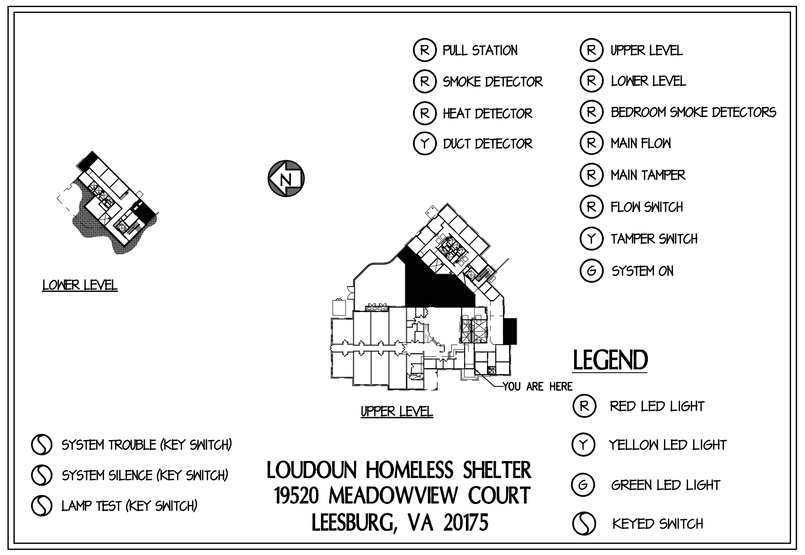
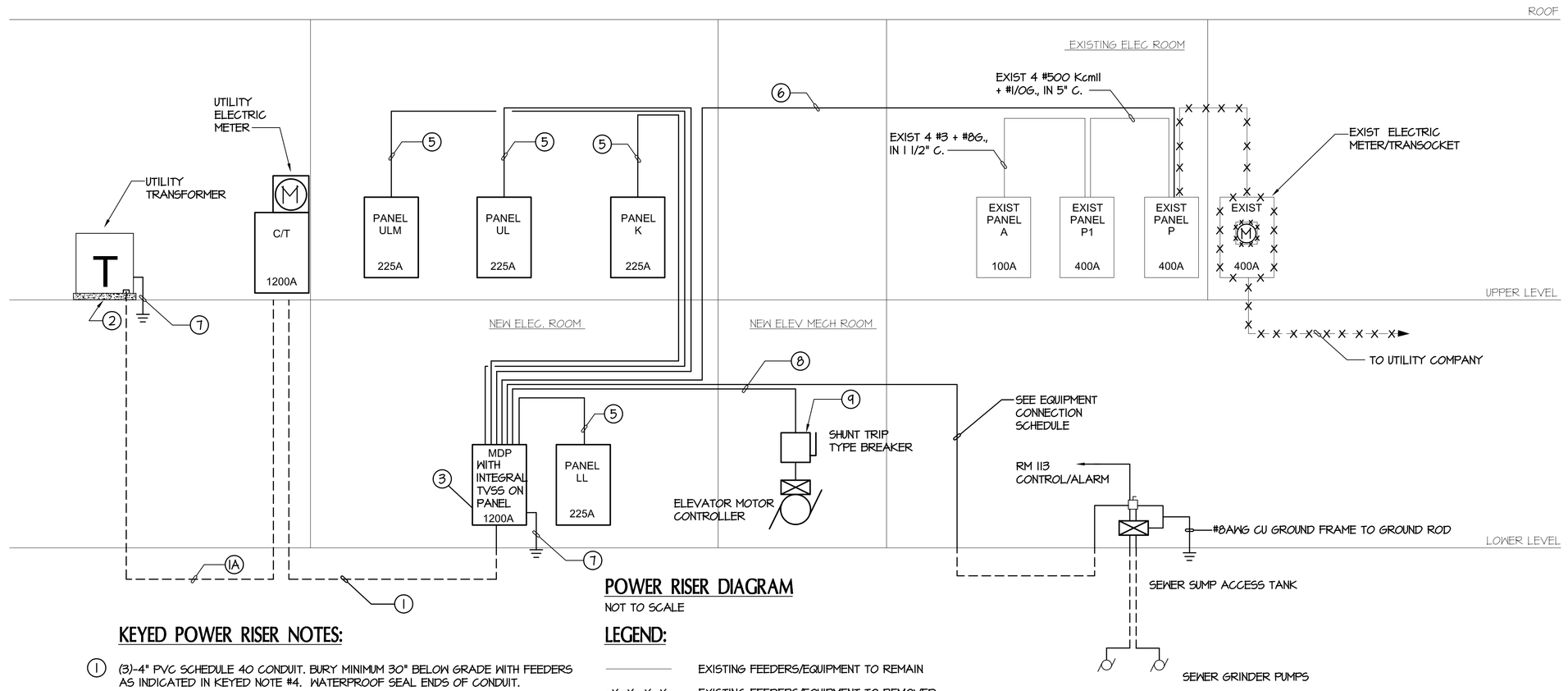


FIRE ALARM GRAPHIC ANNUNCIATOR PANEL

NOT TO SCALE

NOTE: 1. VERIFY ORIENTATION OF THE GRAPHICS WITH FIRE MARSHALL PRIOR TO ORDERING.

2. SHOW EXACT BUILDING ADDRESS ON FAAP



POWER RISER DIAGRAM

NOT TO SCALE

KEYED POWER RISER NOTES:

1. (3)-4" PVC SCHEDULE 40 CONDUIT. BURY MINIMUM 30" BELOW GRADE WITH FEEDERS AS INDICATED IN KEYED NOTE #4. WATERPROOF SEAL ENDS OF CONDUIT.

1A. (4)-4" PVC SCHEDULE 40 CONDUIT. BURY MINIMUM 30" BELOW GRADE WITH FEEDERS AS INDICATED IN KEYED NOTE #4. (1) 4" SPARE W/ PULL WIRE IN DUCT BANK. WATERPROOF SEAL ENDS.

2. PROVIDE 6" HIGH CONCRETE HOUSE KEEPING PAD. FINAL SIZE AND LOCATION OF PAD TO BE PROVIDED BY THE CONTRACTOR TO MEET NOVEC SPECIFICATIONS.

3. 1200A, 250V, 3 POLE + SOLID NEUTRAL U.L. LISTED SERVICE ENTRANCE SWITCH FUSED AT 1200A.

4. 3 SETS OF (4 #600KCMIL + 1#3/0G., IN 4"C.).

5. 4 #4/0 + #4G., IN 2 1/2"C.

6. 4 #600KCMIL + 1#1/0G., IN 5"C.

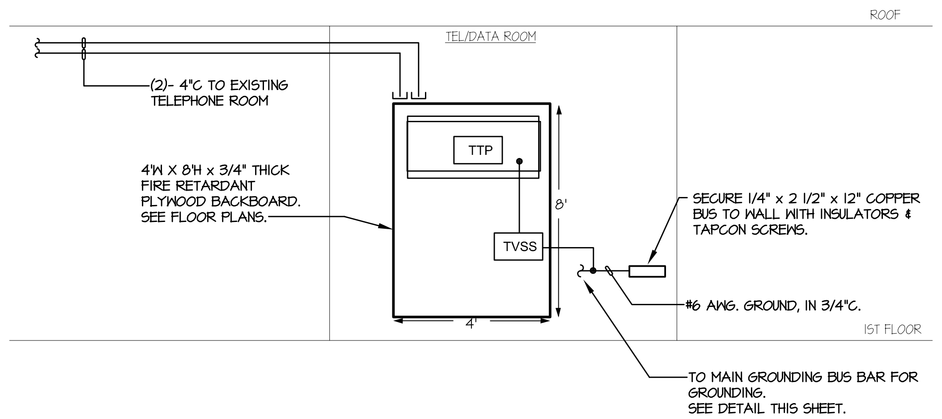
7. SEE GROUNDING SCHEMATIC DIAGRAM ON THIS SHEET.

8. 3 #2/0 + #6G., IN 1 1/2"C.

9. 200A, 250V, 3 POLE HEAVY DUTY FUSED DISCONNECT SWITCH FUSED AT 175A.

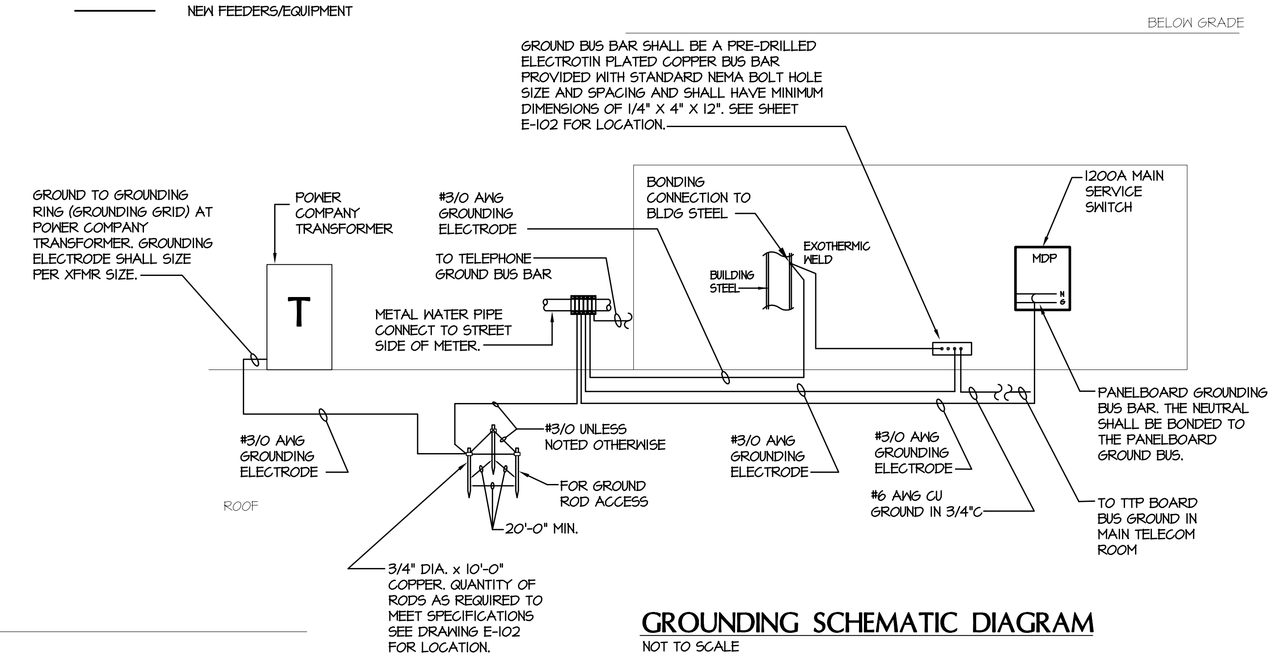
LEGEND:

- EXISTING FEEDERS/EQUIPMENT TO REMAIN
- EXISTING FEEDERS/EQUIPMENT TO REMOVED
- NEW FEEDERS/EQUIPMENT



TELE/DATA PROVISIONS SCHEMATIC DIAGRAM

NOT TO SCALE



GROUNDING SCHEMATIC DIAGRAM

NOT TO SCALE

GROUNDING SYSTEM NOTES:

1. THE GROUNDING ELECTRODES SHALL BE BONDED TO THE GROUNDING RODS BY EXOTHERMIC WELDING. ELECTRODES SHALL BE CONNECTED TO THE WATER SERVICE PIPE BY LISTED CLAMPS AND ALL OTHER GROUNDING CONNECTIONS SHALL BE BY LISTED PRESSURE CONNECTORS.

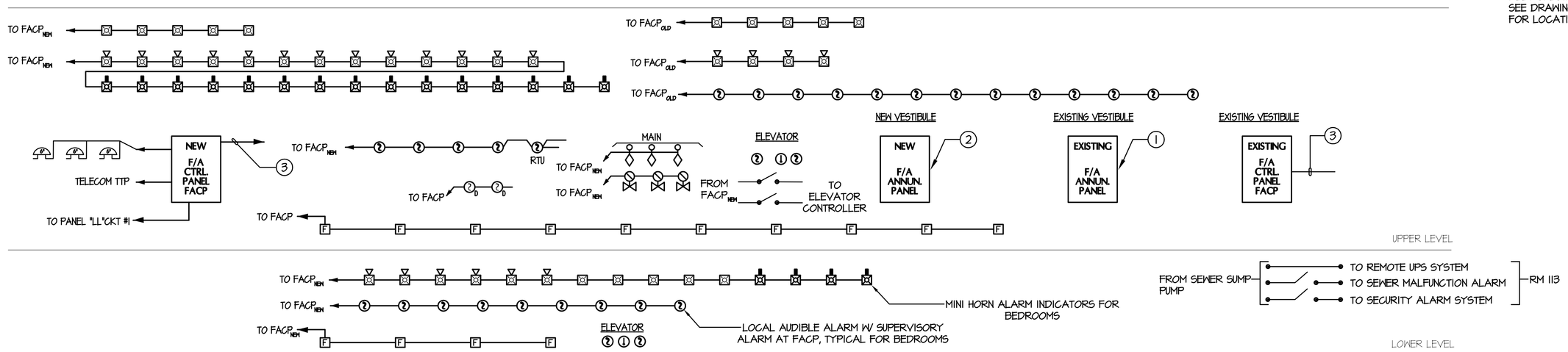
2. ALL GROUNDING CONDUCTORS OUTSIDE OF AN ELECTRICAL EQUIPMENT SHALL BE PROTECTED BY PROVIDING A RACEWAY.

3. CONDUITS ATTACHED TO ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE SECURELY BONDED TO THOSE ENCLOSURES WITH GROUND FITTINGS.

4. ALL CABLE CONNECTIONS TO BE MADE BY A 12-TON COMPRESSION TOOL OR EXOTHERMIC WELDING, EXCEPT TO GROUND LUGS ON BUS BARS AND BLOCKS.

5. CONNECT ALL GROUND ELECTRODES TOGETHER.

6. PROVIDE ALL REQUIRED ACCESSORIES PER NFPA 77 2000 EDITION APPENDIX C (RECOMMENDED MEANS FOR PROVIDING BONDING AND GROUNDING) SUCH AS: GROUND CLAMPS WITH SHARP HARDENED STAINLESS STEEL CONTACT POINT, INDENTED CONNECTION, LOCKING SCREW, PIPE CLAMPS AND CONNECTORS.



FIRE ALARM RISER DIAGRAM

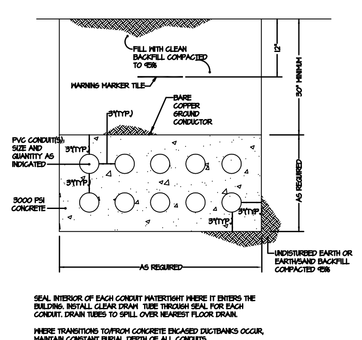
NOT TO SCALE

FIRE ALARM NOTES:

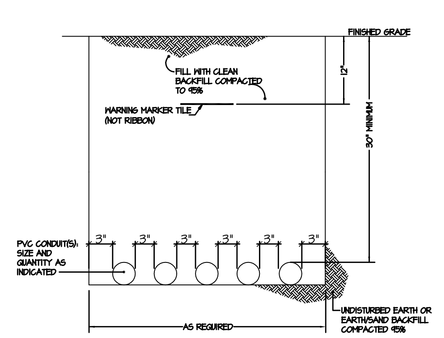
1. REFER TO FIRE ALARM FLOOR PLANS FOR QUANTITY AND LOCATION OF THE SYSTEM DEVICES IN EACH FLOOR.
2. VERIFY QUANTITIES OF THE F.A. DEVICES WITH THE FLOOR PLANS PRIOR TO ORDERING.
3. CONTRACTOR SHALL SUBMIT 3 SETS OF FIRE ALARM SYSTEM SHOP DRAWINGS TO PERMIT APPLICATION CENTER / FIRE MARSHALL FOR THEIR REVIEW AND CONCURRENCE.
4. FINAL LOCATIONS FOR SMOKE DAMPER DUCT DETECTORS AND THEIR OPERATION SHALL BE COORDINATED WITH DIVISION 15. IF NECESSARY, THE DUCTS SHALL BE ENLARGED TO ACCOMMODATE THE DUCT DETECTORS.
5. COORDINATE WITH THE SPRINKLER CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF FLOW AND TAMPER SWITCHES.
6. INITIATION OF ANY OF THE DUCT SMOKE DETECTORS SHALL ACTIVATE A TROUBLE SIGNAL AND SHUT-OFF THE EQUIPMENT UNIT. THIS CONDITION SHALL BE COORDINATED WITH THE FIRE MARSHALL.
7. THE SCOPE OF THIS PROJECT INCLUDES ANY AND ALL WORK REQUIRED TO TIE THE EXISTING FIRE ALARM SYSTEM INTO THE NEW SYSTEM. EXISTING FIRE ALARM SYSTEM IS MAINTAINED BY AEGIS 800-661-6768.

KEYED NOTES:

1. REMOVE EXISTING FIRE ALARM GRAPHIC ANNUNCIATOR PANEL. INTERCEPT AND EXTEND EXISTING ACTIVE CIRCUITS TO NEW FIRE ALARM GRAPHIC ANNUNCIATOR.
2. NEW PANEL TO REFLECT BUILDING OUTLINE OF EXISTING AND EXPANSION. SEE ANNUNCIATOR PANEL DETAIL THIS SHEET.
3. 1" CONDUIT FOR COMMUNICATION CABLE TO EXISTING MAIN FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL PROVIDE NETWORK INTERFACE MODULE AND EXPANSION POWER SUPPLY IN THE EXISTING MAIN FIRE ALARM CONTROL PANEL TO ACCOMMODATE NEW FIRE ALARM CONTROL PANEL CONNECTION. THE EXISTING FIRE ALARM CONTROL PANEL IS A SIMPLEX MODEL 4002.



A TYPICAL DUCT BANK SECTION
SCALE: NTS
CONCRETE ENCASED



B TYPICAL DIRECT BURIED SECTION
SCALE: NTS
DIRECT BURIED

GENERAL PLAN NOTES:

1. SEE E001 AND ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. CONTRACTOR SHALL COORDINATE ROUTING OF UTILITY PRIMARY AND SECONDARY DUCTBANKS OTHER TRADES. MINIMIZE NUMBER OF PENETRATIONS THROUGH STRUCTURAL MEMBERS WHERE POSSIBLE. COORDINATE LOCATION AND OTHER REQUIREMENTS OF PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH STRUCTURAL ENGINEER PRIOR TO START OF WORK. WHERE ELECTRICAL DUCTBANKS CROSS STORM WATER, WATER, SEWER, ETC. LINES, ELECTRICAL DUCTBANK SHALL BE RUN OVER THESE OTHER UTILITIES. REFER TO UTILITY REQUIREMENTS FOR ADDITIONAL INFORMATION. ALL UTILITY INFRASTRUCTURE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, DUCTBANKS AND TRANSFORMER PAD, SHALL CONFORM WITH ALL UTILITY REQUIREMENTS.
3. COORDINATE ALL SITE WORK WITH CIVIL AND OTHER TRADES PRIOR TO START OF WORK.
4. COORDINATE TELEPHONE AND CABLE SERVICE WITH RESPECTIVE UTILITIES . VERIFY ROUTING, REQUIRED CONDUIT SIZES, ENCASEMENT REQUIREMENTS, ETC. PRIOR TO START OF WORK.

DUCTBANK NOTES:

1. SEE E001 AND ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL DIMENSIONS SHOWN ARE MINIMUM REQUIRED.
3. POWER UTILITY PRIMARY AND SECONDARY DUCTBANKS SHALL CONFORM WITH ALL UTILITY REQUIREMENTS.

No.	Description	Date	App.
	BID SET	8/26/08	
1	ADDENDUM #1	9/11/08	
3	ADDENDUM #2	9/16/08	
2	ADDENDUM #4	9/22/08	

Drawn: TP/PP
Checked: PK
Approved: PK/DK
Issued: 8/26/2008

LOUDOUN COUNTY EMERGENCY HOMELESS SHELTER

Leesburg, Virginia

COUNTY OF LOUDOUN

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Sheet Contents: RISER & SCHEMATIC DIAGRAMS

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Scale: AS NOTED

Dwg. No. E-201

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Kevin C. 11/12/08
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