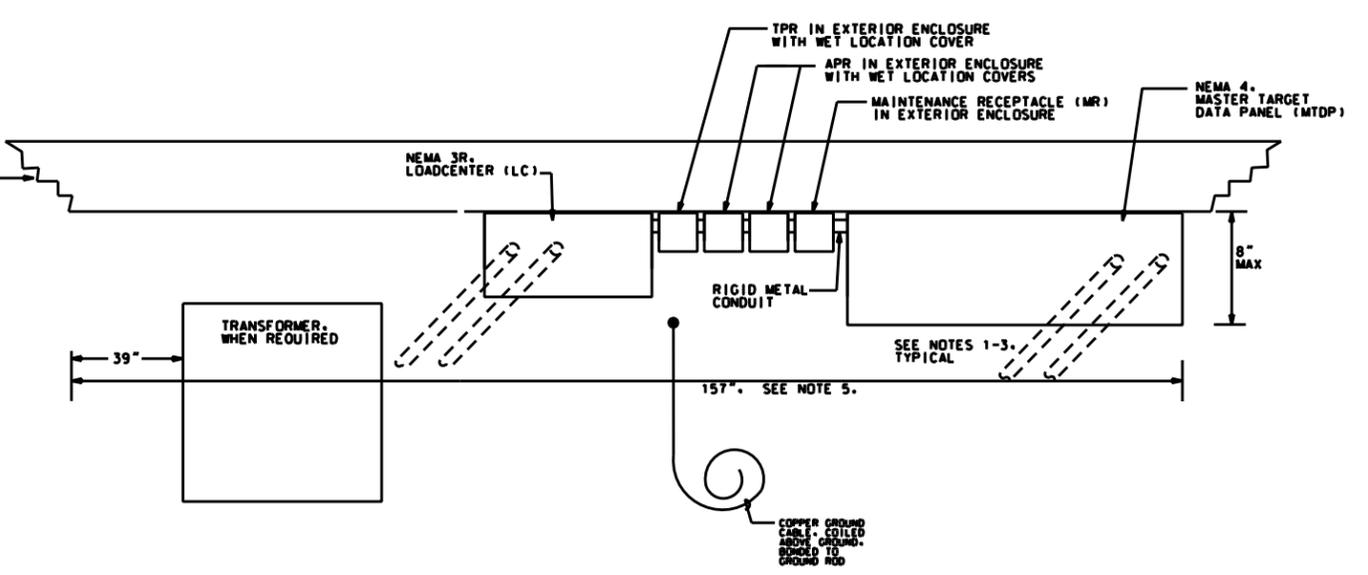


MAT TARGET ELEVATION
NOT TO SCALE



MOVING ARMOR TARGET (MAT) PLAN
NOT TO SCALE

NOTES:

- CONDUIT TO EXTEND 5 FEET BEYOND EMPLACEMENT.
- CABLES/CONDUITS ARE ROUTED FROM SIDE OF BERM TO PREVENT CABLE DAMAGE FROM PROJECTILES DIGGING INTO THE BERM.
- ROUTE TO THE SAME TRENCH THE POWER IS ROUTED IN.
- ALL EQUIPMENT SHALL NOT BE MOUNTED HIGHER THAN 2" FROM TOP OF EMPLACEMENT WALL.
- LENGTH OF 157" IS FOR MAT WITH THE STANDARD EQUIPMENT SHOWN. INCREASE LENGTH TO 236" WHEN SECTIONALIZING ENCLOSURE IS REQUIRED IN DESIGN. COORDINATE WITH CIVIL DESIGN.
- WHEN FIBER OPTIC CABLE IS NOT USED, FIBER PATCH PANEL IS NOT REQUIRED.
- THE ENDS OF THE CATSE CABLES SHALL BE TERMINATED WITH A DATA SURGE PROTECTOR.
- NOT USED.
- WIRE THE DPR AHEAD OF THE GFCI MAINTENANCE RECEPTACLE TO AVOID NUISANCE TRIPPING.
- PERMANENTLY LABEL THE EMPLACEMENT ACCORDING TO THE CIVIL AND ELECTRICAL DESIGNATIONS FOR
- PROVIDE SEAL FITTINGS AS SHOWN ON SHEET ED-01 ON ALL NEMA 4, 4X, OR 6P RATED ENCLOSURES.
- ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.
- IF TARGET IS BATTERY OPERATED WITH NO AC POWER PROVIDED, THE TARGET GROUND ROD SHALL BE INSTALLED WITH A 10' COILED #1/0 AWG BARE COPPER GROUND CABLE FOR FUTURE BONDING TO THE TARGET TRACK.
- PROVIDE TARGET AND AUXILIARY OUTLETS WITH NEMA 3R WET LOCATION COVERS MAKING OUTLETS SUITABLE FOR USE IN WET LOCATIONS. SEE DETAIL ON SHEET ED-01 FOR WET LOCATION COVER. IN USE COVERS SUCH AS LEVITON M59X TYPE OUTLET COVER WILL NOT CLOSE OVER TARGET PLUG AND CORD.
- DEVIATIONS TO THE EQUIPMENT SIZES, EQUIPMENT NUMBERS, RECEPTACLE COVERS, OR CABLE ENTRY METHODS INTO ENCLOSURES WILL REQUIRE RANGE TRAINING AND LAND PROGRAM HUNTSVILLE CENTER MANDATORY CENTER OF EXPERTISE CONTACT.

| PANEL BOARD: MAT | | LOCATION: XXXXXXX | | MOUNTED: SURFACE | | FEED: BOTTOM | | | | | | | |
|------------------------|-----------|-----------------------------|-----------|------------------------|-----|-----------------|---------|--------------------------------|------|-----------|-----------|-----------|-----------------------------------|
| XXXX MAIN | | MAIN LUGS OR FEED THRU LUGS | | ASYM A.I.C MIN.: XXXXX | | | | | | | | | |
| VOLTAGE: 240/120 | | PHASE: 1 | | WIRE: 3 | | RATING: NEMA 3R | | | | | | | |
| LOAD SERVED | NO. POLES | TRIP AMPS | WIRE SIZE | VA/ PHASE | | CKT NO. | CKT NO. | VA/ PHASE | | WIRE SIZE | TRIP AMPS | NO. POLES | LOAD SERVED |
| | | | | A | B | | | A | B | | | | |
| SURGE ARRESTOR | 2 | --- | --- | --- | --- | 1 | 2 | 1900 | --- | 12 | 20 | 2 | MAT (NEMA L14-20R, 2-NEMA L5-20R) |
| SPARE | 1 | 20 | --- | --- | --- | 5 | 6 | 50 | --- | 12 | 20 | 1 | TDP AND MR |
| SPACE | | | | | | 7 | 8 | | | | 20 | 1 | SPACE |
| SPACE | | | | | | 9 | 10 | | | | | 1 | SPACE |
| SPACE | | | | | | 11 | 12 | | | | | 1 | SPACE |
| | | | | 0 | 0 | | | 1950 | 1900 | | | | |
| TOTAL VA PHASE A: 1950 | | | | | | | | TOTAL CONNECTED WATTAGE: 3,850 | | | | | |
| TOTAL VA PHASE B: 1900 | | | | | | | | DEMAND WATTAGE: 3,800 | | | | | |
| SUPPLIED FROM: TRSF-XX | | | | | | | | TOTAL DEMAND AMPS: 16 | | | | | |

| Rev. | Date | Description |
|------|------|-------------|
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|--|-----------------|---------------|--------------|---------------|
| Designed by: | Drawn by: | Checked by: | Reviewed by: | Submitted by: |
| | | | | |
| Date: | Design file no. | Drawing code: | File name: | Plot name: |
| | | | | |
| U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE, ALABAMA | | | | |
| 20 FEBRUARY 2008 | | | | |

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
MOVING ARMOR TARGET
EMPLACEMENT