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Pocatello / Chubbuck School District 25
Education Center Parking Lot

Addendum No. 2

April 8, 2019

The following addendum is to modify the original documents.

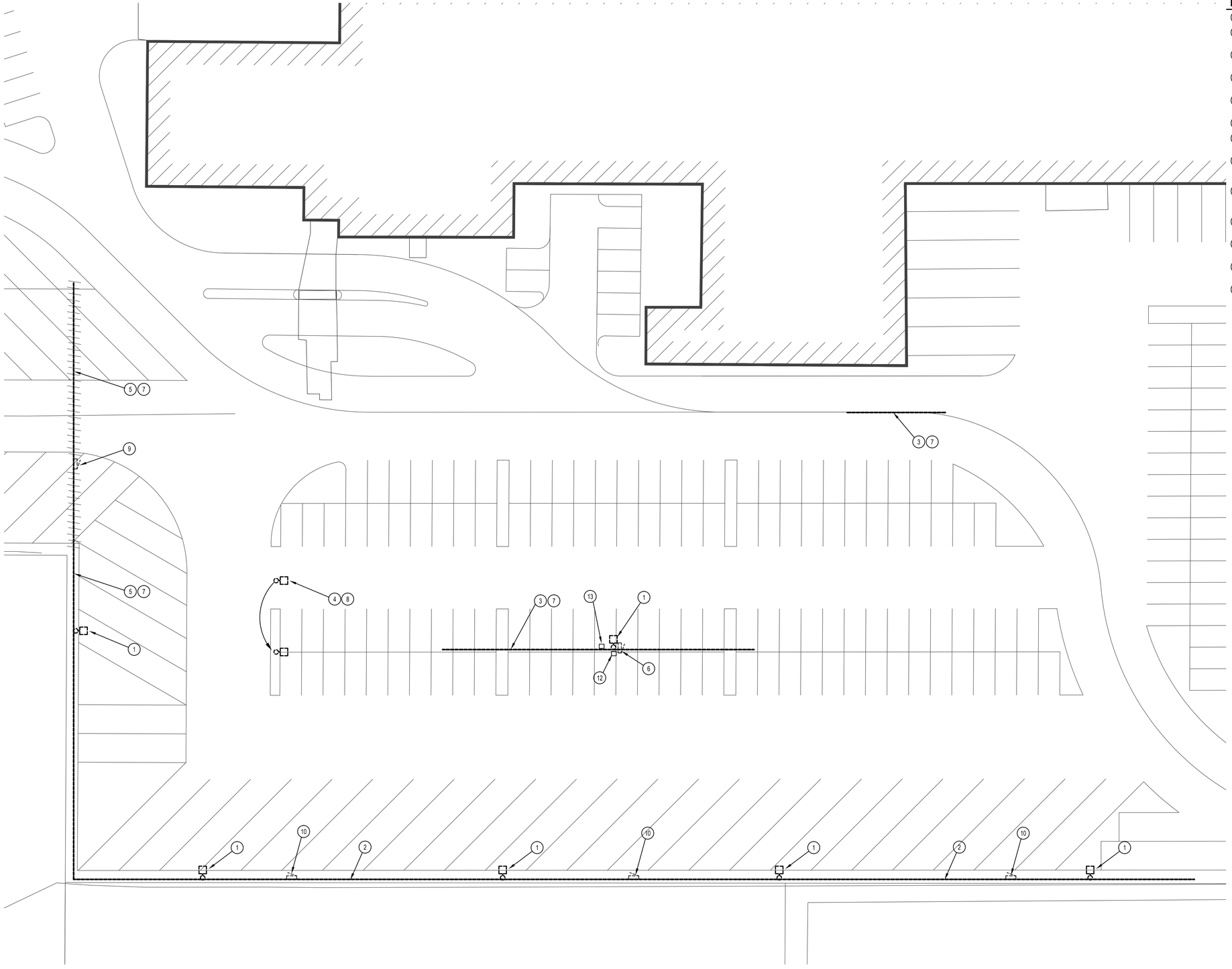
Addendum Items

1. Electrical Drawings sheets E1.0, E2.0, E3.0 (attached PDF). Addendum No. 1 contained a copy of the civil rather than the electrical. I apologize for the late email and confusion.

End of Addendum No. 2

Ted Booth, Architect, AIA

Booth Architecture, PLLC



KEY NOTES

1. EXISTING LIGHT POLE TO REMAIN. E.C. SHALL PROTECT DURING CONSTRUCTION.
2. EXISTING BUS POWER RAIL TO REMAIN. E.C. SHALL PROTECT, MAINTAIN AND/OR RESTORE ELECTRICAL SERVICE TO ALL DEVICES ON THIS RAIL.
3. DISCONNECT AND REMOVE EXISTING BUS POWER RAIL AND ALL ASSOCIATED CONDUIT AND WIRE. REMOVE ALL UNUSED CONDUCTORS BACK TO NEXT ACTIVE BOX OR SOURCE.
4. DISCONNECT AND REMOVE EXISTING LIGHT POLE AND FOUNDATION IN CONFLICT WITH REMODEL. MAINTAIN OR REESTABLISH ELECTRICAL CONTINUITY TO ALL EXISTING FIXTURES TO REMAIN.
5. E.C. SHALL DISCONNECT EXISTING BUS POWER RAIL IN CONFLICT WITH REMODEL. PROTECT, MAINTAIN OR REESTABLISH ELECTRICAL SERVICE TO THE REMAINING SOUTHERN PORTION.
6. E.C. SHALL PROTECT AND MAINTAIN EXISTING NEMA 3R PANEL TO REMAIN.
7. E.C. MAY UTILIZE EXISTING GFCI DEVICES, BOXES, STRAIN RELIEF AND CORDS THAT ARE IN GOOD CONDITION, AND CONFORM TO THE NEW DESIGN.
8. RELOCATE EXISTING POLE TO NEW LOCATION. PROVIDE AND INSTALL NEW FOUNDATION AND ANCHOR BOLTS. INTERCEPT EXISTING CONDUITS AND REROUTE TO NEW LOCATION. INSTALL NEW CONDUCTORS AND CONNECT TO EXISTING CONTROLS.
9. CAREFULLY REMOVE EXISTING BUS POWER PANEL. RELOCATE TO NEW RAIL LOCATION. INTERCEPT AND REWORK EXISTING FEEDER TO NEW LOCATION. PROVIDE CIRCUITS TO EACH BUS PLUG.
10. EXISTING PANEL TO REMAIN. REWORK BRANCH CIRCUITS AS REQUIRED TO PROVIDE (1) CIRCUIT FOR EACH BUS STALL.
11. DISCONNECT AND REMOVE EXISTING 1 1/2" CONDUIT AND EXISTING FEEDER. REMOVE BACK TO SOURCE AND LABEL SPARE.
12. E.C. SHALL PROTECT AND MAINTAIN EXISTING POST AND EXISTING J-BOX ADJACENT TO EXISTING LIGHT POLE.
13. E.C. SHALL RELOCATE THIS EXISTING J-BOX TO EXISTING POST TO REMAIN. INTERCEPT CONDUITS AND EXTEND TO NEW LOCATION. REPLACE ALL EXISTING CONDUCTORS WITH NEW AND RECONNECT.

PARTIAL SITE PLAN - EXISTING ELECTRICAL

SCALE: 1" = 20' - 0"

0" 10' 20' 40'

N

Wash Bay Project for:

EDUCATION CENTER PARKING LOT

3115 POLE LINE ROAD
POCATELLO, IDAHO

BOOTH Architecture PLLC
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ORIGINAL SIGNED BY:
TODD E. PAYNE
DATED ORIGINAL SIGNED:
4-1-2019
ON FILE AT:
PAYNE ENGINEERING INC.

PROFESSIONAL ENGINEER REGISTERED 8270 STATE OF IDAHO TODD PAYNE

P.E. JOB #1924

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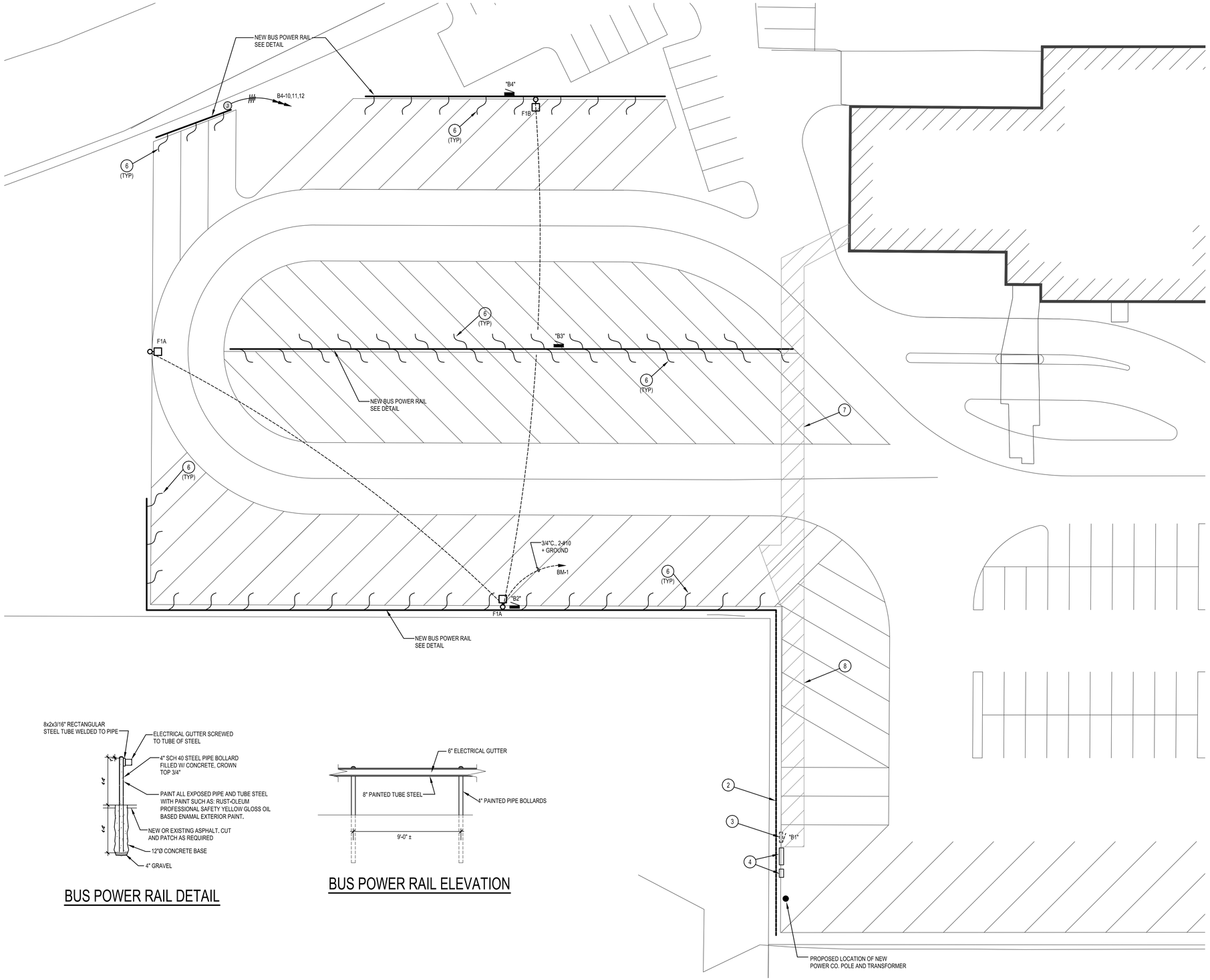
EXISTING ELECTRICAL PLAN

Date 03/26/2019

Sheet No. E1.0

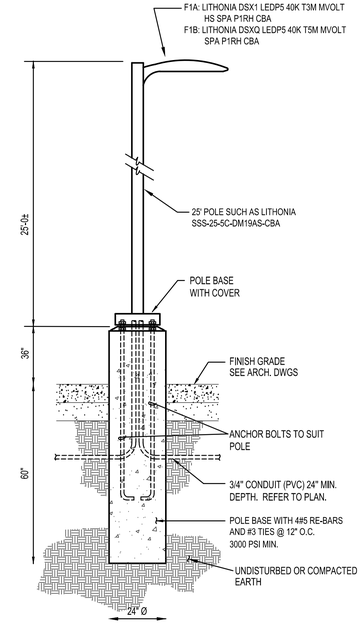


KEY NOTES

1. NEW PANEL. MOUNT TO POST AT RAIL, SEE DETAIL.
2. E.C. SHALL RELOCATE EXISTING 6x6 WIRE GUTTER AND BUS CORDS AND PLUGS TO THIS LOCATION AND MAKE ALL REQUIRED CONNECTIONS TO PLACE THESE DEVICES INTO SERVICE.
3. RELOCATED BUS POWER PANEL. CONNECT TO NEW SERVICE. SEE POWER RISER.
4. PROVIDE AND INSTALL A NEW 320A 120/240V. 1Ø SERVICE METER AND PANEL ON UNISTRUT STRUCTURE. SEE POWER RISER.
5. PROVIDE AND INSTALL A 6x6" NEMA 3R WIRE GUTTER TO MATCH EXISTING. MOUNT TO NEW BUS RAIL. PROVIDE ALL REQUIRED COMPONENTS FOR A COMPLETE SYSTEM.
6. E.C. SHALL PROVIDE AND INSTALL A 12FT, 2/12 WITH GROUND WEATHERPROOF SO CORD WITH STRAIN RELIEF AT WIREWAY AND NEMA 5-20R CORD END. RECEPTACLE CONFIGURATION TO MATCH EXISTING. SUPPLY (1) FOR EACH BUS PARKING STALL.
7. CUT, PATCH AND REPAIR EXISTING ASPHALT AS REQUIRED FOR INSTALLATION OF NEW PANEL FEEDERS AND CONTROL CONDUIT TO BUILDING.
8. PROVIDE AND INSTALL A 1" CONDUIT WITH 4#12 CONDUCTORS TO EXISTING BUILDING, RISE UP EXTERIOR WALL, THEN LB THROUGH WALL AT EXISTING CABLE TRAY HEIGHT. TERMINATE CONDUCTORS IN J-BOX AT THIS LOCATION FOR USE BY OWNER.

BUS POWER RAIL DETAIL

BUS POWER RAIL ELEVATION



F1 POLE LIGHT MOUNTING DETAIL

PARTIAL SITE PLAN - ELECTRICAL

SCALE: 1" = 20' - 0"

0" 10' 20' 40'

N

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ELECTRICAL PLAN

Date
03/26/2019

Sheet No. E2.0

PANEL "B2"

CLASS 120/240V 1Ø 3W | LOCATION - | MAKE/MODEL SQ D QO (NEMA 3R)

☐ MAIN BRKR. ____ AMPS ☑ FEED BOTTOM ☑ SURFACE
☑ MAIN LUGS ONLY 125 ☐ FEED TOP ☐ FLUSH
☐ MAIN SW. ____ AMPS DIMENSIONS 20"x39"x5 3/4"

LOAD NAME	CIR NO.	LOAD WATTS	BRK AMP	Ø'S	LOAD/POLE A	LOAD/POLE B	Ø'S	BRK AMP	LOAD WATTS	CIR NO.	LOAD NAME
BUS POWER CORD (1)	1	1000	20	1	2000		1	20	1000	2	BUS POWER CORD (1)
	3	1000				2000			1000	4	
	5	1000			2000				1000	6	
	7	1000				2000			1000	8	
	9	1000			2000				1000	10	
	11	1000				2000			1000	12	
	13	1000			2000				1000	14	
	15	1000				2000			1000	16	
	17	1000			2000				1000	18	
	19	1000				1000				20	SPARE (1)
PREPARED SPACE	21									22	PREPARED SPACE
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

TOTAL LOAD/PHASE WATTS 10000 9000 | AMPS 83 75
FEEDER CONDUCTOR SIZE: SEE RISER | S.C. INT CAP/BKR. 10K AMPS.
REMARKS: (1) GFCI BREAKER, GROUND PER NEC | CONDUIT SIZE SEE RISER

PANEL "B3"

CLASS 120/240V 1Ø 3W | LOCATION - | MAKE/MODEL SQ D QO (NEMA 3R)

☐ MAIN BRKR. ____ AMPS ☑ FEED BOTTOM ☑ SURFACE
☑ MAIN LUGS ONLY 225 ☐ FEED TOP ☐ FLUSH
☐ MAIN SW. ____ AMPS DIMENSIONS 20"x39"x5 3/4"

LOAD NAME	CIR NO.	LOAD WATTS	BRK AMP	Ø'S	LOAD/POLE A	LOAD/POLE B	Ø'S	BRK AMP	LOAD WATTS	CIR NO.	LOAD NAME
BUS POWER CORD (1)	1	1000	20	1	2000		1	20	1000	2	BUS POWER CORD (1)
	3	1000				2000			1000	4	
	5	1000			2000				1000	6	
	7	1000				2000			1000	8	
	9	1000			2000				1000	10	
	11	1000				2000			1000	12	
	13	1000			2000				1000	14	
	15	1000				2000			1000	16	
	17	1000			2000				1000	18	
	19	1000				2000			1000	20	
	21	1000			2000				1000	22	
	23	1000				2000			1000	24	
	25	1000			2000				1000	26	
	27	1000				1000				28	SPARE (1)
SPARE (1)	29									30	SPARE (1)
PREPARED SPACE	31									32	PREPARED SPACE
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

TOTAL LOAD/PHASE WATTS 14000 13000 | AMPS 116 108
FEEDER CONDUCTOR SIZE: SEE RISER | S.C. INT CAP/BKR. 10K AMPS.
REMARKS: (1) GFCI BREAKER, GROUND PER NEC | CONDUIT SIZE SEE RISER

PANEL "B4"

CLASS 120/240V 1Ø 3W | LOCATION - | MAKE/MODEL SQ D QO (NEMA 3R)

☐ MAIN BRKR. ____ AMPS ☑ FEED BOTTOM ☑ SURFACE
☑ MAIN LUGS ONLY 125 ☐ FEED TOP ☐ FLUSH
☐ MAIN SW. ____ AMPS DIMENSIONS 20"x39"x5 3/4"

LOAD NAME	CIR NO.	LOAD WATTS	BRK AMP	Ø'S	LOAD/POLE A	LOAD/POLE B	Ø'S	BRK AMP	LOAD WATTS	CIR NO.	LOAD NAME
BUS POWER CORD (1)	1	1000	20	1	2000		1	20	1000	2	BUS POWER CORD (1)
	3	1000				2000			1000	4	
	5	1000			2000				1000	6	
	7	1000				2000			1000	8	
	9	1000			2000				1000	10	
	11	1000				2000			1000	12	
SPARE (1)	13									14	SPARE (1)
PREPARED SPACE	15									16	PREPARED SPACE
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

TOTAL LOAD/PHASE WATTS 6000 6000 | AMPS 50 50
FEEDER CONDUCTOR SIZE: SEE RISER | S.C. INT CAP/BKR. 10K AMPS.
REMARKS: (1) GFCI BREAKER, GROUND PER NEC | CONDUIT SIZE SEE RISER

PANEL "BM"

CLASS 120/240V 1Ø 3W | LOCATION - | MAKE/MODEL SQ D NQ (NEMA 3R)

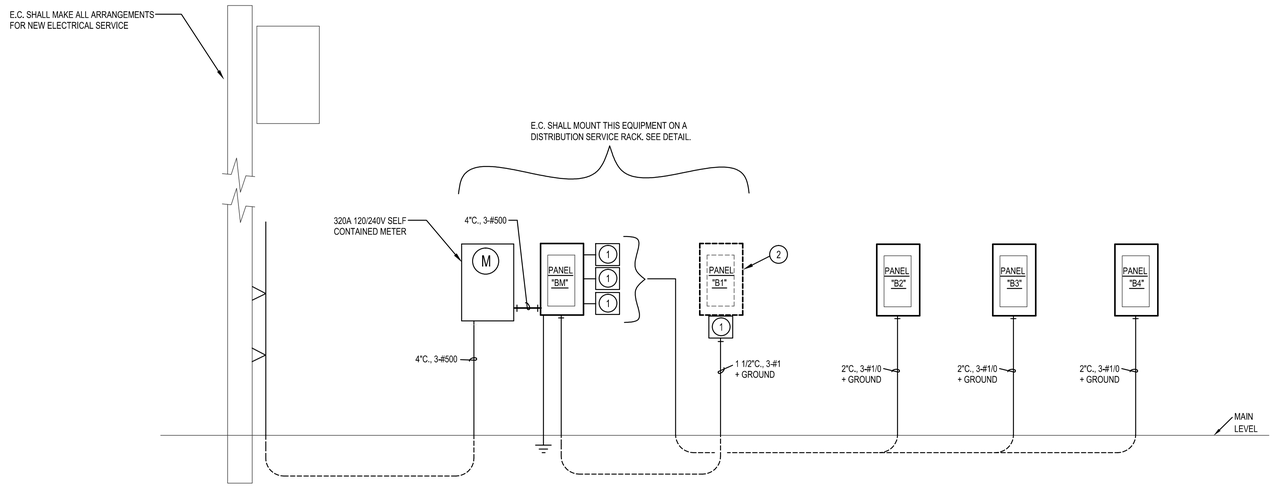
☑ MAIN BRKR. 400 AMPS ☑ FEED BOTTOM ☑ SURFACE
☐ MAIN LUGS ONLY ☐ FEED TOP ☐ FLUSH
☐ MAIN SW. ____ AMPS DIMENSIONS 20"x39"x5 3/4"

LOAD NAME	CIR NO.	LOAD WATTS	BRK AMP	Ø'S	LOAD/POLE A	LOAD/POLE B	Ø'S	BRK AMP	LOAD WATTS	CIR NO.	LOAD NAME
EXTERIOR LIGHTING	1	500	20	2	6500		2	125	6000	2	PANEL-"B1"
-	3	500	-	-		6500	-	-	6000	4	-
SPARE	5		20	1	10000		2	125	10000	6	PANEL-"B2"
	7					9000	-	-	9000	8	-
	9				14000		2	125	14000	10	PANEL-"B3"
	11					13000	-	-	13000	12	-
	13				6000		2	125	6000	14	PANEL-"B4"
	15					6000	-	-	6000	16	-
PREPARED SPACE	17									18	PREPARED SPACE
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

TOTAL LOAD/PHASE WATTS 36500 34500 | AMPS 304 287
FEEDER CONDUCTOR SIZE: SEE RISER | S.C. INT CAP/BKR. TO BE DETERMINED AMPS.
REMARKS: | CONDUIT SIZE SEE RISER

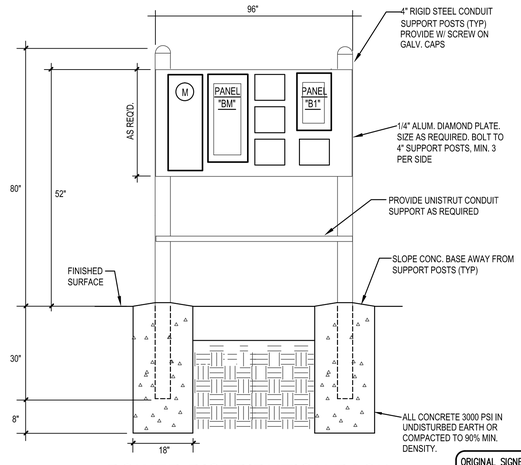
KEY NOTES

1. 125A 2P 240V. LIGHTING CONTACTOR IN NEMA 3R ENCLOSURE.
2. EXISTING PANEL RELOCATED AND RE FED FROM NEW ELECTRICAL SERVICE.



POWER RISER DIAGRAM

NO SCALE



POWER DISTRIBUTION RACK

ELECTRICAL SPECIFICATIONS

1. INTENT:
Provide and install complete and operable electrical systems including but not limited to; lighting, power, receptacles, data, fire alarm ande etc.
Provide all required connections to all Mechanical and Plumbing equipment, as indicated and required, including all conduits, wiring and controls. Coordinate with mechanical contractor and drawings.

2. COMPLIANCE WITH CODES:
All work and material shall comply with all applicable codes, safety orders, laws, ordinances and regulations of governing authorities and other agencies having jurisdiction including regulations of the State and Local Fire Marshall, unless detailed as specified to a more restrictive standard or higher requirement.

3. INTERPRETATION OF DRAWINGS:
The electrical drawings are essentially diagrammatic in that all provisions necessary to conform to structural, architectural, mechanical and plumbing systems can not be shown. All installations shall be adjusted as necessary to conform and to avoid obstructions, without additional cost to the owner.
All work, material and equipment called for by notes, schedules or otherwise indicated on the drawings shall be furnished and installed as though fully set forth in these specifications.

4. VISITING THE SITE:
Contractor shall visit the site and become acquainted with conditions to be encountered. Extra funds will not be allowed due to failuer to examine the site and to included existing conditions in bid price.

5. COORDINATION WITH UTILITIES:
These plans have been prepared without utility company comments. The contractor shall verify exact requirements for the electrical, telephone and communication services with the utility company representatives and provide all work and pay all costs for a complete and operating systems, as directed by the governing utilities.

6. MATERIALS AND WORKMANSHIP:
All workmanship shall be performed by skilled electricians using the best standard practives of the trade. All materials shall, unless otherwise noted, be new and in perfect condition and working order. All material for similar uses shall be of the same type, material and manufacturer for ease of future maintaenance.
All equipment shall be readily accessible for maintenance and repairs. All materials, fixtures and equipment shall be covered or sealed upon installation so as to provide for safety and to insure that operation and appearance will be maintained after subsequent construction operations.

7. EXECUTION:
Raceway installation: Seperate underground conduits in a common trench 4" minimum horizontally, 12" minimum from other utility lines. Minimum conduit depth shall be 18".
Coordinate conduit installation with pipes, steel, footings and ducts installed by other trades. Install conduit runs exposed to view parallel or at right angles to structural members, walls or building lines. Support conduit with one-hole malleable factory made pipe straps, fastended with screws.

8. OPERATING AND ADJUSTING:
The owner reserves the right to operate any systems of equipment prior to final comletion and acceptance of the work. Such perliminary operation shall not be construed as an acceptance of any work.
Each piece of equipment and all of the systems shall be adjusted to insure proper functioning and shall be left in first class operating condition.

9. CUTTING AND PATCHING:
Do all drilling and cutting as necessary for installation of equipment or conduit. Cutting or drilling of structure is only permitted with prior approval of the owner and structural engineer.
Where cutting and patching of work is necessary, use the same materials, workmanship and finish to neatly match all surrounding work.

10. CONDUIT:
All conduit material and installation methods shall be as allowed by the NEC, local AHJ and as directed by the owner.

11. CONDUCTORS:
Type THWN or THHN copper wire insulated for 600V.
Smallest wire shall be #14 AWG unless noted otherwise.
All wiring shall be Copper unless indicated otherwise.
Type MC cable shall be permitted, provided it is installed in concealed areas and installation complies with the Local AHJ and NEC requirements.
Type NM cable is NOT allowed.
Use "Ideal Yellow" pulling compound for all wire pulls.
Use Scotchlock connectors for all splices in #12 wire and tape bolted pressure connectors for larger wire.

12. GROUNDING:
All conduit, branch circuits, feeders and etc. shall be provided with a grounding conductor. All grounding conductors shall be insulated and green in color, size as shown.

13. WIRING DEVICES:
Devices shall be Standard type, Specification grade, Color to match existing. Decora style devices are prohibited.
Utilize GFCI and Tamper-proof devices in all locations as defined by the NEC.
Wiring devices shall be as installedas allowed by theNEC, local AHJ.

14. DEVICE PLATES:
Devices plates shall match existing.

15. LIGHTING FIXTURES:
As selected by owner and/or indicated in schedules. All light fixtures shall be installed and connected by the Electrical Contractor.

16. SERVICE EQUIPMENT & PANELBOARDS:
Service Equipment: Shall be rated as such and shall comply with local utility co. requirments. .
Panelbards: Shall be provided with typed written directories indicating loads being served.
Maintain all required clearances around equipment as required by the NEC.
All equpment dimensions to be field verified.

17. CLEAN-UP:
Upon completion of the work, prior to final inspection, thoroughly clean all exposed fixtures, trim and equipment and leave the entire installation in a neat, clean and usable condition. Remove all cement, paint, grease, oil and other foreign substances.

18. TEST:
Test all conductors for shorts, opens, grounds or other defects. Correct any defective work and re-test.
Demonstrate continuous satisfactory operation of all electrical systems and equipment.
Provide training to the owner on electrical systems as needed for owner operation and maintenance of building.

19. GUARANTEE:
Prior to final acceptacne of the project, deliver to the owner a written one year guarantee on all workmanship, materials and equipment and agree to repair or replace all such defective items promptly that may occure during the warranty period; including repair or replacement of the premises that may be damaged due to faulty work and materials furnished under contract.

ORIGINAL SIGNED BY: TODD E. PAYNE
DATED ORIGINAL SIGNED: 4-1-2019
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ELECTRICAL POWER RISER AND SCHEDULES

Date 03/26/2019

Sheet No. E3.0