

SECTION 8. SUBDIVISION & PLAT REQUIREMENTS

8.1 Installing Electrical Facilities Within a Subdivision or Plat

The following information outlines Franklin PUD's general requirements for installing underground electrical facilities within a subdivision or plat. It also summarizes the practices and policies incorporated in Franklin PUD's Rules and Regulations for Underground Line Extensions. When planning a subdivision, please contact Franklin PUD's Engineering Department for additional information and requirements.

Subdivisions and plots must be approved and recorded by the city or county, and Franklin PUD's name must be included on all utility easements.

Franklin PUD's Engineering Department will determine the availability, location, and condition of services, easements, line extensions, and applicable fees and contracts.

8.2 Owner/Developer Responsibilities

At the minimum, the owner (customer) and developer are responsible for:

- All trench, conduit, bedding, and backfill.
- Vaults and vault installation for primary and secondary conductors.
- Grade stakes for vaults.
- Easements for primary lines and transformer(s).

8.3 Beginning Construction

After necessary inspections and fees have been paid by the customer, FPUD crews will be scheduled on a first-come, first-served basis. Every effort will be made to expedite the customer request. However, several factors influence this: weather, site preparation, and the availability of workforce and materials. The sooner information is provided by the customer, the sooner the material can be ordered.

8.4 Conduit

The underground conduit must be gray Polyvinyl Chloride (PVC) Schedule 40, conform to NEMA TC2 Specifications, and be permanently marked at regular intervals with the manufacturer's name or symbol, size, "SCH 40" and "PVC." The conduit size will be determined by FPUD (usually 3", 4", or 6").

8.5 Couplings and Fittings

Couplings and fittings must be PVC Schedule 40, factory-made, and conform to the exact specifications of the conduit. Special sweeps may be required at the discretion of Franklin PUD Engineer. Sweeps must have a minimum 36" centerline radius. **Heat-bent angles are not allowed.**

8.6 Installation of the Conduit System

Conduit should run in a straight line. As specified above, standard bends, sweeps, or offsets may be used as required and approved. Install couplings, connectors, and fittings to provide a rigid mechanical assembly with conduit cut square, reamed, and without burrs. Cement conduit joints as recommended by the manufacturer.

- **The conduit must be sealed with a factory-manufactured conduit plug.**

8.7 Conduit Bedding and Encasement

The minimum depth from the finished grade to the bottom of the trench for primary cable and for road crossings is forty-eight (48) inches and thirty-six (36) inches to the bottom of the trench for secondary cable. Sand or clean soil may be used for the encasement of the conduit. Street crossings for secondary cables shall be at forty-eight (48) inches.

- **Crushed stone over one (1) inch or other similar aggregate with sharp points is NOT acceptable.**

8.8 Inspections

After installation of the conduit call FPUD Engineering for an inspection before proceeding.

Please obtain FPUD approval before backfilling any trench to avoid exposure of all or part of the conduit run for inspection before cable installation. Any conduit failures, separation, etc., shall be the responsibility of the owner/developer to correct.

8.9 Backfill

Excavation material may be used for backfilling, provided it is free from vegetation, trash, rock, or frozen particles. Backfill should be placed uniformly in layers, and each layer should be thoroughly compacted.

8.10 Vaults and Covers

The concrete primary junction vaults, transformer vaults, and covers shall meet Franklin PUD's specifications. FPUD Engineering must approve any equivalent products before installation.

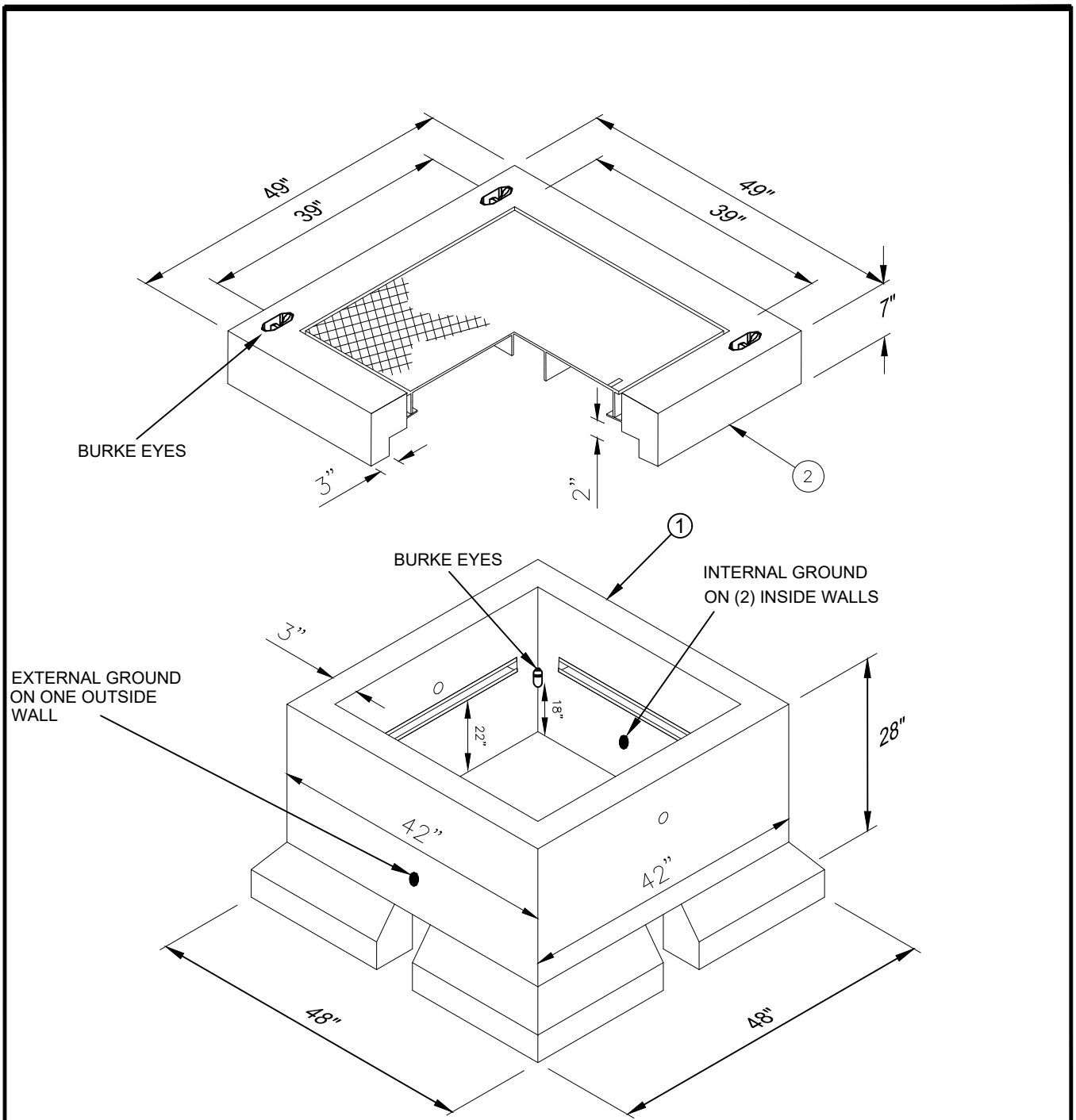
Knockouts should be made from the inside of the vault. Completely remove the center knockout in the bottom of the vault before installation to allow the vault to drain. Vault penetrations shall be grouted inside and outside according to FPUD standards. All vaults shall be placed on a 6" base of compacted crushed rock.

Installation for areas not graded:

The top of concrete junction vaults (not including the cover) shall be installed at the final grade level so that, when the 6" lid is in place, the top of the lid will be 6" above the final grade of the surrounding surface.

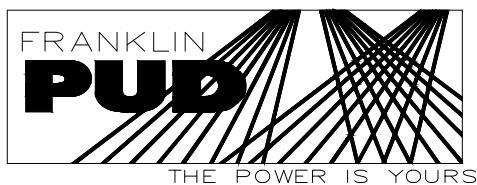
Typical installation along the roadway, sidewalks, parking area, and other graded areas:

The top of the vault lid shall match the finish grade. The customer is responsible for any discrepancies with any permitted approving agency.



NOTES:
SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES.

V.02.01.00.DGN



VAULT, SINGLE-PHASE PRIMARY JUNCTION

DWN.

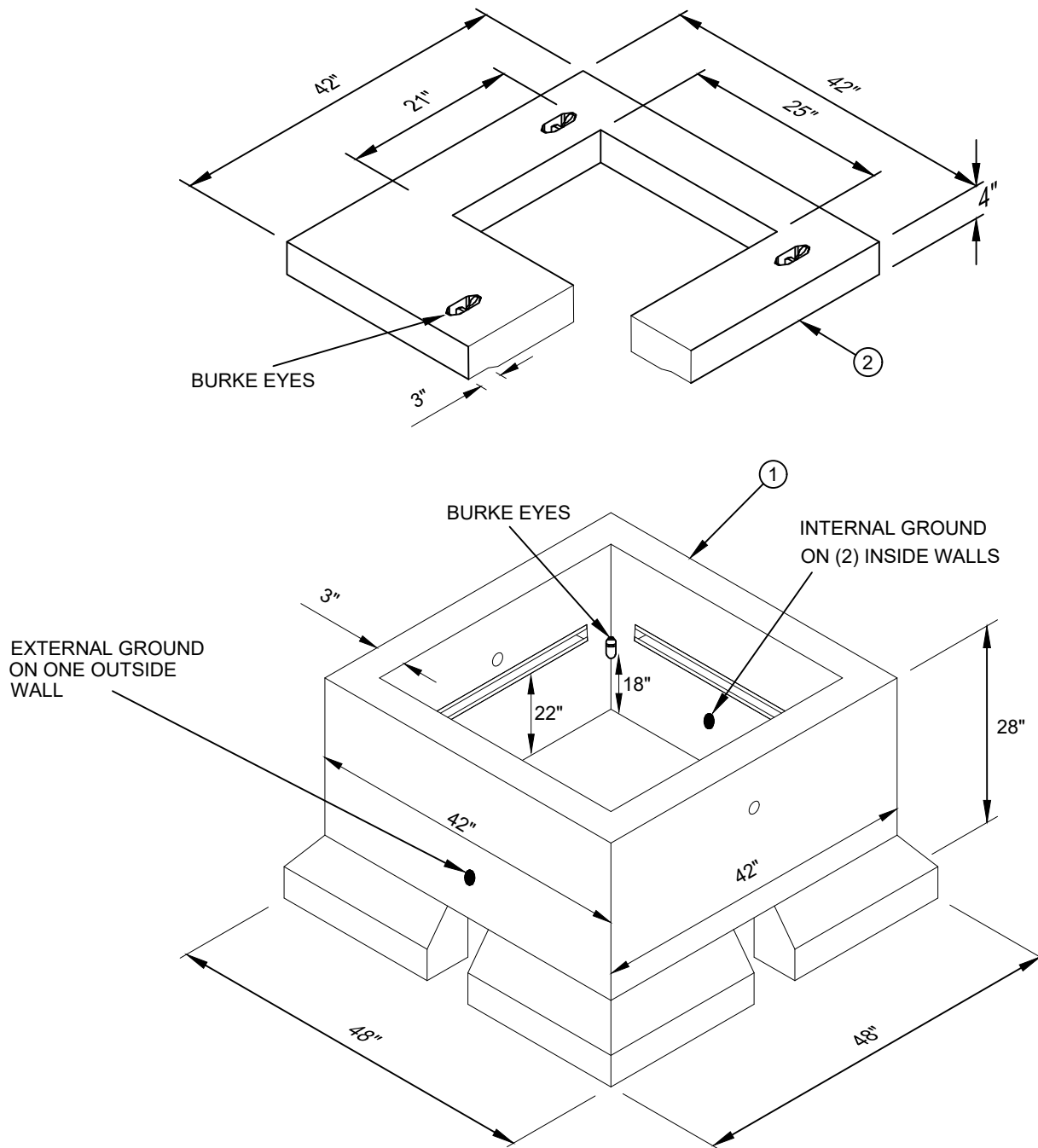
M. Nuñez
APP. ...

DATE: 7/19/18

UPDATED: 03/13/23

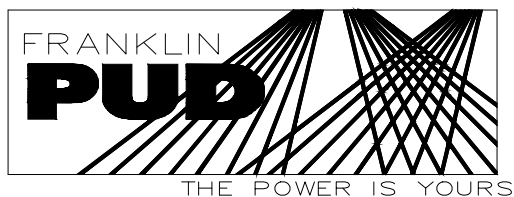
DWG. NO.

V.02.01.00



NOTES:

SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES.



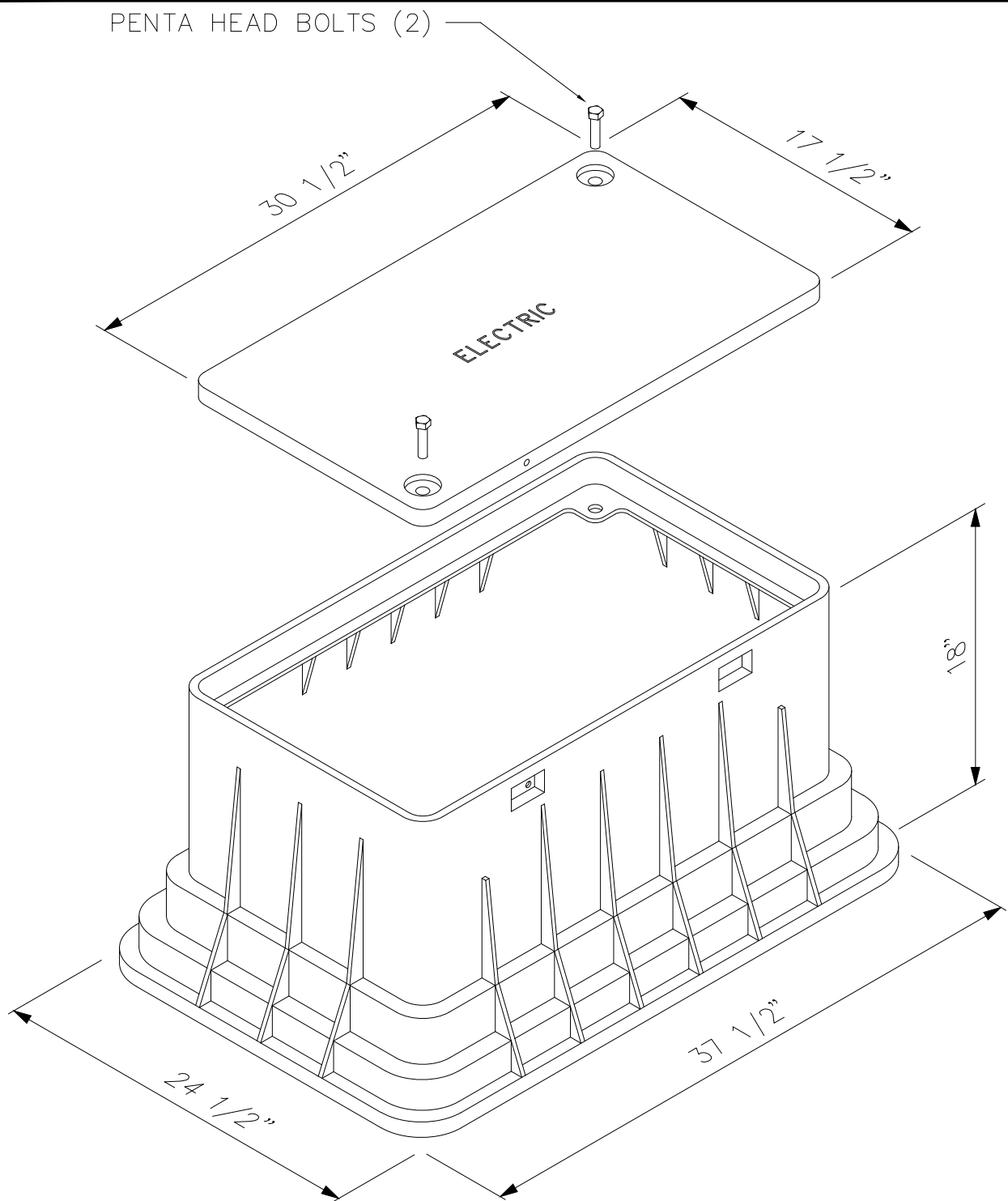
**VAULT, TRANSFORMER
SINGLE-PHASE PAD-MOUNT**

DWN.
M. Nuñez
APP.

DATE: 5/08
UPDATED: 3/23

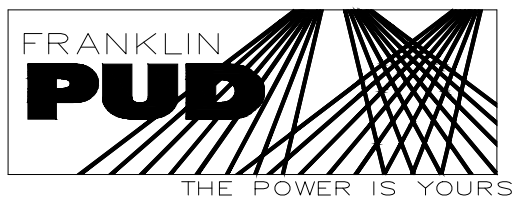
DWG. NO.

V.02.03.00



1. FOR USE IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC
2. SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES

V.03.01.00.DGN



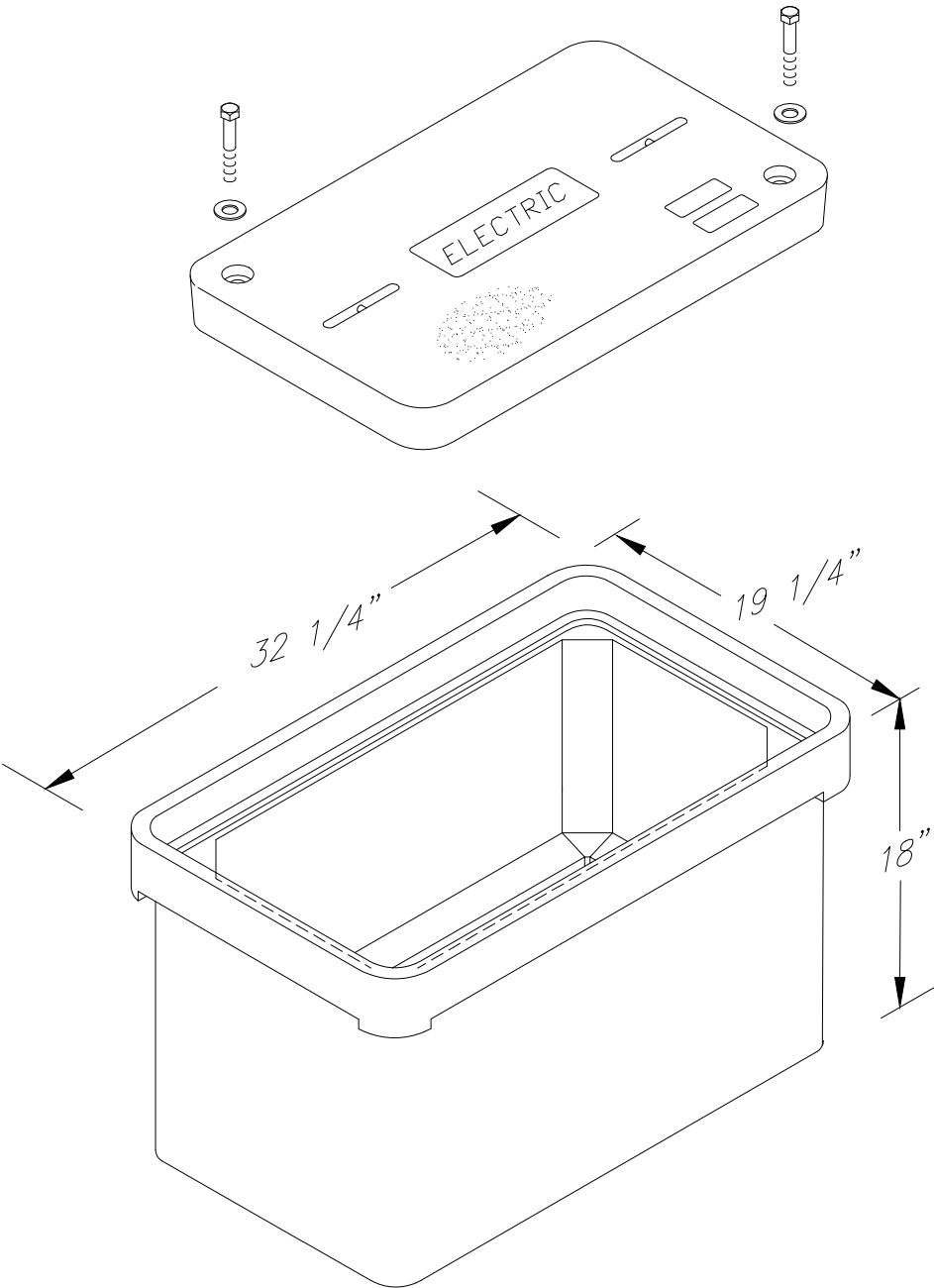
PLASTIC SECONDARY JUNCTION VAULT

DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

V.03.01.00



NOTES:

1. SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES
2. LIGHT TRAFFIC RATED

V.03.02.00.DGN



**TRAFFIC RATED SECONDARY JUNCTION
VAULT WITH COVER**

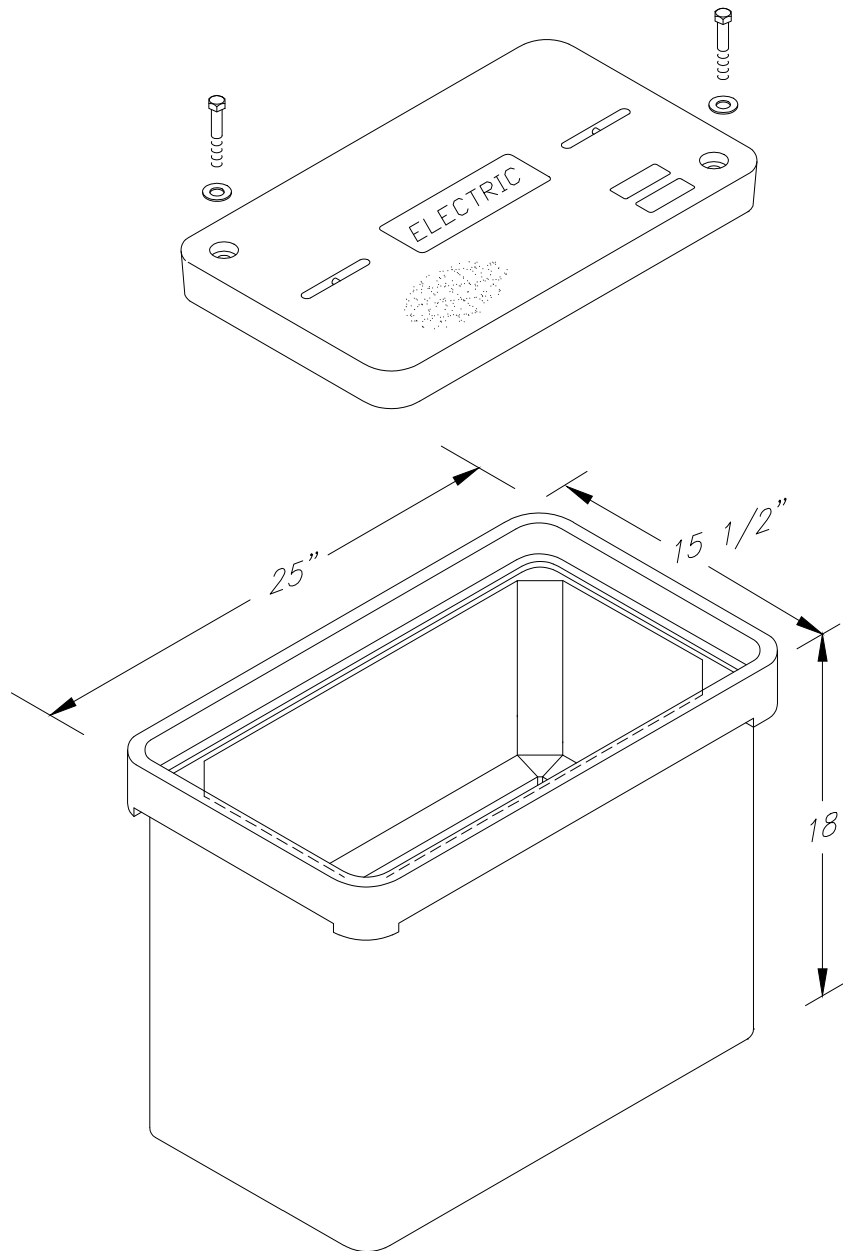
DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

V.03.02.00

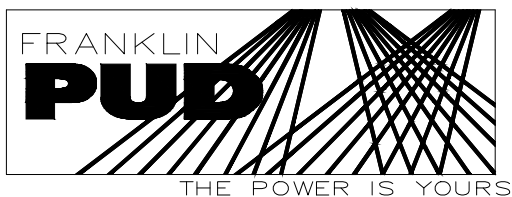
V.03.03.00



NOTES:

1. SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES
2. LIGHT TRAFFIC RATED

V.03.03.00.DGN



**STREET LIGHT JUNCTION BOX
WITH COVER**

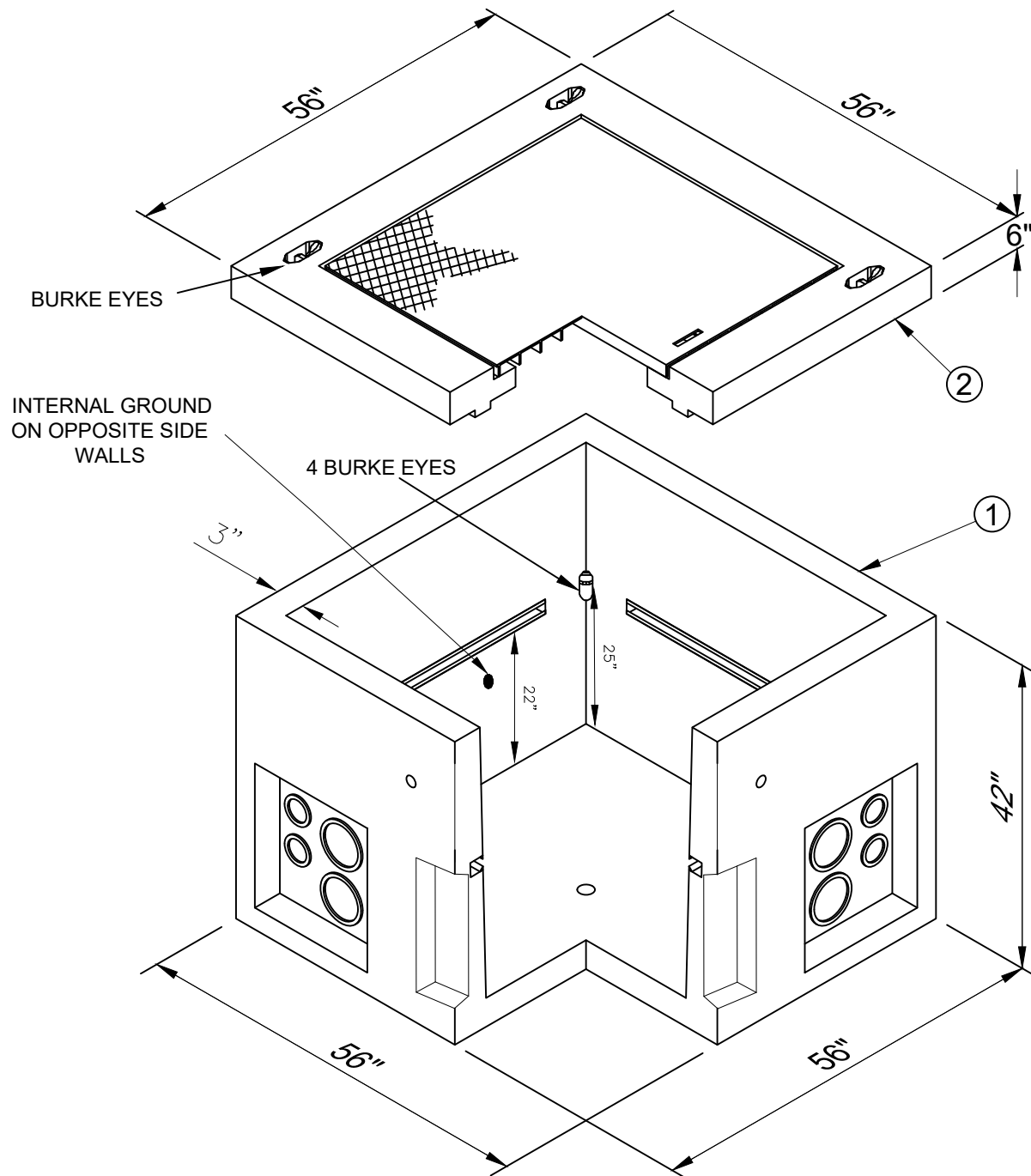
DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

V.03.03.00

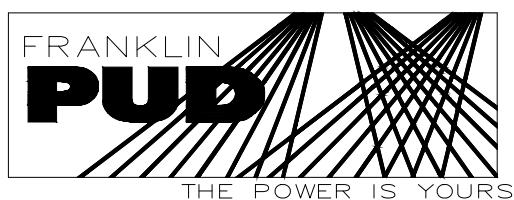
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NOTES:

1. SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES

V.04.01.00.DGN



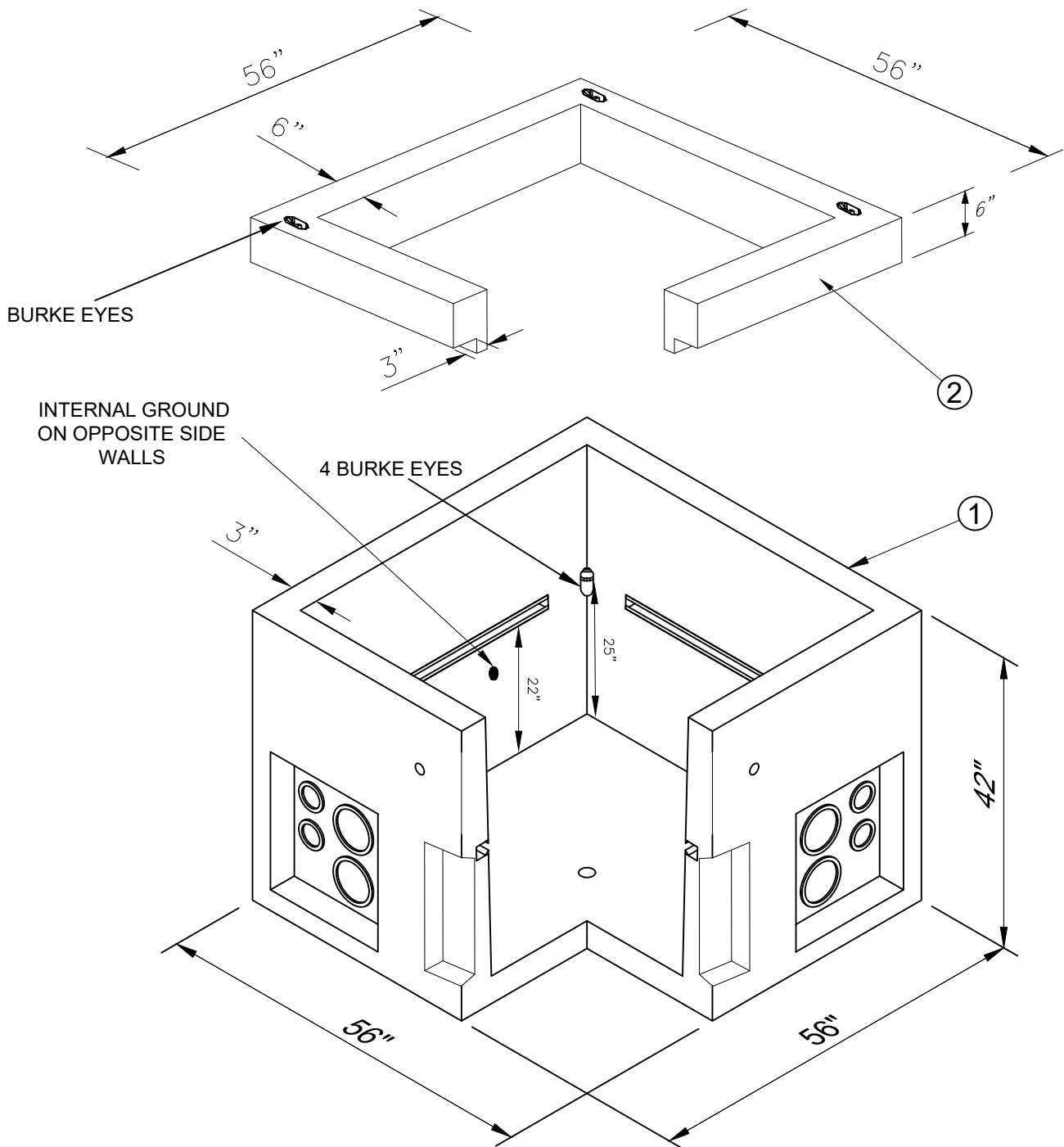
PRIMARY JUNCTION VAULT WITH STEEL LID COVER

DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

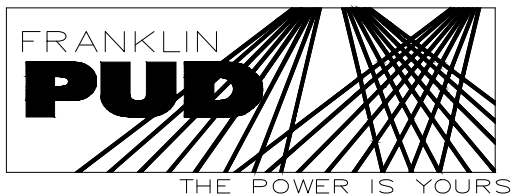
V.04.01.00



NOTES:

1. SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES

V.04.02.00.DGN



SECONDARY TERM CABINET VAULT WITH CONCRETE EXTENSION RING

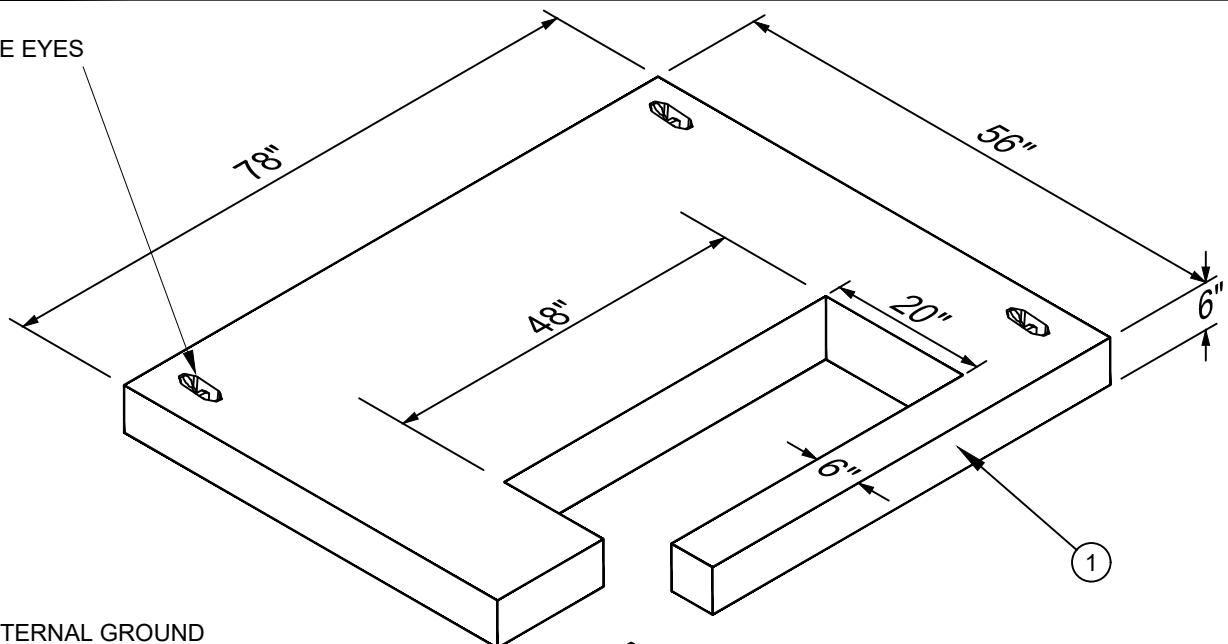
DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

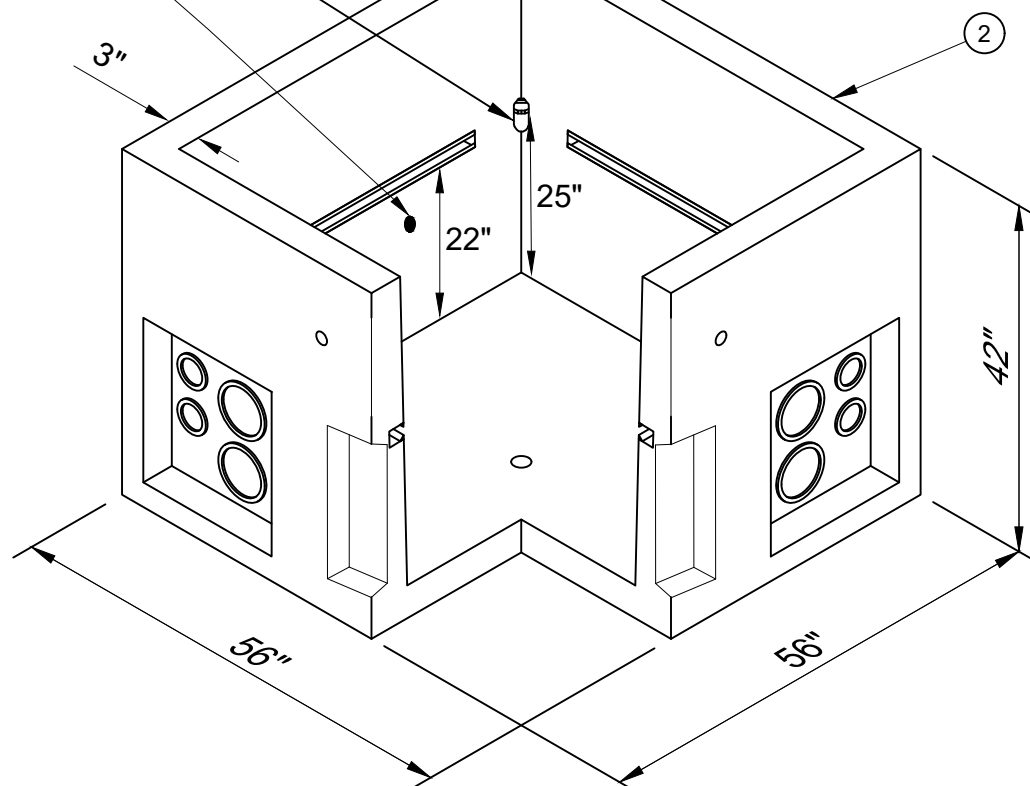
V.04.02.00

BURKE EYES



INTERNAL GROUND
ON OPPOSITE SIDE
WALLS

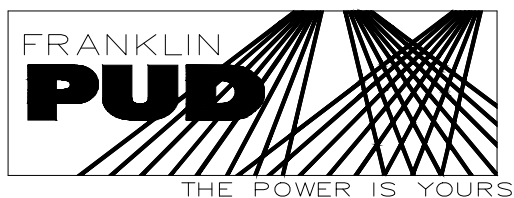
4 BURKE EYES



NOTES:

1. SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES

V.04.03.00.DGN



VAULT, TRANSFORMER
3-PH PAD-MOUNT (45-300KVA)

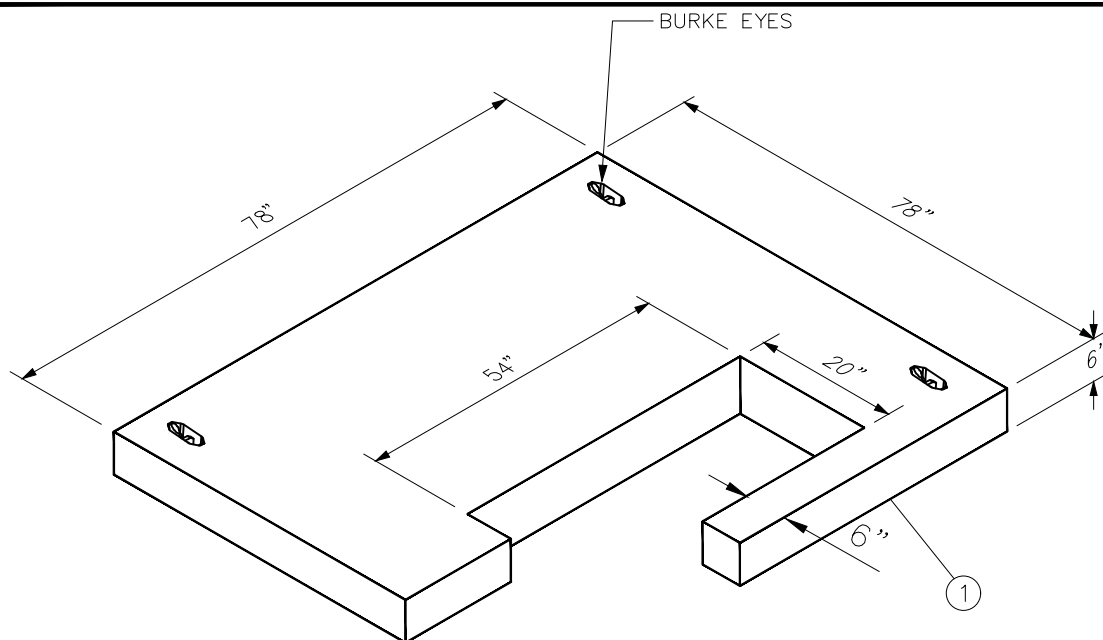
DWN.

DATE: 5/08
UPDATED: 3/23

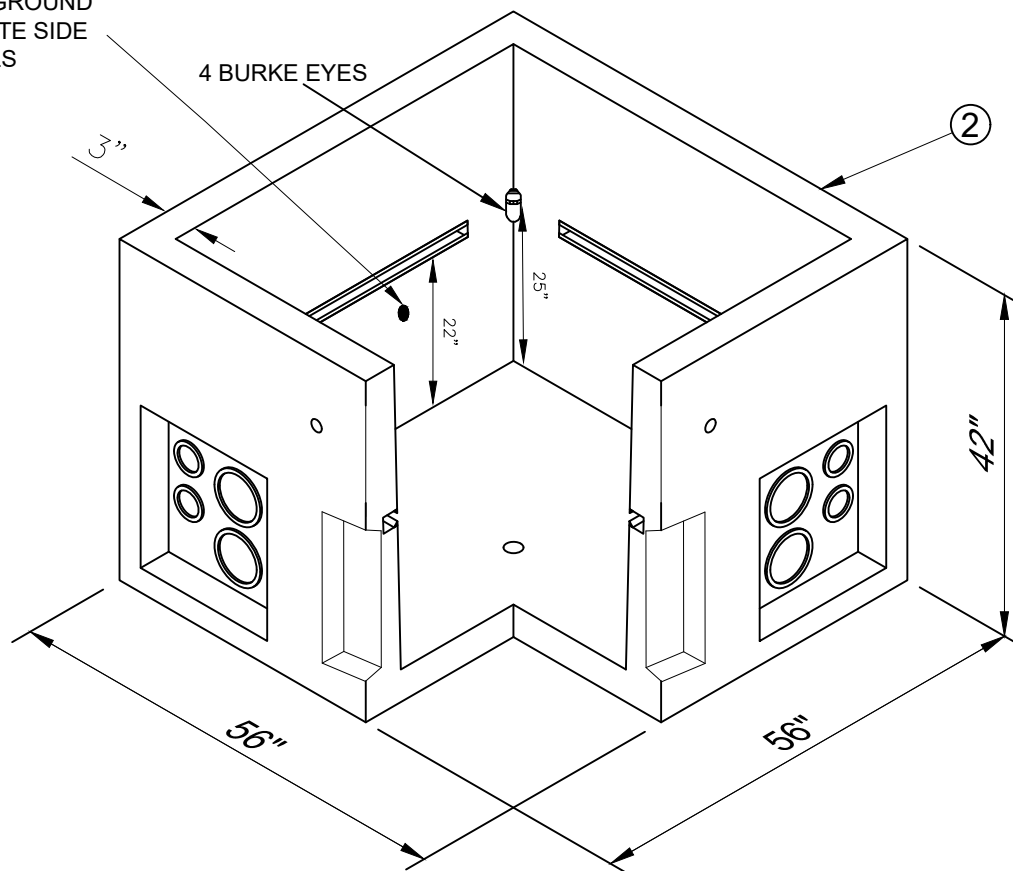
DWG. NO.

V.04.03.00

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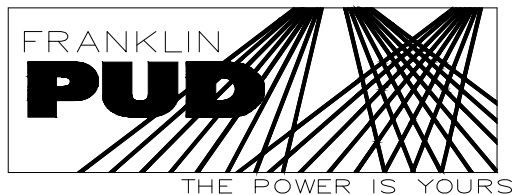
INTERNAL GROUND
ON OPPOSITE SIDE
WALLS



NOTES:

1. SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES

V.04.04.00.DGN



VAULT, TRANSFORMER
3-PH PAD-MOUNT (500-750 KVA)

DWN.

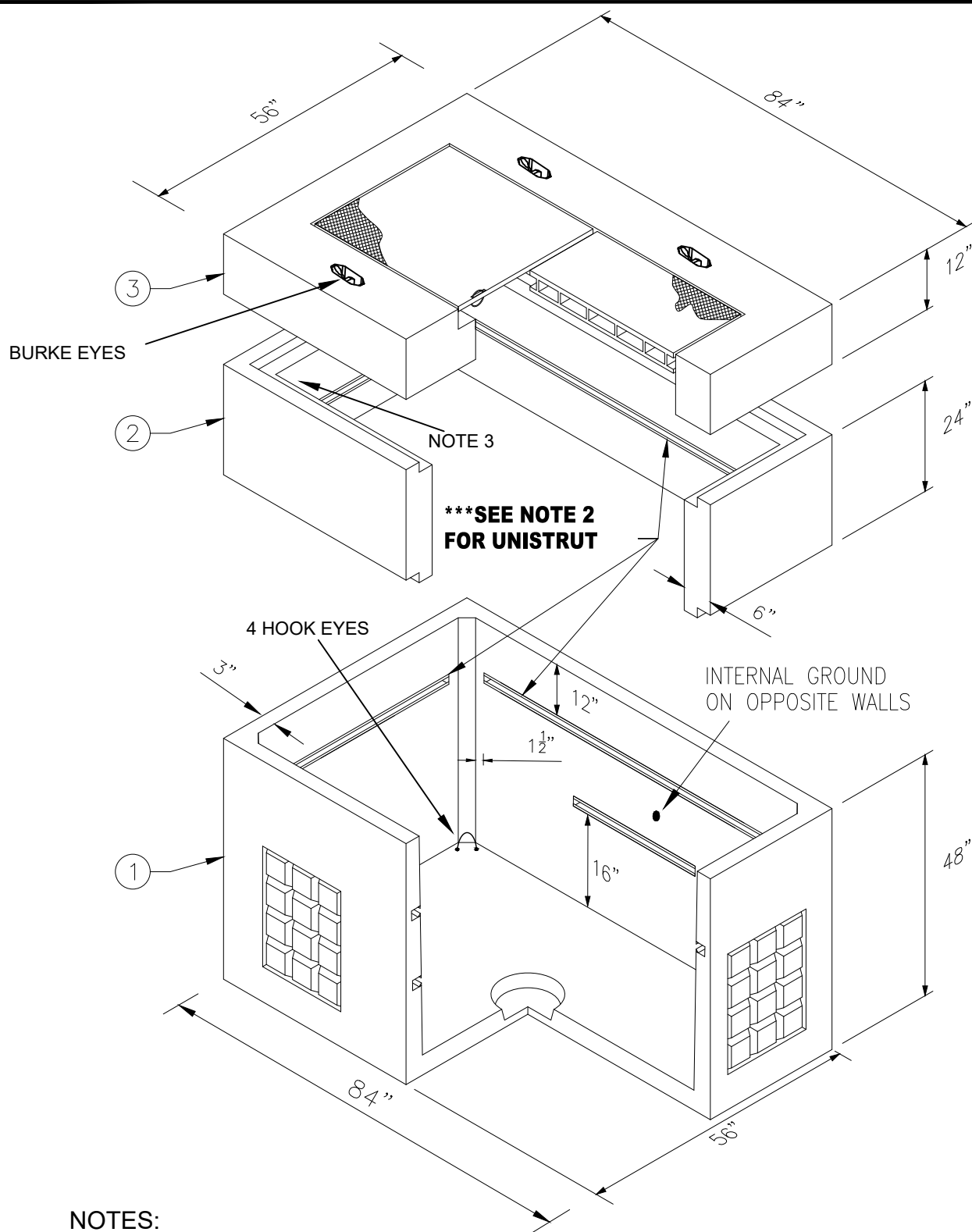
DATE: 5/08
UPDATED: 3/23

DWG. NO.

APP.

V.04.04.00

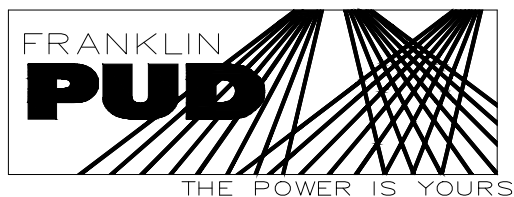
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NOTES:

- 1) SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES
- 2) UNISTRUT SHALL EXTEND TO WITHIN 1.5" OF THE VAULT WALLS ON BOTH THE VAULT AND THE 24" EXTENSION
- 3) BURKE EYES ON 4 CORNERS ON THE INSIDE, 12" FROM EXTENSION RING TOP

V.06.01.00.DGN



PRIMARY JUNCTION VAULT THREE PIECE WITH STEEL LID COVER

DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

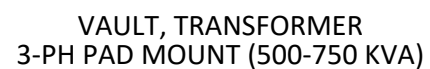
V.06.01.00

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-BURKE EYES (TYPICAL)

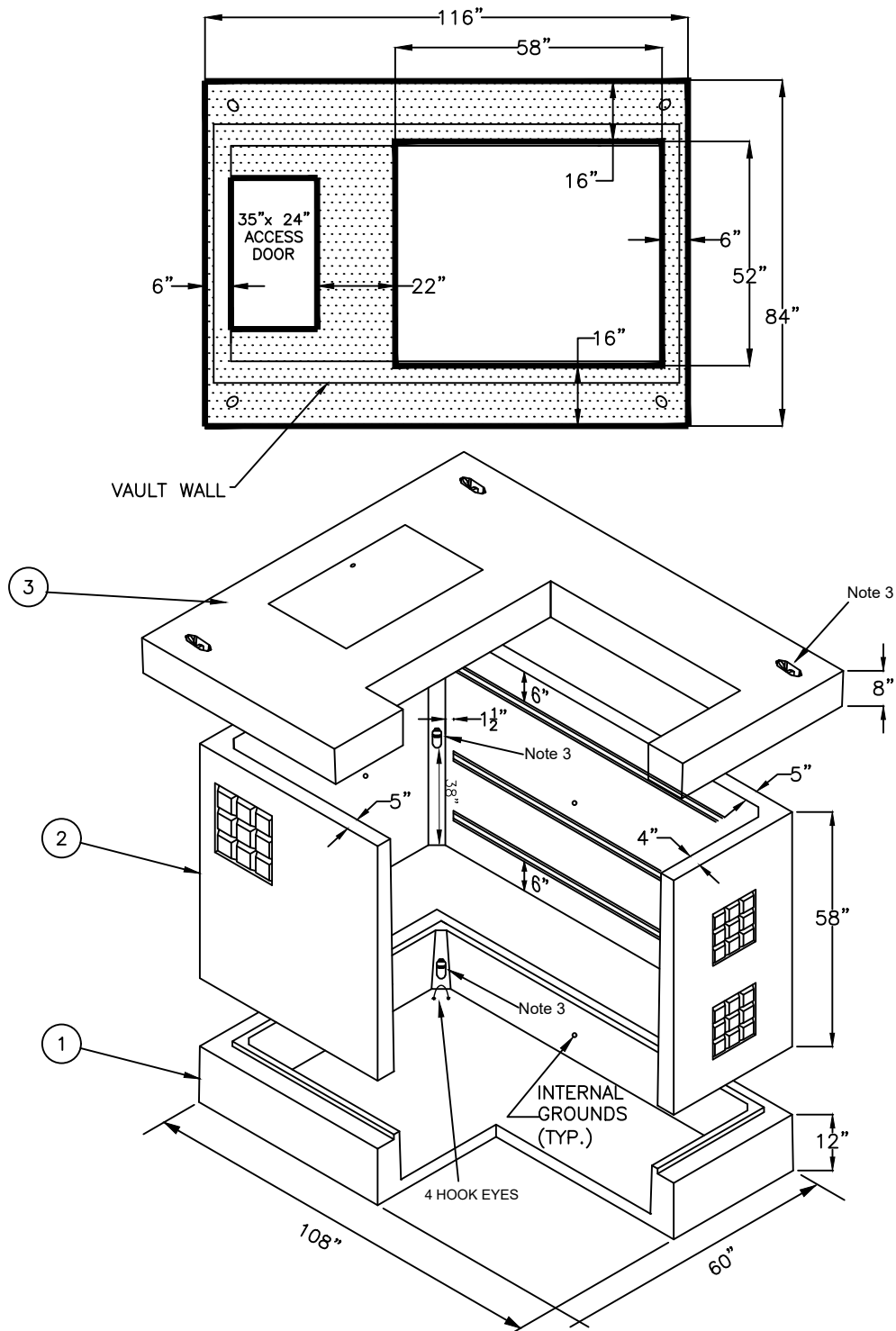


V.06.03.00.dwg



DWG. NO.

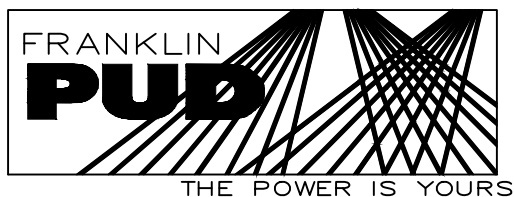
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NOTE:

- 1) SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES.
- 2) INTERNAL GROUNDING ACCESS POINTS. (4 PER SECTION, AS SHOWN)
- 3) BURKE LIFTING EYES (4 PER SECTION, AS SHOWN)

V.08.04.00.DWG



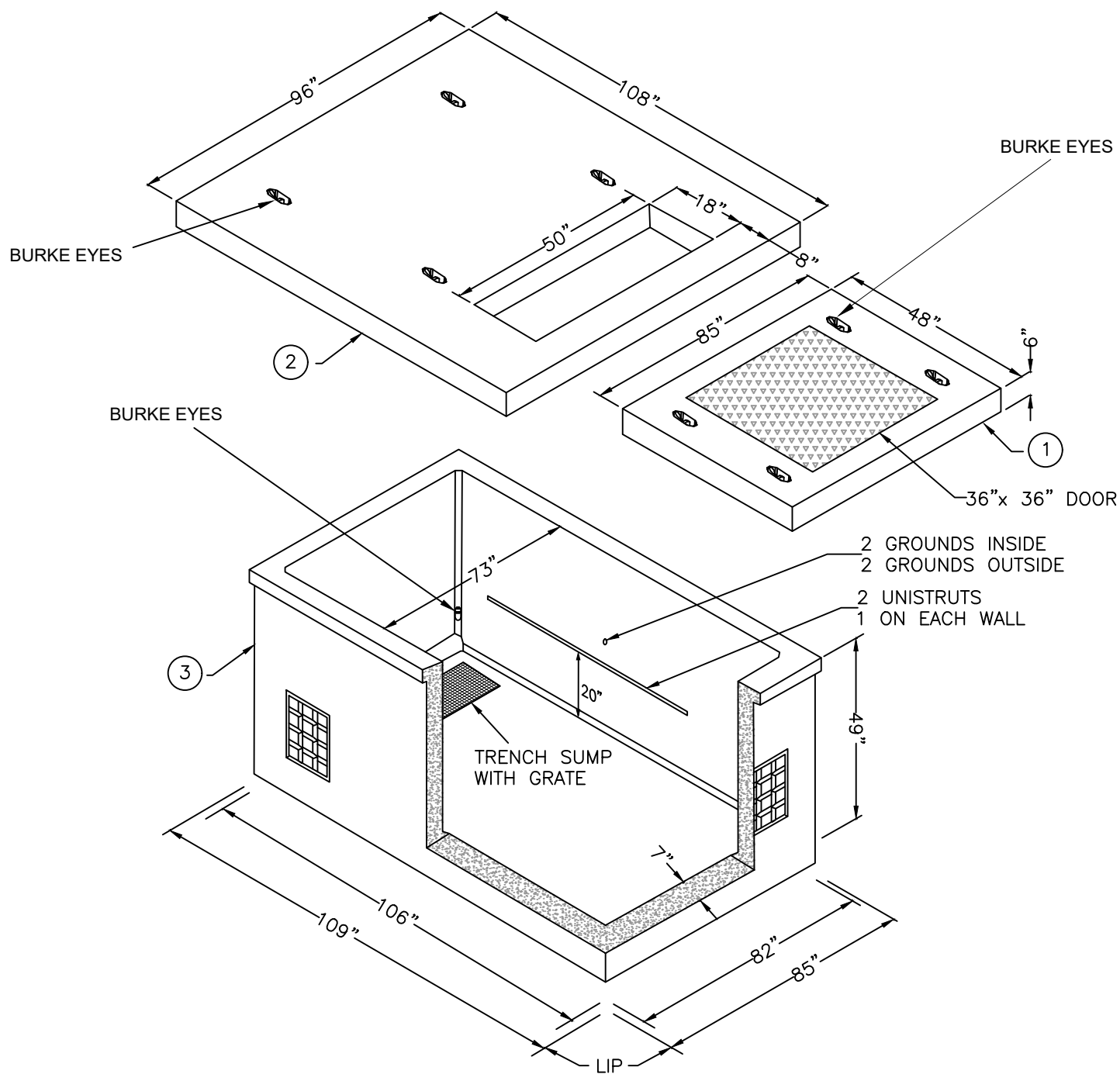
**PRIMARY JUNCTION VAULT WITH
CAPACITOR, RECLOSER, PRIMARY METER LID**

DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

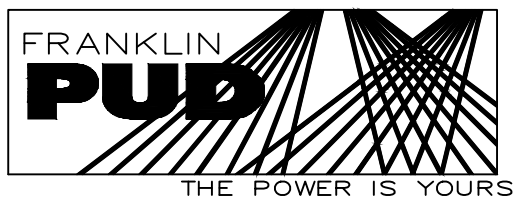
V.08.04.00



NOTES:

1)SEE ELECTRICAL SERVICE REQUIREMENTS FOR VAULT INSTALLATION GUIDELINES

V.10.03.00.DWG



**VAULT, TRANSFORMER
3-PH PAD-MOUNT (1000KVA AND ABOVE)**

DWN.
NAME
APP.

DATE: 5/08
UPDATED: 3/23

DWG. NO.

V.10.03.00