Tudor Place was designated a National Historic Landmark in 1960 by the Department of the Interior. It was one of the first 92 properties to be recognized by the NHL program as having “preeminent national historical importance.” Tudor Place was entered into the National Register of Historic Places in 1966 and listed on the District of Columbia Inventory of Historic Sites in 1964. Hartman-Cox was engaged to develop a Master Preservation Plan to protect the site’s architecture and landscapes, improve the care of the collections and archives, and enhance the visitor experience at the site; it was presented to the Old Georgetown Board on March 1, 2012 and reviewed by the Commission of Fine Arts on March 15, 2012 with no objections. This project continues the implementation of the Master Preservation Plan. It proposes the following additions and renovations:

**Mower House Addition**

In order to ensure uninterrupted emergency electrical power on site, a new natural gas generator will be installed at the Mower House, enclosed within a complementary addition to the existing building. The addition will be stucco on a base of pebble dash, with a new generator exhaust flue. The generator will be housed below the existing Mower House floor level with louvers as required for ventilation and sound absorption, providing additional storage space above.

Concept Design approval for the Mower House addition was received on September 20, 2019.
Proposed plantings illustrated in blue.
Tree symbols are illustrative only and may not reflect exact canopy sizes.

Tree Species Legend:
Cb  Southern Catalpa
Cf  Dogwood
Io  Holly
Mxa Magnolia
Ps  Pine
Rp  Black Locust
Tus Hemlock
VIEW FROM THE SOUTHEAST | EXISTING BUILDINGS
(Without trees)
EXISTING SITE PHOTOS
ELEVATIONS | PROPOSED

(North Elevation)

EXISTING

PROPOSED

(North Elevation)

EXISTING

PROPOSED

(West Elevation)

EXISTING

PROPOSED

(From previously Approved OGB Concept Submission)
ELEVATIONS

WEST ELEVATION

EXISTING

PROPOSED

NORTH ELEVATION

PROPOSED

EXISTING

GENERATOR EXHAUST FLUE

ACOUSTICAL INTAKE LOUVER, TYP.

PROPOSED

EXISTING

(Permit Submission)
1 - SOUTHERN VIEW OF THE MAIN HOUSE (For Information Only - No Proposed Work)

2 - VIEW OF SOUTH AND EAST MOWER HOUSE ELEVATIONS

3 - VIEW OF EAST AND NORTH MOWER HOUSE ELEVATIONS
4 - SPRINGTIME VIEW OF MOWER HOUSE FROM 32ND STREET

5 - VIEW FROM EAST SIDE OF MOWER HOUSE LOOKING NORTH TO MAIN HOUSE

6 - VIEW OF GARAGE SOUTH ELEVATION
(For Information Only - No proposed Architectural Work)

7 - VIEW OF GARAGE EAST ELEVATION
(For Information Only - No proposed Architectural Work)

8 - VIEW OF GARAGE WEST ELEVATION FROM 32ND ST.
(For Information Only - No proposed Architectural Work)
9 - VIEW OF MOWER HOUSE WEST ELEVATION

10 - VIEW OF WEST AND SOUTH MOWER HOUSE ELEVATIONS

11 - WINTER VIEW OF MOWER HOUSE WEST ELEVATION
TOWARD Q STREET

12 - SPRINGTIME VIEW FROM WEST SIDE OF MOWER HOUSE LOOKING TOWARD 32ND STREET
THIS SHEET IS TO BE USED FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY!!

NOTE:
SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE AT THE END OF EACH WORKSHIFT.

IMMEDIATELY STABILIZE UPON COMPLETE OF UTILITY WORK, TYPICAL FOR ALL UTILITY TRENCHING AREAS.

SCALE: 1' = 300'

ADDRESS:
1644 31ST STREET NW
WASHINGTON, DC. 20007

NOTE:
SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE AT THE END OF EACH WORKSHIFT.

IMMEDIATELY STABILIZE UPON COMPLETE OF UTILITY WORK, TYPICAL FOR ALL UTILITY TRENCHING AREAS.

SCALE: 1' = 300'

ADDRESS:
1644 31ST STREET NW
WASHINGTON, DC. 20007
THIS SHEET IS TO BE USED FOR EROSION AND SEDIMENT CONTROL
PURPOSES ONLY!!
**EXISTING GRADE**

10+36.20 = 45° HORZ. BEND

10+00.00 = EX. 48" MH

10.0" INV IN FROM D-300 = 149.91

10.0" PVC

6.0" PVC

10+59.60 = 45° HORZ. BEND

10+61.21 = CONNECTION TO DOWNSPOUT

INV = 150.60

10+48.10 = 45° HORZ. BEND

10+37.15 = DOWNSPOUT CONNECTION

INV = 150.51

EXISTING GRADE

10+58.63 = 6.0" STRM X-ING

INV = 141.18

4.0" PVC Pipe @ 1.50%

10+60.63 = FOUNDATION DRAIN

INV = 144.59

10+41.19 = DAYLIGHT PIPE WITH ANIMAL GUARD

INV = 144.29

**PROPOSED GRADE**

10+58.63 = 6.0" STRM X-ING

INV = 141.18

4.0" PVC Pipe @ 1.50%

10+60.63 = FOUNDATION DRAIN

INV = 144.59

10+41.19 = DAYLIGHT PIPE WITH ANIMAL GUARD

INV = 144.29

**SCALE**

1/14/22

UTILITY PROFILES

CIV201

**SCALE**

1/14/22

UTILITY PROFILES
EXISTING GRADE

11+37.65 = EX 4.0" STRM X-ING
10+09.73 = EX COMM X-ING
10+15.73 = EX ELECTRIC X-ING
11+55.04 = EX ELECTRIC X-ING
10+34.45 = ELECTRIC MH
11+14.27 = ELECTRIC MH
11+93.33 = ELECTRIC MH

PROPOSED GRADE

10+00.00 = CONNECTION TO GARAGE
12+02.67 = CONNECTION TO MOWER HOUSE

CONCRETE ENCASED CONDUIT
ELEV = 150.10
ELEV = 143.99
ELEV = 148.28
2.5' (TYP)
SEE ELECTRIC DRAWINGS FOR CONTINUATION
SEE ELECTRIC DRAWINGS FOR CONTINUATION

EXISTING GRADE

10+02.47 = EX SSWR X-ING
10+07.79 = EX ELECTRIC X-ING
10+14.97 = EX 8" W/L X-ING
10+00.00 = EX GAS X-ING
10+36.83 = EX COMM X-ING

PROPOSED GRADE

PROPOSED GAS LINE TO BE FURNISHED AND INSTALLED BY WASHINGTON GAS
10+00.00 = CONNECTION TO EXISTING GAS LATERAL
11+89.94 = MOWER HOUSE GAS METER
3.0' (TYP)
SEE MECHANICAL DRAWINGS FOR CONTINUATION

TEST PITS ARE REQUIRED AT ALL PROPOSED UTILITY CROSSINGS WITH ALL EXISTING UTILITY LINES TO DETERMINE THE EXACT HORIZONTAL LOCATION, ELEVATION AND SIZE OF THE EXISTING UTILITIES. A MINIMUM OF ONE FOOT VERTICAL CLEARANCE (UNLESS NOTES OTHERWISE) SHALL BE PROVIDED BETWEEN EXISTING AND PROPOSED UTILITIES. TEST PITS SHOULD BE COMPLETED PRIOR TO ORDERING ANY STRUCTURES OR PIPE MATERIALS. NOTIFY CONTRACTING OFFICER OF ANY CONFLICT WITH PROPOSED PLANS.
**FINISH SCHEDULE**

<table>
<thead>
<tr>
<th>ROOM NAME</th>
<th>ROOM NO.</th>
<th>ROOM</th>
<th>WALL</th>
<th>DRY</th>
<th>Prim. OR Finish OR Non-Prim.</th>
<th>MOLD</th>
<th>STAIN</th>
<th>PLYWOOD</th>
<th>TREATMENTS</th>
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**DOOR SCHEDULE**

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<tr>
<th>KEY</th>
<th>ROOM NO.</th>
<th>DOOR TYPE</th>
<th>SCHEDULE</th>
<th>ACCESS</th>
<th>INSIDE</th>
<th>O/SIDE</th>
<th>TREATMENTS</th>
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**EXTERIOR LOUNGE**

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**WINDOW SCHEDULE**

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<th>O/SIDE</th>
<th>TREATMENTS</th>
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</tbody>
</table>

**NOTES**

- All existing doors and frames shall be removed. Remove existing cracked paint and damaged paint. Repair as necessary, paint and prime.
- Door schedule.
- Use Schedule.
- Use Schedule.
- Use Schedule.
- Use Schedule.
- Use Schedule.
- Use Schedule.

**GENERAL NOTES**

- The proposed elevations must meet the same performance standards as the doors of the design and must be approved by the architect.
- All doors shall have a minimum of 3-00 doors.
- Specify the manufacturer and installation.

**REMARKS**

- The proposed elevations must meet the same performance standards as the doors of the design and must be approved by the architect.
- All doors shall have a minimum of 3-00 doors.
- Specify the manufacturer and installation.

**DIMENSIONAL ASSUMPTIONS**

- Doors
- Trim
- Molding

**MOWER HOUSE SCHEDULEDTUDOR PLACE FOUNDATION**

1444 31ST STREET NW WASHINGTON DC 20007
**MOWER HOUSE**

**FOOTINGS**

- **Slab Footings**
  - Reinforcement: 6# (4) bent bars at 3'-0" on center
  - Details: See Schedule

- **Pile Footings**
  - Reinforcement: As specified in the Foundation Schedule
  - Details: See Schedule

** Foundation Schedule**

- **Typical Footing**
  - Reinforcement: 6# (2) bent bars at 3'-0" on center
  - Details: See Schedule

- **Special Footings**
  - Reinforcement: As specified in the Foundation Schedule
  - Details: See Schedule

** STEEL**

- **Reinforcing Steel**
  - Grade: A705
  - Details: See Schedule

- **Structural Steel**
  - Grade: A572
  - Details: See Schedule

** CONCRETE**

- **Ready-Mix Concrete**
  - Mix Design: As specified in the Concrete Schedule
  - Details: See Schedule

- **Permeable Concrete**
  - Mix Design: As specified in the Concrete Schedule
  - Details: See Schedule

** STAIRS**

- **Concrete Stairs**
  - Design: As specified in the Structural Schedule
  - Details: See Schedule

- **Stair Railings**
  - Material: As specified in the Structural Schedule
  - Details: See Schedule

** ROOFING**

- **Metal Roof**
  - Material: As specified in the Roofing Schedule
  - Details: See Schedule

- **Slate Roof**
  - Material: As specified in the Roofing Schedule
  - Details: See Schedule

** INSULATION**

- **R-Value**
  - Minimum: As specified in the Insulation Schedule
  - Details: See Schedule

- **Thermal Break**
  - Material: As specified in the Insulation Schedule
  - Details: See Schedule

** WINDOWS**

- **Operable Windows**
  - Material: As specified in the Windows Schedule
  - Details: See Schedule

- **Fixed Windows**
  - Material: As specified in the Windows Schedule
  - Details: See Schedule

** DOORS**

- **Entry Doors**
  - Material: As specified in the Doors Schedule
  - Details: See Schedule

- **Service Doors**
  - Material: As specified in the Doors Schedule
  - Details: See Schedule

** HVAC**

- **Central Air Conditioning**
  - Type: As specified in the HVAC Schedule
  - Details: See Schedule

- **Ductwork**
  - Material: As specified in the HVAC Schedule
  - Details: See Schedule

** PLUMBING**

- **Main Sewer Line**
  - Material: As specified in the Plumbing Schedule
  - Details: See Schedule

- **Drainage System**
  - Material: As specified in the Plumbing Schedule
  - Details: See Schedule

** ELECTRICAL**

- **Service Entrance**
  - Material: As specified in the Electrical Schedule
  - Details: See Schedule

- **Panelboard**
  - Material: As specified in the Electrical Schedule
  - Details: See Schedule

** FENCING**

- **Wood Fence**
  - Material: As specified in the Fencing Schedule
  - Details: See Schedule

- **Metal Fence**
  - Material: As specified in the Fencing Schedule
  - Details: See Schedule

** LANDSCAPING**

- **Site Development**
  - Material: As specified in the Landscaping Schedule
  - Details: See Schedule

- **Paving**
  - Material: As specified in the Landscaping Schedule
  - Details: See Schedule

** EXTERIORS**

- **Exterior Finish**
  - Material: As specified in the Exterior Schedule
  - Details: See Schedule

- **Roof Finish**
  - Material: As specified in the Exterior Schedule
  - Details: See Schedule

** INTERIORS**

- **Wall Finish**
  - Material: As specified in the Interior Schedule
  - Details: See Schedule

- **Ceiling Finish**
  - Material: As specified in the Interior Schedule
  - Details: See Schedule

** MECHANICAL**

- **Chimney**
  - Material: As specified in the Mechanical Schedule
  - Details: See Schedule

- **Fireplace**
  - Material: As specified in the Mechanical Schedule
  - Details: See Schedule

** SOUNDstrips**

- **Soundproofing**
  - Material: As specified in the Soundstrips Schedule
  - Details: See Schedule

** OTHER**

- **Signage**
  - Material: As specified in the Other Schedule
  - Details: See Schedule

- **Security System**
  - Material: As specified in the Other Schedule
  - Details: See Schedule

** ARCHITECT & ENGINEER**

- **Architectural Firm**
  - Name: As specified in the Project Coordinator
  - Details: See Schedule

- **Structural Engineer**
  - Name: As specified in the Project Coordinator
  - Details: See Schedule

** CONTRACTORS**

- **General Contractor**
  - Name: As specified in the Project Coordinator
  - Details: See Schedule

- **Subcontractors**
  - Names: As specified in the Project Coordinator
  - Details: See Schedule

** PROJECT MANAGER**

- **Project Manager**
  - Name: As specified in the Project Coordinator
  - Details: See Schedule

** QUALITY ASSURANCE**

- **Quality Assurance Manager**
  - Name: As specified in the Project Coordinator
  - Details: See Schedule

** CONTRACT DOCUMENTS**

- **Drawings**
  - Number: A010
  - Scale: 1/4" = 1'-0"
  - Date: As specified in the Project Coordinator
  - Details: See Schedule
1.03 QUALITY ASSURANCE

1.02 SUBMITTALS

PART 3  EXECUTION

3.03 APPLICATION

SECTION 231123 - FACILITY NATURAL-GAS PIPING

2.01 MATERIALS

2.03 CASINGS AND PLENUMS

2.04 LINE PRESSURE REGULATORS AND APPLIANCE REGULATORS

B. PIPE HANGERS AND SUPPORTS:

B. SECURE REGULATORS TO PIPING BY MEANS OF BOLTS AND NUTS.

B. HANGER FASTENERS:  ATTACH HANGERS TO STRUCTURE USING APPROPRIATE FASTENERS, AS FOLLOWS:

B. DETAILED INSTALLATION OF SERVICE UTILITIES.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. INSTALL IN ACCORDANCE WITH ASME B31.9.

B. IF TYPE OF HANGER OR SUPPORT FOR A PARTICULAR SITUATION IS NOT INDICATED, SELECT APPROPRIATE TYPE USING MANUFACTURERS CATALOG INFORMATION.  INDICATE VALVE DATA AND RATINGS.

B.铤 INSTALLED IN PLACE OF RECTANGULAR DUCTS IN ACCORDANCE WITH ASHRAE (FUND) HANDBOOK - FUNDAMENTALS.

B. INSTALLED IN PLACE OF SLEEVE INSULATION FOR DUCTS IN ACCORDANCE WITH SMACNA (DCS) AND AS INDICATED.

B. INSTALLER’S QUALIFICATION STATEMENT.

B. PREINSTALLATION MEETING:  CONDUCT A PREINSTALLATION MEETING ONE WEEK PRIOR TO THE START OF THE WORK OF THIS SECTION.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. MANUFACTURER’S NAME AND PRESSURE RATING MARKED ON VALVE BODY.

B. FOR INSTALLATION OF SERVICE UTILITIES.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. ATTACH HANGERS TO STRUCTURE USING APPROPRIATE FASTENERS, AS FOLLOWS:

B. MANUFACTURER’S NAME AND PRESSURE RATING MARKED ON VALVE BODY.

B. MATERIALS IN CONTACT WITH GAS:

B. LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.


B. LEVEL AND PLUMB CHIMNEY AND STACKS.

B. MANUFACTURERS CATALOG INFORMATION.  INDICATE VALVE DATA AND RATINGS.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. MANUFACTURER’S NAME AND PRESSURE RATING MARKED ON VALVE BODY.


B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA (DCS) AND AS INDICATED.

B. CORRUGATED DUCT SEALANT:


B. FOR INSTALLATION OF SERVICE UTILITIES.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. BUILDING SERVICES PIPING 2020.

B. MATERIALS IN CONTACT WITH GAS:

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. PIPING MATERIALS:

B. MANUFACTURER’S NAME AND PRESSURE RATING MARKED ON VALVE BODY.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. ASME B16.21 COMPOSITION RING, 0.0625 INCH THICK.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. UNIONS FOR PIPE SIZES 3 INCHES AND UNDER:

B. MATERIALS IN CONTACT WITH GAS:

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.


B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.

B. INSTALL IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.
1. PROVIDE AND INSTALL NEW UPDATED, TYPED OR COMPUTER GENERATED, PANEL DIRECTORY (IES) AT
   PROVIDER SERIES.
2. IF A CIRCUIT IS REMOVED BACK TO THE PANEL DURING REMOVALS OR IS NO LONGER NEEDED, TURN
   THE BREAKER OFF AND UPDATE THE PANEL DIRECTORY TO READ "SPARE"
3. IF A CIRCUIT IS REMOVED BACK TO THE PANEL DURING REMOVALS OR IS NO LONGER NEEDED, TURN
   THE BREAKER OFF AND UPDATE THE PANEL DIRECTORY TO READ "SPARE"
4. ALL WORK DESCRIBED ON THE DRAWINGS AND ALL WORK REQUIRED BY THIS CONTRACT SHALL BE
   EXECUTED IN A THOROUGHLY SUBSTANTIAL AND WORKMANLIKE MANNER BY SKILLED MECHANICS IN THE
   EXPRESSED PERMISSION OF THE OWNER. AMPLE WRITTEN NOTICE OF SHUTDOWNS SHALL BE GIVEN WELL
   IN ADVANCE OF FINISH CONSTRUCTION.
5. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
6. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
7. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
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16. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
17. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
18. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
19. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
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22. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
23. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
24. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
25. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
26. PROVIDE AND INSTALL BOX AND CONDUIT FOR ALL TELECOMMUNICATIONS AND A/V DEVICES.
PART 2  PRODUCTS
SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

2.02 CONDUCTOR AND CABLE GENERAL REQUIREMENTS

B. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.
E. SERVICE ENTRANCE CABLE IS NOT PERMITTED.
H. CONDUCTOR MATERIAL:
   E. THERMOPLASTIC-INSULATED CONDUCTORS AND CABLES: LISTED AND LABELED AS COMPLYING WITH UL 83.
G. NECA 1 - STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION 2015.
C. NONMETALLIC-SHEATHED CABLE IS NOT PERMITTED.
A. PRODUCT DATA: PROVIDE MANUFACTURER’S STANDARD CATALOG PAGES AND DATA SHEETS FOR CONDUCTORS AND CABLES.

STIPULATED BY PRODUCT TESTING AGENCY. INCLUDE INSTRUCTIONS FOR STORAGE, HANDLING, PROTECTION, INSTALLATION, AND TERMINATION.

3. COLOR CODE:
d. FOR MODIFICATIONS OR ADDITIONS TO EXISTING WIRING SYSTEMS, COMPLY WITH EXISTING COLOR CODE WHEN INSTALLING.

2. WHEN CIRCUIT DESTINATION IS INDICATED WITHOUT SPECIFIC ROUTING, DETERMINE EXACT ROUTING REQUIRED.
4. INCLUDE CIRCUIT LENGTHS REQUIRED TO INSTALL CONNECTED DEVICES WITHIN 10 FT OF LOCATION INDICATED.
C. CONNECTORS FOR GROUNDING AND BONDING:
G. GROUNDING FOR SEPARATE BUILDING OR STRUCTURE SUPPLIED BY FEEDER(S) OR BRANCH CIRCUITS:

D. FIELD QUALITY CONTROL TEST REPORTS.
B. PRODUCT LISTING ORGANIZATION QUALIFICATIONS: AN ORGANIZATION RECOGNIZED BY OSHA AS A NATIONALLY RECOGNIZED TESTING LABORATORY.
C. PERFORM GROUND ELECTRODE RESISTANCE TESTS UNDER NORMALLY DRY CONDITIONS. PRECIPITATION WITHIN THE LAST 7 DAYS IS NOT PERMITTED.

A. GENERAL REQUIREMENTS:
C. CONNECTORS FOR GROUNDING AND BONDING:
5. STEEL: USE BEAM CLAMPS, MACHINE BOLTS, OR WELDED THREADED STUDS.
6. SHEET METAL: USE SHEET METAL SCREWS.
3. COORDINATE COMPATIBILITY OF SUPPORT AND ATTACHMENT COMPONENTS WITH MOUNTING SURFACES AT THE MOUNTING SCALE.
4. MECHANICAL CONNECTORS: SECURE CONNECTIONS ACCORDING TO MANUFACTURER’S RECOMMENDED TORQUE AND FASTENING SPECIFICATIONS.

3. CONDUCTORS FOR CONTROL CIRCUITS: USE CRIMPED TERMINALS FOR ALL CONNECTIONS.

1. COMPLY WITH NEMA GR 1.
2. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH UL 467 WHERE APPLICABLE.

1. GET REINSTATEMENT TESTING SPECIFICATIONS AS PERMITTED IN PART 2 UNDER “COLOR CODING”, APPLY HALF OVERLAPPING TURNS OF TAPE AT EACH JOINT, EFFECTIVE EDGE TO EFFECTIVE EDGE, FOR BARE AND INSULATED TERMINALS.
2. USE ONLY RUBBER SPlicing ELECTRICAL TAPE, ELEcTrical TAPE WITH A THICKNESS OF 7 MIL; RESISTANT TO ABRASION, CORROSION, AND SUNLIGHT; CONFORMABLE FOR APPLICATION DOWN TO L/1000 INCHES.
3. CEMENT OR ADHESIVE TAPE AND ELECTRICAL TAPE ARE NOT PERMITTED.

F. SECURE AND SUPPORT CONDUCTORS AND CABLES IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND MOUNTING HARDWARE.

1. FIELD MEASUREMENTS ARE AS INDICATED OR PERMITTED.
2. WHEN CIRCUIT CONDUCTOR SIZES ARE INCREASED FOR VOLTAGE DROP, INCREASE SIZE OF EQUIPMENT GROUNDING AND BONDING WIRE TO PROVIDE ADDITIONAL CURRENT CARRYING CAPACITY.

2. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH UL 508.
3. FOR EACH DISCONNECTING MEANS, PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT EQUIPMENT GROUND TO GROUNDING ELECTRODE SYSTEM.

1. OUTDOOR INSTALLATIONS: UNLESS OTHERWISE INDICATED, INSTALL WITH TOP OF ROD 6 INCHES BELOW FINISHED GRADE.
2. PROVIDE PRODUCTS CONTACTS AND TERMINALS COMPLIANT TO A RAINWEATHER HYDROSTATIC PRESSURE OF 100 LBS PER SQUARE INCH.

4. DO NOT MAKE ANY CONNECTIONS AND REMOVE ANY FACTORY-INSTALLED JUMPERS BETWEEN NEUTRAL (GROUNDED) BUS TO GROUNDING ELECTRODE SYSTEM.
A. GENERATORS, WHEN NEUTRAL IS SWITCHED IN THE TRANSFER SWITCH.

1. GENERATOR SYSTEMS:

1. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED OR PERMITTED.
2. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED OR PERMITTED.

A. MEASUREMENTS:
B. PROPERTIES:
C. MAXIMUM CURRENT CAPACITY:
D. CIRCUIT BREAKER PROTECTION:

3. FOR EACH DISCONNECTING MEANS, PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT EQUIPMENT GROUND TO GROUNDING ELECTRODE SYSTEM.
1. PERMIT REVISION 4/05/22
2. DO NOT REMOVE CONDUCTOR STRANDS TO FACILITATE INSERTION INTO CONNECTOR.
3. DO NOT REMOVE CONDUCTOR STRANDS TO FACILITATE INSERTION INTO CONNECTOR.

D. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED.
E. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED.
F. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED.

1. SECURE AND SUPPORT CONDUCTORS AND CABLES IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND MOUNTING HARDWARE.
2. SECURE AND SUPPORT CONDUCTORS AND CABLES IN ACCORDANCE WITH NFPA 70 USING SUITABLE SUPPORTS AND MOUNTING HARDWARE.

2. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH UL 508.
3. FOR EACH DISCONNECTING MEANS, PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT EQUIPMENT GROUND TO GROUNDING ELECTRODE SYSTEM.

1. GENERATOR SYSTEMS:

1. GENERATOR SYSTEMS:

2. PROVIDE PRODUCTS LISTED AND LABELED AS COMPLYING WITH UL 508.
3. FOR EACH DISCONNECTING MEANS, PROVIDE GROUNDING ELECTRODE CONDUCTOR TO CONNECT EQUIPMENT GROUND TO GROUNDING ELECTRODE SYSTEM.

1. GENERATOR SYSTEMS:
1.02 ADMINISTRATIVE REQUIREMENTS
SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

3.03 FIELD QUALITY CONTROL
I. CONDUIT SUPPORT AND ATTACHMENT: ALSO COMPLY WITH SECTION 260533.13.

D. CONCEALED WITHIN MASONRY WALLS: USE

B. PROJECT RECORD DOCUMENTS: RECORD ACTUAL ROUTING FOR

F. NECA 111 - STANDARD FOR INSTALLING NONMETALLIC RACEWAYS (RNC, ENT, LFNC) 2017.

L. SECURE FASTENERS ACCORDING TO MANUFACTURER'S RECOMMENDED TORQUE SETTINGS.

C. ANSI C80.6 - AMERICAN NATIONAL STANDARD FOR ELECTRICAL INTERMEDIATE METAL CONDUIT 2018.

A. PRODUCT LISTING ORGANIZATION QUALIFICATIONS: ORGANIZATION RECOGNIZED BY OSHA AS NATIONALLY RECOGNIZED

A. DO NOT USE CONDUIT AND ASSOCIATED FITTINGS FOR APPLICATIONS OTHER THAN AS PERMITTED BY NFPA 70,

1. DRY LOCATIONS: USE FLEXIBLE METAL CONDUIT (FMC).

OR GALVANIZED STEEL INTERMEDIATE METAL CONDUIT (IMC)

3. EXTERIOR, EMBEDDED WITHIN CONCRETE: USE

4. WHERE

RIGID PVC CONDUIT

GALVANIZED STEEL RIGID METAL CONDUIT (RMC) OR GALVANIZED STEEL

PVC-COATED GALVANIZED STEEL

1. MANUFACTURER: SAME AS MANUFACTURER OF PVC-COATED CONDUIT TO BE INSTALLED.

1. DESCRIPTION: FITTINGS COMPLYING WITH NEMA FB 1 AND LISTED AND LABELED AS COMPLYING WITH UL 514B.

6. ARRANGE CONDUIT TO MAINTAIN ADEQUATE HEADROOM, CLEARANCES, AND ACCESS.

5. CONDUITS INSTALLED UNDERGROUND OR EMBEDDED IN CONCRETE MAY BE ROUTED IN SHORTEST POSSIBLE MANNER

2-INCH (53 MM) TRADE SIZE AND LARGER

5. NOTIFY ARCHITECT OF CONFLICTS WITH OR DEVIATIONS FROM CONTRACT DOCUMENTS. OBTAIN DIRECTION BEFORE

PROCEEDING WITH WORK.

4. SECURELY FASTEN FLOOR-MOUNTED EQUIPMENT. DO NOT INSTALL EQUIPMENT SUCH THAT IT RELIES ON ITS OWN

5. TERMINATE THREADED CONDUITS IN BOXES AND ENCLOSURES USING THREADED HUBS OR DOUBLE LOCK NUTS FOR DRY

3. CONNECTORS AND COUPLINGS: USE COMPRESSION/GLAND OR SET-SCREW TYPE.

2. LOCATE BOXES AS REQUIRED FOR DEVICES INSTALLED UNDER OTHER SECTIONS OR BY OTHERS.

4. USE SUITABLE MASONRY TYPE BOXES WHERE FLUSH-MOUNTED IN MASONRY WALLS.

5. TERMINATE THREADED CONDUITS IN BOXES AND ENCLOSURES USING THREADED HUBS OR DOUBLE LOCK NUTS FOR DRY

2. COORDINATE ARRANGEMENT OF ELECTRICAL EQUIPMENT WITH THE DIMENSIONS AND CLEARANCE REQUIREMENTS OF

ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

1. USE APPROVED ZINC-RICH PAINT OR CONDUIT JOINT COMPOUND ON FIELD-CUT THREADS OF GALVANIZED STEEL

2. MAKE PENETRATIONS PERPENDICULAR TO SURFACES UNLESS OTHERWISE INDICATED.

6. LOCATE JUNCTION AND PULL BOXES AS INDICATED, AS REQUIRED TO FACILITATE INSTALLATION OF CONDUCTORS, AND

5. TERMINATE THREADED CONDUITS IN BOXES AND ENCLOSURES USING THREADED HUBS OR DOUBLE LOCK NUTS FOR DRY

3. CONNECTORS AND COUPLINGS: USE COMPRESSION/GLAND OR SET-SCREW TYPE.

2. LOCATE BOXES AS REQUIRED FOR DEVICES INSTALLED UNDER OTHER SECTIONS OR BY OTHERS.

4. USE SUITABLE MASONRY TYPE BOXES WHERE FLUSH-MOUNTED IN MASONRY WALLS.

5. TERMINATE THREADED CONDUITS IN BOXES AND ENCLOSURES USING THREADED HUBS OR DOUBLE LOCK NUTS FOR DRY

2. COORDINATE ARRANGEMENT OF ELECTRICAL EQUIPMENT WITH THE DIMENSIONS AND CLEARANCE REQUIREMENTS OF

1. USE APPROVED ZINC-RICH PAINT OR CONDUIT JOINT COMPOUND ON FIELD-CUT THREADS OF GALVANIZED STEEL

2. MAKE PENETRATIONS PERPENDICULAR TO SURFACES UNLESS OTHERWISE INDICATED.

6. LOCATE JUNCTION AND PULL BOXES AS INDICATED, AS REQUIRED TO FACILITATE INSTALLATION OF CONDUCTORS, AND

5. TERMINATE THREADED CONDUITS IN BOXES AND ENCLOSURES USING THREADED HUBS OR DOUBLE LOCK NUTS FOR DRY
PART 1  GENERAL

SECTION 260548 - VIBRATION CONTROLS FOR ELECTRICAL SYSTEMS

3.02 INSTALLATION

2.02 VIBRATION ISOLATORS

D. SECURE FASTENERS ACCORDING TO MANUFACTURER'S RECOMMENDED TORQUE SETTINGS.

A. RECEIVE, INSPECT, HANDLE, AND STORE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

A. GENERAL REQUIREMENTS:

1. VERIFY ISOLATOR STATIC DEFLECTIONS.

b. LATERAL STABILITY: MINIMUM LATERAL STIFFNESS TO VERTICAL STIFFNESS RATIO OF 0.8.

a. SPECIFIED VIBRATION ISOLATORS ARE IN ADDITION TO ANY FACTORY-INSTALLED INTERNAL VIBRATION ISOLATORS THAT EXCESSIVE WEIGHT OR STRESS IS NOT PLACED ON ANY SINGLE ISOLATOR.

1.04 QUALITY ASSURANCE

2.01 IDENTIFICATION REQUIREMENTS

D. FORMAT FOR GENERAL INFORMATION AND OPERATING INSTRUCTIONS:

C. IDENTIFICATION FOR CONDUCTORS AND CABLES:

1. MINIMUM SIZE: 1 INCH BY 2.5 INCHES.

3. USE WIRE AND CABLE MARKERS TO IDENTIFY CIRCUIT NUMBER OR OTHER DESIGNATION INDICATED FOR POWER, GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

2. PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND INTERSECTION.

4. INTERIOR COMPONENTS: LEGIBLE FROM THE POINT OF ACCESS.

C. LEGEND: LOAD CONTROLLED OR OTHER DESIGNATION INDICATED.

4. MINIMUM TEXT HEIGHT: 3/16 INCH.

B. FLOOR MARKING TAPE FOR EQUIPMENT WORKING CLEARANCE IDENTIFICATION: SELF-ADHESIVE VINYL OR POLYESTER RATED 600 VOLTS OR LESS 2013.

A. MARKERS FOR CONDUCTORS AND CABLES: USE WRAP-AROUND SELF-ADHESIVE VINYL CLOTH, WRAP-AROUND TYPE MARKERS SUITABLE FOR THE CONDUCTOR OR CABLE TO BE IDENTIFIED.

2. LEGEND: LOAD CONTROLLED OR OTHER DESIGNATION INDICATED.

5. CONDUCTORS AND CABLES: LEGIBLE FROM THE POINT OF ACCESS.

A. FLOOR MARKING TAPE FOR EQUIPMENT WORKING CLEARANCE IDENTIFICATION: SELF-ADHESIVE VINYL OR POLYESTER RATED 600 VOLTS OR LESS 2013.

D. CIRCUIT BREAKERS:

1. MATERIALS: USE FACTORY PRE-PRINTED OR MACHINE-PRINTED SELF-ADHESIVE POLYESTER OR SELF-ADHESIVE VINYL CONNECTORS, MOUNTING HARDWARE AND ALL OTHER REQUIRED PROVISIONS.

B. PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND INTERSECTION.

2. PROVIDE THERMAL MAGNETIC CIRCUIT BREAKERS UNLESS OTHERWISE INDICATED.

D. BUSSING: SIZED IN ACCORDANCE WITH UL 67 TEMPERATURE RISE REQUIREMENTS.

C. BUSSING:

1. MATERIALS: USE FACTORY PRE-PRINTED OR MACHINE-PRINTED SELF-ADHESIVE POLYESTER OR SELF-ADHESIVE VINYL CONNECTORS, MOUNTING HARDWARE AND ALL OTHER REQUIRED PROVISIONS.

2. PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND INTERSECTION.

A. PANELBOARDS CONTAINING CIRCUIT BREAKERS: BETWEEN 23 DEGREES F AND 104 DEGREES F.

3. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

4. USE WARNING LABELS, IDENTIFICATION NAMEPLATES, OR IDENTIFICATION LABELS TO IDENTIFY ELECTRICAL HAZARDS FOR POWER DISTRIBUTION PANELBOARDS WITHOUT A DOOR, USE IDENTIFICATION NAMEPLATE.

5. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

6. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

7. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

8. CONDUCTORS AND CABLES: LEGIBLE FROM THE POINT OF ACCESS.

A. FLOOR MARKING TAPE FOR EQUIPMENT WORKING CLEARANCE IDENTIFICATION: SELF-ADHESIVE VINYL OR POLYESTER RATED 600 VOLTS OR LESS 2013.

D. BUSWAY:

1. MATERIALS: USE FACTORY PRE-PRINTED OR MACHINE-PRINTED SELF-ADHESIVE POLYESTER OR SELF-ADHESIVE VINYL CONNECTORS, MOUNTING HARDWARE AND ALL OTHER REQUIRED PROVISIONS.

B. PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND INTERSECTION.

2. PROVIDE THERMAL MAGNETIC CIRCUIT BREAKERS UNLESS OTHERWISE INDICATED.

D. BUSSING: SIZED IN ACCORDANCE WITH UL 67 TEMPERATURE RISE REQUIREMENTS.

C. BUSSING:

1. MATERIALS: USE FACTORY PRE-PRINTED OR MACHINE-PRINTED SELF-ADHESIVE POLYESTER OR SELF-ADHESIVE VINYL CONNECTORS, MOUNTING HARDWARE AND ALL OTHER REQUIRED PROVISIONS.

2. PROVIDE SOLIDLY BONDED EQUIPMENT GROUND BUS IN EACH PANELBOARD, WITH A SUITABLE LUG FOR EACH FEEDER AND INTERSECTION.

A. PANELBOARDS CONTAINING CIRCUIT BREAKERS: BETWEEN 23 DEGREES F AND 104 DEGREES F.

3. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

4. USE WARNING LABELS, IDENTIFICATION NAMEPLATES, OR IDENTIFICATION LABELS TO IDENTIFY ELECTRICAL HAZARDS FOR POWER DISTRIBUTION PANELBOARDS WITHOUT A DOOR, USE IDENTIFICATION NAMEPLATE.

5. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

6. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

7. USE IDENTIFICATION NAMEPLATE OR IDENTIFICATION LABEL TO IDENTIFY COLOR CODE FOR UNGROUNDED AND GROUNDED POWER CONDUCTORS INSIDE DOOR OR ENCLOSURE AT EACH PIECE OF FEEDER OR BRANCH-CIRCUIT AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR INSTALLATION.

8. CONDUCTORS AND CABLES: LEGIBLE FROM THE POINT OF ACCESS.

A. FLOOR MARKING TAPE FOR EQUIPMENT WORKING CLEARANCE IDENTIFICATION: SELF-ADHESIVE VINYL OR POLYESTER RATED 600 VOLTS OR LESS 2013.
PART 3  EXECUTION

SECTION 262416 - PANELBOARDS

3.03 CLEANING

B. VERIFY THAT THE RATINGS AND CONFIGURATIONS OF THE PANELBOARDS AND ASSOCIATED COMPONENTS ARE B. REPAIR SCRATCHED OR MARRED EXTERIOR SURFACES TO MATCH ORIGINAL FACTORY FINISH.

C. PROVIDE WEATHER RESISTANT GFCI RECEPTACLES WITH SPECIFIED WEATHERPROOF COVERS FOR RECEPTACLES A. COORDINATION:

INTO ACCESSIBLE SPACE ABOVE CEILING AND BELOW FLOOR.

NFPA 70.

CONSISTENT WITH THE INDICATED REQUIREMENTS.

7. PROVIDE THE FOLLOWING CIRCUIT BREAKER TYPES WHERE INDICATED:

1. SOURCE LIMITATIONS:  WHERE WALL CONTROLS ARE FURNISHED AS PART OF LIGHTING CONTROL SYSTEM, PROVIDE

A. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.

2. COORDINATE ARRANGEMENT OF ELECTRICAL EQUIPMENT WITH THE DIMENSIONS AND CLEARANCE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE INSTALLED.

3. SPARE FUSE CABINET KEYS:  TWO.

D. HORSEPOWER RATING:  SUITABLE FOR CONNECTED LOAD.

E. NFPA 70 - NATIONAL ELECTRICAL CODE MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

F. UL 50 - ENCLOSURES FOR ELECTRICAL EQUIPMENT, NON-ENVIRONMENTAL CONSIDERATIONS CURRENT EDITION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

C. UNLESS OTHERWISE INDICATED, PROVIDE PRODUCTS SUITABLE FOR CONTINUOUS OPERATION UNDER THE FOLLOWING

G. UL 50E - ENCLOSURES FOR ELECTRICAL EQUIPMENT, ENVIRONMENTAL CONSIDERATIONS CURRENT EDITION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.

H. PROVIDE FUSES COMPLYING WITH SECTION 262813 FOR FUSIBLE SWITCHES AS INDICATED OR AS REQUIRED BY EQUIPMENT

A. PROVIDE MINIMUM

5. NOTIFY ARCHITECT OF ANY CONFLICTS WITH OR DEVIATIONS FROM CONTRACT DOCUMENTS. OBTAIN DIRECTION BEFORE

J. RETURNS TO FACTORY FOR SERVICE OR REPAIRS:  MEET FACTORY SPECIFICATIONS AND INSTALLATION NAMEPLATE DATA FOR EQUIPMENT.

K. MATERIALS NEEDED FOR REPAIR OR SERVICE:  MEET FACTORY SPECIFICATIONS.

L. PROLONGED ACCOUNTABILITY:  RECORD ACTUAL LOCATIONS OF ENCLOSED SWITCHES.

M. PROVIDE SAFETY INTERLOCK TO PREVENT OPENING THE COVER WITH THE SWITCH IN THE ON POSITION WITH CAPABILITY

NOTICE OF THE DEPARTMENTS MAY BE REQUIRED FROM THE LOCAL OR STATE FIRE DEPARTMENT OR OTHER AUTHORITY HAVING JURISDICTION.

EXCEPT WHERE INDICATED TO BE MOUNTED ADJACENT TO THE EQUIPMENT THEY SUPPLY, MOUNT ENCLOSED SWITCHES

E.öhne-Typische hervorragende Siltman & Omholt Associates. Zubehör...
SECTION 263213 - ENGINE GENERATORS

2.02 PACKAGED ENGINE GENERATOR SYSTEM

2.01 MANUFACTURERS

2.03 ENGINE AND ENGINE ACCESSORY EQUIPMENT

F. SERVICE CONDITIONS: PROVIDE ENGINE GENERATOR SYSTEM AND ASSOCIATED COMPONENTS SUITABLE FOR OPERATION

E. GENERATOR SET GENERAL REQUIREMENTS:

C. ENGINE STARTING SYSTEM:

G. STARTING AND LOAD ACCEPTANCE REQUIREMENTS:

A. PACKAGED ENGINE GENERATOR SET:

1. SYSTEM TYPE: CLOSED-LOOP, LIQUID-COOLED, WITH UNIT-MOUNTED RADIATOR/FAN AND ENGINE-DRIVEN COOLANT

1. APPLICATION: EMERGENCY/STANDBY

1. CRANKING METHOD: CYCLE CRANKING COMPLYING WITH NFPA 110 (15 SECOND CRANK PERIOD, FOLLOWED BY 15 SECONDS CRANK PERIOD)

3. GENERAC POWER SYSTEMS

6. MAIN LINE CIRCUIT BREAKERS: PROVIDE FACTORY-INSTALLED LINE SIDE CONNECTIONS WITH SUITABLE LUGS FOR LOAD ACCEPTANCE

2. CRANKING LIMITER TIME-OUT: IF GENERATOR SET FAILS TO START AFTER SPECIFIED CRANKING PERIOD, INDICATE

4. KOHLER CO.

4. MAIN LINE CIRCUIT BREAKER:

PERFORMANCE REQUIREMENTS, WHERE SPECIFIED.

RADIATOR DUCT FLANGE/ADAPTER.

FACTORY EMISSIONS CERTIFICATION WITH SUBMITTALS.

b. GAS PRESSURE REGULATORS.

b. BATTERY CAPACITY: SIZE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR ACHIEVING STARTING AND LOAD ACCEPTANCE REQUIREMENTS UNDER WORST CASE AMBIENT TEMPERATURE; CAPABLE OF PROVIDING

1) SHUNT TRIP.

2) LOW COOLANT TEMPERATURE (WARNING).

3) OVERSPEED (SHUTDOWN).

4) GENERATING SET PROTECTION AND WARNING/SHUTDOWN INDICATIONS:

5) LOW OIL PRESSURE (SHUTDOWN).

6) OVERSPEED (SHUTDOWN).

7) ENGINE COOLANT TEMPERATURE.

8) LOW COOLANT LEVEL (WARNING/SHUTDOWN).

9) GENERATING SET EXCITATION WARNING/SHUTDOWN INDICATIONS:

10) OVERSPEED LIMITS (SHUTDOWN)

11) LOW CRANKING VOLTAGE (WARNING).

12) GENERATING SET EXCITATION SHORT-CIRCUIT CURRENT SUPPORT: CAPABLE OF SUSTAINING 300 PERCENT OF RATED OUTPUT

13) BATTERY CHARGER FAILURE (WARNING).

A. ENCLOSURE TYPE: OPEN GENERATOR SET FOR INDOOR INSTALLATION

1. EXCITER TYPE: BRUSHLESS; PROVIDE PERMANENT MAGNET GENERATOR (PMG) EXCITATION SYSTEM; SELF-EXCITED

2. PMG EXCITATION SHORT-CIRCUIT CURRENT SUPPORT: CAPABLE OF SUSTAINING 300 PERCENT OF RATED OUTPUT

3. GENERATING SET STATUS INDICATIONS:

2. GENERATOR SET STATUS INDICATIONS:

f. ANNUNCIATOR MOUNTING: WALL-MOUNTED; PROVIDE

m. ENGINE RUN TIME.

l. ENGINE COOLANT TEMPERATURE.

C. GENERATING SET PROTECTION:

5. VERIFY SERVICEABILITY OF ENGINE GENERATOR SYSTEM

A. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED.

PERFORM INSPECTION AND TESTING. INCLUDE MANUFACTURER'S DETAILED TESTING PROCEDURES AND FIELD REPORTS

B. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

F. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 260529.

K. PROVIDE ENGINE EXHAUST PIPING IN ACCORDANCE WITH SECTION 235100, WHERE NOT FACTORY INSTALLED.

L. SUBMIT DETAILED REPORTS INDICATING INSPECTION AND TESTING RESULTS AND CORRECTIVE ACTIONS TAKEN.

G. PROVIDE REQUIRED VIBRATION ISOLATION AND/OR SEISMIC CONTROLS IN ACCORDANCE WITH SECTION 260548.

I. PROVIDE FIELD EMISSIONS TESTING WHERE NECESSARY FOR CERTIFICATION.

B. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

F. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 260529.

K. PROVIDE ENGINE EXHAUST PIPING IN ACCORDANCE WITH SECTION 235100, WHERE NOT FACTORY INSTALLED.

L. SUBMIT DETAILED REPORTS INDICATING INSPECTION AND TESTING RESULTS AND CORRECTIVE ACTIONS TAKEN.

G. PROVIDE REQUIRED VIBRATION ISOLATION AND/OR SEISMIC CONTROLS IN ACCORDANCE WITH SECTION 260548.

I. PROVIDE FIELD EMISSIONS TESTING WHERE NECESSARY FOR CERTIFICATION.

B. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

F. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 260529.

K. PROVIDE ENGINE EXHAUST PIPING IN ACCORDANCE WITH SECTION 235100, WHERE NOT FACTORY INSTALLED.

L. SUBMIT DETAILED REPORTS INDICATING INSPECTION AND TESTING RESULTS AND CORRECTIVE ACTIONS TAKEN.

G. PROVIDE REQUIRED VIBRATION ISOLATION AND/OR SEISMIC CONTROLS IN ACCORDANCE WITH SECTION 260548.

I. PROVIDE FIELD EMISSIONS TESTING WHERE NECESSARY FOR CERTIFICATION.

B. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

F. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 260529.

K. PROVIDE ENGINE EXHAUST PIPING IN ACCORDANCE WITH SECTION 235100, WHERE NOT FACTORY INSTALLED.

L. SUBMIT DETAILED REPORTS INDICATING INSPECTION AND TESTING RESULTS AND CORRECTIVE ACTIONS TAKEN.

G. PROVIDE REQUIRED VIBRATION ISOLATION AND/OR SEISMIC CONTROLS IN ACCORDANCE WITH SECTION 260548.

I. PROVIDE FIELD EMISSIONS TESTING WHERE NECESSARY FOR CERTIFICATION.

B. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

F. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 260529.

K. PROVIDE ENGINE EXHAUST PIPING IN ACCORDANCE WITH SECTION 235100, WHERE NOT FACTORY INSTALLED.

L. SUBMIT DETAILED REPORTS INDICATING INSPECTION AND TESTING RESULTS AND CORRECTIVE ACTIONS TAKEN.

G. PROVIDE REQUIRED VIBRATION ISOLATION AND/OR SEISMIC CONTROLS IN ACCORDANCE WITH SECTION 260548.

I. PROVIDE FIELD EMISSIONS TESTING WHERE NECESSARY FOR CERTIFICATION.

B. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

F. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 260529.

K. PROVIDE ENGINE EXHAUST PIPING IN ACCORDANCE WITH SECTION 235100, WHERE NOT FACTORY INSTALLED.

L. SUBMIT DETAILED REPORTS INDICATING INSPECTION AND TESTING RESULTS AND CORRECTIVE ACTIONS TAKEN.
EXISTING ELECTRIC UTILITY METER TO REMAIN.
EXISTING DISC SWITCHES TO REMAIN.
EXISTING 400A MAIN DISC SWITCH TO REMAIN.
EXISTING UTILITY CT CABINET TO REMAIN.
EXISTING TRANSFER SWITCH TO REMAIN.
EXISTING 45kW GENERATOR TO BE ABANDONED.

Conduits to rise along outside of building and penetrate thru wall at ceiling level. These conduits will no longer be required once the collections storage project is completed.

Conduit ductbank to mower house. Refer to civil DWGs for add'l routing details.

Conduits between mower house and garage:
- (1) 4" - ATS emergency feeder
- (3) 4" - spare
- (1) 2" - gen controls
- (1) 2" - panel L-MH feeder
- (1) 2" - spare

Existing below grade conduit(s)

New panel L-MH
New dist panel GEN-DP

Install open packaged generator set per manufacturer's instructions

Conduit ductbank to garage.
Refer to civil DWGs for add'l routing details.

Below slab conduits

Generator emergency power off (EPO) mushroom button

Stub-up (2) conduits along wall:
- 2" - controls
- 2" - spare

Connect new lighting to existing mower house lighting circuit
Provide new circuit from existing mower house panel
Provide new circuit from existing mower house panel

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