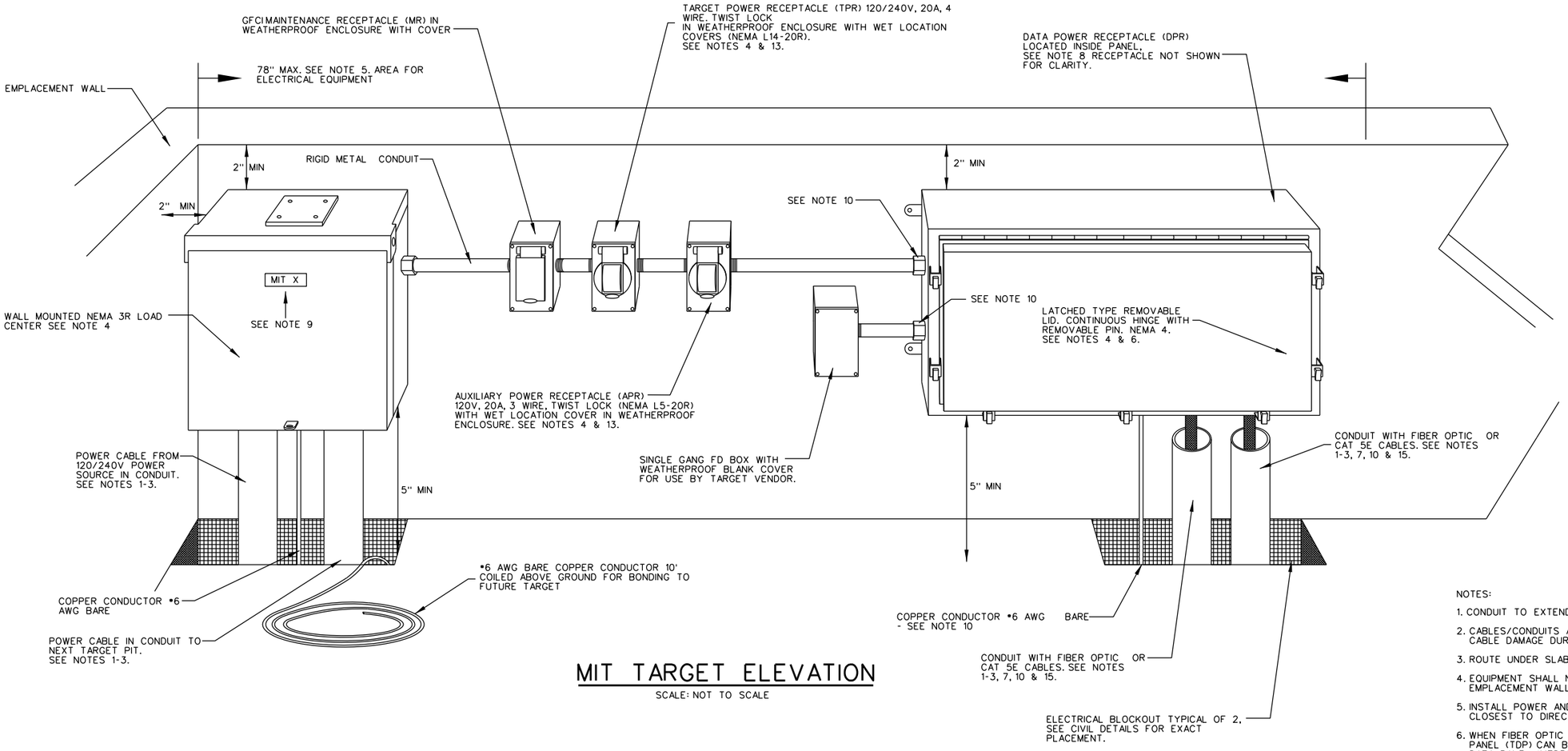
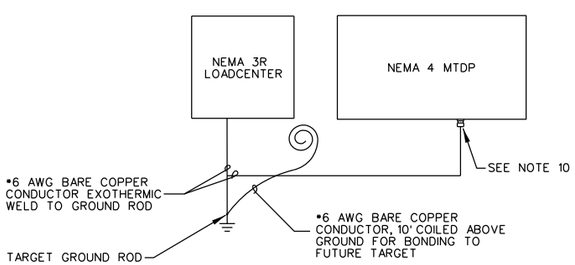


MIT TARGET ELEVATION

SCALE: NOT TO SCALE

NOTES:

1. CONDUIT TO EXTEND 5 FEET BEYOND EMPLACEMENT.
2. CABLES/CONDUITS ARE ROUTED FROM SIDE OF BERM TO PREVENT CABLE DAMAGE DURING MAINTENANCE OF BERM.
3. ROUTE UNDER SLAB. POWER AND DATA INSTALLED IN SAME TRENCH.
4. EQUIPMENT SHALL NOT BE MOUNTED HIGHER THAN 2" FROM TOP OF EMPLACEMENT WALL.
5. INSTALL POWER AND DATA ON THE FIRST 78" OF THE FRONT WALL CLOSEST TO DIRECTION OF FIRE.
6. WHEN FIBER OPTIC CABLE IS NOT USED, 16"X12" TARGET DATA PANEL (TDP) CAN BE USED INSTEAD OF 24"X12" MASTER TARGET DATA PANEL (MTDP). FIBER PATCH PANEL IS NOT REQUIRED IN TDP.
7. THE ENDS OF THE CAT5E CABLES SHALL BE TERMINATED WITH A DATA SURGE PROTECTOR.
8. WIRE THE DPR AHEAD OF THE GFCI MAINTENANCE RECEPTACLE TO AVOID NUISANCE TRIPPING.
9. PERMANENTLY LABEL THE EMPLACEMENT ACCORDING TO THE CIVIL AND ELECTRICAL DESIGNATIONS.
10. PROVIDE SEAL FITTINGS AS SHOWN IN DETAIL ON ED-01 FOR ALL CABLE PENETRATIONS TO NEMA 4, 4X, OR 6P RATED ENCLOSURES. INSTALL MYERS TYPE HUBS ON ALL CONDUIT PENETRATIONS TO SIDE OF ENCLOSURE.
11. ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.
12. IF TARGET IS BATTERY OPERATED WITH NO AC POWER PROVIDED, THE TARGET GROUND ROD SHALL BE INSTALLED WITH A 6' COILED #6 AWG BARE COPPER GROUND CABLE FOR FUTURE BONDING TO THE TARGET MECHANISM.
13. PROVIDE TARGET AND AUXILIARY OUTLETS WITH NEMA 3R WET LOCATION COVERS MAKING OUTLETS SUITABLE FOR USE IN WET LOCATIONS. SEE DETAIL 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 AND ARE NOT ACCEPTABLE FOR TARGET POWER AND AUXILIARY RECEPTACLES.
14. 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 APPROVAL.
15. CONDUIT STUBBED UP AS CLOSE TO CABLE SEAL FITTING AS POSSIBLE.
16. SEE SHEET ED-06 FOR ADDITIONAL INFORMATION ON TARGET DATA PANELS. SEE SHEET ED-07 FOR ADDITIONAL INFORMATION ON MASTER TARGET DATA PANELS.



EMPLACEMENT GROUNDING DETAIL

SCALE: NOT TO SCALE

PANEL BOARD: MIT LOCATION: XXXXXXX MOUNTED: SURFACE FEED: BOTTOM

100 AMP MIN 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 A	VA/ PHASE B	CKT NO.	CKT. NO.	VA/ PHASE A	VA/ PHASE B	WIRE SIZE	TRIP AMPS	NO. POLES	LOAD SERVED
SURGE ARRESTOR	2	---	---	---		1	2	1000		12	20	2	MIT (NEMA L14-20R, NEMA L5-20R, DPR)
					---				1000				
FEED THRU PROVISIONS	2	---	---	---		5	6	50		12	20	1	MR
					---	7	8		---	---	20	1	SPARE
SPACE						9	10						SPACE
SPACE						11	12						SPACE
				0	0			1050	1000				

TOTAL VA PHASE: A: 1050
TOTAL VA PHASE: B: 1000

TOTAL CONNECTED WATTAGE: 2,050
TOTAL DEMAND WATTAGE: 2,000
TOTAL DEMAND AMPS: 8

SUPPLIED FROM: TRSF-XX

US Army Corps of Engineers

Rev.	Description	Date	Approved
Rev. *			

Designed by: Date: Rev.
Dwn by: Ckd by: Design file no.
Reviewed by: Drawing code:
Submitted by: File name: Plot scale: Plot date:

U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE HUNTSVILLE, ALABAMA

JUNE 2015

RANGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL

MOVING INFANTRY TARGET ELECTRICAL DETAILS

Sheet reference number: ED-02

Sheet ___ of ___