RIVER ROAD FIRE STATION
10716 River Road, Ridgeway, SC 29130

PACKAGE
BID SET
07-05-2022

VICINITY MAP
LOCATION MAP

10716 River Road, Ridgeway, SC 29130

COVER SHEET

RIVER ROAD FIRE STATION
10716 River Road
Ridgeway, SC 29130

PLUMBING
P-101 PLUMBING FLOOR PLAN - WASTE AND VENT 6-1-2022 7-5-2022
P-102 PLUMBING FLOOR PLAN - WATER SUPPLY 6-1-2022 7-5-2022
P-103 PLUMBING SCHEDULES & DETAILS 6-1-2022 7-5-2022

ELECTRICAL
E-001 ELECTRICAL NOTES & LEGENDS 6-1-2022 7-5-2022
E-002 LIGHTING, EQUIPMENT SCHEDULES, COMM. RISER 6-1-2022 7-5-2022
E-003 ELECTRICAL ONE-LINE DIAGRAM 6-1-2022 7-5-2022
E-100 ELECTRICAL SITE PLAN 6-1-2022 7-5-2022
E-201 LIGHTING PLAN 6-1-2022 7-5-2022
E-301 POWER AND SYSTEMS PLAN 6-1-2022 7-5-2022
E-600 ELECTRICAL PANEL SCHEDULE 6-1-2022 7-5-2022
E-701 ELECTRICAL SPECIFICATIONS 7-5-2022
E-702 ELECTRICAL SPECIFICATIONS 7-5-2022
E-703 ELECTRICAL SPECIFICATIONS 7-5-2022
E-704 ELECTRICAL SPECIFICATIONS 7-5-2022
E-705 ELECTRICAL SPECIFICATIONS 7-5-2022
E-706 ELECTRICAL SPECIFICATIONS 7-5-2022
E-707 ELECTRICAL SPECIFICATIONS 7-5-2022
E-708 ELECTRICAL SPECIFICATIONS 7-5-2022

GENERAL
G-001 COVER SHEET 6-1-2022 7-5-2022
G-002 LIFE SAFETY PLAN AND CODE INFO 6-1-2022 7-5-2022

ARCHITECTURE
AS-101 SITE PLAN 6-1-2022 7-5-2022
A-110 PROPOSED FLOOR PLAN 6-1-2022 7-5-2022
A-201 EXTERIOR ELEVATIONS 6-1-2022 7-5-2022
A-202 EXTERIOR ELEVATIONS 6-1-2022 7-5-2022

MECHANICAL
M-101 MECHANICAL FLOOR PLAN 6-1-2022 7-5-2022
M-201 MECHANICAL SCHEDULES 6-1-2022 7-5-2022
M-301 MECHANICAL DETAILS 6-1-2022 7-5-2022
M-302 MECHANICAL DETAILS 6-1-2022 7-5-2022

REVIEWS
No. Description Date

INFRASHEET INC.
110 Midlands Court
West Columbia, SC 29169
803-822-0333

19-72.08

07-05-2022

CODE PLAN LEGEND

- Door on Hold Open / Release
- Door-Connect to Fire Alarm
- Exit Light
- Direction of Travel
- Egress Travel Distance
- New Wall
- Door Rating (minutes)

DOOR CLEARANCES

NOTE: X = 12' IF DOOR HAS BOTH A CLOSER AND A LATCH
PUH-1
ROUTE 6"Ø EXHAUST DUCT UP THROUGH ROOF TO ROOF CAP BY FAN MFR. (GREENHECK RJ-6x9)
MOUND UNIT HEATERS 14' AFF.
RESTROOM EXHAUST FAN TO BE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR.
MOUNT ELECTRIC WALL HEATER 18" AFF.
MOUNT FAN HIGH. DISCHARGE ABOVE LOW ROOF.
1 1/4" PROPANE LINE UP WALL TO 14' AFF.
1 1/4" PROPANE LINE STUB OUT FOR FUTURE CONNECTION TO PROPANE TANK. PROVIDE FOR 275 MBH AT 11" W.C.
ROUTE 3/4" PIPE FROM PROPANE MAIN LINE TO UNIT HEATER. (TYP. OF 2)
PROVIDE 1" TAP FOR FUTURE USE AND CAP.
SWPF-1 SHALL BE AUTOMATICALLY OPERATED BY CARBON MONOXIDE AND NITROGEN DIOXIDE DETECTORS.
TRUCK BAYS
ELECT
SHELL
INTERLOCK MOTORIZED DAMPER WITH SWPF-1 OPERATION.
MOUNT LOUVER 3' AFF.
CO
NO
2
DO NOT SCALE DRAWINGS. ROUGH FROM EQUIPMENT MANUFACTURER AND ARCHITECTURAL DRAWINGS.

- GENERAL AND MECHANICAL CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO PROVIDE TESTING AND BALANCING OF ALL SYSTEMS BY A THIRD PARTY NEBB CERTIFIED T&B CONTRACTOR.

- COORDINATION OF ALL MECHANICAL SYSTEMS WITH OTHER DISCIPLINES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DUCTWRAP INSULATION SHALL BE SEALED PER MANUFACTURER'S RECOMMENDATIONS FOR GLASS FABRIC LOW PRESSURE DUCTWORK SHALL BE TESTED AND NOT EXCEED 10% AIRFLOW LOSS AT 2" PRESSURE CLASS.

- ALL DUCTWORK SHALL BE SEALED AIRTIGHT WITH MASTIC. NO HEAT SENSITIVE, PRESSURE SENSITIVE OR DUCT MASTIC INSTALLATIONS. NO PRESSURE SENSITIVE TAPE SHALL BE ALLOWED.

- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EQUIPMENT VOLTAGES, ELECTRICAL REQUIREMENTS AND INTERCONNECTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING SHOP DRAWINGS TO ENGINEER/ARCHITECT WITH "APPROVED" OR "APPROVED AS NOTED" STAMPS FOR ENGINEER'S DATE.

- DIMENSIONS NOTED ON PLANS ARE IN INCHES UNLESS OTHERWISE NOTED.

- PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.

- PROVIDE SWITCH-1 AND SWITCH-2 WITH INTEGRAL DISCONNECT.

- MIDLINE RUSSEL VENTURED FAN MOTOR.

- PRESSURE SENSITIVE TAPE SHALL BE ALLOWED.

- MECHANICAL CONTRACTORS SHALL INSURE THAT "NC" AND PERFORMANCE DATA MATCHES SPECIFIED DEVICES.

- ALL DUCTWORK SIZES NOTED ON PLANS ARE INTERIOR DIMENSIONS.

- DIMENSIONS NOTED ON PLANS ARE IN INCHES UNLESS OTHERWISE NOTED.

- PROVIDE FORCED AIR HEATER WITH TOTALLY ENCLOSED, PERMANENTLY LUBRICATED FAN SCHEDULE.

- PRIOR TO ORDERING, CONTRACTOR SHALL VERIFY VOLTAGE AND ALL ELECTRICAL REQUIREMENTS.

- PROVIDE SWPF-1 AND EF-1 WITH INTEGRAL DISCONNECT.

- Fuels Connection Size (In.)

- Flue Size (In.)

- Model Number

- Horsepower

- Temp Rise (Deg.F) Heating

- Volts

- Phase

- R.P.M.

- Drive Type

- Static Pressure (In.)

- Discharge Cap Number

- Remarks:

- Regulation

- Location

- Weight (Pound)

- Driving Motor

- Dimensions Noted On Plans Are In Inches Unless Otherwise Noted.
MECHANICAL DETAILS

10716 River Road
Ridgeway, SC 29130

RIVER ROAD FIRE STATION

NOTES:
- SECTIONAL AREA GREATER THAN OR EQUAL TO 6 SQ. FT.
- INSTALLATION PER SMACNA GUIDELINES.
- BRACING REQUIRED ON DUCTS WITH A CROSS

Scale:

Date:

Project Name:

Notes:

Project Number:

Checked by:

Designed by:

© IC E -E N G  20 22

ARCHITECTURE

1019 Midlands Court
Columbia, South Carolina 29201
Phone: (803) 765-9421
www.mecainc.com

MECA Consulting Associates, Inc.
Mechanical Engineering

RIVER ROAD FIRE STATION

MECHANICAL DETAILS

10716 River Road
Ridgeway, SC 29130

NOTES:
- SECTIONAL AREA GREATER THAN OR EQUAL TO 6 SQ. FT.
- INSTALLATION PER SMACNA GUIDELINES.
- BRACING REQUIRED ON DUCTS WITH A CROSS
NO SCALE

LOUVER WITH MOTORIZED DAMPER DETAIL

COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

CONTROL DAMPER BY "RUSKIN" MODEL # CD 60, MILL FINISH.

MOUNT OUTSIDE OF LOUVER IF DUCTWORK IS REQUIRED

MOUNTING CLIPS FURNISHED BY LOUVER MANUFACTURER.

SECURE LOUVER TO WALL THRU SHEETMETAL DUCTWORK.

SEALANT

IF NO DUCTWORK IS REQUIRED, COVER DAMPER OPENING WITH WELDED WIRE MESH. SECURE TO SLEEVE WITH MECHANICAL FASTENERS.

COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

NOTE:

WALL OPENING PER ARCHITECTURAL DRAWINGS.

INTERLOCK DAMPER WITH FAN STARTER SO THAT DAMPER IS FULLY OPEN BEFORE FAN MOTOR STARTS.

SECURE LOUVER TO WALL THRU SHEETMETAL DUCTWORK.

IF NO DUCTWORK IS REQUIRED, COVER DAMPER OPENING WITH WELDED WIRE MESH. SECURE TO SLEEVE WITH MECHANICAL FASTENERS.

MOUNTING CLIPS FURNISHED BY LOUVER MANUFACTURER.

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COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS.

NOTE:

WALL OPENING PER ARCHITECTURAL DRAWINGS.

INTERLOCK DAMPER WITH FAN STARTER SO THAT DAMPER IS FULLY OPEN BEFORE FAN MOTOR STARTS.

SECURE LOUVER TO WALL THRU SHEETMETAL DUCTWORK.
FIRST FLOOR PLUMBING PLAN - WASTE & VENT

PLUMBING ISOMETRIC VIEW - SANITARY AND VENT
HEAT TRACE AND INSULATE ALL PIPING IN UNCONDITIONED SHELL SPACE.

1" DOMESTIC WATER RISER. PROVIDE DOUBLE CHECK BACKFLOW PREVENTER AND ISOLATION VALVE IN RISER.

6" FIRE MAIN RUN IN BY SITE UTILITY CONTRACTOR TO 12" AFF FOR FUTURE SPRINKLER SYSTEM. MAINTAIN 2" ANNUAL SPACE AROUND PIPE AT SLAB.
GENERAL PLUMBING NOTES

PLUMBING CONTRACTOR SHALL VERIFY LOCATION, ELEVATIONS AND INVERTS OF ALL EXISTING SANITARY AND STORM SEWER SYSTEMS IDENTIFIED ON DRAWINGS. THIS VERIFICATION MUST BE SUBMITTED TO THE ARCHITECT PRIOR TO SUBMITTING SHOP DRAWING AND SHOP FITS TO THE ENGINEER.

PLUMBING CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH THE MUTUAL AGREEMENT OF THE ENGINEER AND OTHER TRADES. ALL PIPING SHELL BE SUPPORTED FROM STRUCTURAL STEEL AND/OR CONCRETE BASES AND STRUCTURE. PIPING SUPPORTED FROM ROOF, AND/OR FLOOR METAL DECKINGS WILL NOT BE ALLOWED.

PLUMBING CONTRACTOR SHALL VERIFY LOCATION AND PLACEMENT OF FIXTURES. ANY EQUIPMENT AND/OR FIXTURES INDICATED ON DRAWINGS PRIOR TO BID DATE AND VERIFY NUMBER AND LOCATION OF ALL WATER, SERVICE AND ROOF DRAIN PIPING SHOWN ON DRAWINGS.

PLUMBING CONTRACTOR TO FLUSH, CLEAN, AND SCOPE ALL BELOW SLAB WASTE AND DRAIN PIPING PRIOR TO BACKFILL. PROVIDE TAPE TO DETERMINE DRAINAGE AND INSULATION. ALL WATER PIPING INSTALLED ABOVE GRADE OUTSIDE OF THE BUILDING SHALL BE HEATED.
1. **GENERAL**

   - **MOTOR RATED SNAP SWITCH IN NEMA 1 ENCLOSURE**
   - **GENERAL "POWER" NOTES**
     - Raceway size are shown at homerun, such size shall be used for the entire circuit.
     - Heath Caldwell at (803) 754-0153 to coordinate.

2. **SURGE PROTECTION DEVICE**

   - Exception: final connection to devices, in outlet boxes, is not required to be larger than No. 12 AWG.

3. **MECHANICAL UTILITY METER & C/T CABINET**

   - Shall use No. 10 conductors and 3/4" C.

4. **ELECTRICAL PANELBOARD (SURFACE MOUNTED)**

   - Mounted devices with the architectural elevations, millwork shop drawings, and existing conditions. In the event of a change in electrical usage, minor adjustments in device location, i.e. 5'-0" in any direction shall be done at no additional cost to the owner.

5. **4 OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS**

6. **DUPLEX RECEPTACLE (@ 6" ABOVE COUNTER)**

7. **QUAD RECEPTACLE (WALL MOUNTED @ 18" AFF)**

8. **DISCONNECT SWITCH, (NON PROTECTED)**

9. **MOTOR CONN (AS NOTED)**

10. **REMOTE GFCI TEST SWITCH WITH INDICATOR LIGHT & DEAD FRONT PANEL. (NO RECEPTACLE)**

11. **OCCUPANCY SENSOR (CEILING MOUNTED)**

12. **OCCUPANCY SENSOR (WALL MOUNTED)**

13. **LIGHT SWITCH, DIMMER TYPE**

14. **FIRE ALARM APPLICATION DEVICE**

15. ** lieutenant**

16. **DEVICE ALIGNMENT DETAIL**

**ELECTRICAL DRAWING INDEX**

- **Sheet Name**
  - E-004
  - E-005
  - E-006
  - E-007
  - E-008
  - E-009
  - E-010

**ELECTRICAL SYMBOL LEGEND**

1. **MOTOR RATED SNAP SWITCH IN NEMA 1 ENCLOSURE**

2. **GENERAL "POWER" NOTES**

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- **Sheet Name**
  - E-004
  - E-005
  - E-006
  - E-007
  - E-008
  - E-009
  - E-010
GENERAL COMMUNICATIONS SYSTEM NOTES

1. LAYOUT A 4" CONDUIT FROM THE TELEPHONE BACKBOARD TO THE TELEPHONE SERVICE POINT AT THE PROPERTY LINE. SEE THE ELECTRICAL SITE PLAN FOR THE BUILDING LOCATION. COORDINATE THE LOCATION IN THE FIELD WITH THE UTILITY.

2. COMMUNICATION SYSTEM SHALL CONSIST OF BOXES, RACEWAYS, AND CABLE-TRAY.

3. COMMUNICATION OUTLET BOX SHALL BE 4" SQUARE, 2-1/2" DEEP, WITH SINGLE GANG RING.

4. PROVIDE PROTECTIVE BUSHING ON EACH END OF ALL PULL POINTS. ALL CABLE TRAY, RACEWAYS, BUSHING AND EQUIPMENT SHALL BE PROVIDED UNDER A SEPARATE CONTRACT WITH THE OWNER.

5. MINIMUM RACK SPACE FOR ALL COMMUNICATIONS SYSTEM OUTLETS IS 1".

6. COMMUNICATIONS BACKBOARD SHALL BE 3/4" THICK GRADE 'A' PLYWOOD PAINTED TO MATCH EXTERIOR WALL SURFACE. TURN CONDUIT 90° IN TO CEILING CAVITY AS REQUIRED. RACEWAYS SHALL BE PROVIDED WITH PULL STRINGS.

7. COMMUNICATIONS BACKBOARD SHALL BE 6" SQUARE, 2" DEEP, WITH SINGLE GANG RING. PROTECTIVE BUSHING.

8. COMMUNICATIONS BACKBOARD SHALL BE 4" SQUARE, 2-1/2" DEEP, WITH SINGLE GANG RING. PROTECTIVE BUSHING.

9. THERE SHALL BE NO MORE THAN 180-DEGREES OF BENDS BETWEEN PULL POINTS.

10. COMMUNICATIONS BACKBOARD SHALL BE 4" SQUARE, 2-1/2" DEEP, WITH SINGLE GANG RING. PROTECTIVE BUSHING.

11. COMMUNICATIONS BACKBOARD SHALL BE 4" SQUARE, 2-1/2" DEEP, WITH SINGLE GANG RING. PROTECTIVE BUSHING.

12. TWO CONDUITS FOR DISCONNECT TYPE: "F" DENOTES FUSIBLE TYPE, "NF" DENOTES NON-FUSIBLE TYPE, AND "MTR" DENOTES MOTOR RATED TOGGLE SWITCH WITH LOCK-OUT ACCESSORY.

13. COMMUNICATIONS SYSTEM SHALL CONSIST OF BOXES, RACEWAYS, AND CABLE-TRAY. BENDS BETWEEN PULL POINTS.

14. COMMUNICATIONS BACKBOARD SHALL BE 4" SQUARE, 2-1/2" DEEP, WITH SINGLE GANG RING. PROTECTIVE BUSHING.

15. COMMUNICATIONS BACKBOARD SHALL BE 4" SQUARE, 2-1/2" DEEP, WITH SINGLE GANG RING. PROTECTIVE BUSHING.
1. NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.

2. ALL INSTALLATIONS OF EXOTHERMIC WELDING CONNECTIONS AND PLATES SHALL BE BASED ON THE PORTIONS OF THE DIAGRAM.

3. THE GROUND ROOD CLUSTER FOR THE SERVICE GROUND SHALL CONSIST OF THREE (3) #4/0 COPPER CLAD STEEL GROUND RODS. THEY SHALL BE ARCHED IN A TRIANGULAR CONFIGURATION APPROXIMATELY 20'-0" APART AND WATERPROOFED IN CONFORMITY WITH THE CODE. THE CYLINDRICAL CONDUCTORS SHALL PROCEED TO THE SERVICE ENCLOSURE. PROCEED TO THE SERVICE ENCLOSURE.
GENERAL NOTES

1. COORDINATE ELECTRICAL SERVICE INSTALLATION WITH FAIRFIELD ELECTRIC COOPERATIVE. CONTACT HEATH CALDWELL AT (803) 754-0153.

2. SEE ELECTRICAL ONE-LINE DIAGRAM FOR MORE INFORMATION.

NOTES:

1. CONSIDERABLE EFFORT HAS BEEN MADE TO DETERMINE THE EXTENT OF UNDERGROUND UTILITIES. SOME LOCATIONS ARE ACTUAL FIELD MEASUREMENTS AND SOME ARE TAKEN FROM UTILITY RECORDS. THIS PLAN DOES NOT WARRANT THAT UTILITIES ARE SHOWN ACCURATELY NOR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE LOCATION OF UTILITIES PRIOR TO DEVELOPMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO NOTIFY 811 (ONE CALL) PRIOR TO DEVELOPMENT.

2. CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO PROVISIONS OF THE CONTRACTORS' CODES PERMITTED BY FAIRFIELD ELECTRIC CO-OP.

3. PROVIDED BY FAIRFIELD ELECTRIC CO-OP.

4. OVERHEAD PRIMARY CONDUCTORS PROVIDED BY FAIRFIELD ELECTRIC CO-OP.

5. TELECOMMUNICATIONS PEDESTAL. COORDINATE SERVICE WITH TRUVISTA TELECOMMUNICATIONS.

6. 4" C. WITH PULLSTRING FOR TELECOMMUNICATIONS.

CONTRACTOR:

RIVER ROAD FIRE STATION
10716 River Road
Ridgeway, SC 29130

ARCHITECT

110 Midlands Court
West Columbia, SC 29169
803-822-0333

CONCRETE GRADE OR 3" WIDE DETECTABLE UNDERGROUND WARNING BACKFILL GRAVEL CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO PROVISIONS OF THE CONTRACTORS' CODES PERMITTED BY FAIRFIELD ELECTRIC CO-OP.

ELECTRICAL SITE PLAN

Drawing Name: ELECTRICAL SITE PLAN
Drawing Number: 1
Date: 07/05/2022
Scale: 1/16" = 1'-0"
LIGHT FIXTURE PLAN KEY

SHADING INDICATES EMERGENCY FIXTURE SUPPLIED WITH EMERGENCY BATTERY PACK

NOTE: ALL EMERGENCY FIXTURES INDICATED ON PLAN CONTAIN EMERGENCY BATTERY PACKS. ALL EMERGENCY FIXTURES REQUIRE AN EXTRA CONSTANT POWER CONDUCTOR TO BE CONNECTED TO THE EMERGENCY BATTERY FOR CHARGING. THE CONSTANT POWER CONDUCTOR MUST NOT BE CONTROLLED BY ANY LIGHTING SYSTEM OR HAVE POWER INTERRUPTED AT ANY TIME.

WHERE UTILITY POWER SHOULD FAIL, FIXTURES SHALL REMAIN OPERATIONAL FOR A MINIMUM OF 90 MINUTES.
1. Coordinate location of all bay door push button locations with owner prior to rough-in.

2. Provide metallic "WB-480-60-EXP" enclosure for all receptacles designed to be weatherproof "WP".

3. Provide unistrut or angle as required to mount cord reel to structure at approximately 16' AFF.

4. Provide unistrut or angle as required to mount "MTR" type approximately 16' and in accordance with motorized door operator manufacturer's instructions.

5. Provide unistrut or angle as required to mount "PUH" type heaters to structure at approximately 16' in accordance with mechanical contractor requirements.

6. Connect exhaust fan to lighting branch circuit and switch to provide metallic "while-in-use" enclosure for all receptacles indicated to be weatherproof "WP".

7. Provide panel board switch interconnected with SWPF-1. See mechanical drawings for more detailed view.
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<td></td>
</tr>
<tr>
<td>90 AWG</td>
<td>15</td>
<td>1-#12, 1-#12, 1-#12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 AWG</td>
<td>16</td>
<td>2-#10, 1-#10, 1-#10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1. COORDINATE BREAKER SIZE AND CONDUCTOR SIZE WITH SPD MANUFACTURER
2. GFEP BREAKER

**TOTAL PER PHASE AMPACITY:** 140
**CONNECTED AMPACITY:** 39
SECTION 2600 - LOW-VOLTAGE ELECTRICAL POWER CONDUITS AND CABLES

PART GENERAL

4.1 RIVER FIRE STATION

4.2 ELETRICAL SPECIFICATIONS

4.3 DRAWING AND CONSTRUCTION

4.4 MATERIALS

4.5 INSTALLATION

4.6 REVISIONS

END OF SECTION 2600:

PAGE 161

RIVER ROAD FIRE STATION

10716 River Road
Ridgeway, SC 29130

ELECTRICAL SPECIFICATIONS

070020

RIVER ROAD FIRE STATION

10716 River Road
Ridgeway, SC 29130

ELECTRICAL SPECIFICATIONS

070020

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10716 River Road
Ridgeway, SC 29130

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070020

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070020

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10716 River Road
Ridgeway, SC 29130

ELECTRICAL SPECIFICATIONS

070020

RIVER ROAD FIRE STATION

10716 River Road
Ridgeway, SC 29130
PART 45 - INSTALLATION

45.1 INSTALLATION

A. Internal wiring in each branch.
B. Bond and ground branch circuit neutral accessories and neutral cable in accordance with Section 450.24B.

45.2 FIELD QUALITY CONTROL

A. Operate each fixture after installation and connection. Inspect for improper connections and operation.

45.3 CLEANING

A. Clean photocell control switches as recommended by manufacturer.
B. Clean fixtures and check-up damage.

45.4 PROBLEMS OF INTEGRATED WORK

A. Replace fixtures having failed lamps at time of completion.

END OF SECTION 20500