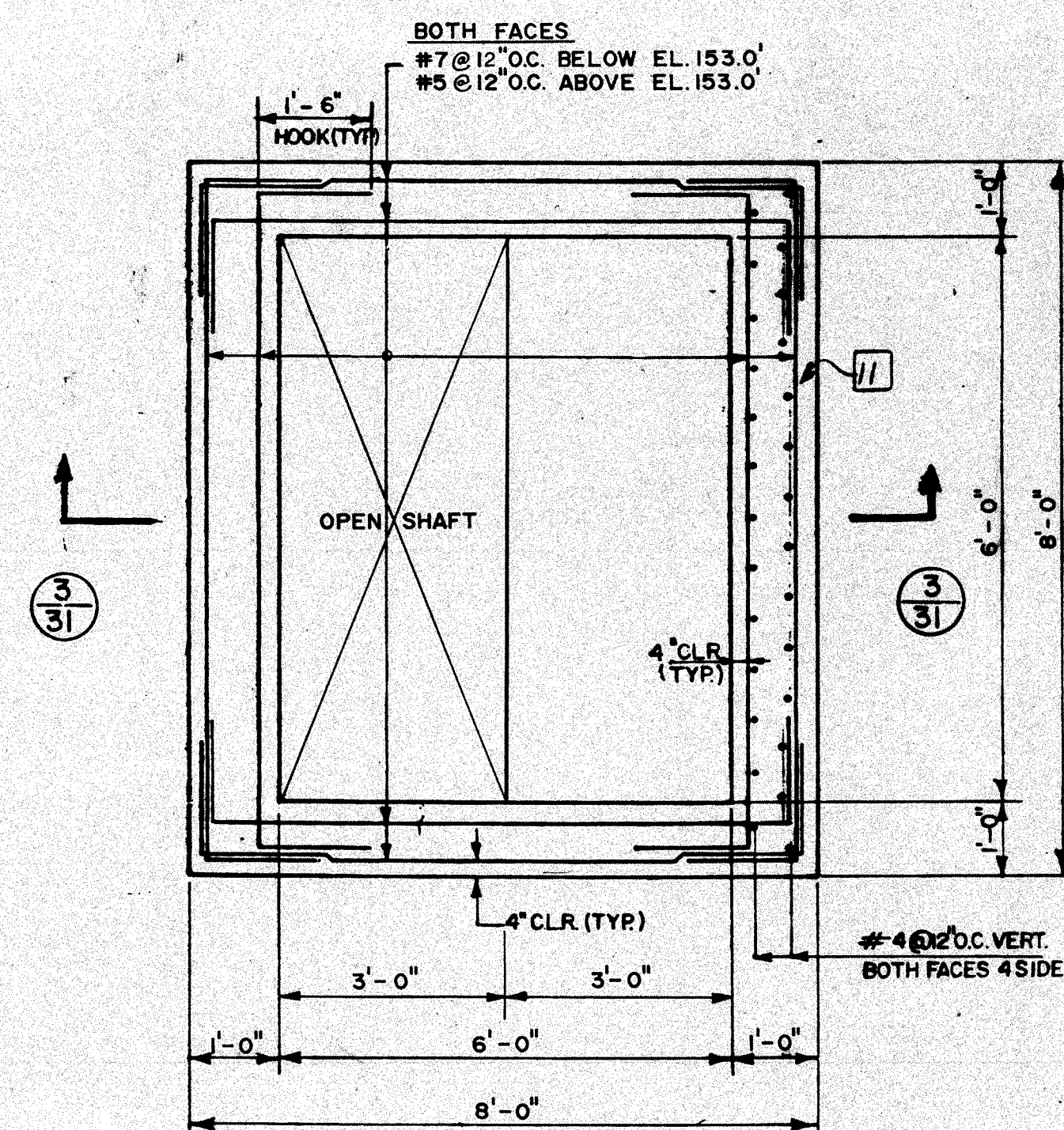
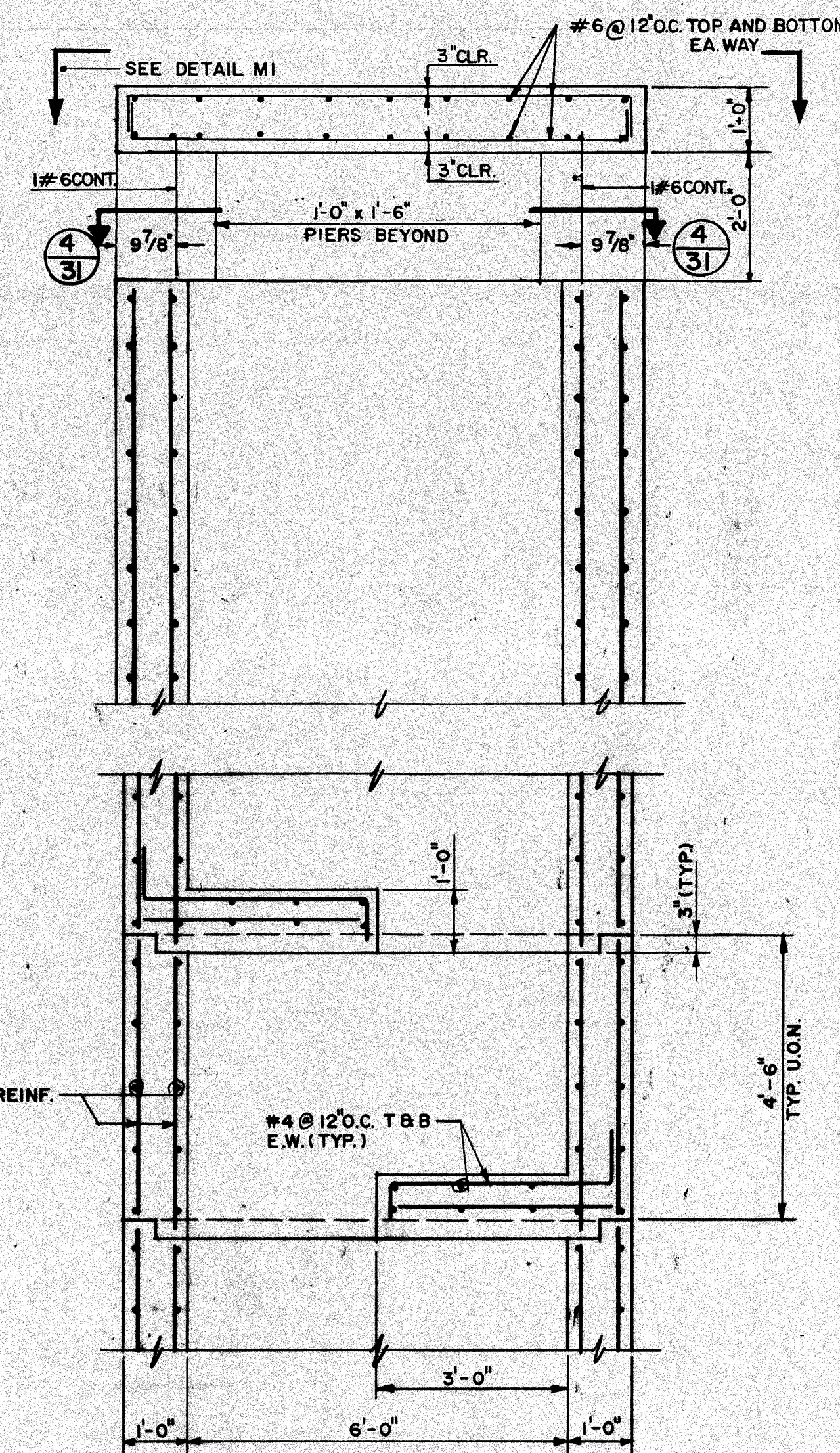
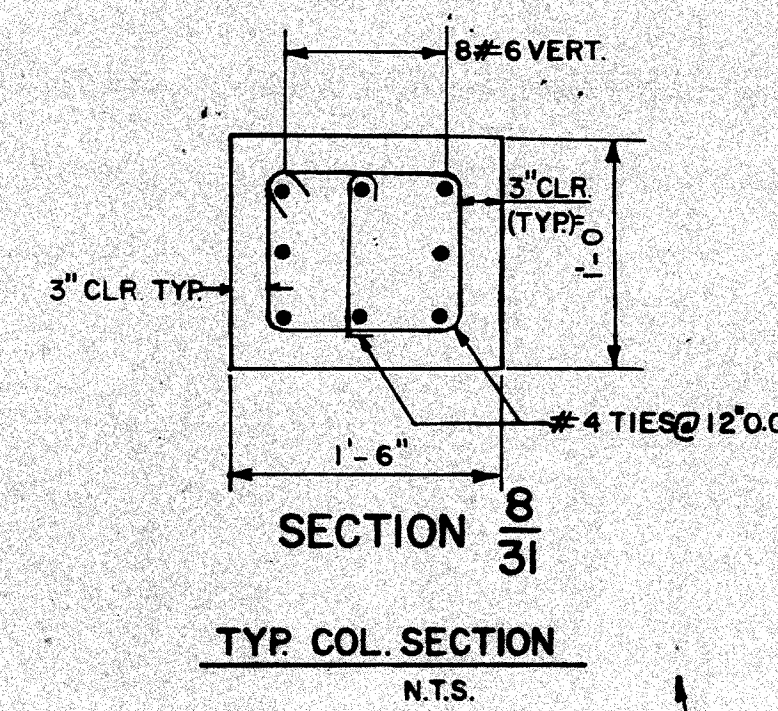




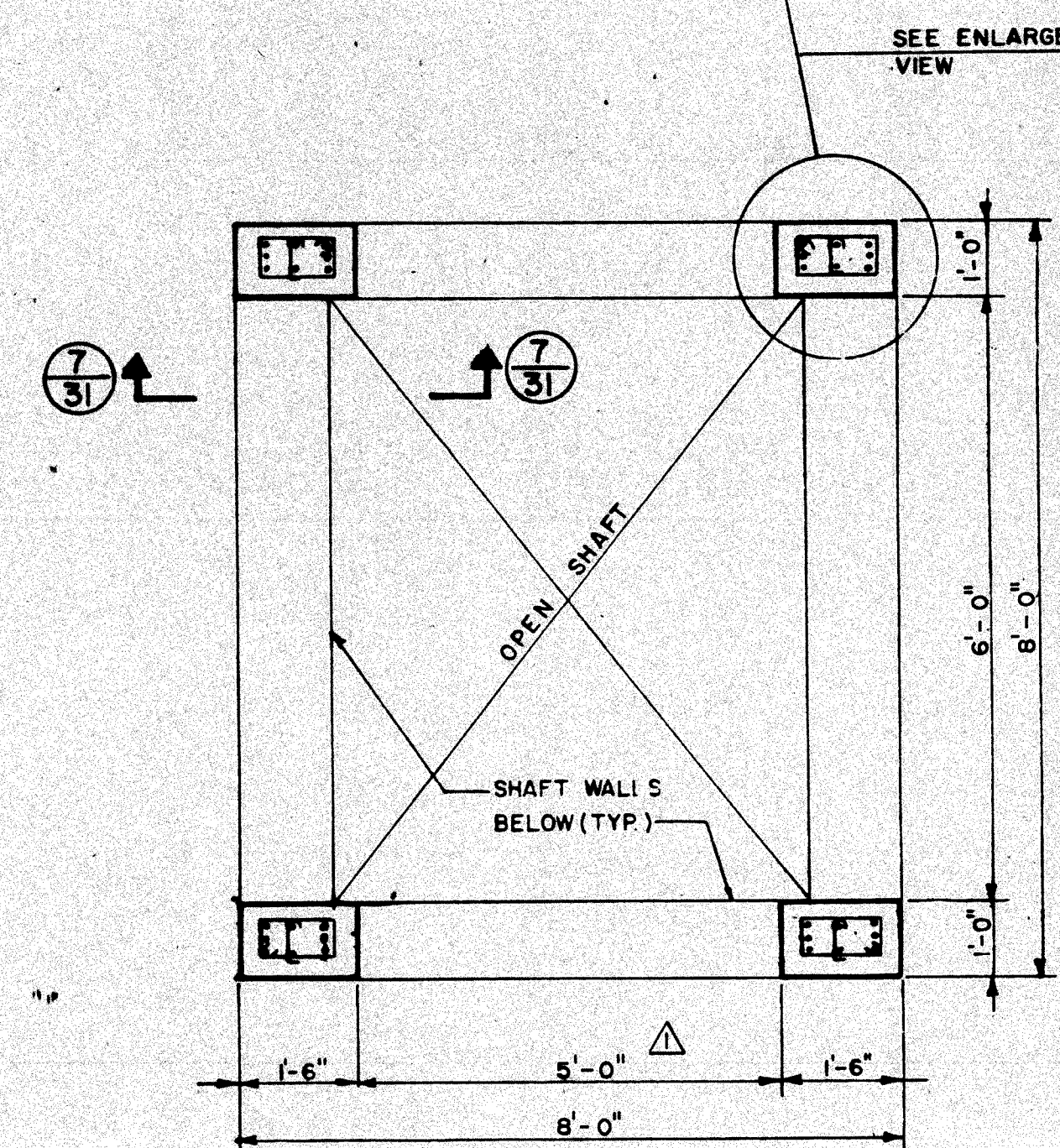
SECTION 2/28
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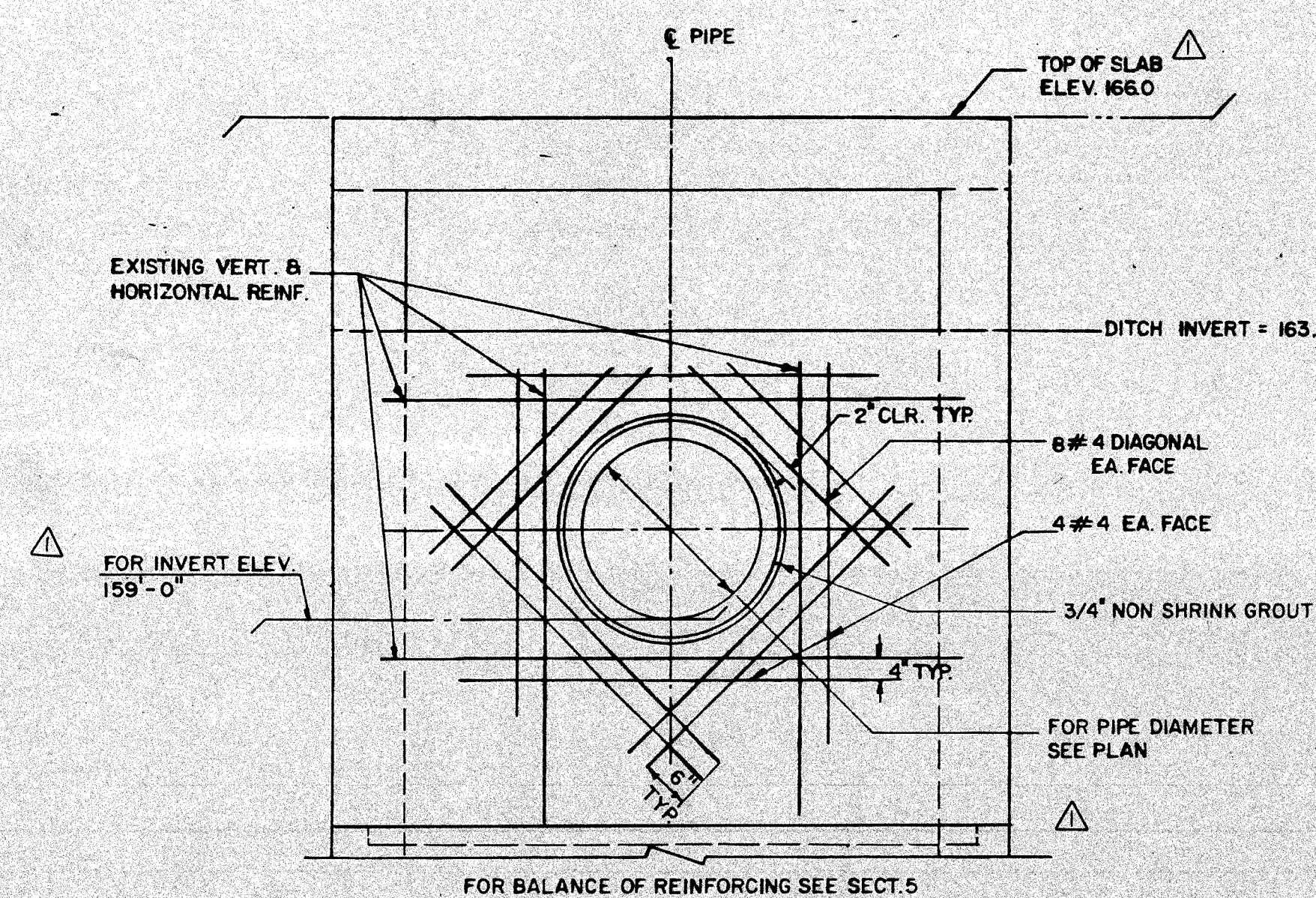
SECTION 3/31
SCALE: 1" = 2'



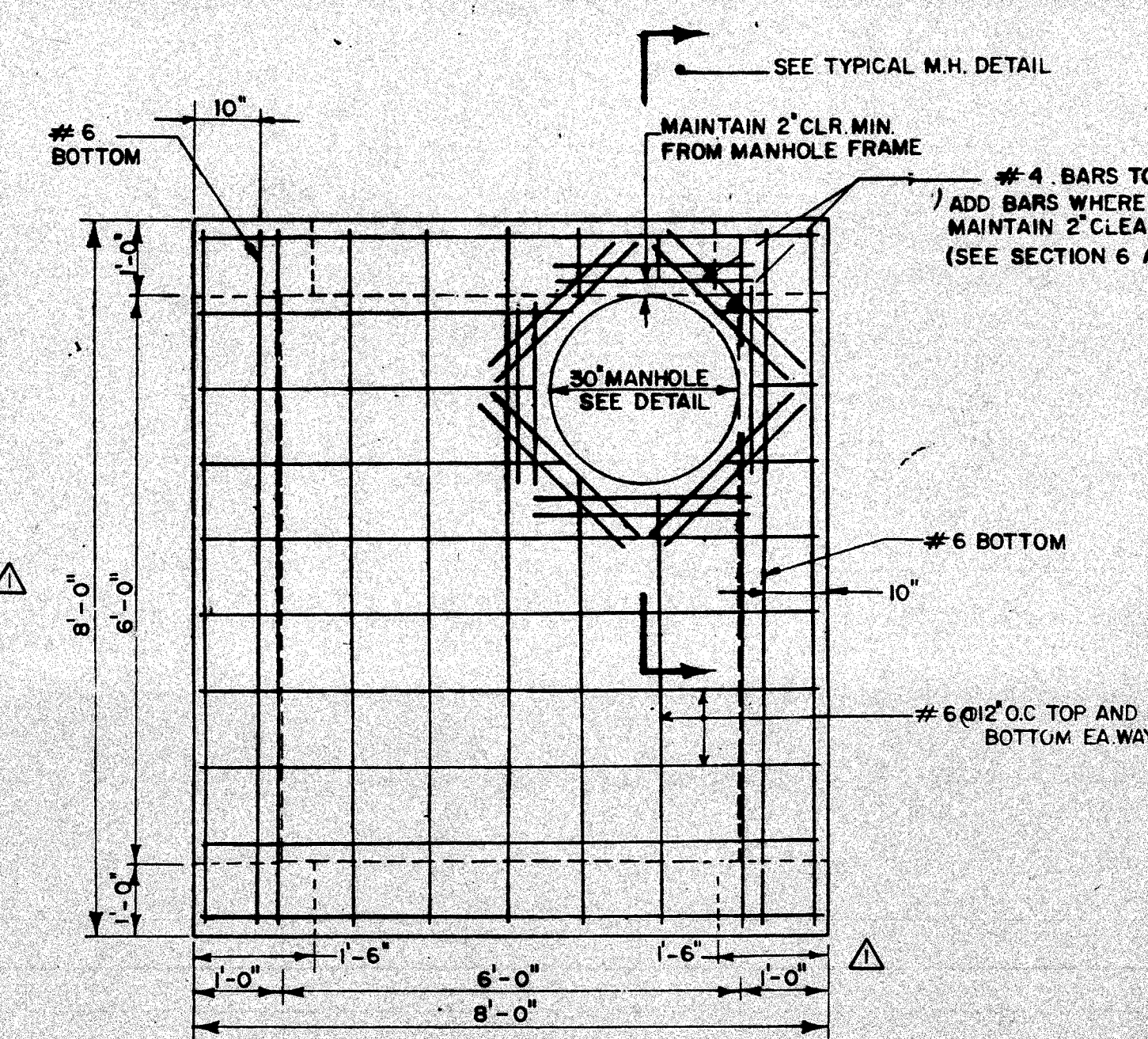
SECTION 8/31
TYP. COL. SECTION
N.T.S.



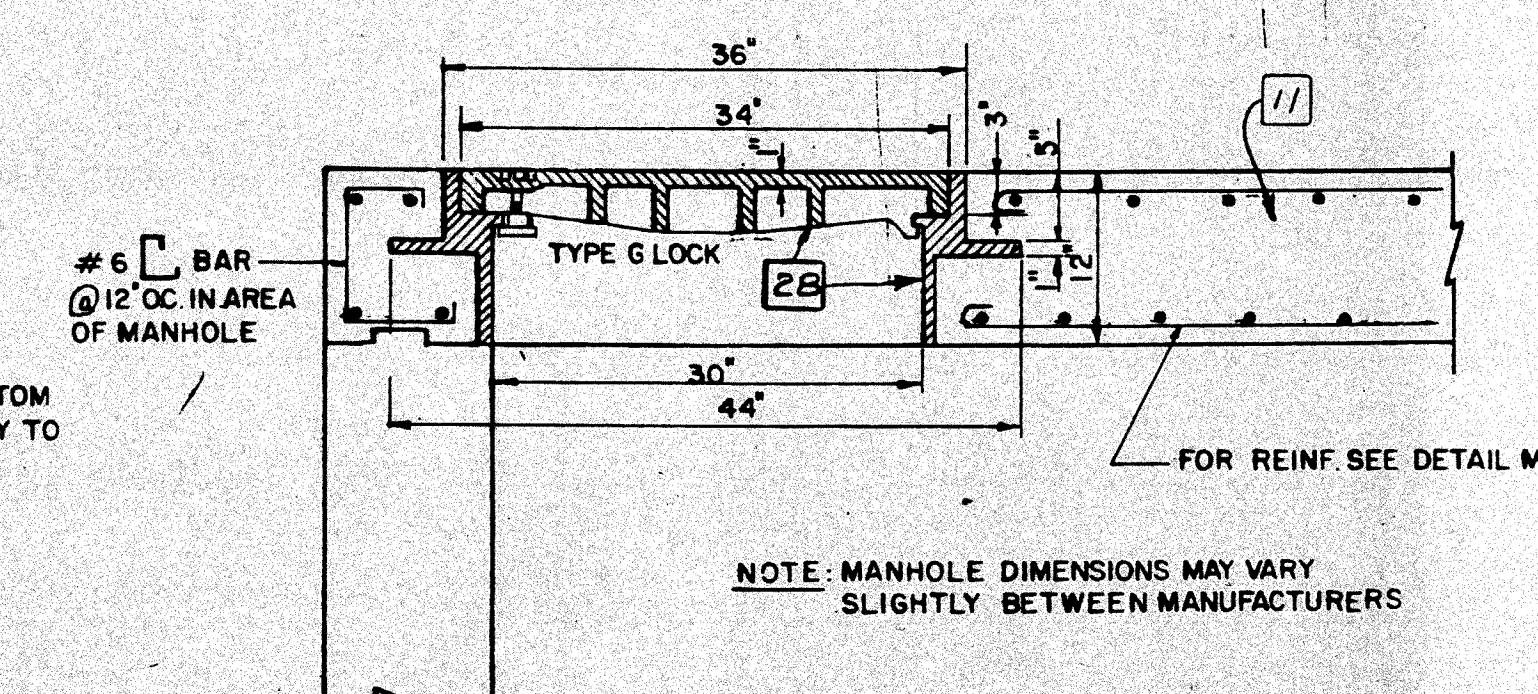
SECTION 4/31
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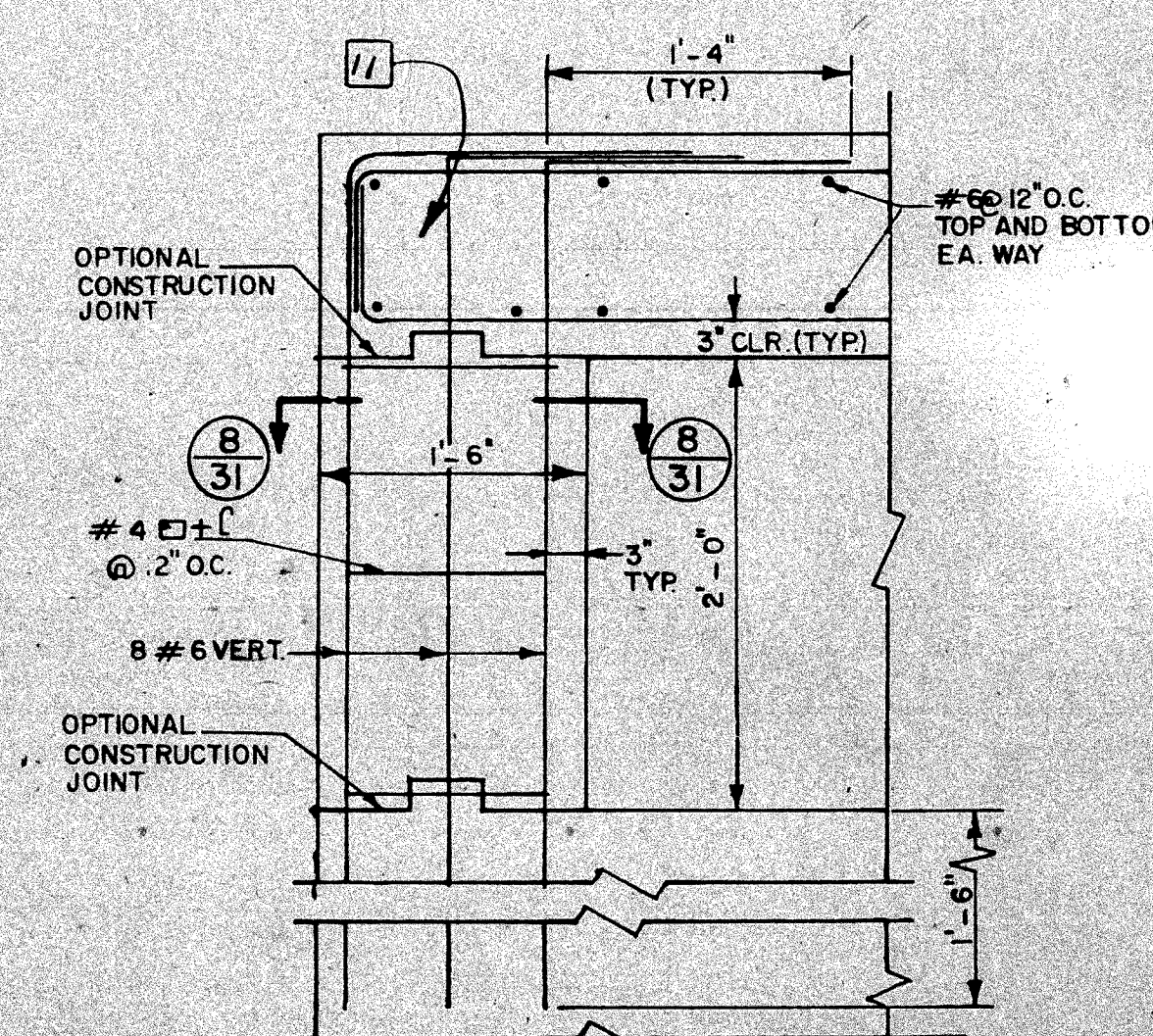
SECTION 6/28
SCALE: 1" = 2'



DETAIL M1
SCALE: 1" = 2'



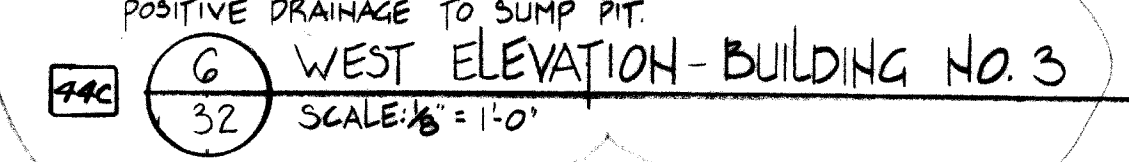
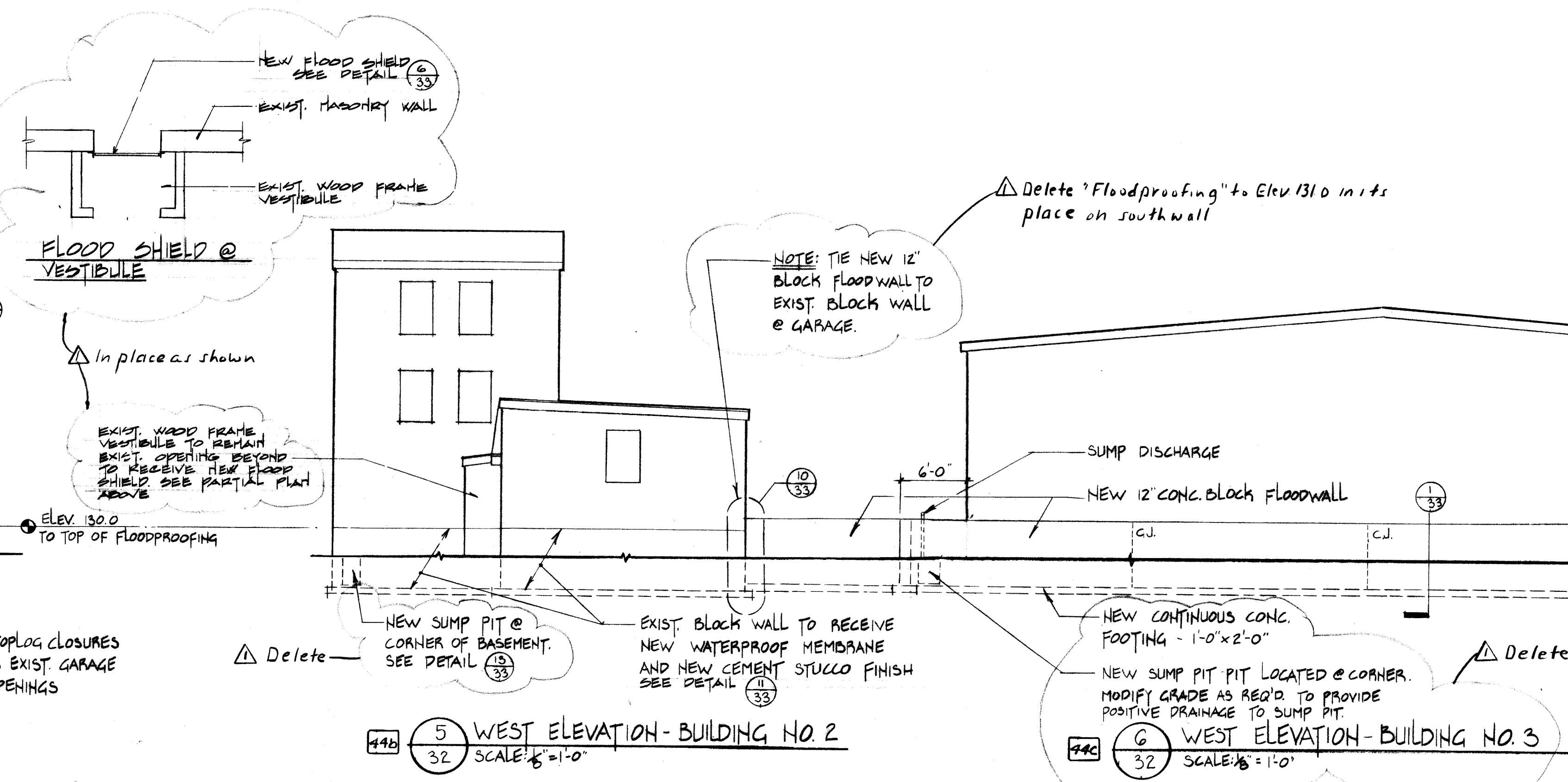
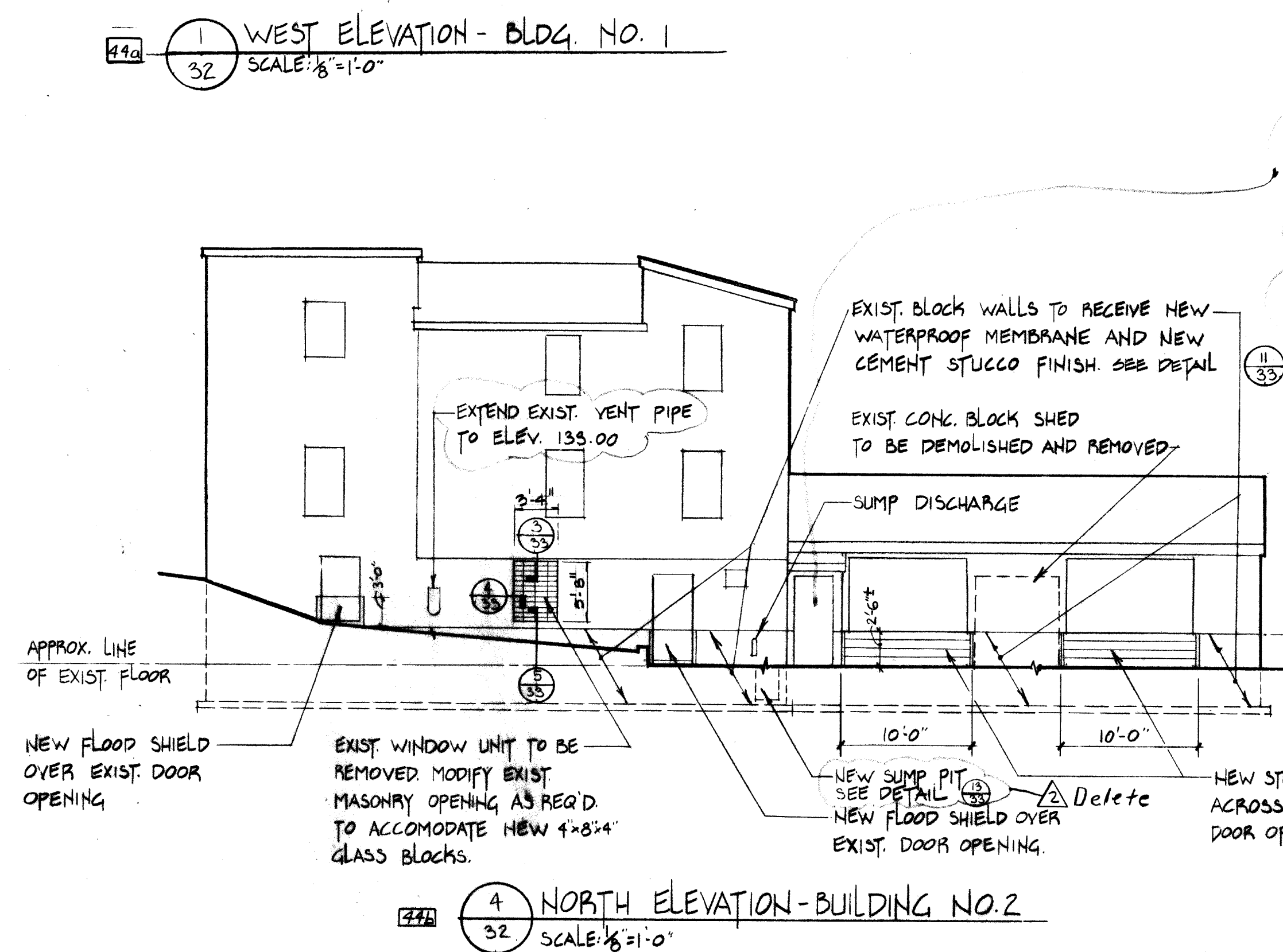
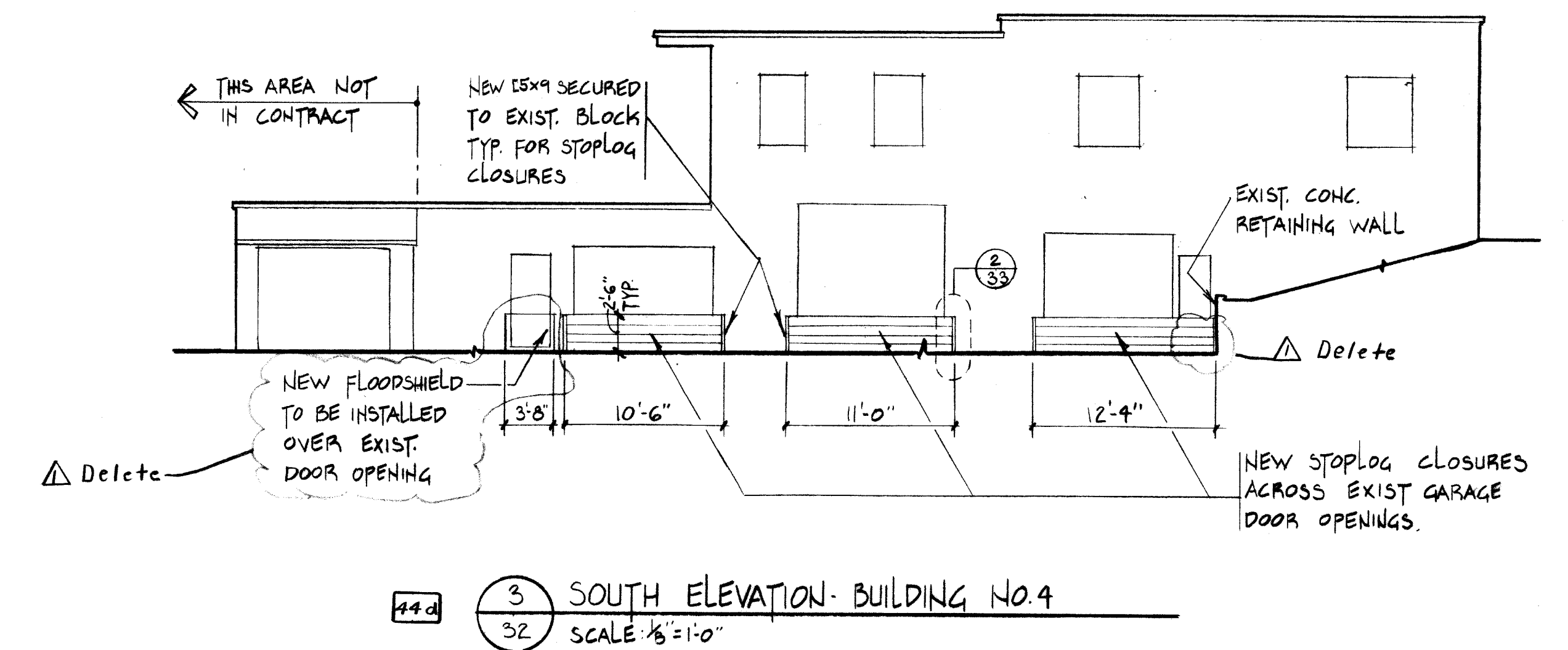
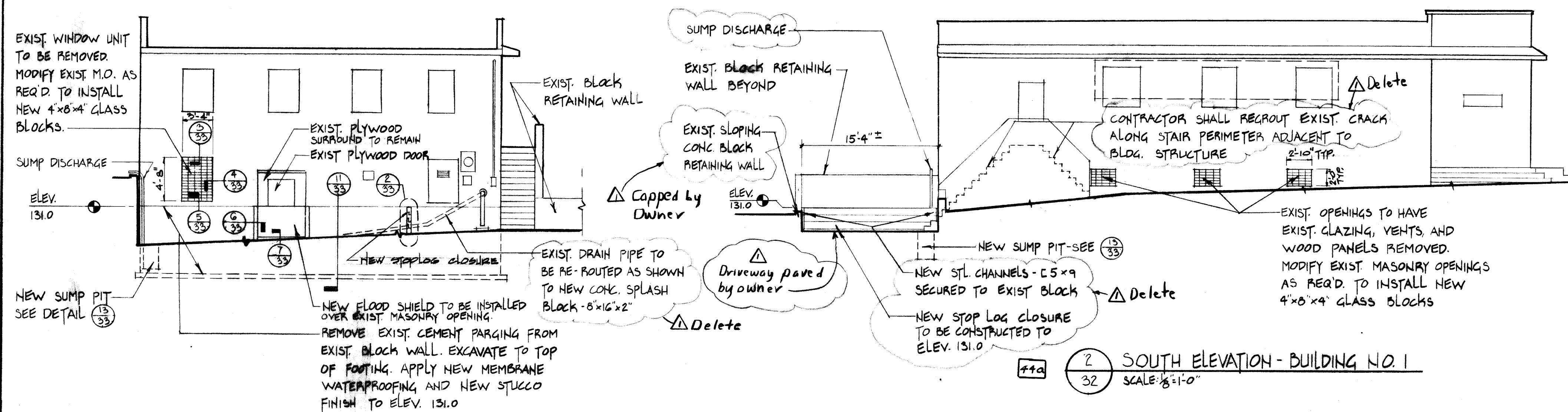
TYPICAL MANHOLE DETAIL
N.T.S.



SECTION 7/31
N.T.S.

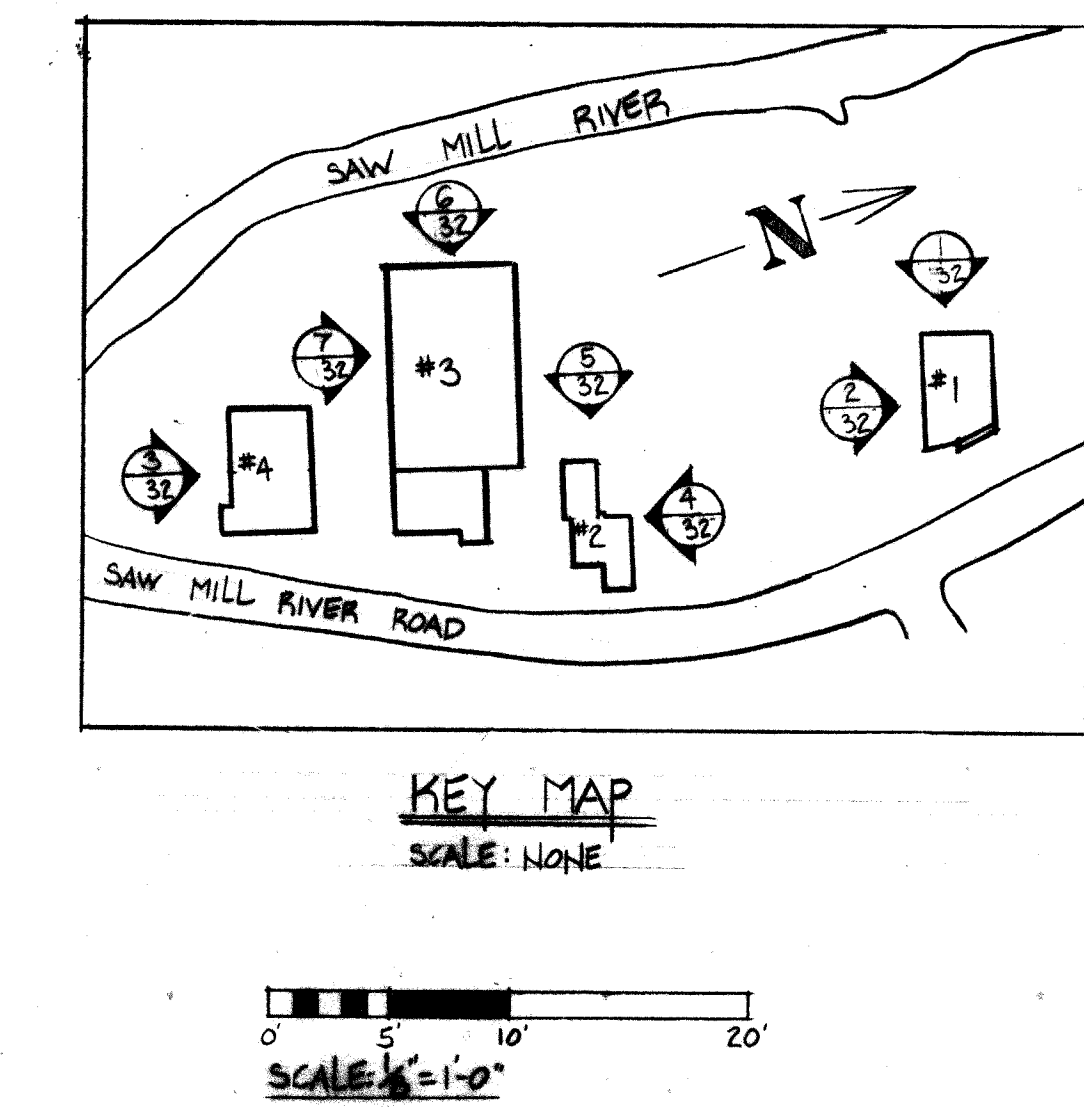
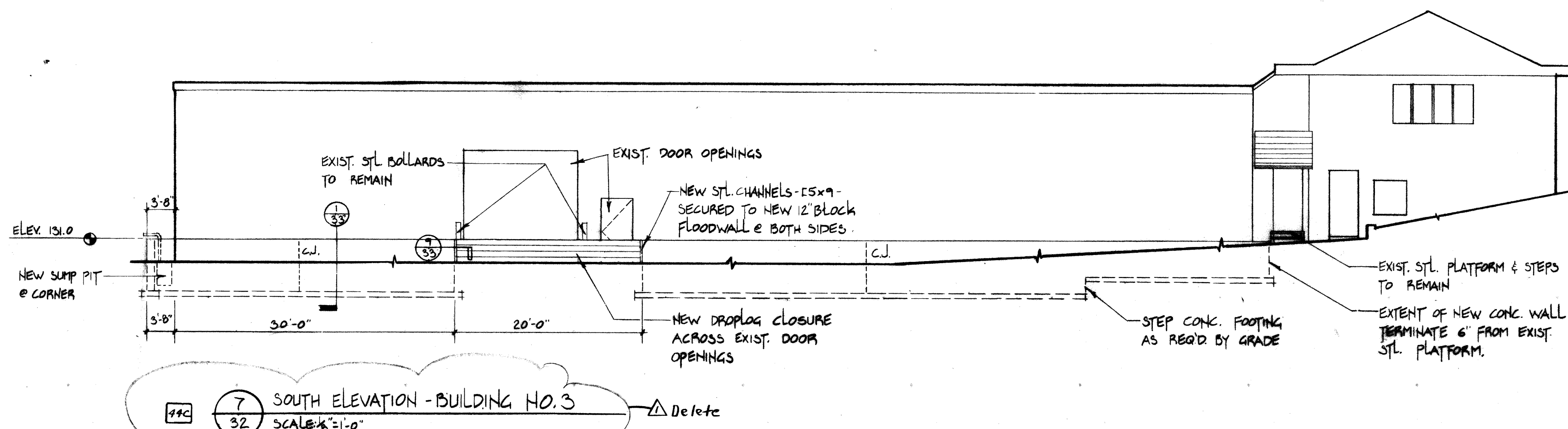
DATE: 3/11/90
DRAWING OF WORK AS BUILT

REVISION	DATE	DESCRIPTION	BY
1	3/11/90	Value Engineering Sheet 31A added - As built	D.S.
2	10-6-88	VALUE ENGINEERING PROPOSAL	M.G.M.
PREPARED BY	M.G. McLAREN, P.C.	CONSULTING ENGINEERS	CONTRACTOR
10 PINE CREST RD. VALLEY COTTAGE, NY 10988			ECCO III ENTERPRISES YONKERS, NEW YORK
DEPARTMENT OF THE ARMY NEW YORK DISTRICT, CORPS OF ENGINEERS NEW YORK, NEW YORK			
SAW MILL RIVER, NEW YORK			
VALUE ENGINEERING PROPOSAL ARDSLEY FLOOD CONTROL PROJECT BLOW-OFF TUNNEL DETAILS & SECTIONS			
DRAWN BY:	MEF, W.Y.C.		
CHECKED BY:	M.G.M.		
DESIGNED BY:	A.I.R.		
REVIEWED BY:	SECTION CHIEF	ARDSLEY	NEW YORK
SUBMITTED:			
APPROVED:			
ACT. CHIEF, DESIGN BRANCH			CHIEF, ENGINEERING DIVISION
COLONEL C.E. DISTRICT ENGINEER			SCALE: AS SHOWN
DATE:			DRAWING NUMBER CC-ARD-431 SHEET 21 OF 25

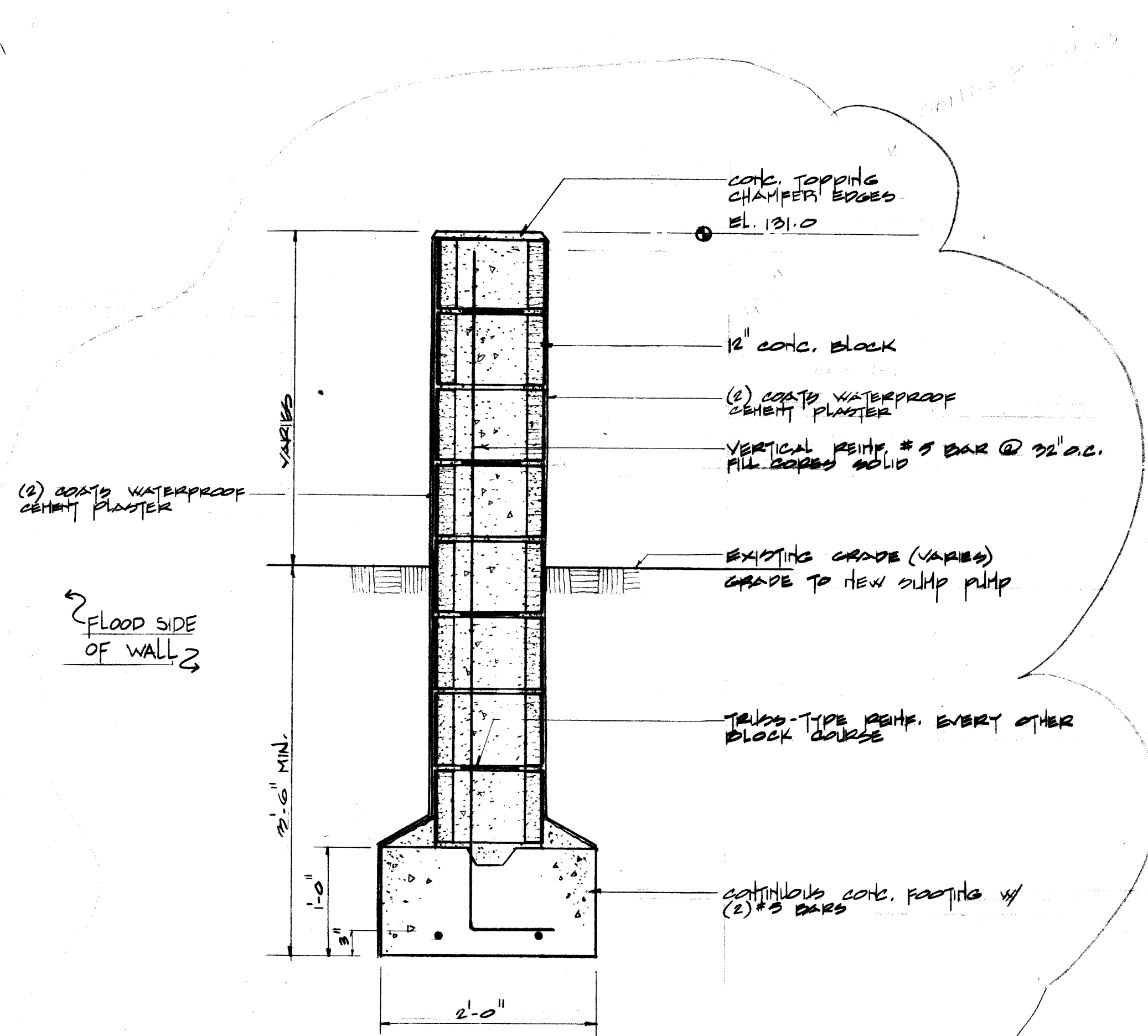


- Notes:**
- Work on Building No. 3 completely eliminated.
 - Building No. 1
 - No Stop Logs
 - No grouting along Perimeter of Stairs
 - Existing Drain Pipe to be rerouted
 - Sump to Storm Sewer piped underground
 - Delete New Sump Pit at Building No. 2. Waterproofing to South End of Building because Floodwall was deleted.
 - Building No. 4
 - New Floodshield to be eliminated
 - Stop logs must cross both Garage and Entrance. End stop logs at Garage Doors.
- Deleted due to Owner Improvements*

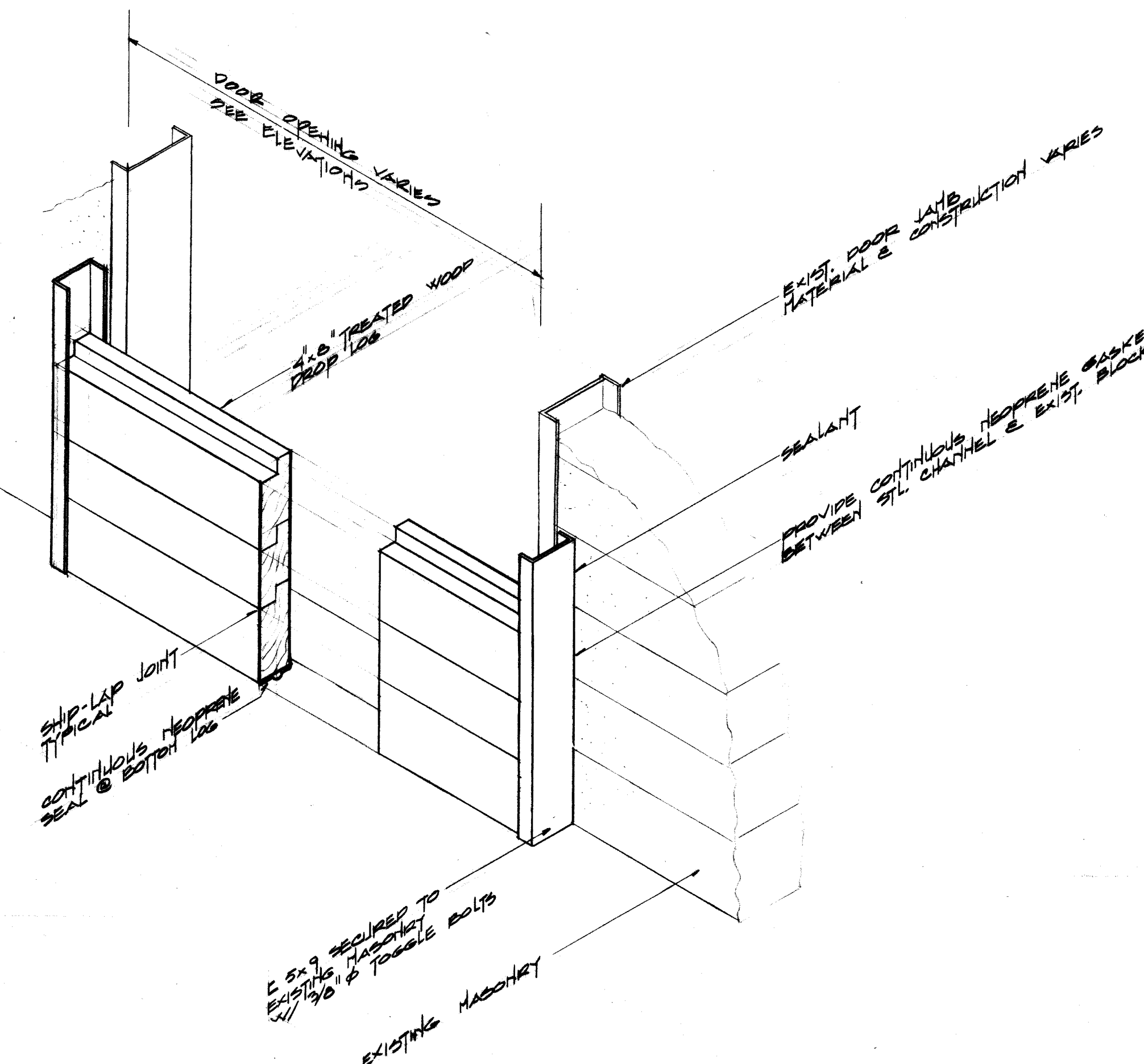
RECORD DRAWING
OF WORK AS BUILT



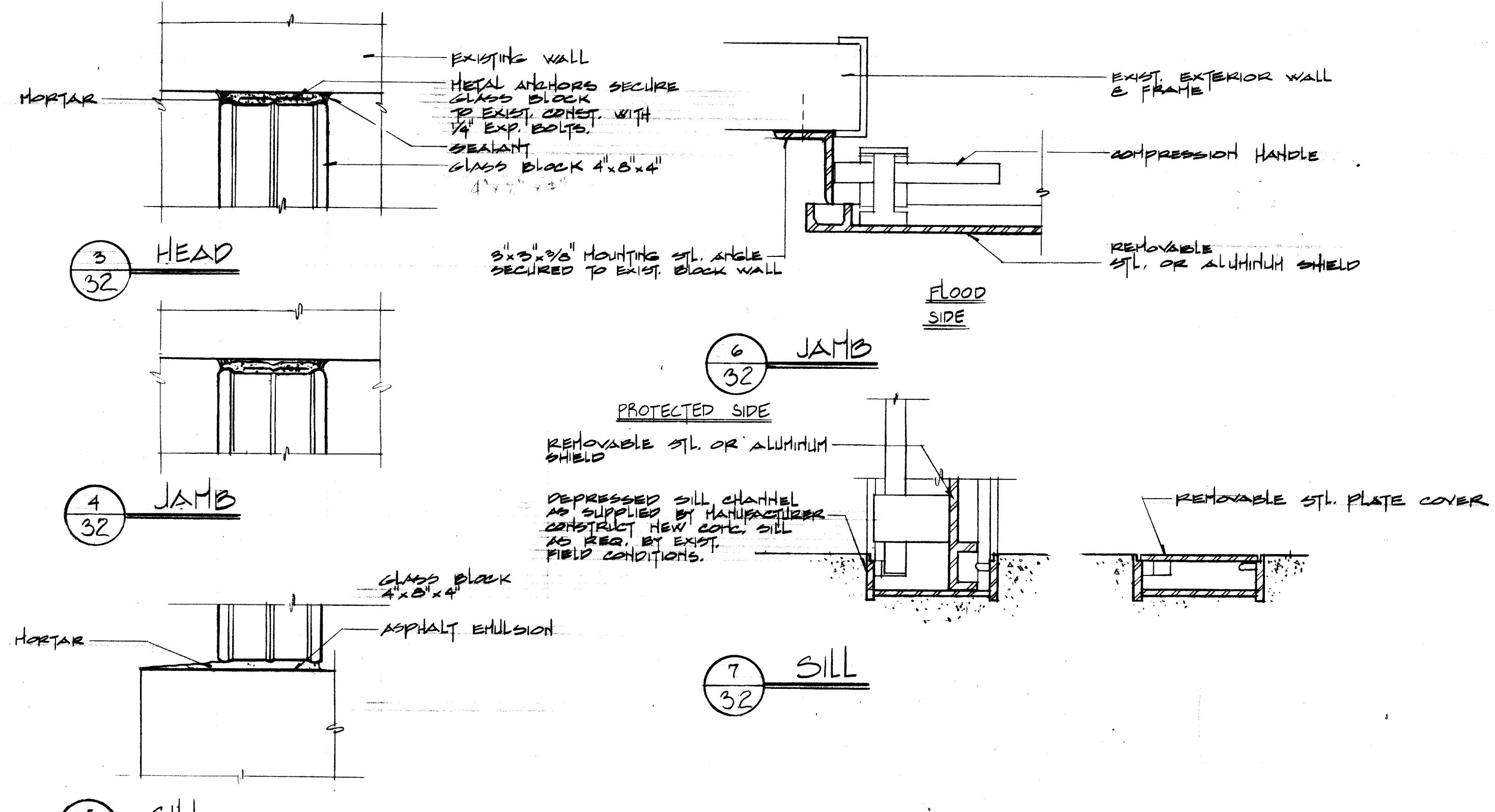
Revisions as noted - As Built		Date	Approved
Revision	Description	Date	Approved
THE RBA GROUP Designed by: RBA Drawn by: JLB Checked by: JLB Submitted by: JLB Reviewed by: JLB Concurred by: JLB			
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK		SAWMILL RIVER, NEW YORK ARDSLEY FLOOD CONTROL PROJECT MIDDLE AREA FLOODPROOFING BUILDING ELEVATIONS	
Approval Recommended: JLB Approved by: JLB Concurred by: JLB		Sheet reference number: 32-100-100 Date: 20 JUL 90 Scale: AS SHOWN Sheet 32 of 40	NEW YORK 20 JUL 90



1 SECTION THRU FLOODWALL
32 SCALE: 1"=1'-0"

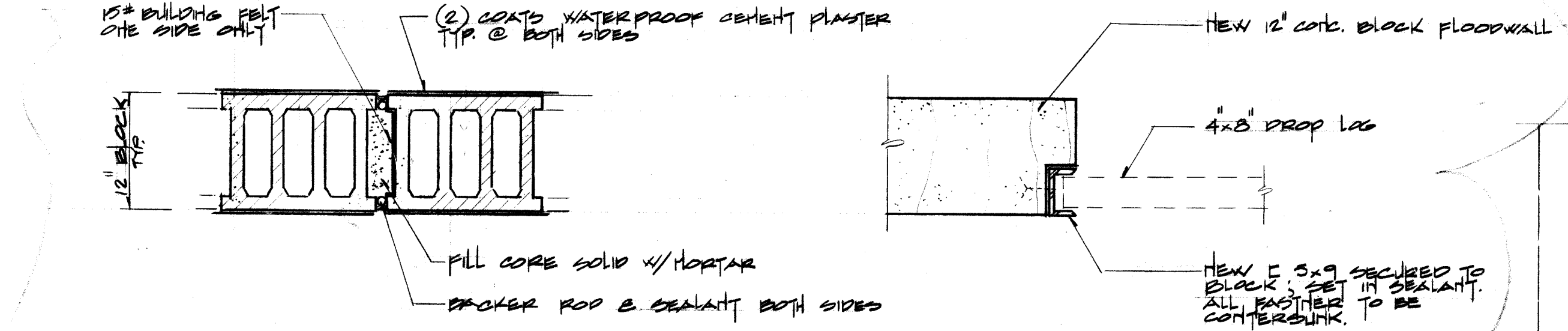


2 DETAIL @ STOPLOG CLOSURE @ EXISTING DOOR OPENINGS
32 SCALE: 1"=1'-0"



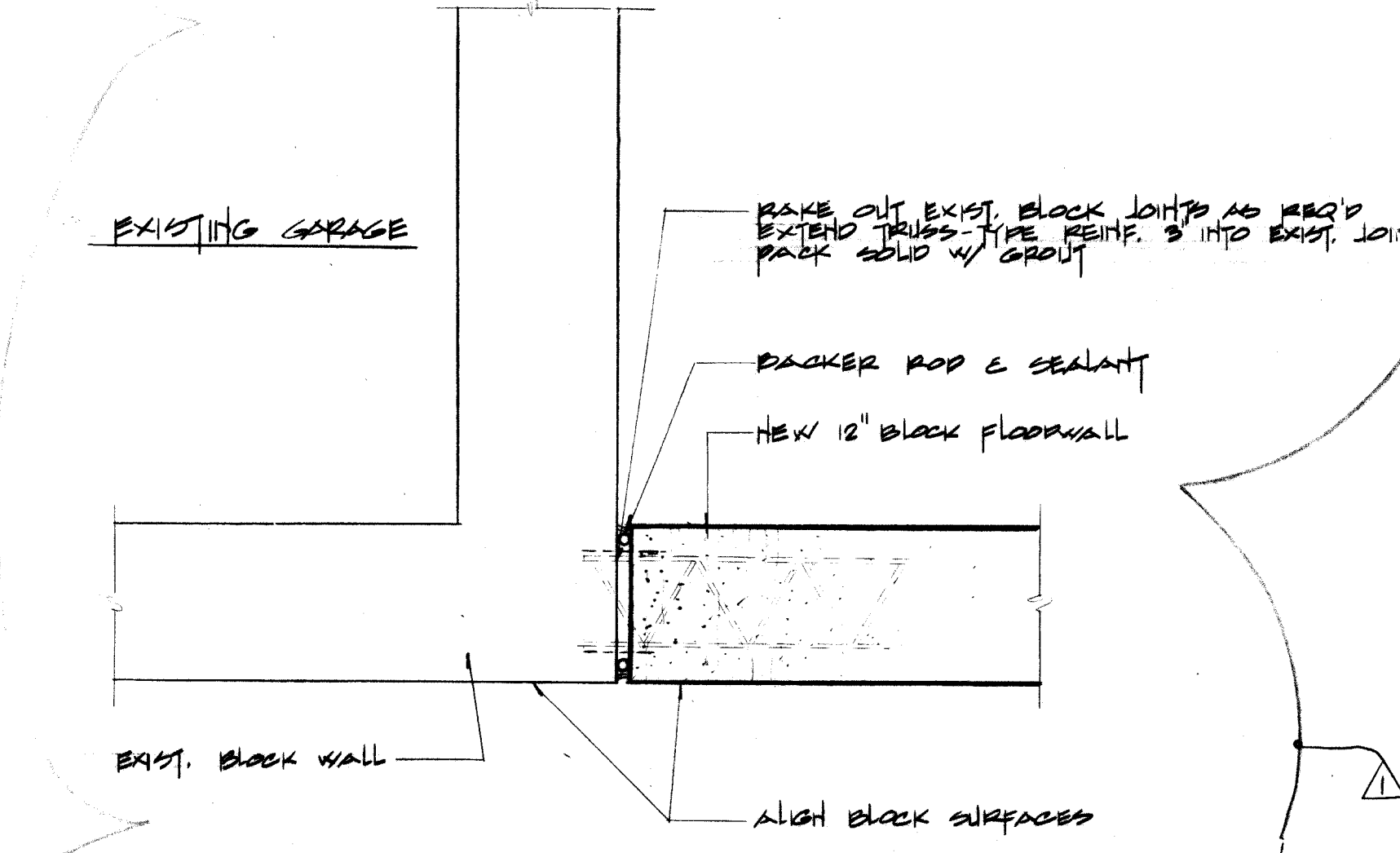
3 DETAIL @ GLASS BLOCK
32 H.T.S.

4 DETAIL @ FLOODSHIELD
32 H.T.S.

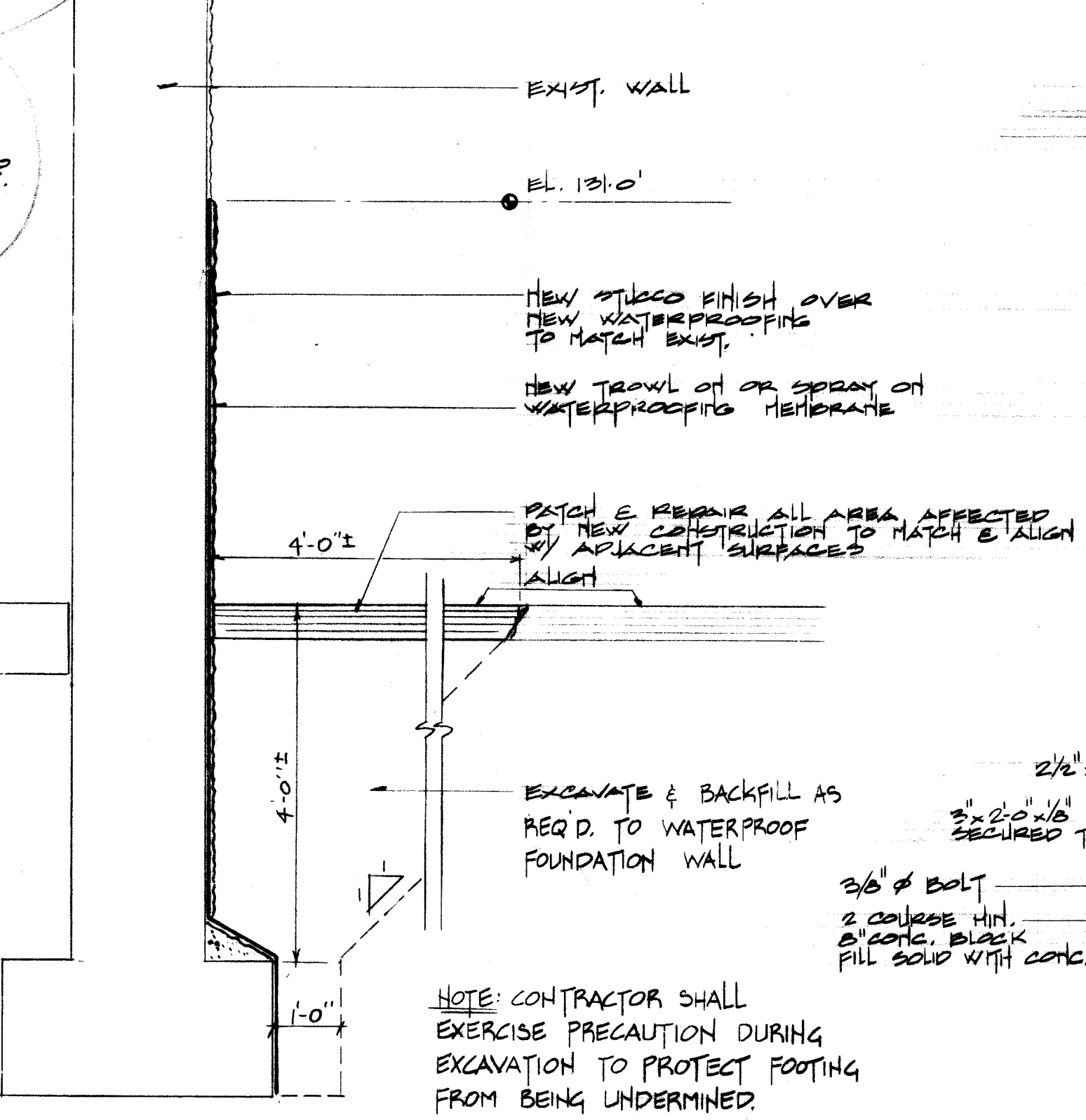


5 TYPICAL CONTROL JOINT @ FLOOD WALL
32 SCALE: 1"=1'-0"

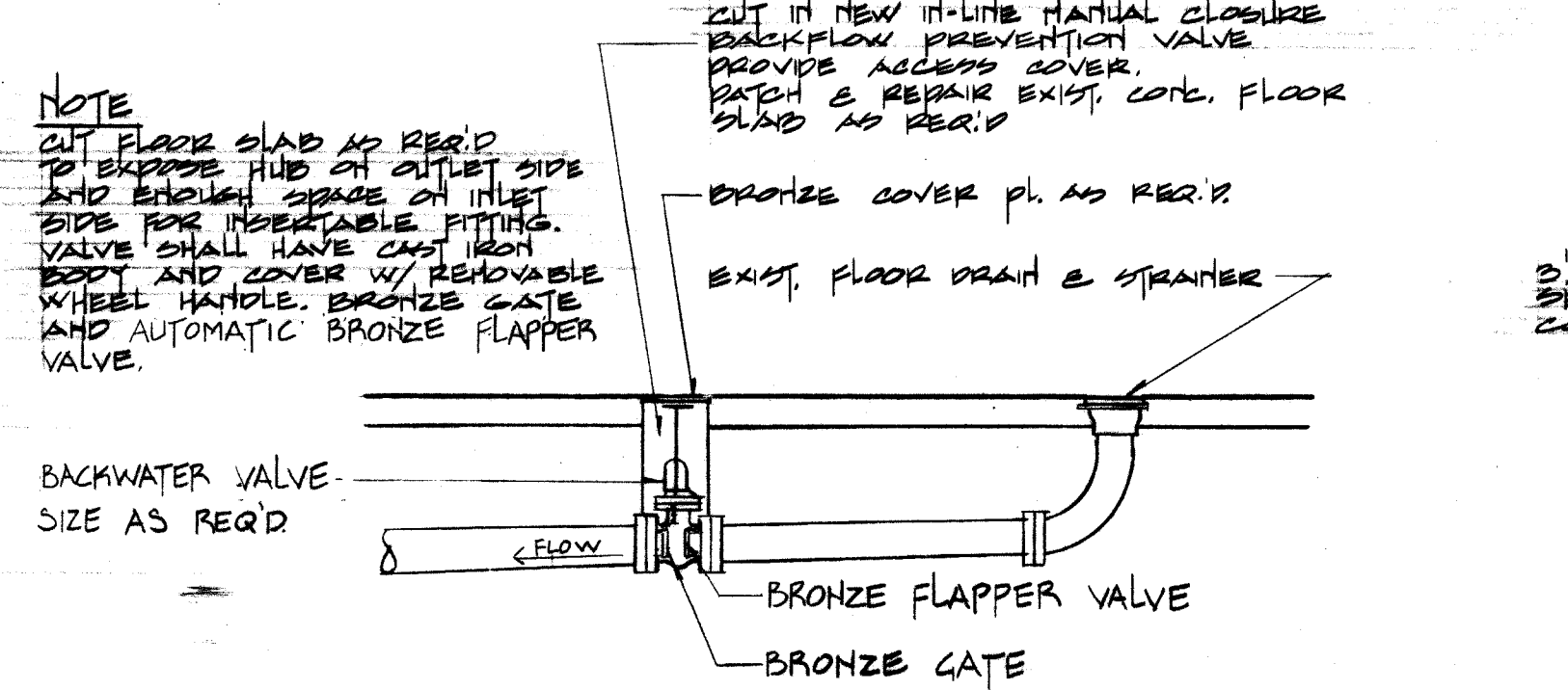
6 DROP LOG DETAIL @ FLOOD WALL
32 SCALE: 1"=1'-0"



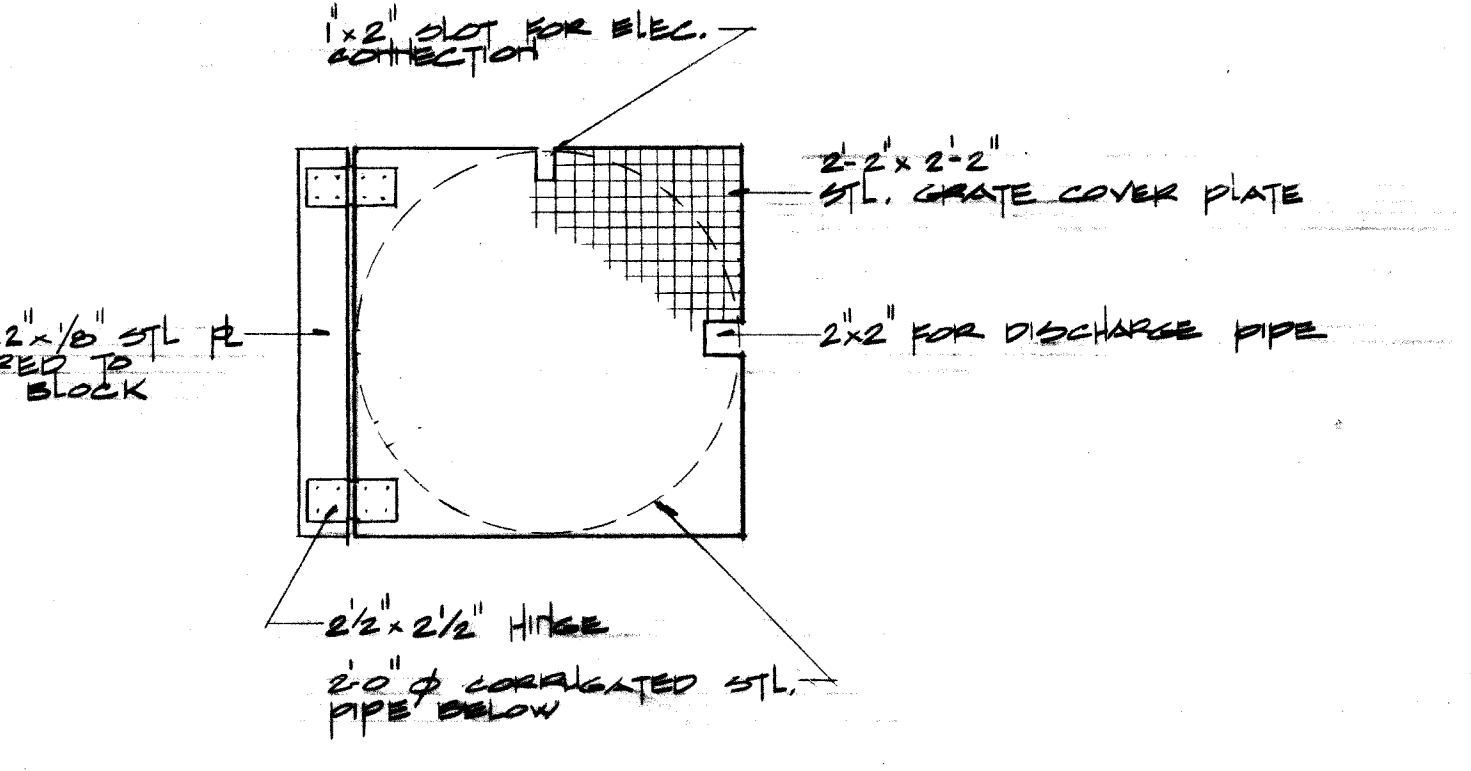
7 DETAIL @ WALL CONNECTION
32 SCALE: 1"=1'-0"



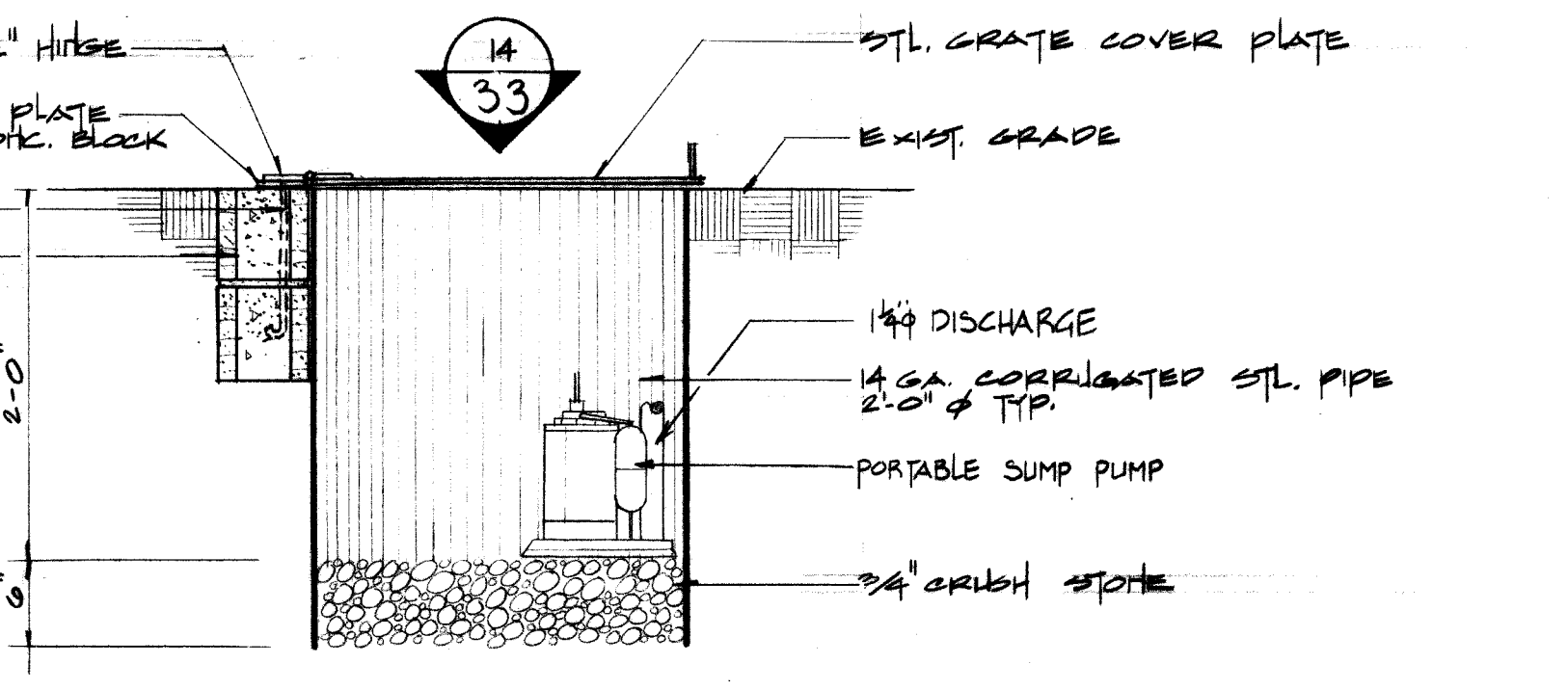
8 DETAIL @ EXTERIOR WALL WATERPROOFING
32 SCALE: 1"=1'-0"



9 NEW BACKWATER VALVE @ FLOOR DRAIN - GARAGE AREA BUILDING 32
32 H.T.S.



10 COVER PLATE @ SUMP PUMP PIT
33 SCALE: 1"=1'-0"

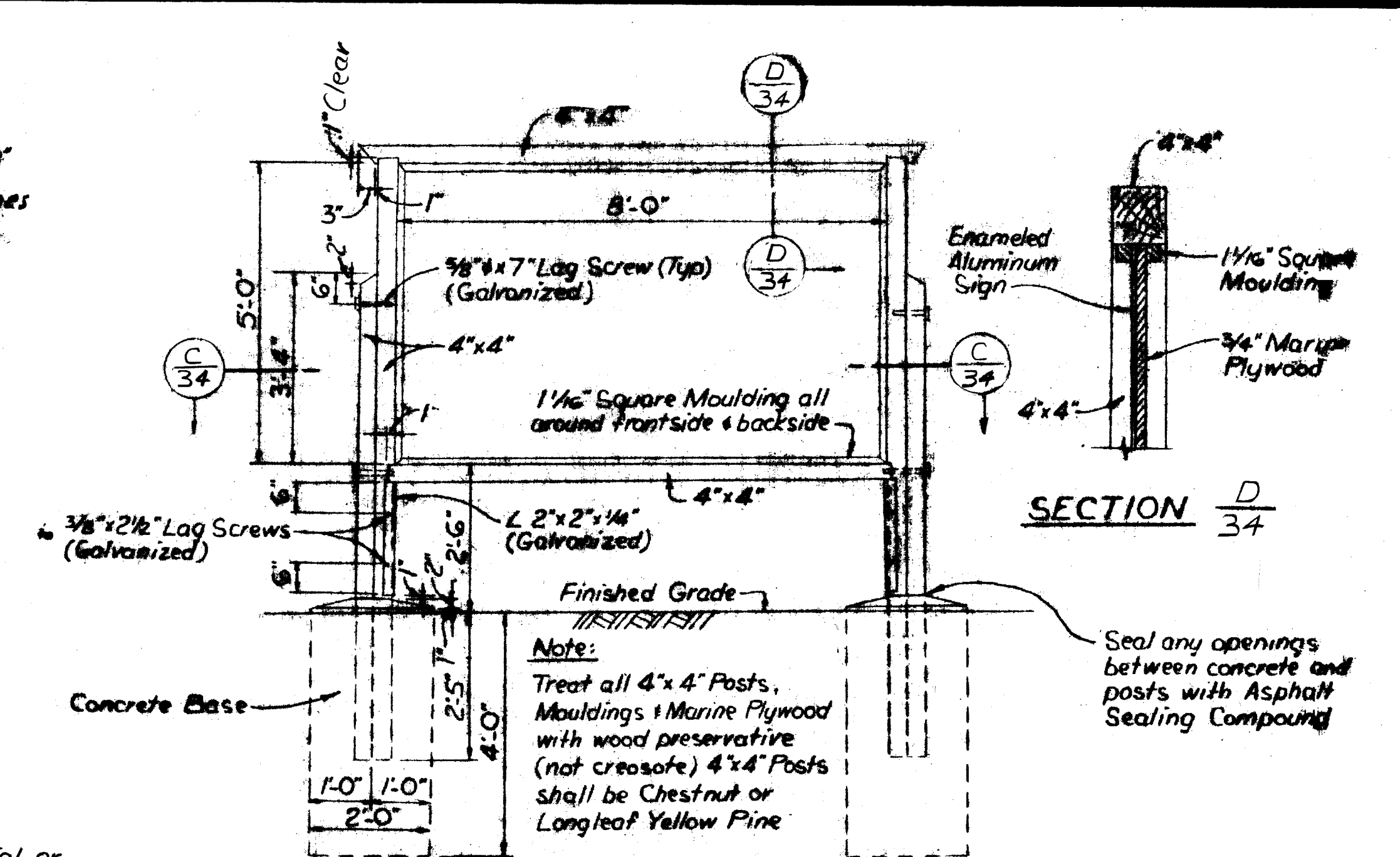


11 DETAIL THRU SUMP PUMP PIT
32 SCALE: 1"=1'-0"

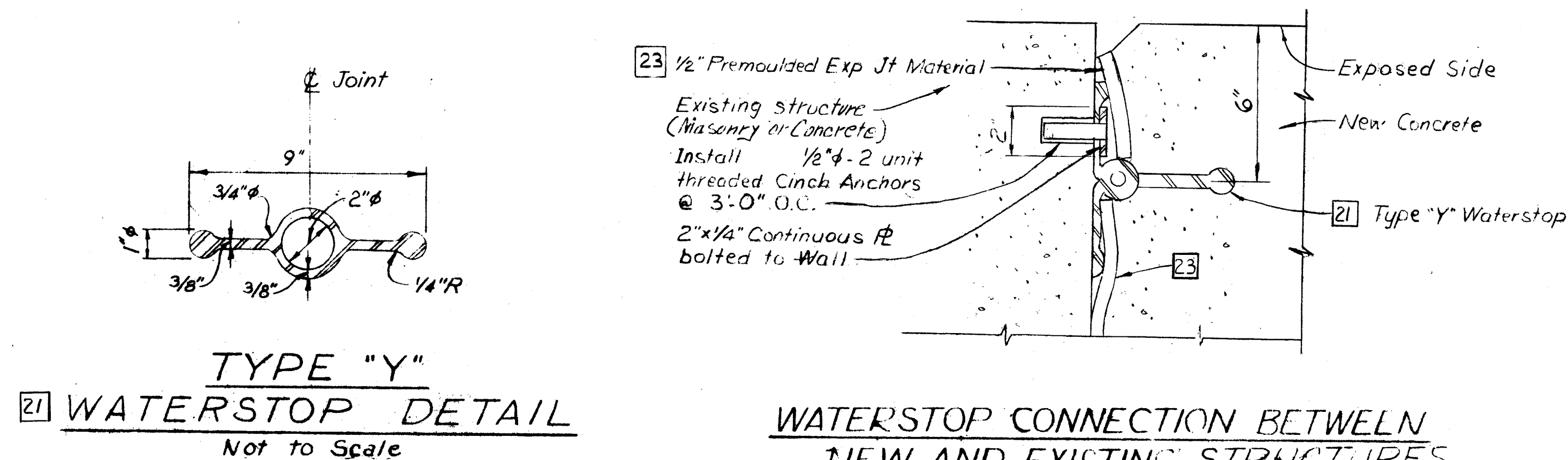
△ Delete details as per revisions noted on sheet No 32

RECORD DRAWING OF WORK-AS-BUILT

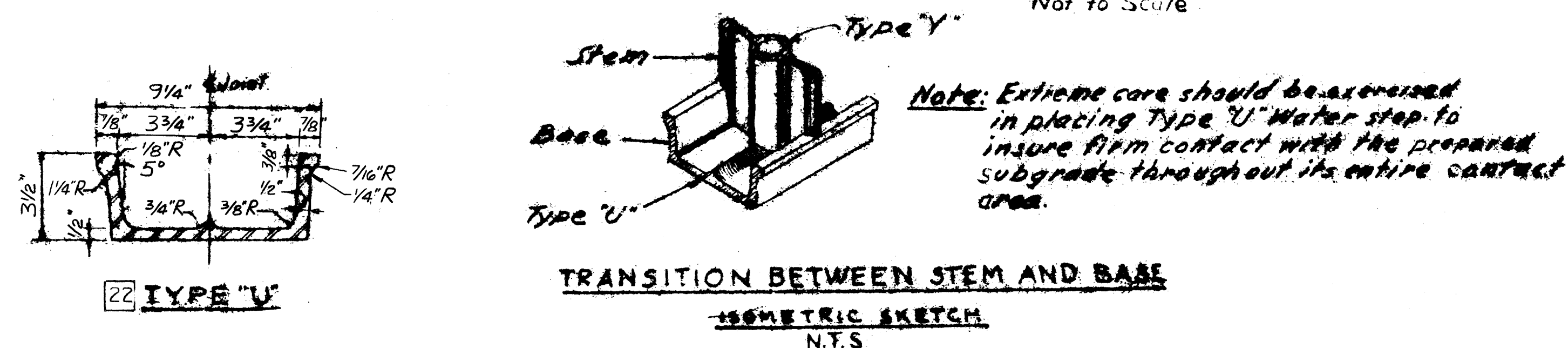
0' 6' 1'-0" 2'-0"
SCALE: 1"=1'-0"



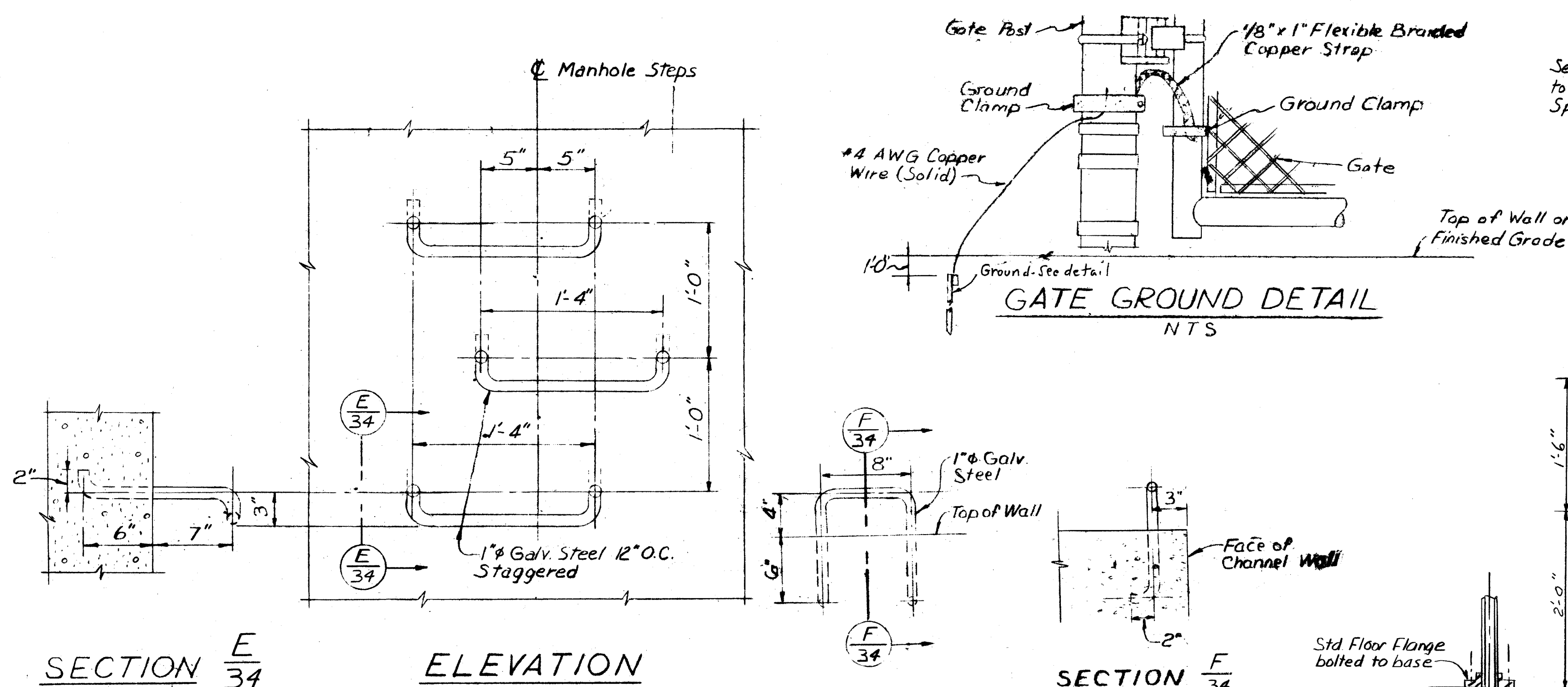
EXPANSION AND CONTRACTION JOINT DETAILS (UNLESS OTHERWISE SHOWN)
Not to Scale



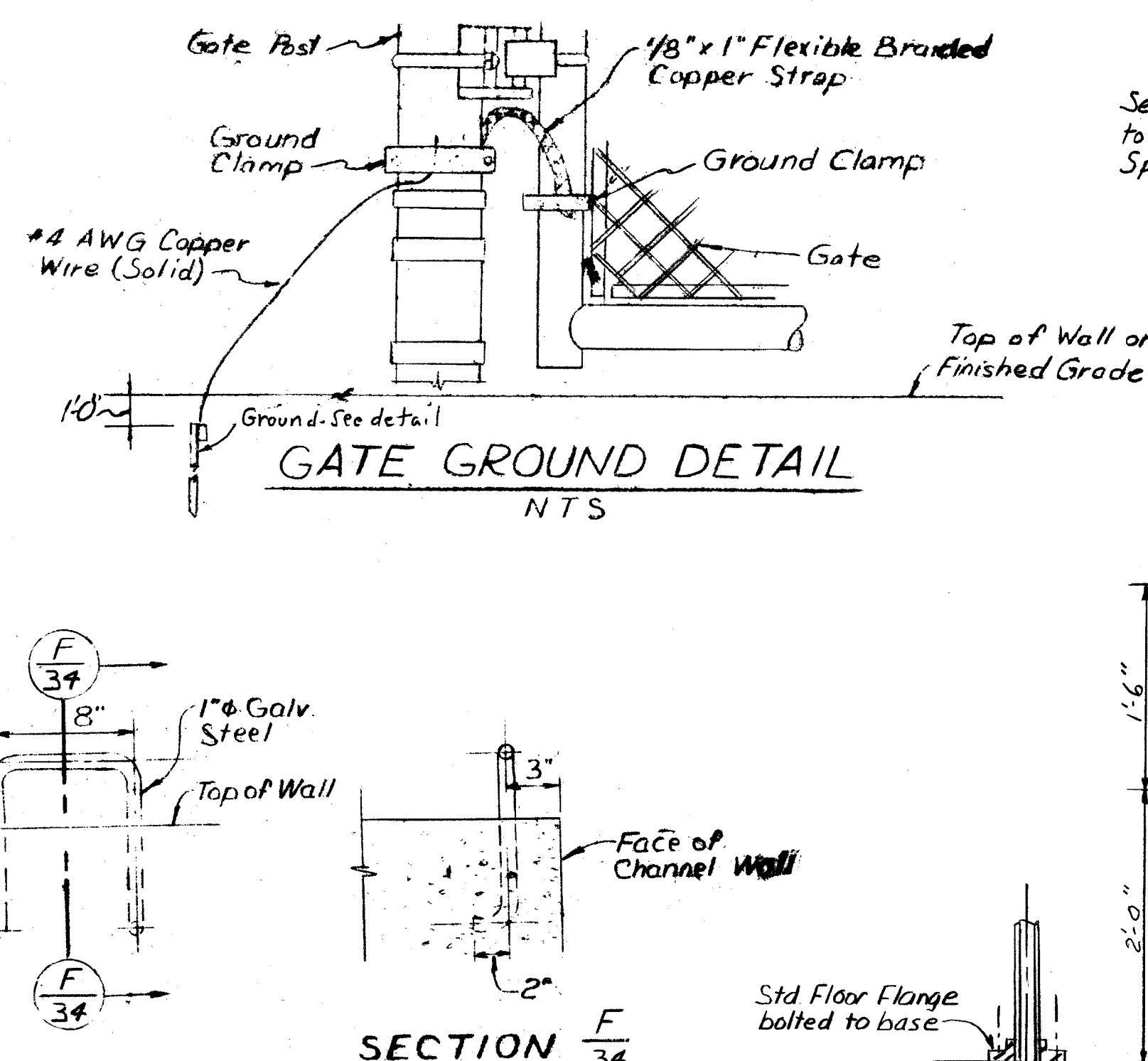
WATERSTOP CONNECTION BETWEEN NEW AND EXISTING STRUCTURES



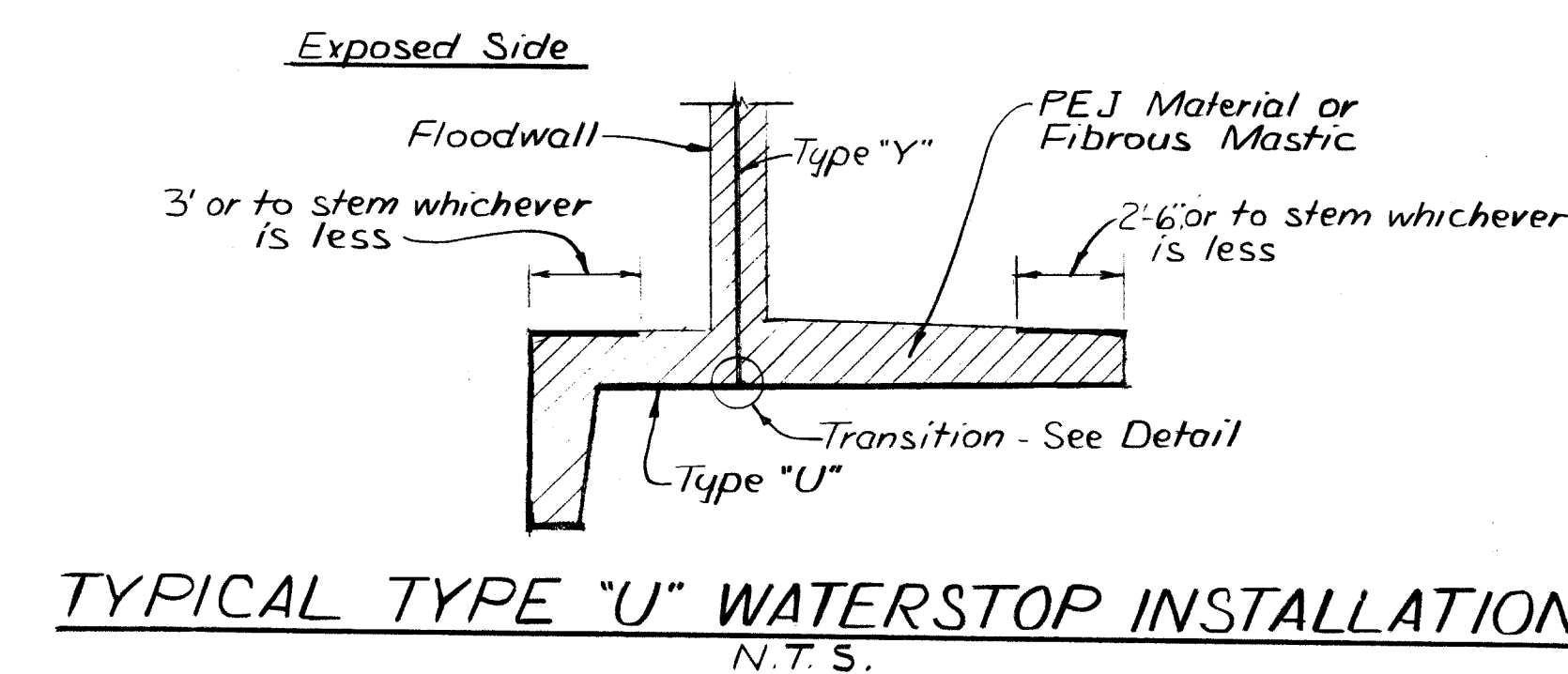
TRANSITION BETWEEN STEM AND BASE
ISOMETRIC SKETCH
N.T.S.



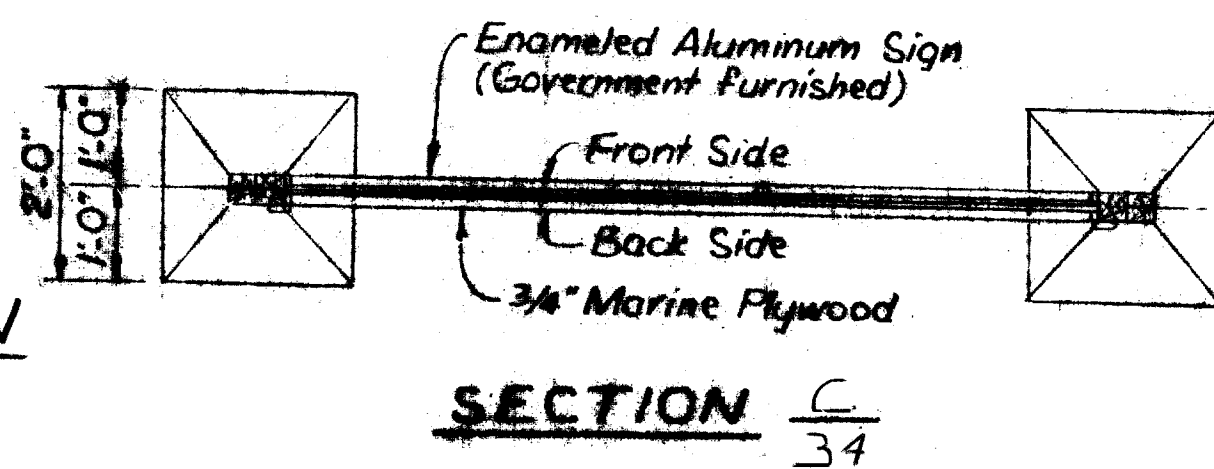
SECTION $\frac{E}{34}$ ELEVATION



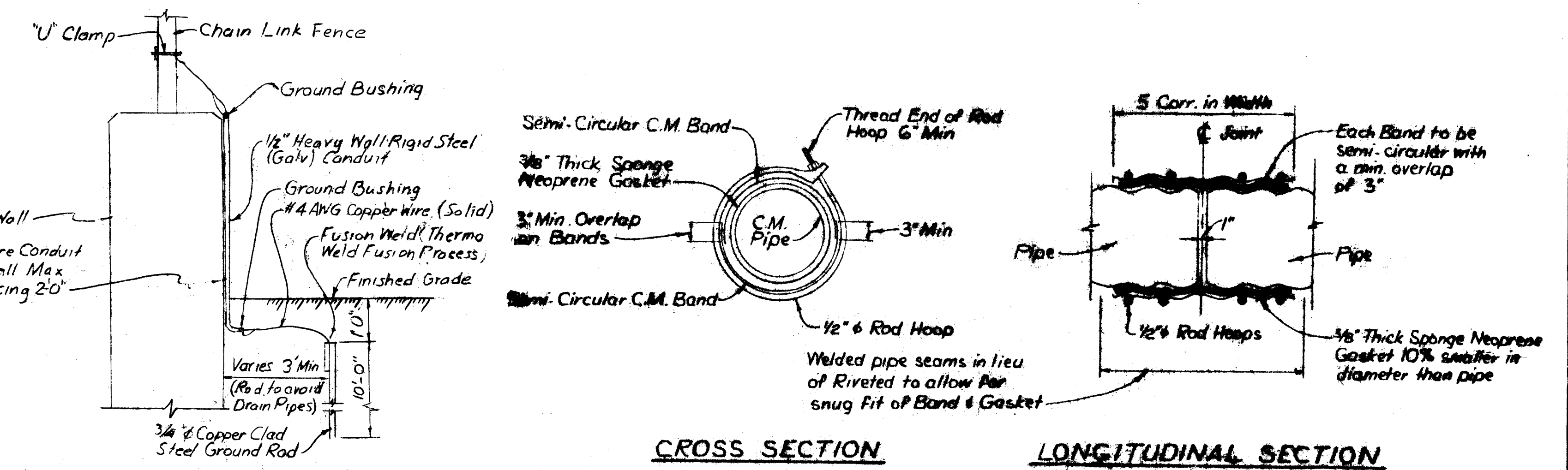
30 HANDHOLD DETAIL



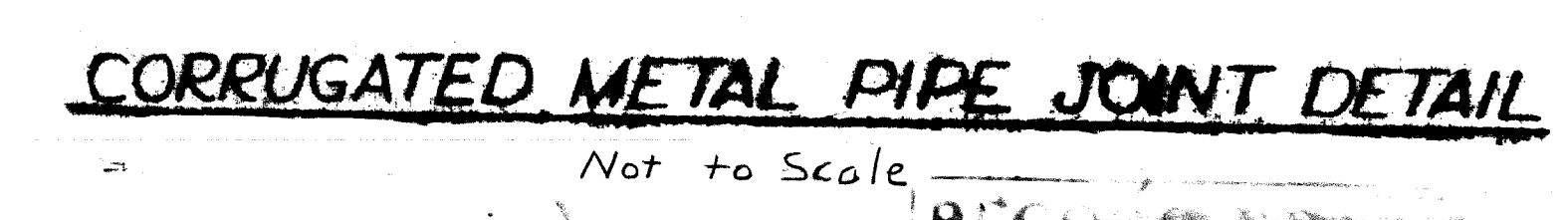
TYPICAL TYPE "U" WATERSTOP INSTALLATION
N.T.S.



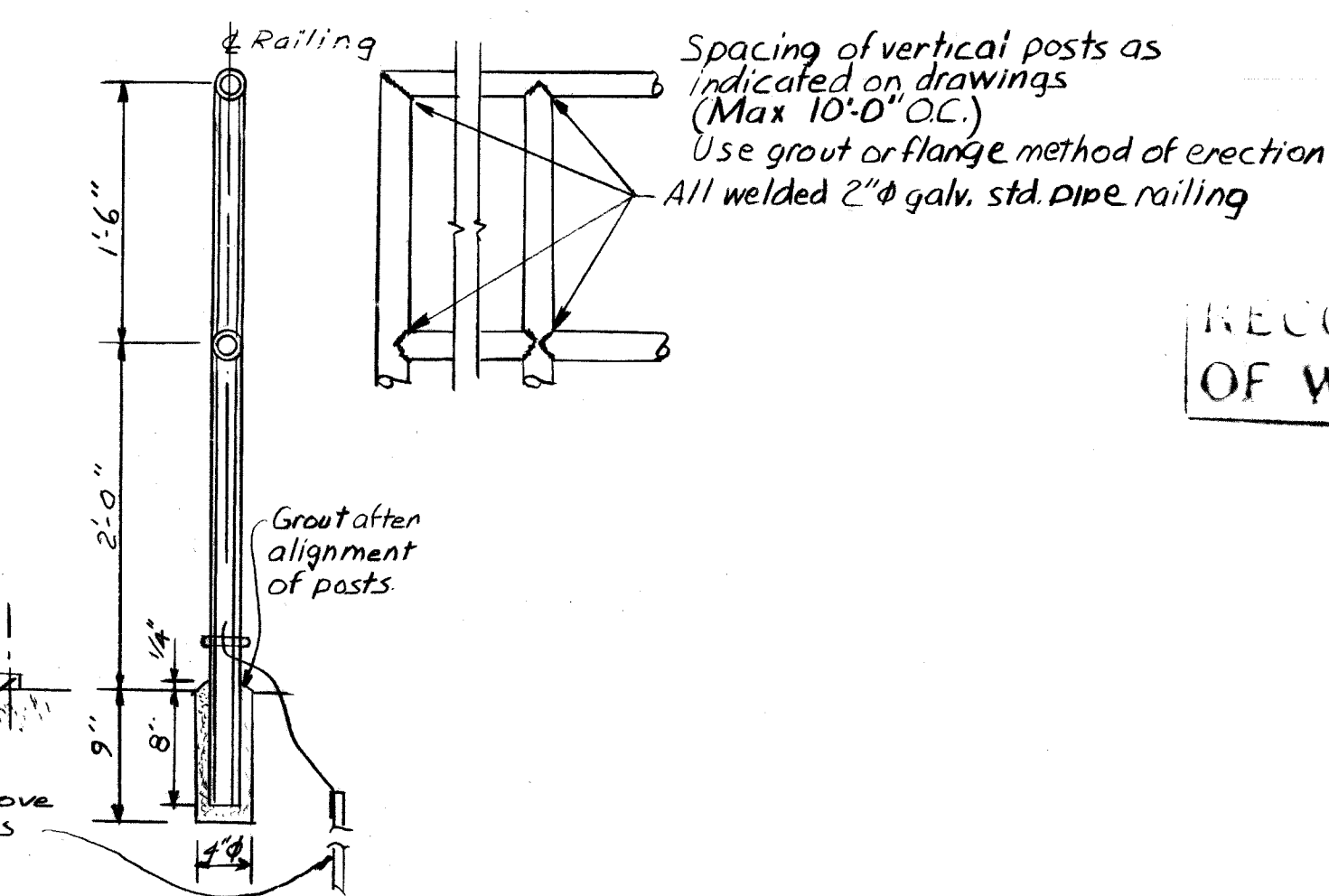
45 PERMANENT SIGN DETAILS (Locations to be determined by the Contracting Officer)



CROSS SECTION LONGITUDINAL SECTION



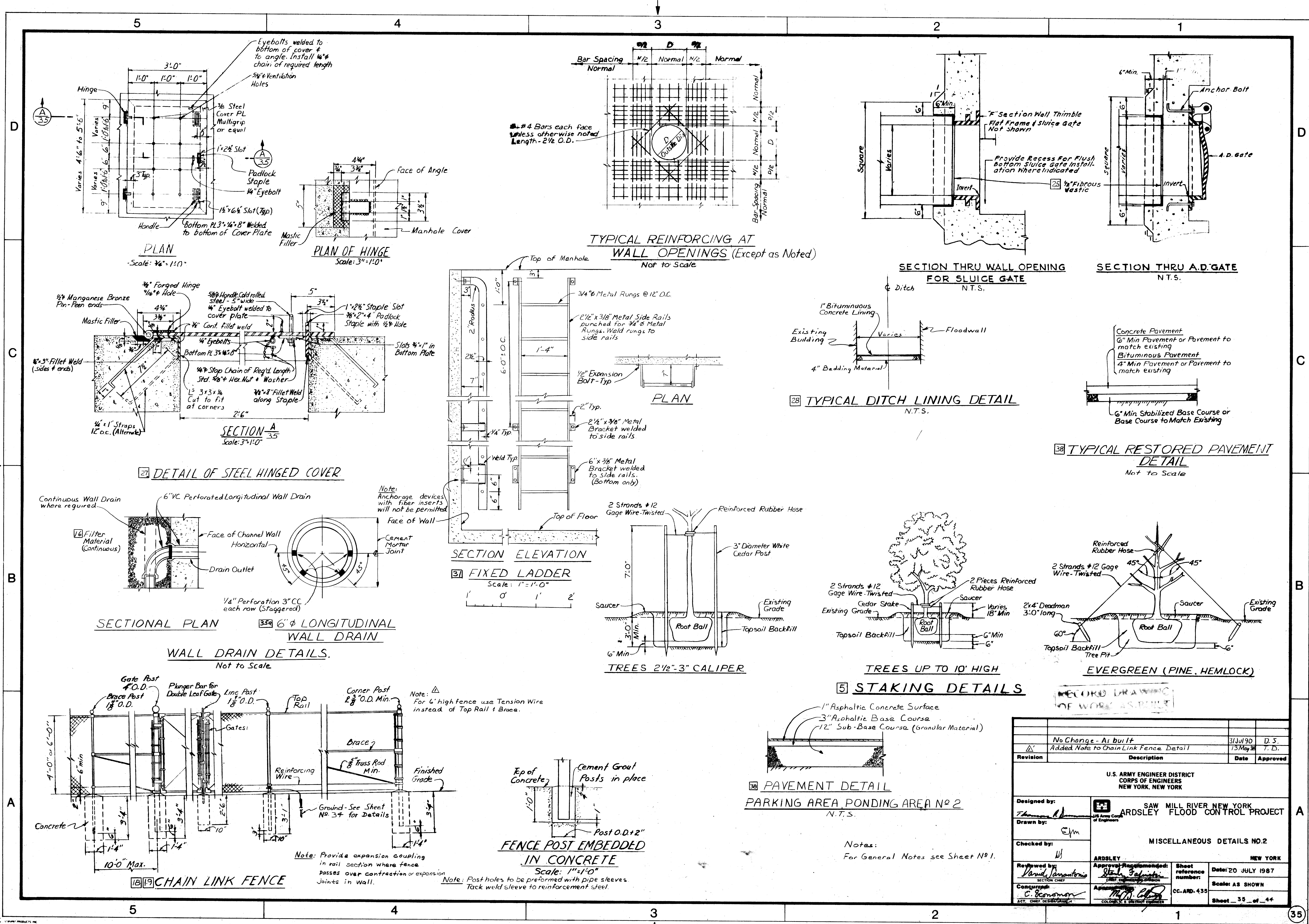
CORRUGATED METAL PIPE JOINT DETAIL

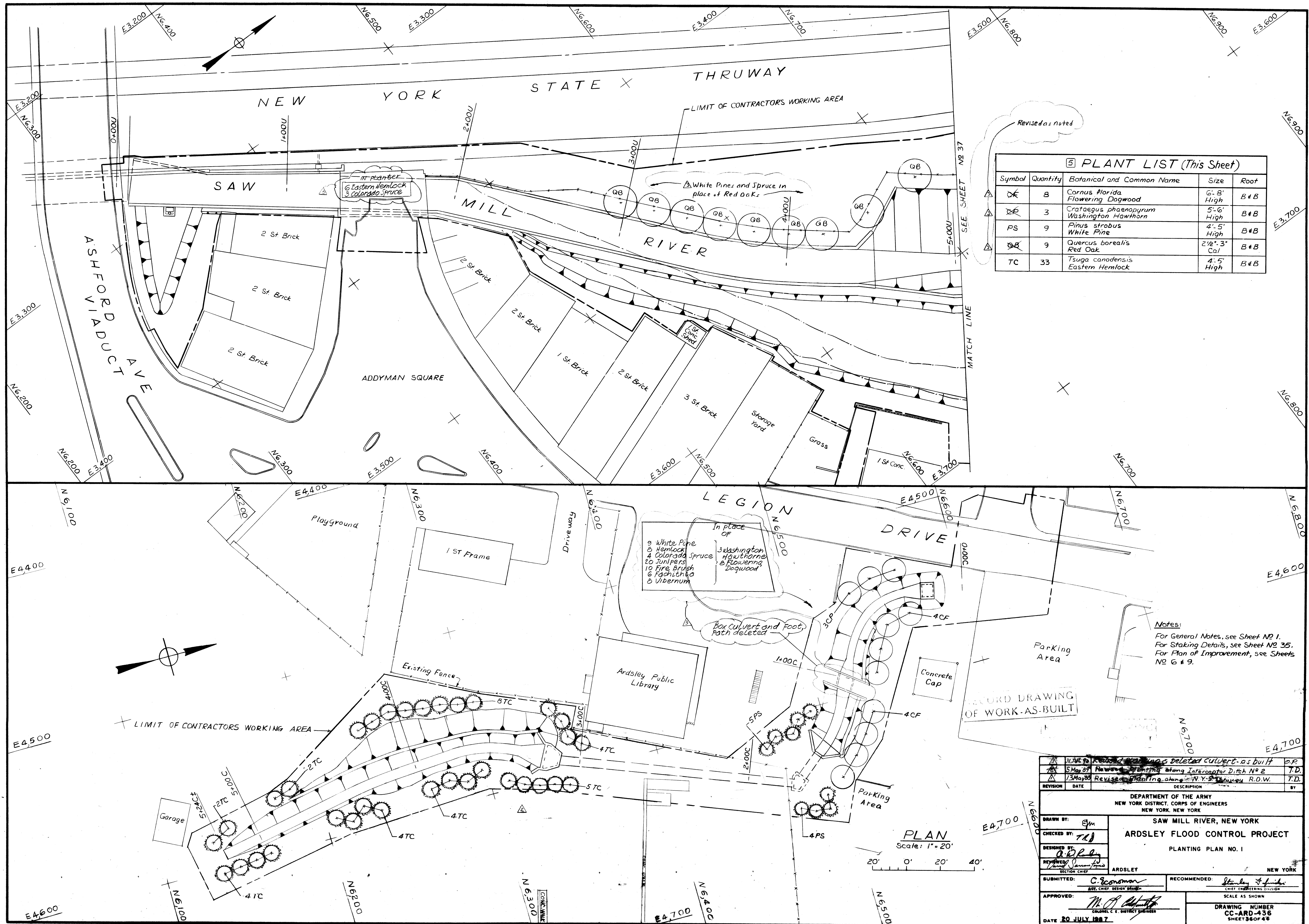


20 PIPE RAILING DETAILS

RECORD DRAWING
OF WORK-AS-BUILT

Revision	No change as built	Date	3/11/90 D: 5
	Description		Approved
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK			
Designed by: <i>Thomas R. D...</i>	 SAY MILL RIVER NEW YORK ARDSLEY FLOOD CONTROL PROJECT		
Drawn by: <i>Ejm</i>	MISCELLANEOUS DETAILS NO. 1		
Checked by: <i>KS</i>	ARDSLEY NEW YORK		
Reviewed by: <i>Daniel Santonicio</i> SECTION CHIEF	Approved & Recommended:  CHIEF, ENGINEERING DIVISION	Sheet reference number:	Date: 20 JULY 1987
Concurred: <i>C. Simonson</i> ACT. CHIEF DESIGN DIV.	Approved by:  COLONEL, 1st DISTRICT ENGINEER	CC-ARD434	Scale: AS SHOWN Sheet 34 of 44



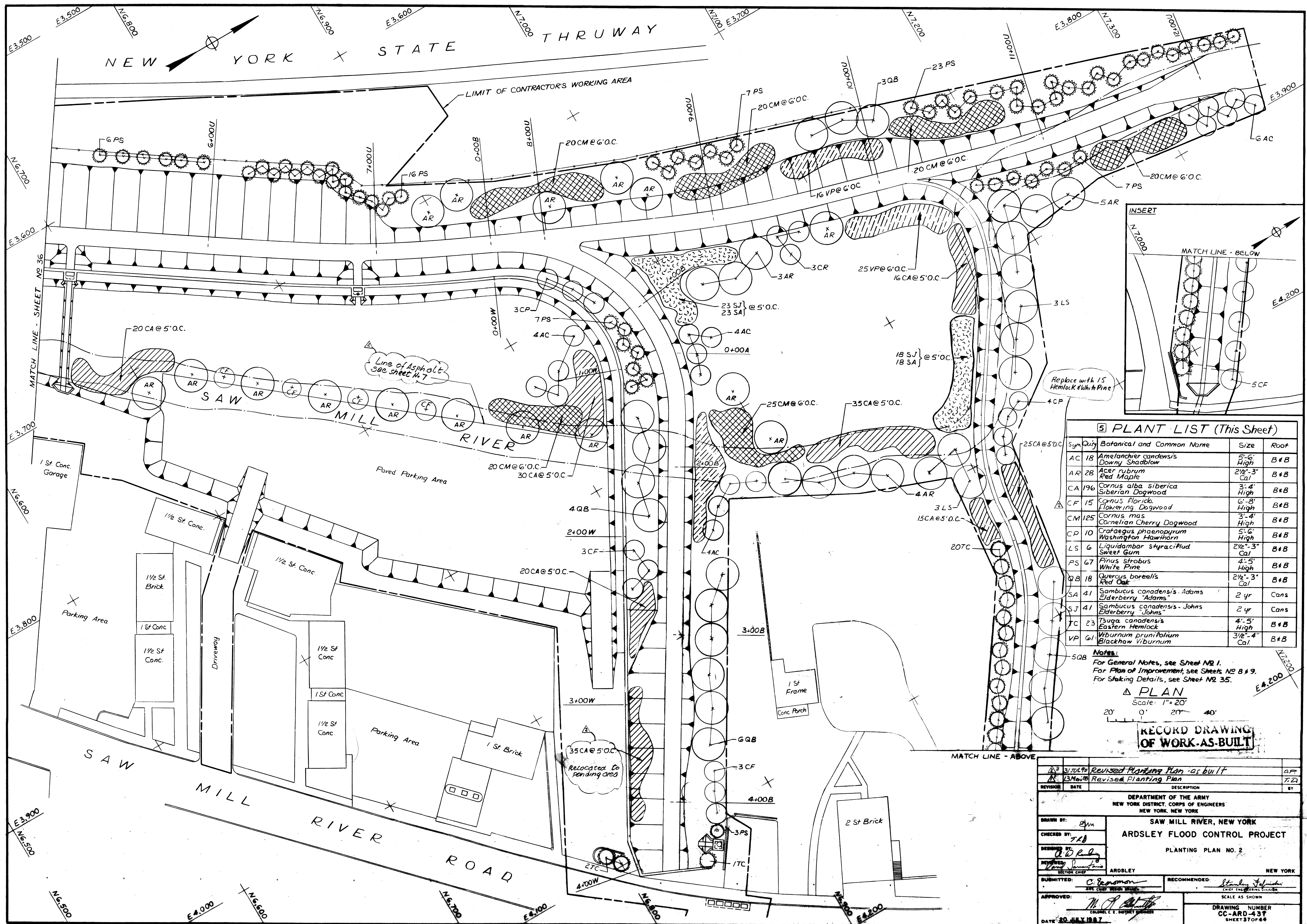


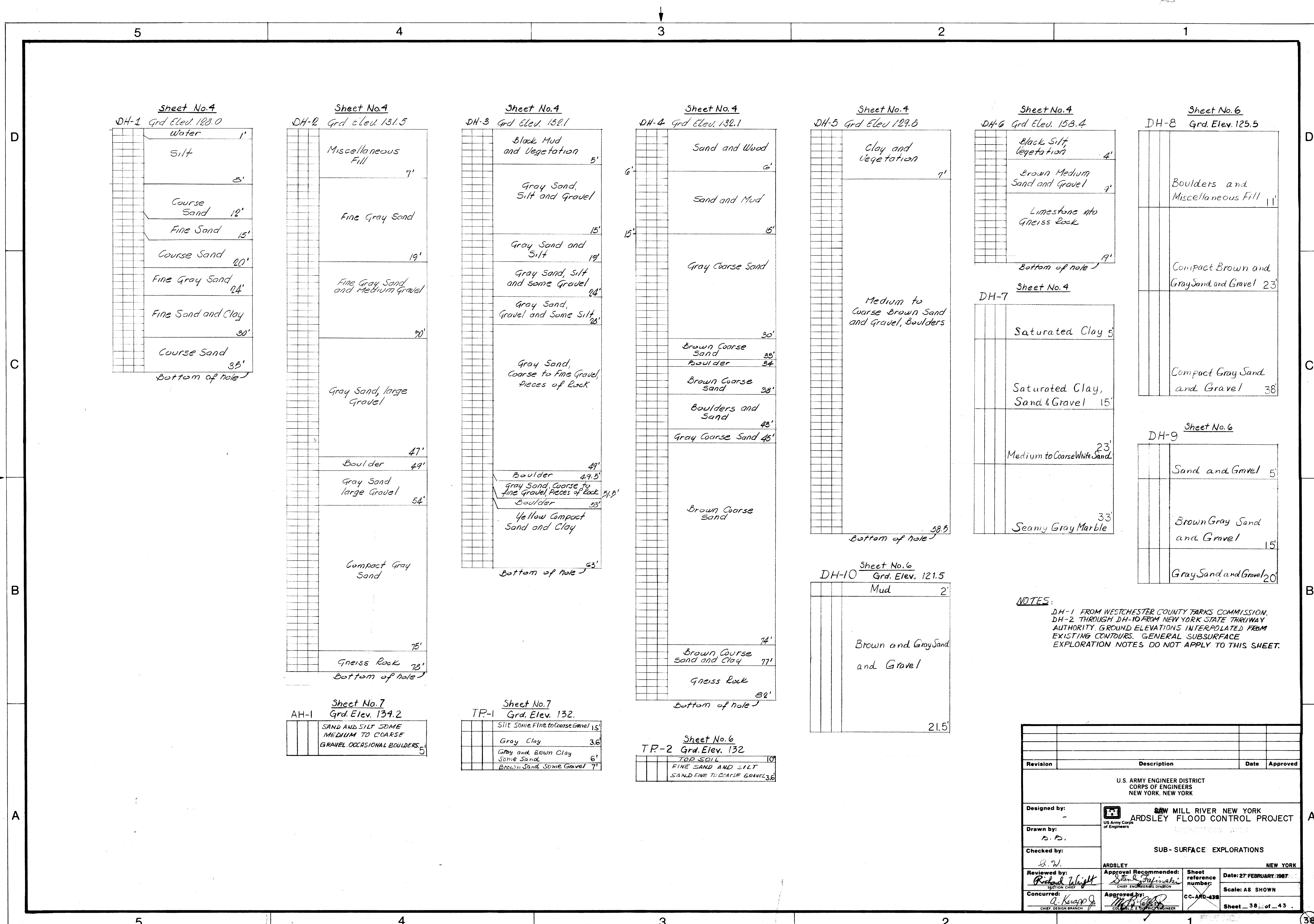
Revised as noted

5 PLANT LIST (This Sheet)					
Symbol	Quantity	Botanical and Common Name	Size	Root	
QB	8	Cornus Florida Flowering Dogwood	6'-8' High	B+B	
PS	3	Crataegus phoenopyrum Washington Hawthorn	5'-6' High	B+B	
PS	9	Pinus strobus White Pine	4'-5' High	B+B	
QB	9	Quercus borealis Red Oak	2 1/2" x 3" Cal	B+B	
TC	33	Tsuga canadensis Eastern Hemlock	4'-5' High	B+B	

Notes:
For General Notes, see Sheet No. 1.
For Staking Details, see Sheet No. 35.
For Plan of Improvement, see Sheets No. 6 & 9.

DRAWN BY: <i>gjm</i>		CHECKED BY: <i>TKJ</i>		DESIGNED BY: <i>gjm</i>		REVIEWED BY: <i>gjm</i>		SUBMITTED: <i>C. G. Gorman</i>		RECOMMENDED: <i>Stanley J. Fisher</i>		APPROVED: <i>M. P. [Signature]</i>		DATE: 20 JULY 1987	
DEPARTMENT OF THE ARMY NEW YORK DISTRICT, CORPS OF ENGINEERS NEW YORK, NEW YORK												SAW MILL RIVER, NEW YORK ARDSLEY FLOOD CONTROL PROJECT PLANTING PLAN NO. 1			
SECTION CHIEF: ARDSLEY												NEW YORK			
SCALE AS SHOWN												DRAWING NUMBER CC-ARD-436 SHEET 3 OF 4			





NOTES:
DH-1 FROM WESTCHESTER COUNTY PARKS COMMISSION.
DH-2 THROUGH DH-10 FROM NEW YORK STATE THRUWAY
AUTHORITY GROUND ELEVATIONS INTERPOLATED FROM
EXISTING CONTOURS. GENERAL SUBSURFACE
EXPLORATION NOTES DO NOT APPLY TO THIS SHEET.

Revision	Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

Designed by: **SAW MILL RIVER NEW YORK**
ARDSLEY FLOOD CONTROL PROJECT

Drawn by: **P. P.**

Checked by: **S. W.**

Reviewed by: **Richard Wright**

Concurred by: **a. Knapp**

Approval Recommended: **Stanley J. Fink**

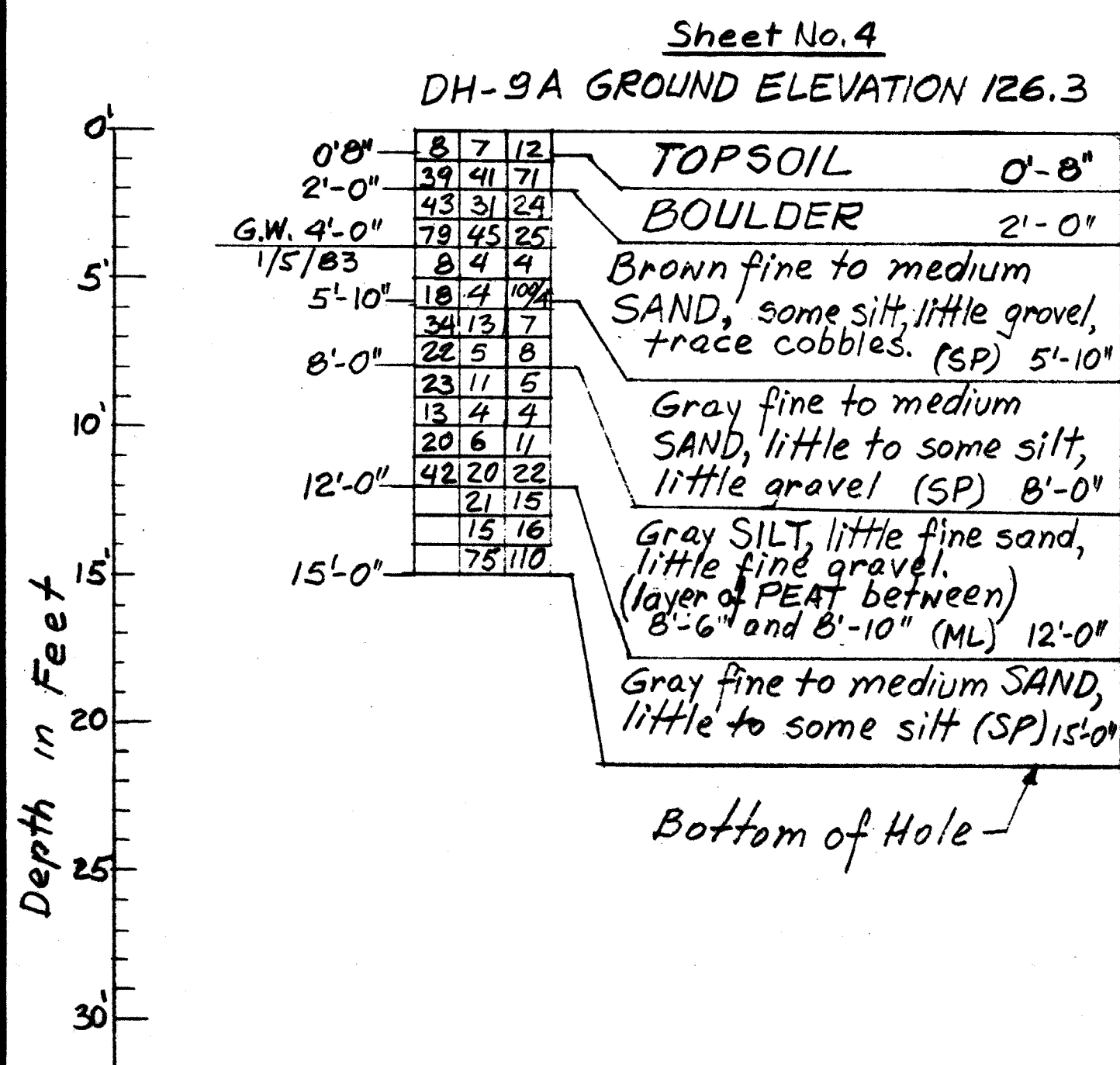
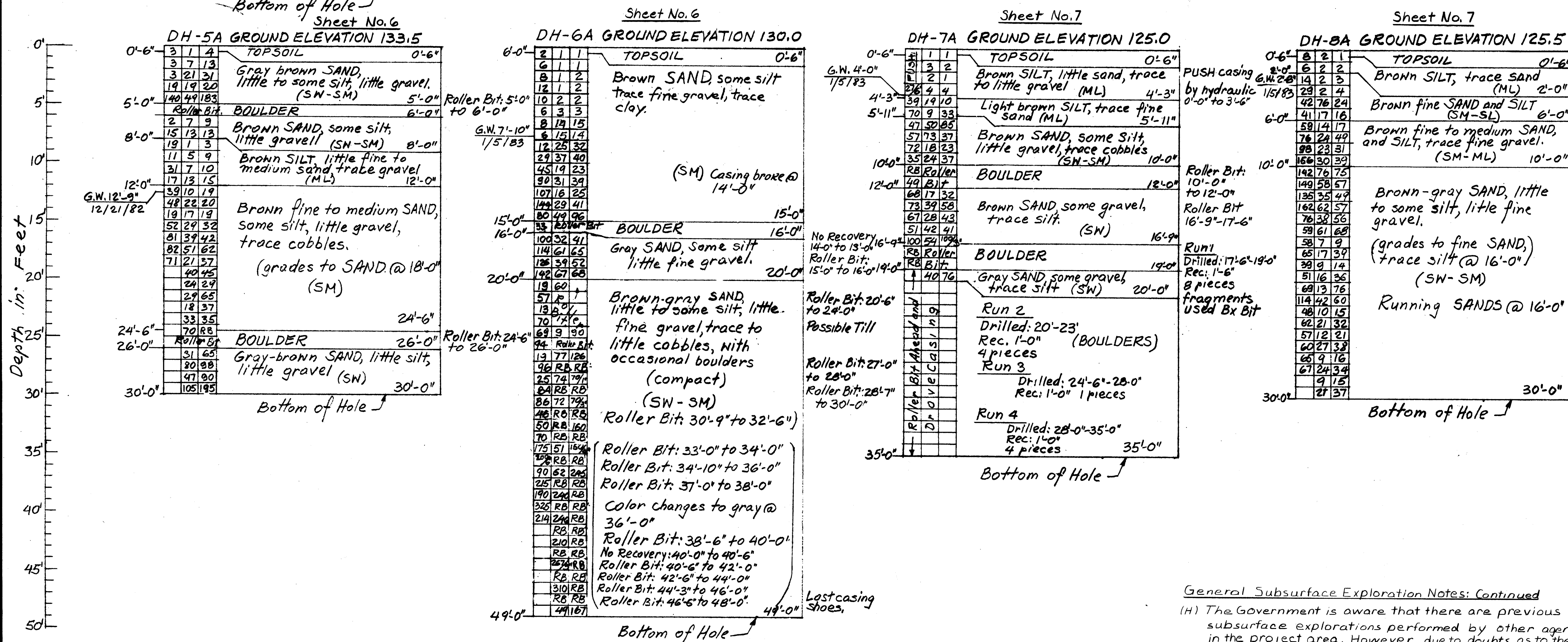
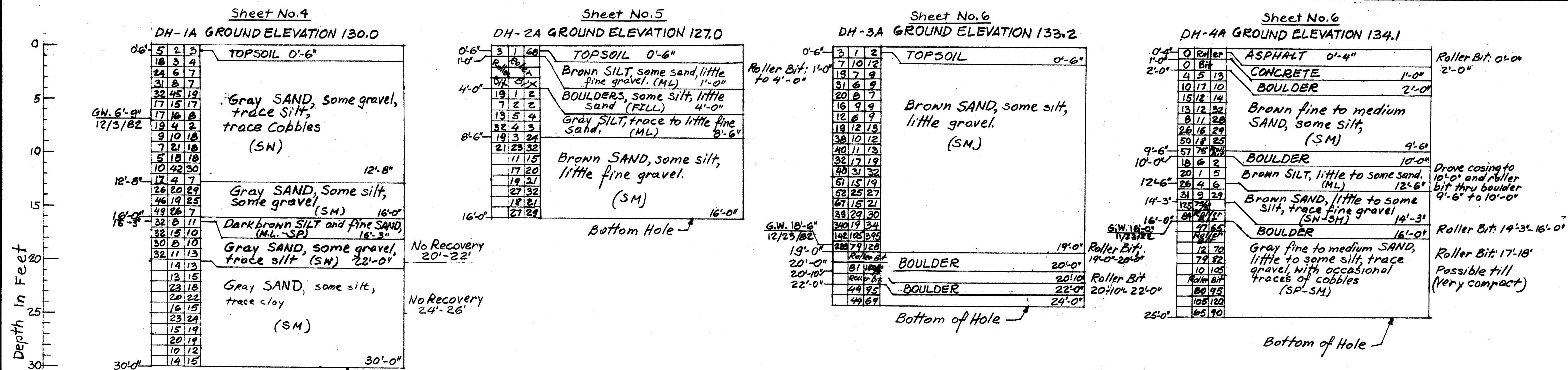
Approved by: **MAJ. G. J. ...**

Sheet reference number: **CC-ARD-438**

Date: **27 FEBRUARY 1967**

Scale: **AS SHOWN**

Sheet **38** of **43**



General Subsurface Exploration Notes

1. The soil logs, notes and other test data shown are the result of interpretations made by representatives of the Corps of Engineers from personal observations made during the exploration period of the following: a) samples of subsurface materials recovered during exploration, b) records of exploration as prepared by the drill operator and Government inspector and c) other records pertinent to surface and subsurface conditions. The samples and records are available for inspection upon request to Chief, Foundations and Materials Branch, New York District, Corps of Engineers, New York, N.Y.

2. Explanation of the classifications and terms

a. Bedrock - Natural solid mineral matter occurring in great thickness and extent in its natural location. It is classified according to geological type and structure (joints, bedding, etc.) and described as solid, weathered, broken, fragmented or decomposed depending on its condition.

b. Soils - Sediments or other unconsolidated accumulations of particles produced by the physical and chemical disintegration of rocks, and which may or may not contain organic matter.

Size Component Terms	Proportion Terms by Weight
Boulder..... larger than 8 inches	Major Component is shown with all letters capitalized
Cobble or Small Stone..... 8 inches to 3 inches	Minor Component percentage terms of Total sample are:
Gravel..... 3 inches to 4.75 mm (#4 sieve)	and..... 40 to 50 percent
coarse..... 3 inches to 1/2 inch	some..... 20 to 40 percent
medium..... 1/2 inch to 4.75 mm	little..... 10 to 20 percent
Sand..... 4.75 mm (#4 sieve) to 0.075 mm (#200 sieve)	trace..... 1 to 10 percent
coarse..... 4.75 mm to 2.00 mm (#10 sieve)	
medium..... 2.00 mm to 0.42 mm (#40 sieve)	
fine..... 0.42 mm to 0.075 mm (#200 sieve)	

Silt and Clay..... finer than 0.075 mm. Distinction between each based on Plasticity Index and Liquid Limit.

c. Gradation Terms - The terms coarse, medium and fine are used to describe gradation of Sands and Gravel. When no gradation term is used, the component is graded from coarse to fine. Other gradings are used, such as medium to fine, fine, etc.

d. The terms used to describe the various soil components and proportions are arrived at by visual estimates of the recovered soil samples. Other terms are used when the recovered samples are not truly representative of the natural materials, such as, soil containing numerous cobbles and boulders which cannot be sampled, thinly stratified soils, organic soils, and fills. The terms (SM-GM) etc. refer to the Unified Soil Classification System as per Manual MIL-STD-619B dated 12 June 1968.

e. Ground Water - The date shown directly below the ground water (G.W.) is the date on which the water level in the exploration was measured. The measurement was made during exploration work or immediately after completion, unless otherwise noted. The depth recorded is influenced by exploration methods, the soil type and weather conditions during exploration. Where no water was found it is so indicated. It is anticipated that the ground water will rise during periods of wet weather. In addition, perched ground-water above the water levels indicated (or above the bottom of the hole where no ground water is indicated) may be encountered at changes in soil strata or top of rock.

LEGEND

● DH-X = DRILL HOLE	DH-X
■ TP-Y = TEST PIT	El. XX.X (A)
● AH-Z = AUGER HOLE	(B) (C) (C)
	18 25 18
	25 10 15
	32 39 13
	10 Press
	12 Tube (E)
	18 11 29
	Run D-5.0'
	1 R-3.9' (F)

- (A) Surface elevation or top surface of water at time and location of exploration. DATUM M.S.L.
- (B) Blows per foot on 4" diameter casing using 300 pound hammer dropped 24" inches, except where otherwise noted.
- (C) Blows per 6 inches on sample spoon, 2 inches O.D. and 1 1/8 inches I.D. using 140 pound hammer dropped 30 inches, except where otherwise noted. The symbol P indicates that the soil sampler was pushed into the subsoil by hand or by the weight of the hammer.
- (D) Ground Water Depth G.W. see General Note 2e.
- (E) Undisturbed Sample - 3 inch diameter, pressed hydraulically unless otherwise noted.
- (F) Rock or Boulder Drilling Data D = Length drilled, R = amount recovered of length drilled using NX diamond bit, unless otherwise noted. Where indicated, the pieces refer to the number of natural breaks in the recovered core as evaluated by the Government Inspector or Geologist.
- (G) RB - Roller Bit

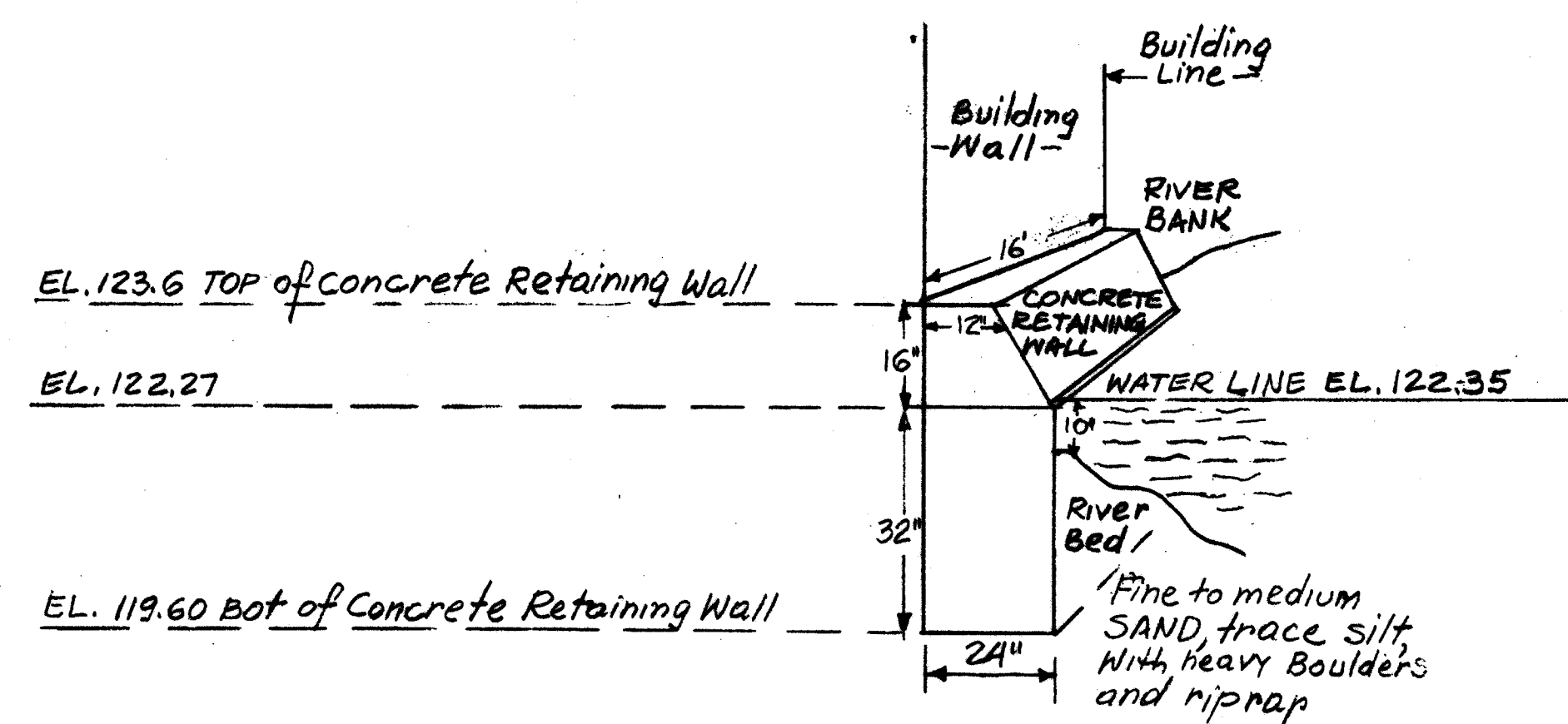
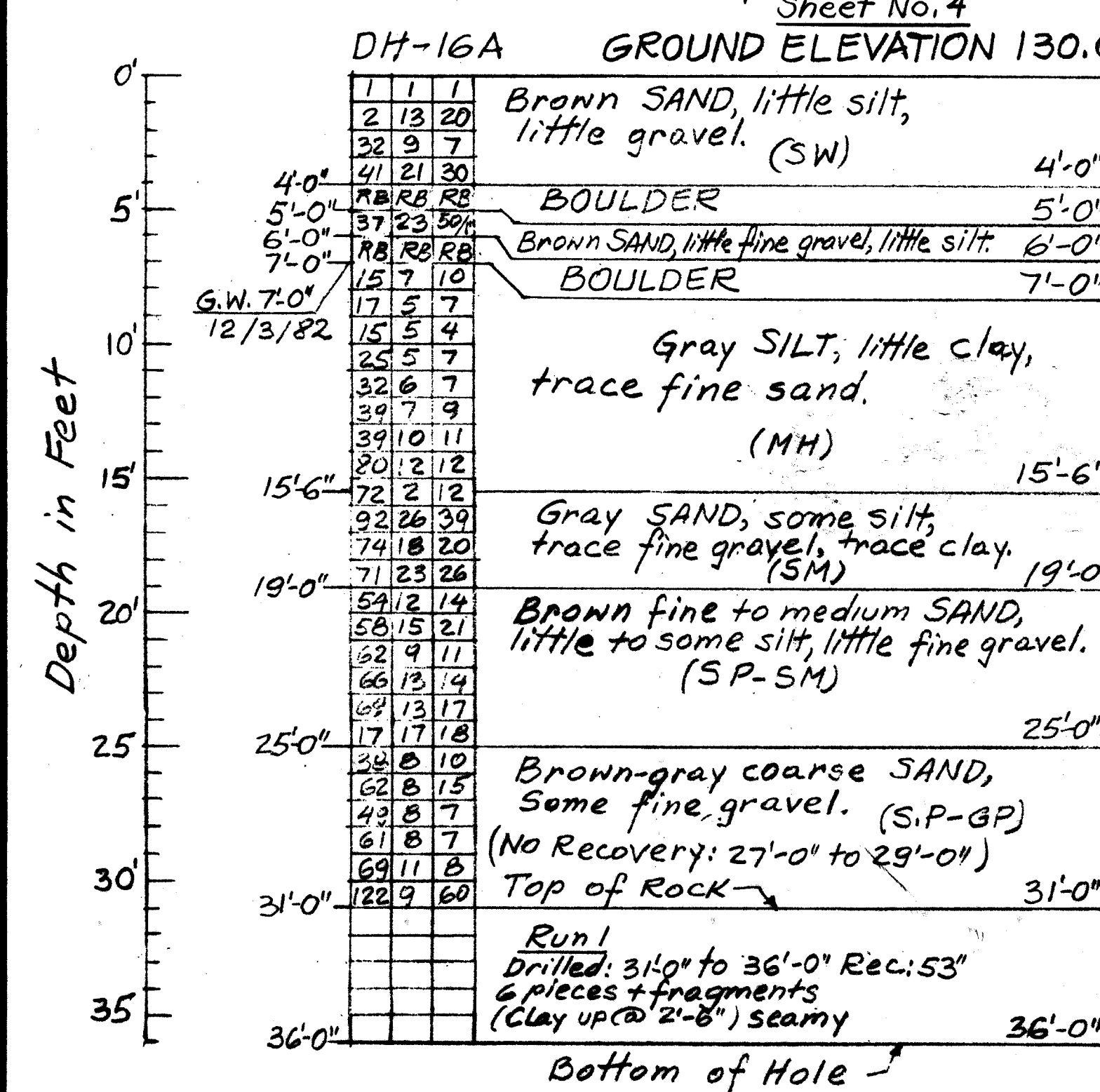
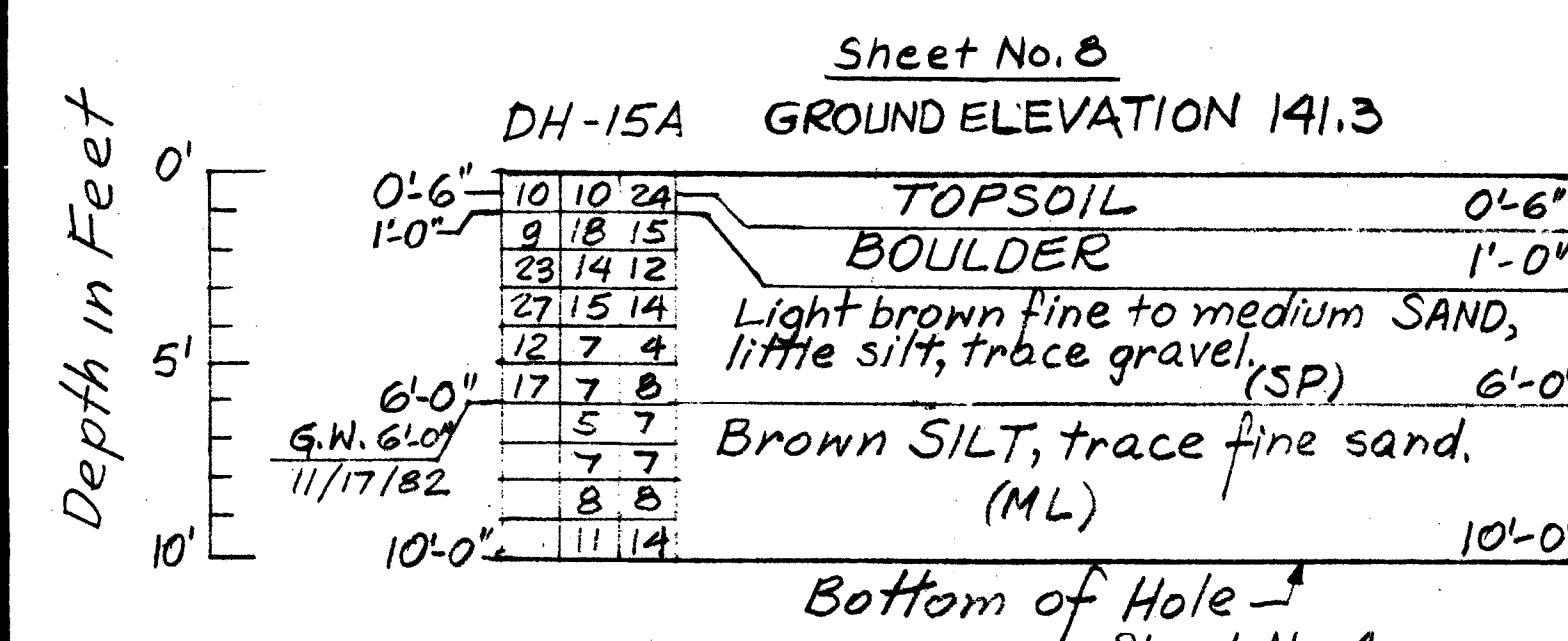
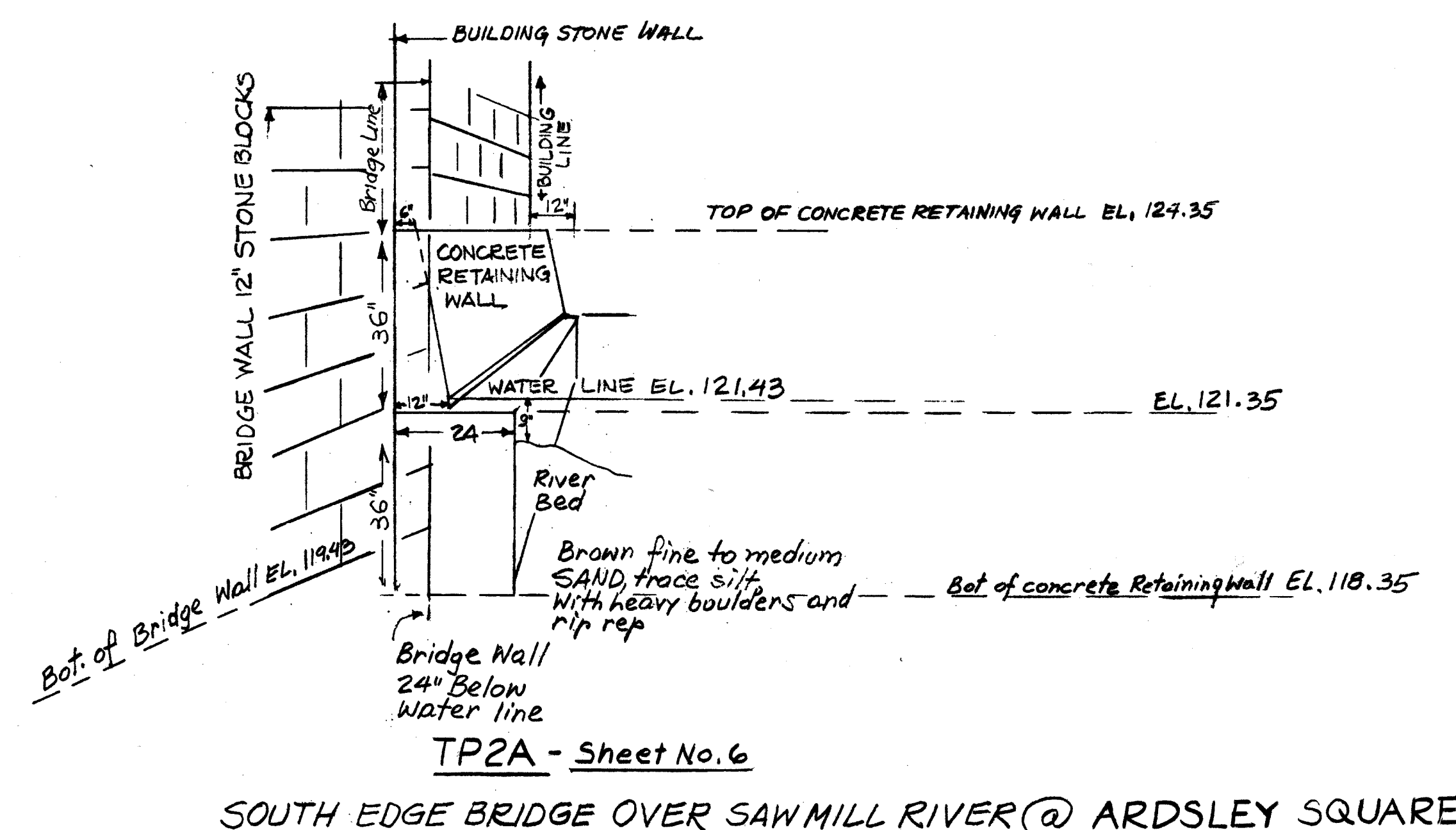
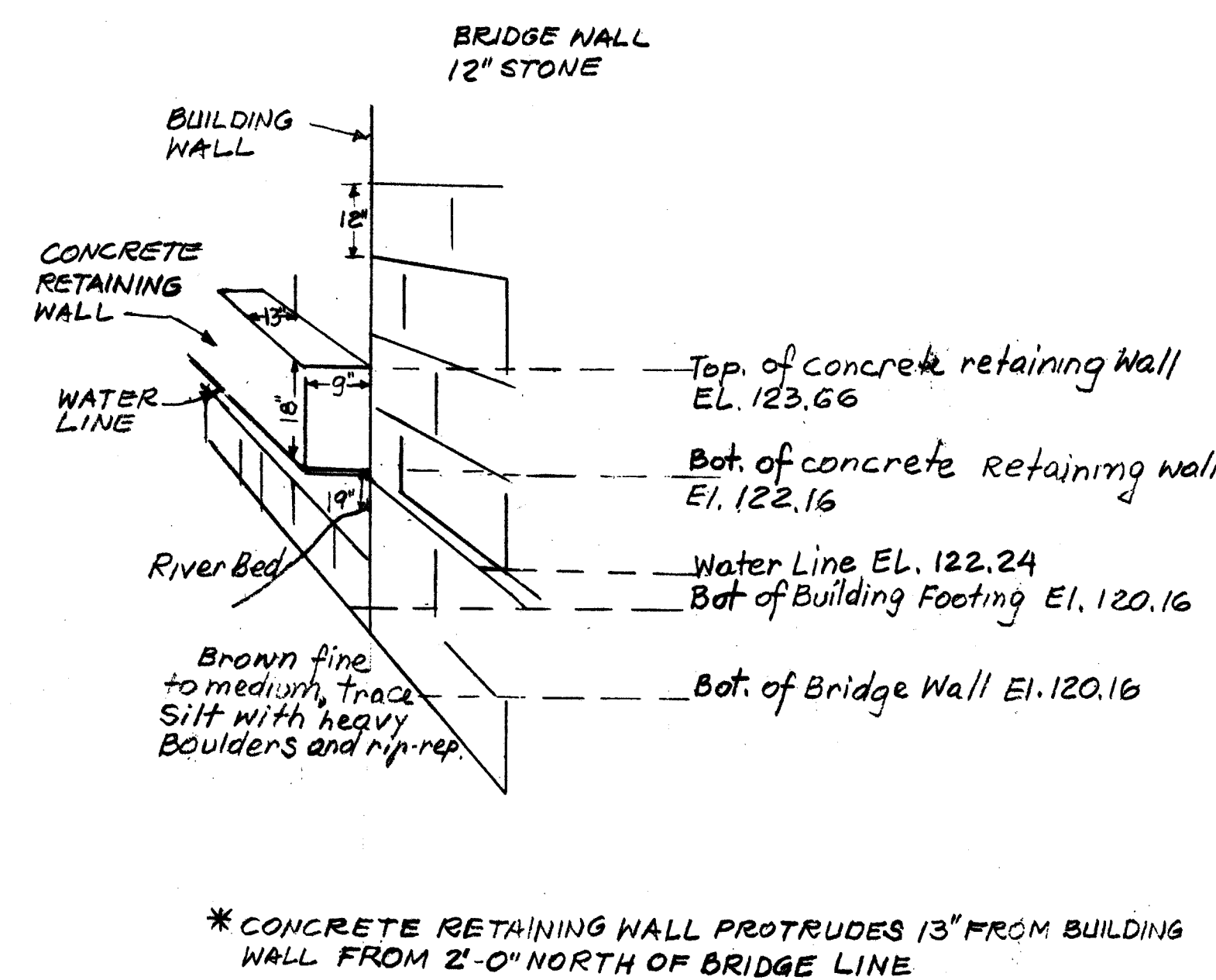
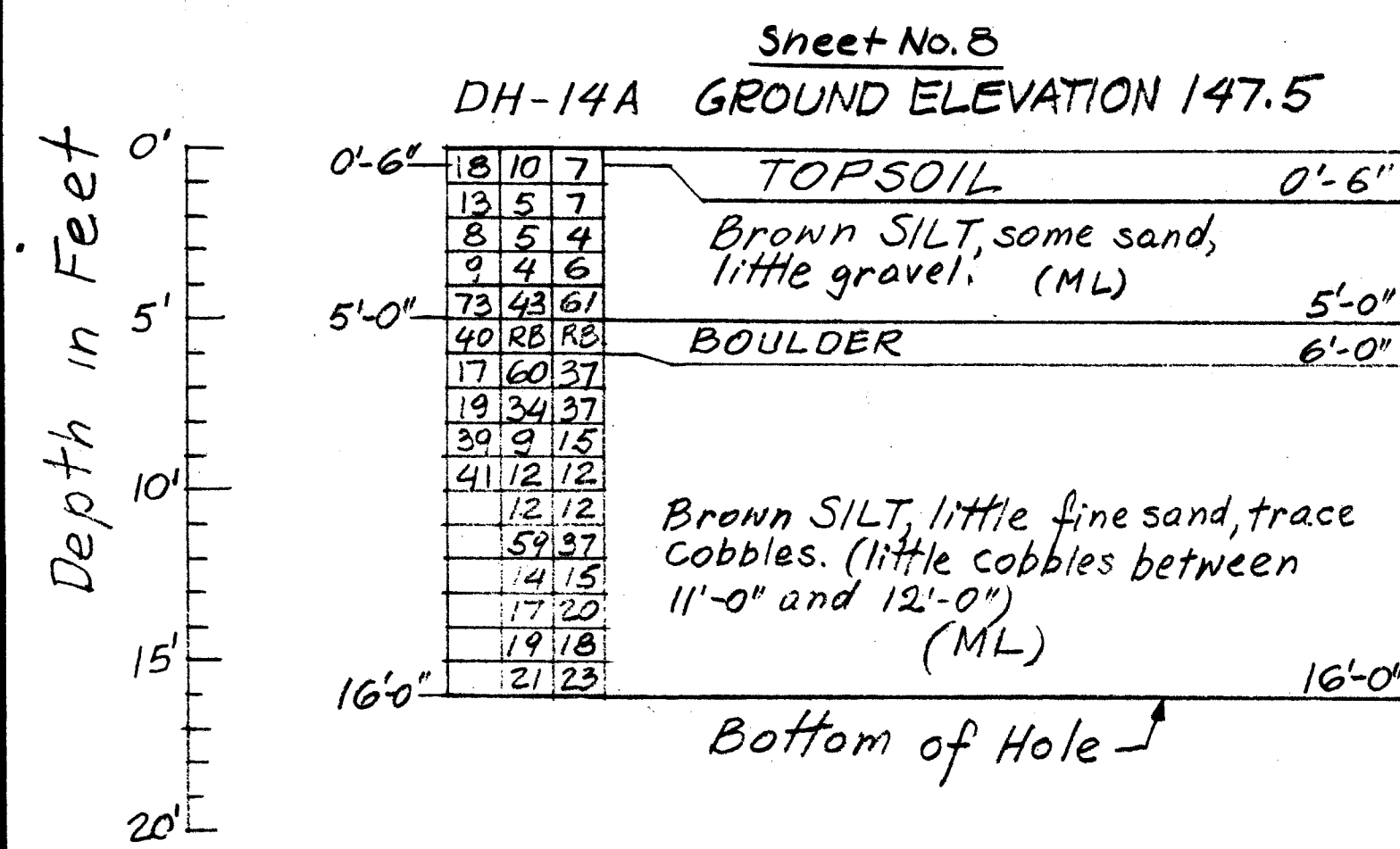
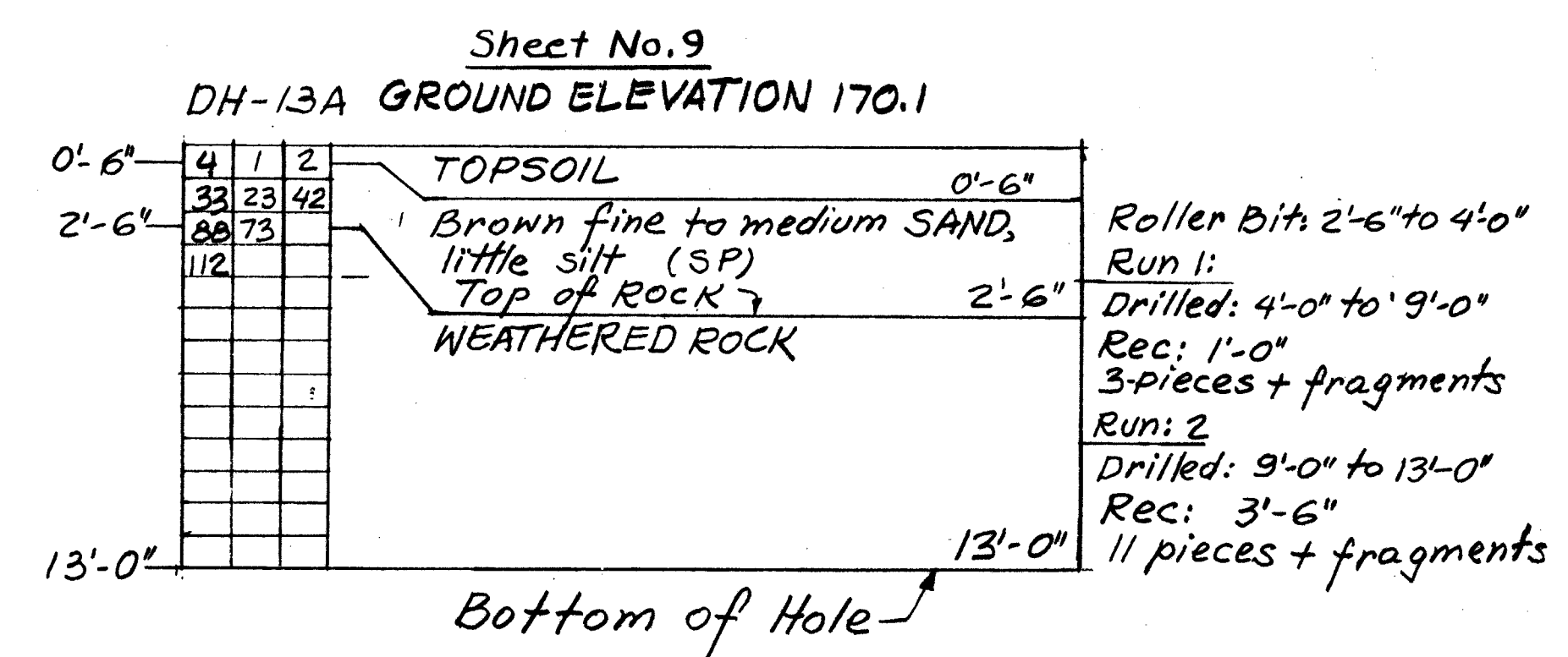
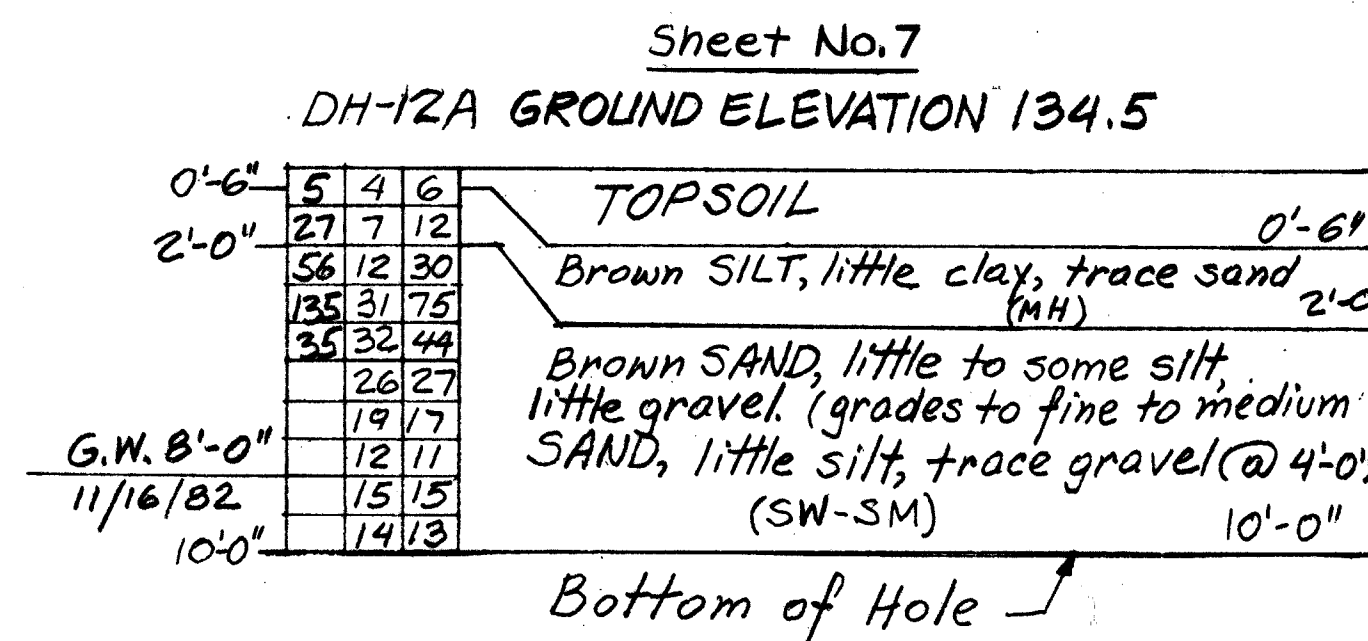
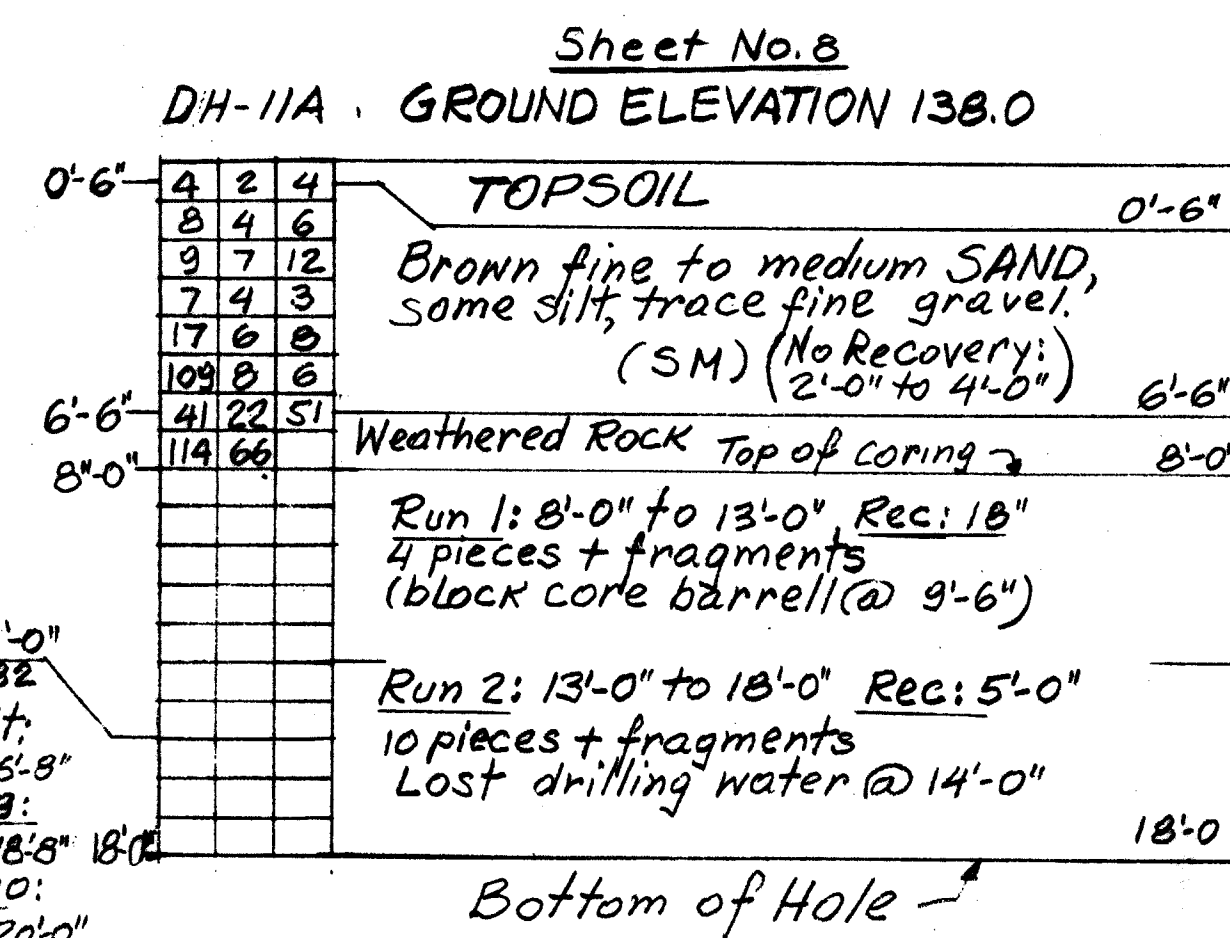
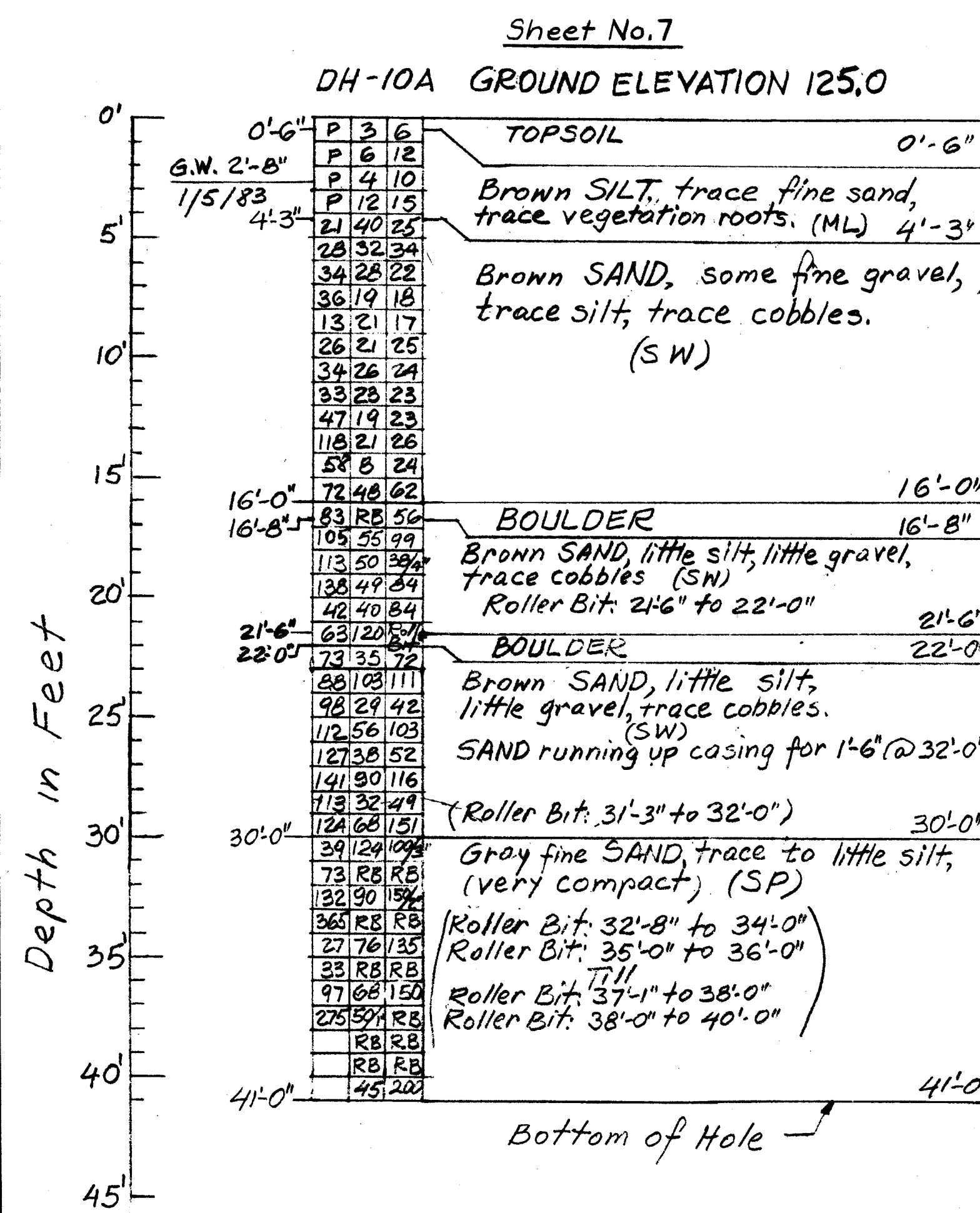
General Subsurface Exploration Notes: Continued

(H) The Government is aware that there are previous subsurface explorations performed by other agencies in the project area. However, due to doubts as to the reliability and accuracy of this data, it has not been included in the plans and specifications. This information is available to prospective bidders for their evaluation and interpretation. The Government makes no claims as to this data's validity for inspection of this data contact Chief, Foundations and Materials Section, at (212) 264-9111.

Subsurface explorations were performed during Nov-Dec. 1982

RECORD DRAWING OF WORK ASSUMED

REVISION	DATE	DESCRIPTION	BY
DEPARTMENT OF THE ARMY NEW YORK DISTRICT, CORPS OF ENGINEERS NEW YORK, NEW YORK DRAWN BY: SAW MILL RIVER, NEW YORK CHECKED BY: ARDSLEY FLOOD CONTROL PROJECT INSPECTED BY: SUB-SURFACE EXPLORATIONS NEW YORK SUBMITTED: C. Zeman RECOMMENDED: Stanley Fisher APPROVED: M. A. [Signature] DATE: 20 JULY 1987 SCALE: AS SHOWN DRAWING NUMBER: CC-ARD-439 SHEET 3 OF 44			



FOR GENERAL SUBSURFACE EXPLORATION NOTES, SEE SHEET NO. 39

RECORD DRAWING
OF WORK AS-BUILT

REVISION	DATE	DESCRIPTION	BY

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
NEW YORK, NEW YORK

DRAWN BY: SAW MILL RIVER, NEW YORK

CHECKED BY: ARDSLEY FLOOD CONTROL PROJECT

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