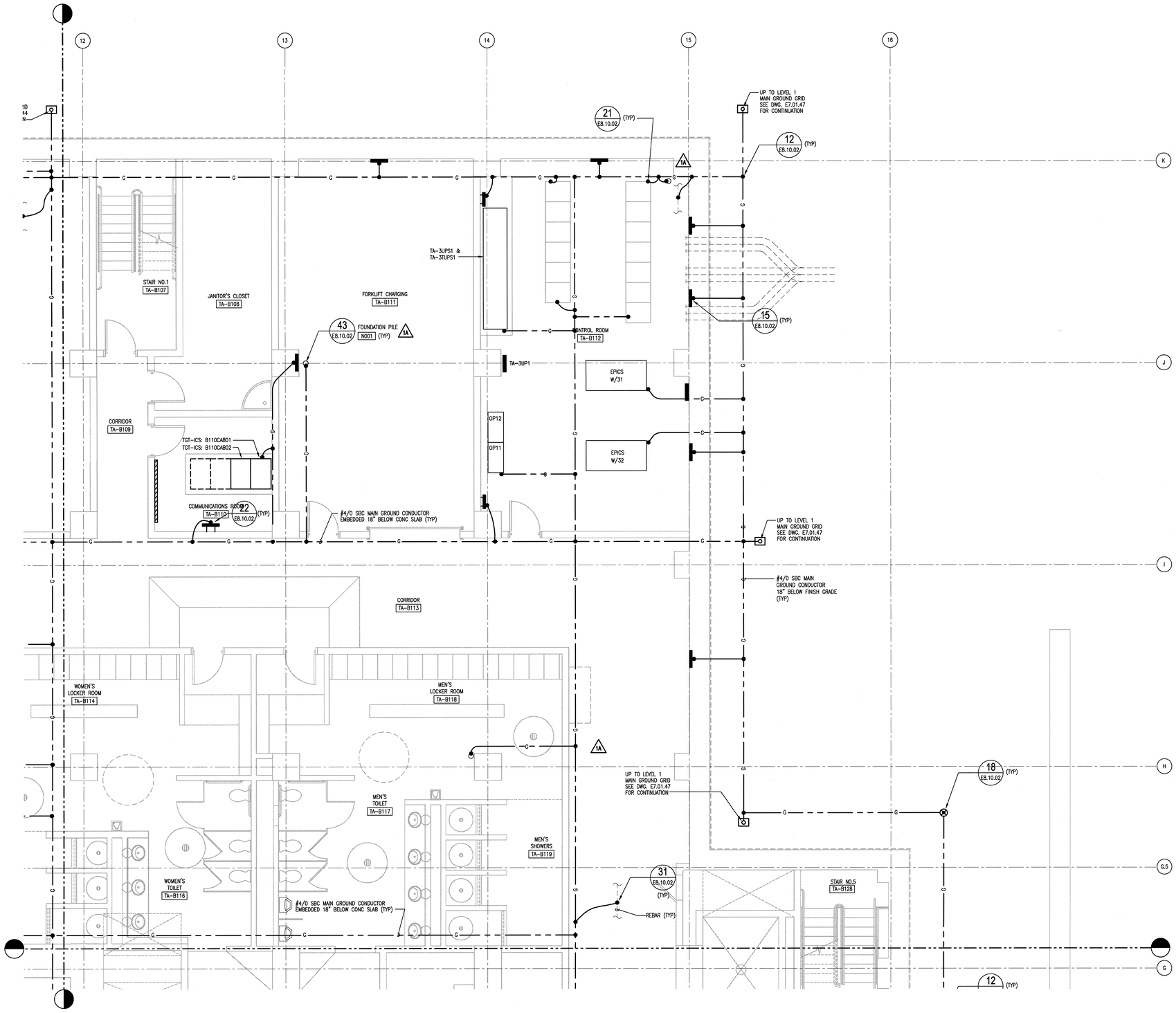


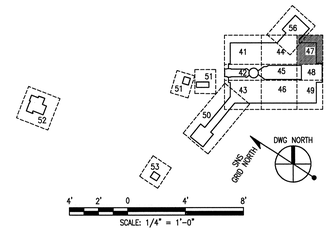

## GENERAL NOTES:

1. NOT USED.
2. ALL GROUNDING CONDUCTORS SHALL BE #4/0 STRANDED BARE COPPER (SBC), UNLESS NOTED OTHERWISE.
3. ALL GROUND CONNECTIONS SHALL BE EXOTHERMIC.
4. STUB-UP UNDERGROUND CONDUIT W/ GROUNDING BUSHING.
5. INSTALL GROUND BAR ON COLUMNS AS SHOWN. GROUND STEEL COLUMN TO THE GROUND BAR, IF INSTALLED ON THE COLUMN, UNLESS SHOWN OTHERWISE. GROUND ALTERNATE STEEL COLUMN AND REBAR DIRECTLY TO GROUND GRID CONDUCTORS.
6. LIGHTNING PROTECTION SYSTEM DOWN CONDUCTORS TO BE ATTACHED TO STRUCTURAL STEEL OR CONCRETE COLUMNS WITH UL LISTED CONNECTORS.
7. IN EACH AREA CONTAINING ELECTRICAL EQUIPMENT, ACCESS TO THE GROUNDING SYSTEM MUST BE AVAILABLE EITHER FROM STRUCTURAL STEEL OR THE BUILDING GROUND GRID.
8. ALL GROUND CONDUCTORS SHOWN WITHIN THE BUILDING ARE EMBEDDED IN THE FLOOR CONCRETE.

## SHEET KEYNOTES:

N001 THE LOCATION OF THE PILE TO BE GROUNDED AS SHOWN, IS APPROXIMATE. REFER TO STRUCTURAL PLAN S1.FP.30 FOR NEAREST PILE. REFER TO DWG S4.20.37 FOR PILE DETAIL.

1A

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U.S. GOVERNMENT contract DE-AC05-00OR22725
UT-BATTELLE, LLC • Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

TARGET BUILDING
ELECTRICAL GROUNDING PLAN
LEVEL B1, SECTOR 47

| 1 | 48 | 49 | 50 | PLANT | BLDG | FL | SH. | OF | TYPE | CLASS |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | E | X | X | 8 | 8700 | | 1 | 1 | P | U |

| 51 | 52 | 53 | WBS | | REV |
|---|---|---|---|---|---|
| NC | NA | | 1.8.3.7 | E7.B1.47 | 2 |

| | | | |
|---|---|---|---|
| DSN | H GROVER | 4/13/01 | |
| DRW | L. MAKOVSKY | 4/13/01 | |
| CHK | V.STEFFEN | 4/13/01 | |
| DEPT | | | |
| PE | C.L. GARREN | 4/18/01 | |
| PJ | R.A. DEAN | 4/18/01 | |
| REQ | | | |
| UTB | J.R. LAWSON | 4/19/01 | |

RPE
VICTOR C. STEFFEN
REGISTERED PROFESSIONAL ENGINEER
No. 00106001
STATE OF TENNESSEE
2 11-13-01
REV. DATE
DRAWING APPROVALS

| REV | CHANGE TYPE | CHANGE CONTROL SYSTEM | CHANGE REQUEST NUMBER | DESCRIPTION | DSN | CHK | DEPT |
|---|---|---|---|---|---|---|---|
| 2 | | | | CERTIFIED FOR CONSTRUCTION – 10/26/01 | HG | VGS | |
| 1 | A | 3 | 1–13 | DCN T-001 THRU T013 – 9/21/01 | HG | VGS | |
| 0 | | | | SUBSTRUCTURES CERTIFIED FOR CONSTRUCTION – 4/18/01 | HG | VGS | |

REVISION OR ISSUE PURPOSE

| DATE | PE | DATE | PJ | DATE | REQ | DATE | UTB | DATE | RPE | RPE NO | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PJN | 11/13/01 | RAD | 11/14/01 | | | JRL | 11/16/01 | VGS | 106009 | 10/26/01 |
| | CLG | 10/2/01 | RAD | 10/2/01 | | | JRL | 10/2/01 | VGS | 00106009 | 9/21/01 |
| | CLG | 4/18/01 | RAD | 4/18/01 | | | JRL | 4/19/01 | VGS | 00106009 | 4/13/01 |

REVISION APPROVALS

| ST | CV | EC | EE | EM | IE | M | PD | SE | AR |
|---|---|---|---|---|---|---|---|---|---|
| REW | – | WRS | AK | WRS | BWJ | – | MP | – | ED |
| SC | – | WRS | RL | WRS | BWJ | – | MP | – | WAS |
| SC | – | WRS | RL | WRS | BWJ | – | MP | – | WAS |

SQUAD CHECK

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 3
ENGINEERING PROCEDURE SNS-ENG-0001

Date: 11/13/2001 Time: 11:29:18
Username: MAKOVSKY
File: S:\ECP\PROJECTS\3000\700_CADD\CADD_SA\740_FLOT\E7-01-47.DWG

AutoCAD