

### BILL OF MATERIALS (EAST ABUT)

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ. FT	670.0
STRUCTURAL REPAIR OF CONCRETE > 5"	SQ. FT	75.0
STONE DUMPED RIPRAP, CLASS A4	SQ. YD	20
EARTH EXCAVATION	CU YD	28
PERIMETER EROSION BARRIER	FOOT	65
FILTER FABRIC	SQ. YD	60
PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	90

### TABLE OF REACTIONS

	REACTIONS (Kips)		
	E. ABUT.	W. ABUT.	PIER
DL	54	61	213
SDL	40	50	83
LL	8	10	16
IMP.	8	10	16
TOTAL	102	121	312

### NOTES:

COMPLETELY DEWATER ABUTMENT VAULTS PRIOR TO PIPE UNDERDRAIN CONSTRUCTION. WATER SHALL BE PUMPED TO LOW POINT. COST INCLUDED WITH "PIPE UNDERDRAINS FOR STRUCTURES 4". "

### LEGEND:

- STRUCTURAL REPAIR OF CONCRETE ≤ 5"
- STRUCTURAL REPAIR OF CONCRETE > 5"
- RIPRAP

