

Lighting: GE LEDs

ALUMINUM FABRICATED CABINET & RETAINERS, PTD TO MA TCH PMS# 300C,

NEW 3/16" POLYCARBONATE PAN-FORMED FACES W/ EMBOSSED FACES WITH POLYCARBONATE.

(A.) TOP PART OF LOGO - 3M D ARK RED # 3630-73. (B.) BOTTOM PART OF LOGO - 3M BRISTOL BLUE # 3630-97 W/ WHITE SHO-THRU COPY READING "SINCE

(C.) "FIRESTONE" - 3M DARK RED # 3630-73. (D.) "COMPLETE AUTO CARE"- 3M BRISTOL BLUE #

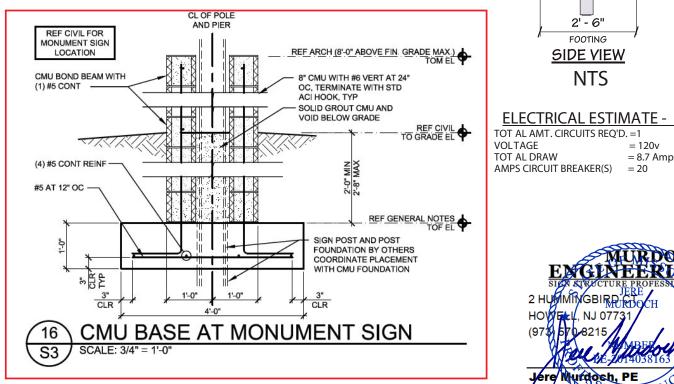
(E.) F ACE BKGD.- WHITE SHO-THRU.

BASE BY G.C. - BASE TO MATCH BUILDING.

(1) CONCRETE PAD W/#3 REBAR ON 12" CENTERS. -BY G.C.

CONCRETE PIER REQ'D. - SIZE & DEPTH VARIES PER

WALL STEEL SUPPORT REQ'D. - SIZE & LENGTH VARIES PER LOCAL CODE





Design # Sign Family Location 1474860 Address 35 SW Market St Lees Summit MO 64082 Acct. Rep. Coordinator Designer Approval / Date

Artist/Date: 9/03/19 hw

Revision / Date

Client

Sales Estimating Engineering

Rev. 2: 01/07/20 hw Rev. 3: 02/04/20 hw

Rev. 4: 05/08/20 hw Rev. 5: 08/19/20 hw

Rev. 6: 08/20/20 hw

IMPORTANT APPROVAL NOTIFICATION ONCE APPROVAL HAS BEEN RECEIVED. YOU WILL BE HELD FINANCIALLY RESPONSIBLE FOR ANY ADDITIONAL CHANGES OR ADJUSTMENTS TO THE

Authorized Signature: Print Name: _

☐ Approved As Shown



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FINAL ELECTRICAL CONNECTION BY CUSTOMER

VOLTAGE = 120vTOT AL DRAW = 8.7 Amps AMPS CIRCUIT BREAKER(S)

2' - 6"

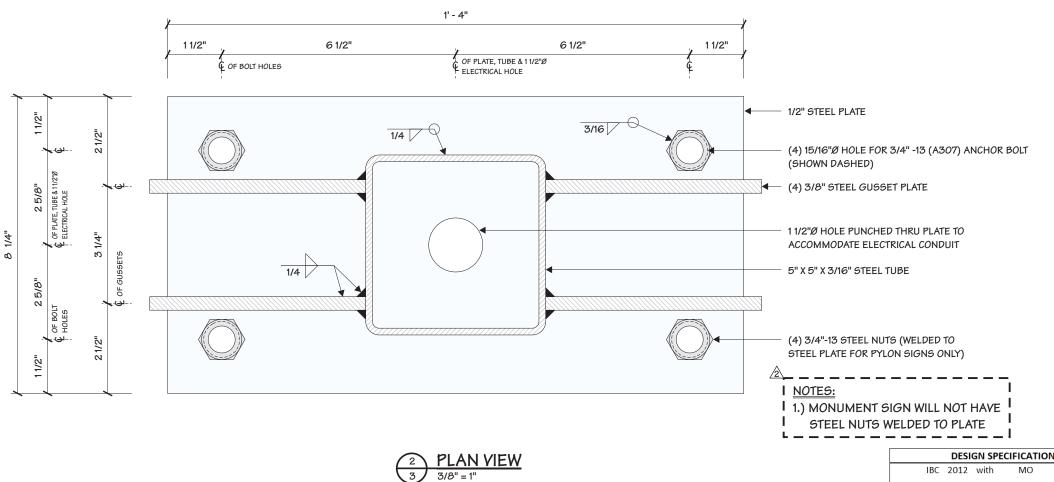
FOOTING

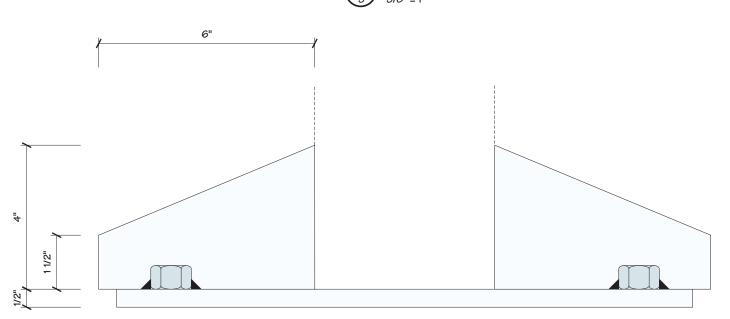
SIDE VIEW

NTS

STEEL TUBE &

Jere Murdoch, PE









*[*9/22/2020 Jere Murdoch, PE Frofessional Engineer MO PE Lic. #2014038163

> 2655 International Pkwy. Virginia Beach, VA 23452

BRIDGESTONE FIRESTONE Date 02.26.09 AGI EOR C. MILLER Lead Drafter NJA Drawn By DLR/LOC/NJA Project Mgr. F. SMITH **General Sign Specifications** ☐ Interior Exterior ☐ Single Faced ☐ Double Faced Non-Illuminated Illuminated Amps(+/-) Windspeed

 \Box .

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C PG #:

3

04.19.09 09.10.09 04.16.19 05.28.19

09048

BF-P-50HWL

GENERAL: 1. ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL BUILDING CODE (IBC). 2. CONSTRUCTION METHODS AND PROJECT SAFETY: DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS, PROCEDURES, OR SEQUENCE OF CONSTRUCTION. TAKE RECESSARY PREADUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. THE EOR WILL NOT ENORGE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALT BESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALT BESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES THAT ARE FOUND. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. 4. ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE ROUGHT TO THE ATTENTION OF THE ENGINEER SHALL PROVIDE A SOLUTION PRIOR TO PROCEEDING WITH ANY WORK AFFECTED BY THE CONNEITOR OR MISSION OF THE WORK CONSTRUCTION SHALL BE ROUGHT OF THE ATTENTION OF THE WORK CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE EFFERNCE IS REPEATED IN EVERY INSTANCE. 4. WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN ENGINEER OF RECORD BEFORE CONSTRUCTION. 5. WHERE OF COORDING TO THE NEW

SIEEL		
 STEEL SHAPES SHALL CON 	FORM TO THE FOLLOWING:	
ROUND HSS	ASTM A500, GR B	Fy=42 KSI MIN
SQUARE/RECT HSS	ASTM A500, GR B	Fy=46 KSI MIN
THREADED ROD	F1554 GR 55	Fy=55 KSI MIN
STEEL PLATE	ASTM A36	Fy=36 KSI MIN
STD. PIPE	ASTM A53, GR B	Fy=35 KSI MIN

2. BOLTS SHALL CONFORM TO ASTM A307 GRADE B
3. BOLTS AND THREADED ROD SHALL BE HOT-DIP GALVANIZED PER ASTM F2329 UNO.
4. ANCHOR BOITS SHALL CONFORM TO ASTM F1554 UNO.
5. NUTS SHALL CONFORM TO ASTM A563.
5. WASHERS SHALL CONFORM TO ASTM R844.
7. STEEL HARDWARE SHALL BE HOT-DIP GALVANIZED PER ASTM A153 UNO 8.
WEIDINIG: WEIDINIG:

- a. WELD STRUCTURAL STEEL IN COMPLIANCE WITH ANSI/AWS D1.1 AND AISC WELD STRUCT UNIX STEEL IN COMPUTANCE WITH AND/MAYS LIT, AND ANS.
 SPECIFICATION, CHAPTER I. WELDERS SHALL BE CERTIFIED AS REQUIRED BY
 GOVERNING CODE AUTHORITY. WELDING SHALL BE DONE BY ELECTRIC ARC
 PROCESS USING LOW-HYDROGGE FLECTRODES WITH SPECIFIED TENSILE STRENGTH
 NOT LESS THAN 70 KSI UNLESS NOTED OTHERWISE.

 ALL SHOP AND FEICH WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED
 WELDER WITH ACTIVE STATUS ATTIME OF WELDING
- c. UNI ESS A LARGER WELD SIZE IS INDICATED. PROVIDE MINIMUM SIZE WELDS PER AISC SPECIFICATION, SECTION J2, TABLE J2.4
- d. BASE PLATES SHALL BE WELDED ON TOP AND BOTTOM WITH CONTINUOUS WELDS OF AT LEAST 1/4" (IF PLATE IS CUT TO FIT TUBE INTO PLATE)

ALUMINUM

1. FABRICATE AND ERECT ALUMINUM IN COMPLIANCE WITH THE ALUMINUM ASSOCIATION
(AA) 2010 ALUMINUM DESIGN MANUAL (ADM) 1, THE SPECIFICATIONS FOR ALUMINUM
SHEET METAL WORK (ASM3S), AND IBC CHAPTER 20.
PIPEAND TUBE SHALL BE 6061-16 PER ASTM B241 OR B429 WITH Ftu=38 KSI MIN, Fty=35
KSI MIN, Ftw=24 KSI MIN, Fty=15 KSI MIN.
S. TO STRUCTURAL PROFILES SHALL BE 6061-16 PER B308 WITH Ftu=38 KSI MIN, Fty=35 KSI
MIN, Ftu=24 KSI MIN, Fty=15 KSI MIN.
SHEET AND PLATE SHALL BE 6061-16 PER ASTM B209 WITH
Ftu=24 KSI MIN, Fty=35 KSI MIN, Fty=45 KSI MIN, Fty=35 KSI
MIN, Fty=25 KSI MIN, Fty=5 KSI MIN, Fty=35 KSI MIN, Fty=16 KSI MIN, Fty=35 KSI

WITH CURRENT STATUS AT TIME OF WELDING
UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE WELD PER ADM. ALL

. ONLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE WELD PER ALUMINUM WELDED JOINTS SHALL HAVE WELD SIZES OF AT LEAST \$\frac{1}{4}\text{ INCH.} FILLET WELDS SHALL NOT EXCEED THINNEST MEMBER WALL THICKNESS JOINED. ALUMINUM WELD FILLER SHALL BE 5356 ALLOY

 ALUMINUM WELD FILLER SHALL BE 5356 ALLOY
 WELDING PROCESS GMAW OR GTAW SHALL BE IN ACCORDANCE WITH AWS D1.2
 ALUMINUM CHANNEL LETTERS SHALL BE CONSTRUCTED OF 0.090" RETURNS AND 0.125"
 BACKS MINIMUM, UNLESS A LARGER SIZE IS INDICATED ON DRAWINGS. THIS NOTE SHALL 12. PROVIDE NEOPRENE GASKET BETWEEN DISSIMILAR METALS TO PREVENT GALVANIC

COATED WITH BITUMINOUS COATING OR POLYURETHANE WHERE IN CONTACT WITH

4.FASTENERS BETWEEN DISSIMILAR METALS SHALL BE STAINLESS STEEL 316.

CONCRETE & REINFORCEMENT

1. MINIMUM 28-DAY COMPRESSIVE STRENGTH (fc") SHALL BE 3,000 PSI. THE MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.45 BY WEIGHT. A MINIMUM OF 5-3/4 BAGS OF CEMENT SHALL BE USED PER CUBIC YARD WITH A SLUMP OF 4" +/- 1.

REINFORCEMENT TO BE ASTM A615 GR 60, Fy=60 KSI UNO CALCIUM CHLORIDE OR ADDED CHLORIDE IS NOT PERMITTED WITH MECHANICAL VIBRATION: ALL REINFORCED CONCRETE SHALL BE CONSOLIDATED WITH MECHANICAL

CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-14

PROVIDE A MINIMUM OF 2-1/2" COVER OF ALL EMBEDDED STEEL REBAR AND A MINIMUM OF 6 INCHES OF COVER FOR DIRECT BURIED PIPE OR TUBE MEMBERS.

FOUNDATIONS

1. CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR A MINIMUM OF 7 DAYS PRIOR TO SIGN BOX INSTALLATION, (EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET AND THE SIGN IS DEOLDATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE BOX MAY BE INSTALLED THE SAME DAY AS THE FOOTING IS POURED.

2. FOOTINGS MUST BE POURED AGAINST UNDISTURBED EARTH, SOIL BACKFILL IS UNACCEPTIABLE, WHEN AS ONOTUBE IS USED AS THE FORM, 3/4" BILESTONE OR CONCRETE SHALL BE USED TO BACKFILL THE SPACE BETWEEN THE SONOTUBE AND LUNDISTURBED FARTH.

UNDISTURBED EARTH.
COLD WEATHER PLACEMENT: PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR
REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS OR LOW TEMPERATURES. DO NOT POUR CONCRETE DURING OR WHEN FREEZING TEMPERATURES ARE ANTICIPATED WITHIN 3 DAYS OF POUR.

. REINFORCEMENT IS NOT REQUIRED FOR DIRECT BURIAL TYPE SIGN FOOTINGS FOR SIGNS OF 25 FEET OVERALL HEIGHT OR LESS, DIRECT BURIED STEEL SHALL EXTEND TO 6 INCHES FROM BOTTOM OF FOOTING.

FOR ANCHOR BOLIT BASE PLATE - SQUARE FOOTINGS, PROVIDE A MINIMUM OF #5 VERTICAL REBAR @ 12" O.C. "OFFSET RADM PERIMETER, TOP AND BOTTOM OF FOOTING. PROVIDE 3 HORIZONTAL TIES @ 12" O.C.

FOOTING, PROVIDE HE HUNGLONIAL ITES @ 12" U.C..
FOR ANCHOR BOLT/F BASE PLATE - ROUND FOOTINGS, PROVIDE A MINIMUM OF SIX (6)
VERTICAL #5 REBARS, EVENLY SPACED, 4" OFFSET FROM FOOTING PERIMETER & #3
HORIZONTAL ITES, 12" O.C. UNILESS OTHERWISE NOTED.
AMCHOR BOLTS SHALL BE TIED TO REBAR CAGE AT A MINIMUM OF TWO LOCATIONS PER
ANCHOR BOLT.

ANCHOR BOLT FOOTING DESIGN ASSUMES FOOTING SHALL BE EXCAVATED AND POURED IN

UNDISTURBED NATURAL EARTH, CAPABLE OF WITHSTANDING A MINIMUM 1,500 PSF VERTICAL DESIGN BEARING PRESSURE AND 150 LBS/SF/FT OF DEPTH OF LATERAL BEARING PRESSURE BASED ON SOIL DATA OBTAINED FROM THE USGS SOIL SURVEY.

IF CLAY, SILTY - CLAY, ORGANIC OR FILL SOIL IS ENCOUNTERED UPON EXCAVATION, CONTACT MURDOCH ENGINEERING FOR FOOTING DESIGN MODIFICATION PRIOR TO

EXISTING CONDITIONS:

IF EXISTING CONDITIONS ARE NOT AS DETAILED IN THIS DESIGN, THE INSTALLER SHALL CEASE WORK AND NOTIFY MURDOCH ENGINEERING IMMEDIATELY.

LEASE WORN AND THE WORLD FEMALE REPORTING INVINITIES THE REPORTING ON-SITE INSPECTIONS OR VERIFICATIONS. IT IS THE RESPONSIBILITY OF THE INSTALLER, STRUCTURE OWNER, AND PROPERTY OWNER TO IDENTIFY EMISTING CONDITIONS AND CONTACT MURDOCH ENGINEERING WITH ANY DISCREPANCIES OR CONCERNS

INSTALLER SHALL CONFIRM THE DIAMETER AND THICKNESS OF EXISTING MEMBERS AND NOTIFY MURDOCH ENGINEERING OF ANY DISCREPANCIES.

INSTALLER SHALL INSPECT AND CONFIRM THE QUALITY OF EXISTING STRUCTURE AS "IN GOOD REPAIR". IF THERE ARE ANY INDICATIONS THAT THIS IS NOT THE CASE, INSTALLER

SHALL CEASE WORK IMMEDIATELY AND NOTIFY MURDOCH ENGINEERING ANY EXISTING INFORMATION SHOWN HAS BEEN FURNISHED BY THE PERSON(S) OR COMPANY THIS DOCUMENT WAS PREPARED FOR

(SEE TITLE BLOCK), MURDOCH ENGINEERING IN NO WAY CERTIFIES THIS INFORMATION AS 'AS-BUILT", IF THERE IS ANY REASON TO BELIEVE THE EXISTING CONDITIONS DETAILED HEREIN ARE NOT ACCURATE, MURDOCH ENGINEERING SHALL BE NOTIFIED IMMEDIATELY

SCOPE OF WORK

LIMITS OF LIABILITY TO EXTEND ONLY TO THE QUANTITY INDICATED. ATTEMPTS IN PART OR IN WHOLE TO INSTALL GREATER QUANTITIES THAN THOSE SPECIFIED WITHOUT CONSULTING MURDOCH ENGINEERING SHALL VOID ALL PROFESSIONAL LIABILITY AND COVERAGE.

SHEET INDEX

NOTES & ELEVATION

ADDITIONAL NOTES

SYMBOLS

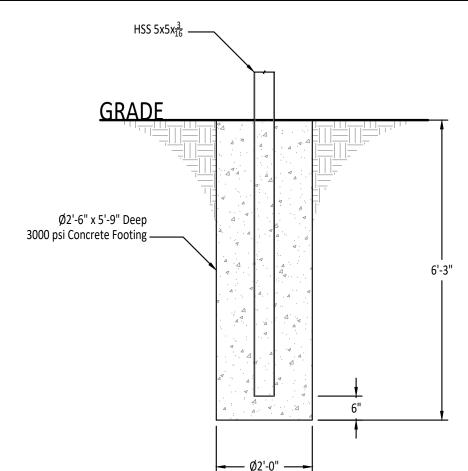
CONCRETE

SAND (UNO.)

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Footing Elevation Scale: $\frac{1}{2}$ " = 1'-0"

Ø2'-6" x 5'-9" Deep HSS 5x5x_6 3000 psi Concrete Footing

Footing Plan View

Scale: $\frac{1}{2}$ " = 1'-0"



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PREPARED FOR:

AGI

onument Š 35 SW Market St Lees Summit MO (Firestone

DESIGN SPECIFICATIONS IBC 2012 with

ASCE 7-10 Minimum Design Loads for Buildings & Other Structs ACI 318-14 Building Code Requirements for Structural Co

DESIGN LOADS Vult = 115 mph

xposure isk Cat. irnd. Snow Pg = 20 psf



Professional Engineer
Mo PE Lic. #2014038763

NOTES & ELEVATION

S.1

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