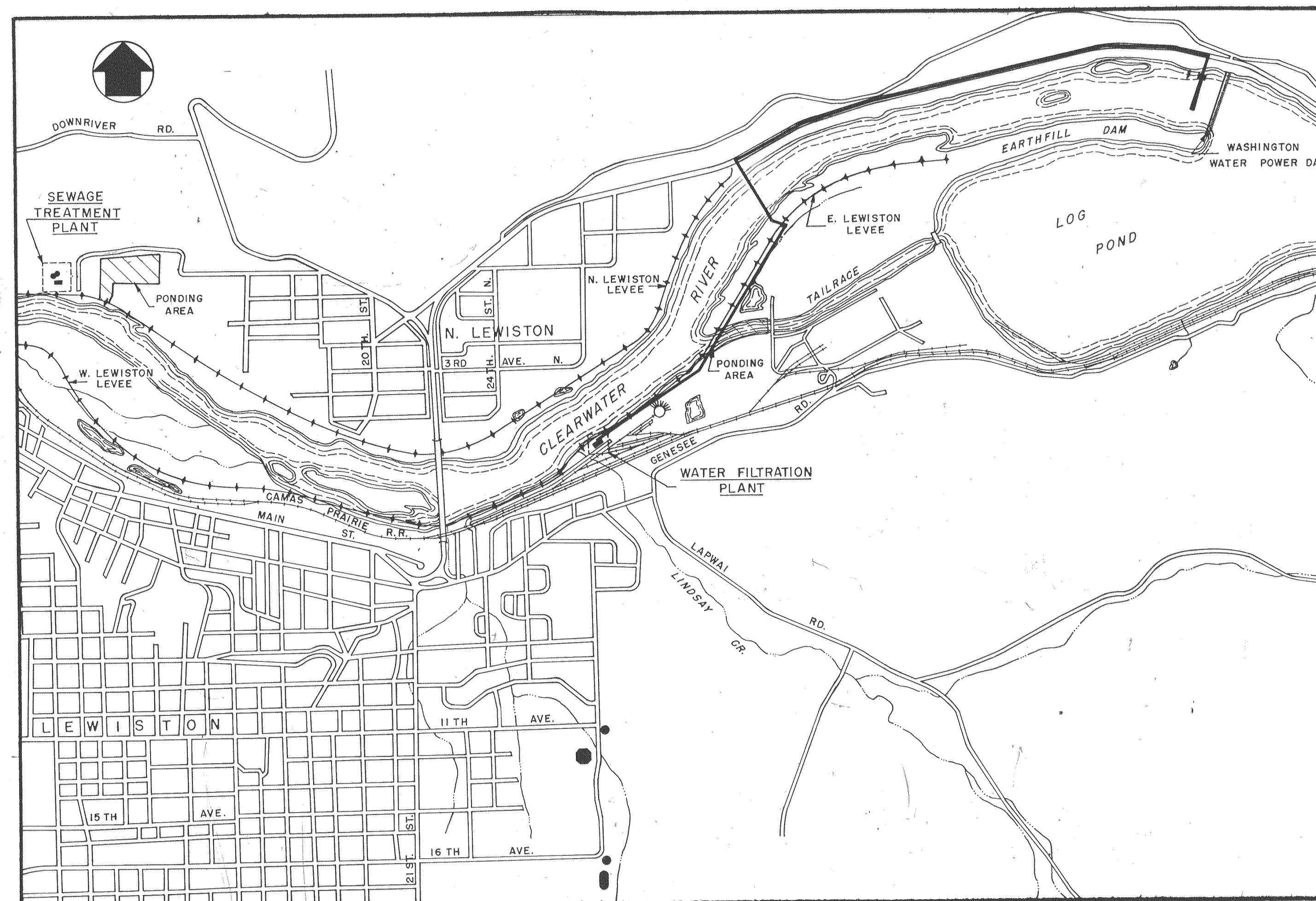
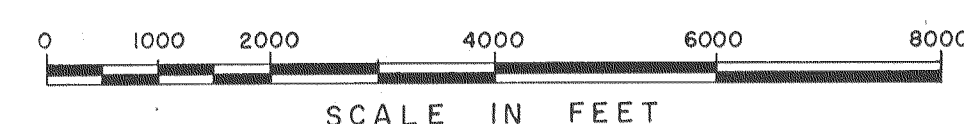




VICINITY MAP



CITY OF LEWISTON • IDAHO **WATER INTAKE AND RAW WATER SUPPLY LINE**

REVISED PER AS BUILT 1-22-75

INDEX OF DRAWINGS

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4/15	RAW WATER SUPPLY LINE PLAN & PROFILE - STA. 0+00 TO STA. 28+00	10934
5/15	RAW WATER SUPPLY LINE PLAN & PROFILE - STA. 28+00 TO STA. 58+00	10935
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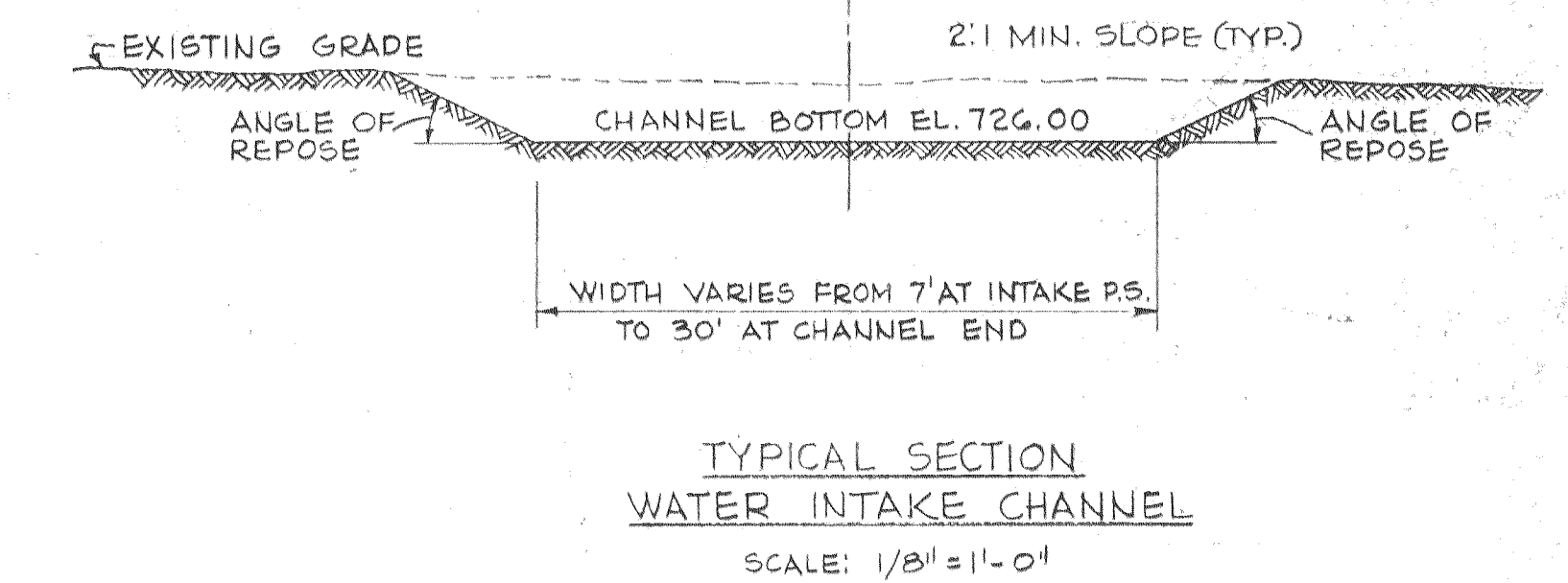
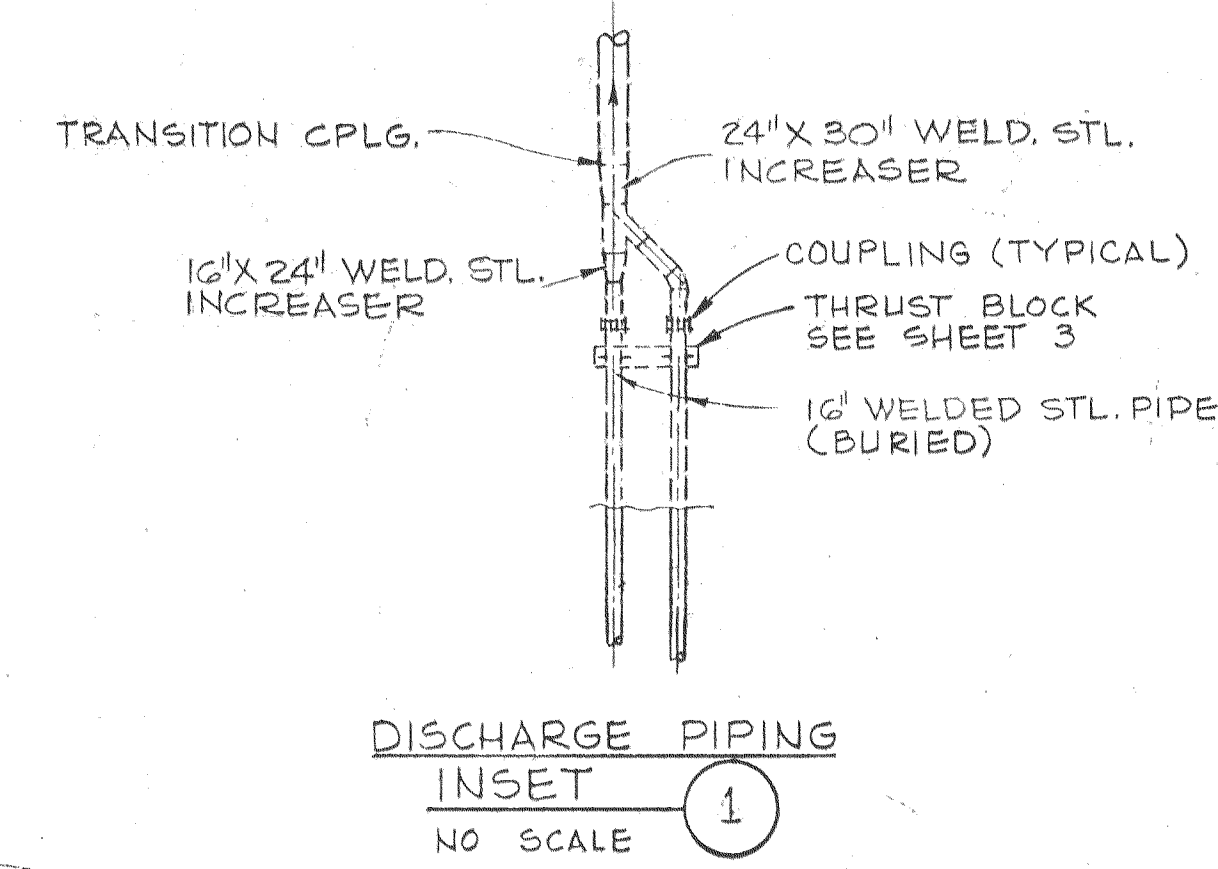
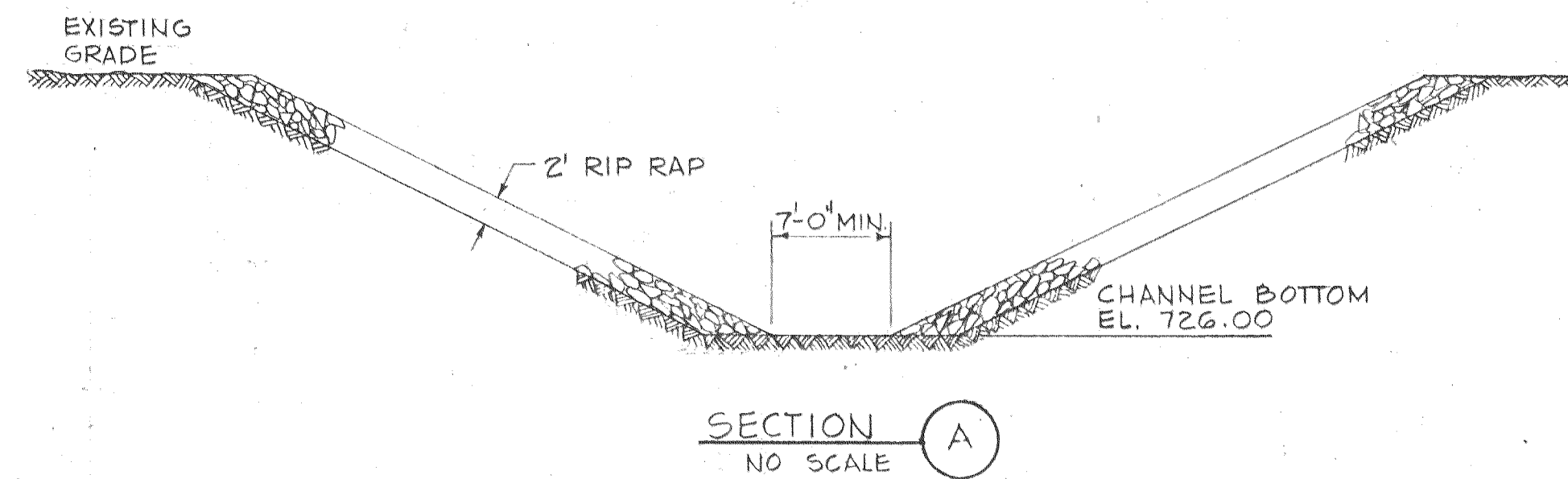


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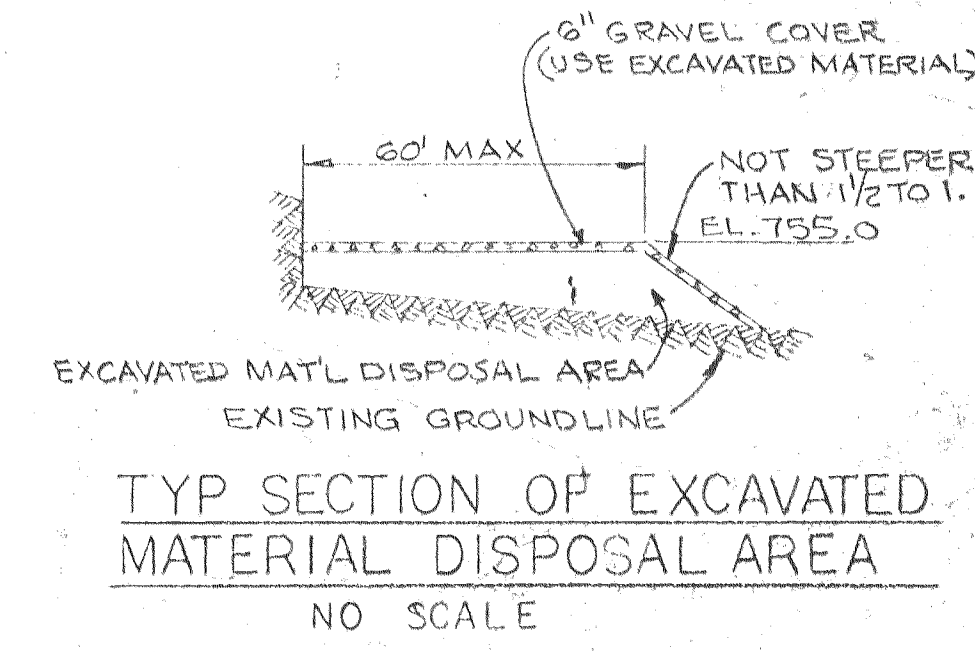
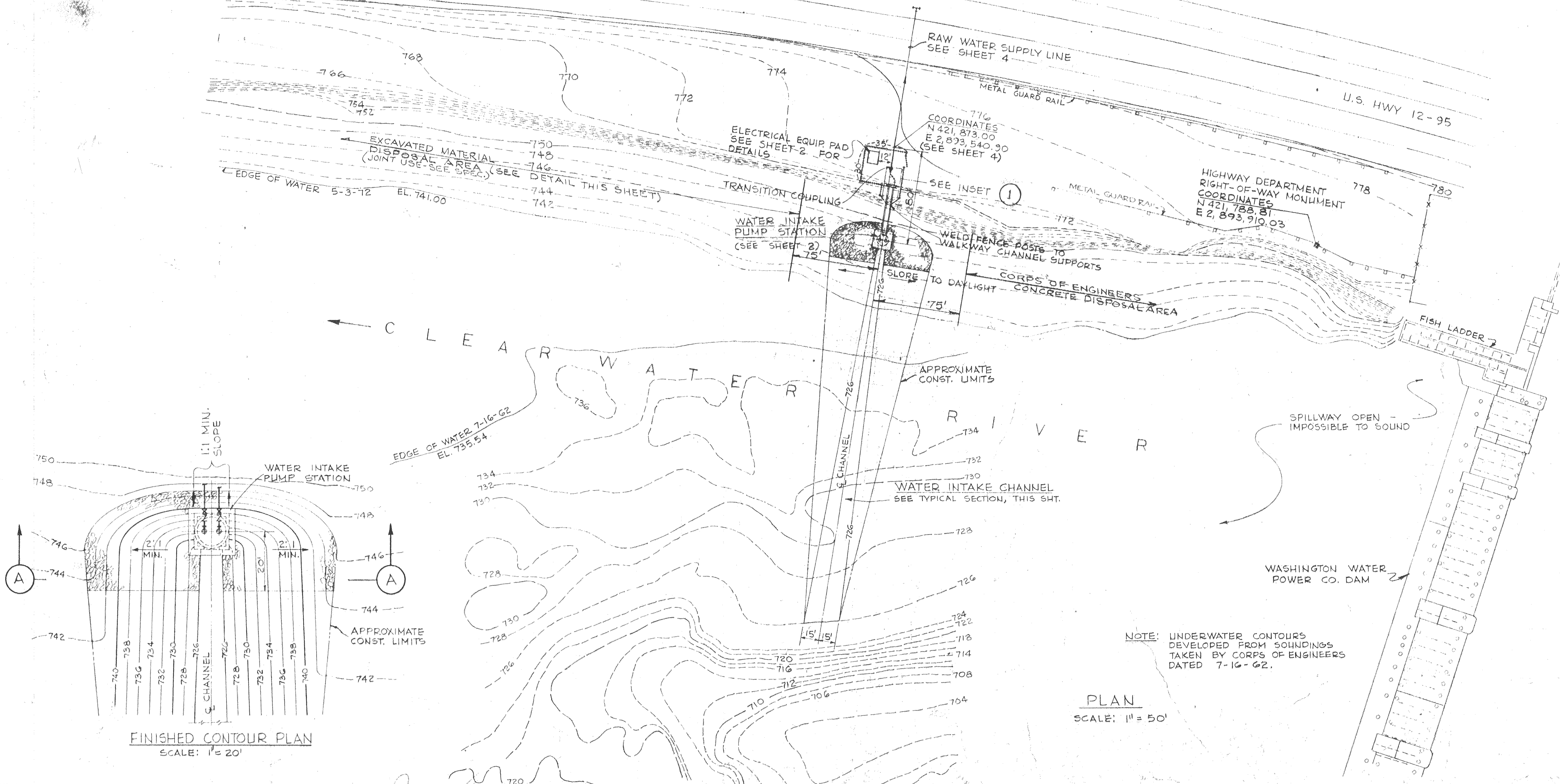
Engineers • Planners

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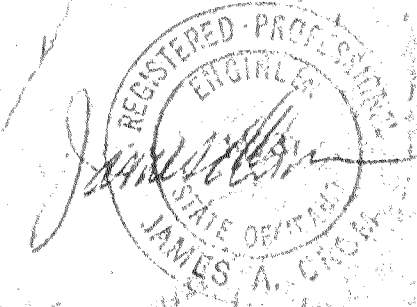
72-P-830.002



- LEGEND**
- 770 --- EXISTING CONTOURS
 - 746 --- NEW CONTOURS
 - x-x- EXISTING CHAIN LINK FENCE
 - ▨ RIP RAP
 - x-x- NEW CHAIN LINK FENCE
 - NEW CHAIN LINK FENCE WITH REDWOOD SLATS



NOTE: UNDERWATER CONTOURS DEVELOPED FROM SOUNDINGS TAKEN BY CORPS OF ENGINEERS DATED 7-16-62.

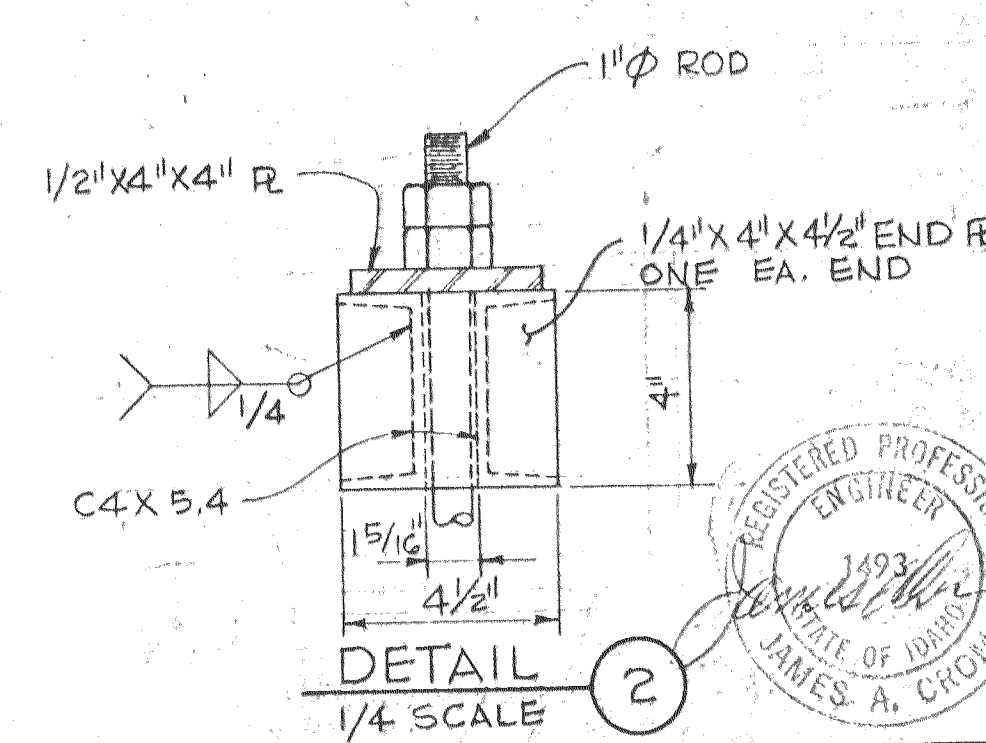
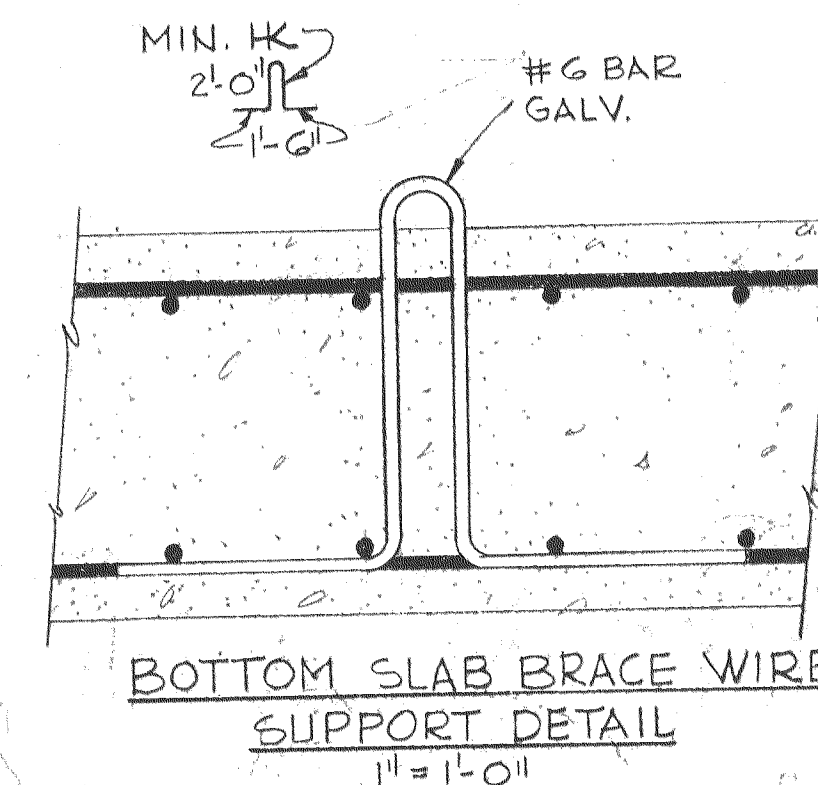
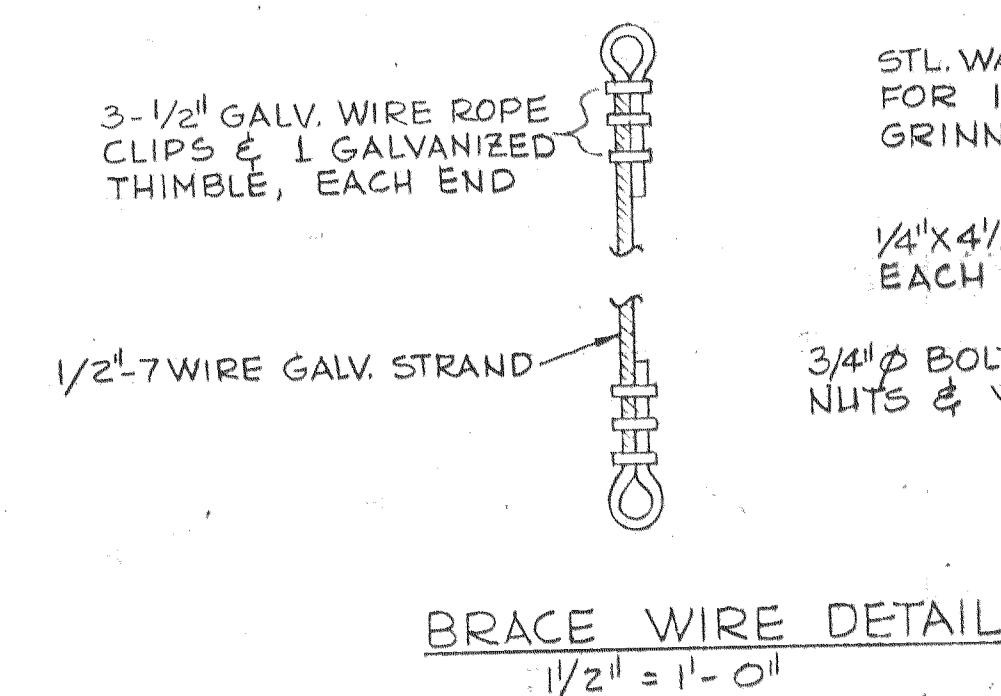
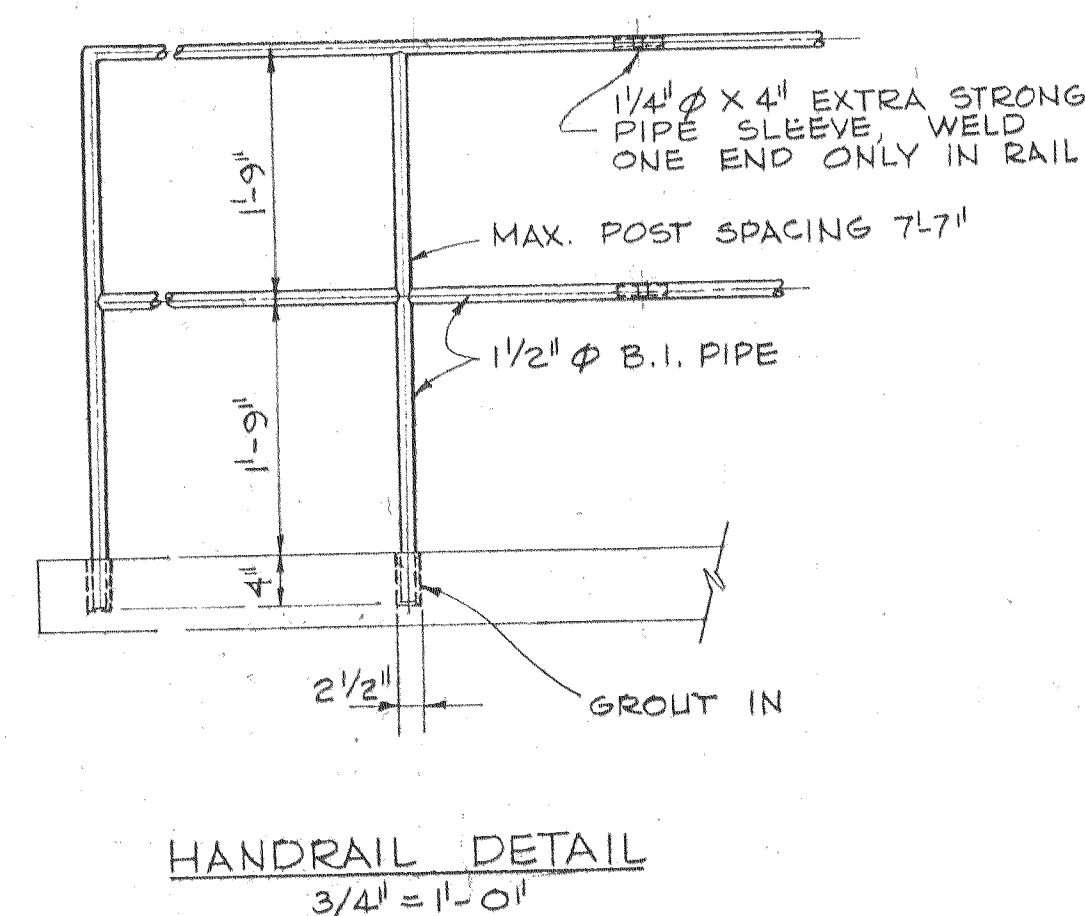
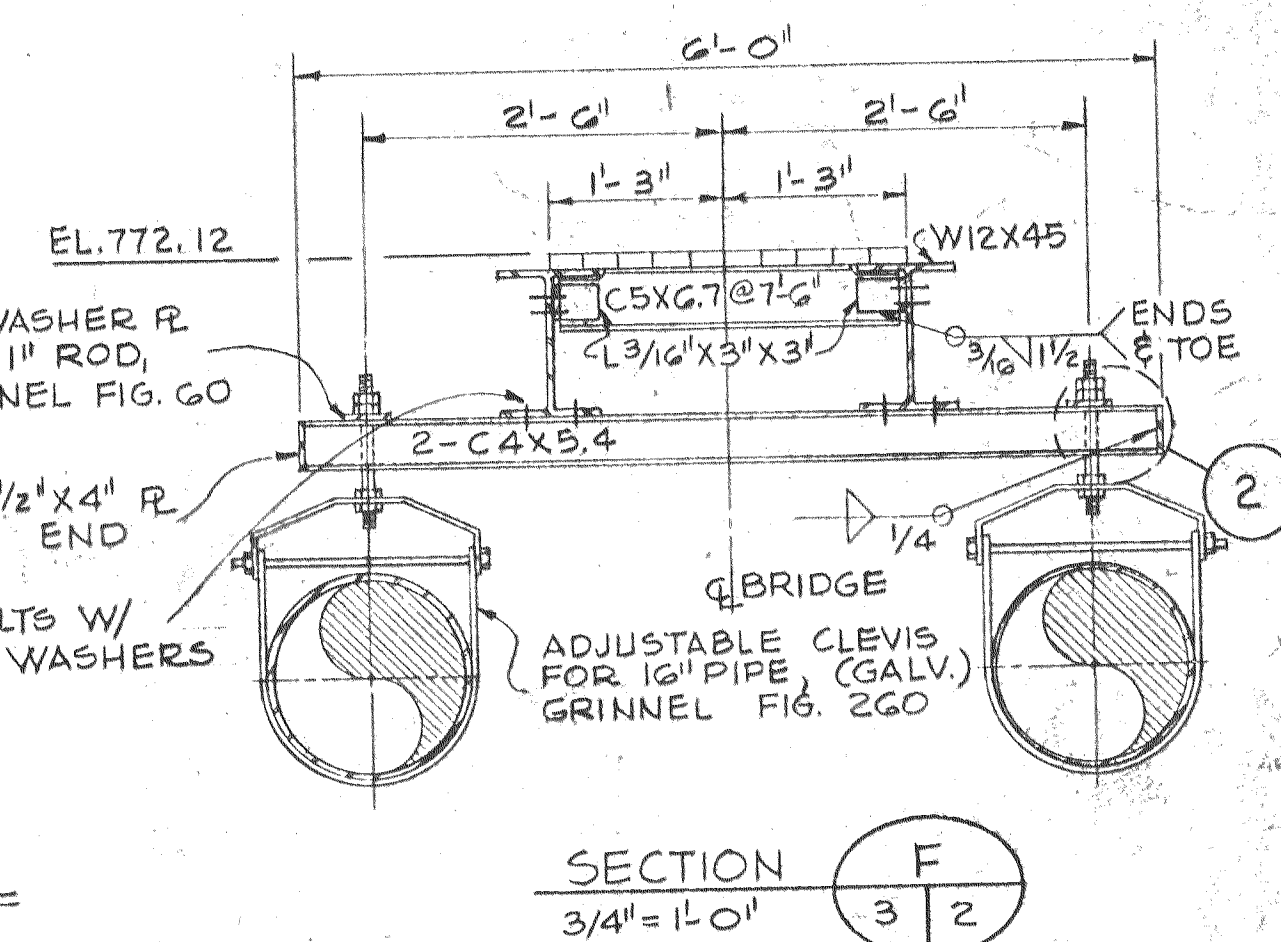
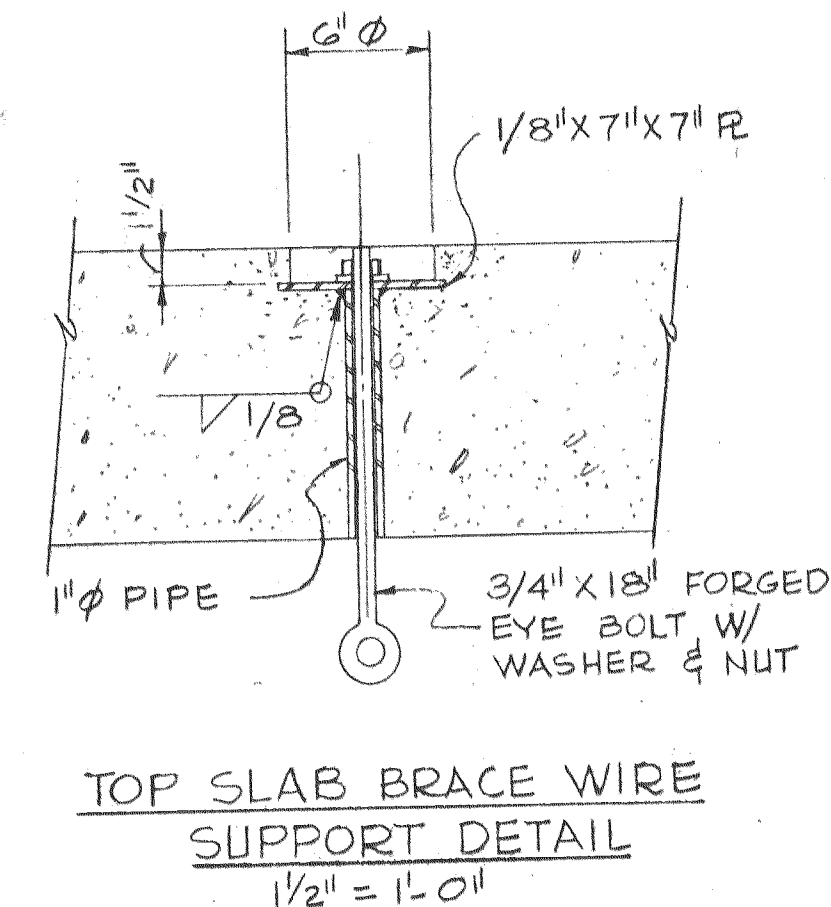
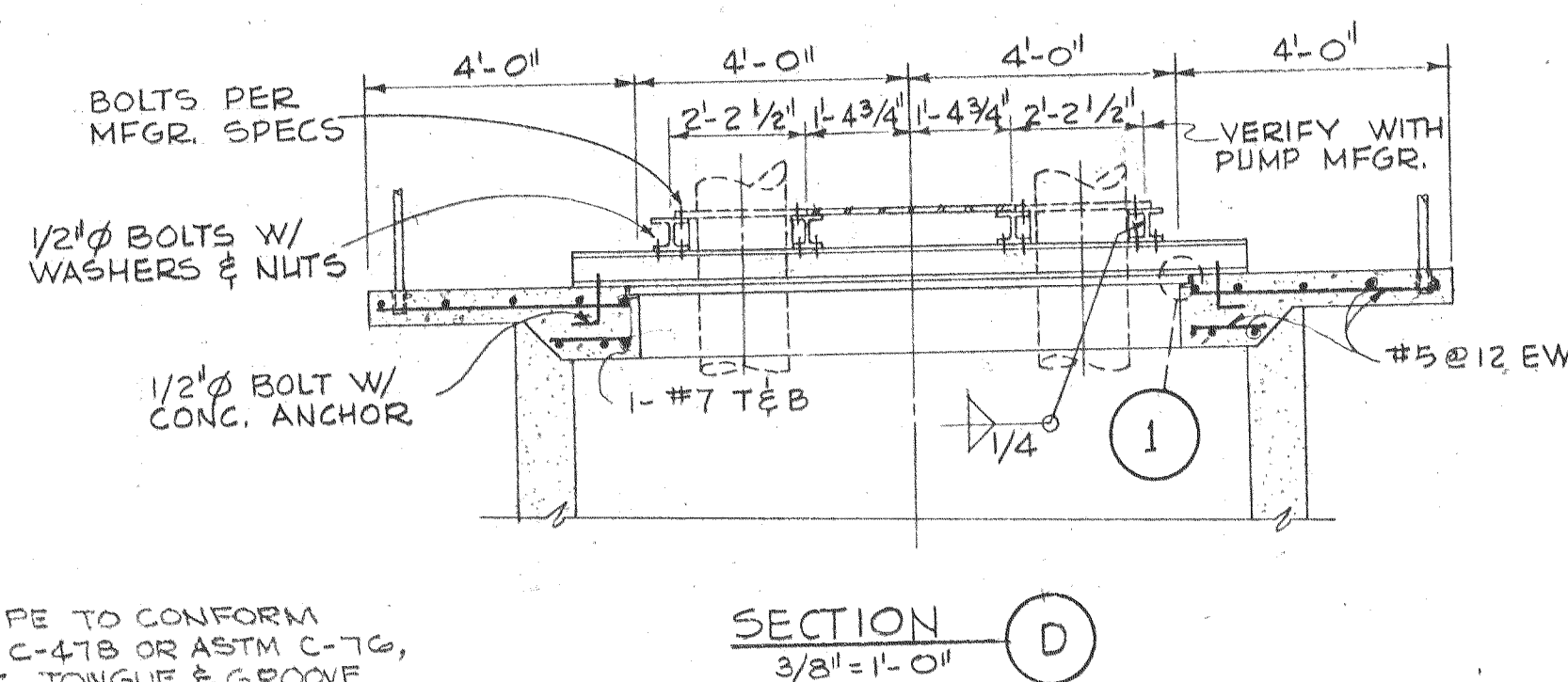
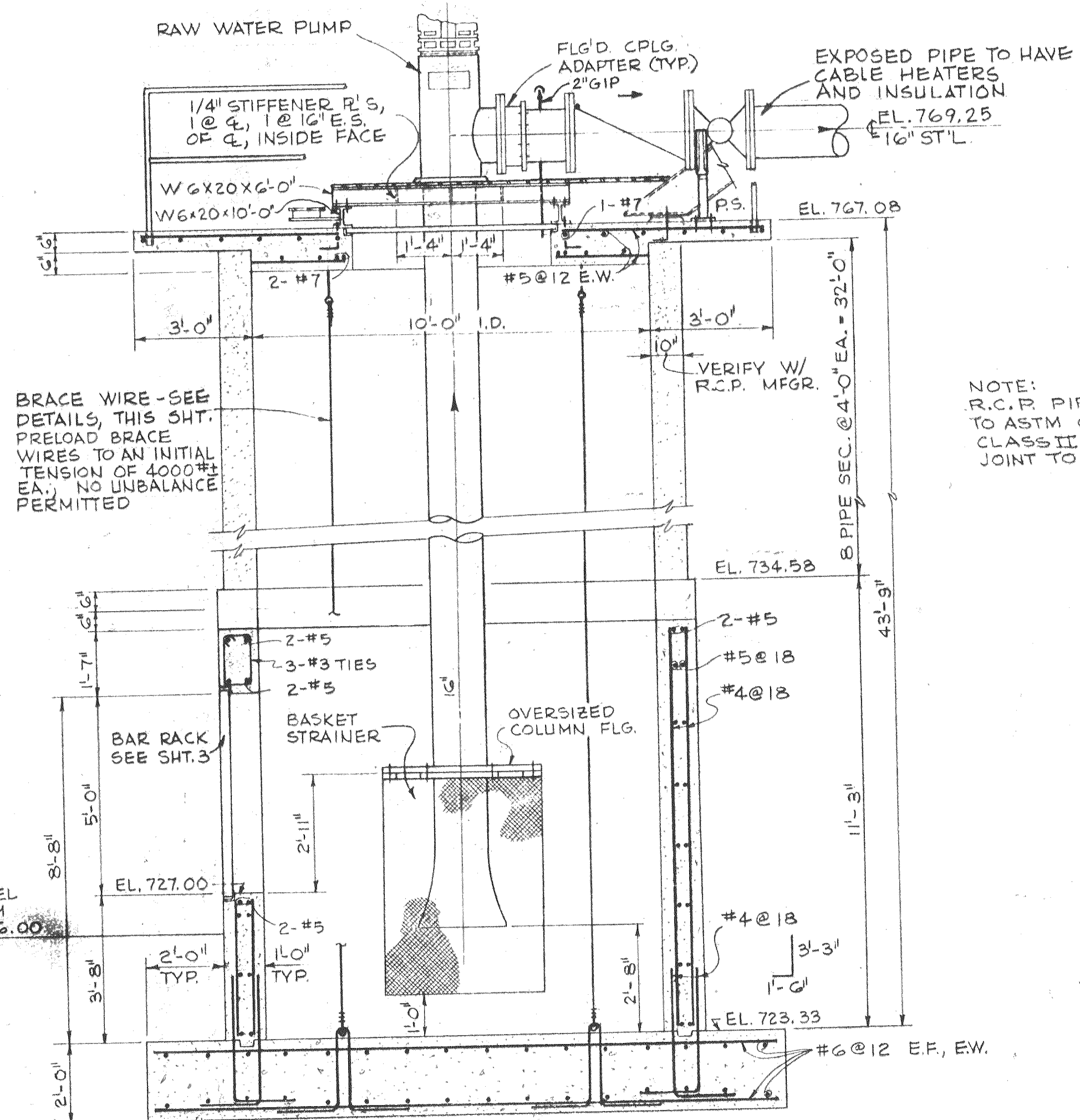
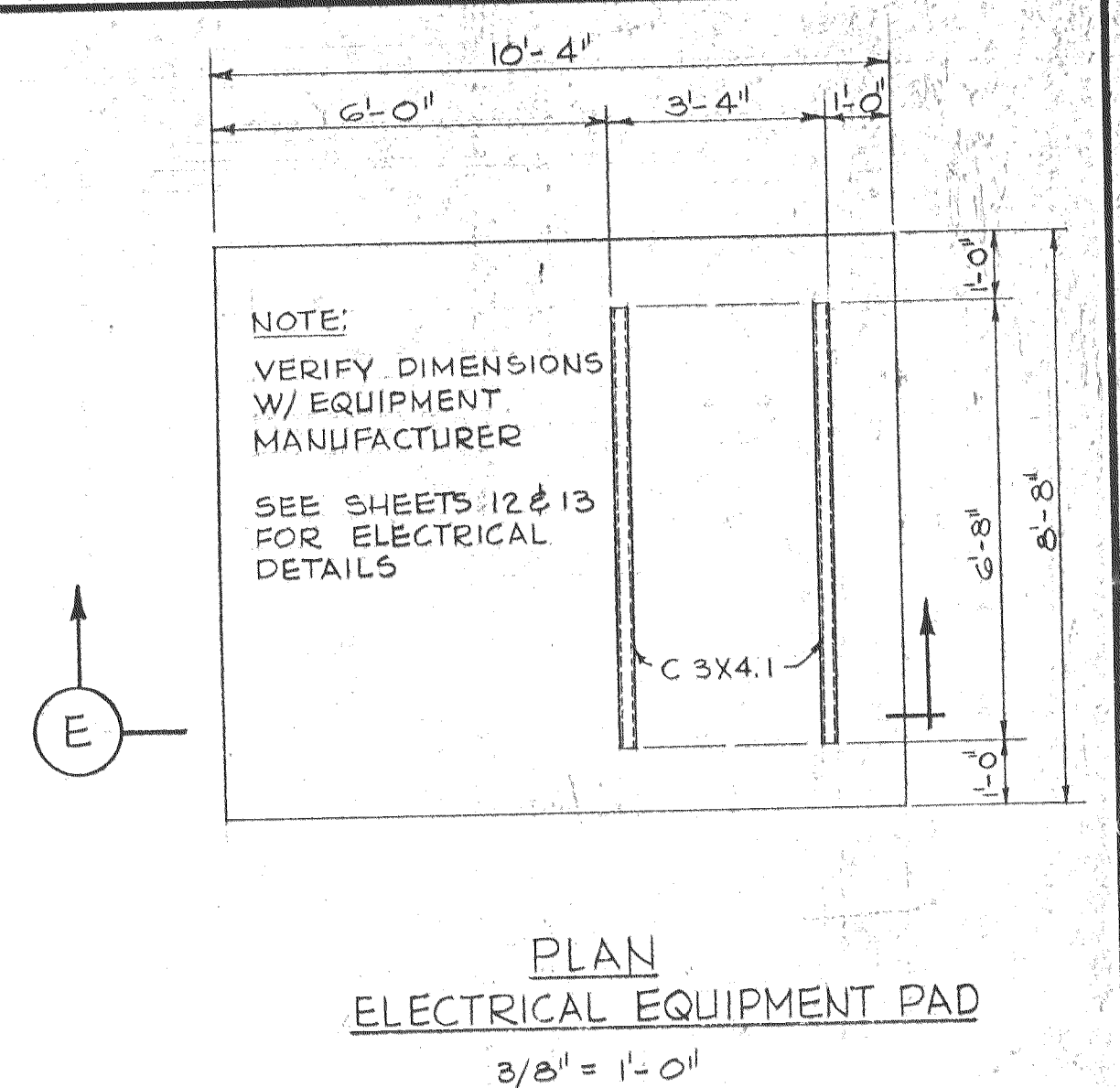
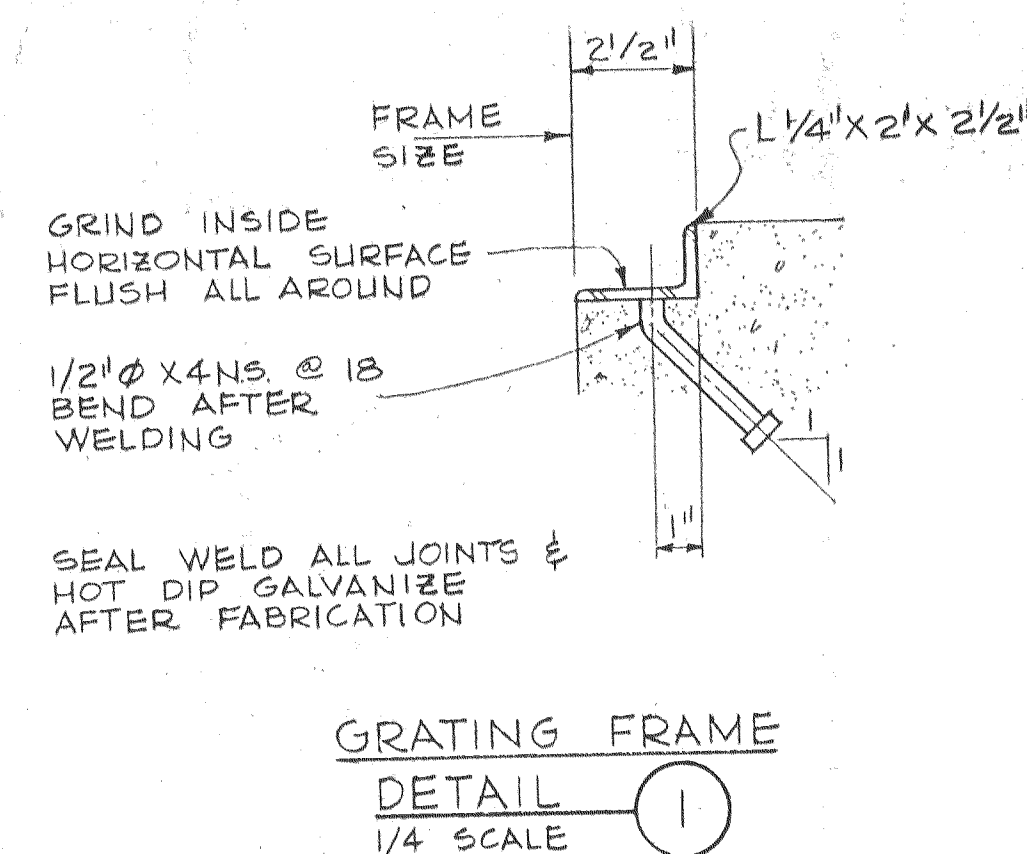
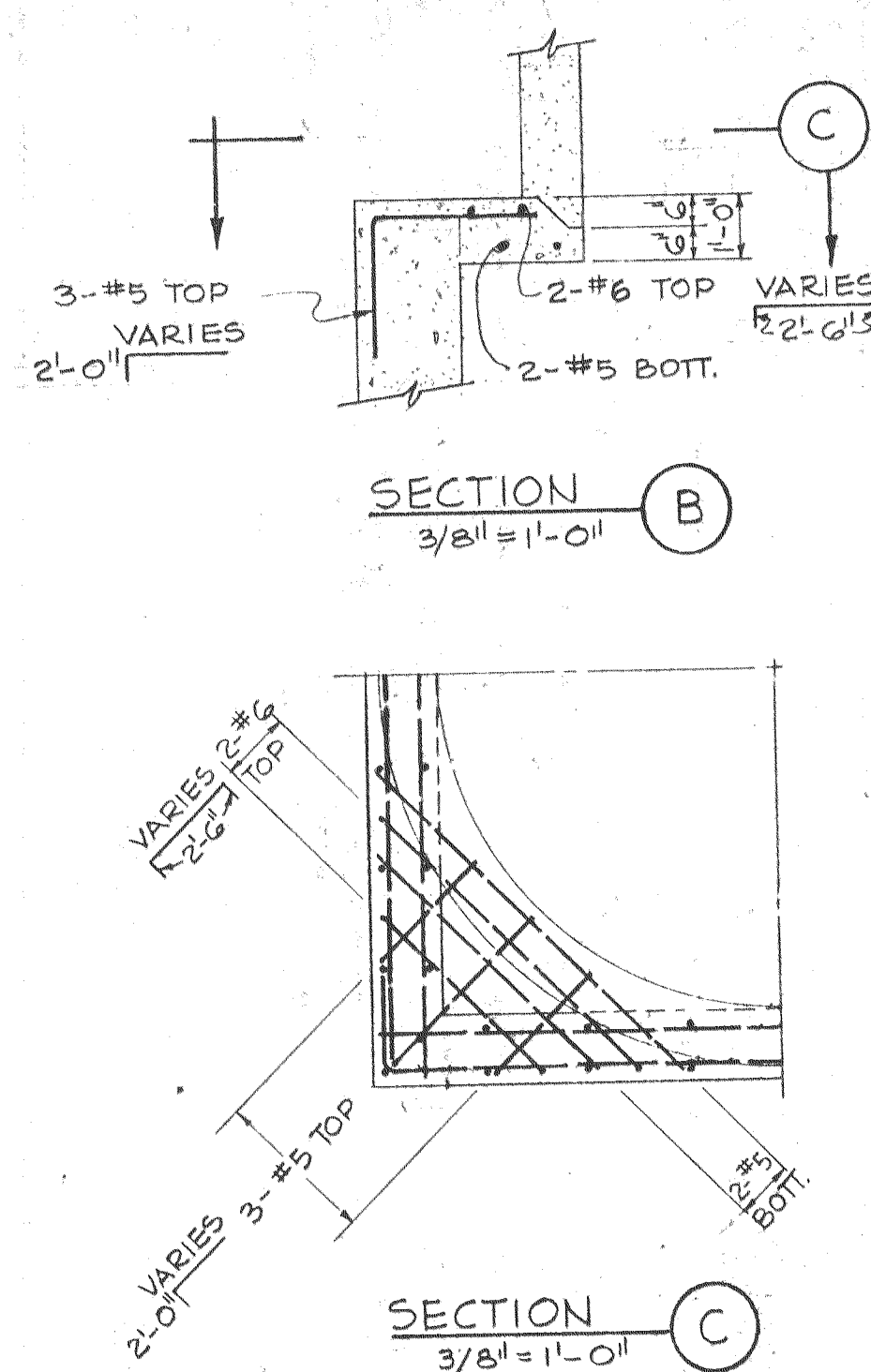
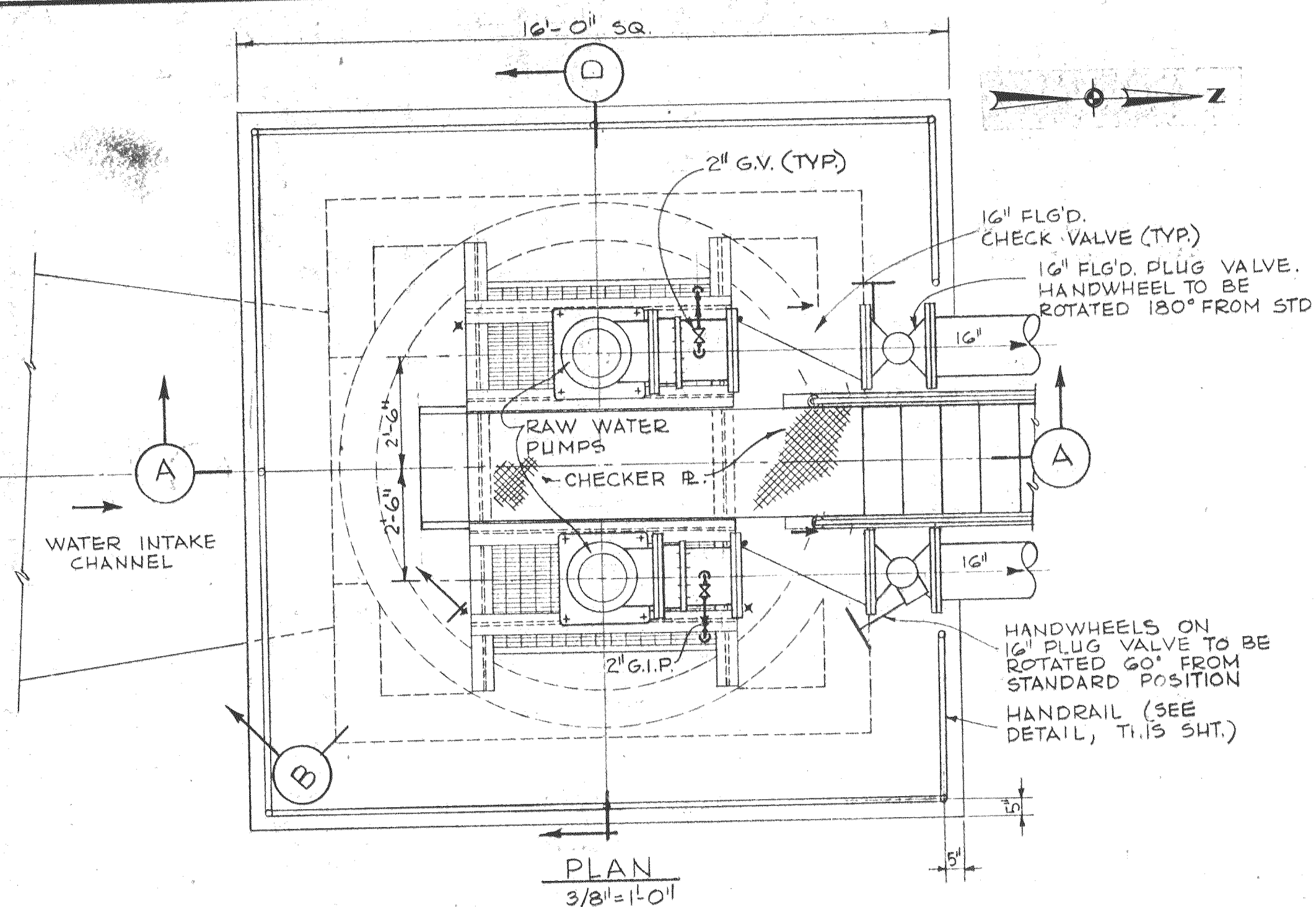


DESIGNED	DEA	APPROVED	
DRAWN	HFC, OF	SCALE	1" = 50'-0"
DATE	1-22-75	FILE	72-P-830.002, 10931
NO.	1	BY	JCB
REVISION	AS BUILT	CHECKED	HWT

Stevens, Thompson & Runyan, Inc.
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PORTLAND SEATTLE BOISE

CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

WATER INTAKE CHANNEL & PUMP STATION
SITE PLAN, GRADING, PIPING & DETAILS



				DESIGNED DEB, AAP		APPROVED <i>Amel Ebn</i>	
				DRAWN DGF		SCALE AS SHOWN	
						DATE AUG - 72	
I-22-75		1		AS BUILT			
DATE		NO.		REVISION			
				JCB			
				BY			
				CHECKED HWT, JGS		FILE 72-P-830,002, 10932	

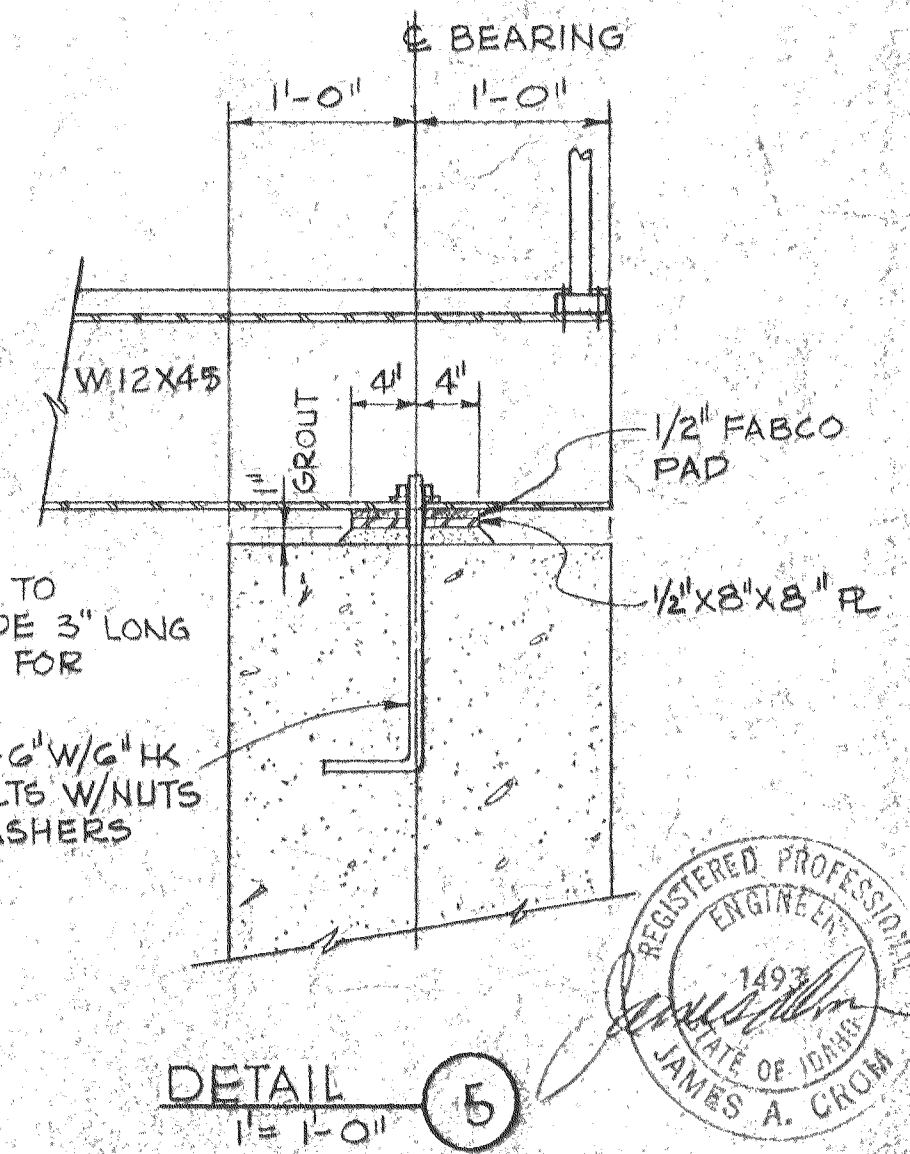
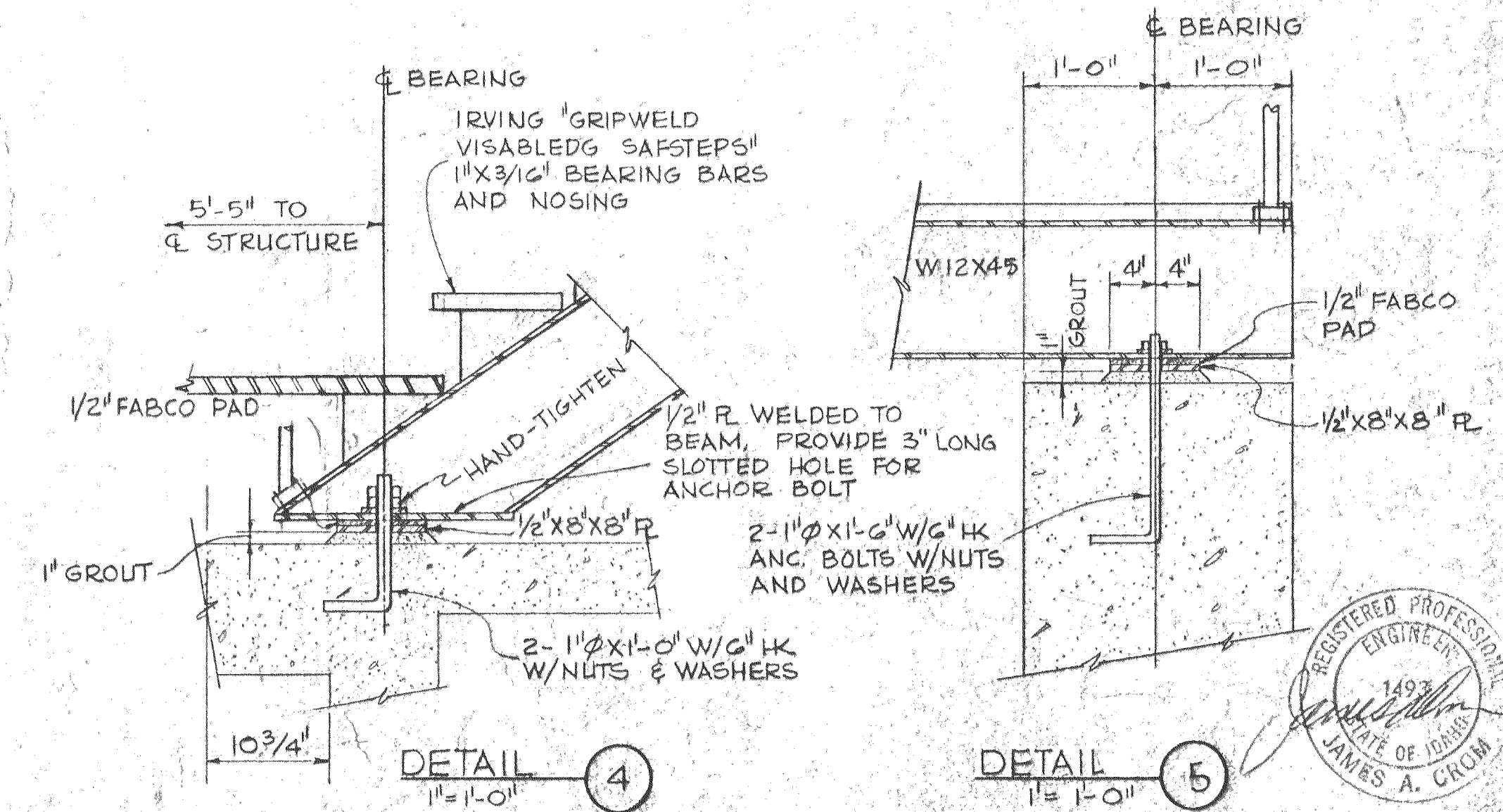
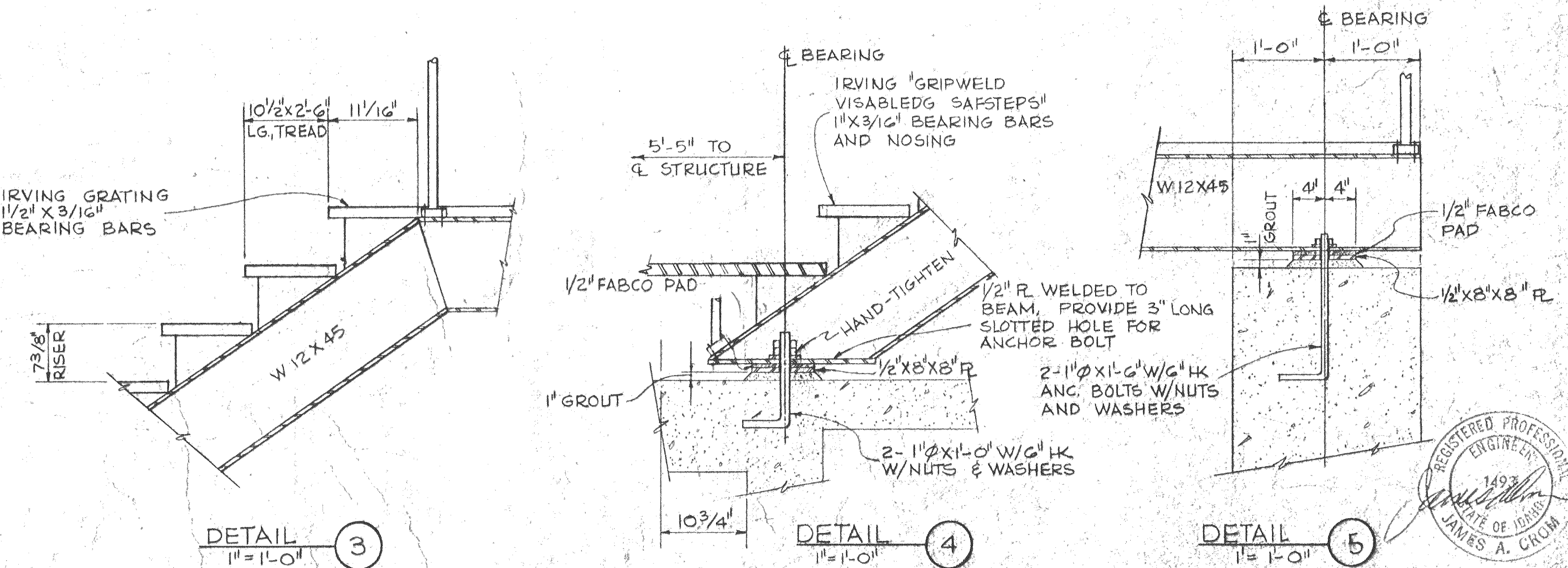
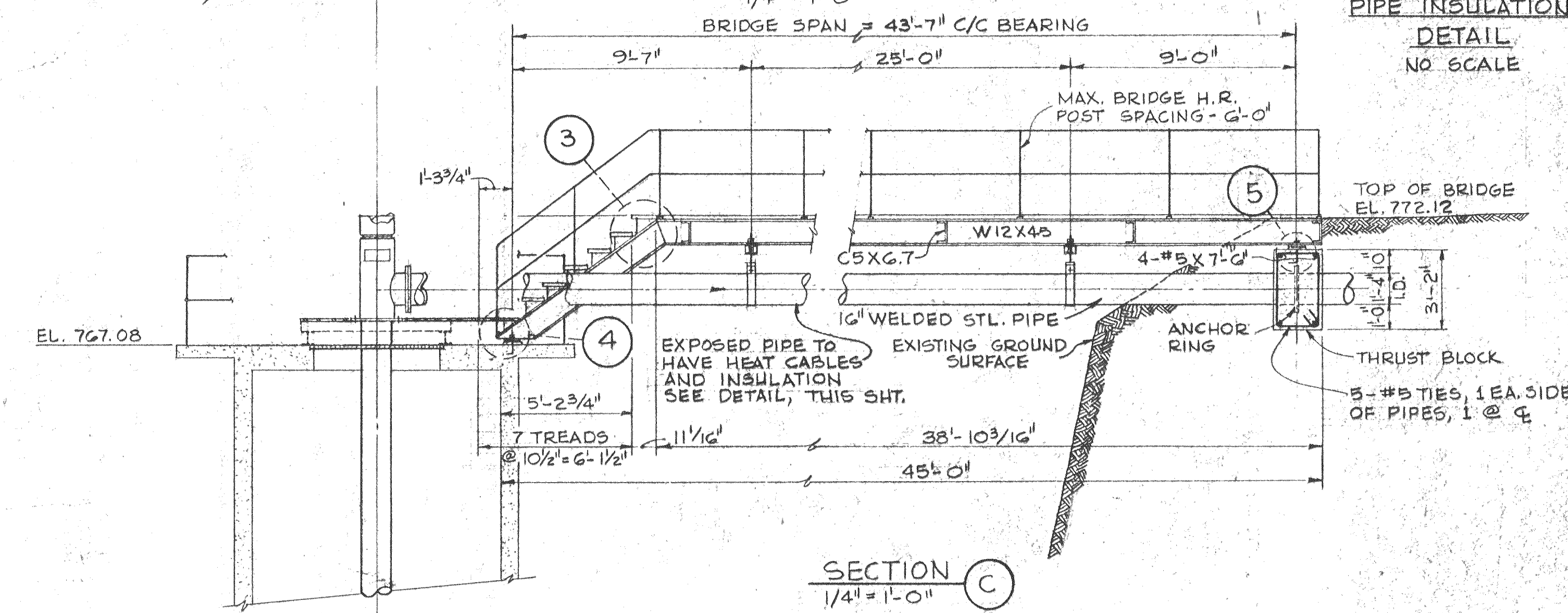
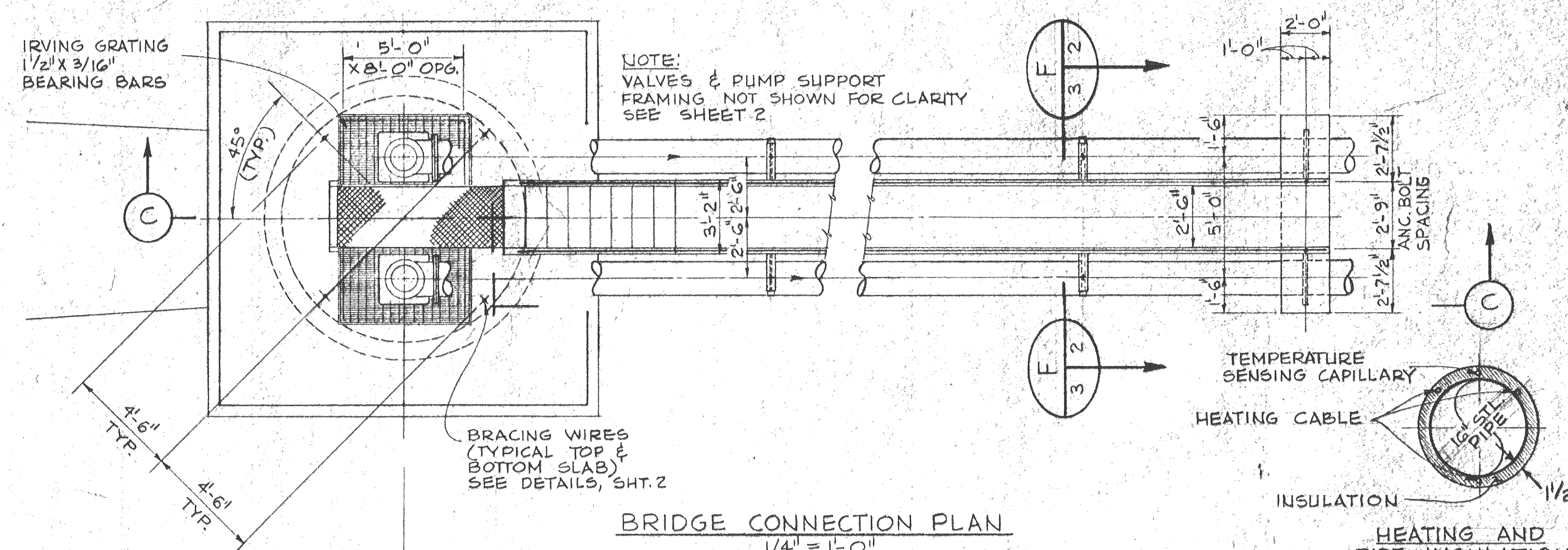
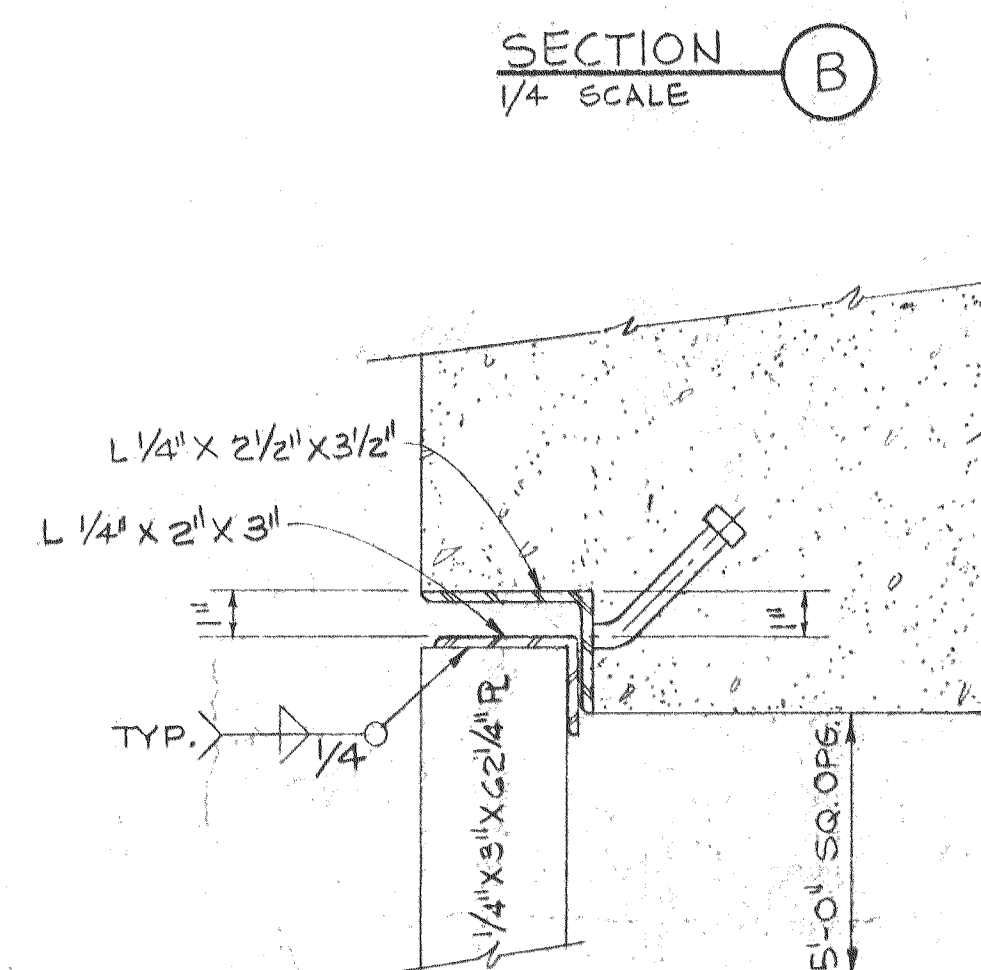
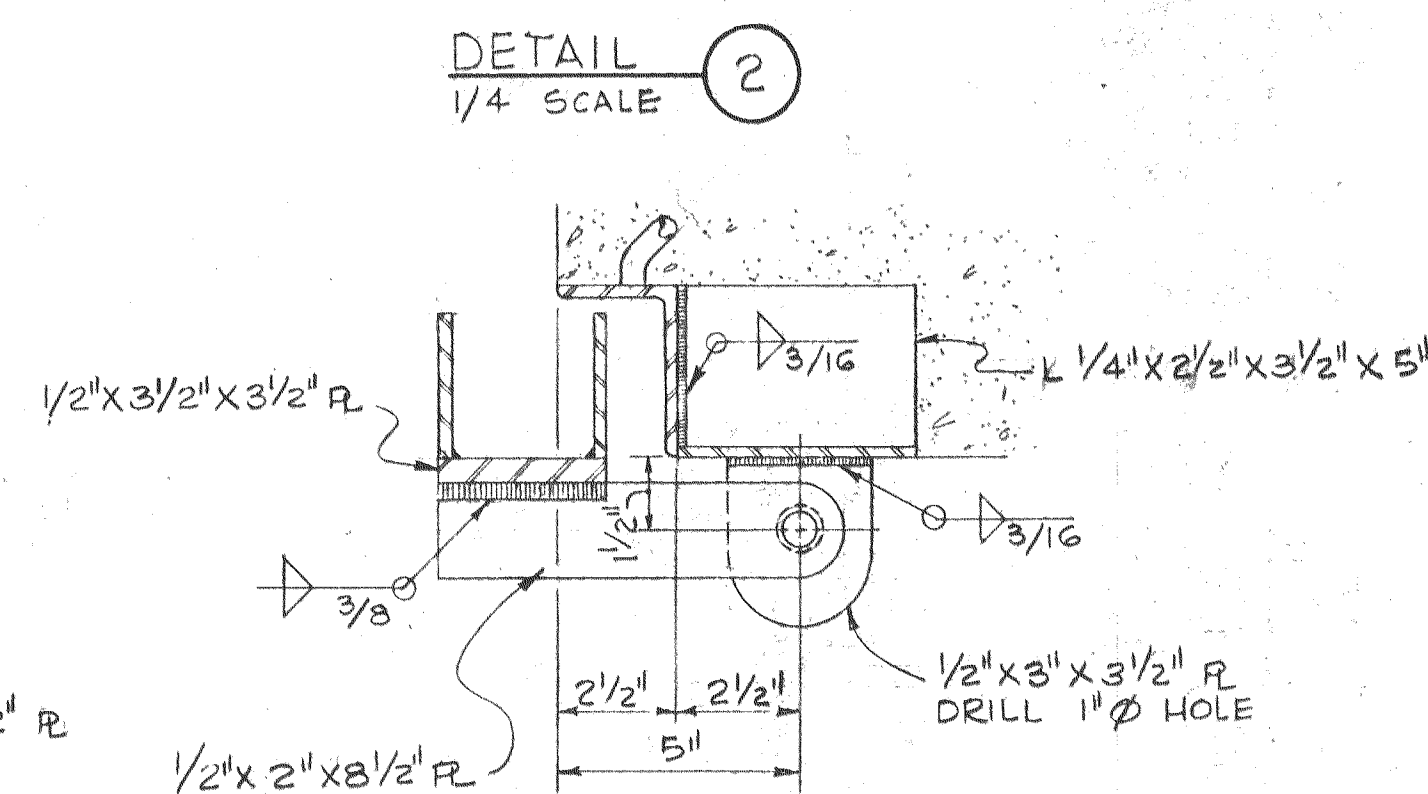
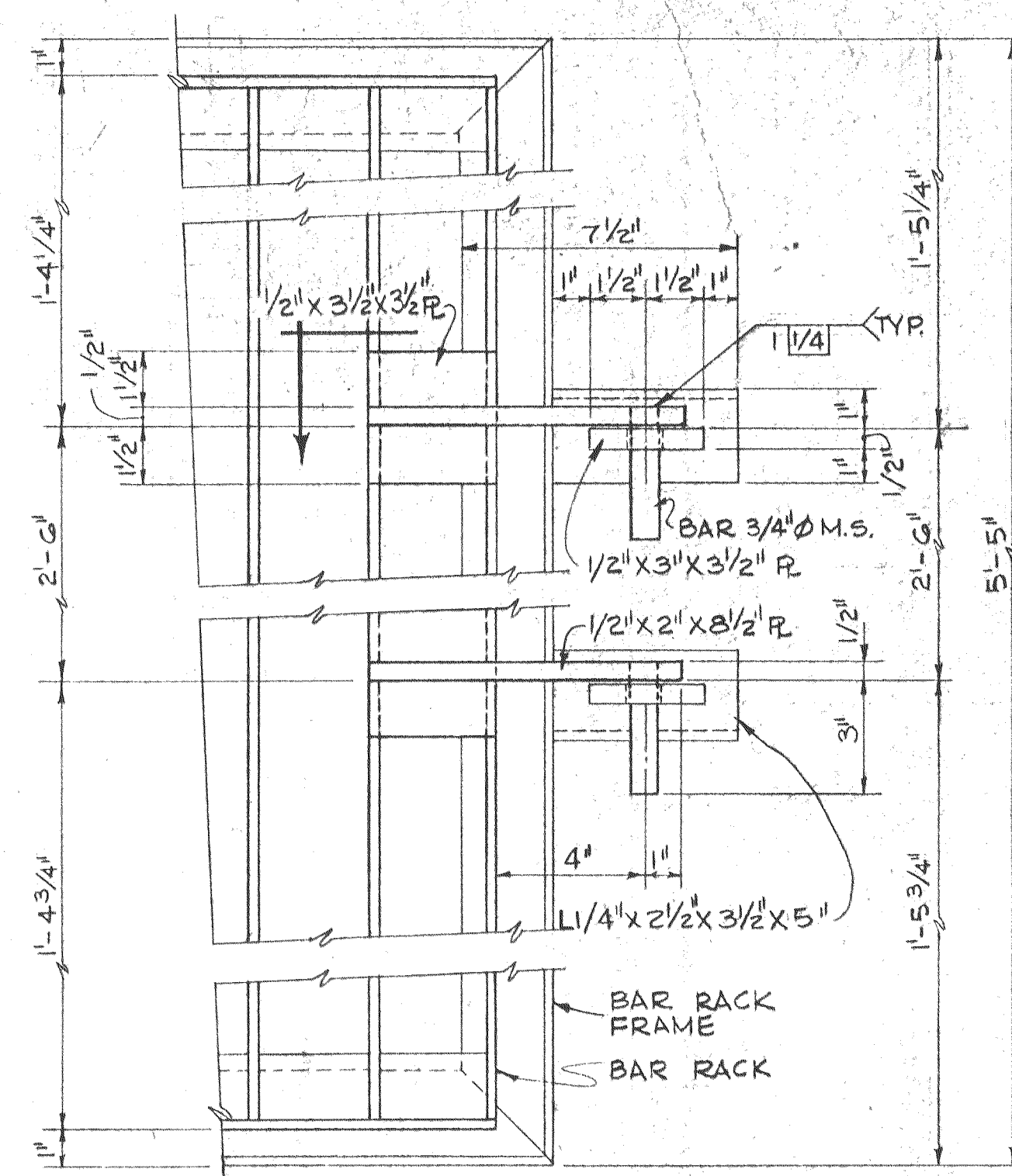
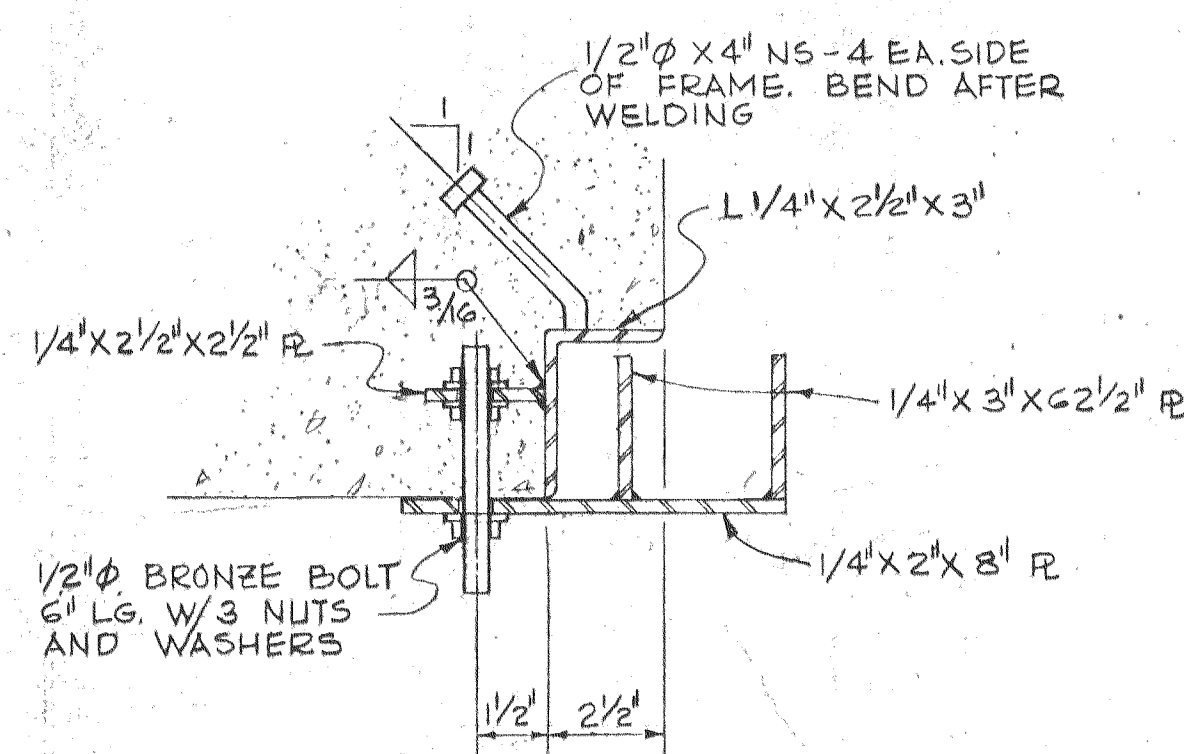
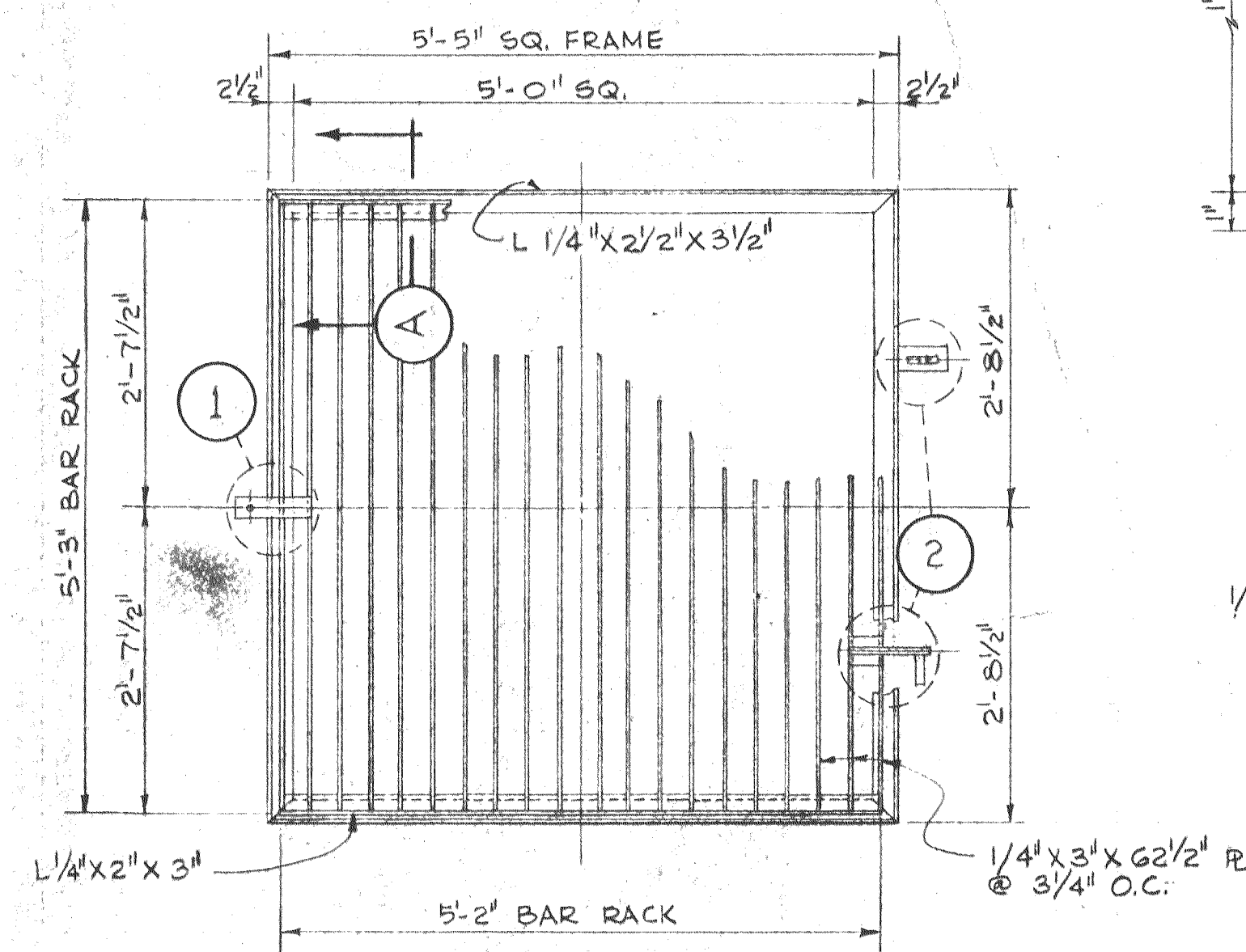
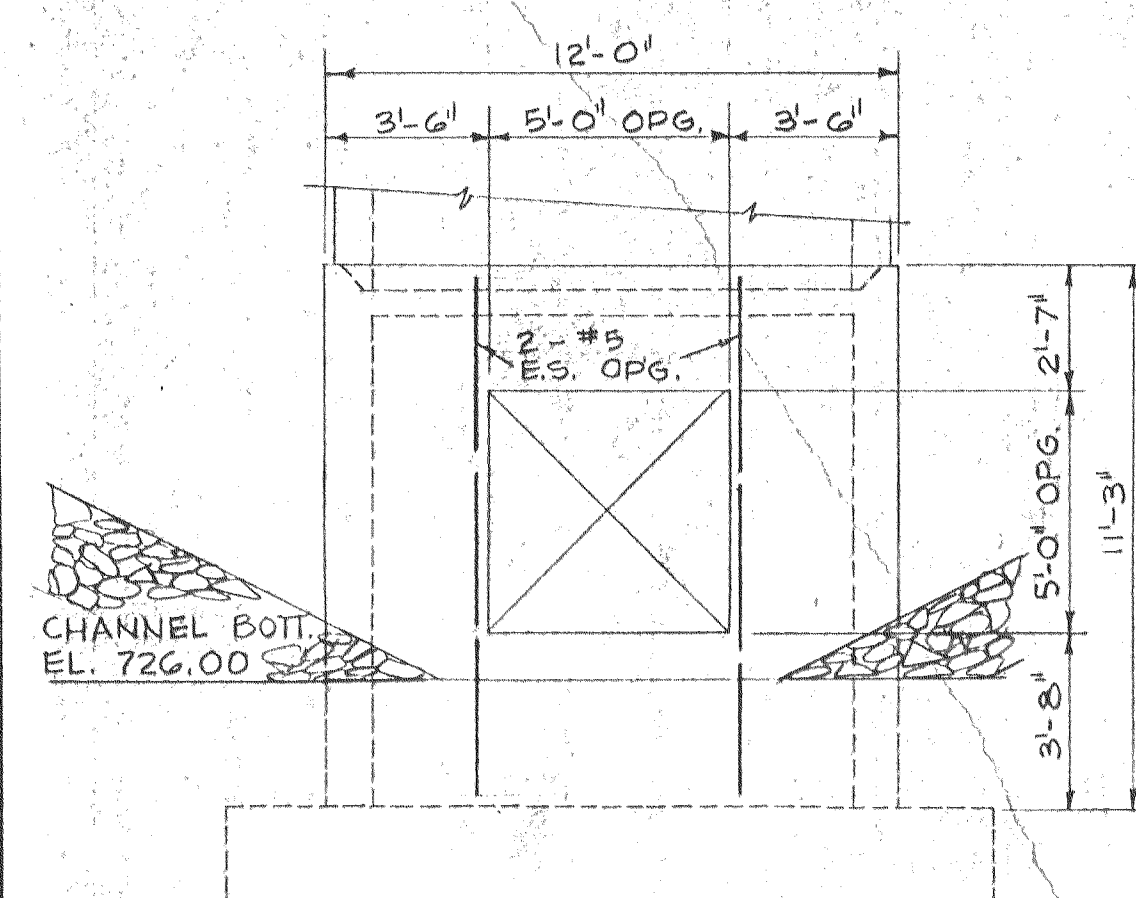


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CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

WATER INTAKE PUMP STATION- MECHANICAL &
STRUCTURAL PLANS, SECTIONS & DETAILS



						DESIGNED	DEA, AAP	APPROVED	<i>DeWitt</i>
						DRAWN	DGF	SCALE	AS SHOWN
1-22-75	1	AS BUILT			JCB			DATE	AUG.-75
DATE	NO	REVISION			BY	CHECKED	HWT	FILE	72-P-830.002.10933



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 PORTLAND SEATTLE BOISE

CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

WATER INTAKE PUMP STATION STRUCTURAL PLANS, SECTIONS & DETAILS

COORDINATES
N 422,017.27
E 2,893,558.59
HI-WAY 145+80.7
PIPE STA. 0+80.7

PLUGGED TEE
90°
-1+00
-2+00
N 9°-12' 9" E

COORDINATES
N 421,873.00
E 2,893,540.90

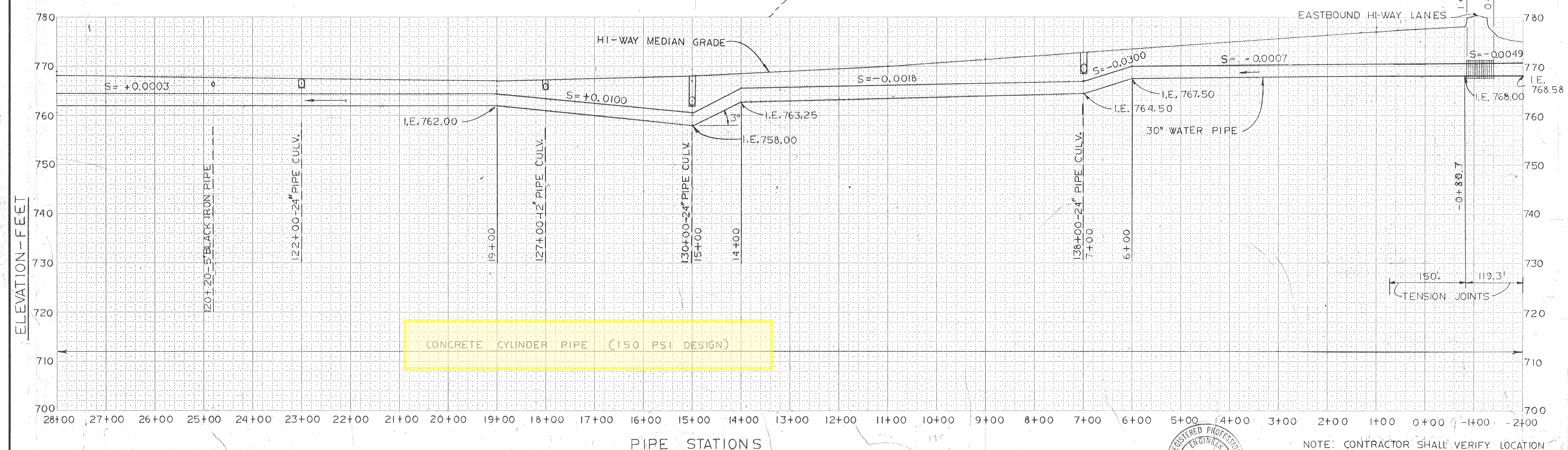
HI-WAY CURVE DATA
1° 18' CV. RT.
Δ 45° 30.2'
L 3500.3'
R 4407.37'
SUPER .03'/FT
TΔ 48° 53'
TS 2133.4'
TL 4020.3'

HI-WAY SPIRAL DATA
260' SP
S = 1° 41.4'
Δ = 0.5'

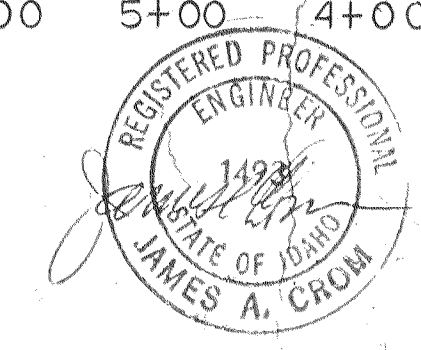
PLAN SCALE: 1" = 100'

CLEAR WATER RIVER
FLOW

BORED AND/OR JACKED SECTION
42" Ø CASING



NOTE: CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL HIGHWAY CULVERTS AND PIPE CROSSINGS PRIOR TO EXCAVATION FOR RAW WATER SUPPLY LINE.

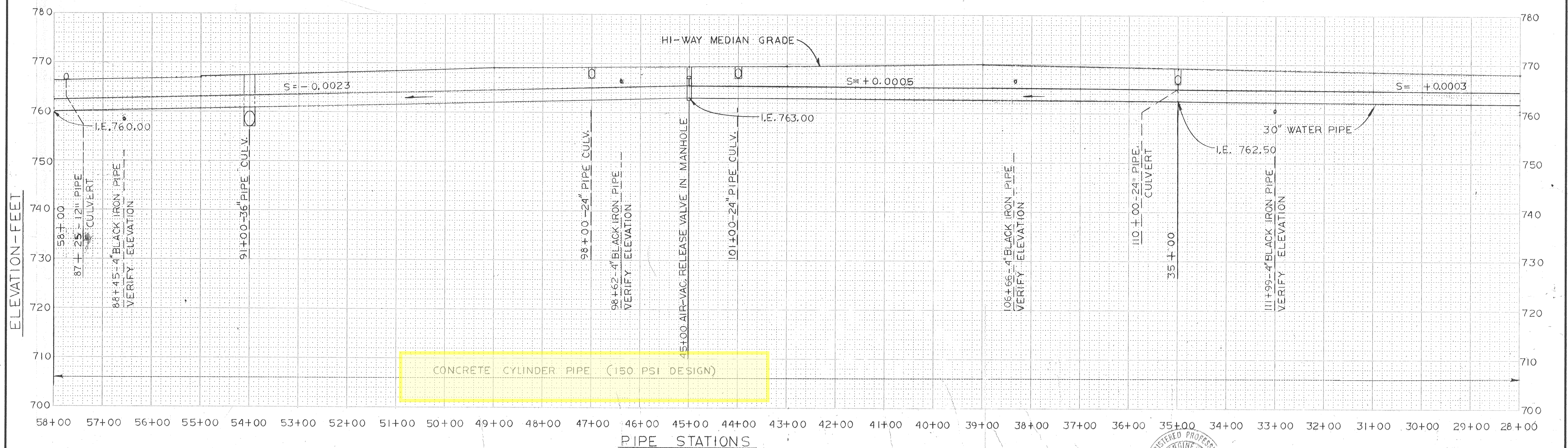
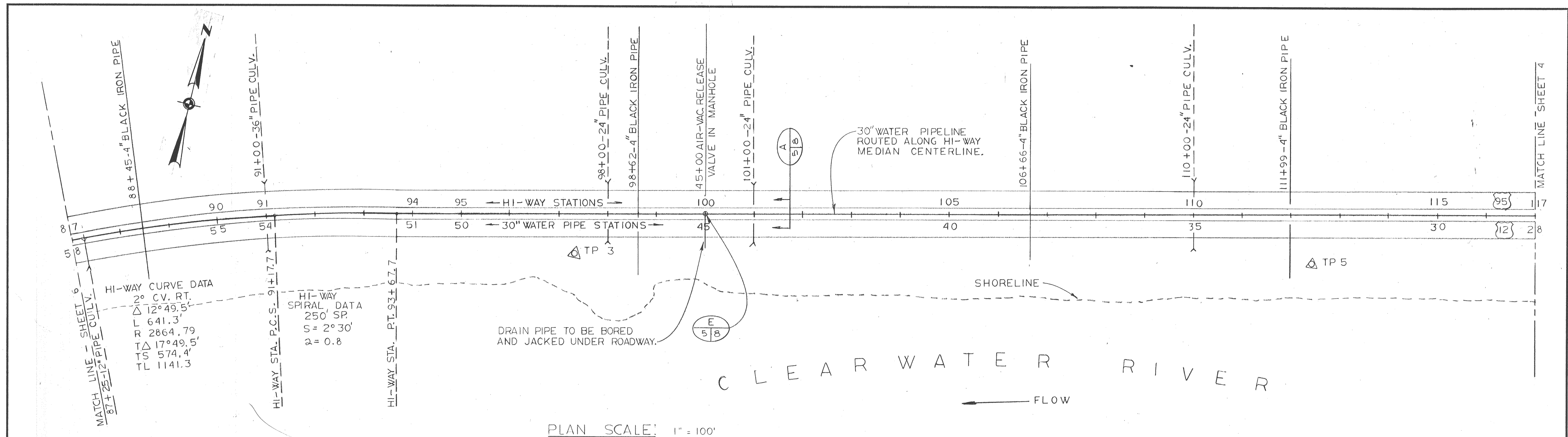


DESIGNED SES	APPROVED <i>James A. Chom</i>
DRAWN HFC	SCALE AS SHOWN DATE AUG-72
CHECKED HWT	FILE 172-P-830.002, 10934
DATE 1-22-75	NO. 1
REVISION	AS BUILT

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CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

RAW WATER SUPPLY LINE
PLAN & PROFILE - STA. 0+00 TO STA. 28+00



PROFILE SCALES: HORIZONTAL 1" = 100'
 VERTICAL 1" = 10'

NOTE: CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL HIGHWAY CULVERTS AND PIPE CROSSINGS PRIOR TO EXCAVATION FOR RAW WATER SUPPLY LINE.

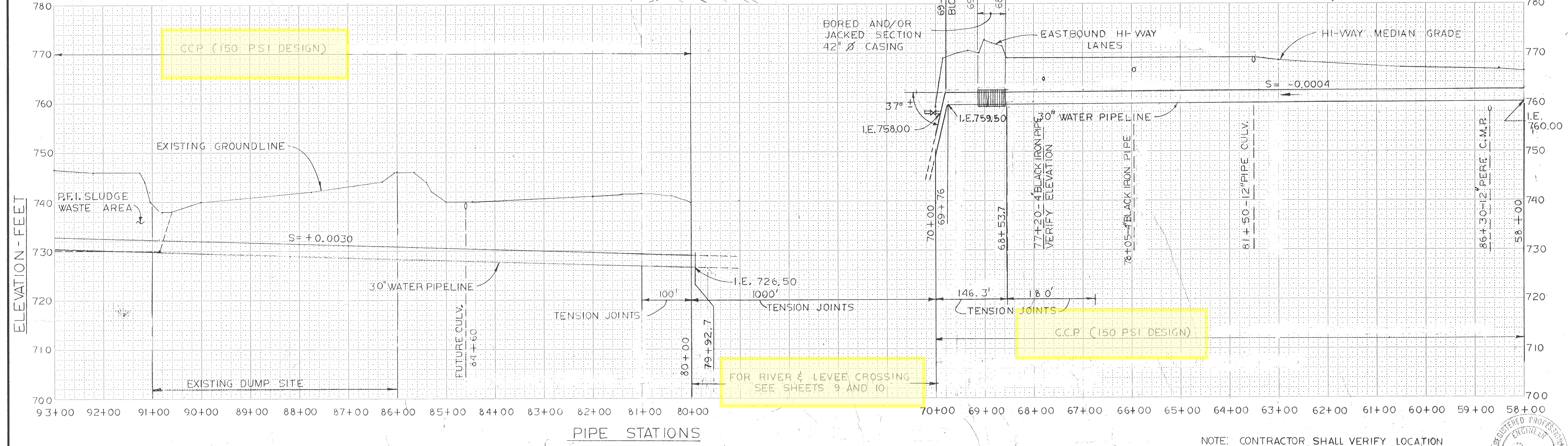
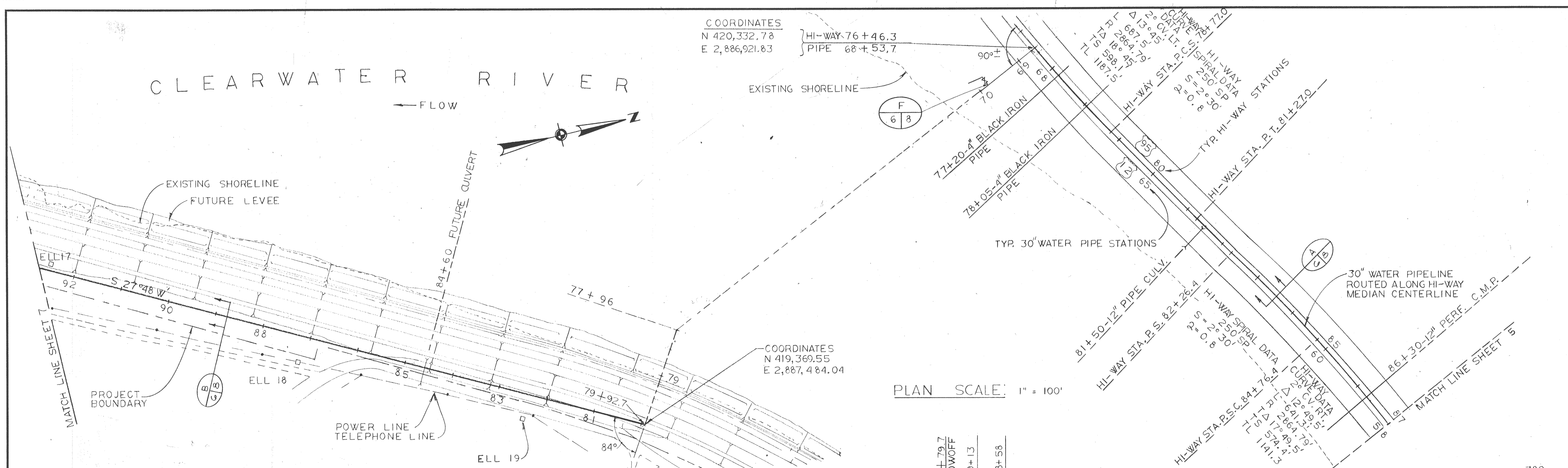
DESIGNED	SES	APPROVED	<i>[Signature]</i>
DRAWN	HFC	SCALE	AS SHOWN
CHECKED	HWT	DATE	AUG. 72
FILE	72-P-830.002, 10935		

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 Engineers/Planners
 PORTLAND SEATTLE BOISE

CITY OF LEWISTON • IDAHO
 WATER INTAKE AND RAW WATER SUPPLY LINE

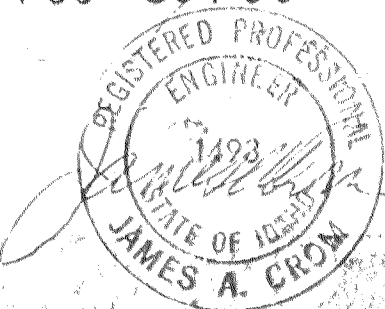
RAW WATER SUPPLY LINE
 PLAN & PROFILE - STA. 28+00 TO STA. 58+00

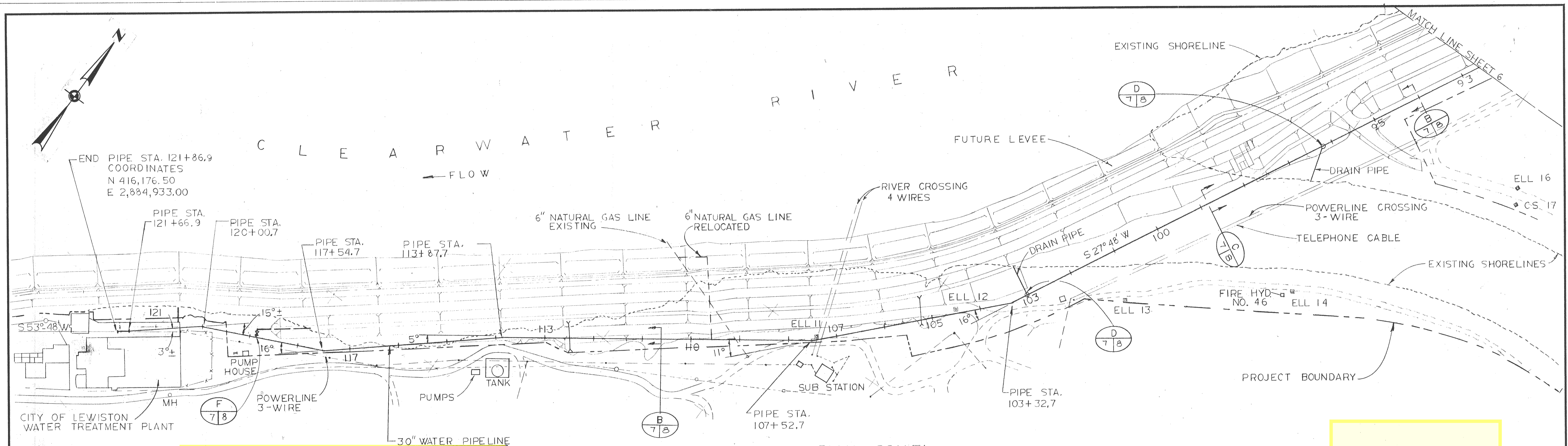
5
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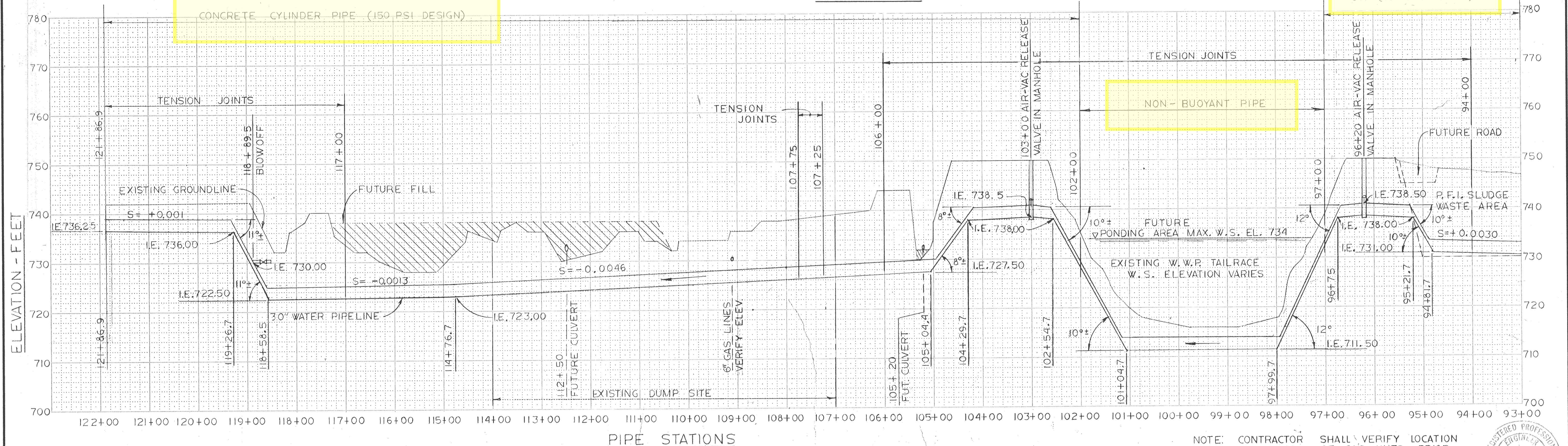
NOTE: CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL HIGHWAY CULVERTS AND PIPE CROSSINGS PRIOR TO EXCAVATION FOR RAW WATER SUPPLY LINE.

DESIGNED SES		APPROVED <i>[Signature]</i>		DRAWN HFC		SCALE AS SHOWN DATE AUG.-72		FILE 72-P-830,002, 1093G		CITY OF LEWISTON • IDAHO		RAW WATER SUPPLY LINE - PLAN & PROFILE		6	
I-22-75		AS BUILT		JCB		CHECKED HWT		PORTLAND		SEATTLE		BOISE		STA. 58+00 TO STA. 69+60, STA. 81+00 TO STA. 93+00	
DATE		NO.		REVISION		BY		15		04-72-8-2					



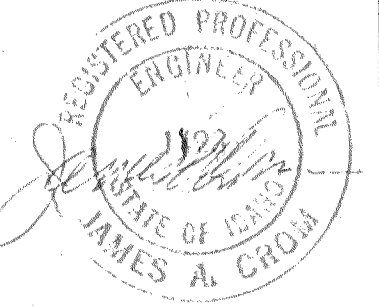


PLAN SCALE: 1" = 100'



PROFILE SCALE S: HORIZONTAL 1" = 100'
VERTICAL 1" = 10'

NOTE: CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF GAS LINES PRIOR TO EXCAVATION FOR RAW WATER SUPPLY LINE.



DESIGNED	SES	APPROVED	<i>[Signature]</i>
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CHECKED	HWT	FILE	72-P-830.002, 10937
DATE	NO.	REVISION	
1-22-75	1	AS BUILT	



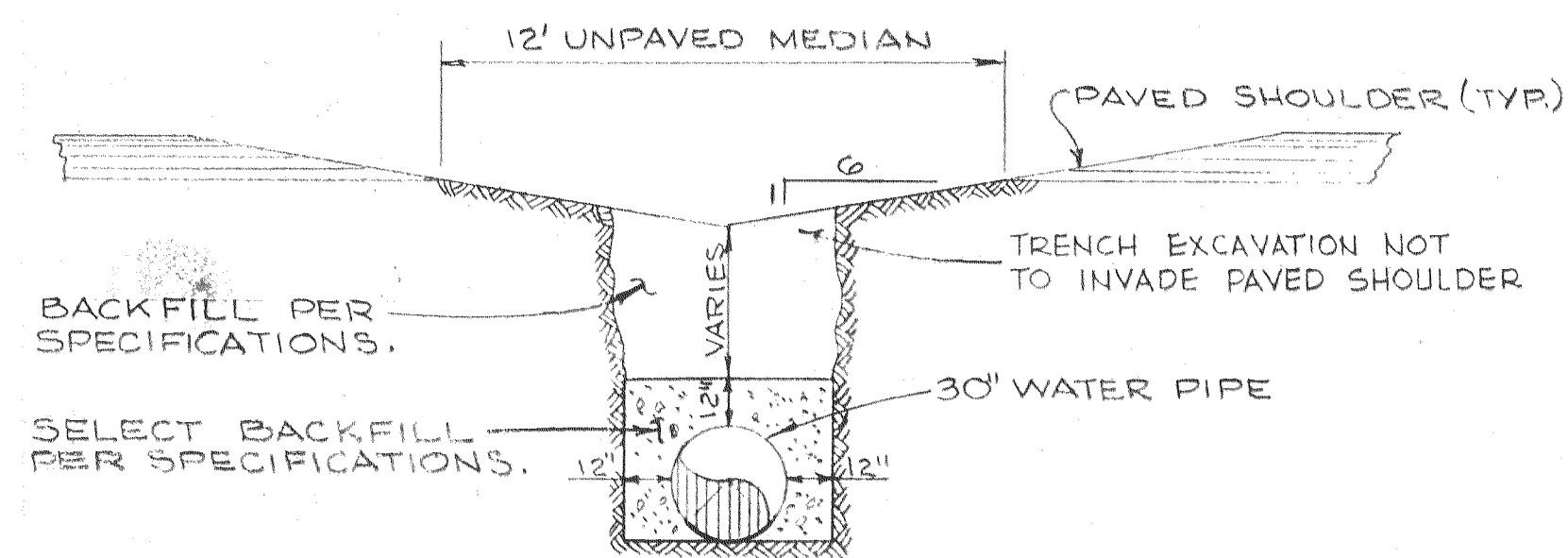
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PORTLAND SEATTLE BOISE

CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

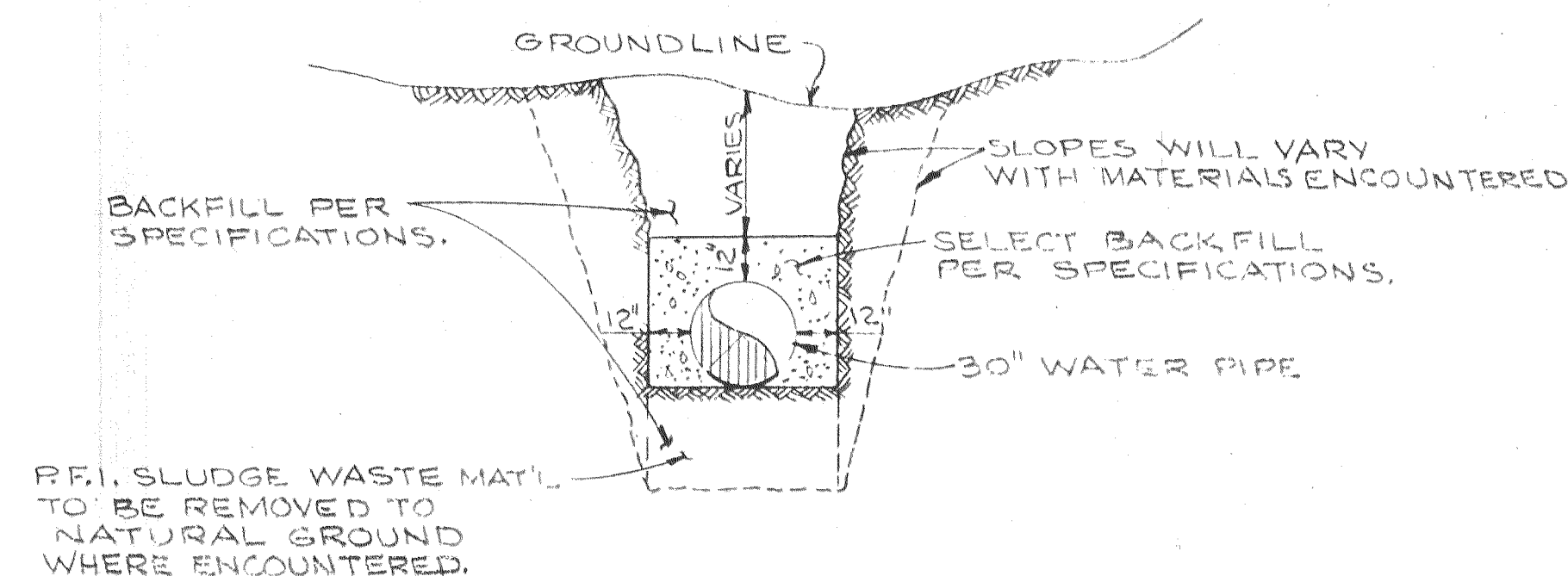
RAW WATER SUPPLY LINE
PLAN & PROFILE - STA. 93+00 TO STA. 121+86.9

7
15

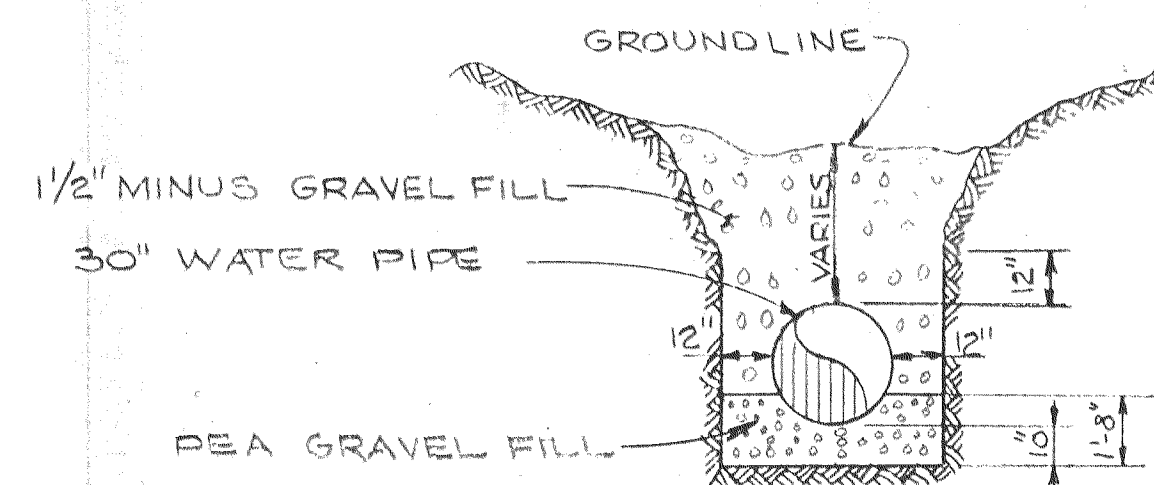
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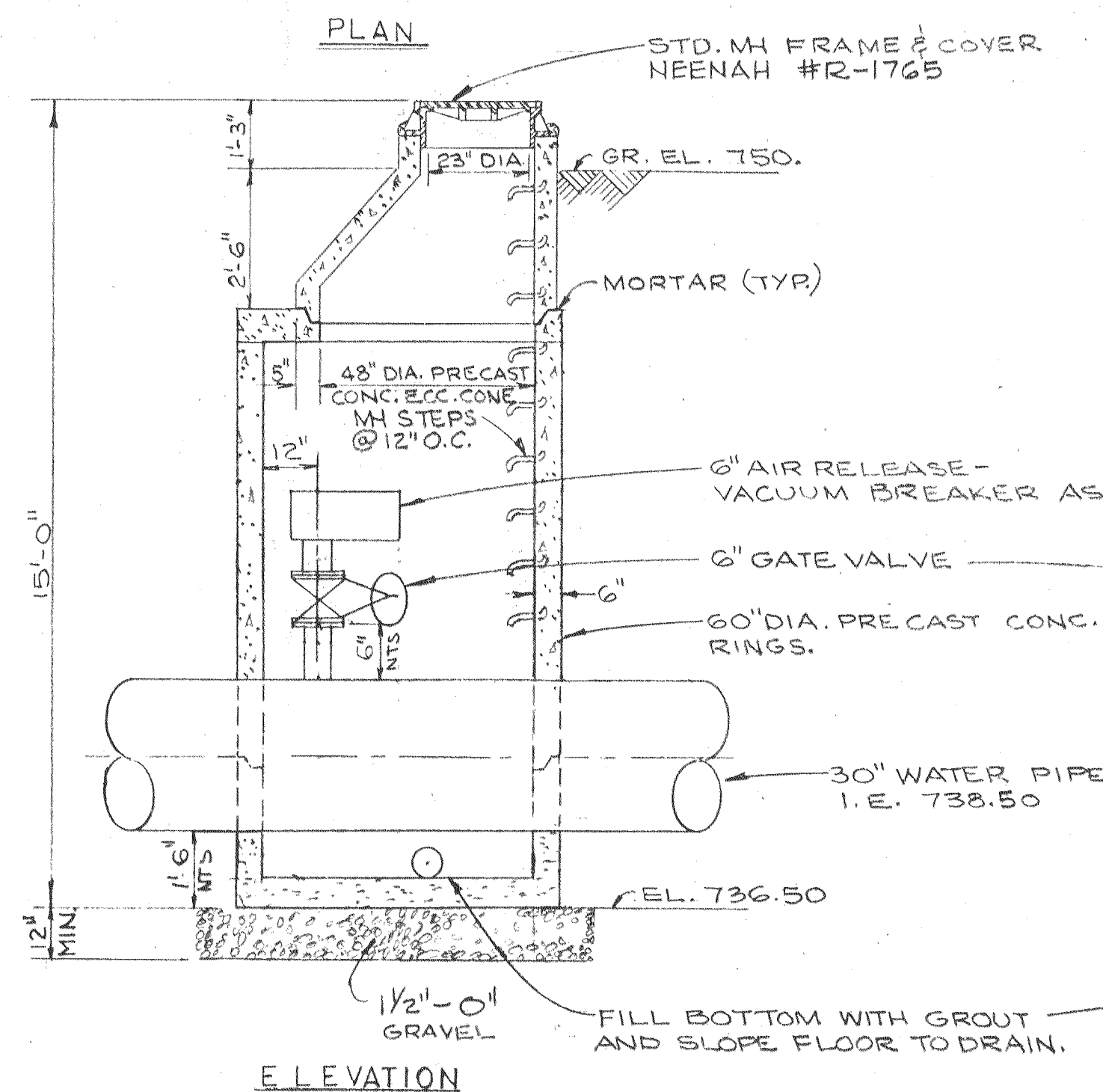
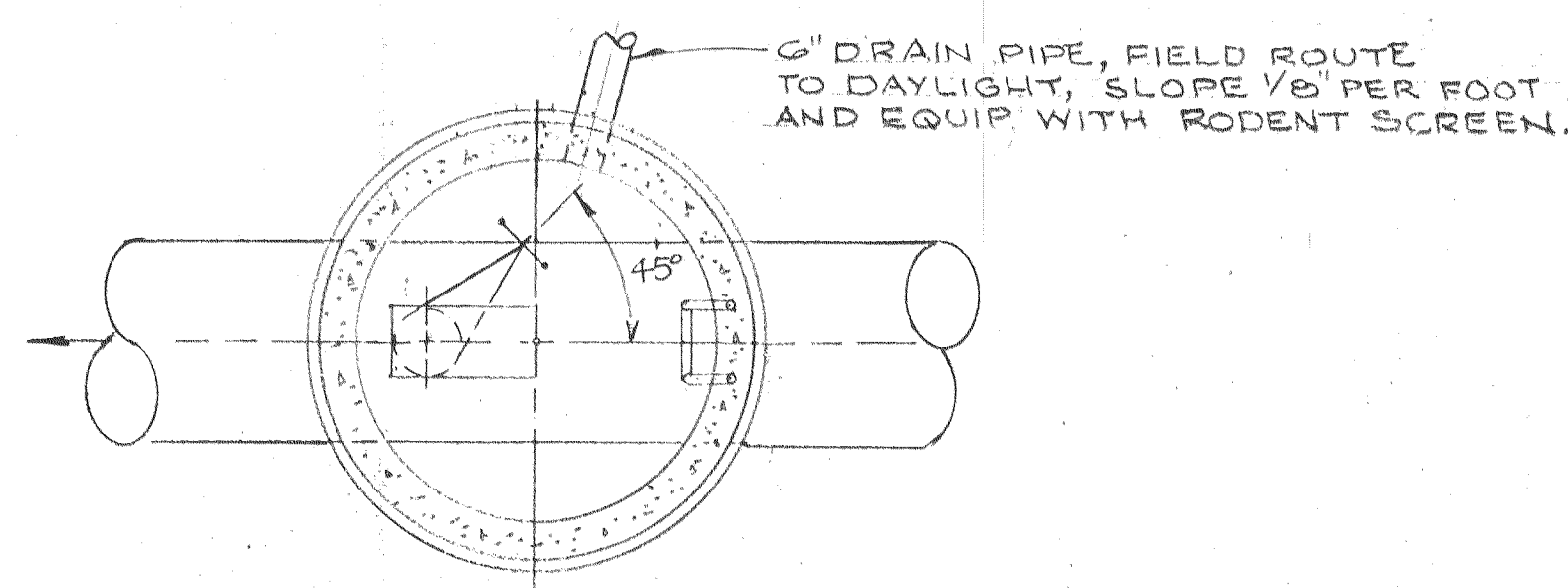
TYP. HI-WAY PIPE TRENCH SECTION A
SCALE: 1/4" = 1'-0"



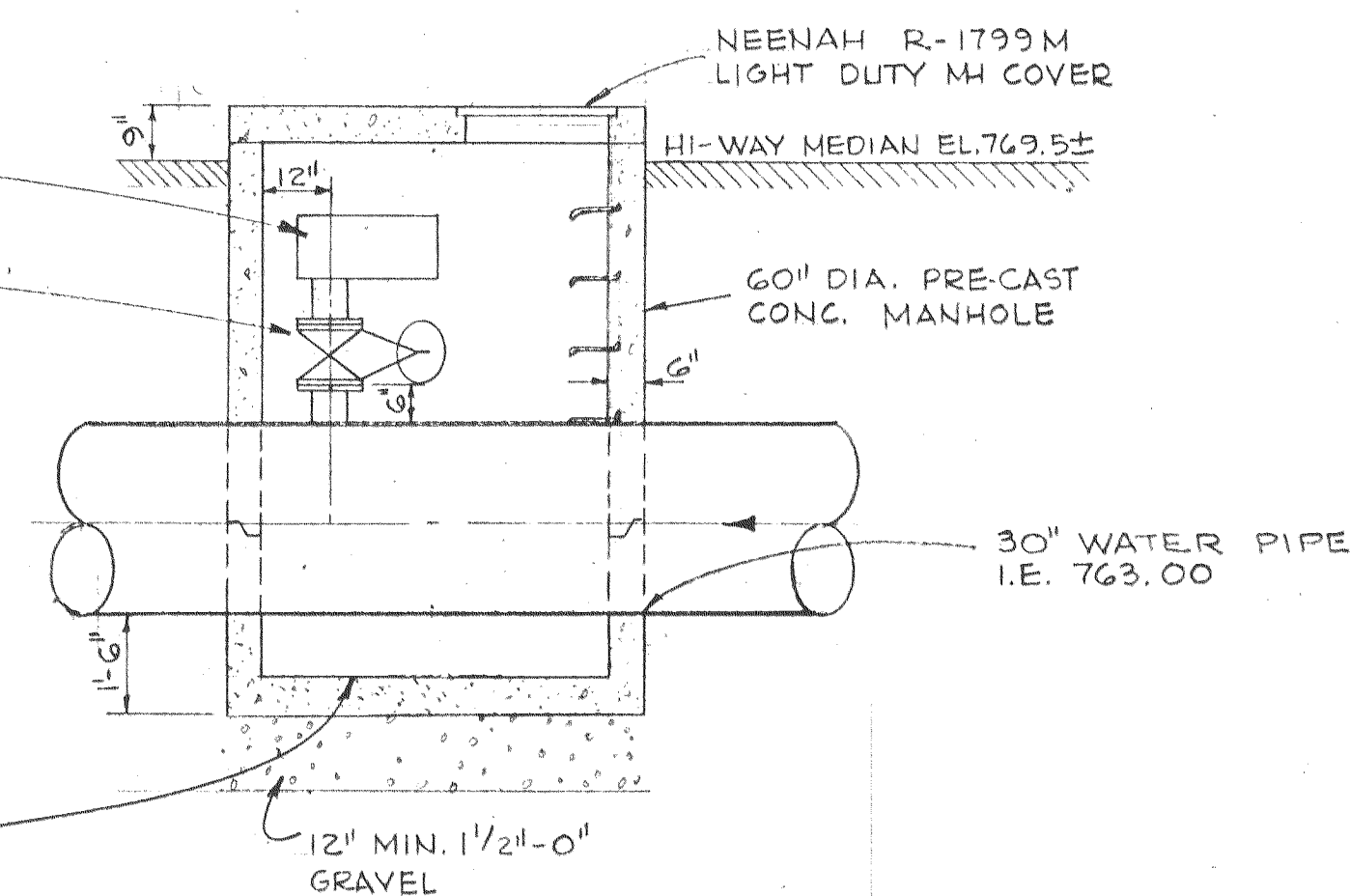
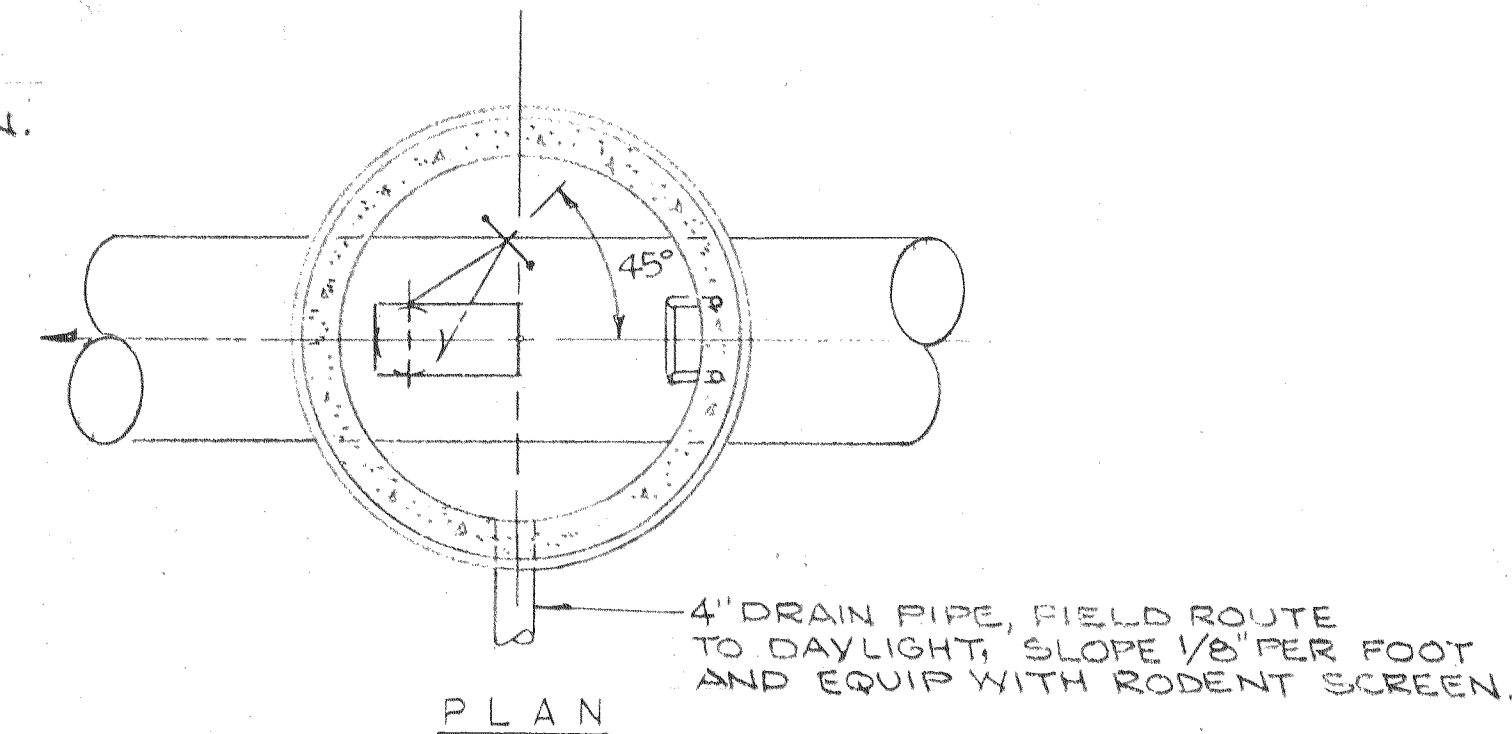
TYPICAL PIPE TRENCH SECTION B
SCALE: 1/4" = 1'-0"



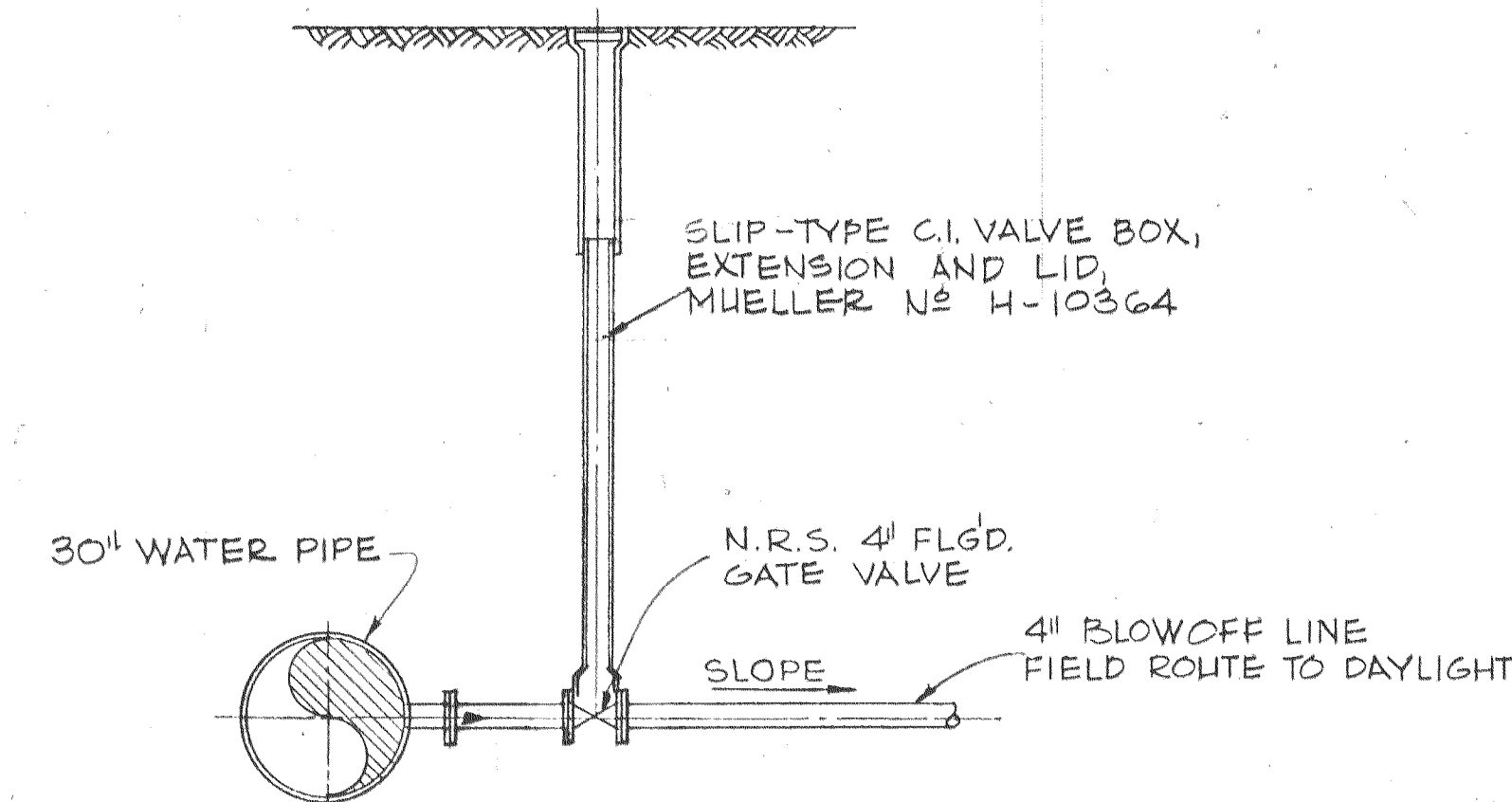
TYP. TAILRACE CROSSING PIPE TRENCH SECTION C
SCALE: 1/4" = 1'-0"



TYP. MANHOLE DETAIL D
SCALE: 3/8" = 1'-0"



HI-WAY MANHOLE DETAIL E
SCALE: 3/8" = 1'-0"



TYPICAL BLOWOFF DETAIL F
SCALE: 3/8" = 1'-0"

DESIGNED	SES	APPROVED	COMMISSION
DRAWN	HFC	SCALE AS SHOWN	DATE AUG-72
CHECKED	HWT	FILE	72-P-830.002, 10338
DATE	1	AS BUILT	JCB
NO.		REVISION	BY



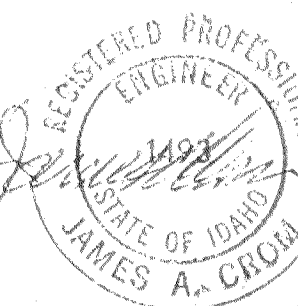
Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND SEATTLE BOISE

CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

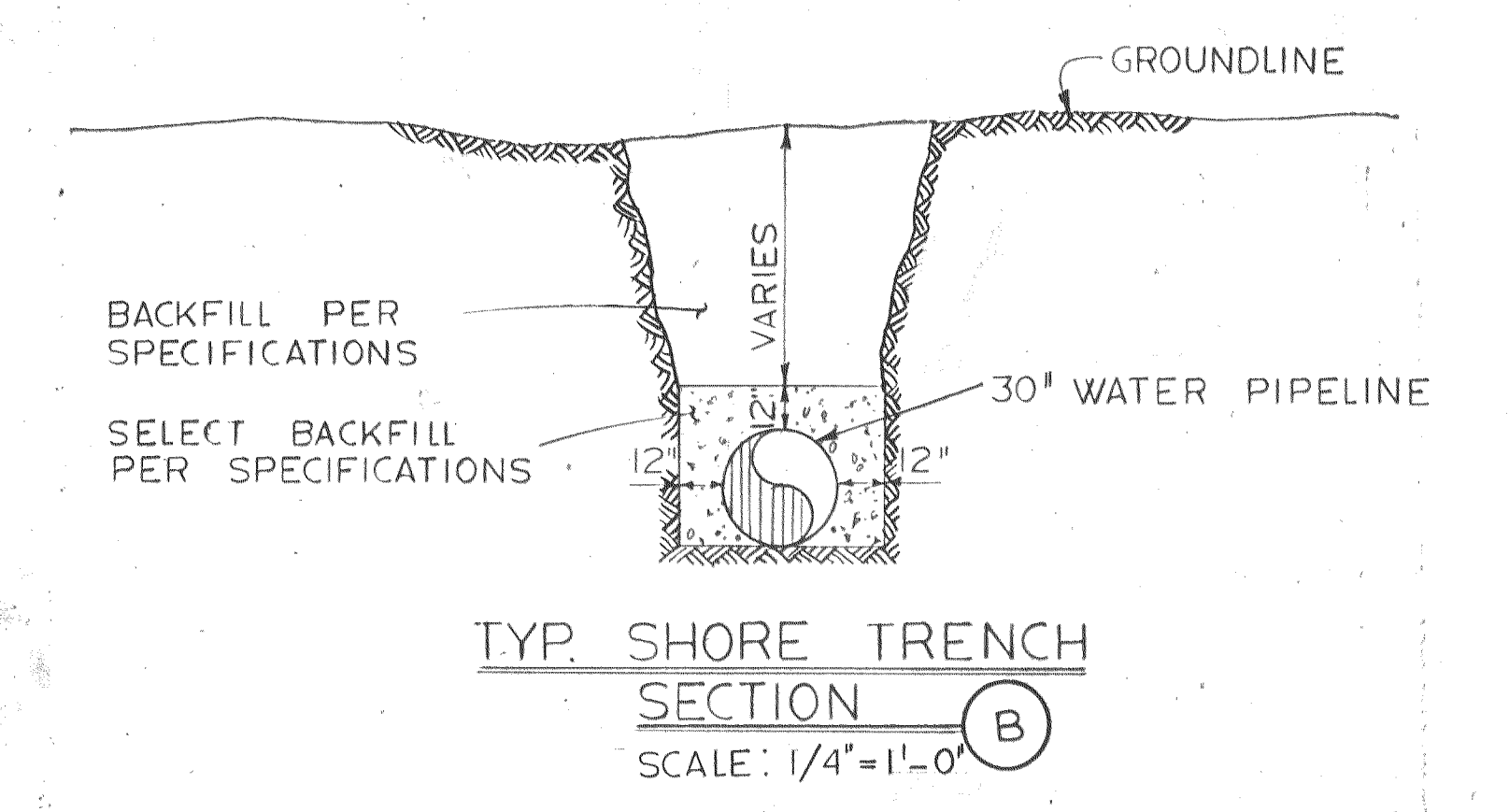
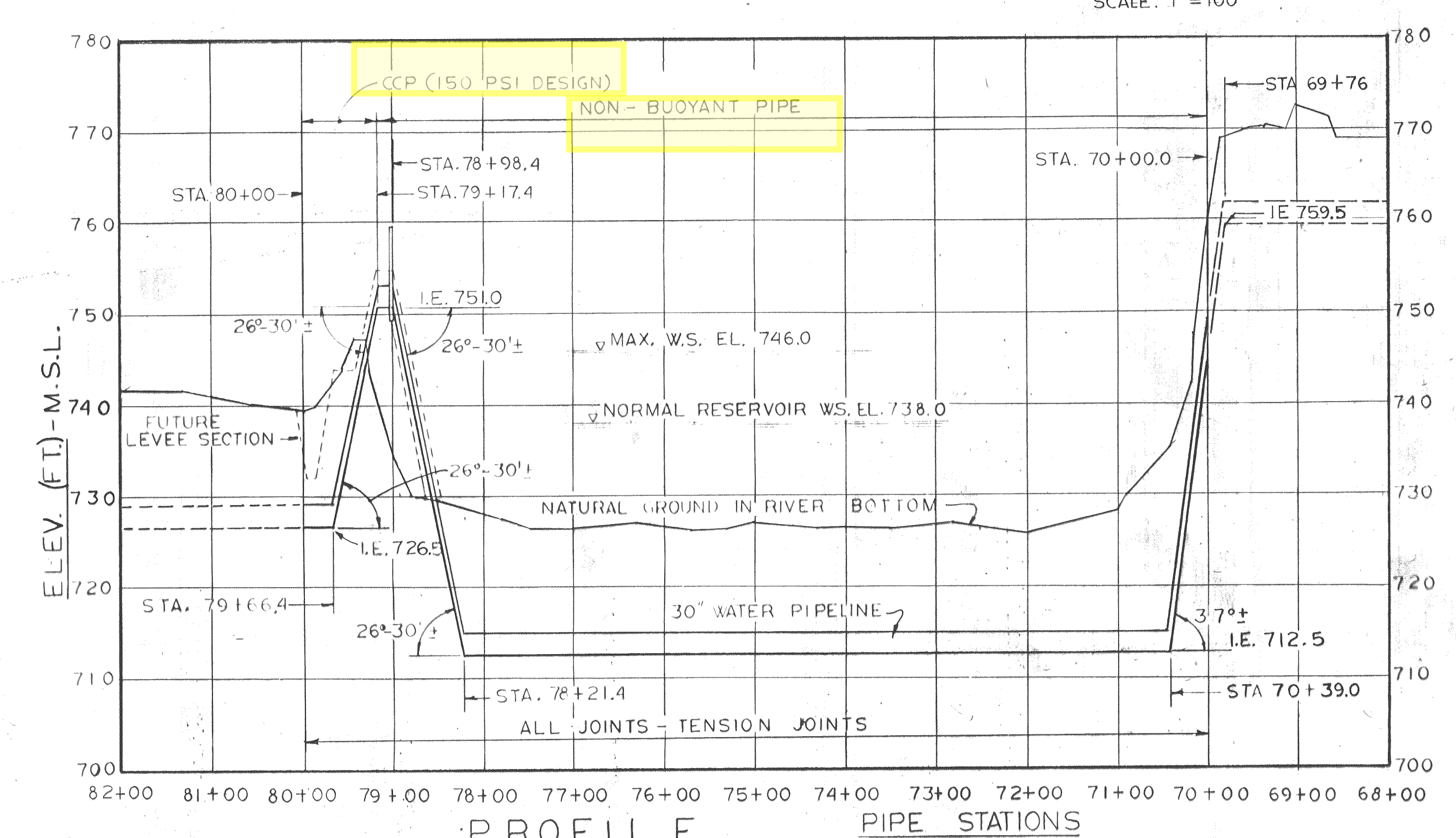
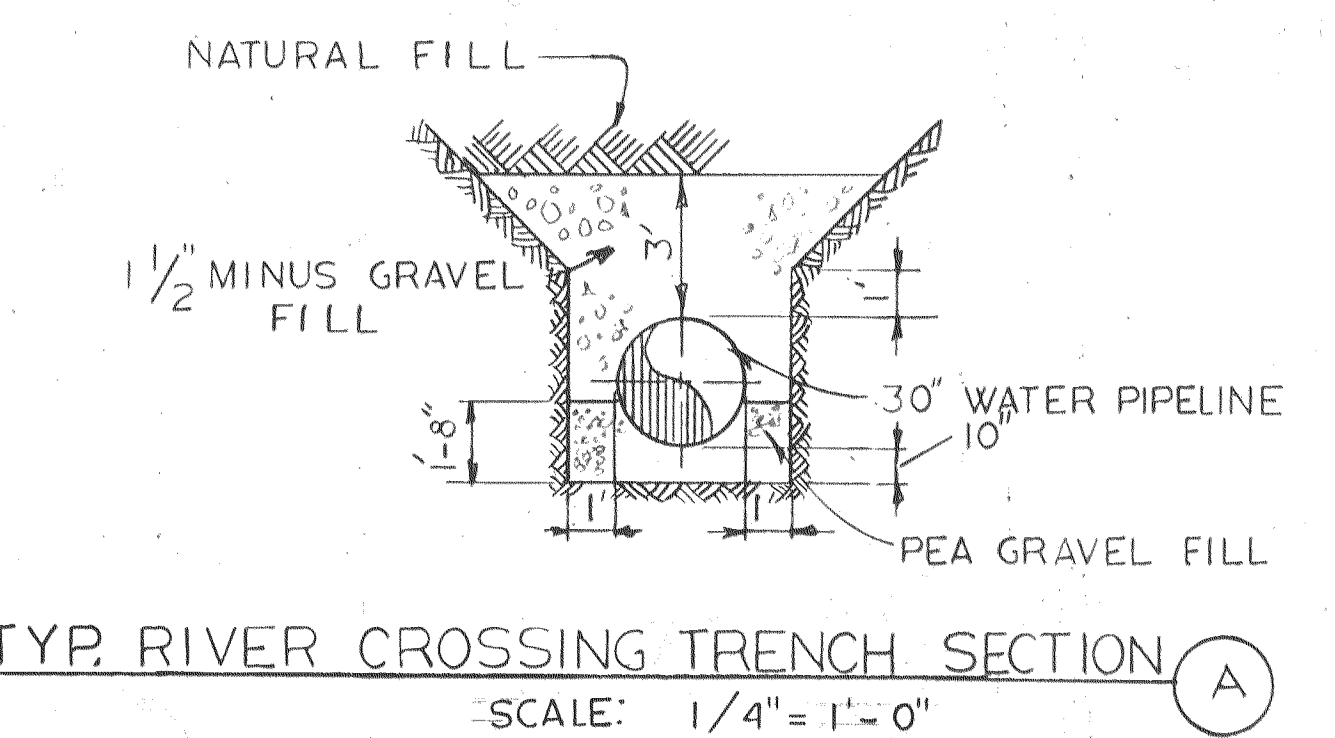
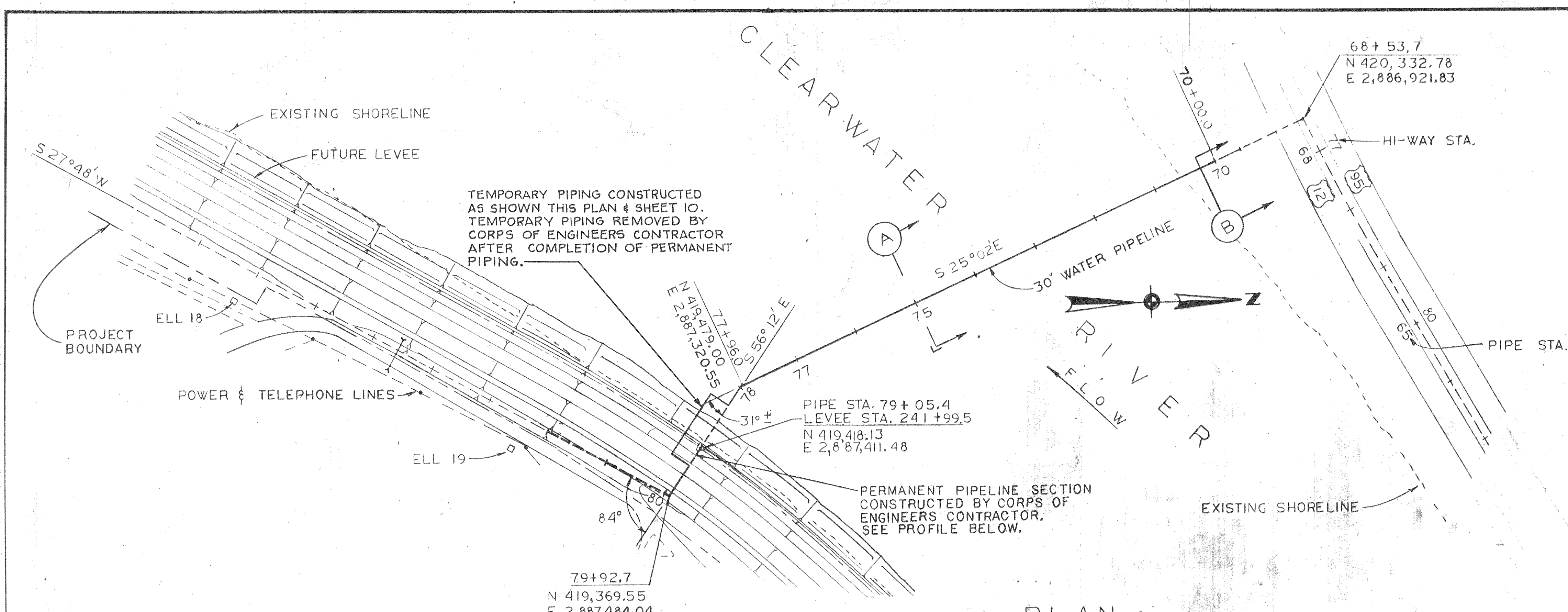
RAW WATER SUPPLY LINE
DETAILS

8

15



04-72-8-2



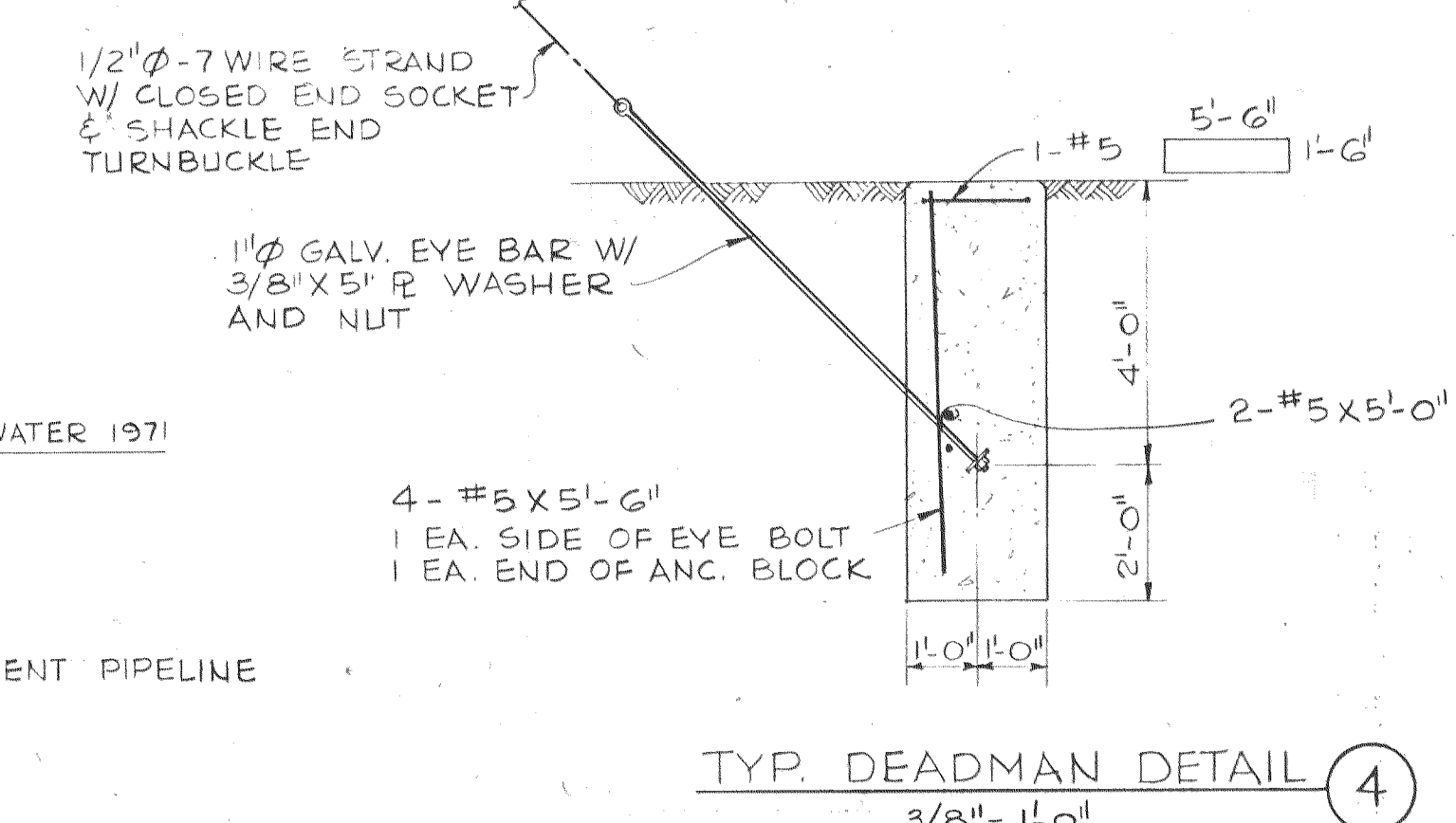
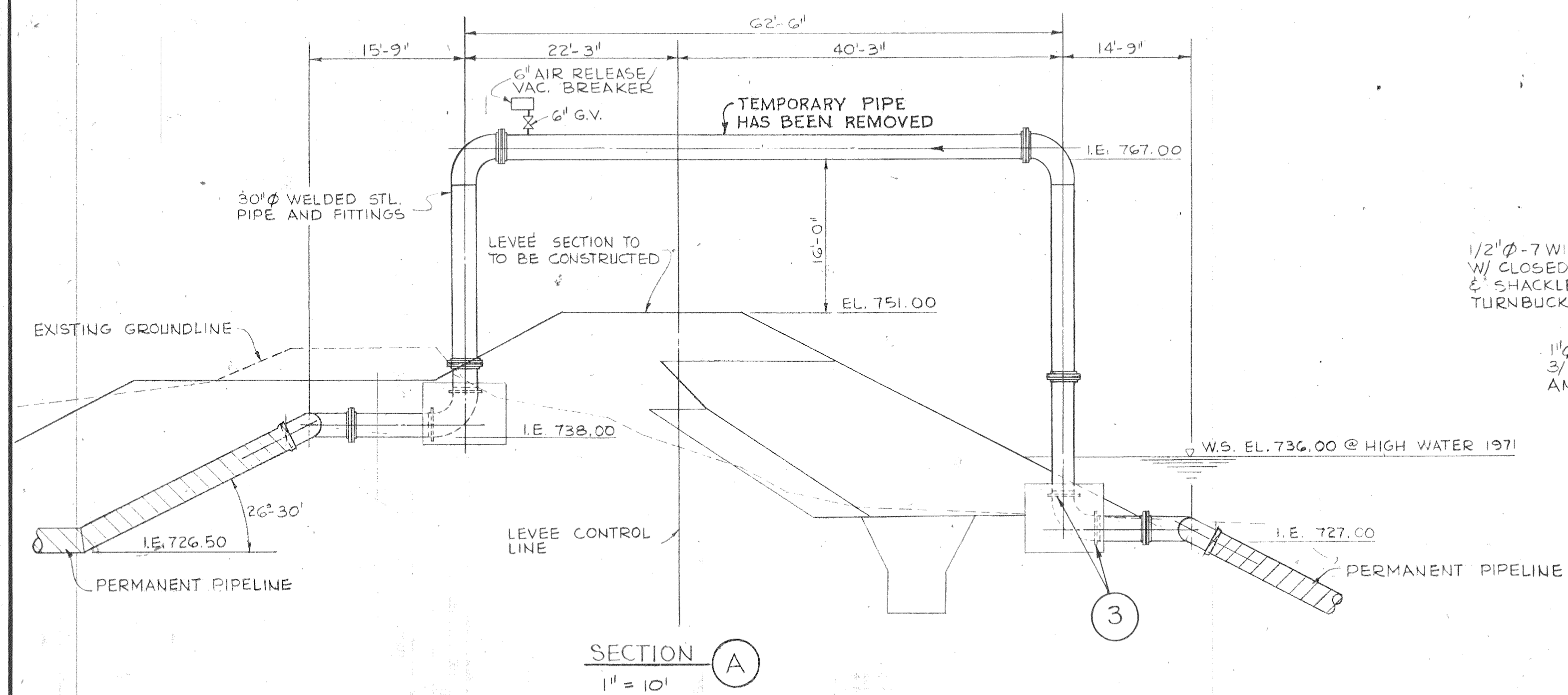
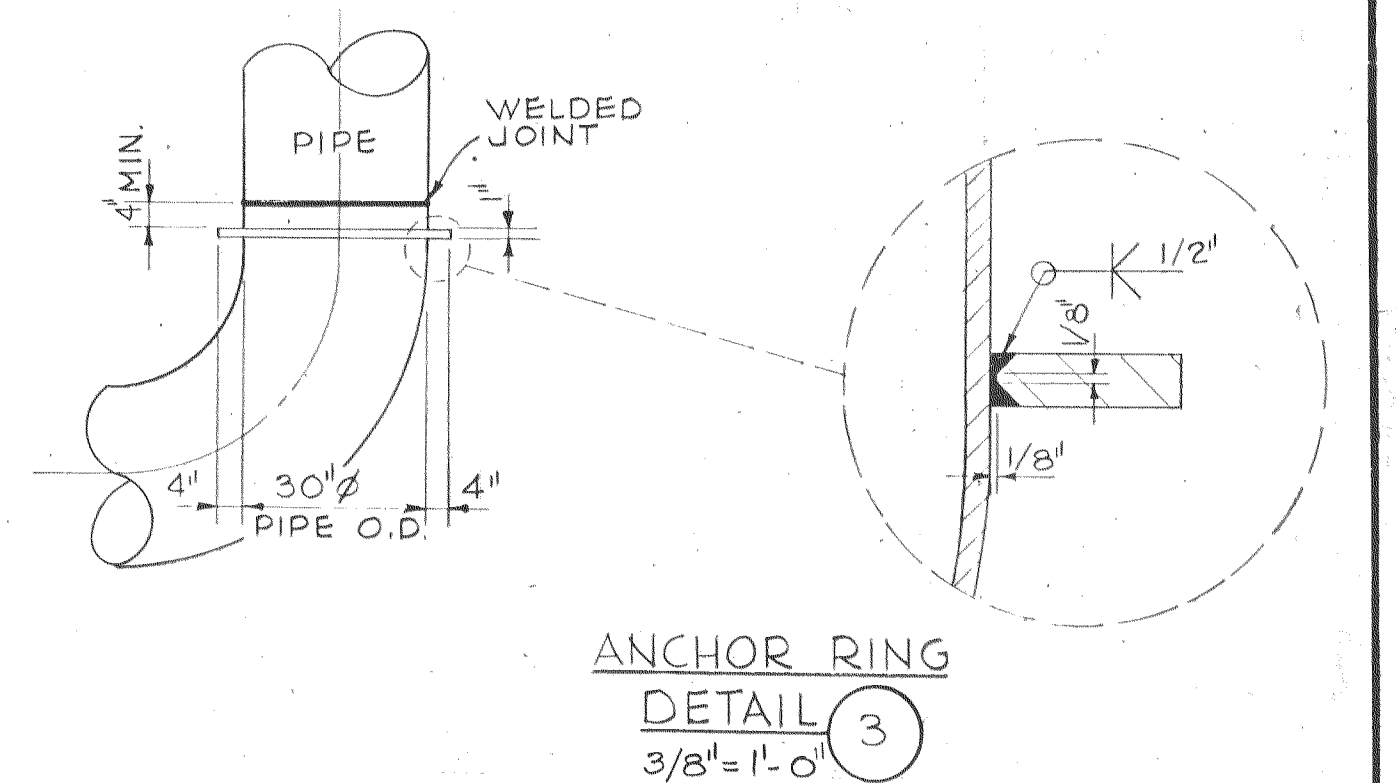
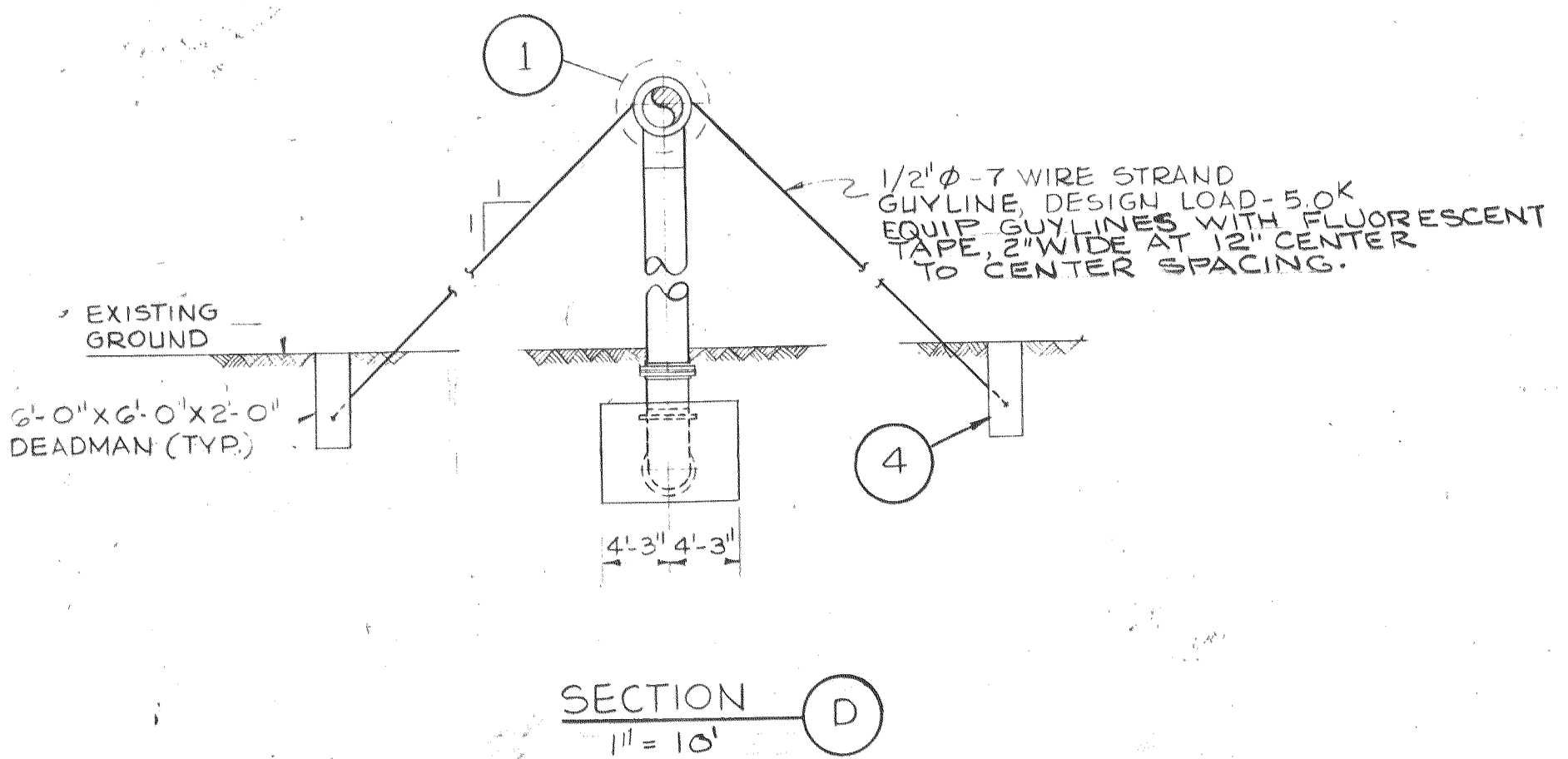
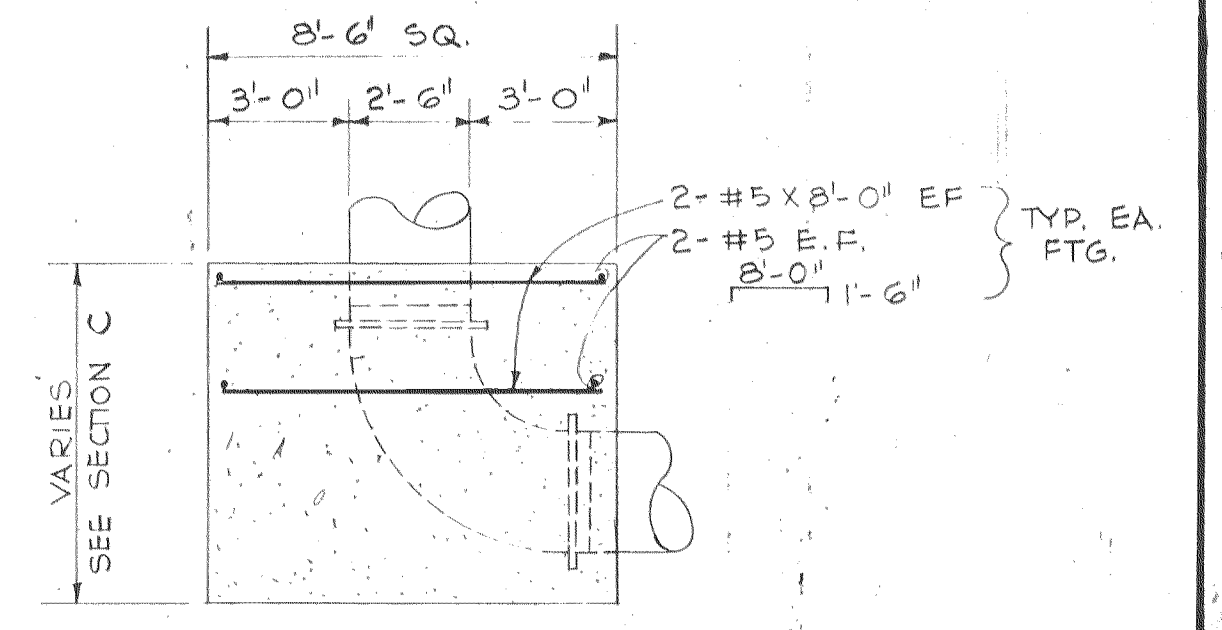
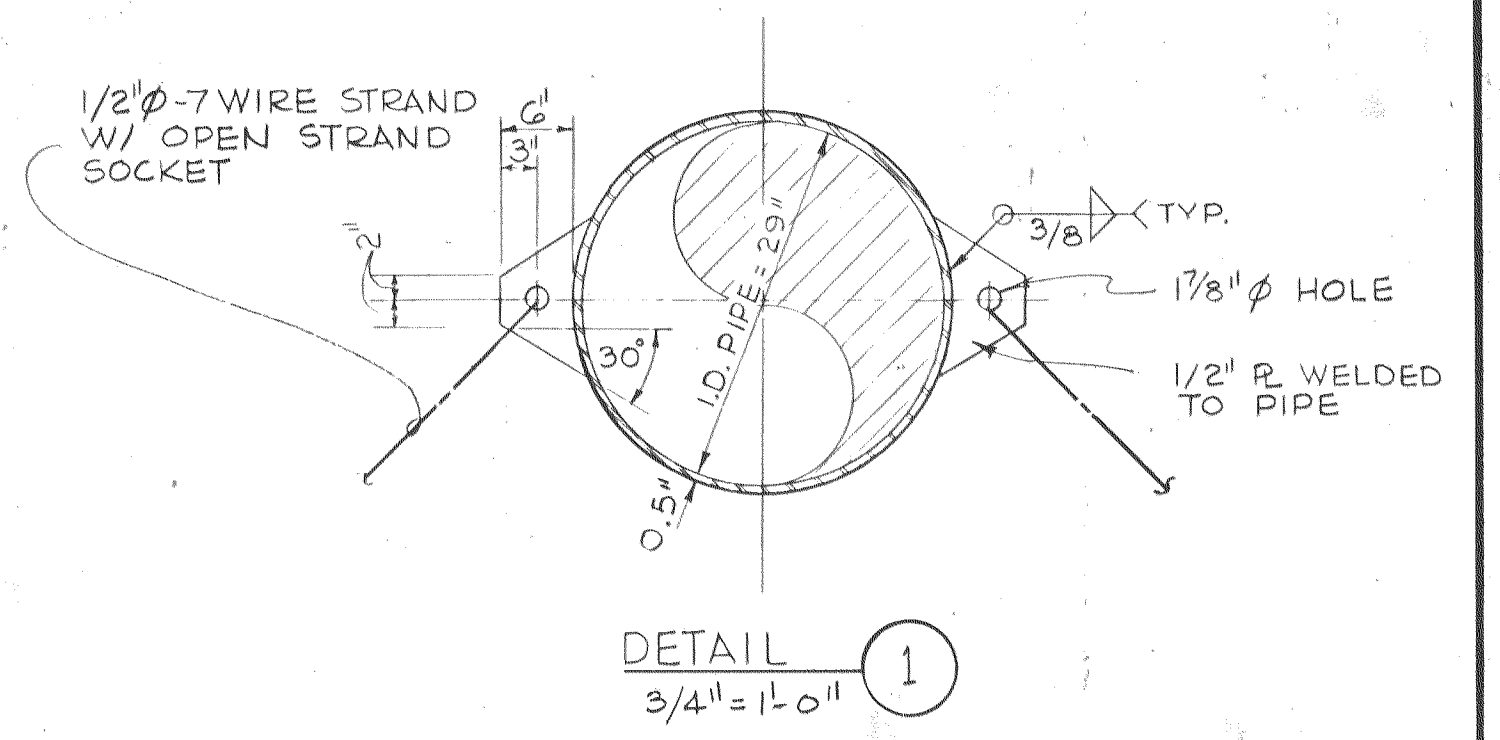
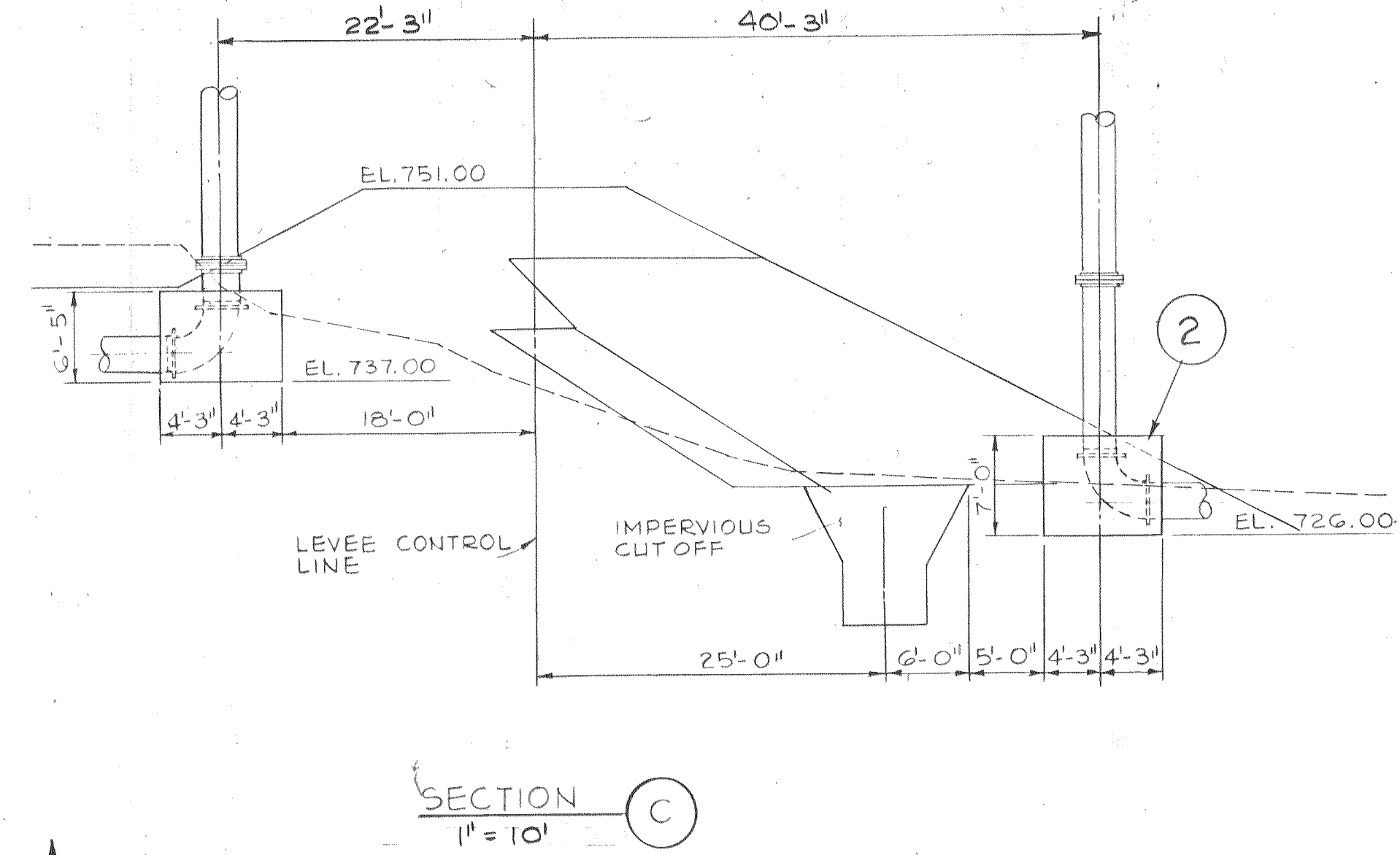
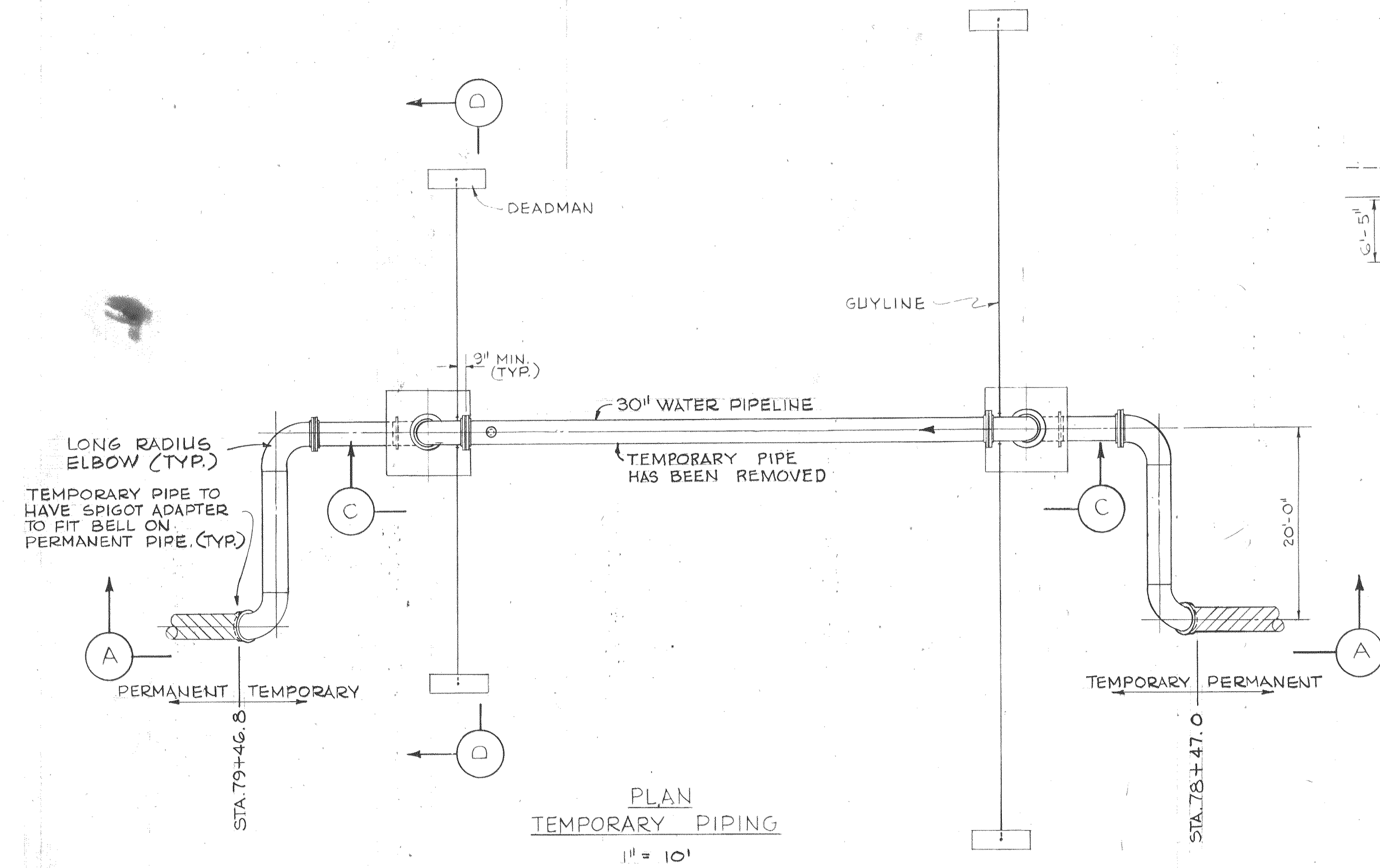
DESIGNED	SES	APPROVED	<i>James A. Cron</i>
DRAWN	HFC	SCALE	AS SHOWN
DATE	1-22-75	NO.	1
REVISION	AS BUILT	BY	JCB
CHECKED	HWT	FILE	72-P-830,002, 10939

Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND SEATTLE BOISE

CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

RAW WATER SUPPLY LINE-RIVER & LEVEE CROSSING
PLAN, PROFILE AND DETAILS
9
15
04-72-8-2

REGISTERED PROFESSIONAL ENGINEER
JAMES A. CRON
STATE OF IDAHO



STRUCTURAL NOTES:

- CONCRETE TO BE 3000 PSI COMP. IN 28 DAYS.
 - CONCRETE TO BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318.
- STEEL
- REINFORCING STEEL TO CONFORM TO ASTM A615, GRADE 40. DETAIL AND PLACE PER ACI 318 AND CODE 318.
 - PRELOAD GUYS TO AN INITIAL TENSION OF 2000# ±, NO UNBALANCE PERMITTED.

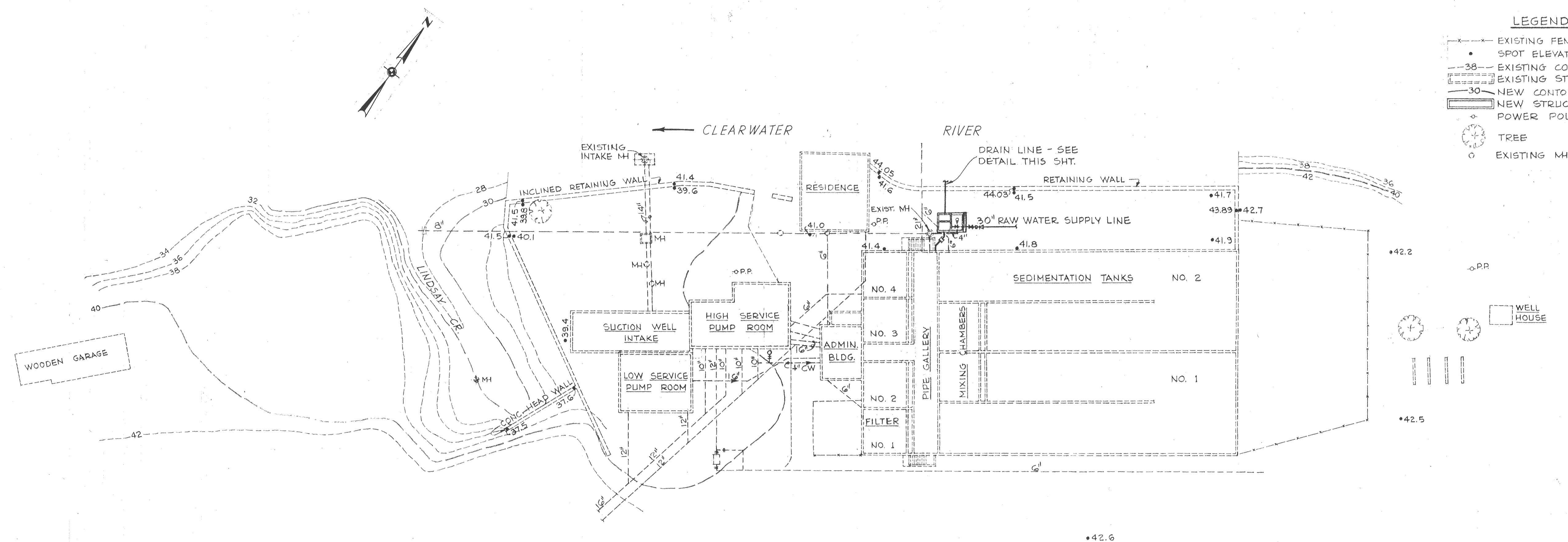
DESIGNED	SES, AAP	APPROVED	<i>James A. Cron</i>
DRAWN	HFC	SCALE	AS SHOWN
CHECKED	HWT	DATE	AUG. 72
FILE	72-P-830.002, 10940		

Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND SEATTLE BOISE

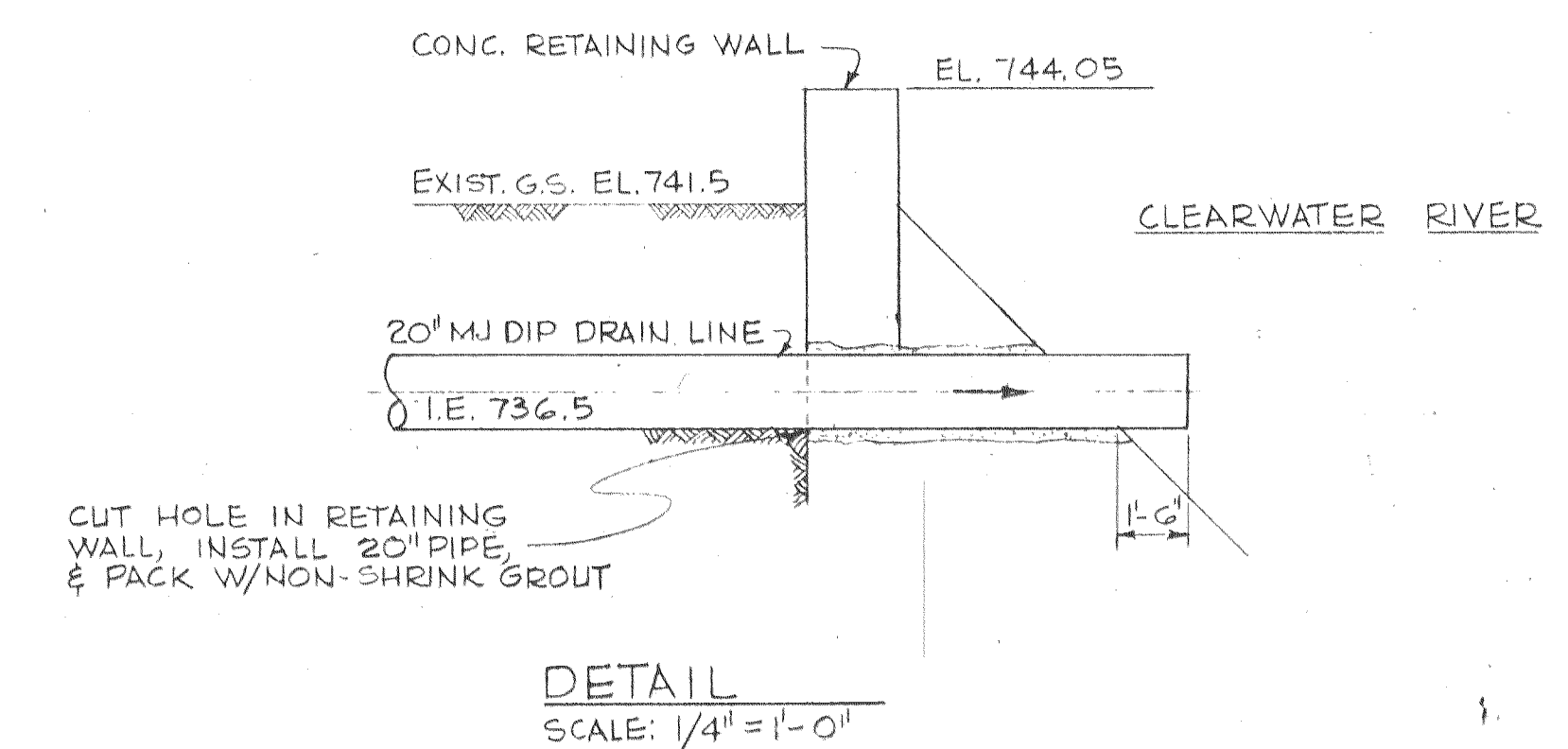
CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

RAW WATER SUPPLY LINE - RIVER & LEVEE CROSSING
TEMPORARY PIPING AND SUPPORTS

REGISTERED PROFESSIONAL ENGINEER
JAMES A. CROWN
STATE OF IDAHO



SITE PLAN
SCALE: 1" = 30'



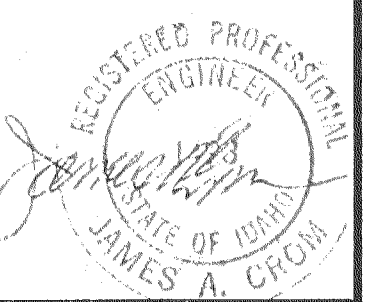
DESIGNED	DEA	APPROVED	<i>Conley</i>
DRAWN	DGF	SCALE	AS SHOWN
DATE	NO.	REVISION	DATE
1-22-75	1	AS BUILT	AUG.-72
DATE	NO.	REVISION	FILE
			72-P-830,002, 10341



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PORTLAND SEATTLE BOISE

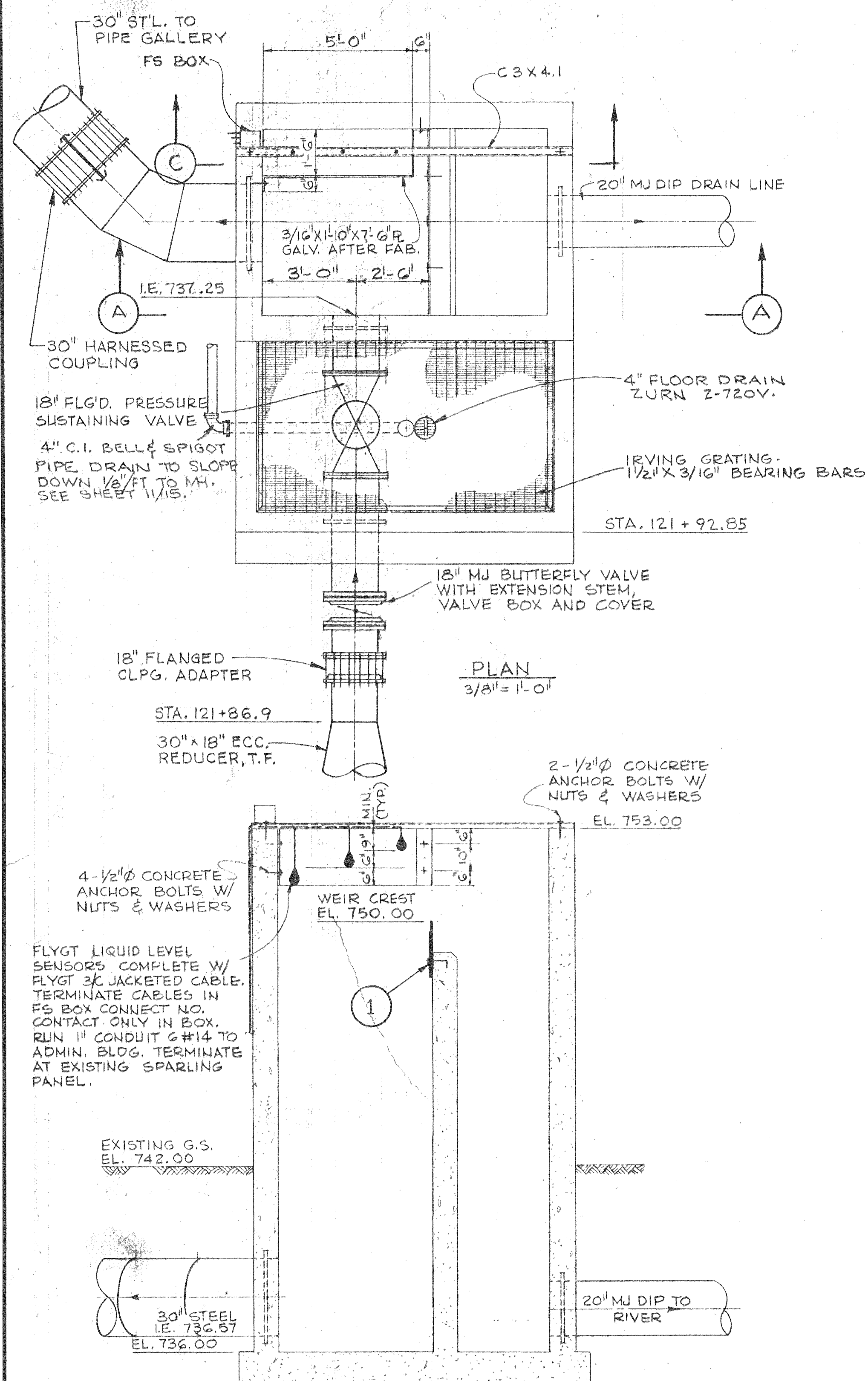
CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

WATER TREATMENT PLANT HEADBOX
SITE PLAN, GRADING & PIPING

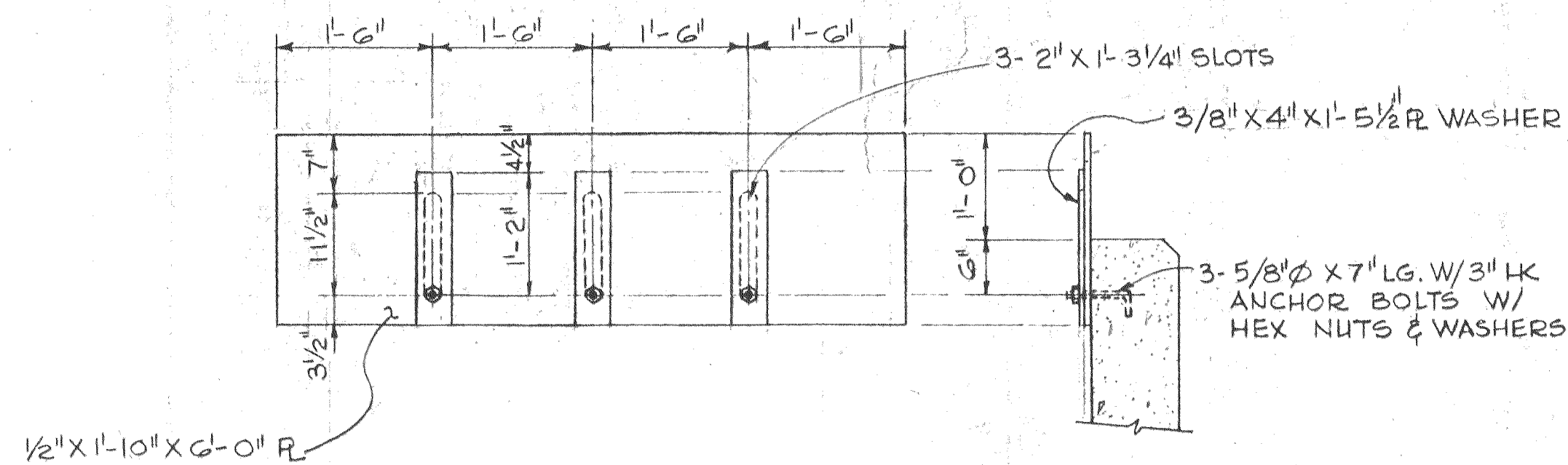


11
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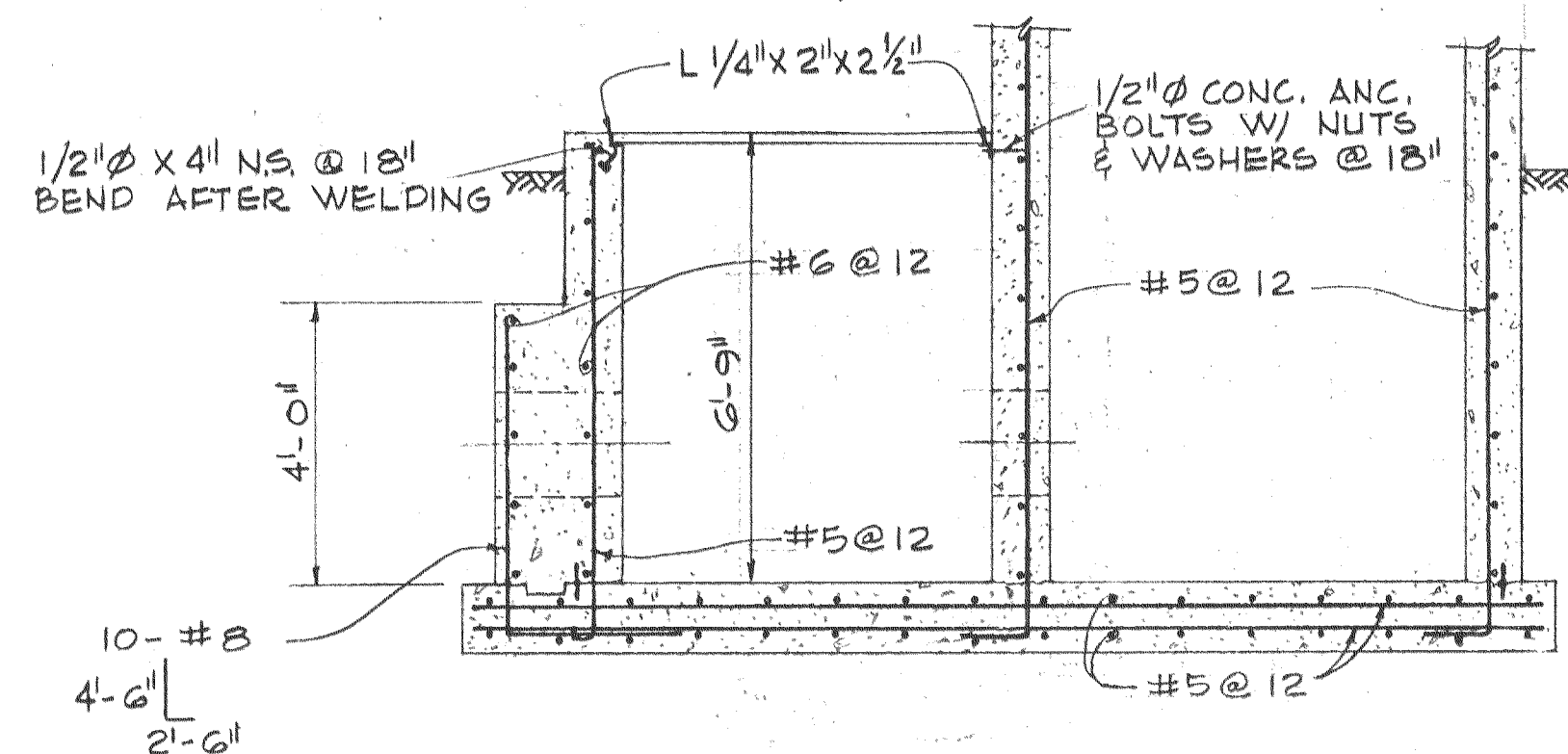
04-72-8-2



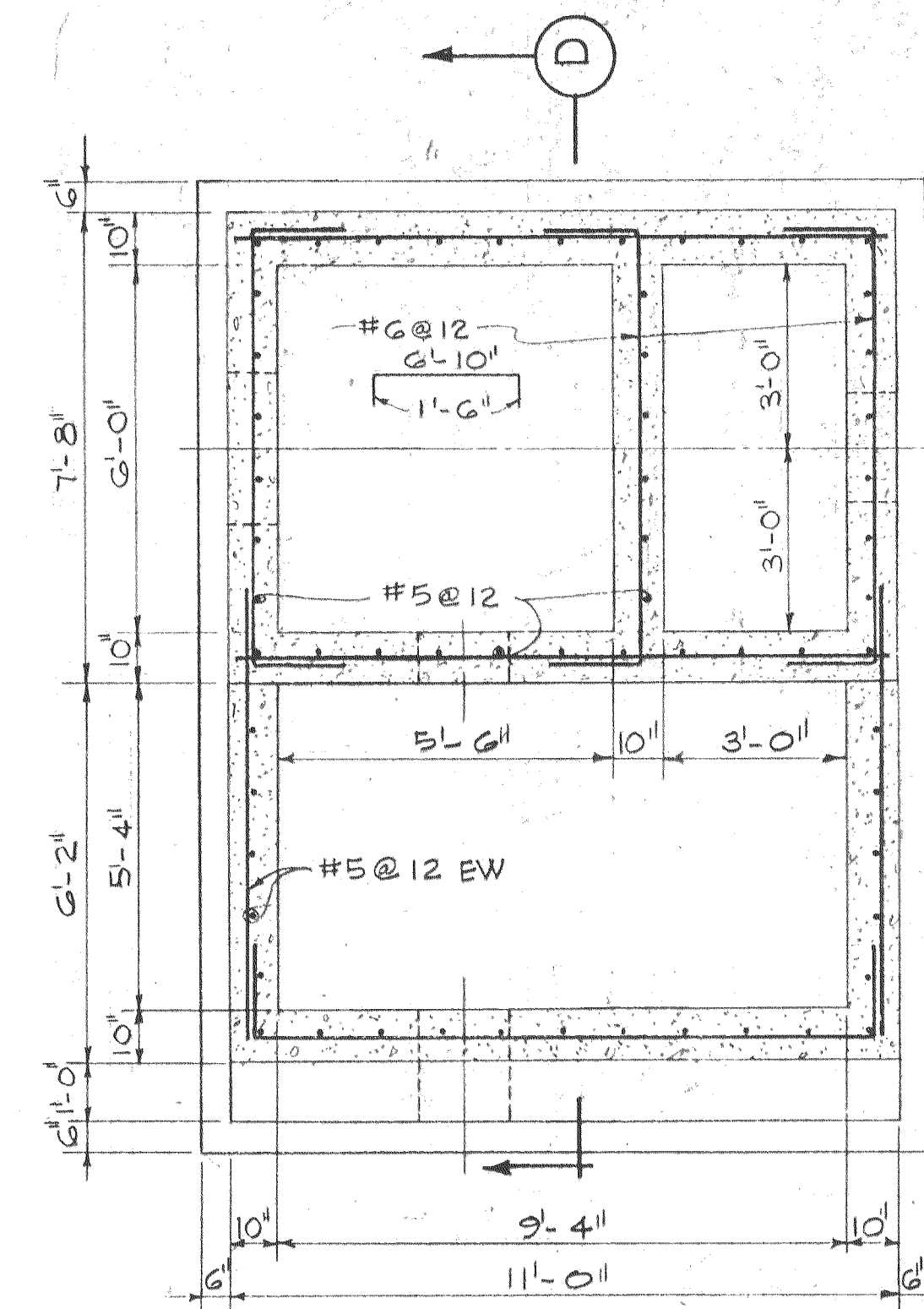
PLAN
3/8" = 1'-0"



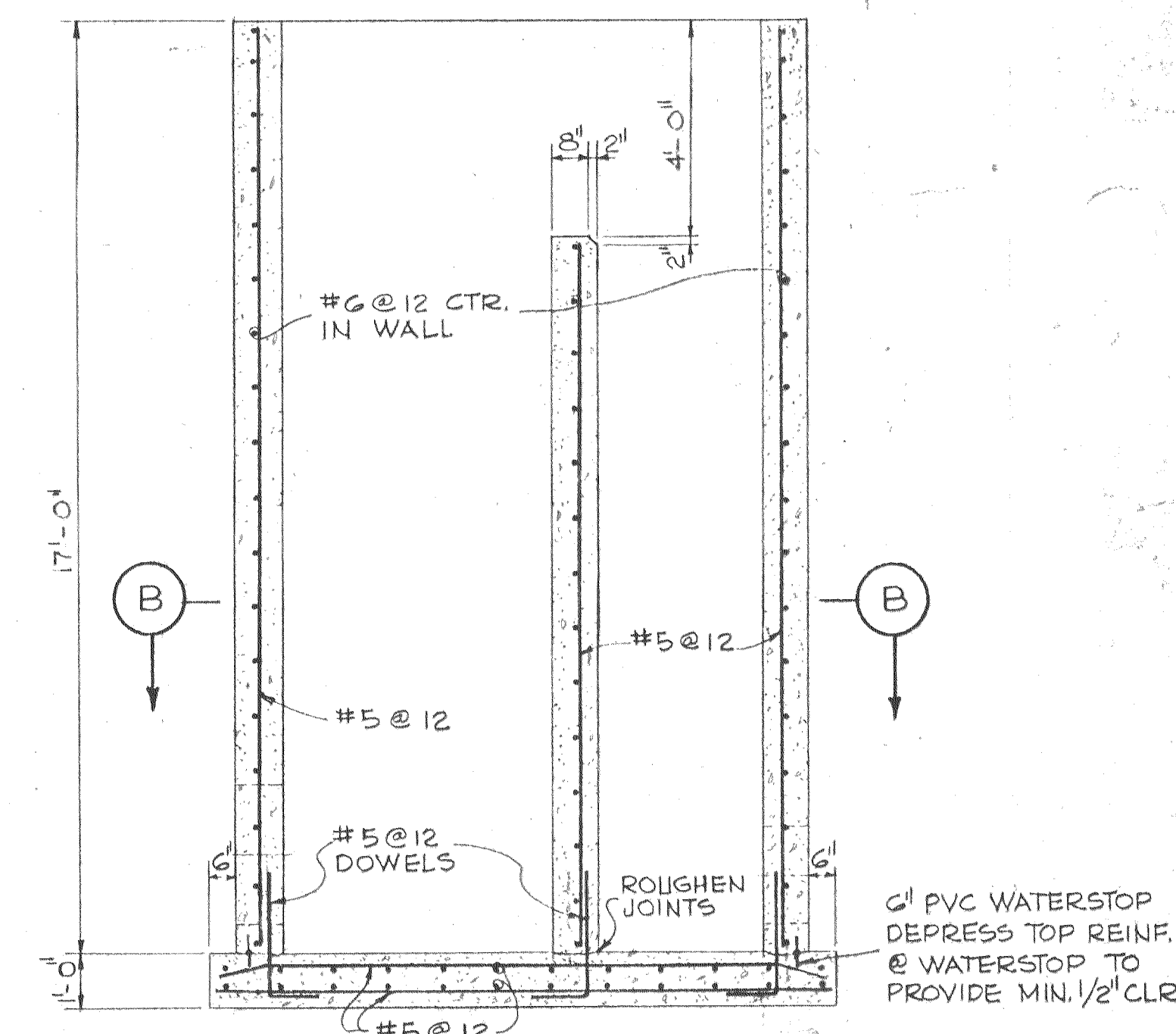
WEIR PLATE
DETAIL
3/4" = 1'-0"



SECTION D
3/8" = 1'-0"



SECTION B
3/8" = 1'-0"



SECTION C
3/8" = 1'-0"

SECTION A
3/8" = 1'-0"

DESIGNED	DEA	APPROVED	conceal
DRAWN	DGF	SCALE	AS SHOWN
DATE	NO.	REVISION	BY
1-22-75	1	AS BUILT	JCB
			CHECKED
			HWT
			FILE
			72-P-830,002, 10942

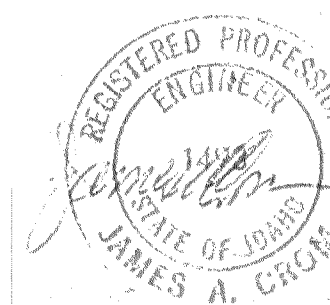


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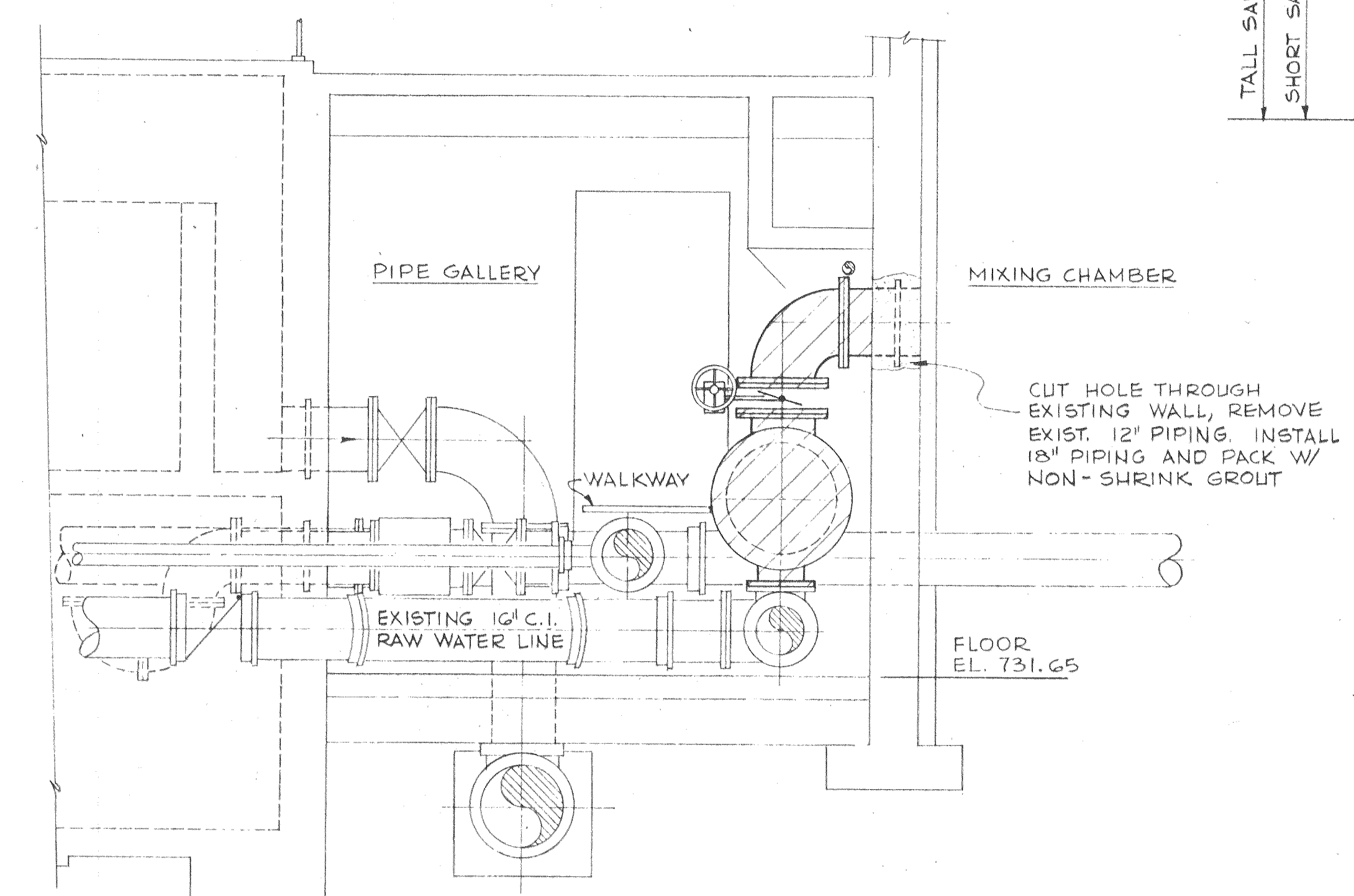
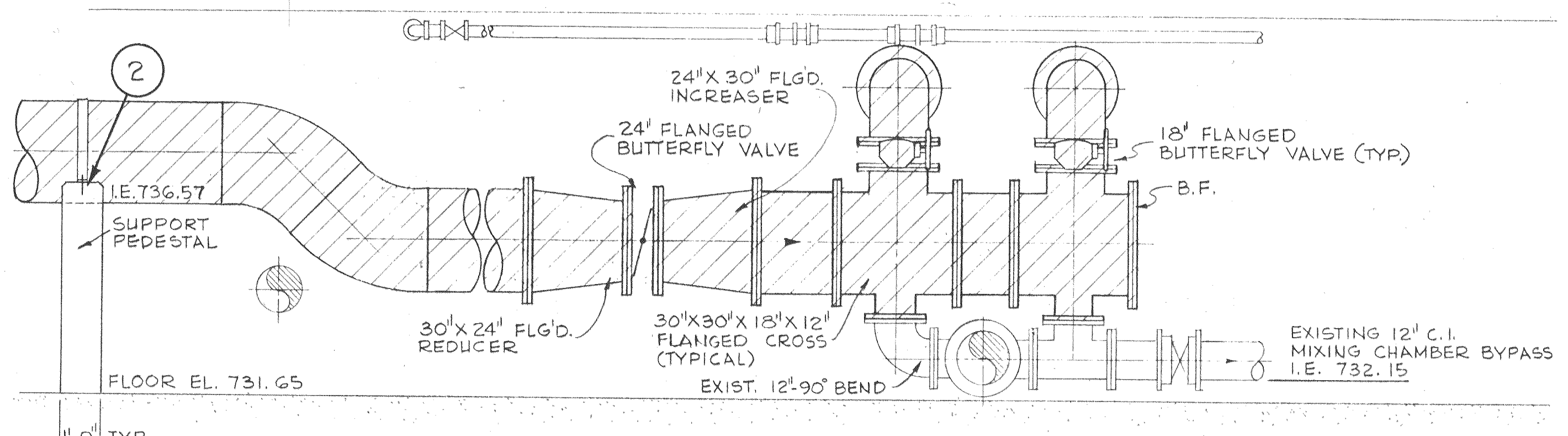
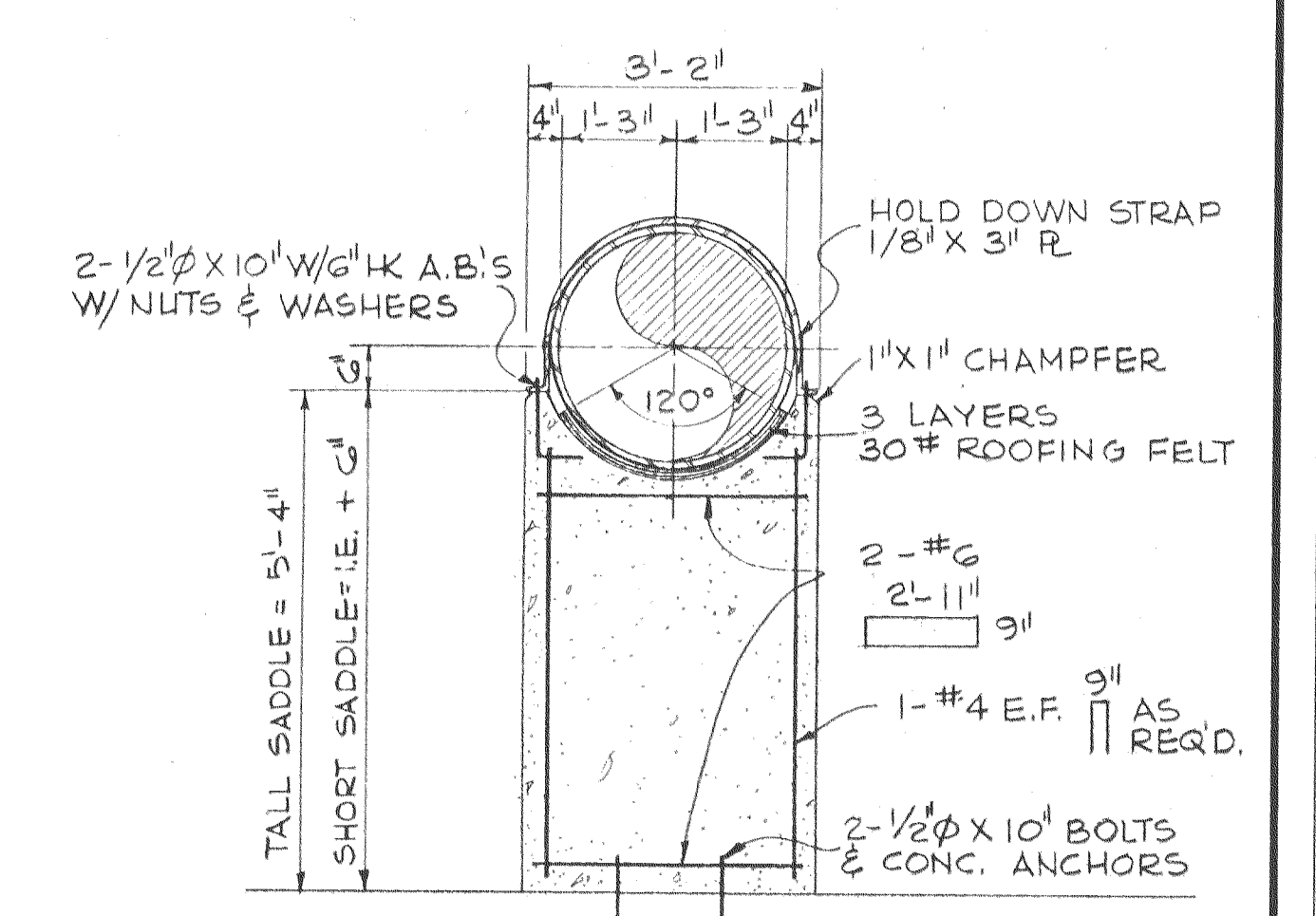
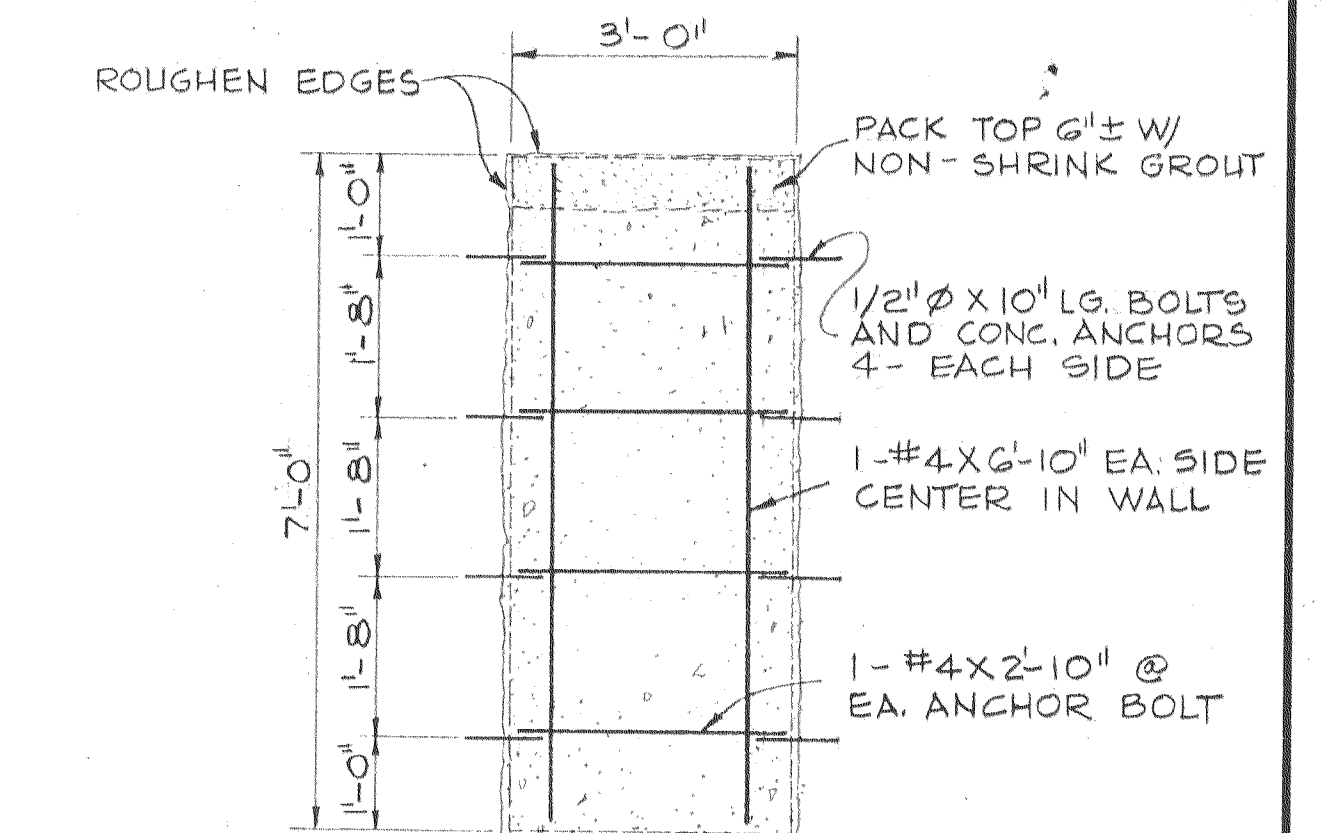
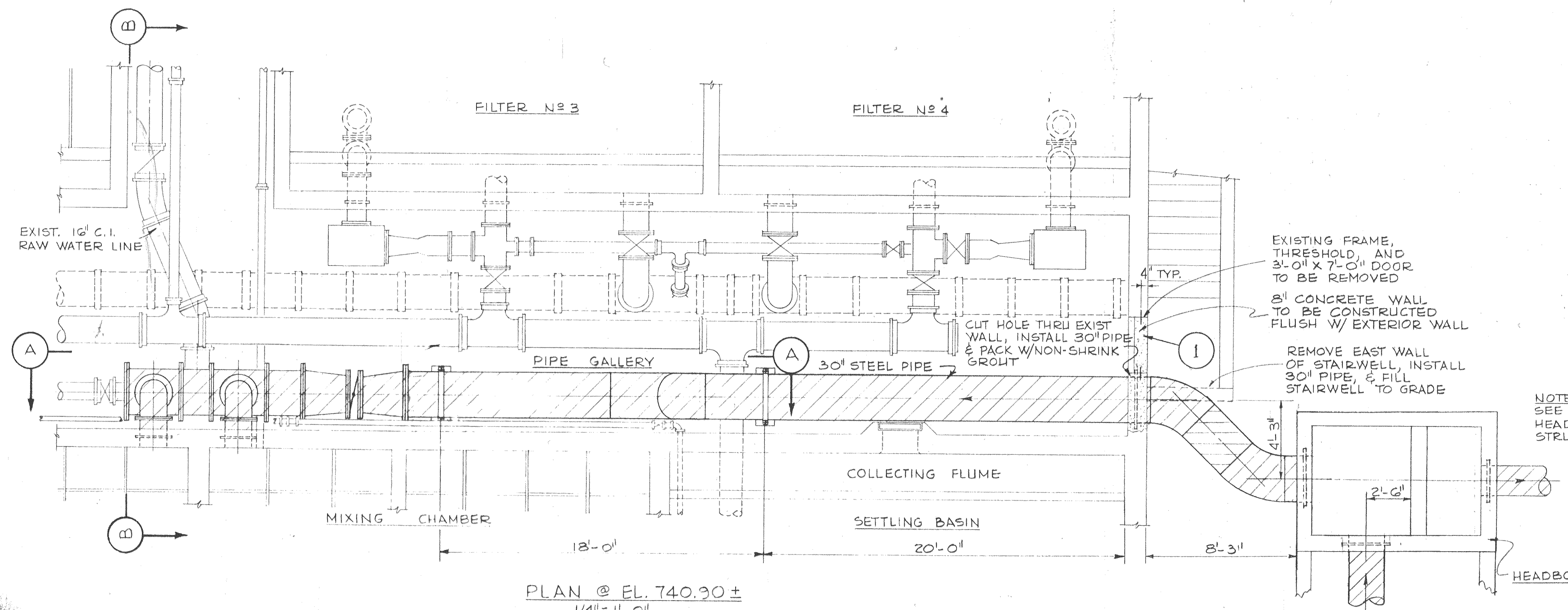
CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

WATER TREATMENT PLANT HEADBOX-MECH.&STRUCT.
PLAN, SECTIONS AND DETAILS

12
15



04-72-8-2



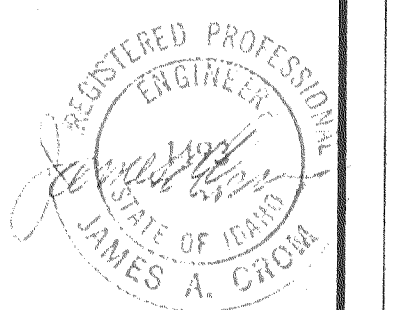
NOTE:
CONTRACTOR SHALL VERIFY
ELEVATIONS OF EXISTING
STRUCTURES & PIPING PRIOR
TO FABRICATION & CONSTRUCTION.

DESIGNED	DEA	APPROVED	<i>[Signature]</i>
DRAWN	DGF	SCALE	AS SHOWN
CHECKED	HWT	DATE	AUG.-72
BY		FILE	72-P-830.002, 10943

ST
Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND SEATTLE BOISE

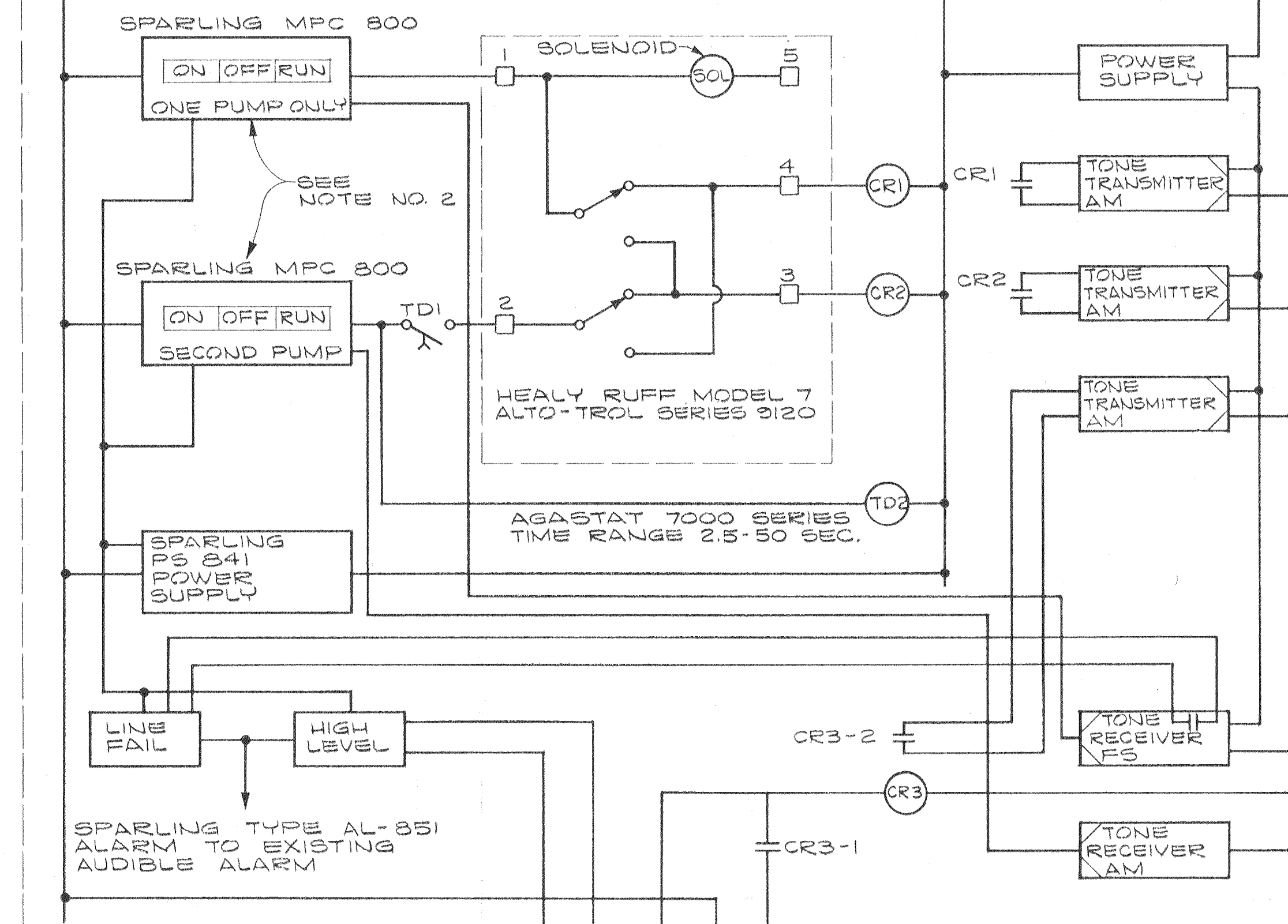
CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

WATER TREATMENT PLANT PIPE GALLERY MODIFICATIONS
PLAN, SECTIONS & DETAILS



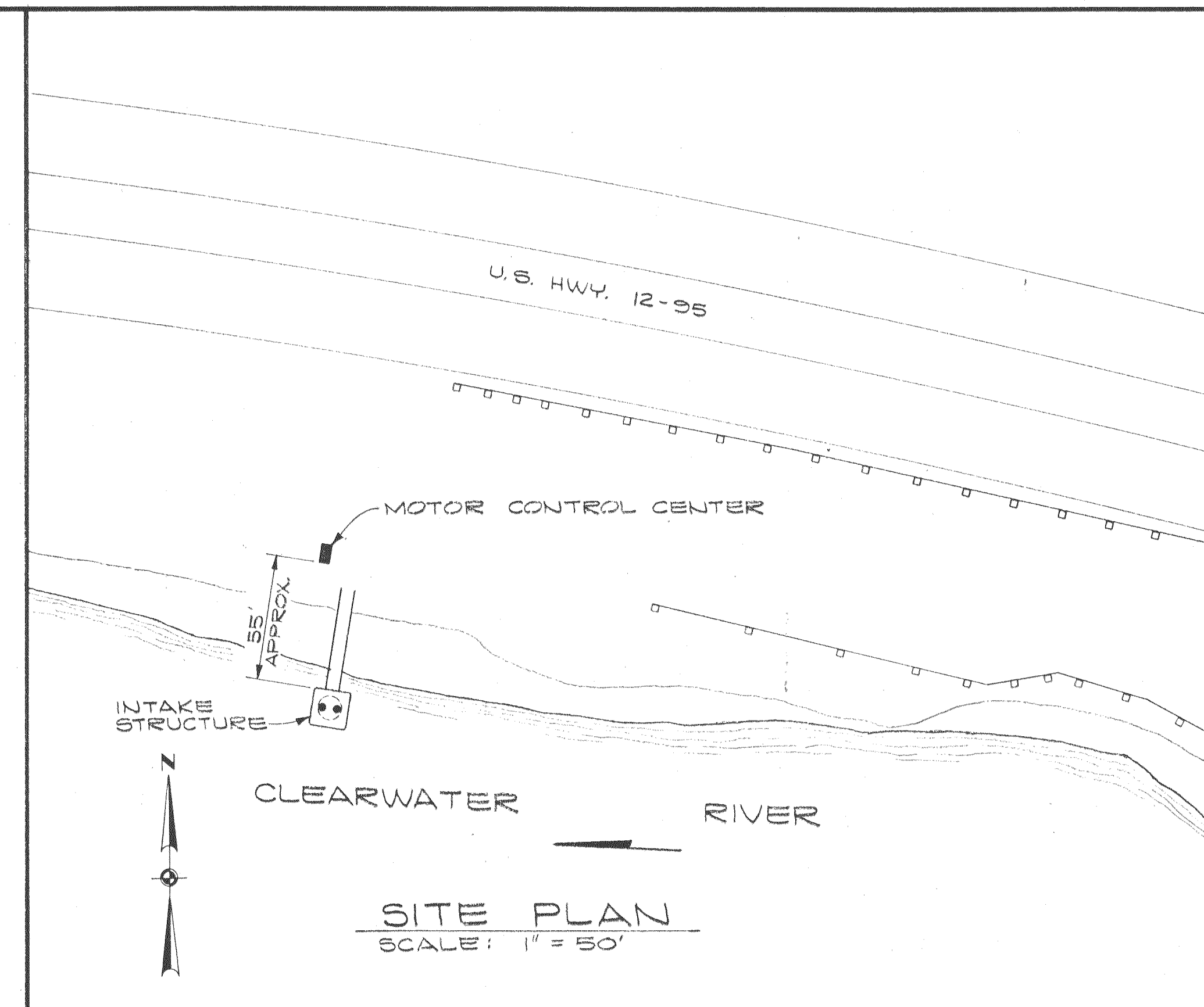
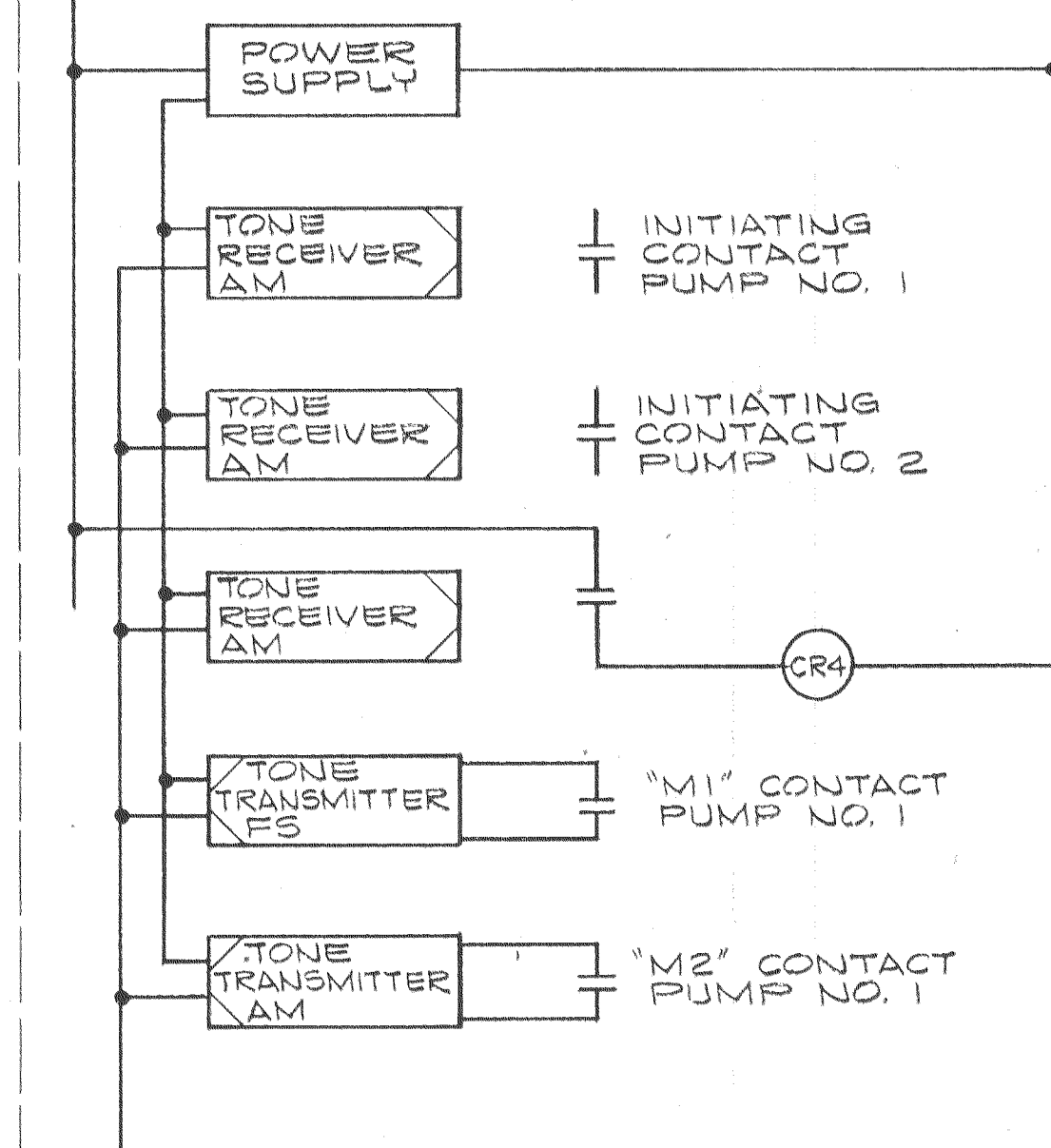
LOCATED AT PLANT - CONTROL OFFICE - ADMINISTRATION BUILDING

120V AC FROM LOCAL PANEL



LOCATED AT INTAKE STRUCTURE

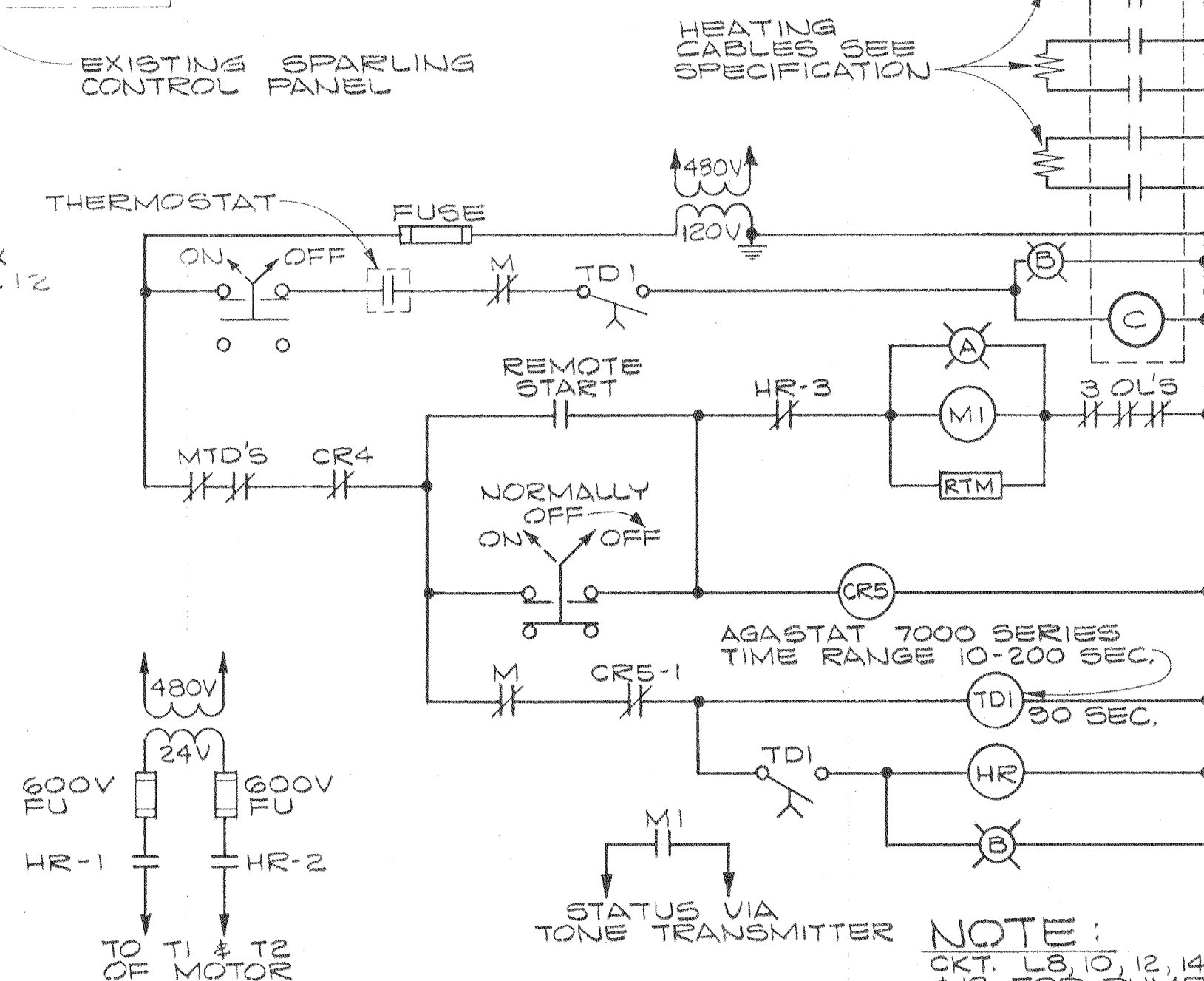
120V SUPPLY CKT. L2



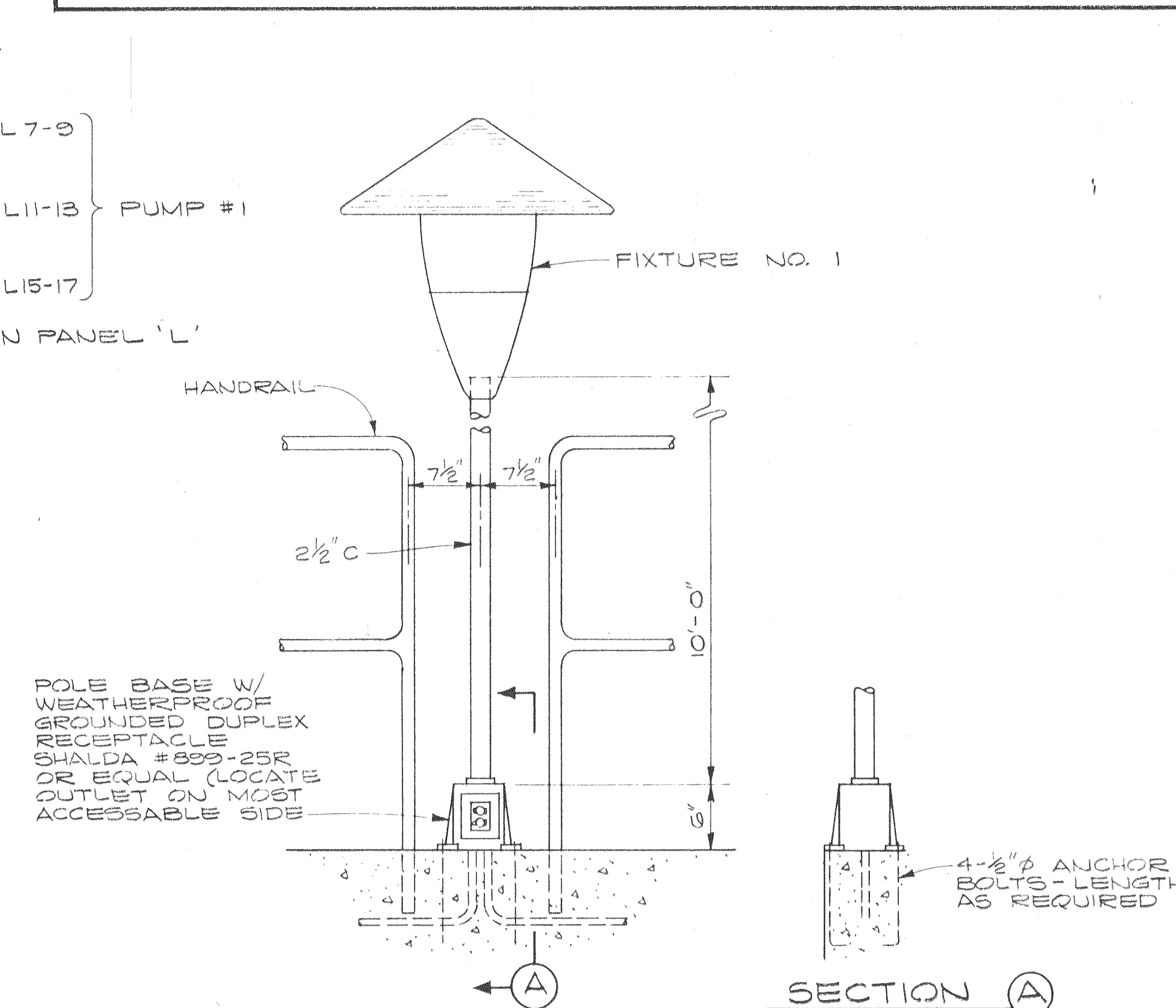
CONTROL & TELEMETERING

NOTES:

1. PROVIDE THREE FLYGT TYPE ENPID LIQUID LEVEL SENSORS C/W FLYGT 3/C PVC JACKETED CABLE. TERMINATE CABLE IN FS BOX.
2. THE SPECIFIED SPARLING MPC 800 MANUAL PUMP CONTROL STATIONS MAY BE REPLACED WITH A SPARLING APC-811 AUTOMATIC PUMP CONTROL IN CONNECTION WITH A MAINTAINED START/STOP STATION. IN THAT CASE START/STOP F.B. NO. 1 WILL BE USED WHEN ONE PUMP ONLY IS REQUIRED AND WILL ALTERNATE THE PUMPS. START/STOP F.B. NO. 2 WILL BE USED ONLY WHEN TWO PUMPS ARE REQUIRED SIMULTANEOUSLY.



CONTROL DIAGRAM NO. 1



DETAIL (A)
SCALE: 1" = 1'-0"

DESIGNED	ANE	APPROVED	DATE
DRAWN	DRS	SCALE	AS SHOWN
CHECKED	JCB	DATE	AUG.-72
FILE	P830.002, 10044		



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PORTLAND SEATTLE BOISE

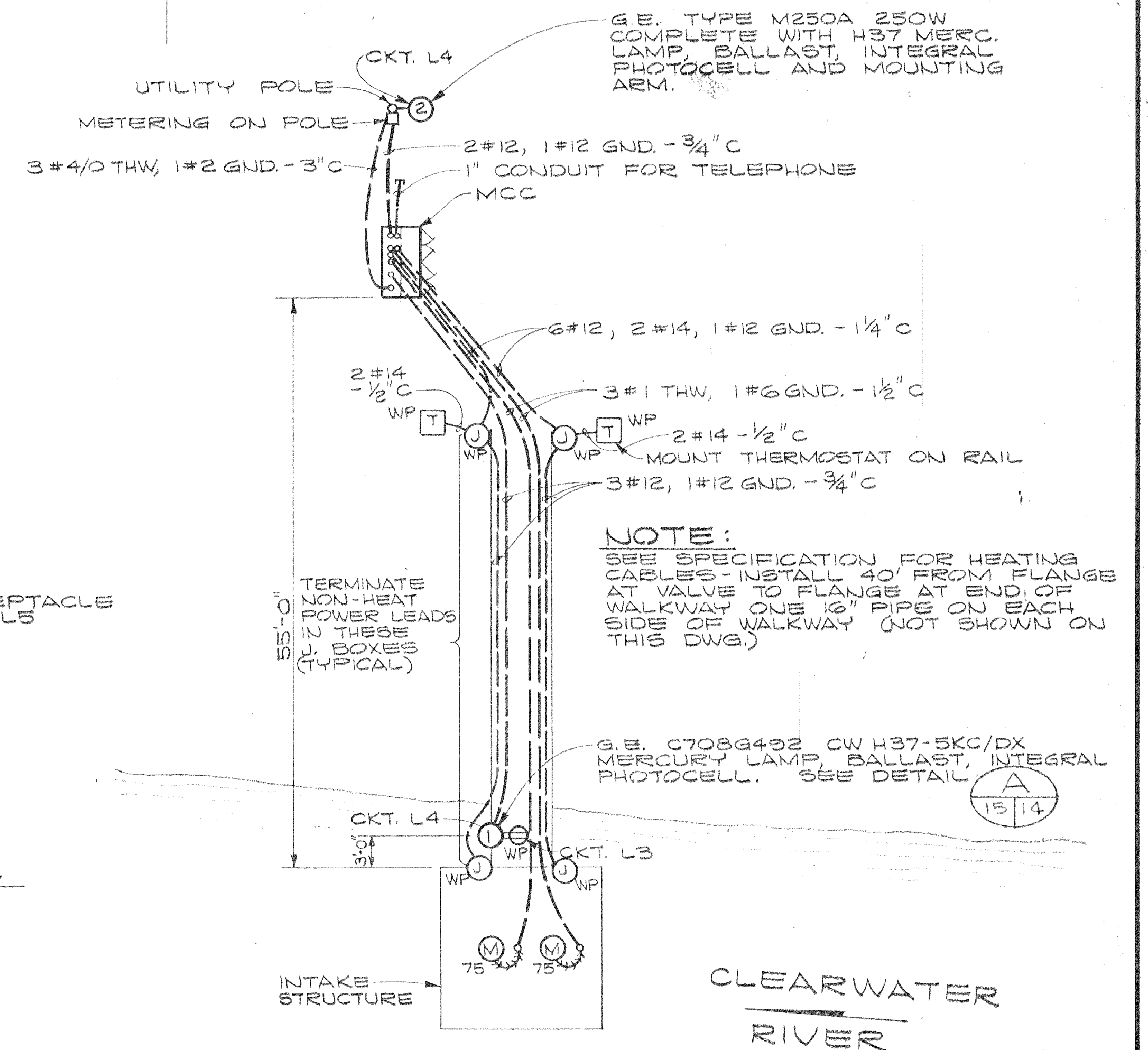
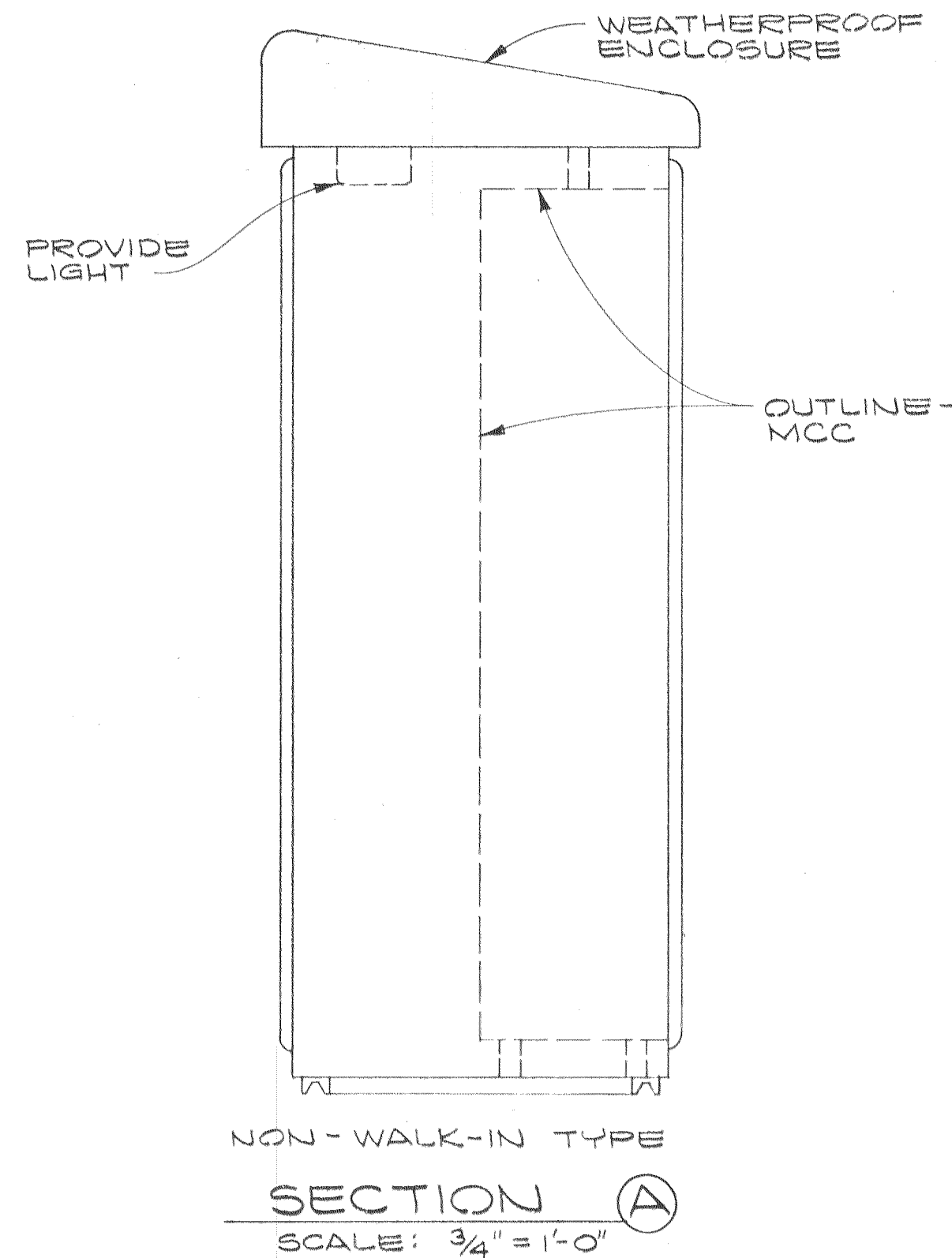
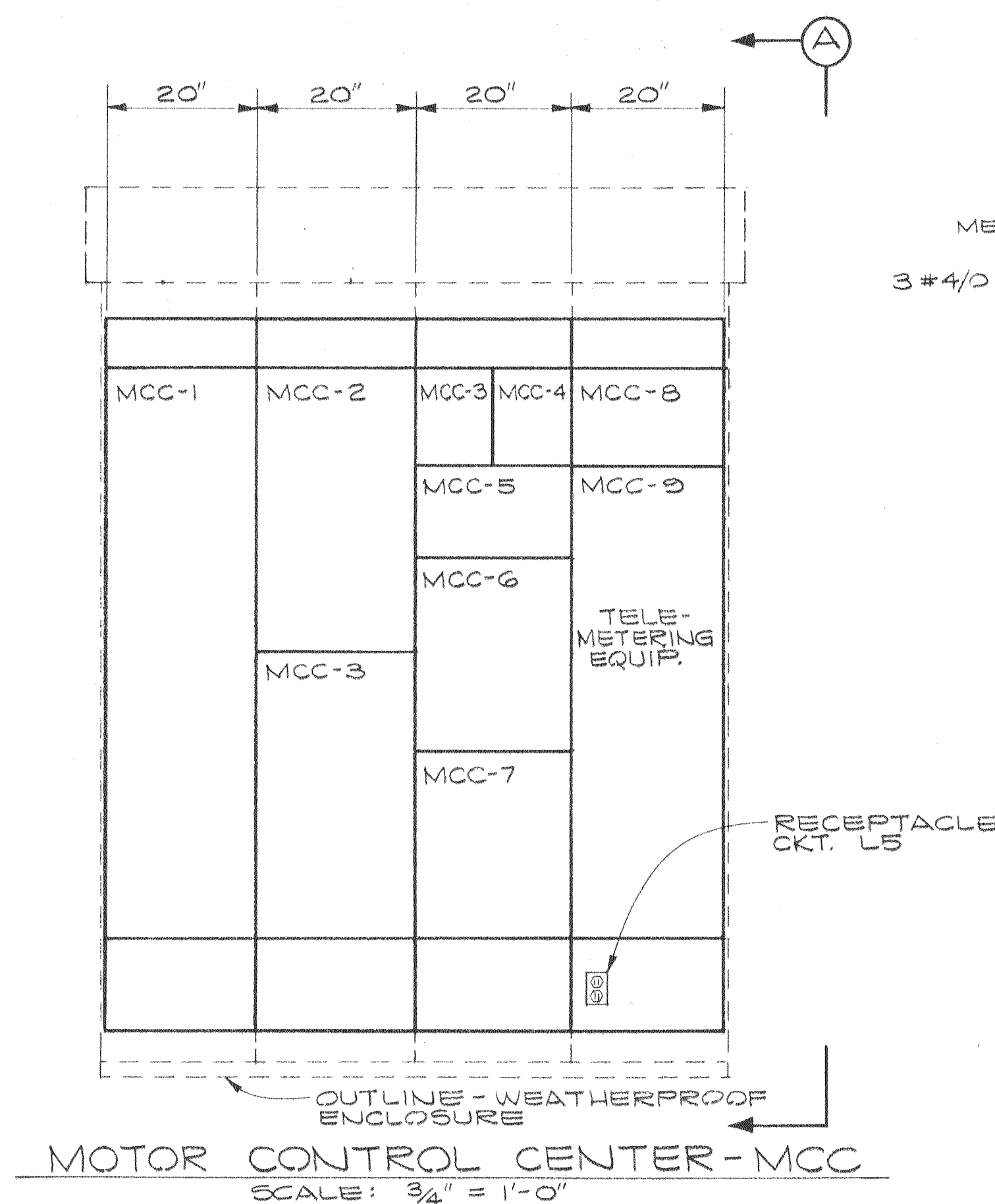
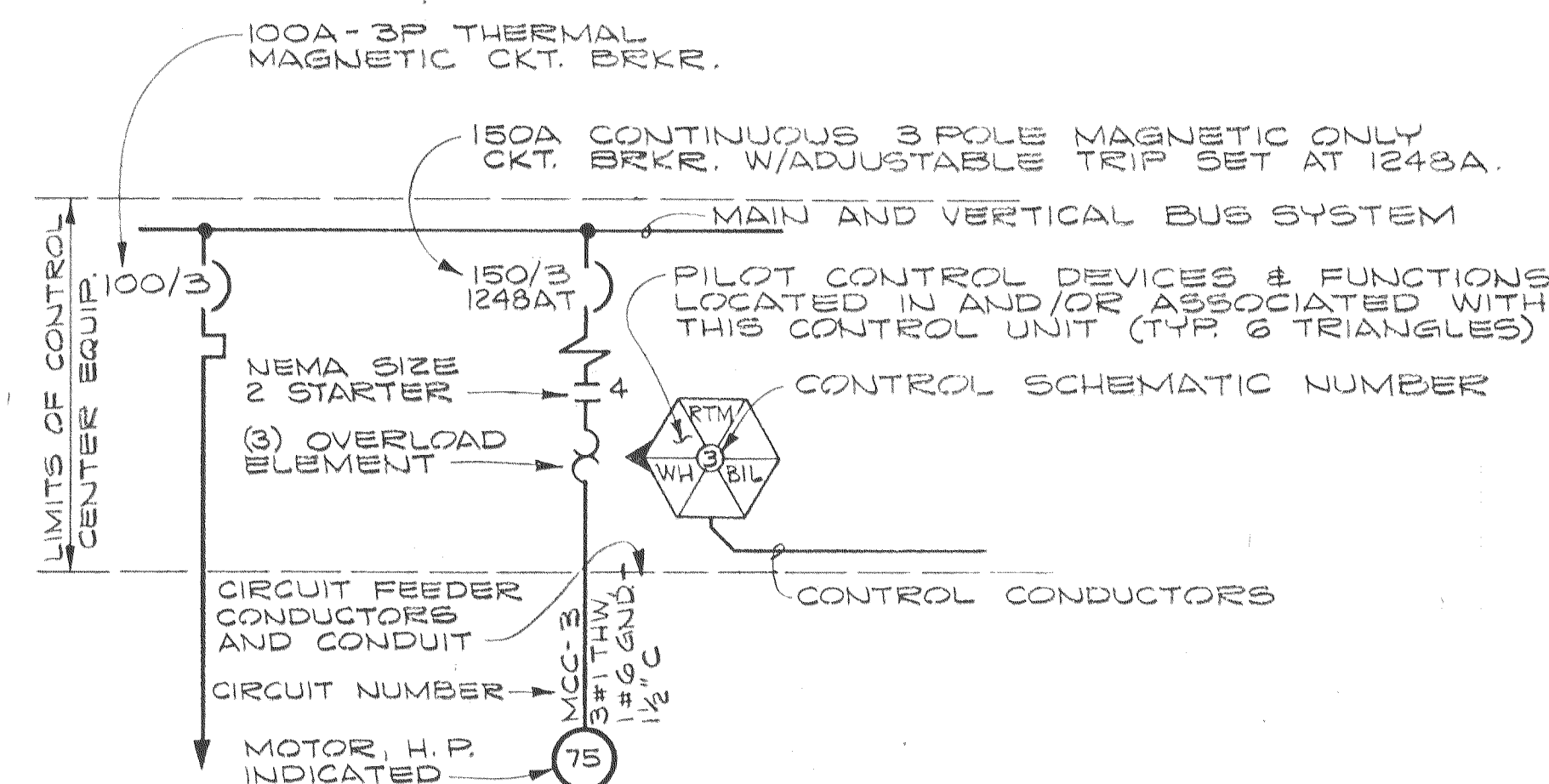
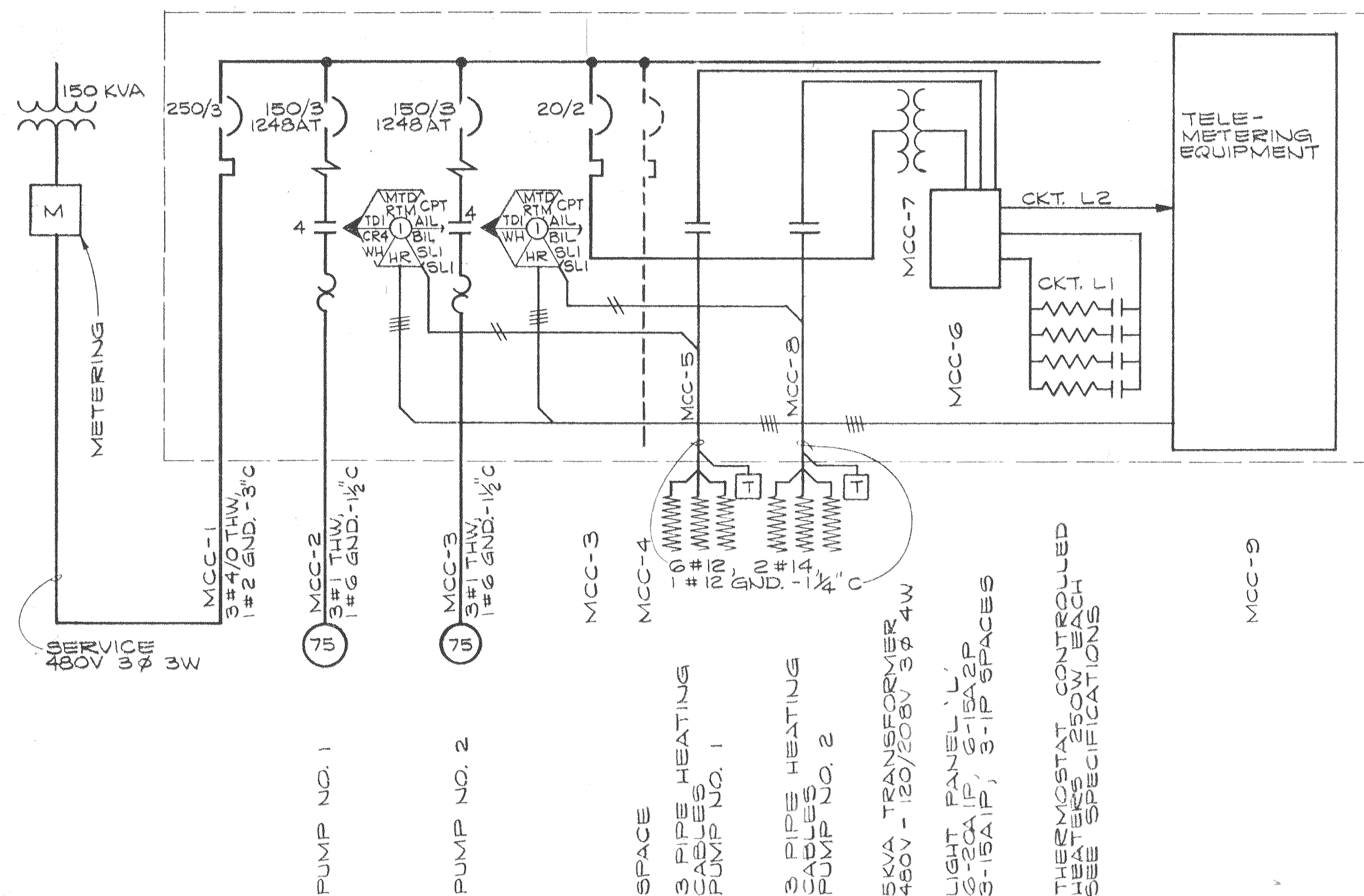
CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

ELECTRICAL SITE PLAN, CONTROL AND
TELEMETERING DIAGRAMS AND DETAILS

14

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04-72-8-2



- LEGEND**
- (M) 75 MOTOR, H.P. INDICATED
 - (L) LIGHT FIXTURE & DUPLEX RECEPTACLE
 - (L2) LIGHT FIXTURE MTD. ON UTILITY POLE
 - MTD MOTOR THERMAL DETECTOR
 - RTM RUNNING TIME METER
 - CPT CONTROL POWER TRANSFORMER
 - AIL AMBER INDICATING LIGHT
 - BIL BLUE INDICATING LIGHT
 - TDI TIME DELAY RELAY
 - CR CONTROL RELAY
 - WH WINDING HEATING
 - HR WINDING HEATING RELAY
 - SLI ON-OFF SELECTOR SWITCH
 - M STARTER COIL
 - T THERMOSTAT (SEE SPECIFICATION)
 - WP WEATHERPROOF

DESIGNED	ANE	APPROVED	<i>[Signature]</i>
DRAWN	DRS	SCALE	AS SHOWN
CHECKED	JCB	DATE	AUG-72
FILE	P830.002, 10245		



Stevens, Thompson & Runyan, Inc.
Engineers/Planners
PORTLAND SEATTLE BOISE

CITY OF LEWISTON • IDAHO
WATER INTAKE AND RAW WATER SUPPLY LINE

ELECTRICAL PLAN, MOTOR CONTROL CENTER-"MCC"
AND ONE LINE DIAGRAM

15

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04-72-08-2