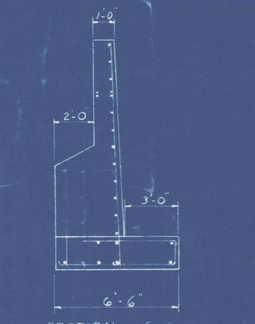
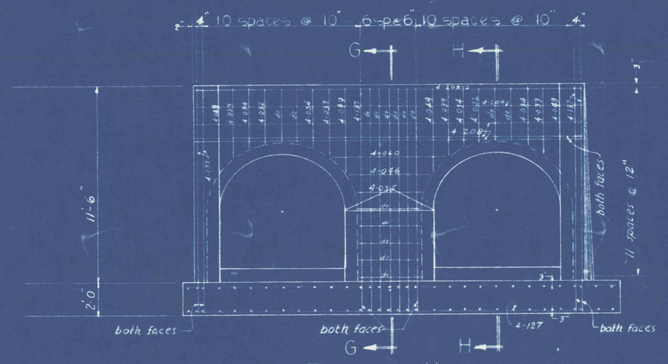
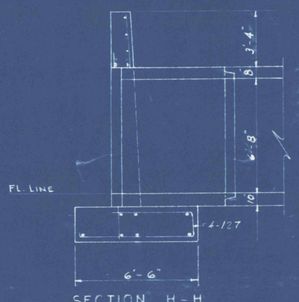
8919
D-1
SHEET 2 of 3



SECTION G-G



FRONT FACE ELEVATION HEADWALL



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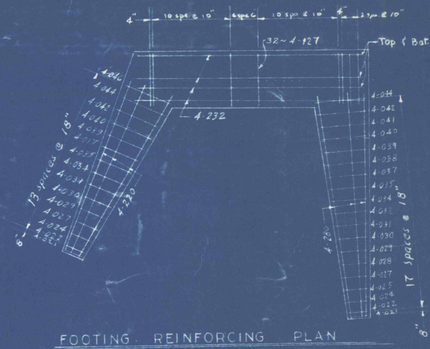
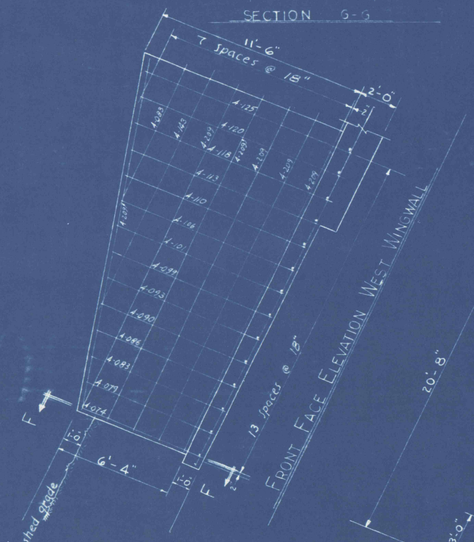
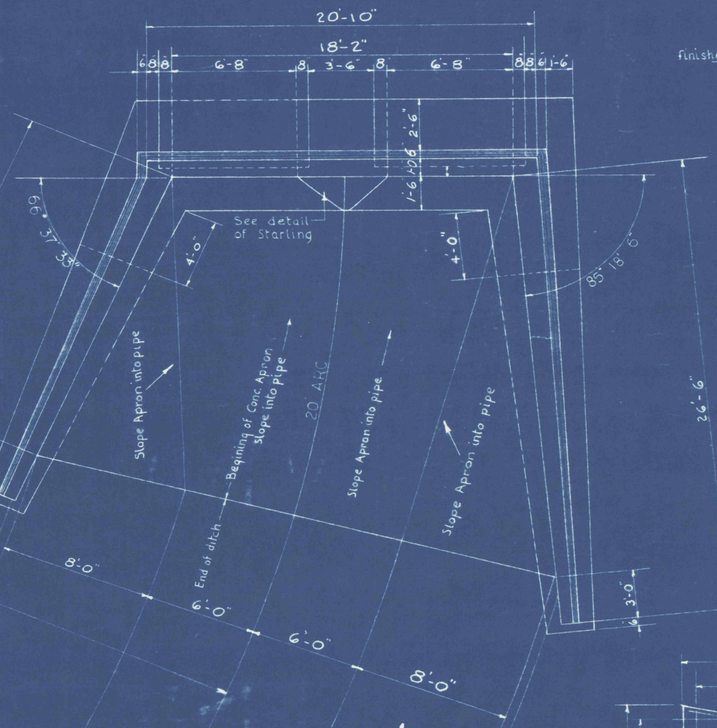
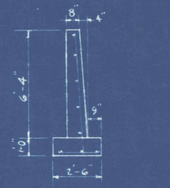


FOOTING REINFORCING PLAN

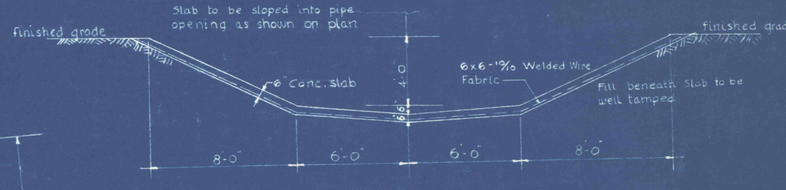




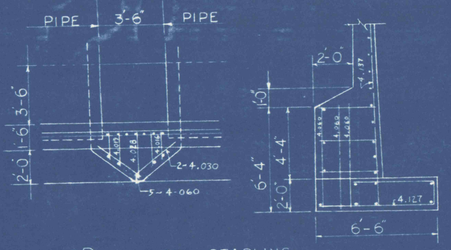
NOTE: For ditch details, elevations and Curve data; see Glen Alden Corp. drawings; "Surface Drainage Project no 1 Leuder Creek Hanover Twp. Luzerne County, PA."



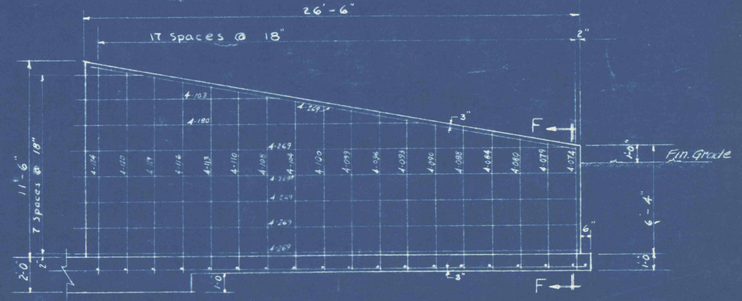
SECTION E-E



SECTION SHOWING SLAB CONSTRUCTION



DETAIL OF STARLING

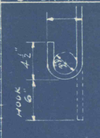


FRONT FACE ELEVATION EAST WINGWALL

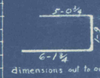
BILL OF REINFORCING BARS

NO REQ	SIZE	TYPE	LGTH	MARK	NO REQ	SIZE	TYPE	LGTH	MARK	BENDING DIAGRAM
Footing HW					1	4	hook	9-6	4.096	
32	4	Bent	12-7	4.127	1	"	"	9-3	4.093	
7	"	str.	23-2	4.232	1	"	"	9-0	4.090	
Vert & Horiz HW					1	"	"	8-8	4.088	
17	4	hook	13-7	4.137	1	"	"	8-4	4.084	
4	"	str.	4-9	4.049	1	"	"	8-0	4.080	
4	"	"	3-9	4.039	1	"	"	7-9	4.079	
4	"	"	3-4	4.034	1	"	"	7-4	4.074	
6	"	"	3-2	4.032	Horiz East WW					
7	"	"	20-8	4.208	1	4	str.	10-3	4.103	
1	"	"	6-0	4.060	1	"	"	18-0	4.180	
1	"	"	4-6	4.046	16	"	"	22-9	4.269	
6	"	"	3-5	4.035	Vert West WW					
Footing East West WW					1	4	hook	12-5	4.125	
3	4	str.	22-0	4.220	1	"	"	12-0	4.120	
3	"	"	22-0	4.220	1	"	"	11-8	4.118	
1	"	"	4-6	4.046	1	"	"	11-3	4.113	
2	"	"	4-4	4.044	1	"	"	11-0	4.110	
2	"	"	4-2	4.042	1	"	"	10-6	4.106	
1	"	"	4-1	4.041	1	"	"	10-1	4.101	
2	"	"	4-0	4.040	1	"	"	9-9	4.099	
2	"	"	3-9	4.039	1	"	"	9-3	4.093	
1	"	"	3-8	4.038	1	"	"	9-0	4.090	
2	"	"	3-7	4.037	1	"	"	8-6	4.086	
2	"	"	3-5	4.035	1	"	"	8-3	4.083	
2	"	"	3-4	4.034	1	"	"	7-9	4.079	
1	"	"	3-2	4.032	1	"	"	7-4	4.074	
2	"	"	3-1	4.031	Horiz West WW					
2	"	"	3-0	4.030	1	4	str.	9-9	4.099	
2	"	"	2-9	4.029	1	"	"	14-3	4.143	
1	"	"	2-8	4.028	6	"	"	20-9	4.209	
2	"	"	2-7	4.027	Starling					
1	"	"	2-5	4.025	5	4	str.	6-0	4.060	
2	"	"	2-4	4.024	6	"	"	3-0	4.030	
2	"	"	2-2	4.022	3	"	"	2-8	4.028	
Vert East WW					3	"	"	1'-9	4.019	
1	4	hook	12-4	4.124	3	"	"	1-6	4.016	
1	"	"	12-0	4.120						
1	"	"	11-9	4.119						
1	"	"	11-6	4.116						
1	"	"	11-3	4.113						
1	"	"	11-0	4.110						
1	"	"	10-8	4.108						
1	"	"	10-4	4.104						
1	"	"	10-0	4.100						
1	"	"	9-9	4.099						

BENDING DIAGRAM



All bars noted in schedule to be hooked; hook bottom of bar as shown in bending diagram



dimensions out to out

For bars noted to be bent 4.127

GENERAL NOTES

1-All excavation near track must be properly sheeted

2-All Concrete to have ~~2500~~ 3500 pounds per square inch compressive strength in 28 days

3-One inch chamfer on all exposed corners of walls

4-Footings must bear on firm soil

5-Reinforcing steel shall comply with the specification for structural steel as given in the standard specifications of AREA

6-Forms must not be removed until the concrete has attained sufficient strength to carry both the live load, dead load and any other loads that may be imposed on it

APPROVED L. J. Minnotte
Chief Engineer, CRR Co of N.J.

Sheet 10 of 11

CENTRAL RAILROAD Co. of N.J.
PENN. DIVISION NANTICOKE BR
AUCHINCLOSS, PA

CONCRETE PIPE CULVERT UNDER CRR

SOUTH HEADWALL

MARCH 6, 1957

PROJECT: GLENN ALDEN CORPORATION
SURFACE DRAINAGE PROJECT NO 14
LEUDER CREEK-HANOVER TWP-PA.