



City of Napoleon, Ohio

Zoning Department

255 West Riverview Avenue, P.O. Box 151
Napoleon, OH 43545

Mark B. Spiess, Senior Engineering Technician / Zoning Administrator
Telephone: (419) 592-4010 Fax: (419) 599-8393
www.napoleonohio.com

COMMERCIAL ZONING PERMIT

Issued Date: May 9, 2019

Expiration Date: May 9, 2020

Permit Number: P-19-079

Job Location: 1805 Scott St.

Owner: Mc Donald's
P.O. Box 250
Archbold, OH 43502

Contractor: Site Enhancement Services
567-232-2529

Zone: C-4 Planned Commercial

Set Backs: Principle Building

Front: None Rear: None Side: None

Comments:

4.83' x 4.14' menu board and 2.43' x 4.15' pre-menu board in each drive-thru lane. Install 15' of conduit into old electric. Dig new concrete footers.

Permit Type: Zoning

Fee: \$50.00

Status: Paid

Amount Due: \$0.00

Mark B. Spiess
Sr. Eng. Tech / Zoning Admin.



CITY OF NAPOLEON

Building & Zoning Division

255 W. Riverview Avenue, PO Box 151, Napoleon, OH 43545

Phone: 419-592-4010 - Fax: 419-599-8393

P-19-079

Zoning Administrator
Building Commissioner
Tom Zimmerman

COMMERCIAL ZONING PERMIT APPLICATION

ADDRESS OF PROPOSED BUSINESS: 1805 N Scott St, Napoleon, OH 43545

BUSINESS OWNER: McDonald's

OWNER ADDRESS: PO Box 250, Archbold, OH 43502

OWNER PHONE: _____ CELL: _____

PROPERTY OWNER: CDET Napoleon, LTD

PROPERTY OWNER ADDRESS: 938 Wren Way, San Marcos, CA 92078

PROPERTY OWNER PHONE: _____ CELL: _____

PREVIOUS BUSINESS USE: 435

ESTIMATED CONSTRUCTION COST \$ 37,500

ZONE: _____ # OF PARKING SPACES: _____ SQ FT OF BUILDING: _____

NEW BUSINESS USE/PROJECT DESCRIPTION: Install (1) 4.83' x 4.14' menu board and (1)

2.43' x 4.15' pre-menu board in each drive-thru lane. Install 15' of conduit into old electric. Dig new concrete footers.

ADDRESS PERMIT SHOULD BE SENT TO:

6001 Nimitz Pkwy, South Bend, IN 46628

APPLICANT: Ryan Price PHONE#: 574-232-2529

FEE: **\$50.00** (Fee may be waived if usage or size of building does not change. MZON 100.3100.46690)

Ryan Price
Digitally signed by Ryan Price
DN: cn=Ryan Price, o.ou,
email=rep@siteenhancementservices.com, c=US
Date: 2019.05.01 11:35:40 -04'00'

05/01/2019

SIGNATURE OF APPLICANT

DATE

TOM ZIMMERMAN
ZONING ADMINISTRATOR

DATE

Building/Zoning Use Only			
Permit # _____	Batch # _____	Check # _____	Date _____



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Commercial Zoning Permit Application

Date 5-1-19 Job Location 1805 Scott St Napoleon
 Owner McDonalds Telephone # _____
 Owner Address P.O. Box 250 Archbold OH 43502
 Contractor Site Enhancement Services Cell Phone # 574-232-2529
 Description of Work to be Performed Install (1) 4.83' x 4.14' menu board and (1) 2.43' x 4.15' pre-menu board in each drive thru.
 Estimated Completion Date 7-31-19 Estimated Cost \$37,500.00

Demo Permit - \$100.00 - See Separate Form	(MDEMO 100.1700.46690)	\$
Zoning Permit - \$50.00	(MZON 100.1700.46690)	\$ 50.00
Fence - \$25.00	(MZON 100.1700.46690)	\$
Garage and Shed Under 120 SF (Detached) - \$25.00	(MZON 100.1700.46690)	\$
Driveway/Sidewalk/Curbing - \$0.00	(MZON 100.1700.46690)	\$
Outside Water/Sewer Repair - \$0.00	(MBLDG 510.0000.47300)	\$
1" Water Tap, 5/8" Meter, Copper Setter and Transmitter - \$1,200.00(Outside City - \$5,680)	(MBLDG 510.0000.47300)	\$
1" Water Tap, 3/4" Meter, Copper Setter and Transmitter - \$1,300.00(Outside City - \$5,820)	(MBLDG 510.0000.47300)	\$
1" Water Tap, 1" Meter, Copper Setter and Transmitter - \$1,400.00 (Outside City - \$5,960)	(MBLDG 510.0000.47300)	\$
1 1/2" Water Tap and Larger - See Operations Superintendent		\$
1" Meter, Copper Setter and Transmitter Without Tap - \$525.00	(MBLDG 510.0000.44730)	
3/4" Meter, Copper Setter and Transmitter Without Tap - \$440.87	(MBLDG 510.0000.44730)	
5/8" Meter, Copper Setter and Transmitter Without Tap - \$350.00	(MBLDG 510.0000.44730)	
Sewer Tap for All Commercial and Industrial Uses - \$600.00	(MBLDG 510.0000.44730)	\$
Sewer Tap Inspection Fee, M.F., Comm., Indust. 50 L.F. or Less - \$100.00	(MBLDG 510.0000.44730)	
Sewer Tap, M.F., Comm., Indust, 51 L.F. or More - \$100.00 + \$10.00 for each 50 L.F.	(MBLDG 510.0000.44730)	\$
Manufactured Home Court - \$87.00 Per Dwelling	(MBLDG 510.0000.44730)	
Sewer Main Extension in Right of Way Inspection - 2% of Construction Cost	(MBLDG 510.0000.44730)	\$
Inspection Fee Outside the Corporation Limits - Increase 50%	(MBLDG 510.0000.44730)	
TOTAL FEE:		\$ 50.00

I FULLY UNDERSTAND THAT NO EXCAVATION, CONSTRUCTION OR STRUCTURAL ALTERATION, ELECTRICAL OR MECHANICAL INSTALLATION OR ALTERATION OF ANY BUILDING STRUCTURE, SIGN, OR PART THEREOF AND NO USE OF THE ABOVE SHALL BE UNDERTAKEN OR PERFORMED UNTIL THE PERMIT APPLIED FOR HEREIN HAS BEEN APPROVED AND ISSUED BY THE CITY OF NAPOLEON ZONING DEPARTMENT. I hereby certify that I am the Owner of the named property, or that the proposed work is authorized by the Owner of record and that I have been authorized by the Owner to make this application as his/her authorized agent and I agree to conform to all applicable laws of the jurisdiction. In addition, if a permit for Work described in this application is issued, I certify that the code official or the code official's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.

I HEREBY ACKNOWLEDGE THAT I HAVE READ AND FULLY UNDERSTAND THE ABOVE LISTED INSTRUCTIONS.

SIGNATURE OF APPLICANT: _____ DATE: _____

BATCH # 41096 CHECK # 1812332 DATE 5-9-19



May 1, 2019

RE: McDonald's – 1805 N Scott St, Napoleon, OH 43545

Enclosed is the check for \$50 and the zoning permit application and plans for the McDonald's located 1805 N Scott St, Napoleon, OH 43545. If there any additional permits or fees, please let me know.

If you have any questions or need any additional information, please contact me at 574-232-2529 or rep@siteenhancementservices.com

Thank You,

Ryan Price
Permit Specialist
Site Enhancement Services
6001 Nimitz Parkway
South Bend, IN 46628
P: 574-232-2529
F: 574-237-6166
rep@siteenhancementservices.com

SOUTH BEND

6001 Nimitz Pkwy | South Bend, IN | 46628 | p. 888.276.7107 | f. 574.237.6166

McDonald's Drive Thru Menu Board Replacement



Digital Menu Board

- Approximately 20 square feet

Digital Pre-Browsed Board

- Approximately 10 square feet



Existing Menu Board

- OPO Menu Board Approximately 41 sf
- FP-43 Menu Board Approximately 43 sf

McDONALD'S MENUBOARDS RENDERINGS

CLIENT:

BY:

DATE:

PROJECT NO.:

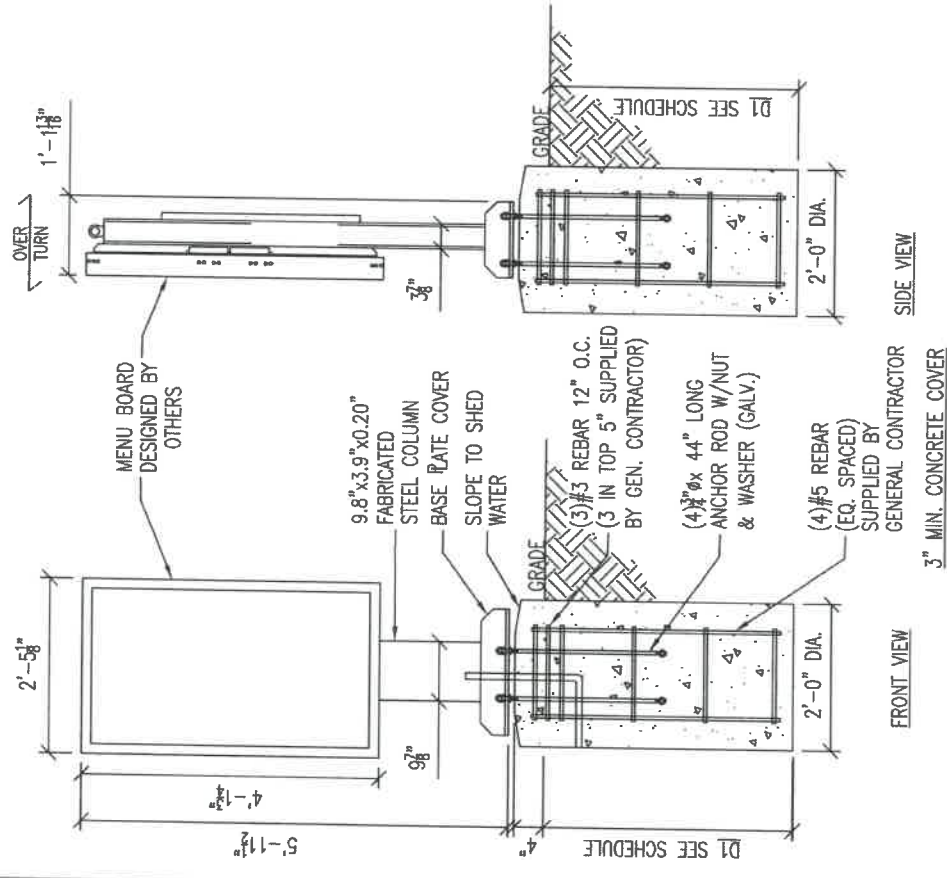
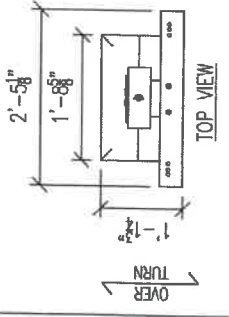
DRAWING NO.:

SHEET 1

OF 4

Pre-Browse Board

Sign Height 5'-11 1/2" (5.958')
 Pre Browse Board 4'-1 3/4" (4.1458')
 Dimensions 2'-5 1/8" (2.4260')
 Sign Square Footage = 10.06 square feet



Pre-Browse: Peak Hours (future)

Pre-Browse: Full Screen (today)

Pre-Browse: Non-Peak Hours (future)

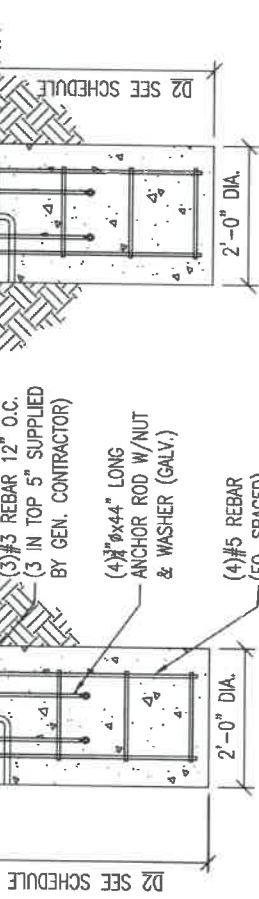
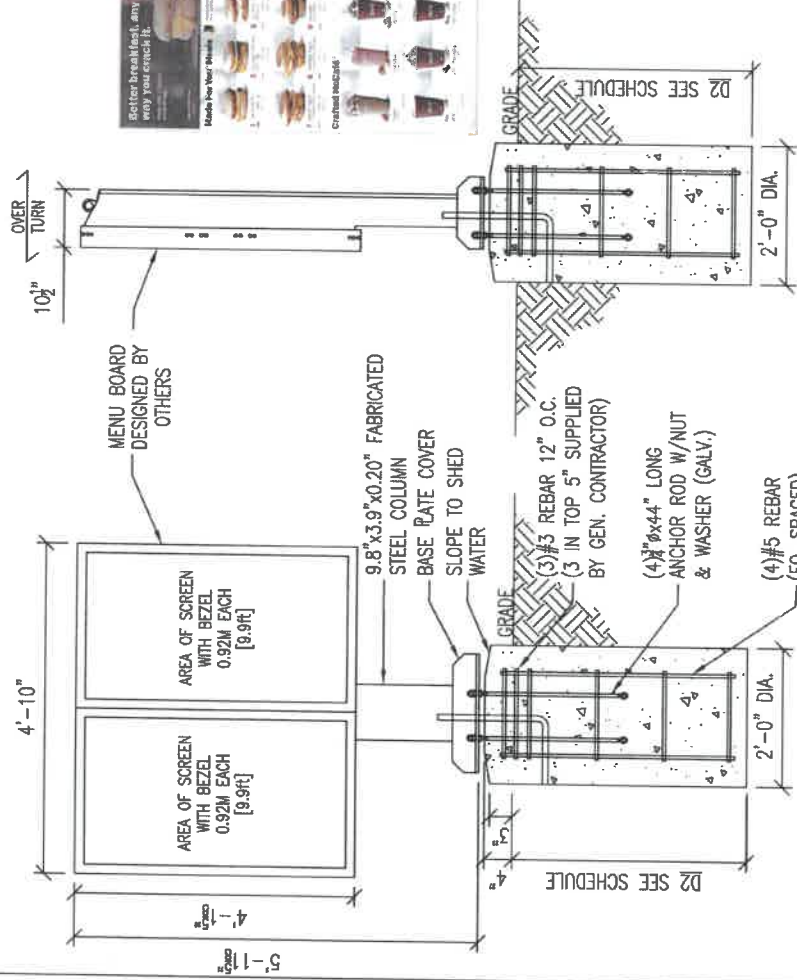
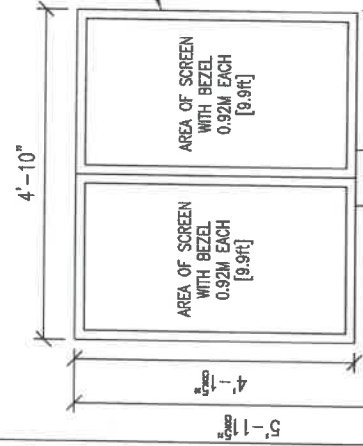
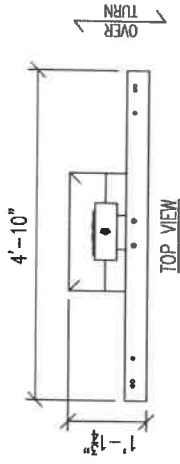
MCDONALD'S # MENUBOARD RENDERINGS

CLIENT: _____

SHEET	2	BY		PROJECT NO.	
	4	DATE		DRAWING NO.	

Menu Board

Sign Height 5'-11 5/8" (5.969')
 Menu Board 4'-1 5/8" (4.1354') Height
 Dimensions 4'-10" (4.8333')
 Sign Square Footage = 20 square feet



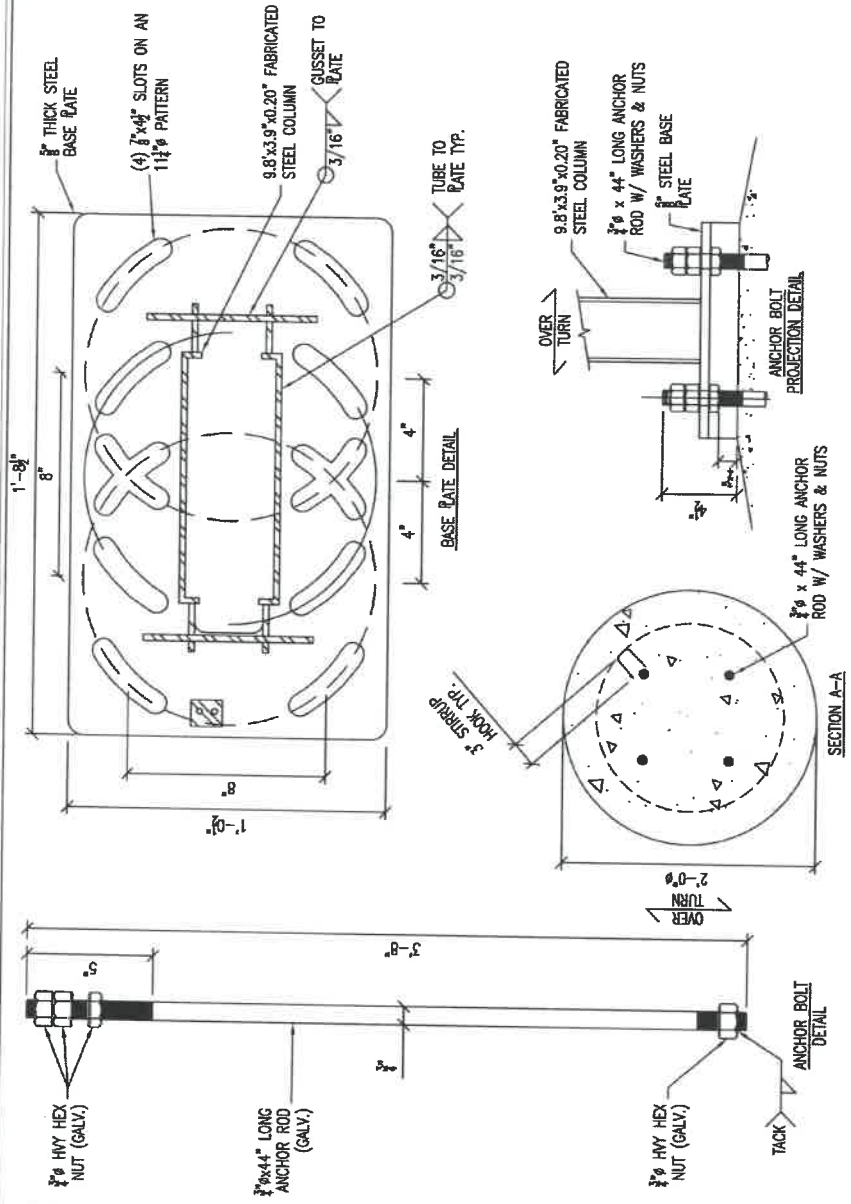
FRONT VIEW SIDE VIEW

McDONALD'S MENUBOARDS RENDERINGS

CLIENT:

SHEET	3	BY	PROJECT NO.
	OF	DATE	DRAWING NO.
	4		

FOUNDATION SCHEDULE		
ULTIMATE WIND SPEED (SEE GEN. NOTES)	FOOTING DEPTH	
	D1	D2
110	3'-6"	3'-6"
115	3'-6"	3'-6"
120	3'-6"	3'-6"
130	3'-6"	3'-9"
140	3'-6"	4'-0"
150	3'-6"	4'-4"
160	3'-6"	4'-6"
170	3'-9"	4'-9"
180	4'-0"	5'-0"



McDONALD'S MENUBOARDS RENDERINGS

CLIENT:

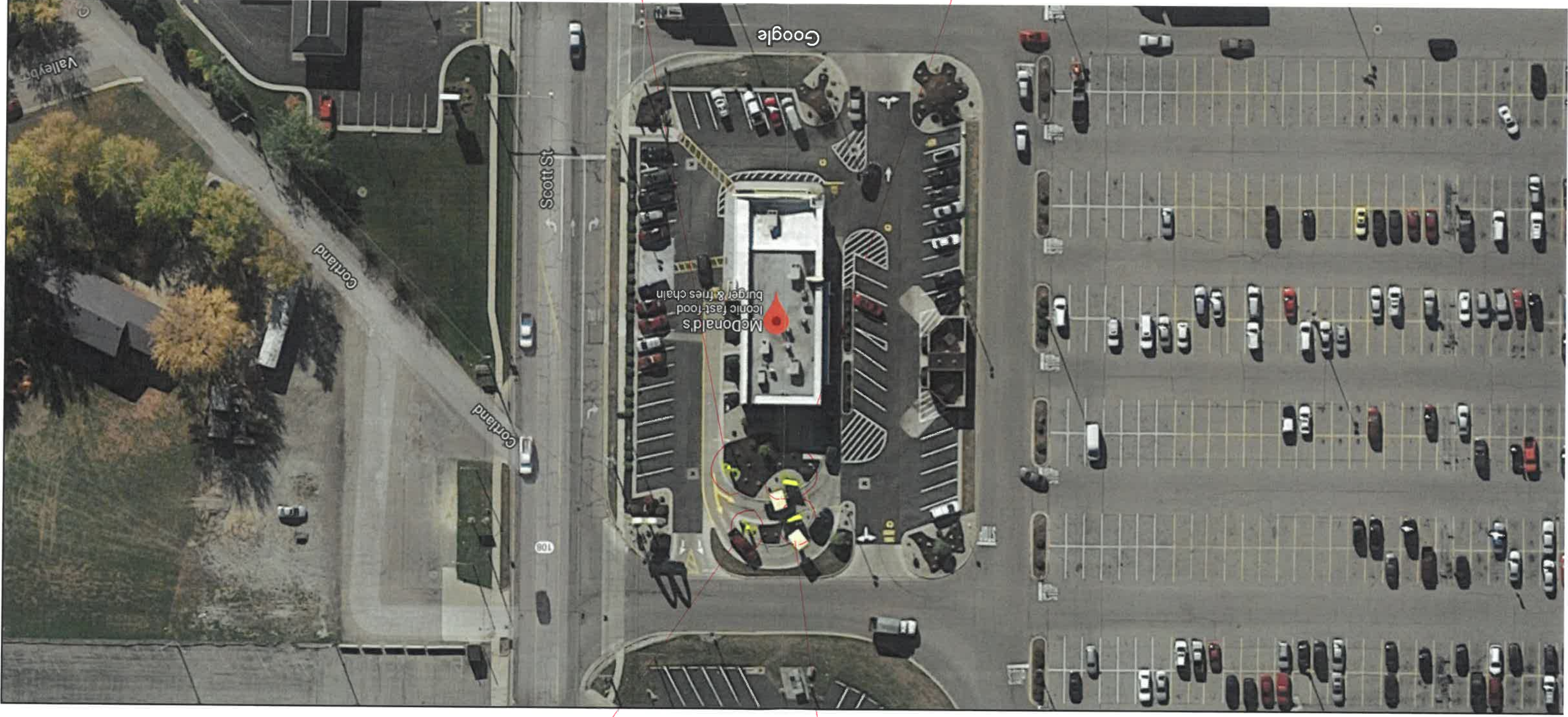
PROJECT NO.

BY

DATE

SHEET 4 OF 4

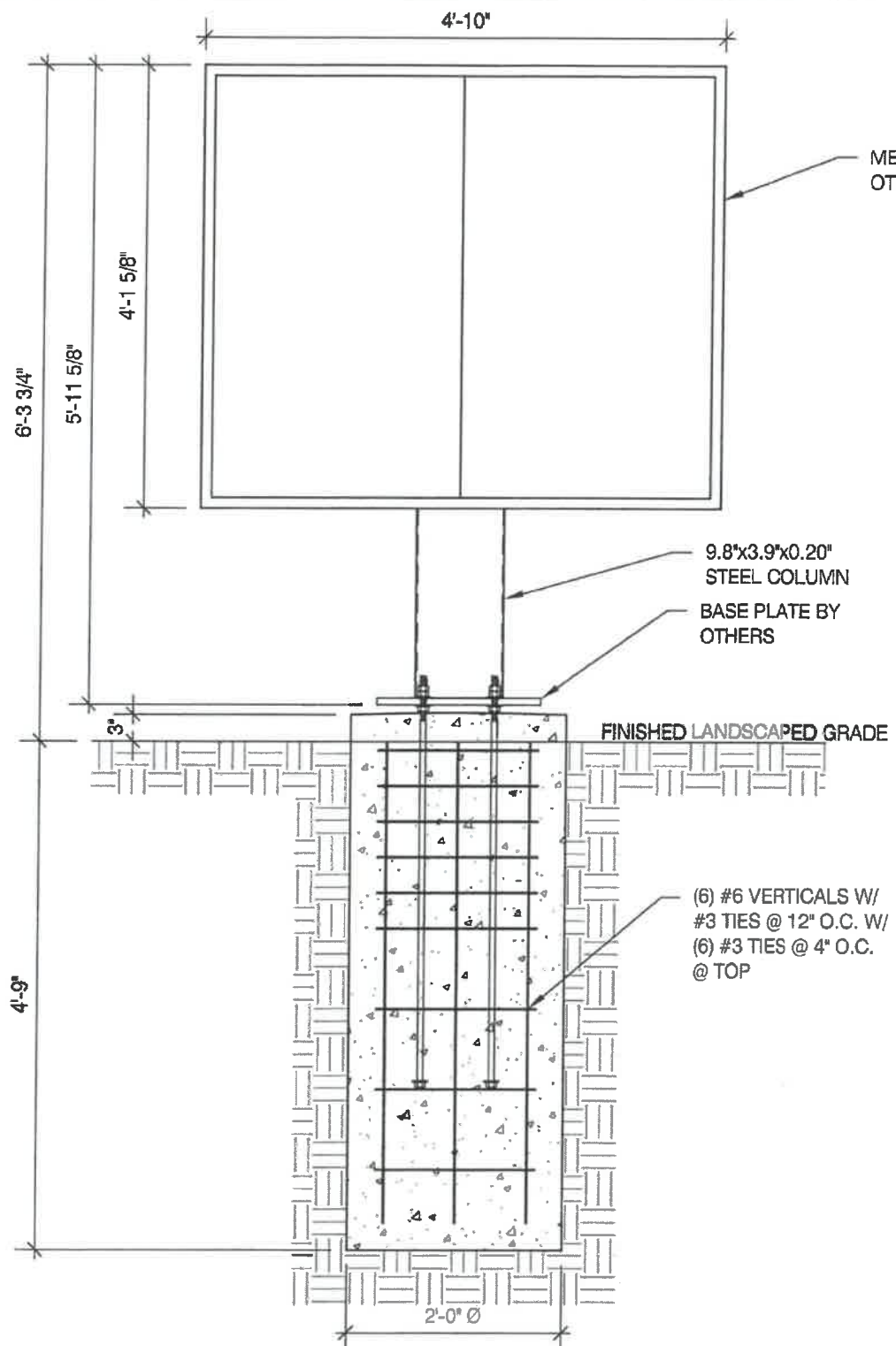
DRAWING NO.



Imagery ©2019 Google, Map data ©2019 Google 50 ft

Menu Board Lane 2
Pre-Menu Board Lane 2

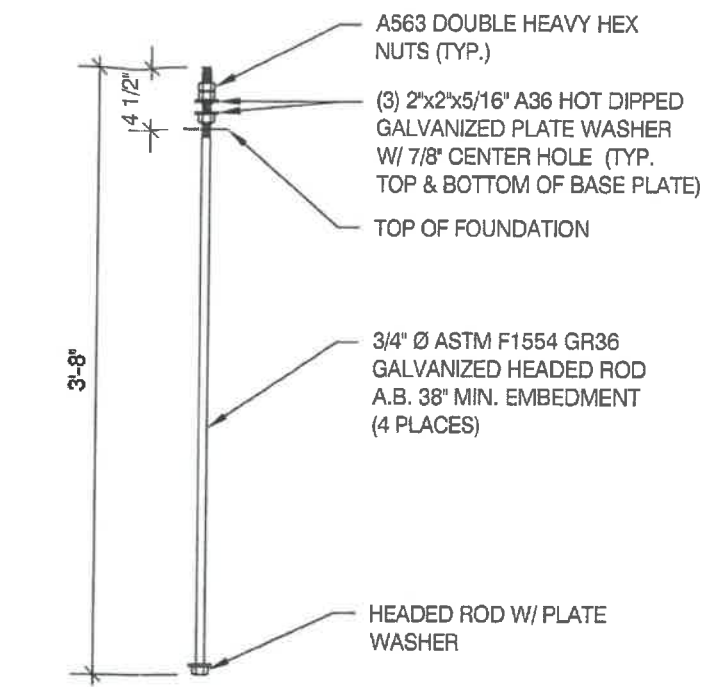
Menu Board Lane 1
Pre-Menu Board Lane 1



MENU BOARD FRONT ELEVATION W/ CAISSON FOUNDATION

SCALE: N.T.S.

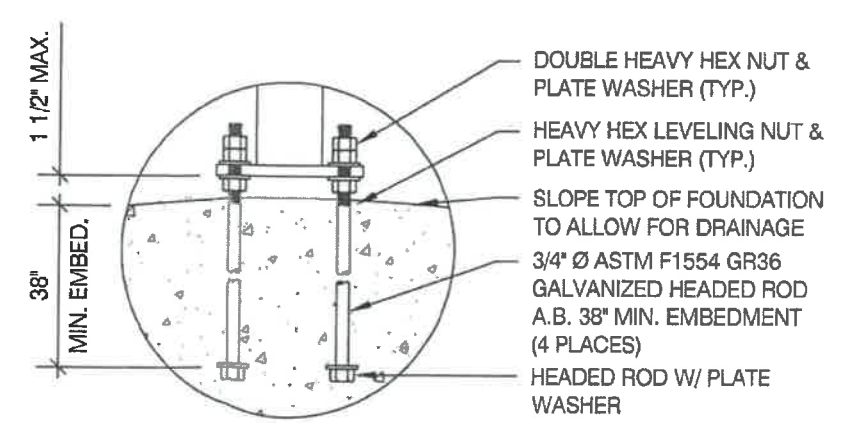
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ANCHOR BOLT DETAIL

SCALE: N.T.S.

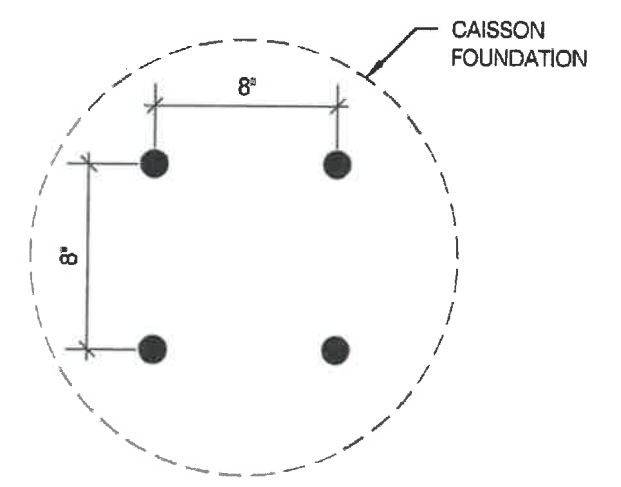
2



ANCHOR BOLT EMBEDMENT DETAIL

SCALE: N.T.S.

3



ANCHOR BOLT PATTERN

SCALE: N.T.S.

4

- * CLIENT - SITE ENHANCEMENT SERVICES
- * 2017 OHIO BUILDING CODE
- * 115 MPH WIND SPEED, EXP. C
- * (1) POLE, (1) FOOTING

- GENERAL NOTES:**
1. SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAIL AND DIMENSIONS.
 2. SIGN CABINET AND CONNECTION BY OTHERS.
 3. ANCHOR BOLTS, NUTS & WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM SIGN/LIGHTING MANUFACTURER.
 4. DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF THE POLE.

COATES MENU BOARD

MBI
 michael brady inc.
 ston engineering
 structural engineering

KNOXVILLE OFFICE
 299 WEISGARBER RD.
 KNOXVILLE, TENNESSEE
 37919
 PHONE 865-584-0999
 FAX 865-584-5213

PROJECT:
 DRAWING TITLE:
McDonald's

DRAWN BY: DSA
 CHECKED BY: FCM
 COMM. NO. 180089.011
COA #04657

DATE:	09/26/18	
REV. #	DATE	DRAWN BY

DRAWING NO.
DWG. 1

STATE OF OHIO
 DARREN SETH ANTLE
 E-78352
 REGISTERED PROFESSIONAL ENGINEER
 9/26/18

- * CLIENT - SITE ENHANCEMENT SERVICES
- * 2017 OHIO BUILDING CODE
- * 115 MPH WIND SPEED, EXP. C
- * (1) POLE, (1) FOOTING

WIND DATA				DEFLECTION ANALYSIS				
Building Code	2017 Ohio Building	Importance Factor, I	1.0	Damping Ratio, β	0.005		Deflection Limit	H/60
Wind Load Criteria	ASCE 7-10	Directionality Factor, K_d	0.85	Natural Frequency, n_1	9.17 Hz		Deflection at 0.7*W	0.06 in
Wind Speed, V	115 mph	Topography Factor, K_z	1.0	Gust Effect Factor, G	0.85		Deflection Ratio	H/1232
Exposure Category	C	Base Pressure, v_{fg}/K_z	17.3 psf	ASD Wind Load Factor, γ	0.6			
Wind Pressure Override per Jurisdiction Requirement	0 psf	Notes: (1) Loading values in chart below are based upon average K_z values for each segment. Actual values are calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only.						
		(2) Wind directionality (K_d) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The C_f value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation.						
		(3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, γ .						

GEOMETRY INPUT																				
Manumet: No																				
Section	Location	Type	Height	Width	Horiz. Offset	Area	Top Bev.	Centroid	K_z	C_f	Wind Press.	Support Pole Loads			Footing Loads					
			ft	ft	ft	sq ft	ft	ft			psf	Trib. Factor	Shear kips	Moment k-ft	Trib. Factor	Shear kips	Moment k-ft			
1	Base	Single Pole (Round)	0.25	2.00		0.5	0.3	0.1	0.85	0.78	9.7	1.0	0.0	0.0	1.0	0.0	0.0			
2		Single Pole (Not Round)	1.93	0.82		1.5	2.2	1.2	0.85	1.51	20.0	1.0	0.0	0.0	1.0	0.0	0.0			
3		Single Pole w/ Cabinet	4.14	4.83		20.0	5.3	4.2	0.85	1.65	20.6	1.0	0.4	1.7	1.0	0.4	1.7			
4		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0			
5		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0			
6		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0			
7		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0			
8		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0			
9		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0			
10	Top	None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0			
Overall Height:			6.31 ft			Summation based upon averages above:			0.4			1.8			0.4			1.8		
						Actual base reactions based upon V-M equations:			0.5			1.8			0.5			1.8		

SUPPORT POLE DESIGN SUMMARY																	
MATERIAL = STEEL																	
Base Elev. ft	Section	Axis	Required Strength Values (ASD)				Allowable Strength Values (ASD)				Unity Ratios			Interaction Ratios		Status	
			V_r	M_r	T_r	P_r	V_a	M_a	T_a	P_a	V_r/V_a	M_r/M_a	T_r/T_a	P_r/P_a	P-M		P-M-U-T
0.00	9.8" x 3.3" x 0.20" TUB	Weak	0.5	1.8	0.4	0.3	18.9	9.9	13.4	64.1	2.7%	18.0%	3.0%	0.5%	18.5%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.5	1.8	0.4	0.3	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓

ELEMENT DESIGN LOCATIONS, LOADS AND DISPLACEMENTS																	
Element	Elev. ft	Type	V_r	M_r	T_r	P_r	0.7* θ	0.7* δ	Element	Elev. ft	Type	V_r	M_r	T_r	P_r	0.7* θ	0.7* δ
			kips	kip-ft	kip-ft	kips	radians	in				kips	kip-ft	kip-ft	kips	radians	in
1	0.00	Base Plate	0.5	1.8	0.4	0.3	0.0	0.0	3	0.00	Match Plate 2	0.5	1.8	0.4	0.3	0.000	0.00
2	0.00	Match Plate 1	0.5	1.8	0.4	0.3	0.0	0.0	4	0.00	Torsion Tube	0.5	1.8	0.4	0.3	0.000	0.00

PLATE DESIGN SUMMARY															
Type	Plate Dimensions				Number	d_b	N_{edge}	B_{edge}	Circle Diameter	Material	Embed in Caisson / Vertical Slab	Embed in	Size	Weld Gusssets	Status
	N	B	D	t											
<input checked="" type="checkbox"/> Rectangular Base Plate					4	0.75				F1554 Grade 36	38	N/A	0.188	No	OK
<input type="checkbox"/> Circular Base Plate															
<input type="checkbox"/> Match Plate 1 (Lower)															
<input type="checkbox"/> Match Plate 1 (Upper)															
<input type="checkbox"/> Match Plate 2 (Lower)															
<input type="checkbox"/> Match Plate 2 (Upper)															

FOUNDATION DESIGN SUMMARY									
Type	Diameter	Width	Thickness	Length	Depth	Volume	Reinforcing	Status	Allowable Soil Pressure
	ft	ft	ft	ft	ft	cy			psf/ft
<input checked="" type="checkbox"/> Caisson	2.00	-	-	-	4.75	0.55	(6) #6 Vert. w/ #3 Ties @ 12 in o.c. and (6) @ 4 in o.c. Top	OK	200 psf/ft
<input type="checkbox"/> Vertical Slab									
<input type="checkbox"/> Spread									

- GENERAL NOTES:**
- SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAIL AND DIMENSIONS.
 - SIGN CABINET AND CONNECTION BY OTHERS.
 - ANCHOR BOLTS, NUTS & WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM SIGN/LIGHTING MANUFACTURER.
 - DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF THE POLE.

COATES MENU BOARD



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 michael brady inc.
 sign engineering
 structural engineering

KNOXVILLE OFFICE
 299 WEISGARBER RD.
 KNOXVILLE, TENNESSEE
 37919
 PHONE 865-584-0999
 FAX 865-584-5213

PROJECT:
 - - - - -

DRAWING TITLE:
McDonald's

DRAWN BY: DSA
 CHECKED BY: FCM
 COMM. NO. 180089.011
 DATE: 09/26/18
 COA #04657

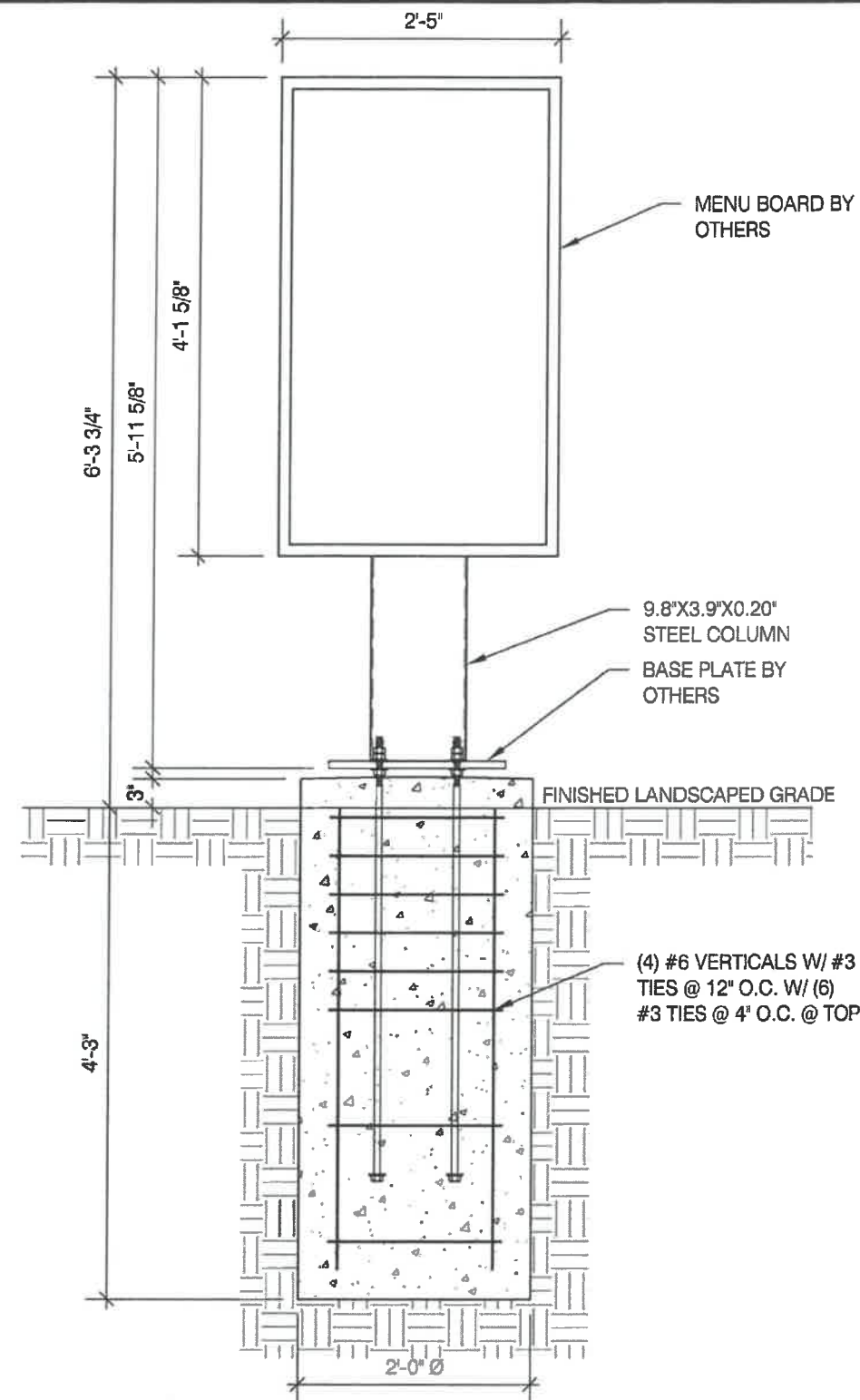
REV. #	DATE	DRAWN BY

DRAWING NO. DWG. **2**

* CLIENT - SITE ENHANCEMENT SERVICES
 * 2017 OHIO BUILDING CODE
 * 115 MPH WIND SPEED, EXP. C
 * (1) POLE, (1) FOOTING

GENERAL NOTES:

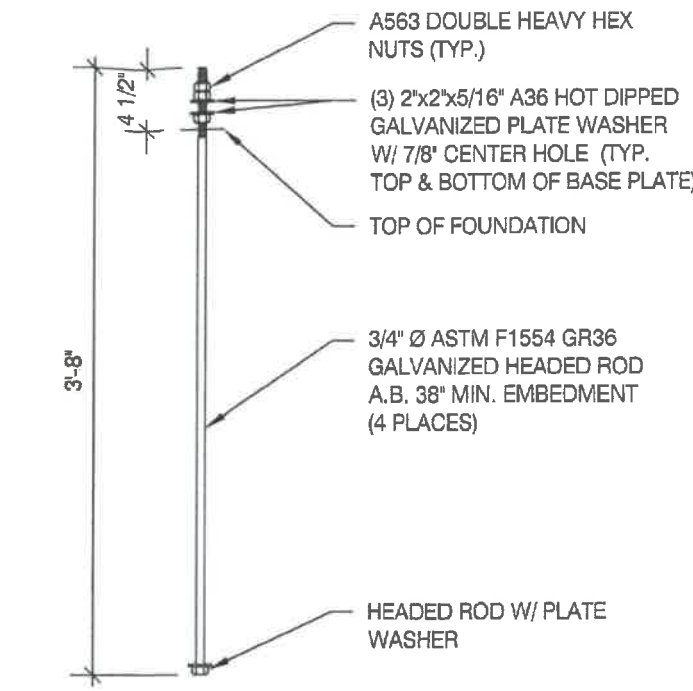
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4. DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF THE POLE.



STRATACACHE PRESELL BOARD FRONT ELEVATION W/ CAISSON FOUNDATION

SCALE: N.T.S.

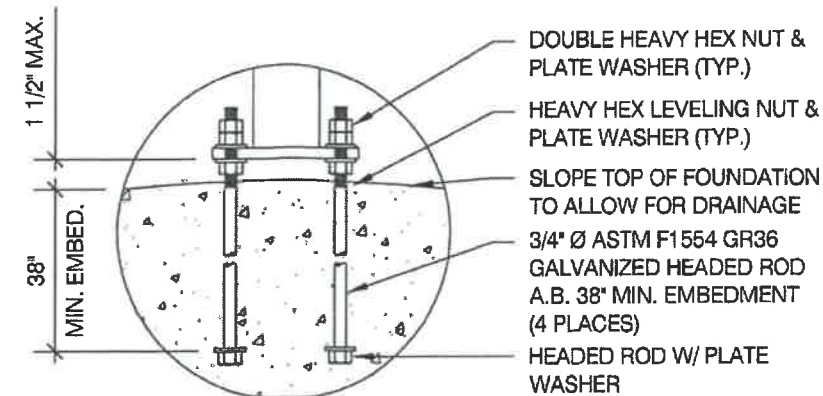
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ANCHOR BOLT DETAIL

SCALE: N.T.S.

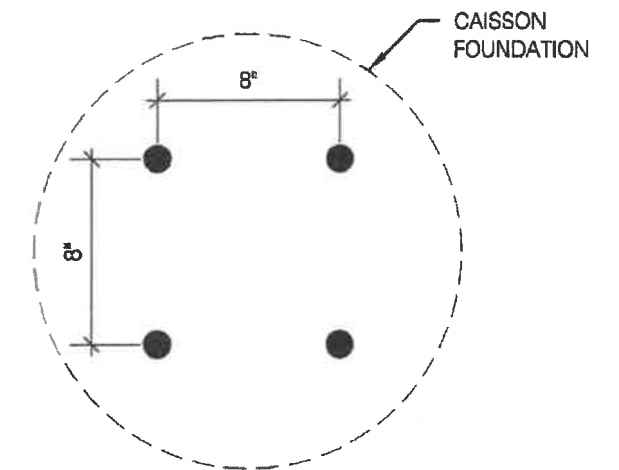
2



ANCHOR BOLT EMBEDMENT DETAIL

SCALE: N.T.S.

3



ANCHOR BOLT PATTERN

SCALE: N.T.S.

4

**COATES
PRESELL BOARD**

MBI
michael brady inc.
sign engineering
structural engineering

KNOXVILLE OFFICE
299 WEISGARBER RD.
KNOXVILLE, TENNESSEE
37919
PHONE 865-584-0999
FAX 865-584-5213

PROJECT:

DRAWING TITLE:

McDonald's

DRAWN BY:
DSA

CHECKED BY:
FCM

COMM. NO.
180089.011

DATE:
09/26/18

DRAWING NO.
DWG.

3

COA #04657

REV. #	DATE	DRAWN BY



- * CLIENT - SITE ENHANCEMENT SERVICES
- * 2017 OHIO BUILDING CODE
- * 115 MPH WIND SPEED, EXP. C
- * (1) POLE, (1) FOOTING

WIND DATA				DEFLECTION ANALYSIS				
Building Code	2017 Ohio Building	Importance Factor, I	1.0	Damping Ratio, β	0.005		Deflection Limit	H/60
Wind Load Criteria	ASCE 7-10	Directionality Factor, K_d	0.85	Natural Frequency, n_1	11.26 Hz		Deflection at 0.7*W	0.03 in
Wind Speed, V	115 mph	Topography Factor, K_z	1.0	Gust Effect Factor, G	0.85		Deflection Ratio	H/2387
Exposure Category	C	Base Pressure, $q/(K_z)$	17.3 psf	ASD Wind Load Factor, γ	0.6			
Wind Pressure Override per Jurisdiction Requirement	0 psf	Notes: (1) Loading values in chart below are based upon average K_z values for each segment. Actual values are calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only. (2) Wind directionality (K_d) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The C_f value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation. (3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, γ .						

GEOMETRY INPUT (1)																	
No. of Poles		Monument: No															
1		1															
Section	Location	Type	Height	Width	Horiz. Offset	Area	Top Elev.	Centroid	K_z	C_f	Wind Press.	Support Pole Loads			Footing Loads		
			ft	ft	ft							sq ft	ft	ft	psf	Factor	Shear kips
1	Base	Single Pole (Round)	0.25	2.00		0.5	0.3	0.1	0.85	0.78	9.7	1.0	0.0	0.0	1.0	0.0	0.0
2		Single Pole (Not Round)	1.93	0.82		1.6	2.2	1.2	0.85	1.61	20.0	1.0	0.0	0.0	1.0	0.0	0.0
3		Single Pole w/ Cabinet	4.14	2.42		10.0	6.3	4.2	0.85	1.69	21.1	1.0	0.2	0.9	1.0	0.2	0.9
4		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
5		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
6		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
7		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
8		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
9		None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
10	Top	None				0.0	6.3	6.3	0.85	1.46	18.2	0.0	0.0	0.0	0.0	0.0	0.0
Overall Height:			6.31 ft			Summation based upon averages above:						0.2	0.9	0.2	0.9		
						Actual base reactions based upon V-M equations:						0.2	0.9	0.2	0.9		

SUPPORT POLE DESIGN SUMMARY																	
MATERIAL = STEEL																	
Base Elev. ft	Section	Axis	Required Strength Values (ASD)				Allowable Strength Values (ASD)				Unity Ratios			Interaction Ratios		Status	
			V_r kips	M_r kip-ft	T_r kip-ft	P_r kips	V_a kips	M_a kip-ft	T_a kip-ft	P_a kips	V_r/V_c	M_r/M_c	T_r/T_c	P_r/P_c	P-M		P-M-V-T
0.00	9.8" x 3.9" x 0.20" TUBE	Weak	0.2	0.9	0.1	0.2	16.9	9.9	13.4	64.1	1.5%	9.4%	0.8%	0.3%	9.7%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓
0.00	None	Strong	0.2	0.9	0.1	0.2	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	✓

ELEMENT DESIGN LOCATIONS, LOADS AND DISPLACEMENTS																	
Element	Elev. ft	Type	V_r kips	M_r kip-ft	T_r kip-ft	P_r kips	0.7* θ radians	0.7* δ in	Element	Elev. ft	Type	V_r kips	M_r kip-ft	T_r kip-ft	P_r kips	0.7* θ radians	0.7* δ in
1	0.00	Base Plate	0.2	0.9	0.1	0.2	0.0	0.0	3	0.00	Match Plate 2	0.2	0.9	0.1	0.2	0.000	0.00
2	0.00	Match Plate 1	0.2	0.9	0.1	0.2	0.0	0.0	4	0.00	Torsion Tube	0.2	0.9	0.1	0.2	0.000	0.00

PLATE DESIGN SUMMARY																
Type	Plate Dimensions					Number	d_s in	N_{edge} in	B_{edge} in	Circle Diameter in	Material	Embed in Calsson / Vertical Slab in	Embed in in	Size in	Gussets	Status
	N in	B in	D in	t in												
<input checked="" type="checkbox"/> Rectangular Base Plate						4	0.75			--	F1554 Grade 36	38	N/A	0.188	No	OK
<input type="checkbox"/> Circular Base Plate																
<input type="checkbox"/> Match Plate 1 (Lower)																
<input type="checkbox"/> Match Plate 1 (Upper)																
<input type="checkbox"/> Match Plate 2 (Lower)																
<input type="checkbox"/> Match Plate 2 (Upper)																

FOUNDATION DESIGN SUMMARY										
Type	Diameter ft	Width ft	Thickness ft	Length ft	Depth ft	Volume CY	Reinforcing		Status	Allowable Soil Pressure
<input checked="" type="checkbox"/> Calsson	2.00	--	--	--	4.25	0.49	(4) #6 Vert. w/ #3 Ties @ 12 in o.c. and (6) @ 4 in o.c. Top		OK	200 psf/ft
<input type="checkbox"/> Vertical Slab										
<input type="checkbox"/> Spread										

- GENERAL NOTES:**
- SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAIL AND DIMENSIONS.
 - SIGN CABINET AND CONNECTION BY OTHERS.
 - ANCHOR BOLTS, NUTS & WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM SIGN/LIGHTING MANUFACTURER.
 - DO NOT CUT ANCHOR BOLTS AFTER INSTALLATION OF THE POLE.

COATES
PRESELL BOARD



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FREE STANDING SIGN SPECIFICATIONS:

REFER TO SIGN COMPANY'S DRAWINGS FOR MORE DETAILS.
ALL DESIGNS, DETAILING FABRICATION AND CONSTRUCTION SHALL CONFORM TO:

- 2017 OHIO BUILDING CODE
- 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)
 STEEL PIPE SECTION (> 20" Ø): ASTM A252 GRADE 3 (Fy=42 KSI MIN.)
 HSS ROUND SECTION: ASTM A500 GRADE B (Fy=42 KSI)
 HSS SQUARE/RECTANGULAR SECTION: ASTM A500 GRADE B (Fy=46 KSI)
 ANCHOR BOLTS: ASTM F1554 GRADE 36 U.N.O. (ALTERNATES GRADE 55 & 105)
 CONNECTION BOLTS: ASTM A325
 STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES & PLATES ASTM A36
 REINFORCING: GRADE 60 ASTM A615
 PROVIDE A MINIMUM OF THREE INCHES OF CONCRETE COVER OVER EMBEDDED STEEL.
 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.
 WELDING ELECTRODES: E70XX
 ALLOWABLE SOIL BEARING PRESSURE ASSUMED: 1500 PSF
 ASSUMED HORIZONTAL (PASSIVE PRESSURE) ASSUMED AT 100 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.
 ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH.
 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.
 EXCAVATION SHALL BE FREE OF LOOSE SOIL BEFORE POURING CONCRETE.
 WELDERS SHALL BE CERTIFIED FOR THE TYPE OF WELDING.
 ADEQUATELY BRACE POLE(S) UNTIL CONCRETE HAS SET UP FOR 14 DAYS.
 THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF DIMENSIONS FURNISHED BY OTHERS.
 ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION.
 THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND SHOULD NOT BE USED AT OTHER LOCATIONS WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
 DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN, BY OTHERS.

- * CLIENT - SITE ENHANCEMENT SERVICES
- * 2017 OHIO BUILDING CODE
- * 115 MPH WIND SPEED, EXP. C

GENERAL NOTES:

1. SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAIL AND DIMENSIONS.
2. SIGN CABINET AND CONNECTION BY SITE ENHANCEMENT SERVICES.



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 NOTES

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