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DEMOLITION NOTES

1. CONTRACTOR TO PROVIDE AIR DUST CONTROL
2. CONTRACTOR TO COMPLETE DEMOLITION FOR THE ENTIRE AREA OF THESE PLANS
3. THE CONTRACTOR WILL REMOVE ALL BUILDING MATERIALS AND/OR DEBRIS FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE PREVENTION OF AIR DUST AND WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE SURROUNDING AREA OR ANY OTHERS THAT MAY OCCUR DURING THE DEMOLITION PROCESS.
4. CONTRACTOR TO PROVIDE WATER SPRAY TO PREVENT THE SPREAD OF DUST OR DEBRIS TO THE ENVIRONMENT.
5. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
6. CONTRACTOR TO PROVIDE WATER SPRAY TO PREVENT THE SPREAD OF DUST OR DEBRIS TO THE ENVIRONMENT.
7. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
8. CONTRACTOR TO PROVIDE WATER SPRAY TO PREVENT THE SPREAD OF DUST OR DEBRIS TO THE ENVIRONMENT.
9. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
10. CONTRACTOR TO PROVIDE WATER SPRAY TO PREVENT THE SPREAD OF DUST OR DEBRIS TO THE ENVIRONMENT.
11. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
12. CONTRACTOR TO PROVIDE WATER SPRAY TO PREVENT THE SPREAD OF DUST OR DEBRIS TO THE ENVIRONMENT.
13. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
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15. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
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21. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
22. CONTRACTOR TO PROVIDE WATER SPRAY TO PREVENT THE SPREAD OF DUST OR DEBRIS TO THE ENVIRONMENT.
23. CONTRACTOR TO PROVIDE AIR DUST CONTROL AND SOLUTIONS TO PREVENT ANY DAMAGE TO THE SURROUNDING AREA.
24. CONTRACTOR TO PROVIDE WATER SPRAY TO PREVENT THE SPREAD OF DUST OR DEBRIS TO THE ENVIRONMENT.
LEGEND

- Heavy Duty Concrete Pavement
- Concrete Driveway
- Gravelpave Driveway

NOTE: GRAVelpave joints may be installed with the approval of the contractor representative.

DRIVE AREA WITH HEAVY DUTY CONCRETE PAVEMENT

EXISTING BUILDING

EXISTING CONCRETE DRIVE

MCCORY AVENUE

PROPOSED BUILDING

FF=874.62

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

ENGINEER OF RECORD
Terry M. Parsons, Engineer MO PE-2018010505
813.627.4017
816.471.3755
I-A-A.COM

MISSOURI STATE CERTIFICATE OF AUTHORITY #000582
912 BROADWAY BLVD, SUITE 300
KANSAS CITY, MO 64105

CIVIL / MEP CONSULTANT
OLSSON
1301 BURLINGTON STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
P: 816-361-1177

STRUCTURAL ENGINEER
BOB D. CAMPBELL & CO.
4338 BELLEVIEW AVE.
KANSAS CITY, MO 64111
P: 816-531-4144

NEVADA, MO
7/17/2020
ISSUED FOR BID
DEMO NOTES

DEMO ELEVATION

DEMO PLAN

INTERIOR WALL

EXISTING BUILDING NOT IN CONTRACT (N.I.C.)
NOTE:
• PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, NOTED MECHANICAL EQUIPMENT, AND DUCTWORK.
• REFER TO ELECTRICAL DRAWINGS FOR SCOPE OF WORK OUTSIDE OF NEW BUILDING ADDITION.
1. General Information
   A. All joists to be supported by and supported below connections with 6" long x 3/8" x 6" bearing plates and be welded to beams or bearing plates with 2 1/2" of 1/4" fillet weld each side (minimum).
   B. Structural engineering calculations and design details are to be prepared by a professional engineer.
   C. Steel joists shall have a midspan camber approximately equal to that of the joist camber calculated using the AISC Standard Load Table for 4 inch cover and 1/2 pound of steel per foot (minimum).

2. Structural Load Design Criteria
   A. Building live load 25 psf (840 pounds/ft²) from the live load tables of SJI Specifications.
   B. Snow load 20 psf (970 pounds/ft²) from the snow load tables of SJI Specifications.
   C. Roof live load 50 psf (2380 pounds/ft²) from the roof live load tables of SJI Specifications.
   D. Roof snow load 20 psf (970 pounds/ft²) from the roof snow load tables of SJI Specifications.
   E. Building wind load 70 mph (57 pounds/ft²) from the wind load tables of SJI Specifications.
   F. Building uplift 10 psf (470 pounds/ft²) from the uplift load tables of SJI Specifications.

3. Concrete
   A. All concrete to be in accordance with the American Concrete Institute (ACI) Code for Reinforced Concrete Structures.
   B. Concrete mix shop drawing shall contain testing data used.
   C. Concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder spacing).
   D. Concrete shall be placed in accordance with AISC Load Table for 4 inch cover and 1/2 pound of steel per foot.
   E. All exterior lintels to be galvanized.
   F. Concrete shall be placed in accordance with ACI Code for Reinforced Concrete Structures.
   G. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder spacing).
   H. Concrete shall be placed in accordance with ACI Code for Reinforced Concrete Structures.
   I. All concrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder spacing).
   J. Concrete shall be placed in accordance with ACI Code for Reinforced Concrete Structures.

4. Restricting Steel
   A. Restricting steel in accordance with the restrictions outlined in the 2015 AISC Steel Construction Manual.
   B. Restricting steel in accordance with the restrictions outlined in the 2015 AISC Steel Construction Manual.
   C. Restricting steel in accordance with the restrictions outlined in the 2015 AISC Steel Construction Manual.
   D. Restricting steel in accordance with the restrictions outlined in the 2015 AISC Steel Construction Manual.
   E. Restricting steel in accordance with the restrictions outlined in the 2015 AISC Steel Construction Manual.

5. Structural Steel
   A. AISC Steel Construction Manual to be used throughout the design process.
   B. AISC Steel Construction Manual to be used throughout the design process.
   C. AISC Steel Construction Manual to be used throughout the design process.
   D. AISC Steel Construction Manual to be used throughout the design process.
   E. AISC Steel Construction Manual to be used throughout the design process.

6. Post Installed Anchors
   A. Rigid x beams shall be designed as compressive elements in accordance with the standard load tables of SJI Specifications.
   B. Rigid x beams shall be designed as compressive elements in accordance with the standard load tables of SJI Specifications.
   C. Rigid x beams shall be designed as compressive elements in accordance with the standard load tables of SJI Specifications.
   D. Rigid x beams shall be designed as compressive elements in accordance with the standard load tables of SJI Specifications.
   E. Rigid x beams shall be designed as compressive elements in accordance with the standard load tables of SJI Specifications.

7. Post Tensioning
   A. Post Tensioning to be designed in accordance with the AISC Steel Construction Manual.
   B. Post Tensioning to be designed in accordance with the AISC Steel Construction Manual.
   C. Post Tensioning to be designed in accordance with the AISC Steel Construction Manual.
   D. Post Tensioning to be designed in accordance with the AISC Steel Construction Manual.
   E. Post Tensioning to be designed in accordance with the AISC Steel Construction Manual.

8. Concrete Masonry Units
   A. Concrete masonry units shall be placed in accordance with the American Concrete Institute (ACI) Code for Masonry Structures.
   B. Concrete masonry units shall be placed in accordance with the American Concrete Institute (ACI) Code for Masonry Structures.
   C. Concrete masonry units shall be placed in accordance with the American Concrete Institute (ACI) Code for Masonry Structures.
   D. Concrete masonry units shall be placed in accordance with the American Concrete Institute (ACI) Code for Masonry Structures.
   E. Concrete masonry units shall be placed in accordance with the American Concrete Institute (ACI) Code for Masonry Structures.

9. Light Gauge Metal Structural Framing
   A. Light Gauge Metal Structural Framing to be designed in accordance with the AISC Steel Construction Manual.
   B. Light Gauge Metal Structural Framing to be designed in accordance with the AISC Steel Construction Manual.
   C. Light Gauge Metal Structural Framing to be designed in accordance with the AISC Steel Construction Manual.
   D. Light Gauge Metal Structural Framing to be designed in accordance with the AISC Steel Construction Manual.
   E. Light Gauge Metal Structural Framing to be designed in accordance with the AISC Steel Construction Manual.

10. Shop Drawing Review
    A. Shop drawings shall be submitted for review and approval prior to construction.
    B. Shop drawings shall be submitted for review and approval prior to construction.
    C. Shop drawings shall be submitted for review and approval prior to construction.
    D. Shop drawings shall be submitted for review and approval prior to construction.
    E. Shop drawings shall be submitted for review and approval prior to construction.

11. Soil and Geotechnical Investigations
    A. Soil investigation to be performed by Olsson Associates.
    B. Soil investigation to be performed by Olsson Associates.
    C. Soil investigation to be performed by Olsson Associates.
    D. Soil investigation to be performed by Olsson Associates.
    E. Soil investigation to be performed by Olsson Associates.

12. Structural Design
    A. Structural design to be performed by Bob D. Campbell and Company, Inc.
    B. Structural design to be performed by Bob D. Campbell and Company, Inc.
    C. Structural design to be performed by Bob D. Campbell and Company, Inc.
    D. Structural design to be performed by Bob D. Campbell and Company, Inc.
    E. Structural design to be performed by Bob D. Campbell and Company, Inc.
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

NOTE:

ADJUSTMENTS TO DIMENSIONS TO PROVIDE HORIZONTAL BOND BEAM SHALL BE PLACED IN VERT. WALL CONTROL JT. THROUGH CONTROL JOINTS (FULL HEIGHT) CONSTRUCTION AND SHALL NOT EXCEED ALL INTERIOR & EXTERIOR MASONRY WALLS SHOWN ON ARCHITECTURAL 2 5/8" +/- 2 5/16" +/- W

AND STRUCTURAL DRAWINGS ARE TO BE REINFORCED HORIZONTALLY WITH 6 3/8" +/- BOND BEAMS (2 ROOF OR FLOOR BEARING ELEVATION AND AT 8' - 2 5/16" +/- INDICATED ON DRAWINGS. THESE WALLS ARE TO BE ANCHORED TOP AND BOTTOM TO THE FOUNDATION, FLOOR, OR ROOF PER TYPICAL DETAILS. THE ADJACENT TO CONSOLIDATE & GROUTED S002 RECONSOLIDATE GROUT w/ DOUBLE BAR REINFORCING CLEAR GROUT - #6 CONT.

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#6 CONT.
1. ROOF FRAMING PLAN

2. CRANE SUPPORT FRAMING PLAN

NOTES:
1. REFER TO GENERAL NOTES AND LEGEND ON SHEET S001.
2. SUPPORTS DESIGNED FOR 7½ TON CRANE MAXIMUM.

FMS ADDITION CAMP CLARK TRAINING SITE - NEVADA, MO

Camp Clark Training Site 1 Highway 71 South
Nevada, MO, 64772

PROJECT # T2023-01
ASSSET # 8136274617

MISSOURI   STATE   CERTIFICATE   OF   AUTHORITY   #000582

OLSSON ASSOCIATES 1301 BURLINGTON STREET, SUITE 100 NORTH KANSAS CITY, MO 64116 P: 816-361-1177 STRUCTURAL ENGINEER

BOB D. CAMPBELL & CO. 4338 BELLEVIEW AVE. KANSAS CITY, MO 64111 P: 816-531-4144

MISSOURI   STATE   CERTIFICATE   OF   AUTHORITY   #000582
NOTE: JOISTS SHALL BE DESIGNED FOR THE FOLLOWING UNIFORM LOADS IN ADDITION TO THE LOADS INDICATED ABOVE:

DEAD LOAD = 125 plf
LIVE LOAD = 150 plf

1/4" EA. SIDE
TYP.

TYPICAL PIPE BASE CONNECTION

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC SAFETY

FMS ADDITION CAMP
CLARK TRAINING SITE - NEVADA, MO
Camp Clark Training Site 1
Highway 71 South
Nevada, MO, 64772

PROJECT # T2023-01
ASSET # 8136274617

MISSOURI   STATE   CERTIFICATE   OF   AUTHORITY   #000582
912 BROADWAY BLVD, SUITE 300  |  KANSAS CITY, MO 64105

S102
S102.dwg

ISSUE DATE:
DRAWN BY:
CHECKED BY:
DESIGNED BY:
SHEET TITLE:
SHEET NUMBER:

1 SOLAR ARRAY FRAMING PLAN
(ALTERNATE #1)
MECHANICAL PLAN

SHEET KEYNOTES

1. PENETRATE ROOF FOR INFRARED HEATER VENTILATION.

2. AREA OUTLINED TO BE PAINTED PER ARCHITECTURAL.

3. EXISTING EXHAUST GRILL TO BE REBALANCED TO 850 CFM.

4. CONNECT SENSORS INTO CONTROL PANEL PER DETAIL 2 ON M500.
NOTE: FAN OPERATES MANUALLY. BMS SHALL PROVIDE MONITORING AND EMERGENCY SHUTDOWN ONLY.

CAULK AND SEAL ANNULAR SPACE BETWEEN PIPE AND SLEEVE

ESCUTCHEON PLATE WHERE EXPOSED (APPLIED ONLY ON PIPE)

PIPE HANGER SUPPORT

MOTORIZED LOUVER/DAMPER

INLINE EXHAUST FAN DETAIL

MAKEUP AIR UNIT

GENERAL EXHAUST FAN DIAGRAM

PIPING PENETRATIONS THRU WALL

MOTORIZED LOUVER/DAMPER

INTEGRAL EXHAUST FAN DETAIL

SUPPLY AIR
Sheet Keynotes:
1. 3" Waste up to Mop Sink.
2. 2" Vent up.
3. 3" Trapped Connection to Trench Drain. See Detail for Connection.
4. 2" Waste up to Shop Sink. 2" Vent up.
5. 3" Vent to 4" VTR.
6. 4" Sanitary Waste Reference Civil Drawings for Continuation.
1. CONNECT 3/4" COLD WATER LINE FROM EXISTING MAIN LINE IN EXISTING SPACE. FIELD VERIFY LOCATION OF MAIN IN MAINTENANCE AREA 111.

2. CONNECT 3/4" HOT WATER LINE FROM EXISTING MAIN LINE IN EXISTING SPACE. FIELD VERIFY LOCATION OF MAIN IN MAINTENANCE AREA 111.

3. CONNECT 3/4" COMPRESSED AIR LINE FROM EXISTING MAIN LINE IN EXISTING SPACE. FIELD VERIFY LOCATION OF MAIN IN MAINTENANCE AREA 111.

4. CONNECT 1-1/2" NATURAL GAS LINE FROM EXISTING MAIN LINE IN EXISTING SPACE. FIELD VERIFY LOCATION OF MAIN IN MAINTENANCE AREA 111.

5. 1/2" HOT AND COLD WATER DOWN TO SERVE MOP SINK.

6. 1/2" HOT AND COLD WATER DOWN TO SERVE SHOP SINK.

7. 3/4" COLD WATER DOWN TO SERVE FPWH.

8. MOVE EXISTING HOSE BIB TO NEW WALL FACE.

9. 3/4" NATURAL GAS DOWN TO SERVE MECHANICAL EQUIPMENT.

10. 3/4" COMPRESSED AIR DOWN TO HOSE REEL. PROVIDE HOSE REEL GRACO XD30 SERIES MODEL HSLC8B WITH QUICK COUPLER.

11. 3/4" COMPRESSED AIR DOWN TO SERVE SP-1.

12. 1" PUMPED MOTOR OIL UP FROM PIT TO SP-1.

13. 1" PUMPED MOTOR OIL DOWN INTO STORAGE TANK.

14. SEE CIVIL DRAWINGS FOR TRENCH ACROSS SIDEWALK, 1" PUMPED MOTOR OIL PIPING SHALL BE ROUTED IN THE TRENCH.
1. INSTALL TRENCH SYSTEM PER MANUFACTURER'S SPECIFICATIONS.

2. ALWAYS BEGIN INSTALLATION AT THE APPROPRIATE OUTLET CHANNEL, WORKING TOWARDS THE SHALLOW END.

3. ALL SURROUNDING CONCRETE/SLAB SHALL HAVE THICKNESS AND REINFORCING PER STRUCTURAL ENGINEER.

4. STEEL GRATE SPECIFIED HAS A LOAD CAPACITY OF 575 PSI. IF INSUFFICIENT STRUCTURAL ENGINEER SHALL HAVE RIGHT TO CHANGE GRATE TYPE FOR LARGER LOAD CAPACITY. 575 PSI WILL SUPPORT A LOAD CLASS OF SEVERE POINT LOADS.

5. PIPE INSULATION DETAIL
- PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.
- INSULATION AT EACH HANGER SUPPORT.
- PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

6. PIPE SLEEVE THRU EXTERIOR WALL
- INSULATION AT EACH HANGER SUPPORT.
- INSULATION AT EACH HANGER SUPPORT.

7. PIPE INSULATION DETAIL
- INSULATION AT EACH HANGER SUPPORT.
- INSULATION AT EACH HANGER SUPPORT.

8. COMPRRESSED AIR OUTLET
- INSULATION AT EACH HANGER SUPPORT.
- INSULATION AT EACH HANGER SUPPORT.

9. TRENCH DRAIN INSTALLATION DETAIL
- INSULATION AT EACH HANGER SUPPORT.
- INSULATION AT EACH HANGER SUPPORT.

NOTES:
- PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.
- INSULATION AT EACH HANGER SUPPORT.
- INSULATION AT EACH HANGER SUPPORT.

HOLES PIERCED THROUGH WALL MUST BE SHARP. SURFACE SMALLER THAN HOLES MUST BE COUNTERSUNK TO COMPLIANCE WITH SAFETY CODE.
PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>TAG</th>
<th>DESCRIPTION</th>
<th>ACCESSORIES</th>
<th>CONNECTIONS</th>
</tr>
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<tbody>
<tr>
<td>SP 1</td>
<td>OIL PUMP</td>
<td>1/2&quot;&quot; TEE</td>
<td>&quot; 1/2&quot; 1/2&quot;</td>
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OIL PUMP SCHEDULE

<table>
<thead>
<tr>
<th>TAG</th>
<th>LOCATION</th>
<th>PUMP SIZE</th>
<th>INLET MATERIAL</th>
<th>OUTLET MATERIAL</th>
<th>PUMP MATERIAL</th>
<th>PRESSURE TEST</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>SP 1</td>
<td>OIL PUMP</td>
<td>1/2&quot;&quot;</td>
<td>STEEL</td>
<td>STEEL</td>
<td>STEEL</td>
<td>15 PSIG</td>
<td>&quot;</td>
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</tbody>
</table>

TAGS:
- SP - 1/2" STEEL PUMP SLEEVE

ACCESSORIES:
- " 1/2" 1/2" TEE

NOTES:
- ALL CONNECTIONS MODIFIED BEVELED GROOVE, MANUFACTURED AND PLATED.
- specify manufacturer and type of material used for any plumbing fixtures listed below.
- specify manufacturer and type of material used for any plumbing fixtures listed below.
- specify manufacturer and type of material used for any plumbing fixtures listed below.
SHEET KEYNOTES

1. REMOVE EXISTING ELECTRICAL METER AND EQUIPMENT. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.

2. REMOVE EXISTING LIGHT AND POLE AND OFFER TO OWNER. IF OWNER DECLINES, REMOVE FROM SITE. EXTEND CIRCUIT TO NEW LIGHT POLE AND FIXTURE. REFER TO SHEET E101.

3. INTERCEPT EXISTING WIRING/CONDUIT AND EXTEND TO NEW LOCATION. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION. DETERMINE EXACT LOCATION AND ROUTING.

EXISTING EQUIPMENT ON UNITRUT TO BE RELOCATED/DEMOLISHED PER PLANS.
GENERAL NOTES

1. EXISTING LIGHT FixTURES SHALL BE DISCONNECTED AND REMOVED. DEMOLITION WORK SHOWN IS NOT ALL INCLUSIVE.

SHEET KEYNOTES

1. REMOVE ALL CONDUIT AND CONDUCTORS ASSOCIATED WITH DEMOLISHED LIGHT FIXTURE BACK TO SOURCE.

2. DISCONNECT AND REMOVE EXISTING LIGHT SWITCH ASSOCIATED WITH DEMOLISHED LIGHTING FIXTURES.

3. EXISTING LIGHT FIXTURE SHALL REMAIN.

4. EXISTING EXIT SIGN SHALL REMAIN. REPLACE EXISTING BATTERY. RECONNECT TO LIGHTING CIRCUIT IN NEW WORK FOLLOWING DEMOLITION. (TYP. ALL EXIT SIGNS)

5. EXISTING LIGHT SWITCH(ES) SHALL REMAIN TO BE USED IN NEW WORK.

BID NOTES:

BASE BID:
SHALL INCLUDE ALL ITEMS DENOTED ON PLANS AND STATED WITHIN CONTRACT DOCUMENTS. ITEMS STATED BELOW AS BID ADD ALTERNATES SHALL BE EXCLUDED FROM THE BASE BID AND SHALL BE A SEPARATE LINE ITEM.

BID ADD ALTERNATE #1:
SHALL INCLUDE INSTALLATION AND PROCUREMENT OF SOLAR PANELS AND INVERTER SYSTEM ON FMS EXPANSION.

BID ADD ALTERNATE #2:
SHALL INCLUDE DEMOLITION OF EXISTING LIGHTING IN THE EXISTING FMS BUILDING AS SHOWN AND INSTALLING NEW LED LIGHTING.

BID ADD ALTERNATE #3:
SHALL INCLUDE INSTALLATION OF NEW LED POLE LIGHTS FOR THE MVC.
<table>
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<tr>
<th>Date</th>
<th>Wattage per Number</th>
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</thead>
<tbody>
<tr>
<td>07/17/2020</td>
<td>0.0</td>
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</tbody>
</table>

**Lighting**:
- **EIGHTY WHITE LIGHT Lamps**
- **OPTIC BELOW EACH LED, 1 FORMED SEMI-SPECULAR METAL OPTIC**

**Dates and Revisions**:
- **DATE**: 07/17/2020
- **REVISION**: 0.3

**Project Details**:
- **CURRENT ADDITION**: Camp Clark Training Site 1
- **HIGHWAY**: 71 South
- **STATE**: NEVADA, MO
- **LOCATION**: Nevada, MO, 68772
- **PHONE**: 816-361-1177

**Comment**:
- **NOTE**: SITE LIGHTING PHOTOMETRICS PLAN ALTERNATE #3

**Contact Information**:
- **PICTURED PERSONNEL**: A-5077
- **ADDRESS**: 912 BROADWAY BLVD, SUITE 300  |  KANSAS CITY, MO 64105

**State of Missouri**
- **GOVERNOR**: MICHAEL L. PARSON

**GEO-CODE**: 41.2766, -94.5674

**Public Safety**
- **KANSAS CITY, MO 64111

**Facilities Management**
- **DESIGN AND CONSTRUCTION**
- **OFFICE OF ADMINISTRATION**

**Plan Details**:
- **PUBLIC SAFETY**
- **HIGHWAY 71 SOUTH**
- **STATE**: NEVADA, MO
- **LOCATION**: Nevada, MO, 68772

**Plan Revision**:
- **DATE**: 07/17/2020
- **REVISION**: 0.3

**Plan Sheets**:
- **SHEET**: ES100
- **DATE**: 07/17/2020
- **STATE**: MO
- **PROJECT**: T2023-01
- **ASSET**: A156274617

**Plan Specifications**:
- **MO#**: A-5077
- **PICTURED PERSONNEL**: A-5077
- **ADDRESS**: 912 BROADWAY BLVD, SUITE 300  |  KANSAS CITY, MO 64105

**Contacts**:
- **P**: 816-361-1177

**Plan Comments**:
- **NOTE**: SITE LIGHTING PHOTOMETRICS PLAN ALTERNATE #3
**GENERAL SHEET NOTES**

1. MOUNT AT 11'-6" AFG TO THE CENTER OF THE LIGHT FIXTURE.
2. MOUNT AT 15'-6" AFG TO THE CENTER OF THE LIGHT FIXTURE.
3. MOUNT PHOTOCELL HIGH ON BUILDING.
4. MOUNT AT 9'-0" AFG.
5. MOUNT AT 26'-6" AFG.
6. OVERRIDE SWITCHES. REFER TO DIAGRAM 1/E601.
7. POWER PACK. REFER TO DIAGRAM 1/E601.
8. WALL MOUNTED OCCUPANCY/VACANCY SENSOR. REFER TO DIAGRAM 2/E601.
9. BUILDING MOUNTED LIGHTS CONTROLLED BY PHOTOCELL. REFER TO DIAGRAM 2/E602.
10. (2)#10, (1)#10 G., 3/4"C.
11. CONNECT NEW POLE MOUNTED LIGHT TO EXISTING LIGHTING CIRCUIT FROM DEMOLISHED POLE MOUNTED LIGHT.
12. REFER TO DETAIL 3/E602 FOR FOUNDATION REQUIREMENTS.

**SHEET KEYNOTES**

- MOUNT AT 11'-6" AFG TO THE CENTER OF THE LIGHT FIXTURE.
- MOUNT AT 15'-6" AFG TO THE CENTER OF THE LIGHT FIXTURE.
- MOUNT PHOTOCELL HIGH ON BUILDING.
- MOUNT AT 9'-0" AFG.
- MOUNT AT 26'-6" AFG.
- OVERRIDE SWITCHES. REFER TO DIAGRAM 1/E601.
- POWER PACK. REFER TO DIAGRAM 1/E601.
- WALL MOUNTED OCCUPANCY/VACANCY SENSOR. REFER TO DIAGRAM 2/E601.
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- (2)#10, (1)#10 G., 3/4"C.
- CONNECT NEW POLE MOUNTED LIGHT TO EXISTING LIGHTING CIRCUIT FROM DEMOLISHED POLE MOUNTED LIGHT.
- REFER TO DETAIL 3/E602 FOR FOUNDATION REQUIREMENTS.

**DRAWN BY:**

CIVIL / MEP CONSULTANT
OLSSON ASSOCIATES
1301 BURLINGTON STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
P: 816-361-1177

**CHECKED BY:**

STRUCTURAL ENGINEER
BOB D. CAMPBELL & CO.
4338 BELLEVIEW AVE.
KANSAS CITY, MO 64111
P: 816-531-4144

**DESIGNED BY:**

**DRAWN BY:**

CIVIL / MEP CONSULTANT
OLSSON ASSOCIATES
1301 BURLINGTON STREET, SUITE 100
NORTH KANSAS CITY, MO 64116
P: 816-361-1177

**CHECKED BY:**

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4338 BELLEVIEW AVE.
KANSAS CITY, MO 64111
P: 816-531-4144

**ISSUE DATE:**

07/17/2020

**LIGHTING PLAN**

**SHEET NUMBER:**

E101

**SHEET TITLE:**

LIGHTING PLAN

**56 OF 67 SHEETS**

---

**STATE OF MISSOURI**
MICHAEL L. PARSON,
GOVERNOR

**OFFICE OF ADMINISTRATION**
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC SAFETY

**PMS ADDITION CAMP CLARK TRAINING SITE - NEVADA, MO**
Camp Clark Training Site 1
Highway 71 South
Nevada, MO, 64772

**PROJECT #: T2023-01**
**ASSET #: 8136274017**

---

**SCALE:** 1/4" = 1'-0"
GENERAL NOTES

1. Provide emergency and exit lights with an un-switched hot connection.
2. Dual tech line voltage, occupancy sensor with push button switch to illuminate exits.
3. Emergency lights from structure above at 60'-0" A.F.F to bottom of fixture. (50"")
4. Mount LED wall pack at same height as previous light fixture.
5. Flood light shall be mounted on wall at 60'-0" A.F.F and aimed at 45 degree toward space. (50"")
6. Route circuit to existing 120/240V circuit breaker made available, following generation.
7. Emergency lighting circuit shall be controlled by protocol. Route light no circuit through existing protocol.
8. Mount emergency light at 60'-0" A.F.F to the bottom of the light fixture.
10. Replace emergency light battery. (60"")
11. Maintain existing circuiting and controls.

O SHEET KEYNOTES

1. Provide emergency and exit lights with an un-switched hot connection.
2. Dual tech line voltage, occupancy sensor with push button switch to illuminate exits.
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8. Mount emergency light at 60'-0" A.F.F to the bottom of the light fixture.
10. Replace emergency light battery. (60"")
11. Maintain existing circuiting and controls.

LIGHTING PLAN ALTERNATE #2
1. HAND HELD CRANE REMOTE CONTROL STATION.
2. ELECTRICAL CONNECTION TO OVERHEAD CRANE. COORDINATE REQUIREMENTS WITH OVERHEAD CRANE SUPPLIER.
3. 50A, 250V, 3 PHASE, 3P, 4W TWIST-LOCK WELDING RECEPTACLE. REFER TO WIRING DEVICES SPECIFICATION FOR APPROVED MANUFACTURERS.
4. 3/4" CONDUIT WITH PULL STRING FOR CONTROL WIRING. WIRING BY OTHERS. REFER TO DETAIL 2/M500 FOR OTHER INFORMATION.
5. MOTORIZED DAMPERS. COORDINATE ELECTRICAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
6. COMPLETE ELECTRICAL SERVICE MODIFICATIONS BEFORE WORK ON BUILDING BEGINS.
7. SOLAR INVERTER SYSTEM EQUAL TO SMA SUNNY BOY 7.7-US. ROUTE FEEDER TO ROOF JUNCTION BOX TO CONNECT SOLAR PANEL FEEDS. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER TO PROVIDE A 25KW SYSTEM AT 208V/1PH.
1. Solar panels and racking shall be furnished as a complete package and be fully coordinated for mounting, wiring, dog houses or other approved similar method.

2. Coordinate with structural plans on mounting solar racking to avoid penetrations thru the roof.

3. All penetrations thru the roof shall be via pate or approved pipe trays/harnesses, etc.

4. All DC cabling on the roof shall be pre-manufactured copper trays/junction boxes. Route #2 copper conductor to boxes on racks. PV wire from solar array to be collected into a sub-combiner box. DC junction box 12"x12"x6" NEMA 3R. Bond junction box ground bus to roof to inverter sub-combiner.

5. Always provide conduit or other approved means to penetrate the roof to inverter sub-combiner.

6. Ensure solar panel rows to end, wiring bus bar, and to sub-combiner for additional information (TLC).

GENERAL SHEET NOTES

1. Solar panels and wiring shall be inside a computer program using Architectural Design Software.

2. Coordination with structural plans is recommended for roof wiring to structural steel. Engineering plans shall be reviewed before work is begun. Specifications shall be reviewed before work is begun and modified.

3. All cabling on the roof shall be pre-manufactured copper trays/junction boxes. Route #2 copper conductor to roof to inverter sub-combiner.

4. All penetrations through the roof shall be via pate or approved pipe trays/harnesses, etc.

SCALE: 1/4" = 1'
1. PROVIDE (2) GROUND RODS AS REQUIRED BY NEC. TO GROUND.
2. PROVIDE #8 GROUNDING ELECTRODE CONDUCTORS.
3. CONCRETE SLAB TO PROVIDE SEMI-DRY WORKING AREA IN FRONT OF CONTROLLER CERABE.

24" 30"
36"
6" 6" 12"

#4 TIE BARS (3 REQD.)

1" CONDUIT FOR GROUND
3" CONDUIT FOR LIGHT CIRCUITS

(2) - 1" CONDUIT FOR FUTURE USE
### Electrical Schedule

#### Electrical Connection Schedule

<table>
<thead>
<tr>
<th>LOAD DESCRIPTION</th>
<th>CIRCUIT NO.</th>
<th>FEEDER SIZE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR-2 Hose Reel 120 V 1 7.2 MS (20A) --- E/E --- --- --- 1 &quot;PPS&quot;</td>
<td>1</td>
<td>25 (2)#12, (1)#12G.</td>
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<tr>
<td>HR-1 Hose Reel 120 V 1 7.2 MS (20A) --- E/E --- --- --- 1 &quot;PPS&quot;</td>
<td>1</td>
<td>23 (2)#12, (1)#12G.</td>
<td></td>
</tr>
<tr>
<td>EF-2 Exhaust Fan 208 V 3 15.2 5 30A 25A E/E COMBO1</td>
<td>1</td>
<td>13,15,17 (3)#10, (1)#10G.</td>
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<tr>
<td>Crane Overhead Crane 208 V 3 62.1 100A 90A E/E --- --- ---</td>
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<td>38,40,42 (3)#3, (1)#8G.</td>
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</tbody>
</table>

**NOTE:** LOAD DESCRIPTION C/B CKT.

### Electrical Connection Schedule Legend

- **LOAD DESCRIPTION**
- **CIRCUIT NO.**
- **FEEDER SIZE**
- **NOTES**

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#### Electrical Connection Schedule

<table>
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<th>NOTES</th>
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<tbody>
<tr>
<td>Motor 83931 VA 114.03% 95704 VA</td>
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<tr>
<td>Lighting - Exterior 2904 VA 125.00% 3630 VA</td>
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<tr>
<td>Heating 3301 VA 100.00% 3301 VA</td>
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</tbody>
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**NOTE:** LOAD DESCRIPTION C/B CKT.
LIGHT FIXTURE SCHEDULE

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<th>SYMBOL</th>
<th>TYPE</th>
<th>DESCRIPTION</th>
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LED DRIVER

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- LED DRIVER

DESCRIPTION
- FIXTURE MOUNTED TO STRUCTURE ABOVE WITH AIRCRAFT CABLE.
- FIXTURE MOUNTED TO WORK/SERVICE BAY ABOVE EXIT DOORS.
- FIXTURE MOUNTED TO WORK/SERVICE BAY ABOVE EXIT DOORS.
- FIXTURE MOUNTED TO WORK/SERVICE BAY ABOVE EXIT DOORS.
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- FIXTURE MOUNTED TO WORK/SERVICE BAY ABOVE EXIT DOORS.

MANUFACTURER & CAT. No.
- LED DRIVER
- LED DRIVER
- LED DRIVER
- LED DRIVER
- LED DRIVER
- LED DRIVER
- LED DRIVER
- LED DRIVER

LIGHT FIXTURE SCHEDULE