

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	(123B)I-1	FULTON	13	1
		ILLINOIS	CONTRACT NO. 68C75	

D-94-057-15

**INDEX OF SHEETS**

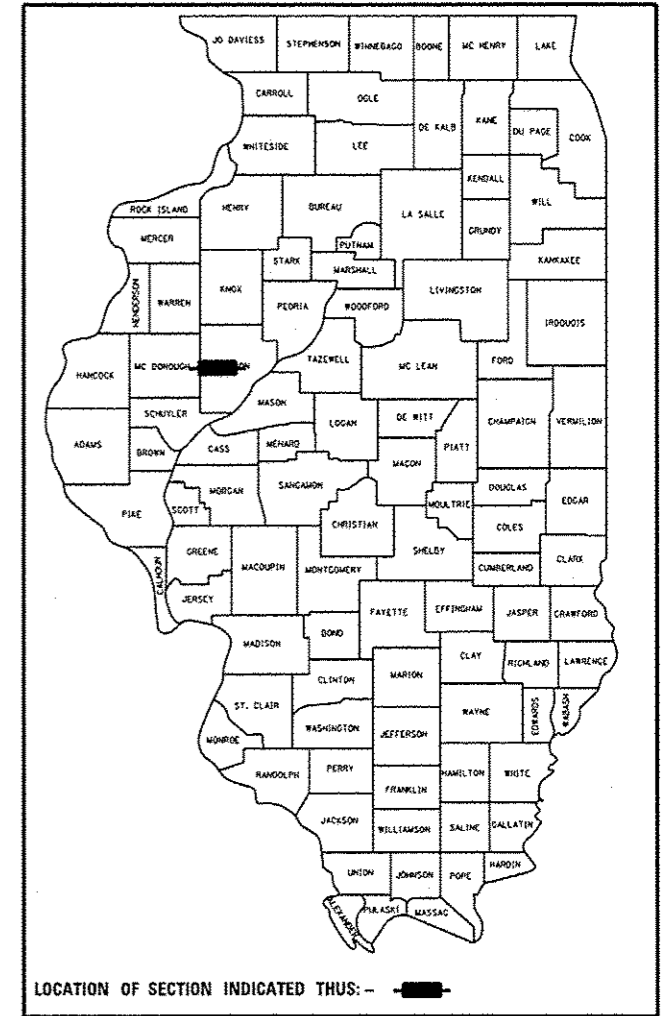
1. COVER SHEET
2. GENERAL NOTES AND PROJECT SPECIFIC NOTES
3. SUMMARY OF QUANTITIES
4. SCHEDULE OF QUANTITIES
5. GENERAL PLAN & ELEVATION (S.N. 029-0025)
- 6-13. STRUCTURAL REPAIR OF CONCRETE DETAILS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 687 (IL 95)  
SECTION (123B)I-1

CONTRACT MAINTENANCE  
FULTON COUNTY

C-94-097-15

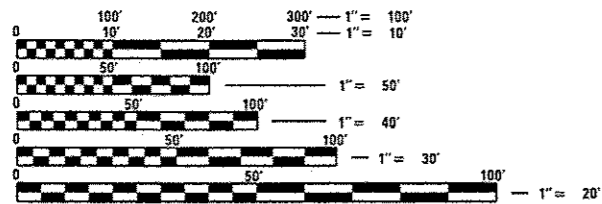
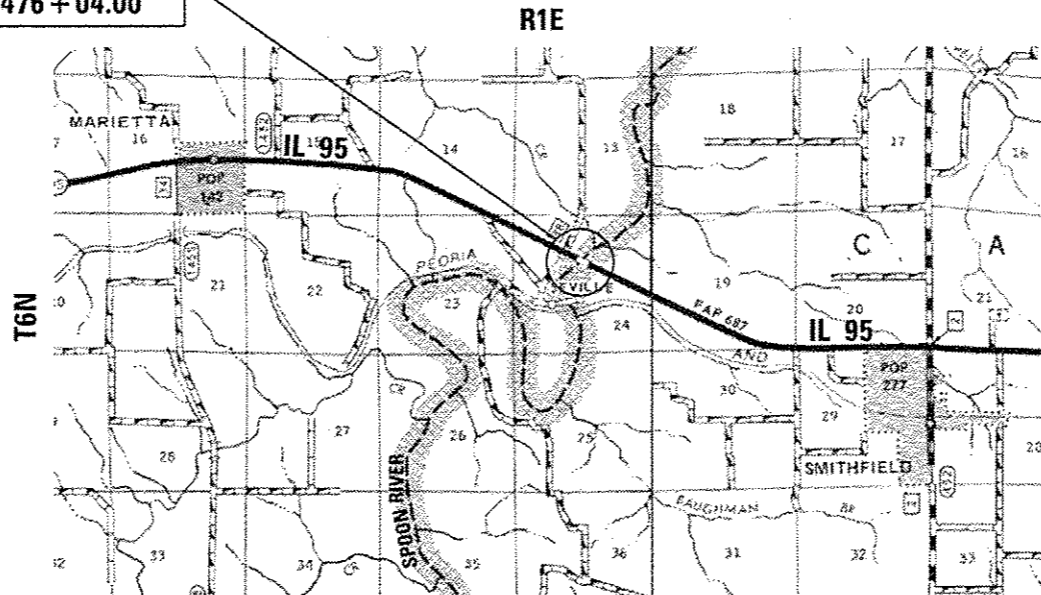


SUBSTRUCTURE REPAIR TO STRUCTURE CARRYING IL 95  
OVER THE SPOON RIVER (SN 029-0025), 2 MILES WEST  
OF SMITHFIELD.

**HIGHWAY STANDARDS**

- 701001-02
- 701006-05
- 701201-04
- 701301-04
- 701901-04

IMPROVEMENT BEGINS STA. 470 + 93.43  
IMPROVEMENT ENDS STA. 476 + 04.00



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: RICHARD DOTSON (309-671-3455)  
PROJECT MANAGER: JOSH JOCHUMSKEVIN HORST (309-671-3472)  
CATALOG NO. 035311-00D  
CONTRACT NO. 68C75

GROSS LENGTH = 510.57 FT. = 0.0967 MILE  
NET LENGTH = 510.57 FT. = 0.0967 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Dec 15 20 15  
Kunal A. Barnette  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 29 20 16  
Maureen M. Addis PE  
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 29 20 16  
Omer Osman PE  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

## GENERAL NOTES

### COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made. There are no commitments for this project.

### PROPERTY OWNER ACCESS REQUIREMENT

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

## PROJECT SPECIFIC NOTES

The intent of this substructure repair is to supplement the experimental work done in 2012 where the delaminated and loose concrete was simply chipped off, blast cleaned, the rebar and surrounding concrete was metalized, and the metalized patch areas were then sealed with a concrete sealer. Metalizing is where molten zinc is sprayed onto the surface of the rebar and surrounding concrete. The intent of the 2012 work was to halt further corrosion of the rebar in a cost effective way. The unintended consequence was that substantially more concrete was removed than was anticipated, thus somewhat compromising the structural capacity of some of the columns.

The intent of this current contract is to follow the guidelines as set forth in the GBSP 53, Guide Bridge Special Provision: **STRUCTURAL REPAIR OF CONCRETE**. It should be noted that a substantial amount of the concrete removal work has already been achieved by the work done in 2012, however, much more needs to be done such as, but not limited to, saw cutting the perimeters of the patches where not done already, chipping more concrete to achieve the minimum repair depth of 1", and undercutting the rebar where necessary. Finally, when preparing the repair areas by blast cleaning, it should be noted that it is desired to leave intact as much metalizing as possible, especially on the rebar, while blast cleaning thoroughly enough to clean the patch area as intended by the GBSP as well as removing all of the concrete sealer applied in the 2012 work.

Note that no previous work has been done on the 20% "Winter Break-up" quantity provided in the schedule of quantities for Structural Repair of Concrete. The 20% "Winter Break-up" quantity will be found by the Resident Engineer through sounding.

FILE NAME :	USER NAME : AUBREYGS	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES AND PROJECT SPECIFIC NOTES</b>					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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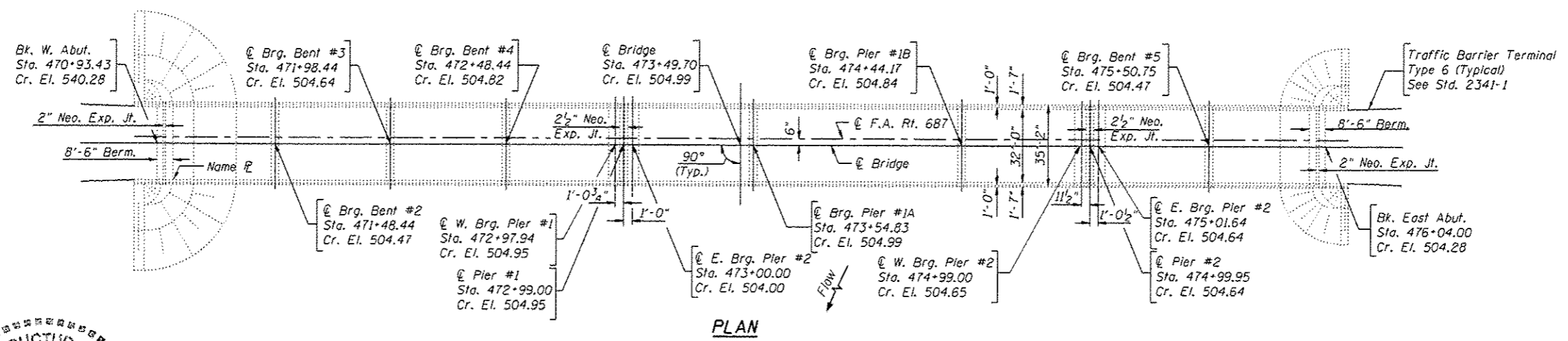
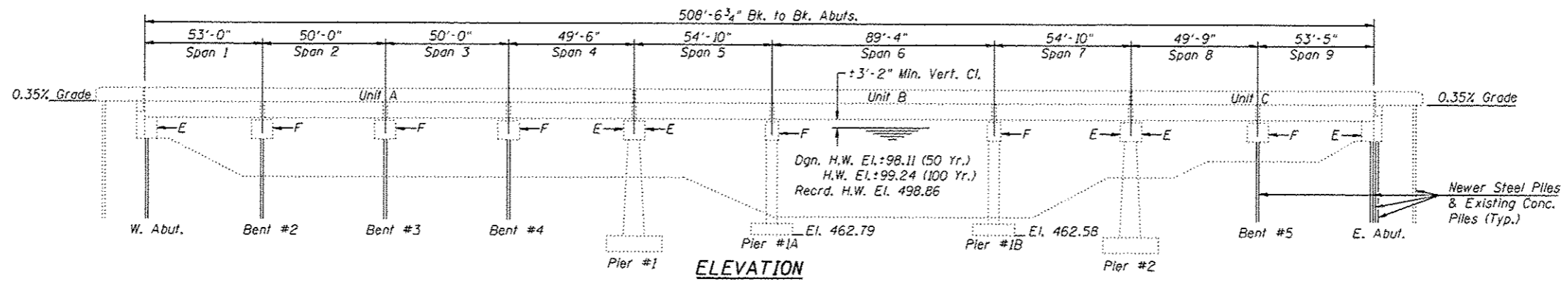


MOBILIZATION	
LOCATION	L SUM
JOBSITE	1
<b>TOTAL</b>	<b>1</b>

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

TRAFFIC CONTROL & PROTECTION STANDARD 701201	
LOCATION	L SUM
JOBSITE	1
<b>TOTAL</b>	<b>1</b>

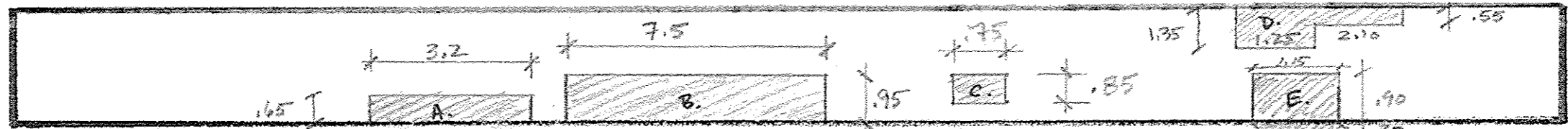
STRUCTURAL REPAIR OF CONCRETE (DEPTH LESS THAN OR EQUAL TO 5 INCHES)	
LOCATION	AREA (SF)
BENT #2	133.98
BENT #3	83.02
BENT #4	43.44
BENT #5	66.13
SUBTOTAL	326.57
ADD 20% FOR WINTER BREAK-UP	65.31
<b>TOTAL</b>	<b>392</b>



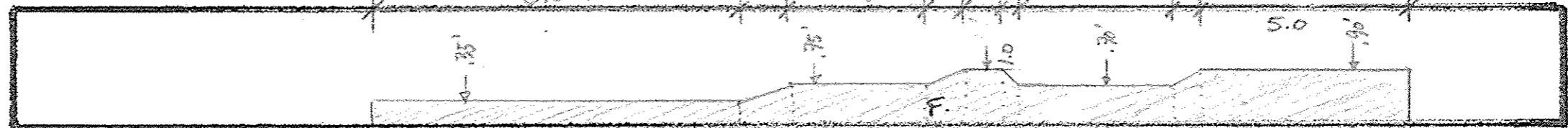
*David Carl Puzey* 2/8/16  
Expires 11/30/16

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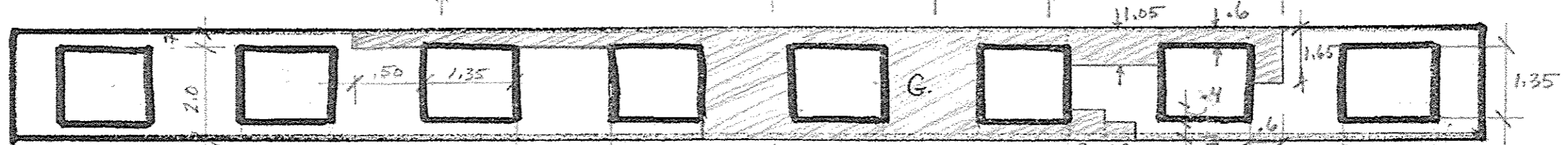
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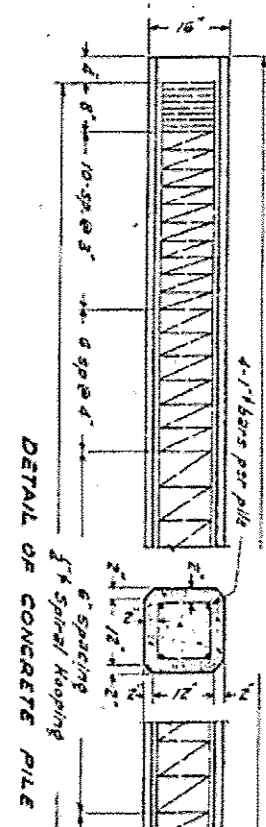
WEST ELEVATION  
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BOTTOM

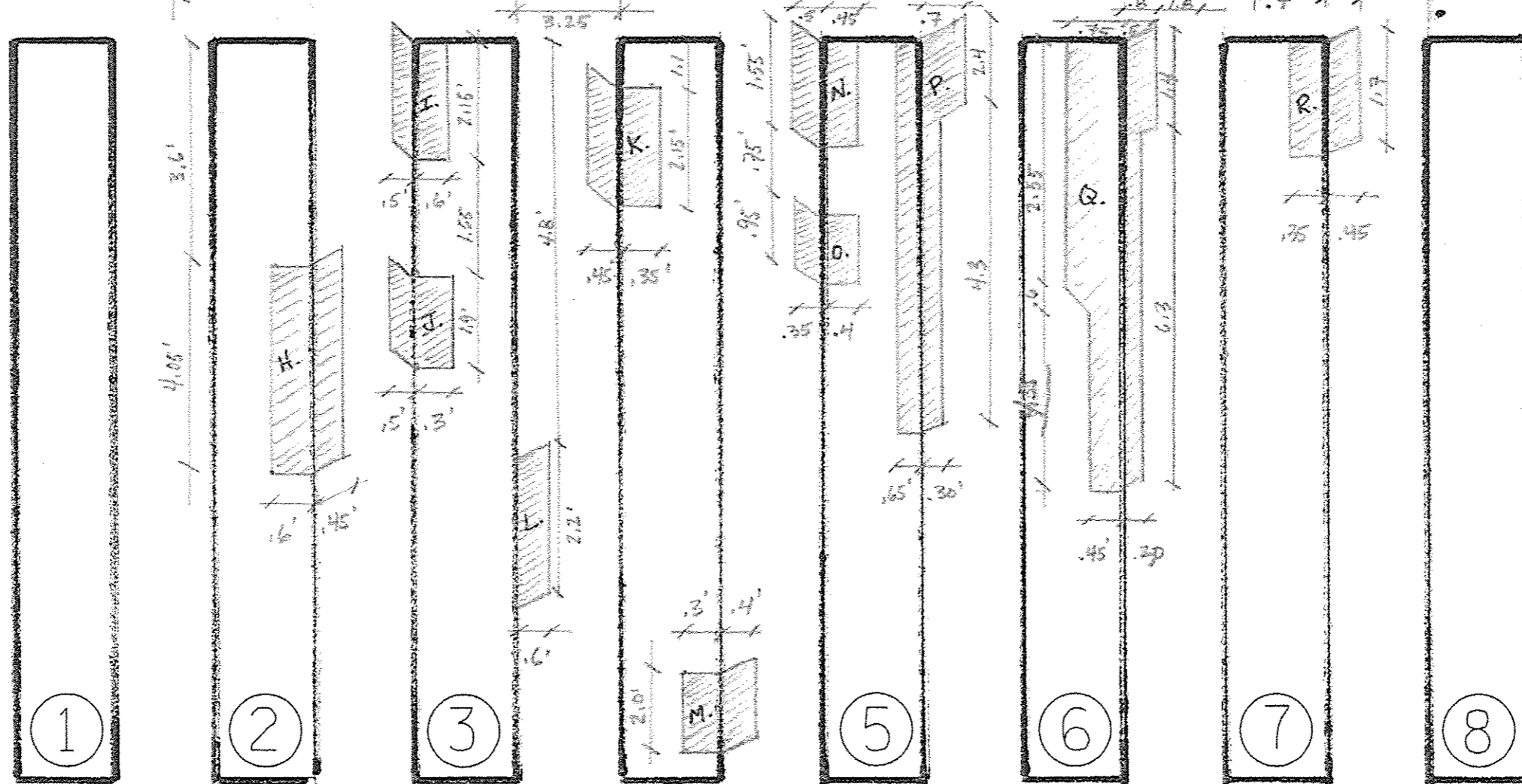


SEE NEXT PAGE  
FOR TOP PORTION  
OF THIS ELEVATION



TYPICAL DETAIL  
OF CONCRETE PILES

② TO ⑦

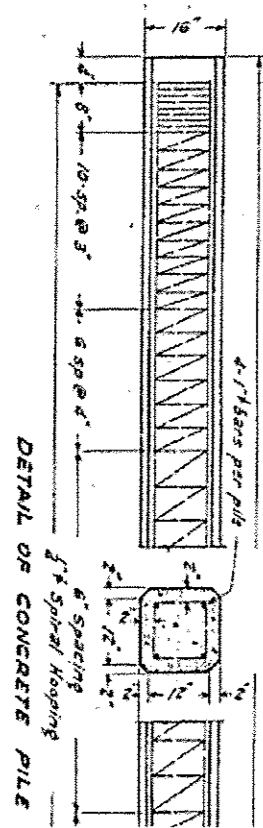
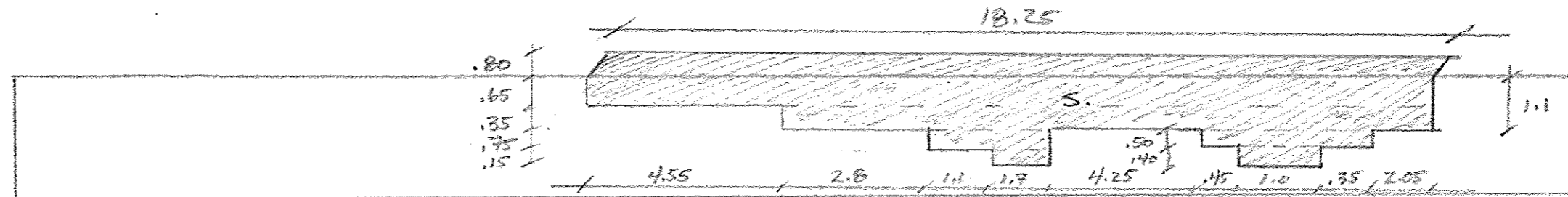


WEST ELEVATION (BENT 2)

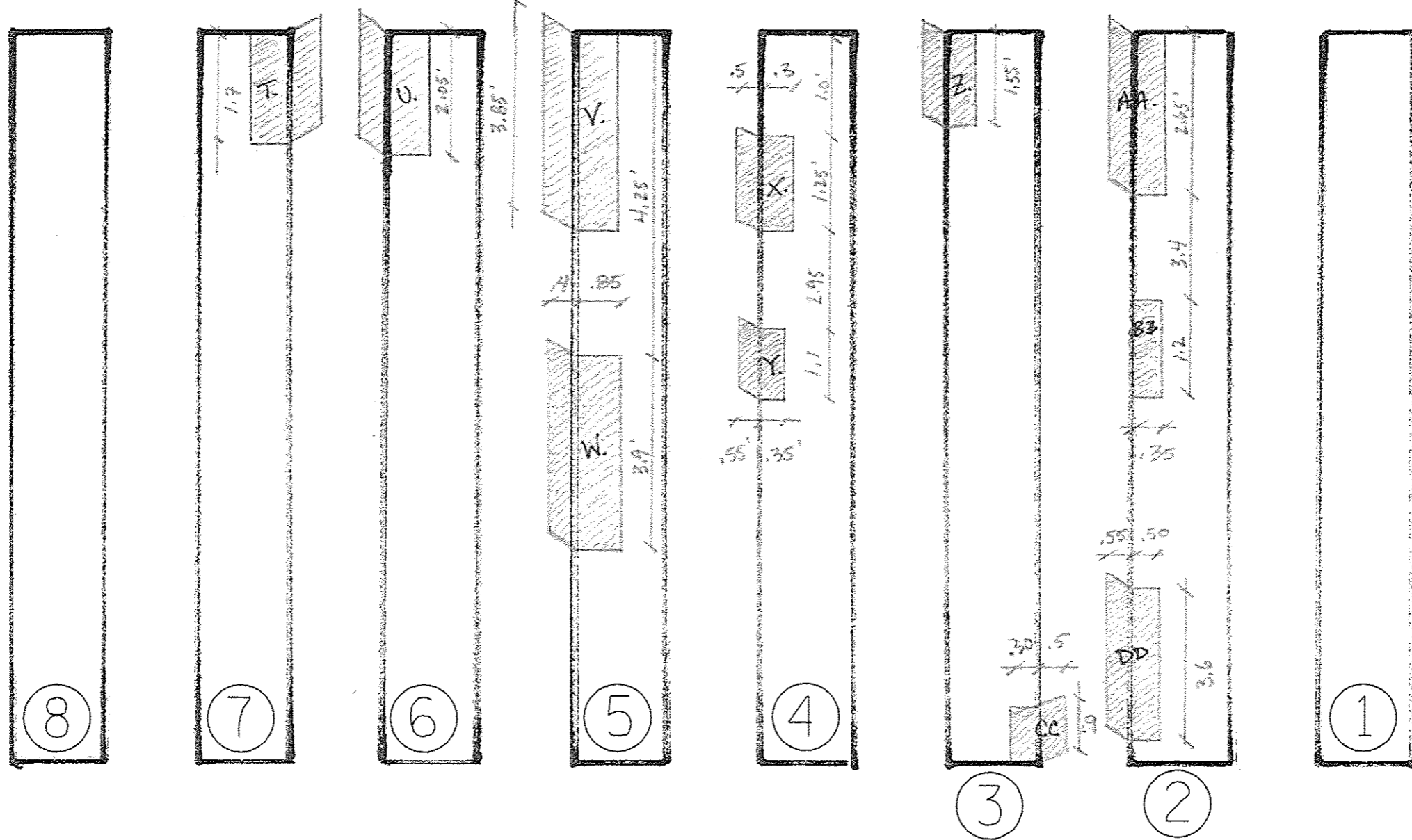
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TOP PORTION OF WEST ELEVATION



TYPICAL DETAIL OF CONCRETE PILES  
② TO ⑦



EAST ELEVATION (BENT 2)

ALL MEASUREMENTS ARE IN FEET

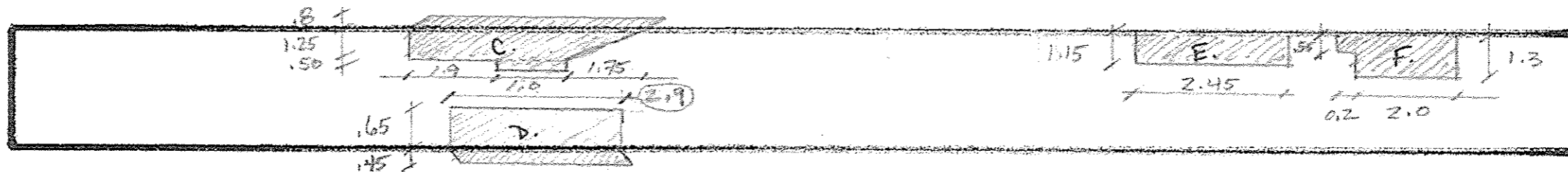
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					ILLINOIS FED. AID PROJECT									



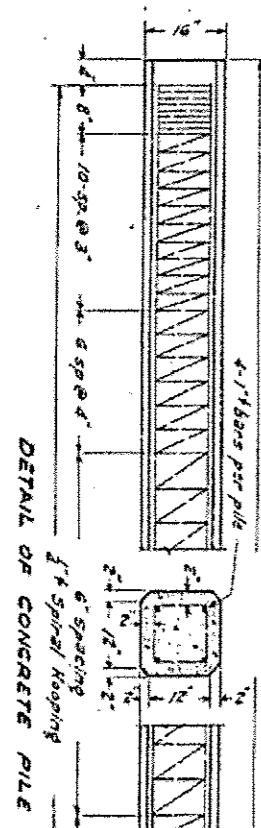
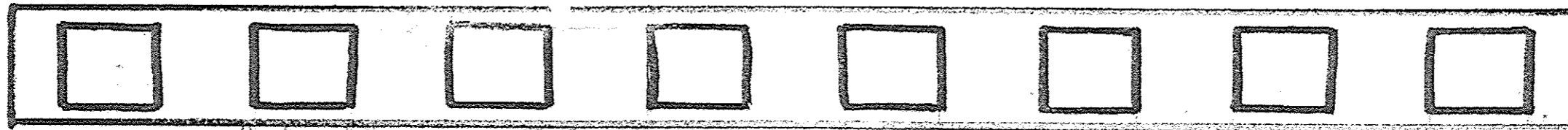
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(LOOKING WEST)



WEST ELEVATION  
(LOOKING EAST)

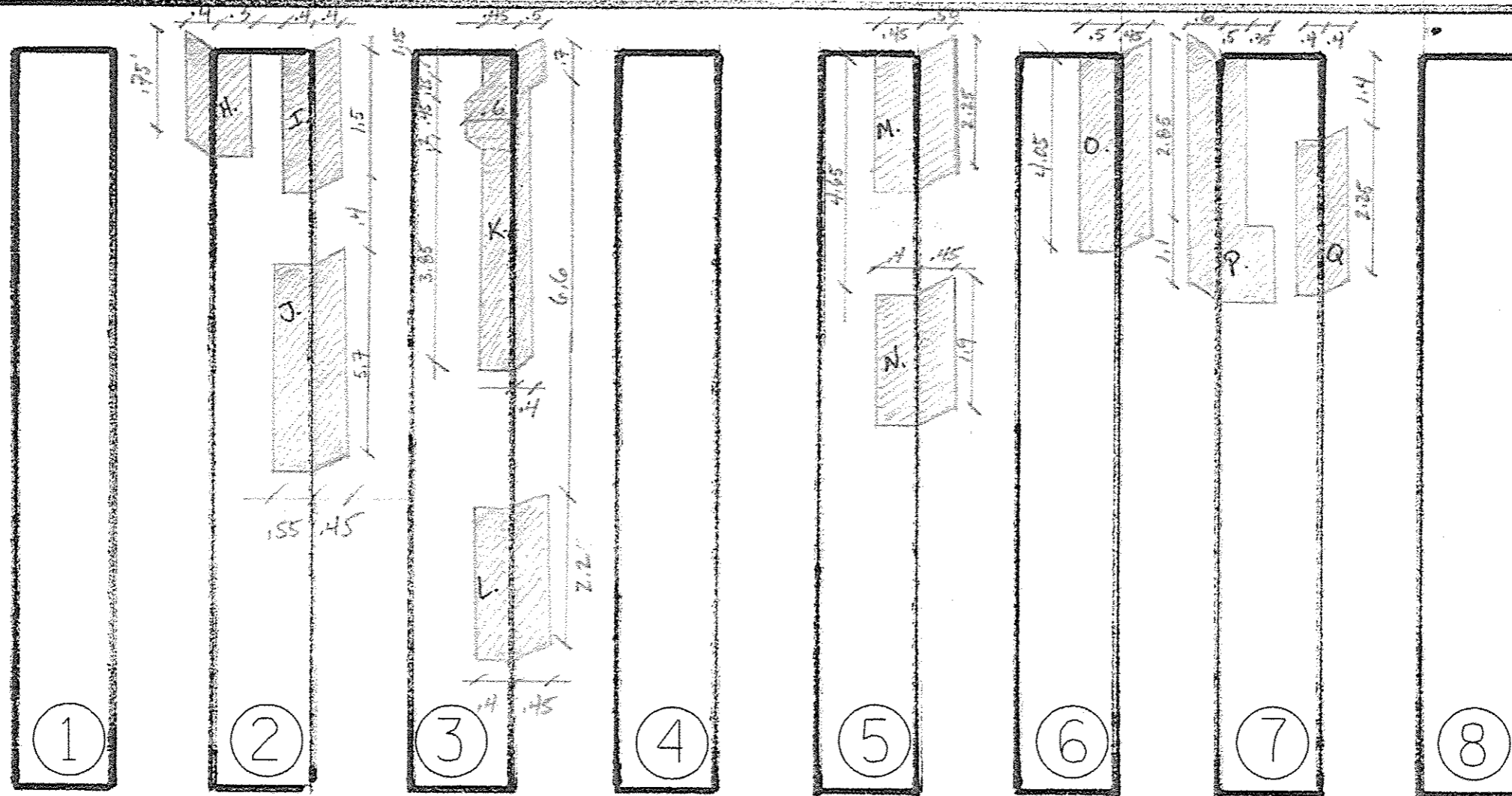


BOTTOM



TYPICAL DETAIL  
OF CONCRETE PILES

② TO ⑦

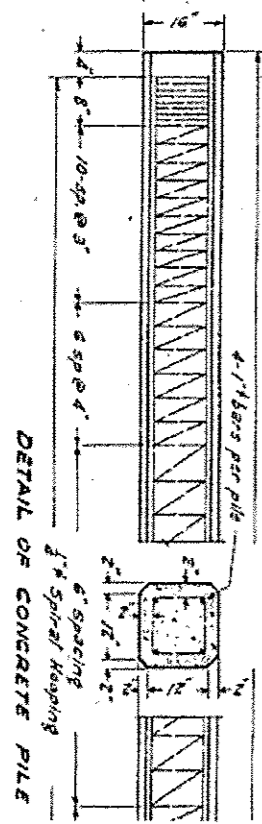


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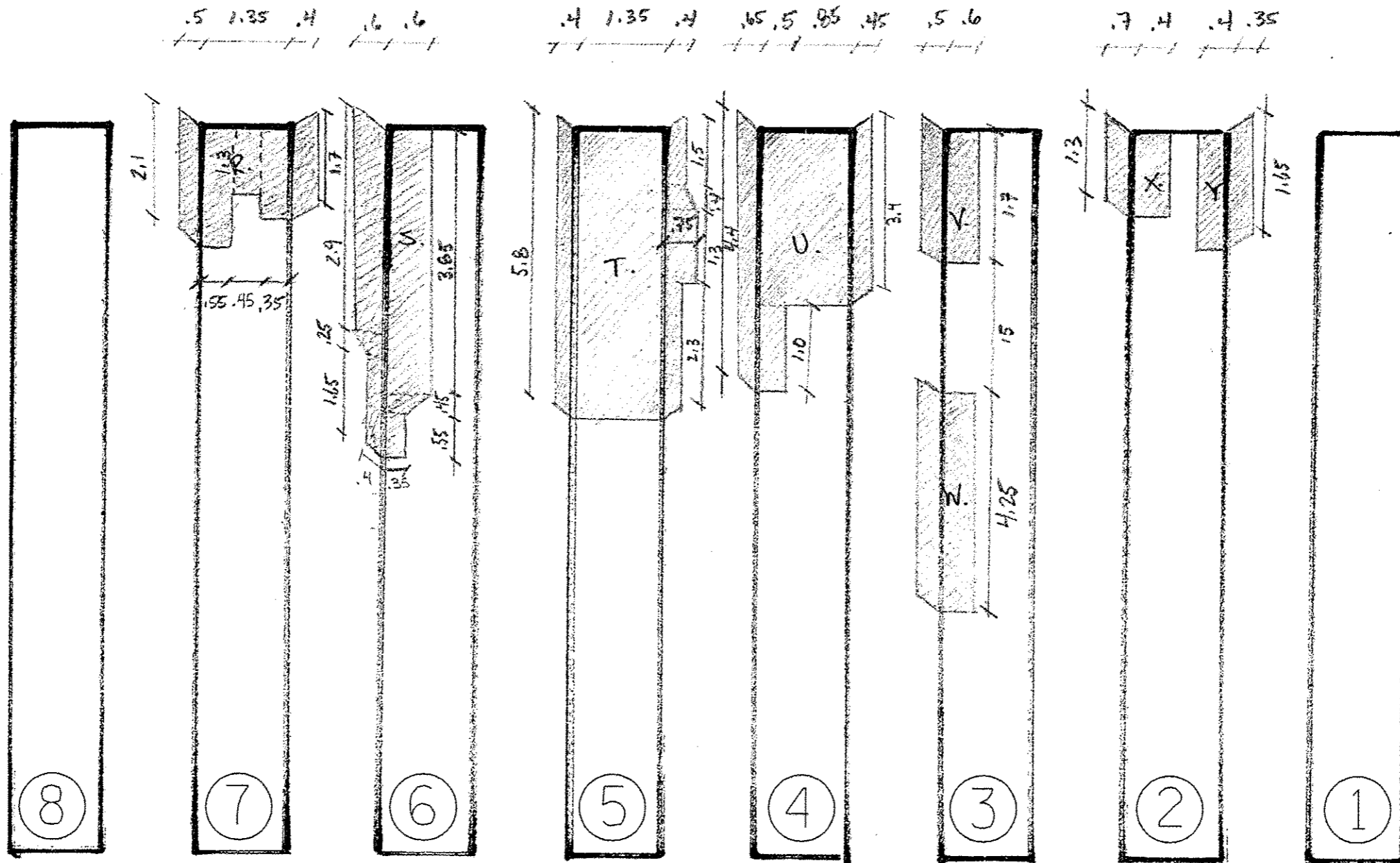




TYPICAL DETAIL OF CONCRETE PILES

② TO ⑦

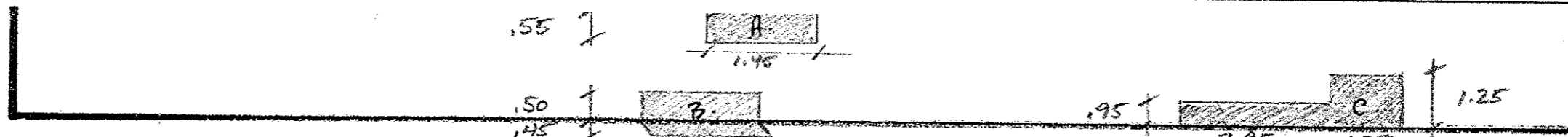
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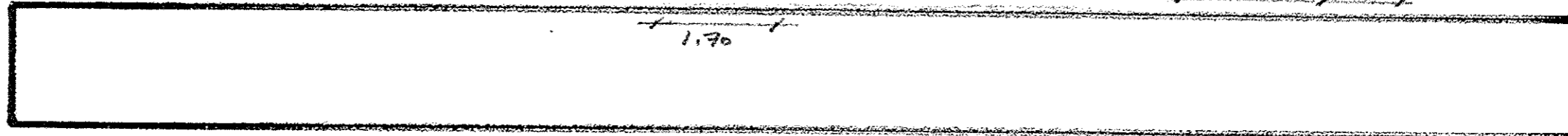
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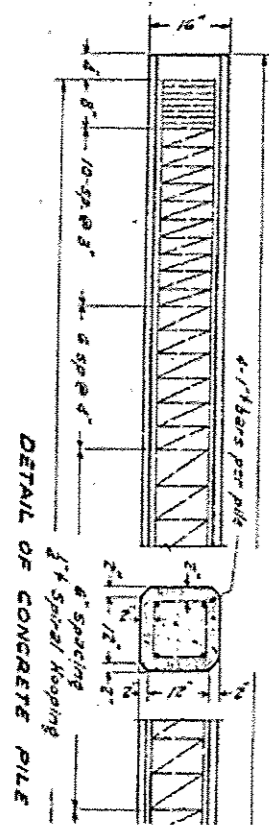
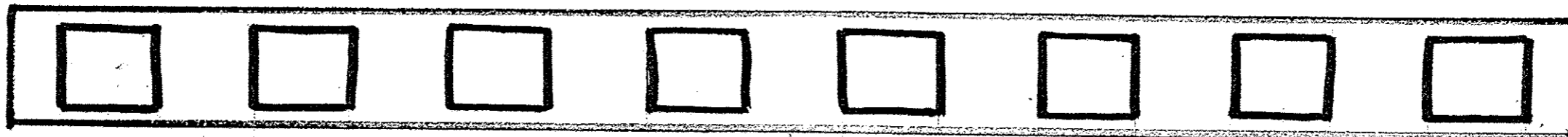
EAST ELEVATION  
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WEST ELEVATION  
(LOOKING EAST)

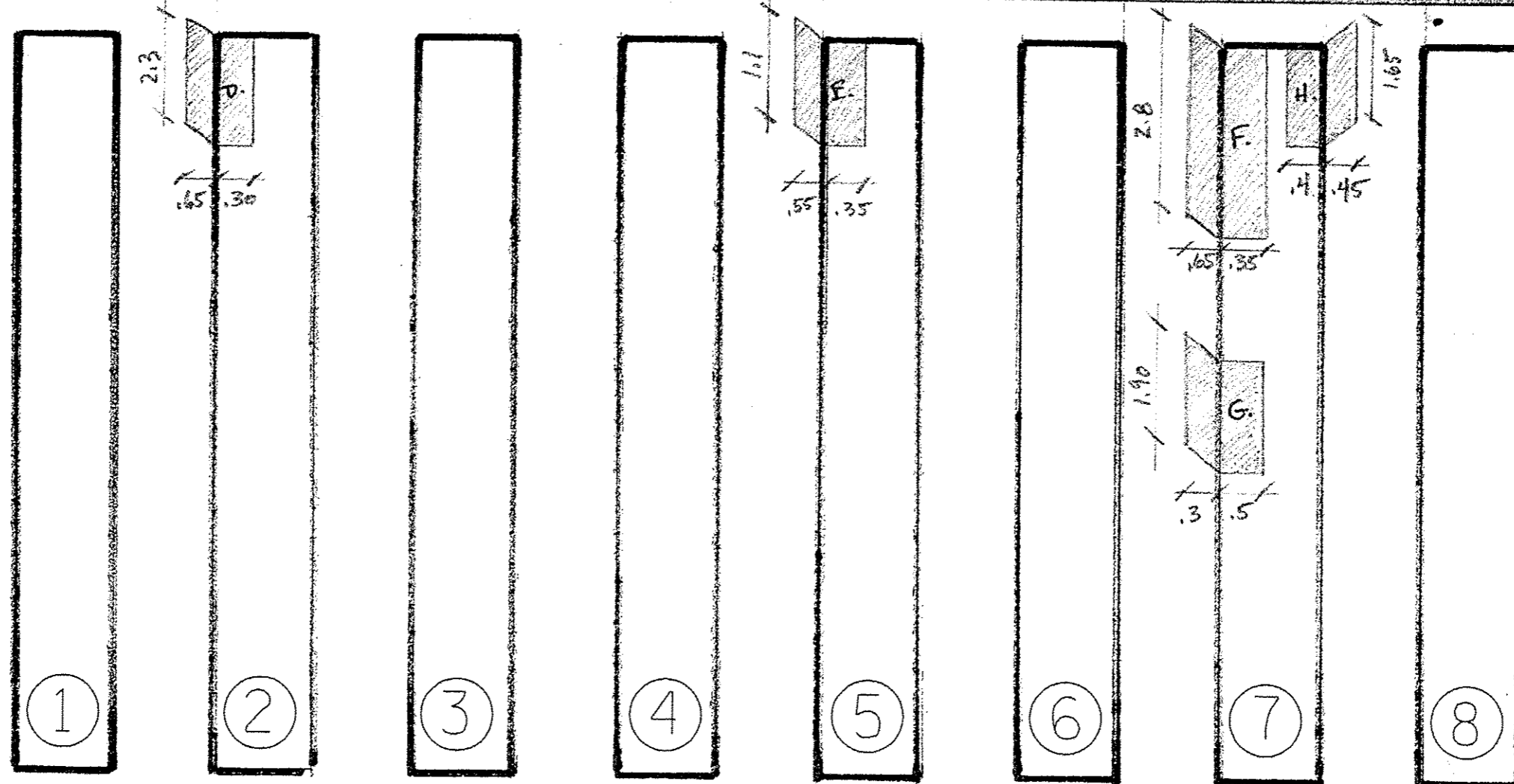


BOTTOM



TYPICAL DETAIL  
OF CONCRETE PILES

② TO ⑦



WEST ELEVATION (BENT 4)

ALL MEASUREMENTS ARE IN FEET

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2/8/2016	-	-	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

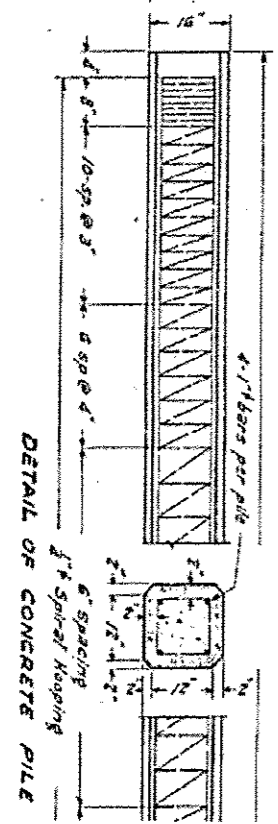
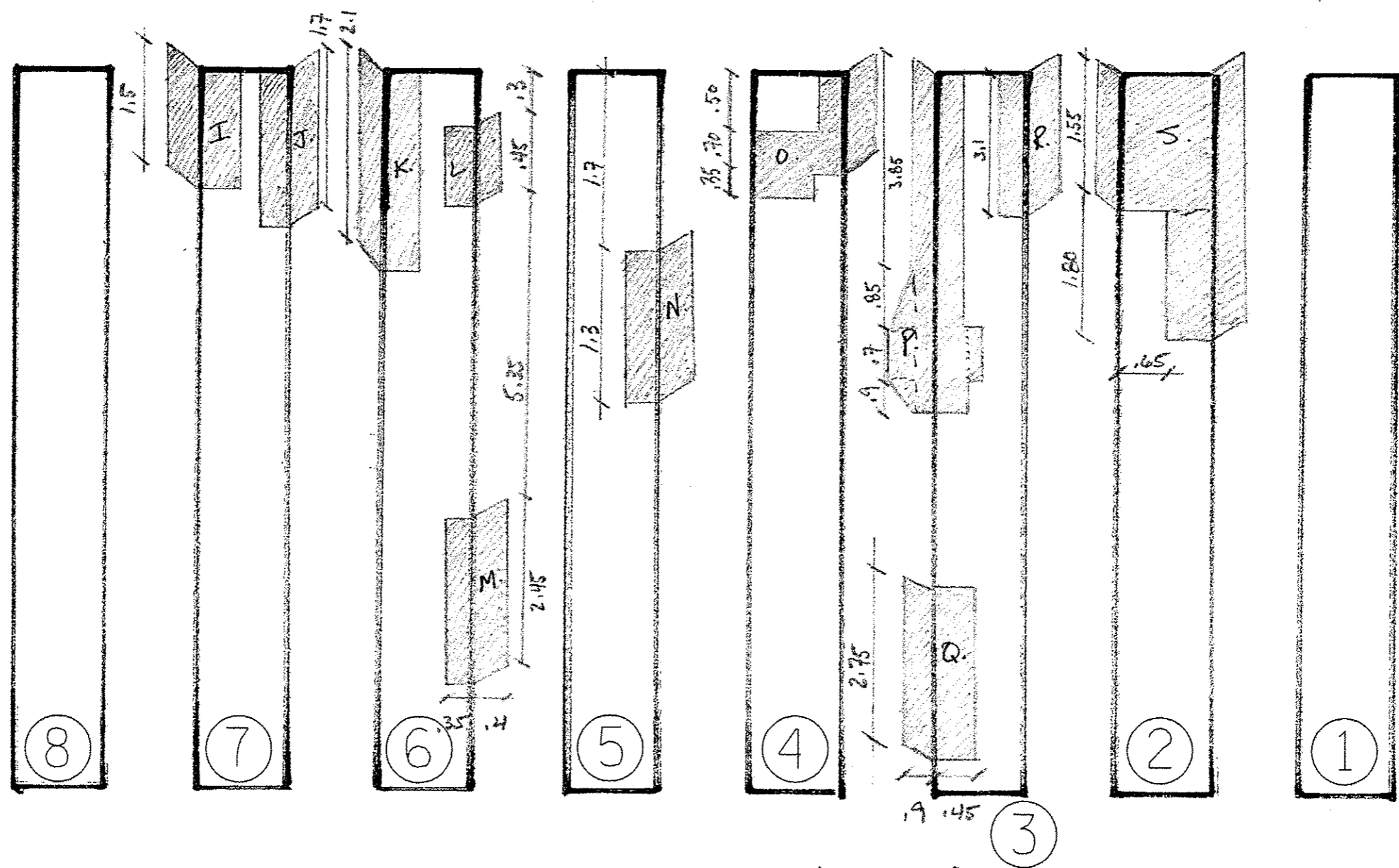
STRUCTURAL REPAIR OF CONCRETE  
DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	(123B)1-1	FULTON	13	10
CONTRACT NO. 68C75				

ILLINOIS FED. AID PROJECT

9.4 .45 .55 7.4 5.35      .3 .4      .9 4.5 3.5 5.4 .45 .45 .8 1.35 .55



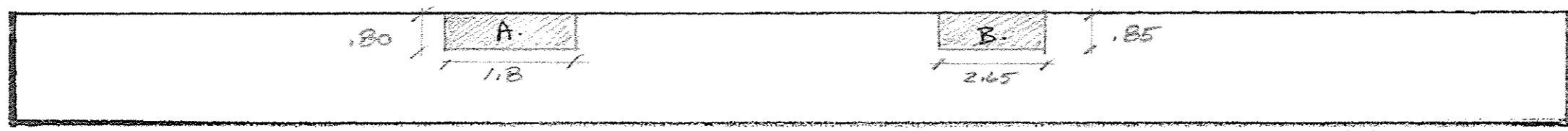
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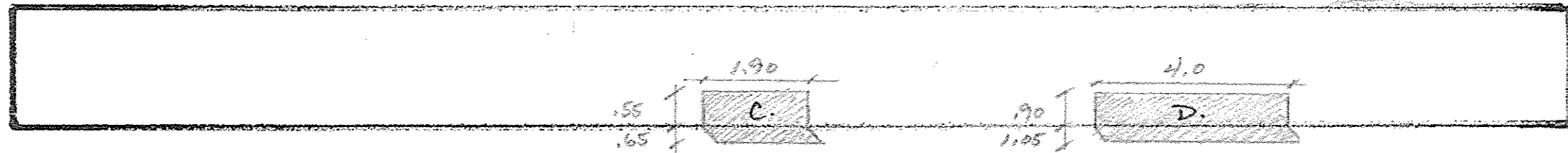
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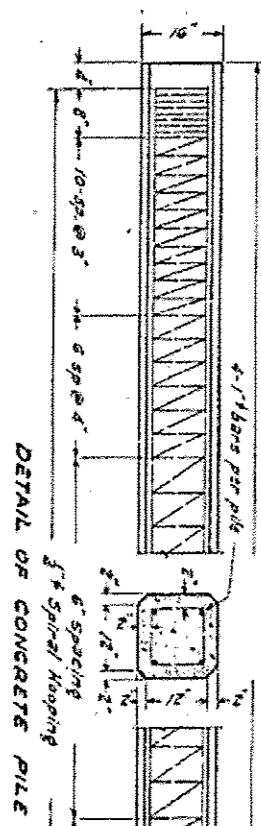
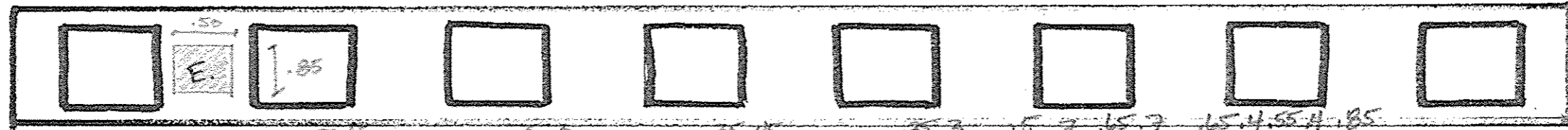
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WEST ELEVATION  
(LOOKING EAST)



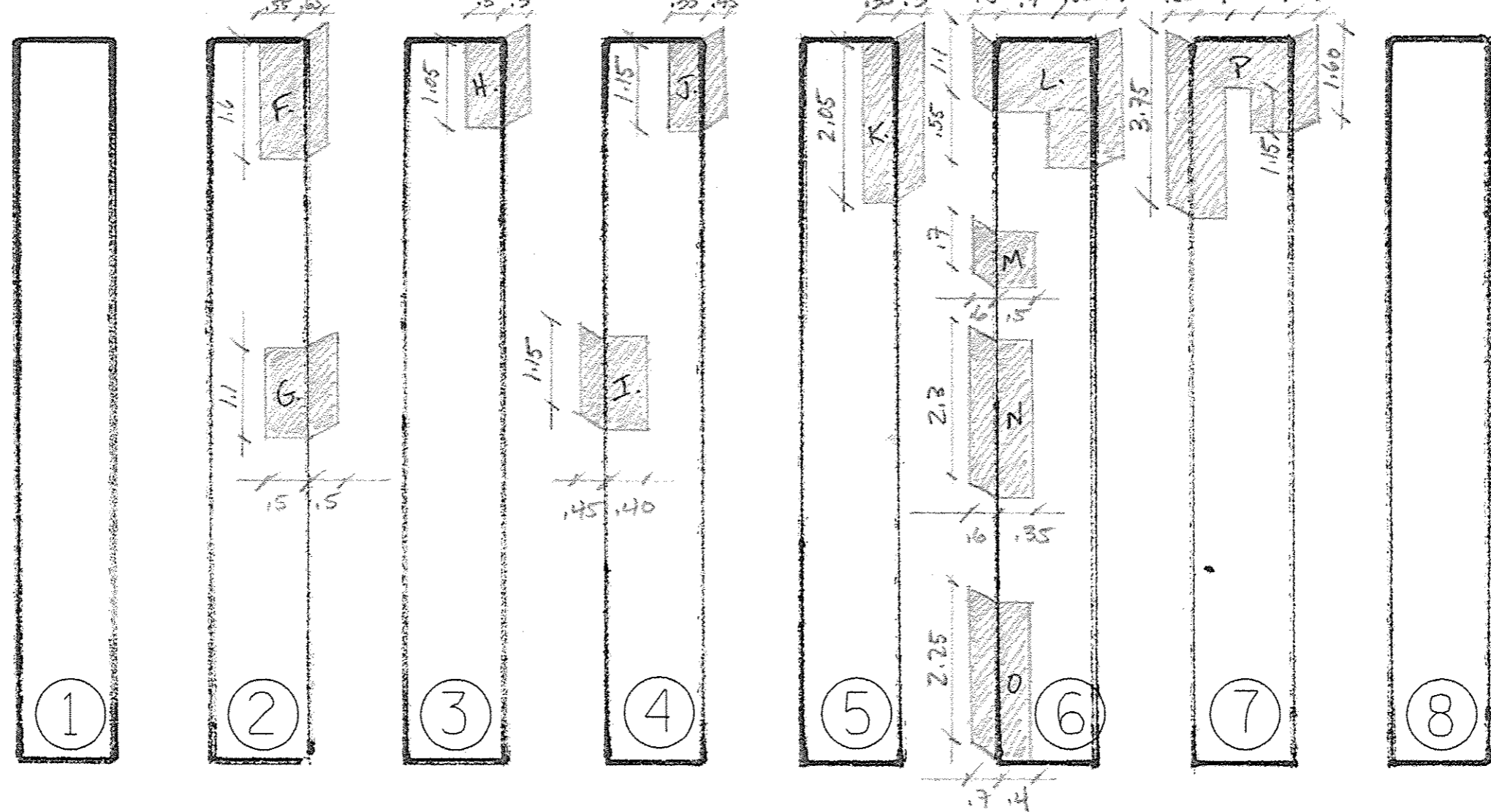
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TYPICAL DETAIL  
OF CONCRETE PILES

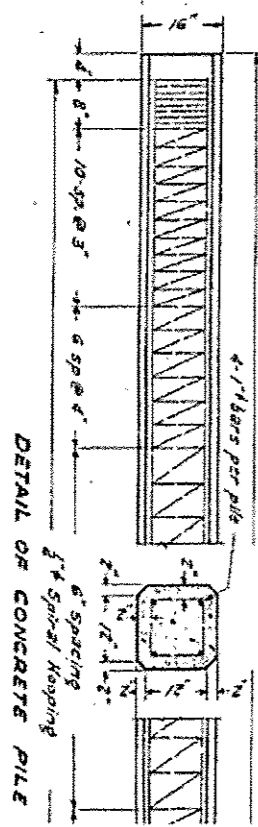
② TO ⑦

ALL MEASUREMENTS ARE IN FEET



WEST ELEVATION (BENT 5)

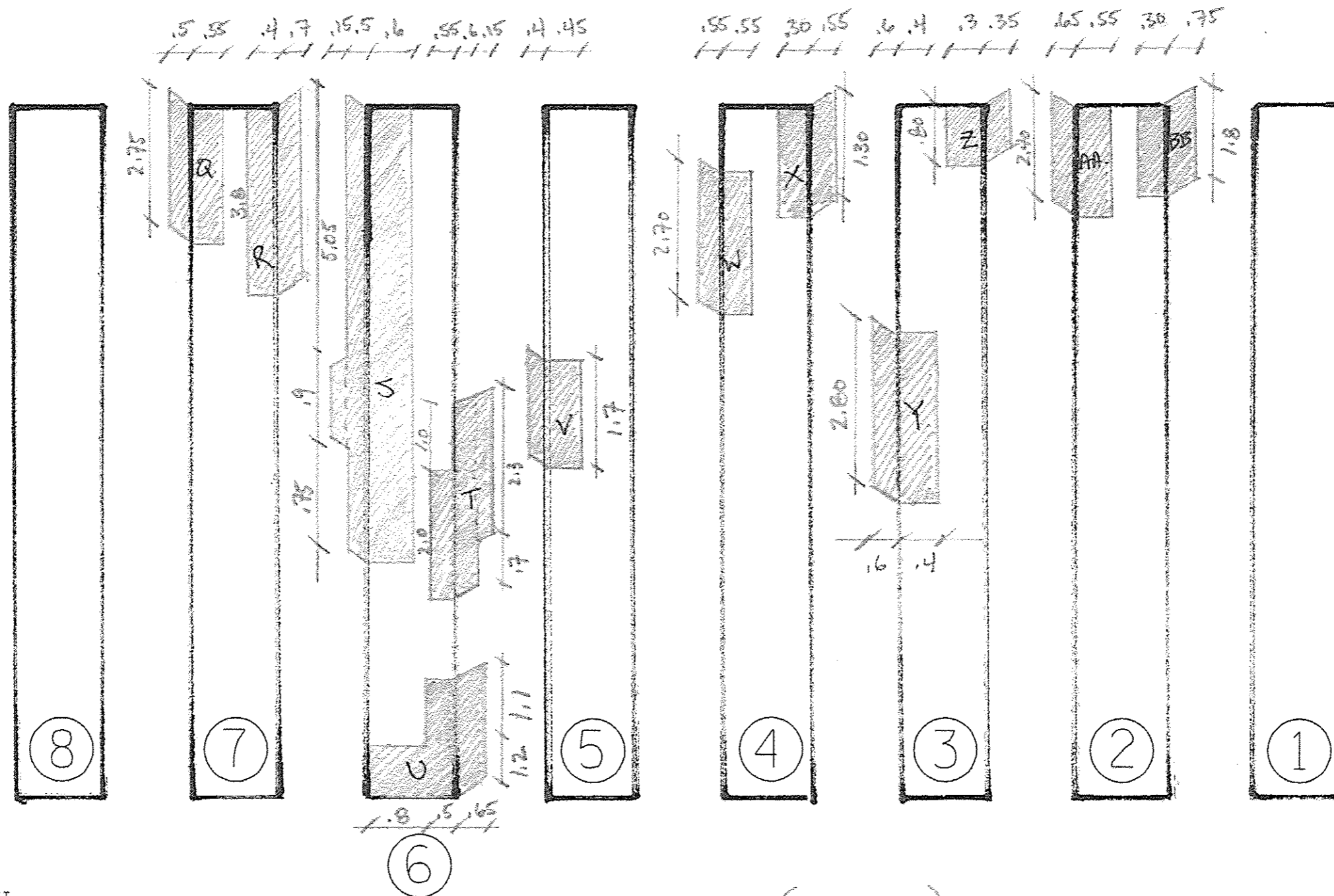
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Default									ILLINOIS FED. AID PROJECT				



TYPICAL DETAIL OF CONCRETE PILES

② TO ⑦

ALL MEASUREMENTS ARE IN FEET



EAST ELEVATION (BENT 5)

FILE NAME =	USER NAME = AUBREYGS	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURAL REPAIR OF CONCRETE DETAIL</b>				F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 2/8/2016								ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.				