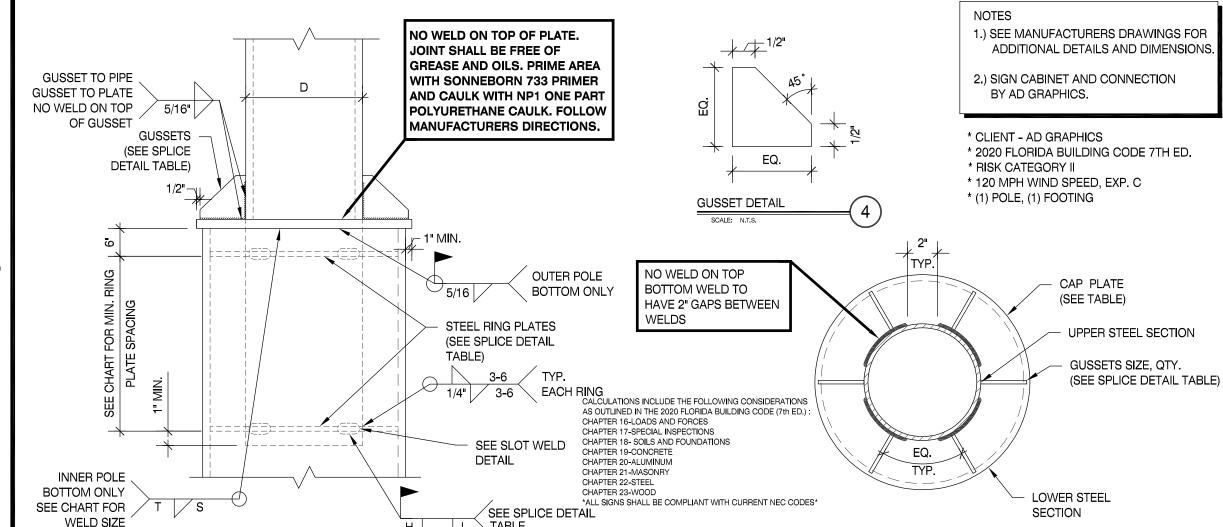


SPLICE NOTES:

- 1. THIS SPLICE CONNECTION IS A CRITICAL COMPONENT OF THE STRUCTURE. CARE SHOULD BE TAKEN IN FIT UP, WELDING, AND INSTALLATION
- 2. WELD = COLUMN WALL THICKNESS (U.N.O.) MINIMUM WELD SIZE IS DEPENDENT UPON THE THICKER OF THE TWO PARTS JOINED, EXCEPT THAT THE WELD SIZE NEED NOT EXCEED THE THICKNESS OF THE THINNER PART. FOR THIS EXCEPTION, PARTICULAR CARE SHALL BE TAKEN TO PROVIDE SUFFICIENT PREHEAT FOR SOUNDNESS OF THE WELD.
- 3. WELDING DESIGN, WORKMANSHIP, PROCEDURE AND TECHNIQUE SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF THE AMERICAN WELDING SOCIETY STRUCTURE WELDING CODE STEEL, AWS D1.1. WELDERS SHALL BE QUALIFIED FOR THE PROCESS USED. TYPE AND SIZE OF WELD MUST BE INSTALLED AS SHOWN ON THE DRAWING. CONTRACTOR MUST SUPPLY, WHEN REQUESTED, CERTIFICATION OF PROCEDURE, QUALIFICATION OF WELDER AND DOCUMENT OF WELDING PROCEDURE. BOTH SHOP & FIELD WELDERS MUST PUNCH THEIR INITIAL & DATE ON CAP PLATE FOR IDENTIFICATION.
- 4. ALL SHOP WELDS SMAW OR GMAW (EXCEPT ELECTRODES OF 70,000 PSI TENSILE STRENGTH RATED AND APPROPRIATE WIRE DIAMETER SHALL BE USED FOR WELDING IN ALL POSITIONS. ALL FIELD WELDING SHALL BE SMAW WELDED USING ELECTRODES W/70.000 PSI TENSILE STRENGTH RATED FOR WELDING IN ALL POSITIONS. AWS A5.1 OR A5.5 E7018-B2 OR APPROVED EQUAL.
- 5. COLUMN SURFACE NEAR WELDING AREA SHOULD BE CLEAN & DRY WHEN WELDING. SCRATCH IS NOT ALLOWABLE ON THE COLUMN SURFACE.



SPLICE DETAIL TABLE											
UPPER STEEL	MAX. WALL	CAP PLATE	RING PLATE	MIN. RING PLATE	NO. OF	SIZE OF	NO. OF SLOT WELDS/ PLT			SIZE OF SLOT WELDS	
SECTION	THICKNESS	THICKNESS	THICKNESS	SPACING	GUSSETS	GUSSETS		Т	S *	Н	L
<10"	3/8"	3/4"	3/4"	18"	4	3/8"	4	1/4"	5-6	5/8"	1 3/4"
12" - 18"	1/2"	3/4"	1"	27"	6	3/8"	6	5/16"	5-6	7/8"	2"
20" - 24"	1/2"	1"	1"	36"	6	1/2"	6	5/16"	11-12	7/8"	2 1/4"
26" - 30"	3/4"	1"	1 1/4'	45"	8	1/2"	8	5/16"	11-12	1"	2 1/2"
32" - 42"	3/4"	1 1/2"	1 1/4"	63"	8	3/4"	8	5/16"	11-12	1"	3"
48" - 54"	3/4"	1 1/2"	1 1/4"	84"	10	3/4"	10	3/8"	11-12	1"	3 1/2"
60" - 66"	3/4"	2"	1 1/4"	102"	12	1"	12	3/8"	11-12	1"	4"
72" - 96"	1"	2"	1 1/4"	144"	16	1"	16	3/8"	11-12	1 1/8"	4"

SPLICE DETAIL

SCALE: N.T.S.

1/8" MAX **CLEARANCE** RING PLATE RING PLATE STEEL SECTION SLOT WELD DETAIL 3

* 2" GAP BETWEEN WELDS REQUIRED

MBI COMPANIES INC.

299 N. WEISGARBER RD. KNOXVILLE, TN 37919

PHONE 865.584.0999 SIGN-ENGINEER.COM PROJECT: MILE MARKER 298, I-10, LAKE CITY, FL

DRAWING TITLE:

DRAWN BY: DEW

∖ TABLE

L

60°

CHECKED BY: COMM. NO. FCM

ENG. C.O.A. # 29794

SCALE: N.T.S.

PLAN VIEW

SCALE: N.T.S.

DWG.

No. 76813

STATE OF

P.E. LIC # 76813

ENG

DATE: DRAWING NO. 03/22/21 210231.002 DRAWN BY REV# DATE CORP. LIC. # F02000002650 BUS. LIC. # AA26000828

4

14' x 48' DIGITAL BILLBOARD

GROUND SIGN DESIGN SPECIFICATIONS:

REFER TO SIGN COMPANY'S DRAWINGS FOR MORE DETAILS, ALL DESIGNS. DETAILING FABRICATION AND CONSTRUCTION SHALL CONFORM TO: 2020 FLORIDA BUILDING CODE 7TH ED.

ACI

AISC

AMERICAN WELDING SOCIETY

LOCAL BUILDING CODES & ORDINANCES

- CONCRETE: 2500 PSI @ 28 DAYS
- STD. STEEL PIPE SECTION: ASTM A53 GRADE B (Fy=35 KSI), U.N.O.
- STEEL PIPE SECTION (> 20" Ø): ASTM A252 GRADE 3 (Fy=42 KSI MIN.) U.N.O.
- HSS ROUND SECTION: ASTM A500 GRADE B (Fy=42 KSI) U.N.O.
- HSS SQUARE/RECTANGULAR SECTION: ASTM A500 GRADE B (Fy=46 KSI)
- W SHAPES: ASTM A992 (Fy = 50 KSI)
- ANCHOR BOLTS: ASTM F1554 GRADE 36 U.N.O. (ALTERNATES GRADE 55 & 105) 8.
- **CONNECTION BOLTS: ASTM A325** 9
- THREADED RODS: ASTM A193 GRADE B7 10.
- 11. STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES & PLATES ASTM A36
- 12. REINFORCING: GRADE 60 ASTM A615
- 13. PROVIDE A MINIMUM OF THREE INCHES OF CONCRETE COVER OVER EMBEDDED STEEL
- 14. THE CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS & METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
- NO FIELD HEATING FOR BENDING OR CUTTING OF STEEL SHALL BE ALLOWED WITHOUT THE ENGINEER'S APPROVAL.
- 16. WELDING ELECTRODES: E70XX
- 17. ALLOWABLE SOIL BEARING PRESSURE ASSUMED: 2000 PSF
- 18. ASSUMED HORIZONTAL (PASSIVE PRESSURE) ASSUMED AT 150 PSF/FT OF DEPTH. ISOLATED LATERAL BEARING FOUNDATIONS FOR SIGNS NOT ADVERSELY AFFECTED A 1/2" MOTION AT THE GROUND SURFACE DUE TO SHORT TERM LATERAL LOADS SHALL BE PERMITTED TO BE DESIGNED USING TWO TIMES THE TABULATED CODE VALUES.
- 19. ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH.
- 20. FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE. THE SOIL BEARING CAPACITY IS TO BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. IF ALLOWABLE BEARING AND/OR LATERAL PRESSURE IS LESS THAN THE ABOVE ASSUMED AND/OR CALCULATED PRESSURES. THE ENGINEER SHOULD BE CONTACTED FOR RE-EVALUATION.
- 21. EXCAVATION SHALL BE FREE OF LOOSE SOIL BEFORE POURING CONCRETE.
- 22. WELDERS SHALL BE CERTIFIED FOR THE TYPE OF WELDING.
- 23. ADEQUATELY BRACE POLE(S) UNTIL CONCRETE HAS SET UP FOR 14 DAYS.
- GROUT UNDER BASE PLATES WITH NON-SHRINK GROUT.
- 25. THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF DIMENSIONS FURNISHED BY OTHERS.
- 26. ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION.
- 27. THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND SHOULD NOT BE USED AT OTHER LOCATIONS WITHOUT WRITTEN PERMISSION OF THE
- 28. DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN, BY OTHERS.

- 1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.
- 2.) SIGN CABINET AND CONNECTION BY AD GRAPHICS.
- * CLIENT AD GRAPHICS
- * 2020 FLORIDA BUILDING CODE 7TH ED.
- * RISK CATEGORY II
- * 120 MPH WIND SPEED, EXP. C
- * (1) POLE, (1) FOOTING

CALCULATIONS INCLUDE THE FOLLOWING CONSIDERATIONS AS OUTLINED IN THE 2020 FLORIDA BUILDING CODE (7th ED.): CHAPTER 16-LOADS AND FORCES CHAPTER 17-SPECIAL INSPECTIONS CHAPTER 18- SOILS AND FOUNDATIONS **CHAPTER 19-CONCRETE** CHAPTER 20-ALUMINUM

CHAPTER 21-MASONRY CHAPTER 22-STEEL **CHAPTER 23-WOOD**

ALL SIGNS SHALL BE COMPLIANT WITH CURRENT NEC CODES



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5

