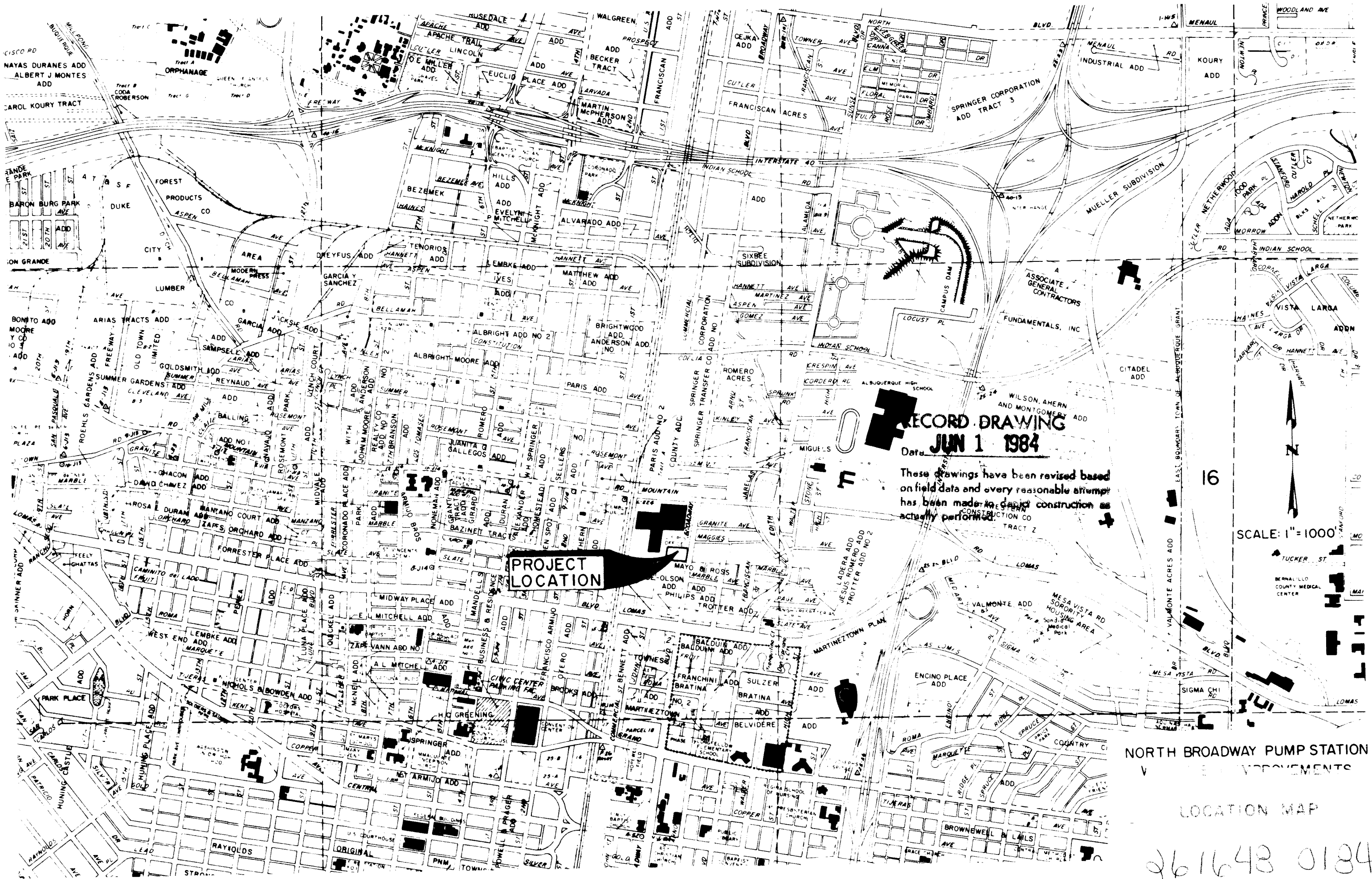




RECORD DRAWING

Date **JUN 1 1984**

These drawings have been revised based on field data and every reasonable attempt has been made to show construction as actually performed.

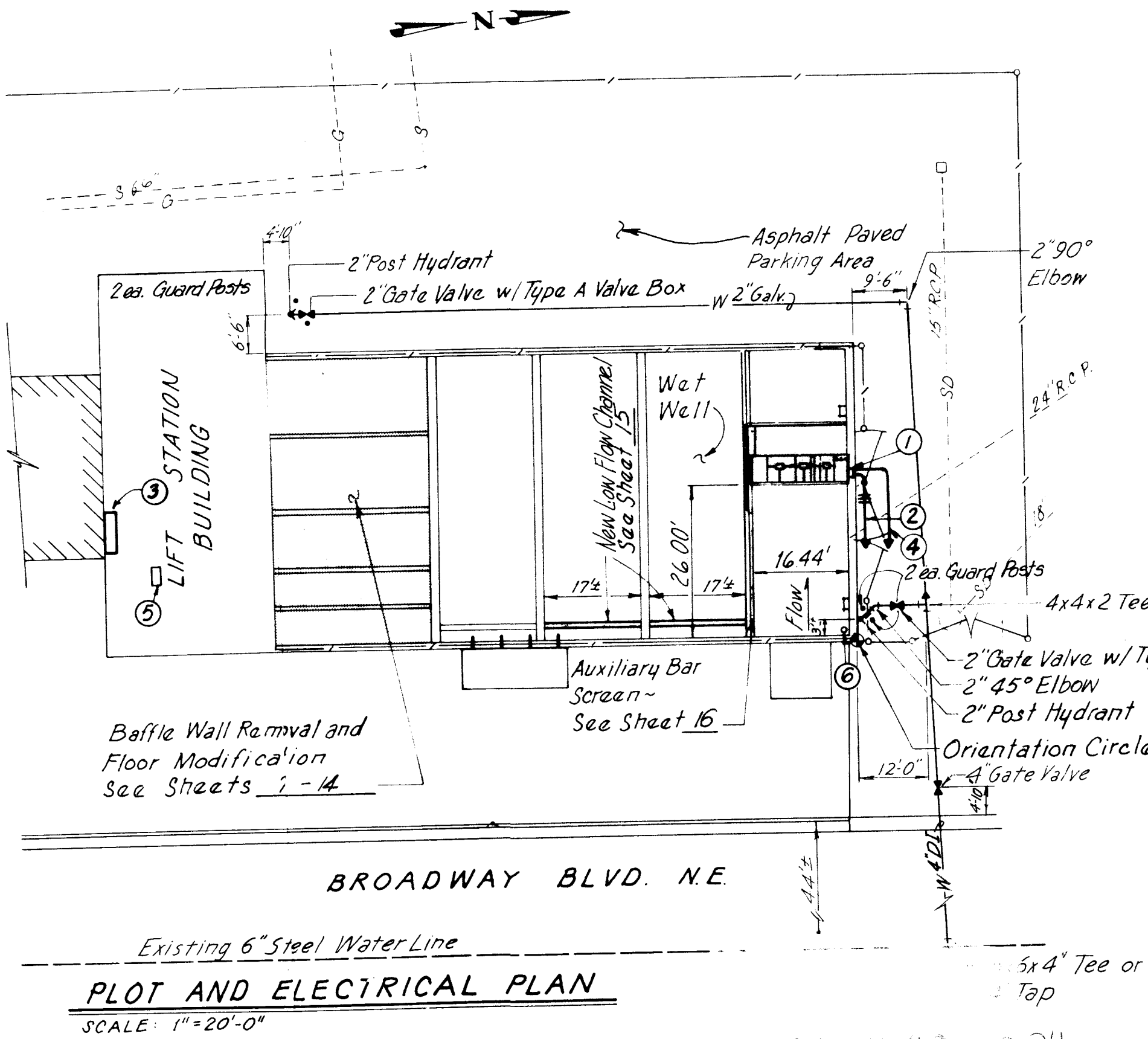
PROJECT LOCATION

SCALE: 1" = 1000'

NORTH BROADWAY PUMP STATION
V IMPROVEMENTS

LOCATION MAP

261643 0184



ELECTRICAL KEYED NOTES

- ① New trash bar screen cleaning rake. Connect to line side lugs of disconnect switch furnished with rake. Verify requirements with equipment manufacturer.
- ② 4 #10 - 1" C. Extend to existing motor control center. Verify routing in field prior to rough-in. Extend ground to building.
- ③ Existing motor control center. Connect rake circuit to existing spare switch. Install three (3) new 9 amp buss FRS fuses in switch. Power is 3 phase 480 volt. Provide label "MECHANICAL BAR SCREEN".
- ④ Control cable for run and alarm lights to be mounted in station. Control cable to be in conduit sized in accordance with NEC. Provide a minimum of two spare conductors.
- ⑤ Existing indicator lights. Connect to bar screen and label.
- ⑥ Install stilling well and float switches per manufacturers recommendations.
- ⑦ See Sheet 15 for Lighting Layout and Details.

NOTE: Rotary Limit Switch contacts for upper & lower limits have been reversed.

1. The contractor shall cut and remove the asphalt pavement along all waterline and conduit runs in paved areas. Replace all removed asphalt with standard residential pavement section. See drawing P-7-2.
2. Guard posts shall be 3" dia. galvanized steel, 6' long, 3' of which will be buried. The post will be filled with concrete. The exact location of the post will be determined in the field by the Engineer.

RECORD DRAWING

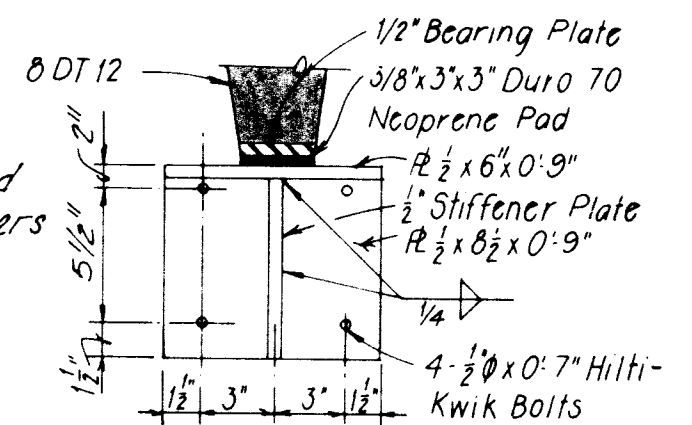
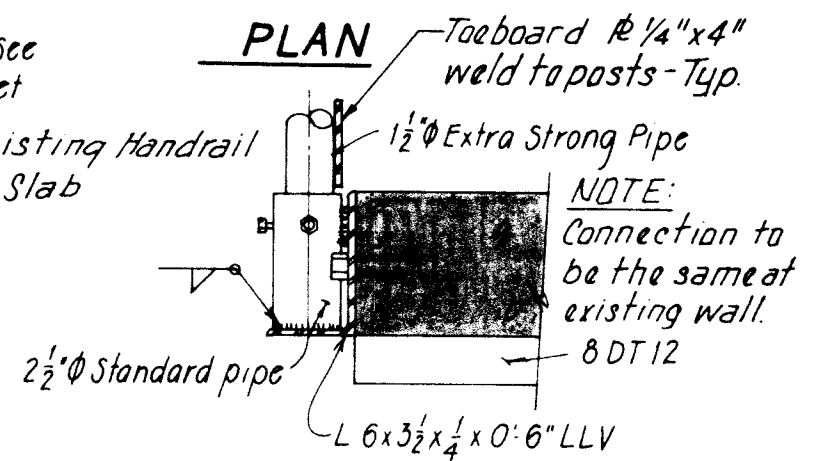
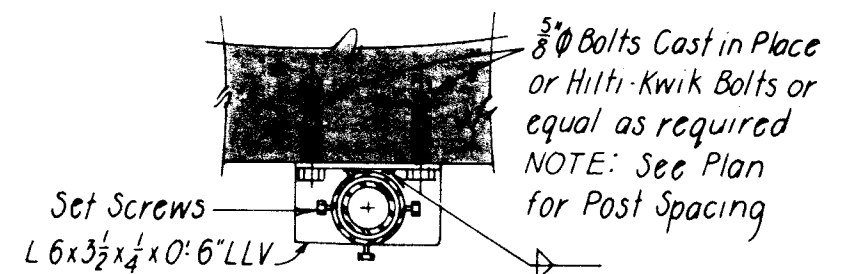
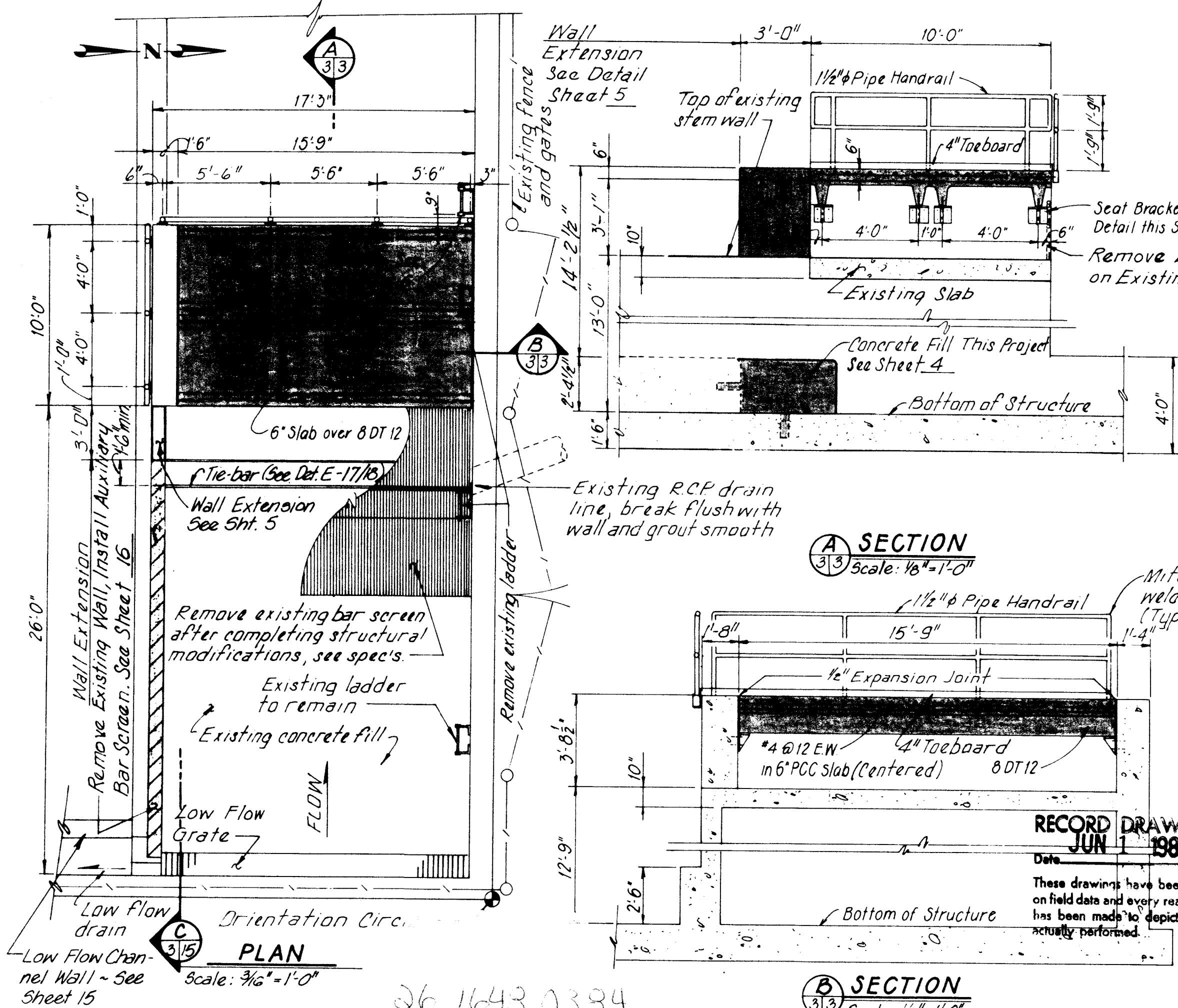
Date: **JUN 1 1984**

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NORTH BROADWAY PUMP STATION
 WET WELL IMPROVEMENTS

PLOT AND ELECTRICAL PLAN

SHEET 2



NOTE: Weld DT @ alternate ends, replace Neoprene pad with Steel Shims on welded ends

NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

PLATFORM DETAILS

SHEET 3

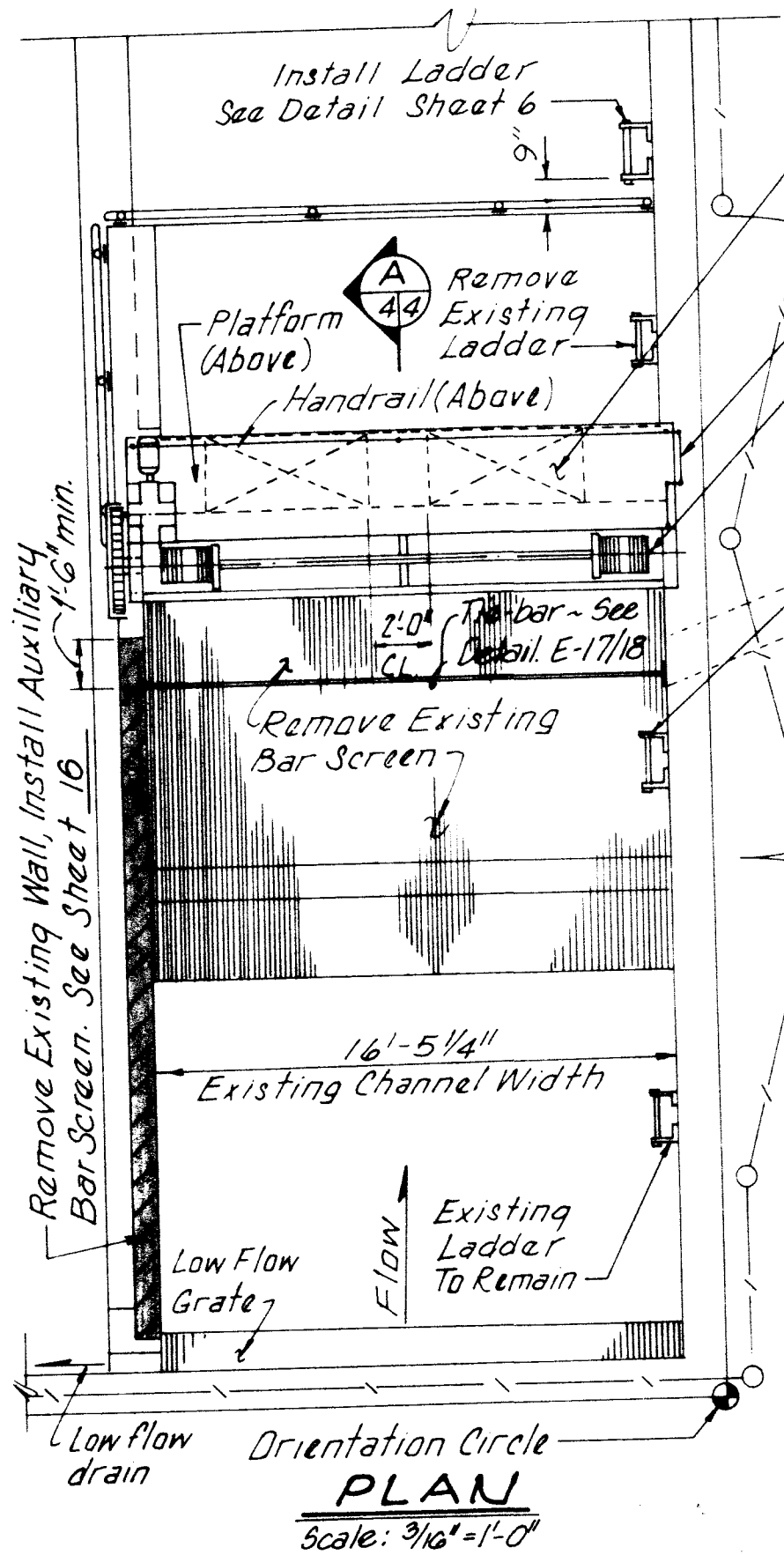
26 1643 0384

RECORD DRAWING
JUN 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

NOTES:

1. All connections of bar screen, guide channels, support structure and hand rail to existing concrete walls or slabs shall utilize Hilti Kwik Bolts or equal. Bolt size, length and pull out strength shall be as specified by the bar screen manufacturer. All bolts in existing walls shall be located at least 3" from edge of concrete. Connections in concrete to be poured in this contract shall be anchor bolts as specified by the manufacturer.
2. All cast in place concrete shall be 4000 psi.
3. Rake width as determined by existing channel and standard manufacturers dimensions. Minimum rake and screen width is 15'9".



Screening Trough (Galv.) with 2'-5'-0" long x full width openings provided by Bar Screen Manufacturer

Ladder
Link Belt Straightline Vertical Four Rope Extra Heavy Duty Bar Screen or Engineer Approved Equal

Remove Existing Ladder

Wall Extension

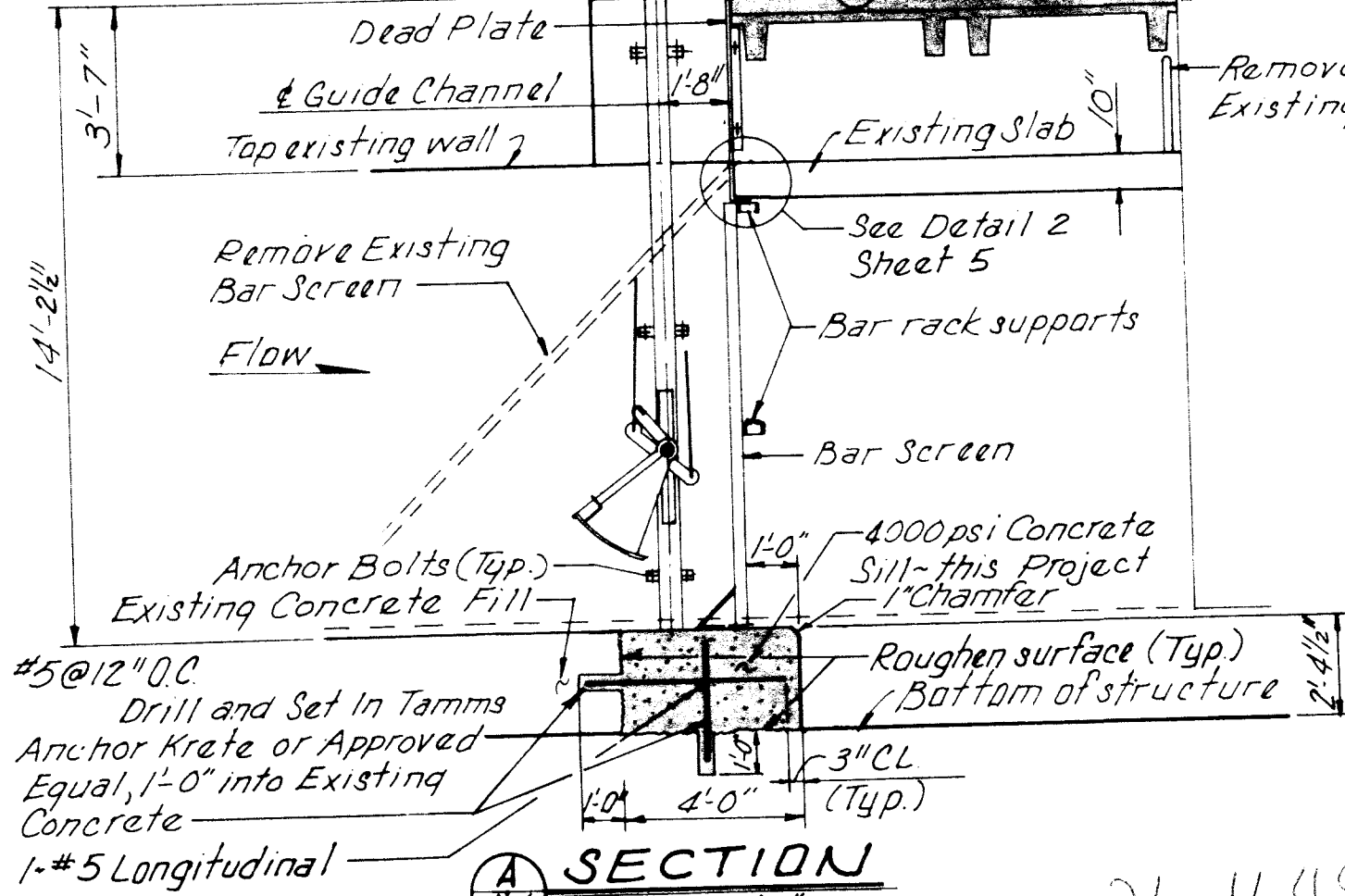
Handrail (Above)

Provide 2-Swansen type (2 Cu. Yd.) trash bins modified to 3'-2" overall height

Connections as Required by Bar Screen Manufacturer and Existing Wall Dimensions

Handrail, See Sheet 3

Remove 2'-8" Existing Handrail



RECORD DRAWING
JUN 1 1984

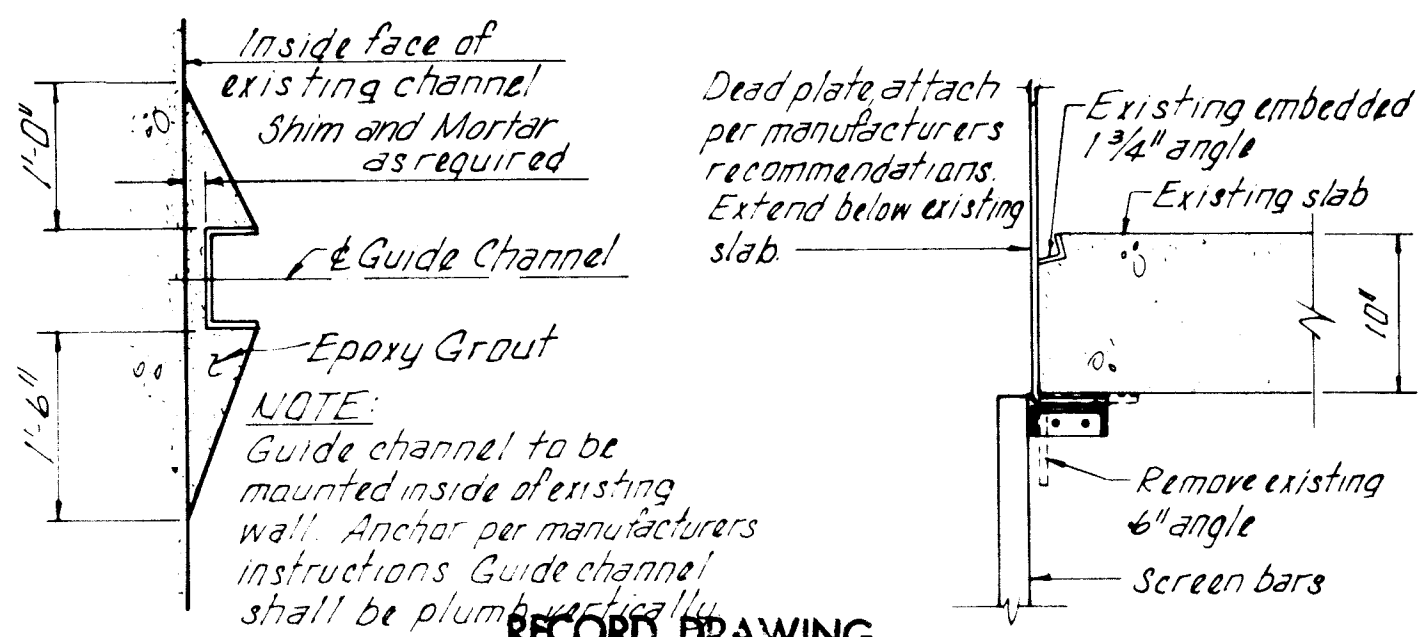
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NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

MECHANICAL BAR SCREEN

SHEET 4

26 1648 0484



RECORD DRAWING

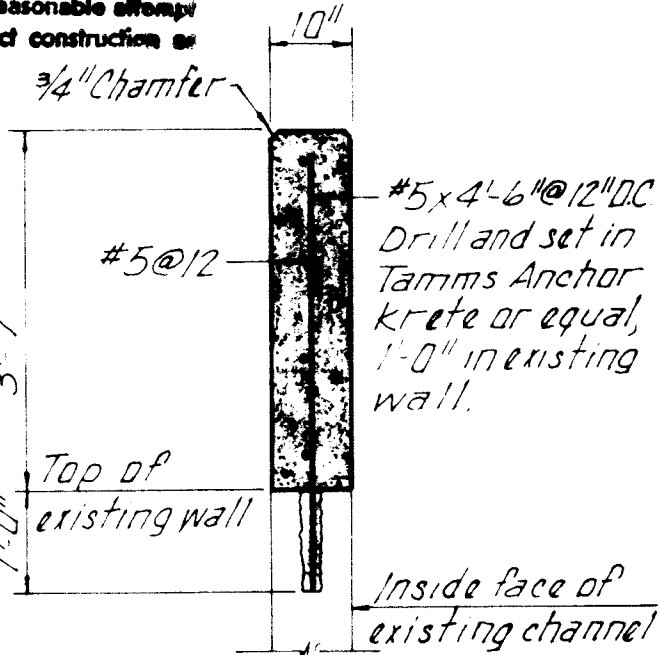
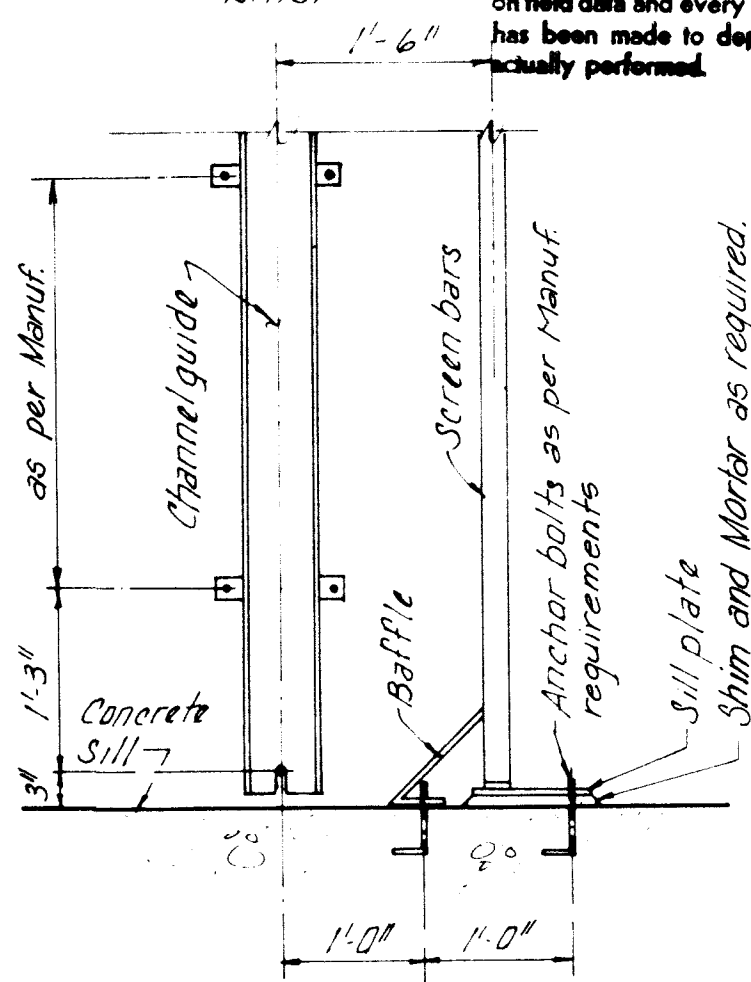
DETAIL 1

Date JUN 1 1984

DETAIL 2

N.T.S.

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



WALL EXTENSION SECTION

Scale: 1/2" = 1'-0"

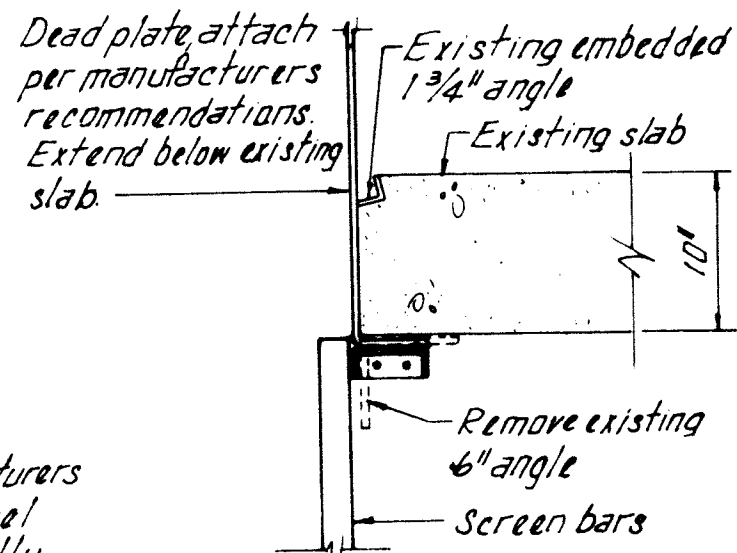
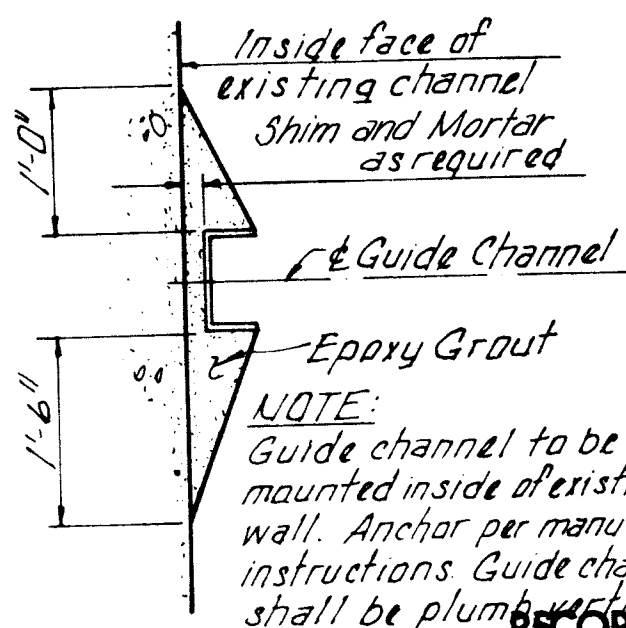
NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS
MECHANICAL BAR SCREEN
CONNECTION DETAILS

DETAIL 3

N.T.S.

261648 0584

SHEET 5



RECORD DRAWING

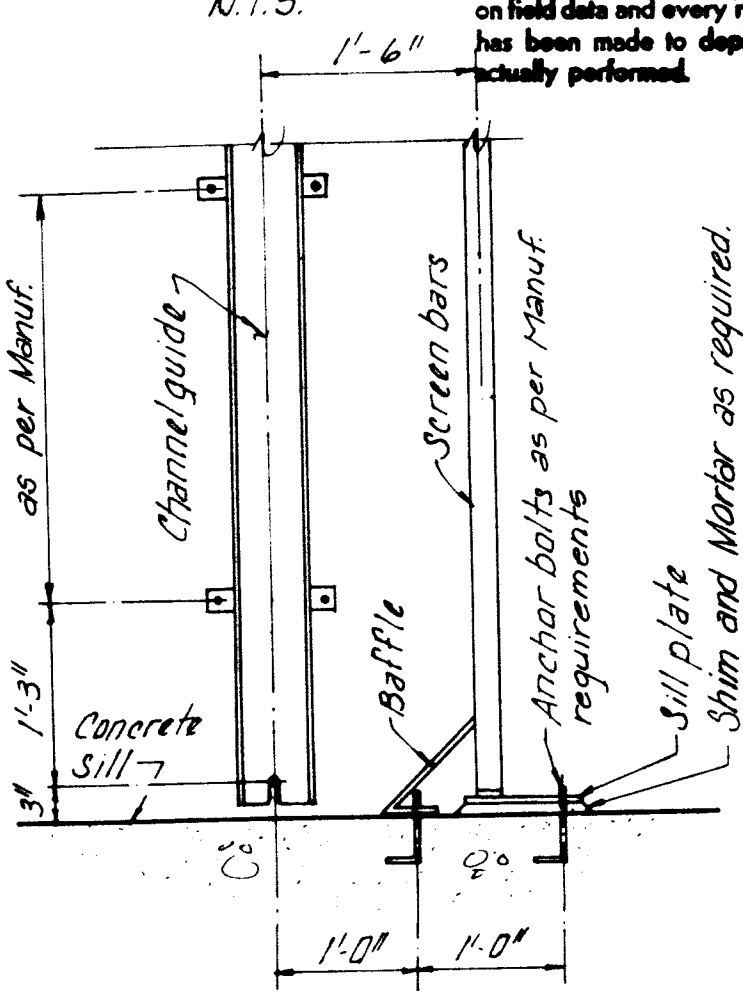
Date JUN 1 1984

DETAIL 1

N.T.S.

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

DETAIL 2



DETAIL 3

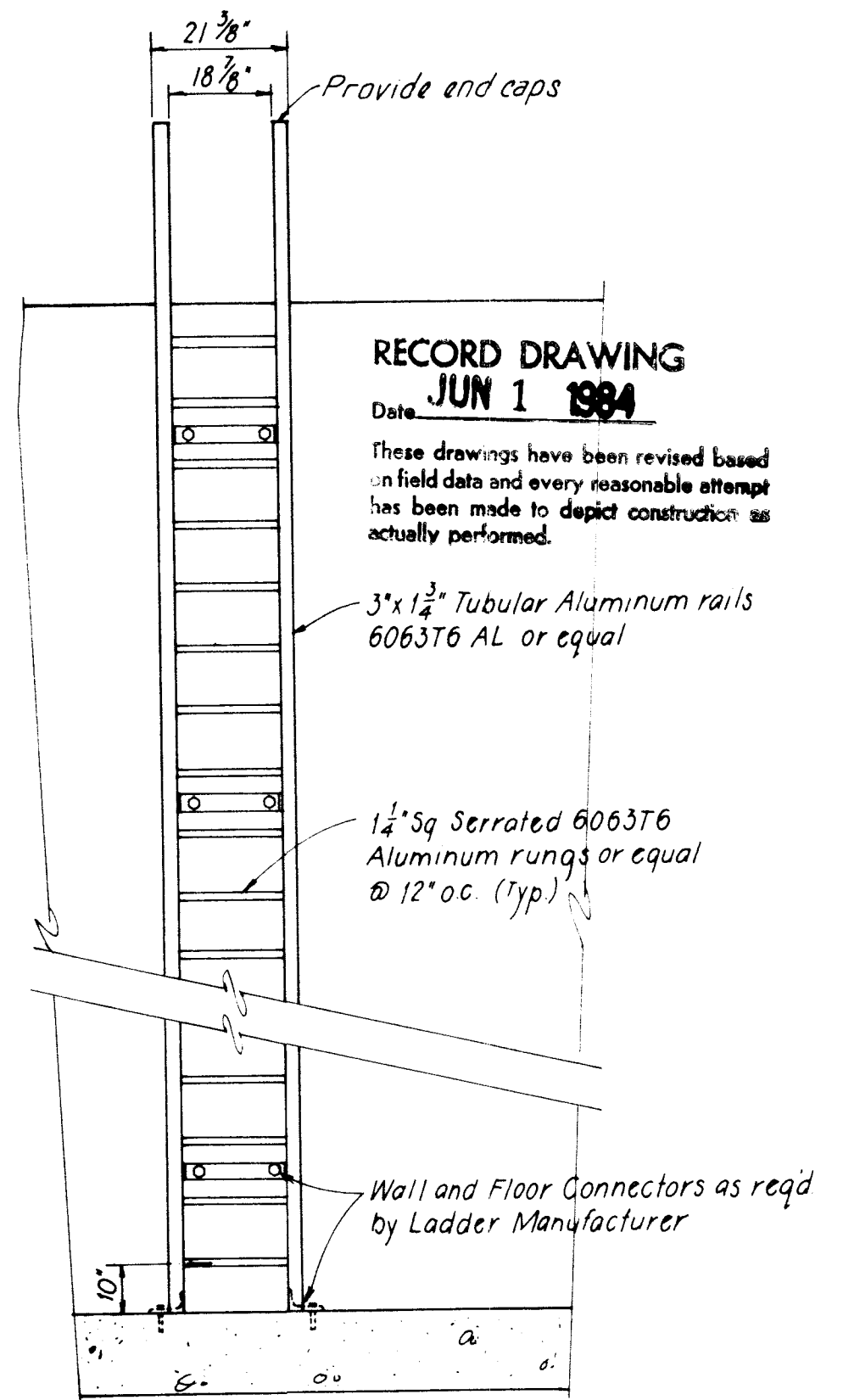
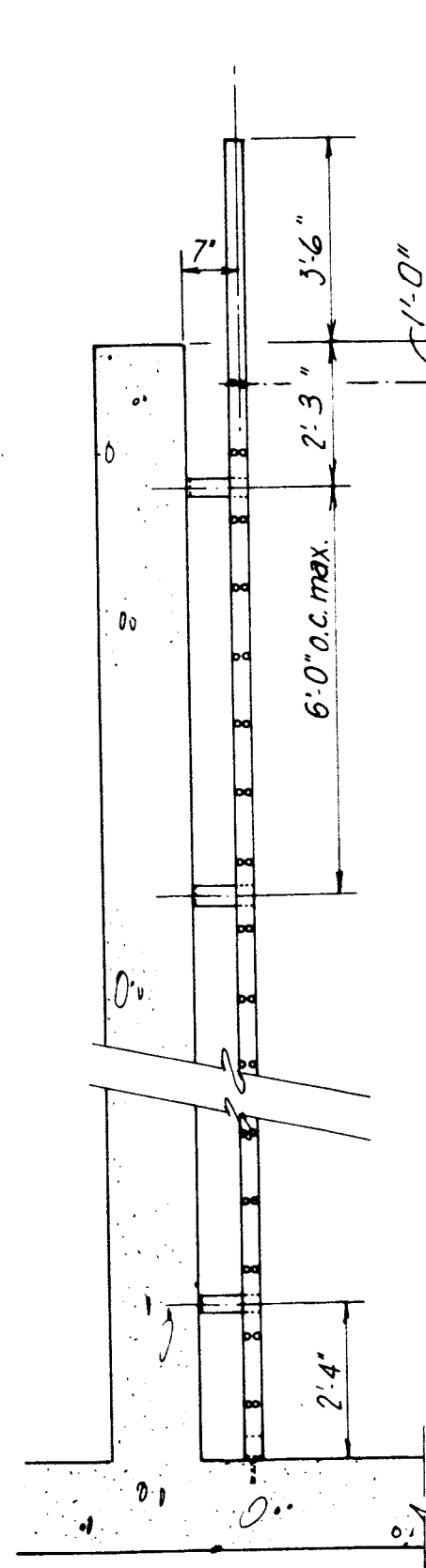
N.T.S.

WALL EXTENSION SECTION

Scale: 1/2" = 1'-0"

NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS
MECHANICAL BAR SCREEN
CONNECTION DETAILS

SHEET 5



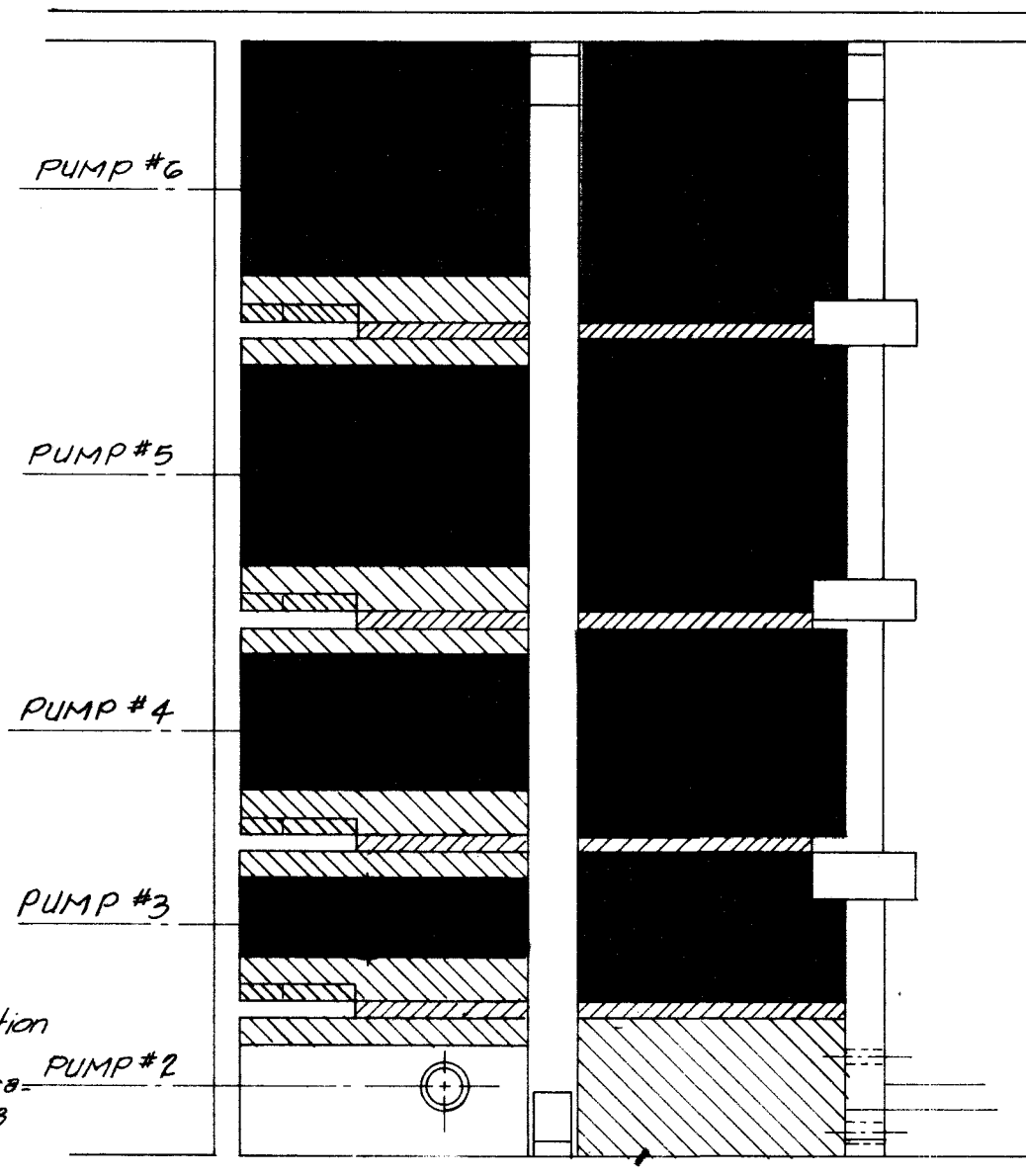
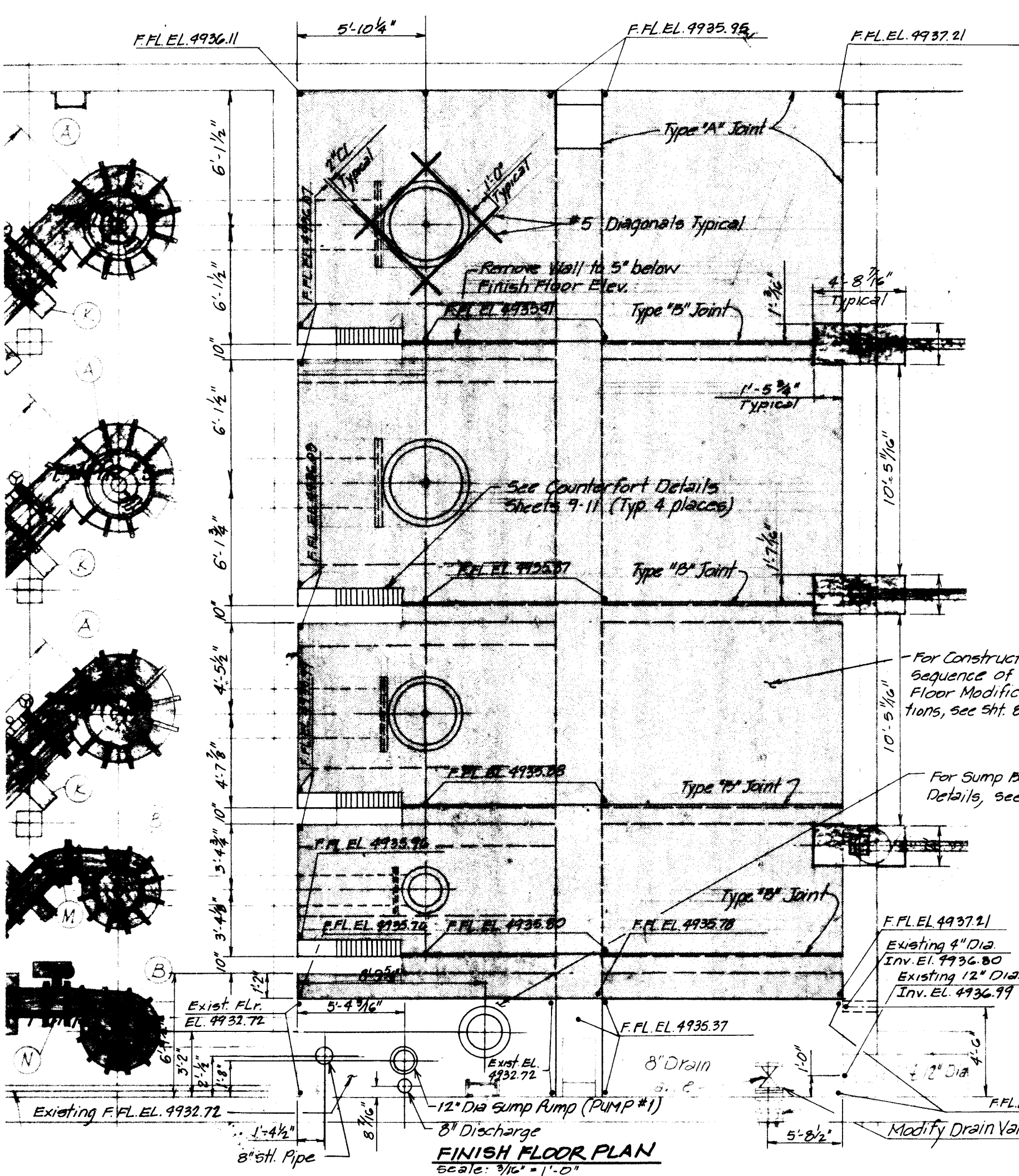
NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

LADDER DETAILS

SHEET 6

NOTES:
Ladder shall be constructed entirely of aluminum or aluminum and stainless steel and shall comply with all OSHA requirements. Aluminum shall have anodized finish as manufactured by O'Keefe's or equal.
Not to scale.

26 1648 0684



INFILL PLAN N.T.S.

RECORD DRAWING
JUN 1 1984

Date
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- LEGEND**
- 4000 psi Infill Area Concrete
 - Existing Wall
 - Infill Area, CTB
 - 4000 psi Floor Concrete

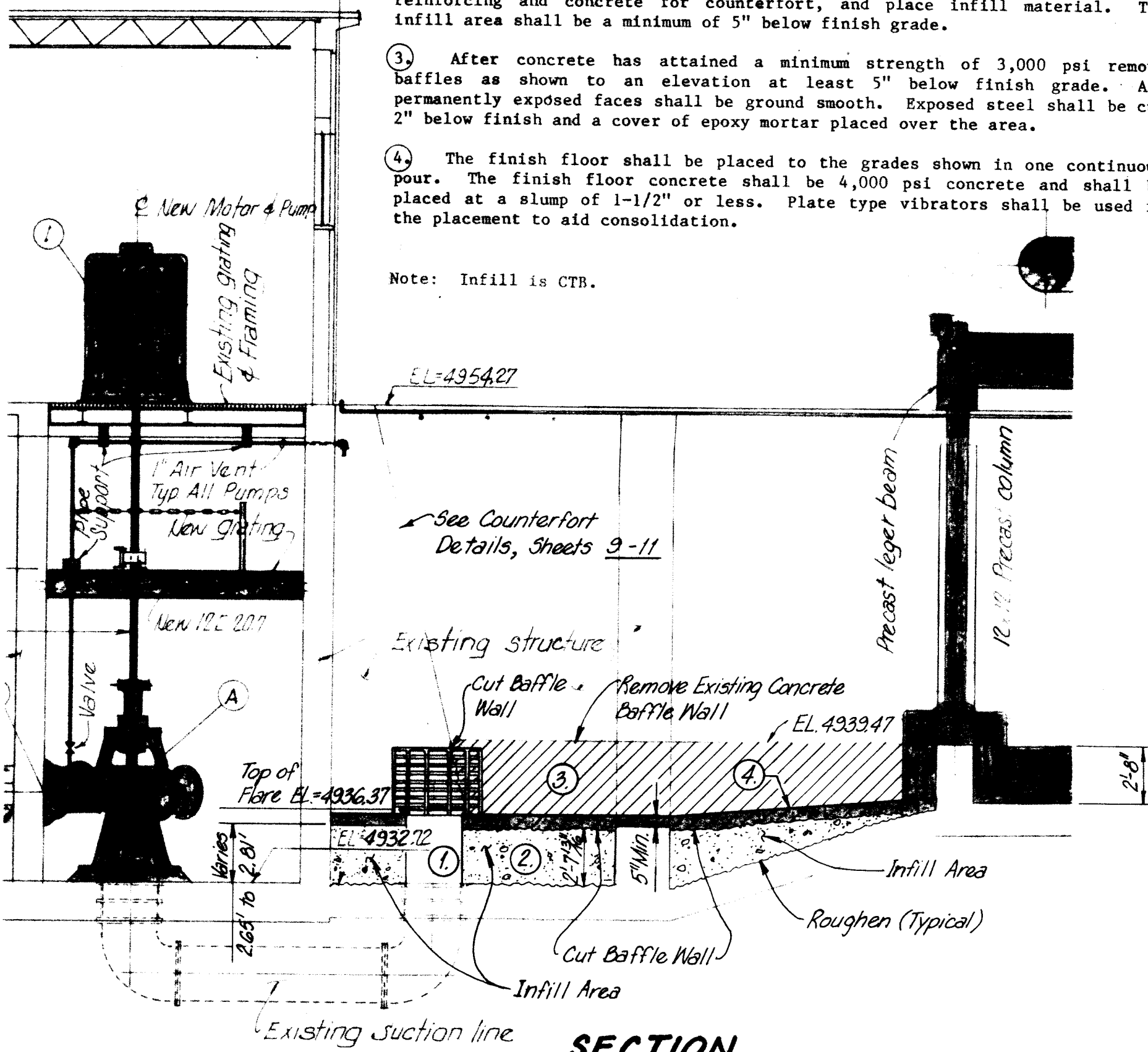
NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS
FLOOR MODIFICATION LAYOUT

SHEET 7

CONSTRUCTION SEQUENCE

1. Place suction pipe extension. See Detail, Sheet 14.
2. Clean floor and counterfort of debris, scum, etc., and roughen finish with scabbler or equivalent. Drill holes, place dowels, threaded bars, reinforcing and concrete for counterfort, and place infill material. The infill area shall be a minimum of 5" below finish grade.
3. After concrete has attained a minimum strength of 3,000 psi remove baffles as shown to an elevation at least 5" below finish grade. All permanently exposed faces shall be ground smooth. Exposed steel shall be cut 2" below finish and a cover of epoxy mortar placed over the area.
4. The finish floor shall be placed to the grades shown in one continuous pour. The finish floor concrete shall be 4,000 psi concrete and shall be placed at a slump of 1-1/2" or less. Plate type vibrators shall be used in the placement to aid consolidation.

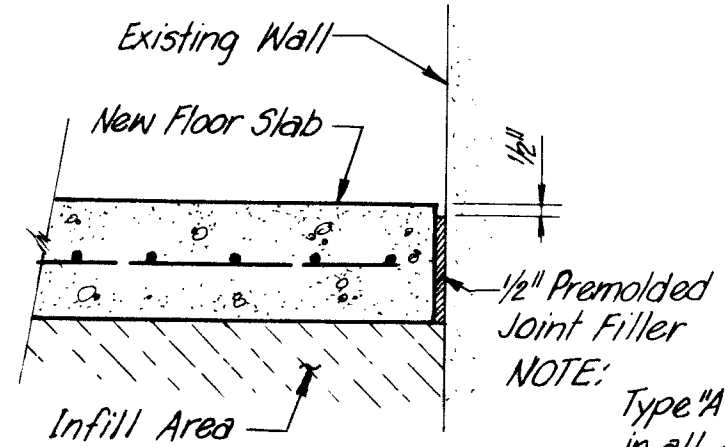
Note: Infill is CTB.



SECTION

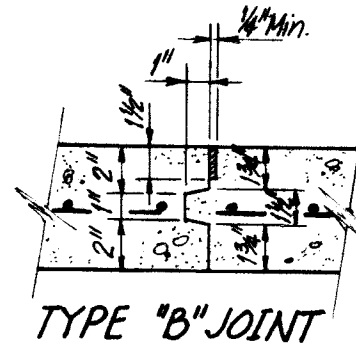
Not to Scale

26 1648 0884

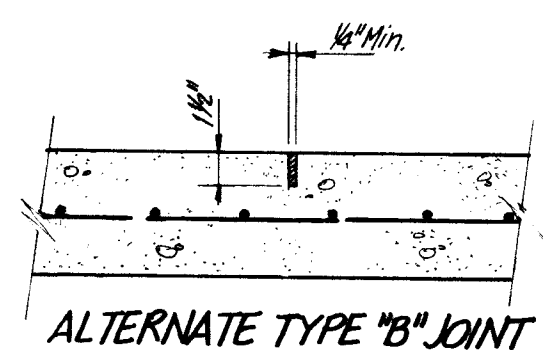


TYPICAL TYPE "A" JOINT

Scale: 1 1/2" = 1'-0"



TYPE "B" JOINT



ALTERNATE TYPE "B" JOINT

TYPICAL TYPE "B" JOINT

Scale: 1 1/2" = 1'-0"

RECORD DRAWING

JUN 1 1984

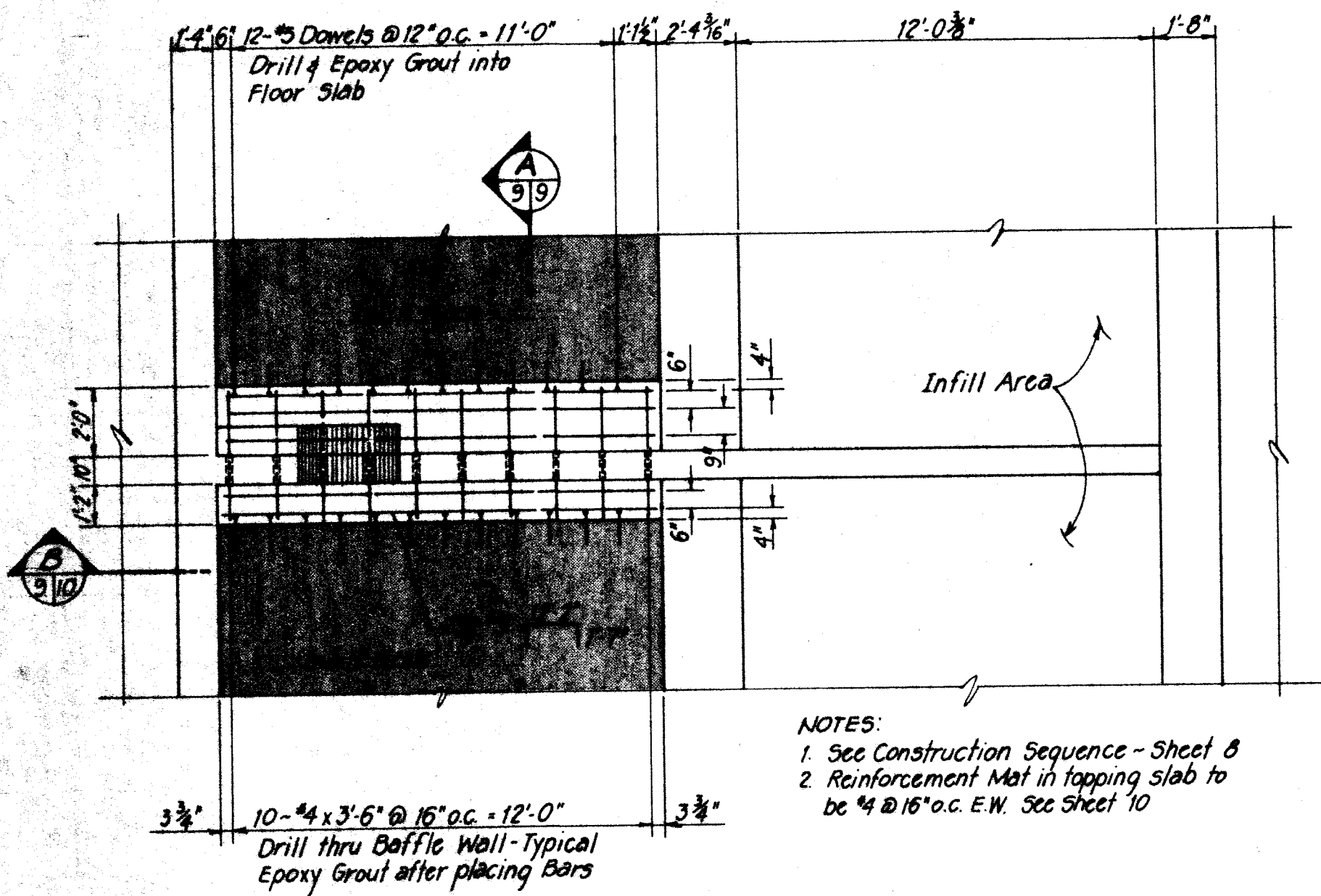
Date

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NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

FLOOR MODIFICATION CONSTRUCTION SEQUENCE

SHEET 8

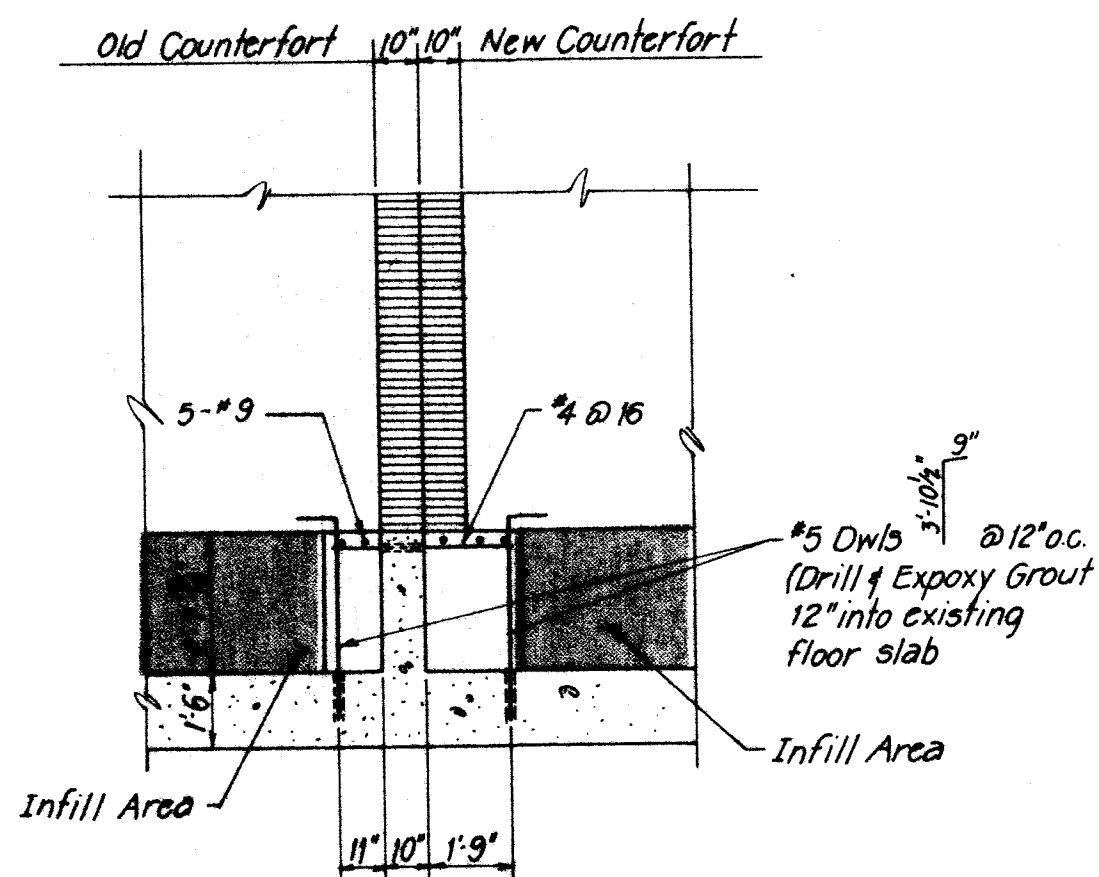


PLAN

Scale: $\frac{1}{4}" = 1'-0"$

- NOTES:
1. See Construction Sequence - Sheet 8
 2. Reinforcement Mat in topping slab to be #4 @ 16" o.c. E.W. See Sheet 10

26 1648 0984



SECTION

Scale: $\frac{1}{4}" = 1'-0"$

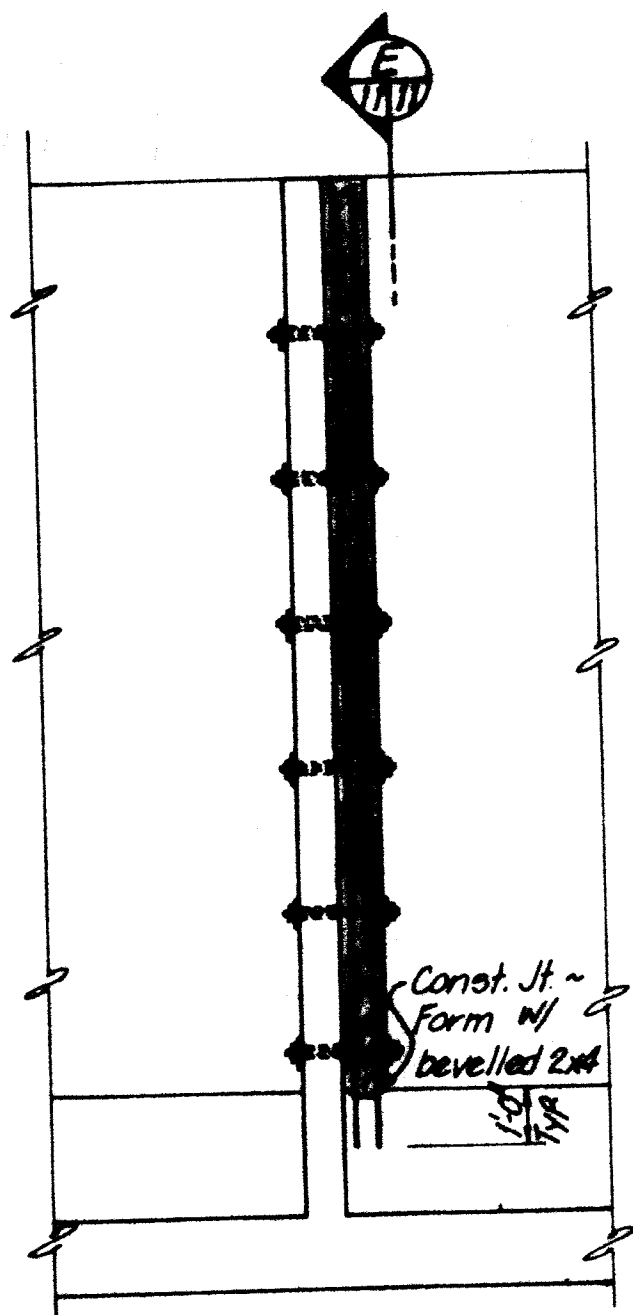
RECORD DRAWING
JUN 1 1984

Date

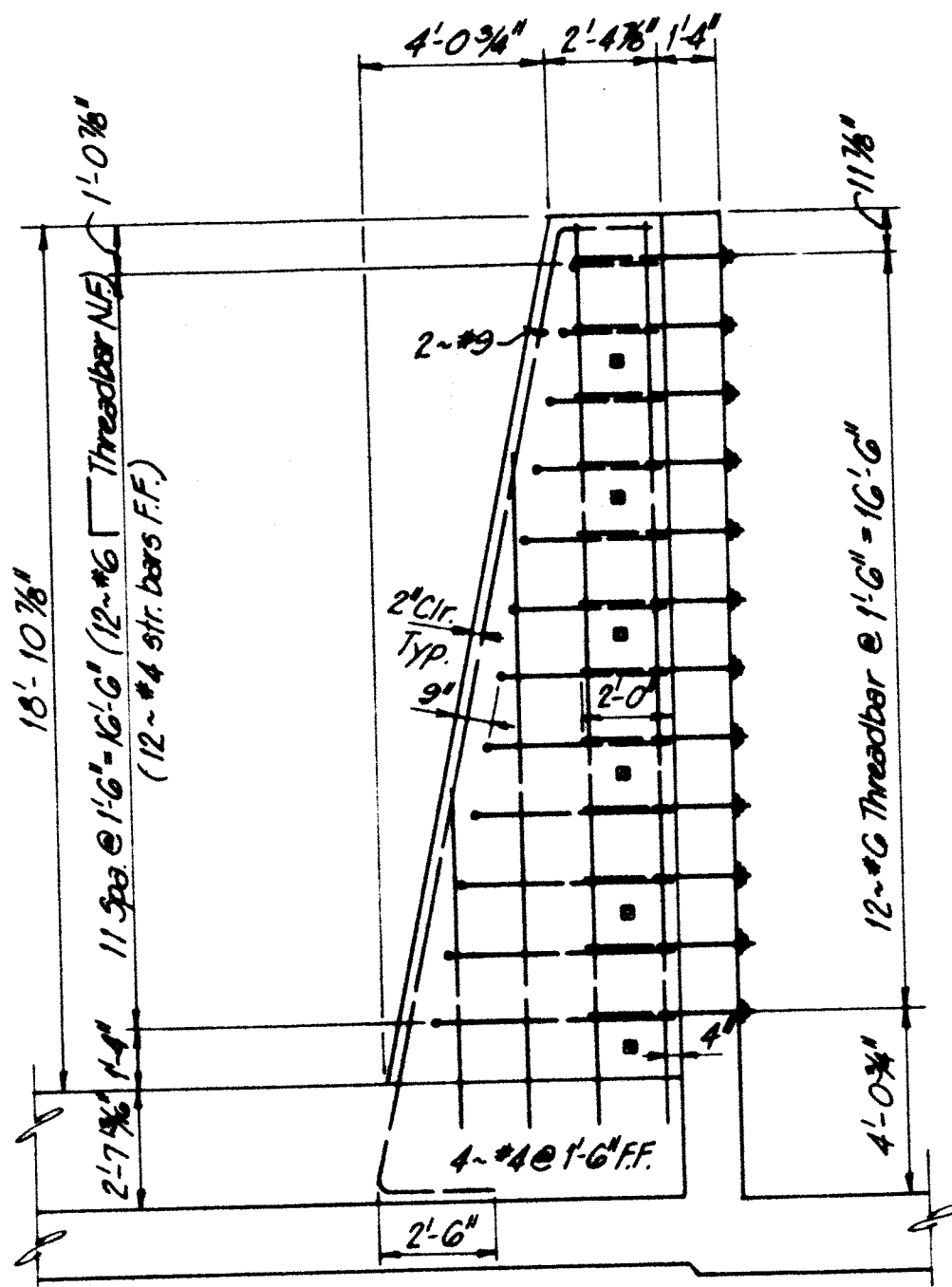
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NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS
FLOOR MODIFICATION AND
COUNTERFORT REINFORCING
PLAN AND SECTION

SHEET 9



D SECTION
Scale: 1/4" = 1'-0"



E SECTION
Scale: 1/4" = 1'-0"

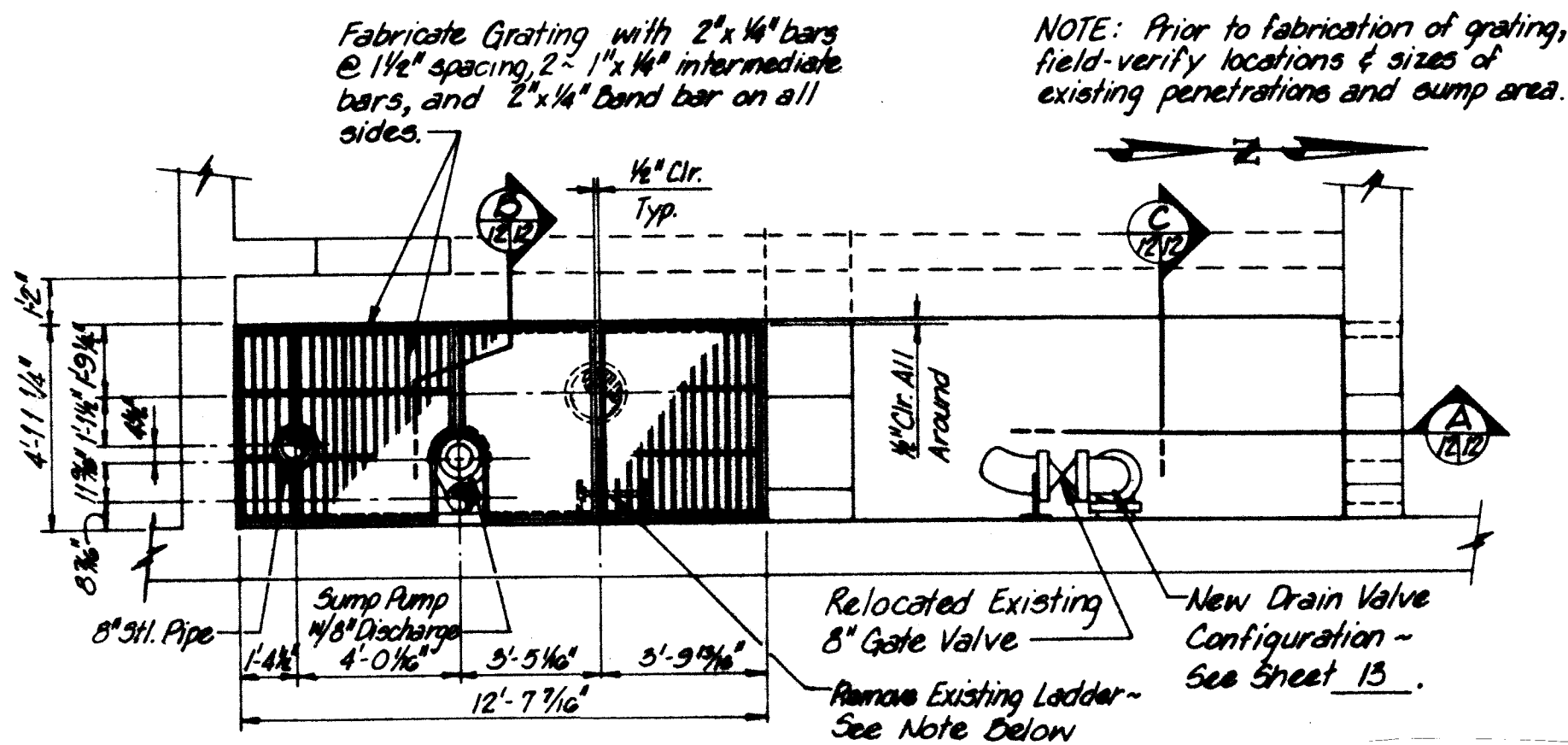
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RECORD DRAWING
JUN 1 1984

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

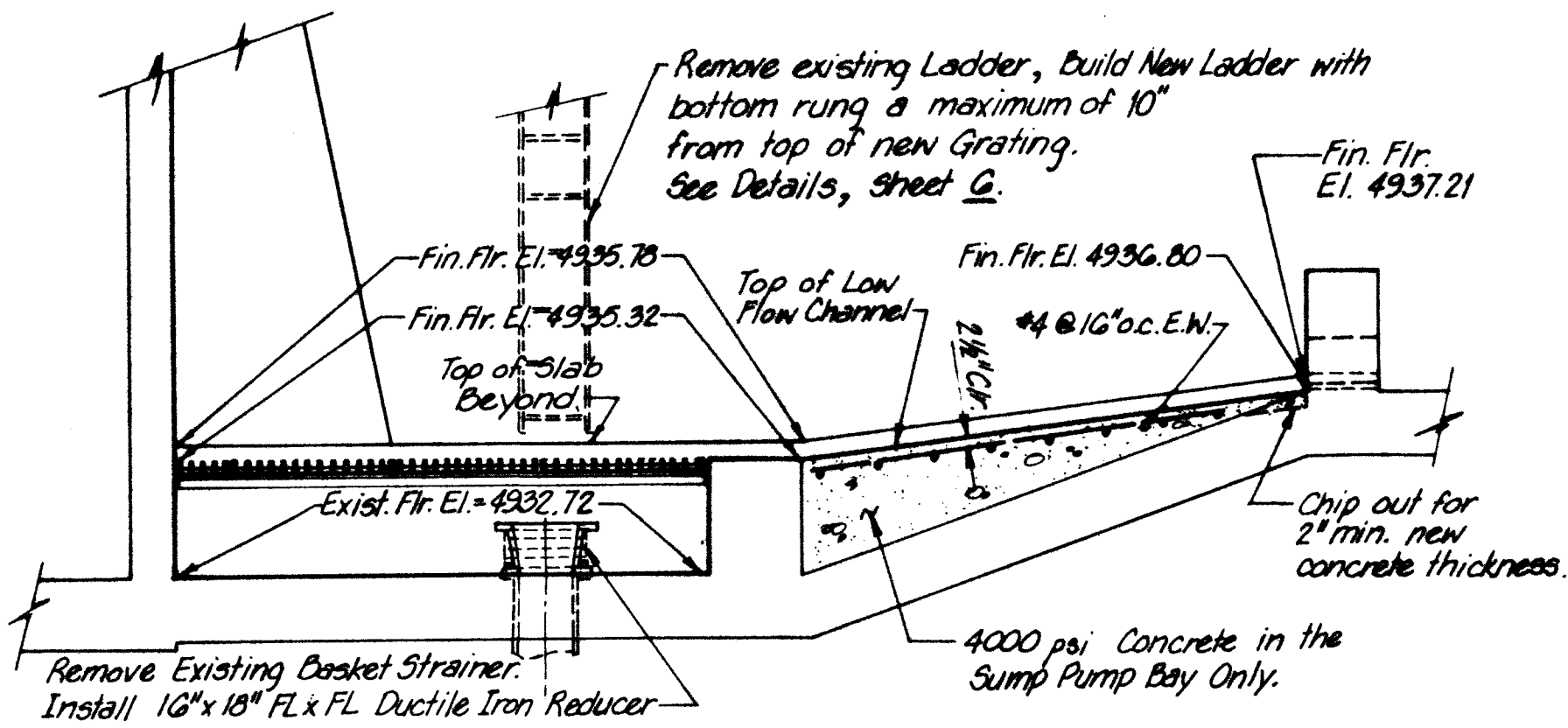
NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS
FLOOR AND COUNTERFORT
MODIFICATION SECTIONS

SHEET 11

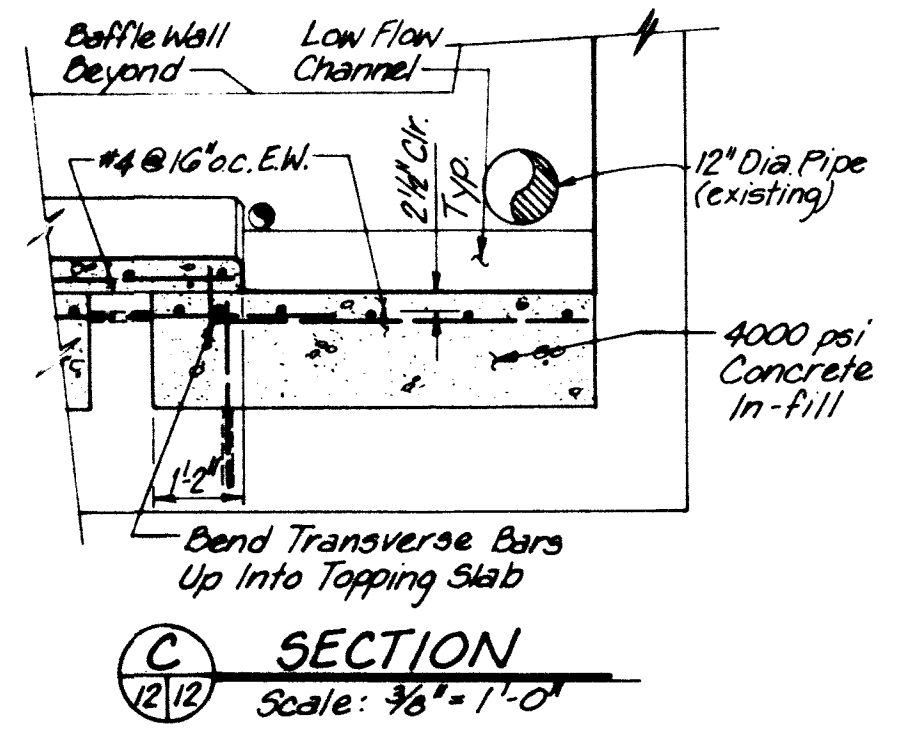
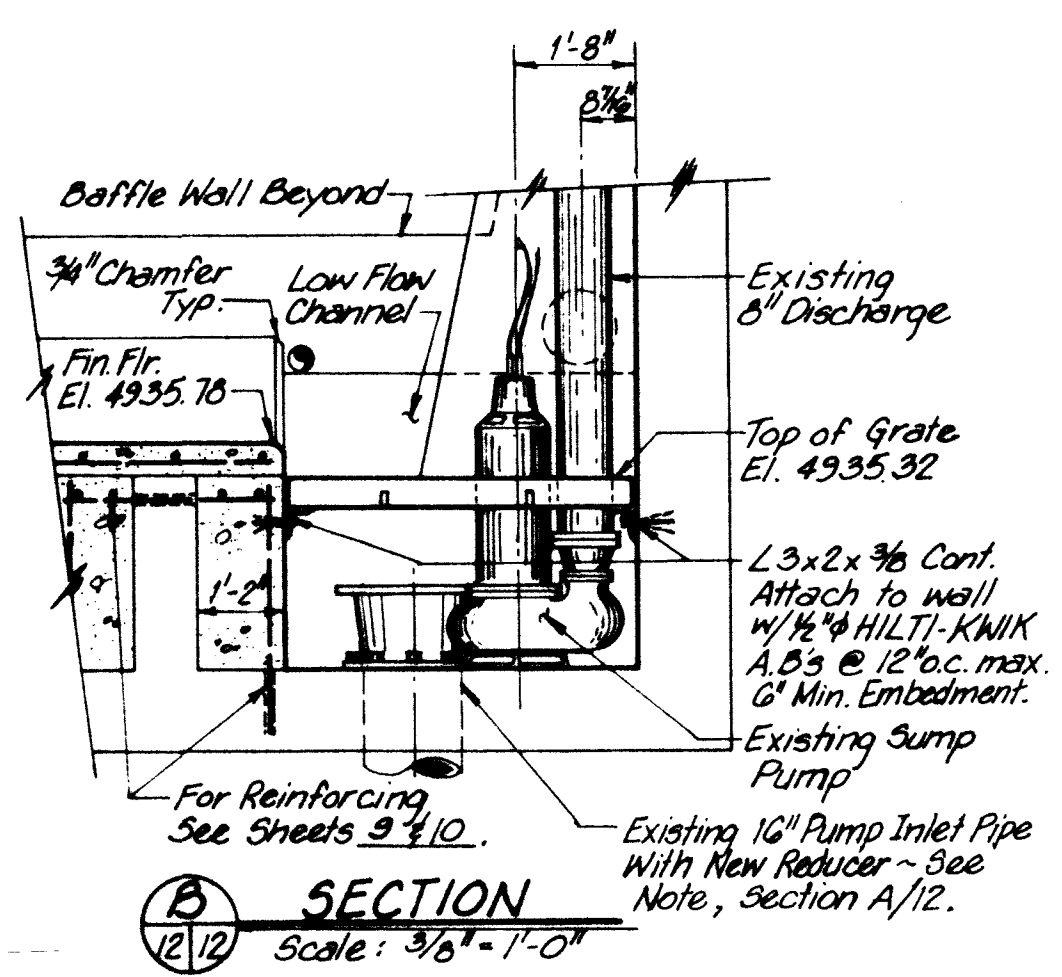


PLAN
Scale: 1/4" = 1'-0"

26 1648 1284



A SECTION
Scale: 1/4" = 1'-0"



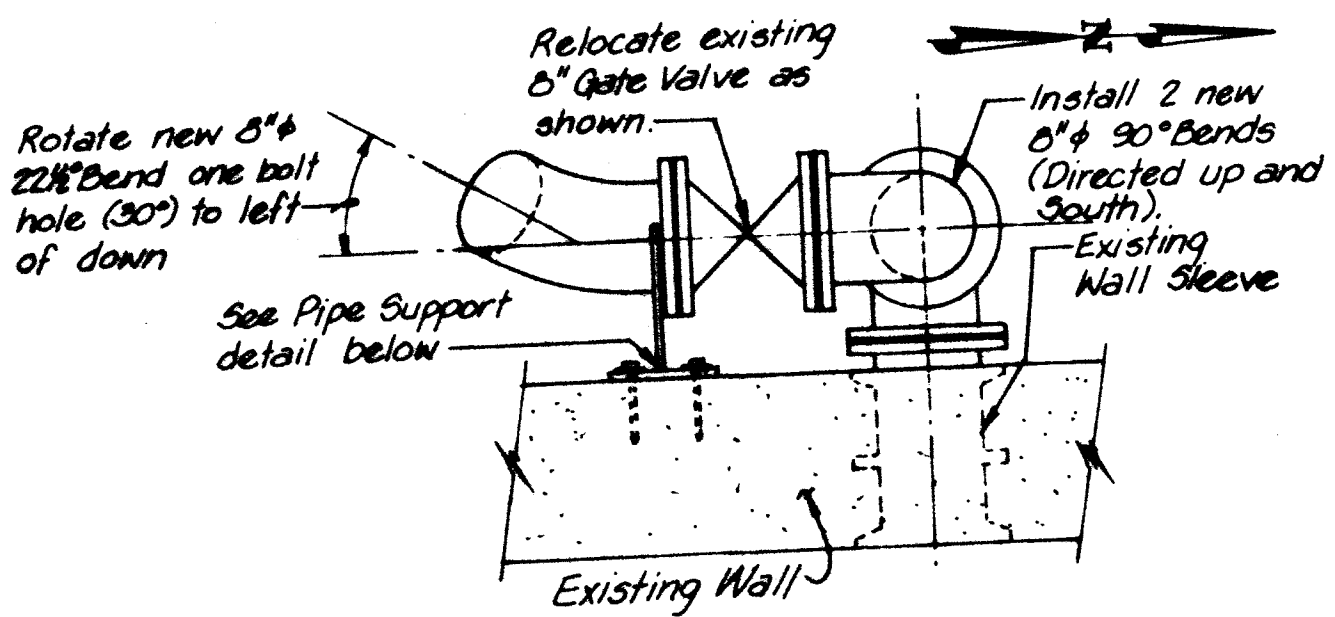
RECORD DRAWING
JUN 1 1984

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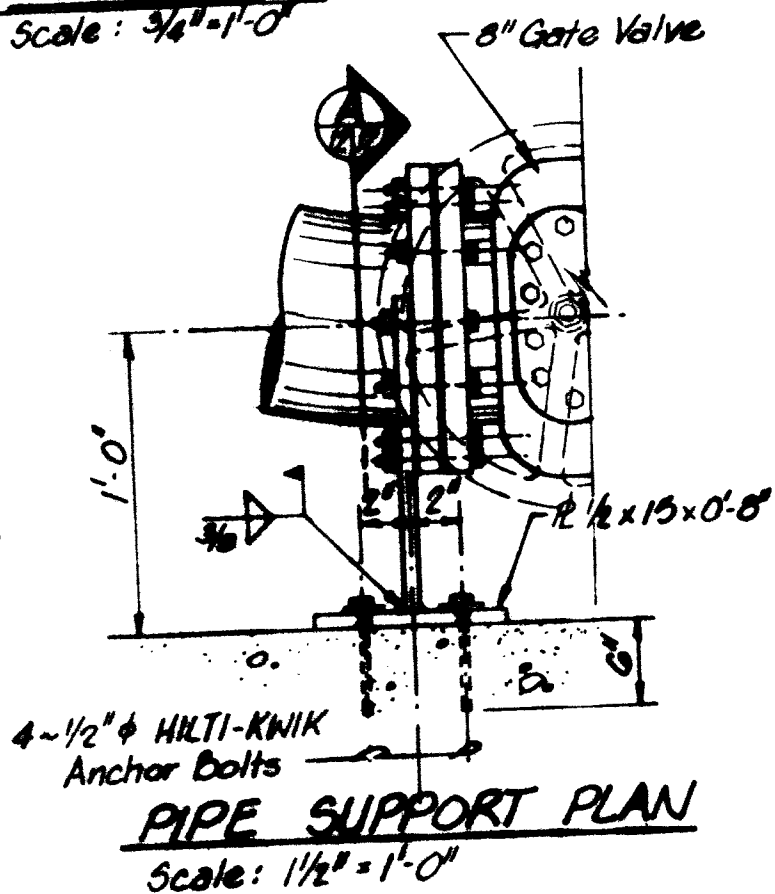
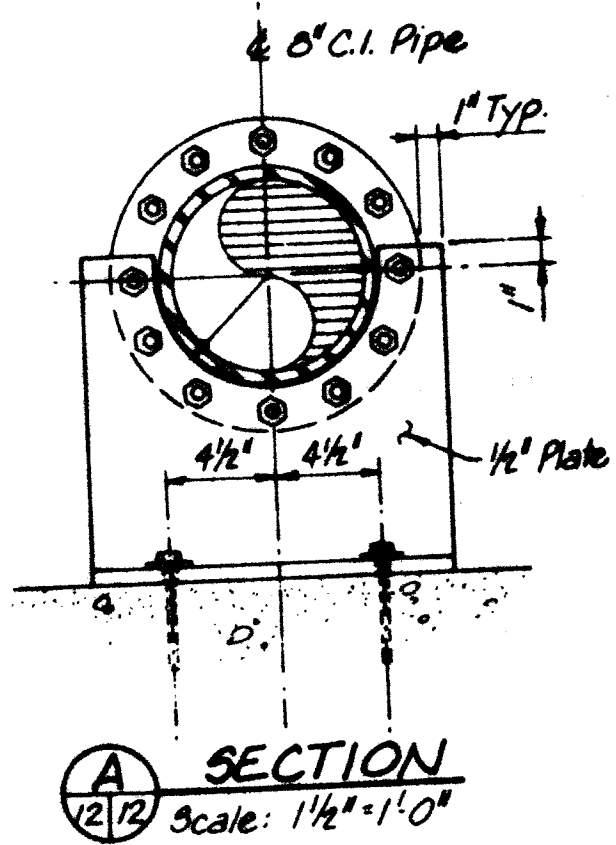
NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

SUMP BAY DETAILS

SHEET 12



PLAN
Scale: $\frac{3}{4}" = 1'-0"$



PIPE SUPPORT PLAN
Scale: $1\frac{1}{2}" = 1'-0"$

RECORD DRAWING

Date JUN 1 1984

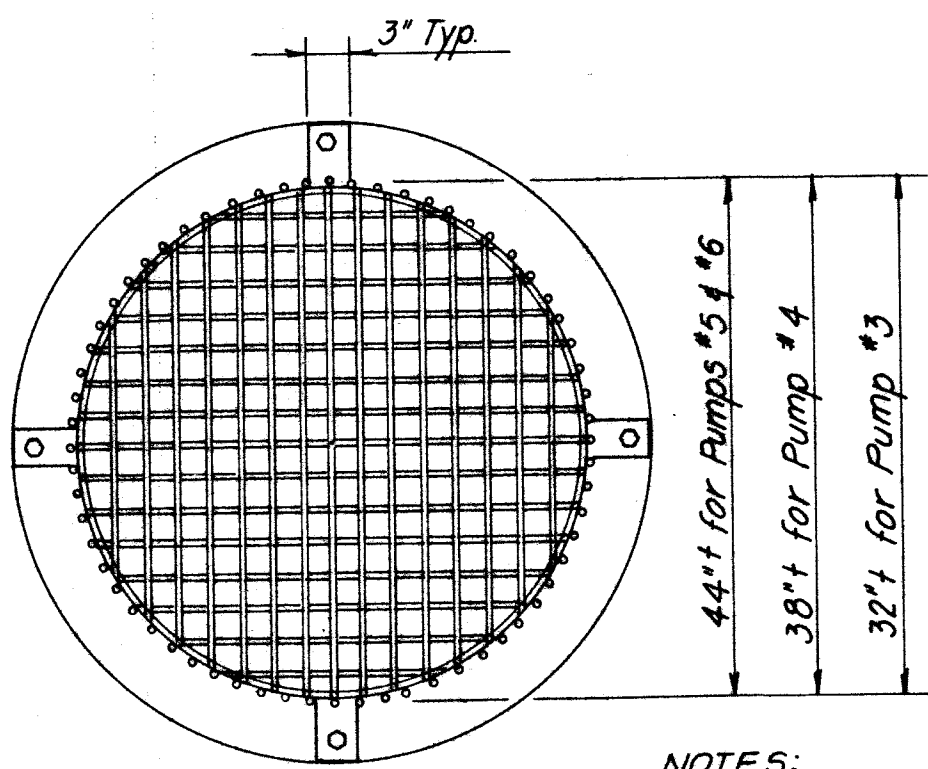
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**NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS**

**DRAIN VALVE
CONFIGURATION**

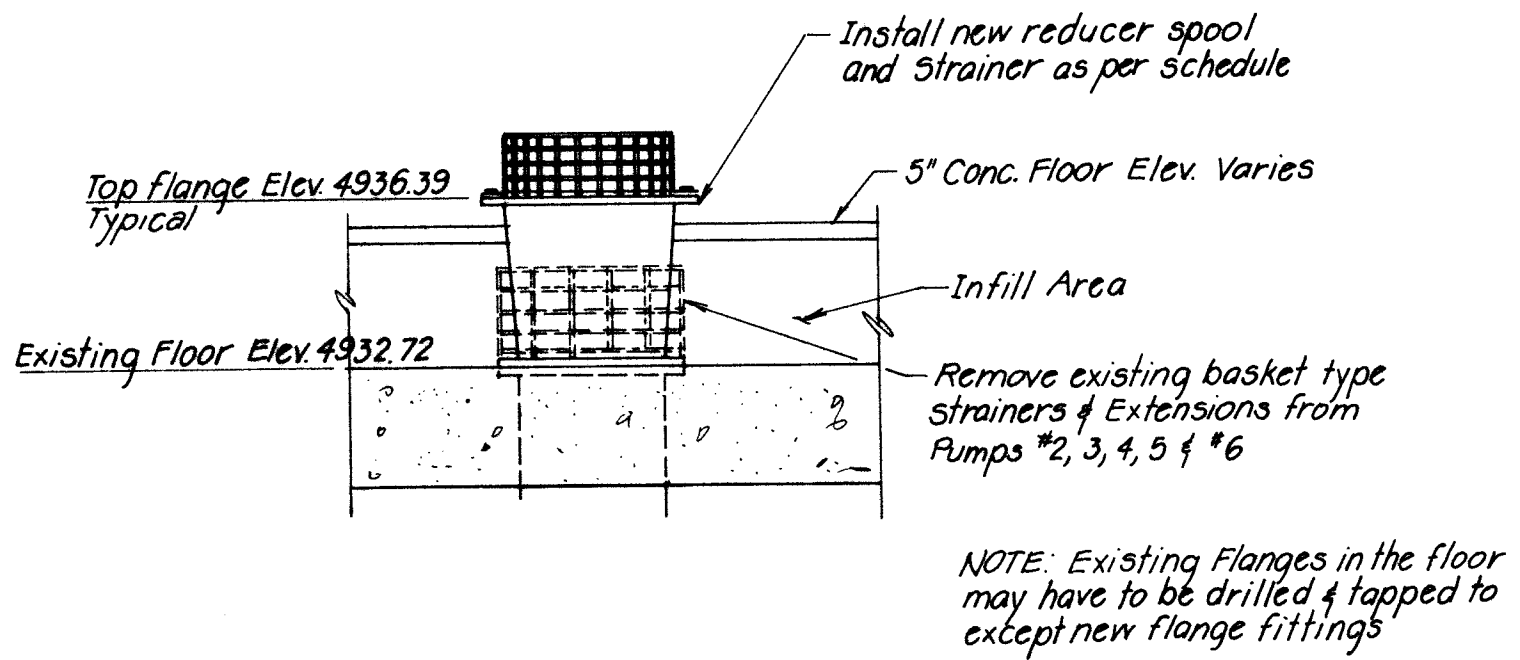
SHEET 13

26 1648 1384



PLAN
N.T.S.

NOTES:
New Strainers to be constructed of $\frac{1}{2}$ " smooth round bar, welded at each point of contact. Maximum opening to be 2" square. Strainers must be coated with Coal Tar Epoxy



SUCTION PIPE EXTENSION DETAILS
N.T.S.

SUCTION PIPE EXTENSION SCHEDULE			
Pump No.	Spool	Reducer	Strainers
2	None	16"x18"	None
3	18" Dia.	18"x30"	New or Modified one from Pump #4
4	30" Dia.	30"x36"	New or Modified one from Pump #5 or #6
5	None	36"x42"	New
6	None	36"x42"	New

NOTES: 1. Contractor to field verify all size and condition of existing wall sleeves, flanges and strainers before ordering any materials
2. Steel fittings may be substituted for Ductile Iron fittings. All steel fittings must be coated with Coal Tar Epoxy

RECORD DRAWING
JUN 1 1984

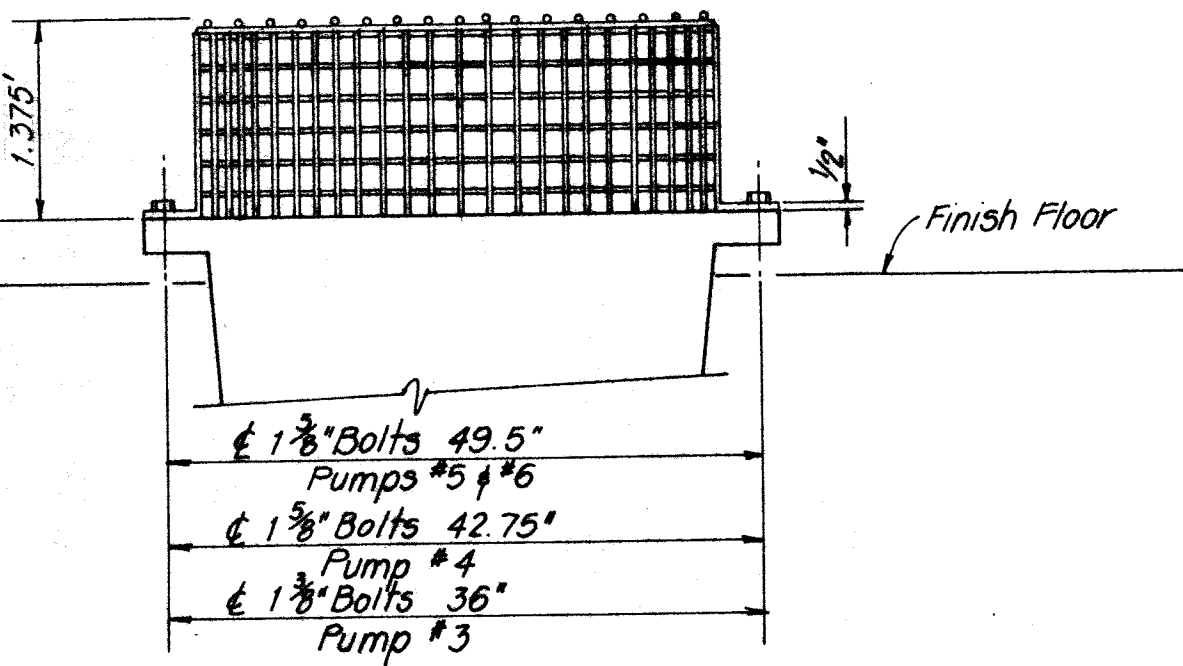
Date:
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

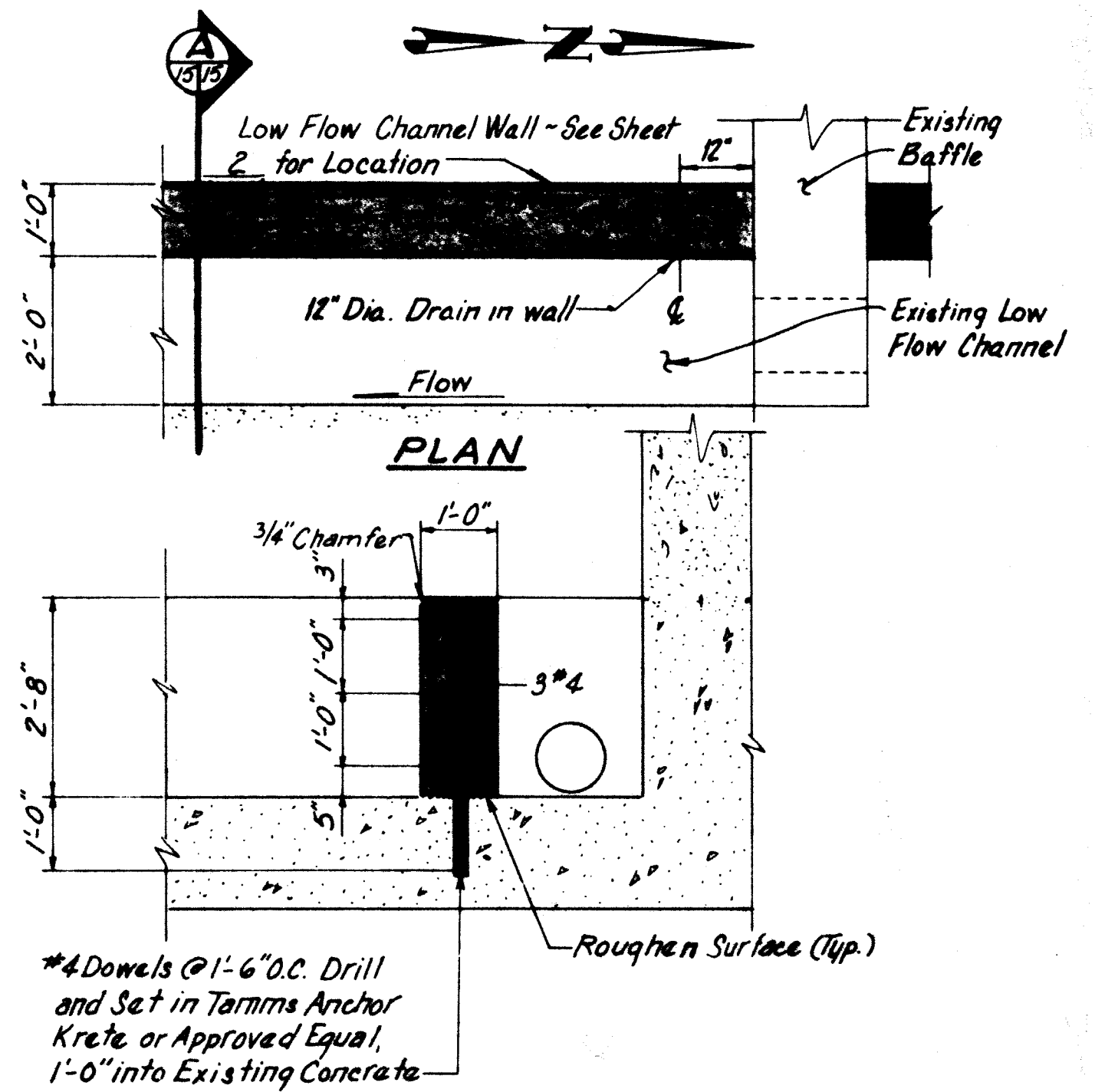
**SUCTION PIPE
INLET MODIFICATIONS**

26 1648 1484

SHEET 14



ELEVATION
N.T.S.



SECTION

WALL DETAILS

Scale: 1/2" = 1'-0"

RECORD DRAWING
JUN 1 1984

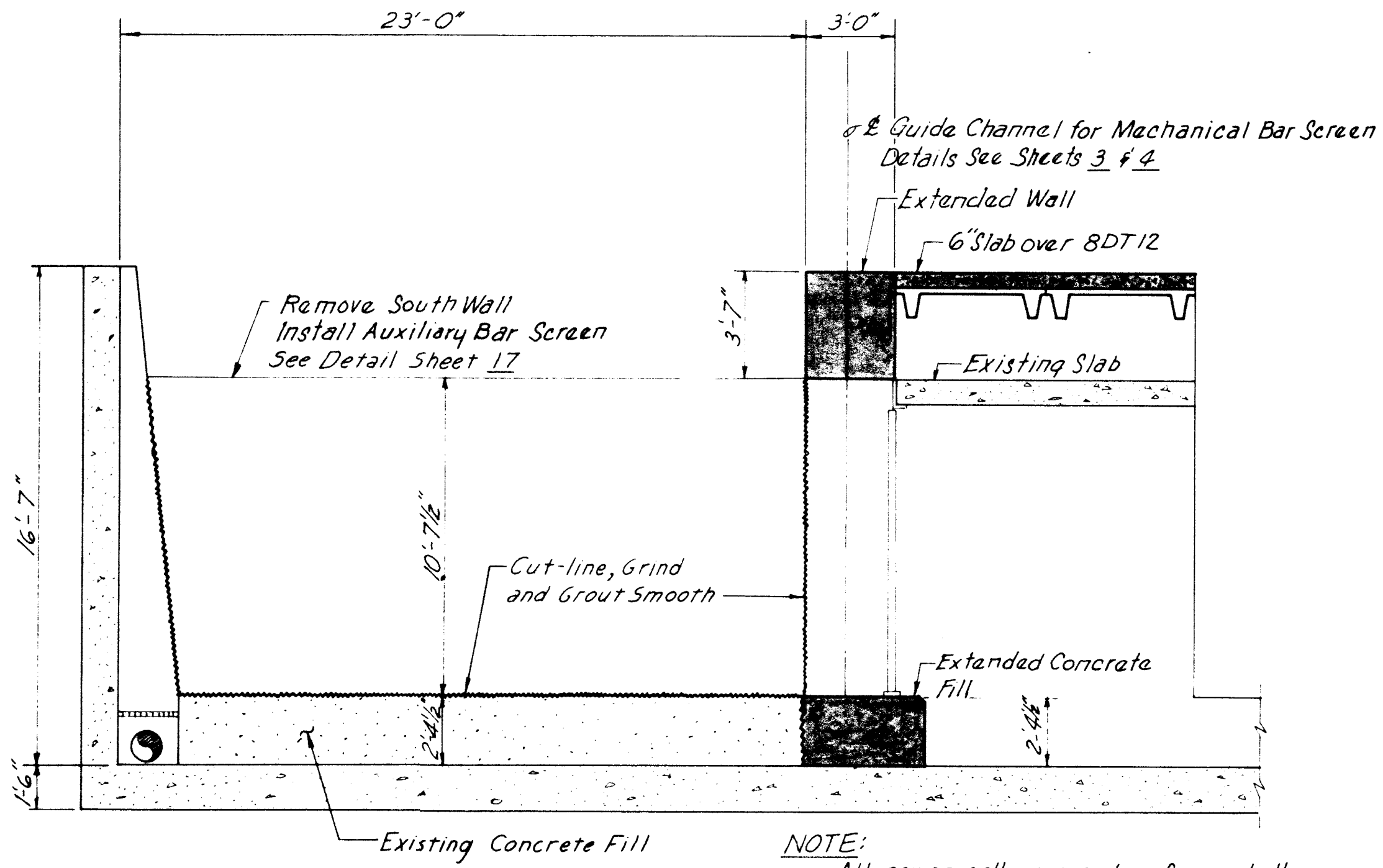
NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

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LOW FLOW CHANNEL WALL

2	6	1	6	4	8	1	5	8	4			
										SHEET 15		

2616481684



C SECTION
3/5 Scale: 1/4"=1'-0"

NOTE:

All permanently exposed surfaces shall be ground smooth. Exposed steel shall be cut 2" below Finish and a cover of epoxy mortar placed over the area.

RECORD DRAWING

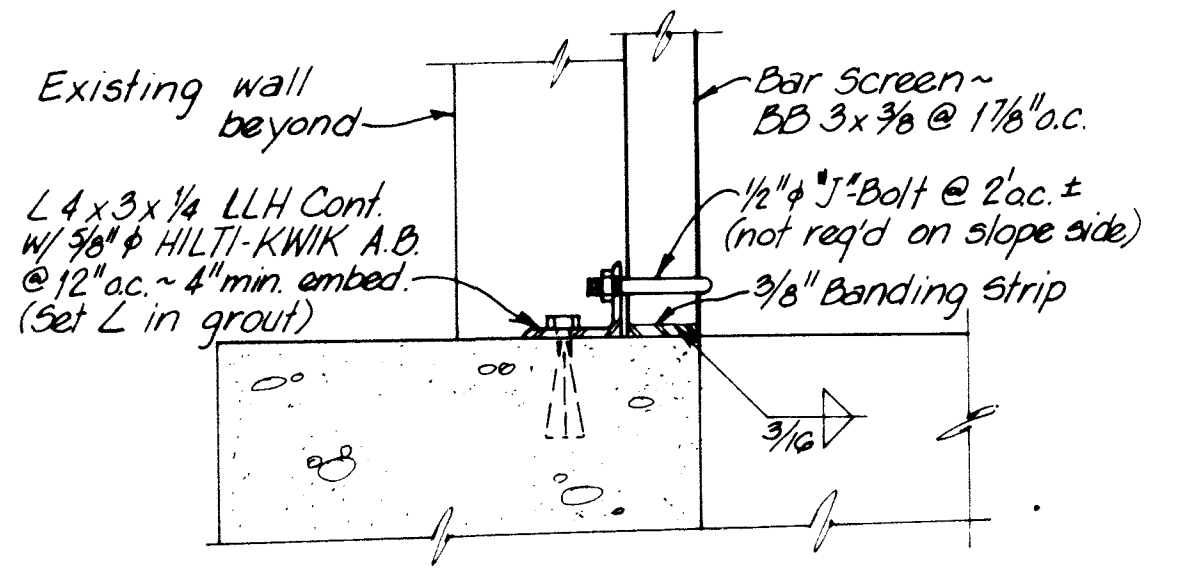
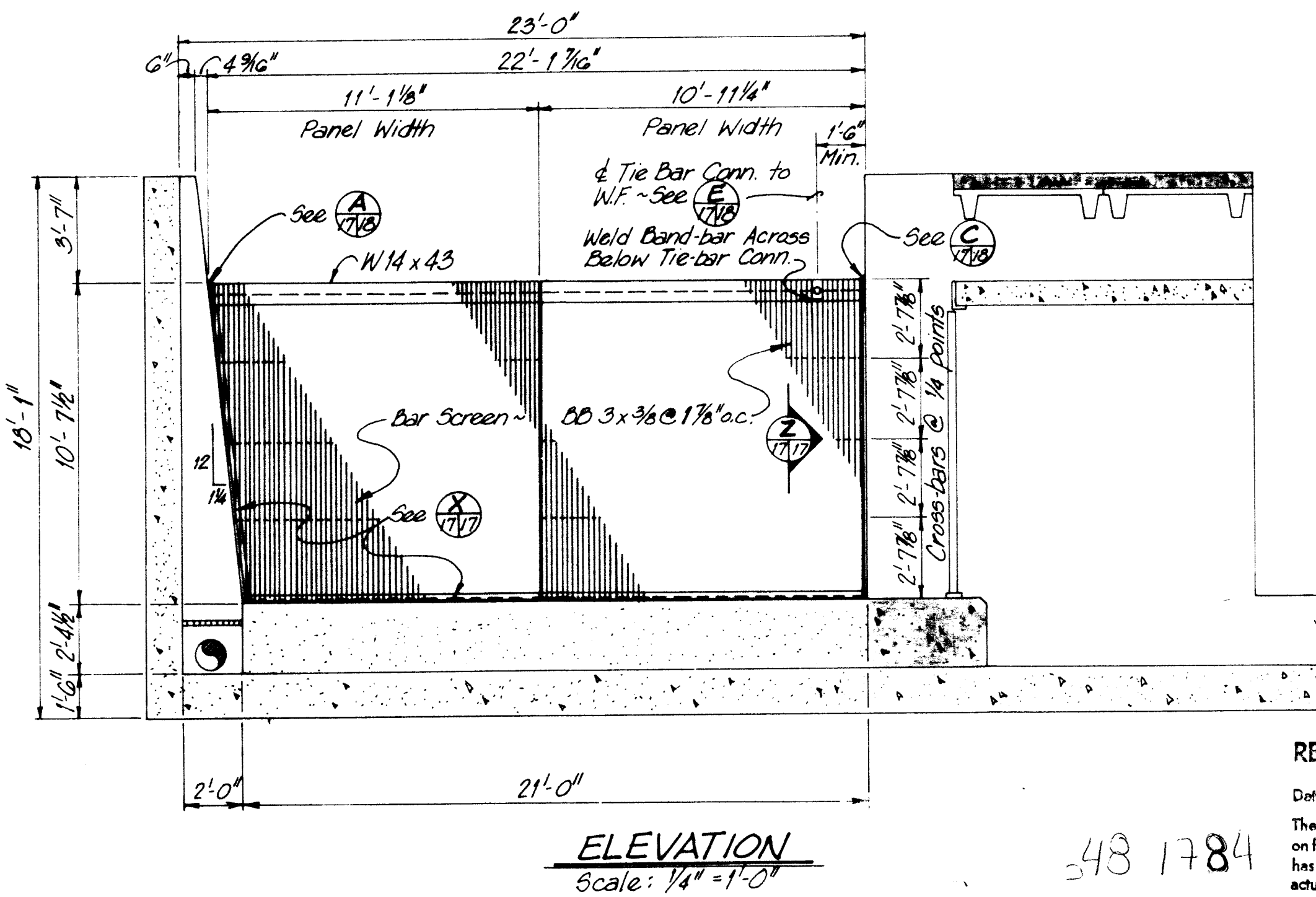
Date **JUN 1 1984**

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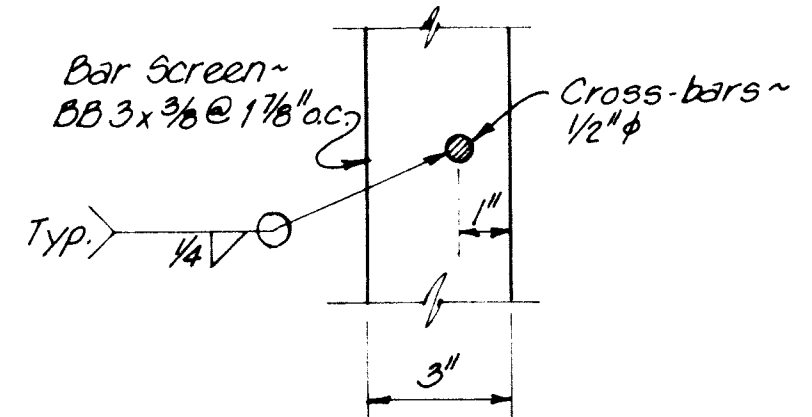
NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

AUXILIARY BAR SCREEN

SHEET 16



X SUPPORT ANGLE at BOTTOM & SLOPED SIDE
Scale: 1 1/2" = 1'-0"



Z CROSS-BAR DETAIL
Scale: 3" = 1'-0"

RECORD DRAWING
JUN 1 1984

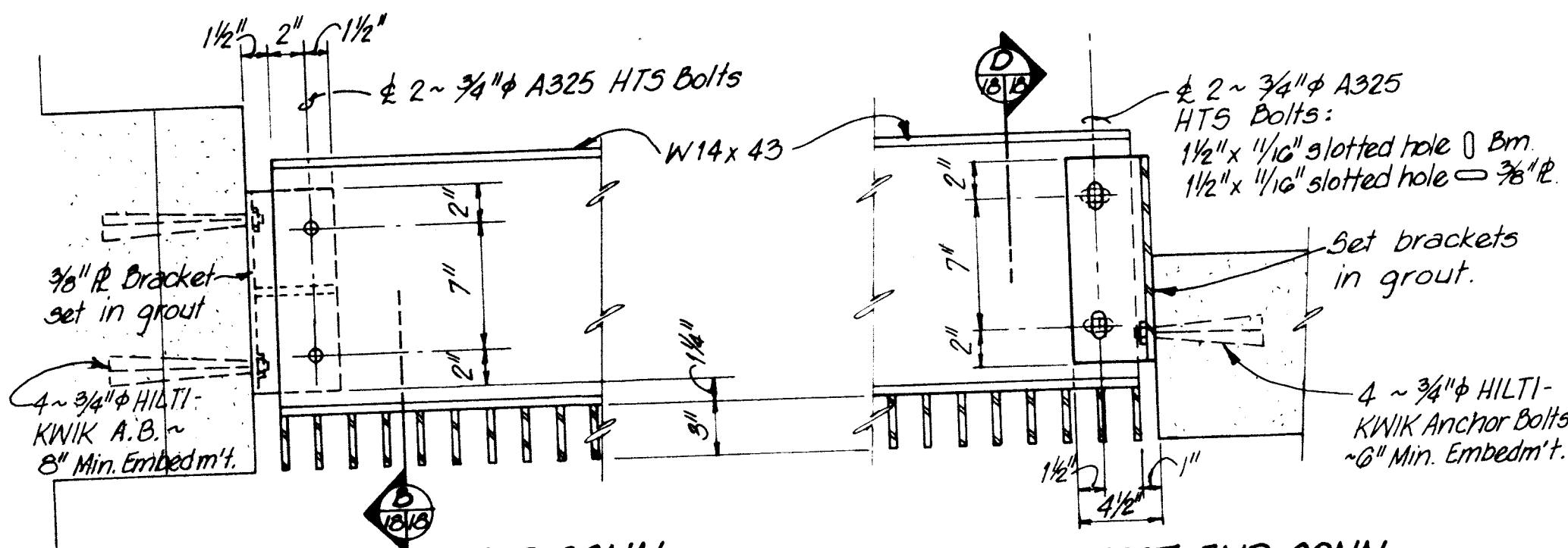
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NORTH BROADWAY PUMP STATION
WET WELL IMPROVEMENTS

AUXILIARY BAR SCREEN
CONNECTION DETAILS

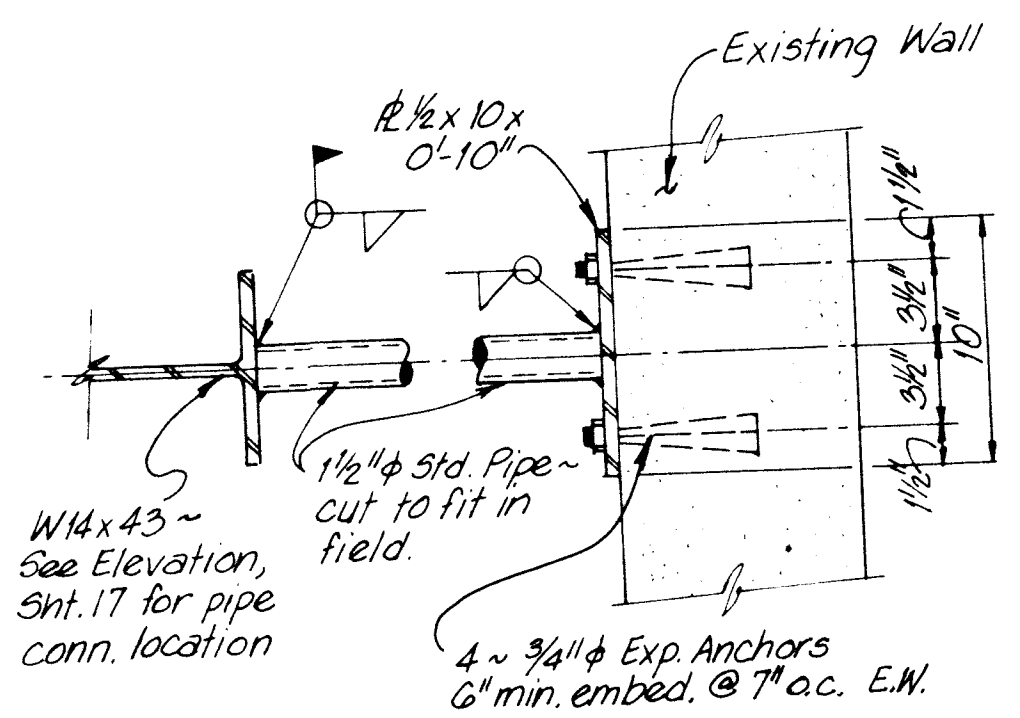
SHEET 17

48 1784

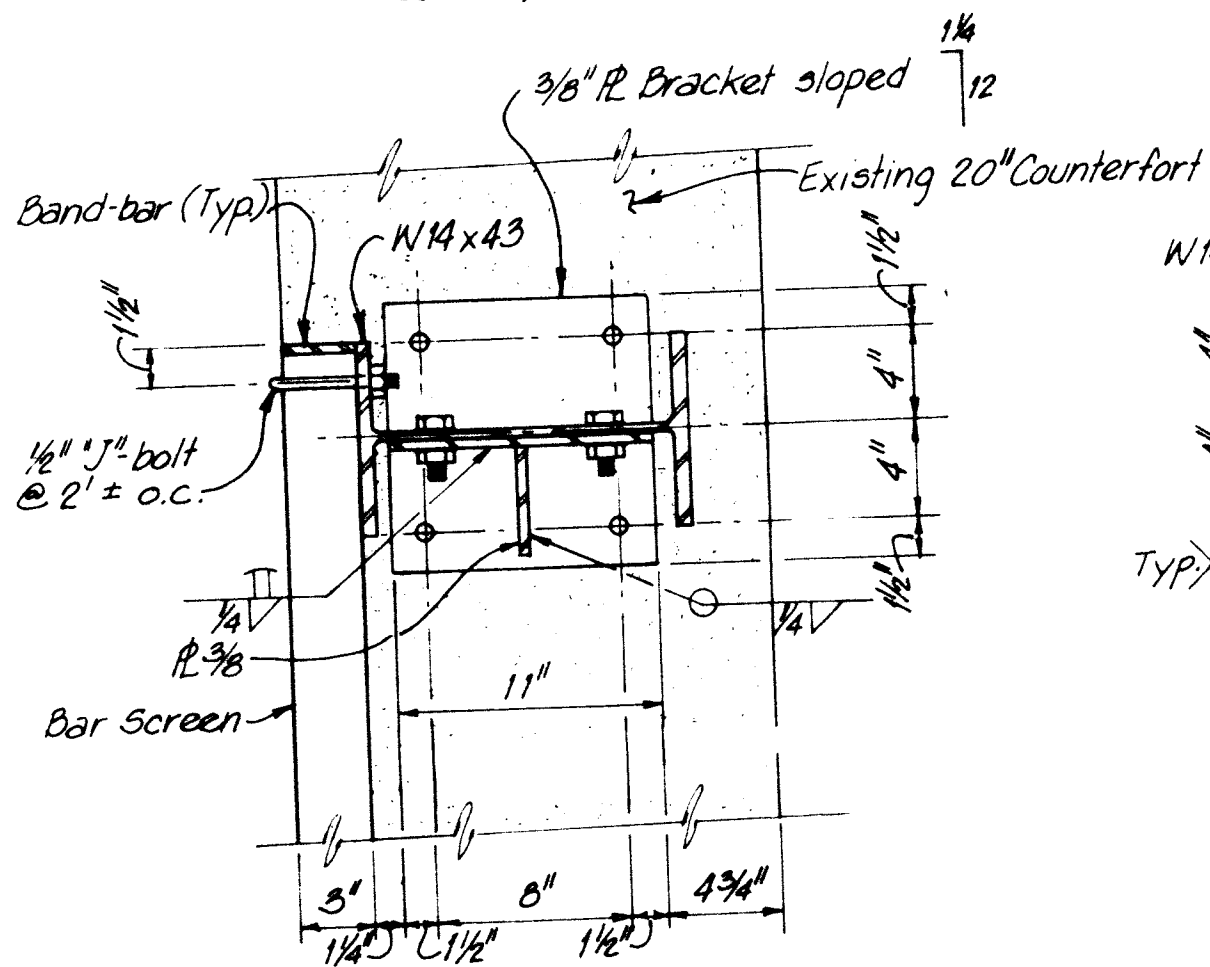


A PLAN ~ EAST END CONN.
Scale: 1 1/2" = 1'-0"

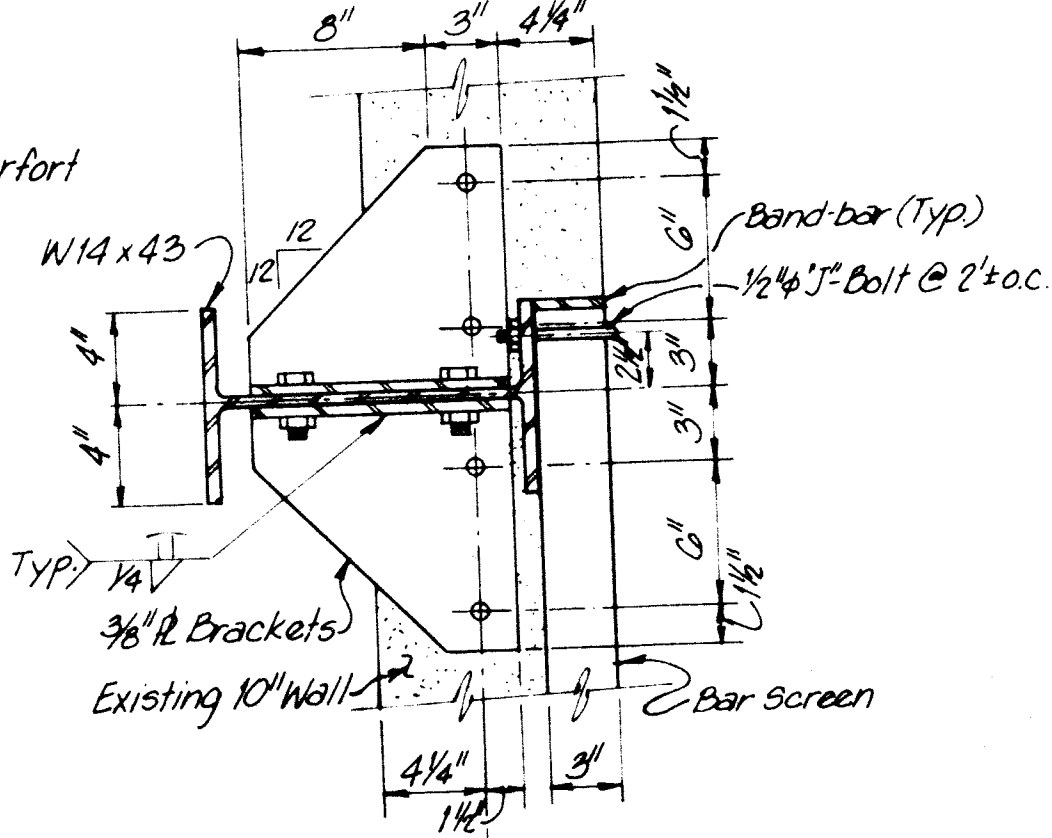
C PLAN ~ WEST END CONN.
Scale: 1 1/2" = 1'-0"



E TIE-BAR CONNECTIONS
Scale: 1 1/2" = 1'-0"



B SECTION
Scale: 1 1/2" = 1'-0"



D SECTION
Scale: 1 1/2" = 1'-0"

RECORD DRAWING
Date **JUN 1 1984**

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NORTH BROADWAY - 1P STATION
EMENTS

26 1648 1384 GREEN
CONNECTION DETAILS

SHEET 18

