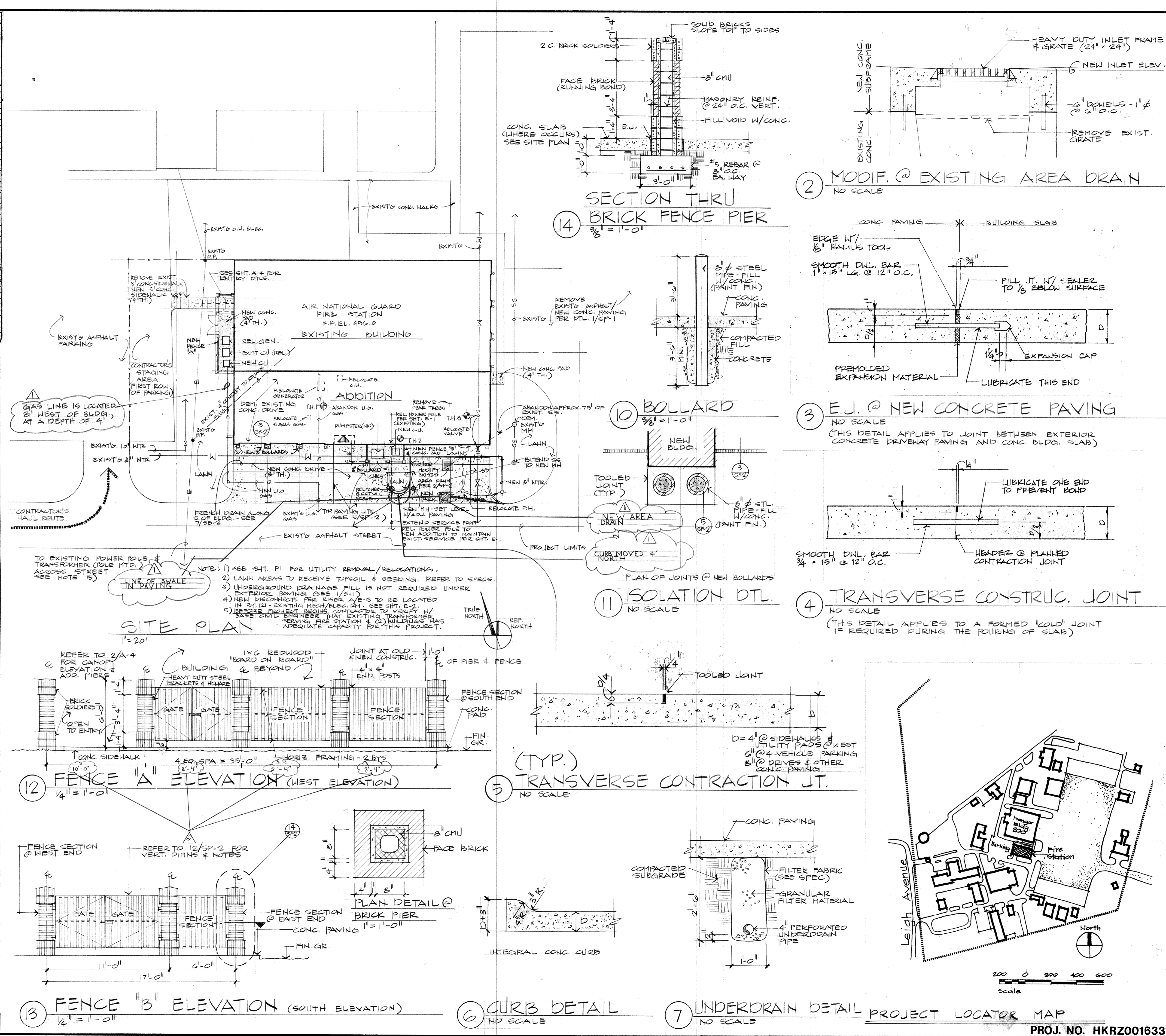


<b>Ali</b> Arkansas Laboratories Inc. GEOTECHNICAL MATERIALS & CONSULTING ENGINEERS FORT SMITH, ARKANSAS		Date Defined: Nov. 17, 1988 Boring No.: 1		
Project: ARKANSAS AIR NATIONAL GUARD FIRE STATION ADDITION FORT SMITH, ARKANSAS PROJECT NO. GF 88-86		Drilled By: Roberts Legged By: Roberts		
Boring Location: See Boring Location Plan		Ground Water Level: 11-17 Remarks: Upon Completion 4 days		
Depth: 3.5'	Penet. Record: 45 No. of Pockets: 1	Termination Elevation: 432.3		
Depth	Description of Material	Water Content %	Penet. Record	Drilling Notes and Remarks
0.4	TOPSOIL			
1.0	CLAY, Light Brown & Silty with Gravel	14.3	4.5+	
2.0	CLAY, Yellowish Brown & Silty			
4.0	Dry & Stiff			
5.0	CLAY, Yellowish Brown & Silty with Red & Gray Mottling & Iron Deposits	22.3	1.5	
	Moist & Firm			
8.5	SHALE, Brown & Weathered	21.6		
10.0	Becoming Grayish Brown with Depth	10.6	50 Blows = 0.1'	
15.0	Dry & Medium Soft	10.8	50 Blows = 0.5'	
18.0				Recovery = 78% RQD = 0%
20.5	SHALE, Gray & Fissile			
23.0	Dry & Medium Soft			Terminated @ 23.0 Ft.

<b>Ali</b> Arkansas Laboratories Inc. GEOTECHNICAL MATERIALS & CONSULTING ENGINEERS FORT SMITH, ARKANSAS		Date Defined: Nov. 17, 1988 Boring No.: 2		
Project: ARKANSAS AIR NATIONAL GUARD FIRE STATION ADDITION FORT SMITH, ARKANSAS PROJECT NO. GF 88-86		Drilled By: Roberts Legged By: Roberts		
Boring Location: See Boring Location Plan		Ground Water Level: 11-17 Remarks: Upon Completion 4 days		
Depth: 2.3'	Penet. Record: 23 No. of Pockets: 1	Termination Elevation: 437.9		
Depth	Description of Material	Water Content %	Penet. Record	Drilling Notes and Remarks
0.5	TOPSOIL			
2.0	CLAY, Dark Reddish Brown & Silty	24.0	1.0	
5.0	CLAY, Yellowish Brown & Silty with Iron Deposits	27.0	2.5	
6.0	Moist & Firm			
9.0	CLAY, Yellowish Brown & Silty with Gray Mottling & Iron Deposits	21.7		
10.0	Slightly Moist & Stiff			
12.0	SHALE, Brown & Weathered	12.0		
15.0	Dry & Soft	15.1	50 Blows = 0.3'	
15.5				Water @ 15.0'
16.3	SHALE, Gray & Clayey	50		Terminated @ 16.3 Ft.

<b>Ali</b> Arkansas Laboratories Inc. GEOTECHNICAL MATERIALS & CONSULTING ENGINEERS FORT SMITH, ARKANSAS		Date Defined: Nov. 17, 1988 Boring No.: 3		
Project: ARKANSAS AIR NATIONAL GUARD FIRE STATION ADDITION FORT SMITH, ARKANSAS PROJECT NO. GF 88-86		Drilled By: Roberts Legged By: Roberts		
Boring Location: See Boring Location Plan		Ground Water Level: 11-17 Remarks: Upon Completion 4 days		
Depth: 4.0'	Penet. Record: 45 No. of Pockets: 1	Termination Elevation: 433.5		
Depth	Description of Material	Water Content %	Penet. Record	Drilling Notes and Remarks
0.3	TOPSOIL			
2.0	CLAY, Light Brown & Silty with Some Organics	13.9	4.5+	
3.5	Slightly Moist & Firm to Stiff			
5.0	CLAY, Yellowish Brown with Red & Gray Mottling & Iron Deposits	25.8	1.75	
	Slightly Moist & Firm			
8.5	SHALE, Brown & Weathered	23.5		
10.0	Becoming Grayish Brown with Depth	12.6	8	
15.5	Slightly Moist & Very Soft	11		
16.0	SHALE, Gray, Clayey, & Fissile			Recovery = 57% RQD = 18%
21.0	Dry & Medium Soft			Terminated @ 21.0 Ft.



**Michael G. Johnson**  
 REGISTERED ARCHITECT  
 No. 1939  
 ARKANSAS

ADDITION / ALTERATION OF  
**FIRE STATION**  
 ARKANSAS AIR NATIONAL GUARD  
 FORT SMITH, ARKANSAS

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REVISIONS:  
 ASBUILT  
 NEW FENCE MEASUREMENTS

PROJECT: 88-18  
 DATE: 7-24-89  
 SHT. SP. 2 OF 2

**a+**

PROJ. NO. HKRZ001633