

Special School Board Meeting
Tuesday, February 18, 2020 5:00 PM Eastern

Middle School Media Center
420 Ypsilanti St.
Dundee, MI 48131

I.	Roll Call: _____ Josh Brink Gizzi _____ John Imo _____ Teresa Marino _____ Kathryn Thompson _____ Brad Viers
II.	Pledge of Allegiance
III.	Committee of the Whole
	III.A. Athletic Complex Bids
IV.	Agenda
	IV.A. Approval of February 18, 2020 Agenda Motion by Member: _____ Seconded by Member: _____ Discussion: _____ Motion Passed/Failed: _____
V.	Consent Agenda Approval of February 10, 2020 Regular Meeting Minutes Motion by Member: _____ Seconded by Member: _____ Discussion: _____ Motion Passed/Failed: _____
VI.	Public Comments <i>Public comment is provided at both the beginning and at the end of the Board meeting. The purpose of public comment is to provide an opportunity for a member of the public to speak. The role of the board is to listen attentively, and we thank you in advance for sharing your thoughts and ideas.</i> » <i>All members of the public that speak during "Public Comment" will need to state their name.</i> » <i>Note cards will be available for contact information.</i> » <i>We have designated up to 5 minutes per person, for each topic presented.</i> » <i>The Board's role is to listen to the care and concerns of the community.</i> » <i>The Superintendent, or designee, will follow up concerning the comments as soon as possible.</i> <i>Please contact the Superintendent's office if you have any additional questions.</i>
VII.	New Business
	VII.A. Athletic Complex Bids Suggested Motion: To authorize Mr. Manuszak to accept the athletic complex bids as recommended. Motion by Member: _____ Seconded by Member: _____ Discussion: _____ Motion Passed: _____
VIII.	Public Comment
IX.	Superintendent
X.	Board Comments

XI. Closed Session for the purpose of discussing privileged written attorney/client communication.

Motion by Member:

Seconded by Member:

Discussion:

Motion Passed:

XII. Return to Open Session Time: _____

XIII. Adjournment

Motion by Member:

Seconded by Member:

Motion Passed:

Time:



February 7, 2020

Executive Offices

Executive One Building
4835 Towne Centre Road
Suite 203
Saginaw, MI 48604

Phone: (989) 790-9120
Fax: (989) 790-9063

**Corporate Services
Field Operations
Professional Services
Human Resources**

1494 North Graham Road
Freeland, MI 48623

Phone: (989) 790-9120
Fax: (989) 781-0748

www.wolgastcorporation.com

Mr. Edward Manuszak II, Superintendent
Dundee Community Schools
420 Ypsilanti St.
Dundee, MI 48131

Re: John D. Craig & Family Athletic Center – Stadium Project

Mr. Manuszak,

Wolgast Corporation submits this report on the bid results for the John D. Craig & Family Athletic Center – Stadium Project. This report includes information regarding contractor solicitation activity, bidder response, apparent low bid and bid analysis.

1. Bid Solicitation Activity

- a. As identified per the Wolgast Initial Contact List (the numbers in parenthesis represent the number of plan holders, as indicated on the Plan Holders List), Wolgast Corporation solicited 69 (3) concrete contractors, 47 (2) masonry contractors, 43 metals contractors, 66 (2) general trades contractors, 76 (4) roofing contractors, 37 painting contractors, 27 (4) food service contractors, 12 (4) bleacher & press box contractors, 103 (3) plumbing and HVAC systems contractors, 125 (6) electrical contractors, 125 (4) athletic field lighting contractors, 105 (6) site work contractors, 45 (3) asphalt paving contractors, & 7 (3) synthetic turf contractors. All totaling 887 bidders invited, with 44 plan holders. In addition, 304 invites were sent to blue book. Both the Initial Contact and Plan Holders Lists can be provided upon request.

2. Bidder Response

- a. As recorded on the attached Bid Tab Report, (0) concrete contractors (2) masonry contractors, (0) metals contractors, (2) general trades contractors, (2) roofing contractors, (0) painting contractors, (1) food services contractor, (2) bleachers & press box contractors, (5) Plumbing & HVAC systems contractors, (6) electrical contractors, (4) athletic lighting contractors, (1) site work contractor, (2) asphalt paving contractors, & (6) synthetic turf contractors all totaling 33 contractors submitted bids for the project.
- b. Bids were received until 10:00 am, on Thursday, February 30th, 2020.
- c. Bids were opened and read aloud publicly at Dundee Community Schools Middle School Library at 10:05 am on February 30th, 2020.

3. Apparent Low Bids



- a. The apparent low qualified bidders are identified on the attached Bid Tab Reports. Please refer to the Qualifications section below for additional information.

4. Bid Analysis

- a. Post-Bid Interviews were conducted with 13 bidders.
- b. We didn't received any bids in the Concrete, Metals, or Painting divisions. Wolgast solicited quotes from several additional vendors in each of missing division. Results:
 - i. Krieghoff-Lewnawee provided quotes for metal, concrete, and painting.
 - ii. Lenco Painting provided a painting quote.
 - iii. Ram construction was going provide a concrete number and later declined.
- c. Wolgast has written the attached recommendation reflecting hard numbers we have today, as timing is very critical for approval. However, we are still waiting on a few additional numbers in all missing divisions.
- d. The other low bidders that were interviewed were found to be responsive and included the design scope of work, this bidders are listed on the award recommendation.
- e. The construction estimate for this project is \$3,016,056.01. The bids and quotes totaled \$2,956,644.00 which is \$59,412 below the estimate. However, the award recommendation is over the district's budget of \$2,500,000.00 by \$456,644.00. The recommendation total of \$2,956,644.00 does not include any alternates or any potential deducts that are included on the attached cost analysis. The district can use this to aid decision making before contract execution.

6. Recommendations:

Wolgast Corporation has provided an award recommendation list of the lowest qualified bidders for the John D. Craig & Family Athletic Center – Stadium Project. The recommendations include performance and labor and material (PL&M) bond amounts for all of the contractors.

- a. The current total award recommendation for this project is **\$2,956,644.00** which does **not** included any available deducts, alternates, the scoreboard, DTE fees, contingency, administrative costs, CM fees, or Architect fees.

If I can be of any further service to you, please do not hesitate to contact me.

Sincerely,



Richard A. Groves, CFM
Project Manager, CM Division
Wolgast Corporation

Enclosures:

Award Recommendation
Bid Tabulation Sheet
Cost Analysis

CC: Jeff Bates
Jason Nolff

Dundee Community Schools - 2020 John D Craig & Family Athletic Complex Project January 30, 2020						BASE BID	BOND	BASE & BOND TOTAL	APPARENT LOW BID	Alt. #1	Alt. #2
	Bid Bond	Familiar Affidavit	Iran Affidavit	Addendum #1	Addendum #2				030100 - Concrete		
030100 - Concrete						No Bids received this was a solicited quote			\$ 237,960.00		
Krieghoff-Lewnawee	x	x	x	x	x	\$ 235,618.00	\$ 2,342.00	\$ 237,960.00		\$ 31,179.00	\$ 11,901.00
									040000 - Masonry		
040000 - Masonry						No Bids received this was a solicited quote			\$ 143,448.00		
HMC Mason Contractors	x	x	x	x	x	\$ 182,950.00	\$ 2,900.00	\$ 185,850.00			
Spieker Company	x	x	x	x	x						
J&J construction Company	x	x	x	x	x	\$ 141,048.00	\$ 2,400.00	\$ 143,448.00			
									050000 - Metals		
050000 - Metals						No Bids received this was a solicited quote			\$ 36,507.00		
Krieghoff-Lewnawee	x	x	x	x	x	\$ 36,146.00	\$ 361.00	\$ 36,507.00			
									060000 - General Trades		
060000 - General Trades						No Bids received this was a solicited quote			\$ 229,270.00		
Krieghoff-Lewnawee	x	x	x	x	x	\$ 227,000.00	\$ 2,270.00	\$ 229,270.00			\$ 30,205.00
Spieker Company	x	x	x	x	x	\$ 233,600.00	\$ 2,000.00	\$ 235,600.00			\$ 34,650.00
									075000 - Roofing		
075000 - Roofing						No Bids received this was a solicited quote			\$ 69,527.00		
M.W. Morss Roofing											
Quality Roofing											
William Molnar Roofing											
Inovative sheet metals.	x	x	x	x		\$ 67,700.00	\$ 1,827.00	\$ 69,527.00			

<i>Dundee Community Schools - 2020 John D Craig & Family Athletic Complex Project January 30, 2020</i>	Bid Bond	Familial Affidavit	Iran Affidavit	Addendum #1	Addendum #2	BASE BID	BOND	BASE & BOND TOTAL	APPARENT LOW BID	Alt. #1	Alt. #2
CASS metals	x	x	x	x	x	\$ 68,800.00	\$ 1,400.00	\$ 70,200.00			
									099000 - Painting		
099000 - Painting	No Bids received this was a solicited quote									\$ 18,081.00	
Lenco Painting	x	x	x	x	x	\$ 17,900.00	\$ 181.00	\$ 18,081.00			
									114000 - Food Service Equipment		
114000 - Food Service Equipment										\$ 64,446.00	
Great Lakes Hotel Supply	x	x	x	x	x	\$ 63,998.00	\$ 448.00	\$ 64,446.00			
Stafford Smith											
									133400 - Bleachers & Press Box		
133400 - Bleachers & Press Box										\$ 544,238.00	
E & D Specialty Stands											
GT Grandstands											
Southern Bleacher	x	x	x	x	x	\$ 590,000.00	\$ 3,385.00	\$ 593,385.00			
Sturdisteel Company	x	x	x	x	x	\$ 538,838.00	\$ 5,400.00	\$ 544,238.00			
									222300 - Plumbing & HVAC Systems		
222300 - Plumbing & HVAC Systems										\$ 165,320.00	
R.A. Rush	x	x	x	x	x	\$ 162,440.00	\$ 2,880.00	\$ 165,320.00			
Monroe Plumbing & Heating	x	x	x	x	x	\$ 167,000.00	\$ 1,500.00	\$ 168,500.00			
Adrian Mechanical	x	x	x	x	x	\$ 206,000.00	\$ 2,100.00	\$ 208,100.00			
LJ roll reffridgeration		x	x	x	x	\$ 26,000.00	\$ 950.00	\$ 26,950.00			

Dundee Community Schools - 2020 John D Craig & Family Athletic Complex Project January 30, 2020	Bid Bond	Familiar Affidavit	Iran Affidavit	Addendum #1	Addendum #2	BASE BID	BOND	BASE & BOND TOTAL	APPARENT LOW BID	Alt. #1	Alt. #2
Dimech Services	x	x	x	x	x	\$ 218,000.00	\$ 1,962.00	\$ 219,962.00			
									260000 - Electrical		
260000 - Electrical									\$ 195,900.00		
Brint Electric	x	x	x	x	x	\$ 193,770.00	\$ 2,130.00	\$ 195,900.00			
J. Ranck Electric	x	x	x	x	x	\$ 295,460.00	\$ 2,955.00	\$ 298,415.00			
Regent Electric											
Romanoff Electric	x	x	x	x	x	\$ 552,536.00	\$ 4,881.00	\$ 557,417.00			
Laibe electric Company	x	x	x	x	x	\$ 644,175.00	\$ 5,798.00	\$ 649,973.00			
Glic Electrical	x	x	x	x	x	\$ 596,026.00	\$ 11,920.00	\$ 607,946.00			
Jac LED	x	x	x	x	x	\$ 255,529.00	\$ 7,903.00	\$ 263,432.00			
									265000 - Athletic Field Lighting		
265000 - Athletic Field Lighting									\$ 289,500.00		
Airport Lighting	x	x	x	x	x	\$ 319,950.00	\$ 3,199.00	\$ 323,149.00			
J. Ranck Electric	x	x	x	x	x	\$ 338,665.00	\$ 3,047.00	\$ 341,712.00			
Rauhorn Electric											
Brint Electric	x	x	x	x	x	\$ 286,350.00	\$ 3,150.00	\$ 289,500.00			
Jac LED	x	x	x	x	x	\$ 394,547.00	\$ 12,202.00	\$ 406,749.00			
									310000 - Site Work		
310000 - Site Work									\$ 273,517.00		
Diversified Excavating											
Fessler & Bowman											
Lake Michigan Site Development											
S & H Trucking & Excavating											
Slusarski Excavating & Paving											
Salenbien Trucking and Excavating	x	x	x	x	x	\$ 271,017.00	\$ 2,500.00	\$ 273,517.00	\$ 63,800.00		
									321200 - Asphalt Paving		
321200 - Asphalt Paving									\$ 86,000.00		

<i>Dundee Community Schools - 2020 John D Craig & Family Athletic Complex Project January 30, 2020</i>	Bid Bond	Familiar Affidavit	Iran Affidavit	Addendum #1	Addendum #2	BASE BID	BOND	BASE & BOND TOTAL	APPARENT LOW BID	Alt. #1	Alt. #2
ASI Paving											
Nagle Paving Company	x	x	x	x	x	\$ 123,890.00	\$ 1,000.00	\$ 124,890.00			
Slusarski Excavating & Paving											
Asphalt Specialist inc.	x	x	x	x	x	\$ 85,000.00	\$ 1,000.00	\$ 86,000.00			
								321810 - Synthetic Turf			
321810 - Synthetic Turf								\$ 602,930.00			
A-Turf inc	x	x	x	x	x	\$ 834,400.00	\$ 6,260.00	\$ 840,660.00			
AstroTurf	x	x	x	x	x	\$ 665,880.00	\$ 6,052.00	\$ 671,932.00			
Sprinturf	x	x	x	x	x	\$ 636,000.00	\$ 6,100.00	\$ 642,100.00			
Playing Surface Solution	x	x	x	x	x	\$ 722,350.00	\$ 22,500.00	\$ 744,850.00			
Maumee Bay and Turf	x	x	x	x	x	\$ 595,000.00	\$ 7,930.00	\$ 602,930.00			
tpk inc	x	x	x	x	x	\$ 696,600.00	\$ 12,700.00	\$ 709,300.00			
Shaw	x	x	x	x	x						
TOTAL - APPARENT LOW BIDS									\$ 2,956,644.00		



**Dundee Community Schools
2020 John D. Craig & Family Athletic Complex
Contract Award Recommendations**

Dundee Community Schools received sealed bids on January 30, 2020 for the 2020 John D. Craig & Family Athletic Complex. Wolgast Corporation has reviewed each of the bids and interviewed the low bidders. Wolgast Corporation recommends the following contractors for the award of contracts and described amounts.

The Owner reserves the right to reject any or all proposals, accept a bid other than the low bid and to waive the informalities and /or errors in the bid, which they feel to be in their own best interest.

		2020 John D. Craig & Family Athletic Complex	
Bid Division	Contractor Name/Address		
030100 Concrete	Krieghoff-Lenawee Company	Base Bid	\$ 235,618.00
	2039 James St.	Bond	\$ 2,342.00
	Adrian, MI 49221	Total	\$ 237,960.00
	Phone: (517) 265-5121 Fax: (517) 263-8387		
040000 Masonry	J & J Construction Company	Base Bid	\$ 141,048.00
	7135 Dan McGuire Drive	Bond	\$ 2,400.00
	Brighton, MI 48116	Total	\$ 143,448.00
	Phone: (248) 437-7700 Fax: (248) 437-6435		
050000 Metals	Krieghoff-Lenawee Company	Base Bid	\$ 36,146.00
	2039 James St.	Bond	\$ 361.00
	Adrian, MI 49221	Total	\$ 36,507.00
	Phone: (517) 265-5121 Fax: (517) 263-8387		
060000 General Trades	Krieghoff-Lenawee Company	Base Bid	\$ 227,000.00
	2039 James St.	Bond	\$ 2,270.00
	Adrian, MI 49221	Total	\$ 229,270.00
	Phone: (517) 265-5121 Fax: (517) 263-8387		
075000 Roofing	Innovative Sheet Metals	Base Bid	\$ 67,700.00
	1681 S. Wolf Lake Rd.	Bond	\$ 1,827.00
	Muskegon, MI 49442	Total	\$ 69,527.00
	Phone: (231) 788-5751 Fax: N/A		
099000 Painting	Lenco Painting Inc.	Base Bid	\$ 17,900.00
	330 Mulzer Ave.	Bond	\$ 181.00
	Adrian, MI 49286	Total	\$ 18,081.00
	Phone: (517) 263-0539 Fax: (517) 263-0869		
114000 Food Service Equipment	Great Lakes Hotel Supply Company	Base Bid	\$ 63,998.00
	24101 W. Nine Mile Road	Bond	\$ 448.00
	Southfield, MI 48033	Total	\$ 64,446.00
	Phone: (248) 286-8064 Fax: (313) 962-1317		

133400	Sturdisteel Company	Base Bid	\$	538,838.00
Bleachers & Press Box	PO Box 2655	Bond	\$	5,400.00
	Waco, TX 76702	Total	\$	544,238.00
	Phone: (800) 433-3116			
	Fax: (254) 666-4472			
222300	R.A. Rush Plumbing and Heating Co. Inc.	Base Bid	\$	162,440.00
Plumbing & HVAC	6880 Sylvania - Petersburg Rd.	Bond	\$	2,880.00
Systems	Ottawa Lake, MI 49267	Total	\$	165,320.00
	Phone: (734) 856-2489			
	Fax: (734) 854-3688			
260000	Brint Electric	Base Bid	\$	193,770.00
Electrical	121 N. Tecumseh St.	Bond	\$	2,130.00
	Adrian, MI 49221	Total	\$	195,900.00
	Phone: (517) 263-4840			
	Fax: N/A			
265000	Brint Electric	Base Bid	\$	286,350.00
Athletic Field Lighting	121 N. Tecumseh St.	Bond	\$	3,150.00
	Adrian, MI 49221	Total	\$	289,500.00
	Phone: (517) 263-4840			
	Fax: N/A			
310000	Salenbien Trucking and Excavating, Inc.	Base Bid	\$	271,017.00
Site Work	9217 Ann Arbor Rd.	Bond	\$	2,500.00
	Dundee, MI 48131	Total	\$	273,517.00
	Phone: (734) 529-3823			
	Fax: (734) 529-3848			
321200	Asphalt Specialists, Inc.	Base Bid	\$	85,000.00
Asphalt Paving	1780 E. Highwood	Bond	\$	1,000.00
	Pontiac, MI 48340	Total	\$	86,000.00
	Phone: (248) 334-4570			
	Fax: (248) 334-0134			
321810	Maumee Bay Turf Center	Base Bid	\$	595,000.00
Synthetic Turf	4630 Navarre Ave.	Bond	\$	7,930.00
	Oregon, OH 43616	Total	\$	602,930.00
	Phone: (419) 350-1495			
	Fax: (419) 932-6743			
Total Contracts			\$	2,956,644.00

John D. Craig & Family Athletic Complex Cost Analysis									
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Division	Contractor	Total base cost	Alternate 1 Additional pole vault and long jump	Totals w/alt. 1	Alternate 2	Total w/alt. 2	Addendum #1	Total w/Addendum	Total w/alternates and addendums	Deducts/adds	Total with deducts/adds	Deduct descriptions
					Sail Shade		Insulated masonry block					
Concrete	Krieghoff - Lenawee	\$237,960.00										
			\$31,179.00	\$269,139.00	\$11,901.00	\$249,861.00	\$0.00	\$237,960.00	\$281,040.00	\$0.00	\$0.00	No deducts for Concrete
Masonry	J&J Construction	\$143,448.00	\$0.00	\$143,448.00	\$0.00	\$143,448.00	\$9,923.00	\$153,371.00	\$153,371.00	\$0.00	\$0.00	No deducts for Masonry
Metals	Krieghoff - Lenawee	\$36,507.00	\$0.00	\$36,507.00	\$0.00	\$36,507.00	\$0.00	\$36,507.00	\$36,507.00	\$0.00	\$0.00	No deducts for Metals
General trades	Krieghoff - Lenawee	\$229,270.00	\$0.00	\$229,270.00	\$30,205.00	\$259,475.00	\$0.00	\$259,475.00	\$259,475.00	\$0.00	\$0.00	No deducts for General Trades
Roofing	Innovative Sheet Metals	\$69,527.00	\$0.00	\$69,527.00	\$0.00	\$69,527.00	\$0.00	\$69,527.00	\$69,527.00	\$0.00	\$0.00	No deducts for Roofing
Painting	Lenco Painting	\$18,081.00	\$0.00	\$18,081.00	\$0.00	\$18,081.00	\$0.00	\$18,081.00	\$18,081.00			
										-\$1,500.00	\$16,581.00	Remove painting bleacher risers blue from scope
										-\$1,400.00	\$16,681.00	Use latex paint instead of epoxy on walls
										-\$550.00	\$17,531.00	Use latex paint instead of epoxy on cielings
									-\$2,800.00	\$15,281.00	Remove sealing concrete floors from scope	
Food service	Greatl lakes Hotel Equip	\$64,446.00	\$0.00	\$64,446.00	\$0.00	\$64,446.00	\$0.00	\$64,446.00	\$64,446.00	\$0.00	\$0.00	Option to self purchase equipment
Bleachers/Press	Sturdisteel company	\$544,238.00	\$0.00	\$544,238.00	\$0.00	\$544,238.00	\$0.00	\$544,238.00	\$544,238.00	\$0.00	\$0.00	No deducts for Bleachers & Press Box
Mechanical	RA Rush	\$165,320.00	\$0.00	\$165,320.00	\$0.00	\$165,320.00	\$0.00	\$165,320.00	\$165,320.00	\$0.00	\$0.00	No deducts for Mechanical
Electrical	Brint Electric	\$195,900.00	\$0.00	\$195,900.00	\$0.00	\$195,900.00	\$0.00	\$195,900.00	\$195,900.00	\$0.00	\$0.00	No deducts for Electrical
Athletic Lighting	Brint Electric	\$289,500.00	\$0.00	\$289,500.00	\$0.00	\$289,500.00	\$0.00	\$289,500.00	\$289,500.00	\$0.00	\$0.00	No deducts for Athletic Lighting
Site Work	Salenbien Excavating	\$273,517.00	\$63,800.00	\$337,317.00	\$0.00	\$273,517.00	\$0.00	\$273,517.00	\$337,317.00			
										\$28,000.00	\$301,517.00	Adder for installing brick pavers furnished by owners
										-\$1,500.00	\$272,017.00	Delete temporary fencing around bleachers
												Change pole/long jump track material to black mat instead
										-\$1,000.00	\$272,517.00	of red spray
										-\$2,000.00	\$271,517.00	Change wrought iron gate to painted steel gate
										-\$2,200.00	\$271,317.00	Remove all arborvites from scope of work/landscaping
												Change long/pole vault from Nyloplast inlets to NDS
		12"x12" would need architects approval!										
		-\$6,000.00	\$267,517.00	Change entire design of drainage for pole vault and long								
									-\$10,500.00	\$263,017.00	jump would need architects approval!	
Asphalt	Asphalt Specialists	\$86,000.00	\$0.00	\$86,000.00	\$0.00	\$86,000.00	\$0.00	\$86,000.00	\$86,000.00			
												Removal of asphalt from North home bleachers to North
										-\$12,000.00	\$74,000.00	visitor bleachers around the North end of track.
Synthetic Turf	Maumee Bay Turf Center	\$602,930.00	\$0.00	\$602,930.00	\$0.00	\$602,930.00	\$0.00	\$602,930.00	\$602,930.00	\$0.00	\$602,930.00	No deducts for Turf
Totals		\$2,956,644.00	\$94,979.00	\$3,051,623.00	\$42,106.00	\$2,998,750.00	\$9,923.00	\$2,996,772.00	\$3,103,652.00	-\$13,450.00		
Award recommendation												
Arch Costs												
Concrete		\$4,000.00	← Estimated concrete didn't break out									
masonry		\$35,124.00										
Metals		\$4,000.00										
General		\$2,850.00										
Total		\$45,974.00										



**Dundee Community Schools
Counties of Monroe and Lenawee
SCHOOL BUILDING AND SITE BONDS
LIMITED TAX GENERAL OBLIGATION**

SUMMARY OF BONDING ALTERNATIVES PRESENTED

Table No.	Bond Proceeds				Bond Term	Est. True Interest Cost	Est. Interest Cost	Average Annual Payment	Est. Maximum Annual Payment
	Bond Amount	Less: Est. Issuance Costs	Plus: Est. Interest Earnings	Est. Amount Available for Project Cost					
Table_1a	\$2,600,000	(\$73,029)	\$3,159	\$2,530,130	7.00 yrs	1.72%	\$2,761,422	\$394,489	\$401,557
Table_1b	\$2,600,000	(\$73,029)	\$3,159	\$2,530,130	9.00 yrs	1.81%	\$2,819,723	\$313,303	\$315,846
Table_1c	\$2,600,000	(\$73,029)	\$3,159	\$2,530,130	11.00 yrs	1.96%	\$2,894,033	\$263,094	\$265,913
Table_1d	\$2,600,000	(\$73,029)	\$3,159	\$2,530,130	13.00 yrs	2.13%	\$2,980,404	\$229,262	\$232,320
Table_2a	\$2,000,000	(\$67,416)	\$2,416	\$1,935,000	7.00 yrs	1.72%	\$2,124,056	\$303,437	\$304,980
Table_2b	\$2,000,000	(\$67,416)	\$2,416	\$1,935,000	9.00 yrs	1.81%	\$2,168,521	\$240,947	\$244,327
Table_2c	\$2,000,000	(\$67,416)	\$2,416	\$1,935,000	11.00 yrs	1.96%	\$2,226,634	\$202,421	\$204,500
Table_2d	\$2,000,000	(\$67,416)	\$2,416	\$1,935,000	13.00 yrs	2.16%	\$2,292,463	\$176,343	\$178,852

Assumptions:

- * 05/01/20 dated date and 11/01/20 first interest payment date, and 5/1/2021 first principal payment
- * Assumes a public sale. Note: the cost of issuance would be less if issued with a direct placement.
- * Assumes the District maintains its "A" rating
- * **Assumes current interest rates as of 02/06/20. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_1a

\$2,600,000 Dundee Community Schools Counties of Monroe and Lenawee 2020 SCHOOL BUILDING AND SITE BONDS (GENERAL OBLIGATION - LIMITED TAX) ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT	<u>Series 2020</u>
	Amount: \$2,600,000
	TIC: 1.72%
	Dated Date: May 1, 20
	First Payment: Nov 1, 20 < 6 Months
	First Levy: N/A
	Capitalized Int: N/A
	Debt/TV ^[1] : 5.74%
	Bond Term: 7 yrs., 0 mo.
	1:5 Ratio: TRUE
	Average Life: 4.07
	Debt/SEV ^[1] : 4.31%

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	19,157	19,157	1.320%	355,000	393,315
2021	2022	0	16,814	16,814	1.380%	360,000	393,629
2022	2023	0	14,330	14,330	1.410%	365,000	393,661
2023	2024	0	11,757	11,757	1.440%	370,000	393,514
2024	2025	0	9,093	9,093	1.500%	375,000	393,186
2025	2026	0	6,281	6,281	1.580%	380,000	392,561
2026	2027	0	3,279	3,279	1.660%	395,000	401,557
2027	2028	0	0	0	1.780%	0	0
2028	2029	0	0	0	1.950%	0	0
2029	2030	0	0	0	2.120%	0	0
2030	2031	0	0	0	2.250%	0	0
2031	2032	0	0	0	2.400%	0	0
2032	2033	0	0	0	2.550%	0	0
2033	2034	0	0	0	0.000%	0	0
2034	2035	0	0	0	0.000%	0	0
2035	2036	0	0	0	0.000%	0	0
2036	2037	0	0	0	0.000%	0	0
2037	2038	0	0	0	0.000%	0	0
2038	2039	0	0	0	0.000%	0	0
2039	2040	0	0	0	0.000%	0	0
		\$0	\$80,711	\$80,711		\$2,600,000	\$2,761,422

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_1c

\$2,600,000		Series 2020
Dundee Community Schools		Amount: \$2,600,000
Counties of Monroe and Lenawee		TIC: 1.96%
2020 SCHOOL BUILDING AND SITE BONDS		Dated Date: May 1, 20
(GENERAL OBLIGATION - LIMITED TAX)		First Payment: Nov 1, 20 < 6 Months
ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT		First Levy: N/A
		Capitalized Int: N/A
		Debt/TV ^[1] : 5.74%
		Bond Term: 11 yrs., 0 mo.
		1:5 Ratio: TRUE
		Average Life: 6.16
		Debt/SEV ^[1] : 4.31%

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	21,923	21,923	1.320%	220,000	263,845
2021	2022	0	20,471	20,471	1.380%	220,000	260,941
2022	2023	0	18,953	18,953	1.410%	225,000	262,905
2023	2024	0	17,366	17,366	1.440%	230,000	264,733
2024	2025	0	15,710	15,710	1.500%	230,000	261,421
2025	2026	0	13,985	13,985	1.580%	235,000	262,971
2026	2027	0	12,129	12,129	1.660%	240,000	264,258
2027	2028	0	10,137	10,137	1.780%	245,000	265,274
2028	2029	0	7,956	7,956	1.950%	250,000	265,913
2029	2030	0	5,519	5,519	2.120%	250,000	261,038
2030	2031	0	2,869	2,869	2.250%	255,000	260,738
2031	2032	0	0	0	2.400%	0	0
2032	2033	0	0	0	2.550%	0	0
2033	2034	0	0	0	0.000%	0	0
2034	2035	0	0	0	0.000%	0	0
2035	2036	0	0	0	0.000%	0	0
2036	2037	0	0	0	0.000%	0	0
2037	2038	0	0	0	0.000%	0	0
2038	2039	0	0	0	0.000%	0	0
2039	2040	0	0	0	0.000%	0	0
		\$0	\$147,017	\$147,017		\$2,600,000	\$2,894,033

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_1d

\$2,600,000		<u>Series 2020</u>
Dundee Community Schools		Amount: \$2,600,000
Counties of Monroe and Lenawee		TIC: 2.13%
2020 SCHOOL BUILDING AND SITE BONDS		Dated Date: May 1, 20
(GENERAL OBLIGATION - LIMITED TAX)		First Payment: Nov 1, 20 < 6 Months
ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT		First Levy: N/A
		Capitalized Int: N/A
		Debt/TV ^[1] : 5.74%
		Bond Term: 13 yrs., 0 mo.
		1:5 Ratio: TRUE
		Average Life: 7.22
		Debt/SEV ^[1] : 4.31%

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	23,658	23,658	1.320%	185,000	232,315
2021	2022	0	22,437	22,437	1.380%	185,000	229,873
2022	2023	0	21,160	21,160	1.410%	190,000	232,320
2023	2024	0	19,821	19,821	1.440%	190,000	229,641
2024	2025	0	18,453	18,453	1.500%	190,000	226,905
2025	2026	0	17,028	17,028	1.580%	195,000	229,055
2026	2027	0	15,487	15,487	1.660%	195,000	225,974
2027	2028	0	13,869	13,869	1.780%	200,000	227,737
2028	2029	0	12,089	12,089	1.950%	205,000	229,177
2029	2030	0	10,090	10,090	2.120%	210,000	230,180
2030	2031	0	7,864	7,864	2.250%	215,000	230,728
2031	2032	0	5,445	5,445	2.400%	220,000	230,890
2032	2033	0	2,805	2,805	2.550%	220,000	225,610
2033	2034	0	0	0	0.000%	0	0
2034	2035	0	0	0	0.000%	0	0
2035	2036	0	0	0	0.000%	0	0
2036	2037	0	0	0	0.000%	0	0
2037	2038	0	0	0	0.000%	0	0
2038	2039	0	0	0	0.000%	0	0
2039	2040	0	0	0	0.000%	0	0
		\$0	\$190,202	\$190,202		\$2,600,000	\$2,980,404

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_2a

\$2,000,000		Series 2020	
Dundee Community Schools		Amount:	\$2,000,000
Counties of Monroe and Lenawee		TIC:	1.72%
2020 SCHOOL BUILDING AND SITE BONDS		Dated Date:	May 1, 20
(GENERAL OBLIGATION - LIMITED TAX)		First Payment:	Nov 1, 20 < 6 Months
ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT		First Levy:	N/A
		Capitalized Int:	N/A
		Debt/TV ^[1] :	5.59%
		Bond Term:	7 yrs., 0 mo.
		1:5 Ratio:	TRUE
		Average Life:	4.06
		Debt/SEV ^[1] :	4.20%

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	14,734	14,734	1.320%	275,000	304,468
2021	2022	0	12,919	12,919	1.380%	275,000	300,838
2022	2023	0	11,022	11,022	1.410%	280,000	302,043
2023	2024	0	9,048	9,048	1.440%	285,000	303,095
2024	2025	0	6,996	6,996	1.500%	290,000	303,991
2025	2026	0	4,821	4,821	1.580%	295,000	304,641
2026	2027	0	2,490	2,490	1.660%	300,000	304,980
2027	2028	0	0	0	1.780%	0	0
2028	2029	0	0	0	1.950%	0	0
2029	2030	0	0	0	2.120%	0	0
2030	2031	0	0	0	2.250%	0	0
2031	2032	0	0	0	2.400%	0	0
2032	2033	0	0	0	2.550%	0	0
2033	2034	0	0	0	2.550%	0	0
2034	2035	0	0	0	2.550%	0	0
2035	2036	0	0	0	2.550%	0	0
2036	2037	0	0	0	2.550%	0	0
2037	2038	0	0	0	2.550%	0	0
2038	2039	0	0	0	2.550%	0	0
2039	2040	0	0	0	2.550%	0	0
		\$0	\$62,028	\$62,028		\$2,000,000	\$2,124,056

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_2c

\$2,000,000		Series 2020
Dundee Community Schools		Amount: \$2,000,000
Counties of Monroe and Lenawee		TIC: 1.96%
2020 SCHOOL BUILDING AND SITE BONDS		Dated Date: May 1, 20
(GENERAL OBLIGATION - LIMITED TAX)		First Payment: Nov 1, 20 < 6 Months
		First Levy: N/A
		Capitalized Int: N/A
		Debt/TV ^[1] : 5.59%
		Bond Term: 11 yrs., 0 mo.
		1:5 Ratio: TRUE
		Average Life: 6.16
		Debt/SEV ^[1] : 4.20%
ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT		

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	16,875	16,875	1.320%	170,000	203,750
2021	2022	0	15,753	15,753	1.380%	170,000	201,506
2022	2023	0	14,580	14,580	1.410%	175,000	204,160
2023	2024	0	13,346	13,346	1.440%	175,000	201,692
2024	2025	0	12,086	12,086	1.500%	175,000	199,172
2025	2026	0	10,774	10,774	1.580%	180,000	201,547
2026	2027	0	9,352	9,352	1.660%	185,000	203,703
2027	2028	0	7,816	7,816	1.780%	185,000	200,632
2028	2029	0	6,170	6,170	1.950%	190,000	202,339
2029	2030	0	4,317	4,317	2.120%	195,000	203,634
2030	2031	0	2,250	2,250	2.250%	200,000	204,500
2031	2032	0	0	0	2.400%	0	0
2032	2033	0	0	0	2.550%	0	0
2033	2034	0	0	0	2.550%	0	0
2034	2035	0	0	0	2.550%	0	0
2035	2036	0	0	0	2.550%	0	0
2036	2037	0	0	0	2.550%	0	0
2037	2038	0	0	0	2.550%	0	0
2038	2039	0	0	0	2.550%	0	0
2039	2040	0	0	0	2.550%	0	0
		\$0	\$113,317	\$113,317		\$2,000,000	\$2,226,634

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_2d

\$2,000,000		Series 2020
Dundee Community Schools		Amount: \$2,000,000
Counties of Monroe and Lenawee		TIC: 2.16%
2020 SCHOOL BUILDING AND SITE BONDS		Dated Date: May 1, 20
(GENERAL OBLIGATION - LIMITED TAX)		First Payment: Nov 1, 20 < 6 Months
		First Levy: N/A
		Capitalized Int: N/A
		Debt/TV ^[1] : 5.59%
		Bond Term: 13 yrs., 0 mo.
		1:5 Ratio: TRUE
		Average Life: 7.23
		Debt/SEV ^[1] : 4.20%
ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT		

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	18,192	18,192	1.320%	140,000	176,384
2021	2022	0	17,268	17,268	1.380%	140,000	174,536
2022	2023	0	16,302	16,302	1.410%	145,000	177,604
2023	2024	0	15,280	15,280	1.440%	145,000	175,560
2024	2025	0	14,236	14,236	1.500%	150,000	178,472
2025	2026	0	13,111	13,111	1.580%	150,000	176,222
2026	2027	0	11,926	11,926	1.660%	155,000	178,852
2027	2028	0	10,639	10,639	1.780%	155,000	176,279
2028	2029	0	9,260	9,260	1.950%	160,000	178,520
2029	2030	0	7,700	7,700	2.120%	160,000	175,400
2030	2031	0	6,004	6,004	2.250%	165,000	177,008
2031	2032	0	4,148	4,148	2.400%	165,000	173,295
2032	2033	0	2,168	2,168	2.550%	170,000	174,335
2033	2034	0	0	0	2.450%	0	0
2034	2035	0	0	0	0.000%	0	0
2035	2036	0	0	0	0.000%	0	0
2036	2037	0	0	0	0.000%	0	0
2037	2038	0	0	0	0.000%	0	0
2038	2039	0	0	0	0.000%	0	0
2039	2040	0	0	0	0.000%	0	0
		\$0	\$146,232	\$146,232		\$2,000,000	\$2,292,463

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_2b

\$2,000,000		Series 2020
Dundee Community Schools		Amount: \$2,000,000
Counties of Monroe and Lenawee		TIC: 1.81%
2020 SCHOOL BUILDING AND SITE BONDS		Dated Date: May 1, 20
(GENERAL OBLIGATION - LIMITED TAX)		First Payment: Nov 1, 20 < 6 Months
ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT		First Levy: N/A
		Capitalized Int: N/A
		Debt/TV ^[1] : 5.59%
		Bond Term: 9 yrs., 0 mo.
		1:5 Ratio: TRUE
		Average Life: 5.08
		Debt/SEV ^[1] : 4.20%

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	15,633	15,633	1.320%	210,000	241,266
2021	2022	0	14,247	14,247	1.380%	215,000	243,494
2022	2023	0	12,763	12,763	1.410%	215,000	240,527
2023	2024	0	11,248	11,248	1.440%	220,000	242,495
2024	2025	0	9,664	9,664	1.500%	225,000	244,327
2025	2026	0	7,976	7,976	1.580%	225,000	240,952
2026	2027	0	6,199	6,199	1.660%	230,000	242,397
2027	2028	0	4,290	4,290	1.780%	230,000	238,579
2028	2029	0	2,243	2,243	1.950%	230,000	234,485
2029	2030	0	0	0	2.120%	0	0
2030	2031	0	0	0	2.250%	0	0
2031	2032	0	0	0	2.400%	0	0
2032	2033	0	0	0	2.550%	0	0
2033	2034	0	0	0	2.550%	0	0
2034	2035	0	0	0	2.550%	0	0
2035	2036	0	0	0	2.550%	0	0
2036	2037	0	0	0	2.550%	0	0
2037	2038	0	0	0	2.550%	0	0
2038	2039	0	0	0	2.550%	0	0
2039	2040	0	0	0	2.550%	0	0
		\$0	\$84,260	\$84,260		\$2,000,000	\$2,168,521

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**



Table_1b

\$2,600,000		Series 2020
Dundee Community Schools		Amount: \$2,600,000
Counties of Monroe and Lenawee		TIC: 1.81%
2020 SCHOOL BUILDING AND SITE BONDS		Dated Date: May 1, 20
(GENERAL OBLIGATION - LIMITED TAX)		First Payment: Nov 1, 20 < 6 Months
ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT		First Levy: N/A
		Capitalized Int: N/A
		Debt/TV ^[1] : 5.74%
		Bond Term: 9 yrs., 0 mo.
		1:5 Ratio: TRUE
		Average Life: 5.09
		Debt/SEV ^[1] : 4.31%

	Fiscal	Existing	Series 2020				
Tax	Year	LT Debt	Interest Due	Interest Due	Interest	Principal Due	Total Debt
Year	End	\$0	Nov 1	May 1	Rate	May 1	Service
2019	2020	\$0	\$0	\$0	0.000%	\$0	\$0
2020	2021	0	20,336	20,336	1.320%	275,000	315,673
2021	2022	0	18,521	18,521	1.380%	275,000	312,043
2022	2023	0	16,624	16,624	1.410%	280,000	313,248
2023	2024	0	14,650	14,650	1.440%	285,000	314,300
2024	2025	0	12,598	12,598	1.500%	290,000	315,196
2025	2026	0	10,423	10,423	1.580%	295,000	315,846
2026	2027	0	8,092	8,092	1.660%	295,000	311,185
2027	2028	0	5,644	5,644	1.780%	300,000	311,288
2028	2029	0	2,974	2,974	1.950%	305,000	310,948
2029	2030	0	0	0	2.120%	0	0
2030	2031	0	0	0	2.250%	0	0
2031	2032	0	0	0	2.400%	0	0
2032	2033	0	0	0	2.550%	0	0
2033	2034	0	0	0	0.000%	0	0
2034	2035	0	0	0	0.000%	0	0
2035	2036	0	0	0	0.000%	0	0
2036	2037	0	0	0	0.000%	0	0
2037	2038	0	0	0	0.000%	0	0
2038	2039	0	0	0	0.000%	0	0
2039	2040	0	0	0	0.000%	0	0
		\$0	\$109,861	\$109,861		\$2,600,000	\$2,819,723

[1] Includes \$19,770,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

*** Assumes current interest rates as of 2/06/19. Actual payments will vary based on actual interest rates at the time of the sale.**

Table_1a 2020

\$2,600,000
Dundee Community Schools
2020 SCHOOL BUILDING AND SITE BONDS

BOND SIZING SCHEDULE				
<u>ESTIMATED BOND ISSUANCE COSTS</u>			<u>ESTIMATED OTHER COSTS</u>	
Bond Discount	0.750%	\$19,500	Reimbursable Election Costs	\$2,909
Bond Insurance		0	Capitalized Interest	N/A
Bond Attorney Fee		15,650	Other	0
Financial Consultant Fee		16,050	TOTAL OTHER COSTS	\$2,909
Credit Rating	If required	12,500	<u>BOND SIZING</u>	
Qualification of Bonds		0	Total Bond Issuance and Other Costs	\$73,029
Official Statement Printing & Mailing - if required		3,000	Total Project Expenditures	2,530,130
Notice of Sale Publication - if required		2,000	Total Project, Issuance & Other Costs	2,603,159
Treasury Filing Fee(s)		520	Less Original Issue Premium	0
Auditor's Consent Fee		0	Less Estimated Construction Fund Earnings	(3,159)
Paying Agent Upfront Fee		500	Less Other Adjustments	0
Municipal Advisory Council Fee		400	AMOUNT OF BOND ISSUE	\$2,600,000
TOTAL BOND ISSUANCE COSTS		\$70,120		

PROJECT FUND DRAWS AND EARNINGS SECTION

Date	Estimated Expenditures			Average Life = 0.20 years		Project Fund Balance	Estimated Interest Rate	Projected Interest Earned
	Project Expenditures	Issuance & Other Costs	Totals	Month	Payout %			
May 20						\$2,600,000		
May 20	\$421,688	\$73,029	\$494,717	1	19.00%	2,105,283	0.60%	\$1,053
Jun 20	421,688		421,688	2	35.20%	1,684,647	0.60%	842
Jul 20	421,688		421,688	3	51.40%	1,263,801	0.60%	632
Aug 20	421,688		421,688	4	67.60%	842,745	0.60%	421
Sep 20	421,688		421,688	5	83.80%	421,478	0.60%	211
Oct 20	421,688		421,688	6	100.00%	0	0.60%	0
Nov 20	0		0	7	100.00%	0	0.60%	0
	\$2,530,130	\$73,029	\$2,603,159					\$3,159
								SM/KB

Table_2a 2020

\$2,000,000
Dundee Community Schools
2020 SCHOOL BUILDING AND SITE BONDS

BOND SIZING SCHEDULE				
ESTIMATED BOND ISSUANCE COSTS			ESTIMATED OTHER COSTS	
Bond Discount	0.750%	\$15,000	Reimbursable Election Costs	\$2,866
Bond Insurance		0	Capitalized Interest	N/A
Bond Attorney Fee		15,500	Other	0
Financial Consultant Fee		15,250	TOTAL OTHER COSTS	\$2,866
Credit Rating	If required	12,500	BOND SIZING	
Qualification of Bonds		0	Total Bond Issuance and Other Costs	\$67,416
Official Statement Printing & Mailing - if required		3,000	Total Project Expenditures	1,935,000
Notice of Sale Publication - if required		2,000	Total Project, Issuance & Other Costs	2,002,416
Treasury Filing Fee(s)		400	Less Original Issue Premium	0
Auditor's Consent Fee		0	Less Estimated Construction Fund Earnings	(2,416)
Paying Agent Upfront Fee		500	Less Other Adjustments	0
Municipal Advisory Council Fee		400	AMOUNT OF BOND ISSUE	\$2,000,000
TOTAL BOND ISSUANCE COSTS		\$64,550		

PROJECT FUND DRAWS AND EARNINGS SECTION

Estimated Expenditures				Average Life = 0.20 years		Project Fund Balance	Estimated Interest Rate	Projected Interest Earned
Date	Project Expenditures	Issuance & Other Costs	Totals	Month	Payout %			
May 20						\$2,000,000		
May 20	\$322,500	\$67,416	\$389,916	1	19.47%	1,610,084	0.60%	\$805
Jun 20	322,500		322,500	2	35.58%	1,288,389	0.60%	644
Jul 20	322,500		322,500	3	51.68%	966,533	0.60%	483
Aug 20	322,500		322,500	4	67.79%	644,517	0.60%	322
Sep 20	322,500		322,500	5	83.89%	322,339	0.60%	161
Oct 20	322,500		322,500	6	100.00%	0	0.60%	0
Nov 20	0		0	7	100.00%	0	0.60%	0
	\$1,935,000	\$67,416	\$2,002,416					\$2,416
								SM/KB

- E1.0 - SITE PLAN
- E1.1 - DETAILS
- E1.2 - PANEL SCHEDULES & DETAILS
- E2.1 - CONCESSION STAND - LIGHTING
- E2.2 - CONCESSION STAND - POWER & COMM.
- E3.1 - TICKET BOOTH - LIGHTING, POWER
& COMM. PLANS
- E4.0 - MECHANICAL EQUIPMENT PLANS
- BLEACHER ELECTRICAL PLAN - REFERENCE ONLY

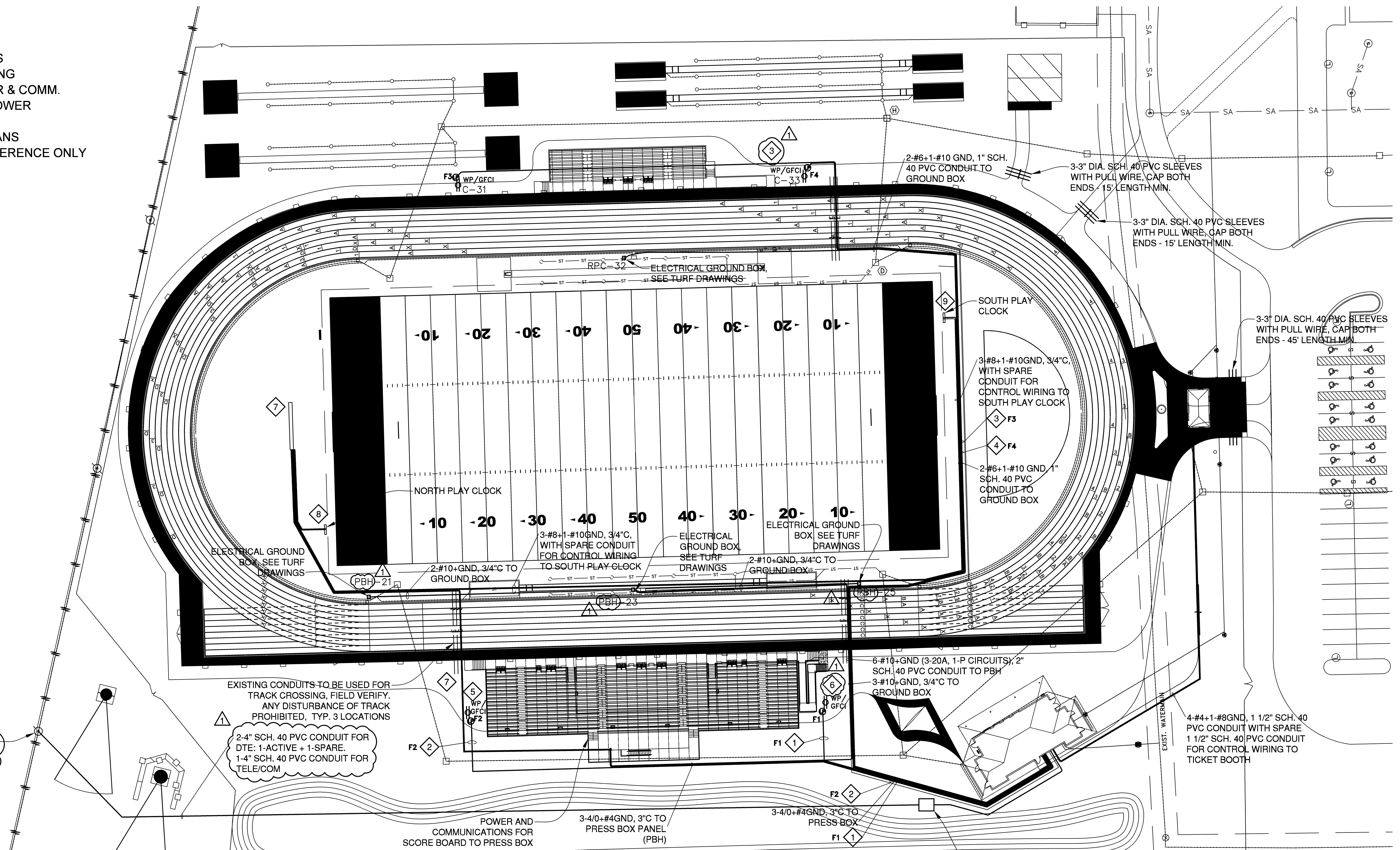
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 VERSION OF THE NATIONAL ELECTRICAL CODE, AND WITH DIRECTIONS PROVIDED BY THE AUTHORITY HAVING JURISDICTION.

3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OTHER TRADES WORKING ON THE PROJECT.

4. HANDHOLES TO BE PLACED BY THE CONTRACTOR AS NEEDED BASED ON OVERALL LAYOUT. WHERE HANDHOLES ARE REQUIRED WITHIN THE TURF, TURF COMPATIBLE BOXES TO BE USED AND COORDINATED WITH THE TURF CONTRACTOR. NO BOXES TO BE PLACED WITHIN THE PLAYING AREA OF EITHER THE FOOTBALL FIELD OR SOCCER FIELD.



Know what's **below**.
Call before you dig.



1 MUSCO FIELD LIGHT CONTROLLED FROM CONTACTORS C1, C5 & C6.
4-#10 + 4-#12 +1-#10 GND., 1 1/2" SCH. 40 PVC CONDUIT. ADD 1 - ADDITIONAL 1 1/2" SCH. 40 PVC CONDUIT WITH PULL WIRE FOR COMMUNICATIONS SIGNALS.

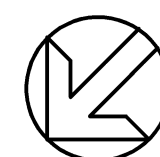
2 MUSCO FIELD LIGHT CONTROLLED FROM CONTACTORS C2 & C7.
4-#8 + 4-#12 +1-#10 GND., 1 1/2" SCH. 40 PVC CONDUIT. ADD 1 - ADDITIONAL 1 1/2" SCH. 40 PVC CONDUIT WITH PULL WIRE FOR COMMUNICATIONS SIGNALS.

3 MUSCO FIELD LIGHT CONTROLLED FROM CONTACTORS C3 & C8.
4-#6 + 4-#12 +1-#10 GND., 1 1/2" SCH. 40 PVC CONDUIT. ADD 1 - ADDITIONAL 1 1/2" SCH. 40 PVC CONDUIT WITH PULL WIRE FOR COMMUNICATIONS SIGNALS.

4. MUSCO FIELD LIGHT CONTROLLED FROM CONTACTORS C4.
C4#8 + 4#12 + 1#10 GND., 1 1/2" SCH. 40 PVC CONDUIT. ADD
1 - ADDITIONAL 1 1/2" SCH. 40 PVC CONDUIT WITH PULL
WIRE FOR COMMUNICATIONS SIGNALS
5. PROVIDE 2#12 + GND., 3/4" CONDUIT FROM A 20A, 1-P
CIRCUIT BREAKER IN THE PRESS BOX ELECTRICAL PANEL
TO THE WP/GFCI AT THE POLE BASE. SEE POLE BASE
DETAIL, SHEET E1.2.
6. PROVIDE 2#6 + 1#10 GND., 1" CONDUIT FROM A 20A, 1-P
CIRCUIT BREAKER IN RPC TO THE WP/GFCI AT THE POLE
BASE. SEE POLE BASE DETAIL, SHEET E1.2.
7. PROVIDE A 20-A, 120VAC CIRCUIT (PBH-27) TO THE
SCOREBOARD 2#8 + 1#10 GND., 1" SCH. 40 PVC CONDUIT.
FIELD VERIFY EXACT POWER INTERFACE REQUIREMENTS.
CONNECT PER MANUFACTURERS INSTRUCTIONS. ALSO
RUN A SPARE 1" SCH. 40 PVC CONDUIT WITH PULL WIRE
FROM THE SCOREBOARD TO THE PRESS BOX FOR
COMMUNICATION. FIELD VERIFY EXACT REQUIREMENTS.

8 PROVIDE A 20A, 120VAC CIRCUIT (PBH-29) TO THE NORTH PLAY CLOCK, 2#12 + GND., 1" SCH. 40 PVC CONDUIT. FIELD VERIFY EXACT POWER INTERFACE REQUIREMENTS. CONNECT PER MANUFACTURERS INSTRUCTIONS. ALSO RUN A SPARE 1" SCH. 40 PVC CONDUIT WITH PULL WIRE FROM THE PLAY CLOCK TO THE PRESS BOX FOR COMMUNICATION. FIELD VERIFY EXACT REQUIREMENTS.

9 PROVIDE A 20A, 120VAC CIRCUIT (PBH-38) TO THE SOUTH PLAY CLOCK, 2#10 + GND., 1" SCH. 40 PVC CONDUIT. FIELD VERIFY EXACT POWER INTERFACE REQUIREMENTS. CONNECT PER MANUFACTURERS INSTRUCTIONS. ALSO RUN A SPARE 1" SCH. 40 PVC CONDUIT WITH PULL WIRE FROM THE PLAY CLOCK TO THE PRESS BOX FOR COMMUNICATION. FIELD VERIFY EXACT REQUIREMENTS.



SCALE: 1"=30'-0"

STATE OF MICHIGAN
★ ALLEN FRANCIS MONTERO ENGINEER
★ LICENSED PROFESSIONAL ENGINEER
No. 27202

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130 VIKING DRIVE
DUNDEE, MICHIGAN 48131

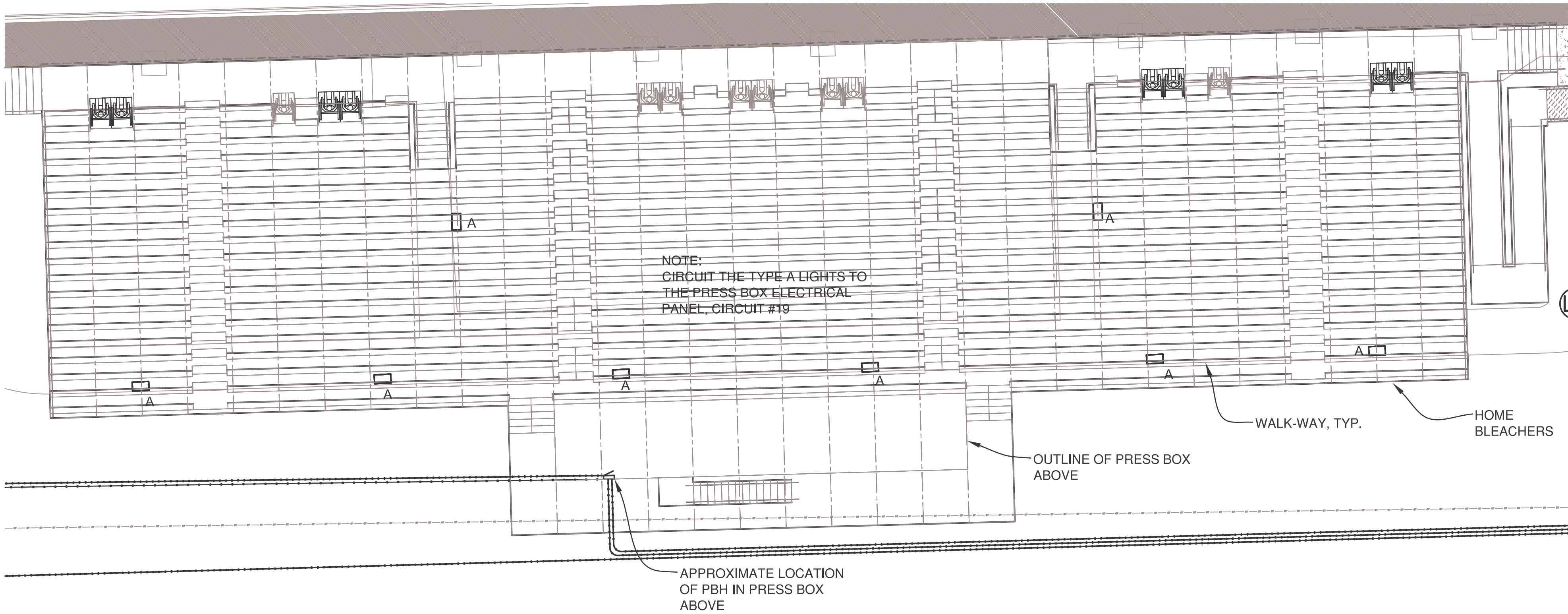
DAVID ARTHUR
CONSULTANTS, INC.
440 MAIN STREET

110 MAIN STREET
DUNDEE, MICHIGAN 48131

ISSUE	DATE
	01/23/20
	01/10/20

PROJECT
NUMBER: MEI-191203
DRAWN: RSS
CHECKED: AFM

E1.0



GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 VERSION OF THE NATIONAL ELECTRICAL CODE, AND WITH DIRECTIONS PROVIDED BY THE AUTHORITY HAVING JURISDICTION.

2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DTE SERVICE PLANNING FOR ALL WORK ASSOCIATED WITH THE NEW ELECTRICAL SERVICE FOR THE BUILDING.

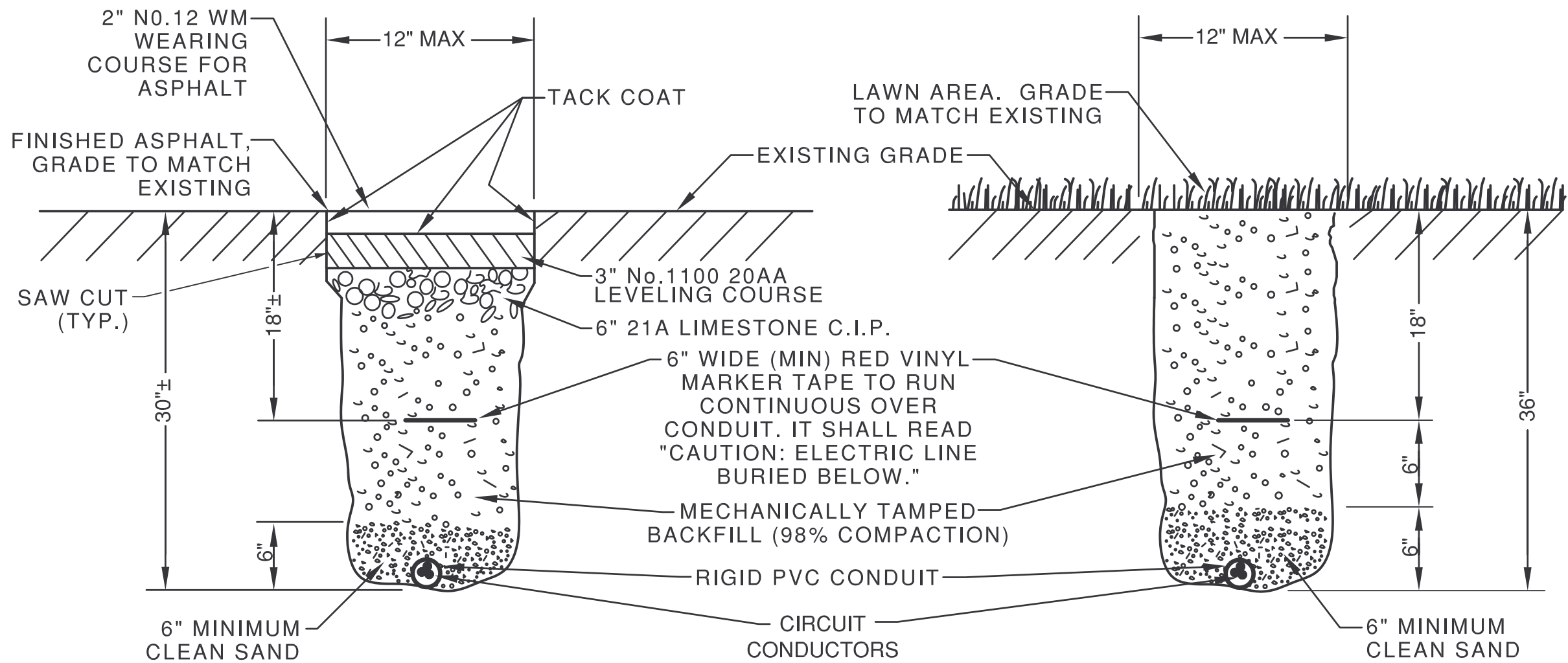
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OTHER TRADES WORKING ON THE PROJECT.



EXTERIOR WALKWAY LIGHTING PLAN

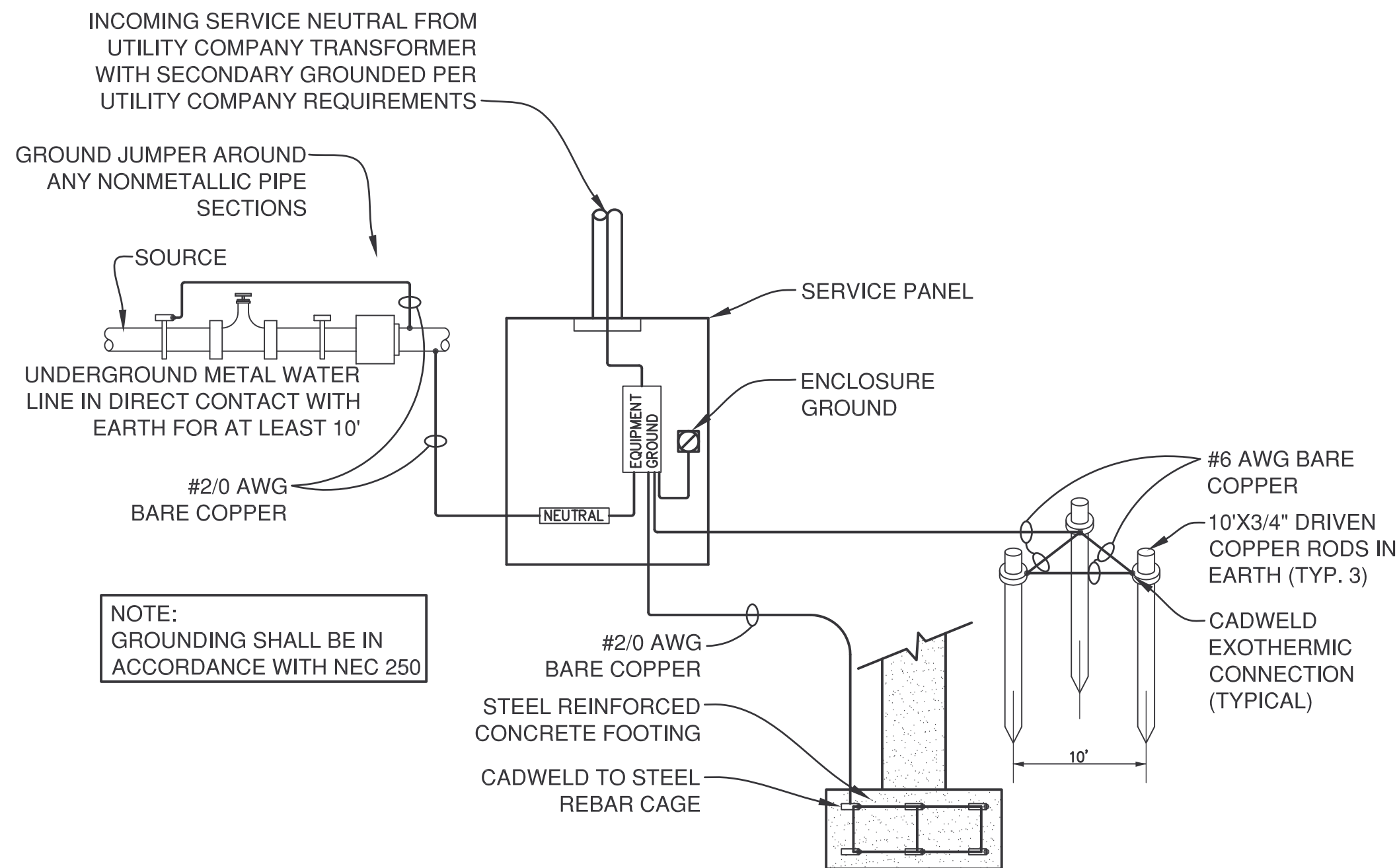
SCALE: 1"=20'-0"

Schedule								
Symbol	Label	Quantity	Catalog Number	Manufacturer	Description	Lamp	Number Lamps	Lumens Per Lamp
	A	8	WST LED P1 27K VW MVOLT DS VG	Lithonia Lighting	WST LED, Performance package 1, 2700 K, visual comfort wide, MVOLT, dual switching, vandal guard	LED	1	1656
								Wattage
								14



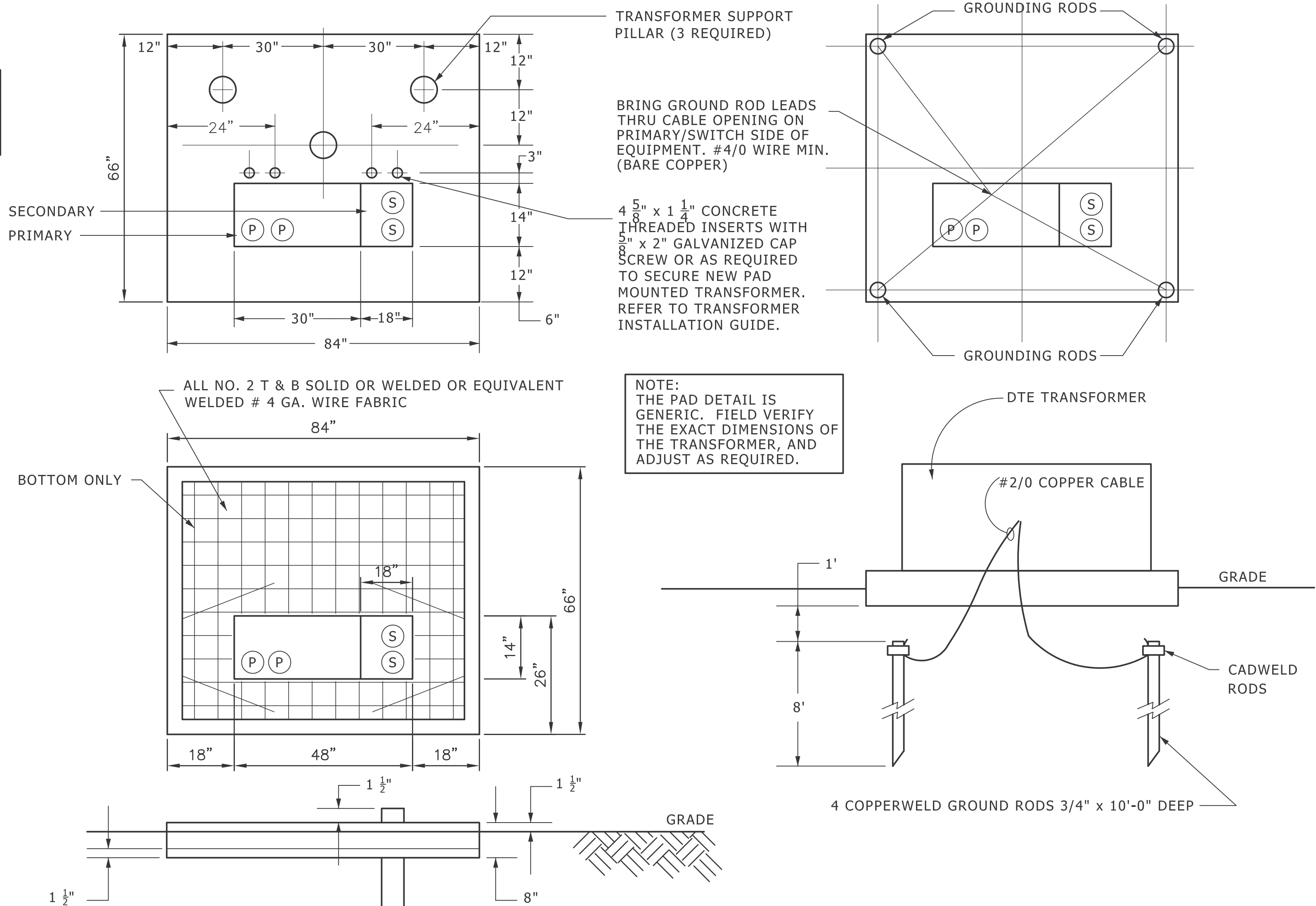
TYPICAL TRENCH DETAIL

SCALE: N.T.S.



SERVICE GROUND ELECTRODE SYSTEM WIRING DIAGRAM

SCALE: N.T.S.



TRANSFORMER PAD GROUP DETAIL

SCALE: N.T.S.



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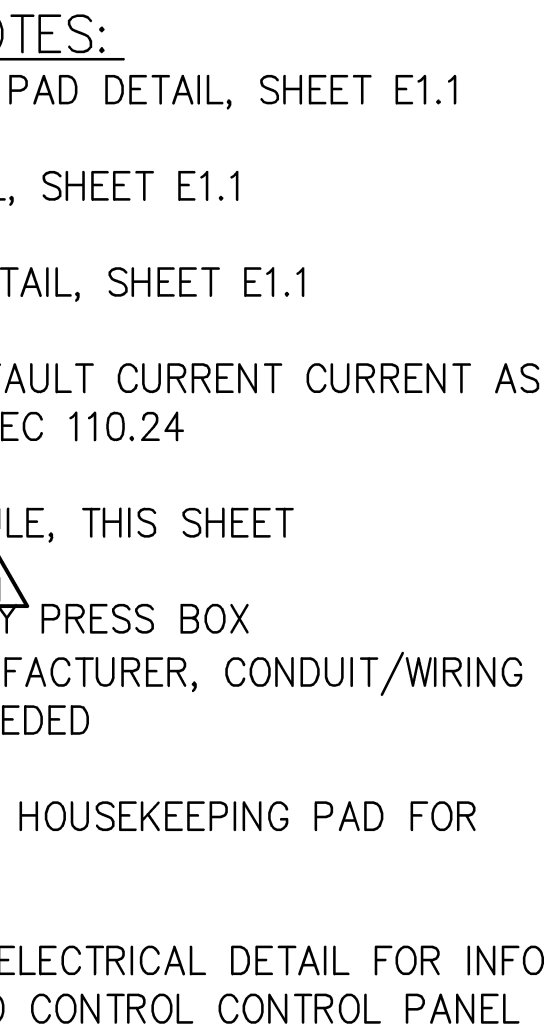
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CONSULTANTS, INC.

110 MAIN STREET
DUNDEE, MICHIGAN 48131

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E1.1

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8 SEE FIELD LIGHTS, ELECTRICAL DETAIL FOR INFO
RELATED TO MUSCO CONTROL CONTROL PANEL



E1.2



10 FRACT HP EX FAN, BY MECHANICAL TRADES. 120V, 155W.
CONNECT THE ON/OFF FUNCTION TO THE NEAREST
OCCUPANCY SENSOR CONTROLLED LIGHT FIXTURE.

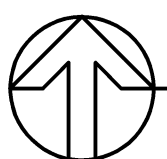
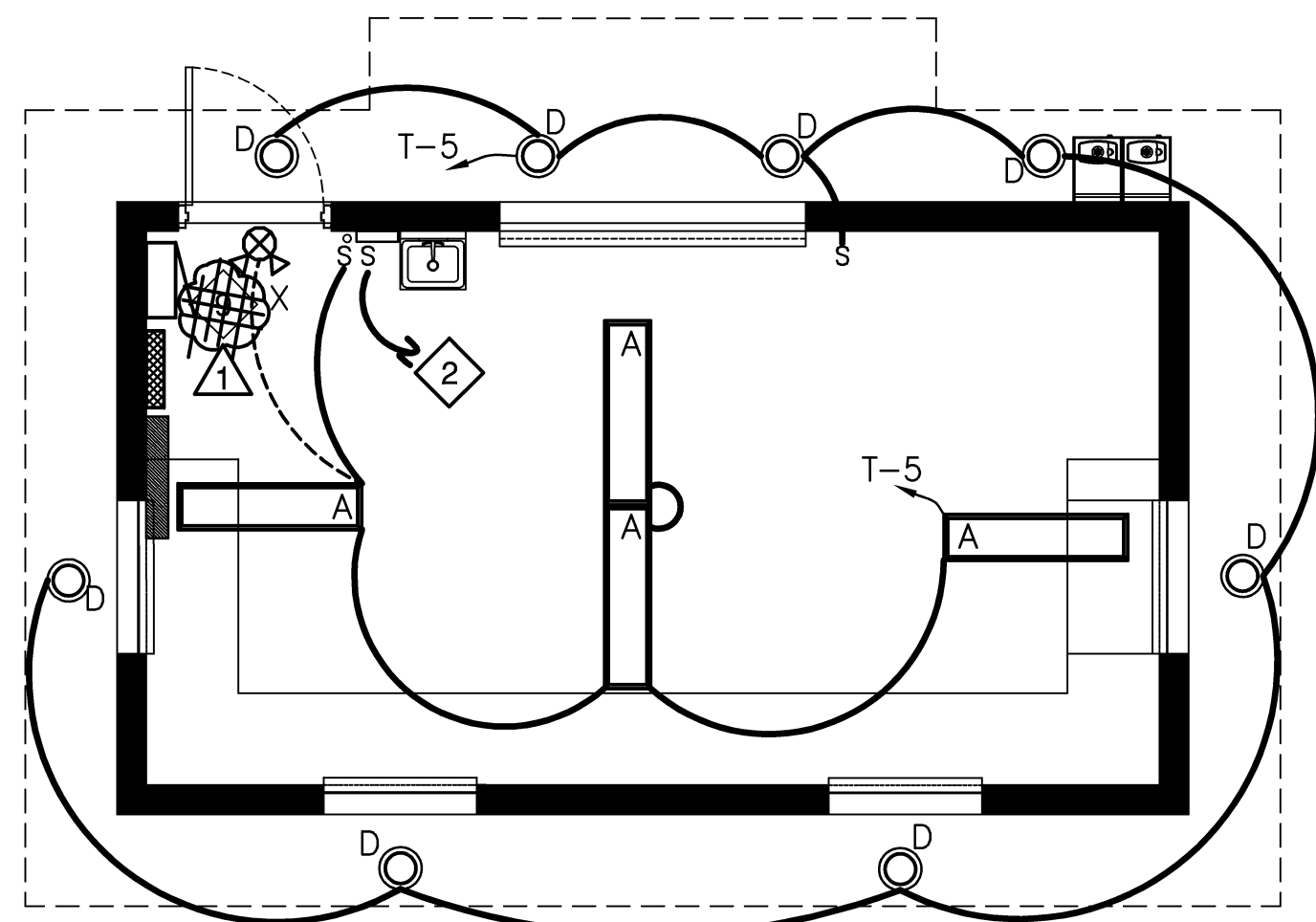
LEGEND	
SYMBOL	DESCRIPTION
S	20A, 120/277 SINGLE POLE SWITCH
S ₃	20A, 120/277 3-WAY SWITCH
S _{os}	WSX PDT D [GREY] WALL SWITCH DECORATOR SENSOR-DUAL TECHNOLOGY (PDT). PROGRAM ON/OFF TIME DELAY PER THE OWNER'S ON-SITE INSTRUCTIONS

E2.1



- | LEGEND | |
|---|--|
| SYMBOL | DESCRIPTION |
|  | 20A, 125V, 3-WIRE DUPLEX RECEPTABLE |
| GFCI  | DUPLEX WALL RECEPTACLE WITH GROUND FAULT INTERRUPTOR (20A, 125V, 3-WIRE, SPEC GRADE) |
| WP/GFCI  | GFCI RECEPTACLE IN A WEATHERPROOF ENCLOSURE. |
|  | DOUBLE DUPLEX WALL RECEPTACLE (20A, 120V, 3-WIRE.) |
|  | TELE/DATA OUTLET - SINGLE GANG BOX AT HEIGHT NOTED WITH 3/4"Ø C WITH PULL WIRE TO 24" INSIDE ATTIC. CONDUIT NOT TO BE VISIBLE IN FINISH SPACE. PROVIDE PLASTIC BUSHINGS ON BOTH ENDS OF THE CONDUIT. |

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TICKET BOOTH - LIGHTING

SCALE: 1/4"=1'-0"

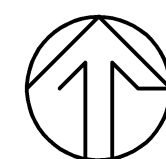
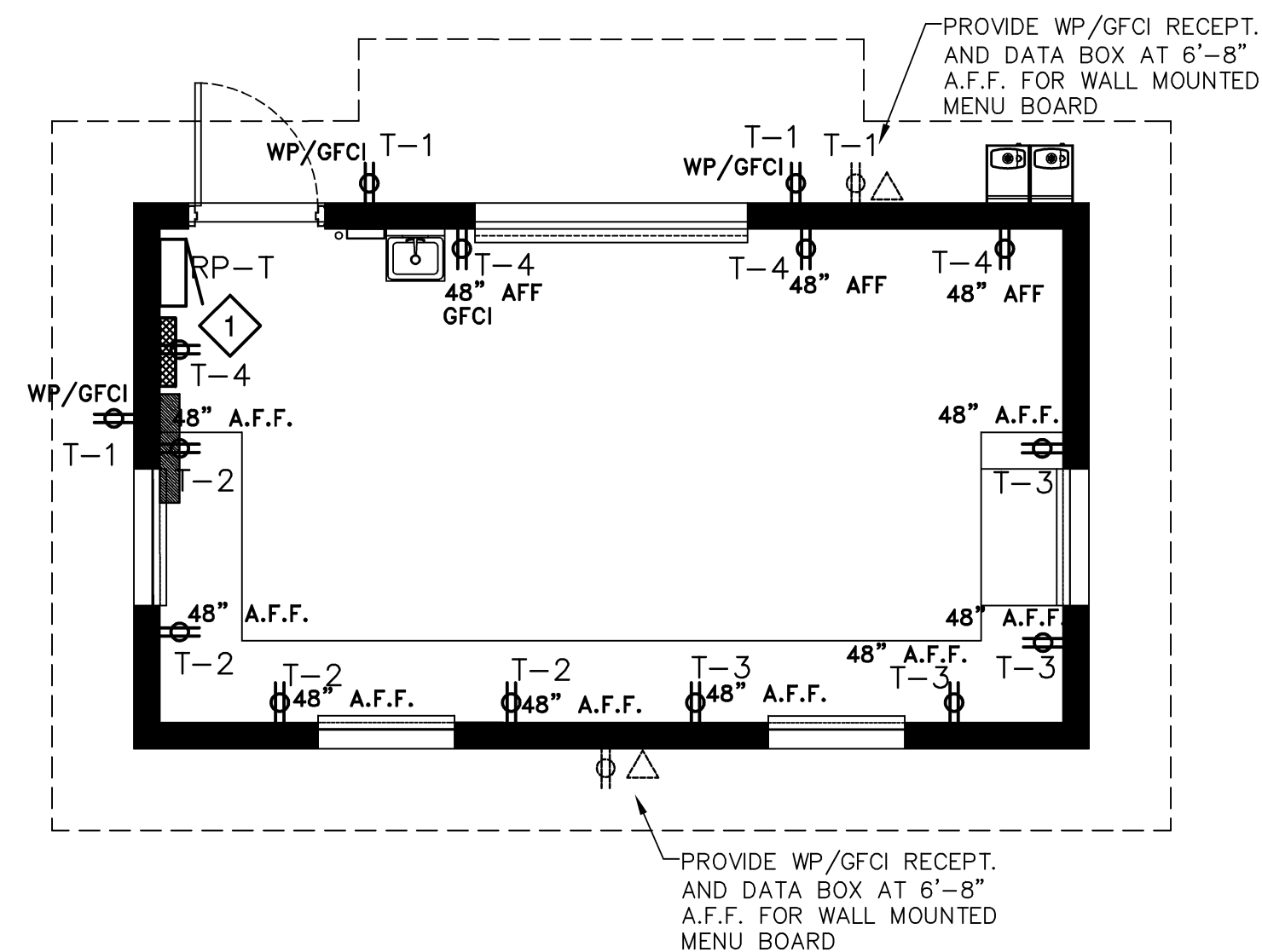
LEGEND

SYMBOL	DESCRIPTION
S	20A, 120/277 SINGLE POLE SWITCH
S ₃	20A, 120/277 3-WAY SWITCH
S _{OS}	WSX PDT D [GREY] WALL SWITCH DECORATOR SENSOR-DUAL TECHNOLOGY (PDT). PROGRAM ON/OFF TIME DELAY PER THE OWNER'S ON-SITE INSTRUCTIONS

REFERENCE NOTES:

20A 120/277V, 1-POLE SWITCH FOR ON/OFF CONTROL OF THE TYPE F LIGHTING FIXTURE ON THE FLAG POLE. 2#12+GND., 3/4" SCHEDULE 40 PVC CONDUIT FROM THE TICKET BOOTH TO HE FIXTURE. CIRCUIT TO T-5

Schedule							
Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Lumens per Lamp	Wattage
	A	Lithonia Lighting	STL4-30L-MVOLT-EZ1-LP840 SERIES	4', SURFACE MOUNT VOLUMETRIC FIXTURE WITH 30K LUMEN PACKAGE AND 4000K COLOUR.	LED	3195	26.7
	B	Lithonia Lighting	STL4-30L-MVOLT-EZ1-LP840-LSXRHL SERIES	4', SURFACE MOUNTE VOLUMETRIC FIXTURE WITH 30K LUMEN PACKAGE, 4000K COLOUR AND INTEGRAL SENSOR SWITCH HIGH/LOW OCCUPANCY OPERATION.	LED	3195	26.7
	C	Holophane Lighting	HZ1F-L48-SMR-3000LM-MDD-MVOLT-40K-80CRI-WH SERIES	4' LED STRIP LIGHT WITH SYMETRIC REFLECTOR, 3000 LUMENS, 4000K COLOUR AND 80 CRI	LED	3000	30
	D	Lithonia Lighting	WF8-LED-40K-MVOLT-90CRI-MW	8" ROUND, WAFER LED DOWNLILGHT WITH 4000K COLOUR AND MATTE WHITE FINISH	LED	1680	33.2
	E	Kiriin Lighting	LWR-09490-5000L-120V-50K-35	9" INDIRECT LED WEATHERPROOF FLAGPOLE LIGHT WITH SILVER FINISH. FIELD VERIFY POLE DIAMETER FOR REQUIRED MOUNTING BRACKET - QTY. 3	LED	5000	55
	X	Lithonia Lighting	LHQM-LED-R-ELA WG3	COMBINATION LED EXIT SIGN WITH RED FACE AND WHITE HOUSING / DUAL HEAD AUTOMATIC EMERGENCY LIGHT WITH WIRE GUARD.	LED	-	4.3
	X1	Lithonia Lighting	ELM6-UVOLT-LTP SERIES	DUAL HEAD, 1100 LUMEN, AUTOMATIC EMERGENCY LIGHT.	LED	-	3.15



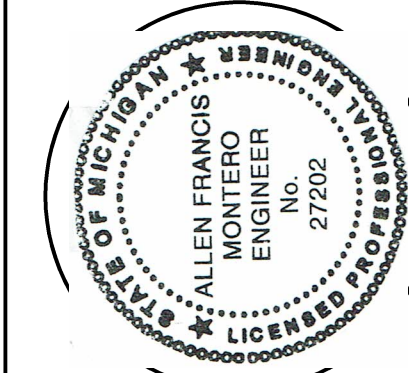
TICKET BOOTH - POWER & COMMUNICATION PLAN

SCALE: 1/4"=1'-0"

REFERENCE NOTES:

24"x24"x8" DEEP (NOMINAL) BOX WITH HINGED COVER. RUN 1 1/2" SCHEDULE 40 PVC CONDUIT, WITH PULL WIRE, FROM 4'x8' COMMUNICATION BACKBOARD IN THE CONCESSION STAND INTO THE BOX.

LEGEND	
SYMBOL	DESCRIPTION
	20A, 125V, 3-WIRE DUPLEX RECEPTABLE
GFCI 	DUPLEX WALL RECEPTACLE WITH GROUND FAULT INTERRUPTOR (20A, 125V, 3-WIRE, SPEC GRADE)
W/P/GFCI 	GFCI RECEPTACLE IN A WEATHERPROOF ENCLOSURE.
	DOUBLE DUPLEX WALL RECEPTACLE (20A, 120V, 3-WIRE.)
	TELE/DATA OUTLET - SINGLE GANG BOX AT HEIGHT NOTED WITH 3/4"Ø C WITH PULL WIRE TO 24" INSIDE ATTIC. CONDUIT NOT TO BE VISIBLE IN FINISH SPACE. PROVIDE PLASTIC BUSHINGS ON BOTH ENDS OF THE CONDUIT.



Prepared By:
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Prepared By:

For:

DUNDEE COMMUNITY SCHOOLS

ATHLETIC COMPLEX
130 VIKING DRIVE
DUNDEE, MICHIGAN 48121

130 VIKING DRIVE
DUNDEE, MICHIGAN 48131

DAVID ARTHUR
CONSULTANTS, INC.
110 MAIN STREET
DUNDEE, MICHIGAN 48131

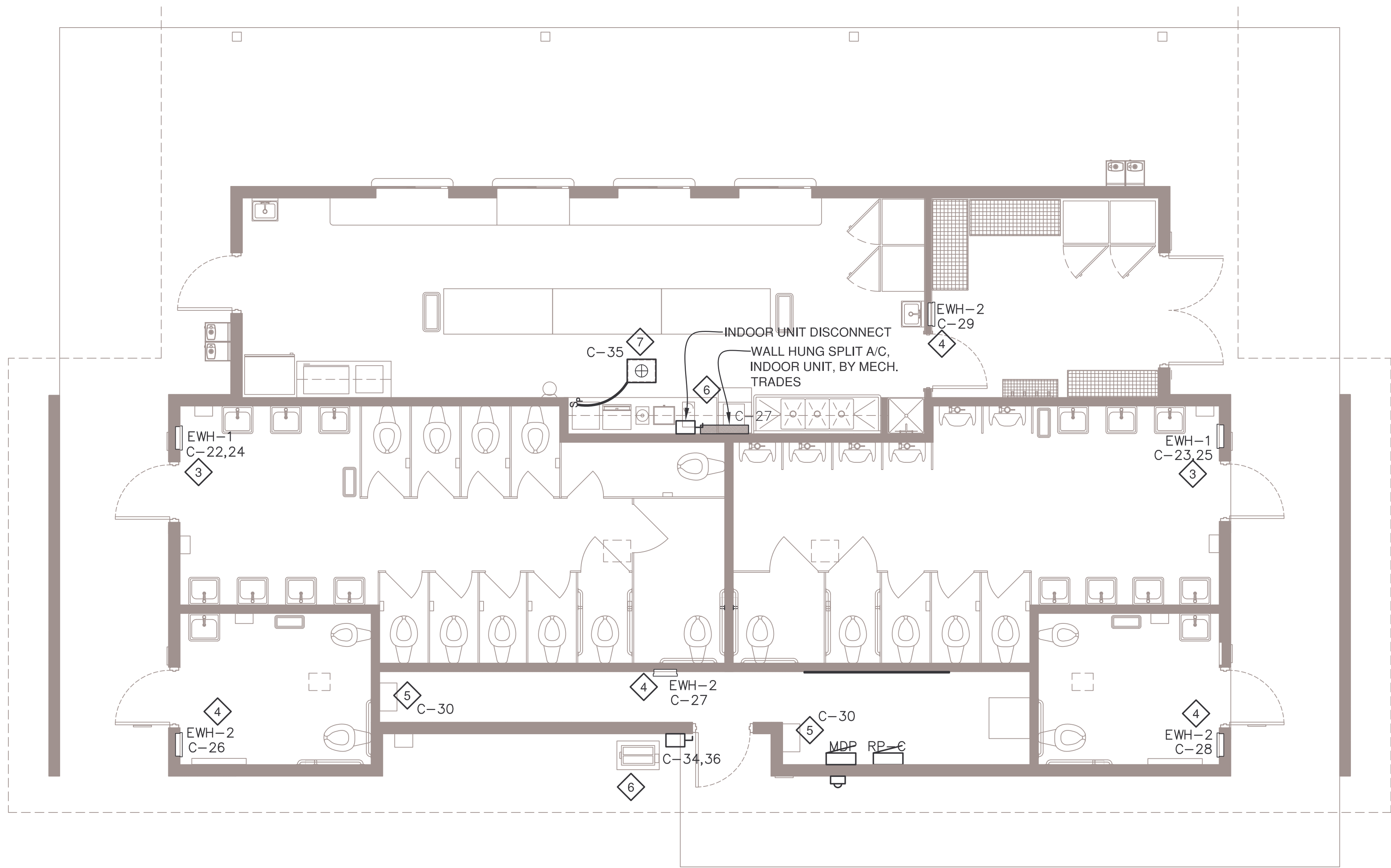
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NUMBER: MEI-191203

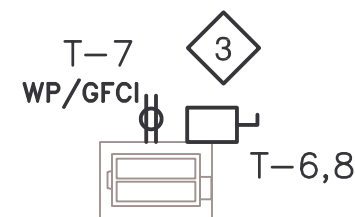
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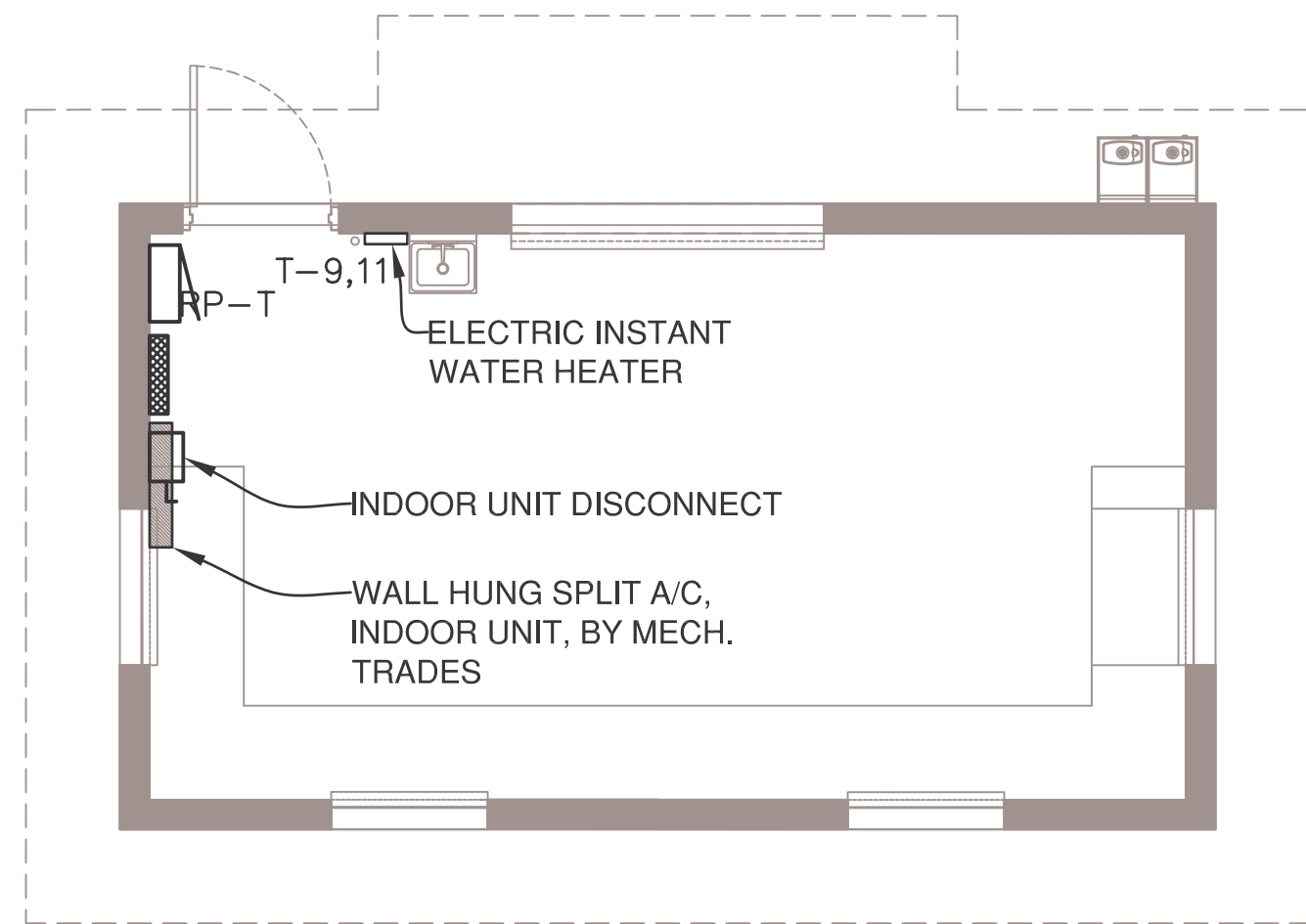


ELECTRICAL CONSTRUCTION - CONCESSION STAND - MECHANICAL PLAN

SCALE: 1/4"=1'-0"



- REFERENCE NOTES:**
- 3 ELECTRIC WALL HEATER, BY MECH. TRADES. 208V, 1-P, 4000 WATTS. FIELD VERIFY EXACT CONNECTION REQUIREMENTS. CIRCUIT AS NOTED.
 - 4 ELECTRIC WALL HEATER, BY MECH. TRADES. 208V, 1-P, 1500 WATTS. FIELD VERIFY EXACT CONNECTION REQUIREMENTS. CIRCUIT AS NOTED.
 - 5 TANKLESS (INSTANT) WATER HEATER, BY MECH. TRADES. 120V, 1-P, 4A. FIELD VERIFY EXACT CONNECTION REQUIREMENTS. CIRCUIT AS NOTED.
 - 6 SPLIT A/C UNIT, BY MECH. TRADES. 208V, 1-P, 13.0 MCA. PROVIDE 30A, 240V, 2-P, NF SAFETY SWITCH IN NEMA 3R ENCLOSURE FOR OUTDOOR UNIT. PROVIDE DISCONNECTING MEANS, AS REQUIRED, FOR THE INDOOR UNIT. CIRCUIT AS NOTED.
 - 7 FRACTIONAL HP EX. FAN, BY MECH. TRADES. 120V, 155 WATTS. PROVIDE LOCAL DISCONNECTING MEANS AS REQUIRED, ON/OFF CONTROL VIA 20 AMP, 1-POLE PILOT LIGHT SWITCH, AS SHOWN.



ELECTRICAL CONSTRUCTION -
TICKET BOOTH - MECHANICAL PLAN

SCALE: 1/4"=1'-0"

- REFERENCE NOTES:**
- 3 SPLIT A/C UNIT, BY MECH. TRADES. 208V, 1-P, 10.0 MCA. PROVIDE 30A, 240V, 2-P, NF SAFETY SWITCH IN NEMA 3R ENCLOSURE FOR OUTDOOR UNIT. PROVIDE DISCONNECTING MEANS, AS REQUIRED, FOR THE INDOOR UNIT. CIRCUIT AS NOTED.



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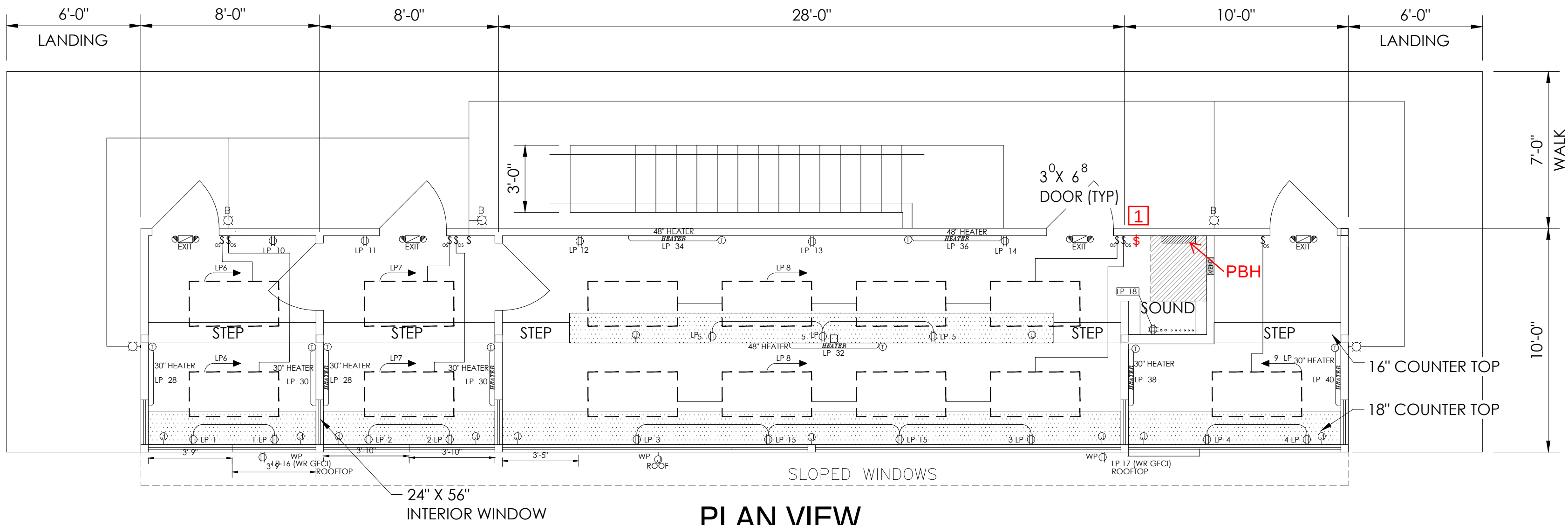
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110 MAIN STREET
DUNDEE, MICHIGAN 48131

ISSUE	DATE

BIDDING 01/10/20

PROJECT
NUMBER: MEI-191203
DRAWN: RSS
CHECKED: AFM

E4.0



PLAN VIEW

CONDUIT WILL BE 1/2" EMT, 1/2" STEELFLEX, OR SURFACE RACEWAY UNLESS OTHERWISE NOTED

WIRING ON 20A BREAKERS WILL BE #12 = THWN - THHN

EQUIPMENT GROUND RUN IN ALL CONDUITS OR NON-METALLIC SURFACE RACEWAYS

PANEL FEEDER, NEUTRAL, BONDING, AND GROUNDING TO BE ACCORDING TO APPLICABLE CODES ADOPTED BY THE LOCAL AHJ ON SITE BY ELECTRICAL CONTRACTOR.

PANEL BONDED TO METAL BUILDING FRAME BY PRESS BOX MANUF.

METAL CHASE TO FLOOR AND CEILING		LOAD CENTER SCHEDULE					
		GENERAL ELECTRIC #TLM2020CCU					
PANEL	LP	200 AMP RATED - 32 CIRCUIT W/ EQUIPMENT GROUND				208-240/120 VOLTS	1 PH.
MOUNTING:		☐ FLUSH	☒ SURFACE	22,000 SYN. A.I.C. MIN.	200	AMP MAIN BREAKER	
	BREAKER	CIR.	BUS		CIR.	BREAKER	
	SIZE POLE	#	A	B	#	SIZE POLE	
(2) RECPT. FRONT WALL	20 1	1	●	—	2	20 1	(2) RECPT. FRONT WALL
(2) RECPT. FRONT WALL	20 1	3	●	—	4	20 1	(2) RECPT. FRONT WALL
(3) RECPT. SECOND TIER COUNTER	20 1	5	—	●	6	20 1	(2 2'x4' LED LIGHT PANEL
(2) 2'x4' LED LIGHT PANEL	20 1	7	—	●	8	20 1	(8) 2'x4' LED LIGHT PANEL
(1) 2'x4' LED LIGHT PANEL	20 1	9	●	—	10	20 1	RECPT. BACK WALL
RECPT. BACK WALL	20 1	11	●	—	12	20 1	RECPT. BACK WALL
RECPT. BACK WALL	20 1	13	—	●	14	20 1	RECPT. BACK WALL
(2) RECPT. FRONT WALL	20 1	15	—	●	16	20 1	WR GFCI RECPT. ROOFTOP
WR GFCI RECPT. ROOFTOP	20 1	17	●	—	18	20 1	DOUBLE DUPLEX RECPT.
SPARE	20 1	19	●	—	20	20 1	SPARE
SPARE		21	—	●	22		SPARE
SPARE		23	—	●	24	20 1	36" BASEBOARD HEATER
SPACE		25	●	—	26	20 1	36" BASEBOARD HEATER
SPACE		27	●	—	28	20 1	30" BASEBOARD HEATER
SPACE		29	—	●	30	20 1	30" BASEBOARD HEATER
SPACE		31	—	●	32	20 1	48" BASEBOARD HEATER
SPACE		33	●	—	34	20 1	48" BASEBOARD HEATER
SPACE		35	●	—	36	20 1	48" BASEBOARD HEATER
SPACE		37	—	●	38	20 1	30" BASEBOARD HEATER
SPACE		39	—	●	40	20 1	30" BASEBOARD HEATER

2'X4' EDGELIT LED PANEL (WHITE)
RAB LIGHTING EZPANFA2X4/D10 OR EQUAL
DRIVER INFO:
CONSTANT CURRENT, CLASS 2, 4 CHANNEL
W/ 0-10V DIMMING, 120-277VAC
0.26A @ 120V, INPUT WATTS: 29.6W

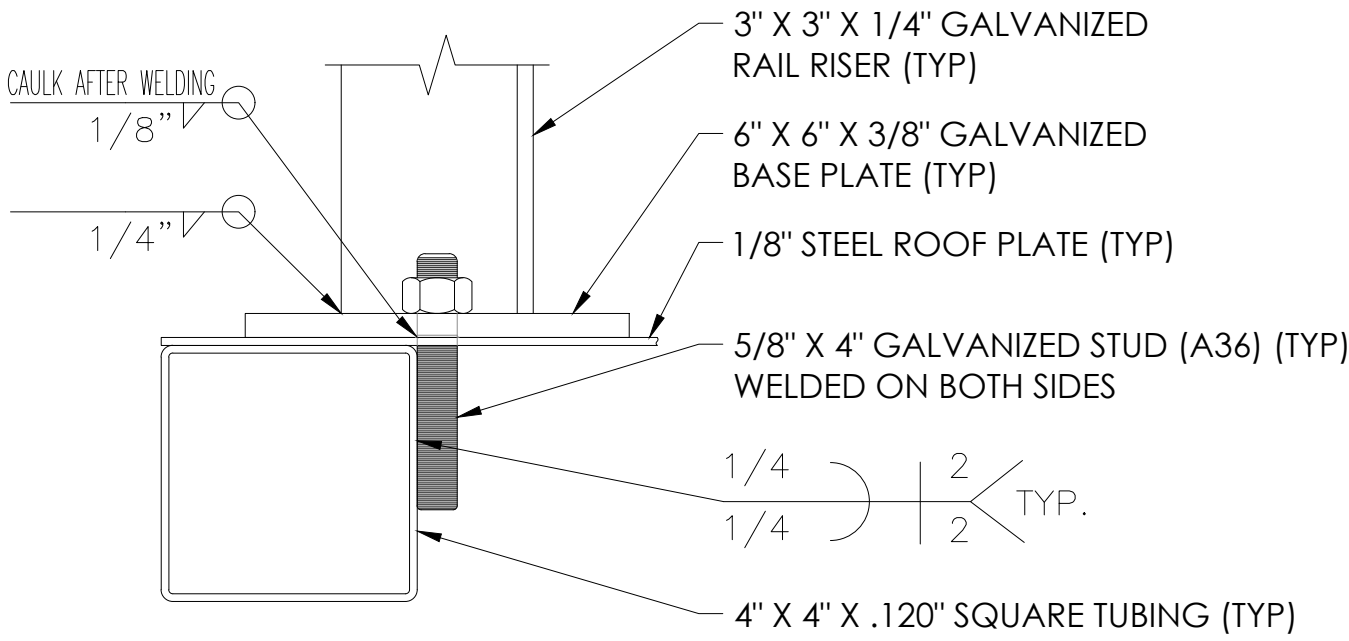
WP 12W LED EXTERIOR LIGHT W/PHOTOCELL

BATTERY BACK UP EMERGENCY/EXIT LIGHT
CONNECT TO LIGHT CIRCUIT AHEAD OF SWITCH. NEC 700.12 (F)

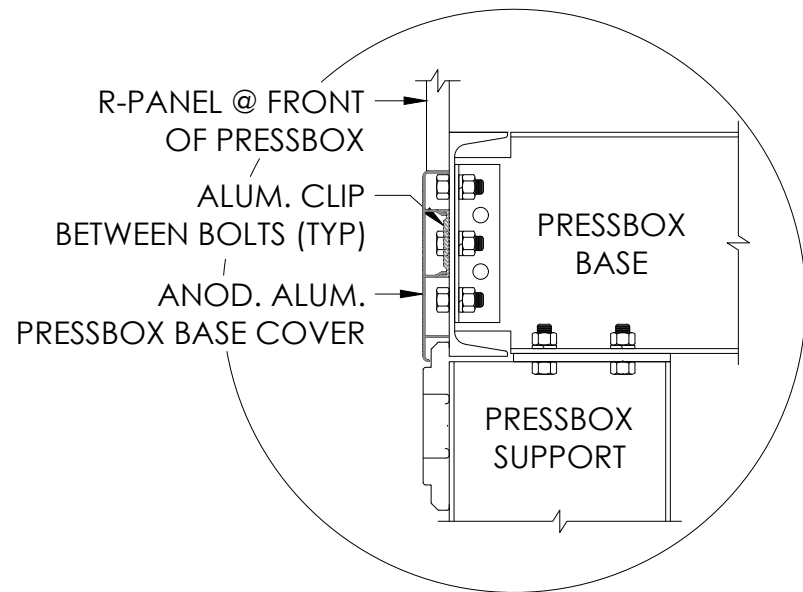
VERIFY LOCATION OF ANY SOUND/DATA EQUIPMENT

PRESS BOX EXTERIOR COMPONENTS COLOR SELECTION SCHEDULE PLEASE MARK COLOR SELECTIONS FOR EACH MATERIAL ITEM ON THIS SCHEDULE.						
MATERIALS						
WINDOW FRAMES						
WHITE						
BRONZE						
TAN						
SILVER						
STANDARD COLORS						
HAWAIIAN BLUE						
CRIMSON RED						
FERN GREEN						
BURNISHED SLATE						
POLAR WHITE						
ASH GREY						
SADDLE TAN						
DESERT SAND						
KOKO BROWN						
SOLAR WHITE						
CHARCOAL GREY						
COBALT BLUE						
RUSTIC RED						
LIGHT STONE						
MEDIUM BRONZE						
SNOW WHITE						
SLATE GRAY						
ALMOND						
CLASSIC GREEN						
BROWNSTONE						
BRITE RED						
HARBOR BLUE						
BONE WHITE						
COAL BLACK						
ORANGE						
PLEASE NOTE ANY NON-STANDARD MATERIALS, FINISHES, FLOORING, OR FIXTURES:						

NOTE:
THIS SHEET IS SHOWN FOR INFORMATION ONLY. ALL ELECTRICAL INTERNAL TO THE PRESS BOX WILL BE BY THE PRESS BOX VENDOR. THE EC SHALL PROVIDE THE ELECTRICAL SERVICE TO THE PRESS BOX ELECTRICAL PANEL AS WELL AS THE ADDITIONAL WORK CALLED OUT BY THE REFERENCE NOTES.



ROOF RAIL ATTACHMENT
NOT TO SCALE OPTIONAL ROOF RAILING



PRESSBOX BASE TRIM DETAIL
NOT TO SCALE

20A. 125V. DOUBLE DUPLEX RECPT. (QUAD)
20A. 125V. DUPLEX RECPT. (GFCI WHERE NOTED)
15A. 125V. LED DIMMER STYLE SWITCH os - WITH MANUAL ON/OFF OCCUPANCY SENSOR

4X4X2 1/8" COMMS/DATA JUNCTION BOX
W/ 3/4" C STUBOUT UNDER FLOOR
WP STUBBED INTO CEILING SPACE FOR USE BY OTHERS

BB HEATER
BASEBOARD HEATER
30"= 500W.-120V.- 4.2 A.
BERCO BKOC25126W OR EQUAL

BB HEATER
BASEBOARD HEATER
48"= 1000W.-120V.- 8.3 A.
BERCO BKOC2514W OR EQUAL

BB HEATER
BASEBOARD HEATER
36"= 750W.-120V.- 6.3 A.
BERCO BKOC2513W OR EQUAL

NOTE:
120V. DUPLEX RECPT. ARE LOCATED IN ONE END OF BASEBOARD HEATERS USING ACCESSORY COVER BKORA1. THERMOSTAT IN THE OTHER END - COVER BKOTA1A W/ THERMOSTAT TA2A.
WALL RECPT. ARE NOT ABOVE BB HEATERS.

ROOF PLATE STEEL IS WELDED ON BOTH SIDES OF RAFTERS WITH 1-1/2" LONG 1/8" FILLET WELDS ON 12" CENTERS.

WALL PANELS ARE ATTACHED WITH #12 TEK SCREWS - 6" O.C. AT THE TOP AND BOTTOM OF THE PANELS AND 12" O.C. AT ANY INTERMEDIATE BRACE. LAP SCREWS ARE PLACED AT EACH END OF THE PANELS, AT THE INTERMEDIATE SUPPORTS, AND AT THE MID POINT BETWEEN SUPPORTS. (TEK #14)

FLOOR PLANK ATTACHED WITH (2)-MILL ALUMINUM HOLD DOWN CLIP w/ 5/16"x1" CARRIAGE SCREW AND 5/16" FLANGE NUT AT EACH W10X12. FRONT (END) FLOOR PLANK ATTACHED TO W10X12 WITH (2)-COUNTERSUNK 2" TEK SCREWS PER END OF PLANK AND AT INTERMEDIATE SUPPORTS.

- REFERENCE NOTES:
- CIRCUIT THE TYPE A FIXTURES UNDER THE BLEACHERS TO THIS CIRCUIT. PROVIDE A 20A, 120V, 1-P SWITCH FOR ON/OFF CONTROL OF THE LIGHTS
 - POWER FOR WP/GFCI RECEPTACLES AT THE BASES OF POLES F1 & F2
 - POWER FOR 20A, 1-P CIRCUIT IN THE ELECTRICAL GROUND BOXES ON THE PRESS BOX SIDE OF THE TRACK. PROVIDE 20A, 1-P CIRCUIT BREAKERS FOR THE SPACES
 - POWER FOR NORTH SCORE BOARD. PROVIDE 20A, 1-P CIRCUIT BREAKER FOR THE SPACE
 - POWER FOR THE NORTH PLAY CLOCK. PROVIDE A 20A, 1-P CIRCUIT BREAKER FOR THE SPACE.

DETAIL NUMBER
1-10
SHEET SHOWN ON
3
SHEET CUT FROM

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NOT FOR CONSTRUCTION

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Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

Southern
BLEACHER COMPANY

GRANDSTANDS • BLEACHERS • STADIUMS

TYPE
PRESS BOX SHEET 1
10'-0" X 54'-0" PRESS BOX

FILE
DUNDEE HIGH SCHOOL
HOME EXPANSION & VISITOR
DUNDEE, MICHIGAN

DATE
11/11/19

BY
WMS

DESCRIPTION
JOB NUMBER
19SD313

CHECKED
LD

SHEET
5

OF
7

22" X 34" (11x17 = 1/2 indicated scale)