE SPACING TO 100% OF THE "FEDERAL STANDARD".
- C. REDUCE THE FONT TO 5 1/2" SERIES "B".
- D. CONSIDER ABBREVIATING ANY LEGEND WORDS WHICH ARE EXTREMELY COMMON (I.E., "MTN" FOR "MOUNTAIN") SUCH ABBREVIATIONS MUST BE APPROVED BY THE TRAFFIC ENGINEER AND THE FIRE DEPARTMENT.
- E. REDUCE THE LEADING AND TRAILING BLANK SPACE BY 50%.
- F. CONSTRUCT THE SIGN ACCORDING TO THE STANDARD SPACING WHICH WILL BE GREATER THAN 42" IN LENGTH, AND MOUNT ON A STREETLIGHT POLE OR OTHER ELEVATED MOUNT AS APPROVED BY THE TRAFFIC ENGINEER WITH APPROPRIATE SIGN BRACING AND MOUNTING HARDWARE.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
31	STREET NAME SIGNS	STREET NAME SIGNS LETTER SPACING						
71	SIGN MATERIALS							
		DATE	12-97	DWG. NO.	250	SHEET 2 OF 2		



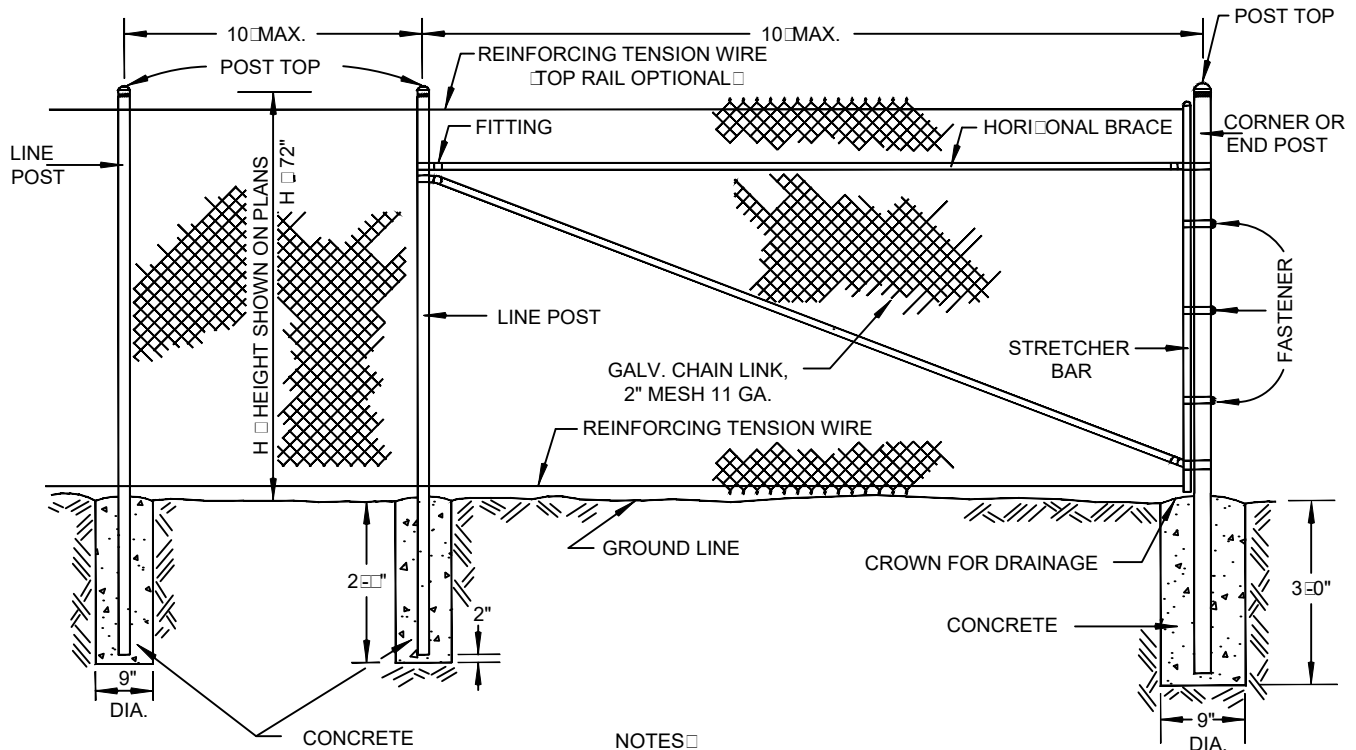
ALUMINUM BLANK

5052-H38 OR 5052-T3 HEAT-TREATED, HIGH TENSILE, DEGREASED AND ALODINE 1200 FINISH. THICKNESS TO BE 0.080" FOR SIGNS LESS THAN 3" AND 0.100" FOR SIGNS 3" AND LONGER.

NOTE

1. FOR SIGN FACE SPECIFICATIONS SEE STANDARD DRAWING NO. 250.

SPECIFICATION REFERENCE		AGENCY APPROVED					
31	STREET NAME SIGNS	B	C	H	L	M	N
71	SIGN MATERIALS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA STREET NAME SIGN BLANKS					
DATE	8-0	DWG. NO.	251				



NOTES

- FENCING SHALL BE CHAIN LINK AND SHALL CONSIST OF GALVANIZED CHAIN LINK FABRIC ON STEEL POSTS.
 - A ALL POSTS TOPS SHALL BE FITTED WITH SUITABLE FINIALS.
 - B BRACES SHALL BE SPACED APPROXIMATELY 12" BELOW TOP OF TERMINAL POSTS AND SHALL EXTEND FROM END, GATE, OR CORNER POSTS TO FIRST ADJACENT LINE POST.
 - C ALL FITTINGS SHALL BE HOT-DIPPED GALVANIZED MALLEABLE, CAST IRON, OR PRESSED STEEL.
 - D TOP AND BOTTOM SELVAGES OF THE FENCE SHALL HAVE A TWISTED AND BARBED FINISH.
- BARBED WIRE, EXTENSION ARMS, AND TOP HORIZONTAL RAILS SHALL BE INSTALLED ONLY WHEN SHOWN ON THE PLANS AND/OR CALLED FOR IN THE SPECIAL PROVISIONS.

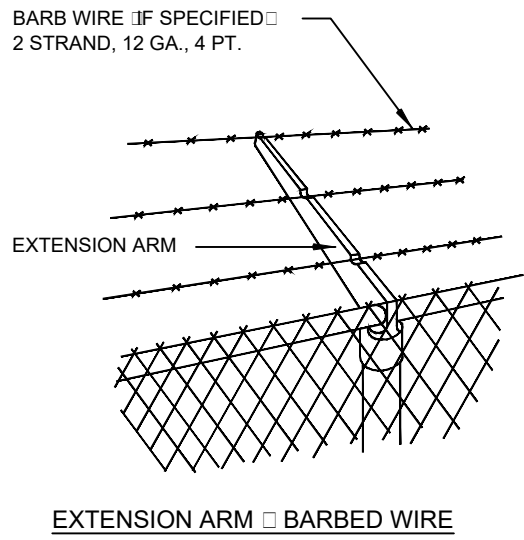


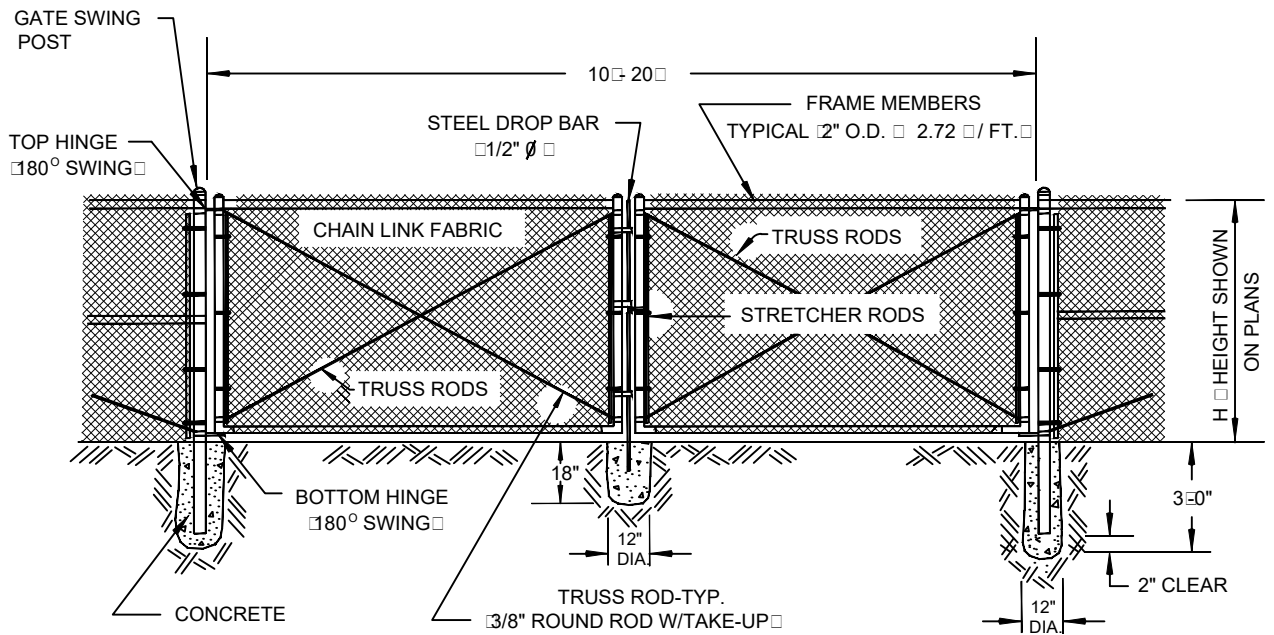
TABLE I
FOR CHAIN LINK FENCE 72" AND LESS

LOCATION	MIN. SIZE	MIN. WEIGHT
END, CORNER PULL	2.351 O.D.	3.10
LINE	2.00 O.D.	2.72
BRACES	1.30 O.D.	2.27
TOP RAIL	1.30 O.D.	2.27

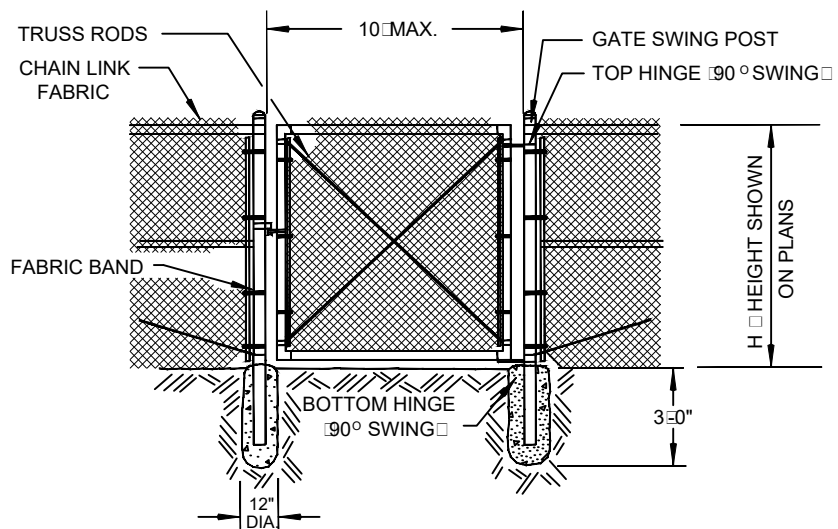
AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
CHAIN LINK FENCE 72 INCH HIGH OR LESS						
DATE 12-14-00	DWG. NO.	252				

SPECIFICATION REFERENCE	
501	CONCRETE
1	FENCING

Effective 10/08/2020 to 12/09/2020



DOUBLE SWING GATE

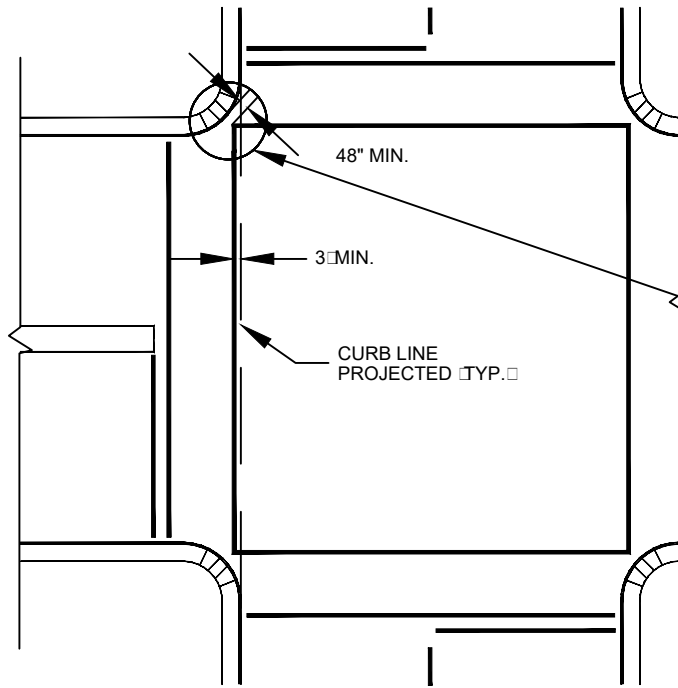


SINGLE GATE

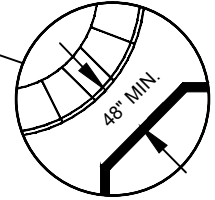
GATE SWING POST DIA.	
GATE SIZE	PIPE DIA.
□ AND LESS	3" O.D. - 5.79 LBS./FT.
□ 10 □	4" O.D. - 9.10 LBS./FT.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
501	CONCRETE	B	C	H	L	M	N
□ 1 □	FENCING	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		CHAIN LINK GATES					
		DATE 12-14-00	DWG. NO.	253			



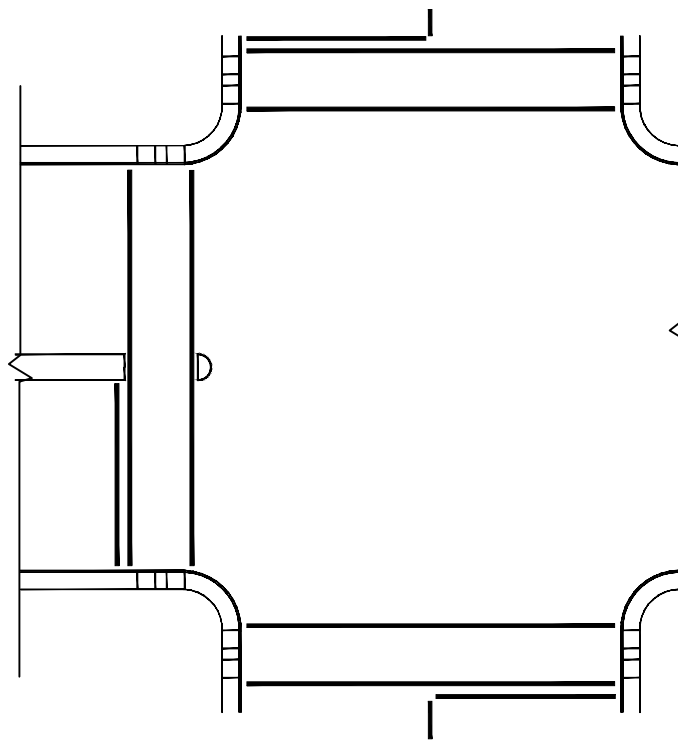
TYPICAL MARKING CURB RAMP IN MIDDLE OF CURB RETURN



OPTIONAL DETAIL

NOTE

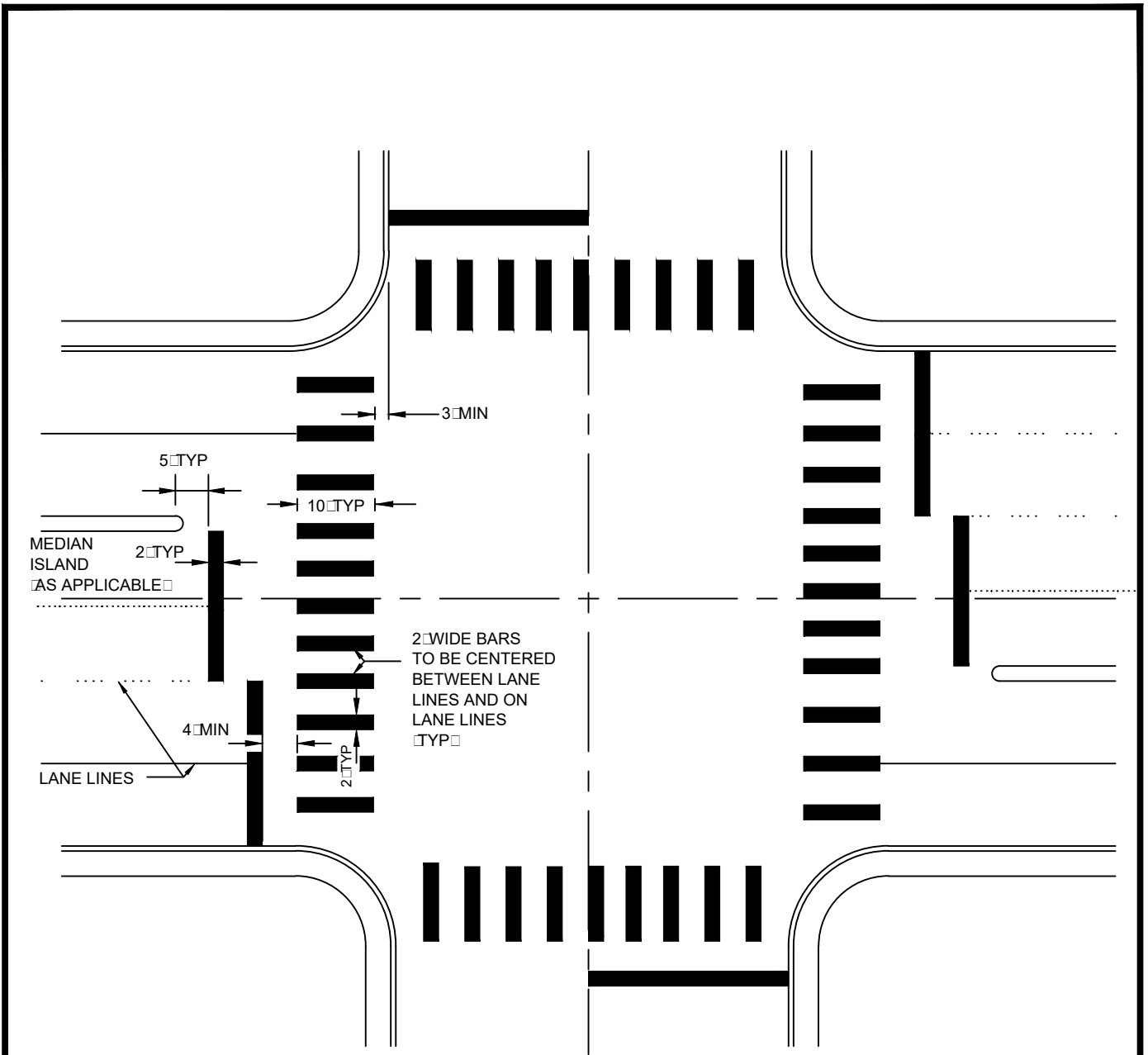
USE MARKING PER OPTIONAL DETAIL IF NECESSARY TO OBTAIN 3" MINIMUM CLEARANCE BETWEEN CROSSWALK AND CURB LINE PROJECTED.



TYPICAL MARKING CURB RAMP ADJOINING CURB RETURN

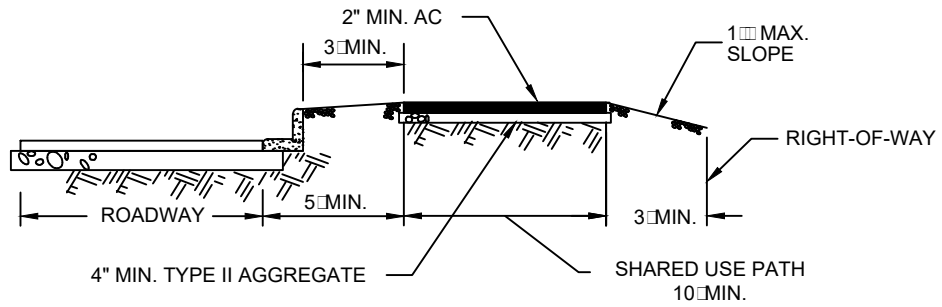
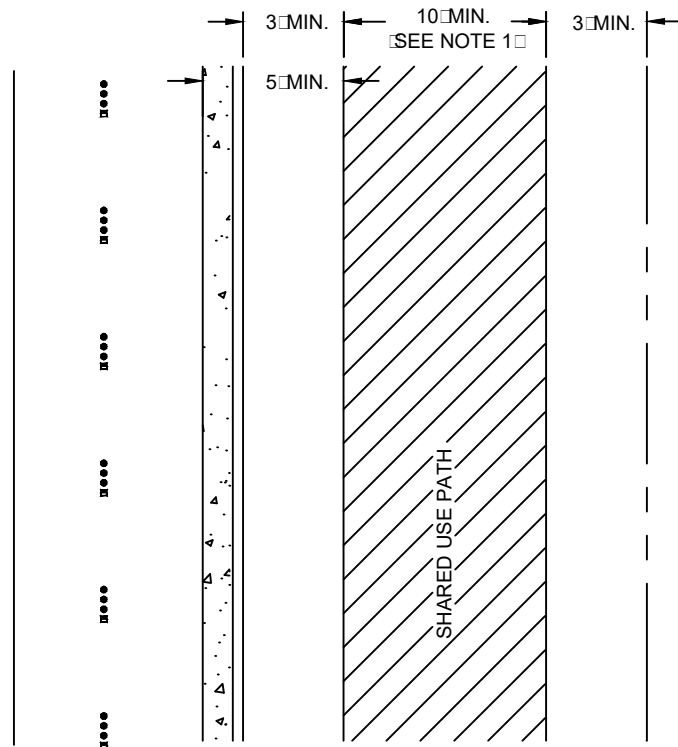
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B		H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SUPPLEMENTAL DRAWING						
		CROSSWALK MARKINGS - TYPE II						
		DATE 8-12-99	DWG. NO.	254.1.S1				



TYPICAL CROSSWALK
STRIPING DETAIL

SPECIFICATION REFERENCE		AGENCY APPROVED					
		B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		CROSSWALK MARKINGS - TYPE I					
		DATE 11-12-09	DWG. NO.	254			

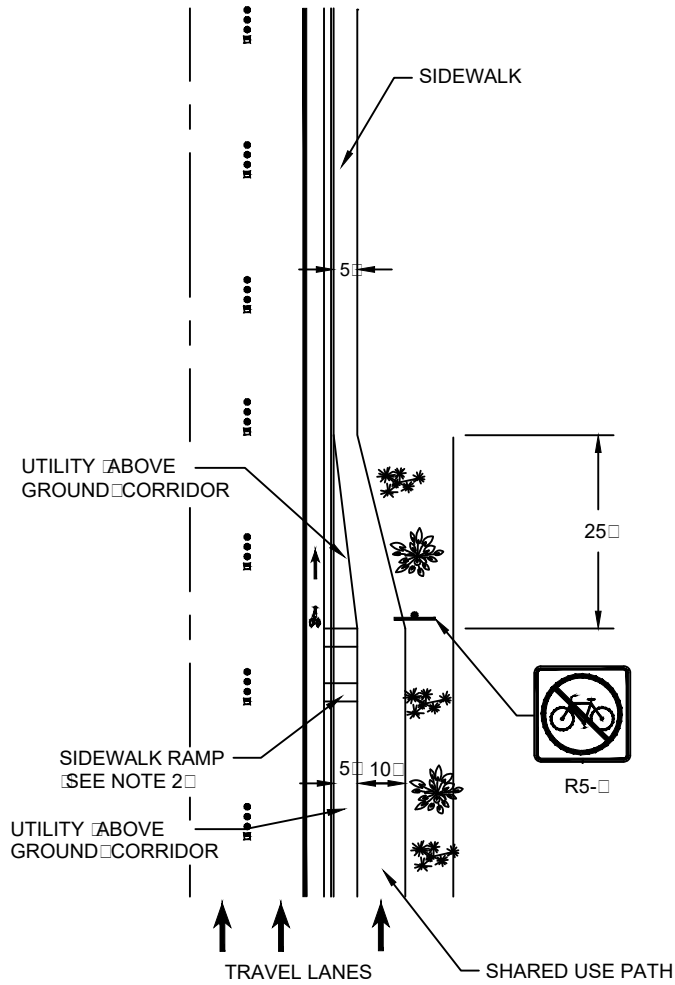


NOTES

1. 12 FOOT WIDTH IS RECOMMENDED. 10 FOOT WIDTH IS ALLOWABLE ALONG A PATH PARALLEL TO A ROADWAY OR WHERE SPACE IS LIMITED. PAVEMENT AND BASE DEPTH WILL VARY BASED ON SOIL CONDITIONS. PORTLAND CEMENT CONCRETE (PCC) MAY BE USED INSTEAD OF ASPHALT AND PCC MAY BE REQUIRED BY THE LOCAL JURISDICTION.
 2. SEE DRAWING NUMBER 255 FOR SHARED USE PATH NOT ALONG A ROADWAY.
 3. SEE THE GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, ASSHTO 1999, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR ADDITIONAL GUIDELINES AND STANDARDS.
 4. SEE LOCAL JURISDICTIONS FOR LANDSCAPING REQUIREMENTS.
 5. 3 FOOT LATERAL CLEARANCE RECOMMENDED BETWEEN EDGE OF PATH AND A FIXED OBJECT, 2 FOOT MINIMUM.
- IF 1 FEET IS NOT AVAILABLE FROM THE BACK OF CURB TO THE RIGHT-OF-WAY LINE, A BICYCLE LANE/ROUTE AND THE SIDEWALK WILL SUBSTITUTE FOR THE PATH. PLACE A PATH ENDS SIGN W9 25 FEET IN ADVANCE OF THE PATH ENDING.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
□28	PAINTING TRAFFIC STRIPING	SHARED USE PATH ALONG A ROADWAY						
□33	PAVEMENT MARKERS							
DATE 7-10-03		DWG. NO.		255.1				



NOTES

1. USE ENGINEERING JUDGEMENT TO APPLY THIS DETAIL TO SIMILAR SCENARIOS.
2. SEE DRAWING NO. 235, CASE III, FOR SIDEWALK RAMP DETAILS.

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
28	PAINTING TRAFFIC STRIPING	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
33	PAVEMENT MARKERS												
		TYPICAL TRANSITION SECTION FROM SHARED USE PATH ALONG ROADWAY TO SIDEWALK											
		DATE	7-10-03	DWG. NO.	255.2								

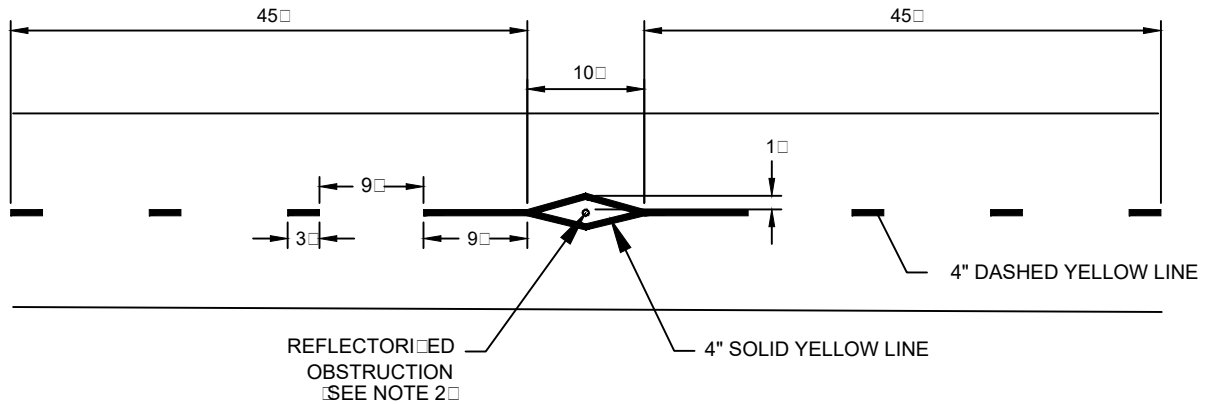
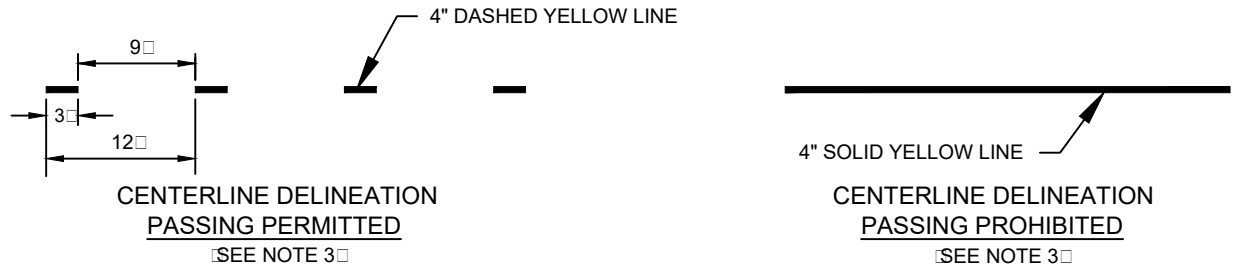
SIGN SIZES FOR SHARED-USE PATHS

<u>MUTCD CODE</u>	<u>SIGN</u>	<u>MINIMUM SIGN SIZE IN</u>
R1-1	STOP	18 X 18
R1-2	YIELD	24 X 24 X 24
R3-1, 1A, 17, 17A	BICYCLE LANE	24 X 30
R4-1, 2, 3, 7	MOVEMENT RESTRICTION	12 X 18
R4-4	BEGIN RIGHT TURN LANE YIELD TO BIKES	30 X 30
R5-3	NO MOTOR VEHICLES	24 X 24
R5-□	BICYCLE PROHIBITION	24 X 24
R7-9, 9A	NO PARKING BIKE LANE	12 X 18
R9-3A	PEDESTRIANS PROHIBITED	18 X 18
R9-5, □	BICYCLE REGULATORY	12 X 18
R9-7	SHARED-USE PATH RESTRICTION	12 X 18
R15-1	RAILROAD CROSSBUCK	24 X 4.5
W1-1, 2, 3, 4, 5	TURN AND CURVE WARNING	18 X 18
W1-□, 7	ARROW WARNING	24 X 12
W2-1, 2, 3, 4, 5	INTERSECTION WARNING	18 X 18
W3-1A, 2A, 3	STOP, YIELD, SIGNAL AHEAD	18 X 18
W5-2A	ROAD NARROWS	18 X 18
W5-4	BIKEWAY NARROWS	18 X 18
W7-5	HILL SIGN	18 X 18
W8-1, 2	BUMP OR DIP	18 X 18
W8-10	BICYCLE SURFACE CONDITION	18 X 18
W10-1	ADVANCE GRADE CROSSING	18 DIA.
W11-1	BICYCLE CROSSING	18 X 18
W12-2	LOW CLEARANCE	18 X 18
W1□-1	SHARE THE ROAD PL□UE	24 X 30
D1-1	SUPPLEMENTAL BIKE ROUTE PL□UE	24 X □
D4-3	BICYCLE PARKING	12 X 18
D11-1	BIKE ROUTE	24 X 18
M1-8	BIKE ROUTE MARKER	12 X 18
M1-9	BIKE ROUTE MARKER	18 X 24
M4-11, 12, 13	SUPPLEMENTAL BICYCLE ROUTE GUIDE	12 X 4
M7-1, 2, 3, 4, 5, □, 7	ROUTE MARKER SUPPLEMENTAL PL□UES	12 X 9

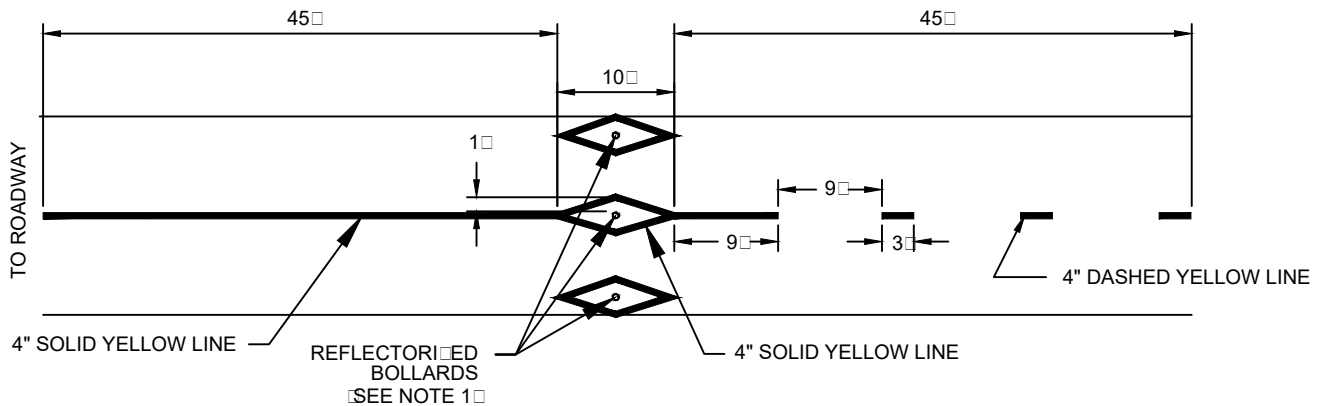
NOTES

1. SIGN TABLE INSERTED FROM MUTCD FOR REFERENCE. SEE CURRENT MUTCD FOR UPDATED INFORMATION.
2. SIGNS R3-1A, R3-17A, R4-4, W5-2A, AND W1□-1 NOT USED FOR SHARED USE PATHS.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
□28	PAINTING TRAFFIC STRIPING	SIGN SIZES FOR SHARED USE PATH						
□33	PAVEMENT MARKERS							
		DATE 7-10-03	DWG. NO.		255.3			



TYPICAL CENTERLINE DELINEATION AROUND OBSTRUCTION



TYPICAL CENTERLINE DELINEATION AT THE BEGINNING AND END OF A SHARED USE PATH

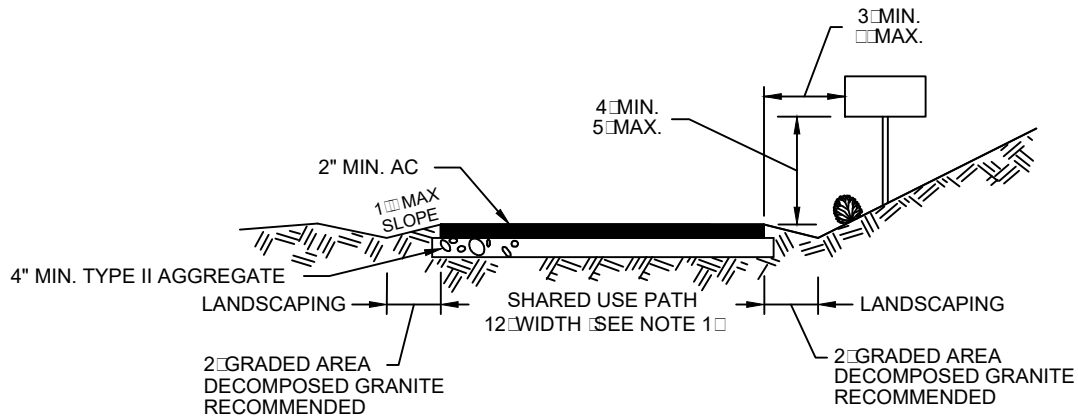
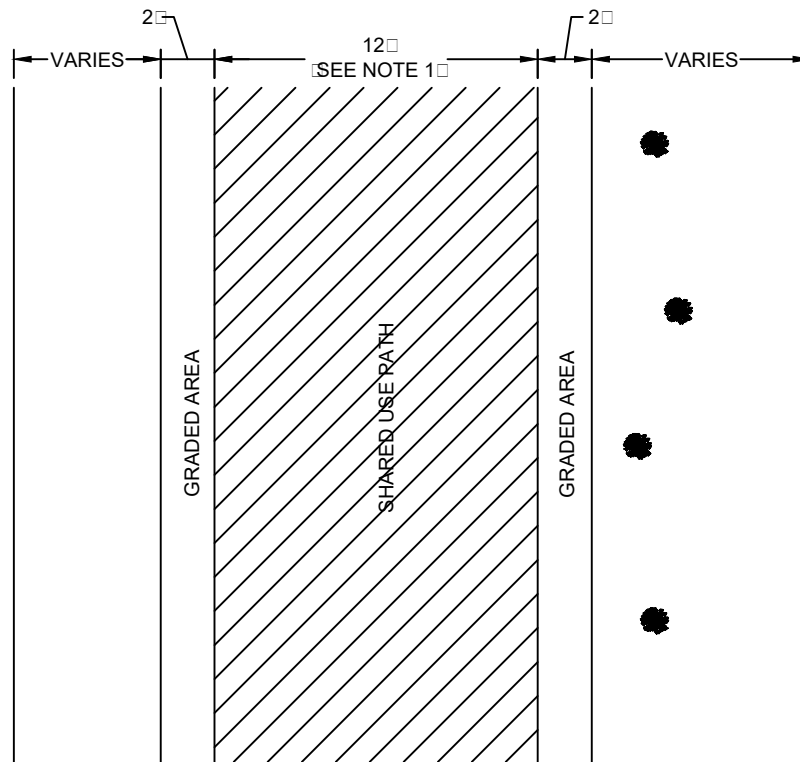
NOTES

1. USE BOLLARDS ONLY AT LOCATIONS WHERE UNAUTHORIZED ACCESS IS ANTICIPATED. INSTALL EITHER 1 OR 3 5 FT. SPACING DESIRABLE, 4 FT. CLEAR SPACING MINIMUM SIX-INCH DIAMETER BY 3 FT. TALL REFLECTORIZED BOLLARDS WHEN NECESSARY. CENTERLINE DELINEATION SHOULD BE PROVIDED AT APPROACH TO INTERSECTION EVEN WHEN BOLLARD IS NOT PROVIDED.
2. ANY OBSTRUCTION IN PATH SHOULD BE REMOVED. IF OBSTRUCTION CANNOT BE REMOVED, OBSTRUCTION MUST BE REFLECTORIZED.
3. USE CENTERLINE DELINEATION AT APPROACHES TO INTERSECTIONS AND AROUND OSTRUCTIONS IN ALL CASES. ONLY USE CENTERLINE DELINEATION IN OTHER CASES WHERE CONFLICTS BETWEEN USERS TRAVELING IN OPPOSITE DIRECTIONS ARE ANTICIPATED.

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
28	TRAFFIC STRIPING
33	PAVEMENT MARKERS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
DELINEATION AND BOLLARD USAGE ON SHARED USE PATH	
DATE 03-12-20	DWG. NO. 255.4



NOTES

1. 12 FOOT WIDTH IS RECOMMENDED. 10 FOOT WIDTH IS ALLOWABLE ALONG A PATH PARALLEL TO A ROADWAY OR WHERE SPACE IS LIMITED. PAVEMENT AND BASE DEPTH WILL VARY BASED ON SOIL CONDITIONS. PORTLAND CEMENT CONCRETE MAY BE USED INSTEAD OF ASPHALT.
2. SEE DRAWING NUMBER 255.1 FOR SHARED USE PATH ALONG A ROADWAY.
3. SEE THE GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, AASHTO 1999, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR ADDITIONAL GUIDELINES AND STANDARDS.
4. SEE LOCAL JURISDICTIONS FOR LANDSCAPING REQUIREMENTS.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

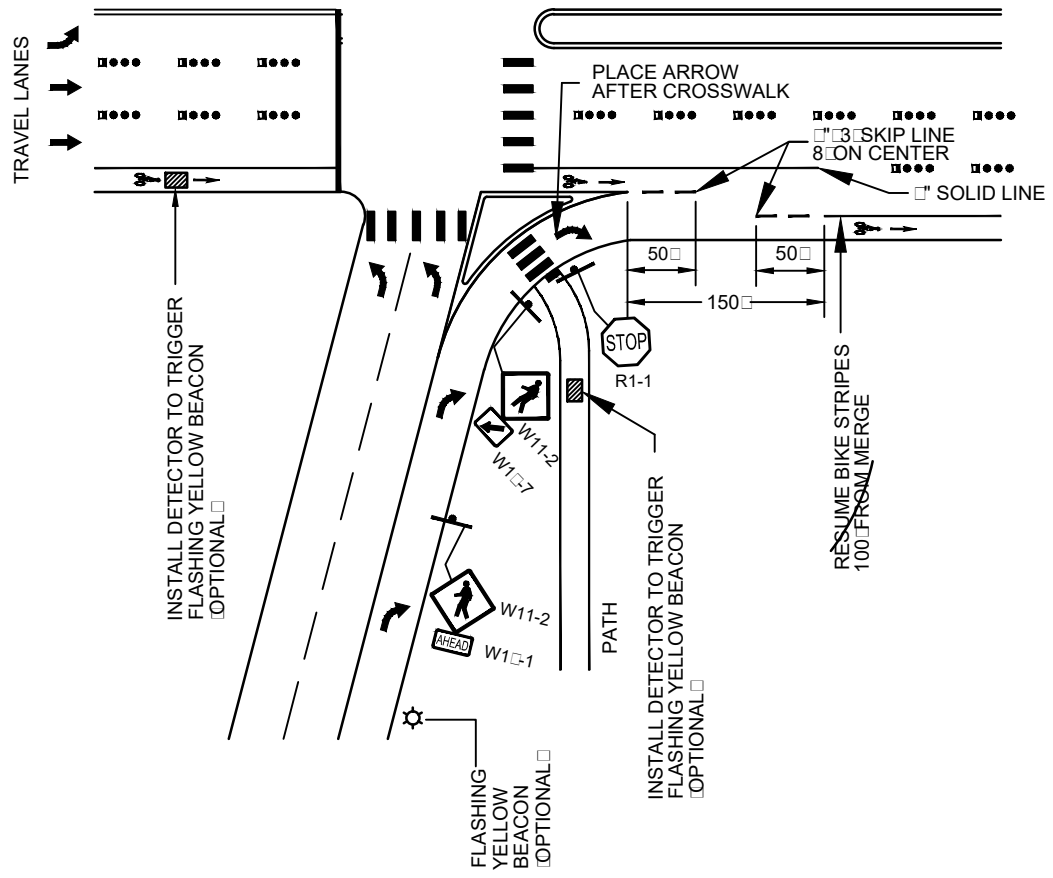
28 PAINTING TRAFFIC STRIPING

33 PAVEMENT MARKERS

SHARED USE PATH

DATE 7-10-03

DWG. NO. 255



NOTES

1. USE ENGINEERING JUDGEMENT TO APPLY THIS DETAIL TO SIMILAR SCENARIOS.
2. CONTACT AGENCY'S TRAFFIC ENGINEER TO VERIFY IF AGENCY PREFERS TO USE A W11-1 BICYCLE SIGN IN PLACE OF THE W11-2 SIGN.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
28	PAINTING TRAFFIC STRIPING
33	PAVEMENT MARKERS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SHARED USE PATH CROSSING OF FREE RIGHT TURN LANE	
DATE 7-10-03	DWG. NO. 25

1. INSTALL STREETLIGHT STANDARDS AT INTERSECTIONS INCLUDING "L" AND "T" TYPES, PER STANDARD DRAWINGS 301 THROUGH 310 IN ACCORDANCE WITH THE APPROPRIATE RIGHT-OF-WAY.

2. STREET CLASSIFICATION AND STREETLIGHT STANDARD APPLICATION SHALL BE AS LISTED IN TABLE 1 BELOW. ACTUAL LUMINAIRE WATTAGE AND/OR STREETLIGHT STANDARD SPACING MAY BE VARIED BY THE ENGINEER, WHEN SUPPORTED BY AN APPROVED LIGHTING STUDY IN ACCORDANCE WITH THE IES RECOMMENDED PRACTICE FOR ROADWAY LIGHTING IN ORDER TO MEET CURRENT AND FUTURE TRAFFIC CONTROL NEEDS AND APPROVED BY THE RESPECTIVE AGENCY. AVERAGE LEVELS ARE MAINTAINED LEVELS AT A 0.8 MAINTENANCE FACTOR 0.82 FOR CLARK COUNTY IN FOOTCANDLES MEASURED HORIZONTALLY AT THE SURFACE.

TABLE 1
HIGH PRESSURE SODIUM (H.P.S.) TYPE LIGHTING

CLASSIFICATION	R/W	LUMINAIRE H.P.S.	AVG. IES LIGHTING LEVEL	IES UNIFORMITY AVG/MIN
ARTERIAL	100' OR MORE	250W	1.58 FC	3:1
MAJOR COLLECTOR	80'	150W 250W (CC)	0.84 FC	4:1
MINOR COLLECTOR	60'	150W 100W (CC)	0.38 FC	5:1
RESIDENTIAL	51' OR LESS	100W	0.38 FC	5:1

3. NEW STREETLIGHT STANDARDS INSTALLED ADJACENT TO OR OPPOSITE FROM EXISTING STREETLIGHTS SHALL MATCH THE EXISTING LOCATION, SPACING, POLE AND LUMINAIRE TYPES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 4. STREETLIGHT STANDARDS INSTALLED ON 60' OR LESS RIGHT-OF-WAYS MAY BE INSTALLED ON EITHER SIDE OF ROADWAY AS DIRECTED BY THE ENGINEER.
 5. TRAFFIC SIGNAL FOUNDATIONS AND ADAPTOR PLATES MAY BE REQUIRED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- AT LEAST ONE STREETLIGHT SHALL BE REQUIRED IN THE BULB SECTION OF A CUL-DE-SAC OR HAMMERHEAD. LOCATION SHALL BE AS REQUIRED BY THE ENGINEER.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C		L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
23	TRAFFIC SIGNALS & STREETLIGHTING						
	SUPPLEMENTAL DRAWING						
	STREETLIGHT LOCATION H.P.S. LIGHTING STANDARDS AND GENERAL NOTES						
	DATE 07-01-13	DWG. NO.	300.S1				

1. INSTALL STREETLIGHT STANDARDS AT INTERSECTIONS INCLUDING "L" AND "T" TYPES, PER STANDARD DRAWINGS 301 THROUGH 310 IN ACCORDANCE WITH THE APPROPRIATE RIGHT-OF-WAY.
2. STREET CLASSIFICATION AND STREETLIGHT STANDARD APPLICATION SHALL BE AS LISTED IN TABLE 1 BELOW. ACTUAL LUMINAIRE WATTAGE AND/OR STREETLIGHT STANDARD SPACING MAY BE VARIED BY THE ENGINEER, WHEN SUPPORTED BY AN APPROVED LIGHTING STUDY IN ACCORDANCE WITH THE IES RECOMMENDED PRACTICE FOR ROADWAY LIGHTING IN ORDER TO MEET CURRENT AND FUTURE TRAFFIC CONTROL NEEDS AND APPROVED BY THE RESPECTIVE AGENCY. AVERAGE LEVELS ARE MAINTAINED LEVELS AT A 0.8 MAINTENANCE FACTOR IN FOOTCANDLES MEASURED HORIZONTALLY AT THE SURFACE.

TABLE 1
INDUCTION TYPE LIGHTING

CLASSIFICATION	RW	LUMINAIRE INDUCTION	AVG PHOTOPIC ILLUMINANCE	UNIFORMITY AVG/MIN
SIGNALIZED INTERSECTIONS	ALL	250W 5000K CCT	1.80 FC	3:1
ARTERIAL	100' OR MORE	150W 5000K CCT	1.24 FC	3:1
MAJOR COLLECTOR	80'	150W 5000K CCT	0.49 FC	4:1
MINOR COLLECTOR	60'	55W 850K CCT	0.17 FC	5:1
RESIDENTIAL	51' OR LESS	55W 850K CCT	0.17 FC	5:1

3. NEW STREETLIGHT STANDARDS INSTALLED ADJACENT TO OR OPPOSITE FROM EXISTING STREETLIGHTS SHALL MATCH THE EXISTING LOCATION, SPACING, POLE AND LUMINAIRE TYPES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. STREETLIGHT STANDARDS INSTALLED ON 60' OR LESS RIGHT-OF-WAYS MAY BE INSTALLED ON EITHER SIDE OF ROADWAY AS DIRECTED BY THE ENGINEER.
5. TRAFFIC SIGNAL FOUNDATIONS AND ADAPTOR PLATES MAY BE REQUIRED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER.
6. AT LEAST ONE STREETLIGHT SHALL BE REQUIRED IN THE BULB SECTION OF A CUL-DE-SAC OR HAMMERHEAD. LOCATION SHALL BE AS REQUIRED BY THE ENGINEER.
7. LUMINAIRE SPECIFICATIONS (MINIMUM VALUES)
 - 80' LIGHT OUTPUT (80,000 HR LIFE
 - SCOTOPIC/PHOTOPIC RATIO OF LIGHT SOURCE 1.8
 - HIGH COLOR RENDITIONS 80 CRI
 - 10 YEAR WARRANTY ON LUMINAIRE AND BALLAST

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED				H		
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
23	TRAFFIC SIGNALS & STREETLIGHTING	SUPPLEMENTAL DRAWING						
		STREETLIGHT LOCATION INDUCTION LIGHTING STANDARDS AND GENERAL NOTES						
		DATE 07-01-13	DWG. NO.	300.S2				

1. INSTALL STREETLIGHT STANDARDS AT INTERSECTIONS INCLUDING "L" AND "T" TYPES, PER STANDARD DRAWINGS 301 THROUGH 310 IN ACCORDANCE WITH THE APPROPRIATE RIGHT-OF-WAY.
2. STREET CLASSIFICATION, THE RESPECTIVE LIGHTING LEVELS, AND STREETLIGHT STANDARD APPLICATION IS LISTED IN TABLE 1 BELOW. ACTUAL LUMINAIRE WATTAGE AND/OR STREETLIGHT STANDARD SPACING MAY BE VARIED BY THE ENGINEER, WHEN SUPPORTED BY AN APPROVED LIGHTING STUDY IN ACCORDANCE WITH THE IES RECOMMENDED PRACTICE FOR ROADWAY LIGHTING IN ORDER TO MEET CURRENT AND FUTURE TRAFFIC CONTROL NEEDS AND APPROVED BY THE RESPECTIVE AGENCY. FOR LED FIXTURES, THE AVERAGE LEVELS ARE MAINTAINED AT A 0.92 MAINTENANCE FACTOR IN FOOTCANDLES MEASURED HORIZONTALLY AT GROUND LEVEL.
3. NEW STREETLIGHT STANDARDS INSTALLED ADJACENT TO OR OPPOSITE FROM EXISTING STREETLIGHTS SHALL MATCH THE EXISTING LOCATION, SPACING, POLE AND LUMINAIRE TYPES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. STREETLIGHT STANDARDS INSTALLED ON 10' OR LESS RIGHT-OF-WAYS MAY BE INSTALLED ON EITHER SIDE OF ROADWAY AS DIRECTED BY THE ENGINEER.
5. TRAFFIC SIGNAL FOUNDATIONS AND ADAPTOR PLATES MAY BE REQUIRED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER.
6. AT LEAST ONE STREETLIGHT SHALL BE REQUIRED IN THE BULB SECTION OF A CUL-DE-SAC OR HAMMERHEAD. LOCATION SHALL BE AS REQUIRED BY THE ENGINEER.
7. FOR A SPECIFIC FIXTURE TO BE APPROVED, AN INDEPENDENT EVALUATION WITH THE AGI32 LIGHTING MODELING SOFTWARE PROGRAM OR OTHER SOFTWARE APPROVED BY THE AGENCY SHALL BE SUBMITTED FOR REVIEW BY THE AGENCY. THE IES PHOTOMETRIC FILE SHALL BE LOADED INTO THE MODEL AND ALL REQUIRED INPUTS SHALL CONFORM TO THE LOCATION, HEIGHT, AND OTHER ASSOCIATED FACTORS DESIGNATED IN DRAWINGS 301 THROUGH 310 IN ACCORDANCE WITH THE APPROPRIATE RIGHT-OF-WAY.

TABLE 1

REQUIRED ILLUMINANCE VALUES FOR ROADWAYS					
ROADWAY CLASS	R.O.W. WIDTHS	ROADWAY LIGHTING ILLUMINANCE LEVELS		SIDEWALK / WALKWAY ILLUMINANCE LIGHTING LEVELS	
		MIN. AVG.	UNIFORMITY AVG./MIN.	MIN. ILLUMINANCE	UNIFORMITY AVG./ MIN.
ARTERIAL	100' OR GREATER	1.58 FC	3%	0.2 FC	4%
MAJOR COLLECTOR	80' TO 99'	0.84 FC	4%	0.2 FC	4%
MINOR COLLECTOR	50' TO 79'	0.38 FC	5%	0.08 FC	5%
RESIDENTIAL	51' OR LESS	0.38 FC	5%	0.08 FC	5%

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
023	TRAFFIC SIGNALS & STREETLIGHTING	SUPPLEMENTAL DRAWING						
		STREETLIGHT LOCATION L.E.D. LIGHTING STANDARDS AND GENERAL NOTES						
		DATE 07-01-14	DWG. NO.	300.S3	SHEET 1 OF 2			

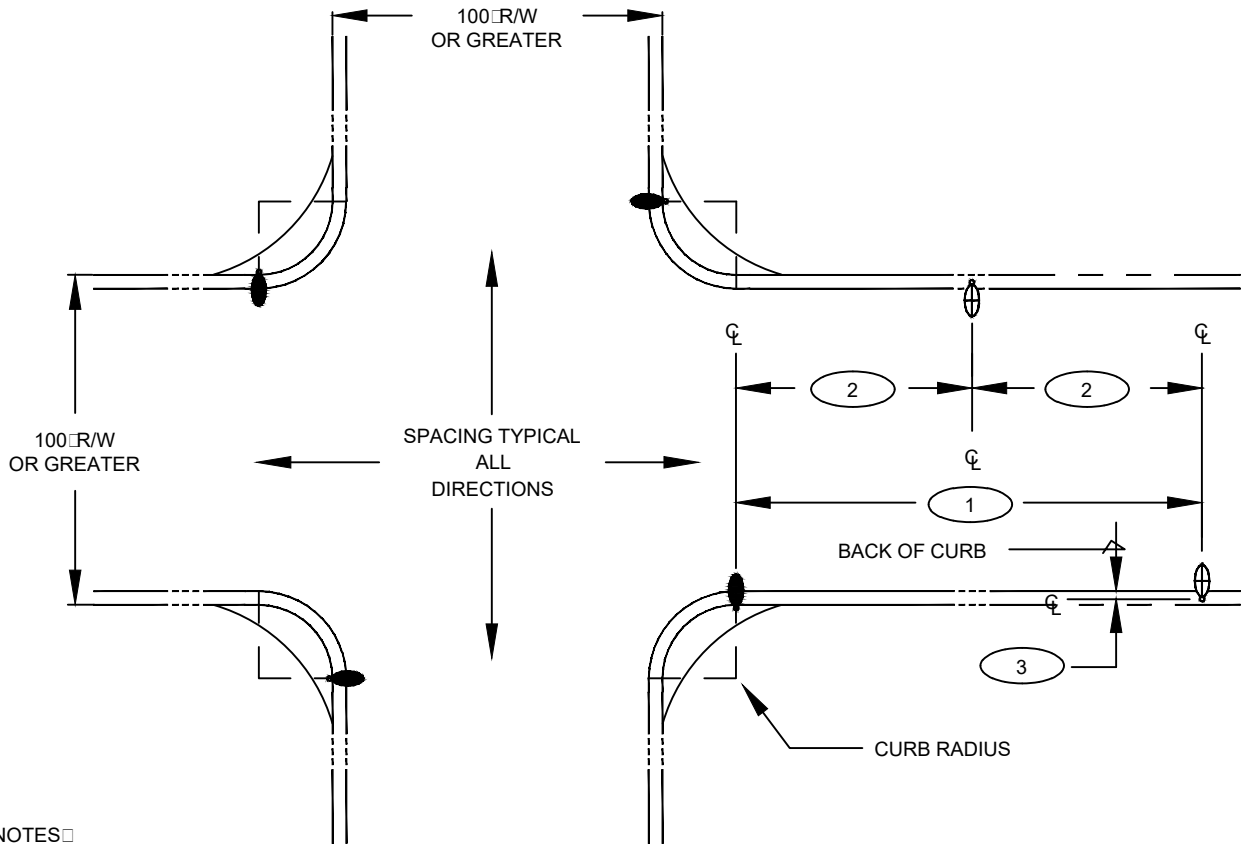
8. FOR EACH FIXTURE ASSESSED, UPON DEMONSTRATION OF THE ADEQUATE ILLUMINATION CAPABILITY THROUGH THE COMPUTER MODEL ON THE SPECIFIC ROADWAY TYPE, THE VENDOR SHALL DELIVER THE REQUESTED NUMBER OF LUMINAIRES OF THAT TYPE FOR FURTHER AGENCY EVALUATION. THEY WILL BE EVALUATED ON THE CRITERIA NOTED IN THE FOLLOWING SECTION, THOUGH THE AGENCY MAY INCLUDE ADDITIONAL REQUIREMENTS. FINAL APPROVAL AND ACCEPTANCE OF THE RESPECTIVE LUMINAIRES FOR A SPECIFIC APPLICATION SHALL BE AT THE SOLE DISCRETION OF THE PURCHASING AGENCY.
9. THE FOLLOWING LIST REPRESENTS THE CRITERIA UPON WHICH EACH LUMINAIRE SHALL BE EVALUATED. THE AGENCY MAY INCLUDE ADDITIONAL ITEMS FOR EVALUATION AT ITS SOLE DISCRETION.
- COLOR RENDERING INDEX
 - ENERGY EFFICIENCY
 - AESTHETICS
 - QUALITY OF CONSTRUCTION
 - WEATHERPROOFING
 - IP65 RATING
 - DURABILITY
 - EASE OF MAINTENANCE
 - EASE OF INSTALLATION
 - WEIGHT
 - POWER CONSUMPTION
 - COLOR TEMPERATURE (CCT)
 - LIFE OF FIXTURE AND INDIVIDUAL COMPONENTS
 - LENGTH OF WARRANTY LUMINAIRE FIXTURE, LED'S, AND BALLAST
 - INITIAL COST
 - LIFE CYCLE COST
 - LM 79, LM 80
 - BUG RATING (BACKLIGHTING, UPLIGHTING, GLARE)
 - TRANSIENT VOLTAGE SURGE SUPPRESSION - SPD (SURGE PROTECTION DEVICE)

TABLE 2

REQUIRED ILLUMINANCE VALUES FOR SIGNALIZED INTERSECTIONS							
ROADWAY CLASS	R.O.W. WIDTHS	MIN. AVE. ILLUMINANCE BY PEDESTRIAN AREA CLASSIFICATION			SIDEWALK / WALKWAY LIGHTING LEVELS		
		HIGH	MEDIUM	LOW	MIN. AVG. ILLUMINANCE	MIN. ILLUMINANCE	UNIFORMITY AVG./ MIN.
ARTERIAL / ARTERIAL	100' OR GREATER BY 100' OR GREATER BY	3.4 FC	2.0 FC	1.8 FC	2.0 FC	1.0 FC	4:1
ARTERIAL / MAJOR COLLECTOR	100' OR GREATER BY 80' OR GREATER BY	2.9 FC	2.2 FC	1.5 FC	2.0 FC	1.0 FC	4:1
ARTERIAL / MINOR COLLECTOR - RESIDENTIAL	100' OR GREATER BY 79' OR LESS	2.0 FC	2.0 FC	1.3 FC	2.0 FC	1.0 FC	4:1
MAJOR COLLECTOR / MAJOR COLLECTOR	80' - 99' BY 80' - 99'	2.4 FC	1.8 FC	1.2 FC	2.0 FC	1.0 FC	4:1
MAJOR COLLECTOR / RESIDENTIAL	80' - 99' BY 79' OR LESS	2.1 FC	1.0 FC	1.0 FC	2.0 FC	1.0 FC	4:1

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
23	TRAFFIC SIGNALS & STREETLIGHTING	SUPPLEMENTAL DRAWING			
		STREETLIGHT LOCATION L.E.D. LIGHTING STANDARDS AND GENERAL NOTES			
		DATE 07-01-14	DWG. NO. 300.S3	SHEET 2 OF 2	



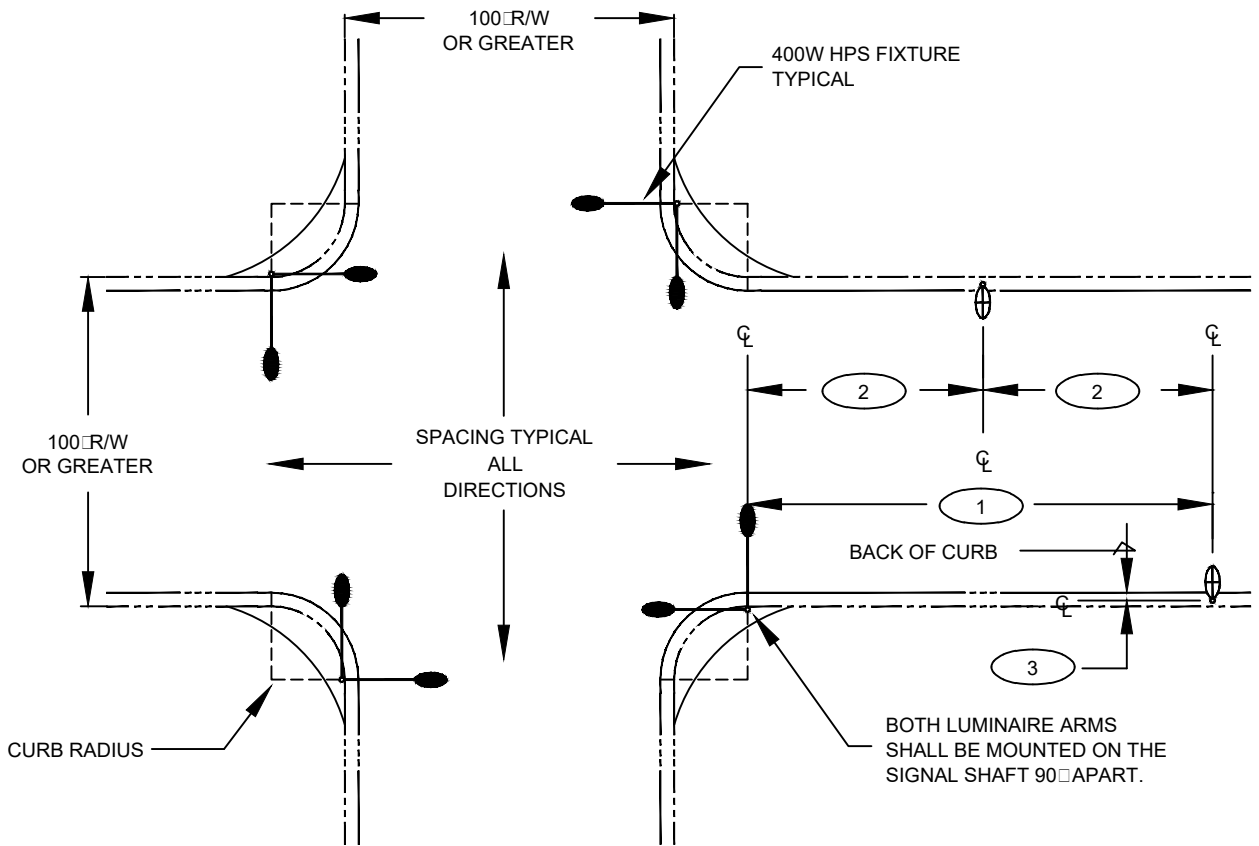
NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
- B** **H** 3. CITY OF HENDERSON AND BOULDER CITY REQUIRE STREETLIGHTING IN THE MEDIAN FOR RIGHTS-OF-WAY 100 FEET OR GREATER. SEE STANDARD DRAWING NO. 312.S2. IN THE ABSENCE OF A MEDIAN, STREETLIGHT LOCATION SHALL BE THE SAME AS THE OTHER ENTITIES.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	CLV	NLV	MES	BC	HND
1				100		140
2			80			70
3		SEE DRAWING NO. 320				N/A
INTERSECTION LUMINAIRE TYPE		400W HPS		150W IND.		

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
<input type="checkbox"/> 23	TRAFFIC SIGNALS <input type="checkbox"/> STREETLIGHTING	SUPPLEMENTAL DRAWING				
		STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER/100' OR GREATER RIGHT-OF-WAY				
		DATE 07-01-13	DWG. NO.	301.S1	PAGE NO.	



NOTES

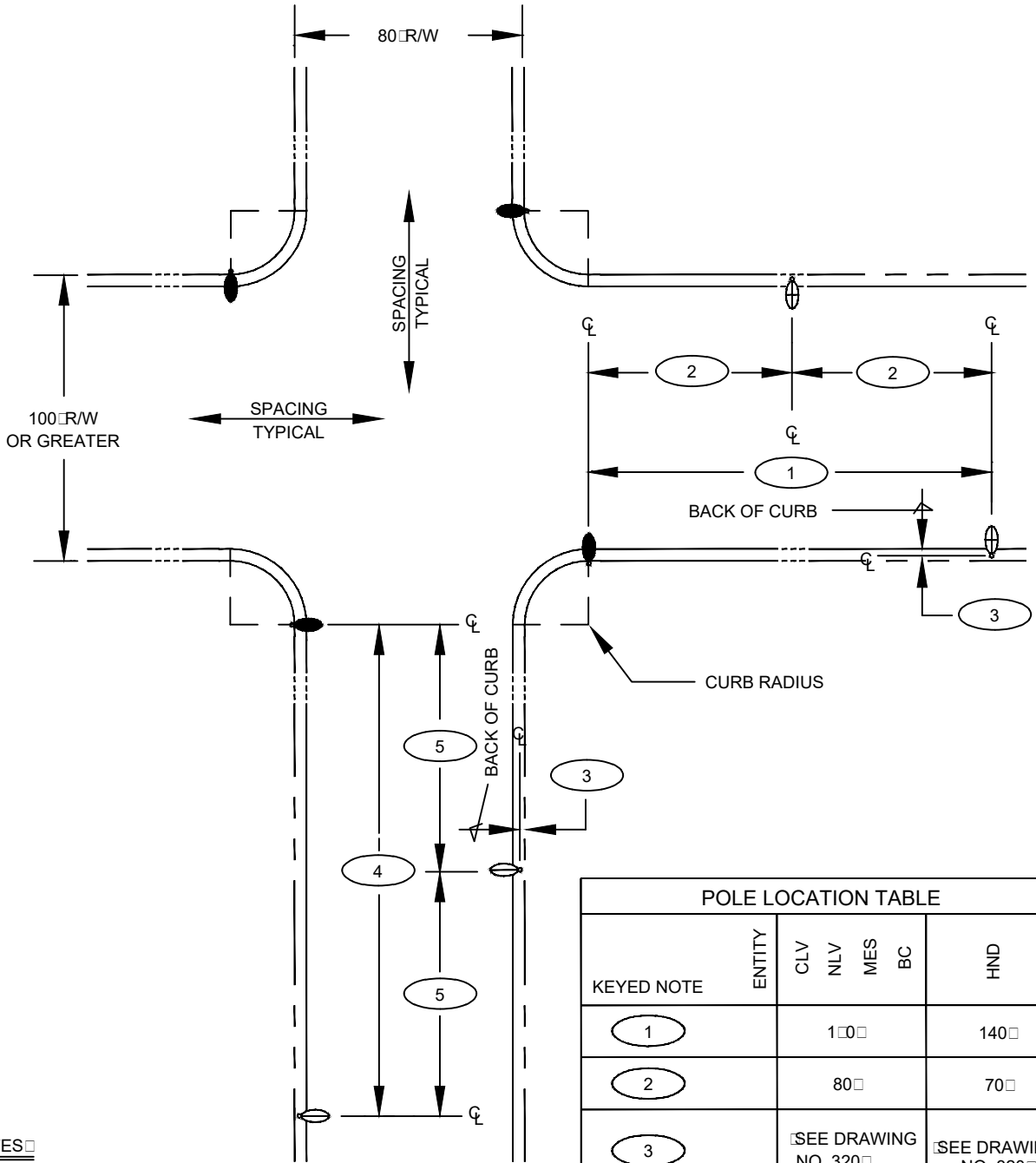
1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. WITH THE ENGINEER'S APPROVAL, A SECOND LUMINAIRE MOUNTING PLATE MAY BE FIELD WELDED BY A CERTIFIED WELDER.
4. ALL LUMINAIRE MAST ARMS FOR 400W FIXTURES SHALL BE 15 FT. LONG AND INSTALLED PER STANDARD DRAWING NO. 808 UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

POLE LOCATION TABLE	
KEYED NOTE	ENTITY
1	120'
2	100'
3	SEE DRAWING NO. 320

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED C

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
23	TRAFFIC SIGNALS & STREETLIGHTING	SUPPLEMENTAL DRAWING	
		STREETLIGHT LOCATIONS AT INTERSECTIONS 100 FT. OR GREATER/100 FT. OR GREATER RIGHT-OF-WAY	
DATE	07-01-13	DWG. NO.	301.S2



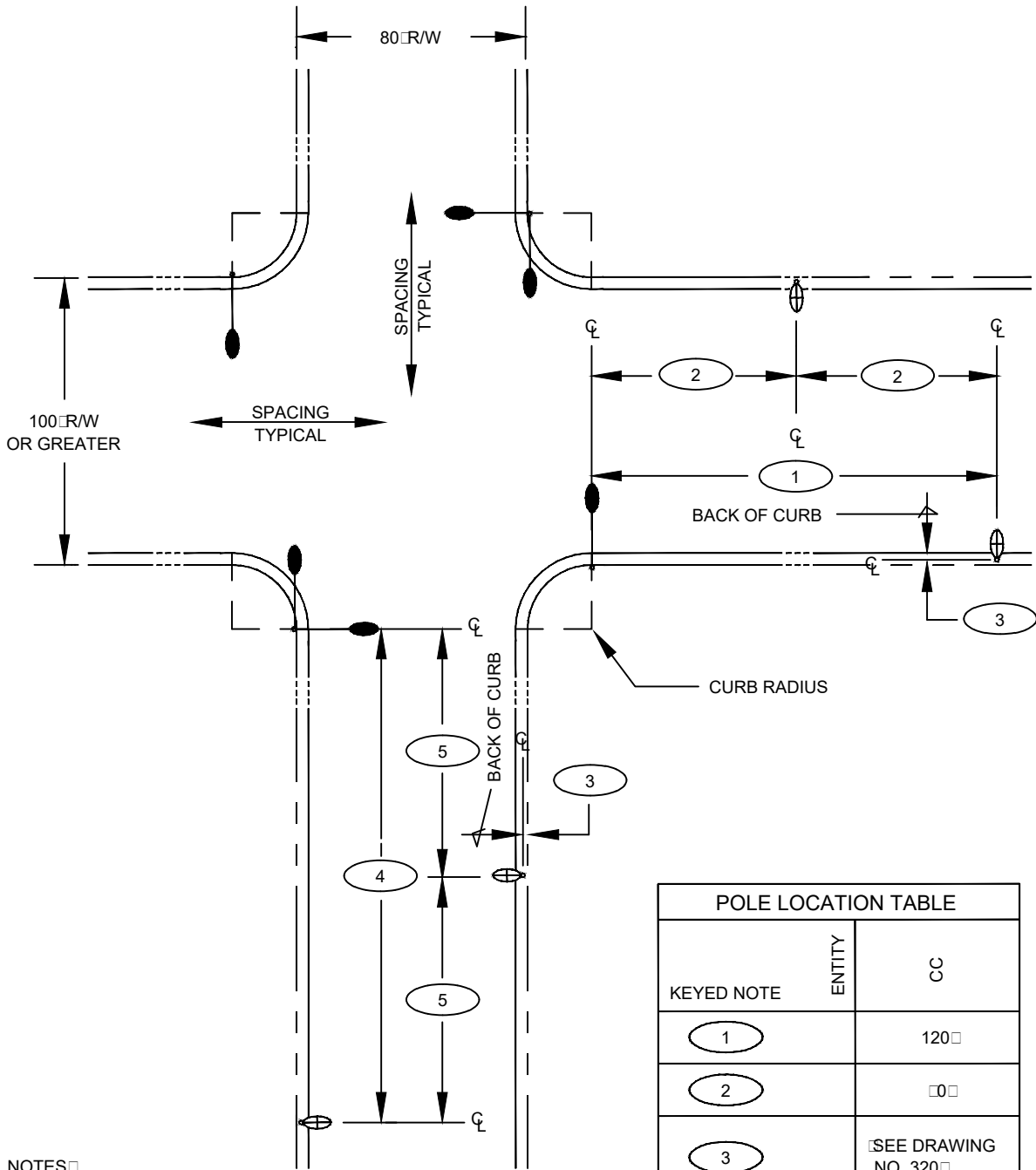
NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. CITY OF HENDERSON AND BOULDER CITY REQUIRE STREETLIGHTING IN THE MEDIAN FOR RIGHTS-OF-WAY 100 FEET OR GREATER. SEE STANDARD DRAWING NO. 312. IN THE ABSENCE OF A MEDIAN, STREETLIGHT LOCATION SHALL BE THE SAME AS THE OTHER ENTITIES.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	CLV	NLV	MES	BC	HND
1		100				140
2		80				70
3		SEE DRAWING NO. 320				SEE DRAWING NO. 320
4		170				140
5		85				70
INTERSECTION LUMINAIRE TYPE		400W HPS				150W IND

AGENCY APPROVED B H L M N

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
23	TRAFFIC SIGNALS STREETLIGHTING	SUPPLEMENTAL DRAWING		
		STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER/80' RIGHT-OF-WAY		
		DATE 07-01-13	DWG. NO. 302.S1	PAGE NO.



NOTES

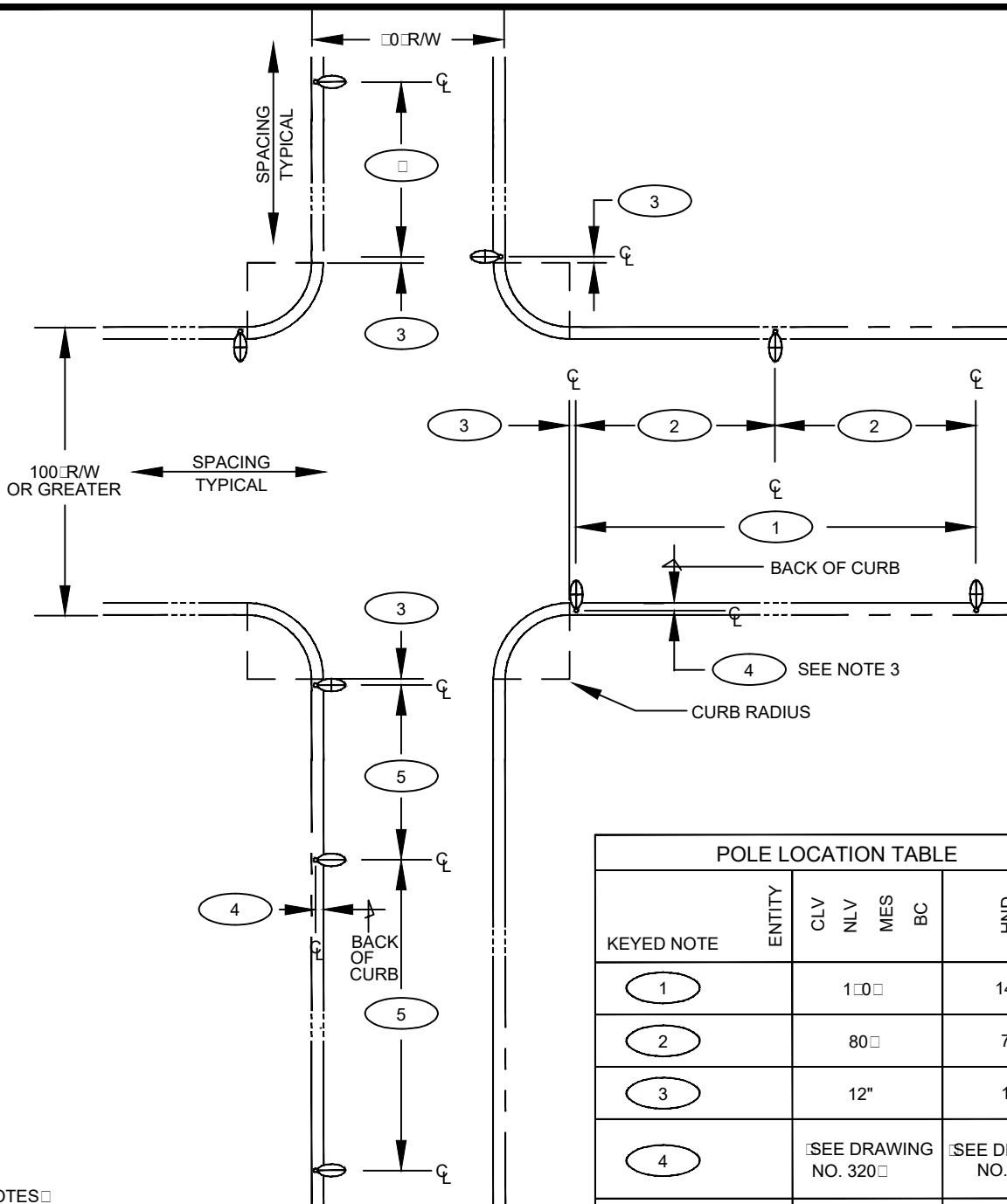
1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. ALL LUMINAIRE MAST ARMS FOR 400W FIXTURES SHALL BE 15 FT. LONG AND INSTALLED PER STANDARD DRAWING NO. 808 UNLESS OTHERWISE APPROVED BY THE ENGINEER.

POLE LOCATION TABLE	
KEYED NOTE	ENTITY
1	120'
2	0'
3	SEE DRAWING NO. 320
4	170'
5	85'

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		C			
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER/80' RIGHT-OF-WAY					
DATE 07-01-13		DWG. NO. 302.S2		PAGE NO.	

SPECIFICATION REFERENCE	
23	TRAFFIC SIGNALS & STREETLIGHTING



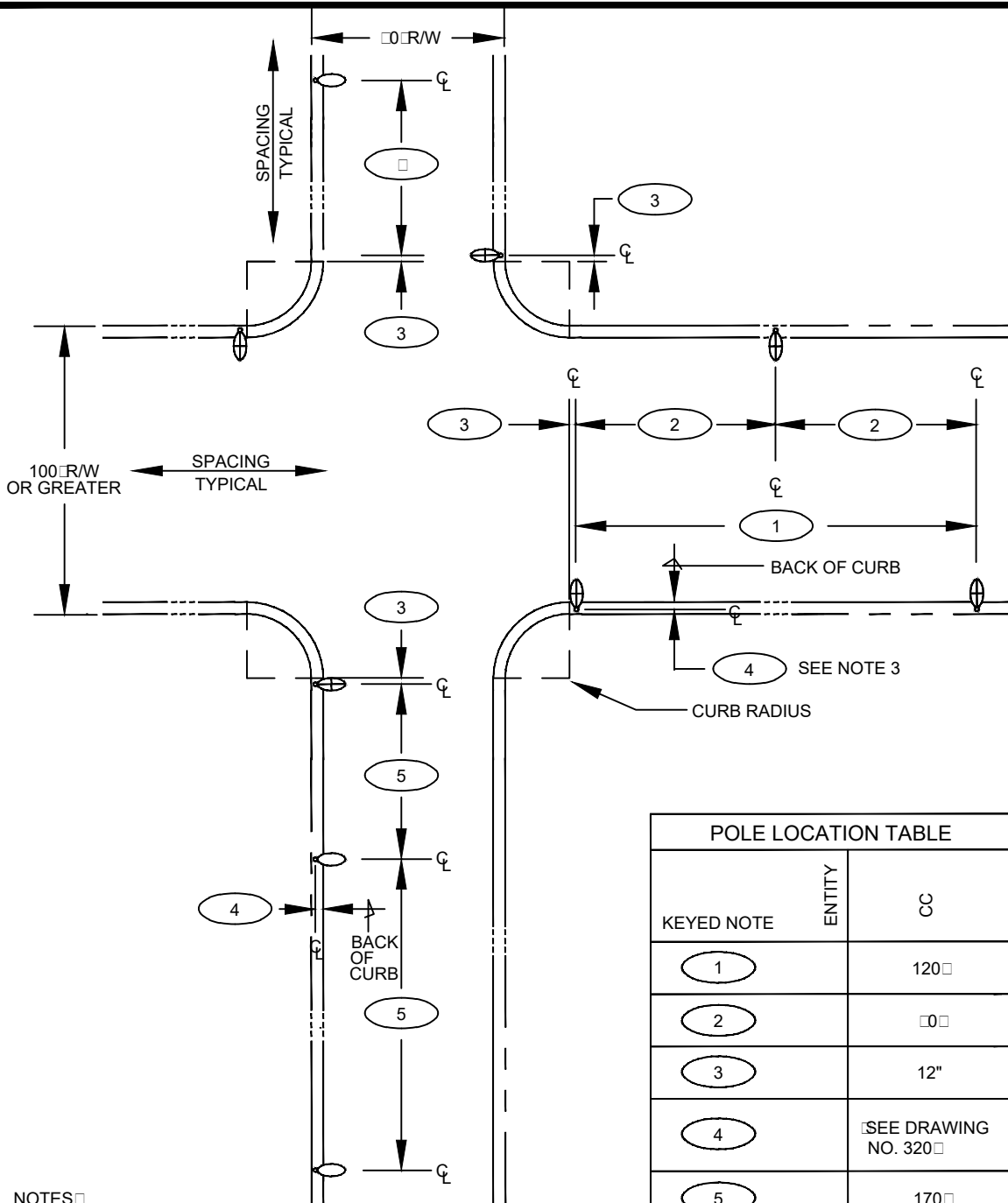
NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300 IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. CITY OF HENDERSON AND BOULDER CITY REQUIRE STREETLIGHTING IN THE MEDIAN FOR RIGHTS-OF-WAY 100 FEET OR GREATER. SEE STANDARD DRAWING NO. 312. IN THE ABSENCE OF A MEDIAN, STREETLIGHT LOCATION SHALL BE THE SAME AS THE OTHER ENTITIES.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	CLV	NLV	MES	BC	HND
1		100				140
2		80				70
3		12"				12"
4		SEE DRAWING NO. 320				SEE DRAWING NO. 320
5		180				170
		90				170
INTERSECTION LUMINAIRE TYPE		250W HPS			150W IND	

AGENCY APPROVED			L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER / 100' RIGHT-OF-WAY					
DATE	07-01-13	DWG. NO.	303.S1		

SPECIFICATION REFERENCE	
23	TRAFFIC SIGNALS & STREETLIGHTING



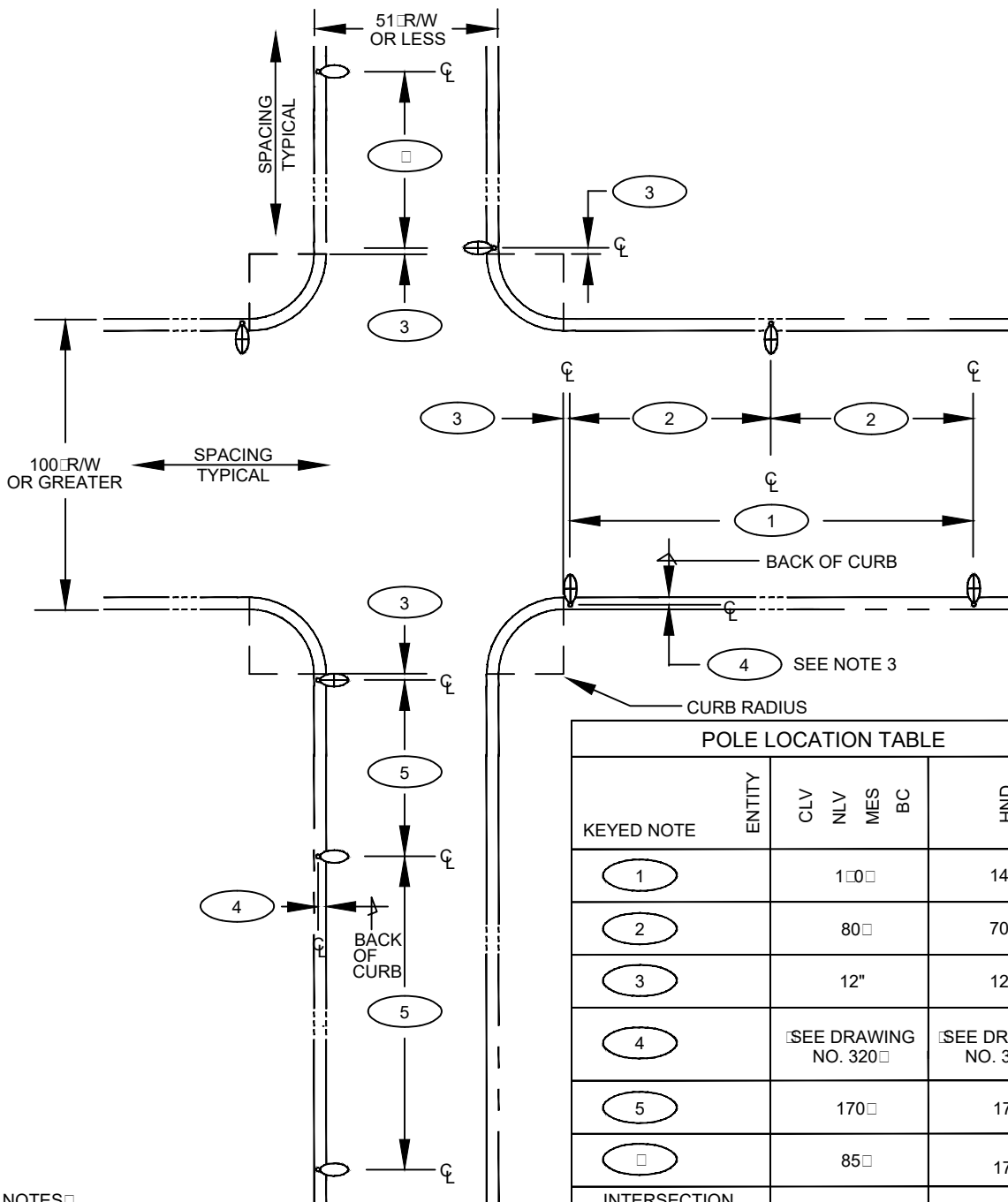
NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300 IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. IF INTERSECTION IS SIGNALIZED, 400 WATT LUMINAIRES SHALL BE INSTALLED ON ALL CORNERS AND DUAL ARM CONFIGURATION SHALL BE USED FOR 100 FT. RIGHT-OF-WAY SIMILAR TO STANDARD DRAWING NO. 302.S2.

POLE LOCATION TABLE		
KEYED NOTE	ENTITY	Ø
1		120"
2		10"
3		12"
4		SEE DRAWING NO. 320
5		170"
□		170"

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED				C			
□23	TRAFFIC SIGNALS □ STREETLIGHTING	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
		SUPPLEMENTAL DRAWING							
		STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER / 10' RIGHT-OF-WAY							
		DATE 07-01-13	DWG. NO.	303.S2					



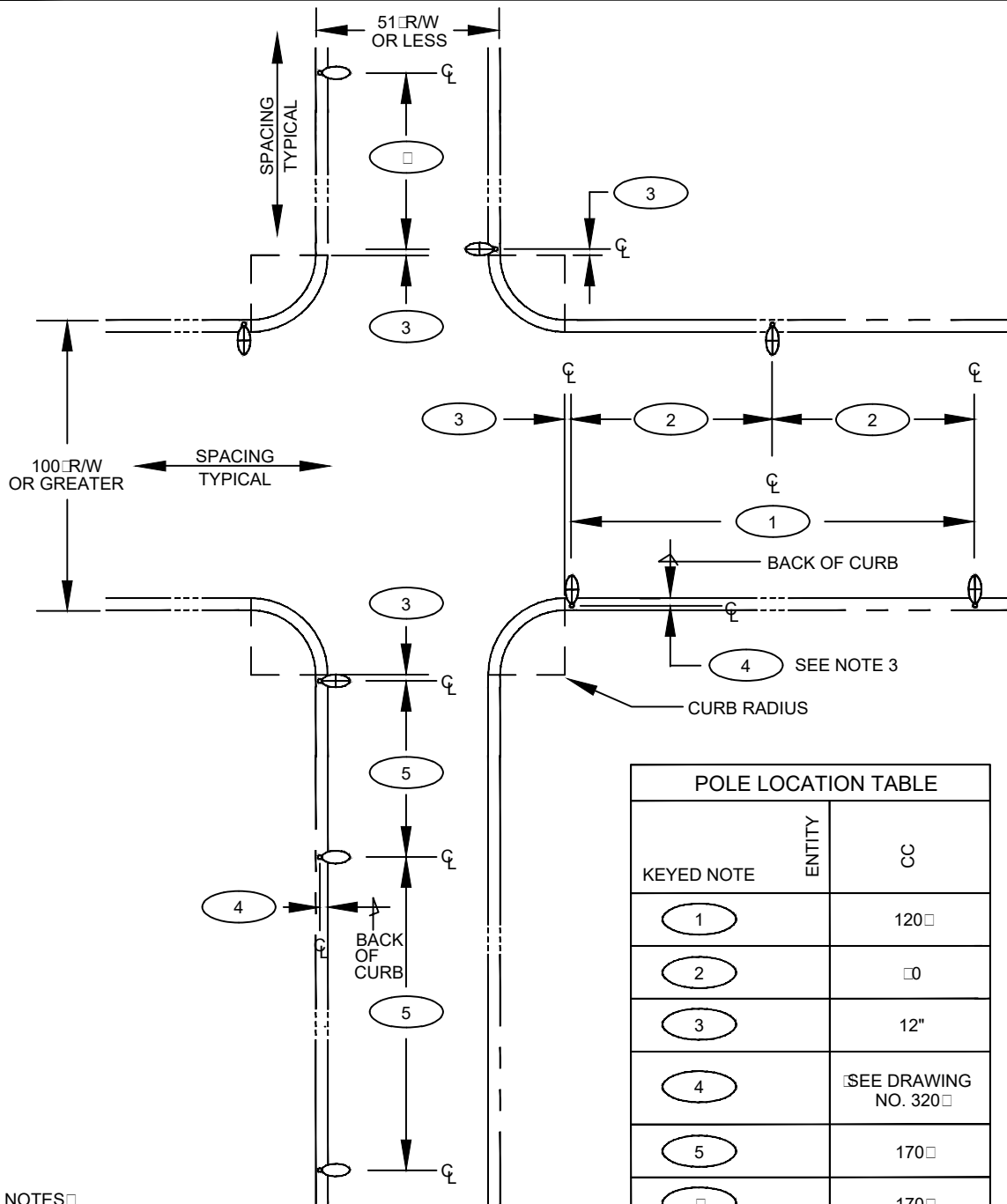
POLE LOCATION TABLE						
KEYED NOTE	ENTITY	CLV	NLV	MES	BC	HND
1			100			140
2			80			70
3			12"			12"
4		SEE DRAWING NO. 320		SEE DRAWING NO. 320		
5			170			170
			85			170
INTERSECTION LUMINAIRE TYPE		250W HPS		150W IND		

NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300 IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET. ADEQUATE INTERSECTION LIGHTING SHALL ALSO BE ADDRESSED IN THE LIGHTING STUDY.
3. CITY OF HENDERSON AND BOULDER CITY REQUIRE STREETLIGHTING IN THE MEDIAN FOR RIGHTS-OF-WAY 100 FEET OR GREATER. SEE STANDARD DRAWING NO. 312.S2. IN THE ABSENCE OF A MEDIAN, STREETLIGHT LOCATION SHALL BE THE SAME AS THE OTHER ENTITIES.

AGENCY APPROVED			L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER/51' OR LESS RIGHT-OF-WAY					
DATE 07-01-13	DWG. NO.	304.S1			

SPECIFICATION REFERENCE	
23	TRAFFIC SIGNALS □ STREETLIGHTING



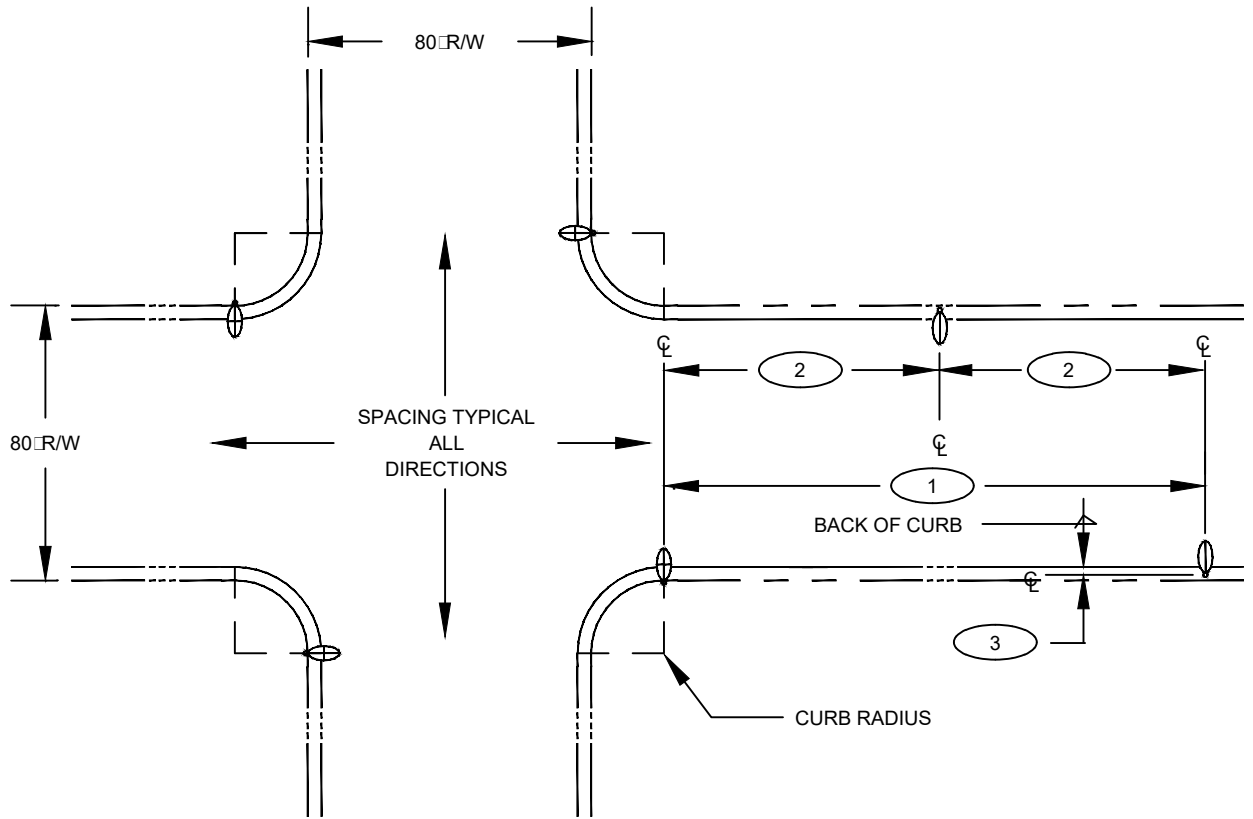
NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 300.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300 IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET. ADEQUATE INTERSECTION LIGHTING SHALL ALSO BE ADDRESSED IN THE LIGHTING STUDY.
3. IF INTERSECTION IS SIGNALIZED, 400 WATT LUMINAIRES SHALL BE INSTALLED ON ALL CORNERS AND DUAL ARM CONFIGURATION SHALL BE USED FOR 100 FT. RIGHT-OF-WAY SIMILAR TO STANDARD DRAWING NO. 302.S2.

POLE LOCATION TABLE		
KEYED NOTE	ENTITY	C
1		120'
2		0'
3		12"
4		SEE DRAWING NO. 320
5		170'
□		170'

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		C				
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
23	TRAFFIC SIGNALS □ STREETLIGHTING	SUPPLEMENTAL DRAWING				
		STREETLIGHT LOCATIONS AT INTERSECTIONS 100' OR GREATER/51' OR LESS RIGHT-OF-WAY				
DATE 07-01-13		DWG. NO.	304.S2			

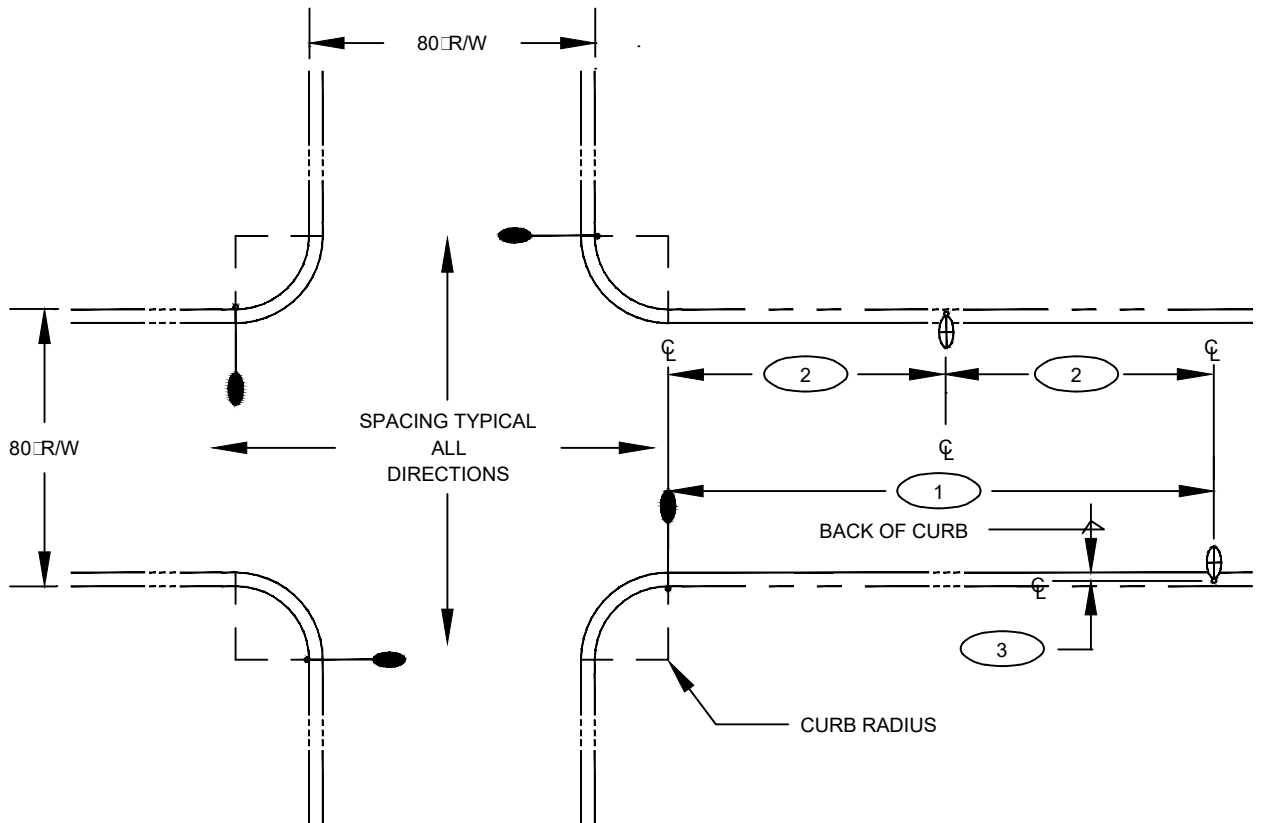


NOTE
SEE GENERAL NOTES STANDARD DRAWING NO. 300.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	HND
1			170			140
2			85			70
3		SEE DRAWING NO. 320			SEE DRAWING NO. 320	
INTERSECTION LUMINAIRE TYPE		250W HPS			150W IND	

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED						B		H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
23	TRAFFIC SIGNALS STREETLIGHTING	SUPPLEMENTAL DRAWING											
		STREETLIGHT LOCATIONS AT INTERSECTIONS 80/80 RIGHT-OF-WAY											
		DATE	07-01-13	DWG. NO.	305.S1	PAGE NO.							



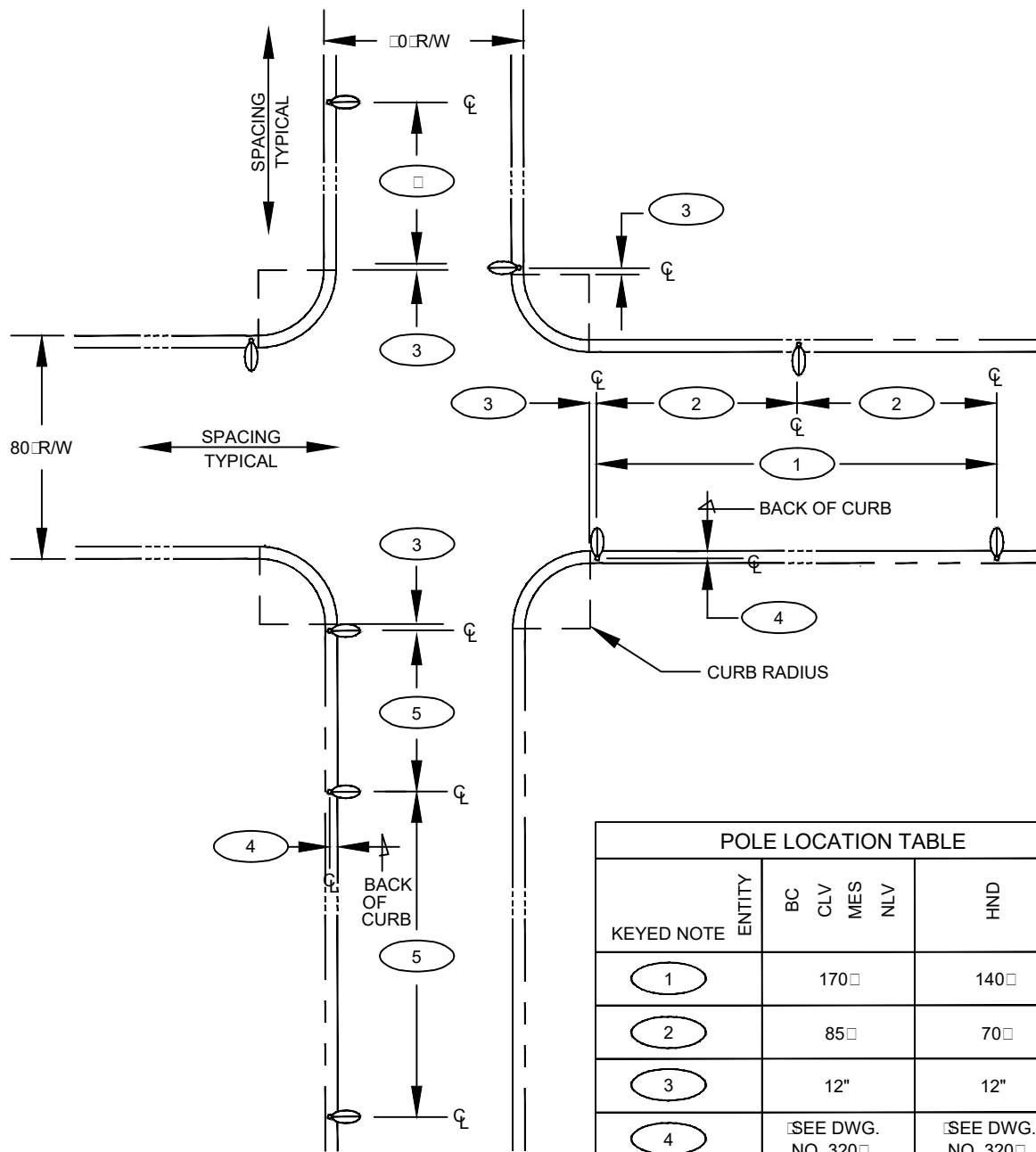
NOTE

SEE GENERAL NOTES STANDARD DRAWING NO. 300.

POLE LOCATION TABLE		
KEYED NOTE	ENTITY	CLARK COUNTY
1		170'
2		85'
3		SEE DRAWING NO. 320

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED				C			
23	TRAFFIC SIGNALS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
	STREETLIGHTING	SUPPLEMENTAL DRAWING							
		STREETLIGHT LOCATIONS AT INTERSECTIONS 80' / 80' RIGHT-OF-WAY							
		DATE 07-01-13	DWG. NO.	305.S2	PAGE NO.				

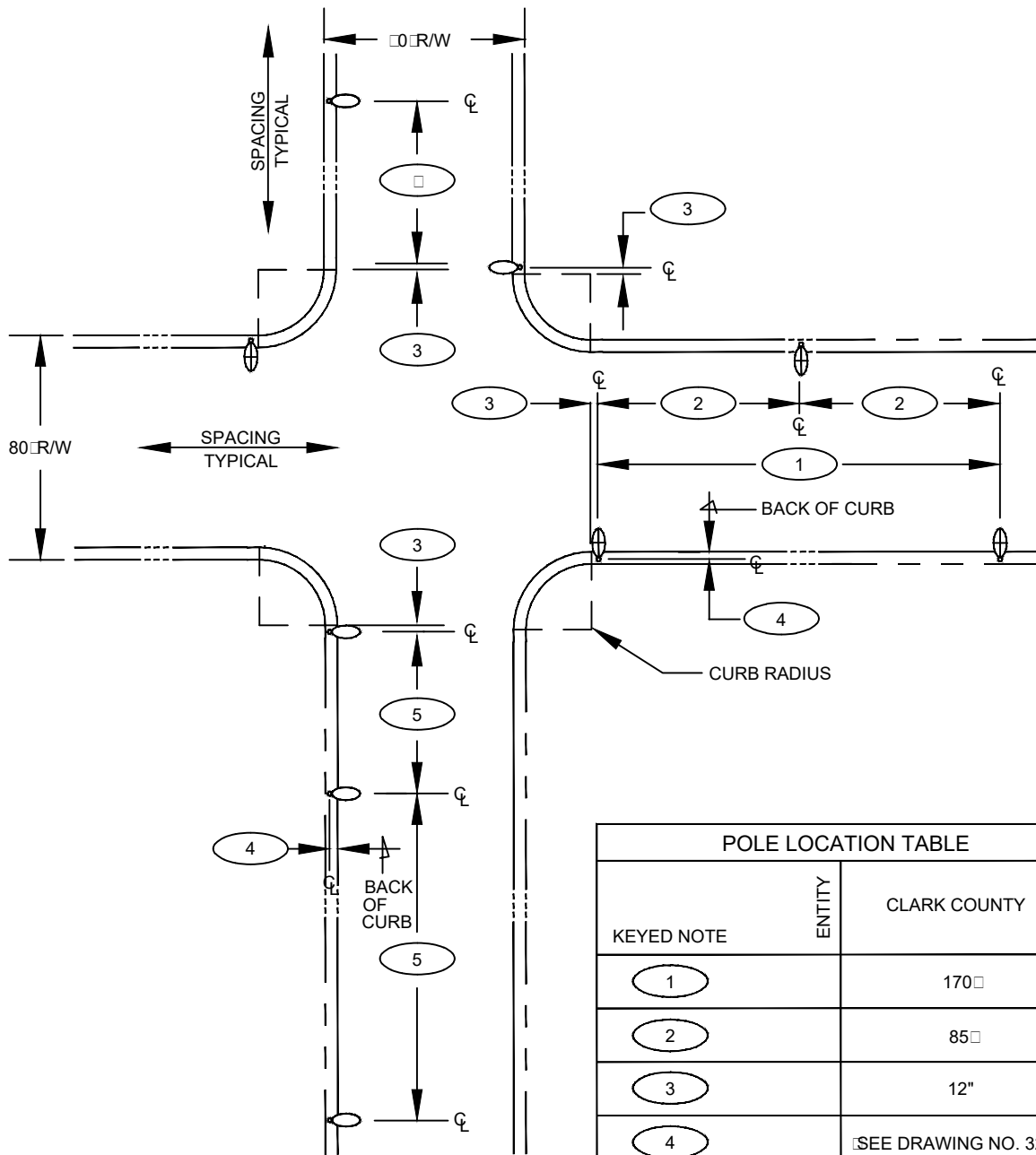


NOTE
SEE GENERAL NOTES STANDARD DRAWING NO. 300.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	HND
1			170'			140'
2			85'			70'
3			12"			12"
4		SEE DWG. NO. 320		SEE DWG. NO. 320		
5			180'			170'
			90'			85'
INTERSECTION LUMINAIRE TYPE			150W HPS			150W IND

Effective 10/08/2020 to 12/09/2020

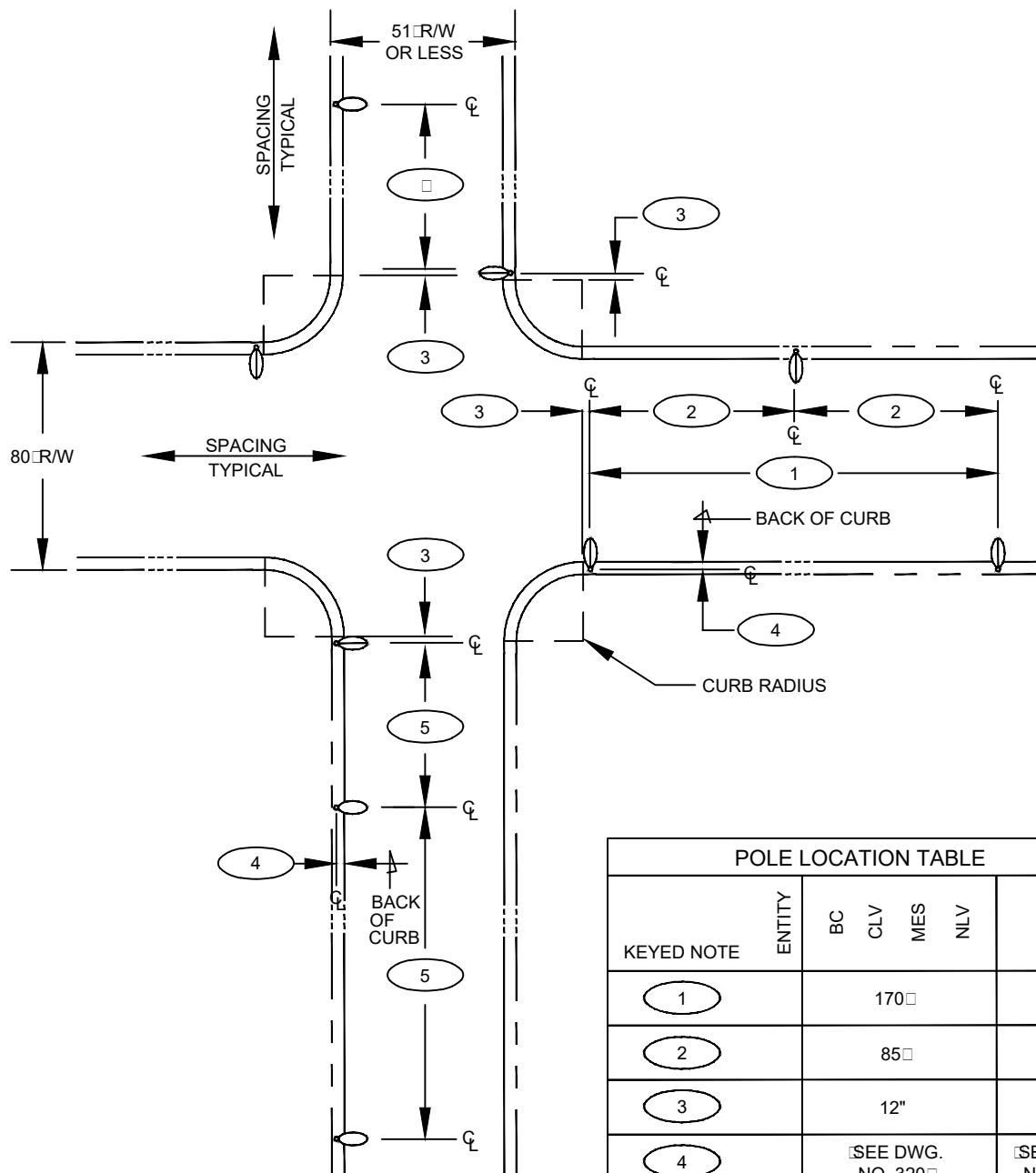
SPECIFICATION REFERENCE		AGENCY APPROVED					
23		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
TRAFFIC SIGNALS STREETLIGHTING		SUPPLEMENTAL DRAWING					
		STREETLIGHT LOCATIONS AT INTERSECTIONS 80' RIGHT-OF-WAY					
		DATE 07-01-13		DWG. NO.		30-S1	



POLE LOCATION TABLE		
KEYED NOTE	ENTITY	CLARK COUNTY
1		170'
2		85'
3		12"
4		SEE DRAWING NO. 320
5		170'
□		85'

- NOTE**
- SEE GENERAL NOTES STANDARD DRAWING NO. 300.
 - IF THE INTERSECTION IS SIGNALIZED, 400 WATT LUMINAIRES SHALL BE INSTALLED ON ALL CORNERS.

AGENCY APPROVED		C			
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
23	TRAFFIC SIGNALS □ STREETLIGHTING	SUPPLEMENTAL DRAWING			
		STREETLIGHT LOCATIONS AT INTERSECTIONS 80' □ RIGHT-OF-WAY			
DATE	07-01-13	DWG. NO.	30	S2	

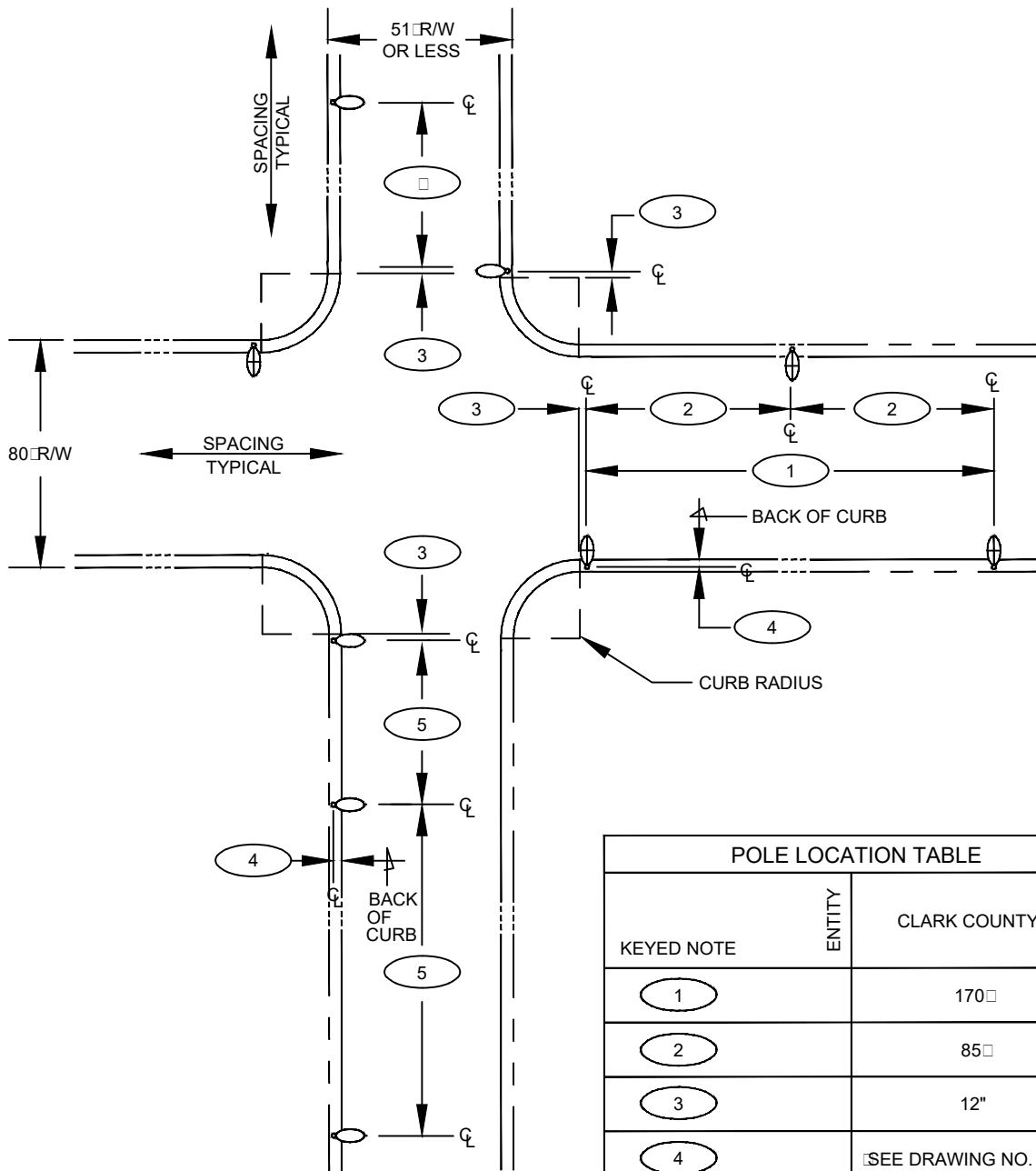


NOTE
SEE GENERAL NOTES STANDARD DRAWING NO. 300.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	HND
1			170'			140'
2			85'			70'
3			12"			12"
4		SEE DWG. NO. 320				SEE DWG. NO. 320
5			170'			170'
□			85'			85'
INTERSECTION LUMINAIRE TYPE			150W HPS			150W IND

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
□23 TRAFFIC SIGNALS □ STREETLIGHTING		B		H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		SUPPLEMENTAL DRAWING					
		STREETLIGHT LOCATIONS AT INTERSECTIONS 80' / 51' OR LESS RIGHT-OF-WAY					
		DATE 07-01-13	DWG. NO.		307.S1		

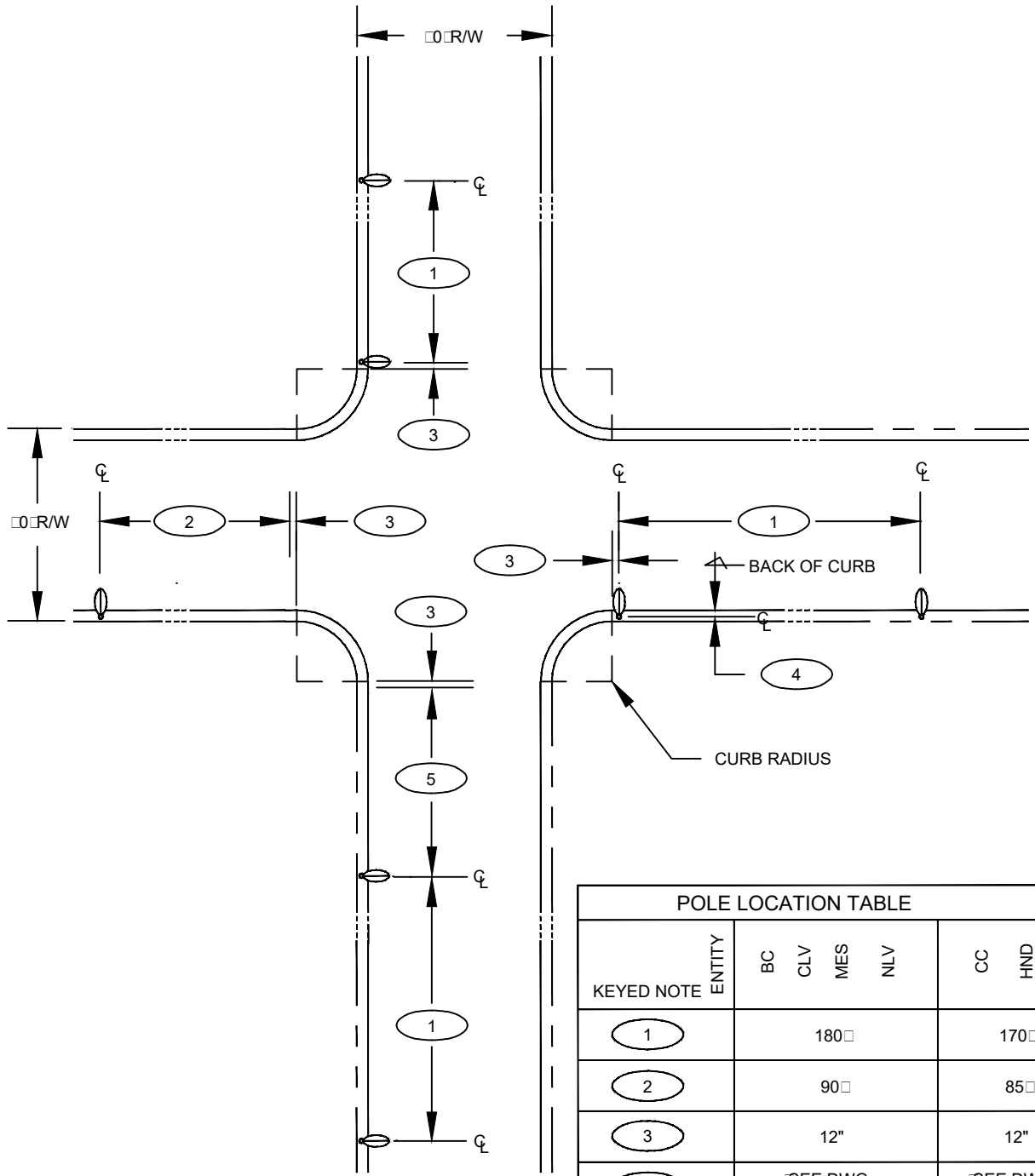


POLE LOCATION TABLE		
KEYED NOTE	ENTITY	CLARK COUNTY
1		170'
2		85'
3		12"
4		SEE DRAWING NO. 320
5		170'
		85'

NOTE

- SEE GENERAL NOTES STANDARD DRAWING NO. 300.
- IF INTERSECTION IS SIGNALIZED, 400 WATT LUMINAIRES SHALL BE INSTALLED ON ALL CORNERS.

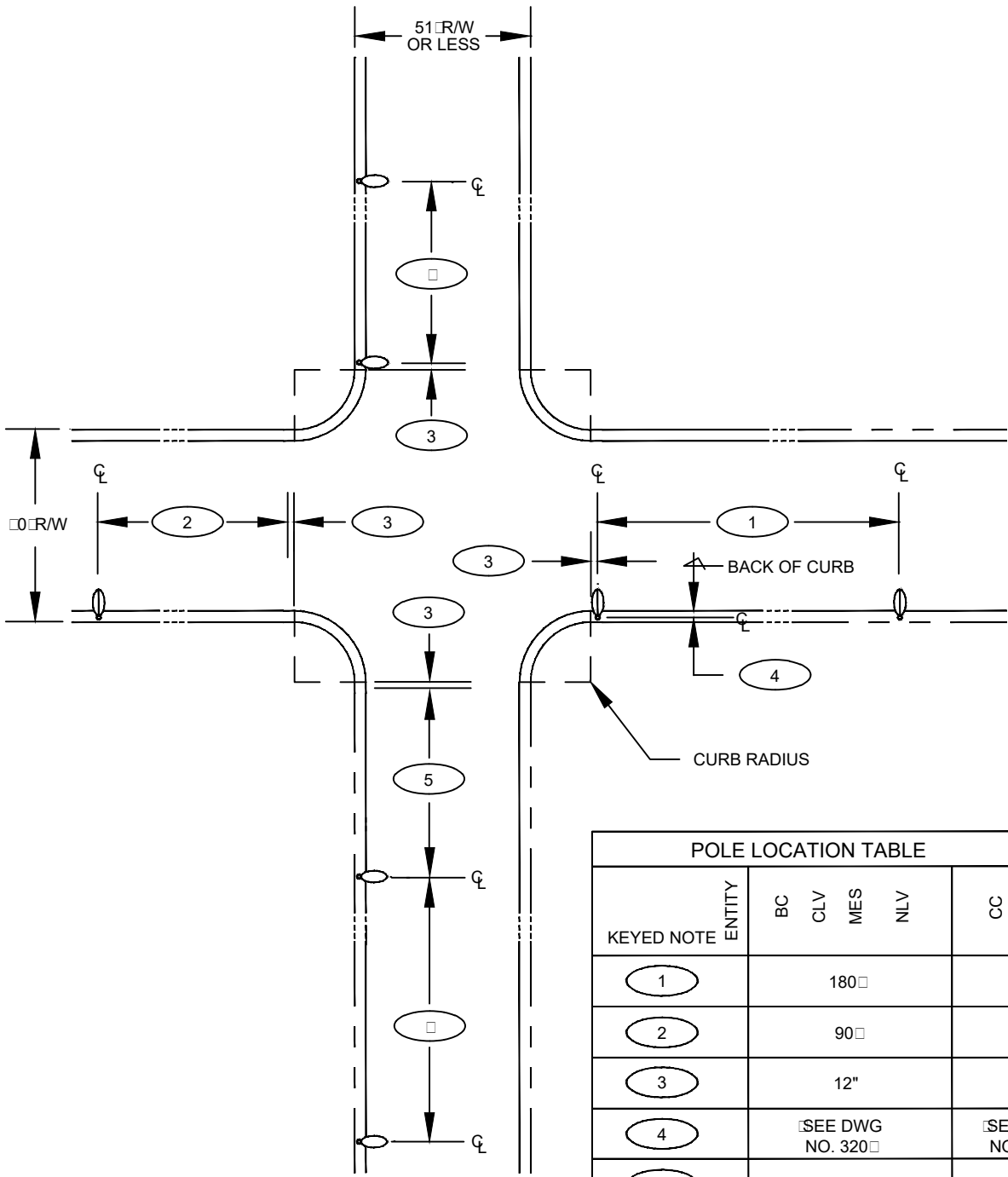
AGENCY APPROVED		C			
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
23	TRAFFIC SIGNALS □ STREETLIGHTING	SUPPLEMENTAL DRAWING			
		STREETLIGHT LOCATIONS AT INTERSECTIONS 80' / 51' OR LESS RIGHT-OF-WAY			
DATE	07-01-13	DWG. NO.	307.S2		



NOTE: SEE STANDARD DRAWING NO. 300 FOR LUMINAIRE TYPE.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	CC HND
1			180			170
2			90			85
3			12"			12"
4		SEE DWG NO. 320		SEE DWG NO. 320		
5			90			85

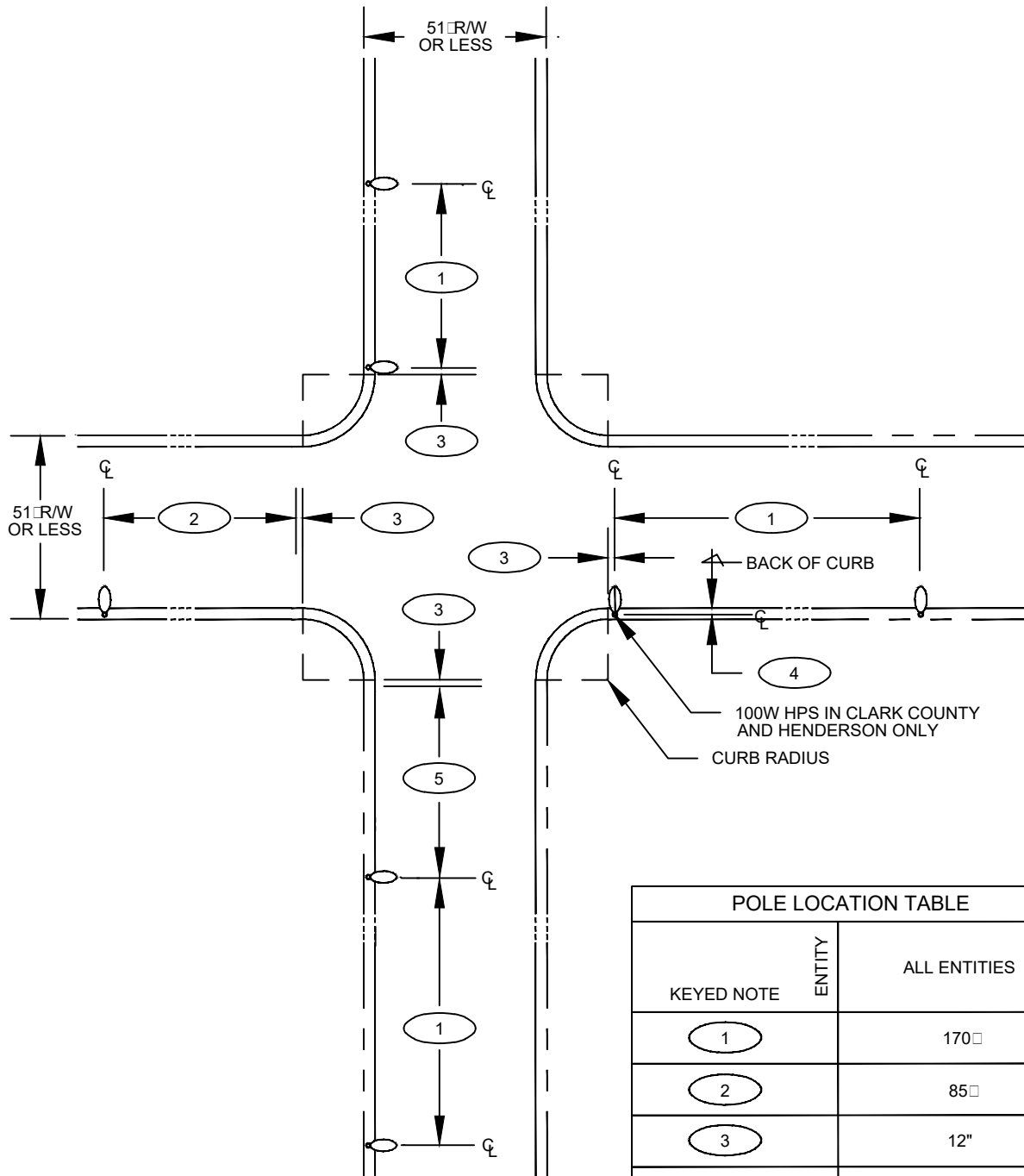
SPECIFICATION REFERENCE		AGENCY APPROVED					
23 TRAFFIC SIGNALS STREETLIGHTING		B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		STREETLIGHT LOCATIONS AT INTERSECTIONS RIGHT-OF-WAY					
		DATE 07-01-13		DWG. NO. 308			



NOTE
SEE STANDARD DRAWING NO. 300 FOR LUMINAIRE TYPE.

POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	CC HND
1			180'			170'
2			90'			85'
3			12"			12"
4		SEE DWG NO. 320			SEE DWG NO. 320	
5			85'			85'
			170'			170'

SPECIFICATION REFERENCE		AGENCY APPROVED					
23 TRAFFIC SIGNALS STREETLIGHTING		B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		STREETLIGHT LOCATIONS AT INTERSECTIONS 51' OR LESS RIGHT-OF-WAY					
		DATE 07-01-13		DWG. NO. 309			



NOTE
SEE GENERAL NOTES STANDARD DRAWING NO. 300.

POLE LOCATION TABLE	
KEYED NOTE	ENTITY
1	ALL ENTITIES
2	170'
3	85'
4	12"
5	[SEE DRAWING NO. 320]
	85'

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

B

C

H

L

M

N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

23

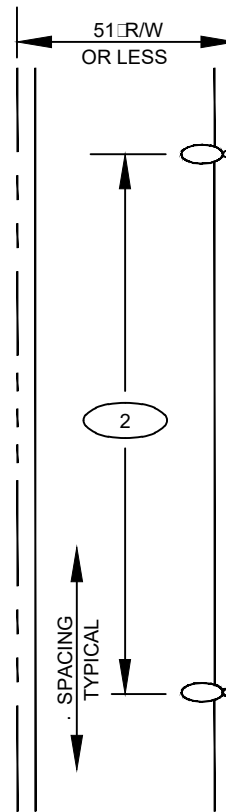
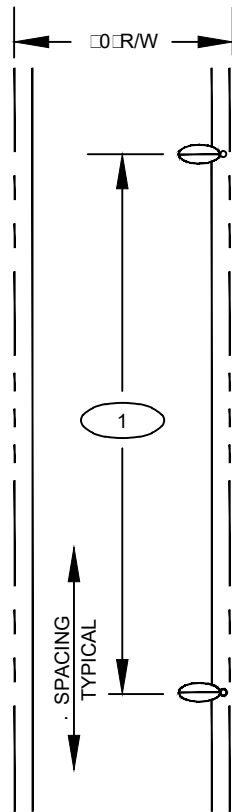
TRAFFIC SIGNALS STREETLIGHTING

STREETLIGHT LOCATIONS AT INTERSECTIONS
51 FT. OR LESS/51 FT. OR LESS
RIGHT-OF-WAY

DATE 2-08-07

DWG. NO.

310



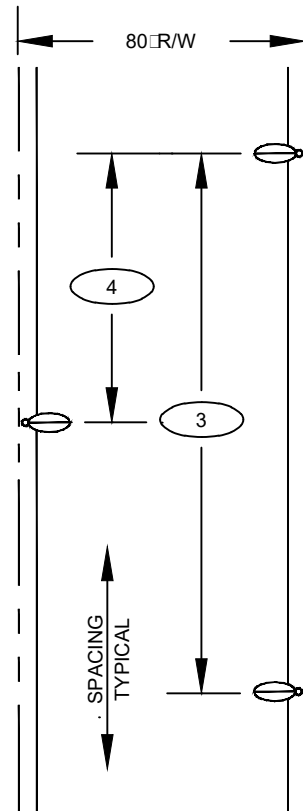
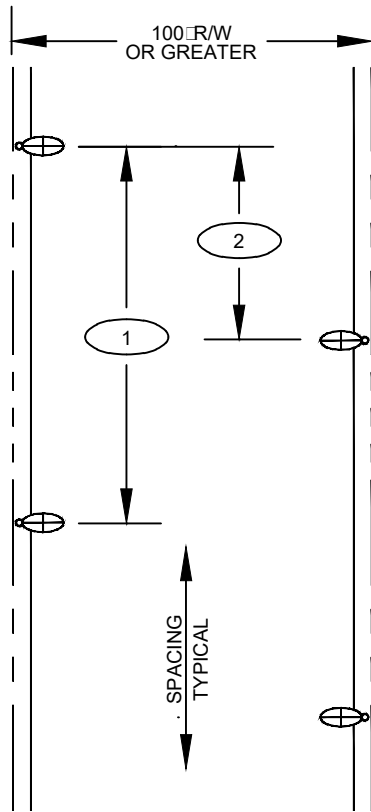
POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	CC HND
1				180		170
2				170		170

NOTES

1. SEE STANDARD DRAWING NO. 300 FOR LUMINAIRE TYPE.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
23		B C H L M N					
TRAFFIC SIGNALS STREETLIGHTING		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		STREETLIGHT STANDARDS MAXIMUM SPACING 0 FT. OR LESS RIGHT-OF-WAY					
		DATE 07-01-13		DWG. NO.		311.1	



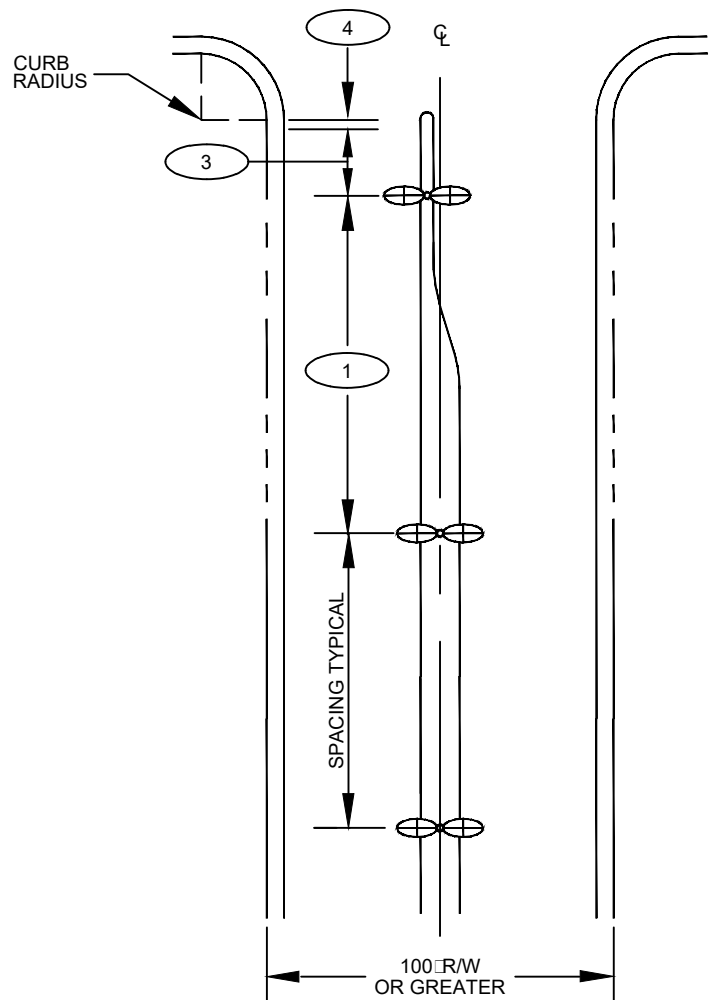
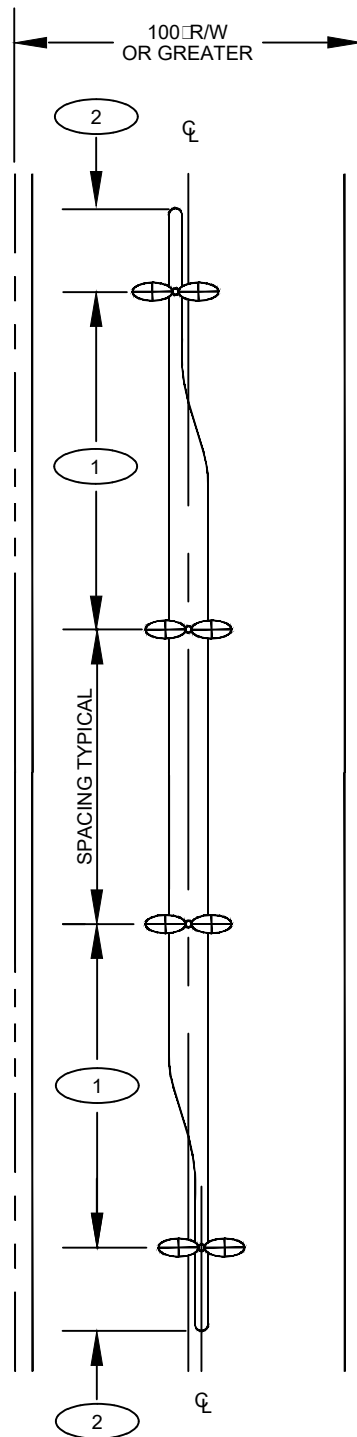
POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	HND
1		100				140
2		80				70
3		170				140
4		85				70

NOTES

- SEE STANDARD DRAWING NO. 300 FOR LUMINAIRE TYPE.
- AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
23	TRAFFIC SIGNALS & STREETLIGHTING	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
		STREETLIGHT STANDARDS MAXIMUM SPACING 80 FT. OR GREATER RIGHT-OF-WAY											
		DATE	07-01-13	DWG. NO.	311	PAGE NO.							



SPACING FOR SIGNALIZED INTERSECTIONS

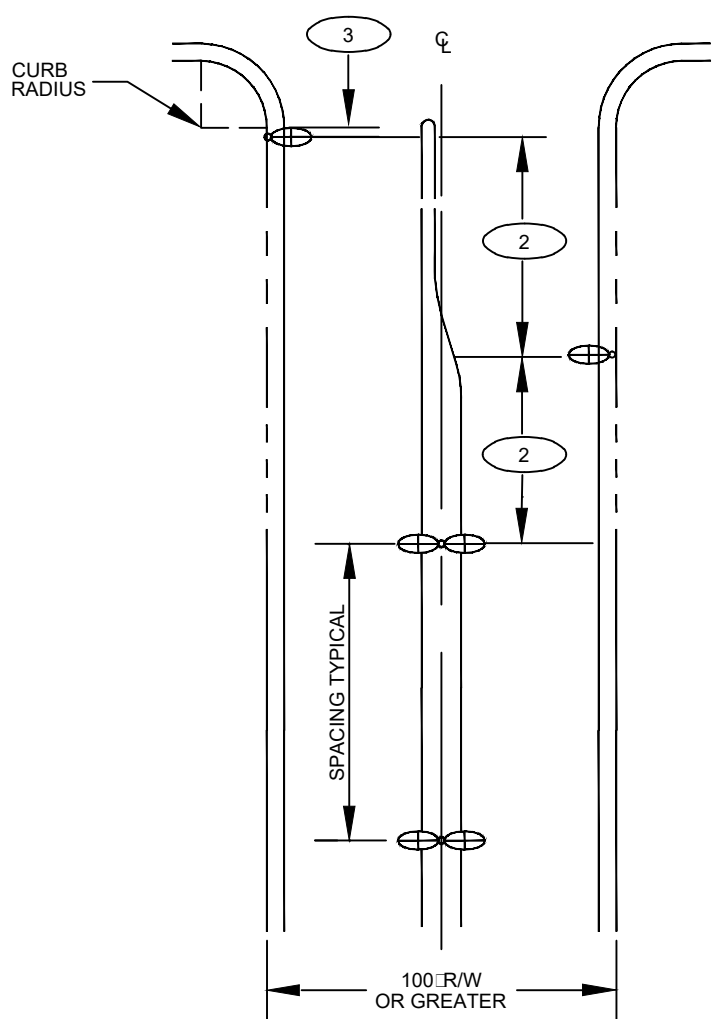
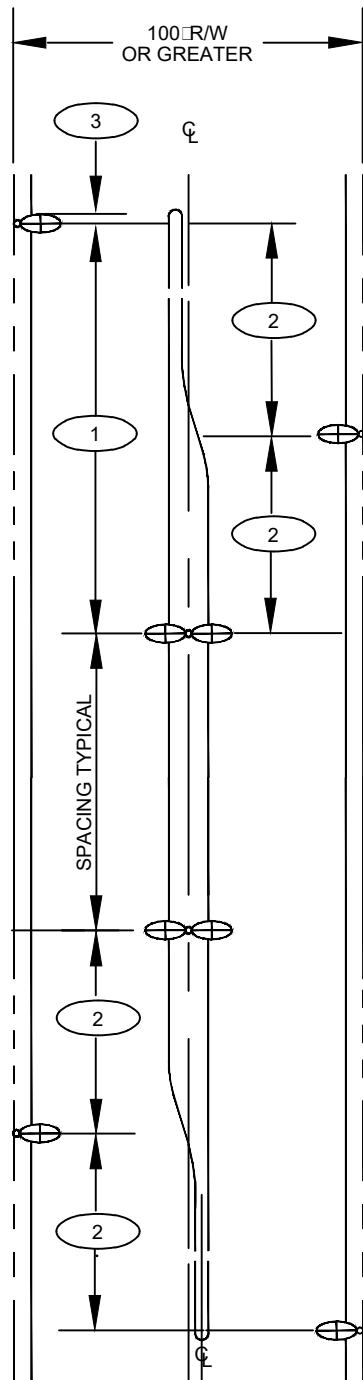
POLE LOCATION TABLE						
KEYED NOTE	ENTITY	BC	CLV	MES	NLV	CC
1			10			120
2			10			10 MIN.
3			80			120
4			12"			12"

NOTES

- SEE STANDARD DRAWING NO. 300 FOR LUMINAIRE TYPE.
- AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.

DISTANCE LISTED INDICATES MAXIMUM SPACING. LIGHTING STANDARDS SHALL BE MAINTAINED AFTER LOCATING THE END OF ISLAND POLES.

SPECIFICATION REFERENCE		AGENCY APPROVED					
23	TRAFFIC SIGNALS & STREETLIGHTING	B	C	L	M	N	
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		SUPPLEMENTAL DRAWING					
		STREETLIGHT LOCATIONS ON TRAFFIC ISLANDS 100' OR GREATER RIGHT-OF-WAY					
		DATE 07-01-13	DWG. NO.	312.S1	PAGE NO.		



SPACING FOR SIGNALIZED INTERSECTIONS

POLE LOCATION TABLE		
KEYED NOTE	ENTITY	HND
1		140'
2		70'
3		12"

NOTES

1. SEE STANDARD DRAWING NO. 300 FOR LUMINAIRE TYPE.
2. AN APPROVED LIGHTING STUDY PER NOTE 2, STANDARD DRAWING NO. 300, IS REQUIRED FOR RIGHT-OF-WAY GREATER THAN 100 FEET.
3. STREET LIGHTING IN THE MEDIAN IS ALLOWED FOR MEDIAN WIDTHS OF 10 FEET OR GREATER.

□ DISTANCE LISTED INDICATES MAXIMUM SPACING. LIGHTING STANDARDS SHALL BE EVIDENT AFTER LOCATING THE END OF ISLAND POLES.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED				UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
23	TRAFFIC SIGNALS □ STREETLIGHTING	H				SUPPLEMENTAL DRAWING			
		STREETLIGHT LOCATIONS ON TRAFFIC ISLANDS 100' OR GREATER RIGHT-OF-WAY							
DATE		DWG. NO.		312.S2		PAGE NO.			

1. ALL STREETLIGHT STANDARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE STANDARD SPECIFICATIONS AND AS INDICATED ON THESE DRAWINGS.

2. ALL COMPONENTS OF THE STREETLIGHT STANDARD INCLUDING THE POLE, ARM, HANDHOLE COVER, BASE COVER AND THE POLE CAP SHALL BE FERROUS METAL AND HOT-DIP GALVANIZED AFTER CONSTRUCTION IN ACCORDANCE WITH ASTM A123 ALUMINUM OR ALUMINUM ALLOY IS NOT ACCEPTABLE. FLAWS IN THE APPEARANCE OF THESE GALVANIZED COMPONENTS (E.G. "TIGER-STRIPED," "SILVER-STRIPED") SHALL BE CAUSE FOR REJECTION. NON-METALLIC TYPE BASE COVERS MAY BE ACCEPTABLE AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. CONCRETE POLES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

3. ALL FASTENING HARDWARE SHALL BE NON-CORROSIVE, CADMIUM-PLATED, OR EQUAL, APPROVED BY THE ENGINEER. FASTENERS SHALL BE OF THE SIZE AND CONFIGURATION NOTED ON THE DRAWINGS.

4. CONCRETE POLE FOUNDATIONS SHOULD BE POURED AGAINST UNDISTURBED, NATURAL SOIL OR IF FORMING MATERIAL IS USED IT SHALL BE STRIPPED AWAY FROM THE FOUNDATION AT LEAST ONE FOOT BELOW FINISHED GRADE.

5. POLES SHALL BE INSTALLED ON CONCRETE FOUNDATIONS WITH ANCHOR BOLTS. EACH BOLT SHALL BE INSTALLED WITH TWO HEX NUTS AND TWO FLAT WASHERS. EXCEPT FOR "H" AND "L" FOUNDATIONS, THE ANCHOR BOLTS SHALL BE 1" X 3/4" X 4" FOR ELEVEN GAGE POLES AND 1 1/8" X 40" X 4" FOR SEVEN GAGE POLES. THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED. THE POLE SHALL BE PLUMBED PRIOR TO PLACING THE GROUT OR CONCRETE CAP. USE OF GROUT OR CONCRETE FOR CAP SHALL BE DESIGNATED BY ENTITY ENGINEER. SHIMS OR WEDGES OF ANY KIND ARE NOT ACCEPTABLE TO PLUMB THE POLE AFTER THE CAP HAS BEEN PLACED.

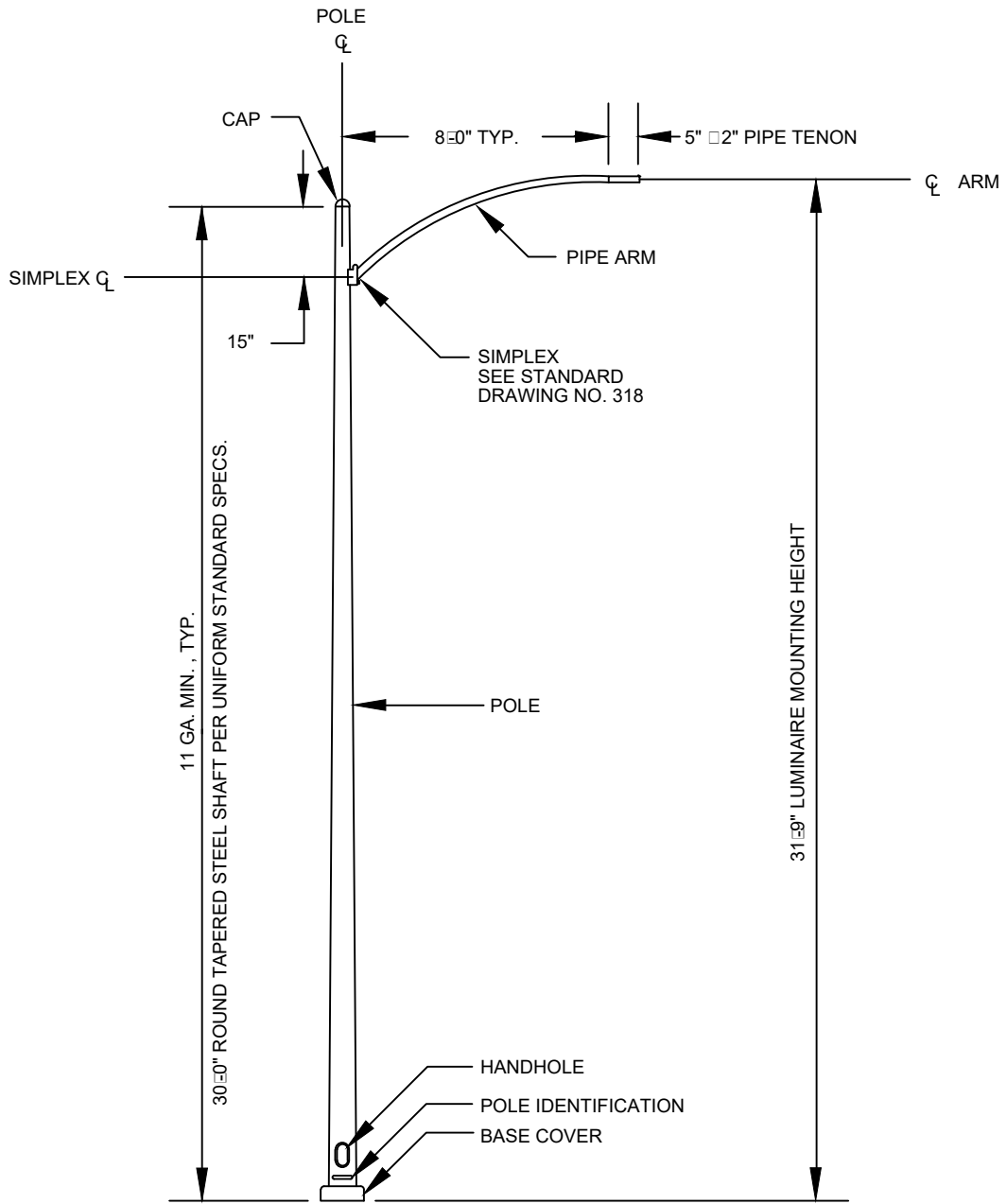
6. ALL UNDERGROUND CONDUIT INSTALLED SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.

7. WHERE SIGNALS AND STANDARDS ARE INSTALLED UNDER OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRICAL SAFETY CODE SECTION 234 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
STREETLIGHT STANDARD GENERAL NOTES							
DATE 7-8-04		DWG. NO. 313					

SPECIFICATION REFERENCE	
23	TRAFFIC SIGNALS & STREETLIGHTING

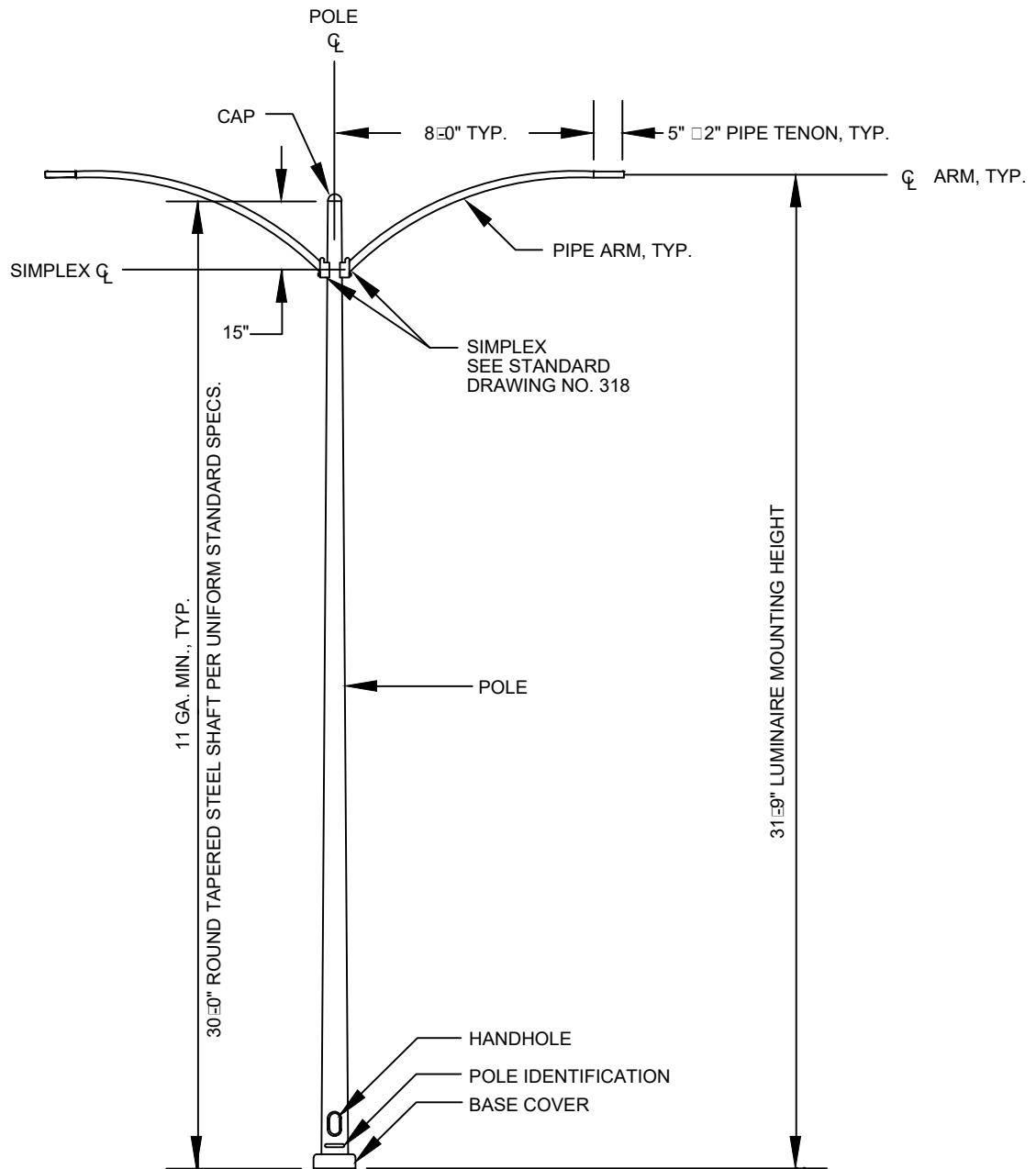


NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 313.
2. SEE STANDARD DRAWING NO. 319 FOR DETAIL OF POLE BASE.
3. SEE STANDARD DRAWING NO. 318 FOR DETAIL OF POLE CAP.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
50	STEEL STRUCTURES	STREETLIGHT STANDARD WITH 2 INCH PIPE ARM					
23	TRAFFIC SIGNALS & STREETLIGHTING						
715	GALVANIZING						
DATE 12-12-9		DWG. NO.		314			

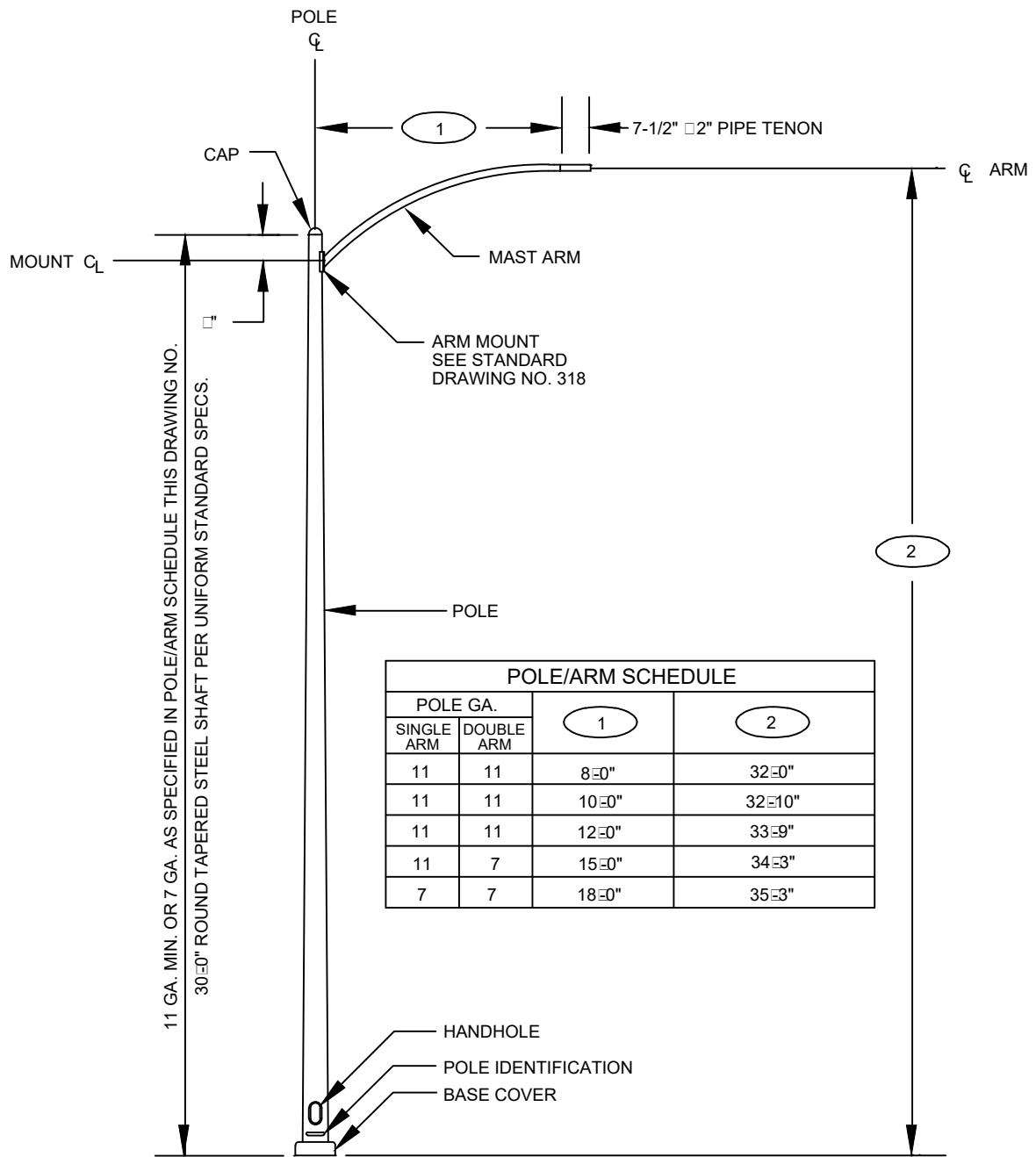


NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 313.
2. SEE STANDARD DRAWING NO. 319 FOR DETAIL OF POLE BASE.
3. SEE STANDARD DRAWING NO. 318 FOR DETAIL OF POLE CAP.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
50	STEEL STRUCTURES	STREETLIGHT STANDARD WITH DOUBLE 2 INCH PIPE ARM						
23	TRAFFIC SIGNALS & STREETLIGHTING							
715	GALVANIZING							
		DATE 12-12-9	DWG. NO. 315					



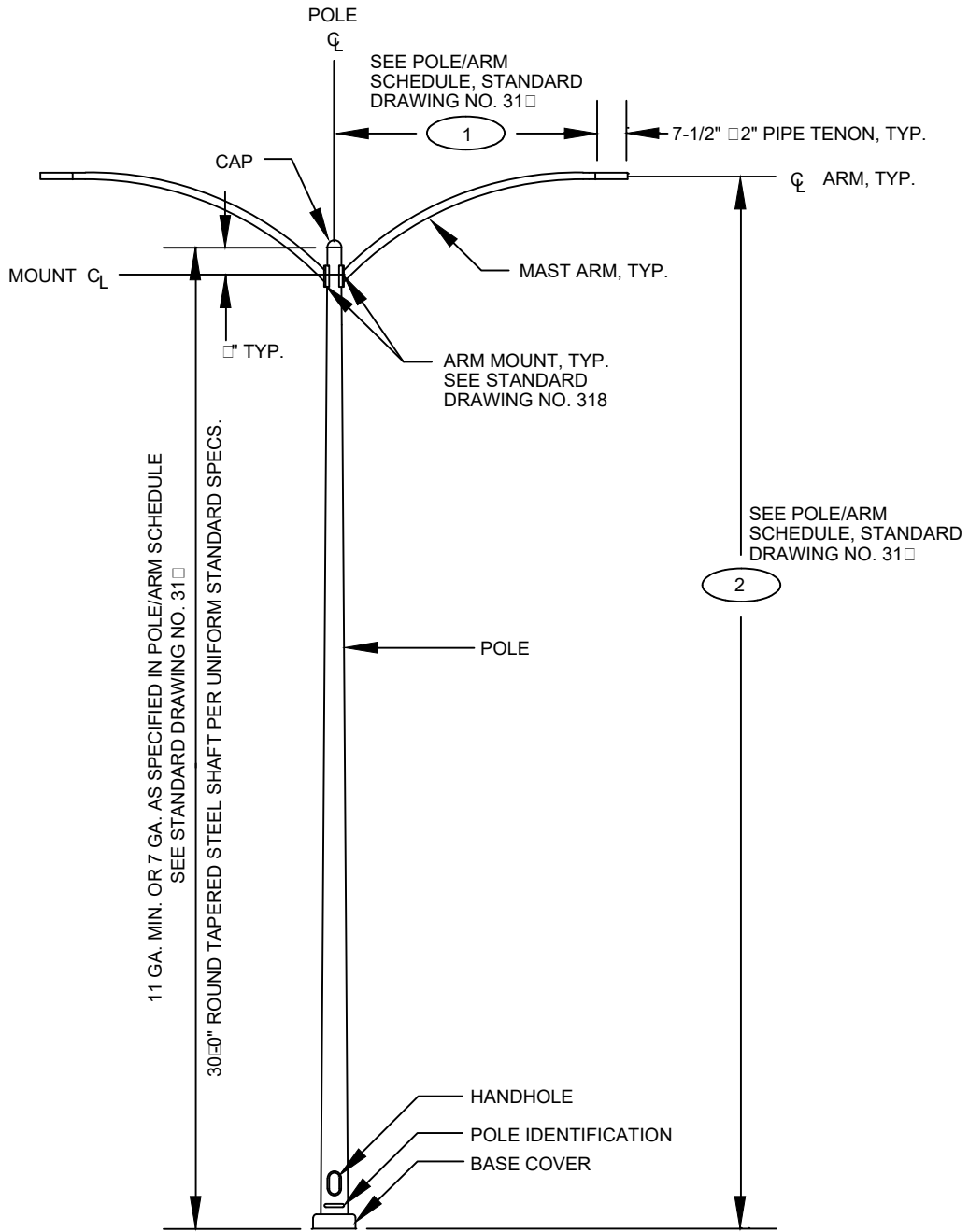
POLE/ARM SCHEDULE			
POLE GA.		1	2
SINGLE ARM	DOUBLE ARM		
11	11	8±0"	32±0"
11	11	10±0"	32±10"
11	11	12±0"	33±9"
11	7	15±0"	34±3"
7	7	18±0"	35±3"

NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 313.
2. SEE STANDARD DRAWING NO. 319 FOR DETAIL OF POLE BASE.
3. SEE STANDARD DRAWING NO. 318 FOR DETAIL OF POLE CAP.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
50	STEEL STRUCTURES	STREETLIGHT STANDARD WITH TAPERED MAST ARM					
23	TRAFFIC SIGNALS & STREETLIGHTING						
715	GALVANIZING						
DATE 12-12-9		DWG. NO.		31			

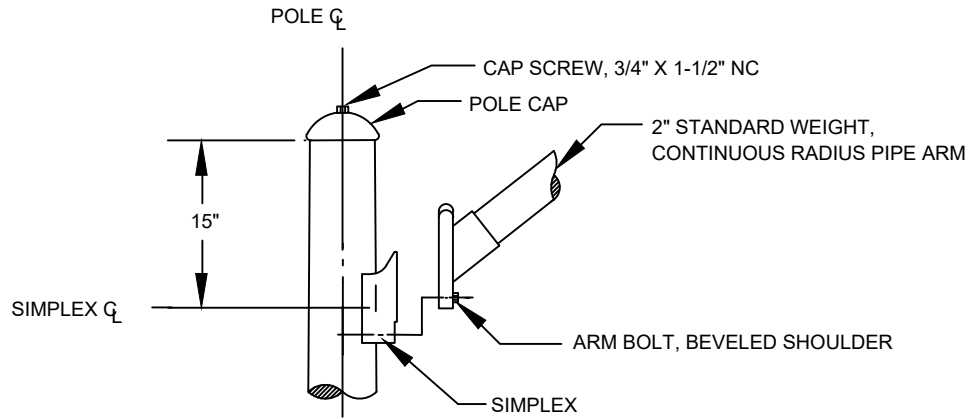


NOTES

1. SEE GENERAL NOTES STANDARD DRAWING NO. 313.
2. SEE STANDARD DRAWING NO. 319 FOR DETAIL OF POLE BASE.
3. SEE STANDARD DRAWING NO. 318 FOR DETAIL OF POLE CAP.

Effective 10/08/2020 to 12/09/2020

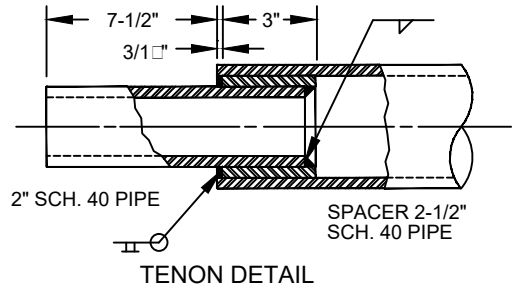
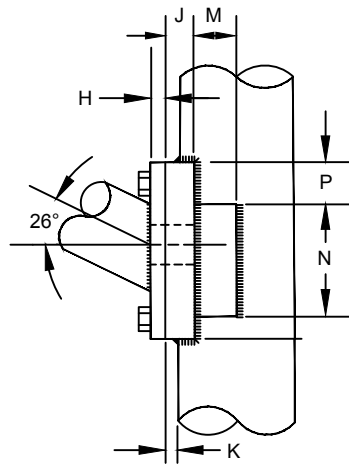
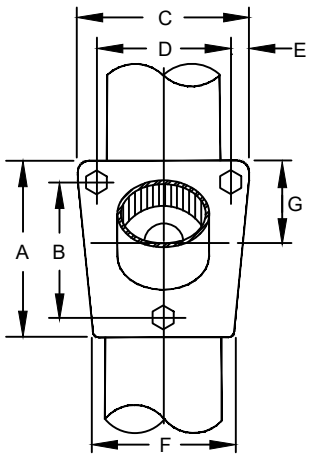
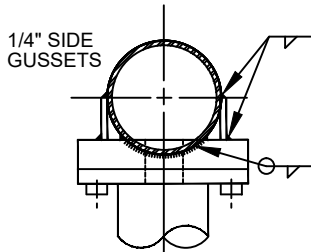
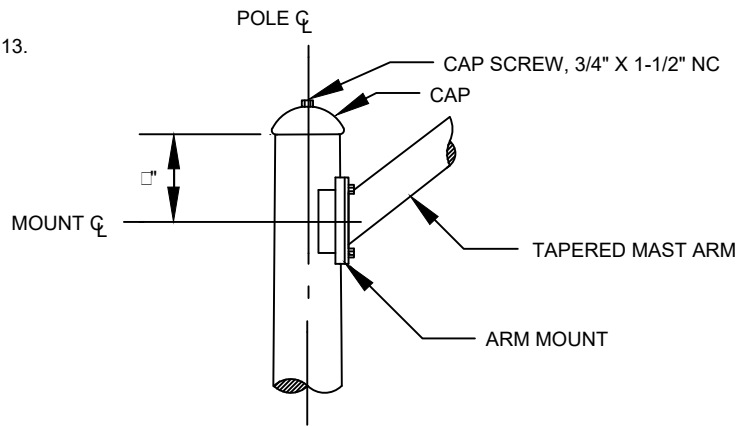
SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
50	STEEL STRUCTURES	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
23	TRAFFIC SIGNALS STREETLIGHTING	STREETLIGHT STANDARD WITH DOUBLE TAPERED MAST ARM						
715	GALVANIZING							
		DATE 12-12-9		DWG. NO.		317		



PIPE ARM

NOTE

SEE GENERAL NOTES
STANDARD DRAWING NO. 313.



MAST ARM AND DETAILS

MAST ARM	A	B	C	D	E	F	G
8-15 INCL.	7-1/2"	5-3/4"	3/8"	4-5/8"	7/8"	5"	3-3/8"
15-18 INCL.	9"	7"	8"	"	1"	"	4"

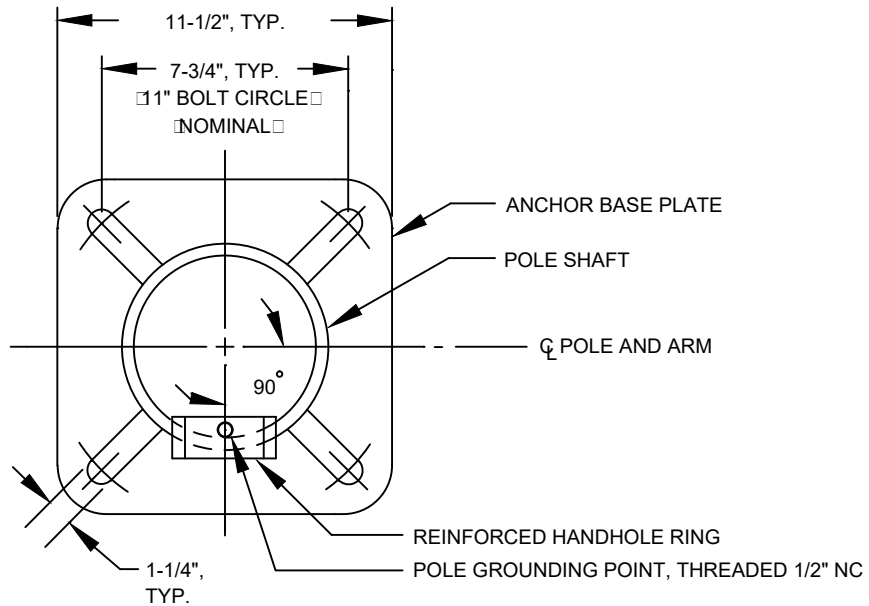
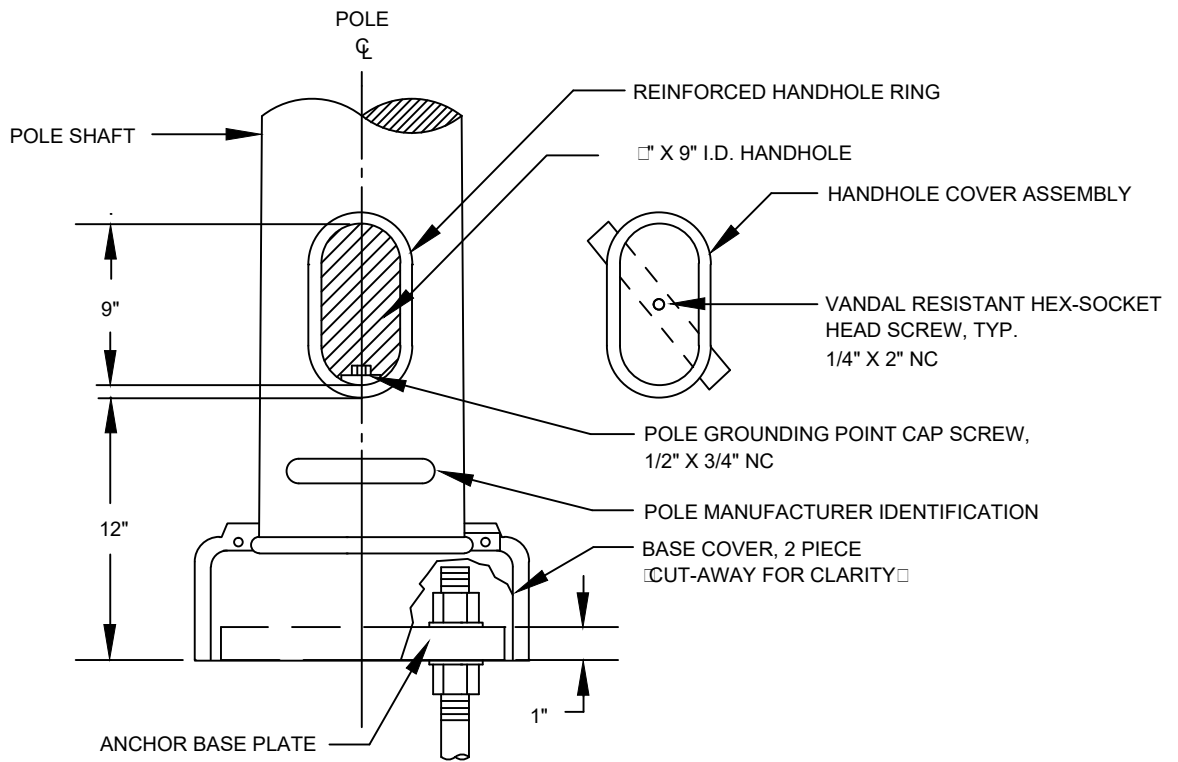
MAST ARM	H	J	K	L	M	N	N
8-15 INCL.	1/2"	1"	5/1"	5/8"-11 1/2"	1-1/2"	5"	1-5/8"
15-18 INCL.	3/4"	1"	5/1"	3/4"-10 1-3/4"	2"	5"	1-3/4"

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
50	STEEL STRUCTURES
23	TRAFFIC SIGNALS STREETLIGHTING
715	GALVANIZING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
POLE TOP AND ARM MOUNTING DETAILS	
DATE 12-12-9	DWG. NO. 318

Effective 10/08/2020 to 12/09/2020



NOTES

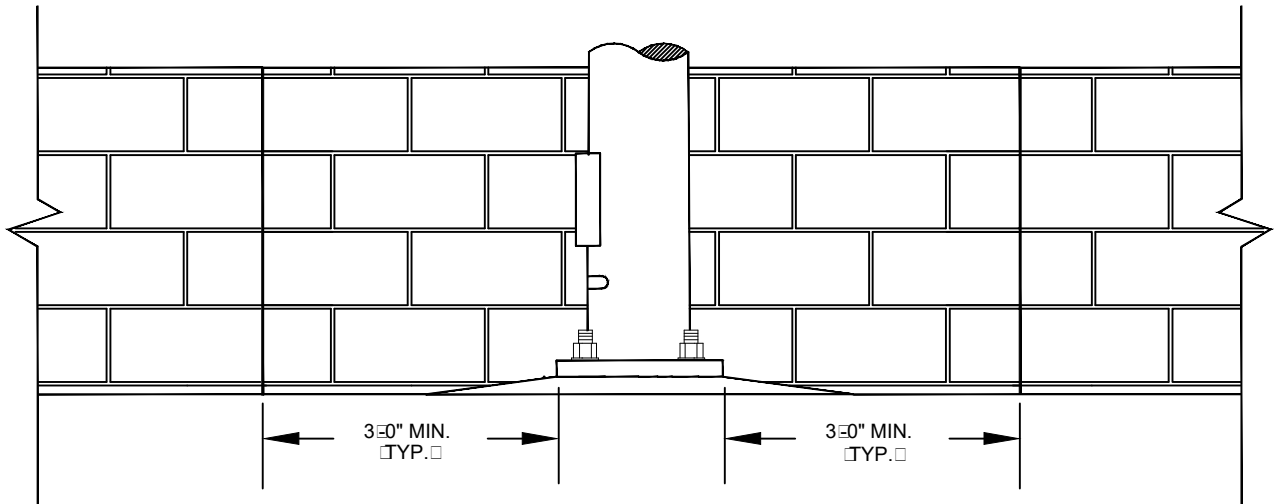
1. SEE GENERAL NOTES STANDARD DRAWING NO. 313
2. HANDHOLE SHALL FACE AWAY FROM ONCOMING TRAFFIC.
3. HANDHOLE SIZE FOR CC AND CLV FOR STREET LIGHT POLES SHALL BE 4" X 9" I.D.



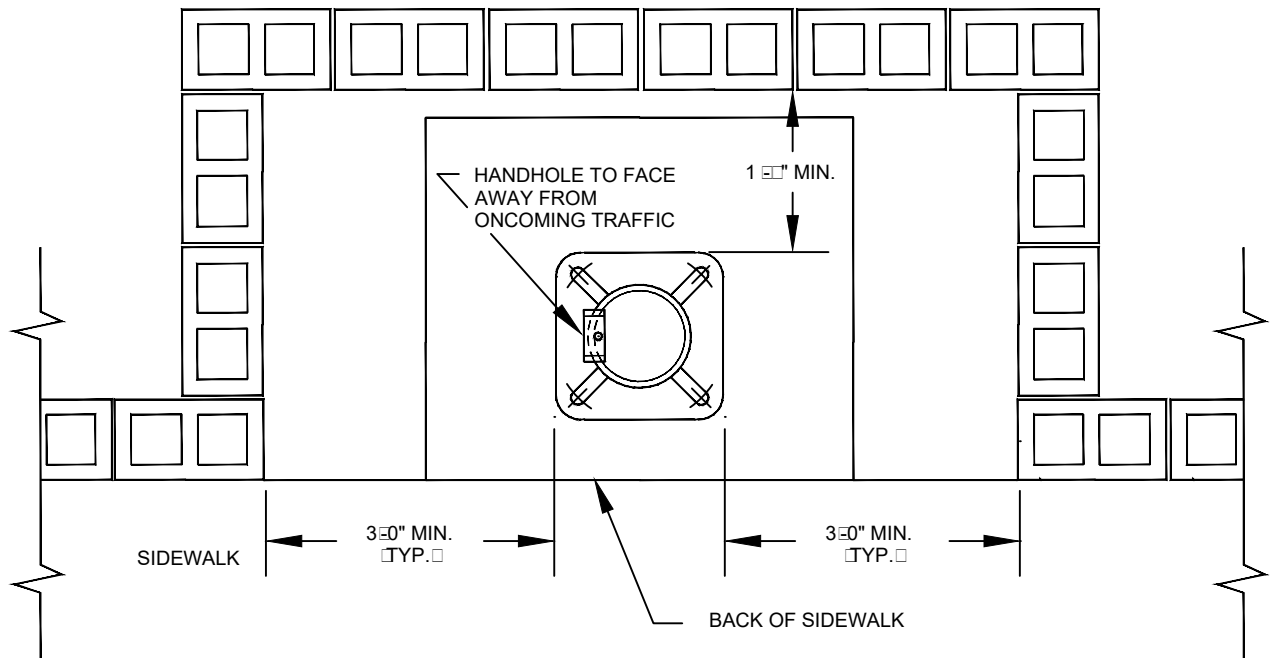
AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
LOWER POLE DETAILS FOR PIPE AND MAST ARM POLES							
DATE 07-01-17		DWG. NO.		319			

SPECIFICATION REFERENCE	
50	STEEL STRUCTURES
23	TRAFFIC SIGNALS & STREETLIGHTING
715	GALVANIZING

Effective 10/08/2020 to 12/09/2020



ELEVATION



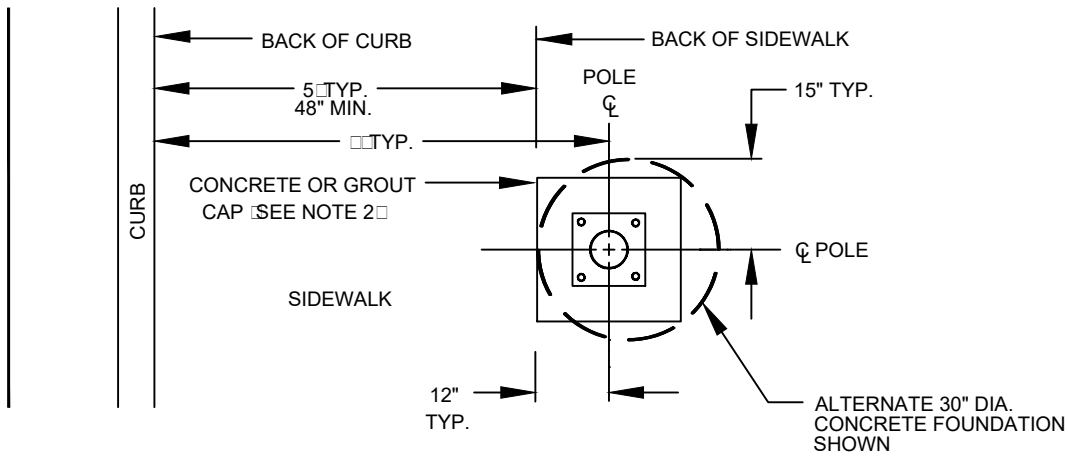
PLAN

NOTE

POLE BASE COVERS SHALL BE FURNISHED AND INSTALLED FOR ALL POLES PER THE STANDARD SPECIFICATIONS AND DRAWINGS.

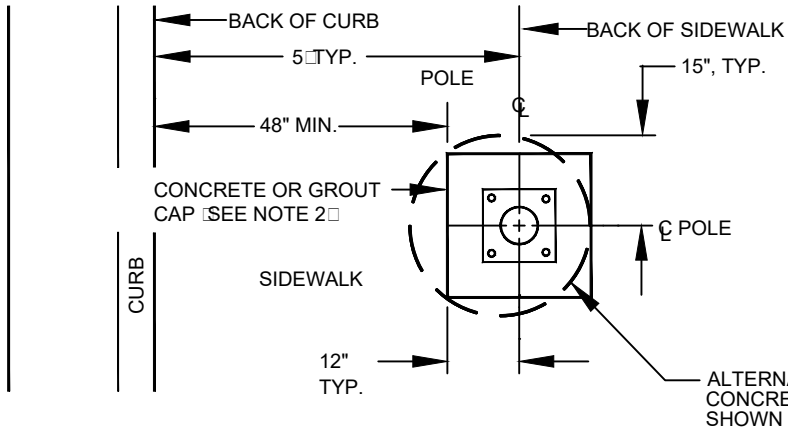
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
□23	TRAFFIC SIGNALS □ STREETLIGHTING	LIGHTING STANDARD SETBACK FROM BLOCK WALL						
		DATE 5-13-99	DWG. NO.	320.1				



BEHIND CURBSIDE SIDEWALK

EASEMENT MAY BE REQUIRED
SEE USD 320.1

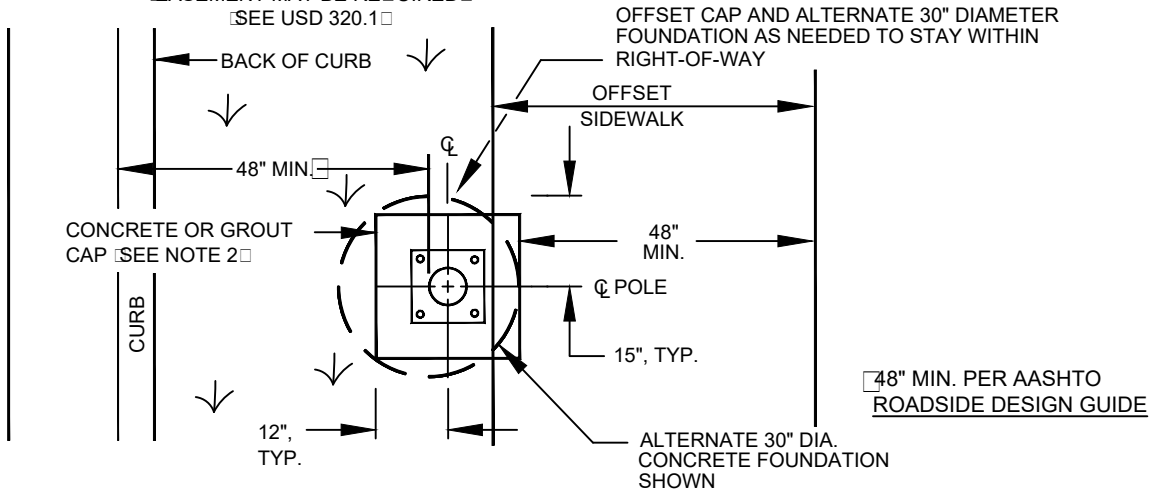


NOTES

1. FOUNDATIONS SHALL BE LOCATED OUTSIDE OF THE SIDEWALK WHENEVER FEASIBLE. A CLEARANCE OF 48" SHALL BE MAINTAINED ON PEDESTRIAN ACCESS ROUTE.
2. FOUNDATION CAP SHALL BE CONCRETE OR GROUT AS DESIGNATED BY THE ENTITY ENGINEER.
3. REFER TO STANDARD DRAWING NO. 321 FOR FOUNDATION DETAIL.

BACK PORTION OF CURBSIDE SIDEWALK NOT FOR NEW CONSTRUCTION

EASEMENT MAY BE REQUIRED
SEE USD 320.1

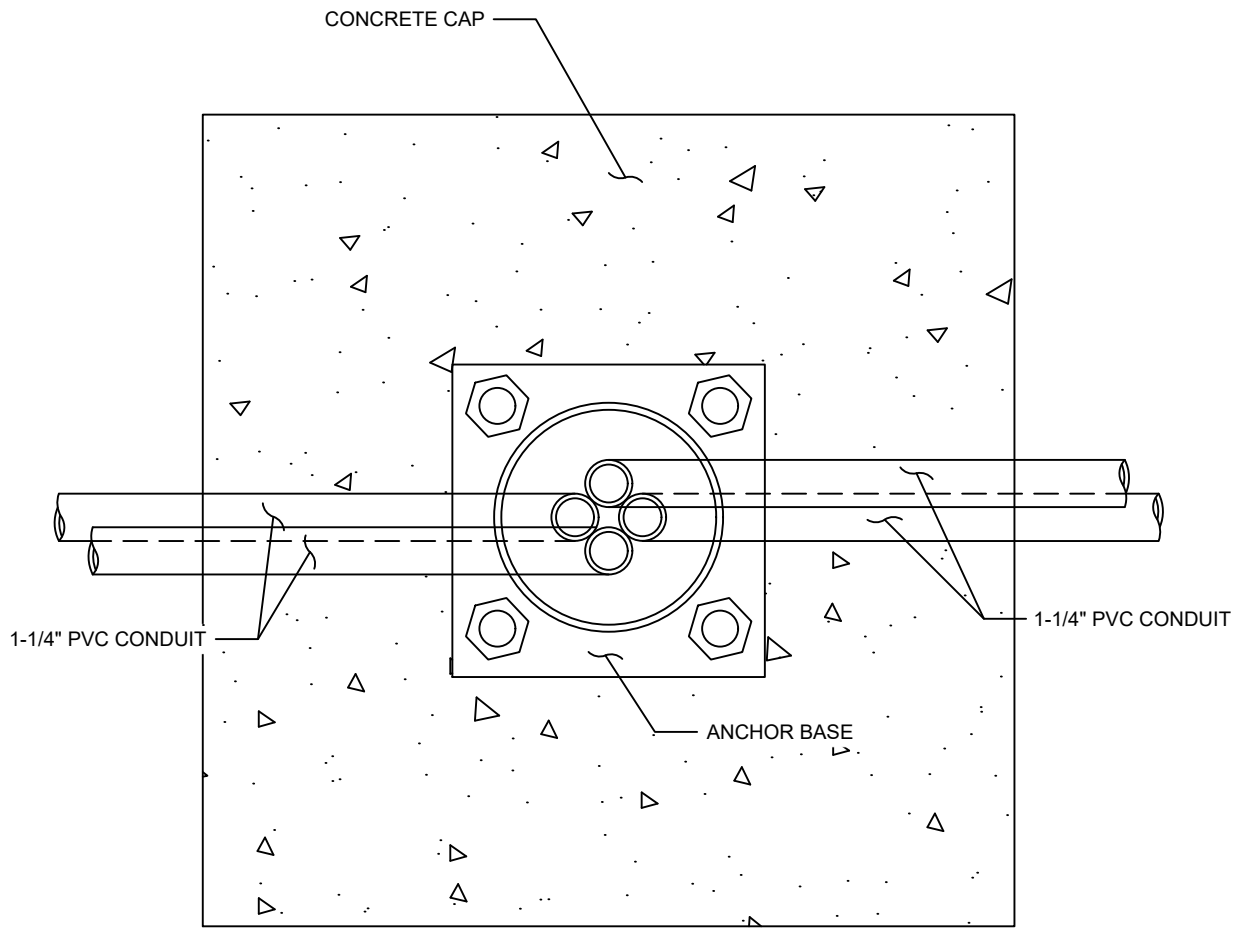


OPEN AREA OR BETWEEN CURB AND SIDEWALK

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
501	PORTLAND CEMENT CONCRETE
23	TRAFFIC SIGNALS STREETLIGHTING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
LIGHTING STANDARD SETBACK	
DATE 03-12-20	DWG. NO. 320



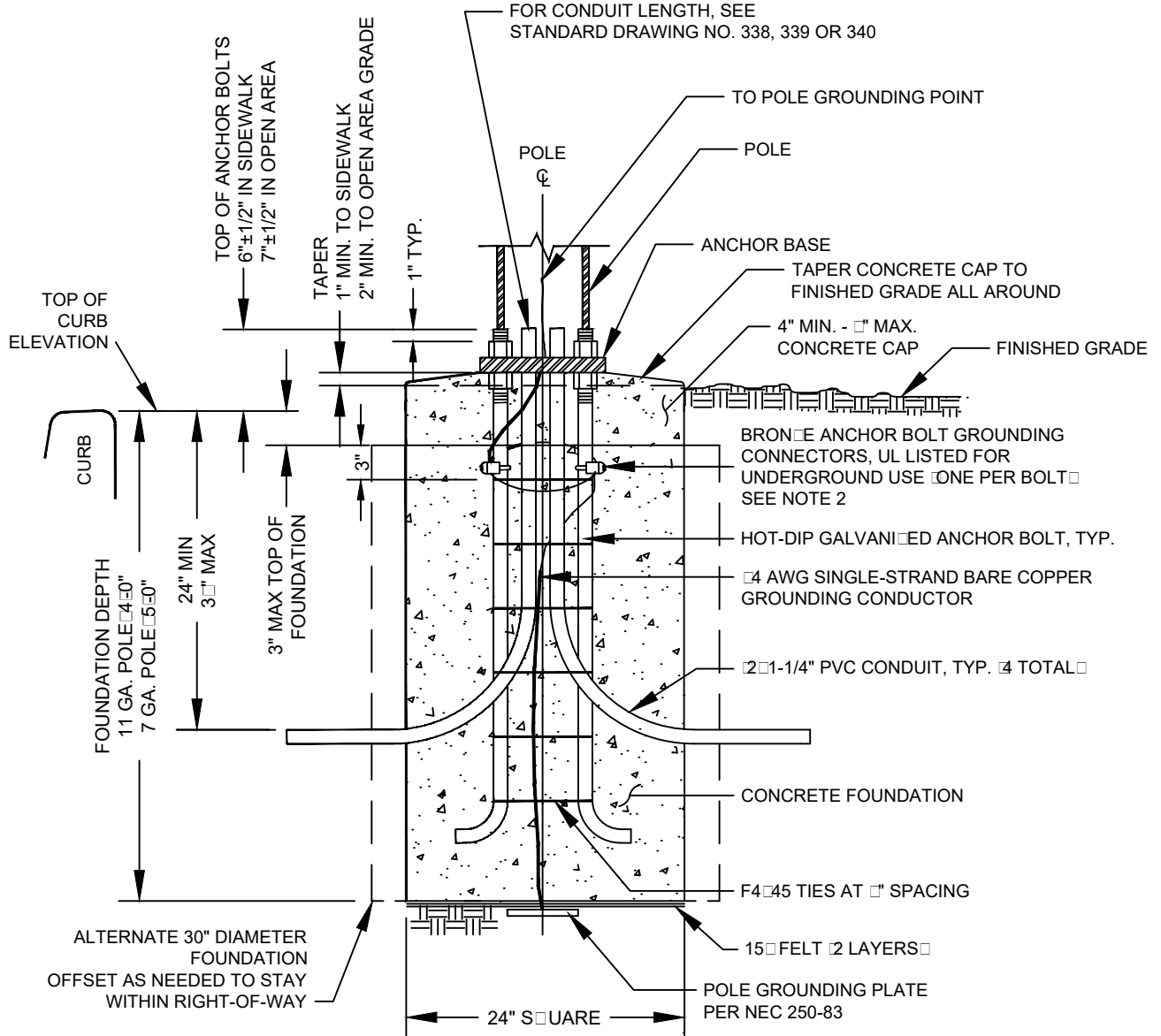
PLAN

NOTES

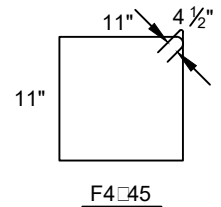
1. SEE GENERAL NOTES STANDARD DRAWING NO. 313.
2. CONTINUOUS BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE POLE GROUNDING PLATE.
3. FOUNDATION CAP SHALL BE CONCRETE OR GROUT AS DESIGNATED BY THE ENTITY ENGINEER.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N	R
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
501	PORTLAND CEMENT CONCRETE	LIGHTING STANDARD FOUNDATION							
<input type="checkbox"/> 23	TRAFFIC SIGNALS <input type="checkbox"/> STREETLIGHTING								
		DATE 01-09-20	DWG. NO. 321				SHEET 1 OF 2		



SECTION



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N R

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

501 PORTLAND CEMENT CONCRETE
#23 TRAFFIC SIGNALS & STREETLIGHTING

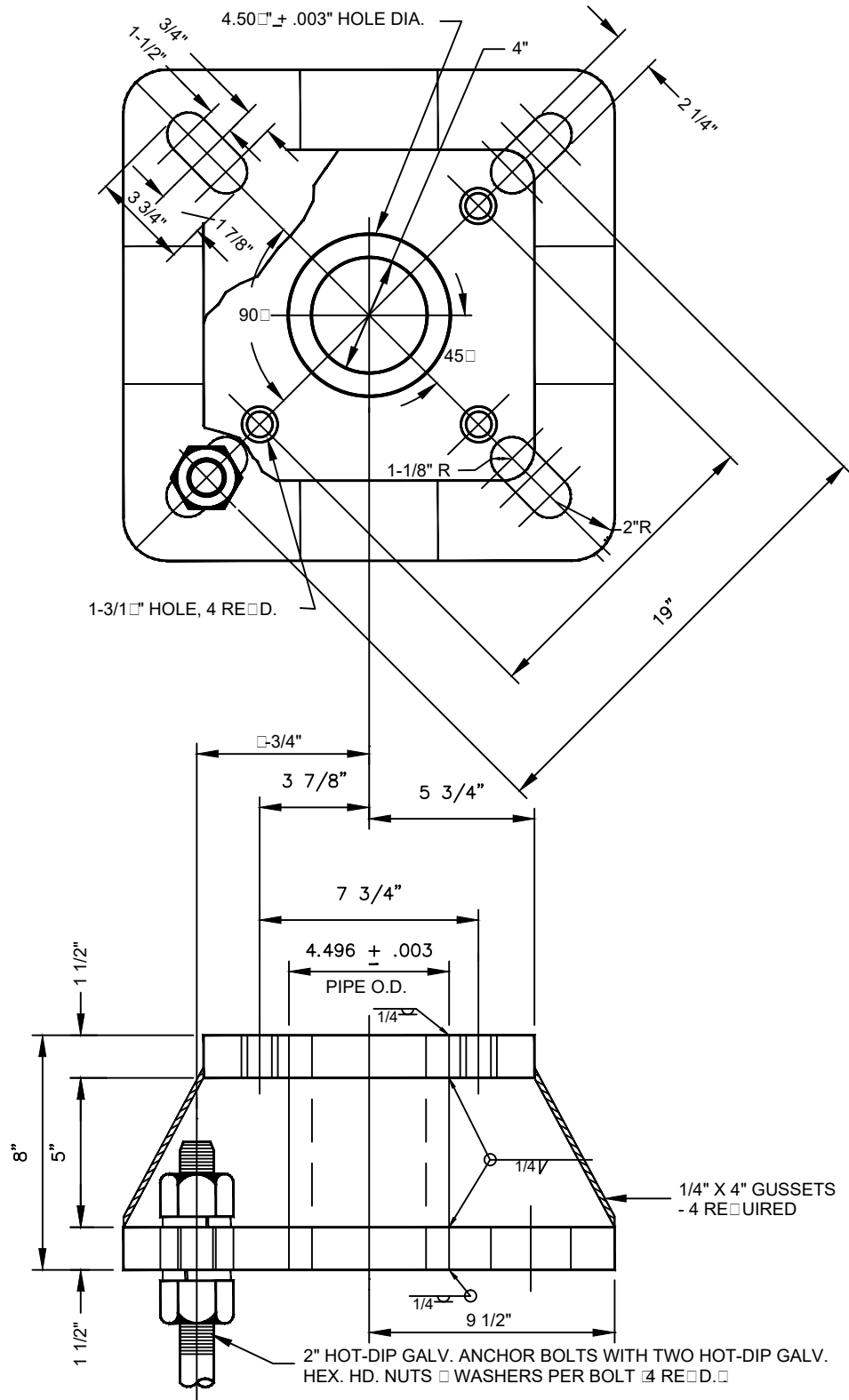
LIGHTING STANDARD
FOUNDATION

DATE 01-09-20

DWG. NO. 321

SHEET 2 OF 2

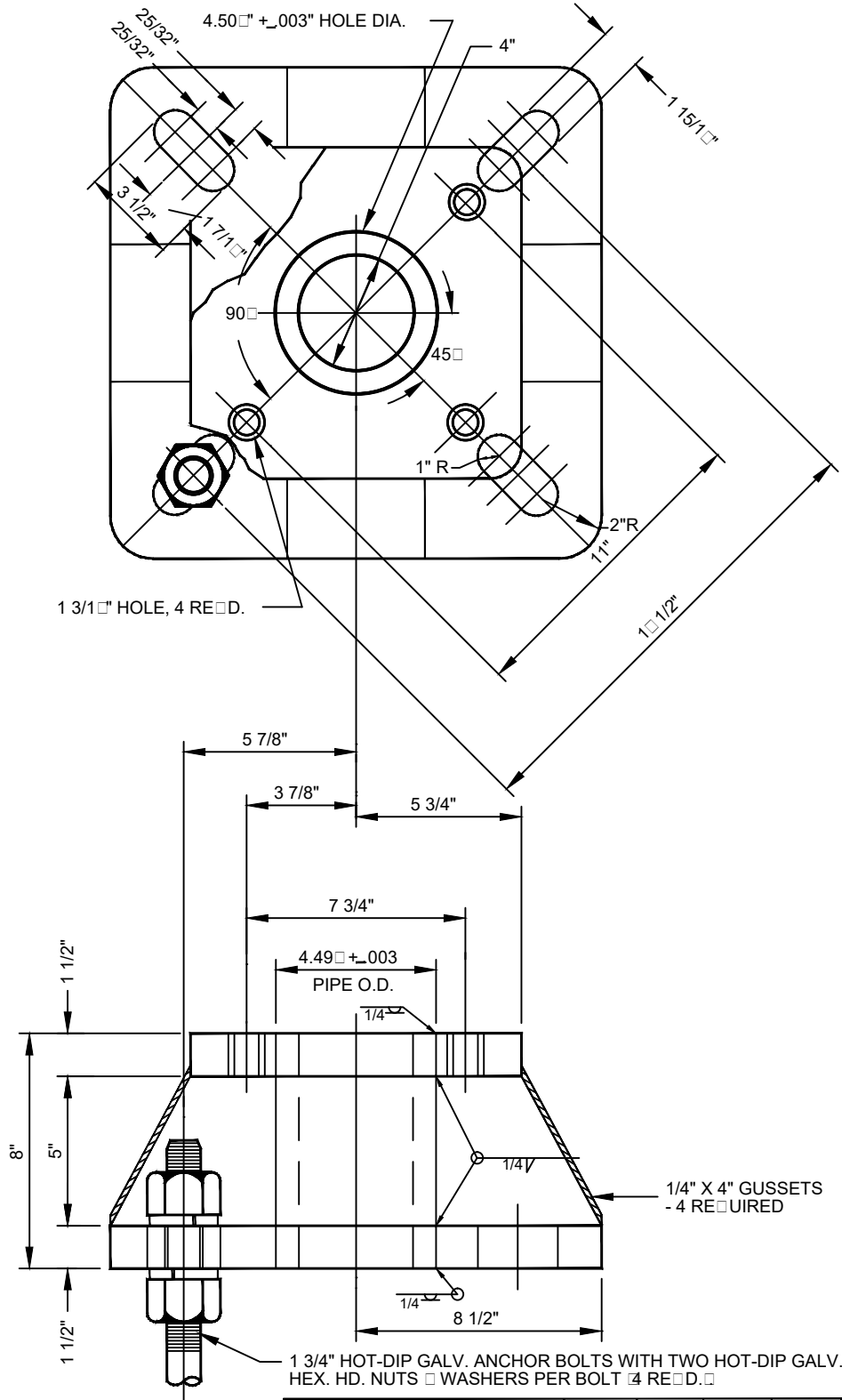
Effective 10/08/2020 to 12/09/2020



AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
BASE ADAPTOR PLATE FOR 19 INCH BOLT CIRCLE FOUNDATION						
DATE 12-12-9	DWG. NO.	322.1				

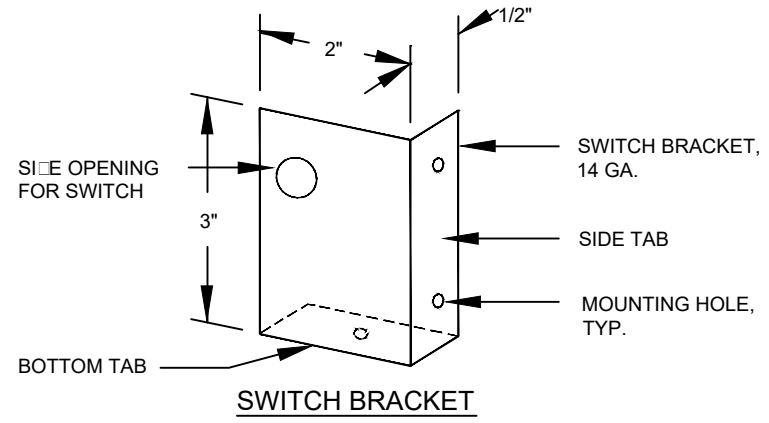
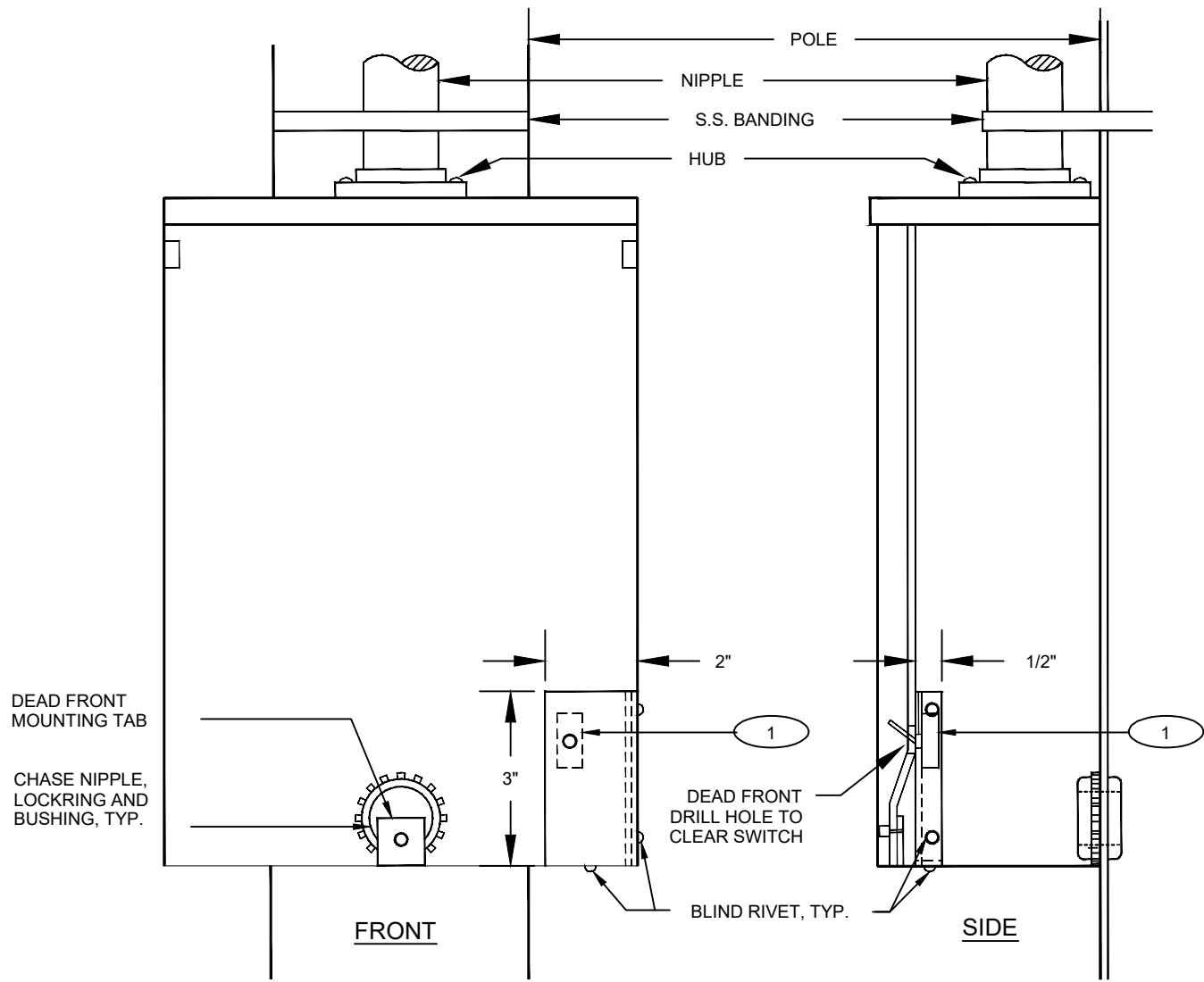
SPECIFICATION REFERENCE	

Effective 10/08/2020 to 12/09/2020



AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
BASE ADAPTOR PLATE FOR 1 1/2 INCH BOLT CIRCLE FOUNDATION						
DATE 12-12-9	DWG. NO. 322					

SPECIFICATION REFERENCE	



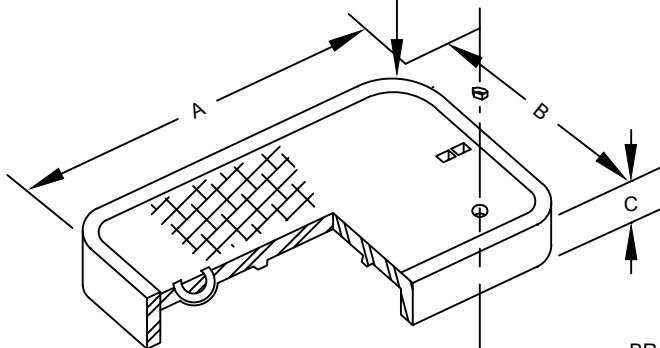
KEYED NOTE

1 SINGLE POLE, SINGLE THROW ON-OFF, 10 AMP, 125 VAC SWITCH, SEALED, WITH 5 IN. WIRE LEADS

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE		AGENCY APPROVED				M
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
□23	TRAFFIC SIGNALS □ STREETLIGHTING	SUPPLEMENTAL DRAWING				
		BYPASS SWITCH BRACKET FOR POLE MOUNTED STREET LIGHTING SERVICE				
		DATE 4-13-00	DWG. NO. 324.S1			

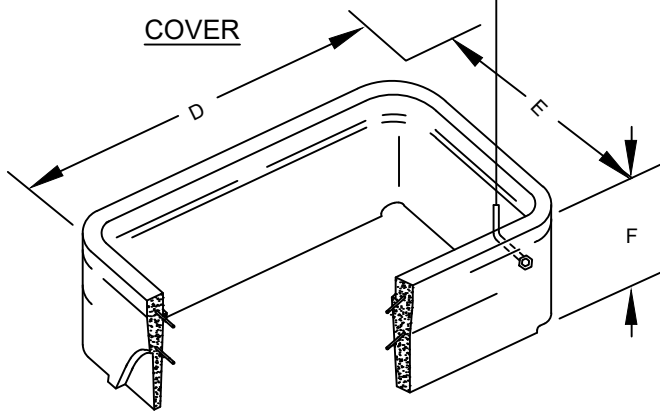
Effective 10/08/2020 to 12/09/2020

POLYMER COVER FOR PEDESTRIAN AREAS

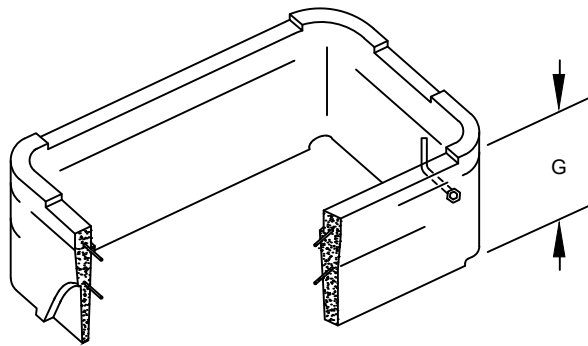


BRASS "L" BOLT AND NUT

COVER



BODY



EXTENSION

AS SPECIFIED BY THE ENGINEER

PULL BOX			
	SIZE		
	COMMERCIAL DESIGNATION		
	3-1/2	5	7
A	15	21-3/4	30-5/8
B	10	11-3/4	17-5/8
C	3/4	2	2
D	19-3/8	25	34-3/4
E	14-3/8	15	21-3/4
F	12	12	12
G	N/A	10-1/4	11-1/2

NOMINAL DIMENSION IN INCHES

NOTES

- COVERS INSTALLED IN TRAFFIC AND OPEN AREAS ACCESSIBLE TO TRAFFIC SHALL BE PER STANDARD DRAWING NO. 327.
- SEE STANDARD DRAWING NO. 323 FOR COVER GROUNDING.
- TOP OF UTILITY BOXES INSTALLED IN SIDEWALK SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SIDEWALK, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

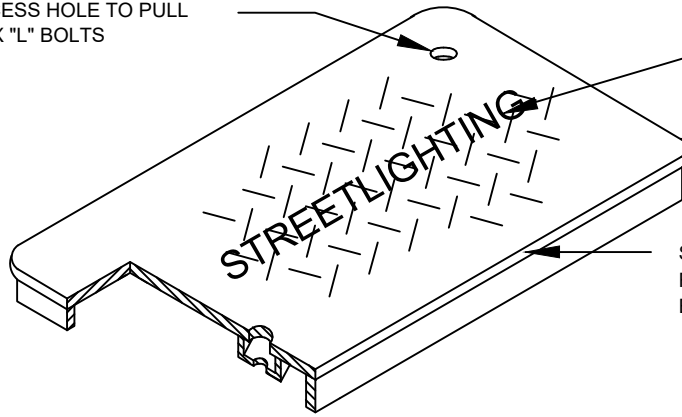
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
503	PRECAST PRESTRESSED CONCRETE MEMBERS
23	TRAFFIC SIGNALS & STREETLIGHTING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
PRECAST REINFORCED CONCRETE PULL BOX	
DATE 01-09-20	DWG. NO. 32

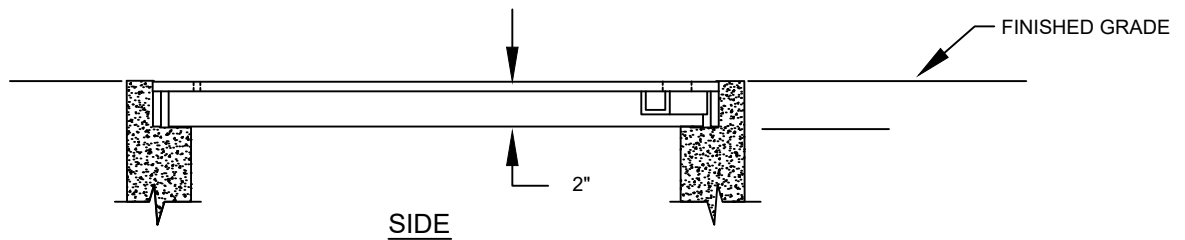
ACCESS HOLE TO PULL BOX "L" BOLTS

BEAD WELD INSCRIPTION



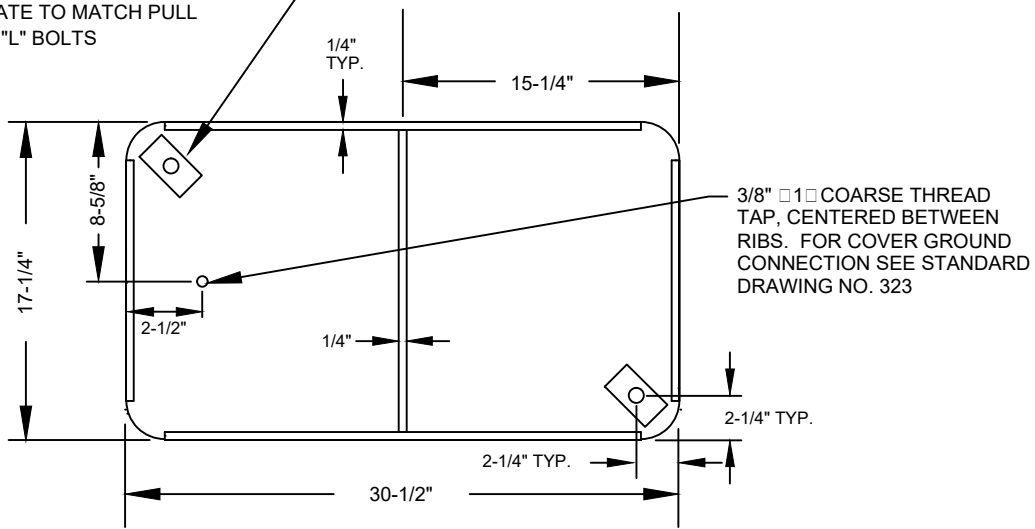
STEEL FLOOR PLATE, 3/8" THICK, ROUND CORNERS TO MATCH EDGES OF PULL BOX

COVER



SIDE

MOUNTING BRACKET, WELDED TO COVER, TYP. LOCATE TO MATCH PULL BOX "L" BOLTS



BOTTOM

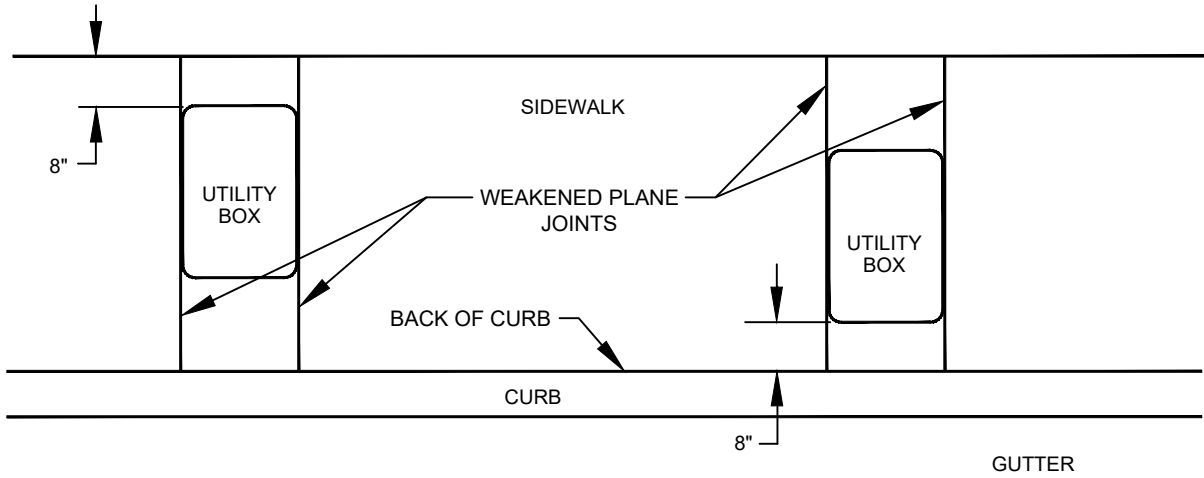
NOTES

1. COVER USED IN TRAFFIC AND OPEN AREAS ACCESSIBLE TO TRAFFIC ONLY.
2. TYPICAL NO. 7 PULL BOX COVER SHOWN. SUBMIT OTHERS TO THE ENGINEER FOR APPROVAL.
3. ALL TRAFFIC AND OPEN AREA COVERS SHALL BE H 20 RATED.

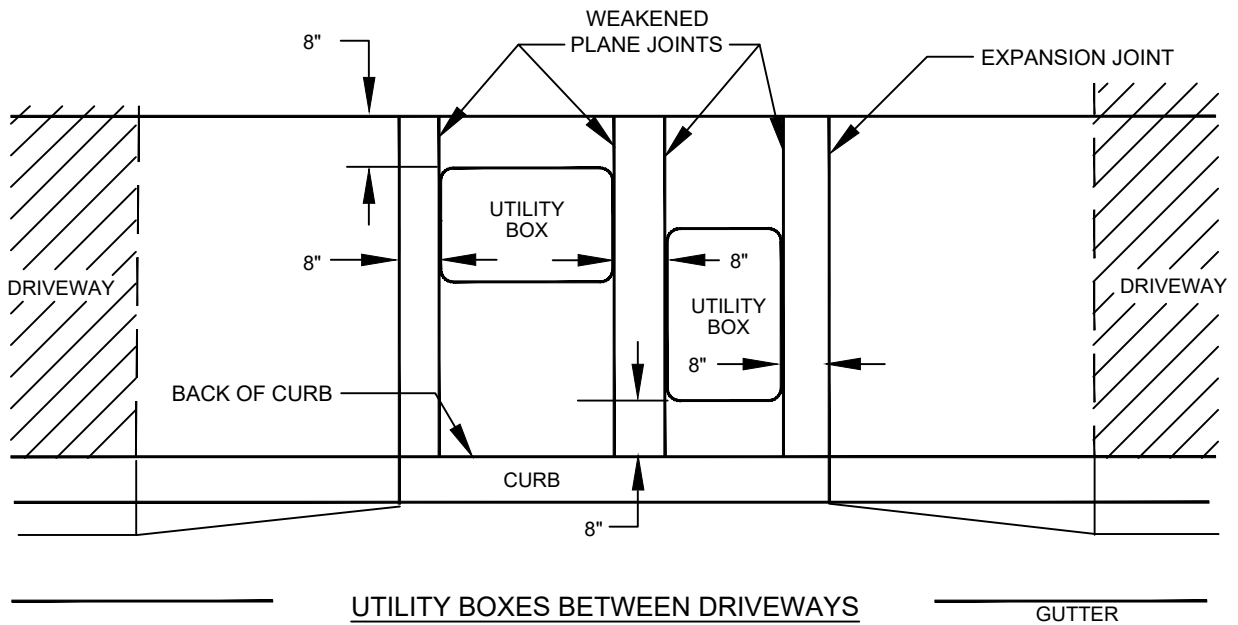
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
50	STEEL STRUCTURES
23	TRAFFIC SIGNALS STREETLIGHTING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
PULL BOX STREET COVER	
DATE 12-12-9	DWG. NO. 327



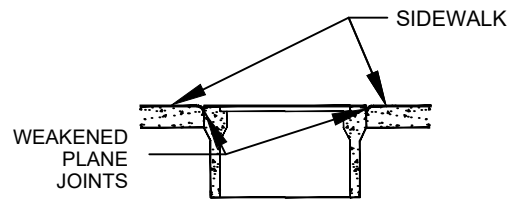
UTILITY BOXES IN SIDEWALK



UTILITY BOXES BETWEEN DRIVEWAYS

NOTES

1. PROVIDE A MINIMUM OF 8" AROUND ALL BOXES. ANY BOX SHALL NOT BE PLACED WITHIN 3'-3" OF FIRE HYDRANTS IN DRIVEWAYS OR DRIVEWAY APRONS. THIS DRAWINGS IS NOT INTENDED TO LIMIT THE NUMBER OF BOXES BETWEEN DRIVEWAYS TO TWO.
2. FOR WATER SERVICE BOXES, REFER TO UDACS PLATE 1-7.
3. WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.



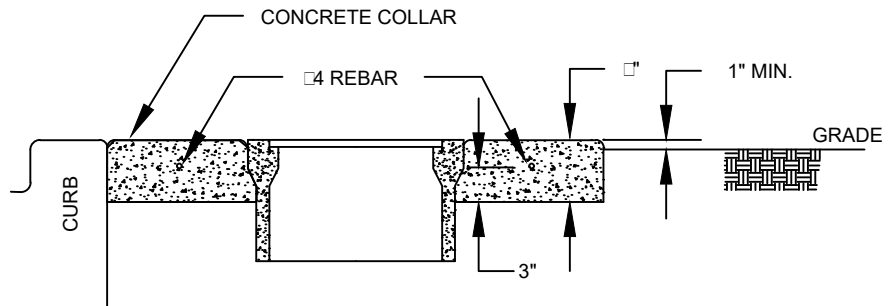
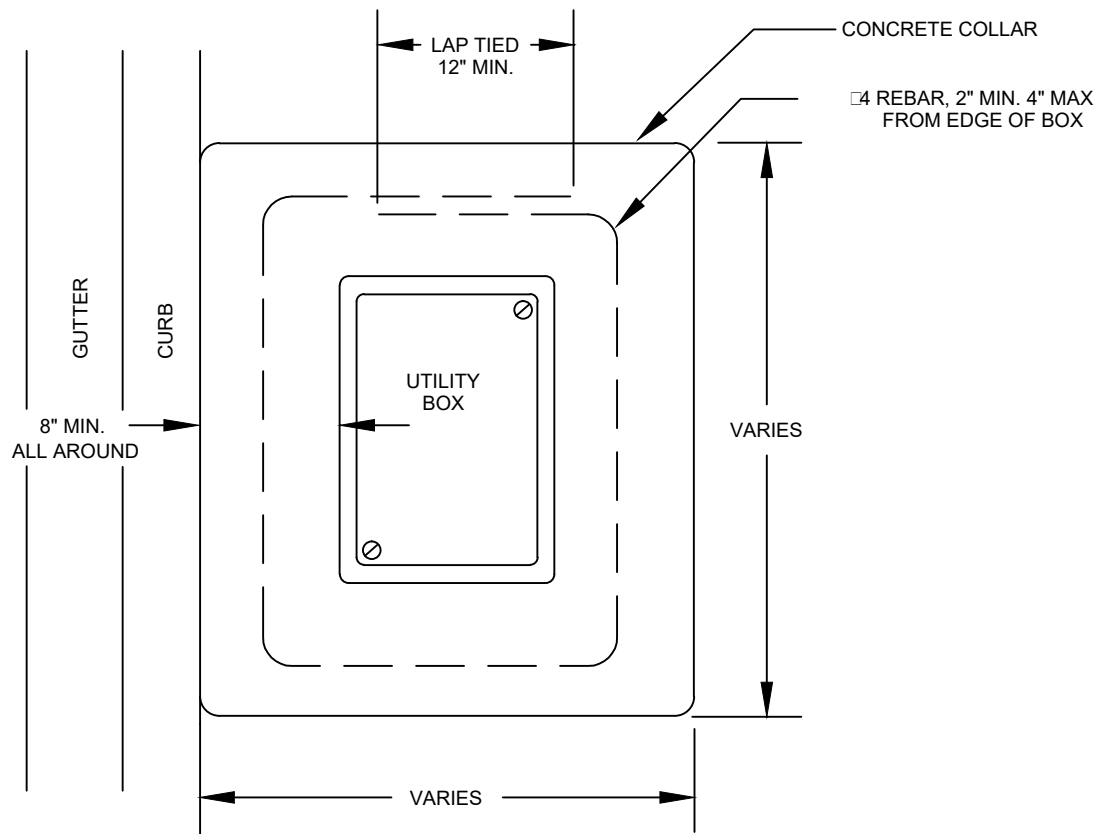
TYPICAL SECTION

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
505	REINFORCING STEEL
□23	TRAFFIC SIGNALS □ STREETLIGHTING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
UTILITY PULL BOX LOCATIONS SIDEWALK AND BETWEEN DRIVEWAYS	
DATE 01-09-20	DWG. NO. 328

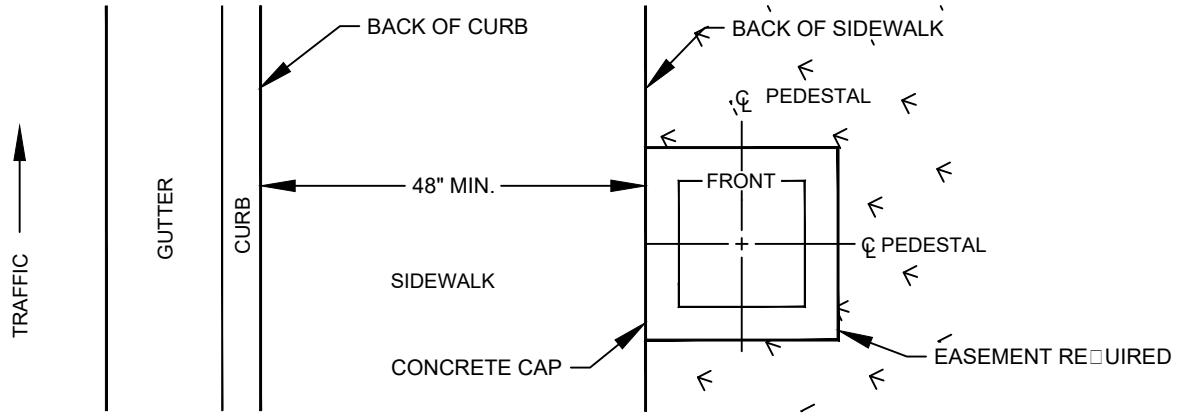
Effective 10/08/2020 to 12/09/2020



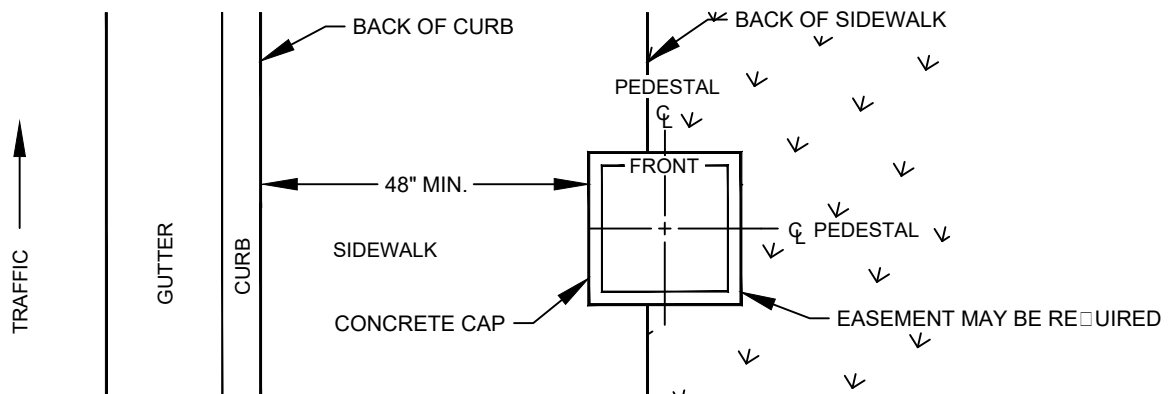
TYPICAL SECTION

Effective 10/08/2020 to 12/09/2020

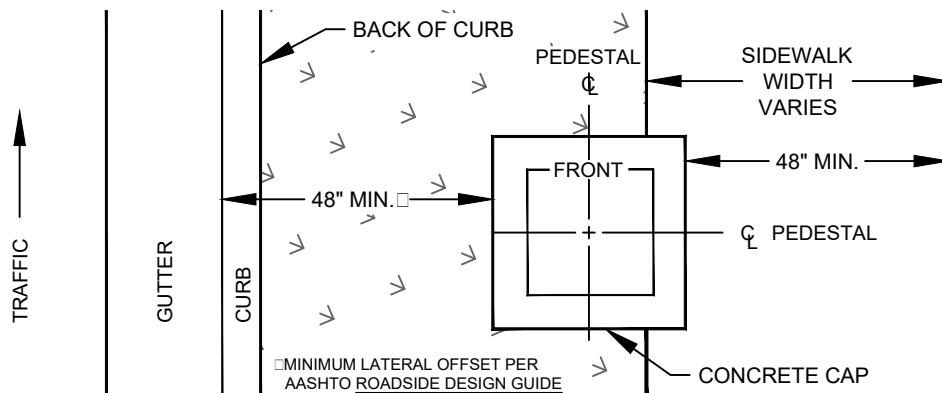
SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
501	PORTLAND CEMENT CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
505	REINFORCING STEEL	CONCRETE AROUND PULL BOXES IN UNDEVELOPED AREAS						
23	TRAFFIC SIGNALS □ STREETLIGHTING							
		DATE 12-12-9□	DWG. NO.	329				



BEHIND SIDEWALK □ FOR WIDTHS LESS THAN 5 FT. □



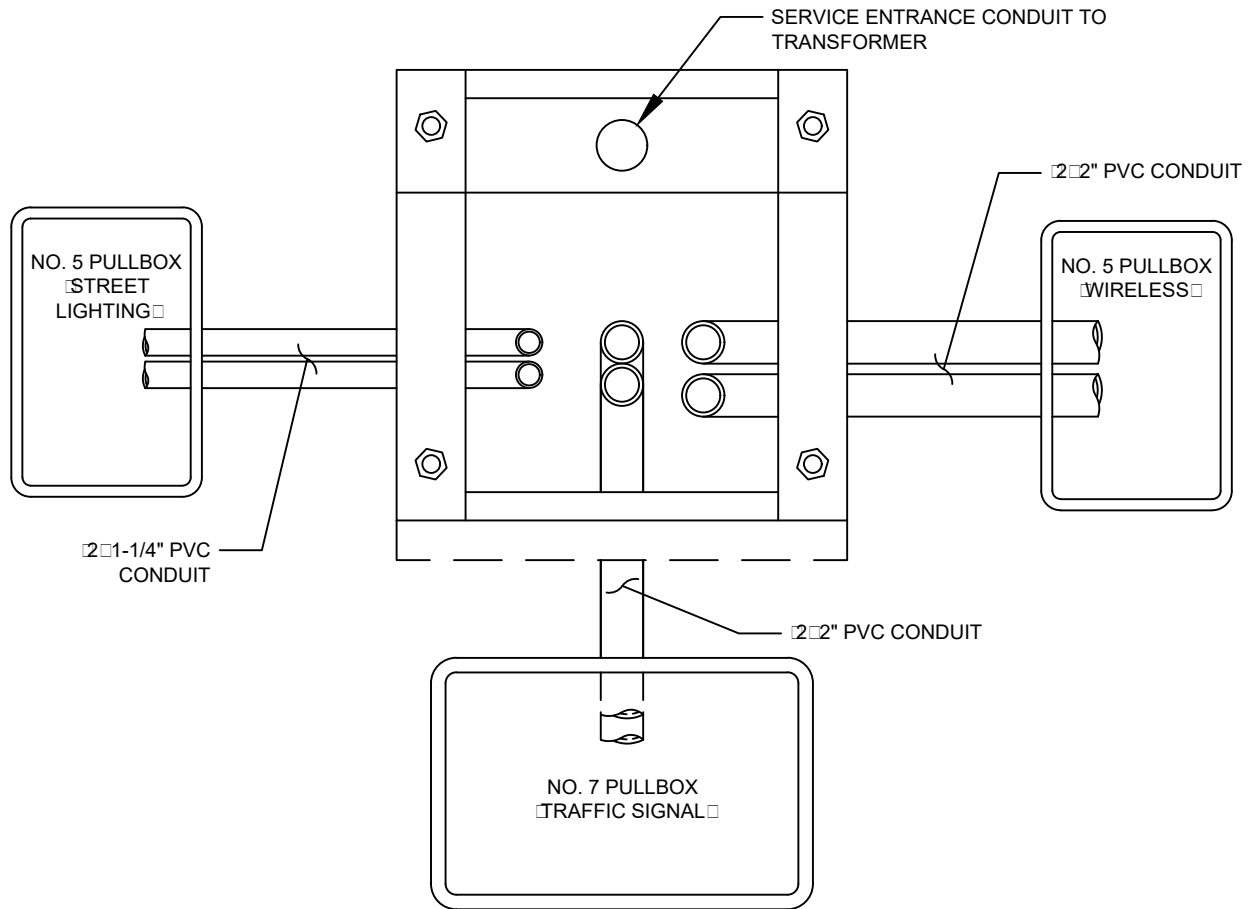
BACK PORTION OF SIDEWALK □ FOR WIDTHS OF 5 FT. OR GREATER □



OPEN AREA OR WITH AMENITY □ ONE

NOTE □ SURFACE TREATMENT ADJACENT TO FRONT OF PEDESTAL TO BE DETERMINED BY AGENCY.

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N	R
501	PORTLAND CEMENT CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
□23	TRAFFIC SIGNALS □ STREETLIGHTING								
		SERVICE PEDESTAL SETBACK AND ORIENTATION							
		DATE 08-08-19 DWG. NO. 331							



**PLAN VIEW
MOUNTING BASE DETAIL**

NOTES

1. BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
2. IN AREAS WHERE R/W PERMITS, THE CONCRETE BASE SHALL BE PLACED AT THE BACK EDGE OF THE SIDEWALK.
3. REFER TO STD. DWG. 331 FOR SERVICE PEDESTAL SETBACK AND ORIENTATION.
4. WIRE SIZES ARE BASED ON UNDERGROUND FEED.
5. WIRE SIZES SHALL BE INCREASED FOR VOLTAGE DROP LIMITATION WHEN RUN IS LONG.
- PULLBOX LOCATION TO BE DETERMINED BY THE ENGINEER.
7. WHERE FOUNDATION IS INSTALLED IN SIDEWALK, A CLEAR WIDTH OF 48" MIN. SHALL BE MAINTAINED ON SIDEWALK.

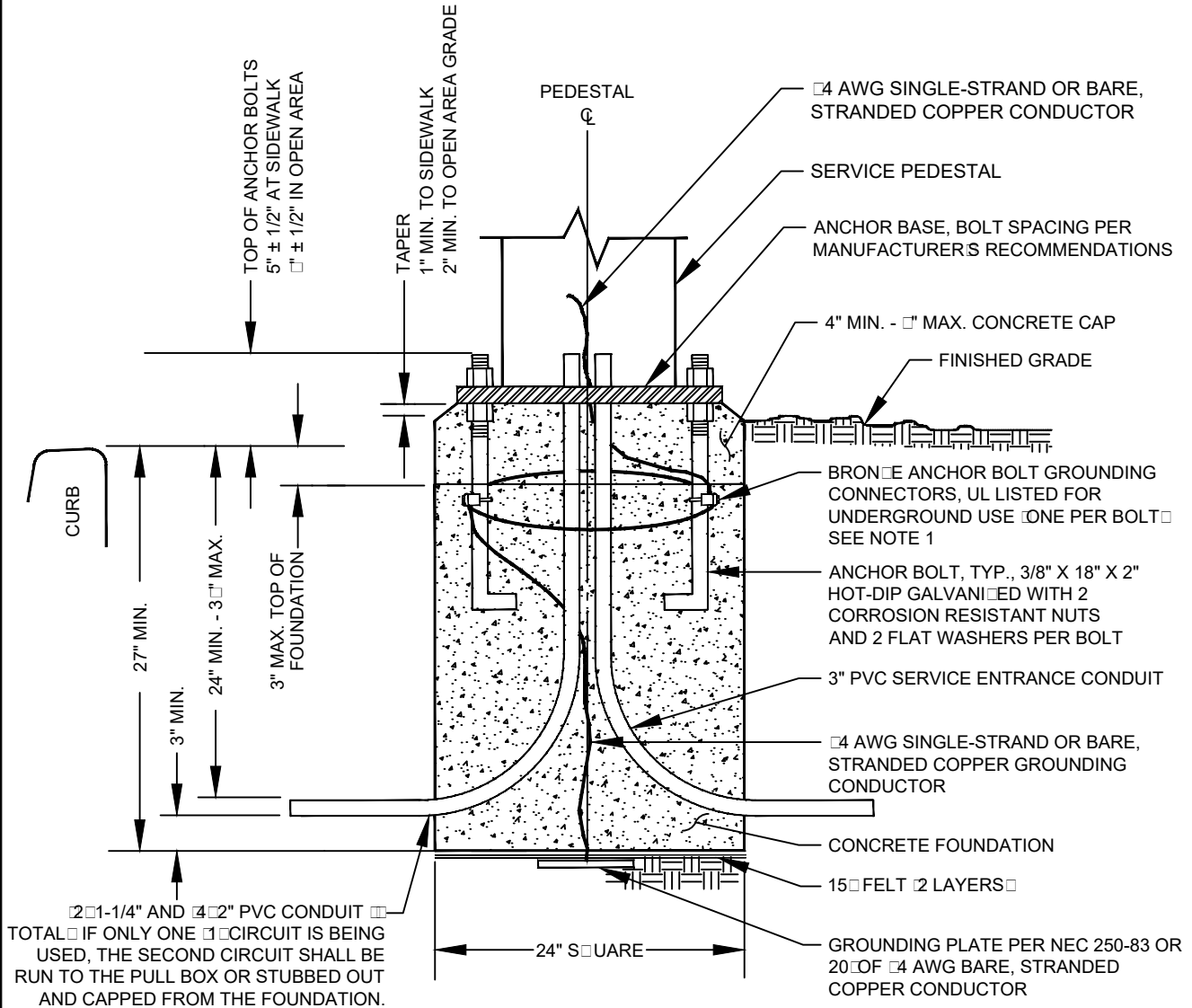
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
501	PORTLAND CEMENT CONCRETE
□23	TRAFFIC SIGNALS □ STREET LIGHTING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SERVICE PEDESTAL FOUNDATION STREET LIGHTING AND/OR TRAFFIC SIGNAL	

DATE 03-12-20	DWG. NO. 332	SHEET 1 OF 2
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Effective 10/08/2020 to 12/09/2020



SECTION

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

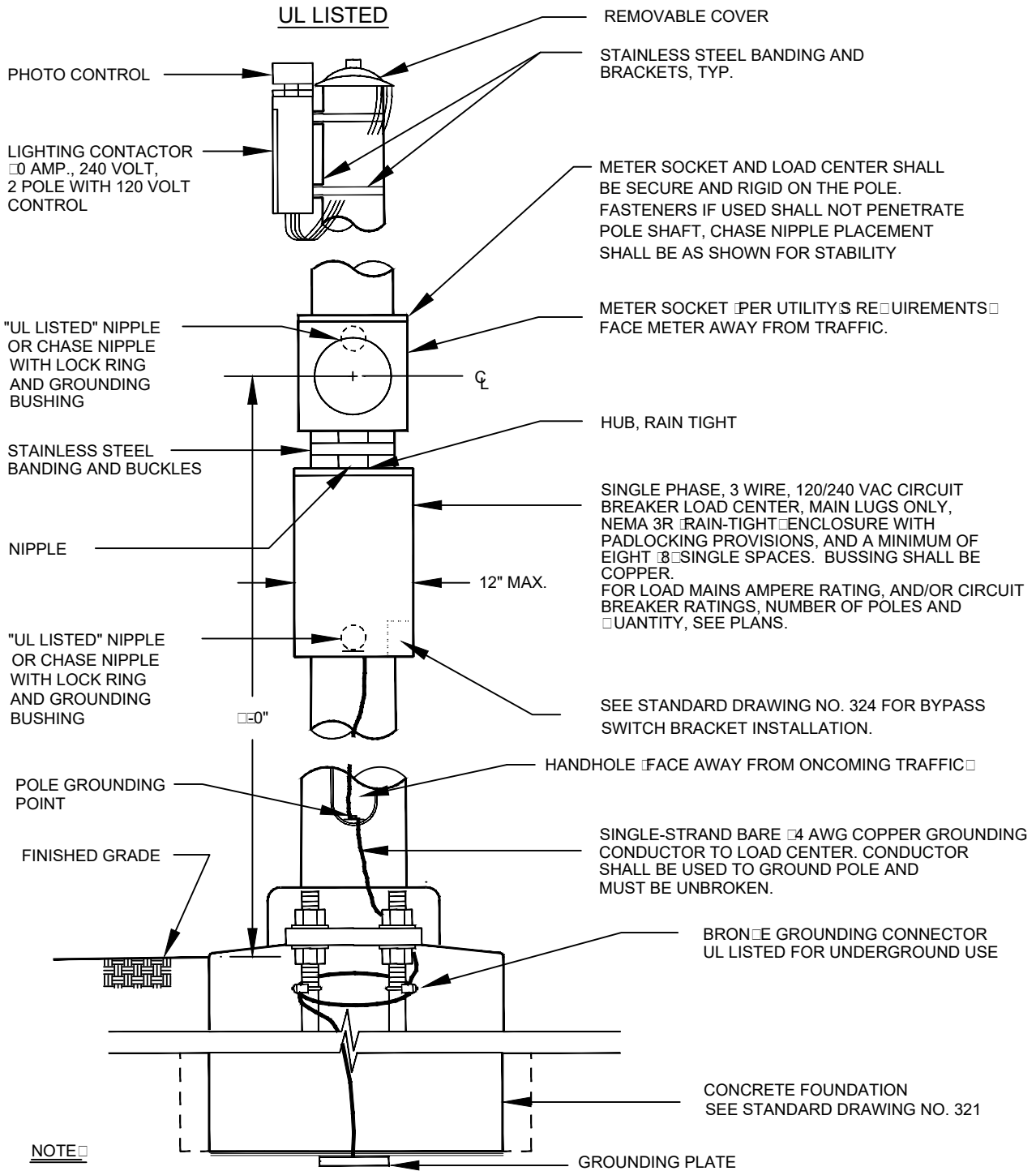
501	PORTLAND CEMENT CONCRETE
23	TRAFFIC SIGNALS STREET LIGHTING

SERVICE PEDESTAL FOUNDATION
STREET LIGHTING AND/OR TRAFFIC SIGNAL

DATE 03-12-20

DWG. NO. 332

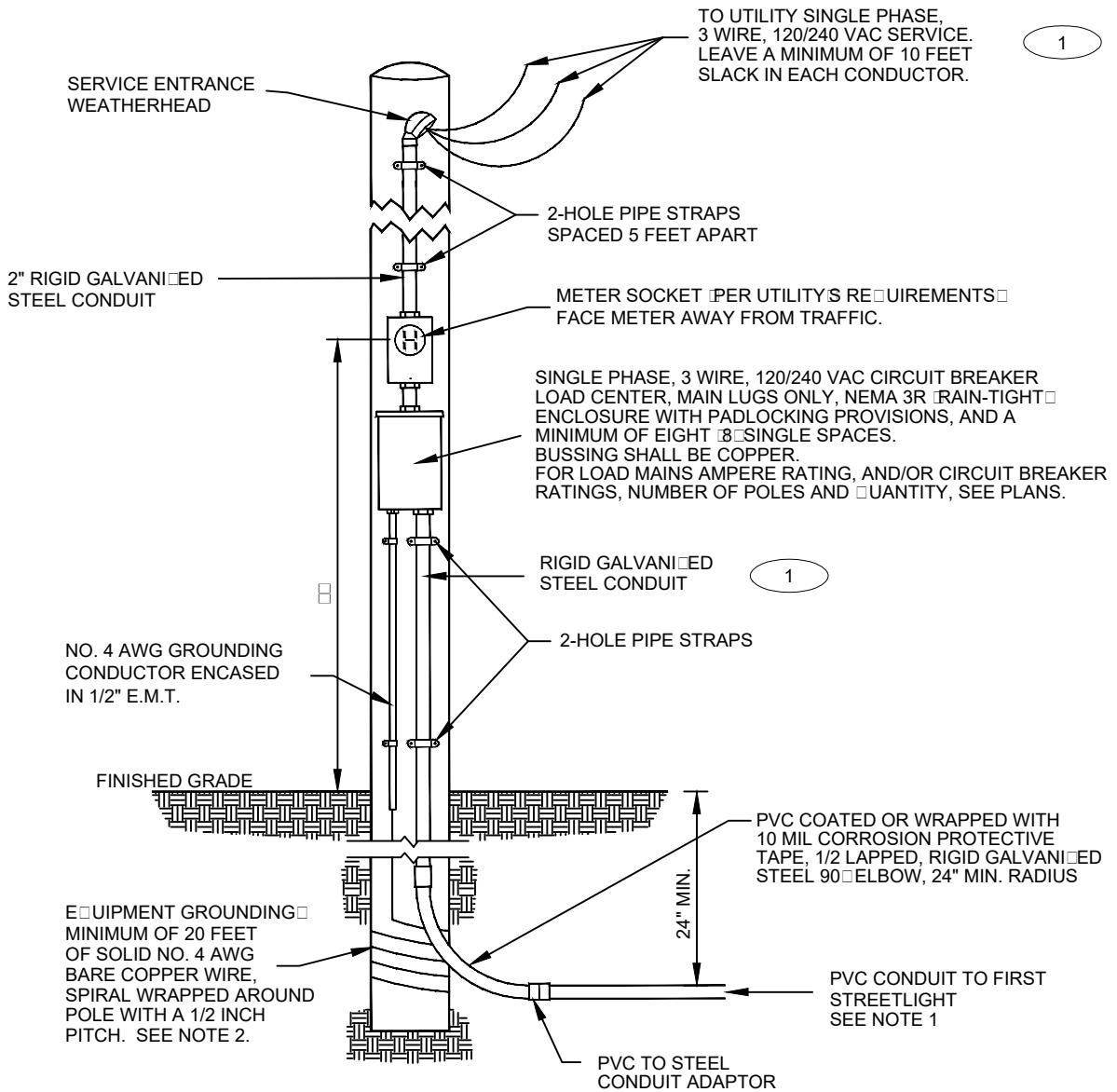
SHEET 2 OF 2



NOTE
RECOMMEND LOCATING SERVICE POINT AS
CLOSE TO THE CENTER OF THE
STREETLIGHTING CIRCUIT AS POSSIBLE.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE		AGENCY APPROVED				M
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
23	TRAFFIC SIGNALS & STREETLIGHTING	SUPPLEMENTAL DRAWING				
		STREET LIGHTING SERVICE POINT LOCATED ON STREETLIGHT STANDARD				
		DATE	4-13-00	DWG. NO.	333.S1	

Effective 10/08/2020 to 12/09/2020



1 125 AMP SERVICE 2" CONDUIT, 2 #1/0 THW AND 1 #4 WHITE THW
 200 AMP SERVICE 2" CONDUIT, 2 250 KCMIL THW AND 1 #1/0 WHITE THW
 0.82 DERATE HAS BEEN APPLIED FOR AMBIENT TEMPERATURE

NOTES

1. ALL WIRES TO BE COPPER - SEE PLANS FOR QUANTITY AND GAGES.
2. WITH ENGINEER'S APPROVAL, AN 8 FT. BY 5/8 IN. COPPER-CLAD GROUNDING ROD MAY BE USED.
3. ALL CONDUIT FITTINGS TO BE WATER-TIGHT.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED	B	C	H	L	M	N
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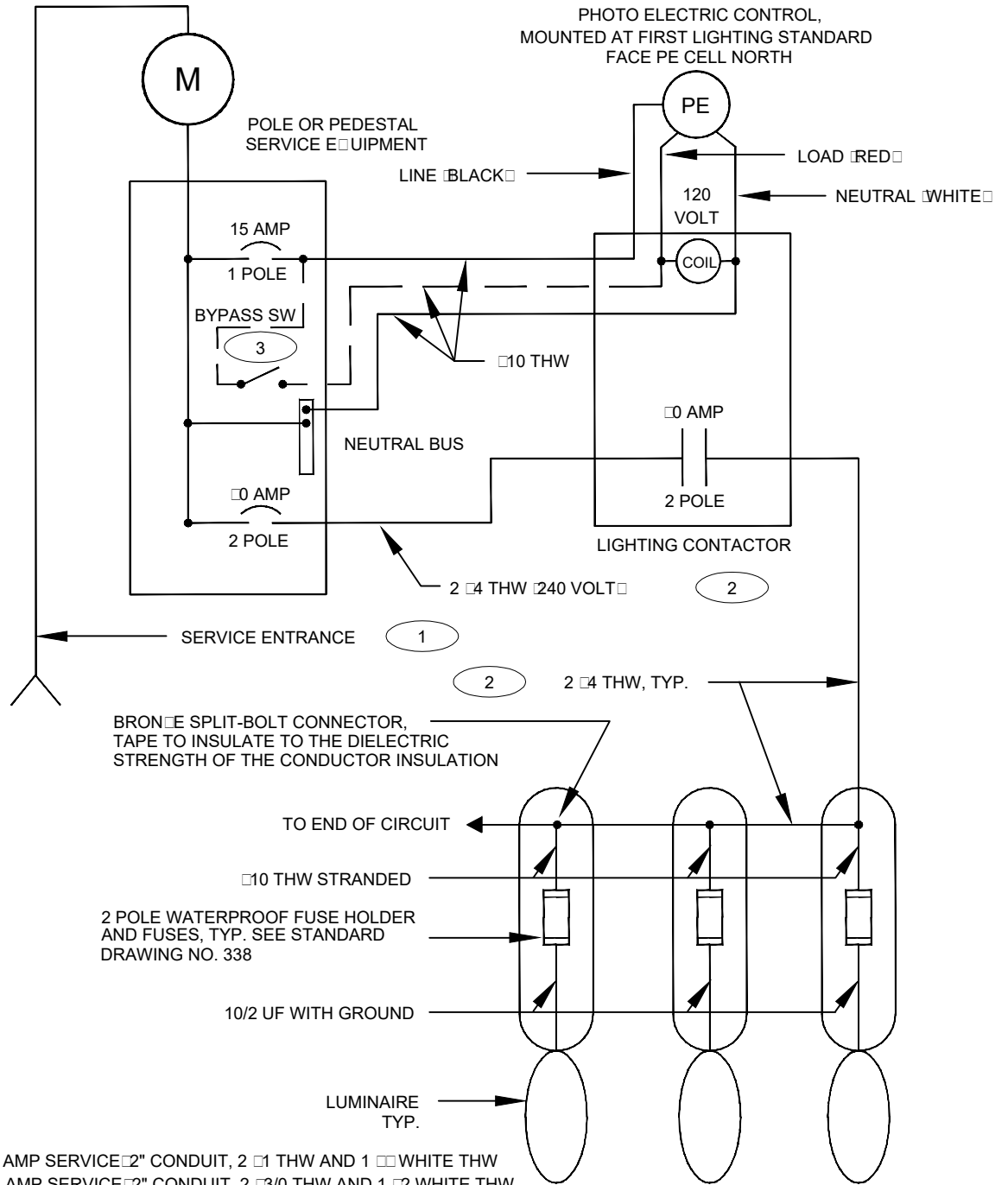
SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS
 CLARK COUNTY AREA

TEMPORARY APPLICATION
 120/240 VAC SERVICE
 ON WOOD POLE
 OVERHEAD SERVICE

DATE 8-12-99	DWG. NO. 334
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Effective 10/08/2020 to 12/09/2020



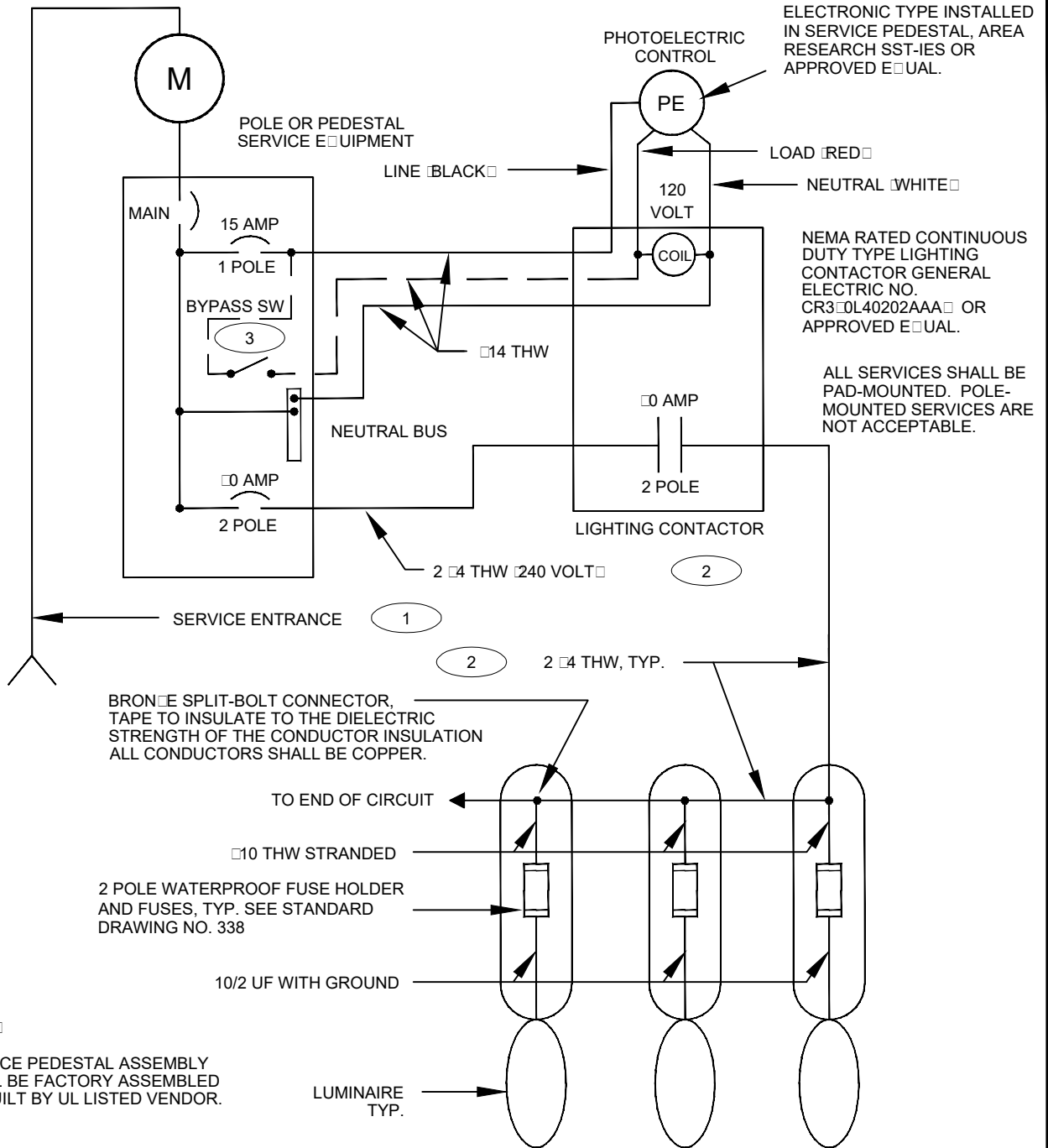
- 1 125 AMP SERVICE 2" CONDUIT, 2 #1 THW AND 1 #2 WHITE THW
200 AMP SERVICE 2" CONDUIT, 2 #3/0 THW AND 1 #2 WHITE THW
FOR POLE SERVICE, WIRE SIZES SHALL BE TEMPERATURE DERATED.
- 2 GROUNDING AND BONDING CONDUCTORS OMITTED FOR CLARITY,
SEE STANDARD DRAWING NOS. 334 AND 337.
- 3 SINGLE POLE, SINGLE THROW, ON-OFF, 10 AMP, 125 VAC SWITCH, SEALED, WITH 5 IN. LEADS

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B H M N

SPECIFICATION REFERENCE	
#23	TRAFFIC SIGNALS & STREETLIGHTING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SUPPLEMENTAL DRAWING	
STREETLIGHT CIRCUIT ONE LINE DIAGRAM	
DATE 2-10-00	DWG. NO. 335.S1



NOTE

SERVICE PEDESTAL ASSEMBLY SHALL BE FACTORY ASSEMBLED OR BUILT BY UL LISTED VENDOR.

- 1 FOR CONDUIT SIZE AND WIRING REQUIREMENTS FOR STREETLIGHT SERVICE, SEE STANDARD DRAWING NO. 332.S2.
- 2 GROUNDING AND BONDING CONDUCTORS OMITTED FOR CLARITY, SEE STANDARD DRAWING NOS. 330 AND 337.
- 3 SINGLE POLE, SINGLE THROW, ON-OFF, 15 AMP, 125 VAC SWITCH, SEALED, WITH 5 IN. LEADS

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

C

L

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

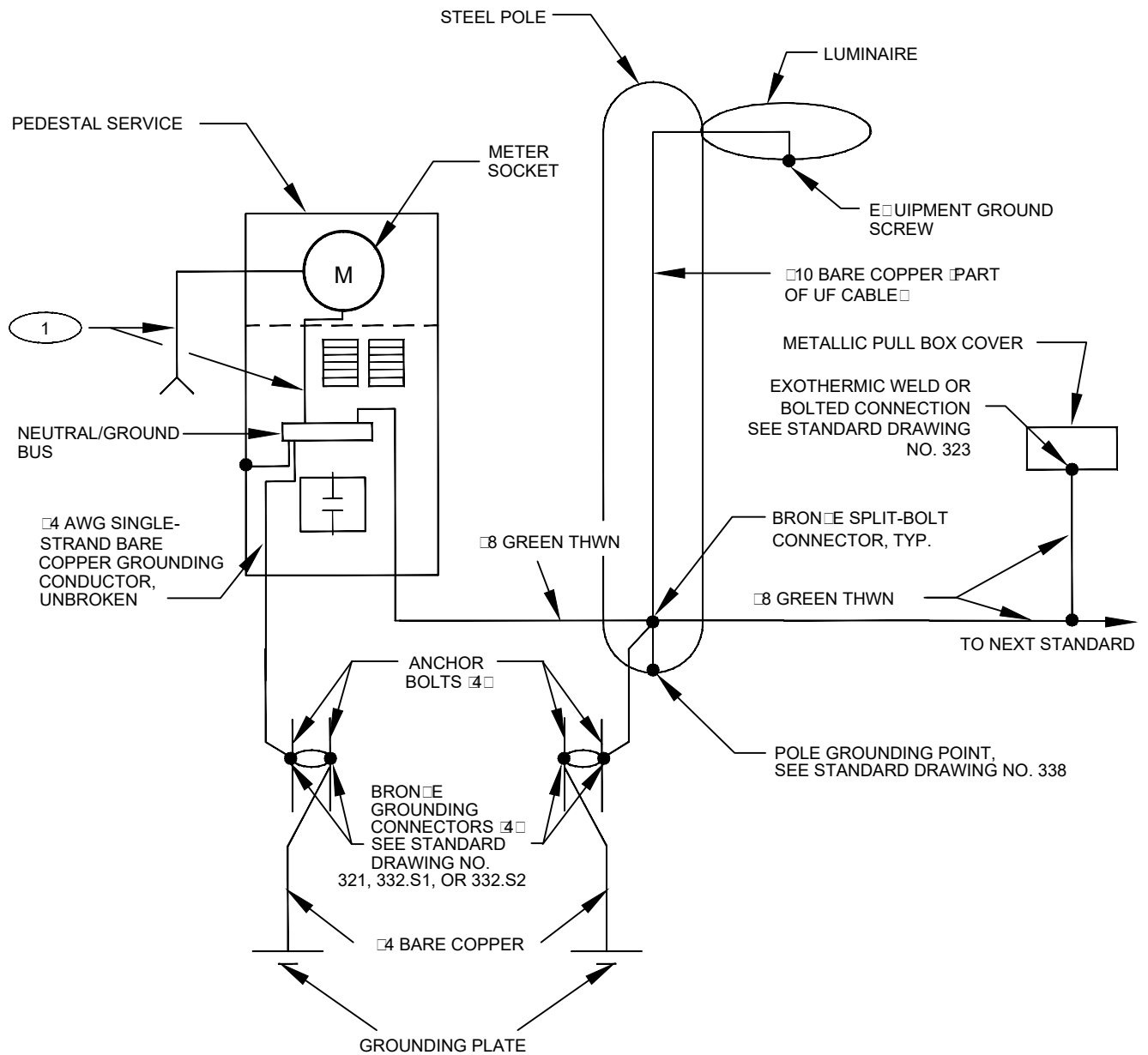
#23 TRAFFIC SIGNALS & STREETLIGHTING

SUPPLEMENTAL DRAWING

STREETLIGHT CIRCUIT
ONE LINE DIAGRAM

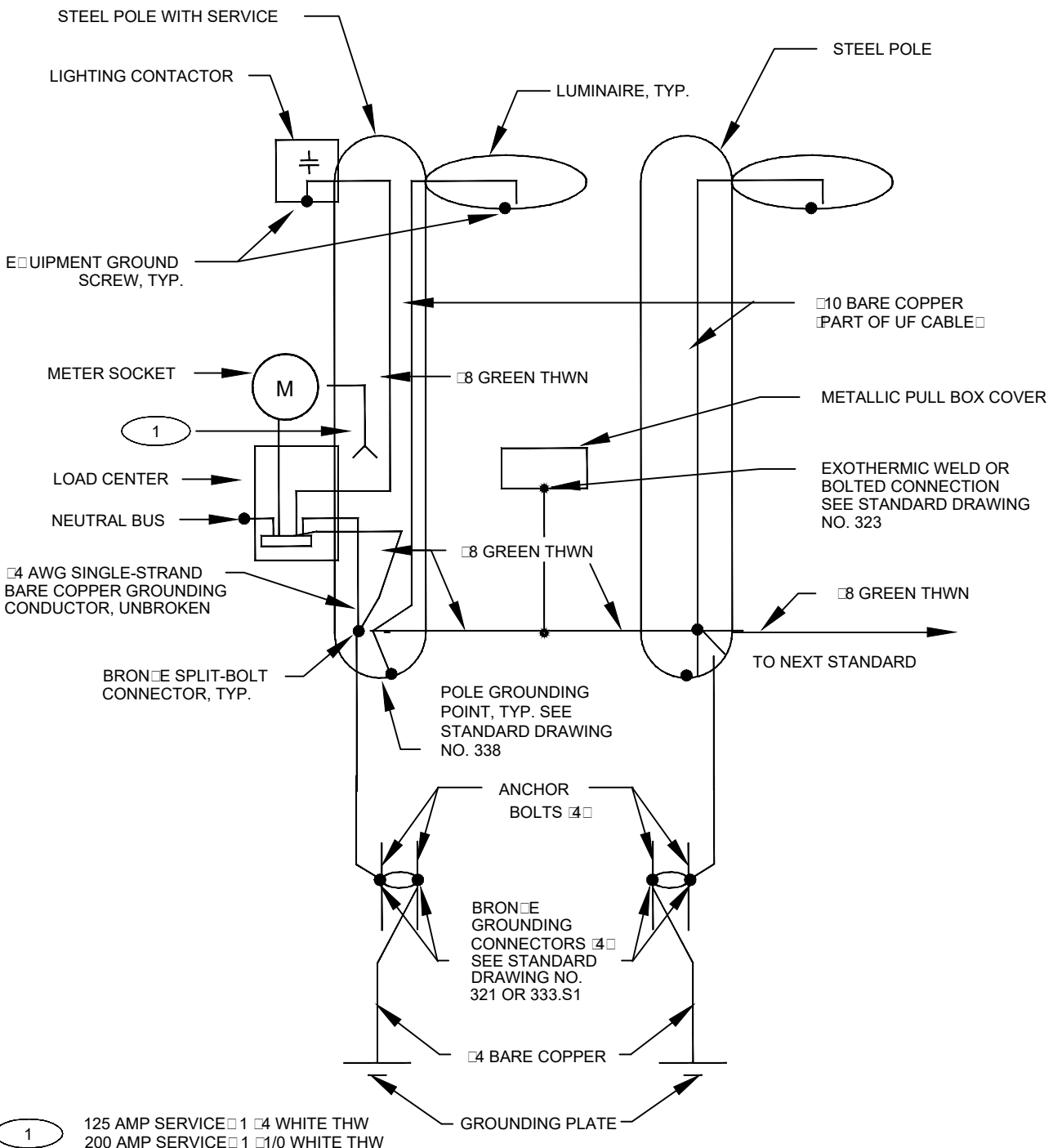
DATE 2-10-00

DWG. NO. 335.S2



1 FOR CONDUIT SIZE AND WIRING REQUIREMENTS FOR STREET LIGHT SERVICE, SEE STANDARD DRAWING NO. 332.S2 FOR LAS VEGAS AND CLARK COUNTY ONLY AND 332.S1 FOR ALL OTHER ENTITIES.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
23	TRAFFIC SIGNALS □ STREETLIGHTING	SYSTEM GROUNDING PLAN WITH PEDESTAL SERVICE						
DATE 2-10-00		DWG. NO. 33□						



1 125 AMP SERVICE 1 4 WHITE THW
 200 AMP SERVICE 1 1/0 WHITE THW

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
 CLARK COUNTY AREA

23	TRAFFIC SIGNALS	STREETLIGHTING

SYSTEM GROUNDING PLAN
 WITH POLE MOUNTED SERVICE

DATE 8-12-99	DWG. NO. 337
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Effective 10/08/2020 to 12/09/2020

BRONZE SPLIT-BOLT
CONNECTOR OR APPROVED
EQUAL INSULATED PER
STANDARD SPECIFICATIONS

10/2 UF WITH GROUND

G A B

10 BARE COPPER

4 AWG SINGLE-STRAND
BARE COPPER GROUNDING
CONDUCTOR

LOAD SIDE

DOUBLE POLE WATERPROOF
FUSE HOLDER ASSEMBLY

LINE SIDE

HEX HEAD NON-CORROSIVE
CAP SCREW WITH FLAT WASHER

10 THW STRANDED

POLE GROUNDING POINT

HANDHOLE, PROVIDE SLACK
IN WIRES TO EXTRACT FUSE
HOLDER AND CONNECTIONS,
18" MIN.

2 4 THW AND
1 8 GREEN THWN

POLE SHAFT

4 AWG SINGLE-STRAND
BARE COPPER GROUNDING
CONDUCTOR

BRONZE ANCHOR BOLT
GROUNDING CONNECTOR
UL LISTED FOR
UNDERGROUND USE

3"

1-1/4" PVC CONDUIT

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

23

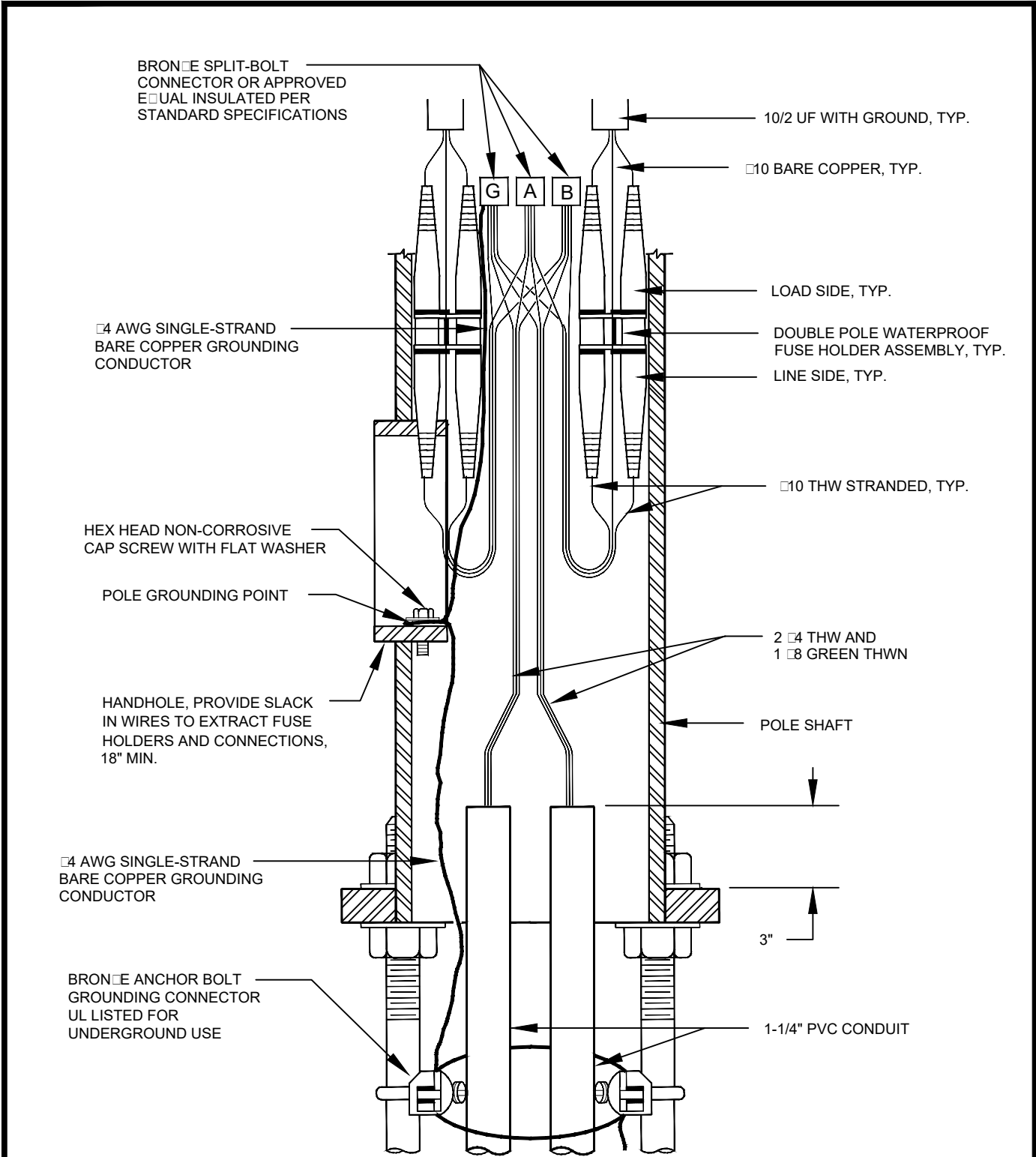
TRAFFIC SIGNALS STREETLIGHTING

LIGHTING STANDARD WIRING
DIAGRAM, 240 VOLT, TWO WIRE

DATE 12-12-9

DWG. NO.

338



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE	
#23	TRAFFIC SIGNALS # STREETLIGHTING

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TWIN LIGHTING STANDARD WIRING
DIAGRAM, 240 VOLT, TWO WIRE

DATE 12-12-9# DWG. NO. 339

Effective 10/08/2020 to 12/09/2020

BRONZE SPLIT-BOLT CONNECTOR OR APPROVED EQUAL INSULATED PER STANDARD SPECIFICATIONS. ALTERNATE PHASE CONNECTIONS AT EACH POLE

4 AWG SINGLE-STRAND BARE COPPER GROUNDING CONDUCTOR

HEX HEAD NON-CORROSIVE CAP SCREW WITH FLAT WASHER

POLE GROUNDING POINT

HANDHOLE, PROVIDE SLACK IN WIRES TO EXTRACT FUSE HOLDER AND CONNECTIONS, 18" MIN.

4 AWG SINGLE-STRAND BARE COPPER GROUNDING CONDUCTOR

BRONZE ANCHOR BOLT GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE

10/2 UF WITH GROUND

NEUTRAL

10 BARE COPPER

LOAD SIDE

SINGLE POLE WATERPROOF FUSE HOLDER ASSEMBLY

LINE SIDE

10 THW STRANDED

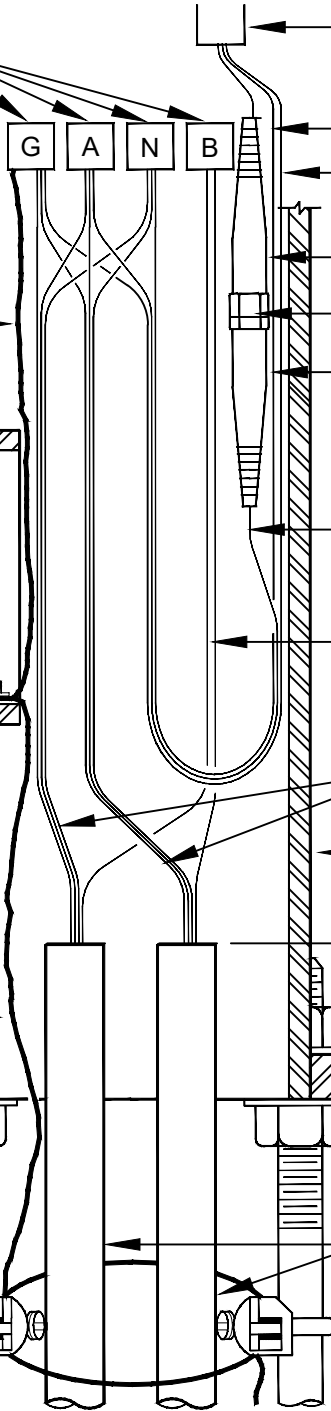
2 4 WHITE THW

3 4 THW AND 1 8 GREEN THWN

POLE SHAFT

3"

1-1/4" PVC CONDUIT



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

23

TRAFFIC SIGNALS STREETLIGHTING

LIGHTING STANDARD WIRING DIAGRAM
120 VOLT, ONE PHASE, THREE WIRE

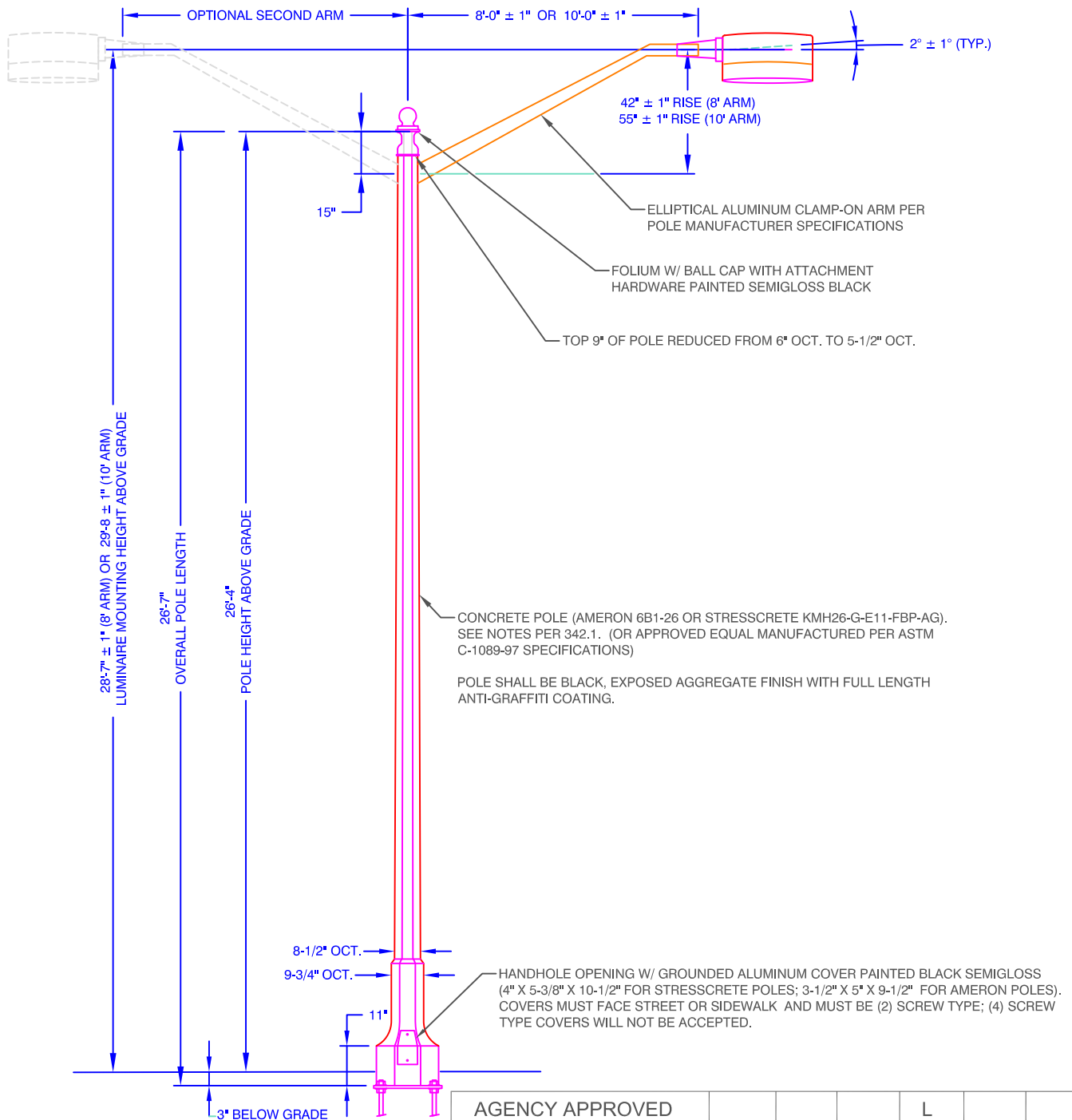
DATE 12-12-9

DWG. NO.

340

NOTES

1. ADDITIONAL SPECIFICATIONS PER POLE MANUFACTURER.
2. 8' ARMS SHALL BE USED FOR ROADSIDE INSTALLATIONS ON STREETS WITH LESS THAN 100' RIGHT-OF-WAY, UNLESS OTHERWISE DIRECTED.
3. 10' ARMS SHALL BE USED FOR MEDIAN INSTALLATIONS AND ON ROADSIDES WITH 100' OR GREATER RIGHT-OF-WAY, UNLESS OTHERWISE DIRECTED.
4. PAINT ARMS AND ATTACHMENT HARDWARE SEMIGLOSS BLACK.
5. BANNER ARMS ONLY WHEN SPECIFIED ON THE PLANS.
6. CONSTRUCT FOUNDATION PER USD 343.
7. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, PRIOR TO ORDERING MATERIALS. APPROVED FIXTURE LIST IS LOCATED ON CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS.
8. CITY ENGINEER MAY APPROVE EQUAL FIXTURES THAT MEET AESTHETIC AND LIGHT LEVEL REQUIREMENT PER USD 300.S3. LIGHTING STUDY REQUIRED.



Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED								L
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA								
CITY OF LAS VEGAS 26' STREET LIGHT POLE FOR TOWN CENTER AREA								
DATE 08-09-18			DWG. NO.			341		

SPECIFICATION REFERENCE	
623	TRAFFIC SIGNALS & STREET LIGHTING

AMERON NOTES AND SPECIFICATIONS:

"F" LEVEL CONFIG CODES			"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.	OPTION CLASS	ENTRY	INFO.
COATING	1	-	MIX	12	-
HH COVER	43436PA	"LV"	FINISH	3	-
DOOR SCRS	TMP	-	BASEPLATE	45042	NOTE #8
DRILL-IN MOD	MODEBEB	-	POLE TOP CON.	MOD90	-

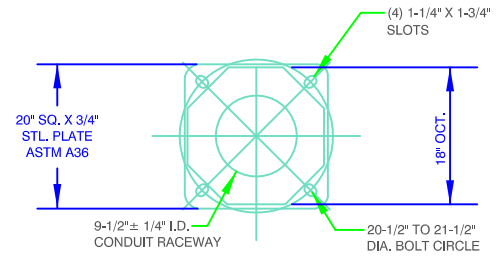
DECORATIVE BASE OCTAGONAL BASE PLATE POLE

POLE DESIGNATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.J. MOMENT (FT.-LBS.)	POLE WEIGHT (LBS.)
6B121	20'-10"	21'-1"	21"	18"	18,400	1,255

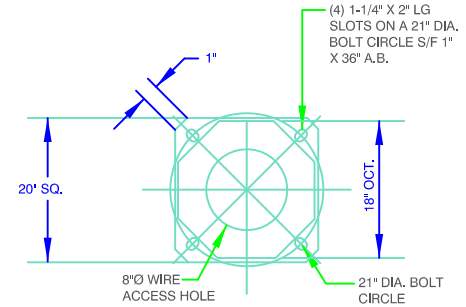
() POLES REQUIRED, EACH WITH 4' & 8' DOUBLE ALUMINUM LMA
 SINGLE BELL RECEPTACLE (P/N: T.B.D.) & TAMPER
 PROOF WRENCH (P/N: 45126)

NOTES:

- MIX (1231): BLACK, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.
- f_c @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST.
- f_c @ 28 DAYS = 5,000 PSI USING ASTM C-31 CYLINDER TEST.
- POLES MANUFACTURED PER ASTM C-1089-06 SPECIFICATIONS.
- BASEPLATE ASTM A-36 FULLY PRESTRESSED WITH (8) 5/16" DIA. A-416 WIRES (7-STRAND CABLES).
- PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
- LMA IS DESIGNED TO ROTATE TO ANY OCTAGONAL FLATS PER CUSTOMER'S REQUIREMENTS.
- POLE SHOWN IS SUITABLE FOR CAPPED BASE PLATE (ENCASED IN CONCRETE), OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRED A GALVANIZED BASE PLATE.
- THE 8" DOUBLE TOP MOUNT ALUMINUM DECORATIVE S-ARM PIPE LMA ASSEMBLY (NOT TO EXCEED UP TO, 1.74 SQ. FT. EPA, 12 LBS. PER SIDE) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY (2) GE DECAPHERE FLAT LUMINAIRES (NOT TO EXCEED 1.9 SQ. FT. EPA, 48 LBS. EACH, ONE PER SIDE); THE POLE DEPICTED IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY TO TOP MOUNT LMA, THE (2) LUMINAIRES & (2) 18" X 60" BANNER CENTERED NO HIGHER THAN 12'-6" ABOVE GRADE, AS DESIGNED PER THE 2009 AASHTO LTS-5 IN A 90MPH WIND ZONE (3-SECOND GUSTS), PLEASE ADVISE IF THE INTENDED LOADING EXCEEDS THESE VALUES.



AMERON BASE PLATE DETAIL
N.T.S.



STRESSCRETE BASE PLATE DETAIL
1" THK. GALV. STEEL
N.T.S.

STRESSCRETE NOTES AND SPECIFICATIONS:

POLE SPECIFICATIONS:

CATALOGUE NO.:	KMH21-G-E11-FBP C/W 140-35/55
SECTION:	OCTAGONAL
COLOUR:	ECLIPSE
FINISH:	ETCHED
POLE LENGTH:	21'-0"
POLE TOP:	7 3/16" FL/FL
POLE BUTT:	18" FL/FL
APPROX. WGT.:	T.B.A.
QUANTITY:	
MIN. RACEWAY:	1 1/8" Ø

ARM SPECIFICATIONS:

CATALOGUE NO.:	KA33-T-4/8'-2
QUANTITY:	
MATERIAL:	ALUMINUM
PAINT:	SEMI-GLOSS BLACK

COATINGS REQUIRED:

-1 COAT ANTI-GRAFFITI FULL LENGTH

NOTES:

- MIX ECLIPSE BLACK, EXPOSED AGGREGATE FINISH WITH JONES BLAIR ANTI GRAFFITI COATING.
- f_c @ 28 DAYS = 8,000 PSI, USING ASTM C-31 CYLINDER TEST.
- POLES MANUFACTURED PER ASTM C-1089-06 SPECIFICATIONS.
- BASEPLATES ASTM A-36 WELDED BY CERTIFIED WELDER.
- PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
- LMA IS DESIGNED TO ROTATE TO ANY OCTAGONAL FLATS PER CUSTOMERS REQUIREMENTS.
- POLE SHOWN IS SUPPLIED WITH GALV. STEEL BASEPLATE FOR CAPPED OR NON-CAPPED INSTALLATION.
- THE 8" DOUBLE TOP MOUNT ALUMINUM DECORATIVE S-ARM PIPE LMA ASSEMBLY (NOT TO EXCEED UP TO, 1.74 SQ. FT. EPA, 12 LBS. PER SIDE) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY GARDCO OR KING LUMINAIRE FIXTURES. THE POLE DEPICTED IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY THE TOP MOUNT LMA AND THE (2) LUMINAIRES, AS DESIGNED PER THE 2009 AASHTO LTS-5 IN A 90MPH WIND ZONE (3-SECOND GUSTS).
- STRESSCRETE POLE WARRANTY - LIFETIME.

Effective 10/08/2020 to 12/09/2020

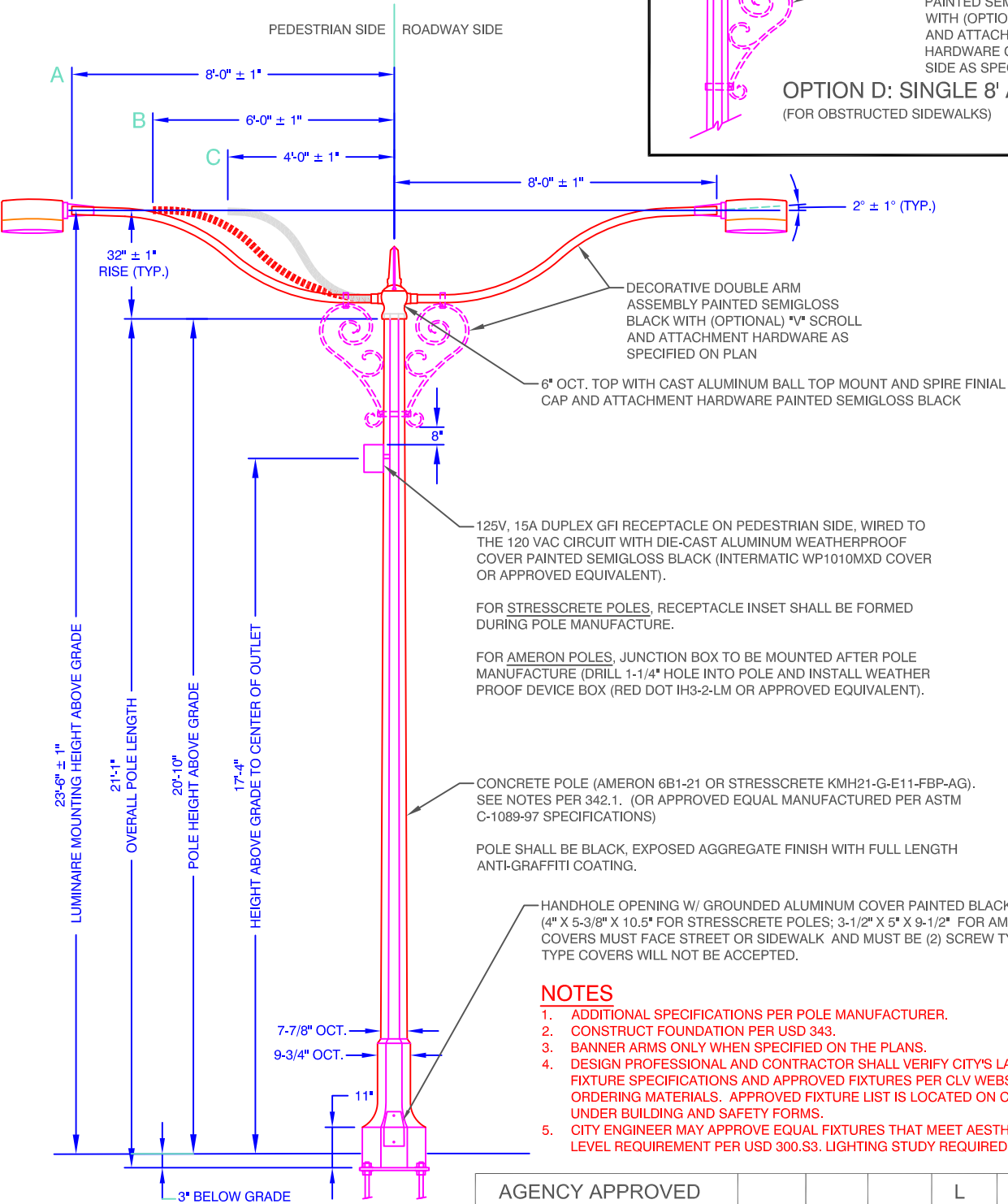
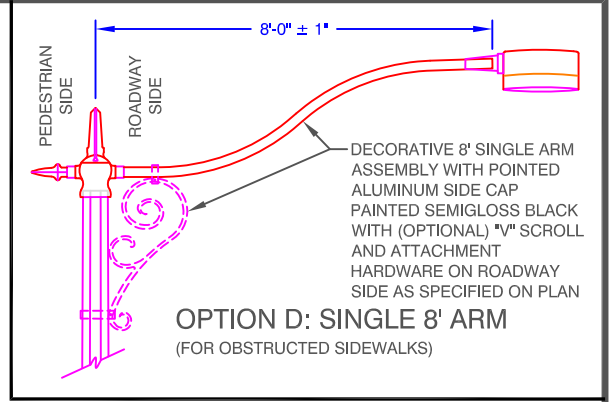
AGENCY APPROVED				L	
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
CITY OF LAS VEGAS STREET LIGHT NOTES AND SPECIFICATIONS (AMERON AND STRESSCRETE)					
DATE 08-09-18	DWG. NO.	342.1			

SPECIFICATION REFERENCE	
501	PORTLAND CEMENT CONCRETE
623	TRAFFIC SIGNALS & STREET LIGHTING

OPTION A: 8' + 8' ARMS (FOR 15'+ SIDEWALKS OR FOR MEANDERING SIDEWALKS)

OPTION B: 6' + 8' ARMS (FOR 15' SIDEWALKS, INCLUDING AMENITY ZONE)

OPTION C: 4' + 8' ARMS (FOR 10' SIDEWALKS, INCLUDING AMENITY ZONE)



FOR STRESSCRETE POLES, RECEPTACLE INSET SHALL BE FORMED DURING POLE MANUFACTURE.

FOR AMERON POLES, JUNCTION BOX TO BE MOUNTED AFTER POLE MANUFACTURE (DRILL 1-1/4\"/>

CONCRETE POLE (AMERON 6B1-21 OR STRESSCRETE KMH21-G-E11-FBP-AG). SEE NOTES PER 342.1. (OR APPROVED EQUAL MANUFACTURED PER ASTM C-1089-97 SPECIFICATIONS)

POLE SHALL BE BLACK, EXPOSED AGGREGATE FINISH WITH FULL LENGTH ANTI-GRAFFITI COATING.

HANDHOLE OPENING W/ GROUNDED ALUMINUM COVER PAINTED BLACK SEMIGLOSS (4\"/>

NOTES

1. ADDITIONAL SPECIFICATIONS PER POLE MANUFACTURER.
2. CONSTRUCT FOUNDATION PER USD 343.
3. BANNER ARMS ONLY WHEN SPECIFIED ON THE PLANS.
4. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, PRIOR TO ORDERING MATERIALS. APPROVED FIXTURE LIST IS LOCATED ON CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS.
5. CITY ENGINEER MAY APPROVE EQUAL FIXTURES THAT MEET AESTHETIC AND LIGHT LEVEL REQUIREMENT PER USD 300.S3. LIGHTING STUDY REQUIRED.

AGENCY APPROVED							L	
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SPECIFICATION REFERENCE

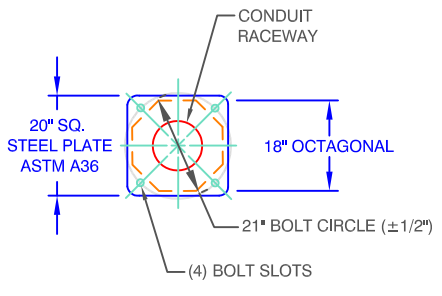
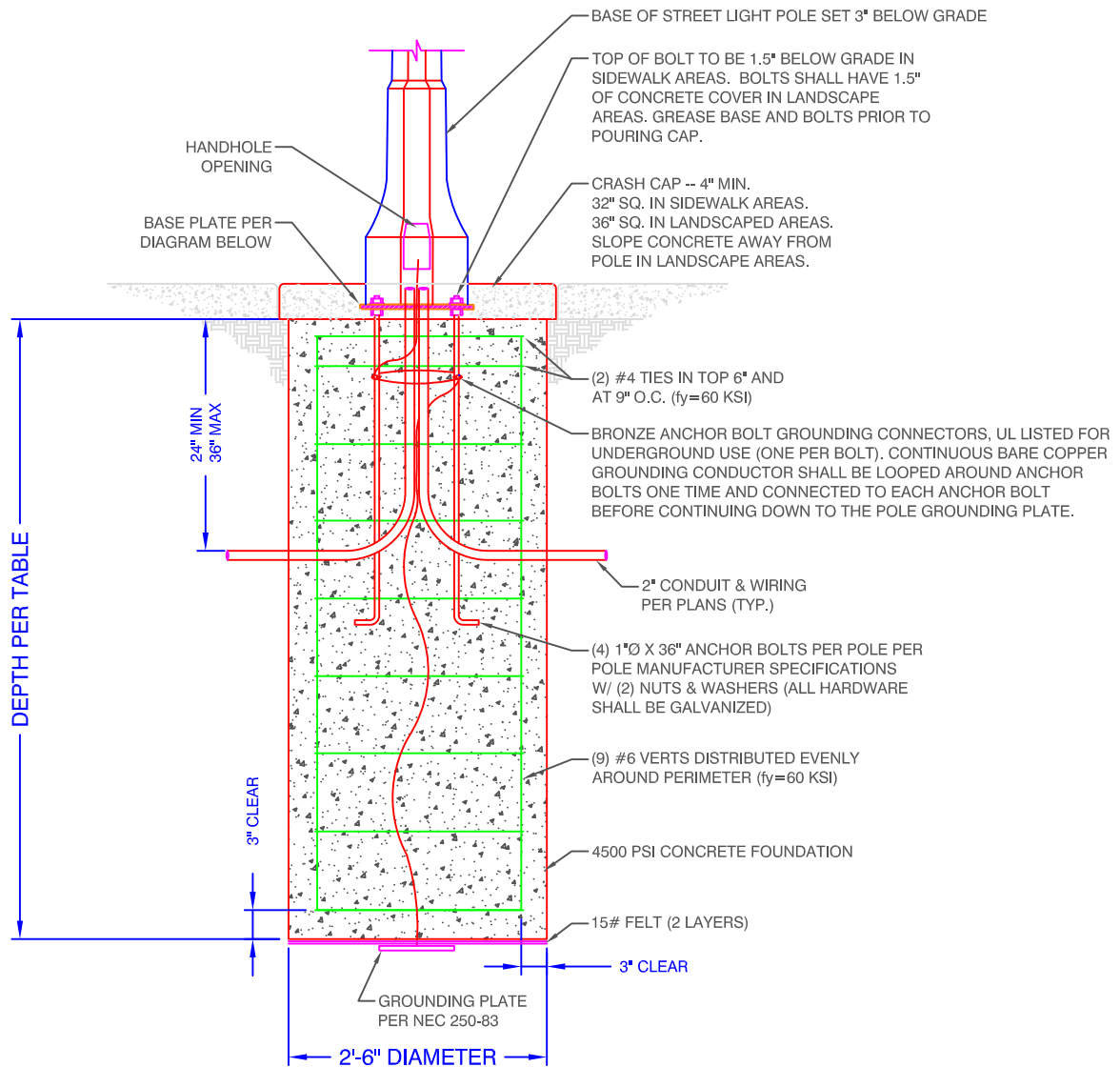
623	TRAFFIC SIGNALS & STREET LIGHTING

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

**CITY OF LAS VEGAS
21' STREET LIGHT POLE
FOR DOWNTOWN CENTENNIAL AREA**

DATE 08-09-18	DWG. NO.	342
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Effective 10/08/2020 to 12/09/2020



BASE DIAGRAM

BASE PLATES SHALL BE PER POLE MANUFACTURER SPECIFICATIONS

POLE & ARM CONFIGURATION	FOUNDATION DEPTH			
	SOIL TYPE			
	SAND/GRAVEL ($\phi=30^\circ$, $\gamma=110\text{pcf}$)	STIFF CLAY ($C=1.0$)	MEDIUM CLAY ($C=0.60$)	SOFT CLAY ($C=0.25$)
21' TALL WITH 1 OR 2 ARMS UP TO 10' EACH	5'-3"	6'-6"	7'-4"	9'-6"
26' TALL WITH 1 ARM UP TO 12'	5'-9"	6'-9"	7'-8"	8'-6"
26' TALL WITH 2 ARMS UP TO 12' EACH	6'-3"	7'-3"	8'-4"	10'-0"

- NOTES:**
- C = COHESION MEASURED IN KIPS PER SQUARE FOOT.
 - CONTRACTOR SHALL DETERMINE SOIL TYPE BY TAKING UNDISTURBED SAMPLES AS REQUIRED BY THE CITY ENGINEER.
 - ANALYSIS BY PROFESSIONAL STRUCTURAL ENGINEER ON FILE WITH CITY ENGINEER.

AGENCY APPROVED _____ L _____

SPECIFICATION REFERENCE

501	PORTLAND CEMENT CONCRETE
623	TRAFFIC SIGNALS & STREET LIGHTING

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

**CITY OF LAS VEGAS
STREET LIGHT POLE FOUNDATION
FOR DOWNTOWN CENTENNIAL
AND TOWN CENTER AREAS**

DATE 08-09-18 DWG. NO. 343

Effective 10/08/2020 to 12/09/2020

MANHOLE NOTES

1. MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 09, "CATCH BASINS, MANHOLES AND INLETS" OF THE "STANDARD SPECIFICATIONS".
 2. REINFORCING STEEL SHALL BE AS SHOWN, WIRED TIGHTLY AT ALL INTERSECTIONS AND EMBEDDED AT LEAST ONE INCH CLEAR UNLESS OTHERWISE NOTED.
 3. EXCAVATION SHALL BE AS NEARLY VERTICAL AS POSSIBLE SHEET AND SHORE, IF SOIL CONDITIONS REQUIRE IN EXISTING STREET SECTIONS, ALLEY SECTIONS AND CONFINED AREAS SUCH AS LIMITED EASEMENTS OR ADJACENT TO STRUCTURES. NATURAL ANGLE OF REPOSE WILL ALLOW IN ALL OTHER AREAS.
 4. MANHOLE DESIGN FOR PIPE LARGER THAN SIXTY INCHES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 5. MANHOLE DESIGN FOR DEPTHS EXCEEDING EIGHTEEN FEET SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- TYPE AND SIZE OF MANHOLE TO BE CONSTRUCTED IN A PARTICULAR LOCATION SHALL BE DETERMINED BY THE PIPE SIZE, ALIGNMENT AND GRADE AS FOLLOWS

TYPE I

FORTY-EIGHT INCH SIZE

- A. ALL CASES FOR PIPE EIGHTEEN INCHES AND SMALLER.
- B. TWENTY-FOUR INCHES AND SMALLER PIPE ON TANGENT LINE AND GRADE.

SIXTY INCH SIZE

- A. TWENTY-SEVEN INCH THROUGH THIRTY-SIX INCH PIPE ON TANGENT LINE AND GRADE.
- B. TWENTY-ONE INCH THROUGH TWENTY-SEVEN INCH PIPE AT ANGLE POINTS AND CHANGES IN GRADE OR PIPE SIZE.

TYPE I-A

USED IN PLACE OF TYPE I WHEN COVER ABOVE CONDUIT IS LIMITED, AND WHEN APPROVED BY THE ENGINEER.

TYPE II

FORTY-EIGHT INCH SIZE

- A. THIRTY INCH THROUGH SIXTY INCH PIPE ON TANGENT LINE WITH A CHANGE IN GRADE OR PIPE SIZE.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
501	CONCRETE	STORM DRAIN MANHOLES GENERAL NOTES						
09	CATCH BASINS, MANHOLES							
	INLETS							
		DATE 2-9-0	DWG. NO.	401	SHEET 1 OF 2			

MANHOLE NOTES (CONTINUED)

TYPE III

TANGENT

SIXTY (60) INCH SIZE

- A. THIRTY-NINE (39) INCH THROUGH SIXTY (60) INCH PIPE ON TANGENT LINE AND GRADE WITH NO CHANGE IN PIPE SIZE.

ANGLE POINT

SIXTY (60) INCH SIZE

- A. THIRTY (30) INCH THROUGH SIXTY (60) INCH PIPE AT THE ANGLE POINT IN LINE.

- 7. PRECAST MANHOLE COMPONENTS SHALL CONFORM TO ASTM C-478.
- 8. DISTANCE BETWEEN THE TOP OF MANHOLE AND FIRST STEP SHALL BE A MAXIMUM OF SIXTEEN (16) INCHES. MANHOLE STEPS SHALL BE GROUTED IN PLACE.
- 9. (CLARK COUNTY ONLY) DISTANCE BETWEEN MANHOLES SHALL BE A MAXIMUM OF FOUR HUNDRED (400) FEET.
- 10. MANHOLE SPACING SHALL BE REFERRED TO THE WASTE WATER COLLECTION STANDARDS.

Effective 10/08/2020 to 12/09/2020

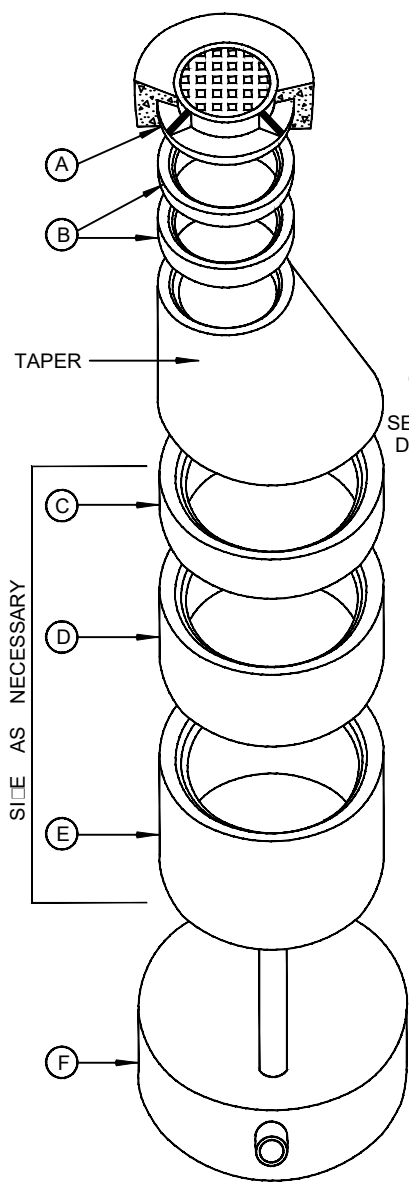
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SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
501	CONCRETE	STORM DRAIN MANHOLES GENERAL NOTES						
(09)	CATCH BASINS, MANHOLES (
	INLETS							
		DATE 2-9-0(DWG. NO.	401	SHEET 2 OF 2			

DROP INLET NOTES

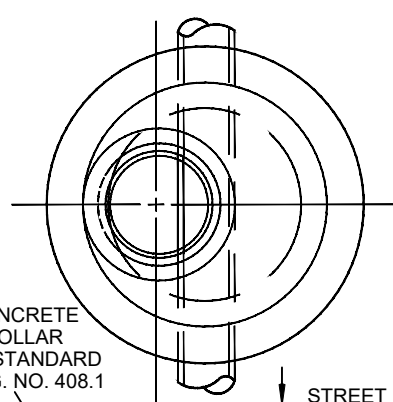
1. ALL DROP INLETS, REGARDLESS OF TYPE, SHALL BE LOCATED SUCH THAT THE CURB OPENING (OR GRATE) IS A MINIMUM OF TEN (10) FEET FROM THE NEAREST P.C. OR P.T. OF THE CURRENT OR FUTURE CURB RETURN.
2. FOR CURB RETURNS WHERE A LOW POINT CONDITION EXIST OR IS PROPOSED AT THE P.C. OR P.T., THE CURB PROFILE SHALL BE DESIGNED SUCH THAT THE LOW POINT COINCIDES WITH THE CURB OPENING AS SPECIFIED ON NOTE NO. 1.
3. IF DRIVEWAYS OR UTILITIES EXIST, THE ENTITY ENGINEER SHALL APPROVE THE LOCATION OF THE DROP INLET.
4. WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

Effective 10/08/2020 to 12/09/2020

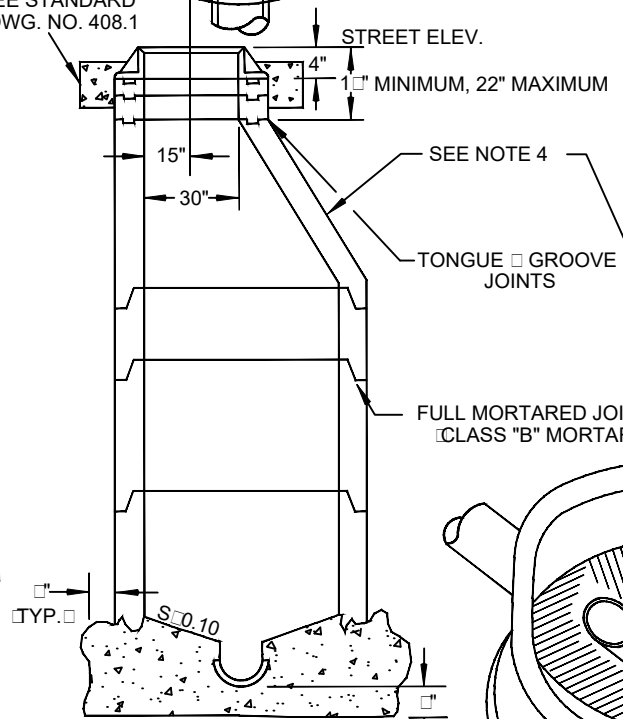
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SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
501	CONCRETE	STORM DRAIN DROP INLET GENERAL NOTES							
09	CATCH BASINS, MANHOLES & INLETS								
		DATE 01-09-20	DWG. NO. 402						



EXPLODED VIEW



CONCRETE COLLAR
SEE STANDARD
DWG. NO. 408.1



SYM.	ITEM
A	RING & COVER
B	GRADE ADJUSTING RING
C	1-SECTION REIN. CONC. PIPE
D	2-SECTION REIN. CONC. PIPE
E	3-SECTION REIN. CONC. PIPE
F	BASE

TAPER		HEIGHT
DIA.	H	
48"	3"	
0"	58"	
30" TO 48"	3"	
48" TO 0"	24"	

SIZE AS NECESSARY

SEE NOTE 4
TONGUE & GROOVE JOINTS

FULL MORTARED JOINTS
(CLASS "B" MORTAR)

BROOM FINISH

SMOOTH FINISH

FORM SMOOTH CURVE IN MANHOLE BASE FOR PIPE JUNCTION

ISOMETRIC VIEW

NOTES

1. IN UNIMPROVED NON-TRAFFIC AREAS, TOP OF MANHOLE SHALL BE 0" TO 9" ABOVE GRADE.
 2. PIPES SHALL NOT PROTRUDE MORE THAN 3" INSIDE OF MANHOLE SECTION. CONSTRUCT WATER TIGHT CONNECTION TO MANHOLE.
 3. PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.
 4. AN OPTIONAL TWO PIECE 30" TO 48" AND 48" TO 0" CONE MAY BE USED.
 5. THE USE OF A 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.
- WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

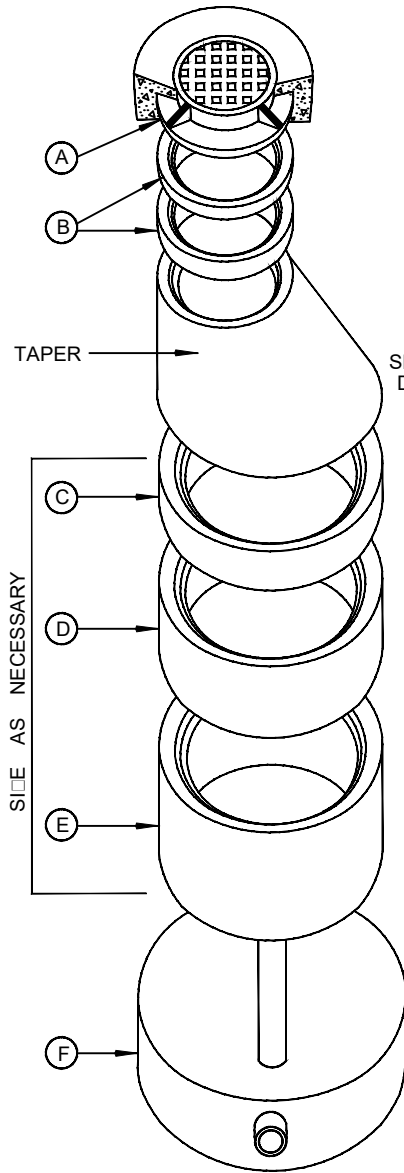
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
501	CONCRETE & MORTAR
09	CATCH BASINS, MANHOLES & INLETS

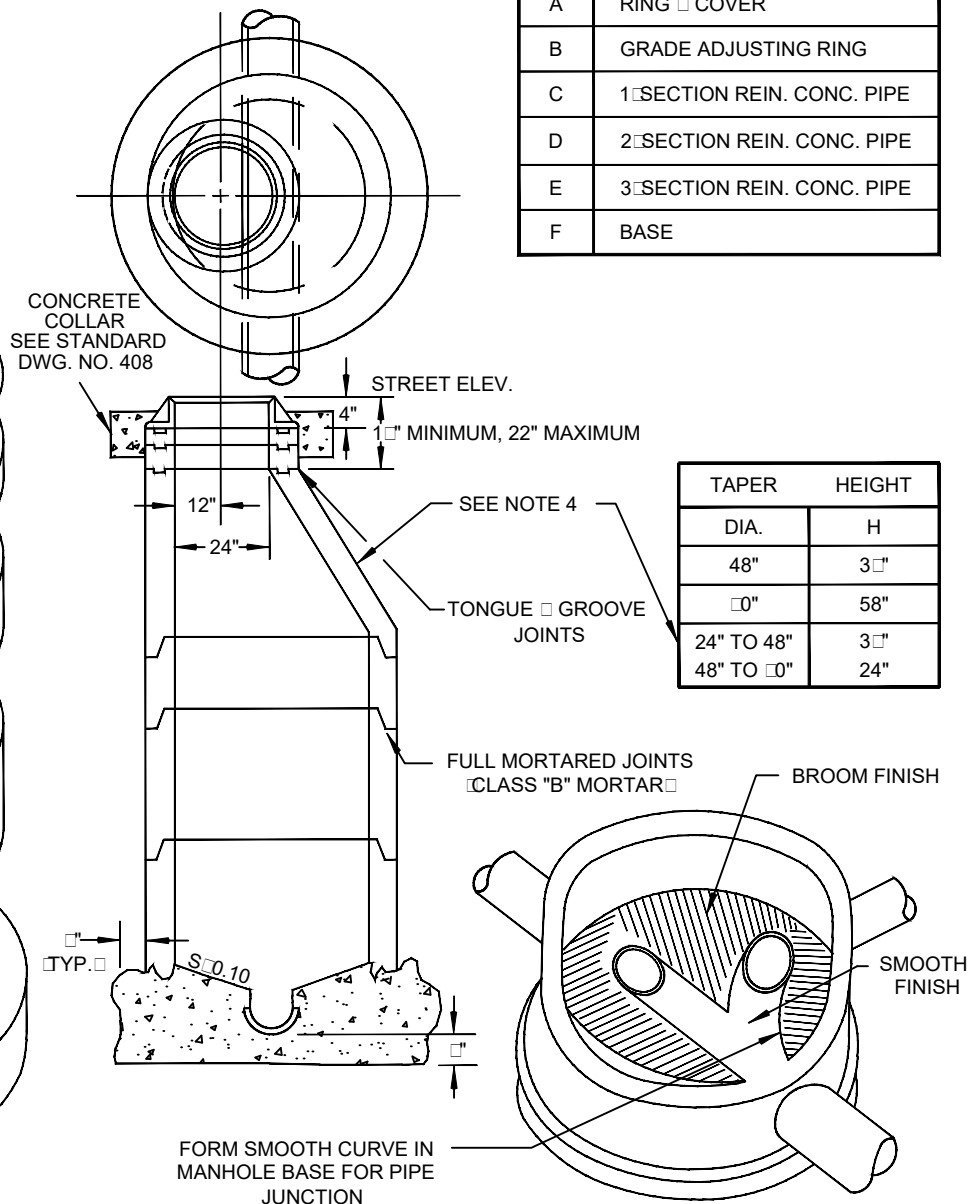
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE I MANHOLE 30 INCH RING AND COVER	
DATE 01-09-20	DWG. NO. 403.1

Effective 10/08/2020 to 12/09/2020

SYM.	ITEM
A	RING & COVER
B	GRADE ADJUSTING RING
C	1 SECTION REIN. CONC. PIPE
D	2 SECTION REIN. CONC. PIPE
E	3 SECTION REIN. CONC. PIPE
F	BASE



EXPLODED VIEW



ISOMETRIC VIEW

NOTES

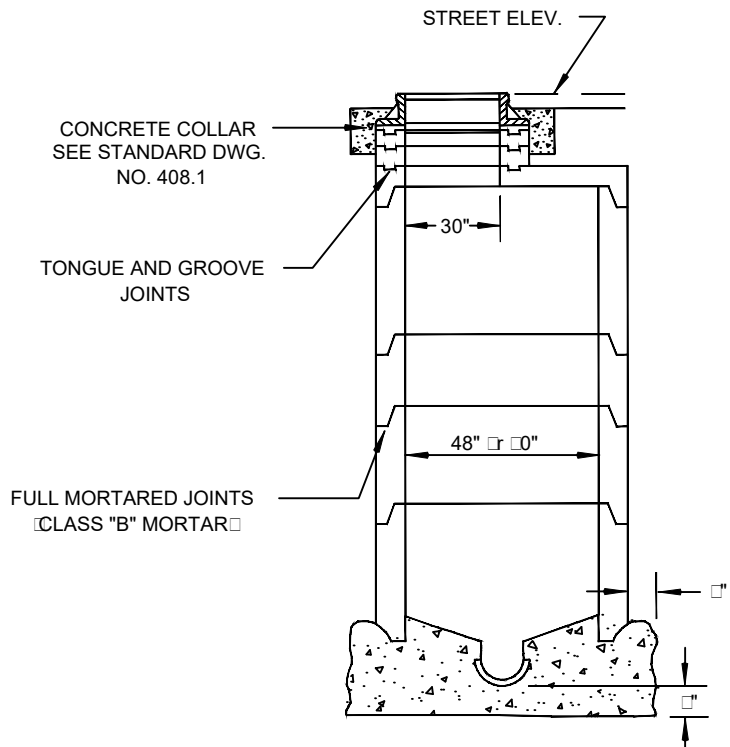
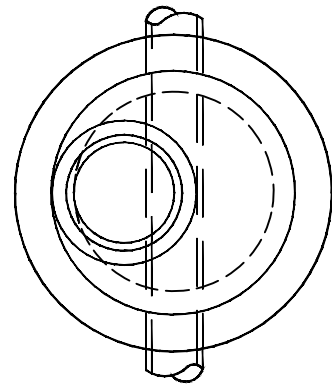
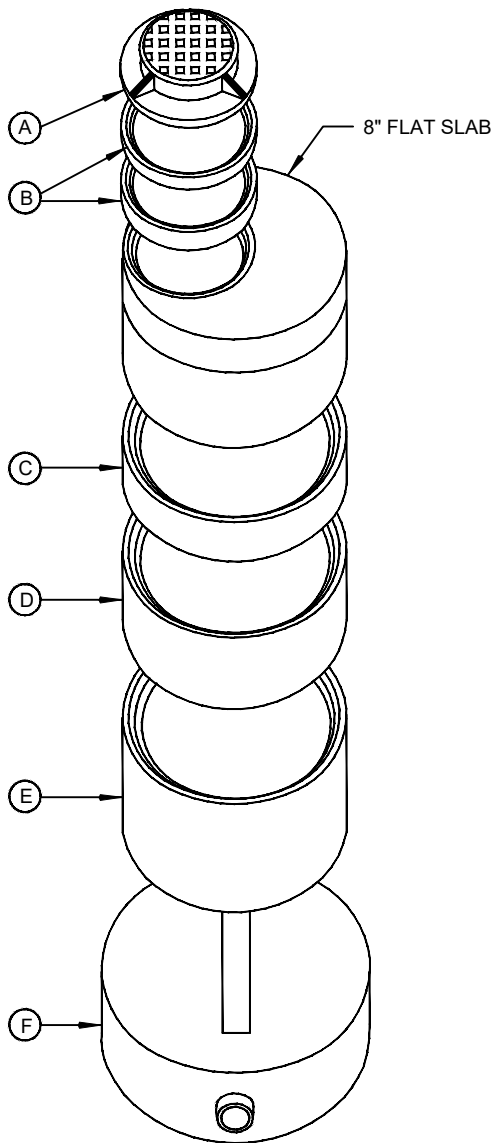
1. IN UNIMPROVED NON-TRAFFIC AREAS, TOP OF MANHOLE SHALL BE 0" TO 9" ABOVE GRADE.
2. PIPES SHALL NOT PROTRUDE MORE THAN 3" INSIDE OF MANHOLE SECTION. CONSTRUCT WATER TIGHT CONNECTION TO MANHOLE.
3. PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.
4. AN OPTIONAL TWO PIECE 24" TO 48" AND 48" TO 0" CONE MAY BE USED.
5. WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
501	CONCRETE & MORTAR
09	CATCH BASINS, MANHOLES & INLETS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE I MANHOLE	
DATE 01-09-20	DWG. NO. 403

Effective 10/08/2020 to 12/09/2020



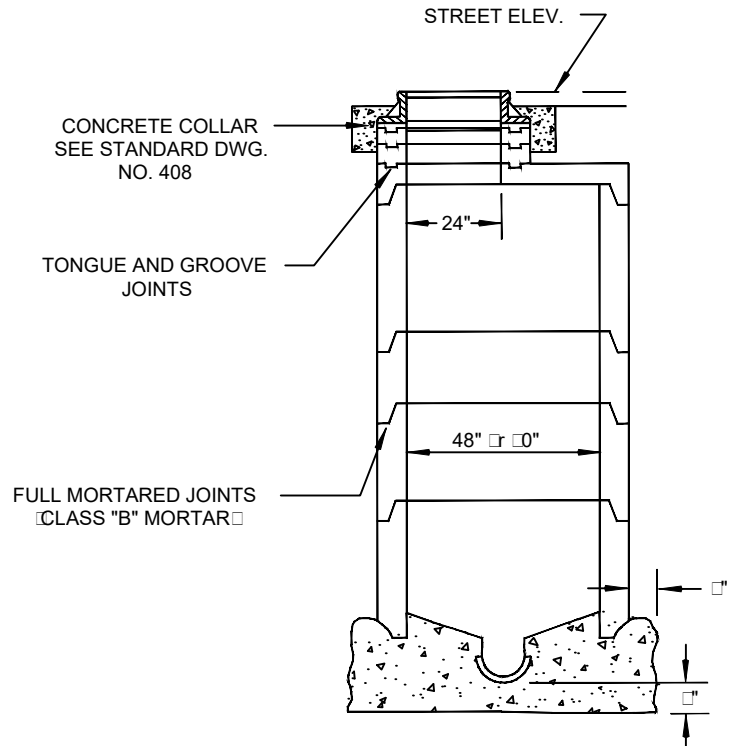
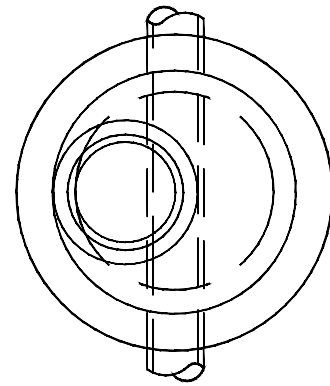
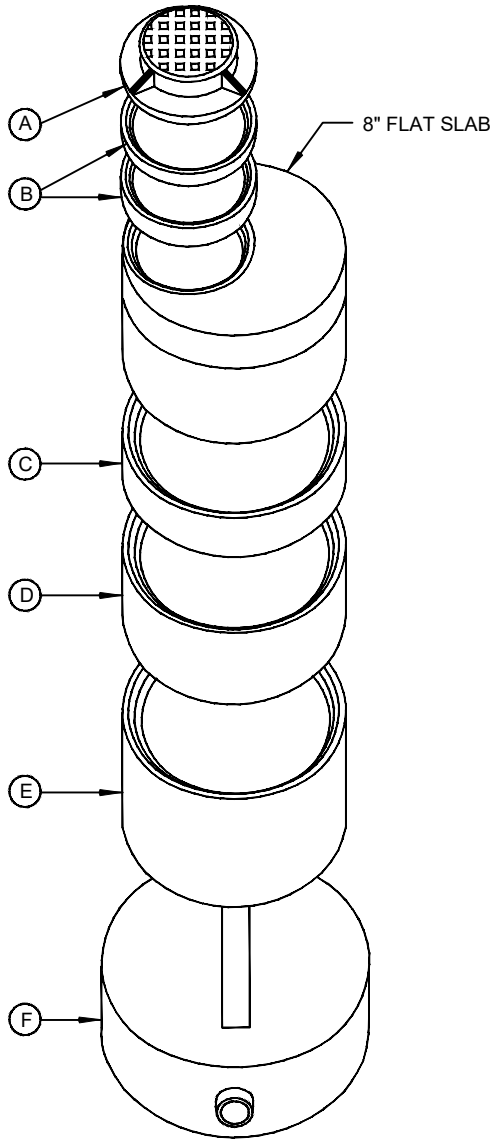
SYM.	ITEM
A	RING □ COVER
B	GRADE ADJUSTING RING
C	1 □ SECTION REIN. CONC. PIPE
D	2 □ SECTION REIN. CONC. PIPE
E	3 □ SECTION REIN. CONC. PIPE
F	BASE

NOTE

1. PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.
2. THE USE OF A 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
501	CONCRETE □ MORTAR	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
□09	CATCH BASINS, MANHOLES □ INLETS							
		TYPE IA MANHOLE 30 INCH RING AND COVER						
		DATE 11-10-05	DWG. NO.		404.1			



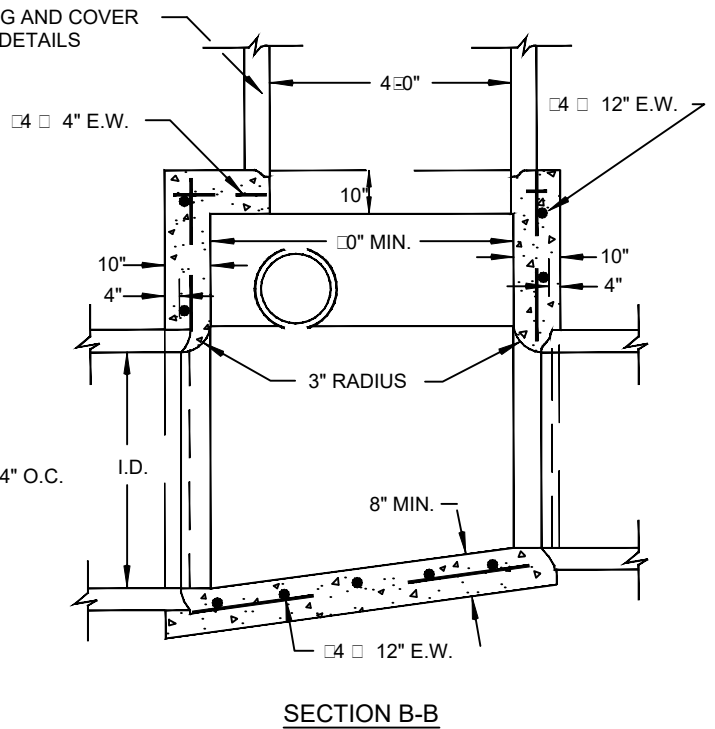
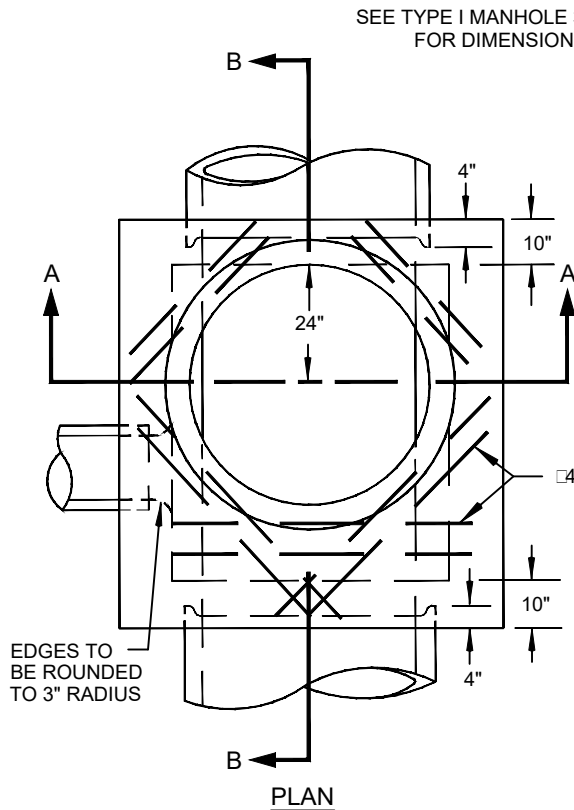
NOTE

1. PIPE SECTION LENGTHS ARRANGED TO FIT DEPTH.

SYM.	ITEM
A	RING & COVER
B	GRADE ADJUSTING RING
C	1 SECTION REIN. CONC. PIPE
D	2 SECTION REIN. CONC. PIPE
E	3 SECTION REIN. CONC. PIPE
F	BASE

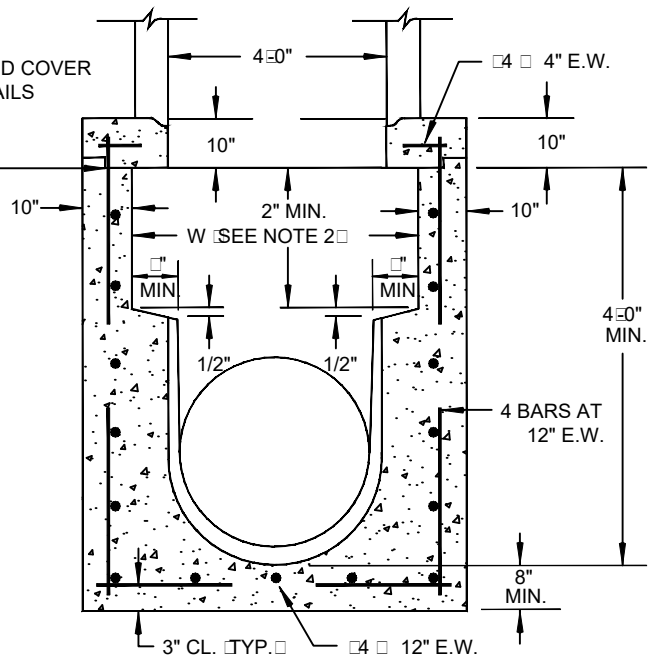
Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED					
501	CONCRETE & MORTAR	B	C	H	L	M	N
09	CATCH BASINS, MANHOLES & INLETS	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA TYPE IA MANHOLE					
		DATE 11-10-05	DWG. NO. 404				



SEE TYPE I MANHOLE 30" RING AND COVER FOR DIMENSIONS AND DETAILS

OPTIONAL CONSTRUCTION JOINT



NOTES

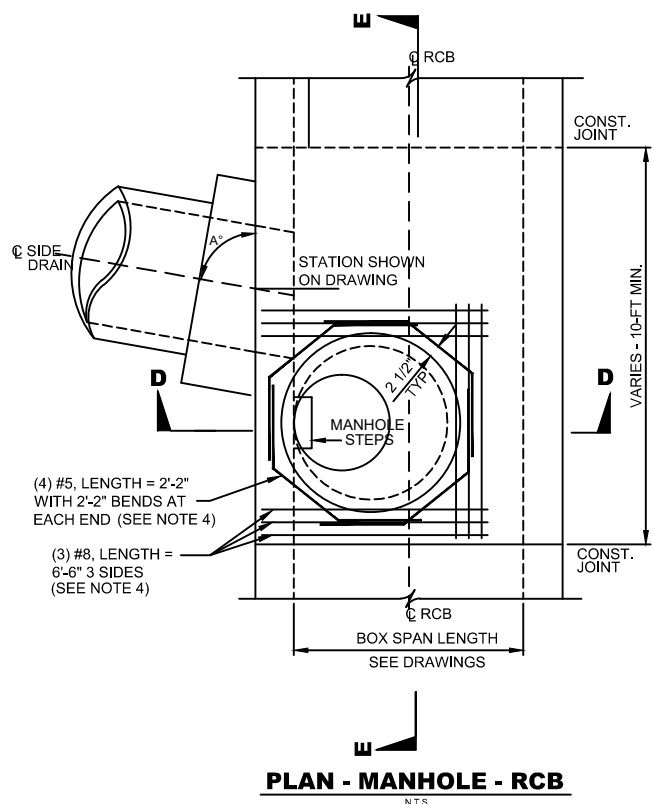
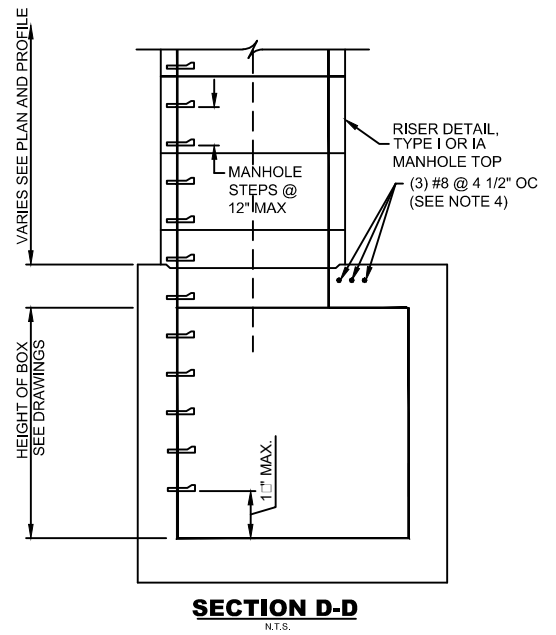
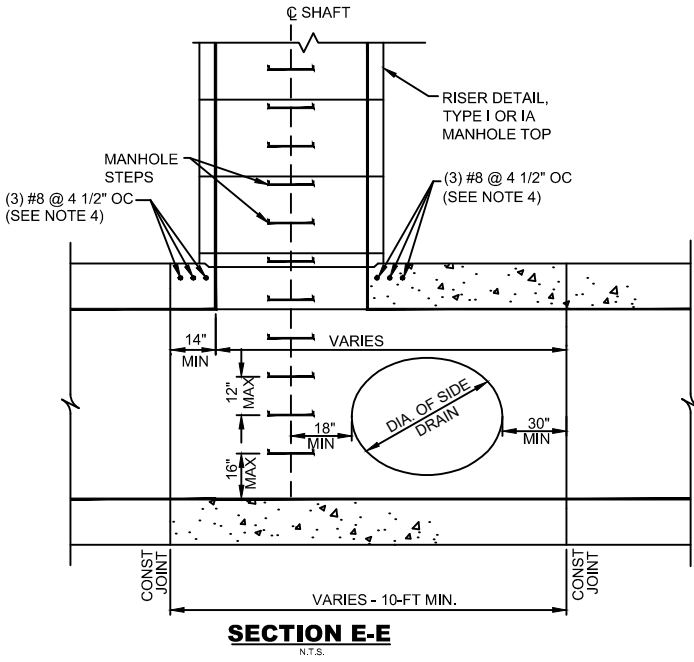
1. STEPS SHALL BE INSTALLED ON THE SIDE WALL OF THE MANHOLE.
2. W \geq I.D. + 12-INCHES MIN. BUT IN NO CASE SHALL W BE LESS THAN 10-INCHES.
3. THE USE OF A 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE	
501	CONCRETE AND MORTAR
505	REINFORCING STEEL
09	CATCH BASINS, MANHOLES & INLETS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE II MANHOLE 30 INCH RING AND COVER	
DATE 11/10/05	DWG. NO. 405.1

Effective 10/08/2020 to 12/09/2020

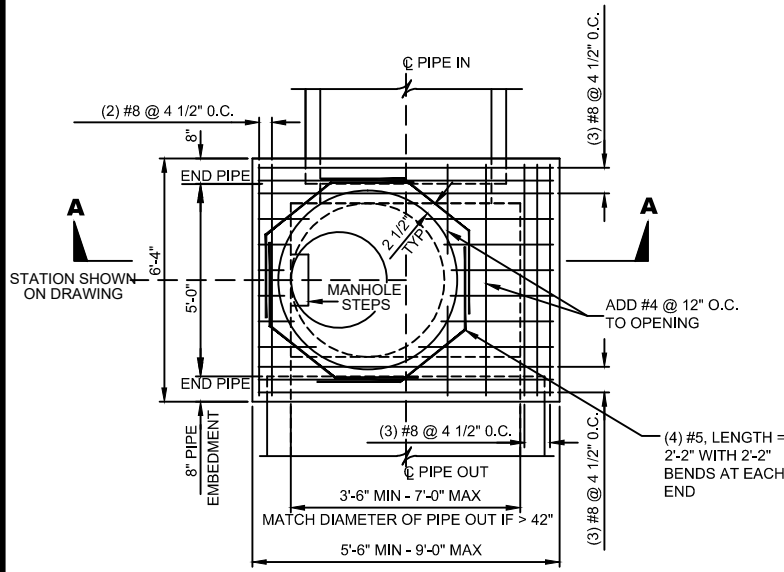


- NOTES:**
1. ALL BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM-A706 GRADE 60.
 2. CONCRETE SHALL BE MADE WITH TYPE V CEMENT IN ACCORDANCE WITH ASTM C-150. MINIMUM COMPRESSIVE 28 DAY STRENGTH = 4000 psi, MAX. SLUMP = 4"
 3. CLEARANCE TO REINFORCING BARS TO BE 2 1/2" UNLESS NOTED OTHERWISE.
 4. FOR PRECAST RCB, THE REINFORCING SHALL BE IN ACCORDANCE WITH MANUFACTURER DESIGN, AS APPROVED BY THE ENGINEER.

TYPE II-SD MANHOLE - RCB

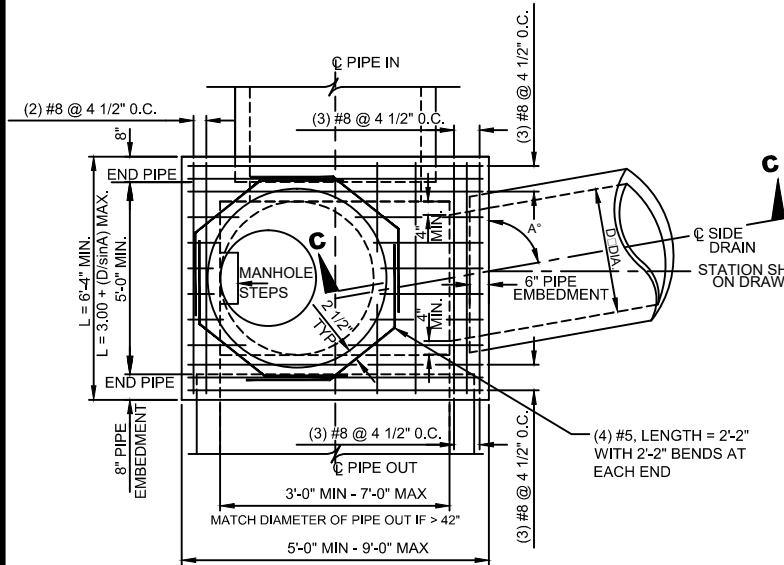
Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	TYPE II-SD MANHOLE						
	DATE 07-01-14	DWG. NO.	405.2	SHEET	1 OF 3		



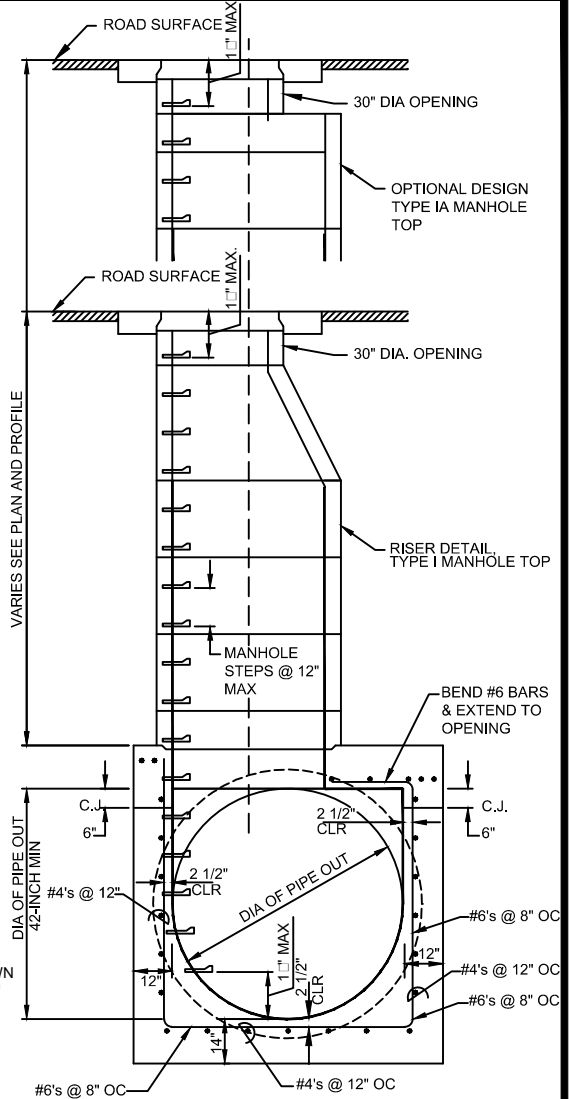
PLAN - NO SIDE DRAIN

POSITION MANHOLE ON EITHER SIDE



PLAN - SINGLE SIDE DRAIN

POSITION MANHOLE ON OPPOSITE SIDE FROM THE SIDE DRAIN



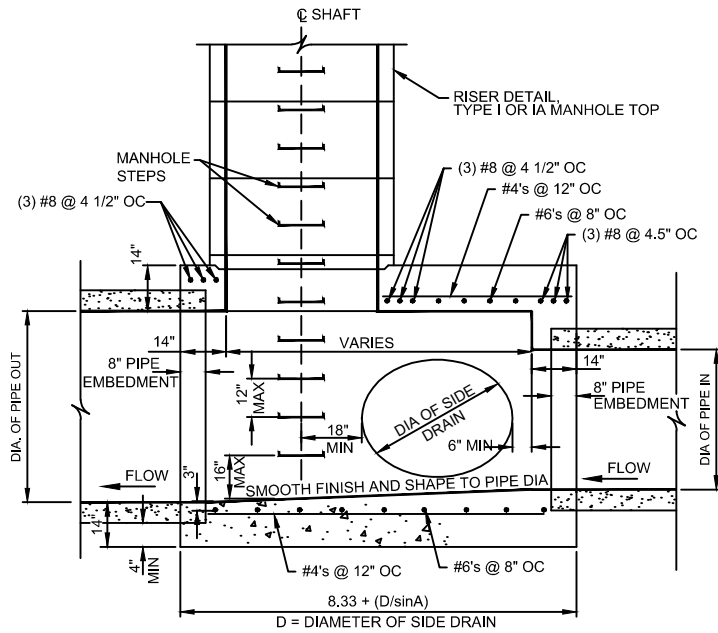
SECTION A-A

N.T.S.

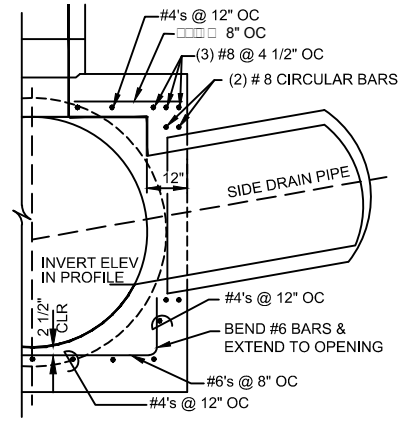
NOTES:

1. ALL BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM-A706 GRADE 60.
2. CONCRETE SHALL BE MADE WITH TYPE V CEMENT IN ACCORDANCE WITH ASTM C-150. MINIMUM COMPRESSIVE 28 DAY STRENGTH = 4000 psi, MAX. SLUMP = 4"
3. CLEARANCE TO REINFORCING BARS TO BE 2 1/2" UNLESS NOTED OTHERWISE.
4. THIS DESIGN IS FOR PIPE SIZES 36-INCH TO 72-INCH. LARGER PIPE SIZES REQUIRES SPECIAL DESIGN.

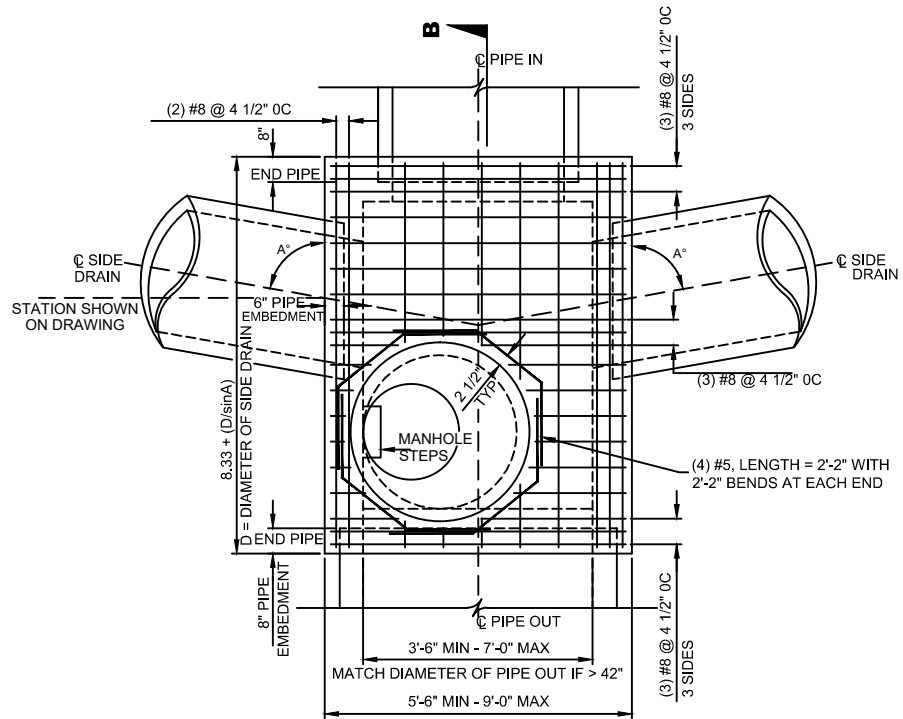
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SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	TYPE II-SD MANHOLE						
	DATE 07-01-14	DWG. NO.	405.2	SHEET	2 OF 3		



SECTION B-B
N.T.S.



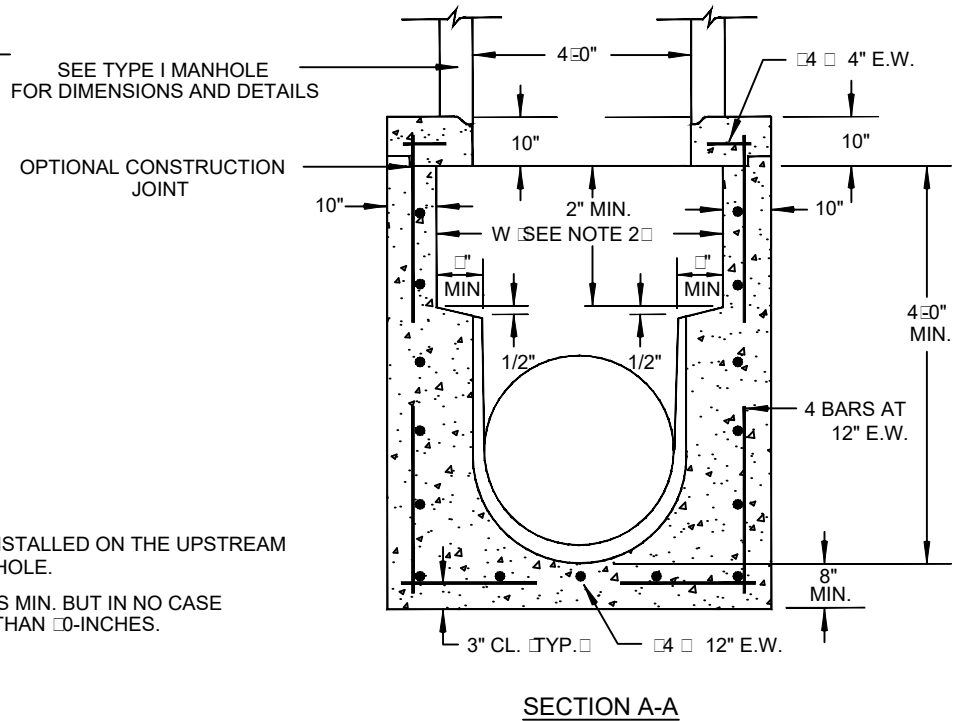
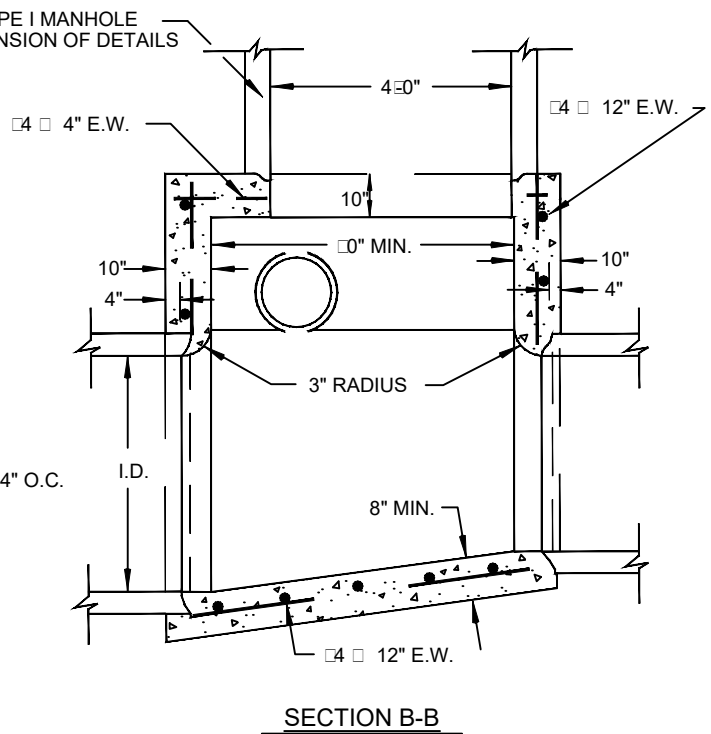
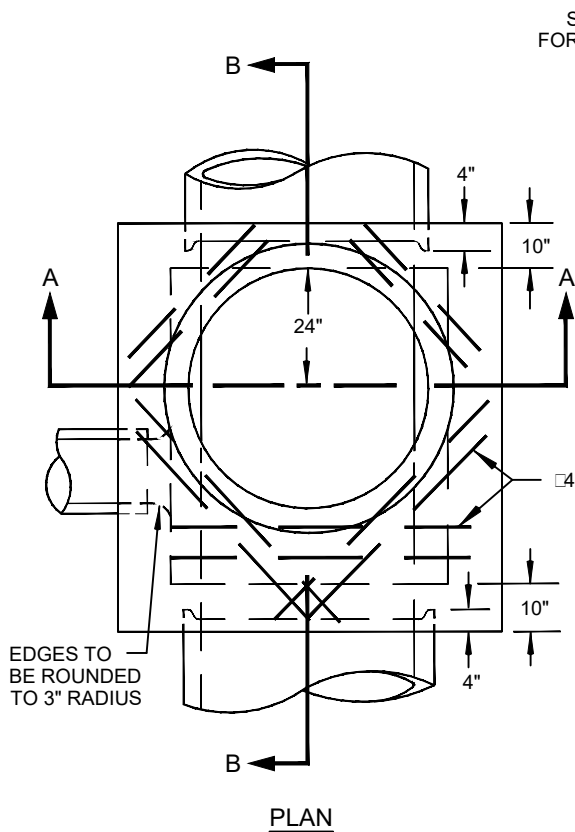
SECTION C-C
N.T.S.



PLAN - DOUBLE SIDE DRAIN
N.T.S.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	TYPE II-SD MANHOLE						
	DATE 07-01-14	DWG. NO.	405.2	SHEET	3 OF 3		

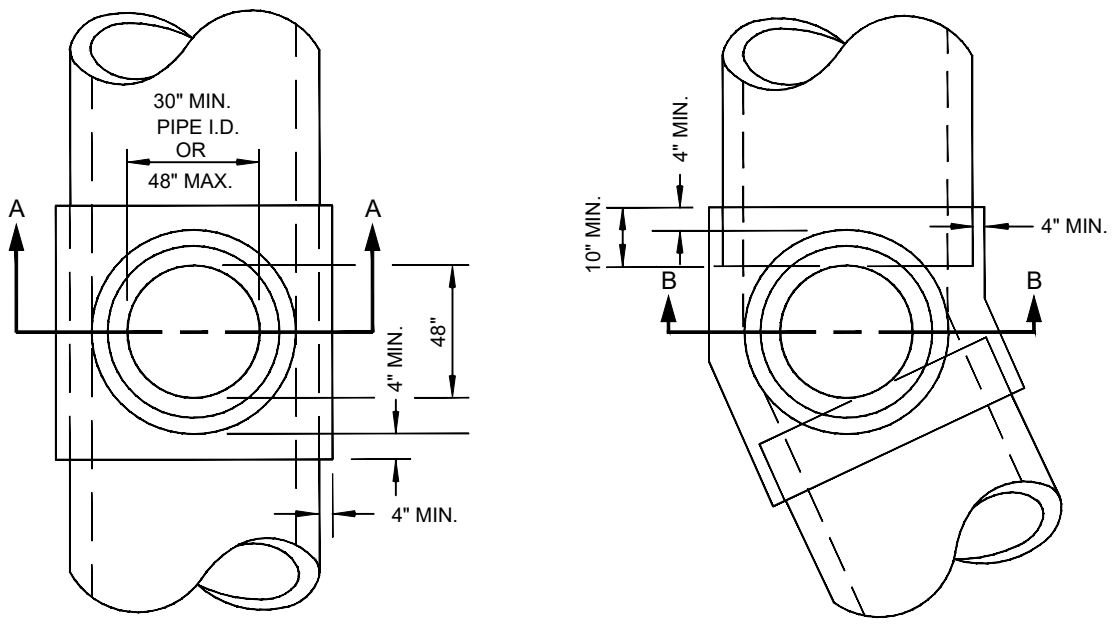


NOTES

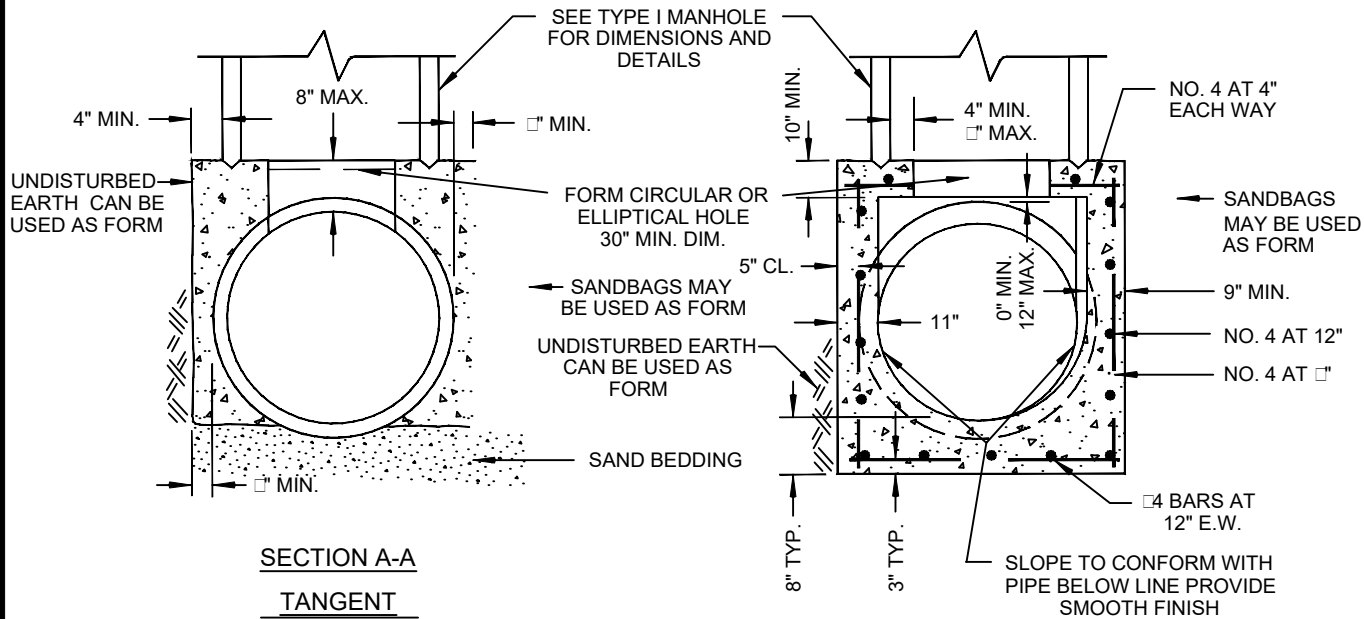
1. STEPS SHALL BE INSTALLED ON THE UPSTREAM WALL OF THE MANHOLE.
2. W \geq I.D. + 12-INCHES MIN. BUT IN NO CASE SHALL W BE LESS THAN 10-INCHES.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
501	CONCRETE AND MORTAR	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
505	REINFORCING STEEL							
09	CATCH BASINS, MANHOLES & INLETS	TYPE II MANHOLE						
DATE	DWG. NO.	405						



PLAN

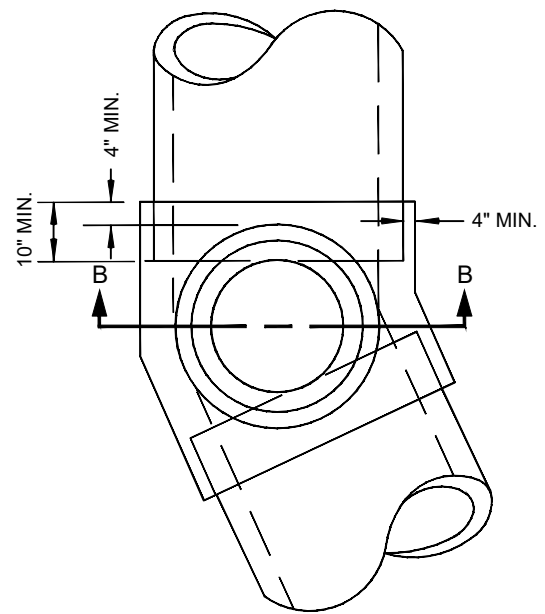
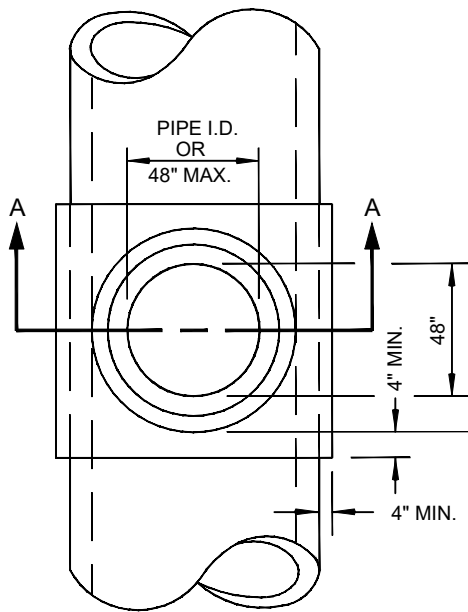


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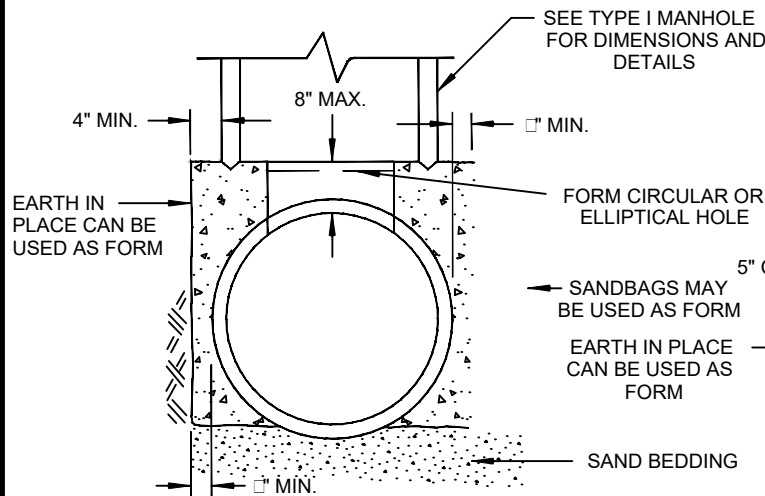
1. STEPS SHALL BE INSTALLED ON THE UPSTREAM WALL OF THE MANHOLE.
2. THE USE OF A 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.

Effective 10/08/2020 to 12/09/2020

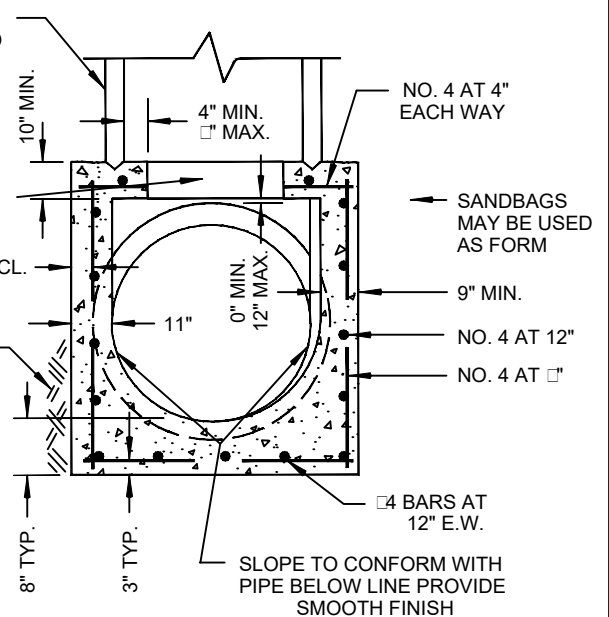
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SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
501	CONCRETE	TYPE III MANHOLE 30 INCH RING AND COVER						
505	REINFORCING STEEL							
09	CATCH BASINS, MANHOLES INLETS							
		DATE 11-10-05	DWG. NO.	40	1			



PLAN



SECTION A-A
TANGENT



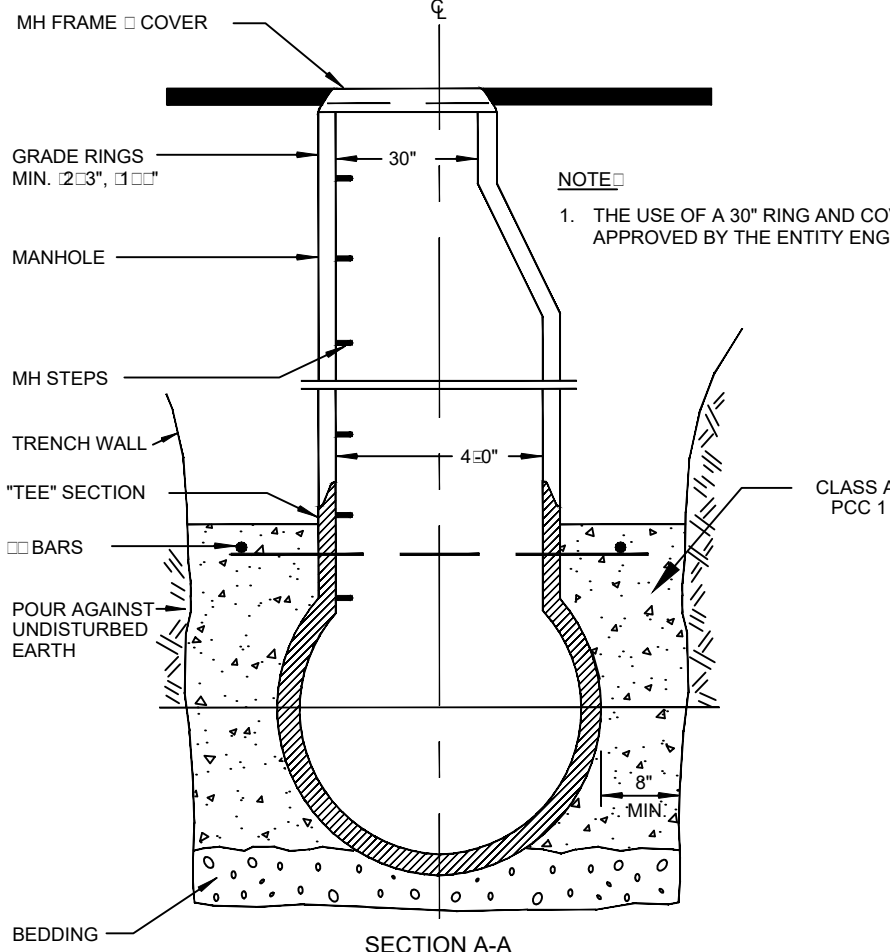
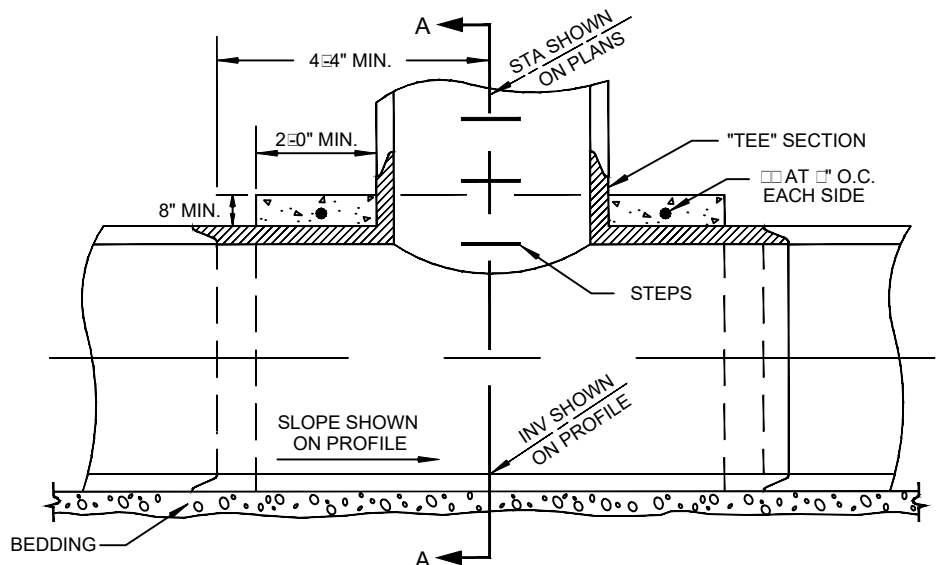
SECTION B-B
ANGLE POINT

NOTE

1. STEPS SHALL BE INSTALLED ON THE UPSTREAM WALL OF THE MANHOLE.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
501	CONCRETE	TYPE III MANHOLE					
505	REINFORCING STEEL						
09	CATCH BASINS, MANHOLES INLETS						
DATE	DWG. NO.	40					

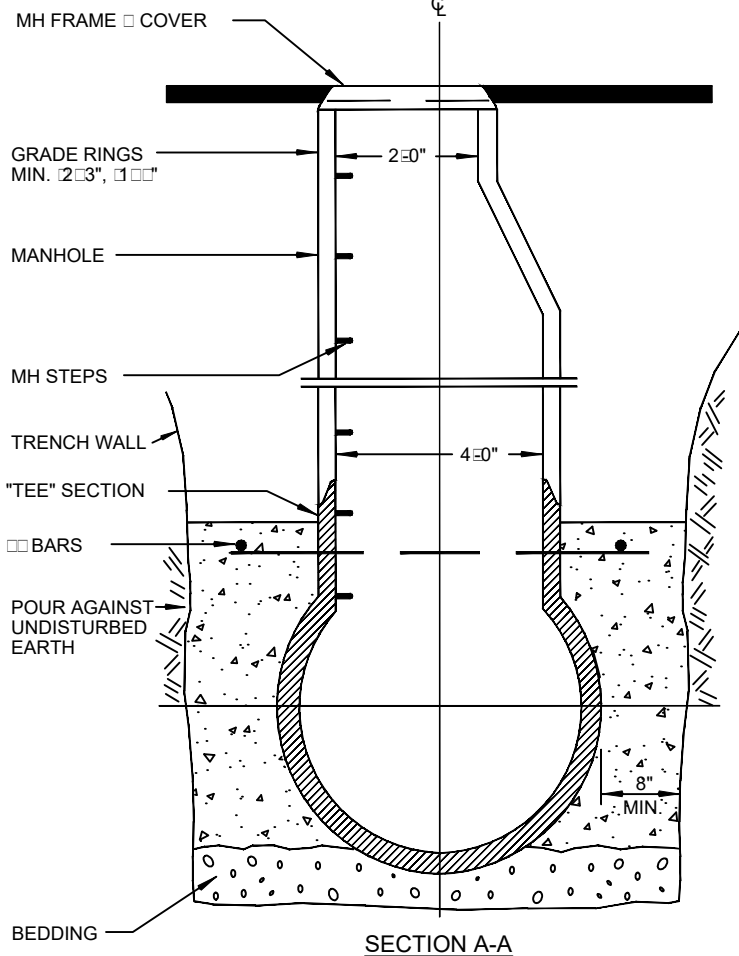
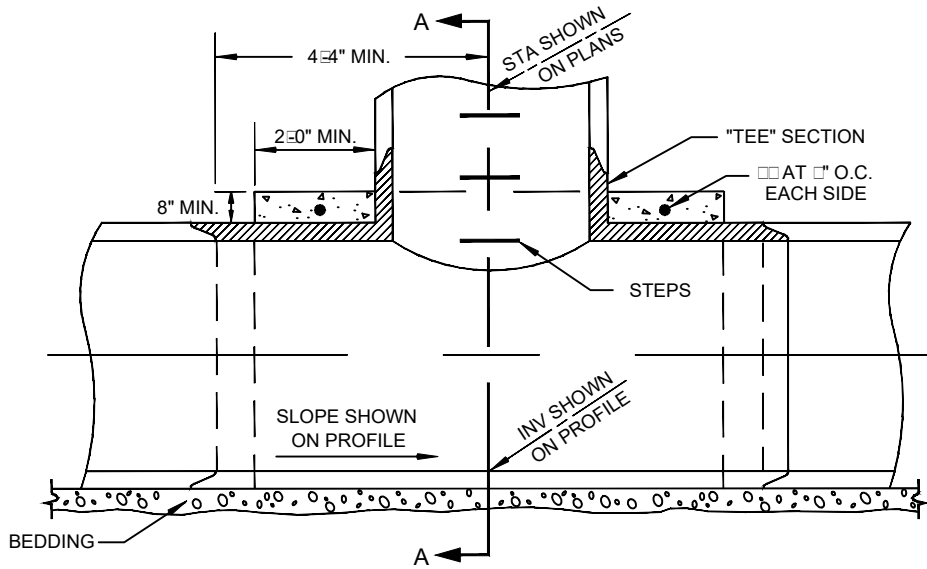


NOTE
 1. THE USE OF A 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.

SECTION A-A

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
501	CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
#09	CATCH BASINS, MANHOLES & INLETS	PRECAST MANHOLE TEES 30 INCH RING AND COVER						
		DATE 11-10-05	DWG. NO.	407.1				



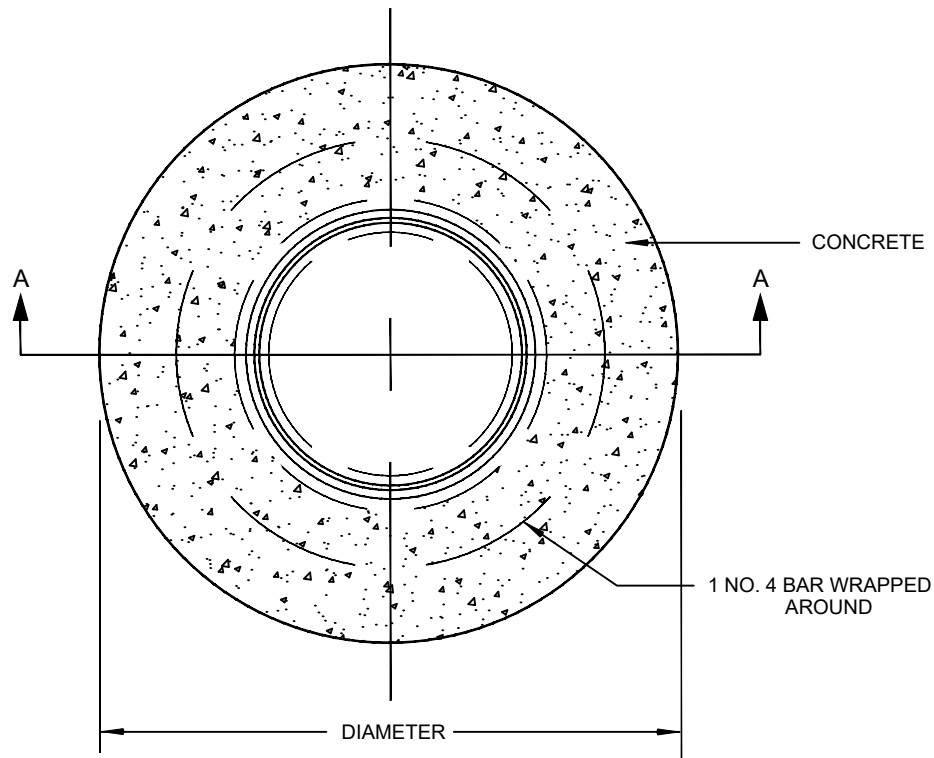
SECTION A-A

AGENCY APPROVED	B	C	H	L	M	N
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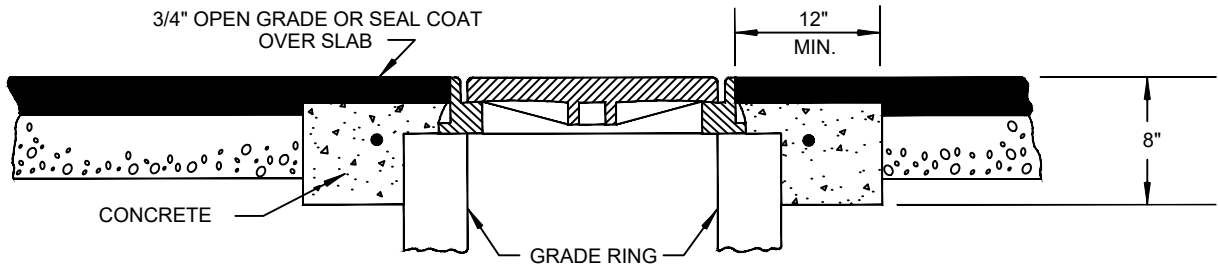
SPECIFICATION REFERENCE	
501	CONCRETE
09	CATCH BASINS, MANHOLES & INLETS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
PRECAST MANHOLE TEES	
DATE	DWG. NO. 407

Effective 10/08/2020 to 12/09/2020



PLAN



SECTION A-A

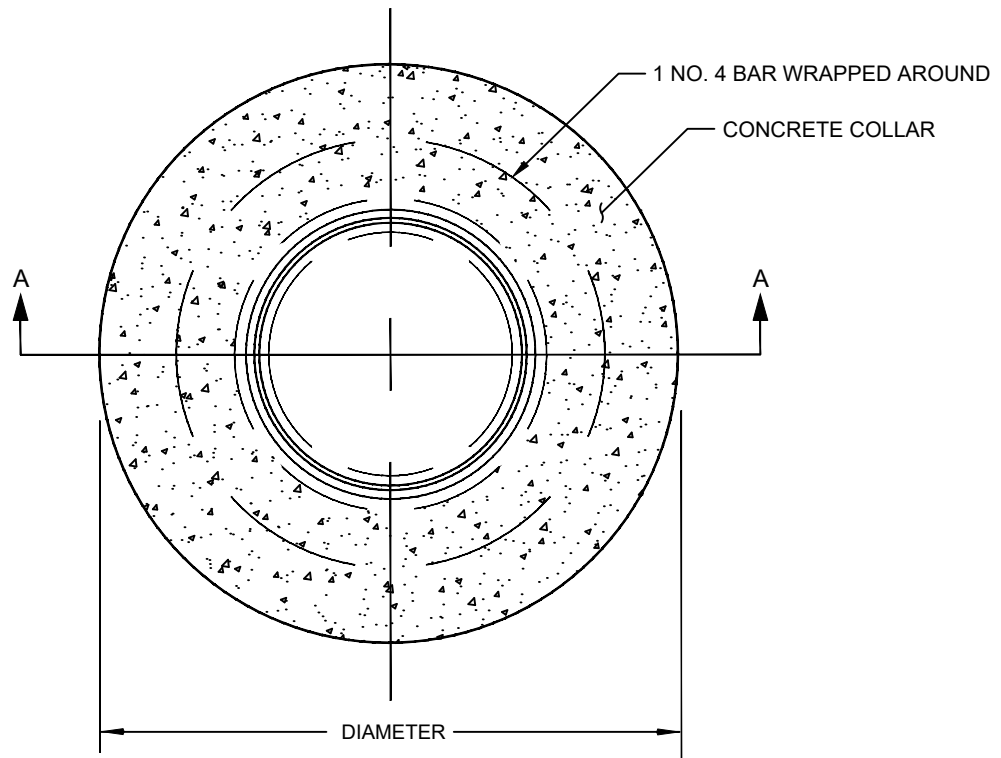
NOTES

1. CONCRETE COLLAR TO BE CONSTRUCTED 1/8" BELOW SURFACE OF DENSE GRADE WHERE OPEN GRADE IS NOT USED.
2. CONCRETE COLLAR NOT REQUIRED IN UNINCORPORATED CLARK COUNTY RESIDENTIAL STREETS LESS THAN 80' R/W WIDTH.
3. THE USE OF 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.
4. WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

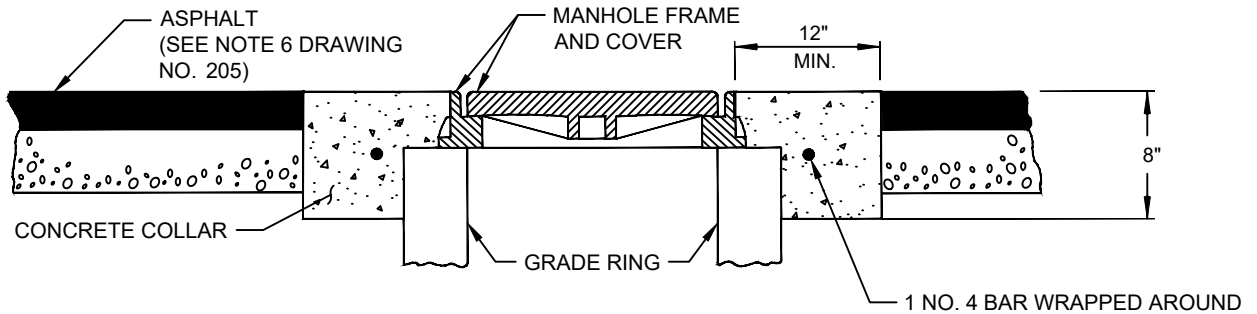
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
501	CONCRETE
505	REINFORCING STEEL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
CONCRETE COLLAR AROUND MANHOLES 30 INCH RING AND COVER	
DATE 01-09-20	DWG. NO. 408.1



PLAN



SECTION A-A

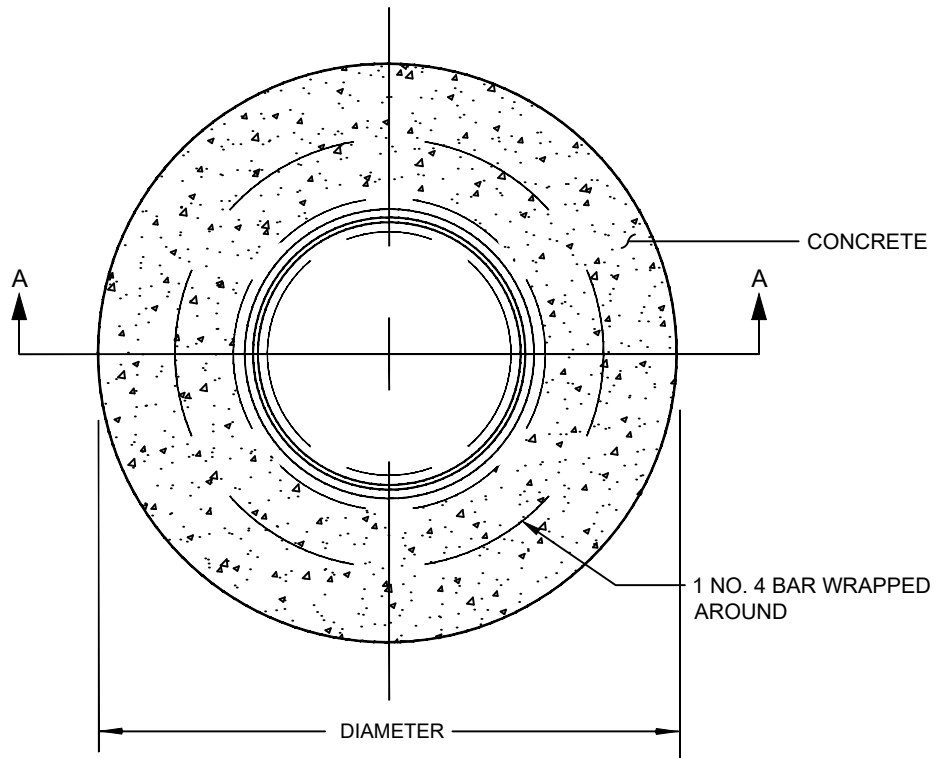
NOTES

1. CONCRETE COLLAR, FRAME, AND COVER SHALL BE CONSTRUCTED 1/8" BELOW THE ADJACENT SURFACE, $\pm 1/16"$.
2. CONCRETE COLLAR NOT REQUIRED IN UNINCORPORATED CLARK COUNTY RESIDENTIAL STREETS LESS THAN 80' R/W WIDTH.
3. IF MANHOLE IS MORE THAN 1-1/2" ABOVE OR BELOW THE ADJACENT ROADWAY SURFACE, MANHOLE SHALL BE ADJUSTED TO GRADE BY UTILITY OWNER.
4. IF MANHOLE IS MORE THAN 1/4" ABOVE OR BELOW THE ADJACENT ROADWAY SURFACE IN A BICYCLE LANE, MANHOLE SHALL BE ADJUSTED TO GRADE BY UTILITY OWNER.
5. THE USE OF 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.
6. WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

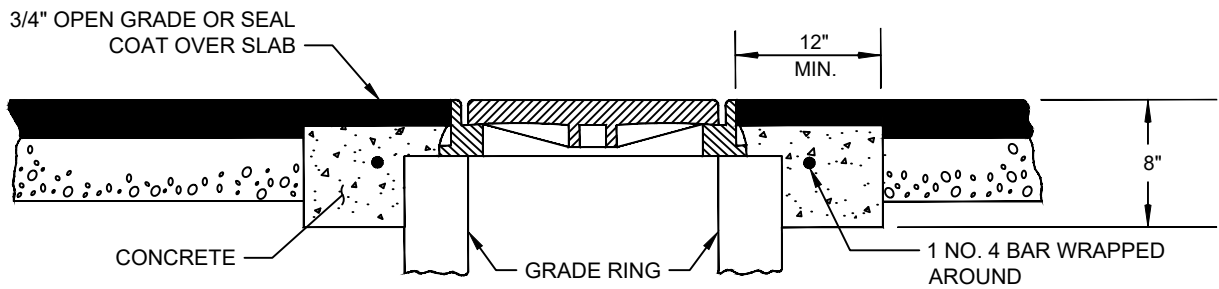
AGENCY APPROVED					L		
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SPECIFICATION REFERENCE	
501	CONCRETE
505	REINFORCING STEEL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SUPPLEMENTAL DRAWING	
CONCRETE COLLAR AROUND MANHOLES 30 INCH RING AND COVER	
DATE 01-09-20	DWG. NO. 408.1.S1




PLAN



SECTION A-A

NOTES

1. CONCRETE COLLAR TO BE CONSTRUCTED 1/8" BELOW SURFACE OF DENSE GRADE WHERE OPEN GRADE IS NOT USED.
2. CONCRETE COLLAR NOT REQUIRED IN UNINCORPORATED CLARK COUNTY RESIDENTIAL STREETS LESS THAN 80' R/W WIDTH.
3. WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

AGENCY APPROVED B  H L M N R

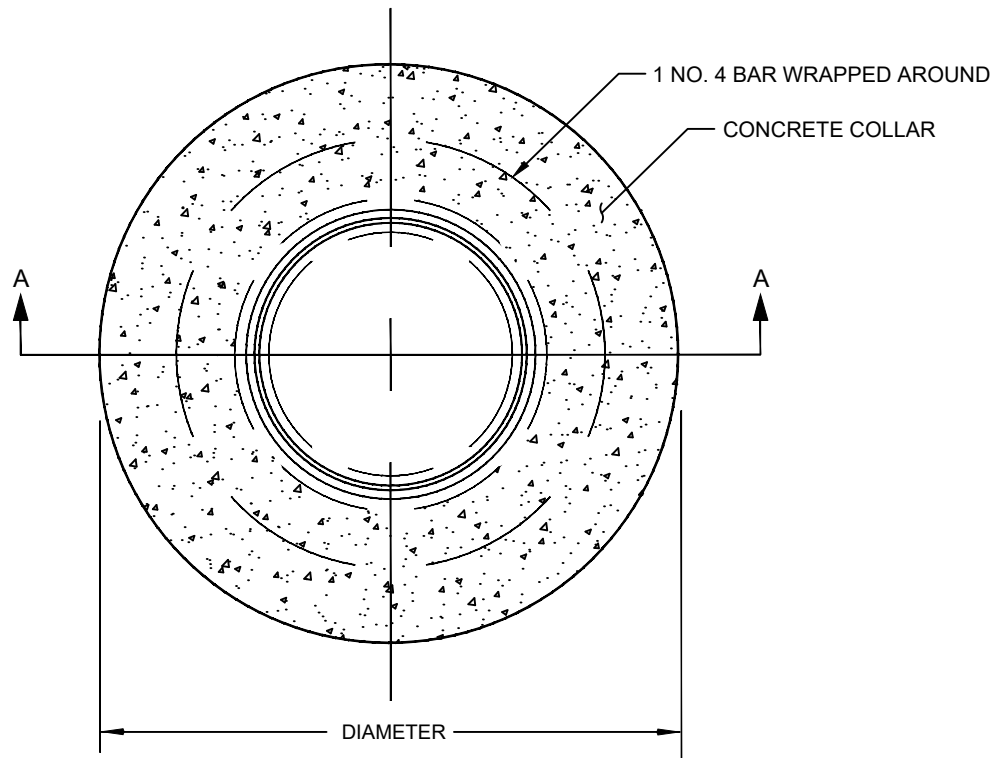
SPECIFICATION REFERENCE

501	CONCRETE
505	REINFORCING STEEL

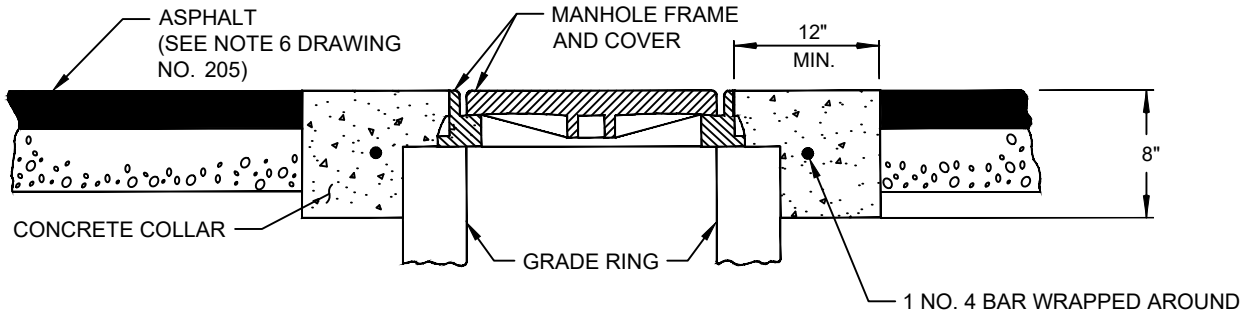
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CONCRETE COLLAR AROUND
MANHOLES

DATE 01-09-20 DWG. NO. 408



PLAN



SECTION A-A

NOTES

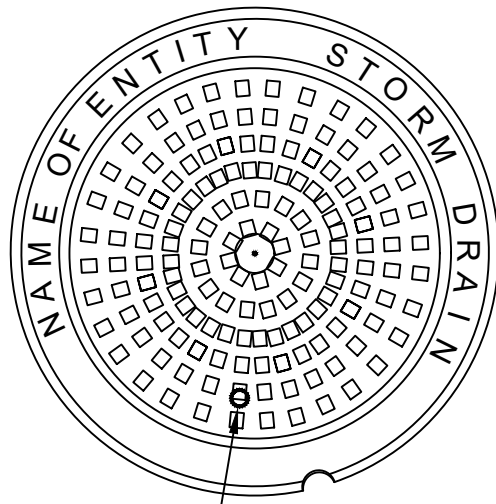
1. CONCRETE COLLAR, FRAME, AND COVER SHALL BE CONSTRUCTED 1/8" BELOW THE ADJACENT SURFACE, $\pm 1/16"$.
2. CONCRETE COLLAR NOT REQUIRED IN UNINCORPORATED CLARK COUNTY RESIDENTIAL STREETS LESS THAN 80' R/W WIDTH.
3. IF MANHOLE IS MORE THAN 1-1/2" ABOVE OR BELOW THE ADJACENT ROADWAY SURFACE, MANHOLE SHALL BE ADJUSTED TO GRADE BY UTILITY OWNER.
4. IF MANHOLE IS MORE THAN 1/4" ABOVE OR BELOW THE ADJACENT ROADWAY SURFACE IN A BICYCLE LANE, MANHOLE SHALL BE ADJUSTED TO GRADE BY UTILITY OWNER.
5. WHEN INSTALLED WITHIN PEDESTRIAN ACCESS ROUTES, TOP OF MANHOLE COVERS SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SURFACE, HAVE NO GAPS GREATER THAN 1/2" REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

AGENCY APPROVED						L			
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SPECIFICATION REFERENCE	
501	CONCRETE
505	REINFORCING STEEL

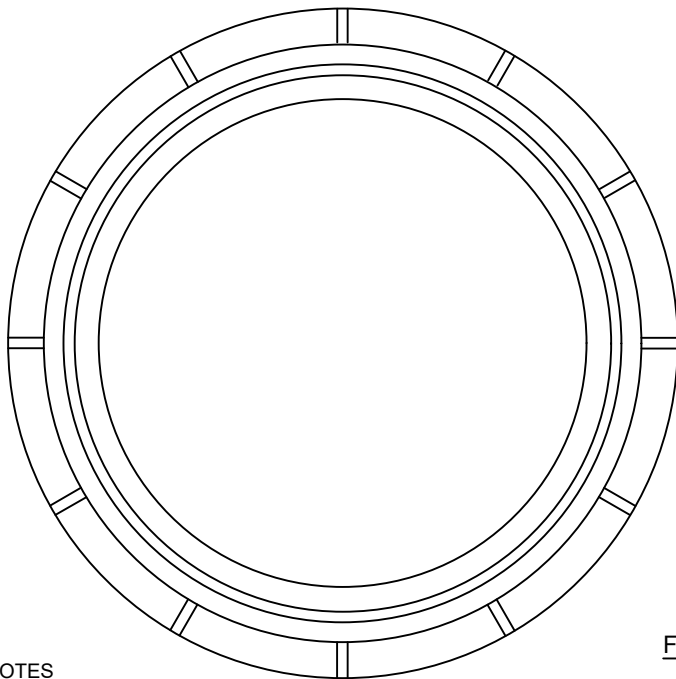
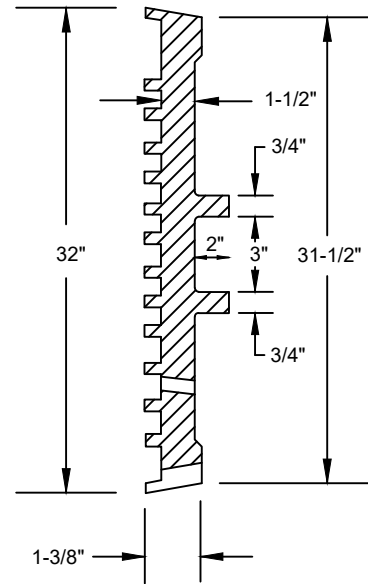
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
SUPPLEMENTAL DRAWING	
CONCRETE COLLAR AROUND MANHOLES	
DATE 01-09-20	DWG. NO. 408.S1

Effective 10/08/2020 to 12/09/2020

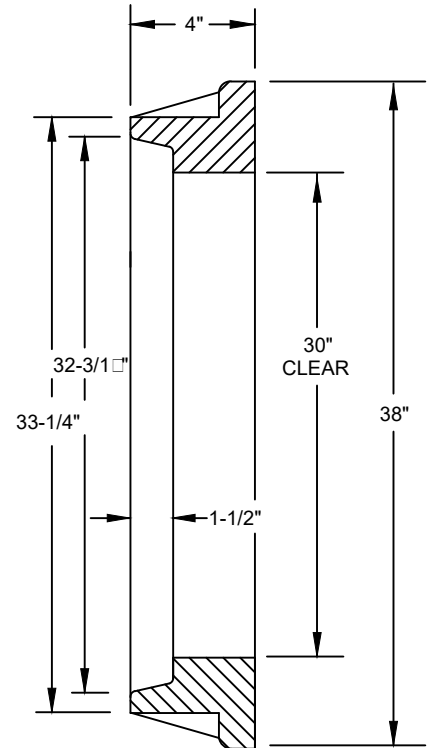


1" DIA. VENT HOLE

COVER



FRAME



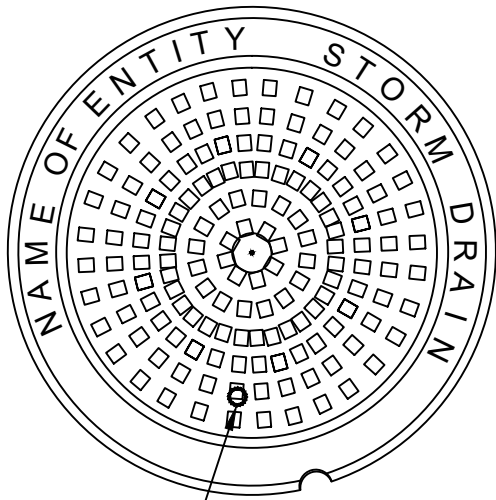
NOTES

1. FRAME AND COVER TO BE ALHAMBRA FOUNDRY COMPANY TYPE A1252B IN ACCORDANCE WITH ASTM A-48, CLASS 30, OR APPROVED EQUAL.
2. CAST IRON SHALL HAVE MINIMUM TENSILE STRENGTH OF 30,000 P.S.I.
3. FRAME AND COVER MACHINED TO FIT.
4. WEIGHT OF FRAME AND COVER 330 LBS. MINIMUM.
5. THE USE OF A 30" RING AND COVER SHALL BE APPROVED BY THE ENTITY ENGINEER.

AGENCY APPROVED	B	C	H	L	M	N	R
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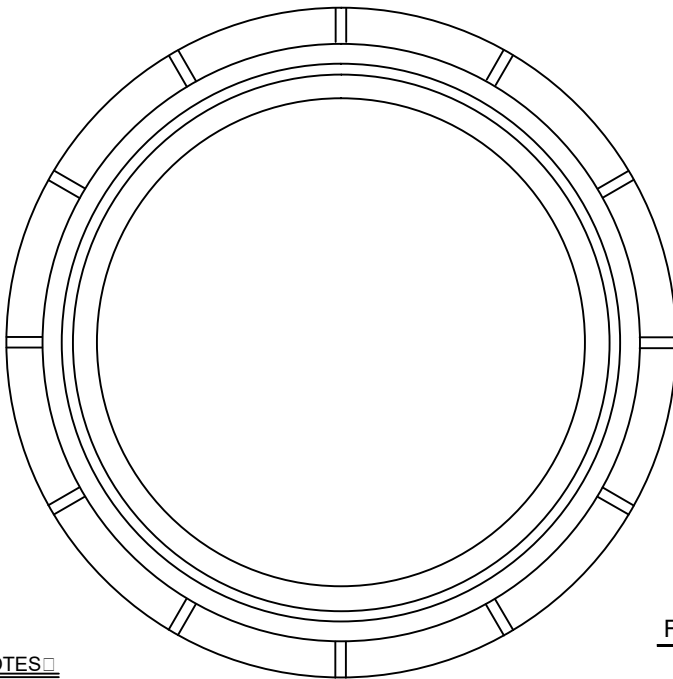
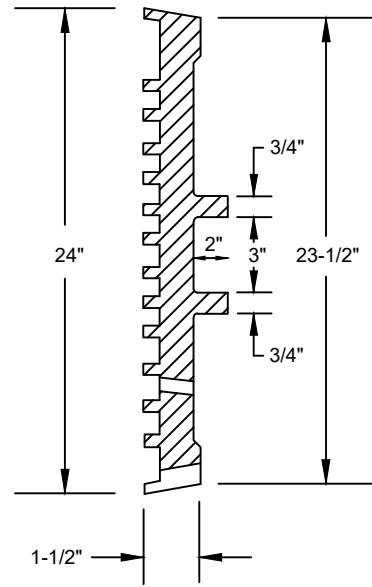
SPECIFICATION REFERENCE	
712	MISCELLANEOUS METALS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
STANDARD MANHOLE 30 INCH COVER AND RING	
DATE 10/08/20	DWG. NO. 409.1

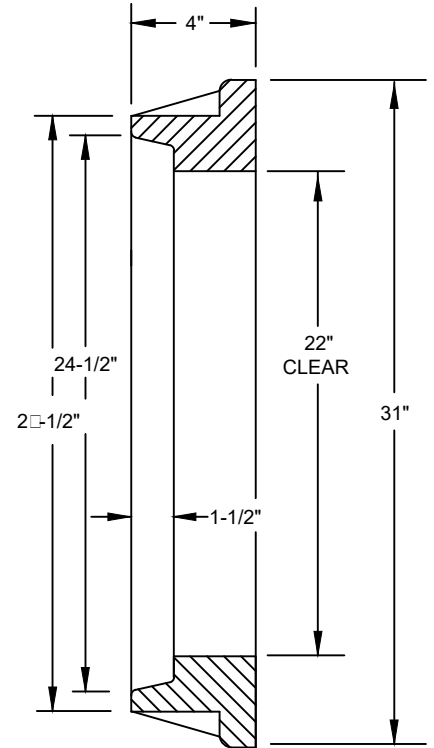


1" DIA. VENT HOLE

COVER



FRAME

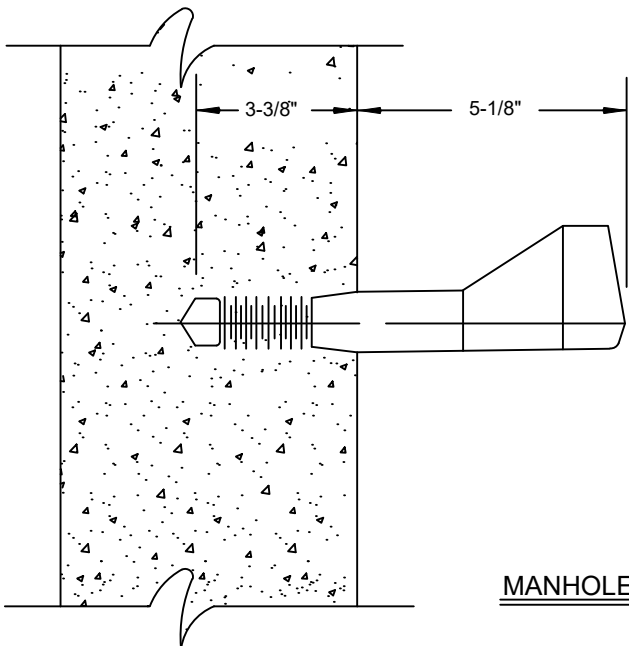
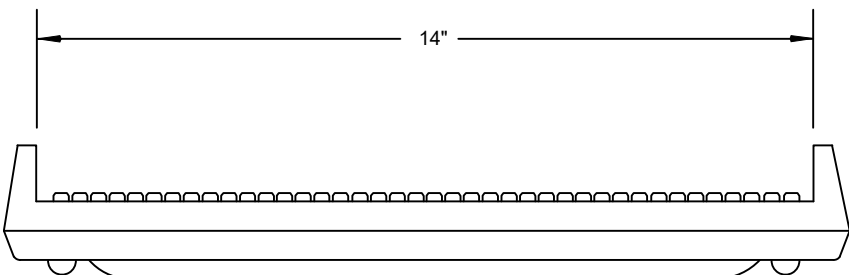
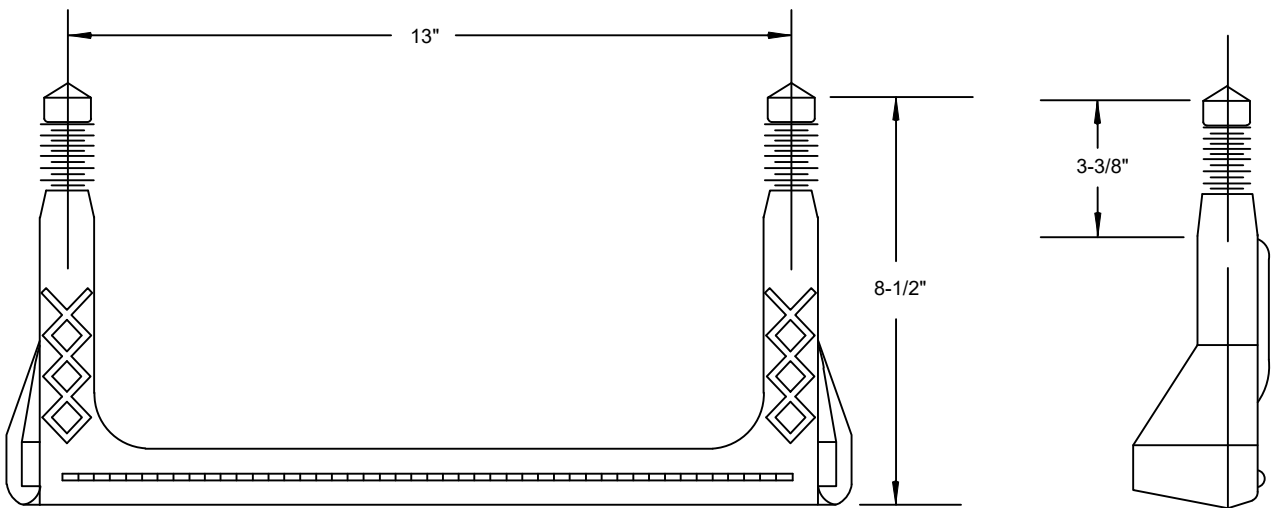


NOTES

1. FRAME AND COVER TO BE ALHAMBRA FOUNDRY COMPANY TYPE A1310 IN ACCORDANCE WITH ASTM A-48, CLASS 30, OR APPROVED EQUAL.
2. CAST IRON SHALL HAVE MINIMUM TENSILE STRENGTH OF 30,000 P.S.I.
3. FRAME AND COVER MACHINED TO FIT.
4. WEIGHT OF FRAME AND COVER 330 LBS. MINIMUM.

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
STANDARD MANHOLE COVER AND RING							
DATE		DWG. NO. 409					

SPECIFICATION REFERENCE	
712	MISCELLANEOUS METALS



NOTES

1. MANHOLE STEP SHALL CONFORM TO A.S.T.M. C-478 AND C-497.
2. ALUMINUM STEPS SHALL BE SOLID, MADE FROM MATERIAL IN CONFORMANCE WITH A.S.T.M. B221 ALLOY 6005-TS
3. REINFORCED PLASTIC STEPS SHALL BE POLYPROPYLENE PLASTIC, WITH NO. 3 MIN. DEFORMED STEEL ROD GRADE 60/A.S.T.M. A-15
4. STEPS SHALL BE EVENLY SPACED FROM 12" TO 18".
5. ALL STEPS MUST BE EPOXIED IN PLACE DURING THE INSTALLATION PROCESS.

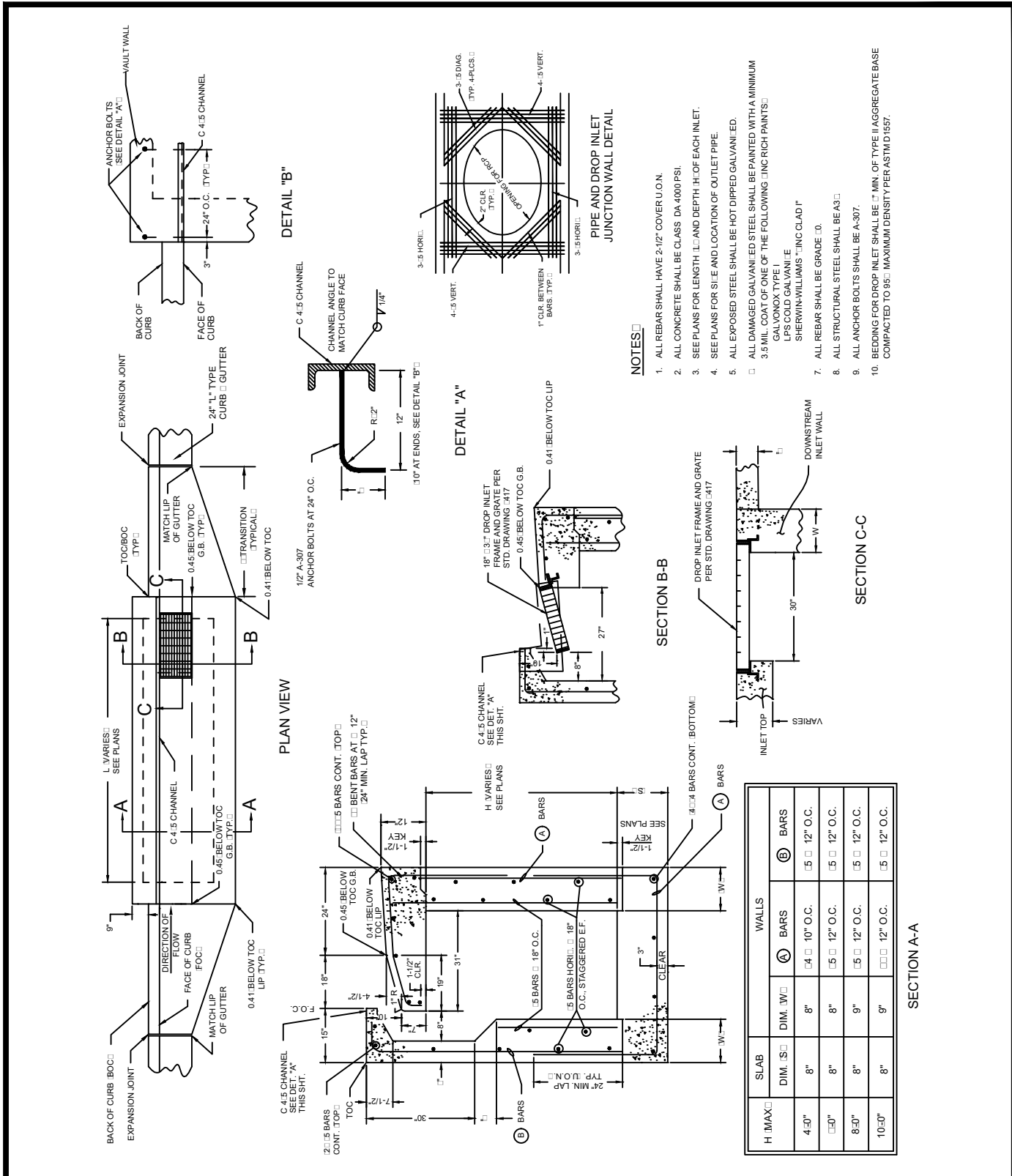
MANHOLE STEPS

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
STANDARD MANHOLE STEPS	
DATE 3-11-04	DWG. NO. 410

Effective 10/08/2020 to 12/09/2020



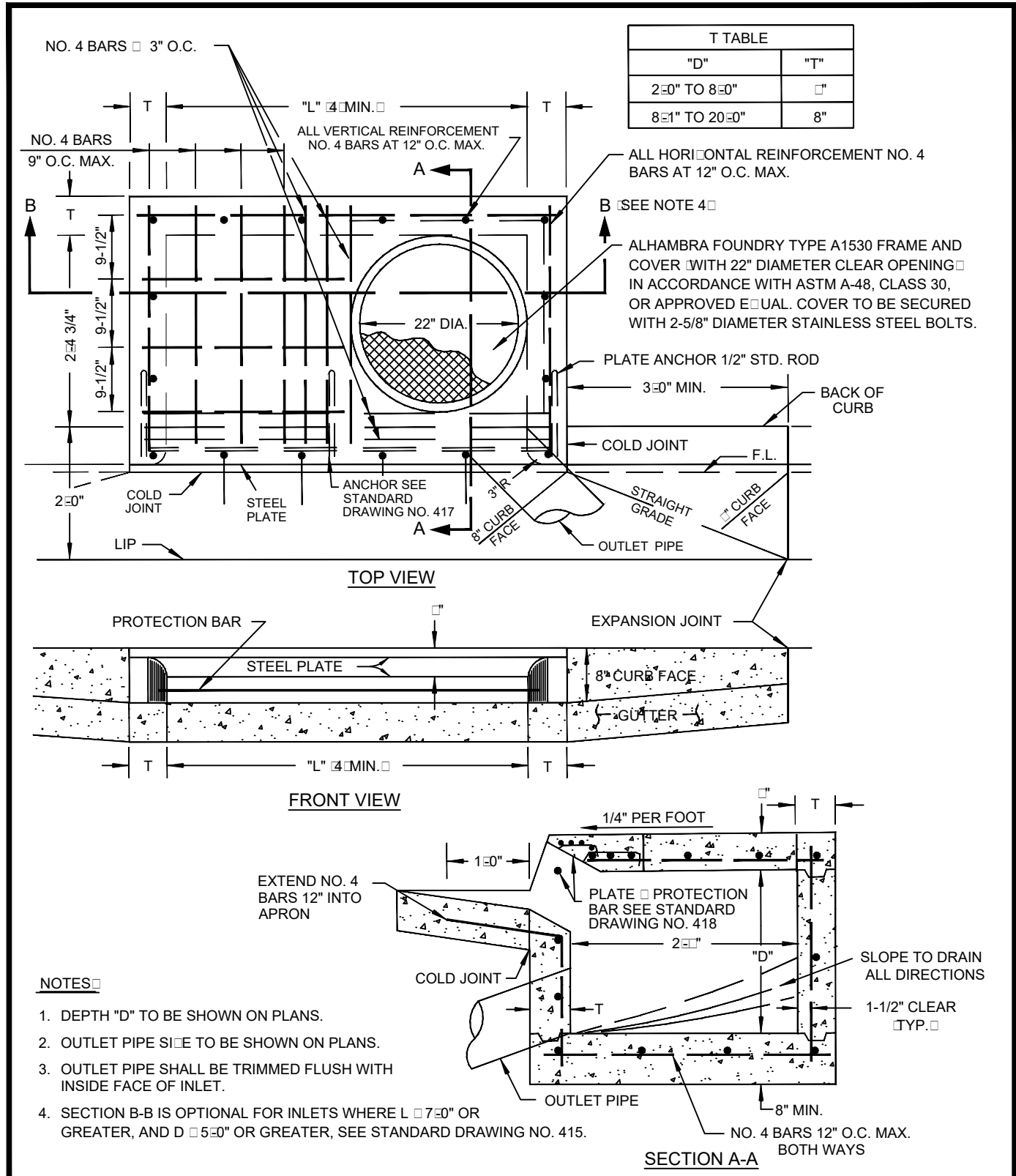
NOTES

1. ALL REBAR SHALL HAVE 2-1/2" COVER U.O.N.
2. ALL CONCRETE SHALL BE CLASS DA 4000 PSI.
3. SEE PLANS FOR LENGTH L AND DEPTH H OF EACH INLET.
4. SEE PLANS FOR SIZE AND LOCATION OF OUTLET PIPE.
5. ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED.
6. ALL DAMAGED GALVANIZED STEEL SHALL BE PAINTED WITH A MINIMUM 3.5 MIL COAT OF ONE OF THE FOLLOWING: INC-RICH PAINTS; GALVONOX TYPE I; LPS COLD GALVANE; SHERWIN-WILLIAMS "INC CLAD I"
7. ALL REBAR SHALL BE GRADE 60.
8. ALL STRUCTURAL STEEL SHALL BE A36.
9. ALL ANCHOR BOLTS SHALL BE A-307.
10. BEDDING FOR DROP INLET SHALL BE 1" MIN. OF TYPE II AGGREGATE BASE COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D1557.

H MAX	SLAB DIM. (S)	WALLS			
		DIM. (W)	(A) BARS	(B) BARS	(C) BARS
4'-0"	8"	8"	4 @ 10" O.C.	5 @ 12" O.C.	5 @ 12" O.C.
6'-0"	8"	8"	5 @ 12" O.C.	5 @ 12" O.C.	5 @ 12" O.C.
8'-0"	8"	9"	5 @ 12" O.C.	5 @ 12" O.C.	5 @ 12" O.C.
10'-0"	8"	9"	5 @ 12" O.C.	5 @ 12" O.C.	5 @ 12" O.C.

SECTION A-A

SPECIFICATION REFERENCE		AGENCY APPROVED					
501	CONCRETE	B	C	H	L	M	N
501	CONCRETE STRUCTURES	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA MODIFIED TYPE "A" DROP INLET					
501	REINFORCING STEEL						
501	STEEL						
		DATE	9-14-0	DWG. NO.	411.1		



- NOTES**
1. DEPTH "D" TO BE SHOWN ON PLANS.
 2. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
 3. OUTLET PIPE SHALL BE TRIMMED FLUSH WITH INSIDE FACE OF INLET.
 4. SECTION B-B IS OPTIONAL FOR INLETS WHERE L \geq 7'-0" OR GREATER, AND D \geq 5'-0" OR GREATER, SEE STANDARD DRAWING NO. 415.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
DROP INLET TYPE "A"						
DATE	4-11-02	DWG. NO.	411			

Effective 10/08/2020 to 12/09/2020

TYPE "CM2" DROP INLET SECTION

TYPE "DM2" DROP INLET SECTION

DROP INLET LAYOUT PLAN

PROTECTIVE FACE ROD - DETAIL "A"

DETAIL "B"

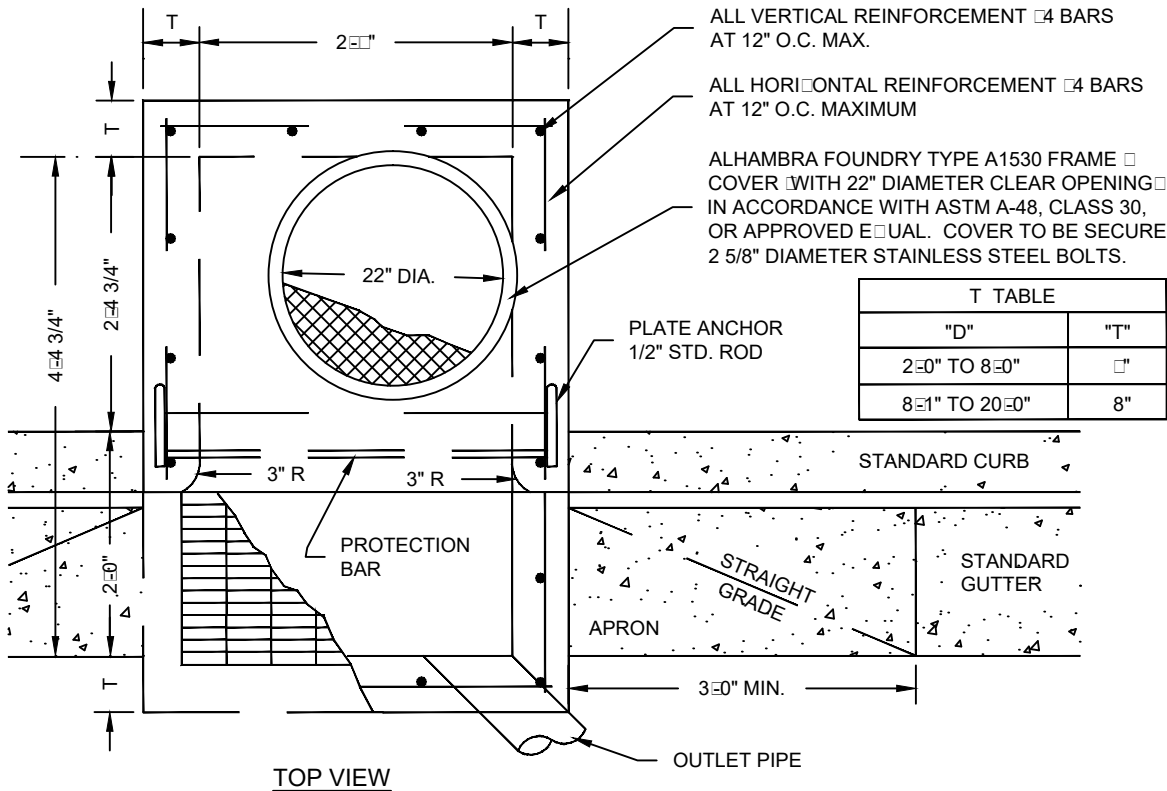
ALTERNATE CONNECTION DETAIL

NOTES

- ALL EXPOSED METALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- PROVIDE 1/2" MIN. CLEARANCE ALL AROUND THE STEEL BEAM, DRY PACK AFTER INSTALLATION.
- WHEN REQUIRED BY LENGTH OF OPENING, PLATE ANGLE MAY BE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE.
- ALL GALVANIZED DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF GALVALLOY OR E.UAL.
- CONCRETE SHALL BE MODIFIED CLASS DA 4000 PSI, SEE SPECIAL PROVISIONS SECTION 501.
- ANGLE ANCHORS SHALL BE EMBEDDED MIDPOINT IN EACH ENDWALL AND EVENLY SPACED, MAXIMUM SPACING OF 2'-0".

D	MAX	DIM.	W	ⓐ	BARS
4'-0"	4'	12"	O.C.	4	12" O.C.
8'-0"	8'	12"	O.C.	5	12" O.C.
10'-0"	10'	12"	O.C.	5	12" O.C.

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
501	CONCRETE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA TYPE "C-D" MODIFIED DROP INLET						
501	CONCRETE STRUCTURES							
501	REINFORCING STEEL							
501	STEEL							
DATE	9-14-0	DWG. NO.	412.1					



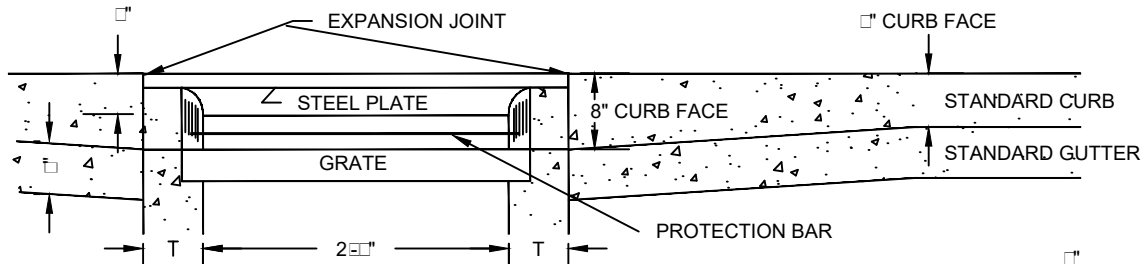
ALL VERTICAL REINFORCEMENT #4 BARS AT 12" O.C. MAX.

ALL HORIZONTAL REINFORCEMENT #4 BARS AT 12" O.C. MAXIMUM

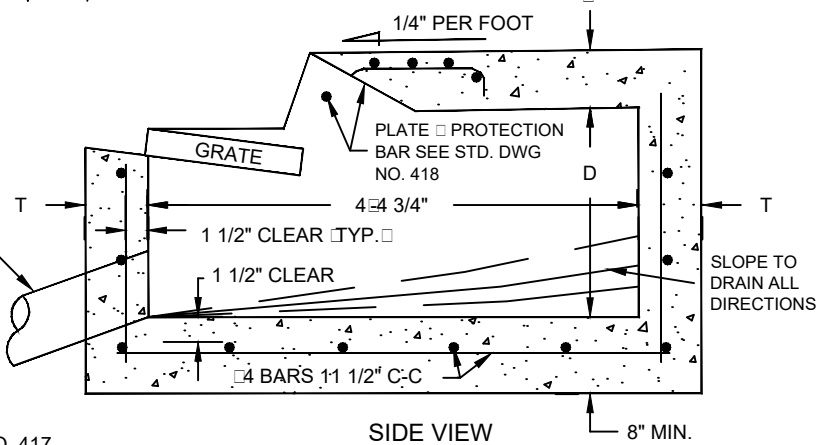
ALHAMBRA FOUNDRY TYPE A1530 FRAME # COVER WITH 22" DIAMETER CLEAR OPENING IN ACCORDANCE WITH ASTM A-48, CLASS 30, OR APPROVED EQUAL. COVER TO BE SECURED WITH 2 5/8" DIAMETER STAINLESS STEEL BOLTS.

T TABLE	
"D"	"T"
2'-0" TO 8'-0"	#
8'-1" TO 20'-0"	8"

TOP VIEW



FRONT VIEW



SIDE VIEW

NOTES

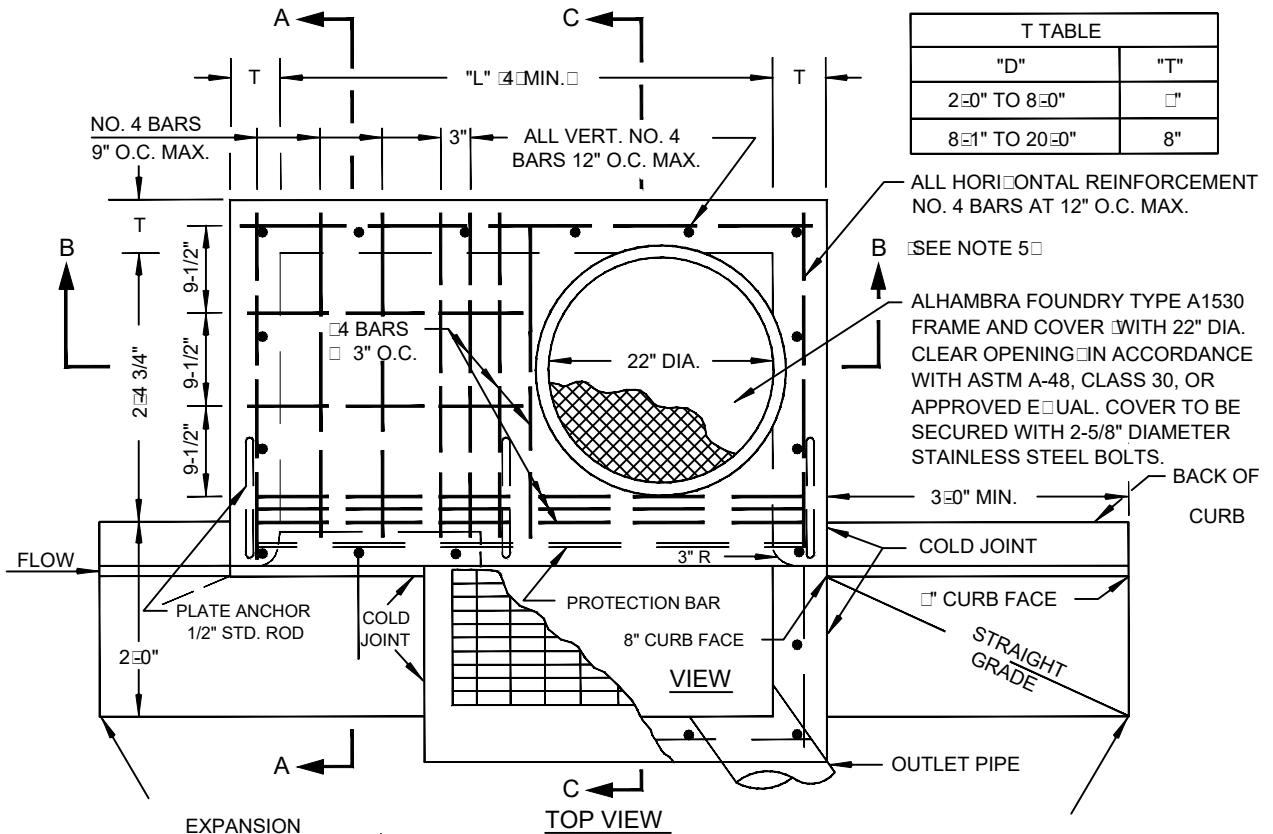
1. DEPTH "D" TO BE SHOWN ON PLANS.
2. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
3. CONCRETE SHALL BE CLASS "D" OR "DA".
4. OUTLET PIPE SHALL BE TRIMMED FLUSH WITH INSIDE FACE OF INLET.
5. FOR GRATE DETAIL SEE STANDARD DRAWING NO. 417

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
501	CONCRETE
502	CONCRETE STRUCTURES
505	REINFORCING STEEL
713	STEEL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
DROP INLET TYPE "B"	
DATE 4-11-02	DWG. NO. 412

Effective 10/08/2020 to 12/09/2020

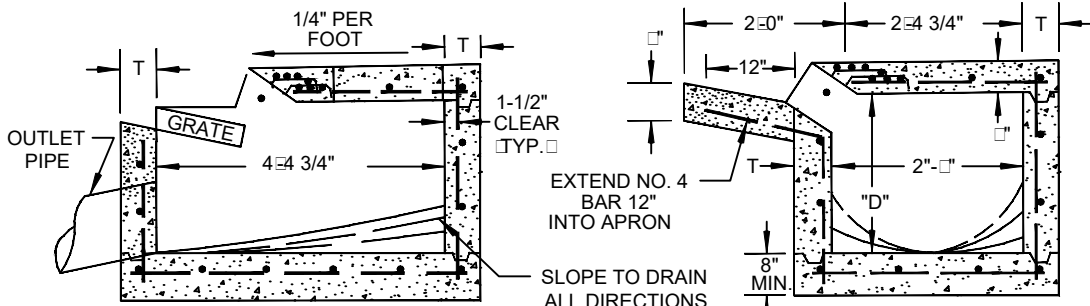
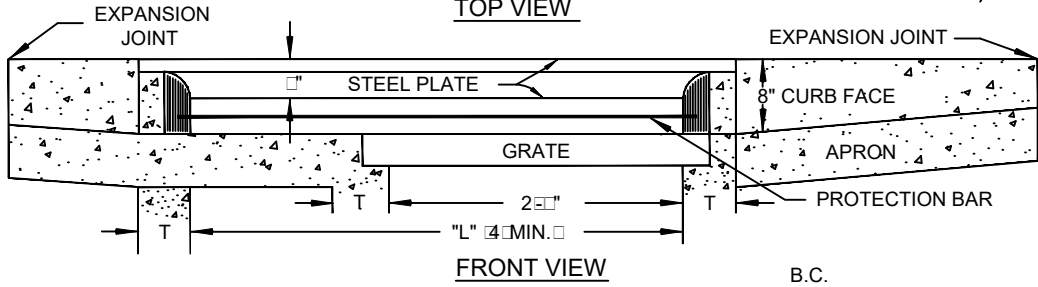


T TABLE	
"D"	"T"
2'-0" TO 8'-0"	4"
8'-1" TO 20'-0"	8"

ALL HORIZONTAL REINFORCEMENT NO. 4 BARS AT 12" O.C. MAX.

SEE NOTE 5

ALHAMBRA FOUNDRY TYPE A1530 FRAME AND COVER WITH 22" DIA. CLEAR OPENING IN ACCORDANCE WITH ASTM A-48, CLASS 30, OR APPROVED EQUAL. COVER TO BE SECURED WITH 2-5/8" DIAMETER STAINLESS STEEL BOLTS.

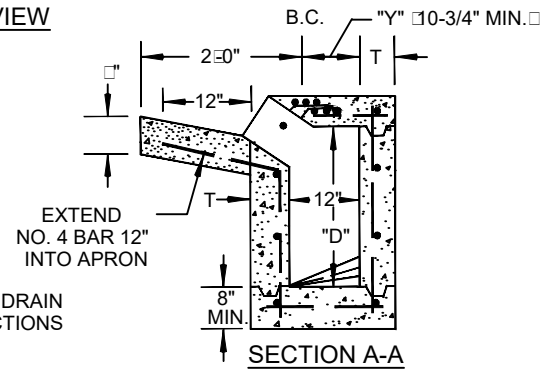
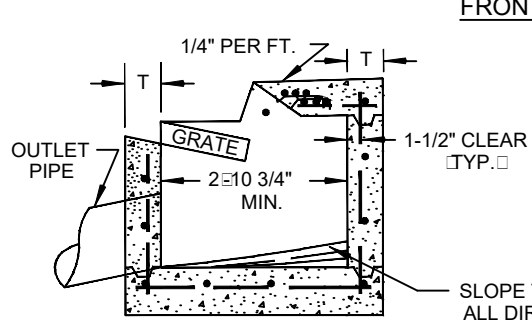
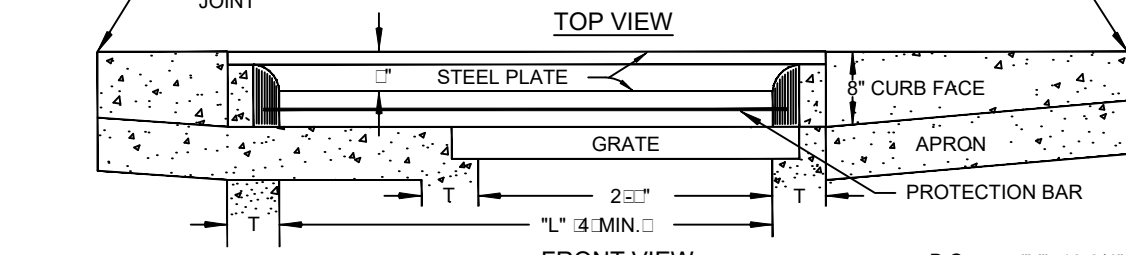
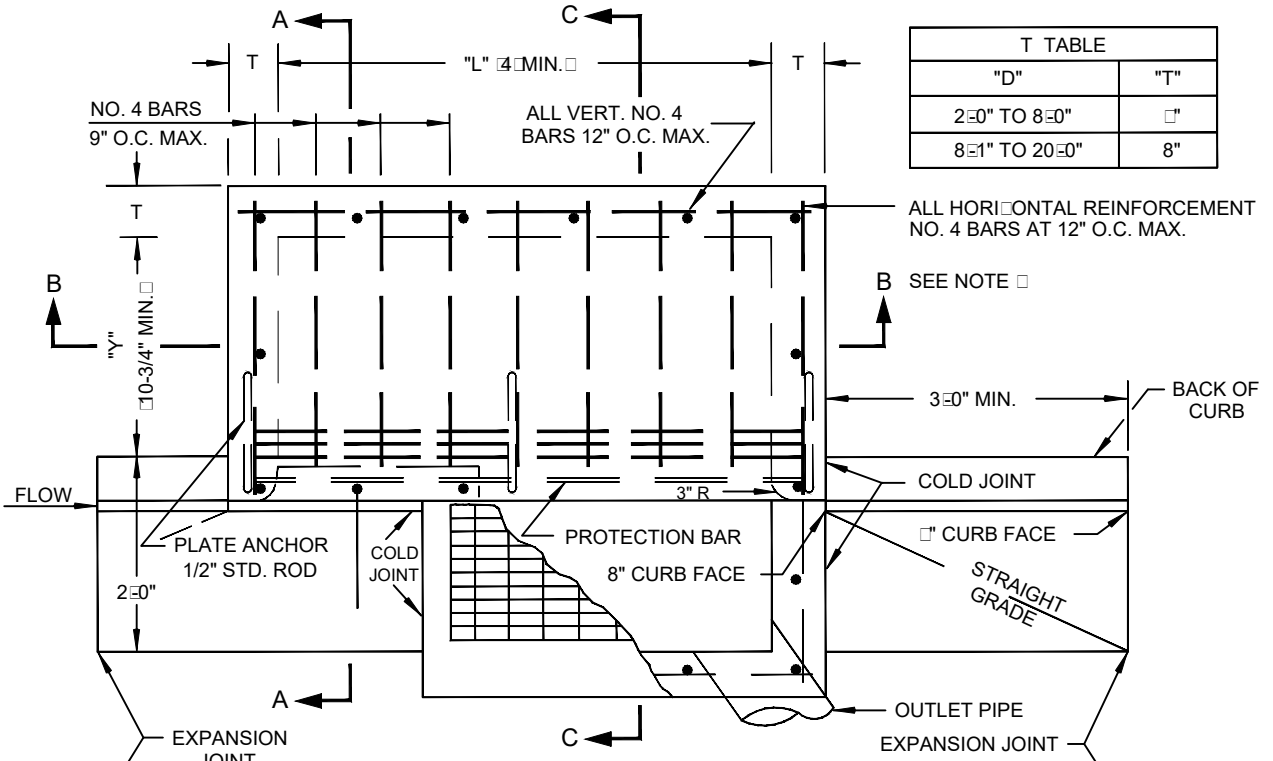


NOTES

1. DEPTH "D" TO BE SHOWN ON PLANS.
2. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
3. WHEN LENGTH "L" EXCEEDS 4'-0" SUPPORT BOLTS REQUIRED, SEE STANDARD DRAWING NO. 418.
4. FOR GRATE DETAIL SEE STANDARD DRAWING NO. 417.
5. SECTION B-B IS OPTIONAL FOR INLETS WHERE L ≥ 7'-0" AND D ≥ 5'-0", SEE STANDARD DRAWING NO. 415.

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
DROP INLET TYPE "C"							
DATE	4-11-02	DWG. NO.	413				

SPECIFICATION REFERENCE	
501	CONCRETE
502	CONCRETE STRUCTURES
505	REINFORCING STEEL
713	STEEL



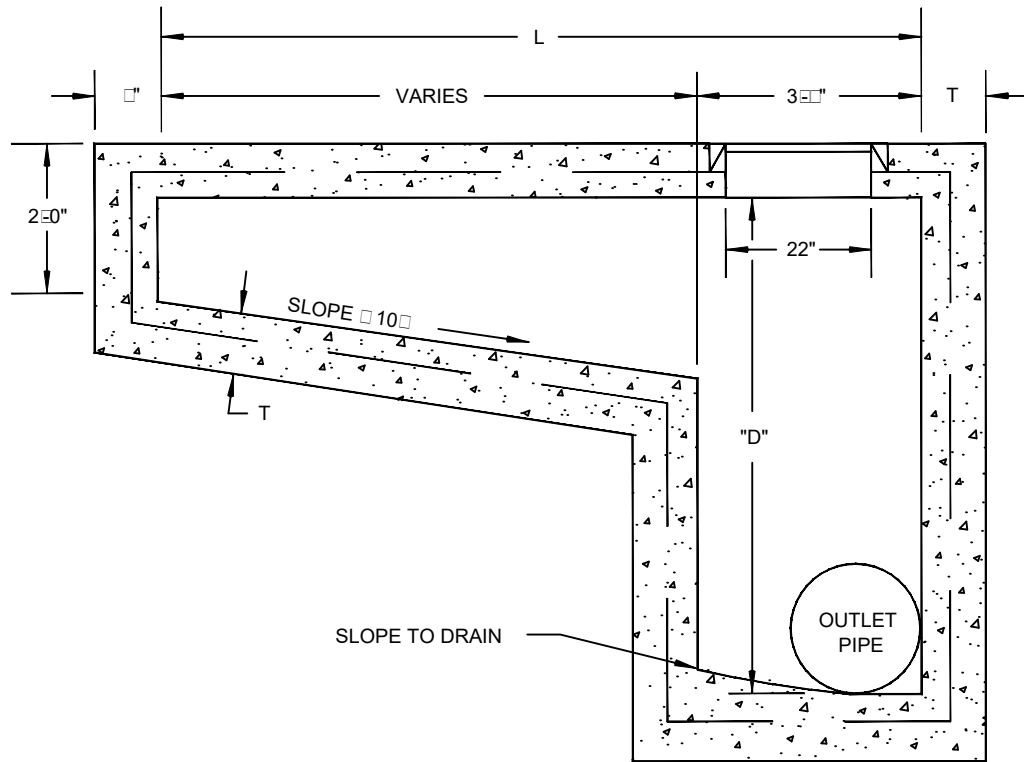
NOTES

1. DROP INLET TYPE "D" TO BE USED WHEN CONFLICTING UTILITIES ARE LOCATED IN THE SIDEWALK AREA.
 2. DEPTH "D" AND DISTANCE "Y" TO BE SHOWN ON PLANS.
 3. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
 4. WHEN LENGTH "L" EXCEEDS 4'-0" SUPPORT BOLTS REQUIRED, SEE STANDARD DRAWING NO. 418.
 5. FOR GRATE DETAIL SEE STANDARD DRAWING NO. 417.
- SECTION B-B IS OPTIONAL FOR INLETS WHERE L ≤ 7'-0" AND D ≤ 5'-0", SEE STANDARD DRAWING NO. 415.

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
DROP INLET TYPE "D"							
DATE	4-11-02	DWG. NO.	414				

SPECIFICATION REFERENCE	
501	CONCRETE
502	CONCRETE STRUCTURES
505	REINFORCING STEEL
713	STEEL

Effective 10/08/2020 to 12/09/2020



SECTION B-B

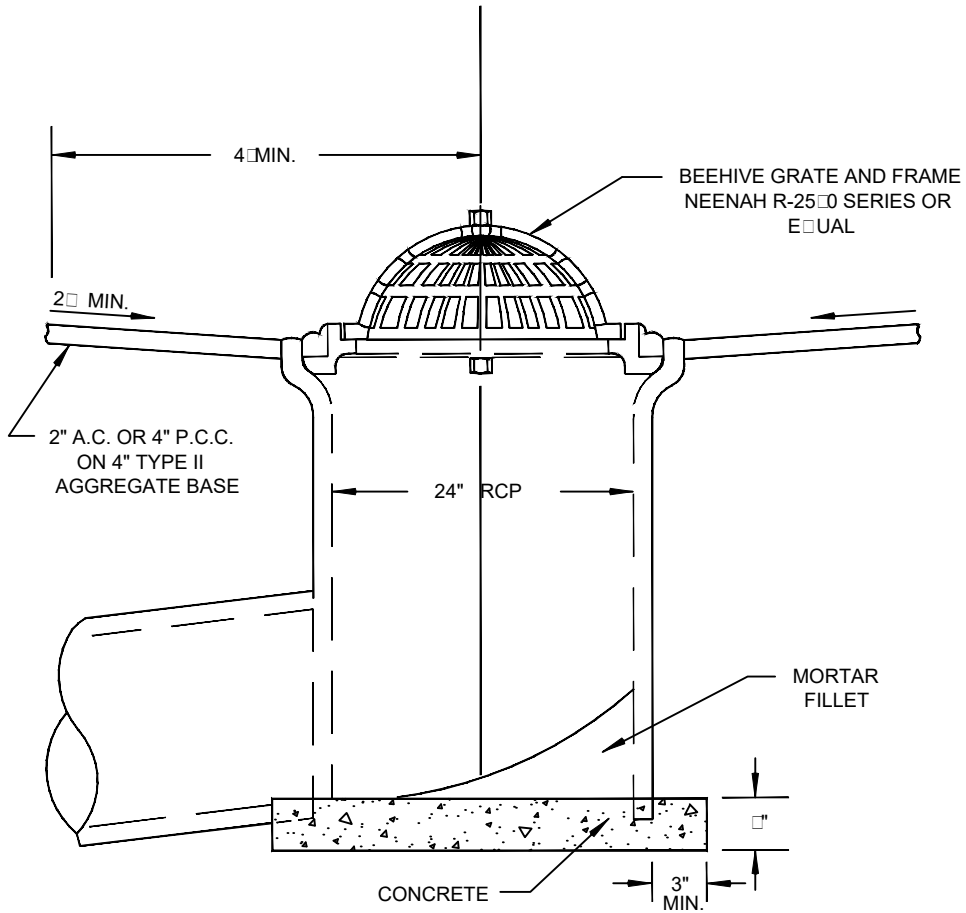
T TABLE	
"D"	"T"
2'-0" TO 8'-0"	4"
8'-1" TO 20'-0"	8"

NOTES

1. DEPTH "D" TO BE SHOWN ON PLANS.
2. OUTLET PIPE SIZE TO BE SHOWN ON PLANS.
3. SECTION APPEARS AS SECTION B-B FOR DROP INLET TYPE "A", STANDARD DRAWING NO. 411 AND FOR DROP INLET TYPE "C" STANDARD DRAWING NO. 413.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
DROP INLET TYPES "A" AND "B" SPECIAL DESIGN						
DATE	DWG. NO.	415				

SPECIFICATION REFERENCE	
501	CONCRETE
502	CONCRETE STRUCTURES

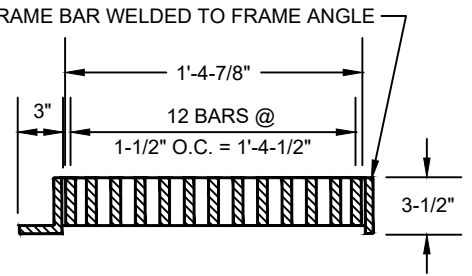
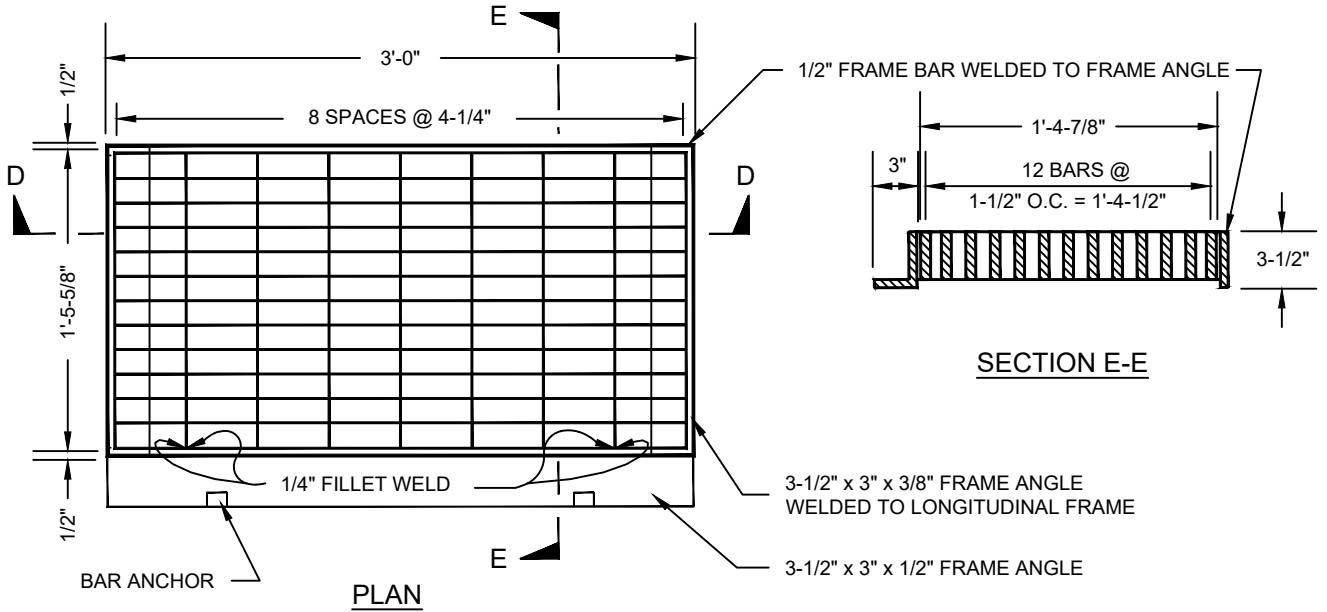


NOTE

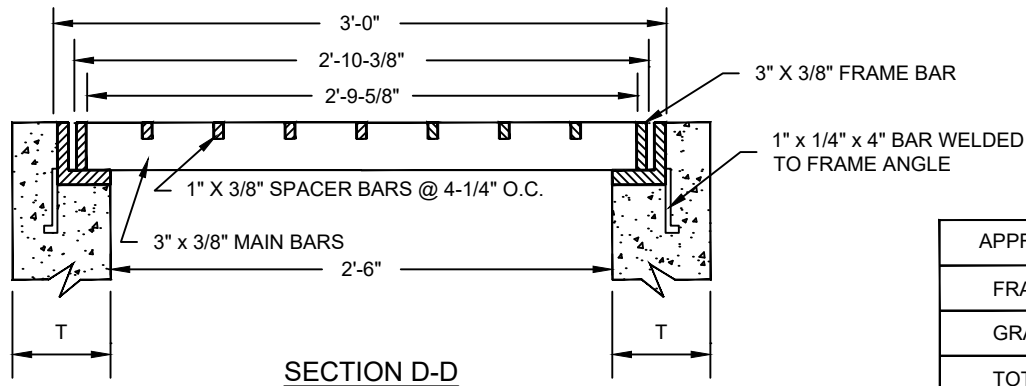
BEEHIVE DROP INLETS SHALL BE USED AT LOCATIONS APPROVED BY THE ENGINEER.

Effective 10/08/2020 to 12/09/2020

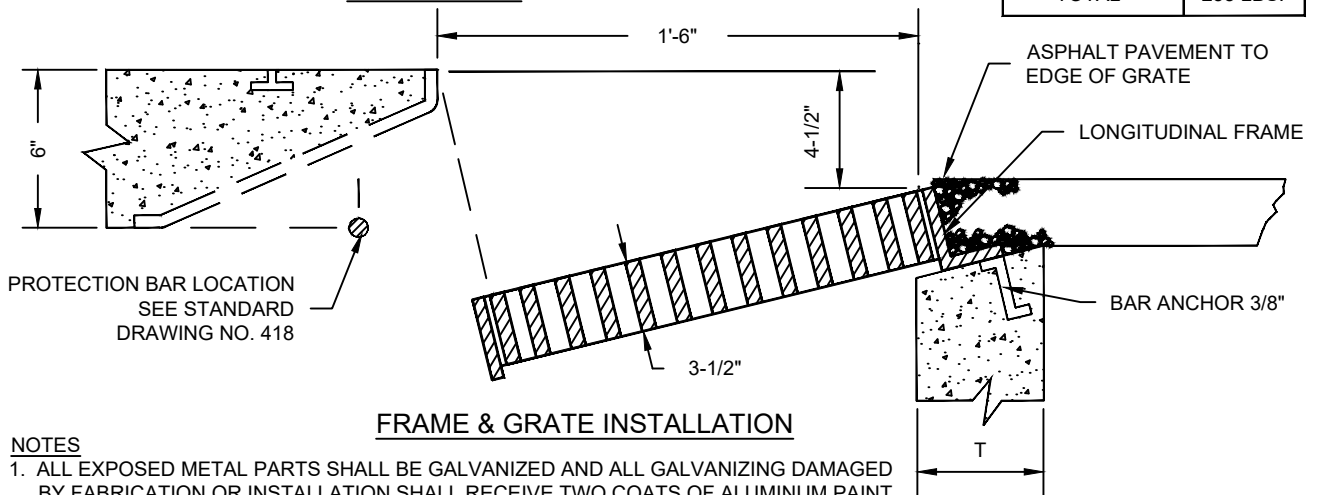
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
03	REINFORCED CONCRETE PIPE	BEEHIVE DROP INLET						
712	MISCELLANEOUS METAL							
		DATE 12-14-00	DWG. NO.		41			



SECTION E-E



APPROXIMATE WEIGHT	
FRAME	78 LBS.
GRATE	157 LBS.
TOTAL	235 LBS.



NOTES

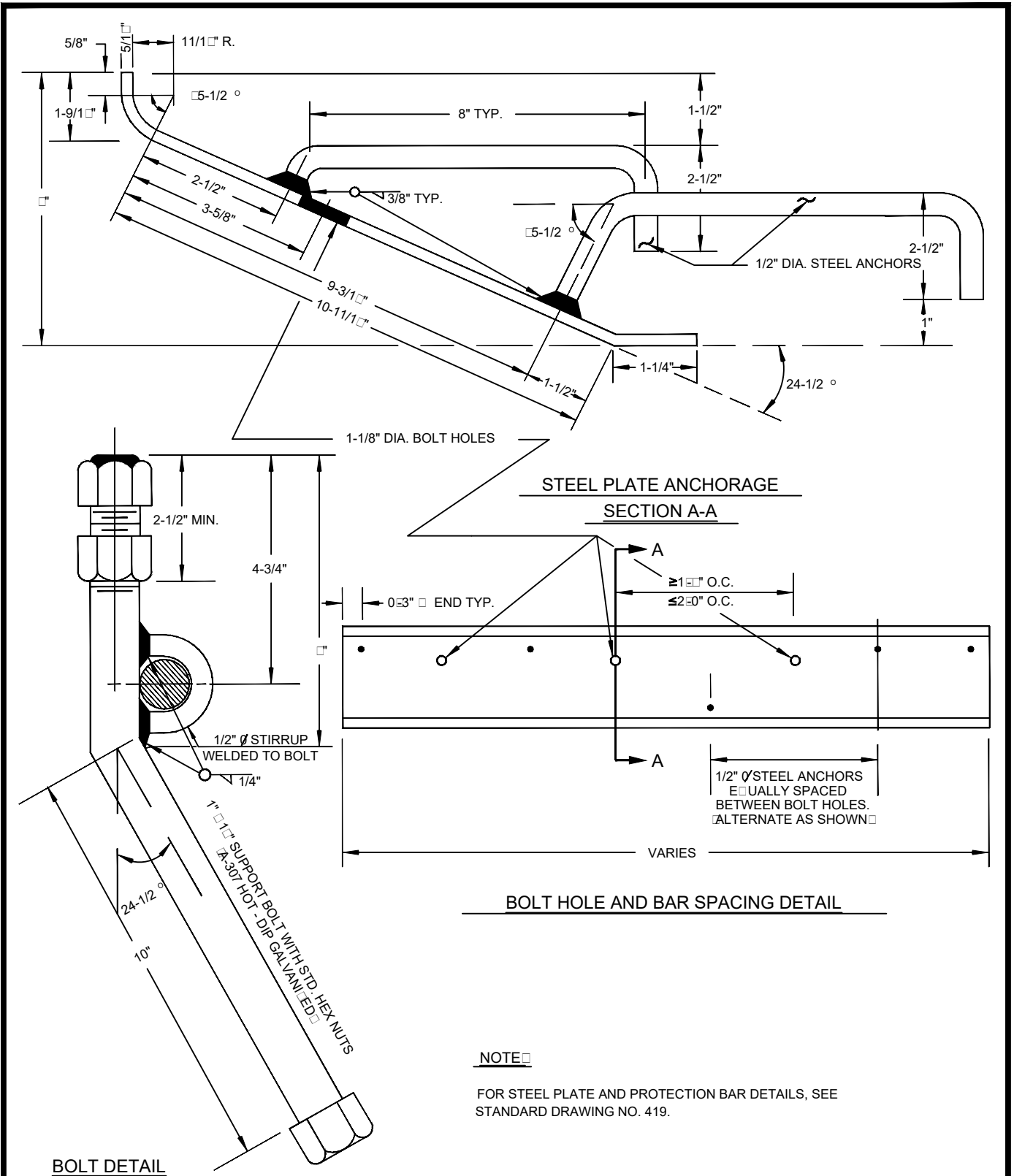
1. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED AND ALL GALVANIZING DAMAGED BY FABRICATION OR INSTALLATION SHALL RECEIVE TWO COATS OF ALUMINUM PAINT (GALVONOX OR EQUAL).
2. GRATES SHALL NOT BE INSTALLED IN PEDESTRIAN ACCESS ROUTES.
3. GRATES MUST BE BICYCLE SAFE.

AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	
712	MISCELLANEOUS METAL
714	PAINT
715	GALVANIZING

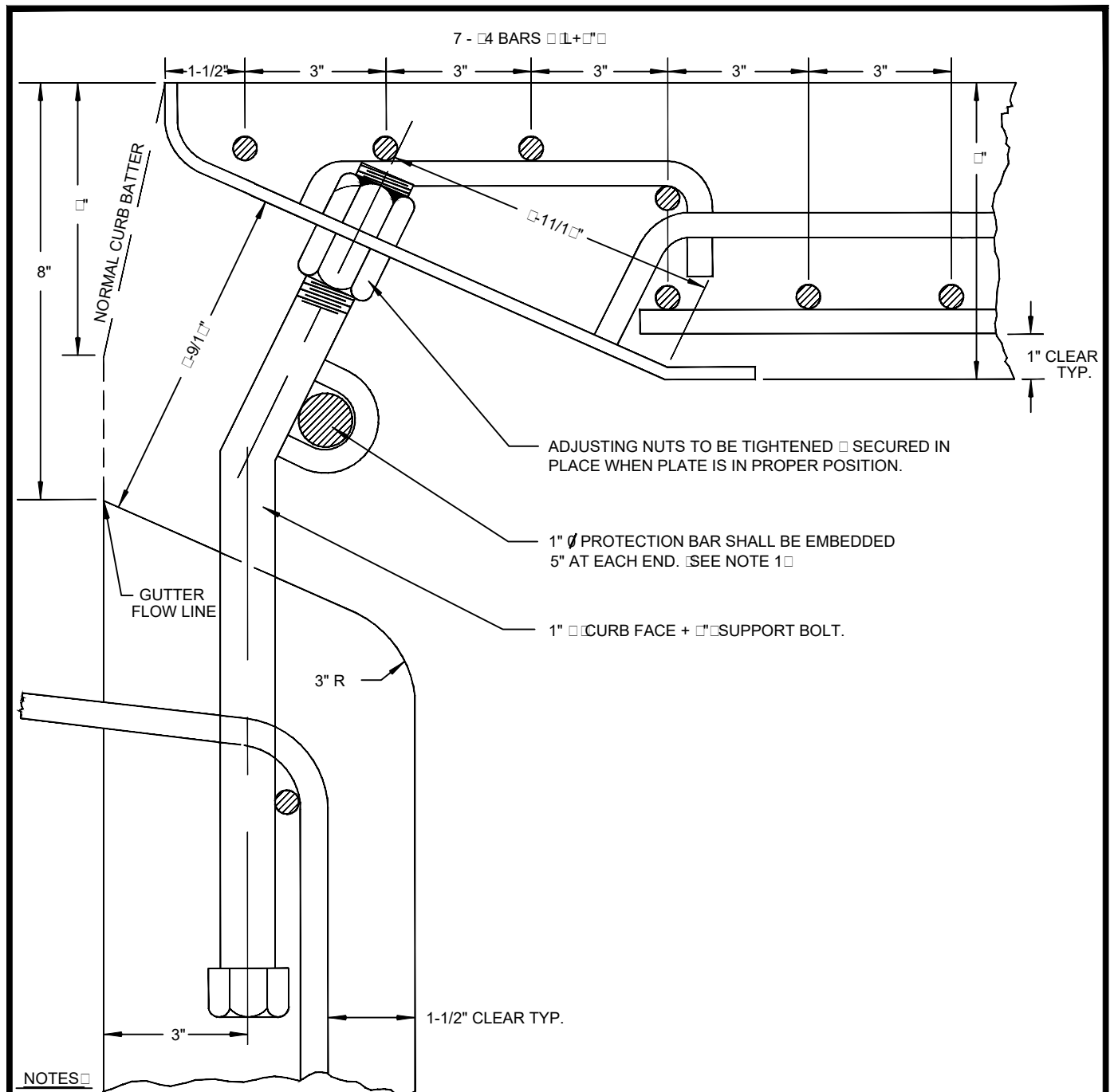
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
DROP INLET FRAME AND GRATE	
DATE 01-09-20	DWG. NO. 417

Effective 10/08/2020 to 12/09/2020



NOTE
 FOR STEEL PLATE AND PROTECTION BAR DETAILS, SEE
 STANDARD DRAWING NO. 419.

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
710	STRUCTURAL STEEL	DROP INLET STEEL PLATE ANCHORAGE					
713	REINFORCEMENT STEEL						
715	GALVANIZING						
DATE	DWG. NO.	418					



NOTES

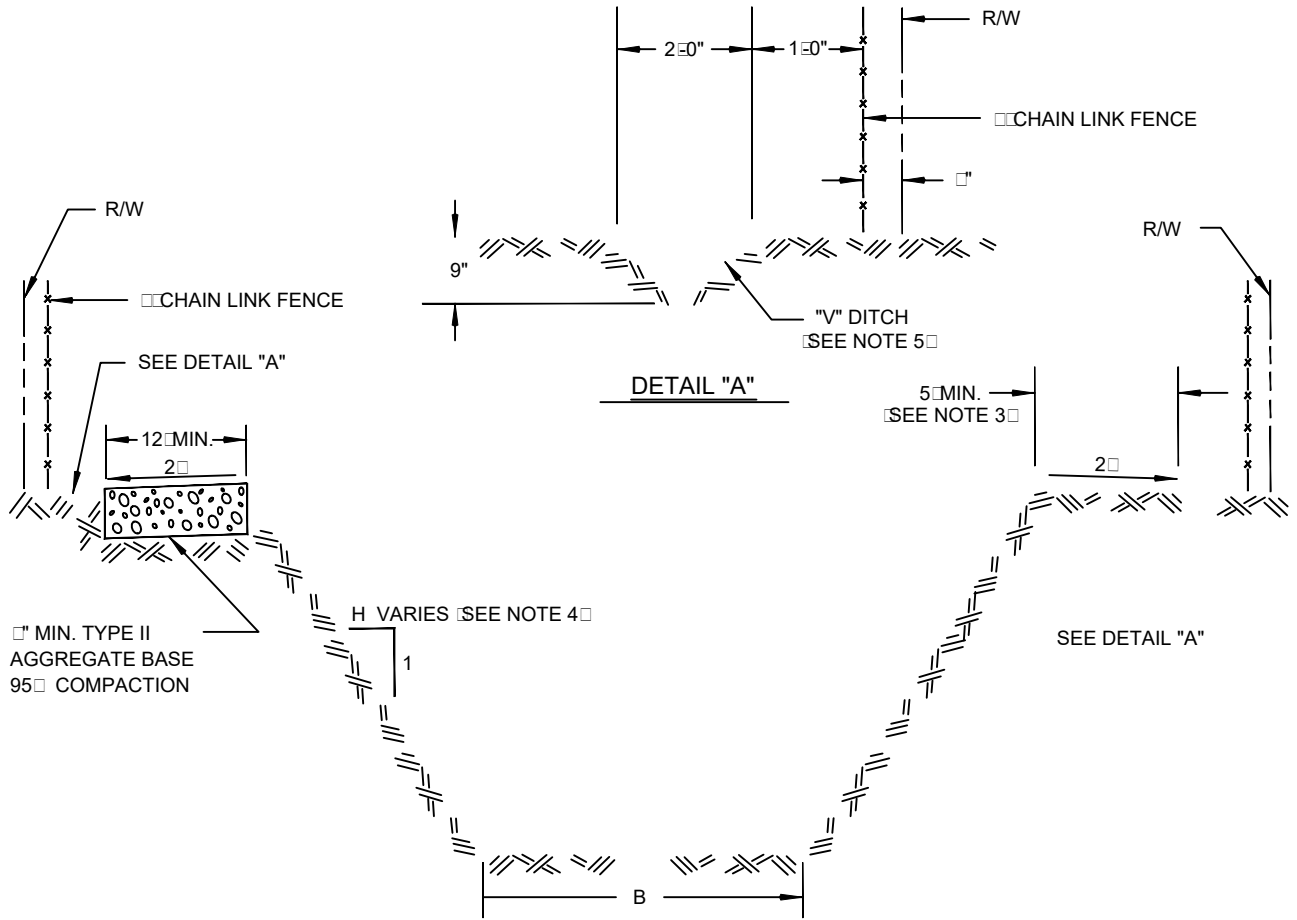
1. PROTECTION BAR SHALL BE REQUIRED ON ALL INLETS AND SHALL BE PLACED PARALLEL TO THE STEEL FACE PLATE.
2. SUPPORT BOLTS SHALL BE EQUALLY SPACED AT NOT MORE THAN 24" O.C. AND NOT LESS THAN 12" O.C.
3. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED AND GALVANIZING DAMAGED BY FABRICATION OR INSTALLATION SHALL RECEIVE TWO COATS OF ALUMINUM PAINT (GALVONOX OR EQUAL)
4. FOR STEEL PLATE ANCHORAGE, SEE STANDARD DRAWING NO. 418.
5. #4 BARS @ 12" SHALL BE IN ADDITION TO REINFORCING STEEL PER APPLICABLE DROP INLET STANDARD PLAN.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
713	REINFORCEMENT PLATES
714	PAINT
715	GALVANIZING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
DROP INLET STEEL PLATE AND PROTECTION BAR	
DATE	DWG. NO. 419

Effective 10/08/2020 to 12/09/2020

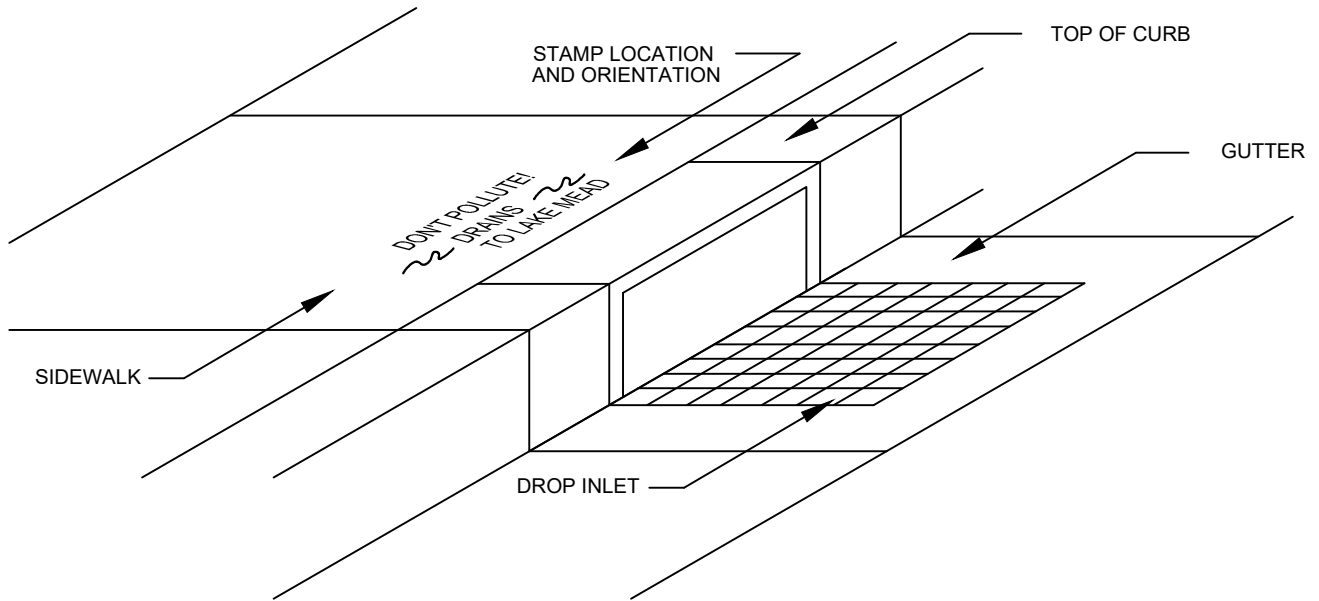


NOTES

1. CONSTRUCT 14-FOOT WIDE CHAIN LINK GATE AT ALL STREET ACCESS POINTS, FOR ACCESS ONTO 12-FOOT ACCESS ROADS.
2. CONSTRUCT 3-FOOT WIDE CHAIN LINK GATE AT ALL STREET ACCESS POINTS FOR ACCESS ON THE 5-FOOT WIDTH ACCESS SIDE.
3. CONSTRUCT SECOND ACCESS ROAD 12-FOOT MINIMUM WIDTH WITH 1/2-INCH MIN. TYPE II AGGREGATE BASE IF B EXCEEDS 30.
4. FOR UNLINED CHANNELS H 2. ≥
5. "V" DITCH SHALL BE CONSTRUCTED TO PREVENT OVERLAND RUNOFF FROM ERODING SIDES OF BANK. AN ADEQUATE NUMBER OF INLETS ALONG THE "V" DITCH SHALL BE DESIGNED WITH A MINIMUM 12-INCH CMP LATERAL DISCHARGING INTO THE CHANNEL. APPROPRIATE BANK PROTECTION FOR LATERAL PIPE DISCHARGE SHALL BE PROVIDED. OTHER METHODS OF OVERLAND RUNOFF CONTROL MAY BE ACCEPTABLE IF APPROVED BY THE ENGINEER.

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	TYPICAL OPEN CHANNEL						
DATE	DWG. NO.	420					

STORMWATER INLET CONCRETE STAMP



NOTES

1. MESSAGE OR SYMBOL SHALL BE AS SHOWN ON THE DRAWING OR ON THE VERTICAL CURB NEXT TO THE DROP INLET OR AS APPROVED BY THE APPROPRIATE CITY OR COUNTY ENGINEER.
2. LETTERS SHALL BE 1-7/16" IN HEIGHT. THE MESSAGE SHALL BE CENTERED ON THE BACK OF THE INLET OR ON THE TOP OF CURB.
3. CONCRETE SHALL BE STAMPED IN SUCH A WAY AS TO PROVIDE FOR A CLEAR AND LEGIBLE IMAGE.
 APPROXIMATE DEPTH OF 1/4"
4. ALL STAMPS SHALL BE APPROVED BY THE CITY OR COUNTY ENGINEER BEFORE BEING USED.
5. STAMP MAY BE PERMANENTLY CAST INTO CAST IRON FRAME OR PRE-CAST CONCRETE PORTIONS OF INLET.
- WHERE RETROFITTING IS REQUIRED, AN EPOXIED PLACARD BEARING THE MESSAGE AND SYMBOL APPROVED BY THE APPROPRIATE CITY OR COUNTY ENGINEER SHALL BE PERMANENTLY AFFIXED ON THE TOP OF THE ADJACENT CURB.
7. THIS STANDARD IS REQUIRED IN THE LAS VEGAS VALLEY IN WHICH AREA WATER DRAINS TO LAKE MEAD.

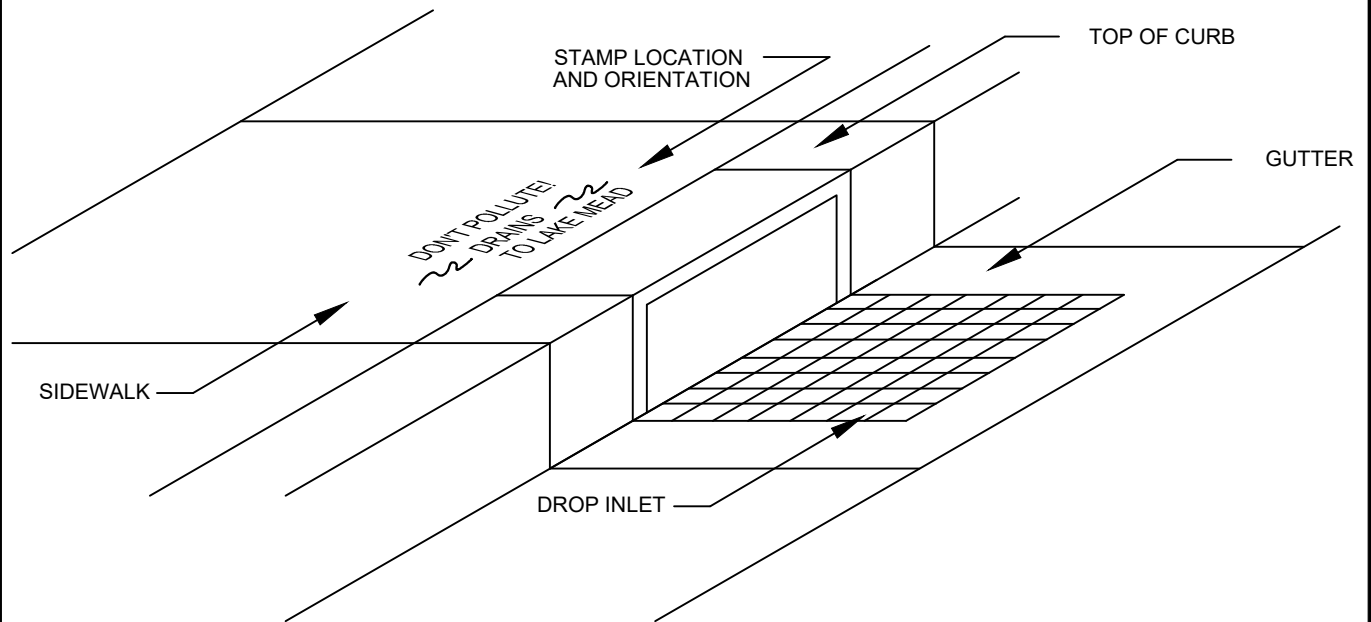
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
STORM WATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL	

DATE 12-09-10	DWG. NO. 421	SHEET 1 OF 3
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STORMWATER INLET CONCRETE STAMP



NOTES

1. MESSAGE OR SYMBOL SHALL BE AS SHOWN ON THE DRAWING OR ON THE VERTICAL CURB NEXT TO THE DROP INLET OR AS APPROVED BY THE APPROPRIATE CITY OR COUNTY ENGINEER.
2. LETTERS SHALL BE 1-7/16" IN HEIGHT. THE MESSAGE SHALL BE CENTERED ON THE BACK OF THE INLET OR ON THE TOP OF CURB.
3. CONCRETE SHALL BE STAMPED IN SUCH A WAY AS TO PROVIDE FOR A CLEAR AND LEGIBLE IMAGE.
 - APPROXIMATE DEPTH OF 1/4"
4. ALL STAMPS SHALL BE APPROVED BY THE CITY OR COUNTY ENGINEER BEFORE BEING USED.
5. STAMP MAY BE PERMANENTLY CAST INTO CAST IRON FRAME OR PRE-CAST CONCRETE PORTIONS OF INLET.
 - WHERE RETROFITTING IS REQUIRED, AN EPOXIED PLACARD BEARING THE MESSAGE AND SYMBOL APPROVED BY THE APPROPRIATE CITY OR COUNTY ENGINEER SHALL BE PERMANENTLY AFFIXED ON THE TOP OF THE ADJACENT CURB.
7. THIS STANDARD IS REQUIRED IN THE LAS VEGAS VALLEY IN WHICH AREA WATER DRAINS TO LAKE MEAD.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
STORM WATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL						
DATE 12-09-10	DWG. NO.	421	SHEET 1 OF 3			

SPECIFICATION REFERENCE	

STAMP MESSAGES AND SYMBOLS

1 □.5" MAXIMUM

↑
 5"
 MAX.
 ↓

DONT □ POLLUTE □
~~~~~
DRAINS
~~~~~
TO LAKE MEAD □

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		STORM WATER □ QUALITY MANAGEMENT STAMP AND SIGN DETAIL						
		DATE 12-09-10	DWG. NO.	421	SHEET 2 OF 3			

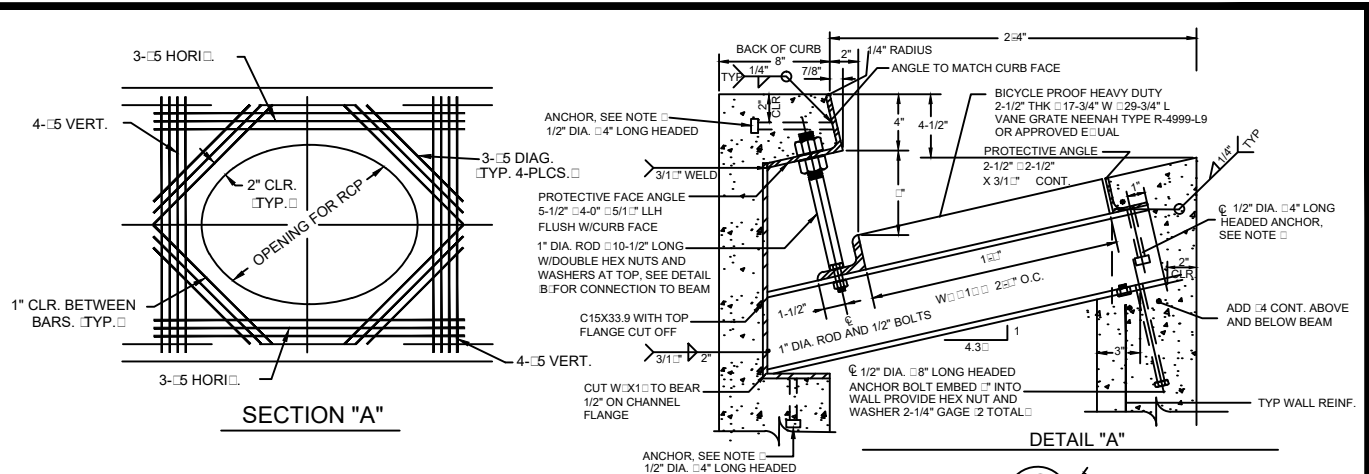
Effective 10/08/2020 to 12/09/2020

4" PLACARD - COLORS BLUE AND GREEN

THIS EPOXY PLACARD MESSAGE AND SYMBOL HAS BEEN APPROVED BY THE APPROPRIATE CITY OR COUNTY ENGINEER. ANY OTHER EQUIVALENT MESSAGE AND SYMBOL DESIGNS WILL REQUIRE PRIOR APPROVAL OF THE APPROPRIATE CITY OR COUNTY BEFORE INSTALLATION. THE PLACARD MATERIAL SHALL BE EITHER POLYCARBONATE OR METAL AND THE FINISH SHALL BE UV AND ABRASION RESISTANT.

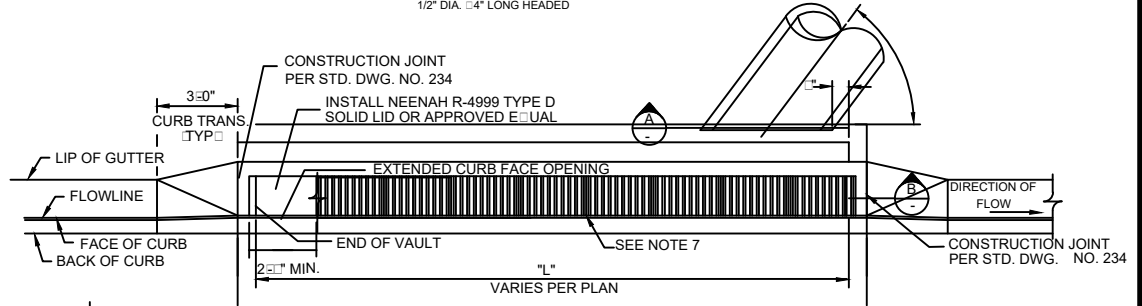
STORM DRAIN MARKER

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		STORM WATER QUALITY MANAGEMENT STAMP AND SIGN DETAIL						
		DATE 12-09-10	DWG. NO.	421	SHEET 3 OF 3			

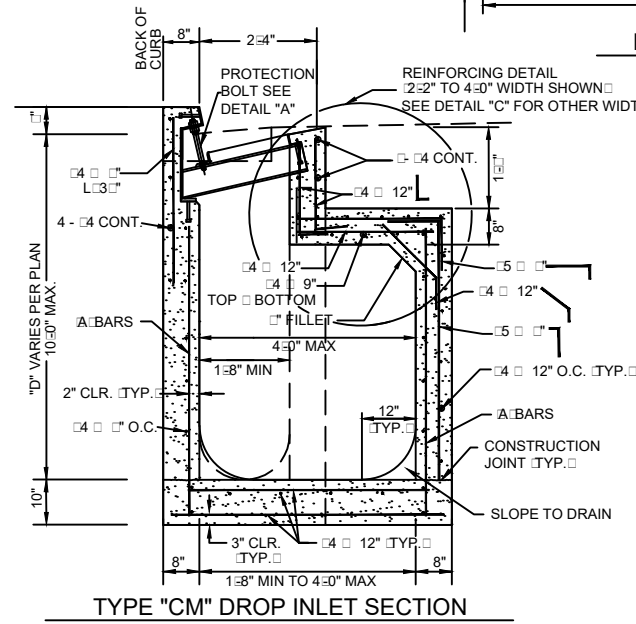


SECTION "A"

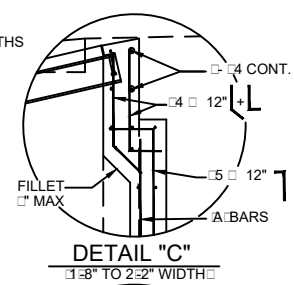
DETAIL "A"



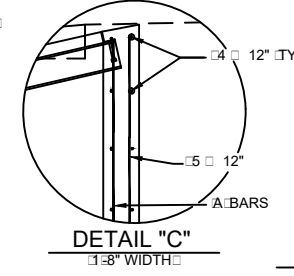
DROP INLET LAYOUT PLAN



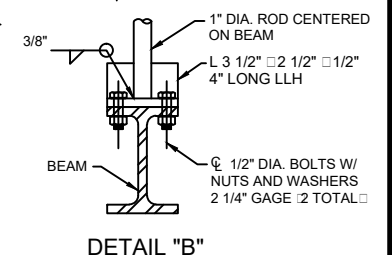
TYPE "CM" DROP INLET SECTION



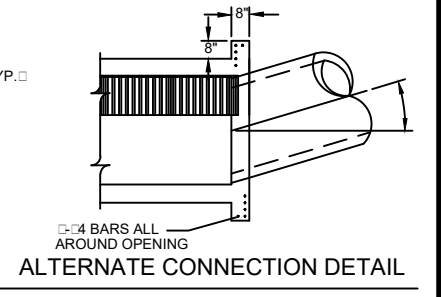
DETAIL "C"
1.8" TO 2.2" WIDTH



DETAIL "C"
3" TO 8" WIDTH



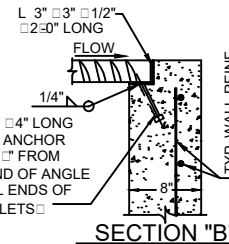
DETAIL "B"



ALTERNATE CONNECTION DETAIL

NOTES

1. ALL EXPOSED METALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. PROVIDE 1/2" MIN. CLEARANCE ALL AROUND THE STEEL BEAM, DRY PACK AFTER INSTALLATION.
3. WHEN REQUIRED BY LENGTH OF OPENING, PLATE ANGLE MAY BE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE.
4. ALL GALVANIZED DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF GALVALLOY OR EQUAL.
5. CONCRETE SHALL BE MODIFIED CLASS DA 4000 PSI, SEE SPECIAL PROVISIONS SECTION 501.
6. ANGLE ANCHORS SHALL BE EMBEDDED MIDPOINT IN EACH ENDWALL AND EVENLY SPACED, MAXIMUM SPACING OF 2'.
7. THE GAP BETWEEN THE GRATES MUST BE 1/2-INCH OR LESS.



SECTION "B"

D MAX	DIM. W	(A) BARS
4'-0"	8"	5 # 12" O.C.
6'-0"	8"	5 # 12" O.C.
8'-0"	8"	5 # 9" O.C.
10'-0"	8"	5 # 8" O.C.

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

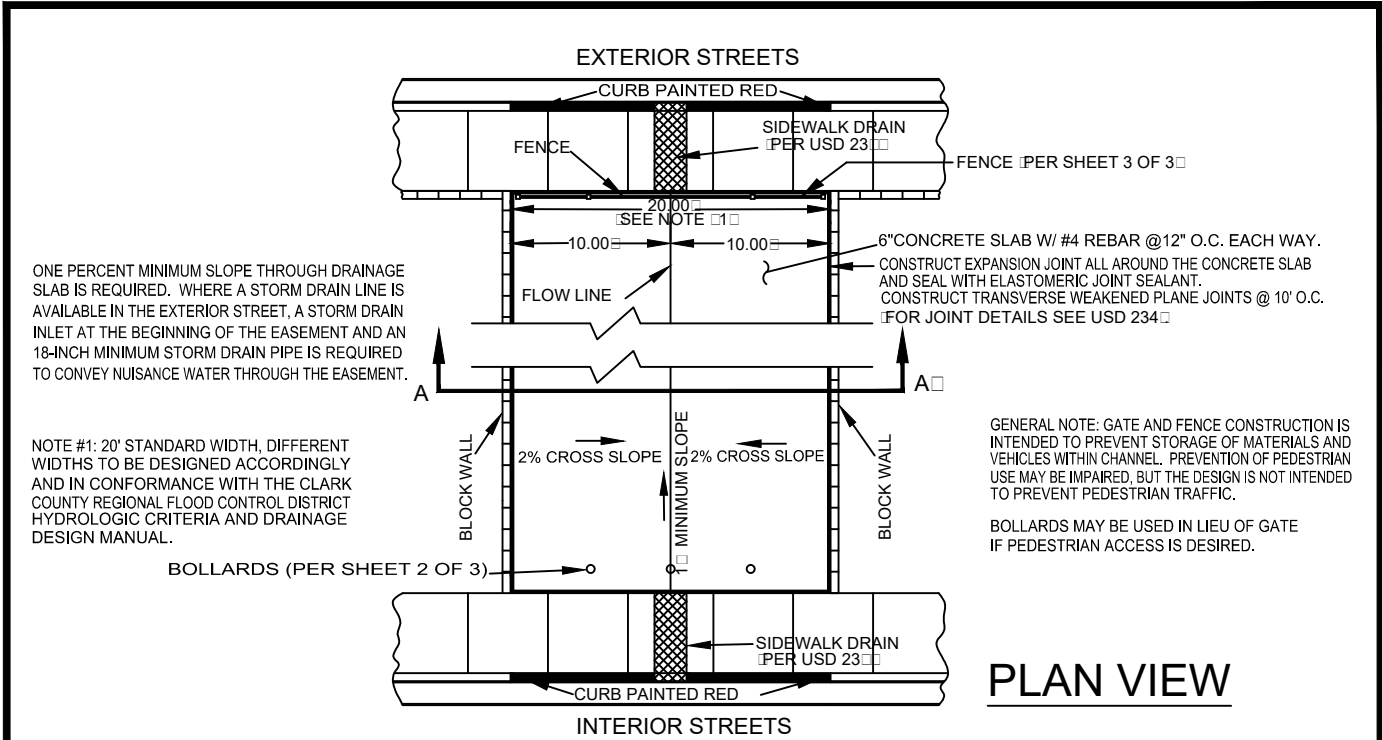
501	CONCRETE
501	CONCRETE STRUCTURES
501	REINFORCING STEEL
501	STEEL

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "CM"
DROP INLET

DATE 07-01-14 DWG. NO. 422

Effective 10/08/2020 to 12/09/2020



ONE PERCENT MINIMUM SLOPE THROUGH DRAINAGE SLAB IS REQUIRED. WHERE A STORM DRAIN LINE IS AVAILABLE IN THE EXTERIOR STREET, A STORM DRAIN INLET AT THE BEGINNING OF THE EASEMENT AND AN 18-INCH MINIMUM STORM DRAIN PIPE IS REQUIRED TO CONVEY NUISANCE WATER THROUGH THE EASEMENT.

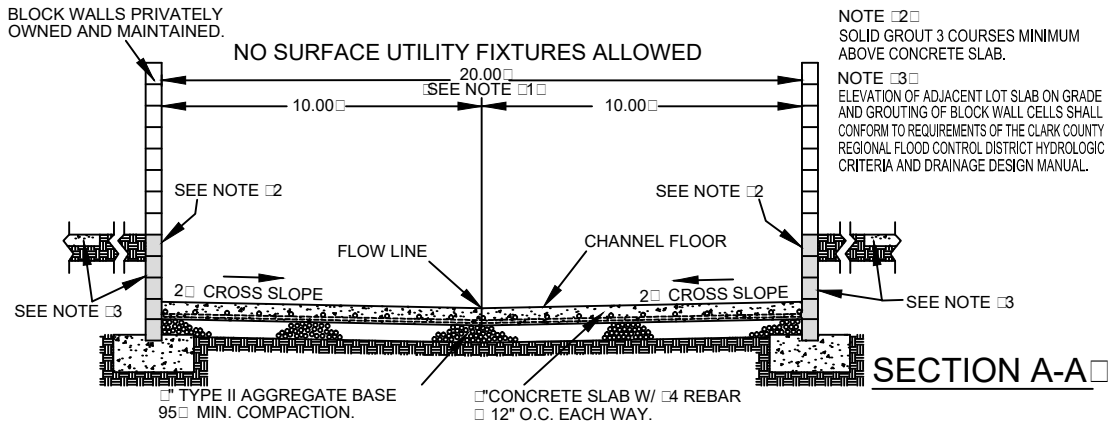
NOTE #1: 20' STANDARD WIDTH, DIFFERENT WIDTHS TO BE DESIGNED ACCORDINGLY AND IN CONFORMANCE WITH THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL.

BOLLARDS (PER SHEET 2 OF 3)

6" CONCRETE SLAB W/ #4 REBAR @12" O.C. EACH WAY.
 CONSTRUCT EXPANSION JOINT ALL AROUND THE CONCRETE SLAB AND SEAL WITH ELASTOMERIC JOINT SEALANT.
 CONSTRUCT TRANSVERSE WEAKENED PLANE JOINTS @ 10' O.C. FOR JOINT DETAILS SEE USD 234

GENERAL NOTE: GATE AND FENCE CONSTRUCTION IS INTENDED TO PREVENT STORAGE OF MATERIALS AND VEHICLES WITHIN CHANNEL. PREVENTION OF PEDESTRIAN USE MAY BE IMPAIRED, BUT THE DESIGN IS NOT INTENDED TO PREVENT PEDESTRIAN TRAFFIC.

BOLLARDS MAY BE USED IN LIEU OF GATE IF PEDESTRIAN ACCESS IS DESIRED.



BLOCK WALLS PRIVATELY OWNED AND MAINTAINED.

NO SURFACE UTILITY FIXTURES ALLOWED

NOTE #2: SOLID GROUT 3 COURSES MINIMUM ABOVE CONCRETE SLAB.

NOTE #3: ELEVATION OF ADJACENT LOT SLAB ON GRADE AND GROUTING OF BLOCK WALL CELLS SHALL CONFORM TO REQUIREMENTS OF THE CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL.

SEE NOTE #2

SEE NOTE #2

SEE NOTE #3

SEE NOTE #3

TYPE II AGGREGATE BASE
95% MIN. COMPACTION.

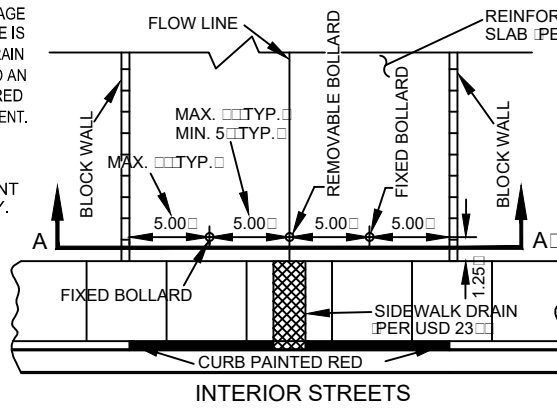
CONCRETE SLAB W/ #4 REBAR
12" O.C. EACH WAY.

NOT FOR USE IN EMERGENCY ACCESS

AGENCY APPROVED					L	
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SUPPLEMENTAL DRAWING						
THROUGH-LOT DRAIN						
DATE	07-01-14	DWG. NO.	425.S1	SHEET	1 OF 3	

ONE PERCENT MINIMUM SLOPE THROUGH DRAINAGE SLAB IS REQUIRED. WHERE A STORM DRAIN LINE IS AVAILABLE IN THE EXTERIOR STREET, A STORM DRAIN INLET AT THE BEGINNING OF THE EASEMENT AND AN 18-INCH MINIMUM STORM DRAIN PIPE IS REQUIRED TO CONVEY NUISANCE WATER THROUGH THE EASEMENT.

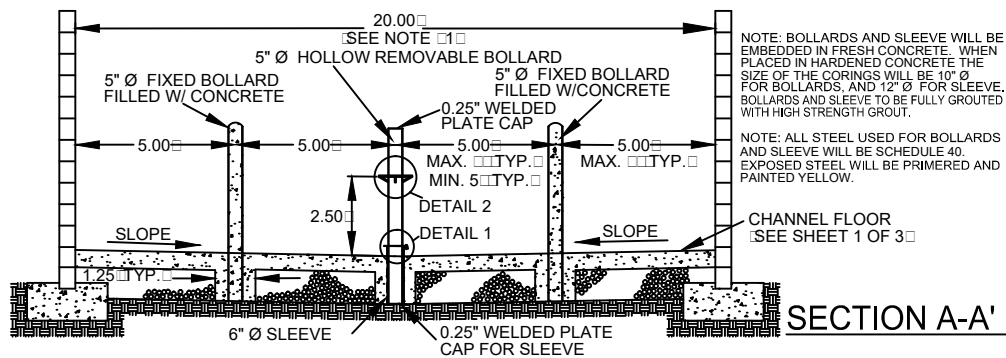
NOTE #1: 20' STANDARD WIDTH, DIFFERENT WIDTHS TO BE DESIGNED ACCORDINGLY.



GENERAL NOTE: GATE AND FENCE CONSTRUCTION IS INTENDED TO PREVENT STORAGE OF MATERIALS AND VEHICLES WITHIN CHANNEL. PREVENTION OF PEDESTRIAN USE MAY BE IMPAIRED, BUT THE DESIGN IS NOT INTENDED TO PREVENT PEDESTRIAN TRAFFIC.

BOLLARDS MAY BE USED IN LIEU OF GATE IF PEDESTRIAN ACCESS IS DESIRED.

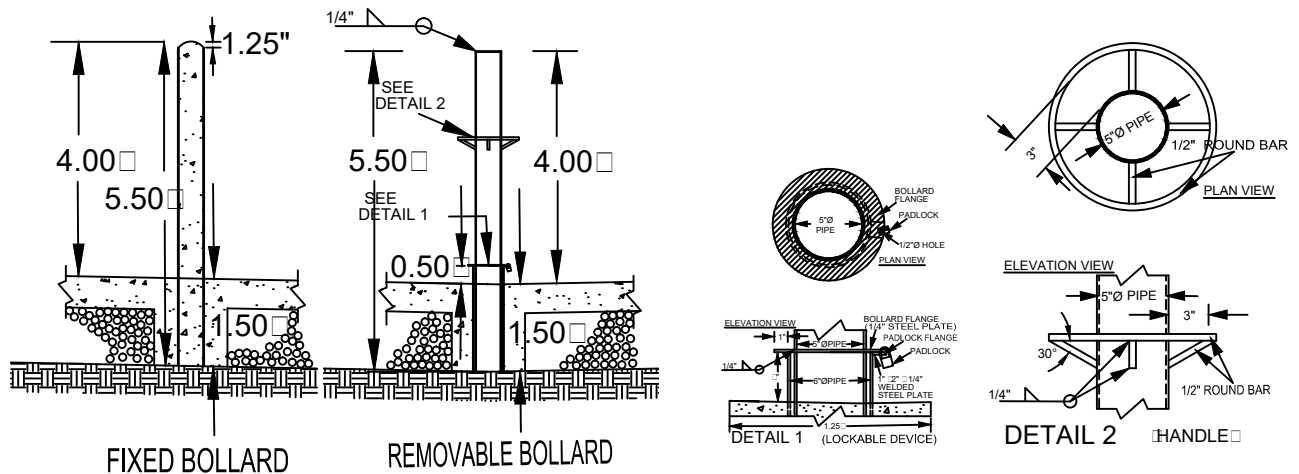
PLAN VIEW



NOTE: BOLLARDS AND SLEEVE WILL BE EMBEDDED IN FRESH CONCRETE. WHEN PLACED IN HARDENED CONCRETE THE SIZE OF THE CORINGS WILL BE 10" Ø FOR BOLLARDS, AND 12" Ø FOR SLEEVE. BOLLARDS AND SLEEVE TO BE FULLY GROUTED WITH HIGH STRENGTH GROUT.

NOTE: ALL STEEL USED FOR BOLLARDS AND SLEEVE WILL BE SCHEDULE 40. EXPOSED STEEL WILL BE PRIMERED AND PAINTED YELLOW.

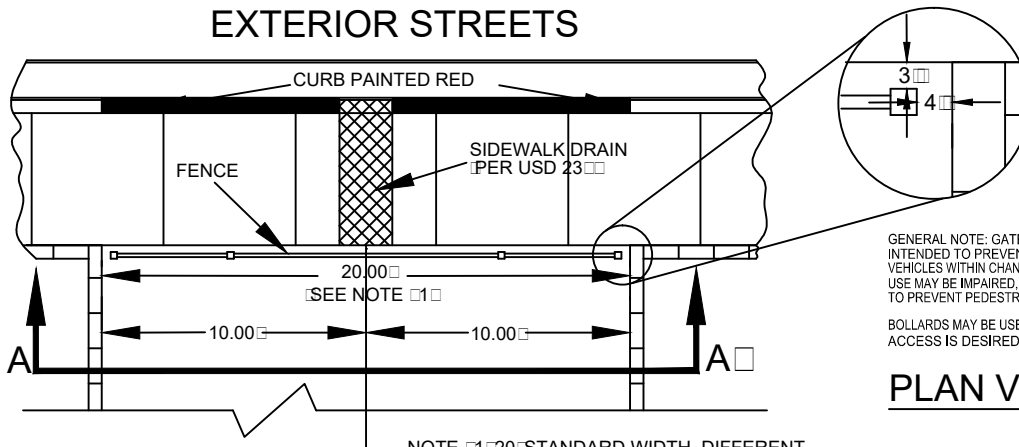
SECTION A-A'



NOT FOR USE IN EMERGENCY ACCESS

AGENCY APPROVED				L	
SPECIFICATION REFERENCE					
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
THROUGH-LOT DRAIN					
DATE	07-01-14	DWG. NO.	425.S1	SHEET	2 OF 3

EXTERIOR STREETS

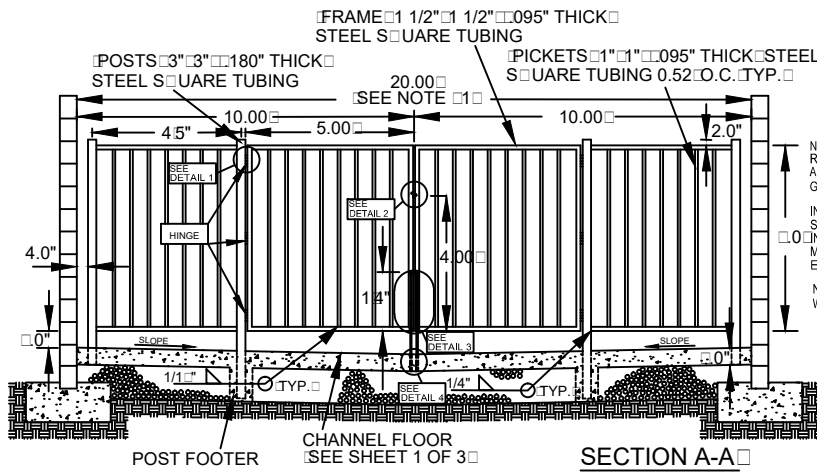


GENERAL NOTE: GATE AND FENCE CONSTRUCTION IS INTENDED TO PREVENT STORAGE OF MATERIALS AND VEHICLES WITHIN CHANNEL. PREVENTION OF PEDESTRIAN USE MAY BE IMPAIRED, BUT THE DESIGN IS NOT INTENDED TO PREVENT PEDESTRIAN TRAFFIC.

BOLLARDS MAY BE USED IN LIEU OF GATE IF PEDESTRIAN ACCESS IS DESIRED.

PLAN VIEW

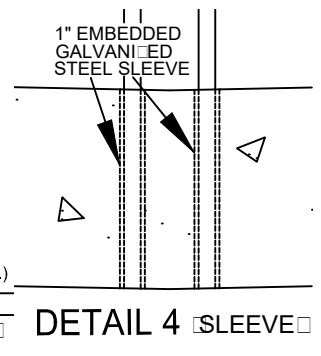
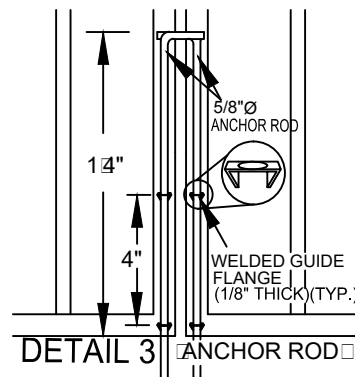
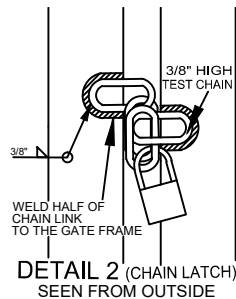
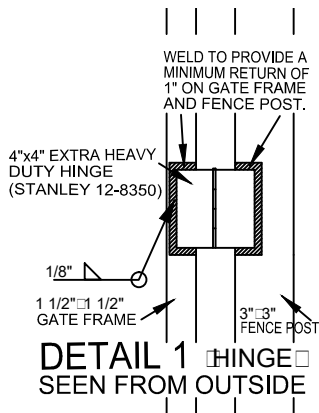
NOTE 1: 20" STANDARD WIDTH, DIFFERENT WIDTHS TO BE DESIGNED ACCORDINGLY.



NOTE: POSTS PLACED IN HARDENED CONCRETE REQUIRE AN 8"Ø CORING THROUGH THE SLAB AND BASE FULLY GROUTED WITH HIGH STRENGTH GROUT.

INTERIOR POSTS POURED MONOLITHIC WITH THE SLAB SHALL BE EMBEDDED A MINIMUM OF 18" INTO A 24"X24" FOOTER. END POSTS POURED MONOLITHIC WITH THE SLAB SHALL HAVE FULL EMBEDMENT IN THE SLAB.

NOTE: STEEL WILL BE PRIMERED AND PAINTED WHITE UNLESS OTHERWISE SPECIFIED.



NOT FOR USE IN EMERGENCY ACCESS

AGENCY APPROVED

L

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SUPPLEMENTAL DRAWING

THROUGH-LOT DRAIN

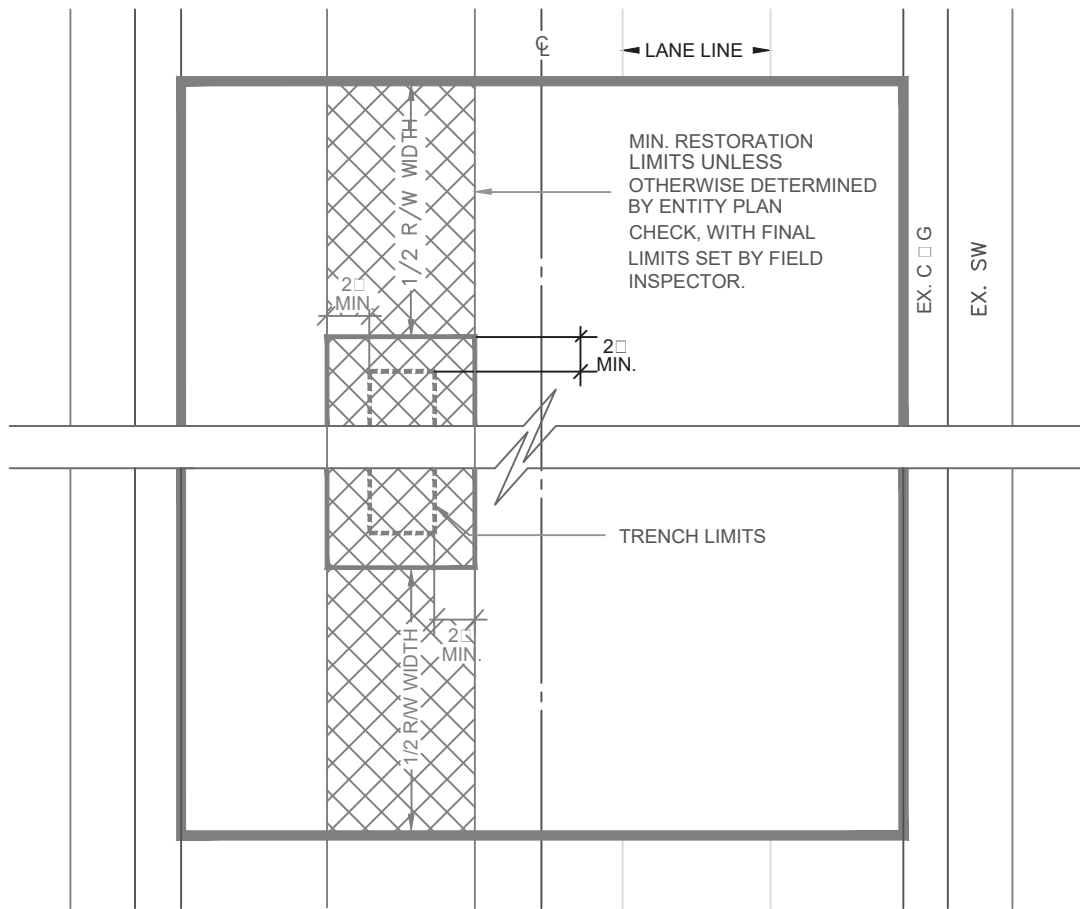
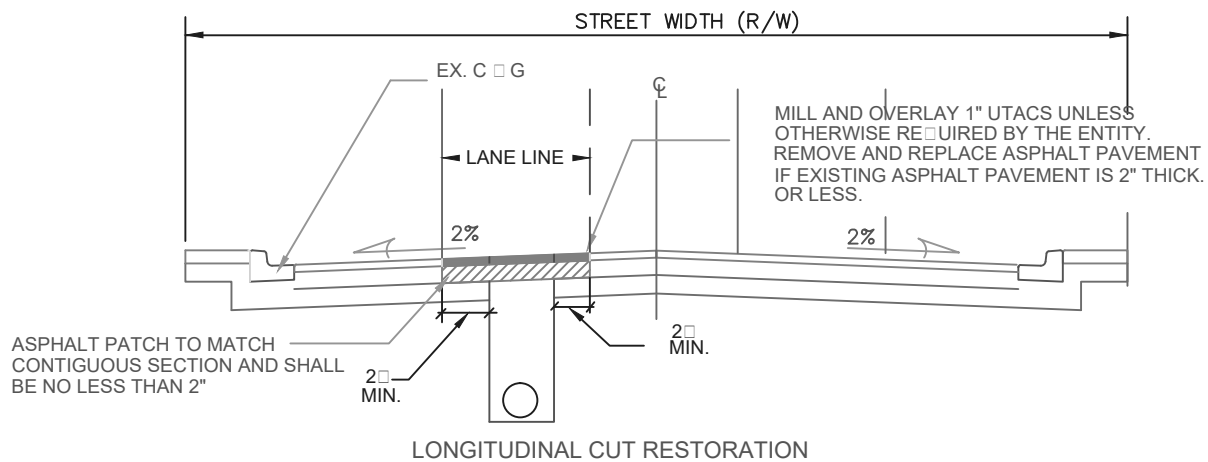
DATE 07-01-14

DWG. NO.

425.S1

SHEET

3 OF 3



NOTES

SEE DWG. 500.1 SHEET 2 OF 2

Effective 10/08/2020 to 12/09/2020

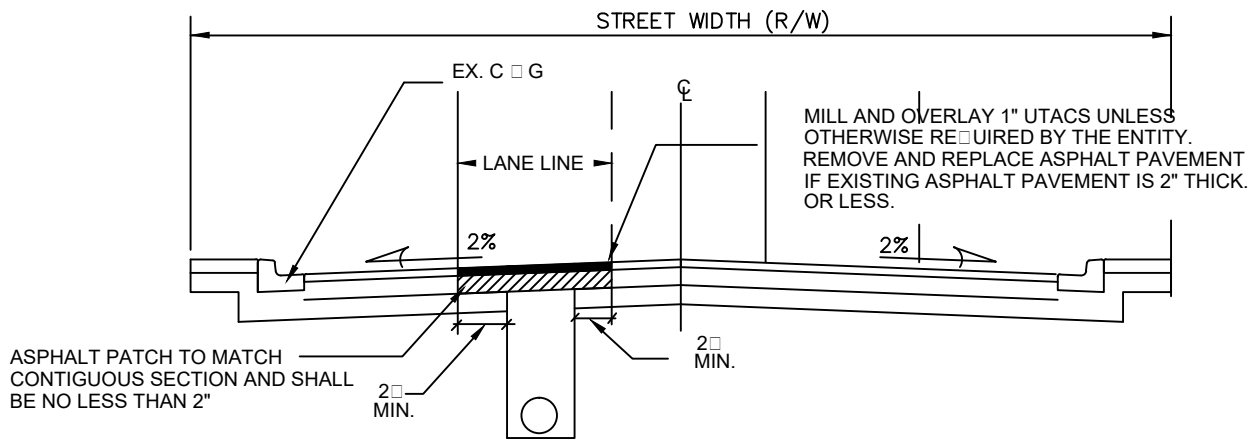
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
40	PRIME COAT
407	FOG SEAL
501	CONCRETE

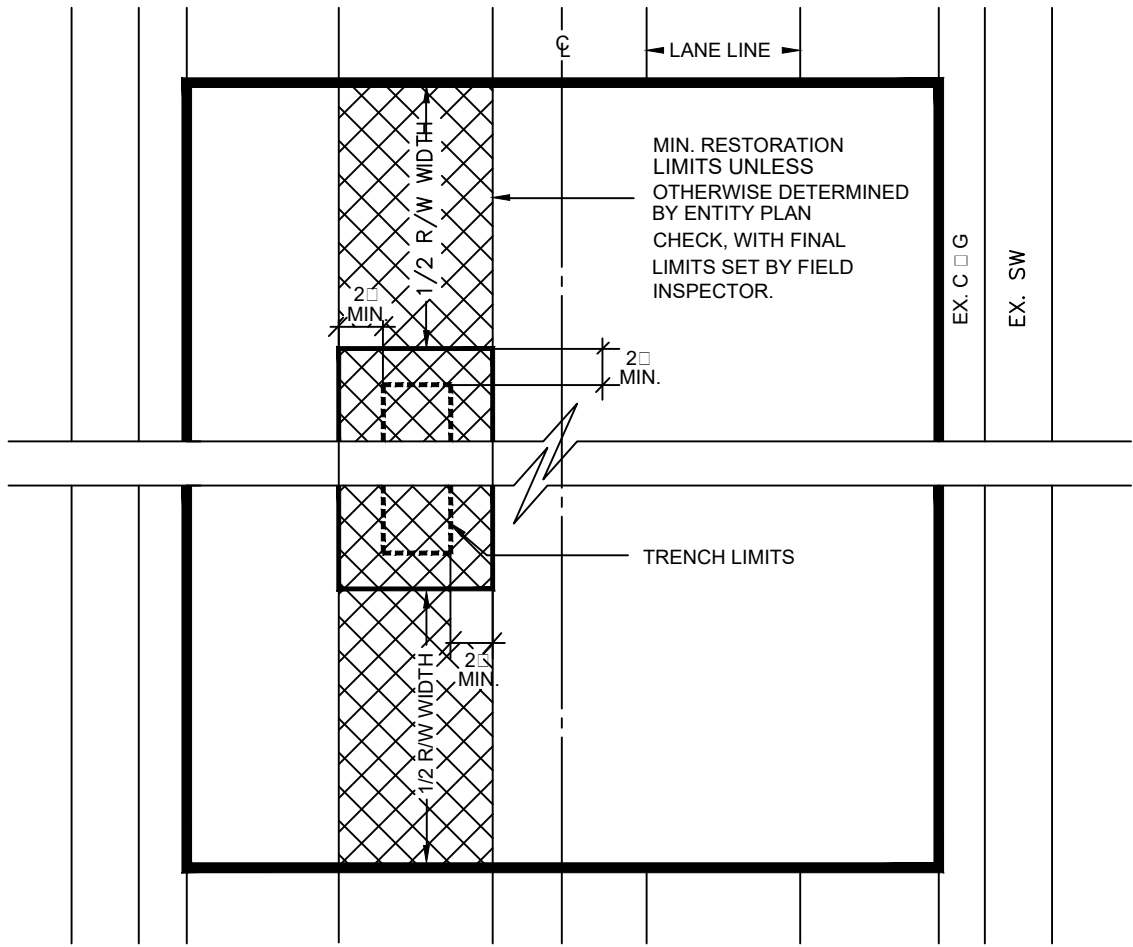
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

0 TO 5 YEARS
PAVEMENT RESTORATION
LONGITUDINAL CUT

DATE 12-08	DWG. NO. 500.1	SHEET 1 OF 2
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LONGITUDINAL CUT RESTORATION



PLAN VIEW

NOTES

SEE DWG. 500.1 SHEET 2 OF 2

Effective 10/08/2020 to 12/09/2020

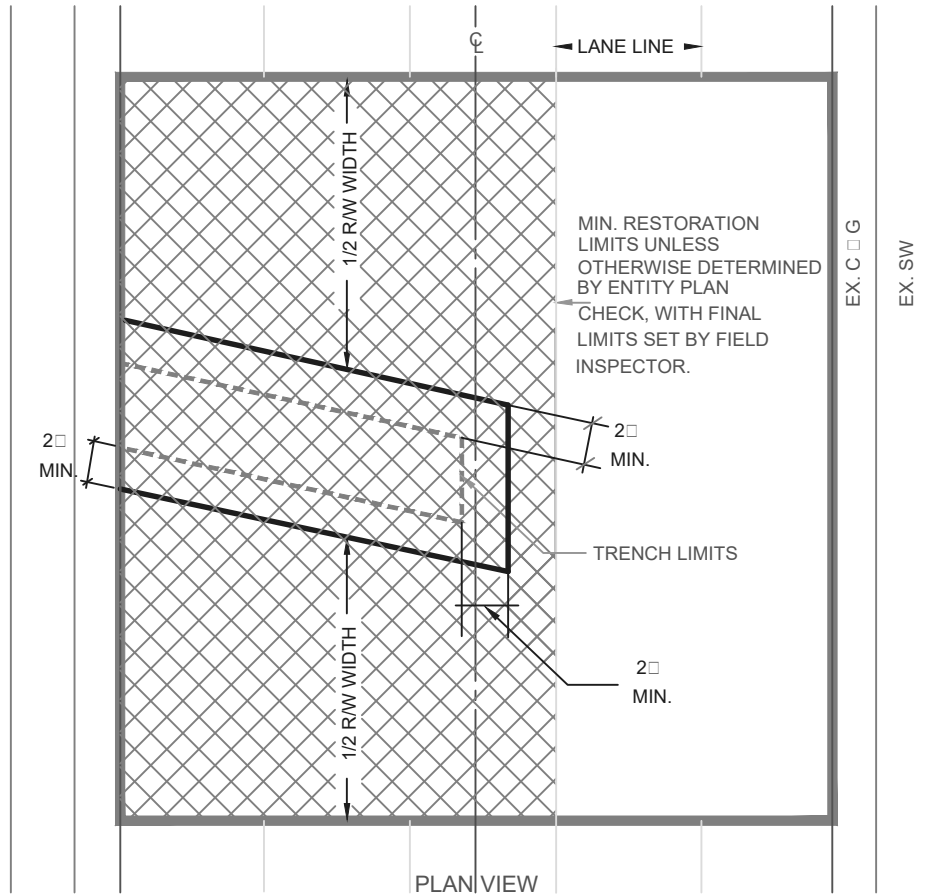
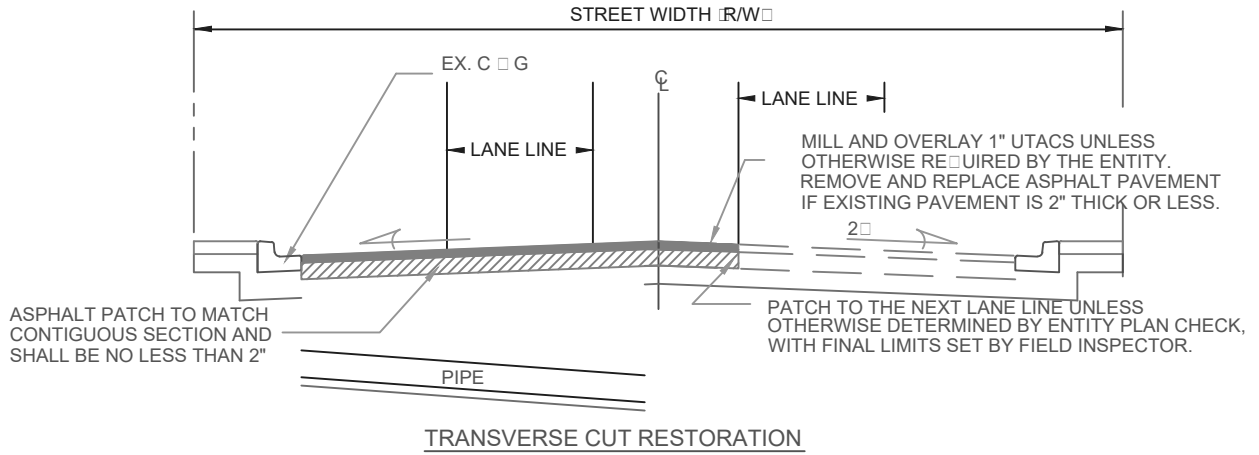
SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
302	AGGREGATE BASE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA 0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT											
401	BITUMINOUS PAVEMENT												
40	PRIME COAT												
407	FOG SEAL												
501	CONCRETE												
		DATE 12-08			DWG. NO. 500.1			SHEET 1 OF 2					

NOTES

1. IF THERE IS A MEDIAN, RESTORATION MAY BE LIMITED TO THE AREA BETWEEN C & G AND THE MEDIAN CURB.
 2. WHEN EXISTING PAVEMENT IS 2" THICK OR LESS, PAVEMENT WITHIN THE RESTORATION AREA SHALL BE REMOVED AND REPLACED IN KIND AS REQUIRED BY THE ENTITY.
 3. IF SAWCUT LINE IS WITHIN FIVE FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR EXISTING SAWCUT LINE, MILL AND OVERLAY OR REPLACE TO THAT EDGE.
 4. PAVEMENT RESTORATION AREA SAWCUT LINES SHALL NOT FALL WITHIN STREET INTERSECTION.
 5. IF CUT IS WITHIN A LANE , PAVEMENT RESTORATION MUST EXTEND TO THE NEXT LANE LINE.
- THE ENTITY'S REQUIREMENTS TAKE PRECEDENCE OVER ANY MINIMUM REQUIREMENTS SHOWN HEREON.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE	0 TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT						
401	BITUMINOUS PAVEMENT							
40□	PRIME COAT							
407	FOG SEAL							
501	CONCRETE							
.		DATE □-12-08	DWG. NO. 500.1			SHEET 2 OF 2		



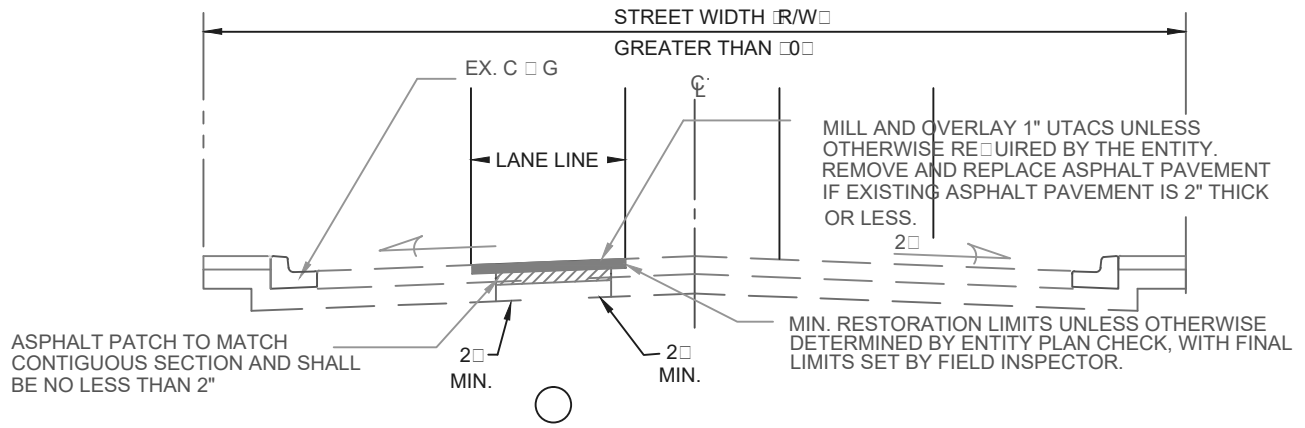
NOTES

1. IF THERE IS MEDIAN, RESTORATION MAY BE LIMITED TO THE AREA BETWEEN C TO CURB OF MEDIAN.
2. IF SAWCUT LINE IS WITHIN FIVE FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR EXISTING SAWCUT LINE, MILL AND OVERLAY OR REPLACE TO THAT EDGE.
3. WHEN EXISTING PAVEMENT IS LESS 2" THICK OR LESS, PAVEMENT WITHIN THE RESTORATION AREA SHALL BE REMOVED AND REPLACED IN KIND AS REQUIRED BY THE ENTITY.
4. PAVEMENT RESTORATION AREA SAWCUT LINES SHALL NOT FALL WITHIN STREET INTERSECTION.
5. IF CUT IS WITHIN A LANE, PAVEMENT RESTORATION MUST EXTEND TO THE NEXT LANE LINE.
6. THE ENTITY'S REQUIREMENTS TAKE PRECEDENCE OVER ANY MINIMUM REQUIREMENTS SHOWN HEREON.

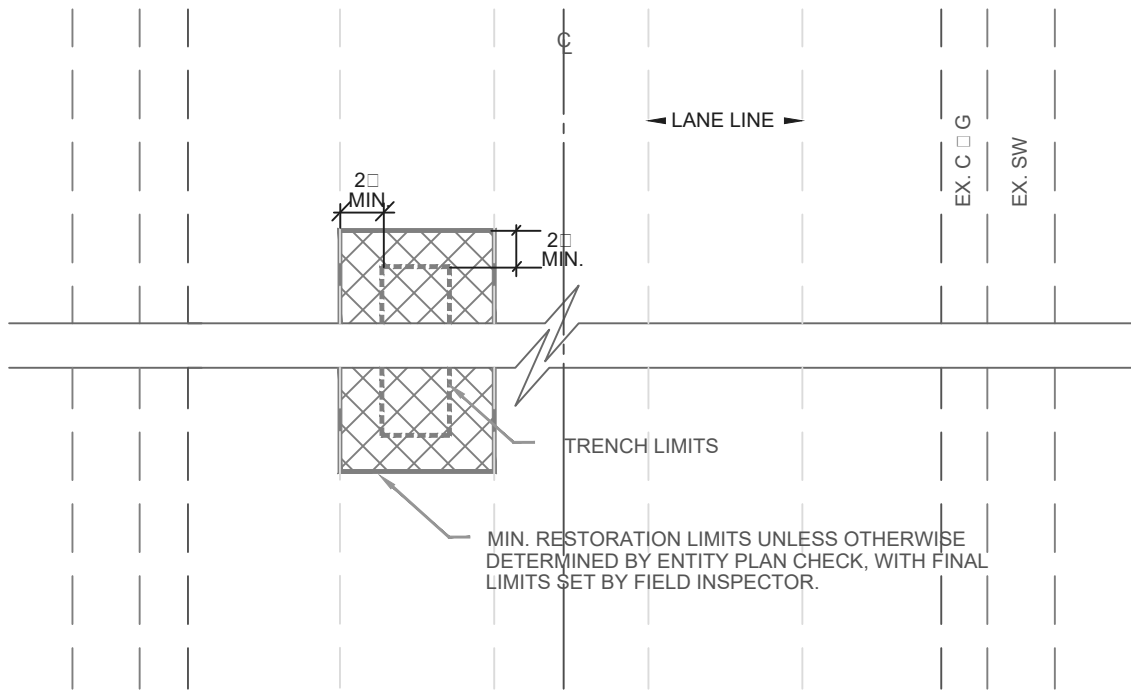
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
40	PRIME COAT
407	FOG SEAL
501	CONCRETE

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
0 TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT	
DATE 12-08	DWG. NO. 500.2



LONGITUDINAL CUT RESTORATION

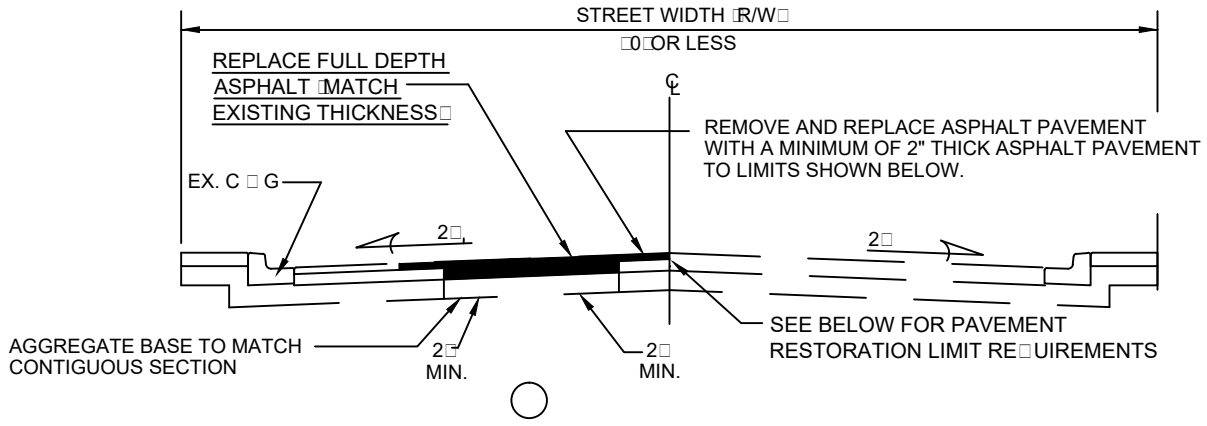


PLAN VIEW

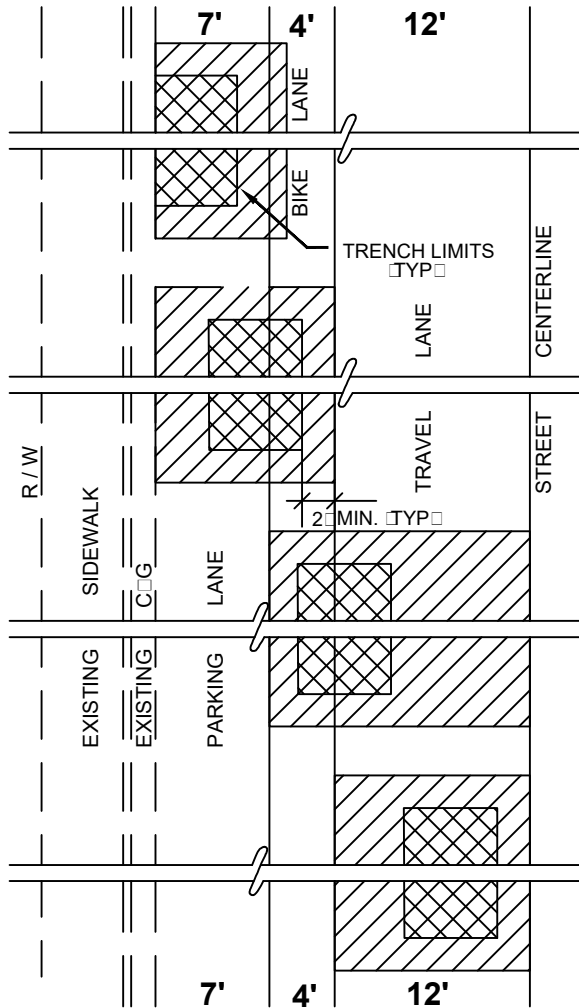
NOTES

1. IF CUT IS WITHIN A LANE, PAVEMENT RESTORATION MUST EXTEND TO THE NEXT LANE LINE.
2. THE ENTITY'S REQUIREMENTS TAKE PRECEDENCE OVER ANY MINIMUM REQUIREMENTS SHOWN HEREON.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE	OVER 5 YEARS PAVEMENT RESTORATION - LONGITUDINAL CUT- GREATER THAN 10 FT. RIGHT-OF-WAY						
401	BITUMINOUS PAVEMENT							
40	PRIME COAT							
407	FOG SEAL							
501	CONCRETE							
		DATE 12-08	DWG. NO. 500.3					



LONGITUDINAL CUT RESTORATION



1

IF TRENCH EDGE IS 5-FT OR LESS FROM LIP OF GUTTER, THEN REPLACE 8-FT (MIN.) OF ASPHALT.

2

IF TRENCH EDGE IS BETWEEN 5-FT & 9-FT FROM LIP OF GUTTER, THEN REPLACE 11-FT (MIN.) OF ASPHALT.
EXCEPTION FOR RESIDENTIAL STREETS 51-FT OR LESS, REPLACE FULL HALF STREET.

3

IF TRENCH EDGE IS BETWEEN 10-FT & 14-FT FROM CENTERLINE, THEN REPLACE 16-FT (MIN.) OF ASPHALT.
EXCEPTION FOR RESIDENTIAL STREETS 51-FT OR LESS, REPLACE FULL HALF STREET.

4

IF TRENCH EDGE IS BETWEEN 2-FT & 10-FT FROM CENTERLINE, THEN REPLACE 12-FT (MIN.) OF ASPHALT.

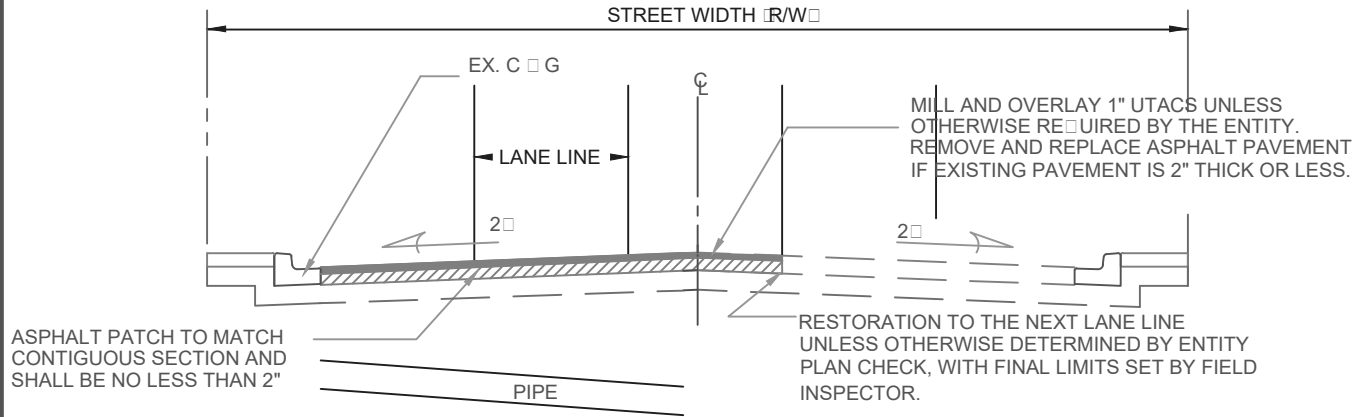
NOTES

1. IF CUT IS WITHIN A MARKED LANE, PAVEMENT RESTORATION MUST EXTEND TO THE MARKED LANE LINE.
2. THE ENTITY'S REQUIREMENTS TAKE PRECEDENCE OVER ANY MINIMUM REQUIREMENTS SHOWN HEREON.
3. MINIMUM ASPHALT REPLACEMENT WIDTH SHALL NOT BE LESS THAN THE LIMITS OF THE PAVING MACHINERY USED.

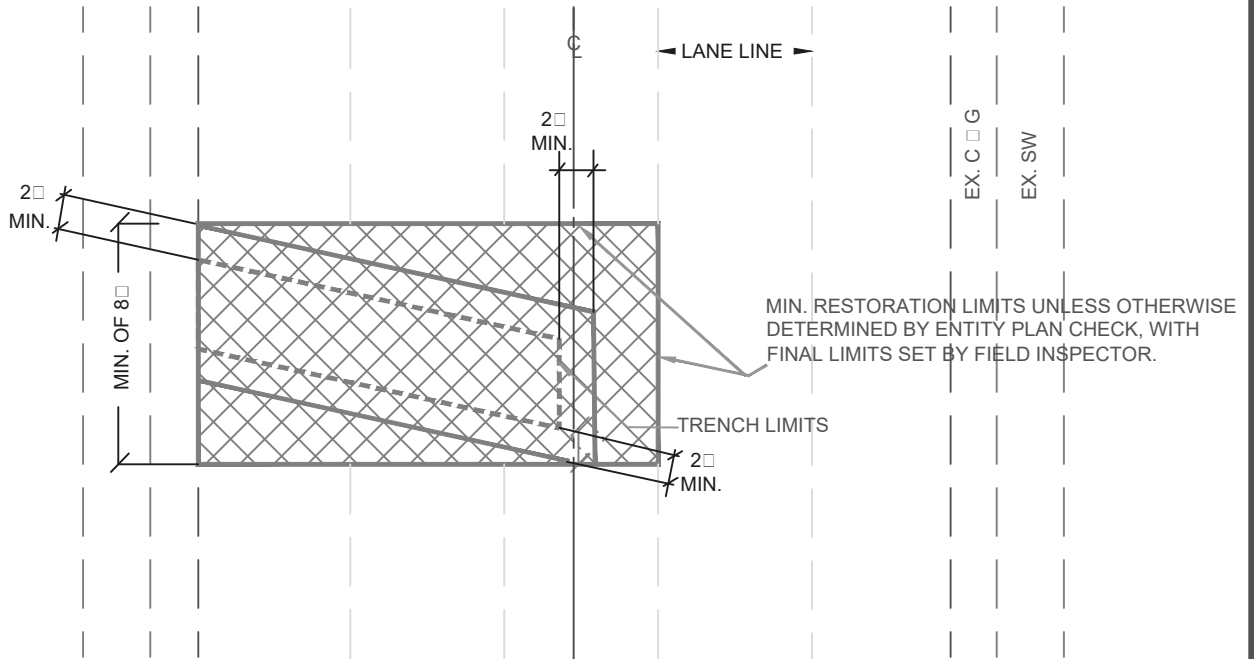
PLAN VIEW

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT - OR LESS						
DATE 12-08	DWG. NO.	500.4				

SPECIFICATION REFERENCE	
302	AGGREGATE BASE
401	BITUMINOUS PAVEMENT
40	PRIME COAT
407	FOG SEAL
501	CONCRETE



TRANSVERSE CUT RESTORATION



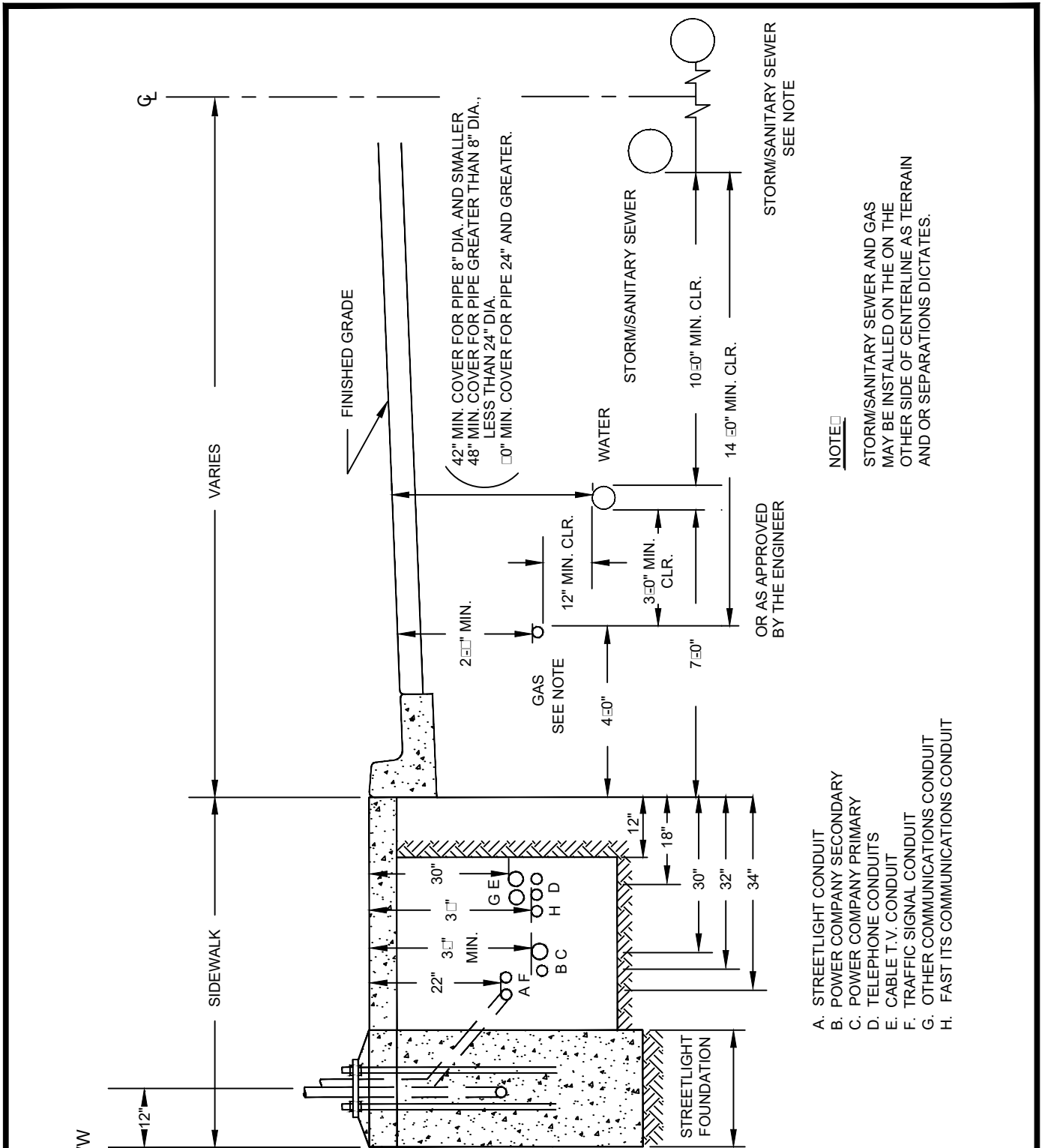
PLAN VIEW

NOTES

1. IF CUT IS WITHIN A LANE, PAVEMENT RESTORATION MUST EXTEND TO THE NEXT LANE LINE.
2. THE ENTITY'S REQUIREMENTS TAKE PRECEDENCE OVER ANY MINIMUM REQUIREMENTS SHOWN HEREON.

Effective 10/08/2020 to 12/09/2020

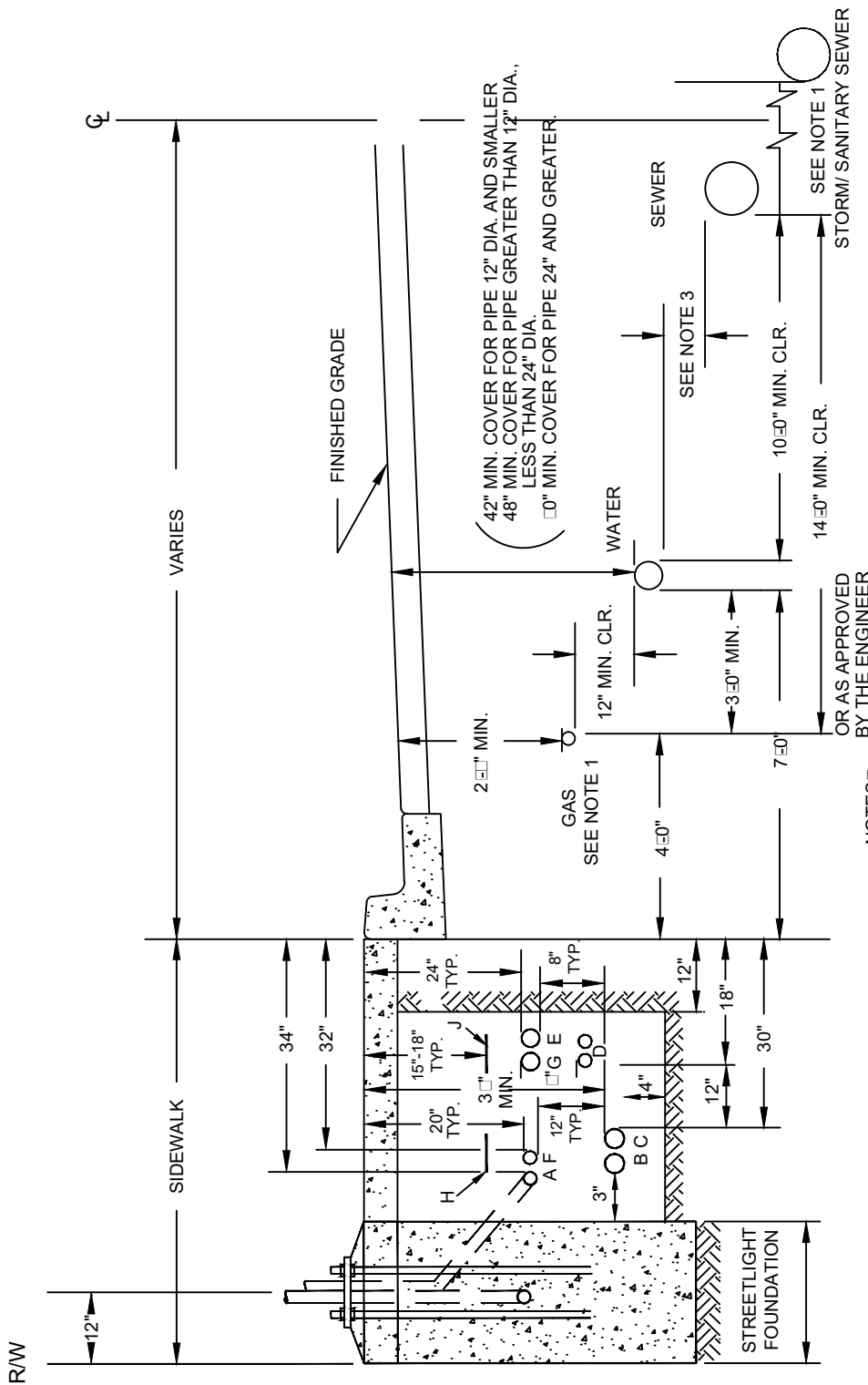
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE	OVER 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT ALL RIGHT-OF-WAY WIDTHS						
401	BITUMINOUS PAVEMENT							
40	PRIME COAT							
407	FOG SEAL							
501	CONCRETE							
		DATE 12-08	DWG. NO. 500.5					



- A. STREETLIGHT CONDUIT
- B. POWER COMPANY SECONDARY
- C. POWER COMPANY PRIMARY
- D. TELEPHONE CONDUITS
- E. CABLE T.V. CONDUIT
- F. TRAFFIC SIGNAL CONDUIT
- G. OTHER COMMUNICATIONS CONDUIT
- H. FAST ITS COMMUNICATIONS CONDUIT

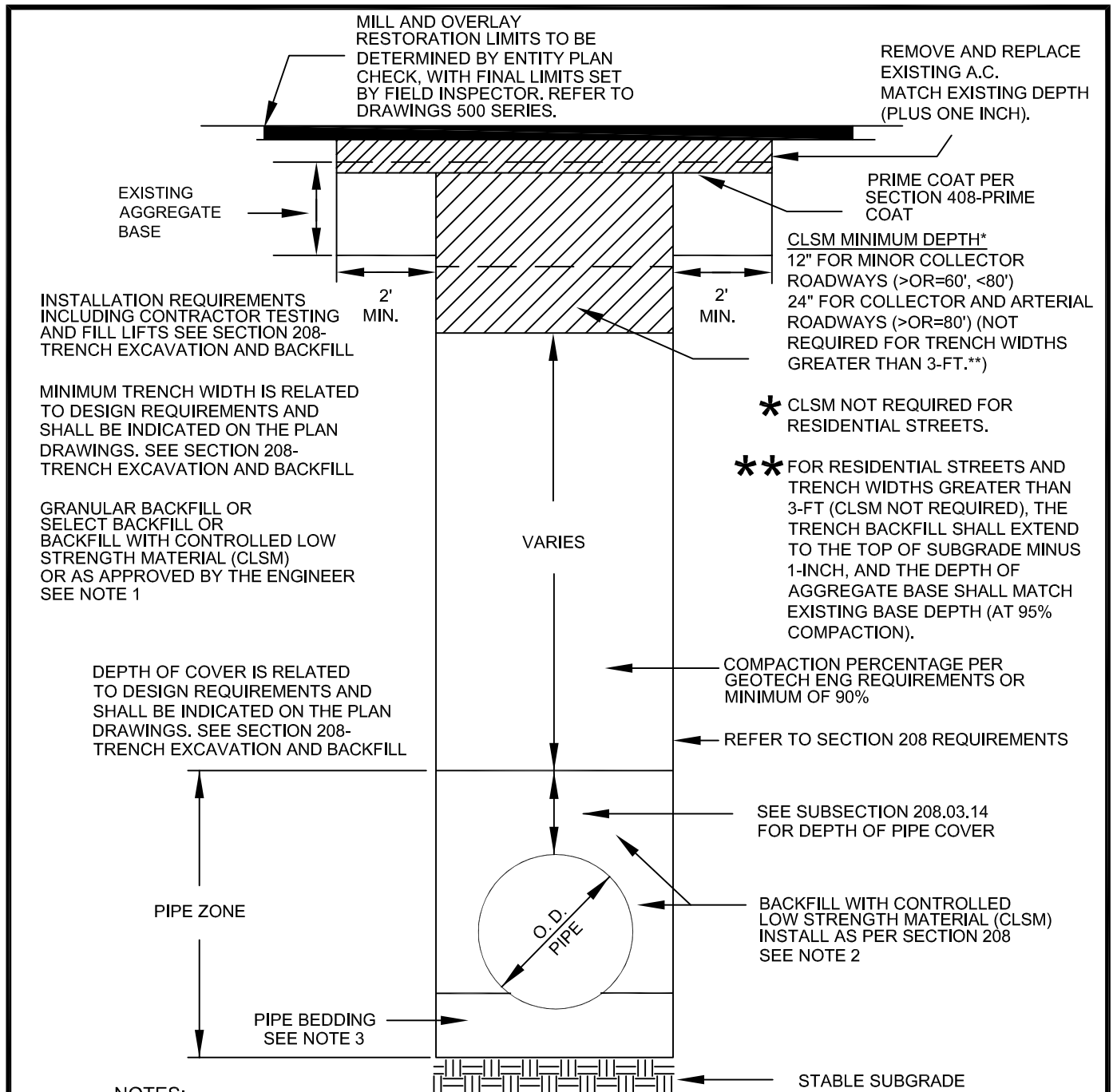
NOTE
STORM/SANITARY SEWER AND GAS
MAY BE INSTALLED ON THE ON THE
OTHER SIDE OF CENTERLINE AS TERRAIN
AND OR SEPARATIONS DICTATES.

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPICAL UNDERGROUND UTILITY LOCATIONS IN STREETS WITH GREATER THAN 10 FT. RIGHT-OF-WAY						
		DATE 08-09-18	DWG. NO.	501.1				



- NOTES**
- STREETLIGHT CONDUIT
 - POWER COMPANY SECONDARY
 - POWER COMPANY PRIMARY
 - TELEPHONE CONDUITS
 - CABLE T.V. CONDUIT
 - TRAFFIC SIGNAL CONDUIT
 - OTHER COMMUNICATIONS CONDUIT
 - POWER MARKING TAPE
 - TELEPHONE MARKING TAPE
- STORM/SANITARY SEWER AND GAS MAY BE LOCATED ON OTHER SIDE OF CENTERLINE AS TERRAIN AND/OR SEPARATIONS DICTATES.
 - STREETLIGHT FOUNDATIONS SHALL BE LOCATED BEHIND SIDEWALK FOR SIDEWALK WIDTHS LESS THAN 5 FEET PER STANDARD DRAWING NO. 320.
 - SEPARATION DISTANCE SHALL CONFORM TO UTILITY STANDARDS ADOPTED BY THE GOVERNING AGENCY FOR SEWER AND WATER FACILITIES.
 - STREET CONSTRUCTION SHALL CONFORM TO THE DESIGNED PLANS.
 - UTILITY CONSTRUCTION BACKFILL SHALL CONFORM TO SECTION 208.
 - UTILITY LINES SHALL BE RE-ROUTED IF DROP INLET IS IN CONFLICT.
 - WATER TRANSMISSION MAIN SEPARATION SHALL BE REFERRED TO WATER PURVEYOR GUIDELINES.

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS WITH 10 FT. OR LESS RIGHT-OF-WAY						
		DATE 08-09-18	DWG. NO.	501				

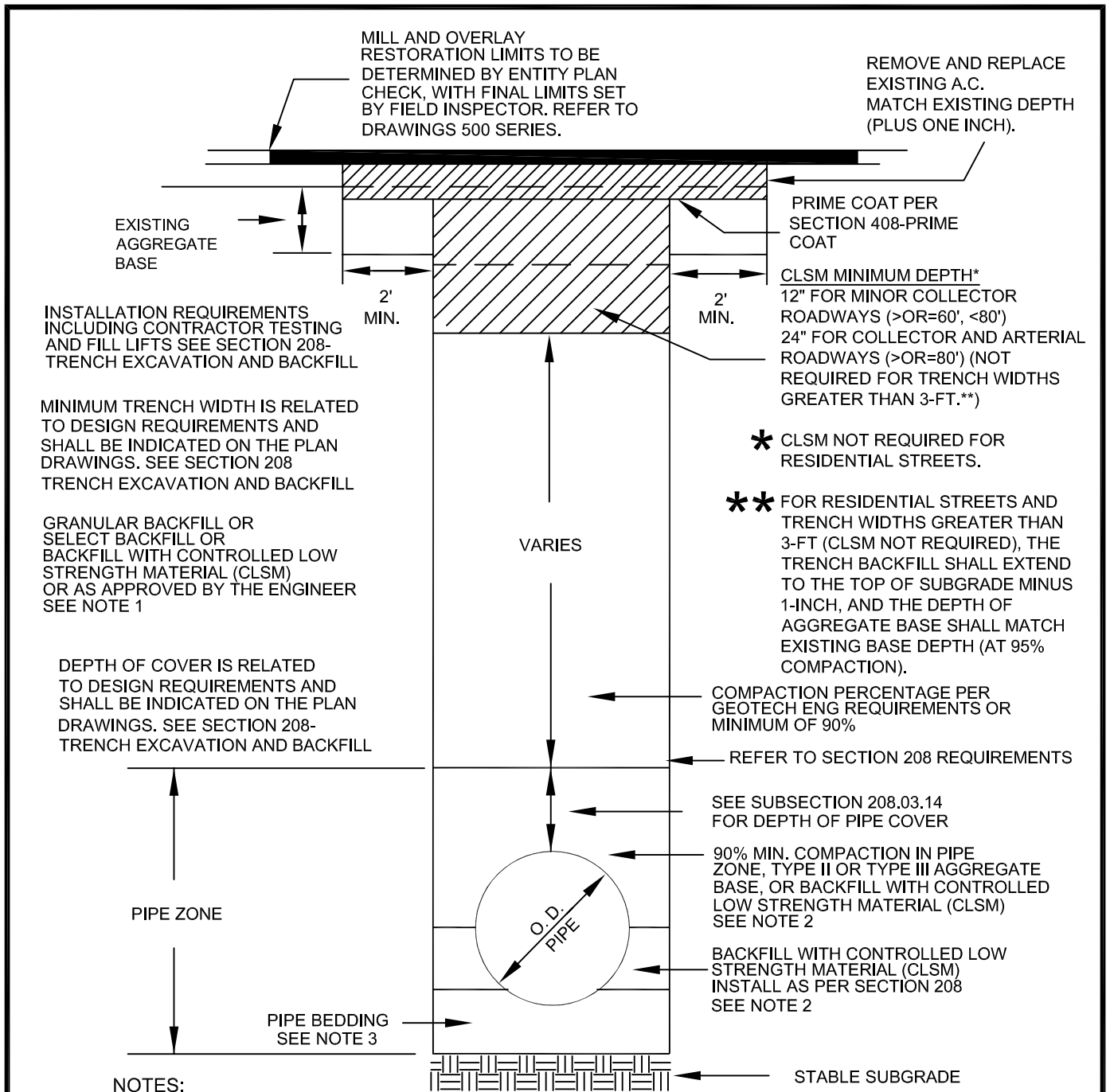


NOTES:

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
208	TRENCH EXCAVATION & BACKFILL	METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS				
302	AGGREGATE BASE COURSES					
DATE 01-01-12		DWG. NO.	503.1			



NOTES:

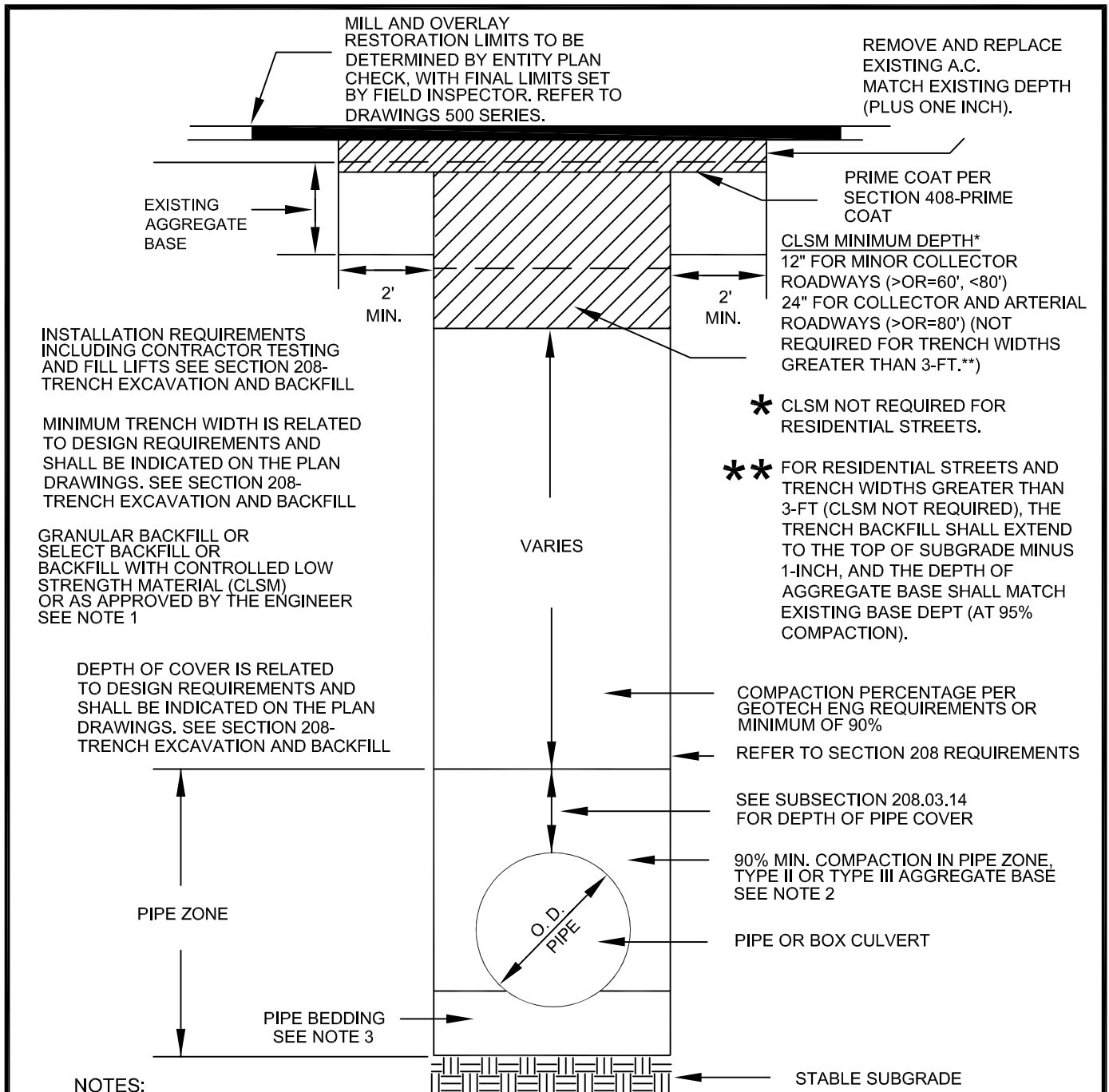
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
208	TRENCH EXCAVATION & BACKFILL
302	AGGREGATE BASE COURSES

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
METHOD A FOR RIGID PIPE TRENCH BACKFILL - PAVED AREAS	
DATE 01-01-12	DWG. NO. 503.2

Effective 10/08/2020 to 12/09/2020



NOTES:

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

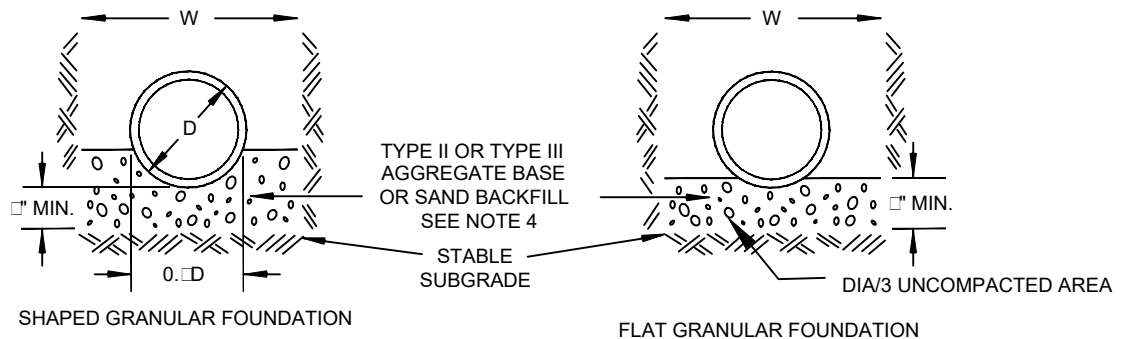
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
208	TRENCH EXCAVATION & BACKFILL
302	AGGREGATE BASE COURSES

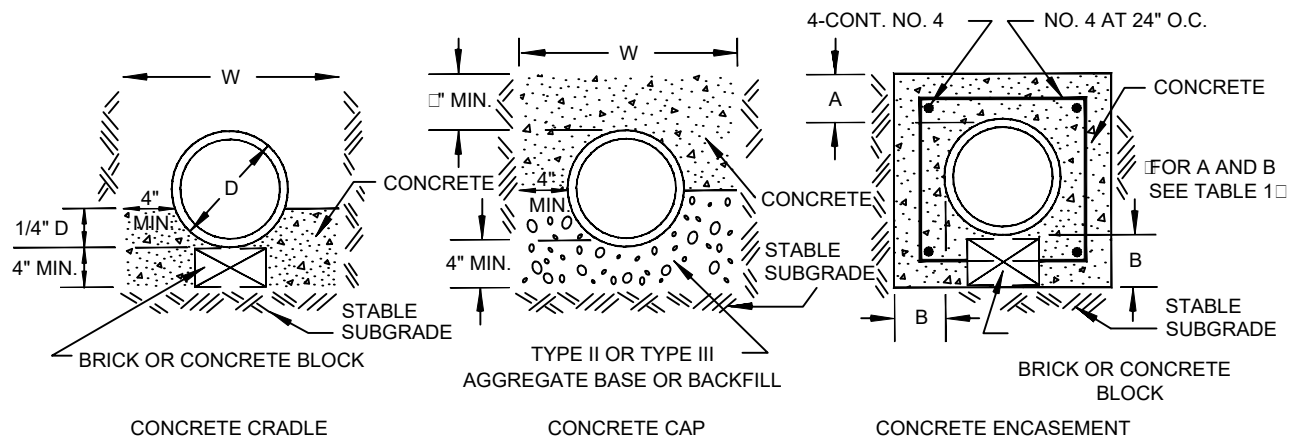
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS	

DATE 01-01-12	DWG. NO. 503
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Effective 10/08/2020 to 12/09/2020



NORMAL BEDDING



CONCRETE BEDDING

PIPE SIZE	PIPE		PIPE SIZE	PIPE	
	B	A		B	A
4"	4"	4"	24"	4"	4"
8"	4"	4"	27"	7"	4"
10"	4"	4"	30"	8"	4"
12"	4"	4"	33"	8"	4"
15"	4"	4"	36"	9"	4"
18"	5"	5"	39"	9"	4"
21"	5"	5"	42"	10"	4"

D □ OUTSIDE DIAMETER OF PIPE
W □ OUTSIDE DIAMETER OF PIPE + 24" MAXIMUM

NOTES

1. PIPE BEDDING TO BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY. SUBGRADE SHALL CONFORM TO RESPECTIVE ENTITY REQUIREMENTS.
2. INDICATED THICKNESS OF BEDDING MATERIAL TO BE CONSTRUCTED UNDER THE BARREL. SUBGRADE TO BE EXCAVATED TO PROVIDE 2" CLEARANCE UNDER THE BELL.
3. OTHER BEDDING METHODS MAY BE SPECIFIED OR APPROVED.
4. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY.

AGENCY APPROVED	B	C	H	L	M	N
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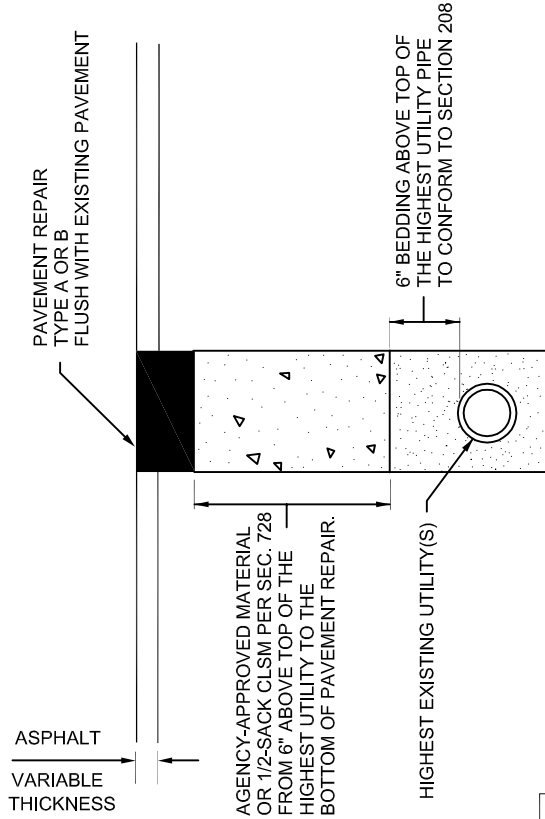
SPECIFICATION REFERENCE	
208	TRENCH EXCAVATION □ BACKFILL
302	AGGREGATE BASE COURSES
501	CONCRETE
505	REINFORCEMENT STEEL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
PIPE TRENCH BEDDING METHODS	
DATE 11-9-0□	DWG. NO. 505

Effective 10/08/2020 to 12/09/2020

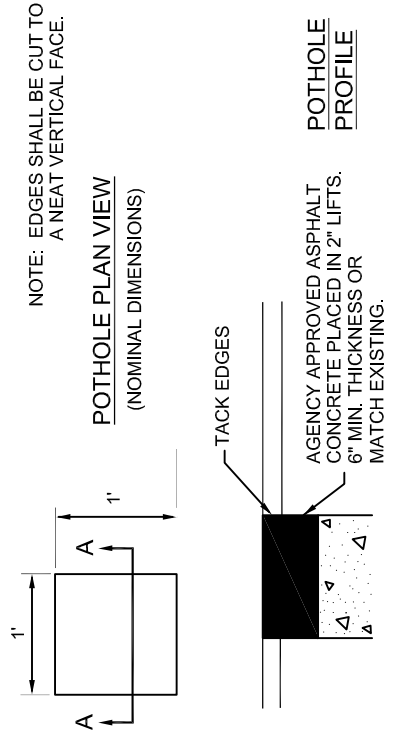
SPECIFICATION REFERENCE	
215	KEYHOLE POT HOLE EXCAVATION AND BACKFILL

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
UTILITY POT HOLE REPAIR						
DATE 01-01-12	DWG. NO.	506				



SECTION A-A

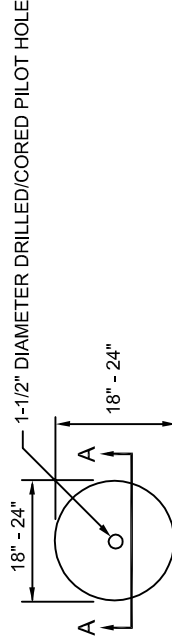
**TYPE A - CUT & PATCH REPAIR
OPTIONAL FOR ROW WIDTH 60' OR LESS**



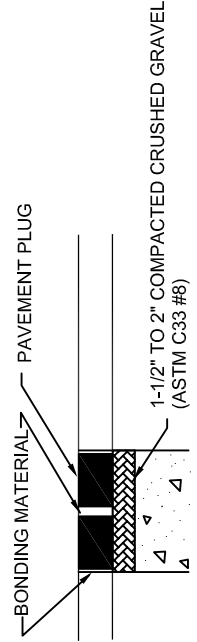
**TYPE B - KEYHOLE REPAIR
REQUIRED FOR ROW WIDTH GREATER THAN 60'
OPTIONAL FOR ROW WIDTH 60' OR LESS**

NOTES:

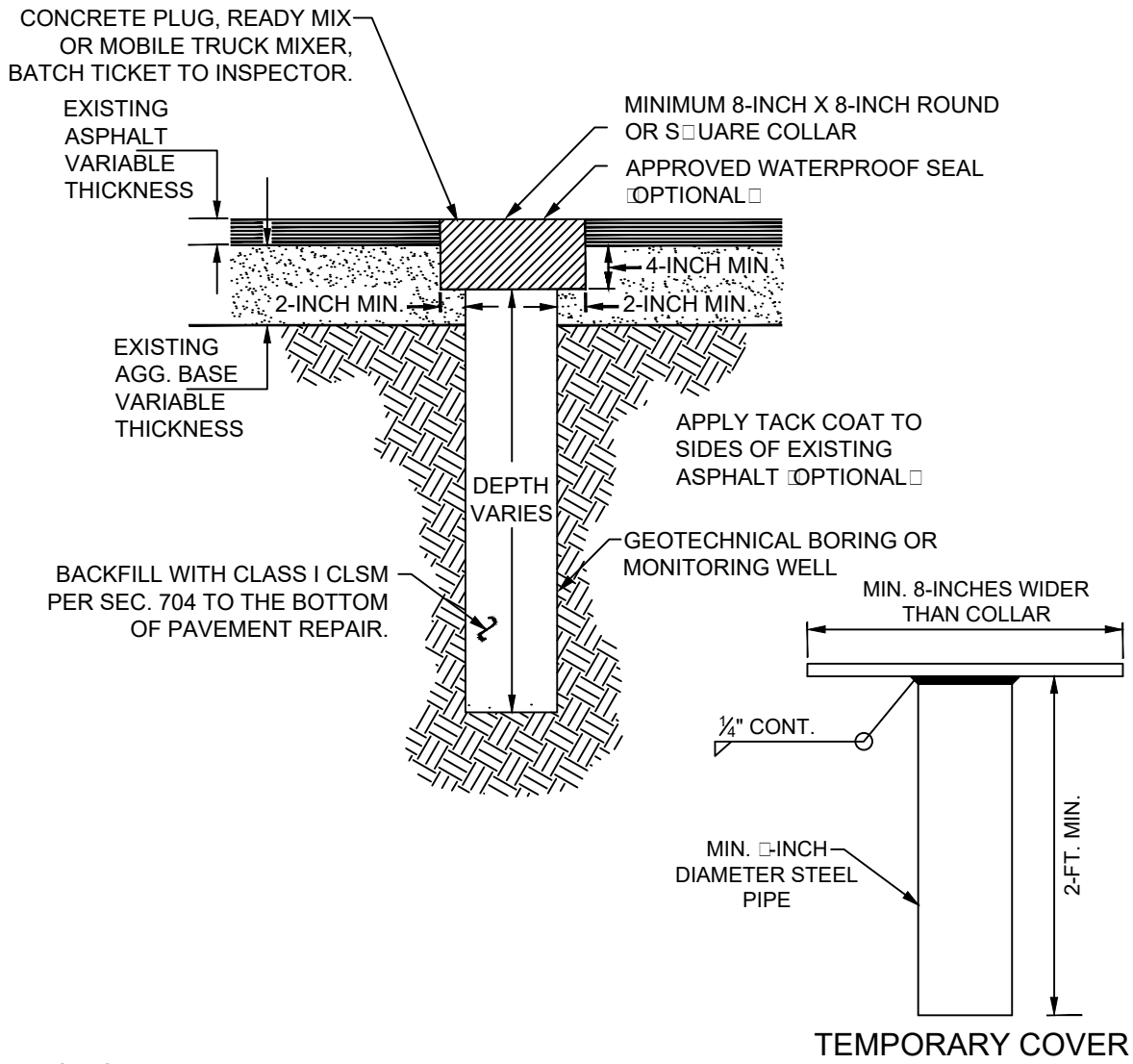
1. CUT AND REMOVE PAVEMENT PLUG WITH AN APPROVED KEYHOLE CORING DEVICE. PAVEMENT TO BE CORED SHALL CONTAIN NO CRACKS AND SHALL BE AT LEAST 4" THICK. IF PLUG IS DAMAGED OR IS LESS THAN 4" THICK, REPLACE PLUG WITH A "FARMED" ASPHALT PLUG FROM AN APPROVED SITE. FARMED PLUGS SHALL BE AT LEAST 4" THICK AND AT LEAST ONE INCH THICKER THAN EXISTING ASPHALT.
2. BONDING MATERIAL SHALL BE A SINGLE COMPONENT CEMENTITIOUS RAPID HARDENING, HIGH STRENGTH, WATERPROOF BONDING AGENT THAT ALLOWS THE CORE TO SUPPORT AT LEAST THREE TIMES ASHTO H-25 LOADING WITHIN 30 MINUTES OF APPLICATION. BOND AGENT MUST SHOW A MINIMUM 20 PSI BOND STRENGTH (ASTM C882) AND A MINIMUM 200 PSI COMPRESSIVE STRENGTH (ASTM C109) IN 30 MINUTES.
3. AGENCY-APPROVED BACKFILL BELOW REPAIR SHALL BE PER SECTION 215.
4. FILL KEYHOLE WITH BONDING MATERIAL DURING REPAIR.
5. PRIOR AGENCY APPROVAL IS REQUIRED FOR MULTIPLE KEYHOLE REPAIRS WITHIN A GIVEN ROADWAY SEGMENT.
6. A 5 YEAR WARRANTY IS REQUIRED ON ALL REPAIRS.



**POT HOLE PLAN VIEW
(NOMINAL DIMENSIONS)**



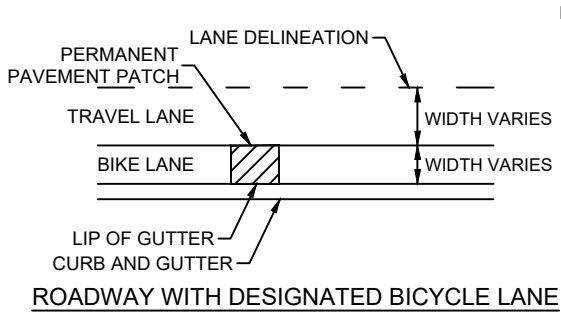
POT HOLE PROFILE



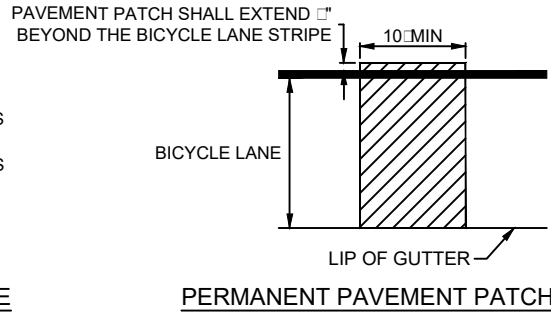
NOTES

1. CALL AND SCHEDULE INSPECTION TO OBSERVE CONCRETE PLUG AFTER PLACEMENT.
2. PERMIT TYPICALLY VALID FOR 30 DAYS - EXTENSION OF PERMIT IS REQUIRED PRIOR TO EXPIRATION IF WORK IS NOT COMPLETE.
3. FOR BORINGS GREATER THAN 12-INCHES IN DIAMETER, SUBMIT PERMANENT PATCHING PLAN WITH PERMIT APPLICATION.
4. IF GROUNDWATER IS ENCOUNTERED FOLLOW APPROPRIATE AGENCY REQUIREMENTS.
5. THE CONNECTION OF THE PIPE AND FLAT PLATE SHALL BE CONTINUOUSLY WELDED ALL OF THE WAY AROUND. THE SIZE OF THE WIRE SHALL BE 0.35 WIRE (ER70S-2) OR 7018 ROD, AND THE WELDER SHALL HAVE A W.S. CERTIFICATION IN FLAT PLATE.

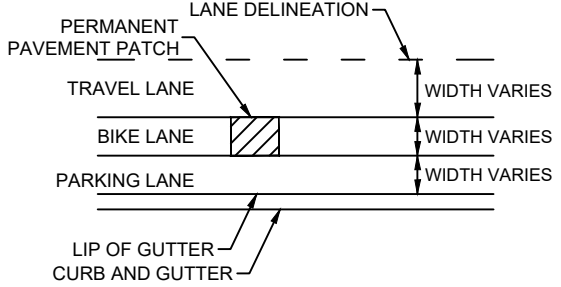
		AGENCY APPROVED		C			
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
208	TRENCH EXCAVATION AND BACKFILL	SUPPLEMENTAL DRAWING					
		METHOD FOR GEOTECHNICAL BORING AND MONITORING WELL BACKFILL AND PATCH FOR BORINGS 12-INCHES OR LESS IN DIAMETER					
		DATE 07-01-14	DWG. NO.	507.S1			



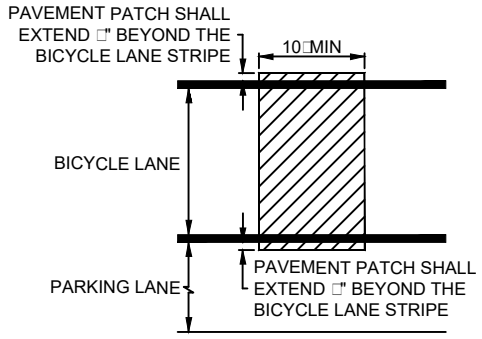
ROADWAY WITH DESIGNATED BICYCLE LANE



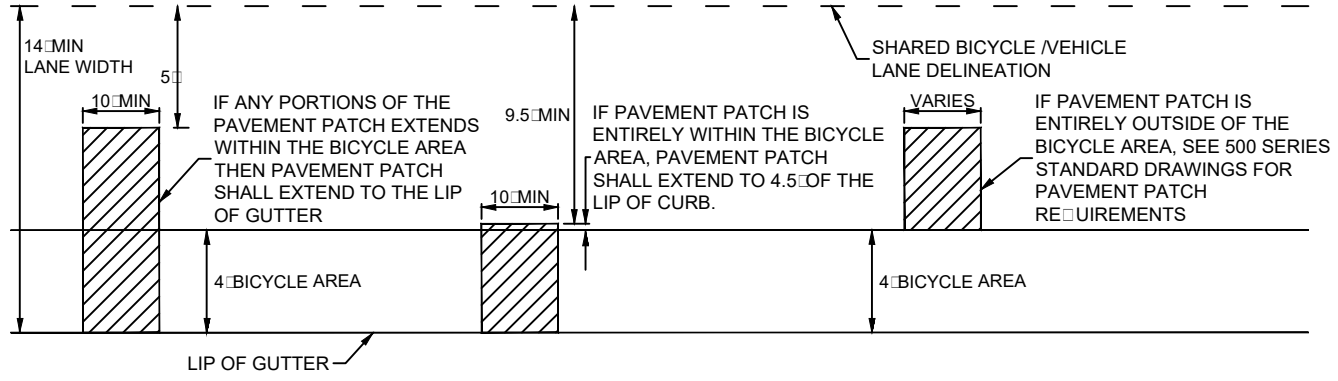
PERMANENT PAVEMENT PATCH DETAIL



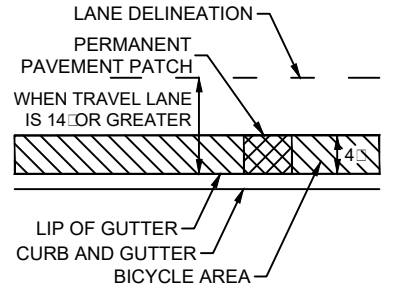
ROADWAY WITH DESIGNATED BICYCLE AND PARKING LANE



PERMANENT PAVEMENT PATCH DETAIL



PERMANENT PAVEMENT PATCH DETAIL



ROADWAY WITH SHARED BICYCLE/VEHICLE LANE

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED				L		
208	TRENCH EXCAVATION & BACKFILL	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
302	AGGREGATE BASE COURSES	SUPPLEMENTAL DRAWING						
		BICYCLE LANE PERMANENT PAVEMENT PATCH						
		DATE 01-01-1	DWG. NO.	508.S1	SHEET 1 OF 2			

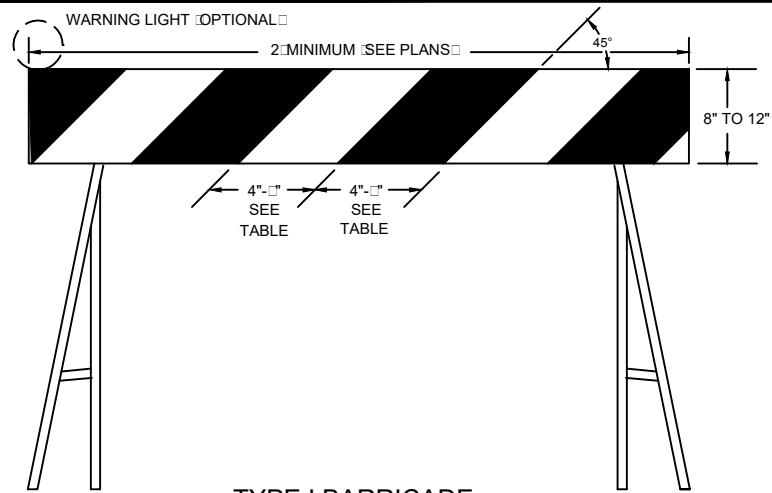
GENERAL NOTES

1. LONGITUDINAL JOINTS ARE NOT ALLOWED WITHIN A BICYCLE LANE/AREA.
2. PAVEMENT PATCHES WITHIN A BICYCLE LANE SHALL NOT BE WITHIN 100' OF ANOTHER PAVEMENT PATCH (EXISTING OR PROPOSED) IF A PAVEMENT PATCH IS WITHIN 100' THE PAVEMENT BETWEEN PATCHES SHALL BE REMOVED AND REPLACED WITH ONE CONTINUOUS PATCH.
3. NO PATCHES WITHIN A BICYCLE LANE/AREA SHALL BE LESS THAN 10' IN LENGTH.
4. TEMPORARY PATCHES SHALL BE ASPHALT.
5. THE CONTRACTORS NAME AND DATE OF CONSTRUCTION SHALL BE SPRAY PAINTED ON THE TEMPORARY PATCH BY THE CONTRACTOR.
6. TEMPORARY PATCHES SHALL BE COMPACTED, MAINTAINED, AND FLUSH WITH THE ADJACENT PAVEMENT AT ALL TIMES.
7. TEMPORARY PATCHES SHALL BE REMOVED AND REPLACED WITHIN 90 CALENDAR DAYS.
8. A RING TOP DELINEATOR POST SHALL BE PLACED WITHIN THE GUTTER TO ALERT BICYCLISTS OF THE TEMPORARY PATCH CONDITION IF THE BICYCLE LANE IS ADJACENT TO CURB AND GUTTER OR EDGE OF PAVEMENT.
9. CONTRACTOR SHALL INSTALL ROUGH ROAD WARNING SIGNS TO WARN BICYCLISTS OF THE TEMPORARY PATCH CONDITION.
10. ASPHALT DESIGN GRADATION SHALL BE CONTINUOUS WITH ADJACENT ROADWAY.
11. SEE 500 SERIES STANDARD DRAWINGS FOR BACKFILL REQUIREMENTS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES DUE TO NON-COMPLIANCE WITH THESE REQUIREMENTS AND ALL APPLICABLE CODES AND REGULATIONS.
13. CONTRACTOR SHALL HAVE PERMIT ON-SITE WHEN PRESENT. CONTRACTOR WILL BE ASSESSED A \$300 FINE IF PERMIT IS NOT ON-SITE.
14. ALL PATCHES SHALL BE MACHINE LAID.

Effective 10/08/2020 to 12/09/2020

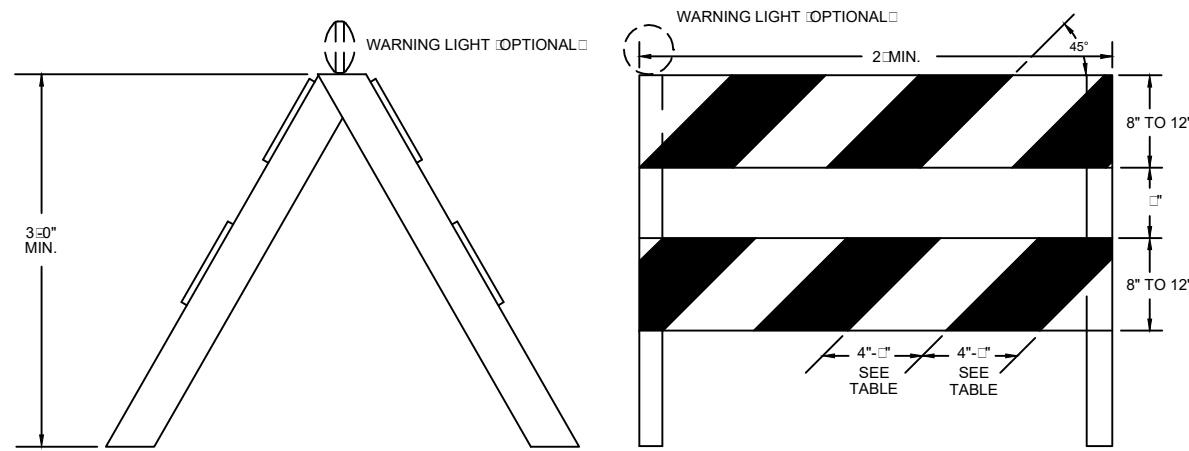
		AGENCY APPROVED							L		
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA									
208	TRENCH EXCAVATION & BACKFILL	SUPPLEMENTAL DRAWING									
302	AGGREGATE BASE COURSES	BICYCLE LANE PERMANENT PAVEMENT PATCH									
		DATE	01-01-1	DWG. NO.	508.S1	SHEET 2 OF 2					

Effective 10/08/2020 to 12/09/2020



TYPE I BARRICADE

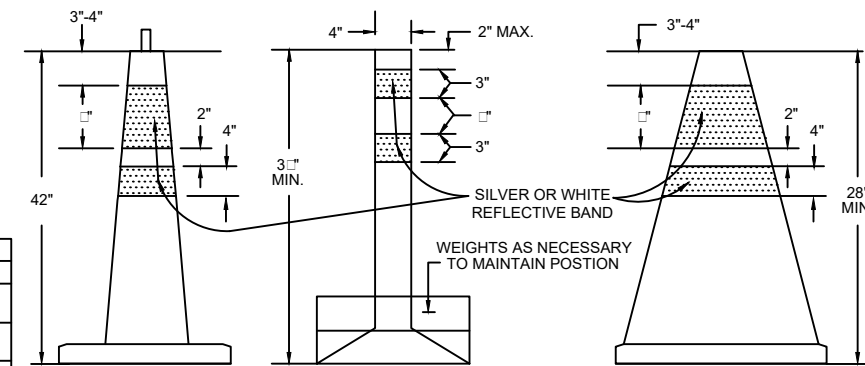
WARNING LIGHT (OPTIONAL)



TYPE II BARRICADE

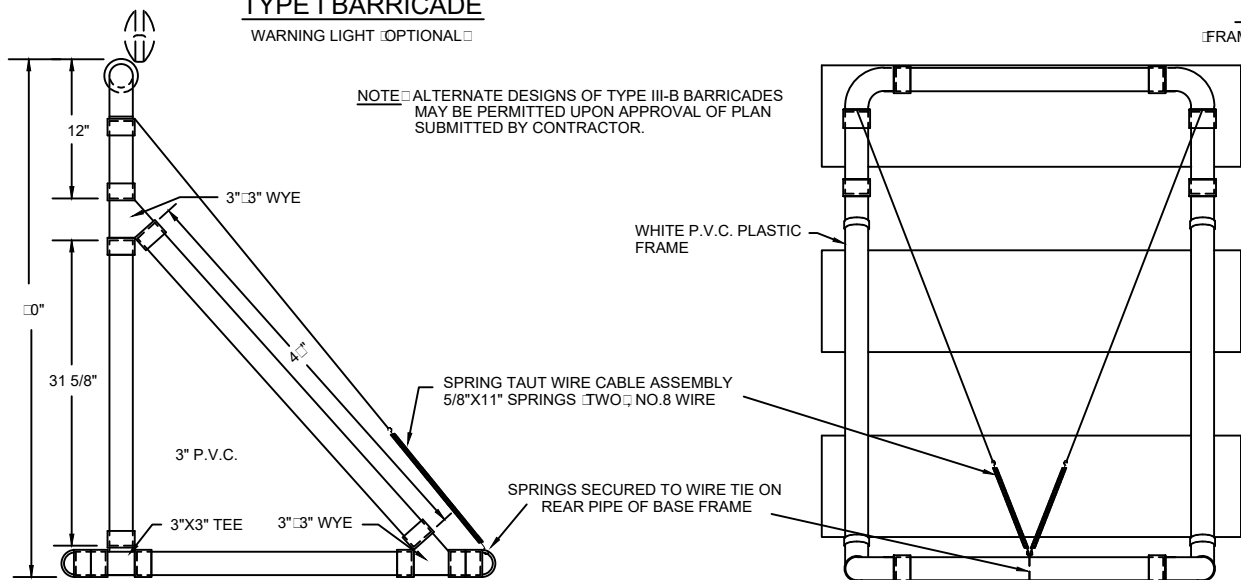
(FRAMEWORK TO BE WHITE OR ORANGE)

- BARRICADE NOTES**
- ALL REFLECTIVE SHEETING ON BARRICADES, VERTICAL PANELS (OPTIONAL) VERTICAL PANEL POST HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SUBSECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
 - BARRICADES MAY BE WEIGHTED WITH SANDBAGS, BUT SUCH SANDBAGS SHALL NOT BE PLACED SO AS TO OBSCURE ANY RETRO REFLECTIVE SURFACE, NOR SHALL THEY BE LOCATED HIGHER THAN 24" ABOVE THE PAVEMENT.
 - WARNING LIGHTS MAY BE PLACED ON ALL BARRICADES WHEN USED DURING NIGHTTIME HOURS.
 - NAME (PHONE NUMBER OF OWNER) MAY BE SHOWN ON NON-REFLECTIVE SURFACE (MUST BE OF ONE COLOR, NON-REFLECTIVE, WITH MAXIMUM 1" LETTERS ON THE FACE).
 - THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE SURFACE.



TRAFFIC CONES

- CONES TO BE PREDOMINATELY ORANGE.
- CONES TO BE USED DURING HOURS OF DARKNESS SHALL BE REFLECTORIZED AS SHOWN ABOVE.
- CONES, DRUMS AND VERTICAL PANEL SHALL HAVE WEIGHTED BASES (HOWEVER IF THE CONTRACTOR WISHES IN LIEU OF WEIGHTED BASES, THE DEVICES MAY BE NAILED OR EPOXIED IN PLACE. DO NOT NAIL OR EPOXY TO FINAL PAVEMENT).

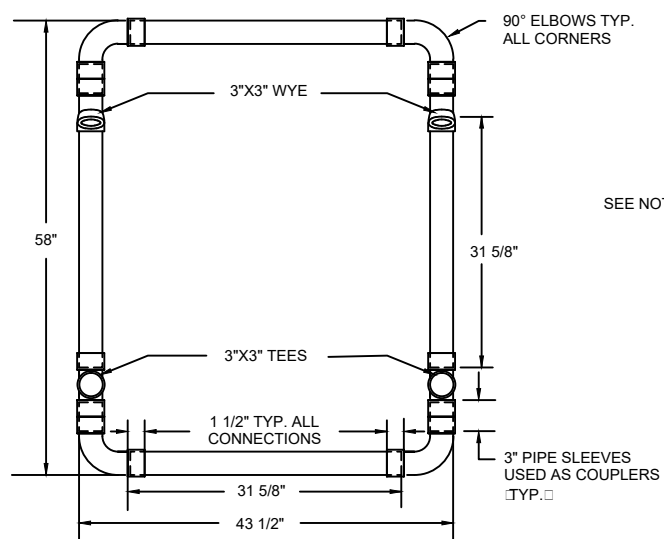


NOTE: ALTERNATE DESIGNS OF TYPE III-B BARRICADES MAY BE PERMITTED UPON APPROVAL OF PLAN SUBMITTED BY CONTRACTOR.

SIDE VIEW

BACK VIEW

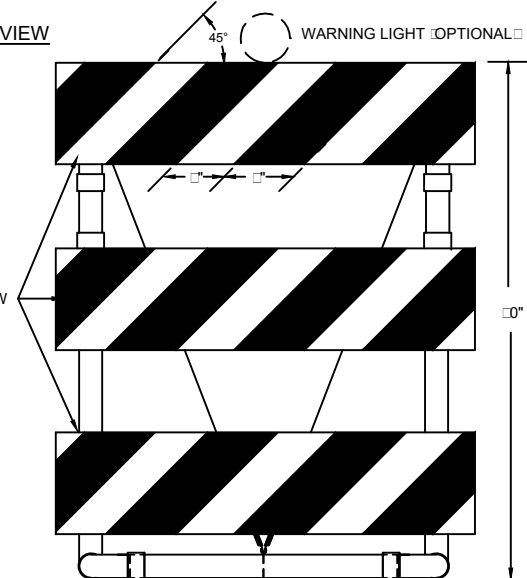
BARRICADE CHARACTERISTICS			
TYPE	I	II	III-B
WIDTH OF RAIL	8" TO 12"	8" TO 12"	8" TO 12"
LENGTH OF RAIL	2' MIN.	2' MIN.	4' MIN.
WIDTH OF STRIPES	RAIL LENGTH (3-4") RAIL LENGTH (3-4")	RAIL LENGTH (3-4") RAIL LENGTH (3-4")	
HEIGHT	3' MIN.	3' MIN.	5' MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 4 IF FACING TRAFFIC IN TWO DIRECTIONS



TOP VIEW OF BASE

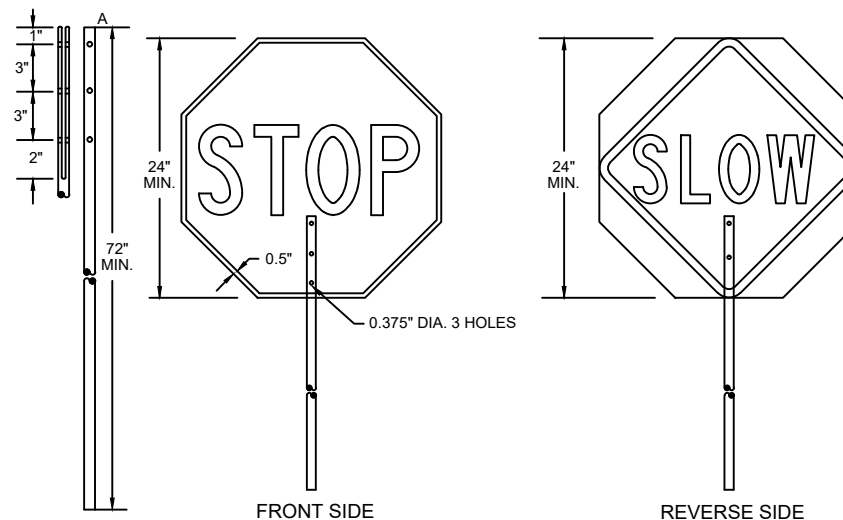
TYPE III-B BARRICADE

(BARRICADE TO BE WEIGHTED DOWN WITH SANDBAGS)



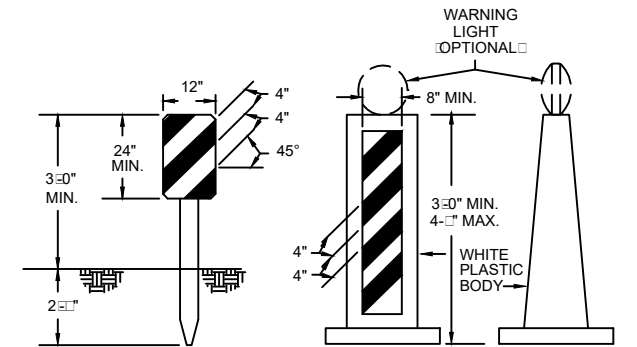
FRONT VIEW

NOTE: 9"x48" BARRICADE HARD PANELS ORANGE AND WHITE RIGHT OR LEFT. .025 ANODIZED ALUMINUM OR 3/4" WOOD PANELS ATTACHED WITH 1" NO. 14 PAN HEAD METAL SCREW.



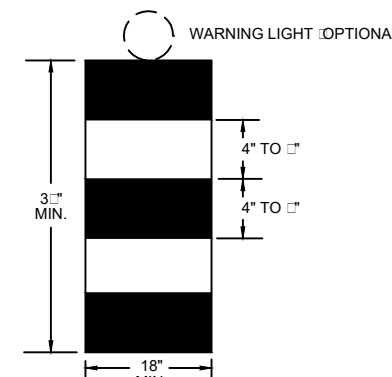
FLAGGER SIGN

- THE STOP FACE SHALL CONSIST OF WHITE LETTERS AND BORDER ON A RED REFLECTORIZED BACKGROUND.
- THE SLOW FACE SHALL CONSIST OF BLACK LETTERS AND BORDER ON AN ORANGE REFLECTORIZED BACKGROUND.
- BOTH FACES SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
- AREAS OUTSIDE SIGN BORDERS SHALL BE BLACK.
- THE SIGN BLANK SHALL BE OCTAGONAL.
- THE PORTION OF THE STAFF WITHIN THE SIGN FACE SHALL MATCH THE SIGN COLORS.
- ALL COLORS AND LETTERS SHALL MEET APPLICABLE FEDERAL STANDARDS.
- THE STAFF SHALL CONSIST OF TWO SECTIONS JOINED BY A COUPLING LOCATED 10 IN. FROM THE BOTTOM OF THE STAFF. ALTERNATE DESIGNS MAY BE USED WHEN APPROVED BY THE TRAFFIC ENGINEER. ALL MATERIALS SHALL BE SUBSTANTIAL AND DURABLE.
- THIS SIGN SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL BE USED BY THE FLAGGER IN LIEU OF FLAGS OR OTHER SIGNALING DEVICES.
- STOP - SIX (1/4) INCH SERIES C LETTERS. SLOW - SIX (1/4) INCH SERIES B LETTERS.
- PADDLES SHALL CONFORM TO SECTION E-4 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- THE PADDLE MAY BE SUPPLEMENTED BY ONE OR TWO SYMMETRICALLY POSITIONED ALTERNATELY FLASHING WHITE HIGH INTENSITY LAMPS ON EACH SIDE.



VERTICAL PANEL

VERTICAL PANEL POST



TRAFFIC DRUM

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK (ONE)

SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR

BARRICADES (FLAGGER) TRAFFIC CONTROL SIGN STANDARD DESIGNS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

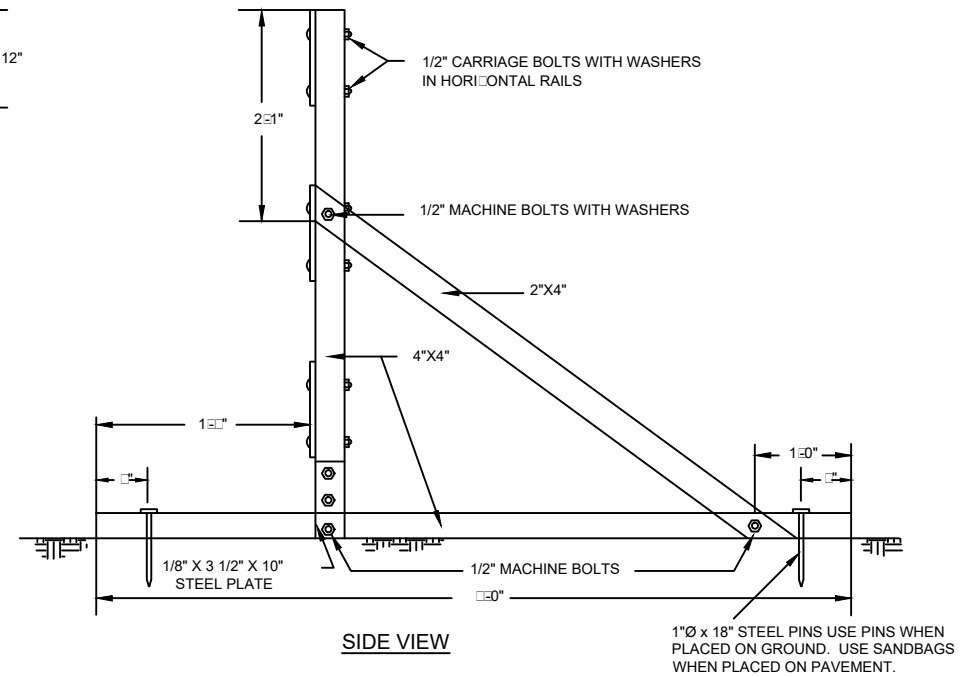
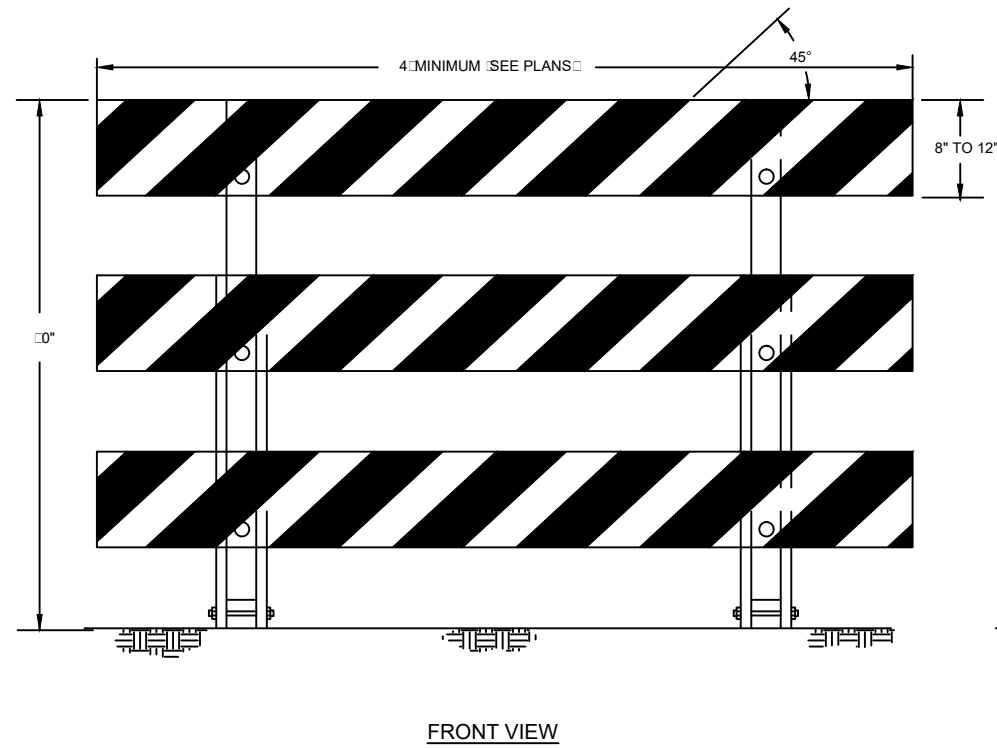
DATE 1-9-97

DWG. NO. 01

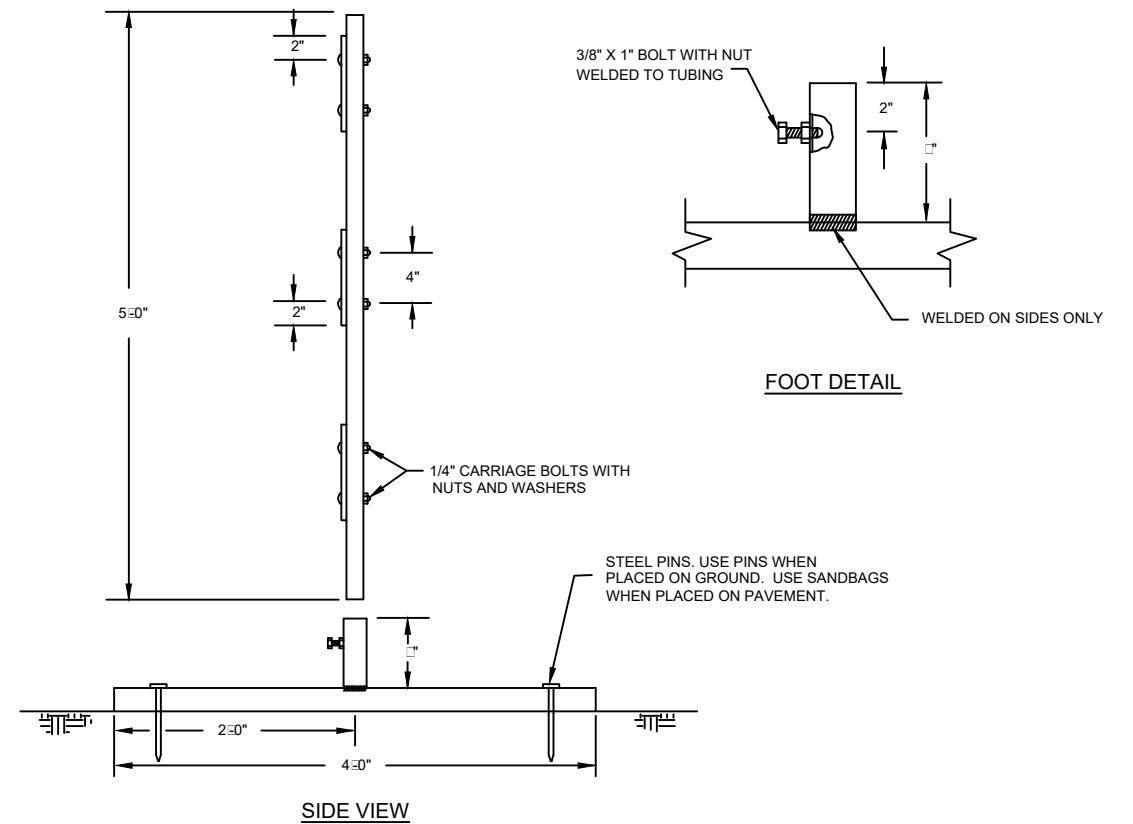
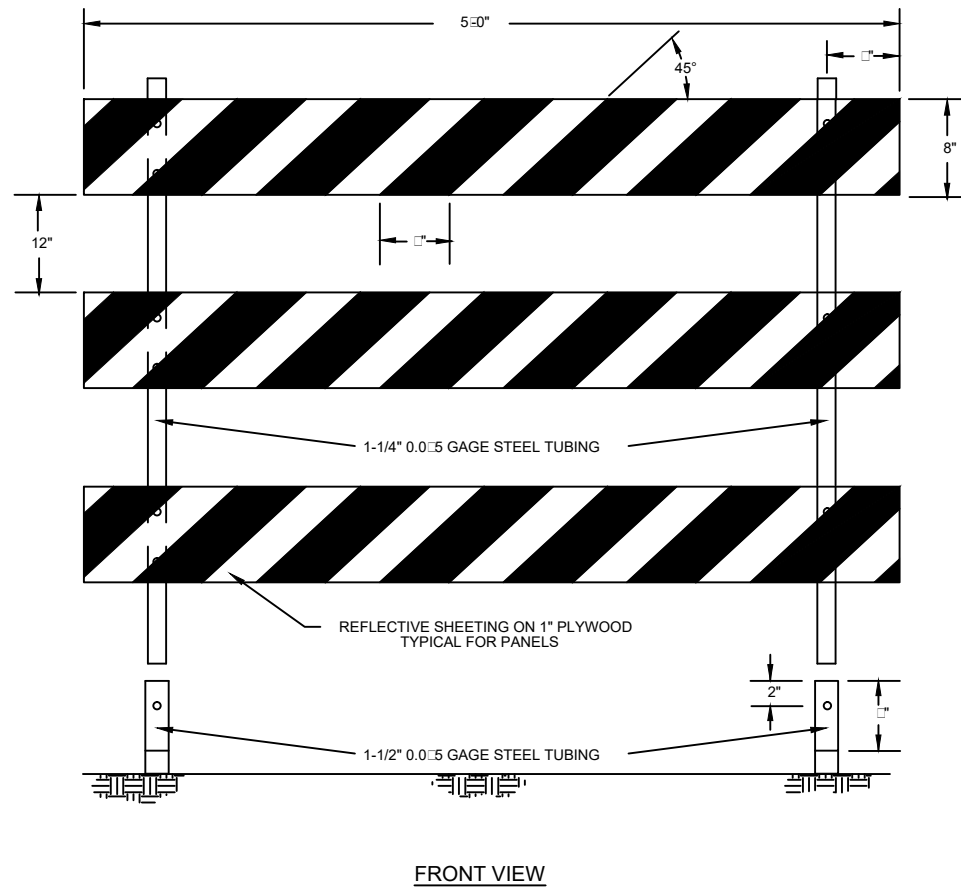
SHEET 1 OF 2

Effective 10/08/2020 to 12/09/2020

TYPE IIIA BARRICADE
N.T.S.



PORTABLE TYPE IIIA BARRICADE
N.T.S.



AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ONE

SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR
BARRICADES □ FLAGGER TRAFFIC CONTROL SIGN STANDARD DESIGNS

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97

DWG. NO. 01

SHEET 2 OF 2

PORTABLE CONCRETE BARRIER RAIL SHALL BE USED TO PROTECT ANY WORK AREA IN WHICH IS ESTABLISHED A CONDITION SHOWN IN FIGURES A B OR TABLES 1.2 3 BELOW WARRANTING A BARRIER

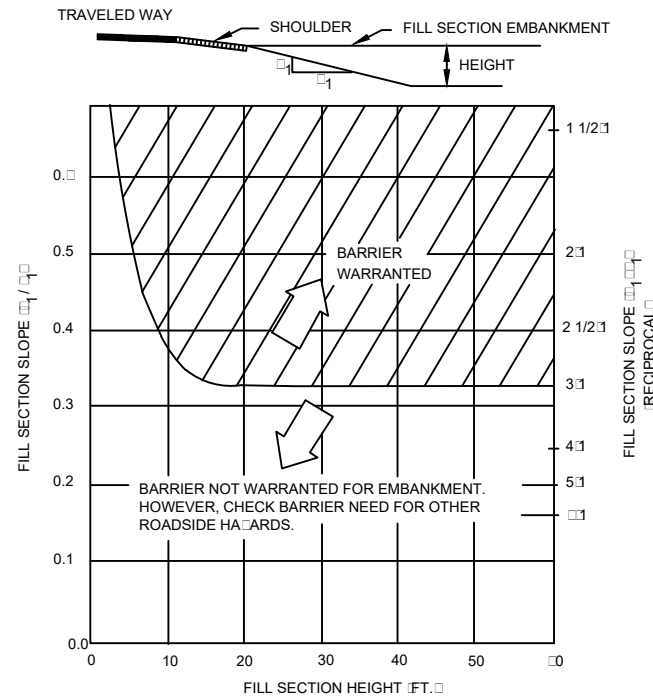


FIGURE A. WARRANTS FOR FILL SECTION EMBANKMENTS

THE TABLES AND FIGURES SHOWN ABOVE ARE TAKEN IN THEIR ENTIRETY FROM THE ROADSIDE DESIGN GUIDE, AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS (AASHTO) WASHINGTON, D.C. 1989 AND USED TO ESTIMATE CLEAR ZONE DIMENSION. REFER TO ROADSIDE DESIGN GUIDE FOR ADDITIONAL INFORMATION AND GUIDELINES WHICH SHOULD BE CONSIDERED.

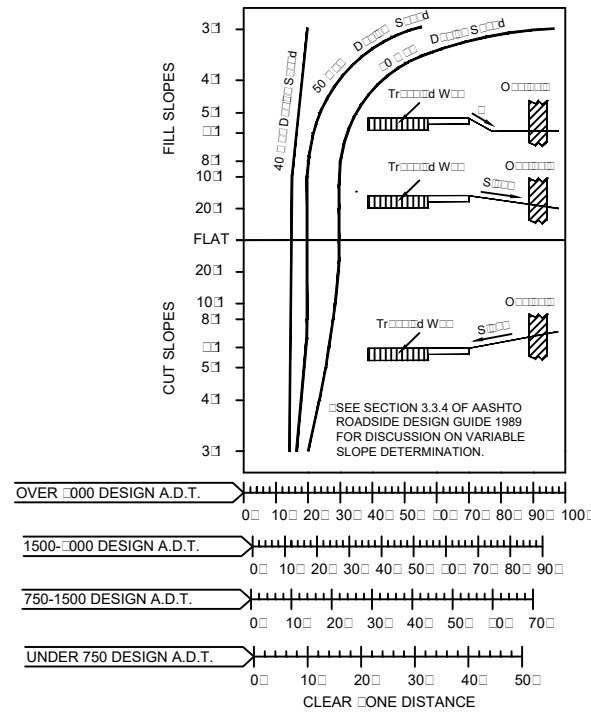


FIGURE B. CLEAR ZONE DISTANCE CURVES

FOR SLOPES GREATER THAN 4:1 CONSULT AASHTO ROADSIDE DESIGN GUIDE 1989

TABLE 1. CLEAR ZONE DISTANCES (IN FEET FROM EDGE OF DRIVING LANE)

DESIGN SPEED	DESIGN ADT	FILL SLOPES			CUT SLOPES		
		1:1 OR FLATTER	5:1 TO 4:1	3:1	3:1	5:1 TO 4:1	1:1 OR FLATTER
40 MPH OR LESS	UNDER 750	7-10	7-10	11	7-10	7-10	7-10
	750-1500	10-12	12-14	11	10-12	10-12	10-12
	1500-1000	12-14	14-18	11	12-14	12-14	12-14
45-50 MPH	UNDER 750	10-12	12-14	11	8-10	8-10	10-12
	750-1500	12-14	14-20	11	10-12	12-14	14-18
	1500-1000	14-18	20-24	11	12-14	14-18	18-22
55 MPH	UNDER 750	12-14	14-18	11	8-10	10-12	10-12
	750-1500	14-18	20-24	11	10-12	14-18	18-22
	1500-1000	20-22	24-30	11	14-18	18-22	20-22
60 MPH	UNDER 750	14-18	20-24	11	10-12	12-14	14-18
	750-1500	20-24	24-32	11	12-14	18-22	24-28
	1500-1000	24-30	32-40	11	14-18	18-22	24-28
65-70 MPH	UNDER 750	18-20	20-24	11	10-12	14-18	14-18
	750-1500	24-28	28-32	11	12-14	18-20	20-22
	1500-1000	28-32	34-42	11	14-20	22-24	24-28

1 MAY BE LIMITED TO 30 FEET BASED SITE SPECIFIC INVESTIGATION. SEE ROADSIDE DESIGN GUIDE FOR FURTHER DISCUSSION.

2 FIXED OBJECTS SHOULD NOT BE PRESENT IN THE VICINITY OF THE TOE OF THESE SLOPES. RECOVERY OF HIGH SPEED VEHICLES THAT ENCROACH BEYOND THE EDGE OF SHOULDER MAY BE EXPECTED TO OCCUR BEYOND THE TOE OF THE SLOPE. SEE ROADSIDE DESIGN GUIDE FOR FURTHER DISCUSSION.

TABLE 2. TYPICAL WARRANTS FOR NONTRAVERSABLE AND FIXED OBJECT HAZARDS

BRIDGE PIERS, ABUTMENTS AND RAILING ENDINGS	SHIELDING GENERALLY REQUIRED
BOULDERS	A JUDGEMENT DECISION BASED ON NATURE OF HAZARD AND LIKELIHOOD OF IMPACT
CULVERTS, PIPES, HEADWALLS	A JUDGEMENT DECISION BASED ON SIZE, SHAPE AND LOCATION OF HAZARD
CUT SLOPES (SMOOTH)	SHIELDING NOT GENERALLY REQUIRED
CUT SLOPES (ROUGH)	A JUDGEMENT DECISION BASED ON LIKELIHOOD OF IMPACT
DITCHES (PARALLEL)	REFER TO ROADSIDE DESIGN GUIDE SECTION 3.2.4
DITCHES (TRANSVERSE)	SHIELDING GENERALLY REQUIRED IF LIKELIHOOD OF HEAD-ON IMPACT IS HIGH
EMBANKMENT	A JUDGEMENT DECISION BASED ON FILL HEIGHT AND SLOPE (SEE FIGURE A)
RETAINING WALLS	A JUDGEMENT DECISION BASED ON RELATIVE SMOOTHNESS OF WALL AND ANTICIPATED MAXIMUM ANGLE OF IMPACT
SIGNAL/LUMINAIRE SUPPORTS 3	SHIELDING GENERALLY REQUIRED FOR NON-BREAKAWAY SUPPORTS
TRAFFIC SIGNAL SUPPORTS 4	ISOLATED TRAFFIC SIGNALS WITHIN CLEAR ZONE ON HIGH-SPEED RURAL FACILITIES MAY WARRANT SHIELDING
TREES	A JUDGEMENT DECISION BASED ON SITE SPECIFIC CIRCUMSTANCES
UTILITY POLES	SHIELDING MAY BE WARRANTED ON A CASE-BY-CASE BASIS
PERMANENT BODIES OF WATER	A JUDGEMENT DECISION BASED ON LOCATION AND DEPTH OF WATER AND LIKELIHOOD OF ENCROACHMENT

- SHIELDING A NON-TRAVERSABLE OR FIXED OBJECT HAZARD IS USUALLY WARRANTED ONLY WHEN THE HAZARD IS WITHIN THE CLEAR ZONE AND CANNOT PRACTICALLY OR ECONOMICALLY BE REMOVED, RELOCATED OR MADE BREAKAWAY, AND IT IS DETERMINED THAT THE BARRIER IS A LESSER HAZARD THAN THE UNSHIELDED CONDITION.
- MARGINAL SITUATIONS, WITH RESPECT TO PLACEMENT OR OMISSION OF A BARRIER, WILL USUALLY BE DECIDED BY ACCIDENT EXPERIENCE, EITHER AT THE SITE OR AT A COMPARABLE SITE.
- WHERE FEASIBLE, ALL SIGN AND LUMINAIRE SUPPORTS SHOULD BE A BREAKAWAY DESIGN REGARDLESS OF THEIR DISTANCE FROM THE ROADWAY IF THERE IS A REASONABLE LIKELIHOOD OF THEIR BEING HIT BY AN ERRANT MOTORIST.
- IN PRACTICE, RELATIVELY FEW TRAFFIC SIGNAL SUPPORTS, INCLUDING FLASHING LIGHT SIGNALS AND GATES USED AT RAILROAD CROSSING, ARE SHIELDED. IF SHIELDING IS DEEMED UNNECESSARY, HOWEVER, CRASH CUSHIONS ARE SOMETIMES USED IN LIEU OF A LONGITUDINAL BARRIER INSTALLATION.

TABLE 3. HORIZONTAL CURVE ADJUSTMENTS

DEGREE OF CURVE	DESIGN SPEED							WHERE $C_c = L_c / K_c$ L_c CLEAR ZONE ON OUTSIDE OF CURVATURE, FT. K_c CURVE CORRECTION FACTOR NOTE: CLEAR ZONE CORRECTION FACTOR IS APPLIED TO OUTSIDE CURVES ONLY. CURVES FLATTER THAN 2° DO NOT REQUIRE AN ADJUSTED CLEAR ZONE.
	40	45	50	55	60	65	70	
2.0	1.08	1.10	1.12	1.15	1.19	1.22	1.27	
2.5	1.10	1.12	1.15	1.19	1.23	1.28	1.33	
3.0	1.11	1.15	1.18	1.23	1.28	1.33	1.40	
3.5	1.13	1.17	1.22	1.27	1.32	1.39	1.47	
4.0	1.15	1.19	1.25	1.30	1.37	1.44	1.53	
4.5	1.17	1.22	1.28	1.34	1.41	1.49	1.59	
5.0	1.19	1.24	1.31	1.37	1.44	1.53	1.64	
5.5	1.23	1.29	1.36	1.45	1.54	1.64	1.76	
6.0	1.25	1.34	1.42	1.52	1.62	1.73	1.86	
6.5	1.30	1.38	1.48	1.58	1.69	1.81	2.00	
7.0	1.34	1.43	1.53	1.64	1.76	1.89	2.10	
7.5	1.37	1.47	1.58	1.70	1.83	2.00	2.20	
8.0	1.40	1.50	1.62	1.75	1.89	2.08	2.30	
8.5	1.43	1.54	1.67	1.81	1.96	2.16	2.40	
9.0	1.46	1.58	1.72	1.87	2.03	2.24	2.50	
9.5	1.49	1.62	1.77	1.93	2.10	2.32	2.60	
10.0	1.52	1.66	1.82	1.99	2.17	2.40	2.70	
10.5	1.55	1.70	1.87	2.05	2.24	2.48	2.80	
11.0	1.58	1.74	1.92	2.11	2.31	2.56	2.90	
11.5	1.61	1.78	1.97	2.17	2.37	2.63	3.00	
12.0	1.64	1.82	2.02	2.23	2.44	2.70	3.10	
12.5	1.67	1.86	2.07	2.29	2.51	2.78	3.20	
13.0	1.70	1.90	2.12	2.35	2.58	2.86	3.30	
13.5	1.73	1.94	2.17	2.41	2.65	2.94	3.40	
14.0	1.76	1.98	2.22	2.47	2.72	3.02	3.50	
14.5	1.79	2.02	2.27	2.53	2.79	3.10	3.60	
15.0	1.82	2.06	2.32	2.59	2.86	3.18	3.70	

Effective 10/08/2020 to 12/09/2020

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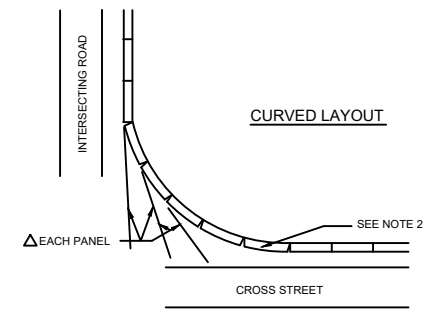
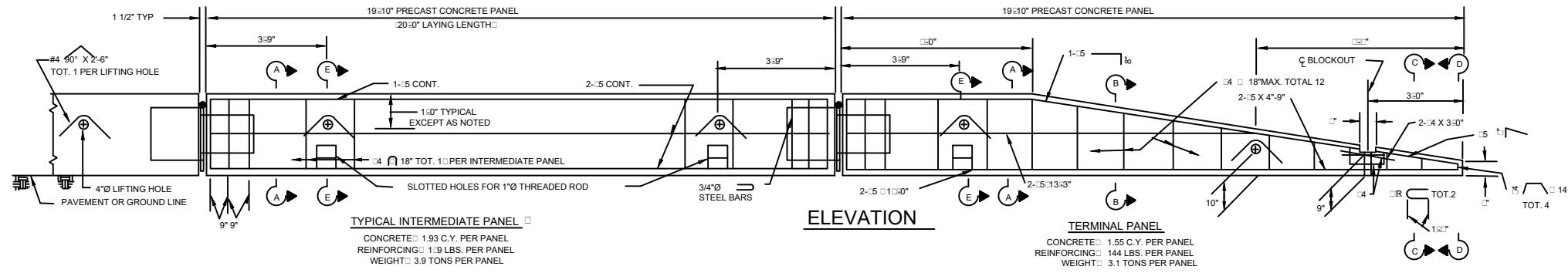
TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ZONE

SPECIFICATION REFERENCE

WARRANTING CONDITIONS FOR PORTABLE CONCRETE BARRIER RAIL

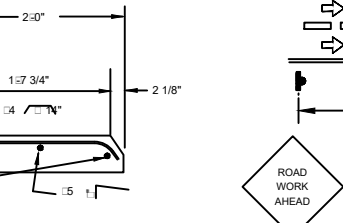
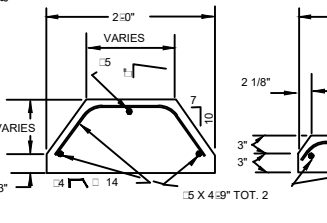
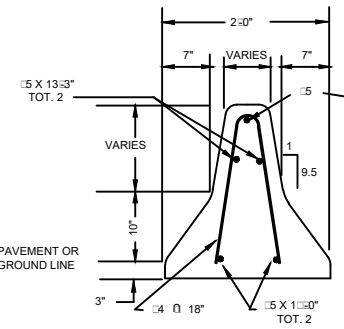
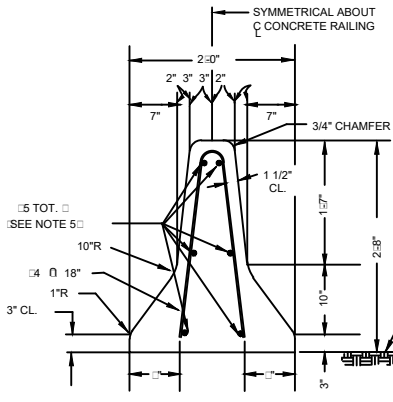
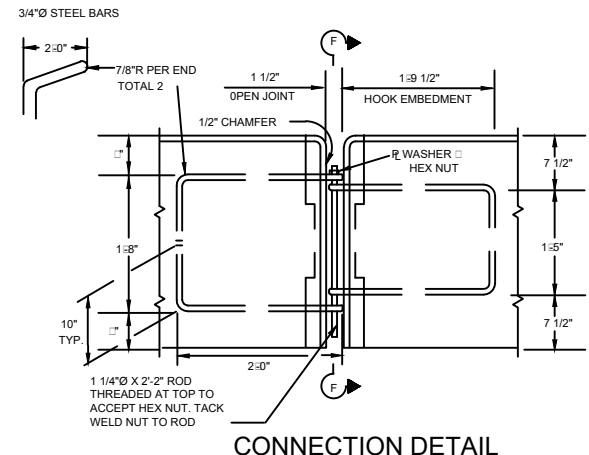
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

DATE 1-9-97 DWG. NO. 02 SHEET 1 OF 2



TYPICAL INTERMEDIATE PANEL
 CONCRETE: 1.93 C.Y. PER PANEL
 REINFORCING: 1.9 LBS. PER PANEL
 WEIGHT: 3.9 TONS PER PANEL
 ALTERNATE LENGTHS MAY BE USED IF APPROVED BY THE ENGINEER.

TERMINAL PANEL
 CONCRETE: 1.55 C.Y. PER PANEL
 REINFORCING: 1.44 LBS. PER PANEL
 WEIGHT: 3.1 TONS PER PANEL
 NOTE: #4 18" AND #4 14" MAY BE REPLACED BY WELDED WIRE FABRIC OF EQUIVALENT CROSS-SECTIONAL AREA. FOR DETAILS NOT SHOWN IN SECTIONS B-B, C-C, D-D, SEE SECTION A-A.



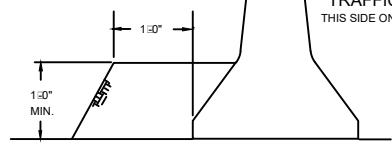
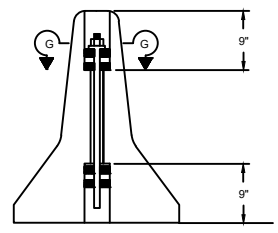
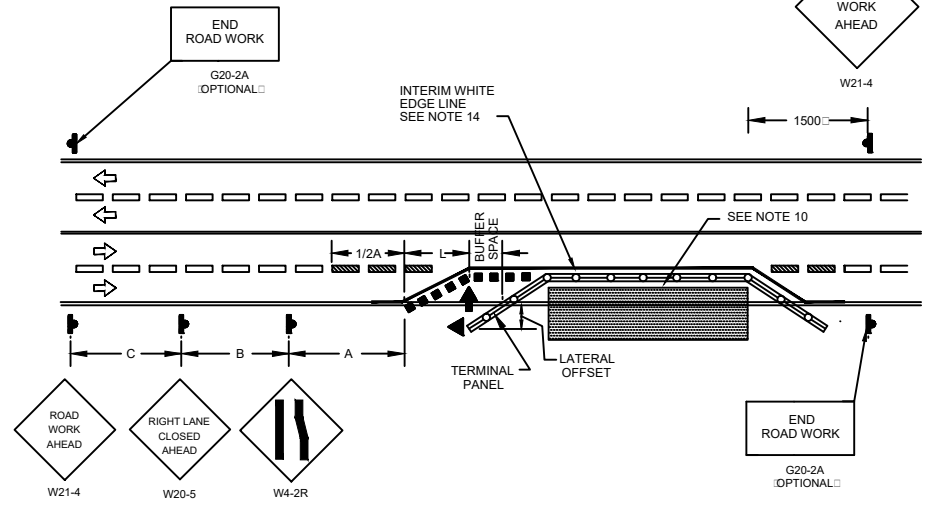
CONNECTION DETAIL

SECTION A-A

SECTION B-B

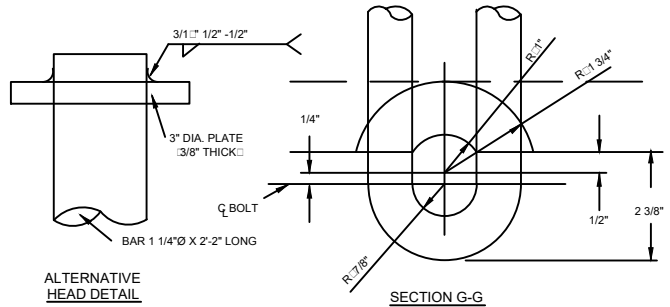
SECTION C-C

SECTION D-D



VIEW F-F

SECTION H-H



ALTERNATIVE HEAD DETAIL

SECTION G-G

PIN CONNECTION DETAIL

SPEED MILES PER HOUR 85th PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELLING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	5	25
30	150	155	160	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

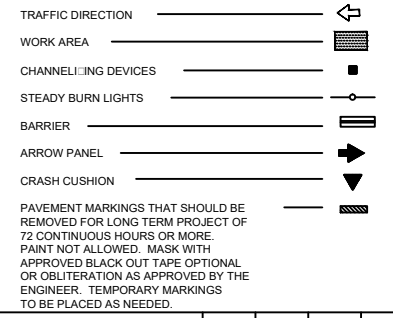
SPEED M.P.H.	BUFFER SPACE FT.
70	585
55	485
50	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

SPEED M.P.H.	MAXIMUM TAPER	MINIMUM LATERAL OFFSET FT.
70	15.1	10.0
55	14.1	9.0
50	13.1	8.0
55	12.1	7.25
50	11.1	6.5
45	10.1	5.75
40	9.1	5.0
35	8.1	4.25
30	7.1	3.5
25	6.1	2.75
20	5.1	2.0

POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
URBAN (LESS THAN 35 MPH)	200	200	200
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1600	2600

SYMBOLS



- NOTES**
- THE MINIMUM LENGTH OF PORTABLE BARRIER SYSTEM SHOULD BE 100 FT. IN ACCORDANCE WITH CURRENT EDITION AASHTO ROADSIDE DESIGN GUIDE.
 - WHERE BARRIERS ARE PLACED ON CURVES AND RADII THAT ARE TOO SEVERE TO MATCH UP JOINTS, BARRIERS ARE TO BE BACKED CONTINUOUSLY WITH EARTH FILL. SEE SECTION H-H.
 - BOLT UNITS TO DECK SLABS WHEN REQUIRED BY BRIDGE PLANS.
 - ATTACH UNITS TO PAVEMENT WHEN REQUIRED IN THE PLANS.
 - THE TWO .5 BARS SHALL BE EQUALLY SPACED FROM THE VERTEX OF THE STIRRUP BARS. ONE .5 BAR SHALL BE TIGHTLY WIRED TO THE STIRRUP BARS AND THE SECOND .5 BAR SHALL BE TACK WELDED TO THE STIRRUP BARS. EACH PROCESS SHALL BE CONTINUOUS FOR EACH .5 BAR.
 - THE USE OF A BARRIER SHALL BE BASED ON THE NEED DETERMINED IN SHEET 1 OF THIS DRAWING, IN CONJUNCTION WITH THE ROADSIDE DESIGN GUIDE, CURRENT EDITION, OR WHEN CALLED FOR ON THE PLANS.
 - BARRIERS SHALL BE FLARED BEYOND THE SHOULDER OR HAVE A CRASH CUSHION TO PROTECT TRAFFIC FROM THE END OF THE BARRIER. TERMINAL PANELS MAY BE USED AT ENDS ON PORTABLE BARRIER SYSTEM WHICH FACE ONCOMING TRAFFIC FOR SPEEDS LESS THAN 40 MPH.
 - ALTERNATE STRUCTURAL DETAILS MAY BE PERMITTED IF DOCUMENTED WITH DRAWINGS SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE TRAFFIC ENGINEER.
 - EVERY PRECAST CONCRETE PANEL SHALL BE JOINED WITH EACH PANEL ADJACENT TO IT. THE CONNECTION DETAILS TO CONFORM WITH THOSE SHOWN ABOVE, OR CONFORMING WITH ALTERNATE DETAIL DESIGN SUBMITTED BY THE CONTRACTOR APPROVED BY THE TRAFFIC ENGINEER. OPENINGS IN BARRIER SHOULD BE AVOIDED.
 - PROVIDE AT LEAST 3 FT. BETWEEN THE BARRIER AND THE WORK AREA.
 - IF LESS THAN 3 FT., BARRIER SHALL BE ANCHORED IN ACCORDANCE WITH CURRENT EDITION OF AASHTO ROADSIDE DESIGN GUIDE.
 - CORNERS OF BARRIERS MAY BE BEVELED TO ALLOW PLACEMENT ON CURVES AND SHOULD BE FREE FROM JAGGED EDGES TO AVOID SNAGGING OF VEHICLES.
 - WHEN TEMPORARY BARRIERS ARE INSTALLED ON BOTH SIDES OF TRAFFIC, BEGINNINGS OF BARRIERS SHOULD BE STAGGERED.
 - FOR BETTER NIGHT VISIBILITY, STEADY BURN LIGHTS MAY BE MOUNTED ALONG BARRIER.
 - AN INTERIM WHITE REFLECTORIZED EDGE LINE, 17" WIDE MINIMUM SHOULD BE INSTALLED FROM THE START OF THE TAPER TO A POINT BEYOND THE WORK AREA, REJOINING THE PERMANENT EDGE LINE. THE EDGE LINE SHALL BE REMOVEABLE, NON-FOIL TAPE.
 - THE BARRIER SHALL NOT BE PLACED ALONG MERGING TAPER. THE LANE SHALL FIRST BE CLOSED USING CHANNELLING DEVICES AND PAVEMENT MARKINGS. THE BARRIER IS THEN PLACED ON A FLARE BEGINNING BEYOND THE DOWNSTREAM END OF THE MERGING TAPER.
 - ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.
 - WATER-FILLED BARRIER RAIL MAY BE USED ON SHORT TERM MOVING OPERATIONS WHEN APPROVED BY THE TRAFFIC ENGINEER.
 - TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK LANE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE

SPECIFICATION REFERENCE

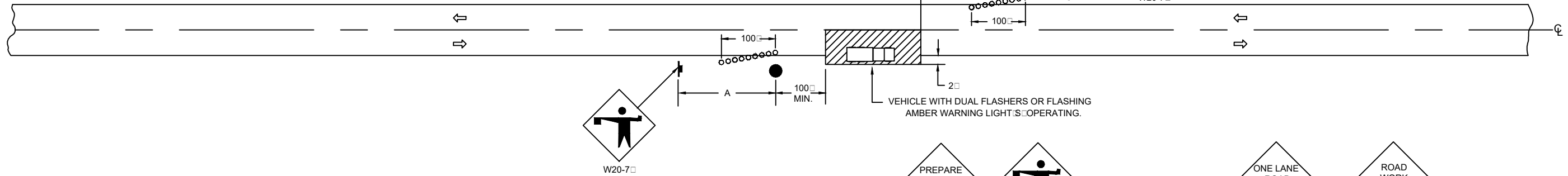
TYPICAL APPLICATION FOR PORTABLE CONCRETE BARRIER RAIL

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
 DATE 1-9-97 DWG. NO. 02 SHEET 2 OF 2

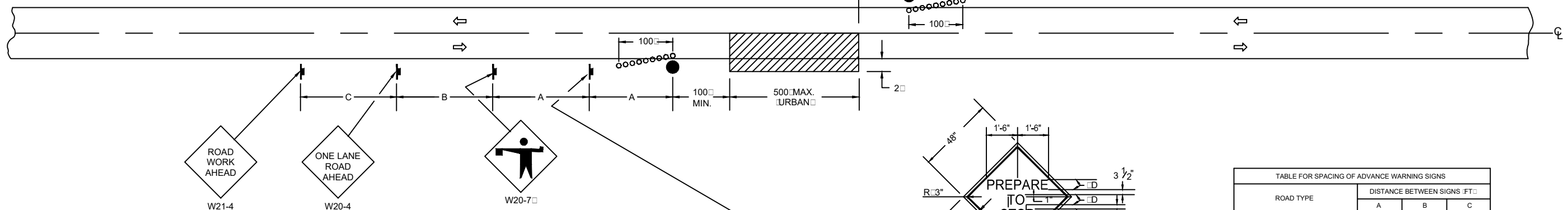
Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED B C H L M N

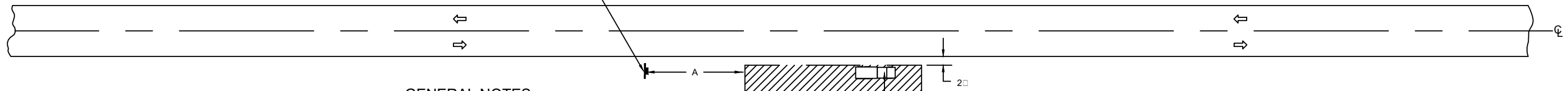
A. FOR ANY OPERATION THAT ENCROACHES IN THE AREA BETWEEN THE CENTERLINE AND A LINE 2 FT. OUTSIDE THE EDGE OF THE PAVEMENT FOR A PERIOD OF LESS THAN 15 MINUTES.



B. FOR ANY OPERATION THAT ENCROACHES IN THE AREA BETWEEN THE CENTERLINE AND A LINE 2 FT. OUTSIDE THE EDGE OF THE PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES BUT LESS THAN 60 MINUTES.



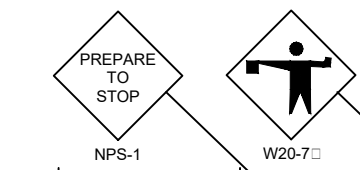
C. FOR ANY OPERATION THAT IS MORE THAN 2 FT. OUTSIDE THE EDGE OF THE PAVEMENT FOR A PERIOD OF LESS THAN 60 MINUTES.



TO BE PROVIDED ONLY WHEN ONE-WAY TRAFFIC OPERATION IS INVOLVED.



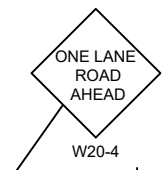
W20-7



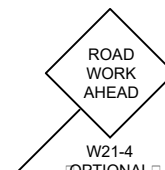
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W20-7

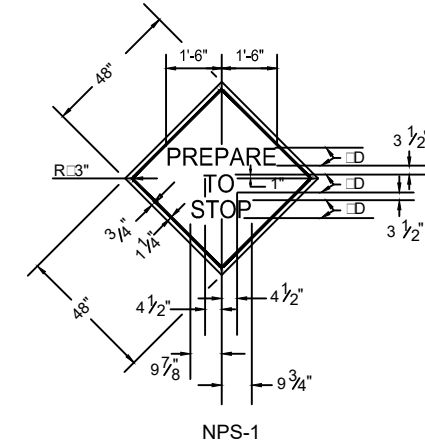


W20-4



W21-4 (OPTIONAL)

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00



GENERAL NOTES

- CONSTRUCTION OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE. ON TWO-LANE ROADS, AT LEAST 500 FT. OF BOTH TRAFFIC LANES SHALL BE AVAILABLE FOR TRAFFIC MOVEMENT AT INTERVALS NOT GREATER THAN 1,000 FT. AND A COMPLETE TRAFFIC CONTROL PLAN MUST BE APPROVED FOR ANY PROJECT EXPECTED TO EXCEED 1,000 FT. IN LENGTH.
- THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- ALL SIGNS ARE TO BE REMOVED AT COMPLETION OF EACH OPERATION.
- FOR THREE LANE ROADWAYS, THE FLAGGER SHOWN FOR TRAFFIC APPROACHING FROM THE OPPOSITE DIRECTION MAY BE DELETED, IF ONE LANE IS MAINTAINED IN EACH DIRECTION, AS DIRECTED BY THE TRAFFIC ENGINEER, THE ADVANCE WARNING SIGN FOR TRAFFIC APPROACHING FROM THE OPPOSITE DIRECTION OMITTED, AND THE "ONE LANE ROAD AHEAD" SIGN CHANGED TO "RIGHT LEFT LANE CLOSED AHEAD". FOR MULTILANE ROADWAYS WITH TWO LANES IN EACH DIRECTION, THE FLAGGER MAY BE DELETED IF DEEMED UNNECESSARY BY THE TRAFFIC ENGINEER.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGERS MAY BE VARIED FROM THAT SHOWN.
- ALL VEHICLES, EQUIPMENT, WORKERS EXCEPT FLAGGERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
- ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
- IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-3311 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	LAS VEGAS	229-3311
CLARK COUNTY	455-1100	MESQUITE	34-5295
HENDERSON	5-5-2140	NORTH LAS VEGAS	42-2412
- IF THE WORK PLACE IS IN THE MEDIAN OF A DIVIDED HIGHWAY, AN ADVANCE WARNING SIGN SHOULD ALSO BE PLACED ON THE LEFT SIDE OF THE DIRECTIONAL ROADWAY.
- ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.
- FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
- TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ONE CONSTRUCTION FOR USE DURING HOURS OF DARKNESS.

TYPICAL APPLICATIONS

- MARKING PATCHES
- FIELD SURVEY
- STRING LINE
- UTILITY OPERATION
- CLEANING UP DEBRIS ON PAVEMENT

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- TRAFFIC CONES
- TRAFFIC DIRECTION

Effective 10/08/2020 to 12/09/2020

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE

SPECIFICATION REFERENCE

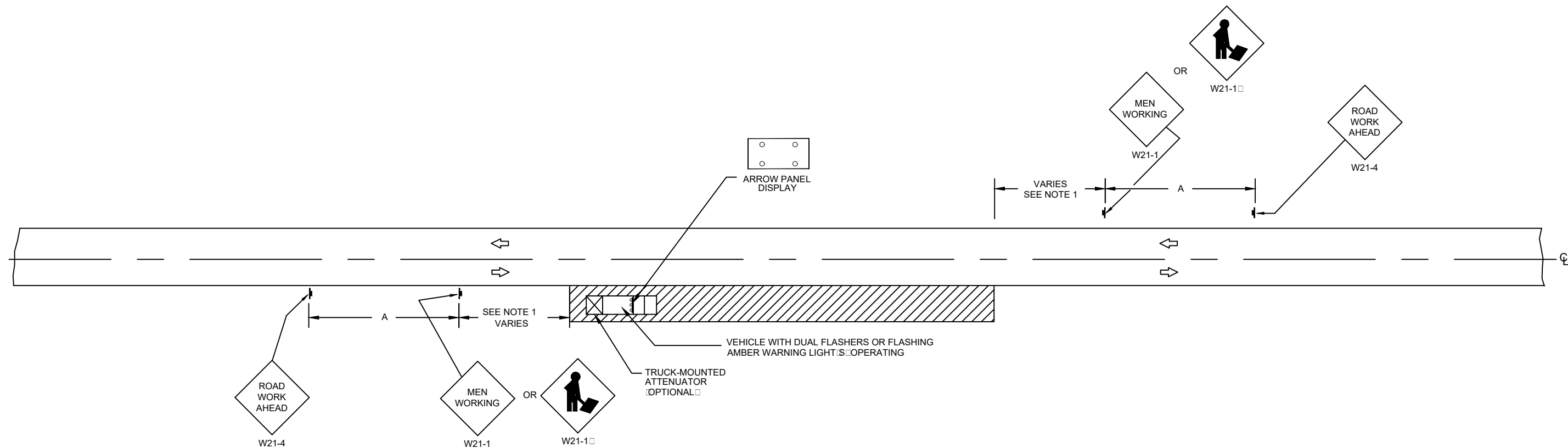
TYPICAL APPLICATION FOR SHORT TIME, DAY OR NIGHT OPERATIONS

AGENCY APPROVED B C H L M N

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 03

Effective 10/08/2020 to 12/09/2020



GENERAL NOTES

1. MINIMUM DISTANCE IS 200 FT. MAXIMUM DISTANCE TO BE DETERMINED BY THE TRAFFIC ENGINEER BUT SHOULD NOT EXCEED 1/2 THE LENGTH REQUIRED FOR ONE NORMAL WORKING DAY'S OPERATION. IN SITUATIONS WHERE MULTIPLE WORK LOCATIONS IN A LIMITED DISTANCE MAKE IT PRACTICABLE TO PLACE STATIONARY SIGNS, THE MAXIMUM SPACING FOR THE ADVANCE WARNING SIGN IS 5 MILES IN ADVANCE OF THE WORK.
2. IF THE WORK OPERATION DOES NOT EXCEED 10 MINUTES, TRAFFIC CONTROL MAY BE IN CONFORMANCE WITH STANDARD DRAWING NO. 103.
3. ALL SIGNS ARE TO BE REMOVED AT COMPLETION OF THE DAY'S OPERATION.
4. FOR DIVIDED ROADWAYS THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND MEDIAN SIDE OF THE AFFECTED APPROACH.
5. FOR MULTILANE ROADWAYS THE ADVANCE WARNING SIGNS MAY BE REQUIRED FOR TRAFFIC APPROACHING FROM THE OPPOSITE DIRECTION.

7. IF THE WORK OPERATION REQUIRES ANY WORK VEHICLE TO ENTER OR LEAVE THE THROUGH TRAFFIC LANES, A FLAGGER SHALL BE PROVIDED AND THE FLAGGER SIGN SHALL BE SUBSTITUTED FOR THE WORKER SIGN. A 100 FT. CONE TAPER SHALL BE PROVIDED PRIOR TO STATION TO PROTECT THE FLAGGER. FLAGGER IS NOT REQUIRED FOR 25 MPH OR LESS RESIDENTIAL STREETS.
8. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER.
9. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
10. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.

13. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

TYPICAL APPLICATIONS

- SHOULDER WORK
- MOWING
- UTILITY OPERATIONS

WORKER SIGNS ARE TO BE REMOVED WHEN NO WORK IS BEING PERFORMED. ANY UNATTENDED OBSTACLE OR EXCAVATION IN THE WORK AREA, WHICH IN THE OPINION OF THE TRAFFIC ENGINEER CONSTITUTES A HAZARD, SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS AT NIGHT AT THE POINTS OF HAZARD. STEADY BURNING LIGHTS SHALL BE USED FOR DELINEATION AND LONG LINE GUIDANCE. BARRICADES SHALL BE PLACED ACCORDING TO MAXIMUM SPACING VALUES LISTED IN THE TABLE BELOW.

SPEED MILES PER HOUR 85 TH PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELLING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	6	25
30	150	165	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

11. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

12. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	5-2140		
LAS VEGAS	229-331		

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TRAFFIC DIRECTION

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ONE

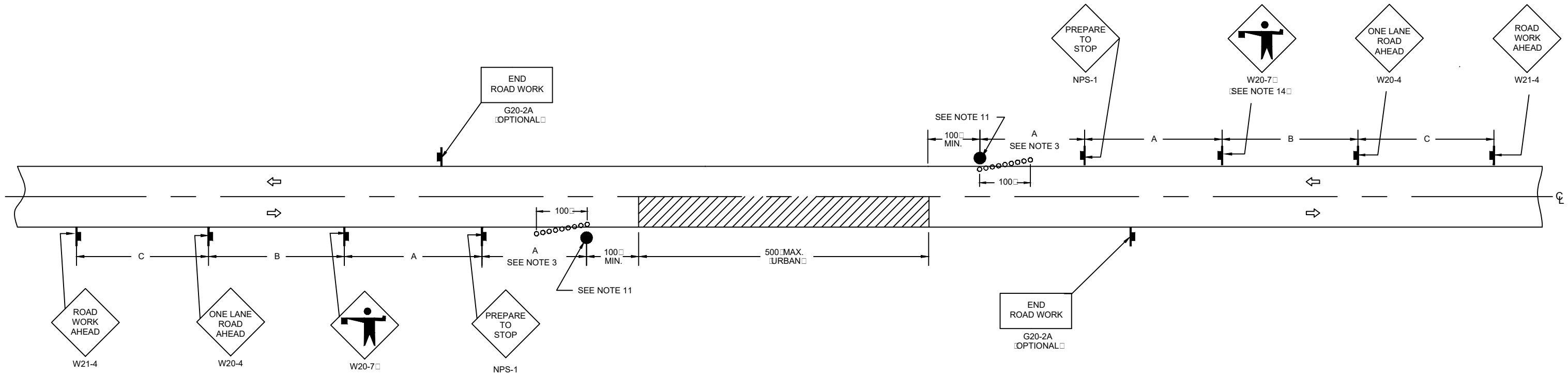
SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR

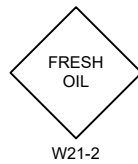
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

RURAL MOVING DAY OPERATIONS WHERE ACTIVITIES ENCROACH ON THE SHOULDER

DATE 1-9-97 DWG NO. 104



SHALL BE USED WHEN PRIME COAT IS APPLIED TO PAVEMENT AND SHALL REMAIN UNTIL NO TRACKING. INSTALL A MINIMUM OF 500 FT. PRECEDING START OF PRIME.



W21-2

TYPICAL APPLICATIONS

- BITUMINOUS RESURFACING
- CRACK POURING
- UTILITY OPERATIONS

1. CONSTRUCTION OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE, LEAVING THE OPPOSITE LANE OPEN TO TRAFFIC. AT LEAST 500' OF BOTH TRAFFIC LANES SHALL BE AVAILABLE FOR TRAFFIC MOVEMENT AT INTERVALS NOT GREATER THAN 1,000 FT. A SPECIAL TRAFFIC CONTROL DETAIL MUST BE APPROVED FOR ANY PROJECT EXPECTED TO EXCEED 1,000 FT. IN LENGTH.
2. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIME.
3. MAXIMUM DISTANCE TO BE DETERMINED BY THE TRAFFIC ENGINEER BUT SHOULD NOT EXCEED 1/2 THE LENGTH REQUIRED FOR ONE NORMAL WORKING DAY'S OPERATION OR 1,000 FT., WHICHEVER IS LESS.
4. IF THE WORK OPERATION DOES NOT EXCEED 30 MINUTES, TRAFFIC CONTROL WILL BE IN CONFORMANCE WITH STANDARD DRAWING NO. 03.
5. ALL SIGNS ARE TO BE REMOVED AT COMPLETION OF THE DAY'S OPERATIONS.
6. FOR DIVIDED ROADWAYS THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE AFFECTED APPROACH.
7. FOR MULTILANE ROADWAYS, THE FLAGGER AND THE ADVANCE WARNING SIGNS SHOWN MAY BE REQUIRED FOR TRAFFIC APPROACHING FROM THE OPPOSITE DIRECTION. "RIGHT LANE CLOSED AHEAD" SIGNS SHALL BE SUBSTITUTED FOR THE "ONE LANE ROAD AHEAD" SIGNS.
8. THIS CASE ALSO APPLIES WHEN WORK IS BEING PERFORMED IN LANES ADJACENT TO THE CENTERLINE OF AN UNDIVIDED MULTILANE HIGHWAY OR ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY. UNDER THESE CONDITIONS, "LEFT LANE CLOSED AHEAD" SIGNS SHALL BE SUBSTITUTED FOR "RIGHT LANE CLOSED AHEAD" SIGNS.
9. THIS CASE DOES NOT APPLY WHEN WORK IS BEING PERFORMED IN THE MIDDLE LANES OF A SIX OR MORE LANE HIGHWAY. SPECIAL TRAFFIC CONTROL DETAILS APPROVED BY THE TRAFFIC ENGINEER WILL BE REQUIRED.

GENERAL NOTES

10. "ONE LANE ROAD AHEAD" AND FLAGGER SIGNS SHALL BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED.
11. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGERS MAY BE VARIED FROM THAT SHOWN. IF A CURVED SECTION OF ROADWAY IS INVOLVED FLAGGER SHOULD BE PLACED AT THE BEGINNING OF CURVE (P.C.).
12. ALL VEHICLES, EQUIPMENT, WORKERS EXCEPT FLAGGERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
13. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
14. IN MULTILANE SITUATIONS, THE FLAGGER AND FLAGGER WARNING SIGNS ON THE SIDE OPPOSITE TO THE WORK AREA ARE REQUIRED ONLY WHEN TRAFFIC IN ANY DIRECTION IS MADE TO CROSS THE ROAD CENTER LINE.
15. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
URBAN (LESS THAN 35 MPH)	200	200	200
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1000	2000

16. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-3311 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.
- | | | | |
|--------------|----------|-----------------|----------|
| BOULDER CITY | 293-9200 | LAS VEGAS | 229-3311 |
| CLARK COUNTY | 455-1100 | MESQUITE | 34-5295 |
| HENDERSON | 55-2140 | NORTH LAS VEGAS | 42-2402 |

17. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- TRAFFIC CONE
- TRAFFIC DIRECTION

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ONE

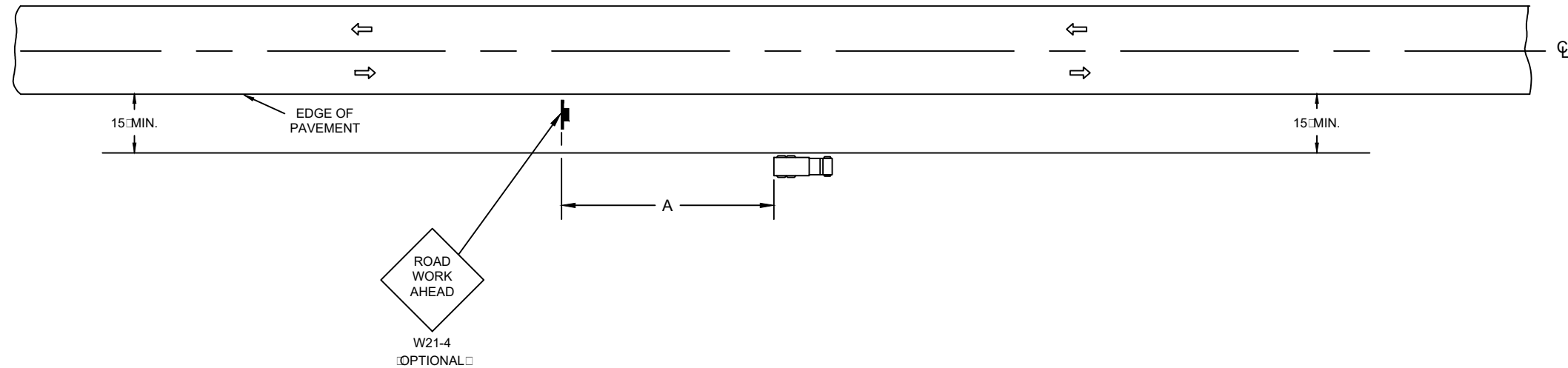
SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR

RURAL MOVING DAY OPERATIONS WHERE ACTIVITIES ENCROACH ON THE PAVEMENT

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 05



GENERAL NOTES

1. NO SPECIAL SIGNING IS REQUIRED.
2. IF THE WORK OPERATION REQUIRES ANY WORK VEHICLES TO CROSS THE 15 FT. CLEARANCE, TRAFFIC CONTROL SHALL CONFORM WITH STANDARD DRAWING NO. 07.
3. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-100	NORTH LAS VEGAS	42-242
HENDERSON	5-2140		
LAS VEGAS	229-331		
4. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ZONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.

TYPICAL APPLICATIONS

- LANDSCAPING WORK
- UTILITY WORK
- FENCING CONTRACTS AND MAINTENANCE
- CLEANING CULVERTS

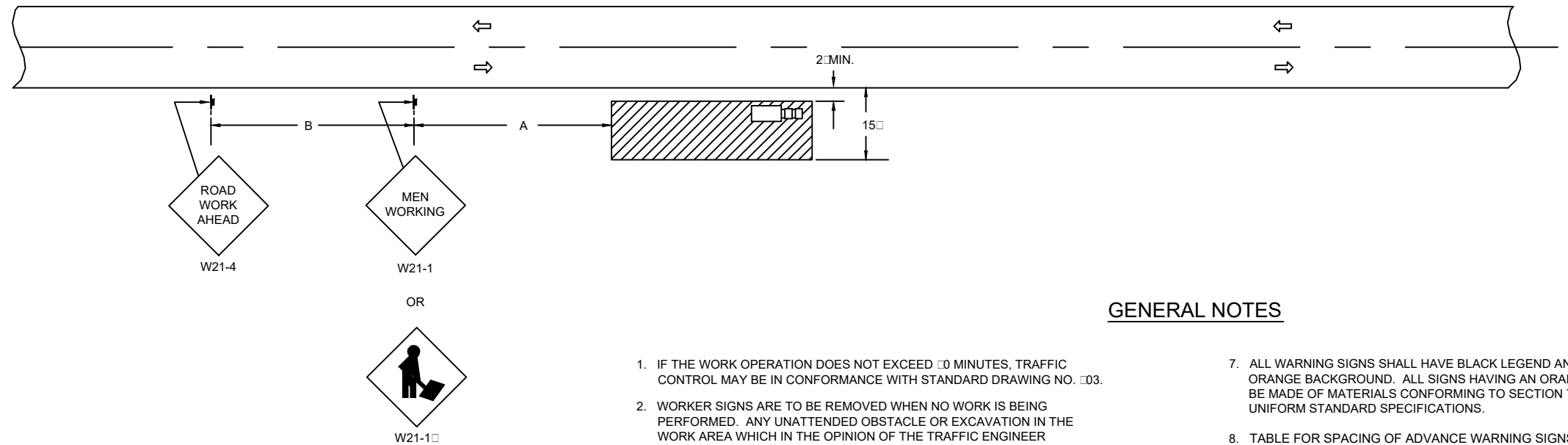
SYMBOLS

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TRAFFIC DIRECTION

ROAD TYPE	DISTANCE BETWEEN SIGNS .FT.		
	A	B	C
	URBAN LESS THAN 35 MPH	200	200
URBAN 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

Effective 10/08/2020 to 12/09/2020

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ZONE	AGENCY APPROVED						B	C	H	L	M	N
	TYPICAL APPLICATION FOR TWO-LANE, TWO-WAY, RURAL DAY OR NIGHT OPERATIONS WHERE ACTIVITIES ARE MORE THAN 15 FT. FROM EDGE OF PAVEMENT											
	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
SPECIFICATION REFERENCE		DATE 1-9-97		DWG NO. 00								



TYPICAL APPLICATIONS

- UTILITY OPERATION
- CULVERT EXTENSIONS
- SIDE SLOPE CHANGES
- GUARD RAIL INSTALLATION AND MAINTENANCE
- DELINEATOR INSTALLATION AND MAINTENANCE
- LANDSCAPING OPERATIONS
- CLEANING DITCHES AND DRAINAGE STRUCTURES
- SIGN INSTALLATION AND MAINTENANCE
- SHOULDER REPAIR

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TRAFFIC DIRECTION

GENERAL NOTES

1. IF THE WORK OPERATION DOES NOT EXCEED 10 MINUTES, TRAFFIC CONTROL MAY BE IN CONFORMANCE WITH STANDARD DRAWING NO. 03.
2. WORKER SIGNS ARE TO BE REMOVED WHEN NO WORK IS BEING PERFORMED. ANY UNATTENDED OBSTACLE OR EXCAVATION IN THE WORK AREA WHICH IN THE OPINION OF THE TRAFFIC ENGINEER CONSTITUTES A HAZARD SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS AT NIGHT AT THE POINTS OF HAZARD. STEADY BURNING LIGHTS SHALL BE USED FOR DELINEATION AND LONG LINE GUIDANCE. BARRICADES SHALL BE PLACED ACCORDING TO MAXIMUM SPACING VALUES LISTED IN THE TABLE BELOW.

TAPER LENGTHS FOR LANE CLOSURES - DISTANCE L					
SPEED MILES PER HOUR 85 TH PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELIZING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	6	25
30	150	155	160	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

3. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK CONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
 4. IF THE WORK OPERATION REQUIRES ANY WORK VEHICLES TO ENTER OR LEAVE THROUGH TRAFFIC LANES, A FLAGGER SHALL BE PROVIDED AND A FLAGGER SIGN SHALL BE SUBSTITUTED FOR THE WORKER SIGN. A 100 FT. CONE TAPER SHALL BE PROVIDED PRIOR TO STATION TO PROTECT THE FLAGGER. FLAGGER IS NOT REQUIRED FOR 25 MPH OR LESS RESIDENTIAL STREETS.
 5. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER.
- ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.

7. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.

8. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1000	2000

9. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-3311 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	LAS VEGAS	229-3311
CLARK COUNTY	455-1100	MESQUITE	345-5295
HENDERSON	565-2140	NORTH LAS VEGAS	424-2422

10. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
11. IF WORKSPACE IS IN THE MEDIAN OF A DIVIDED HIGHWAY, AN ADVANCE WARNING SIGN SHOULD ALSO BE PLACED ON THE LEFT SIDE OF THE DIRECTIONAL ROADWAY.
12. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED B C H L M N

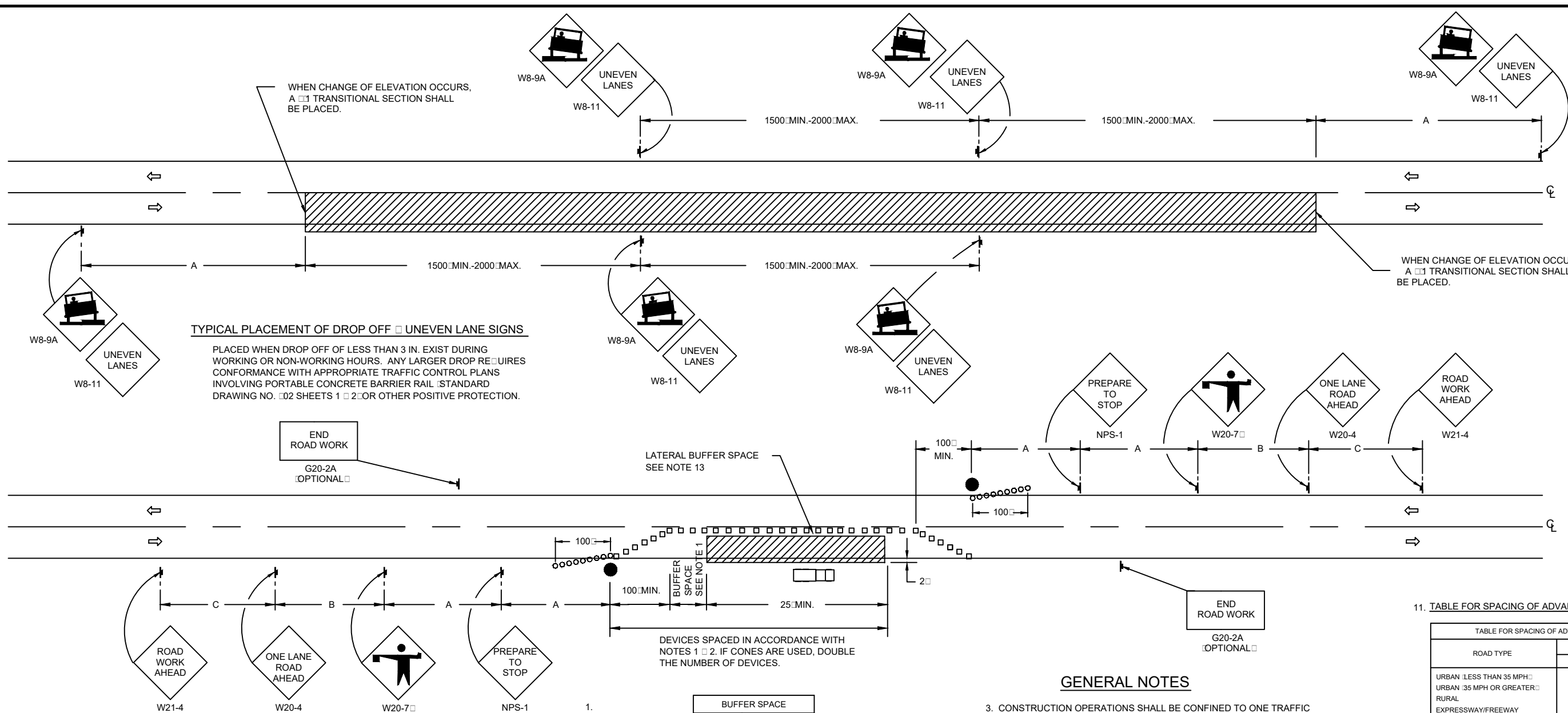
TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK CONE

SPECIFICATION REFERENCE

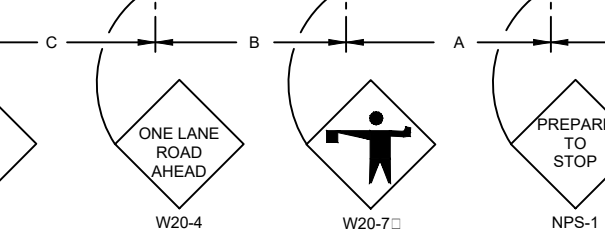
TYPICAL APPLICATION FOR
TWO-LANE, TWO-WAY, RURAL DAY OR NIGHT OPERATIONS WHERE ACTIVITIES
WILL ENCROACH BETWEEN 15 FT. ± 2 FT. OUTSIDE OF PAVEMENT EDGE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 07



TYPICAL PLACEMENT OF DROP OFF UNEVEN LANE SIGNS
 PLACED WHEN DROP OFF OF LESS THAN 3 IN. EXIST DURING WORKING OR NON-WORKING HOURS. ANY LARGER DROP REQUIRES CONFORMANCE WITH APPROPRIATE TRAFFIC CONTROL PLANS INVOLVING PORTABLE CONCRETE BARRIER RAIL STANDARD DRAWING NO. 02 SHEETS 1 & 2 OR OTHER POSITIVE PROTECTION.



BUFFER SPACE	
SPEED M.P.H.	BUFFER SPACE FT.
70	585
65	485
60	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.

SPEED MILES PER HOUR 85 PERCENTILE	TAPER LENGTHS FOR LANE CLOSURES - DISTANCE L			NUMBER OF CHANNELLING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	6	25
30	150	155	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

2. ALL DEVICES ESTABLISHING A TAPER OR A TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.

GENERAL NOTES

- CONSTRUCTION OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE, LEAVING THE OPPOSITE LANE OPEN TO TRAFFIC. AT LEAST 500 FT. OF BOTH TRAFFIC LANES SHALL BE AVAILABLE FOR TRAFFIC MOVEMENT AT INTERVALS NOT GREATER THAN 1000 FT.
- IF THE WORK OPERATION DOES NOT EXCEED 30 MINUTES, TRAFFIC CONTROL MAY BE IN CONFORMANCE WITH STANDARD DRAWING NO. 003.
- THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- WHEN NO WORK IS BEING PERFORMED, THE FLAGGERS WILL NOT BE REQUIRED. IF THE FLAGGERS ARE NOT PRESENT, THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED.
- ALL SIGNS, CONES, BARRICADES, AND DRUMS SHALL BE REMOVED AT COMPLETION OF OPERATIONS DURING DAYLIGHT AND THE WORK AREA OPEN TO TRAFFIC.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGER MAY BE VARIED FROM SHOWN.
- ALL VEHICLES, EQUIPMENT, WORKERS EXCEPT FLAGGERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
- ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.

11. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN LESS THAN 35 MPH	200	200	200
URBAN 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

12. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-0011 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200
CLARK COUNTY	455-0100
HENDERSON	515-2140
LAS VEGAS	229-0331
MESQUITE	340-5295
NORTH LAS VEGAS	42-2412

13. A LATERAL BUFFER SPACE MAY BE REQUIRED TO SEPARATE WORK SPACE FROM TRAFFIC SPACE. THE WIDTH SHALL BE DETERMINED BY THE TRAFFIC ENGINEER.

14. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

TYPICAL APPLICATIONS

UTILITY OPERATIONS
PAVEMENT PATCH

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, BARRICADE OR DRUM
- TRAFFIC CONE
- TRAFFIC DIRECTION

AGENCY APPROVED	B	C	H	L	M	N
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TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE

SPECIFICATION REFERENCE

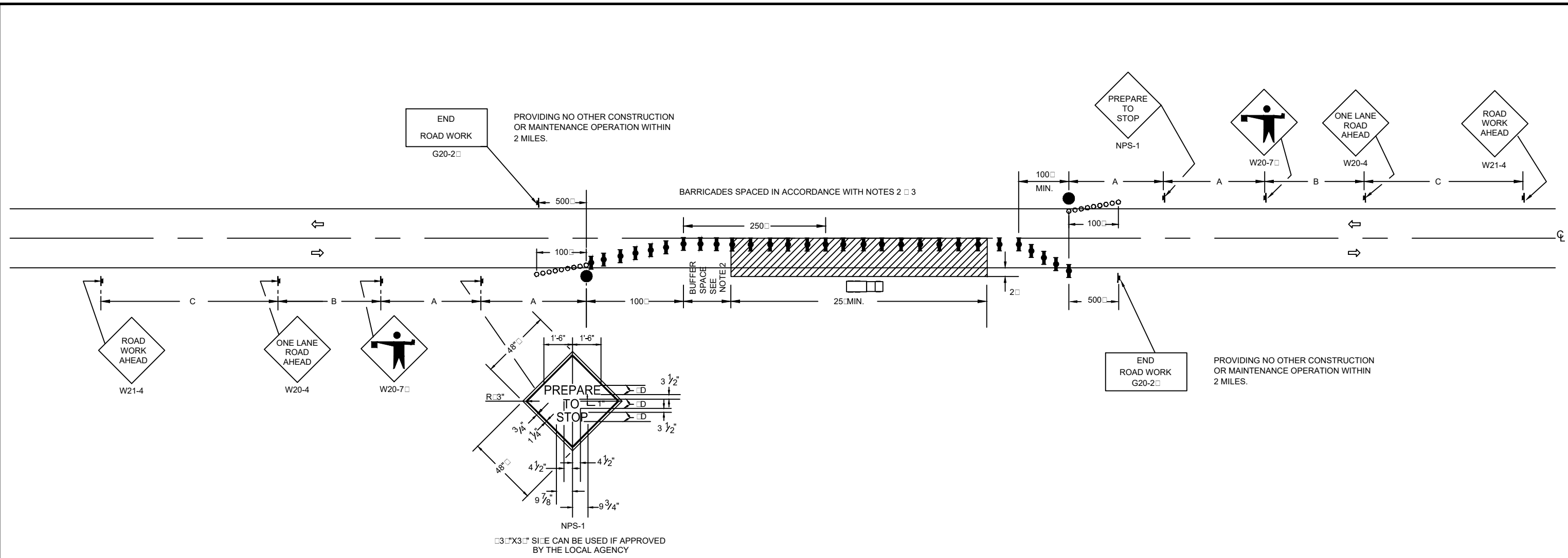
TYPICAL APPLICATION FOR

TWO-LANE, TWO-WAY, RURAL DAY OPERATIONS WHERE ACTIVITIES WILL ENCROACH BETWEEN CENTERLINE AND 2 FT. OUTSIDE OF PAVEMENT EDGE

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 08

Effective 10/08/2020 to 12/09/2020



TYPICAL APPLICATIONS

- ISOLATED PATCH
- INSTALLATION OF DRAINAGE STRUCTURE
- UTILITY OPERATIONS

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- TRAFFIC CONE
- TRAFFIC DIRECTION
- BARRICADE OR DRUM WITH STEADY BURNING LIGHT

1. CONSTRUCTION OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE, LEAVING THE OPPOSITE LANE OPEN TO TRAFFIC.
- 2.

BUFFER SPACE	
SPEED □ M.P.H. □	BUFFER SPACE □ FT. □
70	585
65	485
60	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

□ POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.

SPEED MILES PER HOUR 85th PERCENTILE	TAPER LENGTHS FOR LANE CLOSURES - DISTANCE L			NUMBER OF CHANNELLING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	6	25
30	150	155	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

GENERAL NOTES

3. ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.
4. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
5. FLAGGERS SHALL BE REQUIRED AT ALL ENTRY POINTS INTO THE WORK AREA.
- ALL SIGNS SHALL BE GROUND-MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION 25 OF THE UNIFORM STANDARD SPECIFICATIONS.
7. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK CONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
8. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGERS MAY BE VARIED FROM THAT SHOWN.
9. ALL VEHICLES, EQUIPMENT, WORKERS EXCEPT FLAGGERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
10. ALL BARRICADE LIGHTS SHALL BE BIDIRECTIONAL, EXCEPT LIGHTS ON TAPER BARRICADES, WHICH SHALL BE MONODIRECTIONAL.
11. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.

12. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

TABLE FOR SPACING OF ADVANCE WARNING SIGNS			
ROAD TYPE	A	B	C
	URBAN LESS THAN 35 MPH □	200	200
URBAN 35 MPH OR GREATER □	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

13. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

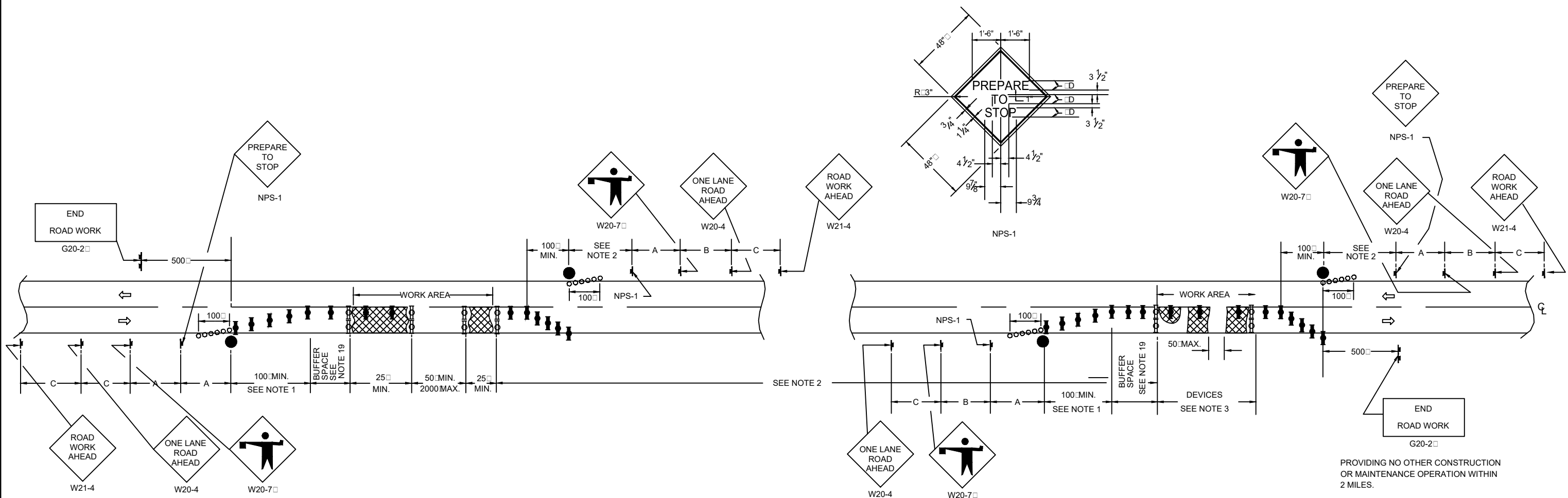
BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	5-5-2140		
LAS VEGAS	229-1331		

14. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
15. A LATERAL BUFFER SPACE MAY BE REQUIRED TO SEPARATE WORK SPACE FROM TRAFFIC SPACE. THE WIDTH SHALL BE DETERMINED BY THE TRAFFIC ENGINEER.
16. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK □ ONE	SPECIFICATION REFERENCE	TYPICAL APPLICATION FOR TWO-LANE, TWO-WAY, RURAL NIGHT OPERATIONS WHERE ACTIVITIES WILL ENCROACH BETWEEN CENTERLINE □ 2 FT. OUTSIDE OF PAVEMENT EDGE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
			DATE 1-9-97 DWG NO. □09

Effective 10/08/2020 to 12/09/2020



PROVIDING NO OTHER CONSTRUCTION OR MAINTENANCE OPERATION WITHIN 2 MILES.

GENERAL NOTES

- ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.
- WHEN THE DISTANCE BETWEEN SUCCESSIVE PATCHES IS LESS THAN 2,000 FT., THE ENTIRE OPERATION MAY BE CONSIDERED AS ONE WORK AREA FOR SIGNING PURPOSES. WHEN SINGLE-SIGNING SET-UP IS USED FOR WORK SITES UP TO 2,000 FT. APART, LANE CLOSURE SHOULD BE CONTINUED THROUGH ENTIRE WORK. WHEN THE DISTANCE BETWEEN SUCCESSIVE PATCHES EXCEEDS 2,000 FT., ADDITIONAL WARNING SIGNS AND TAPER SHALL BE PLACED AS REQUIRED FOR DISTANCES LESS THAN 2,000 FT. AT THE DISCRETION OF THE TRAFFIC ENGINEER.
- WHERE SUCCESSIVE PATCHES ARE MORE THAN 50 FT. BUT LESS THAN 2,000 FT. APART, BARRICADES WITH FLASHING LIGHTS SHALL BE PLACED ON THE PAVEMENT BEYOND AND IN ADVANCE OF THE WORK AREAS. ALL BARRICADES WILL HAVE THE REFLECTIVE SURFACE FACING TRAFFIC AT NIGHT.
- THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIME AND SHALL BE POSITIONED TO PROTECT THE WORKERS. THE FIRST FLAGGER SHALL BE A MINIMUM OF 200 FT. AND A MAXIMUM DISTANCE OF 1/2 DAY'S NORMAL OPERATION BEYOND THE FLAGGER SIGN AND A MINIMUM OF 100 FT. IN ADVANCE OF THE WORK PARTY.
 - WHEN NO WORK IS BEING PERFORMED, THE FLAGGERS WILL NOT BE REQUIRED. IF THE FLAGGERS ARE NOT PRESENT, THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED, AND ALL BARRICADES OR CONES SHALL BE REMOVED.
- FLAGGERS SHALL BE REQUIRED AT ALL ENTRY POINTS INTO THE WORK AREA.
- LIGHTS WILL NOT BE REQUIRED ON BARRICADES FOR DAY OPERATIONS.
- WHEN THE DISTANCE BETWEEN PATCHES IS LESS THAN 500 FT., THE BARRICADE ADJACENT TO THE EDGE OF PAVEMENT ON THE FAR SIDE OF THE PATCH MAY BE OMITTED.
- ALL SIGNS SHALL BE GROUND-MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION 25 OF THE UNIFORM STANDARD SPECIFICATIONS.
- TYPE "B" HIGH INTENSITY FLASHING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ZONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGERS MAY BE VARIED FROM THAT SHOWN.
- ALL VEHICLES, EQUIPMENT, WORKERS EXCEPT FLAGGERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
- ALL BARRICADE LIGHTS SHALL BE BIDIRECTIONAL, EXCEPT LIGHTS ON TAPER BARRICADES, WHICH SHALL BE MONODIRECTIONAL.
- ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
- CONSTRUCTION OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE, LEAVING THE OPPOSITE LANE OPEN TO TRAFFIC. AT LEAST 500 FT. OF BOTH TRAFFIC LANES SHALL BE AVAILABLE FOR TRAFFIC MOVEMENT AT INTERVALS NOT GREATER THAN 1000 FT. TWO FLAGGERS SHALL BE REQUIRED FOR EACH SEPARATE CONSTRUCTION OPERATION. ALL WORK AREAS SHALL BE PROTECTED DURING PERIODS WHEN WORKERS ARE PRESENT BY CONES OR BARRICADES ALONG THE CENTER LINE.
 - DURING DAYTIME OPERATIONS, CONES MAY BE SUBSTITUTED FOR BARRICADES AT HALF THE BARRICADE SPACING.

17. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT.)		
	A	B	C
URBAN (LESS THAN 35 MPH)	200	200	200
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1000	2000

18. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200
CLARK COUNTY	455-1100
HENDERSON	515-2140
LAS VEGAS	229-3311
MESQUITE	341-5295
NORTH LAS VEGAS	42-2412

- 19.

BUFFER SPACE	
SPEED (M.P.H.)	BUFFER SPACE (FT.)
70	585
65	485
60	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.

- A LATERAL BUFFER SPACE MAY BE REQUIRED TO SEPARATE WORK SPACE FROM TRAFFIC SPACE. THE WIDTH SHALL BE DETERMINED BY THE TRAFFIC ENGINEER.
- FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
- ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF IF RE-ROUTING NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

TAPER LENGTHS FOR LANE CLOSURES - DISTANCE L					
SPEED (MILES PER HOUR 85TH PERCENTILE)	TAPER LENGTH (LANE WIDTH IN FEET)			NUMBER OF CHANNELLING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	6	25
30	150	165	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE	SPECIFICATION REFERENCE	TYPICAL APPLICATION FOR TWO-LANE, TWO-WAY, RURAL DAY OR NIGHT OPERATIONS WHERE ACTIVITIES WILL ENCROACH BETWEEN CENTERLINE 2 FT. OUTSIDE OF PAVEMENT EDGE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
			DATE 1-9-97 DWG NO. 10

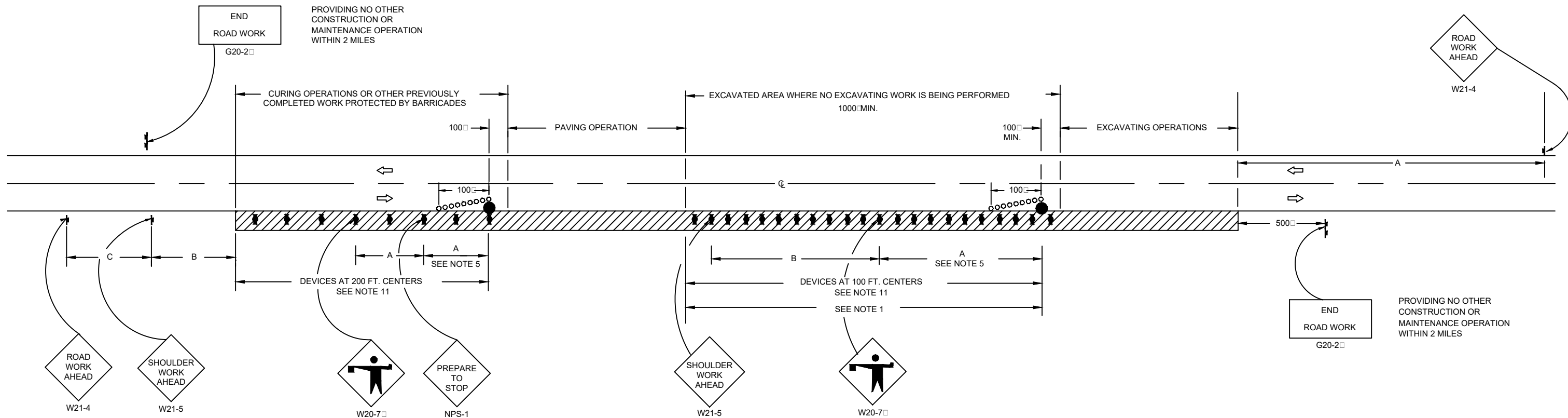


TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1000	2000

- WHERE THE DISTANCE BETWEEN PAVING AND EXCAVATING OPERATIONS IS LESS THAN 2,000 FT. THE ENTIRE OPERATION MAY BE CONSIDERED AS ONE WORK AREA FOR SIGNING PURPOSES. WHEN THE DISTANCE BETWEEN OPERATIONS EXCEEDS 2,000 FT. ADDITIONAL WARNING SIGNS SHALL BE PLACED AS SHOWN. UNDER RESTRICTED SIGHT DISTANCE CONDITIONS, SUCH ADDITIONAL DEVICES MAY ALSO BE REQUIRED FOR DISTANCES LESS THAN 2,000 FT. AT THE DISCRETION OF THE TRAFFIC ENGINEER.
- ONE FLAGGER SHALL BE REQUIRED FOR EACH SEPARATE CONSTRUCTION OPERATION. FOR RESIDENTIAL STREETS 25 MPH OR LESS, FLAGGERS MAY BE REQUIRED AS DIRECTED BY THE TRAFFIC ENGINEER.
- THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
- NO PAVING OR EXCAVATING OPERATIONS SHALL BE PERFORMED AT NIGHT UNLESS AUTHORIZED BY THE TRAFFIC ENGINEER.
- MAXIMUM DISTANCE TO BE DETERMINED BY THE TRAFFIC ENGINEER BUT IN NO CASE TO EXCEED THE LENGTH OF 1/2 DAY'S NORMAL OPERATION.
- ALL SIGNS SHALL BE GROUND-MOUNTED IF THE WORKING TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION 25 OF THE UNIFORM STANDARD SPECIFICATIONS.
- TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ZONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGER MAY BE VARIED FROM THAT SHOWN.
- ALL VEHICLES, EQUIPMENT, WORKERS, FLAGGERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE ROADWAY UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
- ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
- ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.
- IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-3311 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	LAS VEGAS	229-3311
CLARK COUNTY	455-1100	MESQUITE	34-5295
HENDERSON	565-2140	NORTH LAS VEGAS	42-2412

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- BARRICADE OR DRUM WITH STEADY BURNING LIGHT
- TRAFFIC CONE
- TRAFFIC DIRECTION

- FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
- ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

AGENCY APPROVED	B	C	H	L	M	N
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TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ZONE

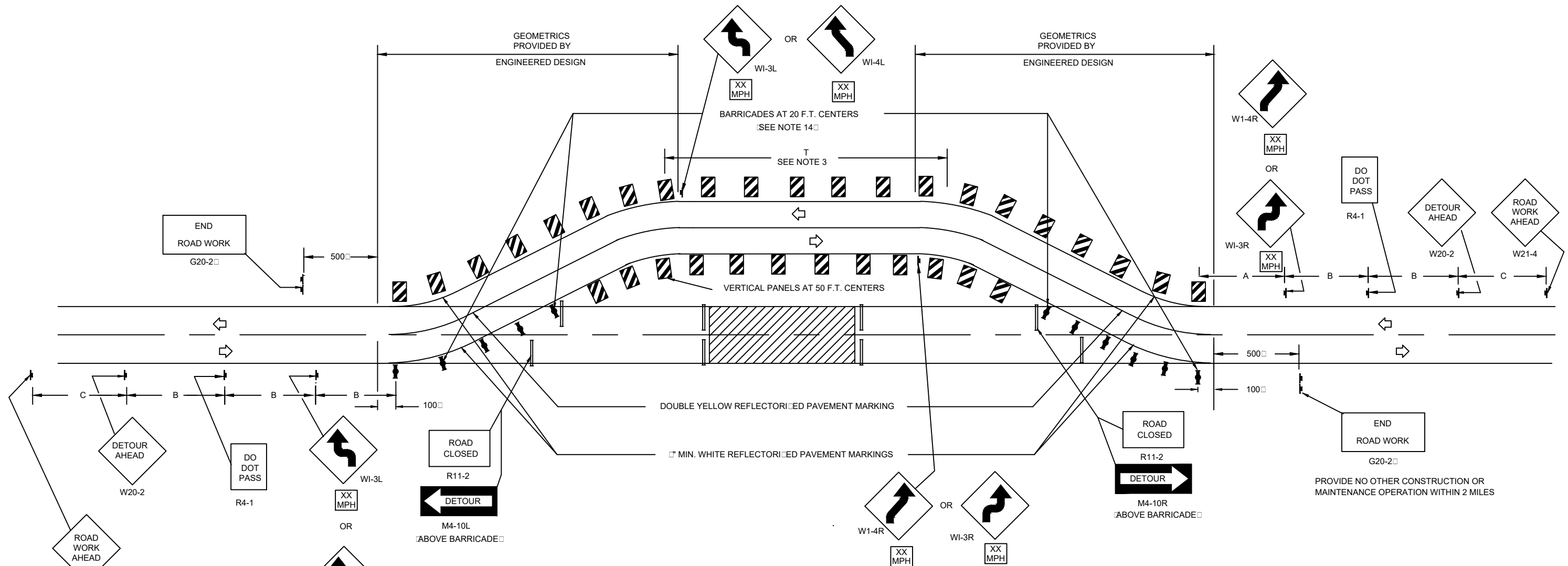
SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR

TWO-LANE, TWO-WAY, RURAL OR SUBURBAN, DAY OR NIGHT PAVEMENT WIDENING

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 11



GENERAL NOTES

1. ALL TEMPORARY BYPASSES SHALL BE PAVED WHEN DURATION EXCEEDS TIME LIMITS ESTABLISHED BY THE ENTITY. GRADED & COMPACTED GRAVEL ACCEPTABLE FOR DURATIONS ESTABLISHED BY THE ENTITY. SEE SHEET 2 OF THIS DRAWING FOR UNPAVED TEMPORARY BYPASS.
2. ON PAVED BYPASSES, REFLECTIVE EDGE LINES AND A CENTER LINE REFLECTORIZED, REMOVABLE, NON-FOIL PAVEMENT MARKING TAPE SHALL BE USED FOR MARKING THE EDGE LINES AND CENTER LINE ON EXISTING PAVEMENT. REFLECTORIZED PAVEMENT MARKING PAINT MAY BE USED FOR MARKINGS ON THE PAVED BYPASSES. RAISED REFLECTIVE PAVEMENT MARKERS CONFORMING TO CLARK COUNTY STANDARDS MAY BE USED IN LIEU OF TAPE OR PAINT WHERE THE PAVEMENT MARKING IS TO BE PLACED ADJACENT TO BARRICADES OR VERTICAL PANELS. ALL EXISTING PAVEMENT MARKING WHICH CONFLICT WITH THE REVISED TRAFFIC PATTERN SHALL BE REMOVED. IF STRIPING IS TO BE PLACED ON FINAL PAVEMENT ONLY REMOVABLE, NON-FOIL TAPE SHALL BE USED. EDGE LINE MARKINGS SHALL BE A MINIMUM OF 4 IN. WIDE.
3. WHEN CURVE IS GREATER THAN 800 FEET, 4 FOOT LENGTHS OF SINGLE YELLOW REFLECTORIZED, REMOVABLE, NON-FOIL PAVEMENT MARKING TAPE AT 40 FOOT CENTERS MAY BE USED WITHIN THE TANGENT SECTION ONLY IF PASSING CONES CAN BE SAFELY ALLOWED IN ACCORDANCE WITH MUTCD SECTS. 3B-3 THRU. 3B-5.
4. A CURVE SIGN WILL BE REQUIRED AT EXIT END OF THE BYPASS IF CURVE IS EQUAL TO OR GREATER THAN 1,000 FEET.
5. THE ADVISORY SAFE SPEED TO BE SHOWN BELOW THE REVERSE CURVE TURN SIGNS SHALL BE DETERMINED AT THE SITE AND APPROVED BY THE TRAFFIC ENGINEER.
6. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES FOR DAY OPERATIONS.
7. CONES MAY BE SUBSTITUTED FOR BARRICADES AT HALF THE SPACING DURING DAY OPERATIONS.
8. ALL SIGNS SHALL BE GROUND-MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION 25 OF THE UNIFORM STANDARD SPECIFICATIONS.
9. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK CONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
10. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER.
11. ALL BARRICADE LIGHTS SHALL BE BIDIRECTIONAL.
12. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
13. **TABLE FOR SPACING OF ADVANCE WARNING SIGNS**

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
URBAN (LESS THAN 35 MPH)	200	200	200
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00
14. ALL DEVICES INDICATED SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED.
15. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	515-2140		
LAS VEGAS	229-331		
16. WHERE THE TEMPORARY PAVEMENT AND OLD PAVEMENT ARE DIFFERENT COLORS, THE TEMPORARY PAVEMENT SHOULD START ON THE TANGENT OF THE EXISTING PAVEMENT AND END ON THE TANGENT OF THE EXISTING PAVEMENT.
17. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.
18. IF THE DETOUR IS SHORT AND HAS SHARP CURVES (30 MPH OR LESS), REVERSE TURN W1-3 SIGN SHOULD BE USED.
19. PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE SHALL BE MASKED WITH APPROVED BLACKOUT TAPE OR OBLITERATED AS APPROVED BY THE TRAFFIC ENGINEER.

TYPICAL APPLICATIONS

BRIDGE CONSTRUCTION
CULVERT CONSTRUCTION

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- BARRICADE OR DRUM WITH STEADY BURNING LIGHT
- VERTICAL PANEL
SEE STANDARD DRAWING NO. 01 SHEET 1
- TYPE III BARRICADE
- TRAFFIC DIRECTION

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE

SPECIFICATION REFERENCE

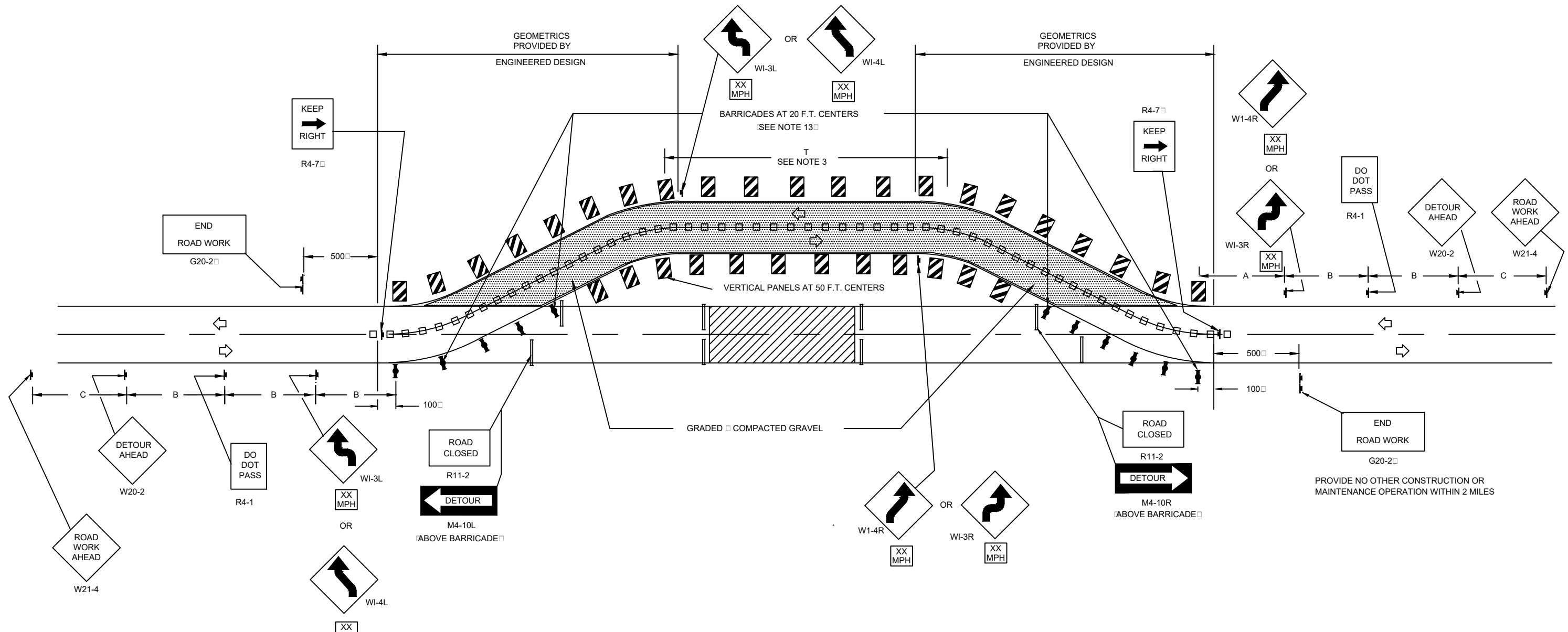
TYPICAL APPLICATION FOR

TWO-LANE, TWO-WAY, RURAL OR SUBURBAN, DAY OR NIGHT TEMPORARY PAVED BYPASS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 12 SHEET 1 OF 2

Effective 10/08/2020 to 12/09/2020



TYPICAL APPLICATIONS

BRIDGE CONSTRUCTION
CULVERT CONSTRUCTION

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- BARRICADE OR DRUM WITH STEADY BURNING LIGHT
- VERTICAL PANEL
(SEE STANDARD DRAWING NO. 01 SHEET 1)
- TYPE III BARRICADE
- TRAFFIC DIRECTION
- TRAFFIC CONE OR VERTICAL PANEL (SEE NOTE 2)

1. TEMPORARY UNPAVED BYPASSES SHALL BE GRADED AND COMPACTED GRAVEL AND ARE ACCEPTABLE FOR TIME LIMITS ESTABLISHED BY THE ENTITY.
2. REFLECTORIZED 28 IN. MIN. TRAFFIC CONES OR VERTICAL PANELS SHALL BE USED FOR CENTERLINE DELINEATION FOR SHORT-TERM PROJECTS. FOR LONG TERM PROJECTS OF 72 CONTINUOUS HOURS OR MORE AND PROJECTS PERFORMED AT NIGHT, VERTICAL PANELS SHALL BE USED. SEE STANDARD DRAWING 01 SHEET 1 FOR DETAILS OF CONES AND PANELS.
3. A CURVE SIGN WILL BE REQUIRED AT EXIT END OF THE BYPASS IF DISTANCE EQUAL TO OR GREATER THAN 1,000 FEET.
4. THE ADVISORY SAFE SPEED TO BE SHOWN BELOW THE REVERSE CURVE TURN SIGNS SHALL BE DETERMINED AT THE SITE AND APPROVED BY THE TRAFFIC ENGINEER.
5. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES FOR DAY OPERATIONS.
6. CONES MAY BE SUBSTITUTED FOR BARRICADES AT HALF THE SPACING DURING DAY OPERATIONS.
7. ALL SIGNS SHALL BE GROUND-MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION 25 OF THE UNIFORM STANDARD SPECIFICATIONS.

GENERAL NOTES

8. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER.
10. ALL BARRICADE LIGHTS SHALL BE BIDIRECTIONAL.
11. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
12. **TABLE FOR SPACING OF ADVANCE WARNING SIGNS**

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
URBAN (LESS THAN 35 MPH)	200	200	200
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

13. ALL DEVICES INDICATED SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED.
14. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	55-2140		
LAS VEGAS	229-3331		
15. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.
16. IF THE DETOUR IS SHORT AND HAS SHARP CURVES (30 MPH OR LESS), REVERSE TURN W1-3 SIGN SHOULD BE USED.
17. PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE SHALL BE MASKED WITH APPROVED BLACKOUT TAPE OR OBLITERATED AS APPROVED BY THE TRAFFIC ENGINEER.

AGENCY APPROVED B C H L M N

**TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ONE**

SPECIFICATION REFERENCE

**TYPICAL APPLICATION FOR
TWO-LANE, TWO-WAY, RURAL OR SUBURBAN, DAY OR
NIGHT TEMPORARY UNPAVED BYPASS**

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

DATE 1-9-97 DWG NO. 12 SHEET 2 OF 2

SEQUENCE OF OPERATIONS						
PHASE	A			B		CONFLICT
INTERVAL	1	2	3	4	5	
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	RED FLASH
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	RED FLASH

IF A.D.T. IS	MAXIMUM DISTANCE (FT.)
□ 8000	300
□ 5000 □ 8000	500
□ 5000	700

PROVIDING NO OTHER CONSTRUCTION OR MAINTENANCE OPERATION WITHIN 2 MILES

END ROAD WORK
G20-2

NO PASSING ONE
W14-3

WHITE REFLECTORIZED, REMOVABLE, NON-FOIL PAVEMENT MARKING TAPE
SEE NOTE 20

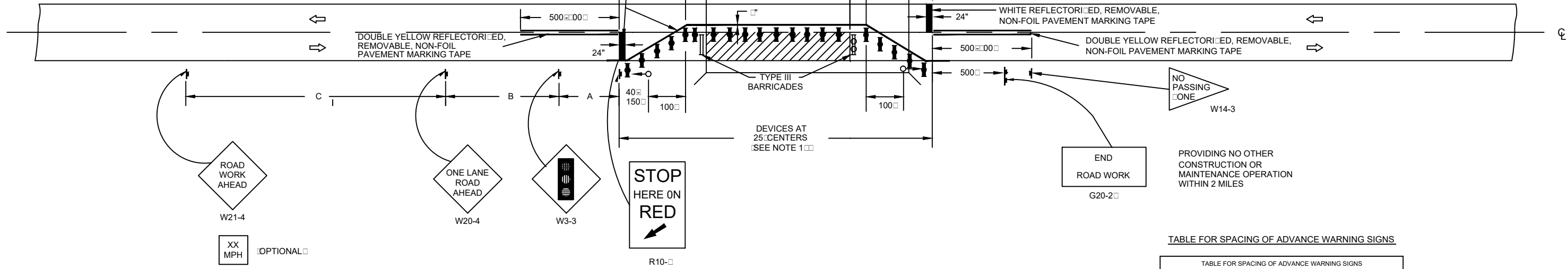
STOP HERE ON RED
R10-□

W3-3

ONE LANE ROAD AHEAD
W20-4

ROAD WORK AHEAD
W21-4

XX MPH OPTIONAL



GENERAL NOTES

1. THE TRAFFIC ENGINEER MUST BE NOTIFIED AT LEAST 72 HOURS PRIOR TO PLACING THE TEMPORARY SIGNALS IN OPERATION SO THAT ARRANGEMENTS CAN BE MADE TO INSPECT THE INSTALLATION AND SET THE TIMING OF THE SIGNALS.
2. AT ANY TIME THAT THE SIGNALS ARE NOT OPERATING THE SIGNAL HEAD SHALL BE HOODED AND THE SIGNAL AHEAD SIGN COVERED OR REMOVED.
3. THE LEFT SIGNAL HEAD SHALL NORMALLY BE MOUNTED AT A HEIGHT OF 10 FEET ABOVE THE ROAD SURFACE MEASURED TO THE BOTTOM OF THE SIGNAL HEAD. THE RIGHT HEAD SHALL NORMALLY BE MOUNTED AT A HEIGHT OF 14 FEET ABOVE THE ROAD SURFACE. BAFFLE OR BACK PLATES WILL BE REQUIRED ON ALL SIGNALS. A MAST ARM SIGNAL SHOULD BE USED ON THE RIGHT SIDE WHEN EVER POSSIBLE.
4. ALL LENSES SHALL BE 12 INCH NOMINAL DIAMETER. THE RIGHT SIGNAL HEAD SHALL BE AIMED SO THE CENTERS OF THE LIGHT BEAMS OF THE INDICATIONS ARE DIRECTED TOWARD A POINT IN THE CENTER OF THE APPROACH LANE 500 FEET IN ADVANCE OF THE SIGNAL. THE LEFT INDICATION SHALL BE AIMED AT A POINT IN THE CENTER OF THE APPROACH LANE 100 FEET IN ADVANCE OF THE STOP LINE.
5. EACH SIGNAL SHALL BE WIRED TO ALLOW FOR FLASH RED.
 - IF FLAGGERS ARE USED INSTEAD OF TRAFFIC SIGNALS, THE TRAFFIC CONTROL DEVICES SHALL CONFORM TO STANDARD DRAWING NO. □01. A 100 FT. CONE TAPER SHALL BE PROVIDED PRIOR TO FLAGGER STATION TO PROTECT THE FLAGGER. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
7. DURING DAYTIME OPERATIONS CONES MAY BE SUBSTITUTED FOR BARRICADES WITH STEADY BURNING LIGHTS AT HALF THE BARRICADE SPACING.
8. STEADY BURNING LIGHTS WILL NOT BE REQUIRED FOR DAY

9. BIDIRECTIONAL LIGHTS SHALL BE USED AT NIGHT ALONG THE CENTER LINE WHETHER THE WORK AREA IS SEPARATED FROM THE TRAVELLED LANE USING BARRICADES OR BY USING OTHER DEVICES. MONODIRECTIONAL LIGHTS SHALL BE USED AT NIGHT ON ALL OTHER BARRICADES.
10. ALL SIGNS SHALL BE GROUND-MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION □25 OF THE UNIFORM STANDARD SPECIFICATIONS.
11. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK □ONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
12. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER.
13. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
14. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71□.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
15. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-□□11 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	LAS VEGAS	229-□331
CLARK COUNTY	455-□100	MESQUITE	34□-5295
HENDERSON	5□5-2140	NORTH LAS VEGAS	□42-24□2

TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT.)		
	A	B	C
URBAN LESS THAN 35 MPH	200	200	200
URBAN 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

- 1□ ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.
17. ADE□UATE AREA ILLUMINATION TO CLEARLY IDENTIFY BOTH ENDS OF THE WORK SPACE AT NIGHT FOR LONG-TERM OPERATIONS OF 72 CONTINUOUS HOURS OR MORE SHOULD BE PROVIDED.
18. A LATERAL BUFFER SPACE MAY BE REQUIRED TO SEPARATE WORK SPACE FROM TRAFFIC SPACE. THE WIDTH SHALL BE DETERMINED BY THE TRAFFIC ENGINEER.
19. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.
20. EDGE LINE SHALL BE A MINIMUM OF □IN. WIDE AND SHOULD BE INSTALLED FROM THE START OF THE TAPER TO A POINT BEYOND THE WORK AREA REJOINING THE PERMANENT EDGE LINE.
21. FOR LONG TERM PROJECTS OF 72 CONTINUOUS HOURS OR MORE, CONFLICTING PAVEMENT MARKINGS BETWEEN ACTIVITY AREA AND STOP LINE SHALL BE REMOVED.

TYPICAL APPLICATIONS

BRIDGE DECK REPAIR
ONE-HALF ROAD CONSTRUCTION

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- BARRICADE OR DRUM WITH FLASHING LIGHT
- BARRICADE OR DRUM WITH STEADY BURNING LIGHT
- BARRICADE OR DRUM
- TRAFFIC SIGNAL
- TRAFFIC DIRECTION

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK □ONE

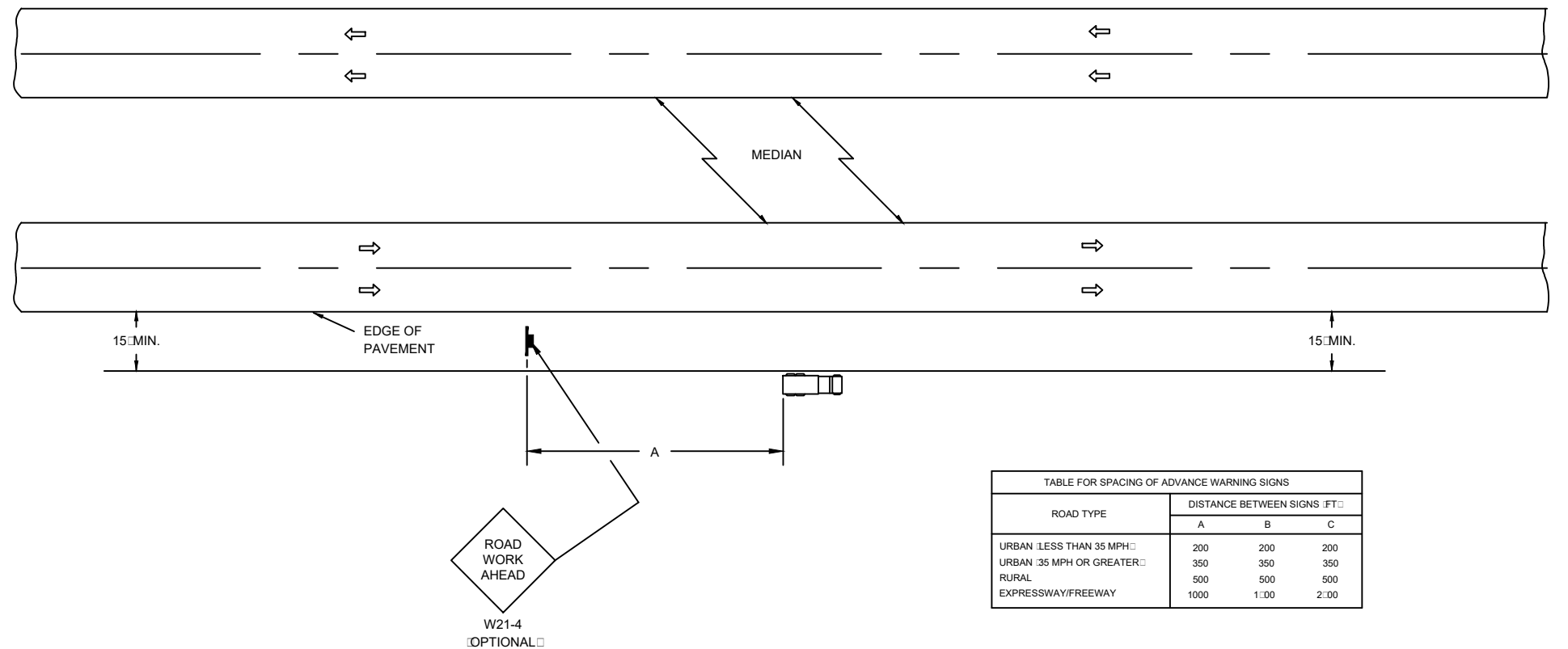
SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR

TWO-LANE, TWO-WAY, RURAL DAY OR NIGHT OPERATIONS WITH ONE LANE CLOSED

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 DWG NO. □13



TYPICAL APPLICATIONS

- LANDSCAPING WORK
- UTILITY WORK
- FENCING CONTRACTS AND MAINTENANCE
- CLEANING CULVERTS

GENERAL NOTES

- NO SPECIAL SIGNING IS REQUIRED.
- IF THE WORK OPERATION REQUIRES TWO OR MORE WORK VEHICLES CROSS THE 15 FT. CLEAR ZONE IN ANY ONE HOUR TRAFFIC CONTROL WILL BE IN CONFORMANCE WITH STANDARD DRAWING NO. 15.
- THIS CASE ALSO APPLIES TO WORK PERFORMED IN THE MEDIAN MORE THAN 15 FT. FROM EITHER PAVEMENT.
- IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

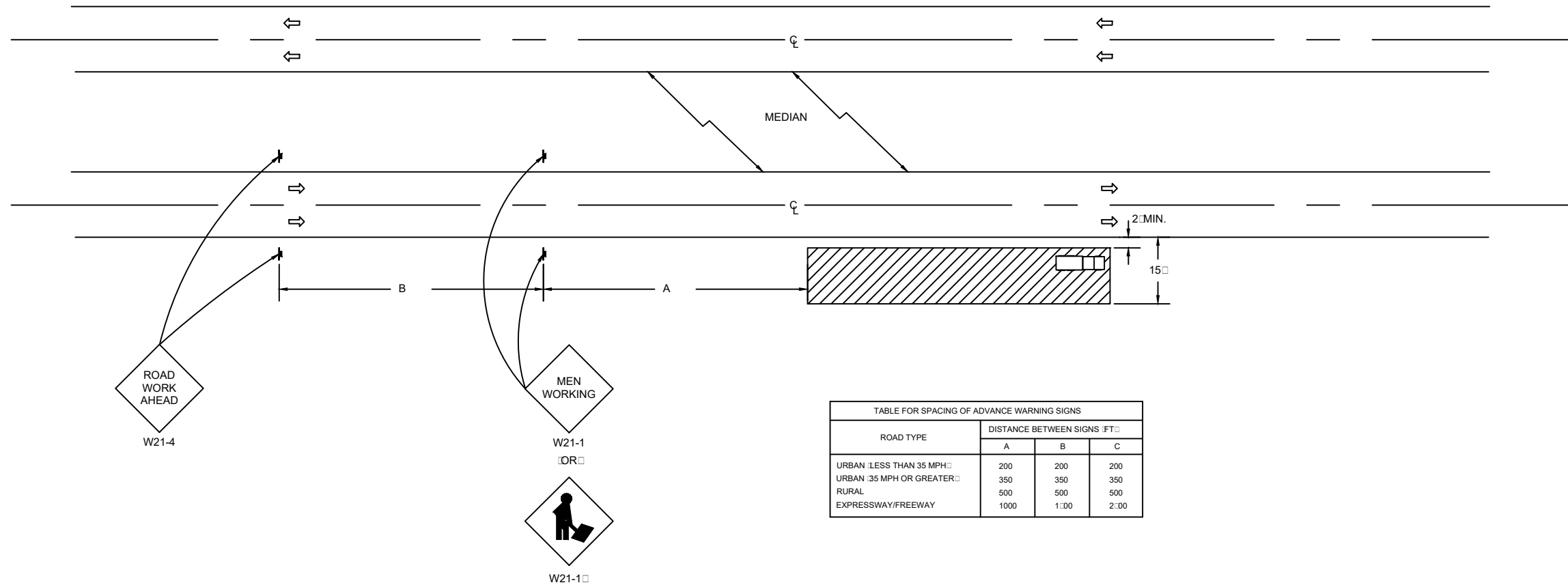
BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	5-2140		
LAS VEGAS	229-331		
- TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ZONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.

SYMBOLS

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TRAFFIC DIRECTION

Effective 10/08/2020 to 12/09/2020

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ZONE	SPECIFICATION REFERENCE	TYPICAL APPLICATION FOR MULTILANE, DIVIDED OR UNDIVIDED, RURAL OR SUBURBAN, DAY OR NIGHT OPERATIONS WHERE ACTIVITIES ARE MORE THAN 15 FT FROM EDGE OF PAVEMENT	AGENCY APPROVED B C H L M N					
			UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	DATE 1-9-97	DWG NO. 14			



ROAD TYPE	DISTANCE BETWEEN SIGNS - FT		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

- SYMBOLS**
- WORK AREA
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - SIGN ON PORTABLE OR PERMANENT SUPPORT

TYPICAL APPLICATIONS

- UTILITY OPERATIONS
- CULVERT EXTENSIONS
- SIDE SLOPE CHANGES
- GUARD RAIL INSTALLATION AND MAINTENANCE
- DELINEATOR INSTALLATION AND MAINTENANCE
- LANDSCAPING OPERATIONS
- CLEANING DITCHES AND DRAINAGE STRUCTURES
- SIGN INSTALLATION AND MAINTENANCE
- SHOULDER REPAIR

- WORKER SIGNS ARE TO BE REMOVED WHEN NO WORK IS BEING PERFORMED. ANY UNATTENDED OBSTACLE OR EXCAVATION IN THE WORK AREA WHICH IN THE OPINION OF THE TRAFFIC ENGINEER CONSTITUTES A HAZARD SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS AT NIGHT AT THE POINTS OF HAZARD. STEADY BURNING LIGHTS SHALL BE USED FOR DELINEATION AND LONG LINE GUIDANCE. BARRICADE SHALL BE PLACED ACCORDING TO MAXIMUM SPACING VALUES LISTED IN THE TABLE BELOW.

SPEED MILES PER HOUR 85 TH PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELLING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	6	25
30	150	165	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

GENERAL NOTES

- IF THE WORK OPERATION REQUIRES THAT FOUR OR MORE WORK VEHICLES ENTER THROUGH TRAFFIC LANES IN A ONE HOUR PERIOD, A FLAGGER SHALL BE SUBSTITUTED FOR THE WORKER SIGN. A 100 FT. CONE TAPER SHALL BE PROVIDED PRIOR TO FLAGGER STATION TO PROTECT THE FLAGGER. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
- THIS CASE ALSO APPLIES WHEN WORK IS BEING PERFORMED ON A MULTILANE UNDIVIDED HIGHWAY. UNDER THESE CONDITIONS THE SIGNS NORMALLY MOUNTED IN THE MEDIAN SHALL BE OMITTED.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS
- ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.

- REQUIRED PROTECTION FOR OPEN EXCAVATIONS DURING NON-WORKING HOURS. OPEN TRENCHES SHALL BE COMPLETELY FENCED. ALL FENCES TO BE SIX FOOT HIGH, NON-CLIMBABLE FENCE, BACKFILLED OR PLATED IN ANY AREA OF THE CITY OF LAS VEGAS THAT ARE WITHIN 300 FT. OF ANY BUILDING OR ROADWAY, AFTER WORKING HOURS. BEYOND 300 FT. TRENCH MAY BE PROTECTED BY A THREE FOOT MOUND OF EARTH COMPLETELY AROUND THE TRENCH AND TYPE II BARRICADES WITH FLASHERS SPOTTED AROUND THE TOP AFTER WORKING HOURS.

- IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

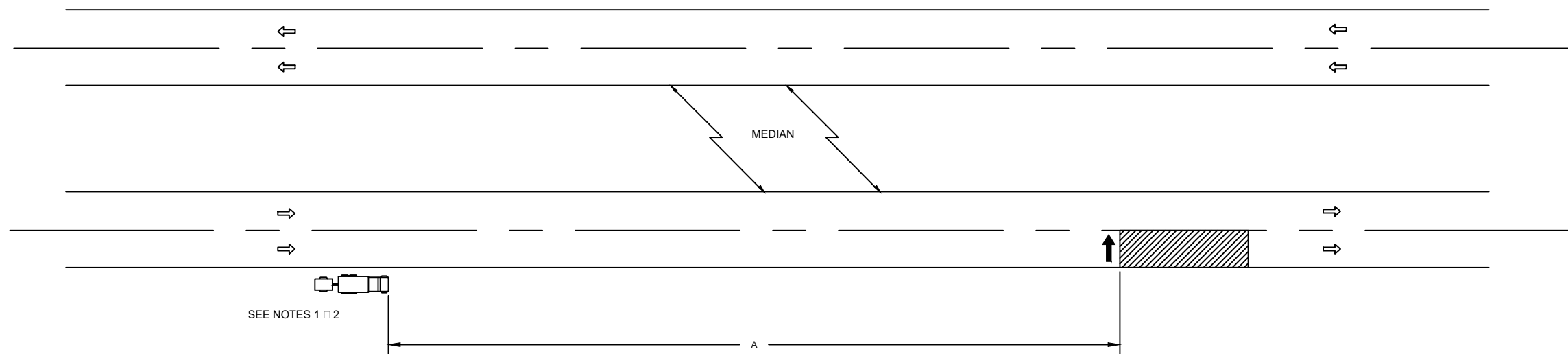
BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	515-2140		
LAS VEGAS	229-3311		

- IF THE WORK SPACE IS IN THE MEDIAN OF A DIVIDED HIGHWAY, AN ADVANCE WARNING SIGN SHOULD ALSO BE PLACED ON THE LEFT SIDE OF THE DIRECTIONAL ROADWAY.

- ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND

AGENCY APPROVED: B C H L M N

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE	SPECIFICATION REFERENCE	TYPICAL APPLICATION FOR MULTILANE, DIVIDED OR UNDIVIDED, RURAL OR SUBURBAN, DAY OR NIGHT OPERATIONS WHERE ACTIVITIES WILL ENCROACH BETWEEN 15 FT. ± 2 FT. OUTSIDE PAVEMENT EDGE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
			DATE 1-9-97 DWG NO. 15



SEE NOTES 1 & 2

GENERAL NOTES

- HIGHWAY, THE PROTECTION VEHICLE SHALL FOLLOW ON THE LEFT SHOULDER AND THE BOTTOM LINE SHALL READ "USE RIGHT LANE".
- IF WORK IS BEING PERFORMED ON THE CENTER LANE OF THE ROADWAY, TRAFFIC SHALL BE DIVERTED TO EITHER LEFT OR RIGHT LANE. AT NO TIME IS TRAFFIC PERMITTED TO PASS ON BOTH SIDES OF MOVING OPERATION. CENTER LANE OPERATIONS SHALL NOT BE PERFORMED DURING PEAK TRAVEL TIMES.
- THE LIGHTS ON THE TRAILER SHALL FLASH IN PAIRS ALTERNATING BETWEEN THE TWO OUTSIDE LIGHTS AND THE TWO INSIDE LIGHTS OR SEQUENTIAL FLASHING.
- ALL STRIPING SHALL HAVE ALTERNATING WHITE AND ORANGE STRIPES AT 45° FROM THE VERTICAL. ALL STRIPES SHALL BE 6" IN WIDTH.
- THE SIGN PANELS SHALL HAVE THE MINIMUM DIMENSIONS SHOWN AND HAVE BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
- PAVEMENT STRIPING AND CONE PICKUP WILL BE CONSIDERED AS TWO SEPARATE OPERATIONS.
- WHERE WORK OPERATIONS ARE MORE THAN 2 FT. FROM THE EDGE OF THE PAVEMENT, PROTECTION VEHICLES MAY BE OMITTED.
- THIS CASE DOES NOT APPLY WHEN WORK IS BEING PERFORMED IN THE MIDDLE LANE(S) OF A SIX OR MORE LANE HIGHWAY. SPECIAL PLANS APPROVED BY THE TRAFFIC ENGINEER ARE REQUIRED.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER.
- ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
- ALL WARNING SIGNS HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.

12. TABLE FOR SPACING OF FOLLOWING VEHICLE

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN (LESS THAN 35 MPH)	200	200	200
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

13. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200
CLARK COUNTY	455-1100
HENDERSON	515-2140
LAS VEGAS	229-3331
MESQUITE	34-5295
NORTH LAS VEGAS	42-2412

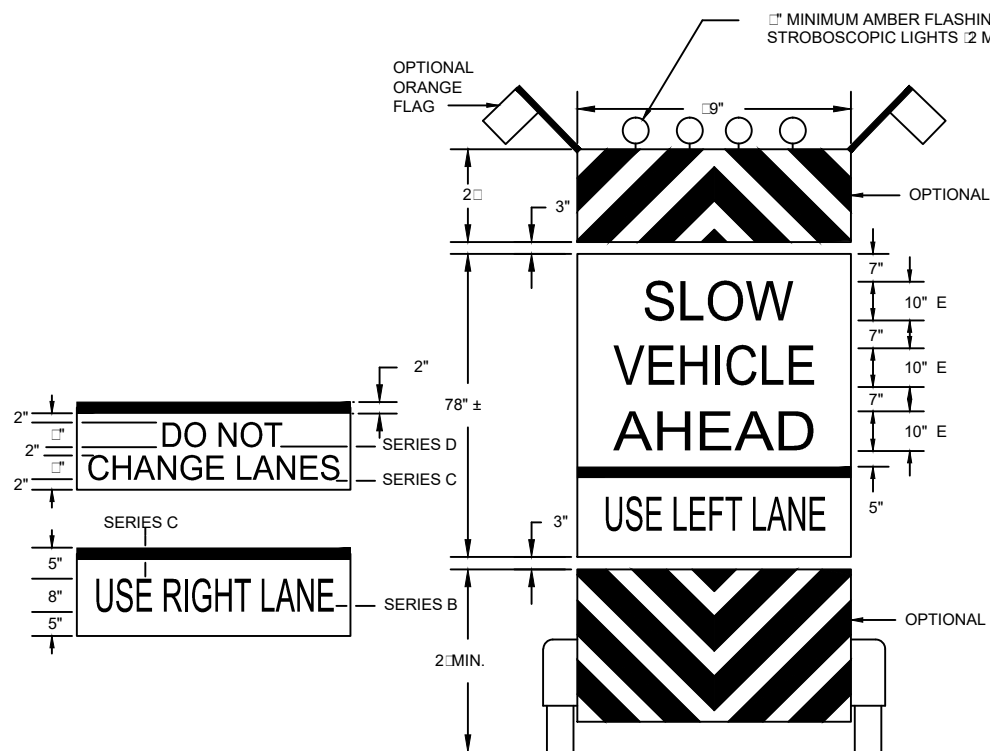
14. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

SYMBOLS

- WORK AREA
- VEHICLE MOUNTED ARROW PANEL
- TRAFFIC DIRECTION

TYPICAL APPLICATIONS

- PAVEMENT STRIPING
- WEED SPRAYING
- ROADMETER MEASUREMENTS



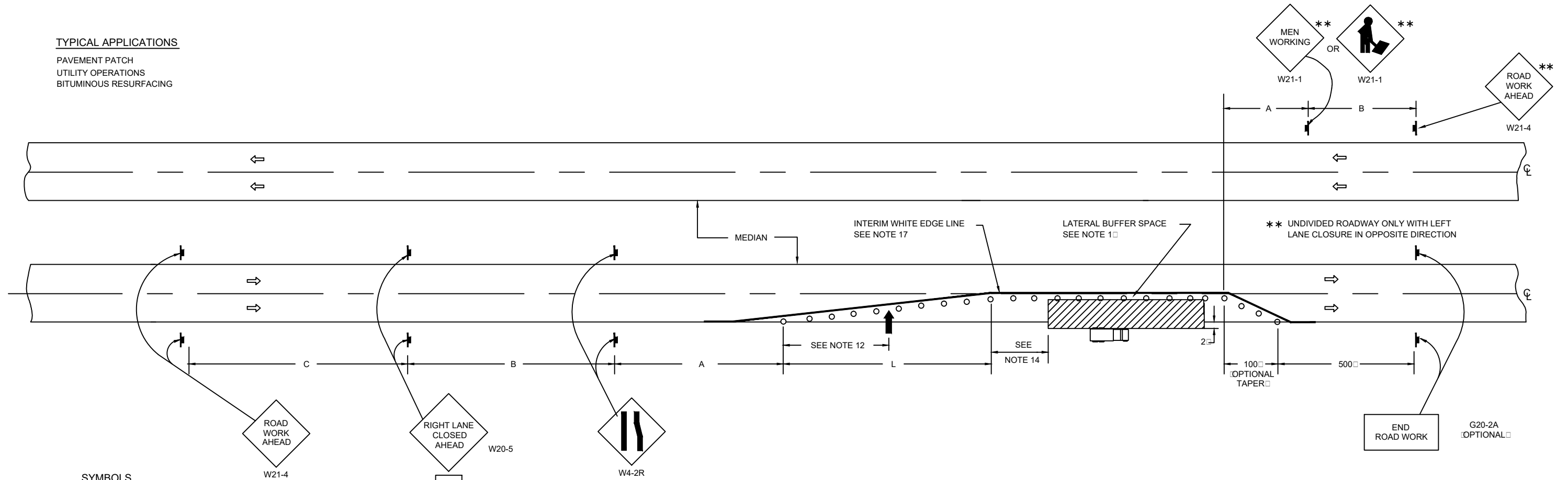
Effective 10/08/2020 to 12/09/2020

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE	SPECIFICATION REFERENCE	TYPICAL APPLICATION FOR MULTILANE, DIVIDED, RURAL OR SUBURBAN, DAY OPERATIONS WHERE OPERATION MOVES BETWEEN 1 MPH AND 15 MPH	AGENCY APPROVED	B	C	H	L	M	N
			UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	DATE 1-9-97	DWG NO. 11				

Effective 10/08/2020 to 12/09/2020

TYPICAL APPLICATIONS

PAVEMENT PATCH
UTILITY OPERATIONS
BITUMINOUS RESURFACING



SYMBOLS

- ARROW BOARD
- WORK AREA
- CONE, DRUM OR BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TRAFFIC DIRECTION

1. THE "L" DISTANCE EQUALS □

FORMULAS FOR TAPER LENGTH

SPEED FORMULA
40 M.P.H. OR UNDER $L = WS^2/100$
40 M.P.H. OR OVER $L = WS$

WHERE □

- L □ TAPER LENGTH
- W □ WIDTH OF LANE OR OFFSET
- S □ POSTED SPEED, OR OFF-PEAK 85TH PERCENTILE PRIOR TO WORK STARTING OR ANTICIPATED OPERATING SPEED

TAPER LENGTHS FOR LANE CLOSURES - DISTANCE L					
SPEED MILES PER HOUR 85 TH PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELIZING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	7	25
30	150	165	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

2. WHEN EQUIPMENT ENTERS OR EXITS THE WORK AREA DIRECTLY FROM THE ADJOINING LANE CARRYING TRAFFIC, A FLAGGER WILL BE REQUIRED. IF THE FLAGGER IS PRESENT, THE FLAGGER SIGN SHALL BE PLACED AT DISTANCE "A" PRIOR TO THE FLAGGER AND "PREPARE TO STOP" SIGN (W20-5) SHALL BE PLACED AT DISTANCE "A" PRIOR TO FLAGGER SIGN. FLAGGERS SHALL NOT BE REQUIRED FOR SPEEDS OF 25 MPH OR LESS. A 100 FT. CONE TAPER SHALL BE PROVIDED PRIOR TO FLAGGER STATION TO PROTECT THE FLAGGER. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.
3. THIS CASE ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE LEFT LANE. UNDER THESE CONDITIONS, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR RIGHT LANE CLOSED SIGNS. ON INDIVIDUAL HIGHWAYS, SIGNS SHALL BE ADDED IN THE OPPOSITE DIRECTION AS SHOWN AND CONES SHALL BE PLACED ALONG THE CENTERLINE THROUGHOUT THE TAPER AND WORK AREA.
4. ALL SIGNS, CONES, BARRICADES AND DRUMS ARE TO BE REMOVED AT COMPLETION OF THE DAY'S OPERATIONS AND THE WORK AREA OPENED TO TRAFFIC.
5. THIS CASE DOES NOT APPLY WHEN WORK IS BEING PERFORMED IN THE MIDDLE LANES OF A SIX OR MORE LANE HIGHWAY. SPECIAL PLANS APPROVED BY THE TRAFFIC ENGINEER WILL BE REQUIRED.
- CONES SHALL BE A MINIMUM OF 28 IN. IN HEIGHT.
7. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGERS, IF NECESSARY, MAY BE VARIED.

GENERAL NOTES

8. ALL VEHICLES, EQUIPMENT, WORKERS EXCEPT FLAGGERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
 9. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
 10. ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.
 11. **TABLE FOR SPACING OF ADVANCE WARNING SIGNS**
- | ROAD TYPE | DISTANCE BETWEEN SIGNS - FT. | | |
|-----------------------------|------------------------------|------|------|
| | A | B | C |
| URBAN - LESS THAN 35 MPH □ | 200 | 200 | 200 |
| URBAN - 35 MPH OR GREATER □ | 350 | 350 | 350 |
| RURAL | 500 | 500 | 500 |
| EXPRESSWAY/FREEWAY | 1000 | 1:00 | 2:00 |
12. ARROWBOARD PANELS SHALL BE USED ON HIGH SPEED ROADWAYS WITH SPEED LIMITS OVER 35 MPH OR AS DIRECTED BY THE TRAFFIC ENGINEER. ARROWBOARD SHOULD BE PLACED AS CLOSE TO THE BEGINNING OF THE TAPER AS POSSIBLE, AS SOON AS THERE IS ADEQUATE SPACE.
 13. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LOCALS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.
- | | | | |
|--------------|----------|-----------------|---------|
| BOULDER CITY | 293-9200 | LAS VEGAS | 229-331 |
| CLARK COUNTY | 455-1100 | MESQUITE | 34-5295 |
| HENDERSON | 555-2140 | NORTH LAS VEGAS | 42-2412 |

14. BUFFER SPACE SHALL BE □

BUFFER SPACE	
SPEED - M.P.H. □	BUFFER SPACE - FT. □
70	585
65	485
60	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

□ POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.

15. WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERRECTED, AS NEEDED.
16. A LATERAL BUFFER SPACE MAY BE REQUIRED TO SEPARATE WORK SPACE FROM TRAFFIC SPACE. THE WIDTH SHALL BE DETERMINED BY THE TRAFFIC ENGINEER.
17. FOR LONG TERM PROJECTS OF 72 CONTINUOUS HOURS OR MORE, A 6 IN. WIDE INTERIM WHITE EDGE LINE SHOULD BE INSTALLED FROM THE START OF THE TAPER TO A POINT BEYOND THE WORK AREA, REJOINING THE PERMANENT EDGE LINE. INTERIM EDGE LINE SHALL BE REMOVABLE, NON-FOIL PAVEMENT MARKING TAPE. FOR LEFT LANE CLOSURE, THE EDGE LINE SHALL BE YELLOW. PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE SHALL BE MASKED WITH APPROVED BLACKOUT TAPE OR OBLITERATED AS APPROVED BY THE TRAFFIC ENGINEER FROM THE END OF THE ENTRANCE TAPER TO A POINT LOCATED 1/2A FROM THE TAPER BEGINNING.
18. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

**TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ZONE**

SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR

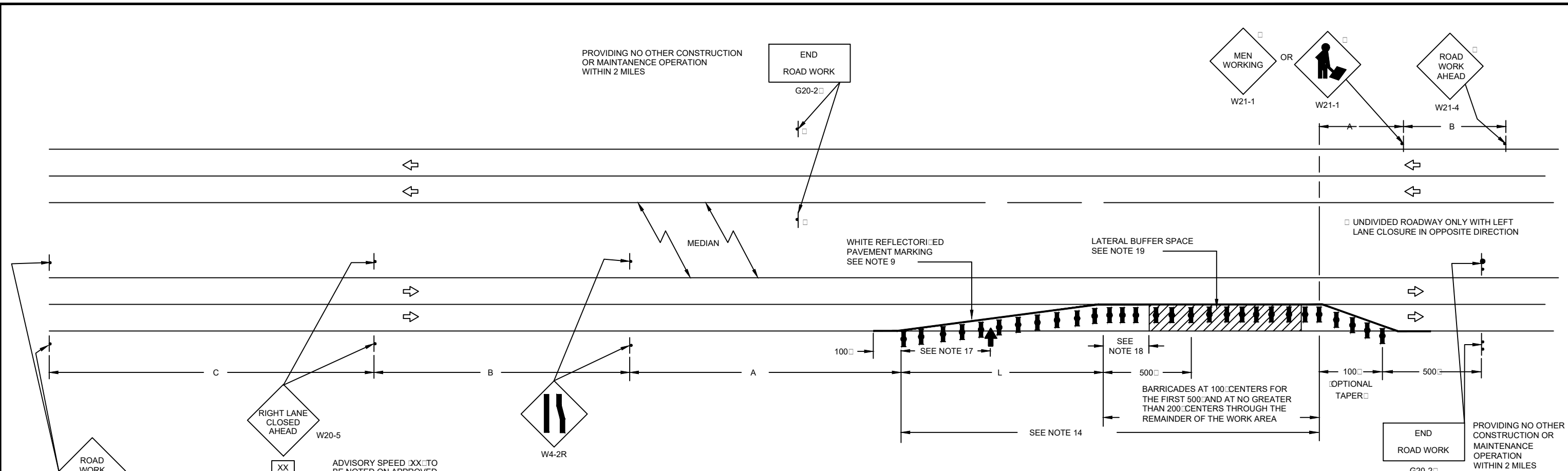
MULTILANE, DIVIDED OR UNDIVIDED, RURAL OR SUBURBAN, DAY OPERATIONS WHERE ACTIVITIES WILL ENCROACH ON LANE ABUTTING SHOULDER OR ON THE SHOULDER WITHIN 2 FT. OUTSIDE THE PAVEMENT EDGE

AGENCY APPROVED B C H L M N

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

DATE 1-9-97 DWG NO. 117

Effective 10/08/2020 to 12/09/2020



GENERAL NOTES

- SYMBOLS**
- WORK AREA
 - ARROW BOARD IN LINE OF LANE
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - TRAFFIC DIRECTION
 - BARRICADE OR DRUM WITH STEADY BURNING LIGHT

- 1. FORMULAS FOR TAPER LENGTH**
- SPEED FORMULA
- 40 M.P.H. OR UNDER $L = WS^2/10$
- 40 M.P.H. OR OVER $L = WS$
- WHERE
- L = TAPER LENGTH
 - W = WIDTH OF LANE OR OFFSET
 - S = POSTED SPEED, OR OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR ANTICIPATED OPERATING SPEED

SPEED MILES PER HOUR 85 TH PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELIZING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	5	25
30	150	165	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

2. WHEN EQUIPMENT ENTERS OR EXITS THE WORK AREA DIRECTLY FROM THE ADJOINING LANE CARRYING TRAFFIC, A FLAGGER WILL BE REQUIRED. IF THE FLAGGER IS PRESENT, THE FLAGGER SIGN SHALL BE PLACED AT DISTANCE "A" PRIOR TO THE FLAGGER AND "PREPARE TO STOP" SIGN INPS-1 SHALL BE PLACED AT DISTANCE "A" PRIOR TO THE FLAGGER SIGN. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED. A 100 FT. CONE TAPER SHALL BE PROVIDED PRIOR TO STATION TO PROTECT THE FLAGGER. FLAGGERS SHALL NOT BE REQUIRED FOR SPEEDS OF 25 MPH OR LESS.
3. THIS CASE ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE LEFT LANE. UNDER THESE CONDITIONS, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR RIGHT LANE CLOSED SIGNS. ON UNDIVIDED HIGHWAYS, SIGNS SHALL BE ADDED IN OPPOSITE DIRECTION AS SHOWN.
4. THIS CASE DOES NOT APPLY WHEN WORK IS BEING PERFORMED IN THE MIDDLE LANE(S) OF A SIX OR MORE LANE HIGHWAY. SPECIAL PLANS APPROVED BY THE TRAFFIC ENGINEER WILL BE REQUIRED.
5. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
6. STEADY BURNING LIGHTS SHALL NOT BE REQUIRED ON BARRICADES FOR DAY OPERATIONS.
7. ALL SIGNS SHALL BE GROUND-MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION 25 OF THE UNIFORM STANDARD SPECIFICATIONS.
8. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
9. FOR LONG TERM PROJECTS OF 72 CONTINUOUS HOURS OR MORE, A 1/2 IN. WIDE INTERIM WHITE EDGE LINE SHOULD BE INSTALLED FROM THE START OF THE TAPER TO A POINT BEYOND THE WORK AREA, REJOINING THE PERMANENT EDGE LINE. INTERIM EDGE LINE SHALL BE REMOVABLE, NON-FOIL PAVEMENT MARKING TAPE. FOR LEFT LANE CLOSURE, THE EDGE LINE SHALL BE YELLOW. PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE SHALL BE MASKED WITH APPROVED BLACKOUT TAPE OR OBLITERATED AS APPROVED BY THE TRAFFIC ENGINEER FROM THE END OF THE ENTRANCE TAPER TO A POINT LOCATED 1/2A FROM THE TAPER BEGINNING.

10. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER. THE LATERAL PLACEMENT OF THE FLAGGER, IF NECESSARY, MAY BE VARIED.
11. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE TRAFFIC ENGINEER.
12. ALL BARRICADE LIGHTS SHALL BE MONODIRECTIONAL IF THE ROADWAY IS UNDIVIDED.
13. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
14. ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.
15. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN LESS THAN 35 MPH	200	200	200
URBAN 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

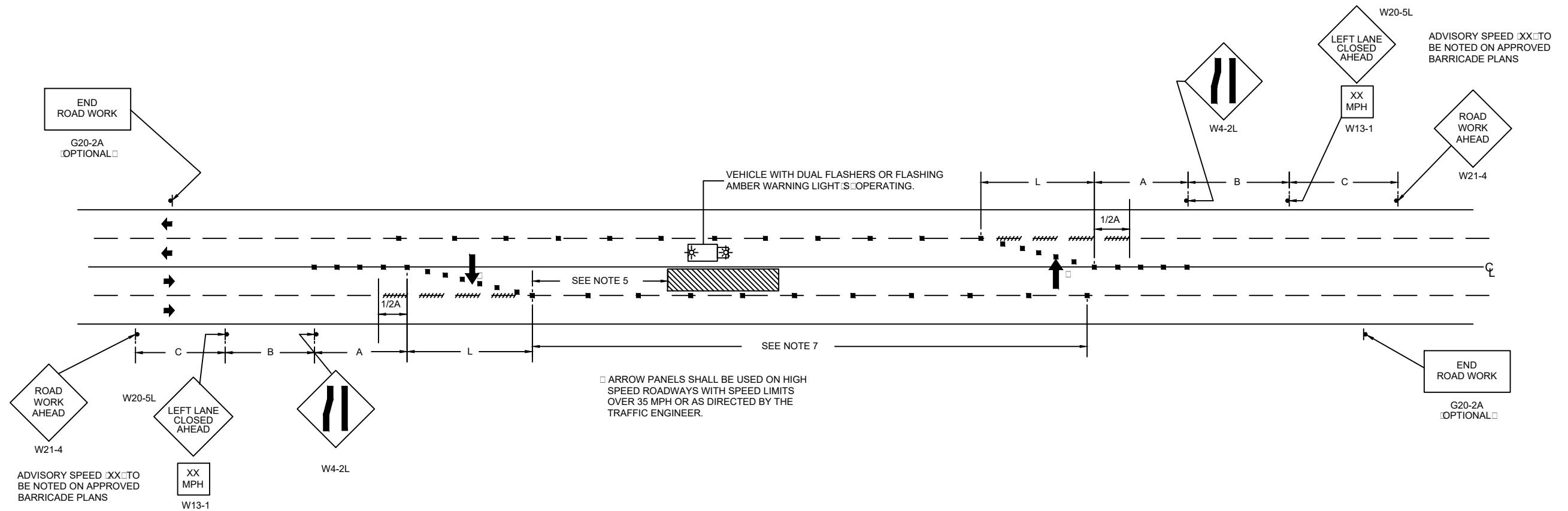
16. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.
- | | | | |
|--------------|----------|-----------------|---------|
| BOULDER CITY | 293-9200 | MESQUITE | 34-5295 |
| CLARK COUNTY | 455-1100 | NORTH LAS VEGAS | 42-2412 |
| HENDERSON | 515-2140 | | |
| LAS VEGAS | 229-1331 | | |

17. ARROWBOARD PANELS SHALL BE USED ON HIGH SPEED ROADWAYS WITH SPEED LIMITS OVER 35 MPH OR AS DIRECTED BY THE TRAFFIC ENGINEER. ARROWBOARD SHOULD BE PLACED AS CLOSE TO THE BEGINNING OF THE TAPER AS POSSIBLE, AS SOON AS THERE IS ADEQUATE SPACE.
18. BUFFER SPACE SHALL BE

SPEED M.P.H.	BUFFER SPACE - FT.
70	585
65	485
60	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

- POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.
19. A LATERAL BUFFER SPACE MAY BE REQUIRED TO SEPARATE WORK SPACE FROM TRAFFIC SPACE. THE WIDTH SHALL BE DETERMINED BY THE TRAFFIC ENGINEER.
 20. WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED, AS NEEDED.
 21. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE	SPECIFICATION REFERENCE	TYPICAL APPLICATION FOR MULTILANE, DIVIDED OR UNDIVIDED, RURAL OR SUBURBAN, DAY OR NIGHT OPERATIONS WHERE ACTIVITIES WILL ENCROACH ON LANE ABUTTING SHOULDER OR ON THE SHOULDER WITHIN 2 FT. OUTSIDE OF PAVEMENT EDGE	AGENCY APPROVED B C H L M N UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA DATE 1-9-97 DWG NO. 18
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GENERAL NOTES

1. TAPER FORMULA $L = S \times W$ FOR SPEEDS OF 45 MPH OR MORE
 $L = \frac{WS^2}{10}$ FOR SPEEDS OF 40 MPH OR LESS

WHERE: L = MINIMUM LENGTH OF TAPER
 S = POSTED SPEED, 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR ANTICIPATED OPERATING SPEED
 W = WIDTH OF OFFSET

SPEED MILES PER HOUR 85 PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	7	25
30	150	165	180	8	30
35	205	225	245	9	35
40	270	295	320	10	40
45	345	375	405	11	45
50	430	465	500	12	50
55	525	565	600	13	55
60	630	675	720	14	60
65	745	795	840	15	65
70	870	925	980	16	70

2. THE MAXIMUM SPACING BETWEEN CHANNELING DEVICES IN A TAPER SHALL BE AS SPECIFIED IN TABLE IN NOTE 1.
 3. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
 4. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 7103.01 OF THE UNIFORM STANDARD SPECIFICATIONS.

5. A BUFFER SPACE SHOULD BE REQUIRED AS FOLLOWS

BUFFER SPACE	
SPEED M.P.H.	BUFFER SPACE .FT.
70	585
65	485
60	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.

TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS .FT.		
	A	B	C
URBAN .LESS THAN 35 MPH	200	200	200
URBAN .35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1000	2000

7. ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.

8. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	5-5-2140		
LAS VEGAS	229-3311		

9. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

10. DURING HOURS OF DARKNESS, STEADY BURNING WARNING LIGHTS SHALL BE USED ON ALL CHANNELING DEVICES.

SYMBOLS

- ARROW PANEL
- FLASHING VEHICLE LIGHT
- PAVEMENT MARKINGS THAT SHOULD BE REMOVED FOR A LONG TERM PROJECT OF 72 CONTINUOUS HOURS OR MORE. PAINT NOT ALLOWED. MASK WITH APPROVED BLACK OUT TAPE OPTIONAL OR OBLITERATED AS APPROVED BY THE TRAFFIC ENGINEER. TEMPORARY MARKINGS TO BE PLACED AS NEEDED.
- BARRICADE, DRUM, VERTICAL PANEL OR CONE.
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TRAFFIC DIRECTION
- WORK AREA

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ONE

SPECIFICATION REFERENCE

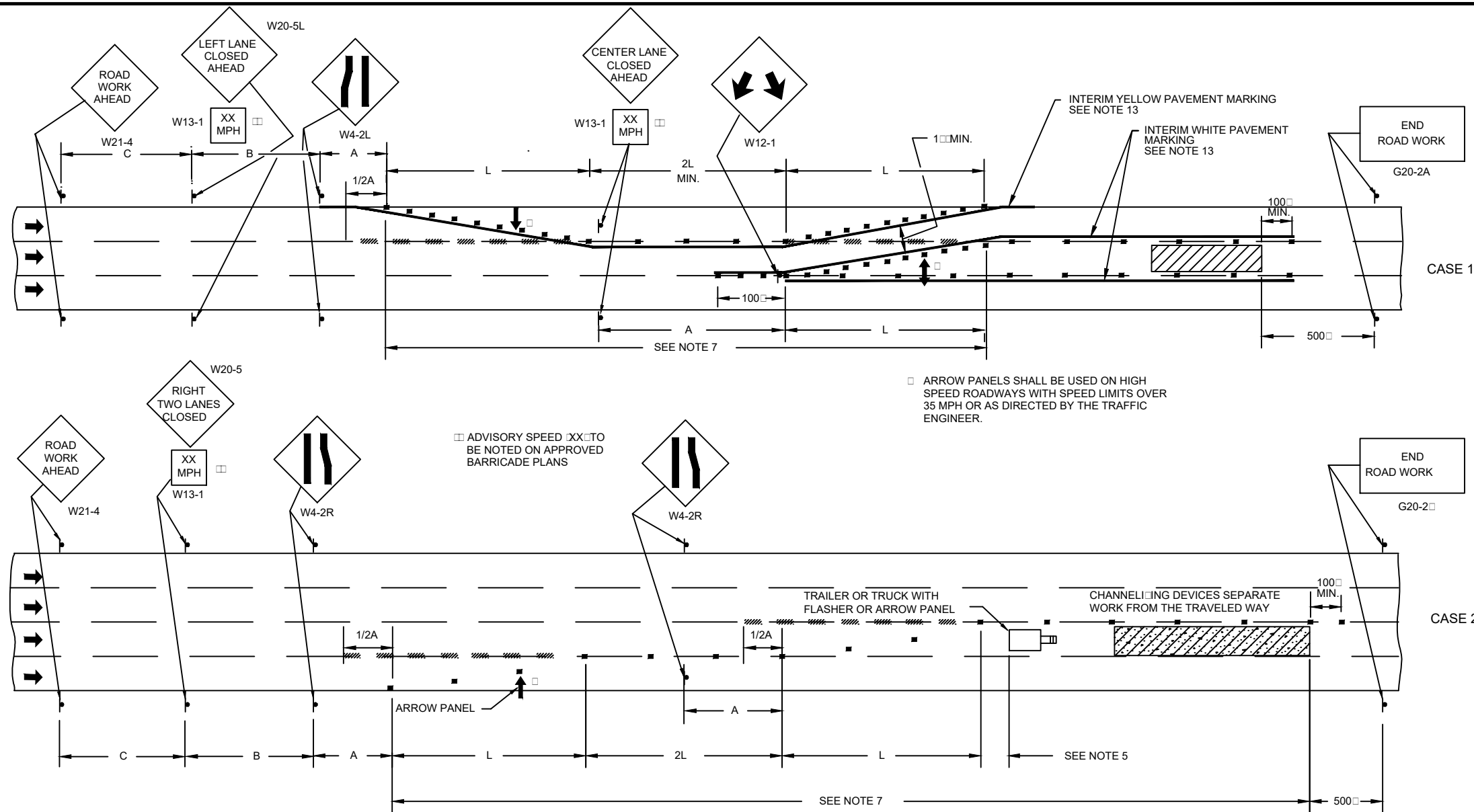
TYPICAL APPLICATION FOR

MULTILANE, UNDIVIDED, RURAL OR SUBURBAN, DAY OR NIGHT OPERATIONS WITH A WORK AREA IN THE LEFT LANE, ALLOWING WORK ACCESS FROM ADJACENT LANE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 19

Effective 10/08/2020 to 12/09/2020



SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- ARROW BOARD
- BARRICADE DRUM, VERTICAL PANEL OR CONE
- PAVEMENT MARKINGS THAT SHOULD BE REMOVED FOR A LONG TERM PROJECT OF 72 CONTINUOUS HOURS OR MORE. PAINT NOT ALLOWED. MASK WITH APPROVED BLACK OUT TAPE OPTIONAL OR OBLITERATED AS APPROVED BY THE TRAFFIC ENGINEER. TEMPORARY MARKINGS TO BE PLACED AS NEEDED.
- TRAFFIC DIRECTION

ARROW PANELS SHALL BE USED ON HIGH SPEED ROADWAYS WITH SPEED LIMITS OVER 35 MPH OR AS DIRECTED BY THE TRAFFIC ENGINEER.

ADVISORY SPEED XX MPH TO BE NOTED ON APPROVED BARRICADE PLANS

GENERAL NOTES

1. TAPER FORMULA $L = S \times X \times W$ FOR SPEEDS OF 45 MPH OR MORE
 $L = \frac{WS^2}{10}$ FOR SPEEDS OF 40 MPH OR LESS
 WHERE L = MINIMUM LENGTH OF TAPER
 S = POSTED SPEED, 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR ANTICIPATED OPERATING SPEED
 W = WIDTH OF OFFSET

SPEED MILES PER HOUR 85 TH PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELIZING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	5	25
30	150	155	160	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

3. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ZONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
4. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
5. A BUFFER SPACE SHOULD BE REQUIRED AS FOLLOWS

SPEED M.P.H.	BUFFER SPACE - FT.
70	585
65	485
60	415
55	335
50	280
45	220
40	170
35	120
30	85
25	55
20	35

POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED.

6. DURING HOURS OF DARKNESS, STEADY BURNING WARNING LIGHTS SHALL BE REQUIRED ON ALL CHANNELIZING DEVICES.
7. ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE. DEVICES SHALL NOT BE MIXED BY TYPE.
8. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

9. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.
- | | | | |
|--------------|----------|-----------------|---------|
| BOULDER CITY | 293-9200 | MESQUITE | 34-5295 |
| CLARK COUNTY | 455-1100 | NORTH LAS VEGAS | 42-2412 |
| HENDERSON | 55-2140 | | |
| LAS VEGAS | 229-331 | | |

10. FOR CASE 1, A BUFFER SPACE SHOULD BE USED AT THE UPSTREAM END OF THE CLOSED INTERIOR LANE. FOR LONG-TERM OPERATIONS OF 72 CONTINUOUS HOURS OR MORE, A BARRIER SHOULD BE USED TO PROTECT THE OPERATION IN THE CLOSED INTERIOR LANE.
11. WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERRECTED, AS NEEDED.
12. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.
13. INTERIM PAVEMENT MARKINGS SHALL BE REFLECTORIZED, REMOVABLE, NON-FOIL TAPE AND A MINIMUM OF 1/2 IN. WIDE AND SHOULD BE REQUIRED FOR OPERATIONS OF 72 CONTINUOUS HOURS OR MORE.

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ZONE

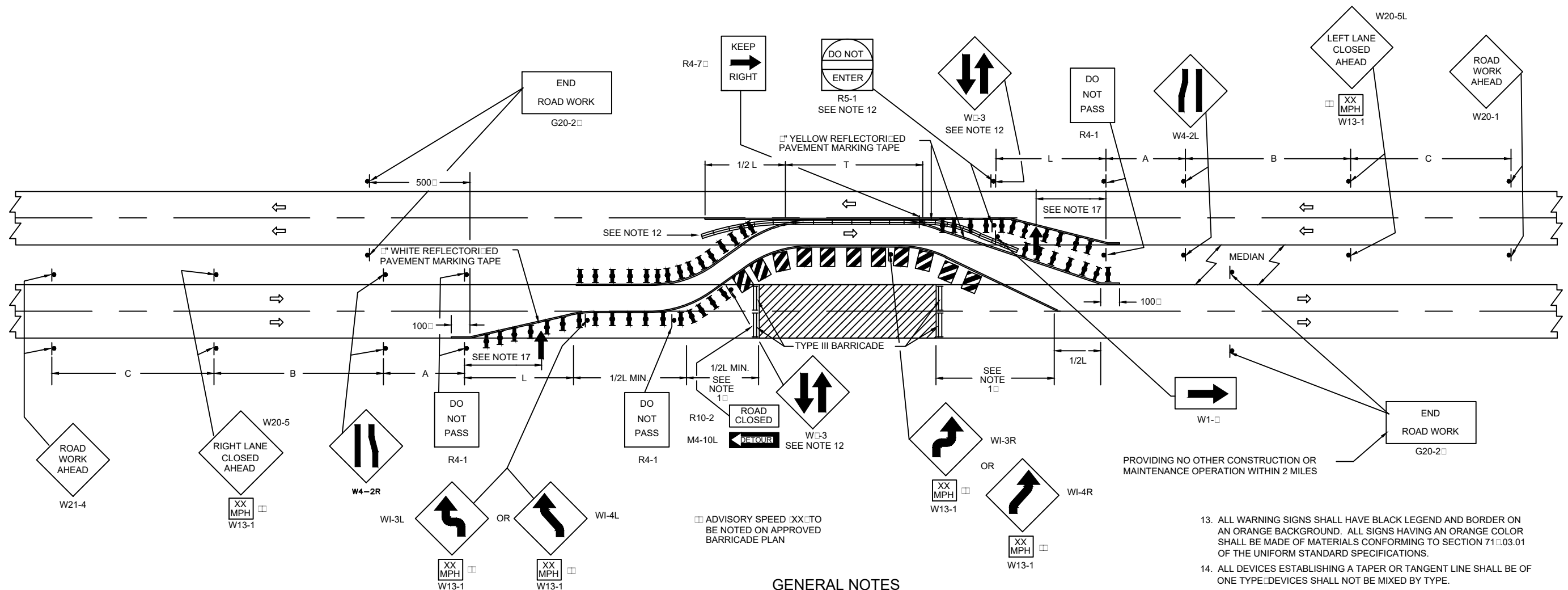
SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR
MULTILANE, ONE-WAY OR DIVIDED, RURAL OR SUBURBAN, DAY OR NIGHT
OPERATIONS WHERE CENTER LANES ARE CLOSED

AGENCY APPROVED B C H L M N

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 20



GENERAL NOTES

1. THE "L" DISTANCE EQUALS FORMULAS FOR TAPER LENGTH
 SPEED FORMULA
 40 M.P.H. OR UNDER $L = WS^2/10$
 40 M.P.H. OR OVER $L = WS$
 WHERE
 L = TAPER LENGTH
 W = WIDTH OF LANE OR OFFSET
 S = POSTED SPEED, 85TH PERCENTILE SPEED PRIOR TO WORK STARTING OR ANTICIPATED OPERATING SPEED
2. TWO WAY TRAFFIC SIGNS SHALL BE REPEATED EVERY ONE-QUARTER MILE IN EACH DIRECTION THROUGH THE TANGENT DISTANCE.
3. WHEN T IS GREATER THAN 500 FT., 4-FOOT LENGTHS OF DOUBLE YELLOW REFLECTORIZED, REMOVABLE, NON-FOIL PAVEMENT MARKING TAPE AT 40 FOOT CENTERS MAY BE USED.
4. A CURVE SIGN SHALL BE REQUIRED AT THE EXIT END OF THE BYPASS IF T IS EQUAL TO OR GREATER THAN 1,000 FEET.
5. ON PAVED CROSSOVERS, REFLECTIVE EDGE LINES AND A CENTERLINE SHALL BE USED WHEN THE CLOSURE TIME IS 72 CONTINUOUS HOURS OR MORE OR WHEN THE NORMAL POSTED SPEED OUTSIDE THE AREA OF OPERATIONS EXCEEDS 50 M.P.H. REFLECTORIZED, REMOVABLE, NON-FOIL PAVEMENT MARKING TAPE SHALL BE USED FOR MARKING THE EDGE LINES AND CENTER LINE ON THE EXISTING PAVEMENT. REFLECTORIZED PAVEMENT MARKING PAINT MAY BE USED FOR MARKINGS ON PAVED CROSSOVERS. RAISED REFLECTIVE PAVEMENT MARKERS CONFORMING TO UNIFORM STANDARD SPECS. DRAWINGS MAY BE USED IN LIEU OF TAPE OR PAINT WHERE THE PAVEMENT MARKING IS TO BE PLACED ADJACENT TO BARRICADES OR VERTICAL PANELS. ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE REVISED TRAFFIC PATTERN SHALL BE REMOVED. IF STRIPING IS TO BE PLACED ON FINAL PAVEMENT ONLY REMOVABLE, NON-FOIL TAPE SHALL BE USED.
6. CONES MAY BE SUBSTITUTED FOR BARRICADES AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN. IN HEIGHT.
7. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES FOR DAY OPERATIONS.
8. ALL SIGNS SHALL BE GROUND-MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS AND AS REQUIRED BY SECTION 25 OF THE UNIFORM STANDARD SPECIFICATIONS.
9. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.
10. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS BY THE TRAFFIC ENGINEER.
11. ALL BARRICADE LIGHTS SHALL BE MONODIRECTIONAL.
12. PORTABLE CONCRETE BARRIER RAIL SHOULD BE REQUIRED FOR LONG-TERM PROJECTS OF 72 CONTINUOUS HOURS OR MORE, SHALL CONFORM WITH STANDARD DRAWING NO. 02, AND BE USED WHEN CALLED UPON THEREIN. WHEN PORTABLE CONCRETE BARRIER RAIL IS REQUIRED, THE W-3 OR R5-1 SIGNS MAY BE OMITTED THROUGH THE TANGENT DISTANCE T.

13. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
14. ALL DEVICES ESTABLISHING A TAPER OR TANGENT LINE SHALL BE OF ONE TYPE DEVICES SHALL NOT BE MIXED BY TYPE.
15. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

16. ENGINEERED GEOMETRIC DESIGN TO BE PROVIDED BY ENGINEER.
17. ARROW BOARD SHOULD BE PLACED AS CLOSE TO THE BEGINNING OF THE TAPER AS POSSIBLE, AS SOON AS THERE IS ADEQUATE SPACE.
18. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-11 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.
 BOULDER CITY 293-9200 LAS VEGAS 229-331
 CLARK COUNTY 455-100 MESQUITE 34-5295
 HENDERSON 525-2140 NORTH LAS VEGAS 42-242
19. WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERCTED, AS NEEDED.
20. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- BARRICADE OR DRUM WITH STEADY BURNING LIGHT
- VERTICAL PANEL
- PORTABLE CONCRETE BARRIER RAIL
- TRAFFIC DIRECTION

SPEED MILES PER HOUR 85 PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELLING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	7	25
30	150	155	160	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE

SPECIFICATION REFERENCE

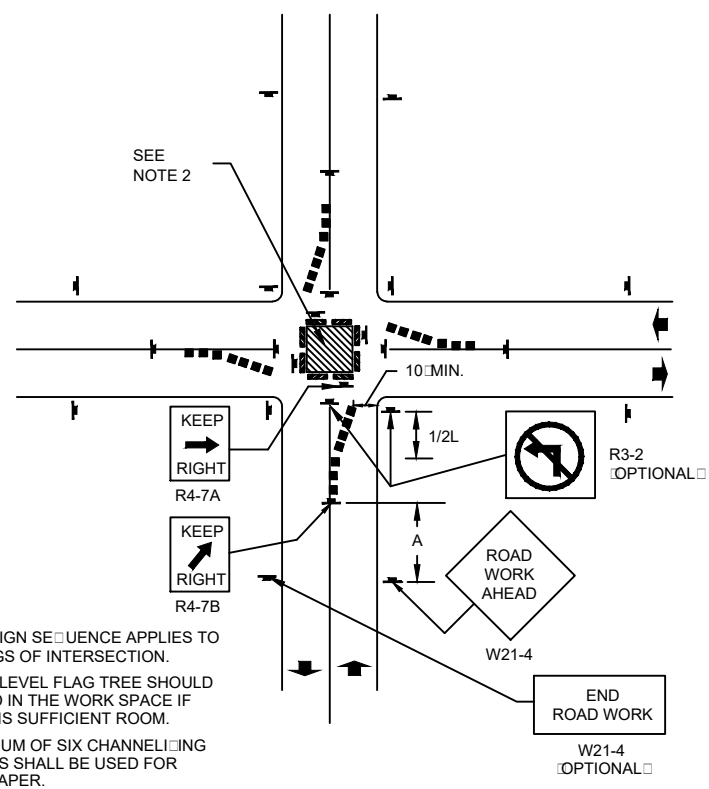
TYPICAL APPLICATION FOR

MULTILANE, DIVIDED, RURAL OR SUBURBAN, DAY OR NIGHT OPERATIONS WHERE ACTIVITIES REQUIRE CLOSING TWO ADJACENT LANES AN OPPOSING LANE IS USED FOR A TEMPORARY CROSSOVER

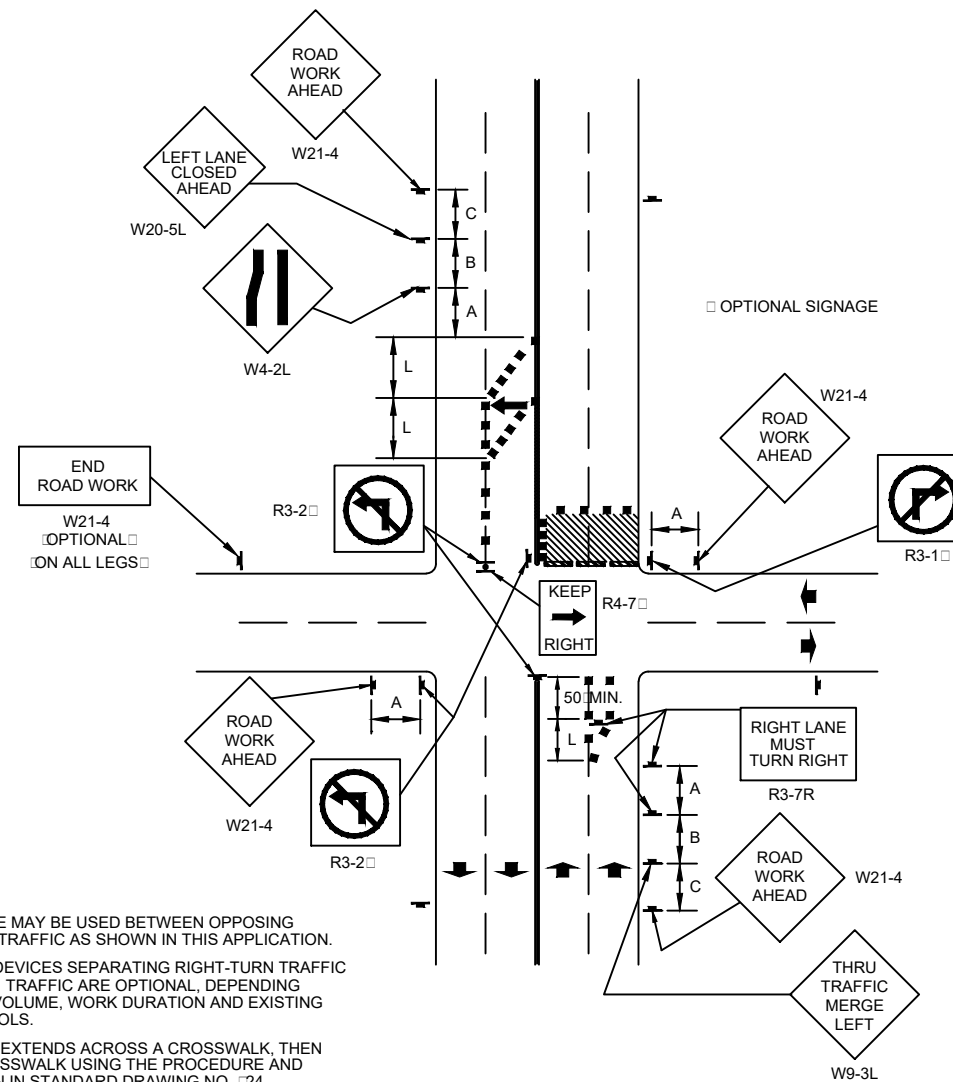
AGENCY APPROVED B C H L M N

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

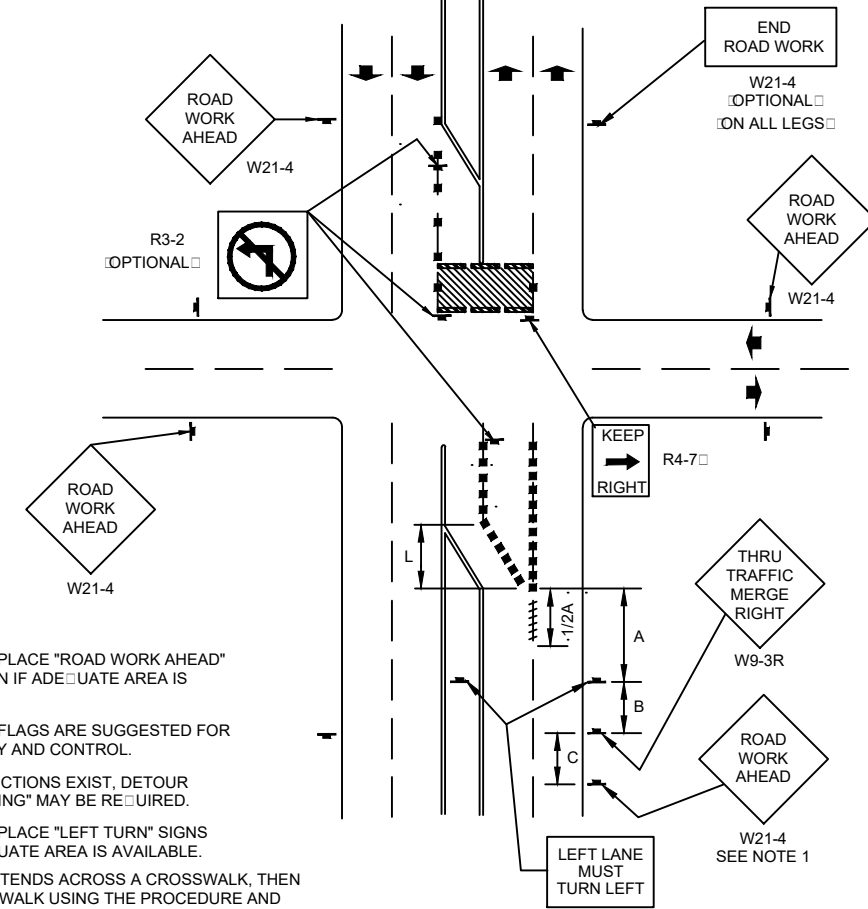
DATE 1-9-97 DWG NO. 21



A. WORK AREA IS IN THE CENTER OF AN INTERSECTION



B. WORK AREA NEAR AN INTERSECTION, ALLOWING RIGHT TURNS.



C. WORK AREA NEAR AN INTERSECTION, PROVIDING ACCESS TO LEFT-TURN LANE.

GENERAL NOTES

1. FORMULAS FOR TAPER LENGTH

SPEED	FORMULA
40 M.P.H. OR UNDER	$L = WS^2/100$
40 M.P.H. OR OVER	$L = WS$

WHERE:
 L = TAPER LENGTH
 W = WIDTH OF LANE OR OFFSET
 S = POSTED SPEED, 85TH PERCENTILE SPEED PRIOR TO STARTING WORK OR ANTICIPATED OPERATING SPEED

TAPER LENGTHS FOR LANE CLOSURES - DISTANCE L					
SPEED MILES PER HOUR 85 TH PERCENTILE	TAPER LENGTH LANE WIDTH IN FEET			NUMBER OF CHANNELIZING DEVICES FOR TAPER	MAX. SPACING OF DEVICES ALONG TAPER IN FEET
	10	11	12		
20	70	75	80	5	20
25	105	115	125	7	25
30	150	175	180	7	30
35	205	225	245	8	35
40	270	295	320	9	40
45	450	495	540	13	45
50	500	550	600	13	50
55	550	605	660	13	55
60	600	660	720	13	60
65	650	715	780	13	65
70	700	770	840	13	70

2. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY
3. PROHIBIT TURNS AS REQUIRED BY TRAFFIC CONDITIONS

4. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
URBAN (LESS THAN 35 MPH)	200	200	200
URBAN (35 MPH OR GREATER)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

5. ALL DEVICES ESTABLISHING A TAPER OF TANGENT LINE SHALL BE OF ONE TYPE, DEVICES SHALL NOT BE MIXED BY TYPE.

IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	LAS VEGAS	229-3311
CLARK COUNTY	455-1100	MESQUITE	342-5295
HENDERSON	565-2140	NORTH LAS VEGAS	742-2412
7. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS.

8. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

SYMBOLS

- CHANNELIZING DEVICES
- PAVEMENT MARKINGS THAT SHOULD BE REMOVED FOR A LONG TERM PROJECT OF 72 CONTINUOUS HOURS OR MORE. PAINT NOT ALLOWED. MASK WITH APPROVED BLACK OUT TAPE OPTIONAL OR OBLITERATED AS APPROVED BY THE TRAFFIC ENGINEER. TEMPORARY MARKINGS TO BE PLACED AS NEEDED.
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- WORK AREA

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ONE

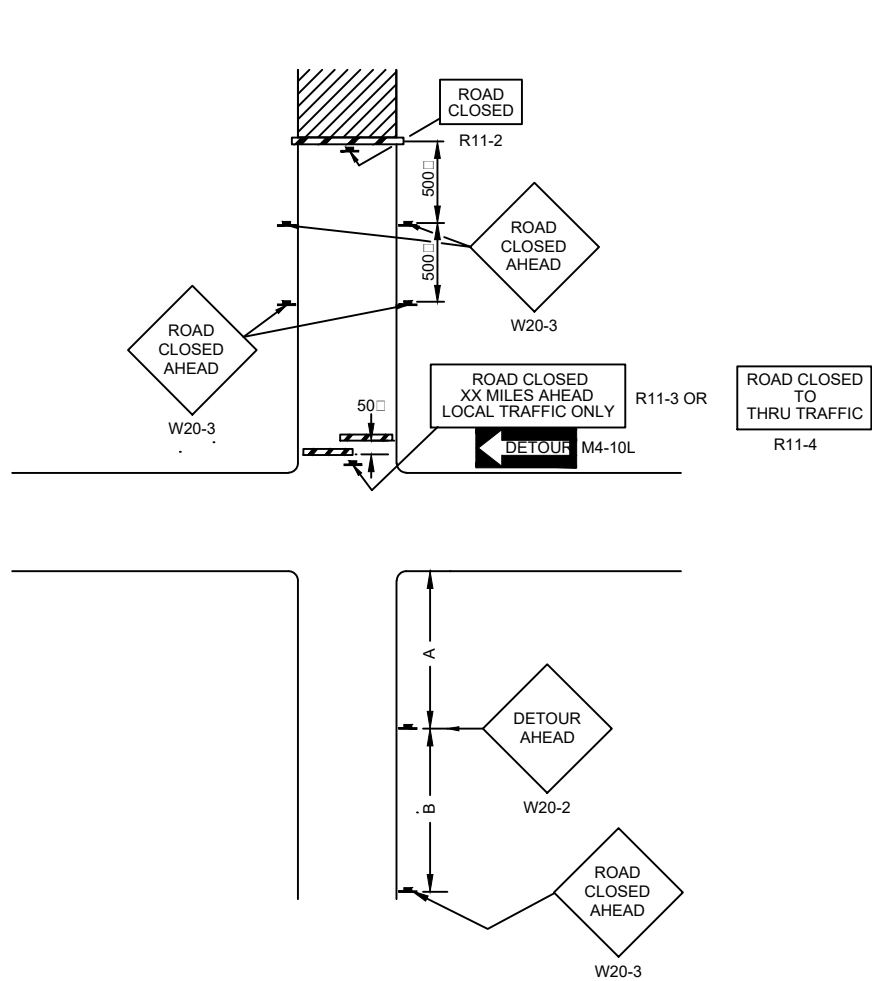
SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR

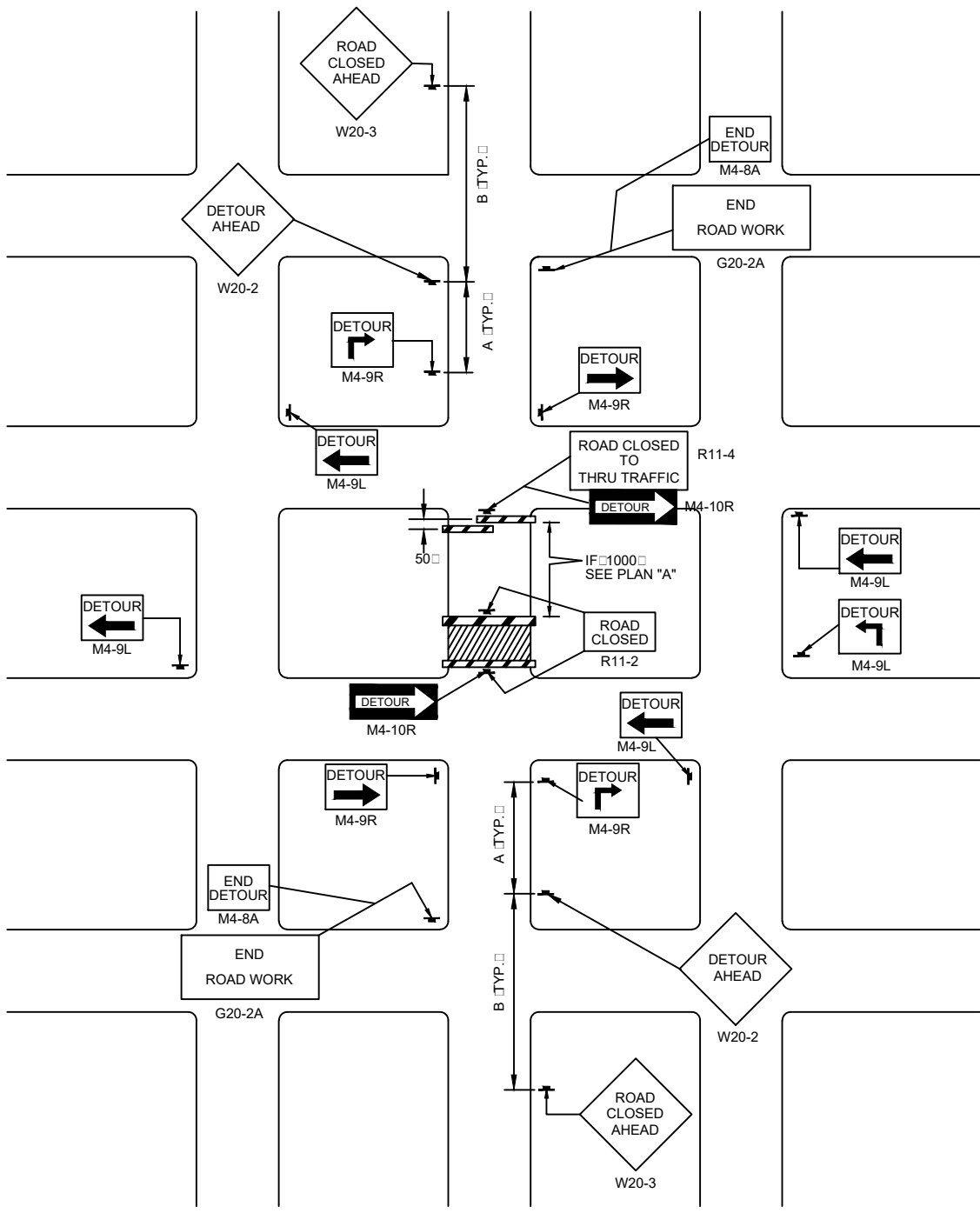
WORK AREAS WITHIN OR NEAR SUBURBAN INTERSECTIONS

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 22



A. TYPICAL APPLICATION-ROADWAY CLOSED BEYOND DETOUR POINT.



B. TYPICAL APPLICATION-DETOUR SIGNING FOR ROAD CONSTRUCTION PROJECT IN A STREET GRID.

GENERAL NOTES

1. ANY ROAD CLOSURE MUST BE EXPRESSLY PERMITTED IN WRITING BY THE ADMINISTERING ENTITY'S TRAFFIC MANAGEMENT DIVISION MANAGER OR THE DIRECTOR OF ITS PUBLIC WORKS DEPARTMENT.
2. ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL SIGNS HAVING AN ORANGE COLOR SHALL BE MADE OF MATERIALS CONFORMING TO SECTION 71.03.01 OF THE UNIFORM STANDARD SPECIFICATIONS.
3. REGULATORY TRAFFIC CONTROL DEVICES TO BE MODIFIED AS NEEDED FOR THE DURATION OF THE DETOUR.
4. WARNING LIGHTS MAY BE USED TO MARK BARRICADES AT NIGHT AS NEEDED.
5. STREET NAMES MAY BE USED WHEN DESIRABLE FOR DIRECTING DETOURED TRAFFIC. LETTERS USED FOR STREET NAMES SHALL A MINIMUM OF 1" IN HEIGHT.
 - IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-1100	NORTH LAS VEGAS	42-2412
HENDERSON	5-5-2140		
LAS VEGAS	229-1331		
7. TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MAY BE INSTALLED ABOVE EACH WORK ZONE CONSTRUCTION SIGN FOR USE DURING HOURS OF DARKNESS.

SYMBOLS

- WORK AREA
- TYPE III BARRICADES, PLACED END-TO-END FOR WIDTH OF ROADWAY DEPICTED.
- SIGN ON PORTABLE OR PERMANENT SUPPORT

8. M4-9 DETOUR SIGNS MAY BE LOCATED ON THE FAR SIDE OF THE INTERSECTIONS.

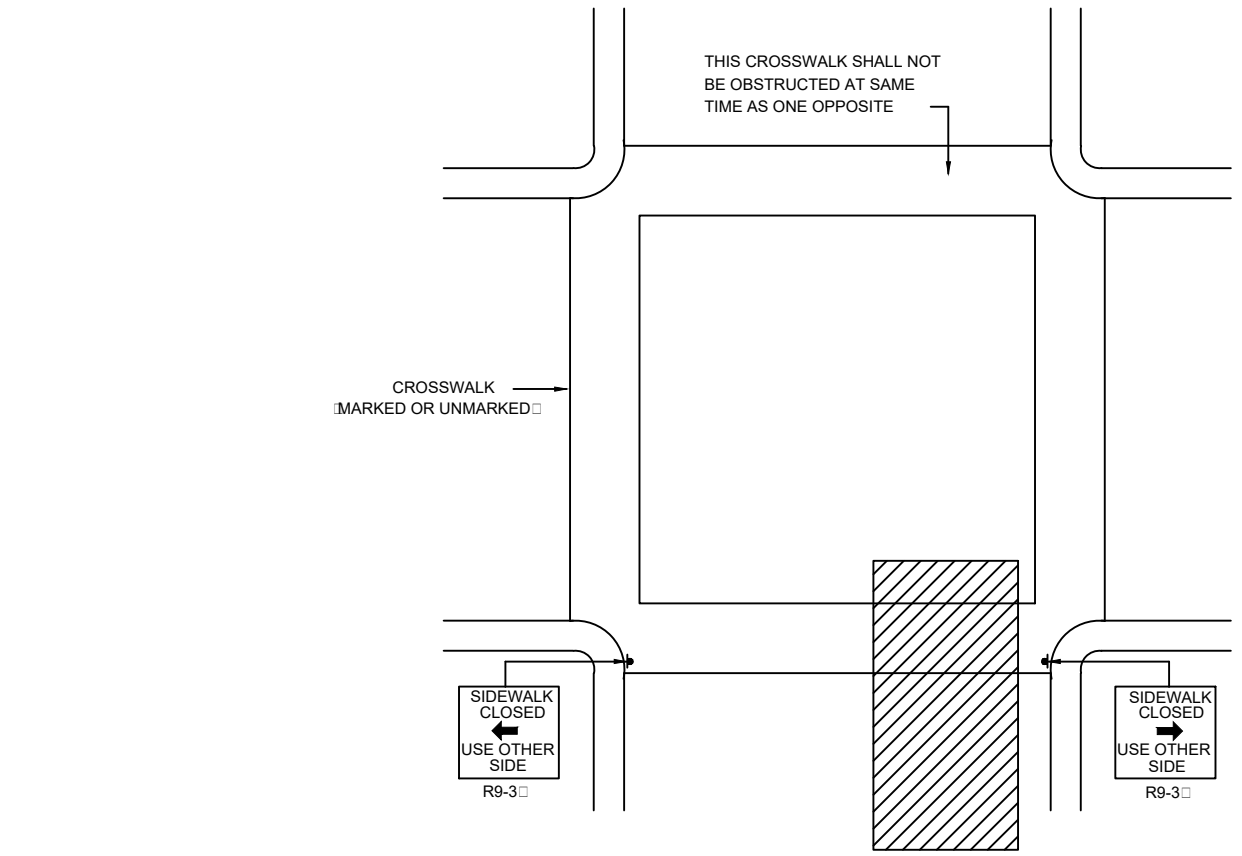
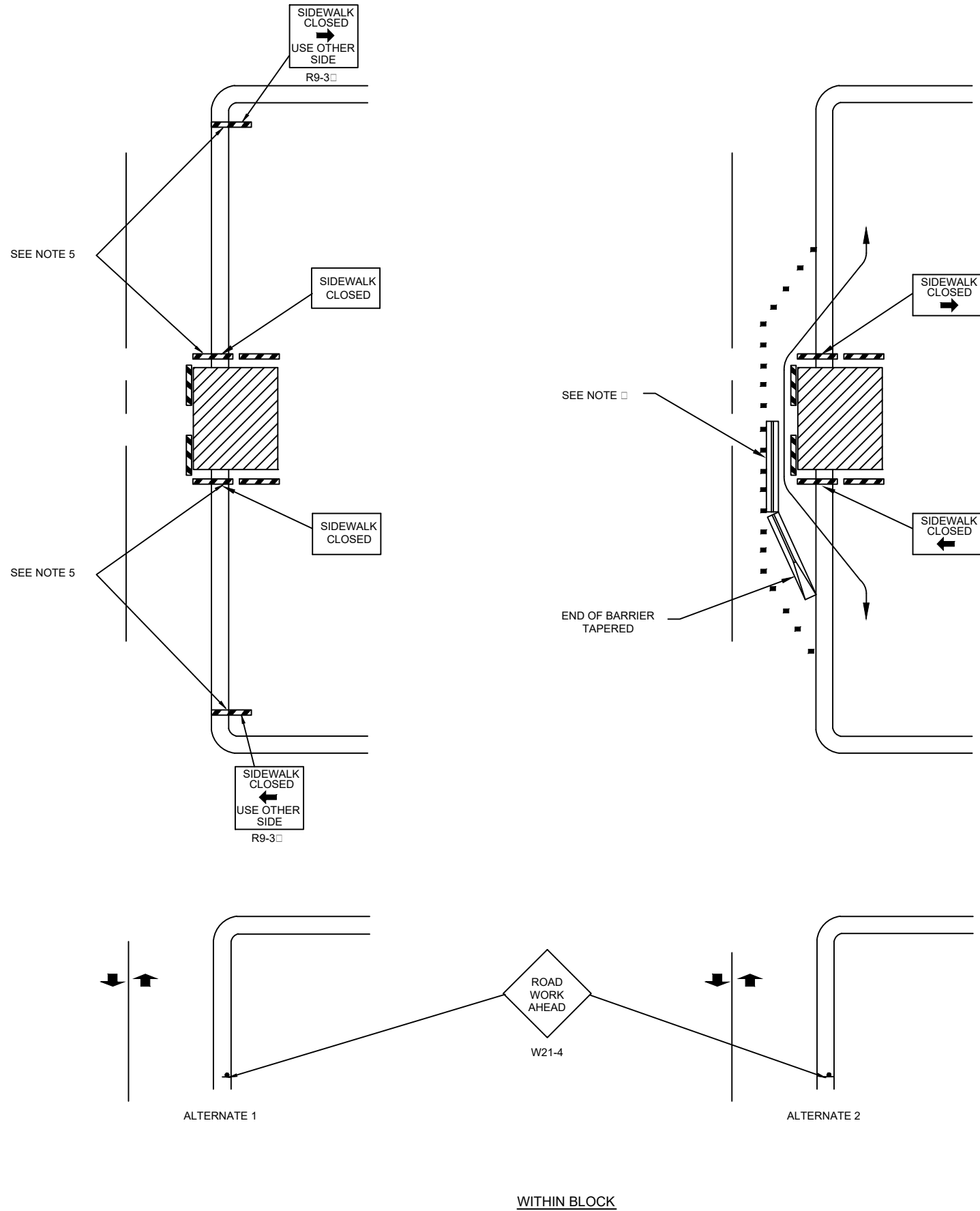
9. TABLE FOR SPACING OF ADVANCE WARNING SIGNS

ROAD TYPE	DISTANCE BETWEEN SIGNS - FT.		
	A	B	C
URBAN - LESS THAN 35 MPH	200	200	200
URBAN - 35 MPH OR GREATER	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1:00	2:00

10. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ZONE	SPECIFICATION REFERENCE	TYPICAL APPLICATION FOR TWO-LANE, TWO-WAY, RURAL OR SUBURBAN, DAY OR NIGHT ROAD CLOSURE	AGENCY APPROVED B C H L M N
			UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
			DATE 1-9-97 DWG NO. 23

Effective 10/08/2020 to 12/09/2020



- SYMBOLS**
- CHANNELLING DEVICES
 - ▩ BARRICADES
 - ▨ WORK AREA
 - ▬ CONCRETE BARRIER RAIL
 - ↕ ↗ TRAFFIC DIRECTION

- GENERAL NOTES**
1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
 2. CONTROLS FOR PEDESTRIANS ONLY ARE SHOWN. VEHICULAR TRAFFIC CONTROLS SHALL COMPLY WITH APPROPRIATE STANDARD DRAWINGS.
 3. STREET LIGHTING SHOULD BE CONSIDERED.
 4. WARNING LIGHTS MAY BE USED ON BARRIER RAILS.
 5. IF THERE EXIST ANY SOURCE OF PEDESTRIAN MOVEMENTS IN THIS AREA, SUCH THAT THE PEDESTRIAN APPROACHING THE WORK AREA COULD NOT SEE THE R9-3C SIGN, THEN ALTERNATES MUST BE USED TO INSURE THAT THIS IS VISIBLE.
 6. CONCRETE BARRIER RAIL SHALL CONFORM TO STANDARD DRAWING NO. 02. WHEN PEDESTRIAN ROUTE IS DIVERTED TO TRAVEL LANE TO AVOID WORK AREA AND/OR HIGH SPEEDS ARE ANTICIPATED, BARRIER RAIL SHALL BE USED TO SEPARATE TEMPORARY WALKWAY FROM TRAFFIC.

7. IF WORKING AT OR NEAR A TRAFFIC SIGNAL, CONTACT LVACTS AT 229-1111 AND LOCAL ENTITY AT APPROPRIATE NUMBERS LISTED BELOW AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK.

BOULDER CITY	293-9200	MESQUITE	34-5295
CLARK COUNTY	455-100	NORTH LAS VEGAS	42-242
HENDERSON	5-2140		
LAS VEGAS	229-331		
8. PEDESTRIANS SHOULD BE DIVERTED TO A SAFE AREA. DIVERSIONS SHALL BE AN ACCESSIBLE ROUTE AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT (ADA).
9. FOR NIGHT-TIME CLOSURES, TYPE A FLASHING LIGHTS MAY BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING WALKWAYS. TYPE C STEADY-BURN LIGHTS SHALL BE USED ON CHANNELLING DEVICES SEPARATING THE TEMPORARY WALKWAY FROM VEHICULAR TRAFFIC.
10. ACCESS FOR CAT TRANSIT SERVICE, PEDESTRIANS AND BICYCLES SHALL BE MAINTAINED THROUGHOUT DURATION OF CONSTRUCTION. IF RE-ROUTING OF ACCESS IS NECESSARY, THE CONTRACTOR SHALL PROVIDE THE ENTITY'S TRAFFIC ENGINEER WITH A MAP SHOWING THE PROPOSED RE-ROUTES FOR APPROVAL. IF CONSTRUCTION OPERATIONS AFFECT CAT BUS STOPS OR FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRANSPORTATION COMMISSION AT 455-4481 AT LEAST 3 NORMAL WORKING DAYS PRIOR TO BEGINNING SUCH OPERATIONS.

AGENCY APPROVED B C H L M N

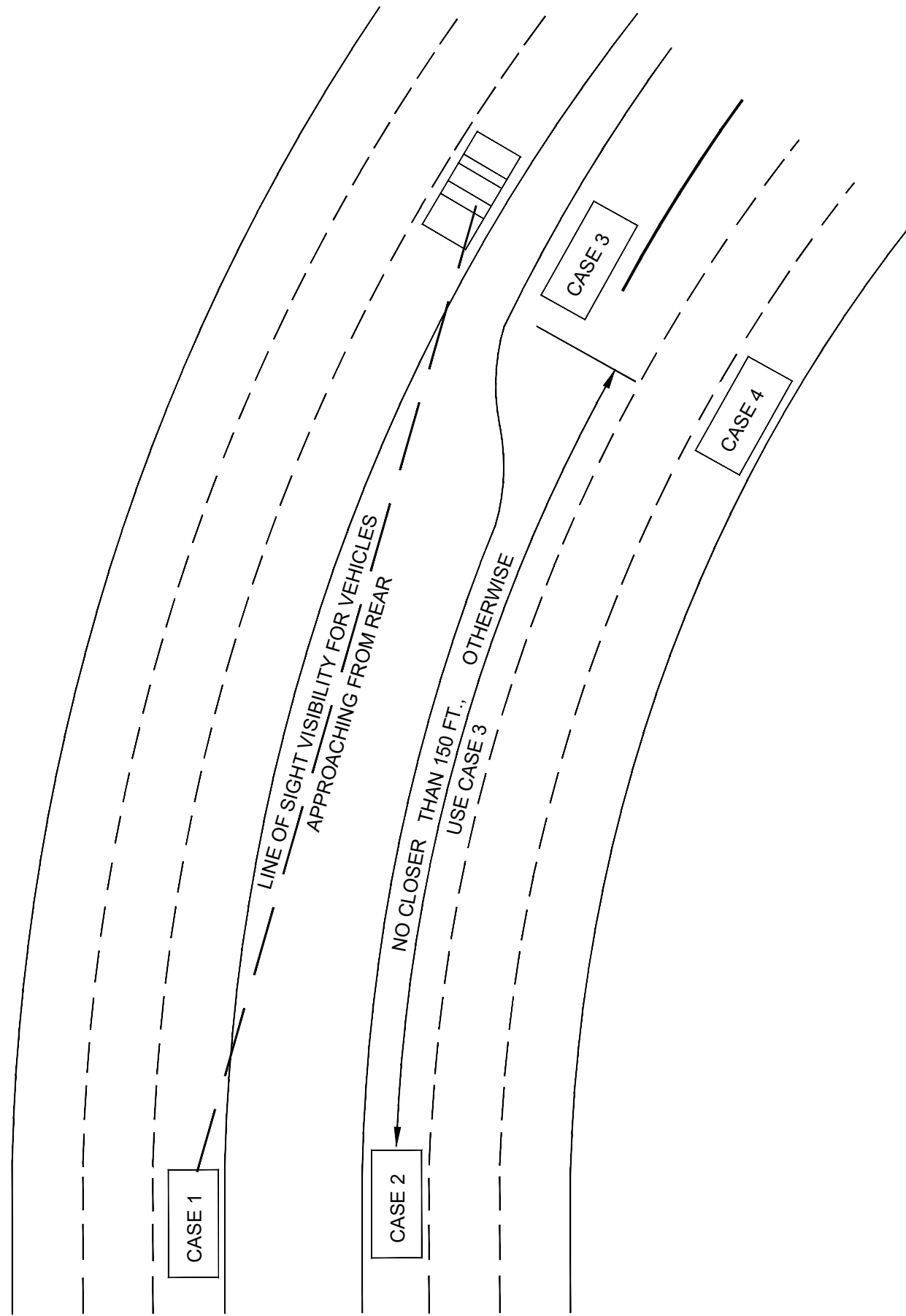
TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE	SPECIFICATION REFERENCE	

TYPICAL APPLICATION FOR CONTROLLING PEDESTRIAN TRAFFIC

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
DATE 1-9-97	DWG NO. 24

Effective 10/08/2020 to 12/09/2020

STANDARD PROCEDURE CONDITIONS WHICH, WHEN MET, ELIMINATE THE NEED FOR INDIVIDUAL TRAFFIC CONTROL PLAN AND/OR PERMIT



DEVICE OR PARAMETER	SITUATION/CASE <input type="checkbox"/>			
	1	2	3	4
A. MINIMUM <input type="checkbox"/> 0 IN. WIDE FLASHER BAR ATOP VEHICLE, WITH GREATER THAN 4 LIGHT ELEMENTS VISIBLE TO APPROACHING TRAFFIC	✓	✓	✓	✓
B. CONES SET OUT BEHIND VEHICLE	3, ACROSS BLOCKED LANE	3, ACROSS BLOCKED LANE	5, ACROSS BLOCKED LANE	NONE
C. TURN ON VEHICLE'S EMERGENCY HAZARD FLASHERS	✓	✓	✓	NOT REQUIRED
D. ALL PERSONNEL WEAR ORANGE VESTS OR SHIRTS WHEN OUTSIDE OF VEHICLE	ALWAYS	ALWAYS	ALWAYS	ALWAYS
E. O.K. FOR NIGHTTIME DEPLOYMENT <input type="checkbox"/>	NO	ONLY WHEN SPEED LIMIT <input type="checkbox"/> 35 MPH	O.K., BUT USE REFLECTIVE VESTS	O.K., BUT USE REFLECTIVE VESTS
F. WATER-FILLED CRASH CUSHION, OR EQUIVALENT <input type="checkbox"/> TRUNK OR TRAILER-MOUNTED IMPACT ATTENUATORS	RECOMMENDED, BUT MANDATORY WHEN SPEED LIMIT EXCEEDS 45 MPH		NO	NO
G. NO STOPPING UNLESS STOPPED VEHICLE IS VISIBLE TO APPROACHING TRAFFIC GREATER THAN 10 SECONDS AT SPEED LIMIT	YES, APPLY THIS RULE	N/A - ON STRAIGHT-AWAY	NOT REQUIRED	DESIRED, BUT NOT REQUIRED
H. O.K. TO SET UP DURING PEAK TRAVEL HOURS <input type="checkbox"/> 7-9 AM, 4- <input type="checkbox"/> PM	YES, BUT ONLY FOR EMERGENCY-TYPE REPAIR ACTIVITIES		O.K.	NOT RECOMMENDED

NOTE TYPICAL APPLICATION IS FOR LANDSCAPE OR UTILITY ACTIVITIES.

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN FOR HIGHWAY WORK ONE

SPECIFICATION REFERENCE

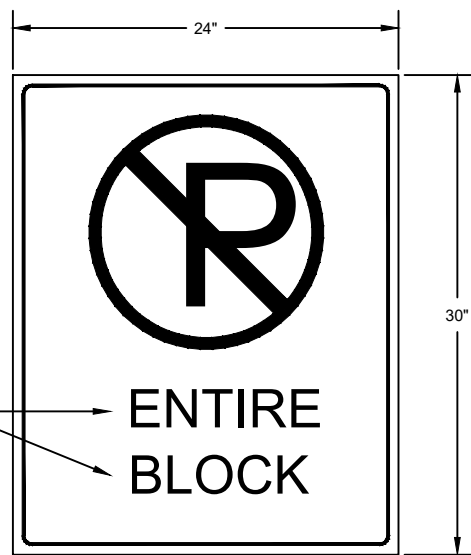
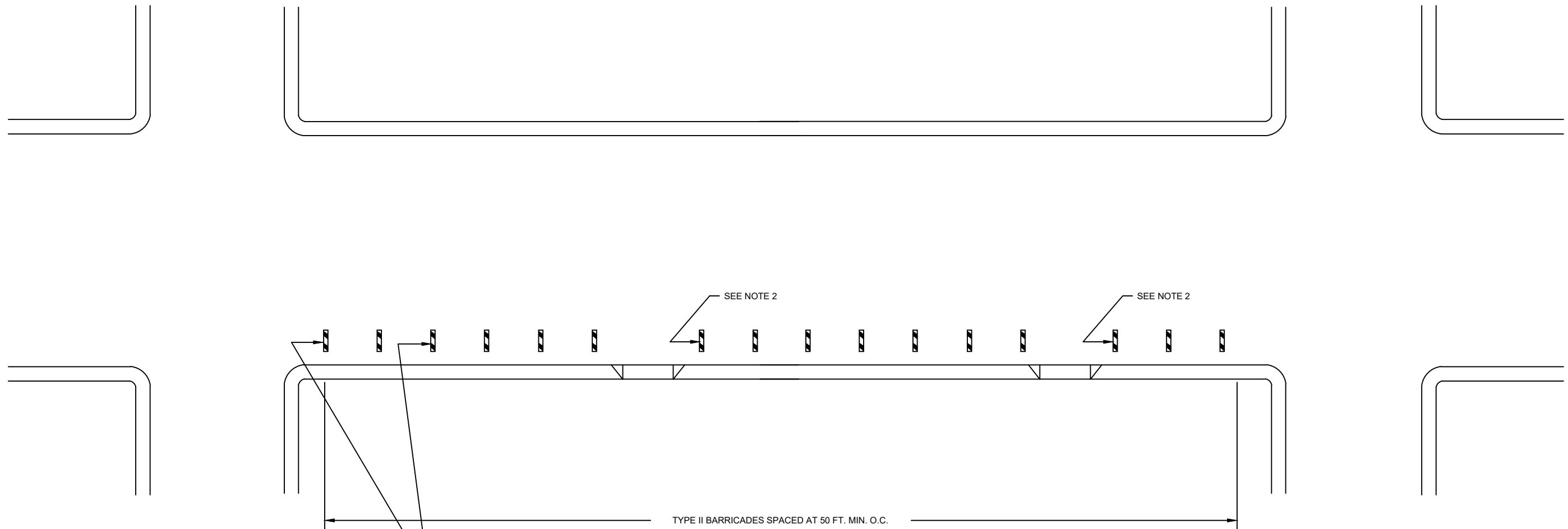
TYPICAL APPLICATION FOR

SLOW MOVING OR SHORT DURATION STOPPING IN A MARKED TRAVEL LANE ON NON-LOCAL STREETS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

DATE 1-9-97 DWG NO. 25

Effective 10/08/2020 to 12/09/2020



"NO PARKING" SIGN DETAIL

GENERAL NOTES □

1. SPECIAL "NO PARKING" SIGN SHALL BE PLACED ON FIRST BARRICADE AND ON EVERY OTHER BARRICADE THEREAFTER.
2. BARRICADES SHALL NOT BLOCK DRIVEWAYS OR ACCESSES PRIOR TO MAINTENANCE OPERATION. SPECIAL "NO PARKING" SIGN SHALL BE PLACED ON FIRST BARRICADE FOLLOWING SPACE PROVIDED FOR ACCESS.
3. BARRICADES MAY BE PLACED ON PAVEMENT OR ON SIDEWALK AT THE DISCRETION OF THE ENGINEER. "NO PARKING" SIGNS PLACED ON SIDEWALK SHALL NOT BE SET AT AN ANGLE NO GREATER THAN 30 DEGREES WITH THE LINE OF TRAFFIC FLOW TO BE VISIBLE TO APPROACHING TRAFFIC. A MINIMUM OF 3' CLEAR SPACE ON SIDEWALK SHALL BE MAINTAINED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT WHEN BARRICADES ARE PLACED ON SIDEWALKS.
4. "NO PARKING" SIGNS AND BARRICADES SHOULD BE PLACED IN AREA OF REHABILITATION AT LEAST 72 HOURS IN ADVANCE OF WORK BEGINNING. NOTIFICATION OF PERSONS AFFECTED BY STREET WORK SHALL BE PERFORMED AS REQUIRED BY RESPECTIVE ENTITY AND NEVADA REVISED STATUTES.
5. ALL BARRICADES AND "NO PARKING" SIGNS SHALL BE REMOVED AS SOON AS IMPROVED SURFACE IS READY FOR TRAFFIC AS DETERMINED BY THE ENGINEER.

SYMBOLS □

BARRICADE

AGENCY APPROVED | B | C | H | L | M | N

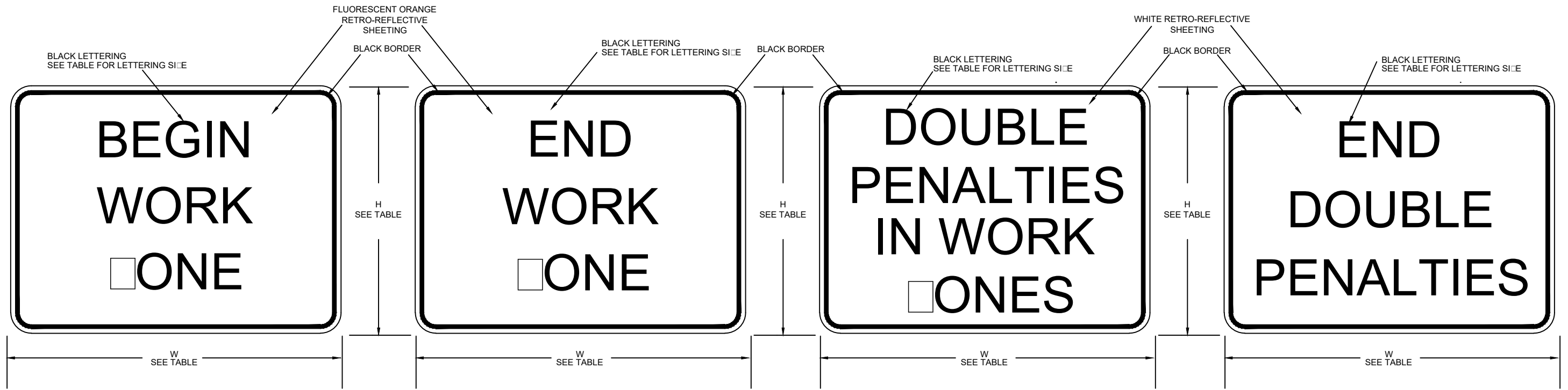
TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK □ ONE

SPECIFICATION REFERENCE

TYPICAL APPLICATION FOR
PLACEMENT OF "NO PARKING" SIGNS FOR SHORT-TERM
STREET REHABILITATION PROJECTS

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 1-9-97 | DWG NO. □ □ □ OF 1 □



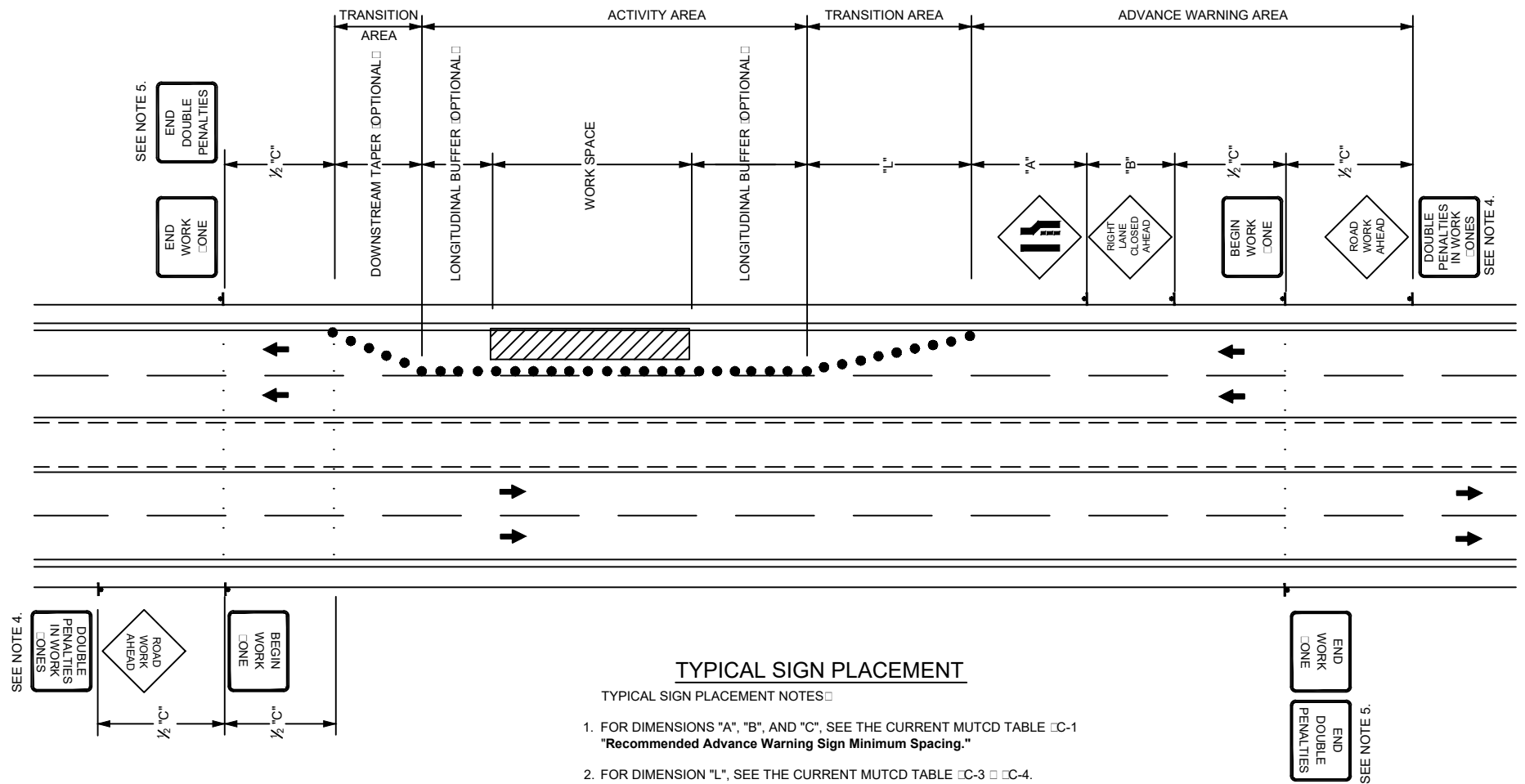
GENERAL NOTES

1. RETRO-REFLECTIVE SIGN SHEETING SHALL CONFORM TO SECTION 71, LATEST REVISION, OF THE UNIFORM STANDARD SPECIFICATIONS.
 2. SIGN LEGENDS AND BORDERS SHALL COMPLY WITH THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
 3. SIGNS SHALL BE MOUNTED IN CONFORMANCE WITH PART 1, MUTCD, LATEST EDITION.
 4. THE "DOUBLE PENALTIES IN WORK ONES" SIGN SHOULD BE MOUNTED WITH THE FIRST SIGN IN THE ADVANCE WARNING SIGN SERIES, TYPICALLY THE "ROAD WORK AHEAD" SIGN.
 5. "END WORK ONE" SIGN SHALL BE MOUNTED AT THE END OF THE WORK ONE WITH THE "END DOUBLE PENALTIES" SIGN, IF APPLICABLE, ON THE SAME DEVICE OR POST.
- THE DESIGNATION OF WORK ONE, INCLUDING MARKING OF THE DOUBLE PENALTIES, SHALL NOT BE REQUIRED ON STREETS POSTED AT 25 MILES PER HOUR OR LESS AND ARE THE ACCESS TO OR APPURTENANT TO A RESIDENTIAL AREA.

TYPICAL SIGN AND LETTERING SIZE TABLE

SPEED LIMIT	"DOUBLE PENALTIES IN WORK ONE" SIGN			"BEGIN WORK ONE" SIGN "END WORK ONE" SIGN "END DOUBLE PENALTIES" SIGN		
	"H" IN.	"W" IN.	LETTERING	"H" IN.	"W" IN.	LETTERING
LESS THAN 45 MPH	24	24	4 INCH SERIES "C"	18	24	4 INCH SERIES "D"
45 MPH OR GREATER OR IF MULTI-LANE	30	30	4 INCH SERIES "C"	30	30	4 INCH SERIES "D"

SEE THE CURRENT EDITION OF THE "STANDARD HIGHWAY SIGNS" MANUAL FOR SERIES "C" AND SERIES "D" LETTERING DIMENSIONS.



TYPICAL SIGN PLACEMENT

TYPICAL SIGN PLACEMENT NOTES

1. FOR DIMENSIONS "A", "B", AND "C", SEE THE CURRENT MUTCD TABLE C-1 "Recommended Advance Warning Sign Minimum Spacing."
2. FOR DIMENSION "L", SEE THE CURRENT MUTCD TABLE C-3 AND C-4.
3. SIGNS MAY BE OMITTED IN THE DIRECTION WORK IS NOT BEING CONDUCTED IF THE ROADWAY IS PHYSICALLY SEPARATED BY A RAISED MEDIAN OR BARRIER WALL THROUGH THE COMPLETE WORK ONE.

AGENCY APPROVED B C H L M N

TRAFFIC CONTROL PLAN
FOR
HIGHWAY WORK ONE

SPECIFICATION REFERENCE
71 SIGN MATERIALS

TYPICAL APPLICATION FOR
STANDARD FOR "DOUBLE PENALTIES" SIGNS
FOR USE IN TEMPORARY TRAFFIC CONTROL ONES

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA
SUPPLEMENTAL DRAWING
DATE 07-01-12 DWG NO. 27

PROPOSED EXISTING



PULL BOX



SIGNAL LUMINAIRE POLE, POST



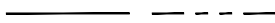
UTILITY POLE



CONTROL CABINET



CONDUIT RUN



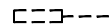
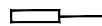
AERIAL CABLE



DETECTOR LOOP



PADMOUNT, ELECTRICAL SERVICE OR SPLICE BOX



FLUORESCENT LUMINAIRE



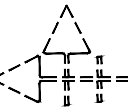
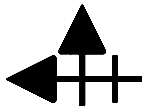
HIGH PRESSURE
SODIUM LUMINAIRE - 750 WATT



HIGH PRESSURE
SODIUM LUMINAIRE - 400 WATT



TRAFFIC SIGNAL INDICATION WITH BACKPLATE



TRAFFIC SIGNAL INDICATION WITH DIRECTIONAL
ARROW AND BACKPLATE



PEDESTRIAN INDICATION AND DIRECTION



HAZARD BEACON, ONE WAY

AGENCY APPROVED	B	C	H	L	M	N
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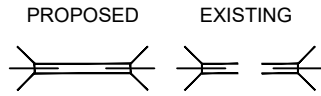
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

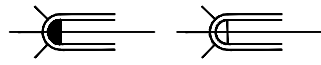
STANDARD SYMBOLS FOR
TRAFFIC SIGNAL DRAWINGS

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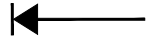
DATE 12-12-9	DWG. NO. 701	SHEET 1 OF 2
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STREET NAME SIGN
INTERNALLY ILLUMINATED



CURB FLASHER



VEHICLE MOVEMENT STOPPED



VEHICLE MOVEMENT MOVING



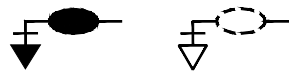
CONDUIT RUN NUMBER



PEDESTRIAN MOVEMENT



TRAFFIC SIGNAL ON MAST ARM



TRAFFIC SIGNAL AND LUMINAIRE
ON MAST ARMS



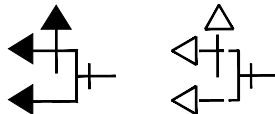
PEDESTRIAN PUSH BUTTON
INDICATING DIRECTION OF CONTROL



TRAFFIC SIGNAL WITH
ALL COLORS LOUVERED



SCHOOL FLASHER



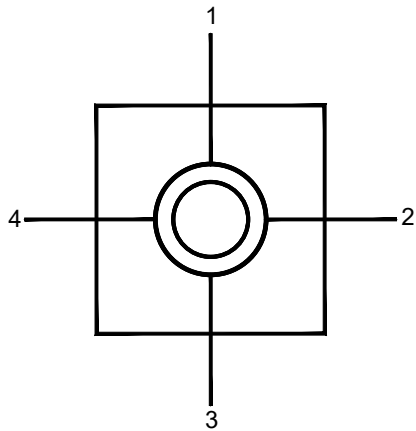
5 SECTION SIGNAL HEAD WITH DIRECTIONAL
ARROW AND BACKPLATE



PRIORITY VEHICLE PREEMPTION OPTICAL DETECTOR
 OPTICOM OR APPROVED EQUAL

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		STANDARD SYMBOLS FOR TRAFFIC SIGNAL DRAWINGS						
		DATE 12-12-9	DWG. NO. 701			SHEET 2 OF 2		

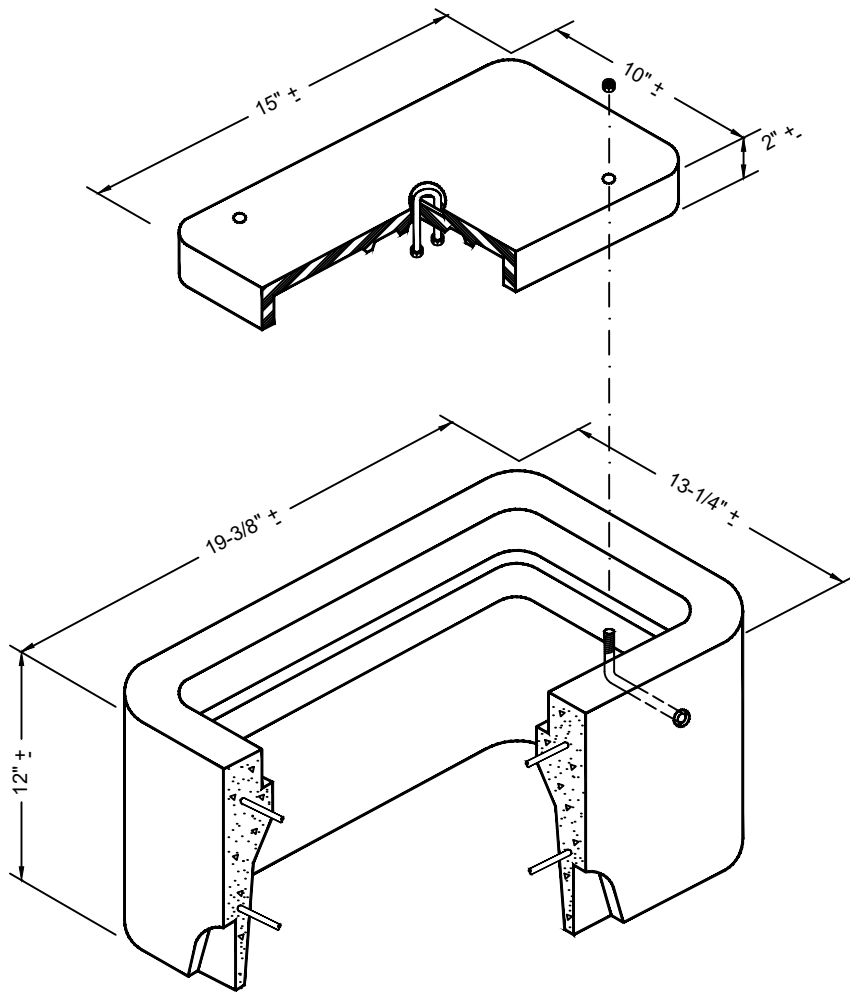


□ UADRANT
 ARM OR SIGNAL LOCATION
 □ TOP VIEW □

NOTE □ □ UADRANT IS IN RELATION WITH SHEET - NOT WITH NORTH ARROW

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		□ UADRANT DETAIL						
		DATE	DWG. NO. 702					



POLYMER COVER MARKED
"TRAFFIC SIGNAL"

PRECAST REINFORCED
CONCRETE BODY

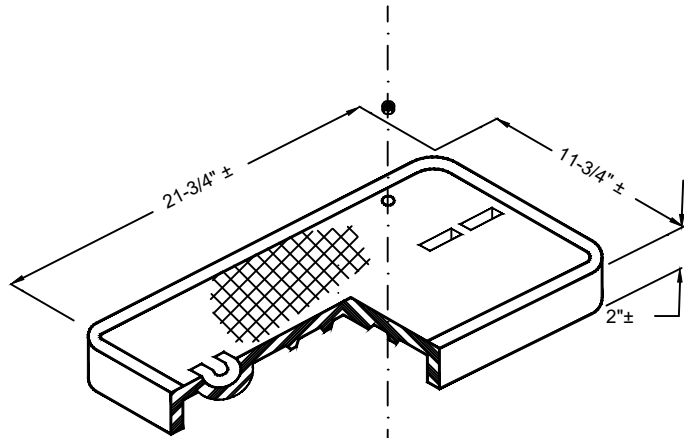
NOTES

1. THIS PULL BOX SHALL NOT BE USED IN TRAFFIC OR PARKING LANES.
2. ALL DIMENSIONS ARE NOMINAL.
3. TOP OF UTILITY BOXES INSTALLED IN SIDEWALK SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SIDEWALK, HAVE NO GAPS GREATER THAN 1/2", REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

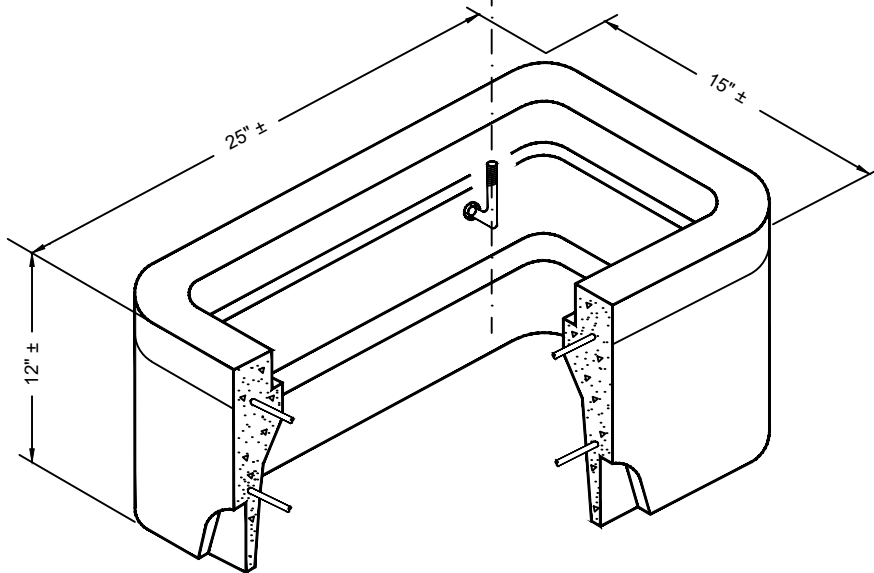
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N	R
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
		NO. 3 1/2 PULL BOX							
		DATE 01-09-20	DWG. NO. 705						

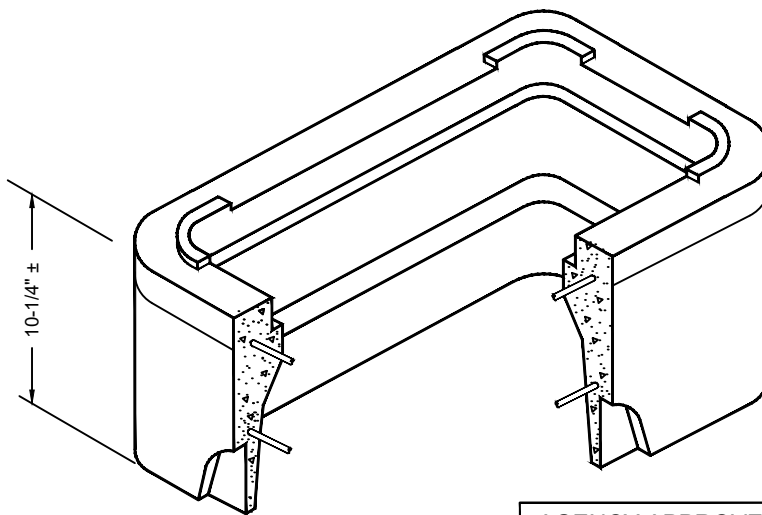
Effective 10/08/2020 to 12/09/2020



POLYMER SIDEWALK COVER
MARKED "TRAFFIC SIGNAL"



PRECAST REINFORCED
CONCRETE BODY



PRECAST REINFORCED CONCRETE
EXTENSION. (MUST NOT BE USED
UNLESS SPECIFIED.)

NOTES

1. TOP OF UTILITY BOXES INSTALLED IN SIDEWALK SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SIDEWALK, HAVE NO GAPS GREATER THAN 1/2", REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.
2. SEE DRAWING NO. 709 FOR COVER TO BE USED IN STREET AND UNDEVELOPED AREAS.
3. ALL DIMENSIONS ARE NOMINAL.

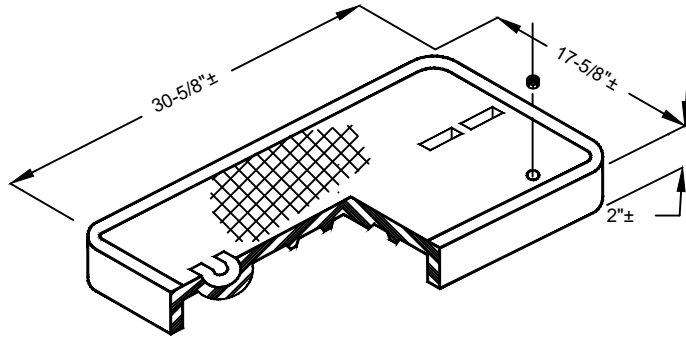
AGENCY APPROVED	B	C	H	L	M	N	R
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SPECIFICATION REFERENCE	

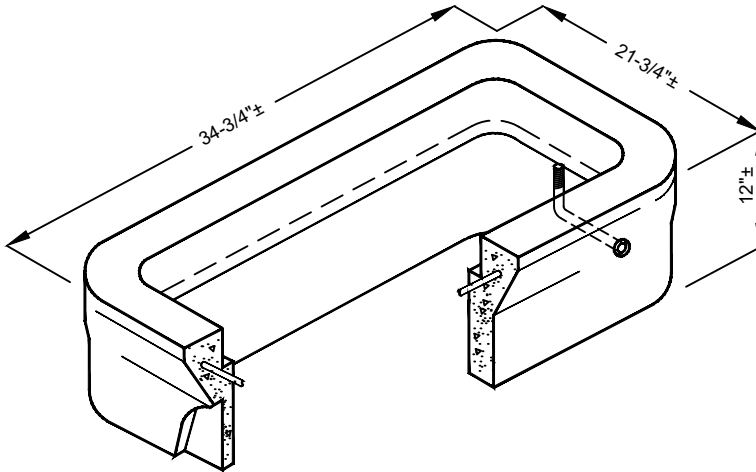
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

NO. 5 PULL BOX

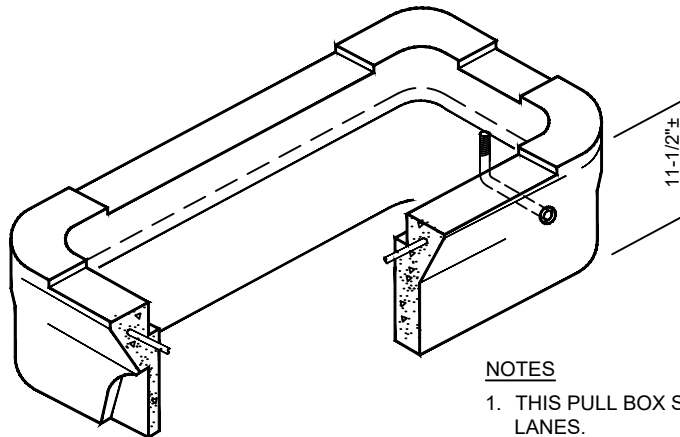
DATE 01-09-20	DWG. NO. 706
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POLYMER COVER MARKED "TRAFFIC SIGNAL" STEEL PULL BOX COVER, DRAWING NO. 709 IS PREFERRED FOR ALL USES, THIS PULL BOX ONLY.



PRECAST REINFORCED CONCRETE BODY



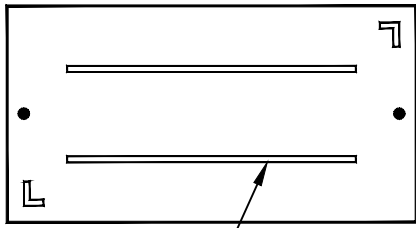
PRECAST REINFORCED CONCRETE EXTENSION (MUST NOT BE USED UNLESS SPECIFIED)

NOTES

1. THIS PULL BOX SHALL NOT BE USED IN TRAFFIC OR PARKING LANES.
2. SEE DRAWING NO. 709 FOR ALTERNATE COVER.
3. TOP OF UTILITY BOXES INSTALLED IN SIDEWALK SHALL HAVE NO VERTICAL SURFACE DISCONTINUITIES GREATER THAN 1/4" WITH ADJACENT SIDEWALK, HAVE NO GAPS GREATER THAN 1/2", REGARDLESS OF CONSTRUCTION TOLERANCES, AND BE FIRM, STABLE, AND SLIP RESISTANT.

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N	R
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
		NO. 7 PULL BOX							
		DATE 01-09-20	DWG. NO. 707						



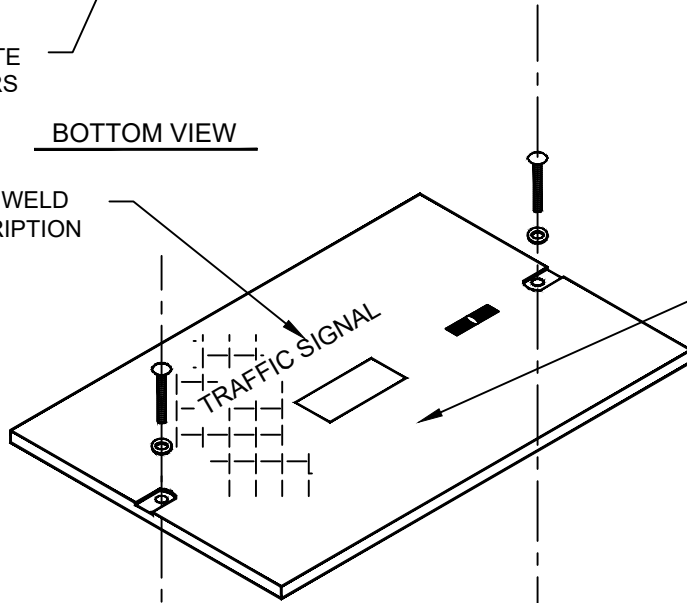
WELD PLATE STIFFENERS

BOTTOM VIEW

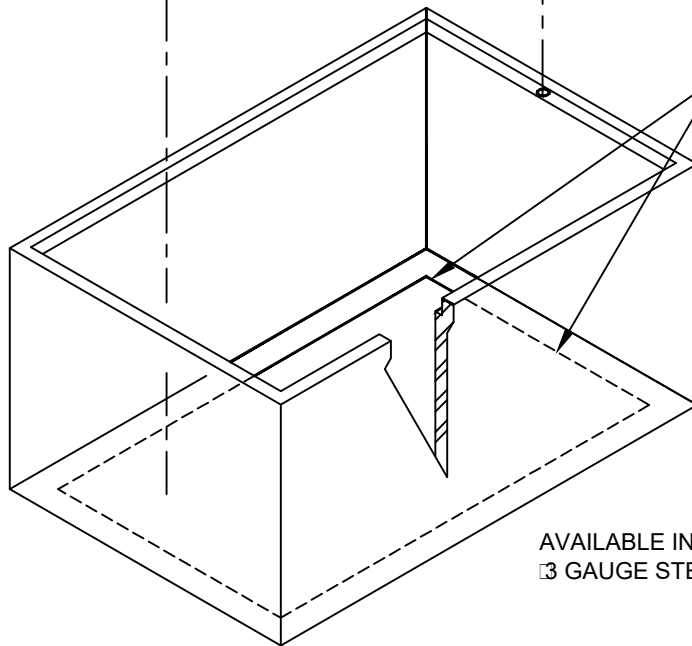


SIDE VIEW

BEAD WELD INSCRIPTION



3/8" DIAMOND PLATE



2" LIP AROUND INSIDE OF PULL BOX

NOTE □

1. THIS PULL BOX SHALL BE USED IN VEHICLE TRAVEL AREAS.

AVAILABLE IN 3, 5, 7 SIZES
3 GAUGE STEEL □

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		STEEL PULL BOXES						
		DATE	DWG. NO. 708					

ACCESS HOLE TO PULL BOX "L" BOLTS

BEAD WELD INSCRIPTION

TRAFFIC SIGNAL

STEEL FLOOR PLATE, 3/8" THICK, ROUND CORNERS TO MATCH EDGES OF PULL BOX

COVER

FINISHED GRADE

2"

SIDE

MOUNTING BRACKET, WELDED TO COVER, TYP. LOCATE TO MATCH PULL BOX "L" BOLTS

1/4" TYP.

15-1/4"

3/8" □ 1 □ COARSE THREAD TAP, CENTERED BETWEEN RIBS. FOR COVER GROUND CONNECTION SEE SHEET 2 OF THIS DRAWING NO.

17-1/4"

8-5/8"

2-1/2"

1/4"

2-1/4" TYP.

2-1/4" TYP.

30-1/2"

NOTES □

BOTTOM

1. THIS COVER TO BE USED IN STREET AREAS AND UNDEVELOPED AREAS ONLY.
2. TYPICAL NO. 7 PULL BOX COVER SHOWN. SUBMIT OTHERS TO THE ENGINEER FOR APPROVAL.
3. ALL TRAFFIC AND OPEN AREA COVERS SHALL BE H 20 RATED.
4. GROUNDING OF STEEL PULL BOX COVERS IS NOT NECESSARY FOR PULL BOXES CONTAINING LOW VOLTAGE, POWER-LIMITED CONNECTIONS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

B

C

H

L

M

N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

50 □

STEEL STRUCTURES

□23

TRAFFIC SIGNALS □ STREETLIGHTING

PULL BOX STREET COVER

DATE 12-12-9 □

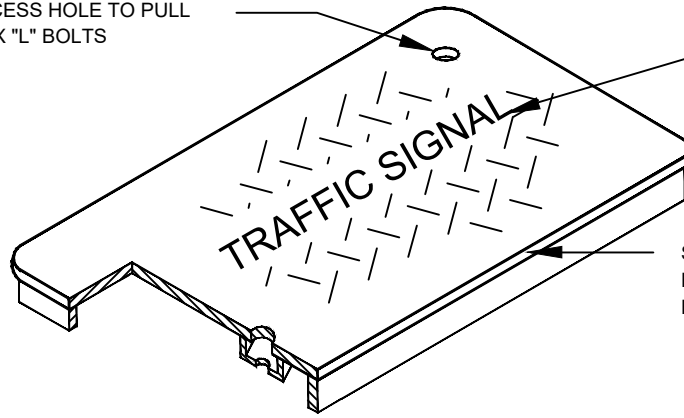
DWG. NO.

709

SHEET 1 OF 2

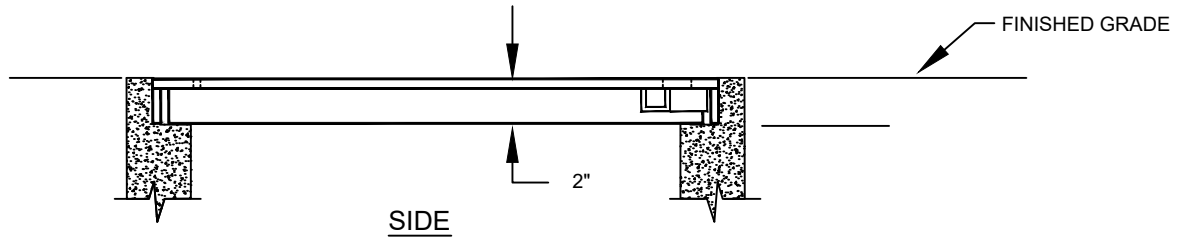
ACCESS HOLE TO PULL BOX "L" BOLTS

BEAD WELD INSCRIPTION

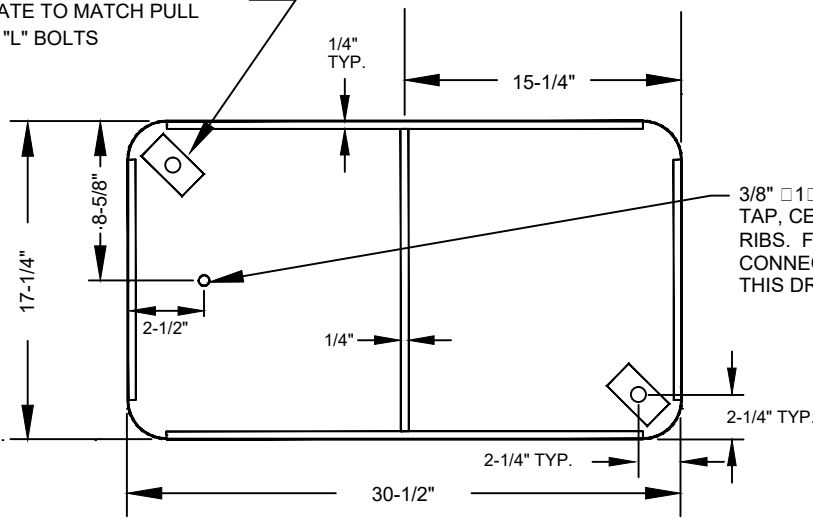


STEEL FLOOR PLATE, 3/8" THICK, ROUND CORNERS TO MATCH EDGES OF PULL BOX

COVER



MOUNTING BRACKET, WELDED TO COVER, TYP. LOCATE TO MATCH PULL BOX "L" BOLTS



3/8" □ 1 □ COARSE THREAD TAP, CENTERED BETWEEN RIBS. FOR COVER GROUND CONNECTION SEE SHEET 2 OF THIS DRAWING NO.

NOTES □

BOTTOM

1. THIS COVER TO BE USED IN STREET AREAS AND UNDEVELOPED AREAS ONLY.
2. TYPICAL NO. 7 PULL BOX COVER SHOWN. SUBMIT OTHERS TO THE ENGINEER FOR APPROVAL.
3. ALL TRAFFIC AND OPEN AREA COVERS SHALL BE H 20 RATED.
4. GROUNDING OF STEEL PULL BOX COVERS IS NOT NECESSARY FOR PULL BOXES CONTAINING LOW VOLTAGE, POWER-LIMITED CONNECTIONS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

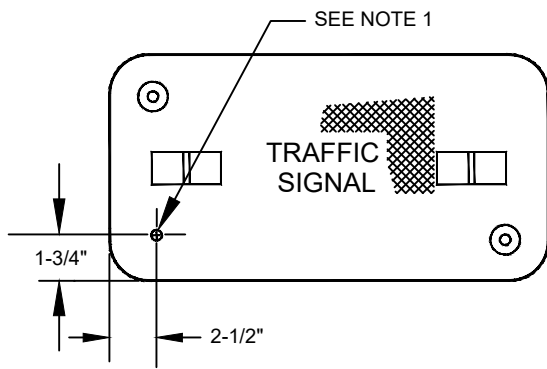
AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE	
50 □	STEEL STRUCTURES
□23	TRAFFIC SIGNALS □ STREETLIGHTING

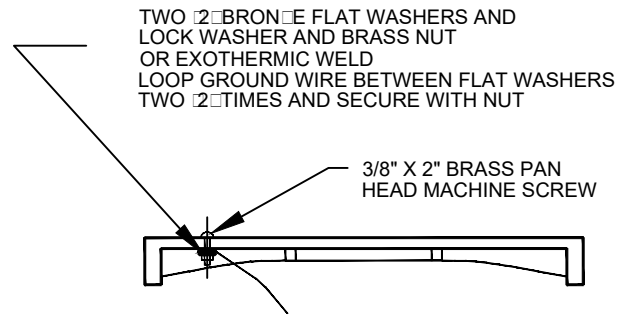
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PULL BOX STREET COVER

DATE 12-12-9 □ DWG. NO. 709 SHEET 1 OF 2

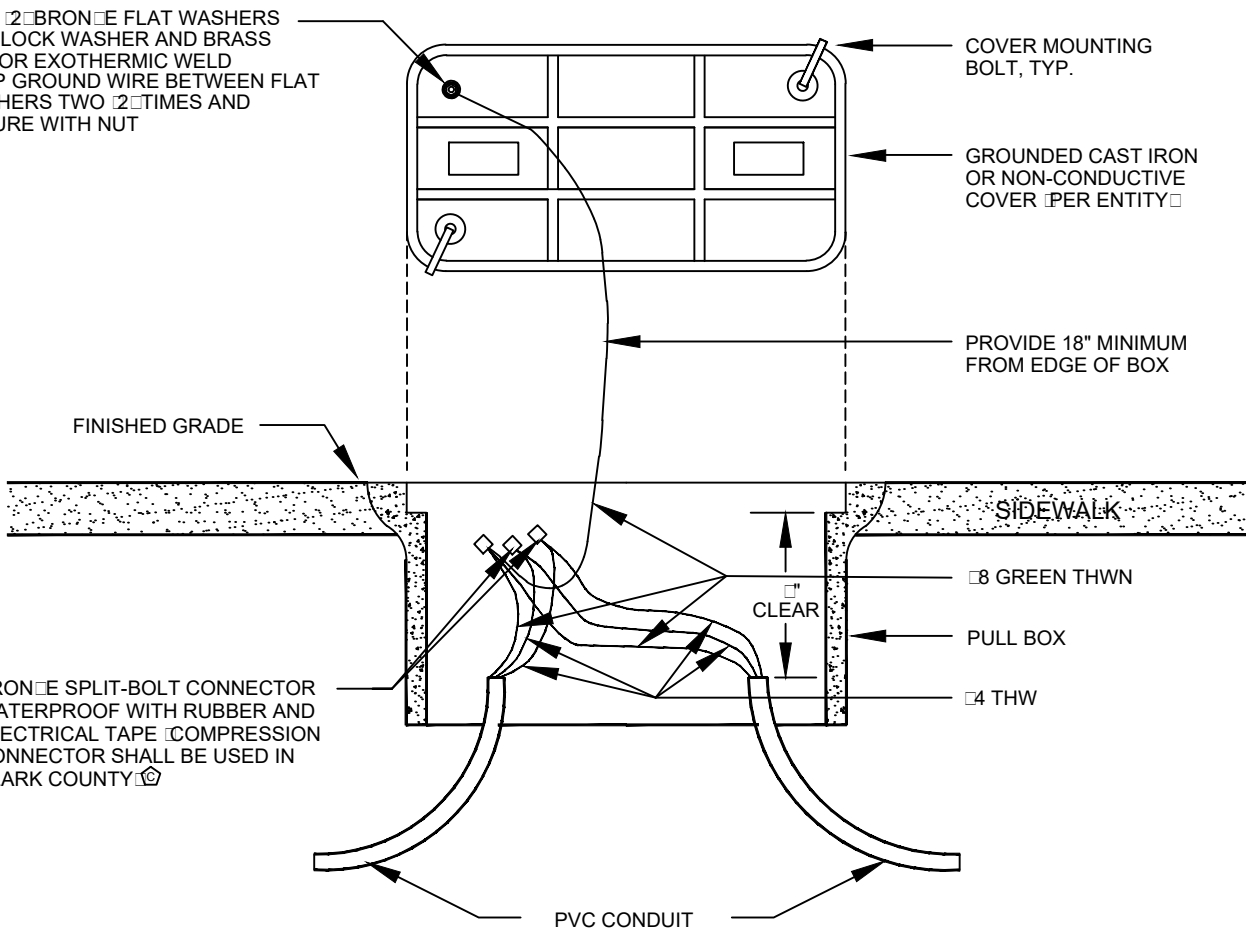


PULL BOX COVER - TOP VIEW



PULL BOX COVER - SIDE VIEW

TWO 1/2" BRASS FLAT WASHERS AND LOCK WASHER AND BRASS NUT OR EXOTHERMIC WELD LOOP GROUND WIRE BETWEEN FLAT WASHERS TWO TIMES AND SECURE WITH NUT



BRASS SPLIT-BOLT CONNECTOR WATERPROOF WITH RUBBER AND ELECTRICAL TAPE (COMPRESSION CONNECTOR SHALL BE USED IN CLARK COUNTY)

NOTES

1. PULL BOX LID SHOULD BE TAPPED WITH A 3/8" X 1" COURSE THREAD TAP.
2. FOR TYPICAL NO. 7 PULL BOX COVER GROUNDING, SEE SHEET 1 OF THIS DRAWING NO.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

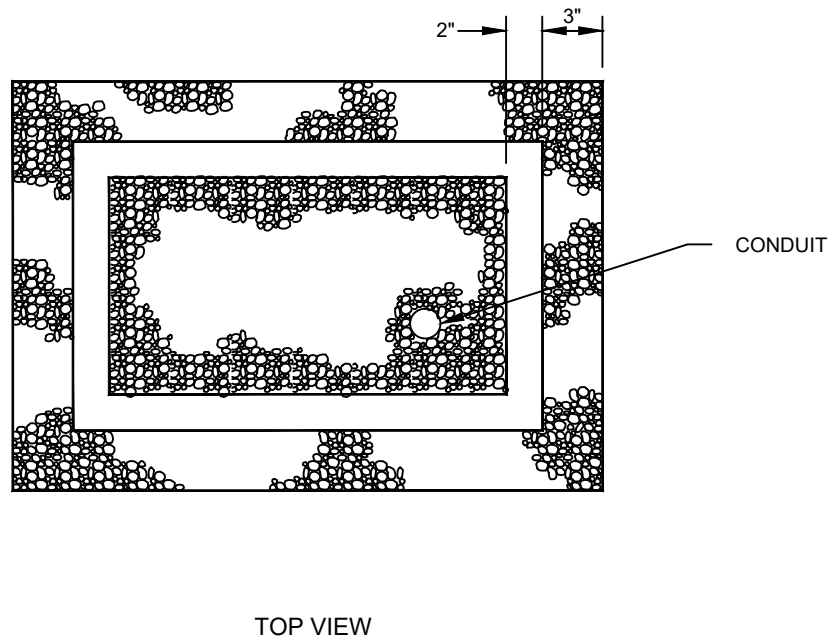
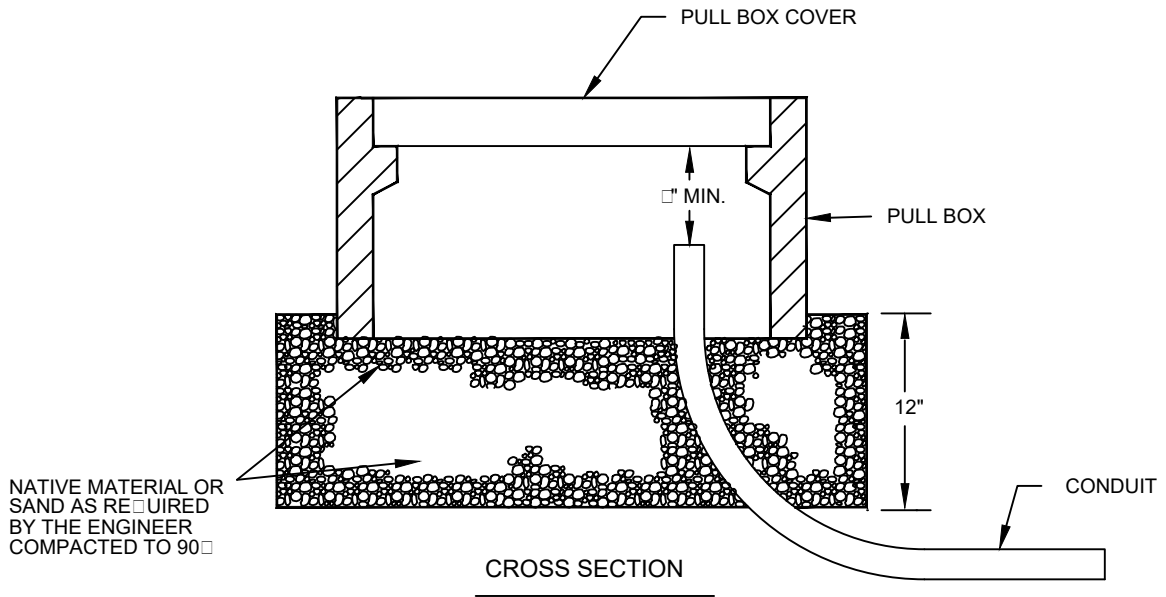
AGENCY APPROVED B  H L M N

SPECIFICATION REFERENCE	
23	TRAFFIC SIGNALS & STREETLIGHTING

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

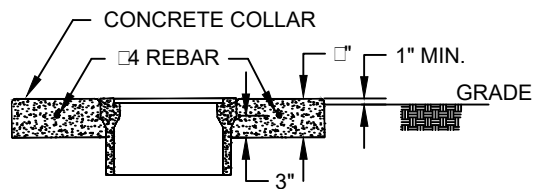
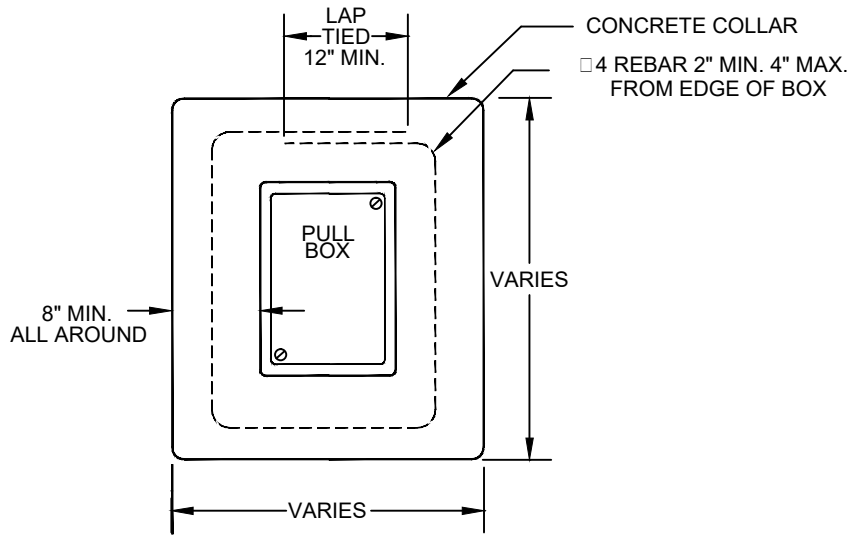
**PULL BOX COVER
BONDING DETAIL**

DATE 12-12-9 DWG. NO. 709 SHEET 2 OF 2



Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		PULL BOX FOUNDATION						
		DATE 7-12-01	DWG. NO.		710			



TYPICAL SECTION

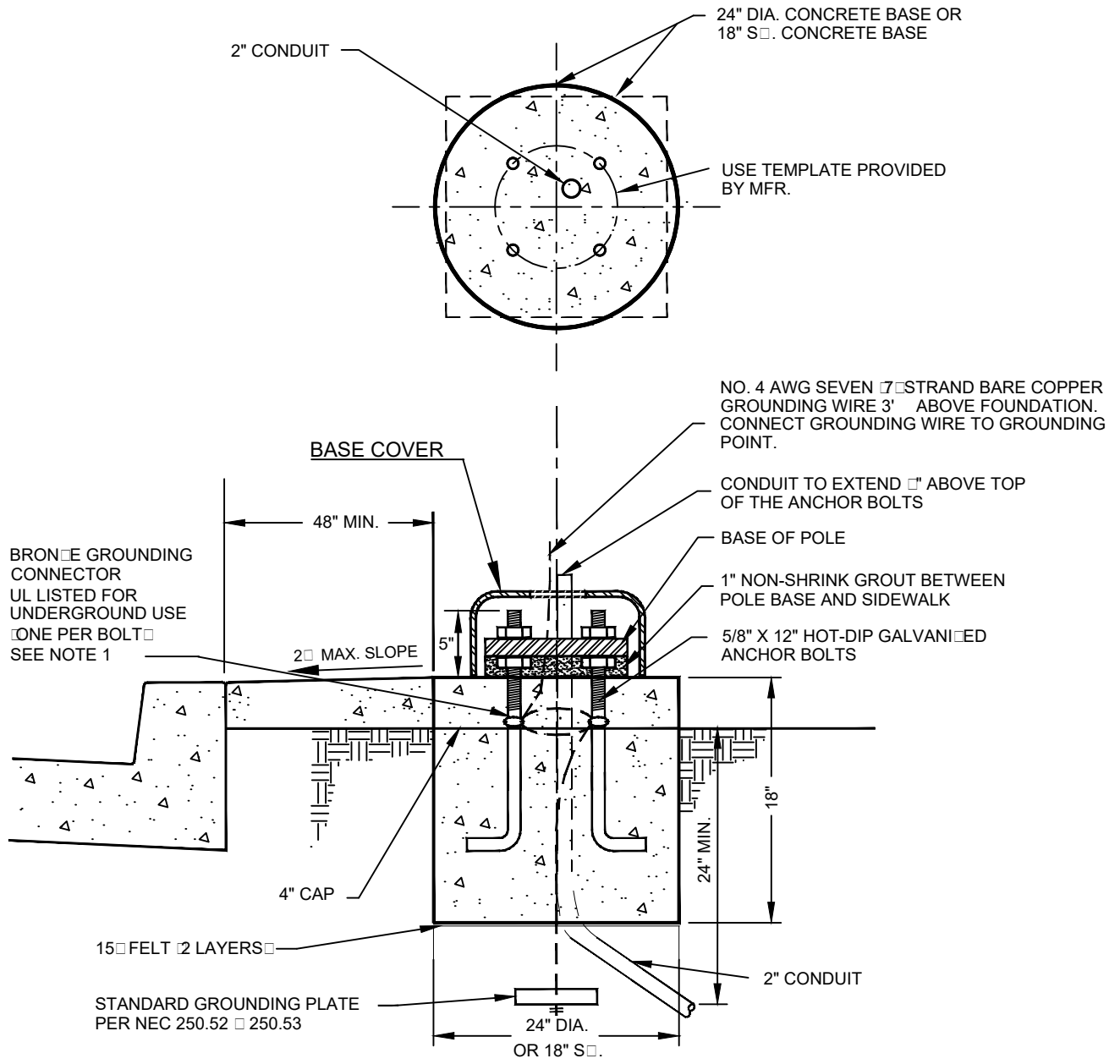
PULL BOX CONCRETE COLLAR
IN UNDEVELOPED AREAS

NOTES

1. P30 PULL BOXES SHALL BE INSTALLED FOR THE SIGNAL ITS COMMUNICATIONS PER APPLICABLE STANDARDS.
2. PULL BOX COVER SHALL BE INSCRIBED "FIBER OPTIC".
3. LOCATIONS OF THE PROPOSED P30 ITS COMMUNICATION PULL BOXES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE LOCATIONS IN THE FIELD AT APPROXIMATELY 500 FEET INTERVALS. THESE LOCATIONS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER BEFORE INSTALLATION.
4. DETAIL SHOWS METHOD OF INSTALLATION WHEN FIBER OPTIC CABLE IS REQUIRED.
5. CONDUIT SIZES SHALL BE PER UNIFORM STANDARD SPECIFICATIONS, SECTION 23.
6. ALL CONDUITS SHALL HAVE A CONTINUOUS RUN OF 1 PAIR PE39 22 AWG INTERCONNECT CABLE.
7. UNDERGROUND ORANGE MARKING TAPE SHALL BE PLACED 12 INCHES ABOVE THE INSTALLED CONDUIT AND MARKED WITH THE LEGEND "FIBER OPTIC".

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		PULL BOX CONCRETE COLLAR IN UNDEVELOPED AREAS						
		DATE 3-13-08	DWG. NO. 711					

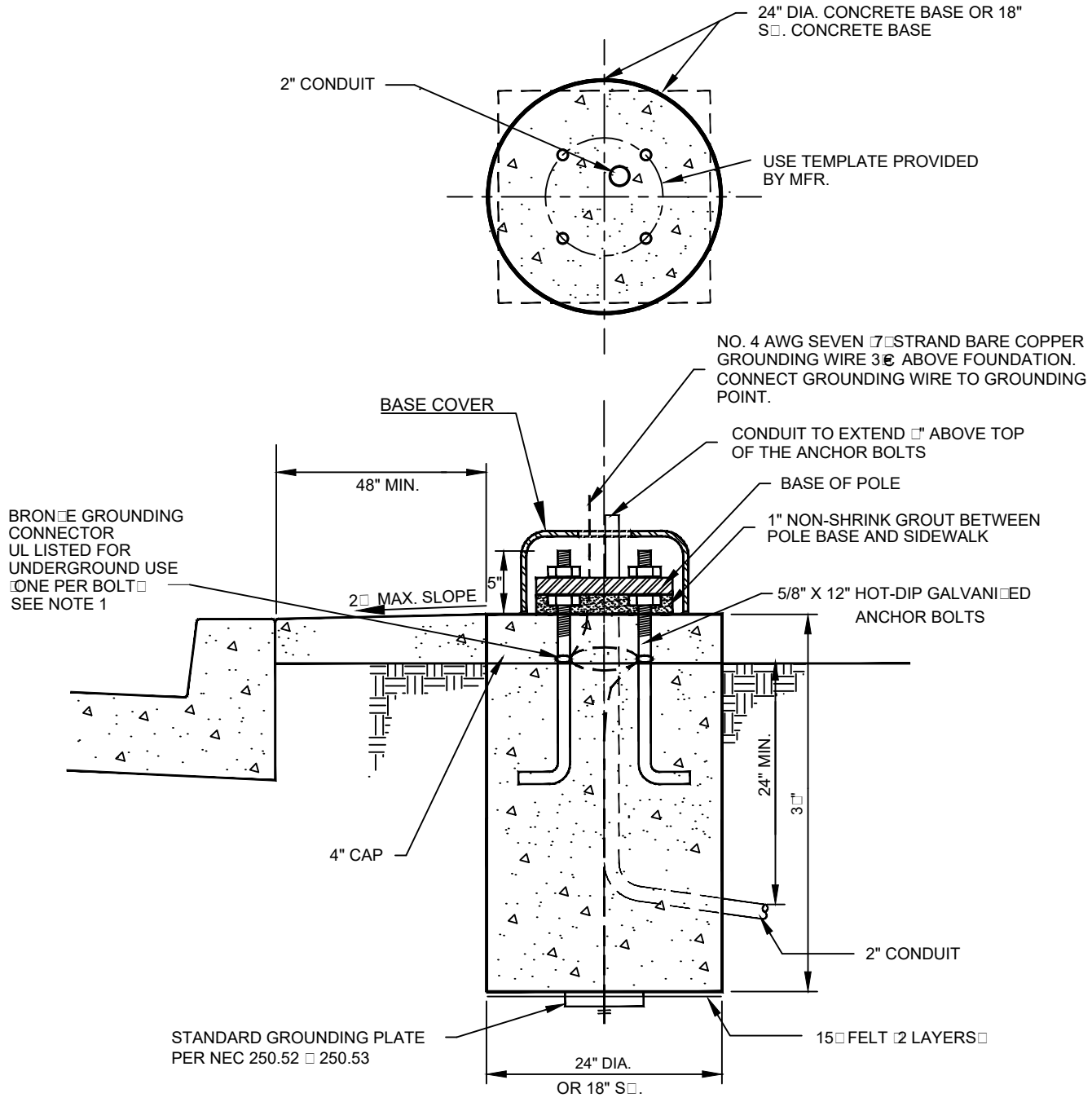


NOTE

1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
501	PORTLAND CEMENT CONCRETE	TYPE "A" FOUNDATION						
23	TRAFFIC SIGNALS & STREETLIGHTING							
		DATE	07-01-15	DWG. NO.	715			

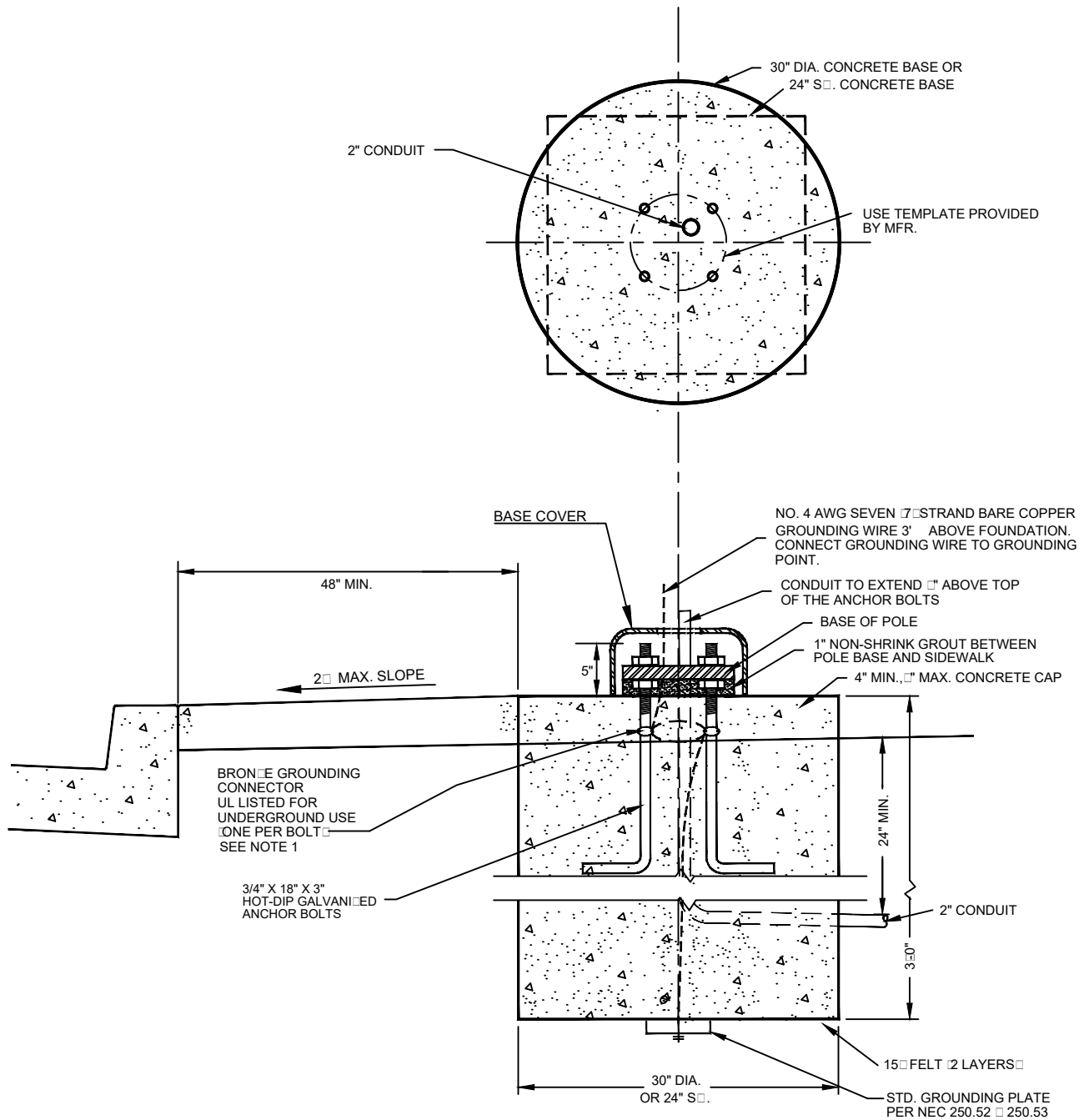


NOTE

1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE		AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
501	PORTLAND CEMENT CONCRETE	TYPE "B" FOUNDATION							
23	TRAFFIC SIGNALS & STREETLIGHTING								
DATE 07-01-15		DWG. NO.		71					

Effective 10/08/2020 to 12/09/2020



NOTE

1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

501 PORTLAND CEMENT CONCRETE

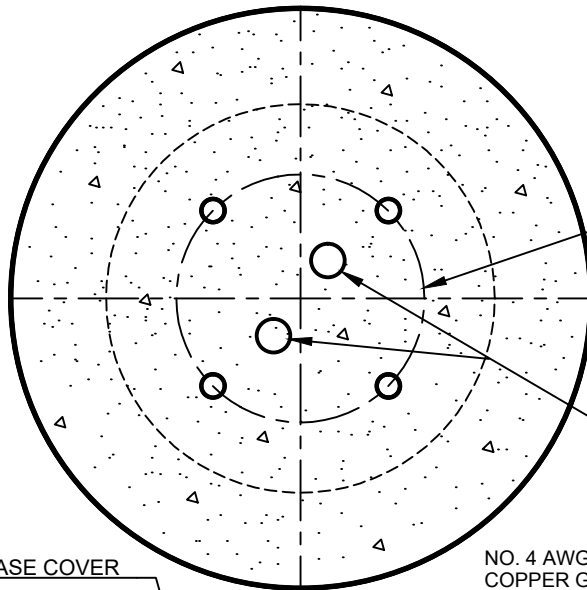
23 TRAFFIC SIGNALS STREETLIGHTING

TYPE "C" FOUNDATION

DATE 07-01-15 DWG. NO. 717

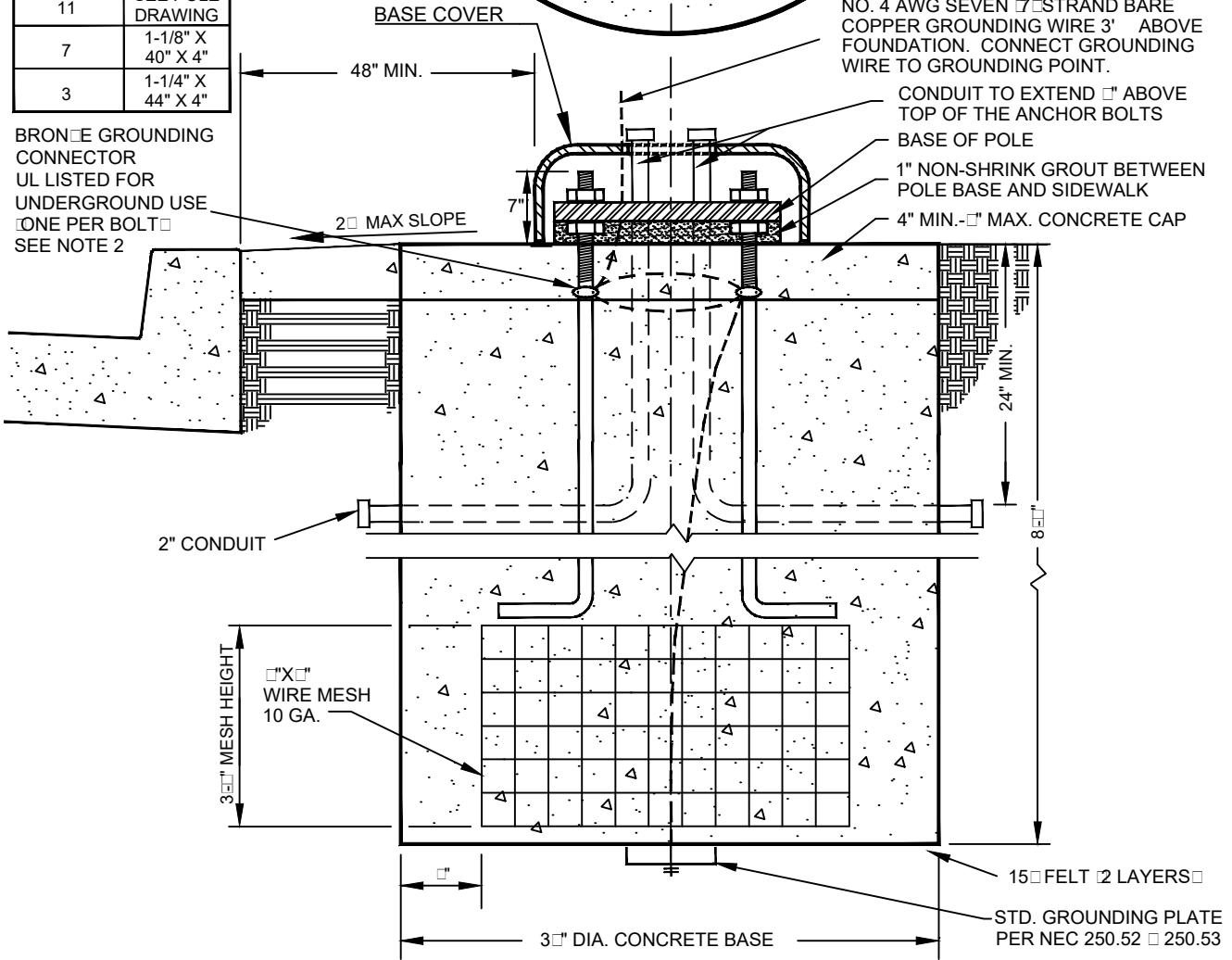
NOTES:

- ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
- CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.



ANCHOR BOLTS	
POLE GA.	BOLT "E"
11	SEE POLE DRAWING
7	1-1/8" X 40" X 4"
3	1-1/4" X 44" X 4"

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE ONE PER BOLT SEE NOTE 2



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

501	PORTLAND CEMENT CONCRETE
23	TRAFFIC SIGNALS STREETLIGHTING

TYPE "E" FOUNDATION

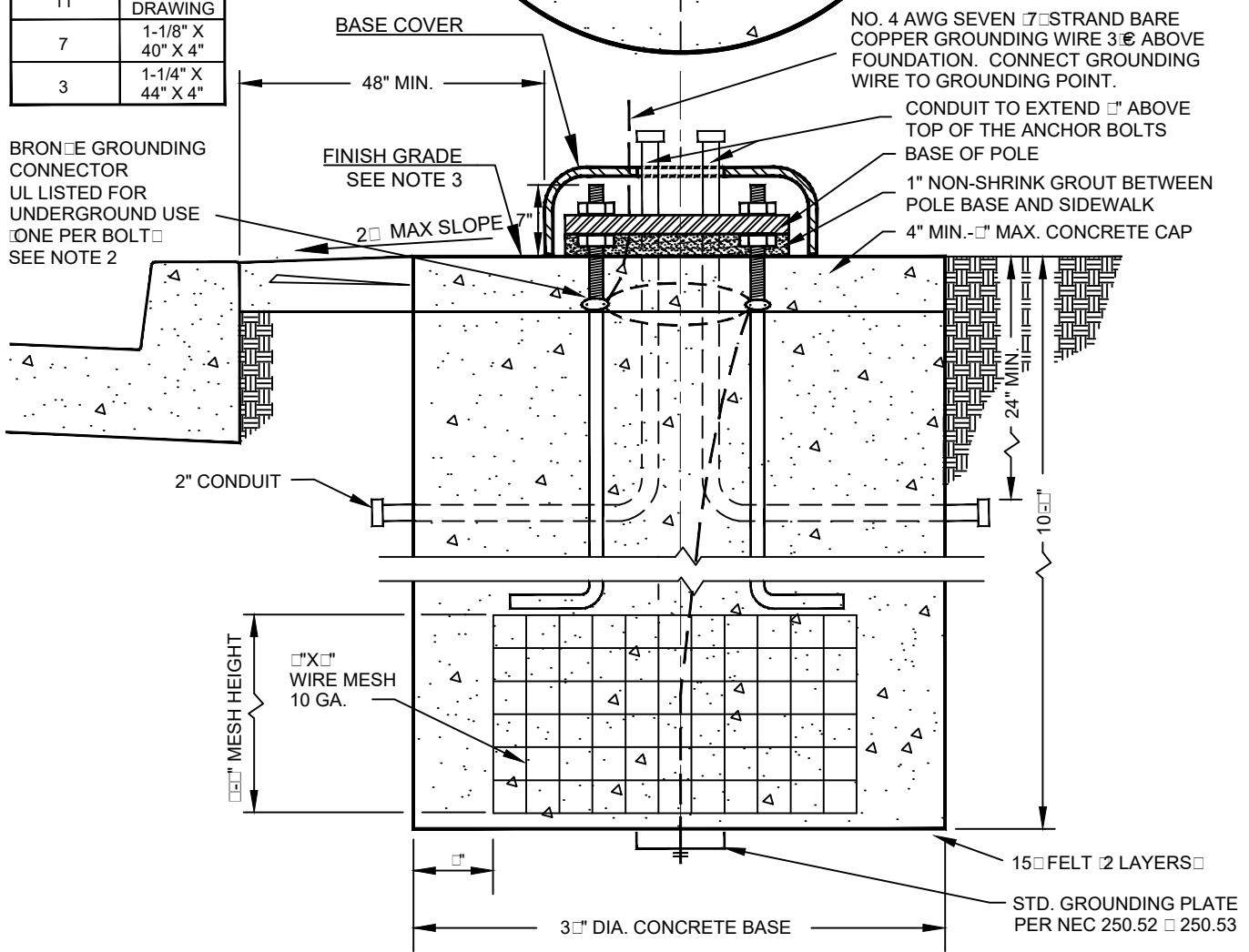
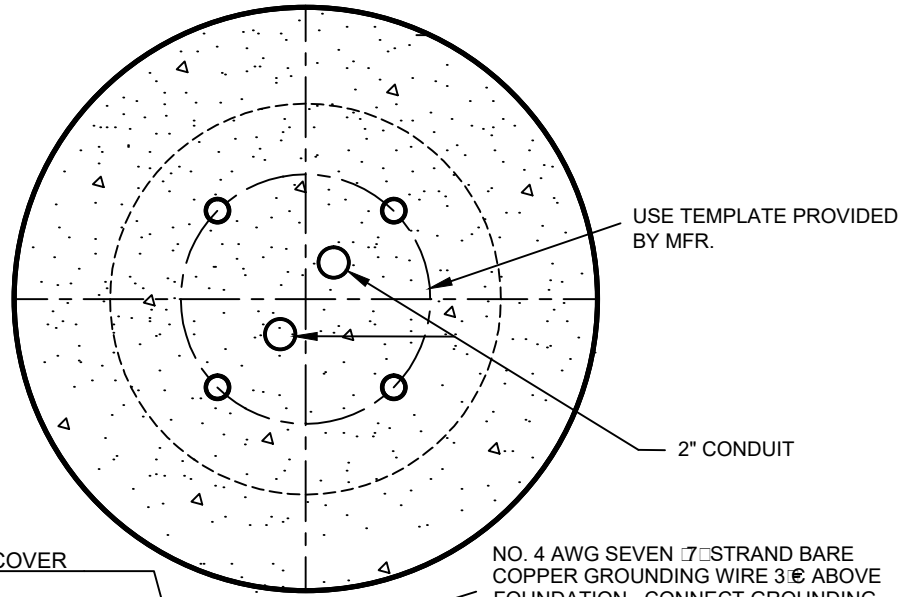
DATE 07-01-15 DWG. NO. 718

NOTES

- ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
- CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
- VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

ANCHOR BOLTS	
POLE GA.	BOLT "E"
11	SEE POLE DRAWING
7	1-1/8" X 40" X 4"
3	1-1/4" X 44" X 4"

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE ONE PER BOLT SEE NOTE 2



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE	
501	PORTLAND CEMENT CONCRETE
23	TRAFFIC SIGNALS & STREETLIGHTING

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "F" FOUNDATION

DATE 07-01-15 DWG. NO. 719

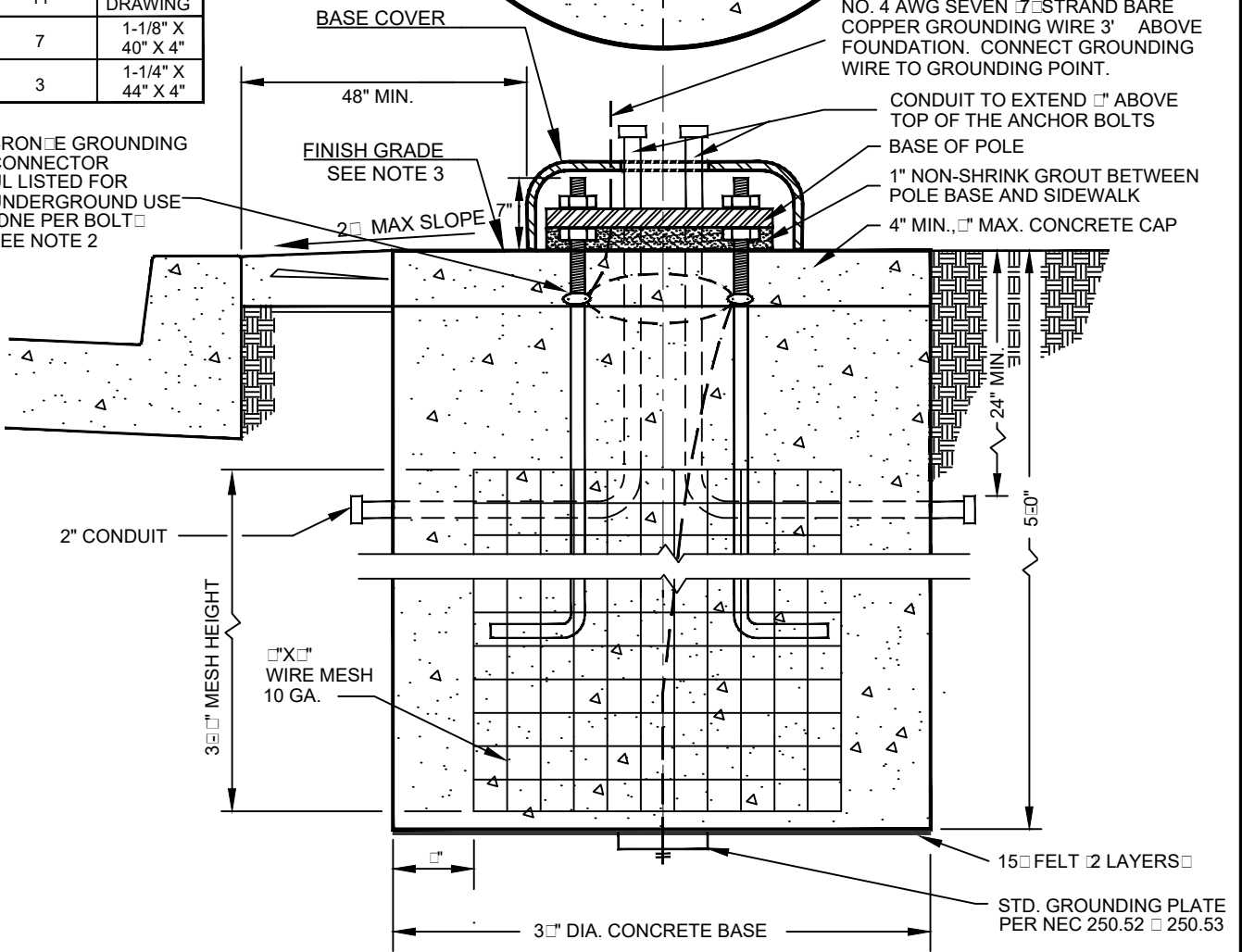
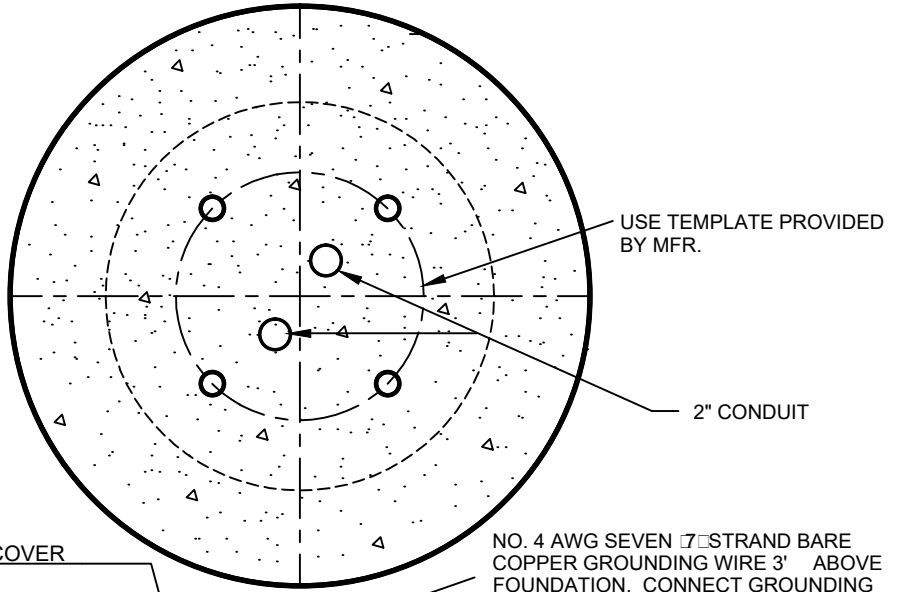
Effective 10/08/2020 to 12/09/2020

NOTES

- ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
- CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
- VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

ANCHOR BOLTS	
POLE GA.	BOLT "E"
11	SEE POLE DRAWING
7	1-1/8" X 40" X 4"
3	1-1/4" X 44" X 4"

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE ONE PER BOLT SEE NOTE 2



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

501 PORTLAND CEMENT CONCRETE

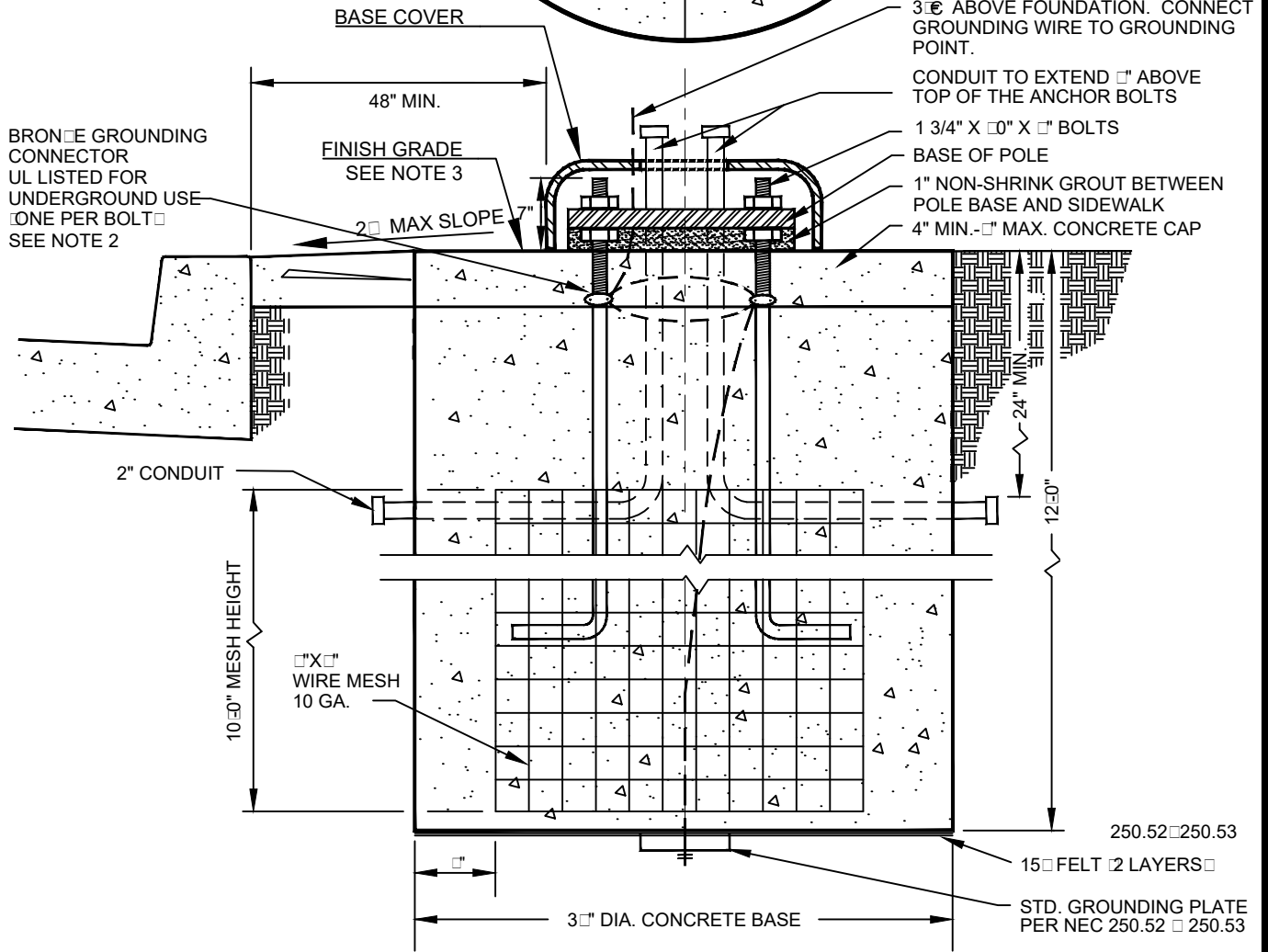
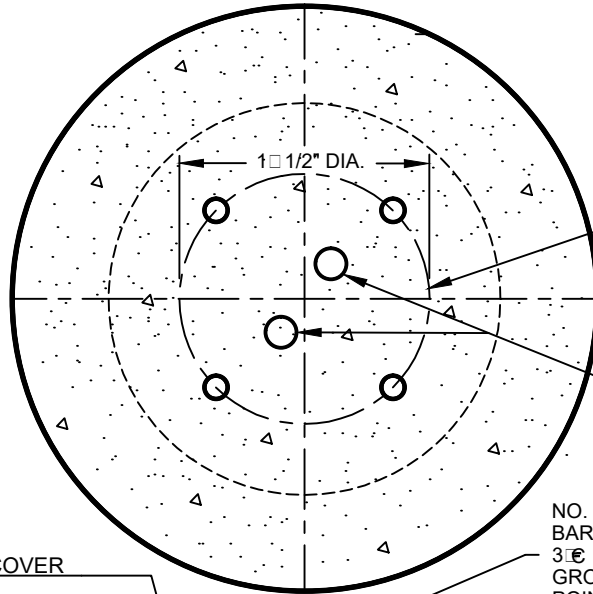
23 TRAFFIC SIGNALS & STREETLIGHTING

TYPE "G" FOUNDATION

DATE 07-01-15 DWG. NO. 720

NOTES

- ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
- CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
- VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

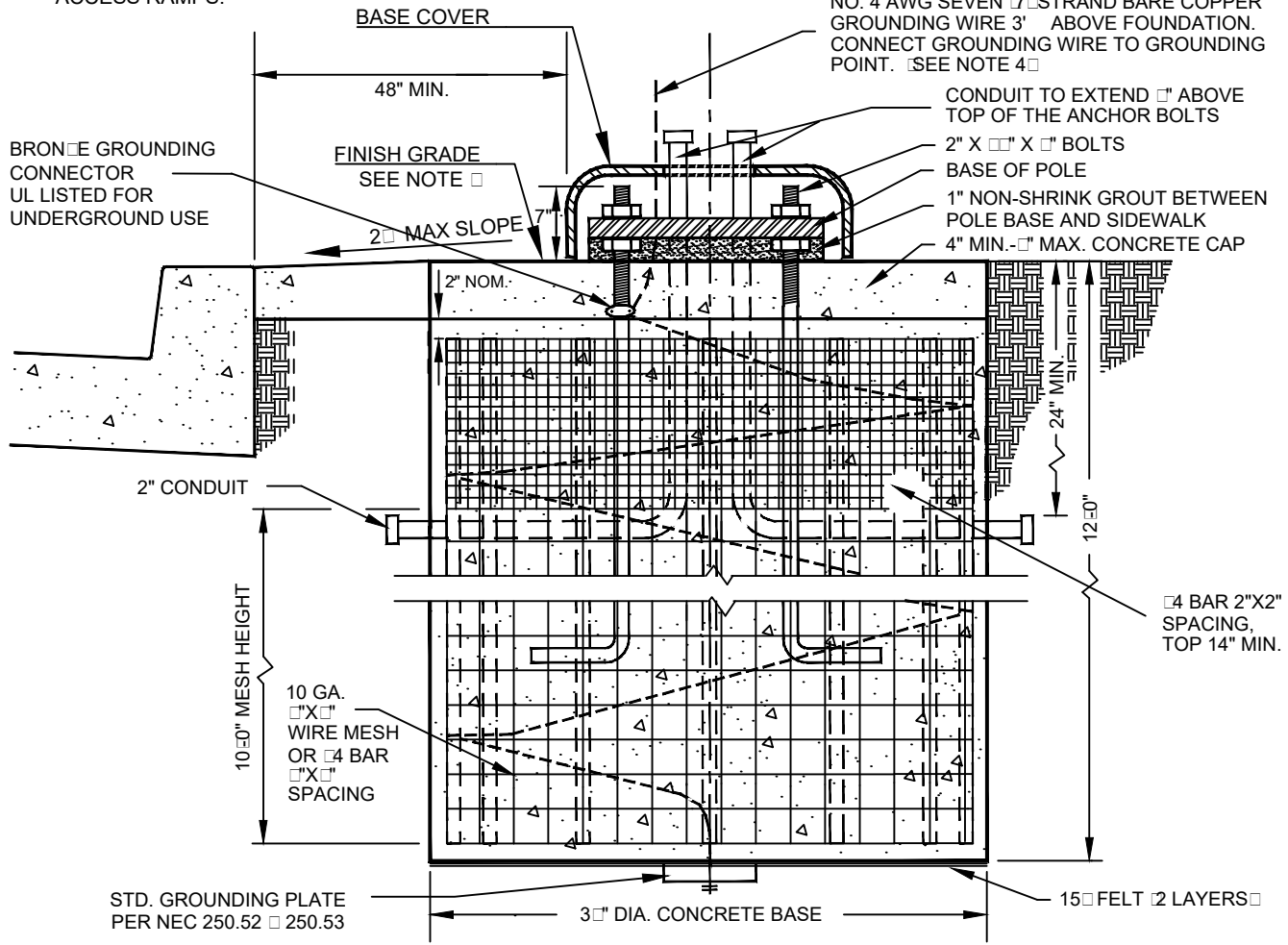
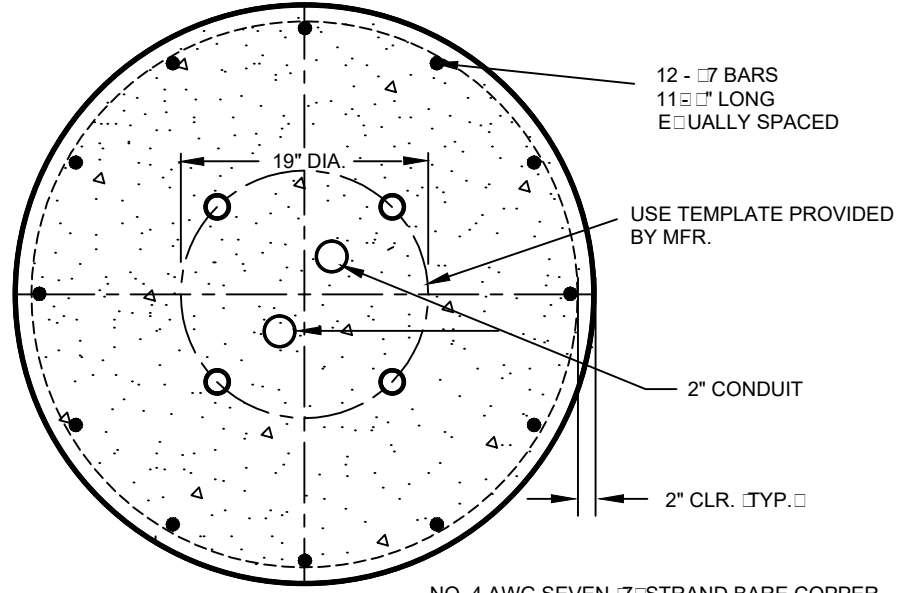
SPECIFICATION REFERENCE	
501	PORTLAND CEMENT CONCRETE
23	TRAFFIC SIGNALS & STREETLIGHTING

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE "H" FOUNDATION	
DATE 07-01-15	DWG. NO. 721

Effective 10/08/2020 to 12/09/2020

NOTES

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
 2. ANCHOR BOLT MINIMUM YIELD STRENGTH F_y 50 KSI.
 3. SURROUNDING SOIL MUST HAVE SOIL-BEARING PRESSURE S₁ OF 1500 PSF.
 4. WRAP 20# OF #4 AWG BARE COPPER GROUNDING WIRE AROUND ENTIRE CAGE. GROUNDING WIRE SHALL BE CONNECTED TO ONE ANCHOR BOLT NEAR TOP OF FOUNDATION AND CONTINUE DOWN AROUND CAGE AND CONNECT TO GROUNDING PLATE AT BOTTOM OF FOUNDATION.
 5. STEEL WIRE SHALL BE USED TO TIE ALL BARS AND WIRE MESH FIRMLY TOGETHER.
- VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

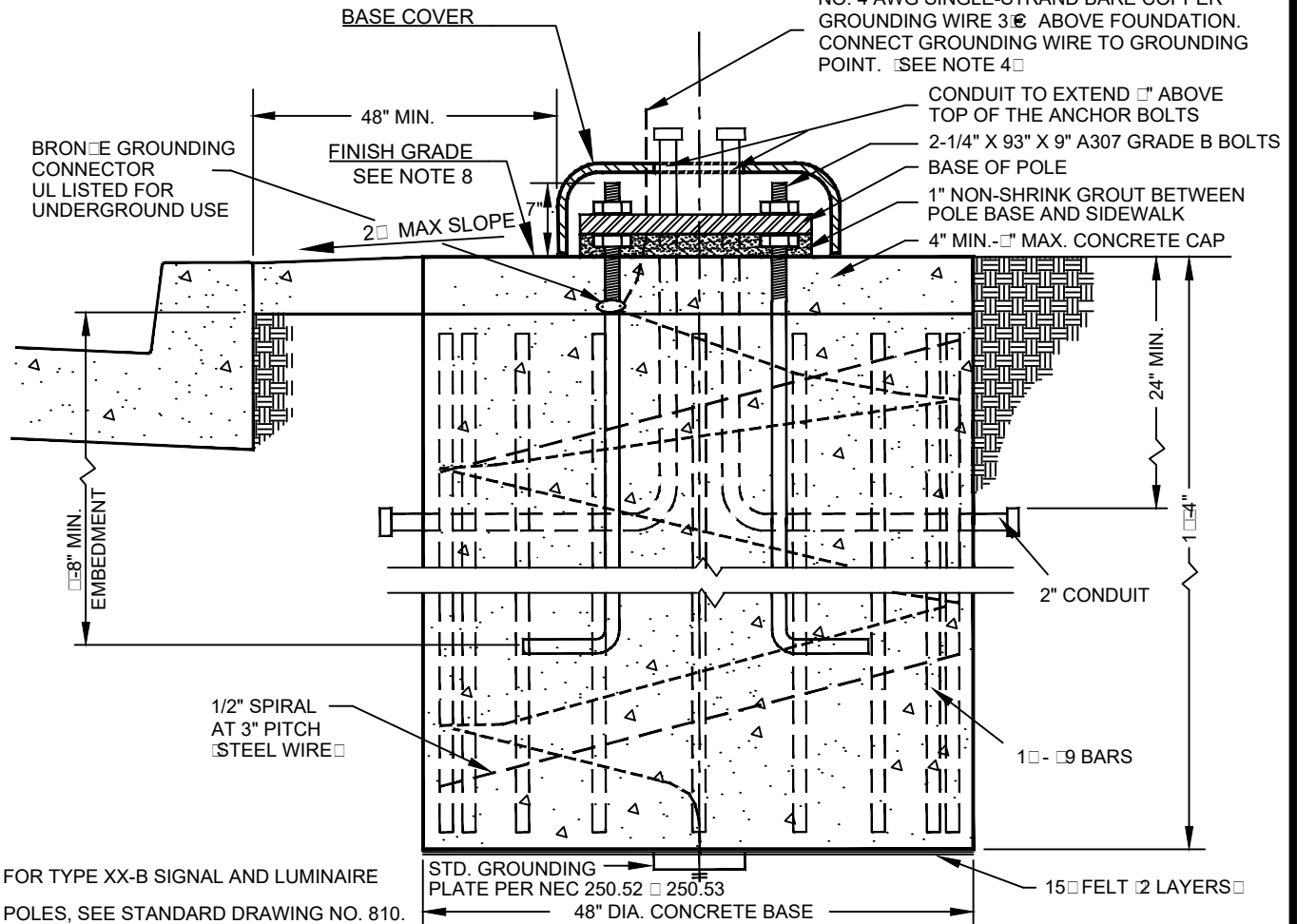
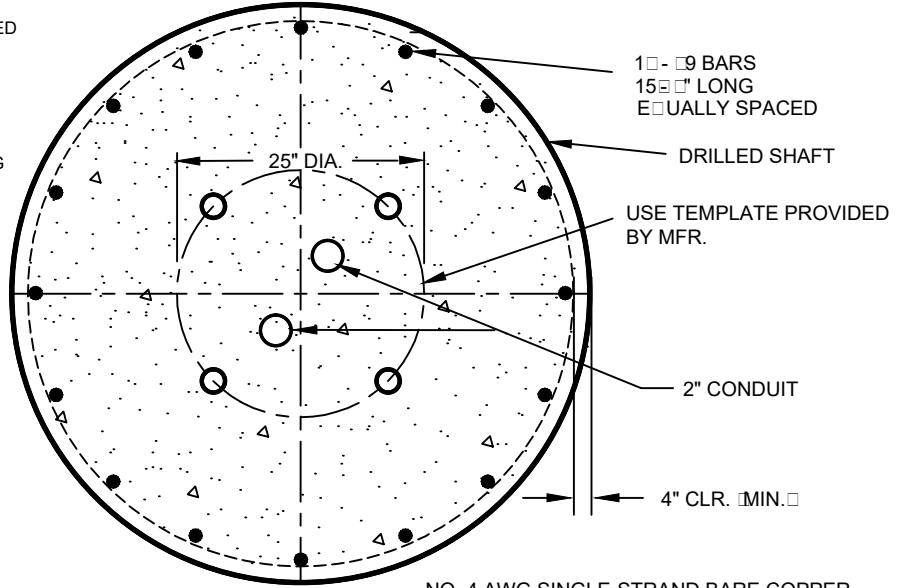


PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
501	PORTLAND CEMENT CONCRETE	TYPE "L" FOUNDATION						
#23	TRAFFIC SIGNALS □ STREETLIGHTING							
DATE	07-01-15	DWG. NO.	722					

Effective 10/08/2020 to 12/09/2020

NOTES

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. WRAP 20# OF #4 AWG BARE COPPER GROUNDING WIRE AROUND ENTIRE CAGE. GROUNDING WIRE SHALL BE CONNECTED TO ONE ANCHOR BOLT NEAR TOP OF FOUNDATION AND CONTINUE DOWN AROUND CAGE AND CONNECT TO GROUNDING PLATE AT BOTTOM OF FOUNDATION.
3. STEEL WIRE SHALL BE USED TO TIE ALL BARS AND SPIRAL FIRMLY TOGETHER.
4. 28 DAY STRENGTH - 4000 PSI MIN. ALL REINFORCING STEEL SHALL BE ASTM A#15 GR #.
5. MAXIMUM ALLOWABLE OVERTURNING MOMENT IS 180 FT-KIPS.
6. MAXIMUM ALLOWABLE TORSION IS 220 FT-KIPS.
7. THE FOUNDATION DESIGN SHOWN ASSUMES A NON-COHESIVE SOIL WITH A MINIMUM INTERNAL FRICTION ANGLE OF 30 DEGREES. IF ACTUAL SOIL CONDITIONS ARE LESSER QUALITY, THE FOUNDATION SHOULD BE DESIGNED FOR THE SPECIFIC SITE CONDITIONS.
8. VERTICAL ADJUSTMENT REQUIRED FOR POLES INSIDE ACCESS RAMPS.

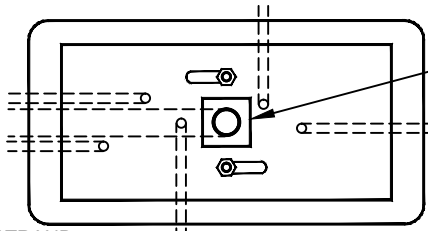


FOR TYPE XX-B SIGNAL AND LUMINAIRE POLES, SEE STANDARD DRAWING NO. 810.

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
TYPE "M" FOUNDATION							
DATE 07-01-15	DWG. NO.	723					

SPECIFICATION REFERENCE	
501	PORTLAND CEMENT CONCRETE
#23	TRAFFIC SIGNALS & STREETLIGHTING

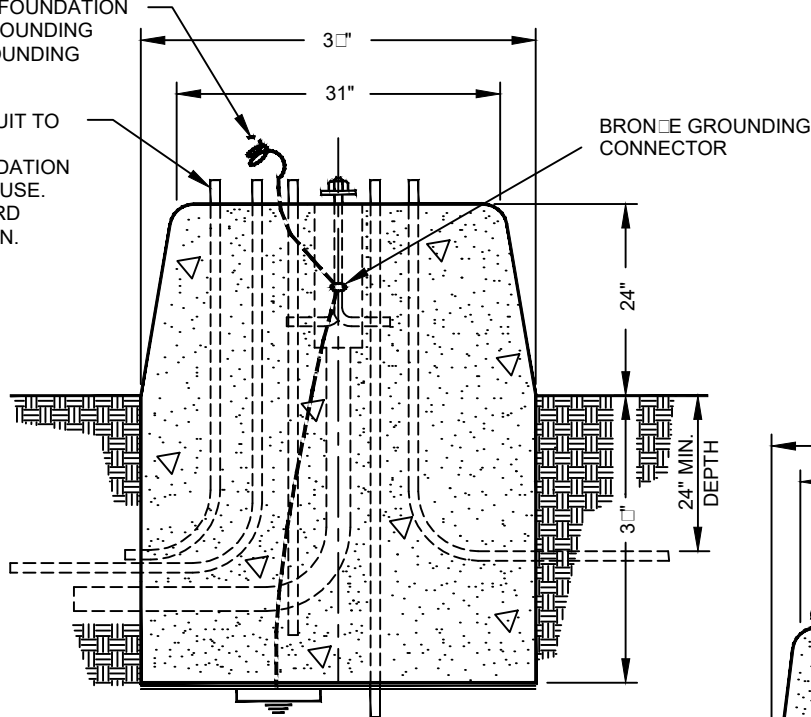
Effective 10/08/2020 to 12/09/2020



8" X 8" HOLLOW CORE. DEPTH VARIES. USE AROUND EXISTING PIPE PEDESTAL WHEN APPLICABLE.

□ OF □ 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION CONNECT GROUNDING WIRE TO GROUNDING POINT.

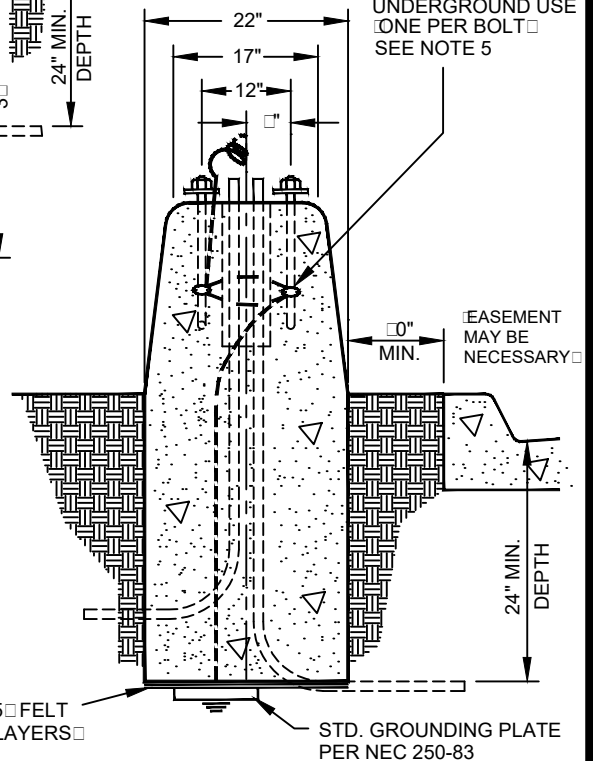
2" PVC CONDUIT TO BE ADDED IN EVERY FOUNDATION FOR FUTURE USE. POINT TOWARD INTERSECTION.



BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE □ ONE PER BOLT □ SEE NOTE 5

NOTES

- FOR CONDUIT SIZE, LOCATION AND QUANTITY, SEE PLANS.
- ANCHOR BOLTS 3/4" X 18" X 3" SHALL BE HOT-DIP GALVANIZED COMMERCIAL GRADE STEEL WITH NUT AND WASHER.
- ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" MIN., 4-1/2" MAX.
- CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 2" MIN., 4" MAX.
- CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.



EASEMENT MAY BE NECESSARY □

15 FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

B

C

H

L

M

N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

501

PORTLAND CEMENT CONCRETE

23

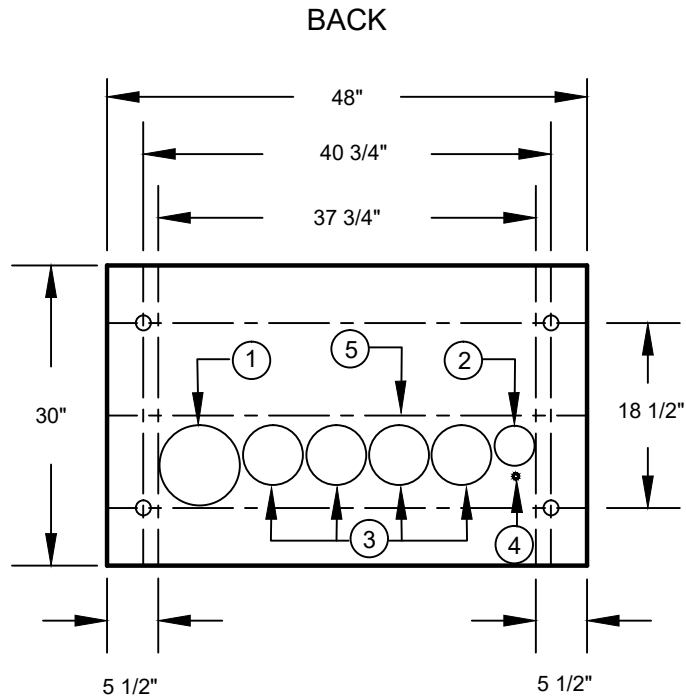
TRAFFIC SIGNALS □ STREETLIGHTING

TYPE "I" FOUNDATION

DATE 9-14-00

DWG. NO.

724



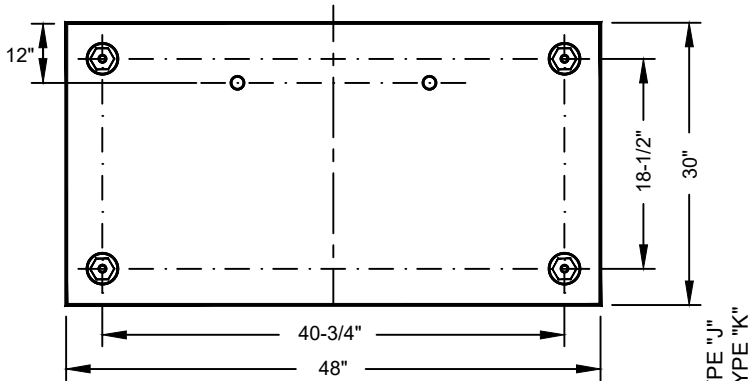
FRONT / DOOR SIDE
STREET SIDE

NOTES □

1. 3" OR 4" FIBER OR INTERCONNECT FROM TYPE 200 OR P-30 PULL BOX. REFER TO PLANS FOR INTERCONNECT/FIBER CONDUIT SIZE.
 2. 2" CONDUIT FROM SERVICE PEDESTAL.
 3. 3" CONDUITS FROM □7 TRAFFIC SIGNAL PULL BOX FOR SIGNAL POLES.
 4. □4 SINGLE STRAND BARE COPPER WIRE SEE DRAWING 725 FOR DETAILS.
 5. INSTALL CONDUITS 1" FRONT OF CENTER LINE.
- REFER TO PLANS FOR ANY ADDITIONAL CONDUITS.

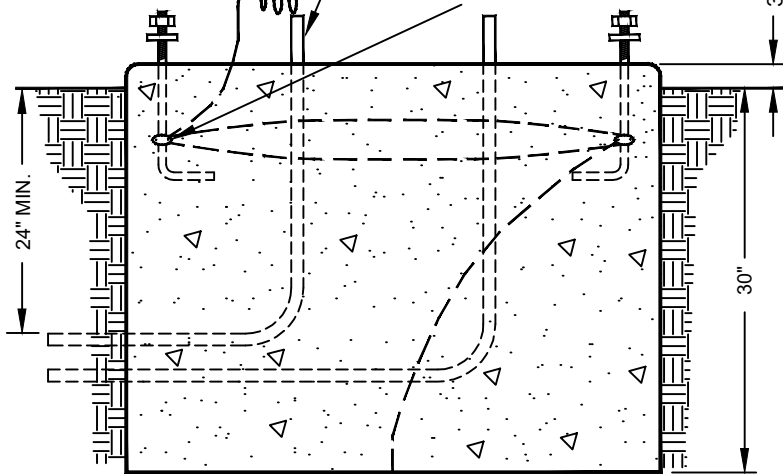
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		CABINET CONDUIT LAYOUT TYPE "J" □ "K" FOUNDATIONS						
		DATE □10-9-08	DWG. NO. 725.1					



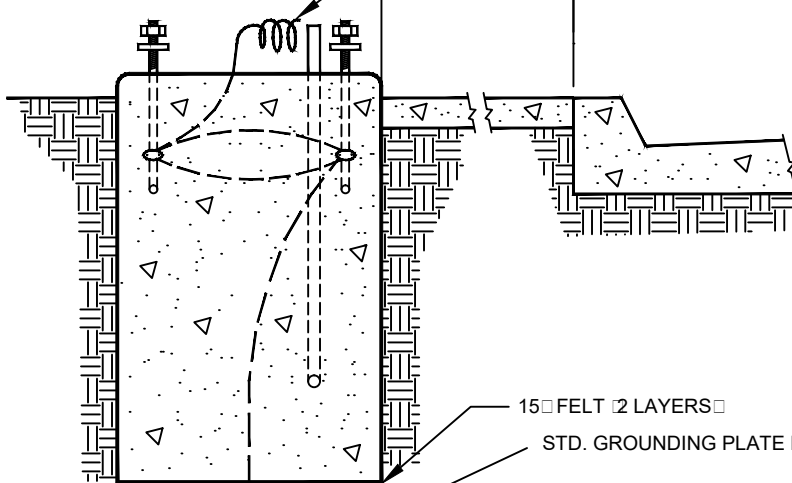
2" PVC COND. TO BE ADDED IN EVERY FDN. FOR FUTURE USE. POINT TOWARDS INTERSECTION.

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE ONE PER BOLT SEE NOTE



OF 4 AWG SINGLE STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

0" MIN. EASEMENT MAY BE NECESSARY



NOTES

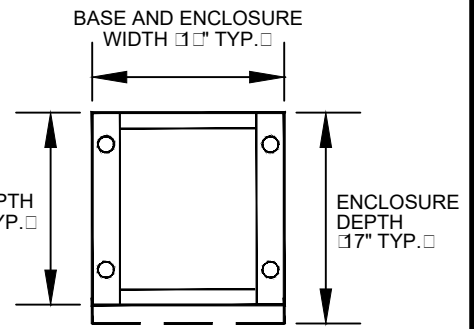
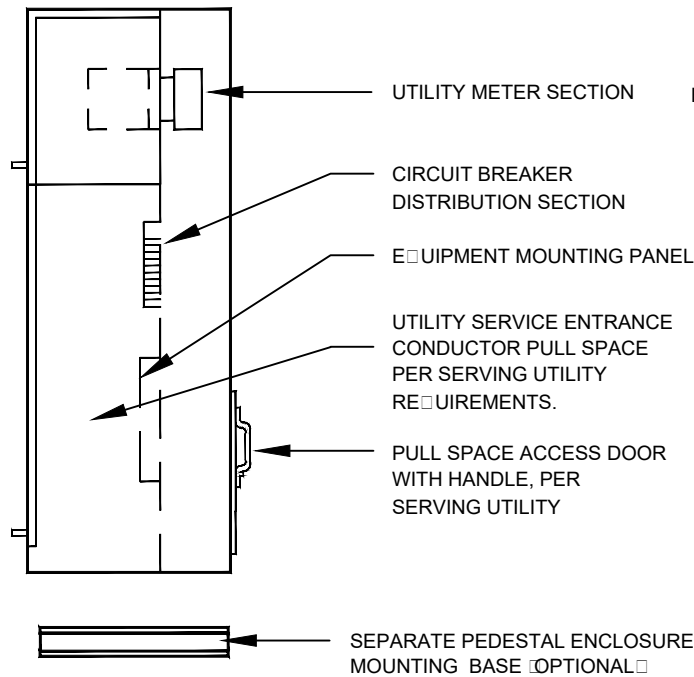
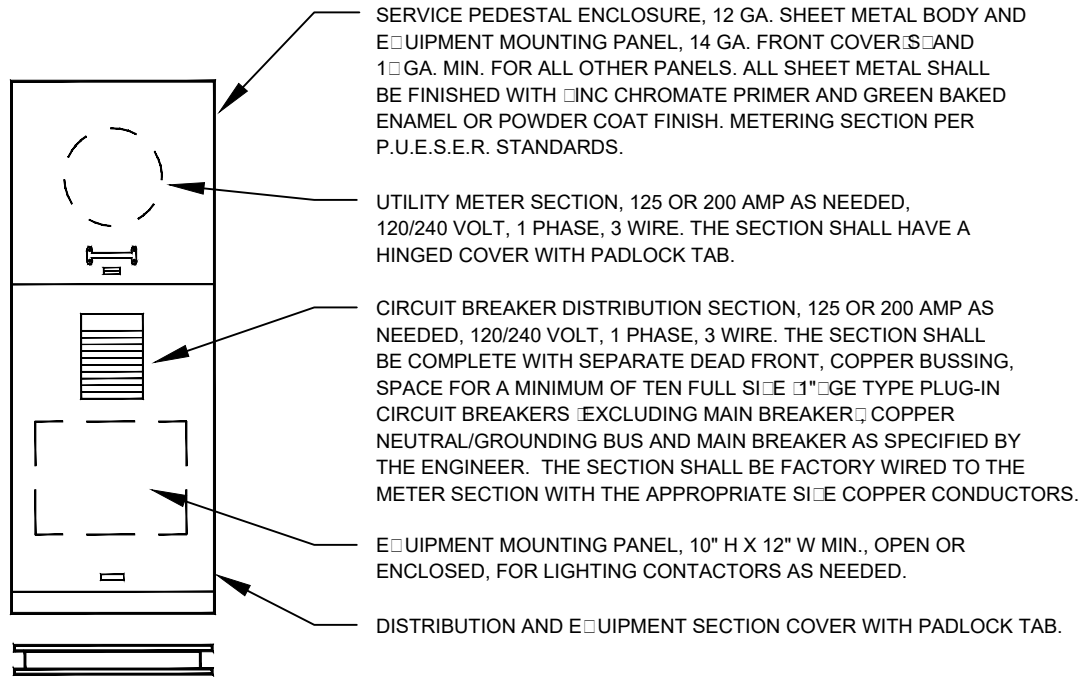
1. FOR CONDUIT SIZE, LOCATION, AND QUANTITY SEE PLANS REFER TO CONDUIT LAYOUT DRAWING 725.1 FOR DETAILS.
 2. 3/4" X 18" X 3" HOT-DIP GALVANIZED ANCHOR BOLTS. LOCATE WITH TEMPLATE.
 3. ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" MIN., 4-1/2" MAX.
 4. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 1" MIN., 4" MAX.
 5. LOCATION OF FOUNDATION MUST BE APPROVED BY ENGINEER IN FIELD.
- CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE CONNECTED TO EACH ANCHOR BOLT WITH BRONZE GROUNDING CONNECTOR BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE	
501	PORTLAND CEMENT CONCRETE
23	TRAFFIC SIGNALS STREETLIGHTING

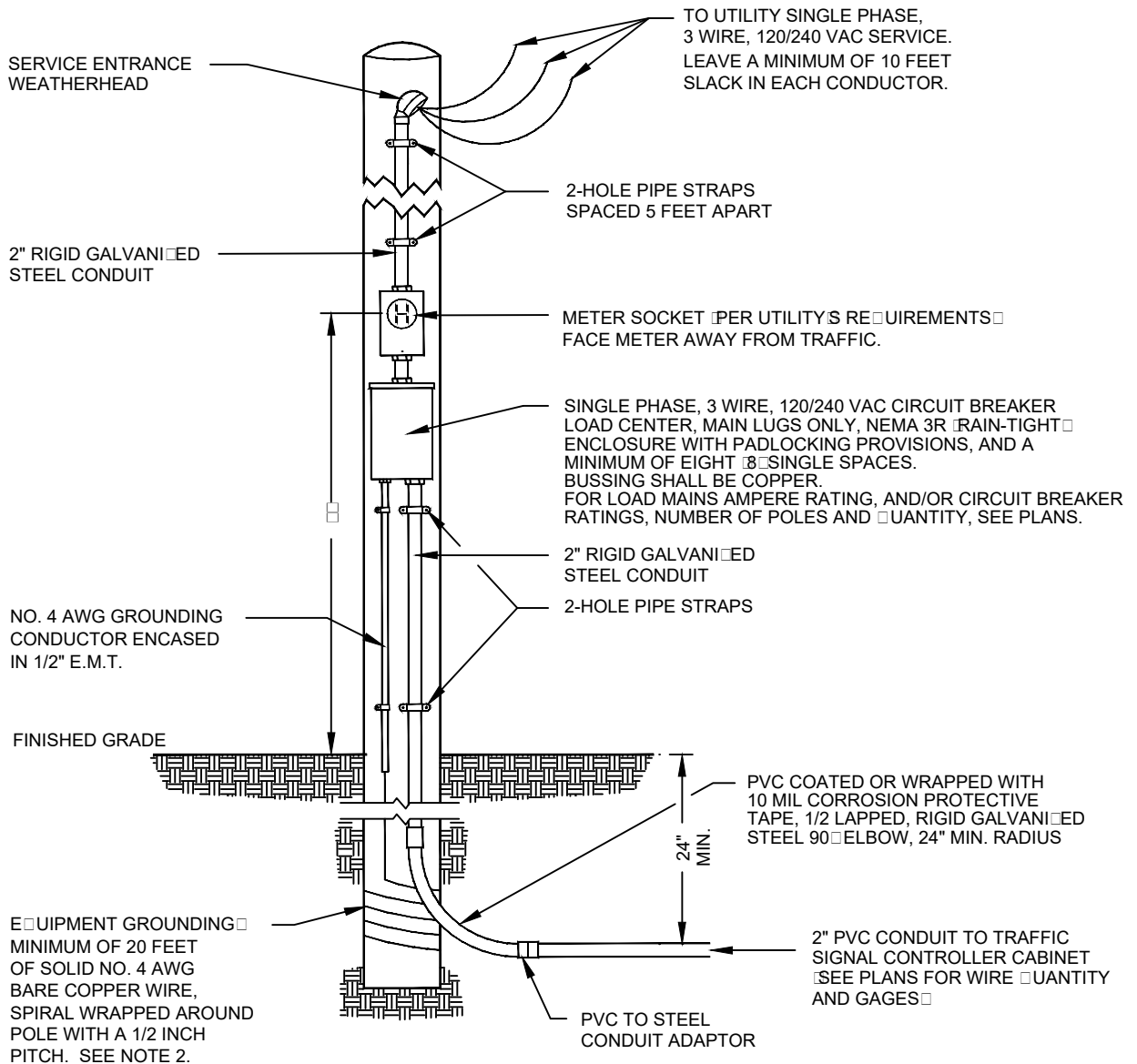
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE "J" "K" FOUNDATIONS	
DATE 10-9-08	DWG. NO. 725



TYPICAL MOUNTING BASE DETAIL
DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER

Effective 10/08/2020 to 12/09/2020

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
50	STEEL STRUCTURES	SINGLE METER SERVICE PEDESTAL						
23	TRAFFIC SIGNALS & STREETLIGHTING							
DATE	8-12-99	DWG. NO.	730					



NOTES

1. ALL WIRES TO BE COPPER SEE PLANS FOR QUANTITY AND GAGES.
2. WITH ENGINEER'S APPROVAL, AN 8 FT. BY 5/8 IN. COPPER-CLAD GROUNDING ROD MAY BE USED.
3. ALL CONDUIT FITTINGS TO BE WATER-TIGHT.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

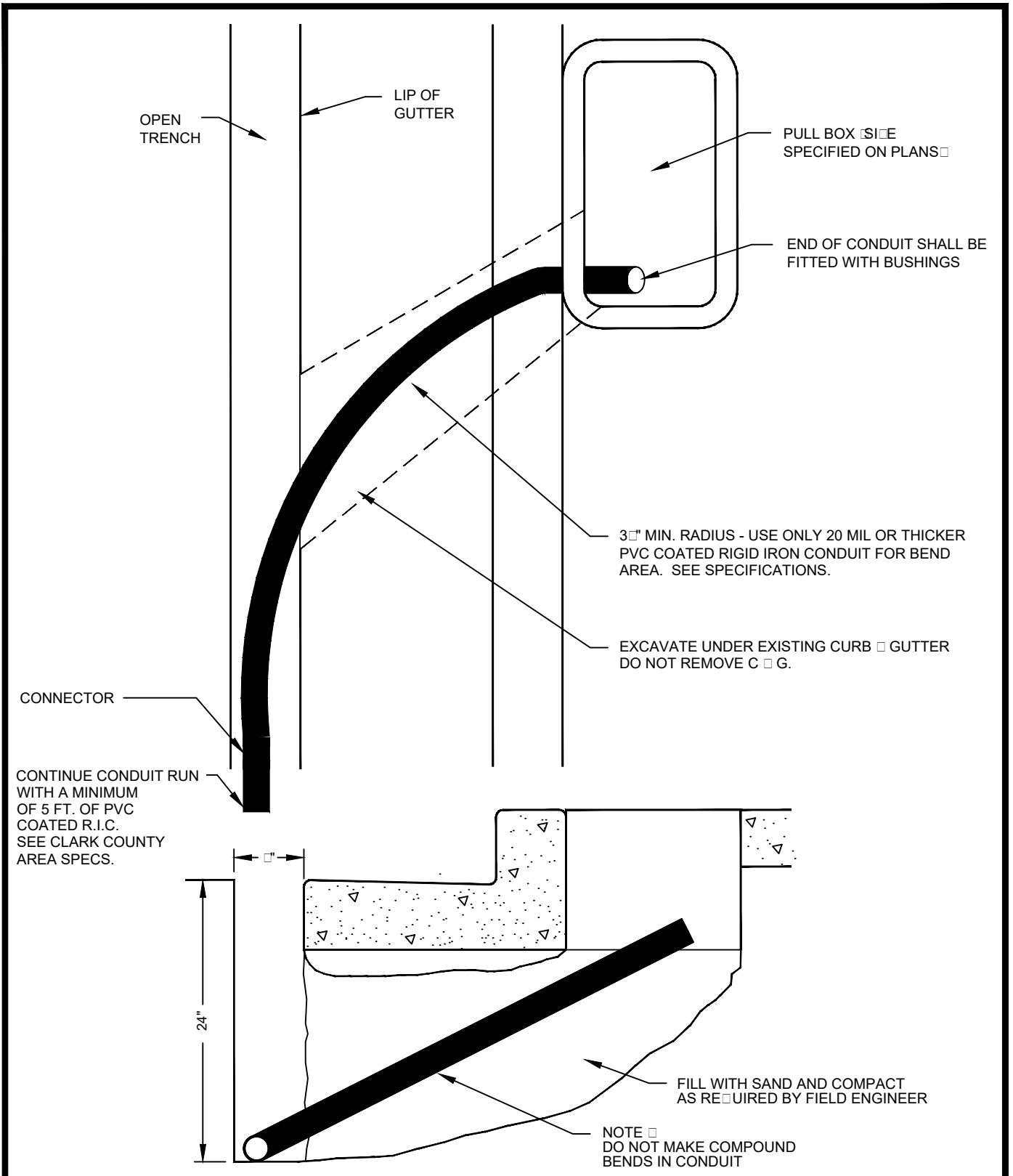
AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

120/240 VAC SERVICE
ON WOOD POLE
OVERHEAD SERVICE

DATE 12-12-9 DWG. NO. 731



AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

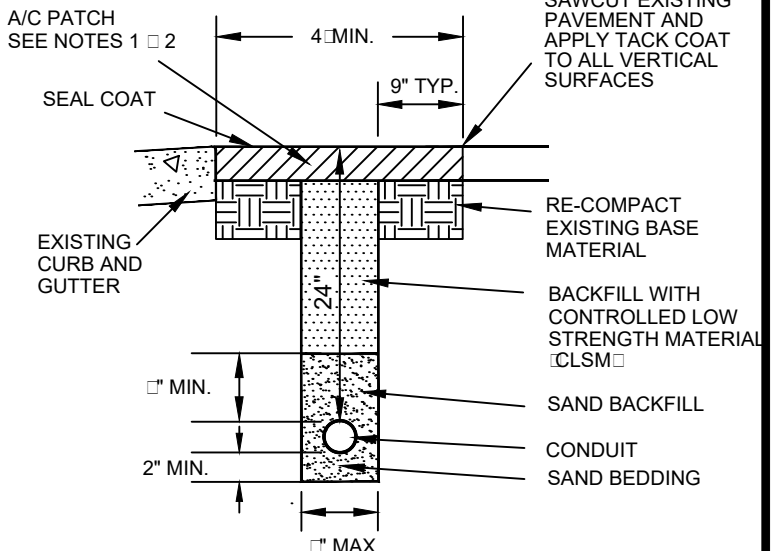
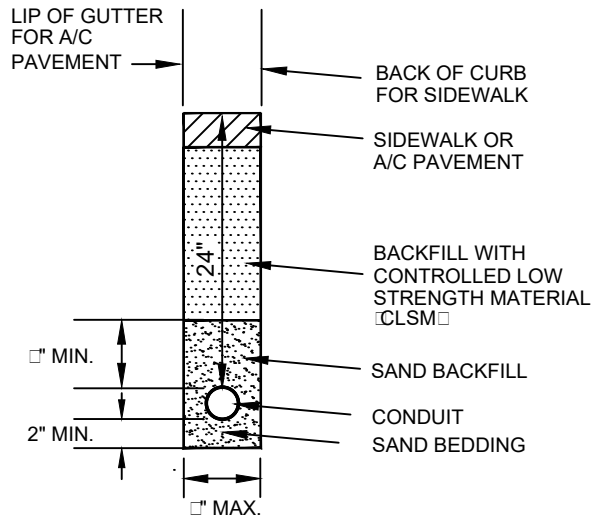
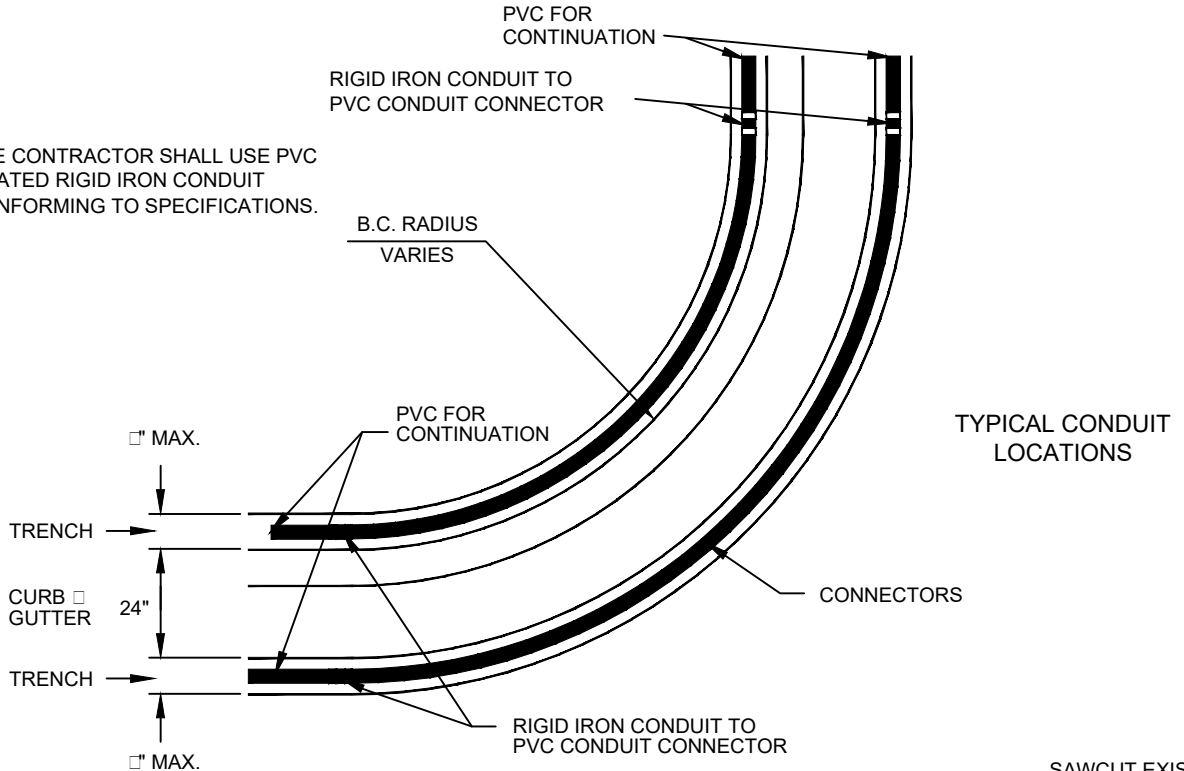
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

INSTALLATION OF CONDUIT
INTO PULL BOX FROM LIP
OF GUTTER TRENCH

DATE	DWG. NO. 732
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Effective 10/08/2020 to 12/09/2020

THE CONTRACTOR SHALL USE PVC COATED RIGID IRON CONDUIT CONFORMING TO SPECIFICATIONS.



NOTES (RETROFIT)

1. DEPTH TO MATCH EXISTING AC PAVEMENT, BUT NOT LESS THAN 4", PLACED IN MULTIPLE LIFTS OF EQUAL THICKNESS.
 2. PATCH WIDTH SHALL BE SUFFICIENT TO ACCOMMODATE MECHANICAL PLACEMENT USING AGENCY APPROVED SPREADER BOX OR PAVING MACHINE, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 401.03.11.
 3. IF SAWCUT IS WITHIN 3 FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
 4. IF 24" COVER IS NOT POSSIBLE, THEN RED CONCRETE ENCASEMENT MIN. 4" ABOVE CONDUIT REQUIRED.
 5. CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE INSTALLED TO FINAL GRADE FOR TEMPORARY PATCHING.
- () PERMANENT PATCH MIX DESIGN SHALL BE AS REQUIRED BY ENGINEER.

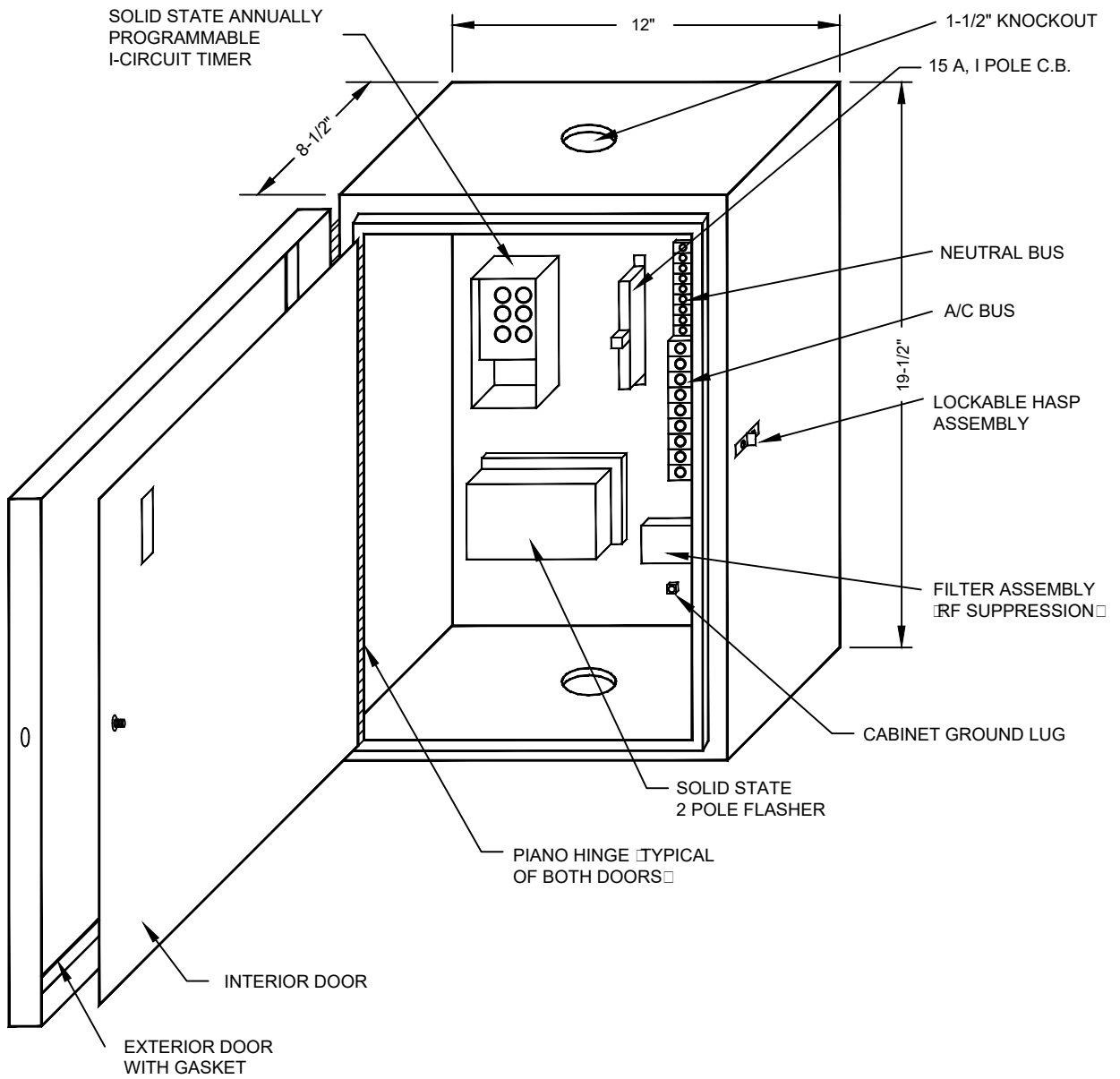
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
INSTALLATION OF CONDUIT	
DATE 5-17-01	DWG. NO. 733

Effective 10/08/2020 to 12/09/2020

FLASHING BEACON
CONTROLLER CABINET



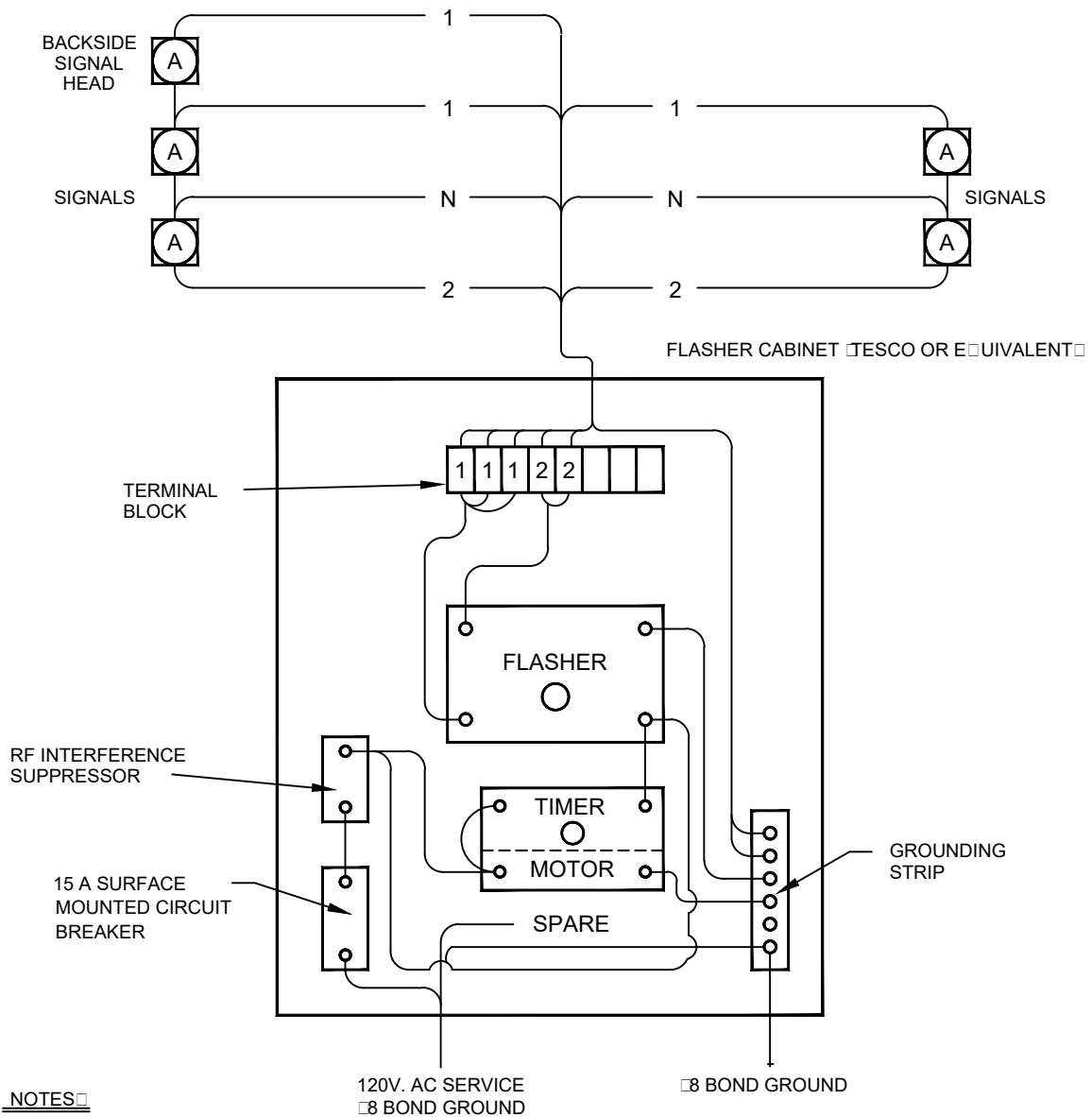
NOTES

1. CONSTRUCT FROM MINIMUM 12-GUAGE STEEL.
2. THE TIMER SHALL BE RTC-AP21 OR EQUIVALENT.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	FLASHING BEACON CONTROLLER CABINET						
DATE	12-12-9	DWG. NO.	741				

**WIRING DIAGRAM FOR FLASHING BEACON
TIMER CONTROLLED OPERATION**



NOTES

1. ALL WIRING INSIDE THE CABINET SHALL BE #14 THW.
2. ALL FIELD WIRE TO THE SIGNAL SHALL BE #14 SOLID COPPER.
3. THE SERVICE WIRE SHALL BE 2-#4 THW OR 1-#2 THW. PROVIDE #10 PIGTAIL FOR CONNECTION TO BREAKER.
4. THE TIMER SHALL BE RTC-AP21 OR EQUIVALENT.
5. TWO POLE SOLID STATE FLASHER.
6. THERE SHALL BE A 1" MINIMUM CLEARANCE BETWEEN INDIVIDUAL COMPONENTS.
7. ALL SERVICE POINTS SHALL BE AS FOR STREET LIGHTING.
8. FLASHING PATTERN OF LIGHTS TO BE SPECIFIED BY THE ENTITY.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

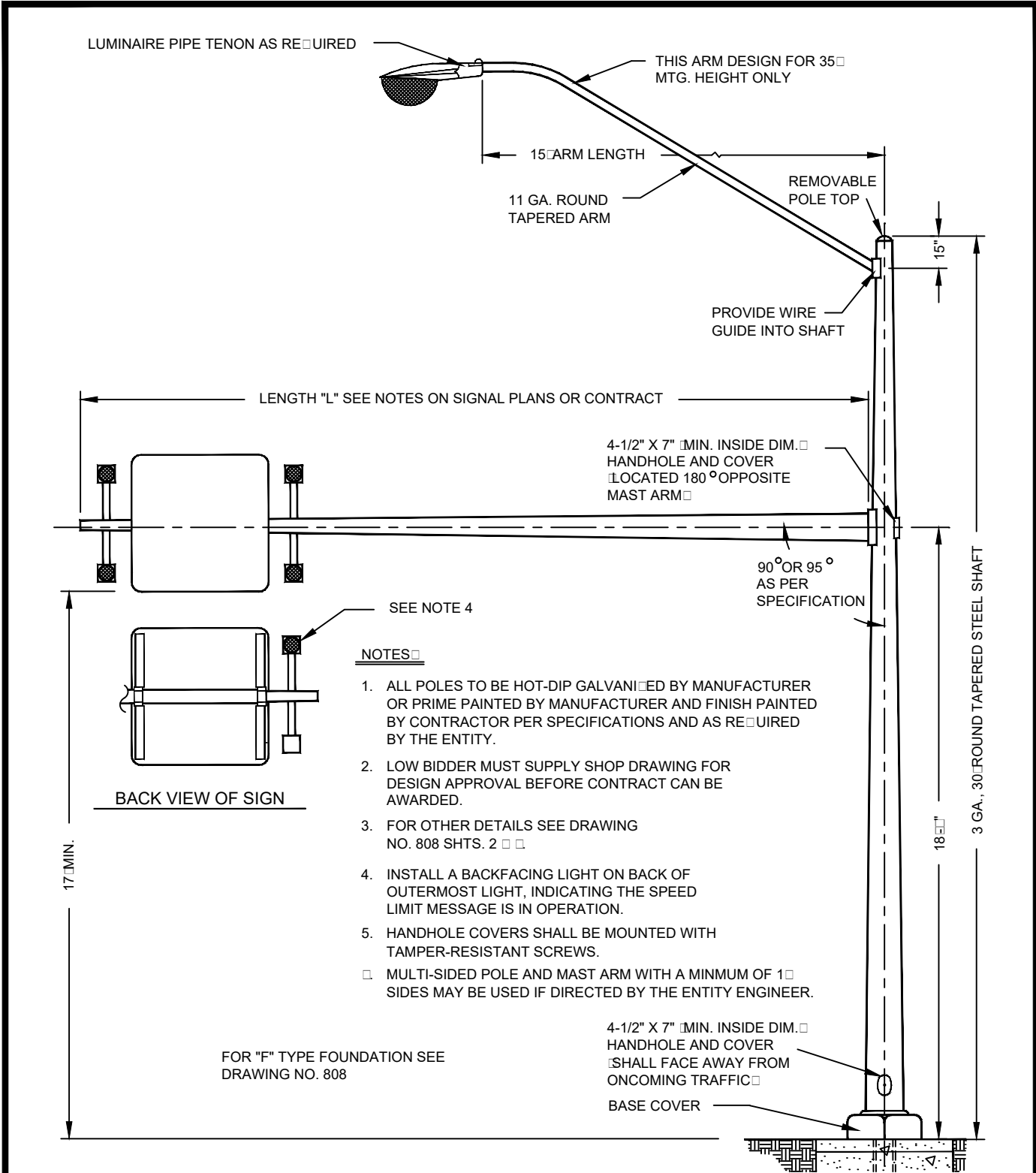
AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

**WIRING DIAGRAM FOR FLASHING BEACON
TIMER CONTROLLED OPERATION**

DATE 12-12-9 DWG. NO. 742



NOTES

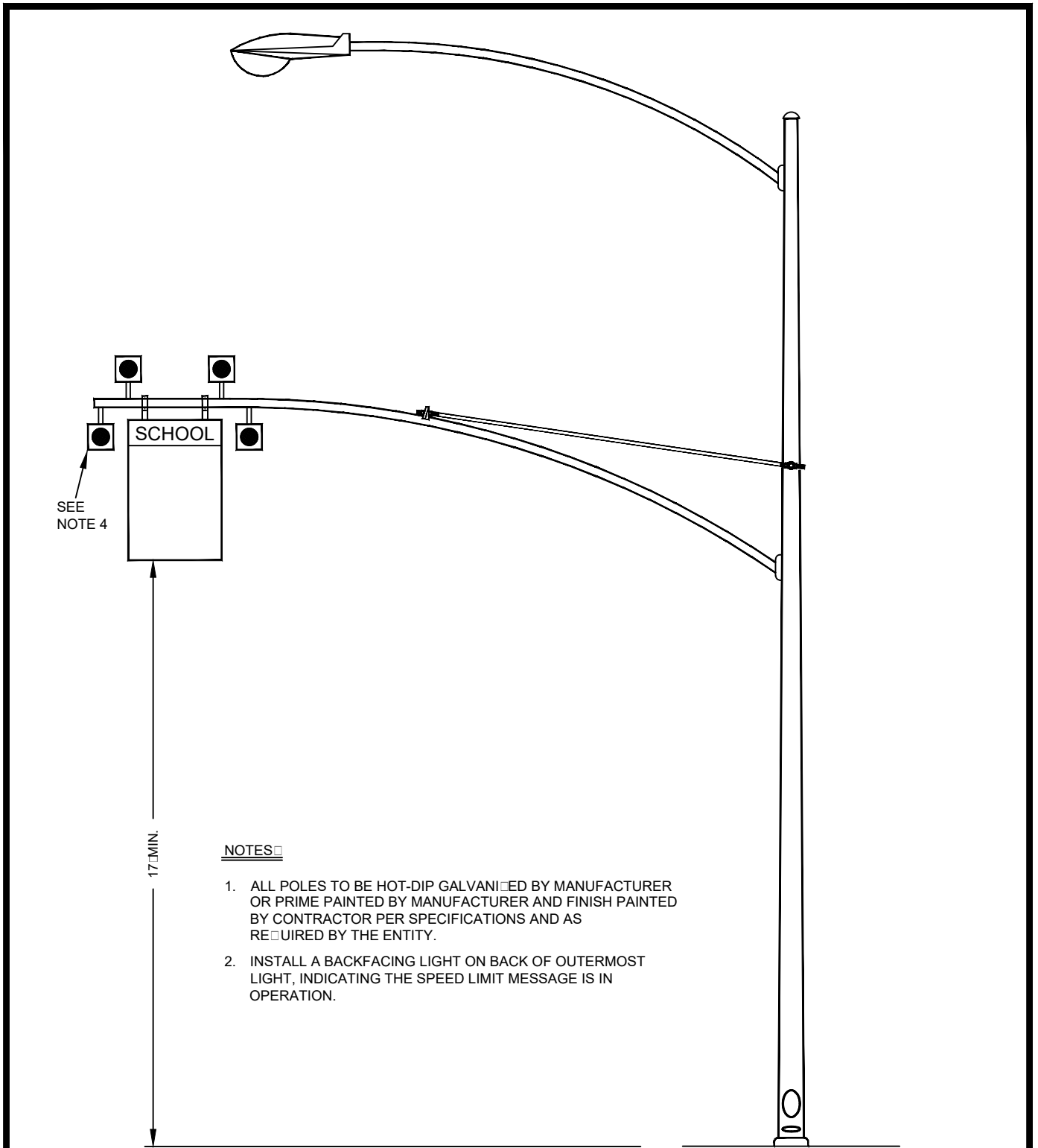
1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
 2. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
 3. FOR OTHER DETAILS SEE DRAWING NO. 808 SHTS. 2 & 3
 4. INSTALL A BACKFACING LIGHT ON BACK OF OUTERMOST LIGHT, INDICATING THE SPEED LIMIT MESSAGE IS IN OPERATION.
 5. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
- MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 1 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR "F" TYPE FOUNDATION SEE DRAWING NO. 808

4-1/2" X 7" MIN. INSIDE DIM. HANDHOLE AND COVER SHALL FACE AWAY FROM ONCOMING TRAFFIC
 BASE COVER

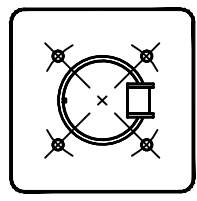
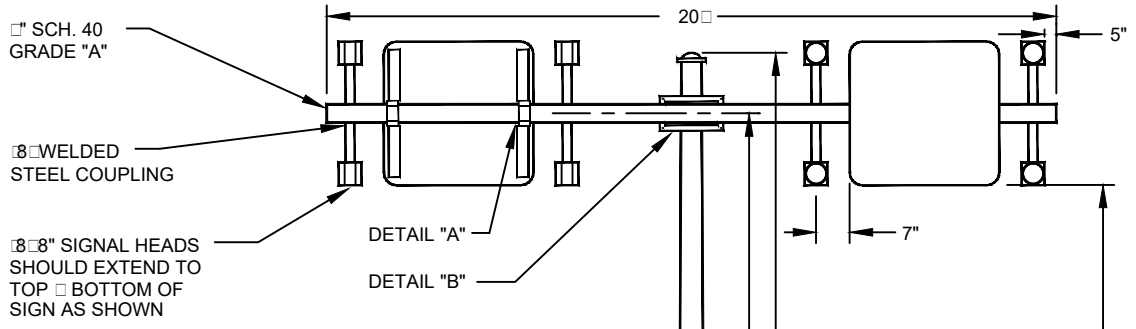
	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	SCHOOL FLASHING SIGN ON POLE WITH LUMINAIRE						
DATE	9-14-0	DWG. NO.	743	SHEET	1 OF 2		

Effective 10/08/2020 to 12/09/2020

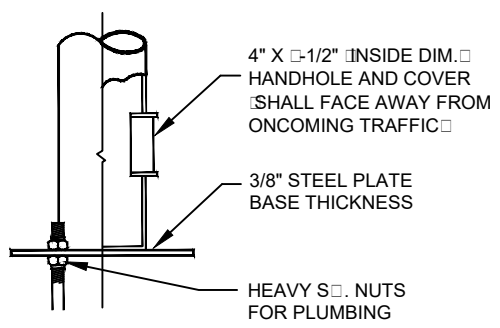


Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
		SCHOOL FLASHING SIGN ON TYPE III POLE											
		DATE 12-12-9	DWG. NO.	743	SHEET	2 OF 2							

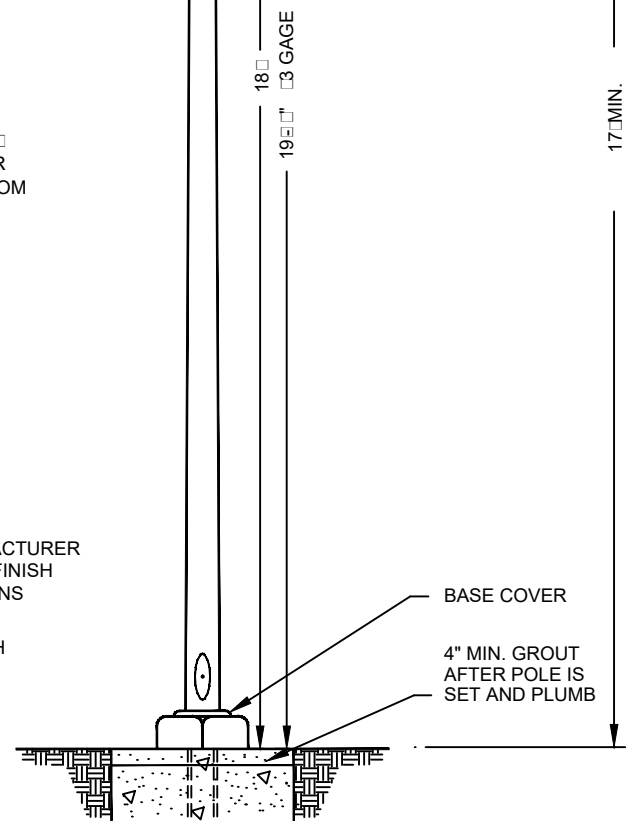


PLAN OF BASE



NOTES

1. DRILL 1" HOLES IN STEEL PIPE WHERE 1-1/2" STEEL COUPLINGS ARE TO BE.
2. POLE TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

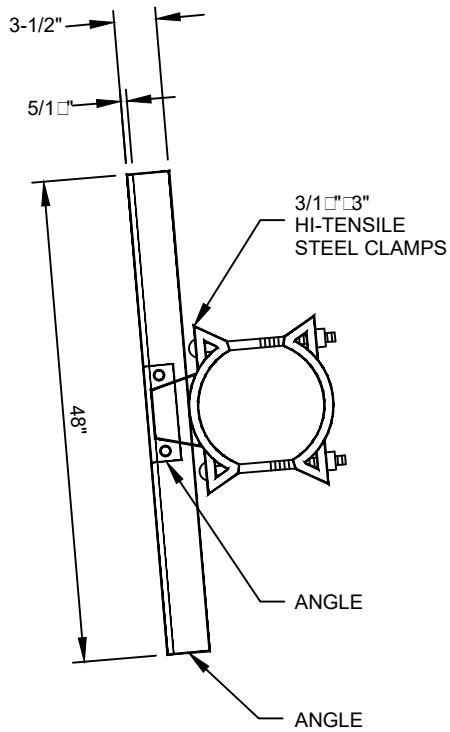


FOR TYPE "G" FOUNDATION SEE DRAWING NO. 720

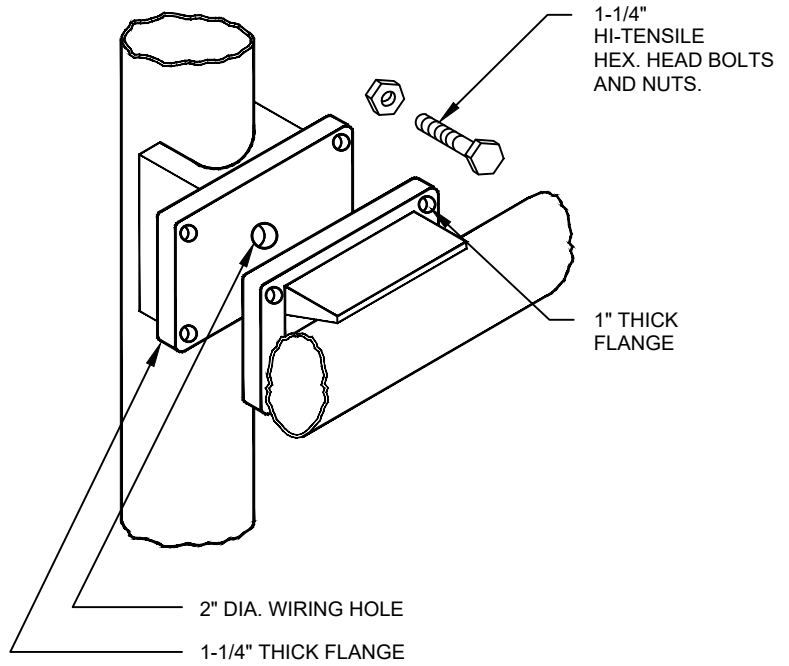
AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SIGN POST WITH SCHOOL SIGN MOUNTED						
DATE 12-12-9	DWG. NO.	744	SHEET	1 OF 2		

Effective 10/08/2020 to 12/09/2020

Effective 10/08/2020 to 12/09/2020

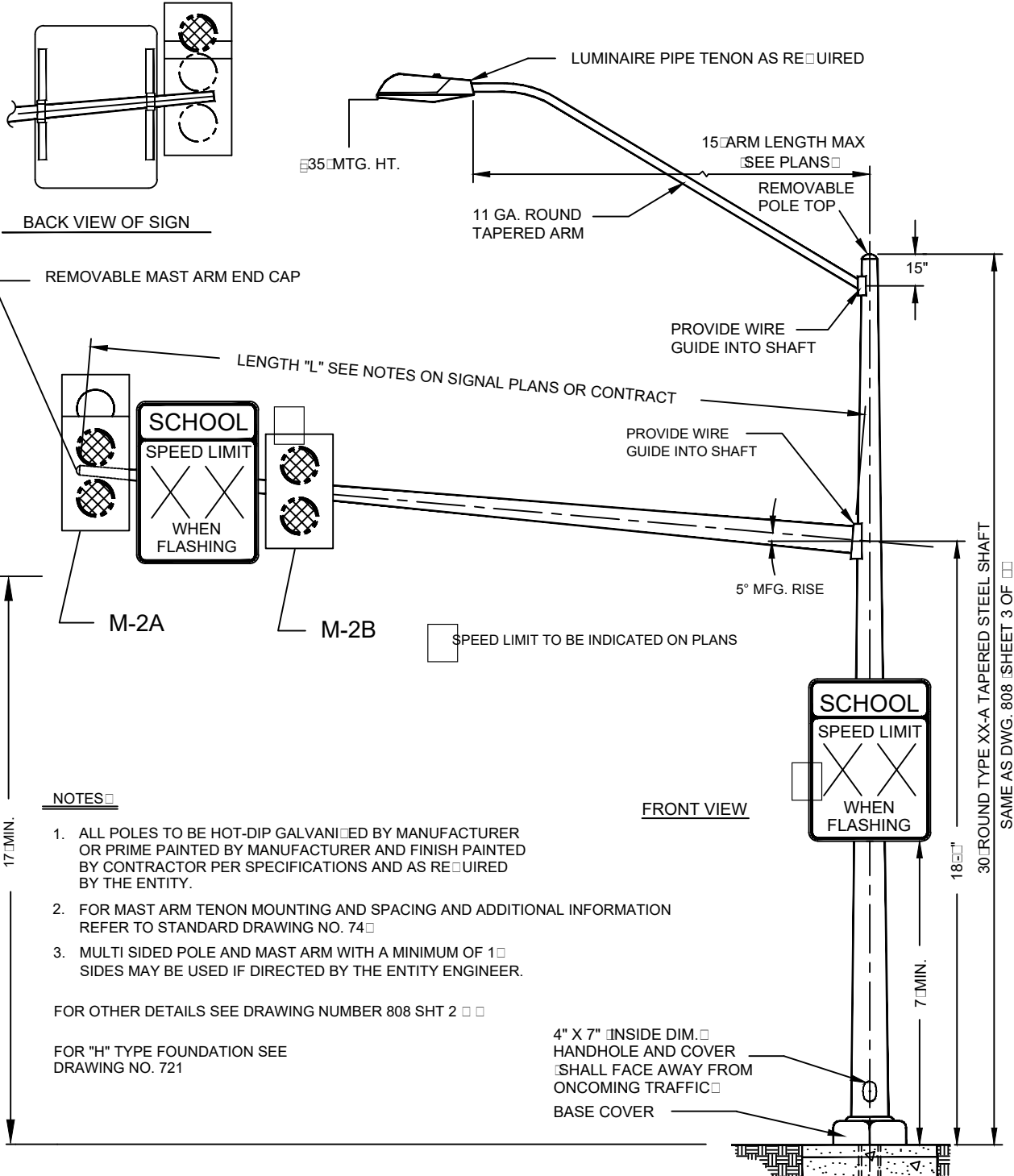


DETAIL A



DETAIL B

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SIGN POST WITH SCHOOL SIGN MOUNTED DETAILS						
DATE	DWG. NO.	744	SHEET		2 OF 2			



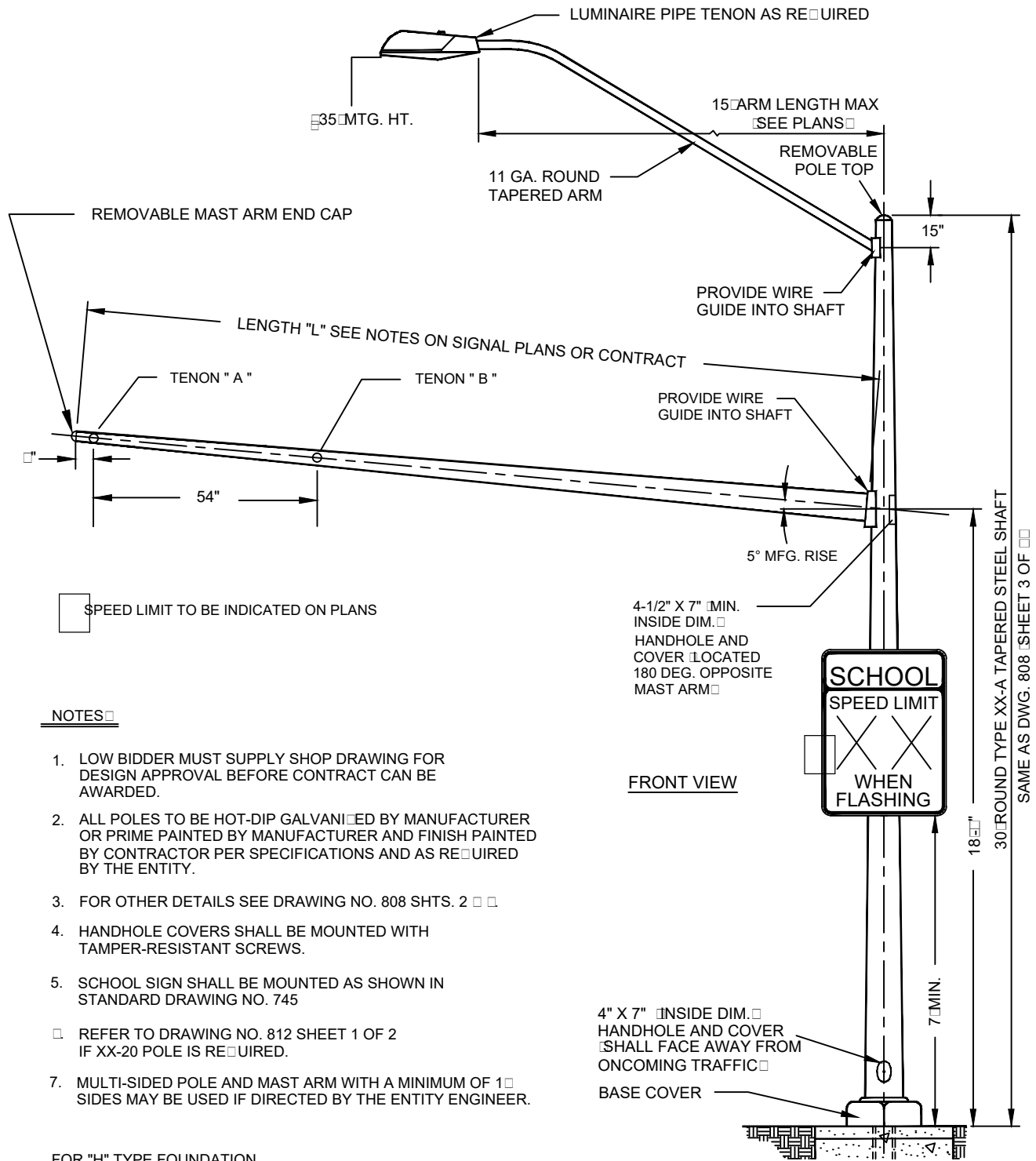
NOTES

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
 2. FOR MAST ARM TENON MOUNTING AND SPACING AND ADDITIONAL INFORMATION REFER TO STANDARD DRAWING NO. 74
 3. MULTI SIDED POLE AND MAST ARM WITH A MINIMUM OF 4 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.
- FOR OTHER DETAILS SEE DRAWING NUMBER 808 SHT 2
- FOR "H" TYPE FOUNDATION SEE DRAWING NO. 721

IN THE CITY OF NORTH LAS VEGAS, USE ONLY XX-A POLE DWG. 808 SHT 3
 FOR "L" FOUNDATION SEE DWG. 722

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
30 FT. POLE WITH SCHOOL FLASHING SIGN						
DATE	9-14-0	DWG. NO.	745			

Effective 10/08/2020 to 12/09/2020



NOTES

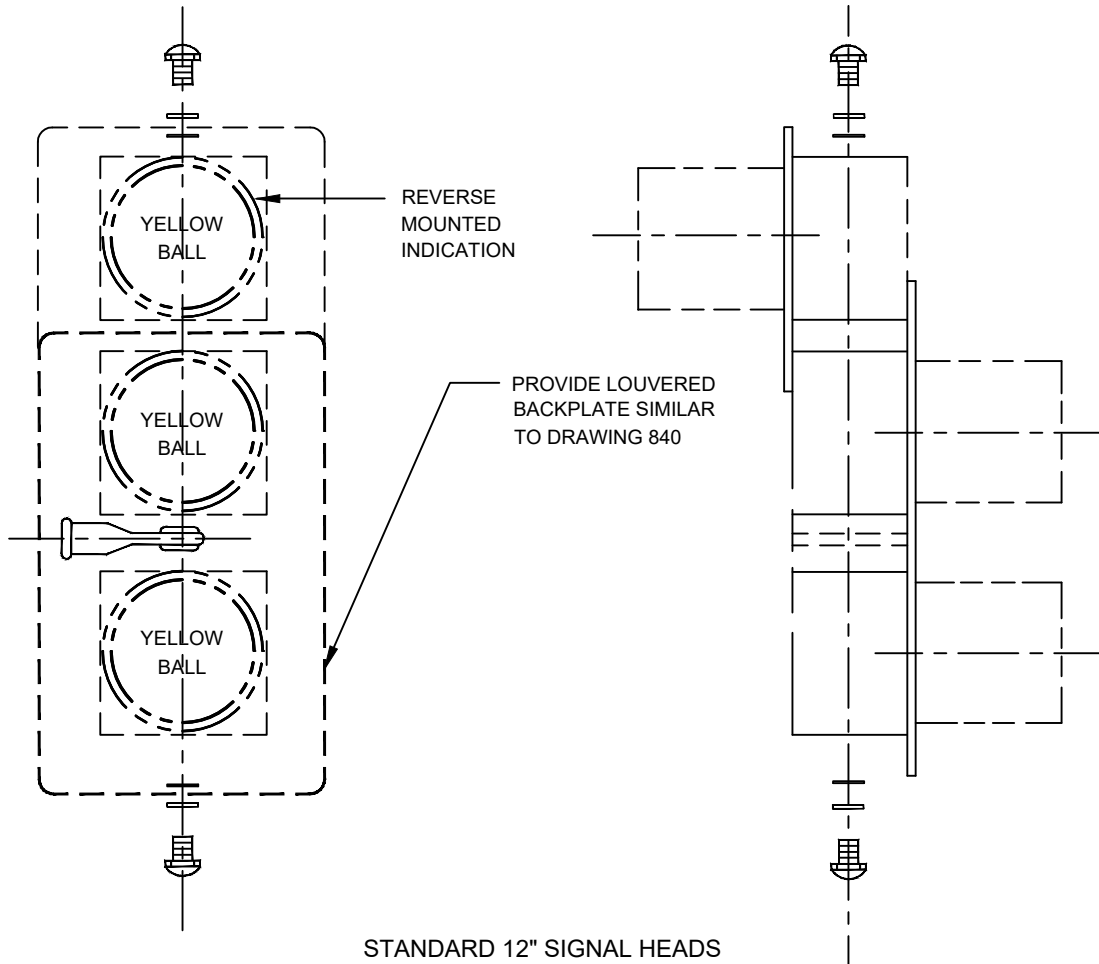
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. FOR OTHER DETAILS SEE DRAWING NO. 808 SHTS. 2
4. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
5. SCHOOL SIGN SHALL BE MOUNTED AS SHOWN IN STANDARD DRAWING NO. 745
6. REFER TO DRAWING NO. 812 SHEET 1 OF 2 IF XX-20 POLE IS REQUIRED.
7. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 1 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR "H" TYPE FOUNDATION
DRAWING NO. 721

IN THE CITY OF NORTH LAS VEGAS, USE ONLY XX-A POLE DWG.808 SHT 3
FOR "L" FOUNDATION SEE DWG.722

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
SCHOOL SIGN POLE TYPE XX-A							
DATE	04-12-07	DWG. NO.	74				

Effective 10/08/2020 to 12/09/2020



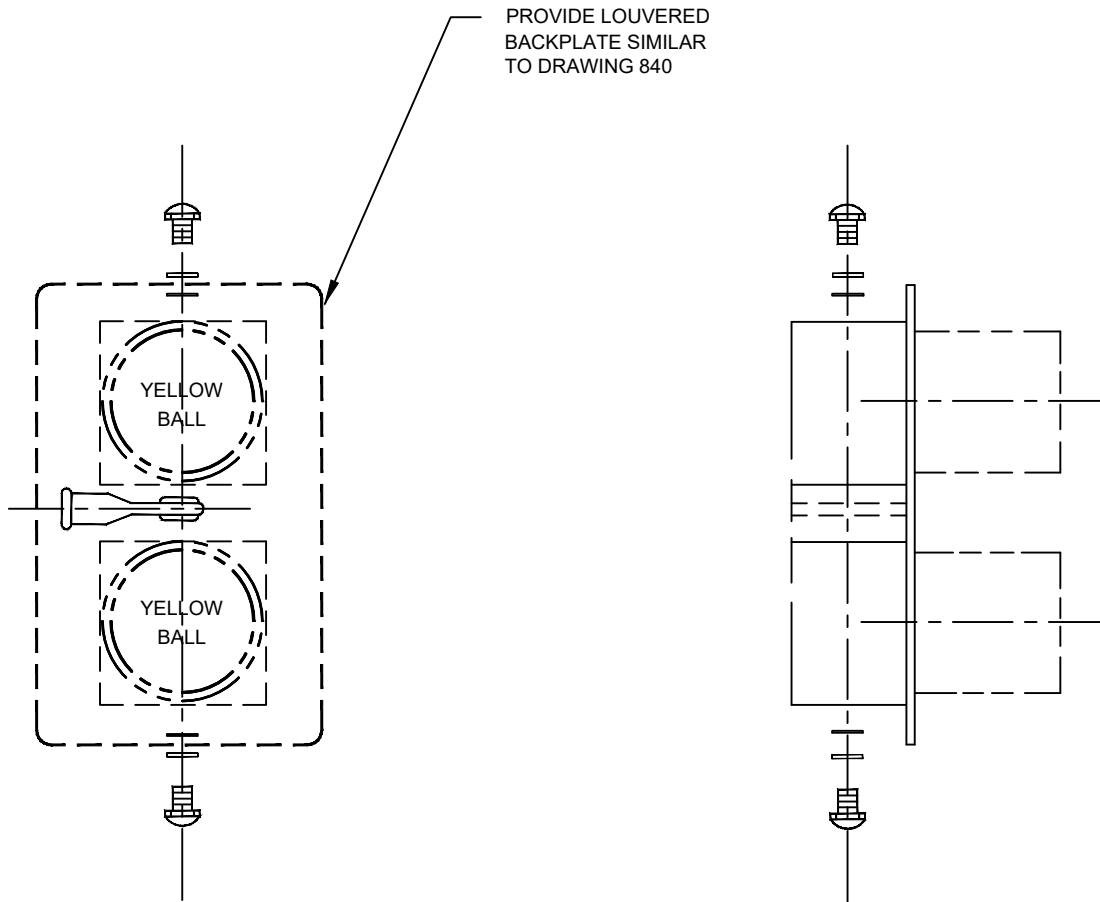
STANDARD 12" SIGNAL HEADS
M-2A

NOTES

1. ALL INDICATIONS ARE TO BE YELLOW LED BALLS.
2. ALL M-2A INDICATIONS ARE 12" NOMINAL.
3. CIRCULAR VISORS TO BE INSTALLED ON ALL HEADS.
4. SEE SIGNAL PLANS FOR MAST ARM TENON LOCATIONS.
5. THIS HEAD ASSEMBLY SHALL BE USED ONLY ON THE END OF THE MAST ARM.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SCHOOL FLASHER MAST ARM SIGNAL ASSEMBLIES M-2A						
DATE	3-10-05	DWG. NO.	747			SHEET	1 OF 2	



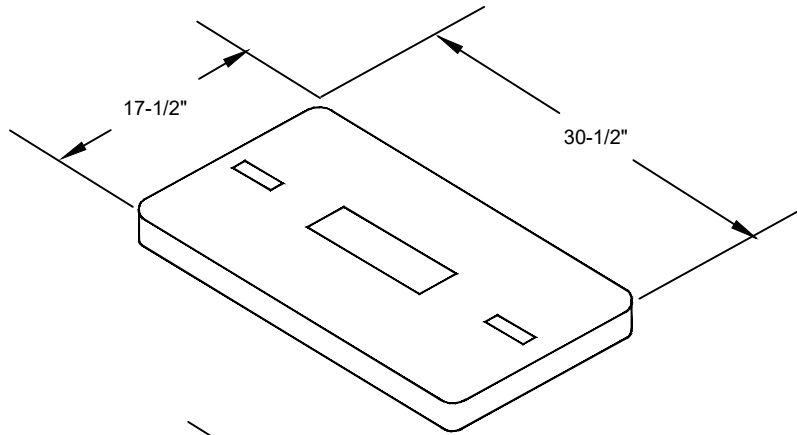
STANDARD 12" SIGNAL HEADS
M-2B

NOTES □

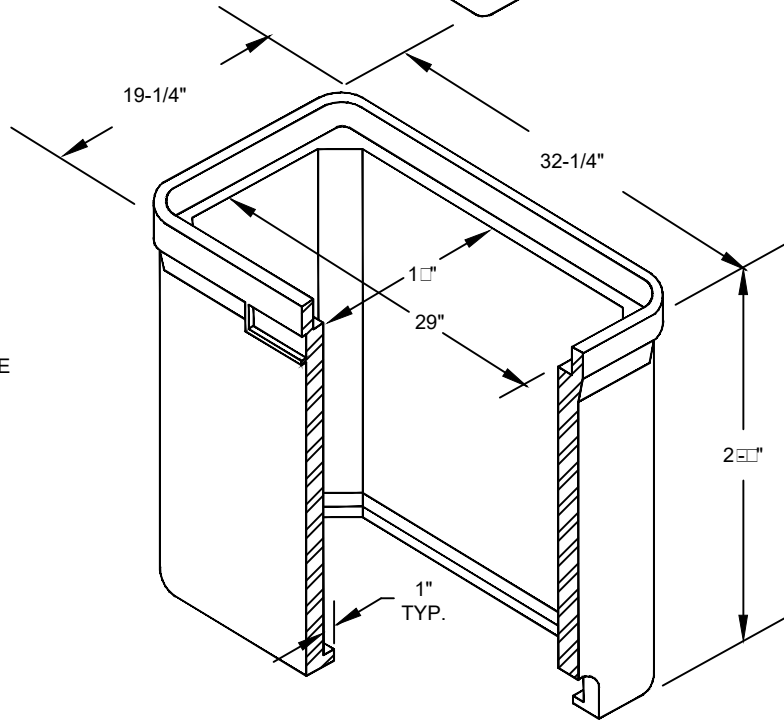
1. ALL INDICATIONS ARE TO BE YELLOW LED BALLS.
2. ALL M-2B INDICATIONS ARE 12" NOMINAL.
3. CIRCULAR VISORS TO BE INSTALLED ON ALL HEADS.
4. SEE SIGNAL PLANS FOR MAST ARM TENON LOCATIONS.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SCHOOL FLASHER MAST ARM SIGNAL ASSEMBLIES M-2B						
		DATE 3-10-05	DWG. NO. 747			SHEET 2 OF 2		



REINFORCED POLYMER
CONCRETE COVER
MARKED "FIBER OPTIC"



POLYMER COMPOSITE
BODY

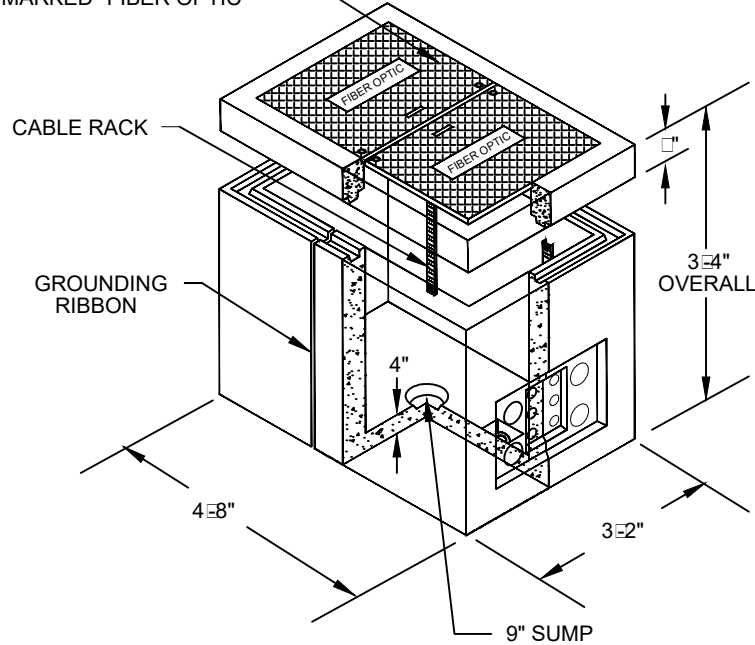
NOTES

1. THIS PULL BOX SHALL NOT BE USED IN TRAVEL OR PARKING LANES
2. TAPERED SIDE WALLS ARE ALLOWED.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	"P30" PULLBOX						
	FOR USE IN INTERCONNECT AND COMMUNICATIONS INSTALLATIONS						
	DATE 07-01-14	DWG. NO.		701			

ADJUSTABLE TORSION
SPRING ASSISTED STEEL
COVER MARKED "FIBER OPTIC"



PRECAST CONCRETE
MATERIAL

NOTES

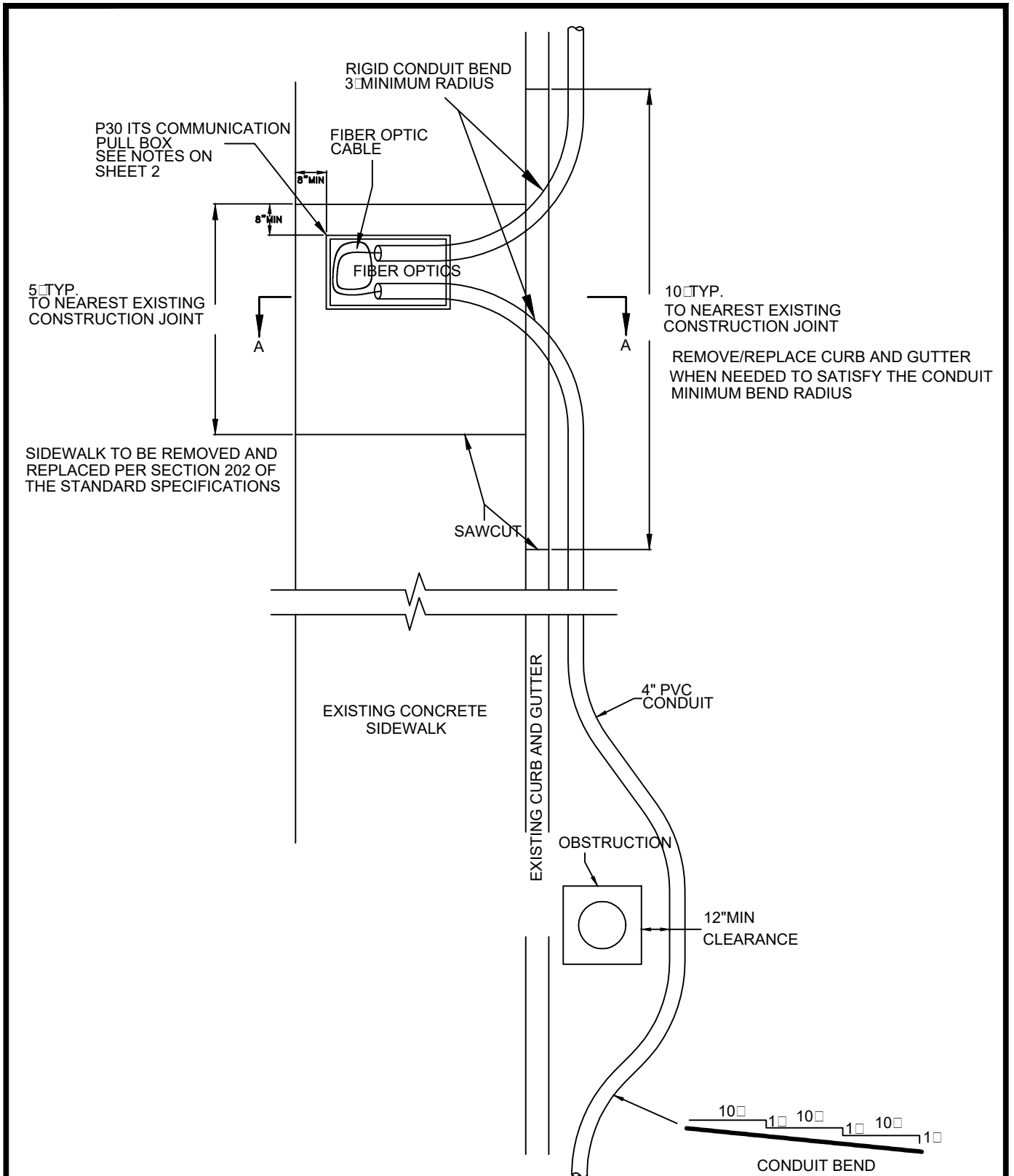
1. DESIGN LOAD - H-20 WHEEL LOADINGS.
2. SUITABLE FOR USE IN OFF STREET LOCATIONS WHERE NOT SUBJECT TO HIGH DENSITY TRAFFIC. IT SHALL NOT BE USED IN TRAVEL OR PARKING LANES.
3. INSIDE DIMENSIONS - 30"X48"X3"
4. FOR USE AT FIBER OPTIC SPLICE POINTS.

TYPE 200 VAULT

Effective 10/08/2020 to 12/09/2020

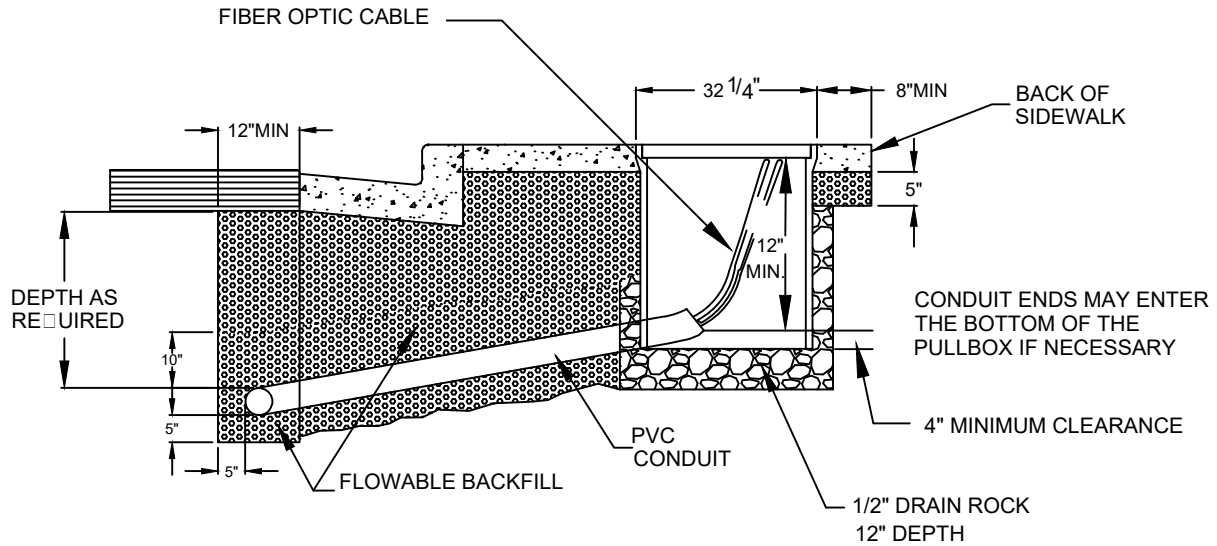
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPE 200 VAULT FOR USE AT FIBER OPTIC SPLICE POINTS						
		DATE	3-13-08	DWG. NO.	702			

Effective 10/08/2020 to 12/09/2020



	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	ITS COMMUNICATION CONDUIT AND PULL BOX DETAIL FOR EXISTING CURB GUTTER						
	DATE 3-13-08	DWG. NO. 73	SHEET 1 OF 2				

PULL BOX MAY ALSO BE PLACED NEAR THE BACK OF CURB WITH A MIN. 8" CLEARANCE



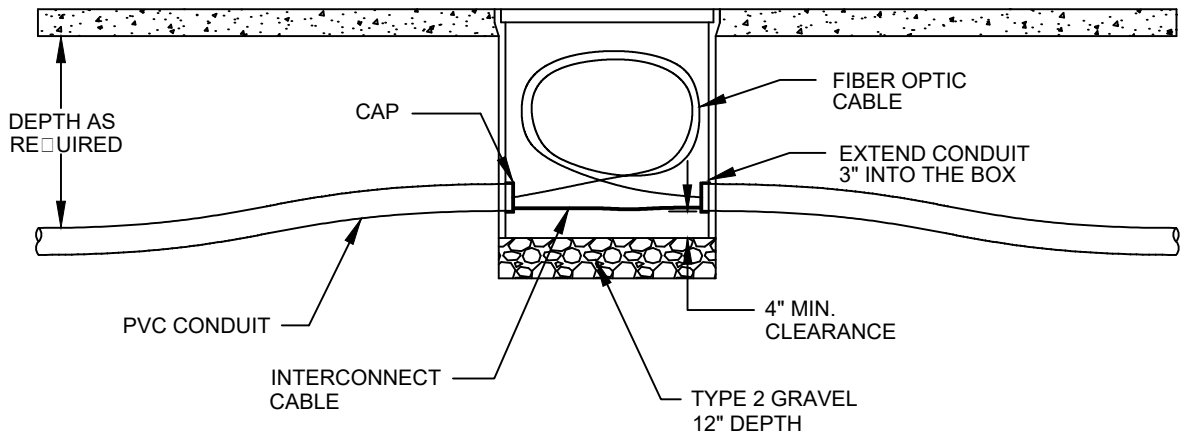
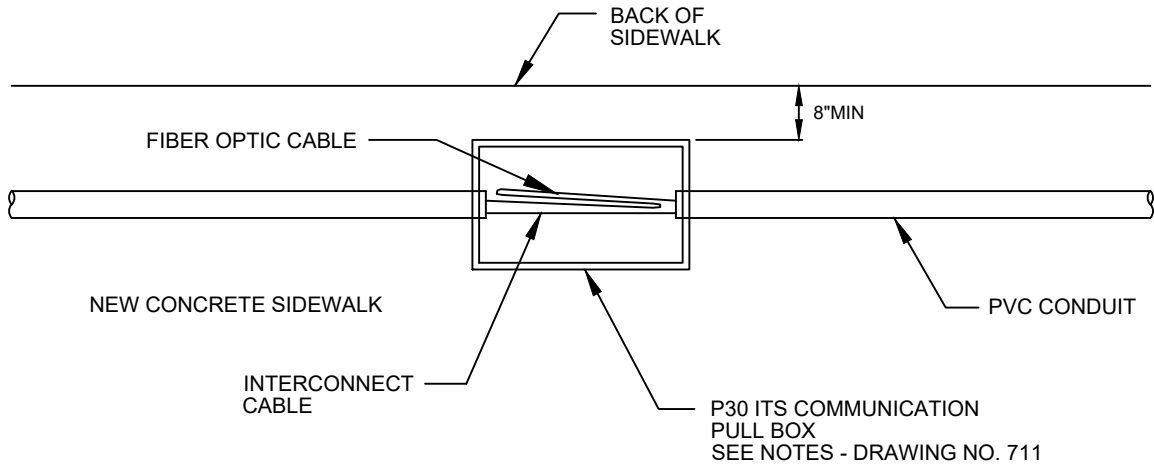
SECTION A-A

NOTES

- 1 P30 PULL BOX SHALL BE INSTALLED FOR THE TRAFFIC SIGNAL ITS COMMUNICATIONS PER APPLICABLE STANDARDS.
- 2 PULL BOX COVER SHALL BE INSCRIBED "FIBER OPTICS".
- 3 APPROXIMATE LOCATIONS OF THE PROPOSED P30 ITS COMMUNICATION PULL BOXES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE LOCATIONS OF THE PROPOSED ITS COMMUNICATION PULL BOXES IN THE FIELD PER STANDARD STANDARD SPECIFICATION INTERVALS AND THESE LOCATIONS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER BEFORE INSTALLATION.
- 4 DETAIL SHOWS METHOD OF INSTALLATION WHEN FIBER OPTIC CABLE IS REQUIRED.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		ITS COMMUNICATION CONDUIT AND PULL BOX DETAIL FOR EXISTING CURB GUTTER						
		DATE 3-13-08	DWG. NO. 73			SHEET 2 OF 2		



AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ITS COMMUNICATION CONDUIT
AND PULL BOX DETAIL
INSTALLED UNDER NEW SIDEWALK

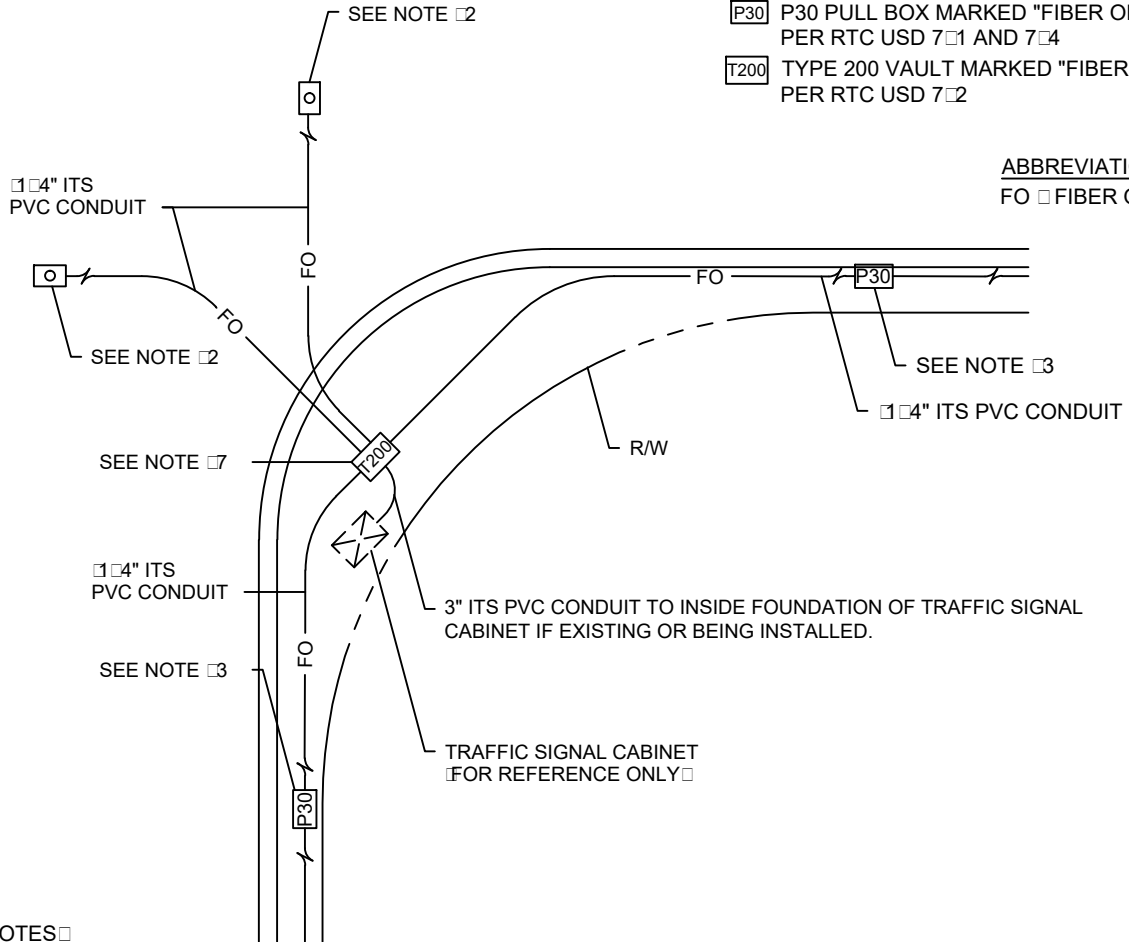
DATE 3-13-08	DWG. NO. 714
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Effective 10/08/2020 to 12/09/2020

LEGEND

- NO. 3-1/2 PULL BOX MARKED "FIBER OPTIC" PER RTC USD 705
- P30 PULL BOX MARKED "FIBER OPTIC" PER RTC USD 701 AND 704
- TYPE 200 VAULT MARKED "FIBER OPTIC" PER RTC USD 702

ABBREVIATIONS
FO FIBER OPTIC



NOTES

1. ALL ITS CONDUITS SHALL HAVE A PAIR, REA-PE39 22 AWG TWISTED WIRE PAIR CABLE INSTALLED.
2. ANY EXISTING ITS CONDUITS FROM THE OPPOSING SIDE OF THE STREET SHALL BE CONNECTED TO PROPOSED CONDUITS USING THE SAME SIZE CONDUIT. IF UNDERGROUNDS DO NOT EXIST, THEN PROPOSED CONDUITS SHALL BE EXTENDED 5' PAST THE EXISTING OR PROPOSED EDGE OF PAVEMENT TO A 3-1/2 PULL BOX MARKED "FIBER OPTIC".
3. FIBER OPTIC CONDUIT SHALL BE INSTALLED WITH P30 PULL BOXES PLACED AT A MAXIMUM SPACING OF 1000' BUT SHALL NOT BE INSTALLED WITHIN 5' OF THE POINT OF CURVATURE (PC) OF THE R/W RADIUS, IN SIDEWALK RAMPS OR DRIVEWAYS. THE ITS CONDUITS SHALL BE CONNECTED TO THE EXISTING ITS CONDUITS OR, IF NOT EXISTING, AN ADDITIONAL P30 PULL BOX SHALL BE INSTALLED AT THE PROPOSED DEVELOPMENT'S PROPERTY LINE.
4. ALL CONDUIT BENDS SHALL BE PVC COATED RIGID A MINIMUM RADIUS OF 3' INCHES.
5. ALL ITS PULL BOXES SHALL HAVE A POLYMER COMPOSITE BODY RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "FIBER OPTIC".
- UNDERGROUND ORANGE MARKING TAPE SHALL BE PLACED 12 INCHES ABOVE THE INSTALLED CONDUIT AND MARKED WITH THE LEGEND "FIBER OPTIC".
7. IF TRAFFIC SIGNAL CABINET EXISTS OR IS BEING INSTALLED ON CORNER, INSTALL TYPE 200 VAULT PER 702 AND 889 WITH ITS CONDUIT INTO TRAFFIC SIGNAL CABINET. IF TRAFFIC SIGNAL CABINET DOES NOT EXIST OR IS NOT BEING INSTALLED IN CORNER, INSTALL P30 PULL BOX.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
<input type="checkbox"/> 23	TRAFFIC SIGNAL <input type="checkbox"/> STREET LIGHTING

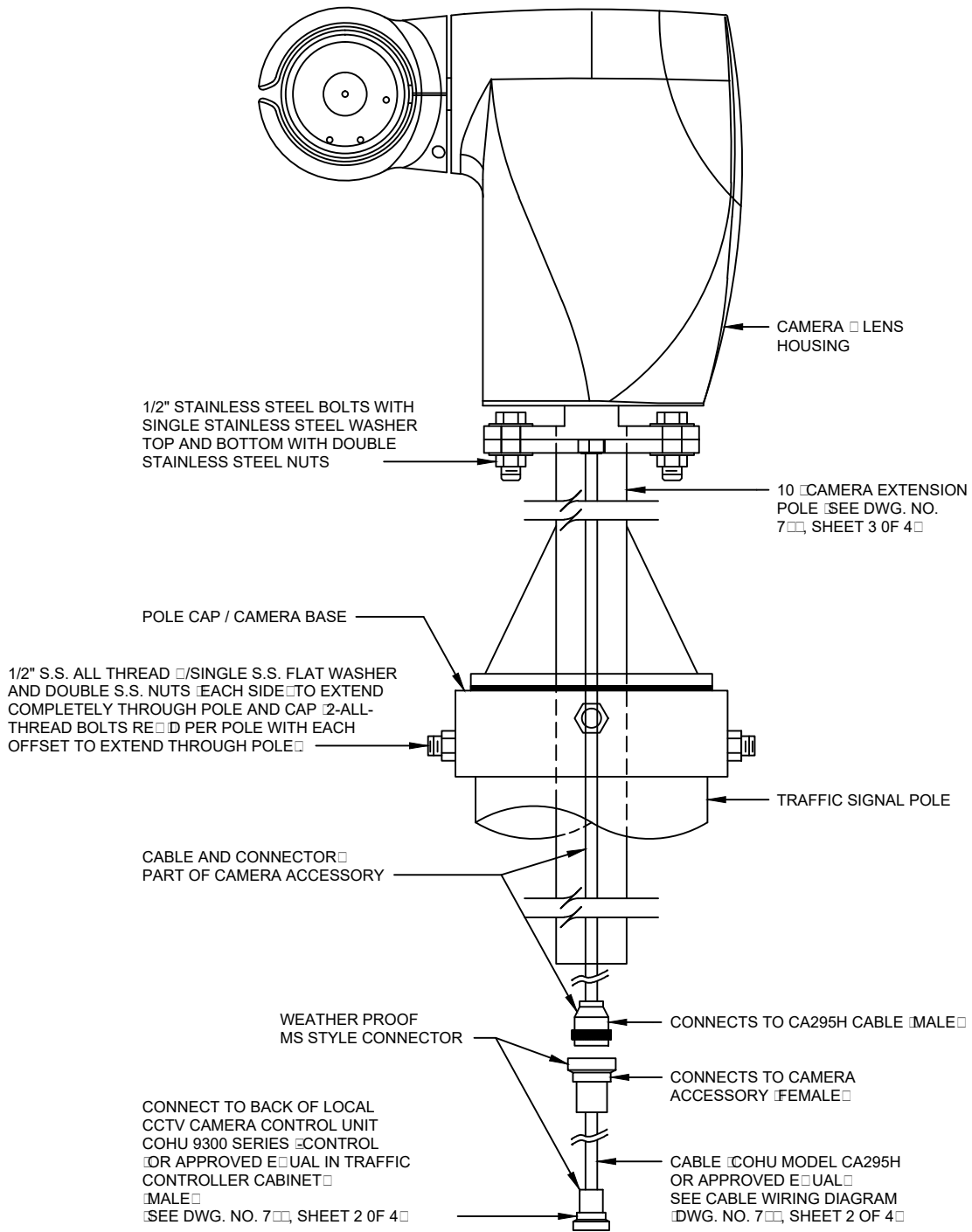
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPICAL INTERSECTION
ITS UNDERGROUND
LAYOUT

DATE 05-20-10	DWG. NO. 705
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CCTV CAMERA

COHU 395 - 4101
OR APPROVED EQUAL

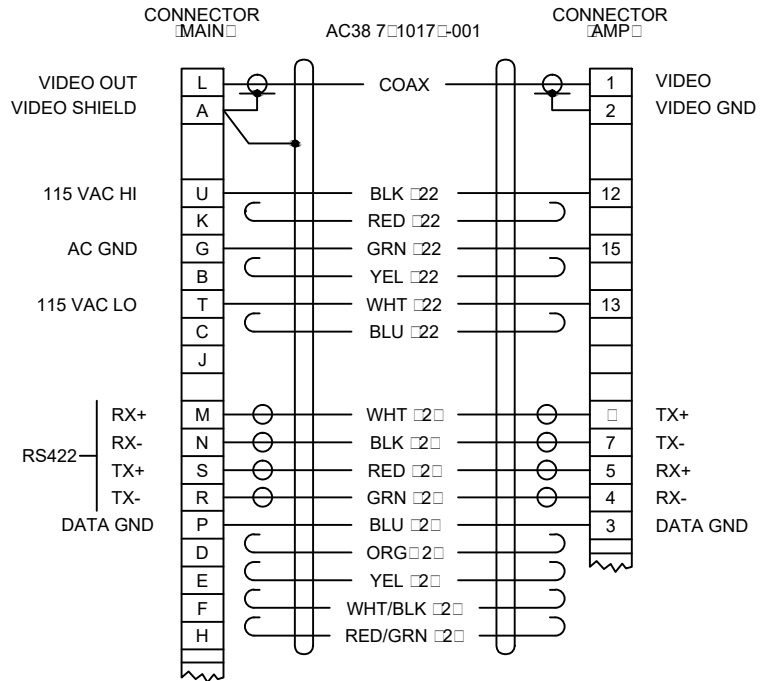


Effective 10/08/2020 to 12/09/2020

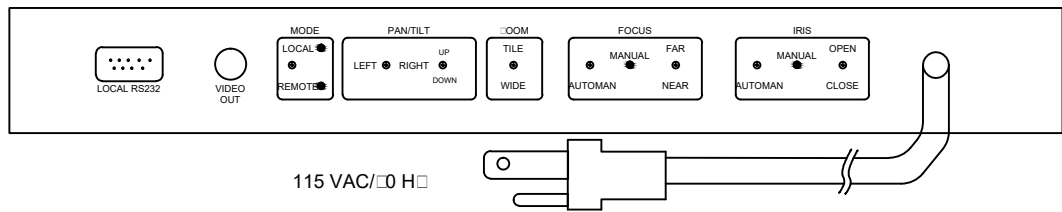
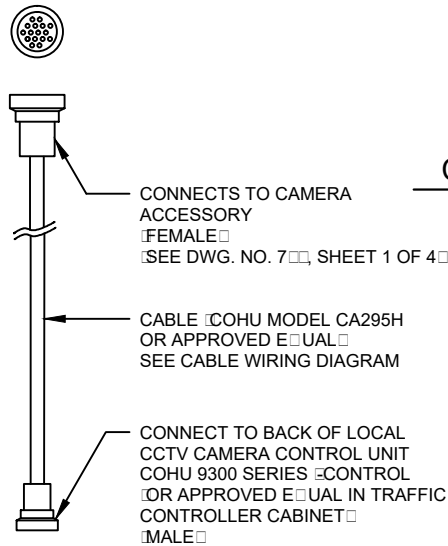
SPECIFICATION REFERENCE		AGENCY APPROVED					
85	VIDEO ENCODER	B	C	H	L	M	N
8	VIDEO ENCODER	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
87	CCTV FIELD EQUIPMENT						
		CLOSED CIRCUIT TELEVISION (CCTV) CAMERA					
		DATE 04-08-10		DWG. NO. 7		SHEET 1 OF 4	

NOTE

- IF PULLING CCTV CABLE IN EXISTING SIGNAL CONDUIT, AGENCY APPROVAL REQUIRED FOR METHOD OF INSTALLATION.



**CCTV CAMERA
CA295H CABLE WIRING DIAGRAM**



**LOCAL CCTV CAMERA CONTROL UNIT
COHU 9300 SERIES CONTROL
OR APPROVED EQUAL
IN TRAFFIC CONTROLLER CABINET**

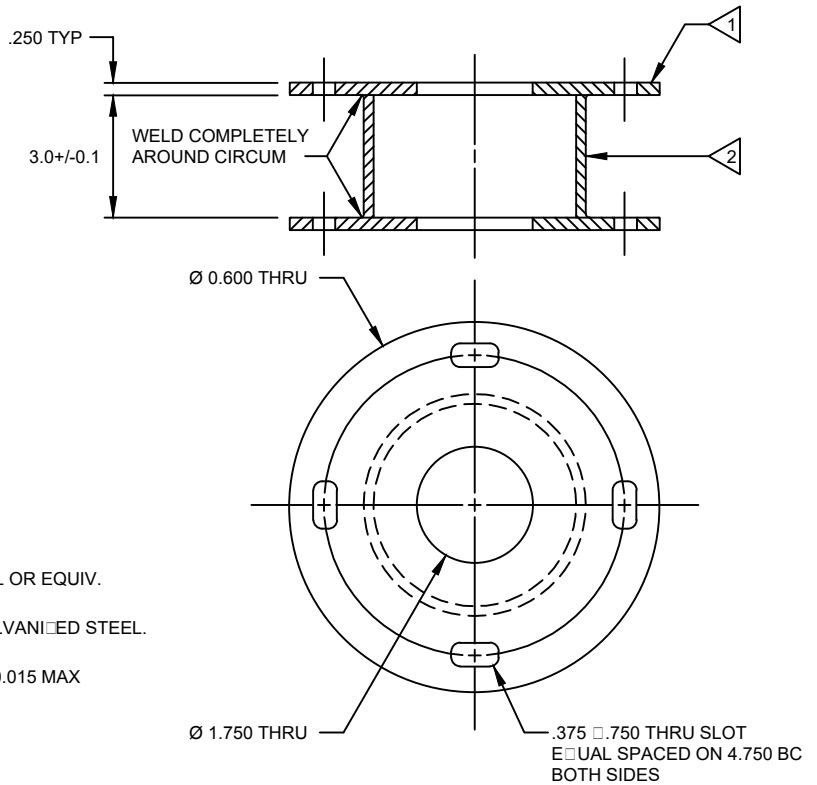
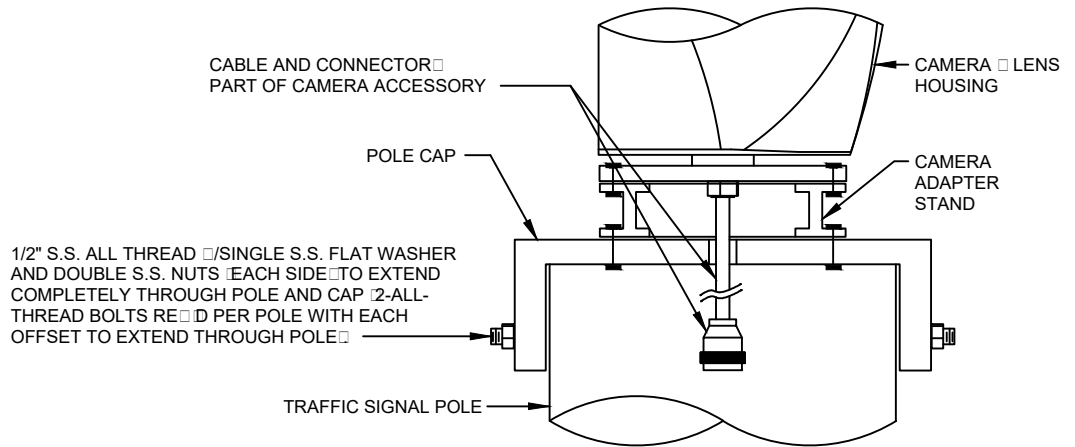
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	
85	VIDEO ENCODER
86	VIDEO ENCODER
87	CCTV FIELD EQUIPMENT

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
CLOSED CIRCUIT TELEVISION CAMERA CONTROL UNIT AND CABLE WIRING DIGRAM	
DATE 04-08-10	DWG. NO. 7
SHEET	2 OF 4

CAMERA ADAPTER STAND

[REQUIRED FOR POLE CAP MOUNTING]



- ▶ MAT'L (FLANGE) 1018 STEEL OR EQUIV.
- ▶ MAT'L (TUBE): Ø 3.5 X 1/8 WALL 1018 STEEL OR EQUIV.
- 3. ALL POLE AND CAP MATERIALS TO BE GALVANIZED STEEL.
- 4. REMOVE ALL BURRS AND SHARP EDGES 0.015 MAX

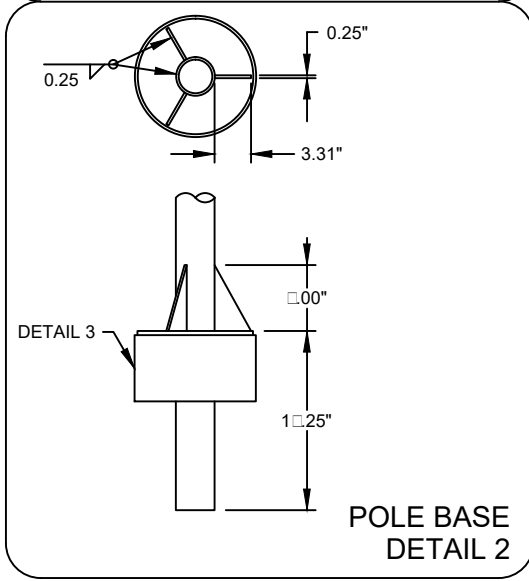
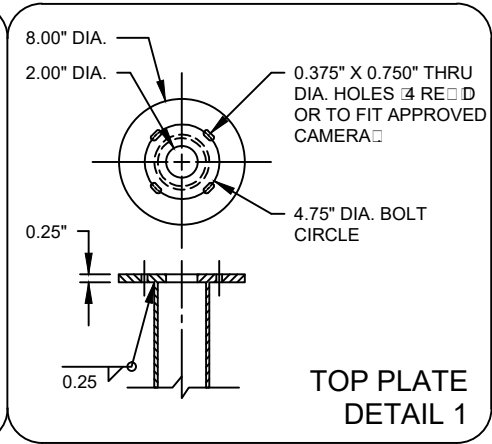
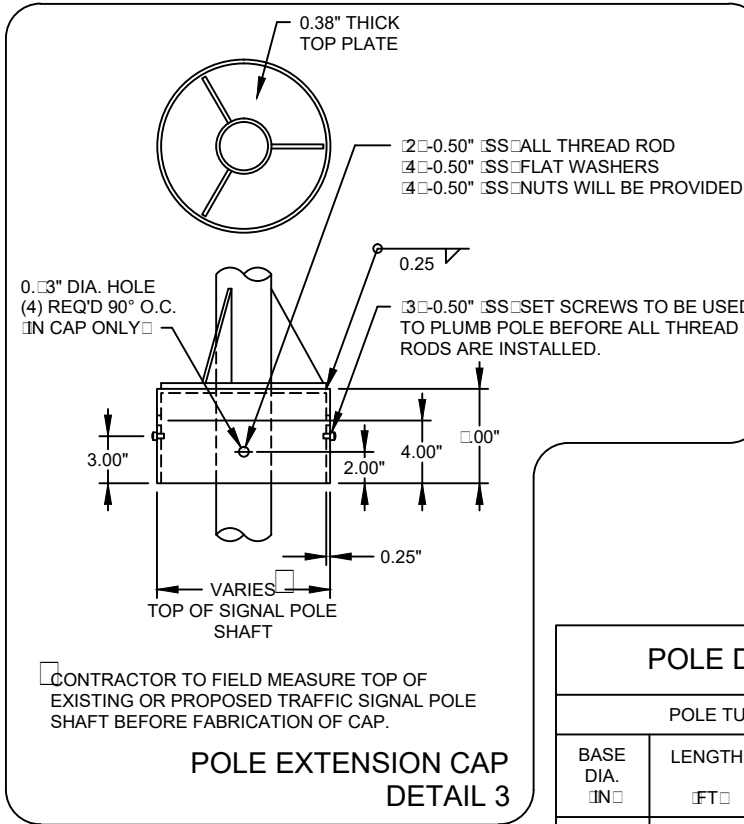
NOTE
CAMERA STAND TO BE USED ONLY TO AVOID CONFLICT WITH OVERHEAD POWER LINES. AGENCY APPROVAL REQUIRED.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
CLOSED CIRCUIT TELEVISION CAMERA ADAPTOR STAND						
DATE 04-08-10	DWG. NO.	7	SHEET	3 OF 4		

SPECIFICATION REFERENCE	
85	VIDEO ENCODER
8	VIDEO ENCODER
87	CCTV FIELD EQUIPMENT

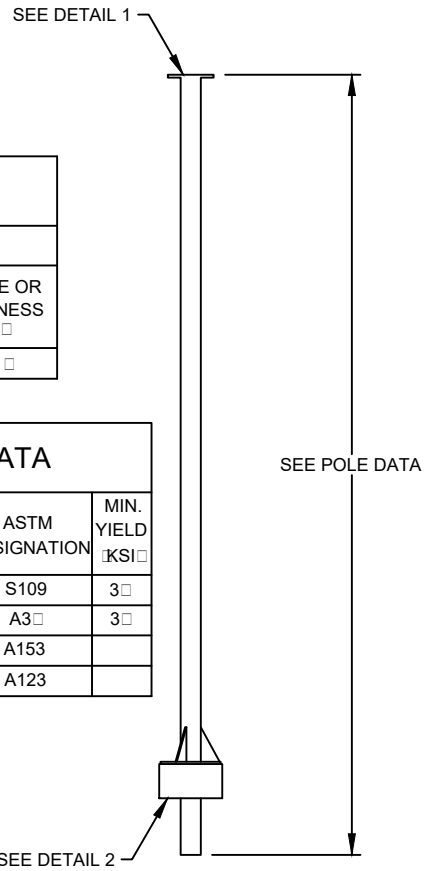
CAMERA EXTENSION POLE

REQUIRED FOR POLE CAP MOUNTING



POLE DATA		
POLE TUBE		
BASE DIA. IN	LENGTH FT	GAUGE OR THICKNESS IN
3.50	11.35	0.21

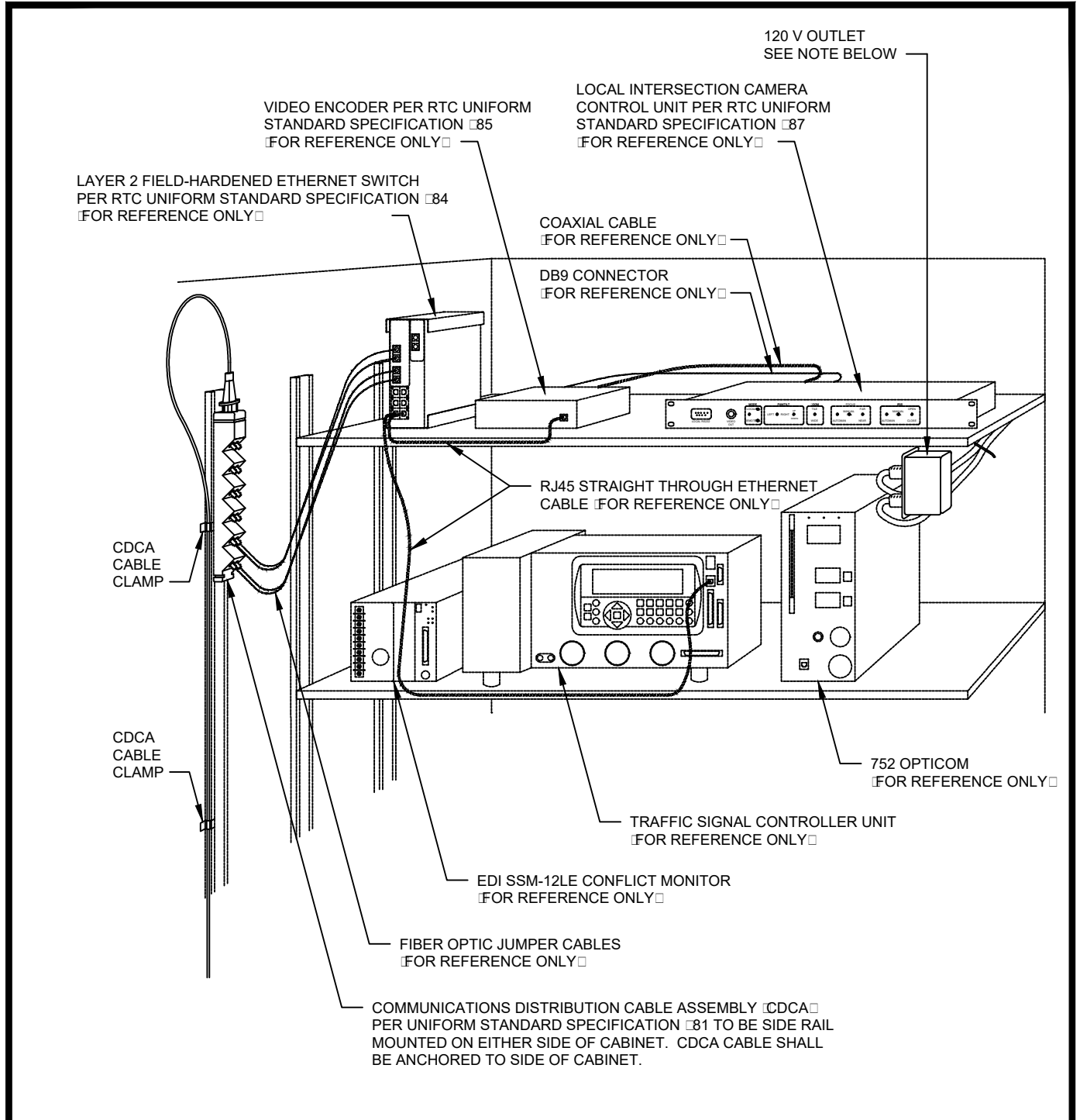
MATERIAL DATA		
COMPONENT	ASTM DESIGNATION	MIN. YIELD KSI
POLE TUBE	S109	3
PLATES	A3	3
GALVANIZING - HARDWARE	A153	
GALVANIZING - STRUCTURE	A123	



AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
CLOSED CIRCUIT TELEVISION CAMERA EXTENSION POLE						
DATE 04-08-10	DWG. NO. 7	SHEET			4 OF 4	

SPECIFICATION REFERENCE	
85	VIDEO ENCODER
8	VIDEO ENCODER
87	CCTV FIELD EQUIPMENT

Effective 10/08/2020 to 12/09/2020



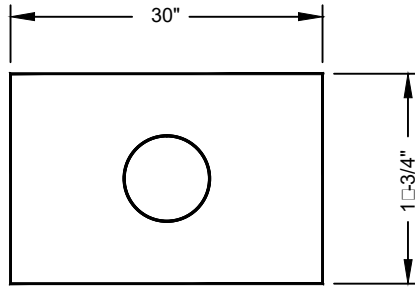
NOTE

AN ADDITIONAL 120V OUTLET TO BE INSTALLED ON SIDE RAIL, NEAR TOP, FOR ITS EQUIPMENT ON EITHER SIDE OF CABINET. LOCATION TO BE APPROVED BY AGENCY ENGINEER BEFORE INSTALLATION. MAXIMUM OF FOUR OUTLETS PER CABINET.

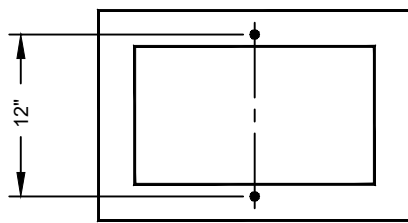
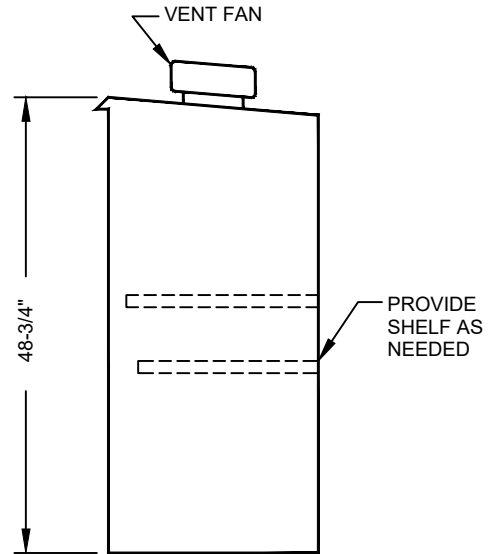
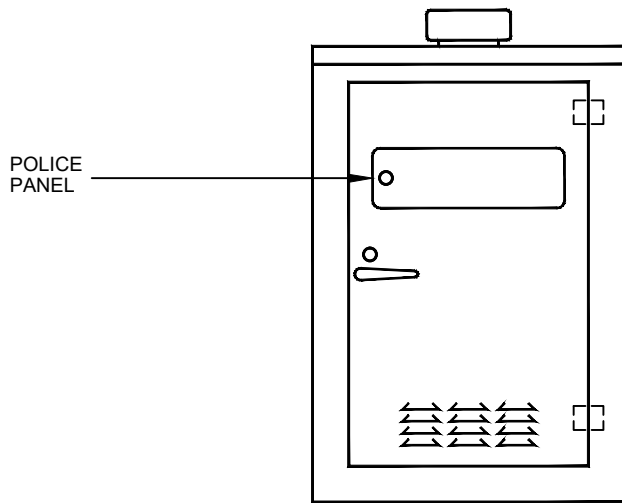
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
81	FIBER OPTIC SPLICE AND DISTRIBUTION EQUIPMENT	COMMUNICATION DISTRIBUTION CABLE ASSEMBLY [CDCA] IN CABINET						
		DATE 04-8-10	DWG. NO. 77					

MOTOR 1/125 HP-
3000 RPM NEMA CLASS
B INS. 0.5 AMPS AT
115 VAC.



VENT FAN SPECIFICATION
134 C.F.M. RATING AT .10"
OF WATER STATIC PRESSURE.



PLAN AT BASE

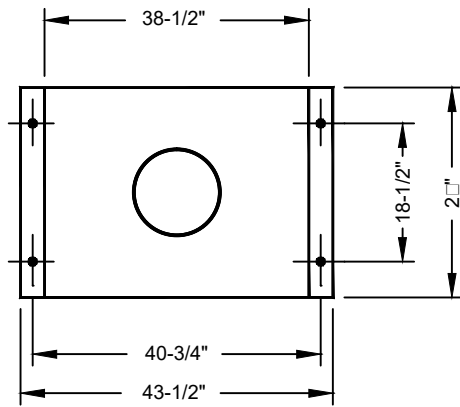
"M" CABINET

NOTES

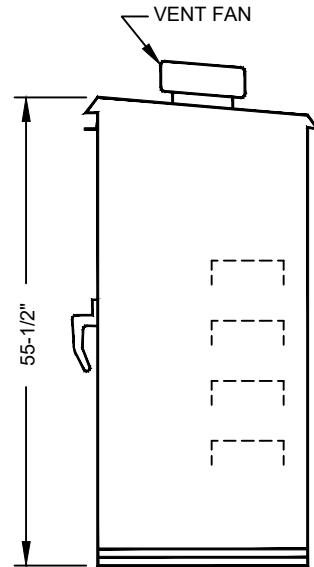
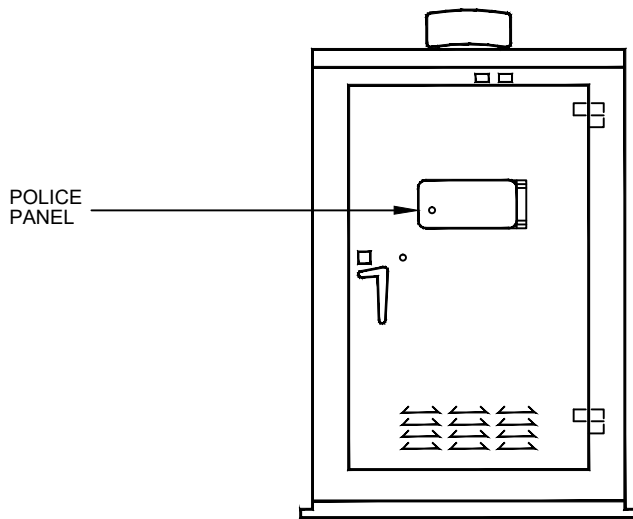
1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
3. DOOR SHALL LOCK AT THREE POINTS.
4. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 724.
5. INCLUDE 3/4" 18" 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	TYPE V CABINET						
	DATE 12-12-9	DWG. NO.		801			



VENT FAN SPECIFICATION □
SEE STANDARD DRAWING
NO. 801



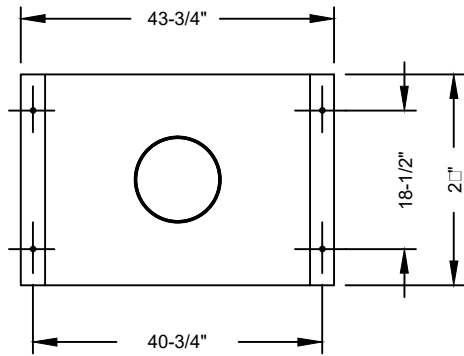
"P" CABINET

NOTES □

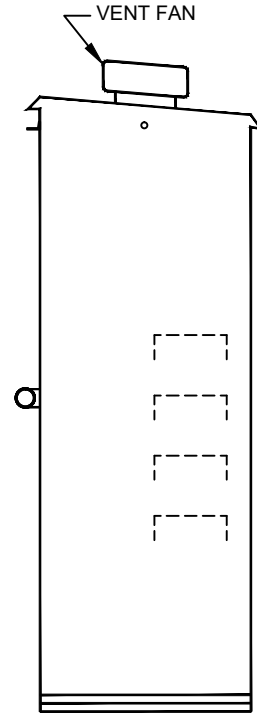
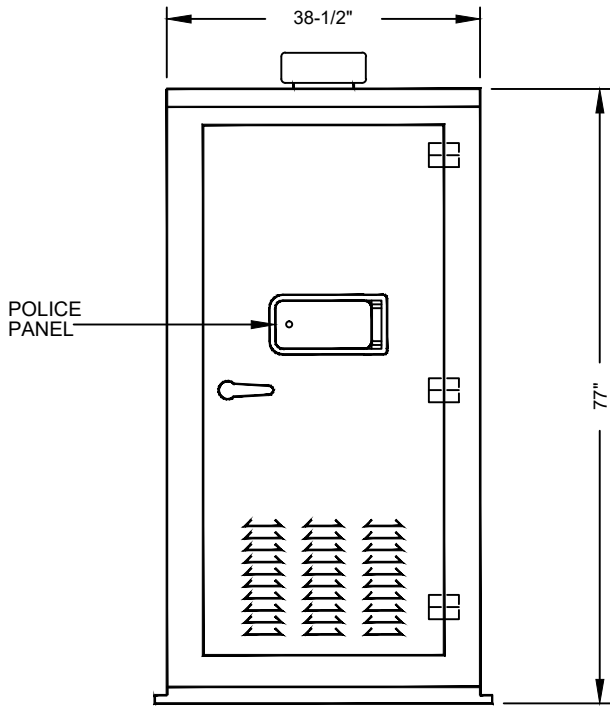
1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
 2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
 3. SHELVES SHALL BE REMOVABLE AND ADJUSTABLE FOR VERTICAL SPACING.
 4. DOOR SHALL LOCK AT THREE POINTS.
 5. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 725.
- INCLUDE 3/4" □ 18" □ 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPE VI CABINET						
		DATE 12-12-9□	DWG. NO.		802			



VENT FAN SPECIFICATION □
SEE STANDARD DRAWING
NO. 801



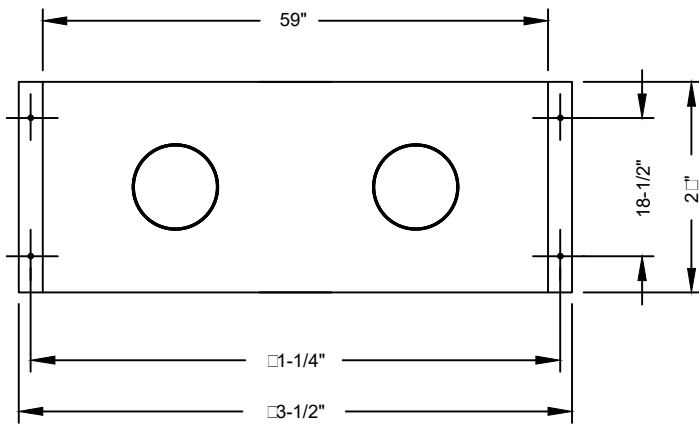
"R" CABINET

NOTES □

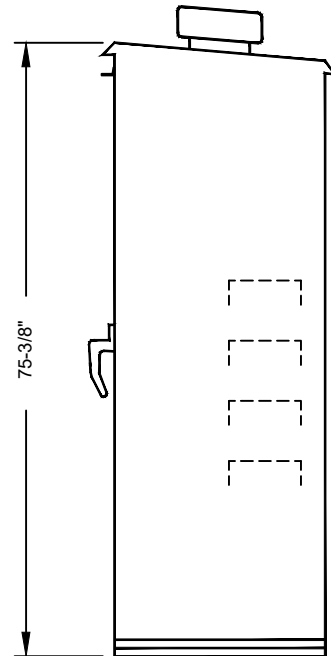
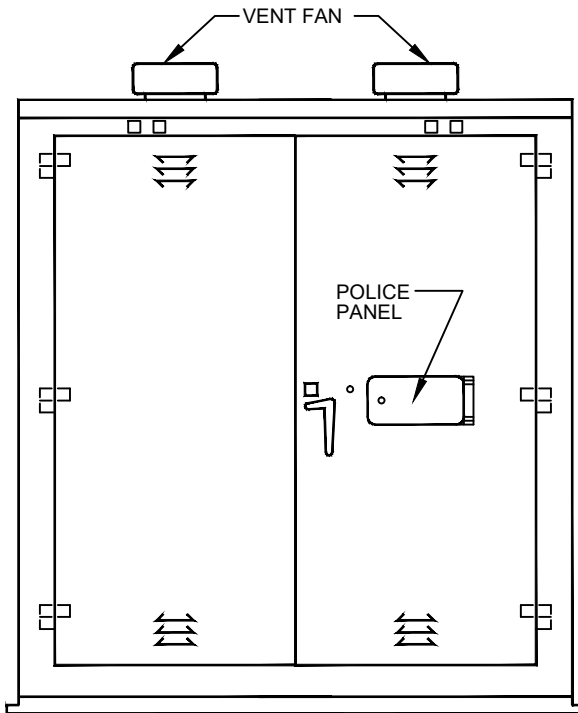
1. MATERIAL □ 14 GA. SHEET STEEL,
OR ALUMINUM E □ UIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE
TWO COATS WHITE ENAMEL OR AS
APPROPRIATE.
3. FOR FOUNDATION DETAILS AND ANCHOR
BOLT LOCATION SEE DRAWING NO. 725.
4. INCLUDE 3/4" □ 18" □ 3" HOT-DIP GALVANI □ ED
ANCHOR BOLTS WITH EACH CABINET.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		TYPE VIII CABINET						
		DATE 12-12-9 □	DWG. NO. 803					



VENT FAN SPECIFICATION □
SEE STANDARD DRAWING
NO. 801



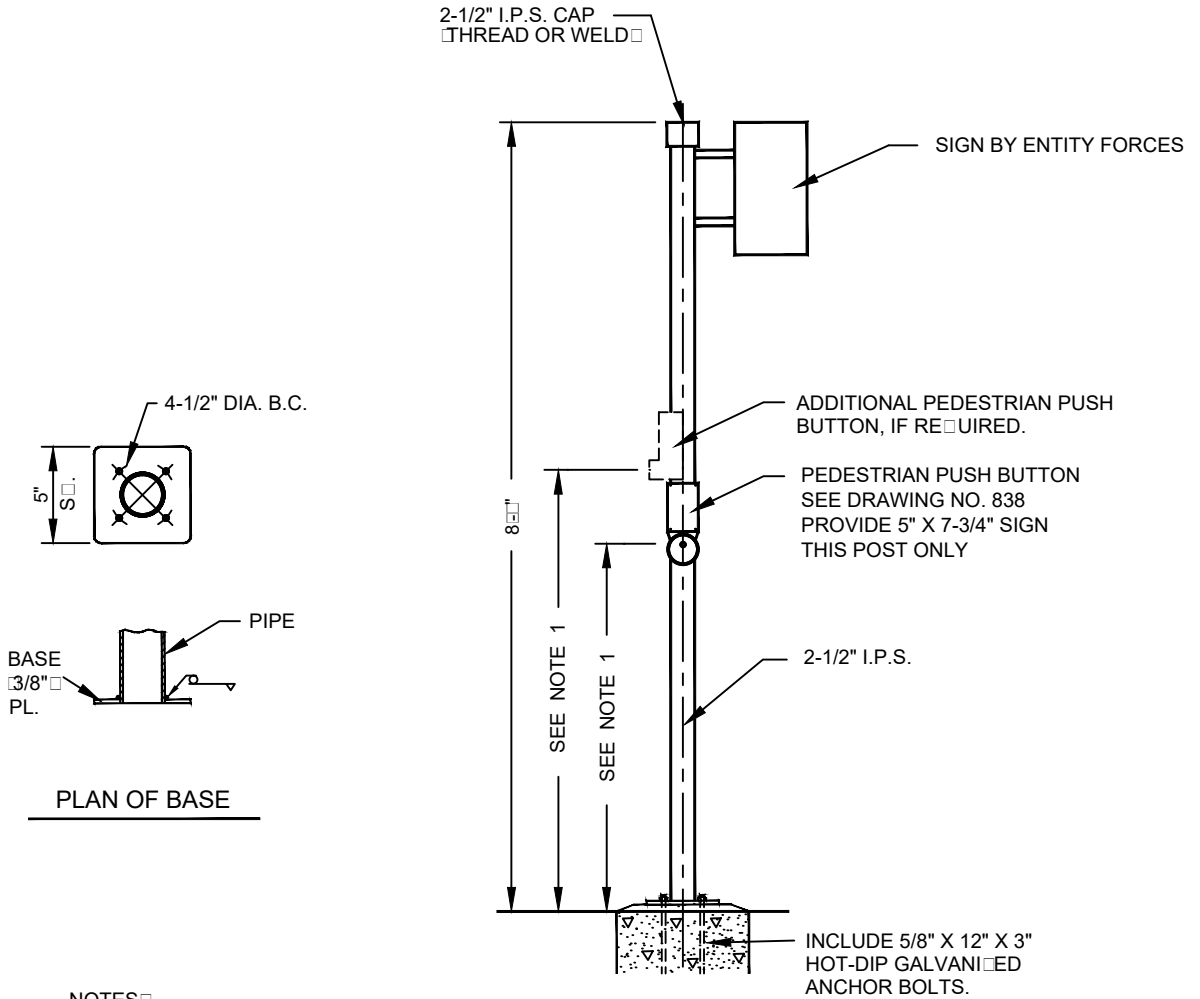
"RR" CABINET

NOTES □

1. MATERIAL - 14 GA. SHEET STEEL,
OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE
TWO COATS WHITE ENAMEL OR AS
APPROPRIATE.
3. FOUNDATION DETAILS SHALL BE SPECIFIED
ON THE SIGNAL CONSTRUCTION PLANS.
4. INCLUDE 3/4" □ 18" □ 3" HOT-DIP GALVANIZED
ANCHOR BOLTS WITH EACH CABINET.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
TYPE IX CABINET						
DATE	12-12-9	DWG. NO.	804			

SPECIFICATION REFERENCE	



NOTES

1. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE OF THE WALK OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".
2. THE FORCE REQUIRED TO ACTIVATE CONTROL SHALL BE NO GREATER THAN 5 LB.
3. POST SHALL BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

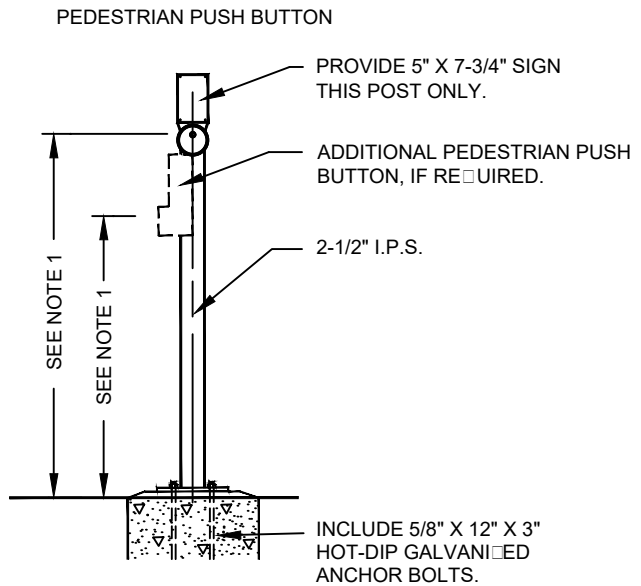
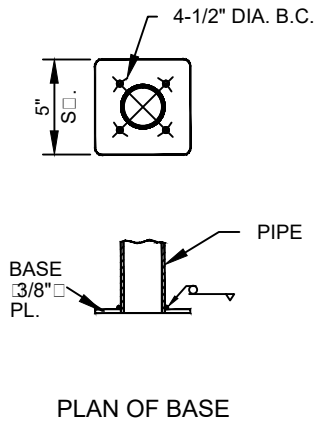
FOR TYPE "A" FOUNDATION SEE DRAWING NO. 715

AGENCY APPROVED	B	C	H	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
PEDESTRIAN PUSH BUTTON POST FOR SPECIAL SIGN 8 FT.- 0 INCHES HIGH					
DATE 08-09-18	DWG. NO.	805	SHEET	1 OF 2	

SPECIFICATION REFERENCE	



PEDESTRIAN PUSHBUTTON
FOR 2 1/2" POSTTOP MOUNTING



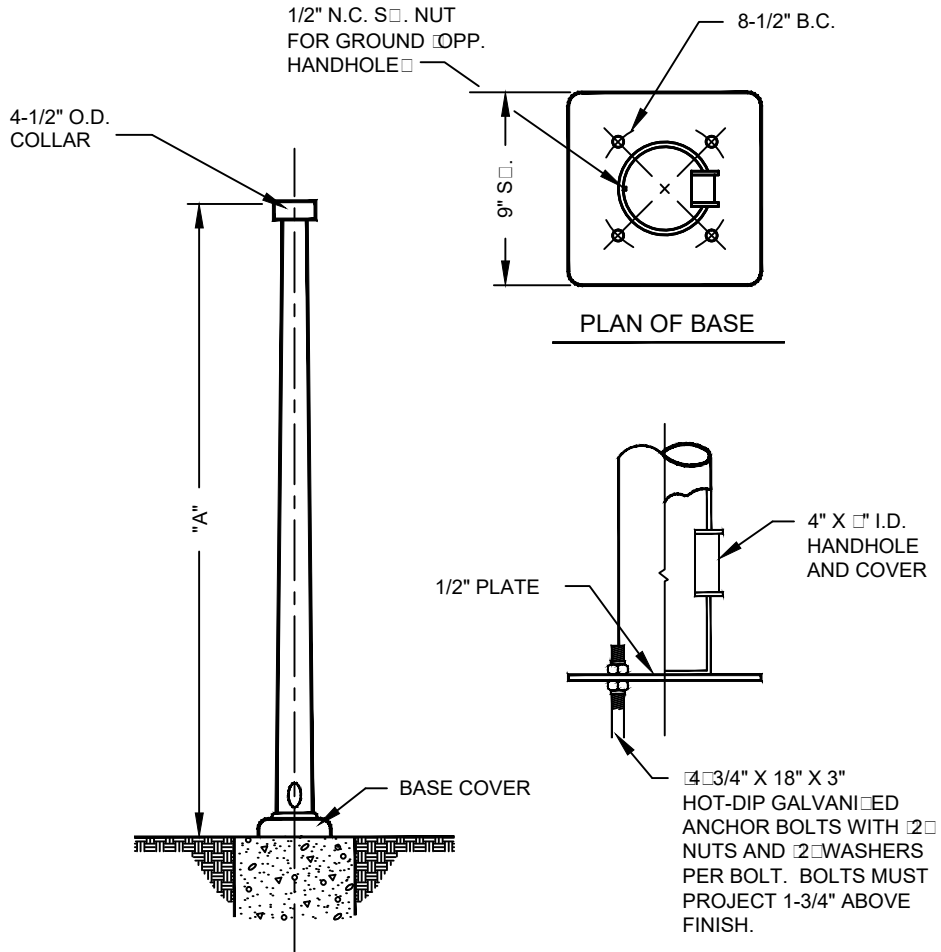
NOTES

1. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE OF THE WALK OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".
2. THE FORCE REQU IRED TO ACTIVATE CONTROL SHALL BE NO GREATER THAN 5 LB.
3. POST SHALL BE HOT-DIP GALVANI ED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQU IRED BY THE ENTITY.

FOR TYPE "A" FOUNDATION SEE DRAWING NO.715

AGENCY APPROVED	B	C	H	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
PEDESTRIAN PUSH BUTTON POST FOR 2 1/2 INCHES POSTTOP MOUNTING					
DATE 08-09-18	DWG. NO.	805	SHEET	2 OF 2	

SPECIFICATION REFERENCE	



POLE TYPE	"A" NOM.	SHAFT SIZE	
1-A	10±0"	11 GA. 5.5" X 4.1" X 10±0"	NEAR RIGHTS ISL. POLES
1-B	7±0"	11 GA. 5.5" X 4.1" X 7±0"	PED. HEADS ISL. POLES

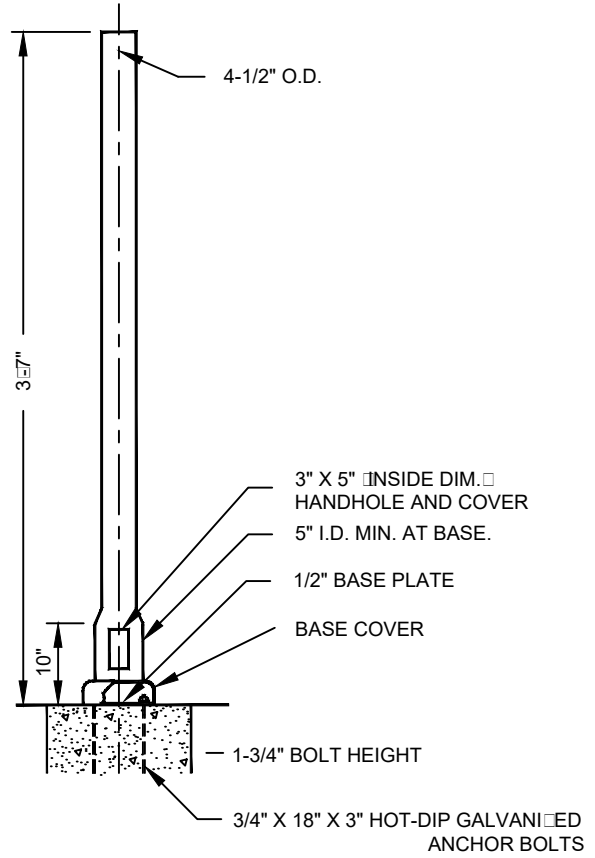
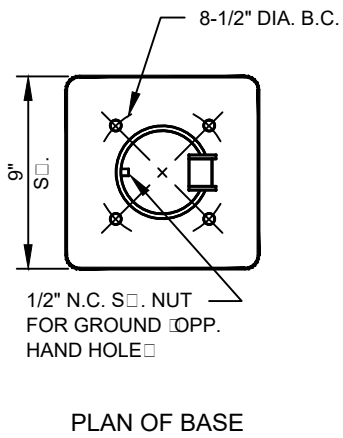
NOTES

- ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
- HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

FOR TYPE "C" FOUNDATION SEE DRAWING NO. 717.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SIGNAL STANDARD TYPE 1-A, 1-B						
DATE 07-01-17	DWG. NO.	80				

SPECIFICATION REFERENCE	



NOTES

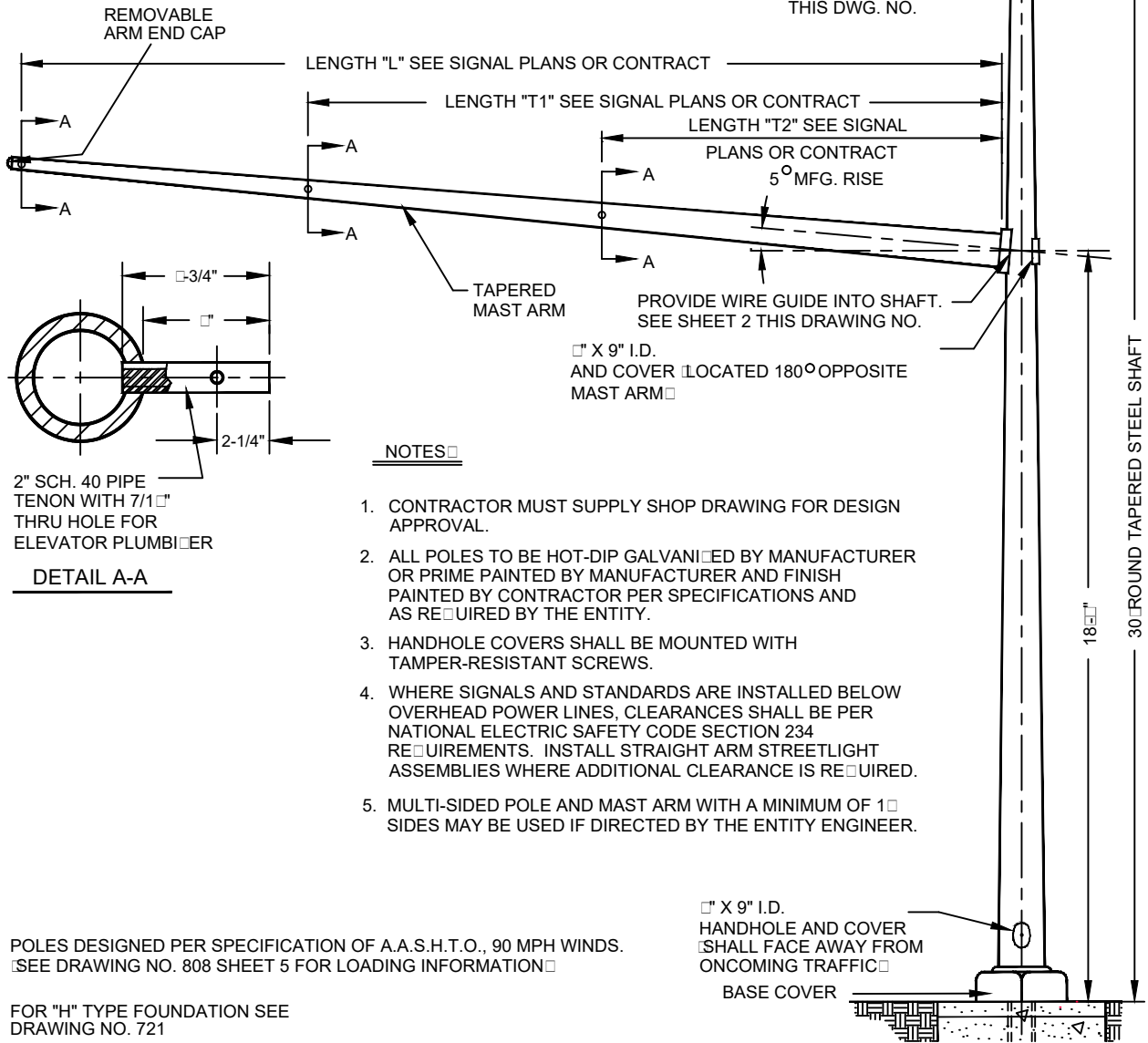
1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH BY PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
2. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

FOR TYPE "C" FOUNDATION SEE DRAWING NO.717.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		PEDESTAL FOR CONTROLLER CABINETS						
		DATE 12-12-9	DWG. NO.		807			

LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
□	3.42	2.38	11	32±0"
8	3.75	2.38	11	33±3"
10	4.1□	2.38	11	35±0"
12	4.52	2.38	11	3□±□"
15	4.95	2.38	11	37±0"



2" SCH. 40 PIPE
TENON WITH 7/16"
THRU HOLE FOR
ELEVATOR PLUMBER

DETAIL A-A

NOTES

1. CONTRACTOR MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.
5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 1 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 90 MPH WINDS.
(SEE DRAWING NO. 808 SHEET 5 FOR LOADING INFORMATION)

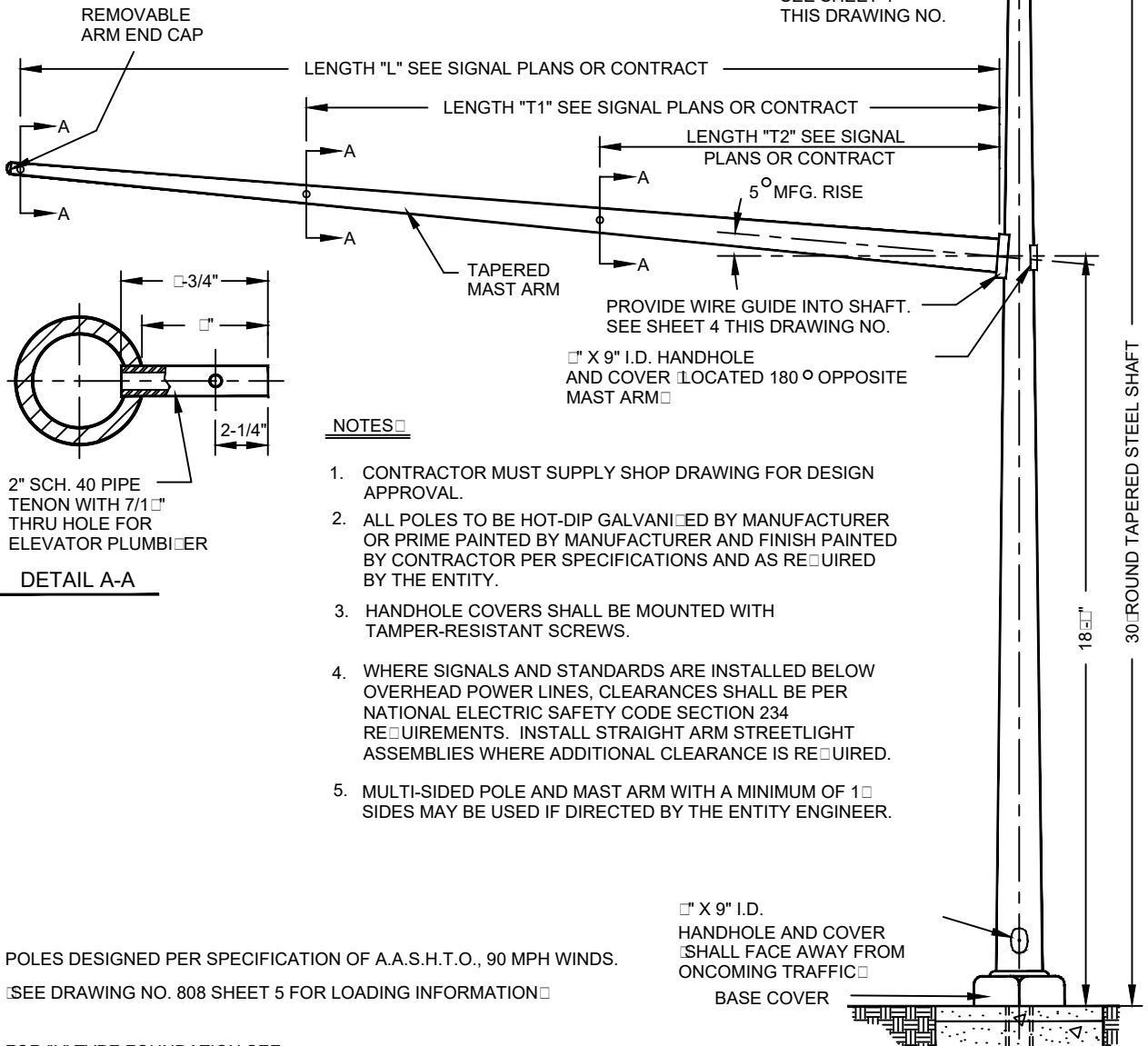
FOR "H" TYPE FOUNDATION SEE
DRAWING NO. 721

□ X 9" I.D.
HANDHOLE AND COVER
SHALL FACE AWAY FROM
ONCOMING TRAFFIC
BASE COVER

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
TYPE XX-30 FT. SIGNAL □ LUMINAIRE POLE □ 45 FT. OR LESS MAST ARMS □						
DATE 07-01-17	DWG. NO.	808	SHEET	1 OF □		

LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
□	3.42	2.38	11	32±0"
8	3.75	2.38	11	33±3"
10	4.1□	2.38	11	35±0"
12	4.52	2.38	11	3□±"
15	4.95	2.38	11	37±0"



2" SCH. 40 PIPE TENON WITH 7/16" THRU HOLE FOR ELEVATOR PLUMBER

DETAIL A-A

NOTES

1. CONTRACTOR MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.
5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 1 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 90 MPH WINDS.

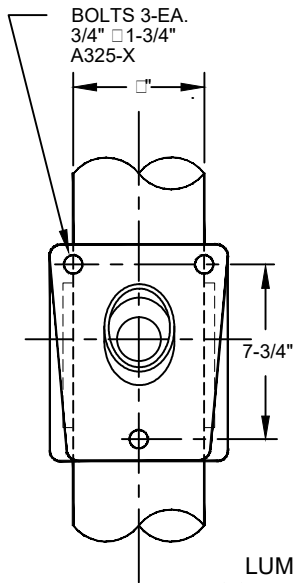
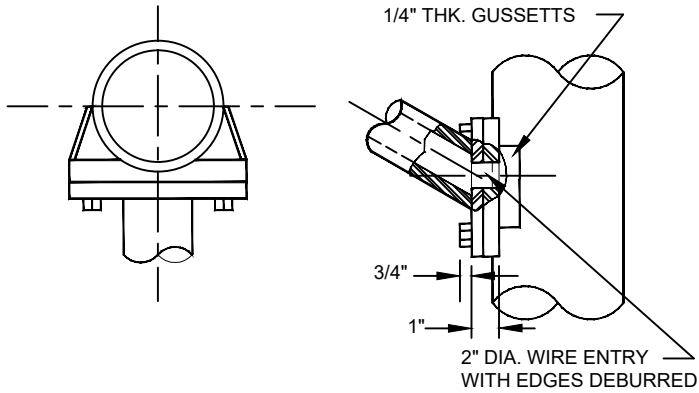
SEE DRAWING NO. 808 SHEET 5 FOR LOADING INFORMATION

FOR "L" TYPE FOUNDATION SEE DRAWING NO. 722

9" X 9" I.D. HANDHOLE AND COVER SHALL FACE AWAY FROM ONCOMING TRAFFIC

BASE COVER

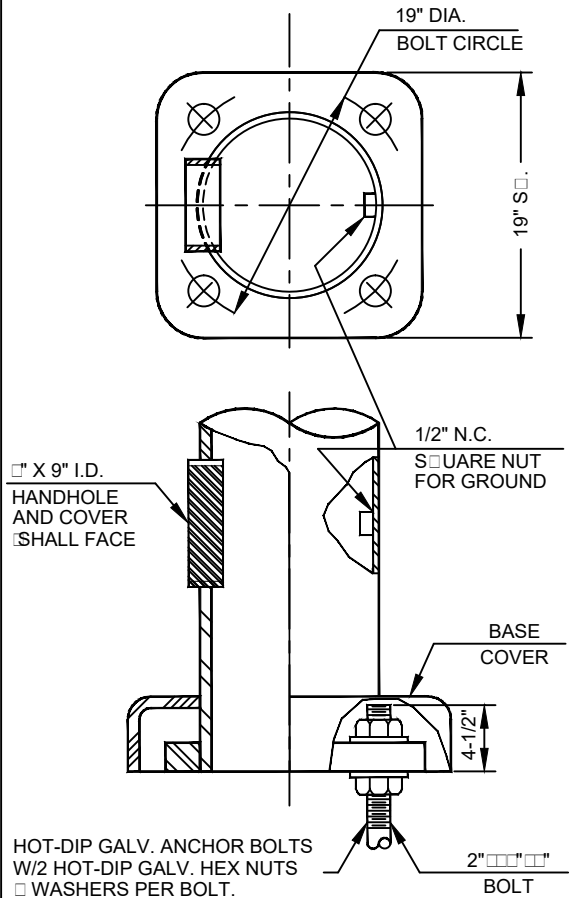
AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
TYPE XX - A - 30 FT. SIGNAL LUMINAIRE POLE 50 FT. THRU 0 FT. MAST ARMS						
DATE 07-01-17	DWG. NO.	808	SHEET	3 OF □		



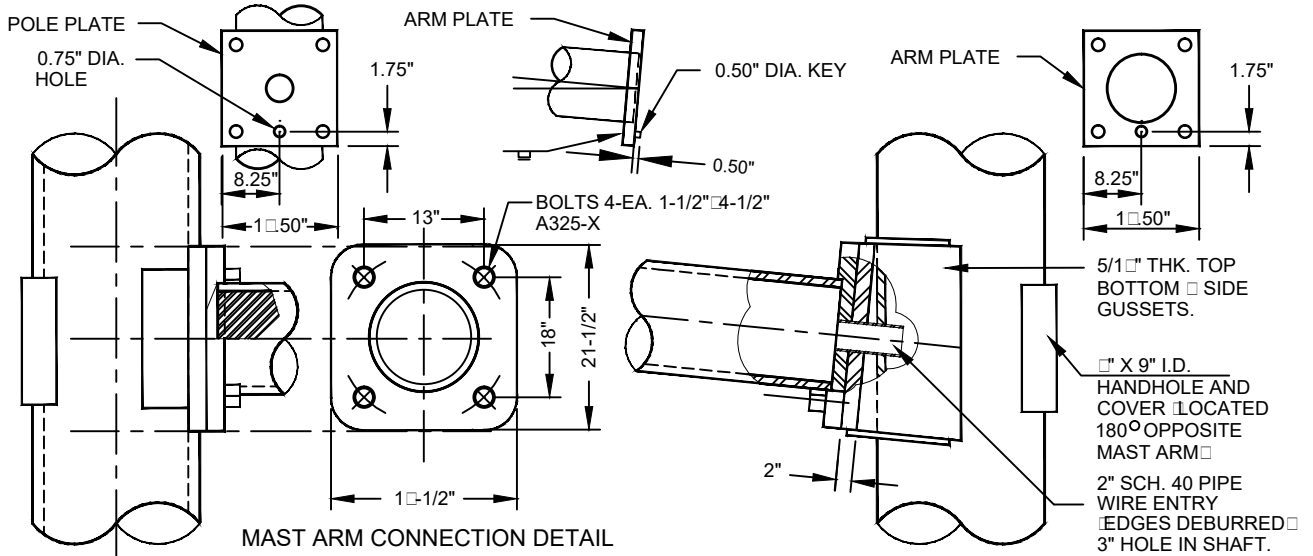
LUMINAIRE ARM CONNECTION DETAIL

NOTES \square

1. CONTRACTOR MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234. ADDITIONAL CLEARANCE IS REQUIRED.
5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF \square SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.



POLE MOUNTING DETAIL



MAST ARM CONNECTION DETAIL

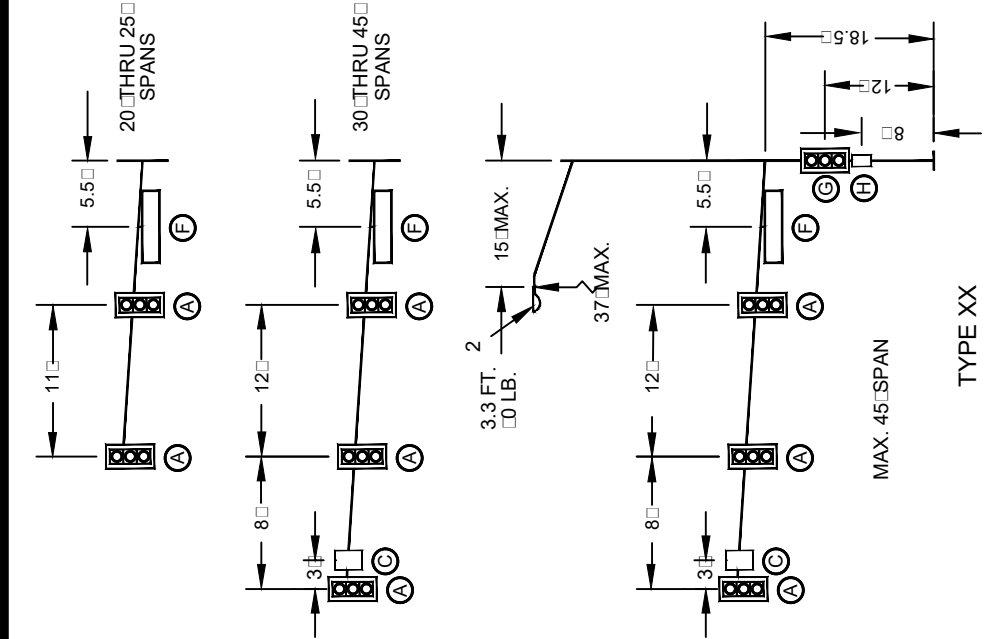
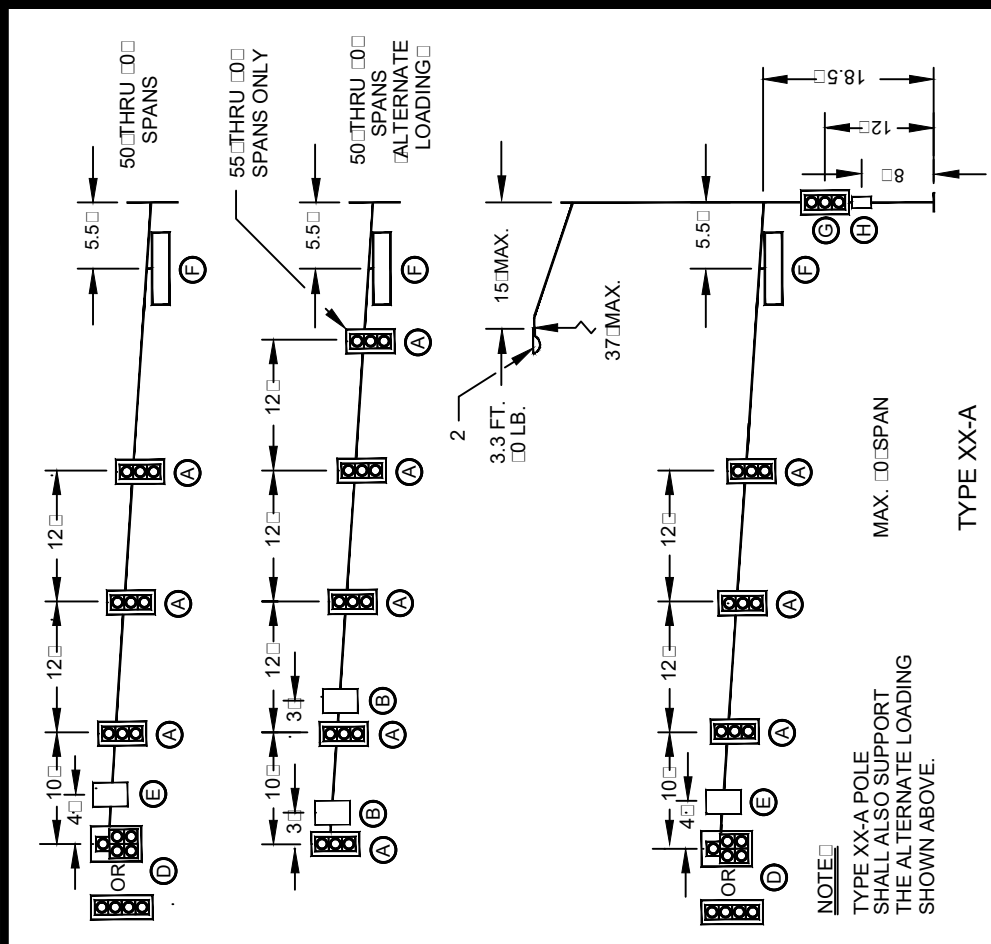
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX - A - 30 FT.
50 FT. THRU \square 0 FT. MAST ARMS \square
SIGNAL \square LUMINAIRE POLE DETAILS

DATE 07-01-17	DWG. NO. 808	SHEET	4 OF \square
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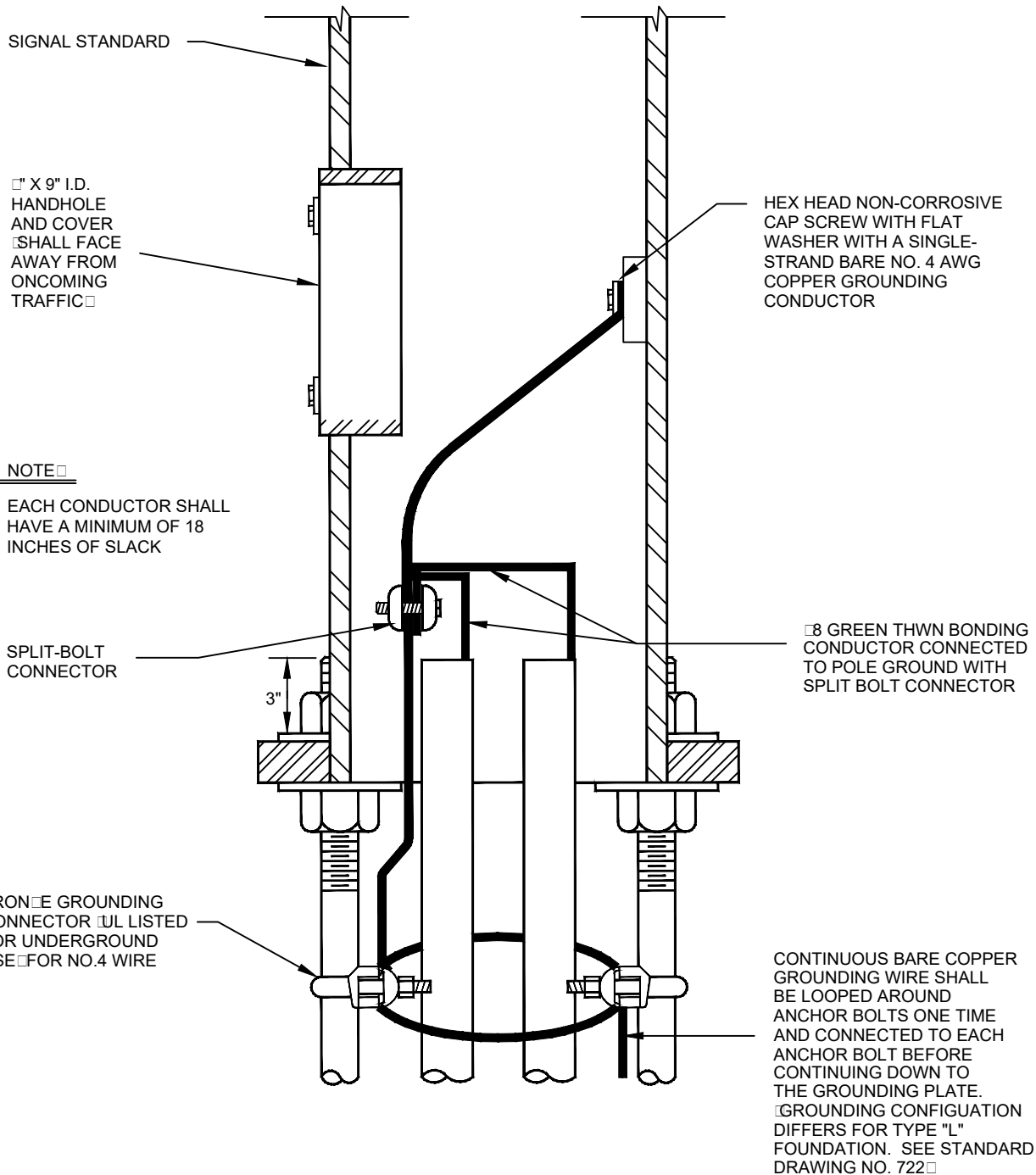
DESIGN CRITERIA

- AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- FATIGUE LOADS SPECIFIED IN CHAPTER 11 NOT REQUIRED.
- MAXIMUM DESIGN MINIMUM YIELD STRENGTH FOR TUBULAR MEMBERS SHALL BE LIMITED TO 48,000 PSI FOR COLD WORKED MATERIALS AND 50,000 PSI FOR NON-COLD WORKED MATERIALS.
- WIND VELOCITY 90 MPH ISOTACH.

DEVICE	DESCRIPTION	PROJ. AREA (FT ²)	WEIGHT (LBS)
(A) SIGNAL	12" - 3 SEC. W/ BACKPLATES (M-2)	9.80	40
(B) SIGN	R3-5 24" X 30"	5.00	15
(C) SIGN	R3-4 24" X 24"	4.00	10
(D) SIGNAL	12" - 4 OR 5 SEC. W/ BACKPLATES (M-4 OR M-5)	13.18	80
(E) SIGN	R10-12 OR R10-12F 30" X 3"	11.25	30
(F) SIGN	STREET NAME-FREE SWINGING-1.8 X 8	13.44	100
(G) SIGNAL	DUAL-12" - 3 SEC. W/ BACKPLATES	17.34	80
(H) SIGNAL	DUAL-PEDESTRIAN	8.00	0

LOADING INFORMATION

SPECIFICATION REFERENCE		AGENCY APPROVED					
		B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		LOADING INFORMATION					
DATE	07-01-17	DWG. NO.	808	SHEET	5 OF 0		



NOTE
 EACH CONDUCTOR SHALL HAVE A MINIMUM OF 18 INCHES OF SLACK

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

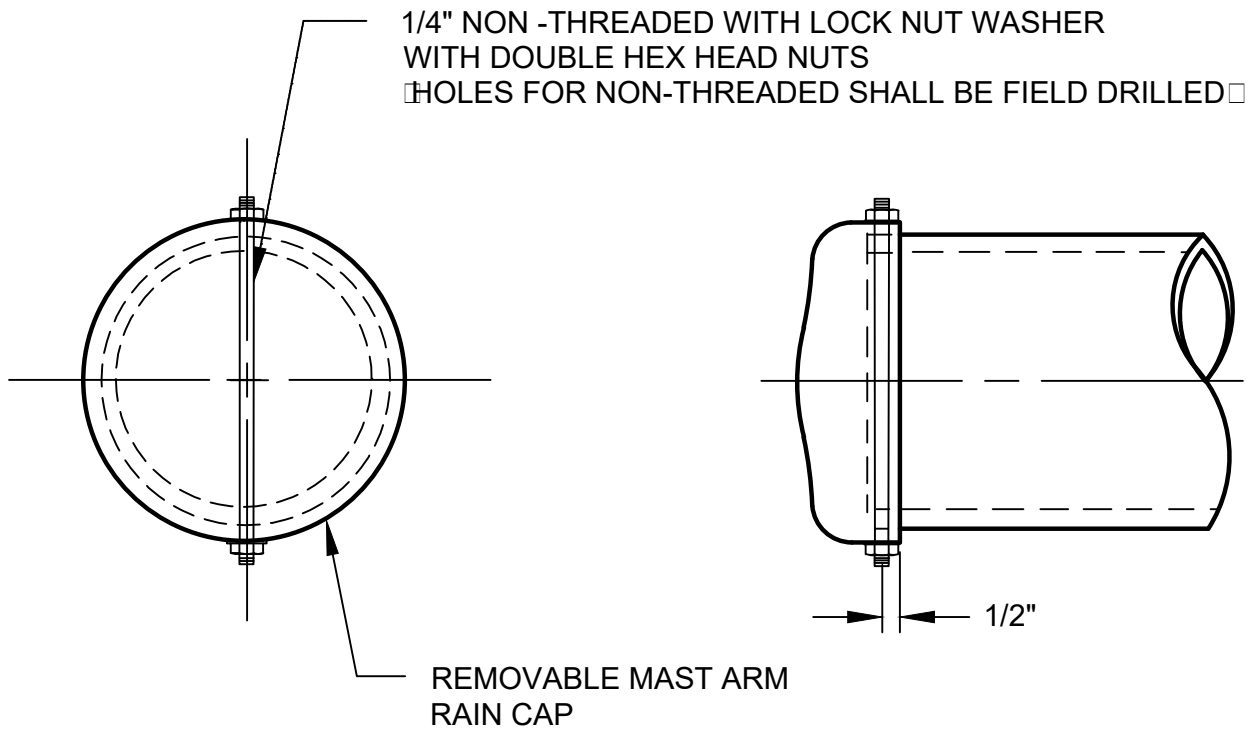
UNIFORM STANDARD DRAWINGS
 CLARK COUNTY AREA

TRAFFIC SIGNAL POLE
 GROUNDING

DATE 07-01-17 DWG. NO. 808 SHEET OF

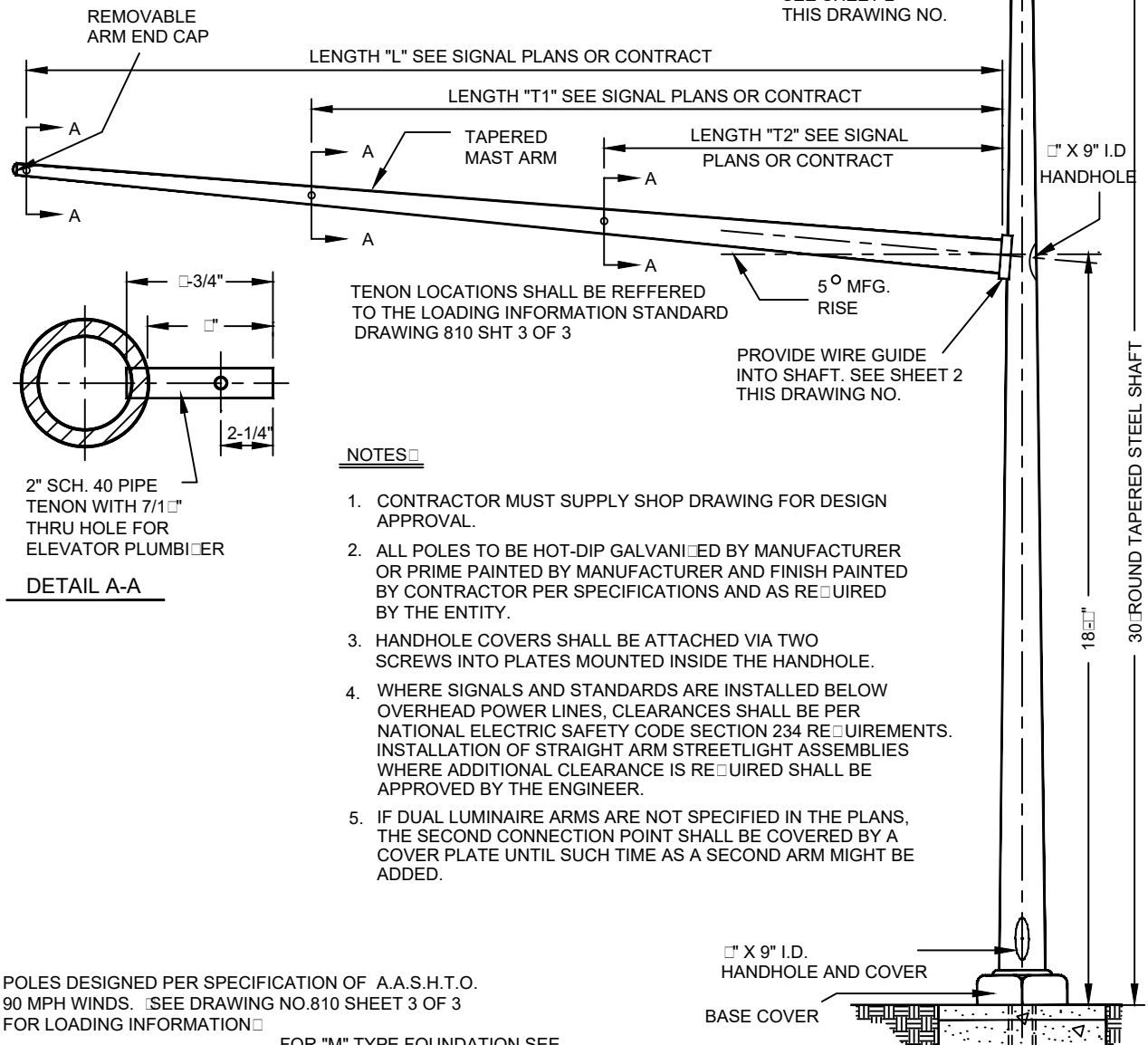
Effective 10/08/2020 to 12/09/2020

Effective 10/08/2020 to 12/09/2020



SPECIFICATION REFERENCE		AGENCY APPROVED					
23 TRAFFIC SIGNALS STREET LIGHTING		B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		REMOVABLE MAST ARM END CAP DETAIL					
		DATE 05-19-05	DWG. NO.		809		

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
□	3.42	2.38	11	32±0"
8	3.75	2.38	11	33±3"
10	4.1□	2.38	11	35±0"
12	4.52	2.38	11	3□±□"
15	4.95	2.38	11	37±0"



POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O. 90 MPH WINDS. (SEE DRAWING NO. 810 SHEET 3 OF 3 FOR LOADING INFORMATION)

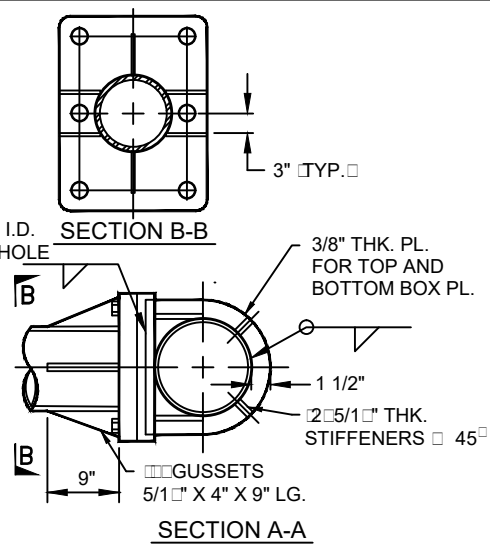
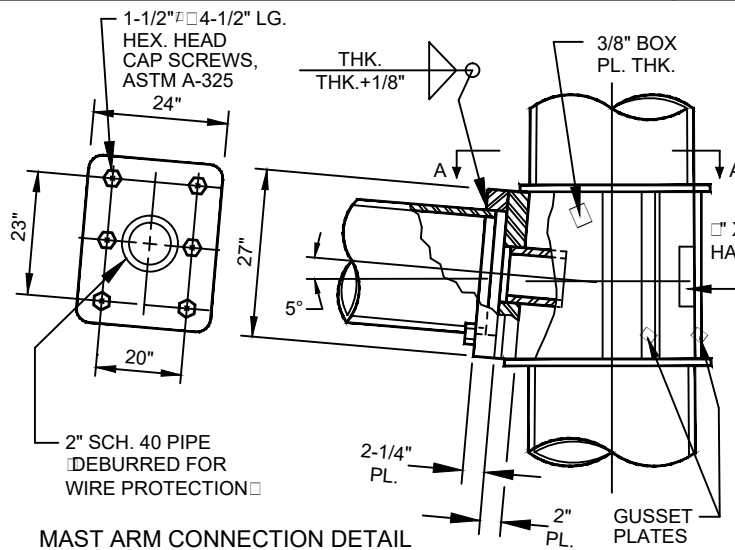
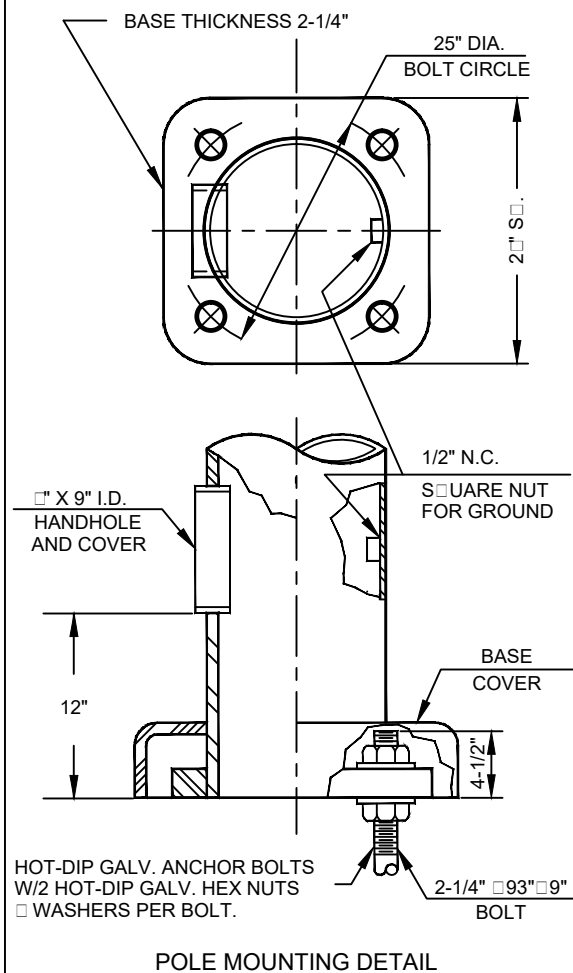
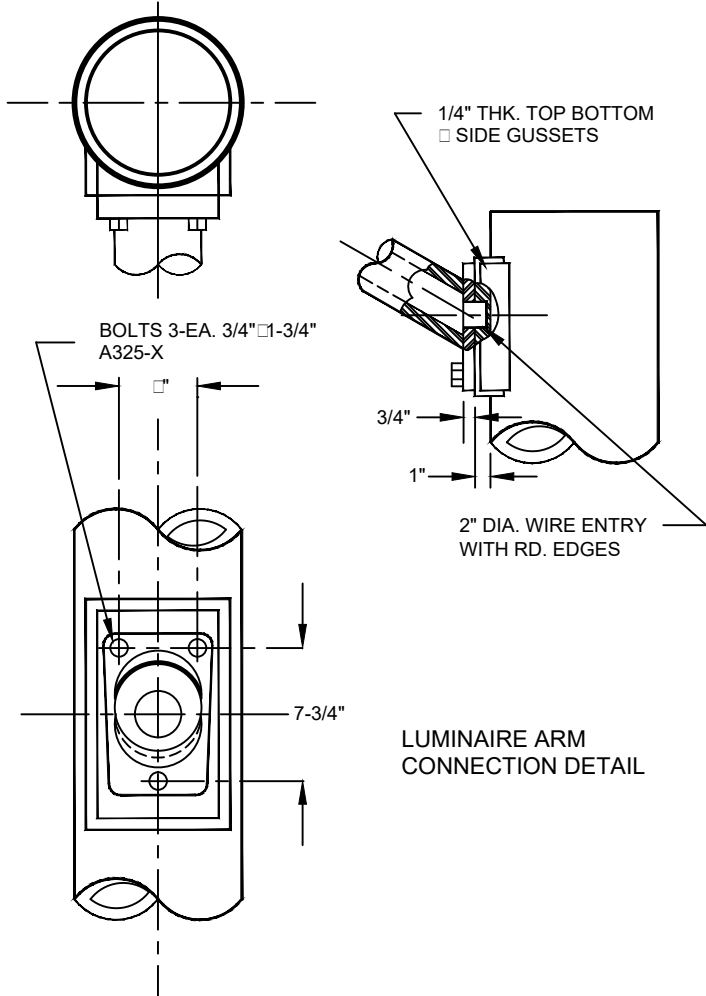
FOR "M" TYPE FOUNDATION SEE DRAWING NO. 723

NOTES

1. CONTRACTOR MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE ATTACHED VIA TWO SCREWS INTO PLATES MOUNTED INSIDE THE HANDHOLE.
4. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALLATION OF STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED SHALL BE APPROVED BY THE ENGINEER.
5. IF DUAL LUMINAIRE ARMS ARE NOT SPECIFIED IN THE PLANS, THE SECOND CONNECTION POINT SHALL BE COVERED BY A COVER PLATE UNTIL SUCH TIME AS A SECOND ARM MIGHT BE ADDED.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		TYPE XX - B - 30 FT. SIGNAL □ LUMINAIRE POLE □ 5 FT. THRU 85 FT. MAST ARMS □					
DATE 07-01-17	DWG. NO.	810	SHEET		1 OF 3		



AGENCY APPROVED	B	C	H	L	M	N
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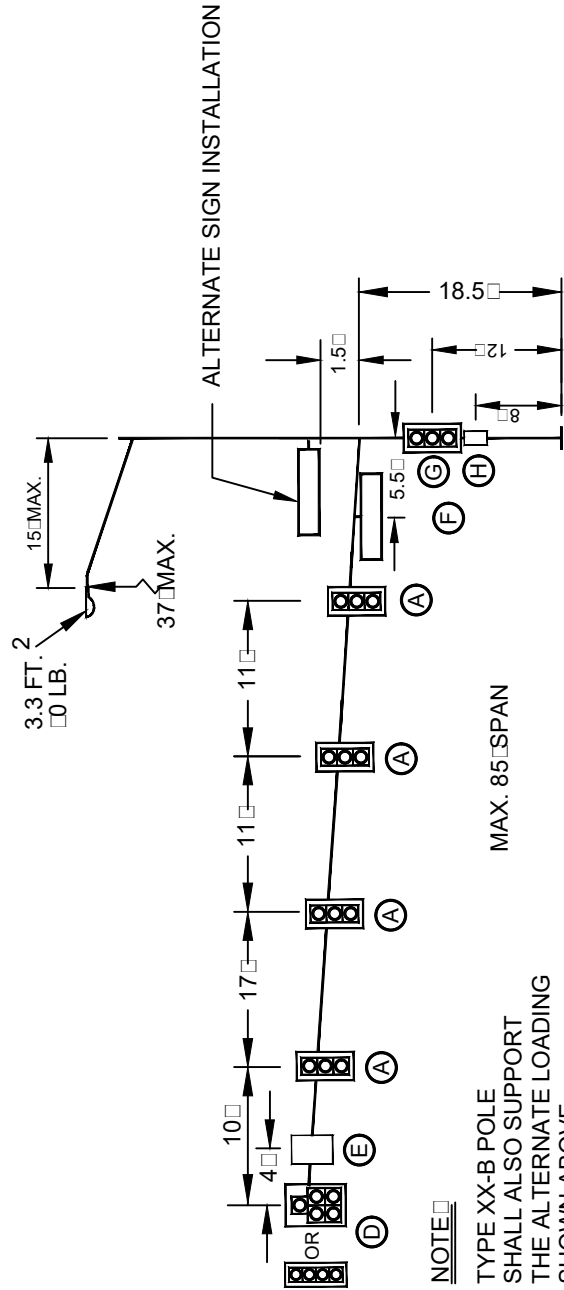
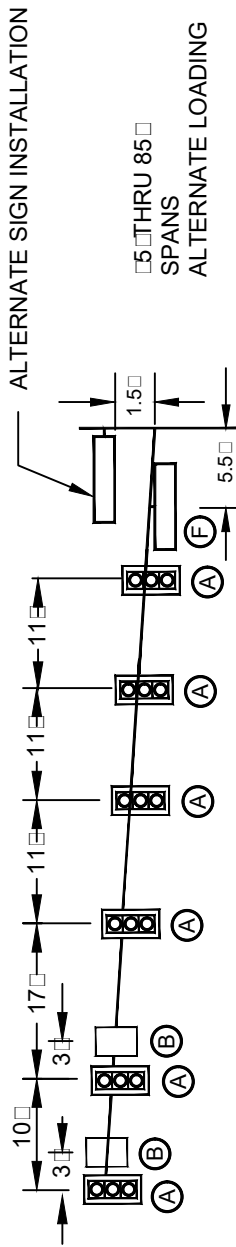
SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX - B - 30 FT.
5 FT. THRU 85 FT. MAST ARMS
SIGNAL LUMINAIRE POLE DETAILS

DATE 07-01-17	DWG. NO. 810	SHEET	2 OF 3
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Effective 10/08/2020 to 12/09/2020



NOTE
 TYPE XX-B POLE SHALL ALSO SUPPORT THE ALTERNATE LOADING SHOWN ABOVE.

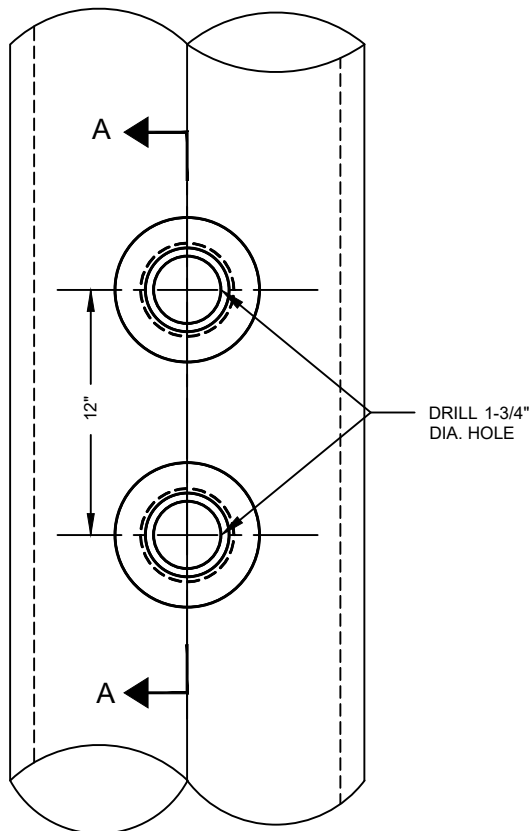
DESIGN CRITERIA
 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. (FATIGUE LOADS SPECIFIED IN CHAPTER 11 NOT REQUIRED.)
 DESIGN MINIMUM YIELD STRENGTH FOR TUBULAR MEMBERS SHALL BE LIMITED TO 48,000 PSI FOR COLD WORKED MATERIALS AND 50,000 PSI FOR NON-COLD WORKED MATERIALS.
 WIND VELOCITY 90 MPH ISOTACH.

DEVICE	DESCRIPTION	PROJ. AREA (FT ²)	WEIGHT (LBS)
(A) SIGNAL	12"- 3 SEC. W/ BACKPLATES M-2	9.80	40
(B) SIGN	R3-5 24" X 30"	5.00	15
(C) SIGN	R3-4 24" X 24"	4.00	10
(D) SIGNAL	12"- 4 OR 5 SEC. W/ BACKPLATES M-4 OR M-5	13.08	80
(E) SIGNAL	R10-12 OR R10-12F 30" X 30"	13.44	100
(F) SIGNAL	STREET NAME-FREE SWINGING-1.8 X 8	17.34	80
(G) SIGNAL	DUAL-12"- 3 SEC. W/ BACKPLATES	8.00	40
(H) SIGNAL	DUAL-PEDESTRIAN	8.00	40

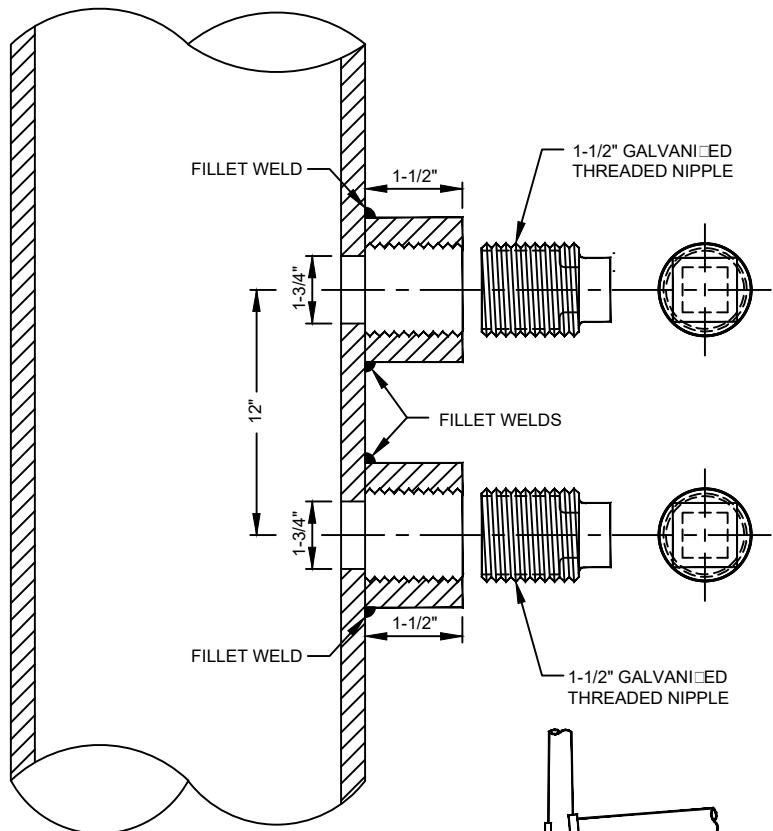
SPECIFICATION REFERENCE	

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
LOADING INFORMATION						
DATE 07-01-17	DWG. NO.	810	SHEET	3 OF 3		

LOADING INFORMATION

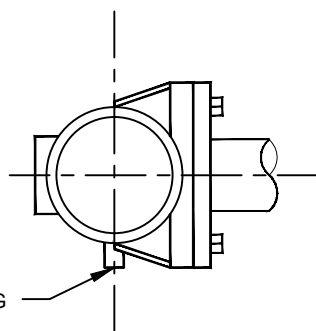


DRILLING DETAIL



NIPPLE DETAIL
SECTION A-A

PLACEMENT DETAIL
TOP VIEW

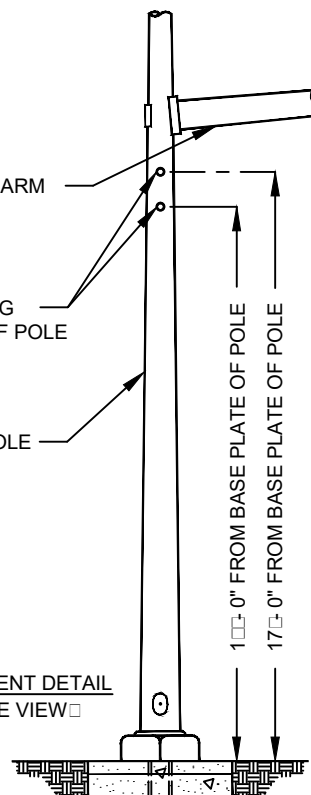


RED LIGHT RUNNING
INDICATOR

INSTALL RED LIGHT RUNNING
INDICATORS 90 DEGREES OF POLE
MAST ARM

TRAFFIC SIGNAL POLE

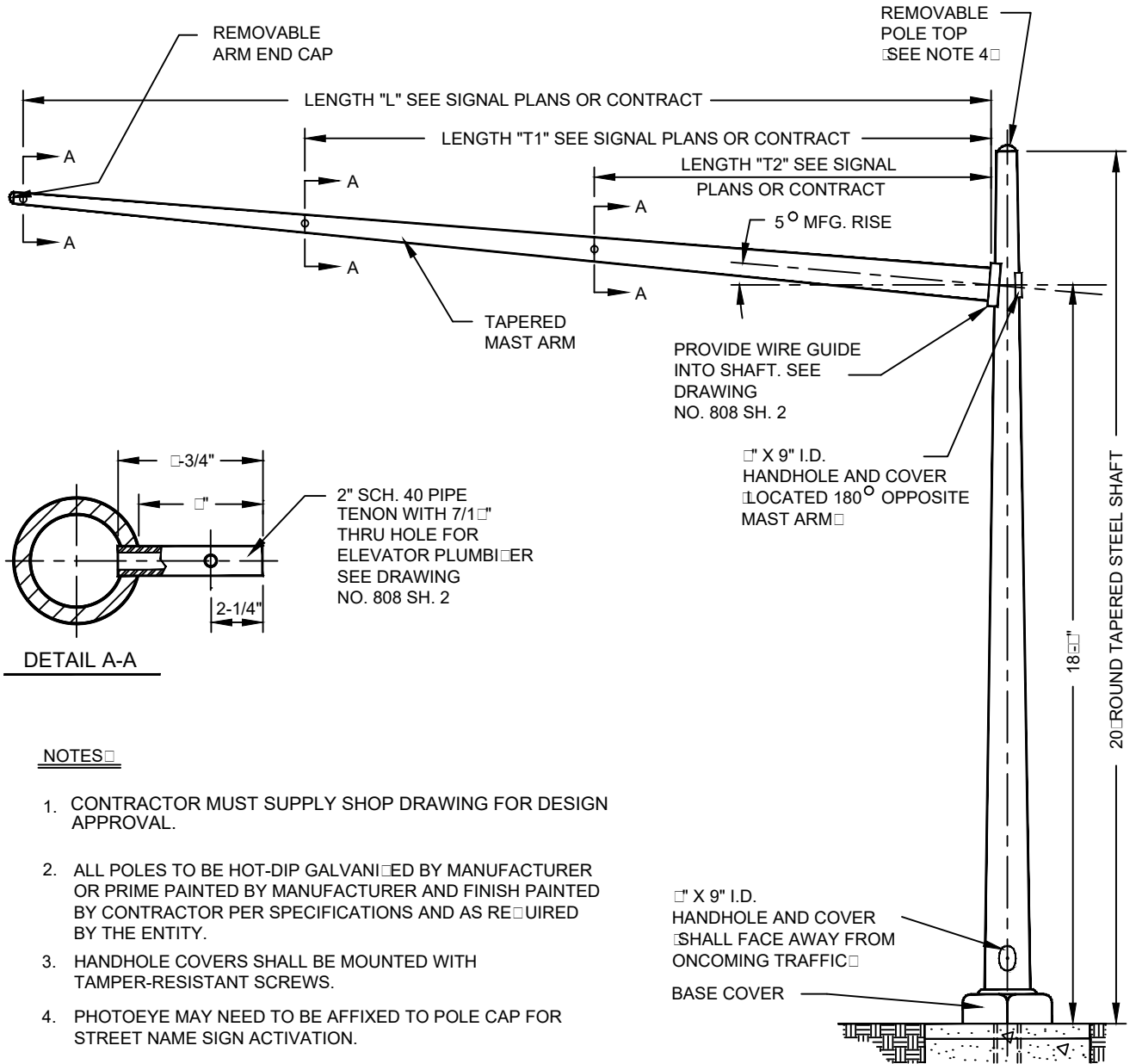
PLACEMENT DETAIL
SIDE VIEW



NOTES

1. CONTRACTOR TO INSTALL RED LIGHT RUNNING INDICATORS, MICHAIN MODELS M1385 (RED) M1448 (BLUE) OR APPROVED EQUAL AS INDICATED BY THE TRAFFIC ENGINEER.
2. RED THROUGH INDICATOR SHALL BE MOUNTED 1' ABOVE POLE BASE PLATE AND BLUE LEFT INDICATOR SHALL BE MOUNTED 17' ABOVE POLE BASE PLATE AND SHALL FACE AWAY FROM ONCOMING TRAFFIC.
3. RED LIGHT RUNNING INDICATOR L.E.D. HOUSING SHALL BE FIELD ADJUSTED. PLEASE CONTACT THE TRAFFIC ENGINEER FOR COORDINATION.
4. CONTRACTOR SHALL WIRE INDICATORS DIRECTLY TO BUSS IN "J" BOX PER CALL OUT PHASING IN POLE SCHEDULE ON TRAFFIC SIGNAL PLANS.

AGENCY APPROVED		C			
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
SUPPLEMENTAL DRAWING					
RED LIGHT RUNNING INDICATOR INSTALLATION DETAILS					
DATE	9-14-0	DWG. NO.	811.S1		



NOTES

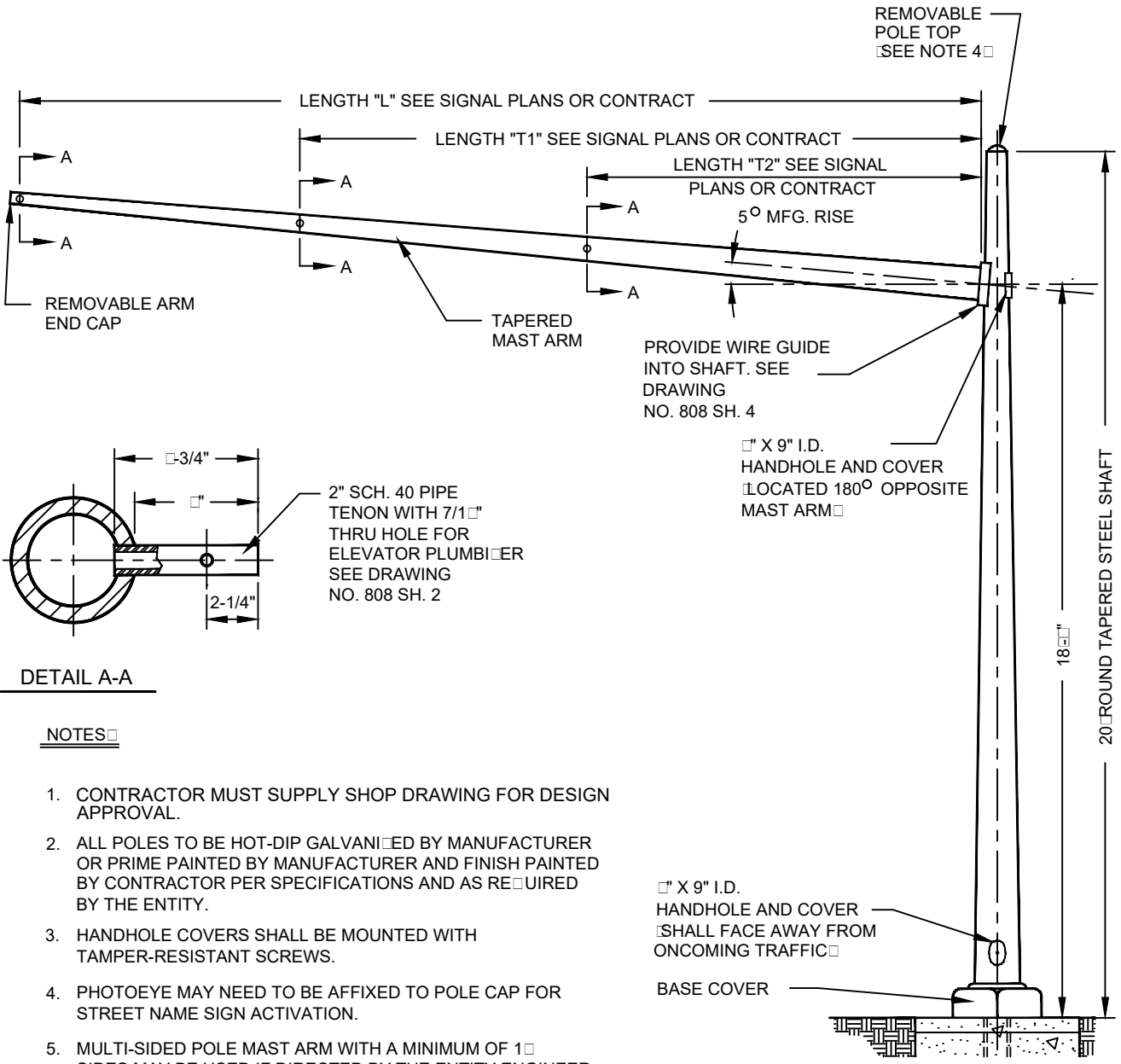
1. CONTRACTOR MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.
5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 1 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 90 MPH WINDS.
 SEE DRAWING NO. 808 SHEET 5 FOR LOADING INFORMATION

FOR OTHER DETAILS SEE DRAWING NO. 808 SHTS. 2
 FOR "H" TYPE FOUNDATION SEE DRAWING NO. 721.

AGENCY APPROVED		B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA							
TYPE XX 20 FT. SIGNAL POLE 45 FT. OR LESS MAST ARMS							
DATE 07-01-17	DWG. NO.	812	SHEET		1 OF 2		

Effective 10/08/2020 to 12/09/2020



DETAIL A-A

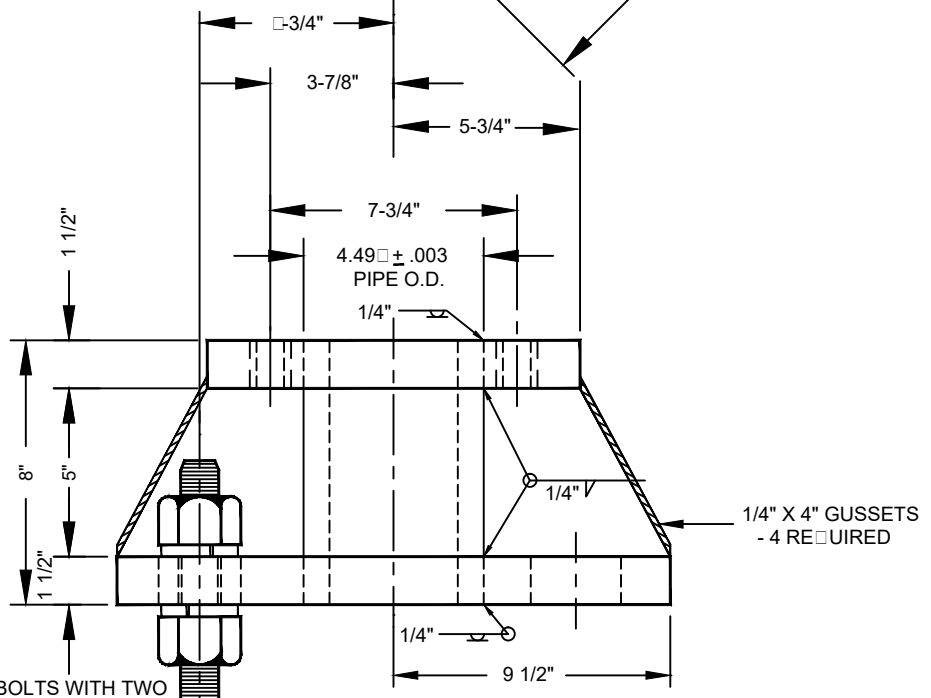
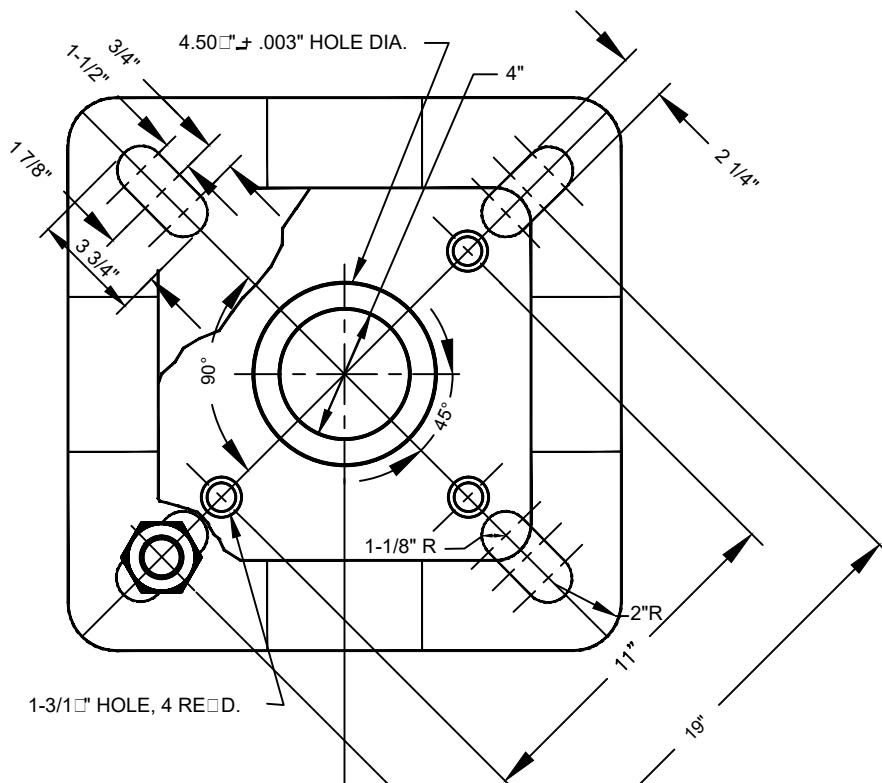
NOTES

1. CONTRACTOR MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.
5. MULTI-SIDED POLE MAST ARM WITH A MINIMUM OF 1 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 90 MPH WINDS.
 SEE DRAWING NO. 808 SHEET 5 FOR LOADING INFORMATION
 FOR OTHER DETAILS SEE DRAWING NO. 808 SHTS. 4
 FOR "L" TYPE FOUNDATION SEE DRAWING NO.722.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
TYPE XX-A-20 FT. 50 FT. THRU 0 FT. MAST ARMS SIGNAL POLE						
DATE 07-01-17	DWG. NO.	812	SHEET	2 OF 2		

Effective 10/08/2020 to 12/09/2020

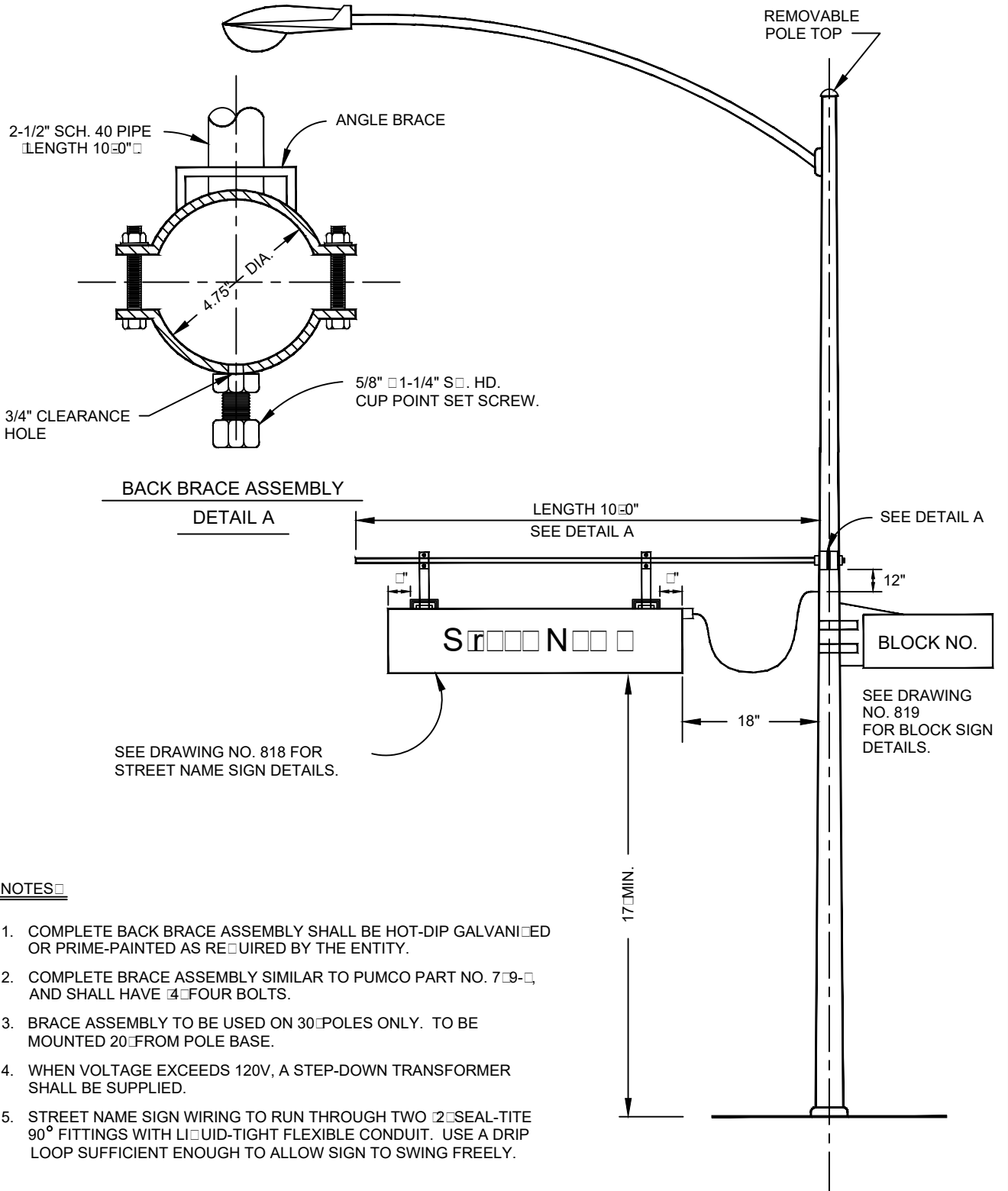


2" HOT-DIP GALV. ANCHOR BOLTS WITH TWO HOT-DIP GALV. HEX. HD. NUTS & WASHERS PER BOLT 4 REQUIRED FOR FOUNDATION. SEE DRAWING NO. 722.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
BASE ADAPTOR PLATE FOR TYPE "L" FOUNDATION						
DATE 12-12-9	DWG. NO.	813	SHEET	2 OF 2		

SPECIFICATION REFERENCE	

Effective 10/08/2020 to 12/09/2020

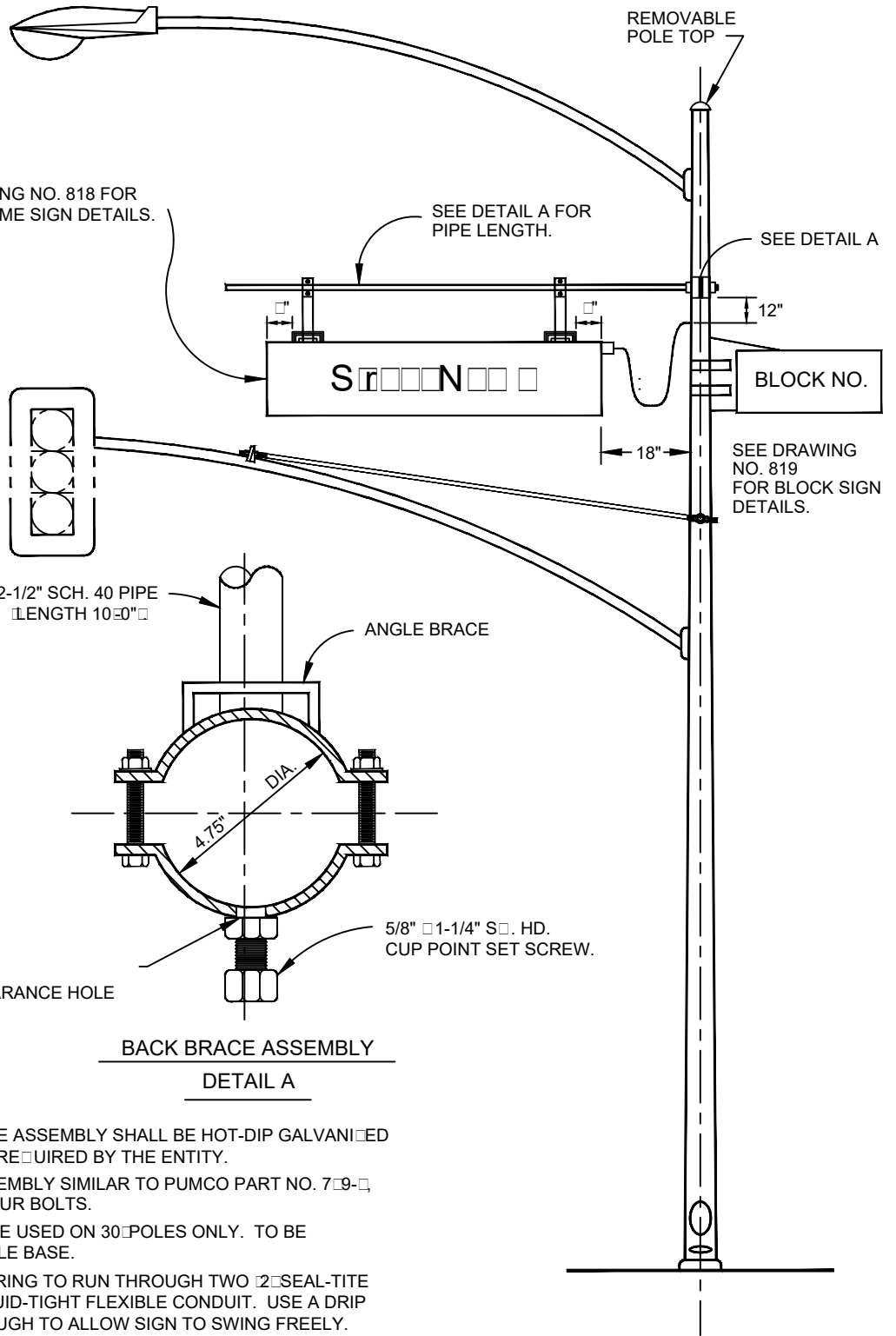


NOTES

1. COMPLETE BACK BRACE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.
2. COMPLETE BRACE ASSEMBLY SIMILAR TO PUMCO PART NO. 719-1 AND SHALL HAVE FOUR BOLTS.
3. BRACE ASSEMBLY TO BE USED ON 30" POLES ONLY. TO BE MOUNTED 20" FROM POLE BASE.
4. WHEN VOLTAGE EXCEEDS 120V, A STEP-DOWN TRANSFORMER SHALL BE SUPPLIED.
5. STREET NAME SIGN WIRING TO RUN THROUGH TWO 1/2" SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	STREETLIGHT POLE WITH ILLUMINATED STREET NAME SIGN						
	DATE 12-12-9	DWG. NO.	814				



NOTES

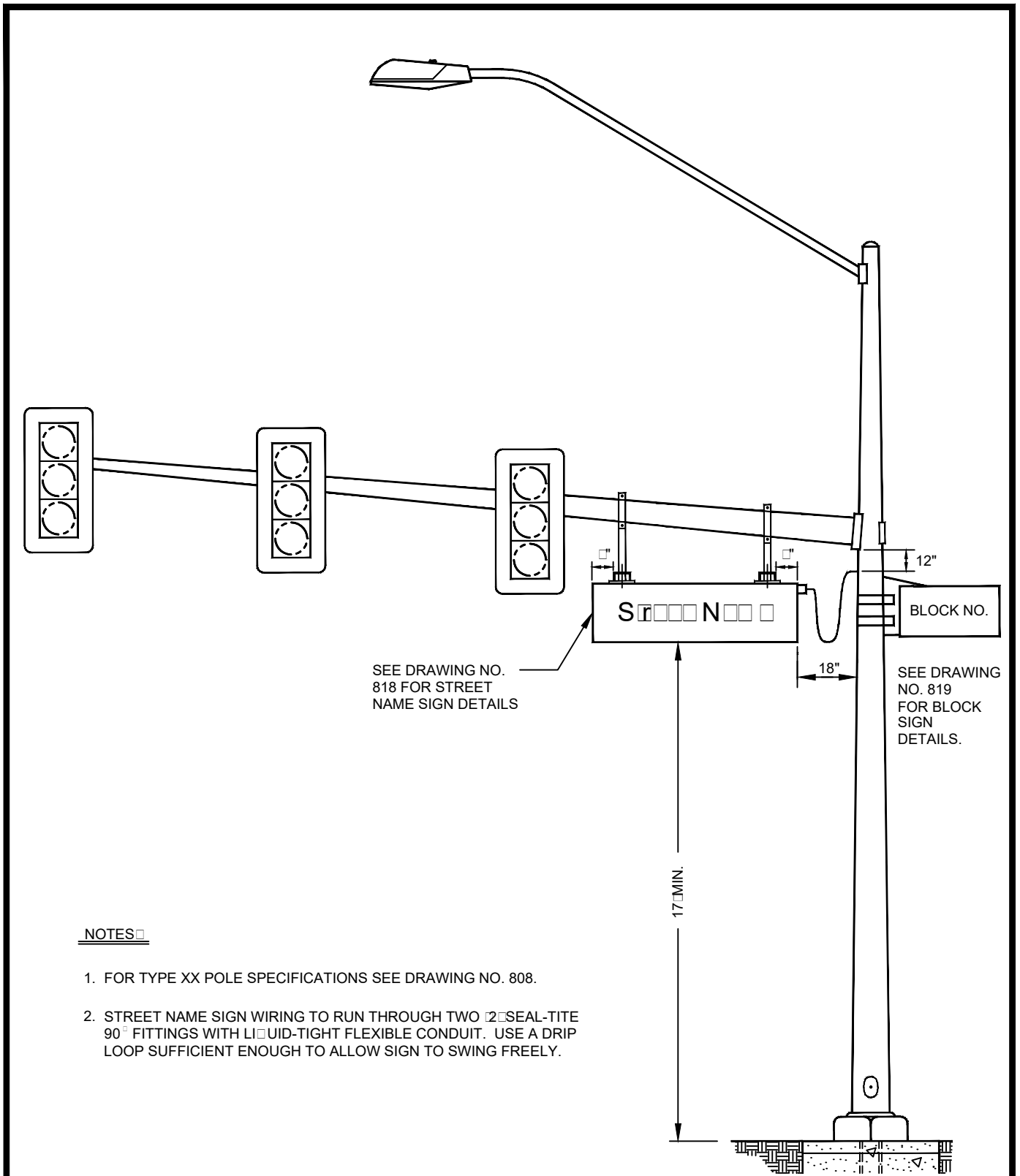
1. COMPLETE BACK BRACE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.
2. COMPLETE BRACE ASSEMBLY SIMILAR TO PUMCO PART NO. 709 AND SHALL HAVE FOUR BOLTS.
3. BRACE ASSEMBLY TO BE USED ON 30 POLES ONLY. TO BE MOUNTED 24" FROM POLE BASE.
4. STREET NAME SIGN WIRING TO RUN THROUGH TWO SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE III POLE WITH ILLUMINATED STREET NAME SIGN	
DATE 12-12-9	DWG. NO. 815

Effective 10/08/2020 to 12/09/2020



NOTES

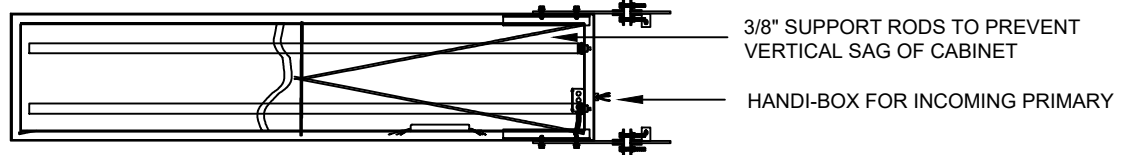
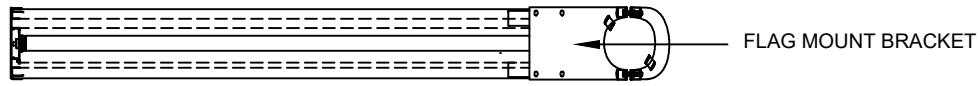
1. FOR TYPE XX POLE SPECIFICATIONS SEE DRAWING NO. 808.
2. STREET NAME SIGN WIRING TO RUN THROUGH TWO 1/2" SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPE XX POLE WITH ILLUMINATED STREET NAME SIGN	
DATE	4-9-98
DWG. NO.	81

Effective 10/08/2020 to 12/09/2020

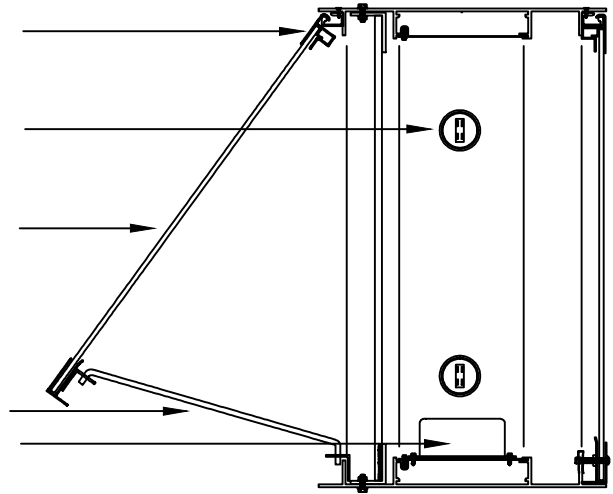


STD. 12" EXTRUSION WITH 1-1/2" TOP HINGE RETAINER SYSTEM

STD. 8" CWHO LAMPS ON 10" CENTERS HORIZONTALLY

WHITE POLYCARBONATE FACE

ALUMINUM PROP ROD FOR SERVICE BALLAST ATTACHED TO EXTRUDED WIREWAY



NOTES

1. SIGN SHALL BE DOUBLE FACED.
2. ALUMINUM EXTRUSION CABINET 12" DEEP - MILL FINISH WITH ALL ALUMINUM INTERNAL STRUCTURE.
3. TOP-HINGED RETAINER SYSTEM WITH PROP ROD FOR ACCESS AND SERVICE.
4. T12 800MA CWHO FLUORESCENT ILLUMINATION INTERNALLY.
5. SIGN PANEL SHALL BE WHITE WIDE-ANGLE PRISMATIC TRANSLUCENT REFLECTIVE SHEETING, EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVERLAYED WITH GREEN ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A POLYCARBONATE CLEAR SUBSTRATE, 0.177" THICK.
- LETTERS SHALL BE 8" SERIES E AND UNLESS OTHERWISE SPECIFIED BY THE TRAFFIC ENGINEER, SHALL BE ALL UPPERCASE WITH NO STREET NAME SUFFIX. IF NECESSARY TO MAKE SPACING FIT, REDUCE TO 8" SERIES D. SPACING BETWEEN LETTERS MAY BE INCREASED BY UP TO 25% MAX TO ACHIEVE 4" END SPACES.
7. STEEL BRACKETS SHALL BE USED FOR FLAG MOUNT POLE ATTACHMENT.
8. THE USE OF THE POLE MOUNTED STREET NAME SIGN SHALL BE APPROVED BY THE ENTITY ENGINEER.

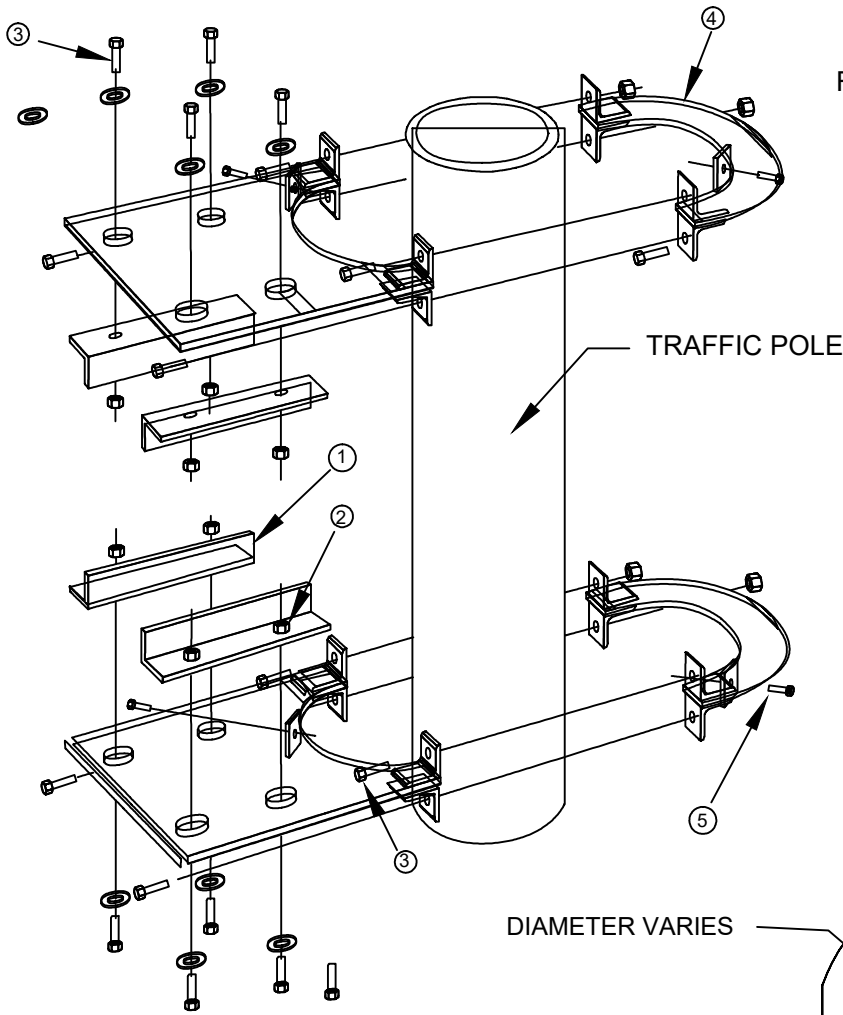
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ALTERNATIVE POLE MOUNTED STREET
NAME SIGN INTERNALLY ILLUMINATED

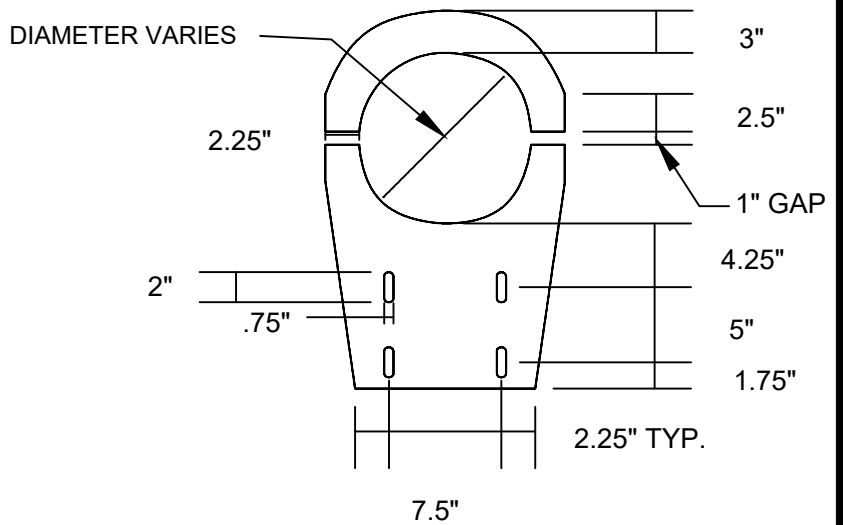
DATE 11/10/05	DWG. NO. 818.1	SHEET 1 OF 3
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FLAG MOUNT ATTACHMENT DETAIL
NOT TO SCALE

- ① ALUMINUM ANGLE WELDED TO INSIDE OF EXTRUDED CABINET
- ② NUTS WELDED TO ANGLE
- ③ 1/2" X 1 1/2" BOLTS
- ④ BRACKET FABRICATED FROM 3/8" PLATE STEEL
- ⑤ 5/16" SET SCREWS INTO POLE

BRACKET DETAIL
NOT TO SCALE

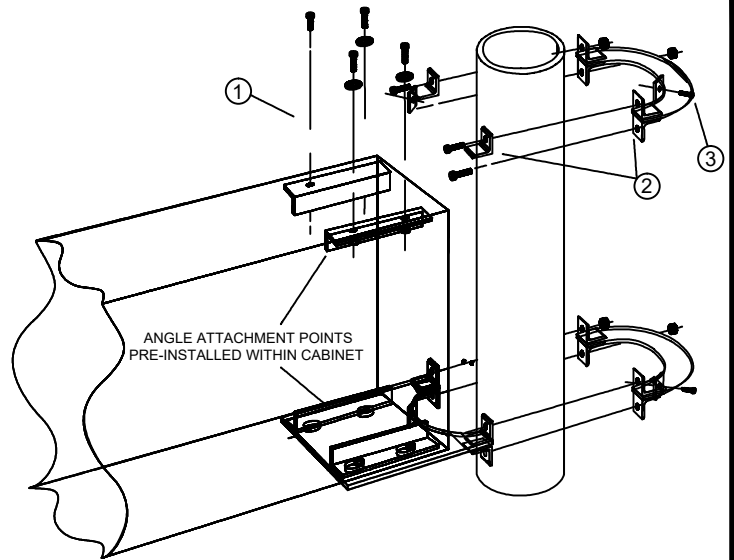


Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	ALTERNATIVE POLE MOUNTED STREET NAME SIGN INTERNALLY ILLUMINATED ATTACHMENT DETAIL						
	DATE 11/10/05	DWG. NO.	818.1	SHEET	2 OF 3		

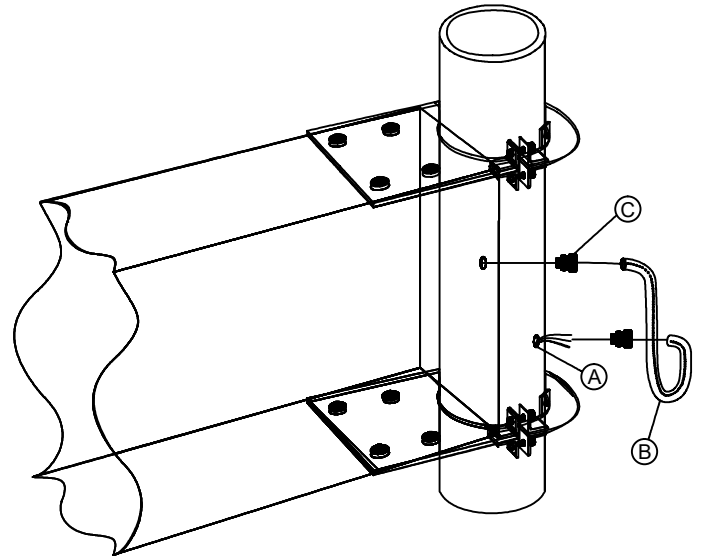
INSTALLATION INSTRUCTIONS

- ATTACH BRACKETS ① TO CABINET END AT TOP AND BOTTOM WITH BOLTS PROVIDED LOSSELY TIGHTEN BOLTS [SNUG]
- LIFT CABINET WITH BRACKETS TO POLE AT FINISHED HEIGHT USING A NYLON LIFTING SNAP NEAR THE BRACKETS [WHERE BALANCED]
- ATTACH BRACKET HALVES ② TOGETHER AROUND POLE WITH PROVIDED HARDWARE AS SHOWN.
- MOVE LIFTING STRIP TO CENTER OF CABINET □ LEVEL THEN TIGHTEN BOLTS INTO CABINET.
- ATTACH SET SCREWS ③ THROUGH BRACKET INTO POLE AS SHOWN.
- HOOK UP ELECTRICAL CONNECTION [SEE PAGE 2 FOR AN EXAMPLE]



WIRING RECOMMENDATIONS

- LOCATE □ DRILL A 3/4" DIA. HOLE ① THRU POLE. THREAD HOLE WITH 1/2" PIPE THREAD TAP.
- PULL WIRES FROM GROUND THRU TAPPED HOLE GUIDE WIRES TO AVOID SCRAPING INSULATION.
- ASSEMBLE LIQUID TIGHT 1/2" CONDUIT ② FITTING ③ TO CONNECT POLE TO CABINET.
- FEED WIRES THRU CONDUIT □ INTO CABINET, USE A 2X4 HANDY BOX INSIDE OF CABINET TO FACILITATE WIRE PULLING.
- AFTER FEEDING WIRES, THEN THREAD FITTINGS INTO THREADED HOLE IN POLE □ CABINET.
- WIRE BALLAST INSIDE CABINET AS REQUURED.

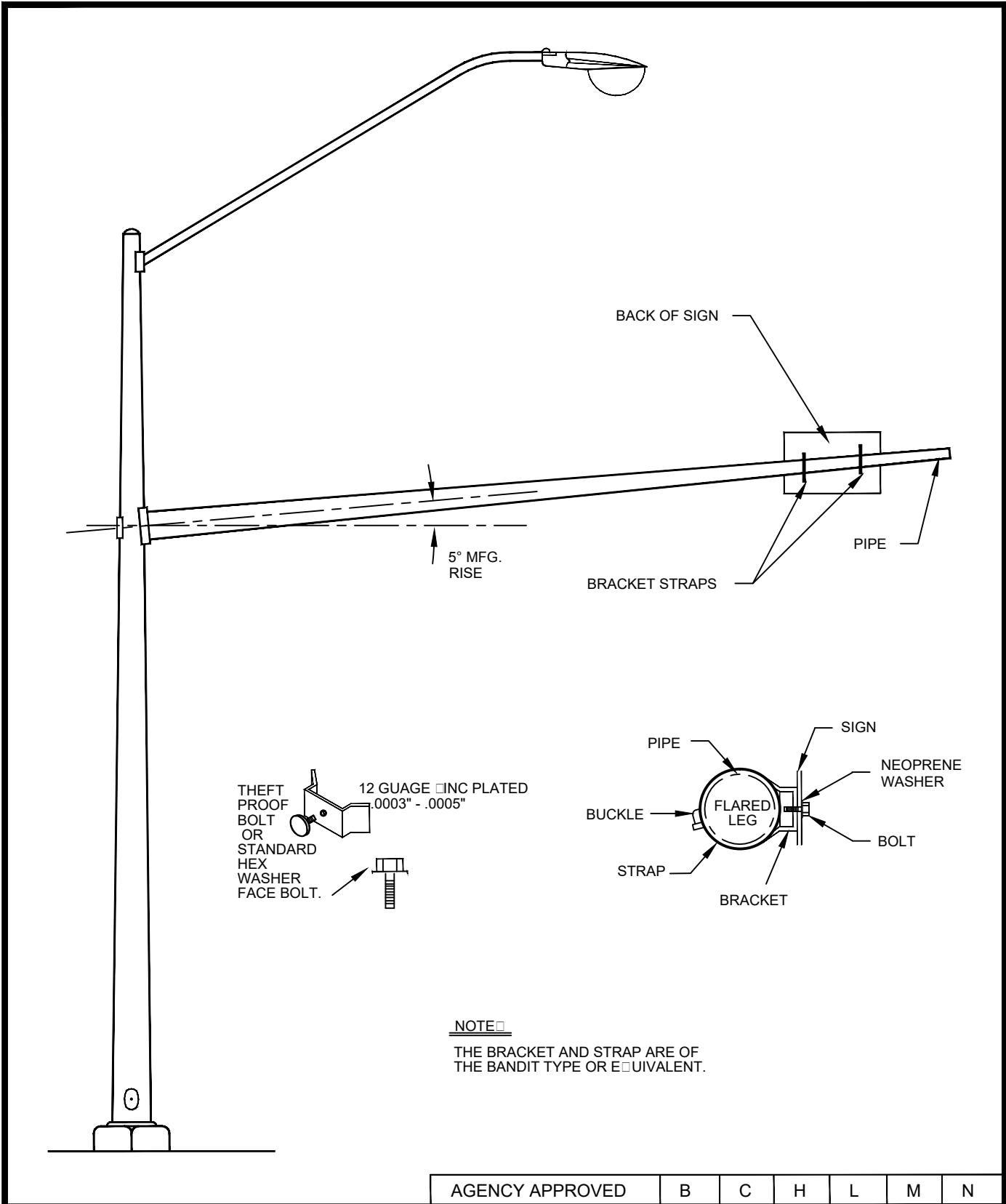


NOTE □ THE STREET NAME SIGN SHALL BE MOUNTED 18" ABOVE THE MAST ARM

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	ALTERNATIVE POLE MOUNTED STREET NAME SIGN INTERNALLY ILLUMINATED BRACKET DETAIL						
	DATE 11/10/05	DWG. NO.	818.1	SHEET	3 OF 3		

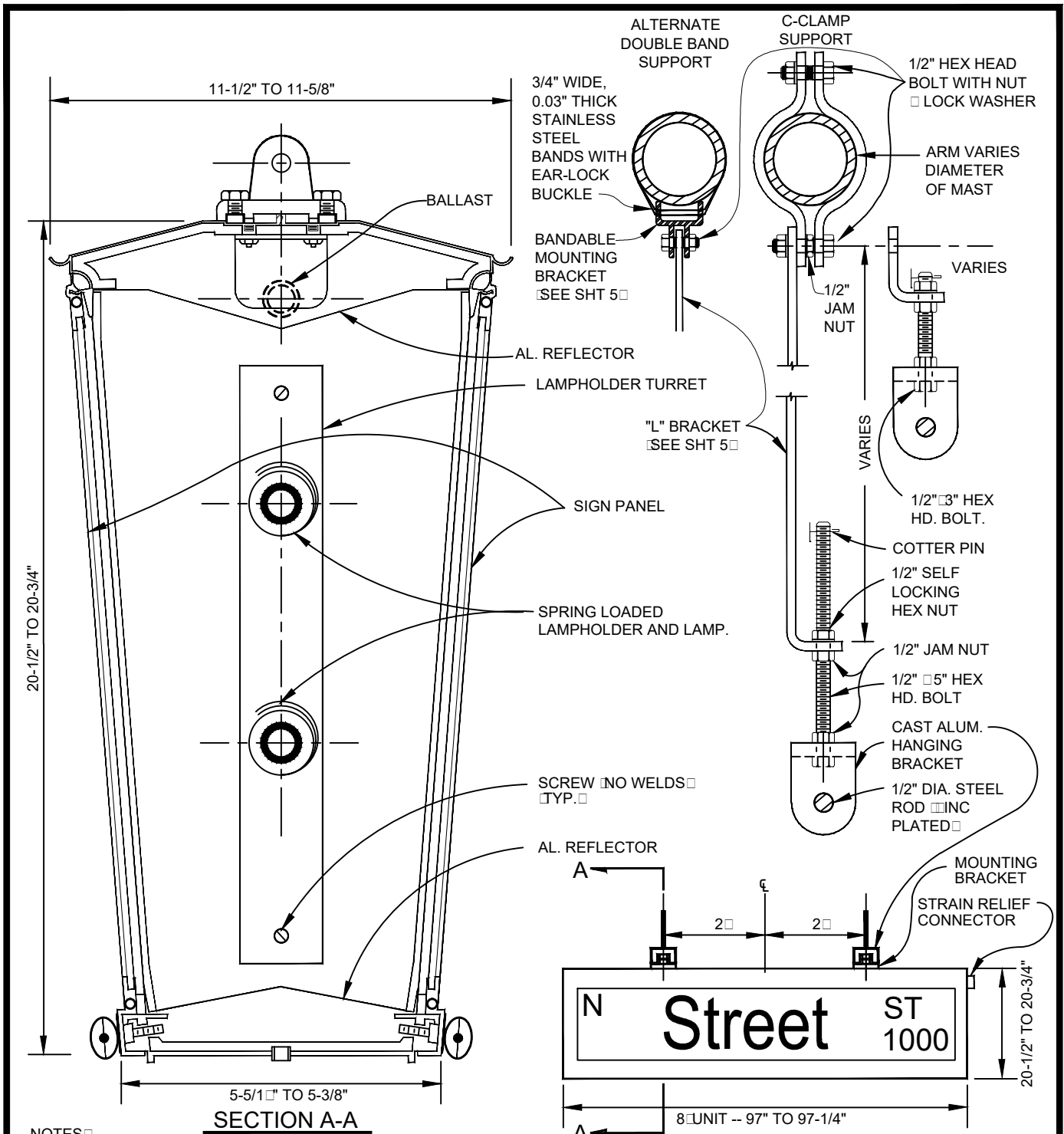
Effective 10/08/2020 to 12/09/2020



NOTE

THE BRACKET AND STRAP ARE OF THE BANDIT TYPE OR EQUIVALENT.

AGENCY APPROVED						B	C	H	L	M	N
SPECIFICATION REFERENCE						UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
						SIGN MOUNTING ILLUSTRATION					
DATE		4-9-98		DWG. NO.		818.2					

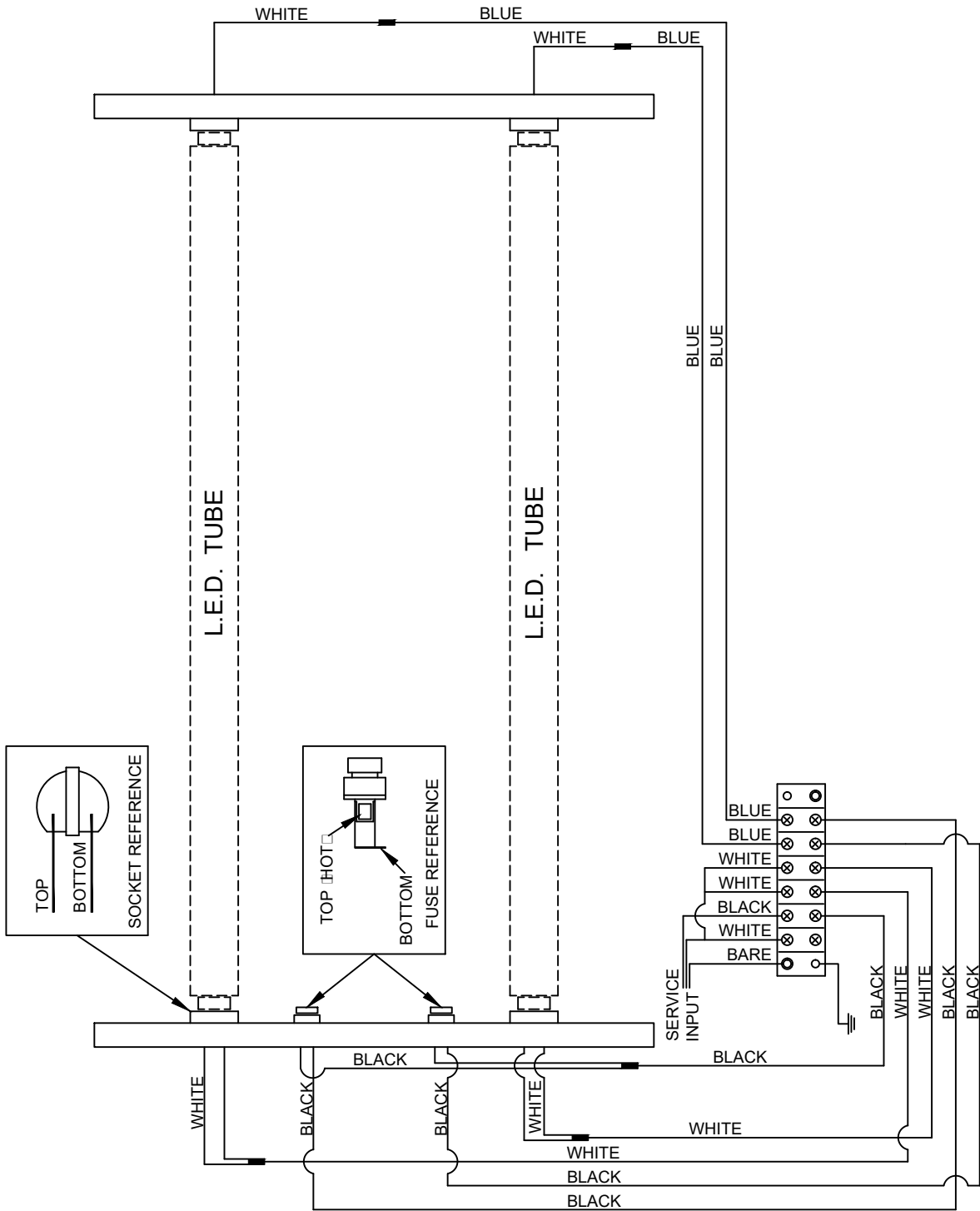


NOTES

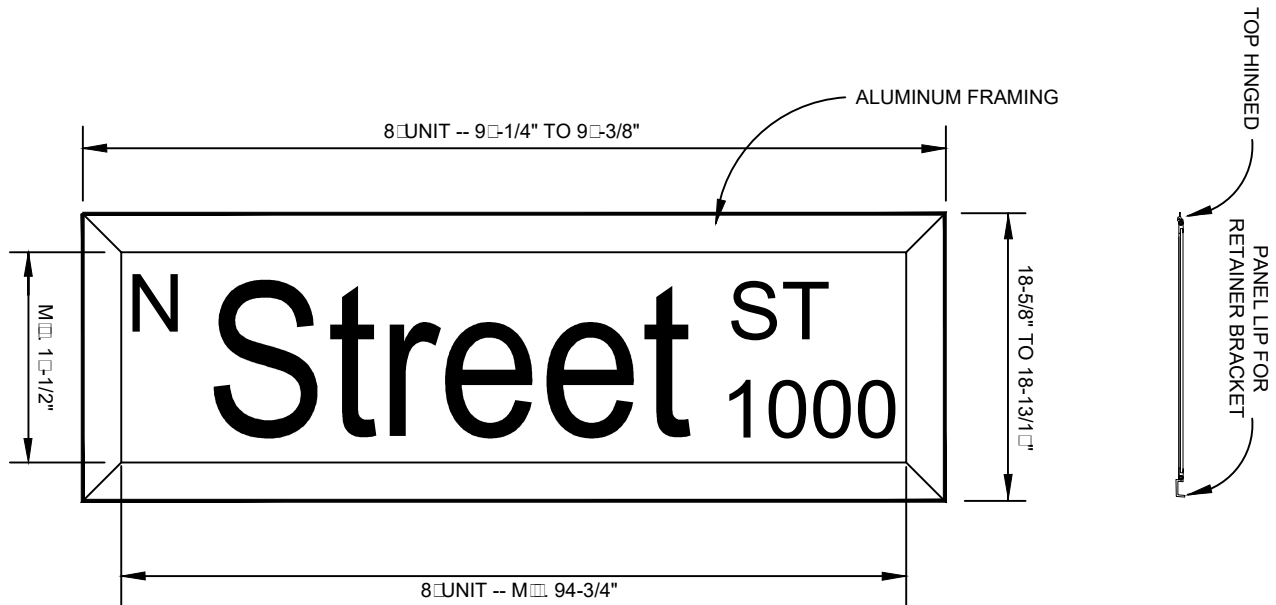
1. SIGN ASSEMBLY SHALL INCLUDE SIGN ENCLOSURE AND TWO SIGN PANELS.
2. TWO 2-ADVANCE BALLAST IOP-2P59-SC, OR AN APPROVED EQUIVALENT BY THE ENGINEER, SHALL BE INSTALLED FOR EACH SIGN ENCLOSURE.
3. SEE SHEETS 2 AND 3 FOR WIRING DIAGRAMS.
4. SEE SHEET 4 FOR SIGN PANEL DETAILS.
5. JAM NUT TO SECURE "L" BRACKET.

	AGENCY APPROVED	B	C	H	L	M
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
	SUPPLEMENTAL DRAWING					
	ILLUMINATED STREET NAME SIGN - ENCLOSURE					
	DATE 01-01-13	DWG. NO.	818.S1	SHEET 1 OF 5		

Effective 10/08/2020 to 12/09/2020



SPECIFICATION REFERENCE		AGENCY APPROVED					B	C	H	L	M
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA									
		SUPPLEMENTAL DRAWING									
		ILLUMINATED STREET NAME SIGN - WIRING DIAGRAM - L.E.D. TUBE									
		DATE 01-01-13	DWG. NO.		818.S1			SHEET 3 OF 5			



FRONT VIEW

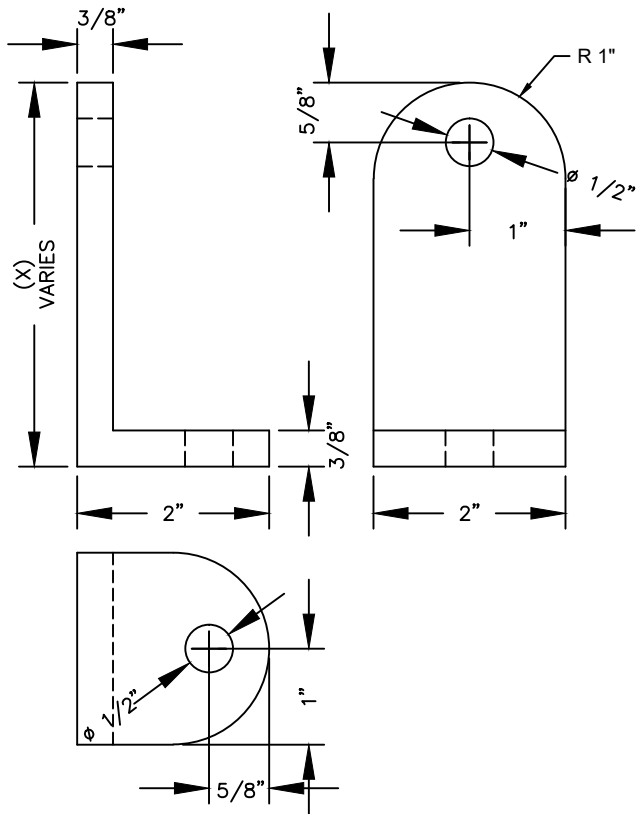
SIDE VIEW

NOTES

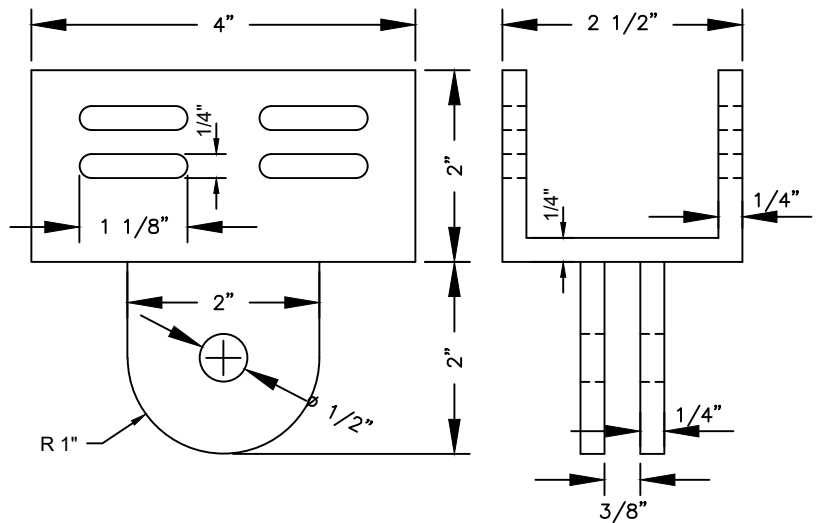
1. SIGN SHALL BE DOUBLE FACED.
 2. SIGN PANELS SHALL BE FABRICATED OF CLEAR, IMPACT RESISTANT, ACRYLIC SHEETING WITH ALUMINUM FRAMING.
 3. SIGN PANEL SHALL BE COVERED WITH WHITE, WIDE-ANGLE, TRANSLUCENT PRISMATIC TYPE XI REFLECTIVE SIGN FACE SHEETING, AND EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVERLAID WITH GREEN ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM.
 4. SHEETING SHALL BE APPLIED IN A VERTICAL ORIENTATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
 5. SIGN PANEL SHALL BE CAPABLE OF WITHSTANDING WINDS OF 90 MPH OR GREATER WITHOUT DAMAGE OR SEPARATION FROM THE SIGN ENCLOSURE.
- LETTERS FOR STREET NAMES SHALL BE 12" SERIES D, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, AND SHALL BE UPPER AND LOWERCASE. IF NECESSARY TO MAKE SPACING FIT, 12" SERIES C LETTERS MAY BE USED. LOWER CASE LETTERS SHALL BE 9" IN HEIGHT. LETTERS FOR CARDINAL DIRECTION, STREET NAME SUFFIX, AND BLOCK NUMBER SHALL BE 5" SERIES C, AND SHALL BE IN ALL UPPER CASE.
7. APPROVAL OF SHOP DRAWING OF SIGNFACE LAYOUT BY THE ENGINEER IS REQUIRED PRIOR TO FABRICATION OF SIGN PANELS.

AGENCY APPROVED	B	C	H	L	M	
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SUPPLEMENTAL DRAWING						
ILLUMINATED STREET NAME SIGN - SIGN PANEL						
DATE 01-01-13	DWG. NO.	818.S1	SHEET 4 OF 5			

SPECIFICATION REFERENCE	

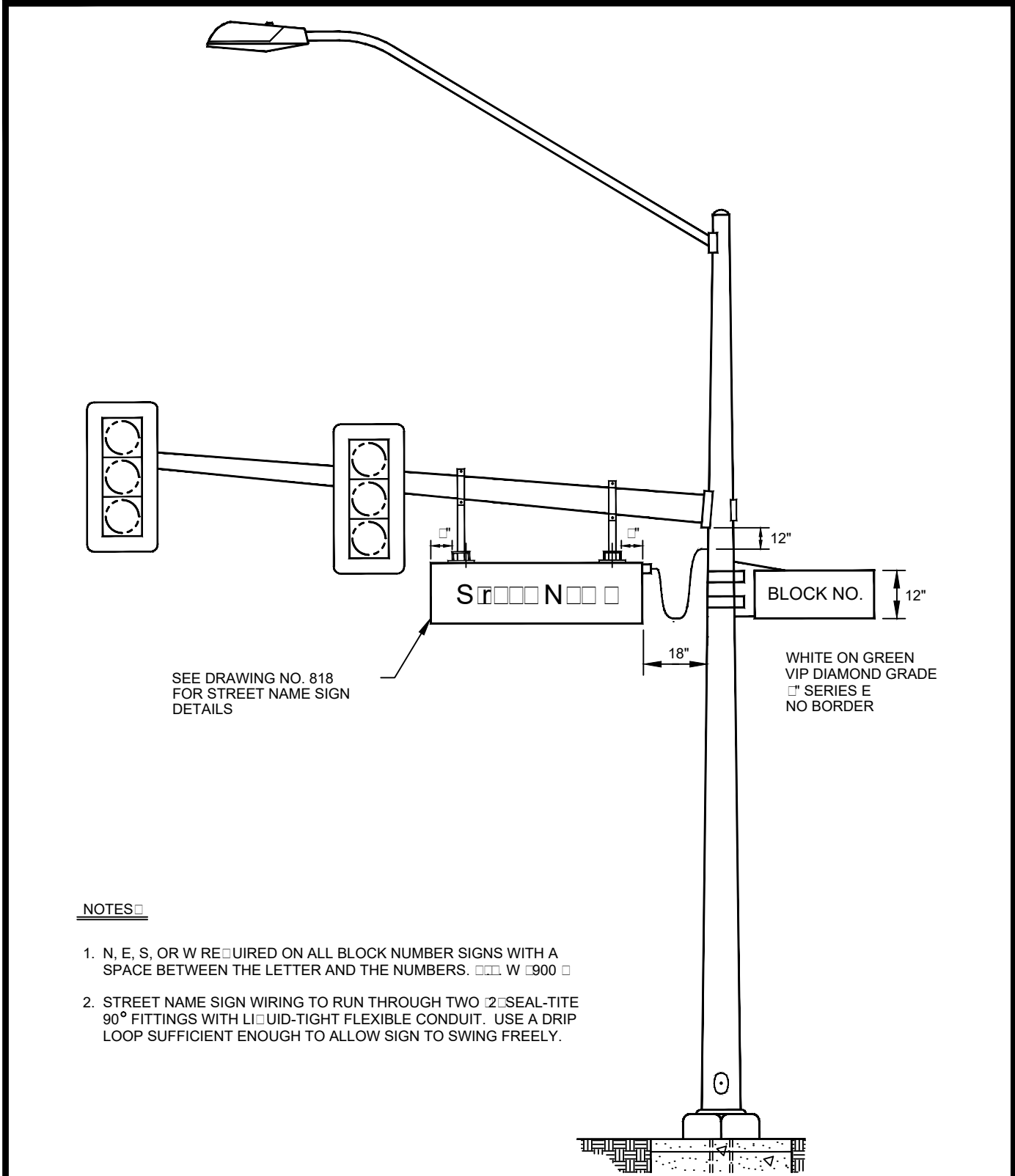


"L" BRACKET



BANDABLE MOUNTING BRACKET

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		SUPPLEMENTAL DRAWING					
		ILLUMINATED STREET NAME SIGN - MOUNTING BRACKETS					
		DATE 01-01-13	DWG. NO.	818.S1	SHEET 5 OF 5		



SEE DRAWING NO. 818 FOR STREET NAME SIGN DETAILS

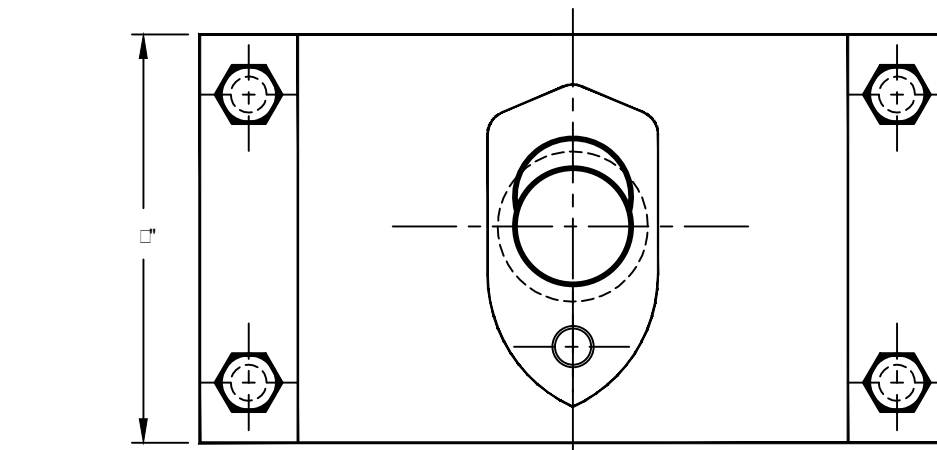
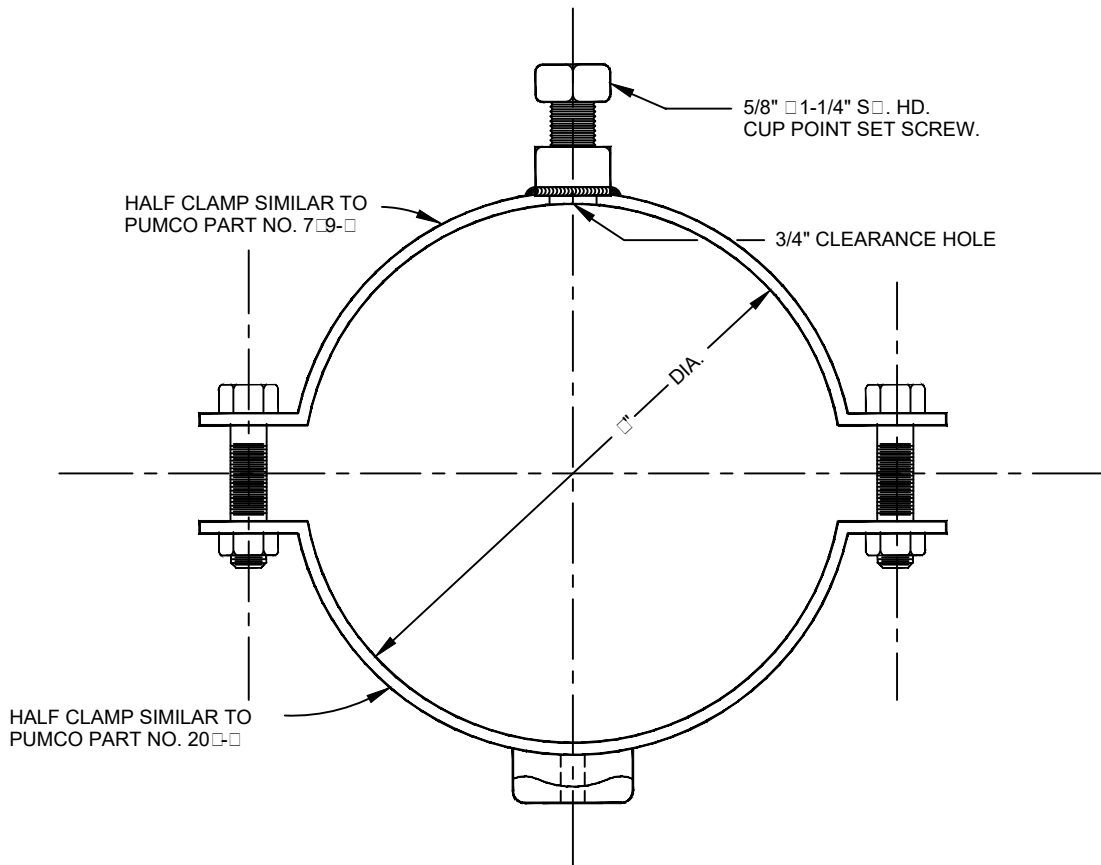
WHITE ON GREEN
VIP DIAMOND GRADE
1/4" SERIES E
NO BORDER

NOTES

1. N, E, S, OR W REQUIRED ON ALL BLOCK NUMBER SIGNS WITH A SPACE BETWEEN THE LETTER AND THE NUMBERS. 1/4" W 900
2. STREET NAME SIGN WIRING TO RUN THROUGH TWO 1/2" SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	BLOCK NUMBER SIGN						
	DATE	4-9-98	DWG. NO.	819			



NOTES

1. COMPLETE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.
2. COMPLETE ASSEMBLY SIMILAR TO PUMCO PART NO. 207-79.
3. THIS ASSEMBLY TO BE USED ON EXISTING 30-POLES ONLY.

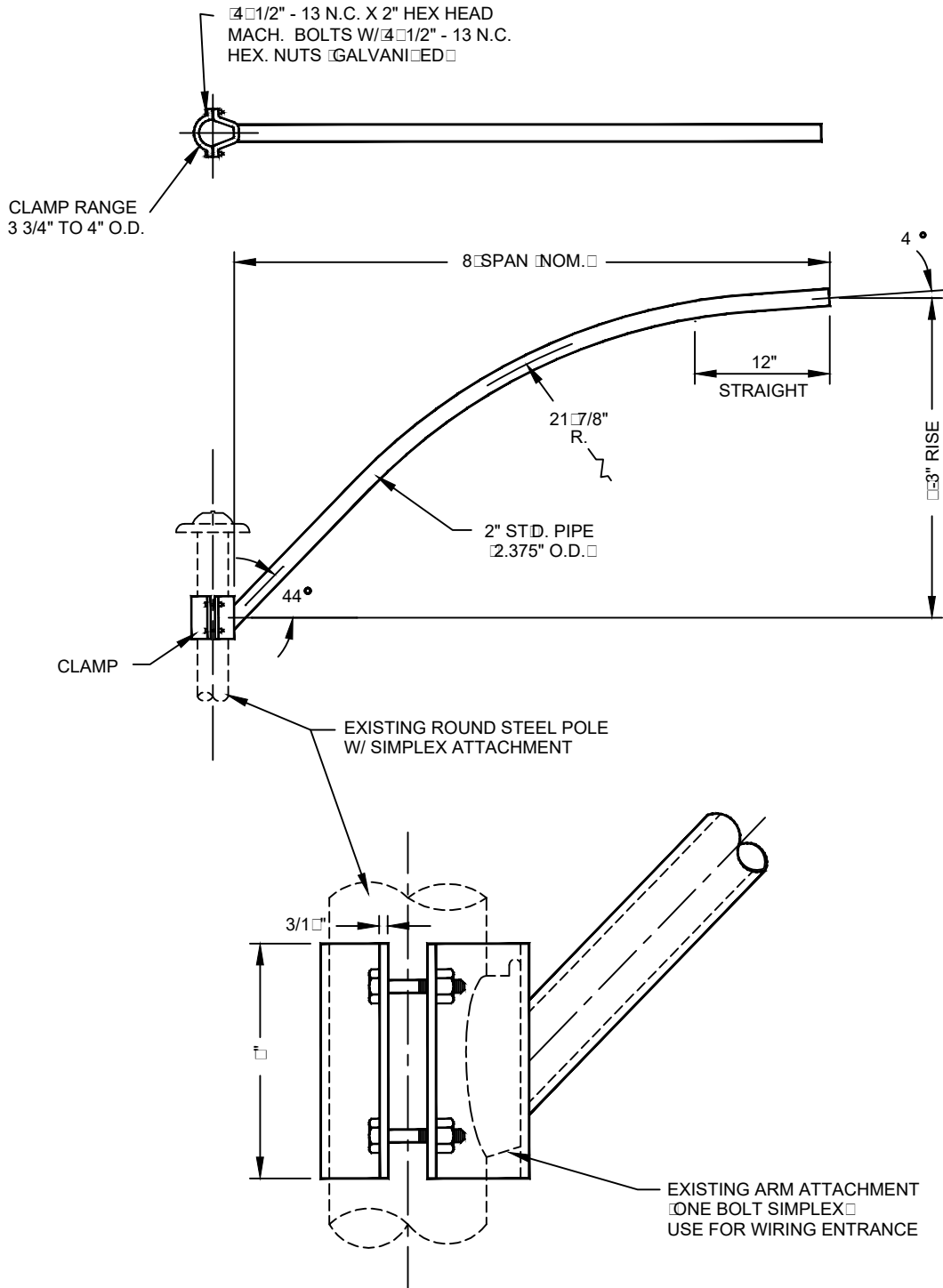
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ONE BOLT SIMPLEX ARM ATTACHMENT
CLAMP ASSEMBLY

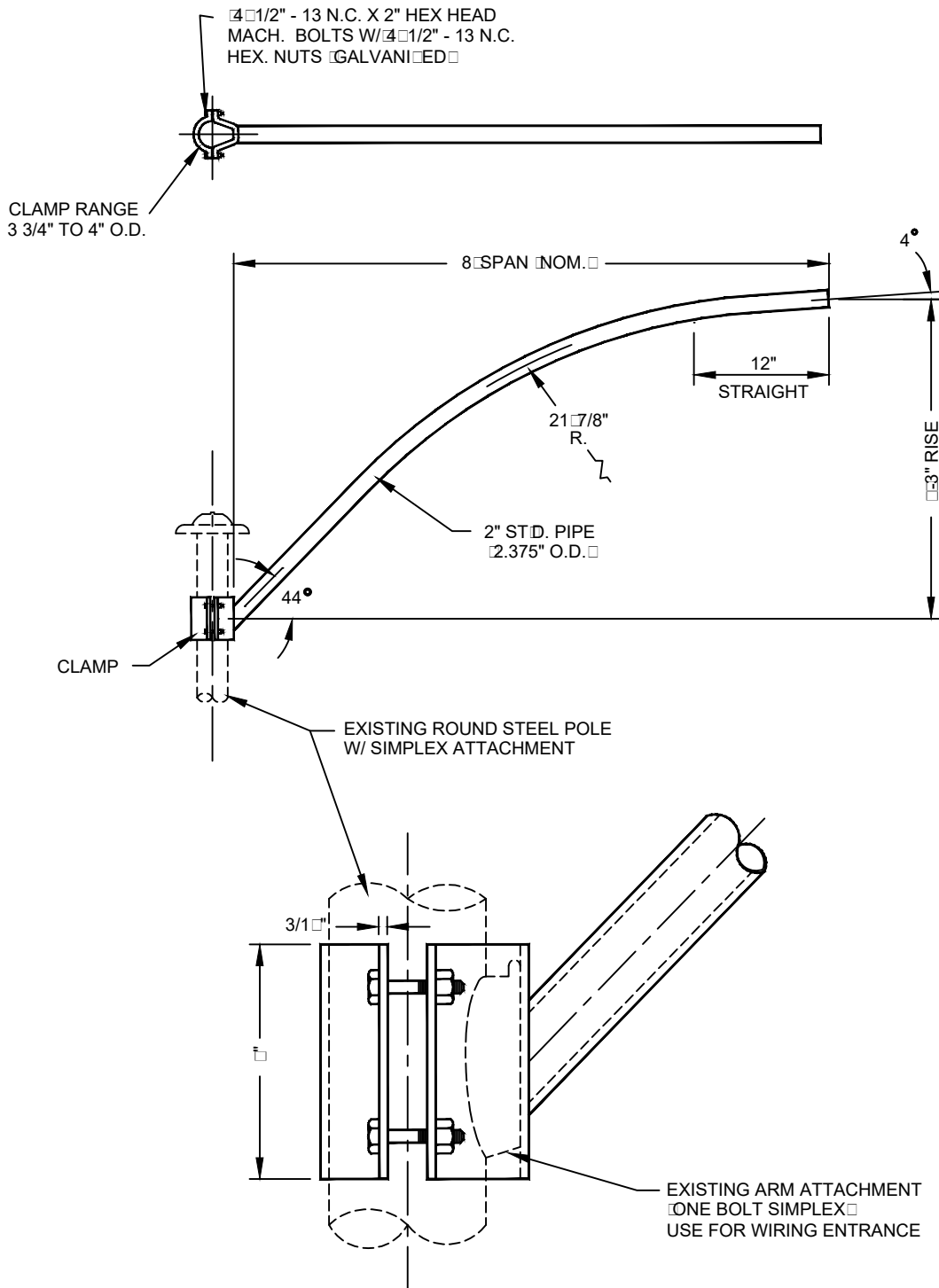
DATE 12-12-9	DWG. NO. 821	SHEET	1 OF 2
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BRACKET RATING

MAX. LUMINAIRE AREA 2.7 FT²
 MAX. LUMINAIRE WT. 57 LBS.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
RETROFIT STREETLIGHT MAST ARM						
DATE	DWG. NO.	821	SHEET	2 OF 2		



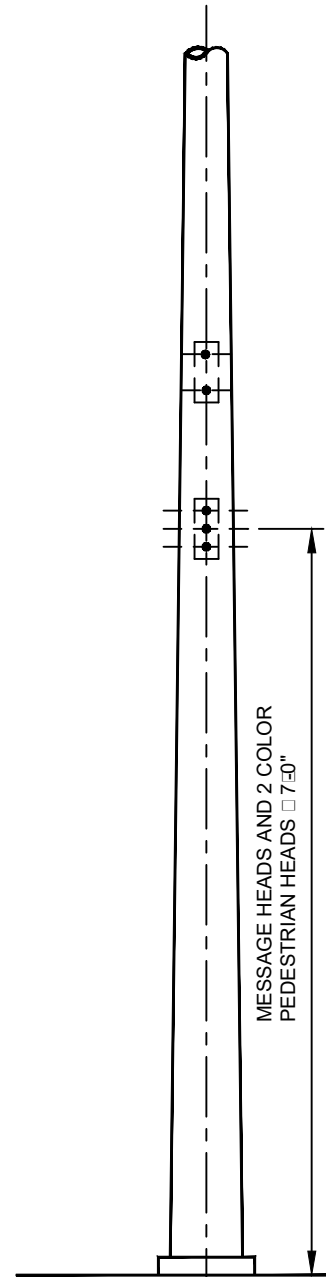
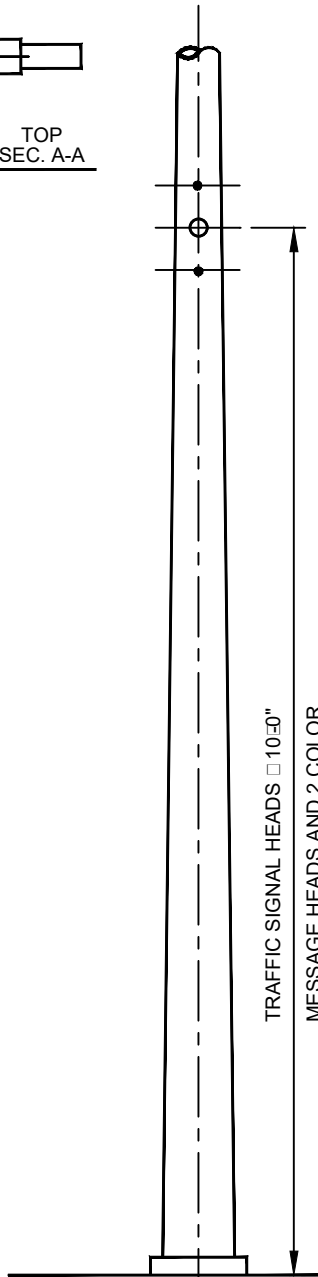
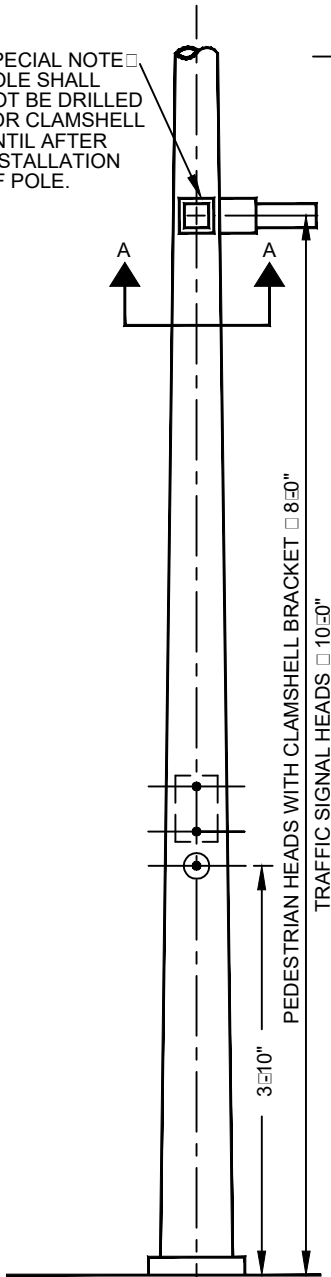
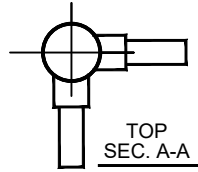
BRACKET RATING
 MAX. LUMINAIRE AREA $\square 2.7$ FT²
 MAX. LUMINAIRE WT. $\square 57$ LBS.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
RETROFIT STREETLIGHT MAST ARM						
DATE	DWG. NO.	822				

SPECIFICATION REFERENCE	

NO SCALE

SPECIAL NOTE
POLE SHALL NOT BE DRILLED FOR CLAMSHELL UNTIL AFTER INSTALLATION OF POLE.



NOTES
PUSH BUTTON DRILLING DETAIL

SIDE BRACKET DRILLING DETAIL

POLE PLATE DRILLING DETAIL

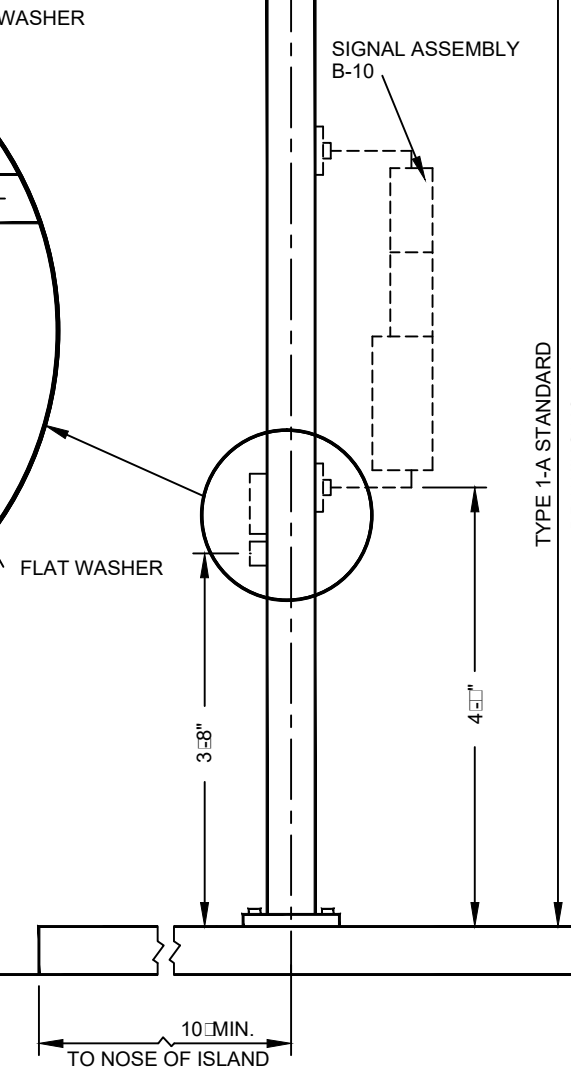
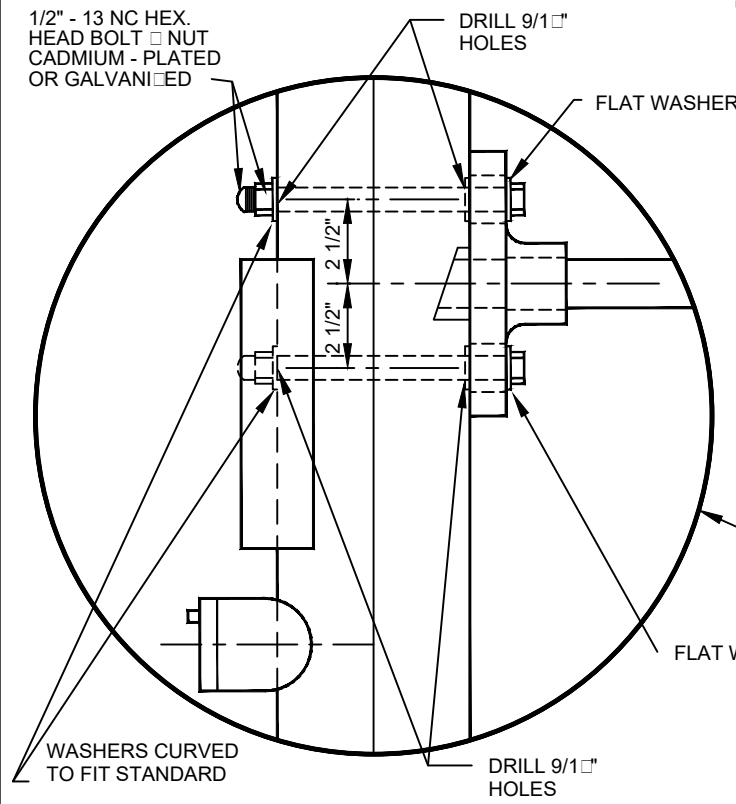
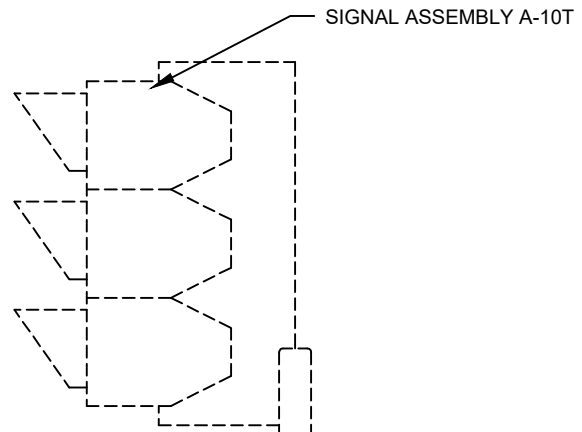
1. DRILLING OF POLE TO BE ORIENTED ACCORDING TO POLE LAYOUT, SPECIFICATIONS, AND AND ENGINEER.
2. DIMENSIONS ARE FROM CURB LEVEL.
3. DIMENSIONS ARE TO WIRE INLET HOLE ONLY. USE MANUFACTURER'S TEMPLATE TO LOCATE ALL OTHER HOLES.
4. ALL HOLES ARE TO CONFORM TO MANUFACTURER'S RECOMMENDATIONS.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
POLE DRILLING DETAILS	
DATE	DWG. NO. 823

Effective 10/08/2020 to 12/09/2020



TYPE 1-A STANDARD
DRAWING NO. 80

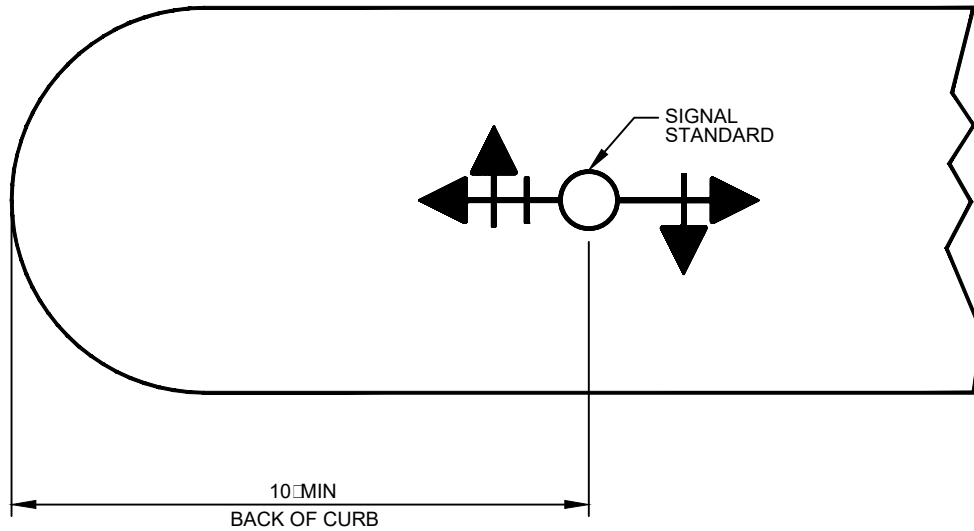
10 MIN.
TO NOSE OF ISLAND

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
ISLAND SIGNAL POLE DETAILS FOR 10 FT. POLE	
DATE	DWG. NO. 824

Effective 10/08/2020 to 12/09/2020



NOTE

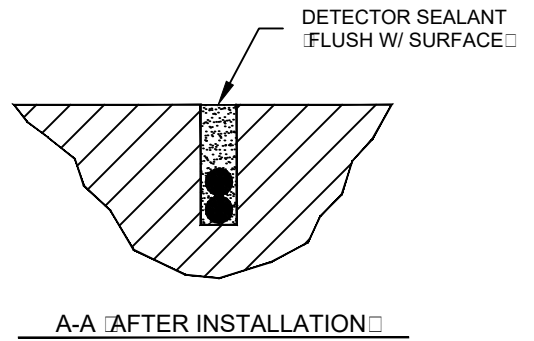
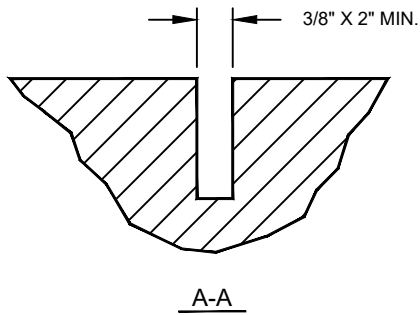
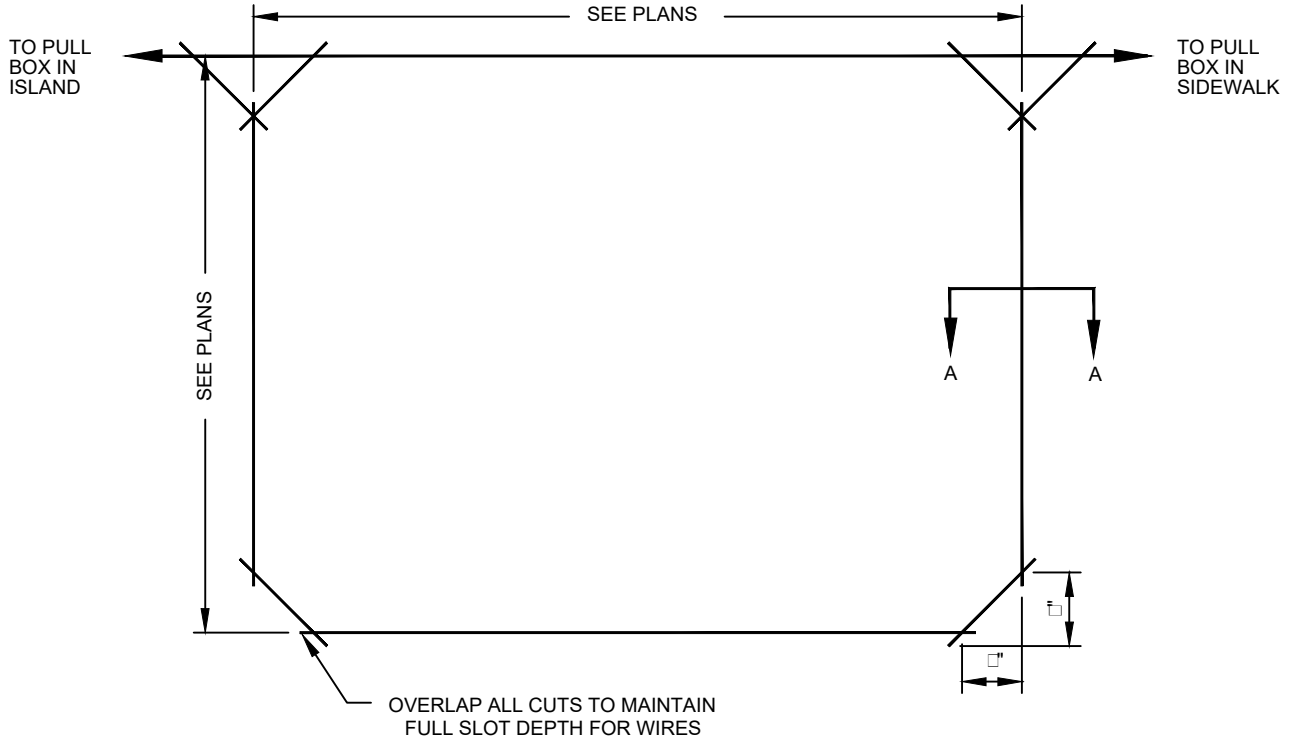
FOR POLE LOCATION ON RIGHT TURN ISLAND SEE DRAWING NO. 887.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		MEDIAN ISLAND SIGNAL LOCATION						
		DATE	DWG. NO.	825				

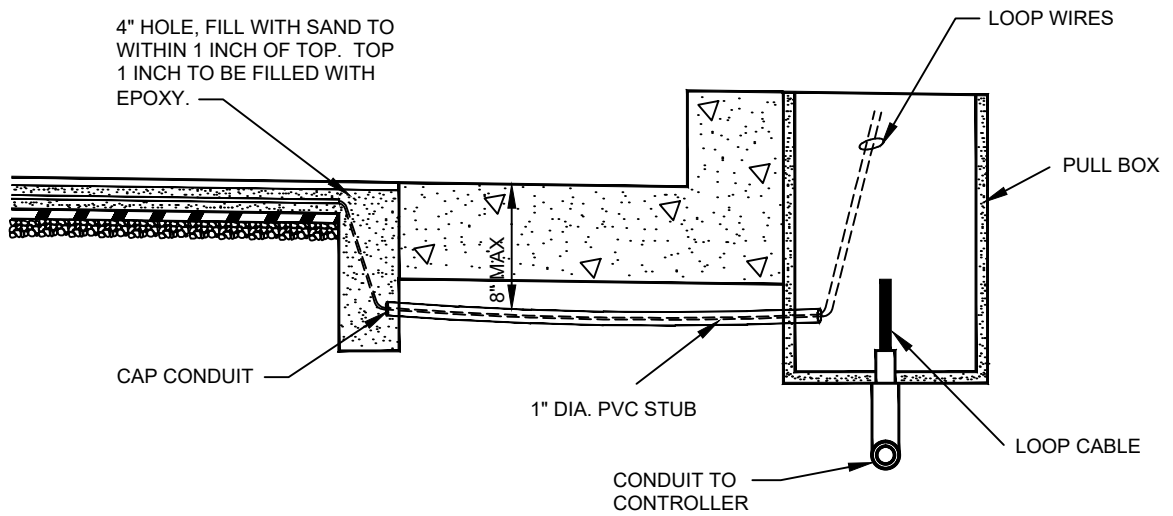


DIRECTION OF TRAVEL



Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SAWCUT DETAILS FOR INDUCTION LOOPS						
		DATE	DWG. NO. 82					



NOTE □

PATCH SLOT AND HOLE WITH EPOXY, REMOVE OVERFLOW BEFORE IT HARDENS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

B

C

H

L

M

N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

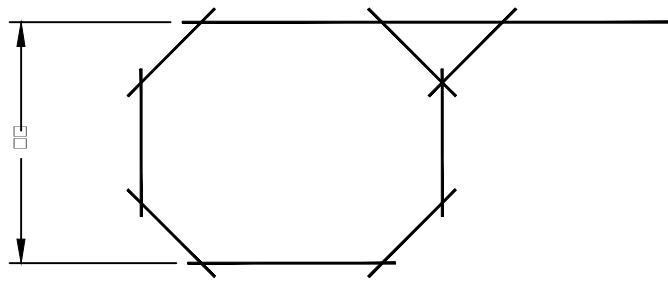
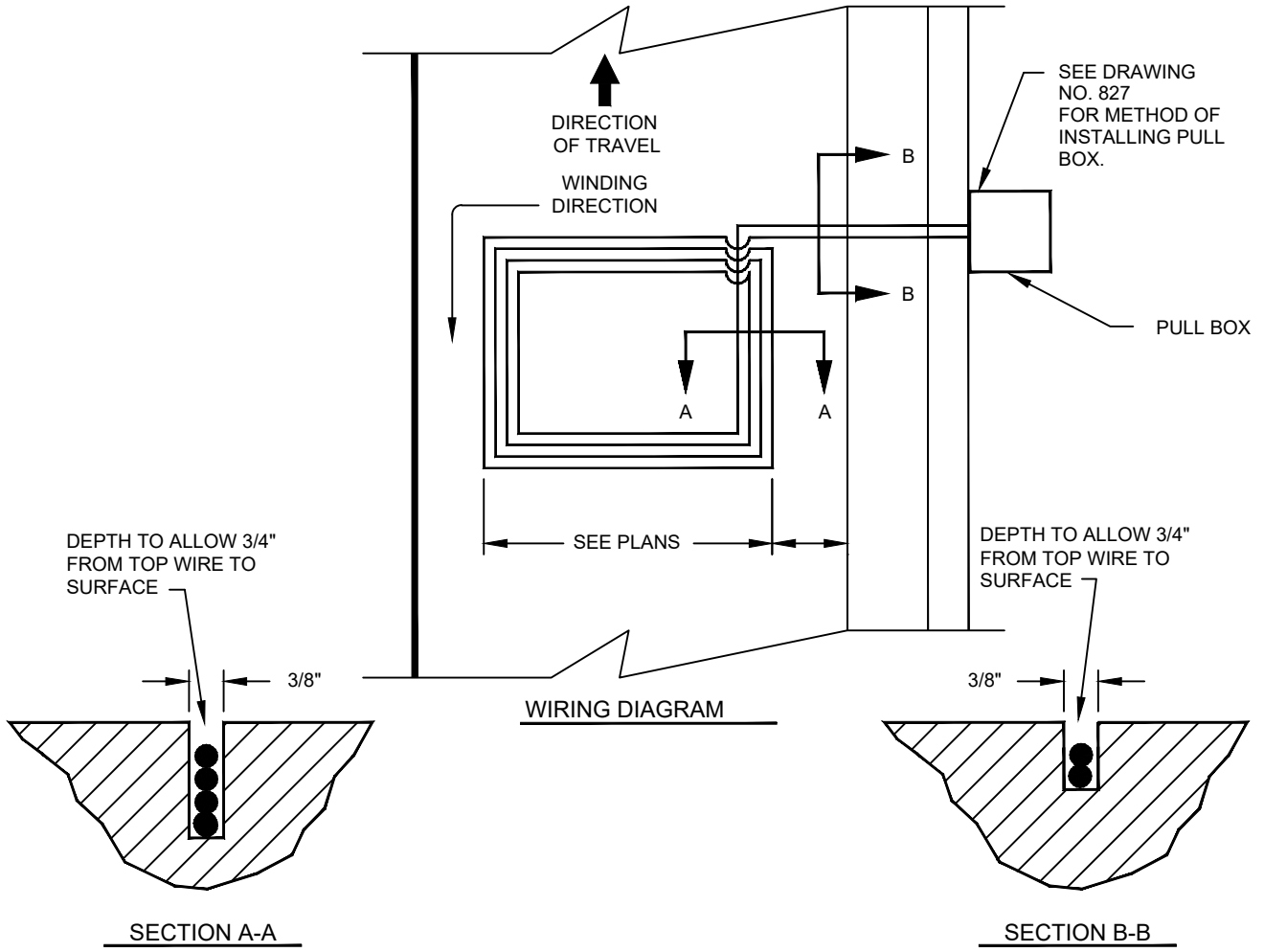
DETAILS AT PULL BOX
AND SAWCUTS

DATE

DWG. NO. 827

NOTE

1. 4 TURNS OF WIRE SHOWN. ALWAYS INSTALL 4 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON THE PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.



SAWCUT DIAGRAM

SEE DRAWING NO. 82 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ONE INDUCTION LOOP
FOR ONE TRAVEL LANE

DATE

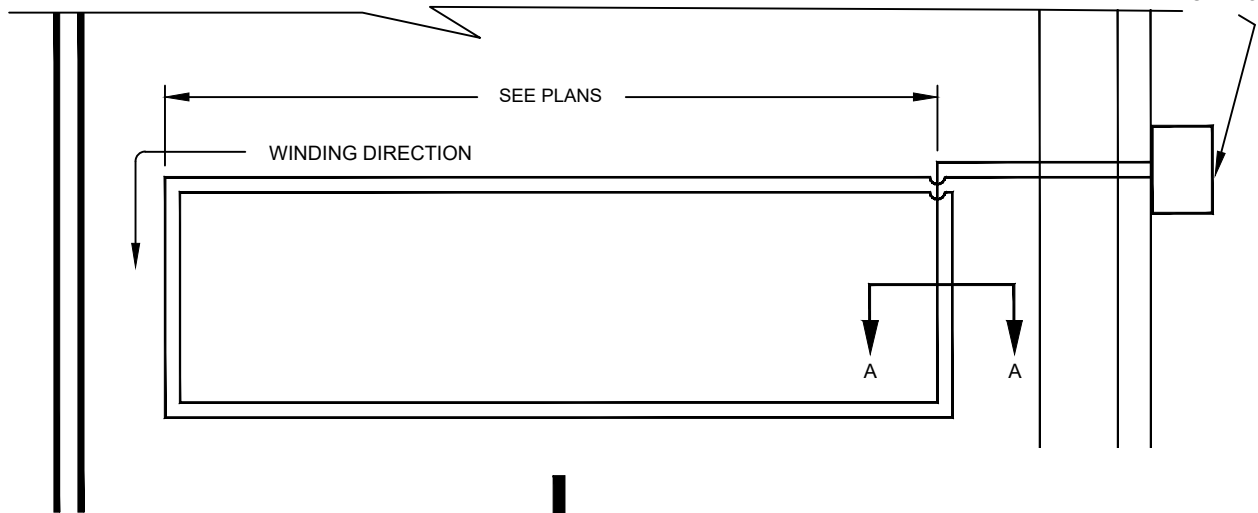
DWG. NO.

828

NOTE

2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

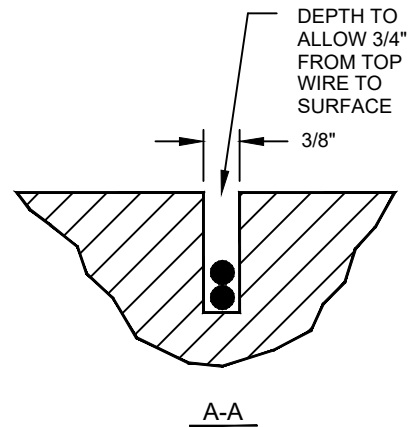
SEE DRAWING NO. 827 FOR METHOD OF INSTALLING PULL BOX



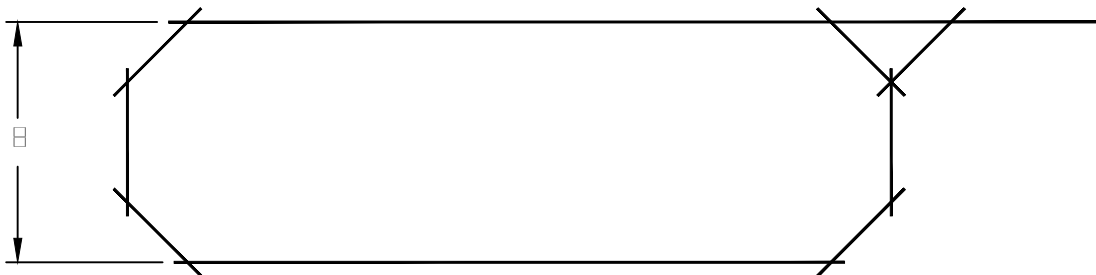
DIRECTION OF TRAVEL

DIRECTION OF TRAVEL

WIRING DIAGRAM



A-A



SAWCUT DIAGRAM

SEE DRAWING NO. 827 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED

B

C

H

L

M

N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ONE INDUCTION LOOP
FOR TWO TRAVEL LANES

DATE

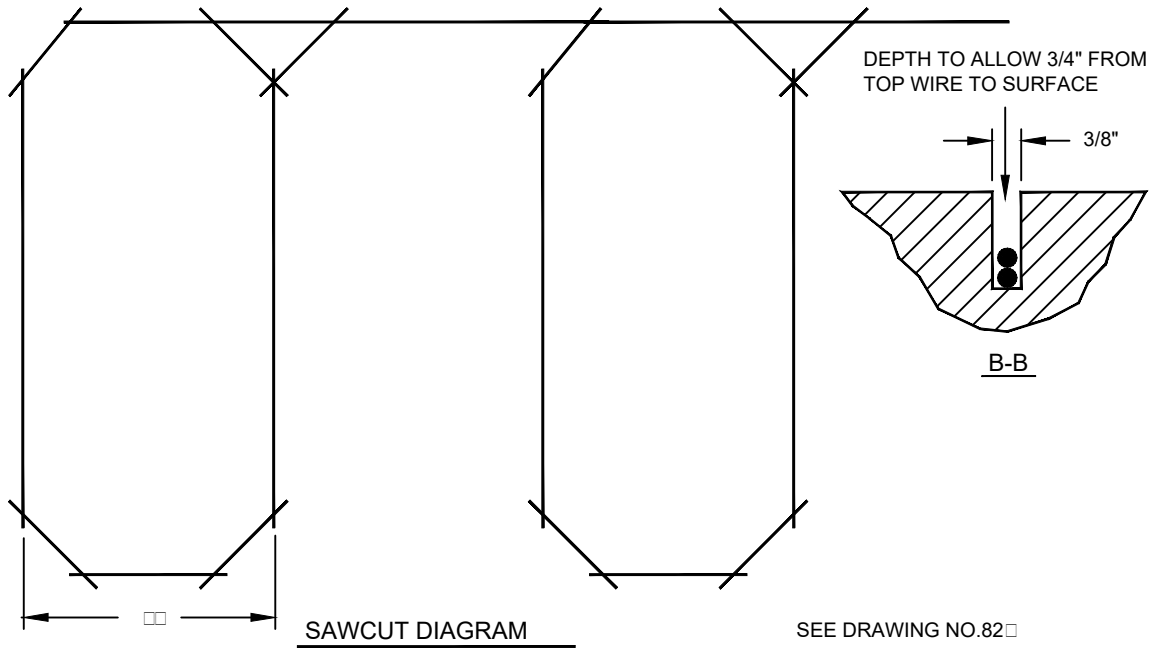
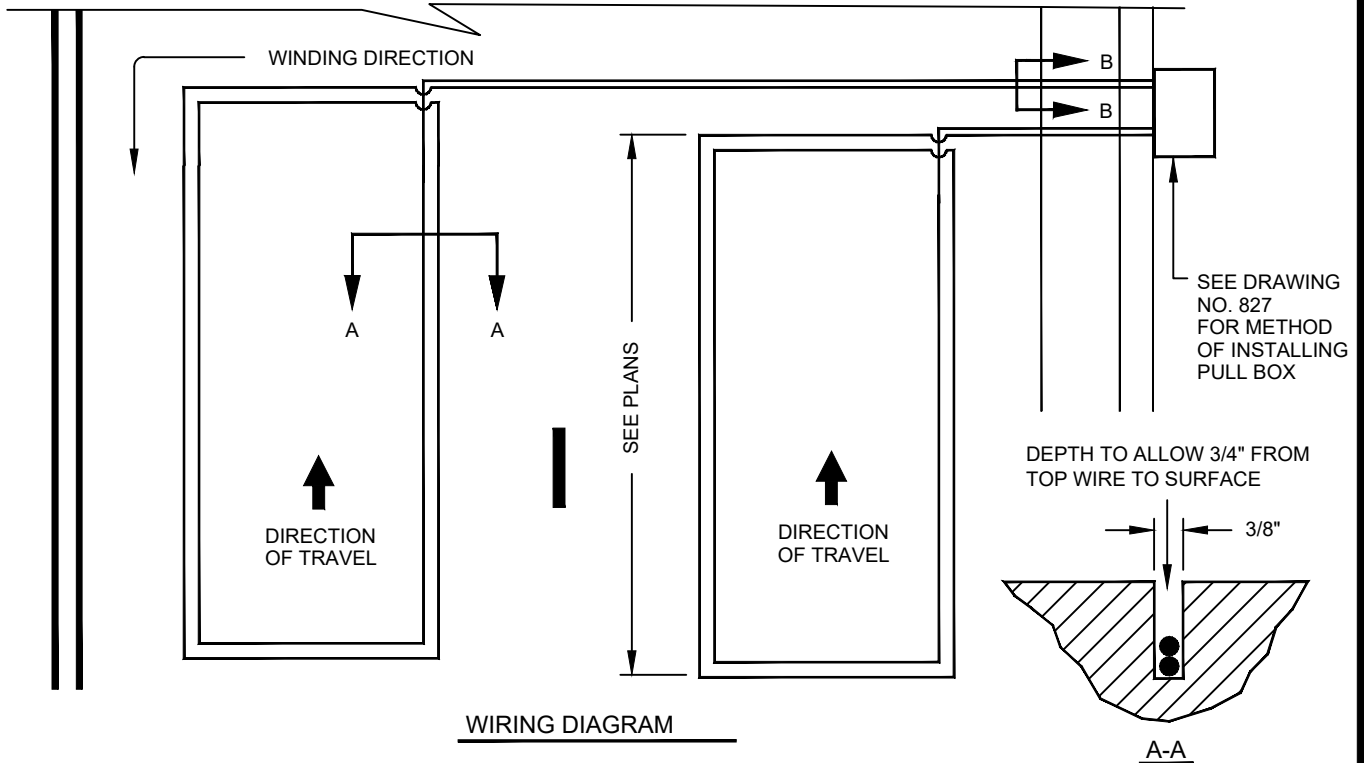
DWG. NO. 829

SHEET

1 OF 2

NOTE

2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.



SEE DRAWING NO. 82 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

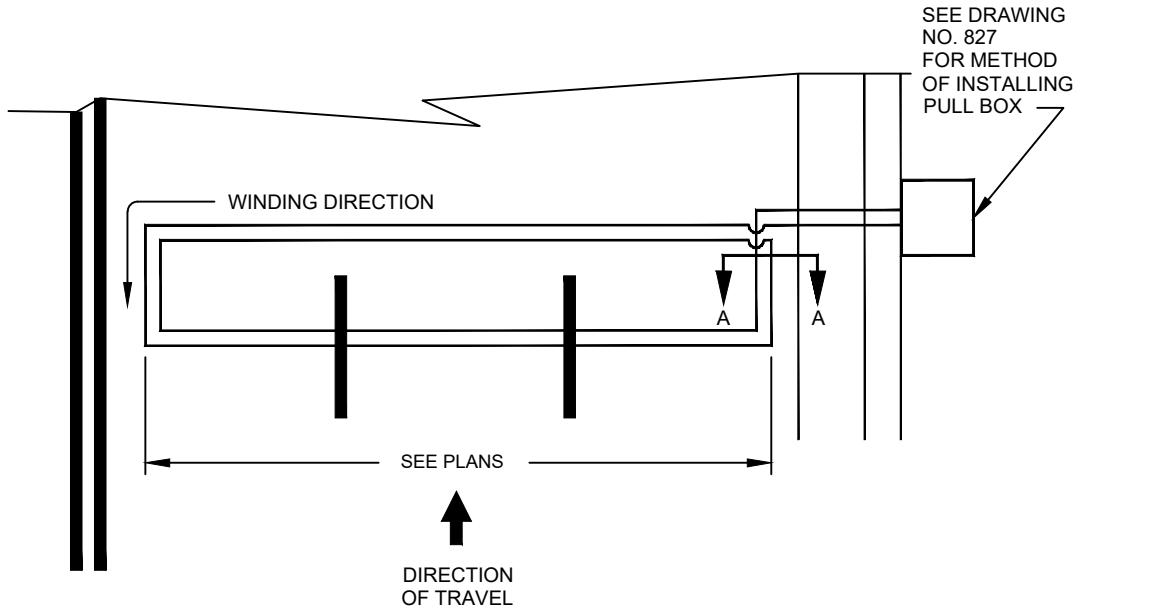
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

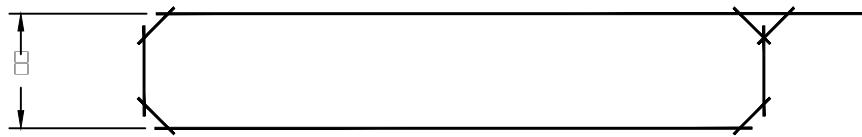
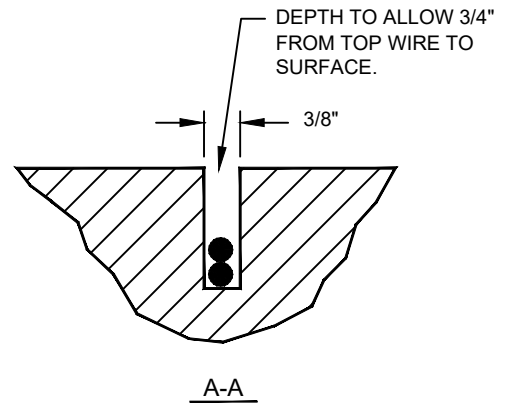
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TWO INDUCTION LOOPS FOR TWO TRAVEL LANES	
DATE	DWG. NO. 829 SHEET 2 OF 2

NOTE

2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.



WIRING DIAGRAM



SAWCUT DIAGRAM

SEE DRAWING NO. 827 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

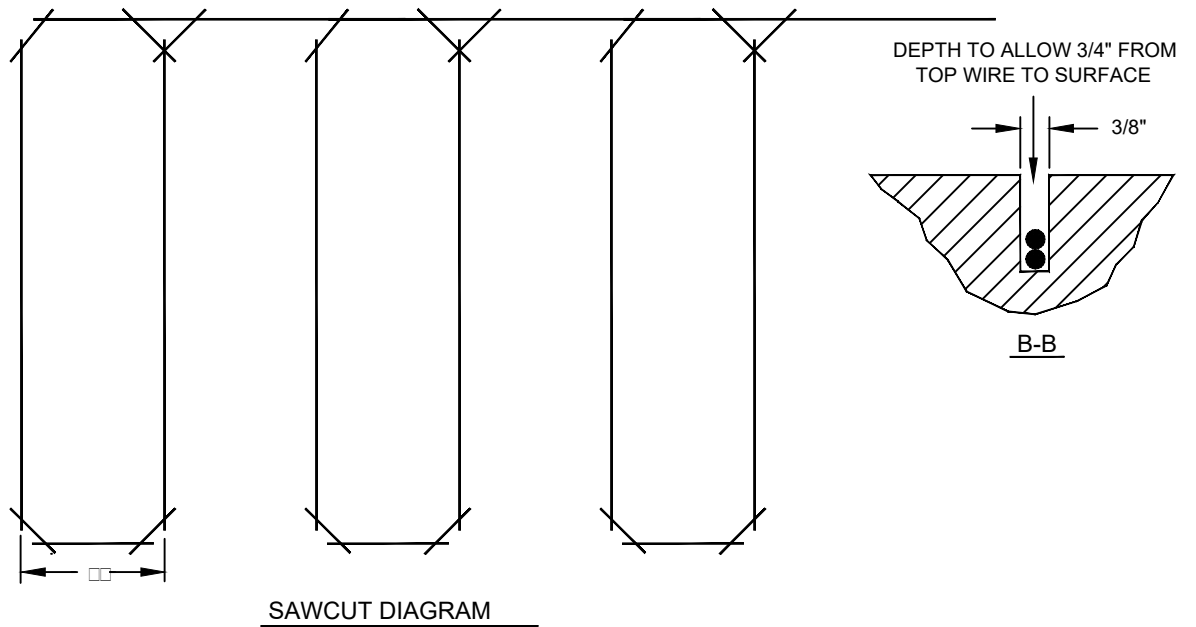
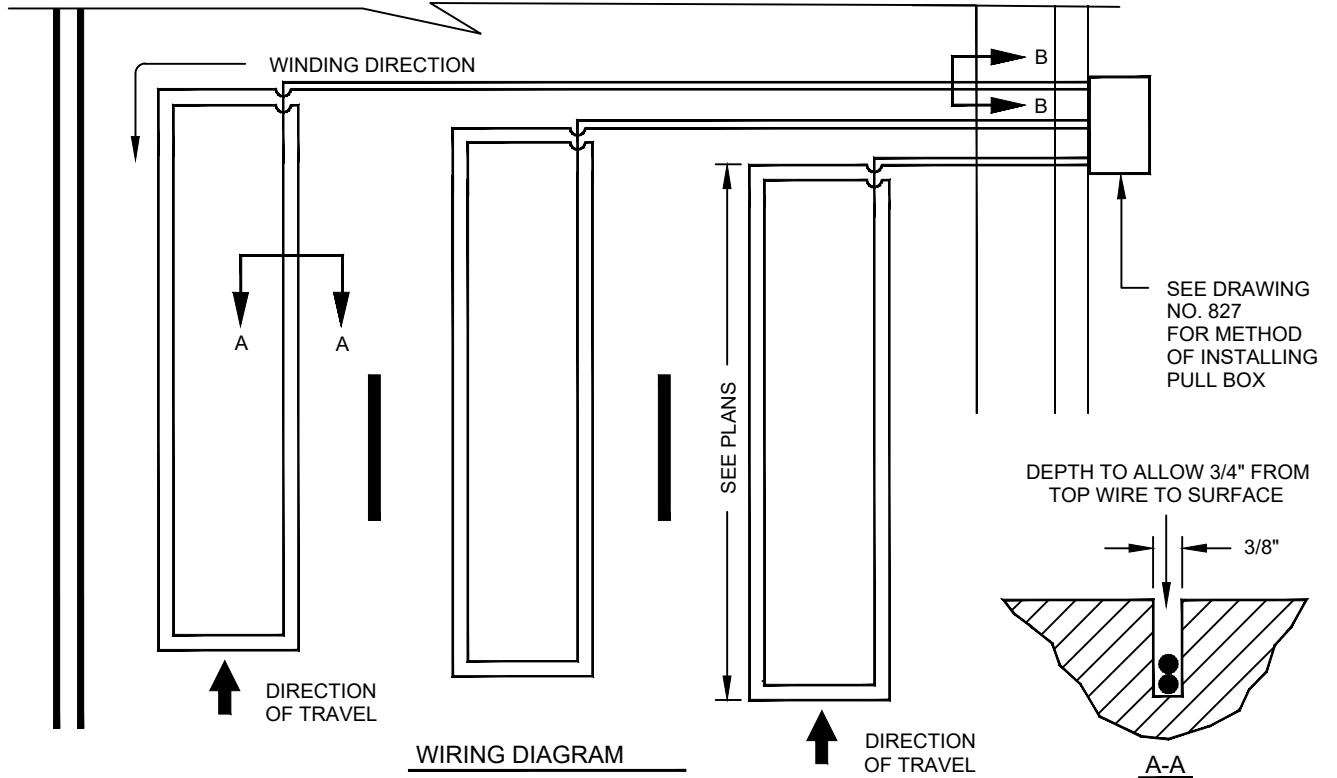
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ONE INDUCTION LOOP
FOR THREE TRAVEL LANES

DATE	DWG. NO. 830	SHEET 1 OF 2
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NOTE

2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.



SEE DRAWING NO. 82 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

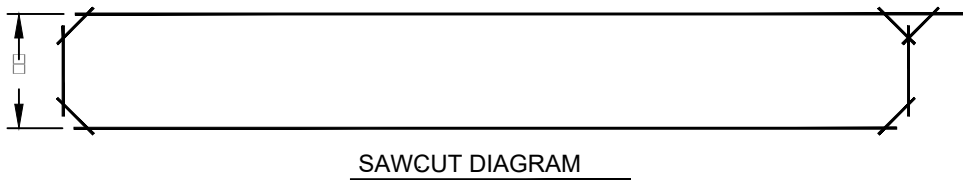
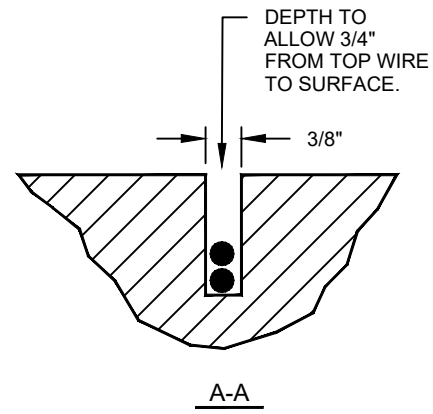
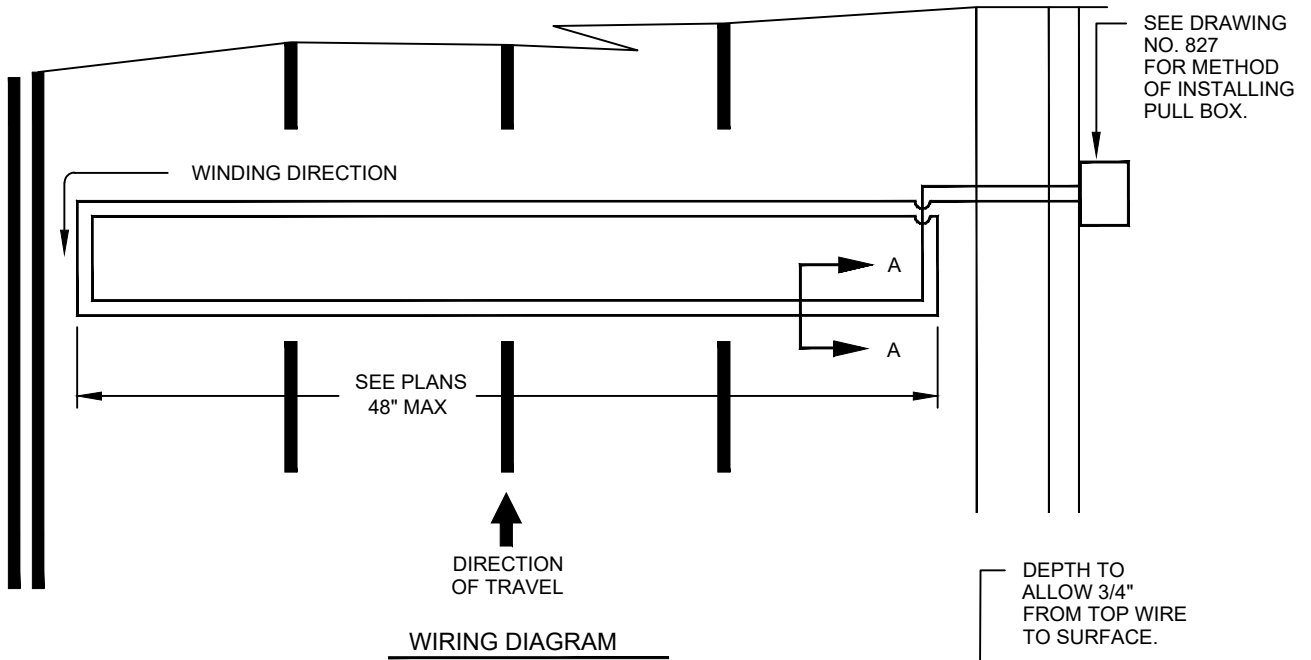
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
THREE INDUCTION LOOPS FOR THREE TRAVEL LANES	
DATE	DWG. NO. 830 SHEET 2 OF 2

NOTE

2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.



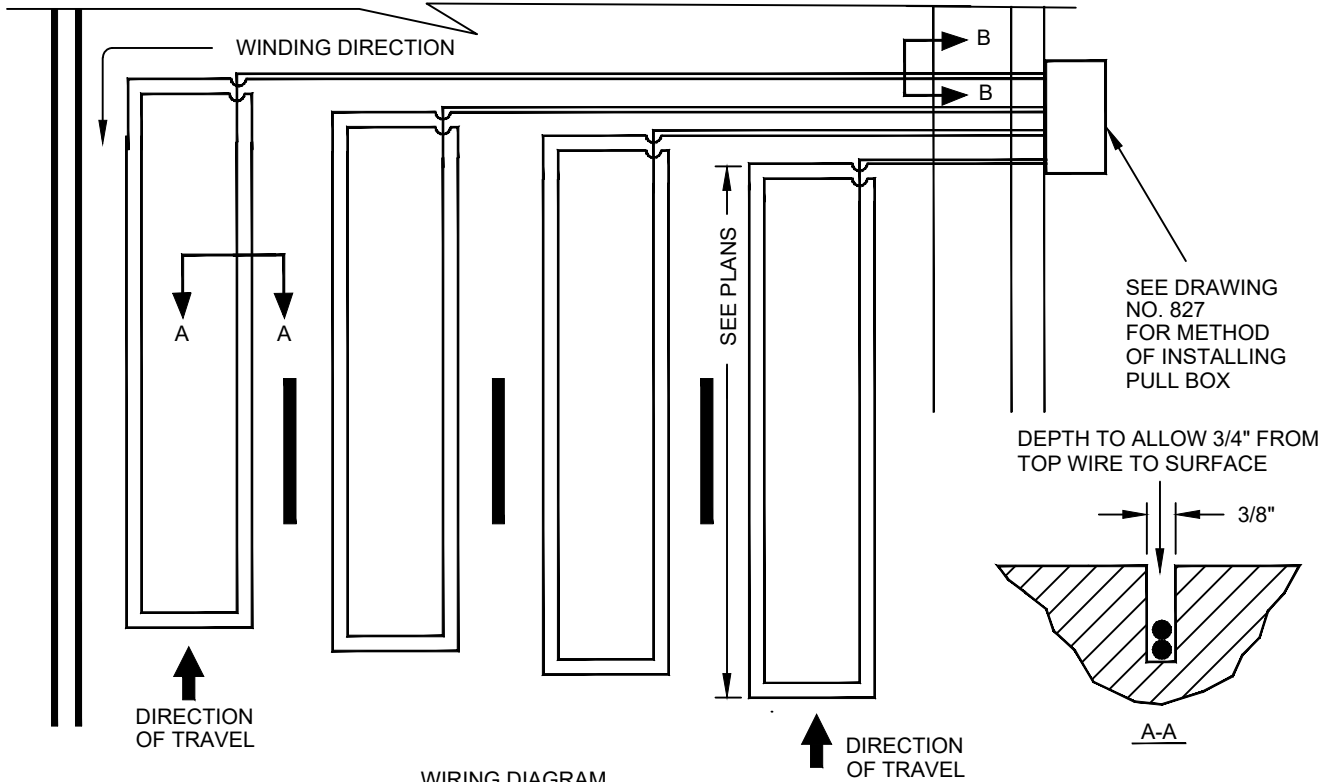
SEE DRAWING NO. 82 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE				AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE				UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
				ONE INDUCTION LOOP FOR FOUR TRAVEL LANES						
				DATE	DWG. NO. 831			SHEET 1 OF 2		

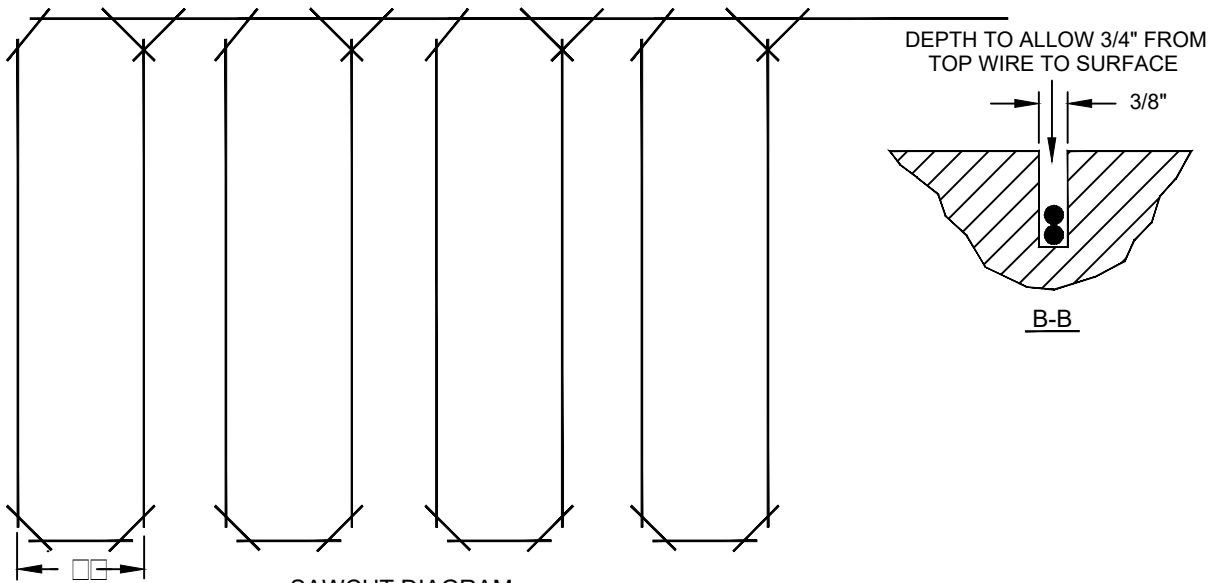
Effective 10/08/2020 to 12/09/2020

NOTE

2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.



WIRING DIAGRAM



SAWCUT DIAGRAM

SEE DRAWING NO. 82 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

FOUR INDUCTION LOOPS
FOR FOUR TRAVEL LANES

DATE

DWG. NO. 831

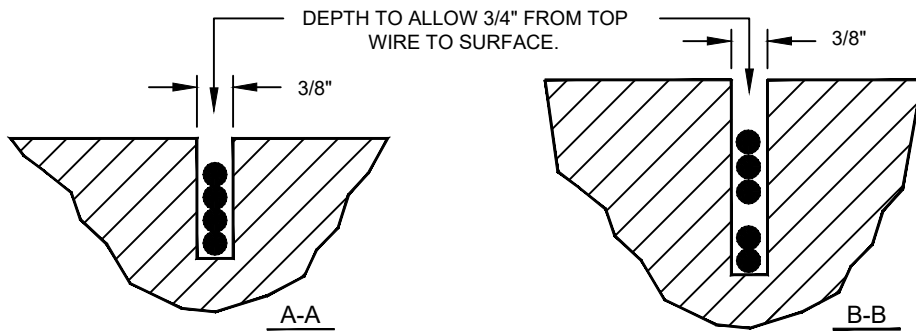
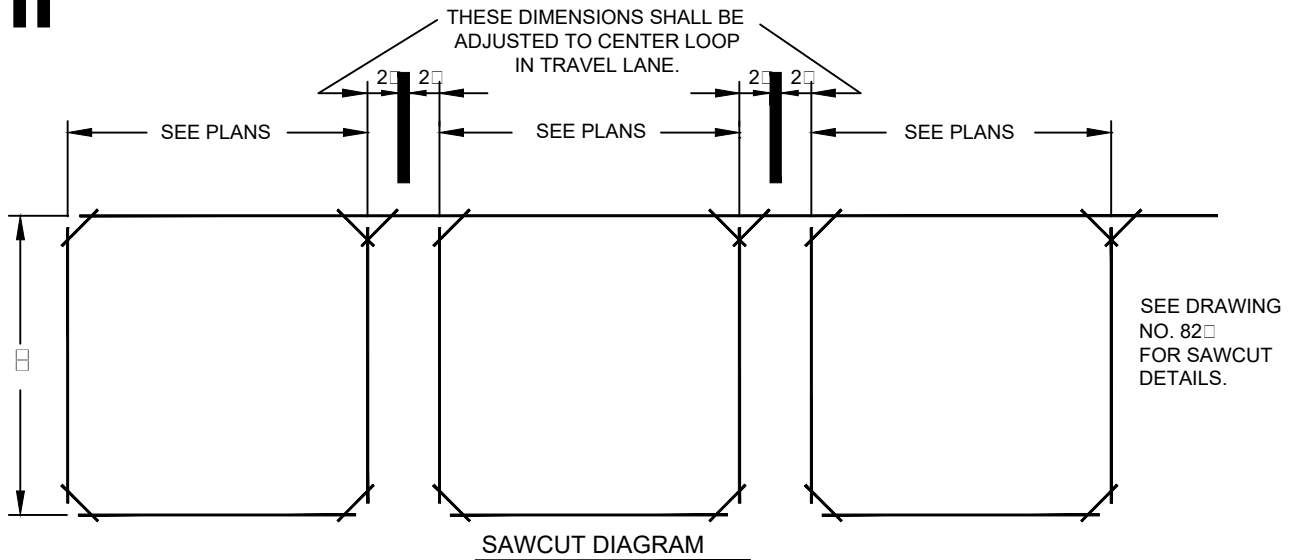
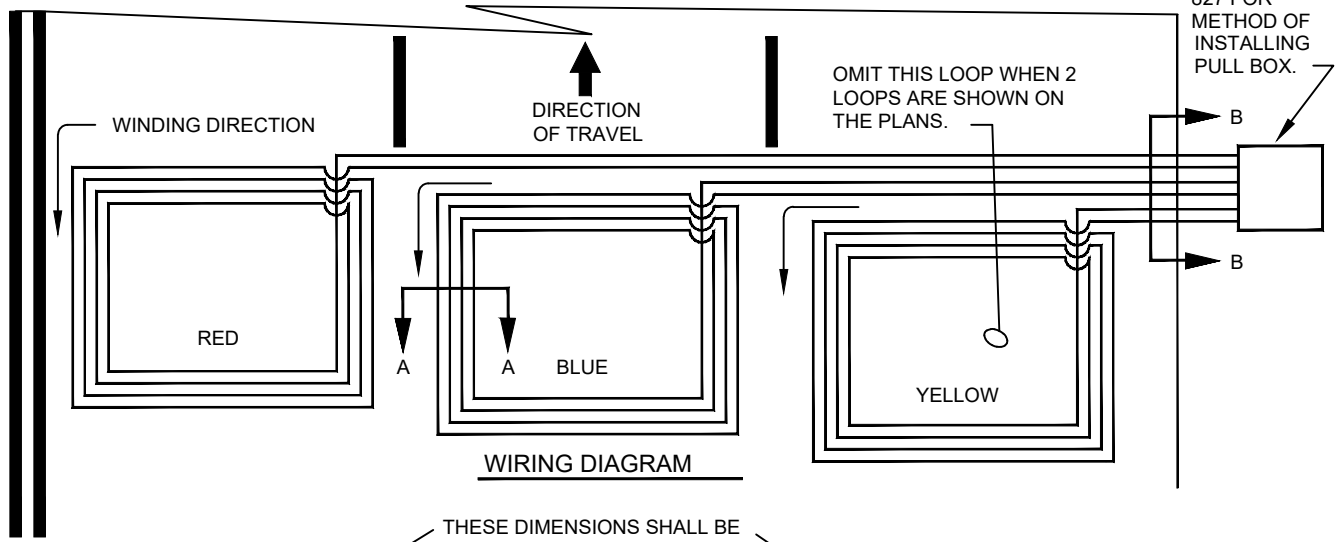
SHEET

2 OF 2

NOTES

1. 4 TURNS OF WIRE SHOWN. ALWAYS INSTALL 4 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON THE PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.
2. TRAFFIC ENGINEER SHALL ESTABLISH LATERAL LOCATIONS ON ROADS WITHOUT MARKED LANES.

SEE DRAWING NO. 827 FOR METHOD OF INSTALLING PULL BOX.



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

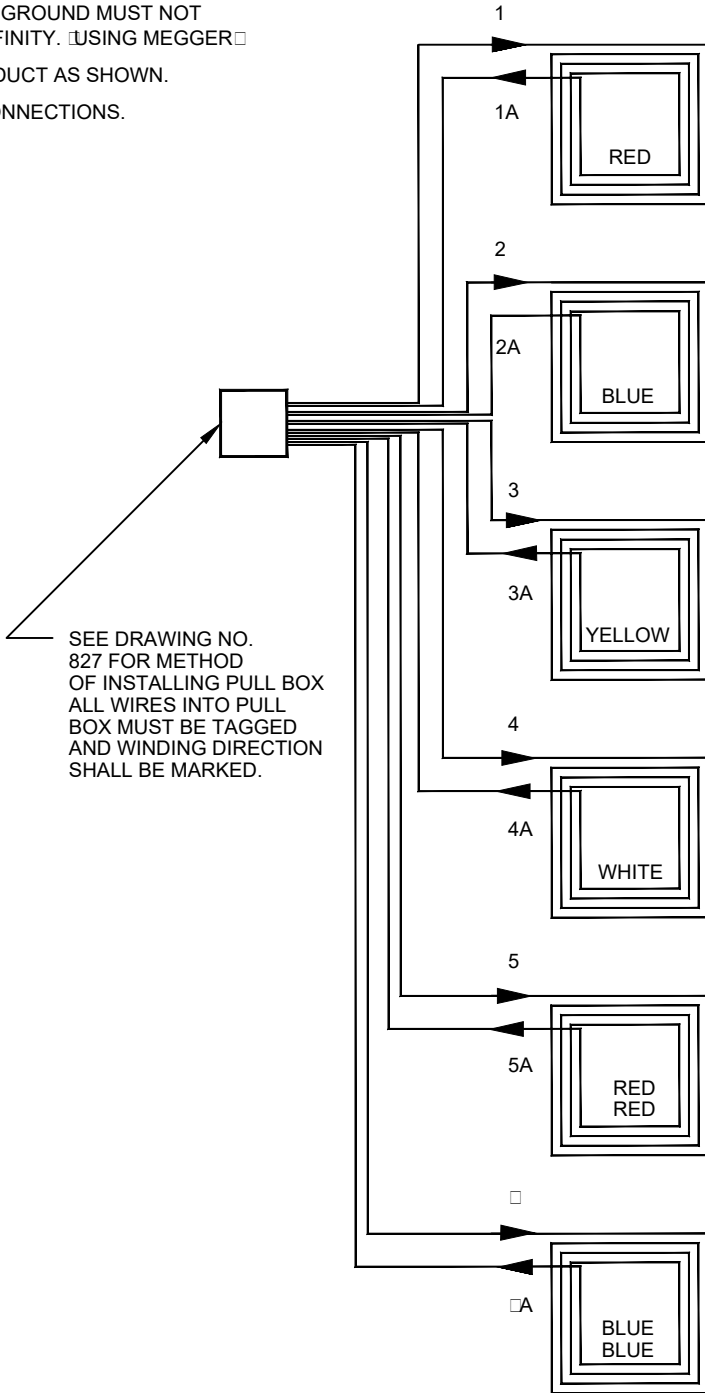
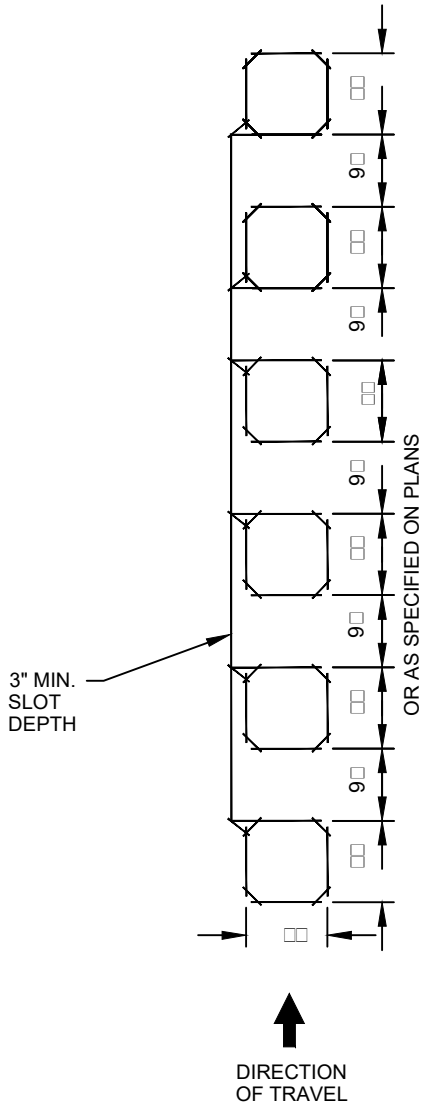
THREE INDUCTION LOOPS
FOR THREE TRAVEL LANES

DATE

DWG. NO. 832

NOTES

1. FRONT OF THE LOOP MUST EXTEND INTO THE CROSSWALK 2 TO 4
2. INSULATION TEST FOR EACH LOOP TO GROUND MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. USING MEGGER
3. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.
4. SEE DRAWING NO. 83 FOR WIRING CONNECTIONS.



SEE DRAWING NO. 827 FOR METHOD OF INSTALLING PULL BOX ALL WIRES INTO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

WIRING DIAGRAM

SEE DRAWING NO. 83 FOR WIRE CONNECTIONS.
SEE DRAWING NO. 82 FOR SAWCUT DETAILS.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

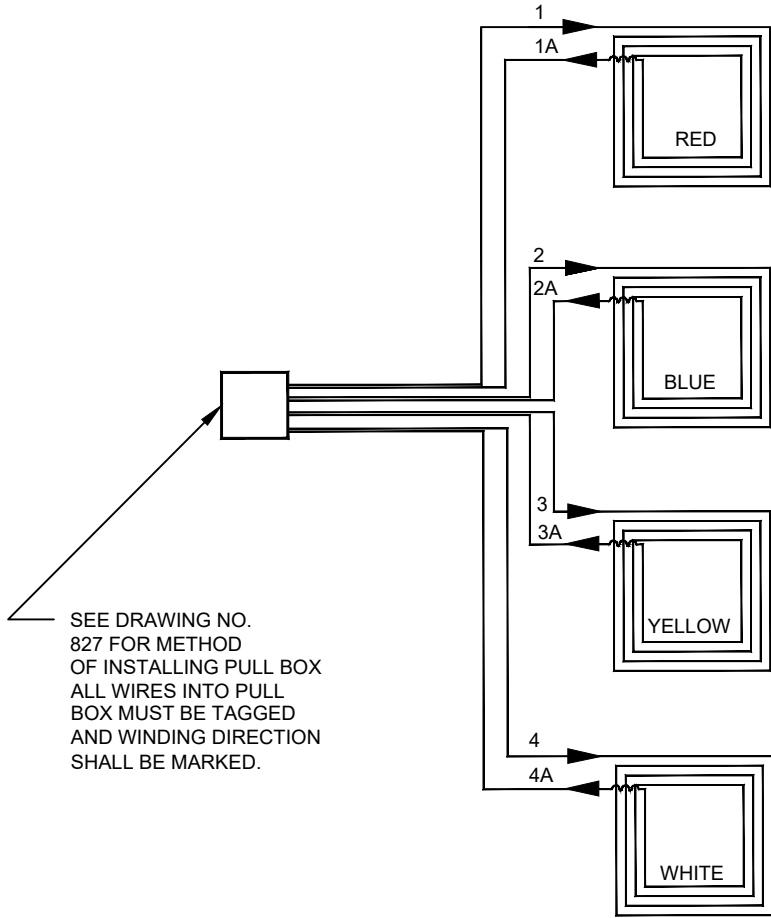
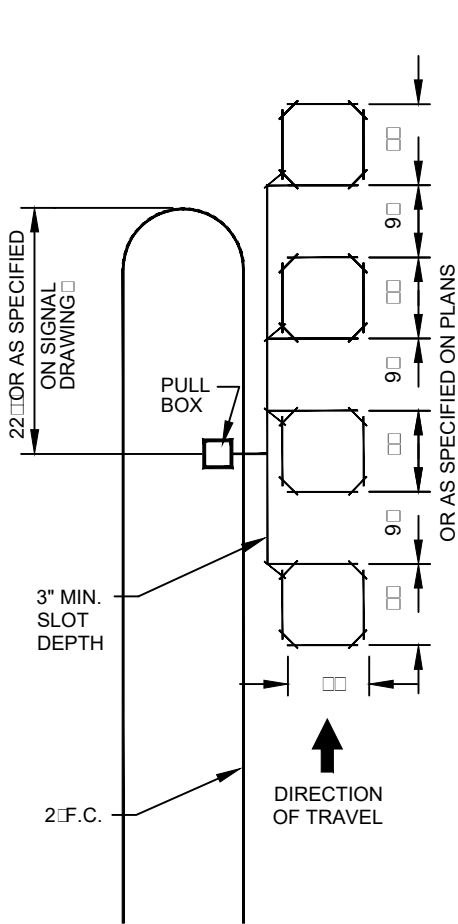
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

MULTIPLE LOOP SYSTEM FOR
THRU LANE

DATE 12-12-9 DWG. NO. 833

NOTES

1. FRONT OF THE LOOP MUST EXTEND IN THE CROSSWALK 2 TO 4
2. INSULATION TEST FOR EACH LOOP TO GROUND MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. USING MEGGER
3. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.



SEE DRAWING NO. 827 FOR METHOD OF INSTALLING PULL BOX ALL WIRES INTO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

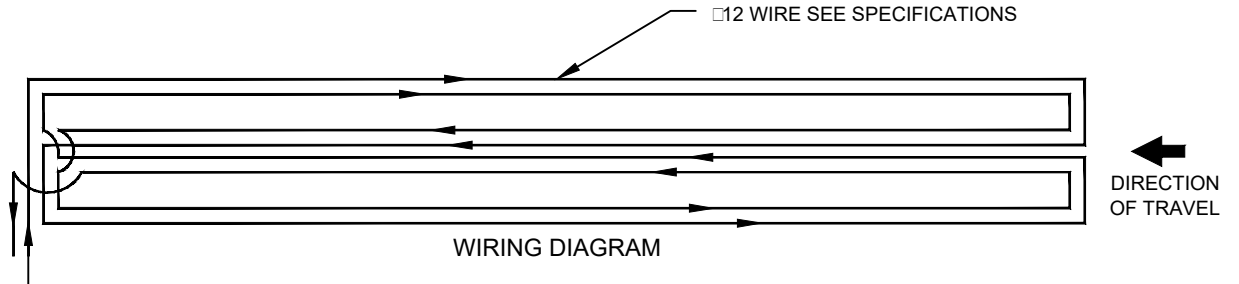
WIRING DIAGRAM

SEE DRAWING NO. 83 FOR WIRE CONNECTIONS.
SEE DRAWING NO. 82 FOR SAWCUT DETAILS.

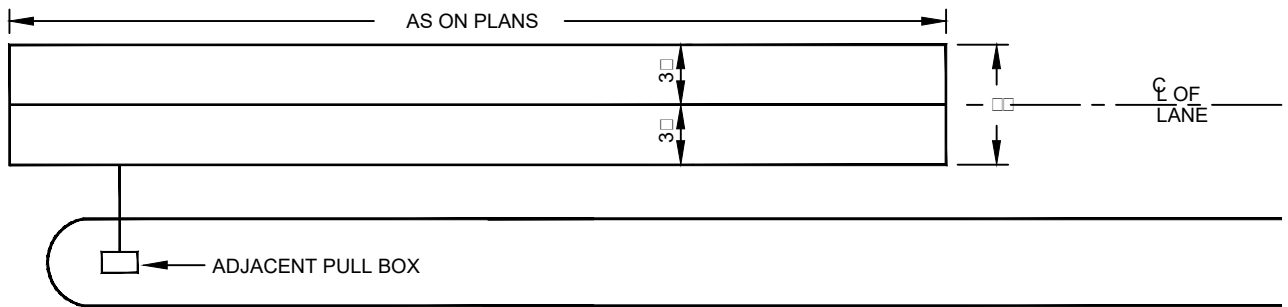
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		MUTIPLE LOOP SYSTEM FOR LEFT TURN POCKET						
		DATE	DWG. NO. 834					

TYPE "□UADRUPOLE" LOOP INSTALLATION



WHENEVER MORE THAN ONE LOOP TERMINATES IN A PULL BOX,
ALL LEADS MUST BE TAGGED AND IDENTIFIED.



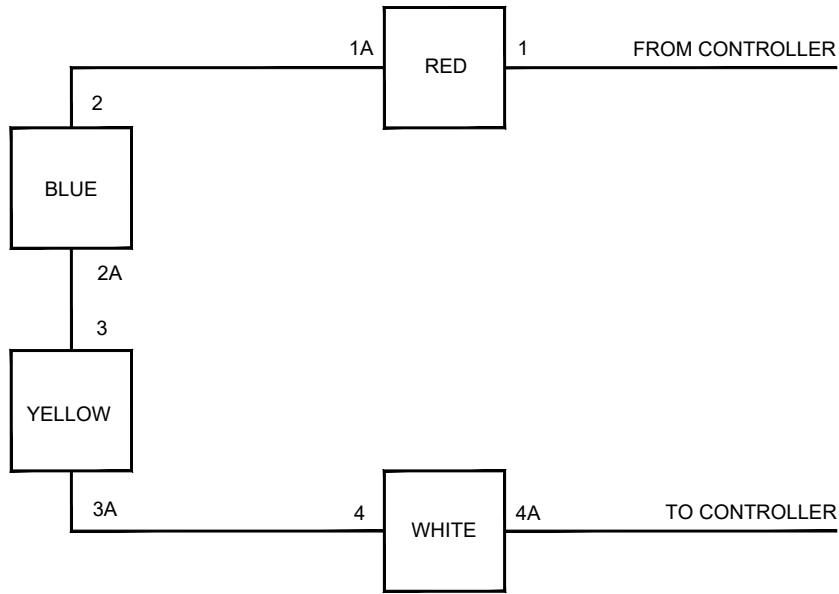
NOTES

1. FOR ALL LOOPS, TWO TURNS ARE REQUIRED.
2. FRONT OF LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'

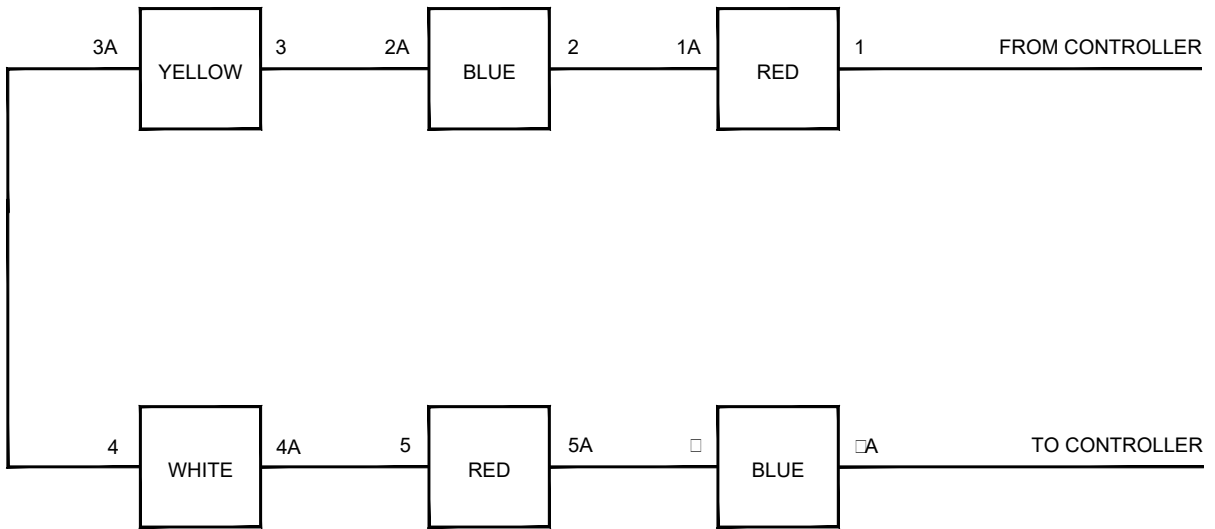
Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	TYPE "□UADRUPOLE" LOOP INSTALLATION						
	DATE	DWG. NO.	835				

SEE DRAWING NO. 834 FOR LOOP LAYOUT



SEE DRAWING NO. 833 FOR LOOP LAYOUT



PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

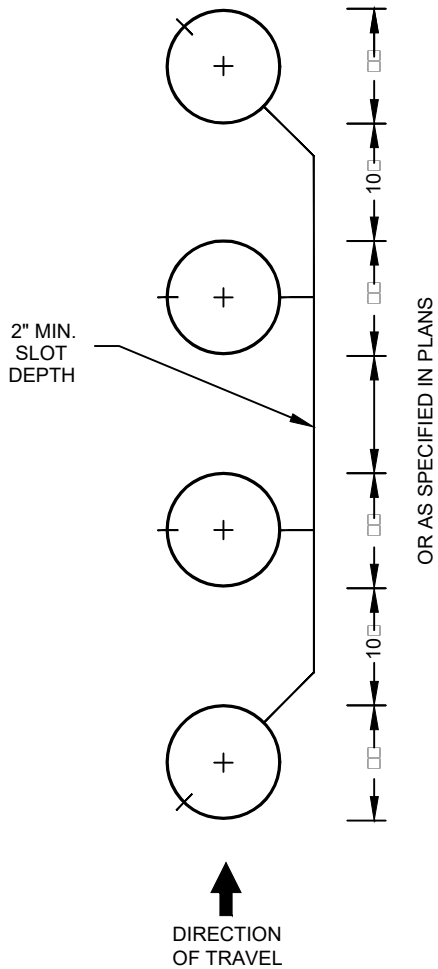
WIRE DIAGRAMS FOR MULTIPLE
LOOP SYSTEMS FOR LEFT TURN
POCKET AND THRU LANE

DATE 12-12-9 DWG. NO. 83

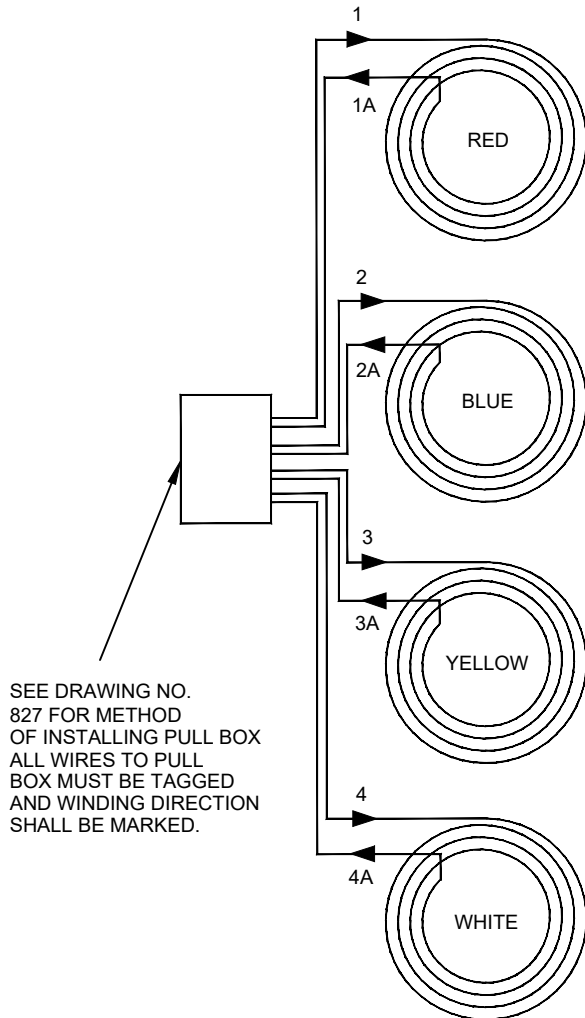
Effective 10/08/2020 to 12/09/2020

NOTES

1. INSULATION FOR EACH LOOP MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. □ USING MEGGER □
2. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.
3. FRONT OF LOOP MUST EXTEND IN THE CROSSWALK 2 TO 4 □



SAWCUT DIAGRAM



SEE DRAWING NO. 827 FOR METHOD OF INSTALLING PULL BOX ALL WIRES TO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

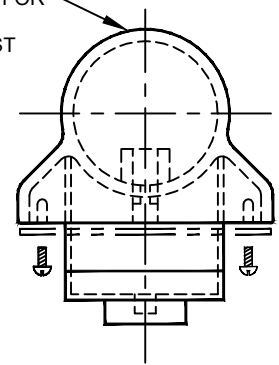
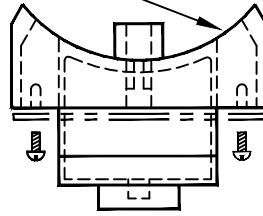
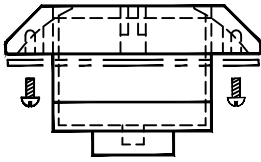
WIRING DIAGRAM

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		CIRCULAR INDUCTION LOOPS FOR TRAVEL LANES						
		DATE	DWG. NO. 837					

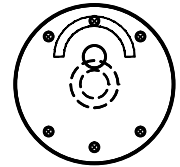
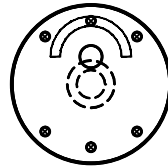
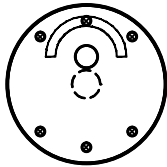
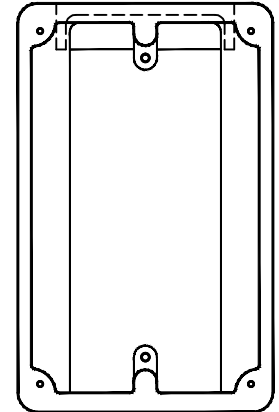
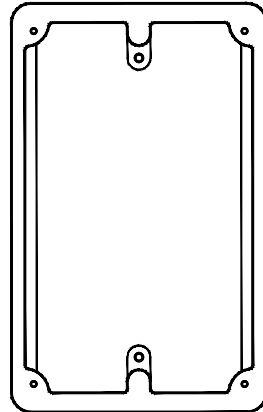
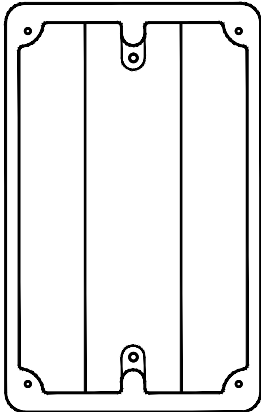
DIA. TO FIT STANDARD

MACHINE OFF CAP FOR 8" PEDESTRIAN PUSH BUTTON POST



NOTES

1. CAST ALUMINUM HOUSING.
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.



FOR FLAT SURFACE MOUNTING

FOR SIGNAL STANDARD MOUNTING

FOR 2-1/2" IPS MOUNTING

NOTES

1. AT LOCATIONS WHERE "WALK" "DON'T WALK" SIGNALS ARE PROVIDED, PROVIDE BLACK LETTERING ON A WHITE BACKGROUND ON PORCELAIN SIGNS.
2. AT LOCATIONS WHERE "SYMBOLIC" SIGNALS ARE PROVIDED, PROVIDE WHITE FIGURES ON A BLACK BACKGROUND.
3. MOUNTING SURFACE FOR THE SIGNS SHALL BE 9" X 12".



AGENCY APPROVED	B	C	H	M	N
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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

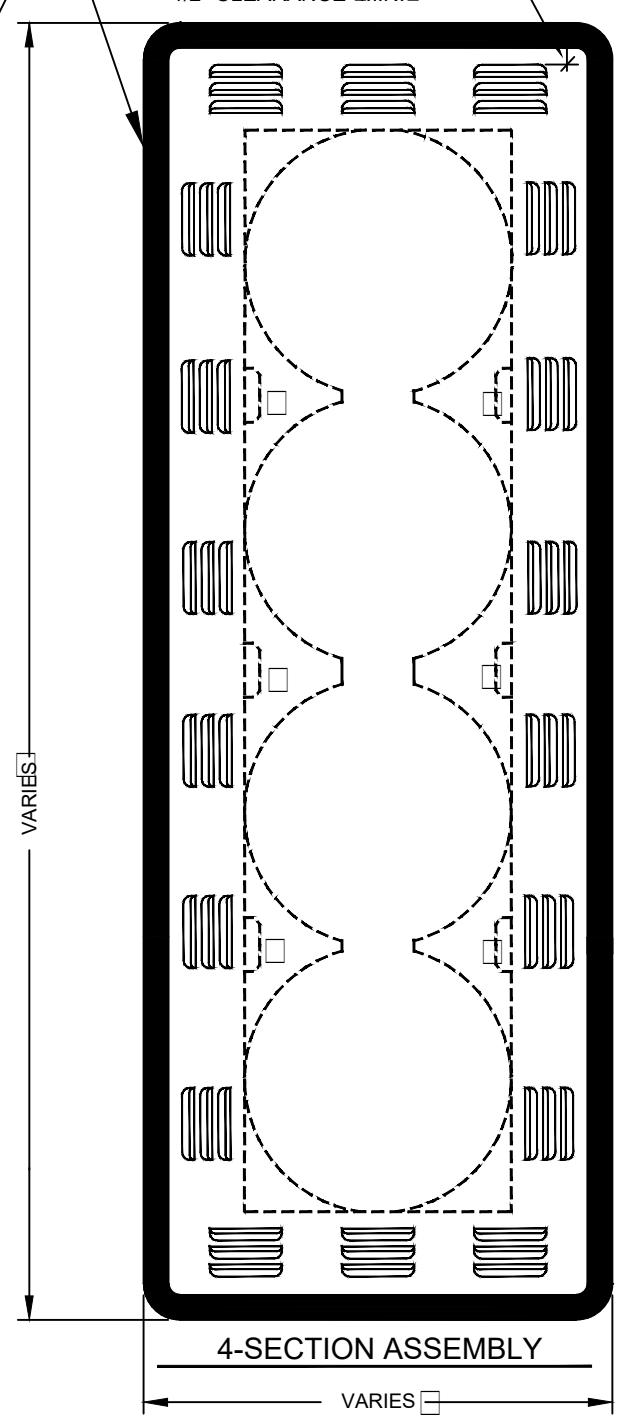
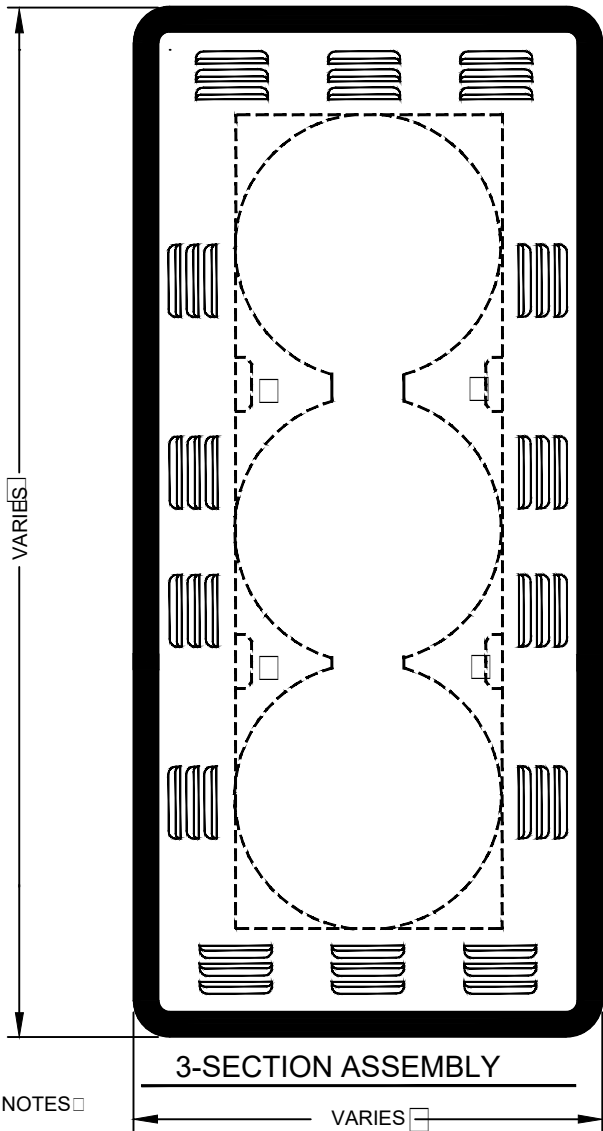
PEDESTRIAN PUSH BUTTON
DETECTORS

DATE 08-09-18 DWG. NO. 838

PAINT FLAT BLACK DIMENSIONS AND ATTACHMENT METHODS VARY PER MANUFACTURE. BORDER WIDTH 5-INCH TYP.

2" YELLOW RETROREFLECTIVE BORDER LINE ADHESIVE SHEETING

1/2" CLEARANCE MIN.



NOTES

1. ALL TRAFFIC SIGNAL BACKPLATES SHALL HAVE A 2-INCH RETROREFLECTIVE ADHESIVE SHEETING BORDER ON THE ENTIRE OUTER PERIMETER OF THE FRONT SIDE OF THE BACKPLATE.
 2. RETROREFLECTIVE SHEETING SHALL BE FLUORESCENT YELLOW, ASTM D495-13 TYPE XI OR BETTER.
 3. THE RETROREFLECTIVE SHEETING BORDER SHALL HAVE A MINIMUM OF 0.5"
 4. CLEARANCE FROM ALL LOUVERS. NO RETROREFLECTIVE SHEETING SHALL BE PLACED OVER ANY LOUVERED AREA.
 5. RETROREFLECTIVE SHEETING BORDER SHALL BE INSTALLED BY THE MANUFACTURER, AND MODIFICATIONS SHALL NOT BE MADE BY THE CONTRACTOR.
- THE BACK PLATE WITH RETROREFLECTIVE SHEETING BORDER SHALL BE FROM THE SAME MANUFACTURER AS THE SIGNAL HEAD ASSEMBLY. THE COMPLETE HEAD ASSEMBLY, INCLUDING THE BACKPLATE, SHALL BE CAPABLE OF WITHSTANDING WINDS OF 90 MPH WITHOUT DAMAGE OR SEPARATION OF ANY PARTS FROM THE SIGNAL HEAD ASSEMBLY.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
LOUVERED BACKPLATE FOR MAST ARM MOUNTED SIGNAL	
DATE 07-01-17	DWG. NO. 840

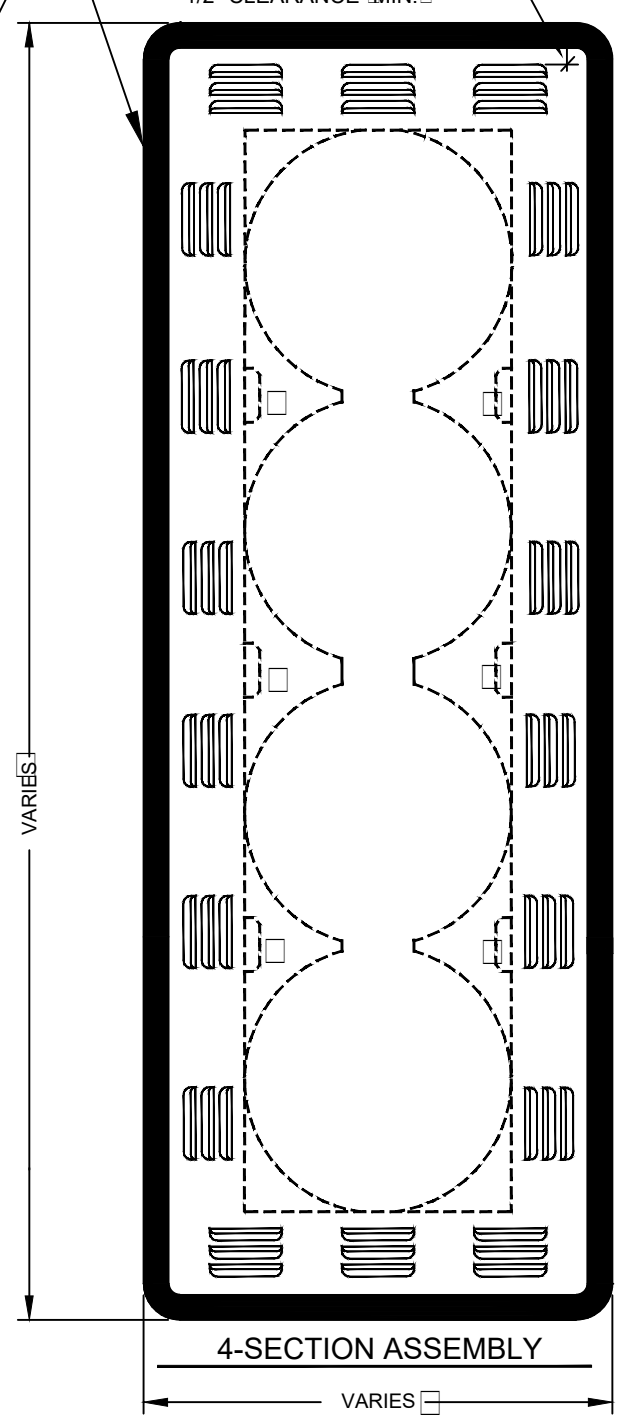
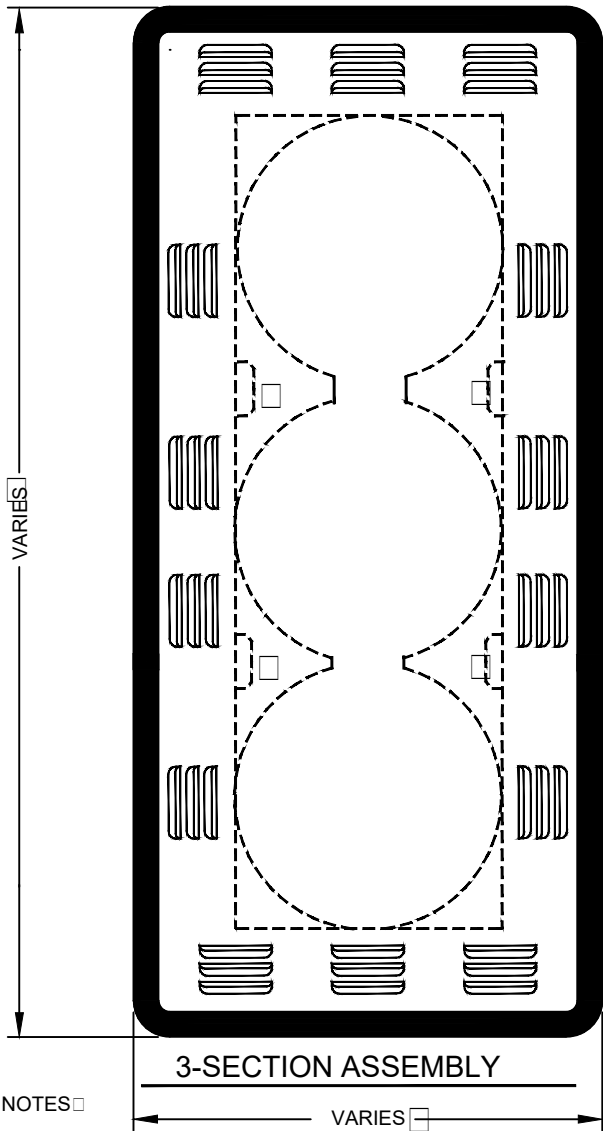
Effective 10/08/2020 to 12/09/2020

PAINT □ FLAT BLACK

DIMENSIONS AND ATTACHMENT METHODS VARY PER MANUFACTURE. BORDER WIDTH □ 5-INCH □ TYP. □

2" YELLOW RETROREFLECTIVE BORDER LINE ADHESIVE SHEETING

1/2" CLEARANCE □ MIN. □



NOTES □

1. ALL TRAFFIC SIGNAL BACKPLATES SHALL HAVE A 2-INCH RETROREFLECTIVE ADHESIVE SHEETING BORDER ON THE ENTIRE OUTER PERIMETER OF THE FRONT SIDE OF THE BACKPLATE.
2. RETROREFLECTIVE SHEETING SHALL BE FLUORESCENT YELLOW, ASTM D495 □ 13 TYPE XI OR BETTER.
3. THE RETROREFLECTIVE SHEETING BORDER SHALL HAVE A MINIMUM OF 0.5" CLEARANCE FROM ALL LOUVERS. NO RETROREFLECTIVE SHEETING SHALL BE PLACED OVER ANY LOUVERED AREA.
4. RETROREFLECTIVE SHEETING BORDER SHALL BE INSTALLED BY THE MANUFACTURER, AND MODIFICATIONS SHALL NOT BE MADE BY THE CONTRACTOR.
5. THE BACK PLATE WITH RETROREFLECTIVE SHEETING BORDER SHALL BE FROM THE SAME MANUFACTURER AS THE SIGNAL HEAD ASSEMBLY. THE COMPLETE HEAD ASSEMBLY, INCLUDING THE BACKPLATE, SHALL BE CAPABLE OF WITHSTANDING WINDS OF 90 MPH WITHOUT DAMAGE OR SEPARATION OF ANY PARTS FROM THE SIGNAL HEAD ASSEMBLY.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
LOUVERED BACKPLATE FOR POLE MOUNTED SIGNAL	
DATE 07-01-17	DWG. NO. 841

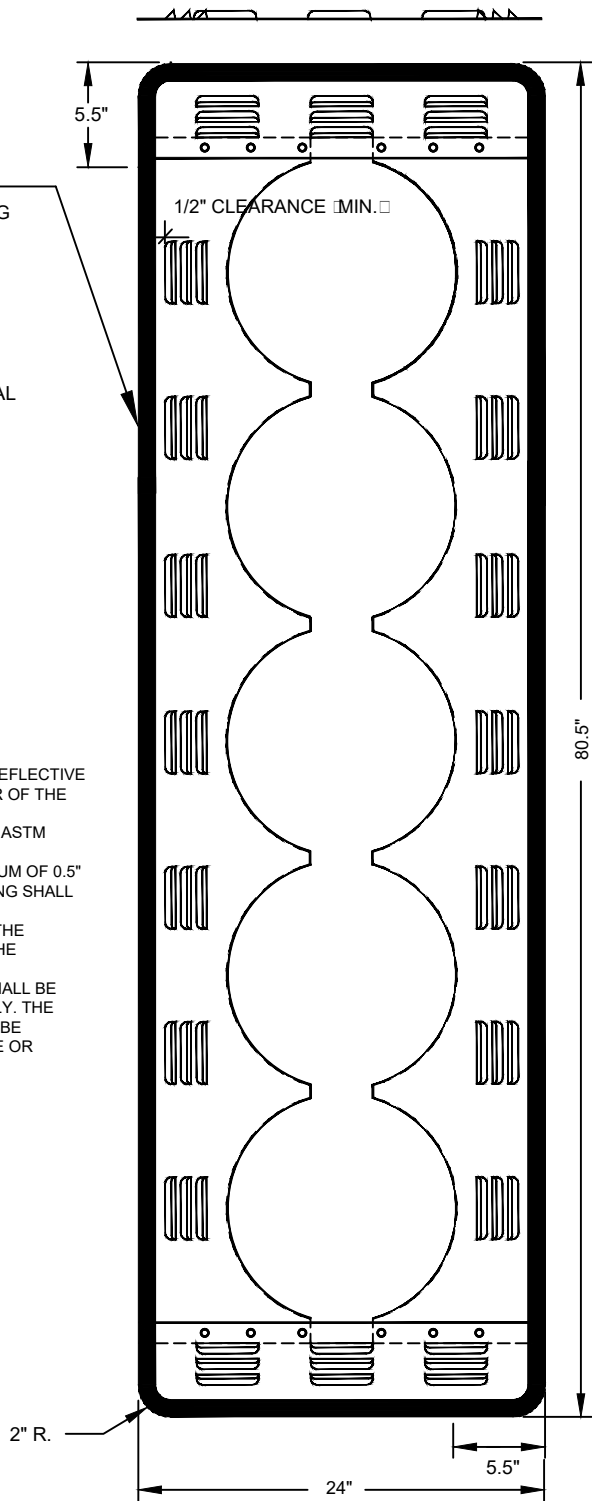
Effective 10/08/2020 to 12/09/2020

2" YELLOW RETROREFLECTIVE
BORDER LINE ADHESIVE SHEETING

PAINT FLAT BLACK
SHOWN 5 SECTION, 12" SIGNAL
HEAD BACKPLATE WITHOUT
ELEVATOR PLUMBIER

NOTES

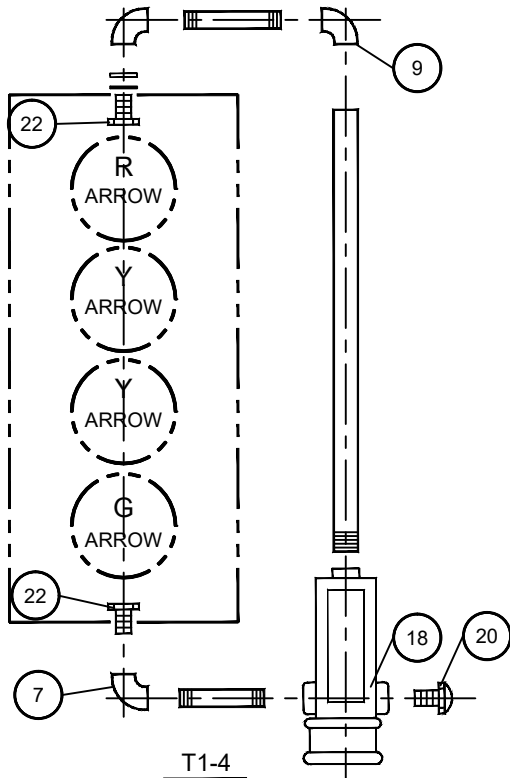
1. ALL TRAFFIC SIGNAL BACKPLATES SHALL HAVE A 2-INCH RETROREFLECTIVE ADHESIVE SHEETING BORDER ON THE ENTIRE OUTER PERIMETER OF THE FRONT SIDE OF THE BACKPLATE.
2. RETROREFLECTIVE SHEETING SHALL BE FLUORESCENT YELLOW, ASTM D495-13 TYPE XI OR BETTER.
3. THE RETROREFLECTIVE SHEETING BORDER SHALL HAVE A MINIMUM OF 0.5" CLEARANCE FROM ALL LOUVERS. NO RETROREFLECTIVE SHEETING SHALL BE PLACED OVER ANY LOUVERED AREA.
4. RETROREFLECTIVE SHEETING BORDER SHALL BE INSTALLED BY THE MANUFACTURER, AND MODIFICATIONS SHALL NOT BE MADE BY THE CONTRACTOR.
5. THE BACK PLATE WITH RETROREFLECTIVE SHEETING BORDER SHALL BE FROM THE SAME MANUFACTURER AS THE SIGNAL HEAD ASSEMBLY. THE COMPLETE HEAD ASSEMBLY, INCLUDING THE BACKPLATE, SHALL BE CAPABLE OF WITHSTANDING WINDS OF 90 MPH WITHOUT DAMAGE OR SEPARATION OF ANY PARTS FROM THE SIGNAL HEAD ASSEMBLY.



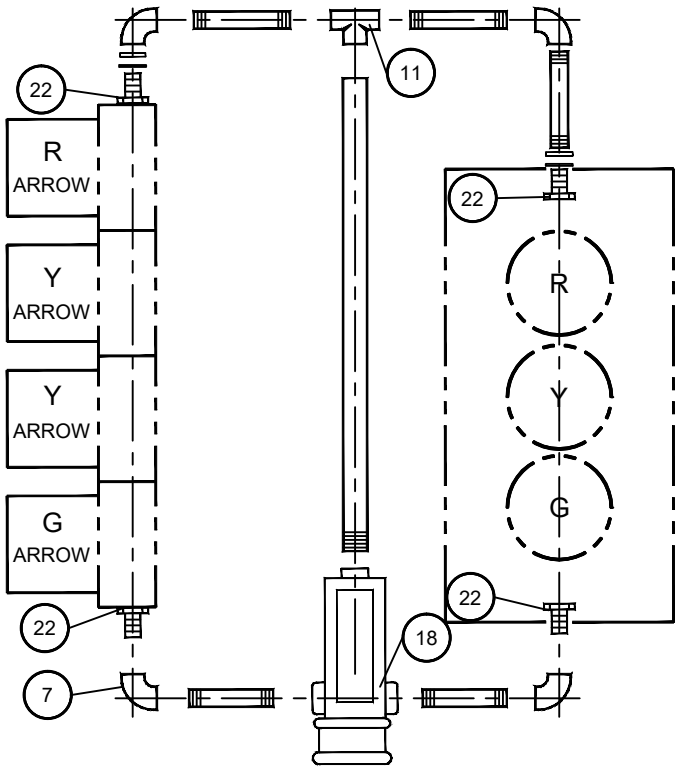
Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		LOUVERED BACKPLATE FOR 5 SECTION SIGNAL HEAD						
		DATE 07-01-17	DWG. NO. 842		SHEET 1 OF 2			

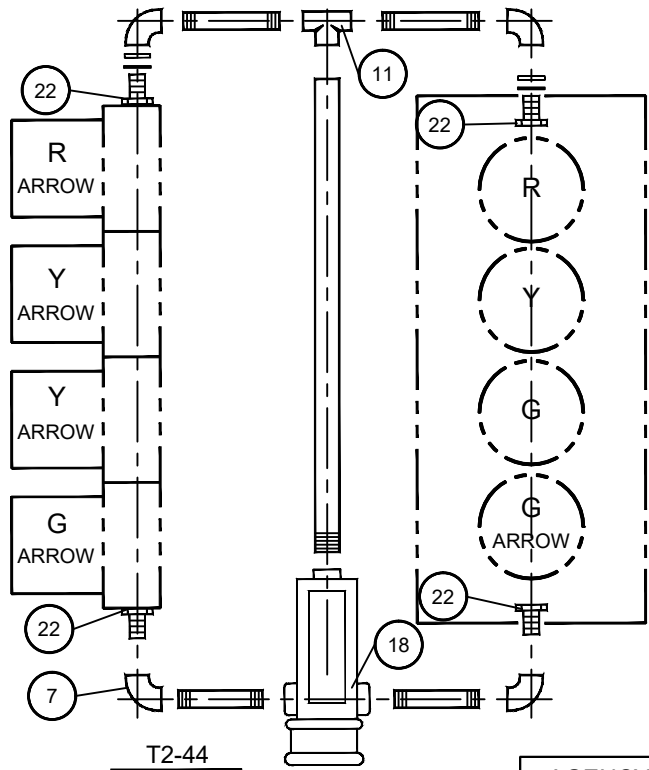
Effective 10/08/2020 to 12/09/2020



T1-4



T2-43



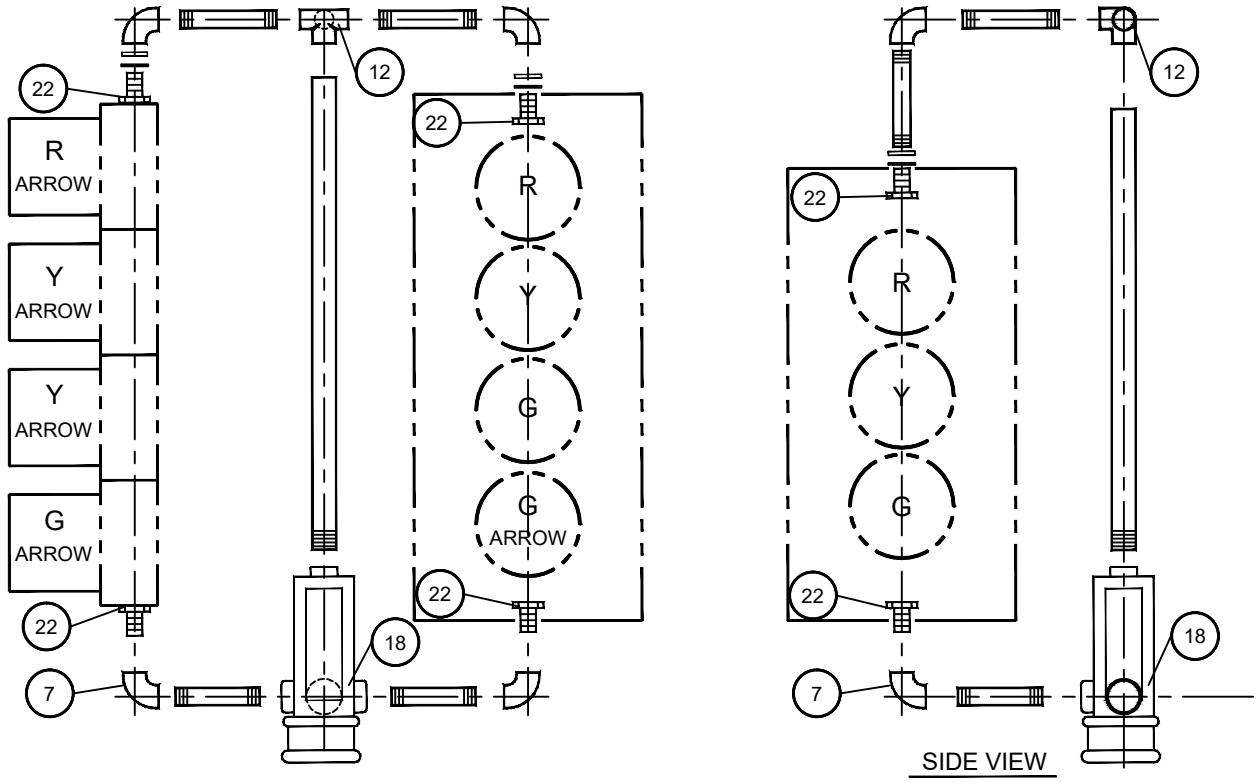
T2-44

NOTES

1. ALL SIGNALS ARE 12" NOMINAL.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.
3. FOR ARROW LENS SEE DRAWING NO. 890.

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SIGNAL ASSEMBLIES POST TOP MOUNT						
DATE 07-01-14	DWG. NO. 843	SHEET		1 OF 2		

SPECIFICATION REFERENCE	



T3-443

NOTES

1. ALL SIGNALS ARE 12" NOMINAL.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.
3. FOR ARROW LENS SEE DRAWING NO. 890.



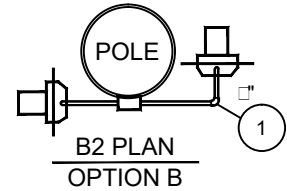
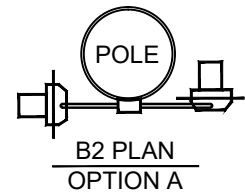
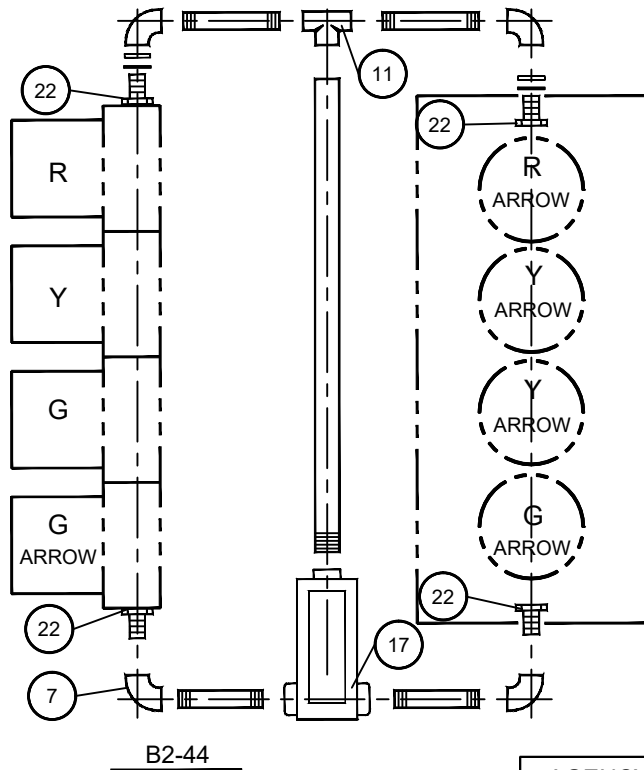
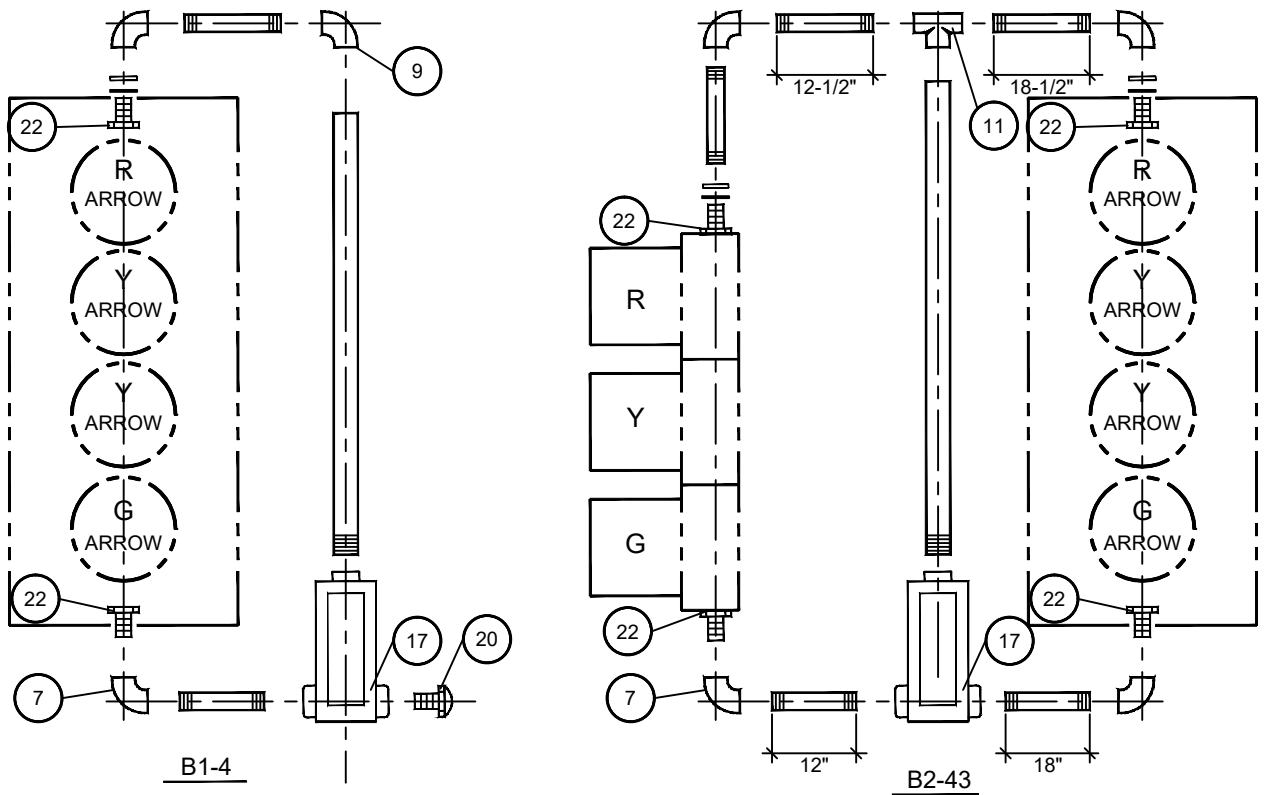
T3-443B [OPTIONAL]

SIDE VIEW

AGENCY APPROVED						B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
SIGNAL ASSEMBLIES POST TOP MOUNT											
DATE 07-01-14				DWG. NO. 843				SHEET 2 OF 2			

SPECIFICATION REFERENCE	

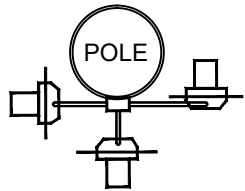
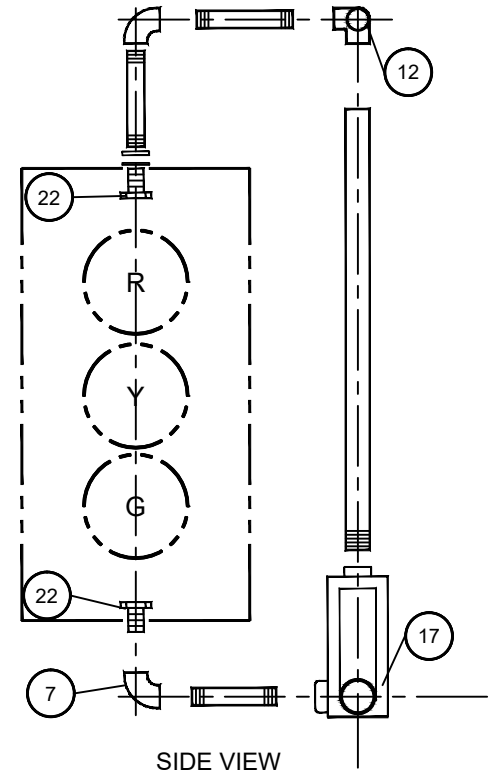
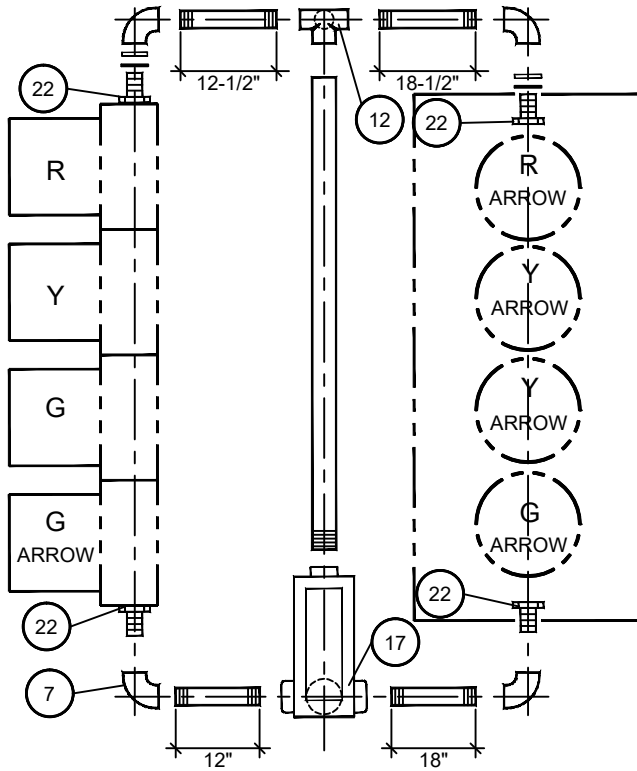
Effective 10/08/2020 to 12/09/2020



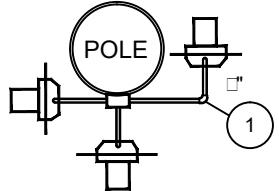
NOTES

1. ALL SIGNALS ARE 12" NOMINAL.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.
3. FOR ARROW LENS SEE DRAWING NO. 890.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SIGNAL ASSEMBLIES BRACKET MOUNT						
		DATE 07-01-14	DWG. NO. 844		SHEET 1 OF 2			



B3 PLAN
OPTION A



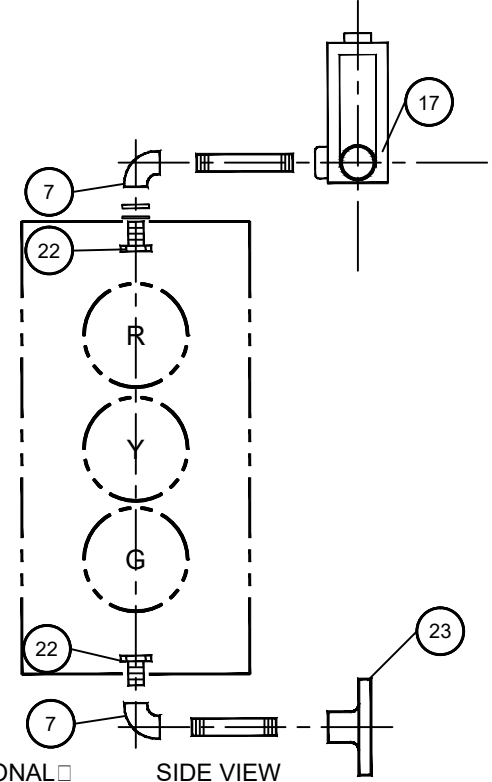
B3 PLAN
OPTION B

NOTES

1. ALL SIGNALS ARE 12" NOMINAL.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.
3. FOR ARROW LENS SEE DRAWING NO. 890.

B3-443

B3-443L [OPTIONAL]



SIDE VIEW

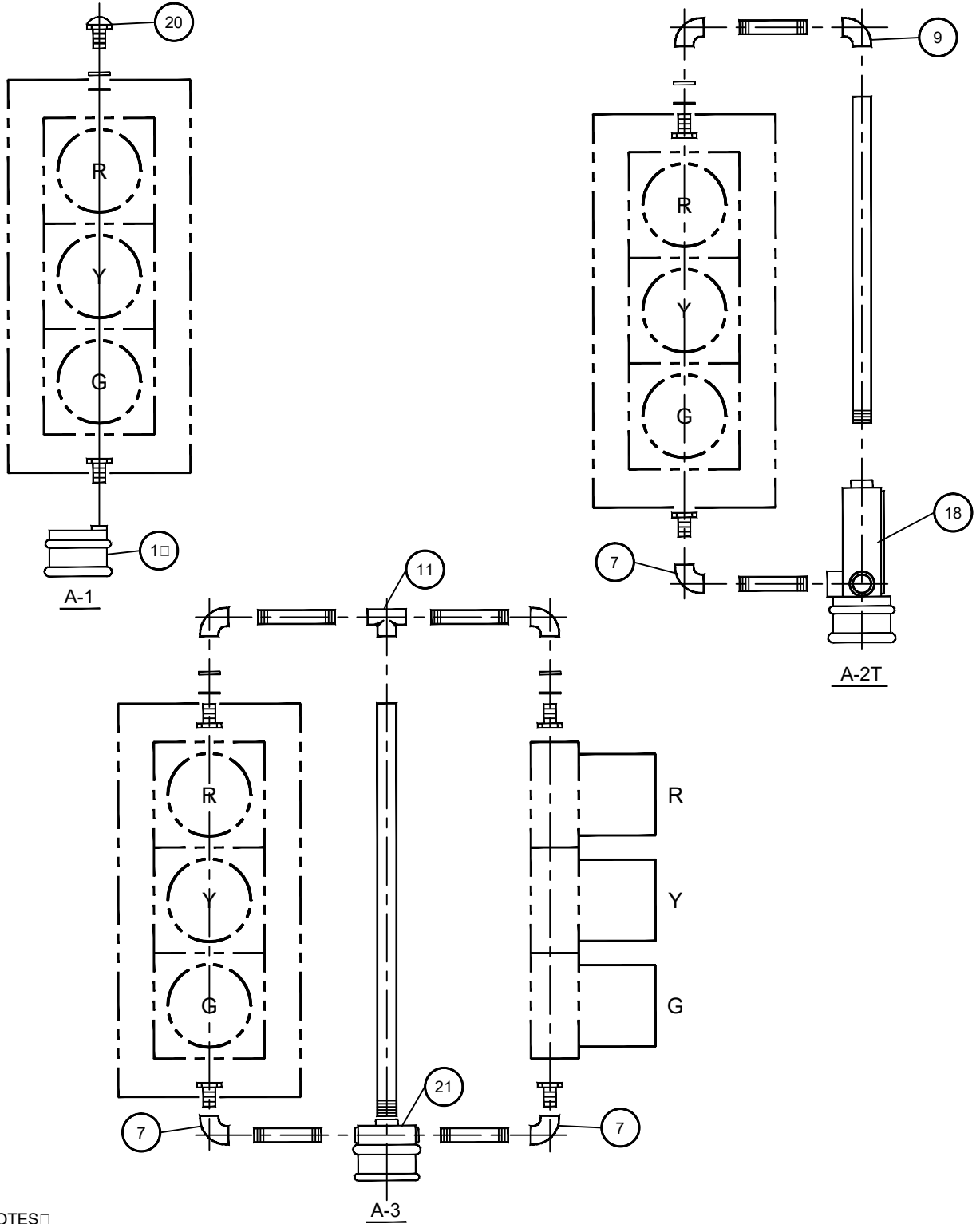
AGENCY APPROVED						B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
SIGNAL ASSEMBLIES BRACKET MOUNT											
DATE 07-01-14			DWG. NO. 844			SHEET			2 OF 2		

SPECIFICATION REFERENCE	

ITEM	DESCRIPTION	STANDARD DWG. NO.
1.	DOGLEG	8□3
2.	ELEVATOR PLUMBI□ER	875
3.	POLE PLATE WITH WIRE GUIDE	87□
4.	2-WAY TIE BRACE	872
5.	3-WAY TIE BRACE	872
□	4-WAY TIE BRACE	872
7.	SPECIAL ELBOW	874
8.	SPECIAL TEE	874
9.	MALLEABLE ELBOW-REAMED/SET SCREW	878
10.	MALLEABLE ELBOW/SIDE OUTLET/REAMED/SET SCREW	878
11.	MALLEABLE TEE, REAMED/SET SCREW	878
12.	MALLEABLE TEE/SIDE OUTLET, REAMED/SET SCREW	878
13.	MALLEABLE CROSS, REAMED/SET SCREW	878
14.	MALLEABLE CROSS/SIDE OUTLET, REAMED/SET SCREW	878
15.	4-WAY CENTER HUB	877
1□	POST TOP MOUNTED BRACKET	874
17.	SIDE BRACKET MOUNTED ADAPTER WITH TERMINAL COMPT.	880
18.	POST TOP MOUNTED ADAPTER WITH TERMINAL COMPT.	879
19.	LOCKING RING	872
20.	ORNAMENTAL CAP	872
21.	POST TOP MOUNTED ADAPTER WITH 3 PORTS	880
22.	LOCKING NIPPLE	872
23.	POLE PLATE	873
24.	1-1/2" MENERALLAC STRAP OR APPROVED E□UAL	8□3

AGENCY APPROVED	B	C	H	L	M	N
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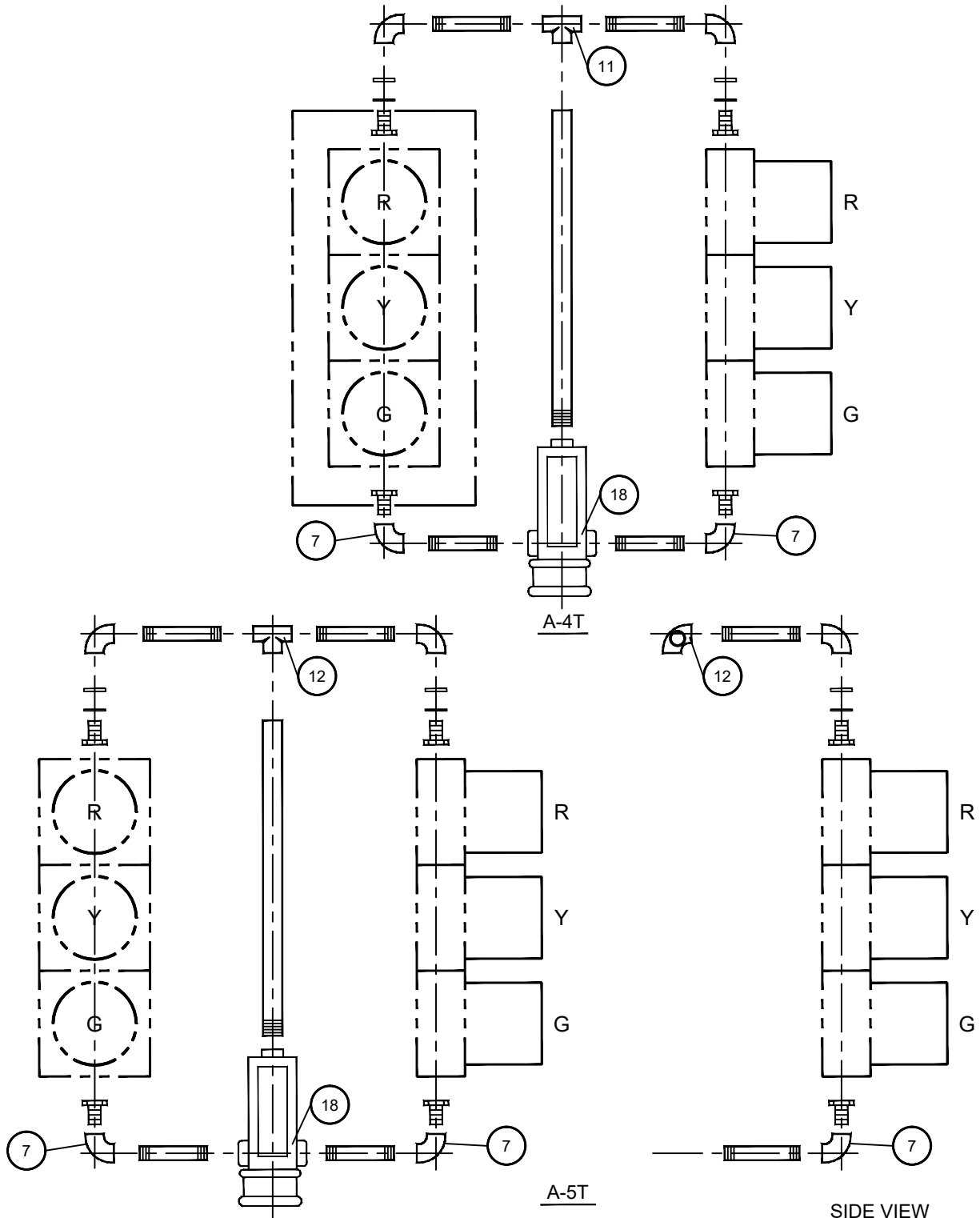
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
		BILL OF MATERIALS SIGNAL ASSEMBLIES			
		DATE □10-9-08	DWG. NO. 845		



NOTES

- 1. ALL SIGNALS ARE 12" NOMINAL GLASS
- 2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.

		AGENCY APPROVED					
		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		SIGNAL ASSEMBLIES A-1, A-2T, A-3					
DATE		DWG. NO. 84					

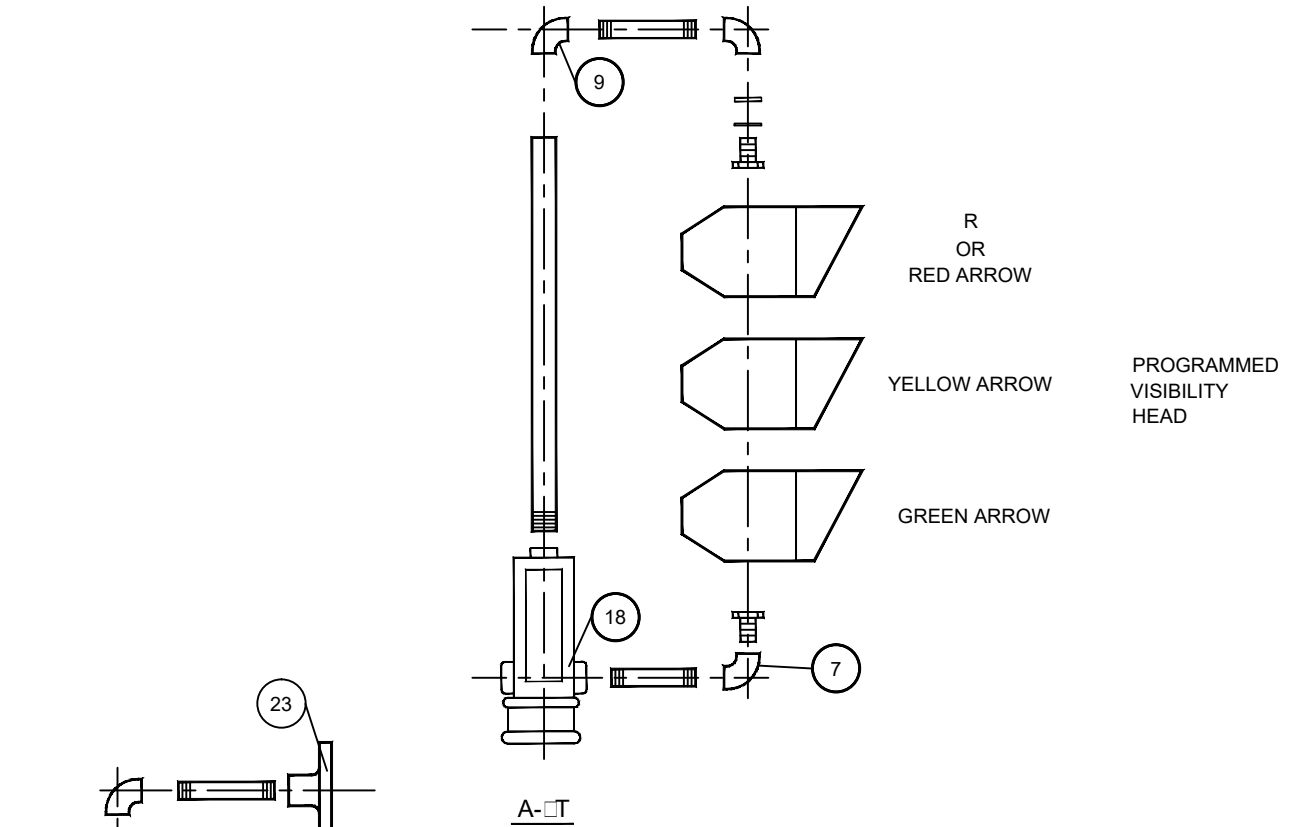


NOTES

1. ALL SIGNALS ARE 12" NOMINAL GLASS
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.

SPECIFICATION REFERENCE	

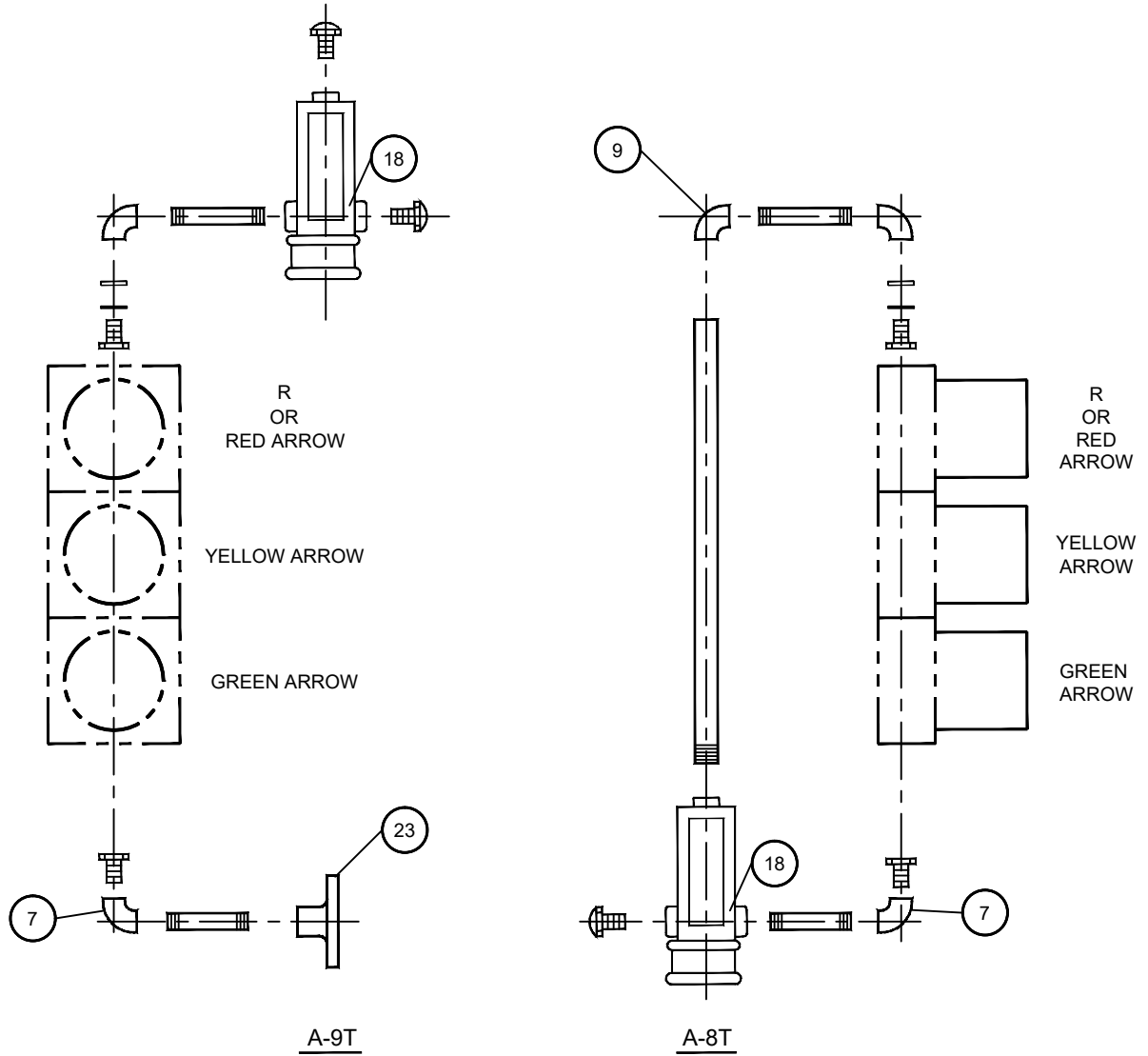
AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SIGNAL ASSEMBLIES A-4T, A-5T						
DATE	DWG. NO. 847					



NOTES

1. ON LOWER ASSEMBLY, ALL INDICATIONS ARE 12" NOMINAL GLASS
 2. SEE DRAWING NO. 890 FOR ARROW LENS.
 3. ON TOP ASSEMBLY, USE M-3 WITH BACKPLATE.
 4. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.
 5. SEE DRAWING NO. 845 FOR ITEMIZED PARTS.
- SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

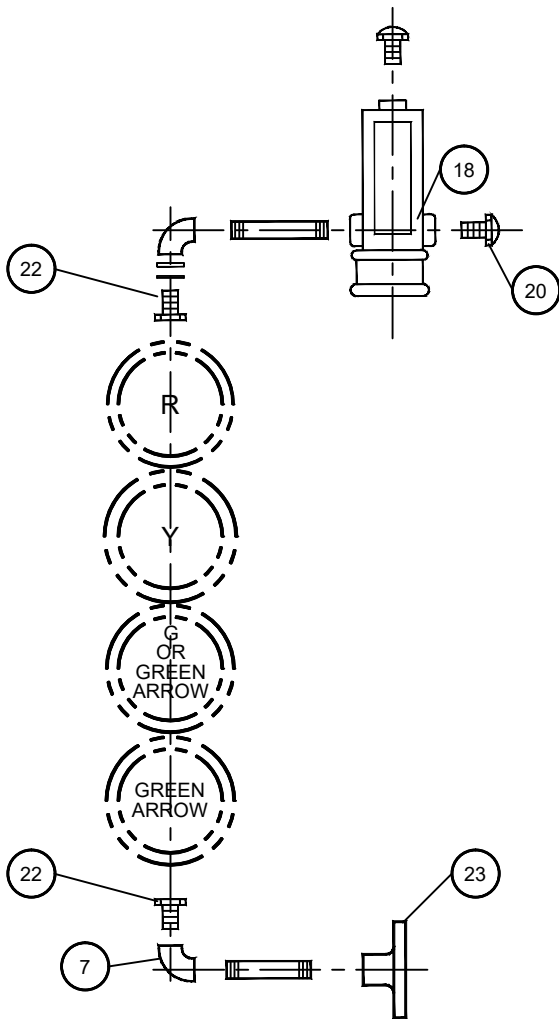
	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	SIGNAL ASSEMBLIES A-T						
	DATE 2-11-93	DWG. NO. 848					



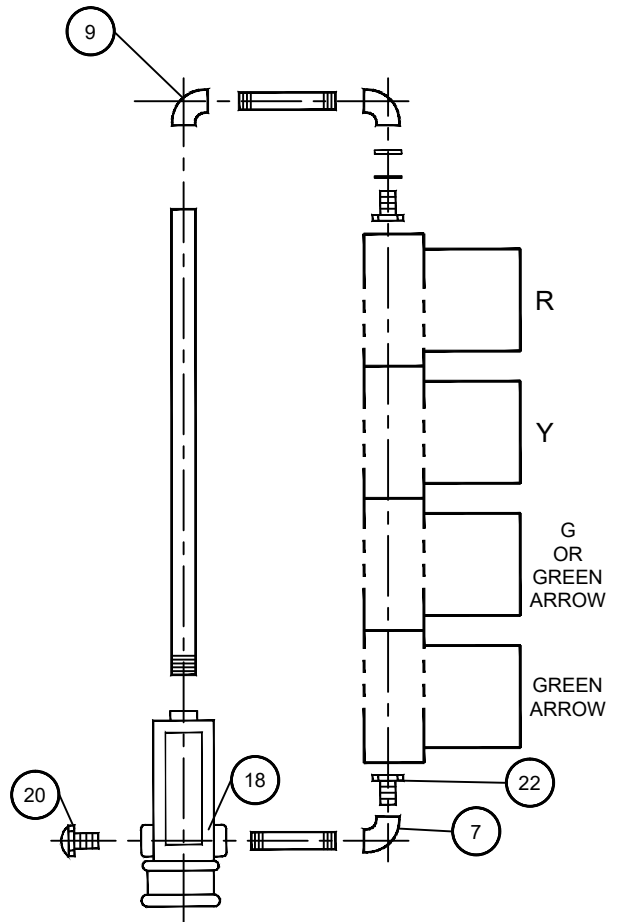
NOTES

1. PROVIDE BACKPLATE ON A-8T.
2. ALL INDICATIONS ARE 12" NOMINAL GLASS
3. SEE DRAWING NO. 890 OR ARROW LENS.
4. SEE DRAWING NO. 845 FOR ITEMIZED PARTS.
5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	SIGNAL ASSEMBLIES A-8T, A-9T						
	DATE	2-11-93	DWG. NO.	849			



A-12T



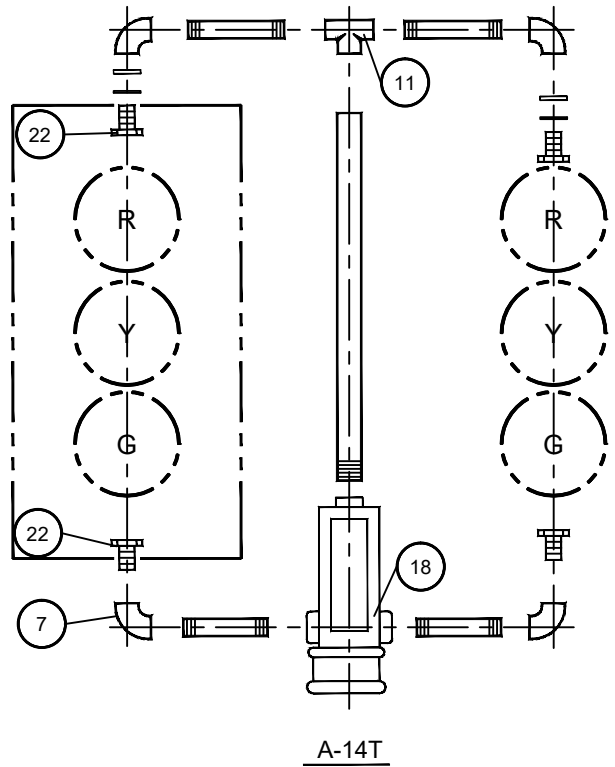
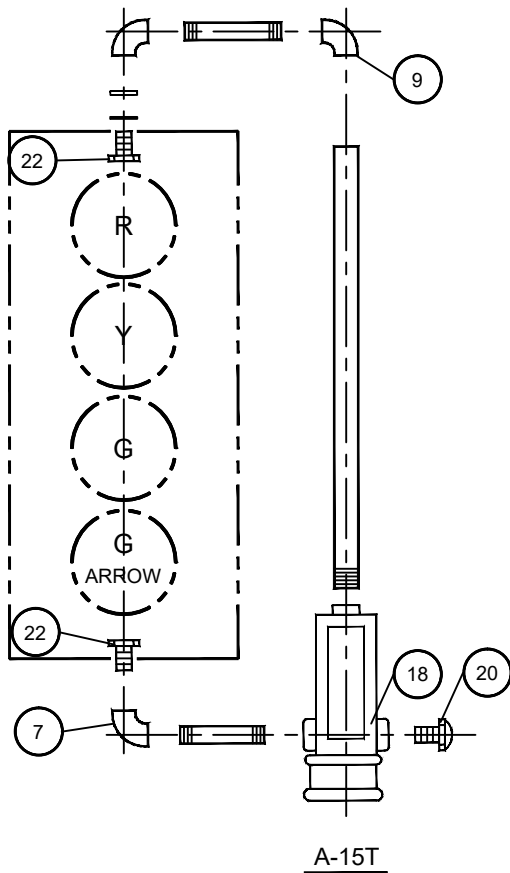
A-13T

NOTES

1. FOR ITEMIZED PARTS SEE DRAWING NO. 845.
2. FOR ARROW LENS SEE DRAWING NO. 890.
3. PROVIDE BACKPLATE ON A-13T ONLY.
4. ALL SIGNALS ARE 12" NOMINAL GLASS

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SIGNAL ASSEMBLIES A-12T, A-13T						
		DATE	2-11-93	DWG. NO.	851			



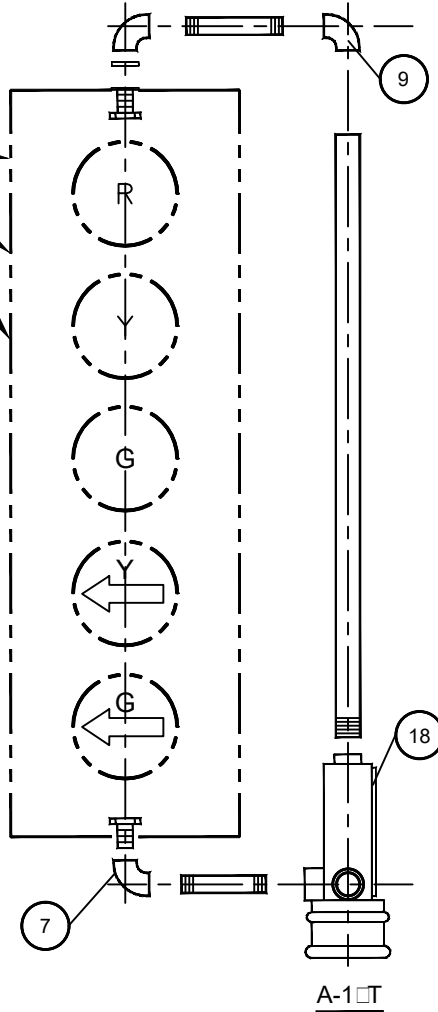
NOTES

1. ALL SIGNALS ARE 12" NOMINAL GLASS
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.
3. FOR ARROW LENS SEE DRAWING NO. 890.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED						B	C	H	L	M	N
SPECIFICATION REFERENCE						UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
						SIGNAL ASSEMBLIES A-14T, A-15T					
DATE			DWG. NO. 852								

OPTIONAL
CUTOFF
LOUVERS
SEE NOTE 5

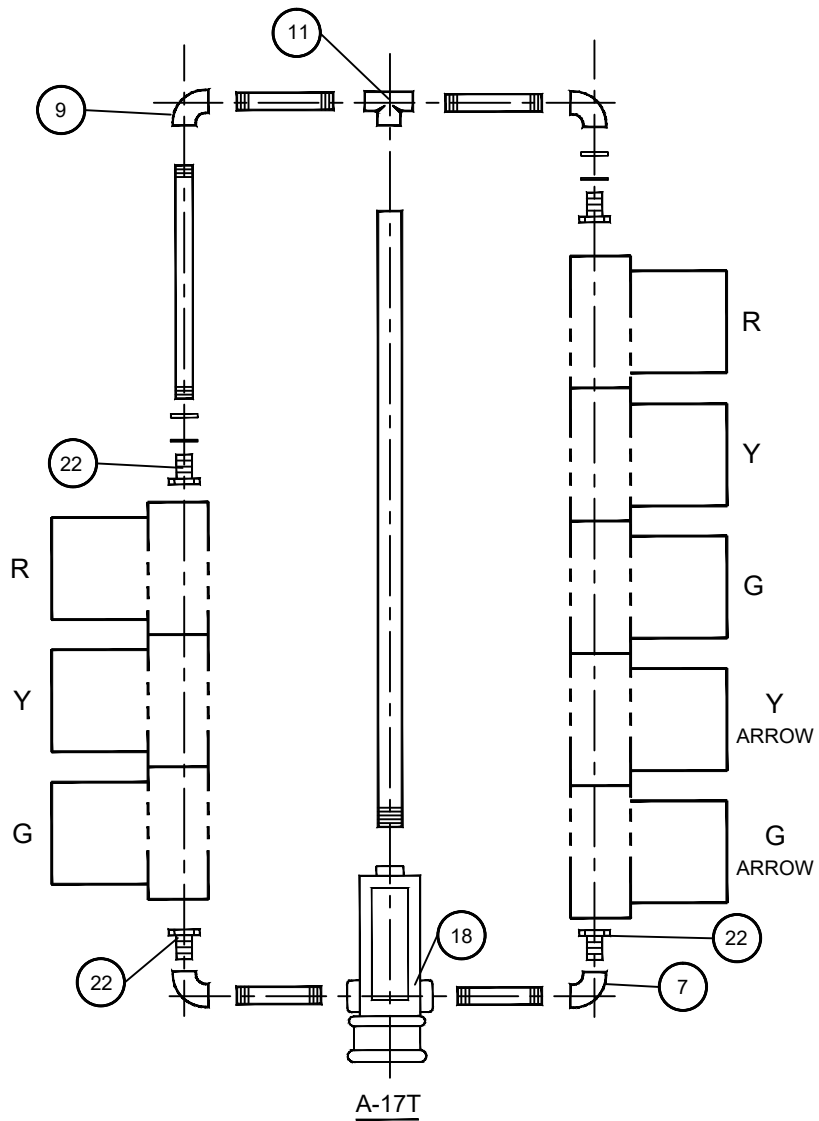


NOTES

1. ALL SIGNALS ARE 12" NOMINAL GLASS
2. FOR ITEMIZED PARTS SEE DRAWING NO. 845.
3. FOR ARROW LENS SEE DRAWING NO. 890.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.
5. OPTIONAL 3° CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SIGNAL ASSEMBLIES A-1						
		DATE 5-12-94	DWG. NO. 853					



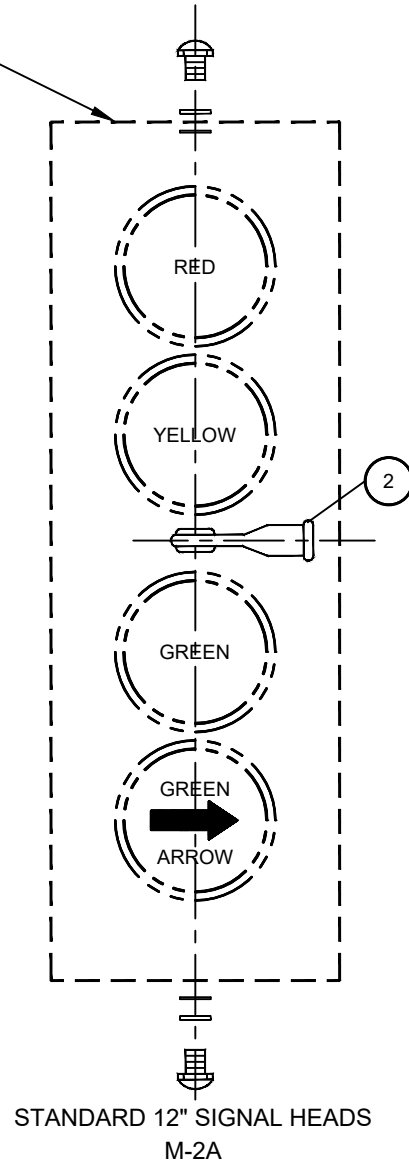
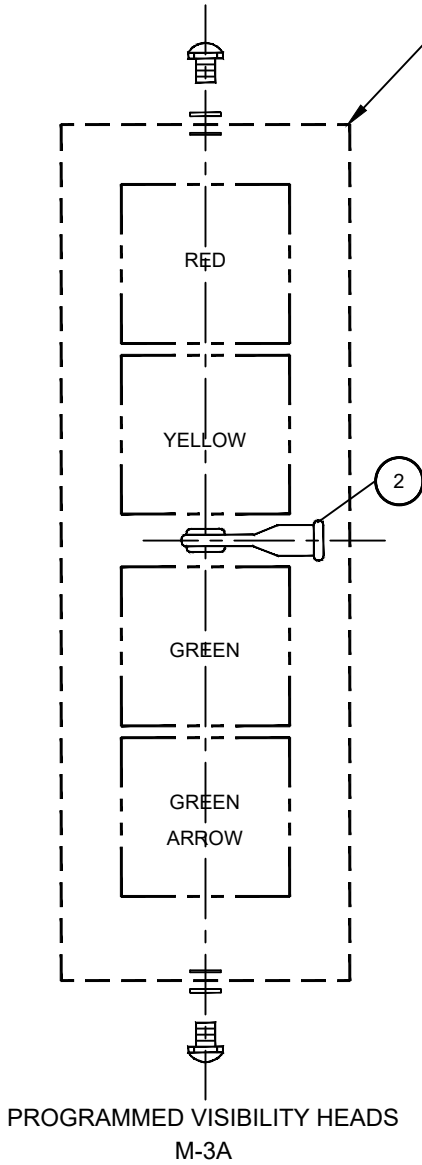
NOTES

1. FOR ITEMIZED PARTS SEE DRAWING NO. 845.
2. FOR ARROW LENS SEE DRAWING NO. 890.
3. SEE PLANS FOR BACKPLATE REQUIREMENTS.
4. ALL SIGNALS ARE 12" NOMINAL GLASS

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED						B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
		SIGNAL ASSEMBLIES A-17T											
		DATE		DWG. NO.		854							

PROVIDE LOUVERED BACKPLATE
SIMILAR TO DRAWING 840



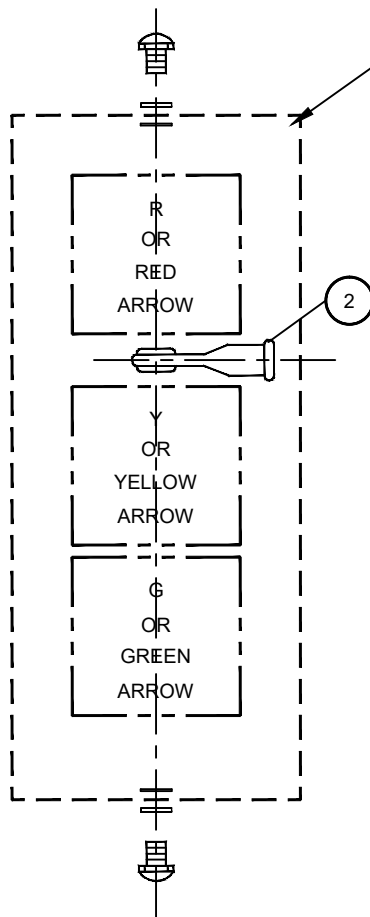
NOTES

1. ALL SIGNALS ARE 12" NOMINAL GLASS
2. FOR ITEMIZED PARTS, SEE DRAWING 845.

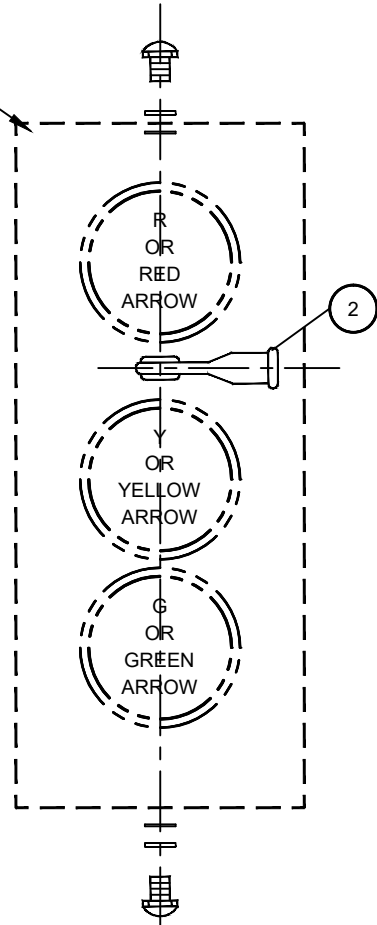
Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
		MAST ARM SIGNAL ASSEMBLIES M-2A, M-3A											
		DATE		DWG. NO.		855							

PROVIDE LOUVERED BACKPLATE
SIMILAR TO DRAWING 840



PROGRAMMED VISIBILITY HEADS
M-3



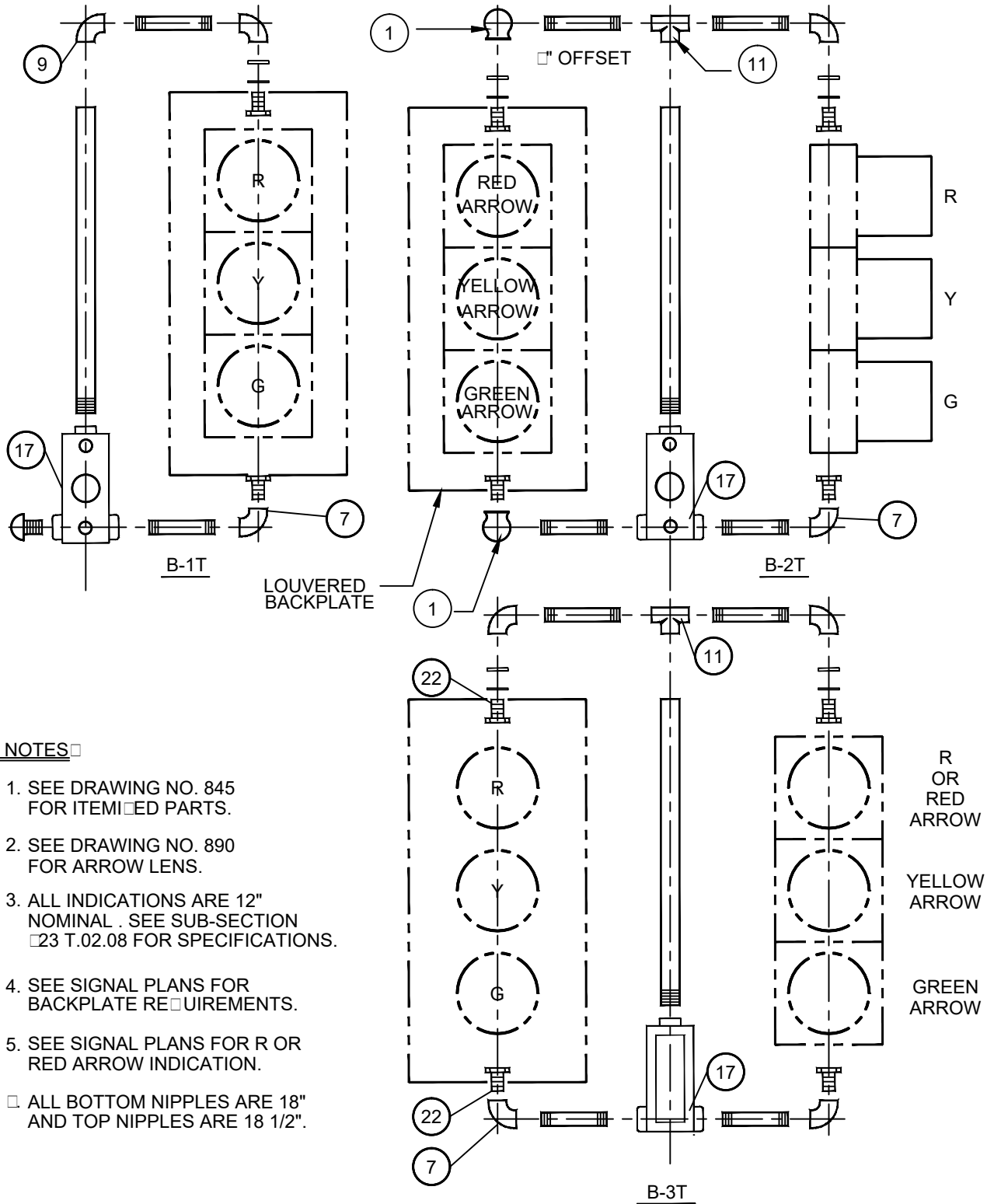
STANDARD 12" SIGNAL HEADS
M-2

NOTES

1. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.
2. ALL M-2 INDICATIONS ARE 12" NOMINAL GLASS.
3. SEE DRAWING NO. 845 FOR ITEMIZED PARTS.
4. SEE SIGNAL PLANS FOR BALL OR ARROW INDICATIONS.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED							B	C	H	L	M	N
SPECIFICATION REFERENCE							UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
							MAST ARM SIGNAL ASSEMBLIES M-3, M-2					
DATE 2-11-93							DWG. NO.		85			

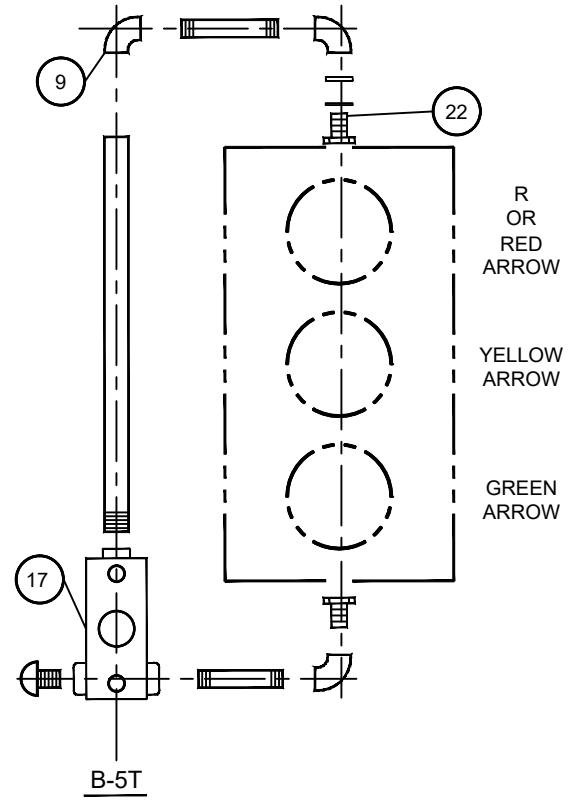
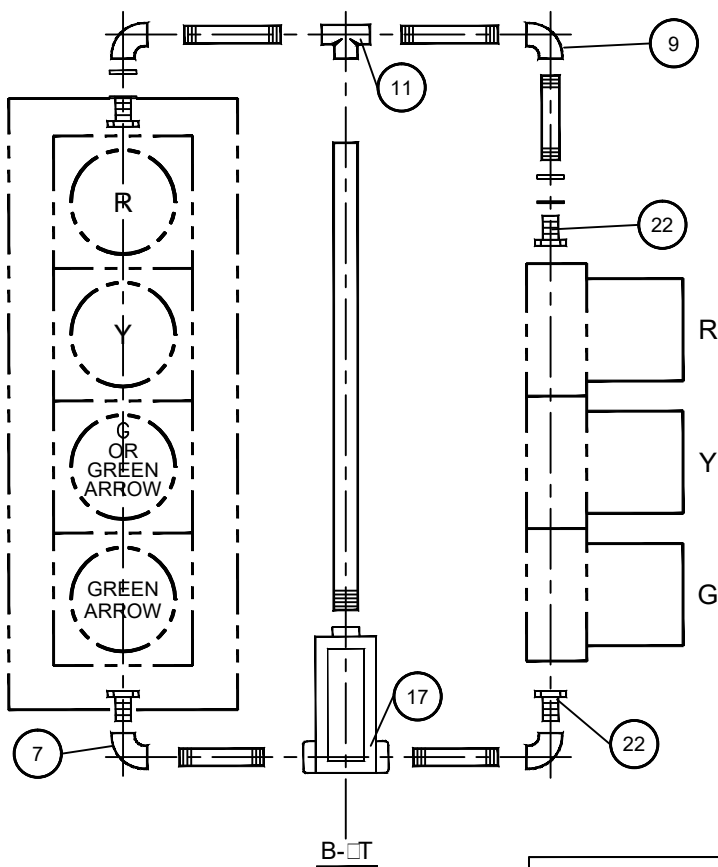


NOTES

1. SEE DRAWING NO. 845 FOR ITEMIZED PARTS.
 2. SEE DRAWING NO. 890 FOR ARROW LENS.
 3. ALL INDICATIONS ARE 12" NOMINAL . SEE SUB-SECTION 23 T.02.08 FOR SPECIFICATIONS.
 4. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.
 5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
- ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".

AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
SIGNAL ASSEMBLIES B-1T, B-2T, B-3T						
DATE 10-9-08	DWG. NO. 858					

Effective 10/08/2020 to 12/09/2020



NOTES

1. SEE DRAWING NO. 845 FOR ITEMIZED PARTS.
 2. SEE DRAWING NO. 890 FOR ARROW LENS.
 3. ALL INDICATIONS ARE 12" NOMINAL GLASS.
 4. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.
 5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
- ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".

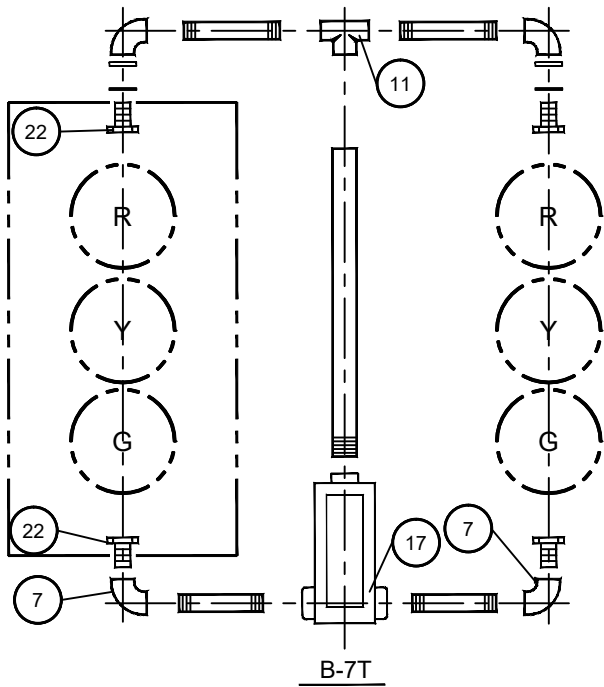
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

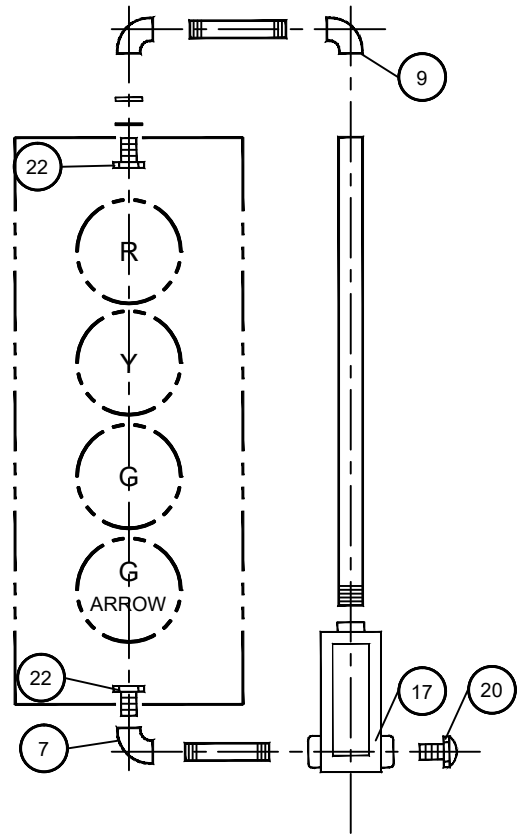
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-5T, B-T

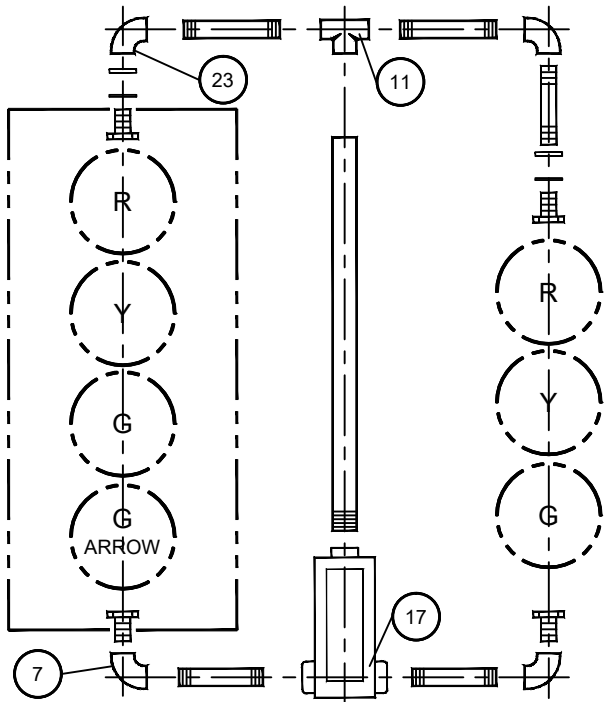
DATE 2-11-93	DWG. NO. 859
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B-7T



B-8T

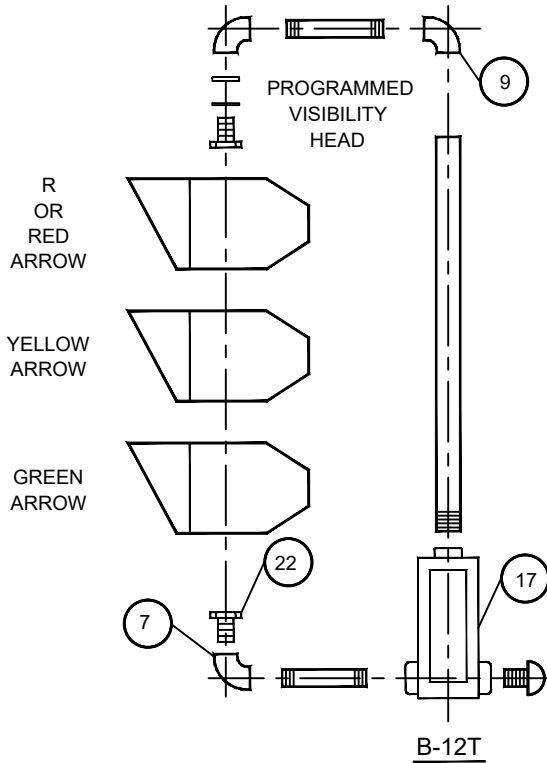


B-9T

NOTES

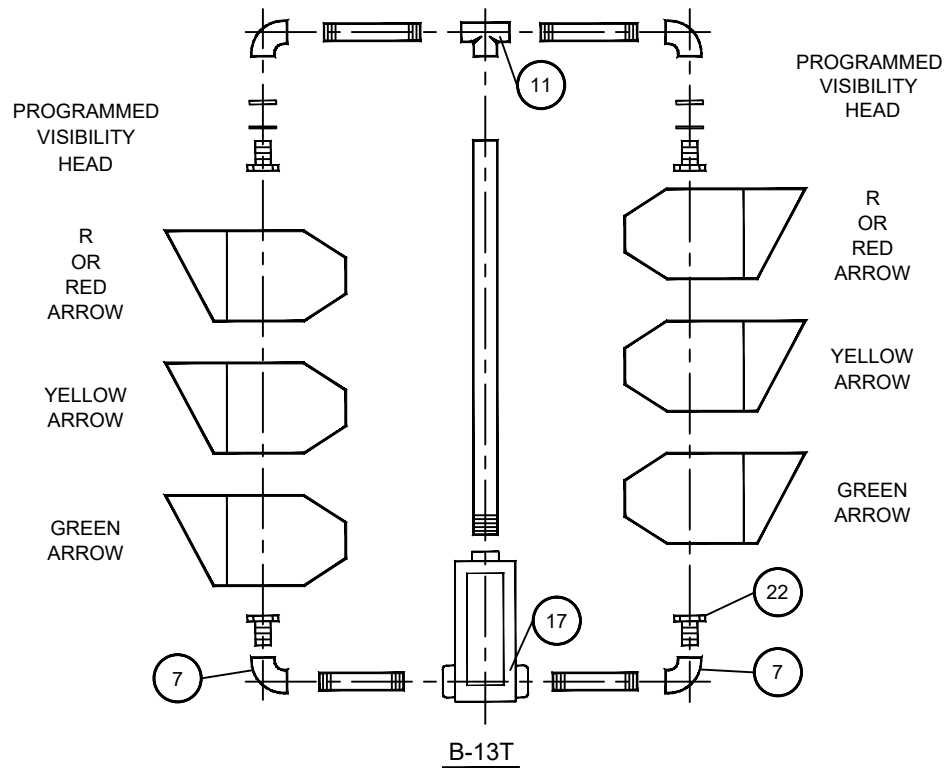
1. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.
2. FOR ARROW LENS SEE DRAWING NO. 890.
3. ALL SIGNALS ARE 12" NOMINAL GLASS UNLESS NOTED.

AGENCY APPROVED		B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		SIGNAL ASSEMBLIES B-7T, B-8T, B-9T					
DATE	DWG. NO. 800						



NOTES

1. SEE DRAWING NO. 845 FOR ITEMIZED PARTS.
2. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEADS.
3. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.
4. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
5. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".



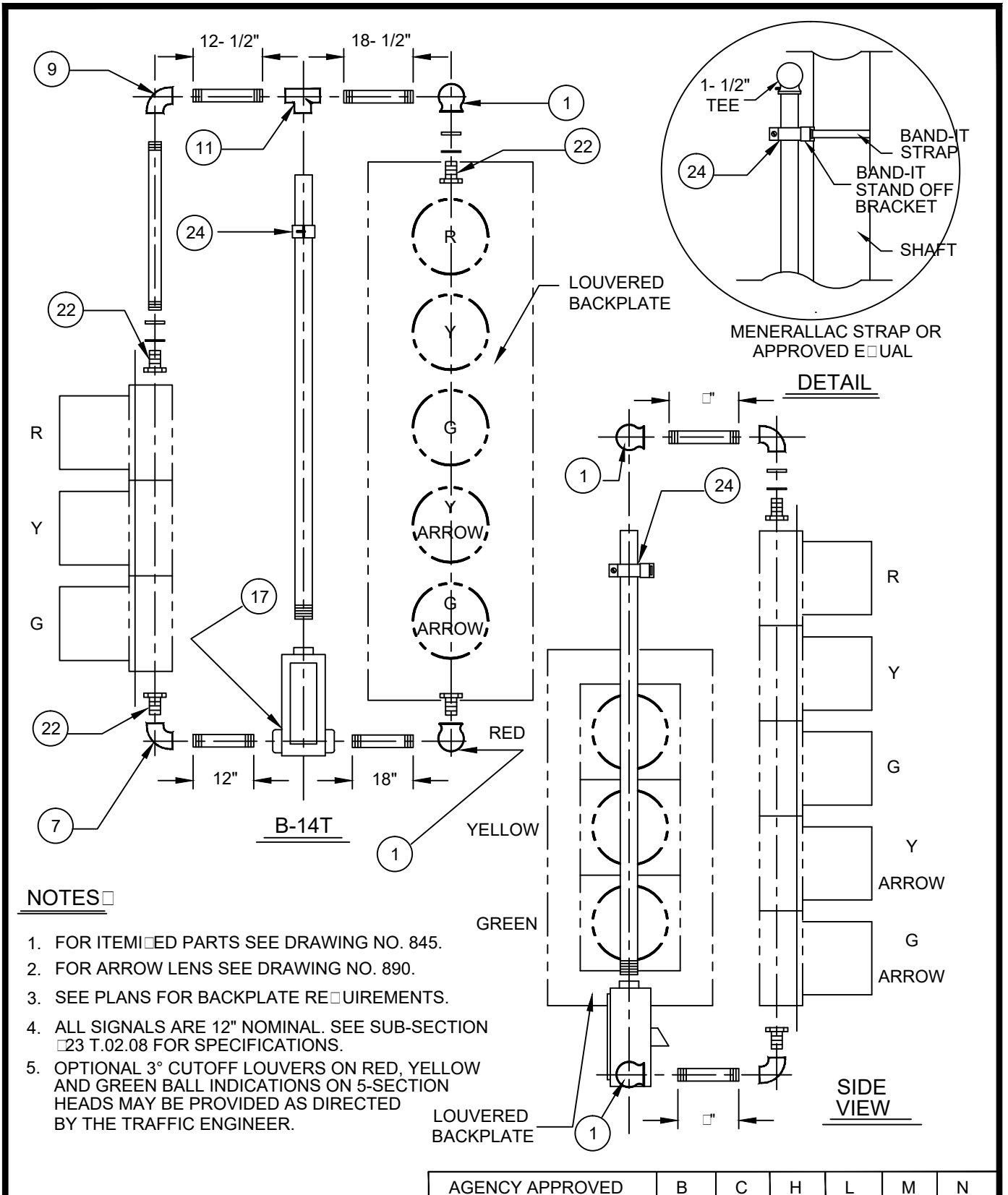
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-12T, B-13T

DATE	2-11-93	DWG. NO.	802
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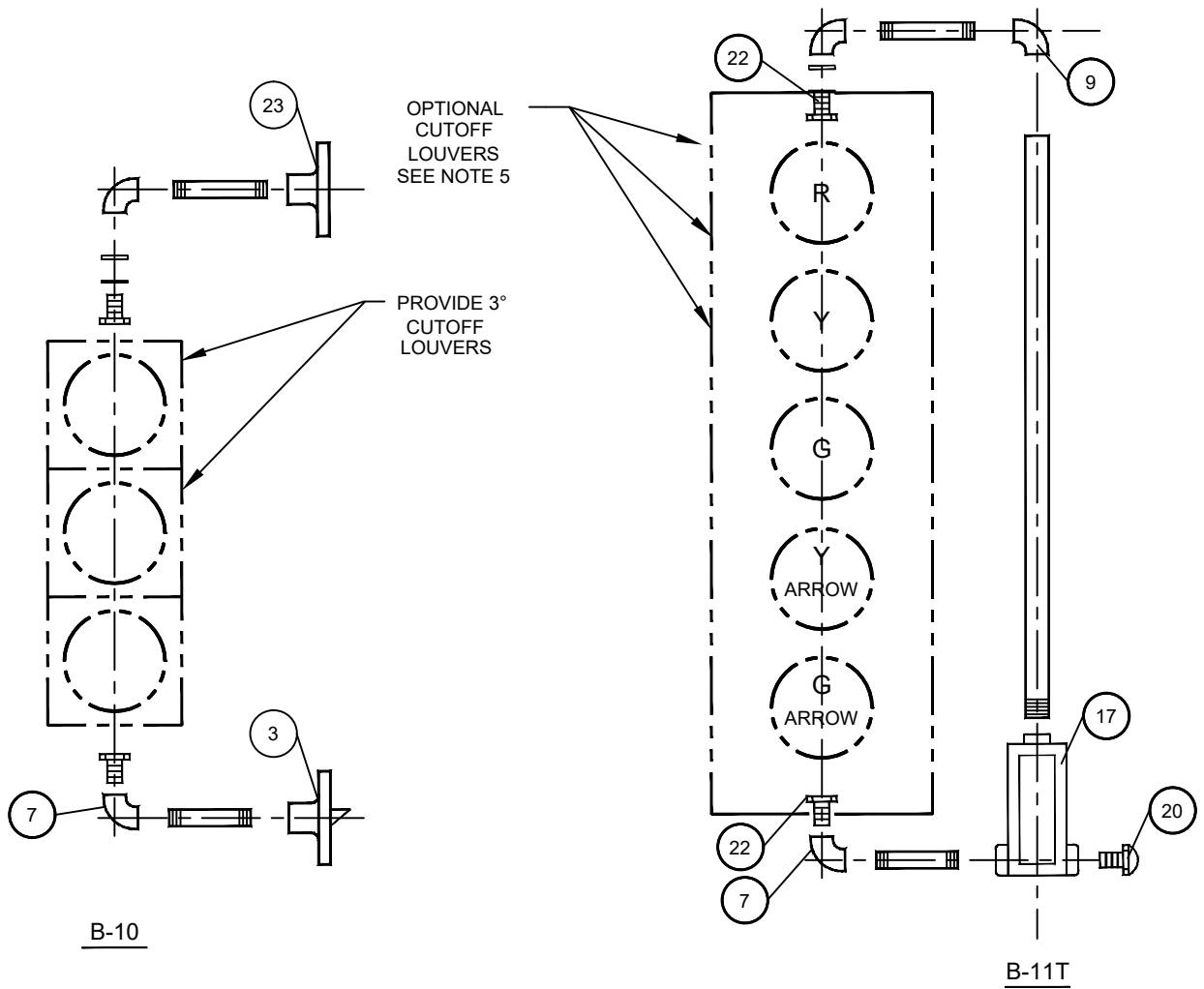
NOTES

1. FOR ITEMIZED PARTS SEE DRAWING NO. 845.
2. FOR ARROW LENS SEE DRAWING NO. 890.
3. SEE PLANS FOR BACKPLATE REQUIREMENTS.
4. ALL SIGNALS ARE 12" NOMINAL. SEE SUB-SECTION 23 T.02.08 FOR SPECIFICATIONS.
5. OPTIONAL 3° CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS ON 5-SECTION HEADS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA SIGNAL ASSEMBLIES B-14T		
DATE 10-9-08	DWG. NO. 803	

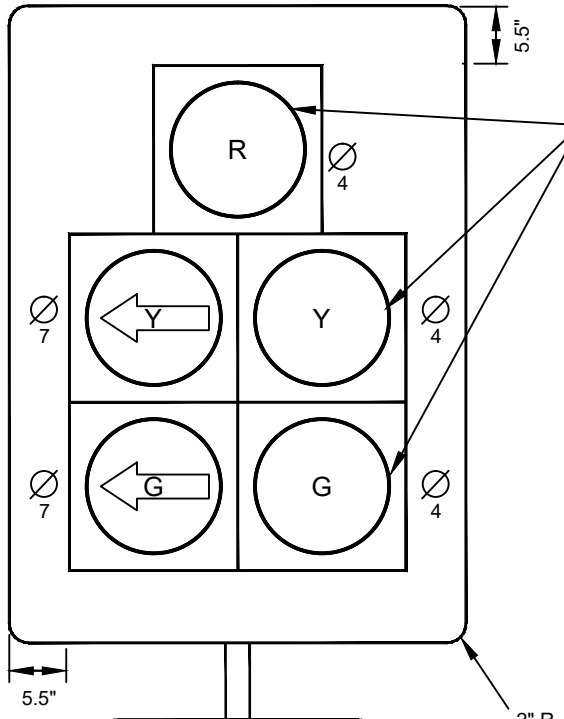


NOTES

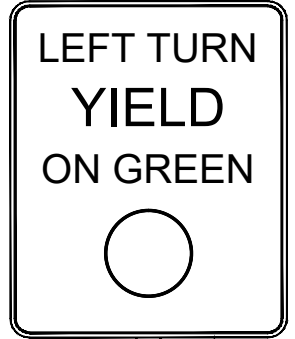
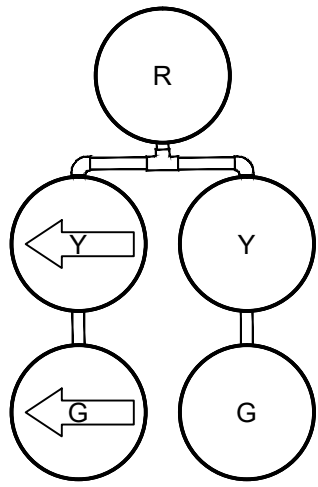
1. ALL SIGNALS ARE 12" NOMINAL GLASS
2. FOR ITEMIZED PARTS SEE DRAWING 845.
3. FOR ARROW LENS SEE DRAWING 890.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.
5. OPTIONAL 3° CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS ON 5-SECTION HEADS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

Effective 10/08/2020 to 12/09/2020

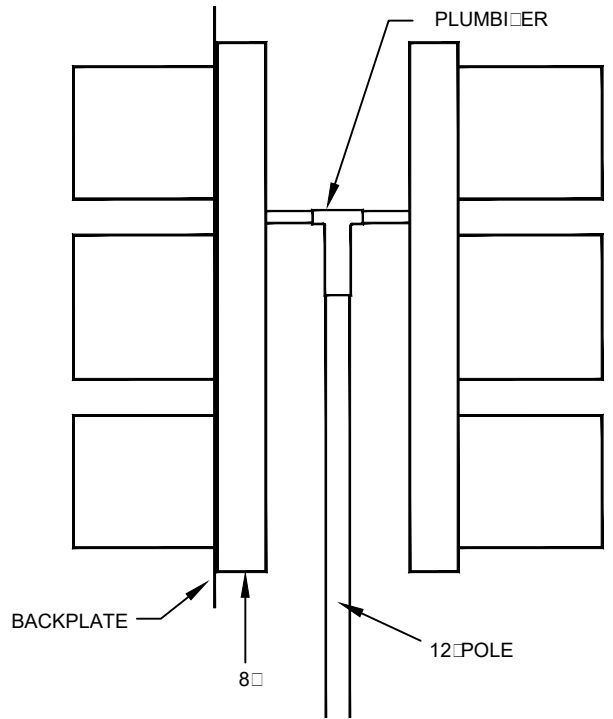
AGENCY APPROVED						B	C	H	L	M	N
SPECIFICATION REFERENCE						UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
						SIGNAL ASSEMBLIES B-10, B-11T					
DATE 5-12-94			DWG. NO. 84								



OPTIONAL
CUTOFF
LOUVERS
SEE NOTE 3



R10-12
24" X 30"
MIN.



SIDE VIEW

POST MOUNTING

NOTES

1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3° CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

AGENCY APPROVED	B	C	H	L	M	N
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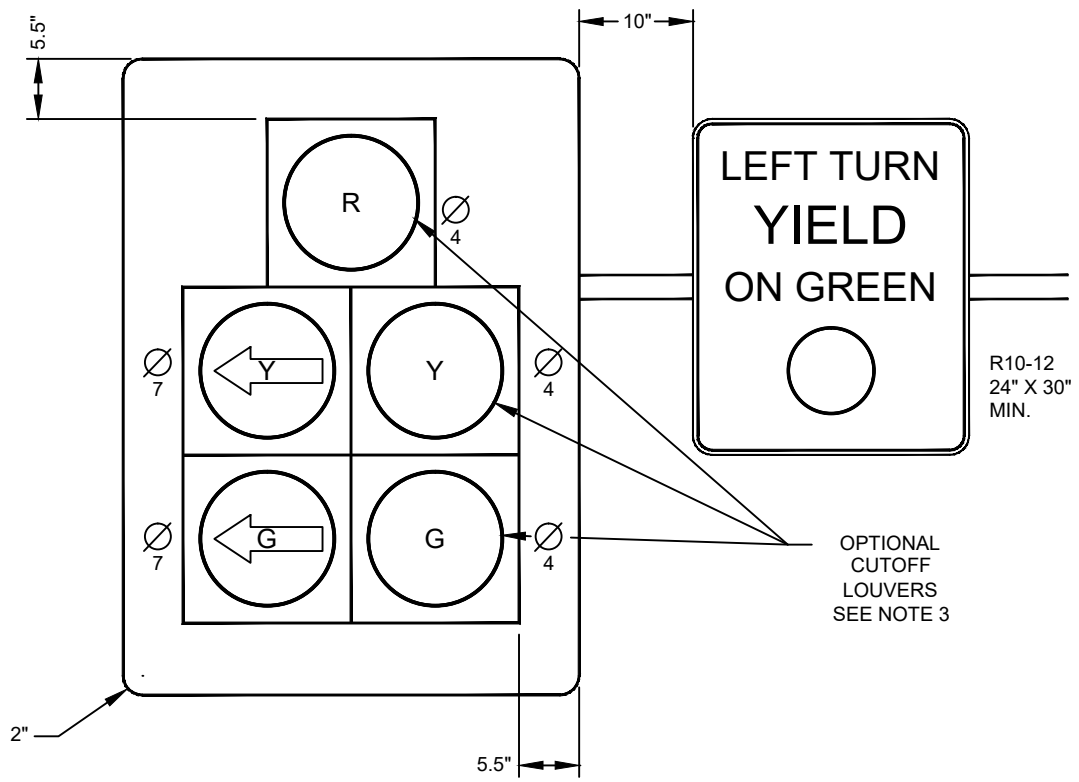
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PROTECTED / PERMISSIVE
M-5 SIGNAL HEADS

DATE 5-12-94	DWG. NO. 8-5	SHEET 1 OF 4
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Effective 10/08/2020 to 12/09/2020



NOTES

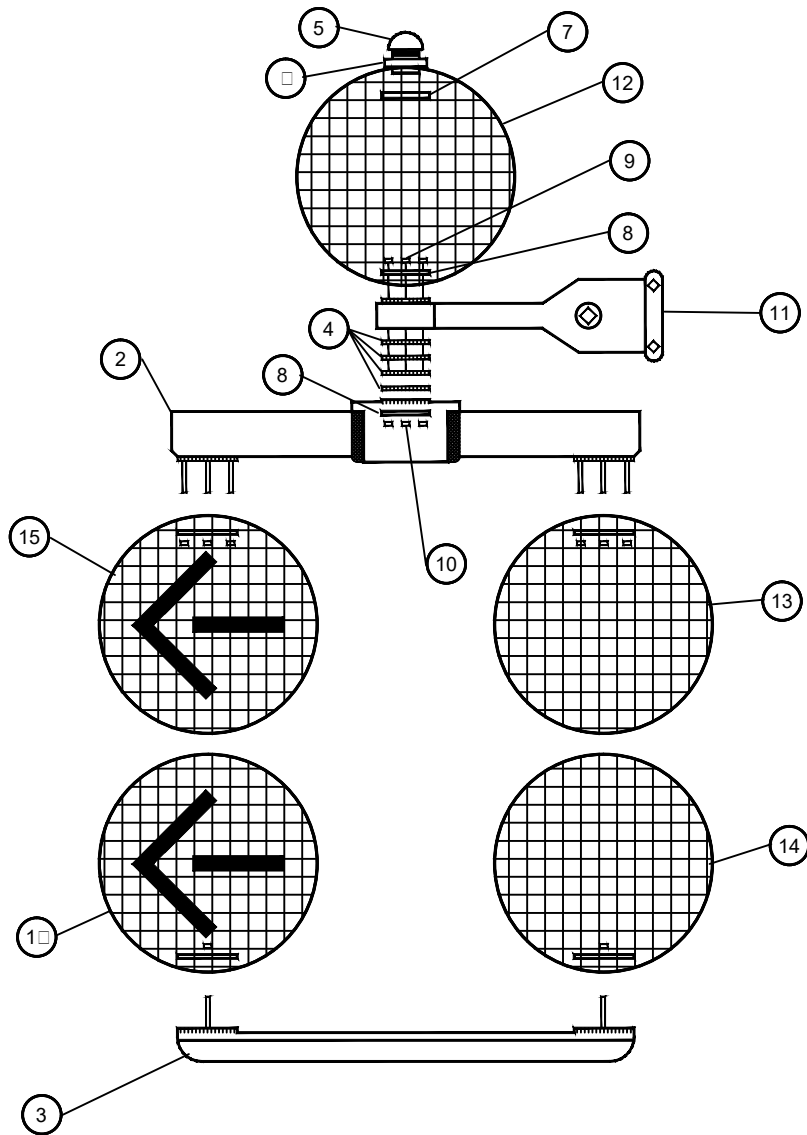
1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3° CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

MAST ARM MOUNTING

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		PROTECTED / PERMISSIVE M-5 SIGNAL HEADS						
		DATE 5-12-94	DWG. NO. 85		SHEET		2 OF 4	

Effective 10/08/2020 to 12/09/2020

Effective 10/08/2020 to 12/09/2020



BACKPLATE TO MATCH
ORDER PART NO. E 2074
NOTES □
UNLESS OTHERWISE SPECIFIED

1 ASSEMBLY

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
		TYPE □ M-5 ASSEMBLIES AND PARTS LIST											
		DATE	DWG. NO. 8□5			SHEET			3 OF 4				

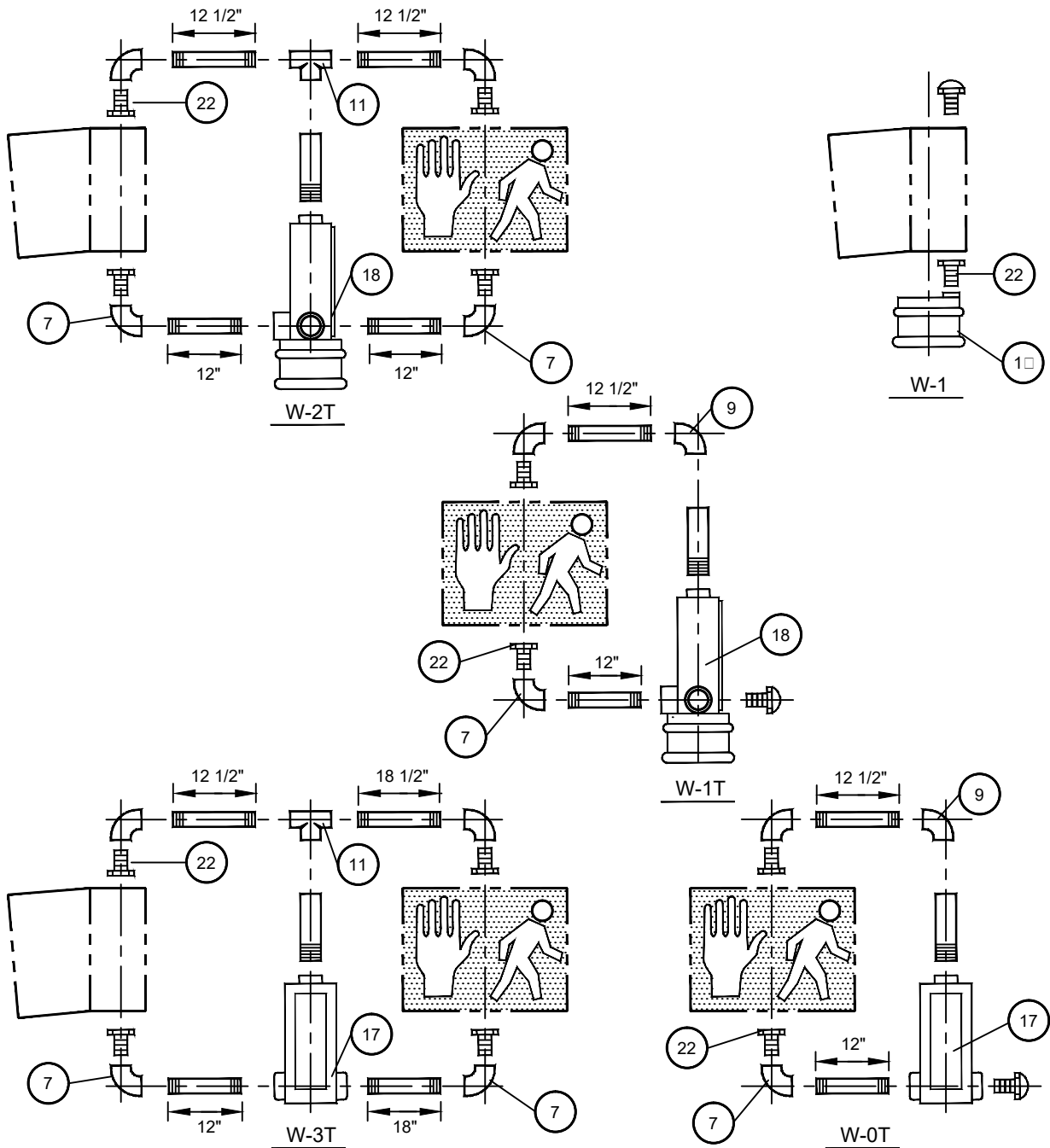
FW 2933 AND SIGNAL ASSEMBLY

FRAMEWORK -- CLUSTER MOUNTING
 1 WAY, 5 COL., 12" ALUMINUM SIGNAL
 WITH ELEVATOR PLUMBING

REF #	PART NO.	DESCRIPTION	REQ.
1	FW2933	ASSEMBLY	X
2	E205P1	TOP BRACKET W/COVER	1
3	E2051P1	BOTTOM BRACKET	1
4	E1270P1	ADAPTOR RING	4
5	E120P	ORNAMENT	1
6	E1251P1	WASHER, NEOPRENE	1
7	55712P	CONDUIT LOCKNUT	1
8	E789P1	ATTACHING WASHER	2
9	E788P2	ATTACHING BOLT	3
10	N210P23C	ATTACHING NUT	3
11	FW0904G	ELEV. PLUMBING, OLD STYLE NO LONGER AVAILABLE	1
12	E4955P1	RED BALL LENS	1
13	E4955P22	YELLOW BALL LENS	1
14	E4955P3	GREEN BALL LENS	1
15	E490P2	YELLOW ARROW LENS	1
16	E490P3	GREEN ARROW LENS	1
17	E2074G5	BACKPLATE	1

Effective 10/08/2020 to 12/09/2020

SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
		TYPE M-5 ASSEMBLIES AND PARTS LIST											
		DATE		DWG. NO.		85		SHEET		4 OF 4			



NOTES

1. FOR GENERAL SPECIFICATIONS SEE TRAFFIC SIGNAL PLANS.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 845.
3. THE HAND SYMBOL "DON'T WALK" IS PORTLAND ORANGE AND HUMAN SYMBOL "WALK" IS LUNAR WHITE.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		PEDESTRIAN SIGNAL ASSEMBLIES W-0T, W-1, W-2T, W-3T, W-1T						
		DATE 12-12-9	DWG. NO.		8			

NOTE □ TAMPER-PROOF SCREWS TO BE USED.



AGENCY APPROVED	B	C	H	M	N
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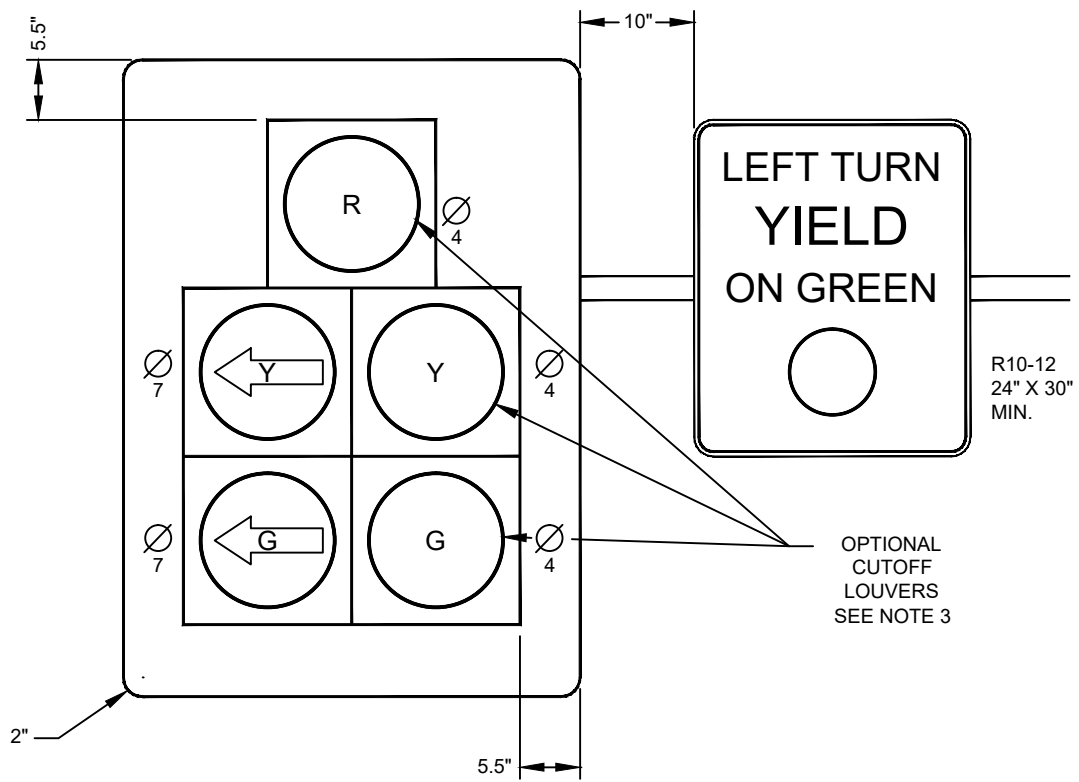
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PEDESTRIAN PUSH BUTTON
SIGN DETAIL

DATE 08-09-18 | DWG. NO. 8□7

Effective 10/08/2020 to 12/09/2020

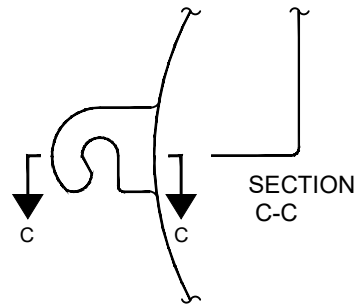
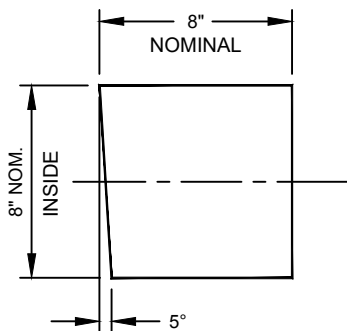
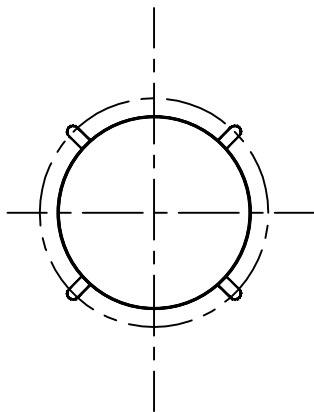


NOTES

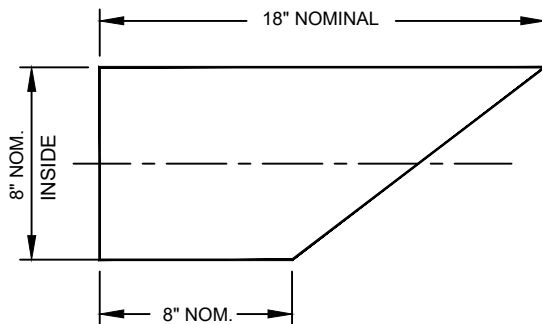
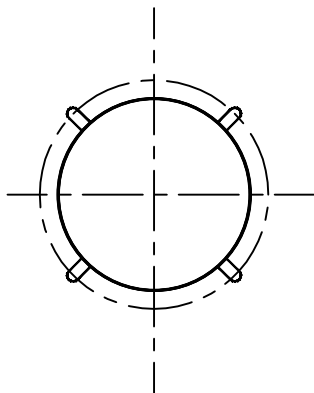
1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3° CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	PROTECTED / PERMISSIVE M-5 SIGNAL HEADS						
	DATE 5-12-94	DWG. NO. 808					

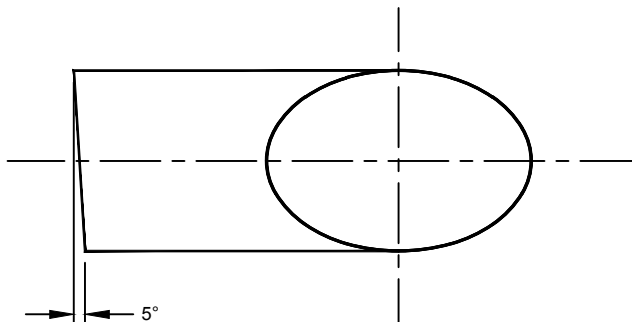


STANDARD FULL CIRCLE VISOR



LEFT ANGLE-SHOWN
RIGHT ANGLE-REVERSE

STANDARD ANGLE VISOR

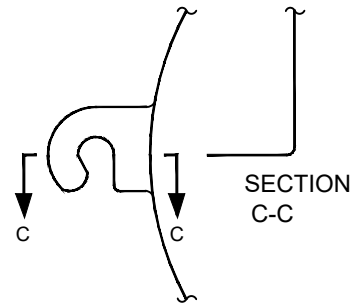
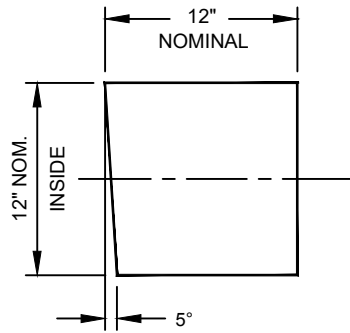
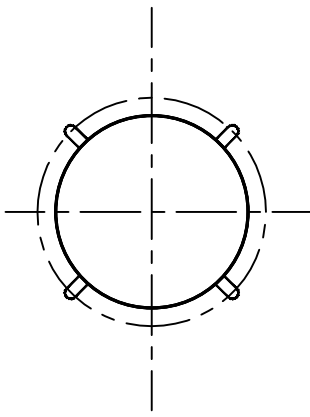


VISORS □FOR 8" HEADS □

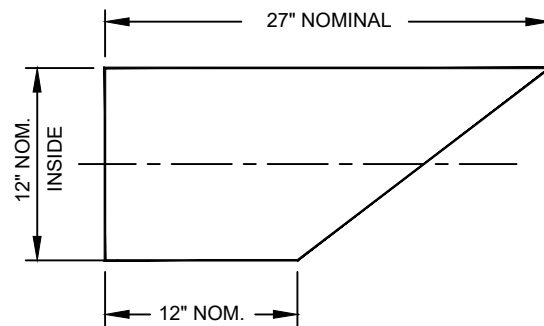
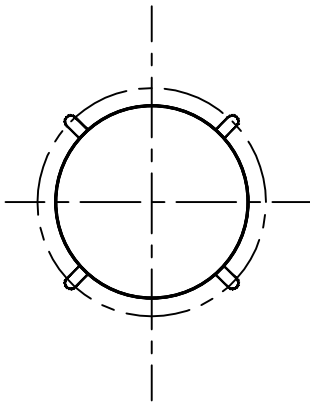
PAINT □FLAT BLACK ON INSIDE,
OUTSIDE PAINT COLOR SHALL
MATCH SIGNAL HOUSING.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		VISORS FOR 8 INCH SIGNALS						
DATE	DWG. NO.	870	SHEET		1 OF 3			

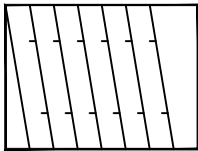


STANDARD FULL CIRCLE VISOR

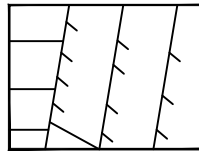


LEFT ANGLE-SHOWN
RIGHT ANGLE-REVERSE

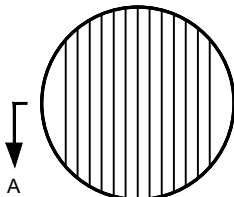
STANDARD ANGLE VISOR



SECTION A-A



SECTION B-B

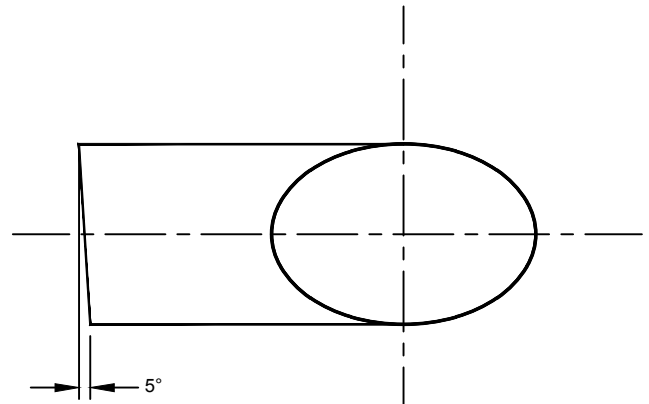


1 VANE
3° CUTOFF



3 VANE
7° CUTOFF

DIRECTIONAL LOUVERS
PAINT □ FLAT BLACK



VISORS □ FOR 12" HEADS □

PAINT □ FLAT BLACK ON INSIDE,
OUTSIDE PAINT COLOR SHALL
MATCH SIGNAL HOUSING.

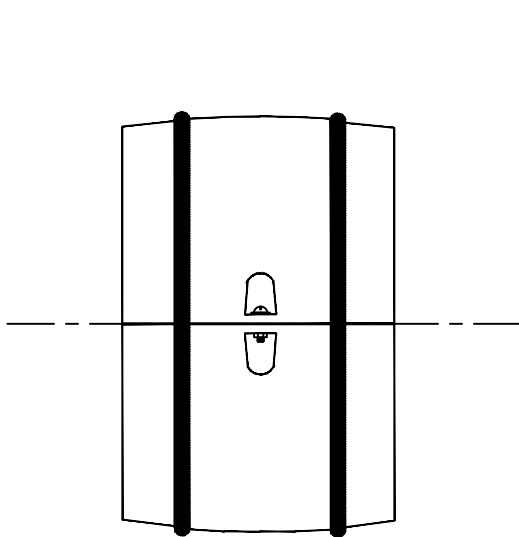
AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

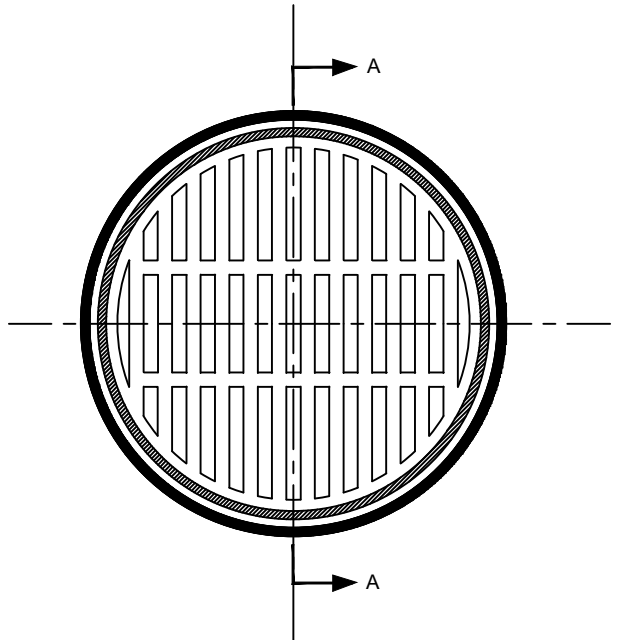
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

LOUVERS AND VISORS
FOR 12 INCH SIGNALS

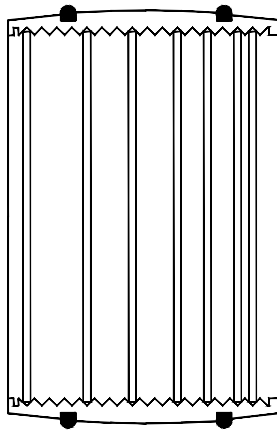
DATE DWG. NO. 870 SHEET 2 OF 3



SIDE VIEW



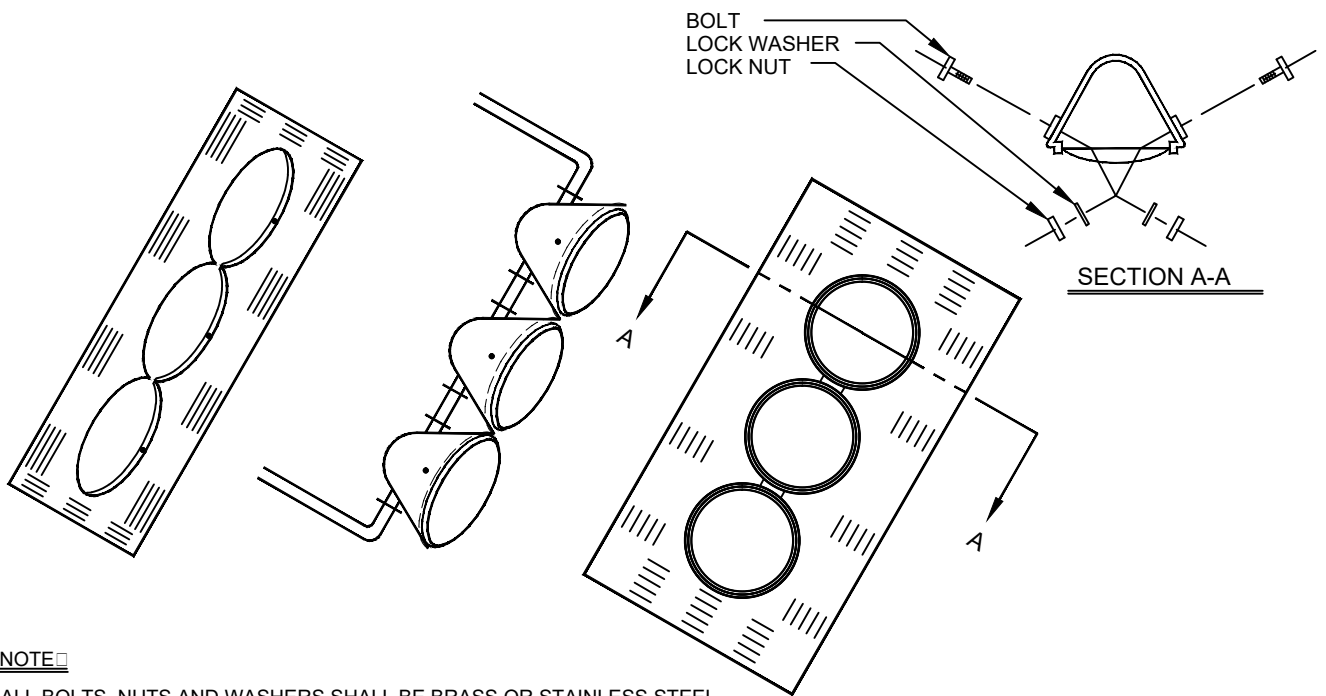
FRONT VIEW



SECTION A-A

Effective 10/08/2020 to 12/09/2020

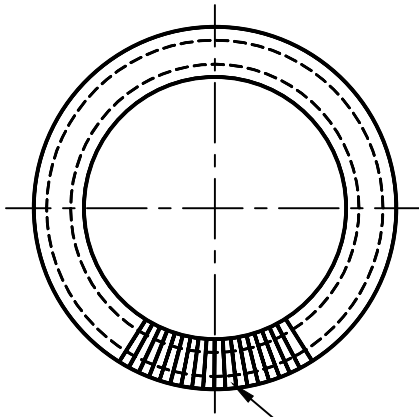
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		GEOMETRICALLY PROGRAMMED LOUVER						
DATE	DWG. NO.	870	SHEET	3 OF 3				



NOTE

ALL BOLTS, NUTS AND WASHERS SHALL BE BRASS OR STAINLESS STEEL.

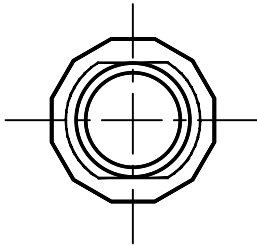
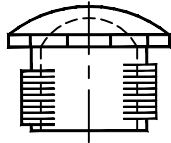
SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		BACKPLATE AND SIGNAL HEAD ASSEMBLY						
		DATE 12-12-9		DWG. NO.		871		



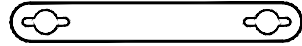
72 TEETH - 1/2" HIGH ALL AROUND



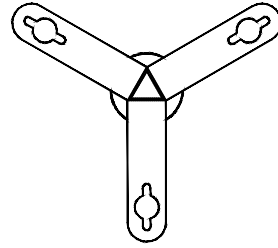
LOCKING RING - 1/2 PIN
MATERIAL □ BRONZE □



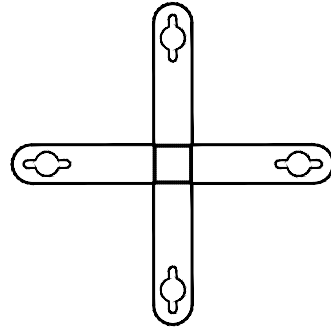
ORNAMENTAL CAP
DIE CAST ALUMINUM
PAINT COLOR SHALL MATCH
SIGNAL HOUSING



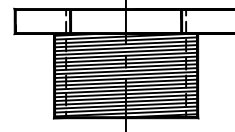
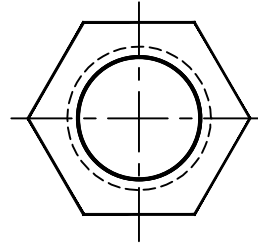
TIE BRACE, FERROUS, 2 WAY
PAINT COLOR SHALL MATCH
SIGNAL HOUSING



TIE BRACE, FERROUS, 3 WAY
PAINT COLOR SHALL MATCH
SIGNAL HOUSING



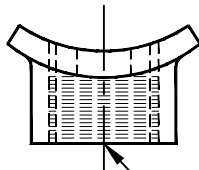
TIE BRACE, FERROUS, 4 WAY
PAINT COLOR SHALL MATCH
SIGNAL HOUSING



LOCKING NIPPLE

Effective 10/08/2020 to 12/09/2020

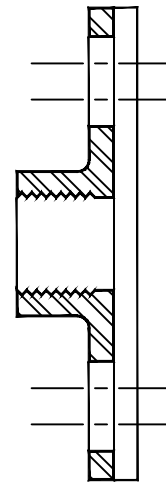
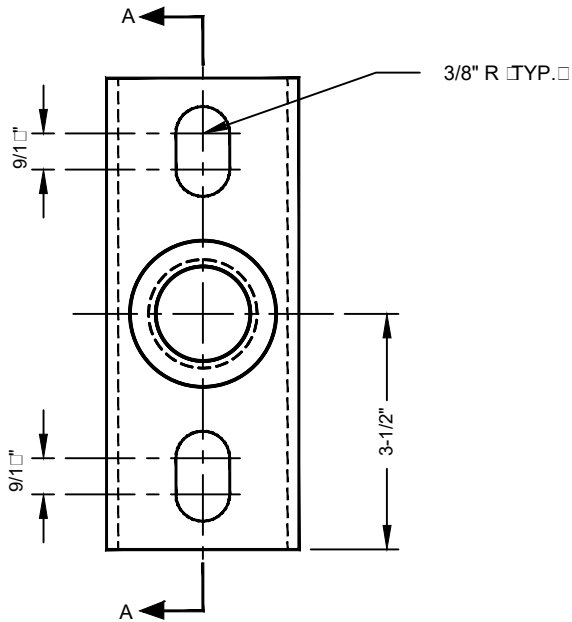
		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		MISCELLANEOUS SIGNAL MOUNTING HARDWARE						
		DATE	DWG. NO. 872			SHEET		1 OF 2



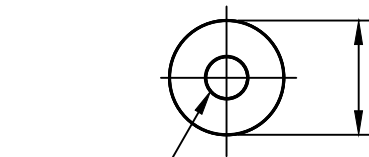
1-1/2" PIPE THREADS

NOTES

1. MATERIAL-BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE WASHERS SHOWN AND 1/2" PLATED BOLTS, LENGTH FOR STEEL POLE MOUNTING.

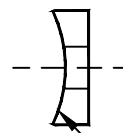


SECTION A-A



5/8" HOLE

CURVED WASHER

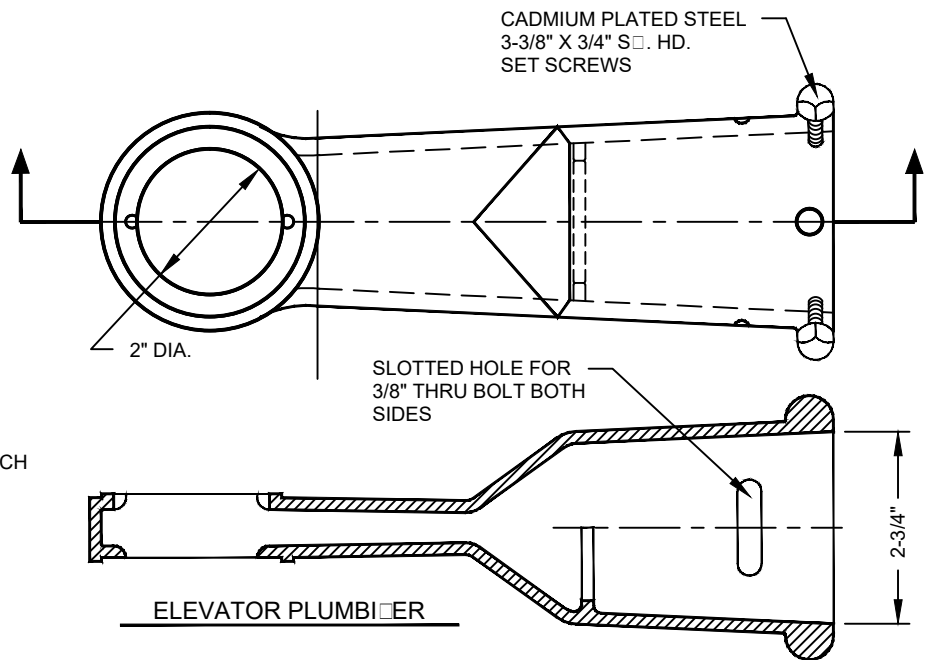


WASHER CURVED TO FIT STANDARD

NOTES DO NOT PROVIDE UNLESS SPECIFIED ON THE PLANS.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		POLE PLATE DETAILS						
DATE	DWG. NO.	873						



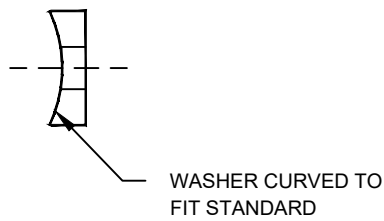
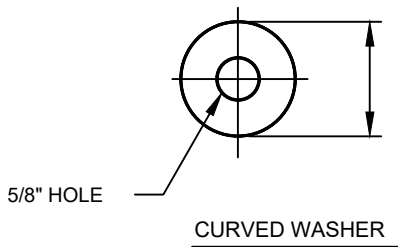
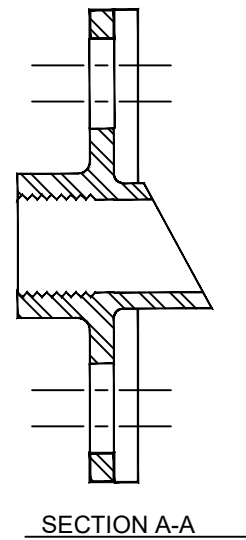
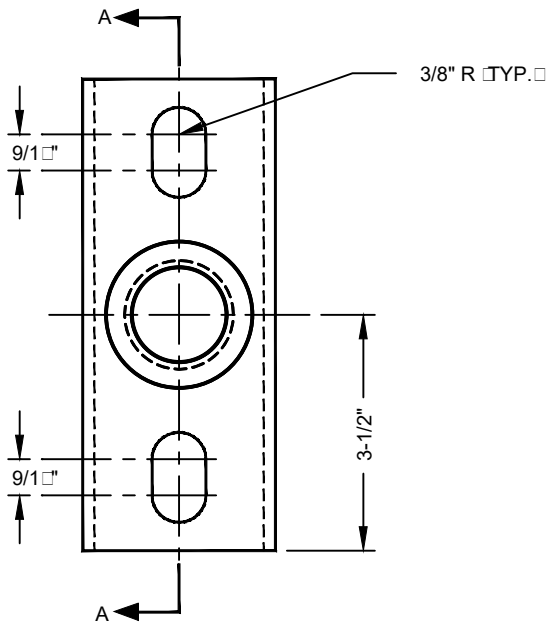
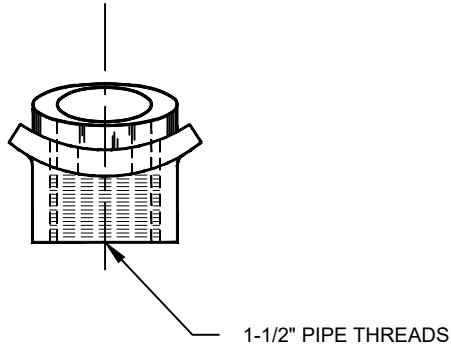
NOTES

1. MATERIAL - BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING

SPECIFICATION REFERENCE		AGENCY APPROVED	B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		ELEVATOR PLUMBIER						
		DATE	DWG. NO.		875			

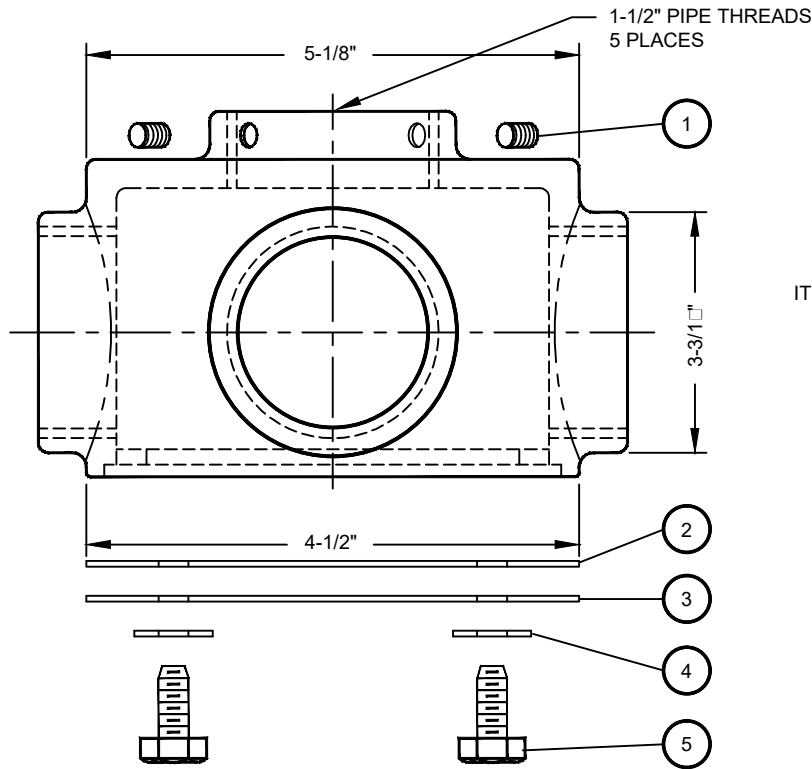
NOTES

1. MATERIAL-BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.
3. PROVIDE WASHERS SHOWN AND 1/2" PLATED BOLTS, LENGTH FOR STEEL POLE MOUNTING.



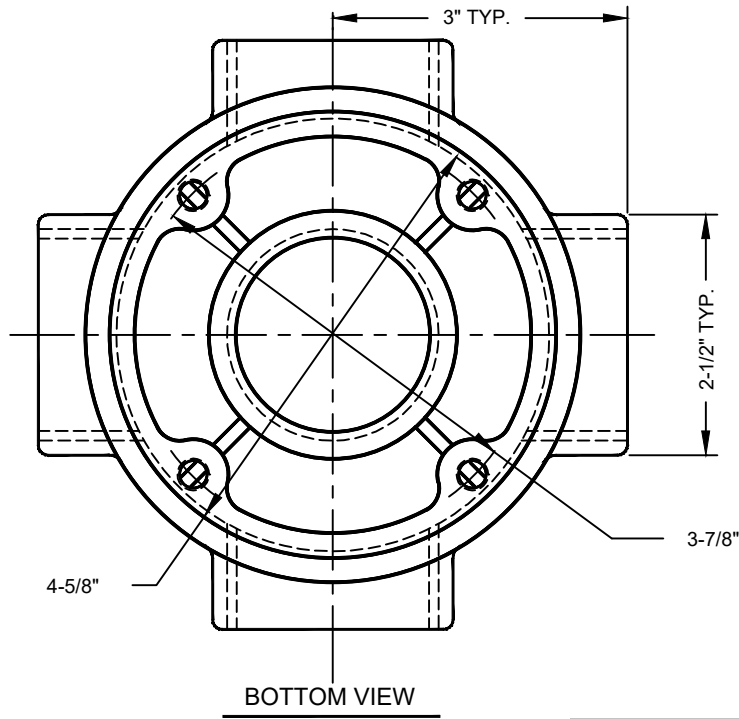
Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	POLE PLATE WITH WIRE GUIDE DETAILS						
DATE	DWG. NO.	87					



LIST OF MATERIALS

ITEM	QTY.	DESCRIPTION
1.	2	1/4" - 20 UNC-2A X 3/8" SOCKET, CUP SET SCREW
2.	1	CORK GASKET TO MATCH COVER
3.	1	3/32" STEEL COVER WITH 2 BOLT HOLES OPPOSITE
4.	2	STANDARD LOCK WASHER
5.	5	3/8" - 1" UNC-2A X 1" BRASS HEX. HD CAP SCREW 2 RE.



NOTES

1. PAINT COLOR AND FINISHING SHALL MATCH SIGNAL HOUSING
2. MATERIAL HIGH STRENGTH CAST ALUMINUM ALLOY

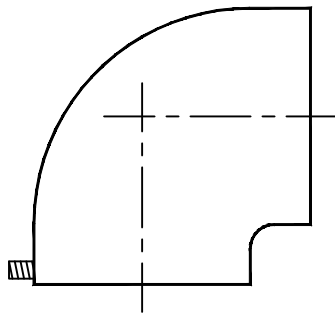
AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE

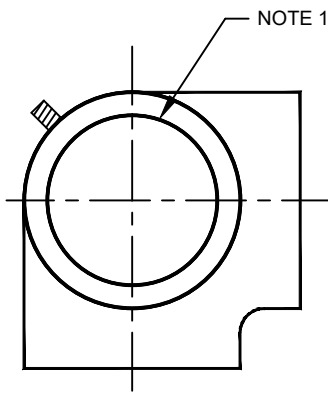
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

4 WAY CENTER HUB

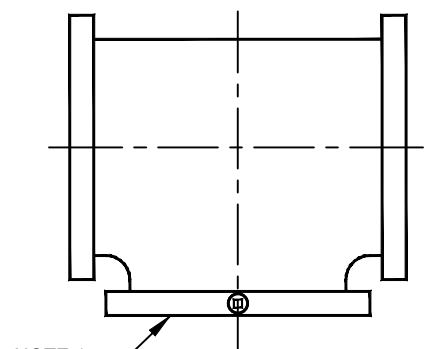
DATE	DWG. NO.	877
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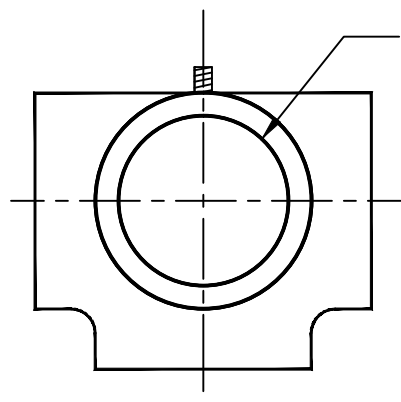
ELBOW



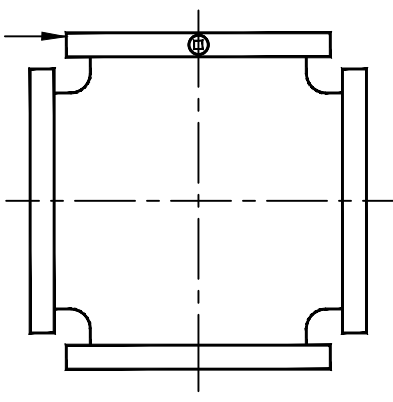
ELBOW WITH SIDE OUTLET



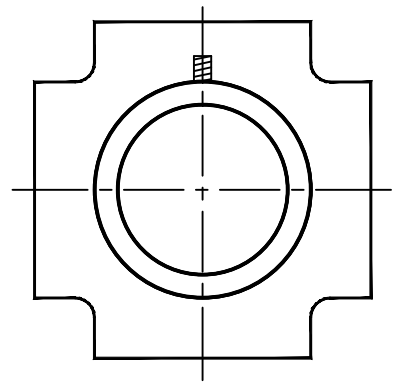
TEE



TEE WITH SIDE OUTLET



CROSS



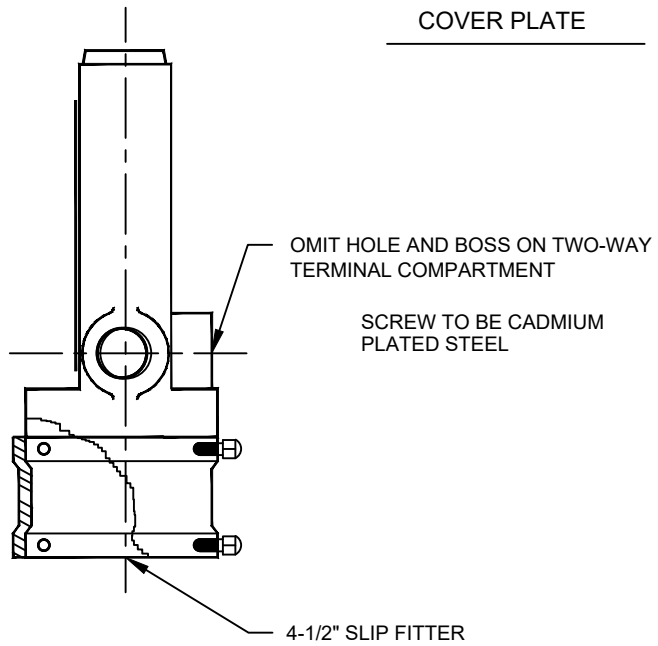
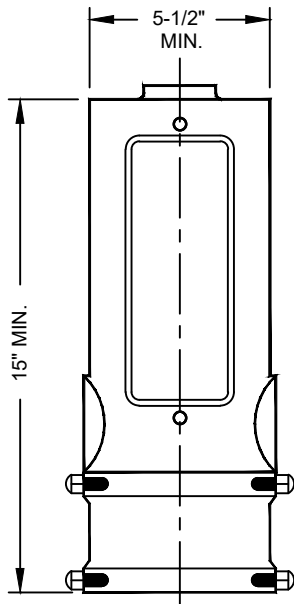
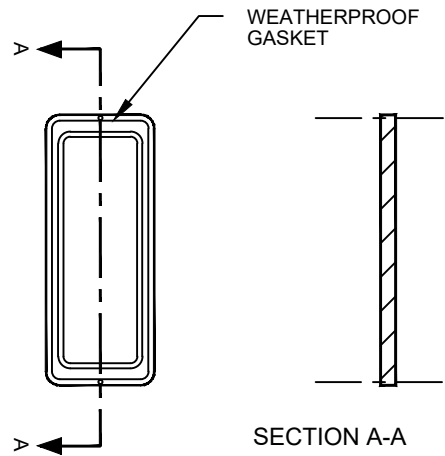
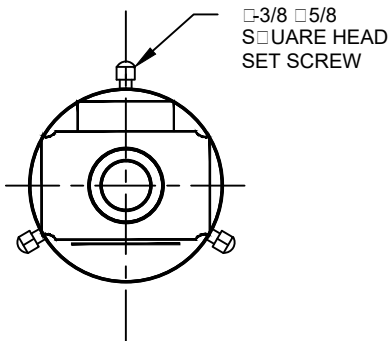
CROSS WITH SIDE OUTLET

NOTES

1. REAM FOR 1-1/2" IPS. PROVIDE SET SCREW.
2. ALL OTHER OPENINGS SHALL BE THREADED.
3. PAINT COLOR SHALL MATCH SIGNAL HOUSING.

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	STANDARD MALLEABLE PIPE HARDWARE- 1-1/2 INCH IPS						
	DATE	DWG. NO.	878				

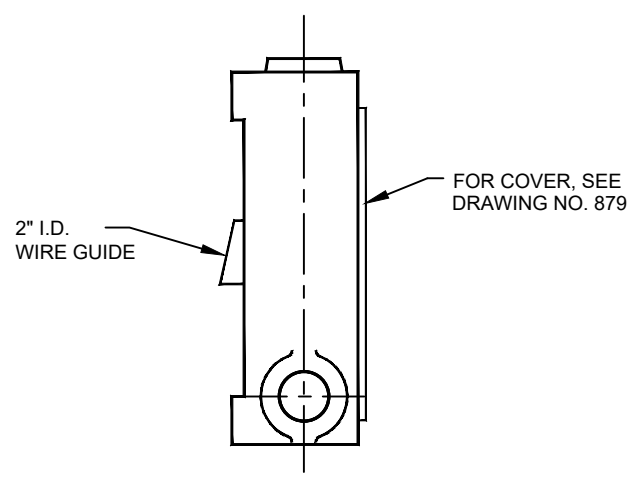
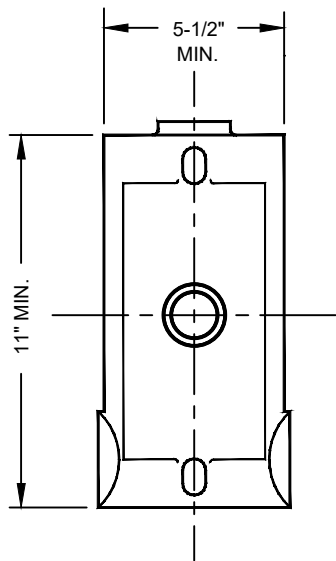
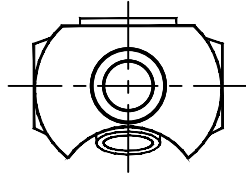


NOTES

1. MATERIAL - ALUMINUM
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE 12 POSITION PRESSURE TYPE TERMINAL BLOCK MOUNTED INSIDE COMPARTMENT

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		POST TOP MOUNTED ADAPTER WITH TERMINAL COMPARTMENT						
		DATE	DWG. NO.		879			



NOTES □

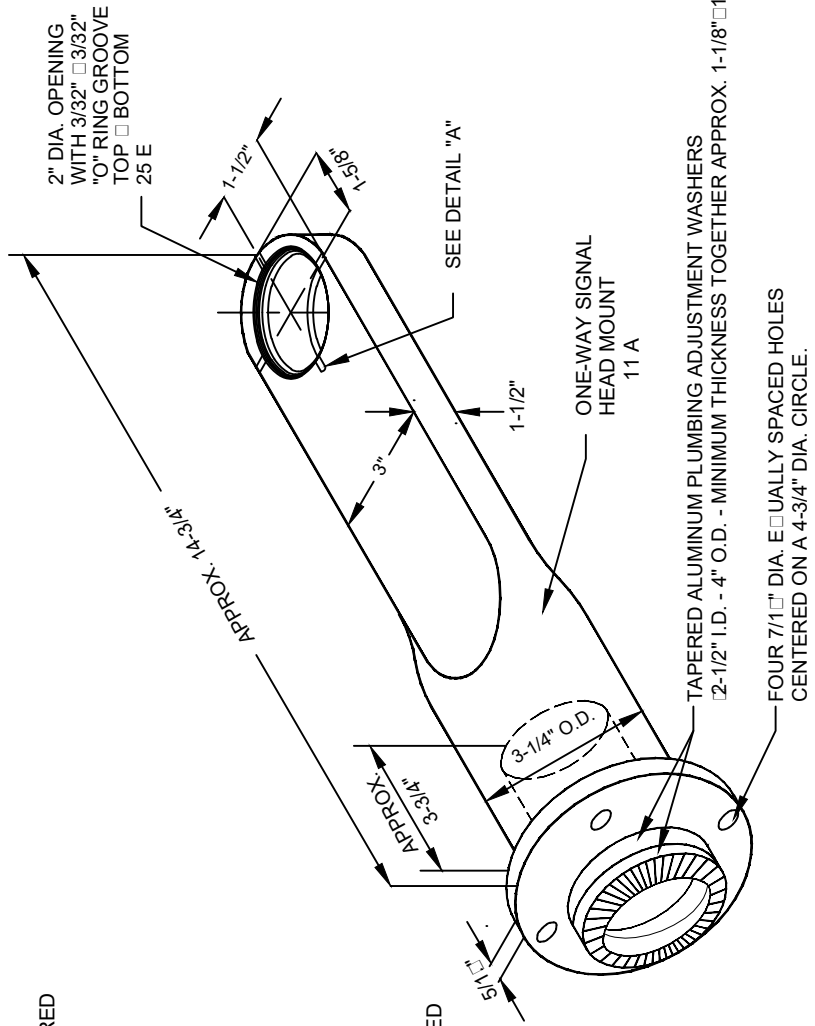
1. MATERIAL - ALUMINUM
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE 12 POSITION PRESSURE TYPE TERMINAL BLOCK MOUNTED INSIDE COMPARTMENT

Effective 10/08/2020 to 12/09/2020

	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	SIDE BRACKET MOUNTED ADAPTER WITH WIRE GUIDE						
	DATE	DWG. NO.		880			

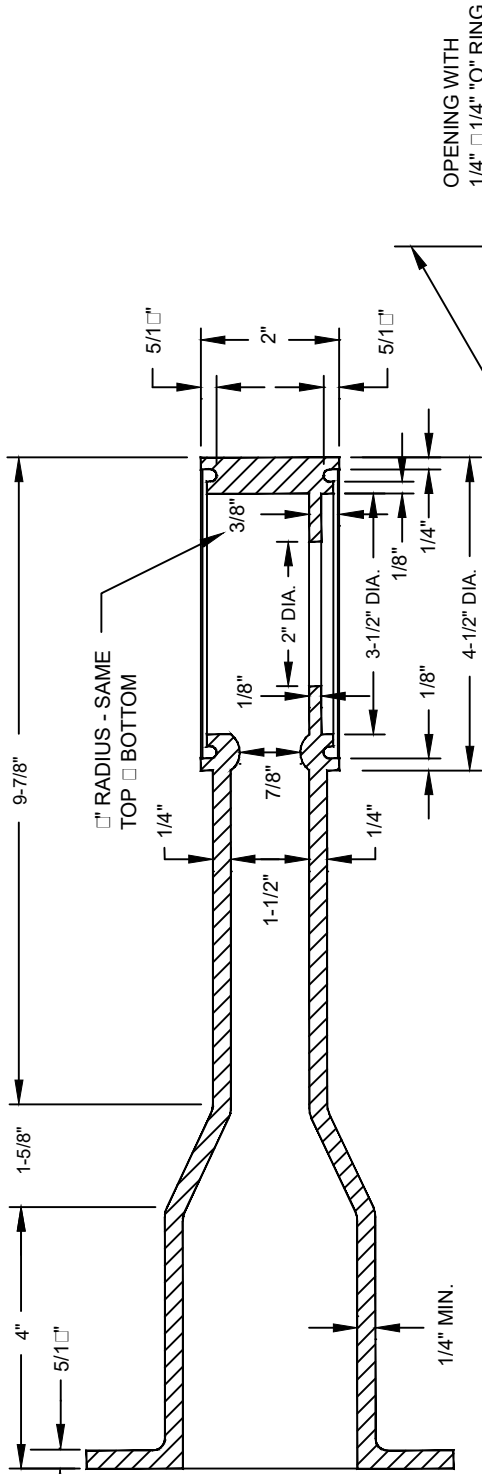
NOTES

1. THE DEVICES WILL BE CONSTRUCTED OR CAST IN ACCORDANCE WITH SPECIAL PATENTED DEVICES, MATERIALS, AND PROCESSES.
2. SIGNAL HEAD MOUNT AND FLANGE ADAPTER WILL BE OF HIGH STRENGTH CAST ALUMINUM.
3. SIGNAL HEAD MOUNT SHALL BE FASTENED TO FLANGE ADAPTER BY MEANS OF FOUR COMMON STRUCTURAL STEEL BOLTS PER SPEC. EACH WITH TWO FLAT WASHERS, LOCK WASHER AND NUT.
4. ALL BOLTS, NUTS, AND WASHERS REQUIRED SHALL BE AS REGULARLY SUPPLIED BY THE MANUFACTURER.
5. ONE-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR ONE-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.
6. TWO-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR TWO-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.
7. TWO SIGNAL INDICATIONS SHALL BE MOUNTED BELOW THE MOUNT AND ALL REMAINING SIGNAL INDICATIONS MOUNTED ABOVE.



ONE-WAY MOUNT
32 A

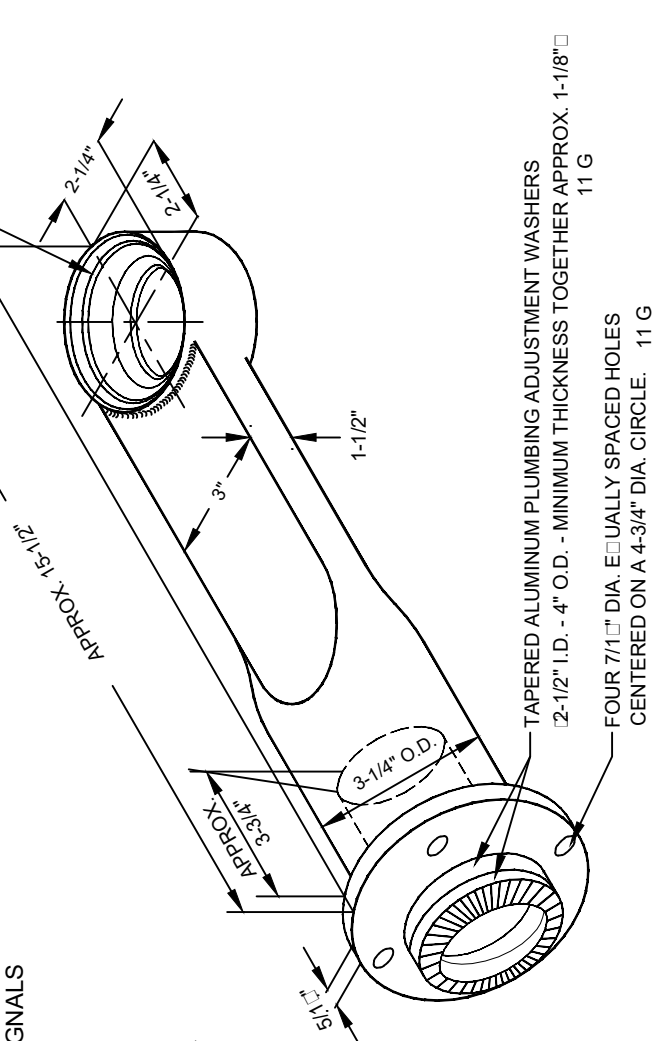
SPECIFICATION REFERENCE		AGENCY APPROVED						B	C	H	L	M	N
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA											
		ONE WAY MOUNT											
DATE	DWG. NO.	881											



SECTION THROUGH ONE-WAY MOUNT FOR 3M SIGNALS

NOTES

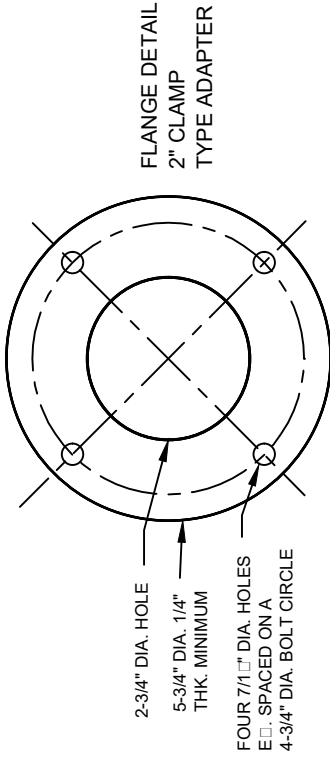
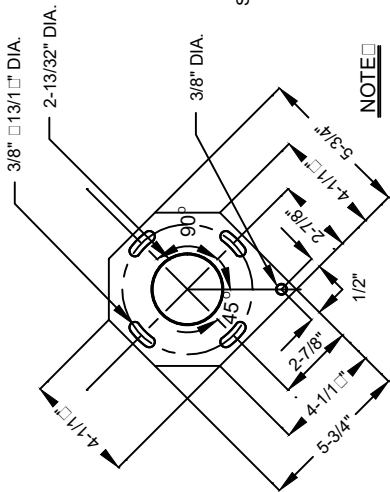
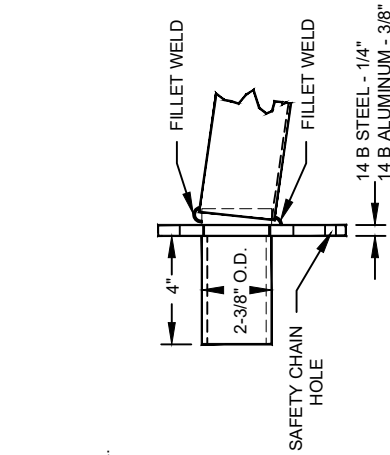
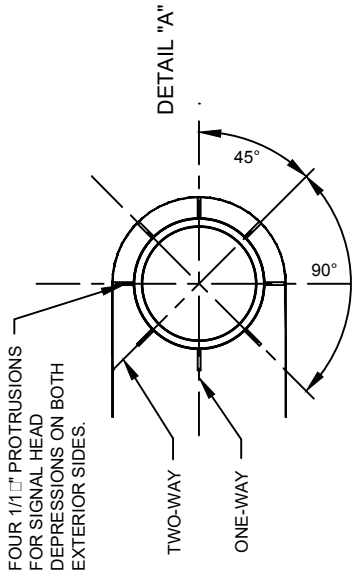
1. THE DEVICES WILL BE CONSTRUCTED OR CAST IN ACCORDANCE WITH SPECIAL PATENTED DEVICES, MATERIALS, AND PROCESSES.
2. SIGNAL HEAD MOUNT AND FLANGE ADAPTER WILL BE OF HIGH STRENGTH CAST ALUMINUM.
3. SIGNAL HEAD MOUNT SHALL BE FASTENED TO FLANGE ADAPTER BY MEANS OF FOUR COMMON STRUCTURAL STEEL BOLTS PER SPEC. EACH WITH TWO FLAT WASHERS, LOCK WASHER AND NUT.
4. ALL BOLTS, NUTS, AND WASHERS REQUIRED SHALL BE AS REGULARLY SUPPLIED BY THE MANUFACTURER.
5. ONE-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR ONE-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.
6. TWO-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR TWO-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.
7. TWO SIGNAL INDICATIONS SHALL BE MOUNTED BELOW THE MOUNT AND ALL REMAINING SIGNAL INDICATIONS MOUNTED ABOVE.



ONE-WAY MOUNT FOR 3M SIGNALS

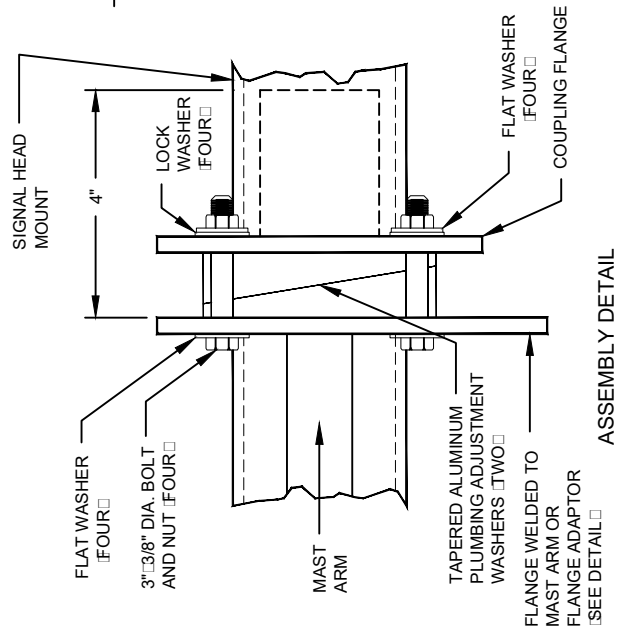
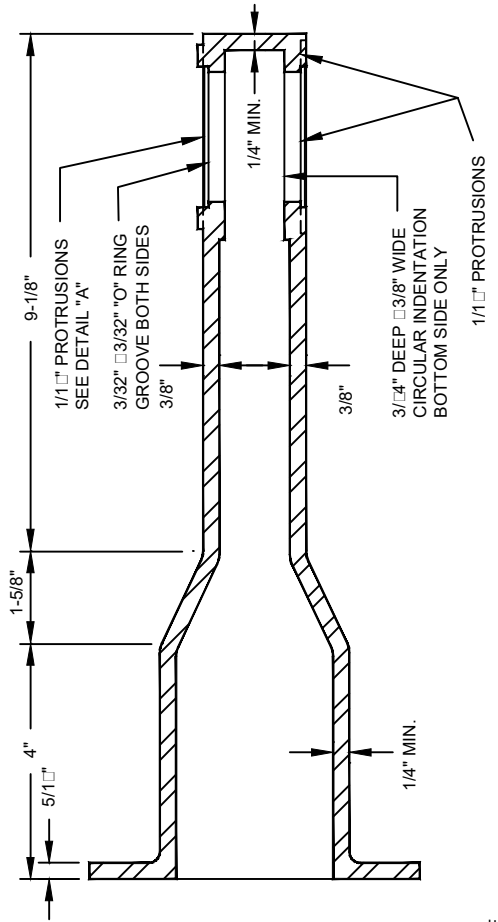
32 H

SPECIFICATION REFERENCE		AGENCY APPROVED						
		B	C	H	L	M	N	
		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		ONE WAY MOUNT FOR 3M SIGNALS						
DATE	DWG. NO.	882						



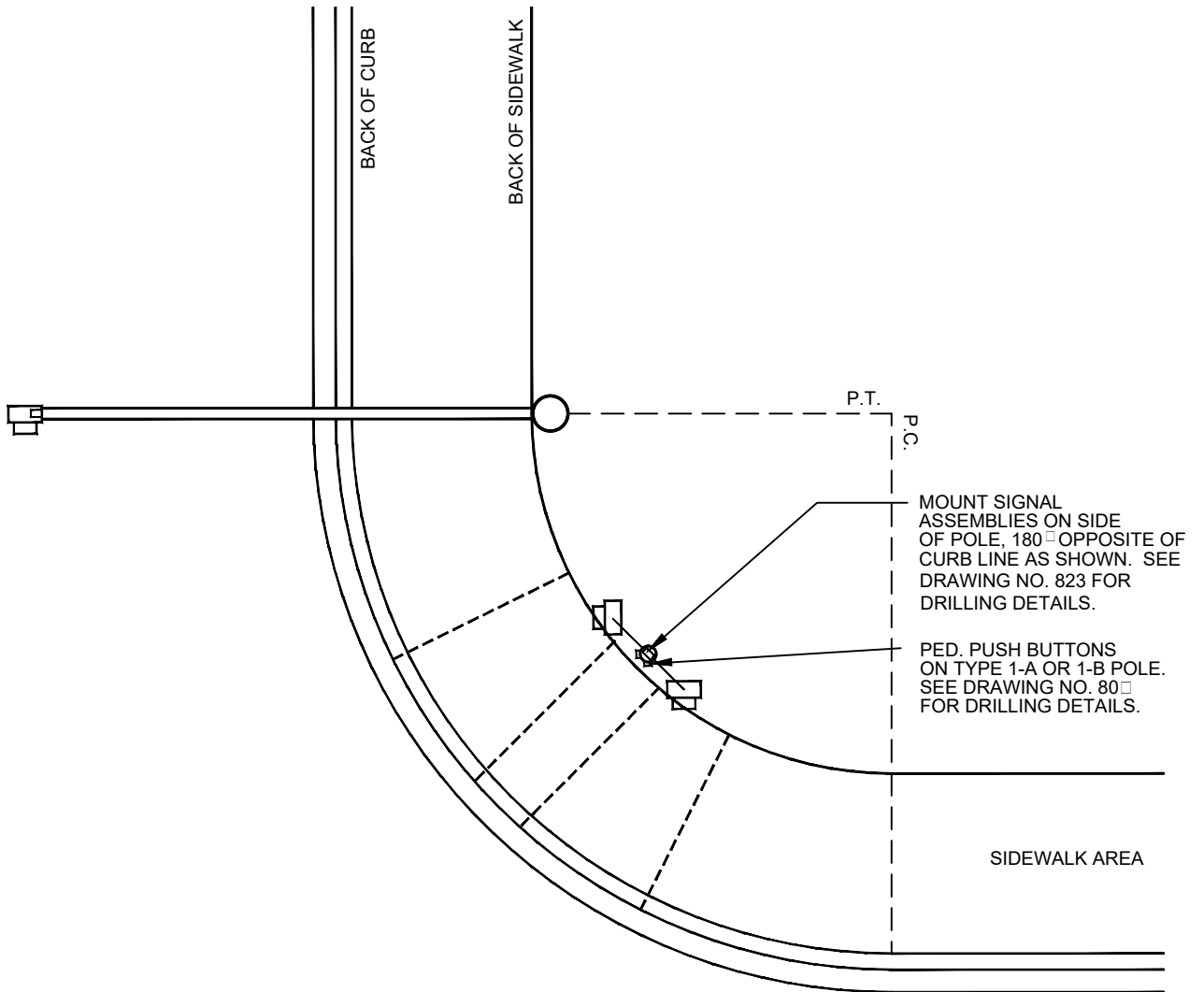
NOTE: FLANGE TO BE WELDED TO MAST ARM SLIPFITTER 4" FROM THE END.

FLANGE DETAIL
2" WELDED TYPE ADAPTER



SPECIFICATION REFERENCE	

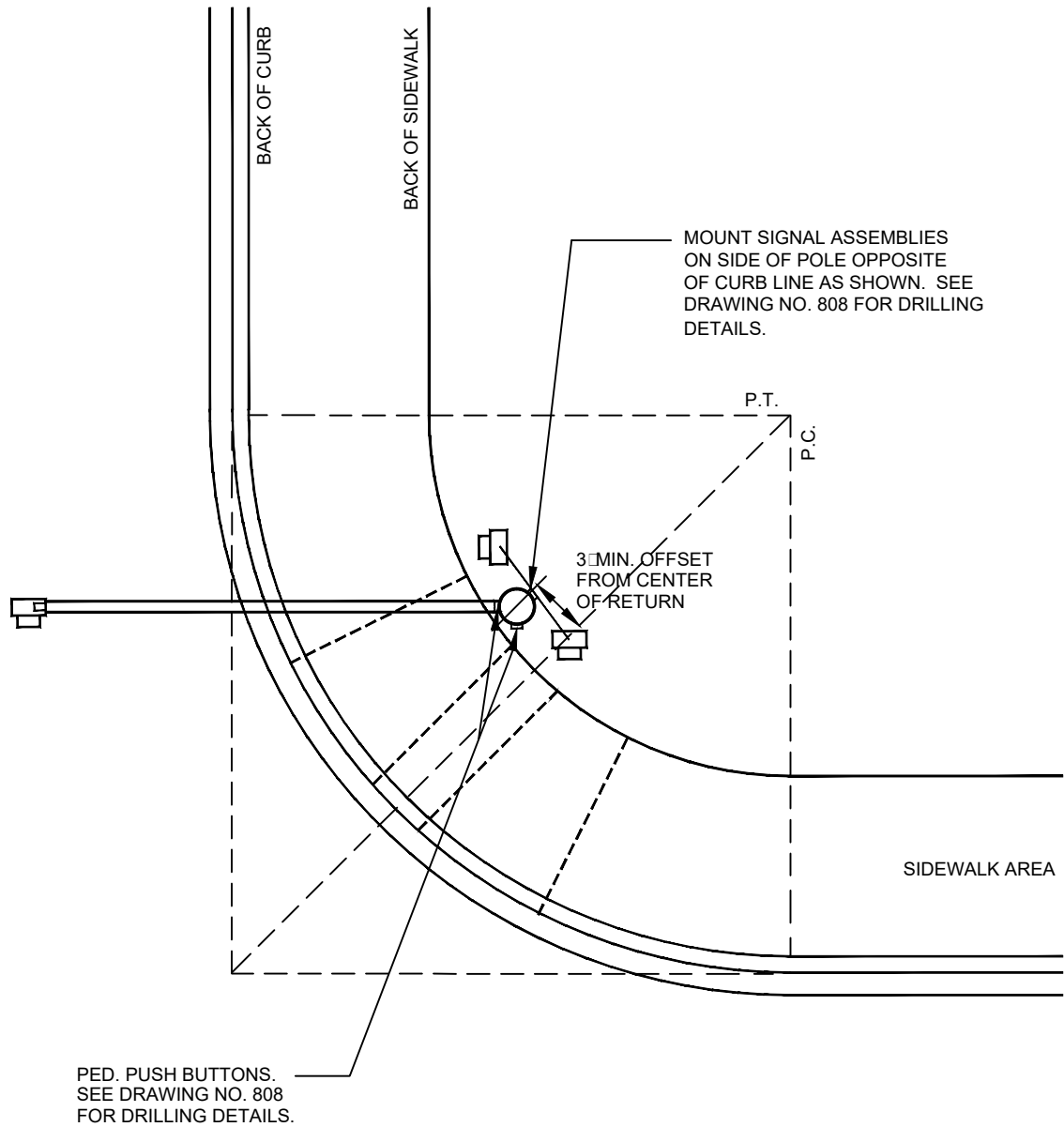
AGENCY APPROVED	B	C	H	L	M	N
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
ONE WAY MOUNT DETAIL						
DATE	DWG. NO.	883				



NOTE

1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		POLE LOCATION □ SIGNAL MOUNTING AT INTERSECTION □ TWO POLE □ CURBSIDE SIDEWALK						
		DATE 7-10-03	DWG. NO.	885	SHEET	1 OF 2		

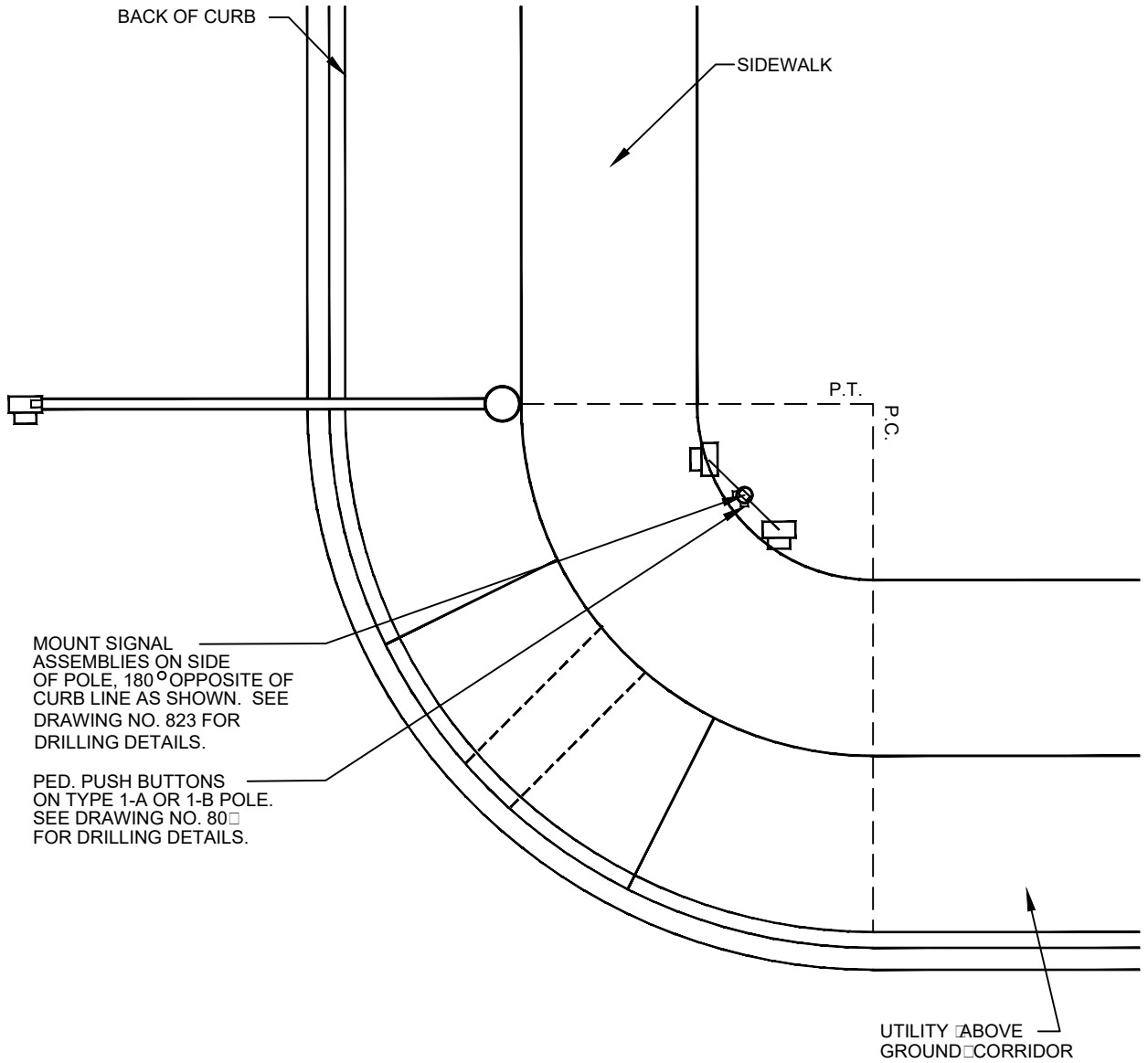


NOTE

1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		POLE LOCATION <input type="checkbox"/> SIGNAL MOUNTING AT INTERSECTION <input type="checkbox"/> SINGLE POLE <input type="checkbox"/> CURBSIDE SIDEWALK						
		DATE 7-10-03	DWG. NO.	885	SHEET	2 OF 2		

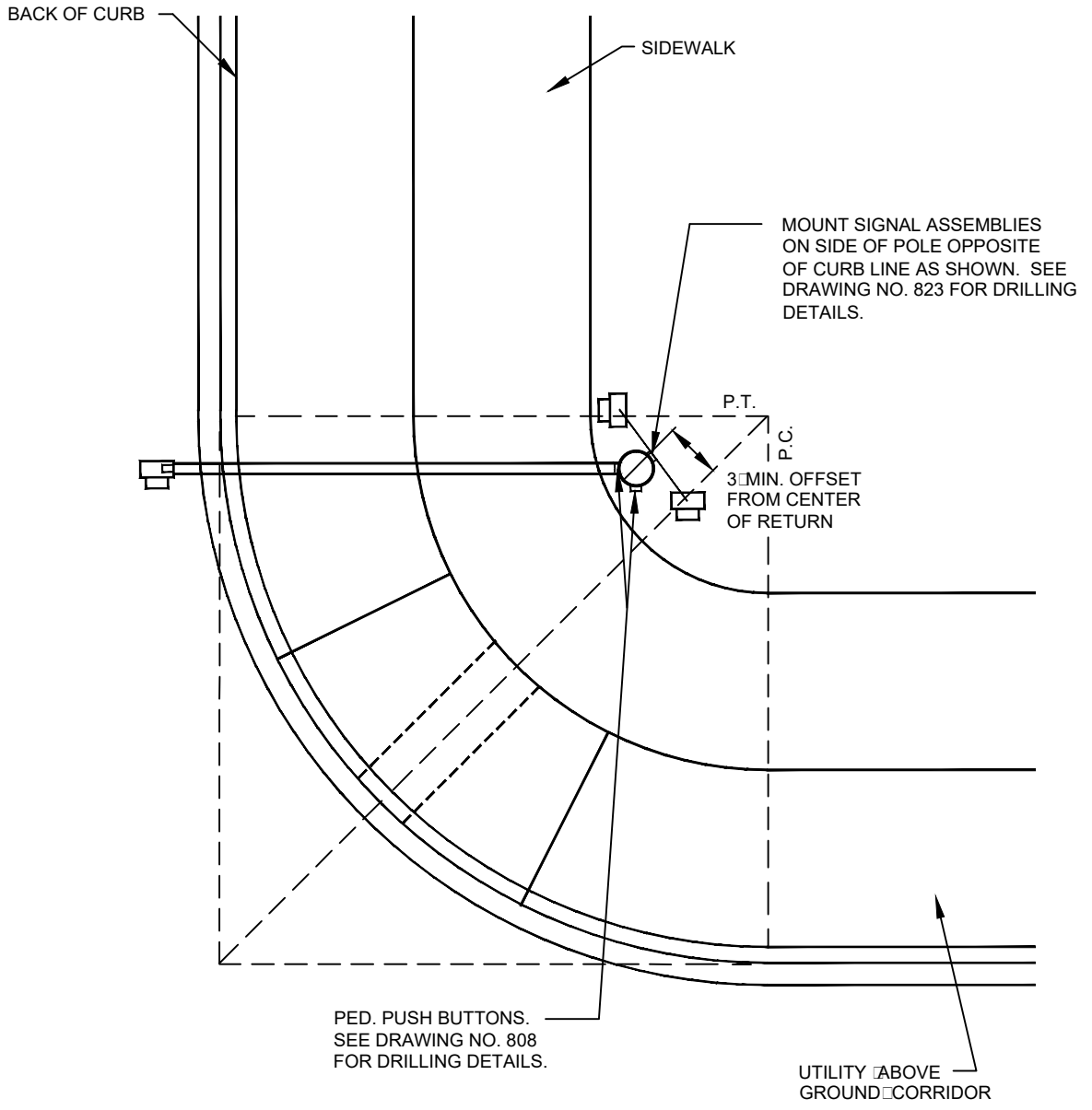
Effective 10/08/2020 to 12/09/2020



NOTE

1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		POLE LOCATION <input type="checkbox"/> SIGNAL MOUNTING AT INTERSECTION <input type="checkbox"/> TWO POLE <input type="checkbox"/> OFFSET SIDEWALK						
		DATE 7-10-03	DWG. NO. 88		SHEET		1 OF 2	

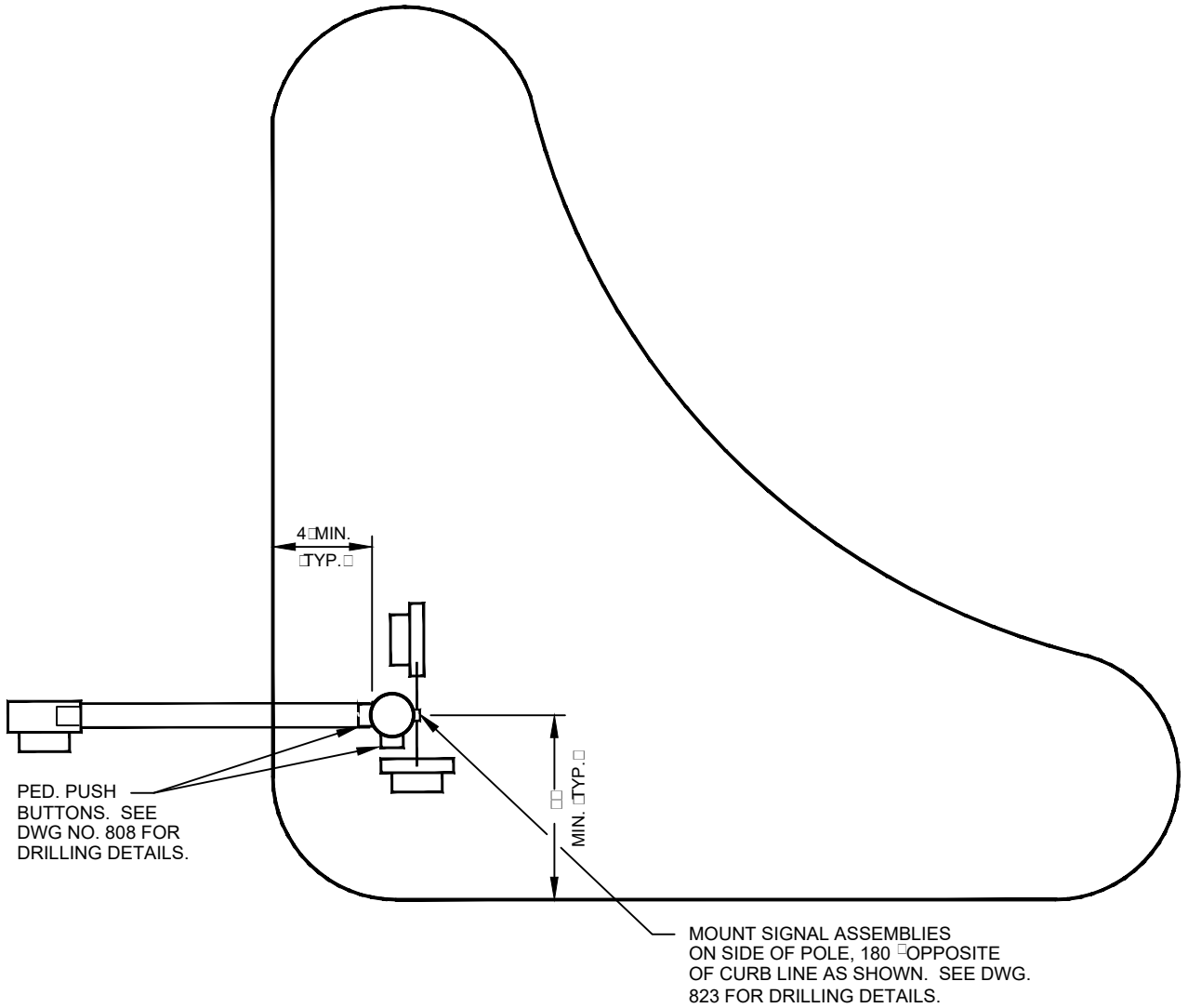


NOTE

1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		POLE LOCATION <input type="checkbox"/> SIGNAL MOUNTING AT INTERSECTION <input type="checkbox"/> SINGLE POLE <input type="checkbox"/> OFFSET SIDEWALK						
		DATE 7-10-03	DWG. NO. 88			SHEET		2 OF 2

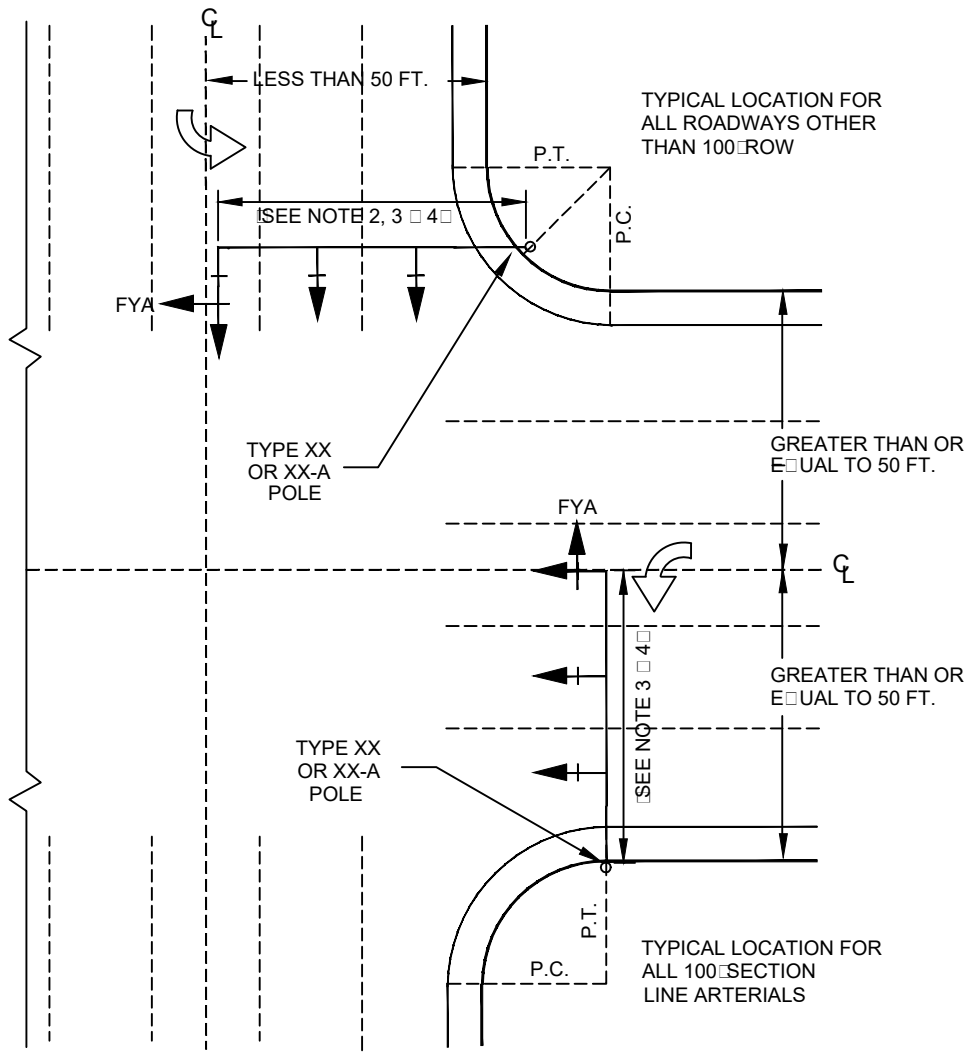


NOTE

SIDEWALK RAMPS IN ACCORDANCE WITH DRAWING NO. 235 SHALL BE CONSTRUCTED. HANDICAPPED ACCESS MUST BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA)

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		POLE LOCATION AND SIGNALS MOUNTING ON RIGHT TURN ISLANDS						
		DATE 12-12-9	DWG. NO.		887			

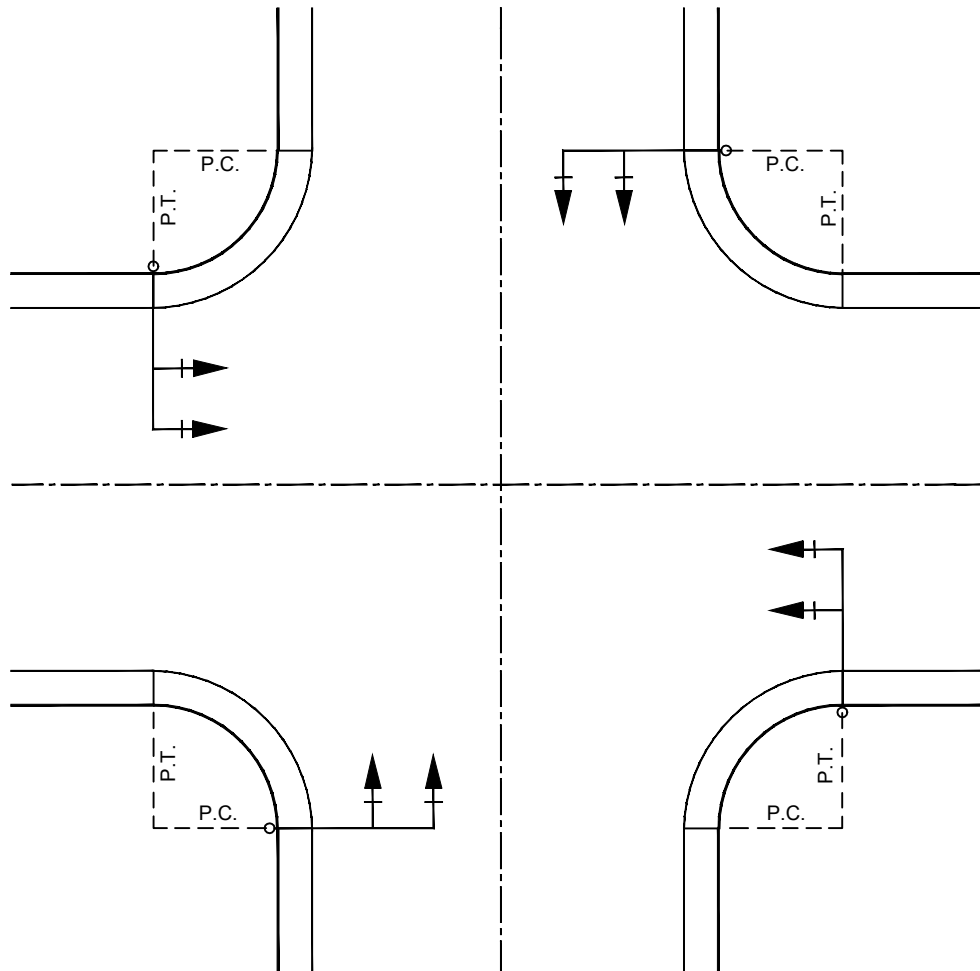


NOTES

1. THE AREA SHALL REMAIN ACCESSIBLE FOR THESE FOUNDATIONS.
 2. TRAFFIC SIGNAL POLES SHALL REMAIN AT THE MIDDLE OF THE RETURN BEHIND THE SIDEWALK SO THAT THE OUTSIDE SIGNAL HEAD IS DIRECTLY ABOVE THE LEFT TURN LANE.
 3. A TYPE "H" OR "L" FOUNDATION IS REQUIRED FOR MAST ARMS 45' OR LESS. SEE DRAWING NO. 721.
 4. A TYPE "L" FOUNDATION IS REQUIRED FOR MAST ARMS LONGER THAN 45'. SEE DRAWING NO. 722.
 5. A MINIMUM OF 48" SHALL BE MAINTAINED BETWEEN TRAFFIC SIGNAL POLE FOUNDATION "CRASH CAP" AND THE BACK OF THE CURB FOR WHEELCHAIR CLEARANCE.
- THE TRAFFIC ENGINEER WILL MAKE THE FINAL DETERMINATION FOR THE LOCATION OF TRAFFIC SIGNAL POLES.

Effective 10/08/2020 to 12/09/2020

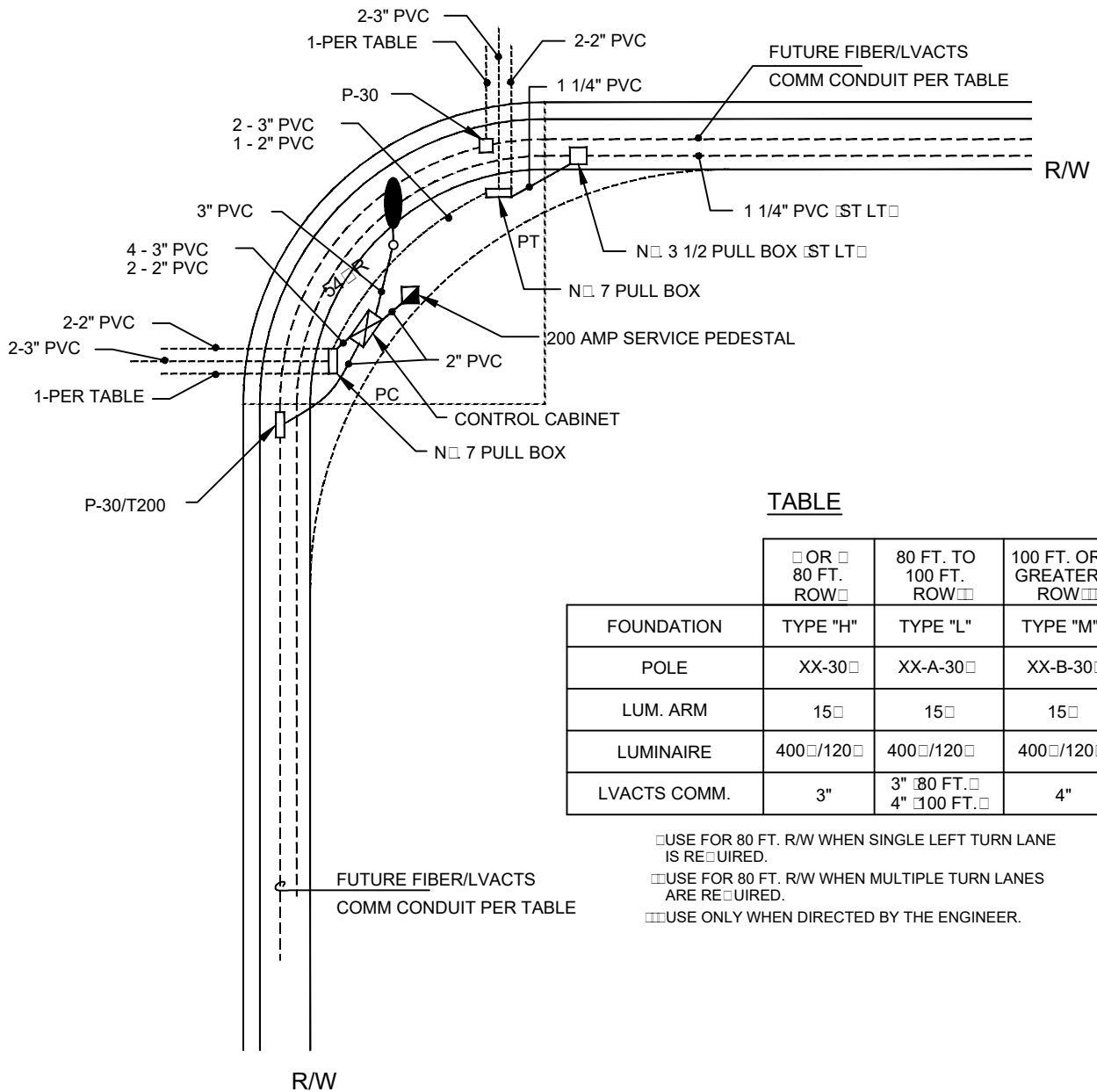
	AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
	FUTURE POLE LOCATION CASE II						
	DATE 07-01-14	DWG. NO.	888.1				



NOTE □

1. SEE PLANS FOR FOUNDATION TYPE.

		AGENCY APPROVED	B	C	H		M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		SUPPLEMENTAL DRAWING						
		FUTURE POLE LOCATION CASE I						
		DATE 12-12-9 □	DWG. NO.		888.S1			



TABLE

	□ OR □ 80 FT. ROW □	80 FT. TO 100 FT. ROW □	100 FT. OR GREATER ROW □ □
FOUNDATION	TYPE "H" □	TYPE "L" □	TYPE "M" □
POLE	XX-30 □	XX-A-30 □	XX-B-30 □
LUM. ARM	15 □	15 □	15 □
LUMINAIRE	400 □ / 120 □	400 □ / 120 □	400 □ / 120 □
LVACTS COMM.	3" □	3" □ 80 FT. □ 4" □ 100 FT. □	4" □

- USE FOR 80 FT. R/W WHEN SINGLE LEFT TURN LANE IS REQUIRED.
- USE FOR 80 FT. R/W WHEN MULTIPLE TURN LANES ARE REQUIRED.
- USE ONLY WHEN DIRECTED BY THE ENGINEER.

NOTES

1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A.123.
2. ELECTRIC UTILITY TO SHOW FEEDER TO SERVICE PEDESTAL.
3. FOR POLE, POLE FOUNDATION, SERVICE PEDESTAL AND SERVICE PEDESTAL FOUNDATION DETAILS, SEE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS.
4. EXTEND THE 2-2" PVC, THE 2-3" AND THE 1-PER TABLE PVC SCHEDULE 40, 5 FEET PAST EDGE OF PAVEMENT STUB AND CAP OR CONNECT TO THE EXISTING TRAFFIC SIGNAL CONDUIT.
5. ALL EMPTY CONDUIT WILL CONTAIN A SINGLE N 8 AWG THW OR BARE COPPER WIRE FOR THE PURPOSE OF LOCATING THE CONDUIT.

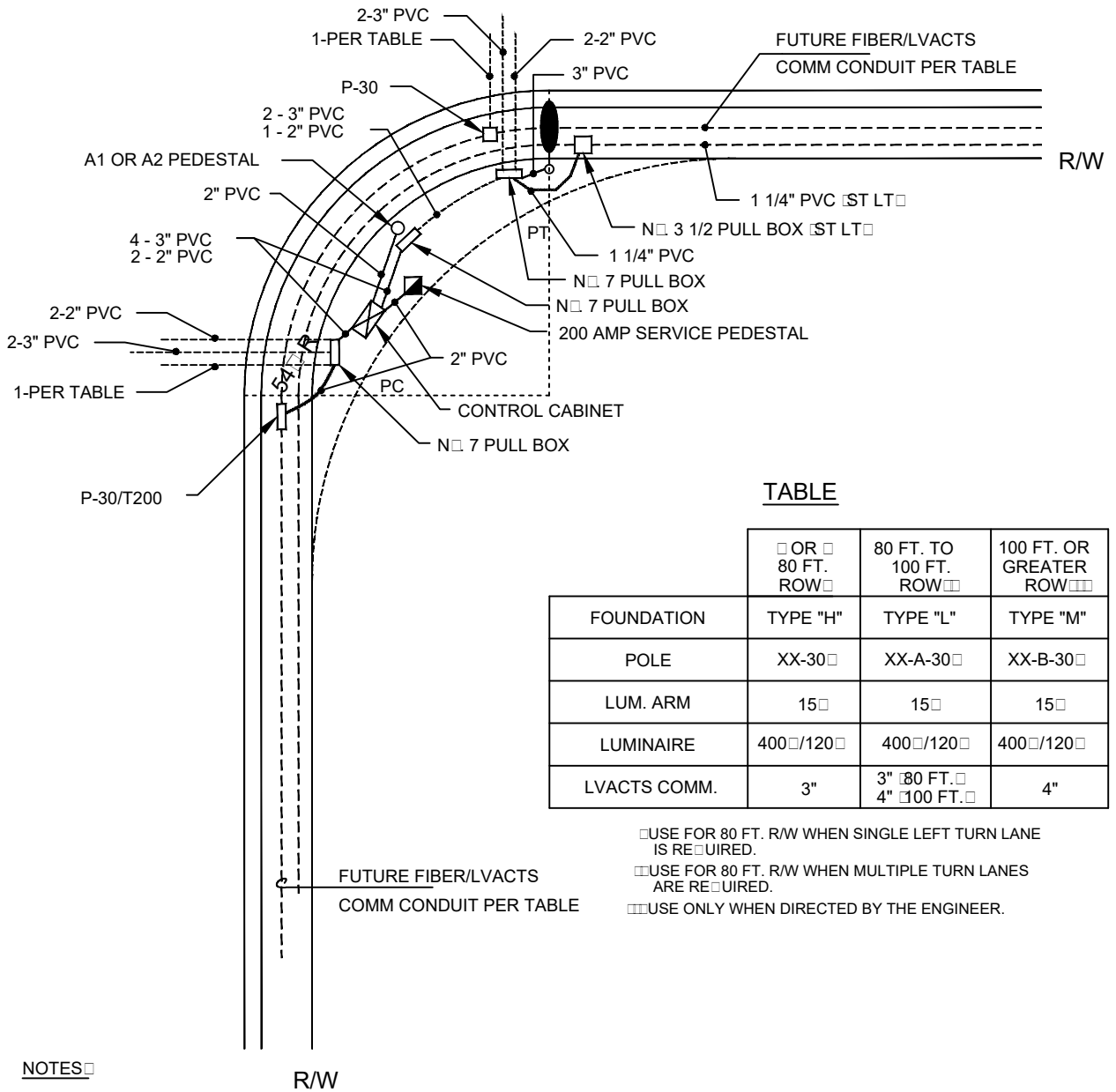
PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

AGENCY APPROVED	B	C	H	L	M	N
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SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
TYPICAL TRAFFIC SIGNAL UNDERGROUND LAYOUT WITH INTERIM STREET LIGHTING AND SERVICE PEDESTAL □ CENTER OF CURVE RADIUS □	
DATE 3-13-03	DWG. NO. 889
SHEET 1 OF 2	

Effective 10/08/2020 to 12/09/2020



TABLE

	OR 80 FT. ROW	80 FT. TO 100 FT. ROW	100 FT. OR GREATER ROW
FOUNDATION	TYPE "H"	TYPE "L"	TYPE "M"
POLE	XX-30	XX-A-30	XX-B-30
LUM. ARM	15	15	15
LUMINAIRE	400/120	400/120	400/120
LVACTS COMM.	3"	3" 80 FT. 4" 100 FT.	4"

- ☐ USE FOR 80 FT. R/W WHEN SINGLE LEFT TURN LANE IS REQUIRED.
- ☐ USE FOR 80 FT. R/W WHEN MULTIPLE TURN LANES ARE REQUIRED.
- ☐☐ USE ONLY WHEN DIRECTED BY THE ENGINEER.

NOTES

1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A.123.
2. ELECTRIC UTILITY TO SHOW FEEDER TO SERVICE PEDESTAL.
3. FOR POLE, POLE FOUNDATION, SERVICE PEDESTAL AND SERVICE PEDESTAL FOUNDATION DETAILS, SEE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS.
4. EXTEND THE 2-2" PVC, THE 2-3" AND THE 1-PER TABLE PVC SCHEDULE 40, 5 FEET PAST EDGE OF PAVEMENT STUB AND CAP OR CONNECT TO THE EXISTING TRAFFIC SIGNAL CONDUIT.
5. ALL EMPTY CONDUIT WILL CONTAIN A SINGLE N 8 AWG THW OR BARE COPPER WIRE FOR THE PURPOSE OF LOCATING THE CONDUIT.

PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE

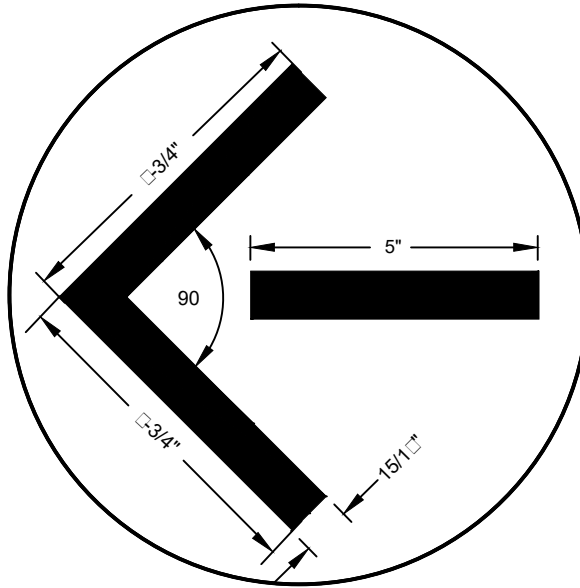
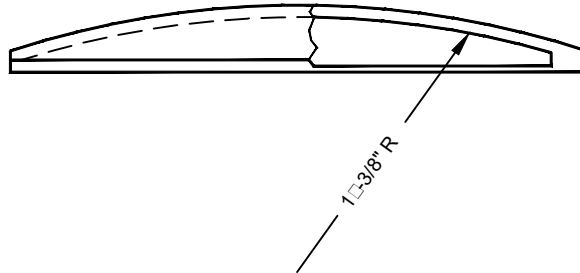
AGENCY APPROVED B C H L M N

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPICAL TRAFFIC SIGNAL UNDERGROUND
LAYOUT WITH INTERIM STREET LIGHTING
AND SERVICE PEDESTAL
END OF CURVE RADIUS

DATE 3-13-03 DWG. NO. 889 SHEET 2 OF 2



SPECIFICATIONS

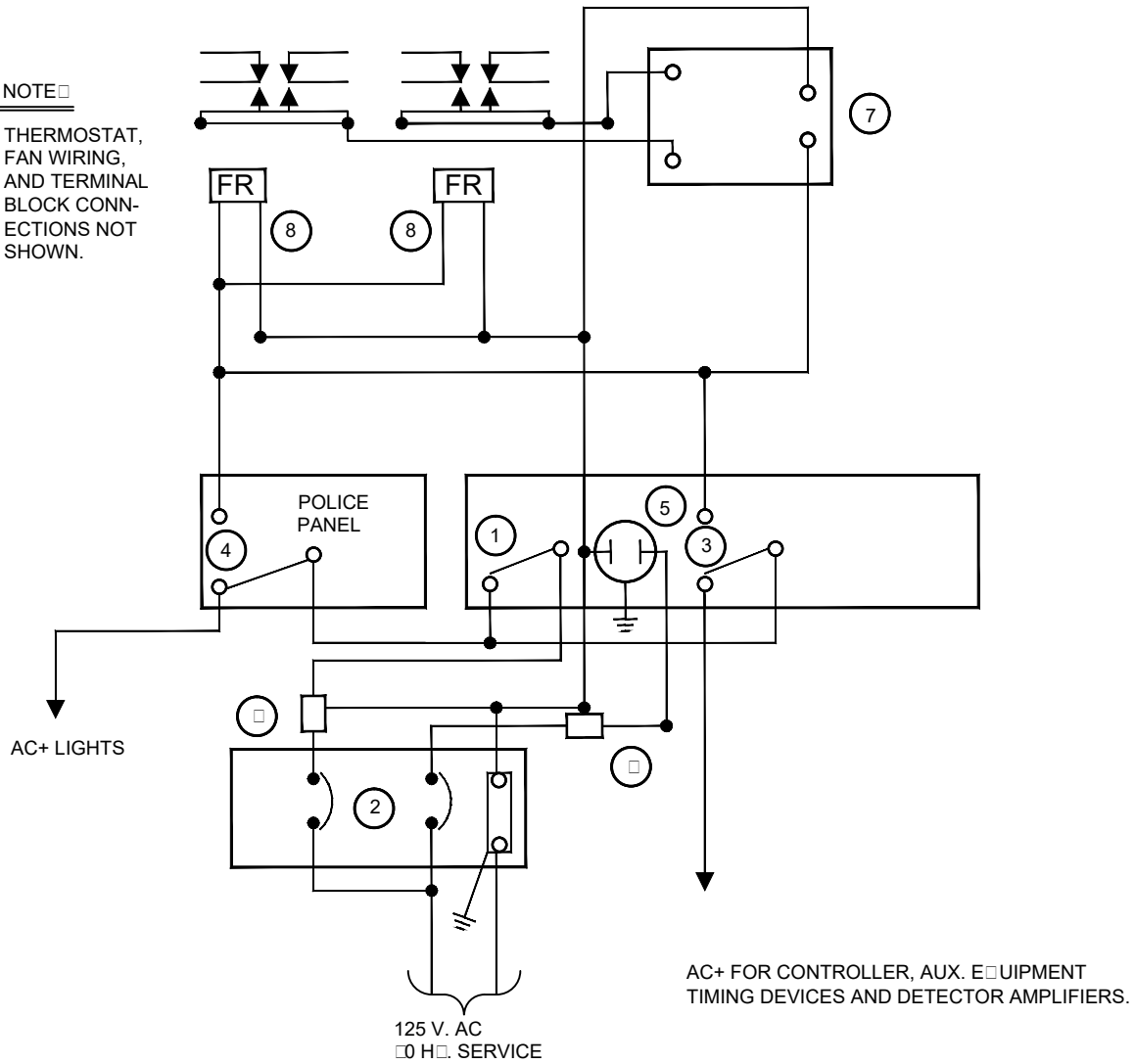
THE ARROW LENS SHALL BE GLASS AND CONFORM TO THE SPECIFICATIONS AS SET FORTH IN TECHNICAL REPORT NO. 1, REVISED 19□□, BY THE INSTITUTE OF TRAFFIC ENGINEERS AND APPROVED AS A STANDARD BY THE UNITED STATES OF AMERICA STANDARD INSTITUTE. ANY FUTURE REVISIONS ACCEPTABLE AND ADOPTED BY THE U.S.A.S.I. SHALL AUTOMATICALLY BE PART OF THIS DRAWING SPECIFICATION.

Effective 10/08/2020 to 12/09/2020

		AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA						
		12 INCH ARROW LENS						
		DATE	DWG. NO. 890					

NOTE

THERMOSTAT,
FAN WIRING,
AND TERMINAL
BLOCK CONN-
ECTIONS NOT
SHOWN.



NOTES

1. MAIN SWITCH.
2. 30 AMP CIRCUIT BREAKERS.
3. SIGNAL FLASH SWITCH INSIDE CABINET.
4. AUXILIARY DOOR SIGNAL FLASH SWITCH.
5. NEMA STD. PLUG RECEPTACLE WITH GROUNDING CONTACT.
6. RADIO FREQUENCY INTERFERENCE SUPPRESSOR.
7. SOLID STATE SIGNAL FLASHER (CABINET MFR. TO DETERMINE POLES AND CAPACITY, UNLESS OTHERWISE SPECIFIED)
8. SIGNAL FLASHING CONTROL RELAYS.

Effective 10/08/2020 to 12/09/2020

AGENCY APPROVED							B	C	H	L	M	N
SPECIFICATION REFERENCE							UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
							AUXILIARY CABINET EQUIPMENT WIRING					
DATE							DWG. NO.		891			