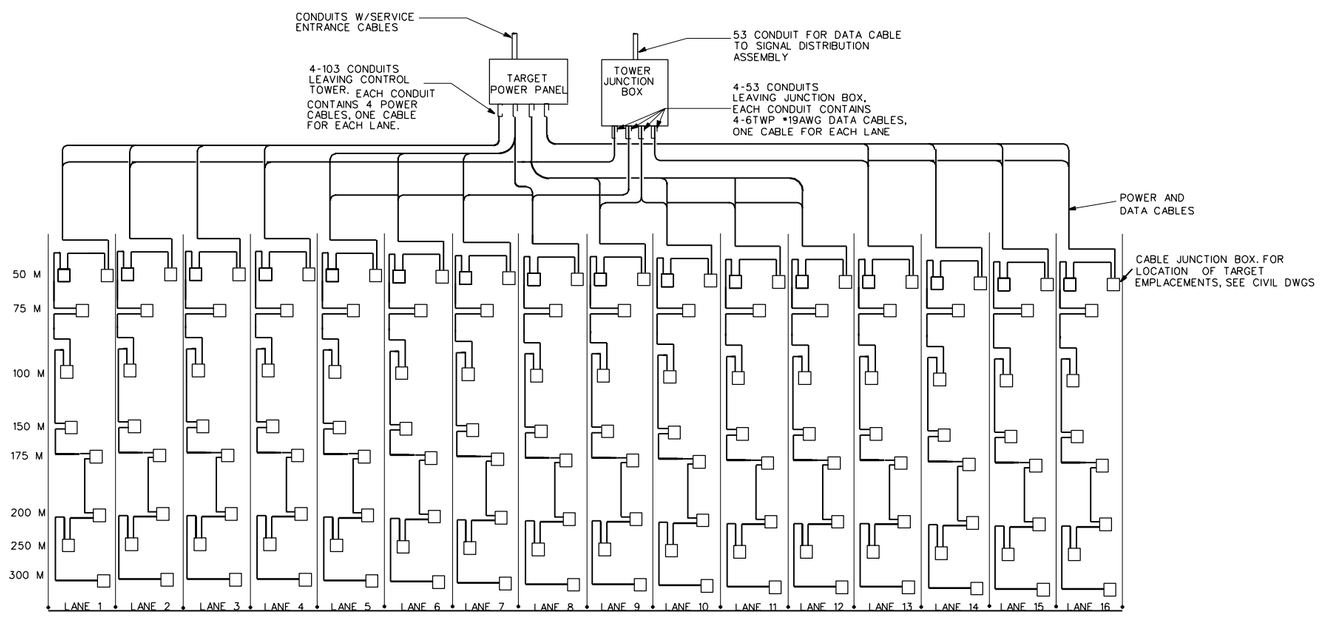

TYPICAL MODIFIED RECORD FIRE RANGE SINGLE LINE

N.T.S.

RANGE	TARGET LOCATIONS/LANE	DATA CABLES	TARGET FEEDER CABLE SIZES AND NO. OF CONDUCTORS		
			FROM	TO	CONDUCTOR
AUTOMATED FIELD FIRE	3/LANE - 1 EACH @ 75 M, 175 M, 300 M	1 - 6 TWP/LANE	POWER PANEL	175 M	1 - 3/C, #4 AWG
			175 M	300 M	1 - 3/C, #8 AWG
AUTOMATED RECORD FIRE	7/LANE - 2 @ 50 M, 1 EACH @ 100 M, 150 M, 200 M, 250 M, 300 M	1 - 6 TWP/LANE	POWER PANEL	150 M	1 - 3/C, #4 AWG
			150 M	300 M	1 - 3/C, #8 AWG
MODIFIED RECORD FIRE	9/LANE - 2 @ 50 M, 1 EACH @ 75 M, 100 M, 150 M, 175 M, 200 M, 250 M, 300 M	1 - 6 TWP/LANE	POWER PANEL	175 M	1 - 3/C, #4 AWG
			175 M	300 M	1 - 3/C, #8 AWG

NOTES:

1. THIS DRAWING IS STANDARD FOR 16 LANES ON A DEFENSE TEST RANGE: DRAWING SHALL BE REVISED TO DELETE ANY LANES NOT INCLUDED DURING SITE ADAPTATION.
2. SEE SHEETS E-03, E-04 AND E-05 FOR DETAILS OF CABLE JUNCTION BOX AND TOWER JUNCTION BOX.
3. THE SINGLE LINE SHOWN HERE IS TYPICAL FOR THAT OF A MODIFIED RECORD FIRE RANGE. SINGLE LINES FOR AUTOMATED FIELD FIRE AND AUTOMATED RECORD FIRE ARE THE SAME, WITH ONLY NUMBER OF TARGETS AND SIZES OF WIRE BEING DIFFERENT. SEE CHART TO LEFT FOR TYPICAL WIRE SIZING.

US Army Corps of Engineers

Symbol	Description	Date	Approved	Symbol	Description	Date	Approved

Designed by: N/A
Dwn by: JTP
Ckd by: MLR
Reviewed by: WLS
Submitted by: RNM
Date: 01 APR 98
Rev.
Design file no.
Drawing code: STD 179-00-01
File name: STDE17.DGN
Plot date: 20 MAR 98
Plot scale: FULL

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

FORCE XXI/FORCE MODERNIZATION PROGRAM
STANDARD DESIGN

TYPICAL AFF, ARF, AND MRF POWER AND DATA WIRING PLAN

Sheet reference number:
E-17