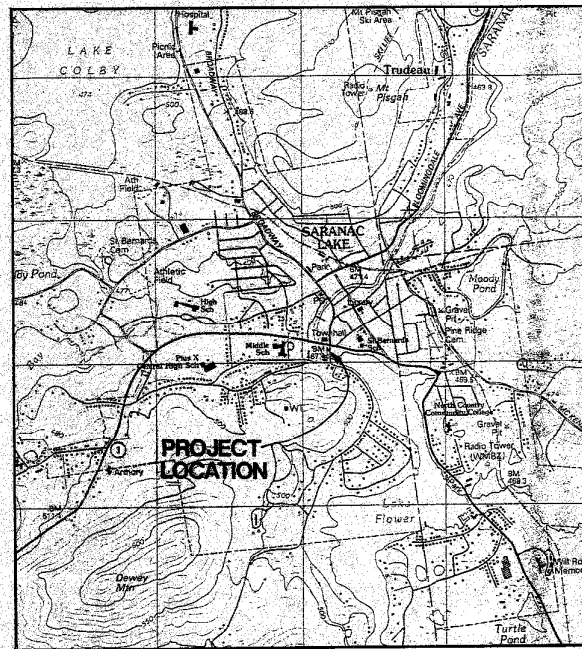


VILLAGE OF SARANAC LAKE

LAKE FLOWER HYDRO

JUNE, 1994

LOCATION MAP



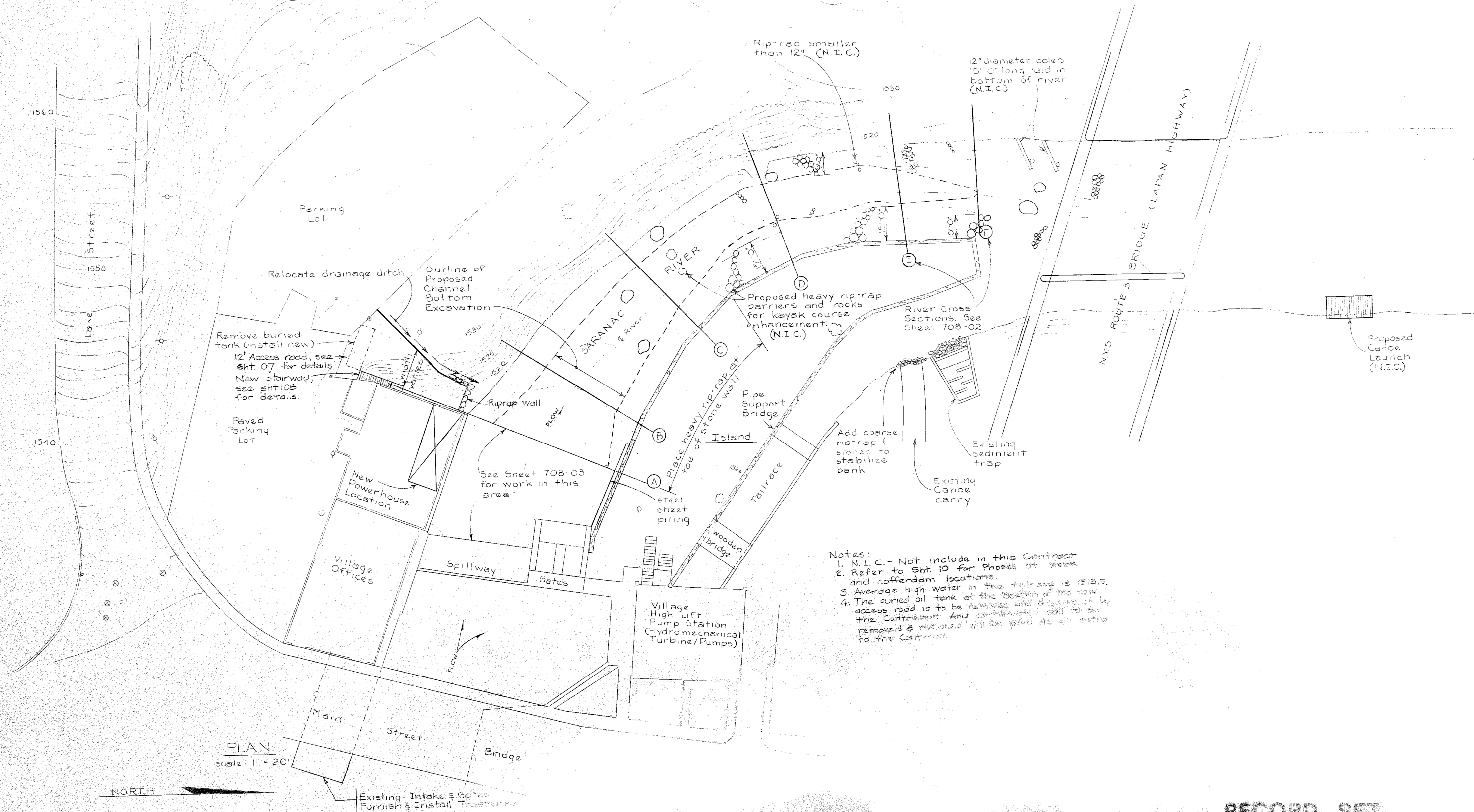
DRAWING INDEX

SHEET NO.	TITLE
708-01	SITE PLAN
708-02	TAILRACE EXCAVATION
708-03	RIVER WORK PLAN
708-04	SECTIONS
708-05	SECTIONS
708-06	EXISTING WATER CHAMBER AND UNDERPINNING
708-07	TRASHRACKS
708-08	POWERHOUSE MODIFICATIONS
708-09	HOIST RAIL DETAILS
708-10	SEDIMENT/EROSION CONTROL PLAN/COFFERDAMS

RECORD SET

Feb. 1, 1995

CHRISTIE ENGINEERING
MALONE, NEW YORK



- Notes:
1. N.I.C. - Not include in this Contract
 2. Refer to Sht. 10 for Phases of work and cofferdam locations.
 3. Average high water in the tailrace is 518.5.
 4. The buried oil tank at the location of the new access road is to be removed and disposed of by the Contractor. Any contaminated soil to be removed & nucleus will be paid as an extra to the Contractor.

PLAN
Scale: 1" = 20'

NORTH

RECORD SET

Revisions	
5-23-94	
8-10-94	
8-15-94	
Record Set	
2-1-95	

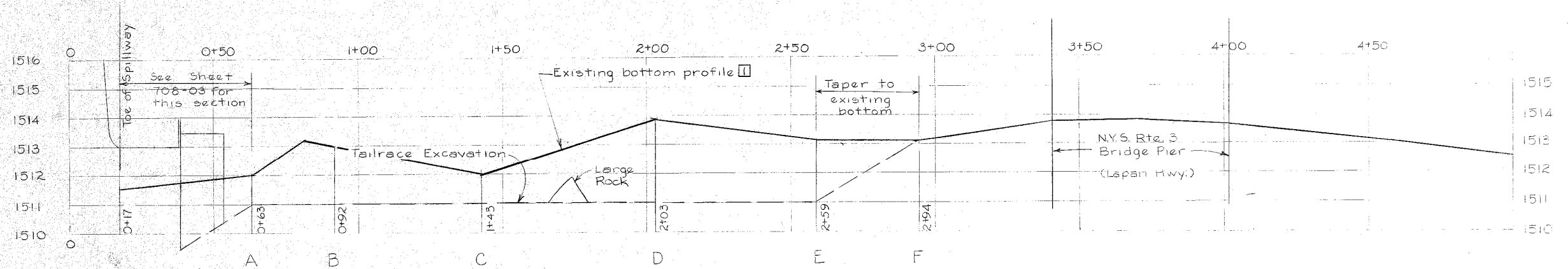
SCALE	as noted
DATE	8-19-92

CHRISTIE ENGINEERING
Consulting Engineers
5 East Main • Malone • New York



VILLAGE OF SARANAC LAKE
LAKE FLOWER HYDRO
SITE PLAN

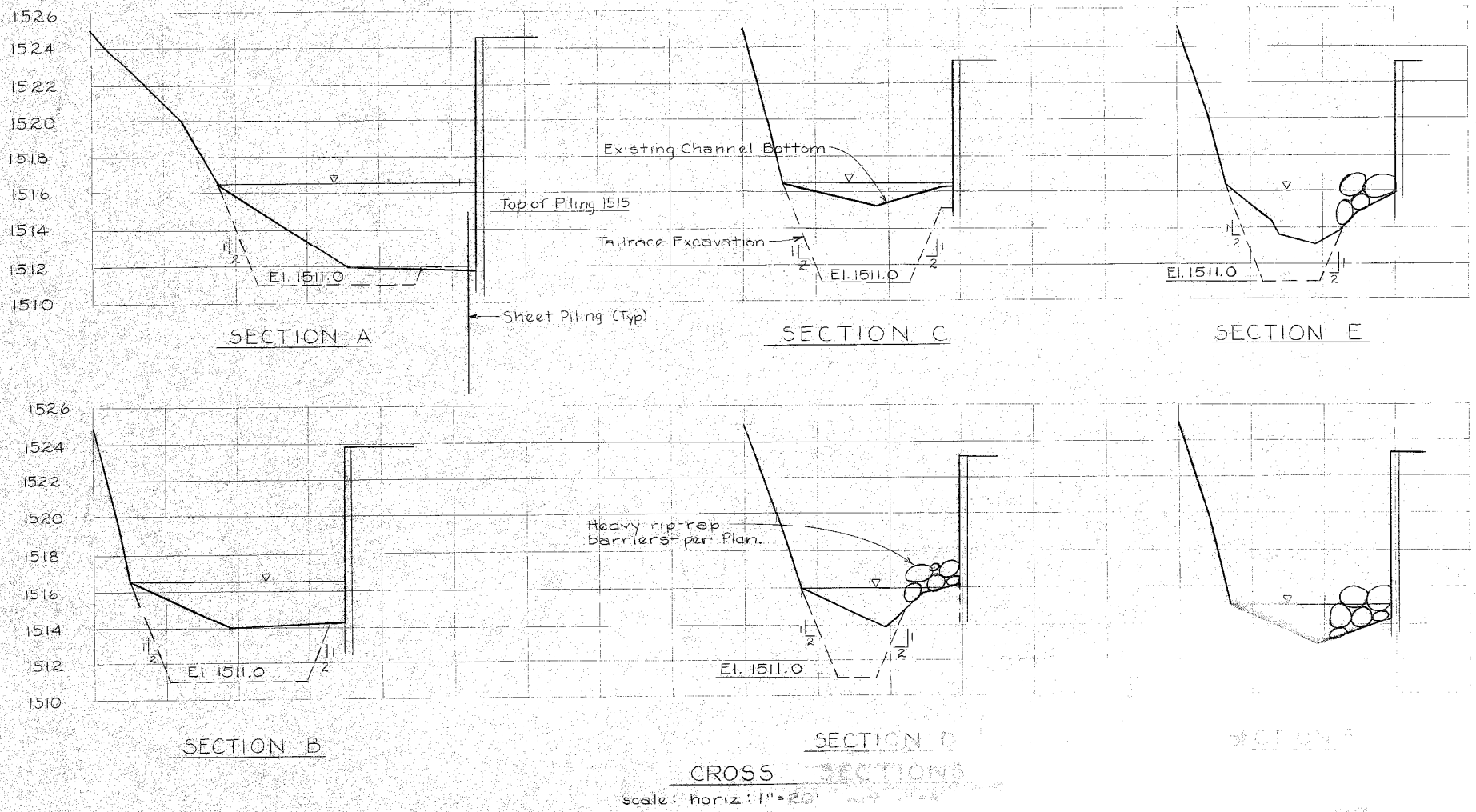
Drawing No. 708-01



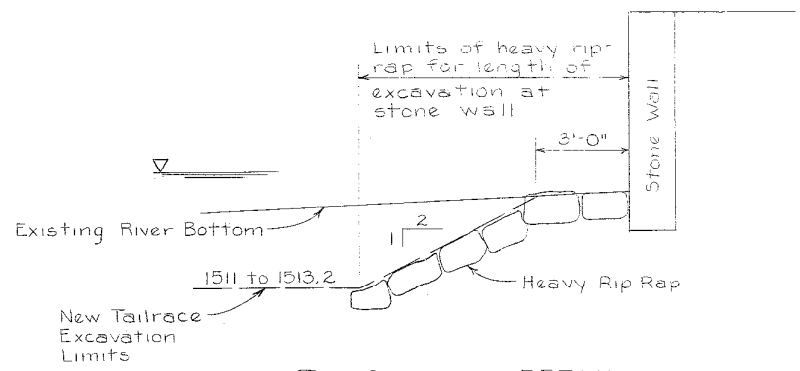
PROFILE OF RIVER BOTTOM AT CENTERLINE
 scale: horiz.: 1"=20' vert.: 1"=2'

NOTE:
 The bottom of the channel, after tailrace excavation, shall be left with coarse gravel and cobbles exposed. If this does not occur naturally with the excavation, coarse gravel and cobbles shall be spread over the exposed bottom. Material salvaged from the excavation may be used for this work.

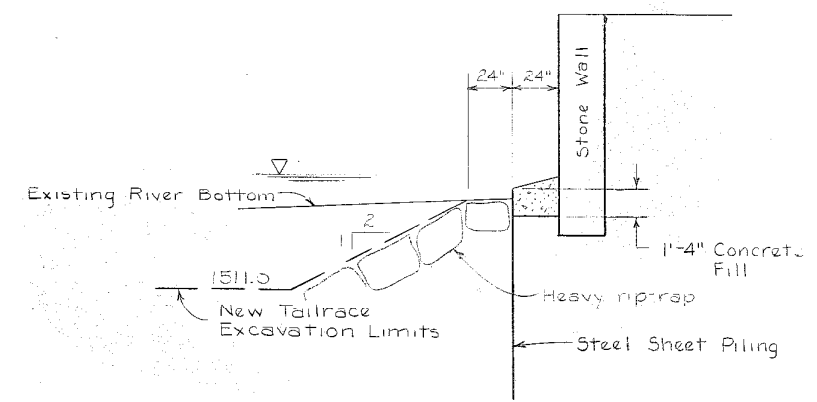
□ Riprap stockpiled on site (existing) and riprap removed during this excavation may be used in this project where riprap is needed.



CROSS SECTIONS
 scale: horiz.: 1"=20' vert.: 1"=2'



TYPICAL WALL DETAIL AT HEAVY RIP-RAP



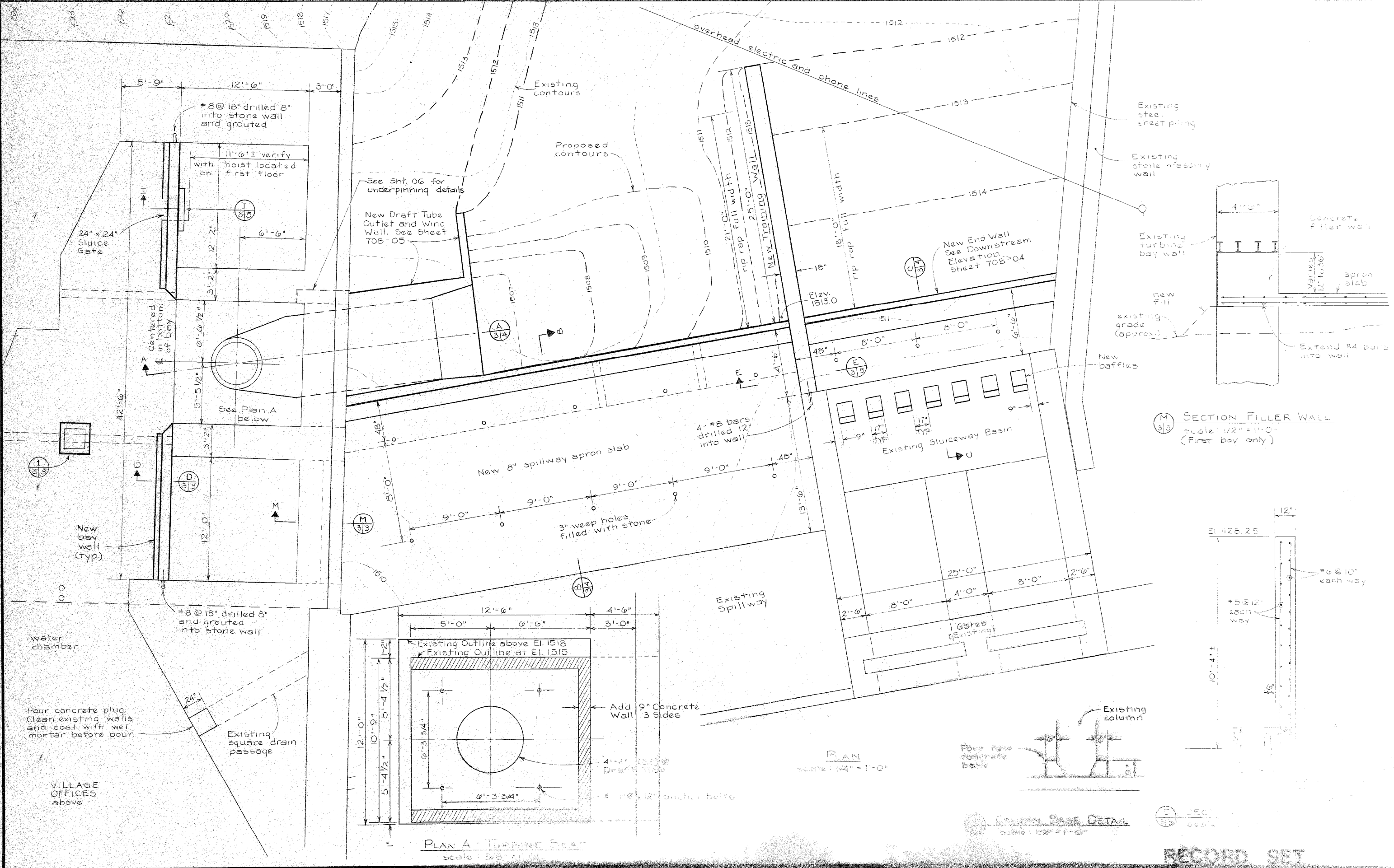
TYPICAL WALL DETAIL AT SHEET PILING

RECORD SET

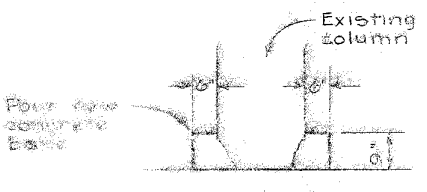
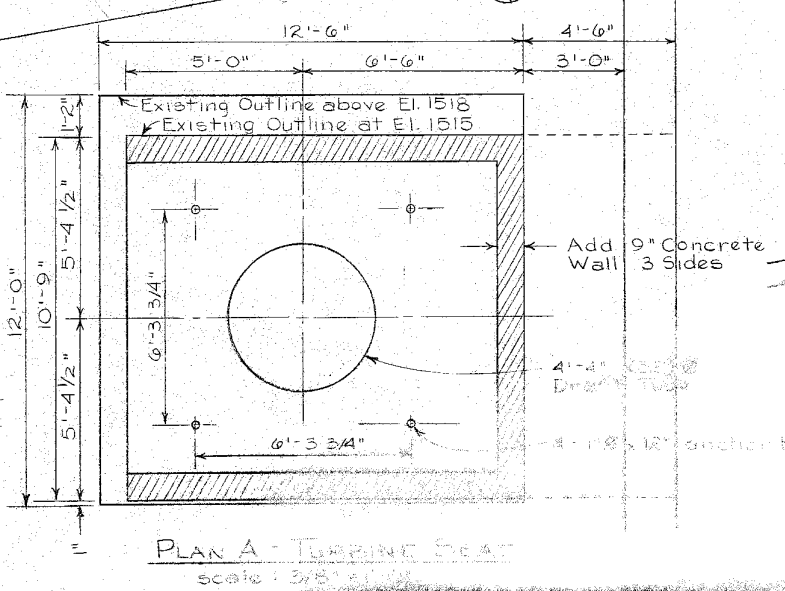
Revisions	6-10-94	SCALE	as noted
	9-29-94	DATE	5-23-94
	Addendum		
	Record Set		
	2-1-95		

CHRISTIE ENGINEERING
 Consulting Engineers
 8 West Main - Madison - New York

VILLAGE OF SARANAC LAKE
 LARS FLOWER HYDRO
 TAILRACE GRADING
 Profile & Cross Sections
 Drawing No. 70A-12



(M) SECTION FILLER WALL
scale: 1/2" = 1'-0"
(First bay only)

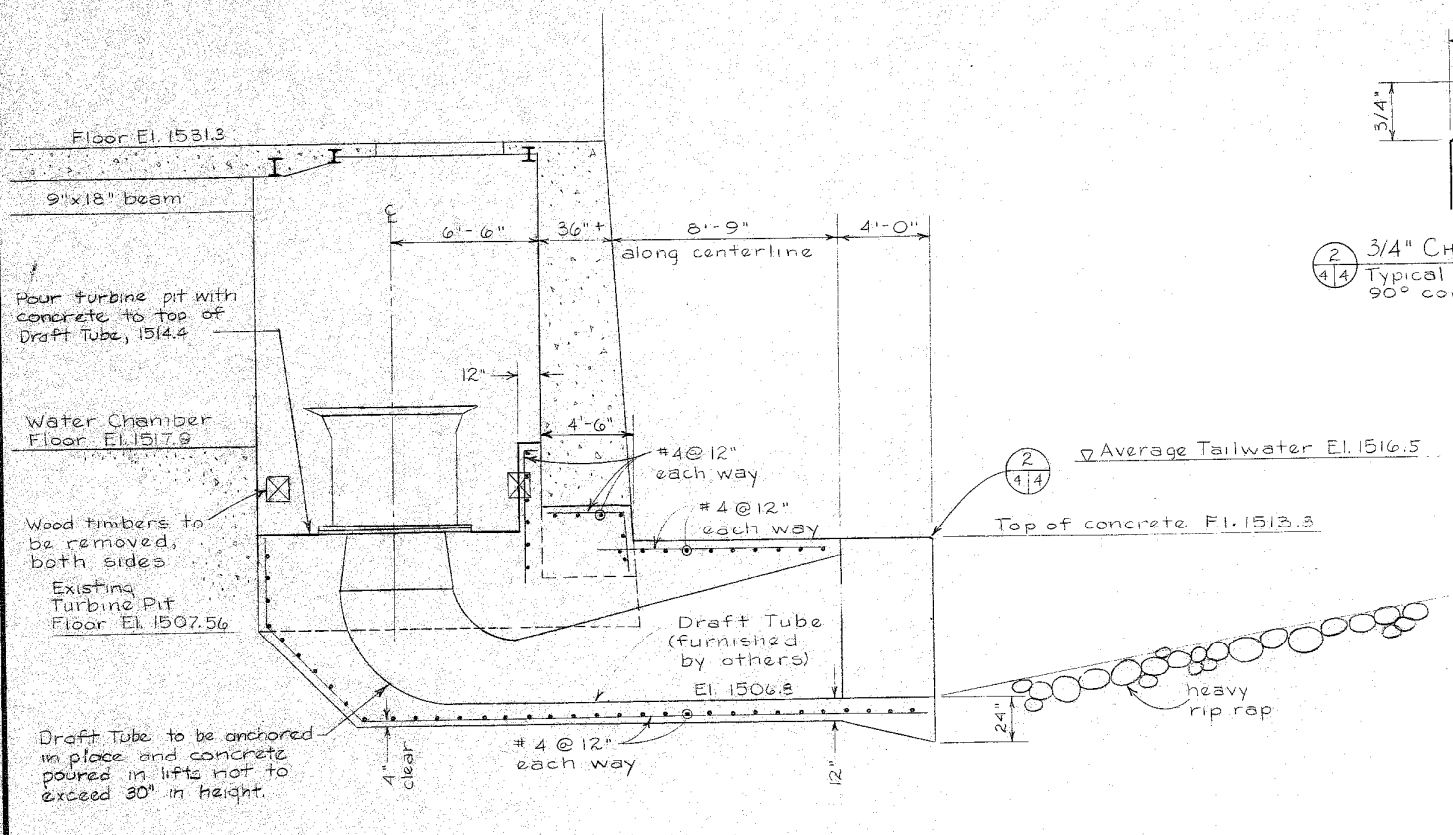


Revisions	SCALE
Record Set 2-1-95	as noted
	DATE
	6-10-94

CHRISTIE ENGINEERING
Consulting Engineers
8 West Main • Malone • New York

VILLAGE OF SARANAC LAKE
LAKE FLOWER HYDRO
RIVER WORK PLAN
Drawing No. 70A-11

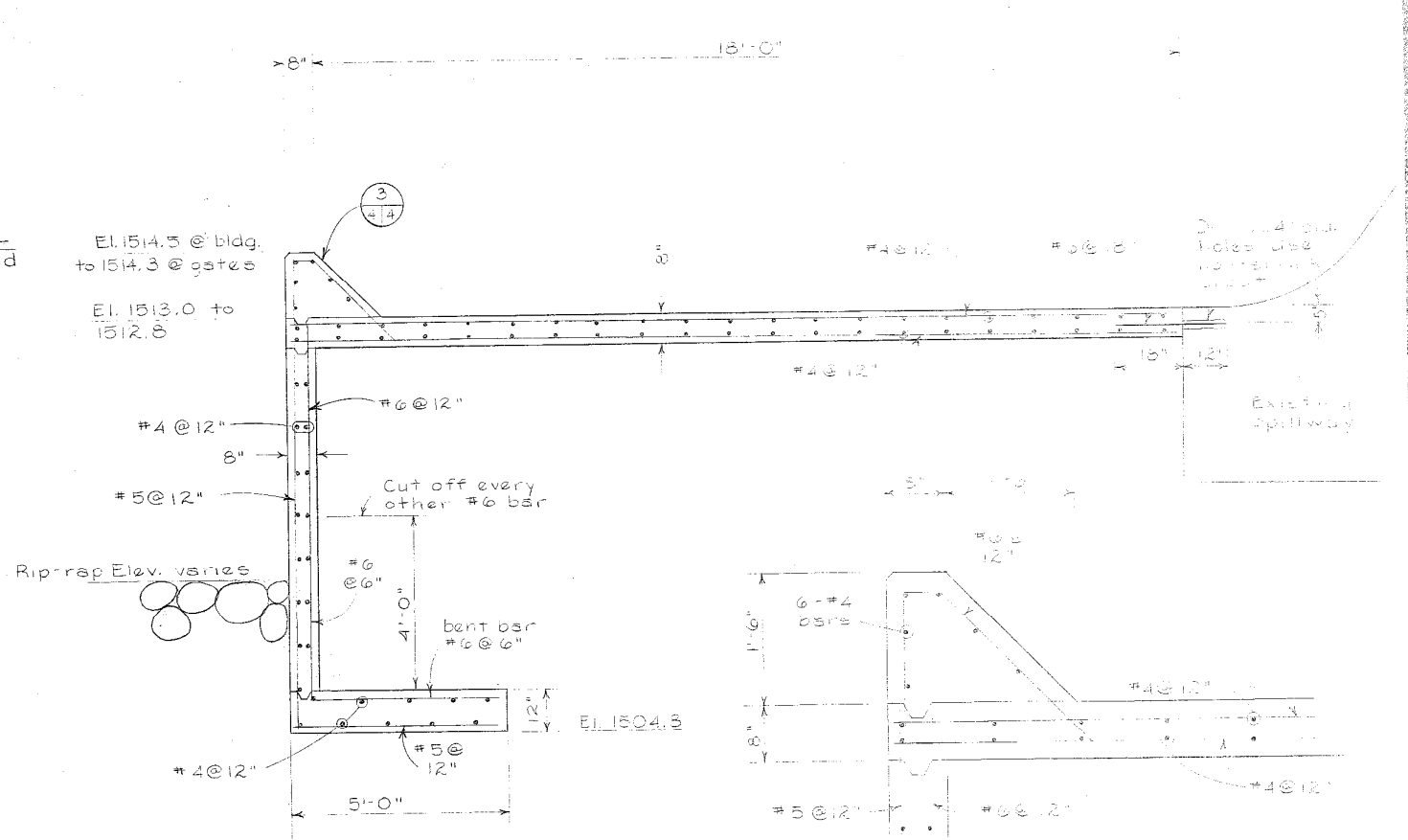
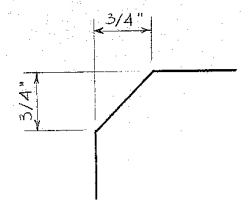
RECORD SET



(A) SECTION THRU DRAFT TUBE
scale: 1/4" = 1'-0"

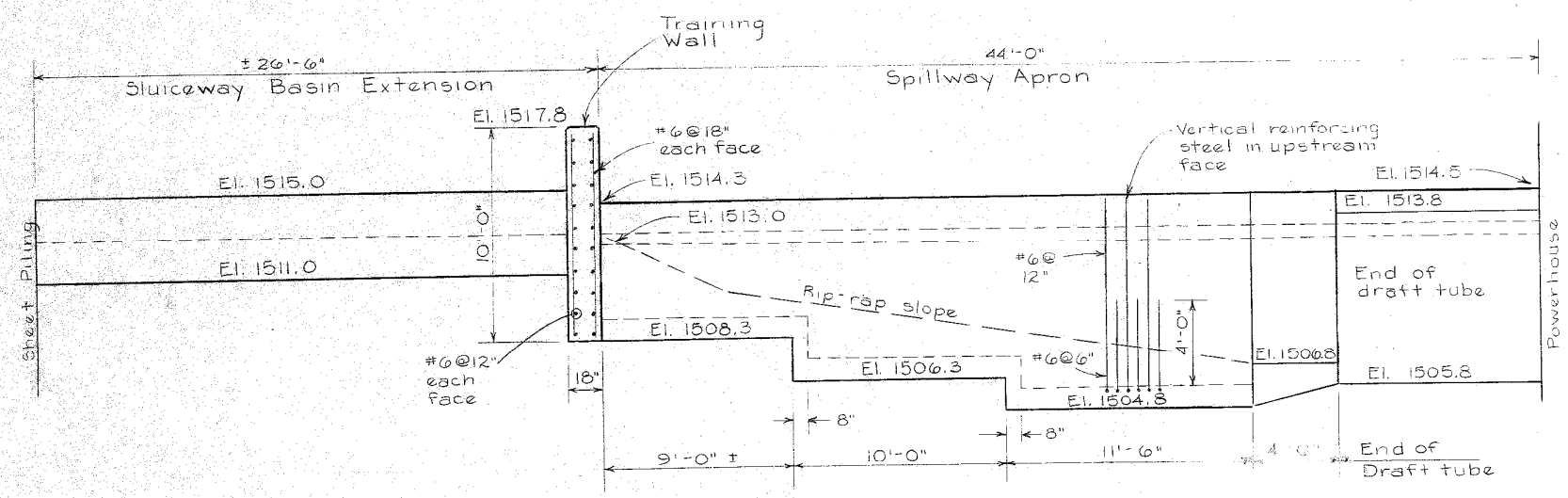
(2) 3/4" CHAMFER DETAIL
(4) Typical for all exposed 90° corners

Note: Concrete pouring sequence to be as shown.

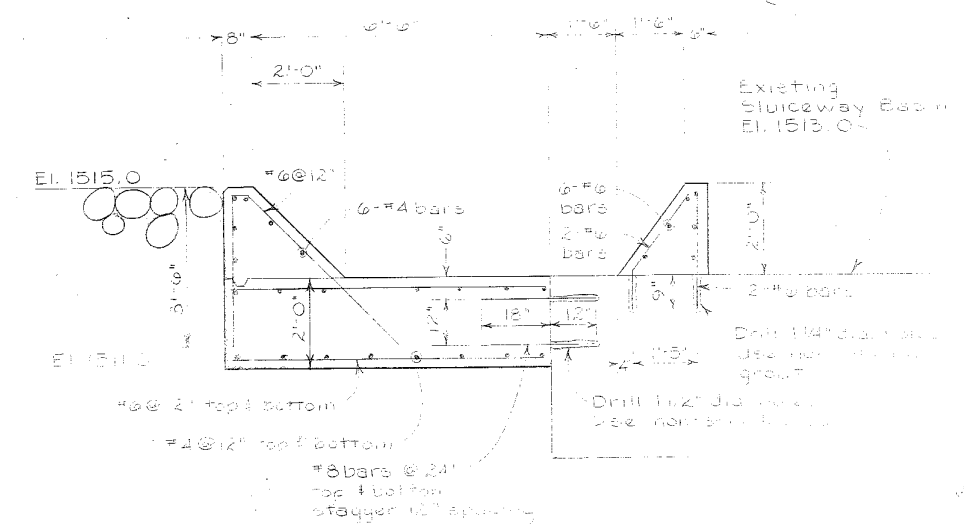


(B) SECTION SPILLWAY APRON
scale: 1/2" = 1'-0"

(C) SPILLWAY TOE DETAIL
scale: 1/2" = 1'-0"



DOWNSTREAM END WALL ELEVATION
scale: 1/4" = 1'-0"

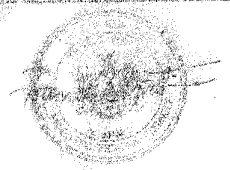


(D) SECTION SPILLWAY TOE
scale: 1/2" = 1'-0"

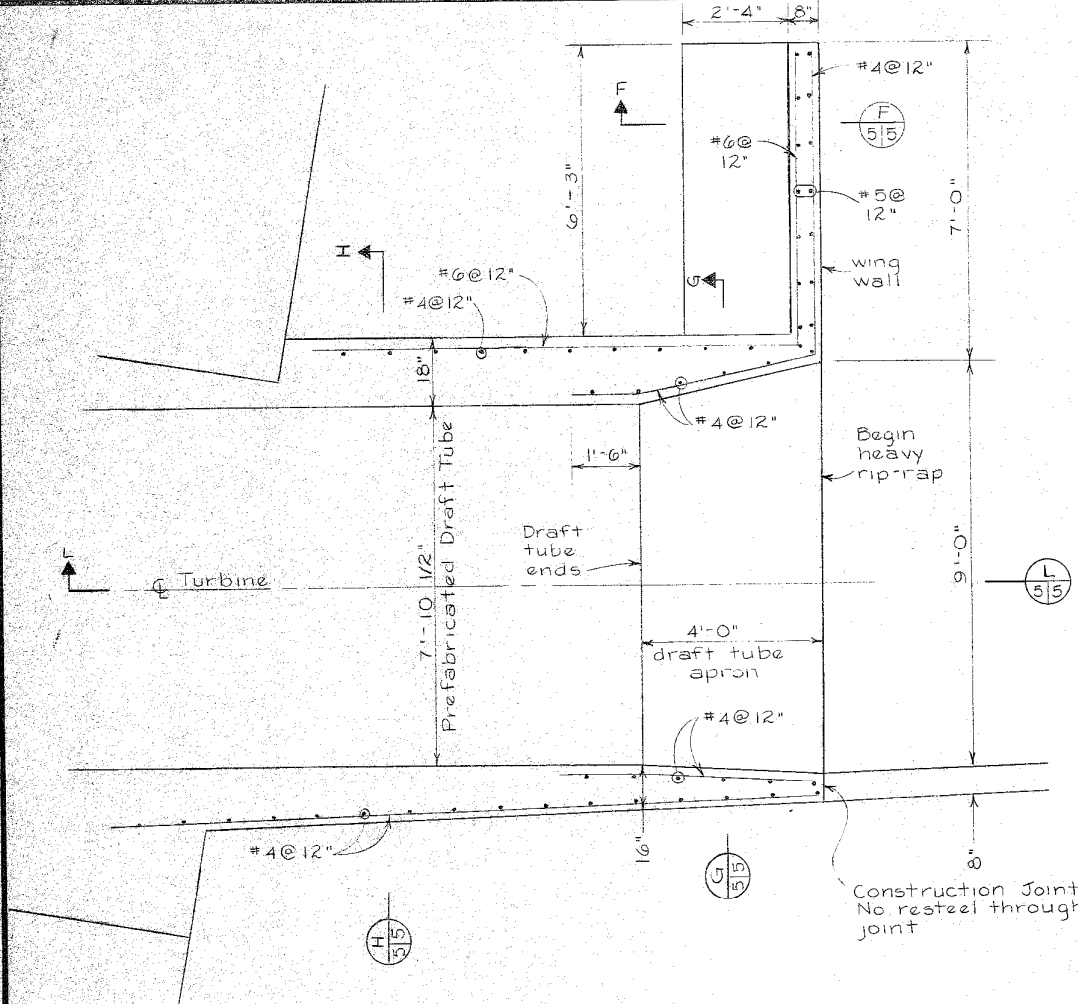
RECORD SET

Revisions	SCALE	as noted
	DATE	6-10-94

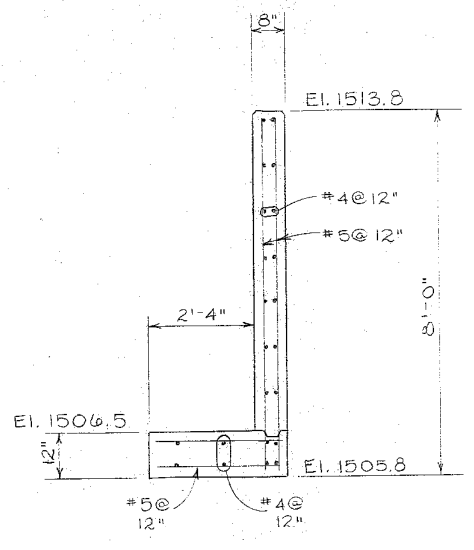
CHRISTIE ENGINEERING
Consulting Engineers
8 First St. - Malone - New York



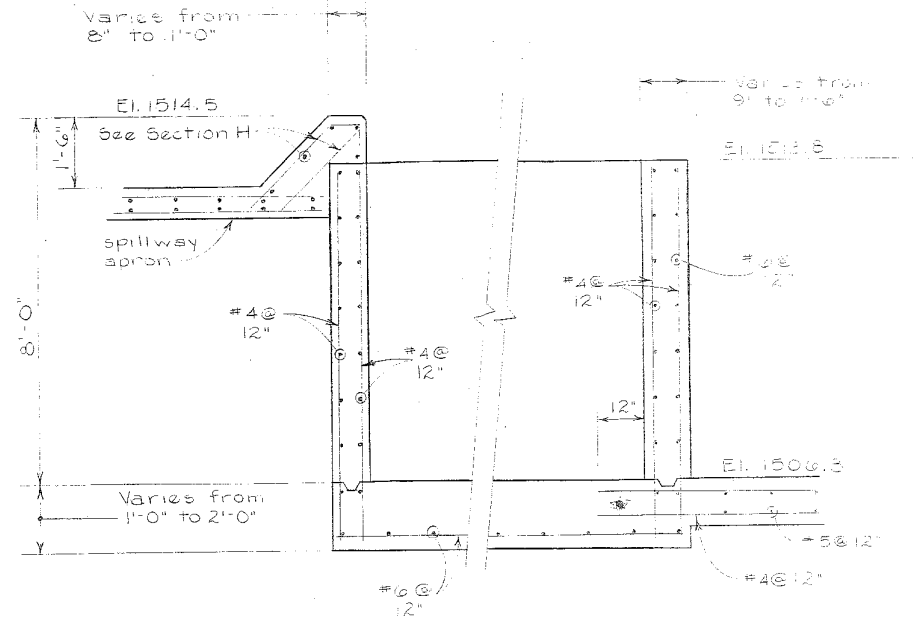
VILLAGE OF SARANAC LAKE
LAKE FLOWER HYDRO
SECTIONS
Drawing No. 705-04



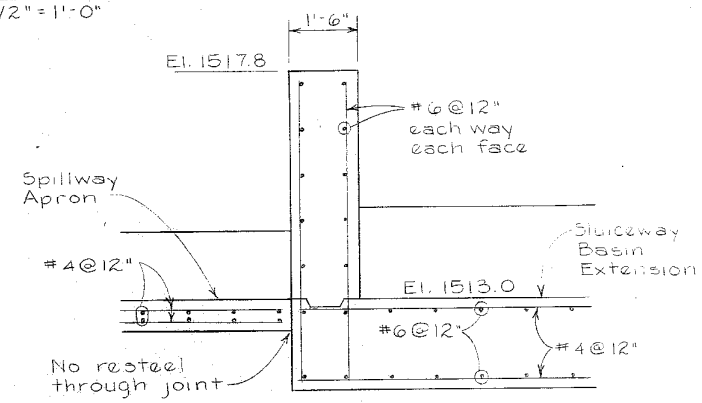
DRAFT TUBE OUTLET PLAN
scale: 1/2" = 1'-0"



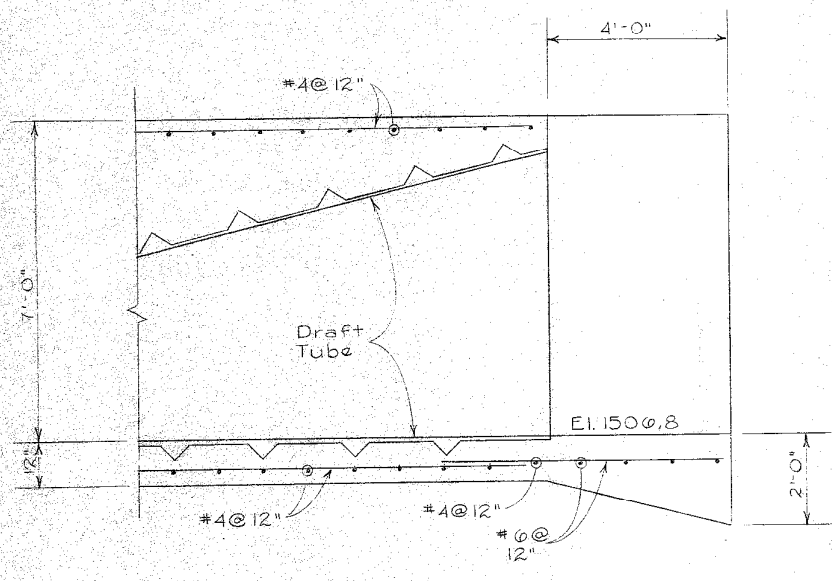
WING WALL SECTION
scale: 1/2" = 1'-0"



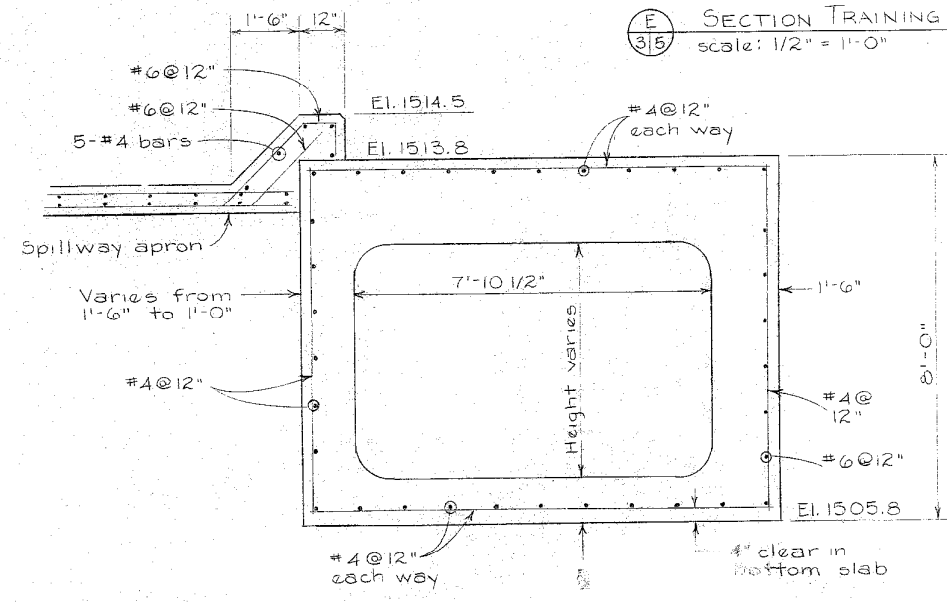
SECTION DRAFT TUBE APRON REINFORCEMENT
scale: 1/2" = 1'-0"



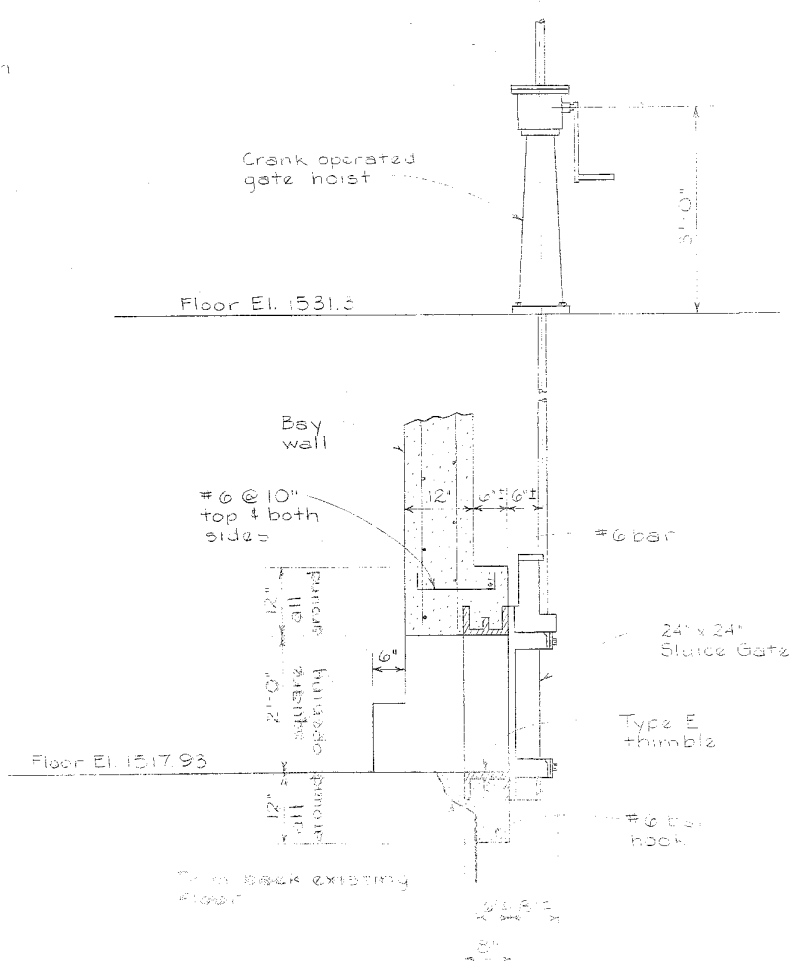
SECTION TRAINING WALL
scale: 1/2" = 1'-0"



SECTION DRAFT TUBE
scale: 1/2" = 1'-0"



DRAFT TUBE CONCRETE REINFORCEMENT
scale: 1/2" = 1'-0"



SLUICWAY GATE
scale: 1/2" = 1'-0"

RECORD SET

Revisions	
Record Set	2-1-95

SCALE	as noted
DATE	6-10-94

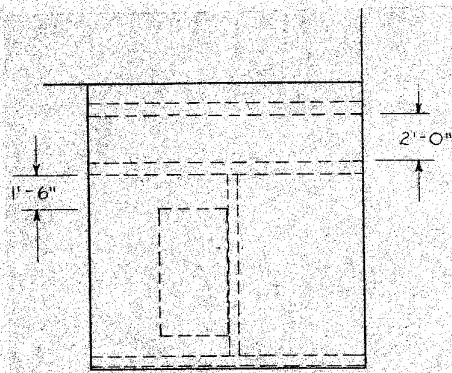
CHRISTIE ENGINEERING
Consulting Engineers
600 Madison Avenue - New York



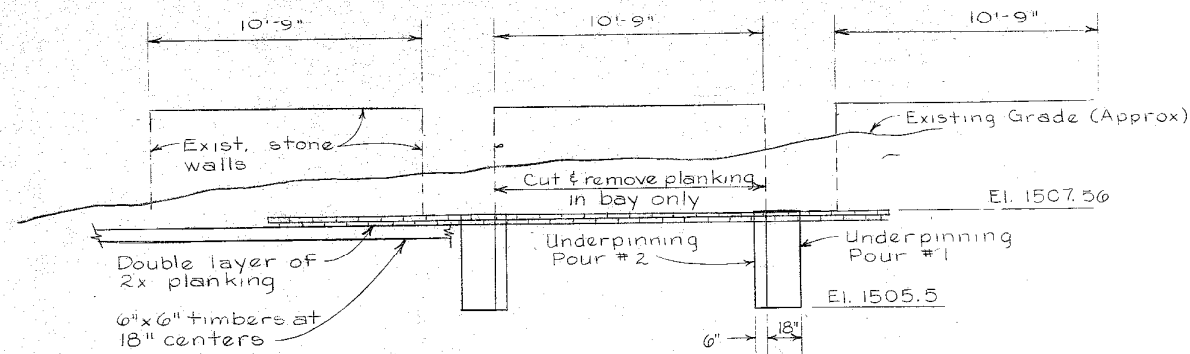
VILLAGES OF SARANAC LAKE
LAKE FLOWER PROJECT

SECTION 05

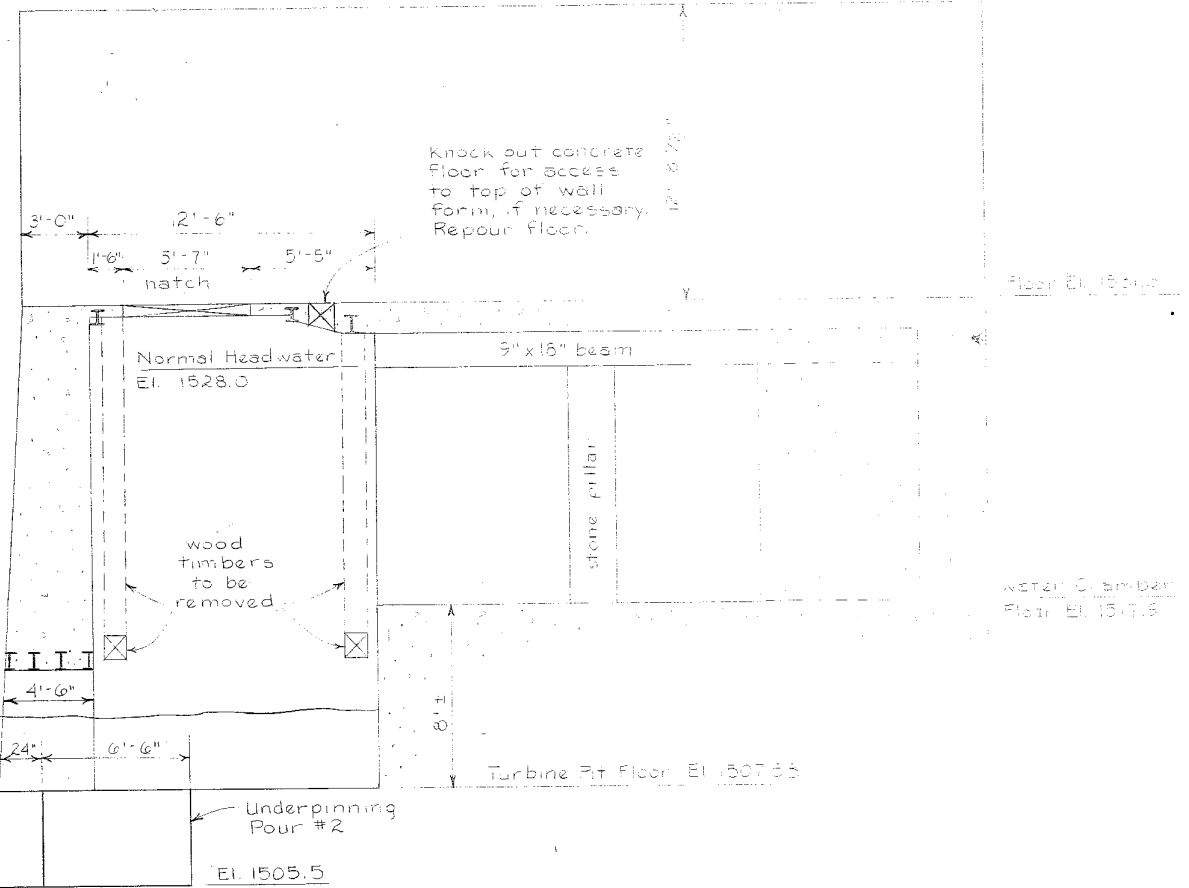
Draw. No. 108-01



Overhead Beams in End Bay (Typ.)



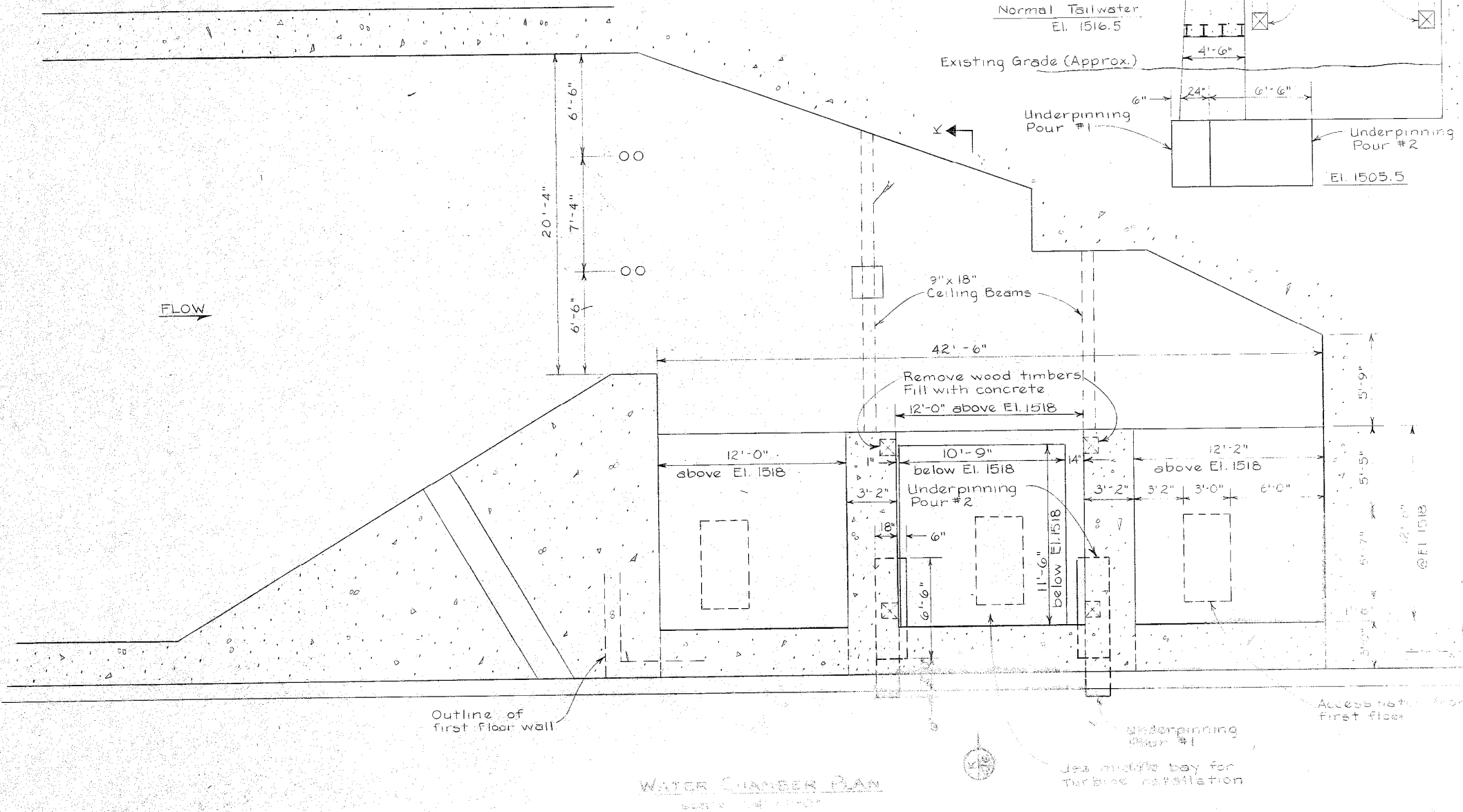
BAY ELEVATION
scale: 1/4" = 1'-0"



UNDERPINNING SECTION
scale: 1/4" = 1'-0"

UNDERPINNING PROCEDURE:

1. Remove existing soil material in middle bay to bottom of side stone walls.
2. Excavate area for underpinning Pour #1 at both walls and pour full of concrete.
3. After allowing Pour #1 to set for three full days, excavate area for underpinning Pour #2 at both walls and pour full of concrete. Allow Pour #2 to set for three full days before further excavation.
4. Do not excavate any other area below bottom of stone walls until Pour #2 under both walls has set for three full days.
5. Do not over-excavate holes for form work for underpinning Pour #1&2. Pour against undisturbed soil whenever possible. Plywood can be used to stabilize sides if necessary.

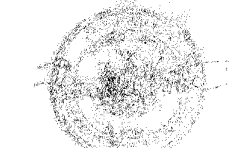


WATER CHAMBER PLAN
scale: 1/4" = 1'-0"

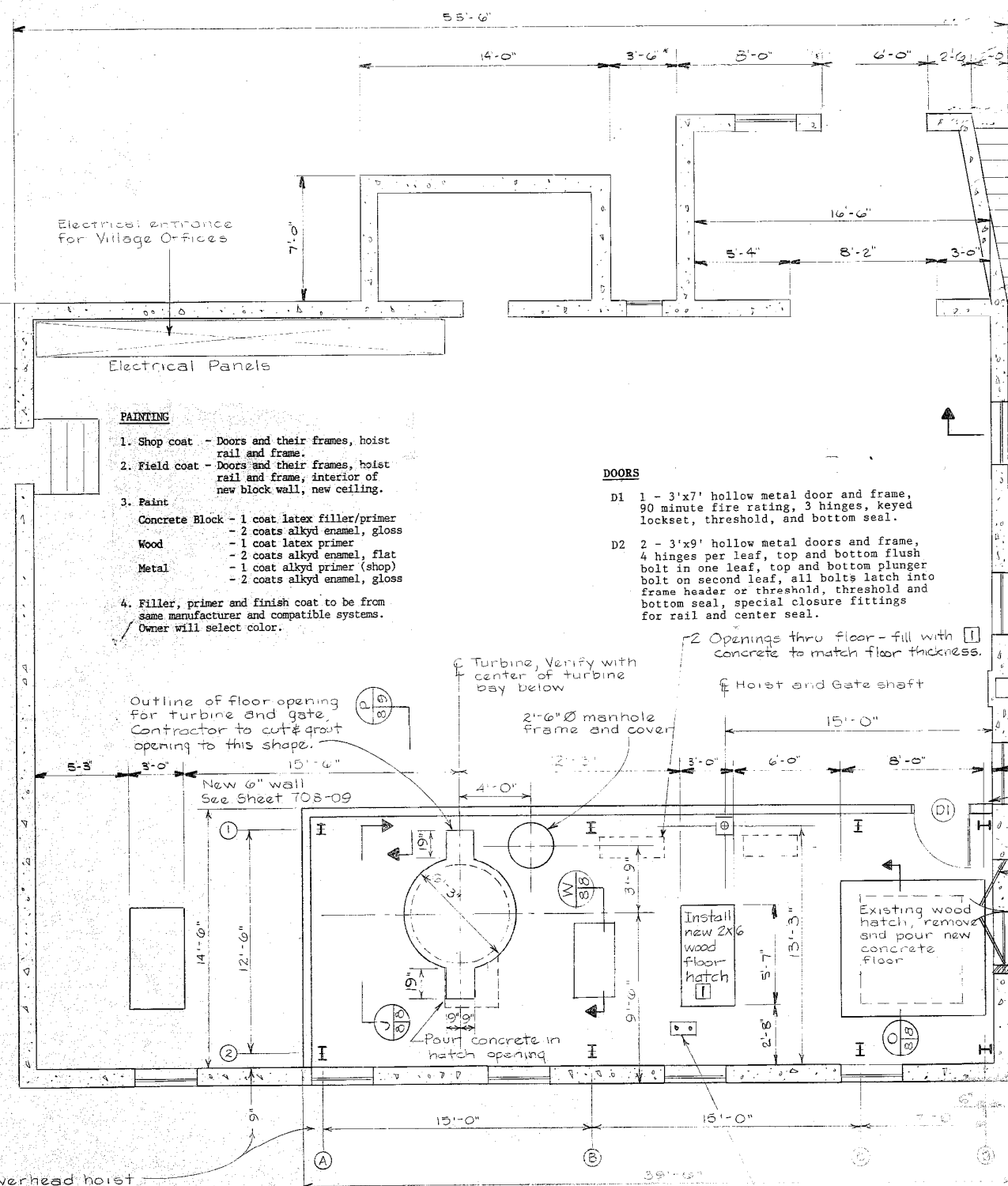
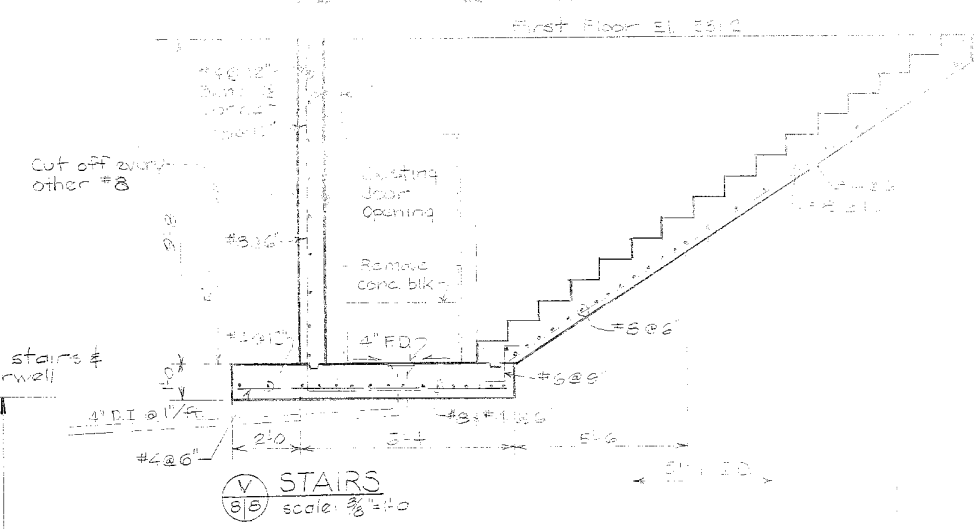
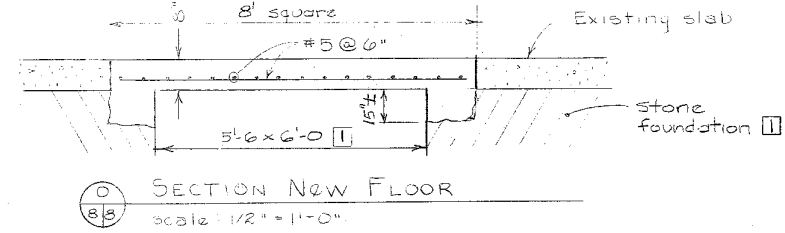
RECORD SET

Revisions	SCALE
Record Set	as noted
2-1-95	DATE
	6-10-94

CHRISTIE ENGINEERING
 Consulting Engineers
 8 East 44th Street, New York



VILLAGE OF BAYWOOD LANE
 LAKE PLACID, NY
 EXISTING WATER CHAMBER UNDERPINNING



- PAINTING**
- Shop coat - Doors and their frames, hoist rail and frame.
 - Field coat - Doors and their frames, hoist rail and frame, interior of new block wall, new ceiling.
 - Paint
 - Concrete Block - 1 coat latex filler/primer, 2 coats alkyd enamel, gloss
 - Wood - 1 coat latex primer, 2 coats alkyd enamel, flat
 - Metal - 1 coat alkyd primer (shop), 2 coats alkyd enamel, gloss
 - Filler, primer and finish coat to be from same manufacturer and compatible systems. Owner will select color.

- DOORS**
- D1 1 - 3'x7' hollow metal door and frame, 90 minute fire rating, 3 hinges, keyed lockset, threshold, and bottom seal.
- D2 2 - 3'x9' hollow metal doors and frame, 4 hinges per leaf, top and bottom flush bolt in one leaf, top and bottom plunger bolt on second leaf, all bolts latch into frame header or threshold, threshold and bottom seal, special closure fittings for rail and center seal.

Heating & Drain pipes in area of powerhouse to be removed for this construction.

2 doors (D2) see Sht. 09 for Details

Overhead hoist column lines See Sheet T08-09

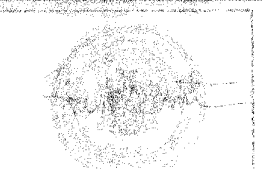
Old equipment supports in powerhouse and some from base B2, all have 2-1/2" anchor bolts. Remove base B2 and cut off bolts below floor. Grout area flush with floor using non-shrink grout.

flow →

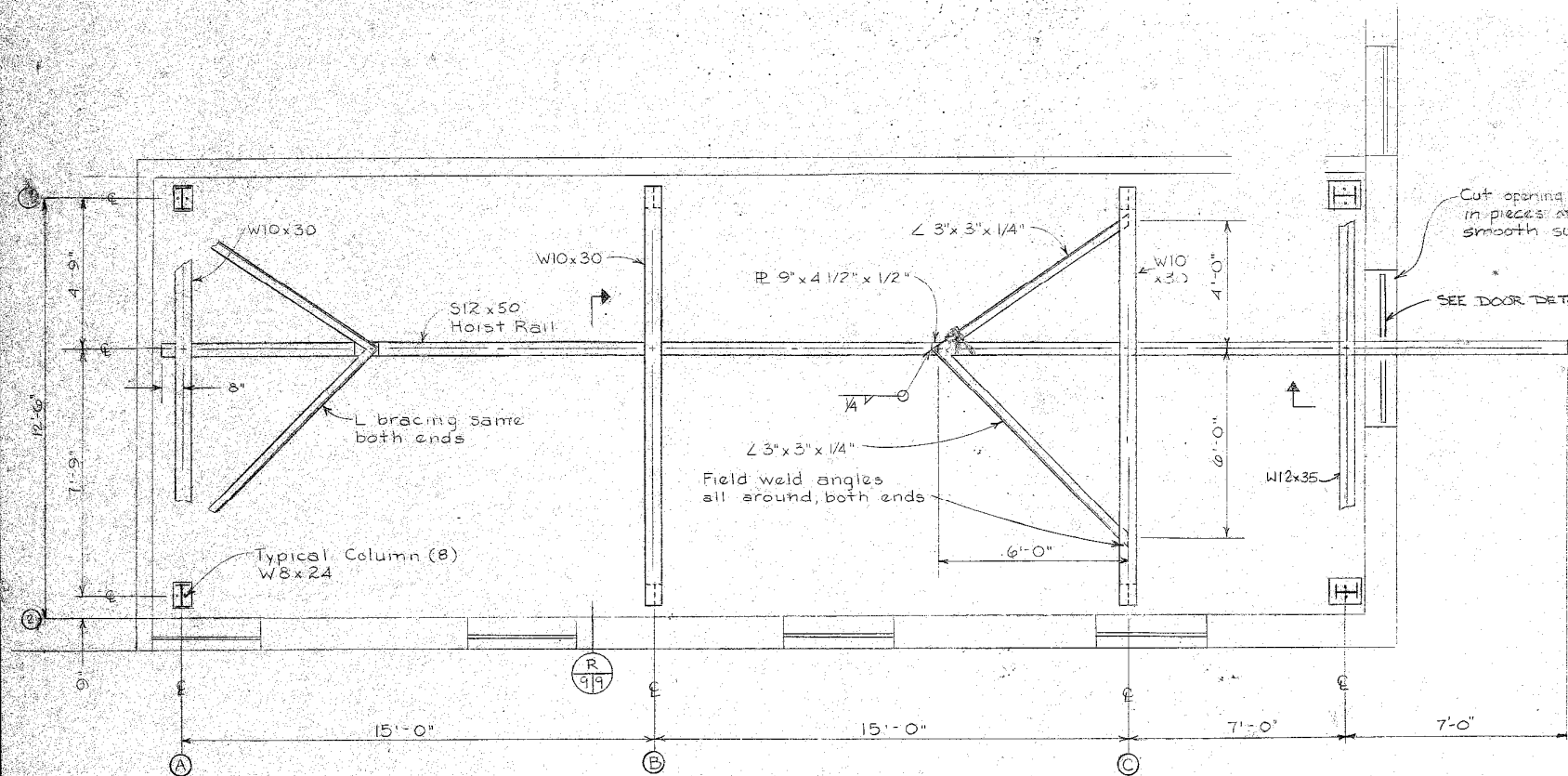
Revisions	DATE
G-10-94	
G-15-94	
G-23-94	
0-25-94	
Record Set	
2-1-95	

SCALE	as noted
DATE	8-8-91

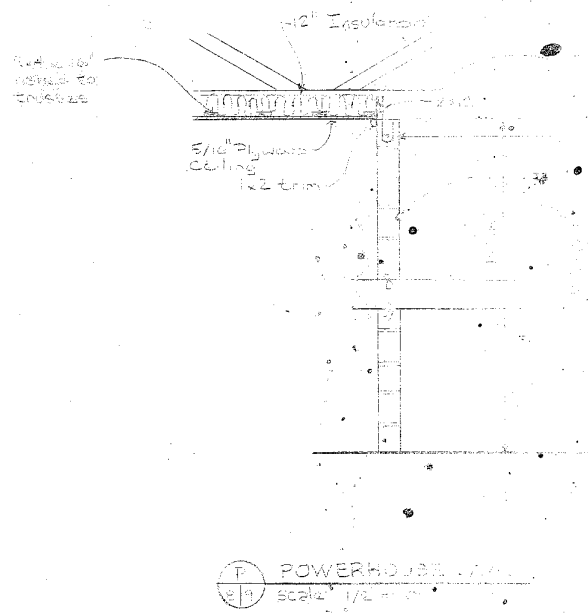
CHRISTIE ENGINEERING
Consulting Engineers
8 East 42nd Street, New York



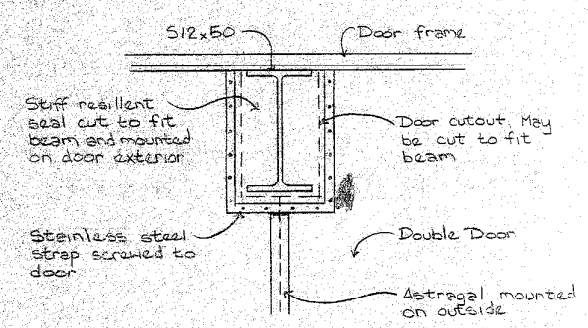
RECORD SET
Village of Fire Lake
Lake Fire
POWERHOUSE



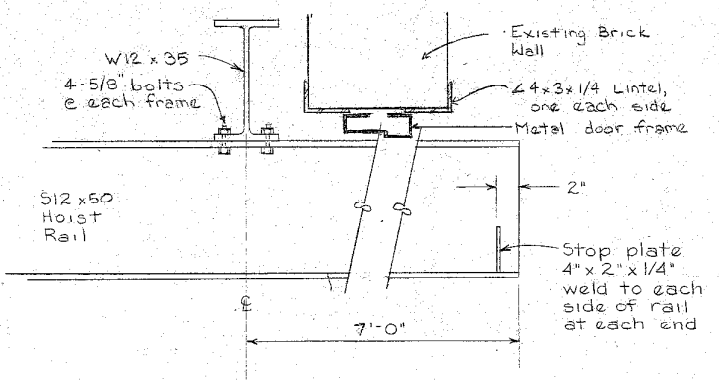
HOIST RAIL PLAN
scale: 3/8" = 1'-0"



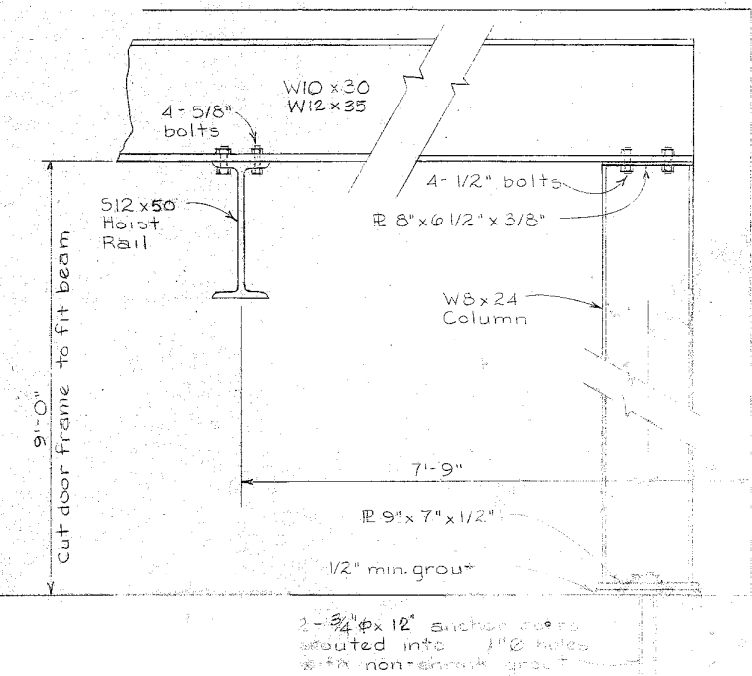
POWERHOUSE WALL
scale: 1/2" = 1'-0"



DOOR DETAIL
scale: 1 1/2" = 1'-0"



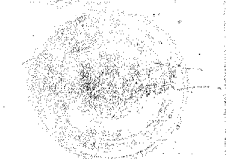
END OF HOIST RAIL
scale: 1 1/2" = 1'-0"



FRAME
scale: 1 1/2" = 1'-0"

Revisions	6-15-94	SCALE	as noted
	Record Set	DATE	6-10-94
	2-1-95		

CHRISTIE ENGINEERING
Consulting Engineers
400 Park Ave., New York



RECORDED

