

LAS VIRGENES MUNICIPAL
WATER DISTRICT
LOS ANGELES COUNTY

TRIUNFO COUNTY
SANITATION DISTRICT
VENTURA COUNTY

CONTRACT DOCUMENTS
FOR CONSTRUCTION OF

SOLIDS HANDLING FACILITIES

CONTRACT NO. C-5

CLEAN WATER GRANT
PROJECT NO. C-06-1028-210-01

LAS VIRGENES MUNICIPAL WATER DISTRICT

BOARD OF DIRECTORS

BEN DORGELO—PRESIDENT
A. MACNEIL STELLE ANTHONY K. ELLSWORTH
HAROLD V. HELSLEY GEORGE R. LONG
H.W. STOKES—GENERAL MANAGER/CHIEF ENGINEER

Approved by the Board of Directors
on this 12th day of November 1979

By: Ben Dorgelo
BEN DORGELO—PRESIDENT
By: Anthony K. Ellsworth
ANTHONY K. ELLSWORTH—SECRETARY
By: H.W. Stokes
H.W. STOKES—GENERAL MANAGER/CHIEF ENGINEER

TRIUNFO COUNTY SANITATION DISTRICT

BOARD OF DIRECTORS

THOMAS E. LAUBACHER—CHAIRMAN
EDWIN JONES DONALD H. MILLER
JAMES DOUGHERTY DONALD SCHUR

Approved by the Board of Directors
on this 11th day of November 1979

By: Thomas E. Laubacher
THOMAS E. LAUBACHER—CHAIRMAN
By: John K. Lambie
JOHN K. LAMBE—DISTRICT ENGINEER
Recommended: Charles R. Handy 11-19-79
CHARLES R. HANDY—ASST. DISTRICT ENGINEER

1979 ADDITIONS-MODIFICATIONS TAPIA WATER RECLAMATION FACILITY

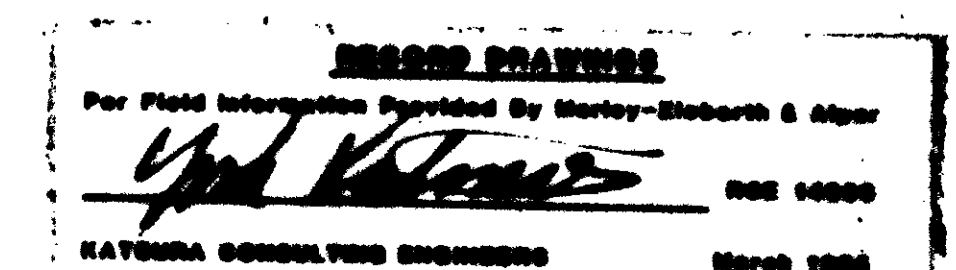
VOLUME 2 OF 2—PLANS

DESIGN ENGINEERS



CONSULTING ENGINEERS
A JOINT VENTURE
LOS ANGELES, CALIFORNIA

03006



DRAWING NO.	DESCRIPTION	DRAWING NO.	DESCRIPTION	DRAWING NO.	DESCRIPTION	DRAWING NO.	DESCRIPTION
REFERENCE DRAWINGS				MISCELLANEOUS METALS			
R - 1	UNIT A - AERATION TANKS - SHT. S-1	S2 - 3A	LOADING DOCK SCREENING & DEGRITTING BUILDING.	MM - 11A	REVISED STAIRWAYS NO. 12 PLANS & SECTIONS.	E - 21A	GENERATOR ROOM.
R - 2	UNIT A - AERATION TANKS - SHT. S-2	S4 - 1A	AEROBIC DIGESTER TANKS - PLANS GALLERY NO. 7.	MM - 11B	STAIRWAYS NOS. 12 & 13 DETAILS.	E - 22A	ELECTRICAL - PLAN, SECTIONS.
R - 3	UNIT A - AERATION TANKS - SHT. S-3	S4 - 1B	AEROBIC DIGESTER TANKS - PLANS GALLERY NO. 8.	MM - 12A	REVISED STAIRWAY NO. 13 PLANS & SECTIONS.	E - 23A	SCHEMATIC DIAGRAMS.
R - 4	UNIT A - AERATION TANKS - SHT. S-4	S4 - 3A	AEROBIC DIGESTER TANKS - SECTIONS.	MM - 13A	PRIMARY SEDIMENTATION TANK ALUMINUM COVER FRAMING PLAN.	E - 26A	MAGNETIC FLOWMETER WIRING REVISIONS.
R - 5	UNIT A - SECONDARY CLARIFIER PLAN & SECTION - SHT. S-5	S4 - 4A	AEROBIC DIGESTER TANKS - SECTIONS.	MM - 13B	PRIMARY SEDIMENTATION TANK ALUMINUM COVER DETAILS - I.	E - 30A	POWER PLAN SLUDGE DEWATERING BUILDING.
R - 6	EXP. I - AEROBIC DIGESTER - SHT. 9	S4 - 9A	AEROBIC DIGESTER TANKS - SECTION, GALLERY NO. 7.	MM - 13C	PRIMARY SEDIMENTATION TANK ALUMINUM COVER DETAILS - II.	E - 30B	LIGHTING & MISCELLANEOUS POWER SLUDGE DEWATERING BUILDING.
R - 7	EXP. I - AEROBIC DIGESTER - SHT. 10	S4 - 10A	AEROBIC DIGESTER TANKS - WALL SECTION AND ELEVATION.	MM - 13D	PRIMARY SEDIMENTATION TANK ALUMINUM COVER DETAILS - III.	E - 31A	PANELS & FIXTURE SCHEDULES.
R - 8	EXP. I - AEROBIC DIGESTER - SHT. 11	S4 - 11A	AEROBIC DIGESTER TANKS - ELEVATION, GALLERY NO. 8.	MM - 13E	PRIMARY SEDIMENTATION TANK ALUMINUM COVER DETAILS IV.	E - 32A	PIPING - CONDUIT INSTALLATION AT M. H. NO. 1 N. S. GALLERY.
R - 9	EXP. I - AEROBIC DIGESTER - SHT. 12	S5 - 6	UPGRADE, EXISTING AEROBIC DIGESTERS & REAERATION TANKS PLAN.	MM - 24	GALLERY ACCESS STAIRWAYS.	E - 34A	MISCELLANEOUS METALS.
R - 10	EXP. I - SECONDARY CLARIFIER - SHT. 18	S5 - 7	UPGRADE, EXISTING AEROBIC DIGESTERS & REAERATION TANKS, PLANS - SECTIONS - ELEVATIONS.	MM - 25	MISCELLANEOUS METALS - PLANS AND SECTIONS.	INSTRUMENTATION & CONTROL	
R - 11	EXP. I - SECONDARY CLARIFIER - SHT. 19	S7 - 3A	EAST-WEST PIPE GALLERY/NORTHWALL ELEVATION.	MM - 26	MISCELLANEOUS METALS - PLANS, DETAILS, AND SECTIONS.	I - 22	P & ID CLARIFICATION.
R - 12	EXP. I - SECONDARY CLARIFIER - SHT. 20	S7 - 3B	EAST-WEST PIPE GALLERY/SOUTHWALL ELEVATION.	F - 1	INDOOR PLATFORM FIELD MEASUREMENTS.	I - 23	P & ID CLARIFICATION.
R - 13	EXP. II - AEROBIC DIGESTER - SHT. 65	S7 - 6	PIPE GALLERIES - PLANS, DETAILS & SECTIONS.	F - 1A	INDOOR PLATFORM COLUMN & BASE PLATE LOCATION.	I - 24	UPGRADING DATA LOGGING & INSTRUMENTATION SYSTEM.
R - 14	EXP. II - AEROBIC DIGESTER - SHT. 66	S7 - 7	PIPE GALLERIES - PLANS, DETAILS & SECTIONS.	F - 2	INDOOR PLATFORM EQUIPMENT AND COLUMN BASE.	LANDSCAPE	
R - 15	EXP. II - AEROBIC DIGESTER - SHT. 67	S8 - 4A	JUNCTION CHAMBER NO. 1.	F - 3	COLUMN BASE PLATE BLOCK OUT.	L - 8	IRRIGATION PLANS AND DETAIL.
R - 16	EXP. II - AEROBIC DIGESTER - SHT. 68	S8 - 6A	JUNCTION CHAMBER NO. 3 PLANS & SECTIONS.	1	INDOOR PLATFORM FRAMING MODIFICATION.		
R - 17	EXP. II - AEROBIC DIGESTER - SHT. 69	S8 - 6B	JUNCTION CHAMBER NO. 3 SECTION & DETAILS.	2	INDOOR PLATFORM FRAMING MODIFICATION.		
R - 18	EXP. II - AEROBIC DIGESTER - SHT. 70	S8 - 7A	METERING VAULT ADDITIONS.	3	INDOOR PLATFORM FRAMING MODIFICATION.		
R - 19	EXP. I - MISCELLANEOUS STRUCTURE - SHT. 22	S8 - 9	WEATHER COVER AT GALLERY NO. 8.	4	INDOOR PLATFORM FRAMING MODIFICATION.		
ADDITIONAL DRAWINGS				MECHANICAL			
GENERAL				D - 1			
G1 - 6	SITE PLAN - DETAILS.	ARCHITECTURAL		E - 1			
CIVIL				E - 2			
C2 - 2A	SITE WORK AND GRADING PLAN 1A.	A2 - 5	SLUDGE DEWATERING BUILDING FLOOR PLAN.	M1 - 26			
C2 - 2AX	EMBANKMENT.	A2 - 6	SLUDGE DEWATERING BUILDING SECTIONS & DETAILS.	M1 - 27			
C2 - 2B	SITE WORK - DETAILS I.	A2 - 7	SLUDGE DEWATERING BUILDING SECTIONS & DETAILS.	M1 - 28			
C2 - 2C	SITE WORK - DETAILS II.	A3 - 8	REVISED FRAMING PLAN AT HEADWORKS.	M5 - 5			
SKC2 - 2A	FLOODWALL SECTION.	A3 - 9	MONORAIL SUPPORT PLAN & ELEVATION.	M6 - 28			
SKC2 - 2B	FLOODWALL SECTION.	A3 - 10	MONORAIL SUPPORT ELEVATION, SECTIONS & DETAILS.	M7 - 18			
SKC2 - 2C	FLOODWALL SECTION.	A4 - 7	ELECTRICAL BUILDING - PLANS.	M8 - 4			
SKC2 - 2D	FLOODWALL SECTION.	A7 - 3	CONTROL ROOM.	M9 - 1			
SKC2 - 2E	PIPE TRENCH.	YARD PIPING		M9 - 2			
SKC2 - 2F	FLOODWALL DETAILS.	YP - 4A	SHOP & MAINTENANCE BUILDING DRAIN PLAN & PROFILE.	M9 - 3			
SKC2 - 2G	RETAINING WALL & SHOP MAINTENANCE BUILDING.	YP - 14A	YARD PIPING DETAILS.	M9 - 4			
SKC2 - 2H	SECTIONS & DETAILS.	YP - 19	MISCELLANEOUS DETAILS - I.	M9 - 7			
SKC2 - 2I	REVISED FLOODWALL PROFILE.	YP - 20	MISCELLANEOUS DETAILS - II.	M9 - 8			
SKC2 - 2J	REVISED FLOODWALL SECTIONS.	YP - 21	SUPPORT FRAMING DETAILS - I.	M9 - 9			
SKC2 - 2K	FLOODWALL GRADE PROTECTION PLAN.	YP - 22	SUPPORT FRAMING DETAILS - II.	M9 - 10			
SKC2 - 2L	FLOODWALL GRADE PROTECTION SECTIONS.	YP - 23	SPECIAL PIPE SUPPORT.	M9 - 11			
SKC2 - 2M	FLOODWALL GRADE PROTECTION SECTIONS & DETAILS.	YP - 24	CAMP GONZALES SEWER CONNECTION.	M11 - 5			
SKC2 - 2N	FLOODWALL GRADE PROTECTION SECTIONS.	YP - 25	SUMP PUMP NO. 6 PIPE SUPPORT.	M11 - 5A			
SKC2 - 3A	SITE WORK & GRADING PLAN.	YP - 26	YARD PIPING - DETAILS.	M13 - 9			
SKC2 - 3B	CROSS SECTION.						
SKC2 - 3C	SITE WORK & GRADING PLAN.						
SKC3 - 1A	MISC. FLOODWALL.						
SKC6 - 5A	NORTH-SOUTH PIPE GALLERY ELEVATIONS.						

03010

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.

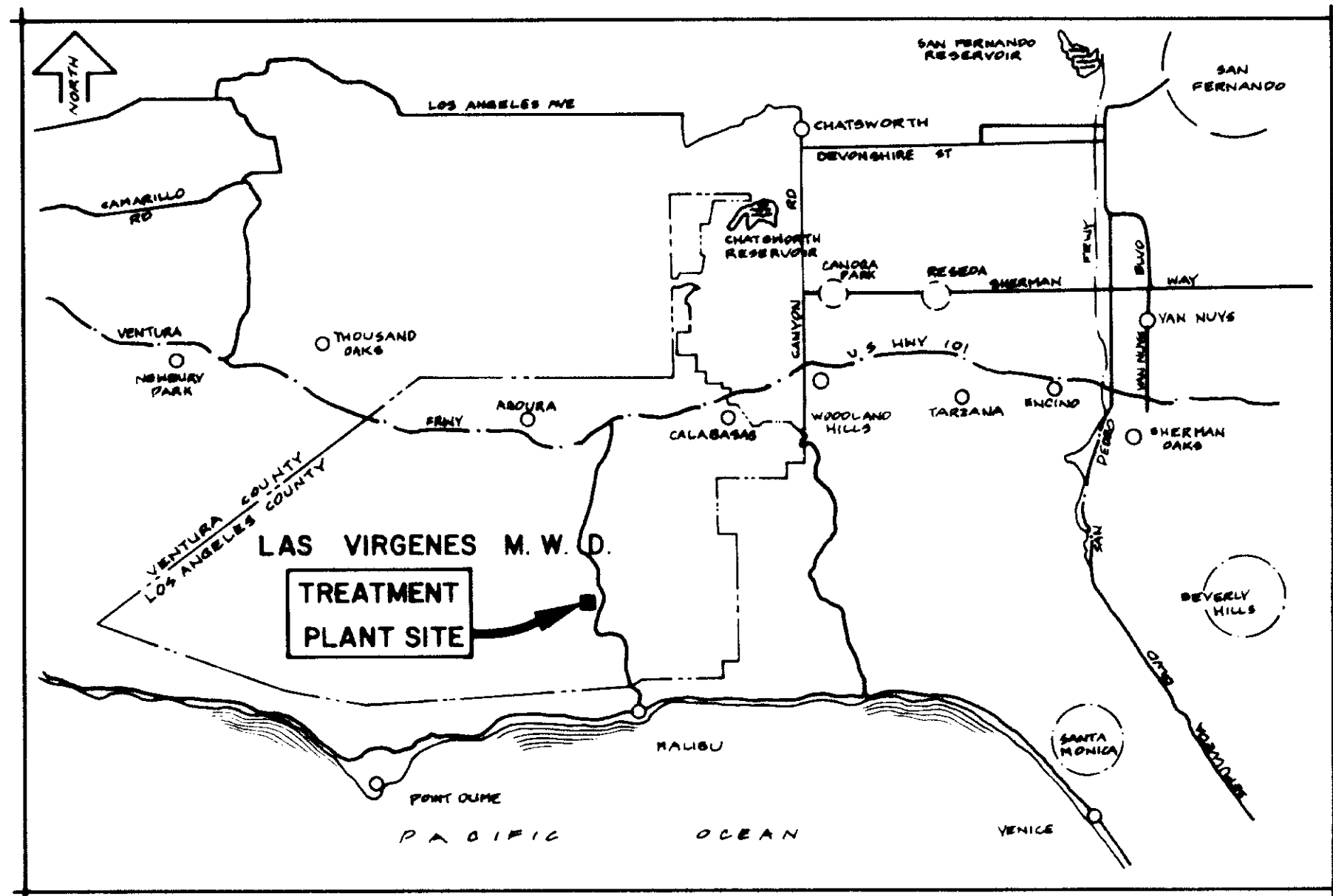
SHEET
G1-4

INDEX

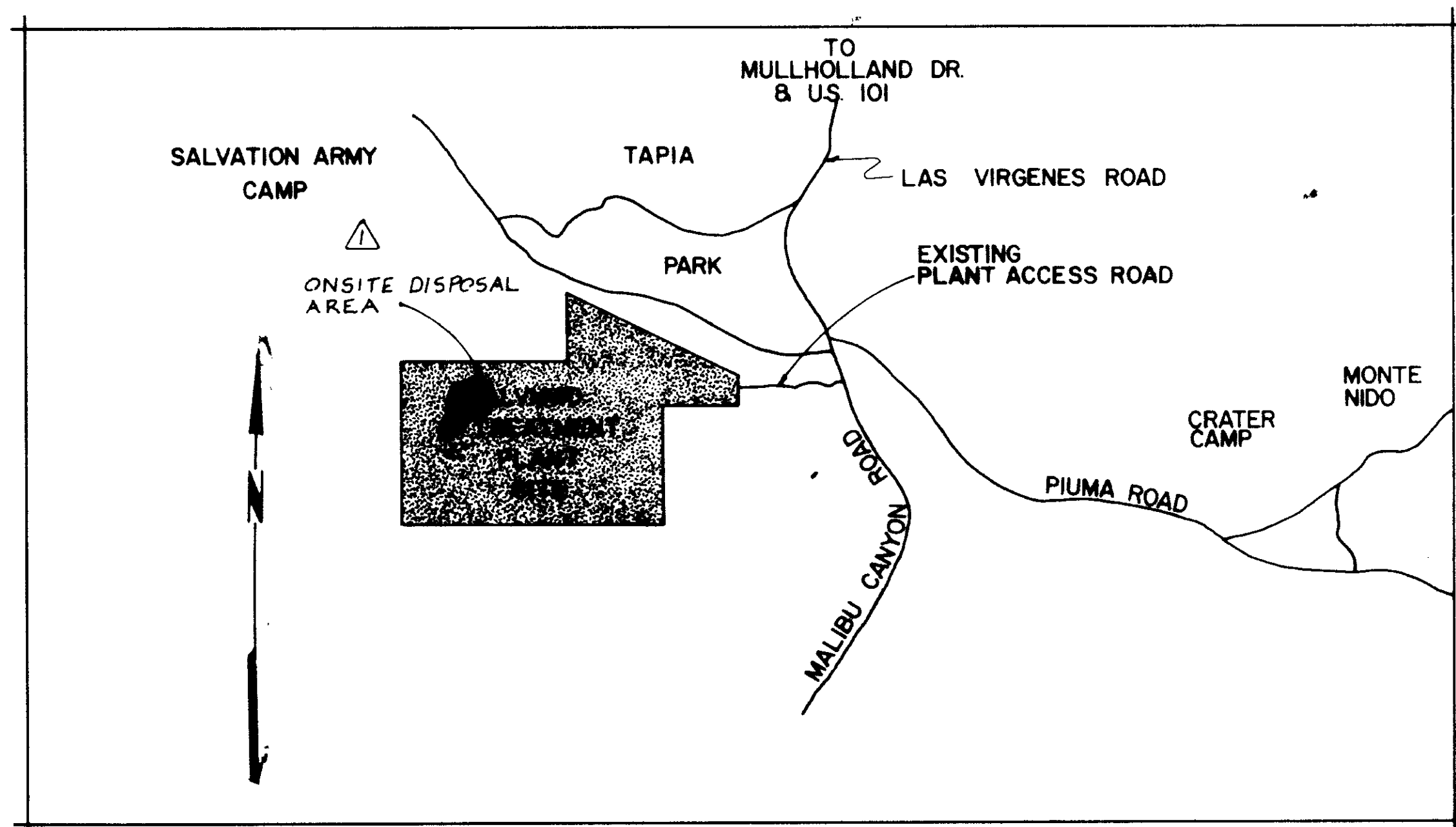
JKS CONSULTING ENGINEERS
A JOINT VENTURE
8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-9117

SCALE: NONE
DESIGNED: P. LEON / Y.K. LIGHTFOOT
DRAWN: Y. KATSURA
CHECKED: Y. KATSURA
SUBMITTED: 14038 11-4-79
PROJECT MANAGER: R.C.E. NO. DATE
PROJECT ADMINISTRATOR: 14894 11-5-79
R.C.E. NO. DATE

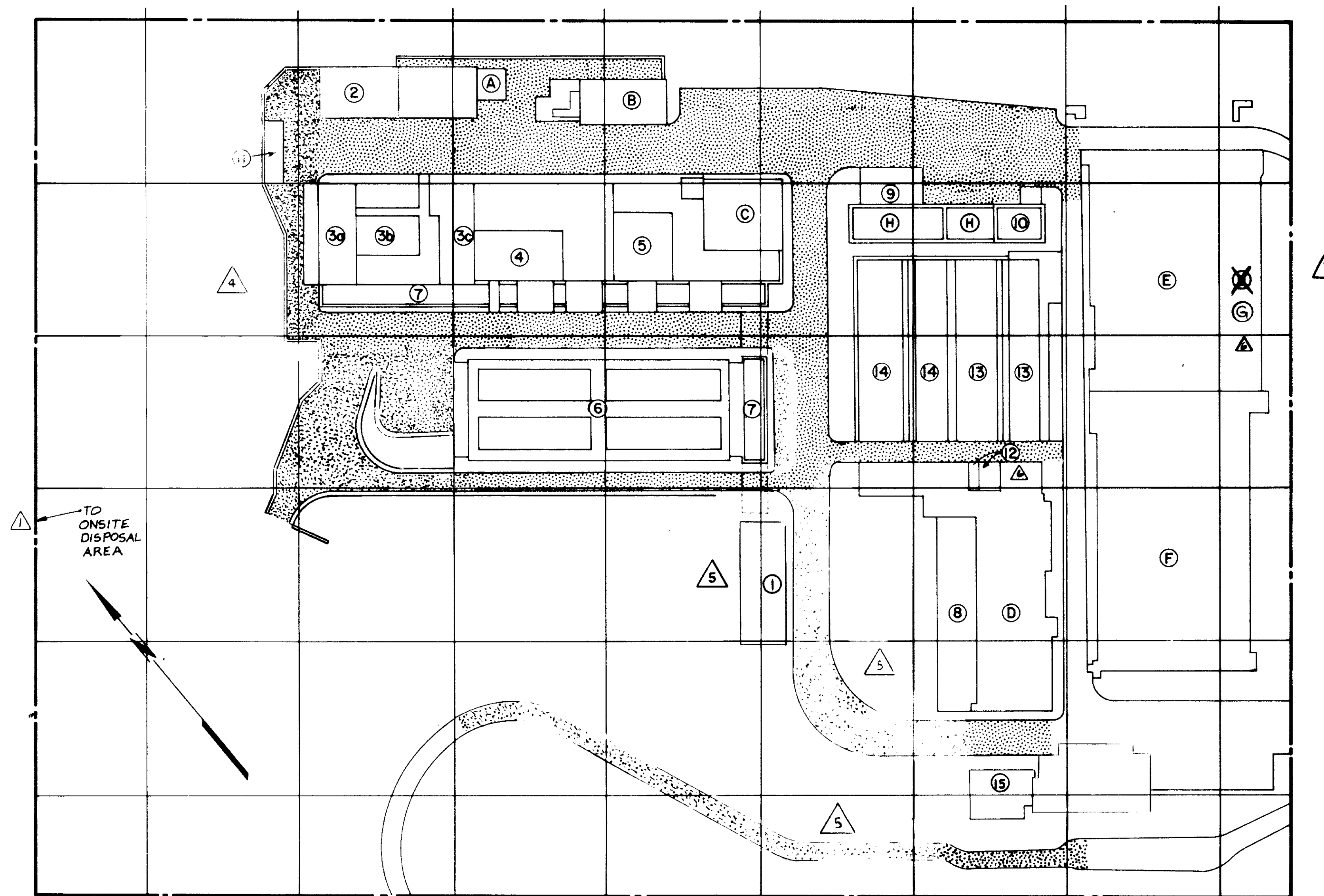
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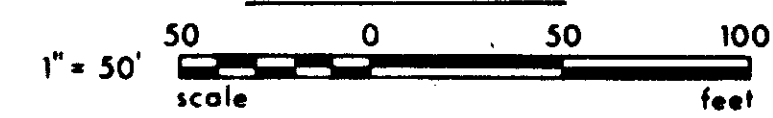
VICINITY MAP
NTS



LOCATION MAP
NTS



SITE PLAN



KEY TO STRUCTURES

NEW STRUCTURES

- (1) Shop and Maintenance Building (By Others)
- (2) Sludge Dewatering Facility. \triangle 3
- (3) Headworks
 - a) Screening & Degritting \triangle 3
 - b) Grit Pump Room
 - c) Influent Pump Building
- (4) Electrical Building
- (5) Process Air Compressor Building \triangle 3
- (6) Aerobic Digester's No. I-A, I-B, II-A, & II-B
- (7) Pipe Gallery Structures
- (8) Primary Sedimentation Tank No. 3
- (9) Sludge Pumping Station
- (10) Sludge Screening Facility & Wet Well \triangle 3
- (11) Electric Substation
- (12) Electric Relocation Building

STRUCTURES TO BE MODIFIED

- (13) Reaeration Tank No's I & 2
- (14) Aerobic Digester's No's III & IV
- (15) Administration Building (By Others)

EXISTING STRUCTURES

- (A) Influent Pump Station
- (B) Control Building
- (C) Solids Concentration Facility \triangle 3
- (D) Primary Sedimentation Tanks No's I & 2
- (E) Final Sedimentation Tanks No's 1, 2, 3, & 4 \triangle 3
- (F) Aeration Tanks No's 1, 2, & 3
- (G) C12 Contact Tank No. 2 \triangle 3

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yoshida RCE 14088
KATSURA CONSULTING ENGINEERS March 1985

(H) C12 Contact Tank No. 1 \triangle 3
(To Be Modified)
 \triangle 10 WET WELL "14" x "2"

03011

NOV FINAL SED TANK "E" (C-B CONTRACT)

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
				8-13-88	Y.K.		COAST. COMM. REV. PART 1
				2-21-79	Y.K.		MISC. CLARIFICATIONS
				2-21-79	Y.K.		OAK TREE PRES. MOD.
				11-4-77	Y.K.		ADD NOTES
0-20-89		C.L.	REV. PER MZA & JLE				
8-13-80		Y.K.	Coast. Comm. REV. PART 2				

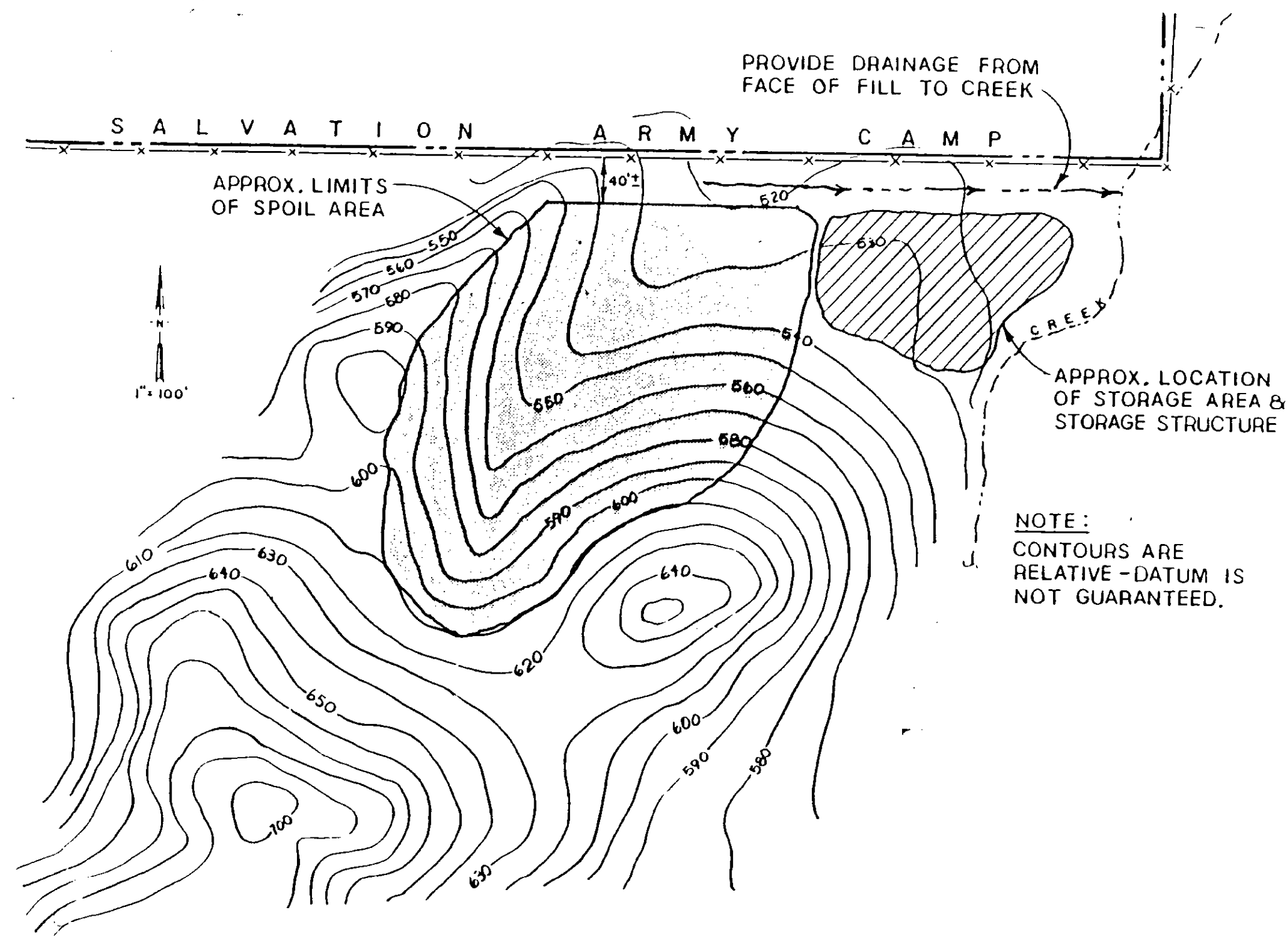
SCALE :	AS NOTED
DESIGNED	Y.K.
DRAWN	Y.K.
CHECKED	Y.K.

SUBMITTED	14038
PROJECT MANAGER	R.C.E. NO. DATE
PROJECT ADMINISTRATOR	14884 11-5-79
	R.C.E. NO. DATE

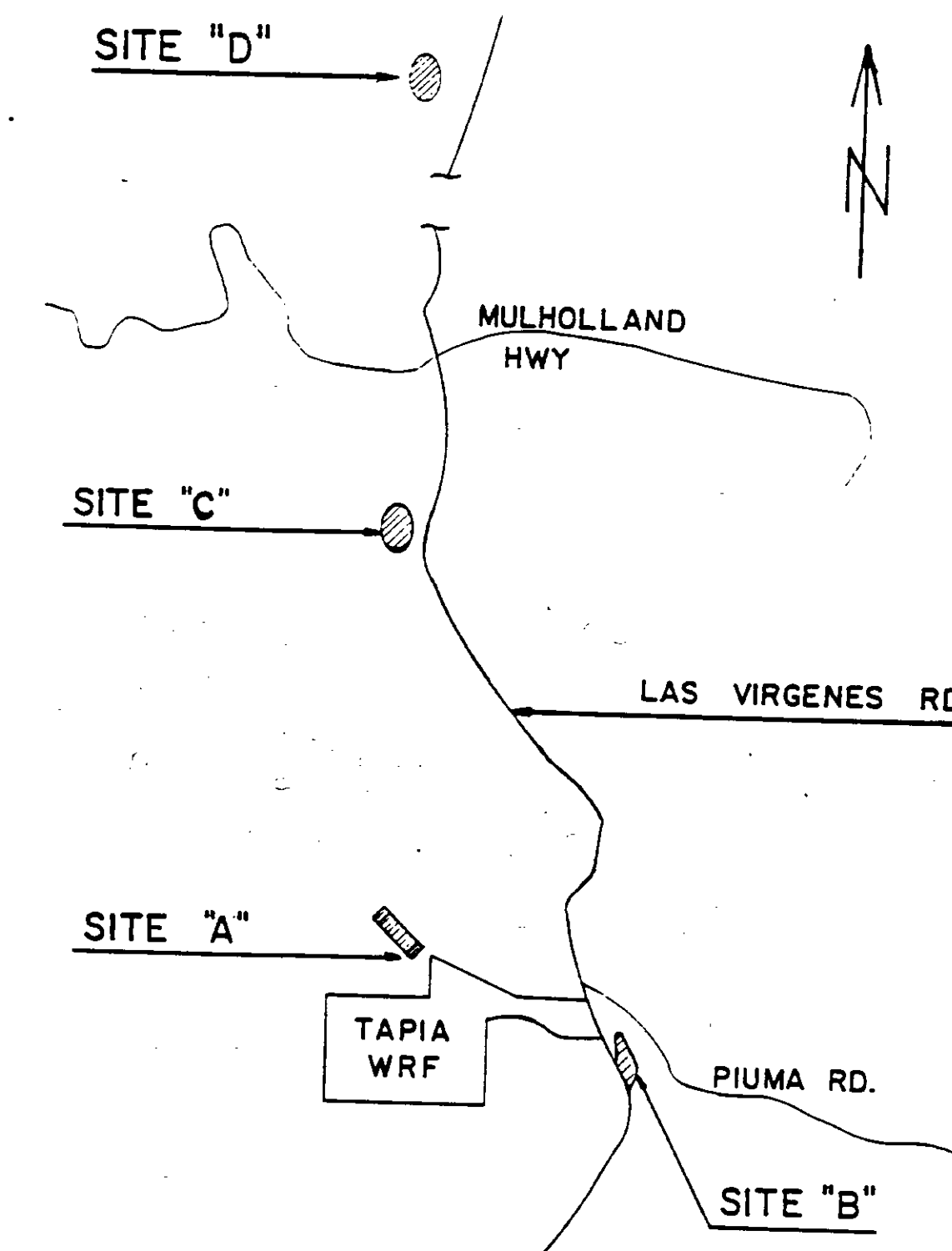
JKE CONSULTING ENGINEERS
A JOINT VENTURE
5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
SITE PLAN, LOCATION AND VICINITY MAPS

SHEET
GI-5



ON SITE SPOIL AREA & STORAGE AREA
 REFERENCE DRAWING: SK-91
 ADENDUM



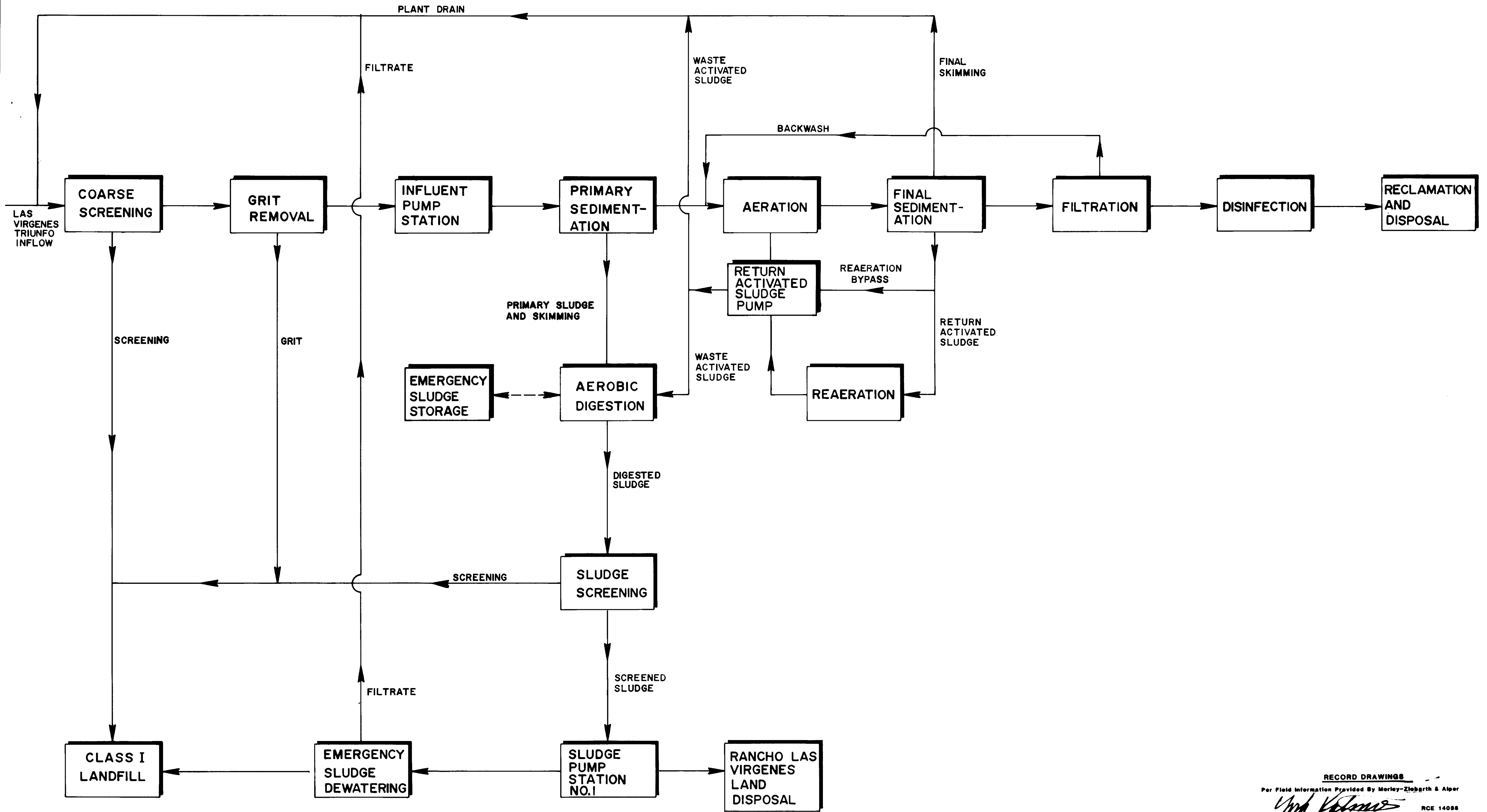
OFF-SITE SPOIL AREA
 REFERENCE DRAWING: SK-92
 ADENDUM

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Ynd Volante
 KATSURA CONSULTING ENGINEERS RCE 14036
 March 1988

03012

SITE PLAN-DETAILS

SHEET
 GI-6



RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziegler & Alper
Y. Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1986

03013

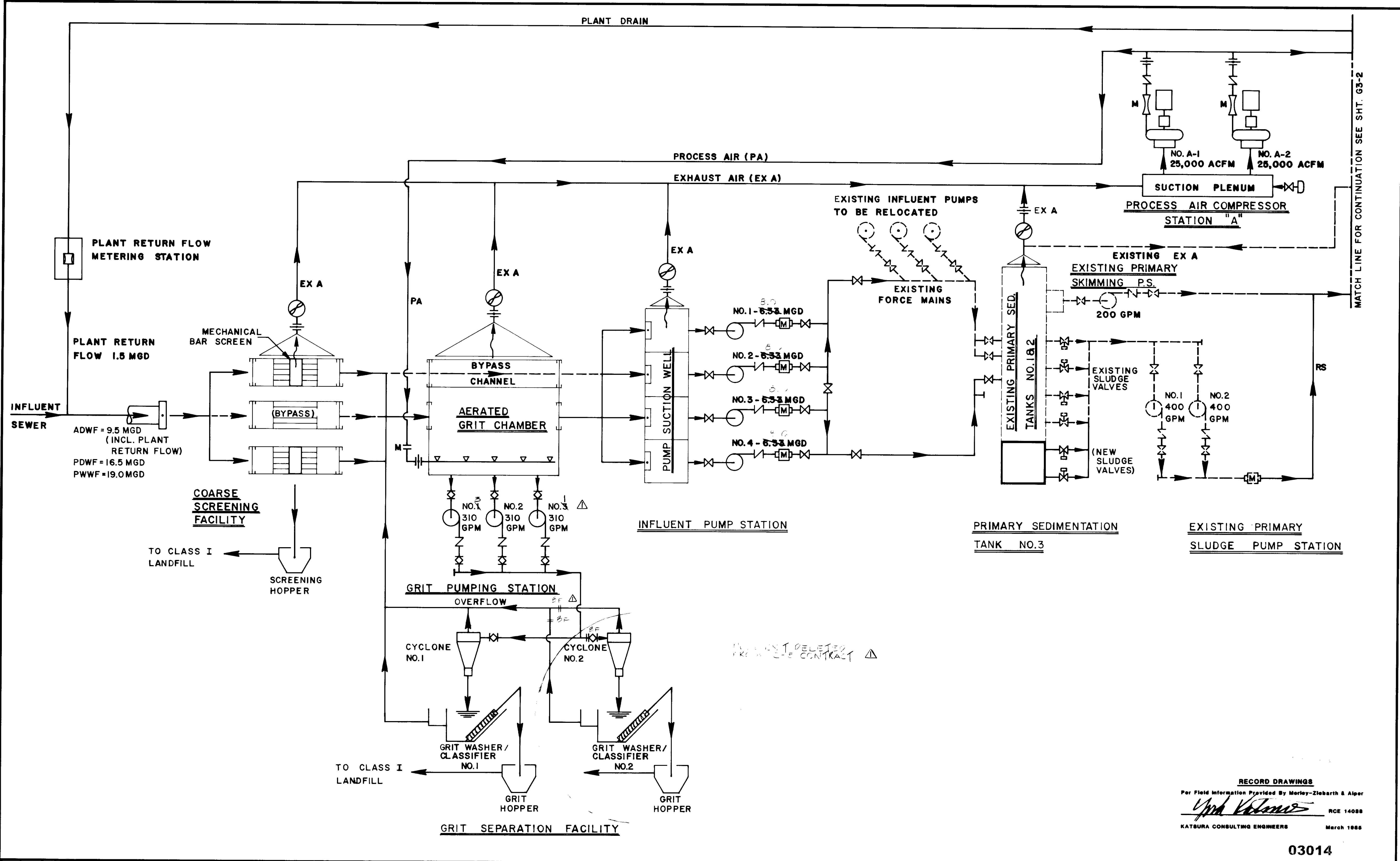
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SCALE :	DESIGNED Y. KATSURA	SUBMITTED <i>Y. Katsura</i>	14038	8-15-79
	DRAWN J. LANG	PROJECT MANAGER <i>J. Lang</i>	R.C.E. NO.	DATE
	CHECKED Y. KATSURA	PROJECT ADMINISTRATOR <i>Y. Katsura</i>	14894	8-15-79
			R.C.E. NO.	DATE

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 A JOINT VENTURE
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 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 GENERAL PLANT FLOW SCHEMATIC

SHEET
 G2-1



RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alger
Yosh Katsura
 KATSURA CONSULTING ENGINEERS RCE 14038
 March 1985

03014

REV	DATE	BY	DESCRIPTION

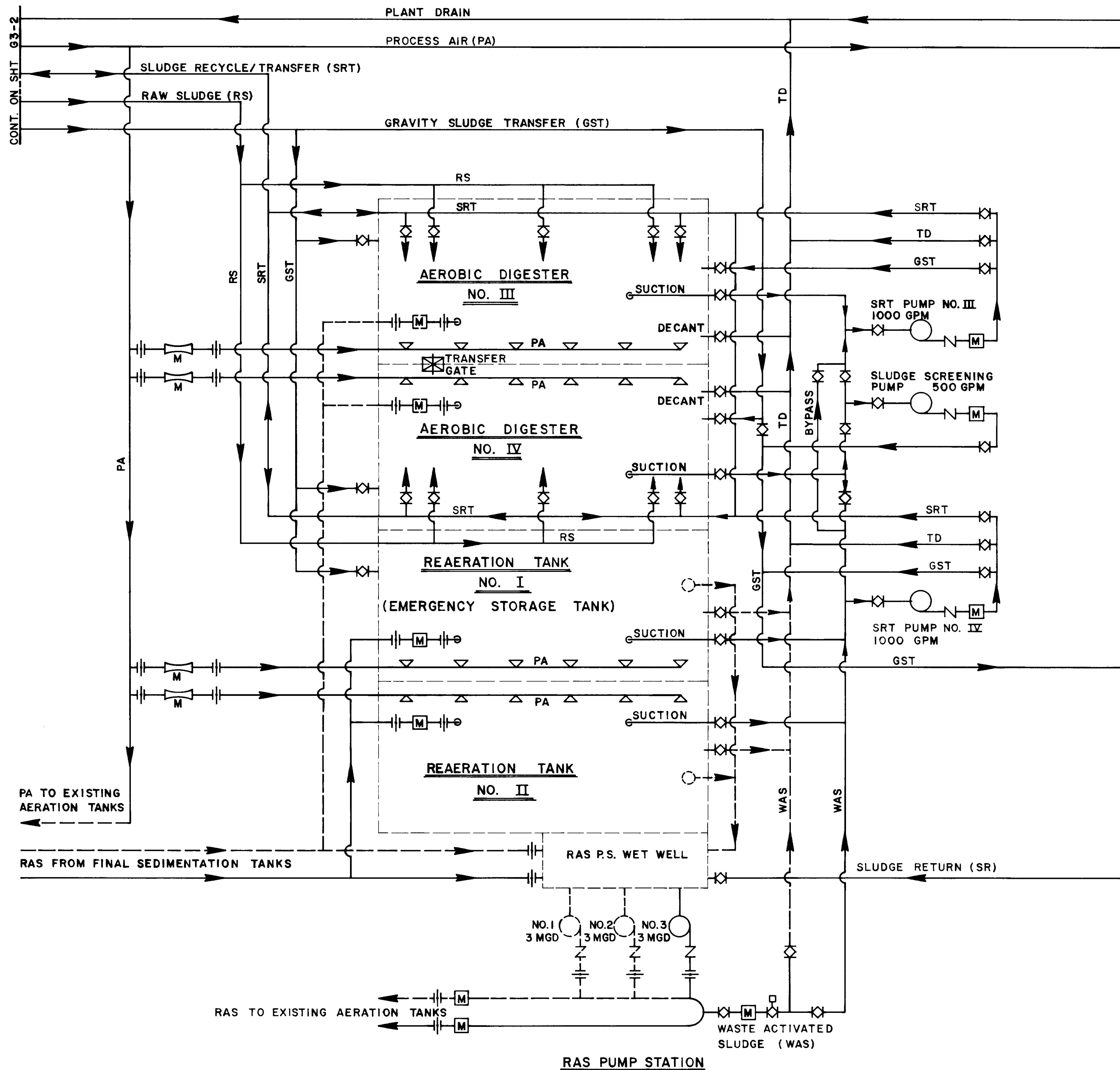
SCALE :	DESIGNED Y. KATSURA	SUBMITTED <i>Yosh Katsura</i>	14038	8-15-79
	DRAWN N. OKONIEWSKI	PROJECT MANAGER	R.C.E. NO.	DATE
	CHECKED Y. KATSURA	PROJECT ADMINISTRATOR	14894	8-15-79
	REV. PER MZA #J.C.E.			

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 (213) 933 9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 PROCESS SCHEMATIC I

SHEET
 G3-1

5/15/85



MATCH LINE FOR CONTINUATION SEE SHEET G3-4

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura
 KATSURA CONSULTING ENGINEERS RCE 14038
 March 1985

03015

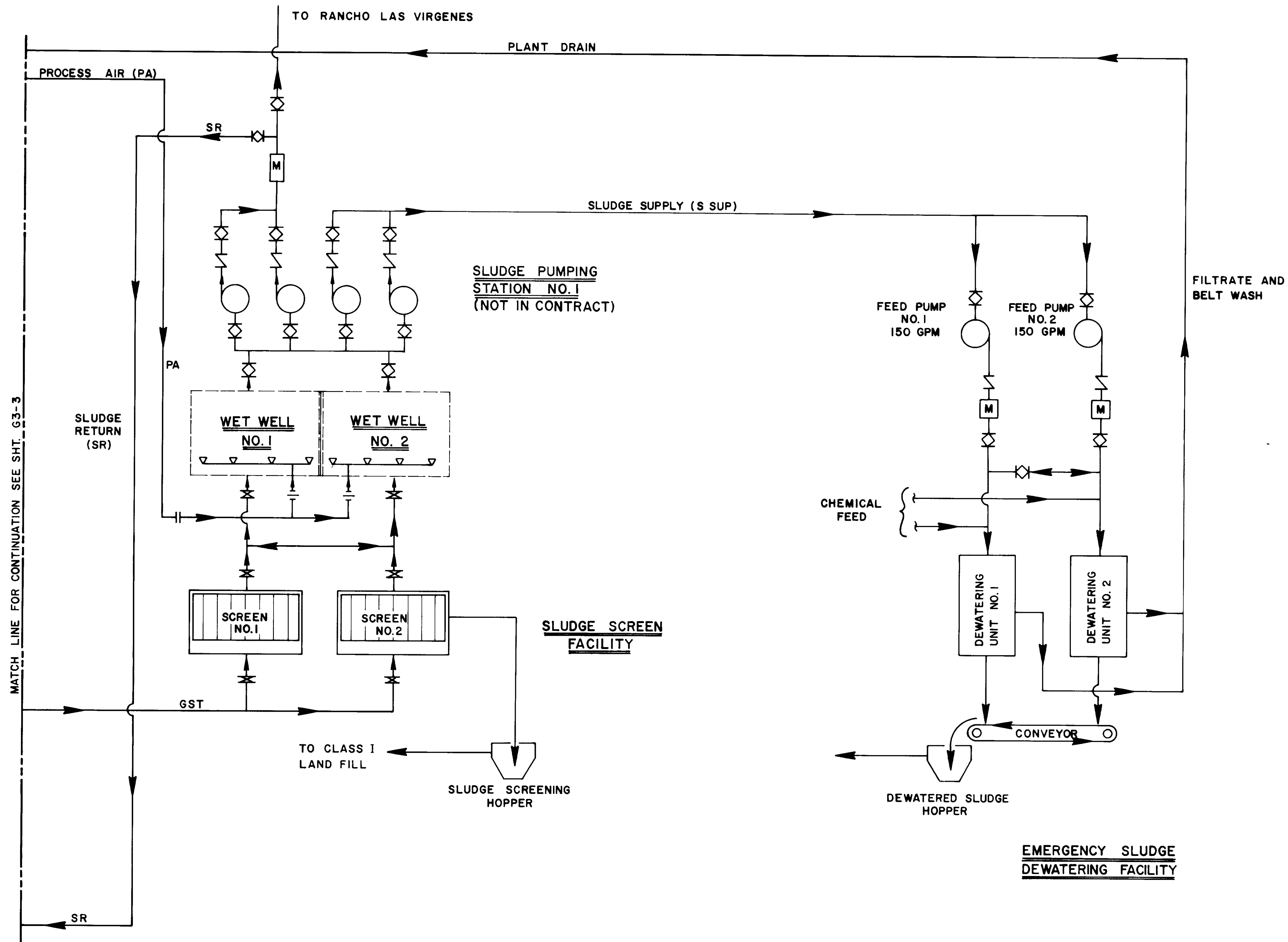
REV	DATE	BY	DESCRIPTION

SCALE :	Y. KATSURA DESIGNED	SUBMITTED <i>Y. Katsura</i>	14038	8-15-79
	N. OKONIEWSKI DRAWN	PROJECT MANAGER	R.C.E. NO.	DATE
	Y. KATSURA CHECKED	PROJECT ADMINISTRATOR	14894	8-15-79

JKE CONSULTING ENGINEERS
 A JOINT VENTURE
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 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 PROCESS SCHEMATIC III

SHEET
 G3-3



MATCH LINE FOR CONTINUATION SEE SHT. G3-3

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

03016

REV	DATE	BY	DESCRIPTION

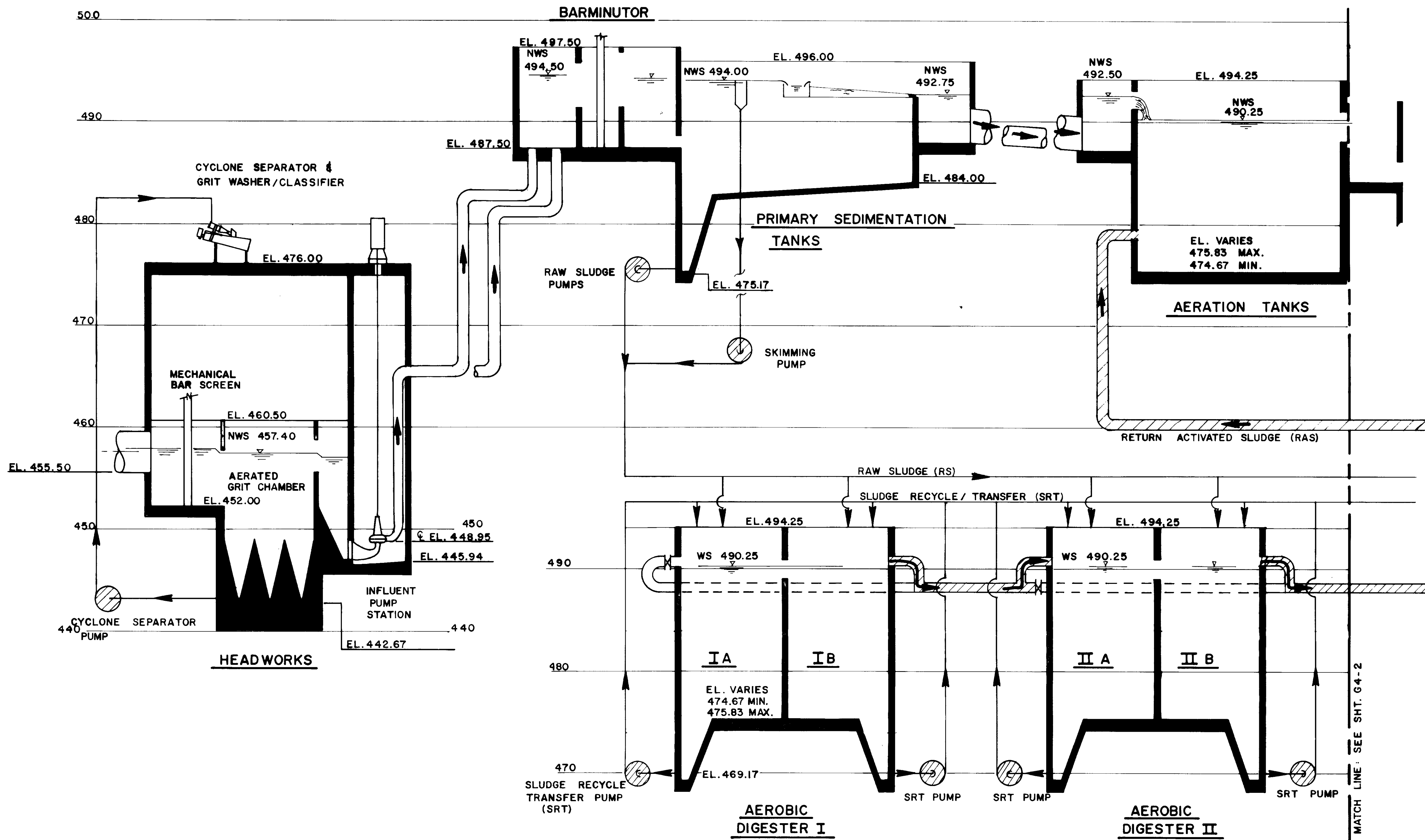
SCALE :	DESIGNED Y. KATSURA	SUBMITTED <i>Y. Katsura</i>	14038	8-15-79
	DRAWN J. LANG	PROJECT MANAGER	R.C.E. NO.	DATE
	CHECKED Y. KATSURA	PROJECT ADMINISTRATOR	14894	8-15-79
			R.C.E. NO.	DATE

JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 PROCES SCHEMATIC II

SHEET
G3-4

5/25/11/85



MATCH LINE - SEE SHT. G4-2

03017

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alger
Y. Katsura
 KATSURA CONSULTING ENGINEERS RCE 14088
 March 1985

NOTE: SEE PROCESS SCHEMATICS FOR RS & SRT ALT.

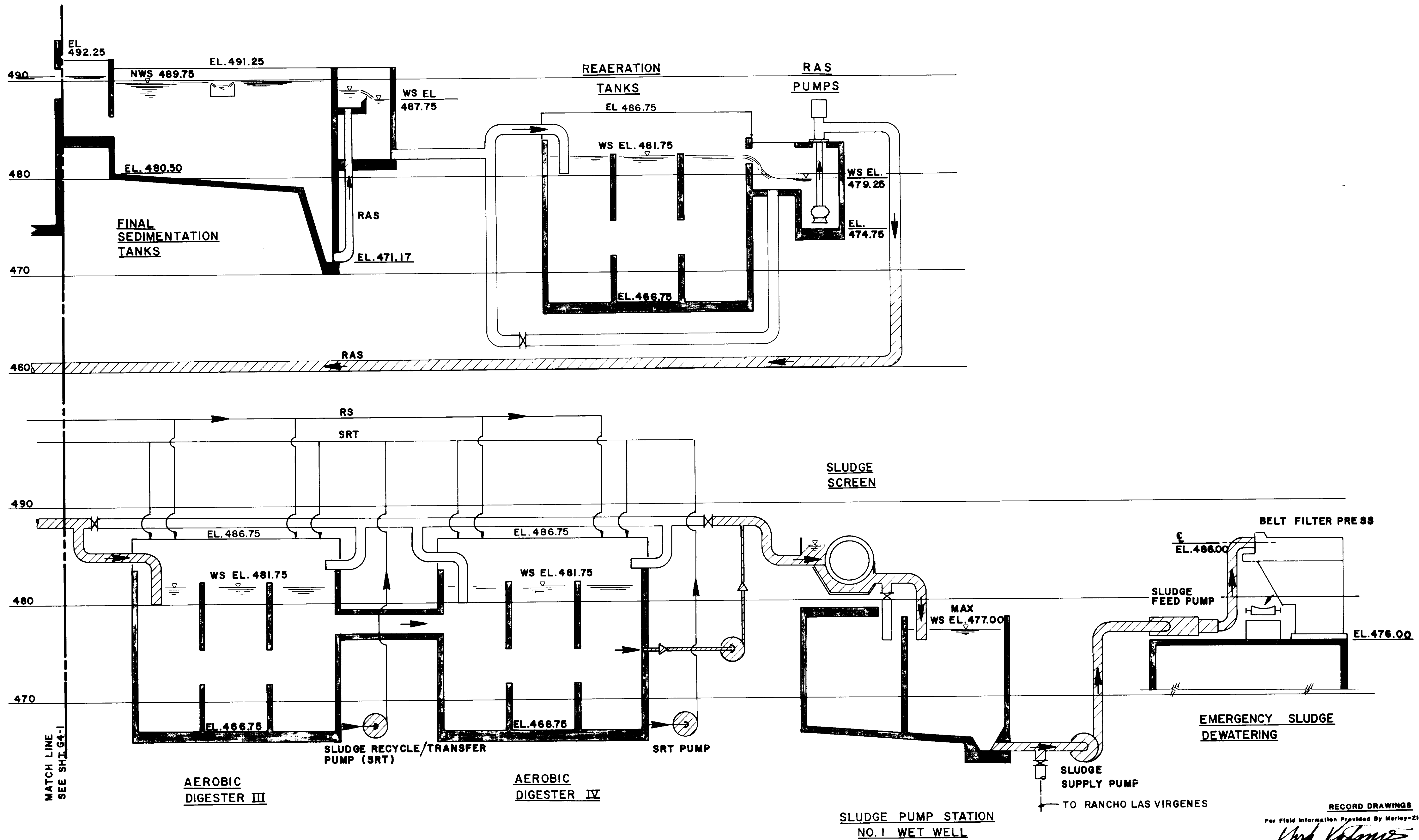
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE :	Y. KATSURA DESIGNED	SUBMITTER <i>Y. Katsura</i>	14038	8-15-79
	G. WINKLER DRAWN	PROJECT MANAGER	R.C.E. NO.	DATE
	Y. KATSURA CHECKED	PROJECT ADMINISTRATOR	14894	8-15-79

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 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-1117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 HYDRAULIC PROFILE I

SHEET
G4-1



RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988
03018

REV	DATE	BY	DESCRIPTION

SCALE :	DESIGNED Y. KATSURA	SUBMITTED <i>Y. Katsura</i>	14038	8-15-79
	J. LANG	PROJECT MANAGER	R.C.E. NO.	DATE
	DRAWN Y. KATSURA		14884	8-15-79
	CHECKED	PROJECT ADMINISTRATOR	R.C.E. NO.	DATE

JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 HYDRAULIC PROFILE II

SHEET
G4-2

KEY TO STRUCTURES

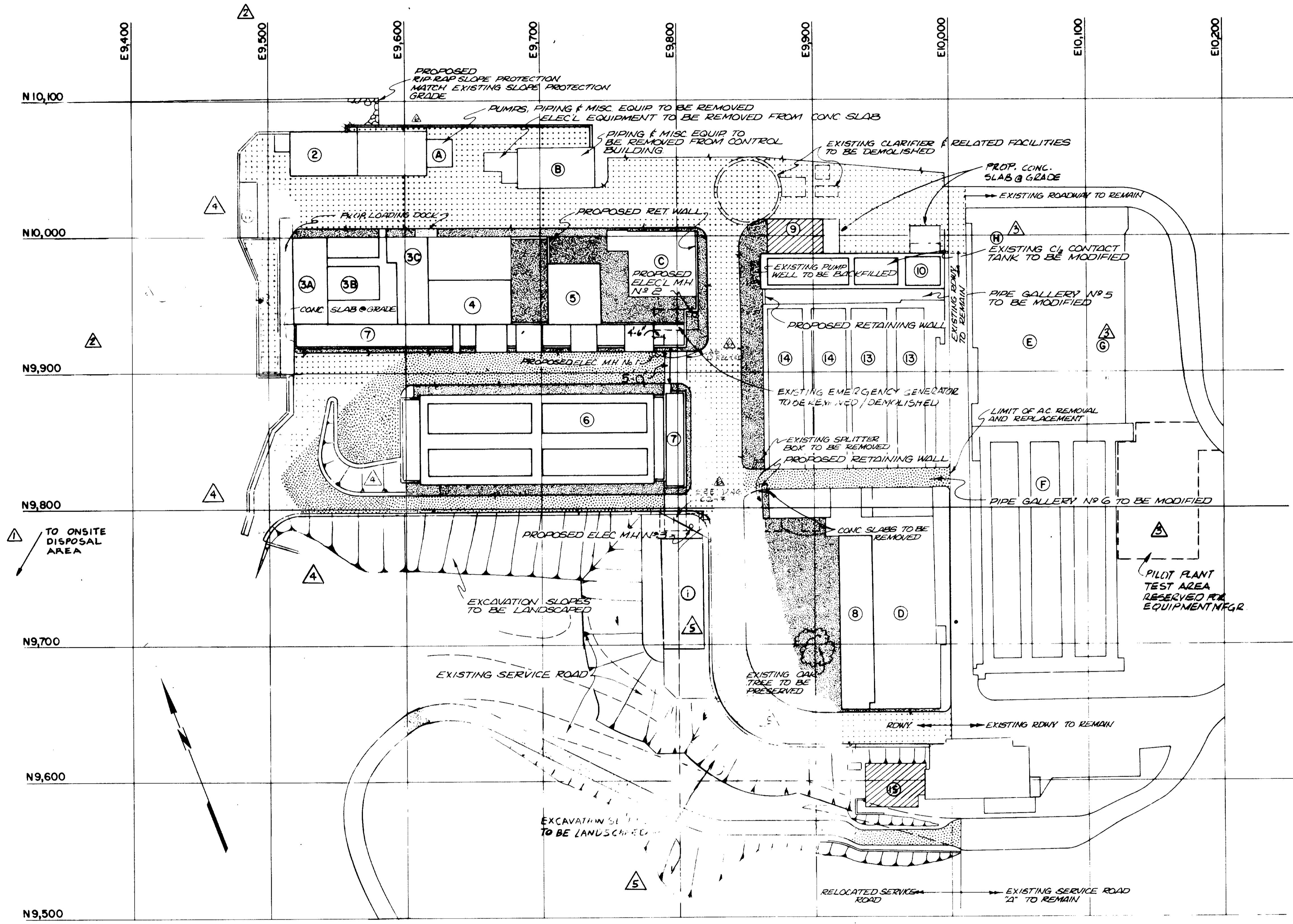
- NEW STRUCTURES**
- ① SHOP AND MAINTENANCE BUILDING (BY OTHERS)
 - ② SLUDGE DEWATERING FACILITY
 - ③ HEADWORKS
 - A) SCREENING & DEGRITTING BUILDING
 - B) GRIT PUMP CHAMBER ROOF
 - C) INFLUENT PUMP BUILDING
 - ④ ELECTRICAL BUILDING
 - ⑤ PROCESS AIR COMPRESSOR BUILDING
 - ⑥ AEROBIC DIGESTERS NO. I-A, I-B, II-A, II-B
 - ⑦ PIPE GALLERY STRUCTURE
 - ⑧ PRIMARY SEDIMENTATION TANK NO. 3
 - ⑨ SLUDGE PUMPING STATION (BY OTHERS)
 - ⑩ SLUDGE SCREENING FACILITY & WET WELL
 - ⑪ ELECTRIC SUBSTATION

- EXISTING STRUCTURES**
- A) INFLUENT PUMP STATION
 - B) CONTROL BUILDING
 - C) SOLIDS CONCENTRATION FACILITY
 - D) PRIMARY SEDIMENTATION TANKS NO. 1 & 2
 - E) FINAL SEDIMENTATION TANKS NO. 1, 2, 3 & 4
 - F) FINAL AERATION TANKS NO. 1, 2 & 3
 - G) CL₂ CONTACT TANK NO. 2
 - H) CL₂ CONTACT TANK NO. 1

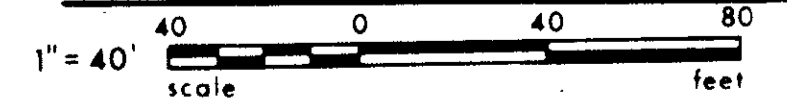
- STRUCTURES TO BE MODIFIED**
- ⑬ REAERATION TANKS NO. 1 & 2
 - ⑭ AEROBIC DIGESTERS NO. III & IV
 - ⑮ ADMINISTRATION BLDG. (By Others)
 - H) CL₂ CONTACT TANK NO. 1

LEGEND

- A - C PAVEMENT-TYPE A, SEE SHT C2-5
- A - C PAVEMENT-TYPE B, SEE SHT C2-5
- LANDSCAPING AREA
- PROPOSED FACILITIES NOT IN CONTRACT
- CONCRETE



GENERAL CONSTRUCTION PLAN



RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

03019

REV	DATE	BY	DESCRIPTION
1	8-13-80	Y.K.	Coast. Comm. REV. PART 1
2	12-21-79	Y.K.	MISC. CLARIFICATIONS
3	12-21-79	Y.K.	OAK TREE PRES. MOD.
4	11-4-79	Y.K.	ADD NOTES

SCALE: 1" = 40'-0"

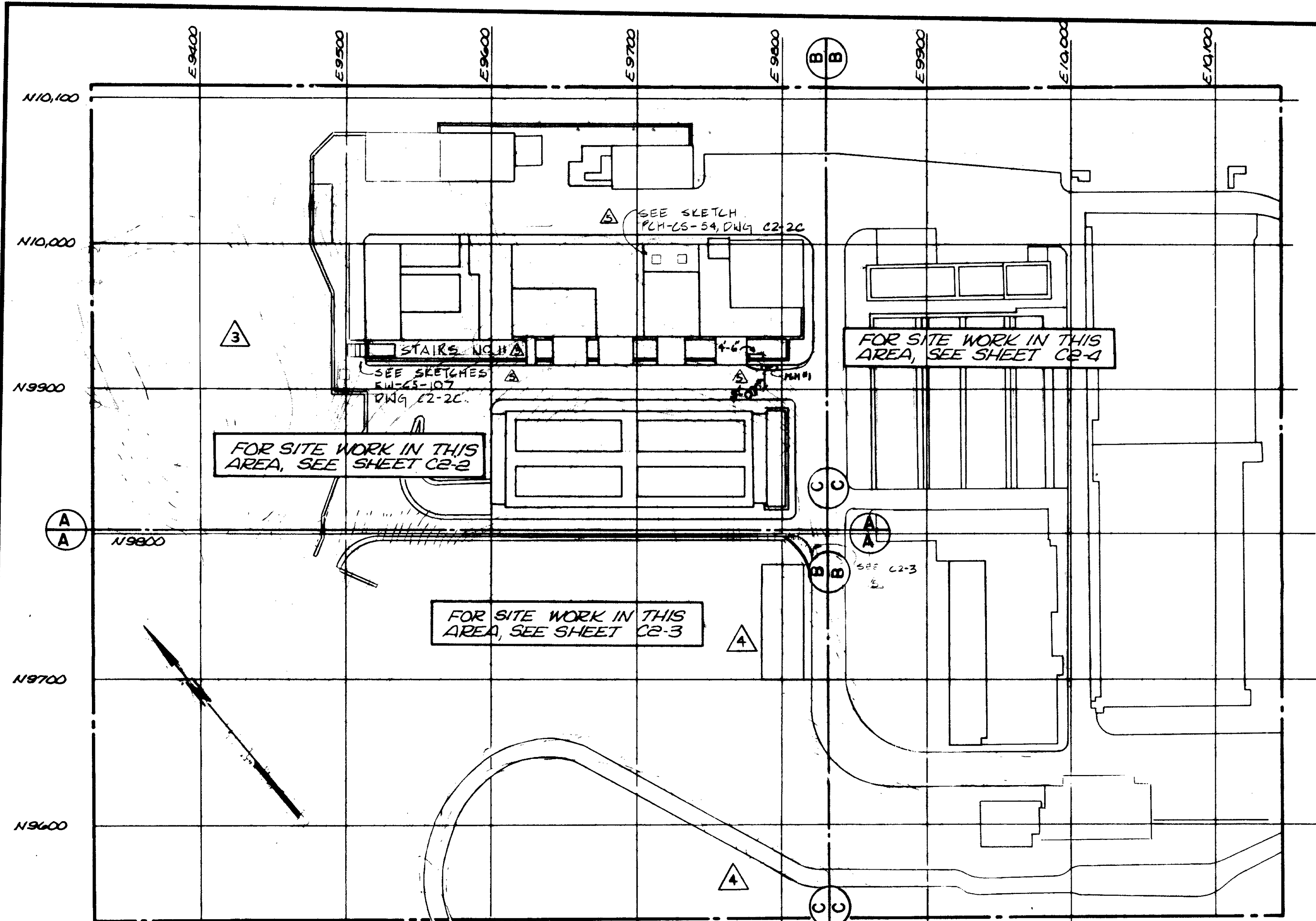
DESIGNED	14038	11-6-81
DRAWN		
CHECKED		

SUBMITTED	14038	11-6-81
PROJECT MANAGER	R.C.E. NO.	DATE
PROJECT ADMINISTRATOR	14894	11-2-81
	R.C.E. NO.	DATE

JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 GENERAL CONSTRUCTION PLAN

SHEET
 CI-1



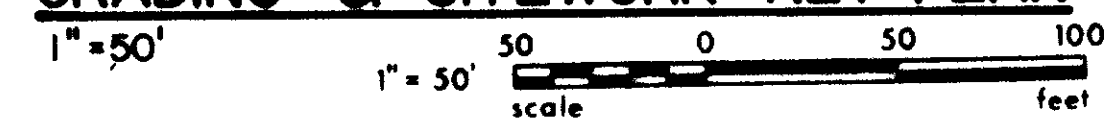
LEGEND & SYMBOLS

- 400 EXISTING ELEVATION CONTOUR
- 400 ELEVATION CONTOUR ON PAVED AREAS (NEW)
- - - 400 ELEVATION CONTOUR ON UNPAVED AREAS (NEW)
- 400 SPOT ELEVATION (NEW)
- - - EXISTING CHAIN LINK FENCE
- - - NEW CHAIN LINK FENCE
- FLOW LINE
- ▒ SLOPE AREA (CUT OR FILL)
- ▒ GUARDRAILING
- ⊙ STRUCTURE LOCATION COORDINATE AT INDICATED COLUMN LINES
- EXISTING POWER POLE
- A:B SLOPE RATIO (A-HORIZ, B-VERT)
- ▒ NEW RIP-RAP SLOPE PROTECTION
- ▒ CONCRETE
- ▒ A.C. PAVEMENT
- ⊕ REFERENCE MARK

ABBREVIATIONS

- A.C.P. ASBESTOS CONCRETE PIPE
- A-C, AC. ASPHALT CONCRETE
- B.C. BEGIN CURVE
- C.L. CHAIN LINK
- CONC. CONCRETE
- E.C. END CURVE
- EL. ELEVATION
- E.O.P. EDGE OF PAVEMENT
- EXIST. EXISTING
- FF FINISHED FLOOR
- FL FLOW LINE
- F.W. FACE OF WALL
- MIN. MINIMUM
- Nr, No. NUMBER
- P. PROPERTY LINE
- P.V.M.T. PAVEMENT
- R. RADIUS
- SHT. SHEET
- T.O.W. TOP OF WALL
- TYP. TYPICAL

GRADING & SITWORK KEY PLAN



GENERAL NOTES

1. THE LOCATION OF ALL EXISTING FACILITIES, STRUCTURES, SITE IMPROVEMENTS AND RELATED APPURTENANCES ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION BY CONTRACTOR.
2. SEE SHEET C1-1 FOR GENERAL SURFACE TREATMENT & PAVEMENT TYPE.
3. FOR EXCAVATION ADJACENT TO TREE, SEE SHEET C6-6 AND APPROPRIATE LANDSCAPING SPECIFICATIONS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT PRIOR TO GRADING & EXCAVATION OPERATIONS WHICH MAY DAMAGE ROOT STRUCTURE.
4. REFER TO SPECIFICATIONS FOR SEQUENCING OF ALL EVENTS RELATED TO STRUCTURES & FACILITIES WHICH ARE TO BE REMOVED, DEMOLISHED OR ABANDONED.
5. ALL EXISTING IRRIGATION LINES ARE TO BE REMOVED AS NECESSARY FOR EXISTING & NEW CONSTRUCTION. REMOVED PIPING BECOMES THE PROPERTY OF THE DISTRICT. PLUG EXISTING LINES AS DIRECTED BY ENGINEER. FIELD VERIFY LOCATIONS SHOWN ON SITE PLAN.
6. SEE SITWORK PLAN A, SHT. C-7 FOR REMOVAL OF EXISTING SITWORK, PAVEMENT, ETC.

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

03020



REV	DATE	BY	DESCRIPTION
1	8-13-80	Y.K.	COAST COMM. REV. PART 2
2	8-13-80	Y.K.	COAST COMM. REV. PART 1
3	12-21-79	Y.K.	CLARIFICATION
4	12-21-79	Y.K.	OAKTREE PRES. MOD.

SCALE: 1" = 50'-0"

DESIGNED: JAH
 DRAWN: JK/ta
 CHECKED:

SUBMITTED: *Yuh Katsura* 14038 11-9-79
 PROJECT MANAGER R.C.E. NO. DATE
 PROJECT ADMINISTRATOR: *Yuh Katsura* 14884 11-5-79
 PROJECT ADMINISTRATOR R.C.E. NO. DATE

JKK CONSULTING ENGINEERS
 A JOINT VENTURE
 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 833-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 OFFICIAL RECORD DRAWING NOT PLAS

SHEET C2-1

NOTE:
REMOVE EXISTING RIPRAP AS DIRECTED BY THE ENGINEER. INSTALL PROPOSED RIPRAP SLOPE PROTECTION

POINT	APPROXIMATE COORDINATE	APPROX. T.O.W. ELEVATION
W1	N10,074.00	EL 480.0
W2	E9,493.25	EL 480.0
W3	N10,060.00	EL 482.00
W4	E9,479.25	EL 483.00
W5	N9,968.00	EL 485.00
W6	E9,492.25	EL 485.00
W7	N9,899.00	EL 485.00
W8	E9,492.25	EL 485.00
W9	N9,899.00	EL 485.00
W10	E9,514.50	EL 485.00
W11	N9,871.50	EL 487.00
W12	E9,514.50	EL 485.00
W13	N9,859.00	EL 485.00
W14	E9,502.00	EL 490.00
W15	N9,813.50	EL 490.00
W16	E9,485.25	EL 490.00
W17	N9,796.50	EL 490.00
W18	E9,485.25	EL 490.00
W19	N9,783.50	EL 490.00
W20	E9,480.50	EL 490.00

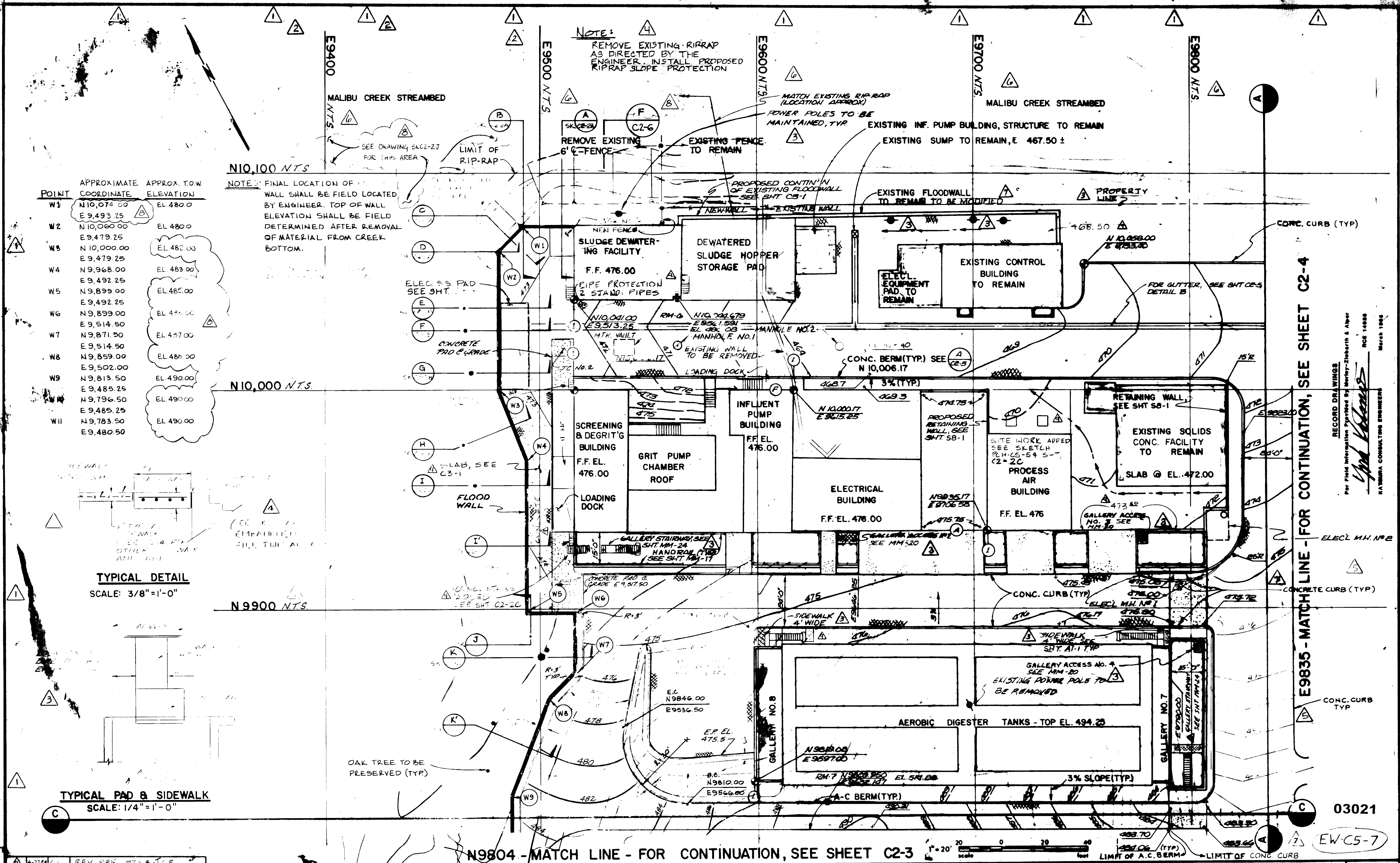
NOTE: FINAL LOCATION OF WALL SHALL BE FIELD LOCATED BY ENGINEER. TOP OF WALL ELEVATION SHALL BE FIELD DETERMINED AFTER REMOVAL OF MATERIAL FROM CREEK BOTTOM.

N10,100 N.T.S.

N9,900 N.T.S.

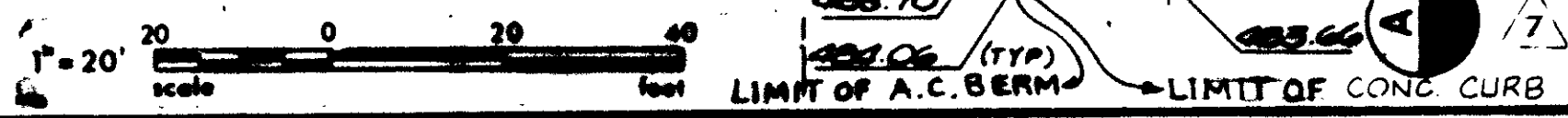
TYPICAL DETAIL
SCALE: 3/8" = 1'-0"

TYPICAL PAD & SIDEWALK
SCALE: 1/4" = 1'-0"



N9804 - MATCH LINE - FOR CONTINUATION, SEE SHEET C2-3

E9835 - MATCH LINE - FOR CONTINUATION, SEE SHEET C2-4



REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
1	6-27-84	C.L.	REV PER MZA & J.C.E.	1	7-25-84	Y.K.	COAST COMM. REV. PART 1
2	8-13-84	RE	COAST COMM. REV. PART 1	2	8-27-84	Y.K.	CLARIFICATION
3	8-13-84	Y.K.	SYSTEM & GEN'L REV.	3	8-27-84	Y.K.	OAK TREE PRESERV. MOD.
4	8-13-84	Y.K.	COAST. COMM. REV. PART 2	4	11-4-79	Y.K.	GENERAL REVISION ON ELEV. SLAB, ROOM

SCALE: 1" = 20'-0"	DESIGNED: J.K.	CHECKED: RE / V. KATSURA
SUBMITTED: 14038	PROJECT MANAGER: 14038	R.C.E. NO. DATE: 11-4-79
PROJECT ADMINISTRATOR: 14884	R.C.E. NO. DATE: 11-4-79	

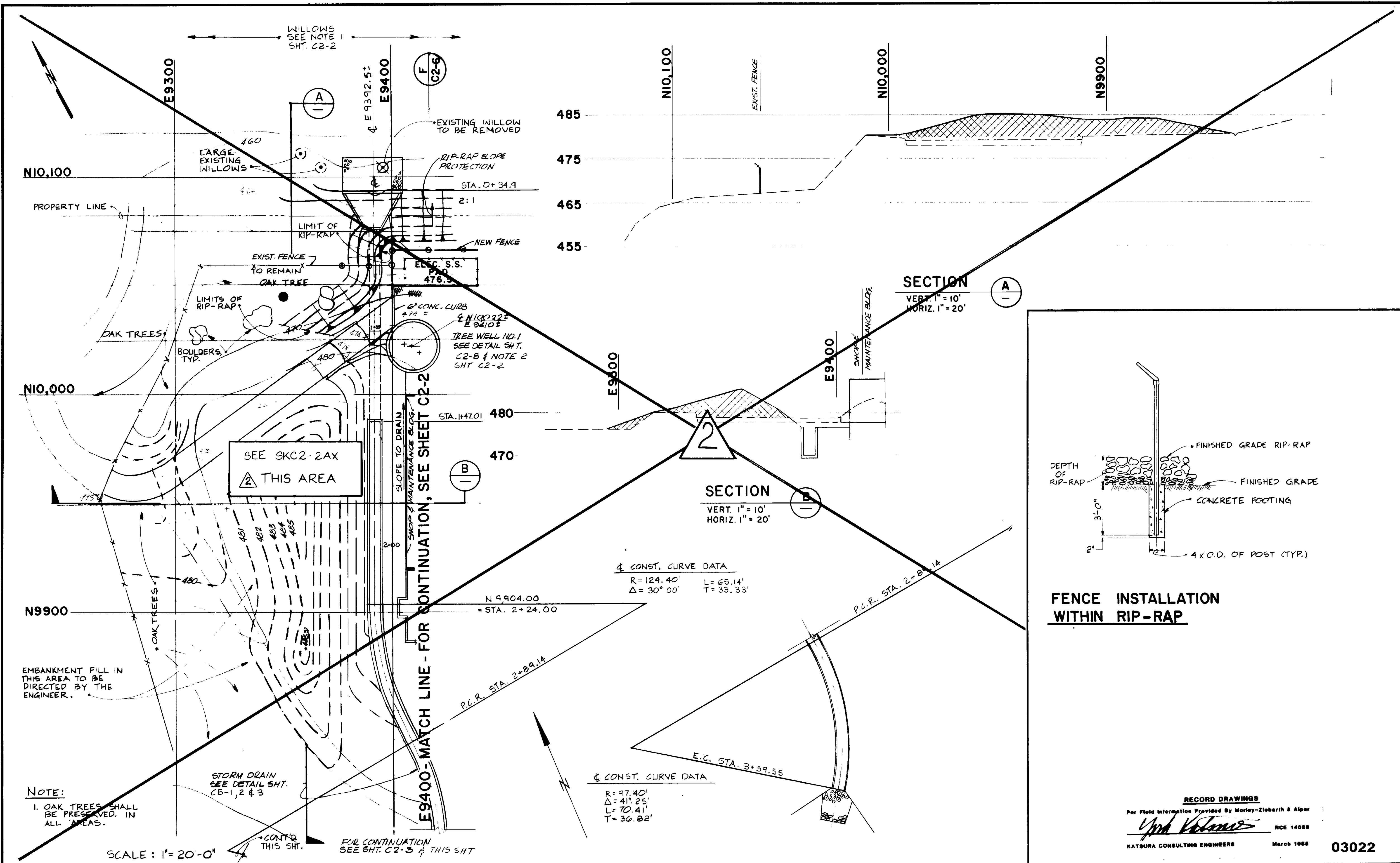
JK CONSULTING ENGINEERS
A JOINT VENTURE
8881 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 888-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.

SHEET C2-2

RECORD DRAWINGS
Per field information furnished by Morley-Zimbarth & Alper
March 1988
RCE 14038
KATSUMA CONSULTING ENGINEERS

03021
EW-C5-7



NOTE:
 1. OAK TREES SHALL BE PRESERVED IN ALL AREAS.

STORM DRAIN
 SEE DETAIL SHT. C5-1, 2 & 3

SEE SKC2-2AX
 THIS AREA

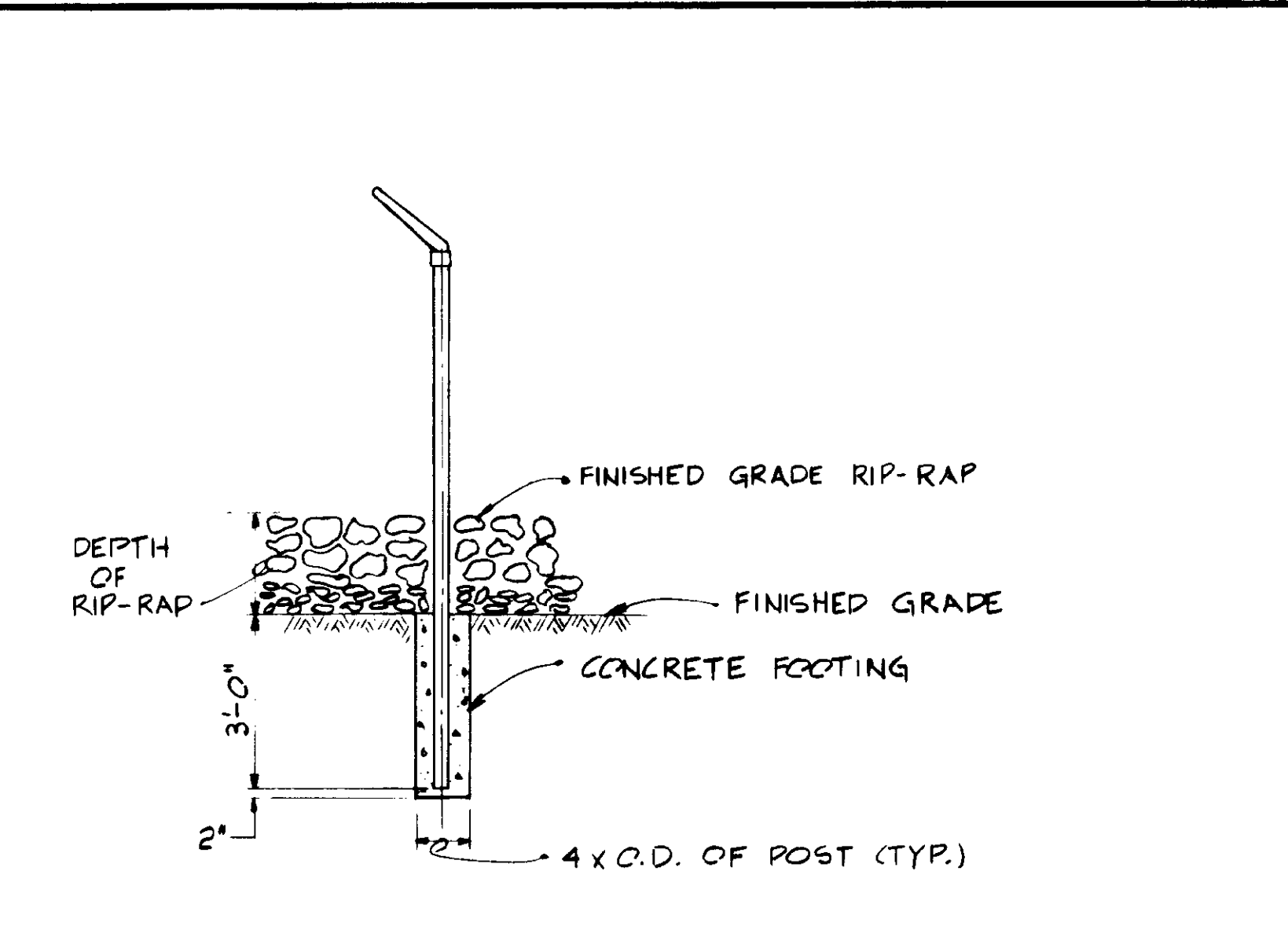
EMBANKMENT FILL IN THIS AREA TO BE DIRECTED BY THE ENGINEER.

SCALE: 1" = 20'-0"

FOR CONTINUATION SEE SHT. C2-3 & THIS SHT

CONST. CURVE DATA
 R = 124.40' L = 65.14'
 Δ = 30° 00' T = 33.33'

CONST. CURVE DATA
 R = 97.40' L = 70.41'
 Δ = 41° 25' T = 36.82'



FENCE INSTALLATION WITHIN RIP-RAP

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yud Katsura RCE 14088
 KATSURA CONSULTING ENGINEERS March 1988

03022

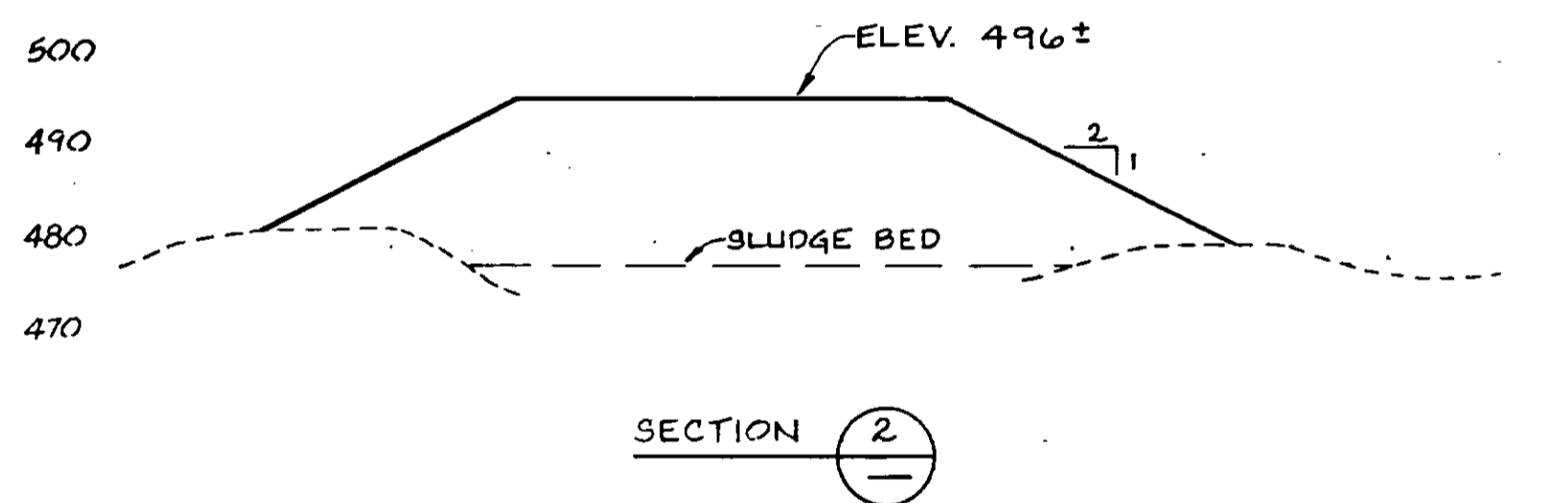
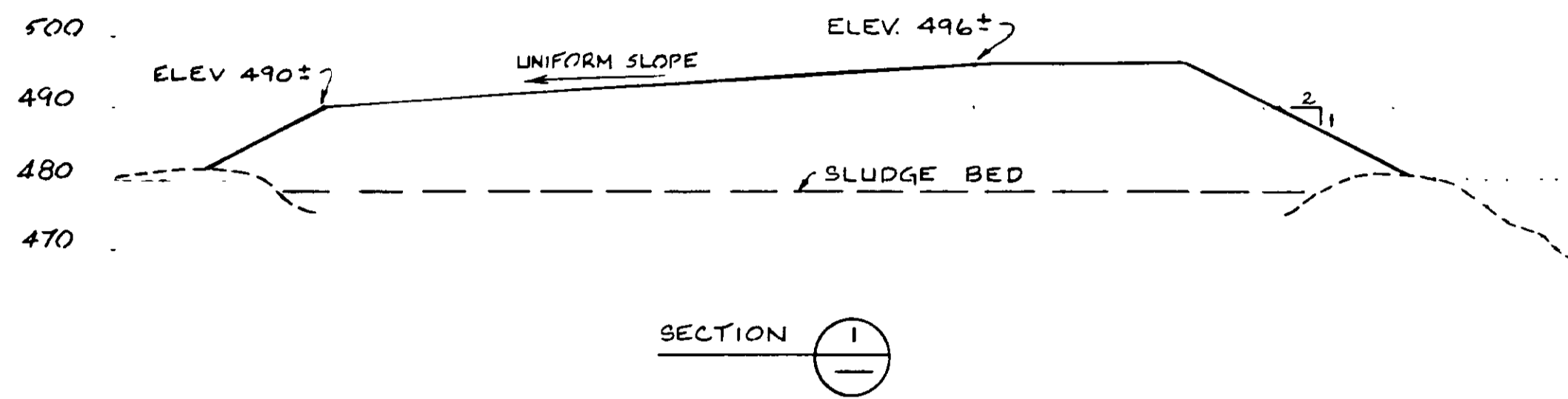
REV	DATE	BY	DESCRIPTION

SCALE: AS NOTED	R.E./C.S. DESIGNED C. SENIVONGS	SUBMITTED <i>Yud Katsura</i> 14038 12-19-79 PROJECT MANAGER R.C.E. NO. DATE
	DRAWN R.E. / Y. KATSURA	CHECKED <i>Yud Katsura</i> 14894 12-19-79 PROJECT ADMINISTRATOR R.C.E. NO. DATE

JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

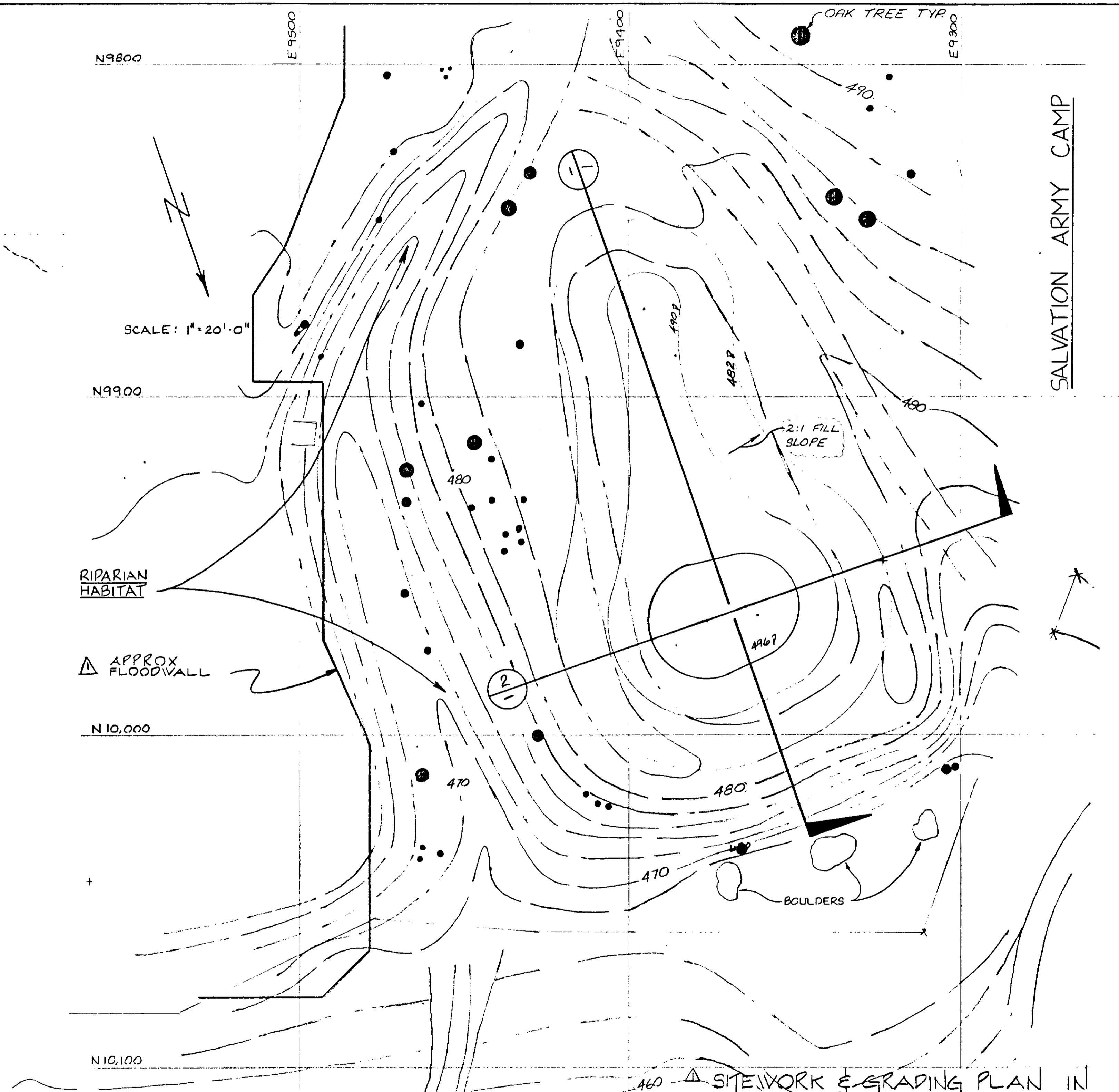
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 SITESWORK AND GRADING PLAN 1A

SHEET
C2-2A



NOTES

1. EMBANKMENT LIMITS AND ELEVATIONS ARE APPROXIMATE AND SHALL BE FIELD DETERMINED BY THE ENGINEER.
2. TOPOGRAPHIC DATA SHOWN REFLECTS CONDITIONS PRIOR TO 1980 STORM ARE APPROXIMATE.
3. OAK TREES SHALL BE PRESERVED WHETHER SHOWN OR NOT.



MALIBU CREEK

REV	DATE	BY	DESCRIPTION	DATE: 7-28-80	REVISION SKETCH	C2-2AX
1				BY: Y.K.	EMBANKMENT	

03023

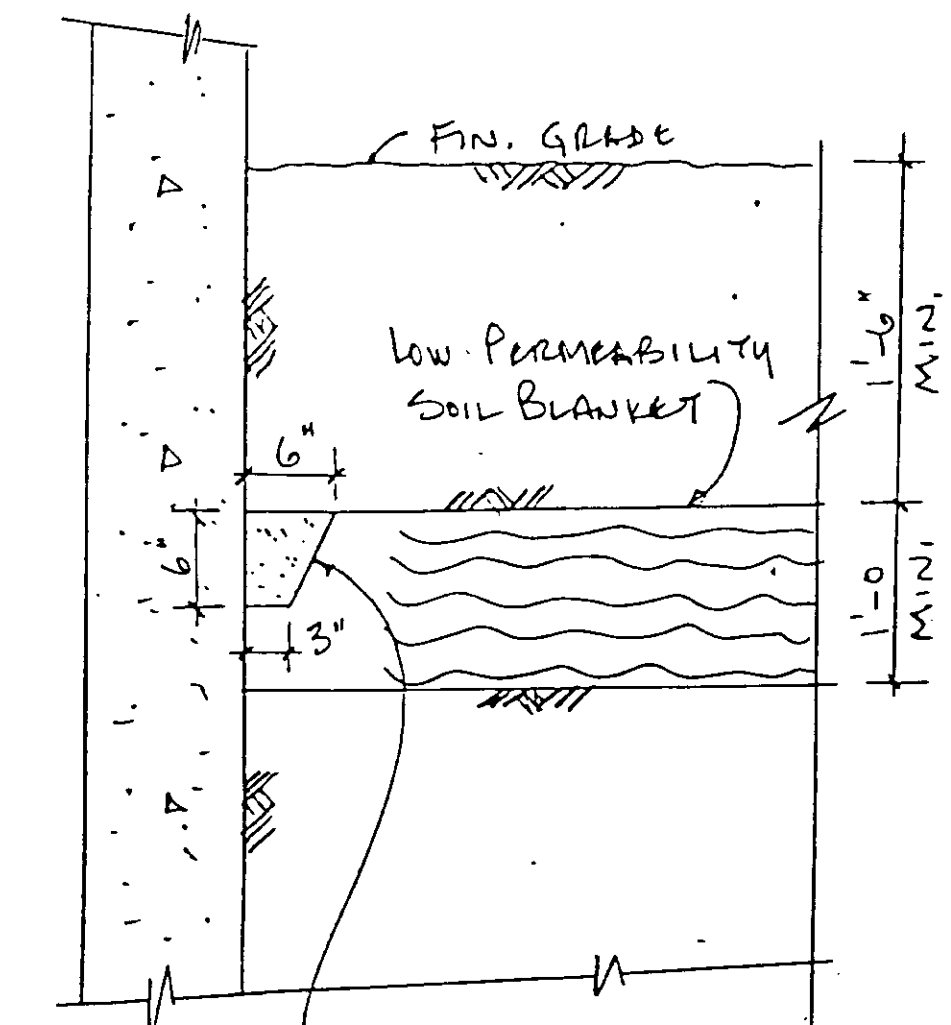
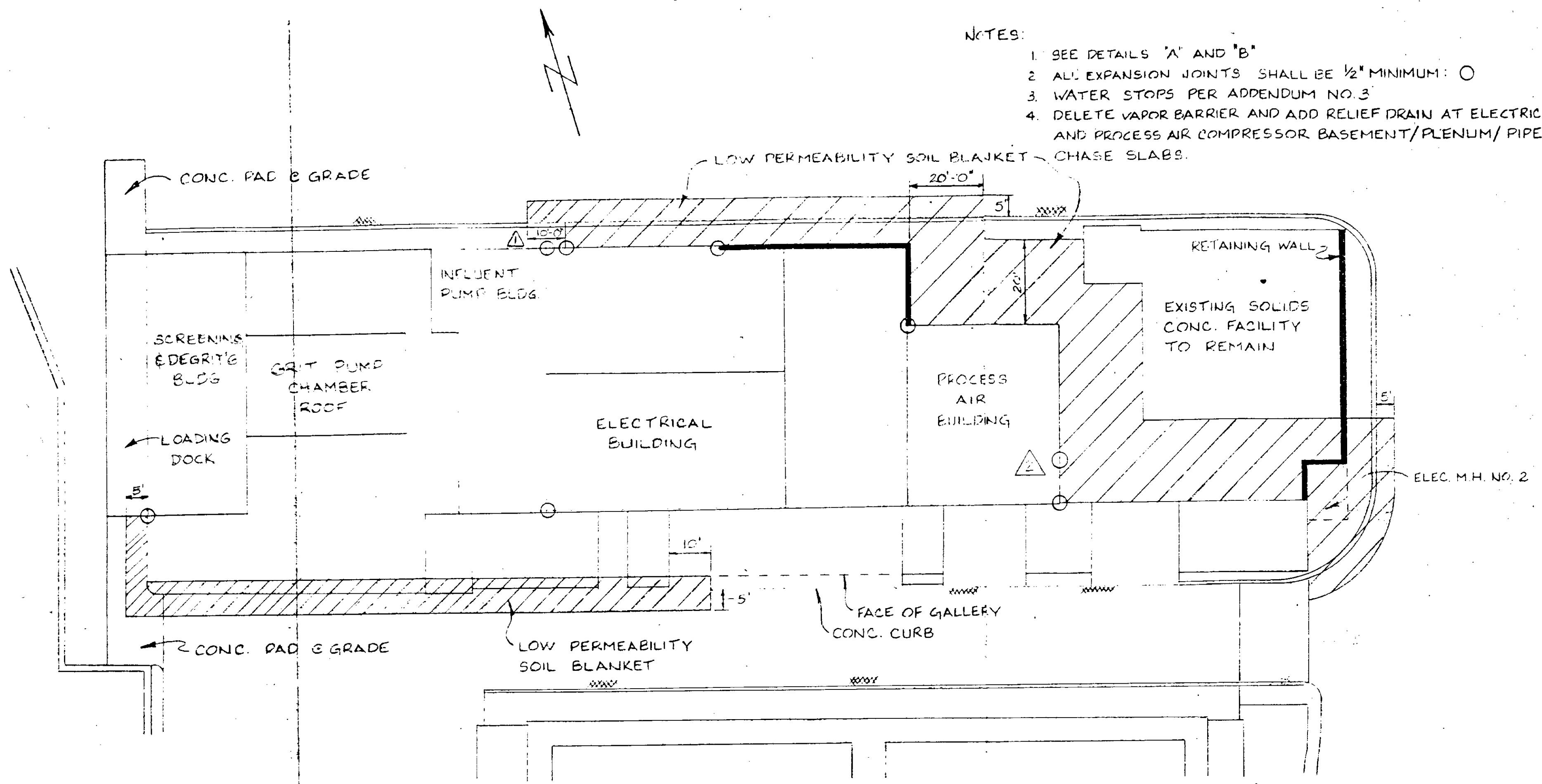
RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

Ynd Katsura
KATSURA CONSULTING ENGINEERS RCE 14038
March 1988

NOTE: SEE LETTERS JORDAN/AVENY TO
KATSURA ASSOC. : a) 12-15-81
b) THIS DATE

- NOTES:
1. SEE DETAILS "A" AND "B"
 2. ALL EXPANSION JOINTS SHALL BE 1/2" MINIMUM: O
 3. WATER STOPS PER ADDENDUM NO. 3
 4. DELETE VAPOR BARRIER AND ADD RELIEF DRAIN AT ELECTRICAL AND PROCESS AIR COMPRESSOR BASEMENT/PLENUM/PIPE CHASE SLABS.



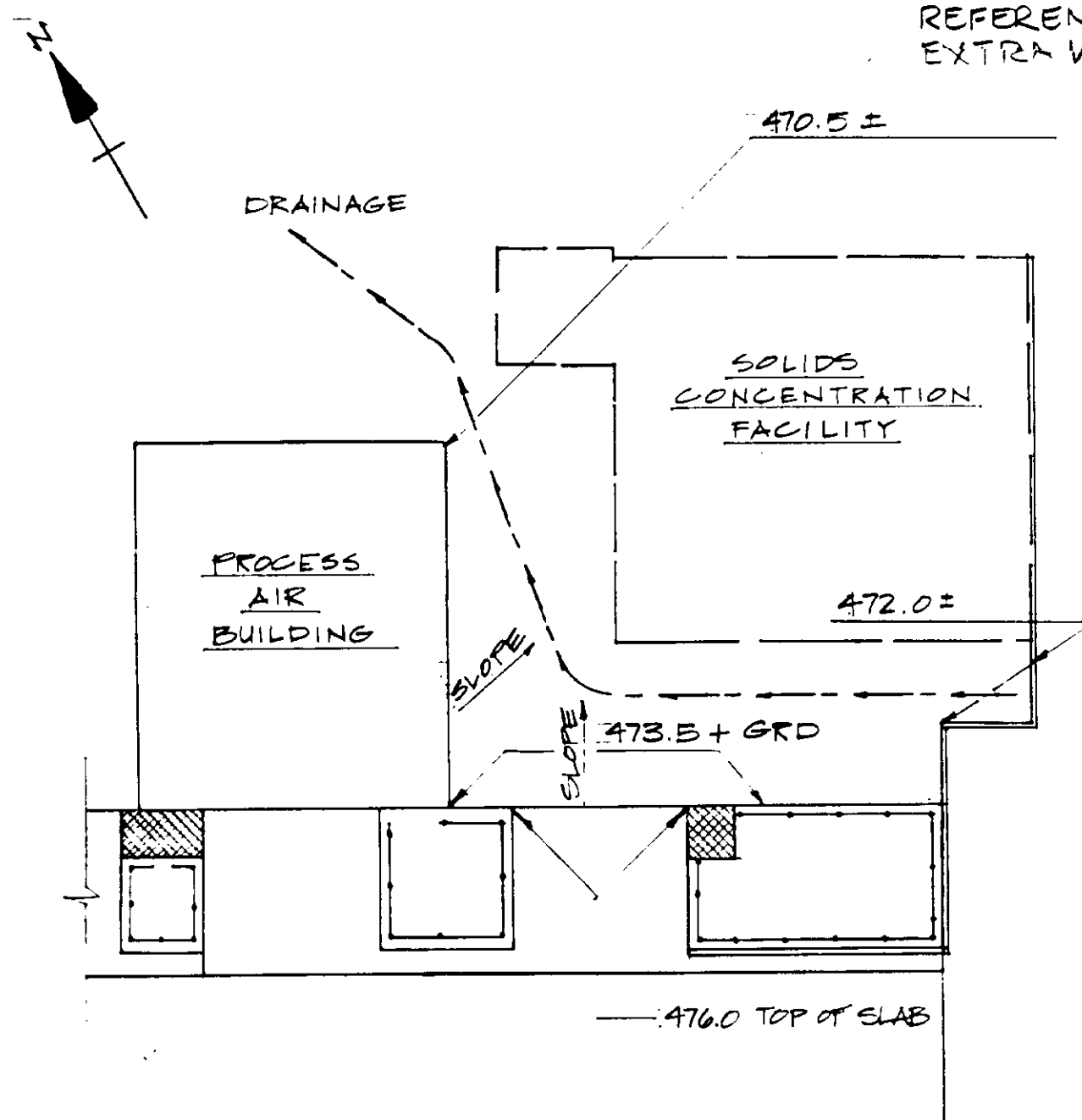
DETAIL "A" Rev.
NO SCALE
(REPLACES DET. "A"
OF 12-15-80)

CONTINUOUS SEAM OF
BENTONITE CLAY (VOLCLAY
OR EQUAL) PLACED DRY -
AT ALL LOCATIONS WHERE
LOW PERMEABILITY BLANKET
ABUTS STRUCTURAL WALL.

REFERENCE DRAWING :
EXTRA WORK : EW-C5-14

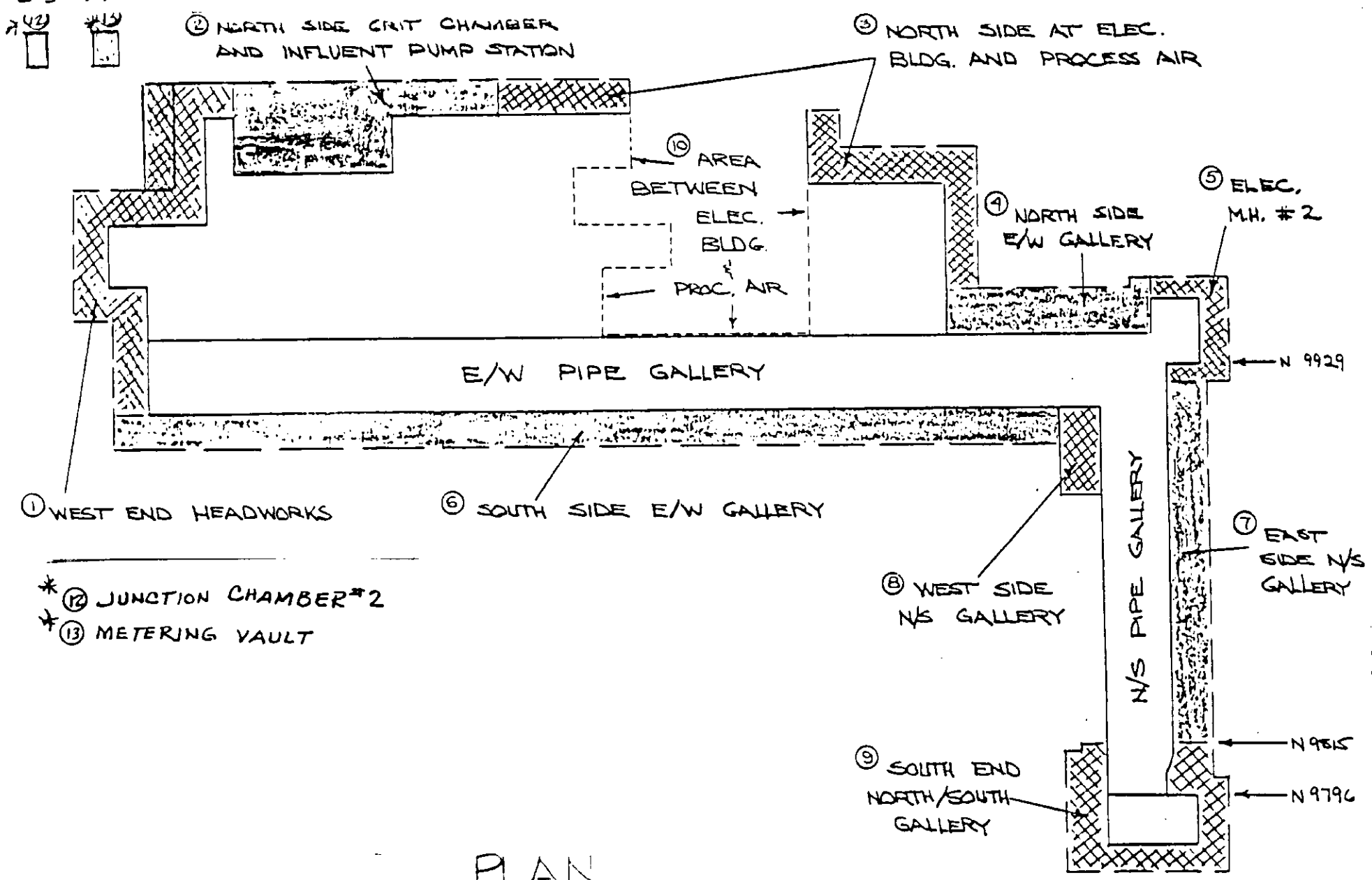
NOTE: SEE LETTER JORDAN/AVENY TO
KATSURA ASSOC. THIS DATE

PLAN
STRUCTURAL UPLIFT PROTECTION
REFERENCE DRAWING: SK-DCL-JKS-G
EXTRA WORK: EW-C5-14

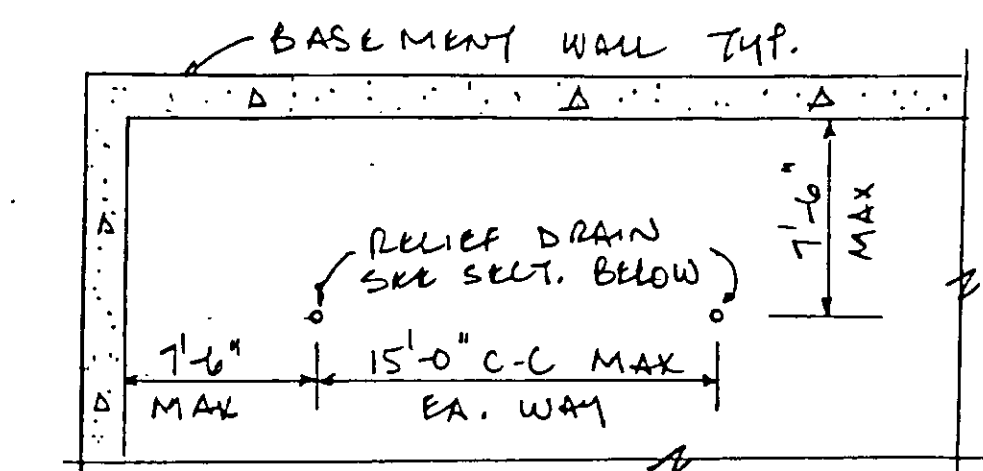


GRADING REVISION
EAST OF P.A.C.
SCALE: 1" = 20'

REFERENCE DRAWING: SK-D
PLAN CHANGE : PH-C5-83

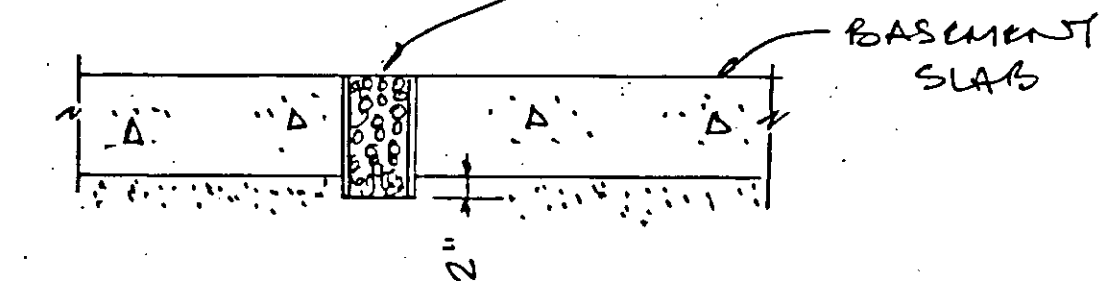


PLAN
REFERENCE DRAWING :
EXTRA WORK : EW-C5-10



PARTIAL PLAN (Typ.)
NO SCALE

4" φ CONC. OR V.C. PILE - VERIFY
FREE CONNECTION TO SUBGRADE
AFTER PLACING CONCRETE -
FILL WITH P&A GRAVEL



SECTION - Relief Drain
NO SCALE

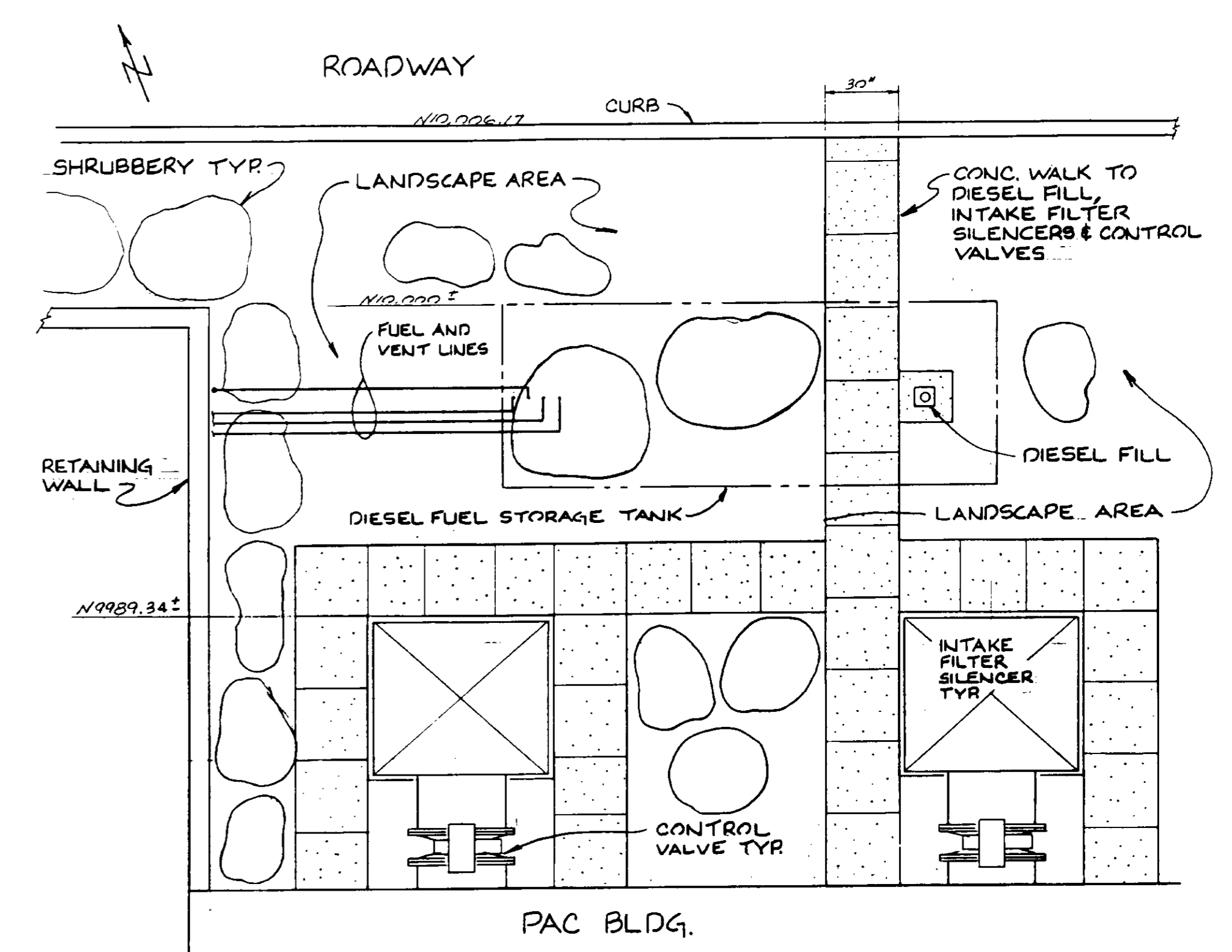
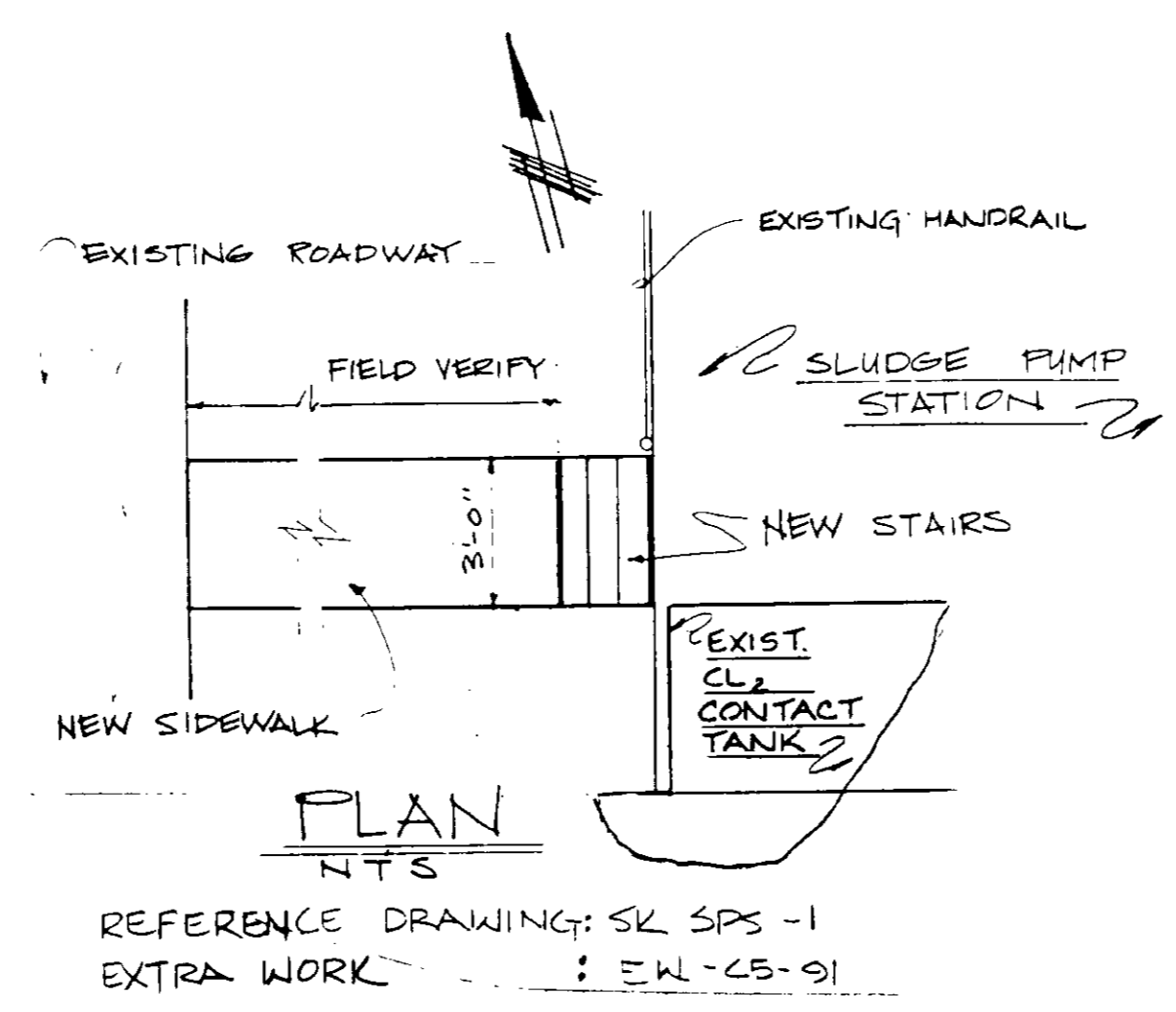
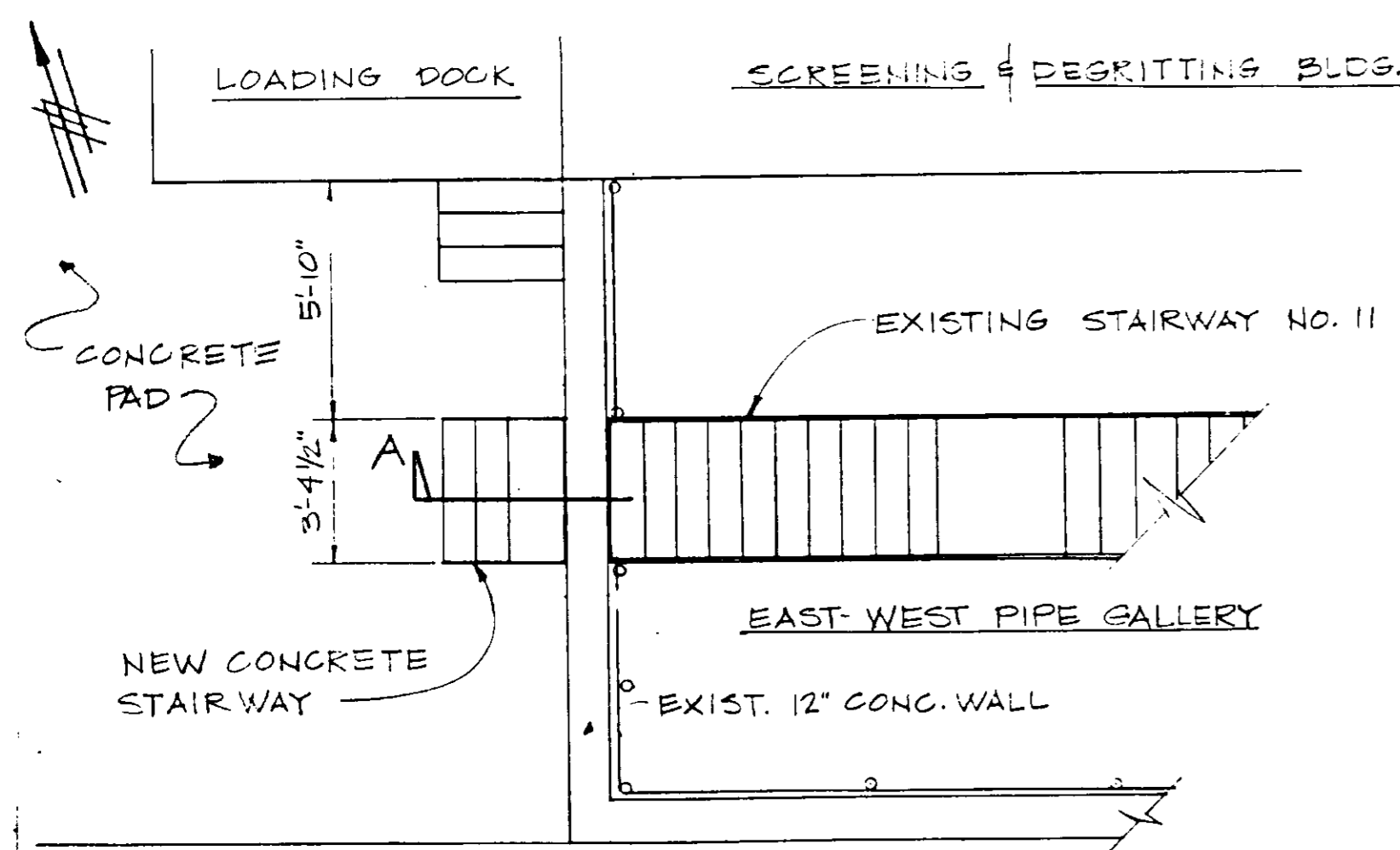
DETAIL "B"
REFERENCE DRAWING :
EXTRA WORK : EW-C5-14

03024

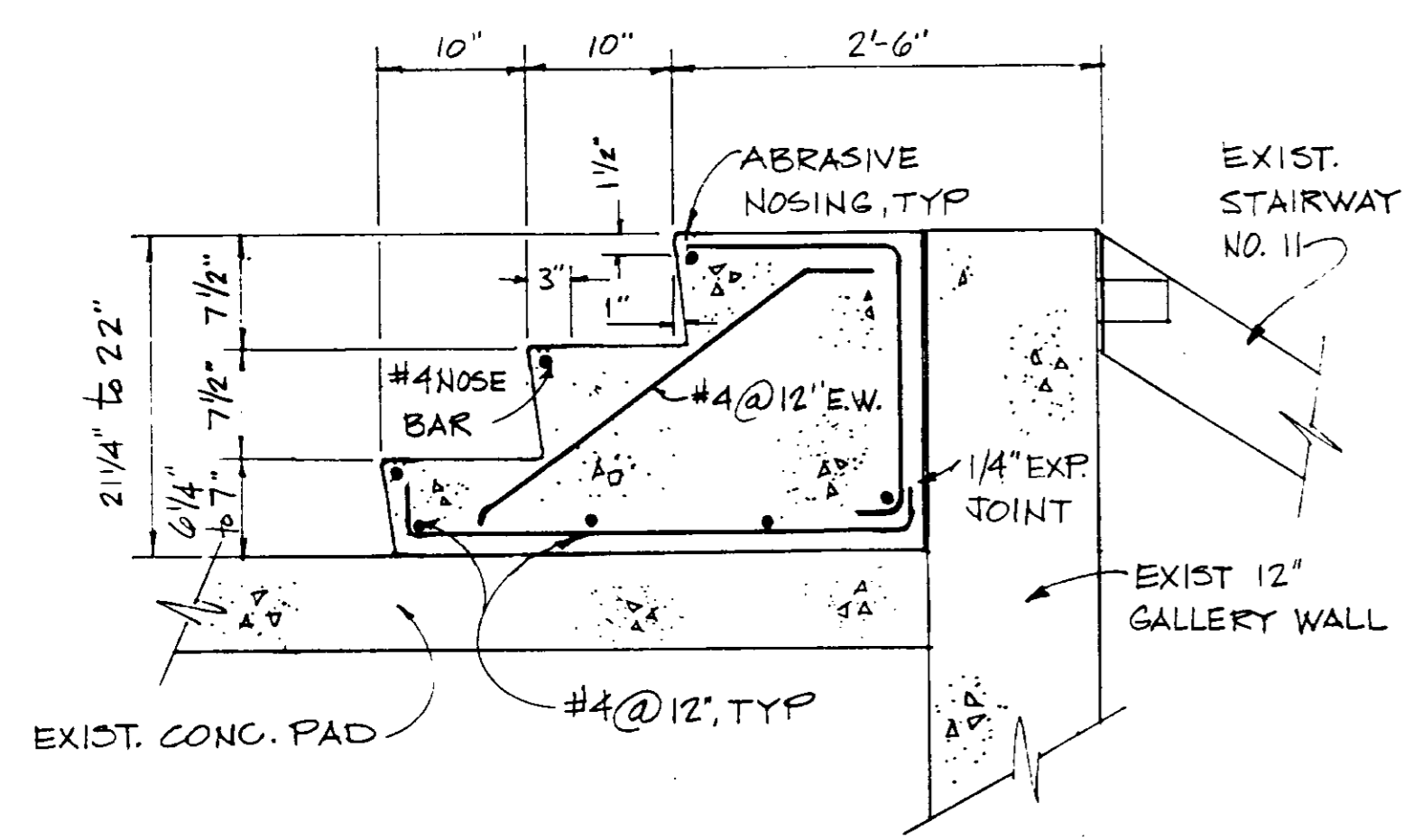
RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

Yoshitomo
KATSURA CONSULTING ENGINEERS RCE 14088
March 1985



PLAN
SCALE: 1/4" = 1'-0"
REFERENCE DRAWING: SK EW-1
EXTRA WORK: EW-C5-107

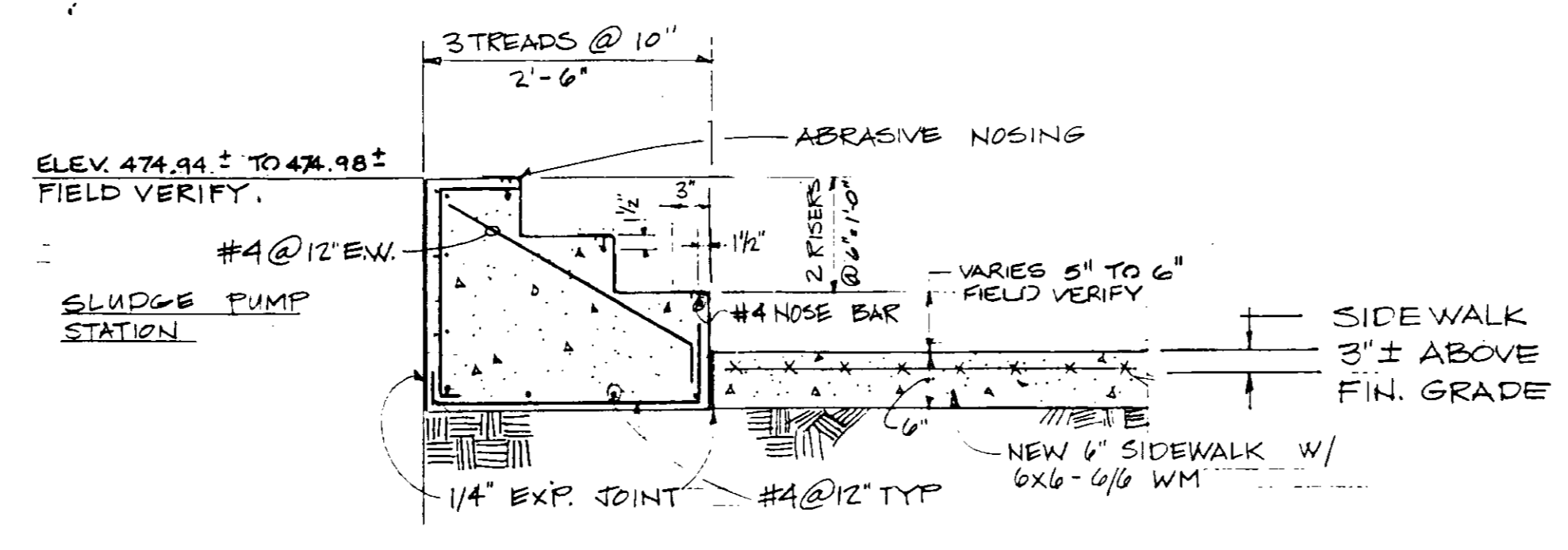


SECTION A
SCALE: 1" = 1'-0"

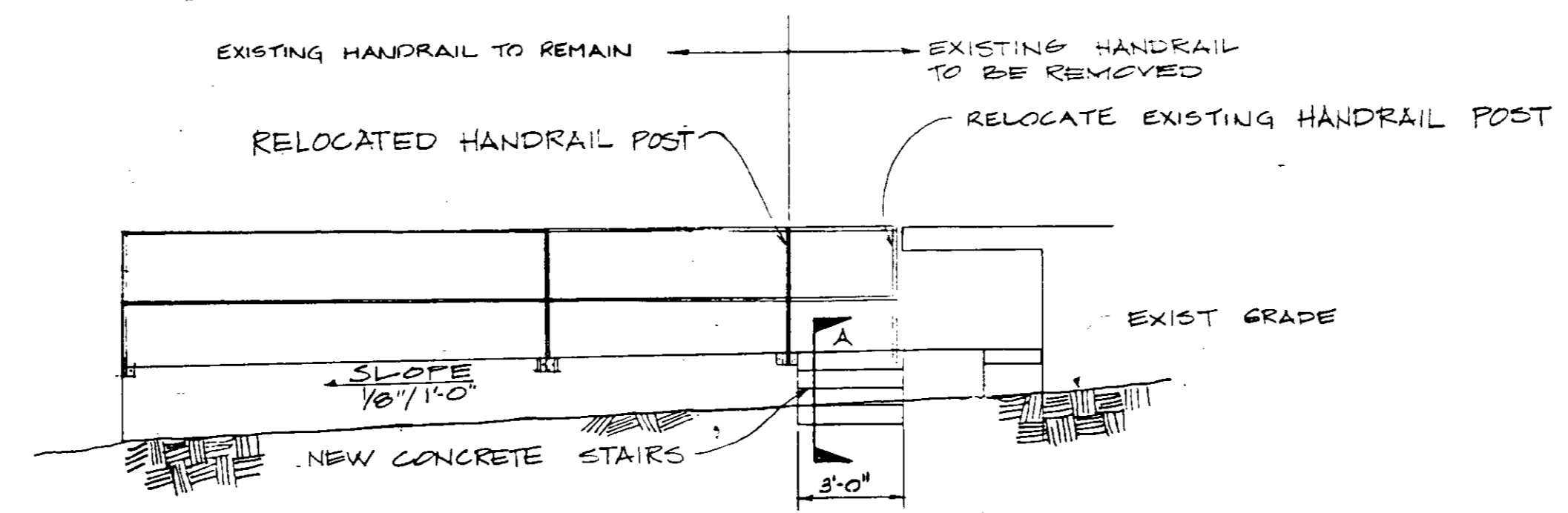
NOTES:

- 1. CONTRACTOR TO VERIFY DIMENSIONS IN THE FIELD.

EAST-WEST PIPE GALLERY STEPS FOR STAIRWAY NO. 11
REFERENCE DRAWING: SK EW-1
EXTRA WORK: EW-C5-107



REFERENCE DRAWING: SK SPS-1
EXTRA WORK: EW-C5-91



WEST ELEVATION
SCALE: 1/4" = 1'-0"

SLUDGE PUMP STATION NO. 1 ADDITIONAL ACCESS
REFERENCE DRAWING: SK SPS-1
EXTRA WORK: EW-C5-91

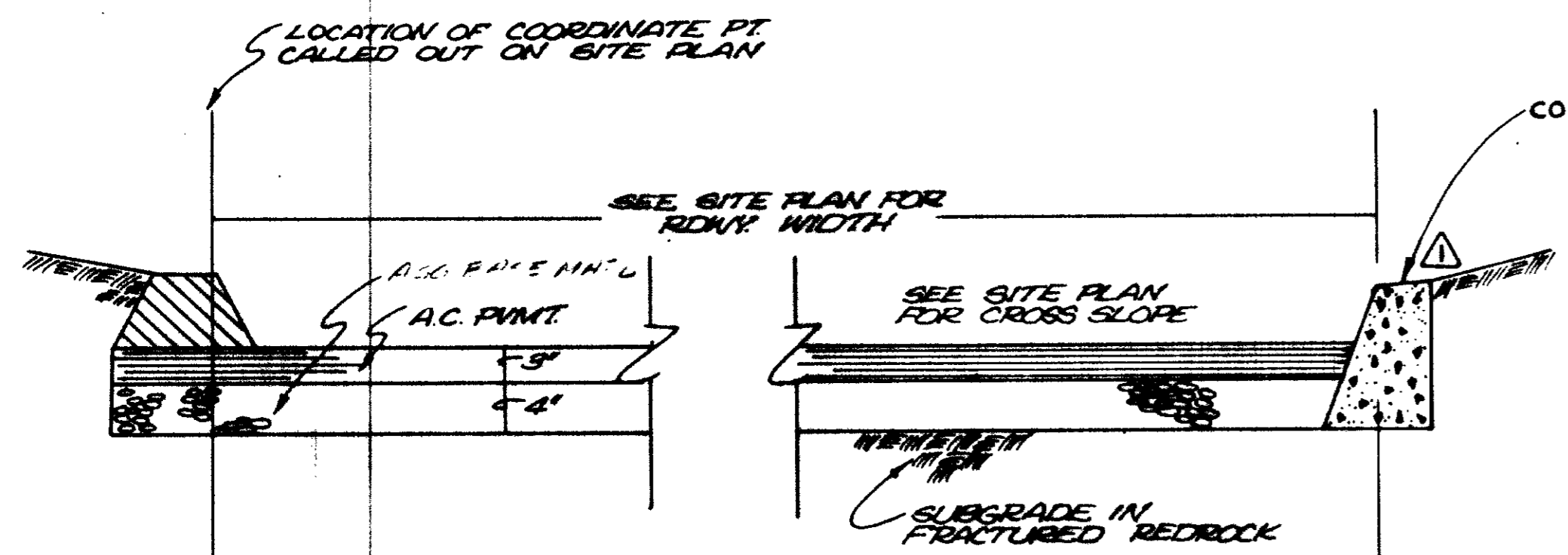
PLAN
ACCESS WALKWAY IN PAC INTAKE FILTER SILENCER AREA
REFERENCE DRAWING: SK C2-2
PLAN CHANGE: PC4-C5-54

RECORD DRAWINGS
Per Field Information Provided By Morley-Zlobarth & Alper
Yuh Katsura
KATSURA CONSULTING ENGINEERS
RCE 14038
March 1985

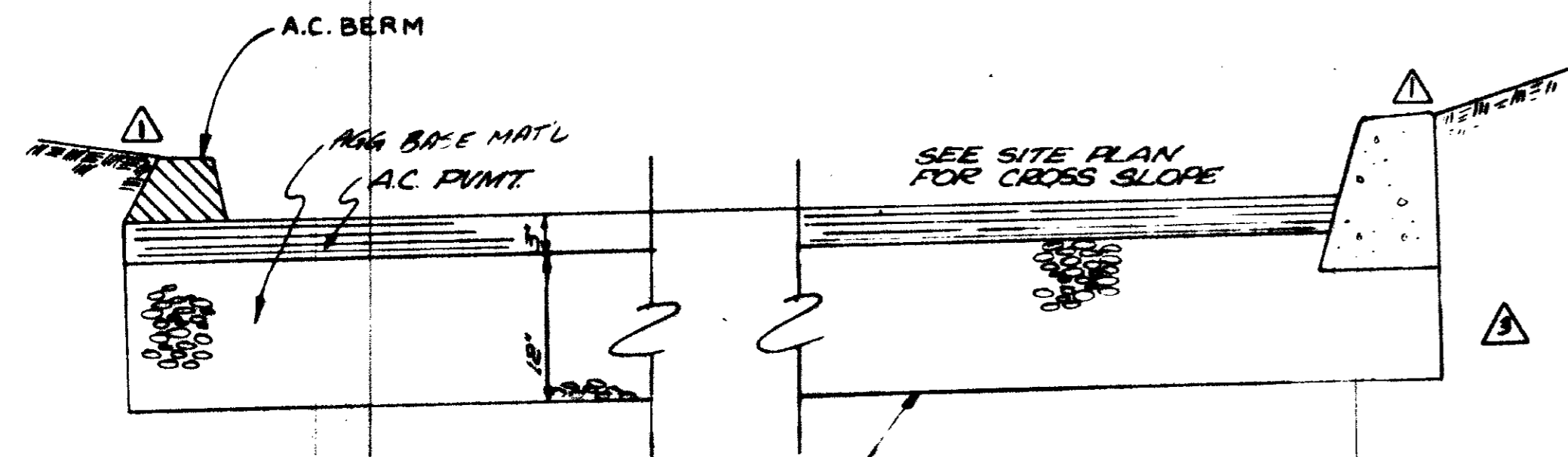
03025

SITWORK-DETAILS II

SHEET
C2-2C

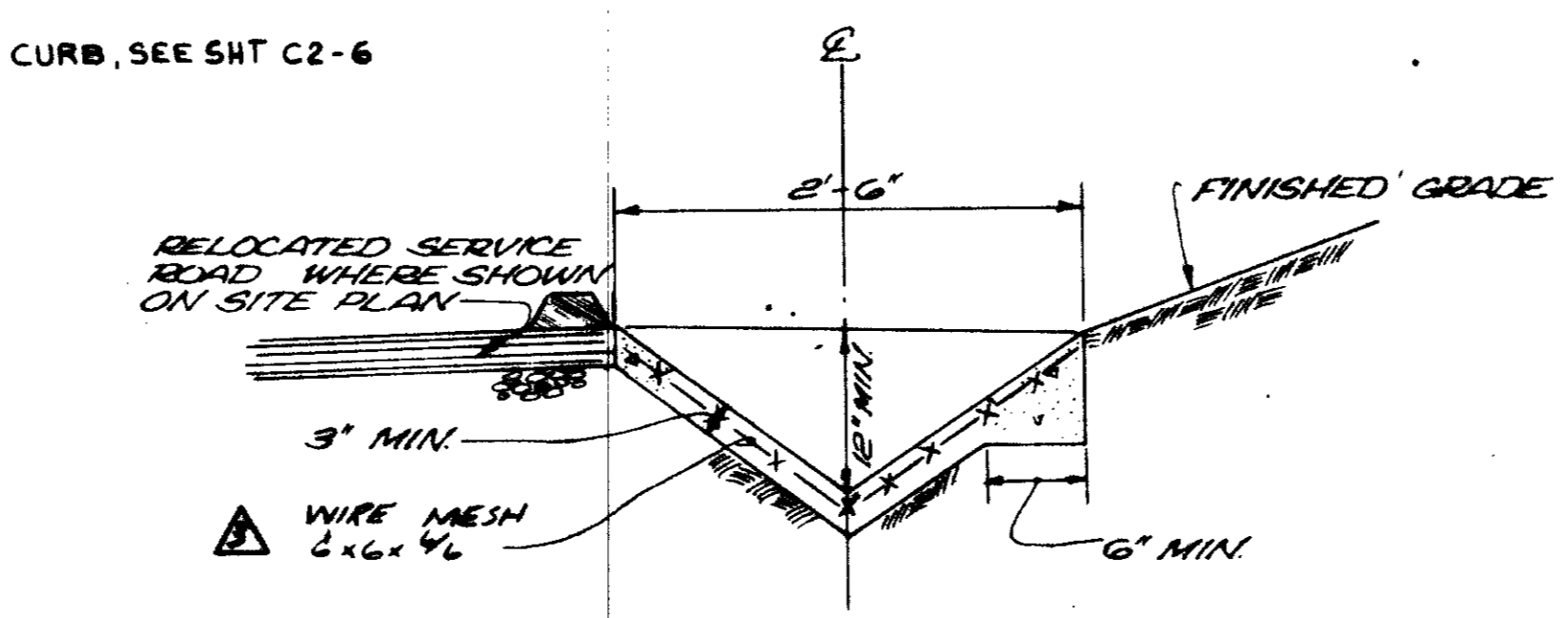


STRUCTURAL SECTION TYPE A

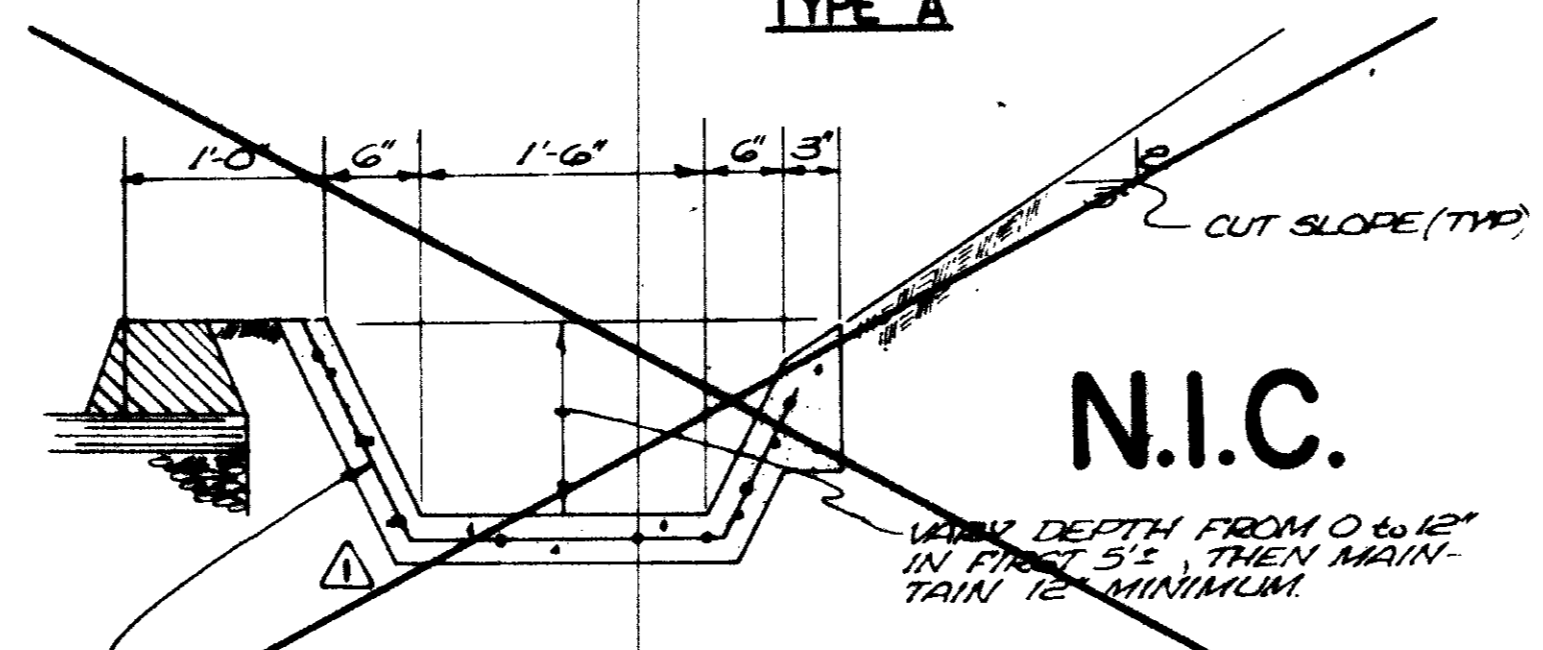


STRUCTURAL SECTION TYPE B

ROADWAY CROSS-SECTION DETAIL (A) 1"=1'-0"

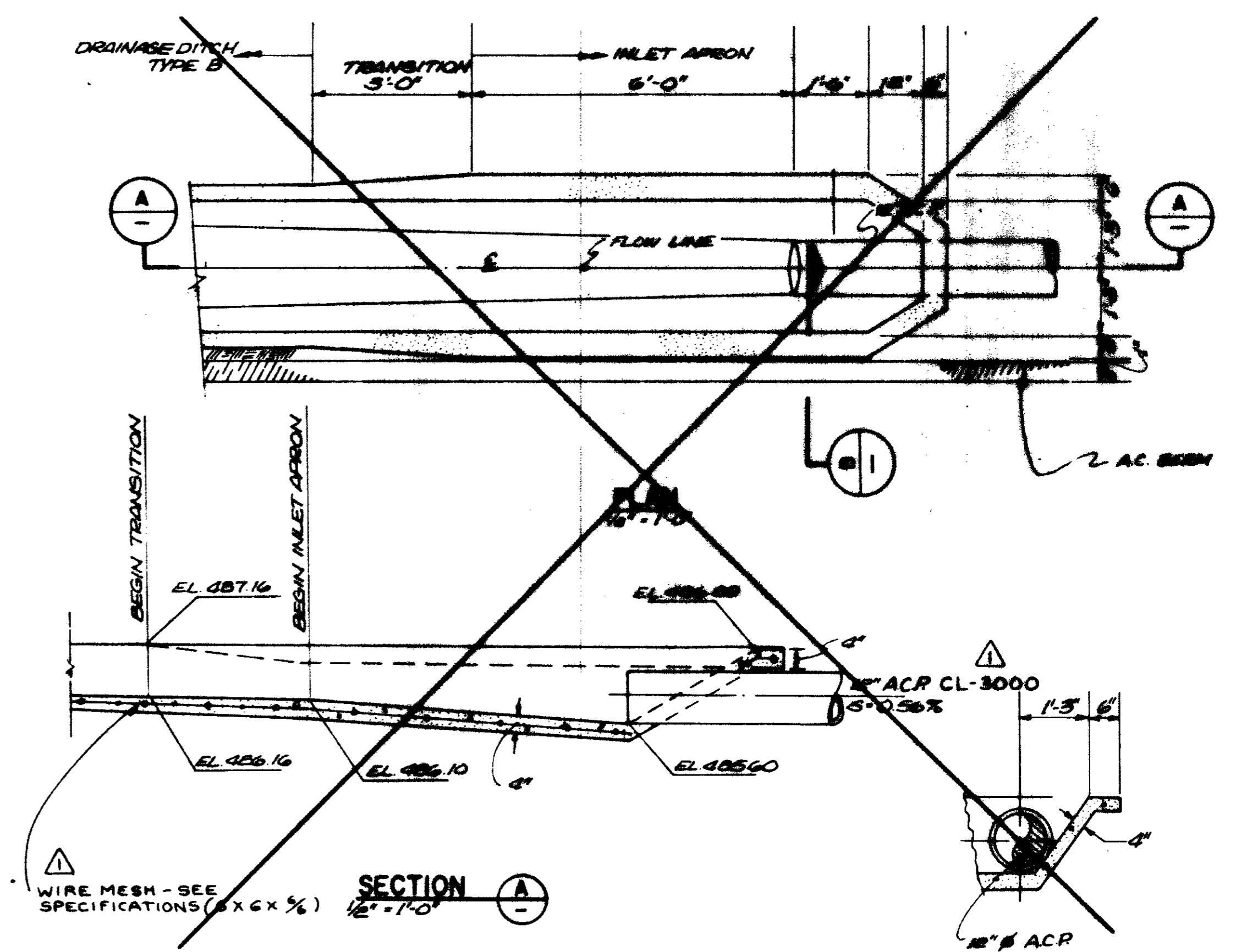


TYPE A

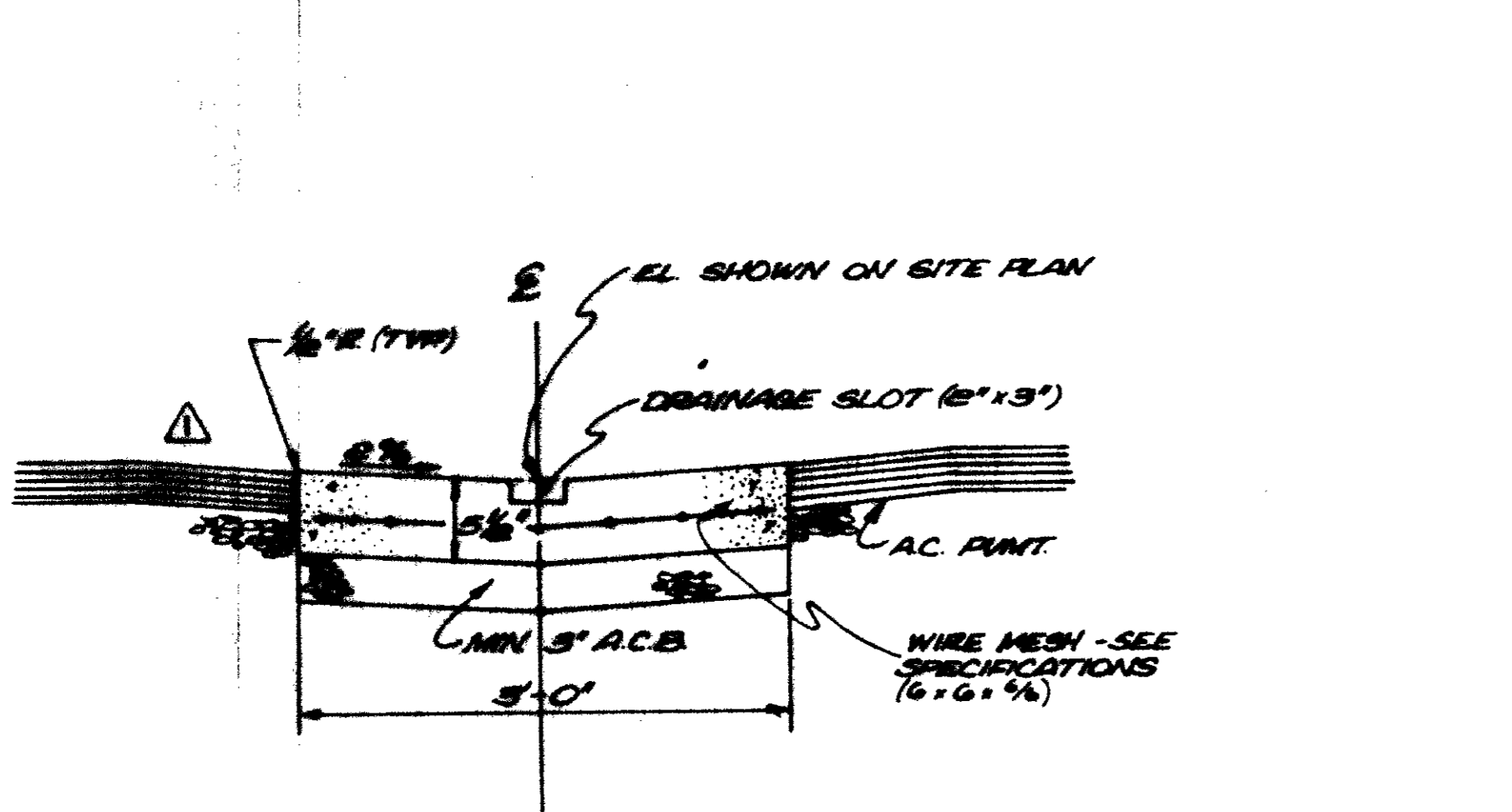


TYPE B

CONCRETE DRAINAGE DITCH DETAIL (C) NTS

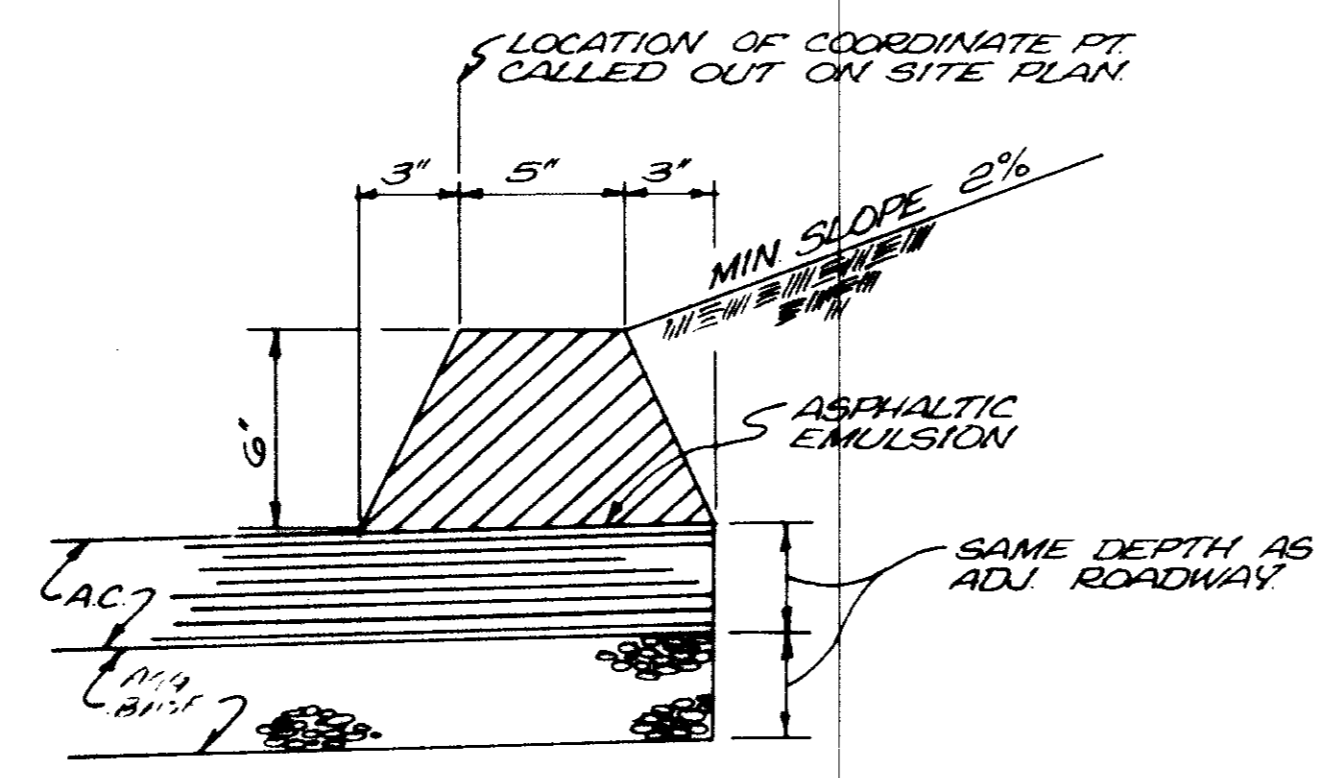


N.I.C. INLET APRON DETAIL (E) 12"=1'-0"



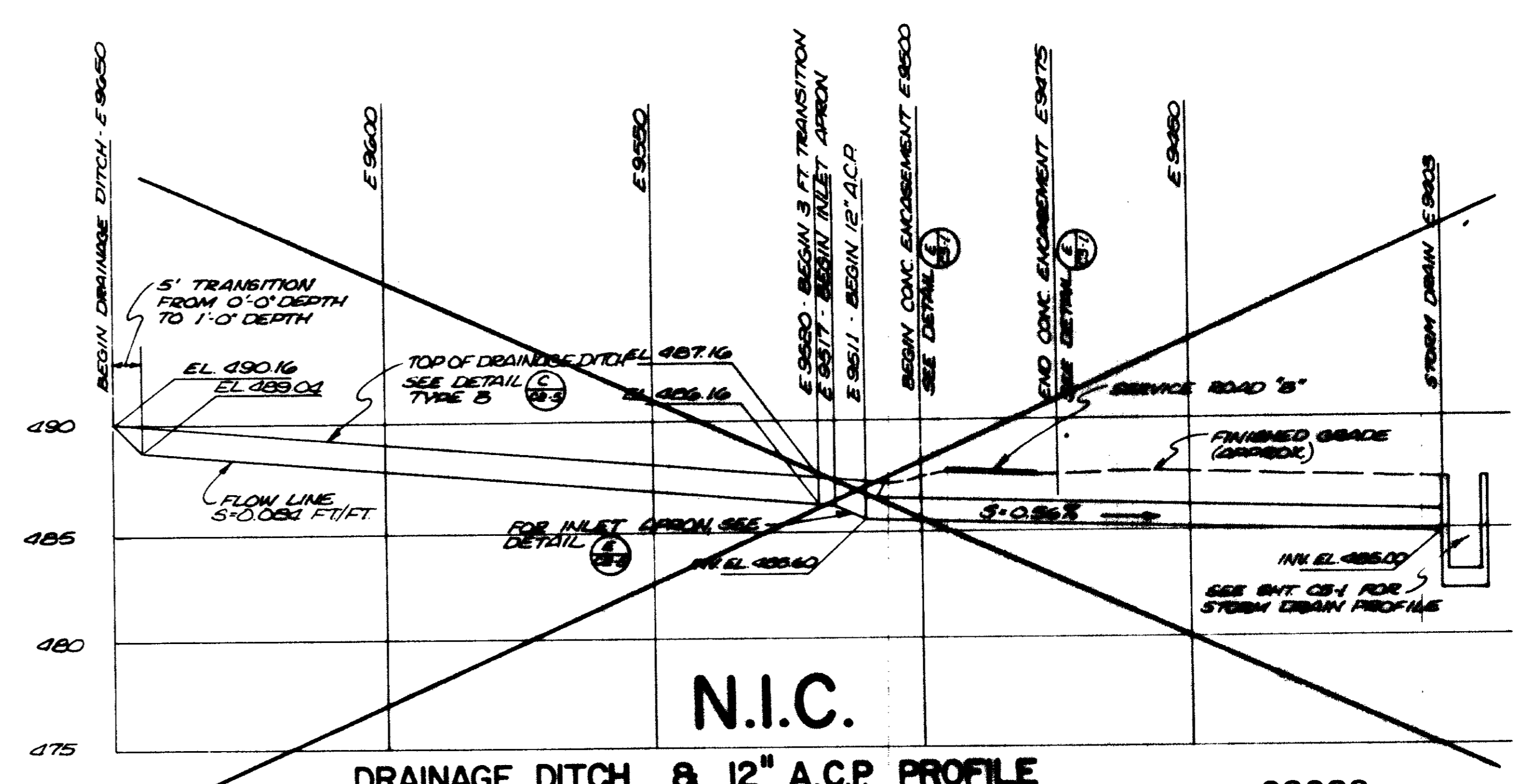
- NOTE: 1. SEE SITE PLAN FOR ELEVATIONS
 2. PROVIDE WEAKENED PLANE JT. AT 25' SPACINGS
 3. TRANSITION TO MATCH INLET STRUCTURE WITHIN 20' UPSTREAM FROM SLUMP INLET.

GUTTER DETAIL (B) 1"=1'-0"



- NOTES:
 1. ASPHALT GRADE AR-8000 SHALL BE USED FOR ALL BERMS.
 2. BERMS MAY BE SHAPED & COMPACTED WITH EXTRUSION MACHINE OR OTHER EQUIPMENT CAPABLE OF ACHIEVING DESIRED X-SECTION.
 3. QUANTITY OF AC ~ 0025 T/LF

A.C. BERM DETAIL (D) 1"=0'-6"



DRAINAGE DITCH & 12" A.C.P. PROFILE (E) VERT. 1"=5'-0" HORIZ. 1"=20'-0"

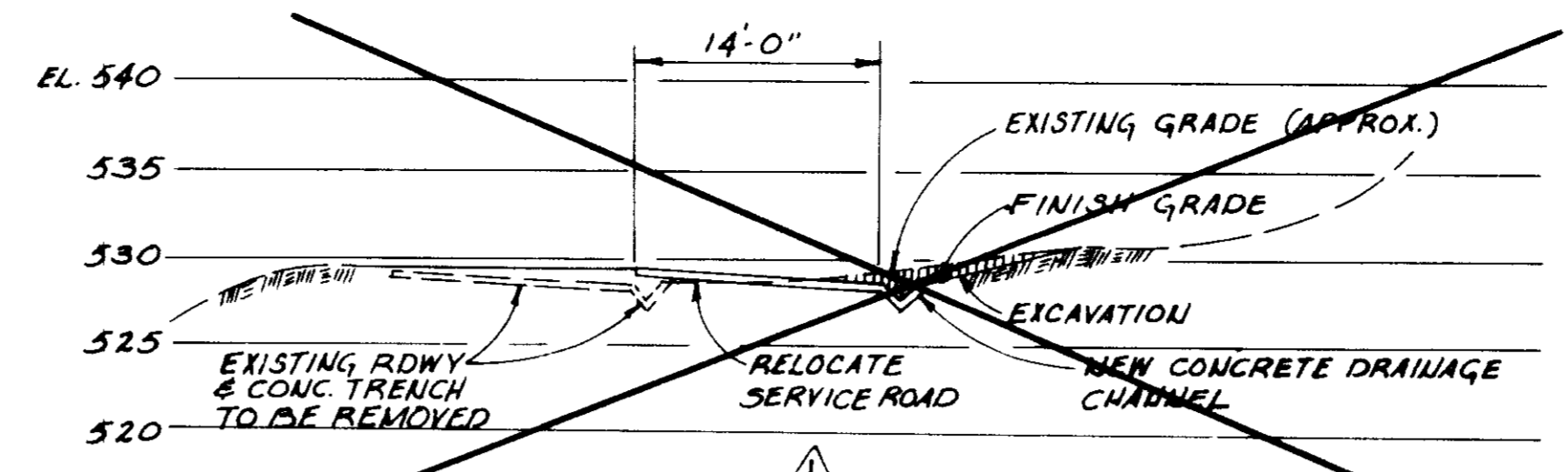
REV	DATE	BY	DESCRIPTION

DESIGNED	JAH
DRAWN	R.E./Y.K.
CHECKED	

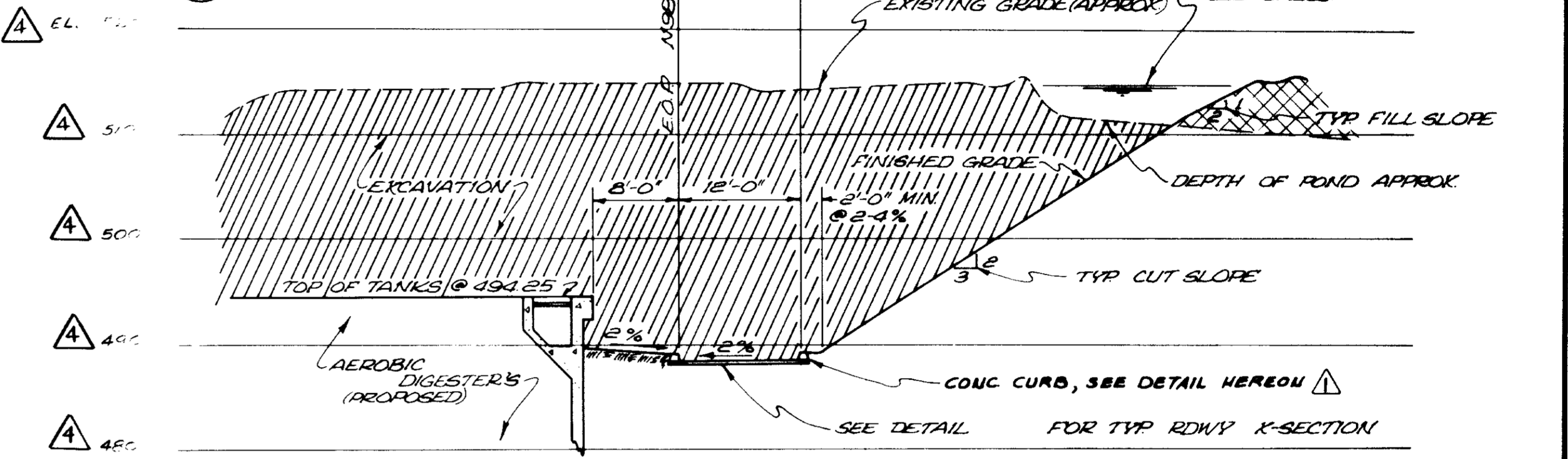
SUBMITTED	14038	11-2-11
PROJECT MANAGER	R.C.E. NO.	DATE
PROJECT ADMINISTRATOR	14894	11-2-11
	R.C.E. NO.	DATE

LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.		SHEET C2-5
SITWORK AND GRADING DETAILS I		

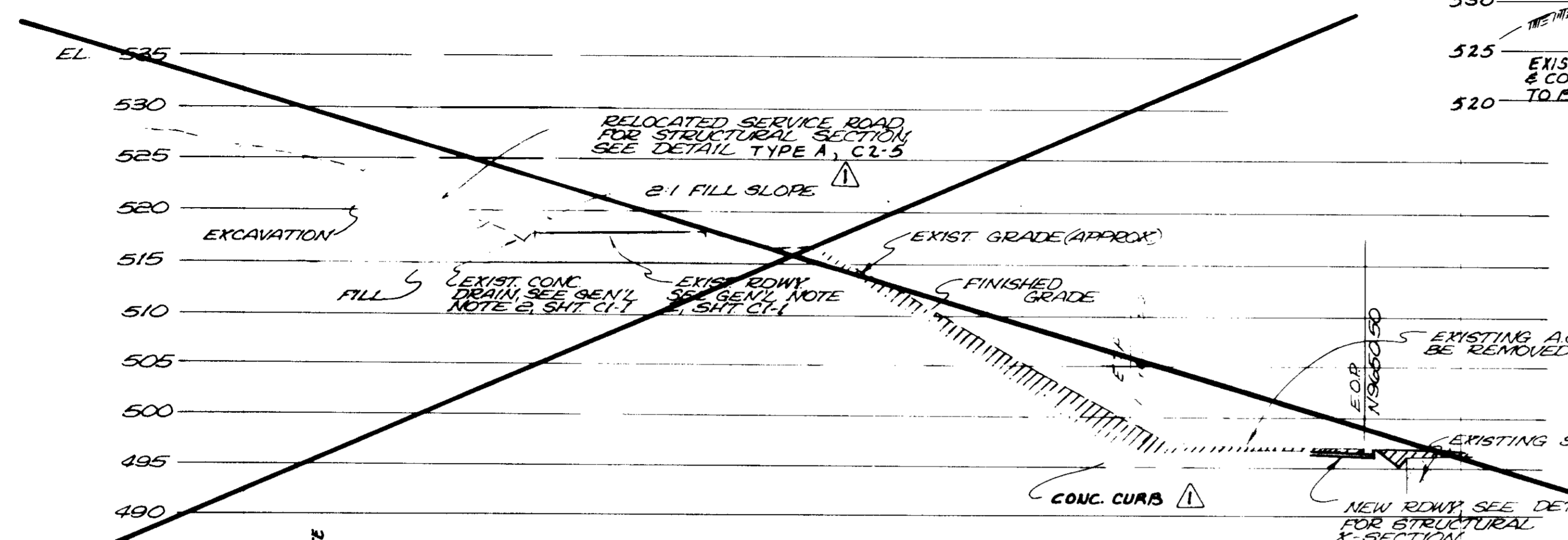
Sw. 10 of 13 ADD #1



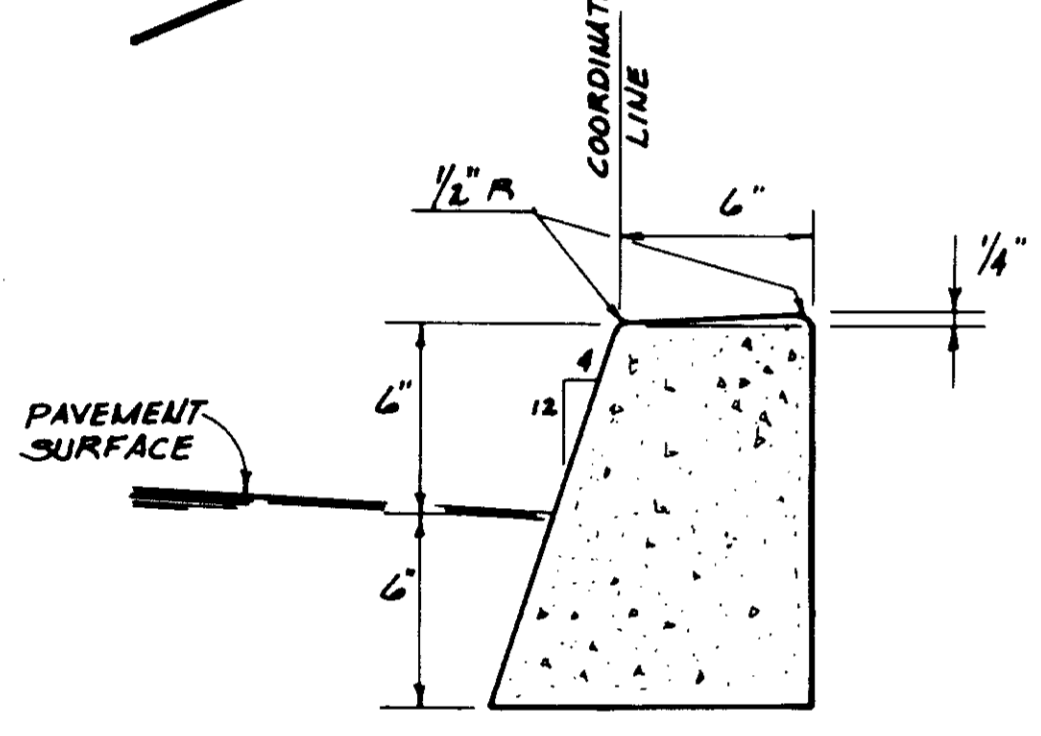
SECTION B
1" = 10'-0"



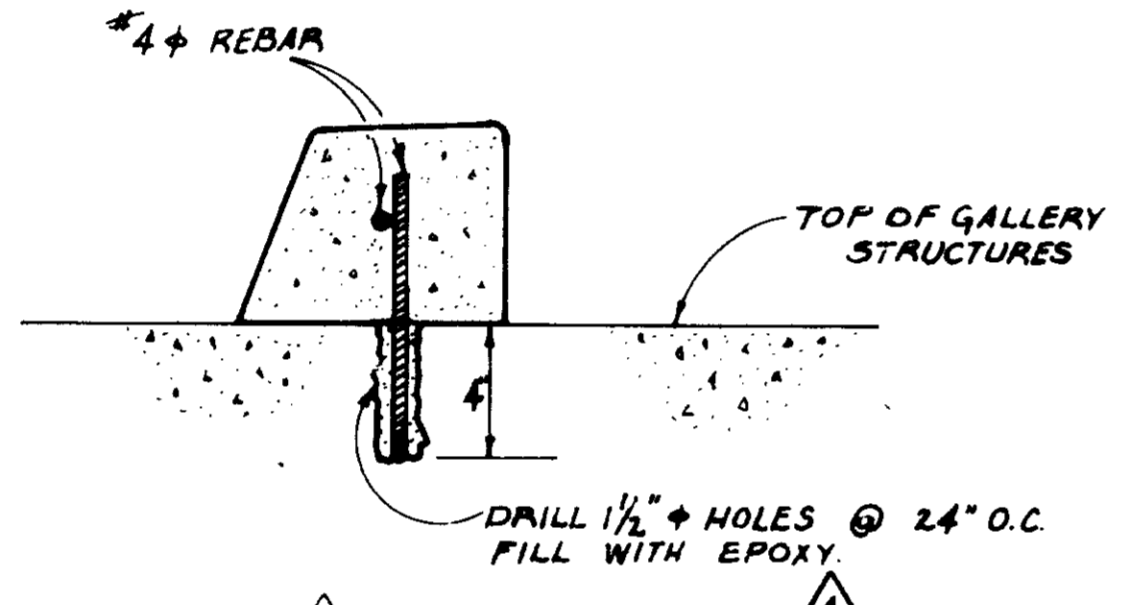
SECTION C
1" = 10'-0"



SECTION A
1" = 10'-0"

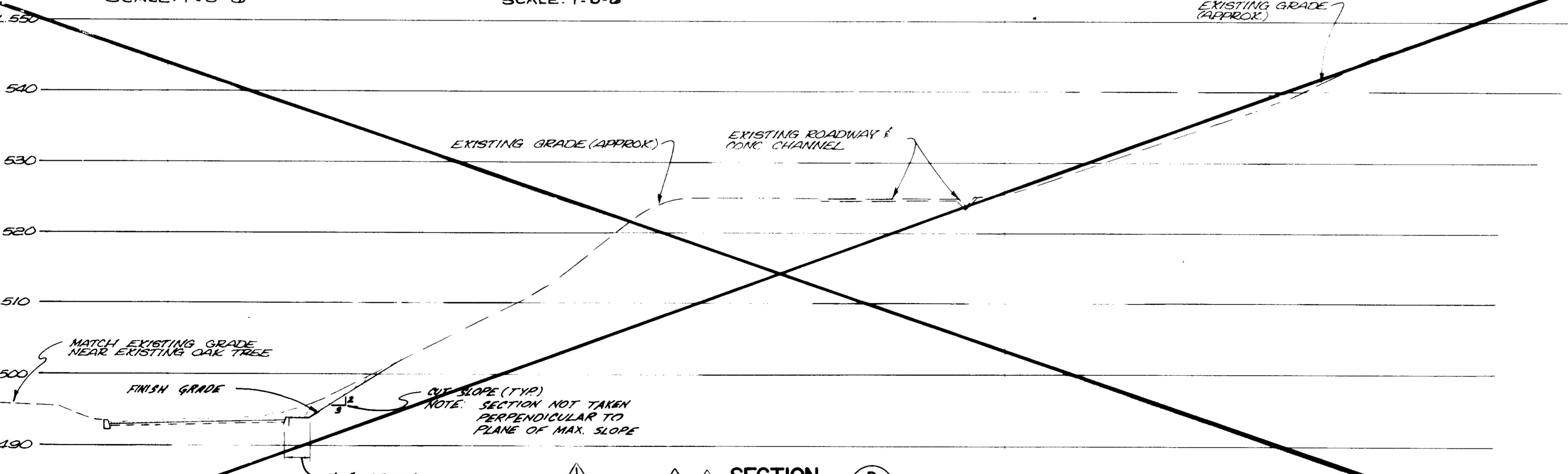


TYPICAL CONCRETE CURB
SCALE: 1" = 0'-6"

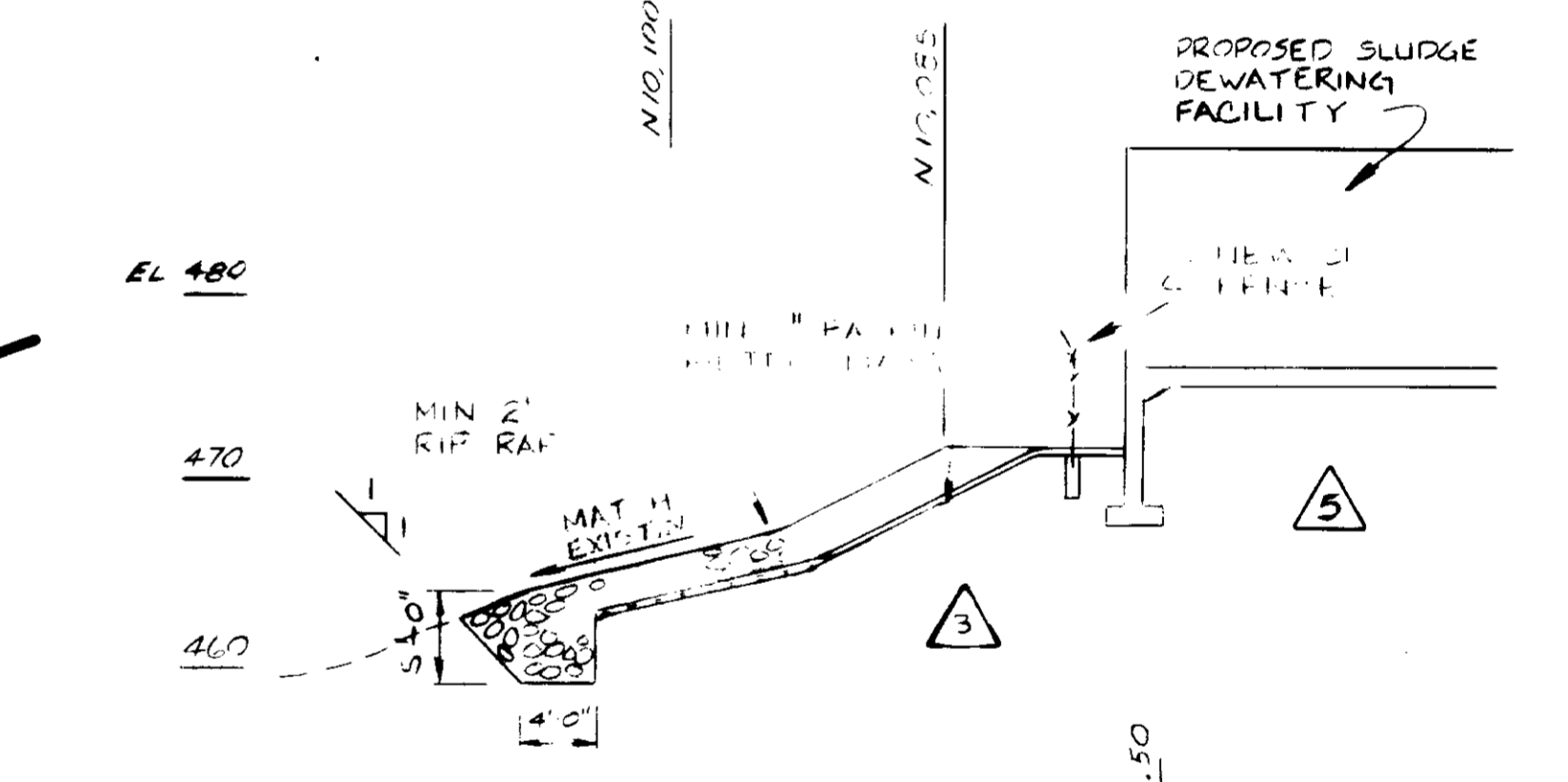


REINFORCED CURB AT GALLERY
SCALE: 1" = 0'-6"

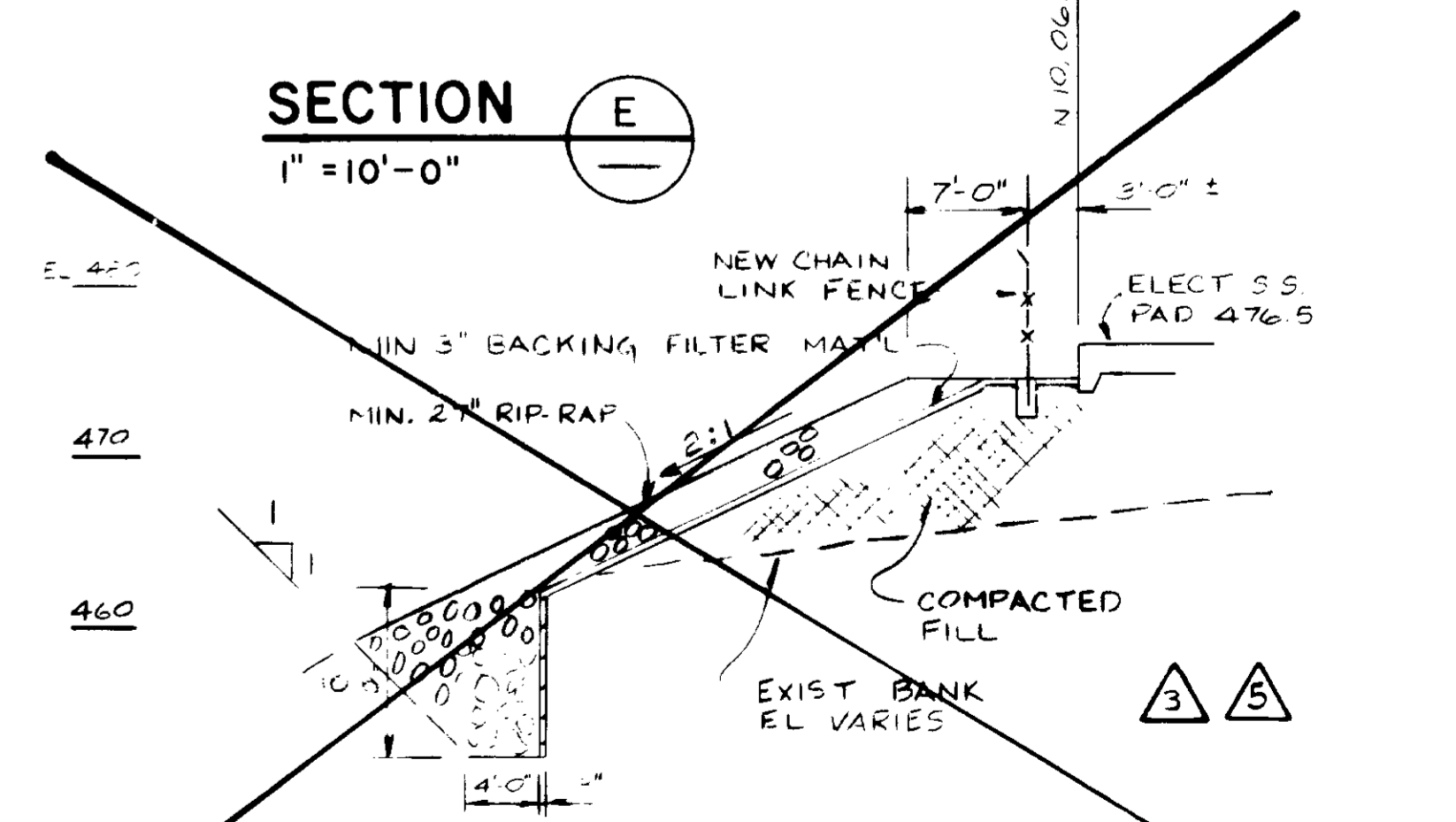
- NOTE:**
- EXPANSION JOINTS OF 1/2" INCH RIGID BITUMINOUS MATERIAL SHALL BE PLACED AT ALL BC'S, BETWEEN REINFORCED AND NON-REINFORCED CURBS, AT ALL STRUCTURES AND AT MAXIMUM 50-FOOT SPACING.
 - SCORE-LINES SHALL BE MARKED AT RIGHT ANGLES TO CURB AT 36" INCH INTERVALS.
 - IF EXISTING REINFORCING IS ENCOUNTERED WHILE DRILLING HOLES, NEW HOLE SHALL BE DRILLED.
 - ALL EXPOSED SURFACES OF CURB SHALL BE GIVEN A MORTAR BRUSH COAT CONSISTING OF ONE PART PORTLAND CEMENT, ONE PART SAND, ONE-QUARTER POUND LAMP BLOCK PER SACK OF CEMENT AND THEN TROWELED SMOOTH.



SECTION D
1" = 10'-0"



SECTION E
1" = 10'-0"



SECTION F
1" = 10'-0"

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Y.K. Volante
RCE 14038
KATSURA CONSULTING ENGINEERS March 1988

03029
EW-C2-7

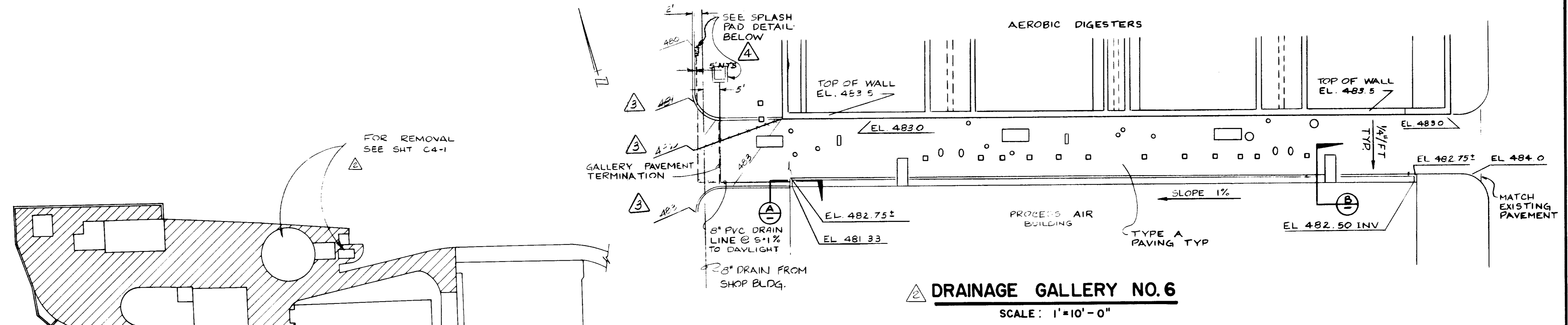
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
3-21-80	Y.K.	CLARIFICATION					
11-21-79	Y.K.	OAK TREE PRES MOD.					
11-6-79	SHF	Rev Cutoff Depth, Riprap & Filter	8-23-80	Y.K.	COASTAL COMMISSION REV. PART 2		
11-4-79	Y.K.	ADDED CURB DETAILS & CNG NOTES	8-23-80	Y.K.	COASTAL COMMISSION REV. PART 1		

SCALE: AS NOTED	DESIGNED: JRH	SUBMITTED: 14038 11-6-79
CHECKED: R.E./Y.K.	DRAWN: Y.K.	PROJECT MANAGER: R.C.E. NO. DATE
		PROJECT ADMINISTRATOR: R.C.E. NO. DATE

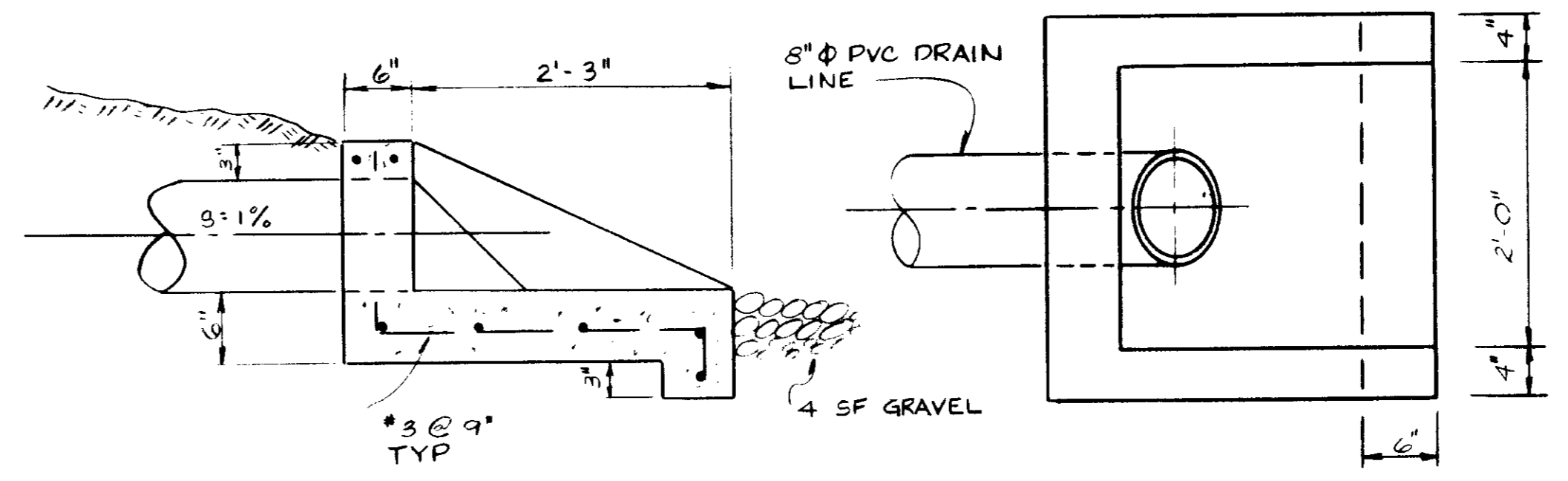
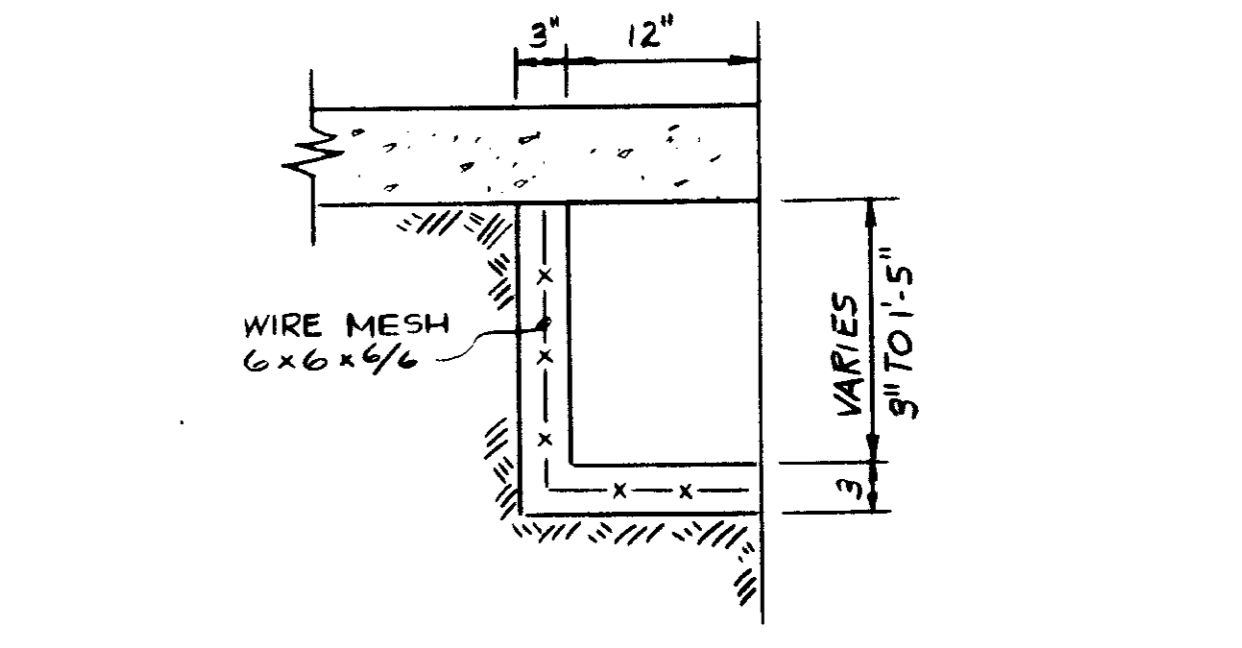
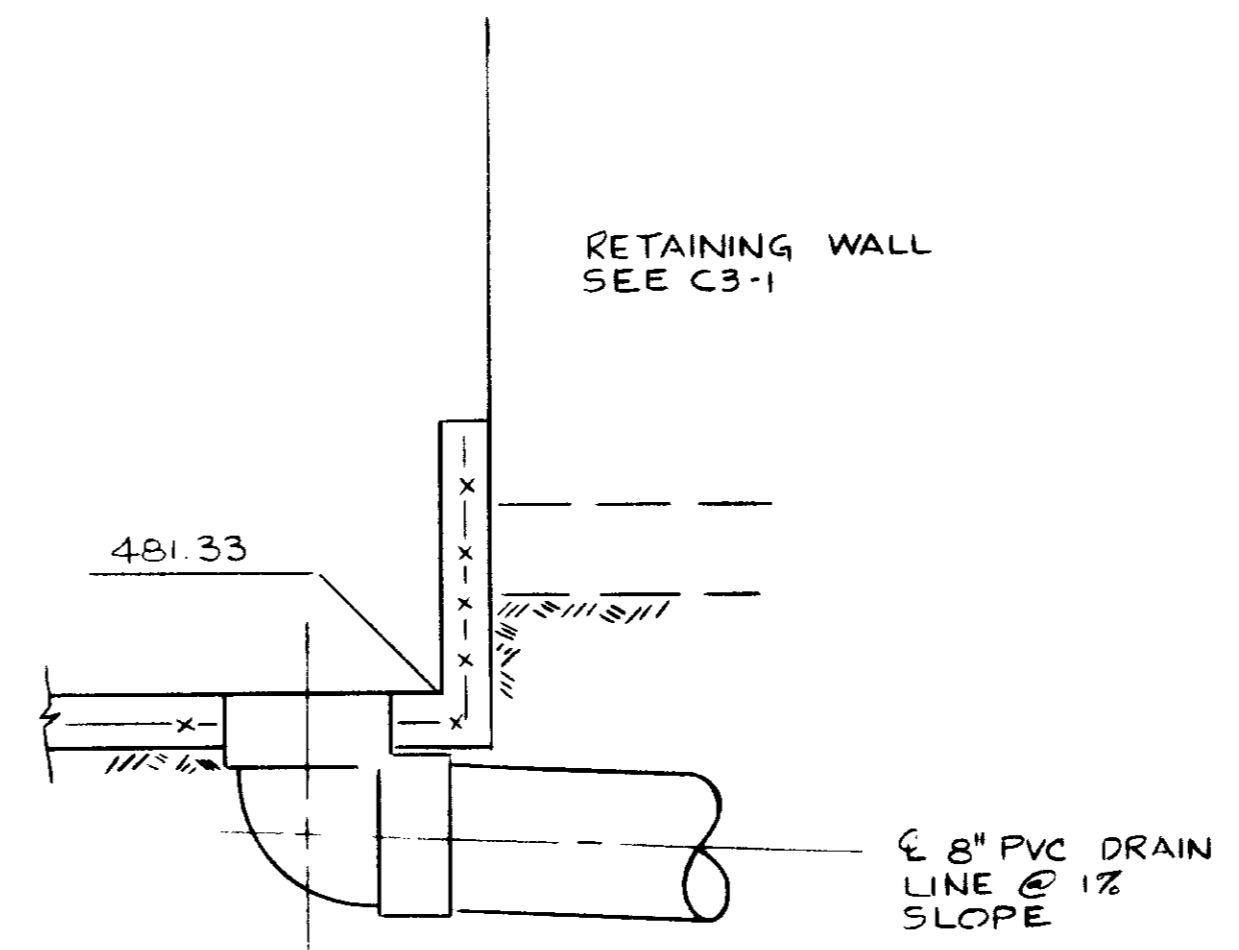
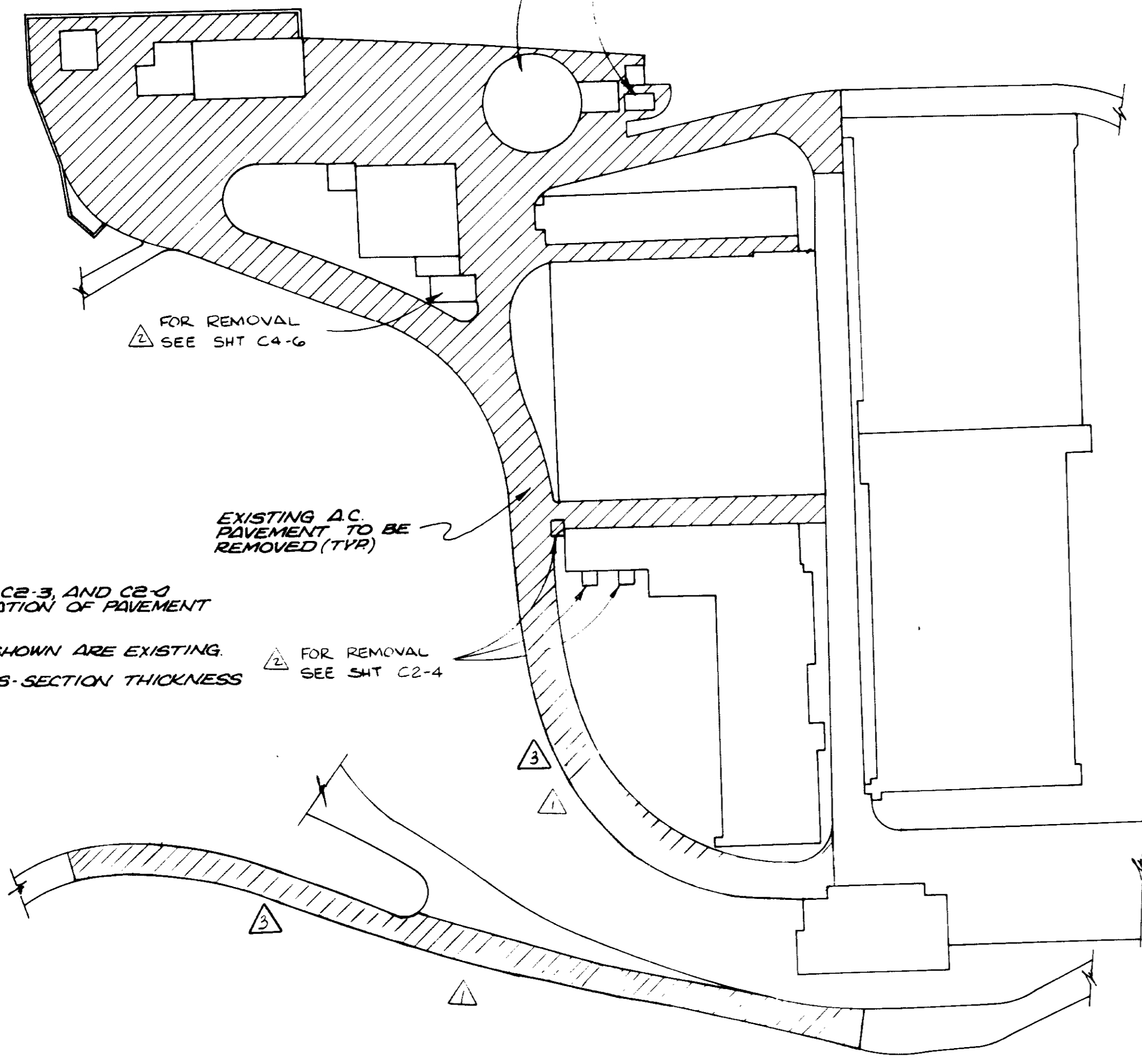
JKK CONSULTING ENGINEERS
A JOINT VENTURE
8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-9117

LA'S VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
SITWORK AND GRADING DETAILS II

SHEET C2-6



- NOTES:**
- (1) SEE SHTS. C2-2, C2-3, AND C2-4 FOR EXACT LOCATION OF PAVEMENT REMOVAL LIMITS.
 - (2) ALL FACILITIES SHOWN ARE EXISTING.
 - (3) PAVEMENT CROSS-SECTION THICKNESS IS UNKNOWN.



- NOTES:**
1. CONTRACTOR MAY ELECT TO PROVIDE ALTERNATE PAVING OF 3" CONCRETE WITH WIRE MESH. PREMOULDED JOINT FILLER AT 10' OC MAXIMUM.
 2. ELEVATIONS, THIS SHEET SUPERCEDE THOSE ON C2-4, MM-3, M7-16, M7-17.
 3. FOR SURFACE FEATURES SEE C2-4, M7-6, M7-7, M7-16, M7-17 AND MM-2.

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yosh Katsura RCE 14088
KATSURA CONSULTING ENGINEERS March 1988

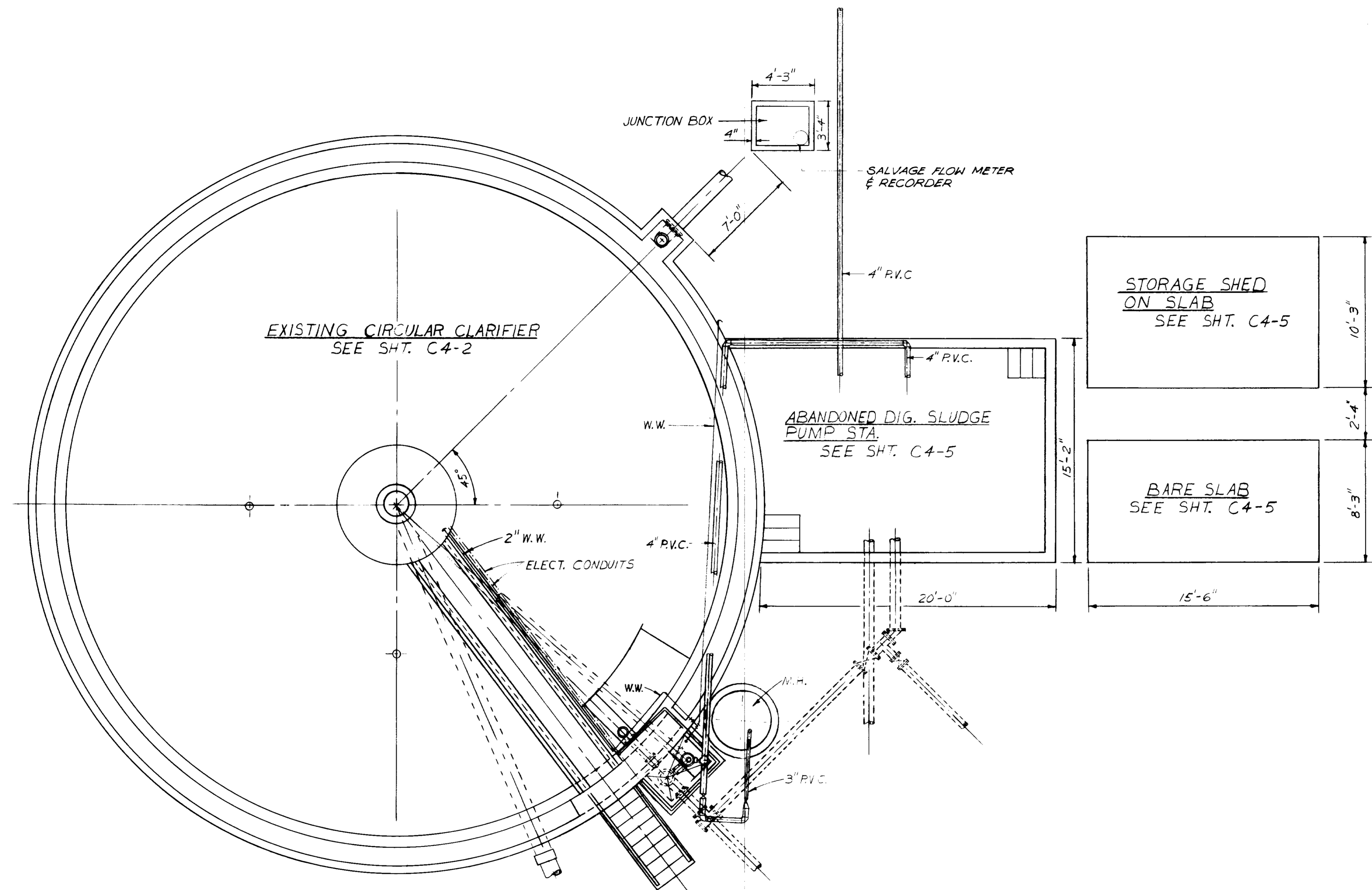
03030

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REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION																																						
Δ	8/26/82	Y.K.	CLARIFICATION																																										
Δ	9/26/82	Y.K.	COASTAL COMMISSION REV. PART 2																																										
Δ	12/21/79	Y.K.	ADD'L DETAILS																																										
Δ	12/21/79	Y.K.	O&K TREE PRES MOD																																										

Shr. 12 ac / B



NOTES:
 1. CONTRACTOR SHALL DEMOLISH, REMOVE & SALVAGE EXISTING & ABANDONED FACILITIES AS SHOWN ON THE DRAWINGS AND AS DIRECTED IN THE SPECIFICATIONS.
 2. SEE SHT. C4-4 FOR EXISTING STRUCTURAL REINFORCING.
 3. SEE SPECS. FOR DEMOLITION SCHEDULE.

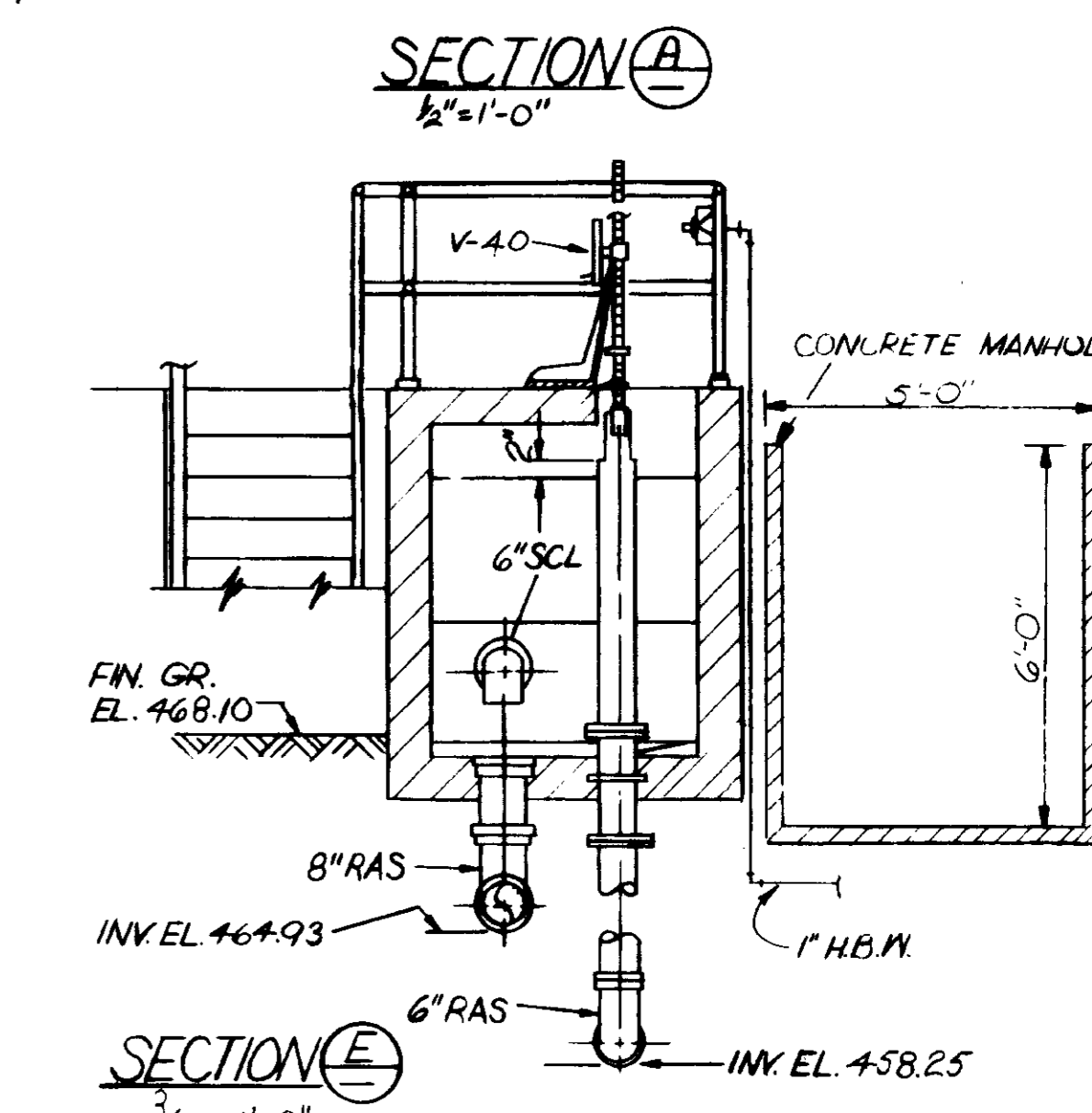
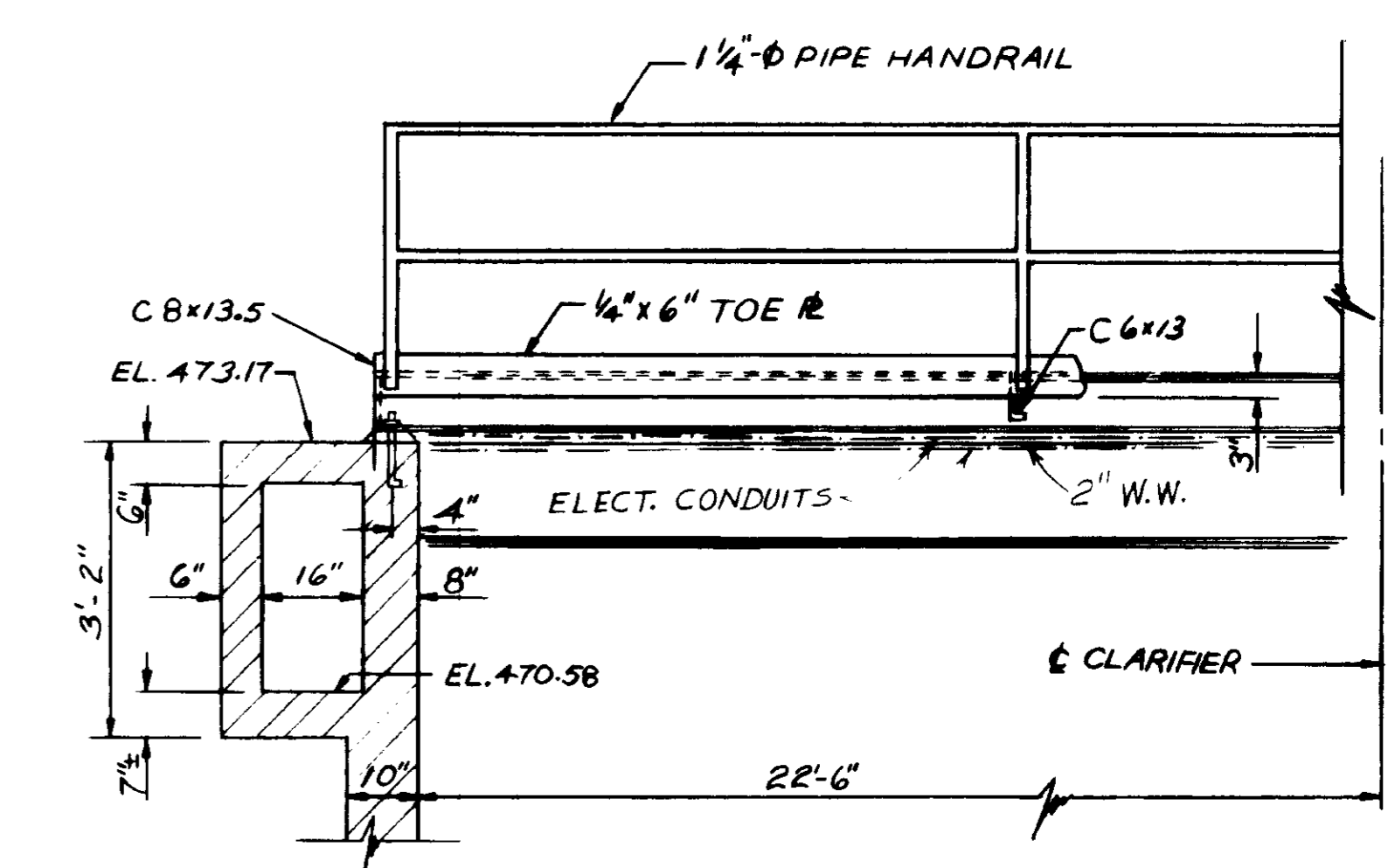
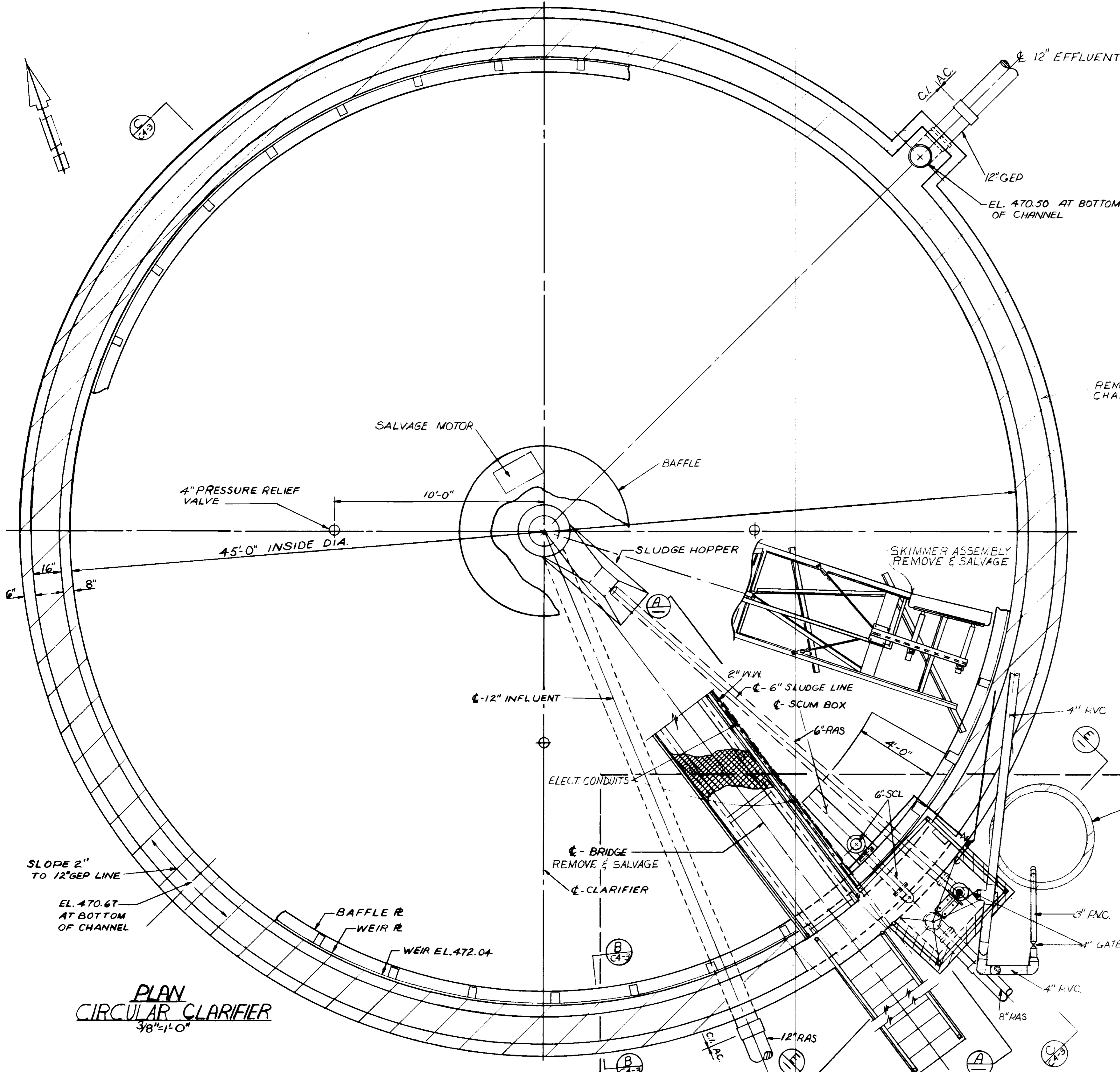


GENERAL DEMOLITION AREA - PLAN

03031

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Upd. Katsura
 KATSURA CONSULTING ENGINEERS
 RCE 14038
 March 1985

SCALE : $\frac{1}{4}'' = 1'-0''$		DWY DESIGNED J.K. DRAWN S.K. CHECKED	SUBMITTED <i>Michael</i> PROJECT MANAGER 14038 8/15/79 R.C.E. NO. DATE	CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. DEMOLITION I EXISTING CIRCULAR CLARIFIER & VICINITY	SHEET C4-1	
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION



REMOVE CONC. WALL OF CHANNEL TO EL. 468.50 ±

LIMIT OF WALL REMOVAL TO EL. 460.00 ±

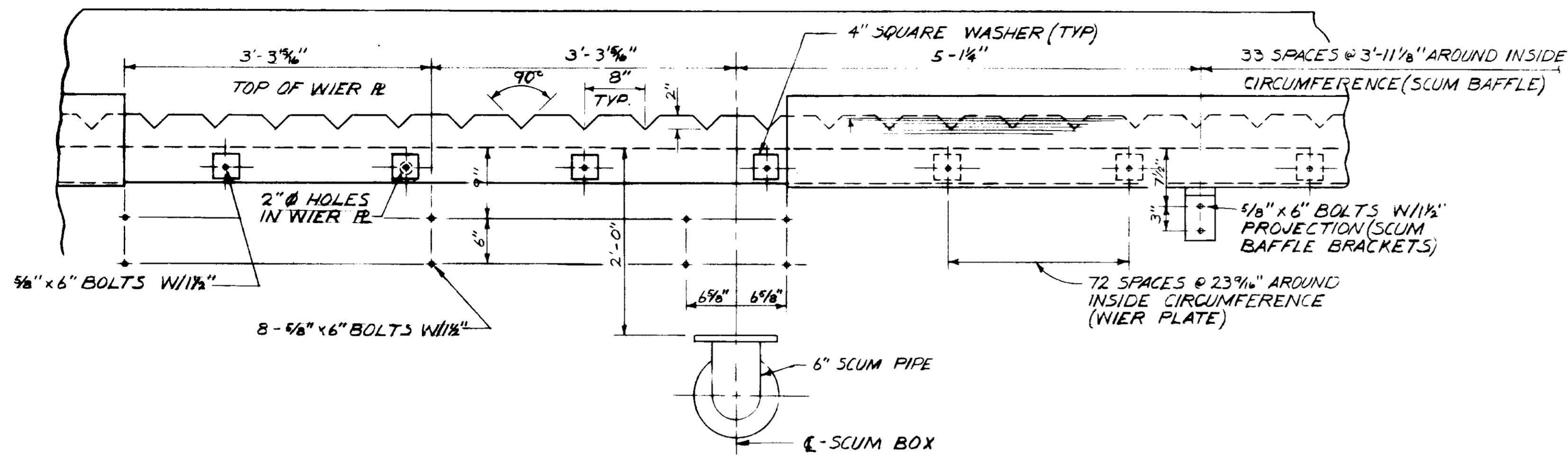
- NOTES:**
1. SEE DETAILED SPECIFICATIONS ON EQUIPMENT AND MATERIAL SALVAGE, DISPOSAL OFF SITE
 2. REMOVE & DISPOSE OF ALL STRUCTURE, EQUIPMENT, MATERIAL, & PIPING NOT DESIGNATED AS "SALVAGE" OR "TO REMAIN".
 3. SEE DETAILED SPECIFICATIONS FOR BACKFILLING REQUIREMENTS.
 4. PIPE CAPPING, ETC., SEE SPECS.
 5. REMOVE ALL AND BOTTOM SLAB OF EXISTING CLARIFIER AS REQUIRED FOR INSTALLATION OF 18-INCH PLANT DRAIN

PLAN
CIRCULAR CLARIFIER
3/8" = 1'-0"

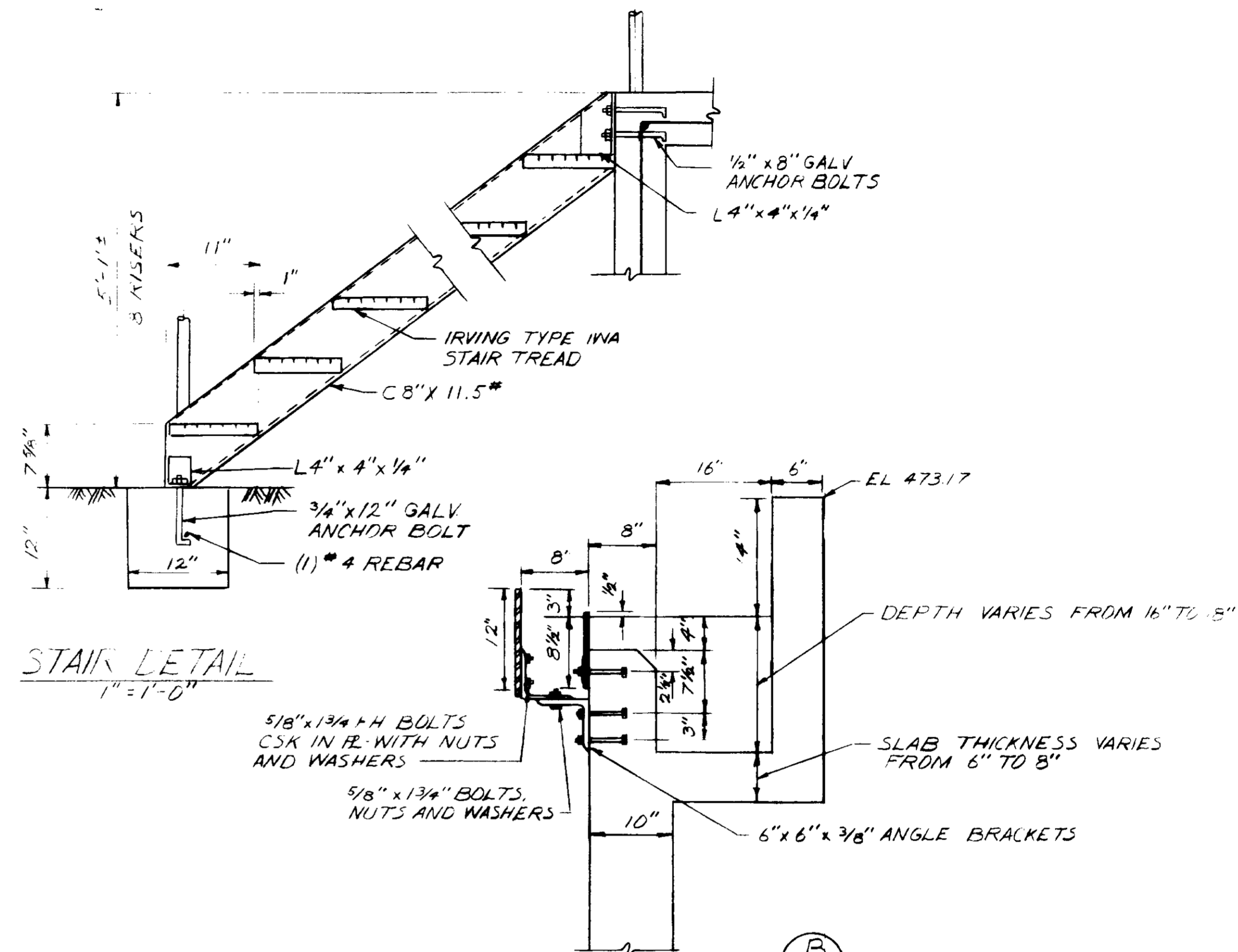
03032

RECORD DRAWINGS
Per Field Information Provided By Morley-Zobarrh & Alper
Yph Katsura
RCE 14088
KATSURA CONSULTING ENGINEERS March 1985

DWV. DESIGNED: <i>AAA</i> DRAWN: <i>SK</i> CHECKED:		SCALE: AS SHOWN		SUBMITTED: <i>[Signature]</i> 14088 8/15/79 DESIGNED: <i>[Signature]</i> R.C.E. NO. DATE PROJECT MANAGER: <i>[Signature]</i> 14894 8/15/79 PROJECT ADMINISTRATOR: R.C.E. NO. DATE		JK CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. DEMOLITION I EXISTING CIRCULAR CLARIFIER		SHEET C4-2	
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION				
				1/2/84	C.L.		REV PER MZA & JCE				

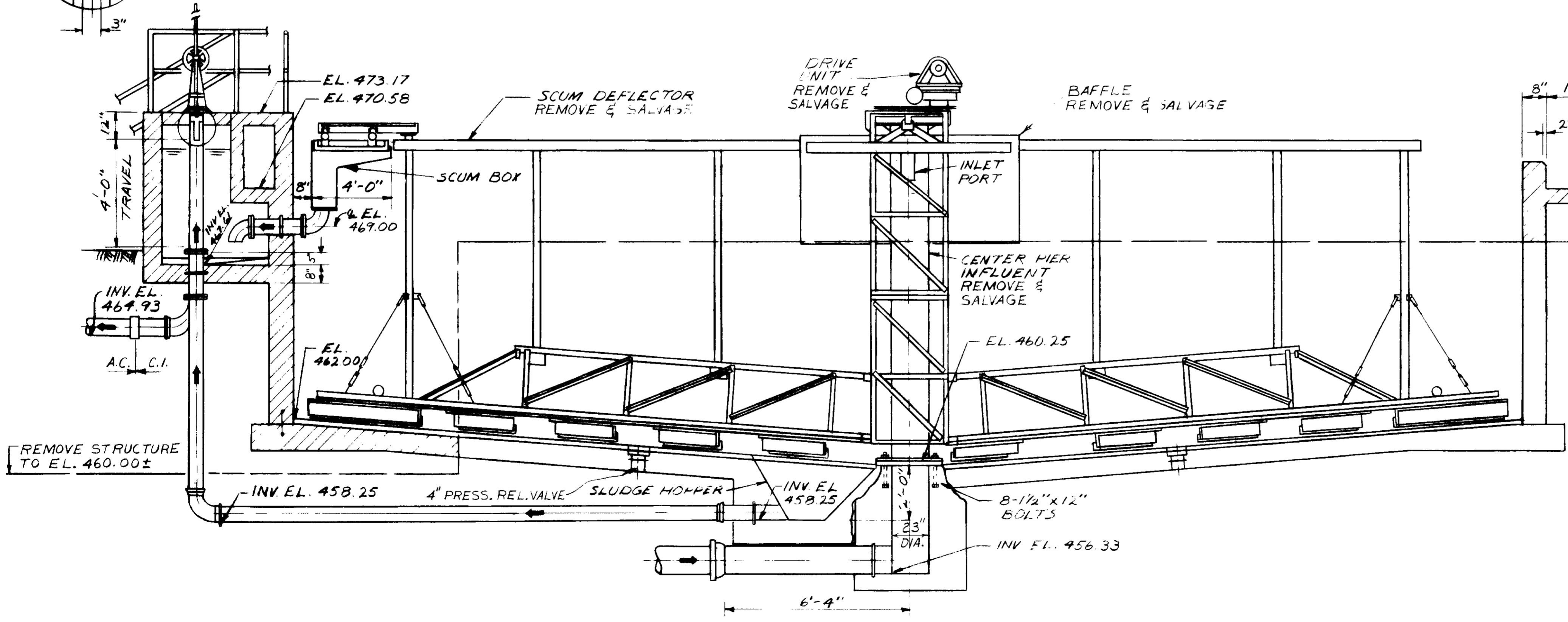
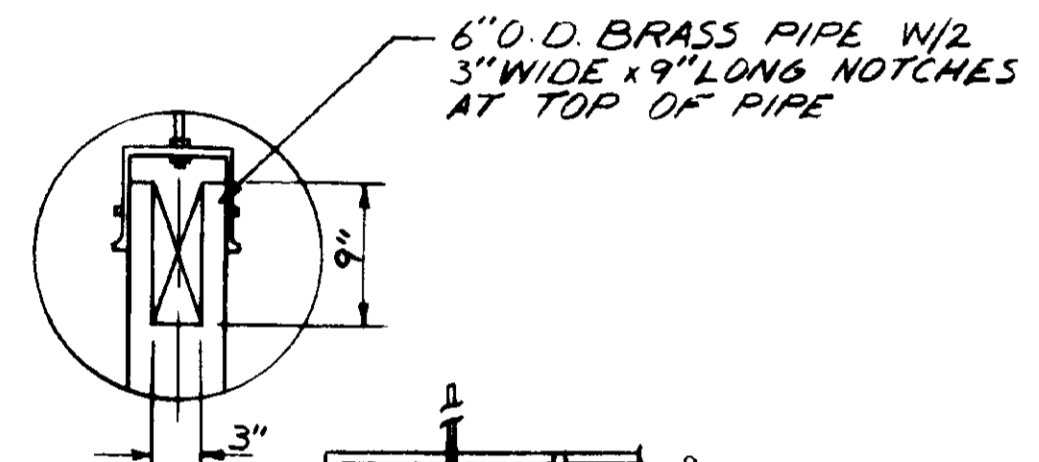


ELEVATION OF INSIDE TANK WALL
SCUM BOX LIP BAFFLE & WIER PLATE ANCHORAGE
1" = 1'-0"



STAIR DETAIL
1" = 1'-0"

SECTION B
SCUM BOX & WIER PLATE
1" = 1'-0"

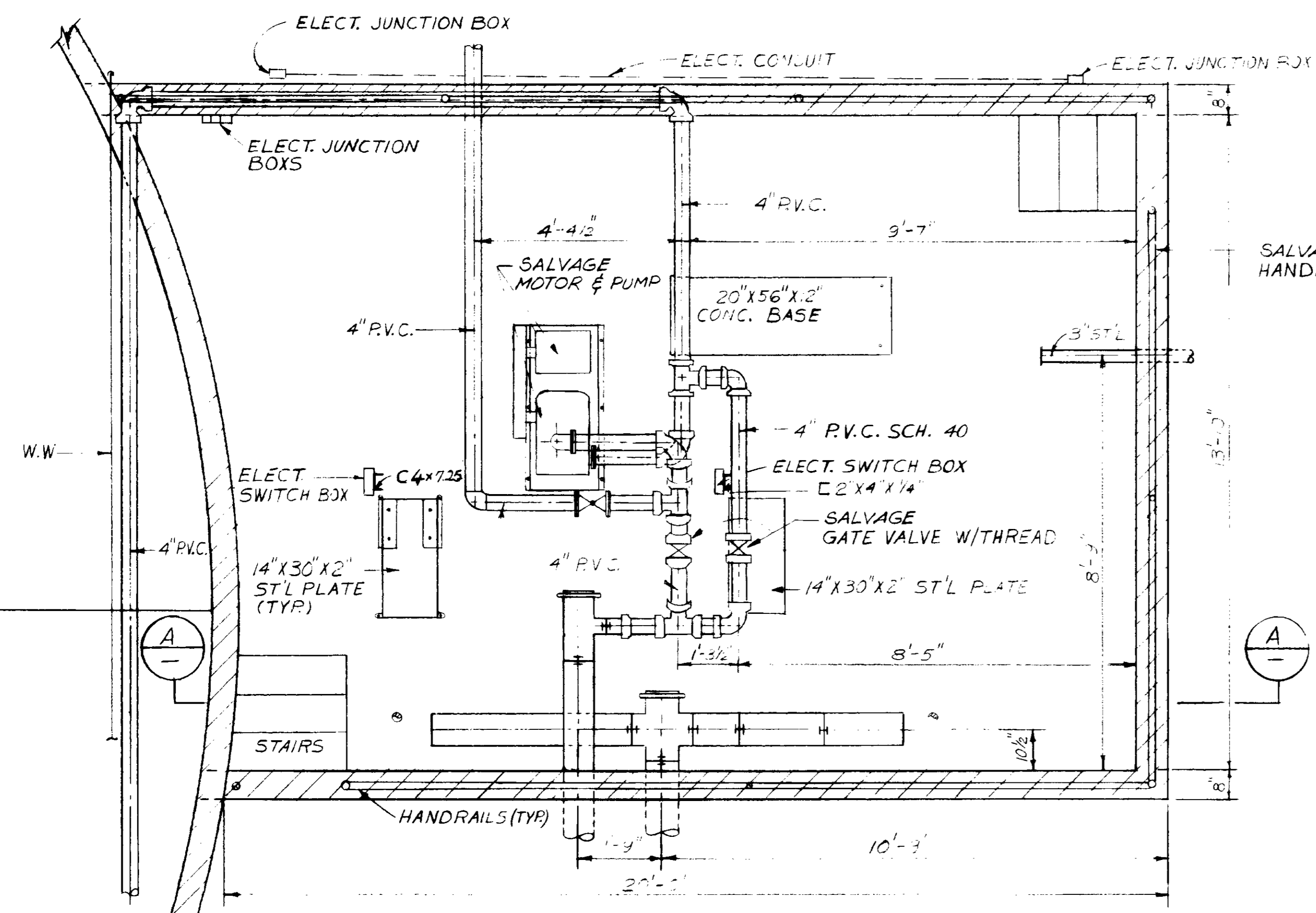
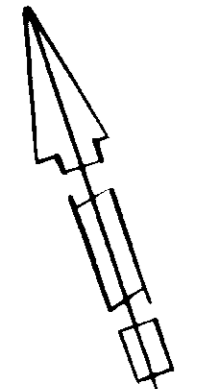


SECTION C
3/8" = 1'-0"

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Y. K. Williams
KATSURA CONSULTING ENGINEERS RCE 14038
March 1985

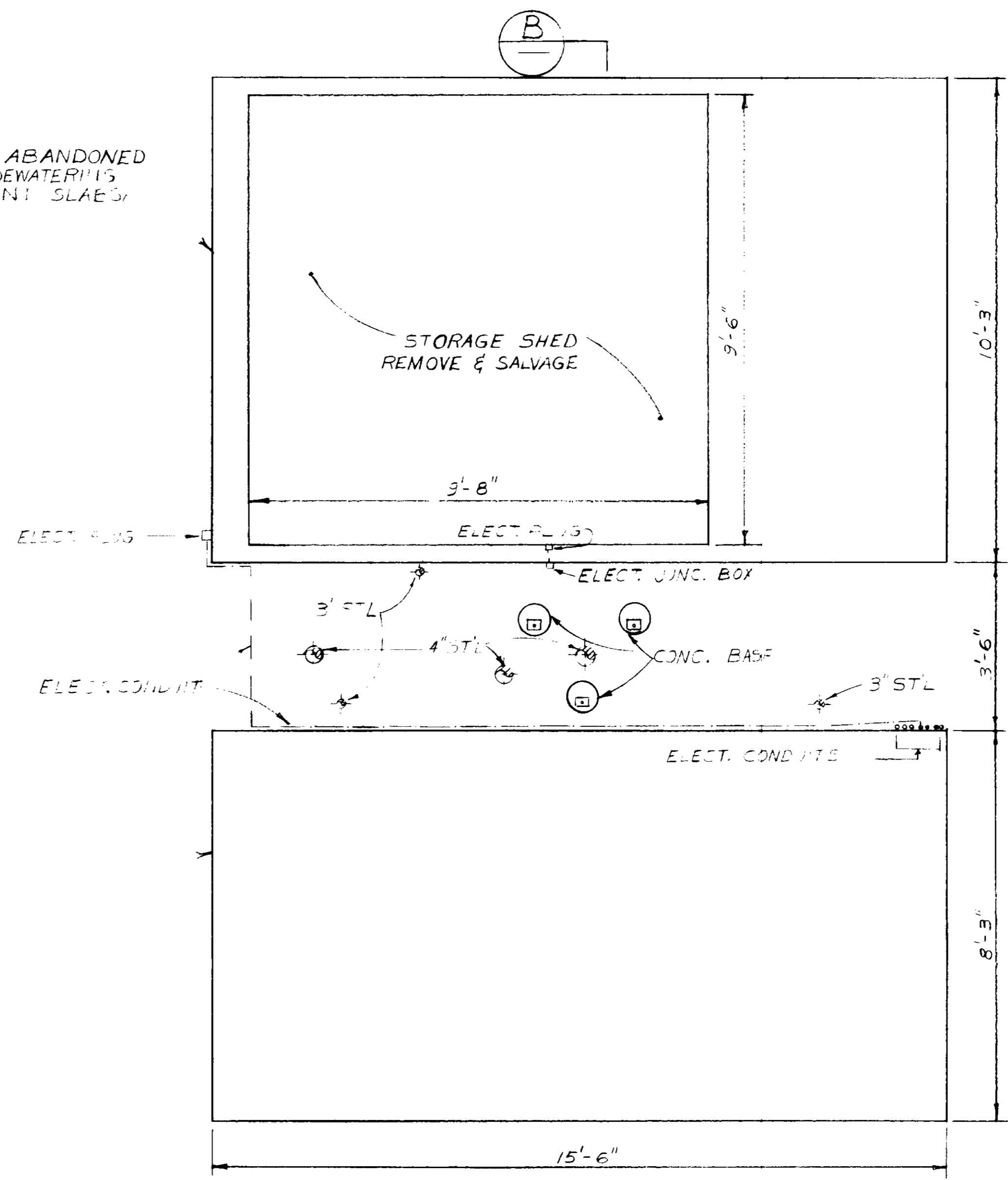
03033

SCALE: AS SHOWN		D.W.V. DESIGNED: J.K.	SUBMITTED: 14038 8/15/79		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. DEMOLITION I EXISTING CIRCULAR CLARIFIER - SECTIONS	SHEET C4-3
REV DATE BY DESCRIPTION		DRAWN: S.K.	PROJECT MANAGER: 14038 8/15/79			
REV	DATE	BY	DESCRIPTION	PROJECT ADMINISTRATOR: 14038 8/15/79		

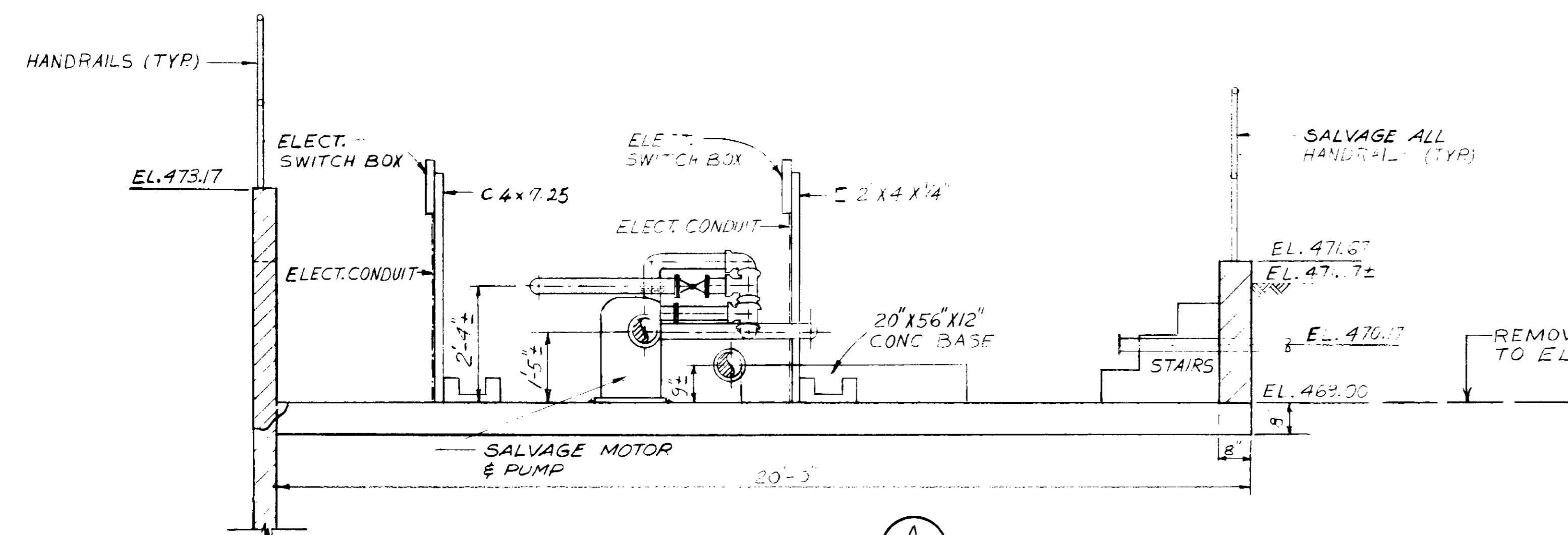


PLAN

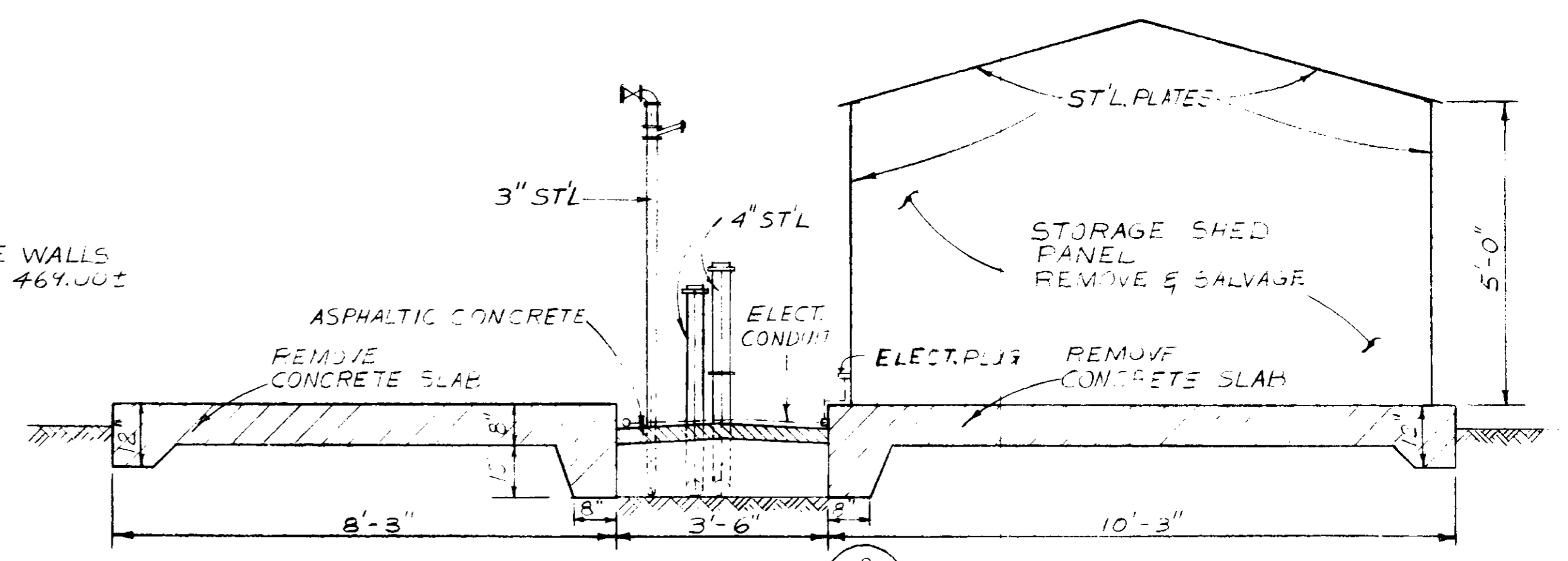
REMOVE ABANDONED
SLUDGE DEWATERING
EQUIPMENT SLABS



PLAN



ELEVATION

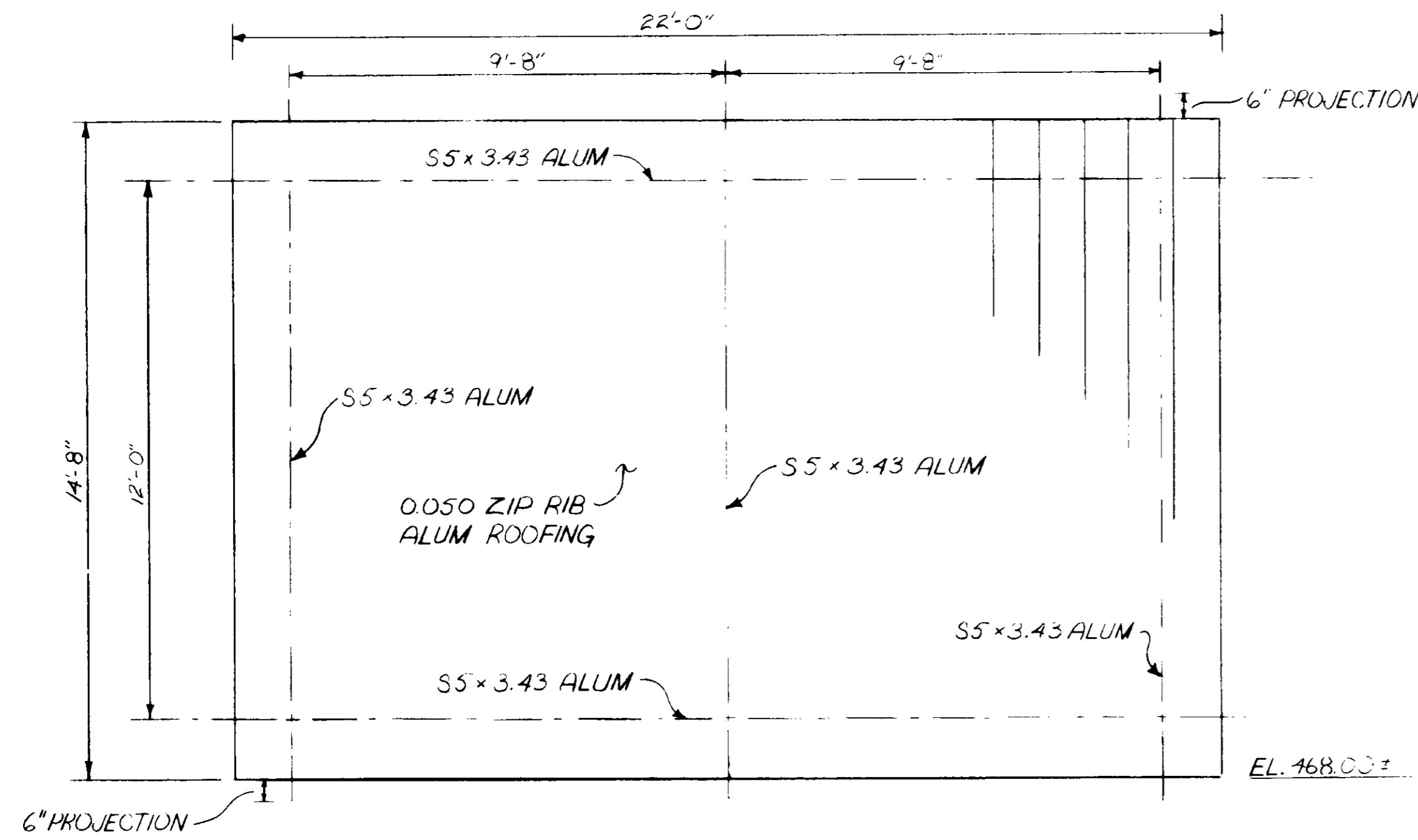


SECTION

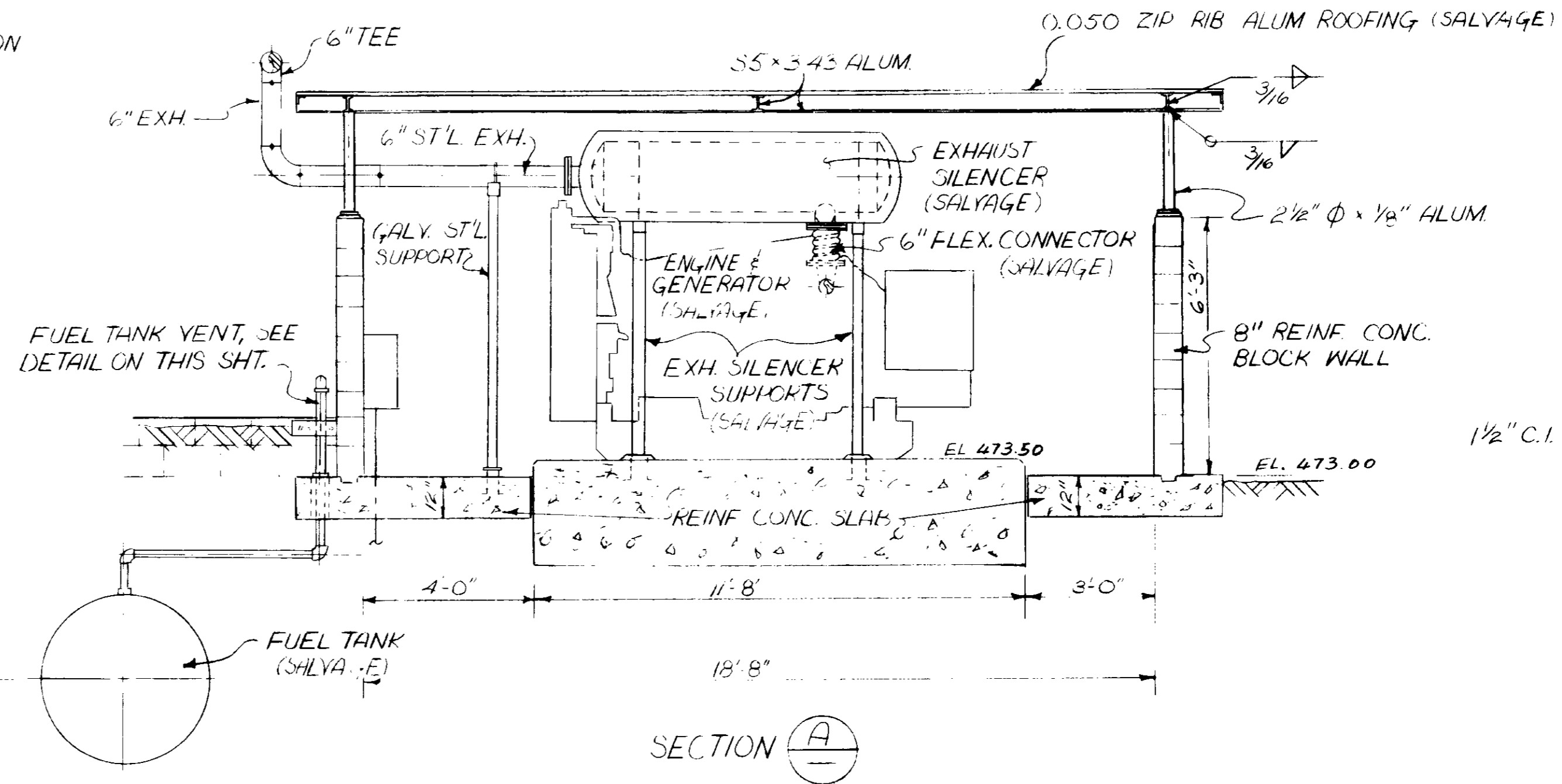
03034

SCALE : $1/2" = 1'-0"$		DWG. DESIGNED AAA DRAWN S.K. CHECKED		SUBMITTED <i>[Signature]</i> PROJECT MANAGER 14038 R.C.E. NO. 8/15/79 DATE		CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. DEMOLITION I ABANDONED DIGESTED SLUDGE PUMP & SLUDGE DEWATERING FACILITIES		SHEET C4-5	
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION				

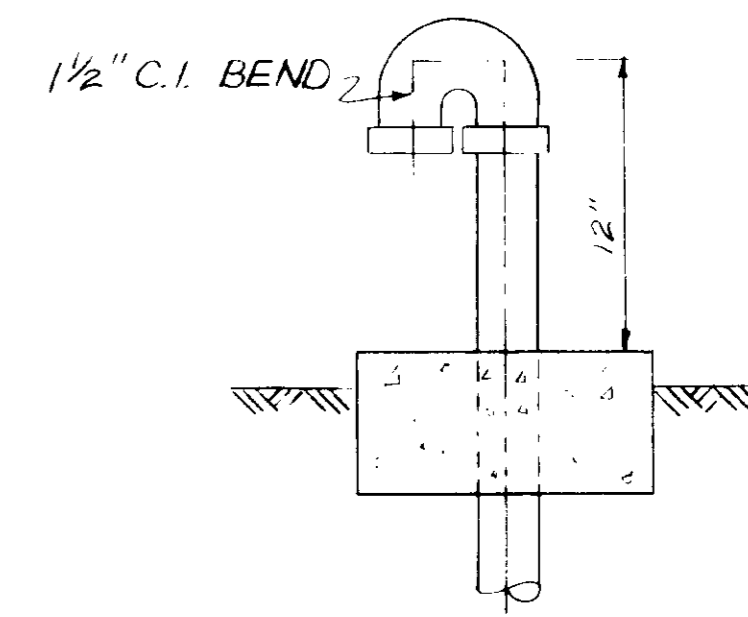
RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper
[Signature]
 KATSURA CONSULTING ENGINEERS
 RCE 14038
 March 1985



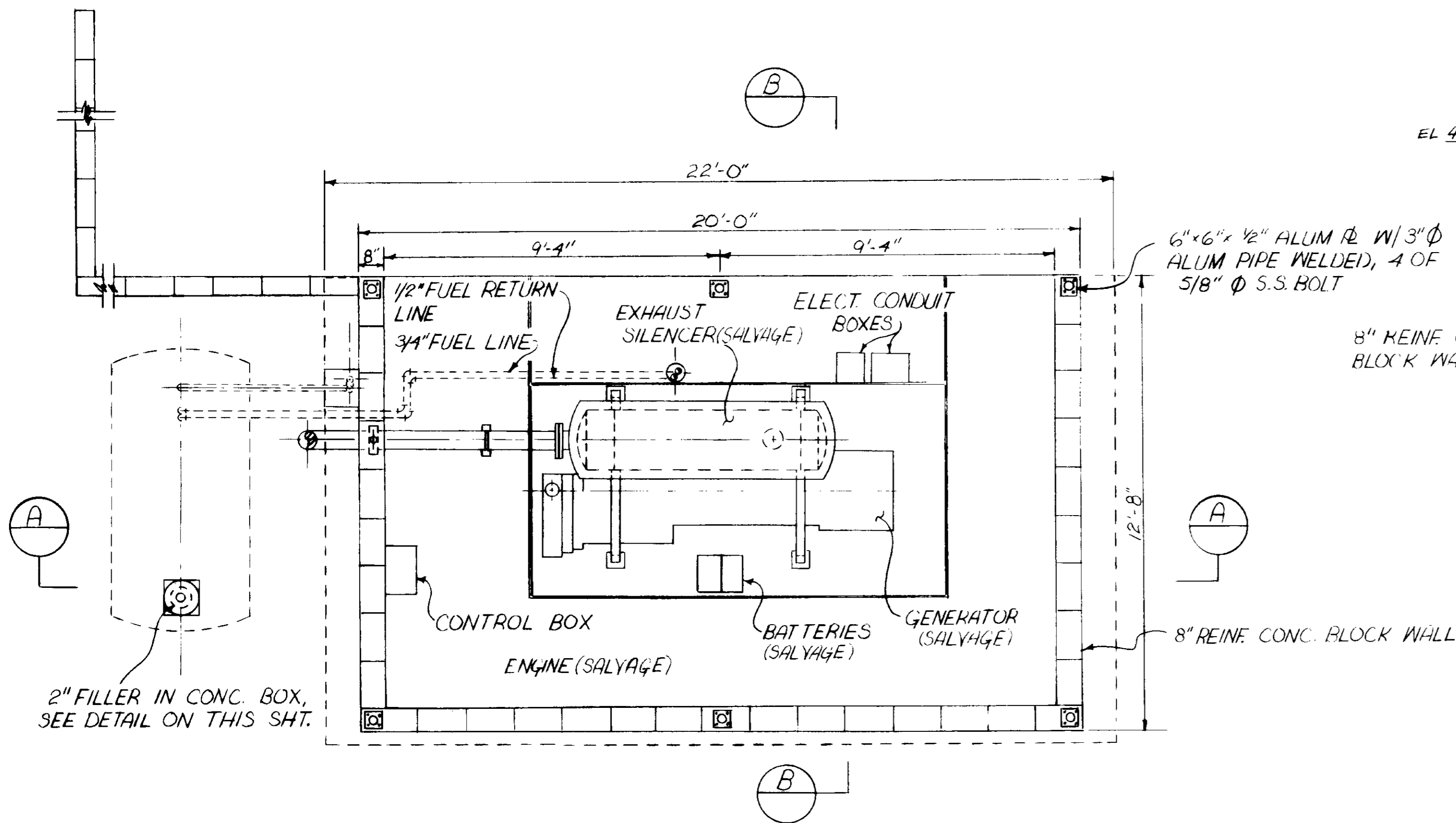
ROOFING PLAN



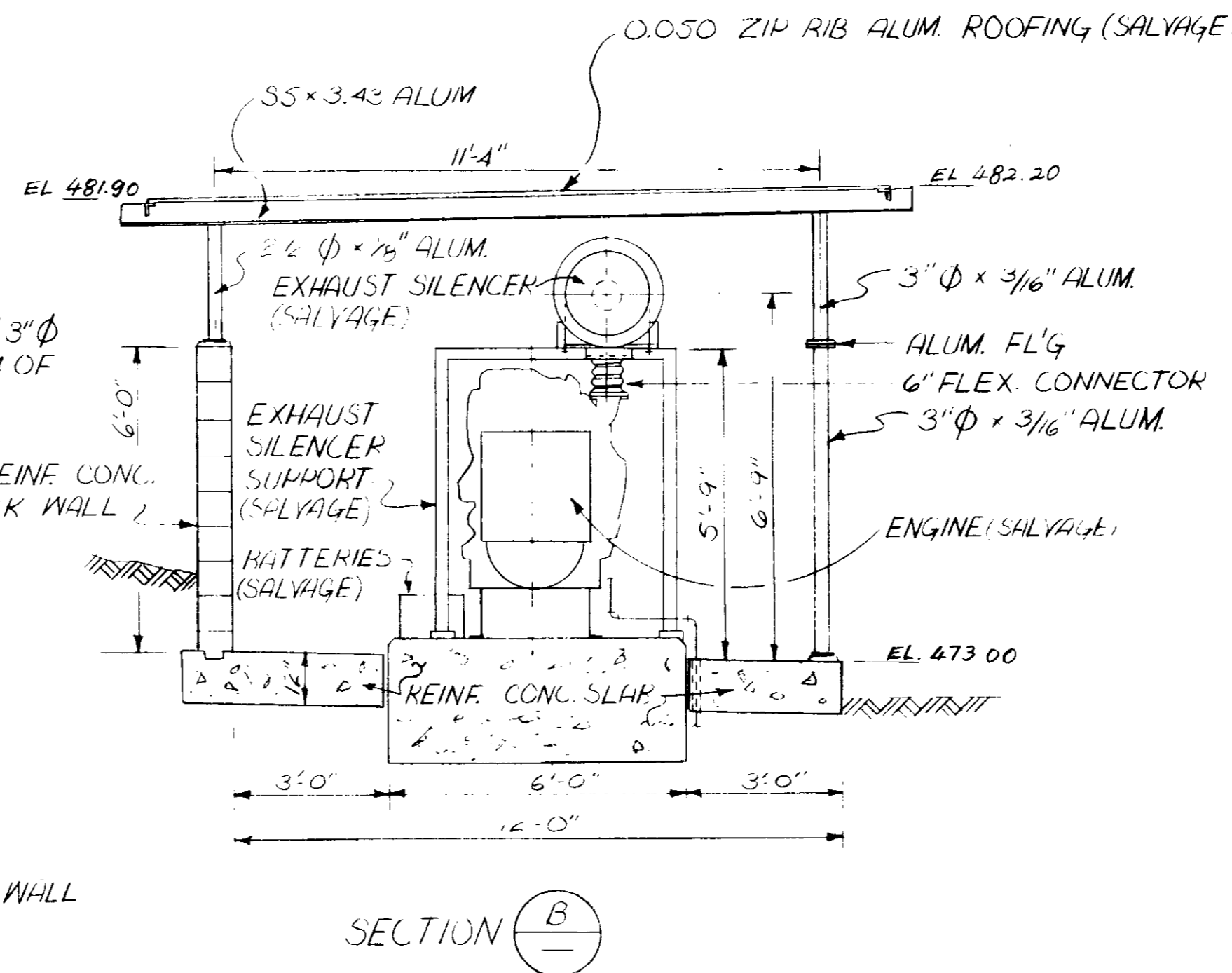
SECTION A



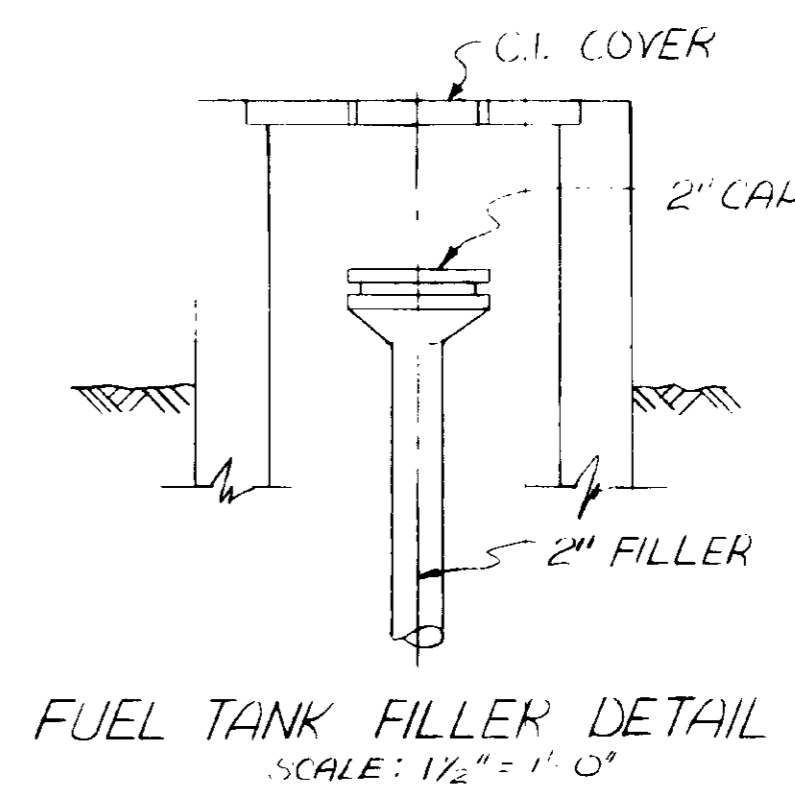
FUEL TANK VENT CAP
NO SCALE



FLOOR PLAN



SECTION B



FUEL TANK FILLER DETAIL
SCALE: 1/2" = 1'-0"

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

Yuh Katsura RCE 14038

KATSURA CONSULTING ENGINEERS March 1985

03035

REV	DATE	BY	DESCRIPTION

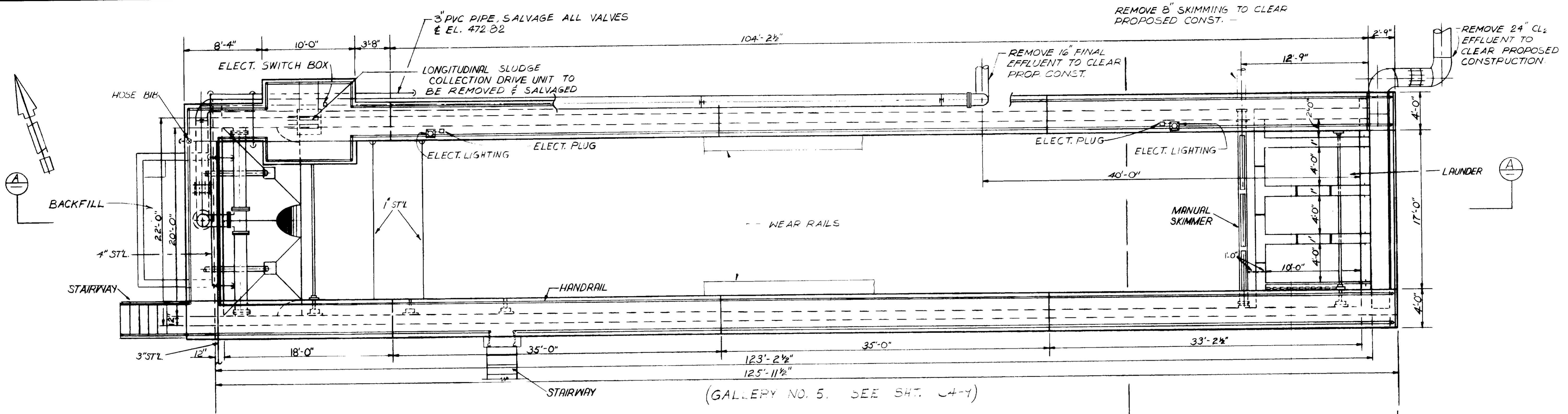
SCALE : 3/8" = 1'-0"	DESIGNED AAA
UNLESS NOTED	DRAWN S.K.
	CHECKED

SUBMITTED <i>Yuh Katsura</i>	14038 11-2-79
PROJECT MANAGER	R.C.E. NO. DATE
PROJECT ADMINISTRATOR <i>Yuh Katsura</i>	14894 11-5-79
	R.C.E. NO. DATE

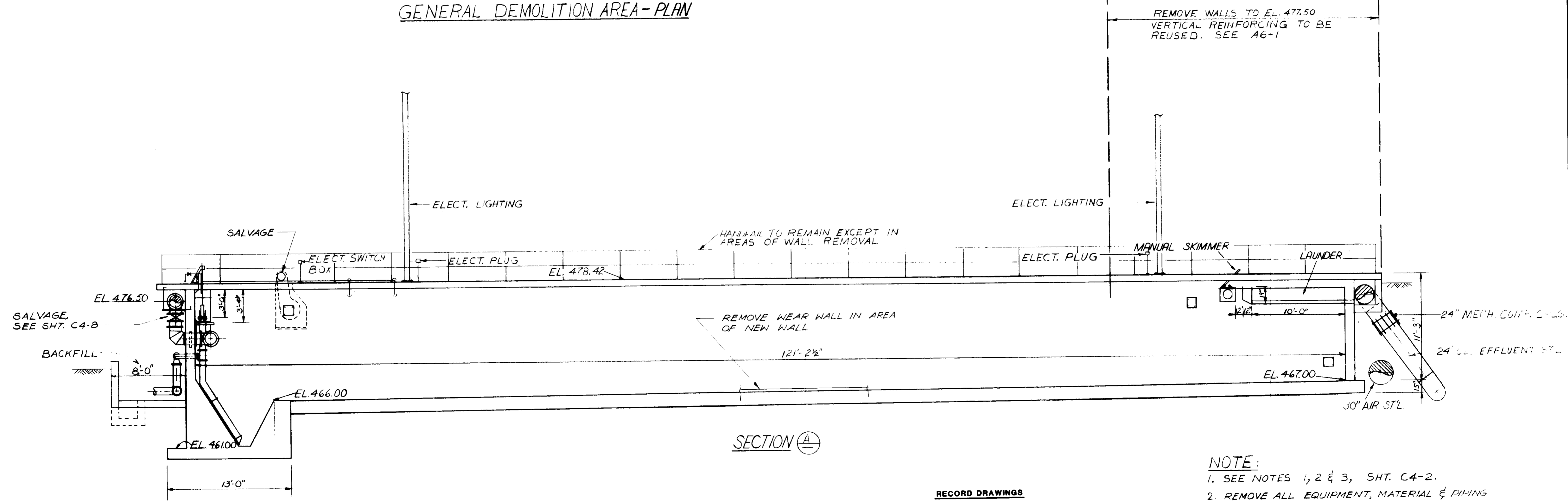
JKS CONSULTING ENGINEERS
A JOINT VENTURE
5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
DEMOLITION I
EMERGENCY GENERATOR

SHEET
C4-6



GENERAL DEMOLITION AREA - PLAN



SECTION A

- NOTE:
1. SEE NOTES 1, 2 & 3, SHT. C4-2.
 2. REMOVE ALL EQUIPMENT, MATERIAL & PIPING EXCEPT AS NOTED.
 3. SEE SPECS. FOR PIPE CAPPING, ETC.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yip K. K. RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

03036

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE :
 $\frac{3}{16} = 1' - 0''$

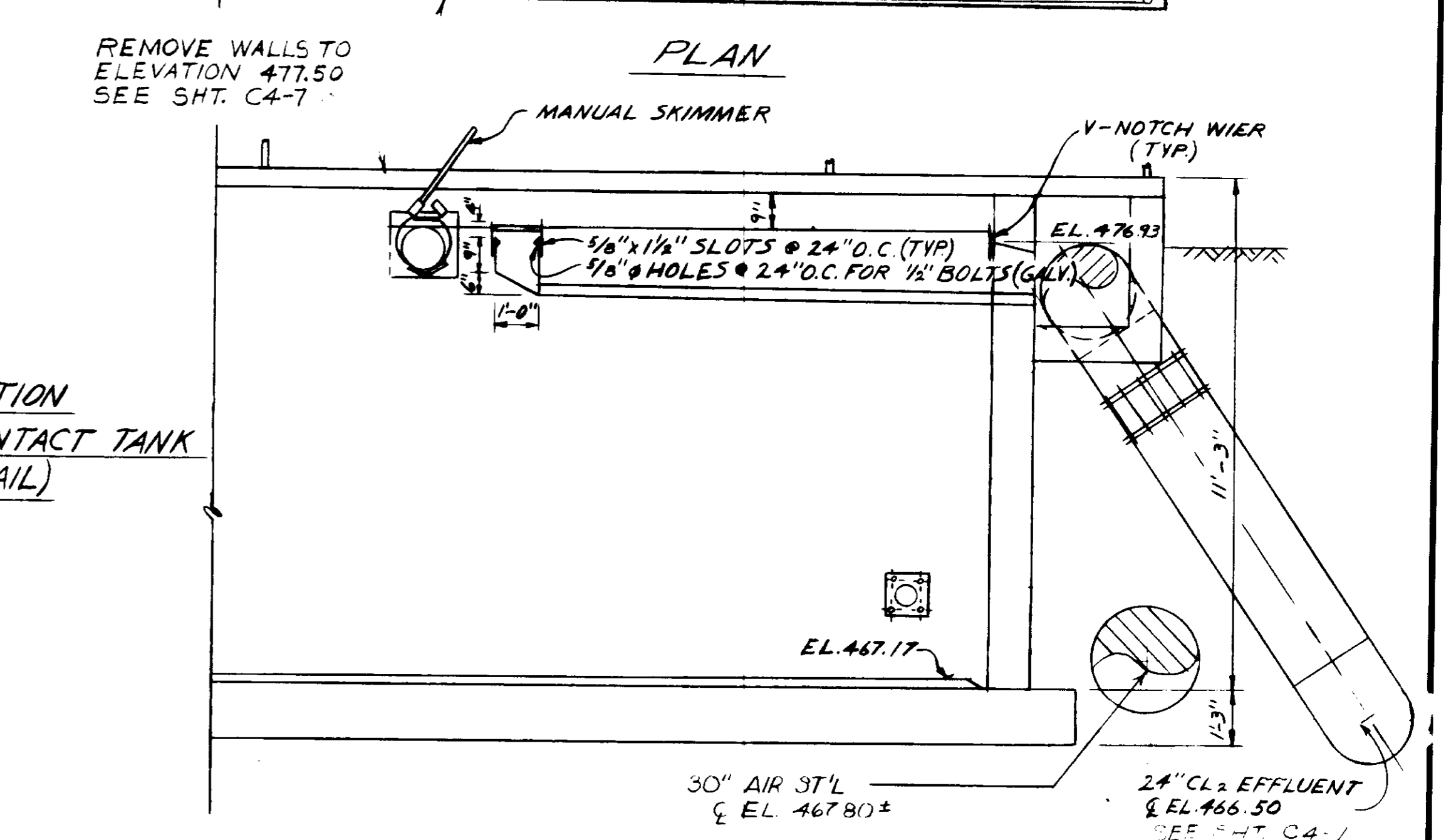
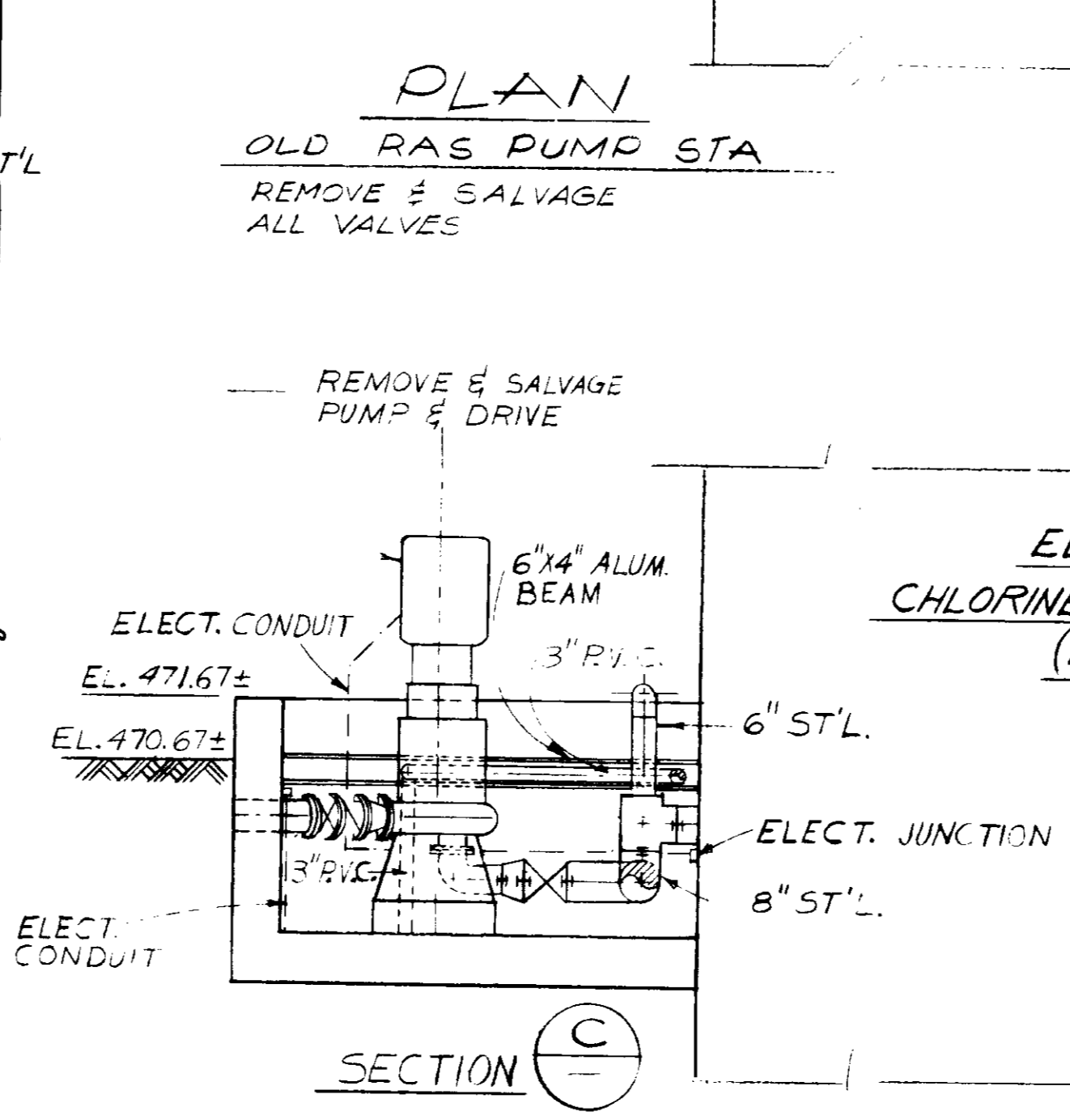
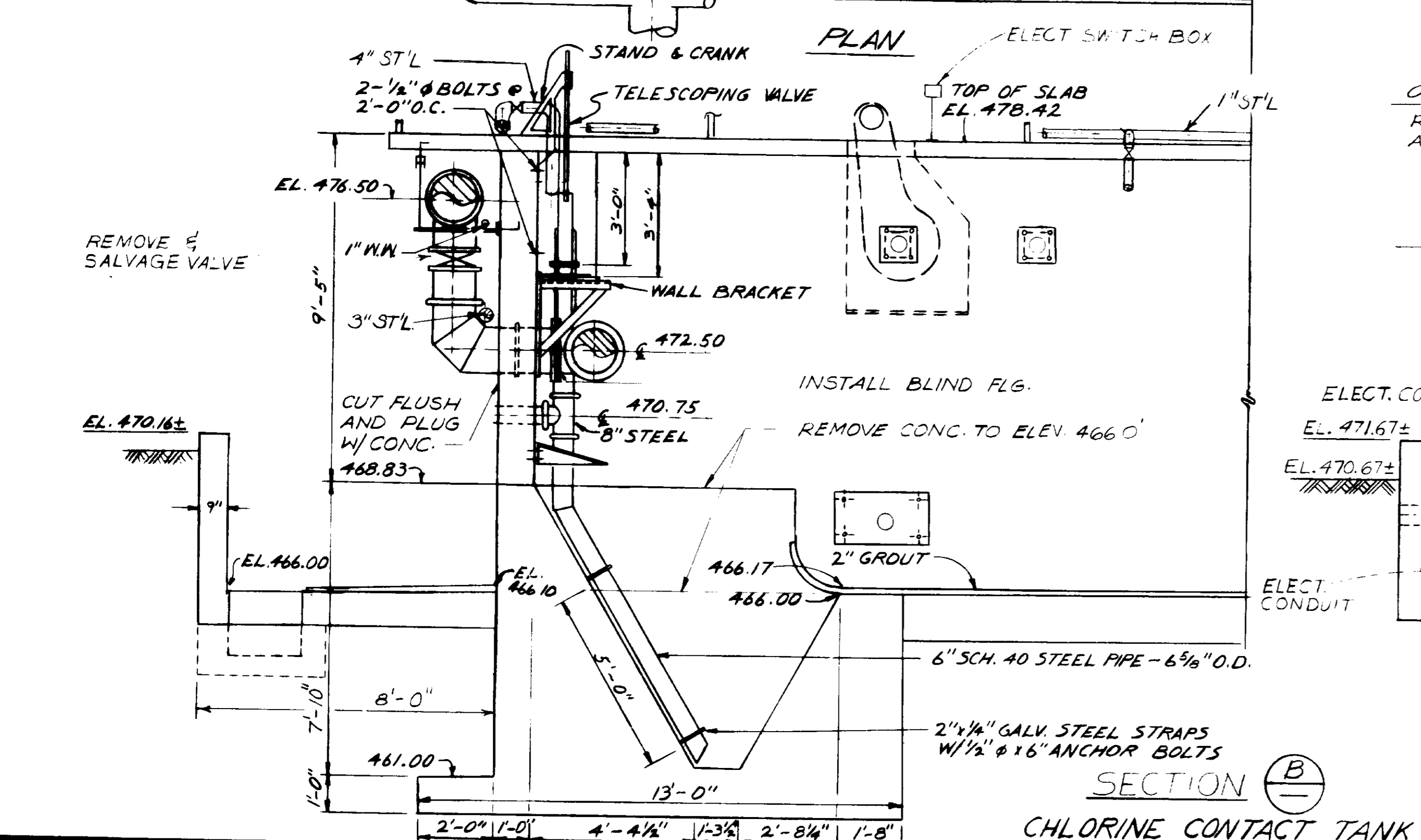
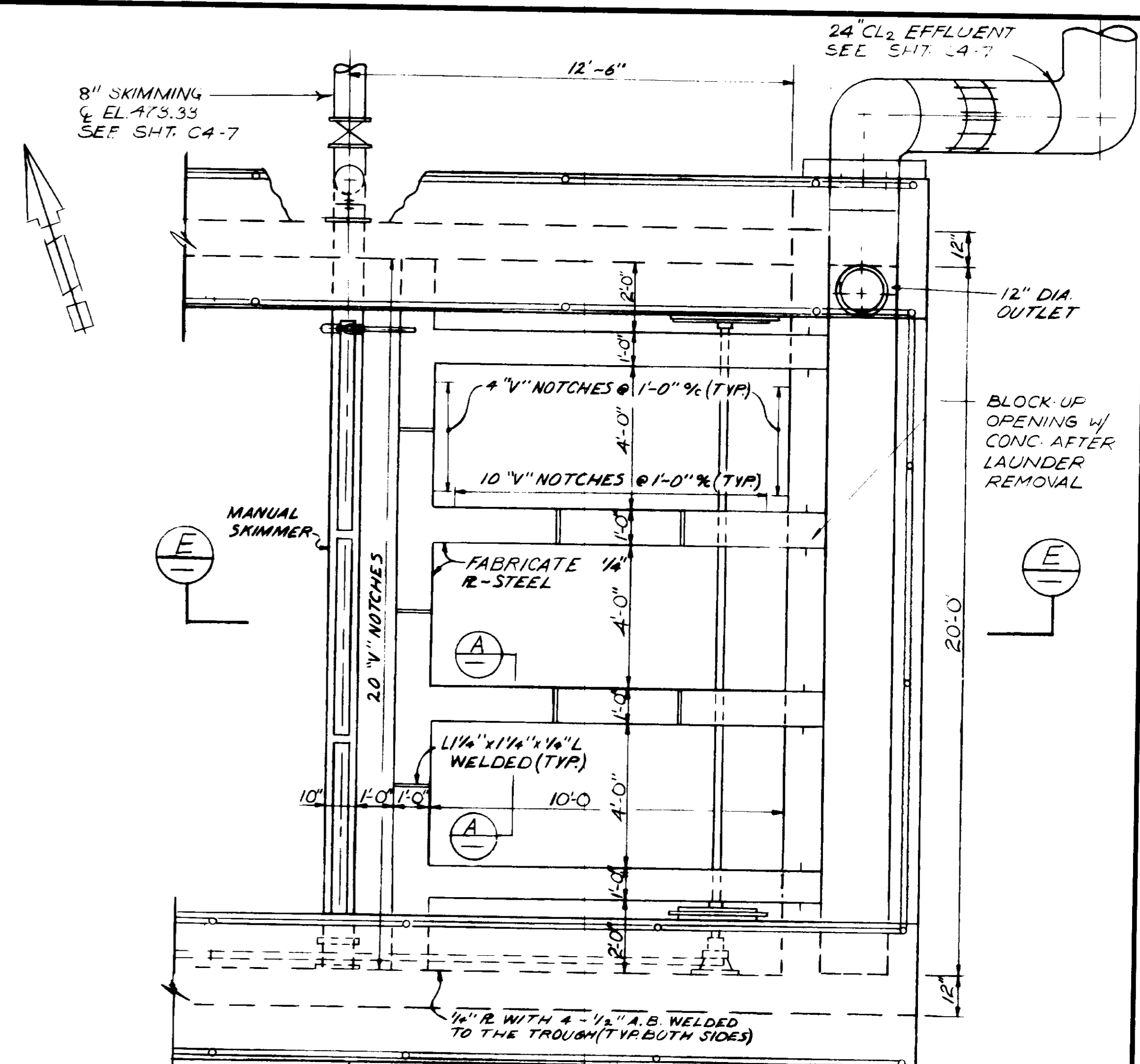
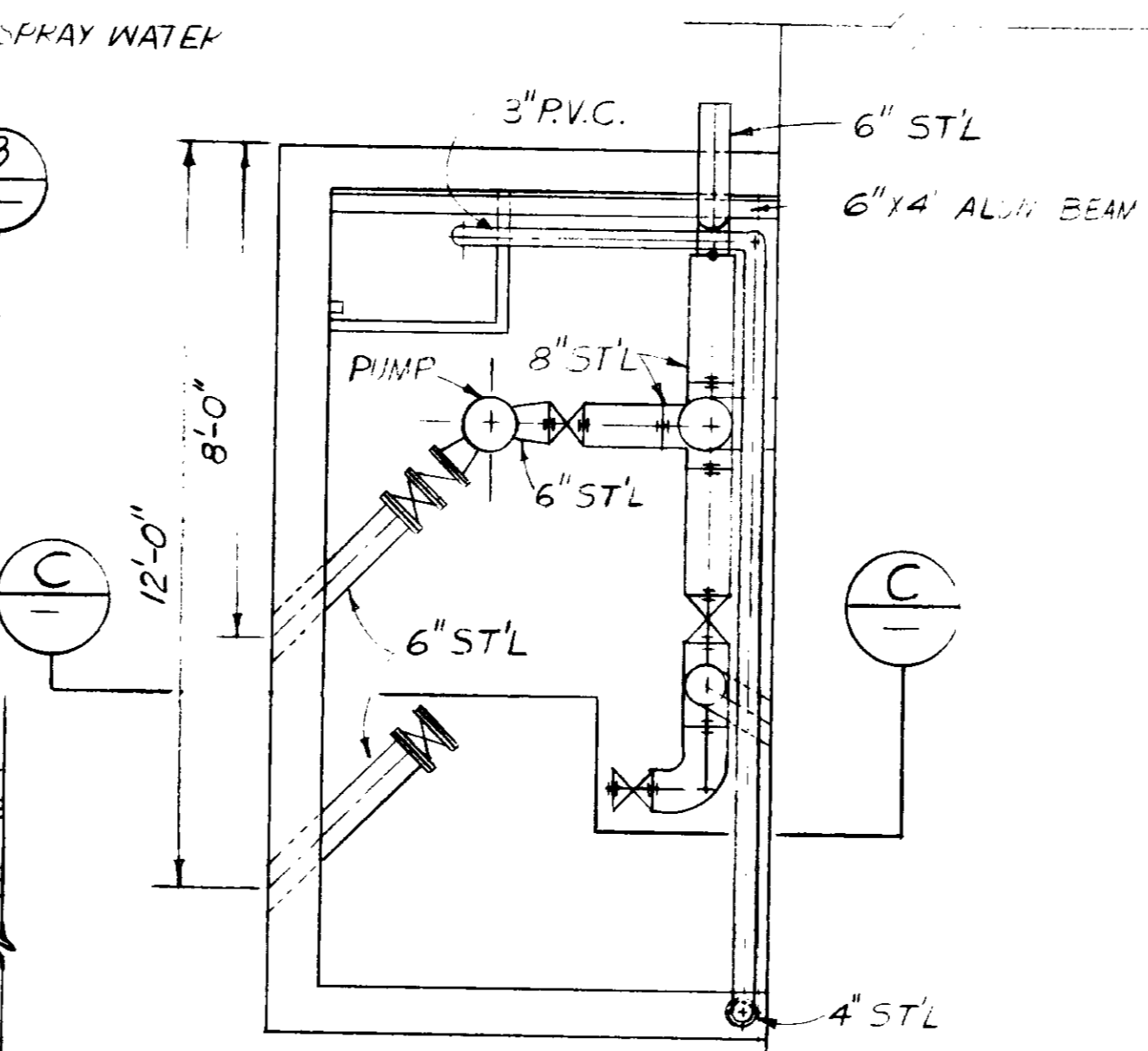
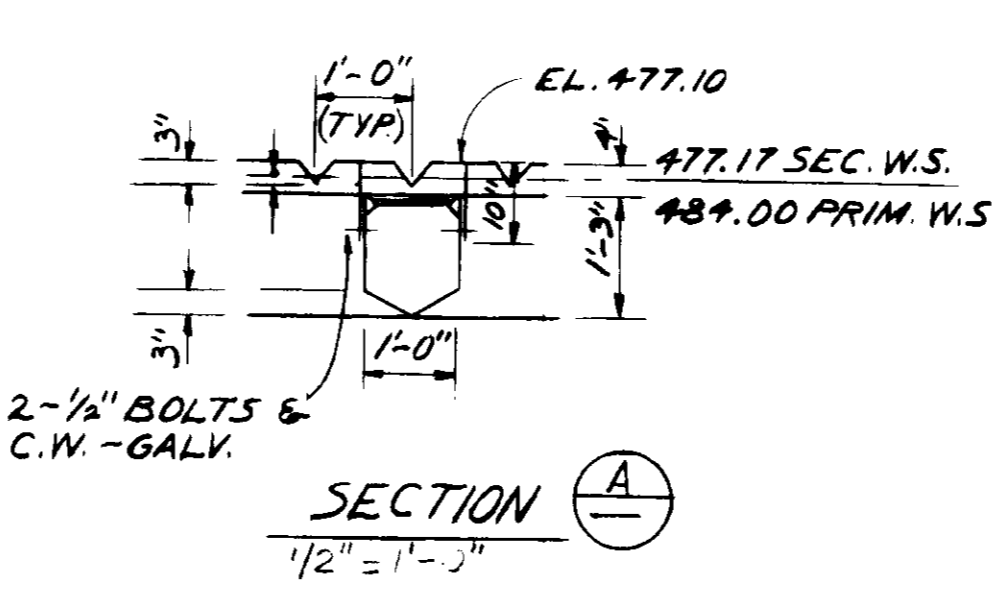
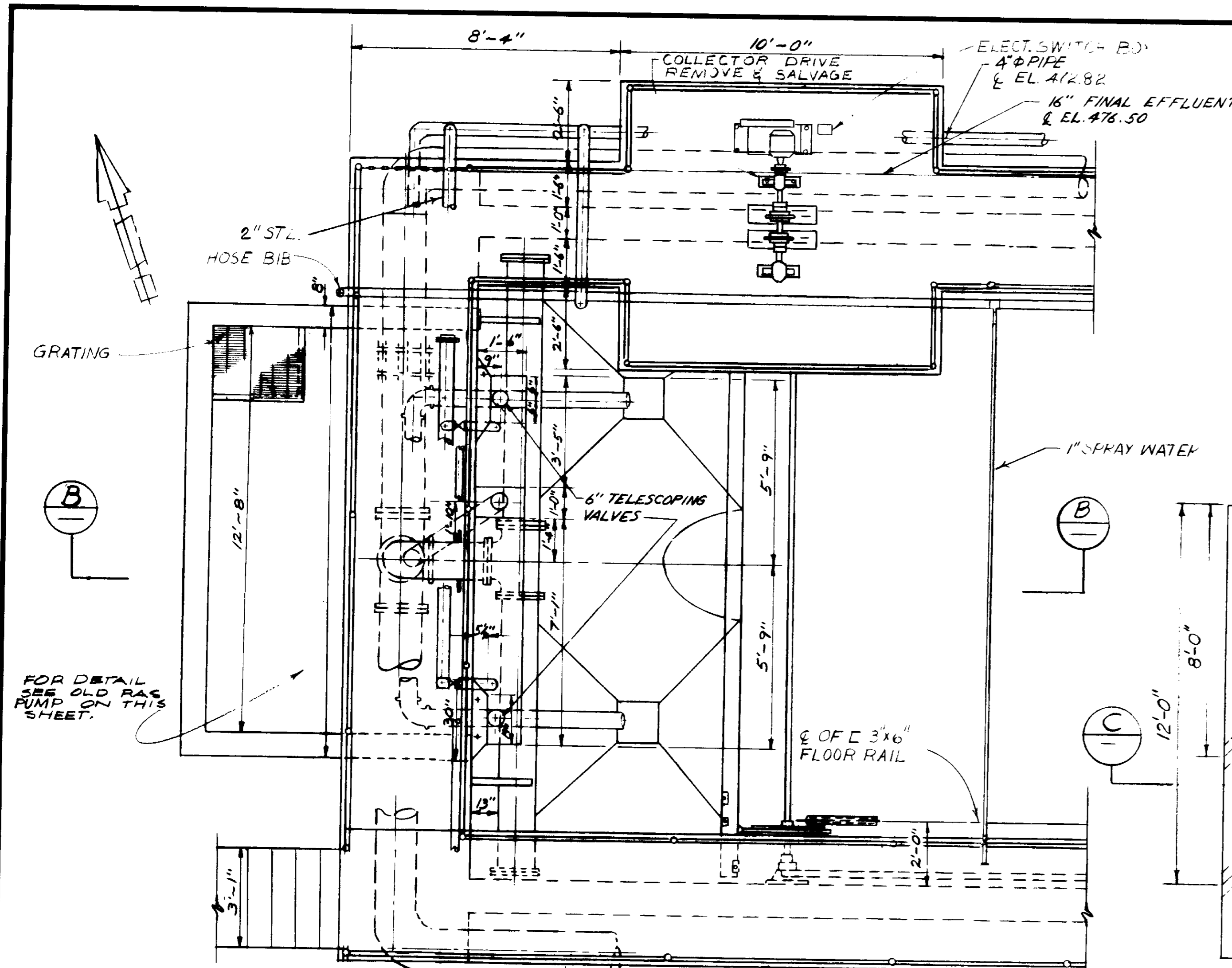
DWY.
 DESIGNED
 AAA
 DRAWN
 S.K.
 CHECKED

SUBMITTED
Yip K. K. 14038 8/15/79
 PROJECT MANAGER R.C.E. NO. DATE
 PROJECT ADMINISTRATOR 14894 8/15/79
 R.C.E. NO. DATE

JK CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD - LOS ANGELES - CALIFORNIA 90018
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION II
 EXISTING CHLORINE CONTACT TANK NO. 1

SHEET
 C4-7



REV	DATE	BY	DESCRIPTION

SCALE :	3" = 1'-0"	UNLESS NOTED
DESIGNED	J.K.	DRAWN
CHECKED	S.K.	PROJECT ADMINISTRATOR

SUBMITTED	14038	8/15/79
DESIGNED	J.K.	R.C.E. NO. DATE
PROJECT MANAGER	14884	8/15/79
CHECKED	S.K.	R.C.E. NO. DATE

J&K CONSULTING ENGINEERS
A JOINT VENTURE
8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 939-1117

03037

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper

Uphold
KATSURA CONSULTING ENGINEERS
RCE 14038
March 1986

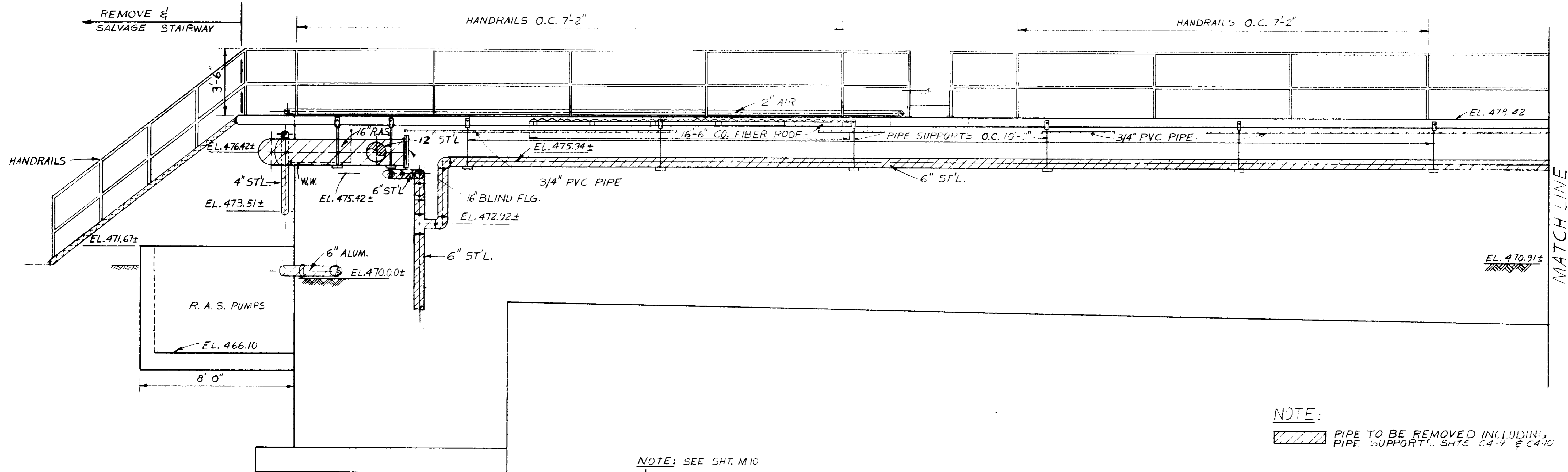
SECTION E

**LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.**

DEMOLITION II
EXISTING CHLORINE CONTACT TANK NO. 1 - DETAILS

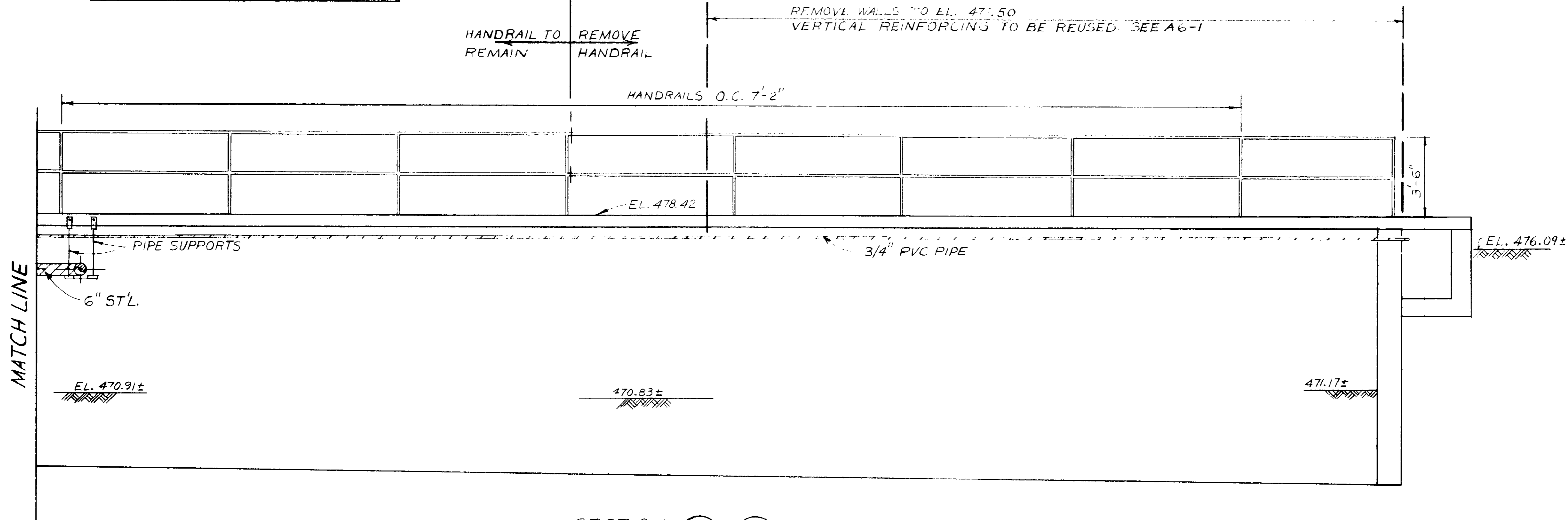
SHEET
C4-8

Sht. 7 of 18



NOTE:
 PIPE TO BE REMOVED INCLUDING PIPE SUPPORTS. SHTS C4-9 & C4-10

NOTE: SEE SHT. M10
 HANDBRAIL TO REMAIN REMOVE HANDBRAIL
 REMOVE WALLS TO EL. 471.50
 VERTICAL REINFORCING TO BE REUSED. SEE A6-1



SECTION A A
C4-14 C4-13

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper

 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

03038

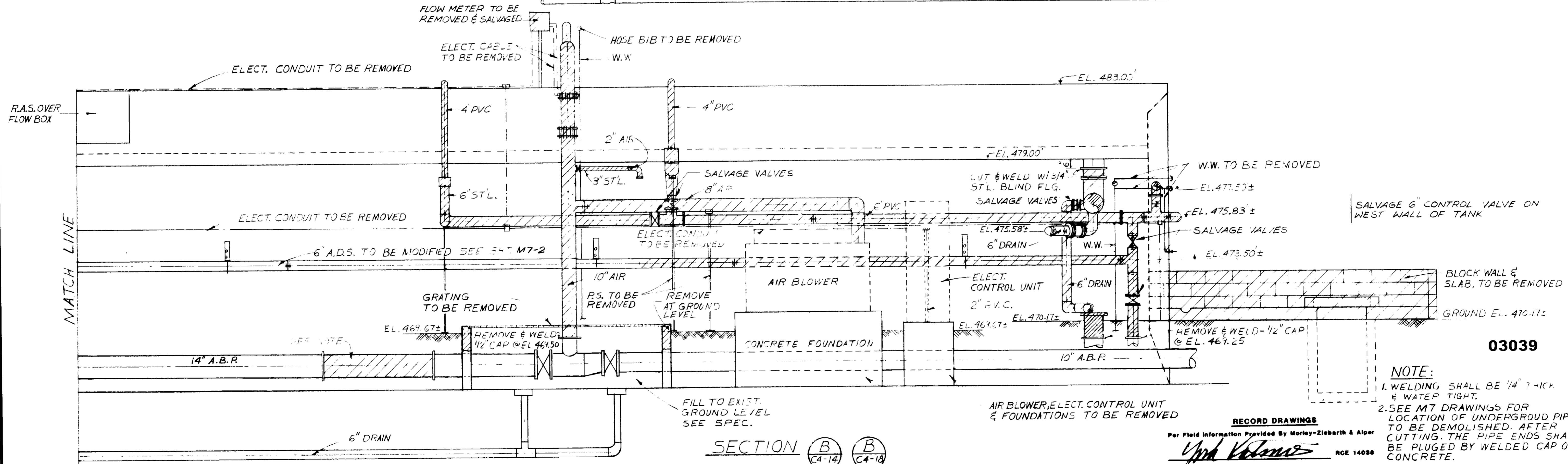
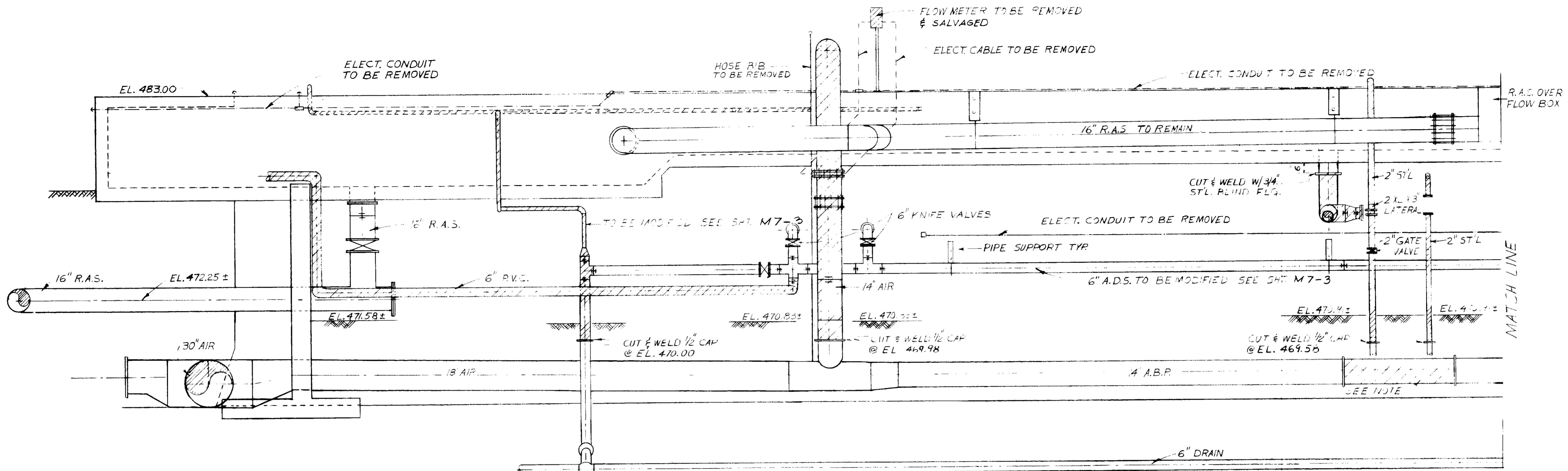
REV	DATE	BY	DESCRIPTION

SCALE : 3/8" = 1'-0"	DWV. DESIGNED DWV DRAWN S.K. CHECKED	SUBMITTAL PROJECT MANAGER 14038 R.C.E. NO. 8/15/79 DATE
		PROJECT ADMINISTRATOR 14894 R.C.E. NO. 8/15/79 DATE

JKE CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION III
 EXISTING PIPE GALLERY NO. 5 - NORTH ELEVATION

SHEET
 C4-9



NOTE:
 1. WELDING SHALL BE 1/4" THICK & WATER TIGHT.
 2. SEE M7 DRAWINGS FOR LOCATION OF UNDERGROUND PIPES TO BE DEMOLISHED AFTER CUTTING. THE PIPE ENDS SHALL BE PLUGGED BY WELDED CAP OR CONCRETE.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh K. Kim
 RCE 14038

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION III
 EXISTING PIPE GALLERY NO. 5 - SOUTH ELEVATION

SHEET
 C4-10

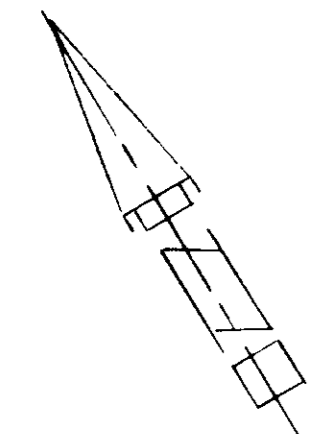
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE
 3/8" = 1'-0"

DWV
 DESIGNED
 DWV
 DRAWN
 S.K.
 CHECKED

SUBMITTED BY
Yuh K. Kim
 PROJECT MANAGER
 14038 8/15/79
 R.C.E. NO. DATE
 PROJECT ADMINISTRATOR
 14894 8/15/79
 R.C.E. NO. DATE

JKK CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

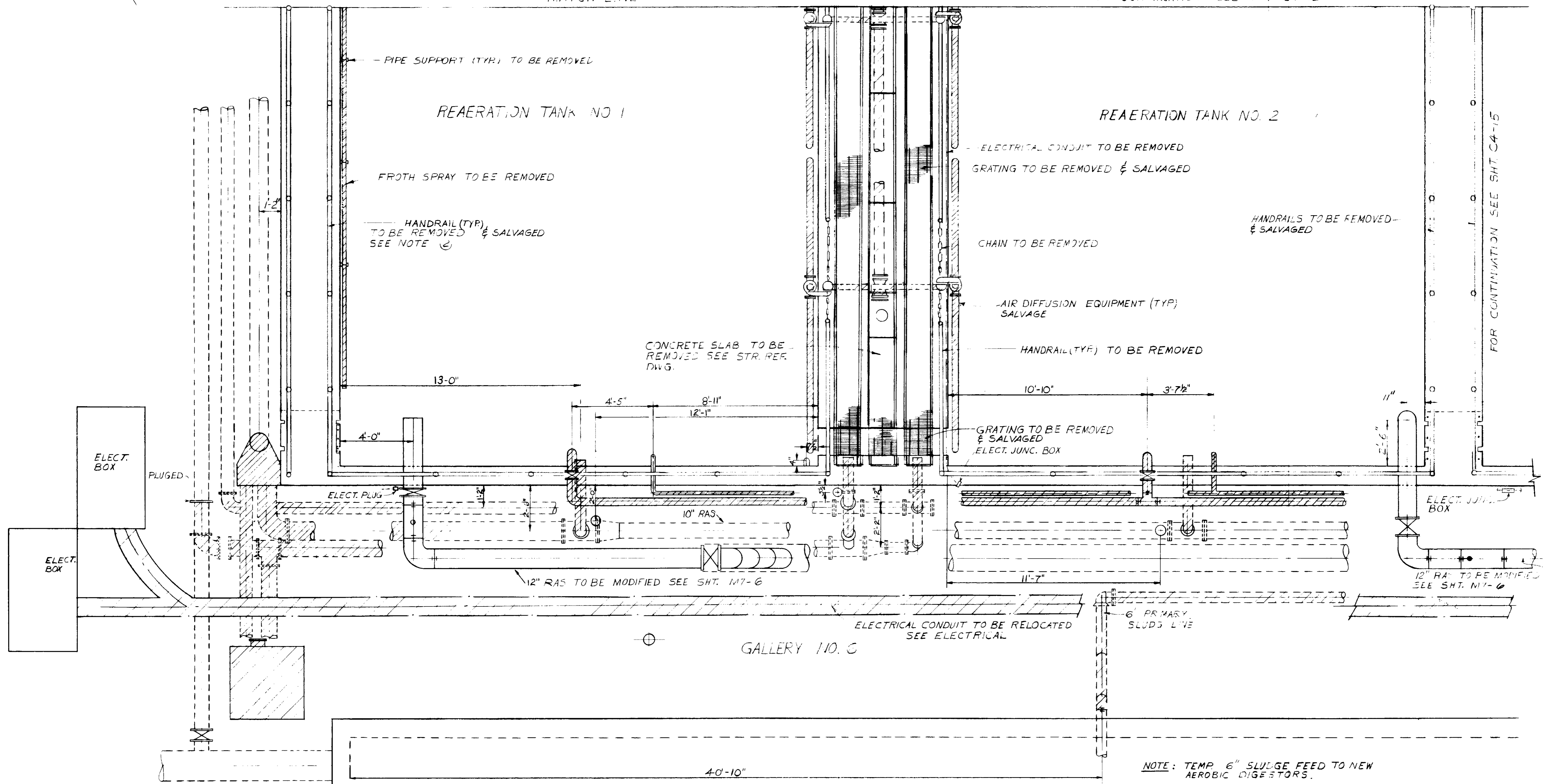


GENERAL NOTE 1 SEE STRUCTURAL DEMOLITION SHT.
 2 HAND RAIL ON SOUTH WALL TO BE MODIFIED SEE MECHANICAL.

LEGEND FACILITIES TO BE REMOVED
 - - - - - UNDERNEATH OF SURFACE
 ——— ABOVE GROUND OR EXPOSED

MATCH LINE

FOR CONTINUATION SEE SHT. C4-12



GALLERY NO. 6

PRIMARY SLUDGE PUMP STATION

PLAN

NOTE: TEMP. 6" SLUDGE FEED TO NEW AEROBIC DIGESTORS.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Upd. Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

03040

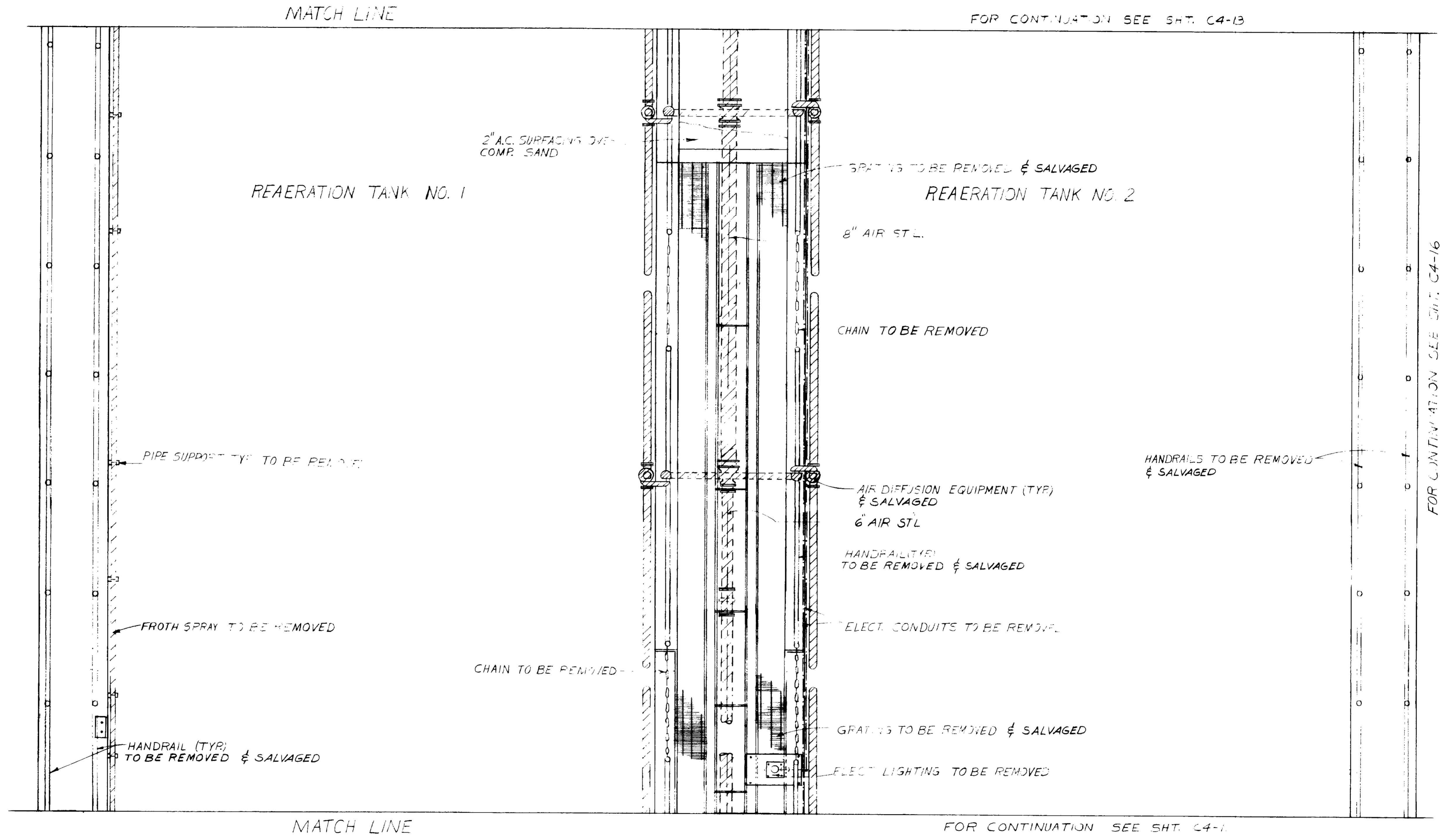
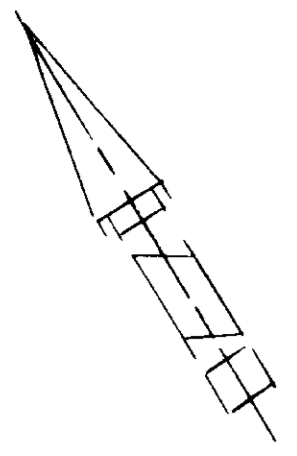
REV	DATE	BY	DESCRIPTION

SCALE :	DWV	SUBMITTER	14038	8/15/79
3/8" = 1'-0"	DESIGNED	PROJECT MANAGER	R.C.E. NO.	DATE
	DWV			
	DRAWN	PROJECT ADMINISTRATOR	14884	8/15/79
	CHECKED		R.C.E. NO.	DATE

JK CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION II
 EXISTING AEROBIC DIGESTERS & REAERATION TANKS

SHEET
 C4-11



PLAN

03041

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yoshitaka
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

REV	DATE	BY	DESCRIPTION

SCALE : $3\frac{3}{8}'' = 1' - 0''$

DWV. DESIGNED
 DWV. DRAWN
 S.K. CHECKED

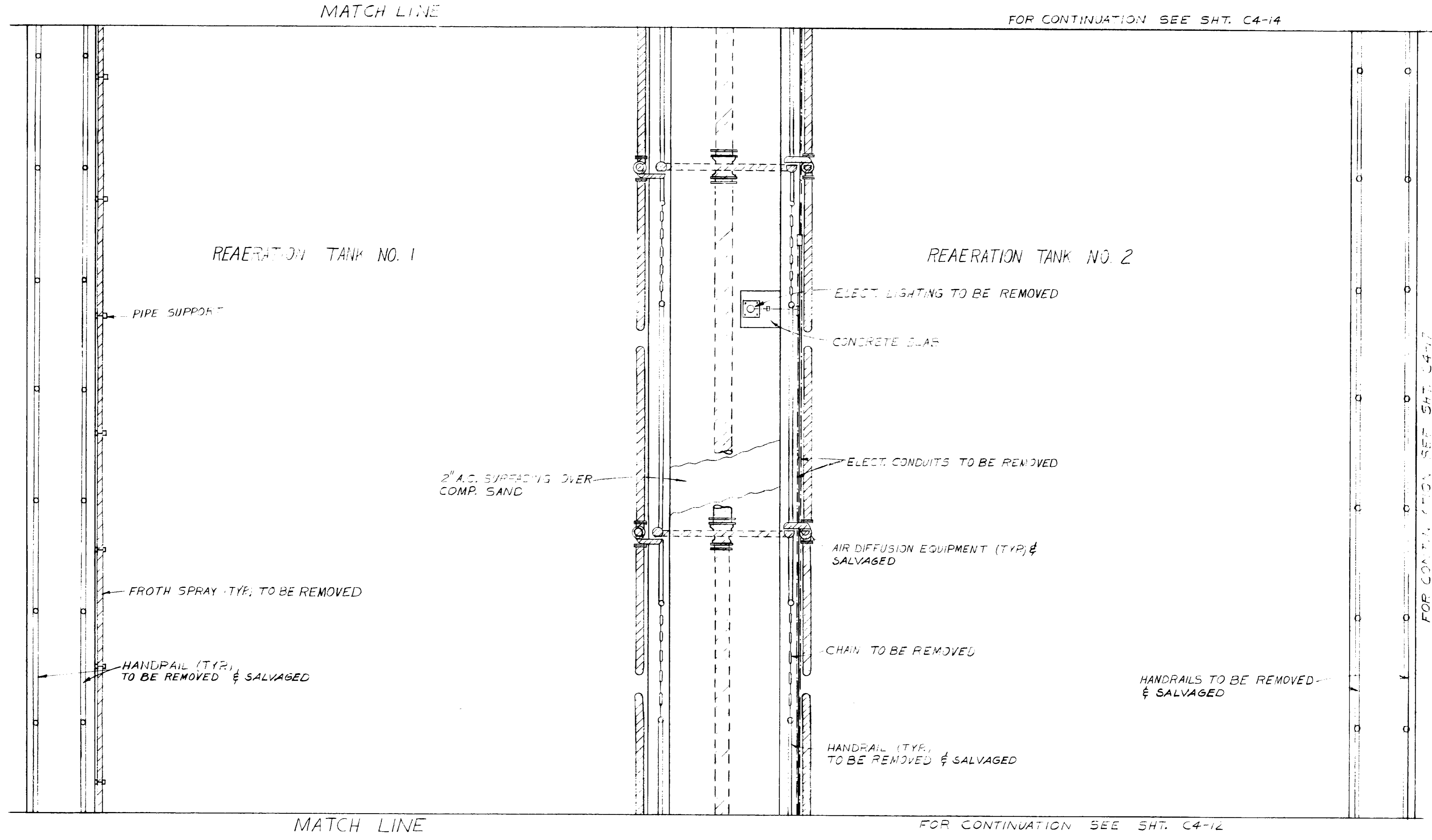
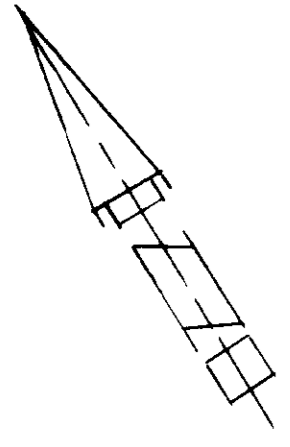
SUBMITTED *[Signature]* 14038 8/15/79
 PROJECT MANAGER R.C.E. NO. DATE

PROJECT ADMINISTRATOR 14884 8/15/79
 R.C.E. NO. DATE

JK CONSULTING ENGINEERS
 A JOINT VENTURE
 6601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION IV
 EXISTING AEROBIC DIGESTERS & REAERATION TANKS

SHEET
 C4-12



MATCH LINE

FOR CONTINUATION SEE SHT. C4-14

REAERATION TANK NO. 1

REAERATION TANK NO. 2

PIPE SUPPORT

ELECT. LIGHTING TO BE REMOVED

CONCRETE SLAB

2" A.C. SPREADING OVER COMP. SAND

ELECT. CONDUITS TO BE REMOVED

FROTH SPRAY (TYP.) TO BE REMOVED

AIR DIFFUSION EQUIPMENT (TYP.) & SALVAGED

HANDRAIL (TYP.) TO BE REMOVED & SALVAGED

CHAIN TO BE REMOVED

HANDRAILS TO BE REMOVED & SALVAGED

HANDRAIL (TYP.) TO BE REMOVED & SALVAGED

MATCH LINE

FOR CONTINUATION SEE SHT. C4-12

FOR CONTINUATION SEE SHT. C4-17

03042

PLAN

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yoshitomo
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

REV	DATE	BY	DESCRIPTION

SCALE :
 $\frac{3}{8}'' = 1'-0''$

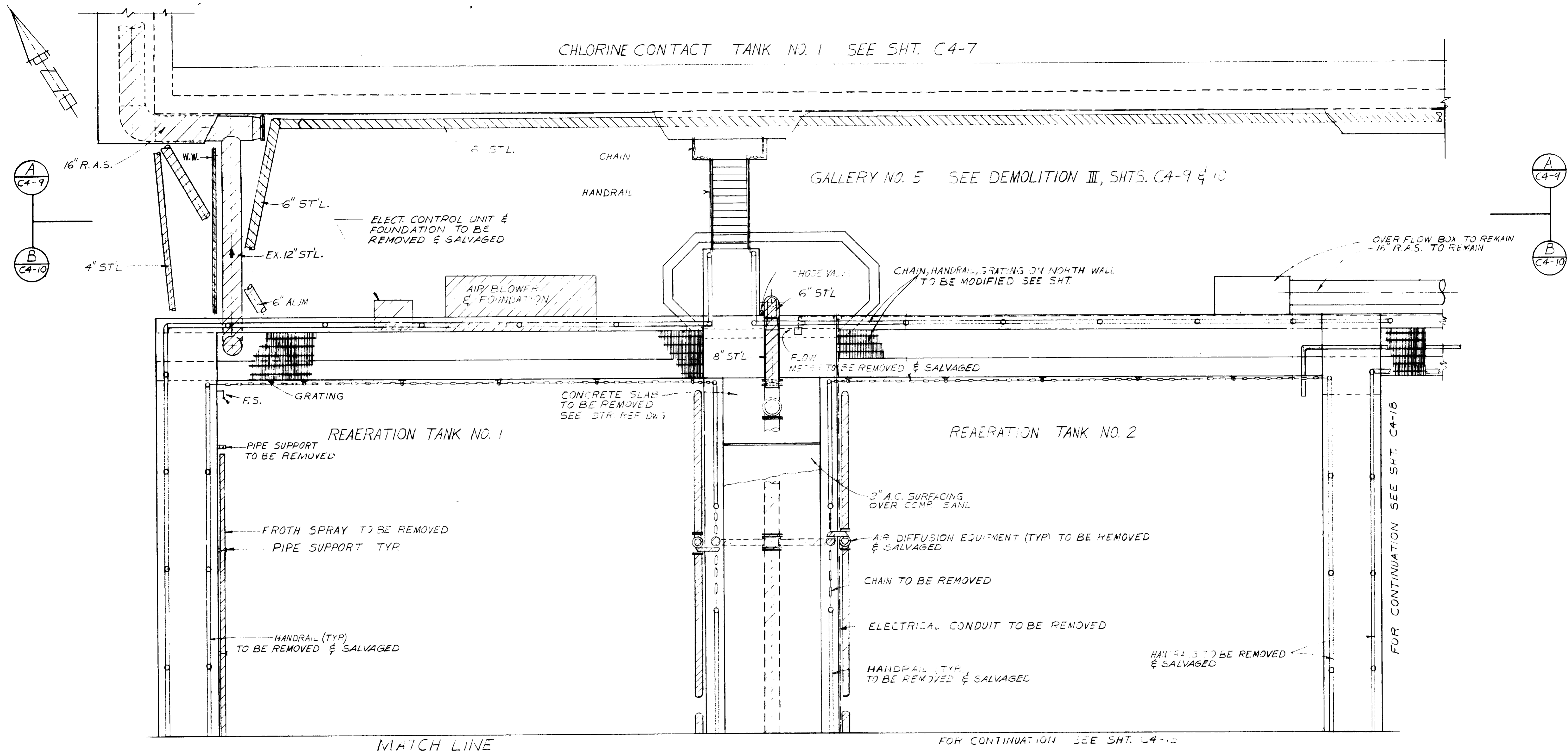
DESIGNED: DWV.
 DRAWN: S.K.
 CHECKED: S.K.

SUBMITTED: *Glattman* 14038 8/15/79
 PROJECT MANAGER R.C.E. NO. DATE
 PROJECT ADMINISTRATOR: *Glattman* 14894 8/15/79
 R.C.E. NO. DATE

JKK CONSULTING ENGINEERS
 A JOINT VENTURE
 8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION IV
 EXISTING AEROBIC DIGESTERS & REAERATION TANKS

SHEET
 C4-13



PLAN

03043

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Ynd. Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

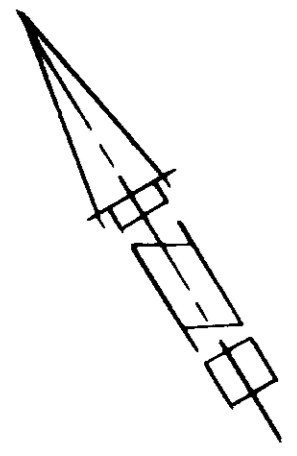
SCALE : $\frac{3}{8}'' = 1' - 0''$
 DWV. DESIGNED
 DWV. DRAWN
 S.K. CHECKED

SUBMITTED BY: *Ynd. Katsura*
 PROJECT MANAGER
 14038 8/15/79
 R.C.E. NO. DATE
 PROJECT ADMINISTRATOR
 14894 6/15/79
 R.C.E. NO. DATE

JKC CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION IV
 EXISTING AEROBIC DIGESTERS & REAERATION TANKS

SHEET
 C4-14



MATCH LINE

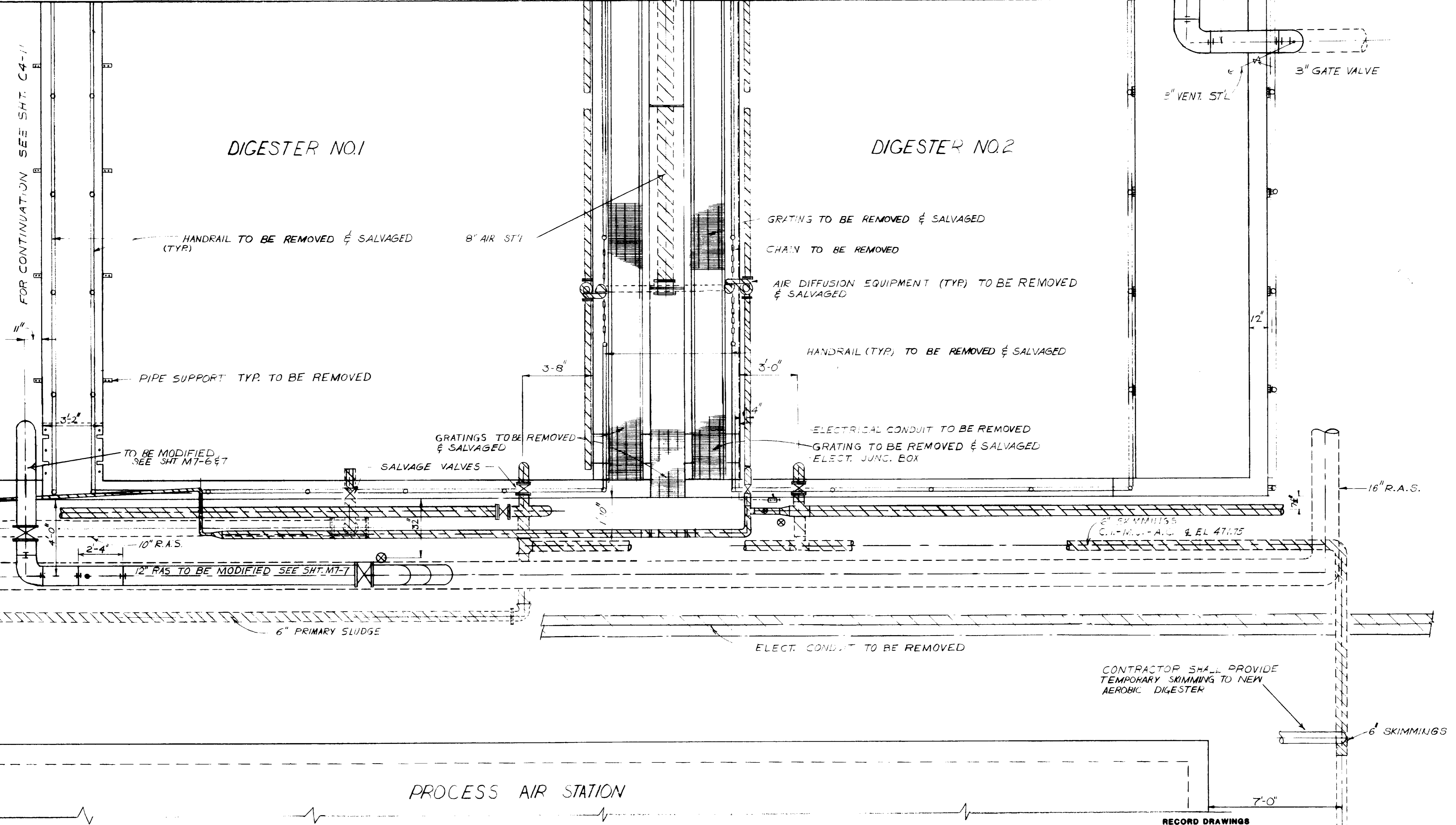
FOR CONTINUATION SEE SHT. C4-16

14 RAS
TO REMAIN

FOR CONTINUATION SEE SHT. C4-11

DIGESTER NO.1

DIGESTER NO.2



PROCESS AIR STATION

PLAN

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper

Yuh Katsura
KATSURA CONSULTING ENGINEERS
RCE 14038
March 1986

03044

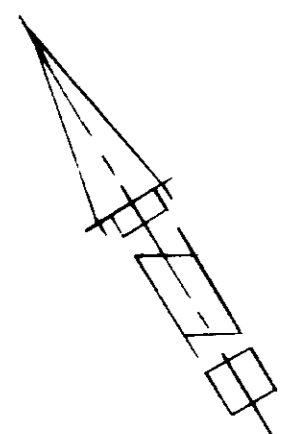
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
DEMOLITION IV
EXISTING AEROBIC DIGESTERS & REAERATION TANKS

SHEET
C4-15

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE :	DWV	SUBMITTAL	14038	8/15/79
3/8" = 1'-0"	DESIGNED	PROJECT MANAGER	R.C.E. NO.	DATE
	DWV	PROJECT MANAGER	14894	8/15/79
	DRAWN	PROJECT ADMINISTRATOR	R.C.E. NO.	DATE
	CHECKED			

JK CONSULTING ENGINEERS
A JOINT VENTURE
5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117



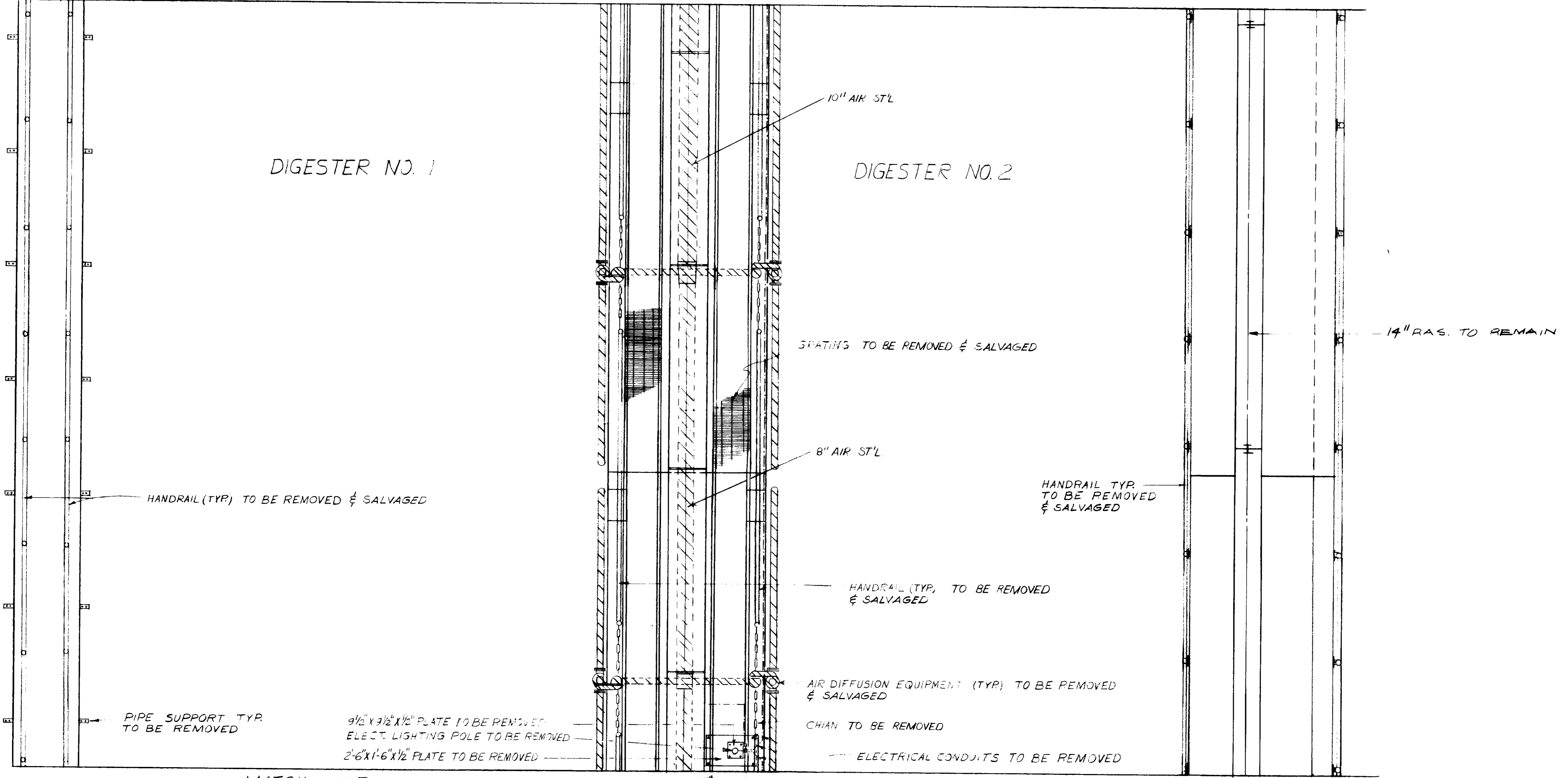
MATCH LINE

FOR CONTINUATION SEE SHT. C4-17

DIGESTER NO. 1

DIGESTER NO. 2

FOR CONTINUATION SEE SHT. C4-12



MATCH LINE

FOR CONTINUATION SEE SHT. C4-15

PLAN

03045

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

Yuh Katsura
RCE 14038

KATSURA CONSULTING ENGINEERS March 1985

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE :
3/8" = 1'-0"

DWV
DESIGNED
DRAWN
CHECKED

SUBMITTED
Yuh Katsura
PROJECT MANAGER
14038 8/15/79
R.C.E. NO. DATE

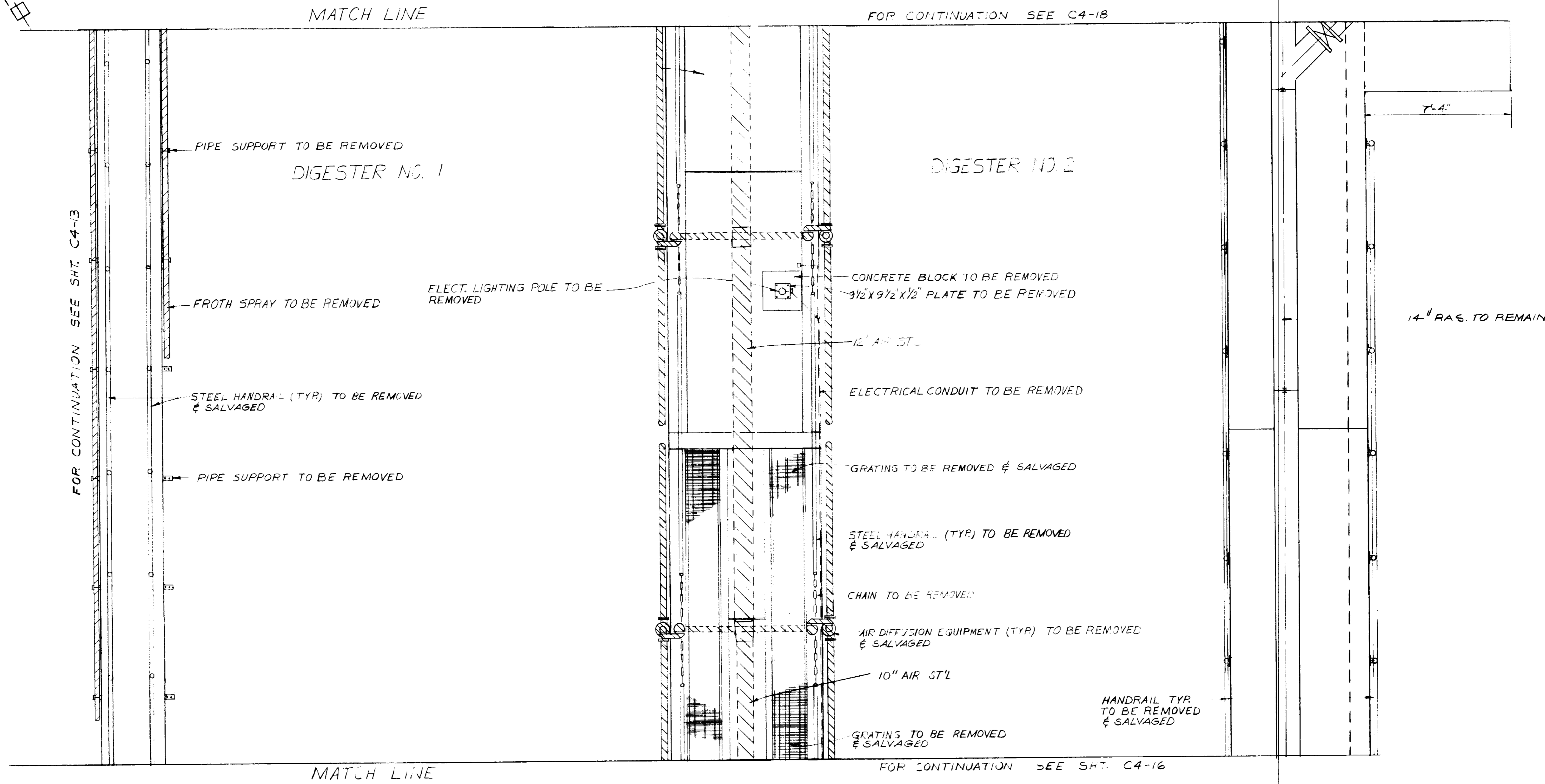
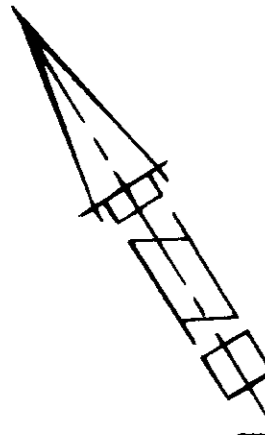
PROJECT ADMINISTRATOR
Yuh Katsura
14894 8/15/79
R.C.E. NO. DATE

JK CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
DEMOLITION IV
EXISTING AEROBIC DIGESTERS & REAERATION TANKS

SHEET
C4-16

Sht. 15 of 18



MATCH LINE

FOR CONTINUATION SEE C4-18

FOR CONTINUATION SEE SHT. C4-13

DIGESTER NO. 1

DIGESTER NO. 2

7'-4"

14" RAS. TO REMAIN

MATCH LINE

FOR CONTINUATION SEE SHT. C4-16

PLAN

03046

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
[Signature]
 KATSURA CONSULTING ENGINEERS RCE 14038
 March 1985

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE :
 $\frac{3}{8}'' = 1'-0''$

DWV
 DESIGNED
 DWV
 DRAWN
 S.K.
 CHECKED

SUBMITTED BY
[Signature]
 PROJECT MANAGER
 14038 8/15/79
 R.C.E. NO. DATE
 PROJECT ADMINISTRATOR
[Signature]
 14884 8/15/79
 R.C.E. NO. DATE

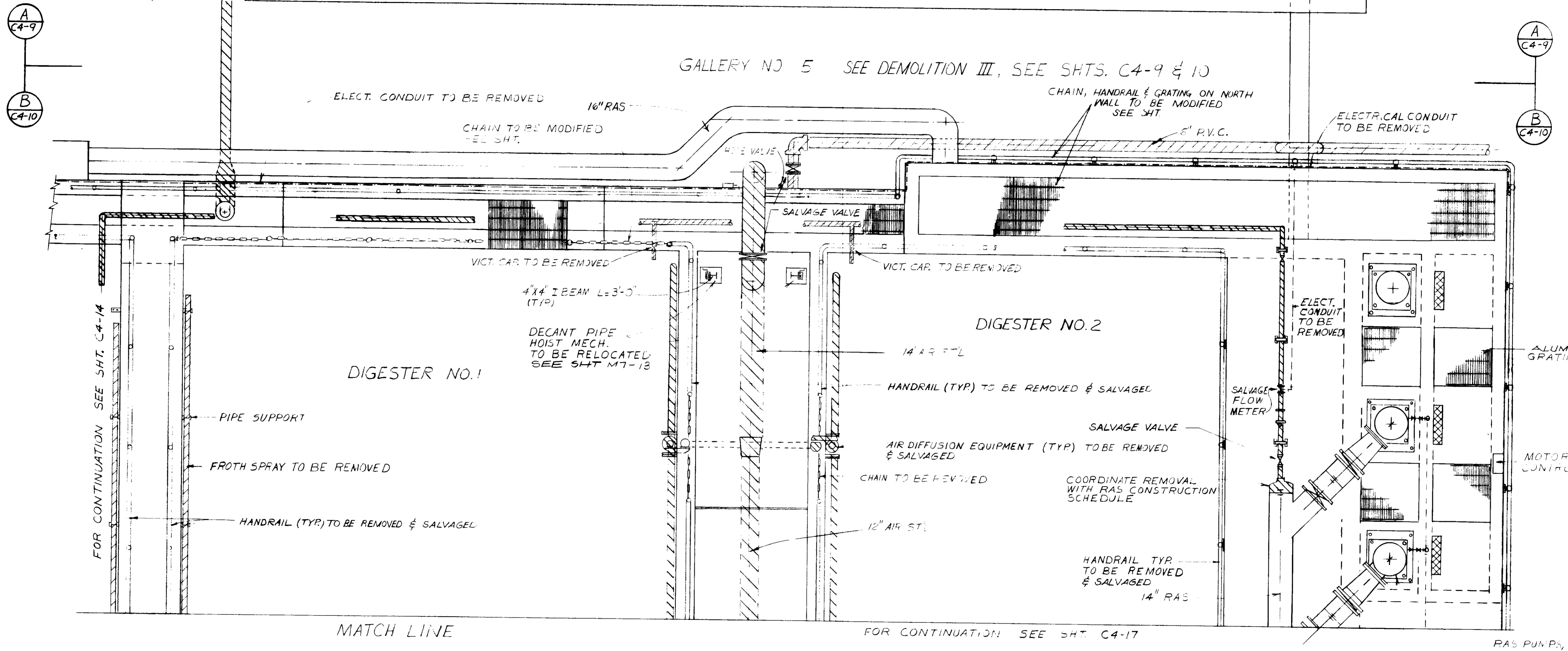
JK CONSULTING ENGINEERS
 A JOINT VENTURE
 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION IV
 EXISTING AEROBIC DIGESTERS & REAERATION TANKS

SHEET
 C4-17

CHLORINE CONTACT TANK N^o1, SEE DEMOLITION II

GALLERY NO 5 SEE DEMOLITION III, SEE SHTS. C4-9 & 10



NOTE

1. RAS PUMP STATION TO REMAIN IN OPERATION DURING DEMOLITION & RECONSTRUCTION.

PLAN

03047

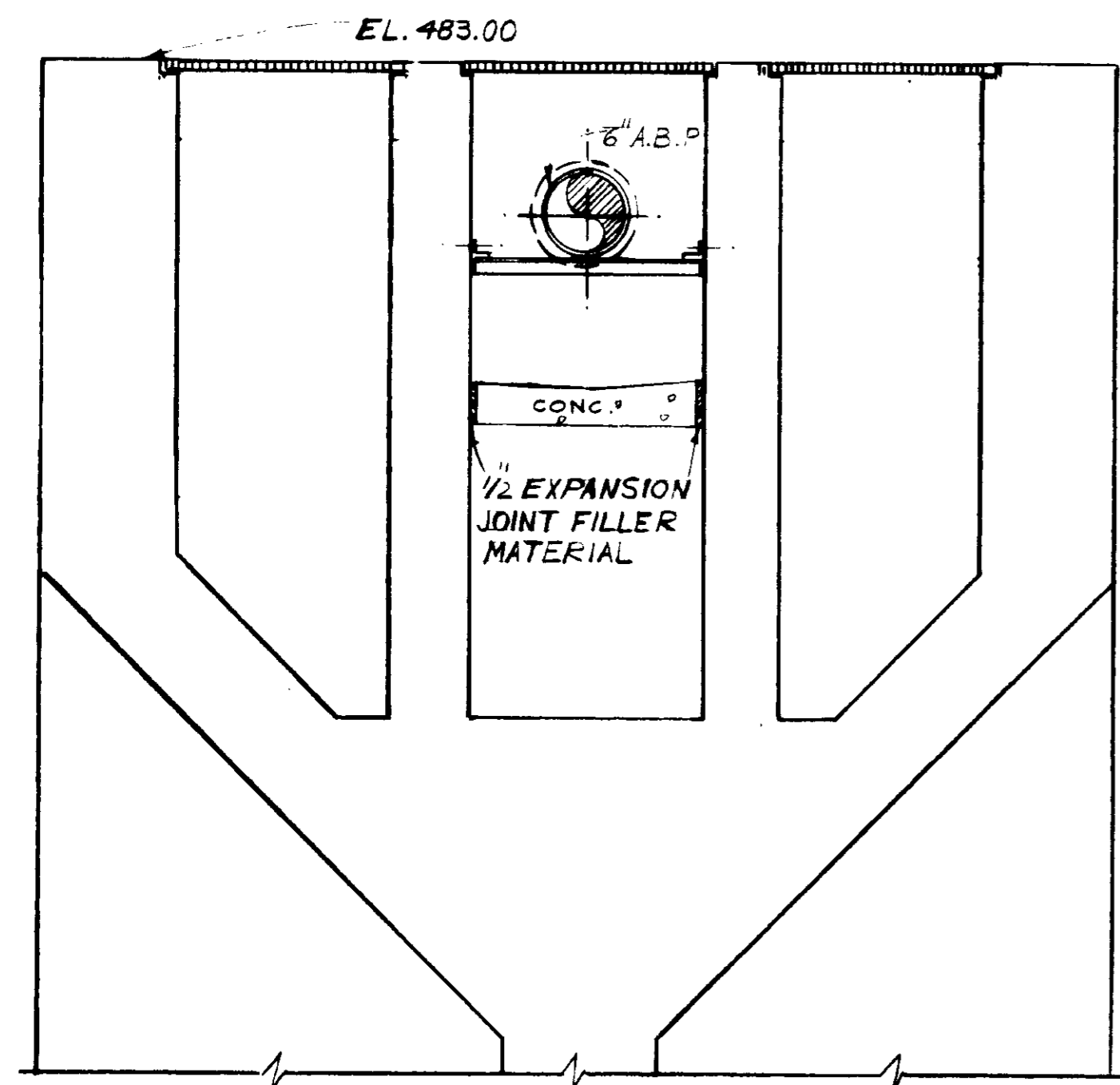
RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

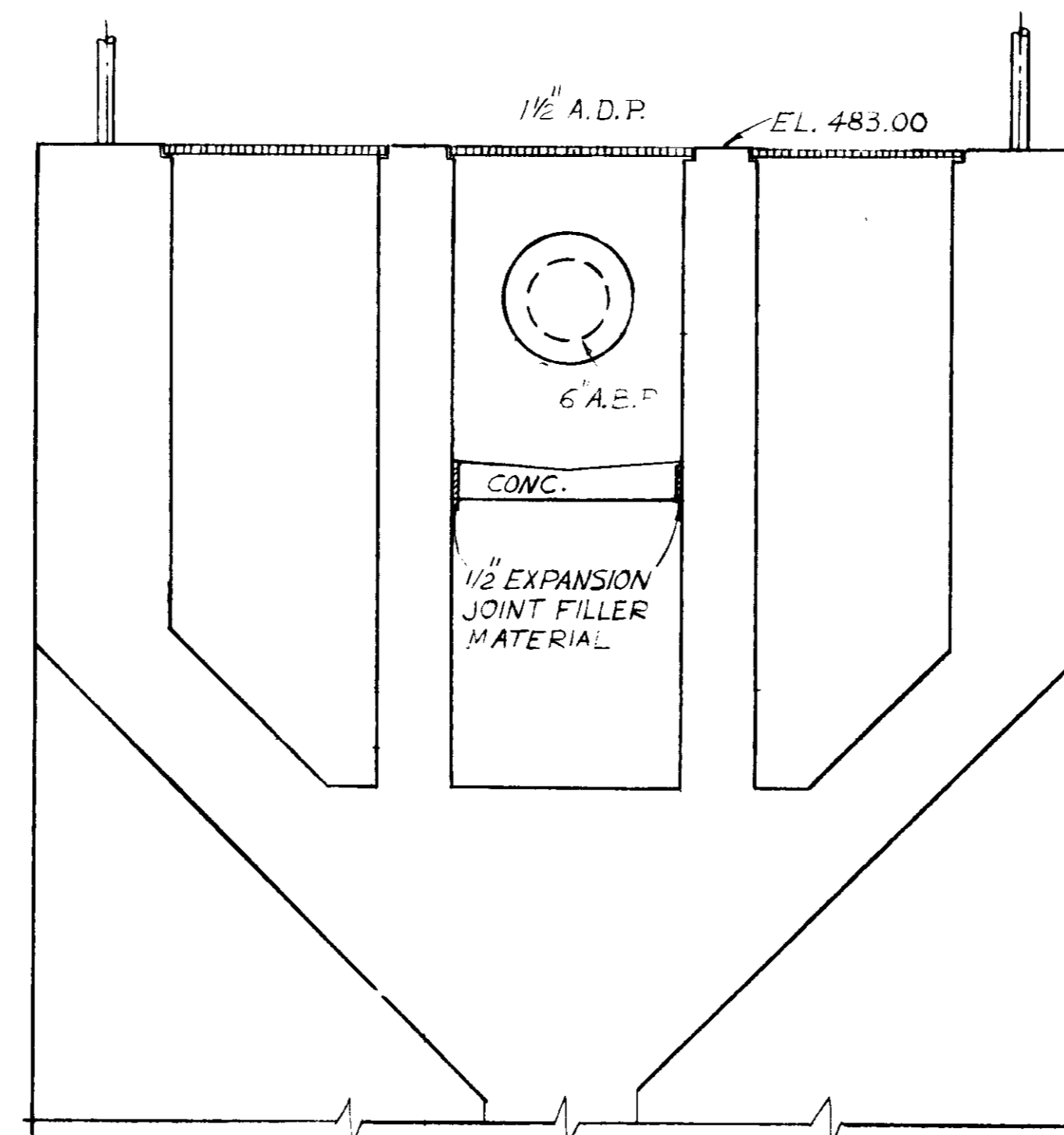
Yph Katsura RCE 14038

KATSURA CONSULTING ENGINEERS March 1985

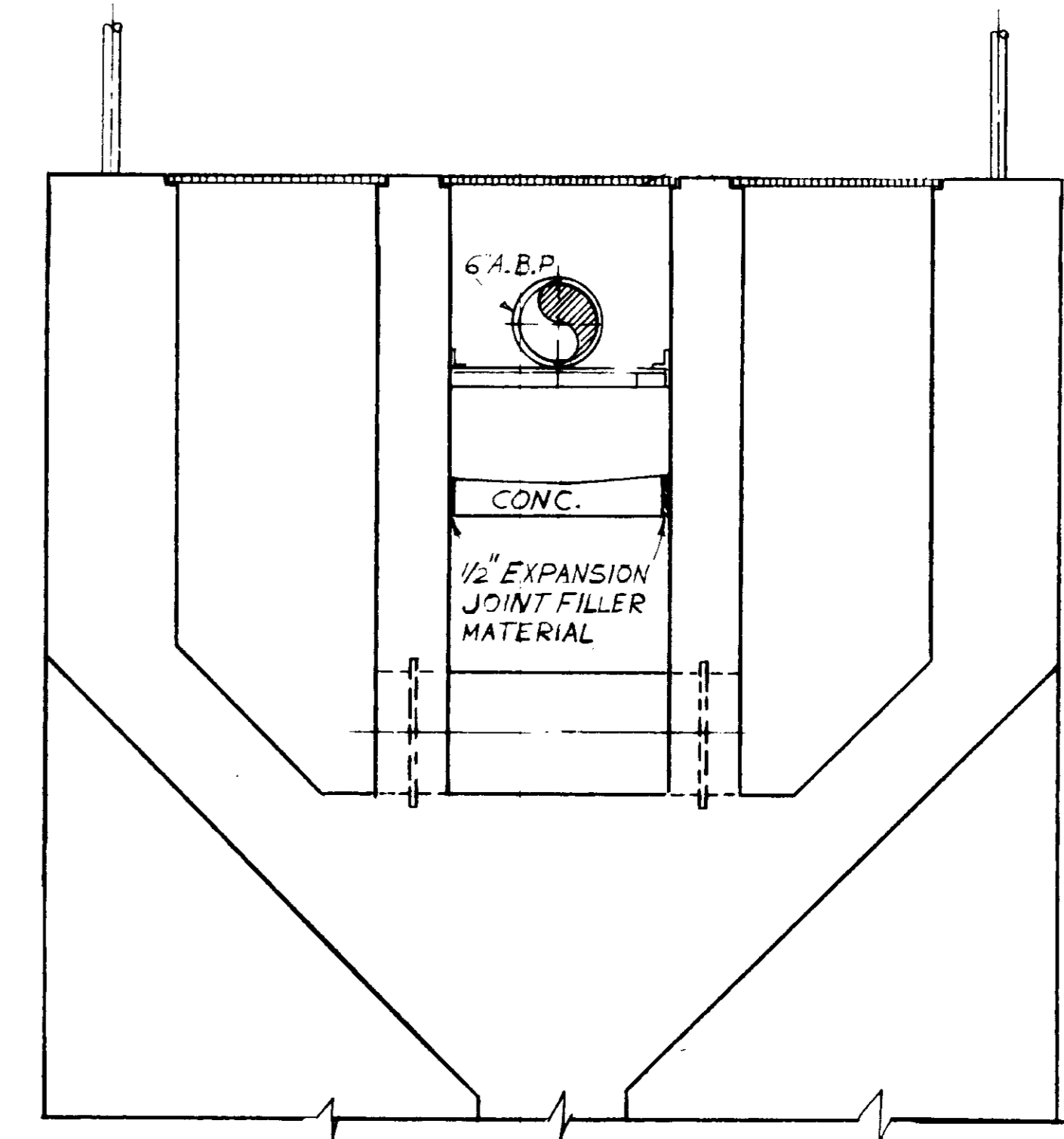
SCALE : $\frac{3}{8}'' = 1'-0''$		DWV. DESIGNED DWV. DRAWN S.K. CHECKED		SUBMITTED BY <i>[Signature]</i> PROJECT MANAGER 14038 R.C.E. NO. 8/15/79 DATE		CONSULTING ENGINEERS A JOINT VENTURE 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. DEMOLITION IV EXISTING AEROBIC DIGESTERS & REAERATION TANKS		SHEET C4-18	
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION				



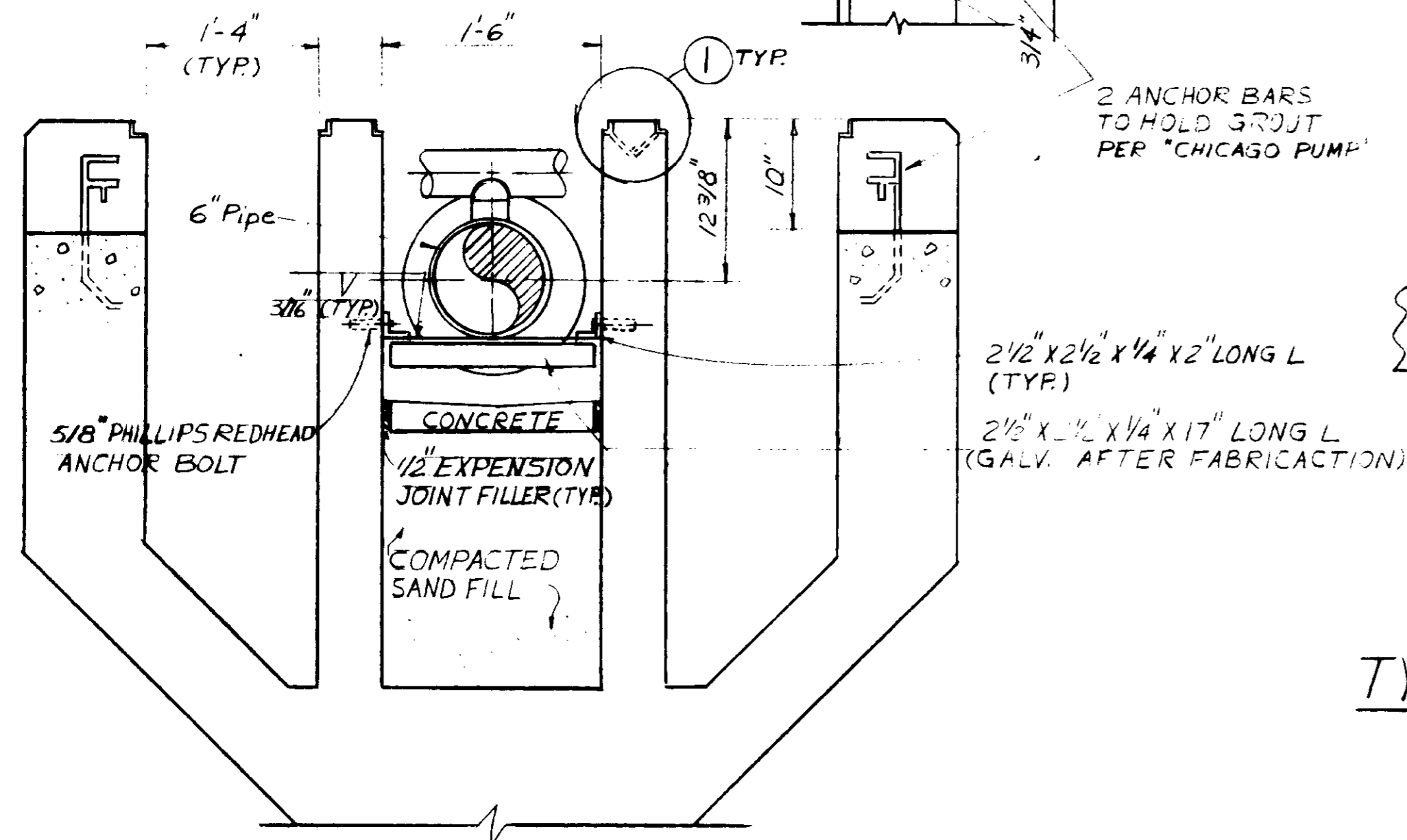
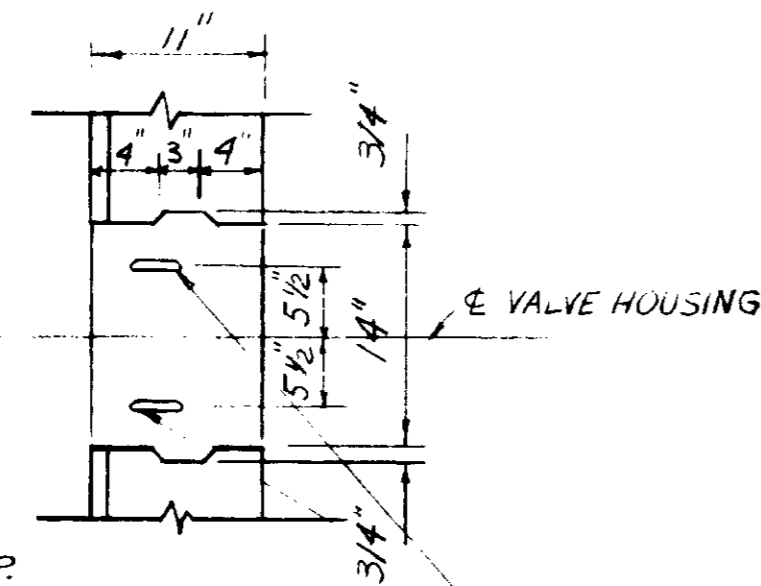
TYP. SECTION
SCALE: 1"=1'-0"



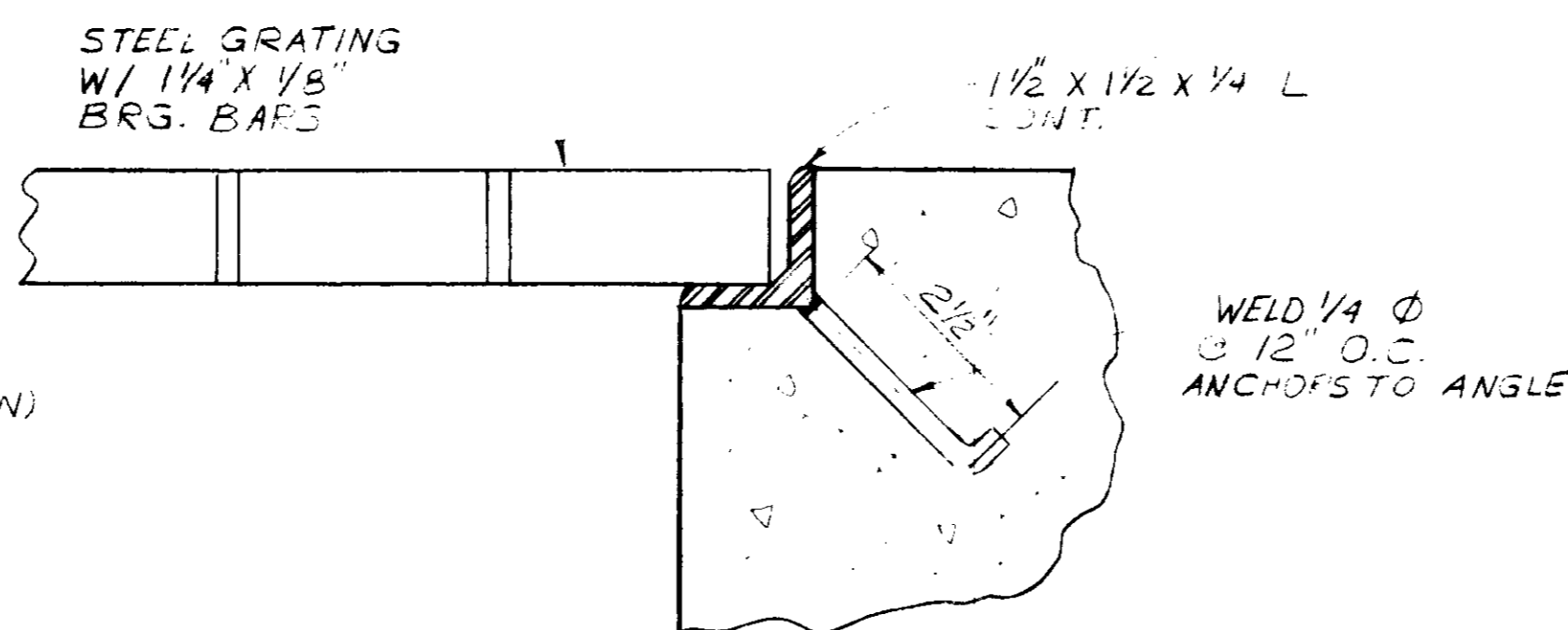
TYP. SECTION
SCALE: 1"=1'-0"



TYP. SECTION
SCALE: 1"=1'-0"



TYP. PIPE SUPPORT-DETAIL
SCALE: 1"=1'-0"

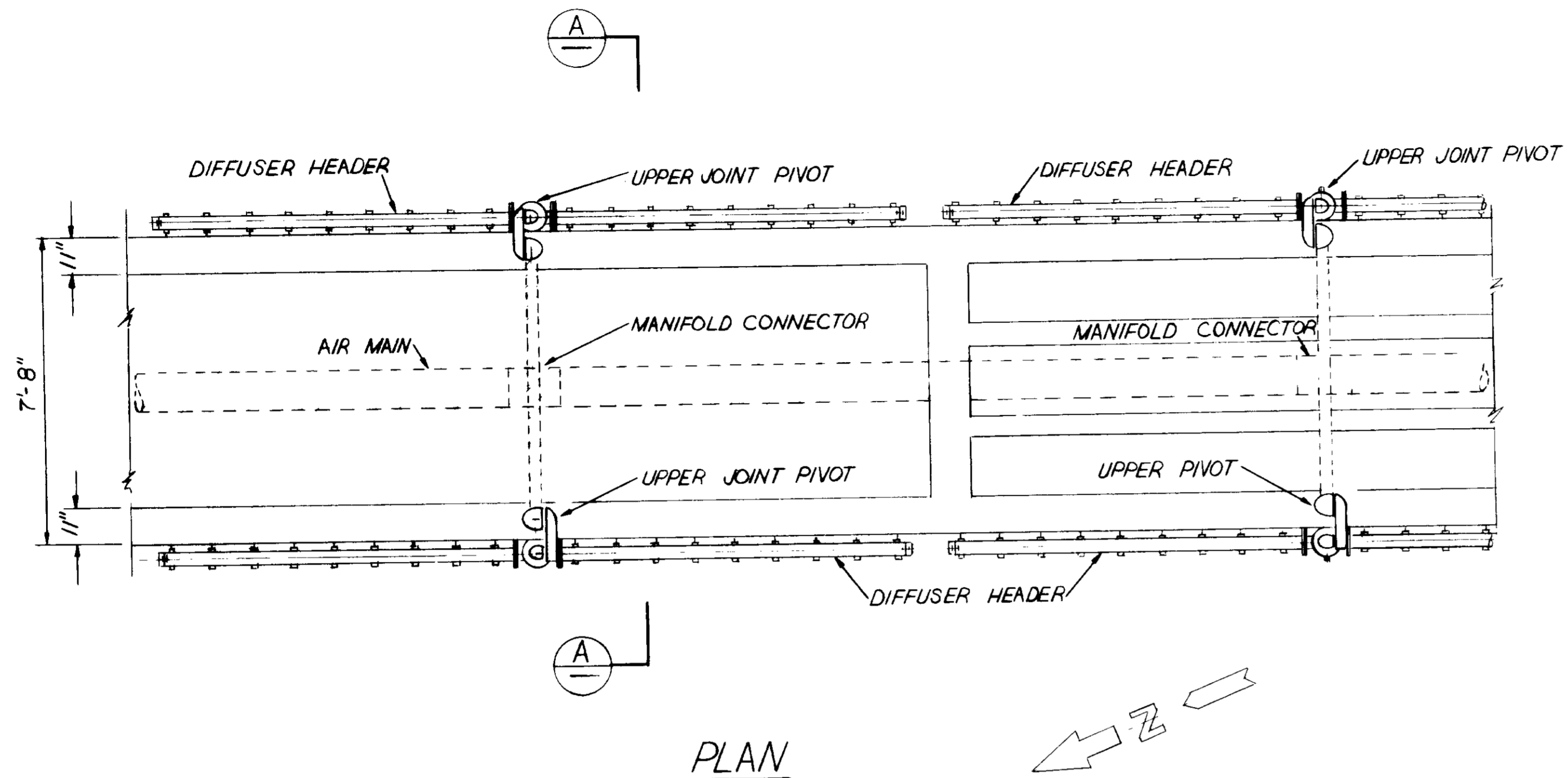


TYPICAL STL. GRATING-DETAIL ①
SCALE 1/2 FULL SIZE

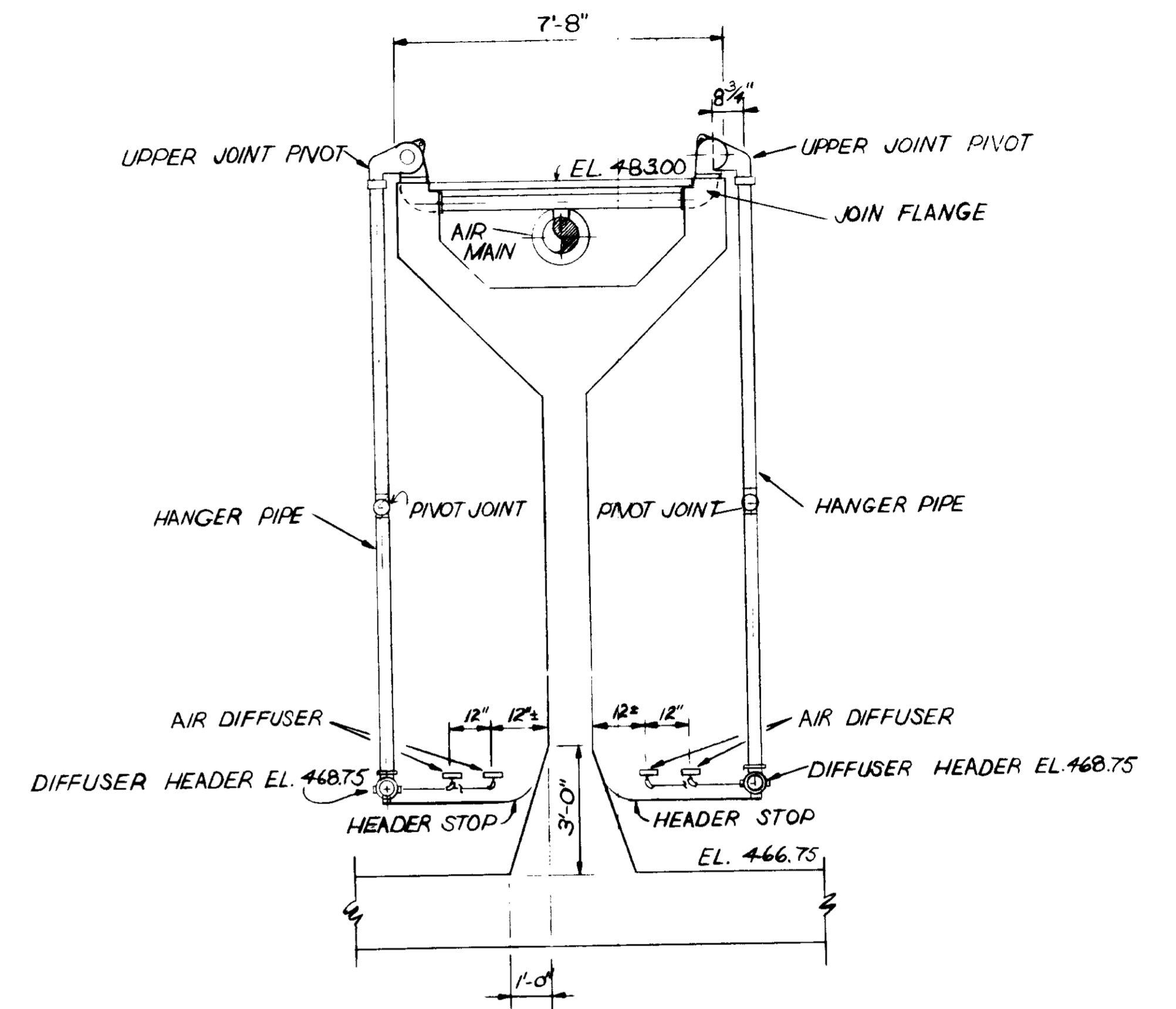
03048

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Yosh Katsura
KATSURA CONSULTING ENGINEERS RCE 14038
March 1985

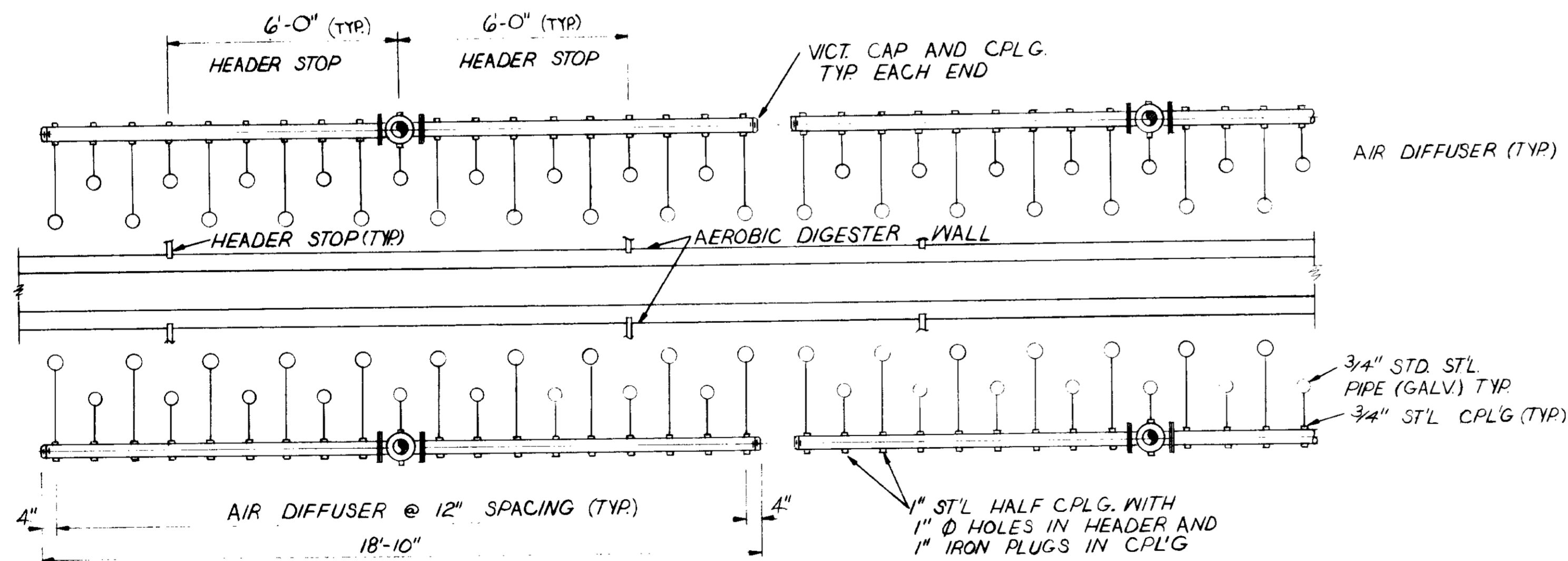
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	SCALE :	DWV. DESIGNED DWV DRAWN S.K. CHECKED	SUBMITTED <i>Yosh Katsura</i> PROJECT MANAGER 14038 R.C.E. NO. 8/15/79 DATE	CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. DEMOLITION IX EXISTING AEROBIC DIGESTERS & REAERATION TANKS - SECTIONS	SHEET C4-19
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PLAN



SECTION A



PLAN SECTION

NOTE:
 1. AIR DIFFUSION EQUIPMENT TO BE REMOVED & SALVAGED FROM UPPER PIVOT TO ENDS OF DIFFUSER HEADER, INCLUDING MANIFOLD CONNECTORS

03049

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
[Signature] RCE 14038
 KATSUNA CONSULTING ENGINEERS March 1985

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

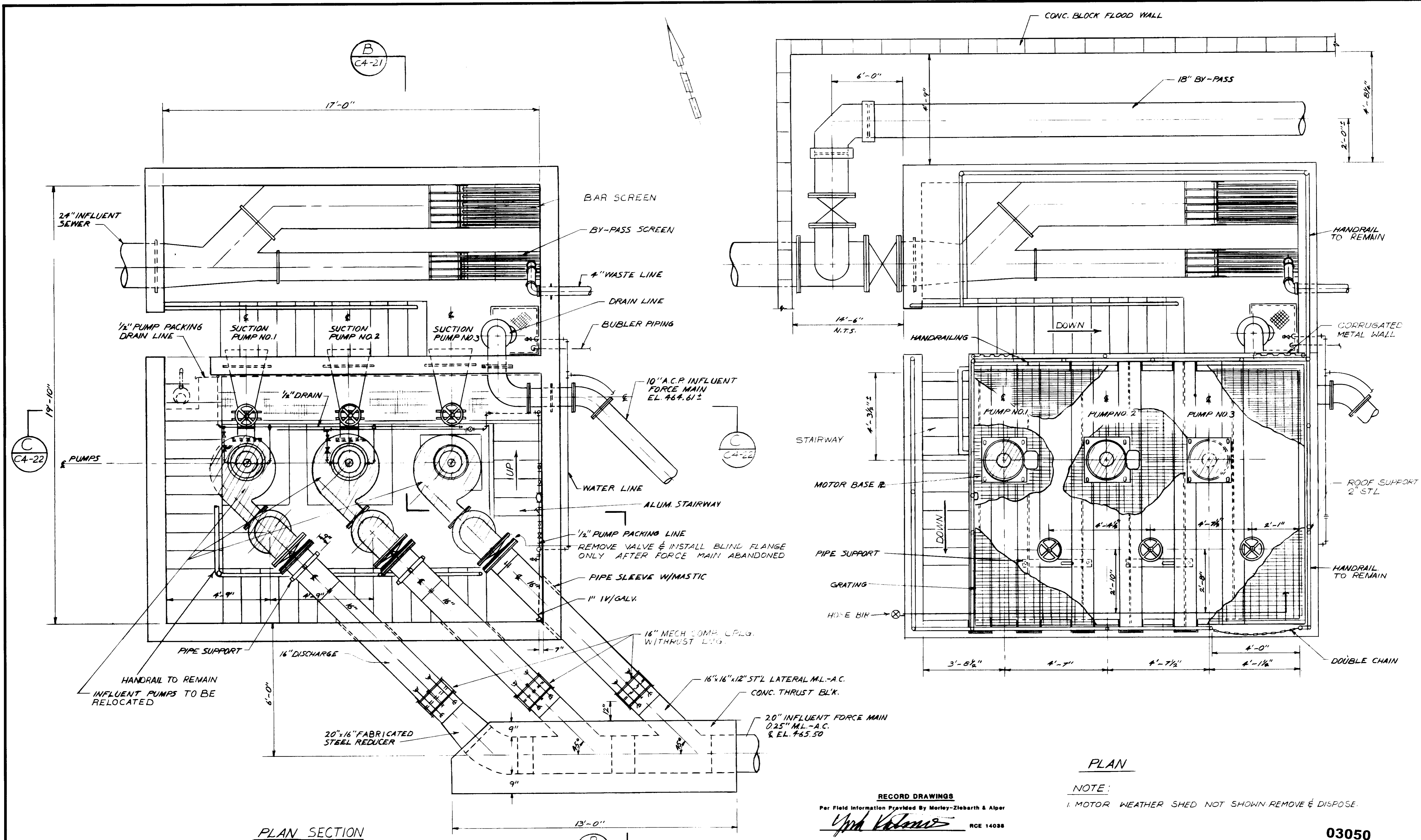
SCALE :
 $\frac{3}{8} = 1' - 0''$
 DWV. DESIGNED
 DWV. DRAWN
 S.K. CHECKED

SUBMITTED *[Signature]* 14038 8/15/79
 PROJECT MANAGER R.C.E. NO. DATE
 PROJECT ADMINISTRATOR 14894 8/15/79
 R.C.E. NO. DATE

J&K CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 888-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION II
 AIR DIFFUSION SYSTEM

SHEET
 C4-20
 544.1 of 10



PLAN SECTION

PLAN

RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper
Yrph Katsura
 KATSURA CONSULTING ENGINEERS RCE 14038
 March 1985

NOTE:
 1. MOTOR WEATHER SHED NOT SHOWN REMOVE & DISPOSE.

03050

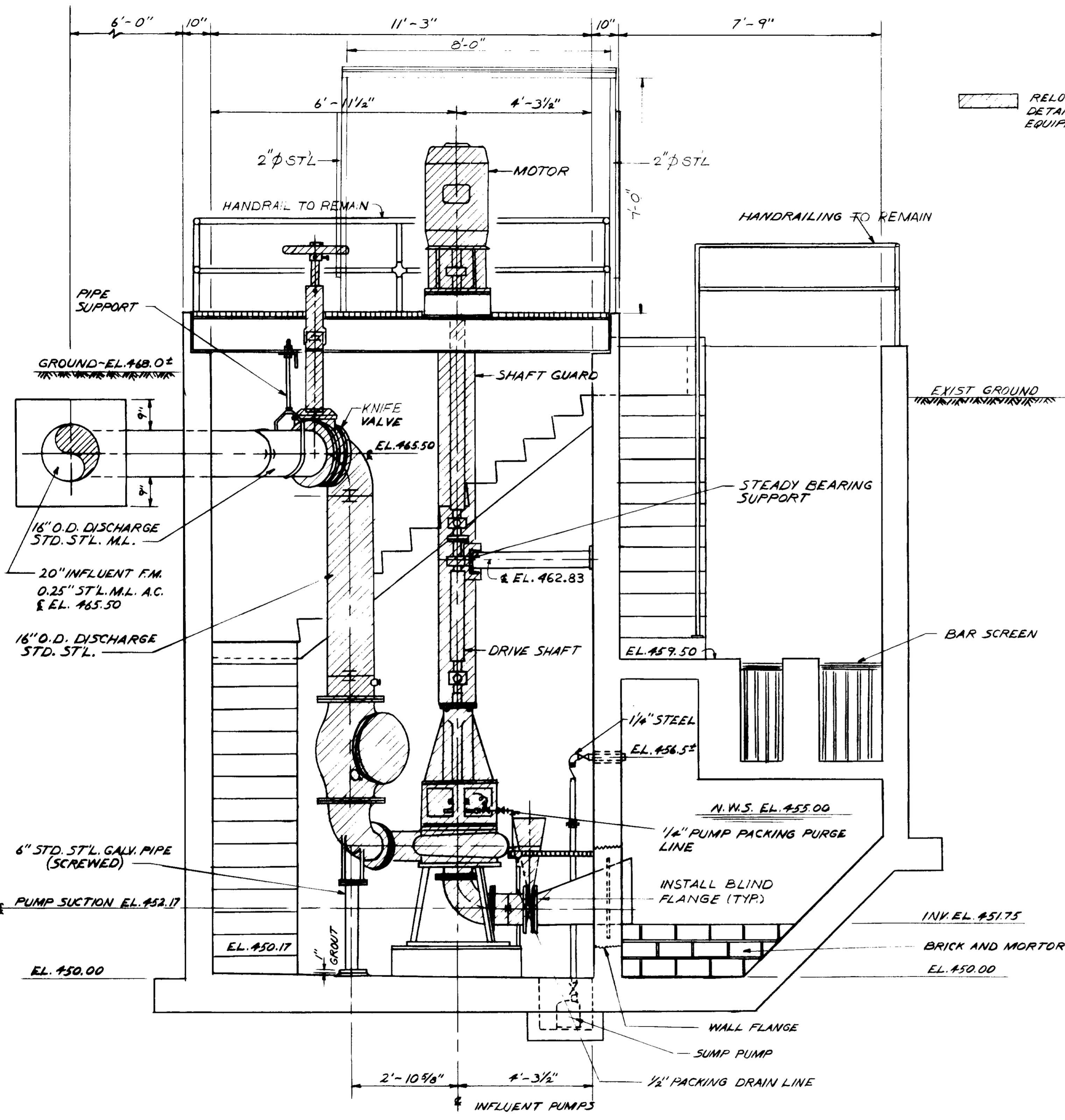
REV	DATE	BY	DESCRIPTION

SCALE : 1/2" = 1'-0"	D.W.V. DESIGNED D.W.V. DRAWN S.K. CHECKED	SUBJECT <i>Katsura</i> PROJECT MANAGER <i>Yrph Katsura</i> PROJECT ADMINISTRATOR	14038 R.C.E. NO. 8/15/78 DATE
		14894 R.C.E. NO. 8/15/79 DATE	

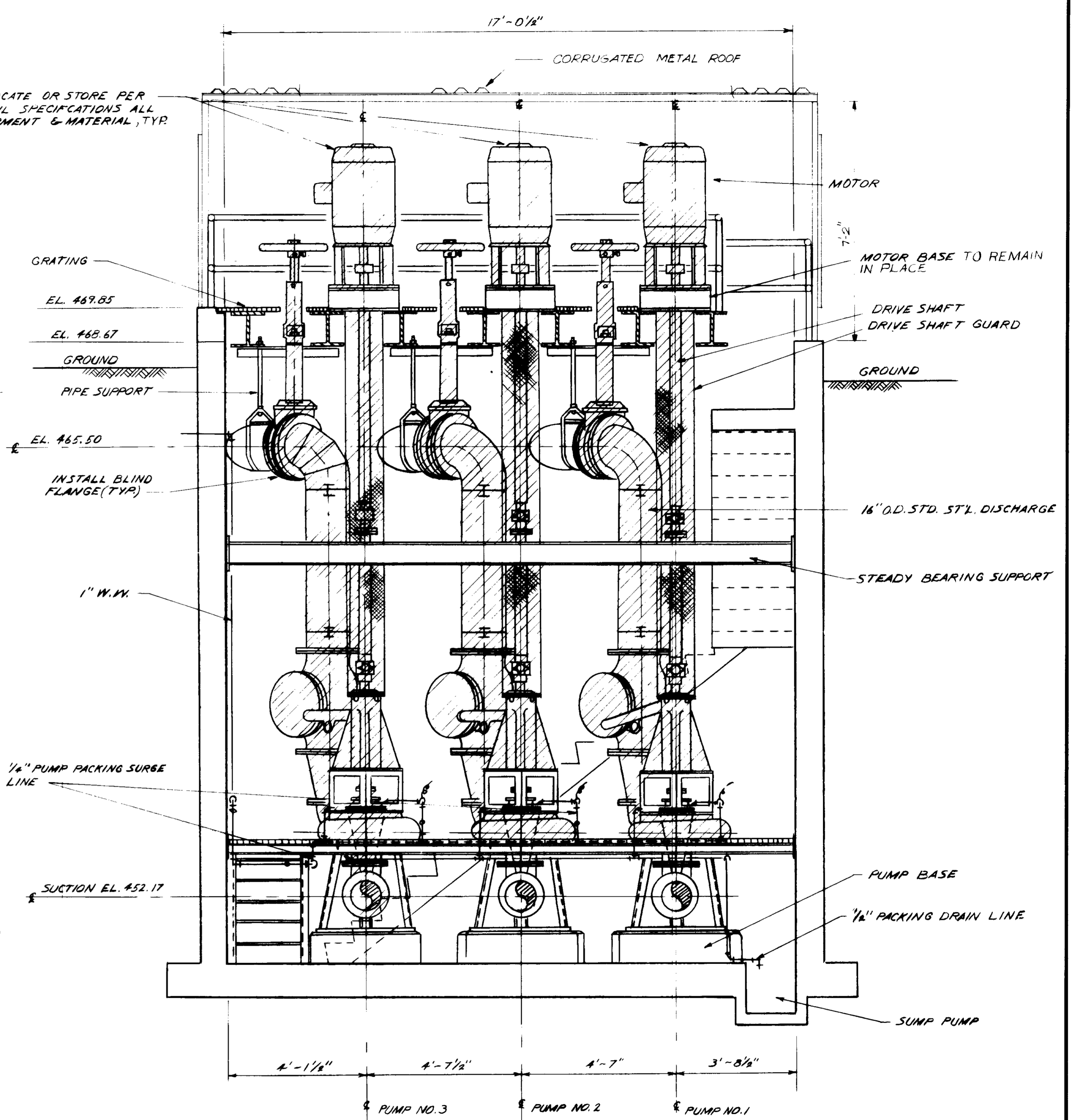
JK CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 DEMOLITION
 EXISTING INFLUENT PUMP STATION

SHEET
C4-21



SECTION B
C4-21



SECTION C
C4-21

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura
RCE 14098
KATSURA CONSULTING ENGINEERS March 1985

03051

REV	DATE	BY	DESCRIPTION

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

DWV DESIGNED
DWV DRAWN
S.K. CHECKED

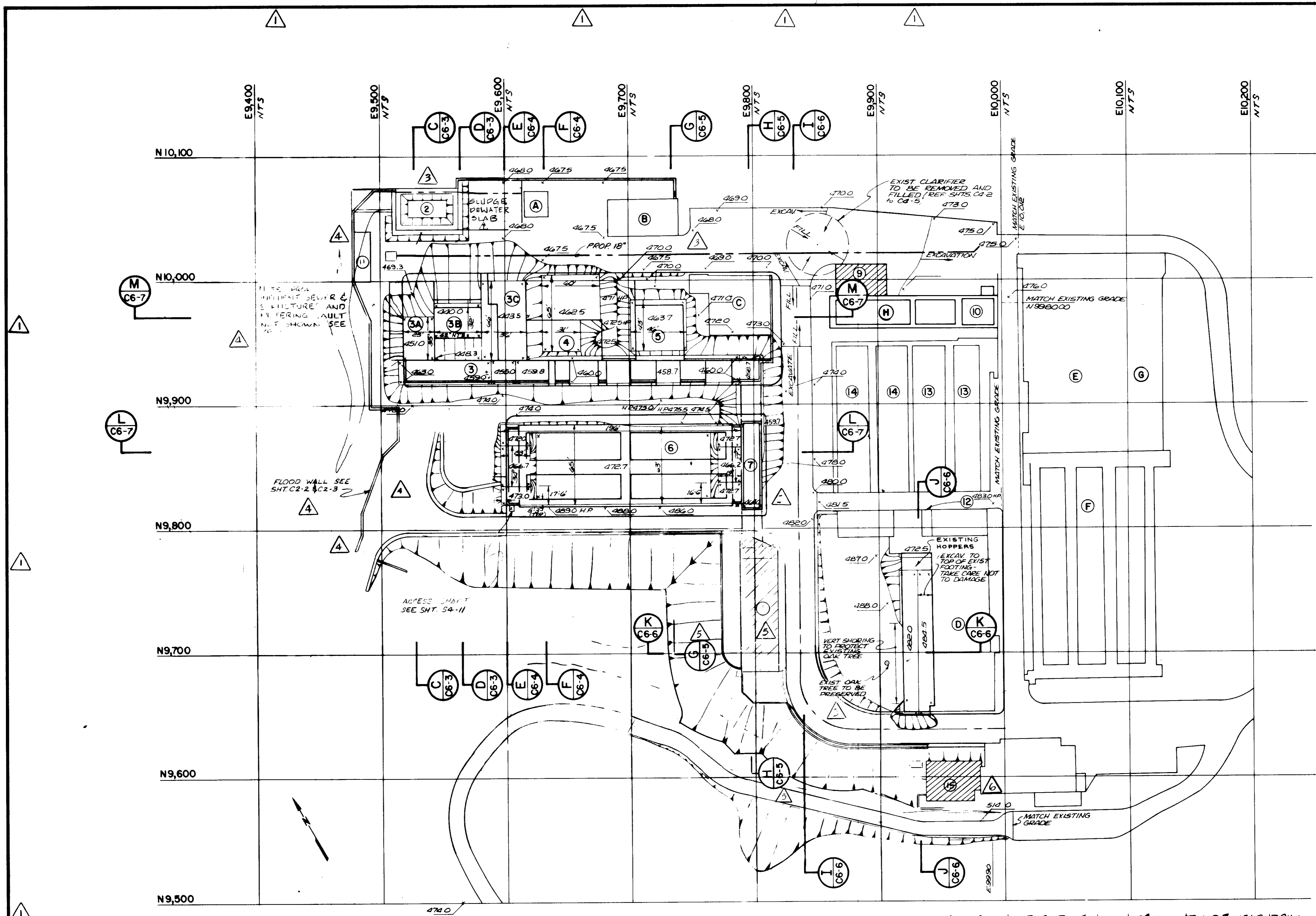
SUBMITTED: *Yuh Katsura* 14098 8/15/79
PROJECT MANAGER R.C.E. NO. DATE

PROJECT ADMINISTRATOR: *Don'te...* 14894 8/15/79
R.C.E. NO. DATE

JK CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 633-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
DEMOLITION X
EXISTING INFLUENT P.S. - SECTIONS

SHEET
C4-22



KEY TO STRUCTURES

NEW STRUCTURES

- ① SHOP AND MAINTENANCE BUILDING (BY OTHERS)
- ② SLUDGE DEWATERING FACILITY
- ③ HEADWORKS
 - A) SCREENING & DEGRITTING BUILDING
 - B) GRIT PUMP CHAMBER ROOF
 - C) INFLUENT PUMP BUILDING
- ④ ELECTRICAL BUILDING
- ⑤ PROCESS AIR COMPRESSOR BUILDING
- ⑥ AEROBIC DIGESTERS NO. I-A, I-B, II-A, & II-B
- ⑦ PIPE GALLERY STRUCTURE
- ⑧ PRIMARY SEDIMENTATION TANK NO. 3
- ⑨ SLUDGE PUMPING STATION (BY OTHERS)
- ⑩ SLUDGE SCREENING FACILITY
- ⑪ ELECTRIC SUBSTATION
- ⑫ ELECTRIC RELOCATION BLDG

EXISTING STRUCTURES

- A) INFLUENT PUMP STATION
- B) CONTROL BUILDING
- C) SOLIDS CONCENTRATION FACILITY
- D) PRIMARY SEDIMENTATION TANKS NO. 1 & 2
- E) FINAL SEDIMENTATION TANKS NO. 1, 2, 3, & 4
- F) FINAL AERATION TANKS NO. 1, 2 & 3
- G) CL₂ CONTACT TANK NO. 2
- H) CL₂ CONTACT TANK NO. 1

STRUCTURES TO BE MODIFIED

- ⑬ REAERATION TANKS NO. 1 & 2
- ⑭ AEROBIC DIGESTERS NO. III & IV
- ⑮ ADMINISTRATION BLDG. (By Others)
- ⑯ CL₂ CONTACT TANK NO. 1

- FOR GENERAL NOTES SEE SHT. C6-2 -

NOTE:
 1. ELEVATIONS SHOWN FOR GENERAL INFORMATION ONLY. FOR SPECIFIC ELEVATIONS REFER TO FOLLOWING SECTIONS AND STRUCTURAL DRAWINGS.
 2. INFLUENT SEWER & DRAIN TRENCH EXCAVATION NOT SHOWN FOR CLARITY

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y.K. Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

GENERAL SITE PLAN
 1" = 40' scale

① 3' PAYLINE FOR FOOTING ON GRID LINE I OF HEADWORKS (SEE SHT. S2-1) NOT SHOWN. PAYLINE SHALL BE BASED ON 2FT CLEAR OF FOOTING BASE, SLOPE OF 1:1 WITHIN WEATHERED BED, ROCK & SLOP 3:1 ABOVE WEATHERED BEDROCK.

03052

REV	DATE	BY	DESCRIPTION
1	11-3-79	Y.K.	REVISED ELEVATIONS, PAD & NOTES
2	12-21-79	Y.K.	CLARIFICATION
3	12-28-84	C.L.	REV. PER MZA & JCE

DESIGNED	J.A.H.R.C.H.
DRAWN	RE/Y KATSURA
CHECKED	

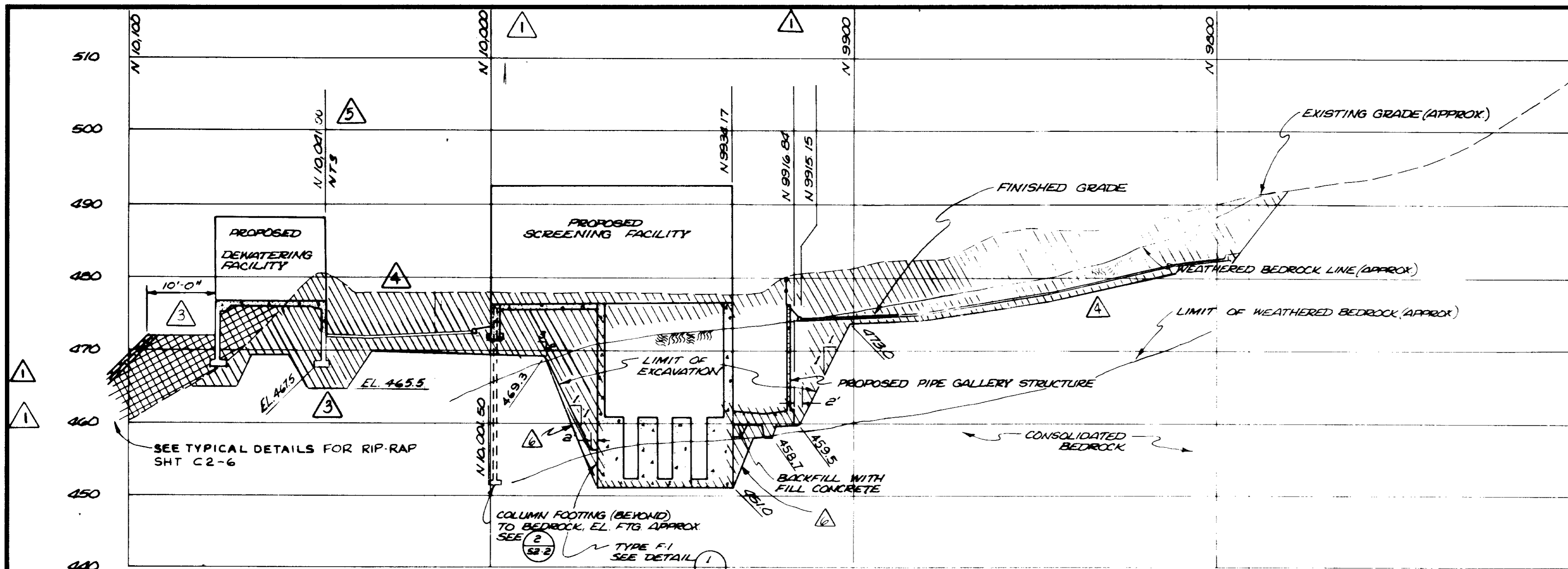
PROJECT MANAGER	14038 11-3-79
R.C.E. NO.	DATE
PROJECT ADMINISTRATOR	14884 11-3-79
R.C.E. NO.	DATE

JK CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 832-9117

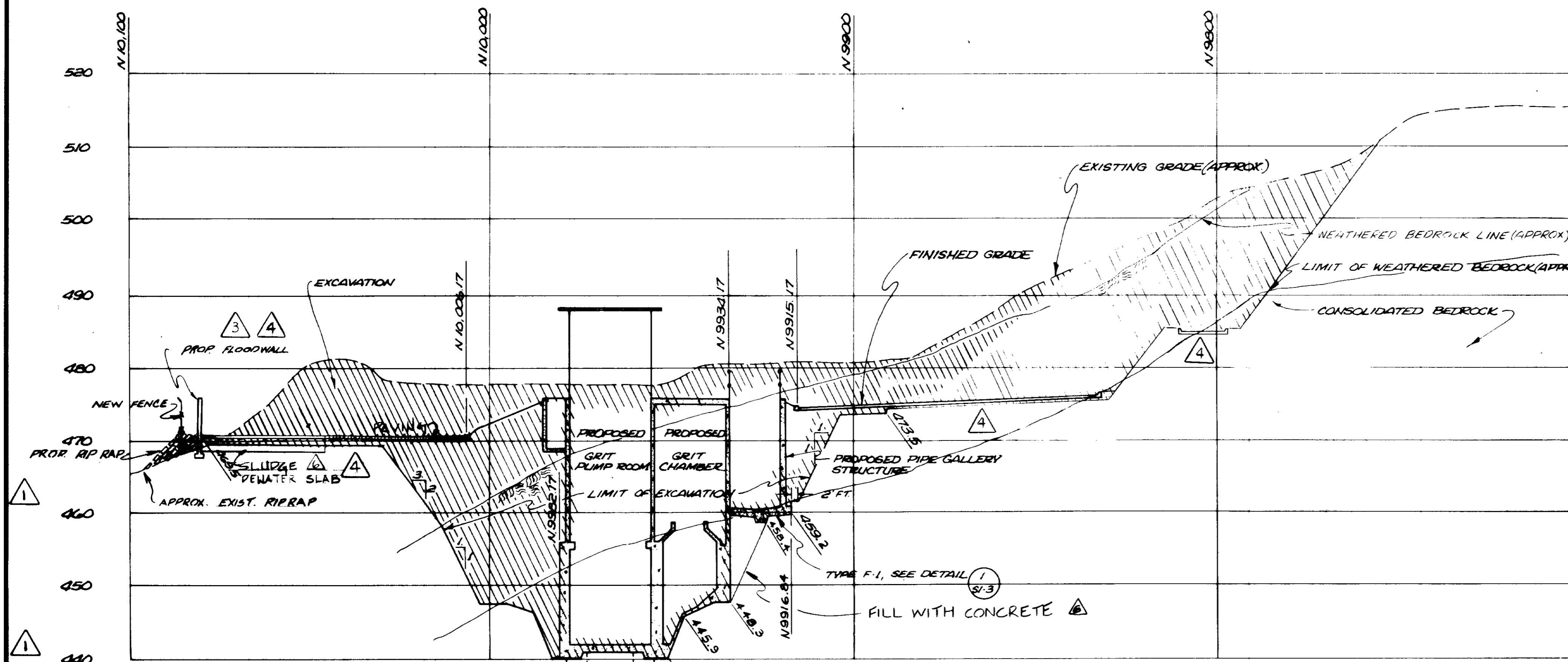
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
STRUCTURAL FOUNDATION PLAN

SHEET
 C6-1

SHT. 4 OF 10



SECTION C
 VERT. 1" = 10'
 HORIZ. 1" = 20'



SECTION D
 VERT. 1" = 10'
 HORIZ. 1" = 20'

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yosh Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1986

03053

REV	DATE	BY	DESCRIPTION
1	12-18-78	Y.K.	COASTAL COMMISSION REV. PART 1
2	12-14-78	Y.K.	CLARIFICATION
3	12-14-78	Y.K.	OAK TREE PRESERV. MOD.
4	11-3-79	Y.K.	REVISED ELEVATION

SCALE :
 AS NOTED

DESIGNED : JAH/RCH
 DRAWN : RE/Y KATSURA
 CHECKED : [Signature]

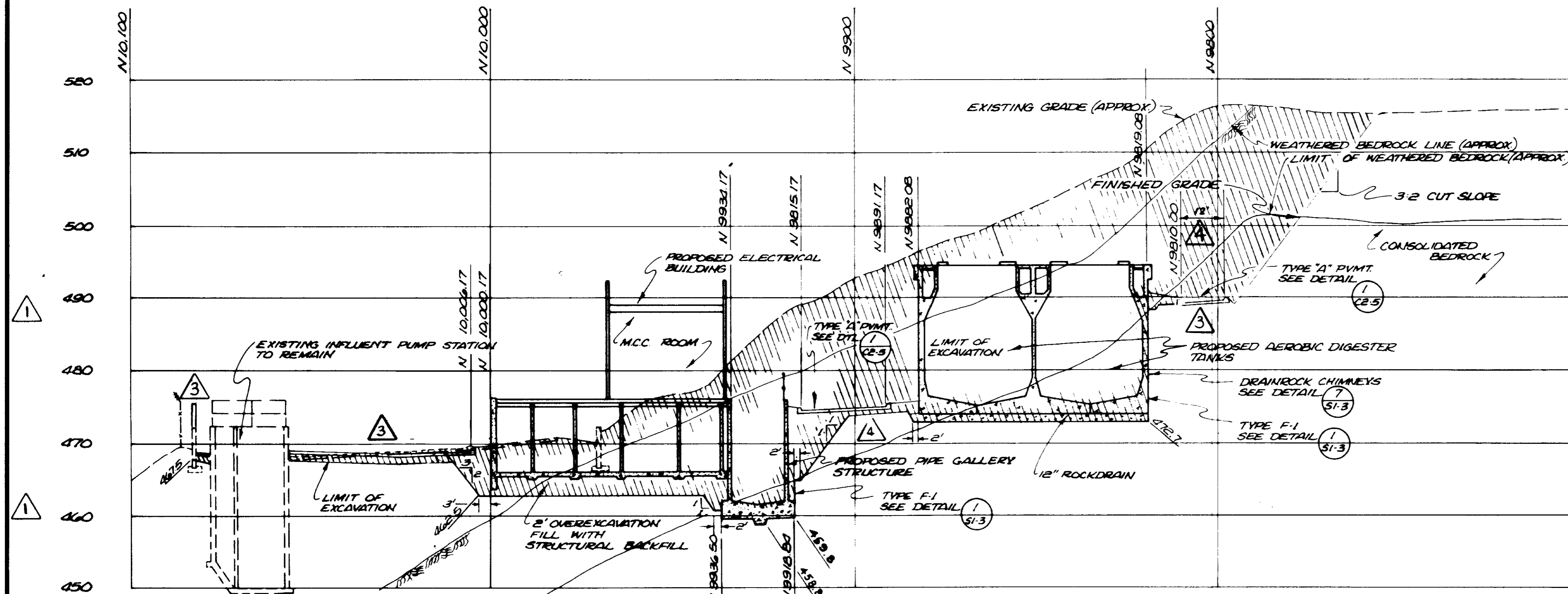
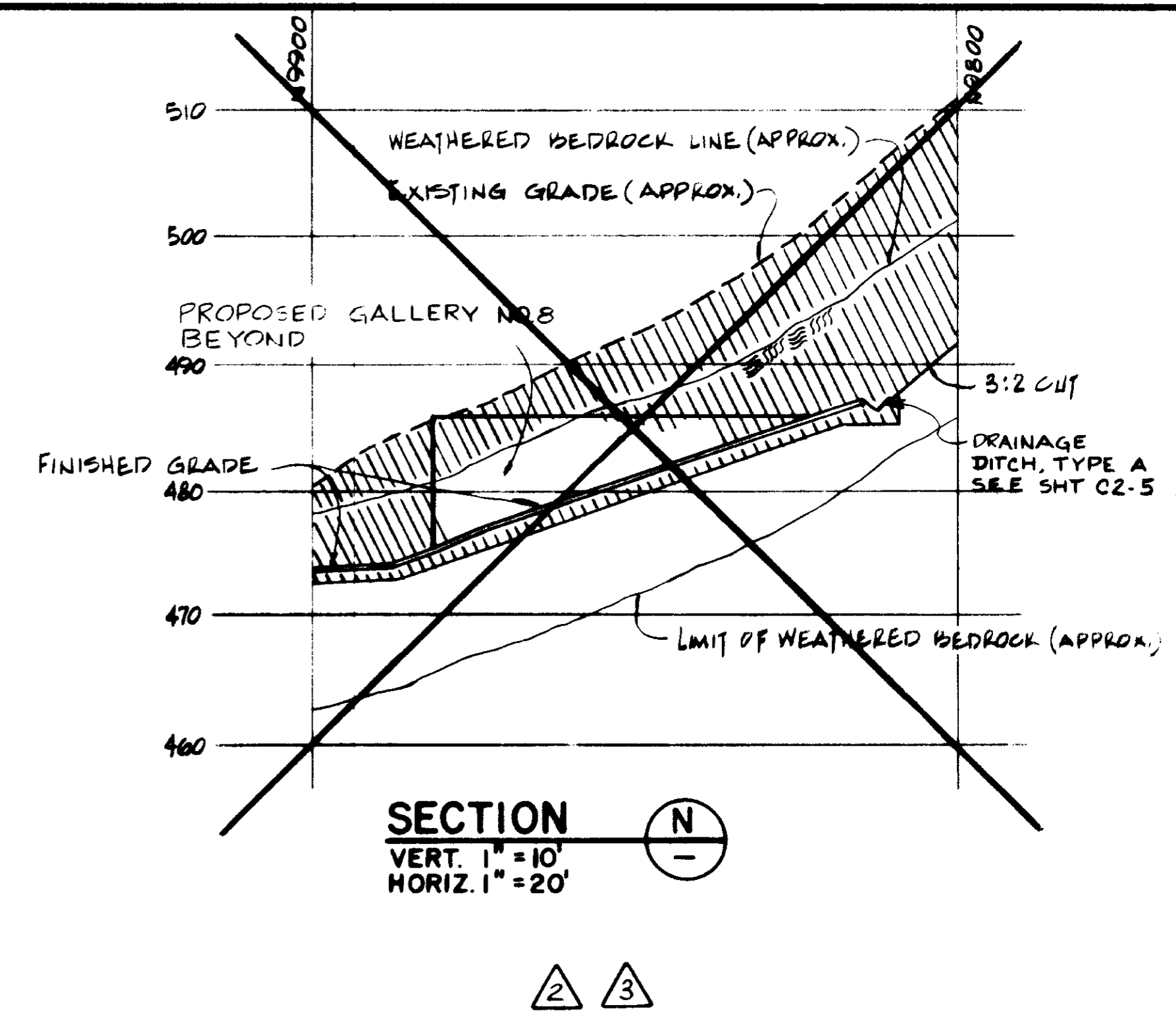
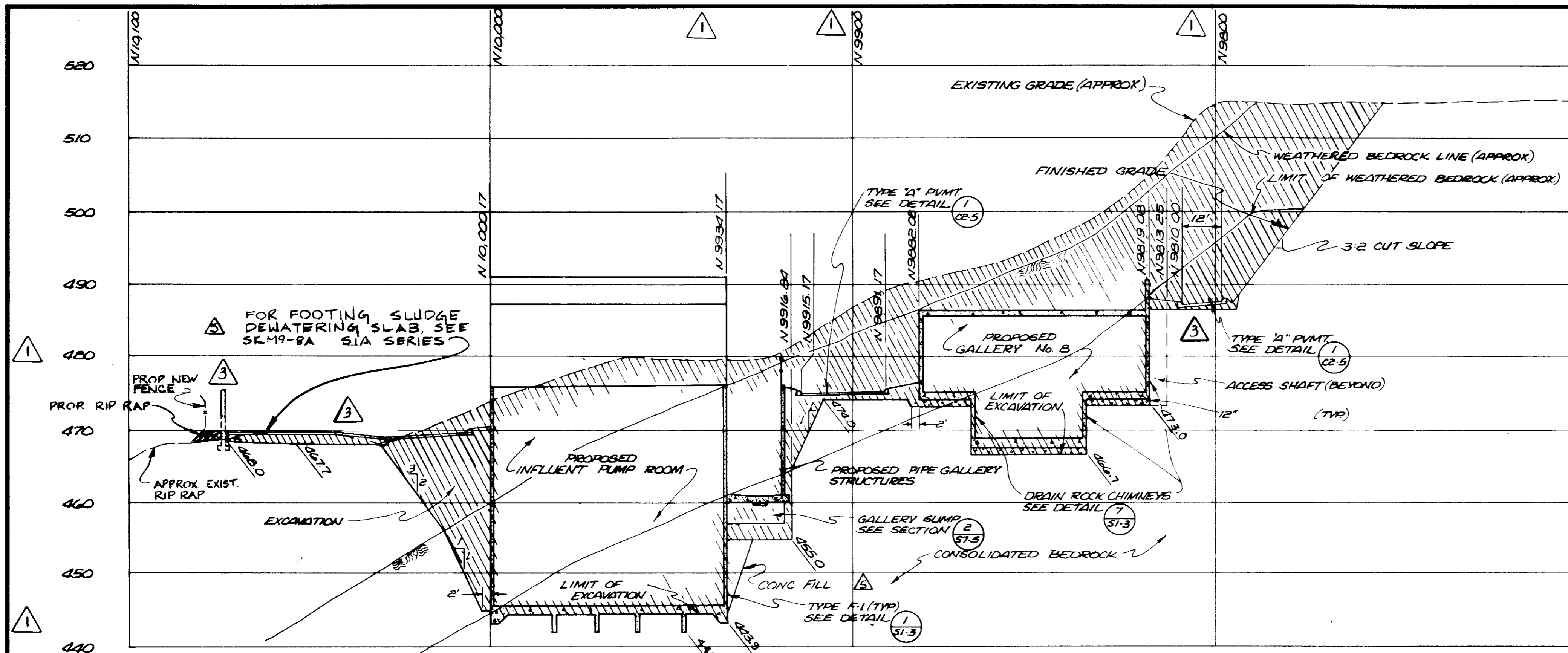
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 PROJECT MANAGER : [Signature]
 PROJECT ADMINISTRATOR : [Signature]

JK CONSULTING ENGINEERS
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 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 STRUCTURAL AND CIVIL EXCAVATION CROSS SECTIONS

SHEET
 C6-3

SHT. 5 of 10



RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Yoshitaka Katsura RCE 14038
KATSURA CONSULTING ENGINEERS March 1985

03054

REV	DATE	BY	DESCRIPTION
1	8-21-80	Y.K.	CLARIFICATION
2	8-21-80	Y.K.	COASTAL COMMISSION REV PART I
3	12-17-79	Y.K.	OAK TREE PRESERV. MOD.
4	11-3-79	Y.K.	REVISED ELEVATIONS
5	2-28-84	C.L.	REV PER MZA & J.C.E.

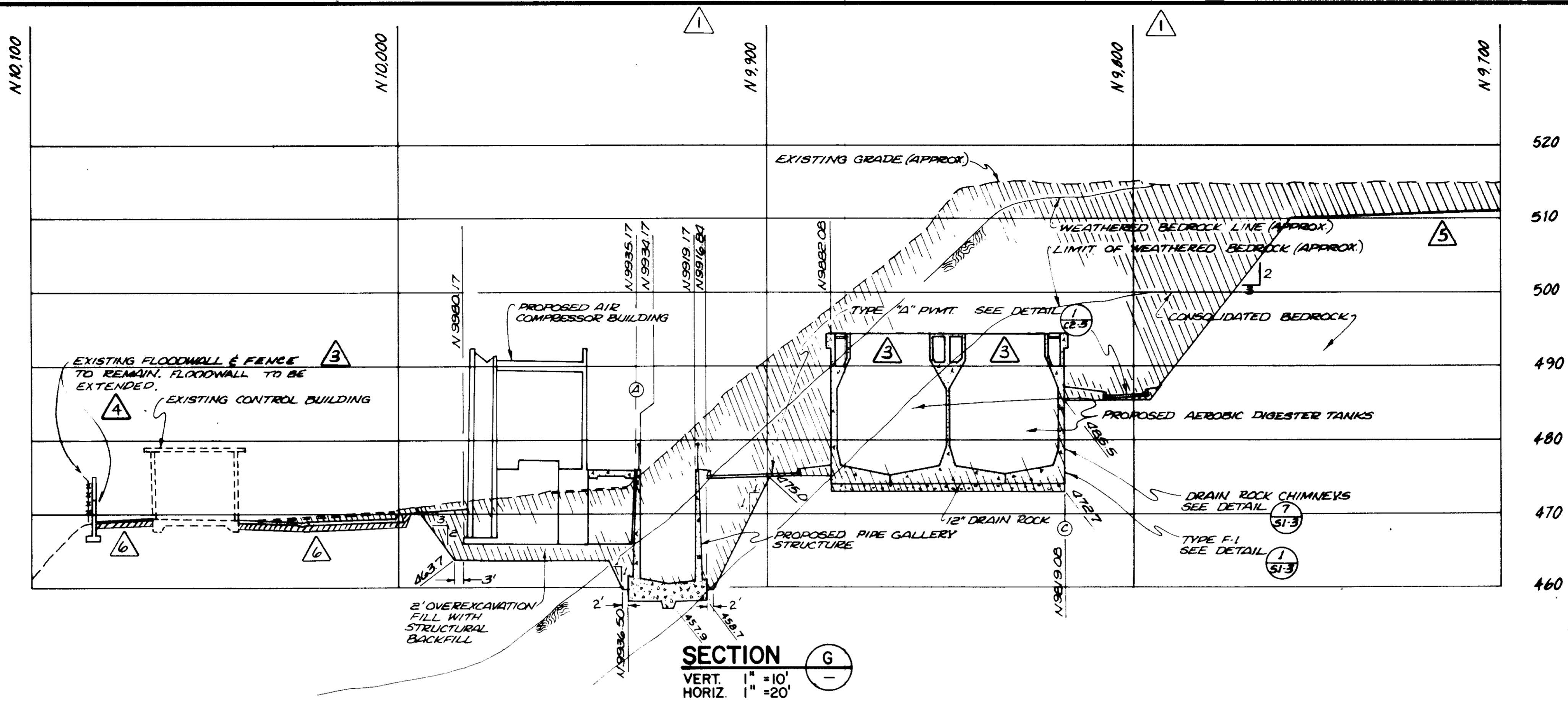
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DESIGNED :	TS
DRAWN :	RE / Y. KATSURA
CHECKED :	

SUBMITTED :	14038	11-4-79
PROJECT MANAGER :	R.C.E. NO.	DATE
DRAWN :	14894	11-4-79
PROJECT ADMINISTRATOR :	R.C.E. NO.	DATE

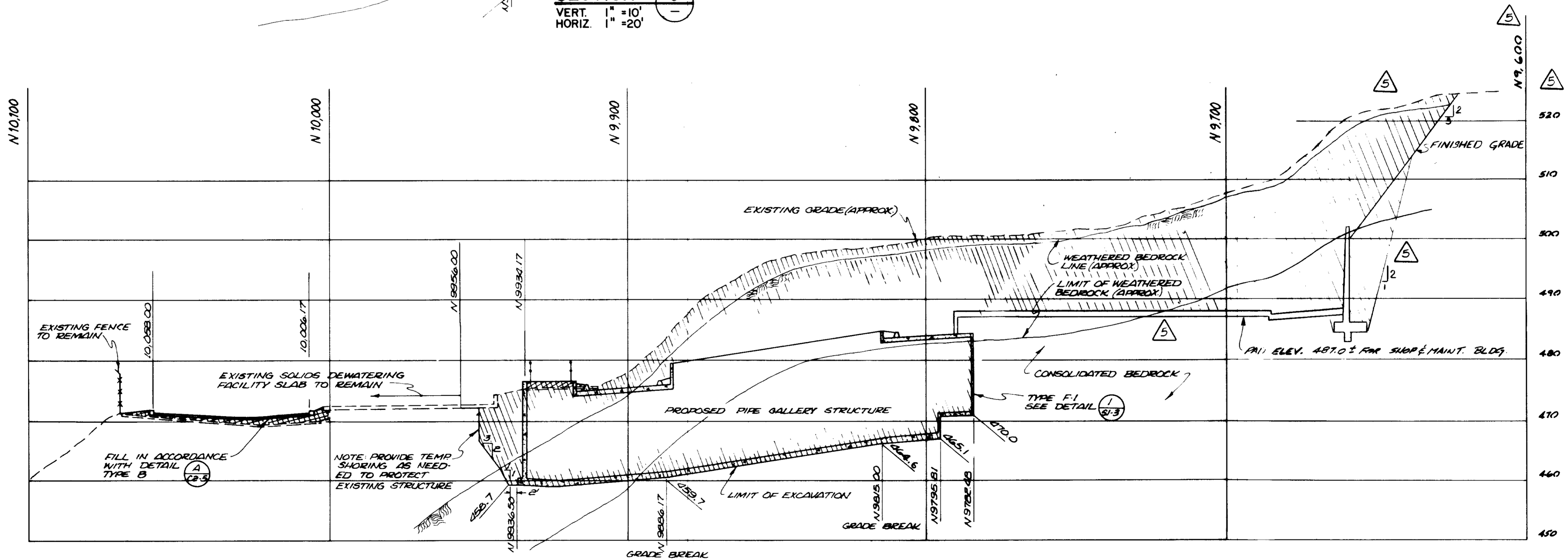
JKK CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
STRUCTURAL AND CIVIL EXCAVATION CROSS SECTIONS

SHEET
C6-4



SECTION G
 VERT. 1" = 10'
 HORIZ. 1" = 20'



SECTION H
 VERT. 1" = 10'
 HORIZ. 1" = 20'

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alger
Y. Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

03055

REV	DATE	BY	DESCRIPTION
3-26-85	Y.K.	CLARIFICATION	
3-23-85	Y.K.	COASTAL COMMISSION REV PART 2	

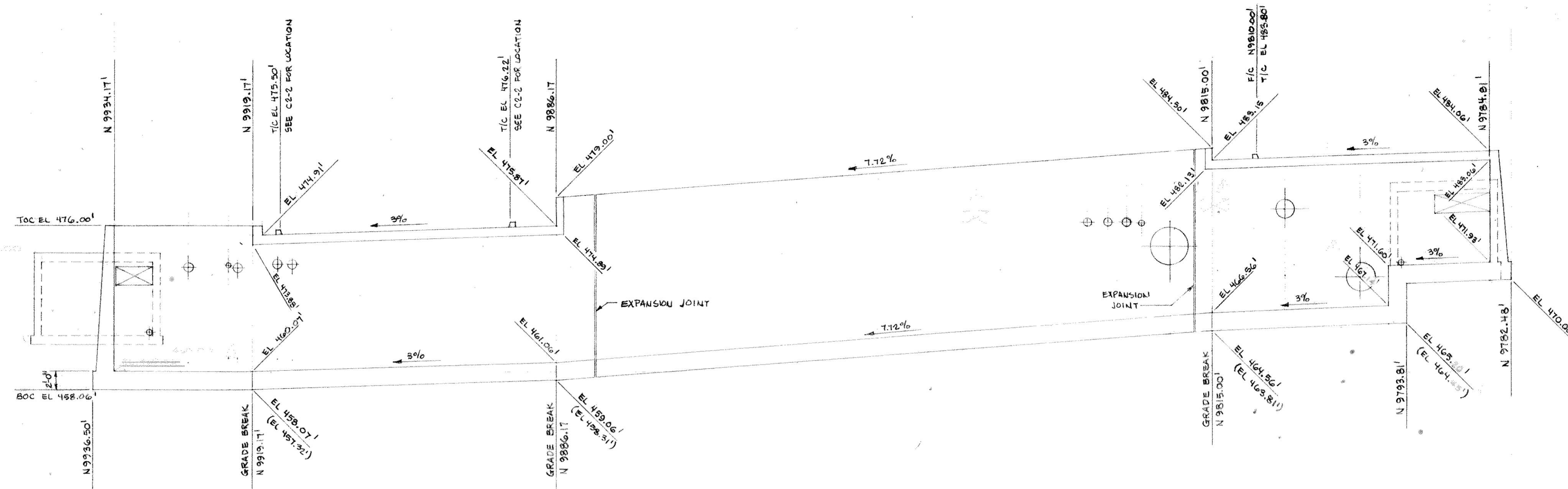
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DRAWN: RE/Y. KATSURA	CHECKED: [Signature]	PROJECT MANAGER: [Signature] R.C.E. NO. DATE
		PROJECT ADMINISTRATOR: [Signature] R.C.E. NO. DATE

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 (213) 933-9117

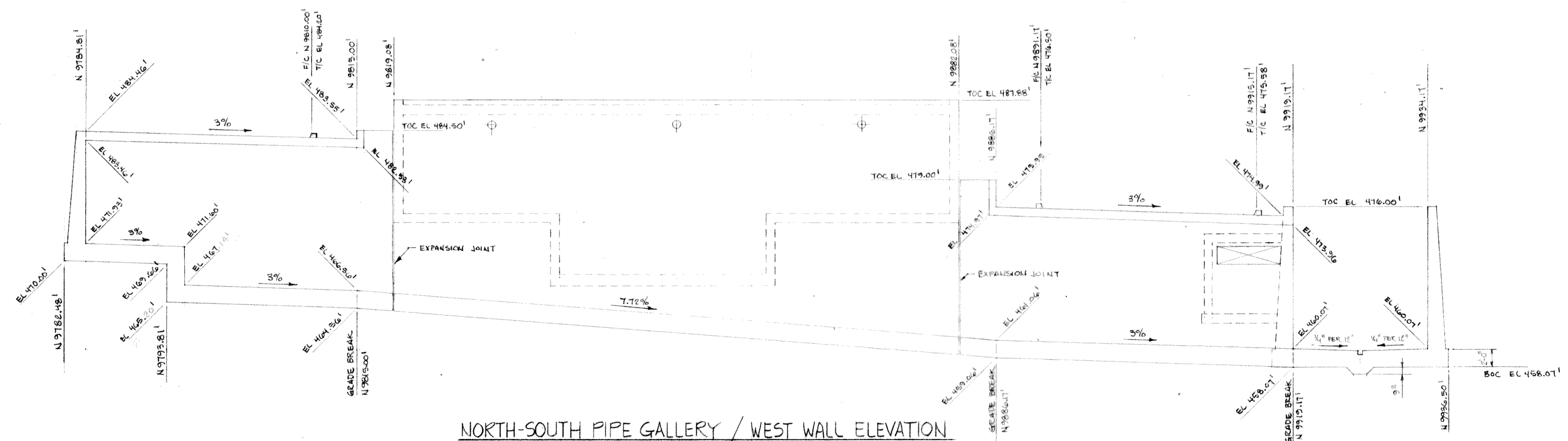
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
STRUCTURAL AND CIVIL EXCAVATION CROSS SECTIONS IV

SHEET
 C6-5

Sheet 7 of 10

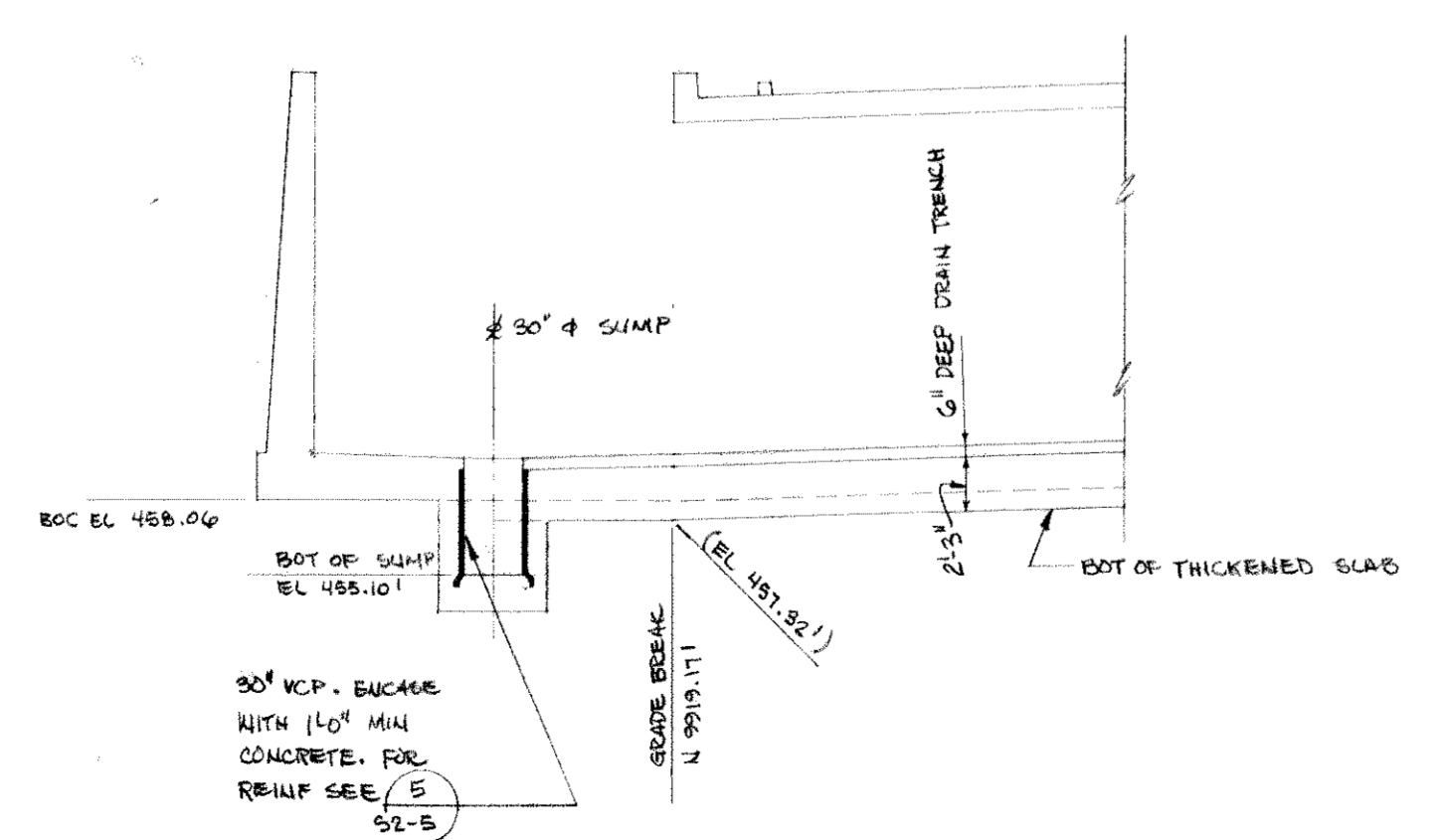


NORTH-SOUTH PIPE GALLERY / EAST WALL ELEVATION



NORTH-SOUTH PIPE GALLERY / WEST WALL ELEVATION

NOTE
 1. ELEVATIONS ENCLOSED WITH PARENTHESES "()" INDICATE BOTTOM OF DRAIN TRENCH.
 2. FOR SIZE AND LOCATION OF OPENINGS AND BLOCKOUTS, SEE YARD PIPING, ELECTRICAL AND STRUCTURAL DRAWINGS.

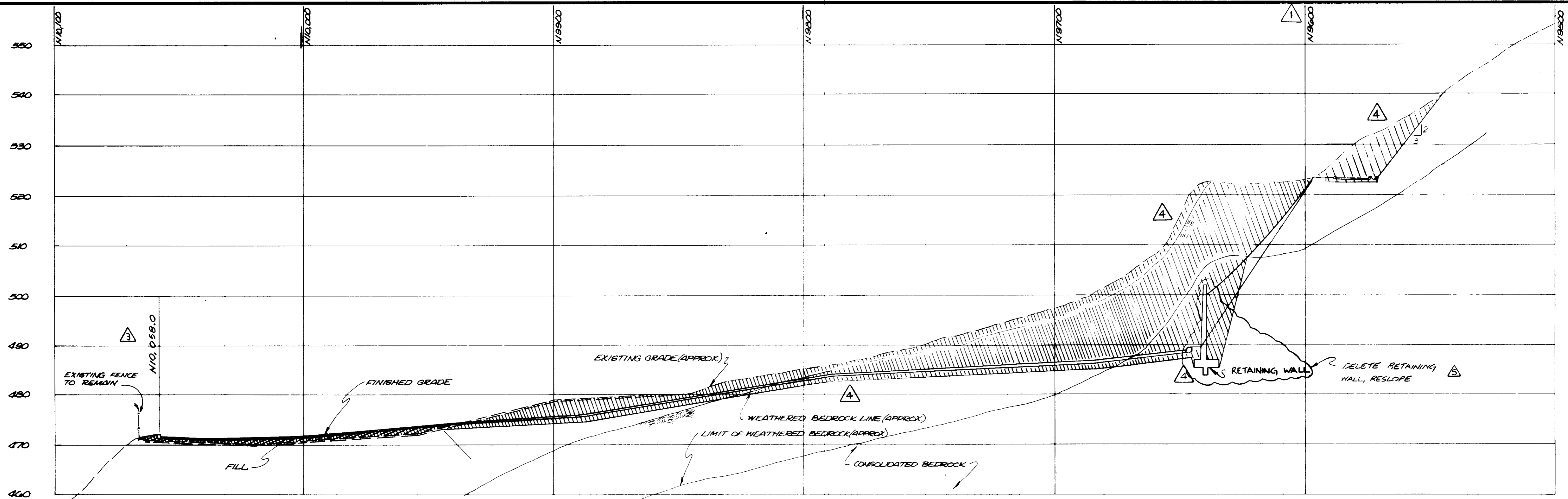


PARTIAL SECTION THRU DRAIN TRENCH

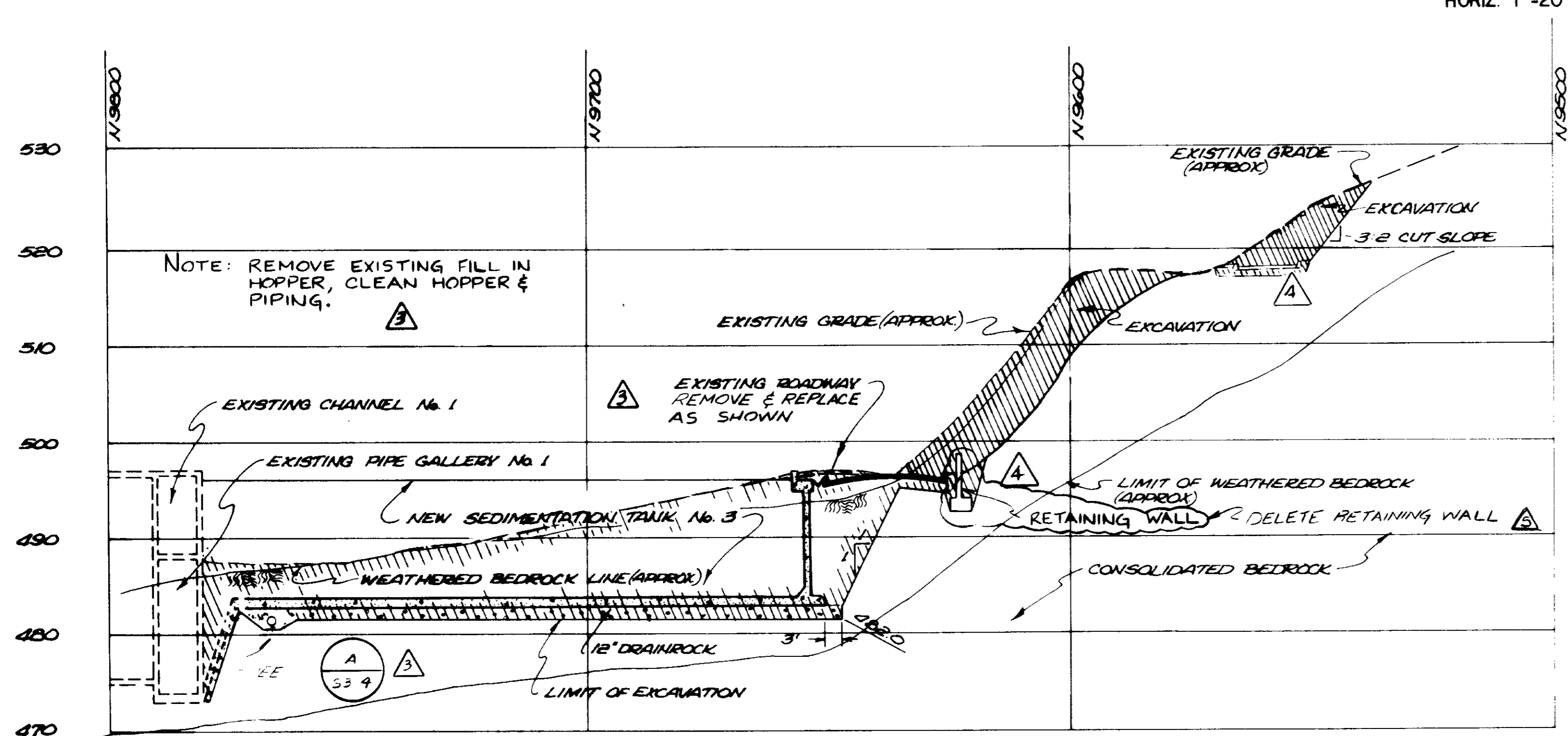
RECORD DRAWING
 Per Field Information Provided By Atkins-Steinberg & Alper
 York University
 KATSURA CONSULTING ENGINEERS
 RUC 14088
 March 1988

03056
 Sht. 8 of 10
 PCL-C5-7

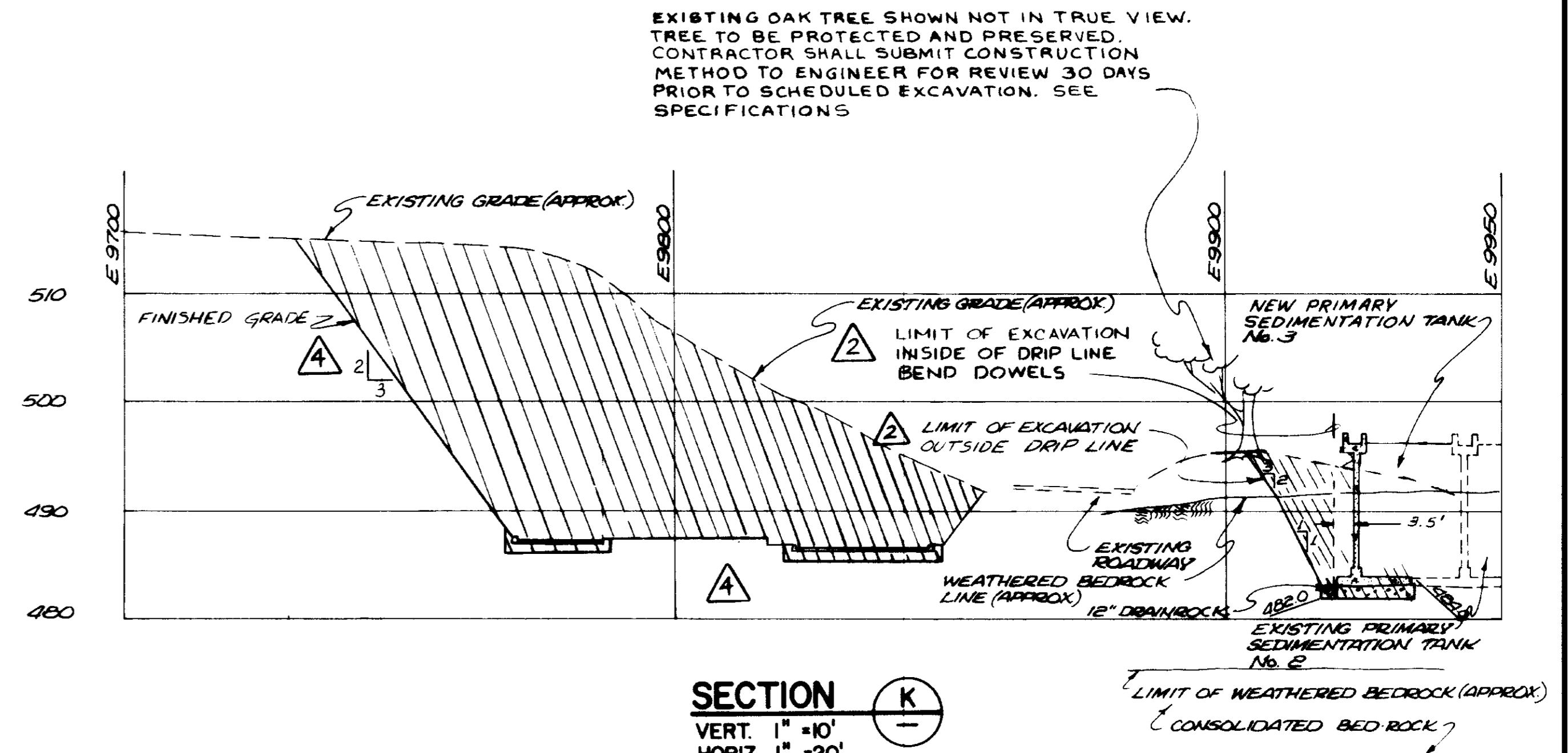
REV. DATE BY DESCRIPTION	KATSURA Consulting Engineers	DATE: 9/21/80	NORTH-SOUTH PIPE GALLERY ELEVATIONS	SKC6-5A
		BY: R. LEE		



SECTION I
 VERT. 1" = 10'
 HORIZ. 1" = 20'



SECTION J
 VERT. 1" = 10'
 HORIZ. 1" = 20'



SECTION K
 VERT. 1" = 10'
 HORIZ. 1" = 20'

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

03057

REV	DATE	BY	DESCRIPTION
1	3-26-85	Y.K.	COASTAL COMMISSION REV. PART 2
2	12-17-79	Y.K.	CLARIFICATION
3	12-15-79	Y.K.	OAK TREE PRESERV. MOD.
4	11-3-79	Y.K.	ADDED TREE PROTECTION NOTE.

SCALE:	AS NOTED
DESIGNED:	JAH/RCH
DRAWN:	RE/Y. KATSURA
CHECKED:	
SUBMITTED:	
PROJECT MANAGER:	14038 R.C.E. NO. DATE
PROJECT ADMINISTRATOR:	14894 R.C.E. NO. DATE

J&K CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 933-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
STRUCTURAL AND CIVIL EXCAVATION GROSS SECTIONS V

SHEET
C6-6

GENERAL STRUCTURAL NOTES

GENERAL

- G-1. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL WORK AND SHALL GOVERN UNLESS OTHERWISE SHOWN OR NOTED.
- G-2. STRUCTURAL WORK IS DEFINED ON DRAWINGS OF THE "S", "A", AND "C" SERIES.
- G-3. DRAWINGS OF SERIES S1 (i.e. S1-1, S1-2, etc.) SHOW TYPICAL STRUCTURAL DETAILS. THE DETAILS SHOWN ON THESE SHEETS SHALL APPLY TO ALL STRUCTURAL WORK UNLESS OTHERWISE SHOWN OR NOTED.
- G-4. THE CONTRACTOR SHALL COMPARE THE DRAWINGS SHOWING STRUCTURAL WORK WITH THE DRAWINGS SHOWING OTHER WORK (CIVIL, MECHANICAL, ETC.) FOR CONFORMANCE AS TO LAYOUT, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR IMMEDIATE ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE.
- G-5. SEE SPECIFICATIONS FOR INFORMATION NOT GIVEN IN THESE GENERAL NOTES OR SHOWN ON THE STRUCTURAL DRAWINGS.
- G-6. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN IN THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR FEATURES THAT ARE SHOWN OR CALLED FOR. WHERE UNCERTAINTY EXISTS, ASK ENGINEER FOR CLARIFICATION. DO NOT PROCEED UNTIL CLARIFICATION IS OBTAINED.

REINFORCED CONCRETE

- C-1. CONCRETE QUALITY SHALL BE AS FOLLOWS:

CONCRETE STRUCTURES, BUILDING FOUNDATIONS	$f'c = 3500$ PSI MINIMUM
FILL CONCRETE	$f'c = 2000$ PSI MINIMUM
- C-2. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 40.
- C-3. MINIMUM CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST EARTH	3"
CONCRETE EXPOSED TO EARTH, WEATHER OR LIQUIDS: #6 AND LARGER	2"
#5 AND SMALLER	1 1/2"
- C-4. WALLS 8" AND THICKER SHALL HAVE DOUBLE-CURTAIN REINFORCEMENT. WALLS UNDER 8" SHALL HAVE SINGLE-CURTAIN STEEL. MINIMUM TYPICAL REINFORCEMENT SHALL BE AS FOLLOWS:

WALL THICKNESS	MINIMUM REINFORCEMENT
LESS THAN 8"	#5 @ 12" EA. WAY
8" TO 11"	#4 @ 12" EA. WAY EA. FACE
OVER 11" TO 17"	#5 @ 12" EA. WAY EA. FACE
OVER 17"	#6 @ 12" EA. WAY EA. FACE

SEE TYPICAL DETAIL (S1-2) FOR ARRANGEMENT OF REINFORCEMENT.
- C-5. SLABS 8" AND THICKER SHALL HAVE REINFORCEMENT AT BOTH FACES. SLABS UNDER 8" SHALL HAVE ONE LAYER OF REINFORCEMENT. AT LEAST MINIMUM REINFORCEMENT SHALL RUN IN EACH DIRECTION OF EACH LAYER. MINIMUM REINFORCEMENT FOR SLABS CONTAINING LIQUIDS (TANK AND CHANNEL BOTTOMS, ETC.) SHALL BE AS FOR WALLS. (SEE NOTE C-4) MINIMUM REINFORCEMENT IN EITHER DIRECTION FOR OTHER SLABS SHALL BE AS FOLLOWS:

SLAB THICKNESS	MINIMUM REINFORCEMENT
LESS THAN 8"	#4 @ 12" EA. WAY
8" TO 16"	#4 @ 12" EA. WAY EA. FACE
OVER 16"	#5 @ 12" EA. WAY EA. FACE

(VALUES GIVEN ARE FOR GRADE 40 REBAR.)
- C-6. REINFORCEMENT SHALL BE CONTINUOUS UNLESS SHOWN OTHERWISE. SPLICES SHALL BE LOCATED AS SHOWN ON THE DETAIL DRAWINGS. WHERE A SPLICE ARRANGEMENT IS NOT INDICATED, BARS IN CONTINUOUS REINFORCEMENT MAY BE SPLICED AT THE CONTRACTOR'S CONVENIENCE, IN ACCORDANCE WITH MINIMUM SPLICE REQUIREMENTS FOLLOWING IN NOTE C-7.
- C-7. THE MINIMUM LAP LENGTH FOR SPLICES IN REINFORCEMENT SHALL BE AS FOLLOWS BELOW. THESE LENGTHS ARE APPLICABLE FOR REINFORCEMENT GRADE 40 AND CONCRETE STRENGTH $f'c = 3500$ PSI. WHERE BARS OF TWO DIFFERENT SIZES ARE SPLICED, THE SMALLER BAR SHALL GOVERN FOR LAP LENGTH.

MINIMUM LAP LENGTH		
BAR SIZE	50% OR LESS OF BARS SPLICED AT ONE LOCATION	MORE THAN 50% OF BARS SPLICED AT ONE LOCATION
#3	1'-0"	1'-2"
#4	1'-0"	1'-2"
#5	1'-1"	1'-5"
#6	1'-4"	1'-9"
#7	1'-10"	2'-4"
#8	2'-4"	3'-1"
#9	3'-0"	3'-10"
#10	3'-9"	4'-11"

THE MINIMUM OFFSET FOR STAGGERED SPLICES SHALL EQUAL THE MINIMUM LAP LENGTH FOR THE SPLICE REINFORCEMENT.

MIN. LAP LENGTH MIN. OFFSET FOR STAGGERED SPLICES = MIN. LAP LENGTH

REINFORCING BAR

STRUCTURAL STEEL

- S-1. STRUCTURAL STEEL MATERIAL SHALL CONFORM TO ASTM A36. BOLTS SHALL CONFORM TO ASTM A307. E 70 WELDING ELECTRODES SHALL BE USED.
 - S-2. STEEL FOR STEEL DECK SHALL CONFORM TO ASTM A446 OR ASTM A611 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 33000 PSI. SECTION PROPERTIES SHALL CONFORM TO THE AMERICAN IRON & STEEL INSTITUTE "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
 - S-3. ALL WORKMANSHIP SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- ~~ALL STEEL SHALL BE GALVANIZED~~
- S-4. STRUCTURAL STEEL SHALL BE GALVANIZED, EXCEPT FOR ROOF FRAMES AND BOX GIRDETS.

CONCRETE MASONRY UNITS (CMU)

- M-1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N. MORTAR SHALL BE TYPE M. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
- M-2. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 40. REINFORCEMENT SHALL BE PLACED IN CENTER OF WALLS UNLESS SHOWN OR NOTED OTHERWISE. LAP BARS MINIMUM 48 DIAMETERS AT SPLICES.
- M-3. SPECIAL INSPECTION SHALL BE PROVIDED FOR CONCRETE UNIT MASONRY WORK (SEE SPECS). ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM UNITS. ALL CELLS SHALL BE GROUTED SOLID.

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura RCE 14038
KATSURA CONSULTING ENGINEERS March 1988

METAL ROOF DECK

- R-1. STEEL ROOF DECK SHALL BE EQUAL TO H.H. ROBERTSON, SECTION Q-3, 18 GA. MIN. THICKNESS.
- R-2. STEEL ROOF DECK UNITS SHALL BE JOINED WITH 1-1/2" SIDE SEAM WELDS AT 18" O.C. THROUGHOUT. SEAM WELDS PER MANUFACTURERS REQUIREMENTS.
- R-3. STEEL ROOF DECK UNITS SHALL BE ATTACHED TO STRUCTURAL STEEL SUPPORTS WITH 1-1/2" (EFFECTIVE DIAMETER) PLUG WELDS AT 12" O.C. MAX.
- R-4. ALUMINUM ROOF DECK SHALL BE EQUAL TO ELWIN G. SMITH DIVISION, CTCLOPS CORPORATION, UNINSULATED DYNASPAN ROOFING, 0.04" MIN. THICKNESS.
- R-5. ALUMINUM ROOF DECK UNITS SHALL BE JOINED WITH STAINLESS STEEL SELF-TAPPING SCREWS (#14 X LENGTH) AT 16" O.C. MAX.
- R-6. ALUMINUM ROOF DECK UNITS SHALL BE ATTACHED TO STRUCTURAL STEEL SUPPORTS AT 12" O.C. MAX., WITH #14 STAINLESS STEEL SCREWS USING NEOPRENE WASHERS BETWEEN STEEL SUPPORTS AND ALUMINUM DECK.
- R-7. UNLESS OTHERWISE SHOWN ON DWGS., ALL METAL DECK SHALL BE INSTALLED TO PROVIDE A MINIMUM OF TWO CONTINUOUS ADJACENT SPANS OVER STRUCTURAL SUPPORTS.

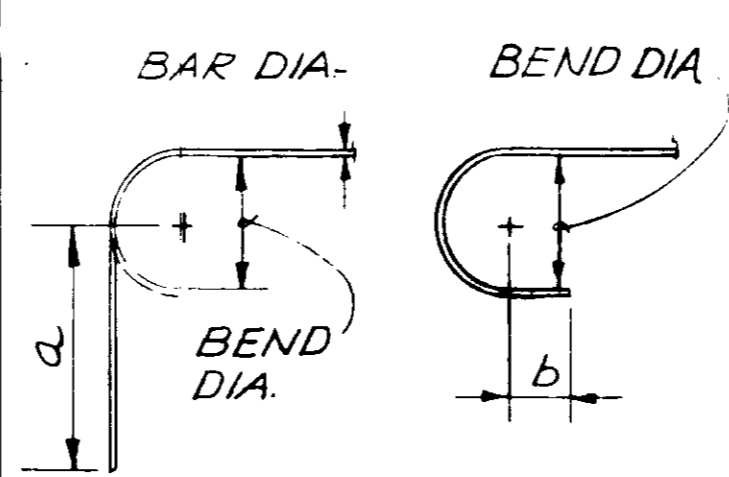
WATERSTOPS

- WS-1. PROVIDE CONTINUOUS WATERSTOPS AT ALL CONSTRUCTION AND EXPANSION JOINTS FOR STRUCTURES CONTAINING LIQUIDS AND AS SHOWN ON DRAWINGS. WATERSTOPS SHALL BE MINIMUM 4"

LIST OF ABBREVIATIONS

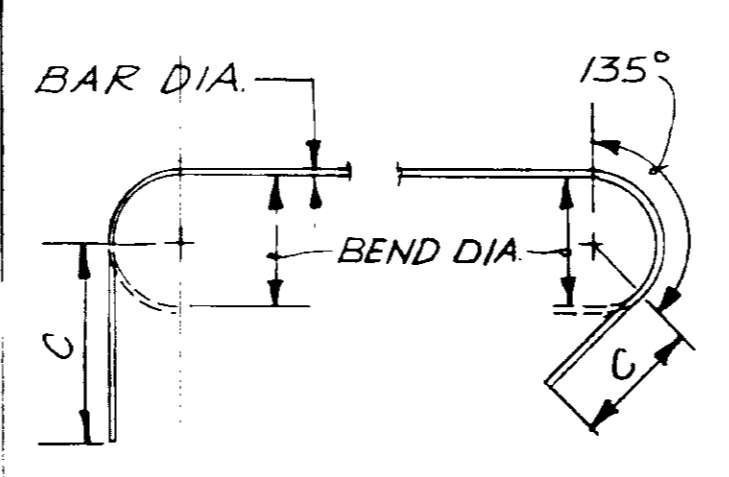
AB	ANCHOR BOLT	EXP. JT.	EXPANSION JOINT	REINF.	REINFORCEMENT
AL	ALUMINUM	EXIST.	EXISTING	SIM.	SIMILAR
ASS'Y	ASSEMBLY	F.D.	FLOOR DRAIN	SPECS.	SPECIFICATIONS
BOT.	BOTTOM	FDN.	FOUNDATION	SQ.	SQUARE
C TO C	CENTER TO CENTER	FTG.	FOOTING	STD.	STANDARD
C.J.	CONSTRUCTION JOINT	GALV.	HOT DIP GALVANIZED	STRUCT.	STRUCTURES
C.	CENTER LINE	I.F.	INSIDE FACE	SYMM.	SYMMETRICAL
CLR.	CLEARANCE	MAX.	MAXIMUM	T & B	TOP AND BOTTOM
COL.	COLUMN	M.B.	MACHINE BOLTS	T.O.C.	TOP OF CONCRETE
CONC.	CONCRETE	MIN.	MINIMUM	T.F.	TOP FACE
CONN.	CONNECTION	N.W.S.	NORMAL WATER SURFACE	T.O.S.	TOP OF STEEL
CONT.	CONTINUOUS	O.C.	ON CENTER	T.O.W.	TOP OF WALL
CTR.	CENTER	O.F.	OUTSIDE FACE	TYP.	TYPICAL
C.M.U.	CONCRETE MASONRY UNIT	O.T.O.	OUT TO OUT	VERT.	VERTICAL
DIA.	DIAMETER	OPNG.	OPENING	W.S.	WATERSTOP
DWG.	DRAWING	P.J.F.	PREMOLDED JOINT FILLER	W.W.M.	WELDED WIRE MESH
E.A.	EACH FACE	R.C.	REINFORCED CONCRETE		
E.L.	ELEVATION				
E.W.	EACH WAY				

NOTE: FOR ABBREVIATIONS NOT LISTED, SEE "ABBREVIATIONS FOR USE ON DRAWINGS AND TEXT" PUBLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE INC. (ANSI)



ALL REINFORCEMENT OTHER THAN STIRRUPS AND TIES

BAR SIZE	MIN. BEND DIA.	MINIMUM EXTENSION a	MINIMUM EXTENSION b
3	2 1/4"	4 1/2"	2 1/2"
4	3"	6"	2 1/2"
5	3 3/4"	7 1/2"	2 1/2"
6	4 1/2"	9"	3"
7	5 1/4"	10 1/2"	3 1/2"
8	6"	12"	4"
9	9"	15 1/2"	4 1/2"
10	10 1/4"	15 1/4"	5 1/4"

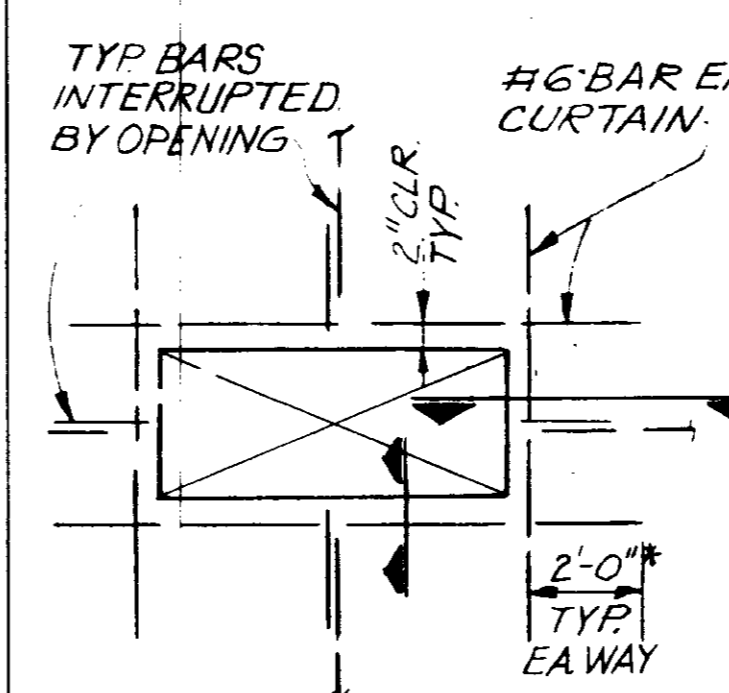
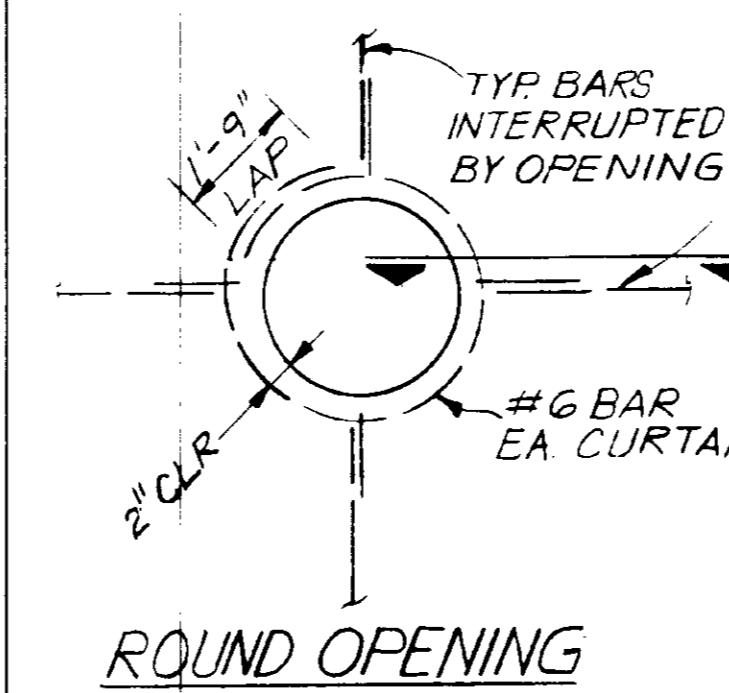


BAR SIZE	MIN. BEND DIA.	MINIMUM EXTENSION c
3	1 1/2"	2 1/2"
4	2"	3"
5	2 1/2"	3 3/4"

STIRRUPS AND TIES

TYPICAL BAR HOOKS AND BENDS

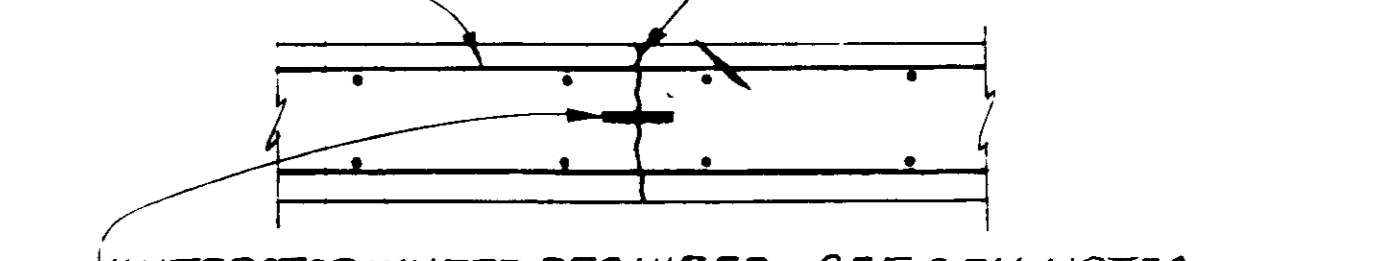
NOTE: BEND DIA. IS MEASURED ON INSIDE OF BAR



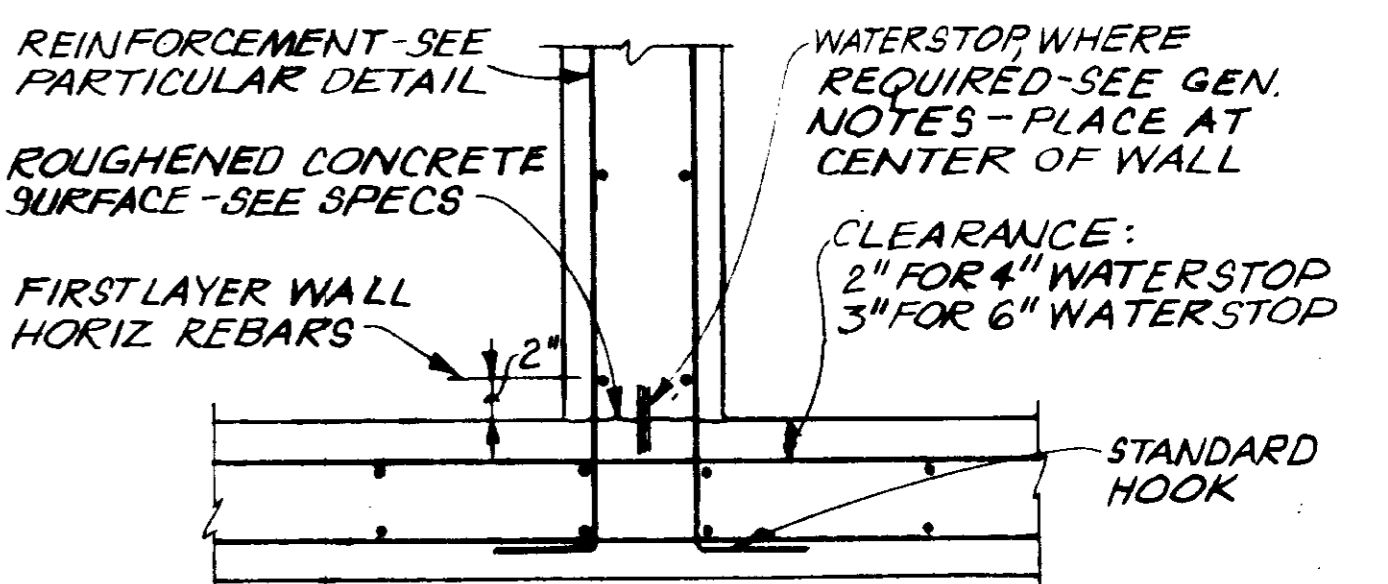
RECTANGULAR OPENING

NOTE: USE #6 BAR OR BAR ONE SIZE LARGER THAN WALL REINFORCING, WHICHEVER IS GREATER. LAP SPLICES AND TRIM BAR EXTENSIONS SHALL NOT BE LESS THAN THE LARGER MINIMUM LAP SPLICE NOTED IN PARA. C7 OF GENERAL STRUCTURAL NOTES.

REINFORCEMENT CONTINUOUS ACROSS JOINT MAY BE SPLICED IN ACCORDANCE WITH PROVISIONS OF GEN. NOTES

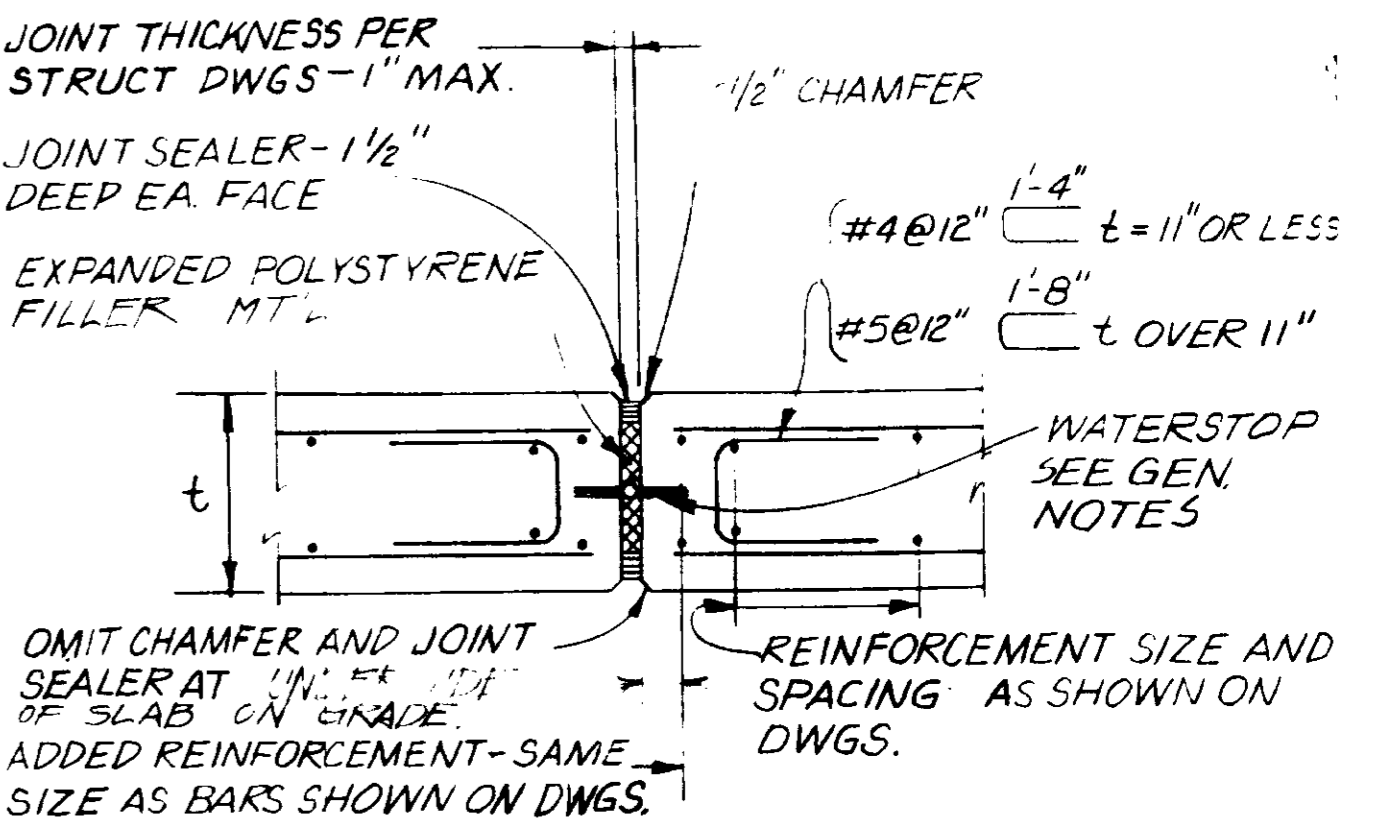


CONSTRUCTION JOINT TYPE C-1
SLAB JOINT; HORIZONTAL OR VERTICAL WALL JOINT

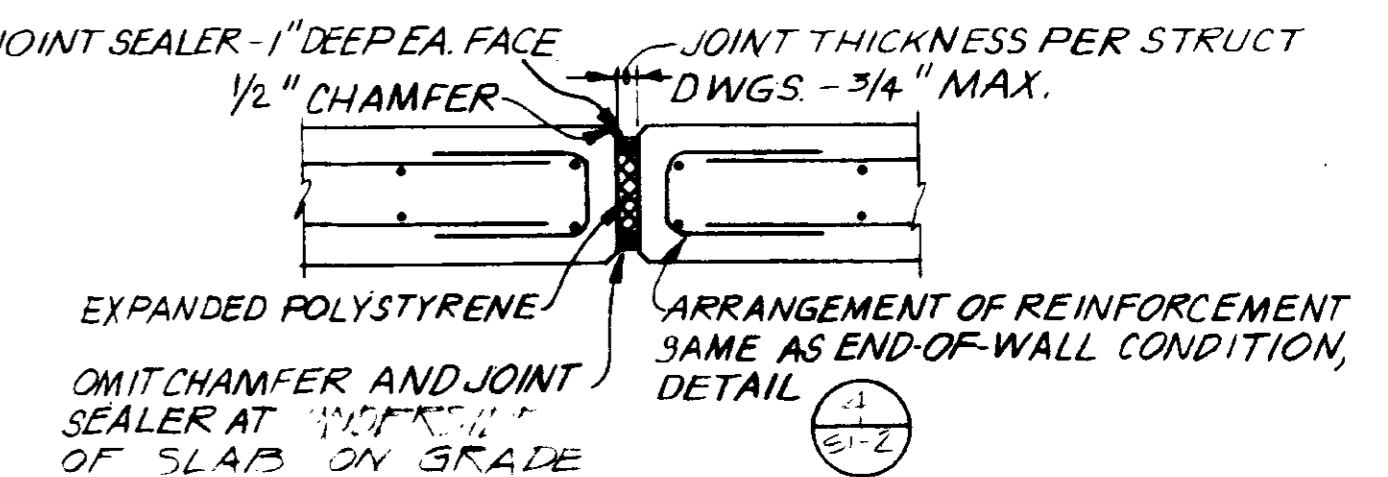


CONSTRUCTION JOINT TYPE C-2
WALL BASE

NOTE: DETAILS SIMILAR FOR SINGLE-CURTAIN REINFORCEMENT. WATERSTOPS WILL NOT BE REQUIRED FOR SECTIONS LESS THAN 8"



EXPANSION JOINT TYPE E-1
SLABS; WALL VERTICAL JOINTS



EXPANSION JOINT TYPE E-2
SLABS; WALL VERTICAL JOINTS

REV	DATE	BY	DESCRIPTION

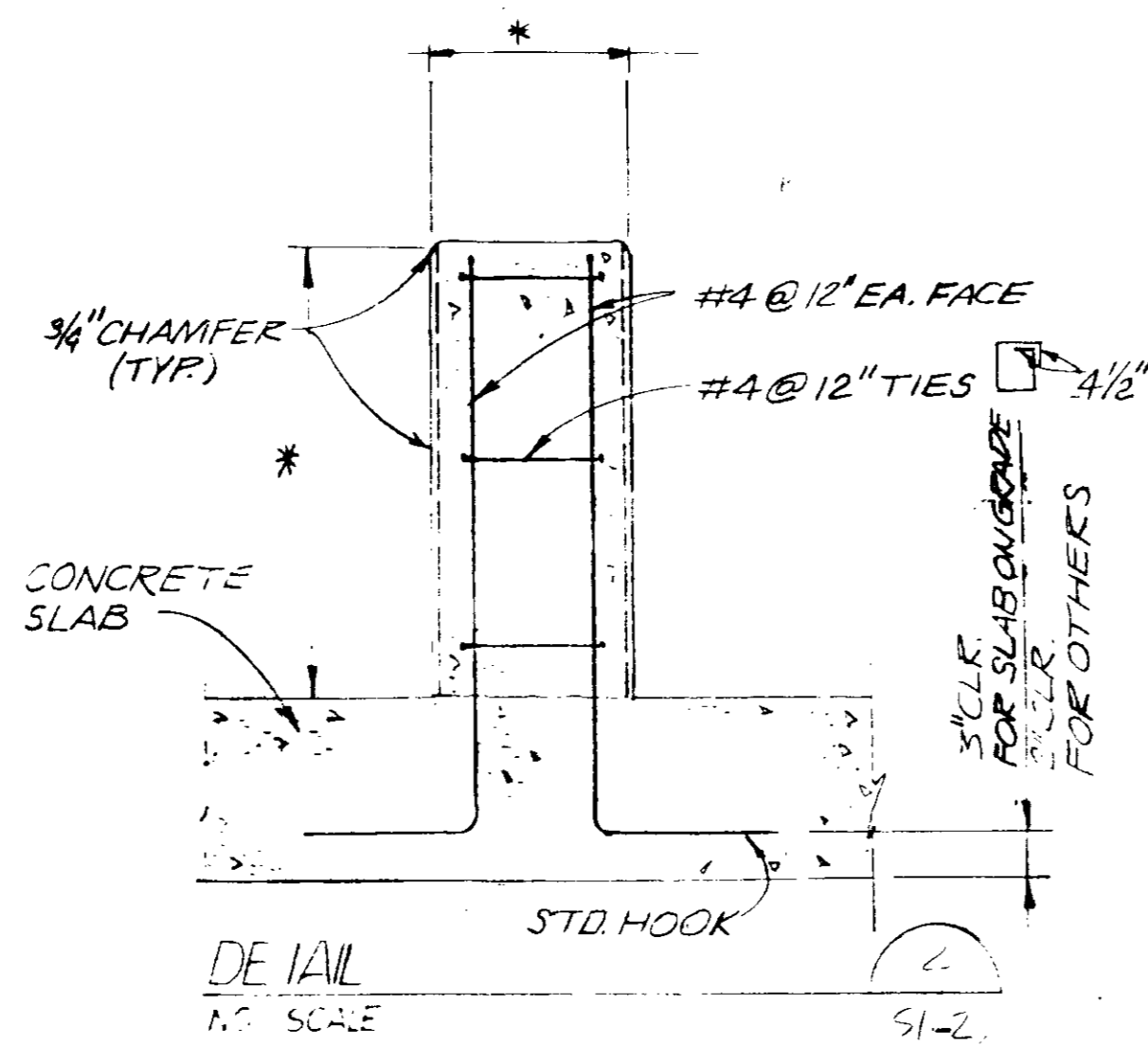
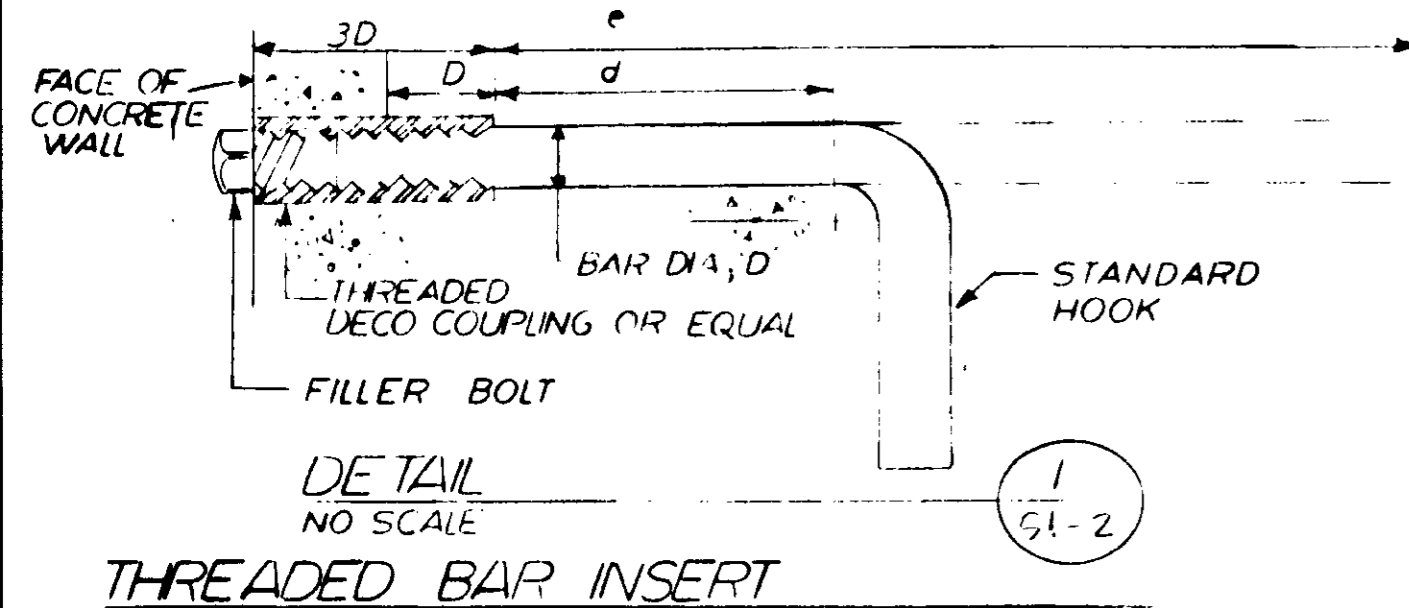
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PROJECT MANAGER: <i>Yuh Katsura</i>	14038	11-5-79	R.C.E. NO. DATE
PROJECT ADMINISTRATOR: <i>Yuh Katsura</i>	14884	4-1-80	R.C.E. NO. DATE

JK CONSULTING ENGINEERS
A JOINT VENTURE
8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
STRUCTURAL - GENERAL NOTES & TYPICAL DETAILS

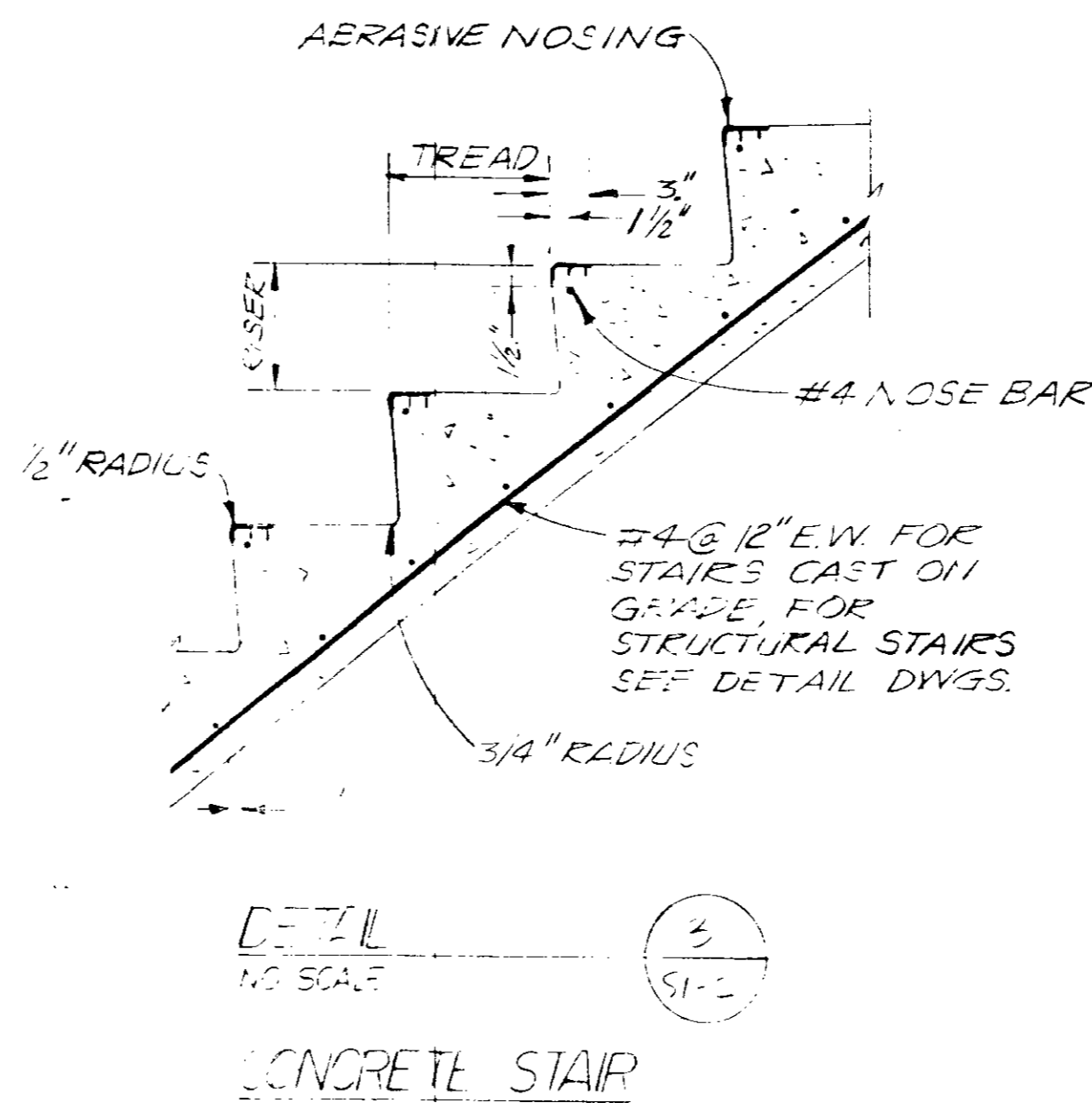
SHEET SI-1

BAR SIZE	EMBEDMENT d	DIMENSION e	ROOT DIAMETER
#5	6"	8 1/2"	0.507
#6	6"	9"	0.620
#7	8 1/4"	11 3/4"	0.731
#8	10 3/4"	14 3/4"	0.838
#9	13 1/2"	19 1/4"	0.939
#10	17 1/4"	23 1/2"	1.064
#11	21 1/4"	28 1/4"	1.158

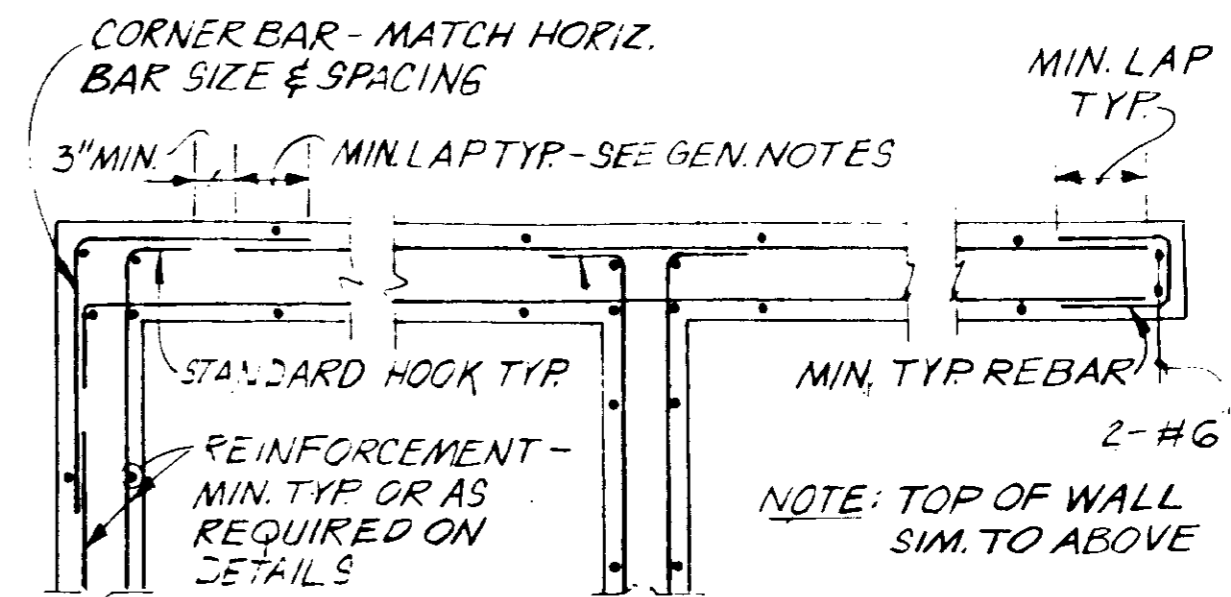


DETAIL NO SCALE 2/51-2
CONCRETE PIER FOR PIPE SUPPORT

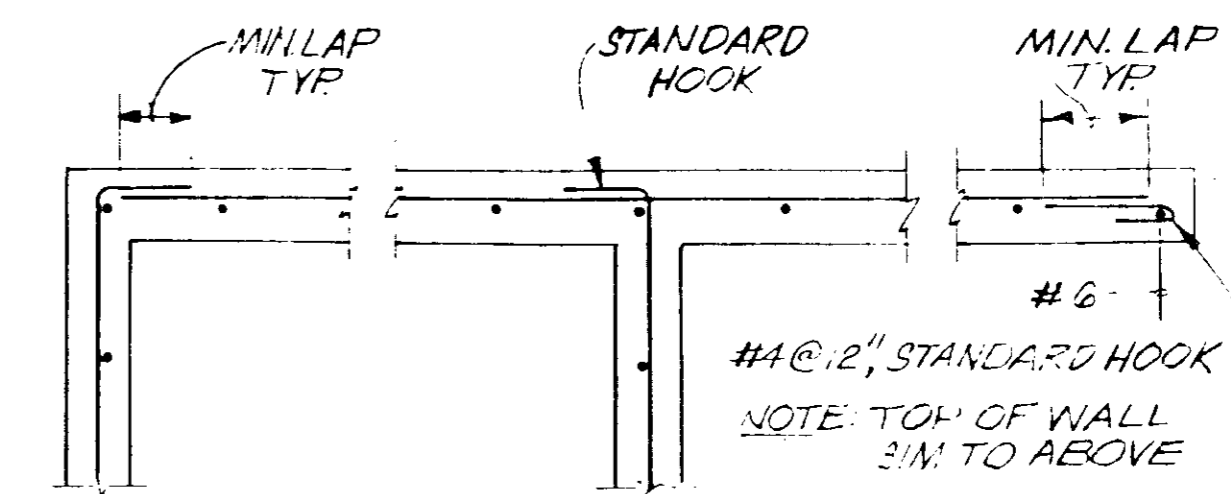
* SEE OTHER DWGS. FOR SPECIFIC DIMENSIONS



DETAIL NO SCALE 3/51-2
CONCRETE STAIR

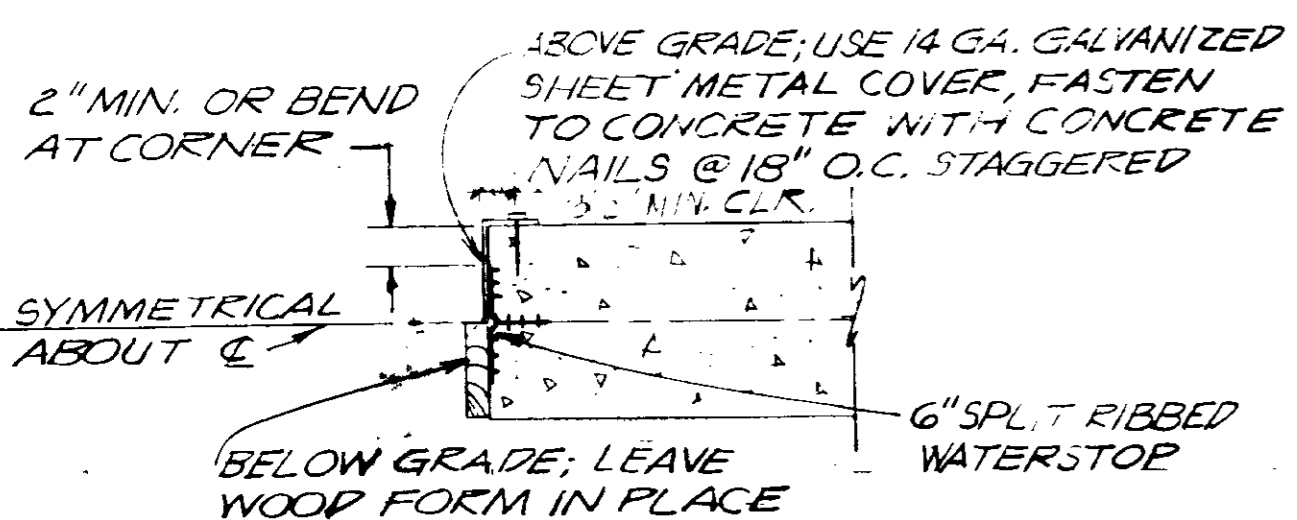
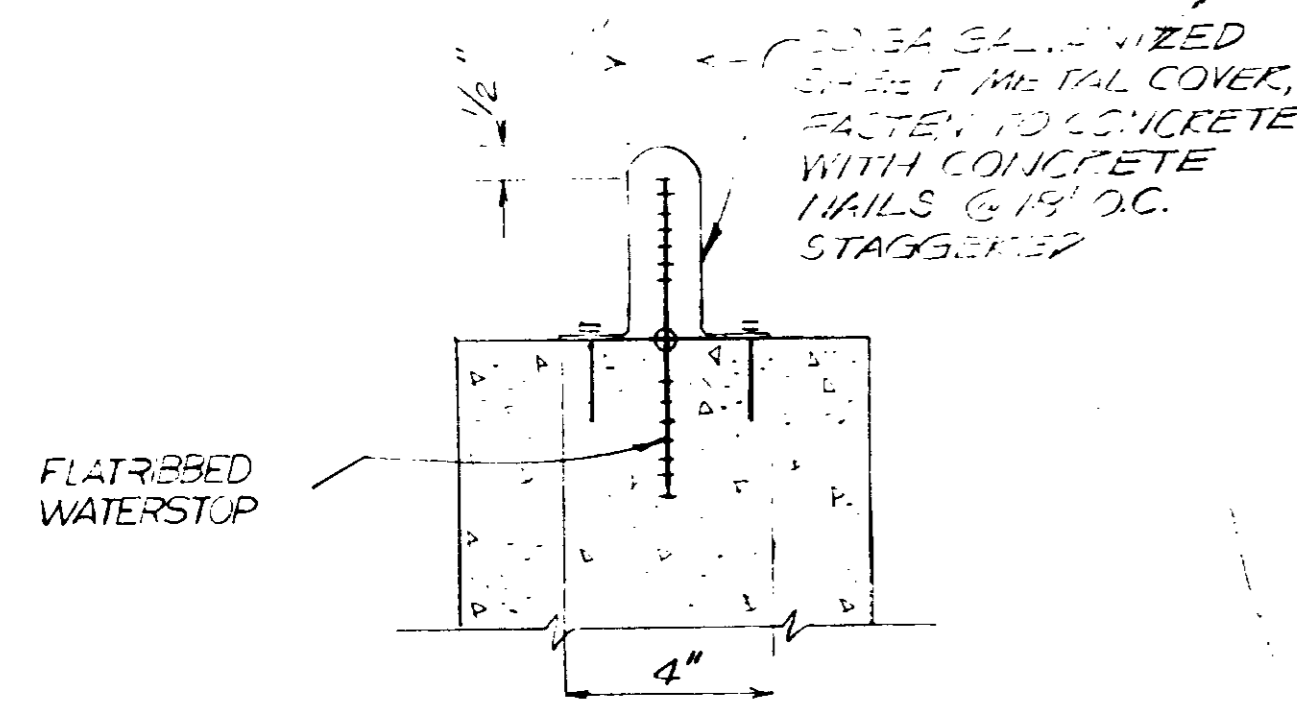


PLAN - DOUBLE CURTAIN STEEL ALL WALLS 3" AND THICKER

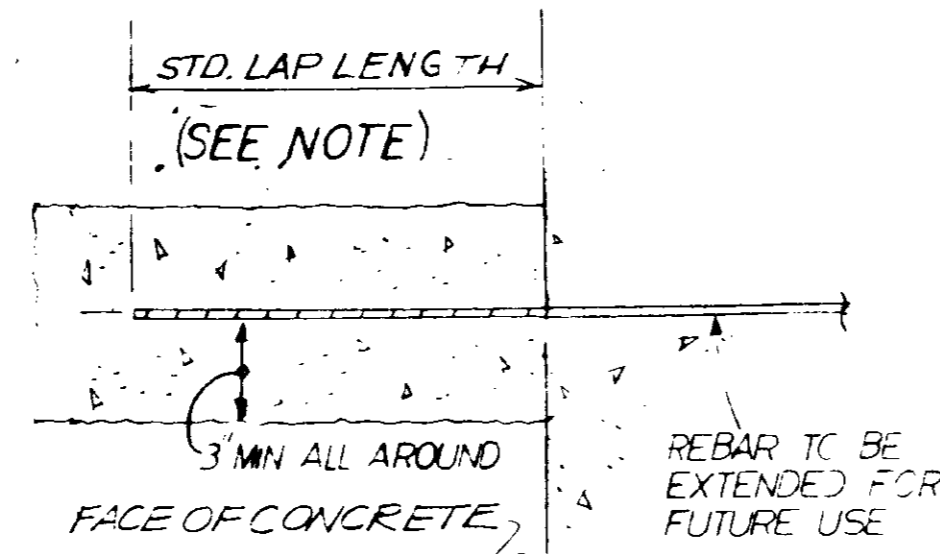


PLAN - SINGLE CURTAIN STEEL ALL LESS THAN 3" THICK

DETAIL NO SCALE 4/51-2
NOTE: SEE GEN. NOTES FOR MIN. TYP. BAR SIZES & SPACING AND PERMITTED SPLICES. PLACE SINGLE CURTAIN OF STEEL @ CENTER OF WALL.

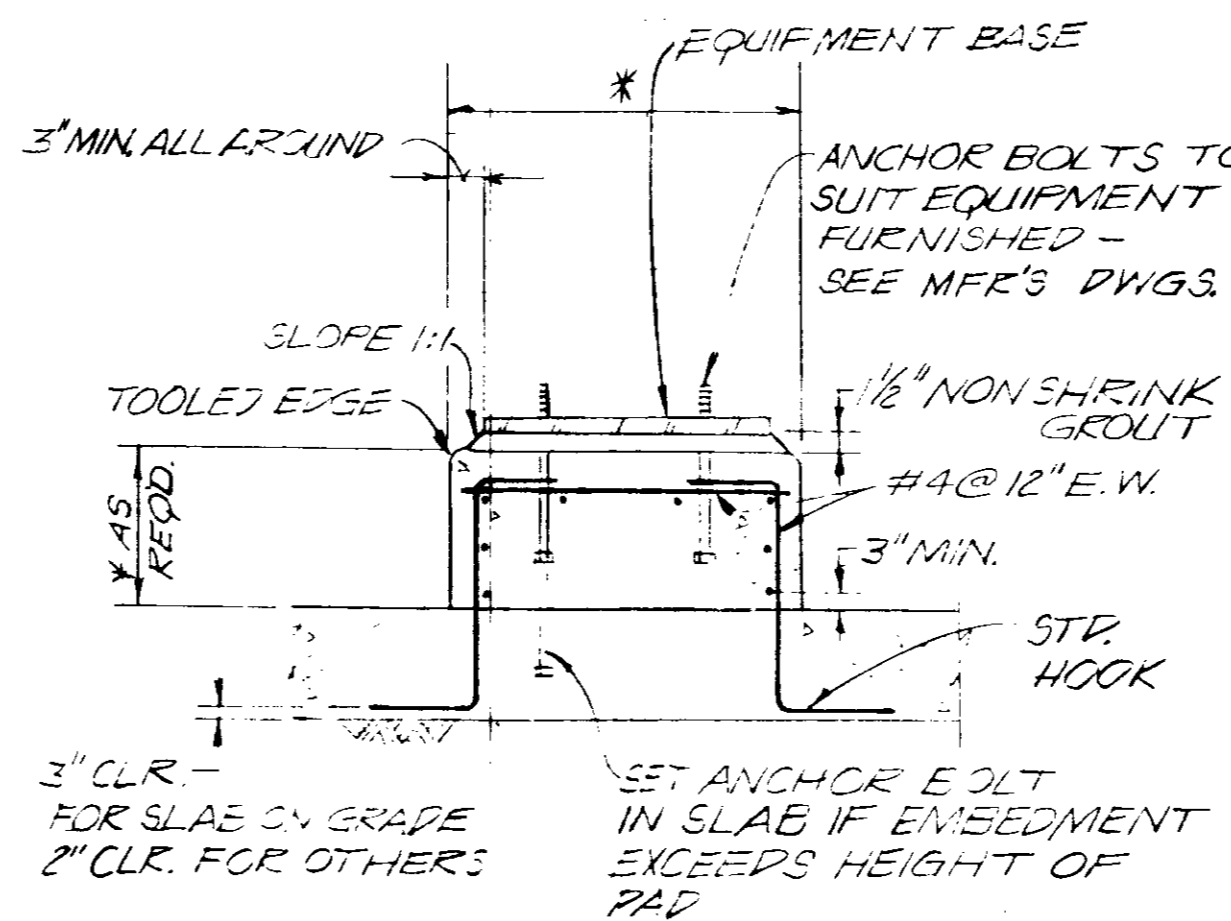


PROTECTIVE COVERS FOR EXPOSED WATERSTOPS 5/51-2

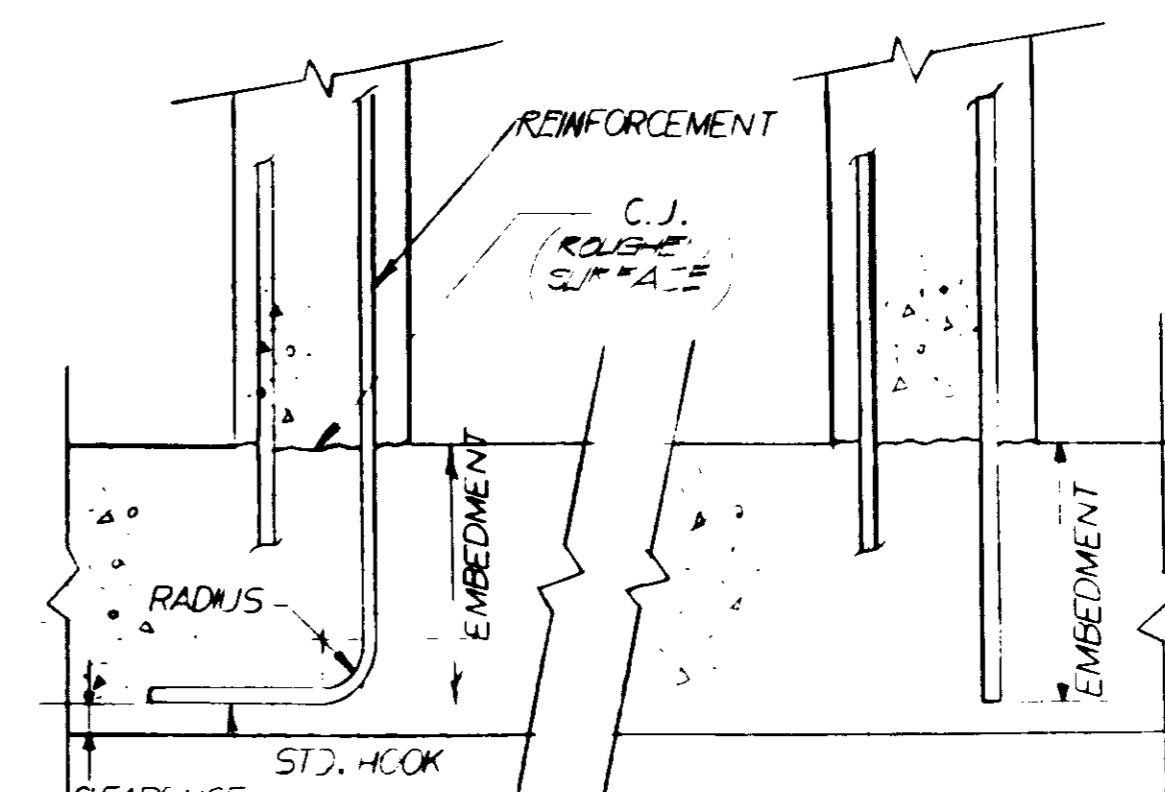


DETAIL NO SCALE 6/51-2
PROTECTION FOR BARS EXTENDED FROM CONCRETE

NOTE: WRAP EXPOSED LENGTH OF REINFORCED BAR WITH POLYETHYLENE BACKED PRESSURE SENSITIVE ADHESIVE TAPE 12 MILS MIN. THICKNESS



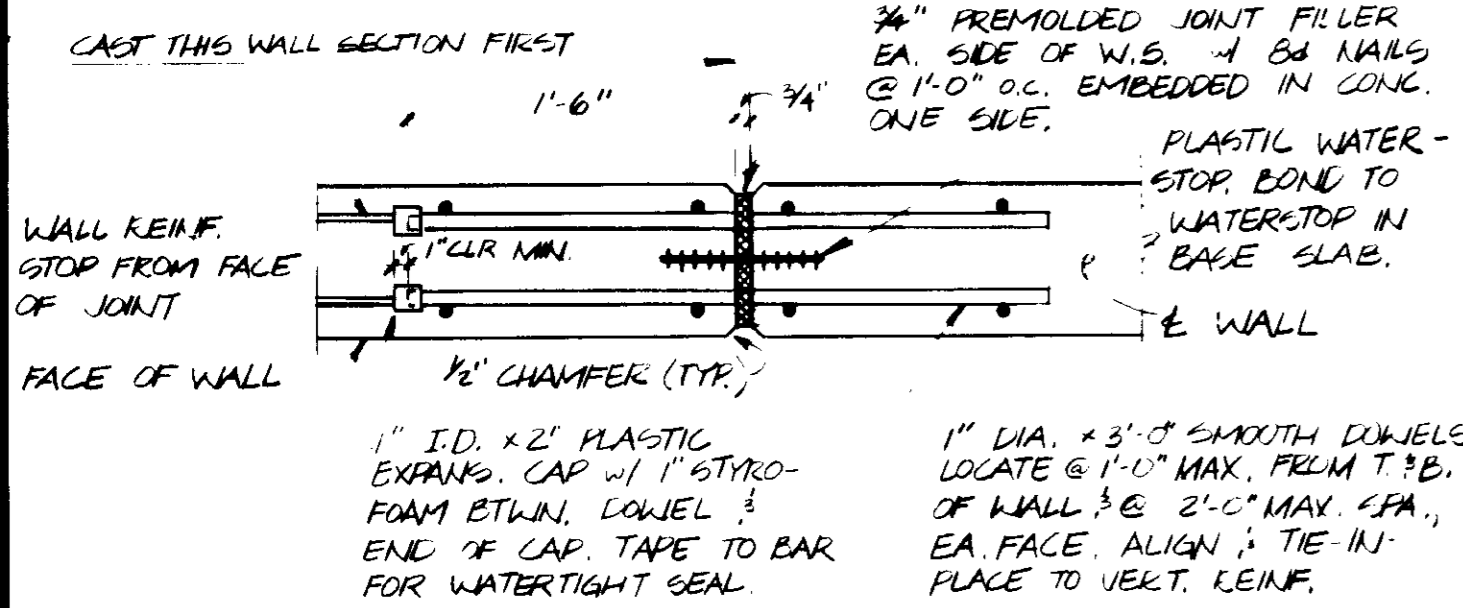
DETAIL NO SCALE 7/51-2
EQUIPMENT BASE
* SEE OTHER DWGS FOR SPECIFIC DIMENSIONS



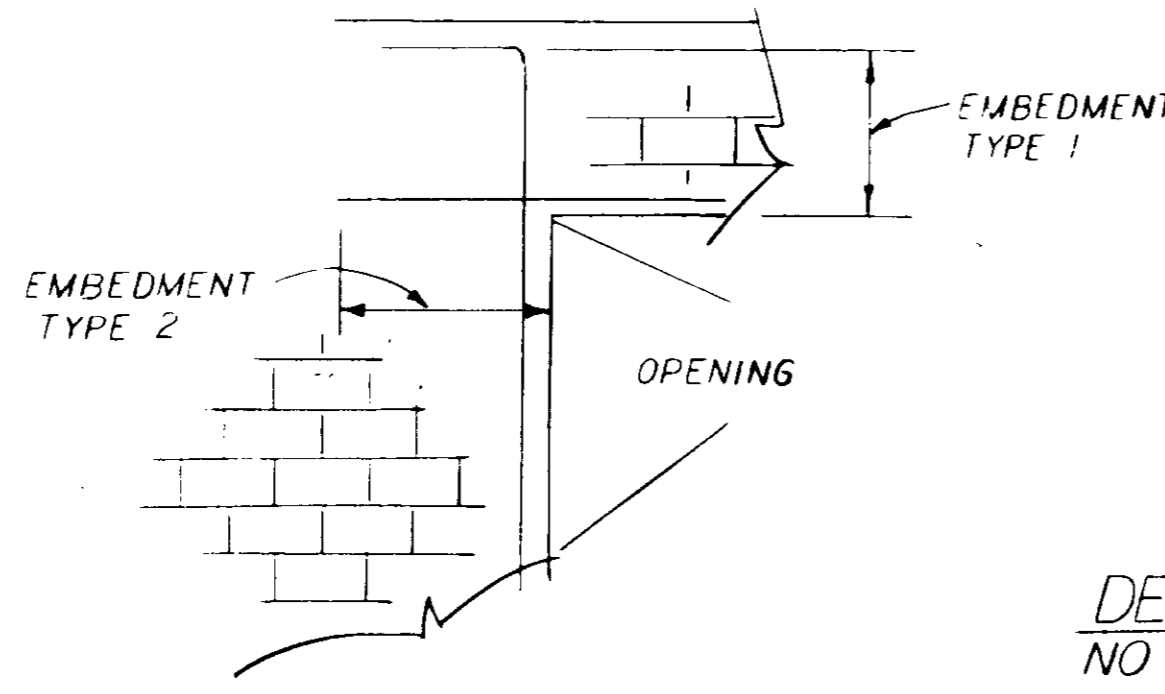
BAR SIZE	EMBEDMENT - INCHES*	
	TYPE 1	TYPE 2
#3	6	12
#4	6	12
#5	7	14
#6	9	18
#7	12	25
#8	15	32
#9	19	41

DETAIL NO SCALE 8/51-2
TYPICAL REINFORCEMENT EMBEDMENT

NOTE: UNLESS OTHERWISE NOTED, BARS SHALL BE EXTENDED TO THE FAR FACE & HOOKED AS SHOWN IN TYPE 1. IF THE EMBEDMENT LENGTH PROVIDED IS LESS THAN SPECIFIED IN THE TABLE, NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.



DETAIL NO SCALE 10/51-2
VERTICAL EXPANSION JOINT



DETAIL NO SCALE 9/51-2
TYPICAL REINF EMBEDMENT CMU WALL

BAR SIZE	EMBEDMENT - INCHES*	
	TYPE 1	TYPE 2
#3	10	14
#4	13	23
#5	16	28
#6	19	37
#7	22	46
#8	25	55
#9	29	64

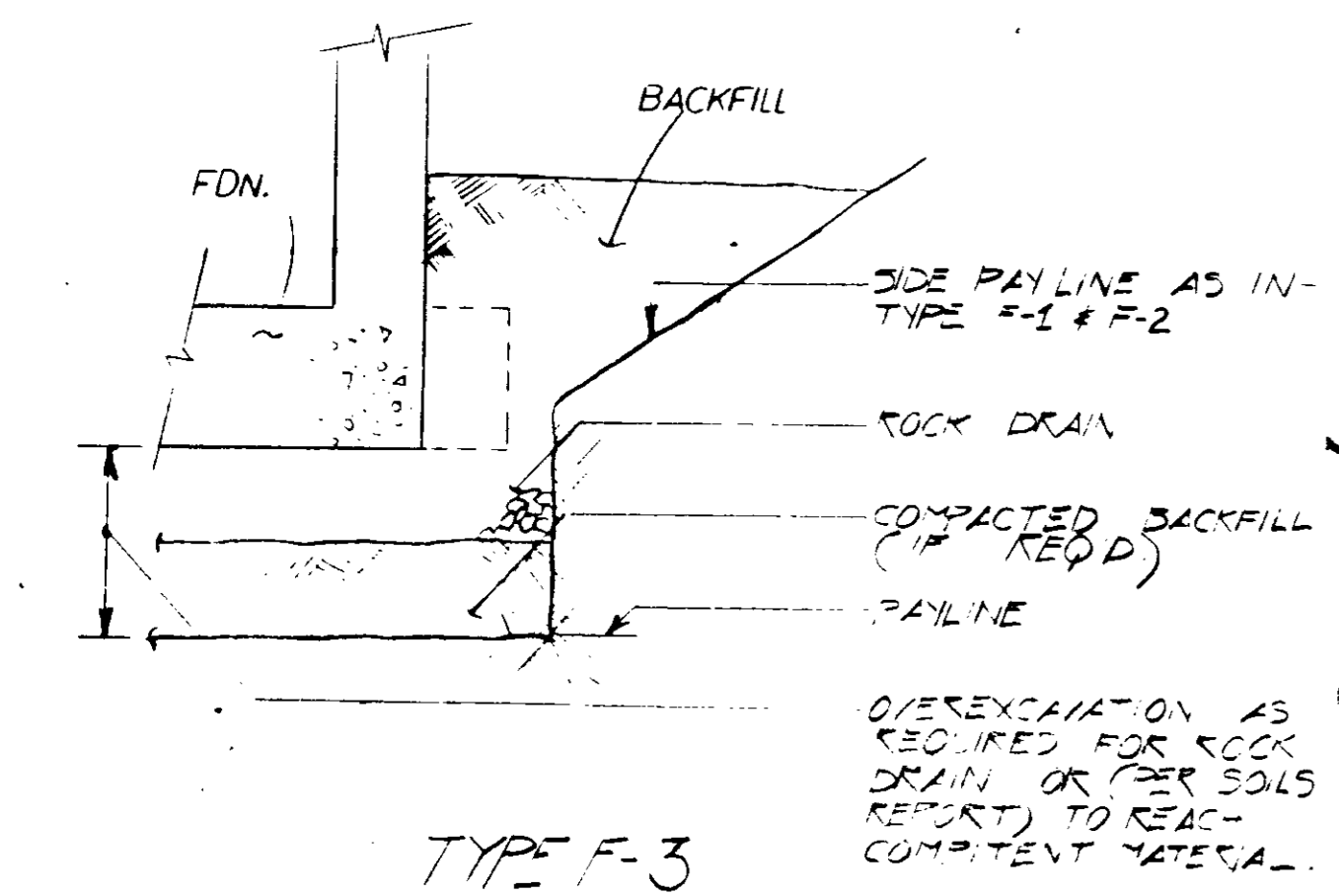
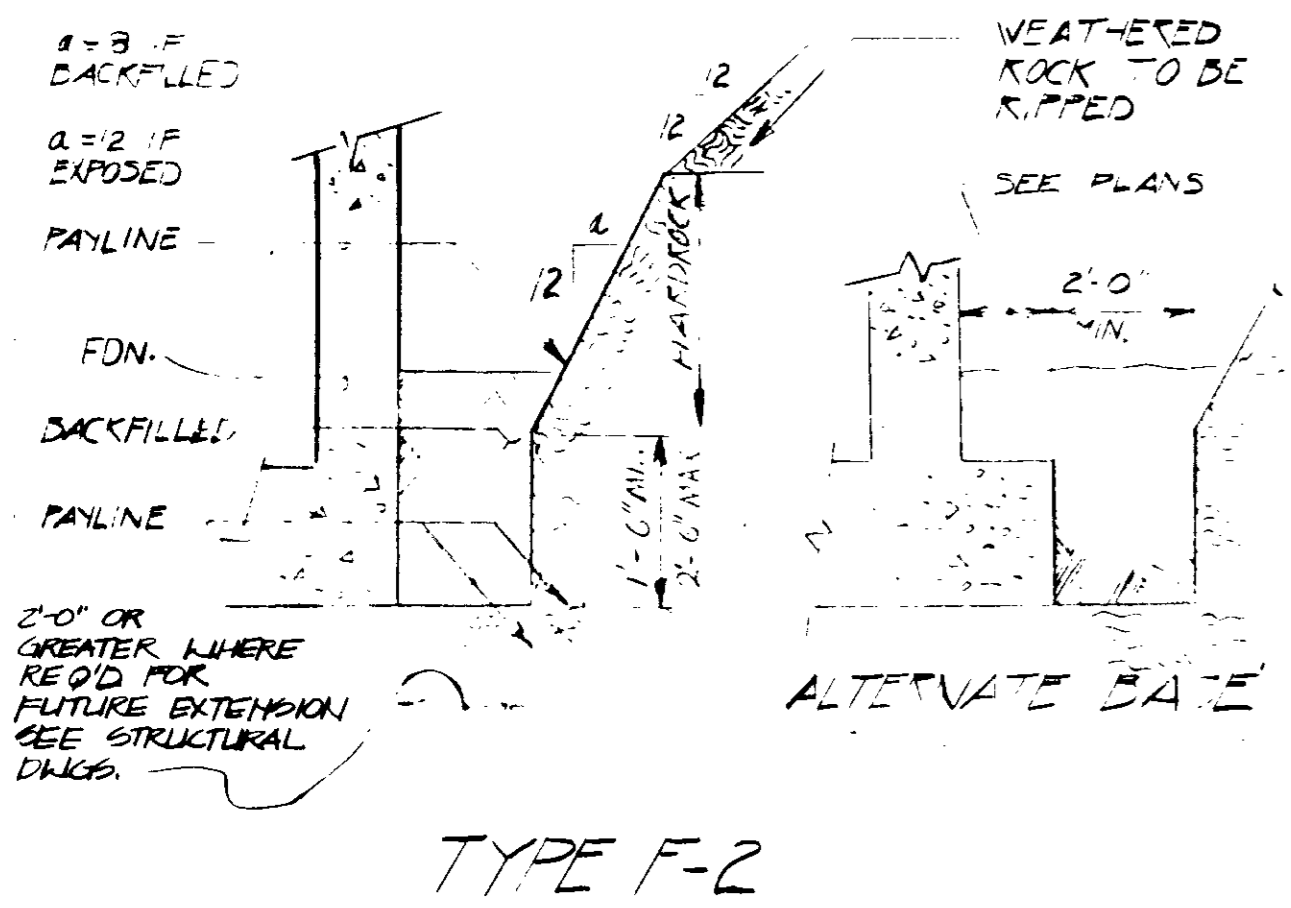
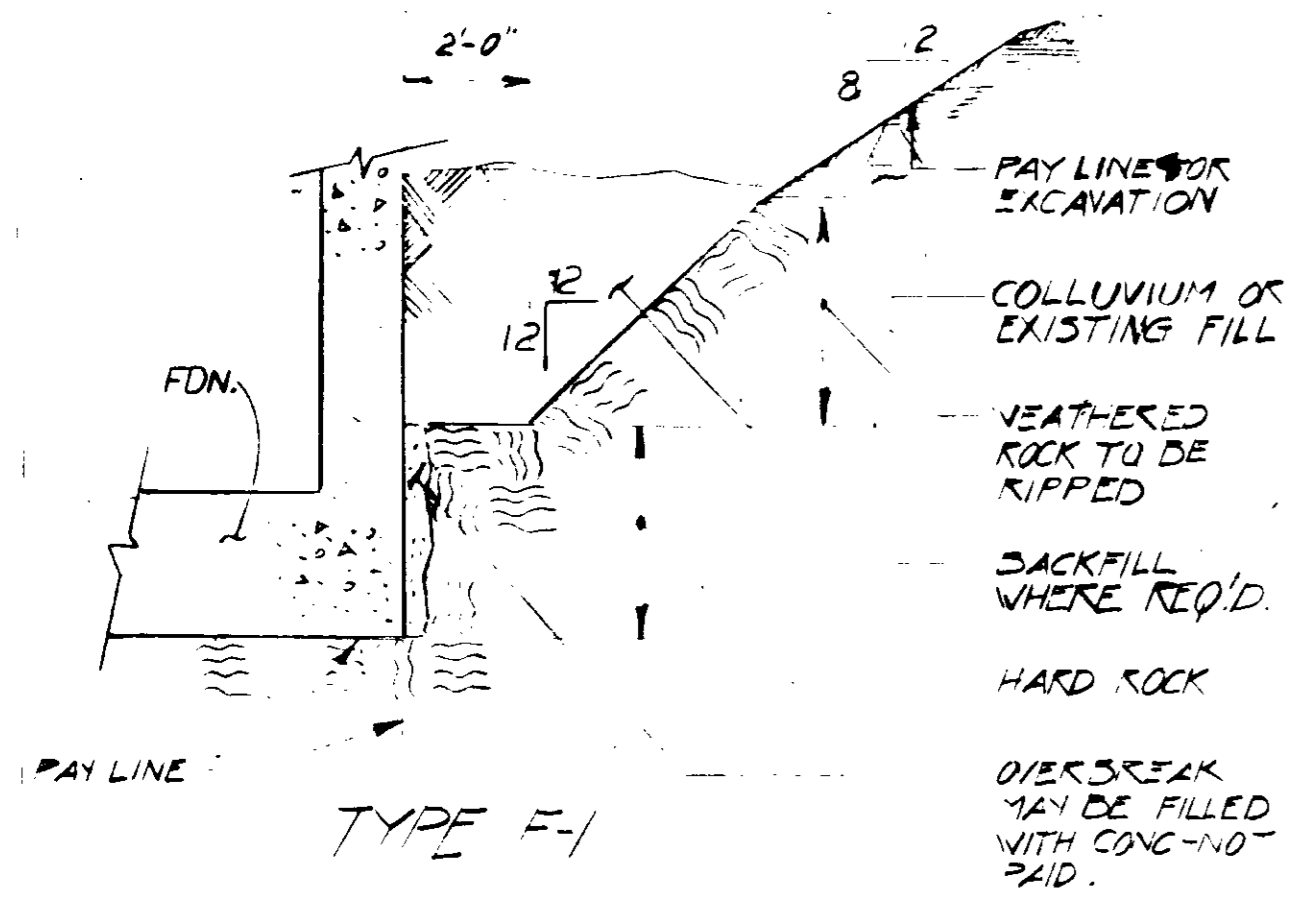
* SPECIAL INSPECTION REQUIRED PER UNIFORM BUILDING CODE SEC. 305

REV	DATE	BY	DESCRIPTION

SCALE: 1/4" = 1'-0"	DESIGNED: J. K. KATSUMA	PROJECT MANAGER: J. K. KATSUMA	14038 11-5-79
	DRAWN: ACC	PROJECT ADMINISTRATOR: J. K. KATSUMA	14894 11-5-79
	CHECKED: ACC		

JKK CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-9117

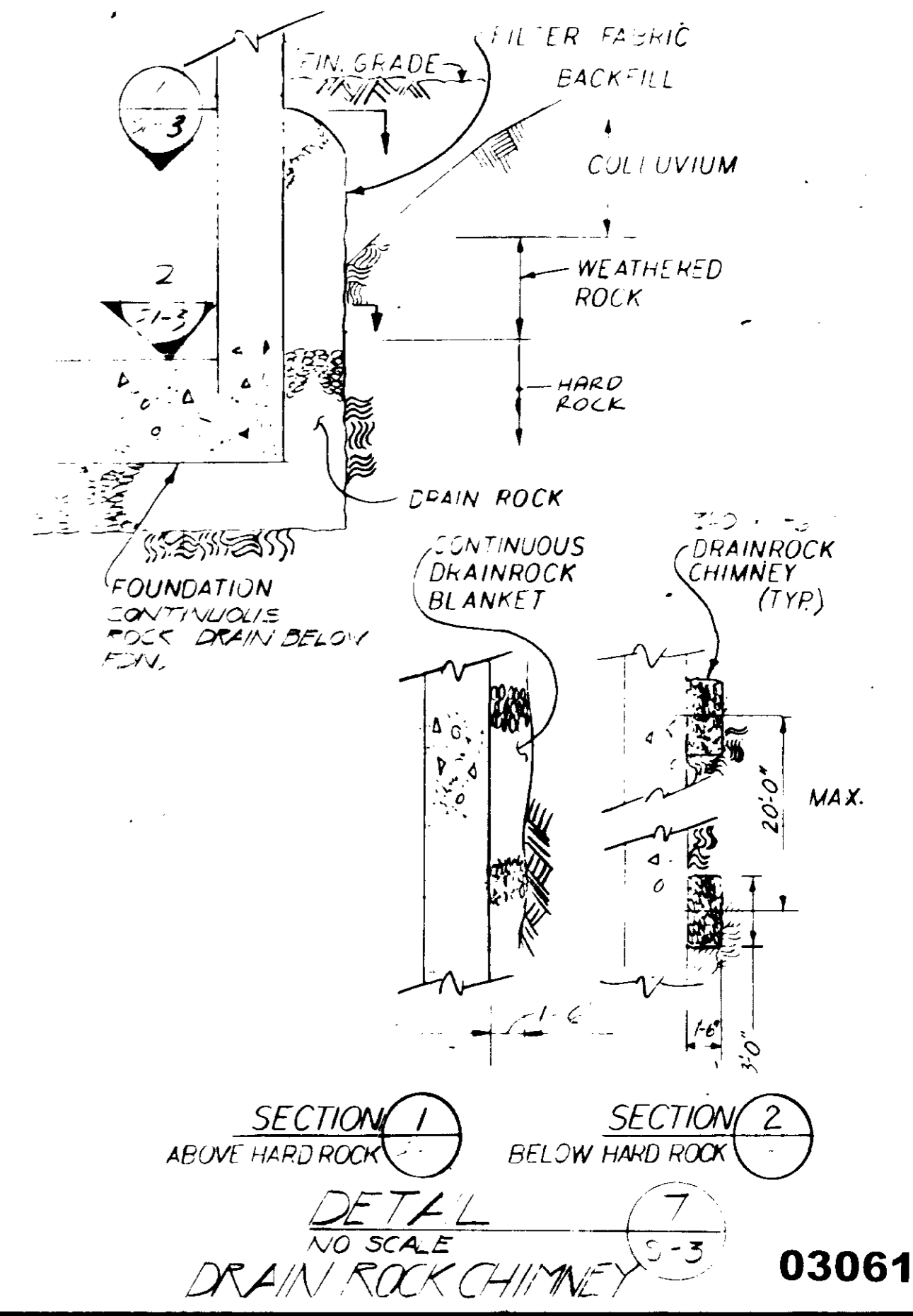
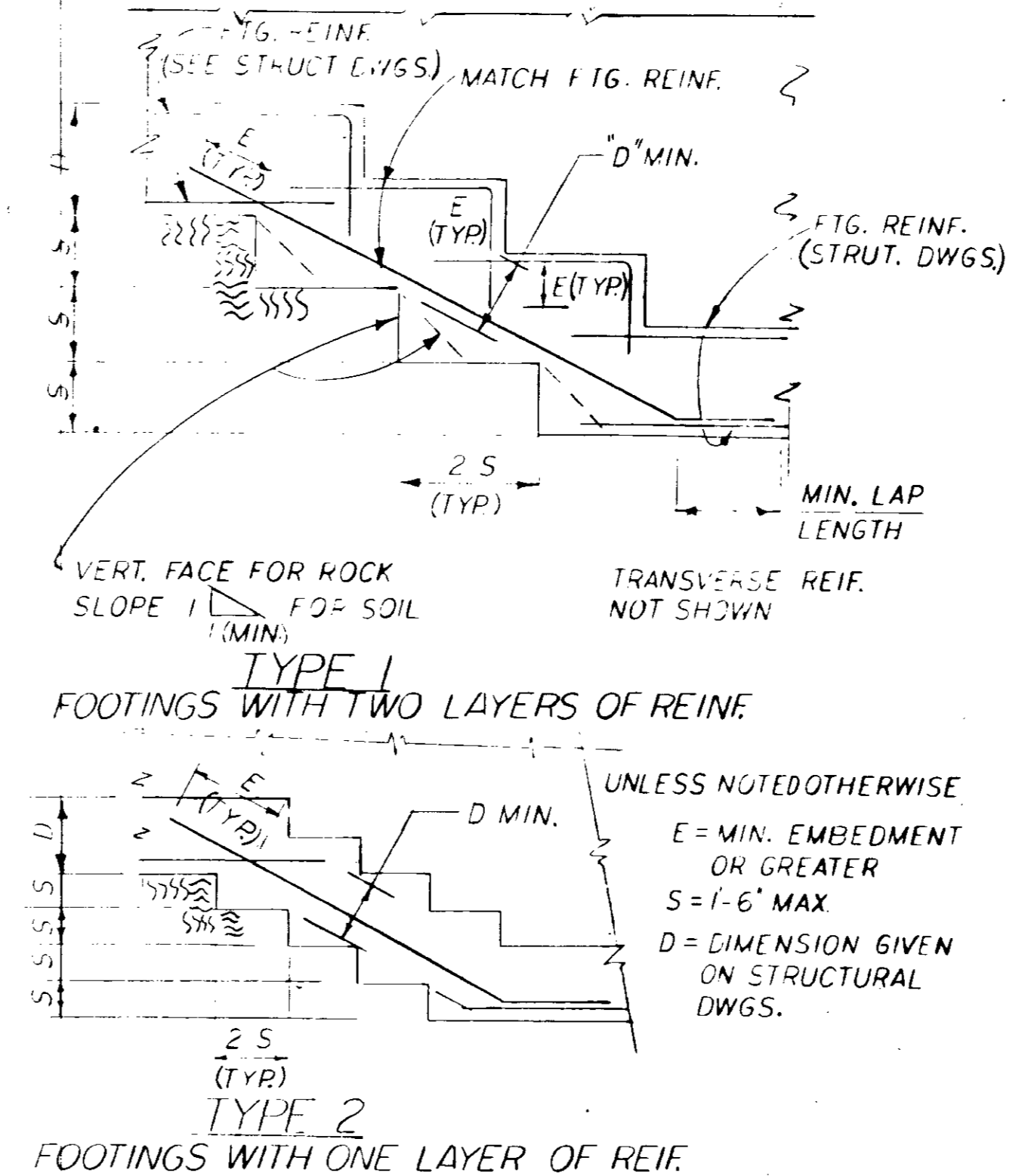
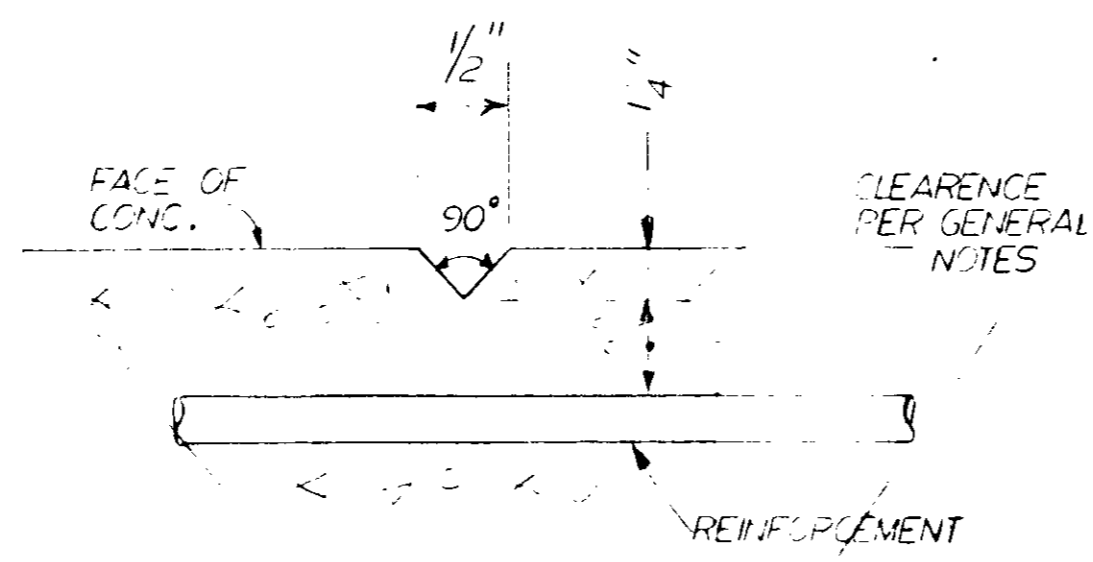
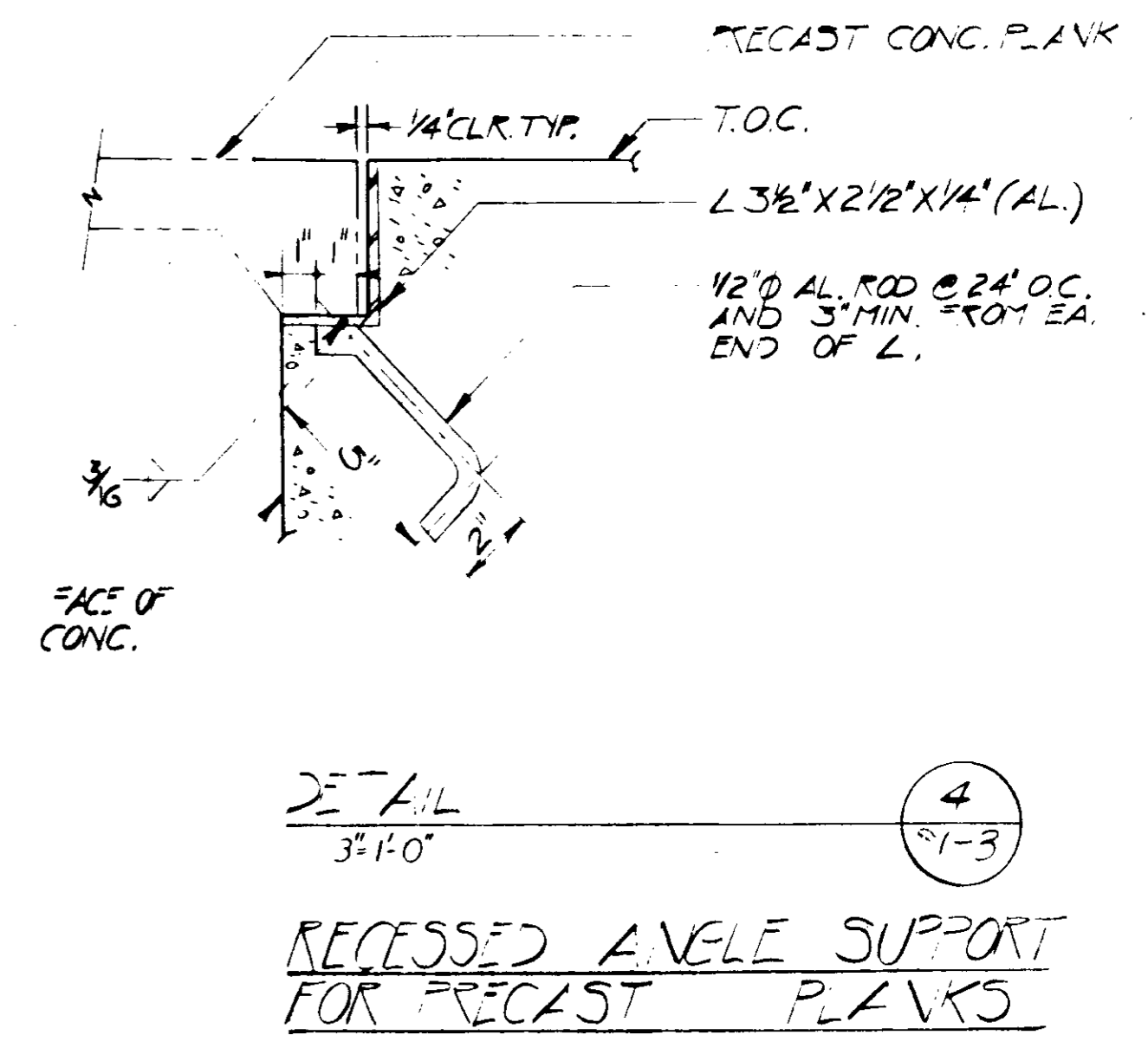
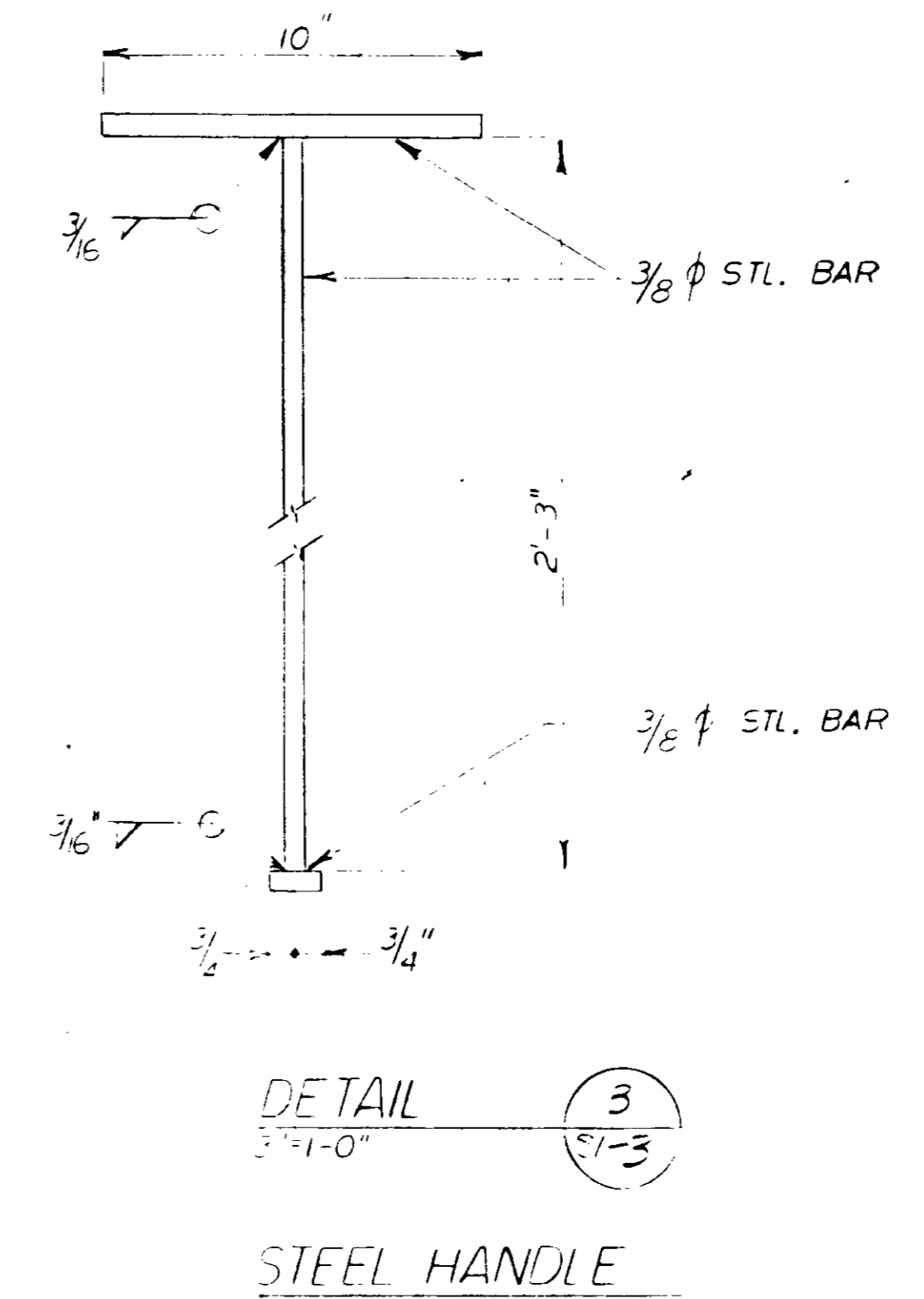
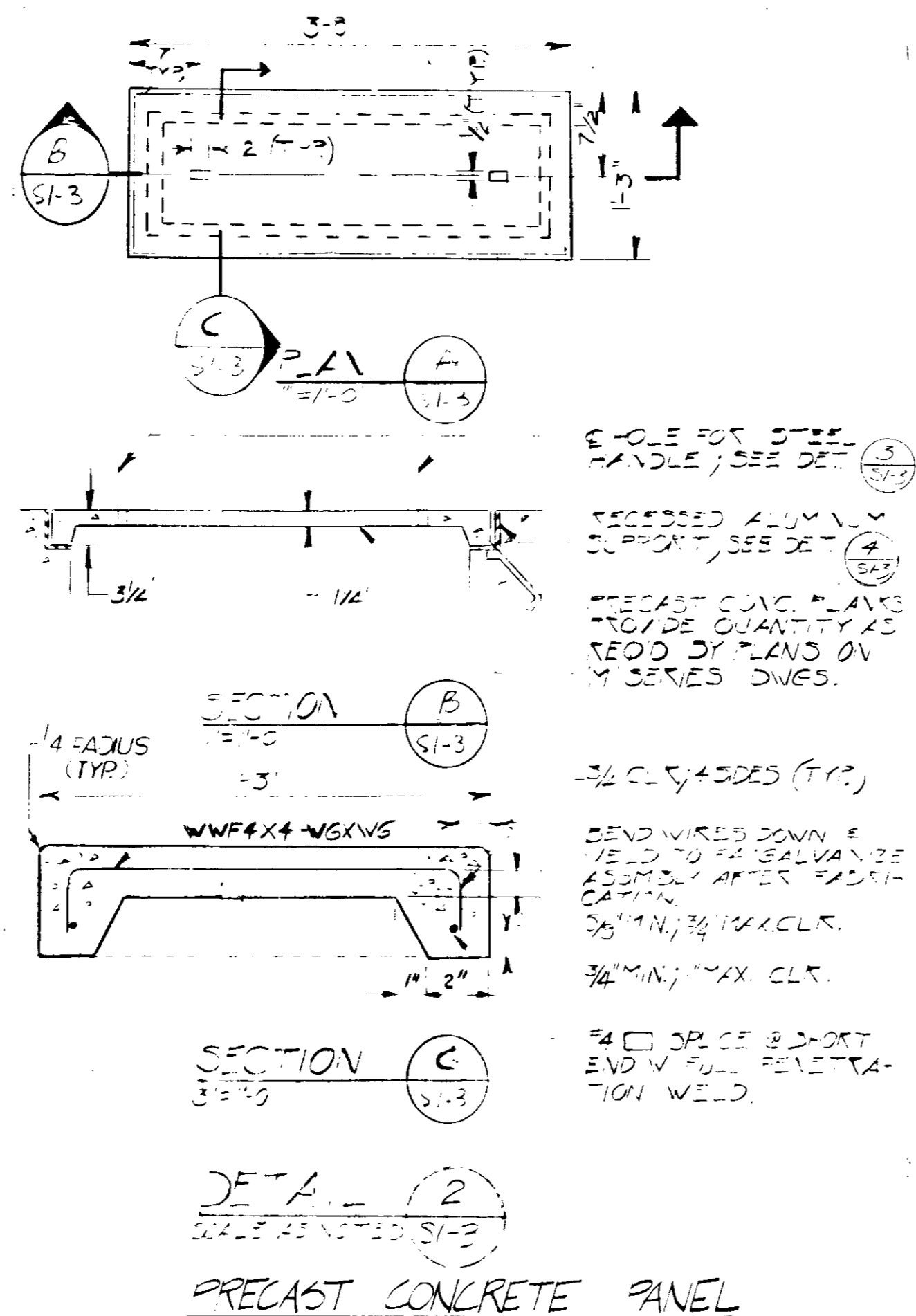
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
TYPICAL STRUCTURAL DETAILS



DETAIL NO SCALE

FOUNDATION EXCAVATION

1 SI-3



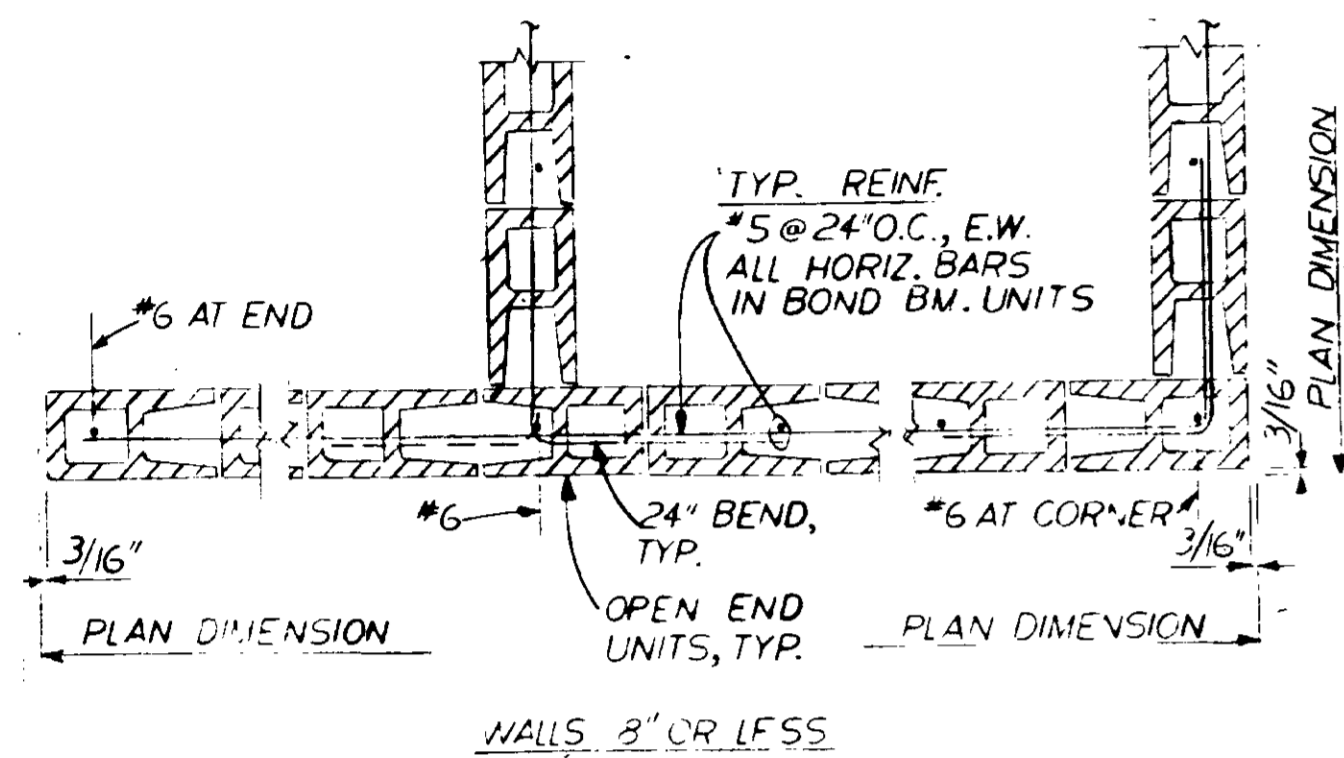
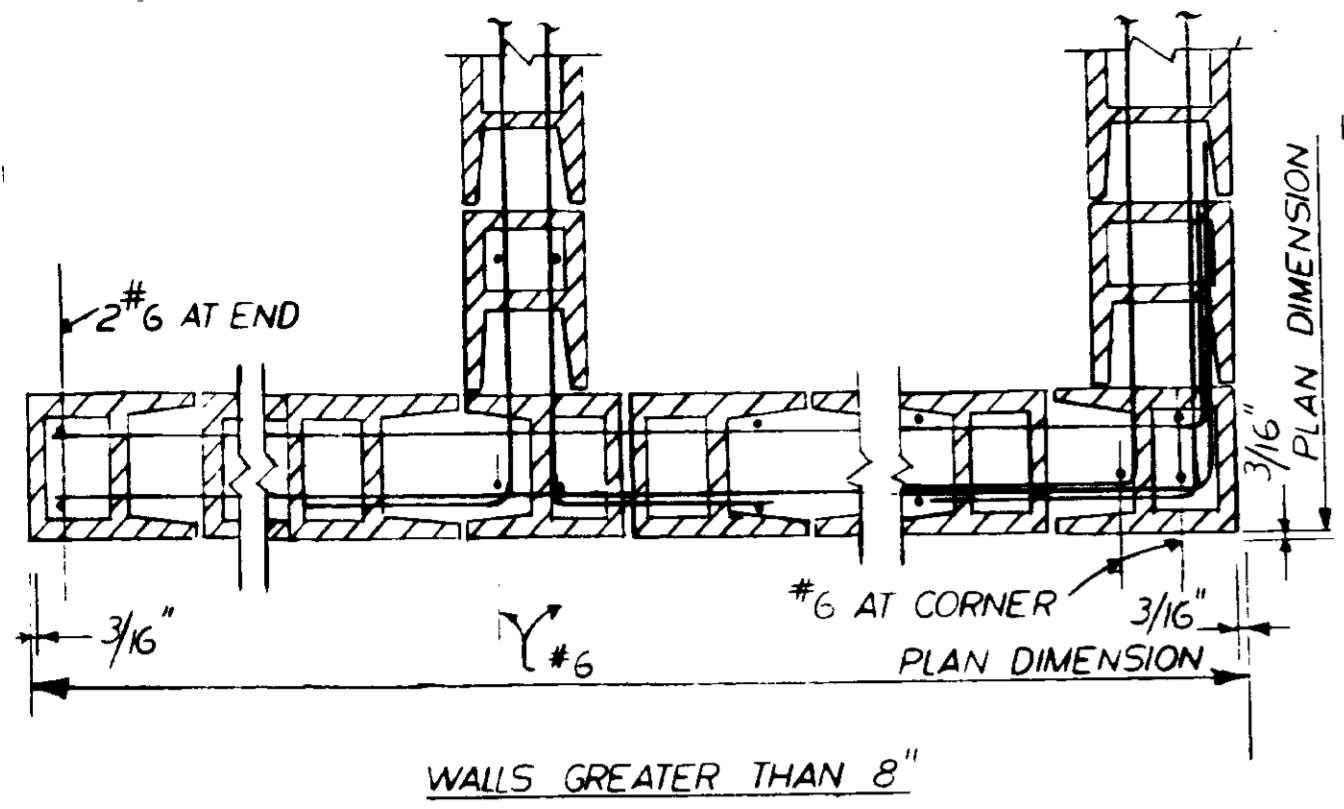
RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

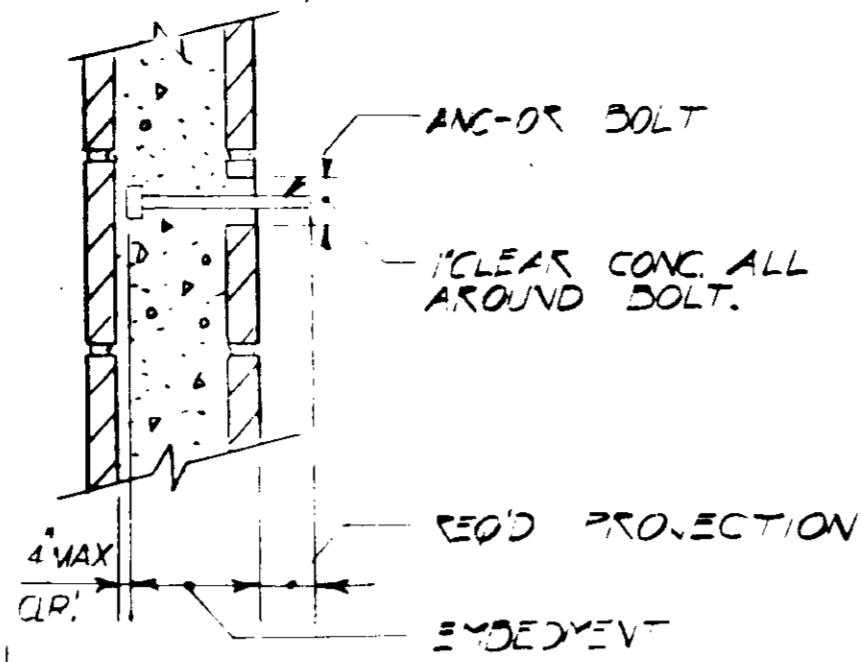
Yuh Katsura RCE 14038

KATSURA CONSULTING ENGINEERS March 1985

SCALE: 1/4" = 1'-0"	DESIGNED: <i>Yuh Katsura</i>	PROJECT MANAGER: <i>Yuh Katsura</i>	14038 11-5-79	CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 833-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.	SHEET S 1-3	
NO SCALE	DRAWN: <i>ACC</i>	PROJECT ADMINISTRATOR: <i>Scott A. ...</i>	14884 11-5-79				
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION



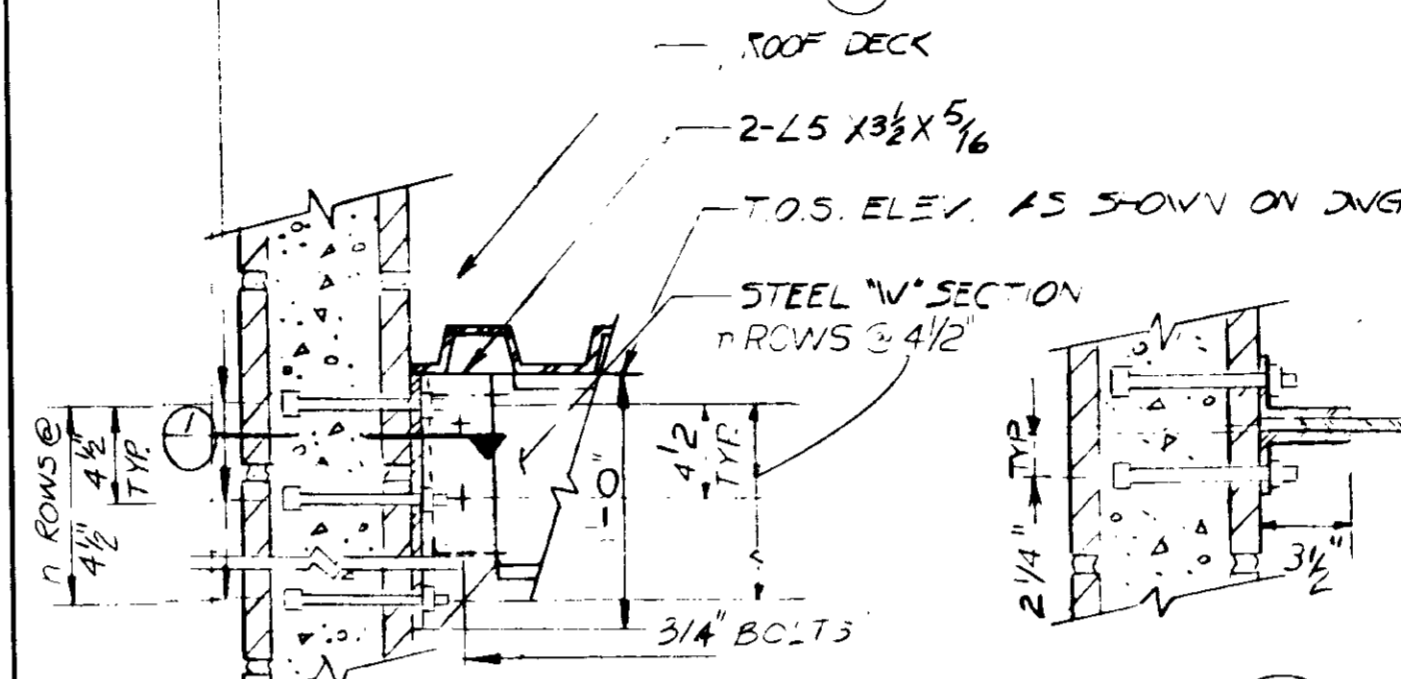
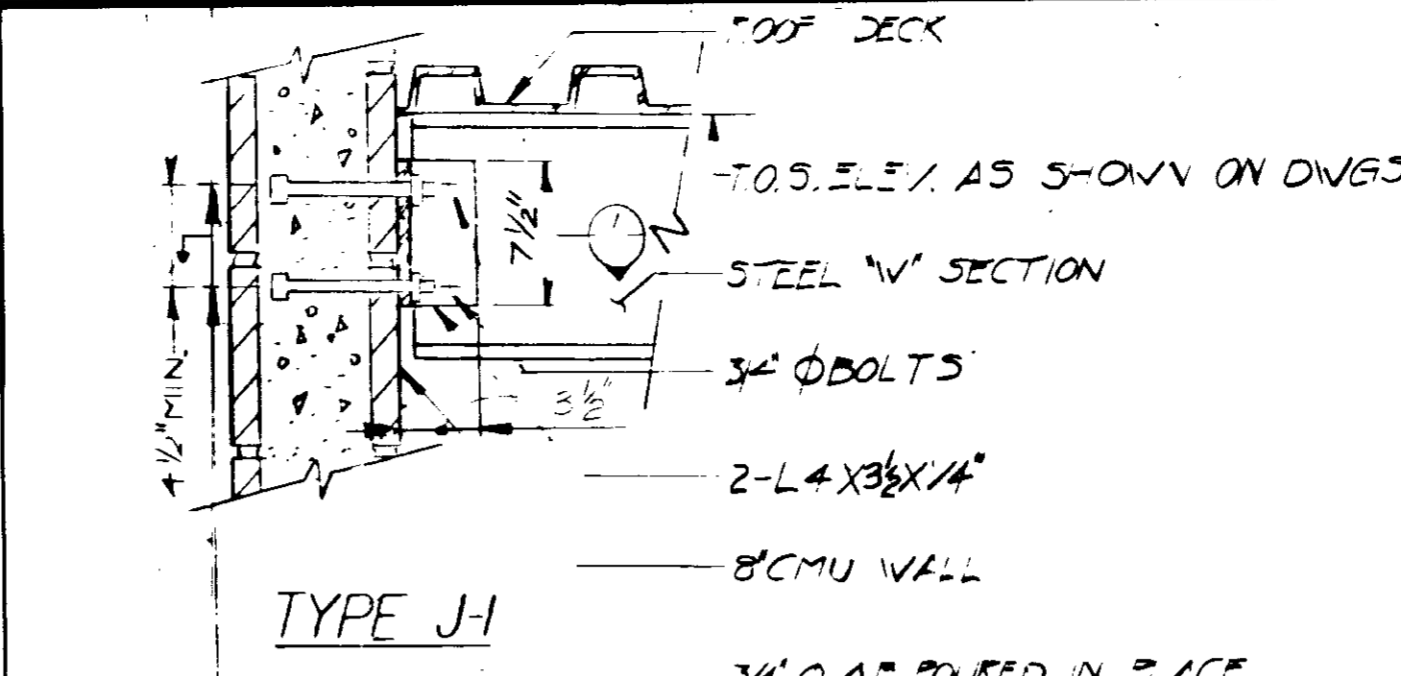
DETAIL
NO SCALE
PLAN VIEW CMU WALLS



BOLT DIA.	MIN. EMBEDMENT
1/2"	4"
5/8"	4"
3/4"	5"
7/8"	6"
1"	7"
1 1/8"	8"

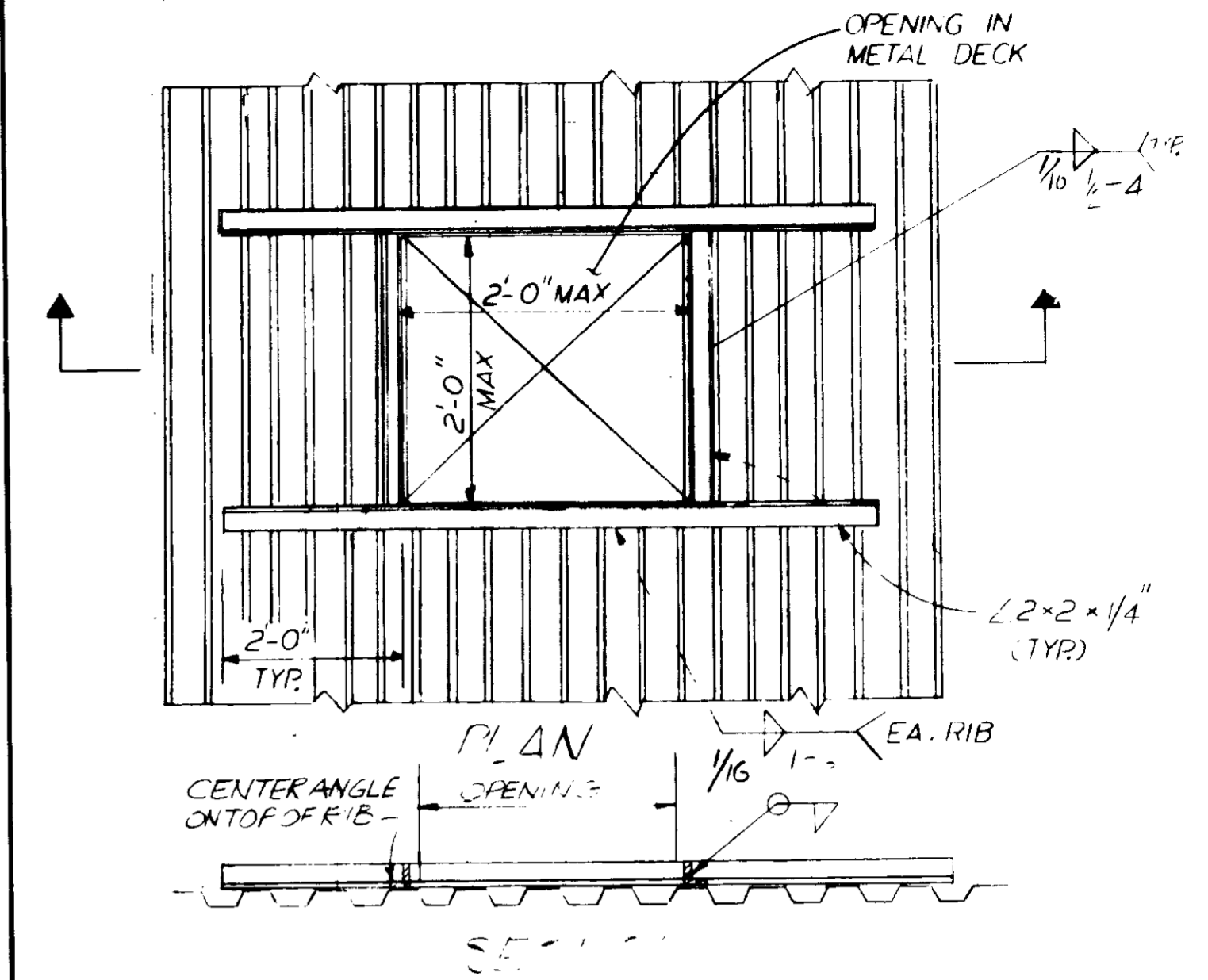
DETAIL
NO SCALE
EMBEDDED ANCHOR BOLT IN MASONRY WALL

NOTE: IF PLACEMENT OF ANCHOR BOLTS AS SHOWN DOES NOT PROVIDE THE REQUIRED MINIMUM EMBEDMENT, NOTIFY THE ENGINEER

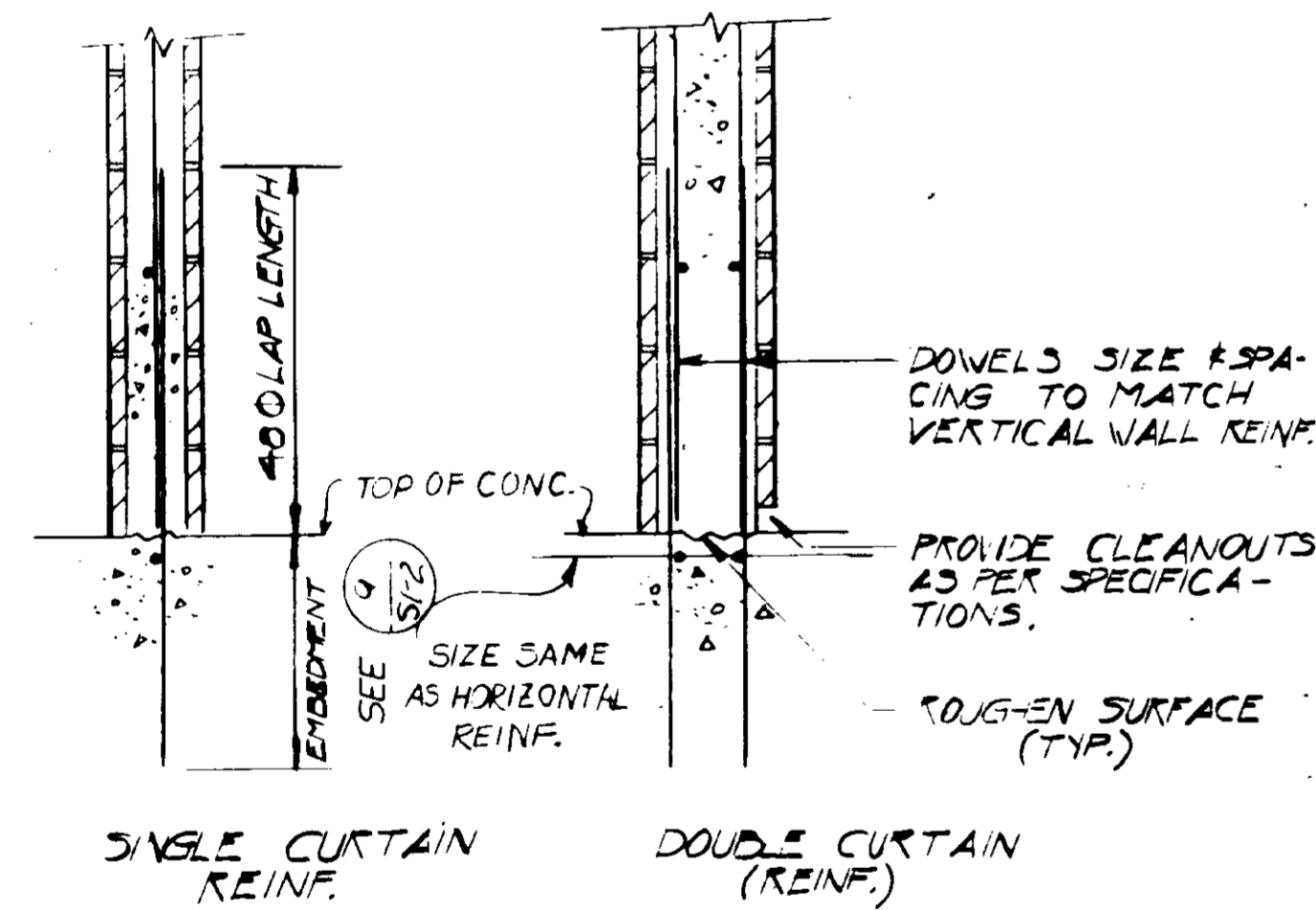


DETAIL
NO SCALE
ROOF JOIST CONNECTIONS

NOTE: CMU WALL GROUTED SOLID REINF. NOT SHOWN.

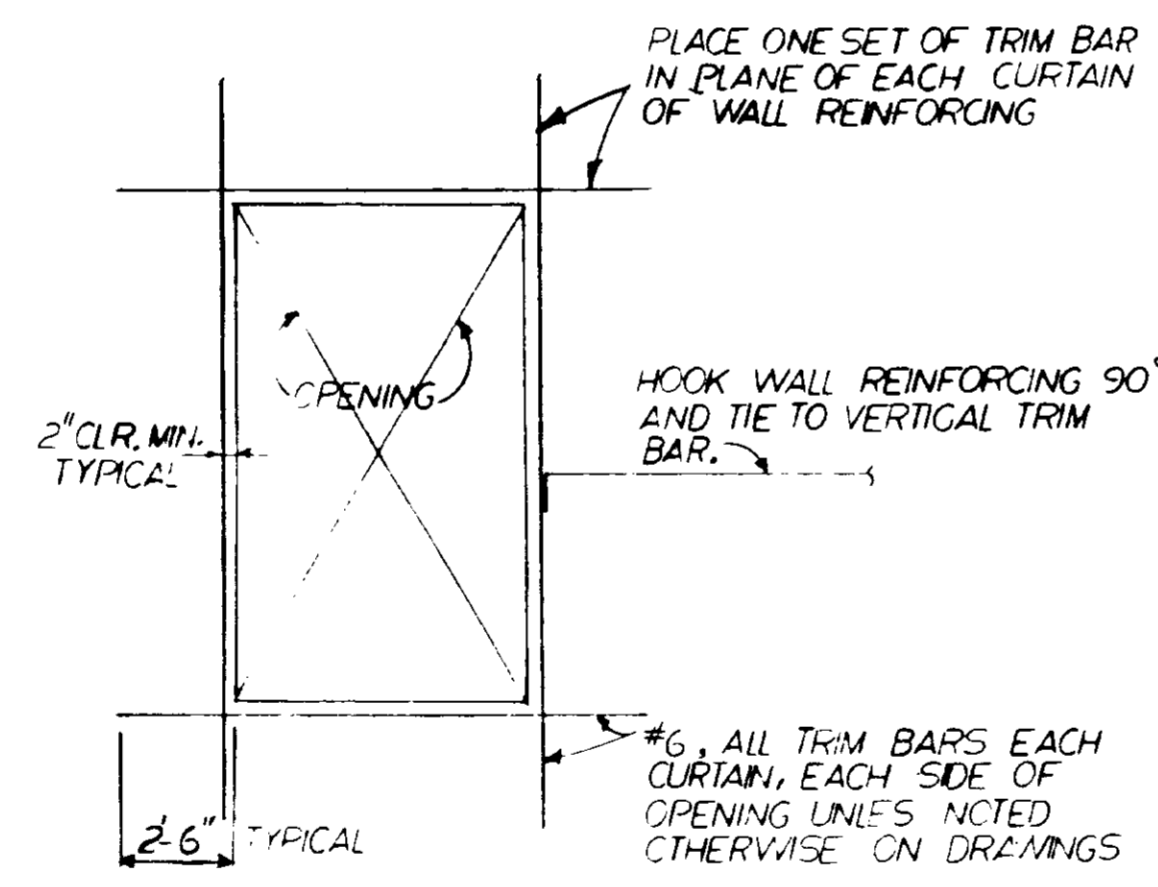


DETAIL
NO SCALE
TYPICAL METAL DECK OPENING

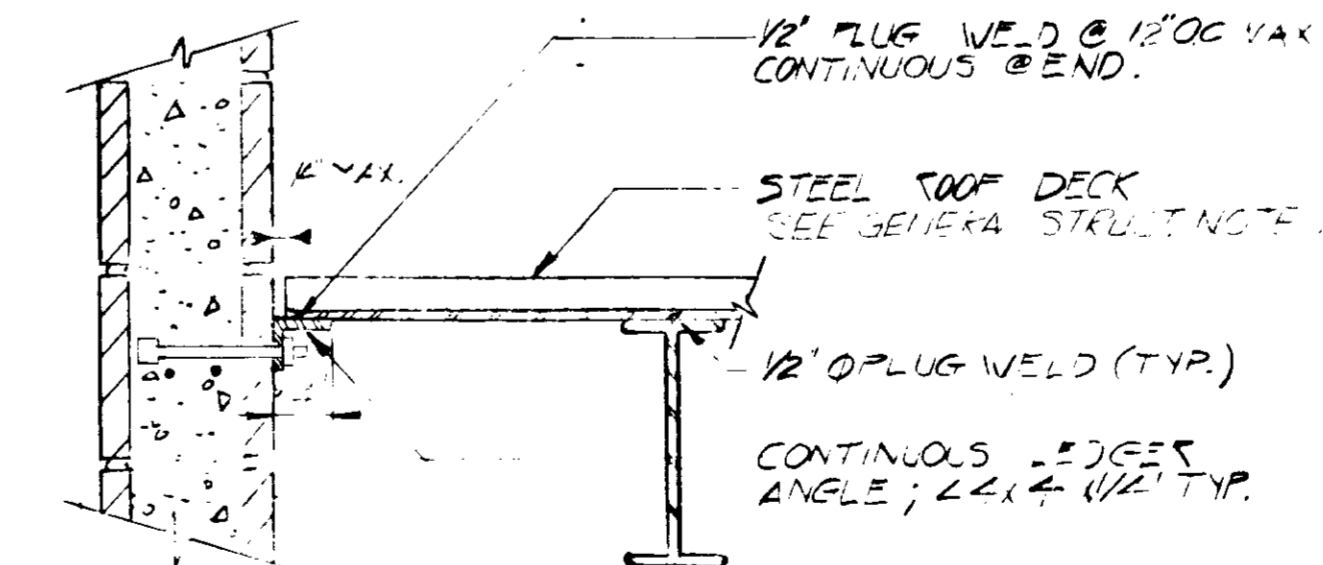
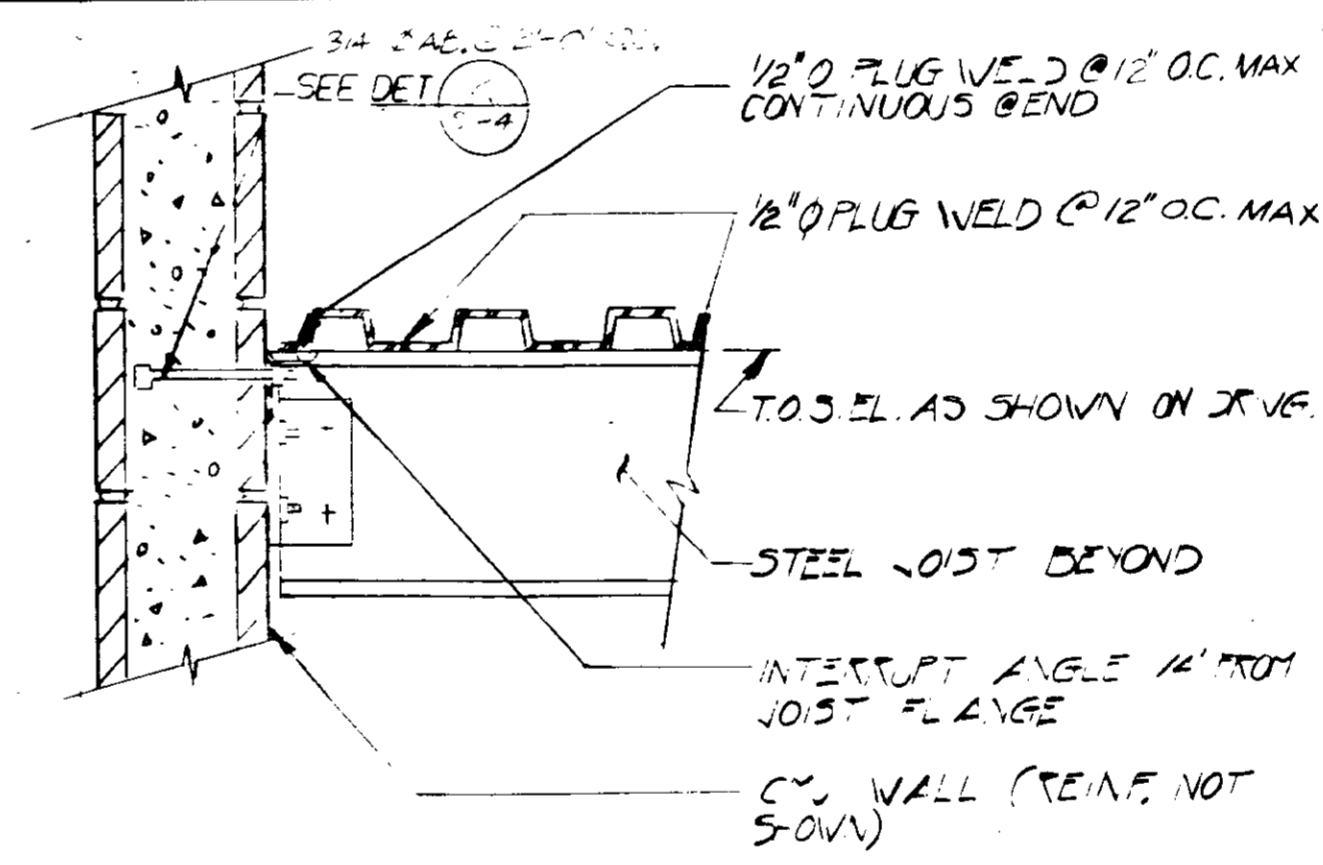


DETAIL
NO SCALE
REINFORCEMENT DOWELS FOR CMU WALLS

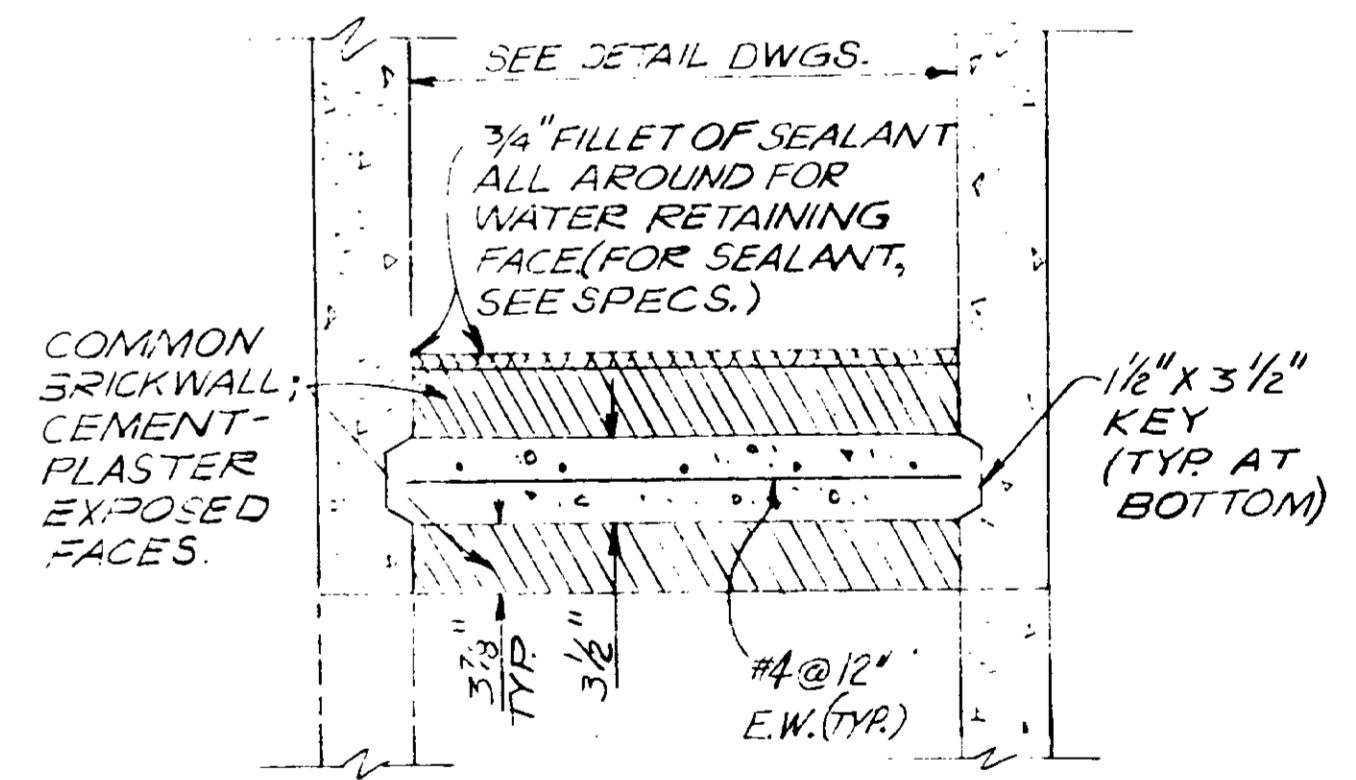
NOTE: VERTICAL REINFORCEMENT SHALL BE ANCHORED IN PLACE TO PREVENT MOVEMENT DURING PLACING OF CONCRETE.



DETAIL
NO SCALE
REINFORCING AT OPENINGS IN CMU WALL



DETAIL
NO SCALE
ROOF DECK CONNECTION



DETAIL
NO SCALE
TEMPORARY CLOSURE WALL

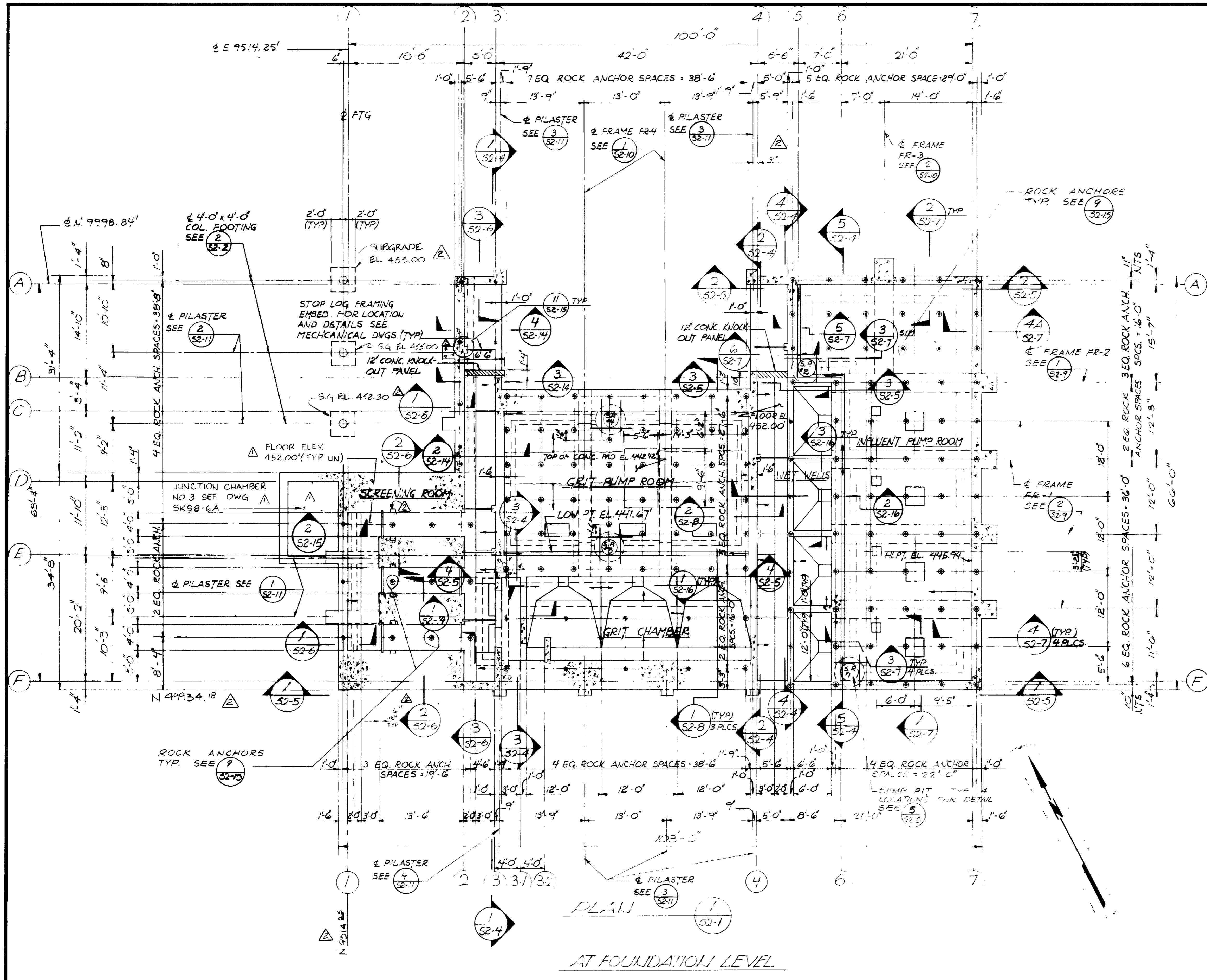
RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yupik Katsura
KATSURA CONSULTING ENGINEERS RCE 14038 March 1985 03062

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE: 1/4" = 1'-0"	DESIGNED: A. ZAUBER 3/9/79	DRAWN: ACC	CHECKED: ACC
SUBMITTED BY: <i>Yupik Katsura</i>	14038 11-5-79	PROJECT MANAGER: R.C.E. NO.	DATE
PROJECT ADMINISTRATOR: <i>Yupik Katsura</i>	14804 11-5-79	R.C.E. NO.	DATE

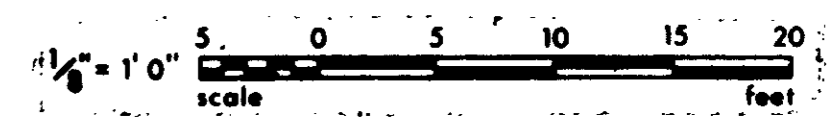
JKC CONSULTING ENGINEERS
A JOINT VENTURE
6601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
TYPICAL STRUCTURAL DETAILS
SHEET SI-4



- HEADWORK STRUCTURE NOTES: (S2 SERIES)**
- FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS SEE SERIES S1 DRAWINGS.
 - ROCK ANCHORS SHALL BE EMBEDDED A MINIMUM OF 10'-0" INTO SOLID BED ROCK AND SHALL BE CENTERED ON DRILL HOLE. SEE DETAIL 9.
 - ROCK ANCHORS SHALL BE WELDABLE GRADE 40 DEFORMED BARS. SEE SPECIFICATIONS.
 - FOR NON-SHRINK GROUT AND TESTING REQUIREMENTS OF ROCK ANCHORS SEE SPECIFICATIONS.
 - SEE WALL ELEVATIONS SH S2-4 AND S2-5 FOR CLARIFICATIONS OF DIFFERENT LEVELS OF THIS PLAN.
 - ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
 - FOR LOCATION AND DIMENSIONS OF OPENINGS, EMBEDDED OR ATTACHED ITEMS, REFER TO MECHANICAL, ELECTRICAL INSTRUMENTATION AND MISCELLANEOUS METAL DRAWINGS.
 - SYMBOL "⊙" INDICATES LOCATION OF ROCK ANCHOR.
 - SYMBOL "▽" DESIGNATES DOWNWARD SLOPE OF FINISHED CONCRETE SURFACE.
 - DESIGNATION "S.P." REFERS TO SUMP PIT. FOR SUMP DETAILS SEE SUMP SCHEDULE ON SHEET S2-5.
 - TRIM BARS AROUND FLOOR SUMP PITS SHALL BE 2"-#5 TOP AND BOTTOM.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alpar
Yoshida
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

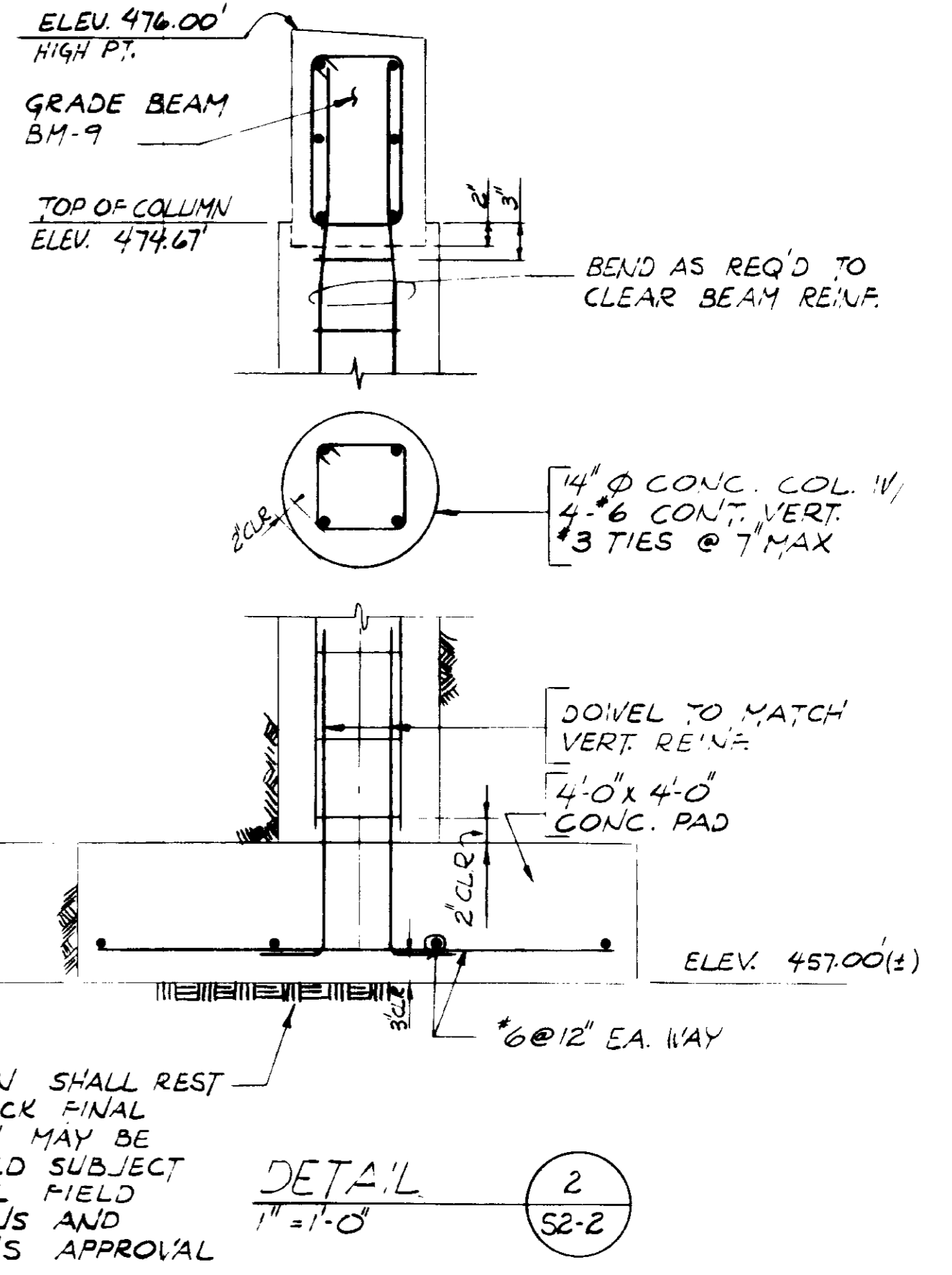
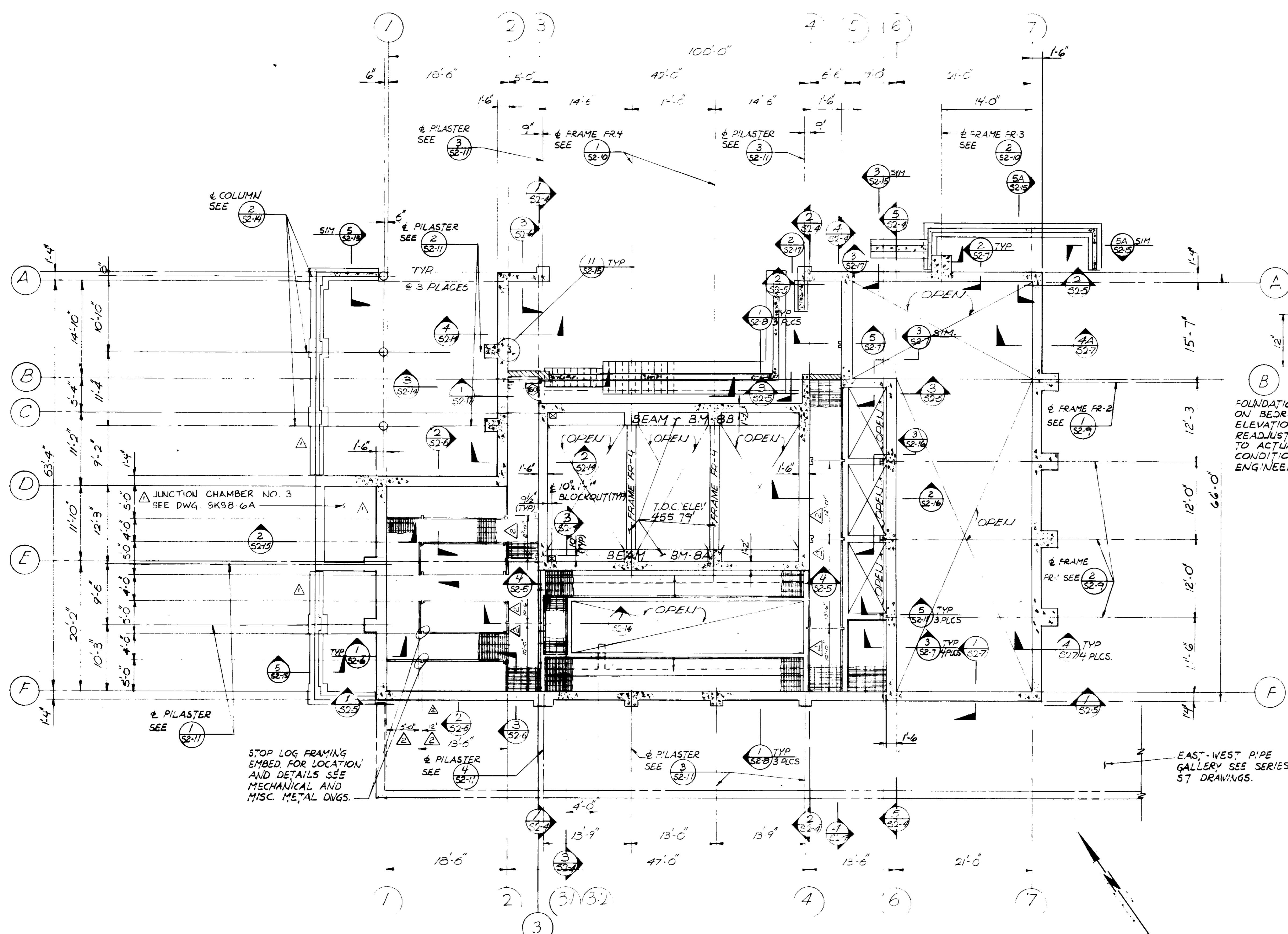


GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

PLAN
 AT FOUNDATION LEVEL

03063 PCH-C5-15

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>23-24</td> <td>11-21-80</td> <td>R.L.</td> <td>COASTAL COMM. REV. PART 1</td> </tr> <tr> <td>23-24</td> <td></td> <td>C.L.</td> <td>REV. PER MZA & JCE</td> </tr> </table>	REV	DATE	BY	DESCRIPTION	23-24	11-21-80	R.L.	COASTAL COMM. REV. PART 1	23-24		C.L.	REV. PER MZA & JCE	SCALE: 1/8" = 1'-0" DESIGNED: R. LEE DRAWN: K. RAHIMAN CHECKED: K. RAHIMAN	SUBMITTED: <i>Yoshida</i> PROJECT MANAGER: <i>Yoshida</i> PROJECT ADMINISTRATOR: <i>Yoshida</i> 14038 R.C.E. NO. 8/15/79 DATE	 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS FOUNDATION PLAN	SHEET S2-1
REV	DATE	BY	DESCRIPTION														
23-24	11-21-80	R.L.	COASTAL COMM. REV. PART 1														
23-24		C.L.	REV. PER MZA & JCE														

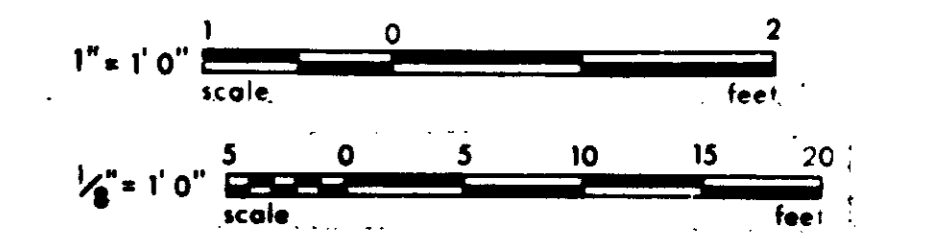


FOUNDATION SHALL REST ON BEDROCK FINAL ELEVATION MAY BE READJUSTED SUBJECT TO ACTUAL FIELD CONDITIONS AND ENGINEER'S APPROVAL

DETAIL 2
1" = 1'-0" S2-2

- NOTES:**
- FOR NOTES SEE SHEET S2-1.
 - GRATING SHOWN IS FOR REF ONLY SEE MECHANICAL DRAWINGS AND MISC. METAL DRAWINGS FOR GRATING SUPPORT DETAILS.
 - DESIGNATION "B.M." REFERS TO CONCRETE BEAM SCHEDULE ON SHEET S2-12.

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Yuh Katsura RCE 14038
KATSURA CONSULTING ENGINEERS March 1985



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

PLAN 1
1/8" = 1'-0" S2-2
ELEVATION @ 460.50
(UNLESS NOTED OTHERWISE)

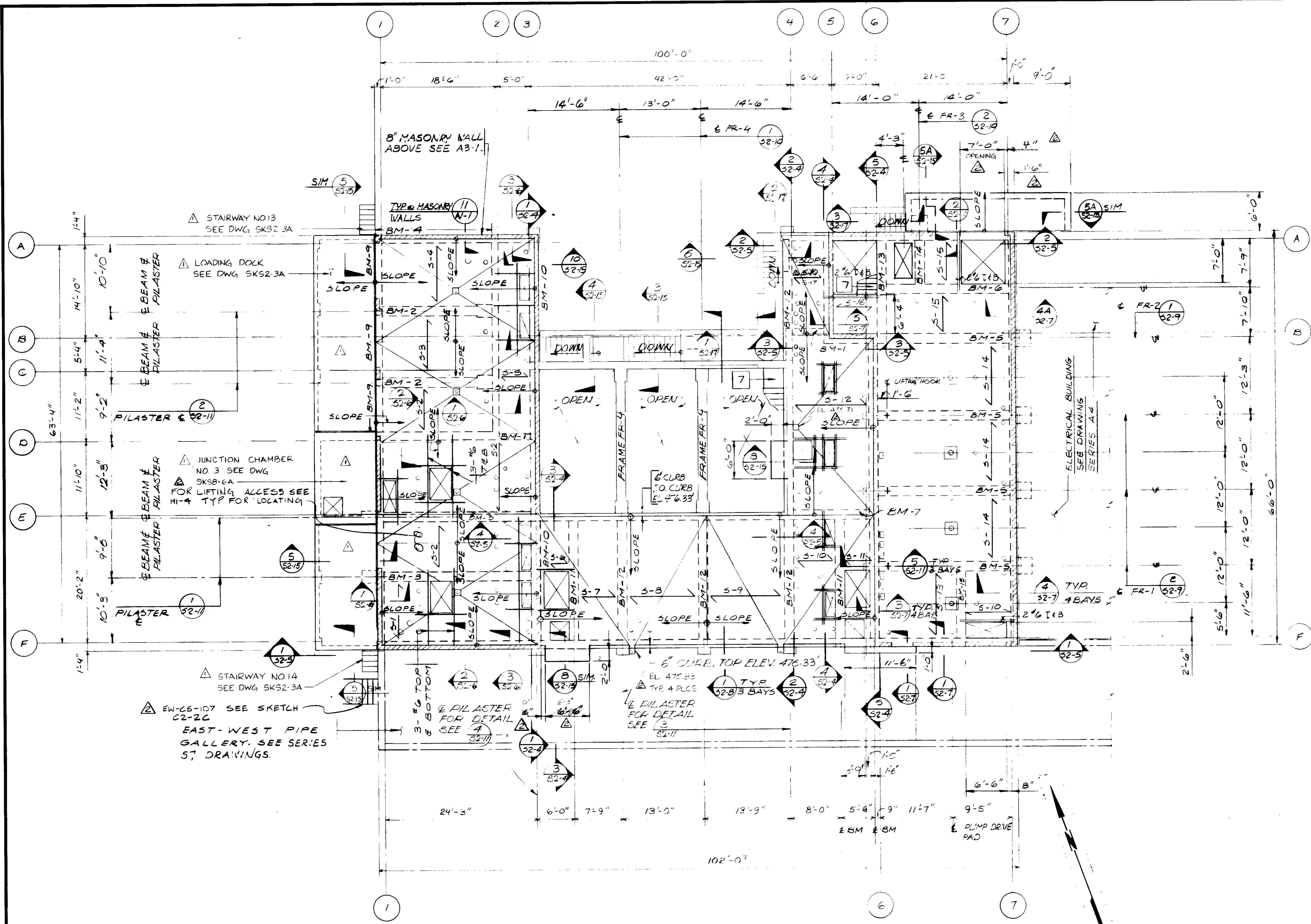
REV	DATE	BY	DESCRIPTION
1	8-30-84	CL	REV PER MZA & JCE
2	11-21-85	RL	COASTAL COMM REV PART 1

SCALE: AS NOTED	DESIGNED: R. LEE	SUBMITTER: <i>Yuh Katsura</i>	14038	8/15/79
	DESIGNED: J. SINGH	PROJECT MANAGER: <i>Yuh Katsura</i>	R.C.E. NO.	DATE
	DRAWN: K. RAHMAN	PROJECT ADMINISTRATOR: <i>Yuh Katsura</i>	14894	8/15/79
	CHECKED:		R.C.E. NO.	DATE

JKK CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
HEADWORKS
PLAN AT ELEVATION 460.50

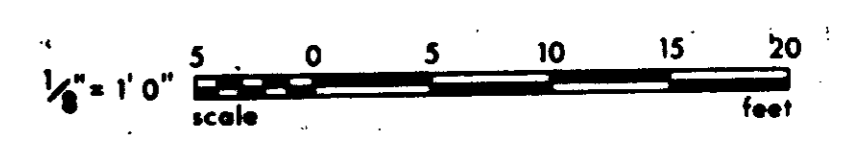
SHEET S2-2



- NOTES:**
1. SEE SHEET 52-1 FOR ADDITIONAL NOTES.
 2. DESIGNATION "S-" REFERS TO CONCRETE SLAB SCHEDULE ON SHEET 52-13.
 3. DESIGNATION "BM-" REFERS TO CONCRETE BEAM SCHEDULE ON SHEET 52-12.
 4. DESIGNATION "FR-" REFERS TO CONCRETE FRAME SECTIONS ON SHEETS 52-9 & 52-10.
 5. DESIGNATION "SLOPE" REFERS TO A DOWNWARD SLOPE UNLESS NOTED OTHERWISE. TOP OF FLOOR DRAIN ELEV. 475.75' TYPICAL.
 6. REINFORCEMENT AROUND SLAB OPENINGS SHALL BE 2-#5 TOP AND BOTTOM @ EA. FACE UNLESS NOTED OTHERWISE.
 7. FOR STAIRWELL FRAMING, SEE SHEETS MM-11 AND MM-12
 8. FOR LOCATION AND SIZE OF ALL FLOOR OPENINGS AND EMBEDS, SEE MECHANICAL DRAWINGS.

PLAN
 1/8" = 1'-0"
 AT ELEVATION 476.00' (HIGH POINTS OF SLAB)

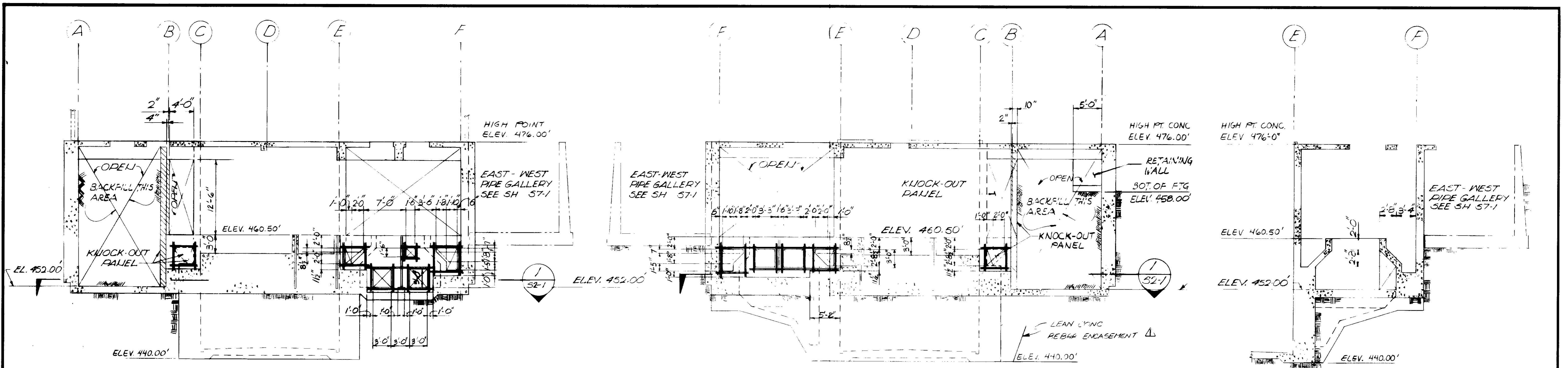
RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03065
 PCH-C5-15

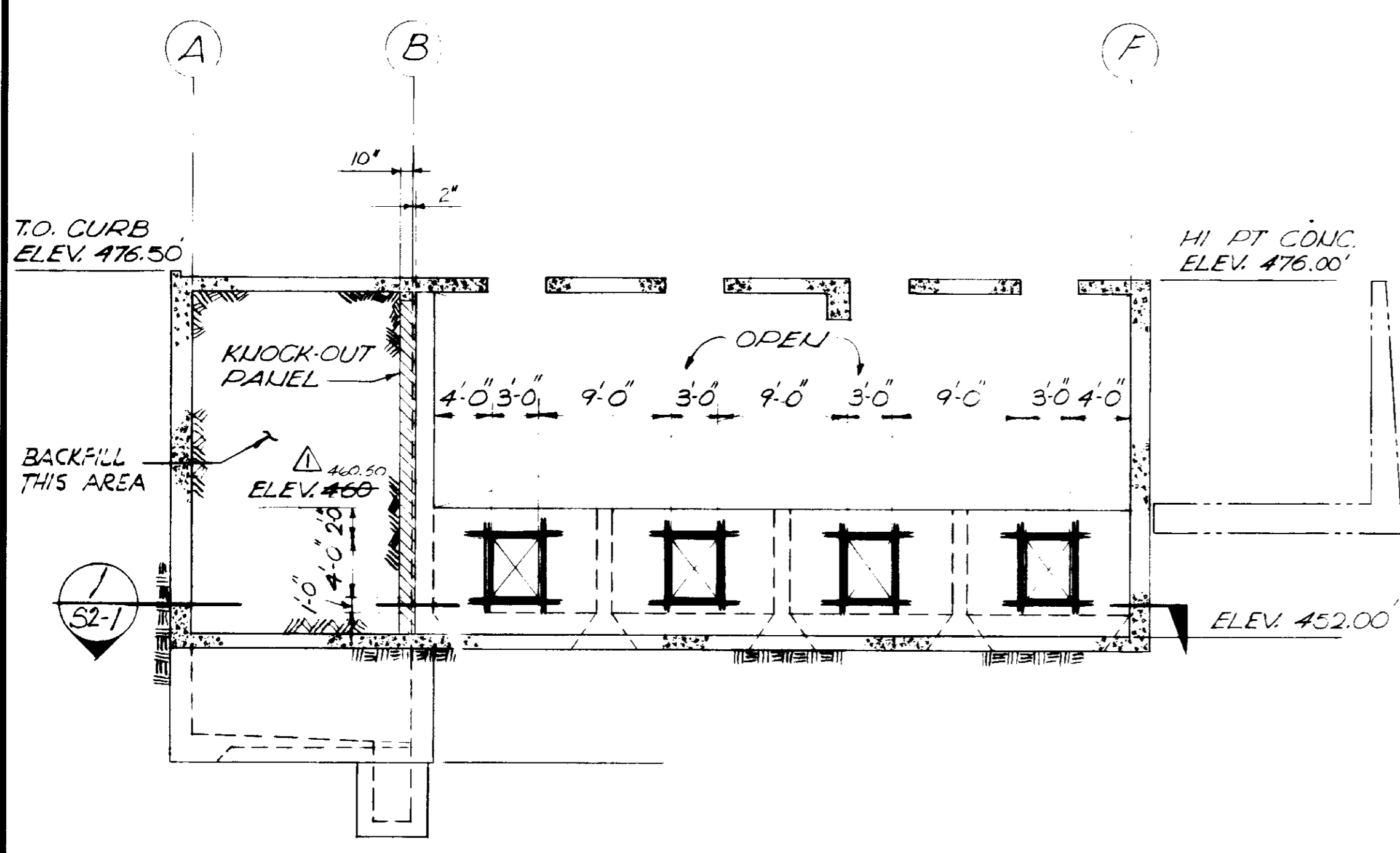
SCALE: 1/8" = 1'-0" DESIGNED: J. G. NICHOLS DRAWN: K. RAJAMAN CHECKED:		SUBMITTED: 14038 8/15/79 PROJECT MANAGER: R.C.E. NO. DATE PROJECT ADMINISTRATOR: 14894 8/15/79 R.C.E. NO. DATE		J&K CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS PLAN AT ELEVATION 476.00		SHEET S2-3
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	



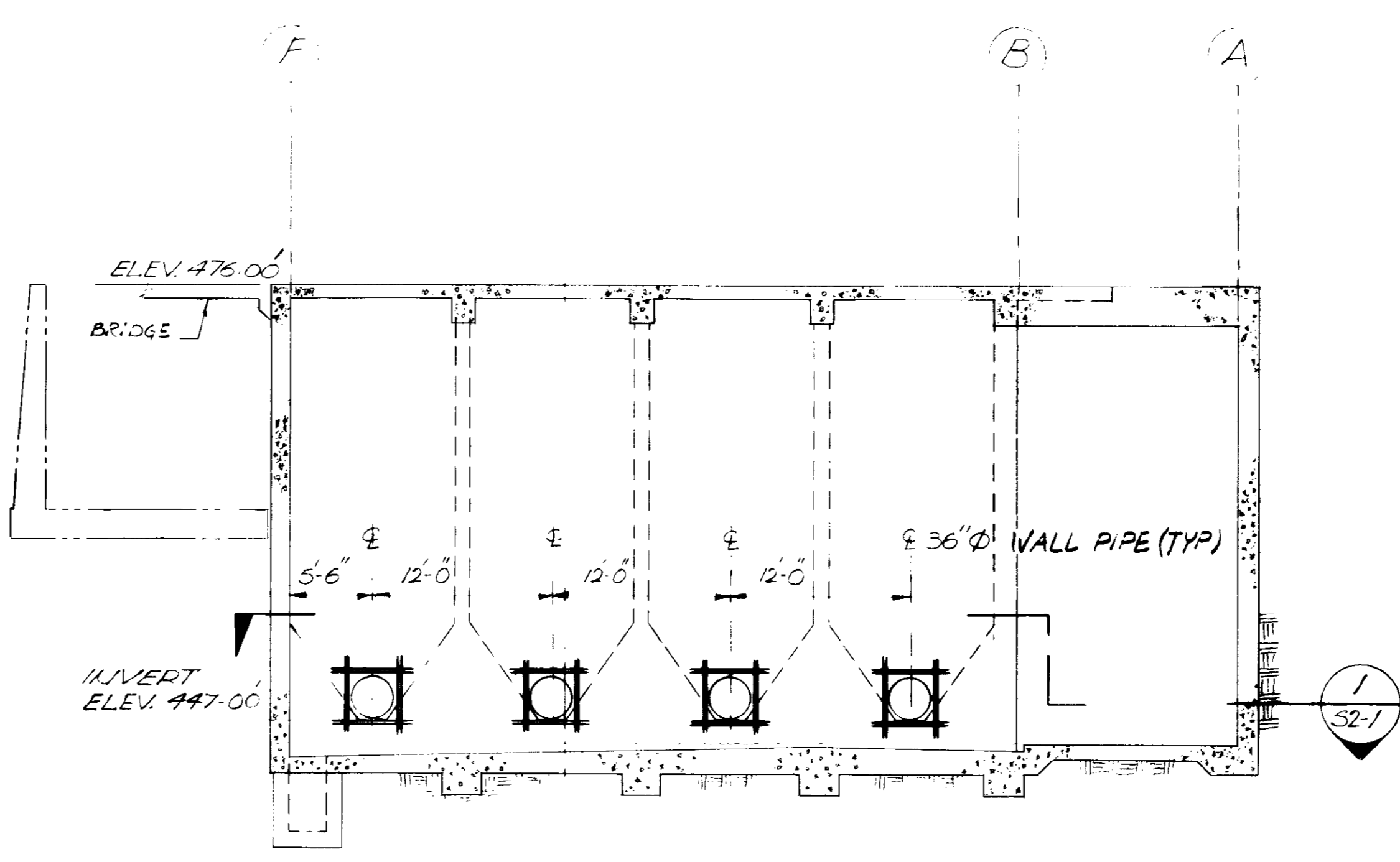
ELEVATION 1
52-4
AT GRID LINE 3

ELEVATION 2
52-4
AT GRID LINE 4

ELEVATION 3
52-4
AT GRID LINE 3



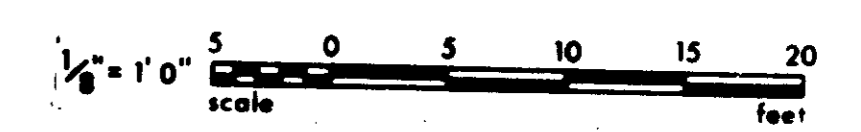
ELEVATION 4
52-4
AT GRID LINE 5



ELEVATION 5
52-4
AT GRID LINE 6

- NOTES:**
1. FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS SEE SHEETS 51-1 THRU 51-3.
 2. REFER TO MECHANICAL DRAWINGS AND/OR APPROVED VENDORS DRAWINGS FOR SIZE AND LOCATION OF ALL HYDROLOGIC GATE SUPPORT AND ANCHOR BOLTS.
 3. UNLESS OTHERWISE NOTED, ALL TRIM BARS AROUND ALL OPENINGS SHALL BE 2 #5 EACH FACE.

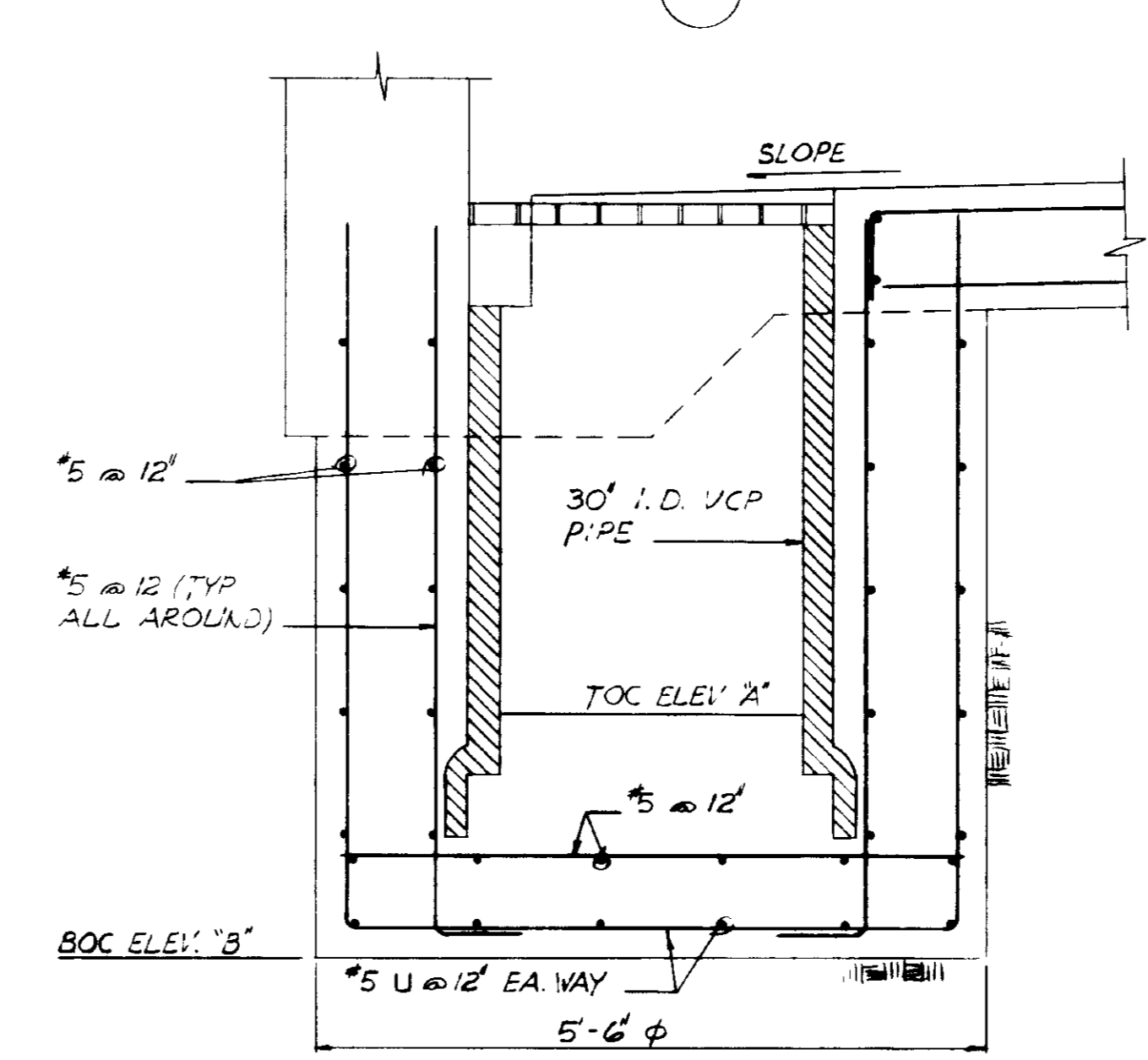
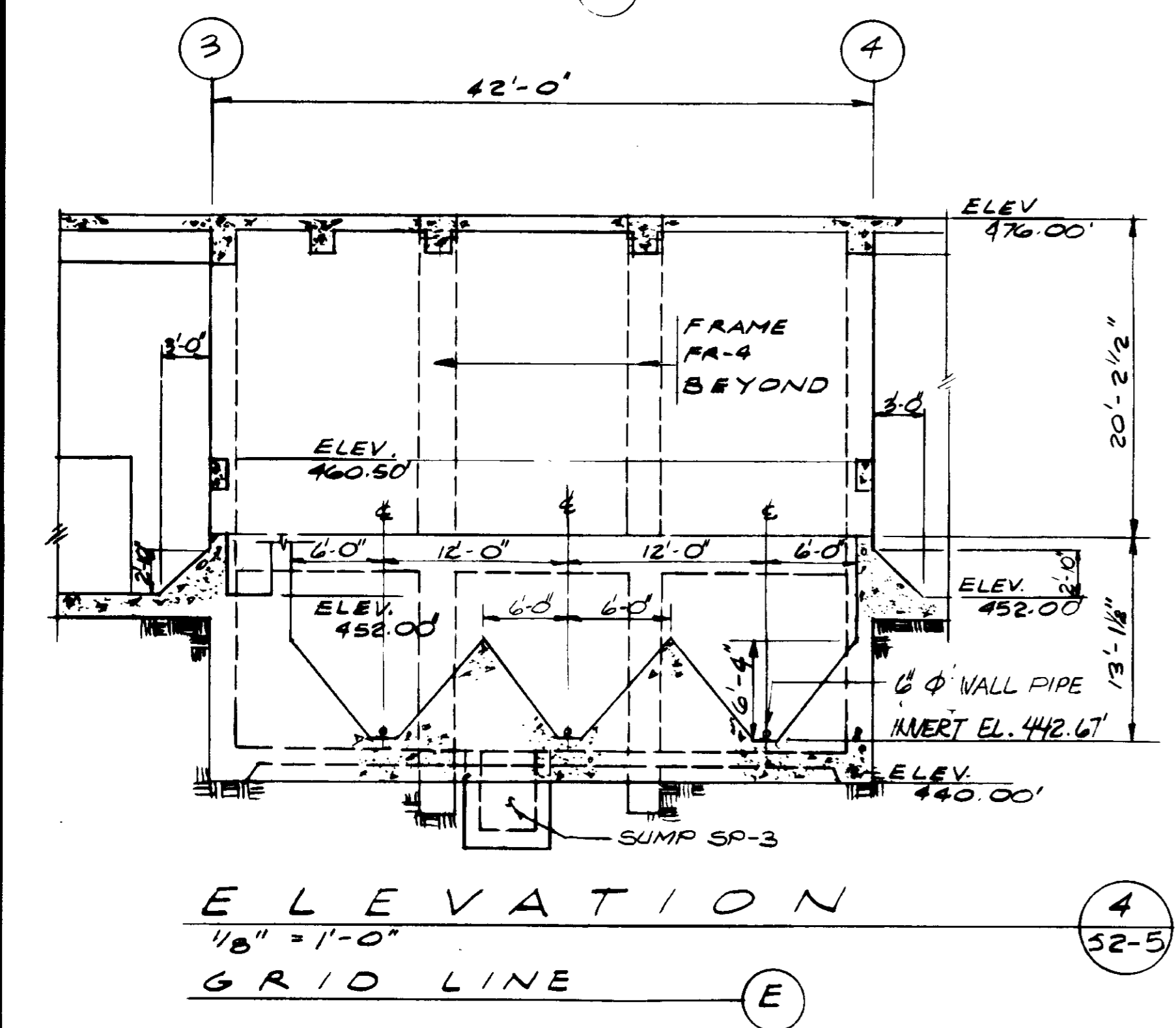
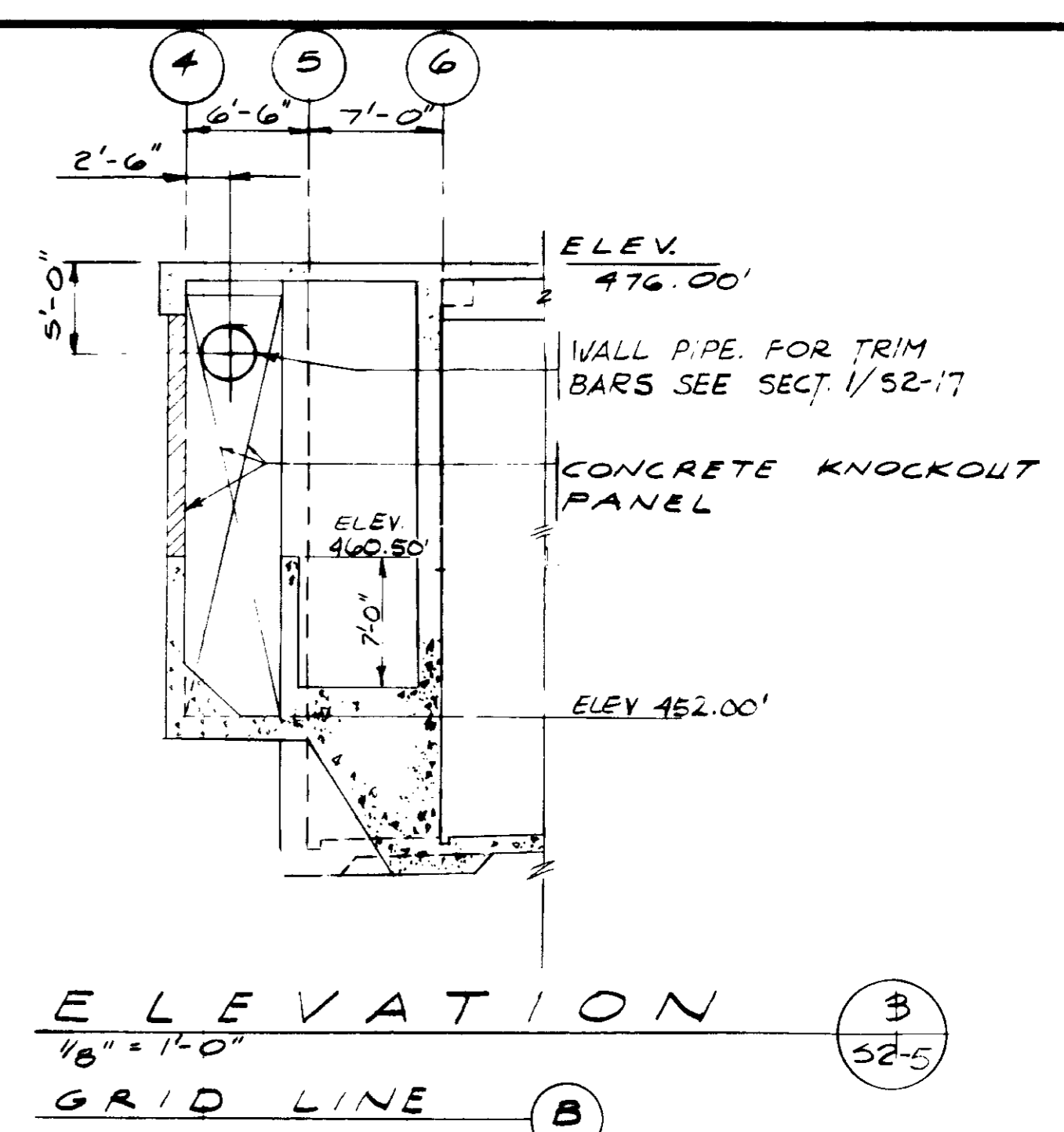
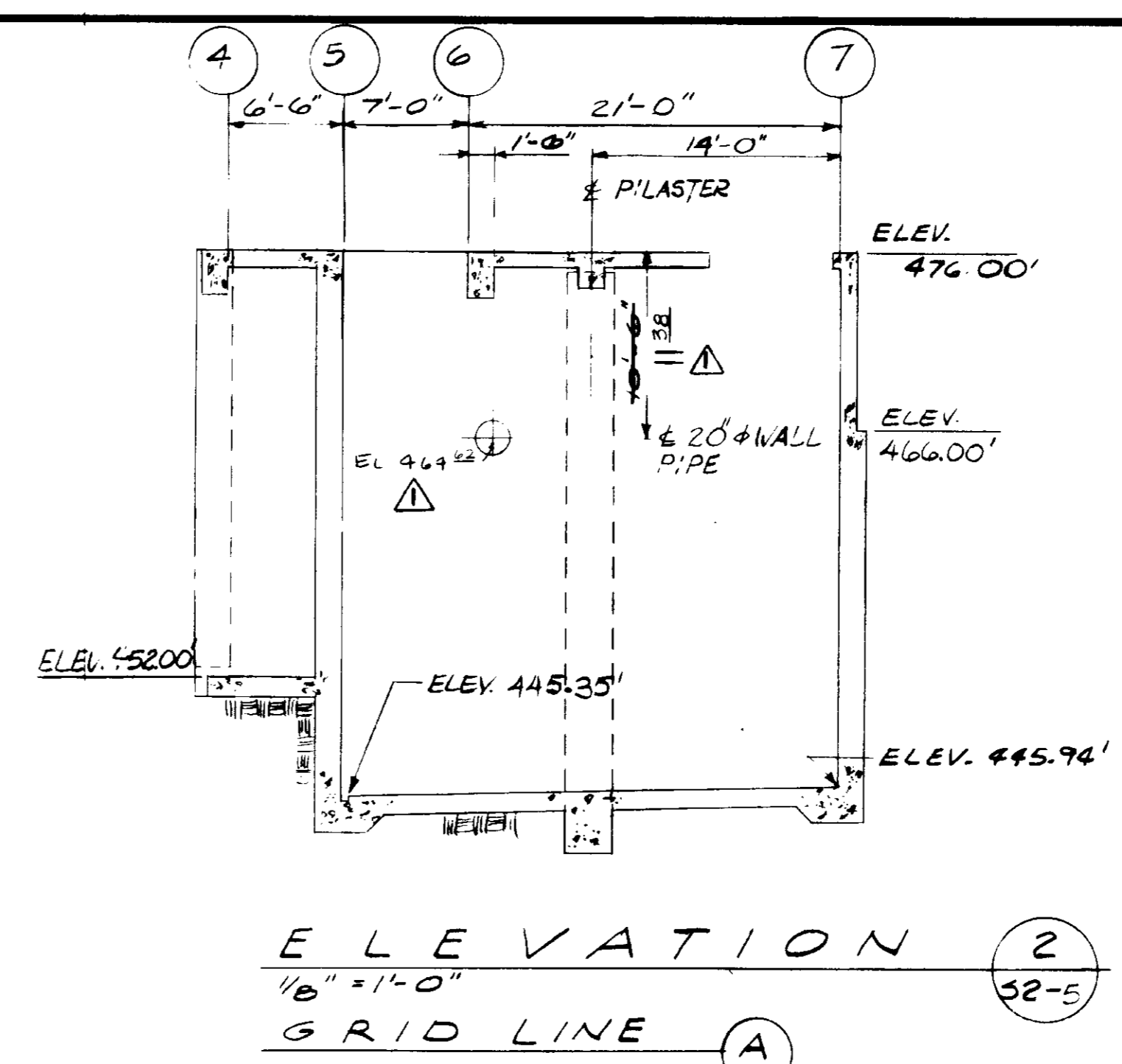
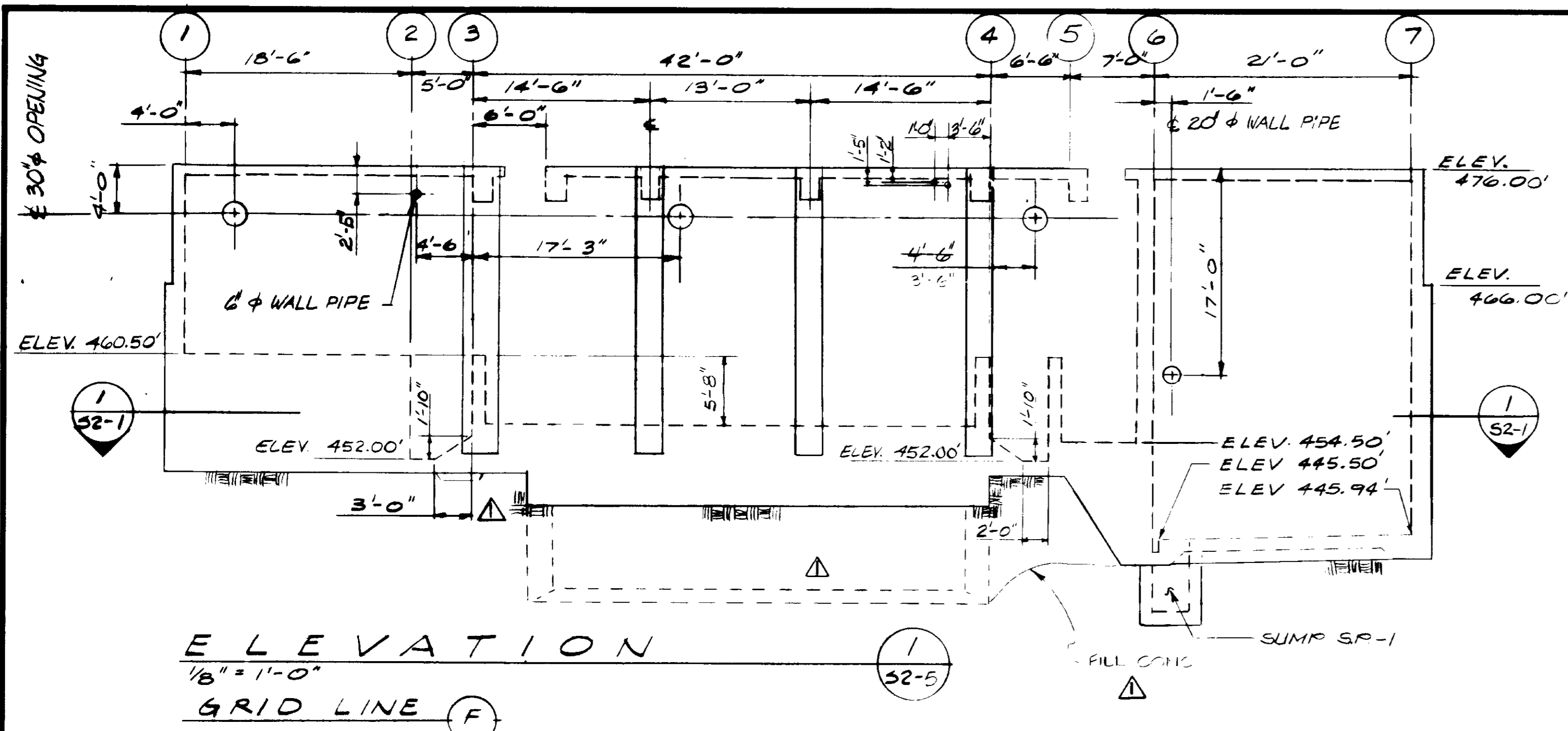
RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yip Volante
RCE 14038
KATSURA CONSULTING ENGINEERS March 1988



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03067

SCALE: 1/8" = 1'-0" DESIGNED: R. LEE DRAWN: K. RAHIMAN CHECKED:			SUBMITTED: <i>Yip Volante</i> 14038 8/15/79 PROJECT MANAGER: R.C.E. NO. DATE PROJECT ADMINISTRATOR: 14894 8/15/79 R.C.E. NO. DATE			JK CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117			LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS ELEVATIONS & DETAILS			SHEET S2-4
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION					
							REV PER J.C.E.					

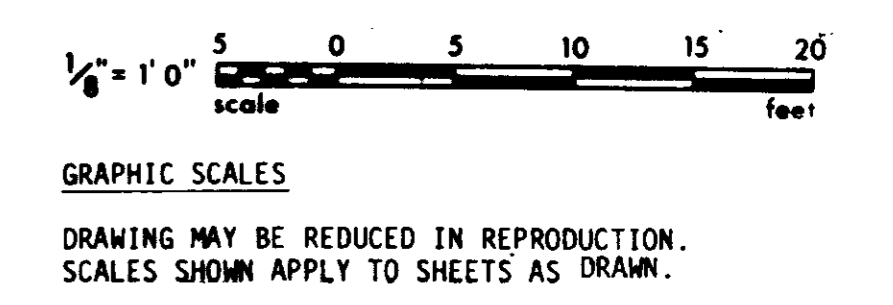


SUMP MARK NO.	TOC ELEV. 'A'	BOC ELEV. 'B'	REMARKS
S.P. #1	441.25'	439.25'	INFLUENT PUMP ROOM
S.P. #2	441.10'	439.10'	INFLUENT PUMP ROOM
S.P. #3	437.67'	435.50'	GRIT PUMP ROOM
S.P. #4	437.67'	435.50'	FILL WITH SAND AND COVER WITH GROUT SEE SH. S2-B(1)

- FOR NOTES SEE SH. S2-1
- UNLESS OTHERWISE NOTED, TRIM BARS AROUND ALL OPENINGS SHALL BE 2-#6 EACH FACE.

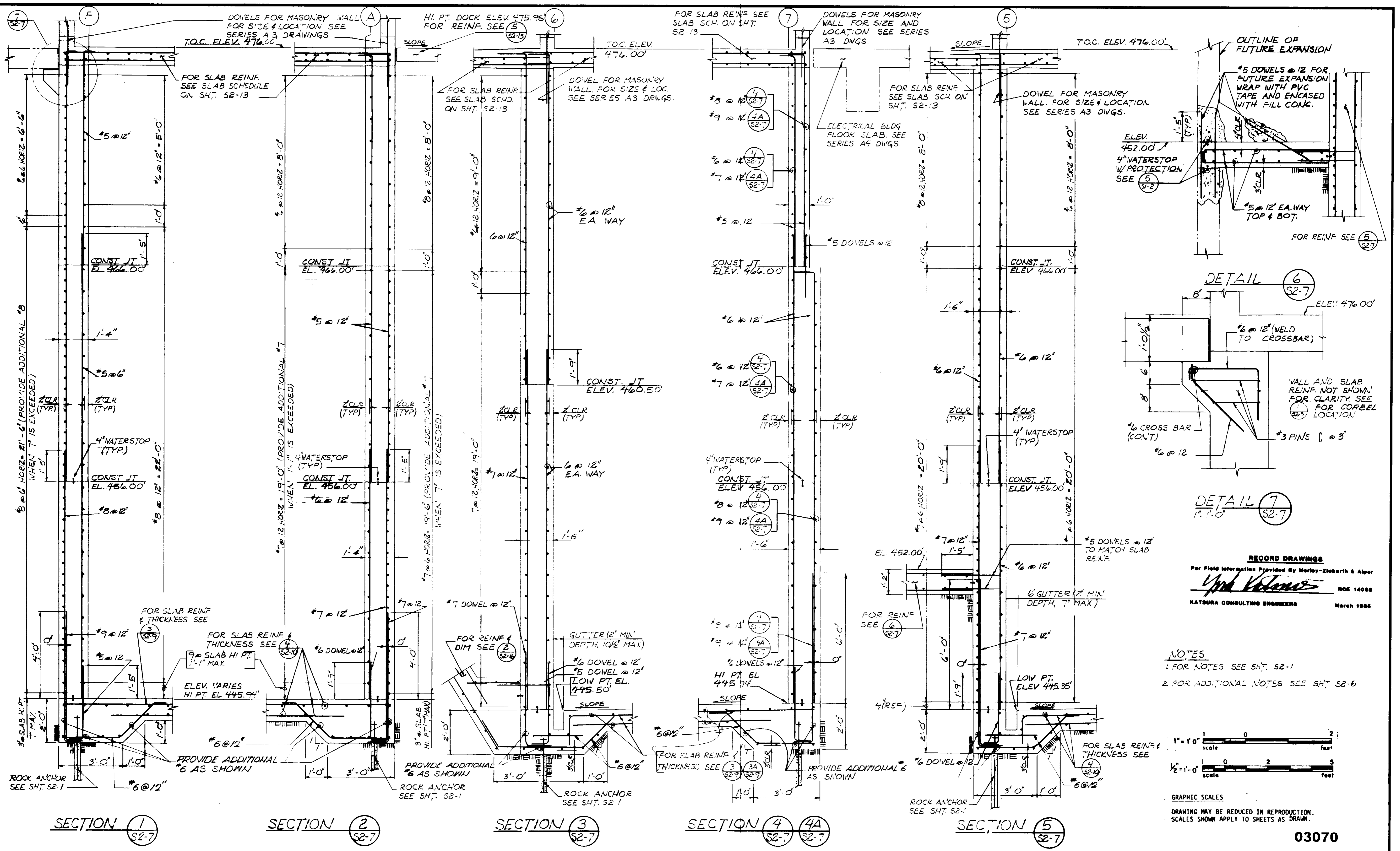
RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yph Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

SCHEDULE 5
 NO SCALE
 SUMP DETAIL



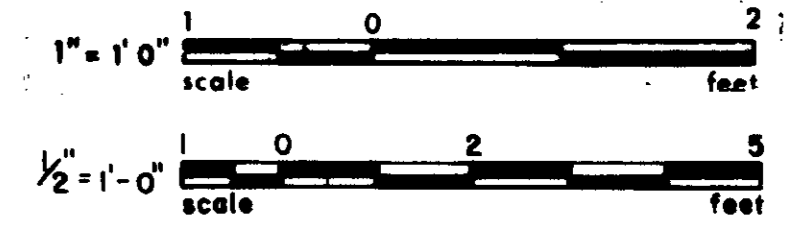
03068

SCALE: 1/8" = 1'-0" M.R. KRADOWER DESIGNED M. KRADOWER DRAWN K. RAHMAN CHECKED		SUBMITTED: <i>[Signature]</i> PROJECT MANAGER: <i>[Signature]</i> PROJECT ADMINISTRATOR: <i>[Signature]</i>		14038 8/15/79 R.C.E. NO. DATE 14894 8/15/79 R.C.E. NO. DATE		J&K CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS ELEVATIONS & DETAILS		SHEET S2-5	
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION				
				22884	CL		REV PER MZA & JCE				



RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yard Williams
 KATSURA CONSULTING ENGINEERS
 ROE 14038
 March 1985

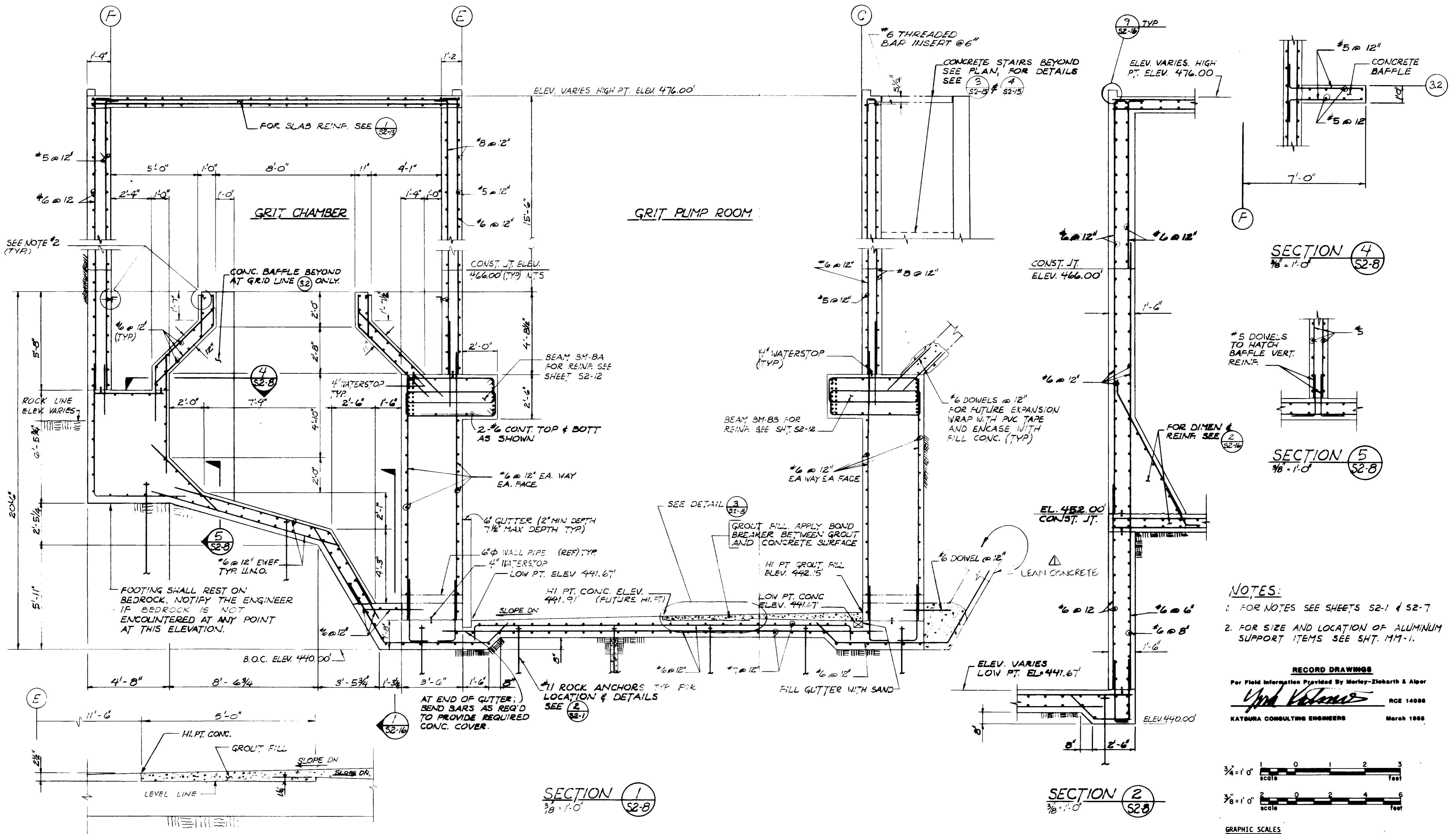
NOTES
 1. FOR NOTES SEE SHT. 52-1
 2. FOR ADDITIONAL NOTES SEE SHT. 52-6



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

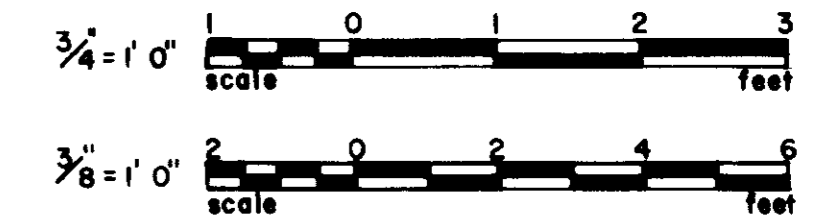
03070

SCALE : 1/2" = 1'-0" UNLESS NOTED		DESIGNED R. NEALY DRAWN K. RAJAGAN CHECKED		SUBMITTED <i>Yard Williams</i> PROJECT MANAGER 14038 8/15/79 R.C.E. NO. DATE		CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS WALLS-SECTIONS & DETAILS		SHEET S2-7	
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION				



- NOTES:**
- FOR NOTES SEE SHEETS S2-1 & S2-7
 - FOR SIZE AND LOCATION OF ALUMINUM SUPPORT ITEMS SEE SHT. M1-1.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. P. Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

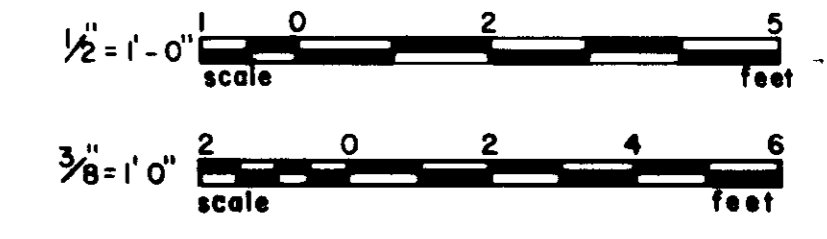
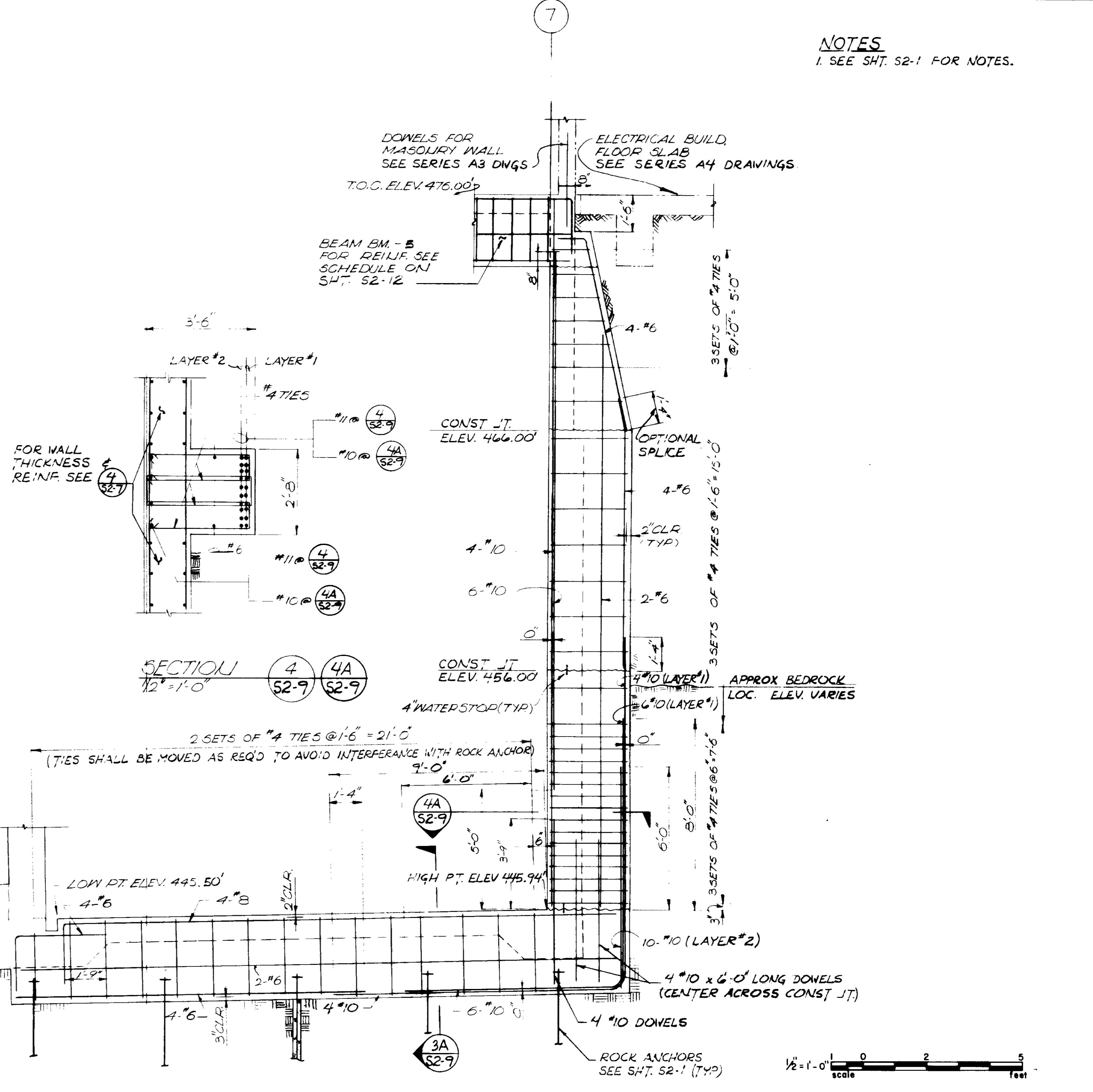
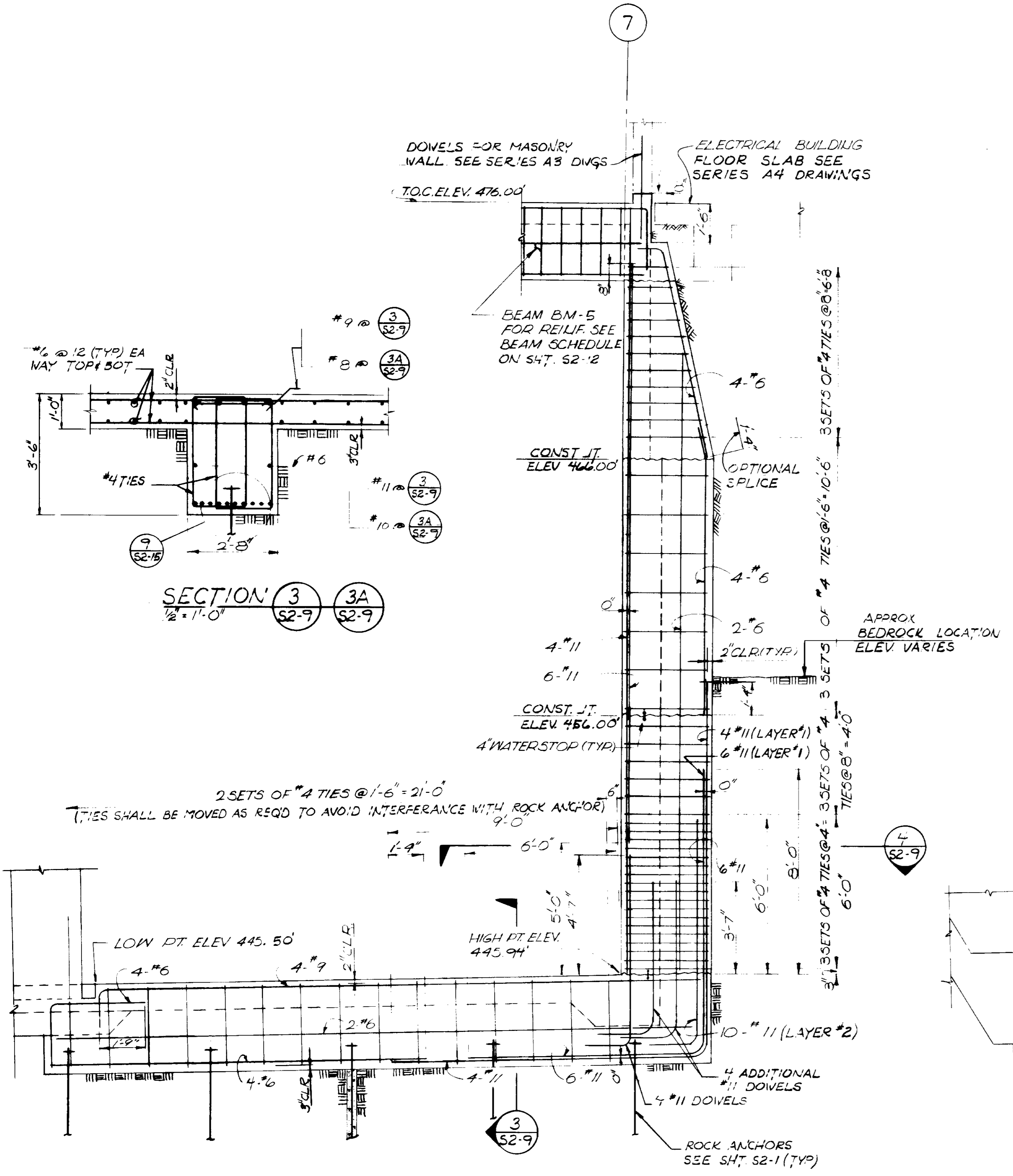


GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03071

SCALE: AS NOTED DESIGNED: R. LEWIS DRAWN: K. NEALY CHECKED: K. RAYMOND		SUBMITTED: <i>Y. P. Katsura</i> PROJECT MANAGER: 14038 8/15/79 R.C.E. NO. DATE		 CONSULTING ENGINEERS A JOINT VENTURE 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS WALLS-SECTIONS & DETAILS		SHEET S2-8
REV. DATE BY DESCRIPTION 6-28-84 C.L. REV. PER MZA & JCE	REV. DATE BY DESCRIPTION 6-28-84 C.L. REV. PER MZA & JCE	SCALE: AS NOTED DESIGNED: R. LEWIS DRAWN: K. NEALY CHECKED: K. RAYMOND	SUBMITTED: <i>Y. P. Katsura</i> PROJECT MANAGER: 14038 8/15/79 R.C.E. NO. DATE	SUBMITTED: <i>Y. P. Katsura</i> PROJECT MANAGER: 14038 8/15/79 R.C.E. NO. DATE	 CONSULTING ENGINEERS A JOINT VENTURE 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS WALLS-SECTIONS & DETAILS	SHEET S2-8	

NOTES
1. SEE SH. 52-1 FOR NOTES.

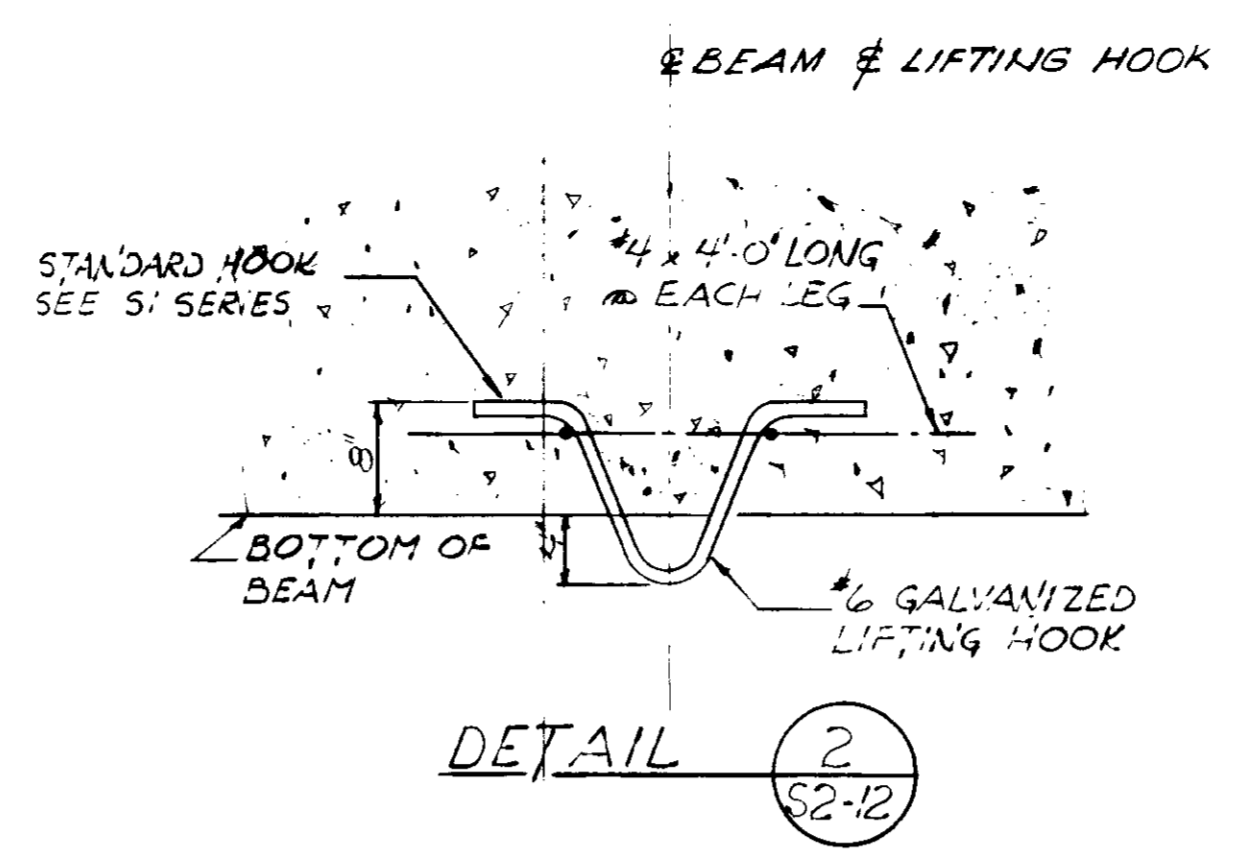
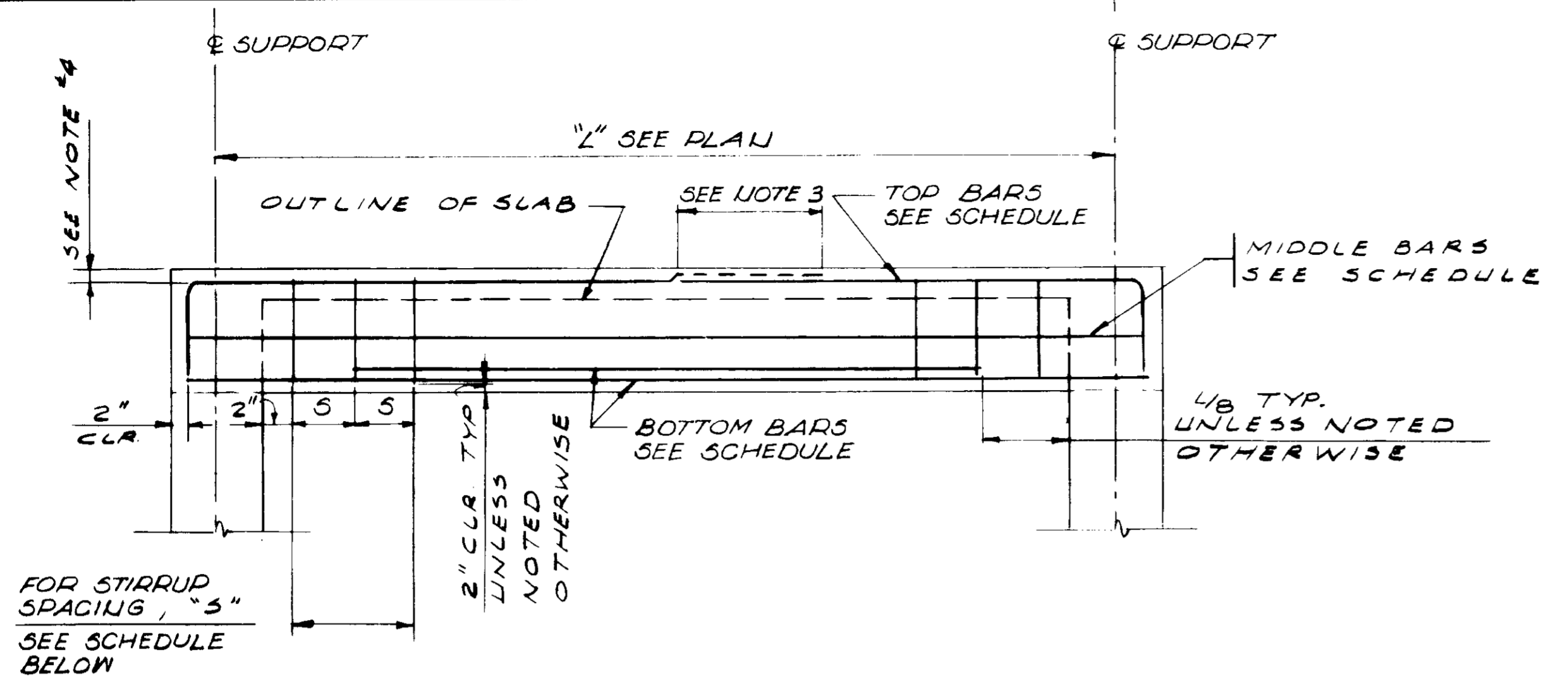


RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Yph Katsura
RCE 14038
KATSURA CONSULTING ENGINEERS March 1988

GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03072

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	SCALE :	DESIGNED	SUBMITTER	14038	8/15/79	CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.	SHEET 52-9
								AS NOTED	DRAWN	PROJECT MANAGER	14884	8/15/79			



- NOTES**
1. FOR ADDITIONAL NOTES, SEE SHEET S2-1.
 2. UNLESS NOTED OTHERWISE, ALL REINFORCEMENT SHALL BE SPLICED AND BENT IN ACCORDANCE WITH THE PROVISIONS OF GENERAL STRUCTURAL NOTES OF SERIES 51 DRAWINGS.
 3. SPLICE NO MORE THAN 50% OF BARS WITHIN 36" LENGTH.
 4. TOP BARS OF BEAMS SHALL PASS BELOW TOP BAR OF SLABS.

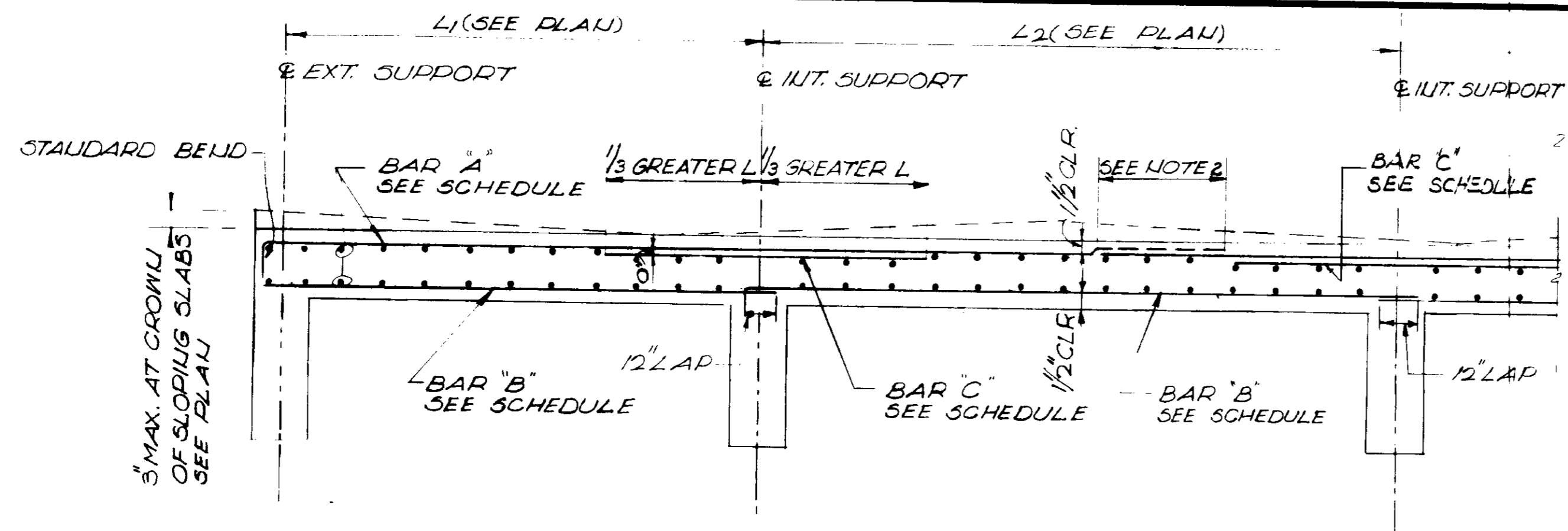
MARK	SECTION	WEST SUPPORT	FACE OF SUPPORT	EAST SUPPORT	REMARKS	MARK	SECTION	NORTH & SOUTH SUPPORT	REMARKS
BM-1		2-#6	STIRRUP SPAC'G #3 @ 8"			BM-9		2-#6	FOR MASONRY CURB DETAILS SEE (11) (A1-7)
BM-2			#3 @ 9"	2-#6		BM-10		6-#9	1. BOTTOM BARS OF BM-10 SHALL BE PLACED UNDER BOTTOM BARS OF BM-3 2. FOR MASONRY CURB DETAILS SEE (11) (A1-7)
BM-3		2-#6	#3 @ 9"	2-#6	BOTTOM BARS OF BM-3 SHALL BE PLACED OVER BOTTOMS OF BM-10	BM-11		3-#6	
BM-4			SEE BM-2 FOR REINFORCEMENT NOTES		FOR MASONRY CURB DETAILS SEE (11) (A1-7)	BM-12		7-#9	
BM-5		3-#6	#3 @ 9"	2-#6	FOR LIFTING HOOK, SEE DETAIL (2) (S2-12). SEE PLAN ON S2-3 FOR LOCATION	BM-13		3-#6	BOTTOM BARS OF BM-13 SHALL BE PLACED UNDER BOTTOM BARS OF BM-6
BM-6		3-#6	#3 @ 9"	2-#6	BOTTOM BARS OF BM-6 SHALL BE PLACED OVER BOTTOM BARS OF BM-13. (2" CONC. COVER DOES NOT APPLY AT BOTTOM OF BM-6)	BM-14		3-#10	
BM-7			#3 @ 9"	2-#6		EM-15		3-#8	
BM-8A BM-8B			2 SETS #4 @ 14"	1-#9	FOR EACH ORIENTATION AND ADDITIONAL REINF. SEE (1) (S2-8) & (1) (S2-7) PROVIDE AN ADDITIONAL SET OF #4 TIES EACH SIDE OF BLOCKOUT				

SCHEDULE
SCALE: NONE
CONCRETE BEAMS

RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper

 RCE 14098
 KATSURA CONSULTING ENGINEERS March 1985
03075

SCALE: NO SCALE DESIGNED: J. BUNCH DRAWN: K. RAHMAN CHECKED:	SUBMITTED: PROJECT MANAGER: 14098 R.C.E. NO. 8/15/79 DATE PROJECT ADMINISTRATOR: 14894 R.C.E. NO. 8/15/79 DATE	 CONSULTING ENGINEERS A JOINT VENTURE 8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 833-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS BEAM SCHEDULE	SHEET S2-12
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- NOTES**
- FOR NOTES SEE SH. S2-1.
 - SPLICE NO MORE THAN 50% OF CONT. BARS WITHIN 36φ LENGTH
 - PROVIDE TRIM BARS AT ALL SLAB OPENINGS GREATER THAN 4"φ OR 4" SQ. SEE SHEET S2-3.

MARK	DEPTH t (INCHES)	REINFORCEMENT				REMARKS
		BAR "A"	BAR "B"	BAR "C"		
		SIZE & SPACING	SIZE & SPACING	SIZE & SPACING	LOCATION	
S-1	8 (MIN.)	#4 @ 12"	#6 @ 4"	#4 @ 4"	NORTH SUPPORT	
S-2				#4 @ 4"	NORTH SUPPORT	
S-3				#4 @ 4"	NORTH SUPPORT	
S-4	8 (MIN.)		#6 @ 4"			
S-5	VARIES SEE PLAN		#5 @ 6"			PROVIDE THREADED BAR INSERTS FOR FUTURE EXPANSION. SEE DET. 19/S2-13
S-6	8 (MIN.)		#4 @ 12"	#4 @ 12"	EAST SUPPORT	EXTEND #4 TOP BARS ACROSS WEST SUPPORT
S-7			#5 @ 12"	#6 @ 12"	EAST SUPPORT	BEND #4 TOP BARS AT OPENING INTO WEST SUPPORT
S-8			#5 @ 6"	#5 @ 6"	EAST SUPPORT	
S-9			#5 @ 6"	#6 @ 12"	EAST SUPPORT	
S-10			#5 @ 12"	#4 @ 12"	EAST SUPPORT	BEND #4 TOP BARS AT OPENING INTO EAST SUPPORT
S-11	8 (MIN.)		#4 @ 12"			EXTEND #4 TOP BARS ACROSS EAST SUPPORT
S-12	8 (MIN.)		#6 @ 6"			EXTEND #4 TOP BARS ACROSS EAST SUPPORT
S-13	10		#7 @ 6"			
S-14	10		#6 @ 6"	#7 @ 6"	SOUTH SUPPORT	
S-15	10		#7 @ 12"	#7 @ 12"	SOUTH SUPPORT	
S-16	10	#4 @ 12"	#5 @ 12"			
S-17	8 (MIN.)	#4 @ 12"	#5 @ 12"			PROVIDE THREADED BAR INSERTS FOR FUTURE EXPANSION. SEE DET. 19/S2-15

SCHEDULE 1
52-14
 CONCRETE SLABS

03076

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alger
Yosh Katsura
 RCE 14898
 KATSURA CONSULTING ENGINEERS March 1985

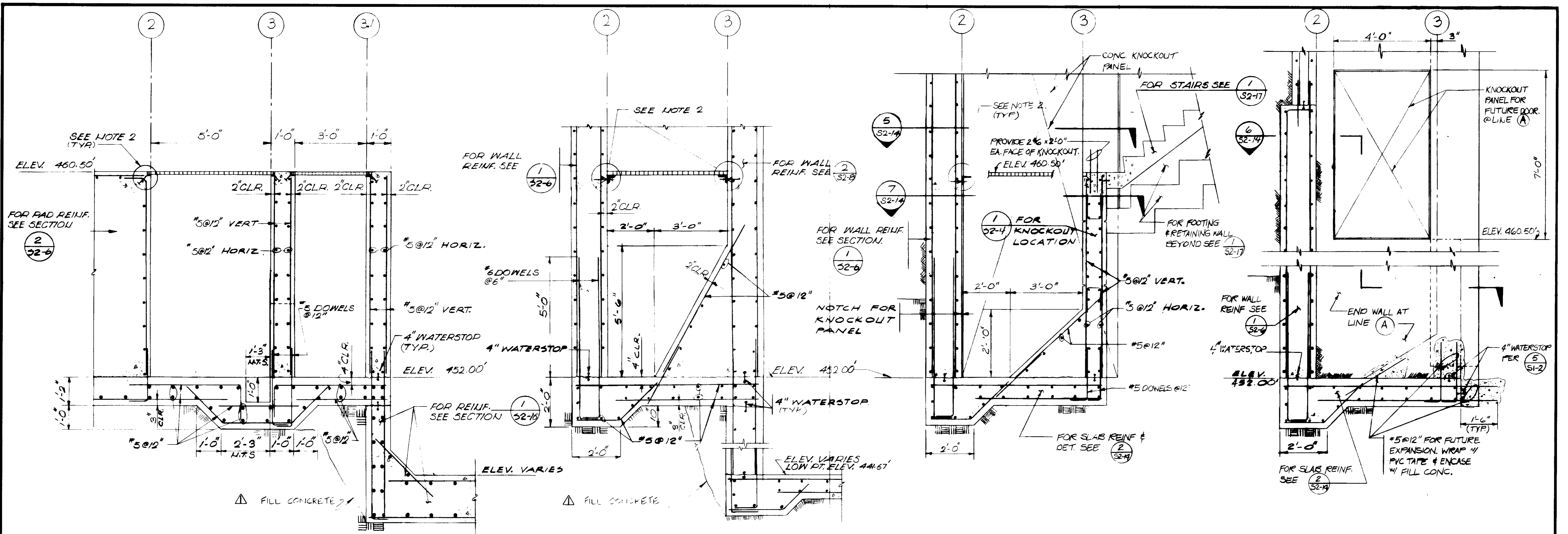
REV	DATE	BY	DESCRIPTION

SCALE : NO SCALE
 DESIGNED: R/L - M/K
 J. Smith
 DRAWN: K. Katsura
 CHECKED: *[Signature]*
 SUBMITTED: *[Signature]*
 PROJECT MANAGER: 14038 8/15/79
 PROJECT ADMINISTRATOR: 14894 8/15/79

JKC CONSULTING ENGINEERS
 A JOINT VENTURE
 8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 HEADWORKS
 SLAB SCHEDULE

SHEET
 S2-13

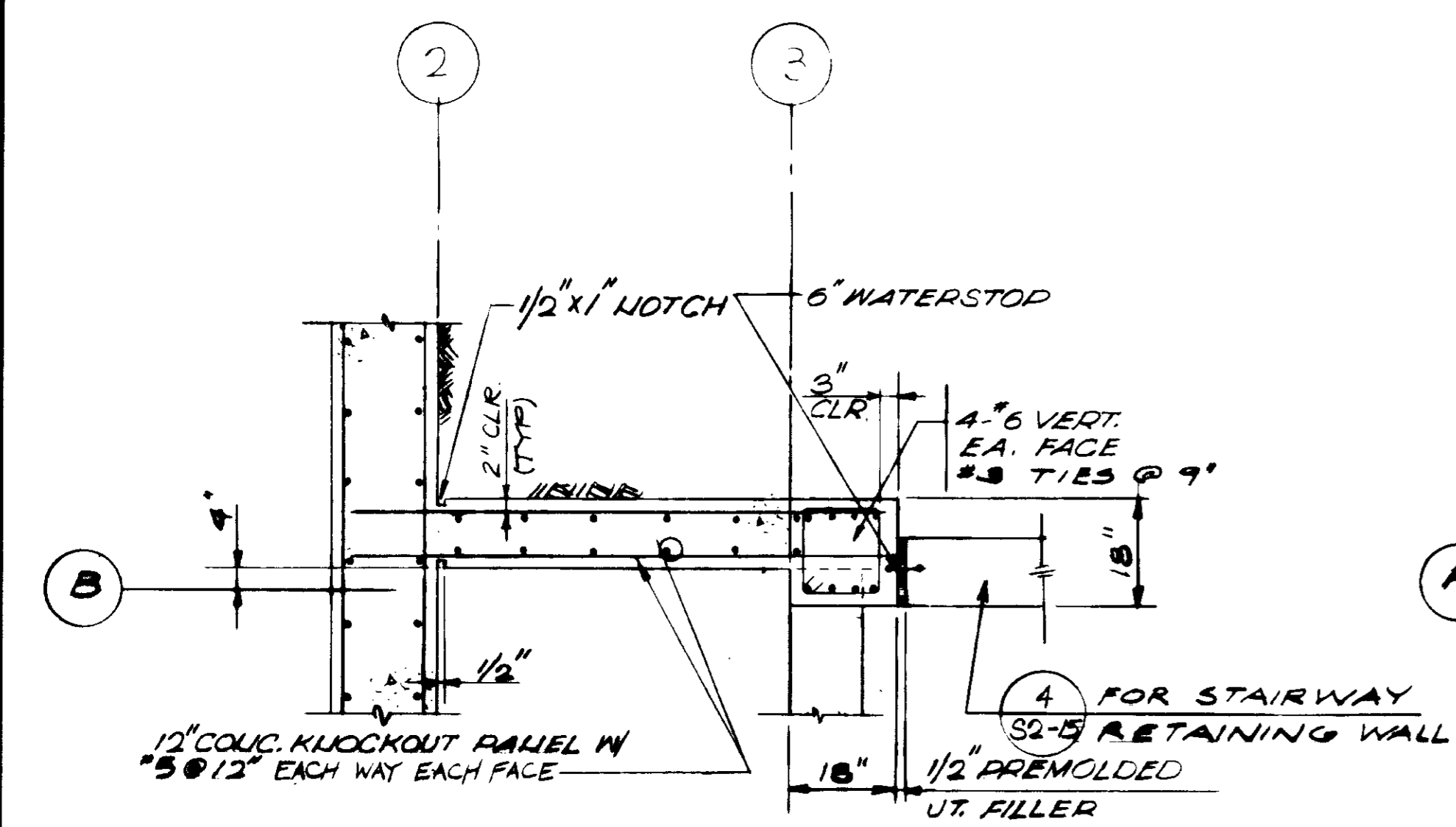


SECTION 1
1/2" = 1'-0" S2-14

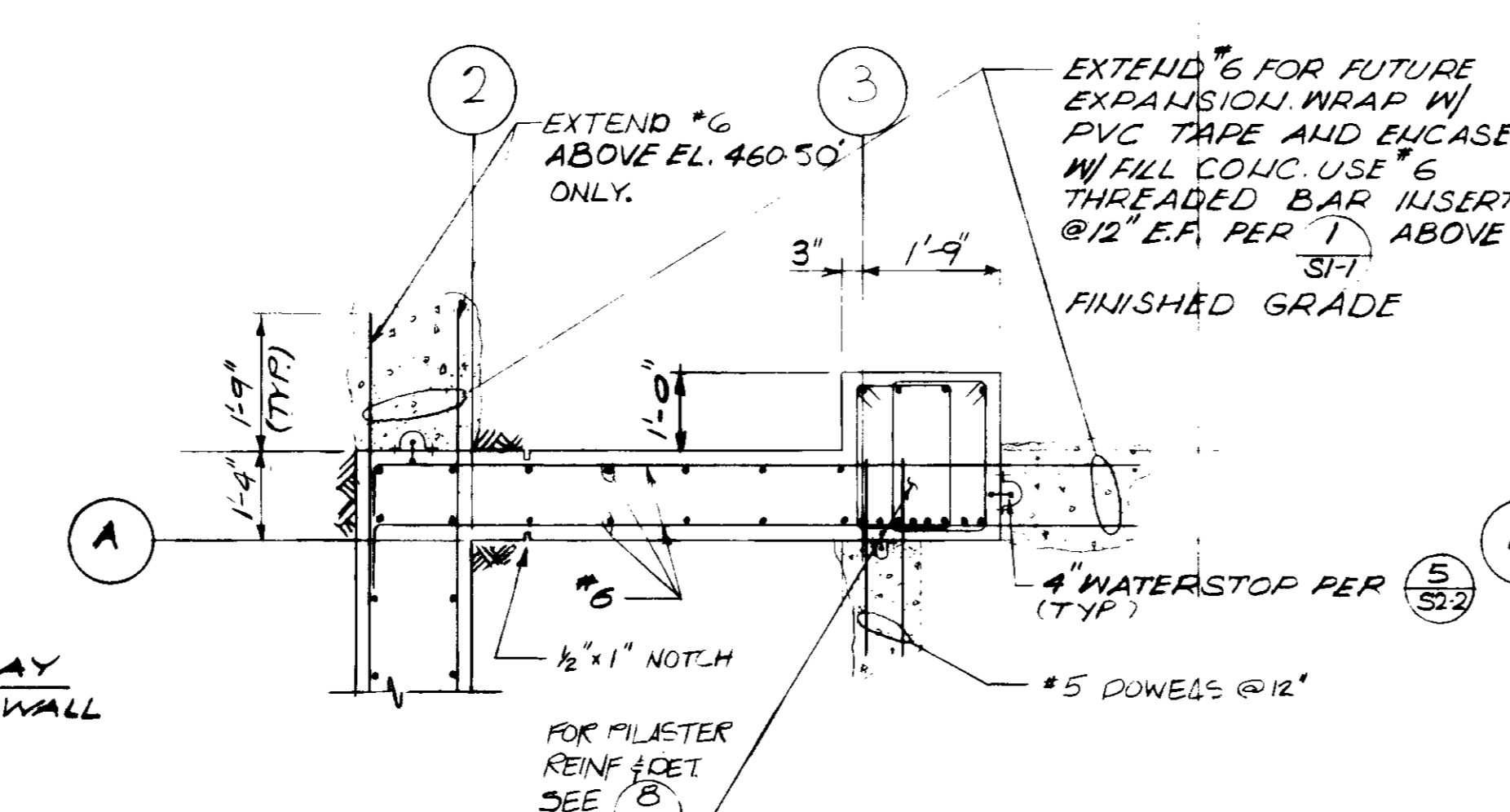
SECTION 2
1/2" = 1'-0" S2-14

SECTION 3
1/2" = 1'-0" S2-14

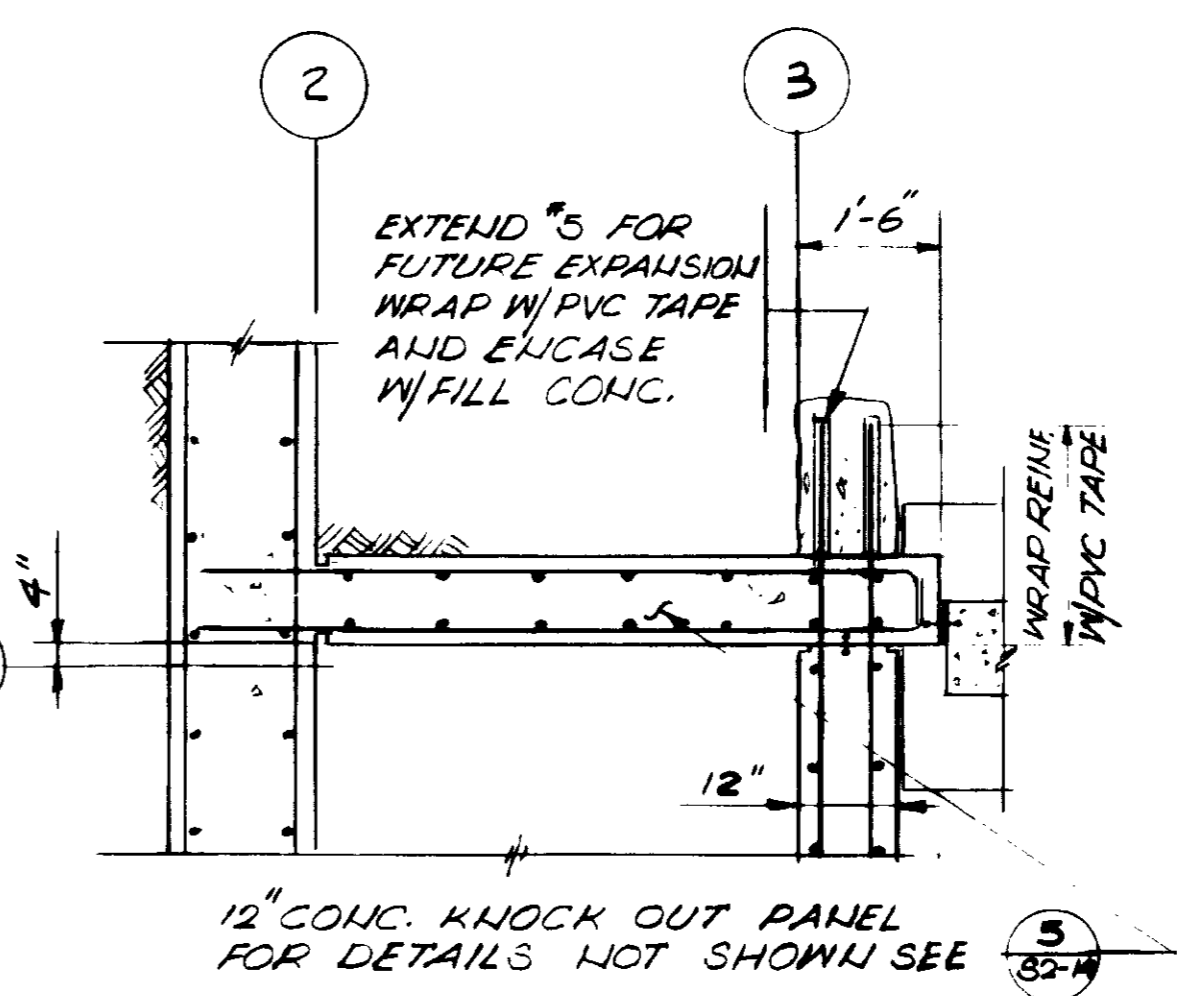
SECTION 4
1/2" = 1'-0" S2-14



SECTION 5
1/2" = 1'-0" S2-14
PLAN



SECTION 6
1/2" = 1'-0" S2-14
PLAN



SECTION 7
1/2" = 1'-0" S2-14
PLAN

- NOTES:**
1. FOR NOTES SEE SHEET S2-1.
 2. FOR SIZE AND LOCATION OF ALUMINUM GRATING SUPPORT ITEMS SEE SHEET MM-1.

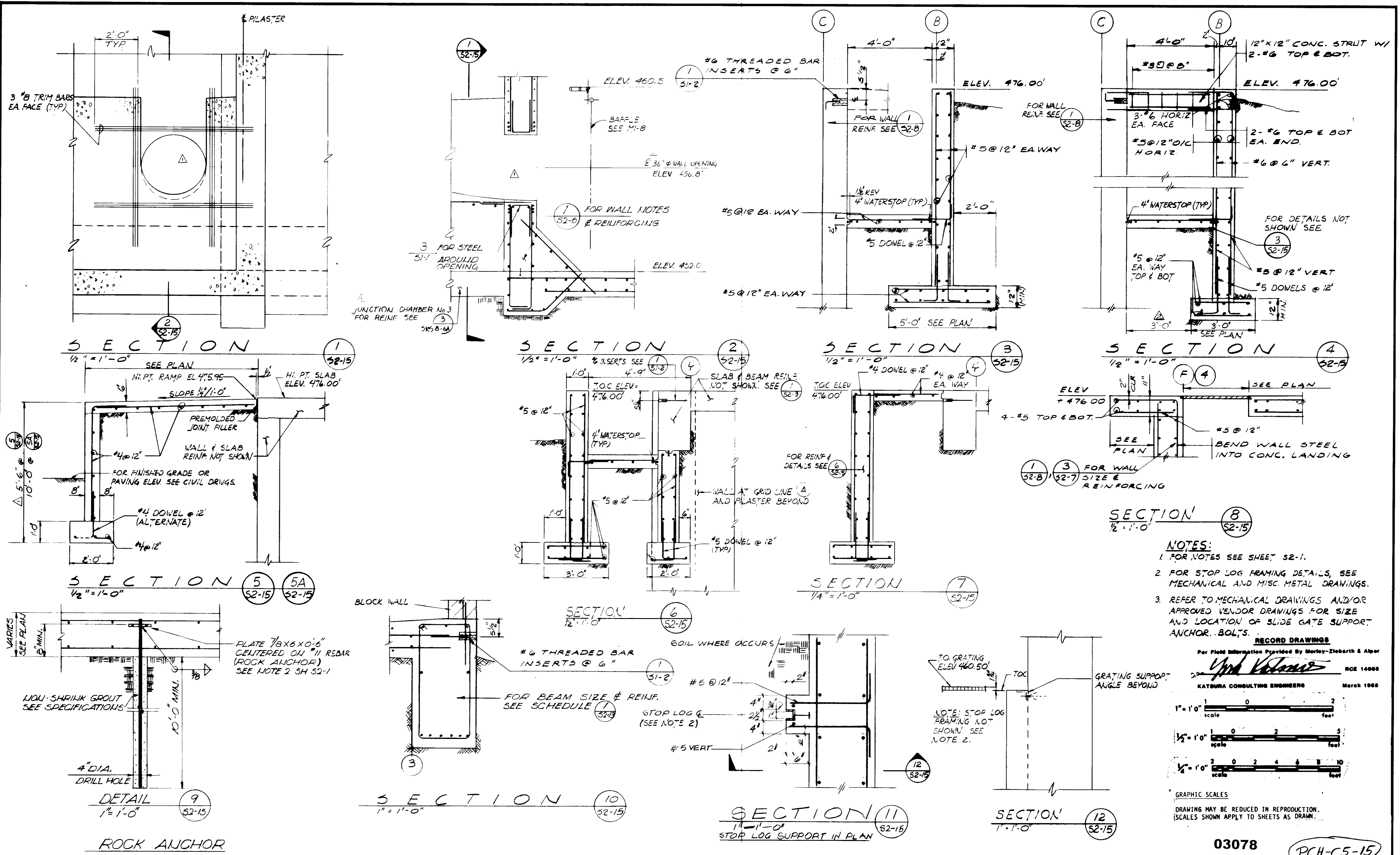
RECORD DRAWINGS
 Per Field Information Provided By Morley-Zisborth & Alper
Yosh Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03077

SCALE: 1/2" = 1'-0" DESIGNED: J. SINGH DRAWN: K. RAHMAN CHECKED:		SUBMITTED: <i>M. J. Stone</i> 14038 8/15/79 PROJECT MANAGER: R.C.E. NO. DATE PROJECT ADMINISTRATOR: <i>Scott Wheeler</i> 14894 8/15/79 R.C.E. NO. DATE		JJK CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS MISCELLANEOUS SECTIONS & DETAILS		SHEET S2-14
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	



- NOTES:**
- FOR NOTES SEE SHEET S2-1.
 - FOR STOP LOG FRAMING DETAILS, SEE MECHANICAL AND MISC. METAL DRAWINGS.
 - REFER TO MECHANICAL DRAWINGS AND/OR APPROVED VENDOR DRAWINGS FOR SIZE AND LOCATION OF SLIDE GATE SUPPORT ANCHOR BOLTS.

RECORD DRAWINGS

Per Field Information Provided by Morley-Ziebarth & Alper

Yuh Victoria RCE 14088

KATOURA CONSULTING ENGINEERS March 1985

1" = 1'-0" scale

1/2" = 1'-0" scale

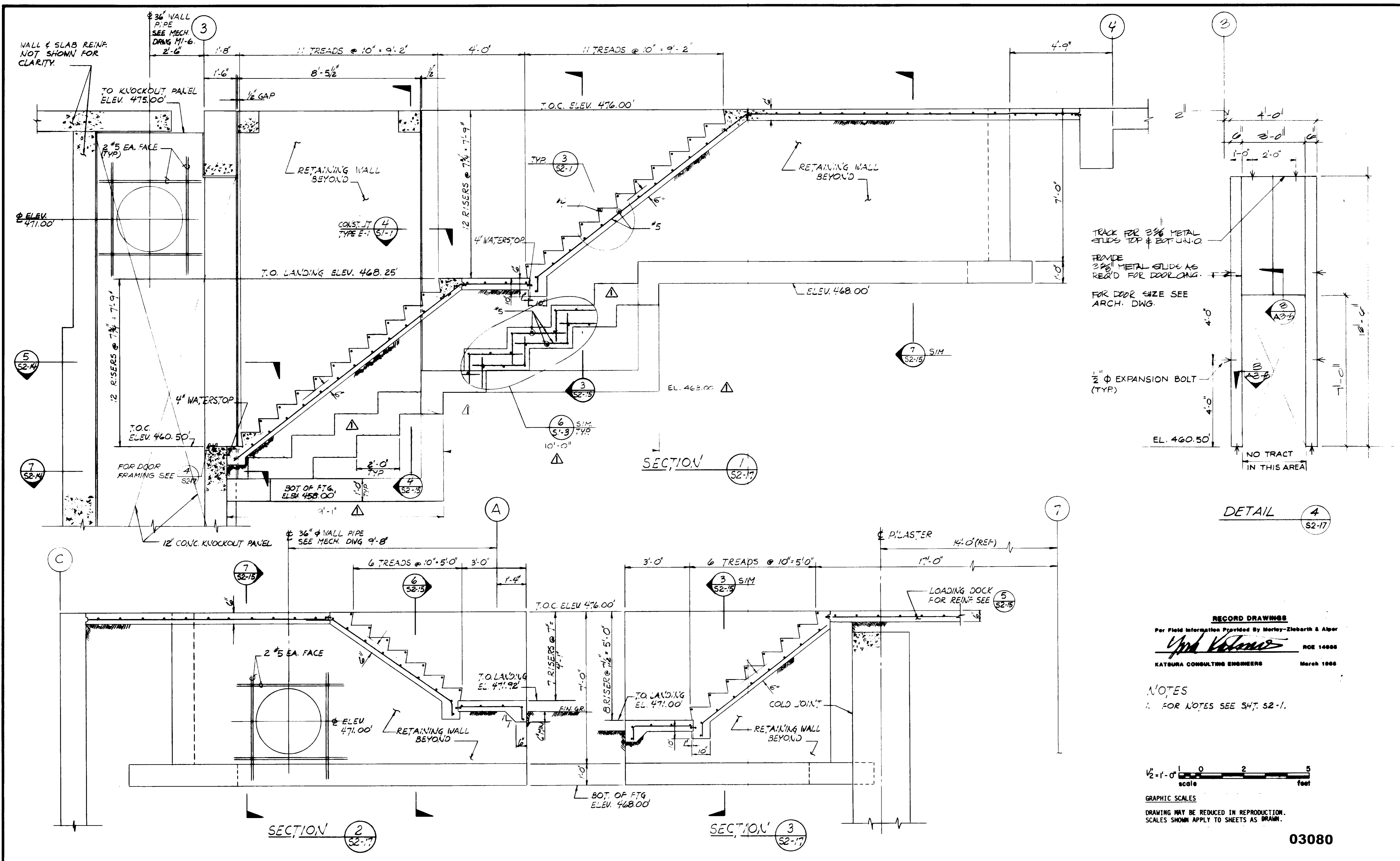
1/4" = 1'-0" scale

GRAPHIC SCALES

DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03078 **PCH-C5-15**

SCALE: AS NOTED R/L - M/K DESIGNED: J. SUTCH DRAWN: K. RAHIMAN CHECKED:		SUBMIT: <i>Yuh Victoria</i> 14088 8/15/79 PROJECT MANAGER: R.C.E. NO. DATE PROJECT ADMINISTRATOR: <i>Yuh Victoria</i> 14894 8/15/79 R.C.E. NO. DATE		J&K CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. HEADWORKS MISCELLANEOUS SECTIONS & DETAILS		SHEET S2-15
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	



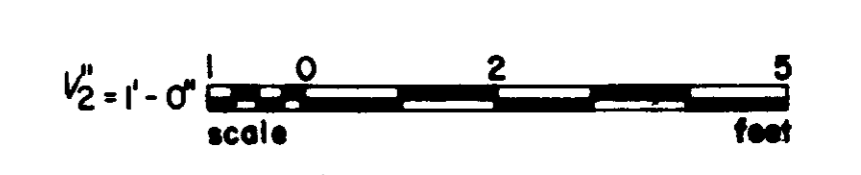
TRACK FOR 3/8" METAL SLIDE TOP & BOT. UNO.
 PROVIDE 3/8" METAL SLIDE AS REQ'D FOR DOOR LING.
 FOR DOOR SIZE SEE ARCH. DWG.

1/2" ϕ EXPANSION BOLT (TYP.)

DETAIL 4
S2-17

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alger
Yuh Katsura R.C.E. 14038
 KATSURA CONSULTING ENGINEERS March 1985

NOTES
 1. FOR NOTES SEE SH. S2-1.



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03080

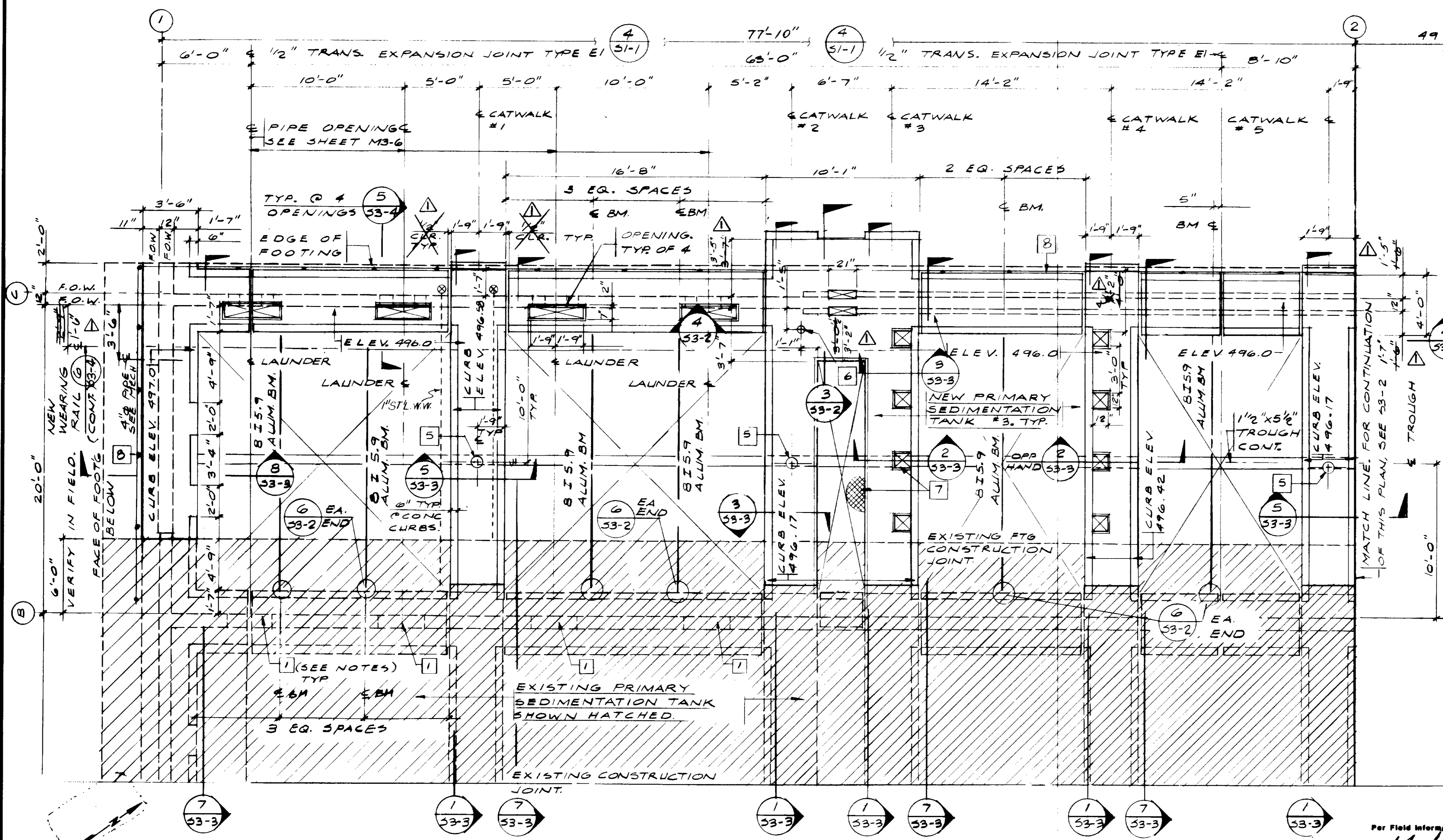
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE : 1/2" = 1'-0"	DESIGNED R. NEALY	SUBMITTED <i>Katsura</i> 14038 8/15/79
DRAWN K. RAHMANN	CHECKED	PROJECT MANAGER R.C.E. NO. DATE
		PROJECT ADMINISTRATOR 14894 8/15/79
		R.C.E. NO. DATE

JKK CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 HEADWORKS
 STAIRWAYS & RETAINING WALL SECTIONS

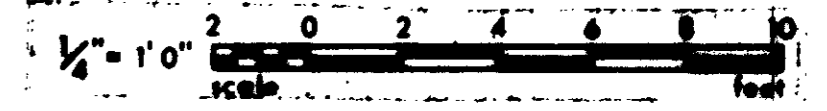
SHEET
 S2-17



- NOTES:**
- DESIGNATION "1" REFERENCES A NOTE TO PLAN
 - REMOVE EXISTING KNOCKOUT PANELS TO PROVIDE FOR MECH. EQUIP EXPANSION. SEE SH. MS-3
 - SEE TYPICAL DETAILS AND GENERAL NOTES OF "51" SERIES.
 - F.O.W. MEANS FACE OF WALL.
 - 2" Ø FLOOR DRAIN W/ SOLID COVER
 - ALUMINUM VALVE BOX SECTION.
 - PROVIDE ALUMINUM TREAD # OVER OPENING
 - VERIFY LOCATION OF CATWALK HANDRAILS W/ MECHANICAL DRAWINGS
 - DESIGNATION "I" AND "—" REFER TO WATERSTOPS. IF THIS DESIGNATION IS SHOWN WITHOUT A SIZE VERIFY DIMENSION W/ ENGINEER PRIOR TO POURING CONCRETE
 - FOR LOCATION AND DIMENSIONS OF OPENINGS, EMBEDDED OR ATTACHED ITEMS, REFER TO MECHANICAL, ELECTRICAL INSTRUMENTATION & MISC. METAL DRAWINGS
 - ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE
 - PROVIDE 2-#5 AROUND ALL OPENINGS IN CATWALK W/ 24" EXTENSION PAST OPENINGS. IF 24" EXTENSION IS NOT POSSIBLE, EXTEND AS FAR AS POSSIBLE AND TERMINATE W/ STANDARK HOOK
 - FOR ALUM. COVER DETAILS SEE SH. MM-13

PLAN
 1/4" = 1'-0"
PRIMARY SEDIMENTATION TANK #3. SOUTH SIDE

RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper
Yuph Katsura
 RCE 14088
 KATSURA CONSULTING ENGINEERS March 1988



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03081

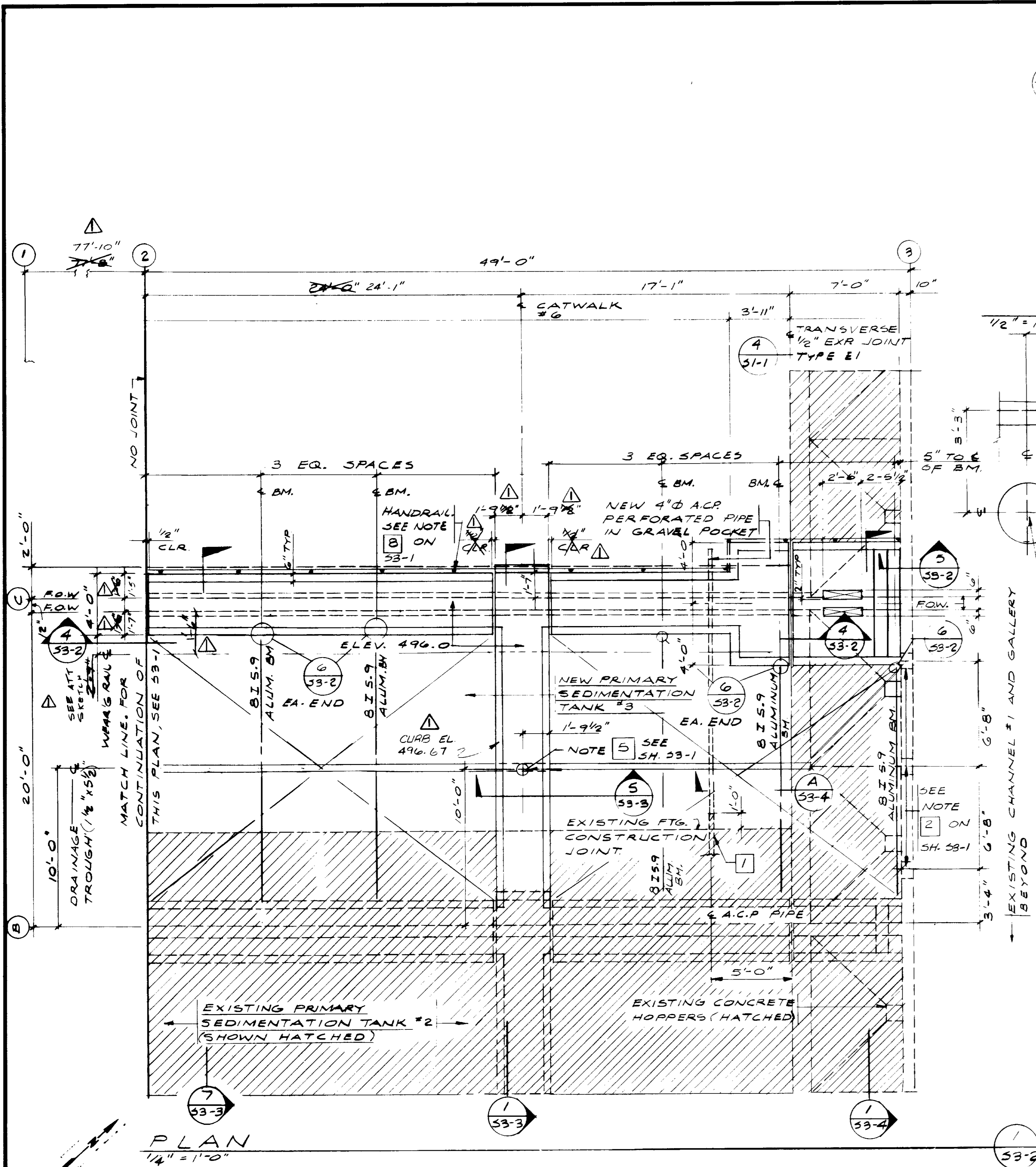
REV	DATE	BY	DESCRIPTION

SCALE :	DESIGNED BY M. KRÄKNER	SUBMITTED BY <i>Yuph Katsura</i>	14088	8/15/79
	DRAWN BY K. RAHMIAH	PROJECT MANAGER	R.C.E. NO.	DATE
	CHECKED	PROJECT ADMINISTRATOR	14894	8/15/79
			R.C.E. NO.	DATE

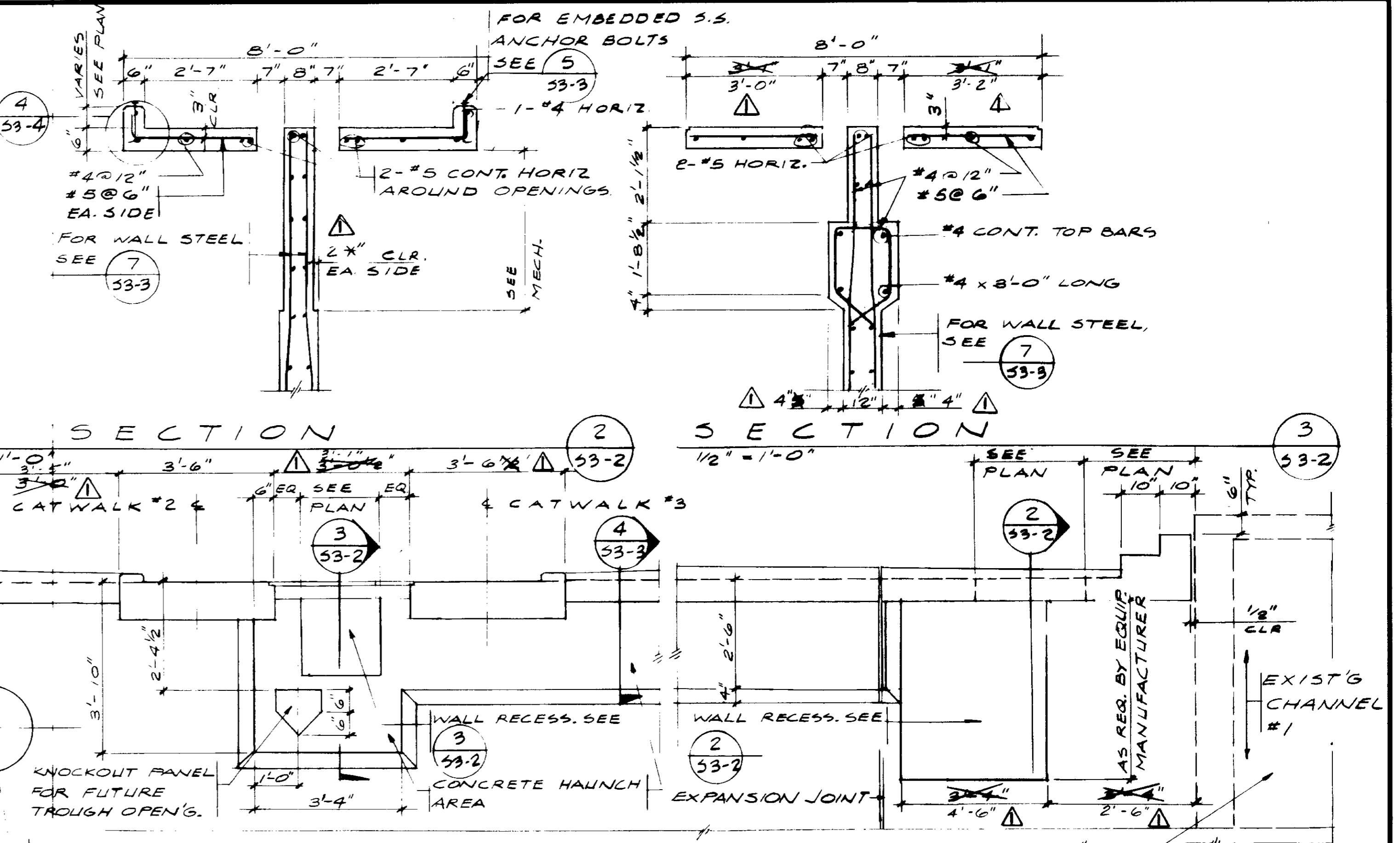
JKK CONSULTING ENGINEERS
 A JOINT VENTURE
 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 833-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 PRIMARY SEDIMENTATION TANK
 PLAN (SOUTH SIDE)

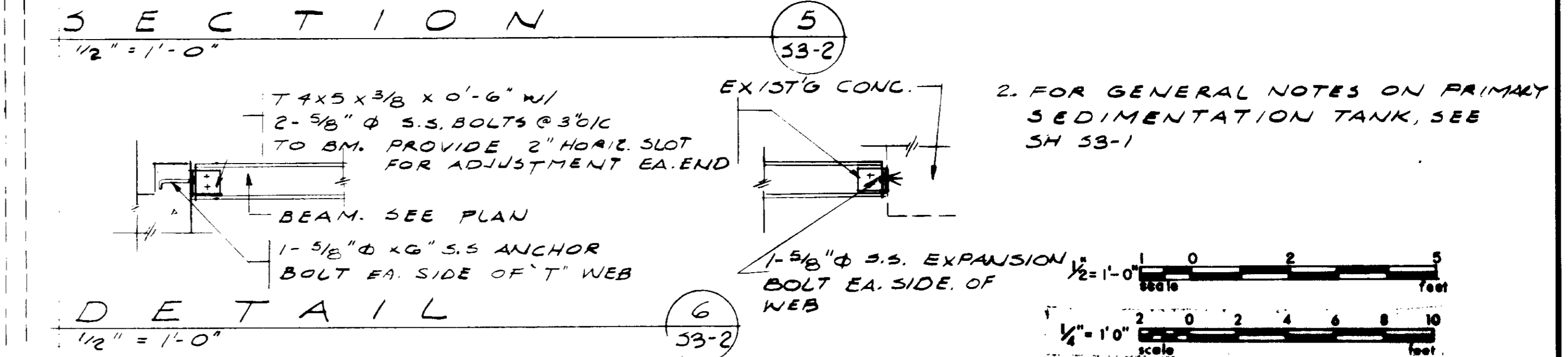
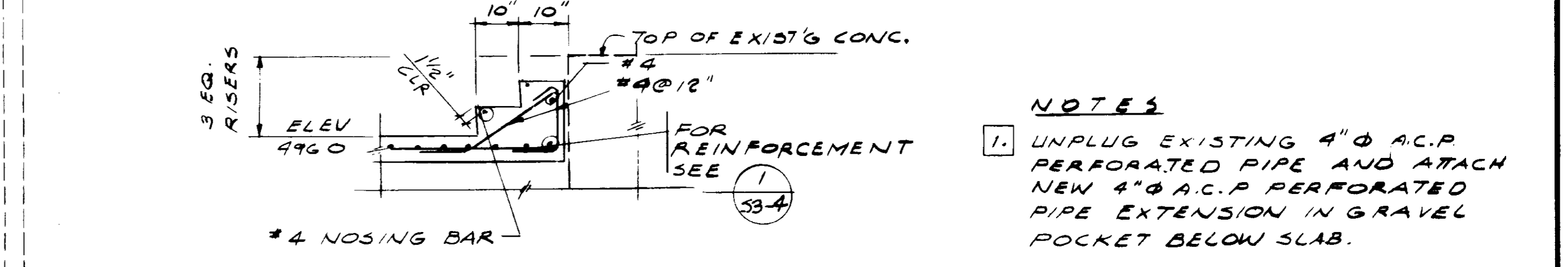
SHEET
S3-1



PLAN
 1/4" = 1'-0"
PRIMARY SEDIMENTATION TANK #3 (NORTH SIDE)

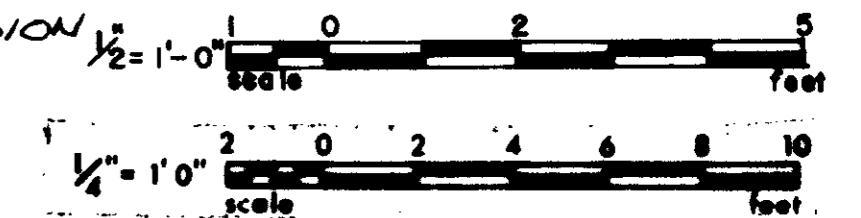


SECTION
 1/2" = 1'-0"
PARTIAL WALL ELEVATION
 1/2" = 1'-0"
 NOTE: EXACT LOCATIONS AND DIMENSIONS OF OPENINGS TO BE VERIFIED AND COORDINATED WITH MECHANICAL DRAWINGS AND EQUIPMENT SELECTED PRIOR TO THE START OF CONSTRUCTION.



SECTION
 1/2" = 1'-0"
DETAIL
 1/2" = 1'-0"

- NOTES**
- UNPLUG EXISTING 4" Ø A.C.P. PERFORATED PIPE AND ATTACH NEW 4" Ø A.C.P. PERFORATED PIPE EXTENSION IN GRAVEL POCKET BELOW SLAB.
 - FOR GENERAL NOTES ON PRIMARY SEDIMENTATION TANK, SEE SH 53-1



RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper
Yuh V. Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1986

03082

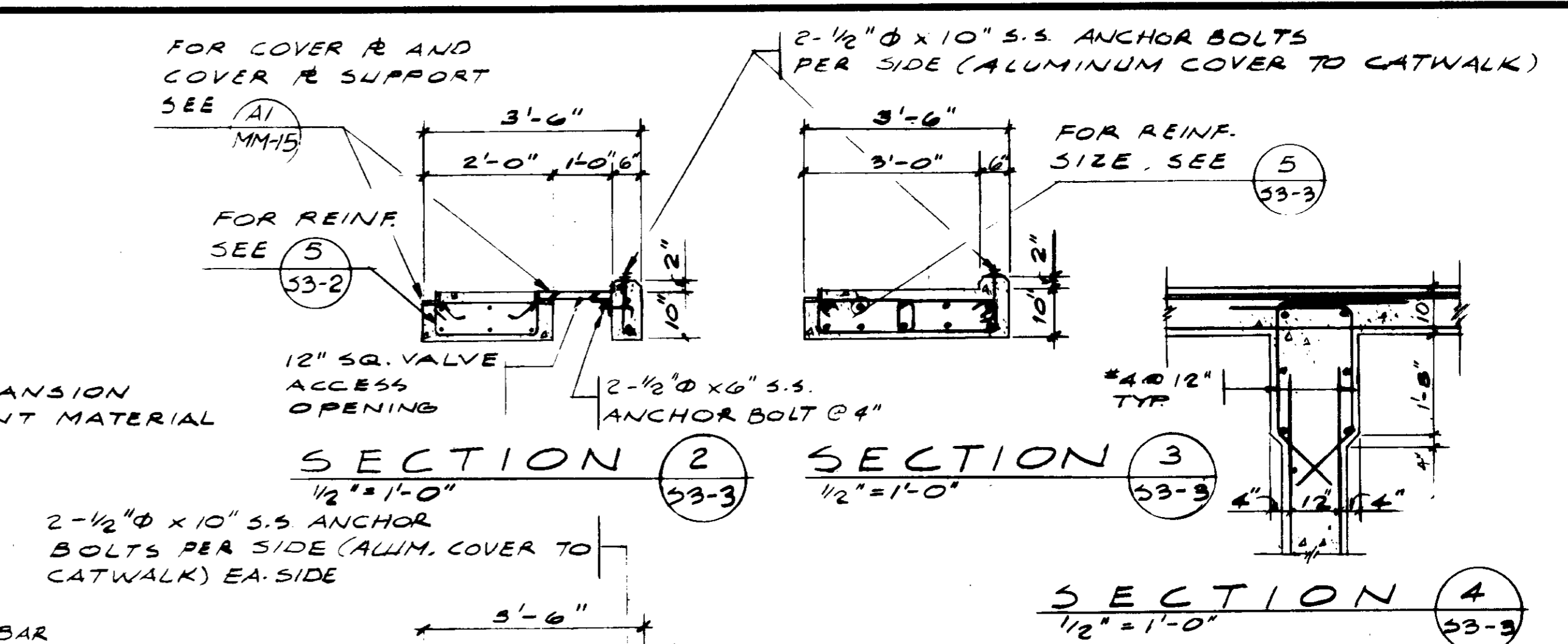
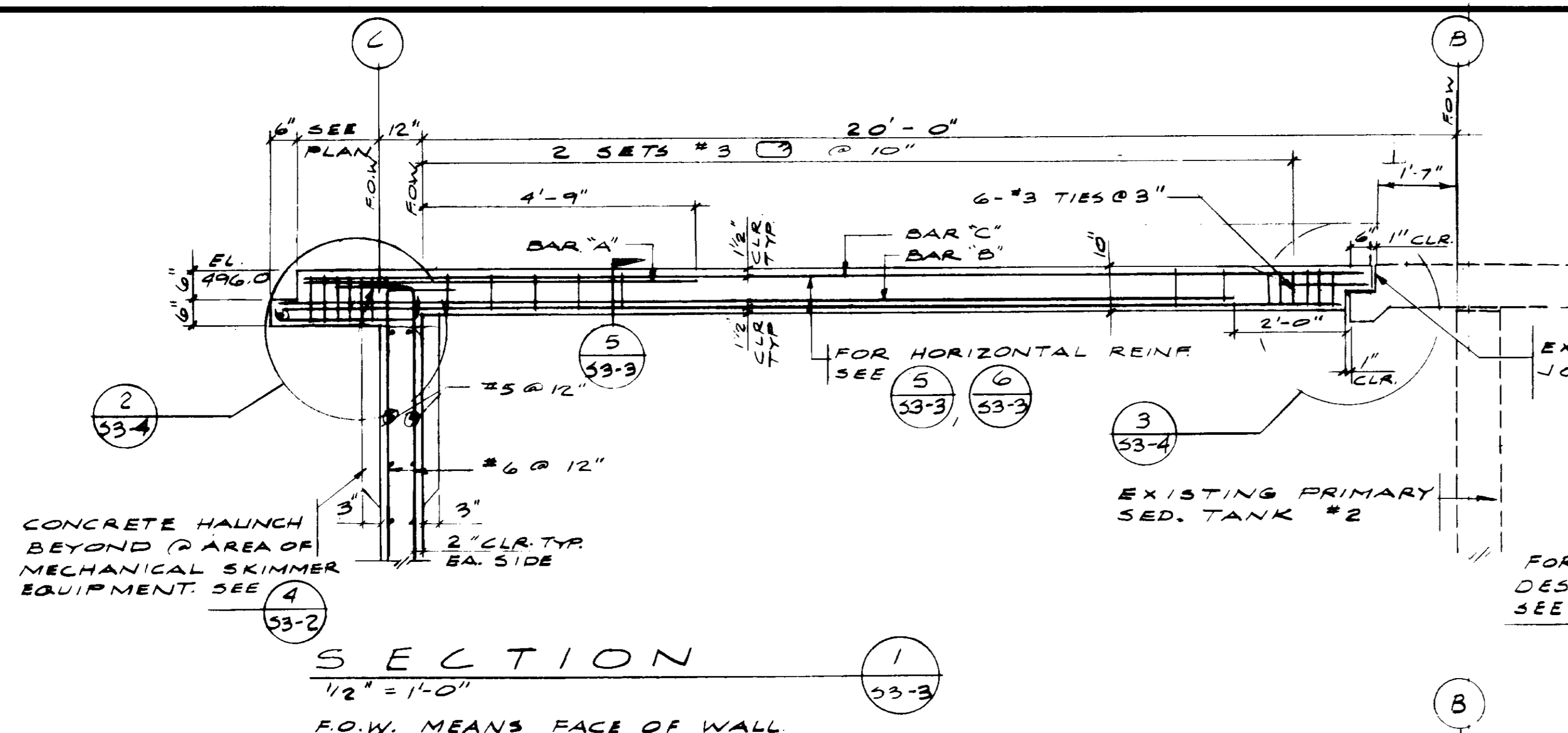
REV	DATE	BY	DESCRIPTION

SCALE: AS NOTED	DESIGNED: M. KRAKOWER	SUBMITTED: <i>Yuh V. Katsura</i>	14038	8/15/79
	DRAWN: K. CALMAN	PROJECT MANAGER: <i>Yuh V. Katsura</i>	R.C.E. NO.	DATE
	CHECKED: <i>K. Calman</i>	PROJECT ADMINISTRATOR: <i>Robert H. ...</i>	14884	8/15/79

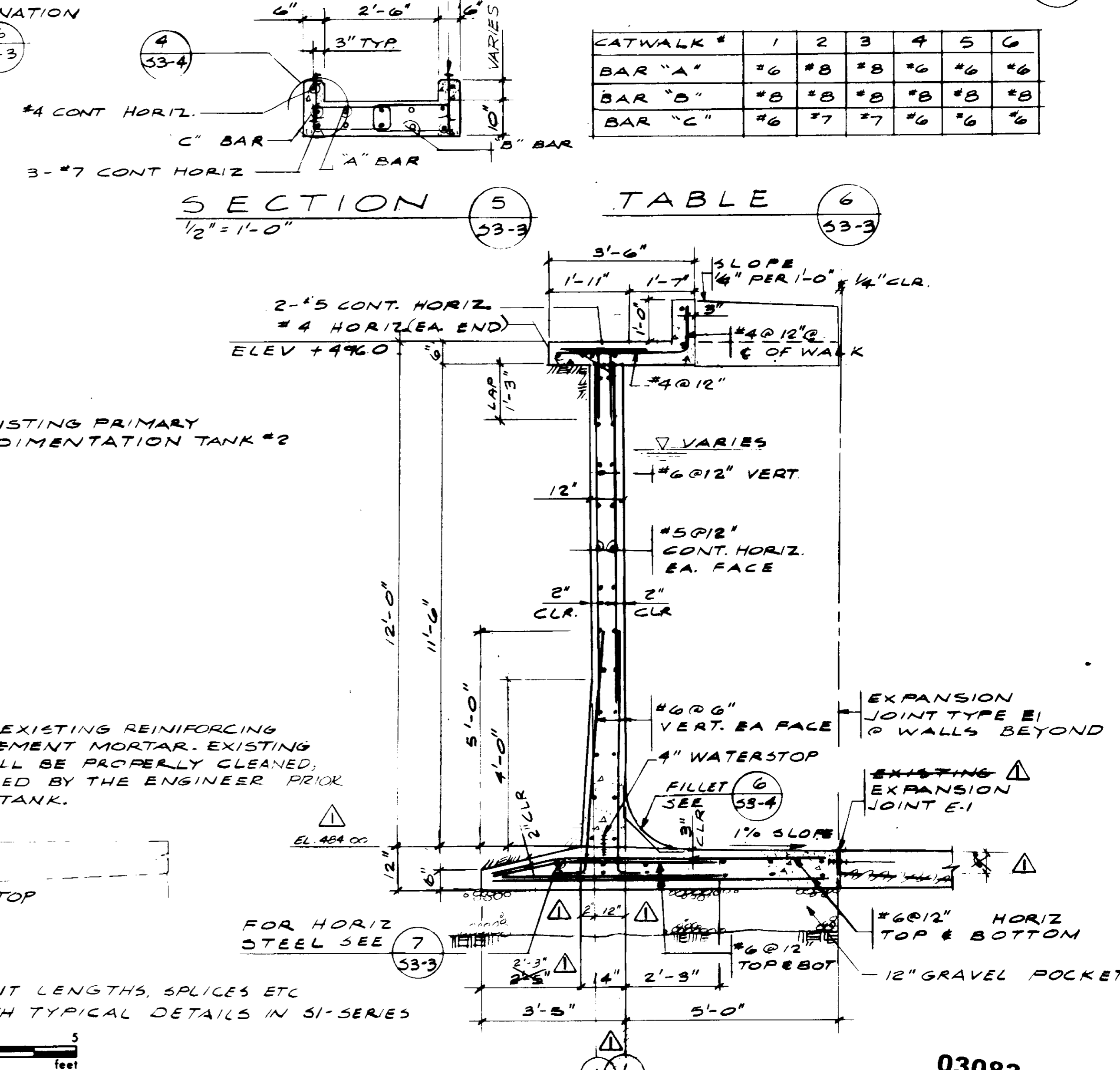
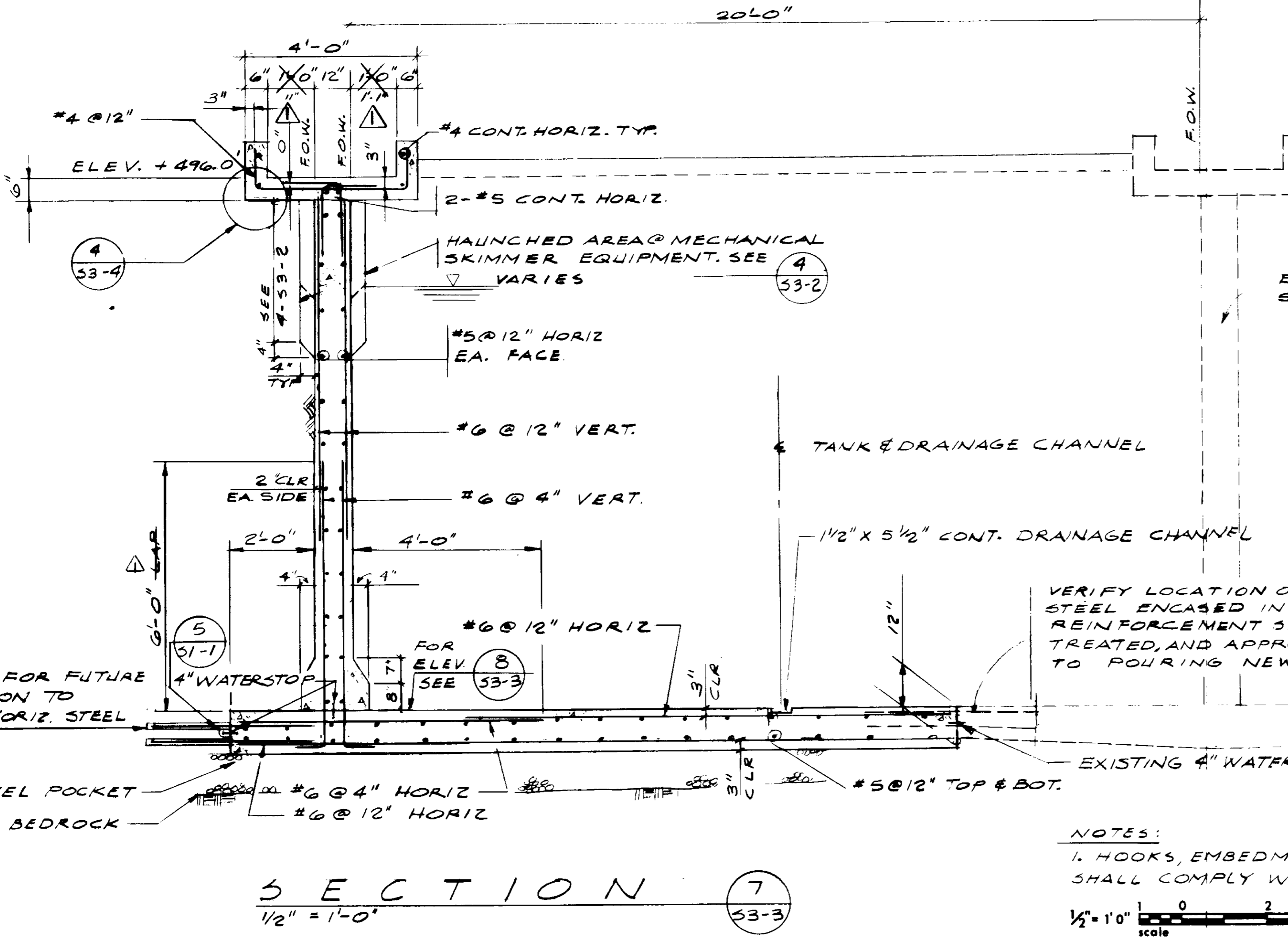
JK CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 PRIMARY SEDIMENTATION TANK
 PLAN (NORTH SIDE) DETAILS

SHEET
S3-2



CATWALK #	1	2	3	4	5	6
BAR "A"	#6	#8	#8	#6	#6	#6
BAR "B"	#8	#8	#8	#8	#8	#8
BAR "C"	#6	#7	#7	#6	#6	#6



VERIFY LOCATION OF EXISTING REINFORCING STEEL ENCASED IN CEMENT MORTAR. EXISTING REINFORCEMENT SHALL BE PROPERLY CLEANED, TREATED, AND APPROVED BY THE ENGINEER PRIOR TO POURING NEW TANK.

NOTES:
 1. HOOKS, EMBEDMENT LENGTHS, SPLICES ETC SHALL COMPLY WITH TYPICAL DETAILS IN S1-SERIES
 1/2" = 1'-0"
 scale 0 2 5 feet

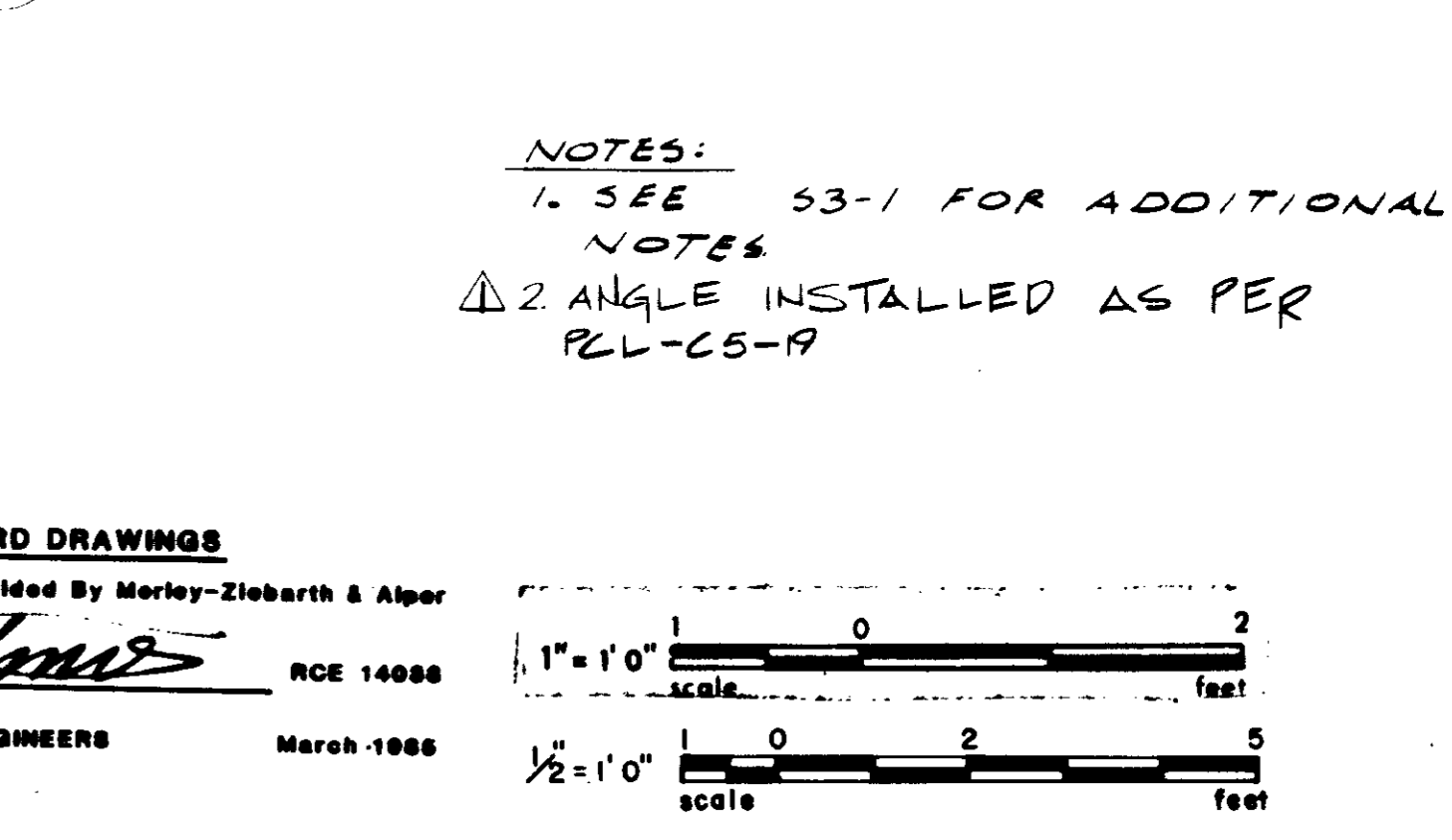
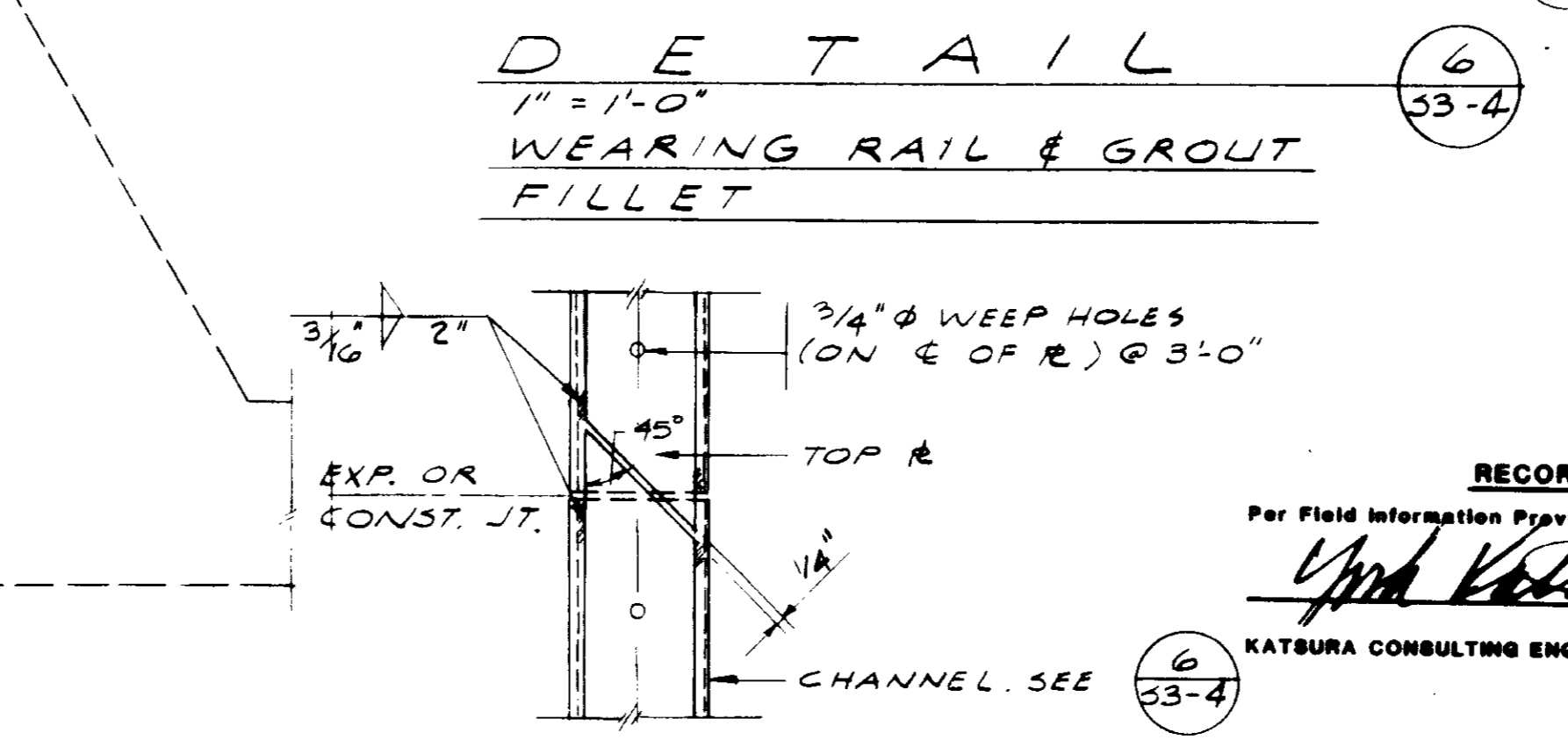
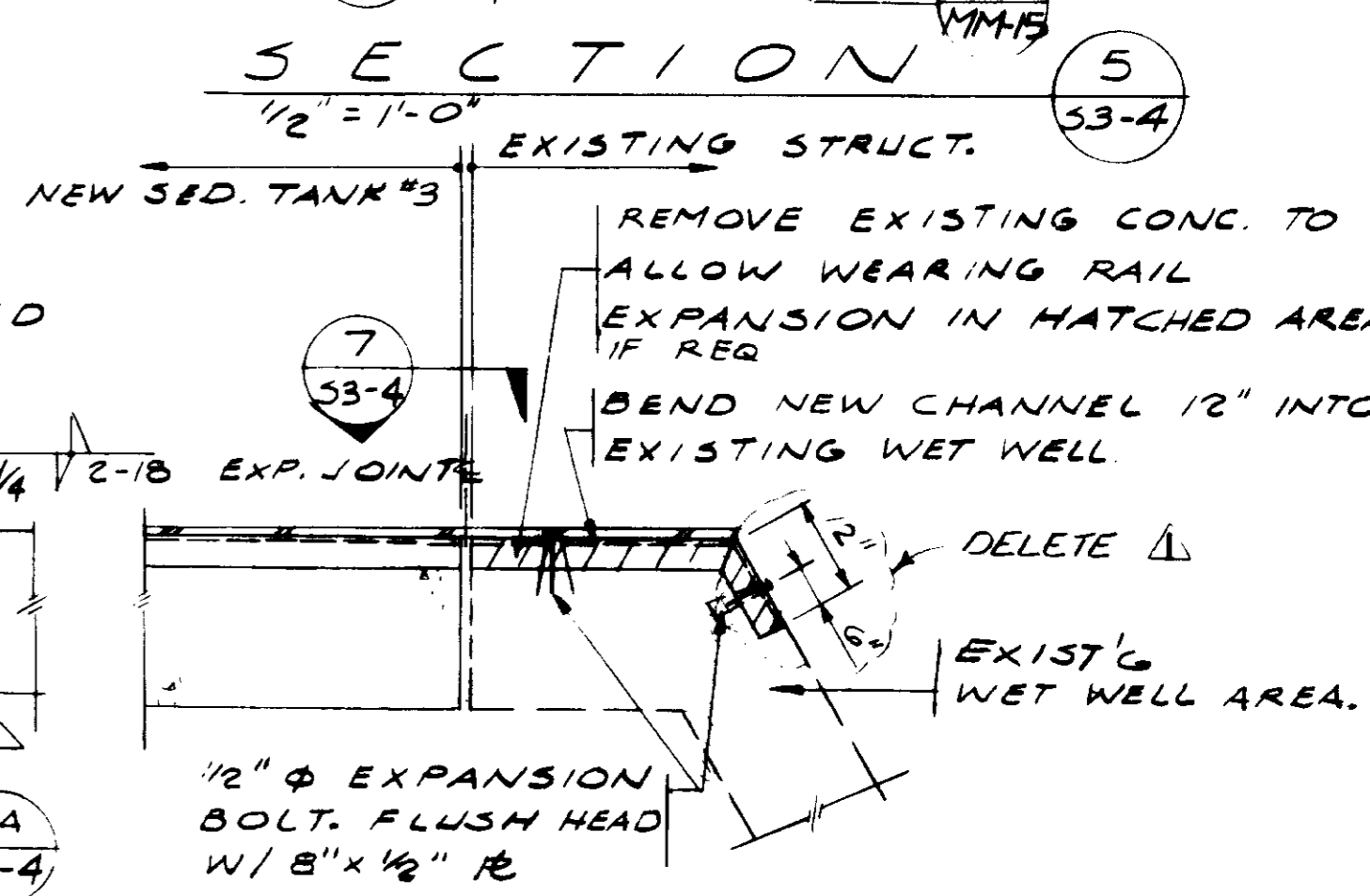
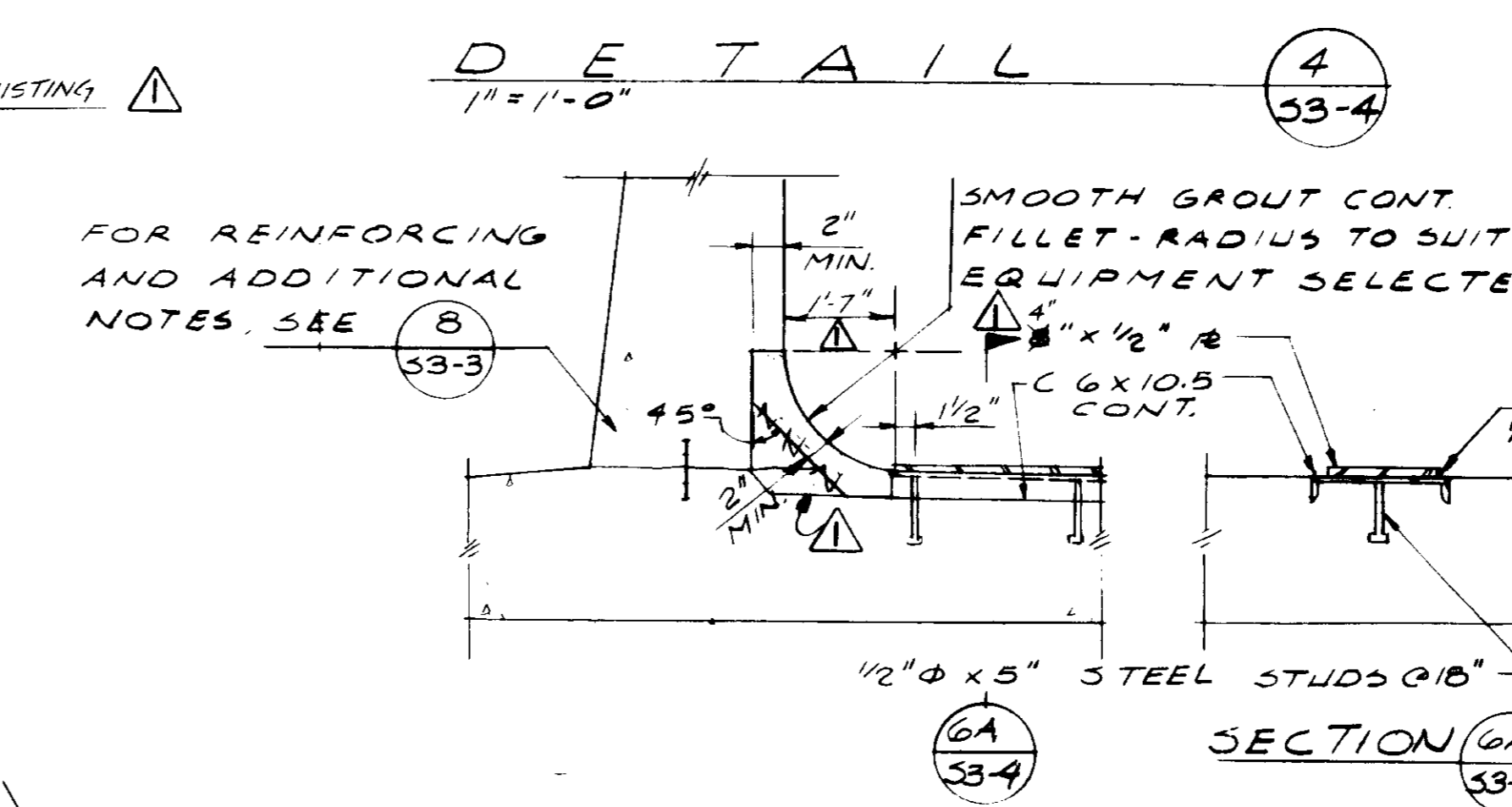
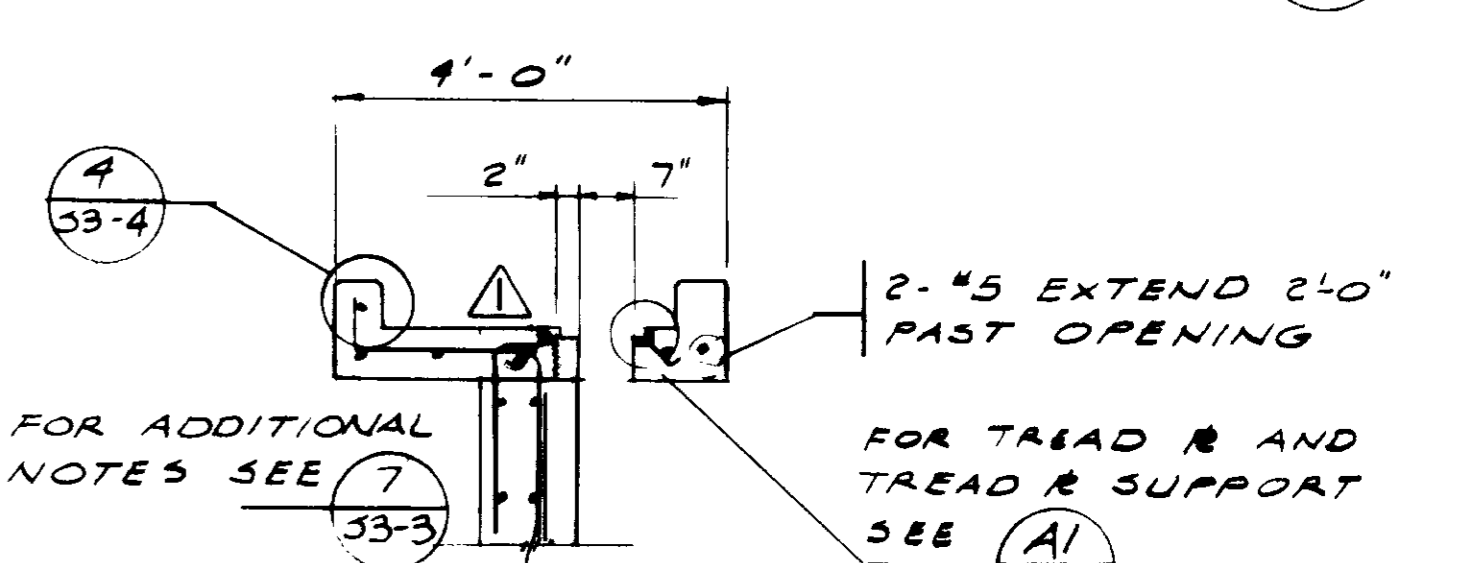
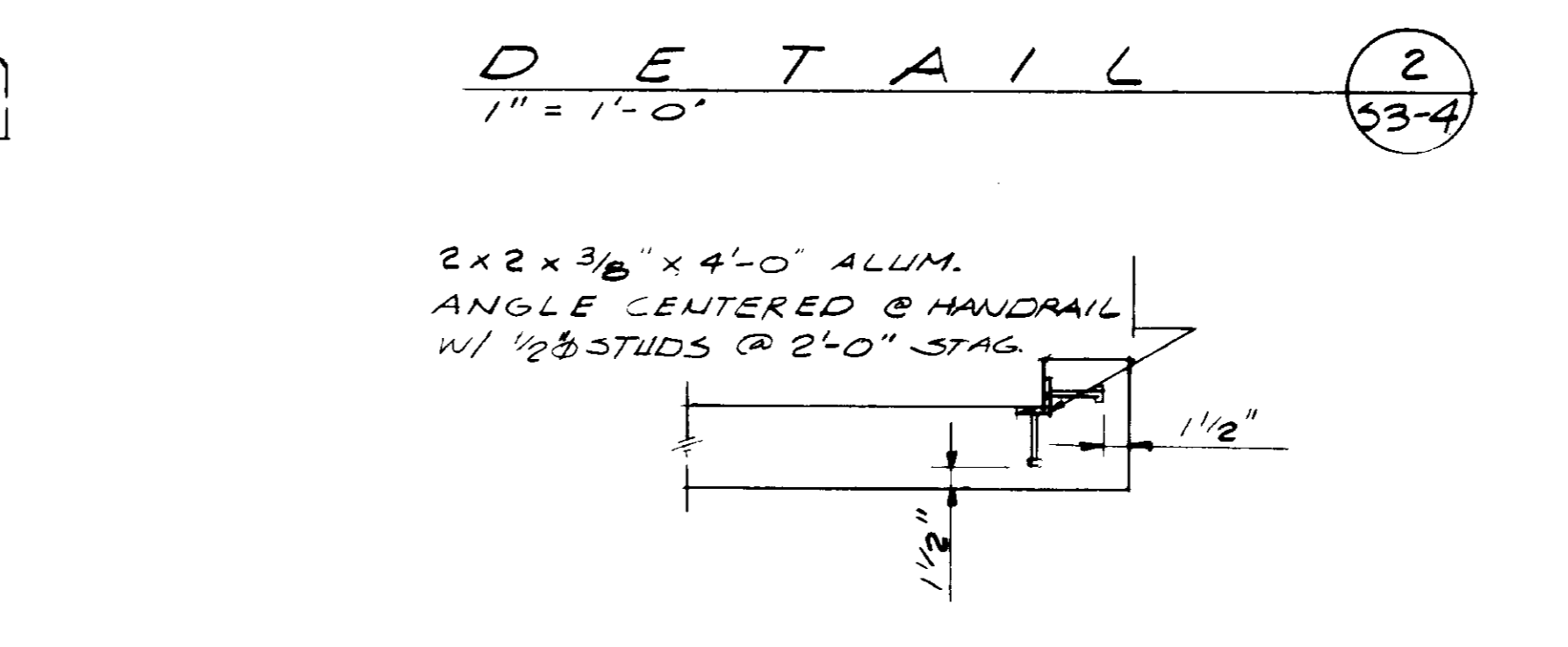
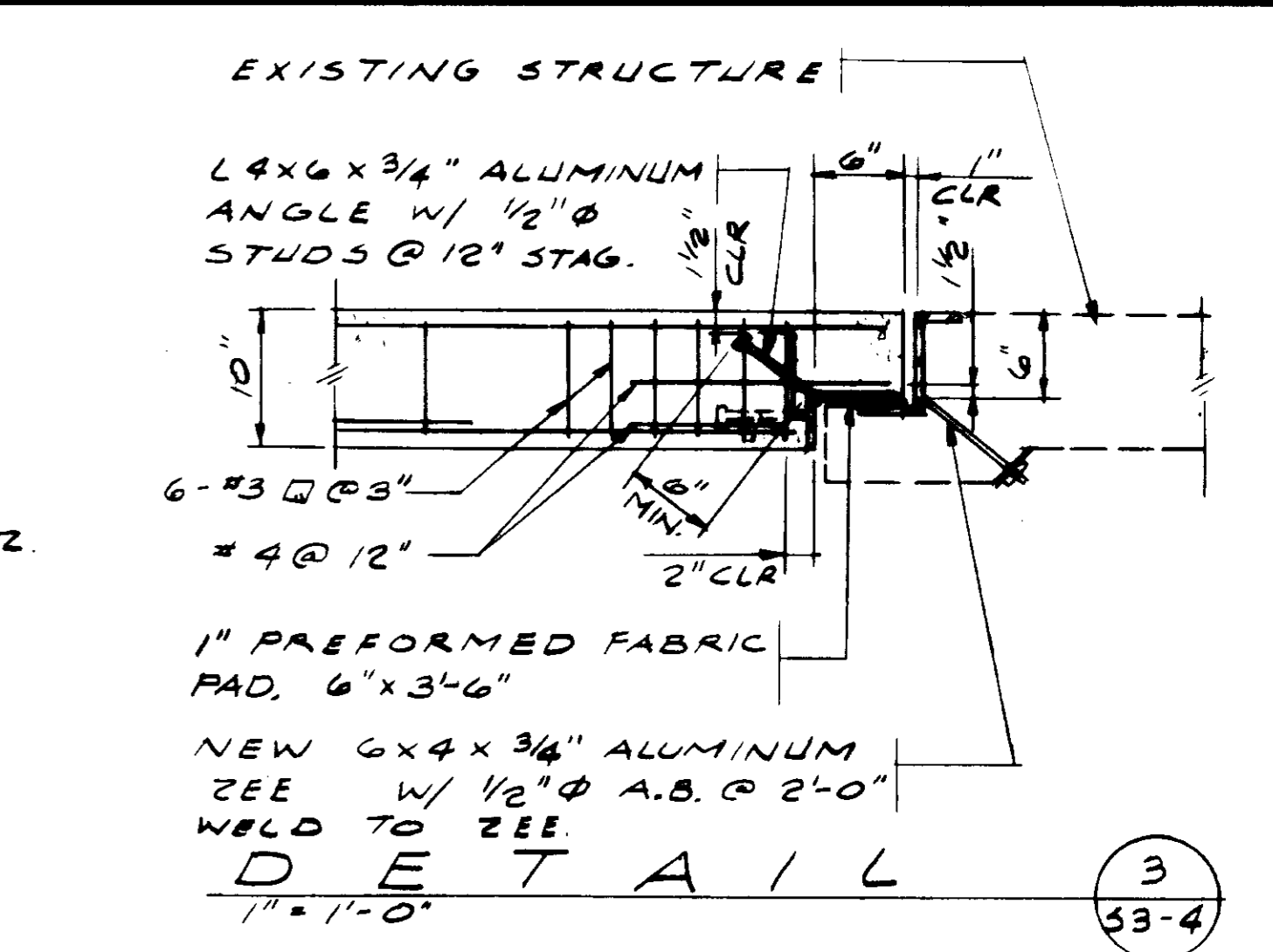
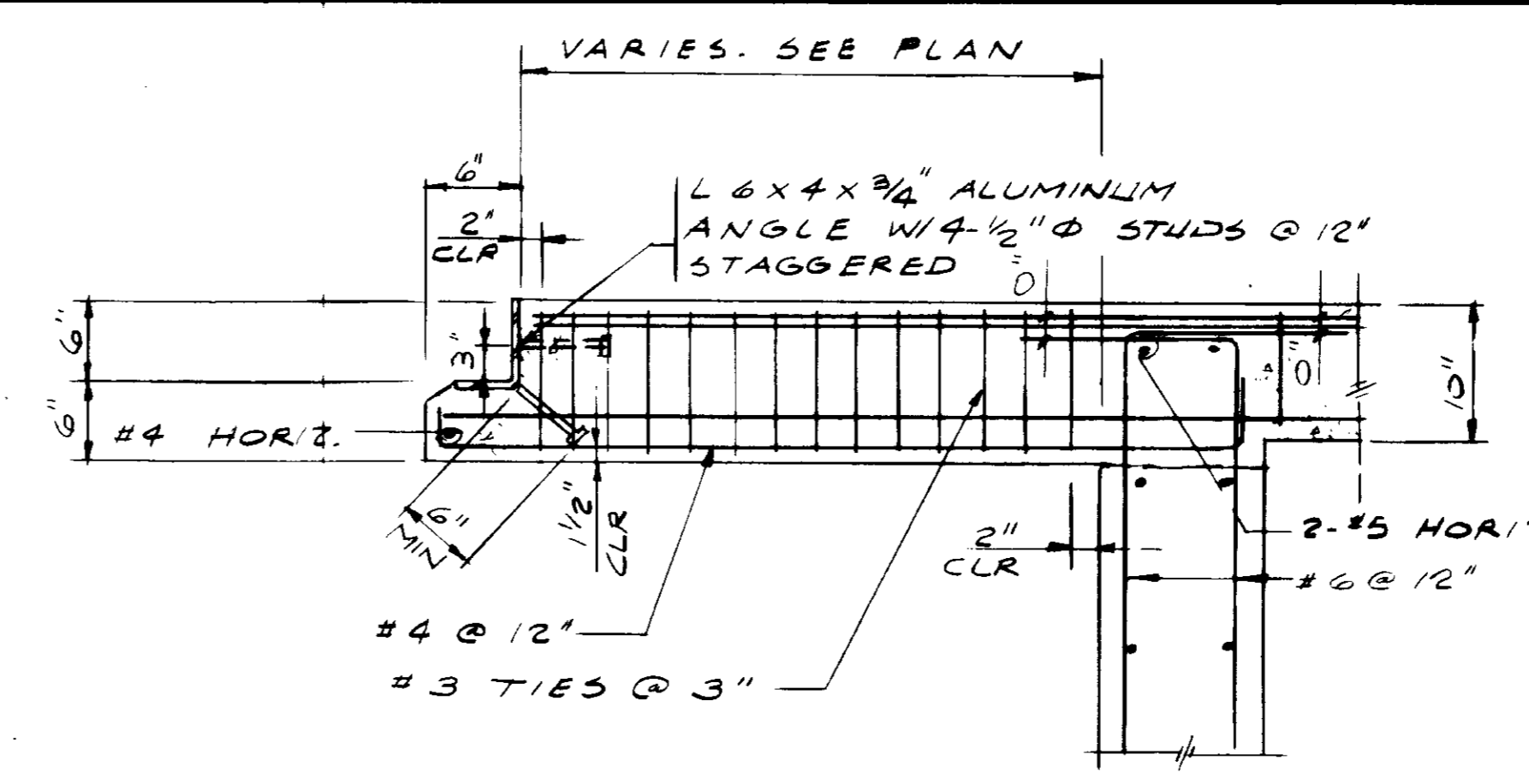
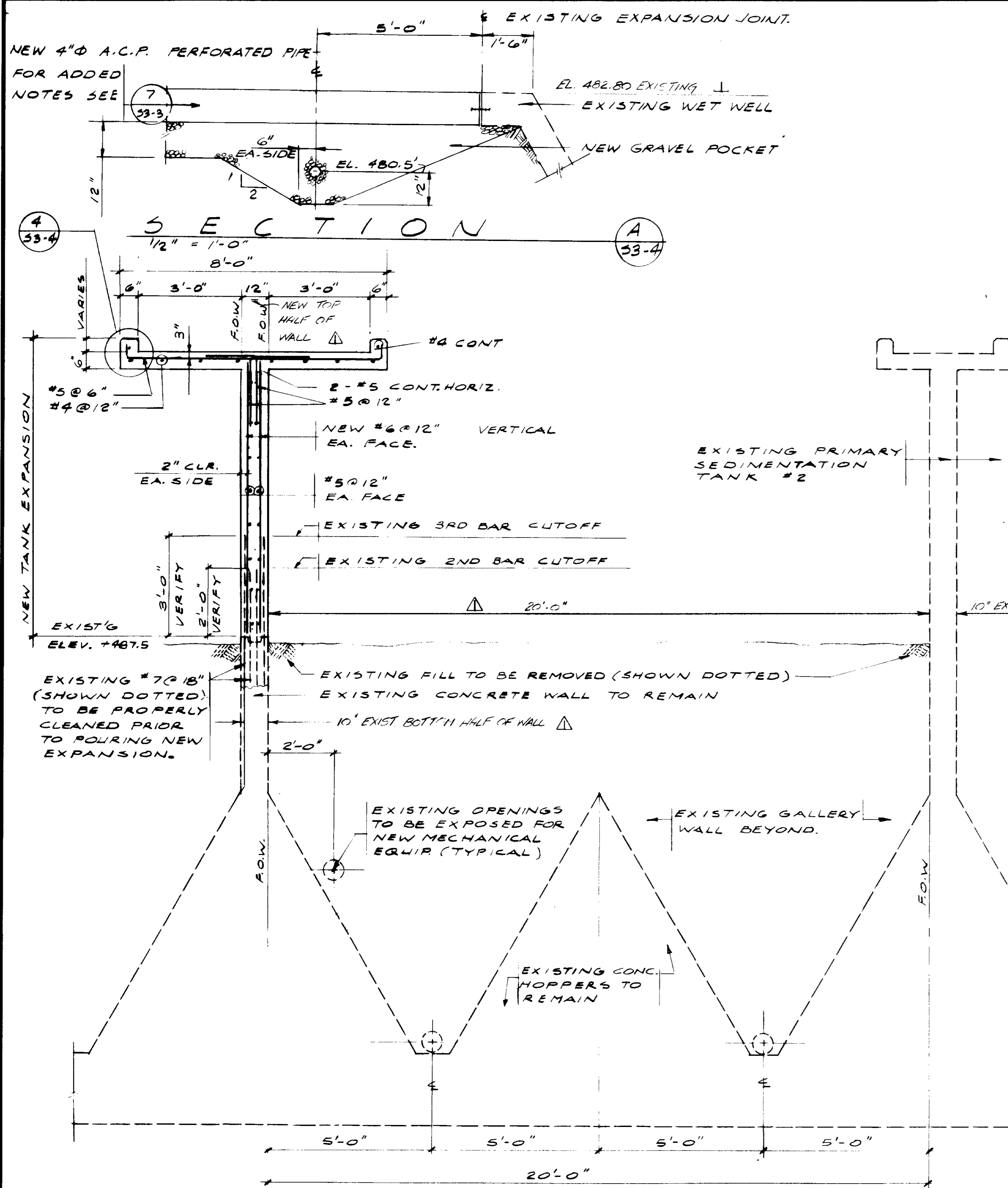
RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

03083

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE: 1/2" = 1'-0"	DESIGNED: M. KRANKER	SUBMITTED: 14038	DATE: 8/15/79
DRAWN: K. RAHMAN	CHECKED: K. RAHMAN	PROJECT MANAGER: <i>[Signature]</i>	R.C.E. NO. DATE: 14884 8/15/79
PROJECT ADMINISTRATOR: <i>[Signature]</i>	R.C.E. NO. DATE: 14884 8/15/79	J&K CONSULTING ENGINEERS A JOINT VENTURE 8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 939-9117	

LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.		SHEET S3-3
PRIMARY SEDIMENTATION TANK SECTIONS & DETAILS		



SECTION 1 1/2" = 1'-0" (1)

NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.

DETAIL 7 1" = 1'-0" (7)

WEARING RAIL & EXPANSION JOINT IN PLAN

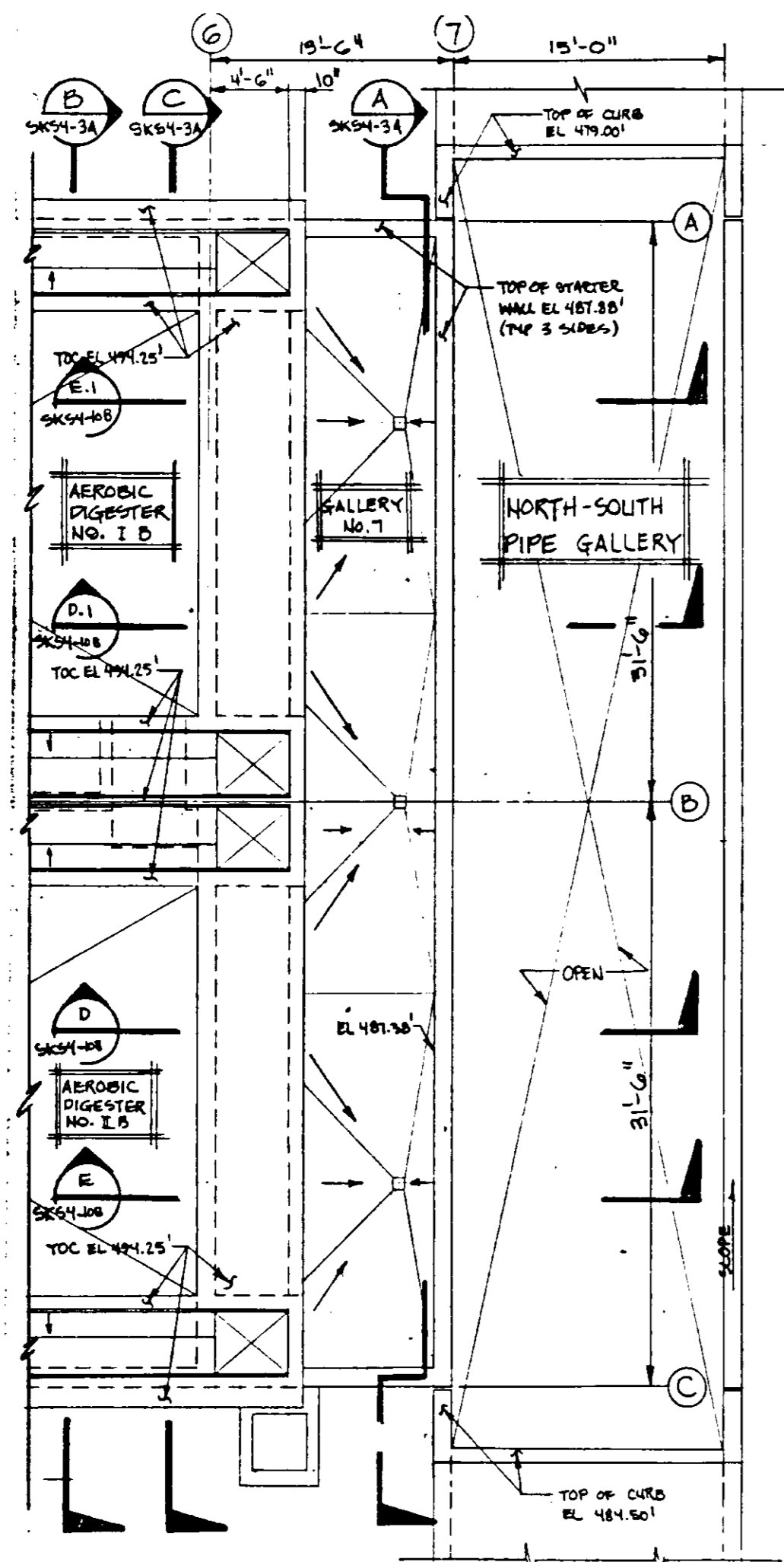
NOTES:
 1. SEE 53-1 FOR ADDITIONAL NOTES.
 2. ANGLE INSTALLED AS PER PLL-C5-9

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
 RCE 14098
 March 1985

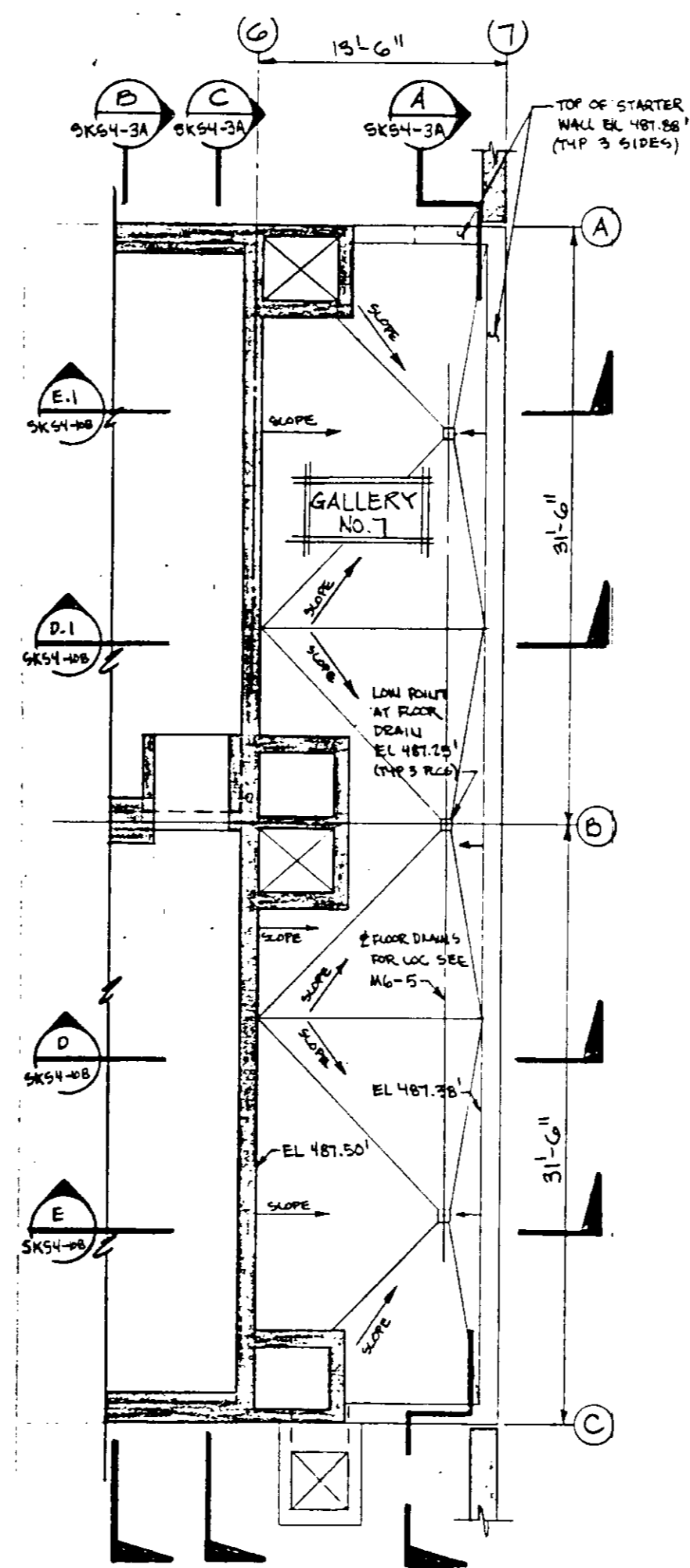
GRAPHIC SCALES
 1" = 1'-0" scale
 1/2" = 1'-0" scale

DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

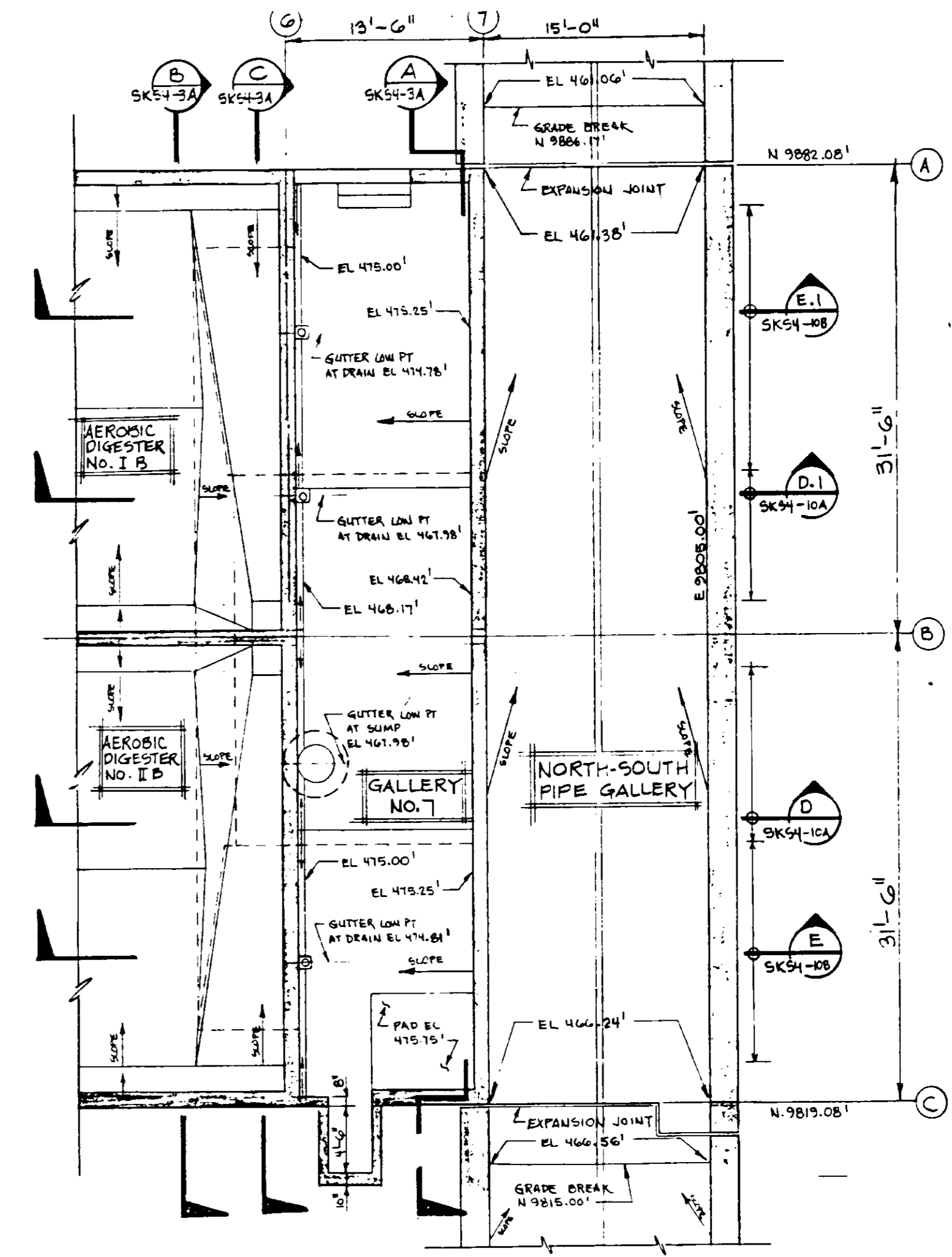
DESIGNED M. KRÄKNER	PROJECT MANAGER K. KATHIMAN	SCALE: 1/2" = 1'-0"	DATE 8/15/79		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. PRIMARY SEDIMENTATION TANK SECTIONS & DETAILS	SHEET S3-4
CHECKED K. KATHIMAN	PROJECT ADMINISTRATOR K. KATHIMAN	DATE 8/15/79	DATE 8/15/79			



TOP PLAN
 REFERENCE DRAWING: SKS4-1A
 PLAN CLARIFICATION: PCL-C5-2



PARTIAL PLAN AT EL. 487.50
 REFERENCE DRAWING: SKS4-1A
 PLAN CLARIFICATION: PCL-C5-8



FOUNDATION PLAN
 REFERENCE DRAWING: SKS4-1A
 PLAN CLARIFICATION: PCL-C5-8

03086

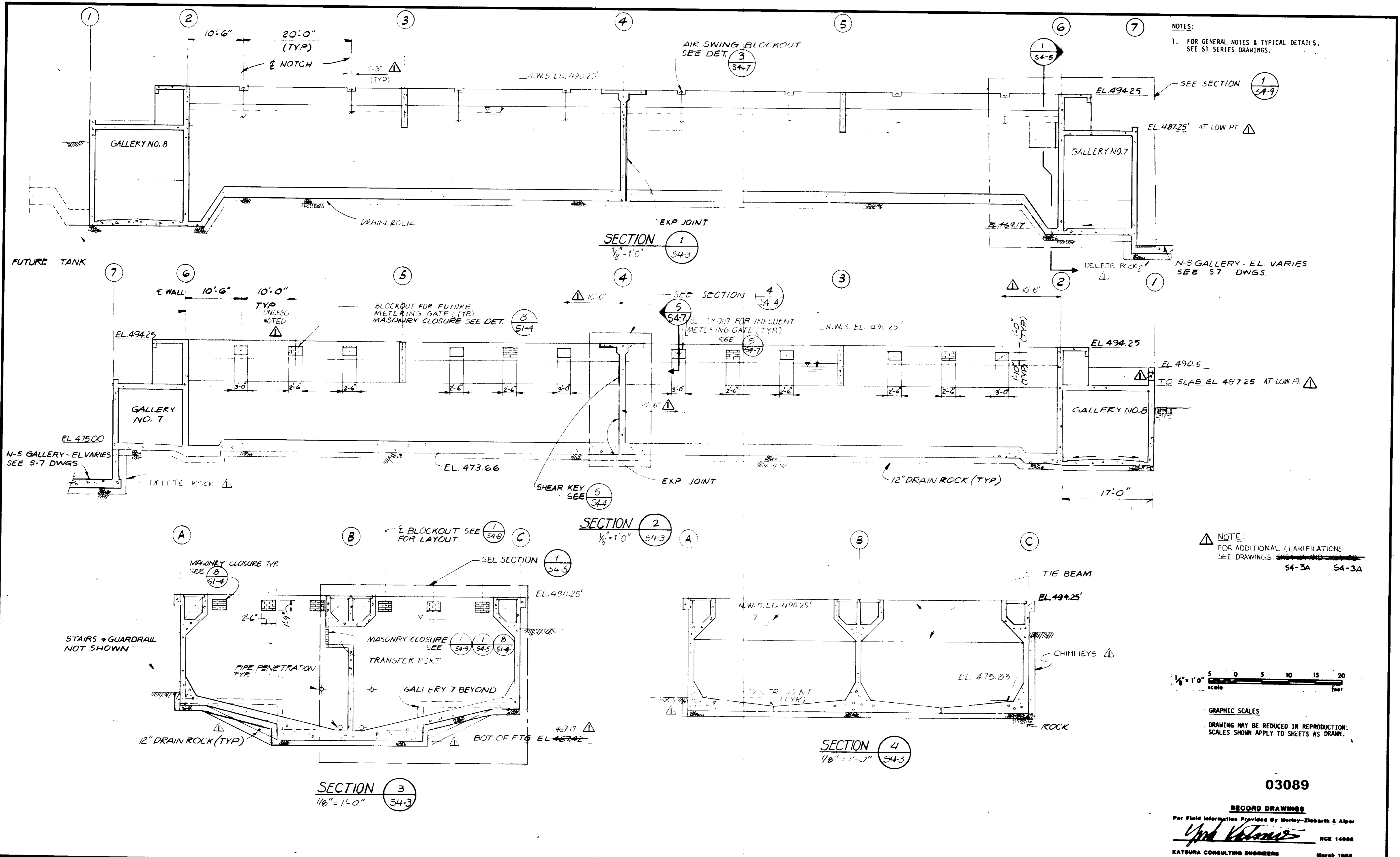
RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper


 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985

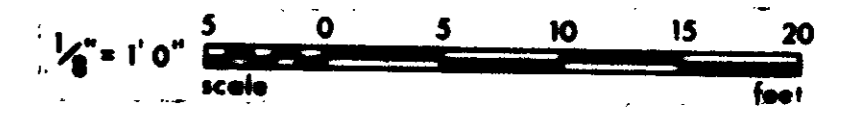
AEROBIC DIGESTER TANKS - PLANS, GALLERY NO. 7

SHEET
 S4-1A



NOTES:
 1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.

NOTE:
 FOR ADDITIONAL CLARIFICATIONS, SEE DRAWINGS ~~S4-3A AND S4-3B~~ S4-3A S4-3A



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03089

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh K. Kwon RCE 14888
 KATOURA CONSULTING ENGINEERS March 1988

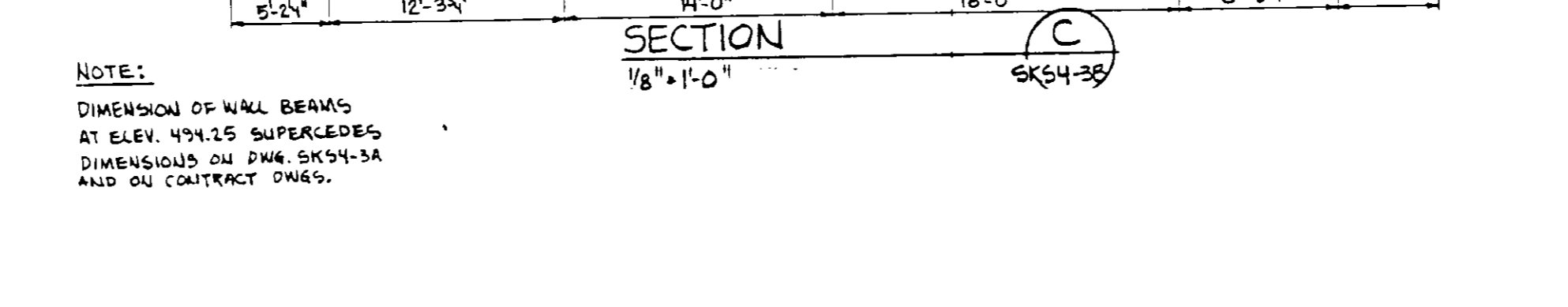
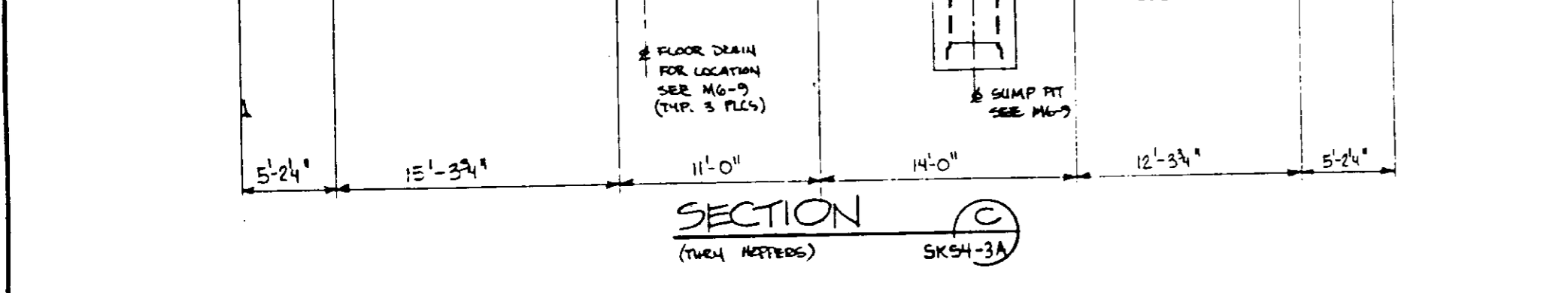
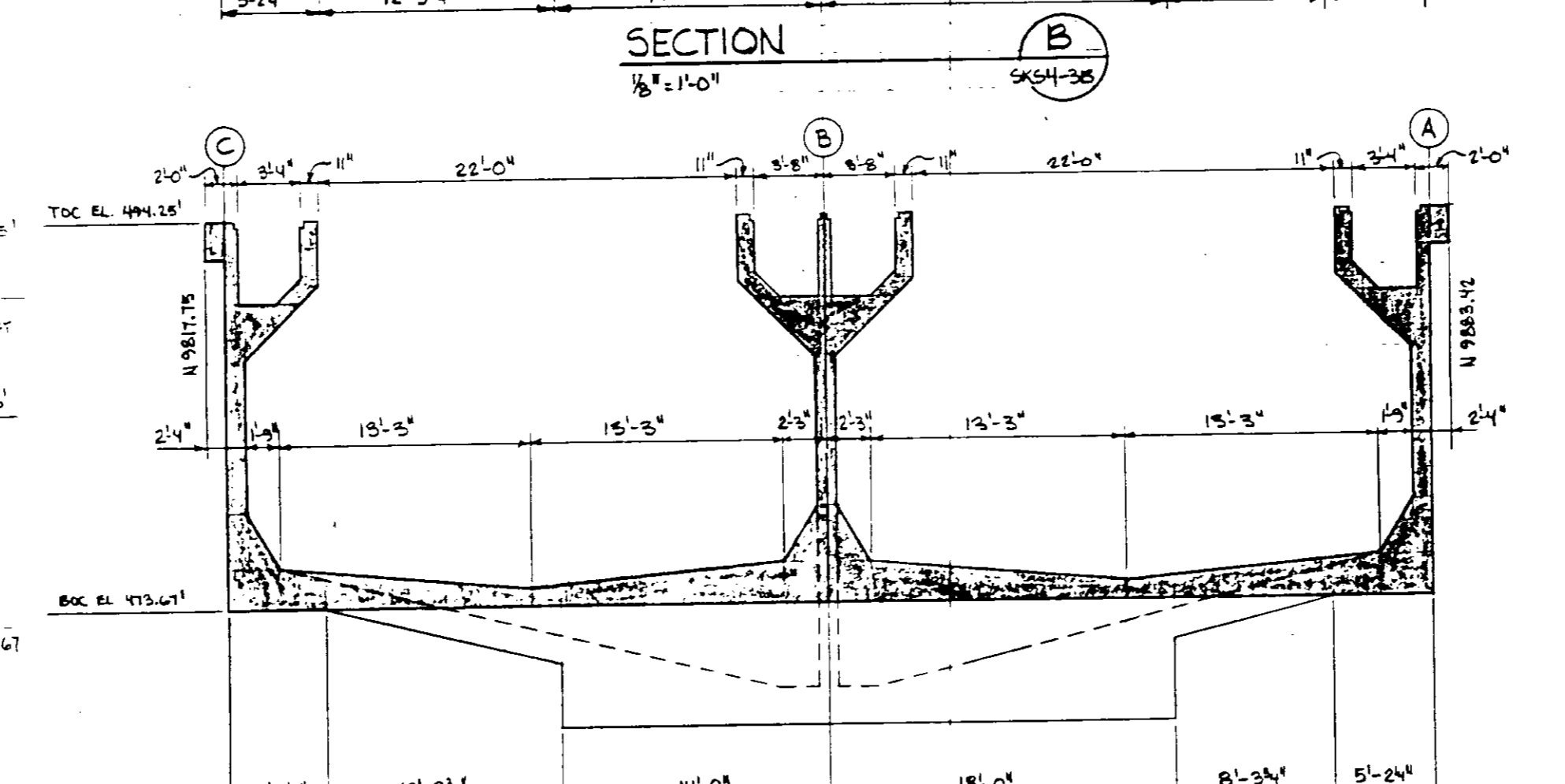
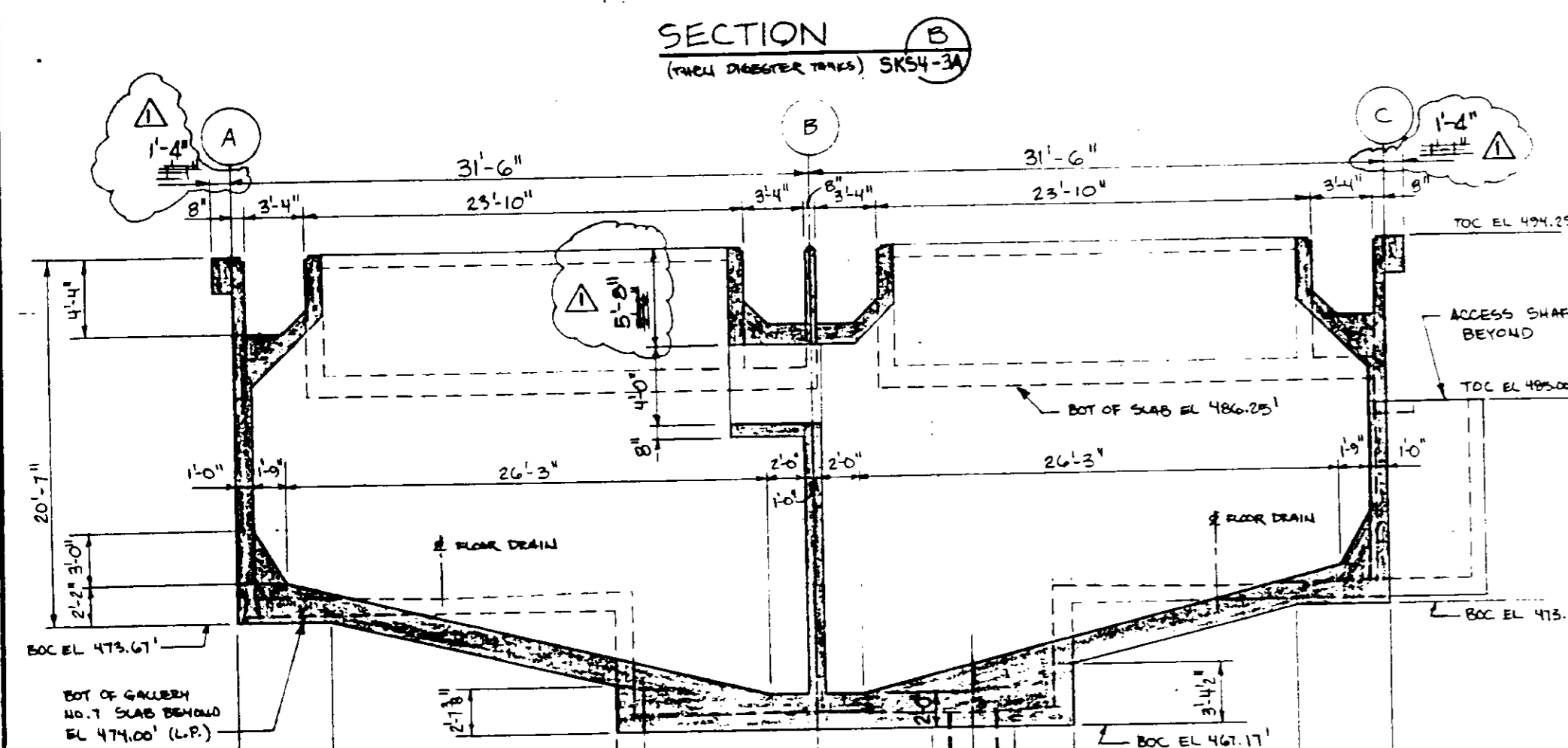
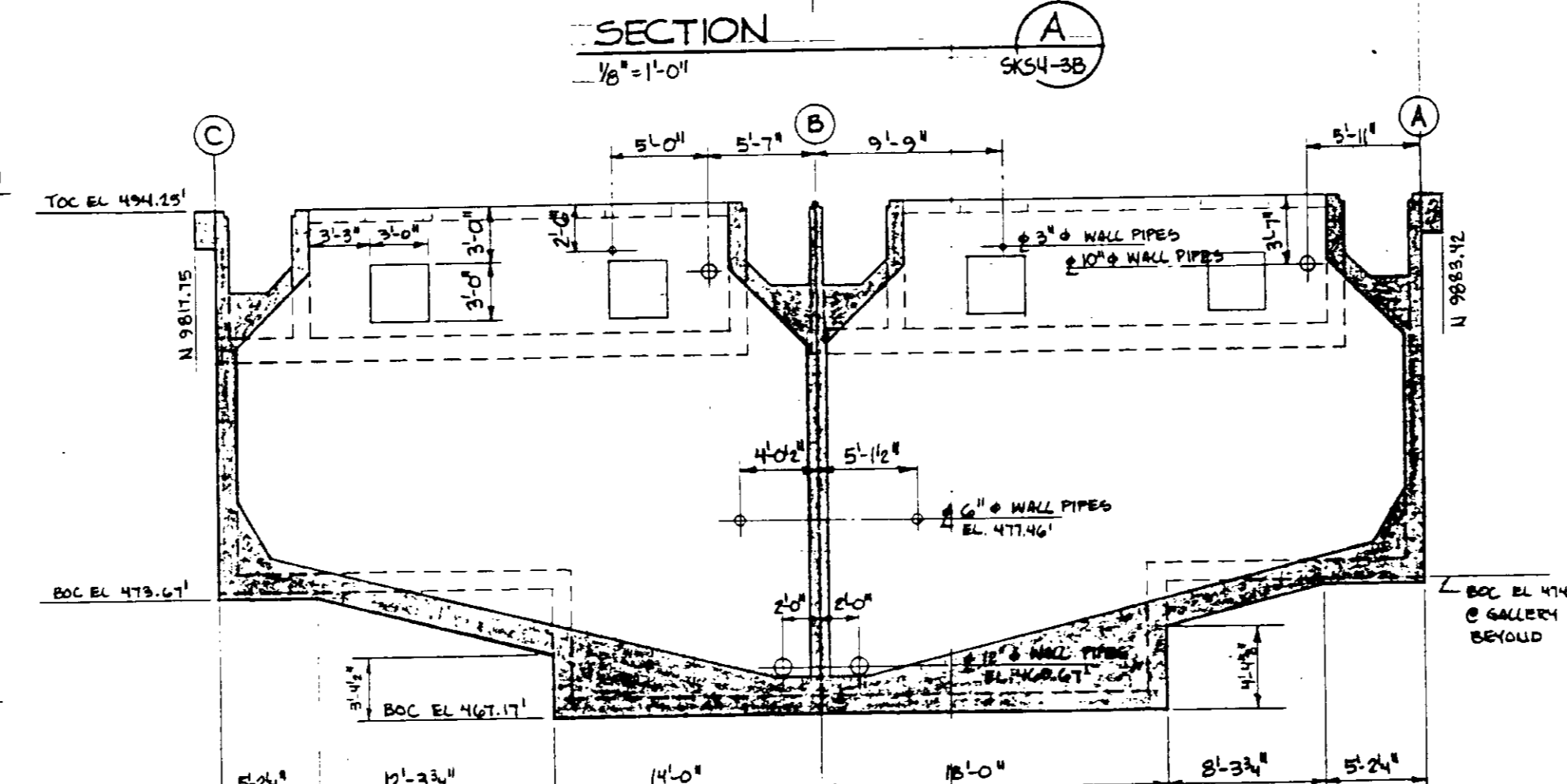
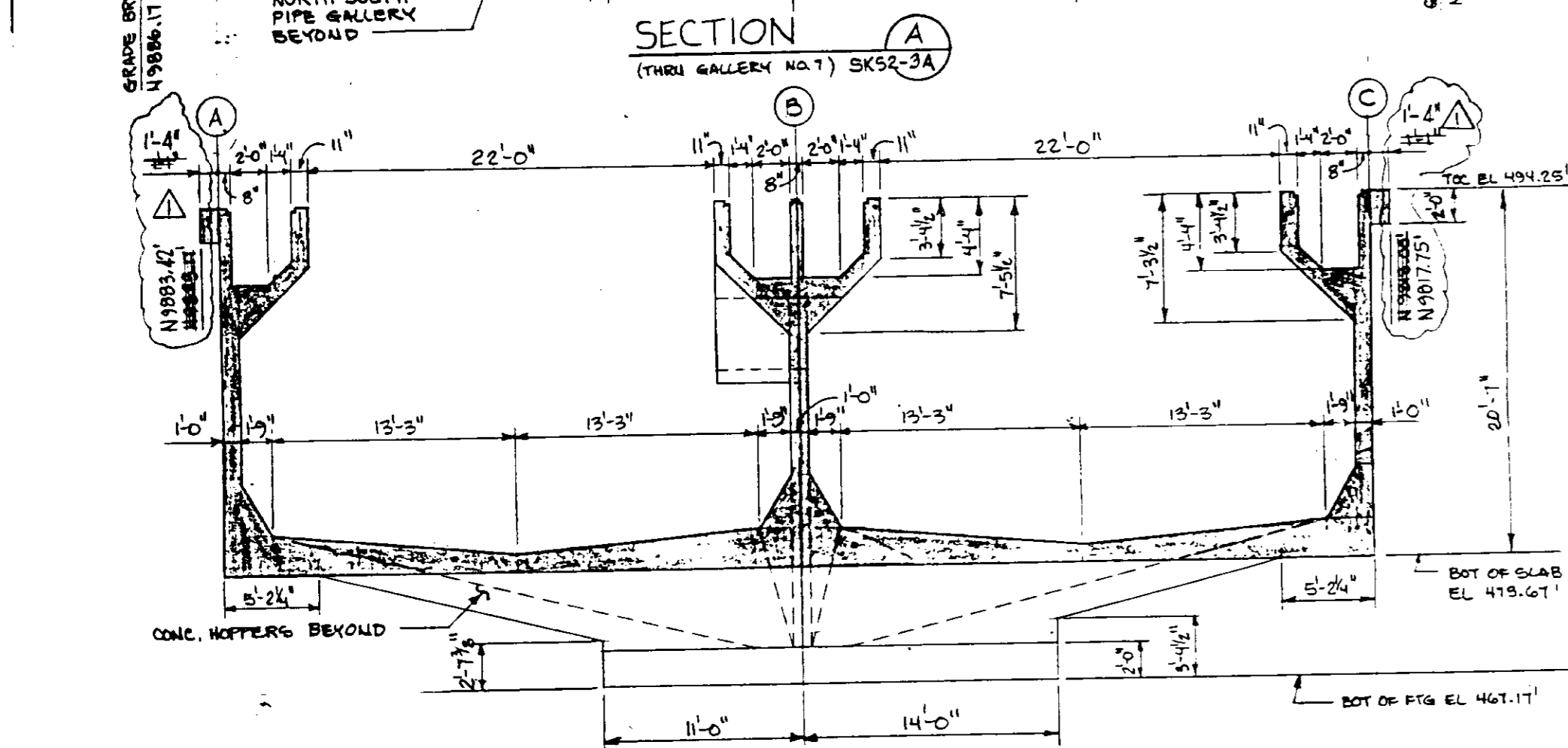
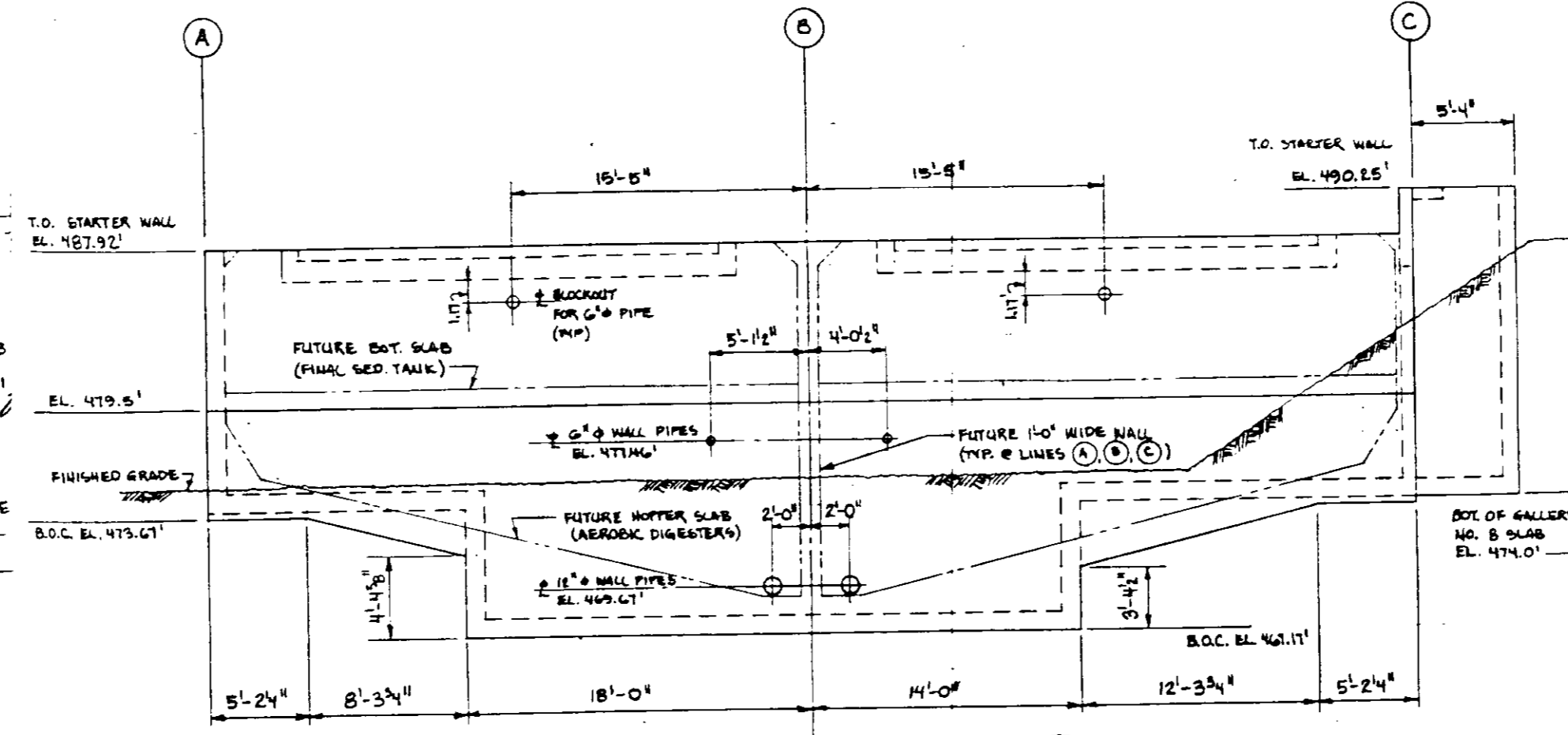
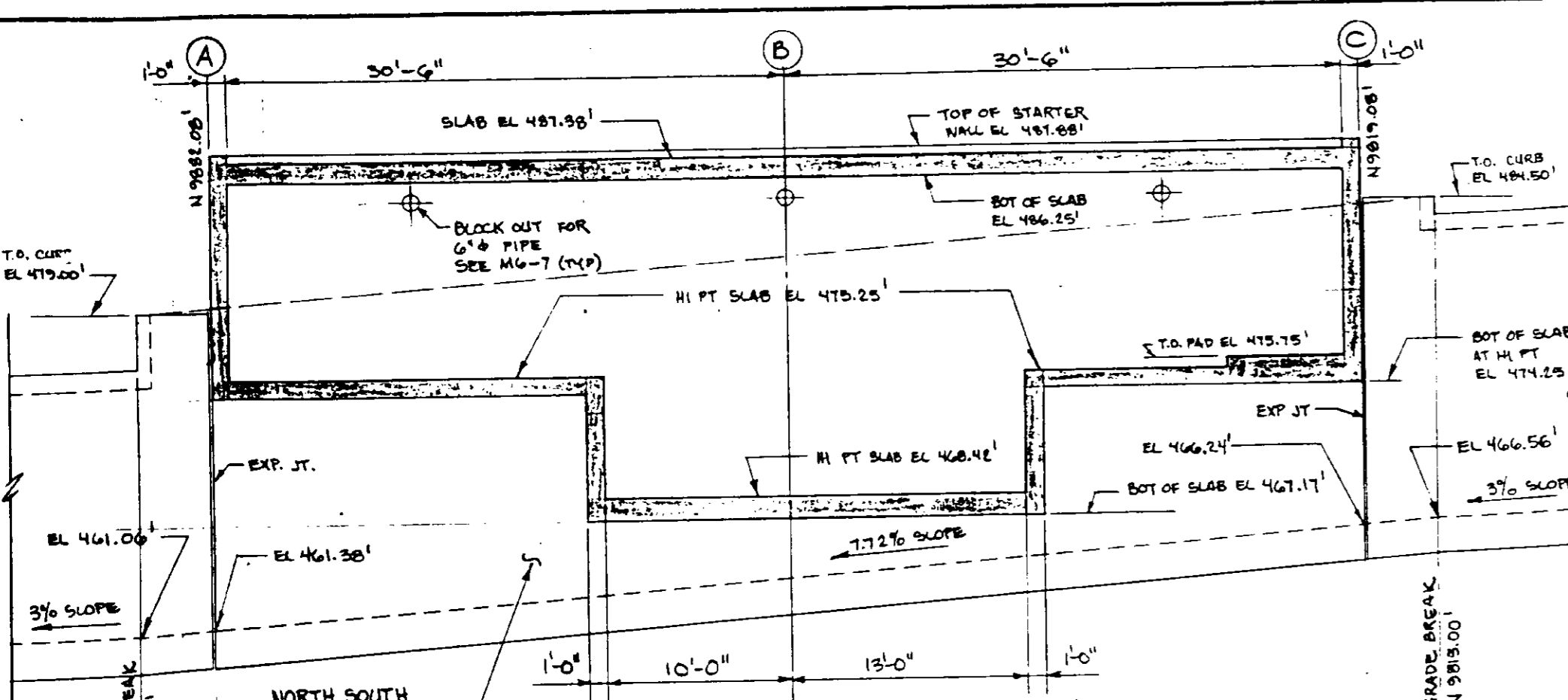
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE : AS SHOWN	DESIGNED AS	DRAWN K.A.	CHECKED ARP
SUBMITTAL <i>Yuh K. Kwon</i>	14038 11-5-79	PROJECT MANAGER R.C.E. NO. DATE	
PROJECT ADMINISTRATOR <i>Scott A. Kwon</i>	14884 11-5-79	R.C.E. NO. DATE	

JKK CONSULTING ENGINEERS
 A JOINT VENTURE
 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 833-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 AEROBIC DIGESTER TANKS - GENERAL SECTIONS

SHEET
S4-3



NOTE:
DIMENSION OF WALL BEAMS
AT ELEV. 494.25 SUPERCEDES
DIMENSIONS ON DWG. SK54-3A
AND ON CONTRACT DWGS.

REFERENCE DRAWING: SK54-3A
PLAN CLARIFICATION: PCL-C5-8

REFERENCE DRAWING: SK54-3B
PLAN CLARIFICATION: PCL-C5-35

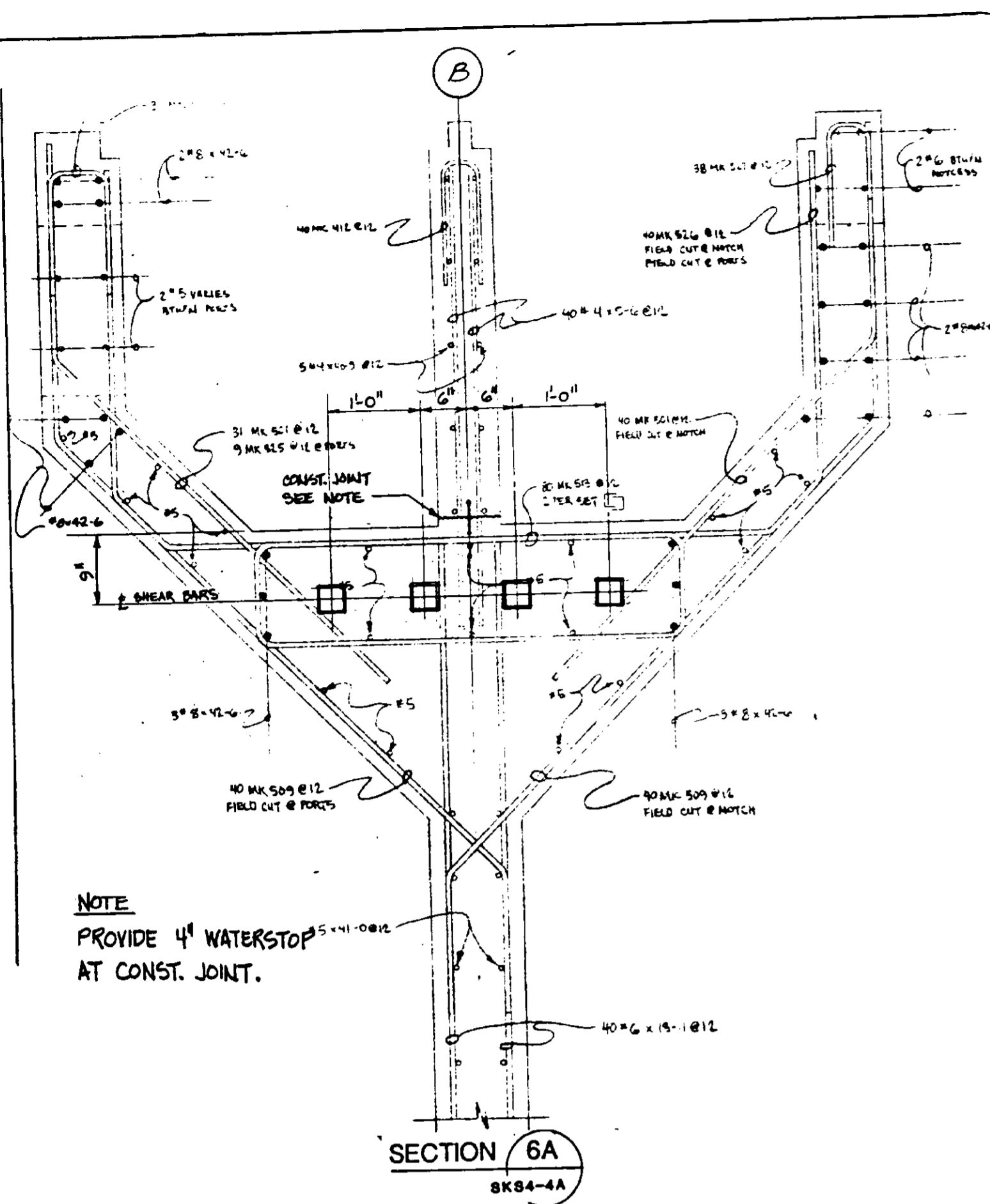
03090

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yosh Katsura
KATSURA CONSULTING ENGINEERS RCE 14038
March 1985

AEROBIC DIGESTER TANKS - SECTIONS

SHEET
S4-3A

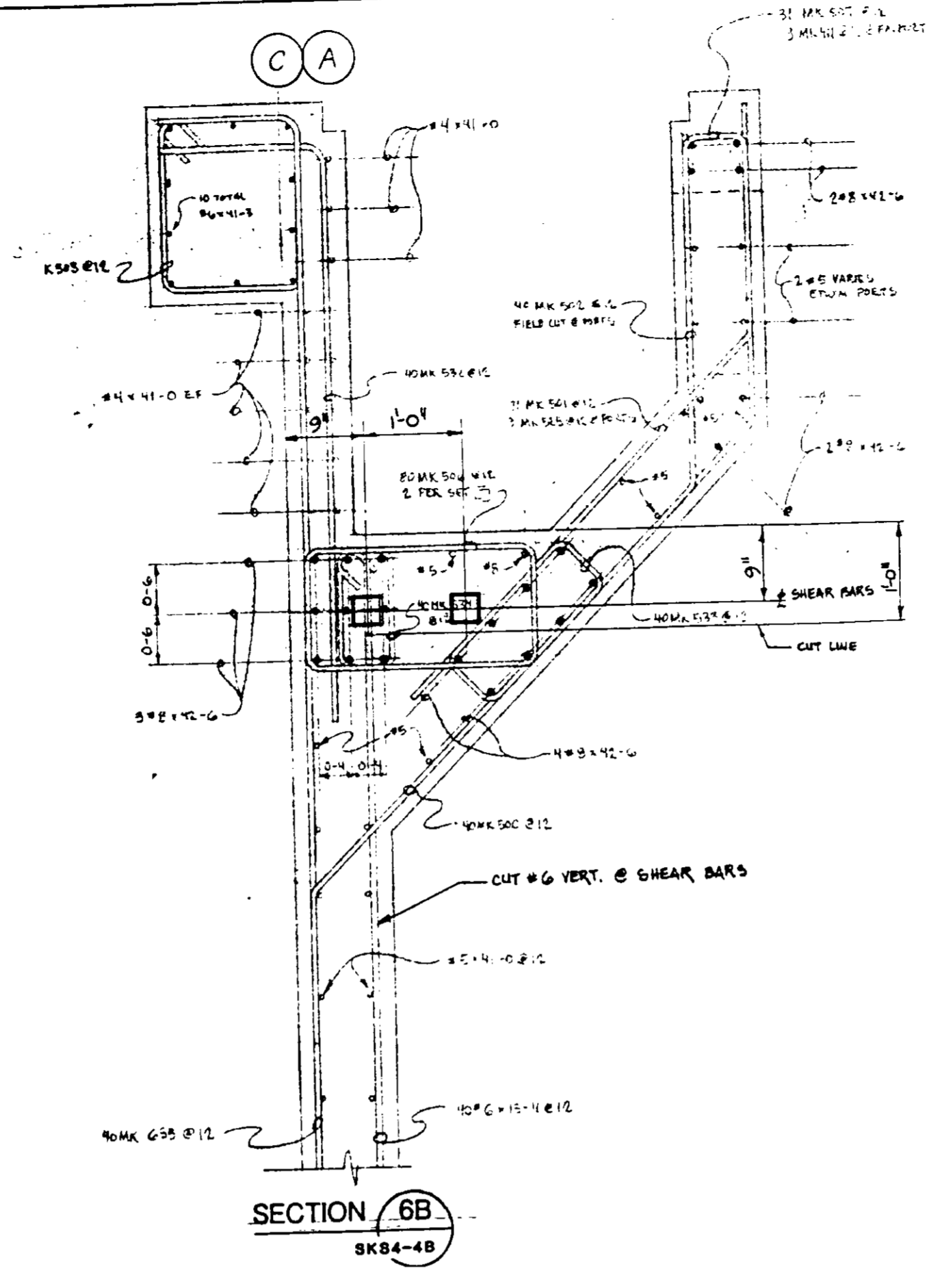
SHT. 17 OF 19



NOTE
PROVIDE 4" WATERSTOP
AT CONST. JOINT.

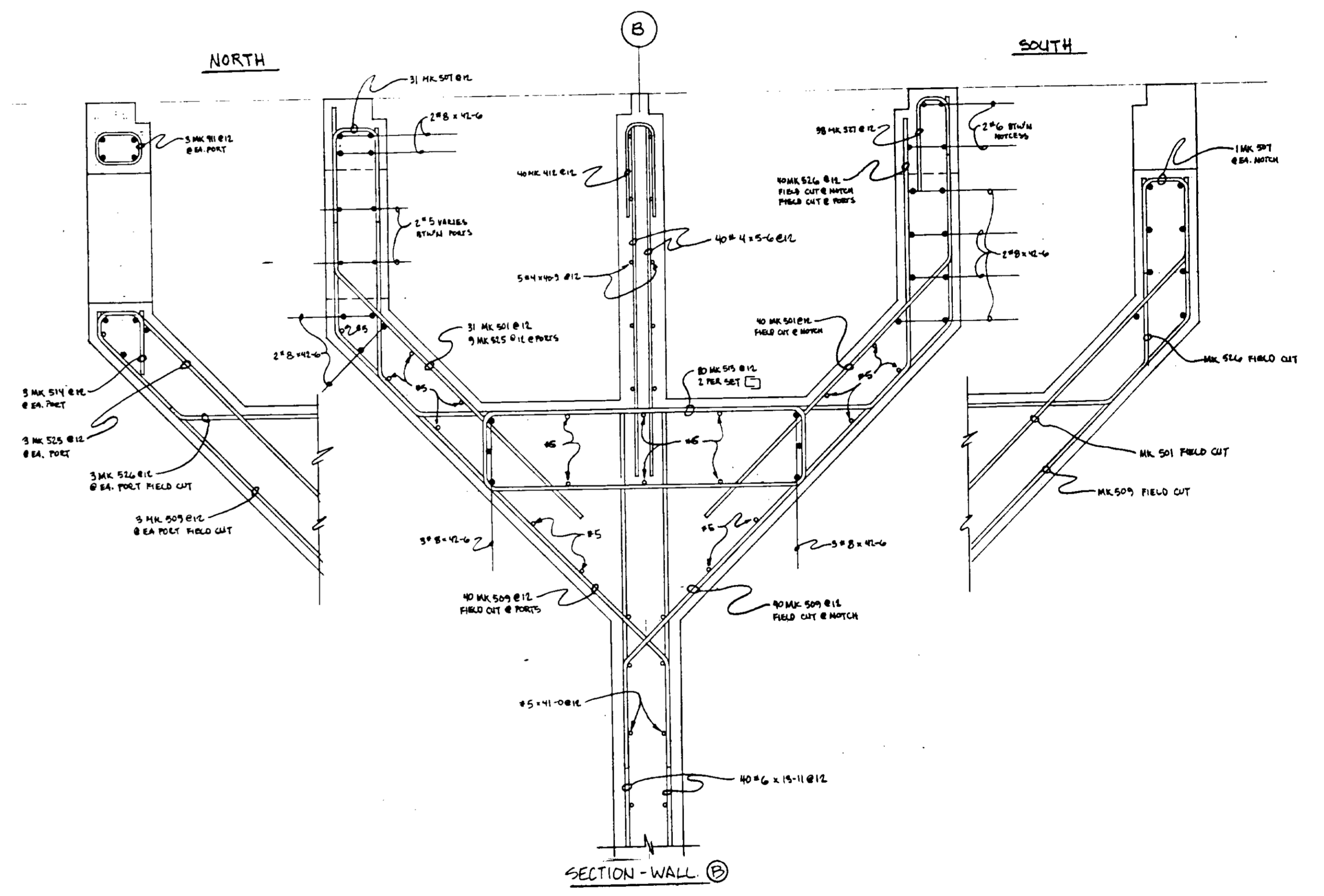
SECTION 6A
SK84-4A

REFERENCE DRAWING: SKS4-4A
PLAN CLARIFICATION: PCL-C5-25



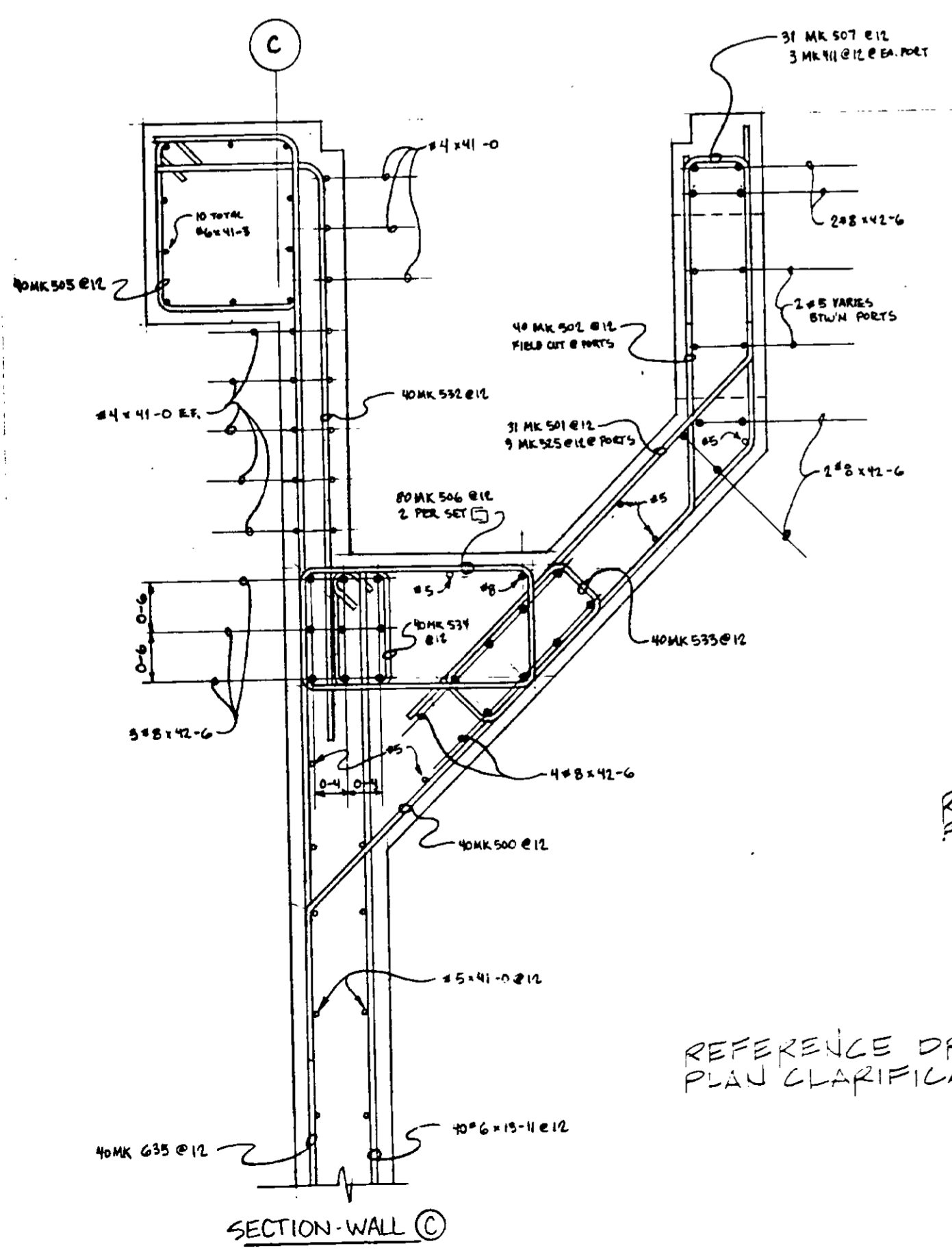
SECTION 6B
SK84-4B

REFERENCE DRAWING: SKS4-4B
PLAN CLARIFICATION: PCL-C5-25



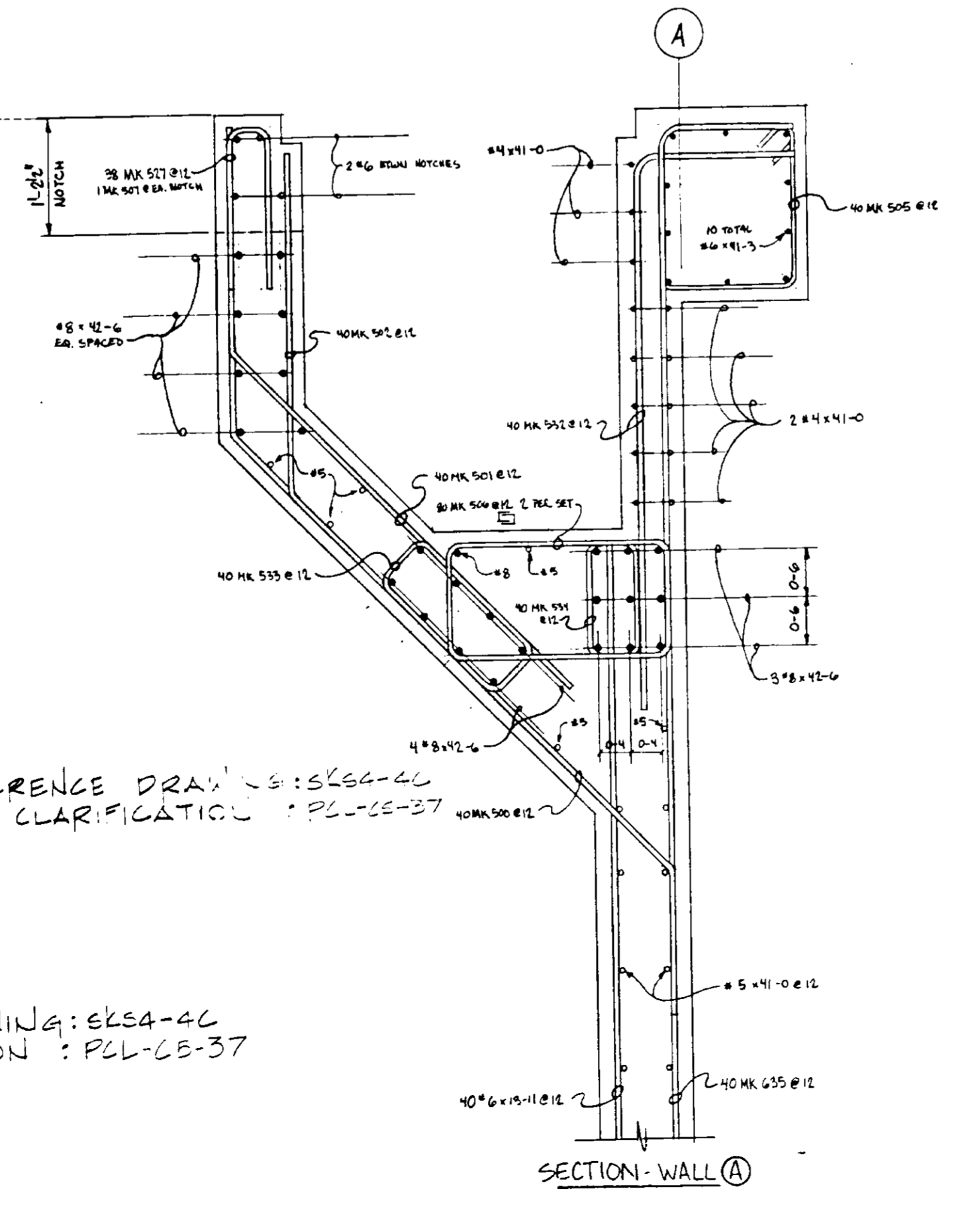
SECTION - WALL B

REFERENCE DRAWING: SKS4-4D
PLAN CLARIFICATION: PCL-C5-25



SECTION - WALL C

REFERENCE DRAWING: SKS4-4C
PLAN CLARIFICATION: PCL-C5-37



SECTION - WALL A

AEROBIC DIGESTER TANKS- SECTIONS

03092

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

Ymk Katsura

RCE 14038

KATSURA CONSULTING ENGINEERS

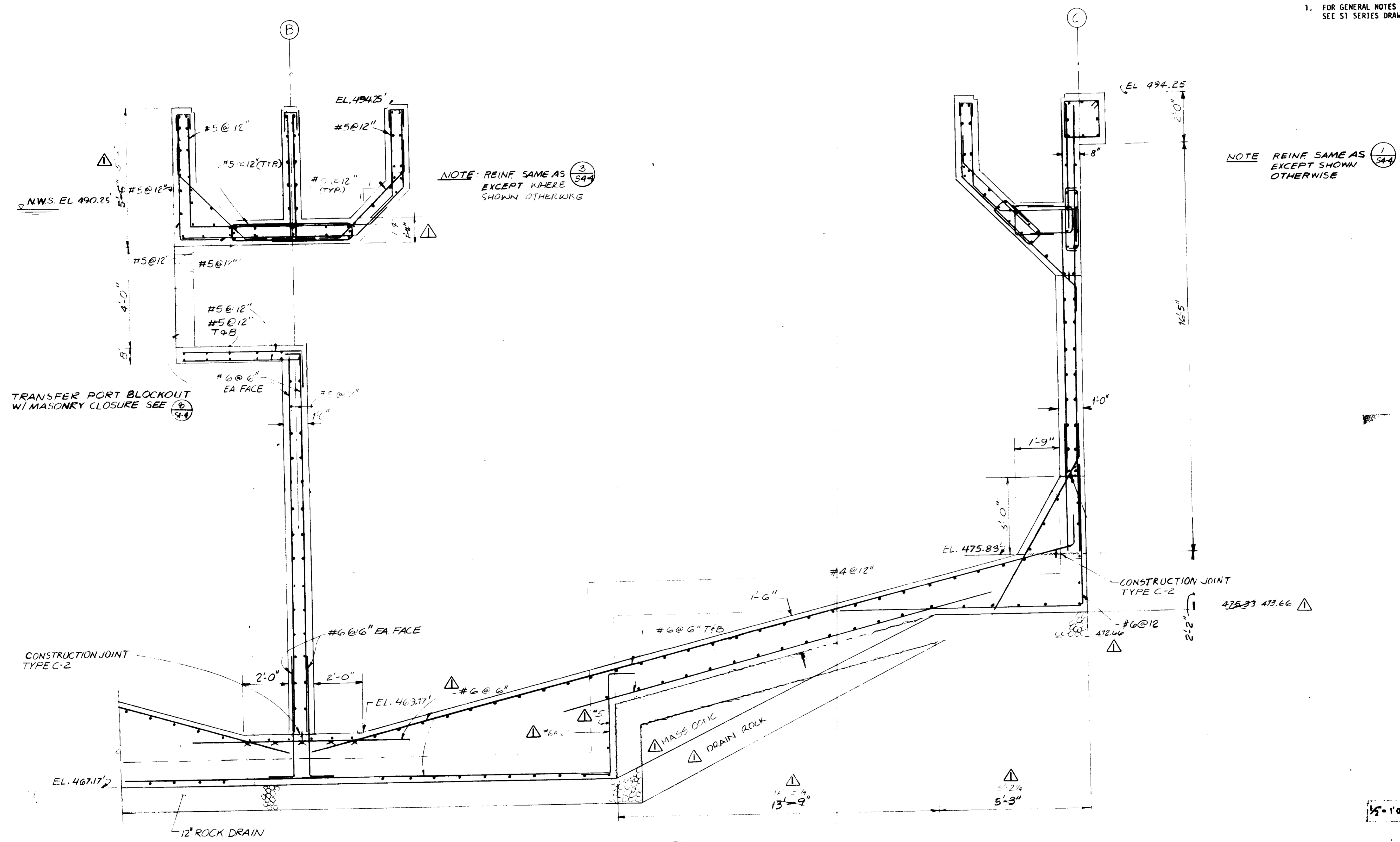
March 1986

SHEET

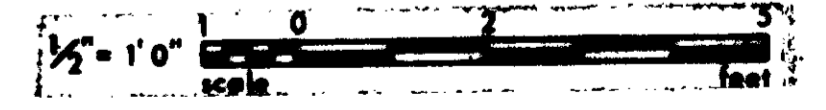
S4-4A

Sup. 19 rev. 19

NOTES:
 1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.



SECTION 1
 1/2" = 1'-0" (3/54-5)



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. K. Katsura
 KATSURA CONSULTING ENGINEERS
 ROE 14088
 March 1988

03093

REV	DATE	BY	DESCRIPTION

SCALE:	AS SHOWN
DESIGNED	AS
DRAWN	R.K. AGGARWAL
CHECKED	ARP

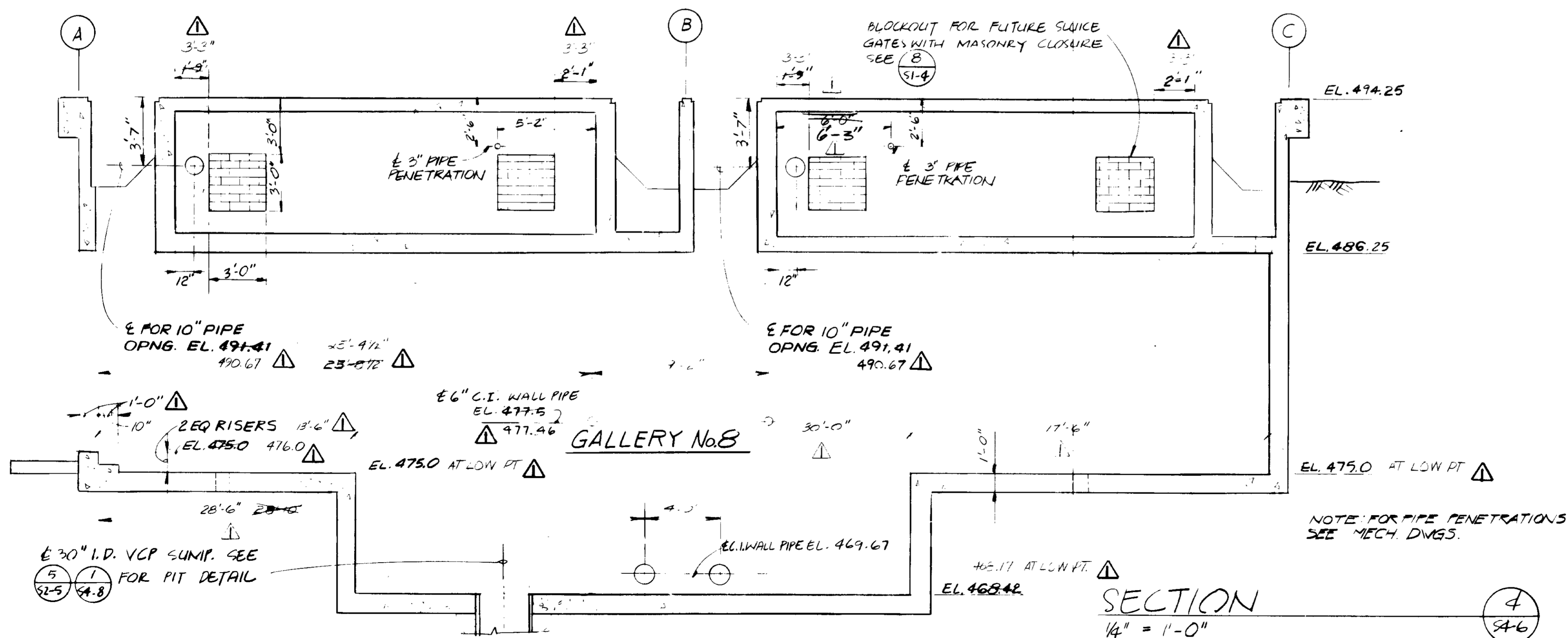
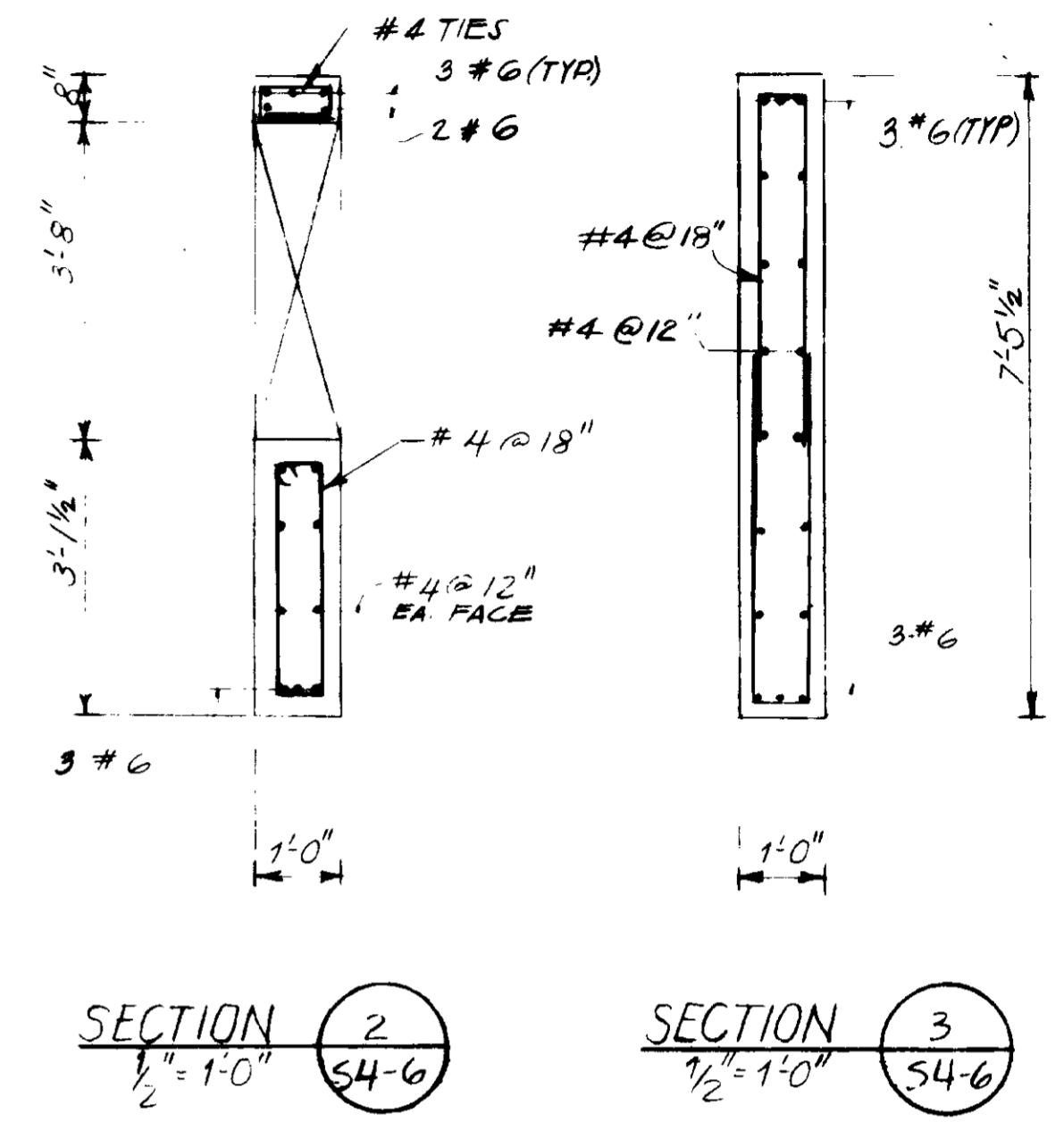
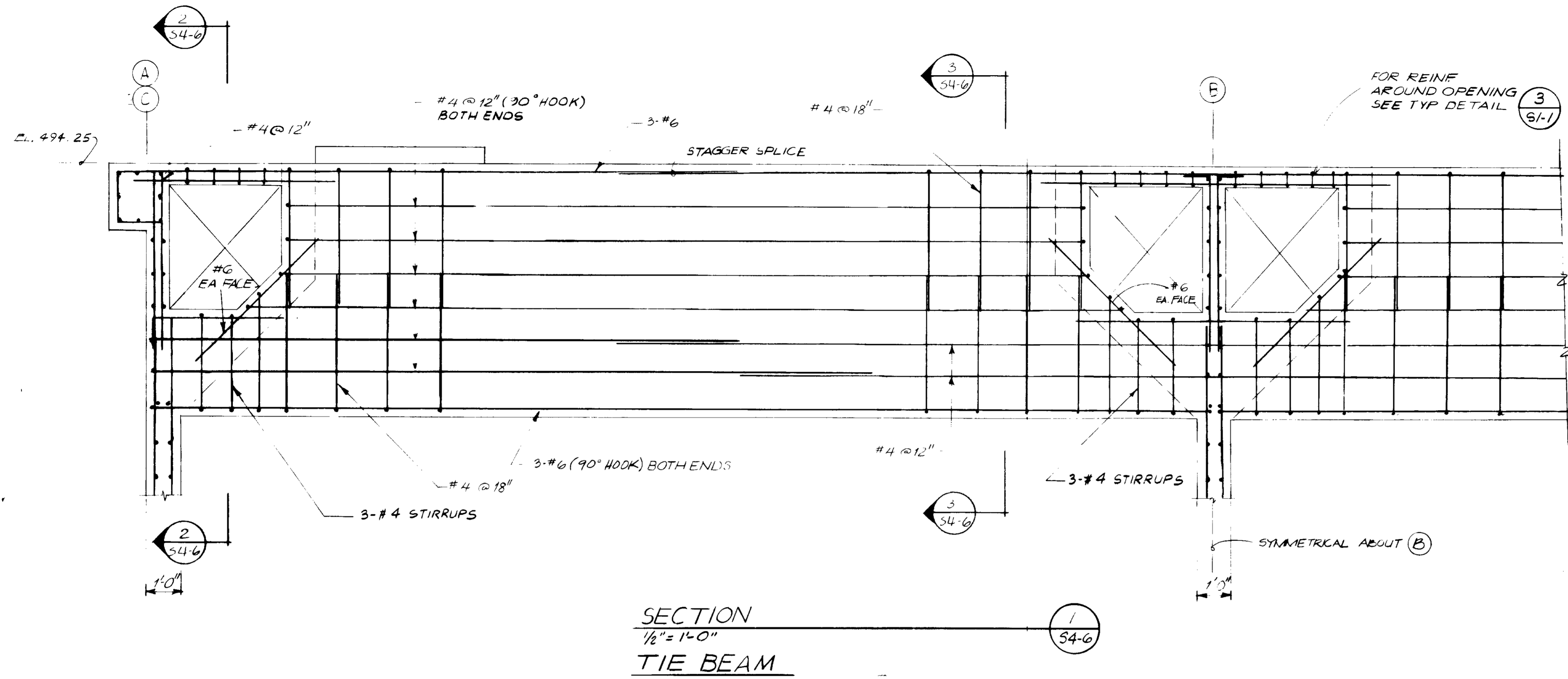
SUBMITTED BY	<i>[Signature]</i>	14038	11-5-79
PROJECT MANAGER	<i>[Signature]</i>	R.C.E. NO.	DATE
PROJECT ADMINISTRATOR	<i>[Signature]</i>	14804	11-5-79
		R.C.E. NO.	DATE

JK CONSULTING ENGINEERS
 A JOINT VENTURE
 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 833-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
 SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 AEROBIC DIGESTER TANKS - DETAILED SECTIONS

SHEET
 S4-5

NOTES:
 1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.



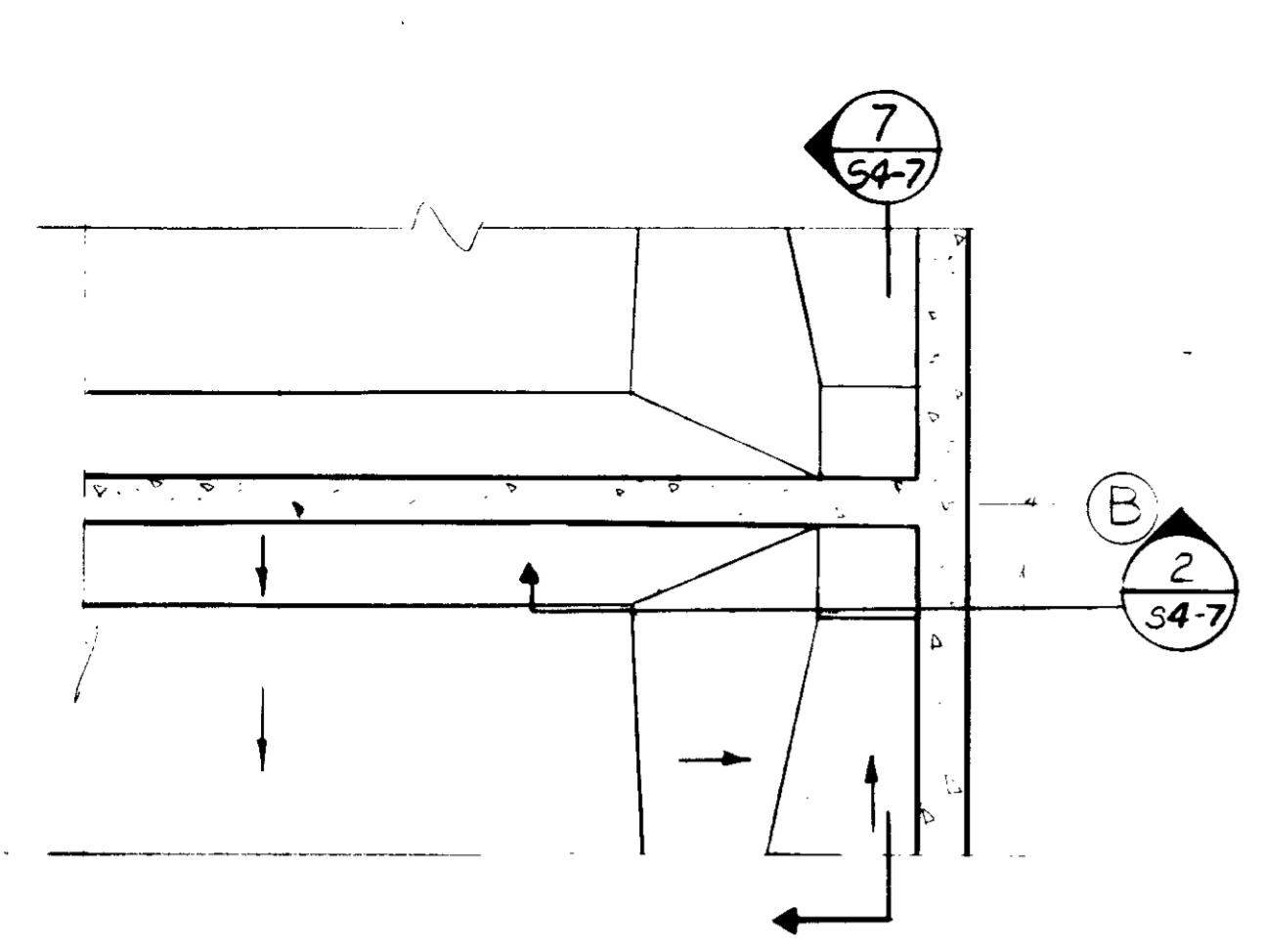
RECORD DRAWINGS
 Per Field Information Provided By Merley-Ziebarth & Alper
Yip & Williams RCE 14088
 KATSURA CONSULTING ENGINEERS March 1988

GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

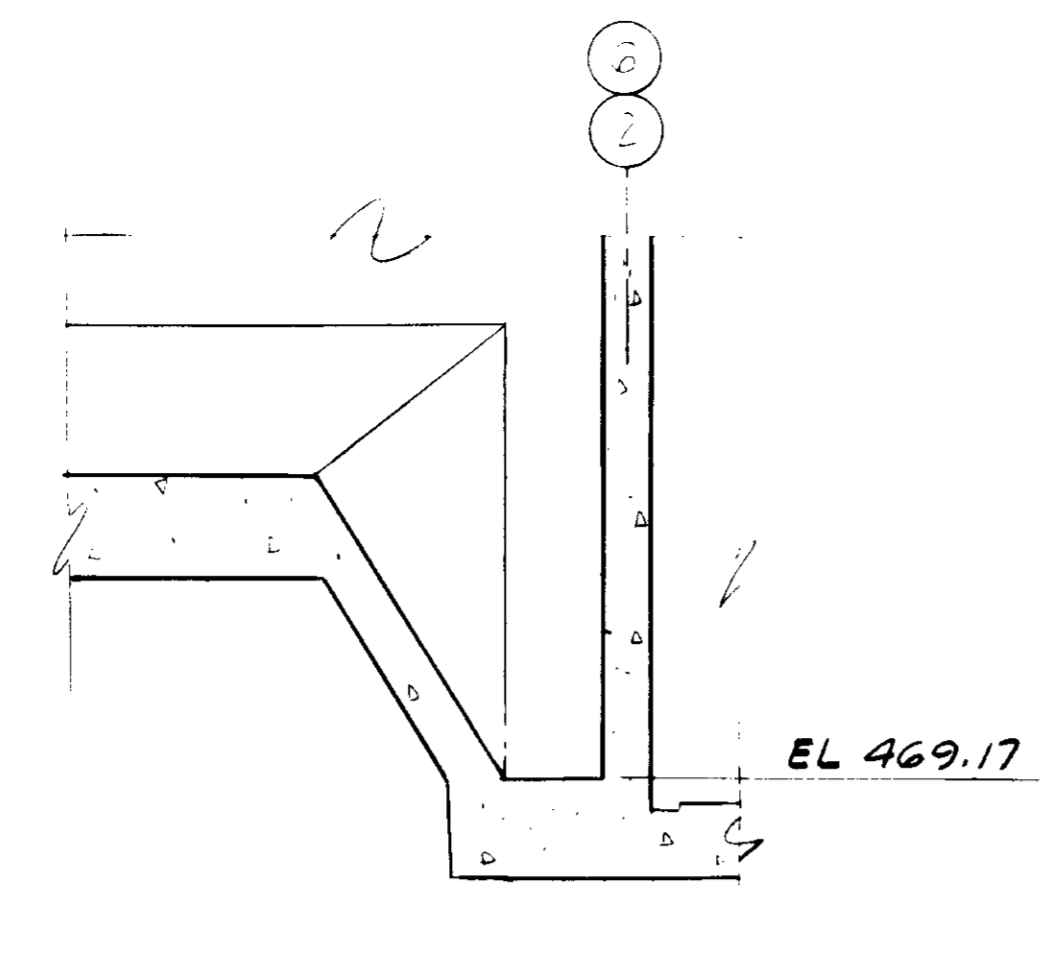
03094

SCALE: AS SHOWN AS DESIGNED: [Signature] DRAWN: [Signature] CHECKED: [Signature]		SUBMITTED: [Signature] 14038 11-5-79 PROJECT MANAGER: [Signature] R.C.E. NO. DATE PROJECT ADMINISTRATOR: [Signature] 14894 11-5-79 R.C.E. NO. DATE		J&K CONSULTING ENGINEERS A JOINT VENTURE 6601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. AEROBIC DIGESTER TANKS - ELEVATIONS & DETAILS		SHEET S4-6
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	

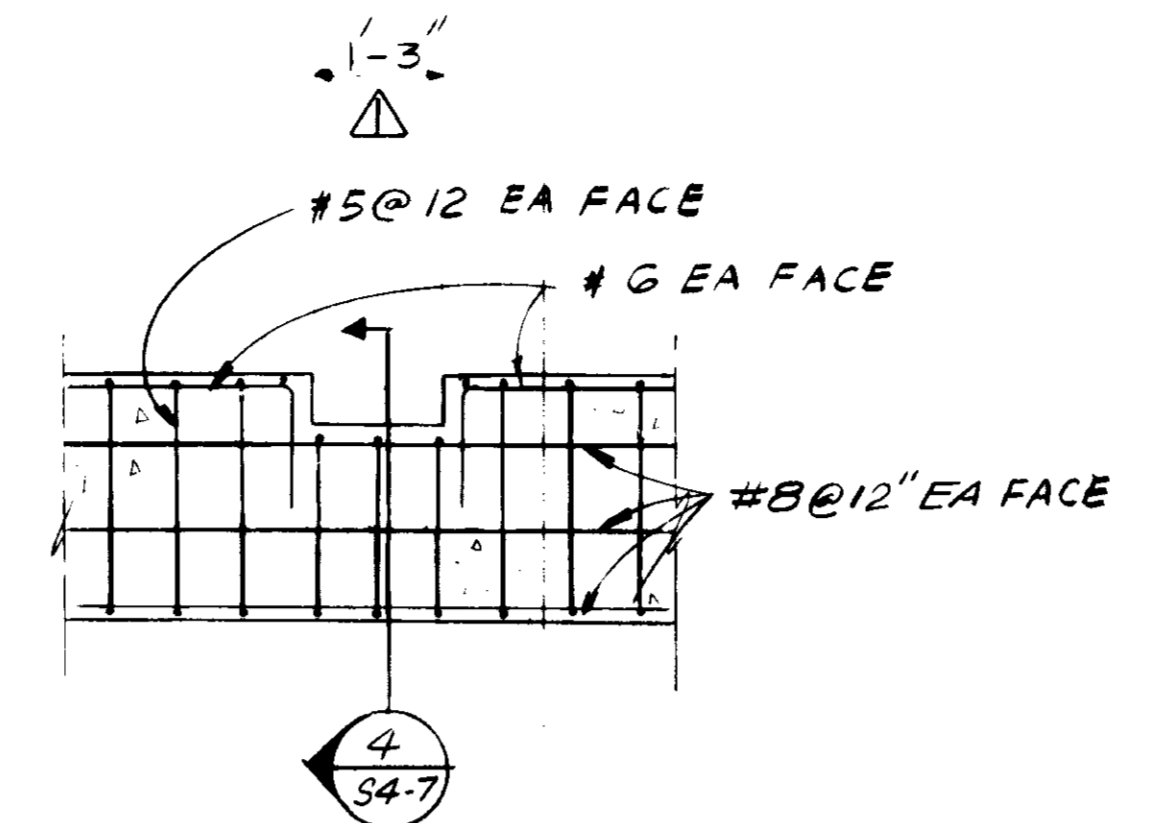
NOTES:
 1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.



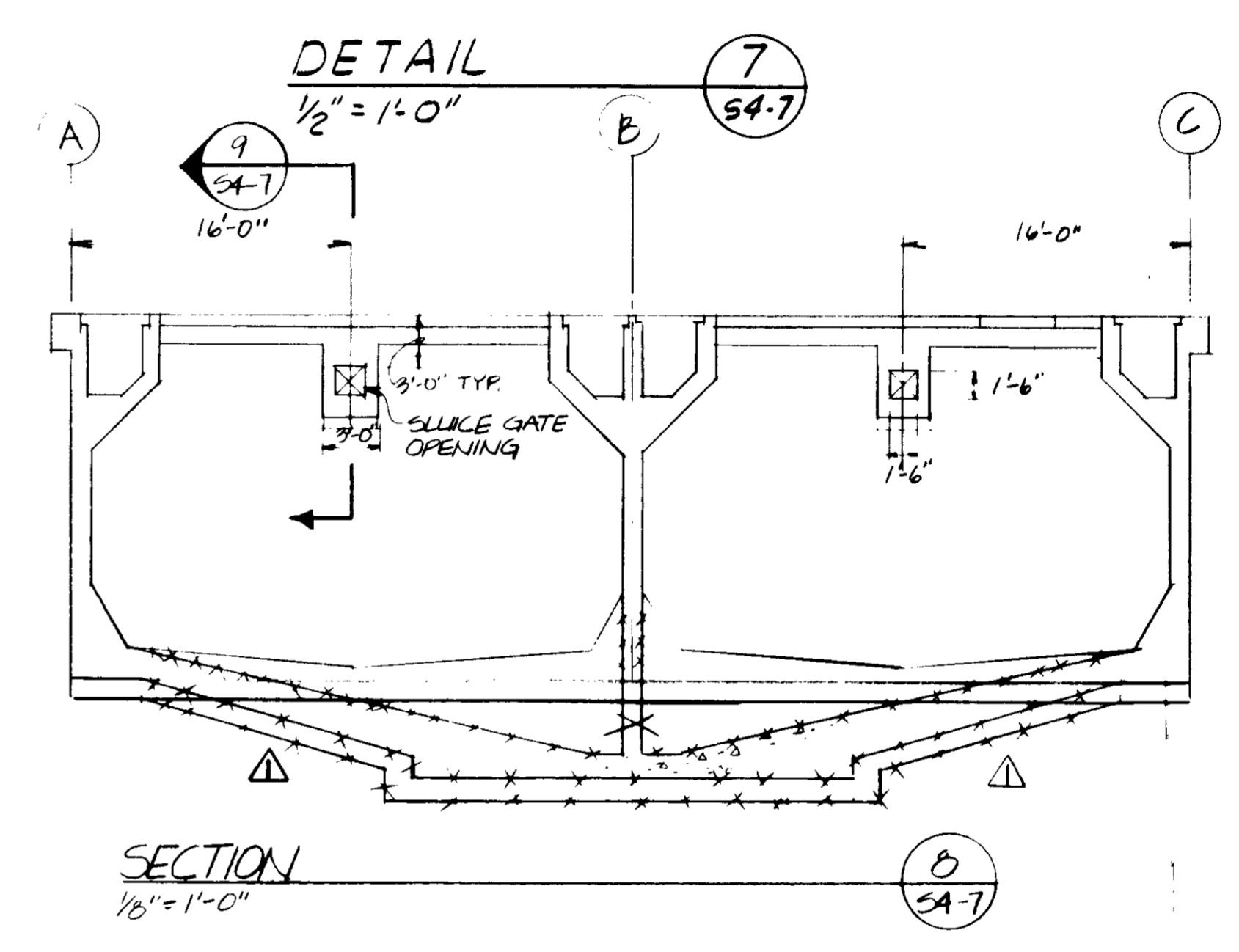
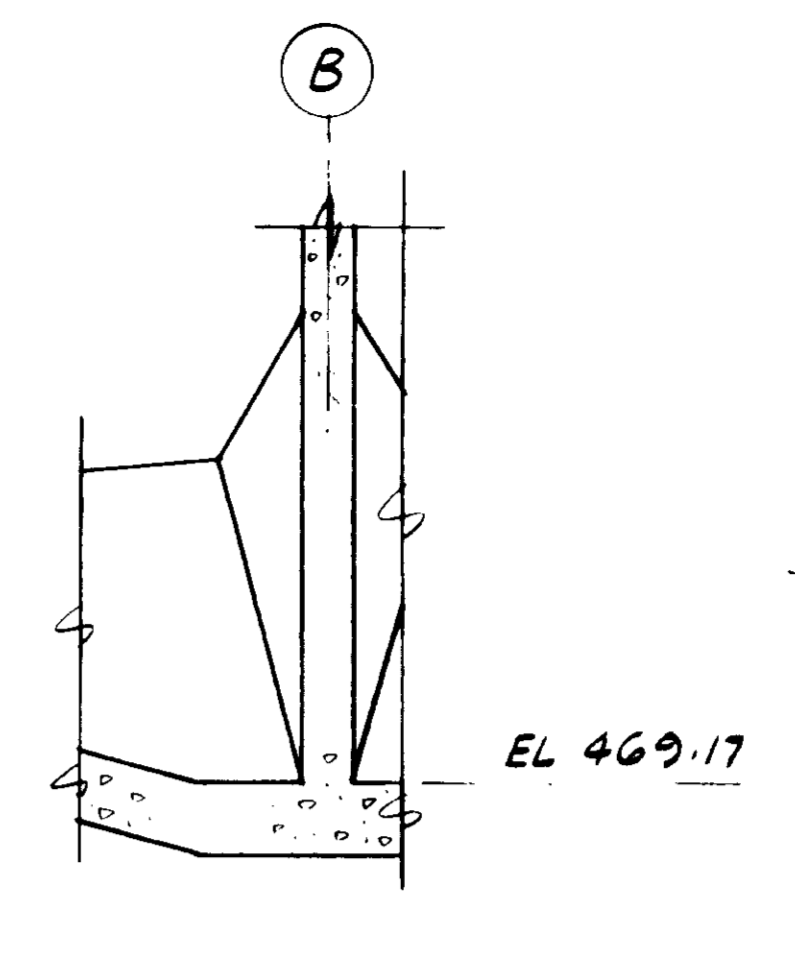
DETAIL 1
 1/4" = 1'-0"
 DRAWN FOR GEOMETRY ONLY
 REINFORCEMENT NOT SHOWN



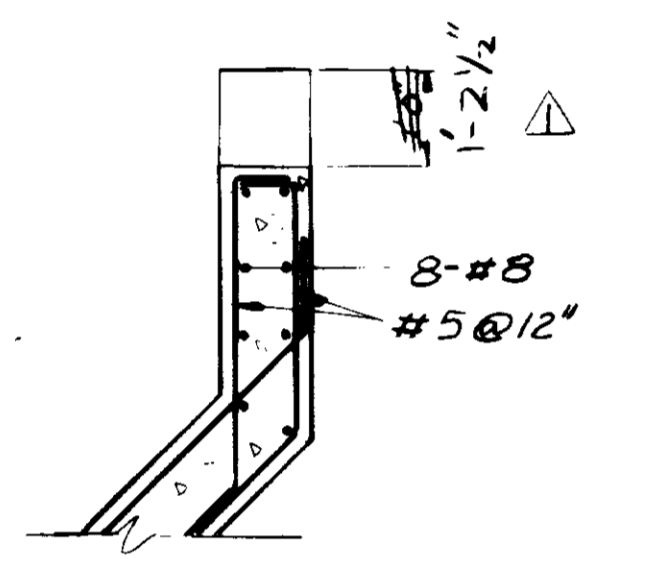
SECTION 2
 1/4" = 1'-0"



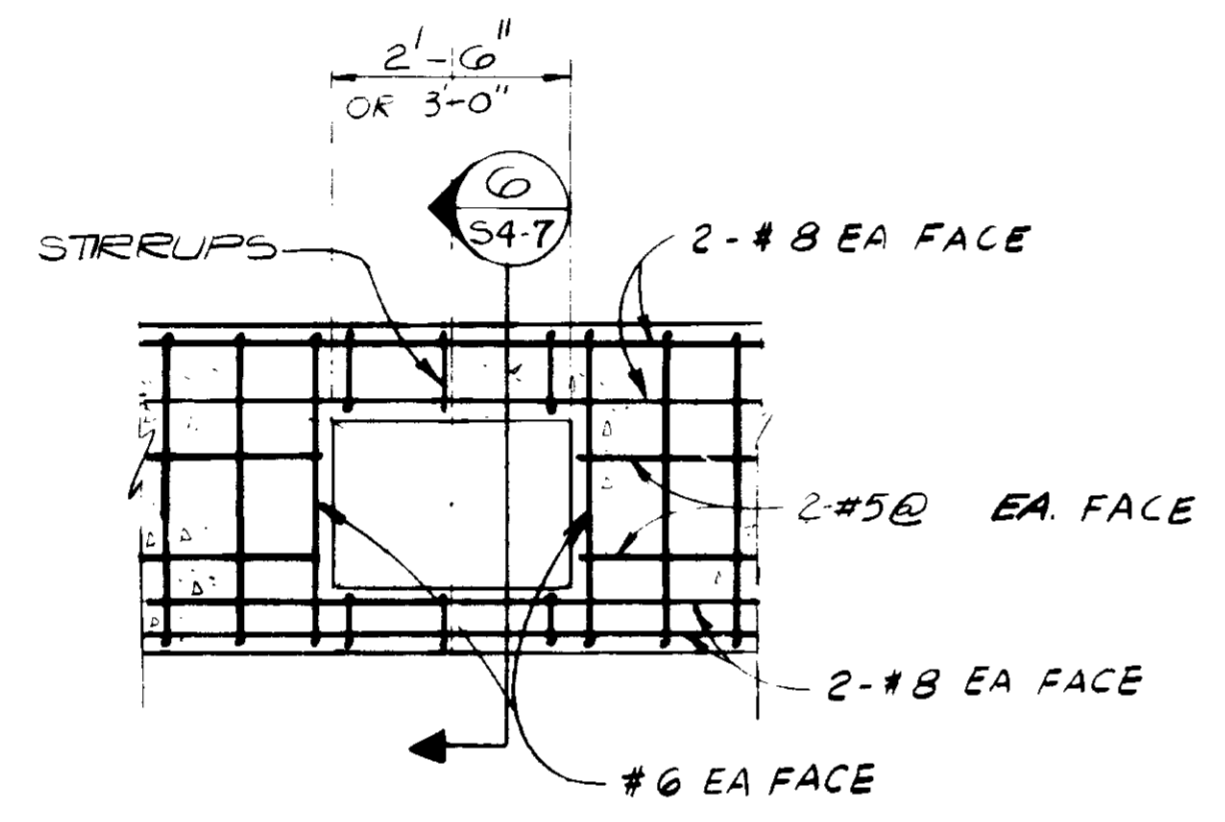
DETAIL 3
 3/8" = 1'-0"
BLOCKOUT OPENING



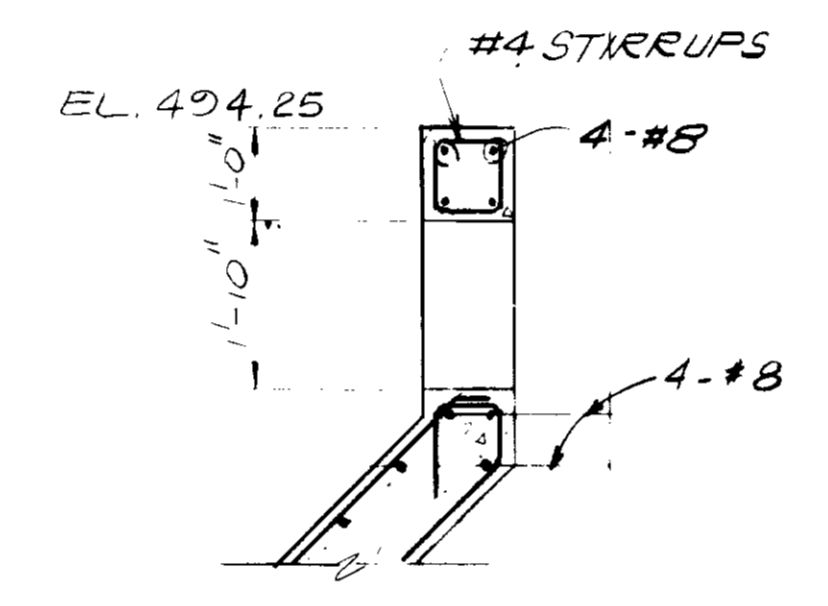
SECTION 8
 1/8" = 1'-0"



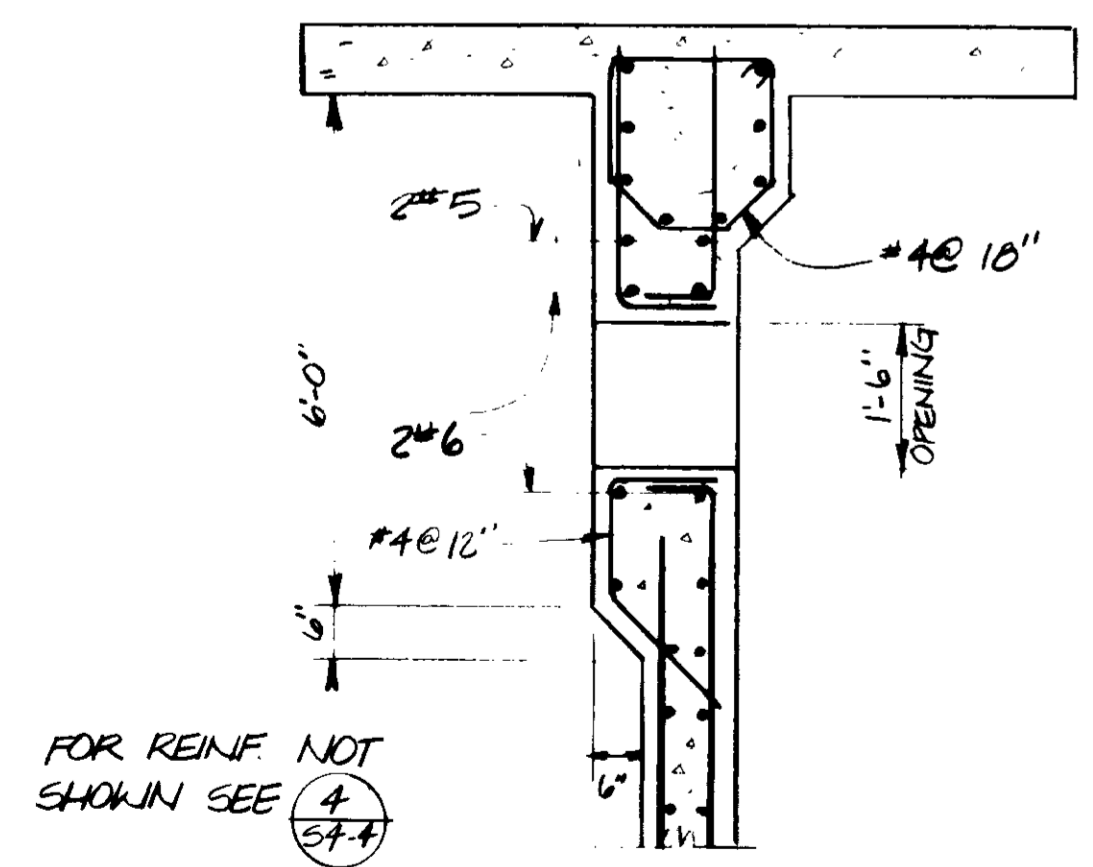
DETAIL 4
 1/2" = 1'-0"



DETAIL 5
 1/2" = 1'-0"
PORT OPENING

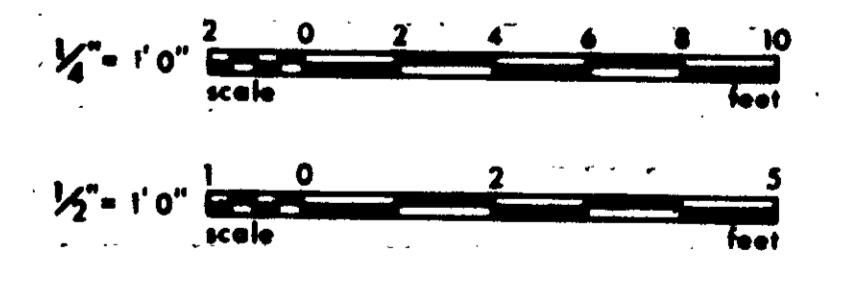


DETAIL 6
 1/2" = 1'-0"



SECTION 9
 1/2" = 1'-0"

03095



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

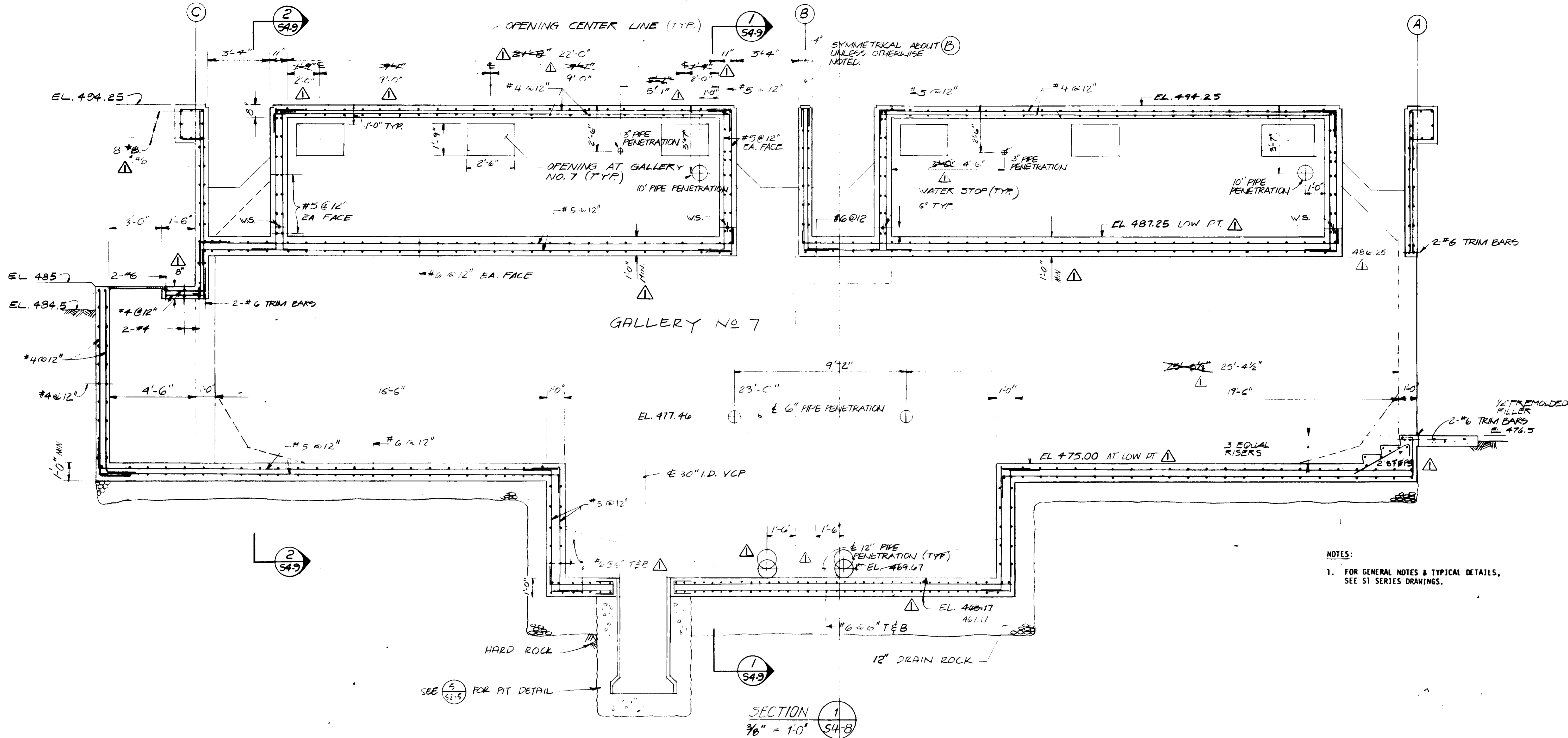
RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura
 KATSURA CONSULTING ENGINEERS RCE 14088
 March 1985

REV	DATE	BY	DESCRIPTION

SCALE : AS SHOWN	DESIGNED DZ	DRAWN ARF	CHECKED
SUBMITTED <i>[Signature]</i>	14088 R.C.E. NO.	11-5-79 DATE	
PROJECT MANAGER			
PROJECT ADMINISTRATOR <i>[Signature]</i>	14894 R.C.E. NO.	11-5-79 DATE	

JKE CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 AEROBIC DIGESTER TANKS - SECTIONS & DETAILS
 SHEET S4-7



NOTES:
 1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.

SECTION 1
 3/8" = 1'-0" (S4-8)

03096



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

RECORD DRAWINGS
 Per Field Information Provided By Moolay-Ziebarth & Alper
Yosh Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

REV	DATE	BY	DESCRIPTION

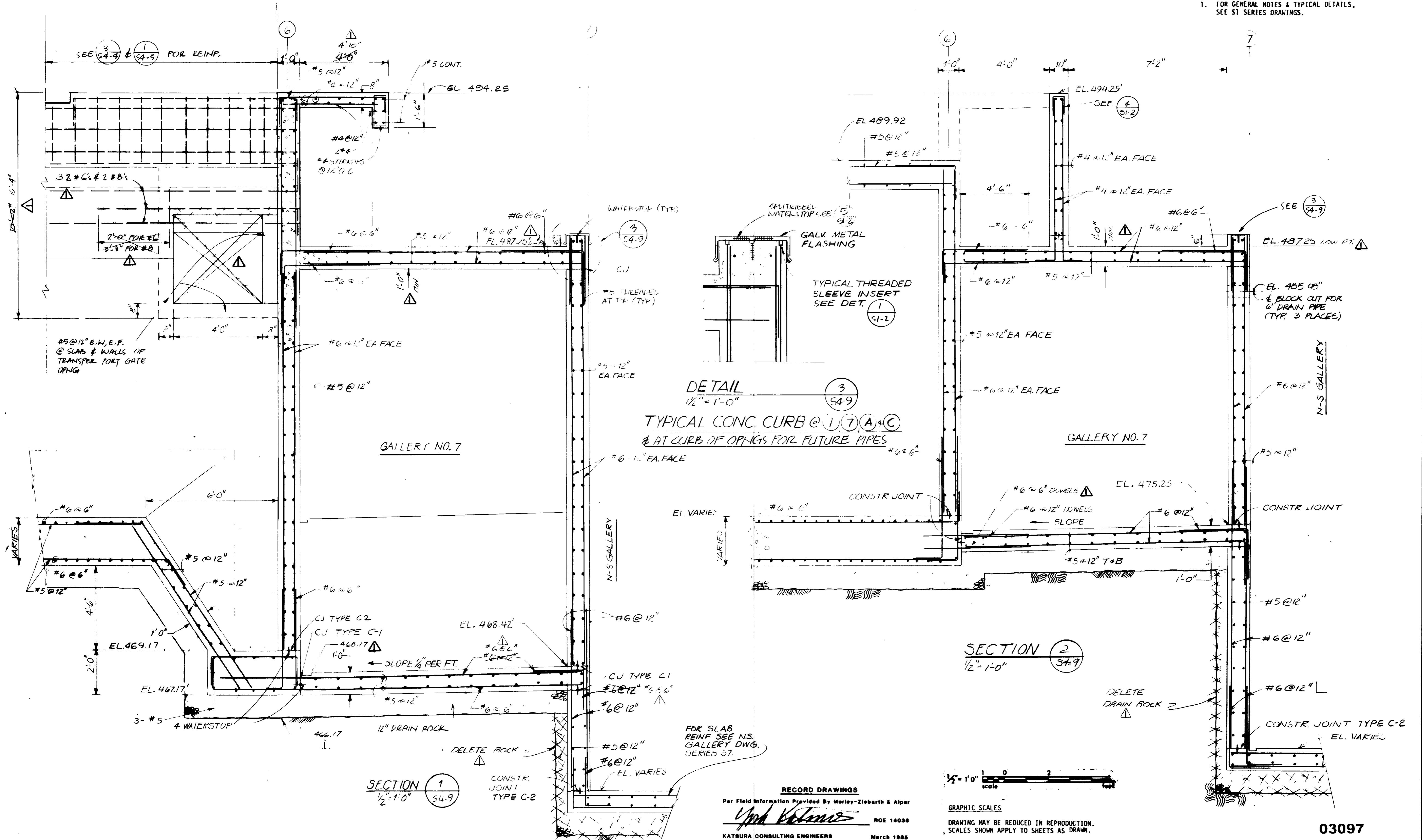
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DRAWN: ARP	CHECKED: <i>Yosh Katsura</i>	PROJECT MANAGER: <i>Yosh Katsura</i> R.C.E. NO. DATE
		PROJECT ADMINISTRATOR: <i>Yosh Katsura</i> 14894 11-5-79 R.C.E. NO. DATE

JKC CONSULTING ENGINEERS
 A JOINT VENTURE
 8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

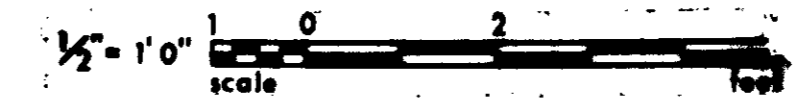
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 AEROBIC DIGESTER TANKS
 SECTIONS & DETAILS, GALLERY NO. 8

SHEET
S4-8

NOTES:
 1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.



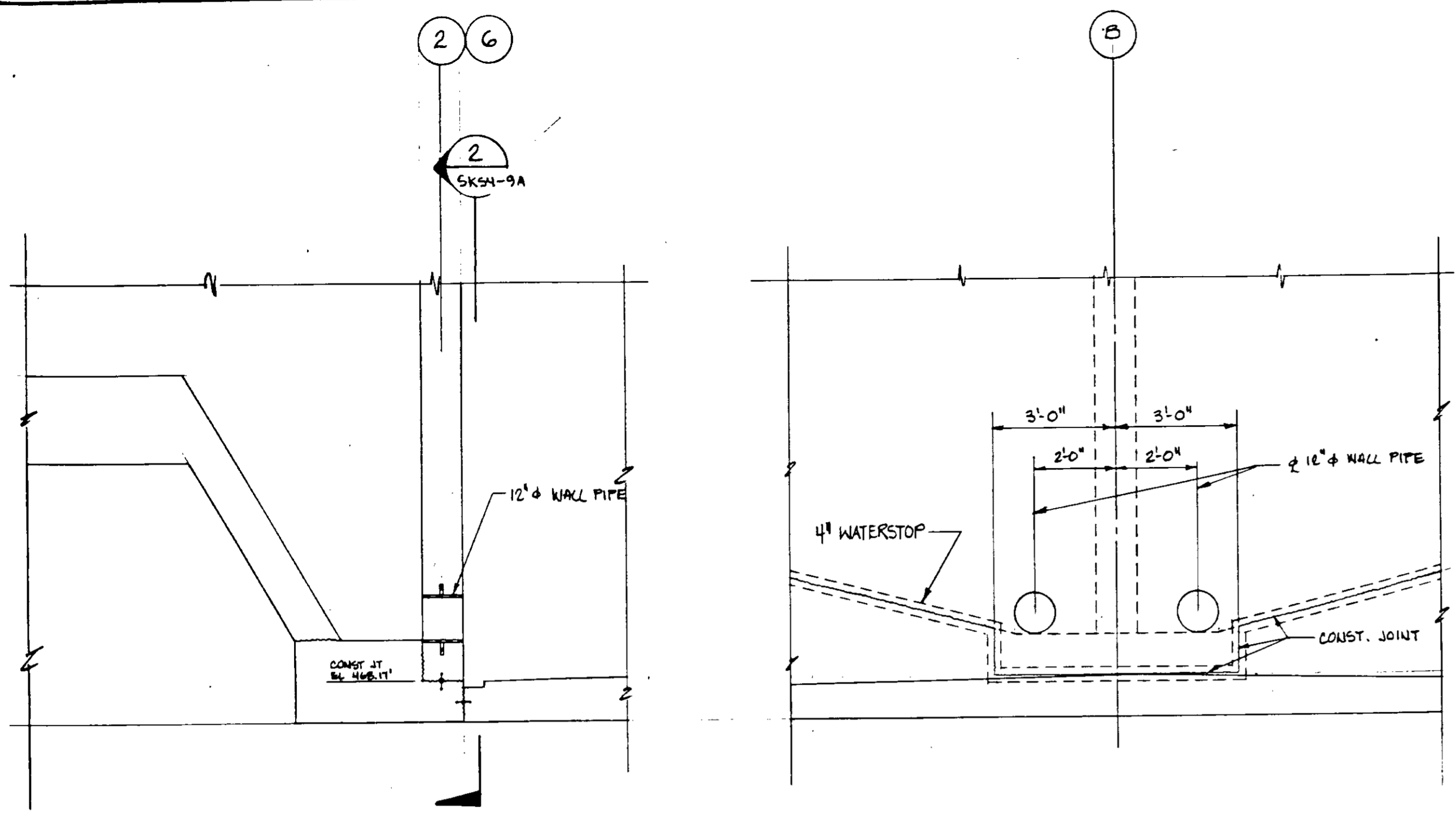
RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper
Yosh Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03097

SCALE: AS SHOWN		DESIGNED: AS	DRAWN: AKF	CHECKED:	PROJECT MANAGER: <i>Yosh Katsura</i> 14038 11-5-79	PROJECT ADMINISTRATOR: <i>Paula C. ...</i> 14894 11-5-79	CONSULTING ENGINEERS A JOINT VENTURE 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 833-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. AEROBIC DIGESTER TANKS - SECTIONS - GALLERY NO. 7		SHEET S4-9
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION				



SECTION 1

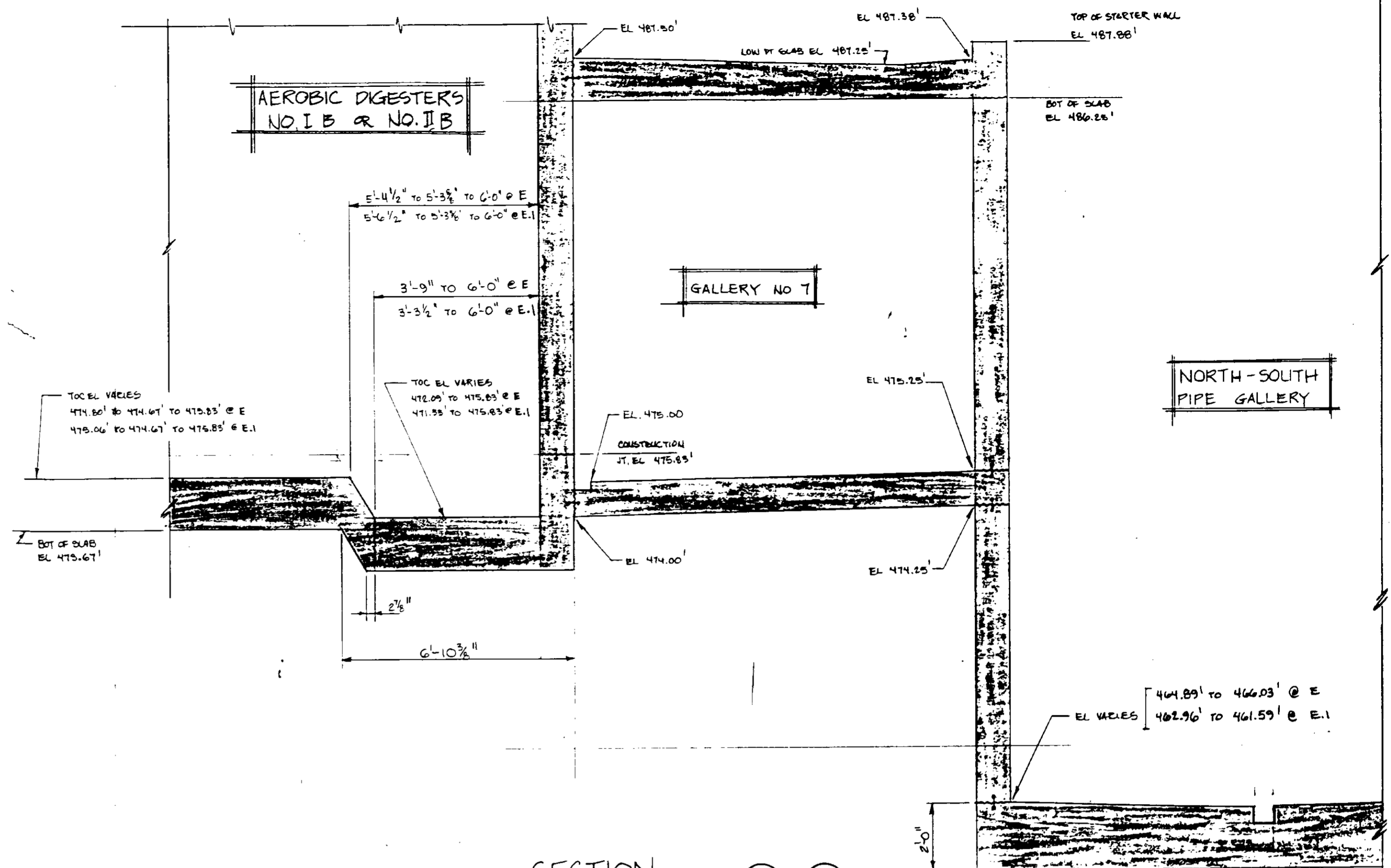
SKS4-9A

REFERENCE DRAWING: SKS4-9A
PLAN CLARIFICATION: PCL-05-26

SECTION 2

SKS4-9A

REFERENCE DRAWING: SKS4-9A
PLAN CLARIFICATION: PCL-05-26

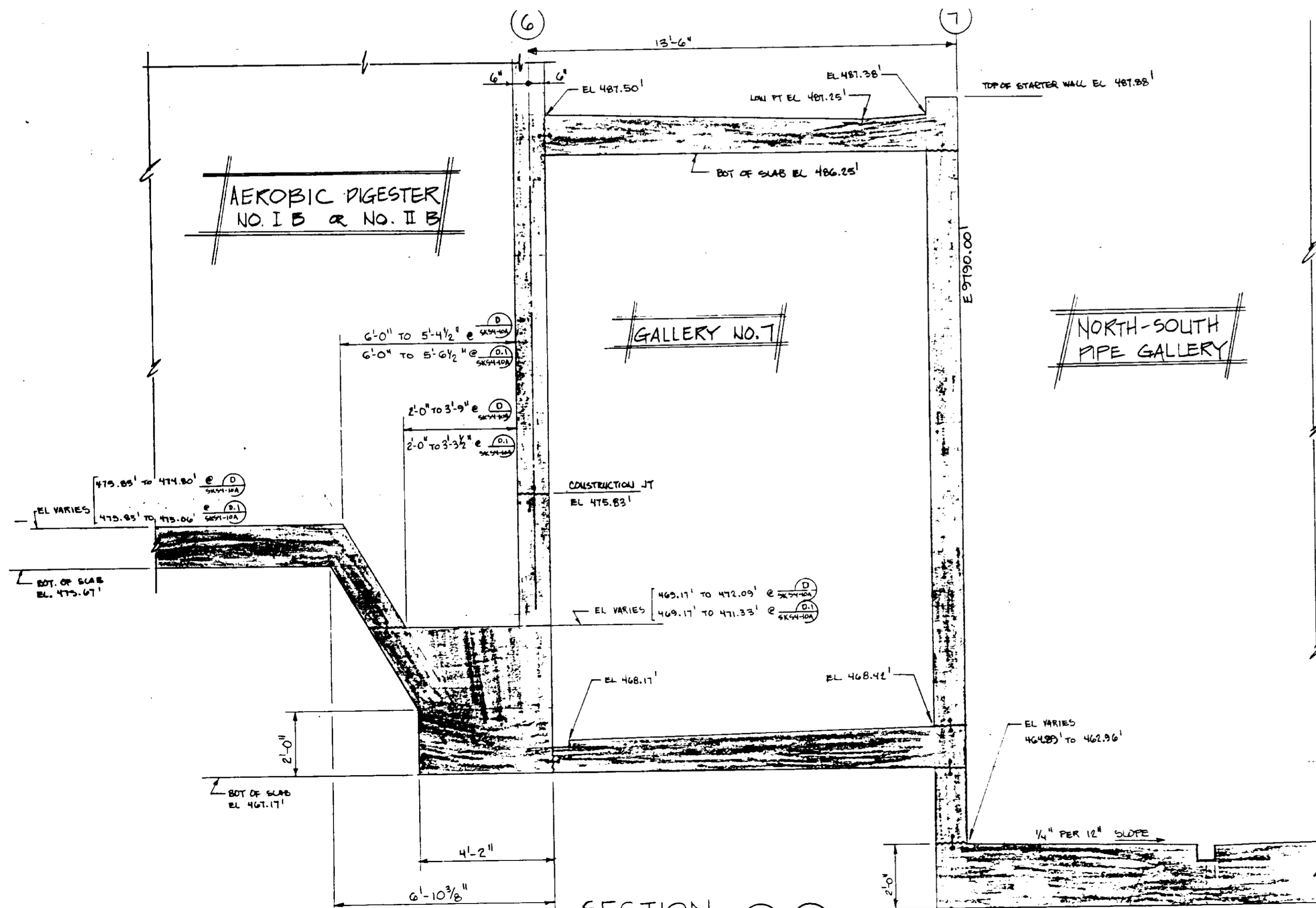


SECTION E

SKS4-10B / SKS4-40B

REFERENCE DRAWING: SKS4-10B
PLAN CLARIFICATION: PCL-05-8

SECTION E.1



SECTION D

SKS4-10A / SKS4-10A

REFERENCE DRAWING: SKS4-10A
PLAN CLARIFICATION: PCL-05-B

SECTION D.1

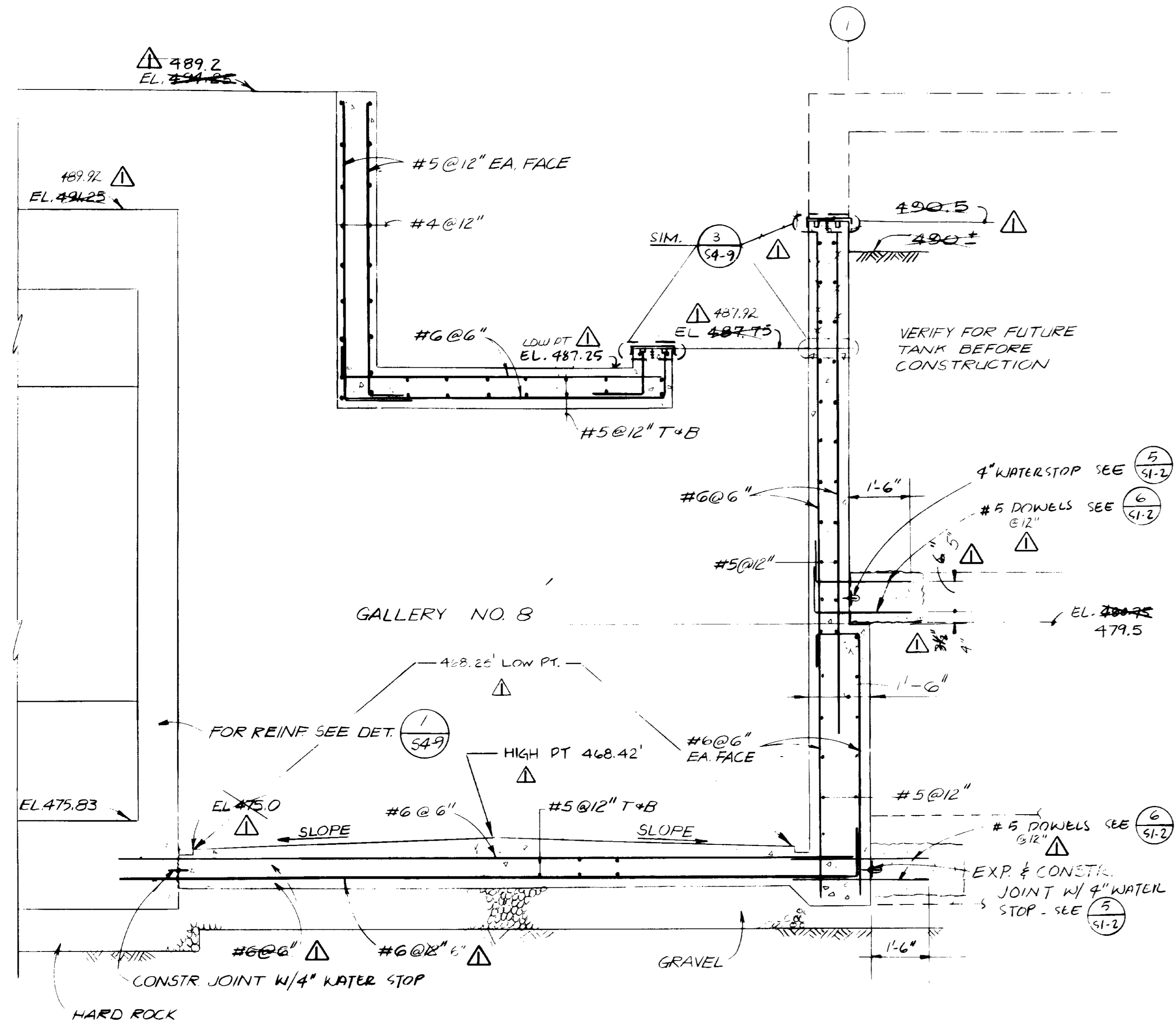
03098

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yoshitomo
KATSURA CONSULTING ENGINEERS RCE 14098
March 1985

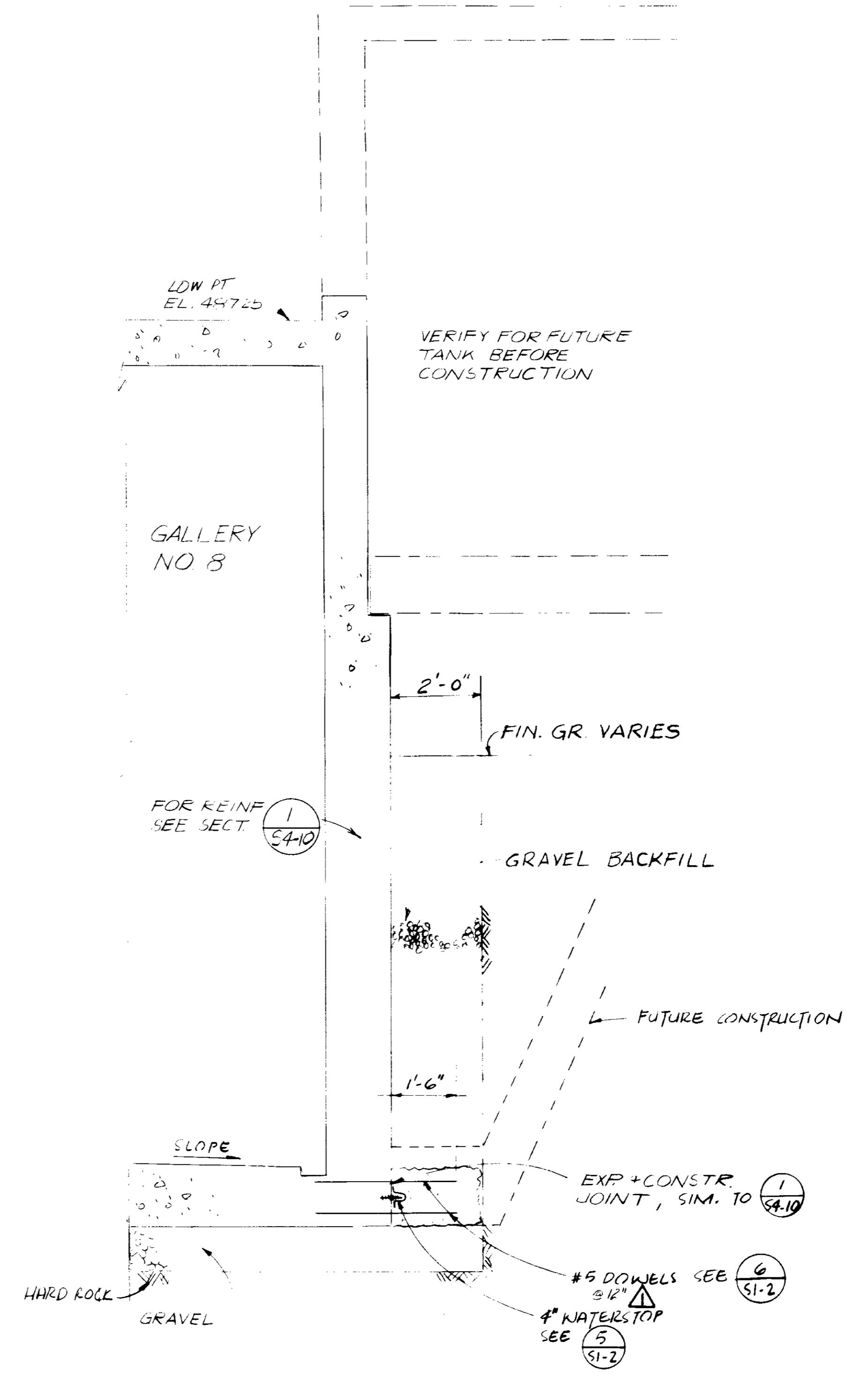
AEROBIC DIGESTER TANKS - SECTIONS, GALLERY NO. 7

SHEET S4-9A

- NOTES:
1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.
 2. FOR ADDITIONAL CLARIFICATION, SEE DRAWINGS ~~S4-9A AND S4-10A~~ S4-9A, AND S4-10A



SECTION 1
1/2" = 1'-0" (S4-10)



SECTION 2
1/2" = 1'-0" (S4-10)



RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yoshitomo RCE 14088
KATSURA CONSULTING ENGINEERS March 1986

GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03099

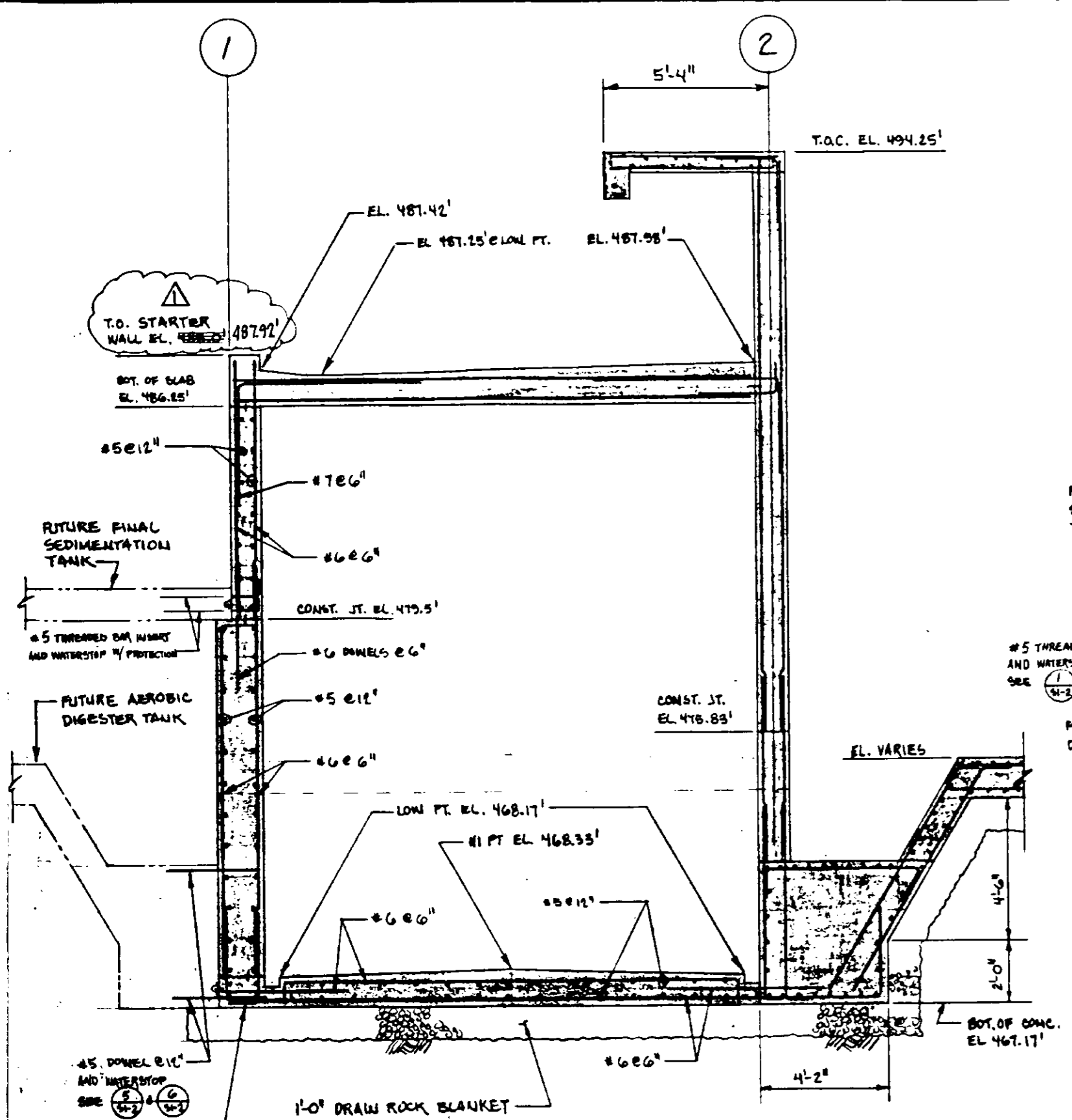
REV	DATE	BY	DESCRIPTION

SCALE :	AS SHOWN	DESIGNED :	AS	SUBMITTER :	<i>Yoshitomo</i>	14038	11-5-79
		DRAWN :	AKP	PROJECT MANAGER :	<i>Yoshitomo</i>	R.C.E. NO.	DATE
		CHECKED :		PROJECT ADMINISTRATOR :	<i>Pauline</i>	14884	11-5-79
						R.C.E. NO.	DATE

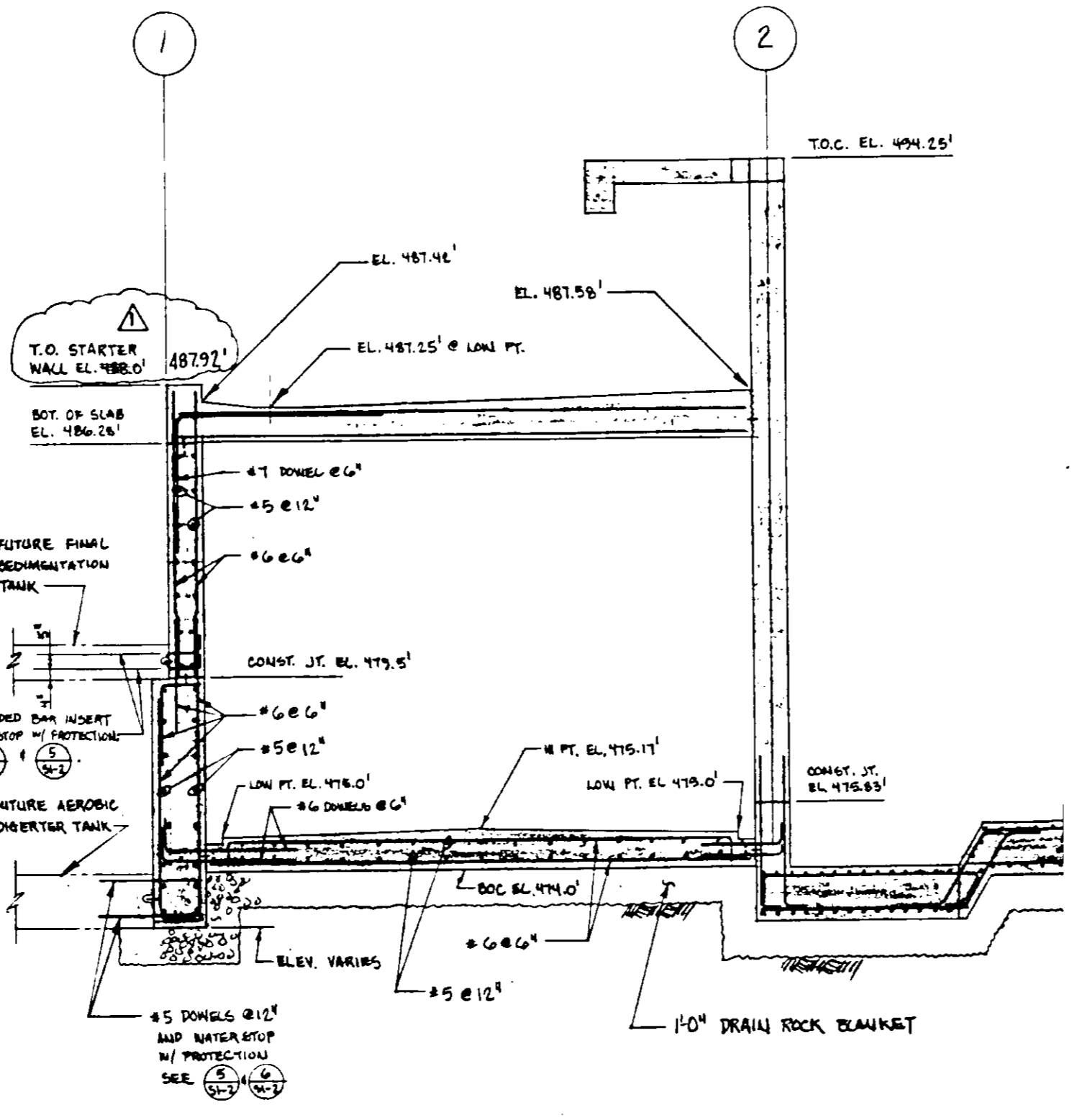
JKK CONSULTING ENGINEERS
A JOINT VENTURE
5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 633-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
AEROBIC DIGESTER TANKS - SECTIONS & DETAILS, GALLERY NO. 8

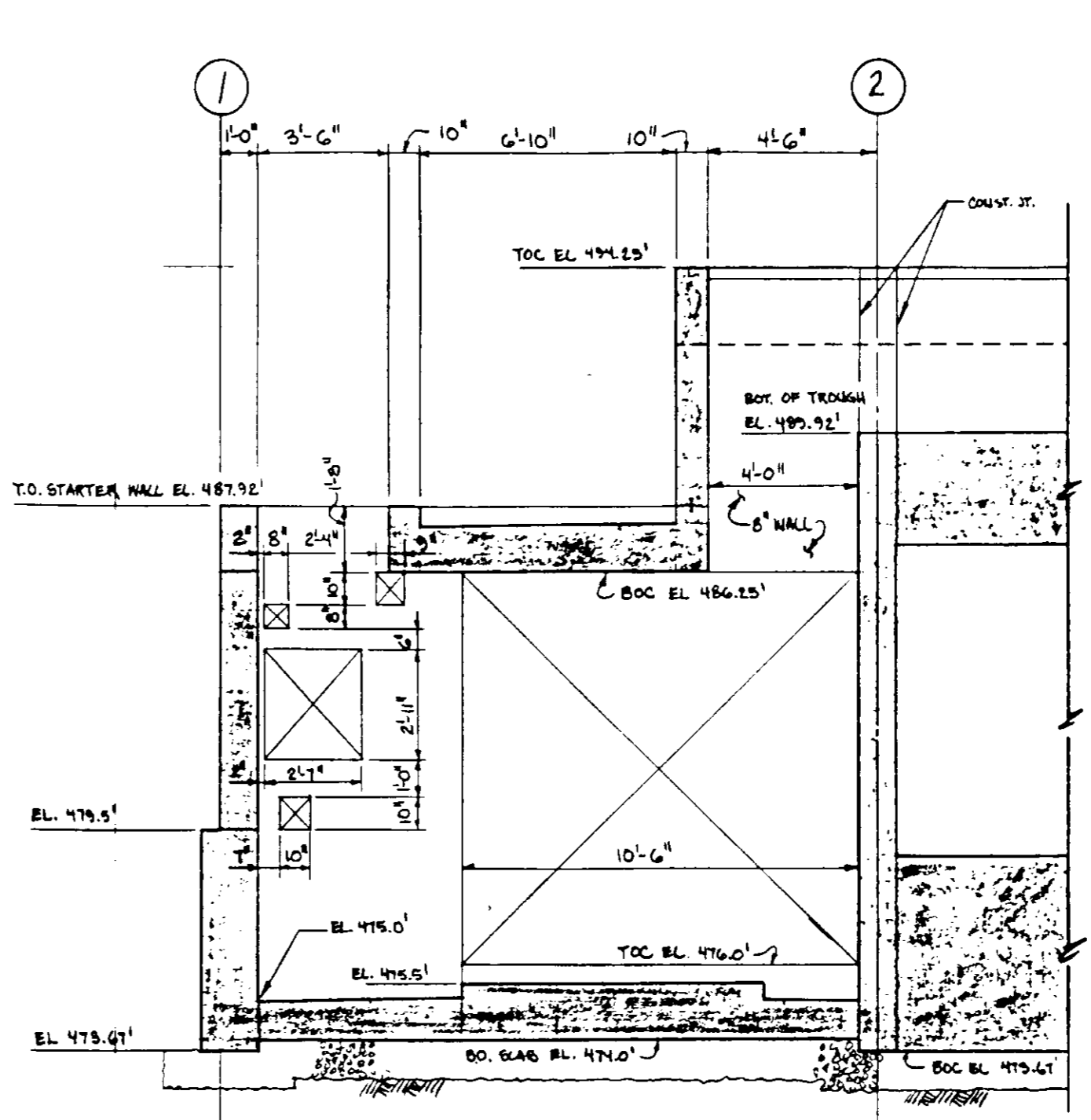
SHEET
S4-10



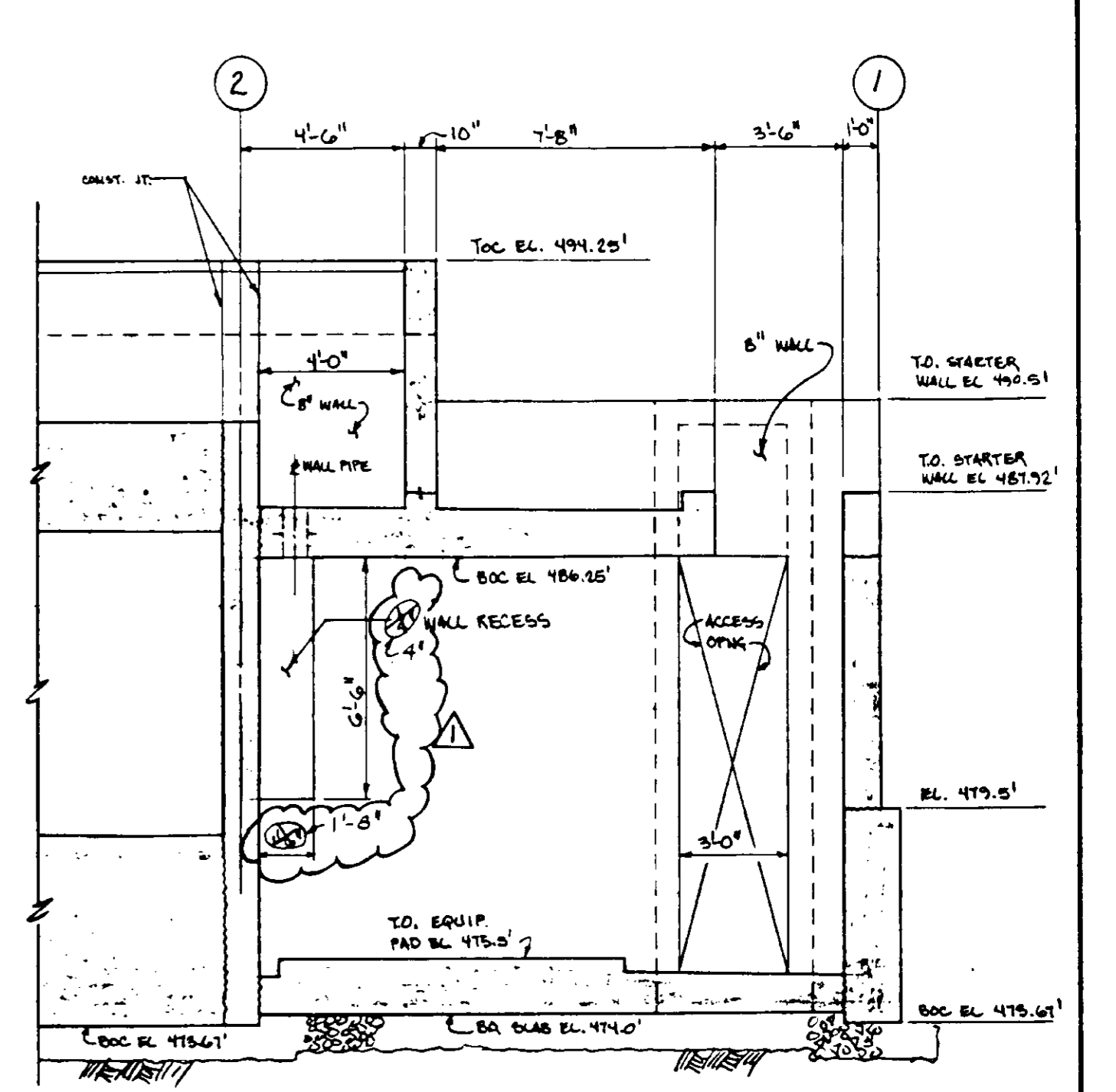
SECTION 2A
 14'-10"
 SKS4-10C
 REFERENCE DRAWING: SKS4-10C
 PLAN CLARIFICATION: PCL-C5-35



SECTION 1A
 14'-10"
 SKS4-10C
 REFERENCE DRAWING: SKS4-10C
 PLAN CLARIFICATION: PCL-C5-35



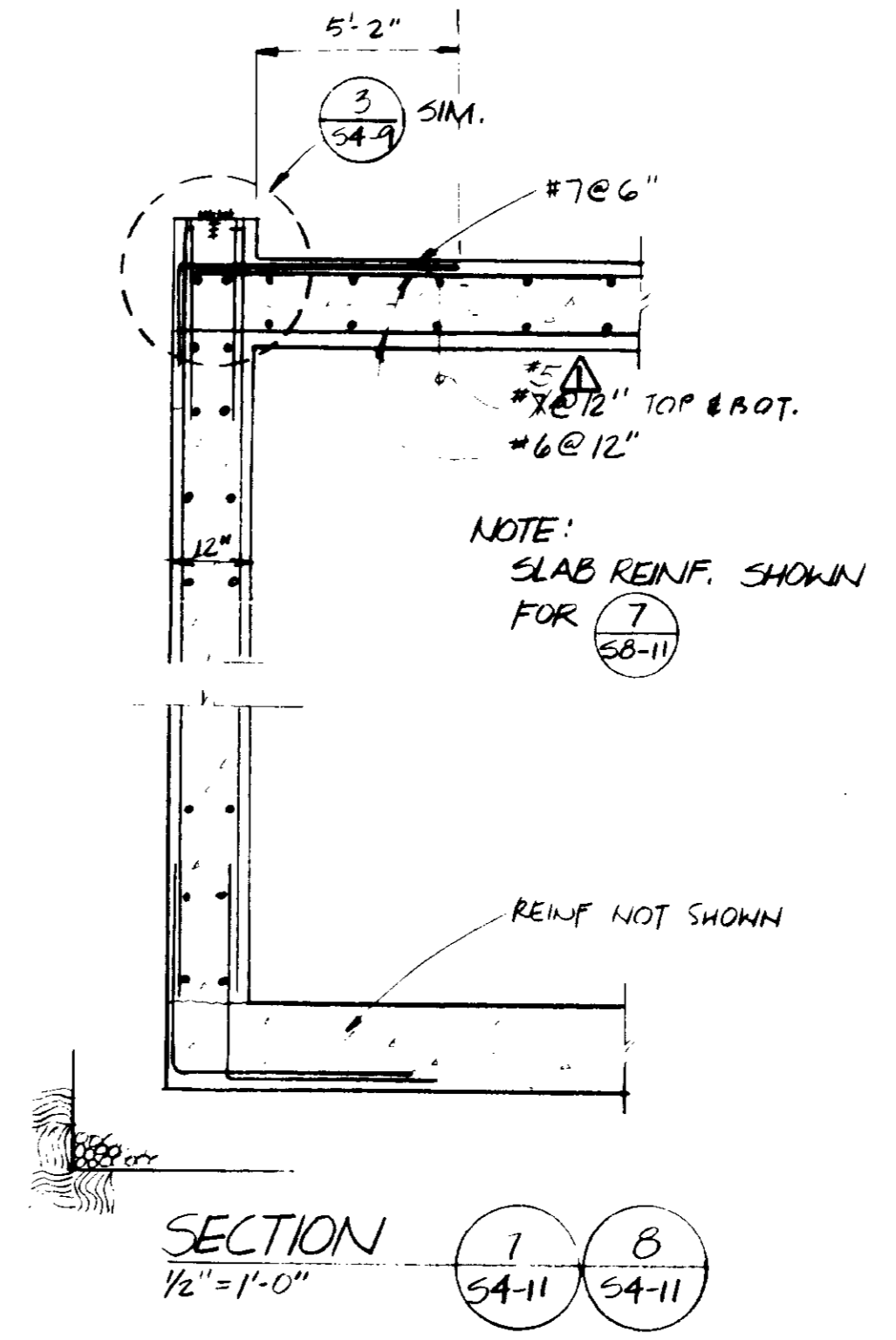
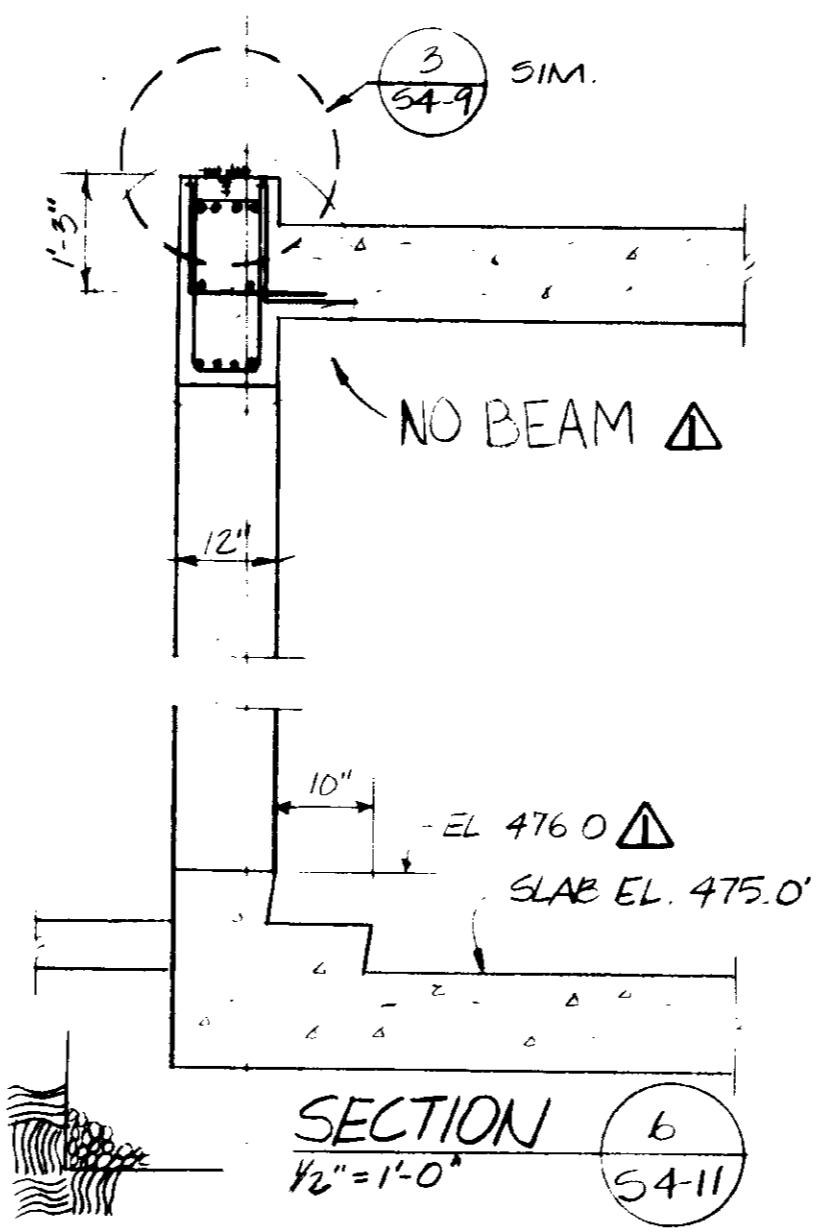
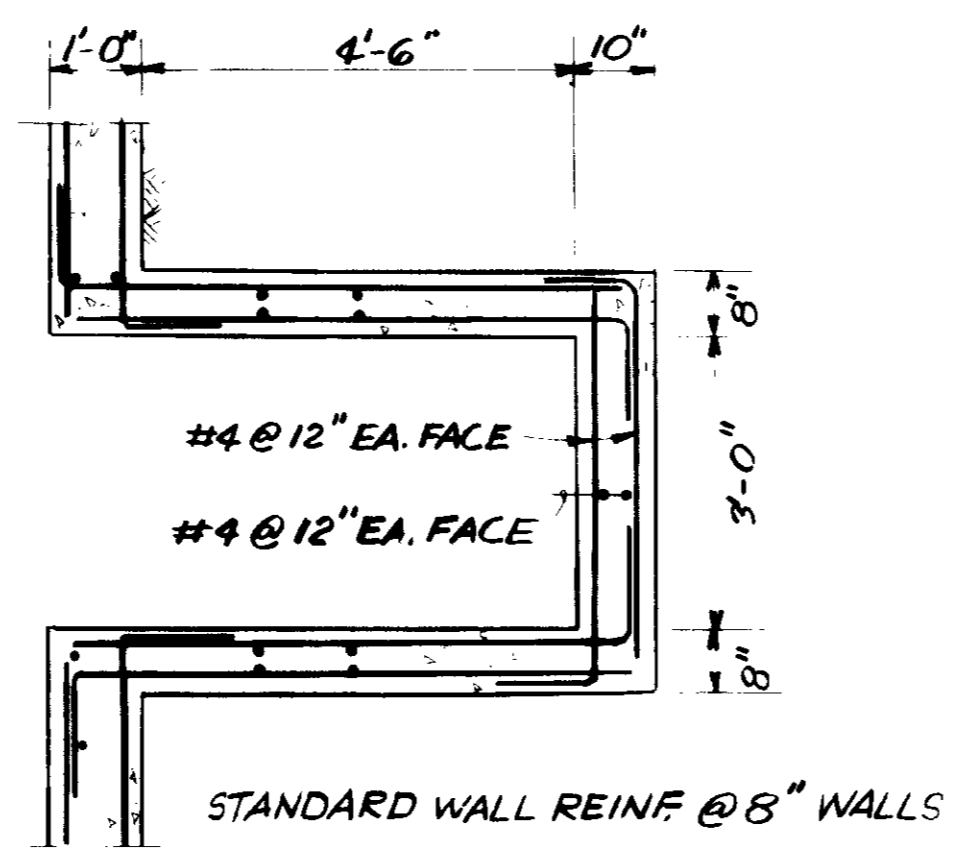
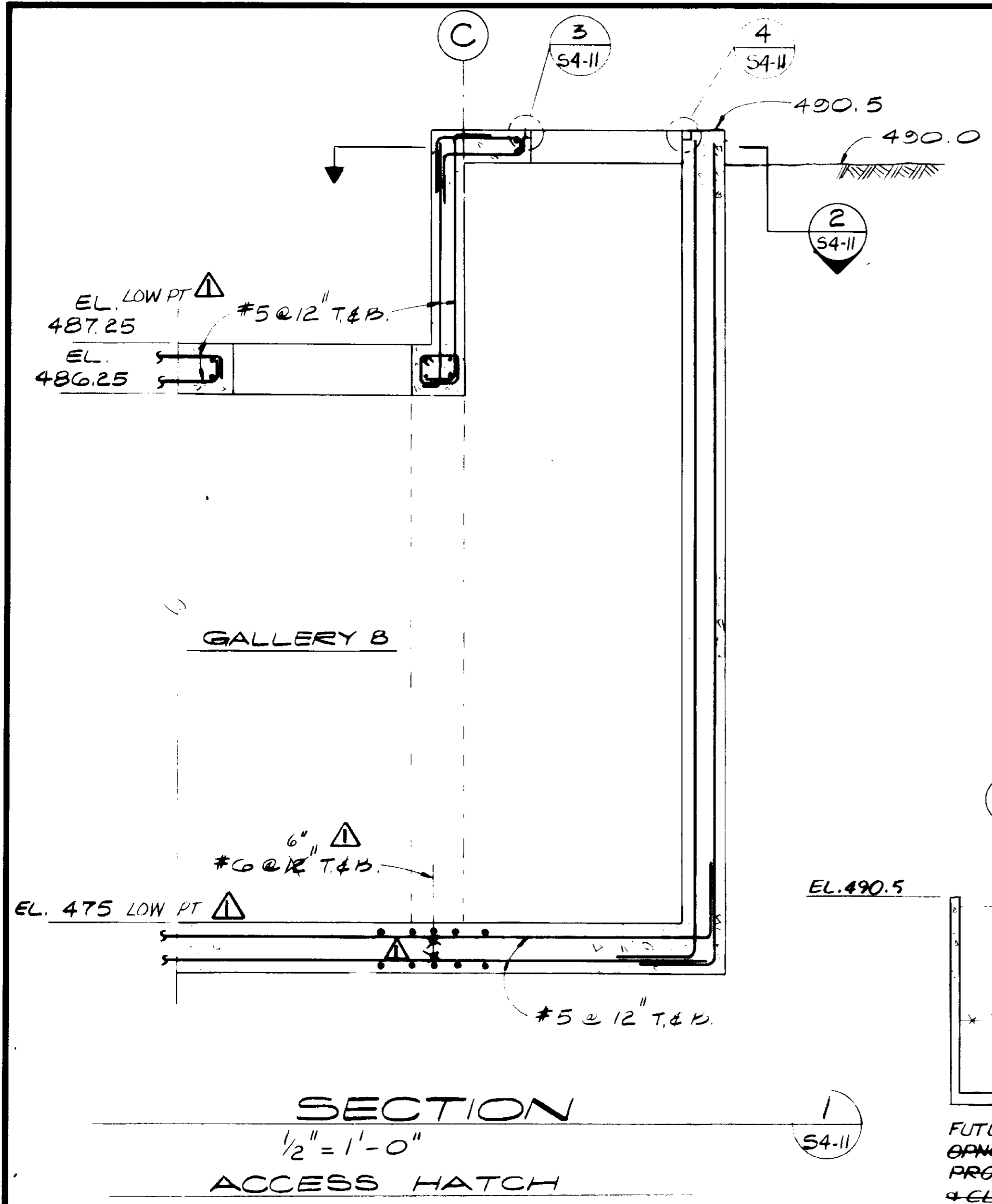
PARTIAL ELEV. - WALL LINE A
 14'-10"
 REFERENCE DRAWING: SKS4-11A
 PLAN CLARIFICATION: PCL-C5-35



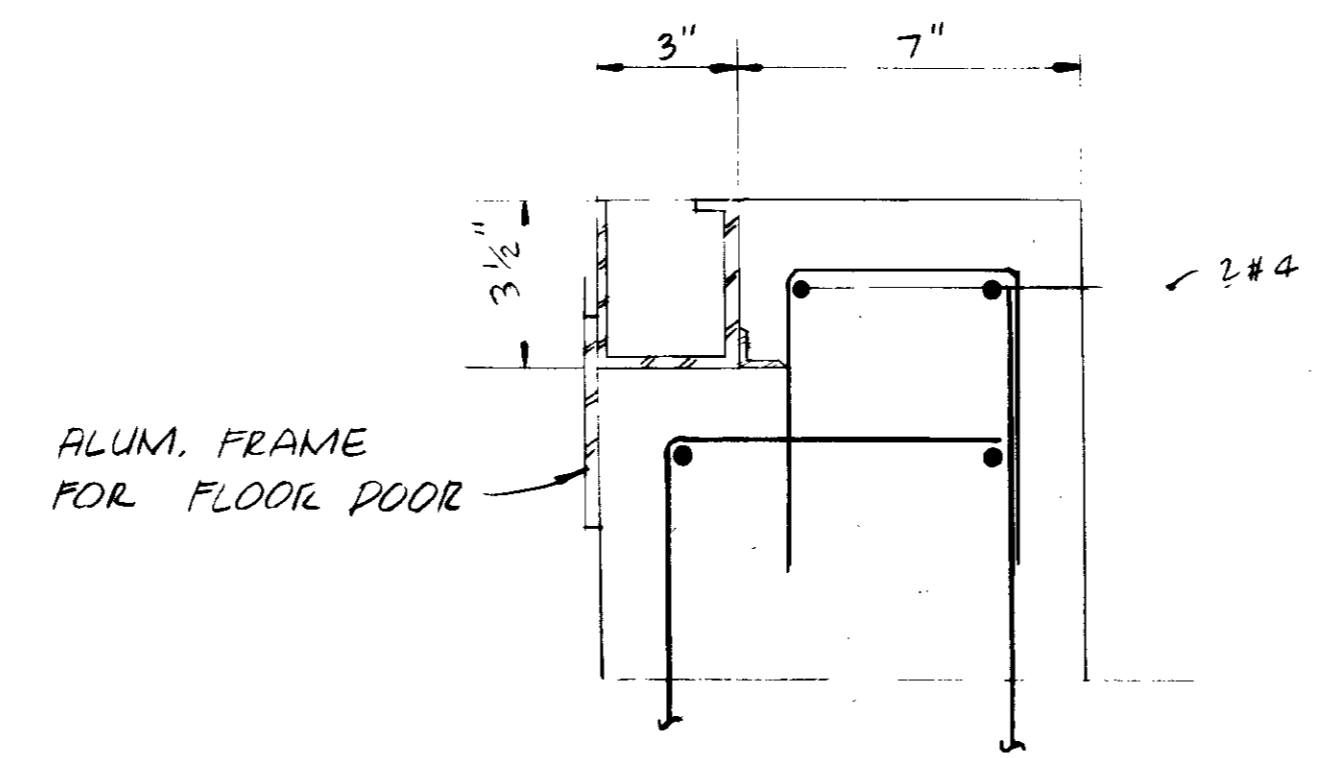
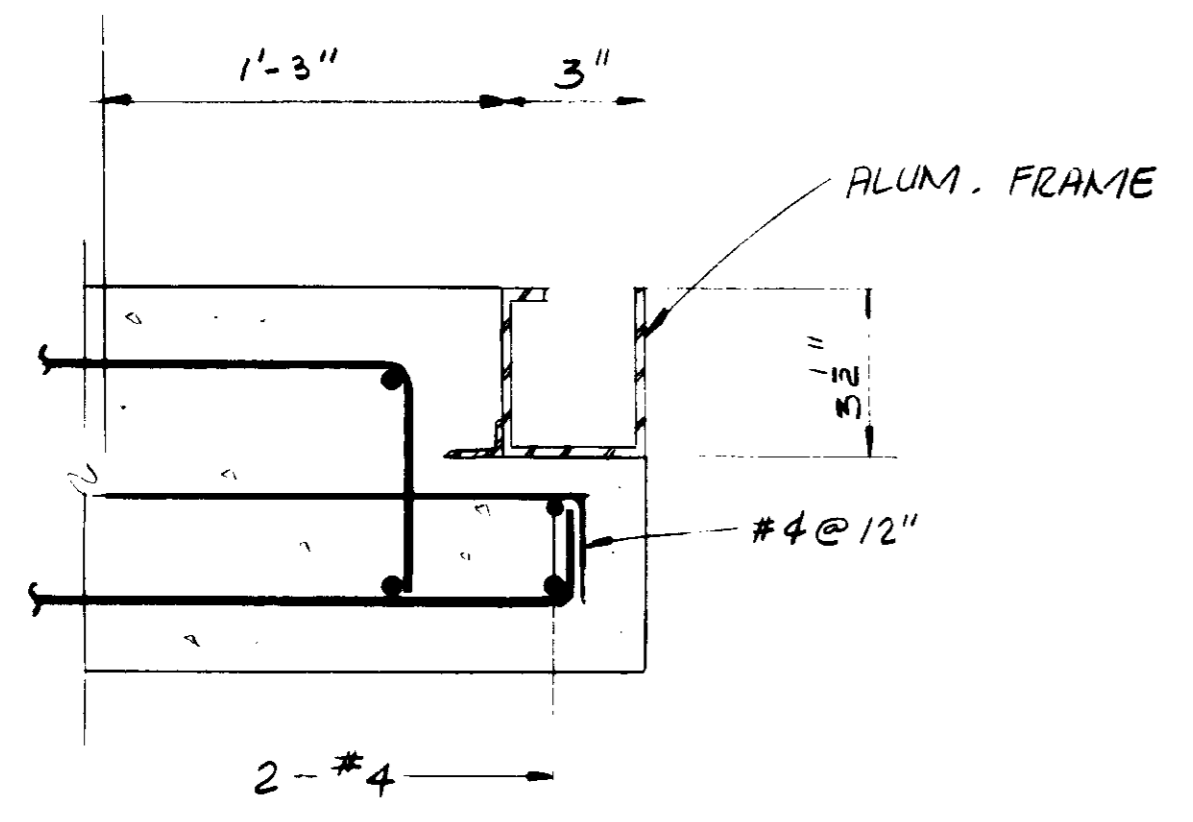
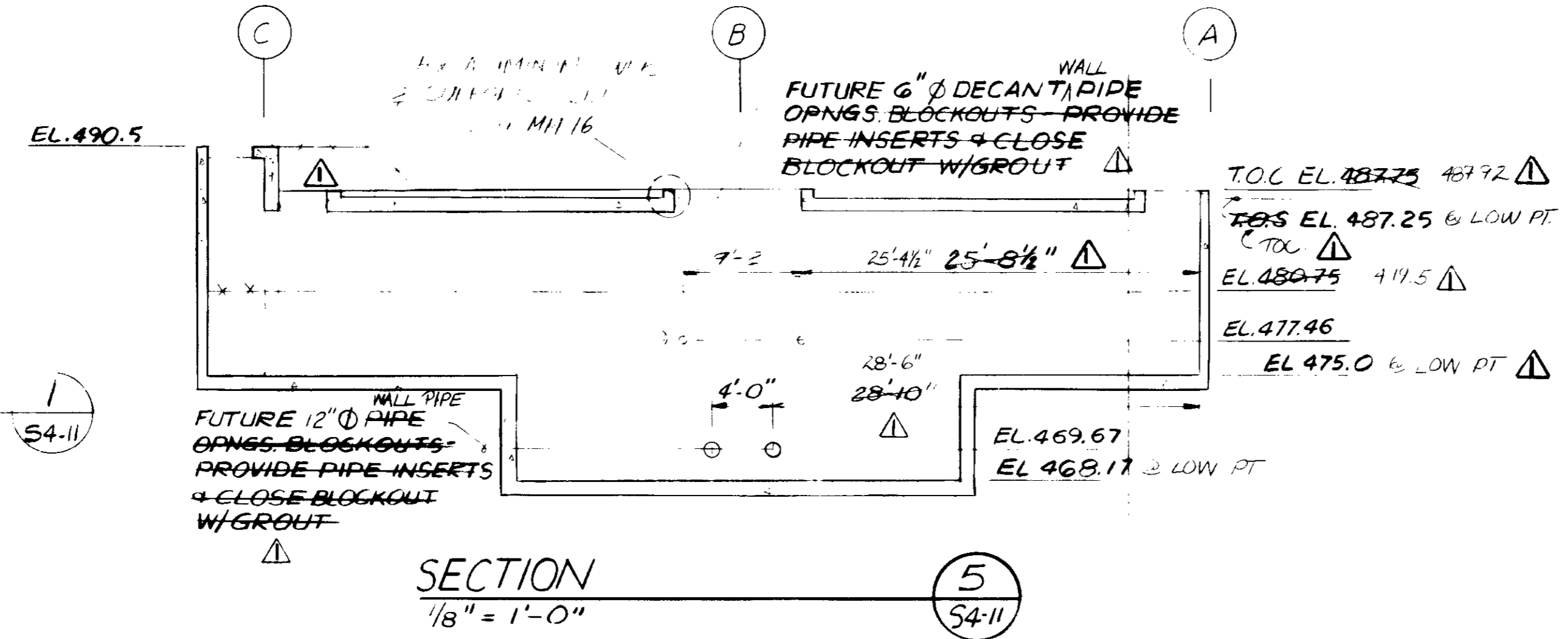
PARTIAL ELEV. - WALL LINE C
 14'-10"
 REFERENCE DRAWING: SKS4-11A
 PLAN CLARIFICATION: PCL-C5-35

03100

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yosh Katsura
 KATSURA CONSULTING ENGINEERS RCE 14038
 March 1985



NOTES:
 1. FOR GENERAL NOTES & TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.
 2. FOR ADDITIONAL CLARIFICATION, SEE DRAWING S4-11A.



03101

RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alger
 KATSURA CONSULTING ENGINEERS March 1986

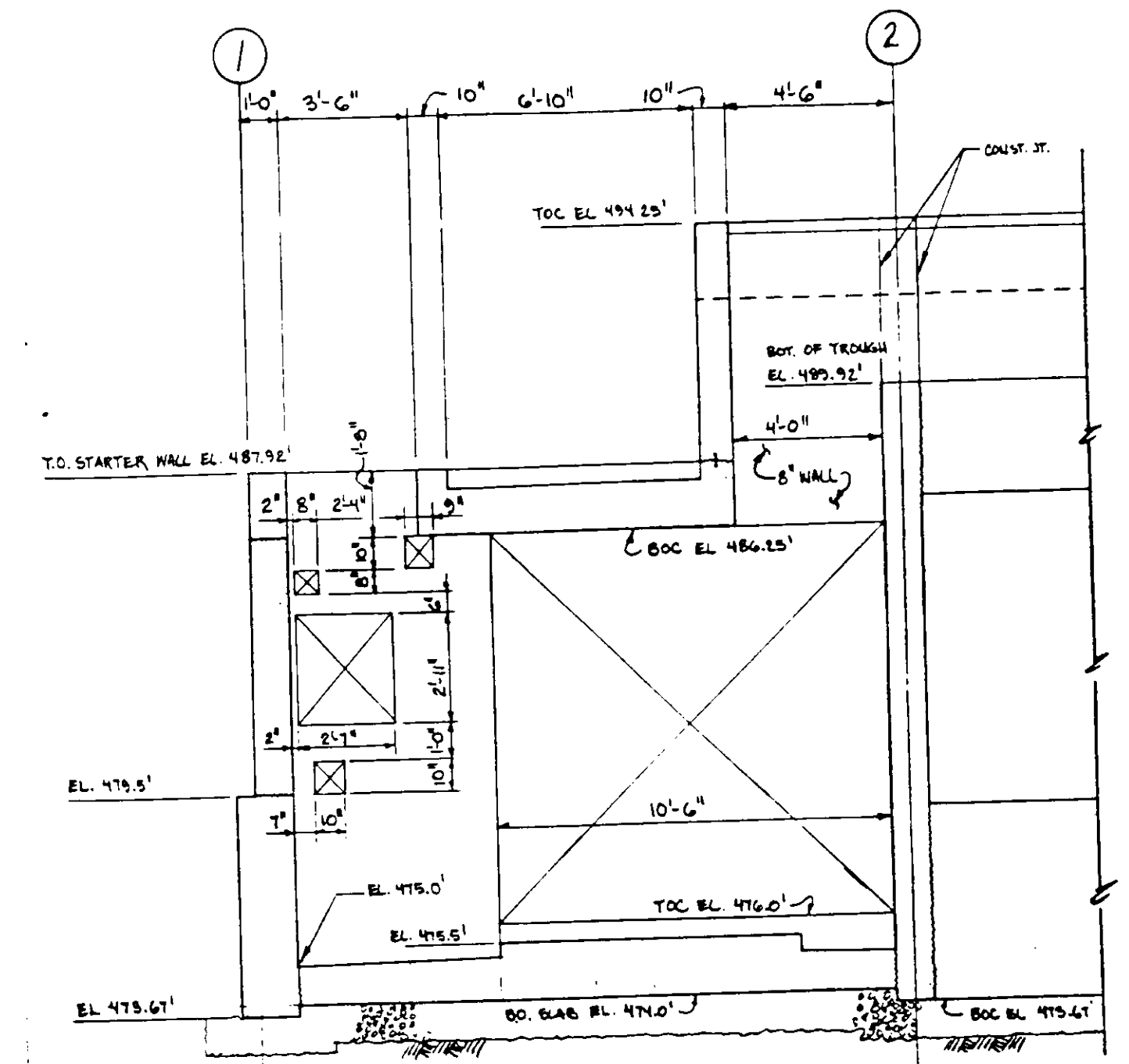
REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	DESIGNED: AS	DRAWN: DZ	CHECKED: ARP
PROJECT MANAGER: <i>[Signature]</i> 14038 11-5-79	R.C.E. NO.:	DATE:	
PROJECT ADMINISTRATOR: <i>[Signature]</i> 14894 11-5-79	R.C.E. NO.:	DATE:	

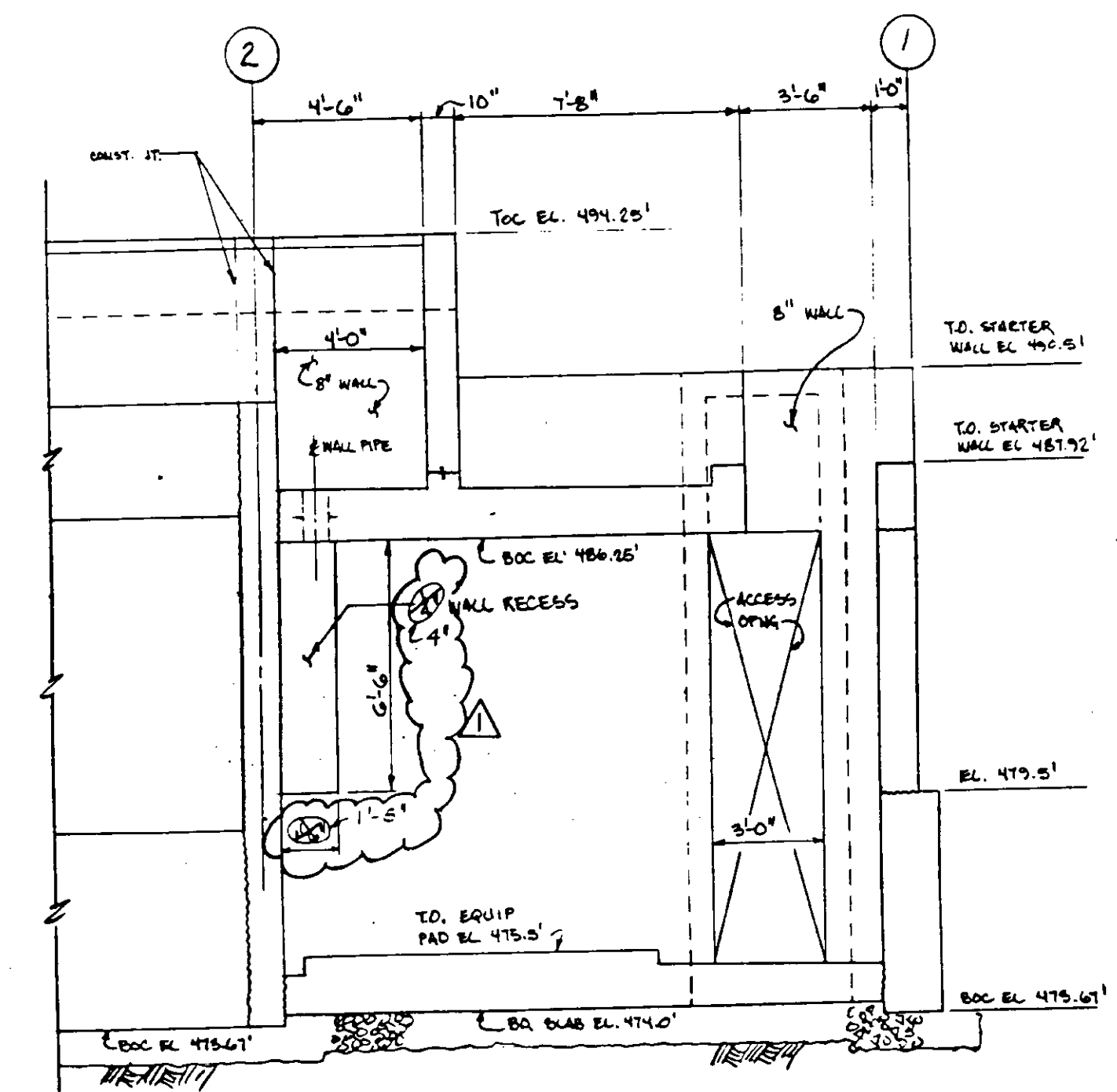
J&K CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 AEROBIC DIGESTER TANKS - SECTIONS - GALLERY NO. 8

SHEET
 S4-11



PARTIAL ELEV. - WALL LINE (A)
1/4" = 1'-0"



PARTIAL ELEV. - WALL LINE (C)
1/4" = 1'-0"

03102

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

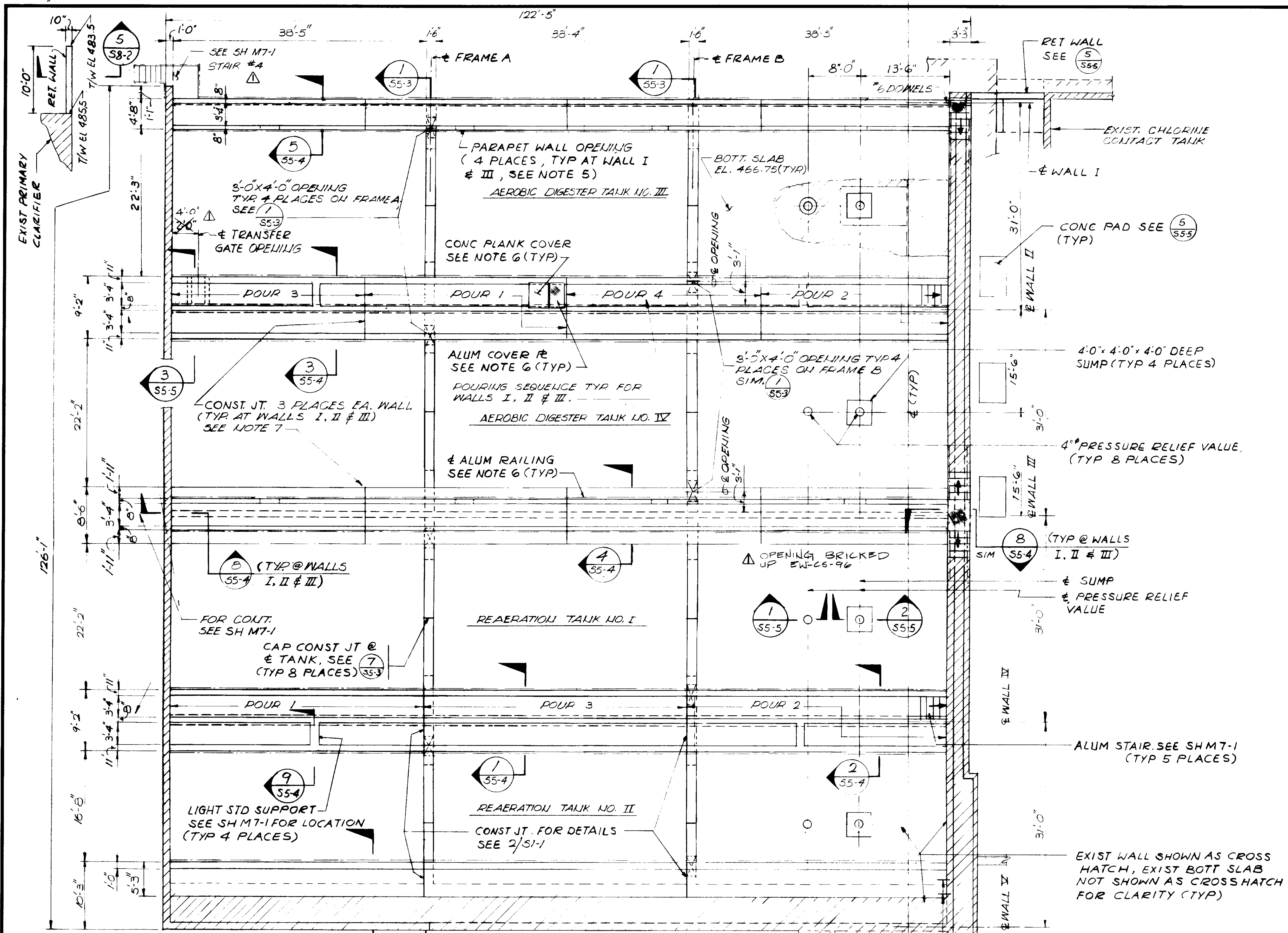
REFERENCE DRAWING : SCS4-11A
PLAN CLARIFICATION : PCL-C5-35

Yph Katsura
KATSURA CONSULTING ENGINEERS RCE 14038
March 1985

AEROBIC DIGESTER TANKS-ELEVATION, GALLERY NO. 8

SHEET

S4-11A

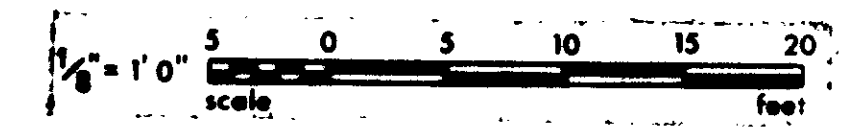


- NOTES:**
1. FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS, SEE S1 SERIES DRAWINGS
 2. FOR EXISTING STRUCTURE DETAILS SEE FOLLOWING DWGS. LAS VIRGENES MUNICIPAL WATER DISTRICT - TAPIA WATER RECLAMATION FACILITY SHEETS: (INCLUDED IN SET) R-1 THRU R-4 (SH S1 THRU S-4 - UNIT "A") R-6 THRU R-12 (SH 9 THRU 12 & 18 THRU 20 - EXP. I) R-13 THRU R-19 (SH 65 THRU 70 - EXP. II)
 3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
 4. FOR DEMOLITION DWG SEE SH 55-2
 5. FOR LOCATIONS AND DIMENSIONS OF WALL OPENING SEE SH M7-1. FOR REINF. AROUND WALL OPENING SEE DETAIL 3/S1-1.
 6. FOR LOCATIONS OF CONCRETE PLANKS, ALUMINUM TREAD PLATES AND RAILING POSTS SEE SHEET M7-1
 7. PROVIDE CONST JOINT BETWEEN EL. 474.00 AND EL. 486.75, LIKE UP CONSTRUCTION JOINT WITH EXISTING VERTICAL EXPANSION JOINT. FOR CONSTRUCTION JOINT DETAIL SEE 2/S1-1.

PLAN
1/8" = 1'-0"
AEROBIC DIGESTER & REAERATION TANKS

EXTEND EXIST. REINF. TO LIEW SLAB, SEE DETAIL 7/S5-4 (TYP. EACH END.)

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura
RCE 14038
KATSURA CONSULTING ENGINEERS
March 1985



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03103

REV	DATE	BY	DESCRIPTION

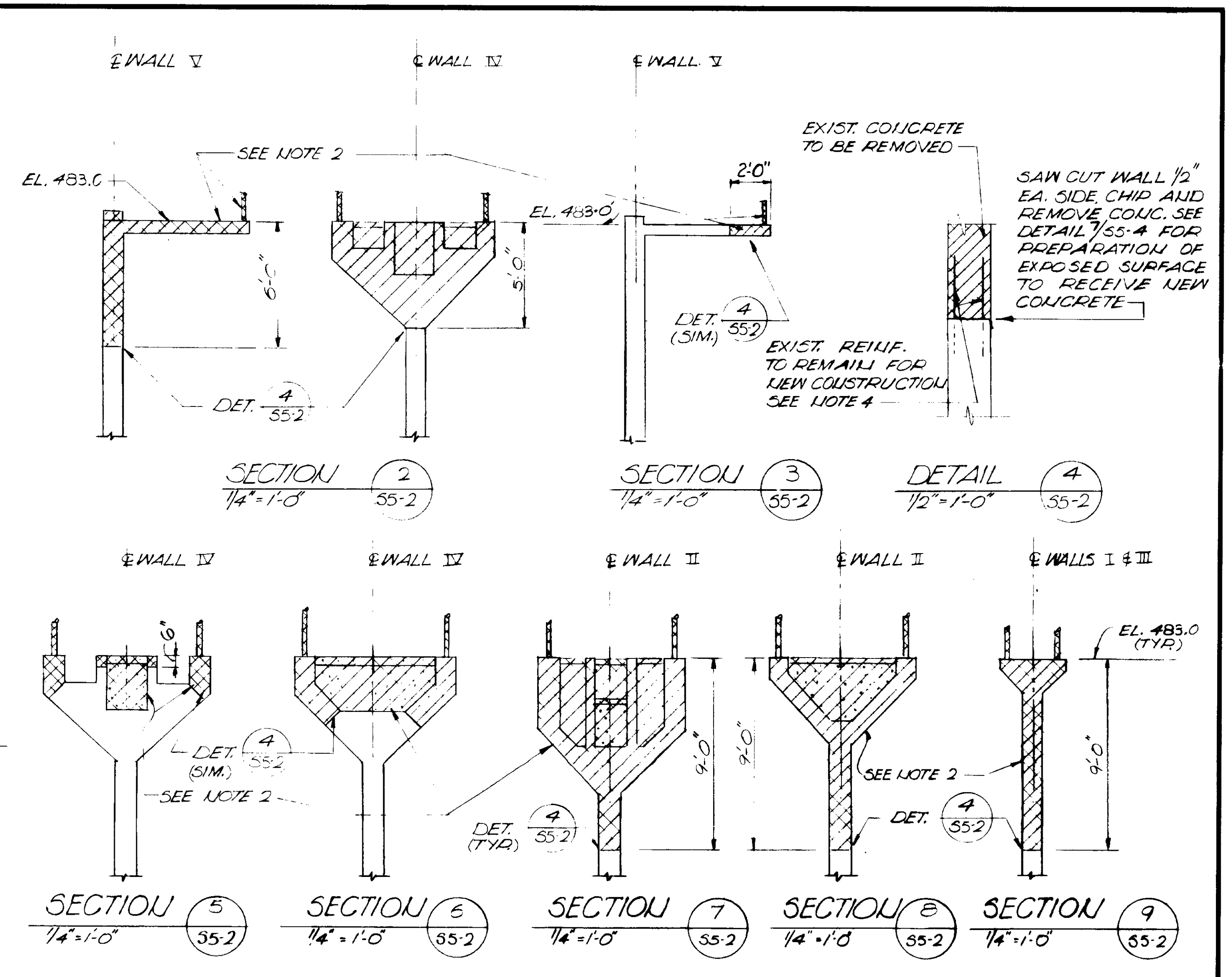
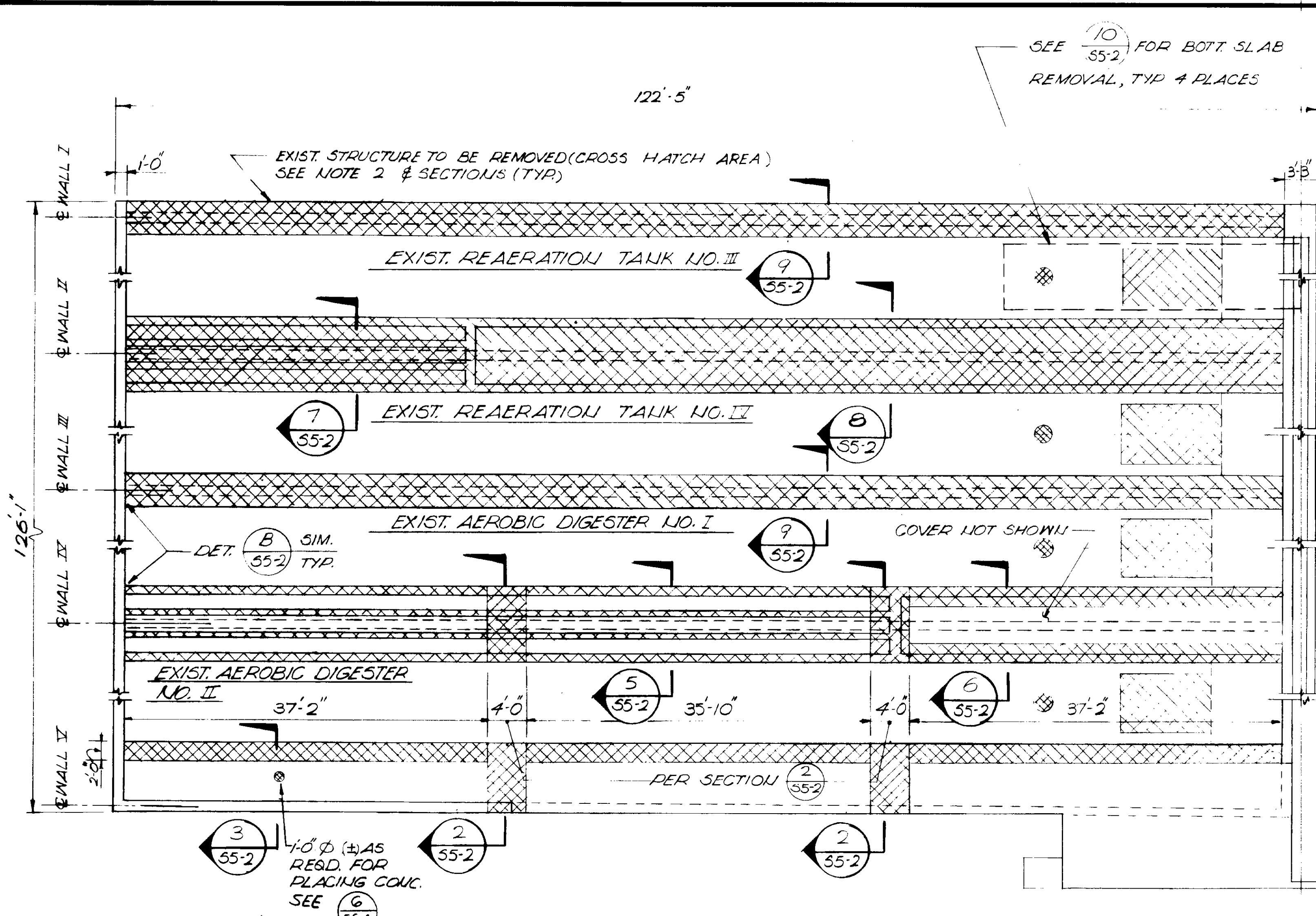
SCALE : 1/8" = 1'-0"	DESIGNED J. Ziebarth
	DRAWN E. UY
	CHECKED

SUBMITTAL <i>Yuh Katsura</i>	14038	8/15/79
PROJECT MANAGER	R.C.E. NO.	DATE
PROJECT ADMINISTRATOR <i>Yuh Katsura</i>	14884	8/15/79
	R.C.E. NO.	DATE

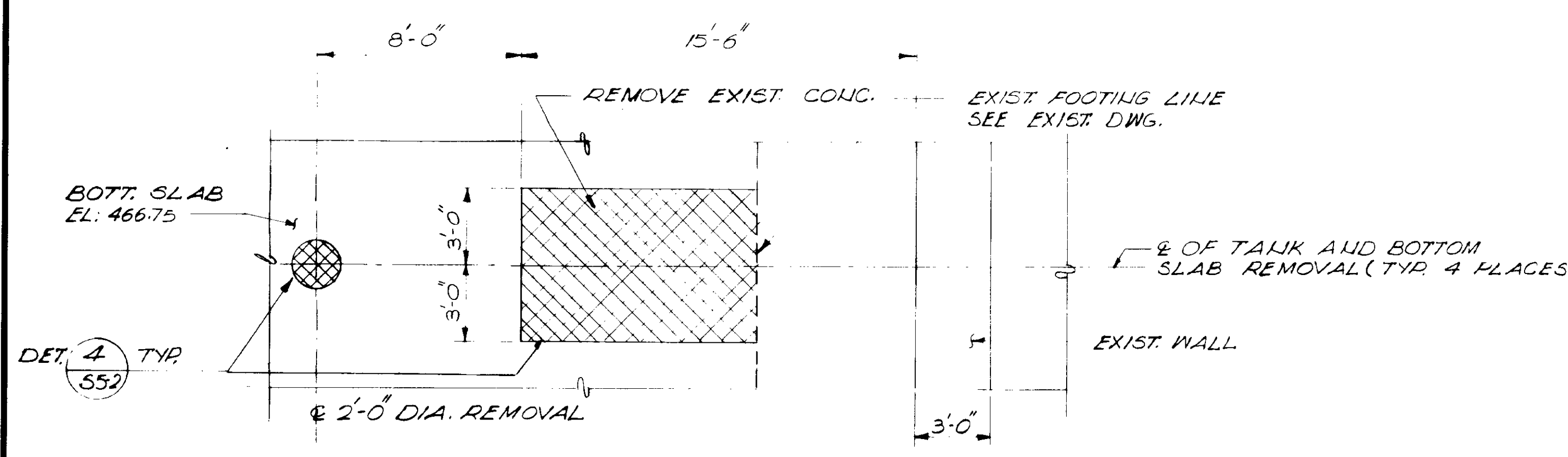
JKC CONSULTING ENGINEERS
A JOINT VENTURE
8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
UPGRADE EXIST. AEROBIC DIGESTERS & REAERATION TANKS
PLAN

SHEET
S5-1

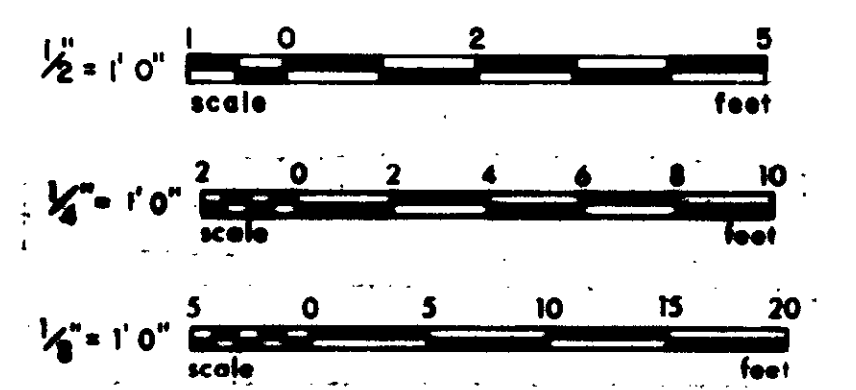


DEMOLITION PLAN 1/8" = 1'-0" (1) 55-2
 EXISTING AEROBIC DIGESTER & AERATION TANKS



PARTIAL PLAN 10/55-2
 1/4" = 1'-0"

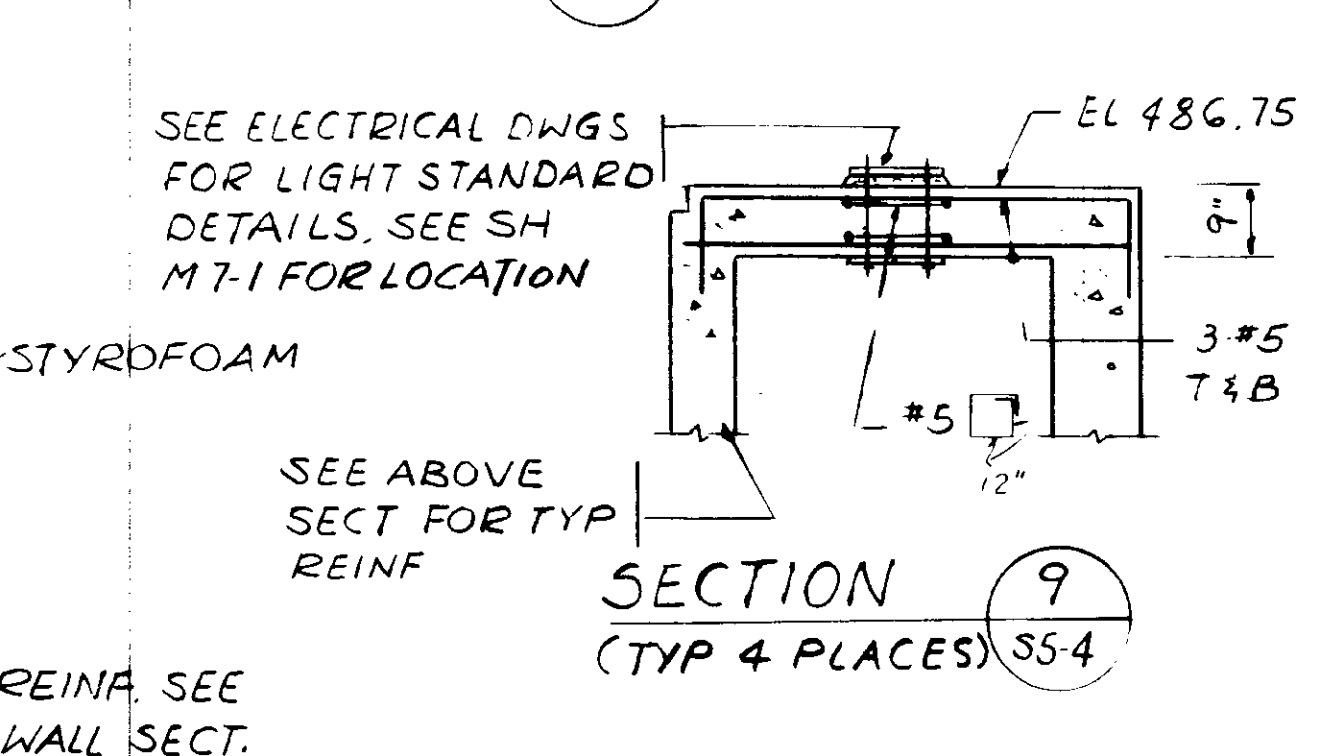
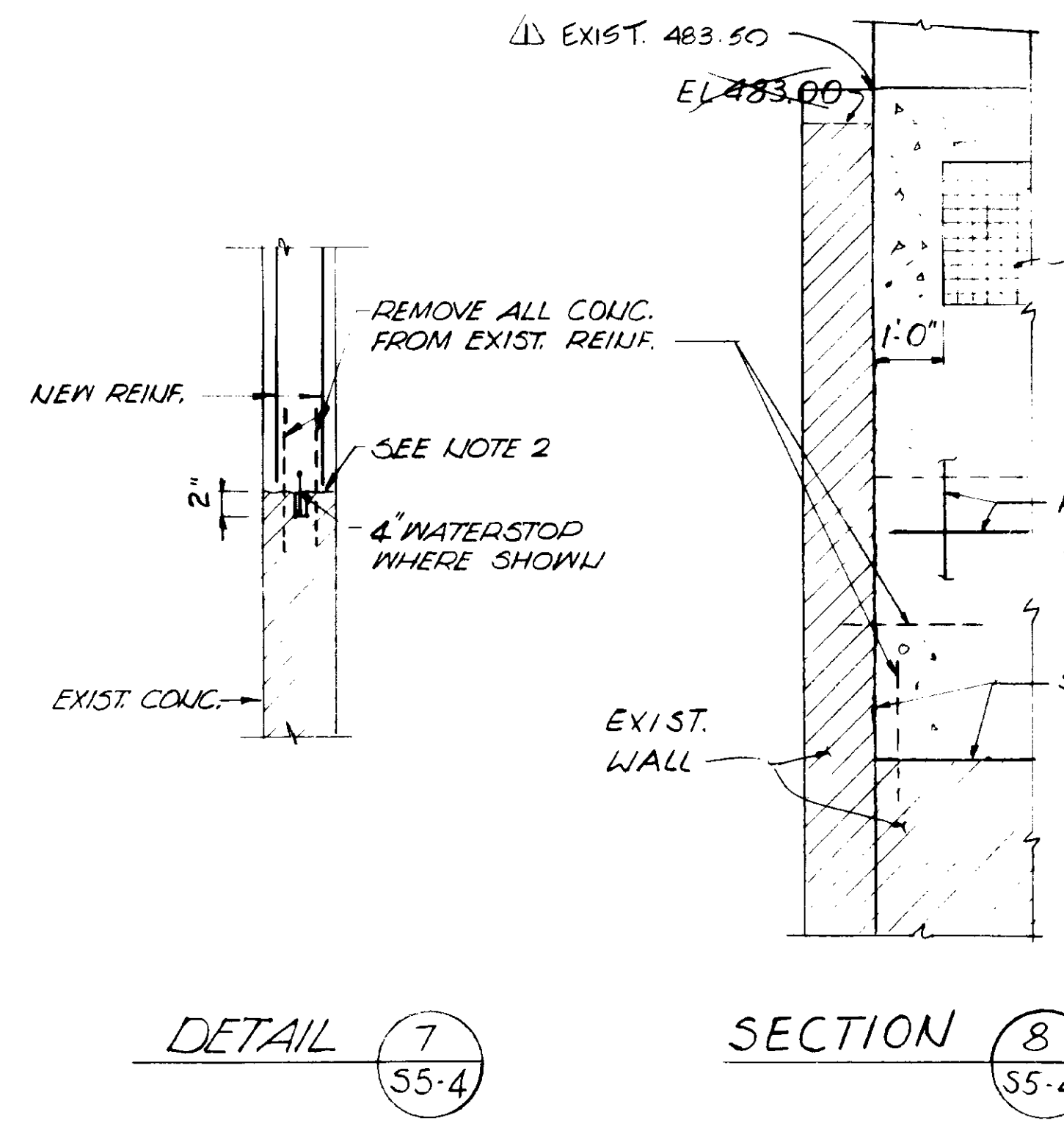
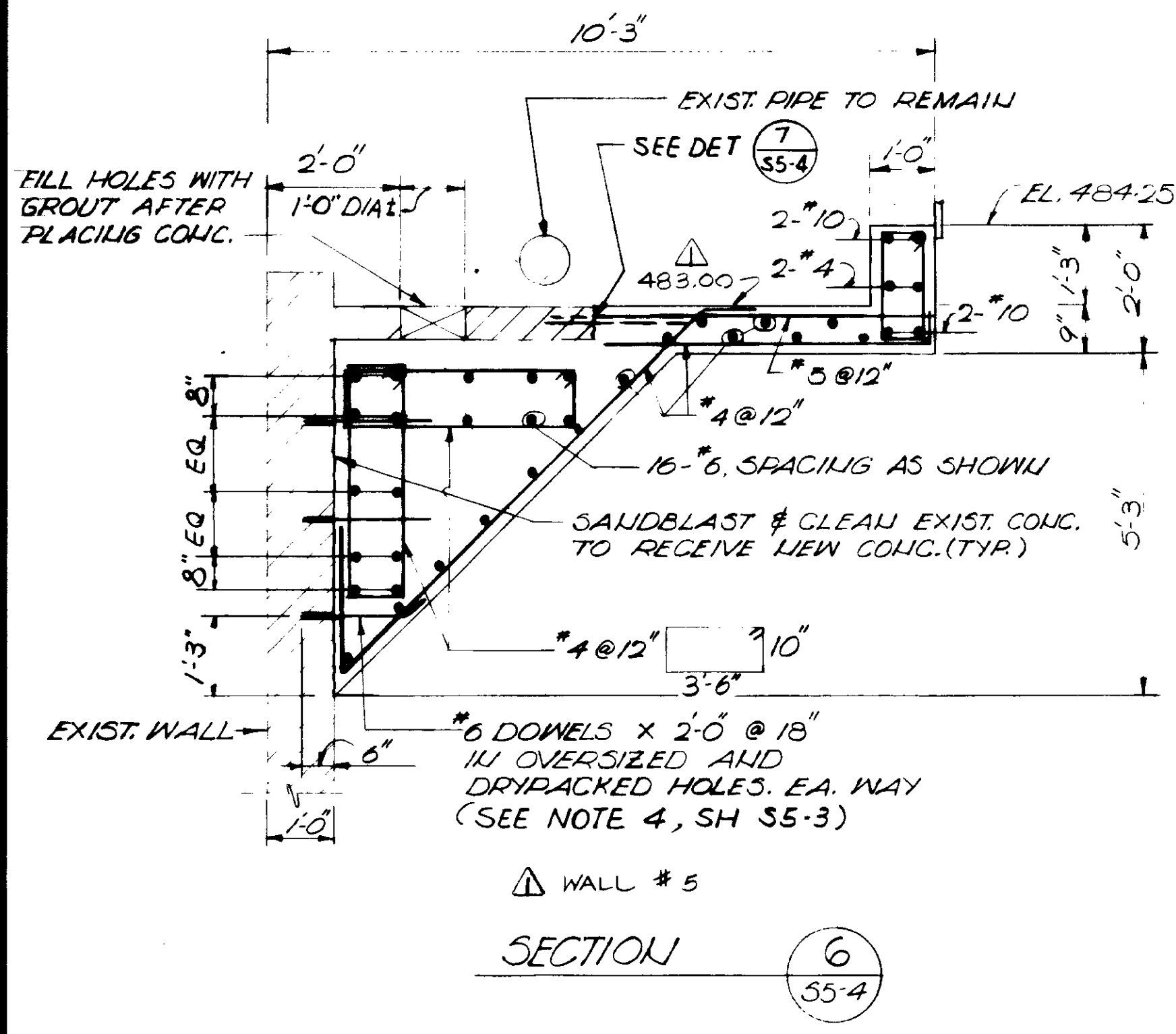
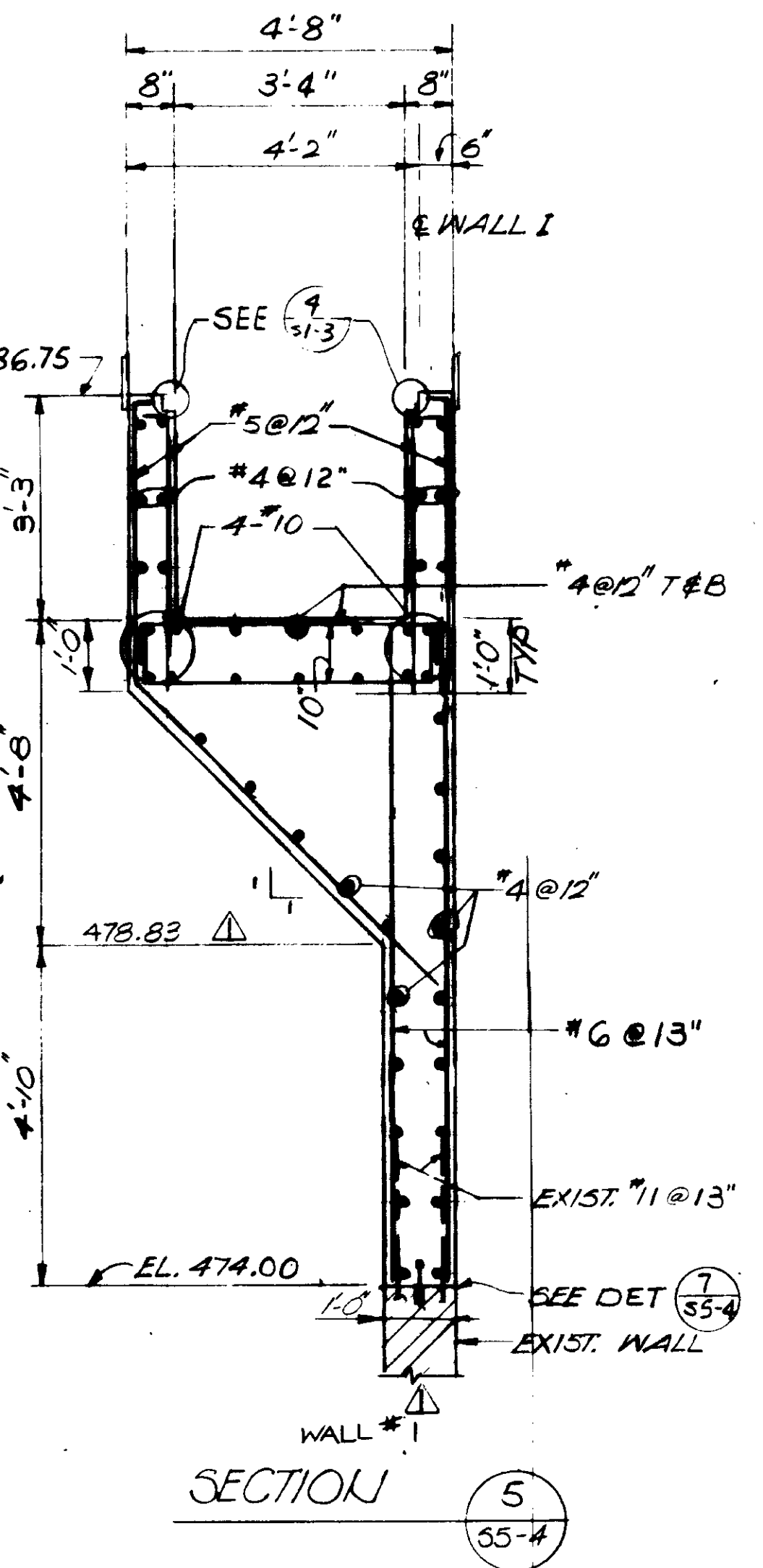
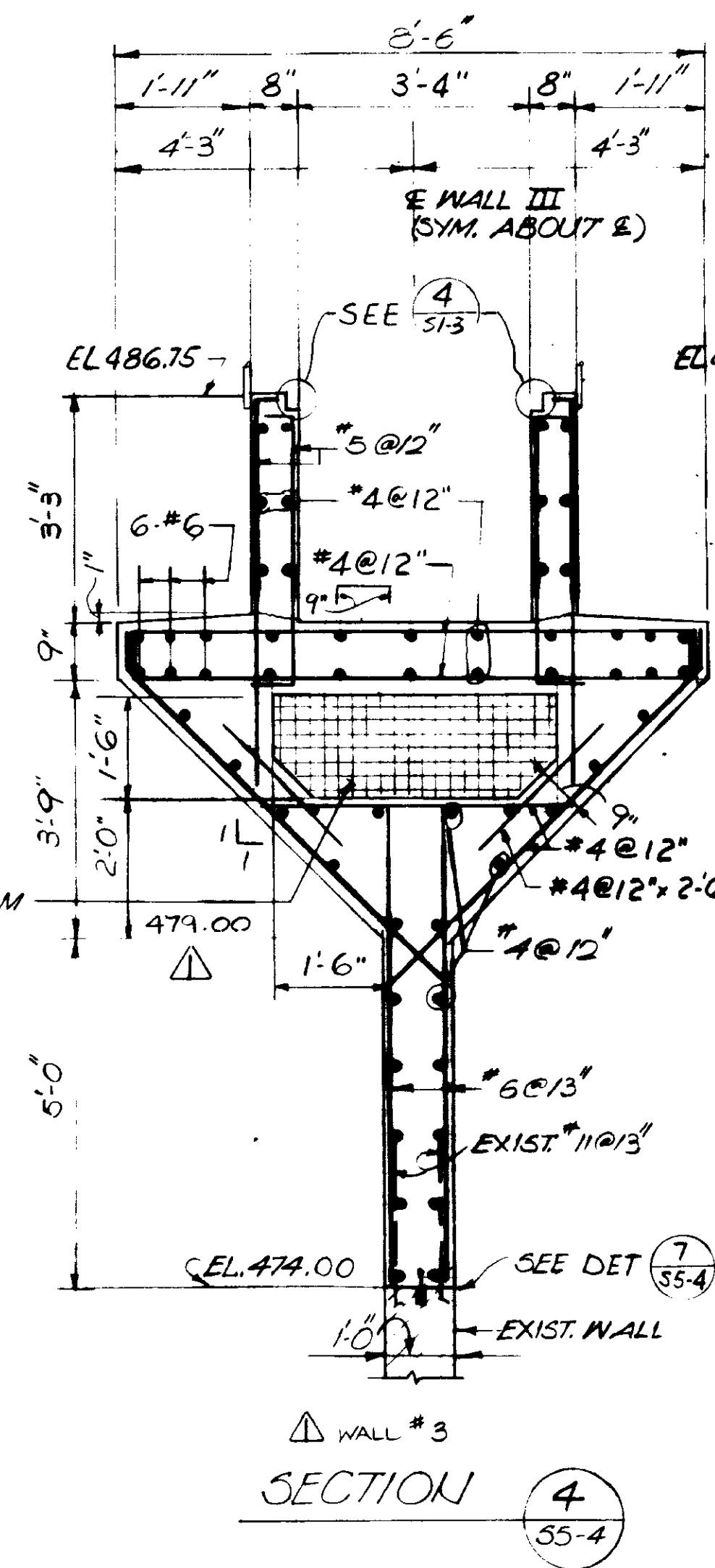
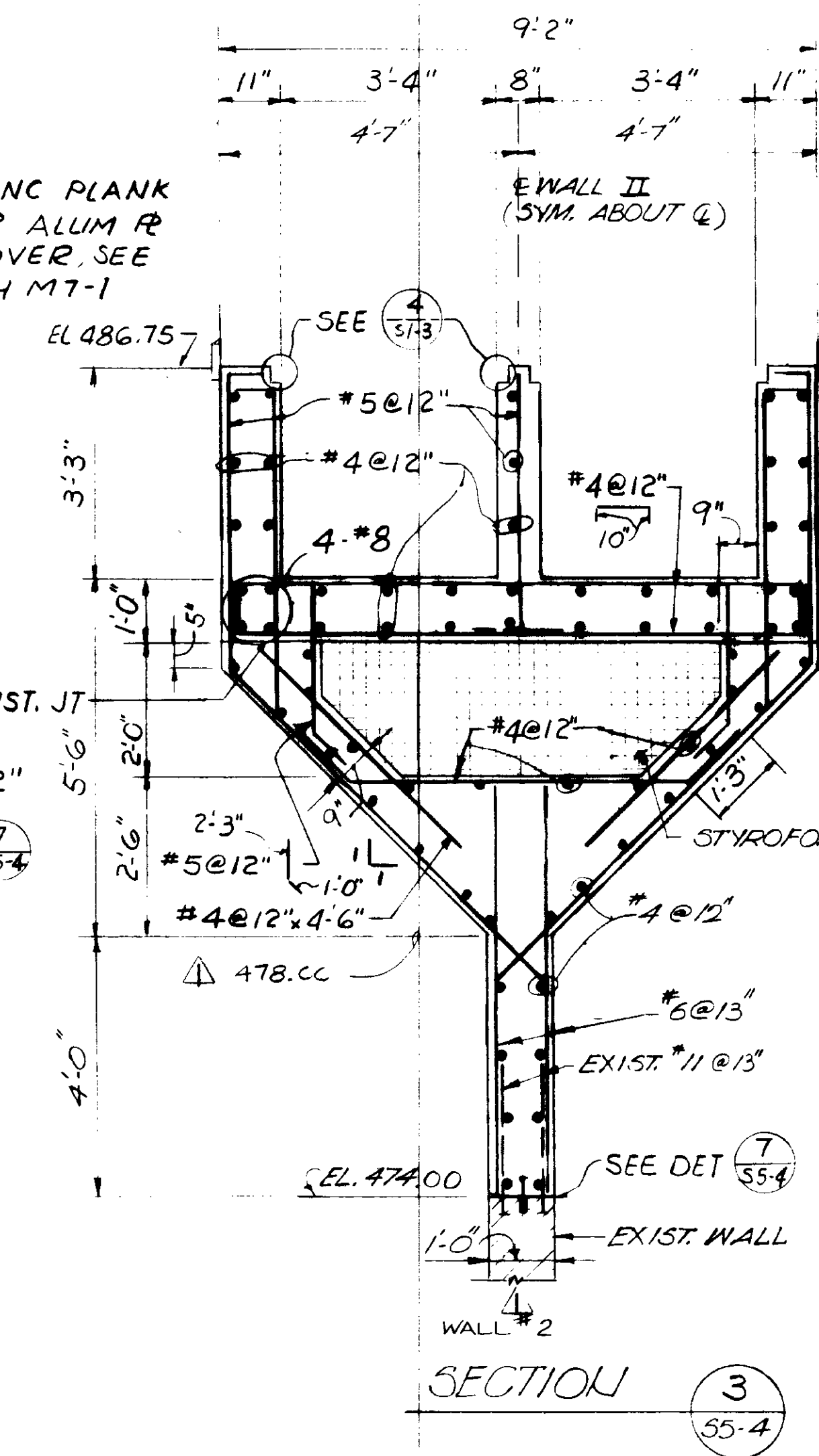
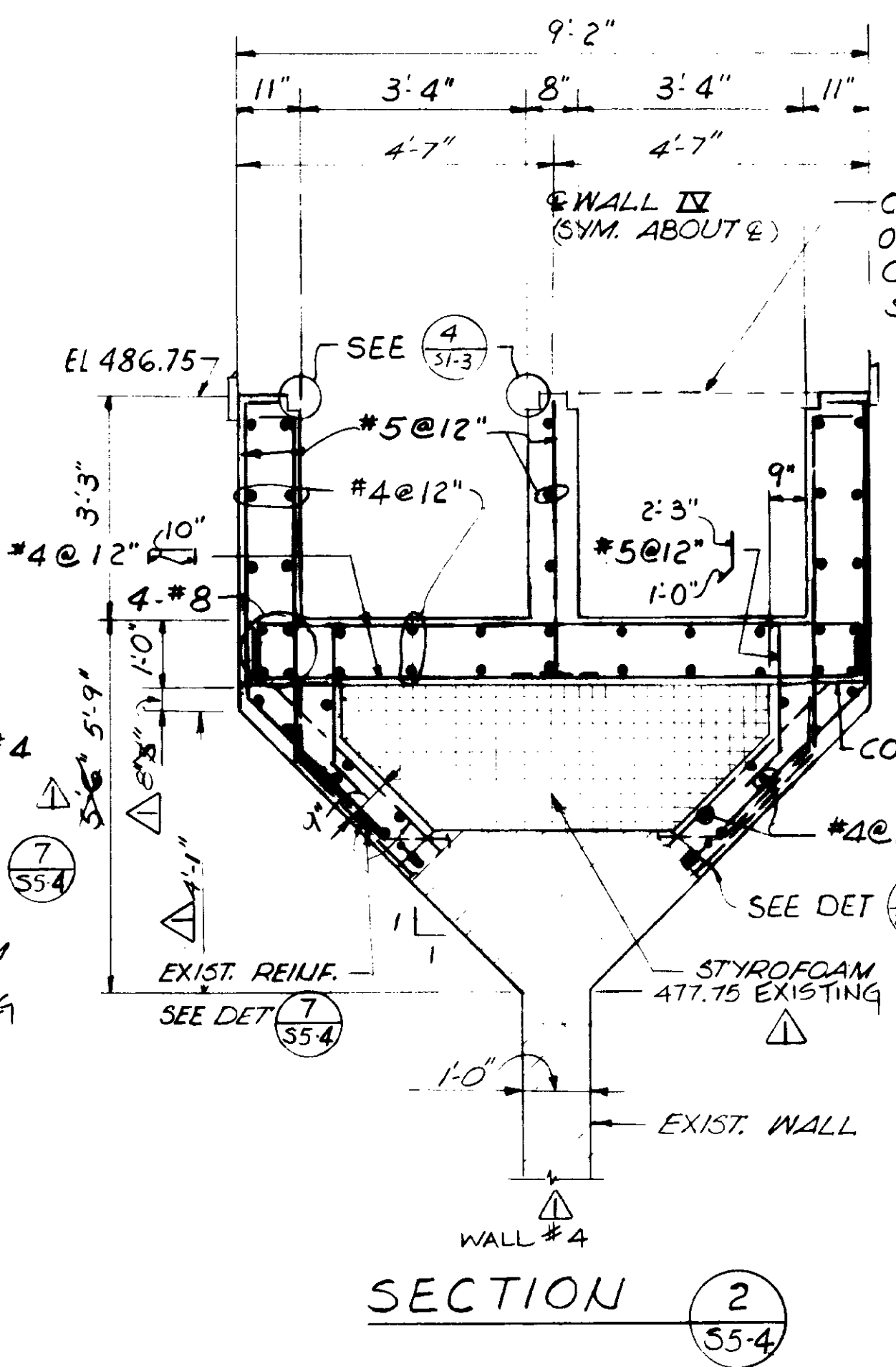
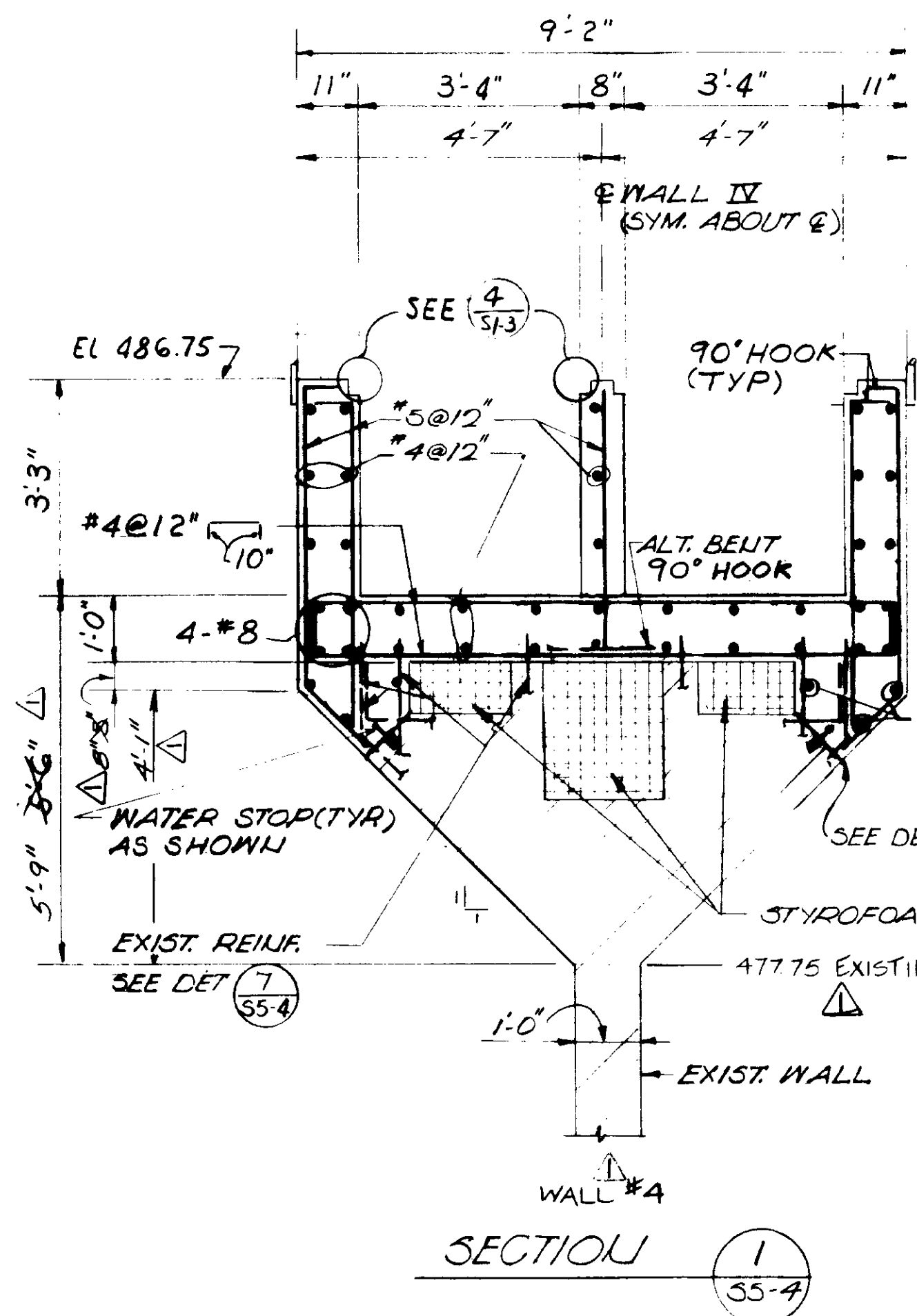
- NOTES:
- FOR ADDITIONAL NOTES SEE SH 55-1
 - REMOVE EXISTING CONCRETE, RAILING, SAND FILL AND COVER SHOWN IN CROSS HATCH. SEE DETAIL 4/55-2 FOR CONCRETE REMOVAL.
 - SEE SHEET FOR MECHANICAL EQUIPMENTS, PIPING AND MISC. ITEMS TO BE REMOVED AND SALVAGED. THE CONTRACTOR SHALL NOT DAMAGE OR INJURE THESE SALVAGEABLE ITEMS, THEY SHALL BE PROTECTED AND STORED BY THE CONTRACTOR WITHIN THE AREA AS DIRECTED BY THE DISTRICT ENGINEER.
 - PORTION OF EXISTING REINFORCEMENT SHALL REMAIN AND BE CLEANED FOR NEW CONSTRUCTION AS SHOWN. WHERE THERE IS NO NEW CONSTRUCTION EXISTING REINFORCEMENT SHALL BE BURIED OFF TO 1" BELOW SURFACE AND SURFACE SHALL BE REPAIRED.



RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
 Yuh Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988
 GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03104

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	SCALE: AS NOTED	DESIGNED: J. O. G.	CHECKED: E. J. Y.	SUBMITTED: Yuh Katsura	PROJECT MANAGER: Yuh Katsura	PROJECT ADMINISTRATOR: Yuh Katsura	14038	8/15/79	14884	8/15/79	CONSULTING ENGINEERS A JOINT VENTURE 6601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. UPGRADE, EXIST. AEROBIC DIGESTERS & REAERATION TANKS DEMOLITION PLAN & DETAILS	SHEET S5-2
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NOTES:

- FOR ADDITIONAL NOTES SEE SH 55-1
- SAW CUT, CHIP AND REMOVE CONC. TO FORM A 2" x 1/2" CONTINUOUS SLOT ALONG CENTER LINE OF WALL. CLEAN AND SANDBLAST SURFACE OF JOINT TO EXPOSE AGGREGATE FIRMLY EMBEDDED IN MORTAR MATRIX. WET JOINT 2 HOURS BEFORE PLACING NEW CONC. AND PROVIDE SLUSH COAT OF 1:2 MORTAR ON JOINT & IN SLOT AROUND WATER STOP IMMEDIATELY PRIOR TO PLACING OF NEW CONC. SEE DETAIL 7/55-4

RECORD DRAWINGS
 Per Field Information Provided By Morley-Zloberth & Alper
Yard Katsura
 KATSURA CONSULTING ENGINEERS RCE 14088
 March 1988



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03106

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

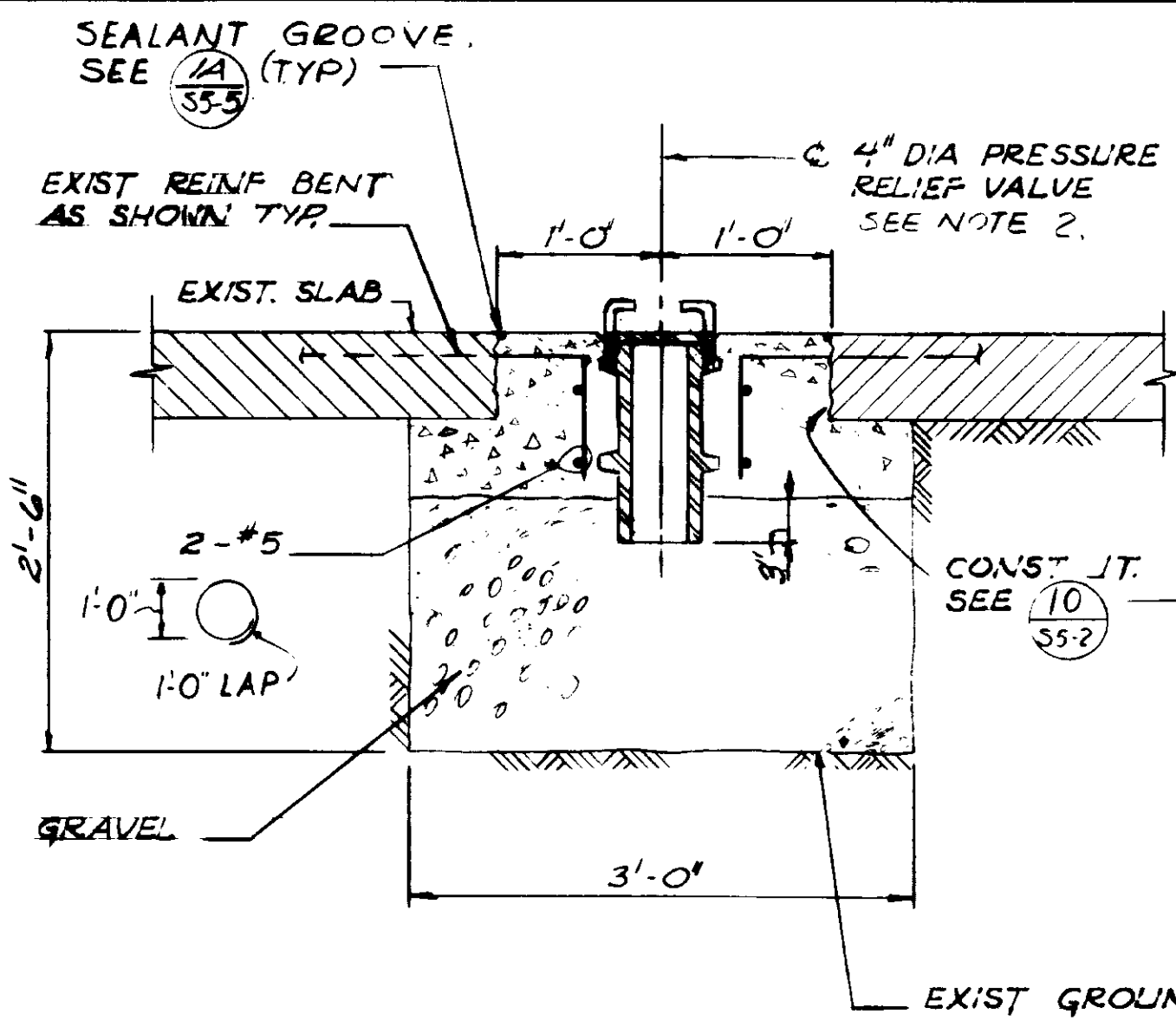
SCALE: 1/2" = 1'-0"	DESIGNED: GUY J. CUSH	SUBMITTED: 14038 8/15/79
DRAWN: GUY	CHECKED: GUY	PROJECT MANAGER: J. CUSH
		PROJECT ADMINISTRATOR: J. CUSH
		R.C.E. NO. DATE: 14084 8/15/79

JK CONSULTING ENGINEERS
 A JOINT VENTURE
 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
 (213) 833-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 UPGRADE, EXIST. AEROBIC DIGESTERS & REAERATION TANKS
 SECTIONS & DETAILS

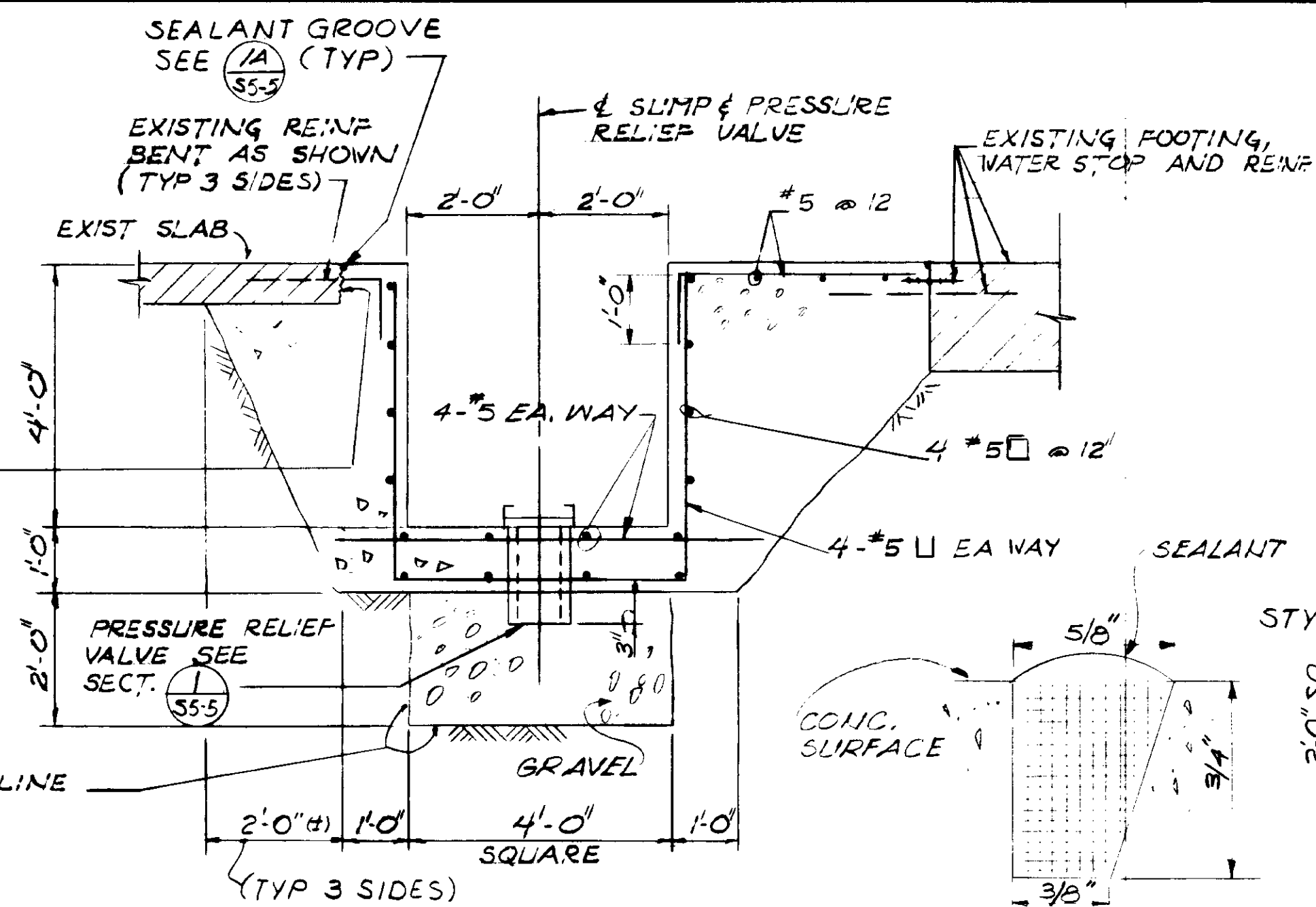
SHEET
S5-4

SH. 14 OF 20



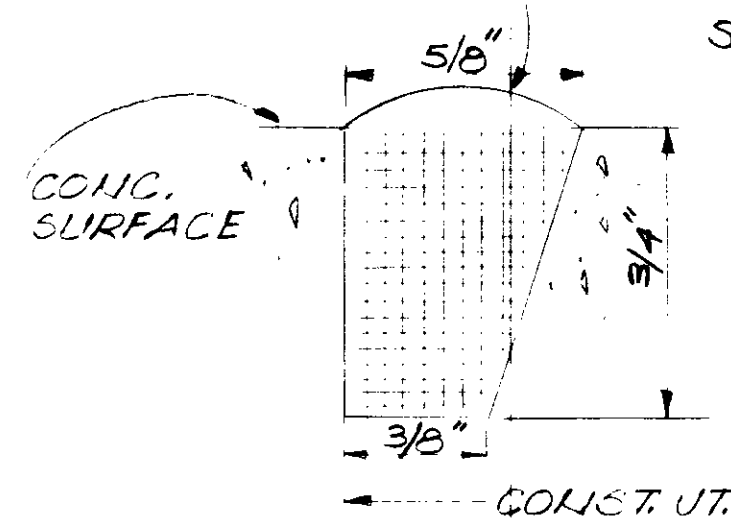
SECTION 1
1" = 1'-0" S5-5

PRESSURE RELIEF VALVE

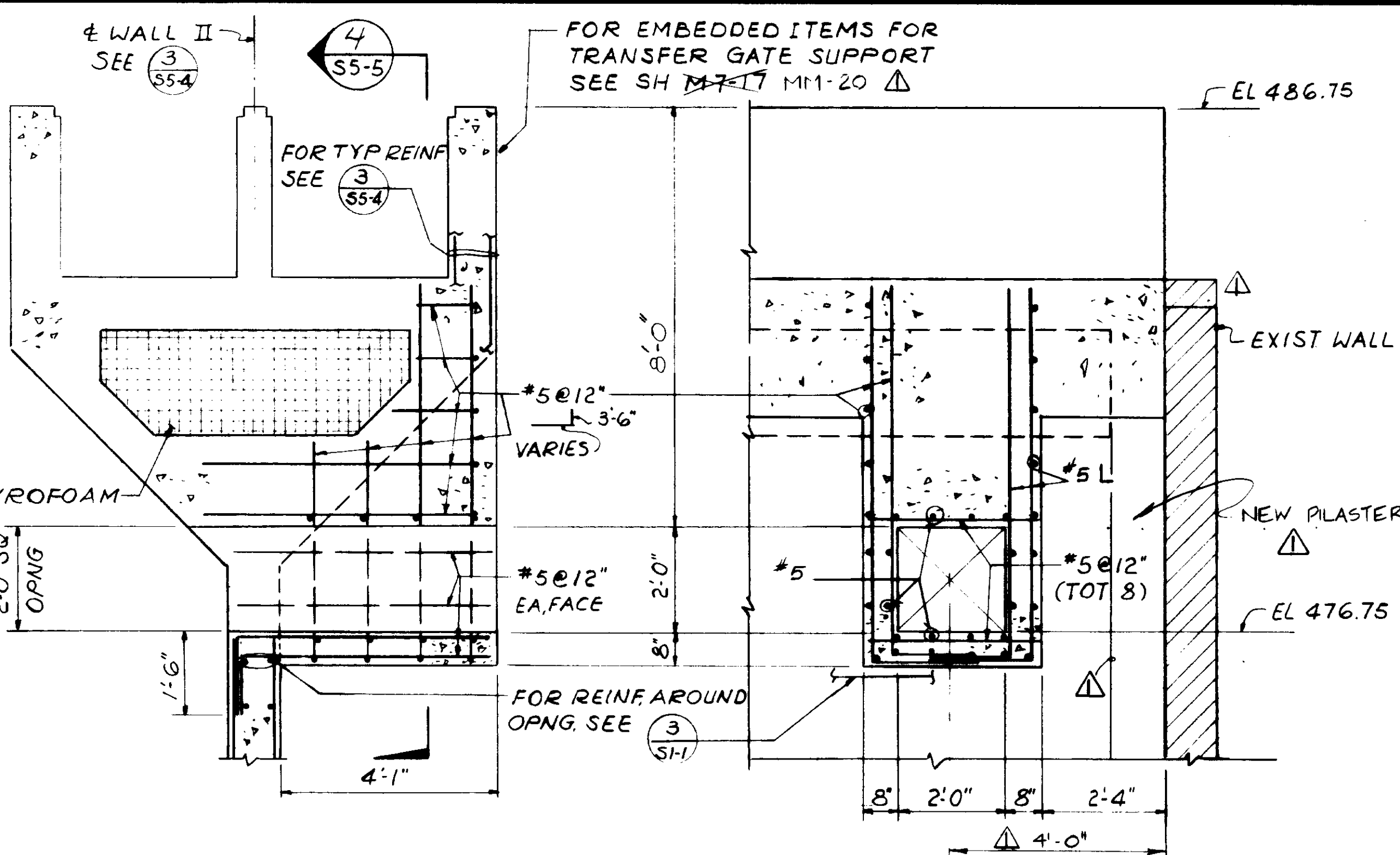


SECTION 2
1/2" = 1'-0" S5-5

SUMP

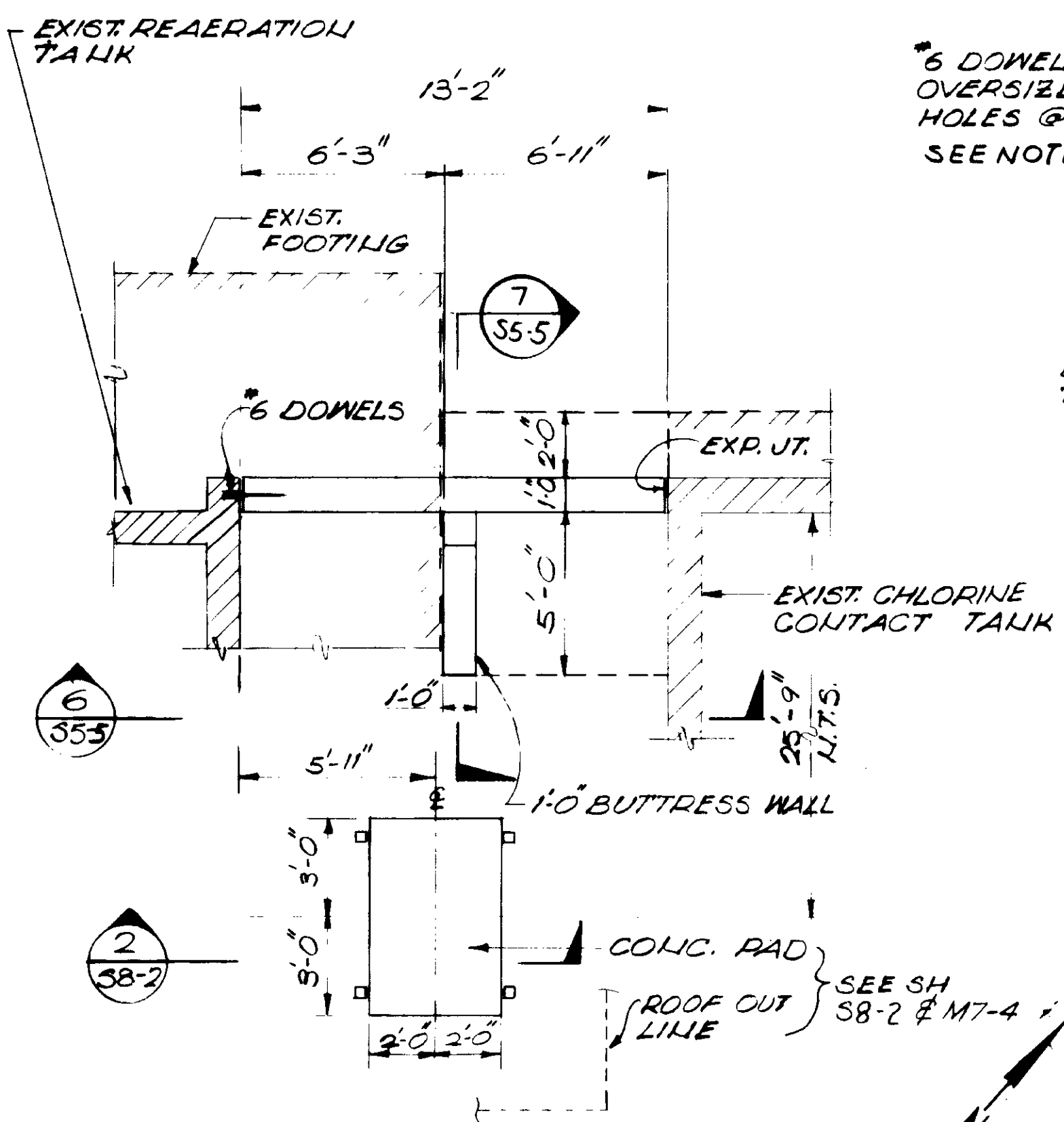


DETAIL 1A
NO SCALE S5-5

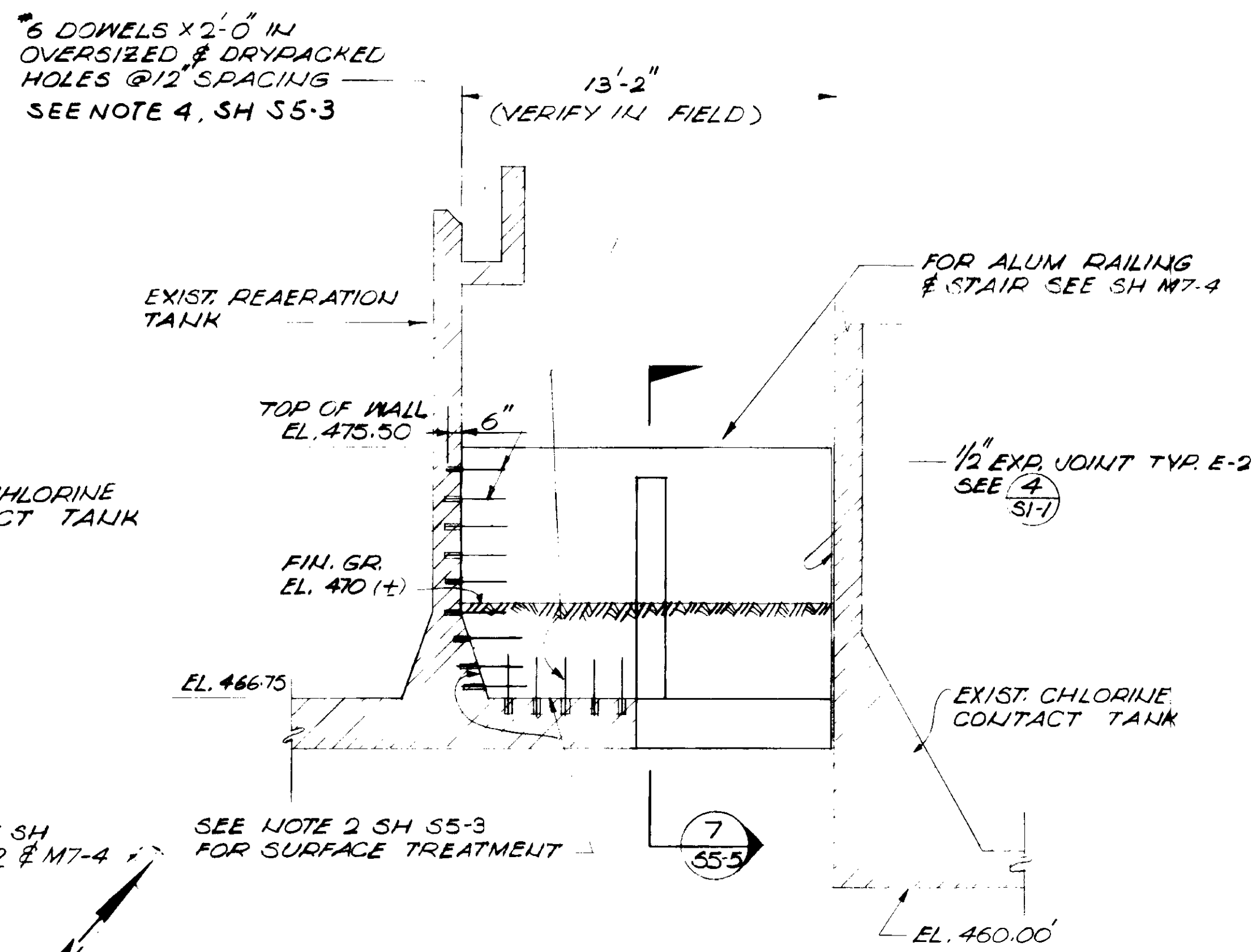


SECTION 3
1/2" = 1'-0" S5-5

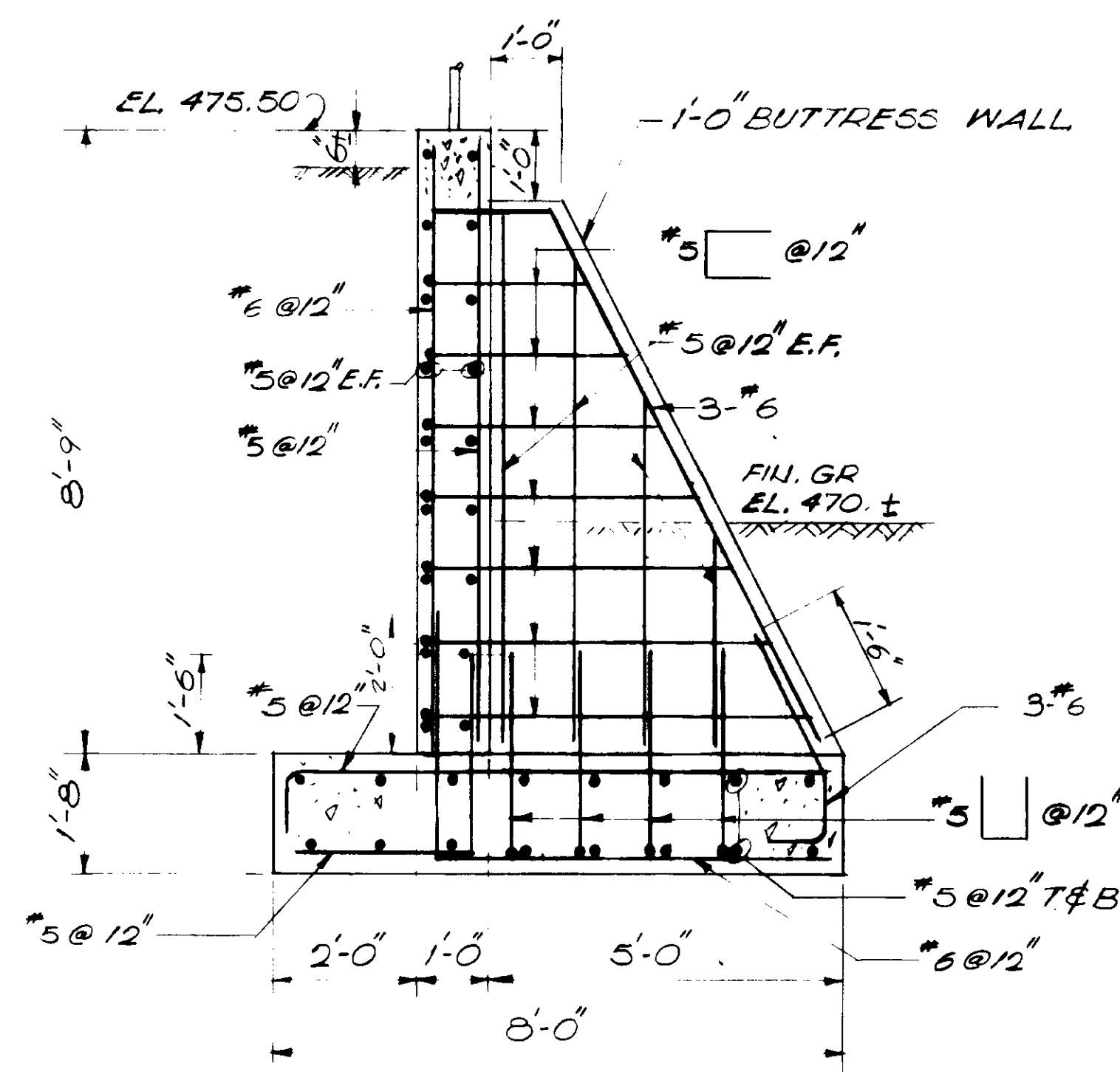
SECTION 4
1/2" = 1'-0" S5-5



PARTIAL PLAN 5
1/4" = 1'-0" S5-5



SECTION 6
1/4" = 1'-0" S5-5



SECTION 7
1/2" = 1'-0" S5-5

- NOTES
- FOR NOTES SEE SHEET S5-1
 - 4" DIA PRESSURE RELIEF VALVE SHALL BE ONE OF THE FOLLOWING
 - "ALHAMBRA" TYPE A-3631
 - "NEENAH" R500-1 TYPE A VALVE W/ SOLID BRONZE COVER
 - APPROVED EQUAL

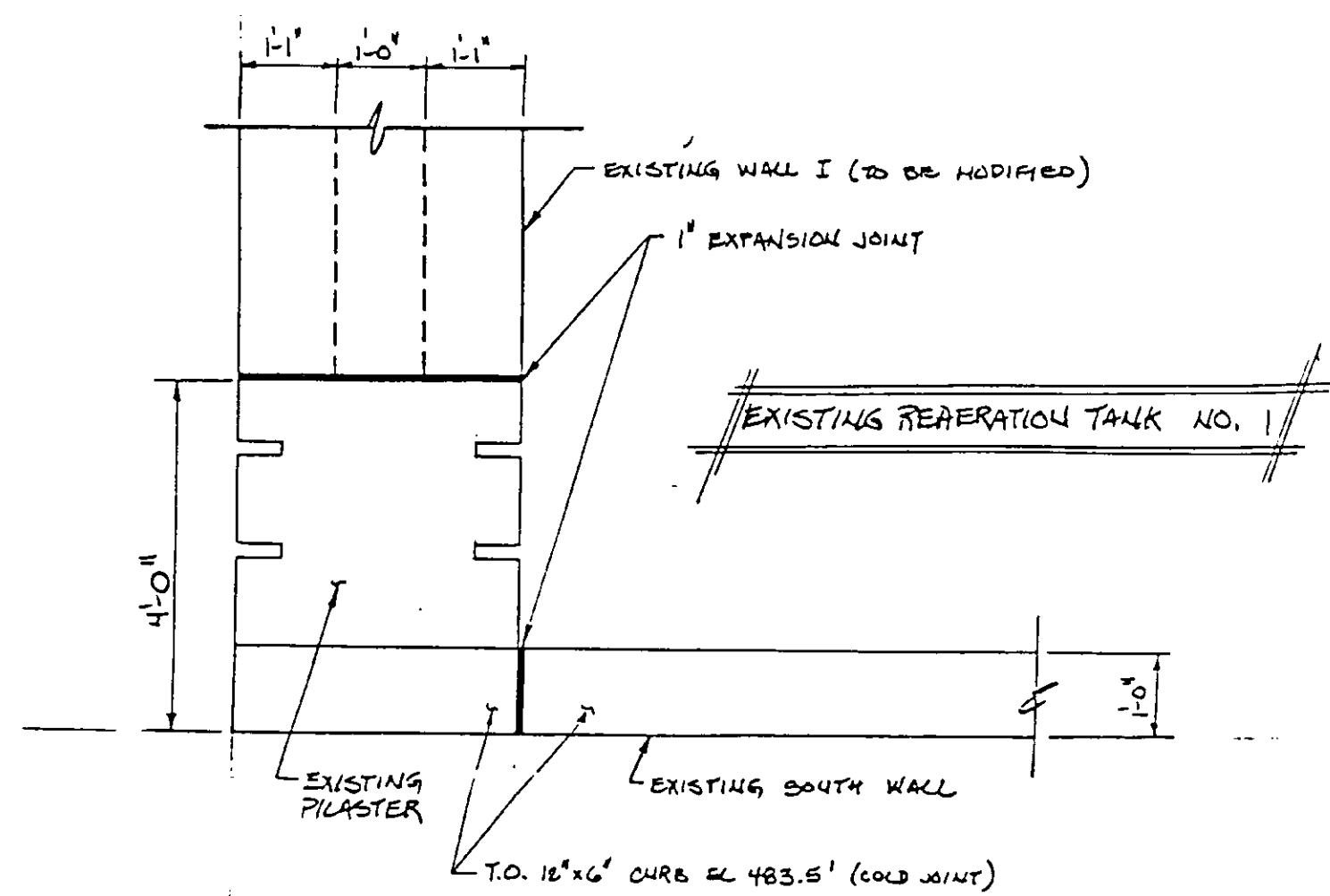
RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alger
Yuph Katsura
RCE 14038
KATSURA CONSULTING ENGINEERS March 1988

1" = 1'-0" scale
1/2" = 1'-0" scale
1/4" = 1'-0" scale

GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

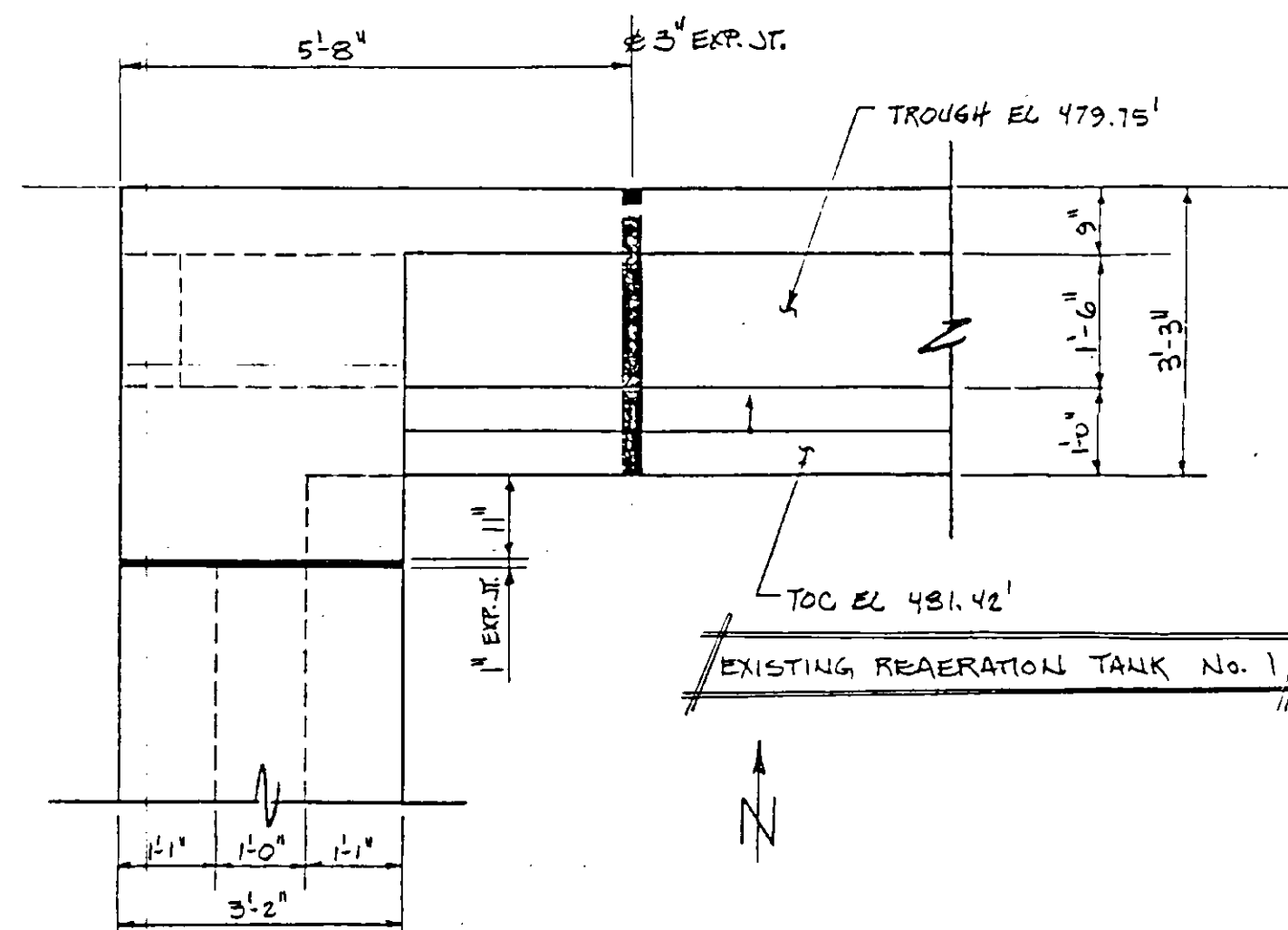
03107

SCALE: AS NOTED	DESIGNED: S.U.Y.	SUBMITTED: 14038 8/15/79	CONSULTING ENGINEERS A JOINT VENTURE 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.	SHEET S5-5
REVISIONS:	CHECKED: S.U.Y.	PROJECT MANAGER: 14894 8/15/79			
REV. DATE BY DESCRIPTION	REV. DATE BY DESCRIPTION	PROJECT ADMINISTRATOR: S.U.Y.			



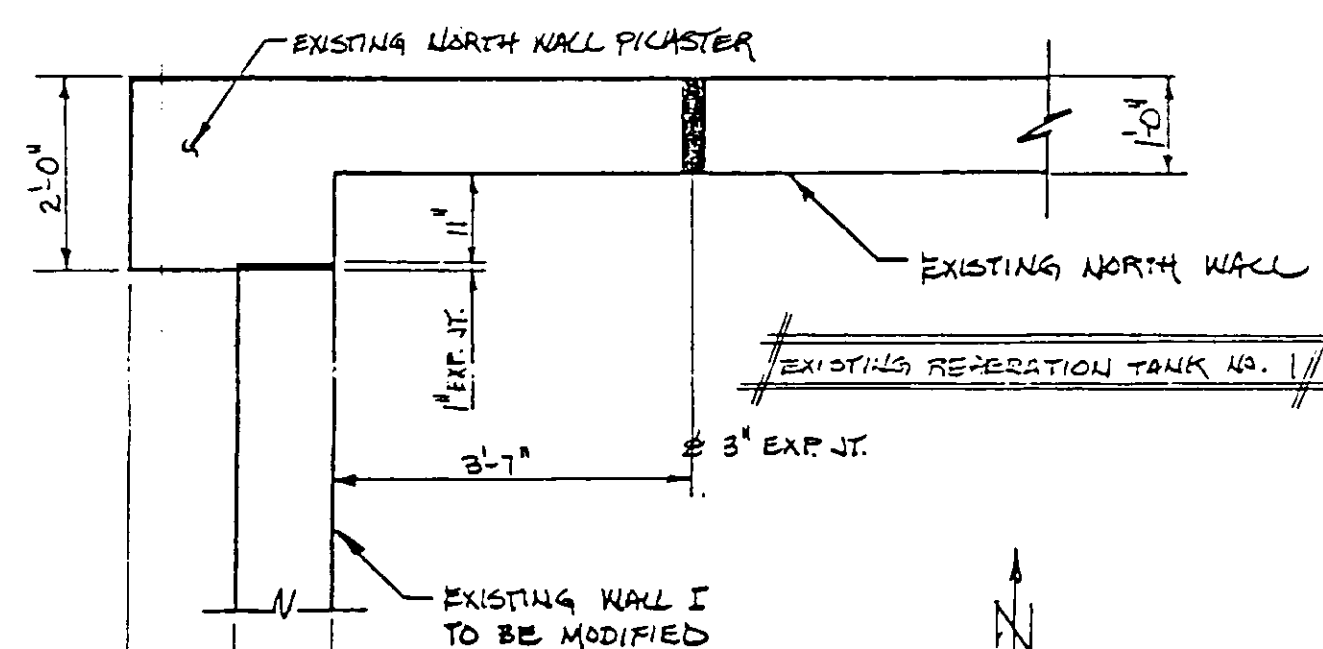
TOP PLAN AT EL. 483.0' (UON)
(EXISTING CONDITION - BEFORE DEMOLITION)

DEMOLITION OF WALLS @ EXISTING DIGESTERS
REFERENCE DRAWING : SK55-25
PLAN CHANGE : PCH-C5-56



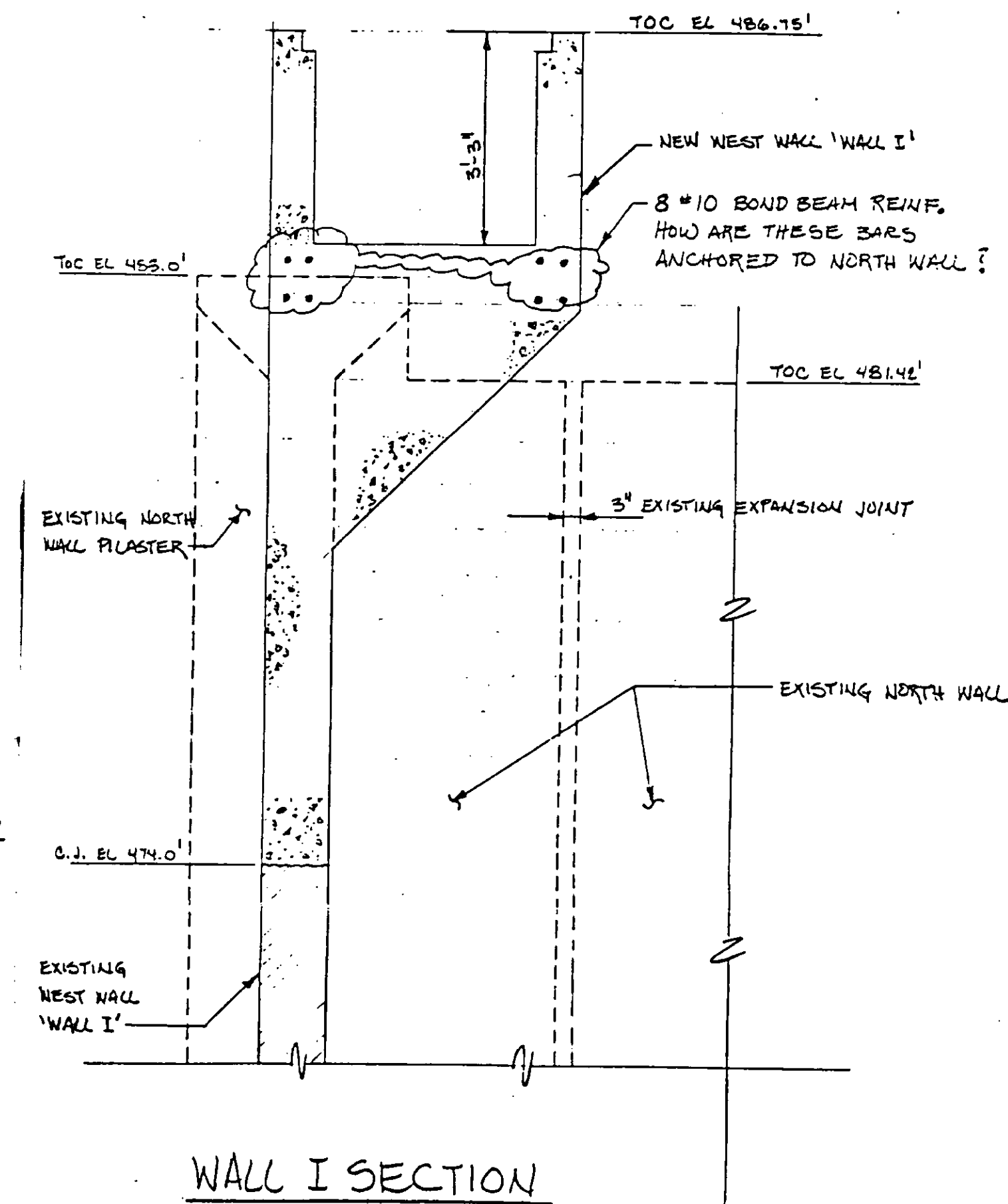
TOP PLAN AT EL. 483.0' (UON)
(EXISTING CONDITION - BEFORE DEMOLITION)

NOTE: THE BOND BEAM ANCHORAGE PROBLEM IS TYPICAL FOR BOTH THE NORTH AND SOUTH ENDS AND TYPICAL FOR ALL MODIFIED (UPGRADED) WALLS.



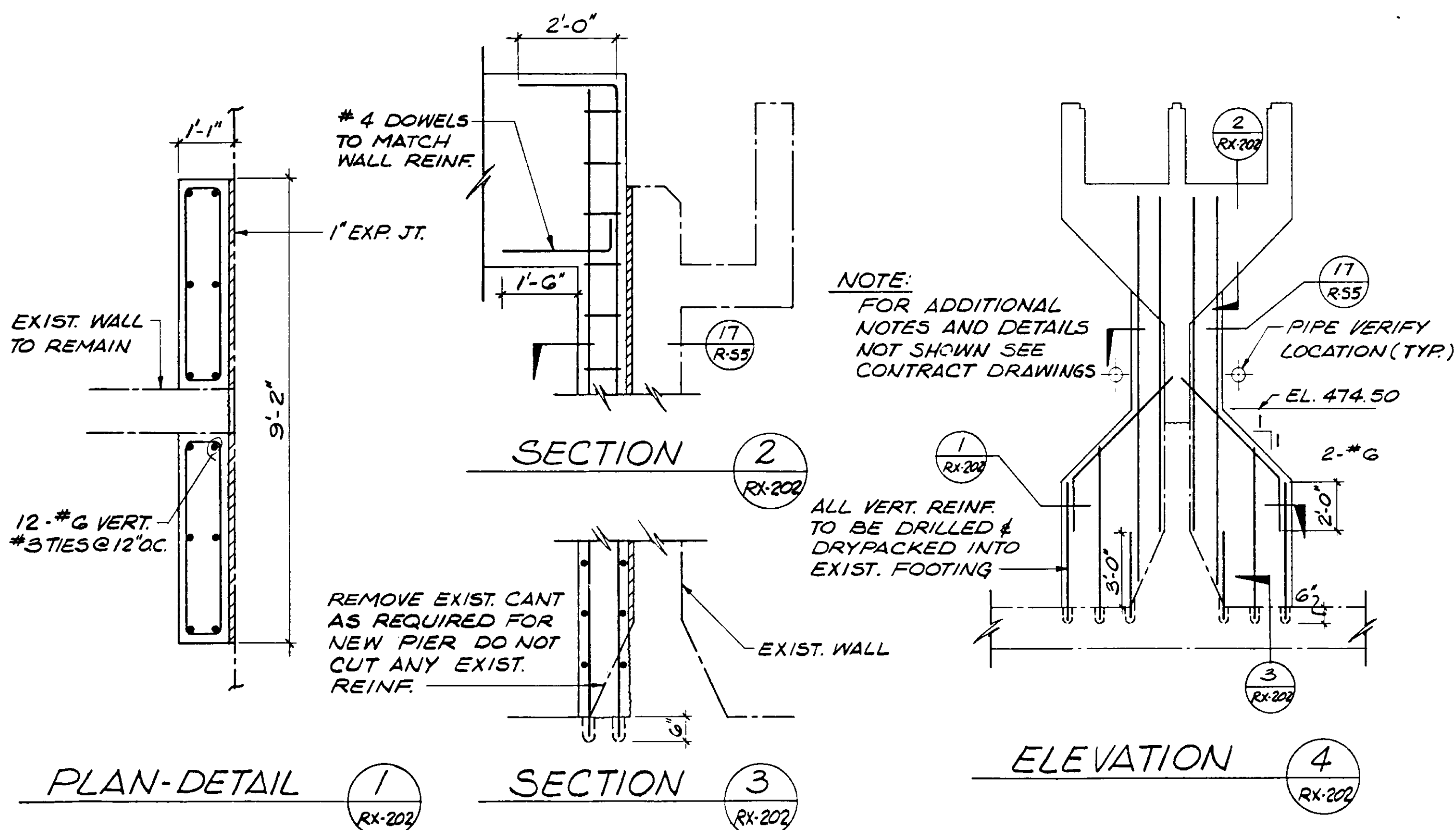
PLAN SECTION - EXIST. COND.

DEMOLITION OF WALLS @ EXISTING DIGESTERS
REFERENCE DRAWING : SK55-2A
PLAN CHANGE : PCH-C5-56



WALL I SECTION
(NORTH WALL ELEVATION BEYOND)

DEMOLITION OF WALLS @ EXISTING DIGESTERS
REFERENCE DRAWING : SK55-2C
PLAN CHANGE : PCH-C5-56



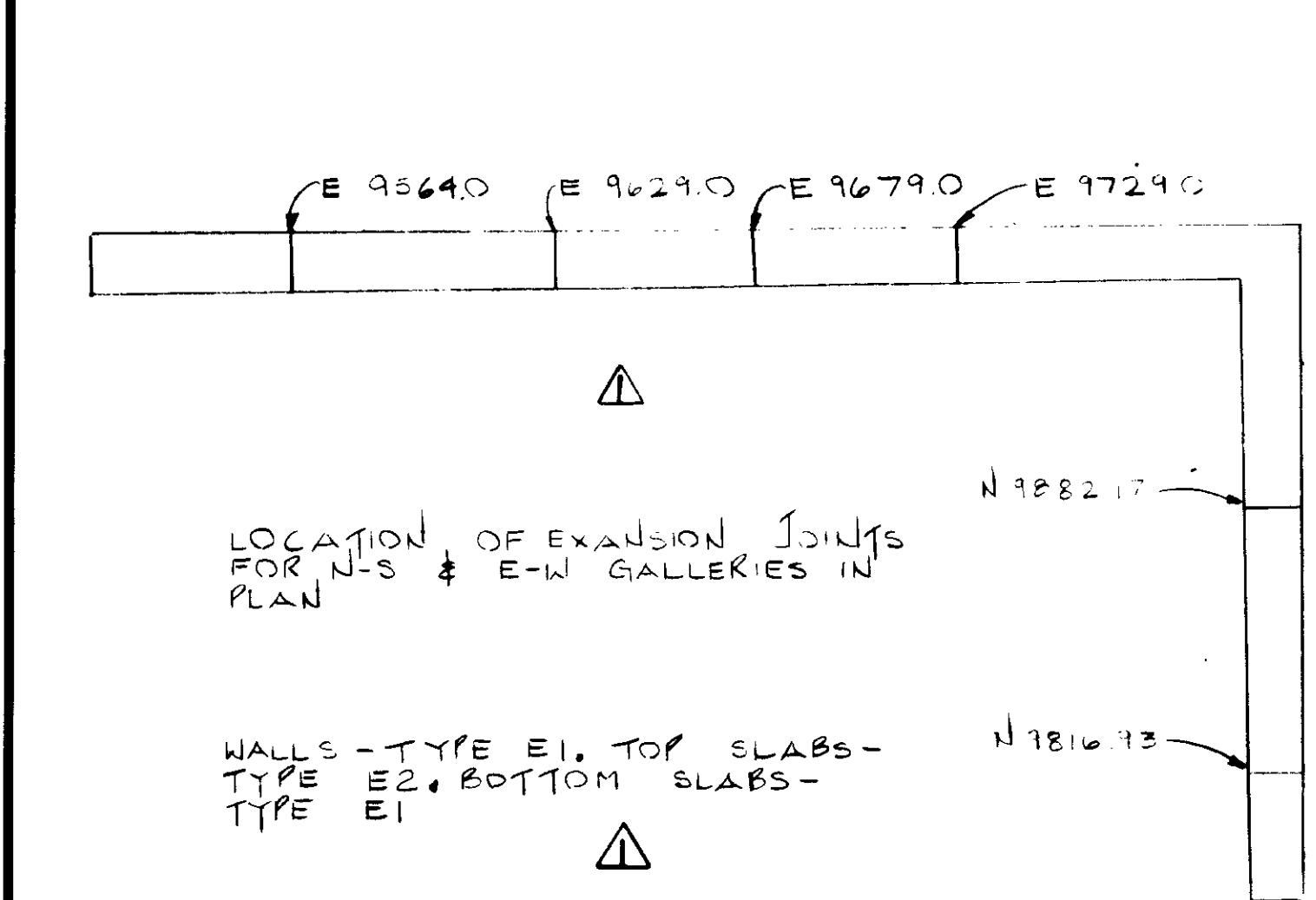
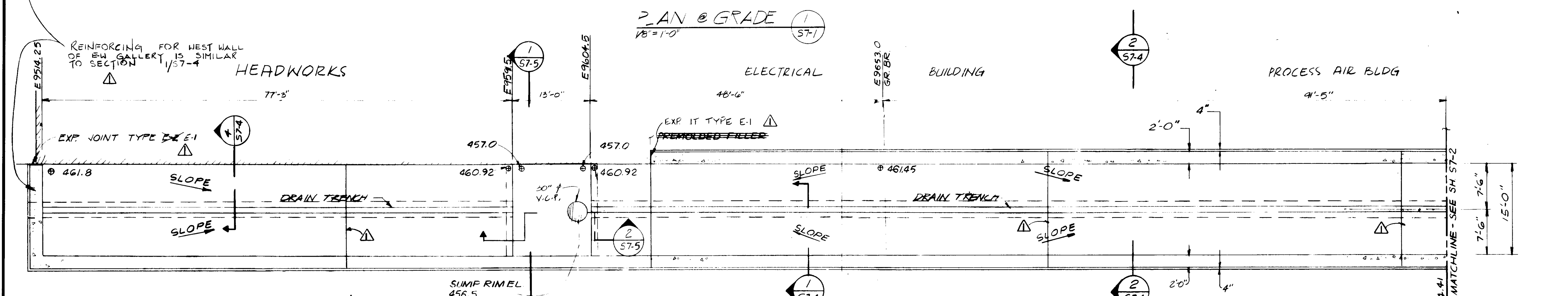
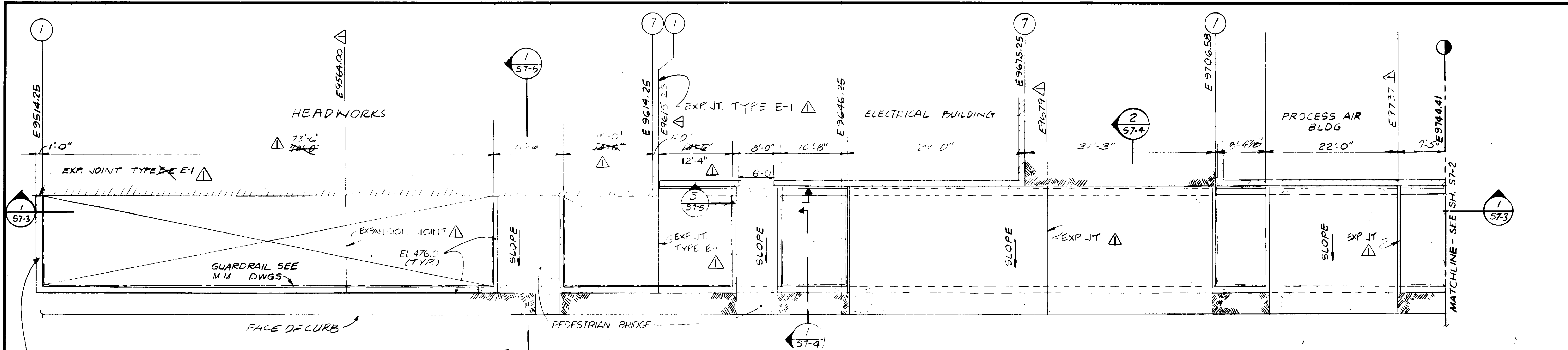
DETAILS AT NORTH END OF WALL II
REF. R-55, PCL-JKS-57, PCH-C5-56/76
REFERENCE DRAWING : RX-202
PLAN CHANGE : PCH-C5-72

03109

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Ynd Katsura
KATSURA CONSULTING ENGINEERS
RCE 14098
March 1988

UPGRADE, EXISTING AEROBIC DIGESTERS & REAERATION TANKS
PLANS - SECTION - ELEVATIONS

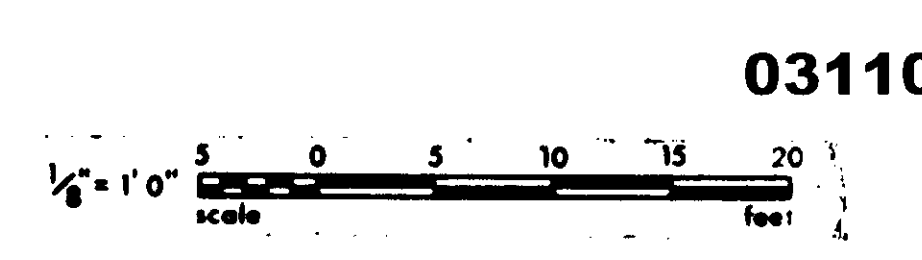
SHEET
S5-7



PLAN @ GRADE
1/8" = 1'-0"

PLAN
1/8" = 1'-0"
AT FOUNDATION SLAB

REFER TO SHEET E-32 FOR CONCRETE JOINTS...
 "MANHOLE COVERS & NECKINGS SHALL BE SIMILAR TO SECTION 1, SHEET E-32. TOP OF COVER ELEVATIONS IN PAVED AREAS SHALL BE AS DETAIL IN SECTION 1, SHEET E-32. TOP OF COVER ELEVATION IN NON-PAVED AREAS SHALL BE 4" ABOVE SURROUNDING FINISHED GRADE."
 "BOTTOM SLAB OF MANHOLE SHALL BE SLOPED 1/4" PER FT TO DRAIN INTO GALLERY. PROVIDE 3" ROUND WEEP HOLES @ 24" O.C. IN COMMON WALL BETWEEN MANHOLE & GALLERY FOR DRAINAGE."



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.
RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Algor
Yard Katsura RCE 14088
 KATSURA CONSULTING ENGINEERS March 1988

03110

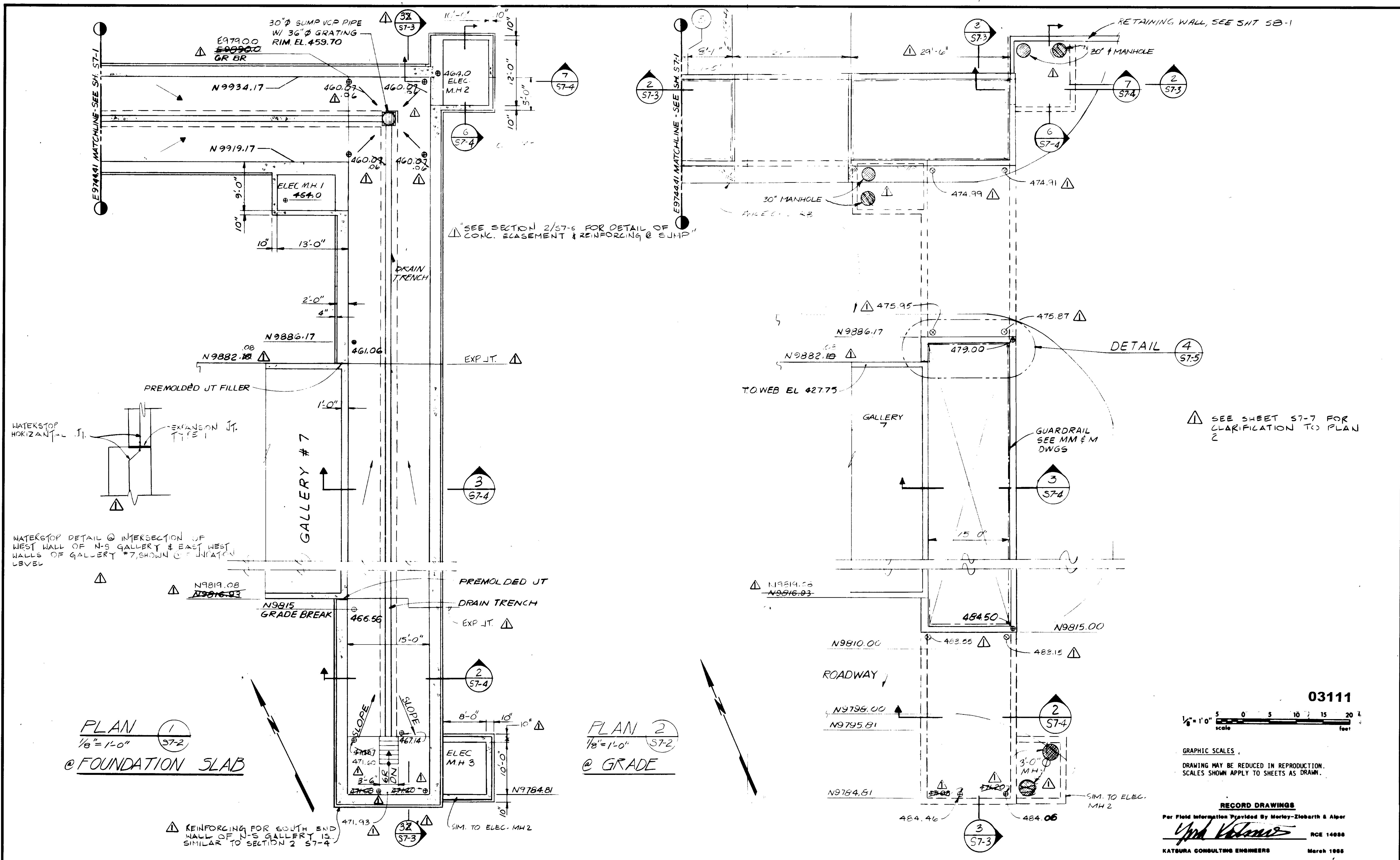
REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	DESIGNED: AS PC 102	SUBMITTED: <i>Yard Katsura</i> 14038 11-5-79
	DRAWN: ARP	PROJECT MANAGER: R.C.E. NO. DATE
	CHECKED: ARP	PROJECT ADMINISTRATOR: <i>Yard Katsura</i> 14884 11-5-79
		R.C.E. NO. DATE

JK CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 PIPE GALLERIES - PARTIAL PLANS - EAST-WEST GALLERY

SHEET
S7-1



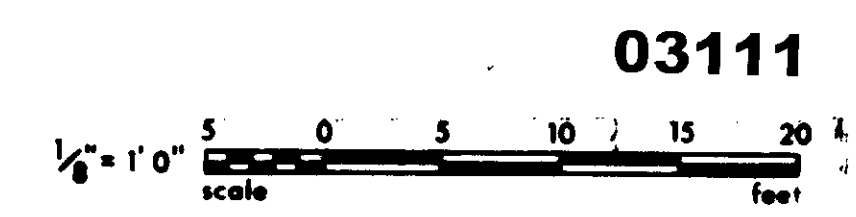
REV	DATE	BY	DESCRIPTION

SCALE :	AS SHOWN
DESIGNED :	AKP
DRAWN :	AKP
CHECKED :	AKP

SUBMITTED BY: *[Signature]* 14038 11-5-79
 PROJECT MANAGER: R.C.E. NO. DATE
 PROJECT ADMINISTRATOR: *[Signature]* 14884 11-5-79
 R.C.E. NO. DATE

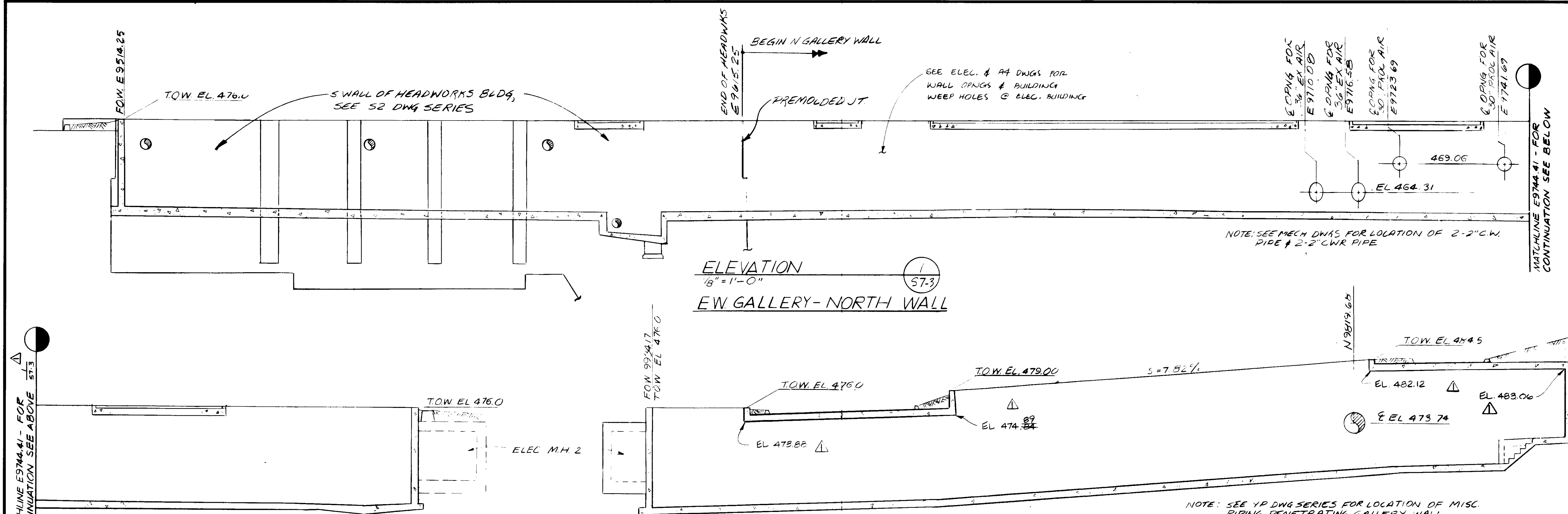
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 PIPE GALLERIES - PARTIAL PLANS
 EAST-WEST AND NORTH-SOUTH GALLERIES

SHEET
S7-2



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
[Signature] RCE 14888
KATSURA CONSULTING ENGINEERS March 1985



ELEVATION
1/8" = 1'-0"
EW GALLERY-NORTH WALL

ELEVATION
1/8" = 1'-0"
EW GALLERY-NORTH WALL

ELEVATION
1/8" = 1'-0"
N.S. GALLERY-EAST WALL

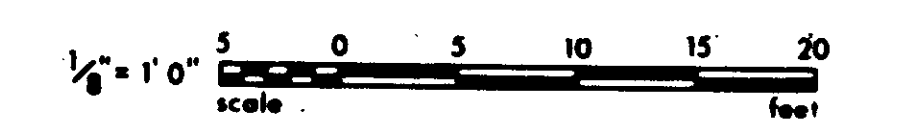
- NOTES:
1. VERIFY LOCATIONS & SIZES OF CONDUIT SUPPORTS & OPNGS AT MH 2 & MH 3
 2. VERIFY PIPE OPNGS DIMENSIONS W/ MECH. DWGS.

△ FOR COMPLETE ELEVATIONS SEE SK37-3A & 3B FOR EAST-WEST GALLERY AND SK06-5A FOR NORTH-SOUTH GALLERY

△ NOTE: REFER TO ELECTRICAL SHEET E 34, DETAIL A & E FOR EMBEDDED CONDUIT SUPPORTS. TYPICAL FOR EW & N-S GALLERIES SUPPORTS TO BE 10'-0" O.C.

03112

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alger
Yuh Volante RCE 14088
KATOURA CONSULTING ENGINEERS March 1988



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

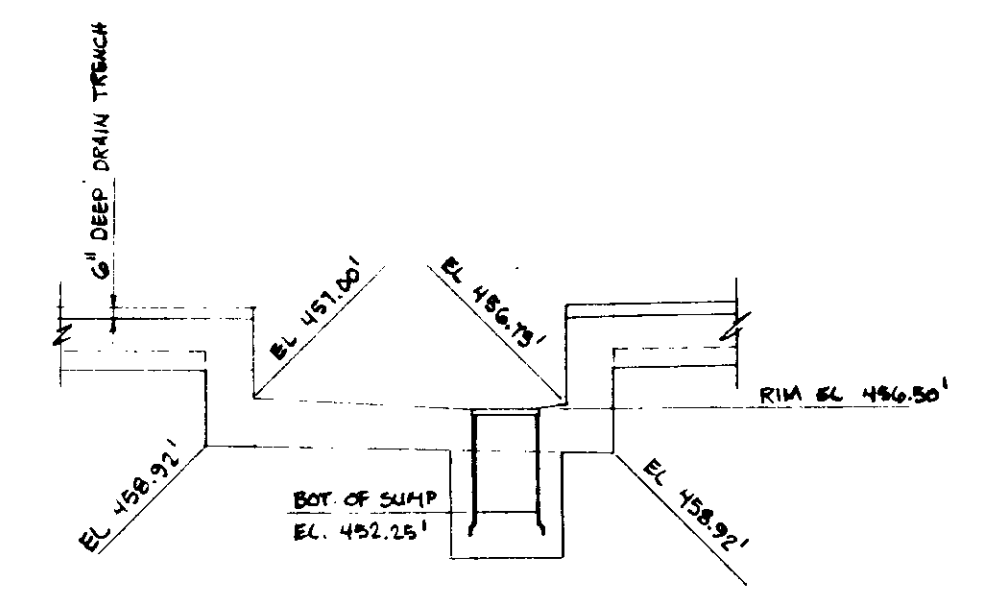
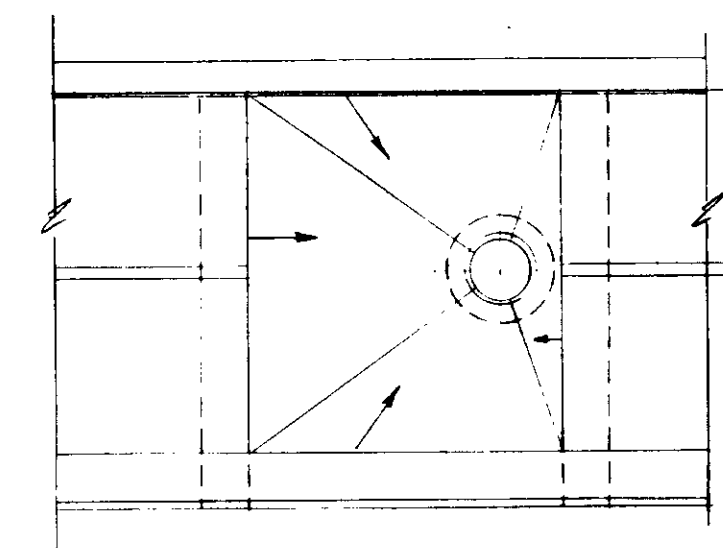
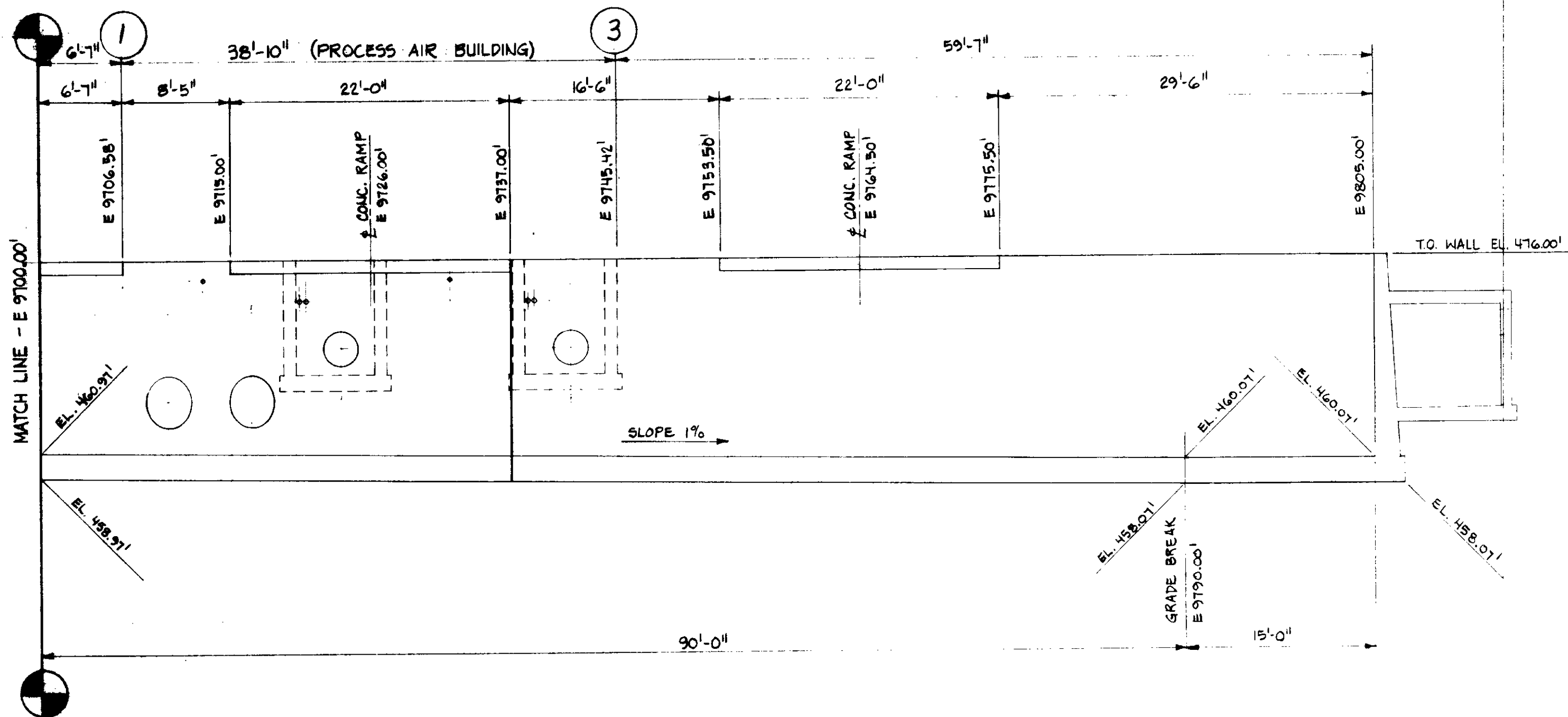
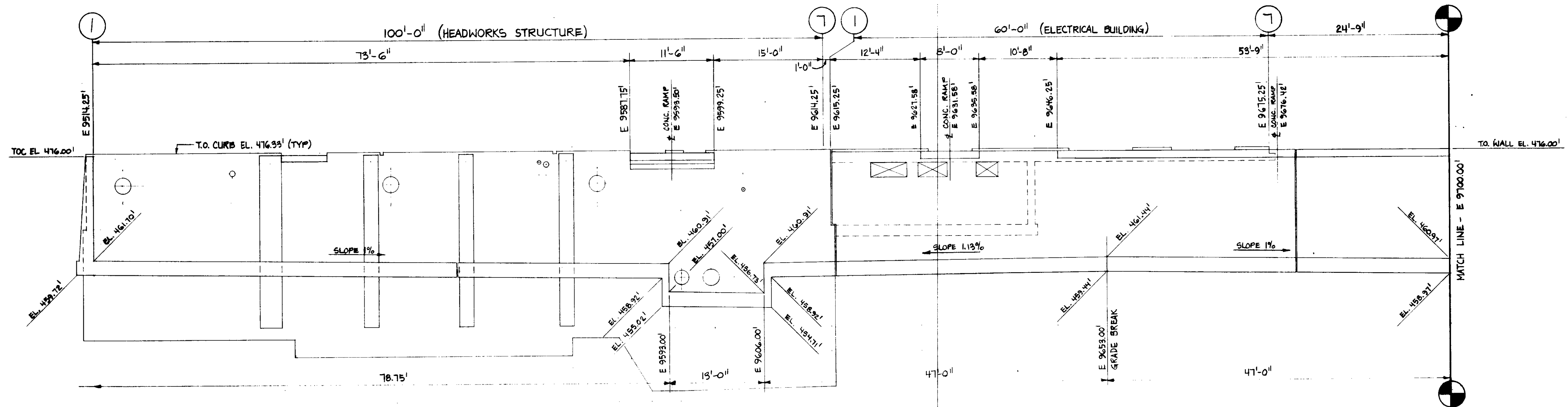
REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	AS DESIGNED	DESIGNED: DE	DRAWN: ARP	CHECKED: [Signature]
SUBMITTED: [Signature]	14038	11-5-79	PROJECT MANAGER	R.C.E. NO. DATE
[Signature]	14884	11-5-79	PROJECT ADMINISTRATOR	R.C.E. NO. DATE

JKE CONSULTING ENGINEERS
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6601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
PIPE GALLERIES - PROFILES & DETAILS

SHEET
S7-3



EAST-WEST PIPE GALLERY / NORTH WALL ELEVATION

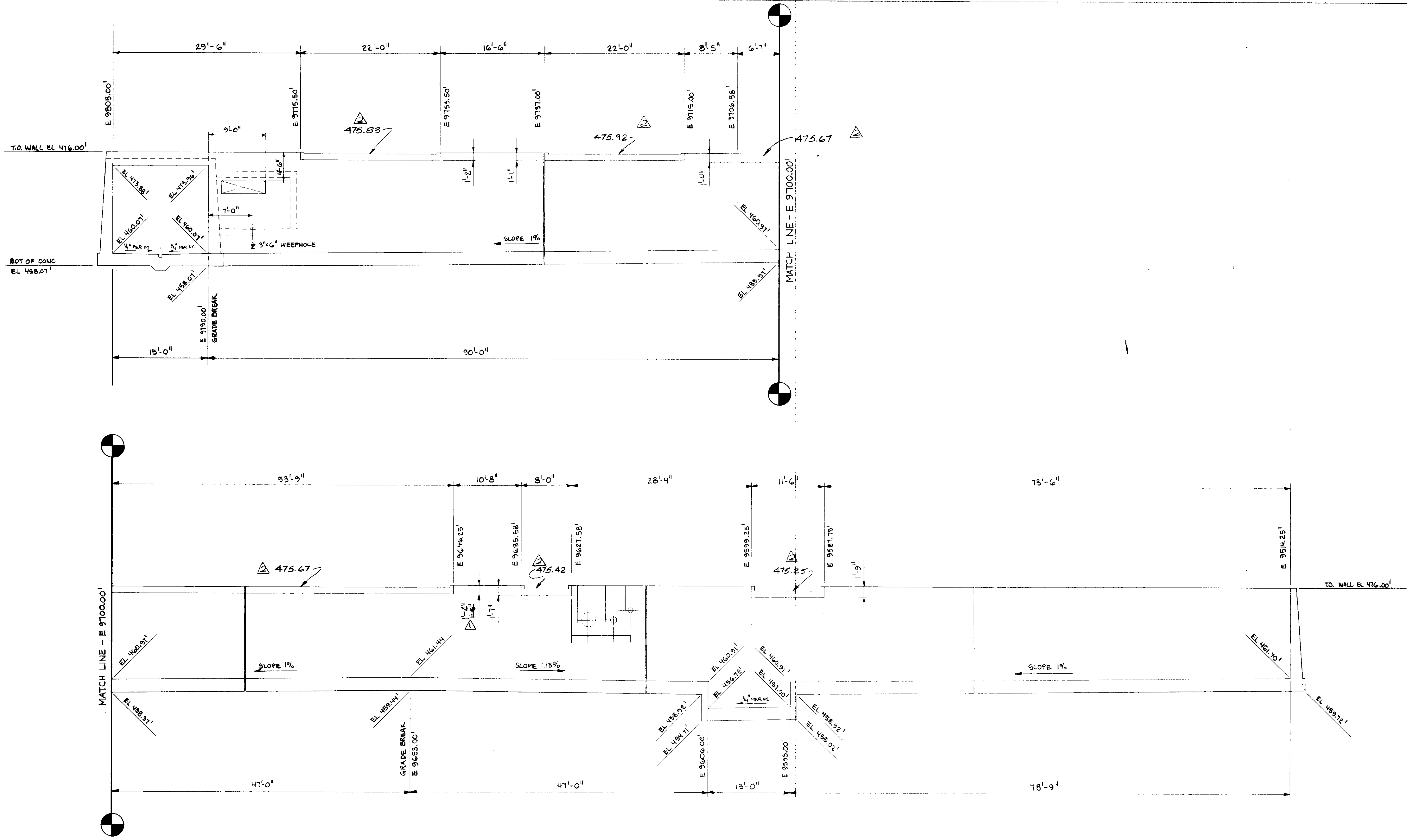
SUMP AREA DETAIL

03113

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura RCE 14088
 KATSURA CONSULTING ENGINEERS March 1988

REFERENCE DWG: SK57-3A
 PLAN CLARIFICATION: PCL-C5-22

PCL-C5-22



EAST-WEST PIPE GALLERY / SOUTH WALL ELEVATION

03114

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura
 KATSURA CONSULTING ENGINEERS RCE 14038
 March 1988

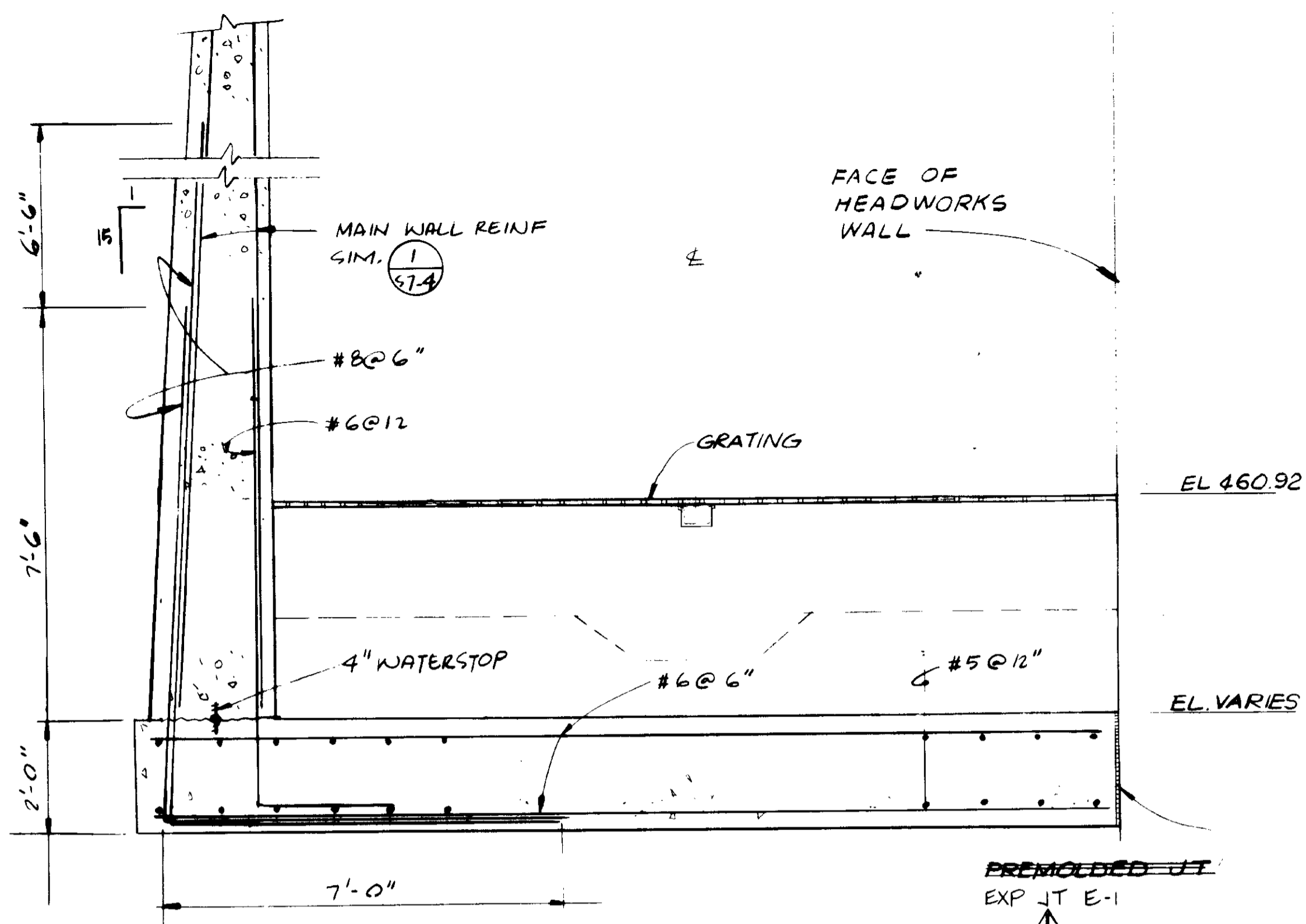
REFERENCE DWG.: SK51-3B
 PLAN CLARIFICATION: PCL-C5-22 **PCL-C5-22**

REV	DATE	BY	DESCRIPTION
1	11/12/80	RL	CLARIFICATION
2		MDA	REV. PER MDA

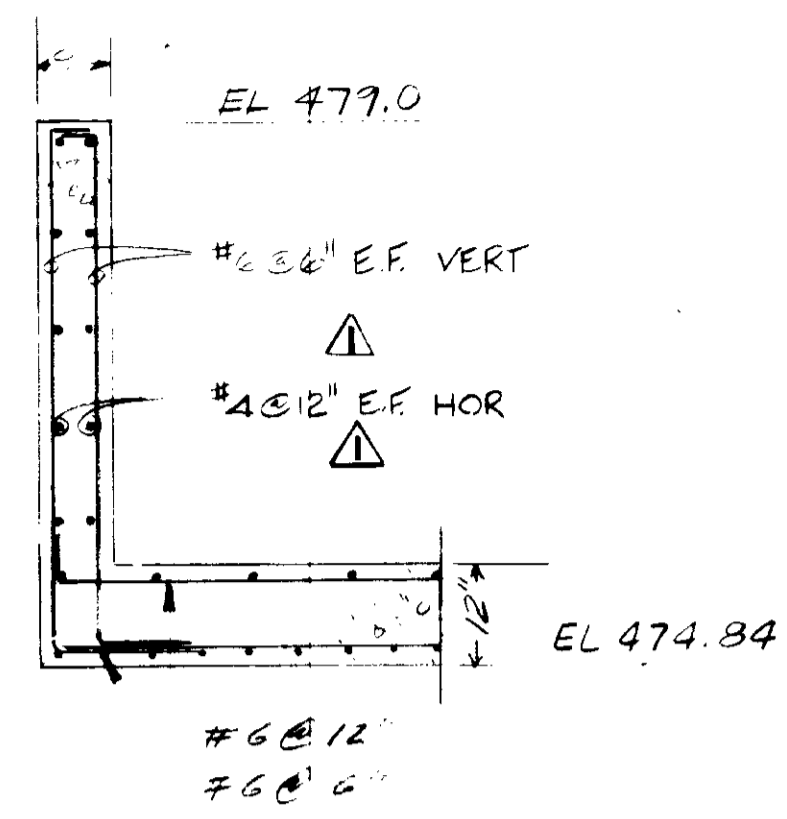
KATSURA
 CONSULTING ENGINEERS
 DATE: 11/12/80
 BY: R. LEE

EAST-WEST PIPE GALLERY / SOUTH WALL ELEVATION

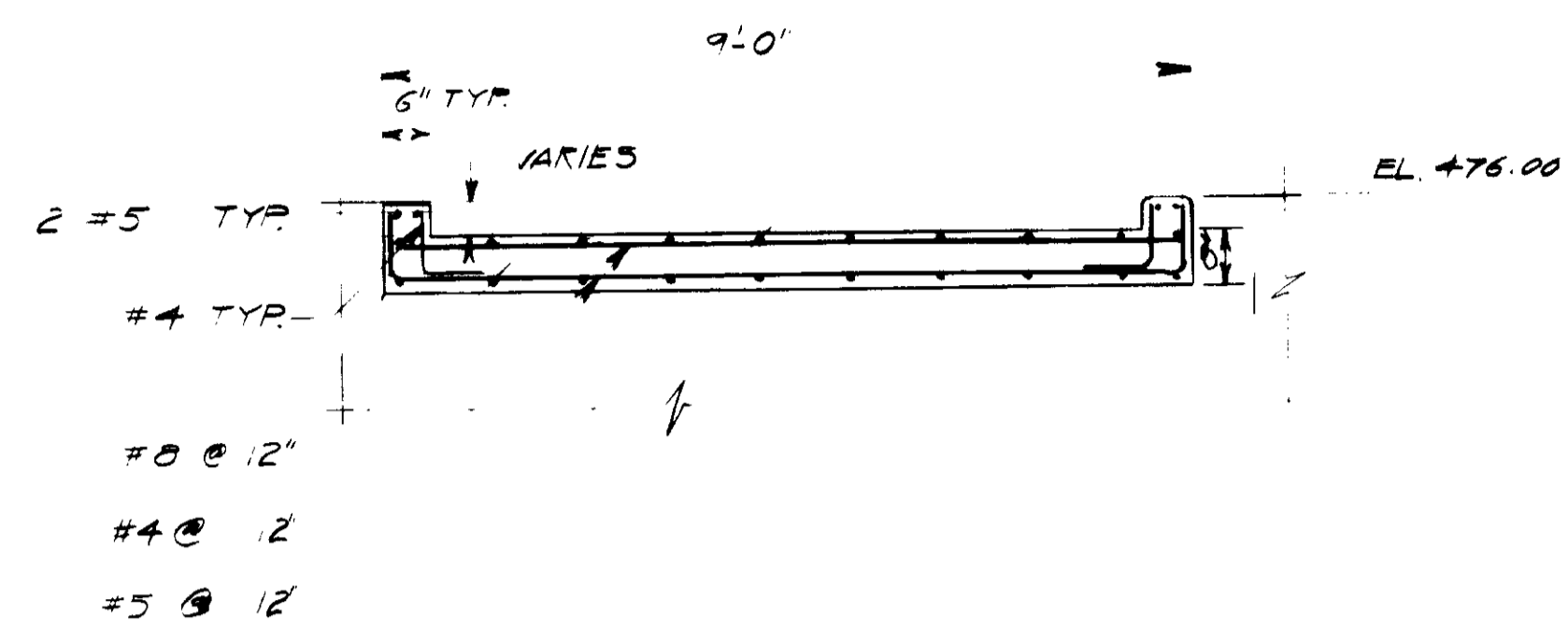
SHEET
S7-3B



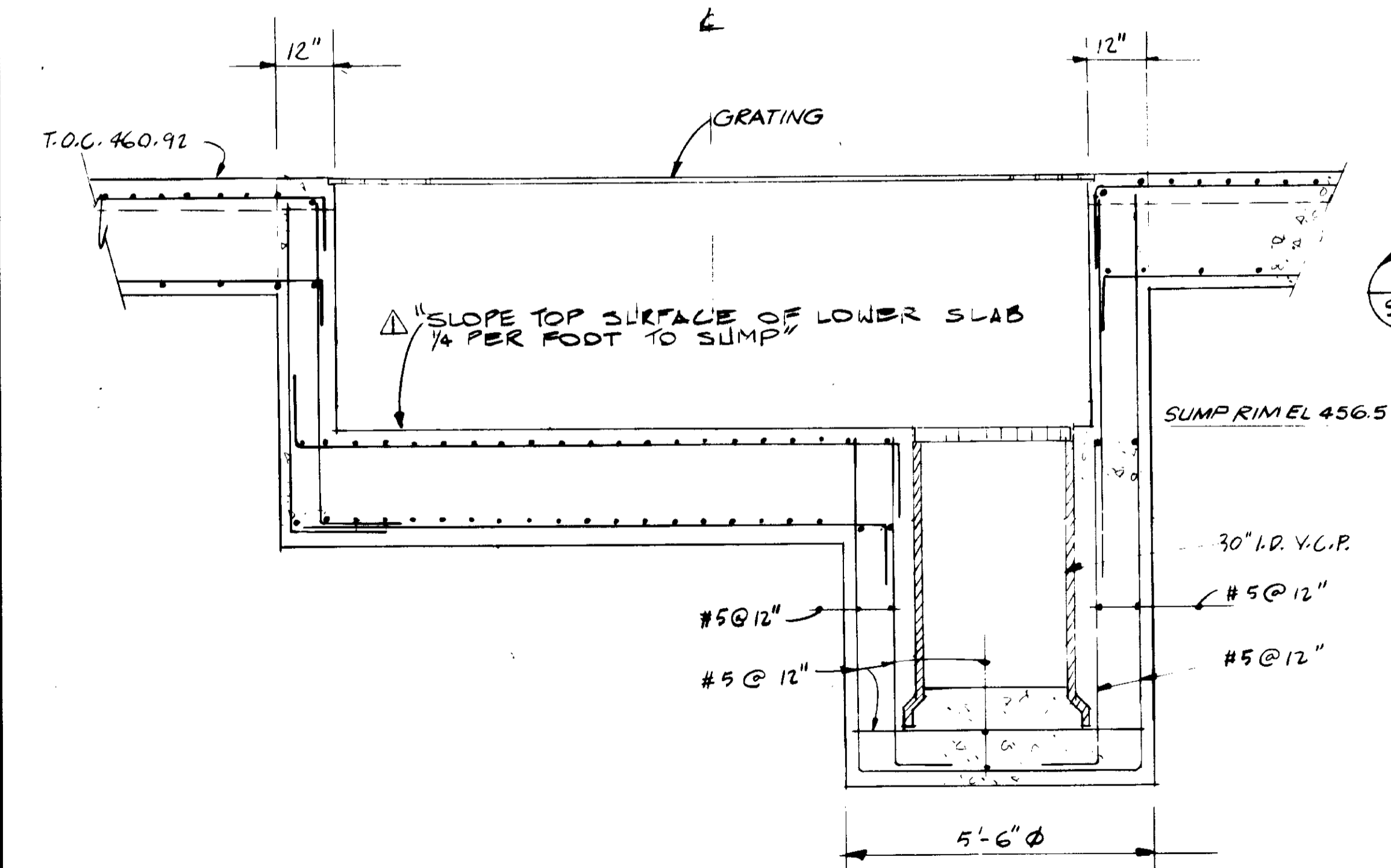
SECTION 1
1/2" = 1'-0"



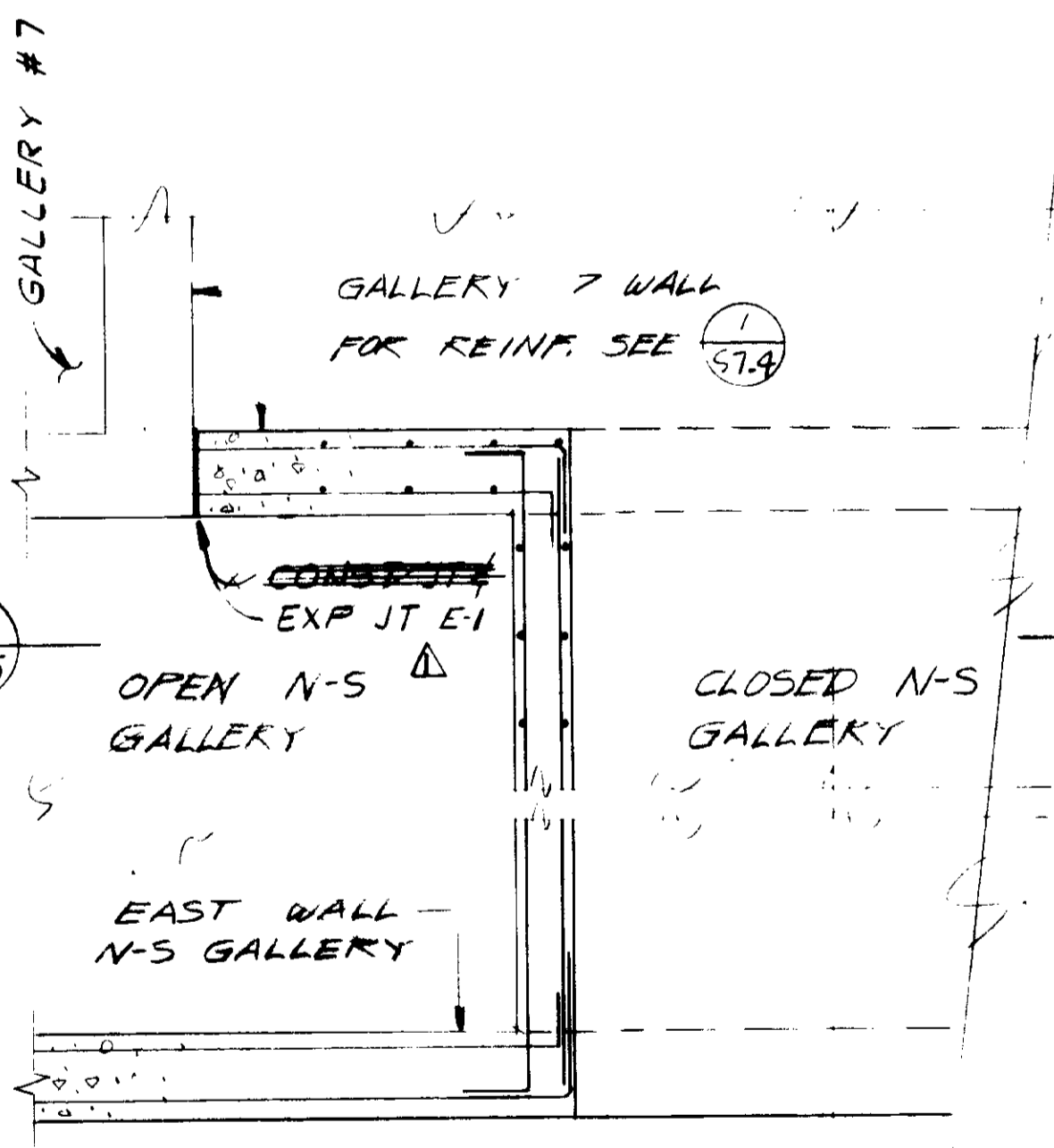
SECTION 3
1/2" = 1'-0"



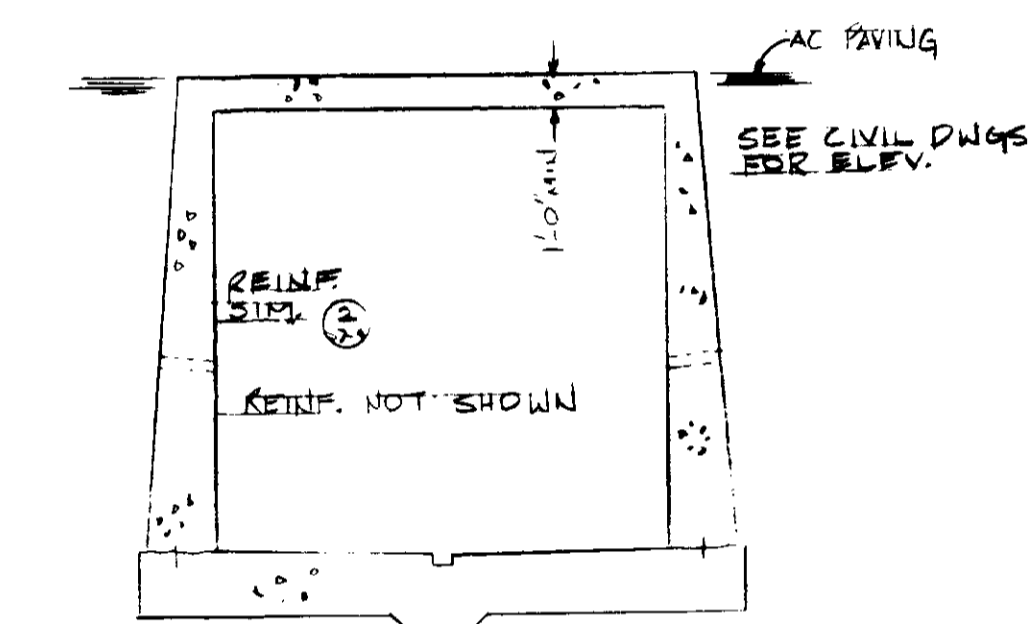
SECTION 5
1/2" = 1'-0" PEDESTRIAN BRIDGE



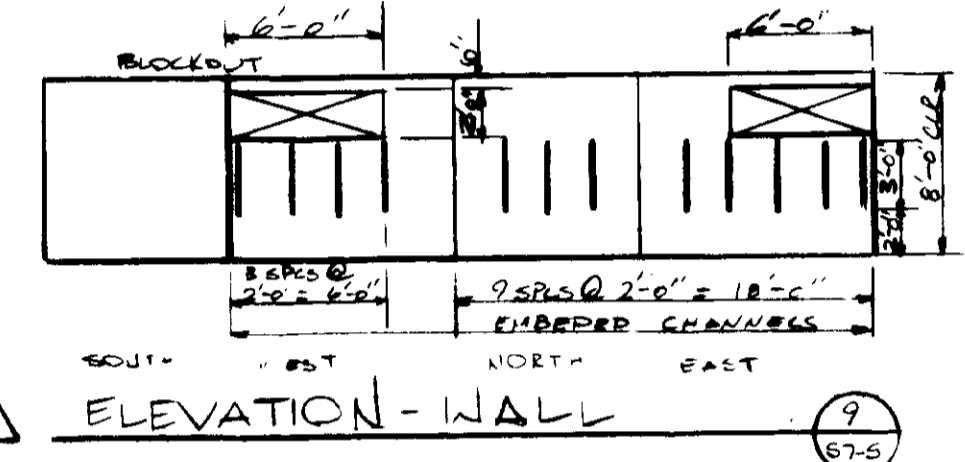
SECTION 2
1/2" = 1'-0"



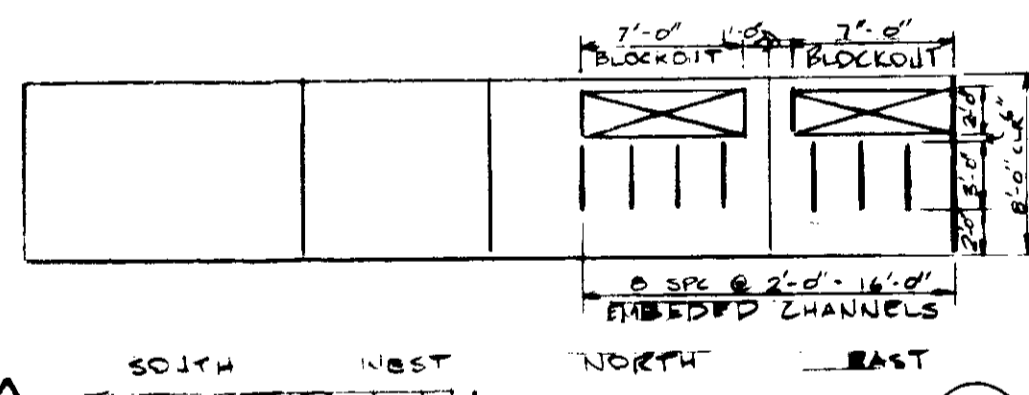
DETAIL 4
1/2" = 1'-0"
ABOVE 470



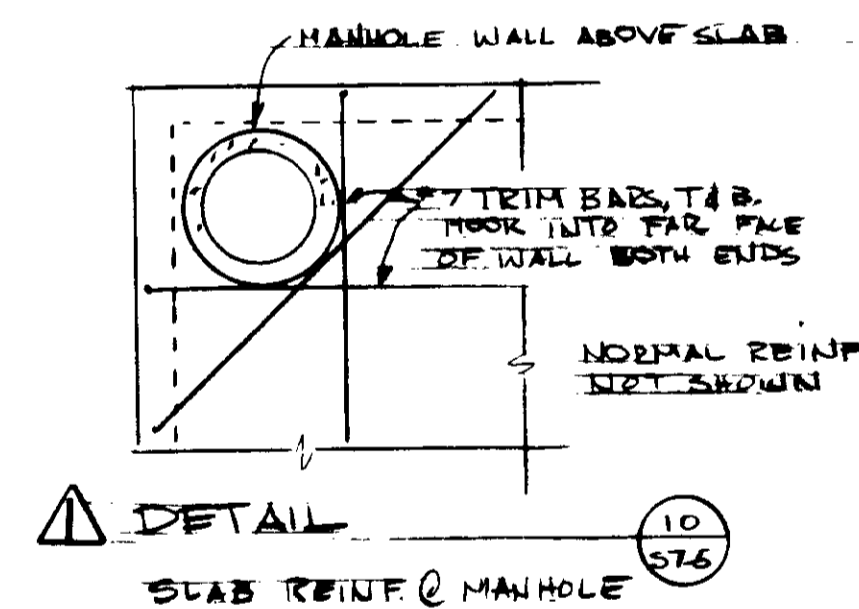
SECTION 6
1/2" = 1'-0"



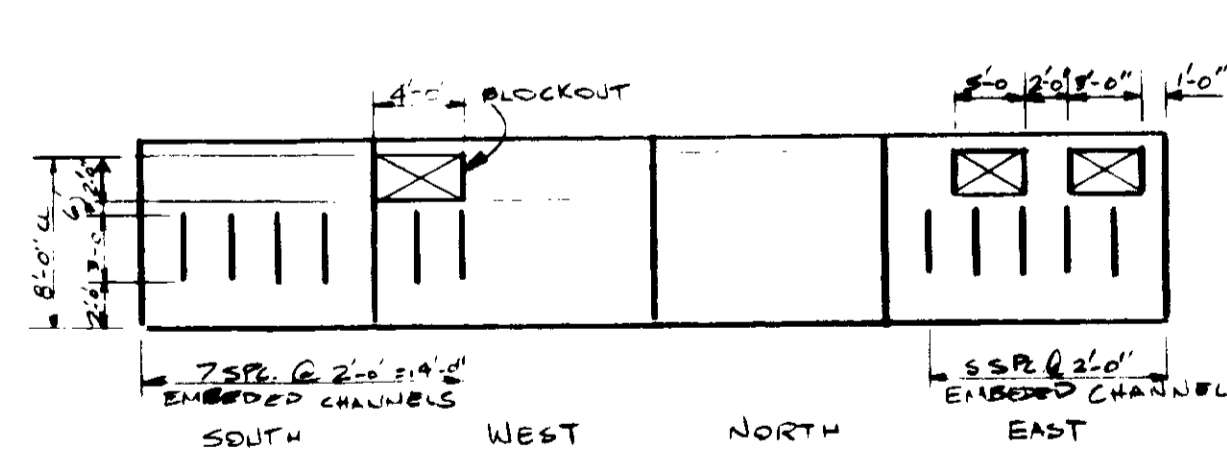
ELEVATION-WALL 9
1/2" = 1'-0"



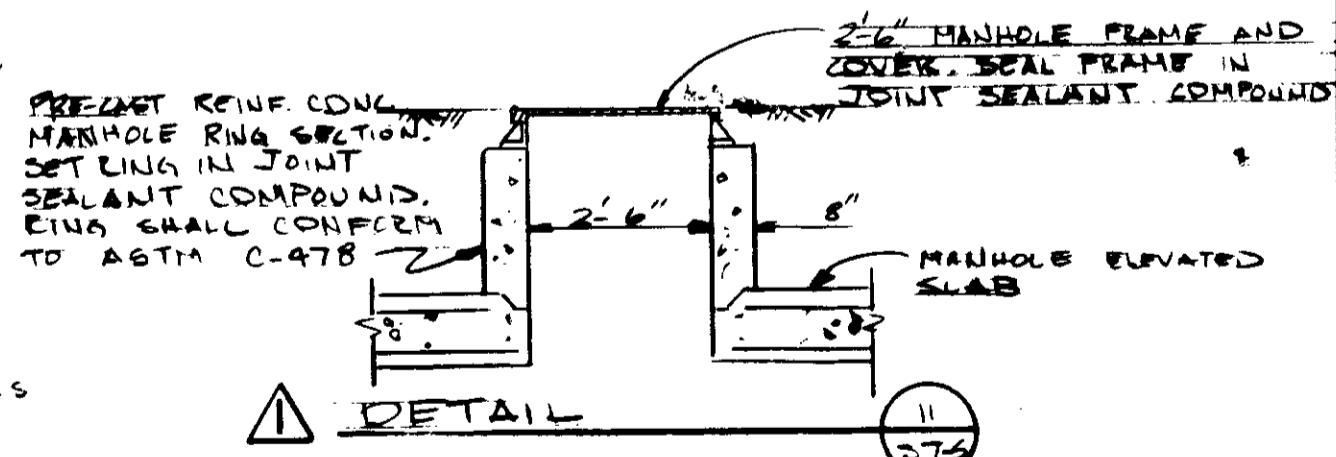
ELEVATION-WALL 7
1/2" = 1'-0"



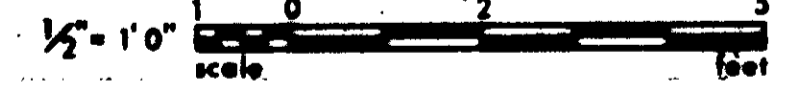
DETAIL 10
1/2" = 1'-0"



ELEVATION-WALL 8
1/2" = 1'-0"



DETAIL 11
1/2" = 1'-0"



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Yuh K. Kim
KATSURA CONSULTING ENGINEERS
March 1988

03116

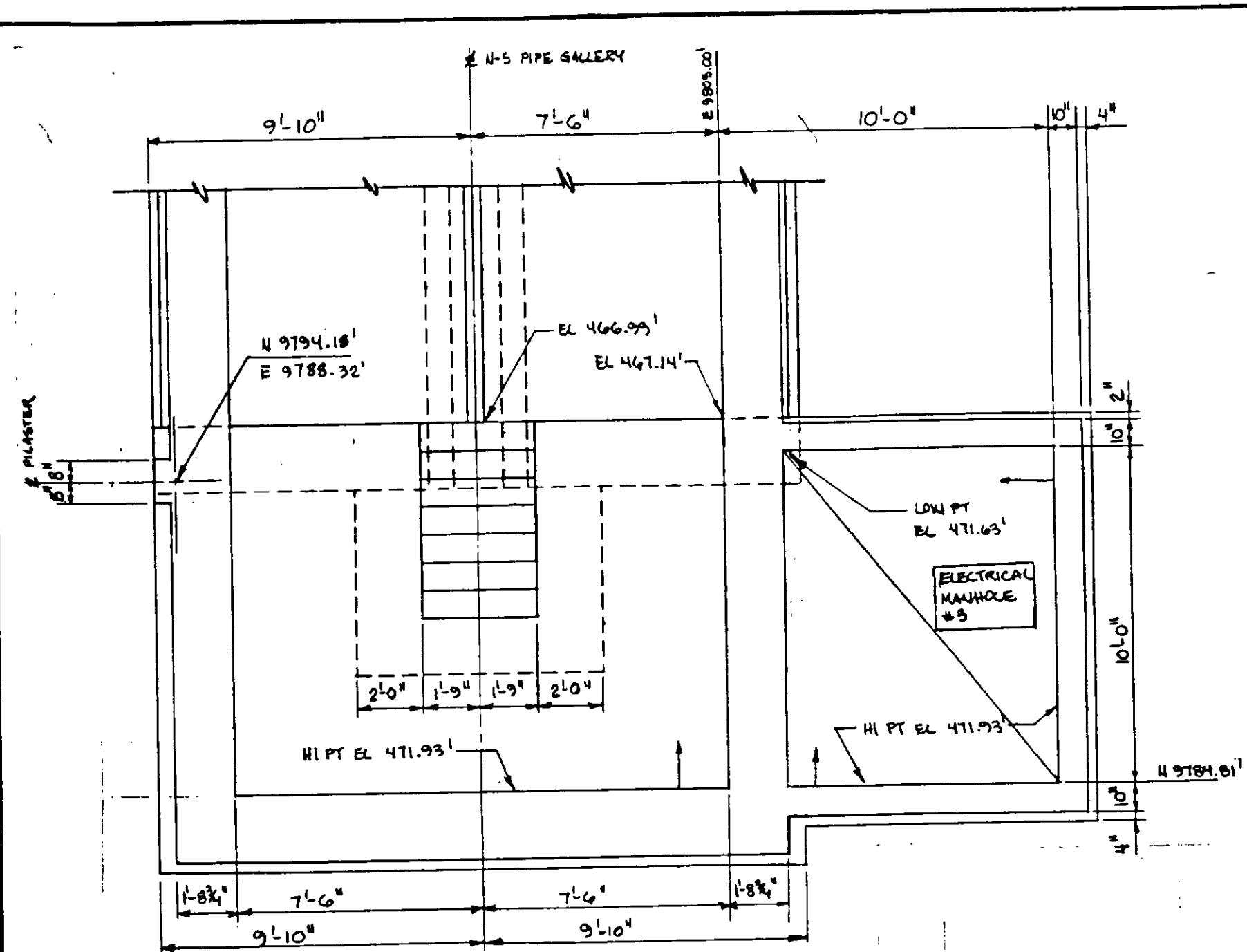
REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	DESIGNED: AKS	SUBMITTED: <i>Yuh K. Kim</i> 14038 11-5-79
DRAWN: ALP	CHECKED: <i>Yuh K. Kim</i>	PROJECT MANAGER: <i>Yuh K. Kim</i> 14038 11-5-79
		PROJECT ADMINISTRATOR: <i>Yuh K. Kim</i> 14884 11-5-79

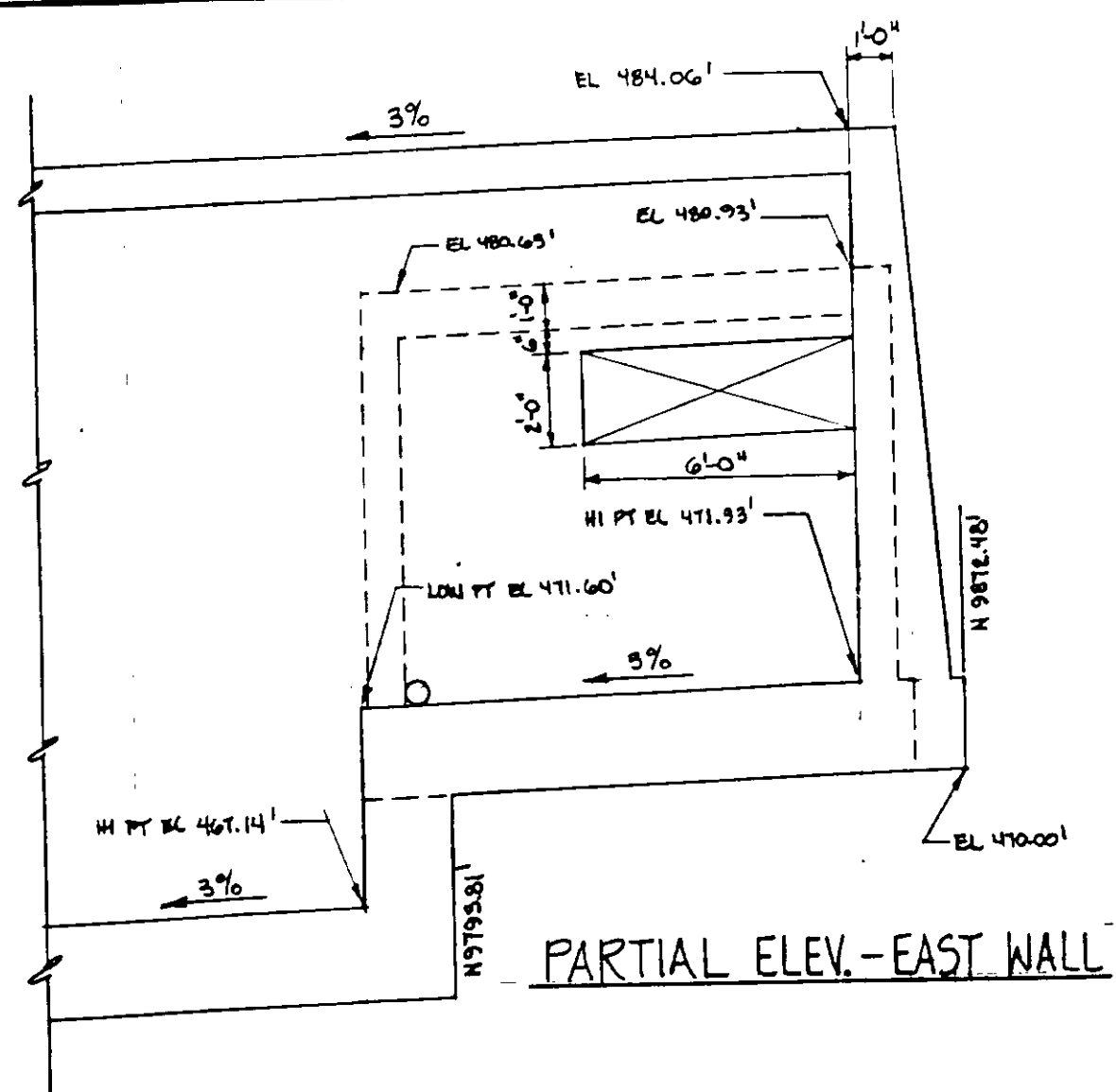
JKC CONSULTING ENGINEERS
A JOINT VENTURE
6801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
PIPE GALLERIES - SECTIONS & DETAILS

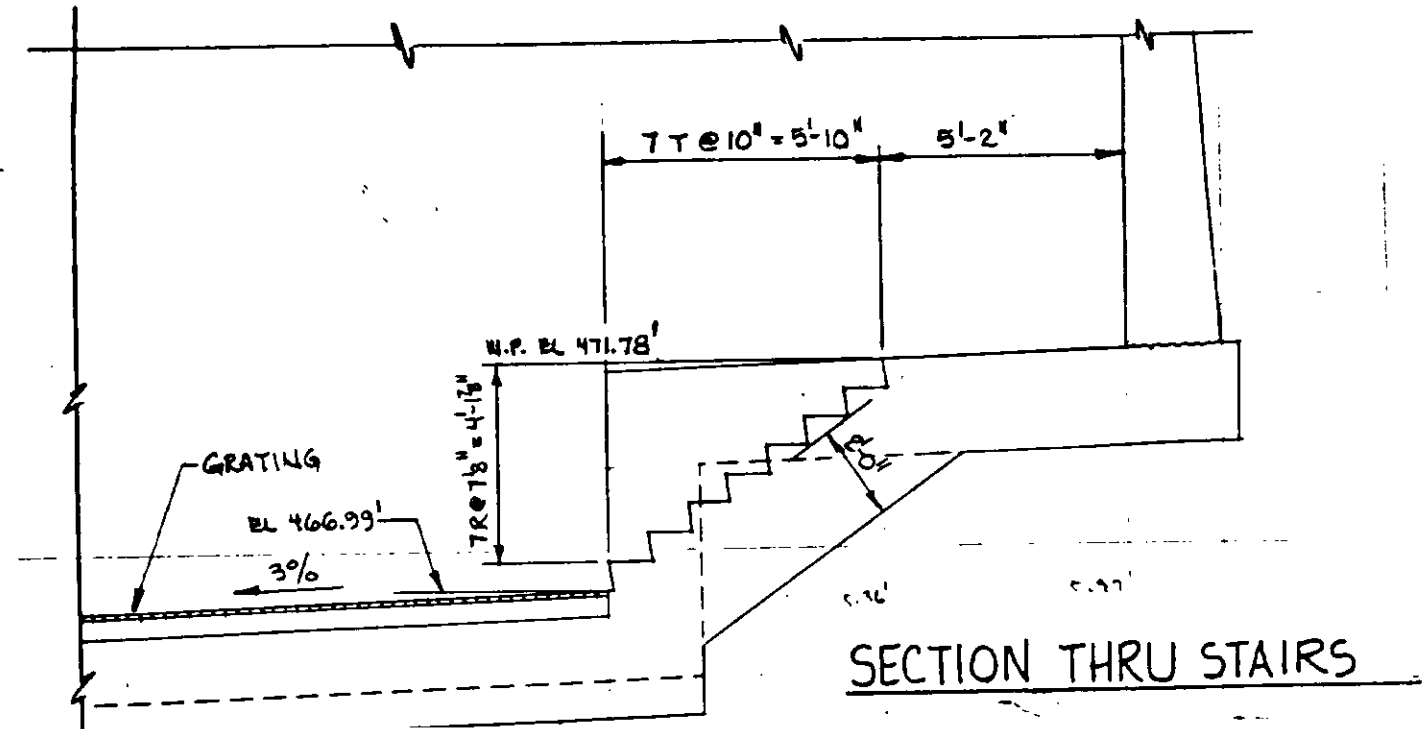
SHEET
S7-5



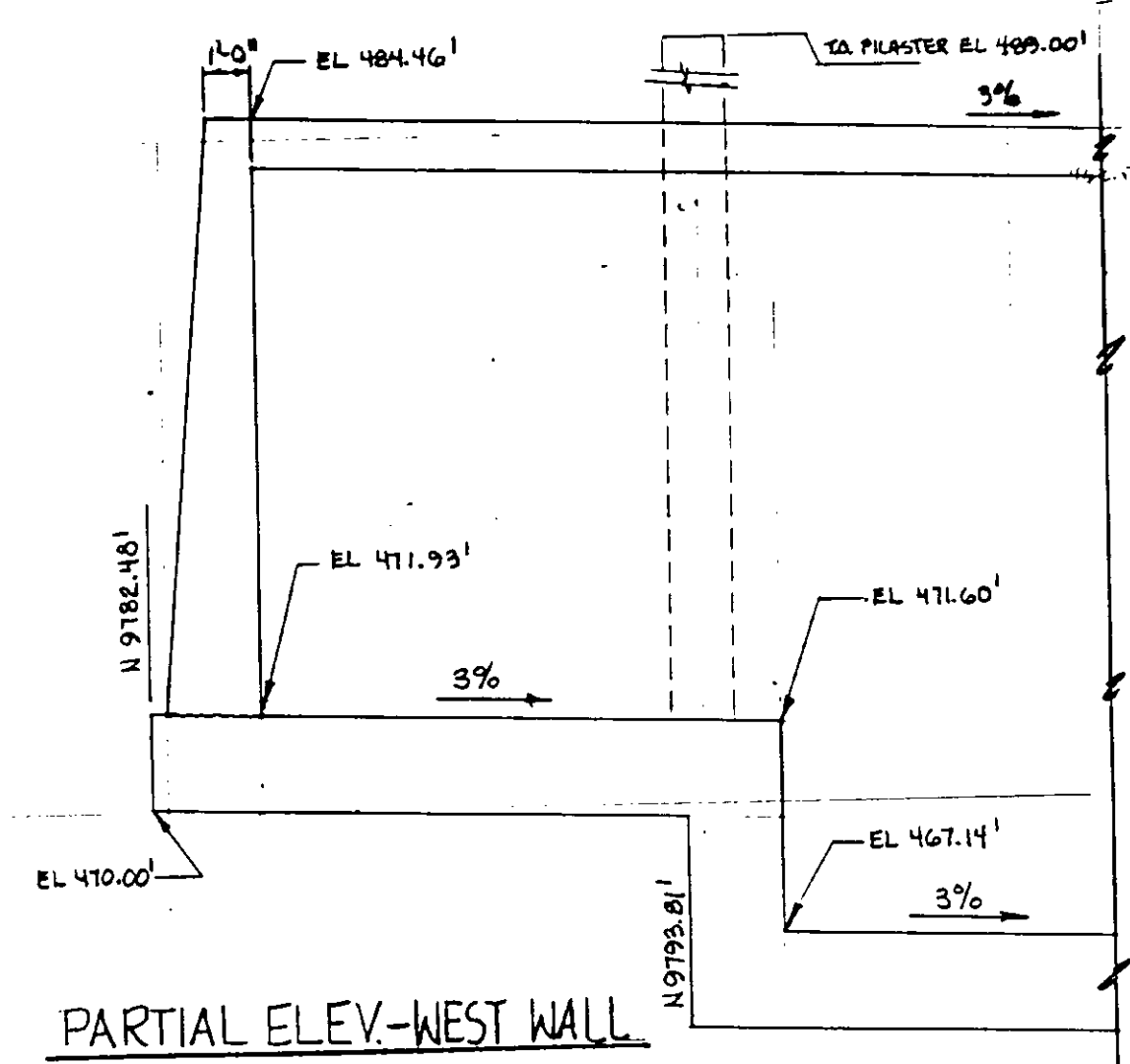
PARTIAL PLAN - SOUTH END N.S. PIPE GALLERY



PARTIAL ELEV.-EAST WALL

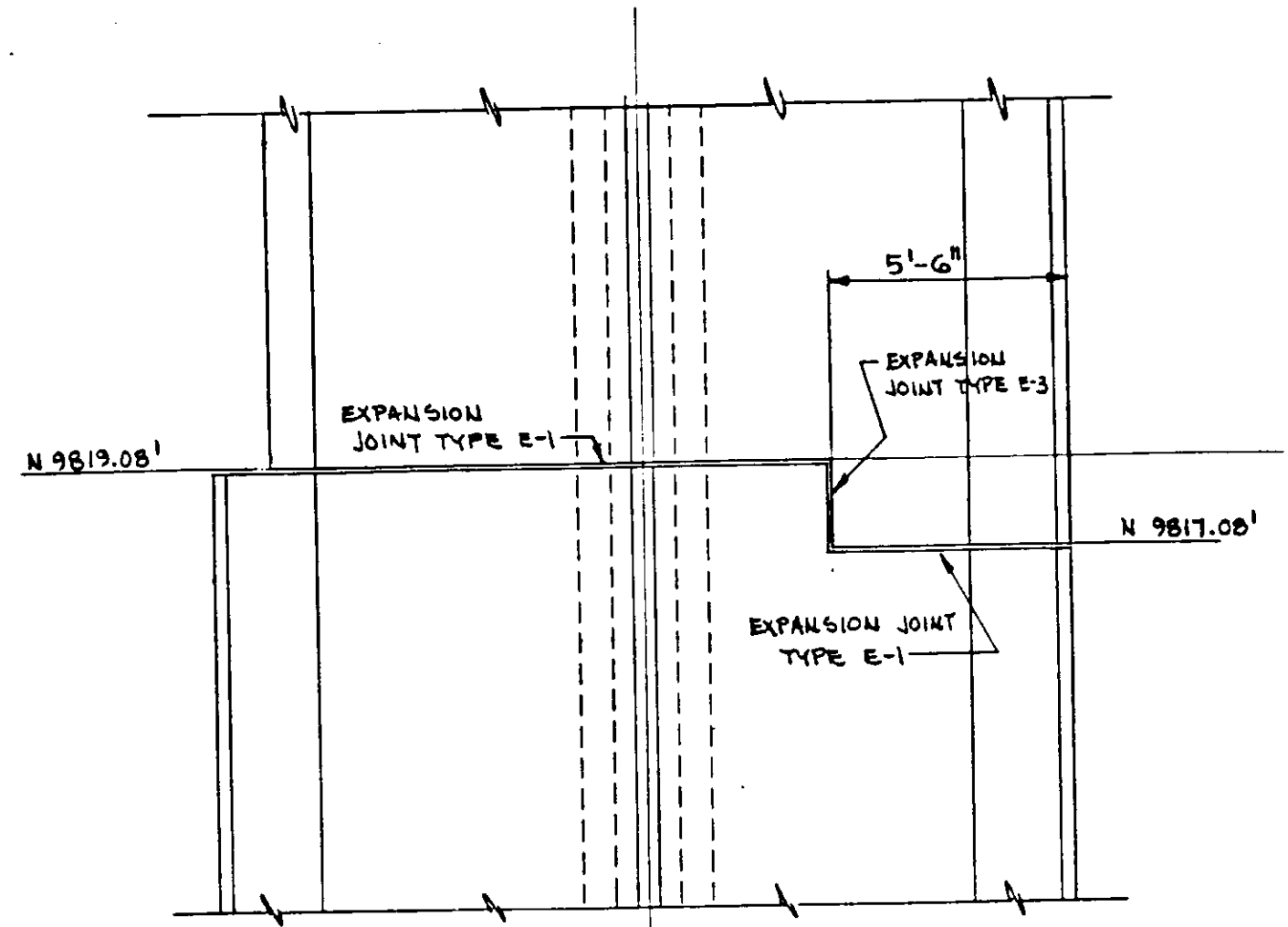


SECTION THRU STAIRS



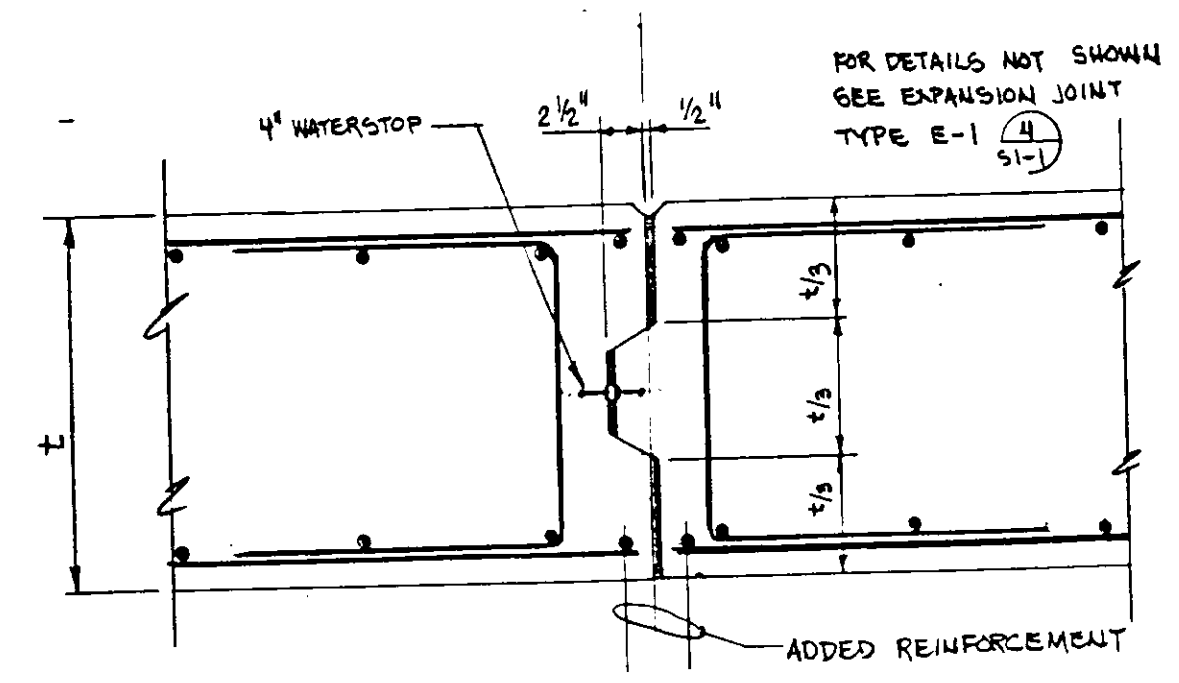
PARTIAL ELEV.-WEST WALL

REFERENCE DRAWING: SKS7-5A
PLAN CLARIFICATION: PCL-C5-8



PARTIAL PLAN AT EXPANSION JOINT

REFERENCE DRAWING: SKS7-5B
PLAN CLARIFICATION: PCL-C5-8



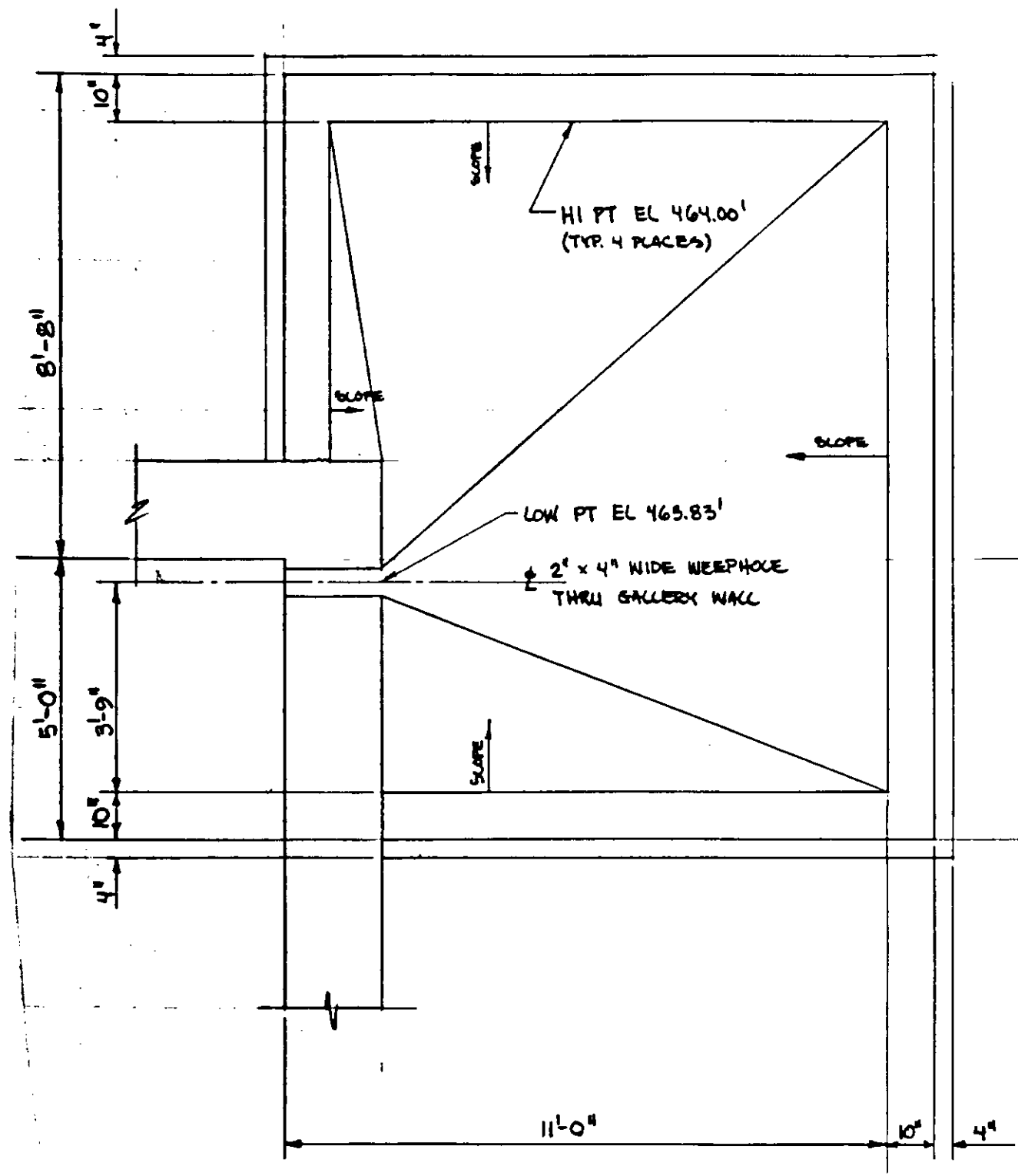
DETAIL-EXPANSION JOINT TYPE E-3

03117

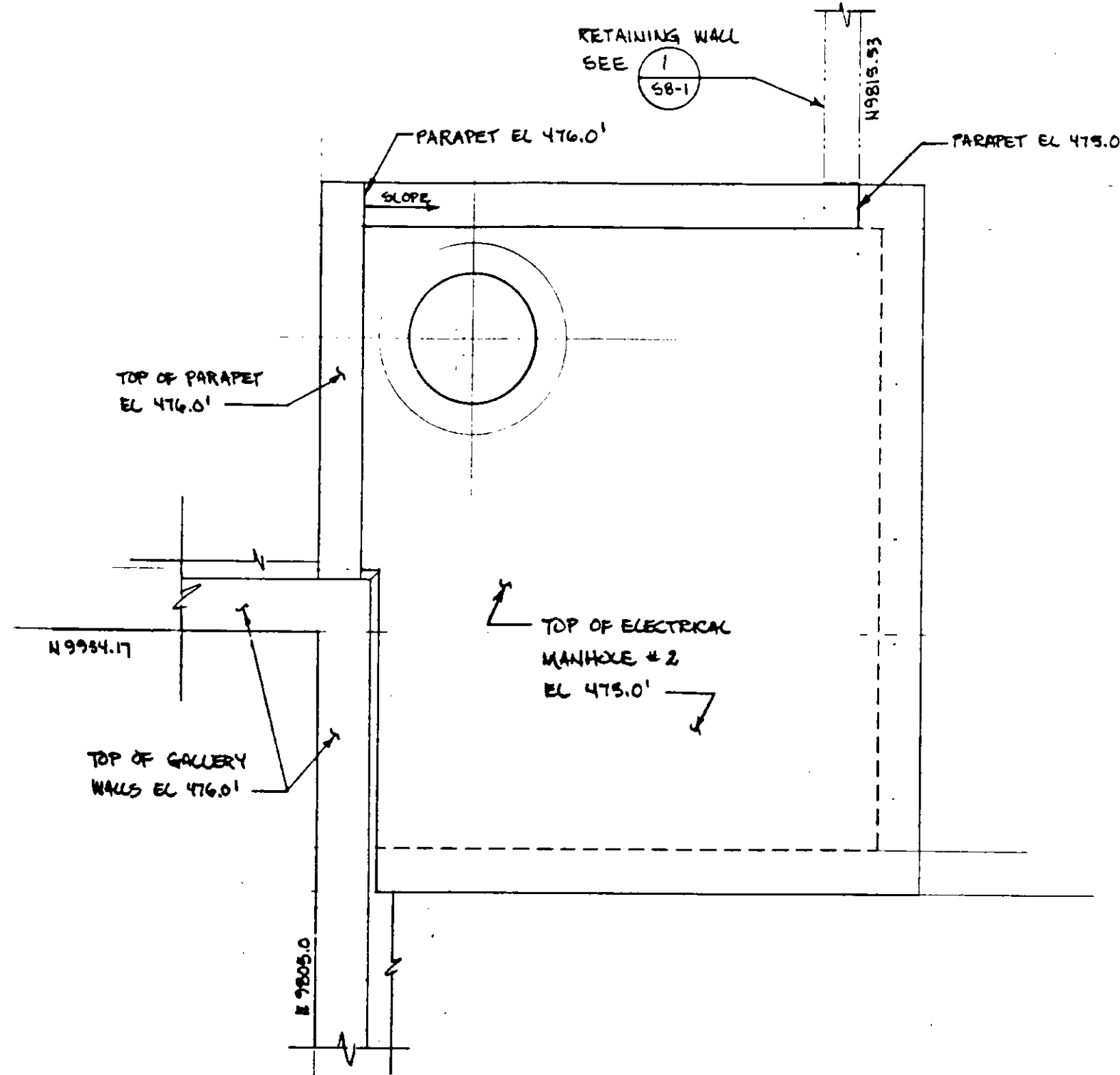
RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Ynd Volante
KATSURA CONSULTING ENGINEERS RCE 14038
March 1985

PIPE GALLERIES - PLANS, DETAILS & SECTIONS

SHEET
S7-6

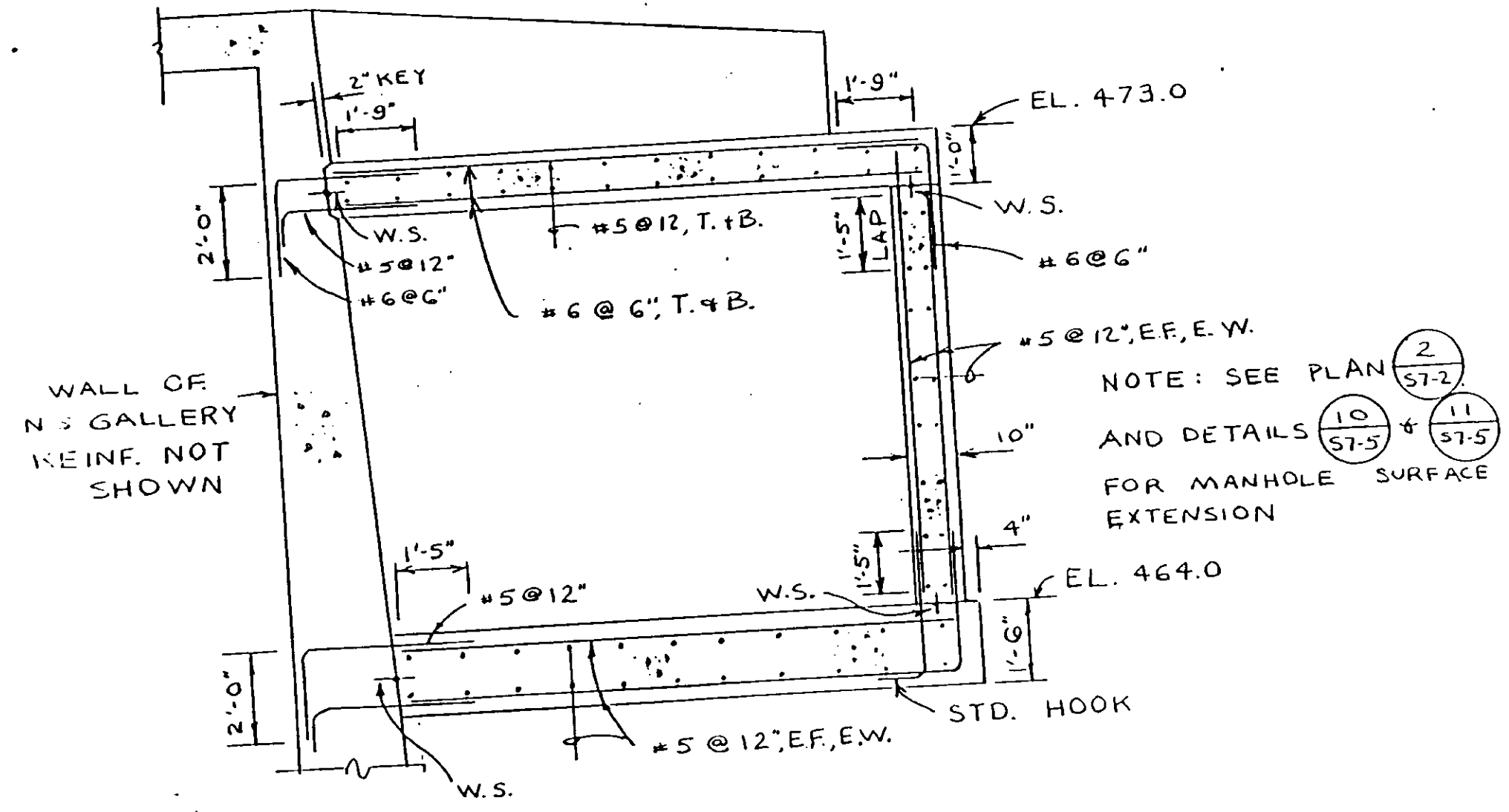


PLAN SECTION AT ELEV. 464.00'

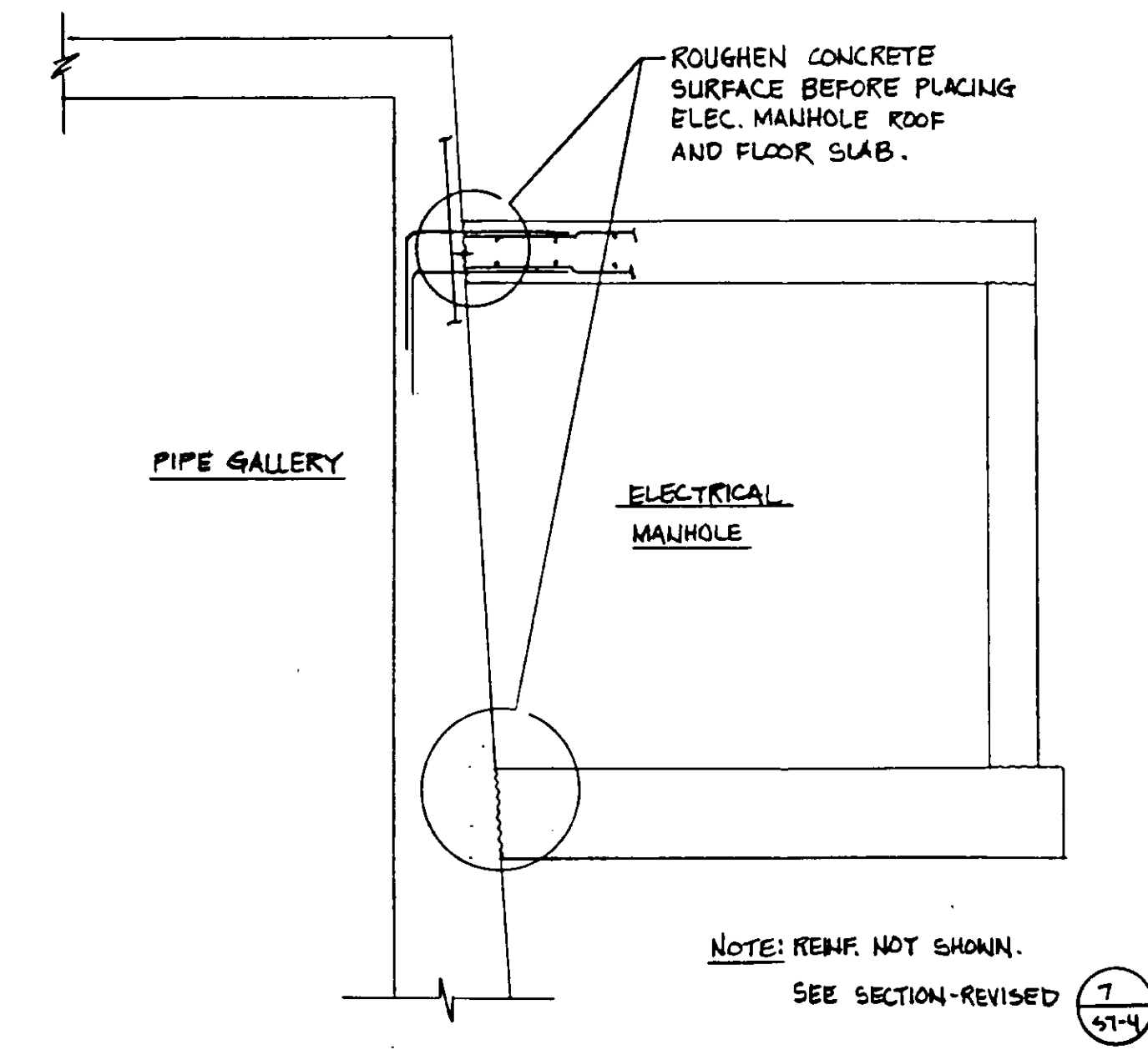


TOP PLAN

REFERENCE DRAWING: SK57-2A
 PLAN CLARIFICATION: PCL-25-22

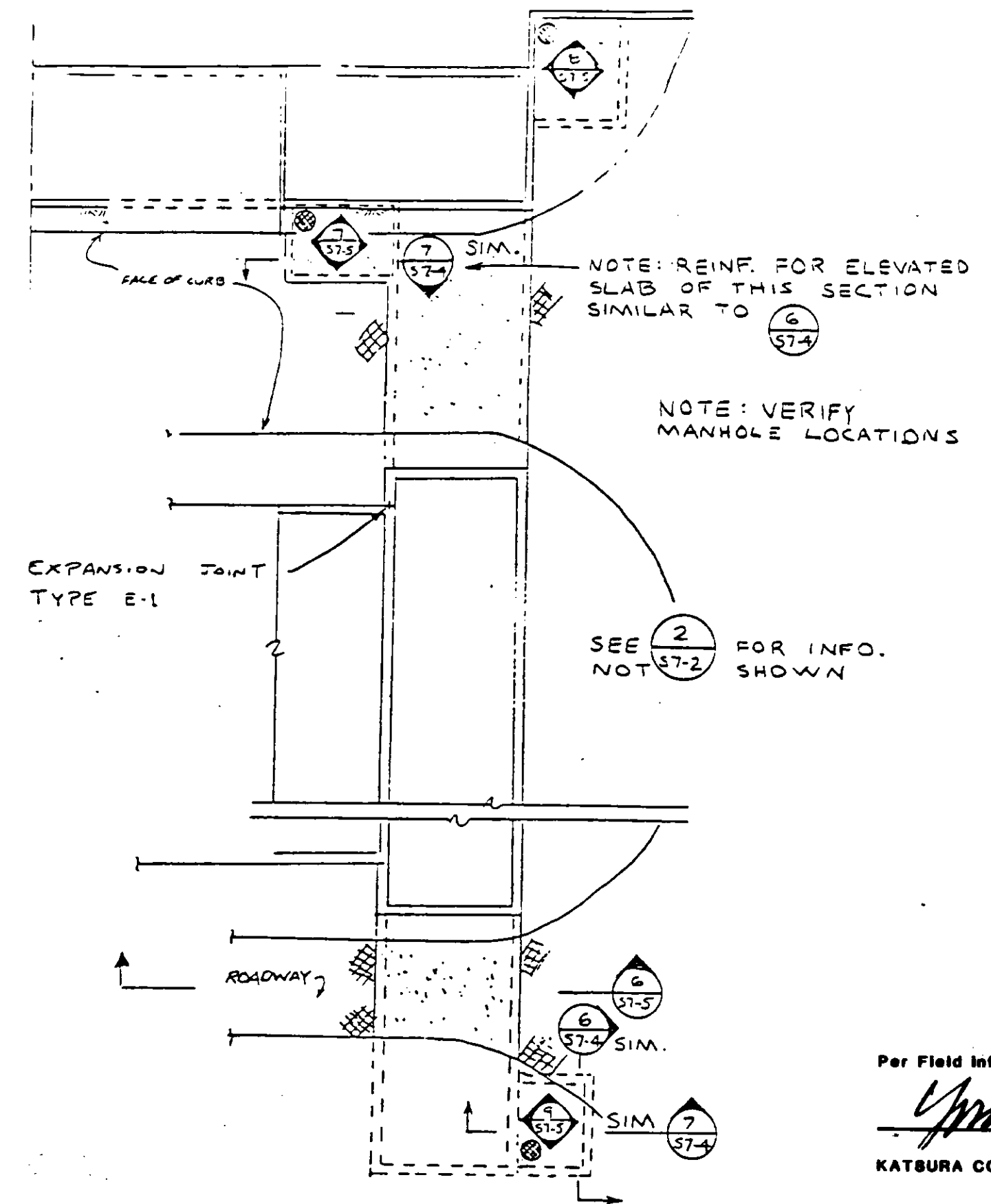


SECTION - REVISED (7) 57-4
 3/8" = 1'-0"



SECTION 7A
 SK57-4A

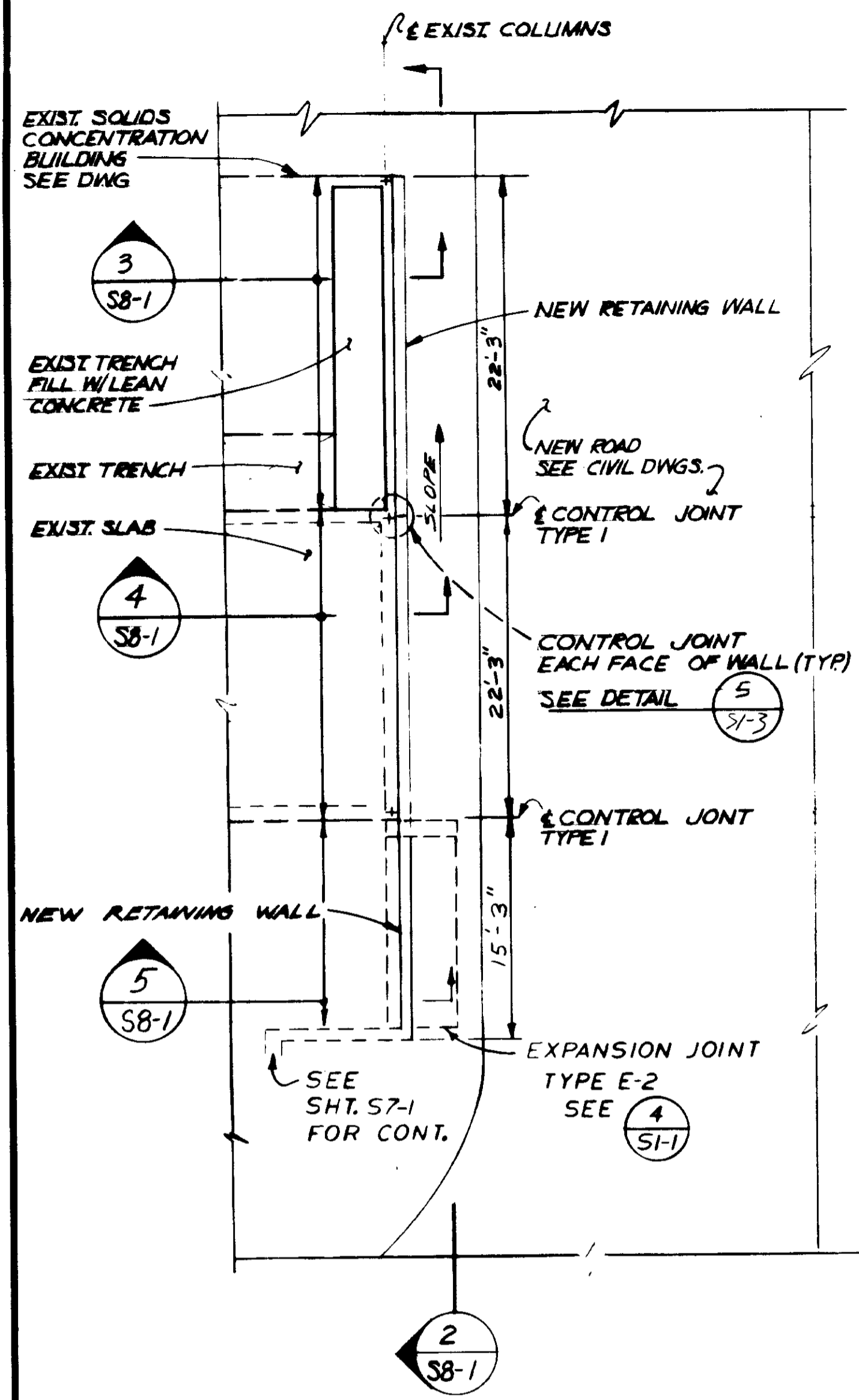
REFERENCE DRAWING: SK57-4A
 DELETED WORK: DW-25-5



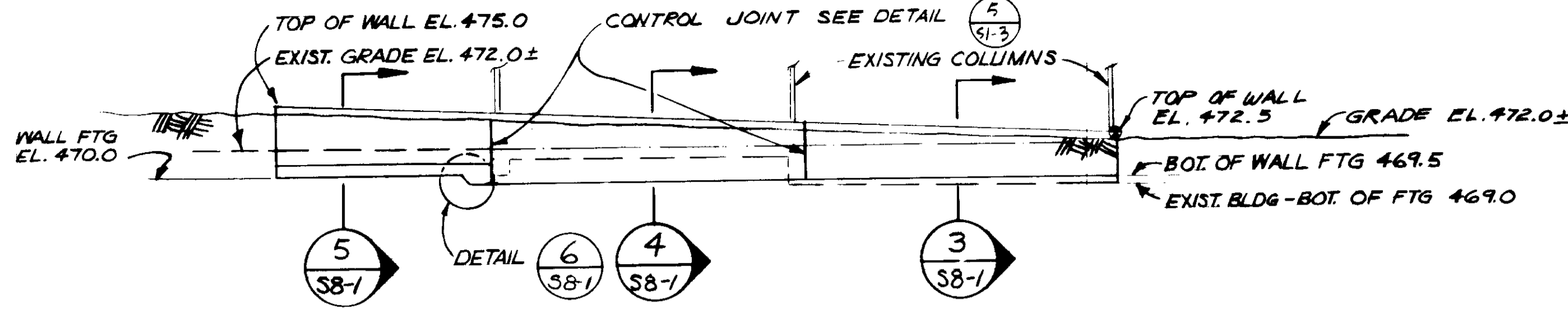
CLARIFICATION TO PLAN 2, SHEET S7-2

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura
 KATSURA CONSULTING ENGINEERS
 RCE 14038
 March 1985

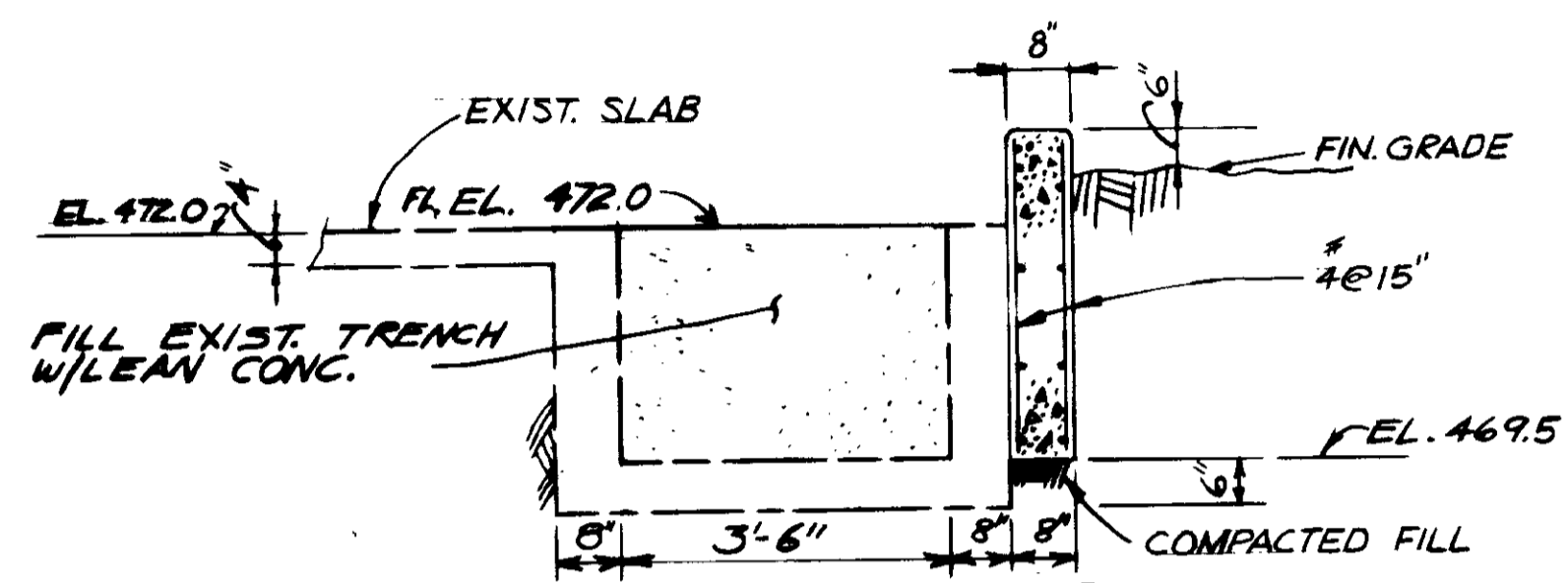
03118



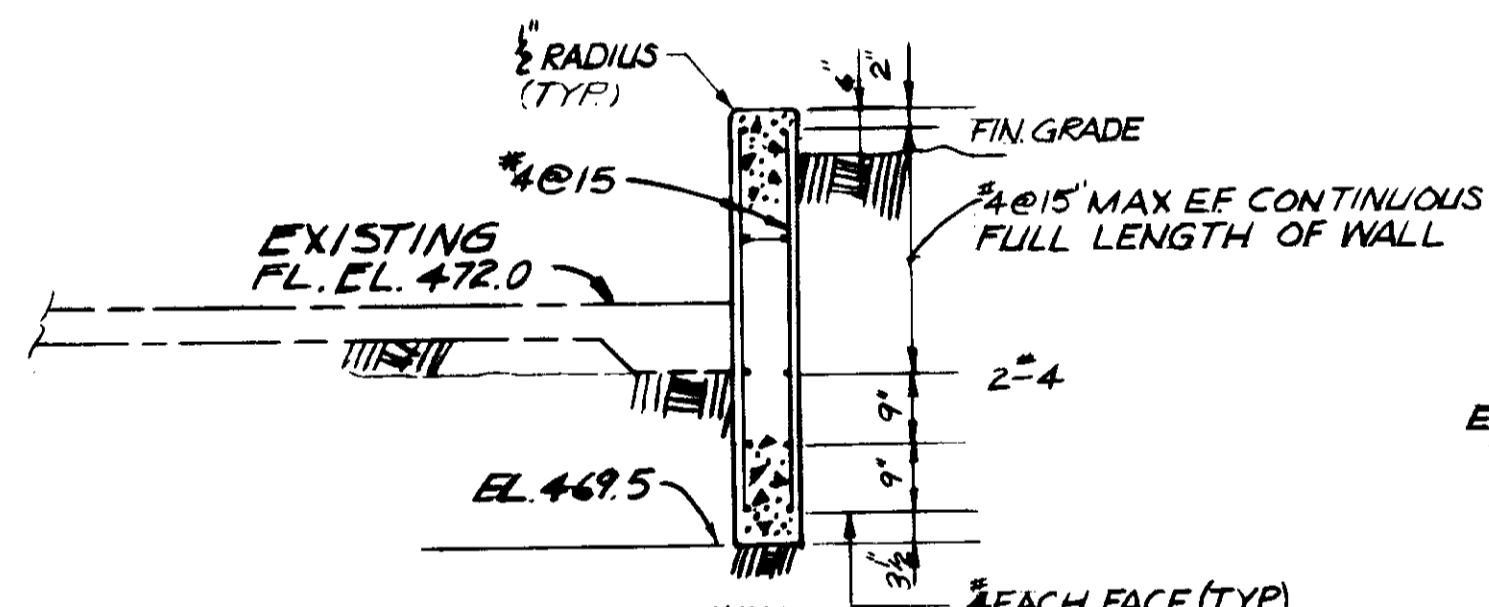
PLAN
1/8" = 1'-0"
RETAINING WALL AT EXISTING SOLIDS HANDLING BUILDING



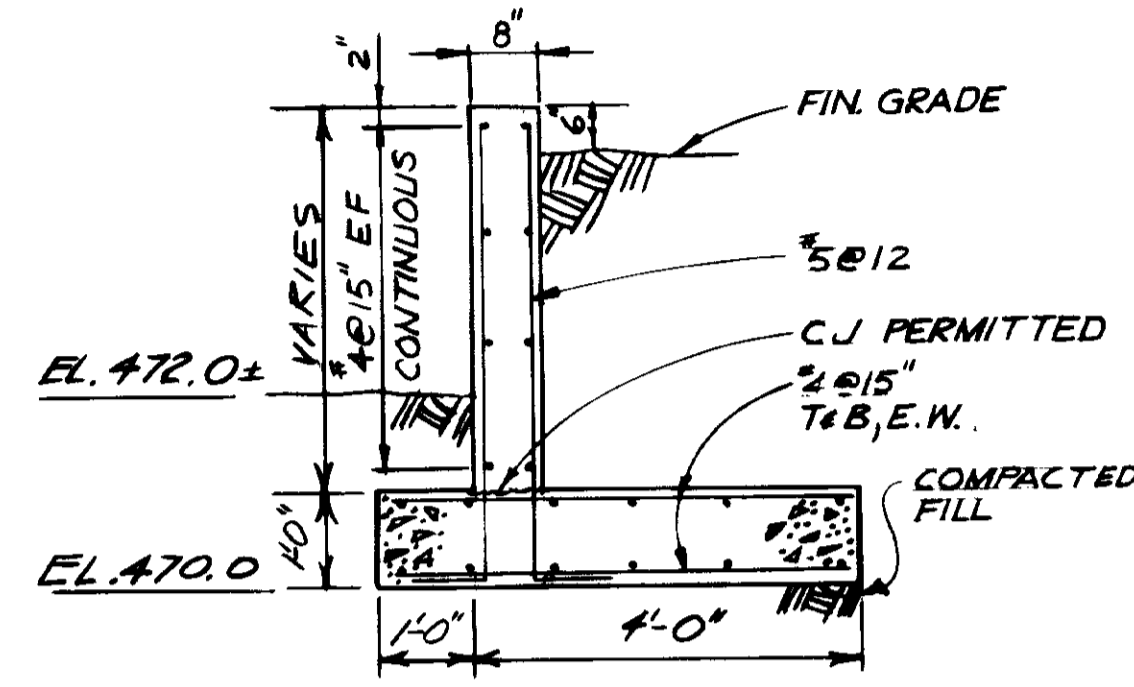
ELEVATION
1/8" = 1'-0"
5 S8-1



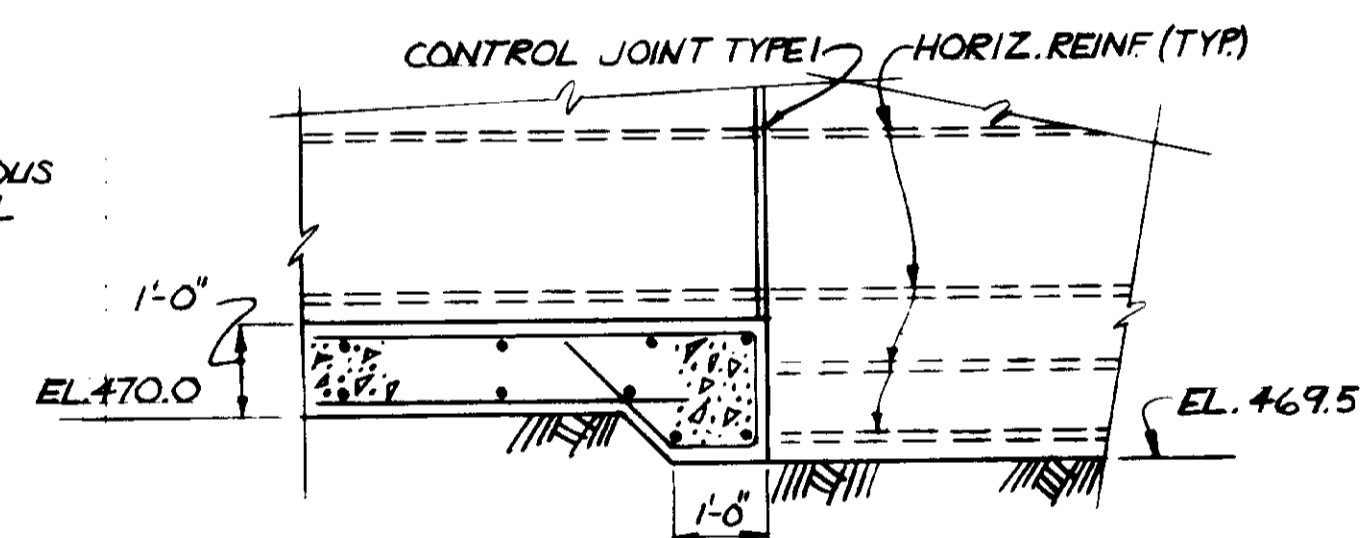
SECTION
1/2" = 1'-0"
4 S8-1 3 S8-1



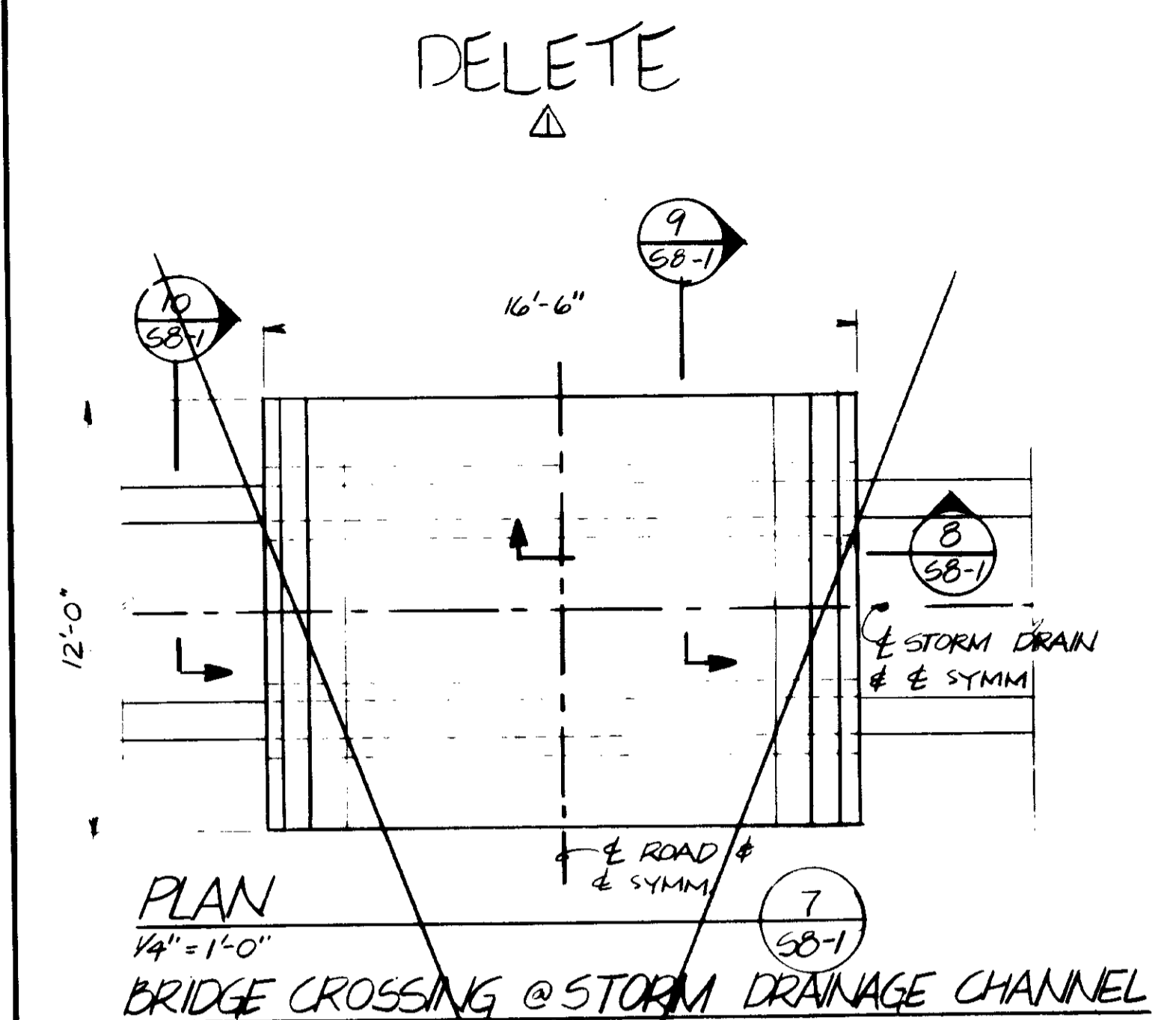
SECTION
1/2" = 1'-0"
4 S8-1



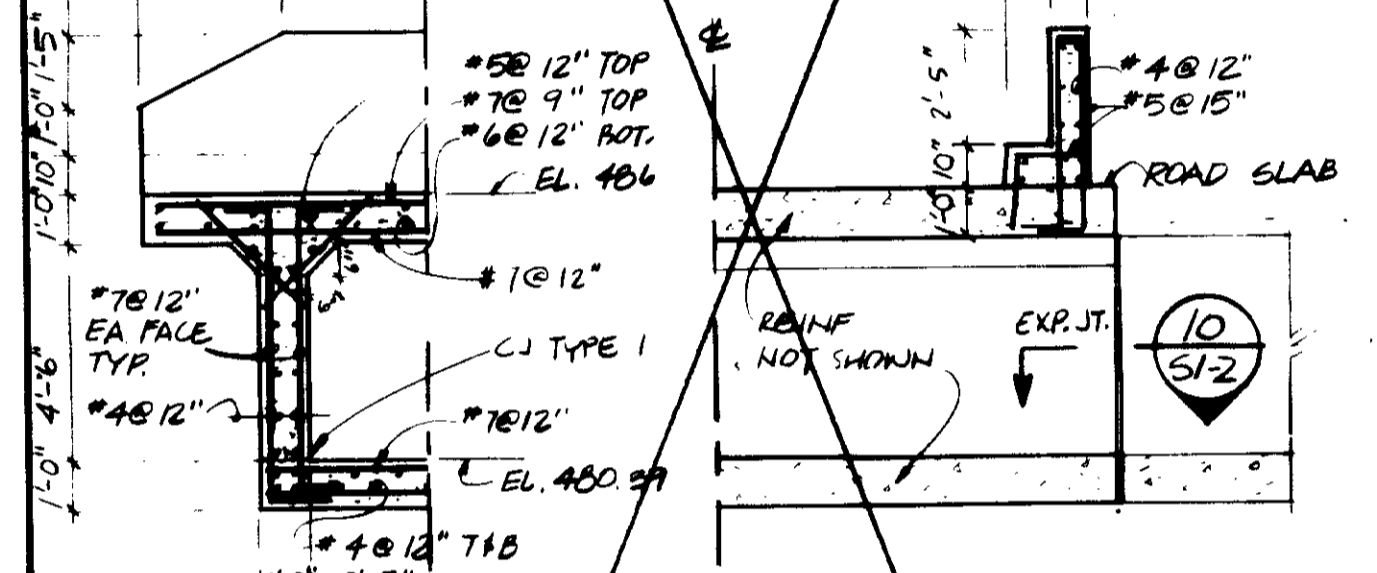
SECTION
1/2" = 1'-0"
5 S8-1



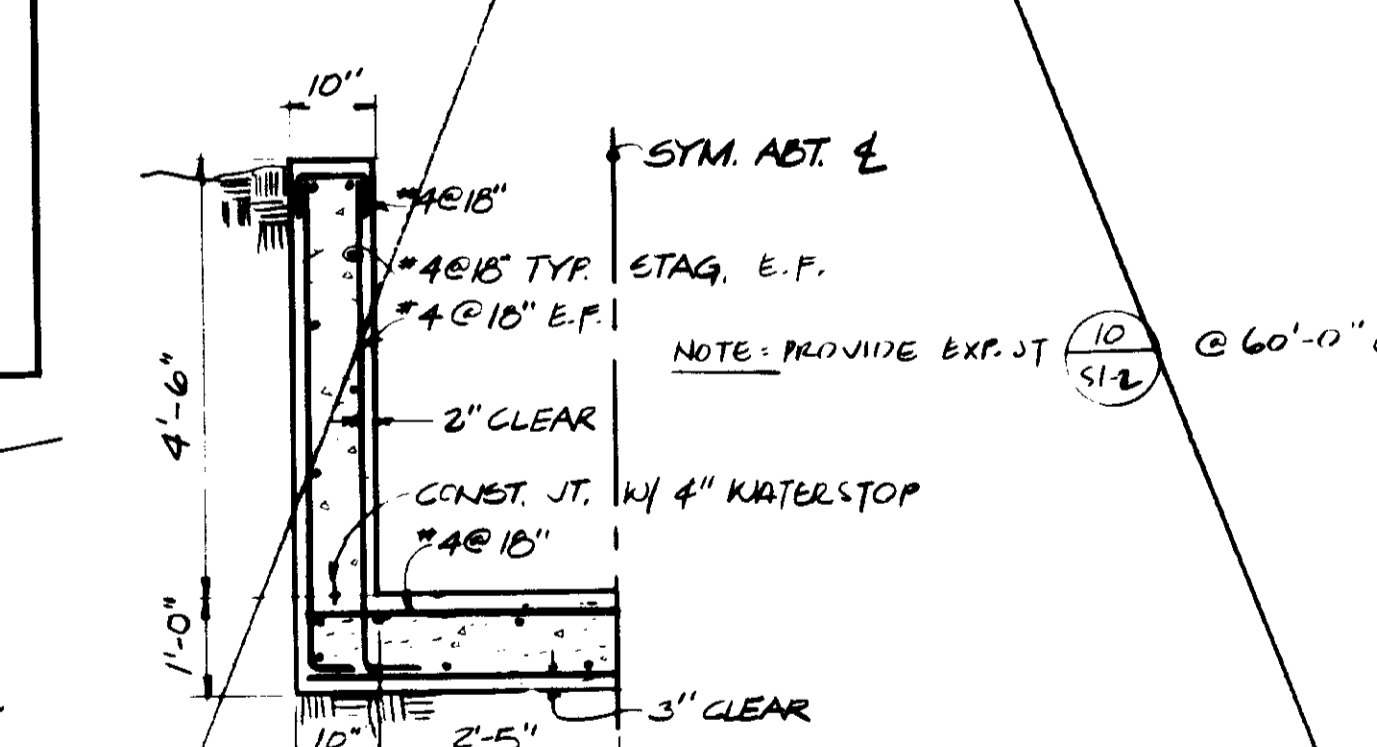
DETAIL
1/2" = 1'-0"
5 S8-1



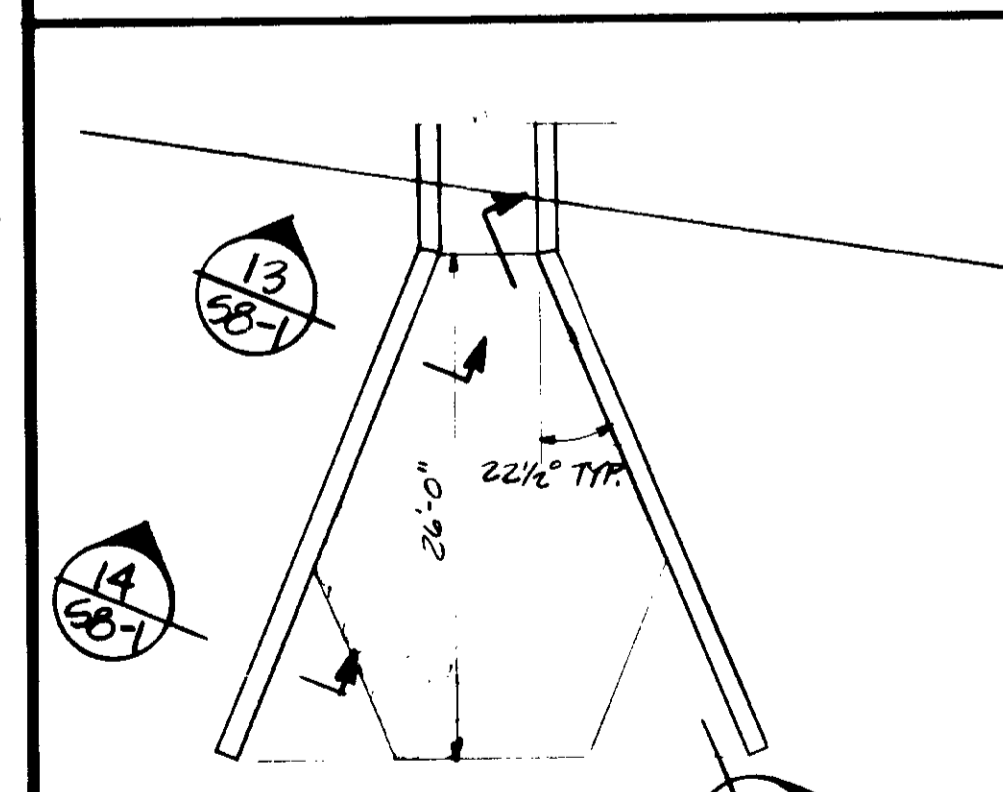
PLAN
1/4" = 1'-0"
BRIDGE CROSSING @ STORM DRAINAGE CHANNEL



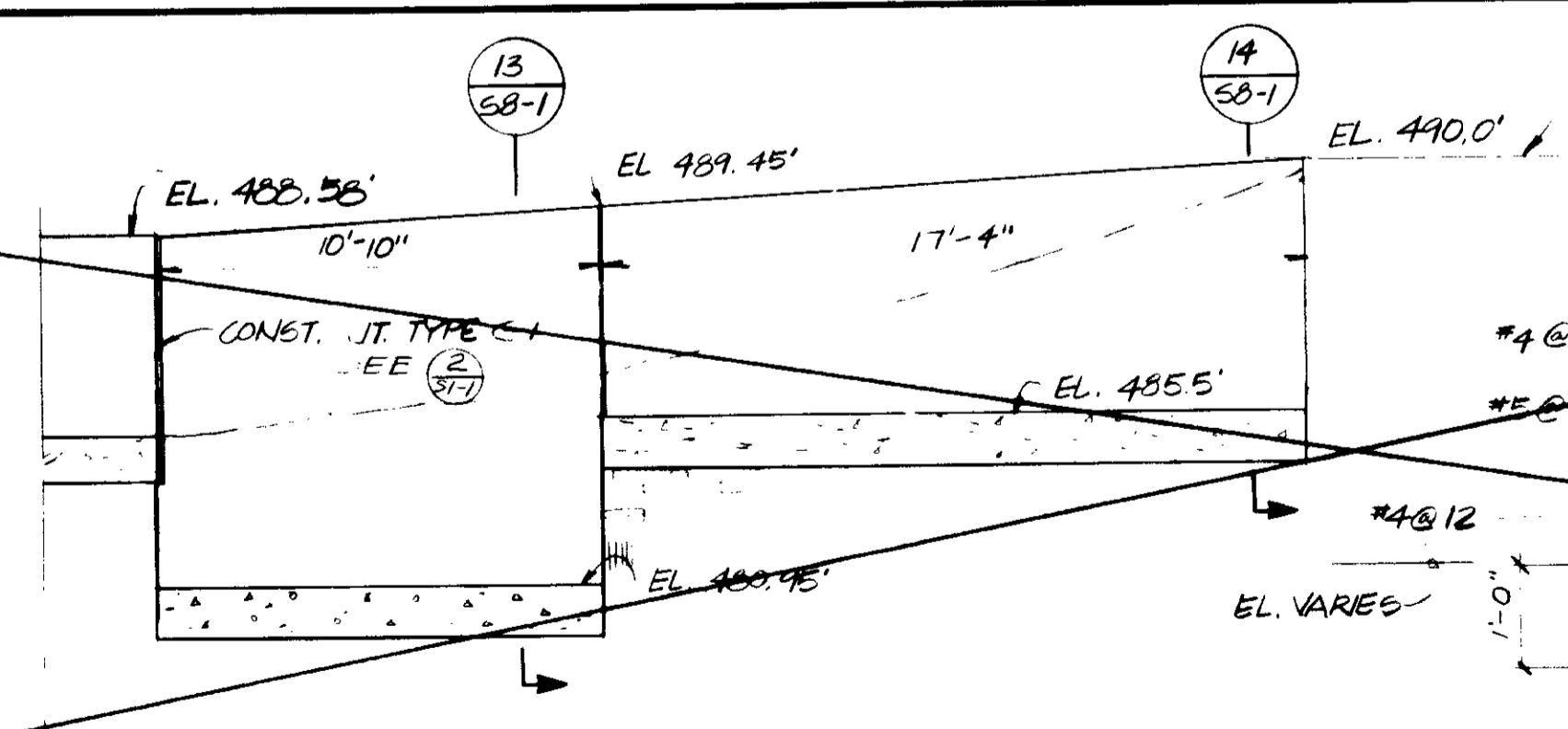
SECTION
1/4" = 1'-0"
BRIDGE CROSSING @ STORM DRAINAGE CHANNEL



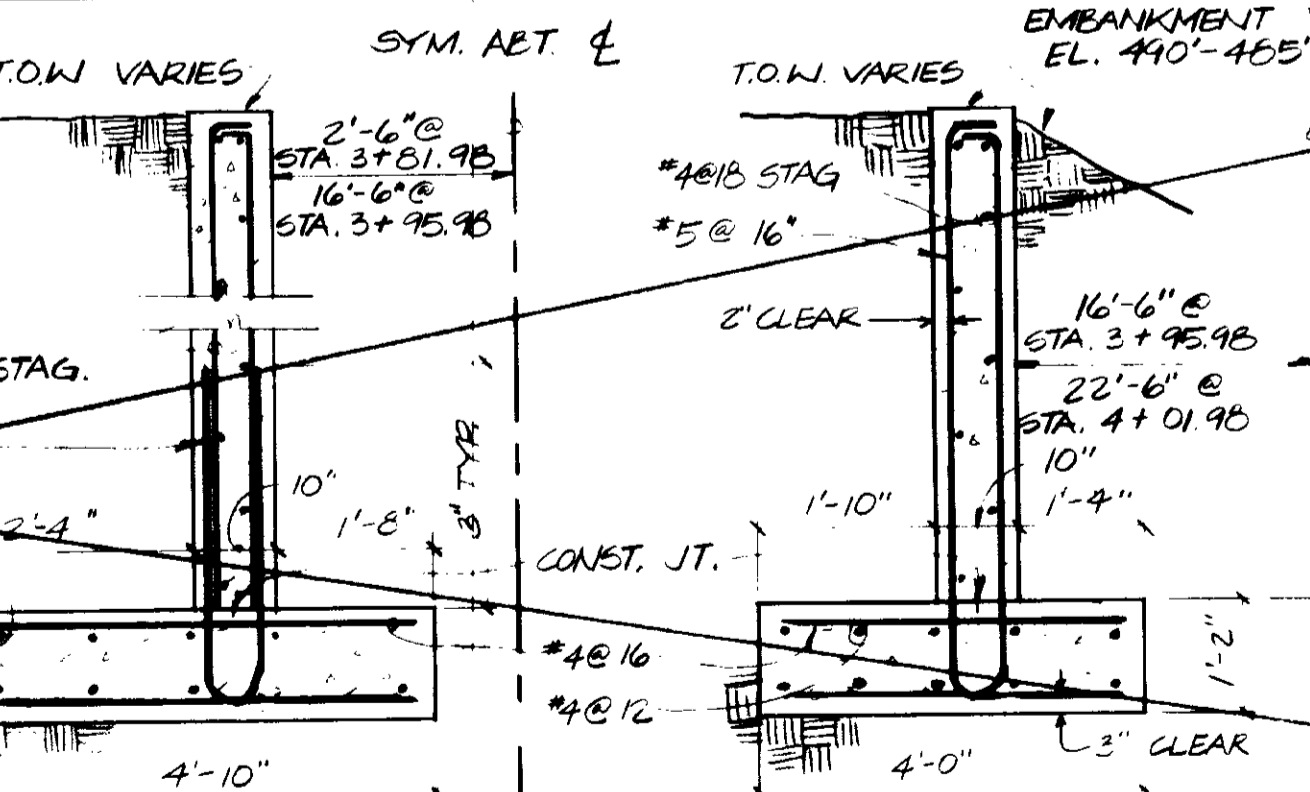
SECTION
1/2" = 1'-0"
STORM DRAIN CHANNEL



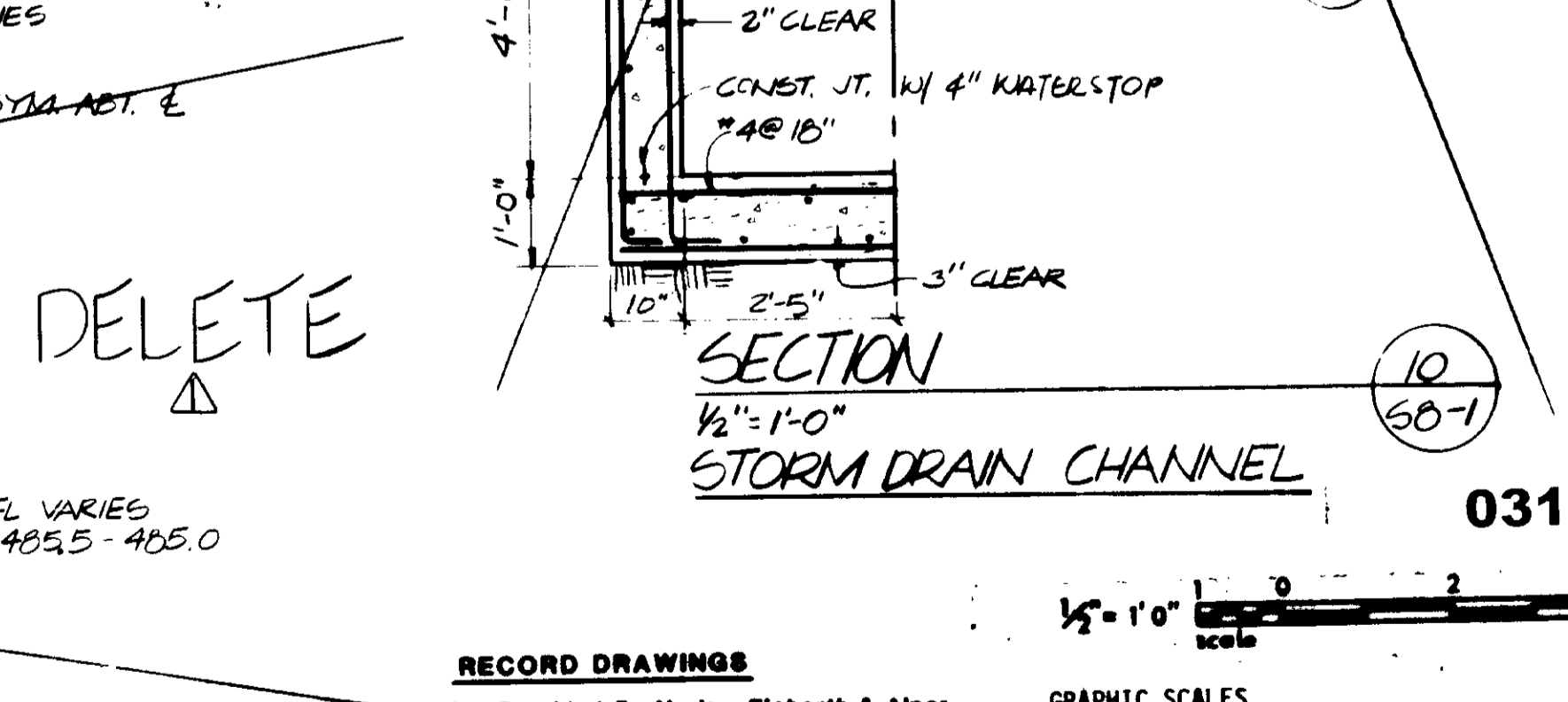
PLAN
1" = 10'-0"
STORM DRAIN INLET



SECTION
1/4" = 1'-0"
STORM DRAIN INLET



SECTION
1/2" = 1'-0"
RETAINING WALL



SECTION
1/2" = 1'-0"
RETAINING WALL

REV	DATE	BY	DESCRIPTION

SCALE :	AS SHOWN
DESIGNED :	ALP/NPS
DRAWN :	PS
CHECKED :	NP/DFS

SUBMITTED :	14038	11-5-79
PROJECT MANAGER :	R.C.E. NO.	DATE
PROJECT ADMINISTRATOR :	14894	11-5-79
R.C.E. NO.	DATE	

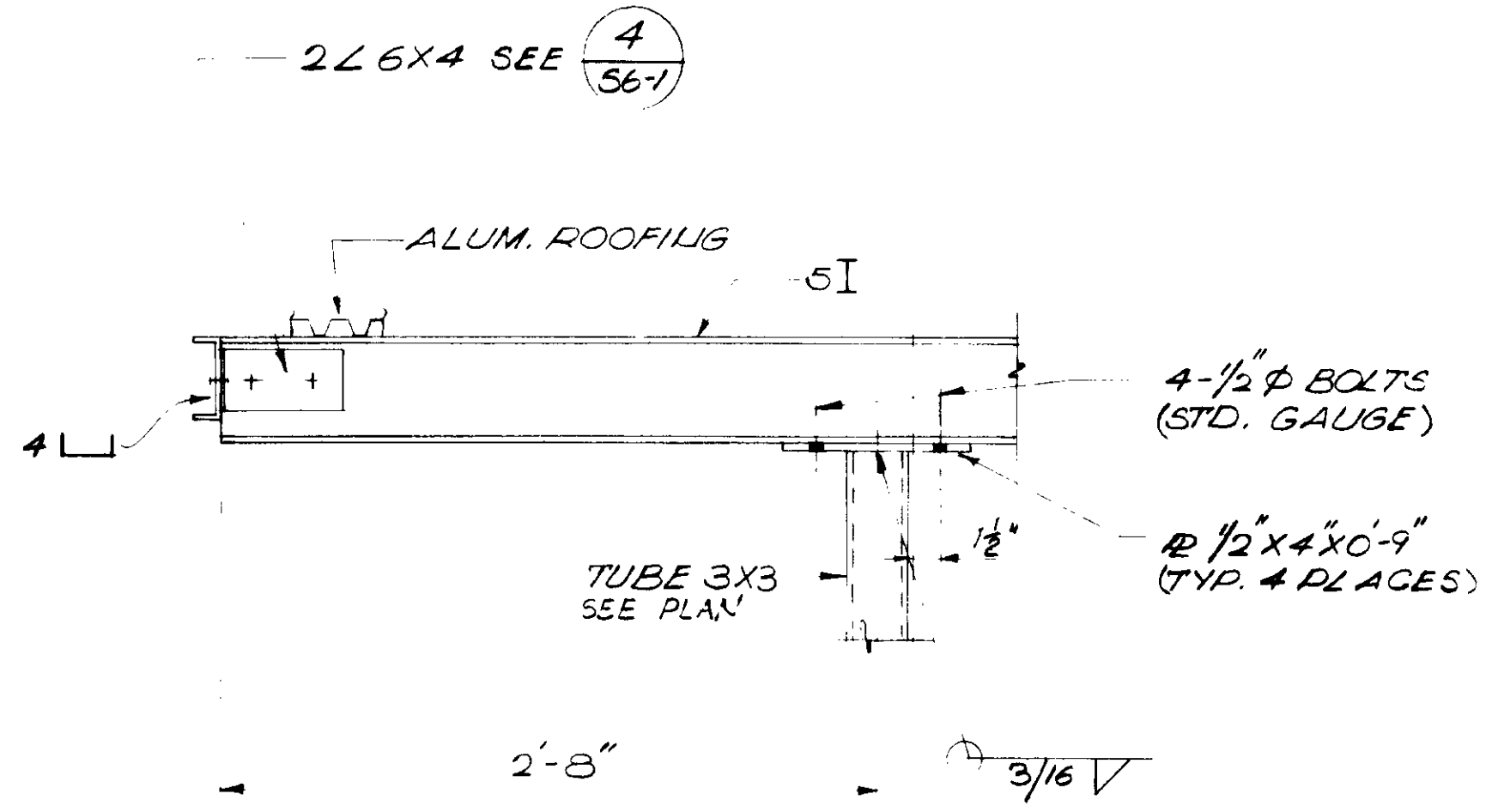
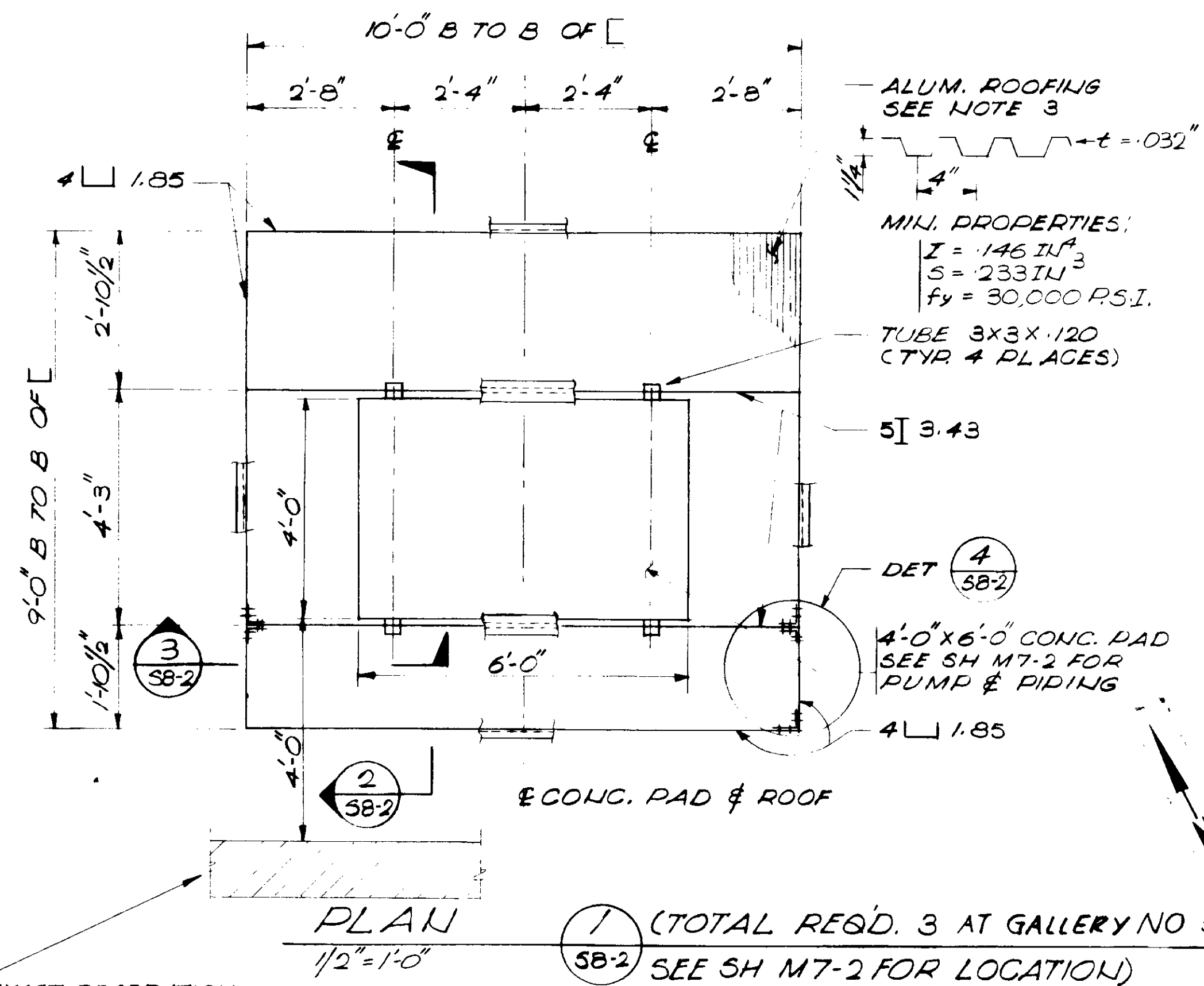
RECORD DRAWINGS Per Field Information Provided by Morley-Ziebarth & Alper <i>Yosh Katsura</i> KATSURA CONSULTING ENGINEERS March 1986		GRAPHIC SCALES DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.
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LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
RETAINING AND MISC. STRUCTURES

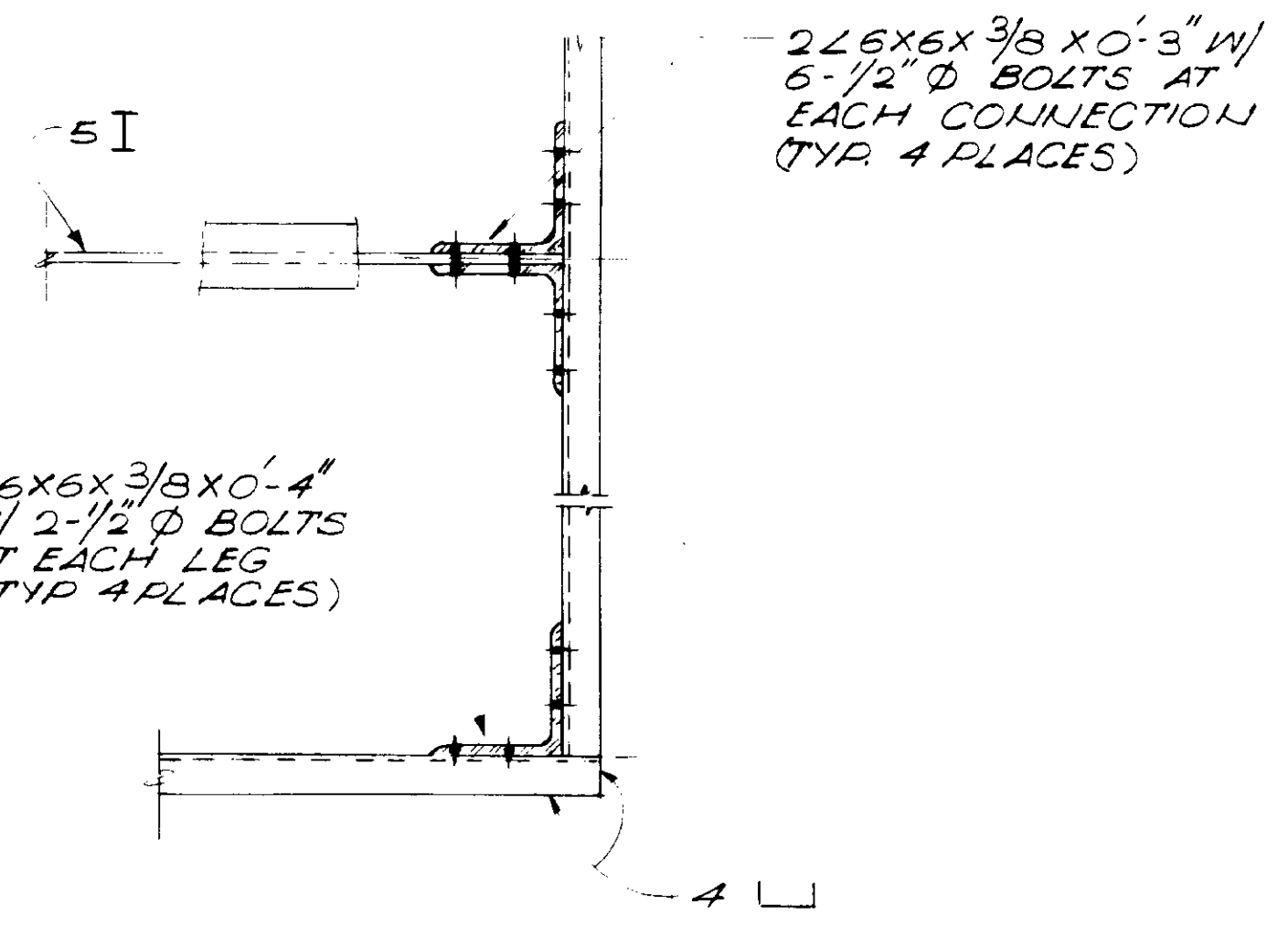
SHEET
58-1

NOTES

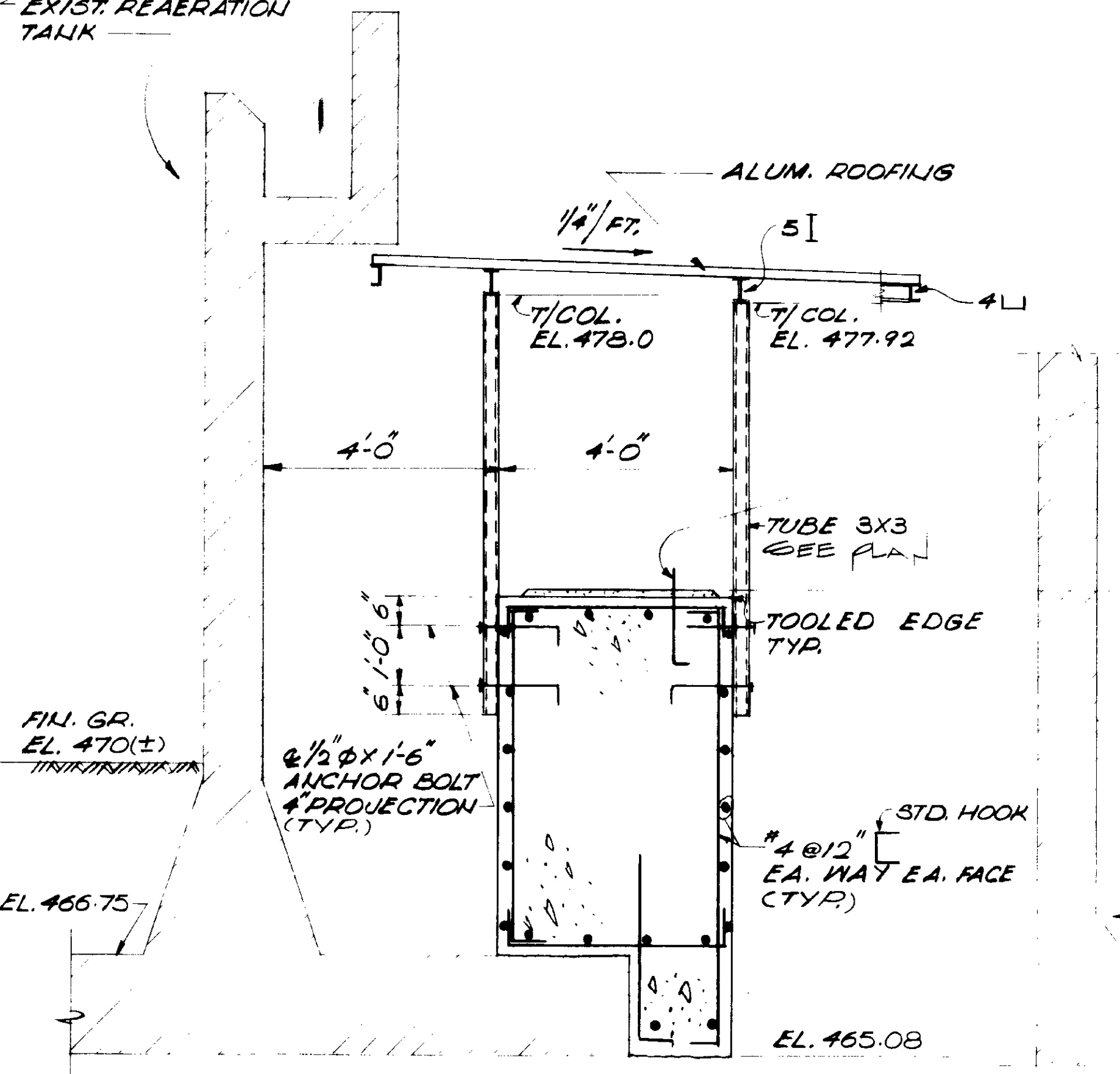
- FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS, SEE S1 SERIES DRAWINGS.
- ALL STRUCTURAL FRAMING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A221-68, 6061-T6, BOLTS, NUTS AND SCREWS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A320-68.
- ROOFING SHALL BE ALUMINUM SHEETS FABRICATED FROM .032" THICKNESS ALUMINUM ALLOY 3004-H-16 CLAD AND HAVING A FINISH TO BE DETERMINED BY THE DISTRICT ENGINEER. ATTACH ROOFING TO STRUCTURAL FRAMEWORK WITH SELF-TAPPING SCREWS AT A MAX. OF 8" ON CENTER AND SIDE LAP SCREWS AT 12" ON CENTERS. SELF-TAPPING SCREWS SHALL BE 305 STAINLESS STEEL.



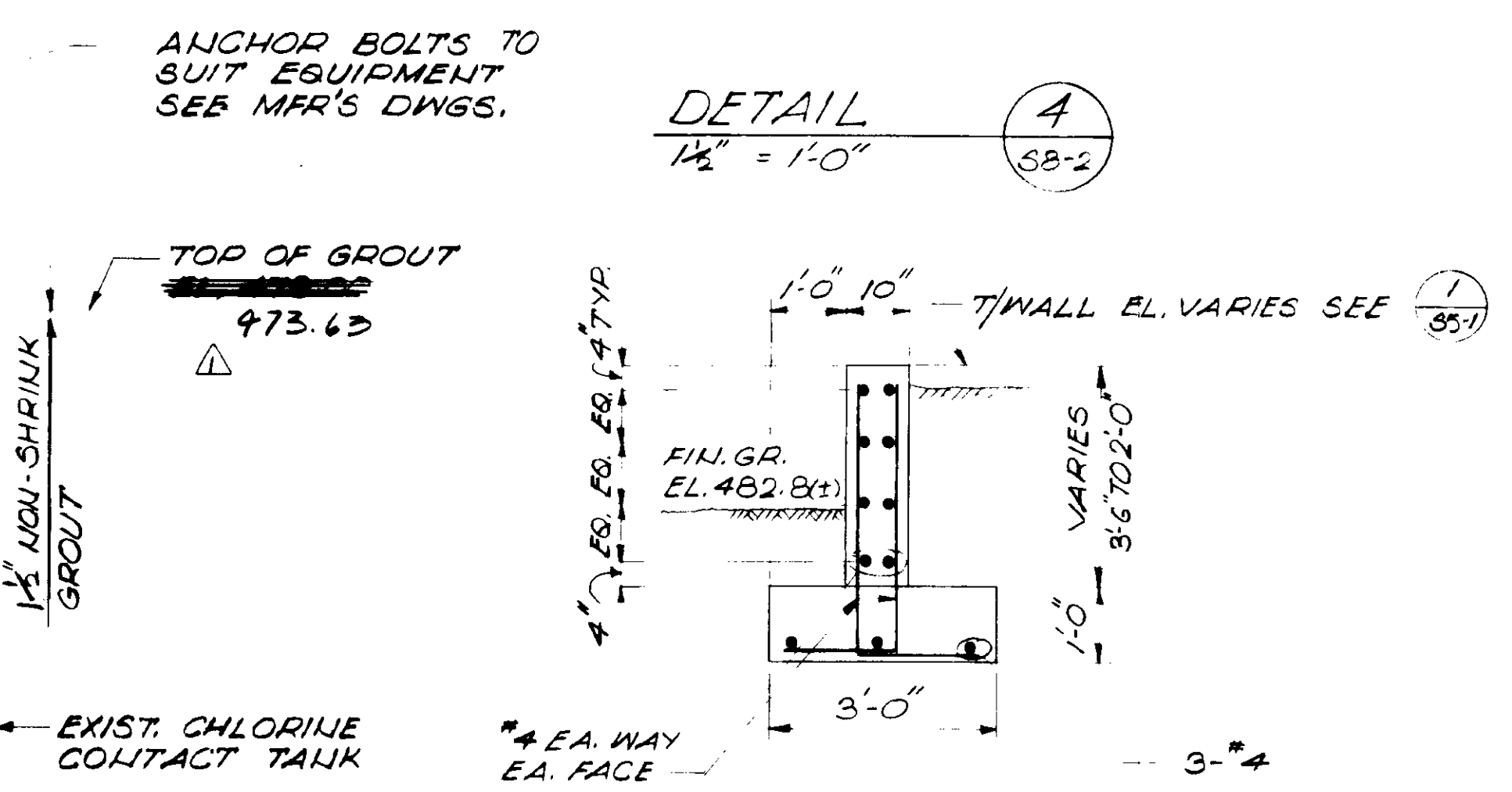
SECTION 3
1/2" = 1'-0"



DETAIL 4
1/2" = 1'-0"



SECTION 2
1/2" = 1'-0"



SECTION 5
1/2" = 1'-0"

WEATHER COVER WAS BUILT FOR PUMPS: SRT 4 & 3 AND SCREENING PUMP. SEE ALSO SINCLAIR SKETCH 3-13-81

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
John Katsura RCE 14088
KATSURA CONSULTING ENGINEERS March 1986



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03120

REV	DATE	BY	DESCRIPTION

SCALE: 1/2" = 1'-0"	DESIGNED: J. G. J. +	CHECKED: S. U. Y.

SUBMITTED: <i>John Katsura</i>	14038	8/15/79
PROJECT MANAGER: <i>John Katsura</i>	R.C.E. NO.	DATE

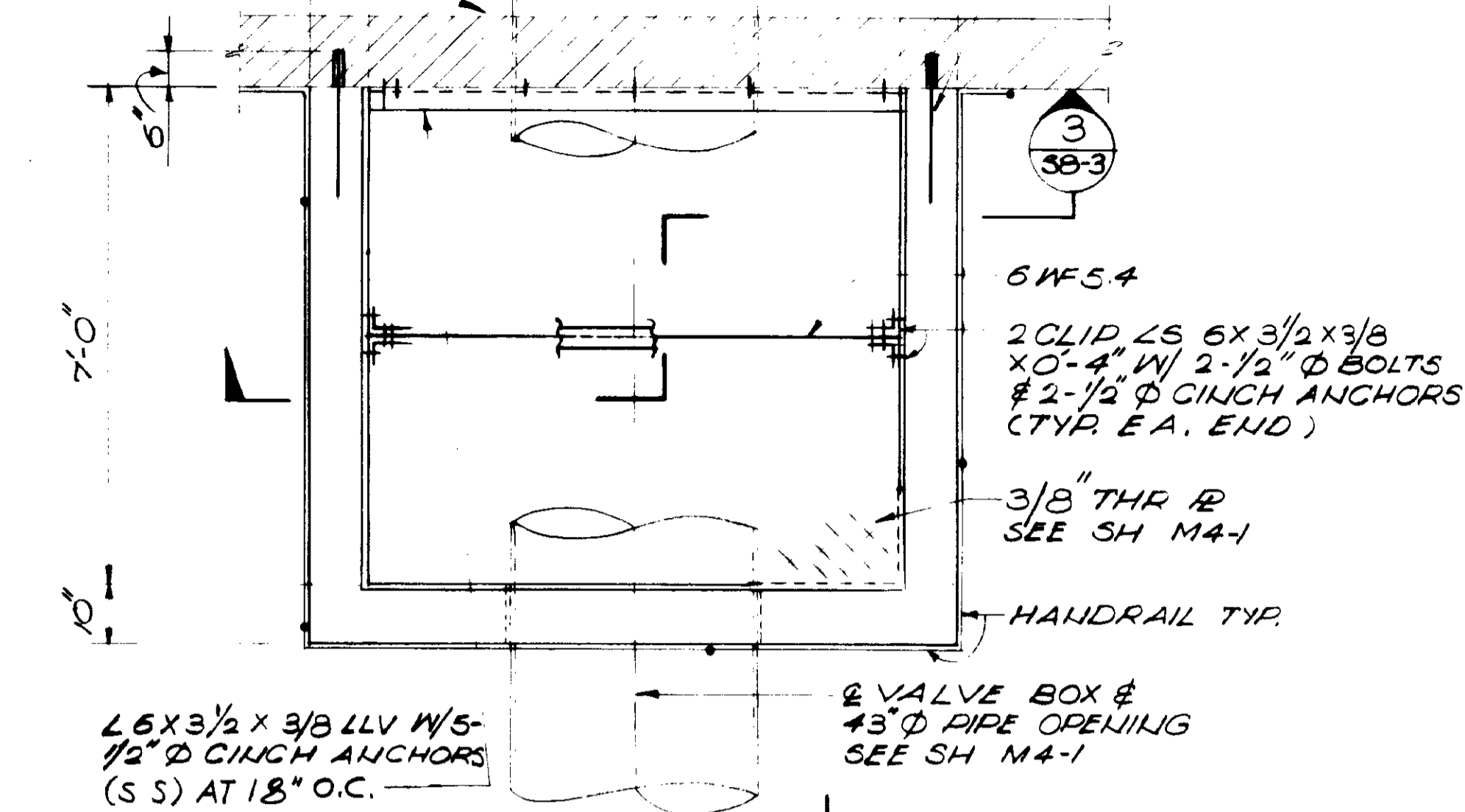
LAS VIRGENES MUNICIPAL WATER DISTRICT	
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.	
MISCELLANEOUS STRUCTURES	
VALVE BOX AT GALLERY NO. 5 & MISC. DETAILS	

SHEET	S8-2
-------	------

10" 3'-9" 3'-9" 10"

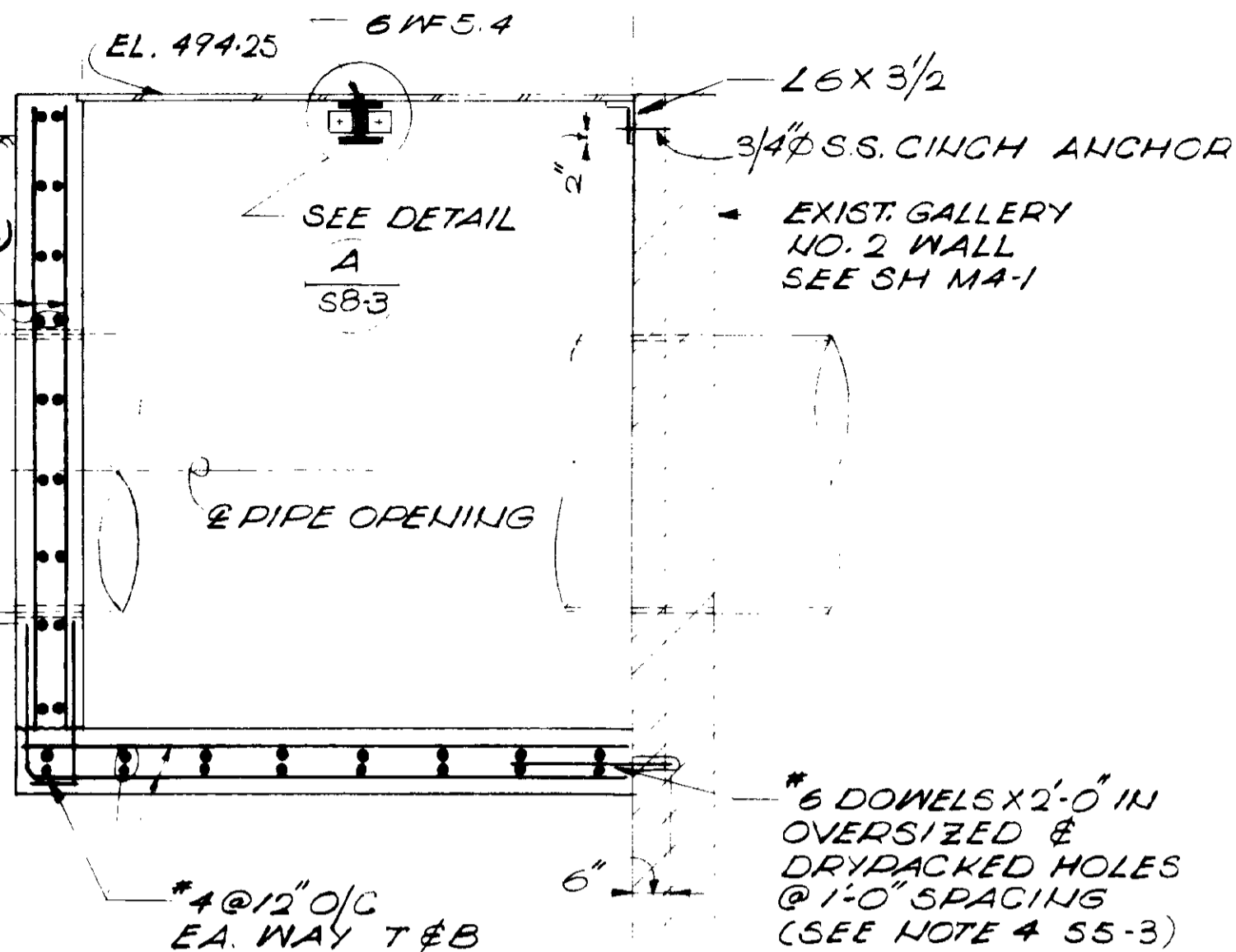
EXIST. GALLERY NO. 2 WALL SEE SH M4-1

*6 DOWELS X 2'-0" IN OVERSIZED & DRYPACKED HOLES @ 1'-0" SPACING (SEE NOTE 4 SH 55-3) (TYR)

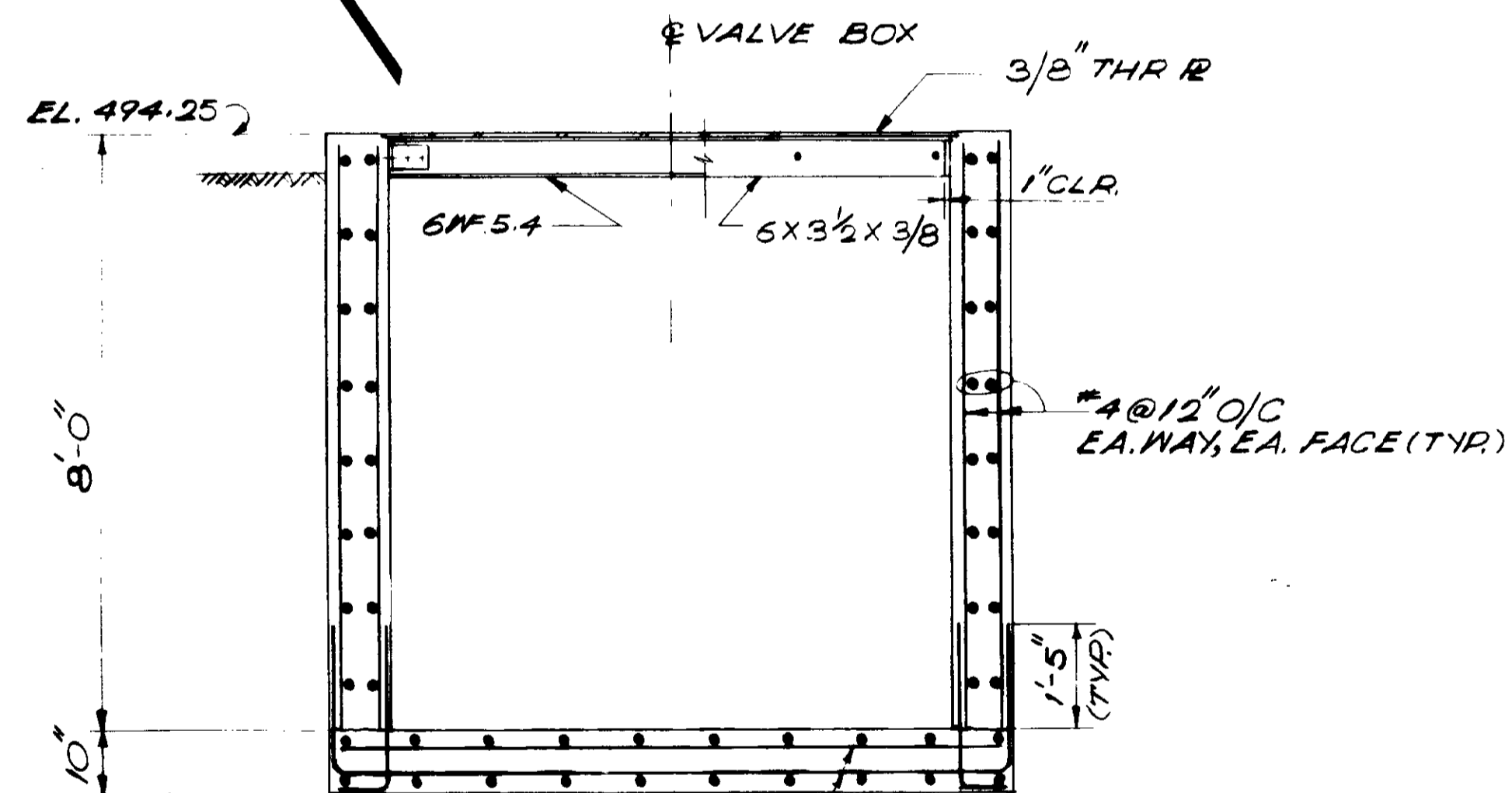


PLAN 1/2" = 1'-0" (1) SB-3

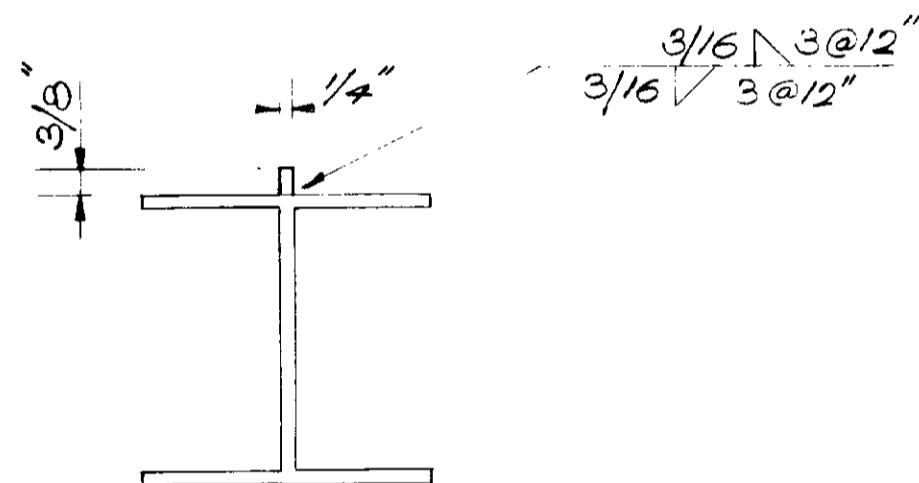
10" 7'-0"



SECTION 2 1/2" = 1'-0" (2) SB-3



SECTION 3 1/2" = 1'-0" (3) SB-3



DETAIL A (A) SB-3

FOR REINF. SEE SECTION (2)

NOTES:
1. FOR NOTES SEE SHEET SB-2

RECORD DRAWINGS

Per Field Information Provided By Morley-Zlobarth & Alper

Yoshitomo RCE 14038

KATSURA CONSULTING ENGINEERS March 1985



GRAPHIC SCALES

DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03121

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE : AS NOTED

DESIGNED: J. B. ...
DRAWN: E. J. Y.
CHECKED: ...

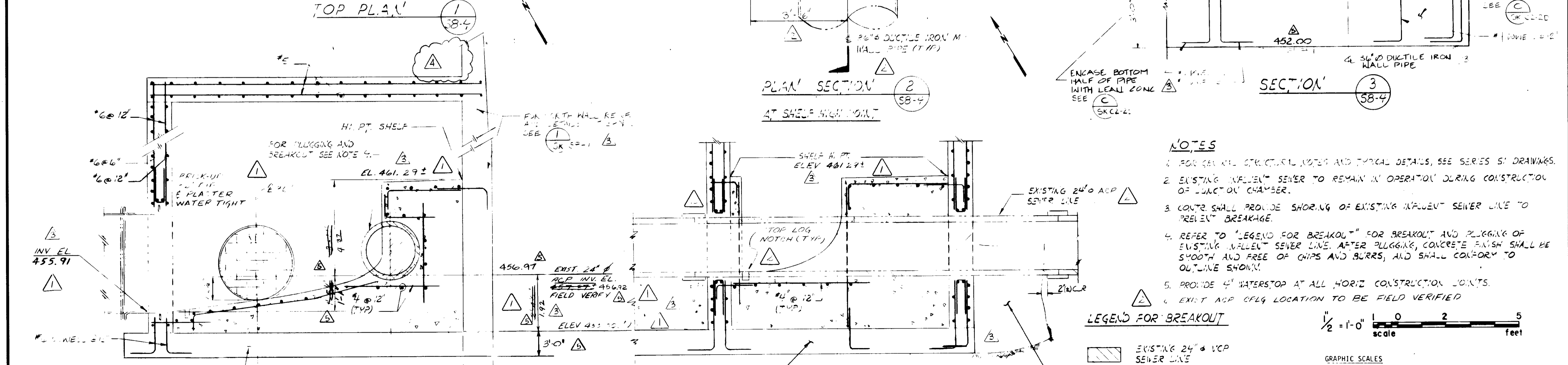
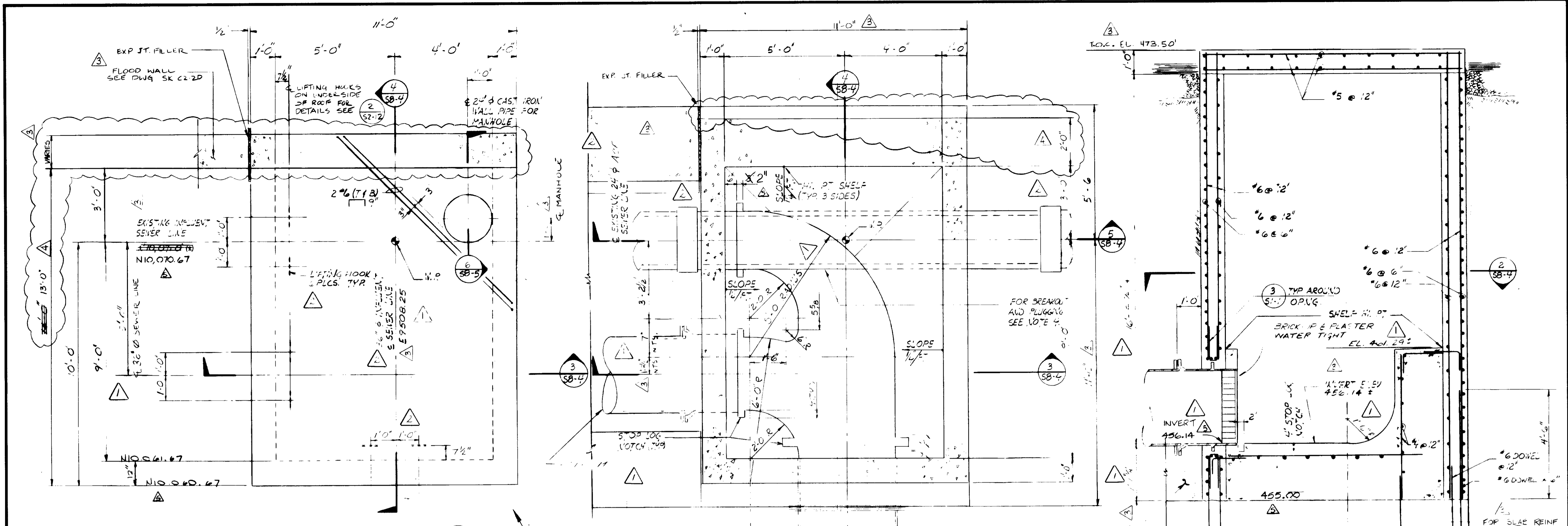
SUBMITTED: *Yoshitomo*
PROJECT MANAGER: 14038 8/15/79
PROJECT ADMINISTRATOR: 14894 8/15/79

JKE CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-8117

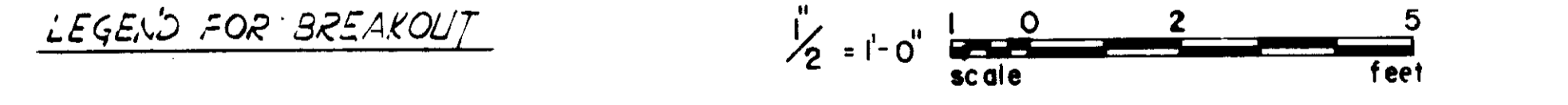
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
MISCELLANEOUS STRUCTURES
WEATHER COVER AT GALLERY NO. 5 & MISC. DETAILS

SHEET S8-3

SHT. 9 OF 19



- NOTES**
- FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS, SEE SERIES S1 DRAWINGS.
 - EXISTING INFLENT SEWER TO REMAIN IN OPERATION DURING CONSTRUCTION OF JUNCTION CHAMBER.
 - CONTR SHALL PROVIDE SHORING OF EXISTING INFLENT SEWER LINE TO PREVENT BREAKAGE.
 - REFER TO "LEGEND FOR BREAKOUT" FOR BREAKOUT AND PLUGGING OF EXISTING INFLENT SEWER LINE. AFTER PLUGGING, CONCRETE FINISH SHALL BE SMOOTH AND FREE OF CHIPS AND BURRS, AND SHALL CONFORM TO OUTLINE SHOWN.
 - PROVIDE 4" WATERSTOP AT ALL HORIZ CONSTRUCTION JOINTS.
 - EXIST ACP CFLG LOCATION TO BE FIELD VERIFIED.



RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Yup K. Katsaris RCE 14038
KATRINA CONSULTING ENGINEERS March 1988

SECTION 4 (SB-4)
SECTION 5 (SB-4)

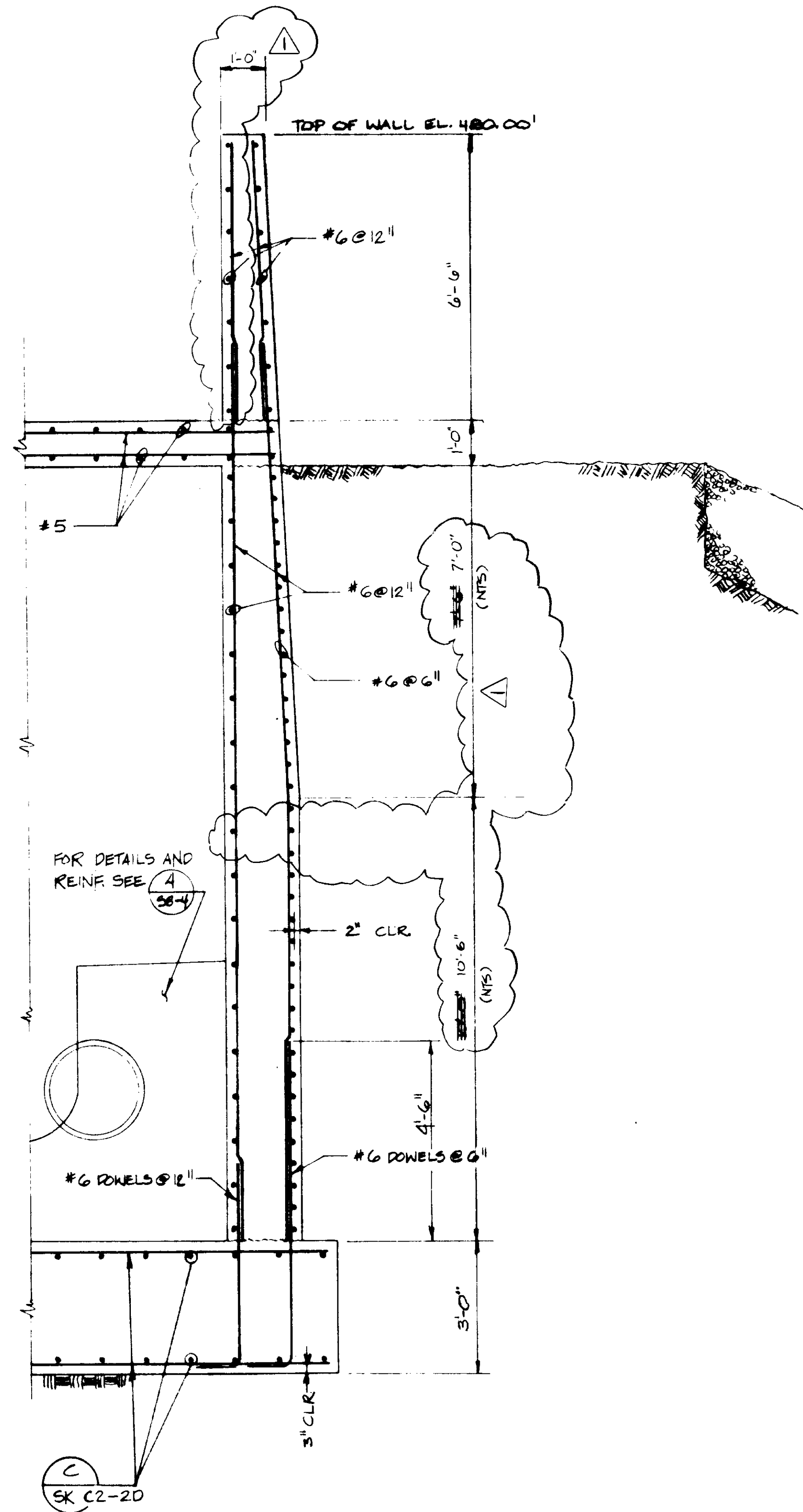
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
1	8/15/79	YK	COASTAL COMMISSION REV. PART 1	1	8/15/79	YK	COASTAL COMMISSION REV. PART 1
2	8/15/79	YK	COASTAL COMMISSION REV. PART 2	2	8/15/79	YK	COASTAL COMMISSION REV. PART 2
3	8/15/79	YK	CHANGE 4" TO 36" MI 2 ACP	3	8/15/79	YK	CHANGE 4" TO 36" MI 2 ACP
4	8/15/79	YK	OAK TREE PRE-ERV MOD.	4	8/15/79	YK	OAK TREE PRE-ERV MOD.

03122
EW-C5-7

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
MISCELLANEOUS STRUCTURES
JUNCTION CHAMBER No. 1

JK CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

SCALE: NONE
DESIGNED: K. REALY
DRAWN: K. REALY
CHECKED: K. REALY



SECTION 1
SCALE 1/4" = 1'-0" SK 58-4A

03123

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yoshitaka
KATSURA CONSULTING ENGINEERS RCE 14088
March 1985

REFERENCE: SK 58-4A

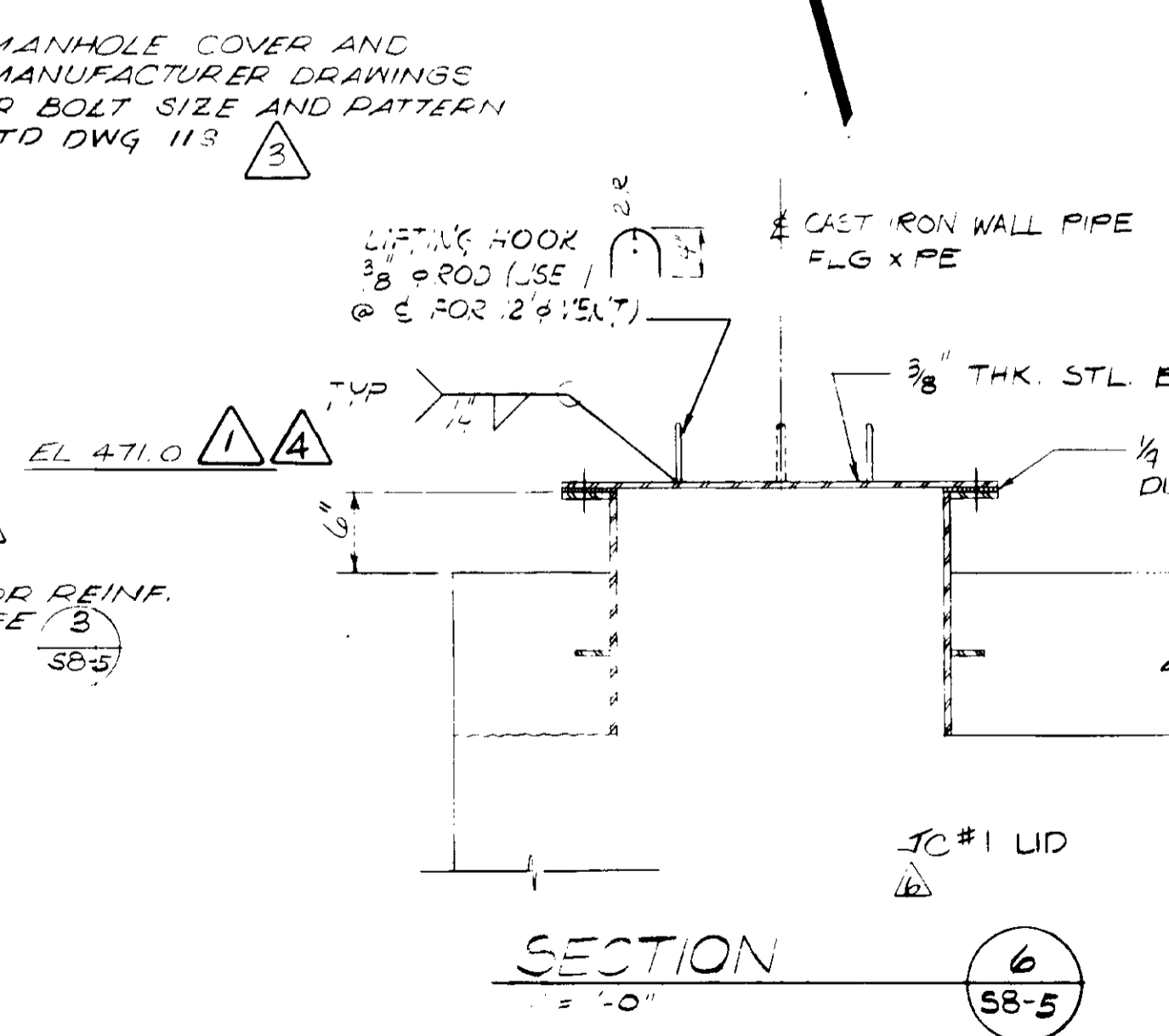
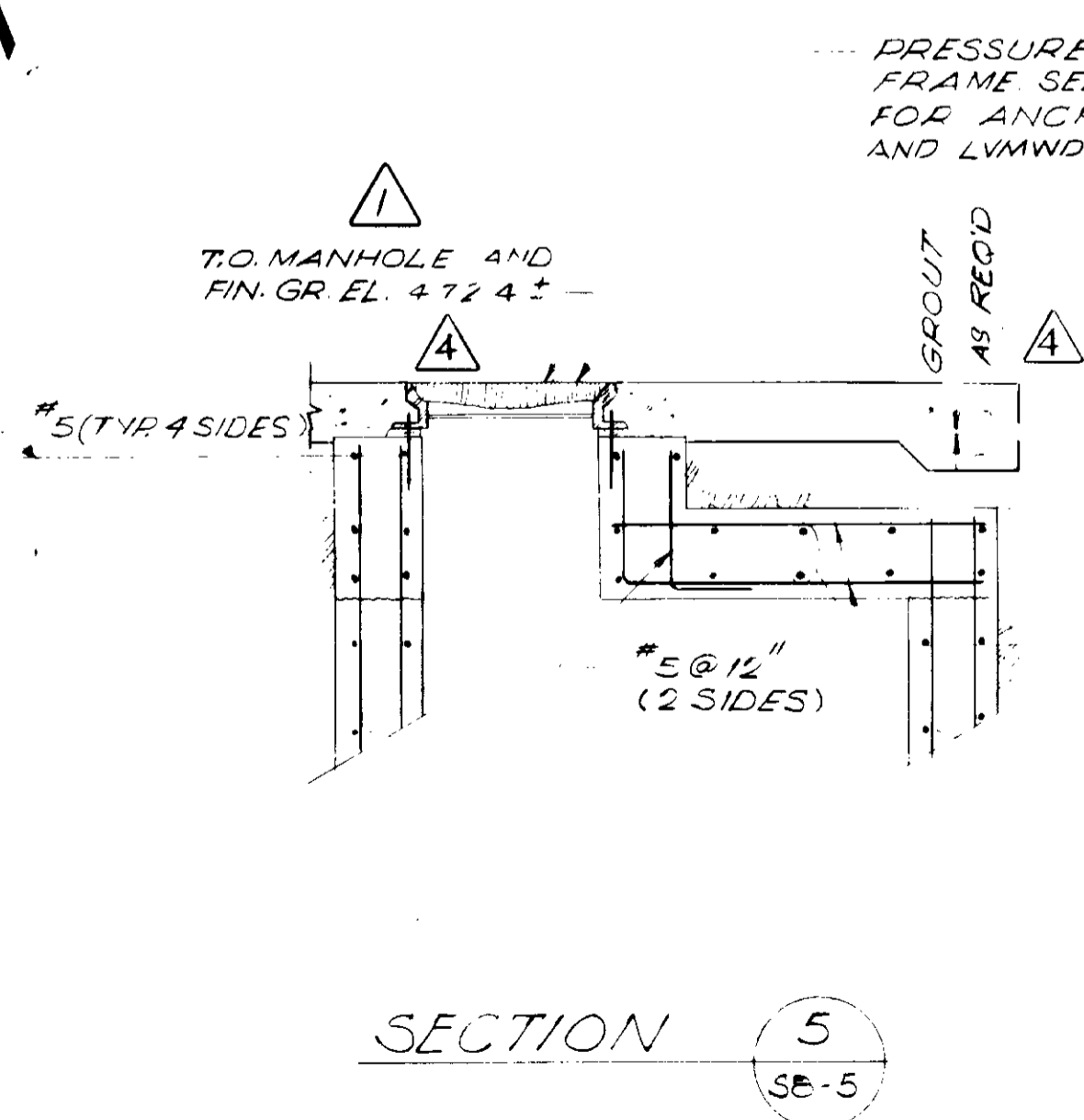
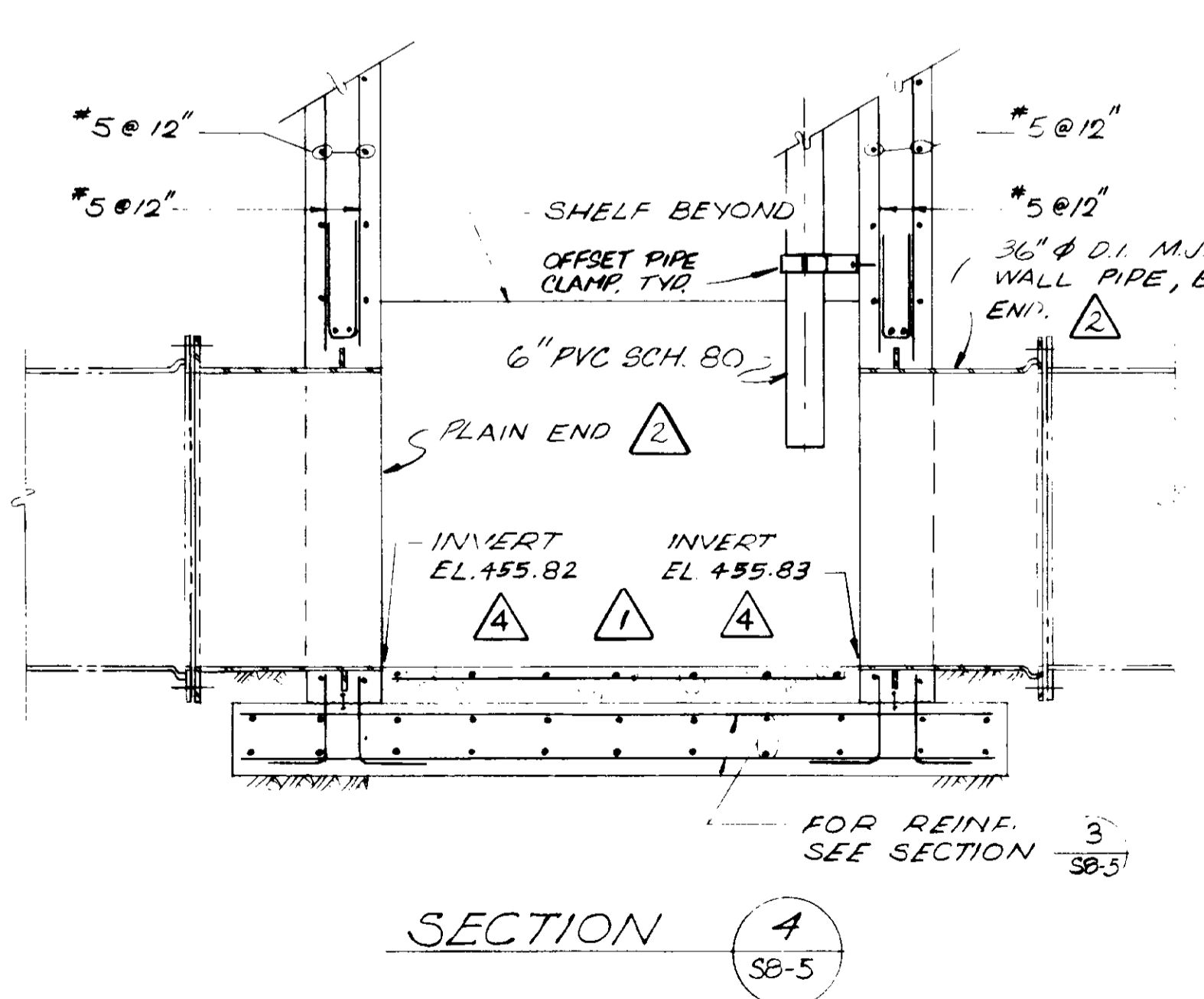
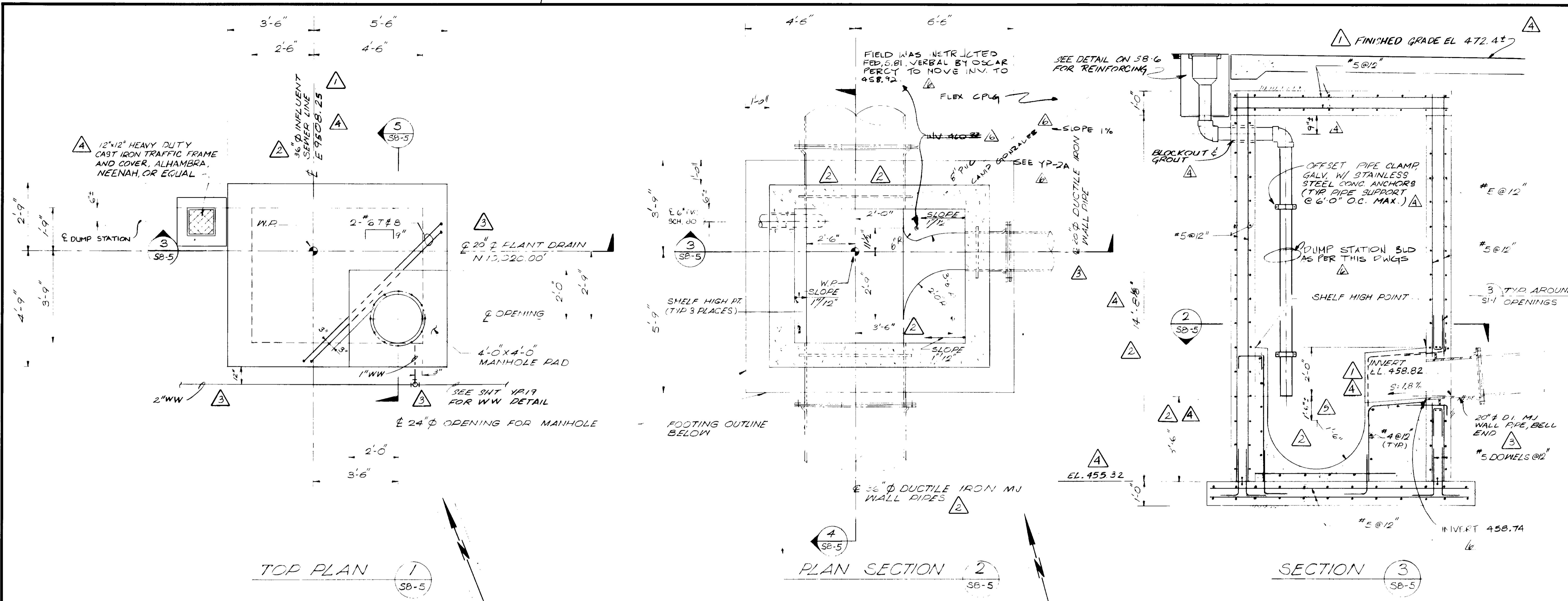
EW-C5-7

REV	DATE	BY	DESCRIPTION
1	8-15-80	Y.K.	CONSTR. COMM. REV. PART 1

DATE: 8-15-80
BY: Y.K.

JUNCTION CHAMBER NO. 1

SHEET
S8-4A



- NOTES**
- FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS SEE SERIES S1 DRAWINGS.
 - PROVIDE 4" WATERSTOPS AT ALL HORIZ. CONSTRUCTION JOINTS.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alder
Yoshitomo RCE 14038
 KATSURA CONSULTING ENGINEERS March 1986

GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03124

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
1	9-4-80	YK	COASTAL COMMISSION REV. PART 1	1	9-4-80	YK	COASTAL COMMISSION REV. PART 1
2	12-21-79	YK	MISC. ADD & CLARIFICATION	2	12-21-79	YK	MISC. ADD & CLARIFICATION
3	12-20-79	YK	RED 4.8" TO 36"; MISC. MOD.	3	12-20-79	YK	RED 4.8" TO 36"; MISC. MOD.
4	9-4-80	YK	CLARIFICATION	4	9-4-80	YK	CLARIFICATION
5	12-20-79	YK	OAK TREE PRESERV. MOD.	5	12-20-79	YK	OAK TREE PRESERV. MOD.

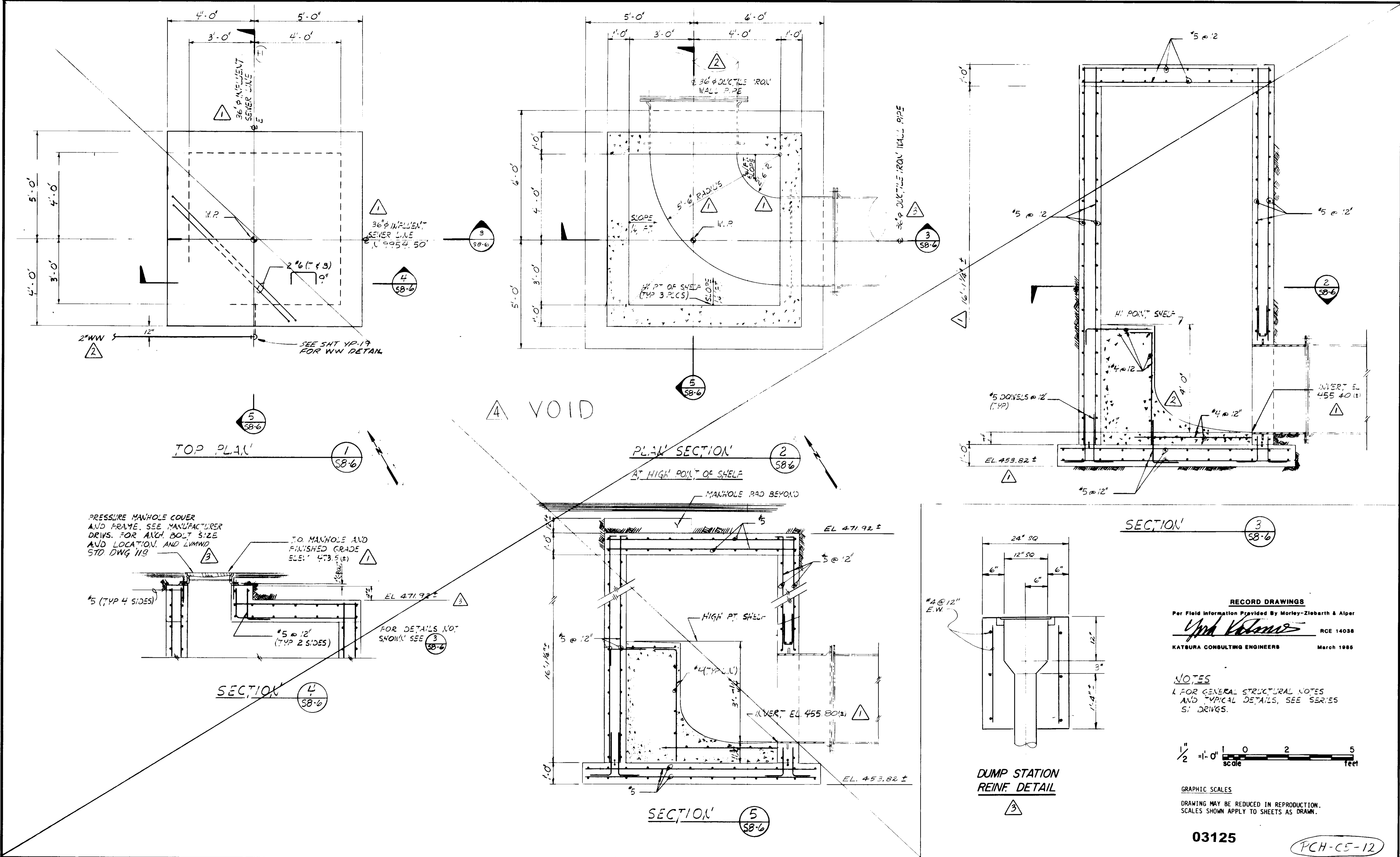
SCALE: NONE

DESIGNED	R. LEE	SUBMITTED	14038	8/15/79
DRAWN	K. KATAYAMA	PROJECT MANAGER	R.C.E. NO.	DATE
CHECKED		PROJECT ADMINISTRATOR	14894	8/15/79
			R.C.E. NO.	DATE

JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-1117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 MISCELLANEOUS STRUCTURES - JUNCTION CHAMBER NO. 2
 PLANS & SECTIONS

SHEET S8-5



PRESSURE MANHOLE COVER AND FRAME. SEE MANUFACTURER DRWS. FOR ANCH. BOLT SIZE AND LOCATION. AND LUMWD STD DWG 119.

TO MANHOLE AND FINISHED GRADE ELE: 473.5 (±)

FOR DETAILS NOT SHOWN SEE SHEET 3 SB-6

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yph Volante RCE 14038
 KATSURA CONSULTING ENGINEERS March 1986

NOTES
 1. FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS, SEE SERIES S1 DRWS.



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03125

PCH-C5-12

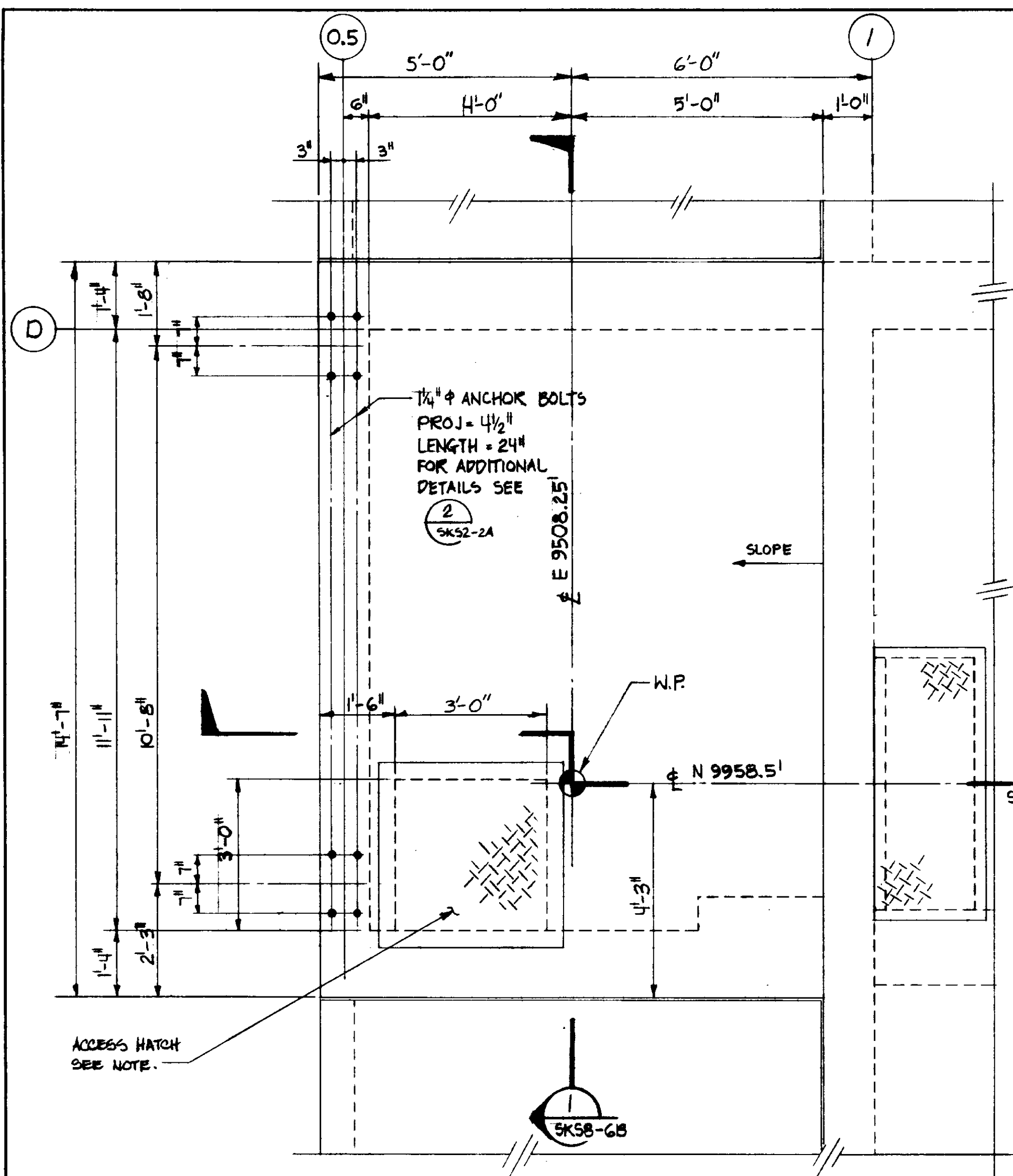
REV	DATE	BY	DESCRIPTION
1	12-3-01	R.L.	COASTAL COMM REV PART 1
2	12-20-79	Y.K.	ADD DUMP STATION & MISC
3	12-20-79	Y.K.	RED. 48" TO 36" ; MISC. ADD.
4	12-20-79	Y.K.	OAK TREE PRESERV MOD

SCALE : NONE	DESIGNED R. LEE	SUBMITTED <i>[Signature]</i>	14038	8/15/79
CHECKED K. RAHMAN	PROJECT MANAGER <i>[Signature]</i>	R.C.E. NO.	DATE	
	PROJECT ADMINISTRATOR <i>[Signature]</i>	14894	8/15/79	
		R.C.E. NO.	DATE	

JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

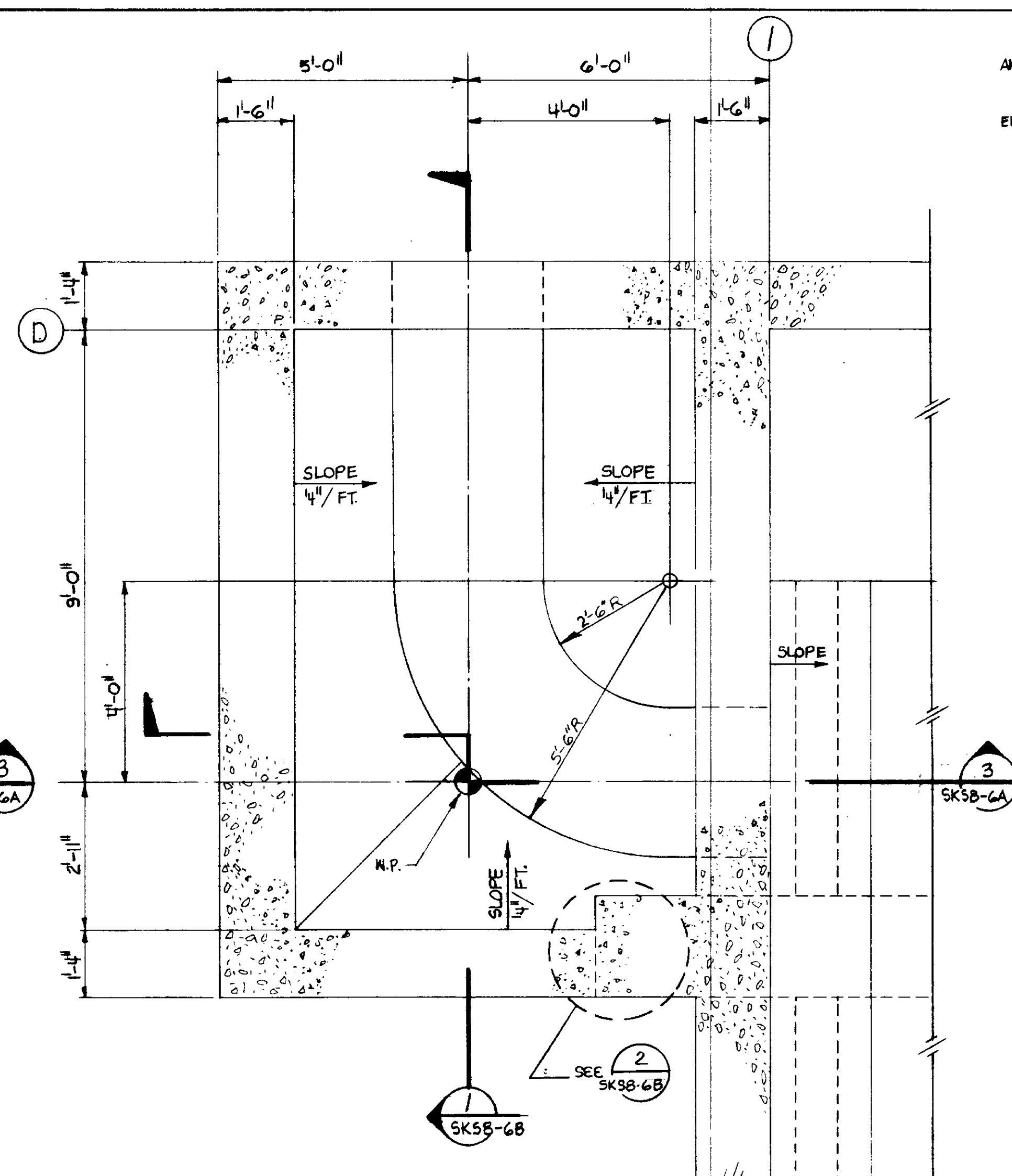
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 MISCELLANEOUS STRUCTURES
 JUNCTION CHAMBER NO. 3

SHEET
S8-6

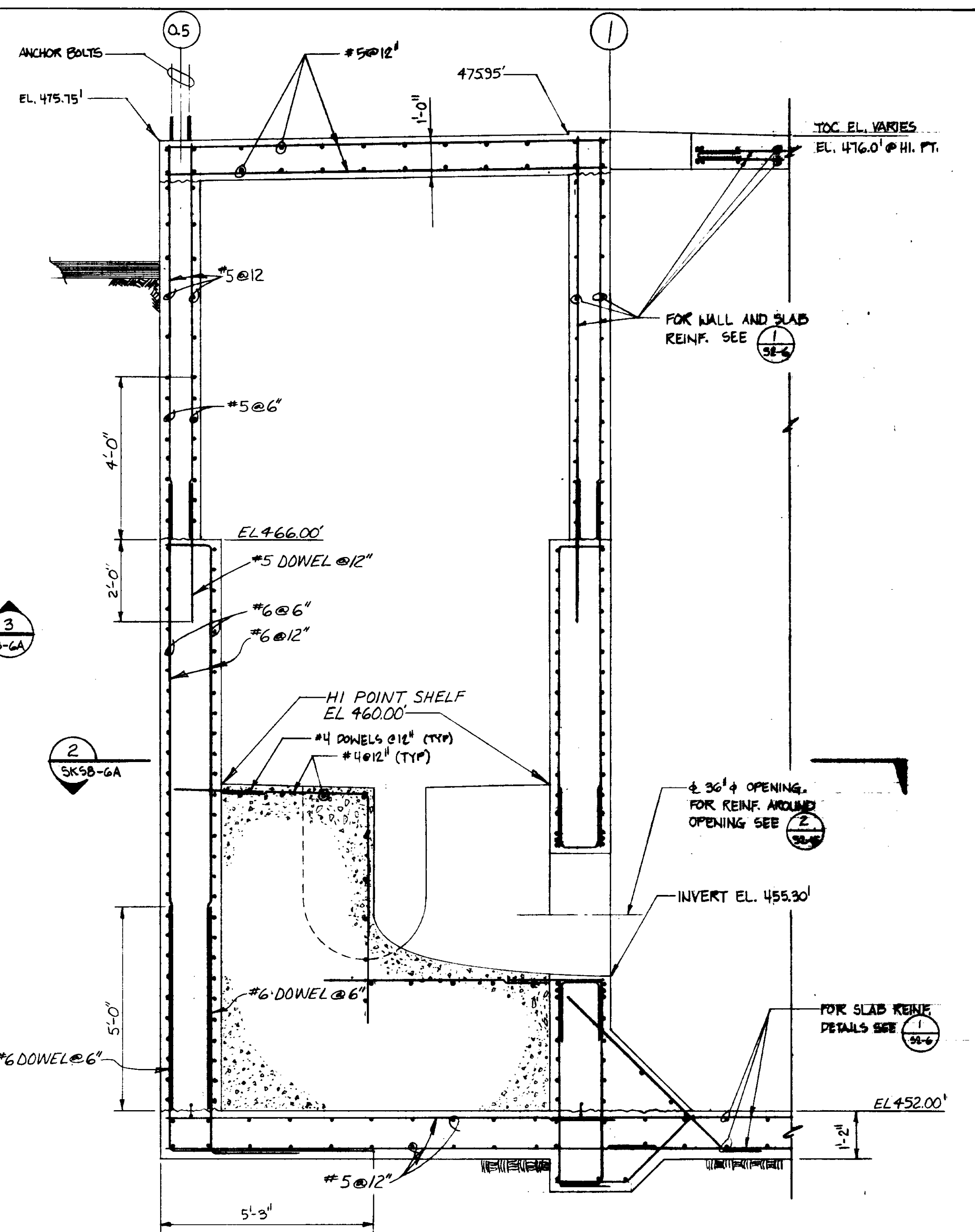


TOP PLAN
SCALE: 1/2" = 1'-0"
SKSB-6A

NOTE:
PERSONNEL ACCESS HATCH SHALL BE 36" X 36" PER SPECIFICATION 15.5.9 ADDENDUM NO. 2. LOCATE HATCH HINGES ON NORTH EDGE. CONTRACTOR SHALL PROVIDE HATCH DRAIN PIPE TO DRAIN TOWARDS CHAMBER INTERIOR.



PLAN SECTION
SCALE: 1/2" = 1'-0"
SKSB-6A



SECTION
SCALE: 1/2" = 1'-0"
SKSB-6A

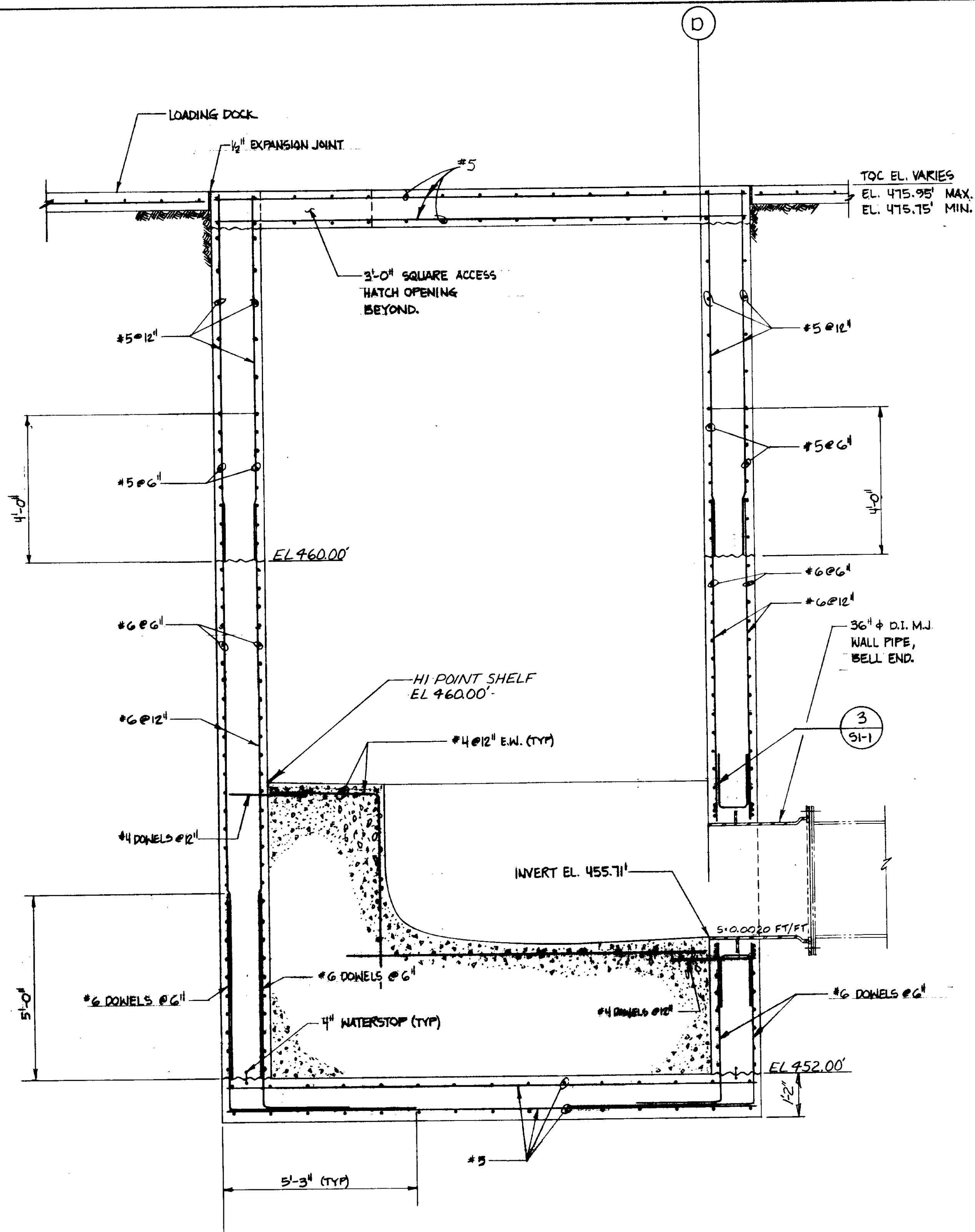
03126

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura
KATSURA CONSULTING ENGINEERS RCE 14088
March 1988

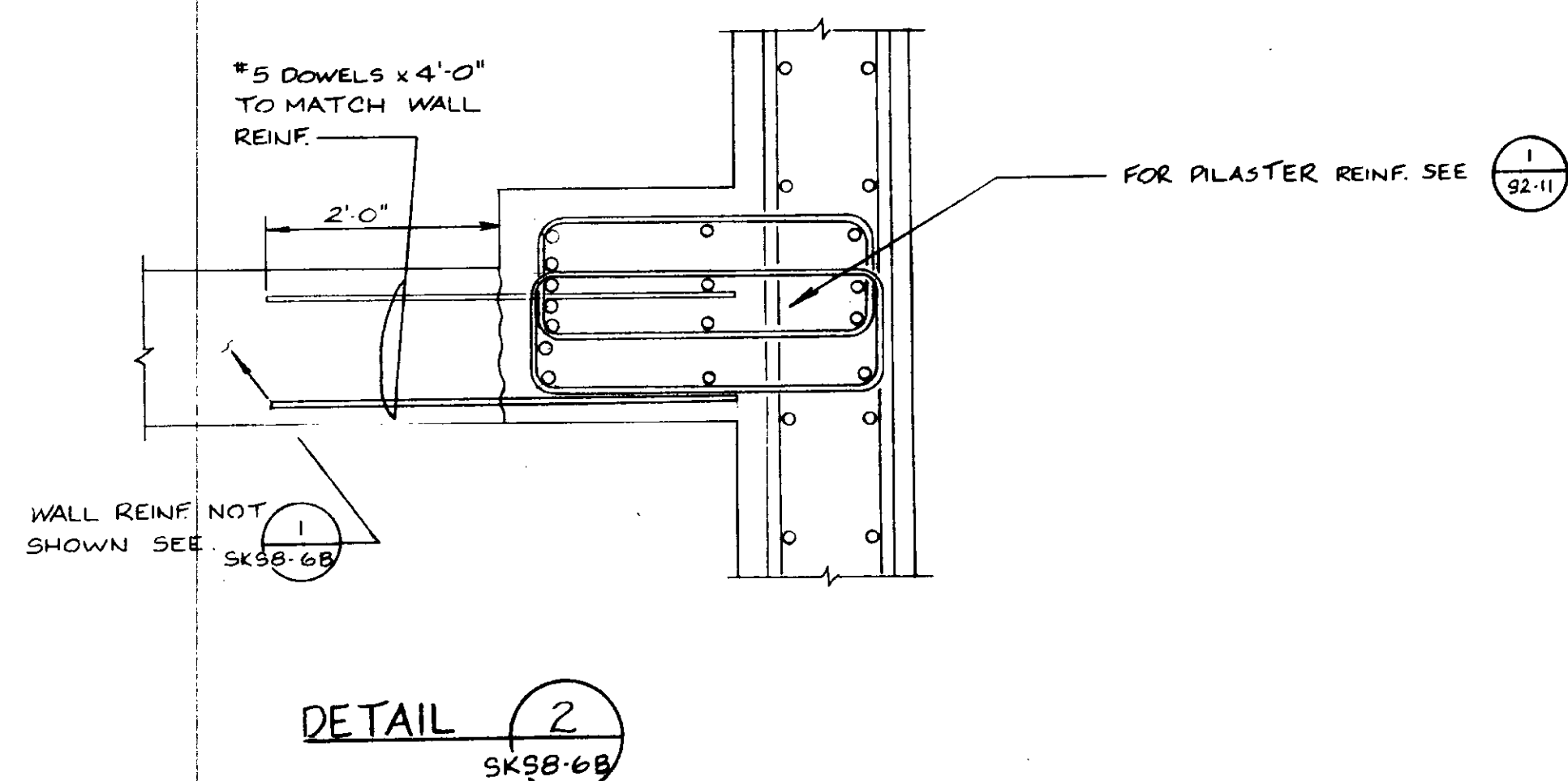
REFERENCE: SKSB-6A
PLAN CHANGE: PCH-C5-12

PCH-C5-12

Y. KATSURA CONSULTING ENGINEERS SANTA PAULA, CALIFORNIA	DATE: 10-28-80 BY R. LEE	JUNCTION CHAMBER NO. 3 PLANS & SECTIONS	SHEET S8-6A 5 BR. 14 OR 19
---	-----------------------------	--	---



SECTION 1
SCALE: 1/4" = 1'-0"
SKSB-6B



DETAIL 2
SKSB-6B

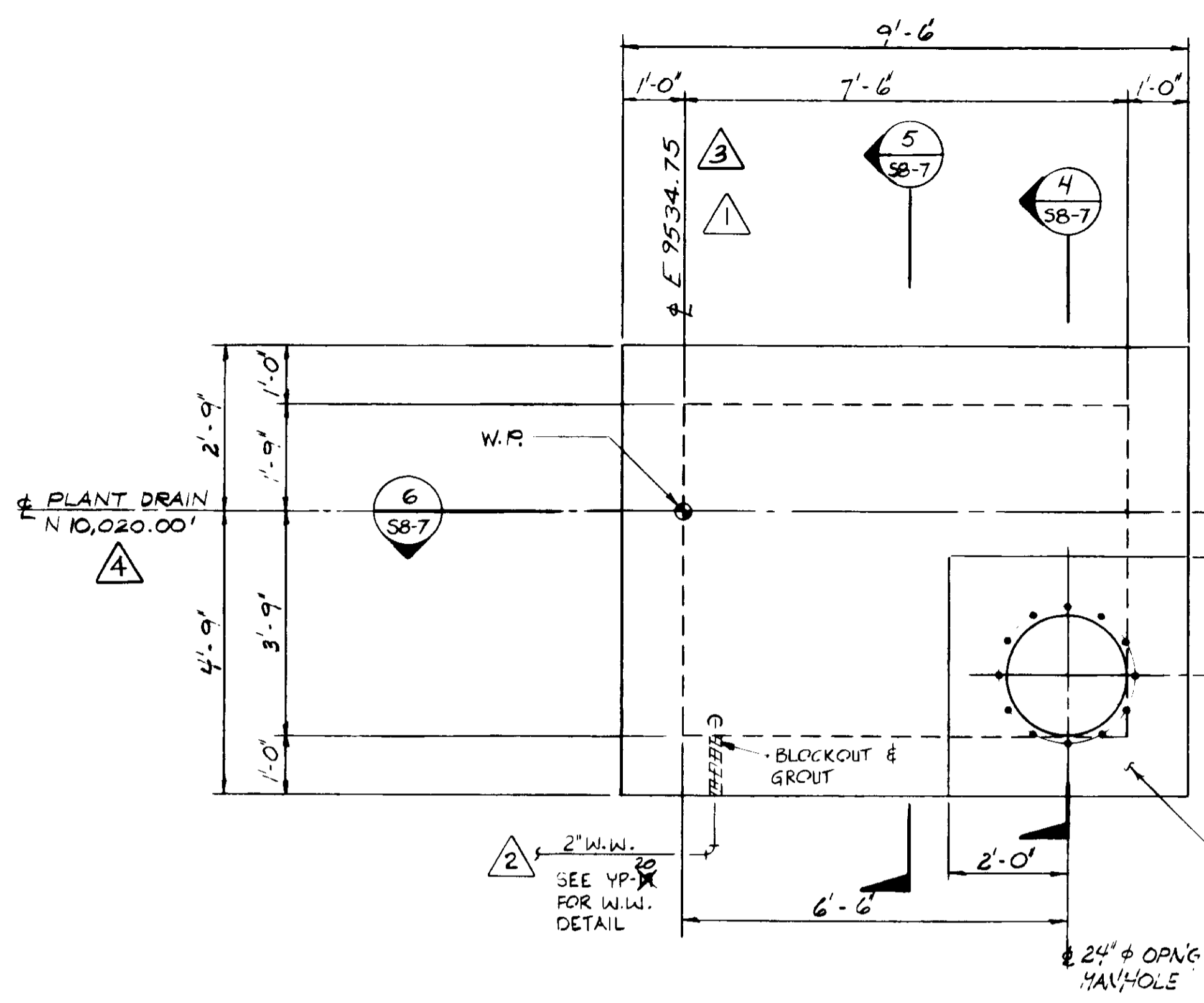
03127

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura RCE 14088
KATSURA CONSULTING ENGINEERS March 1985

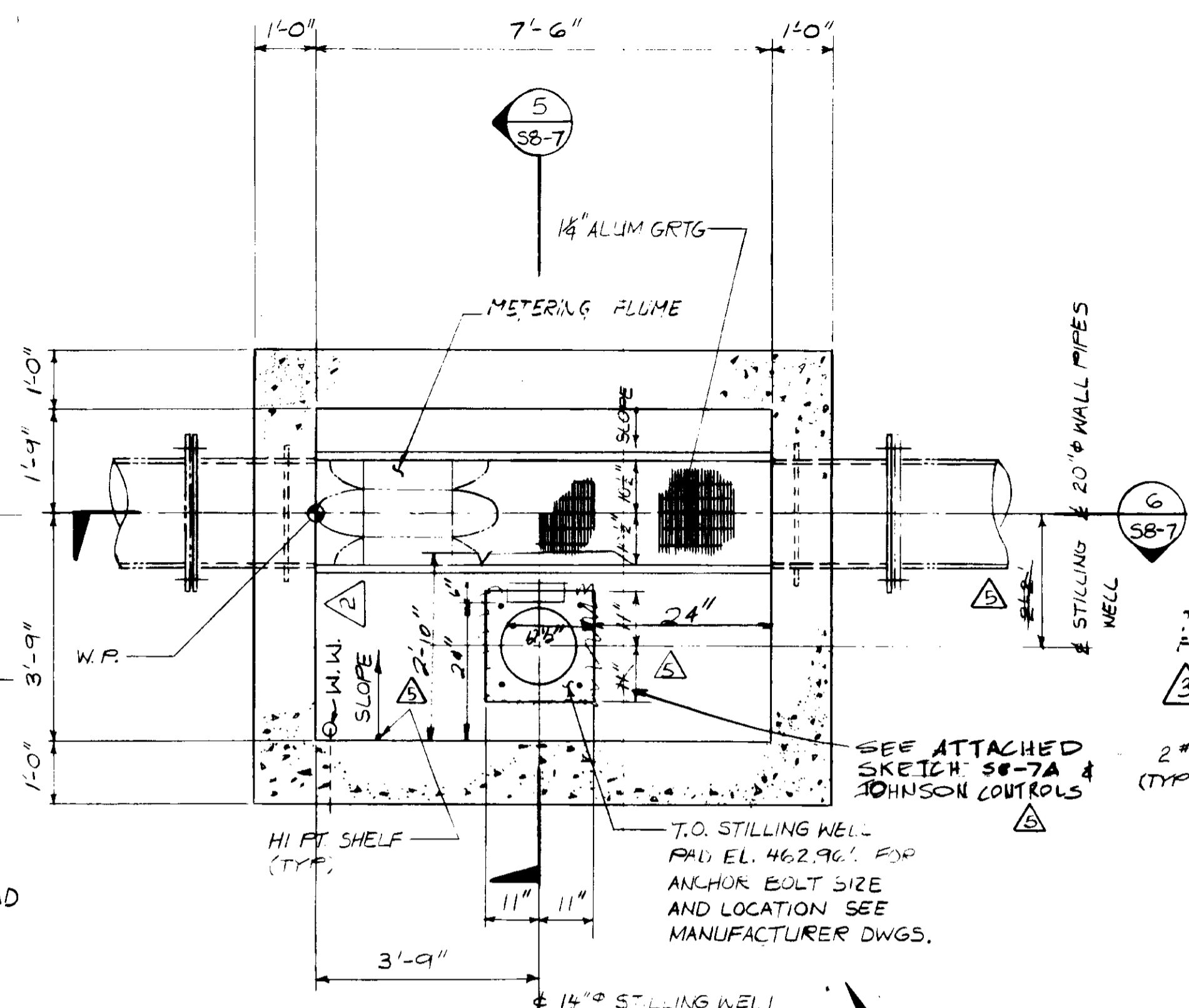
REFERENCE DNG. SKSB-6B
PLAN CHANGE: PCH-C5-12

PCH-C5-12

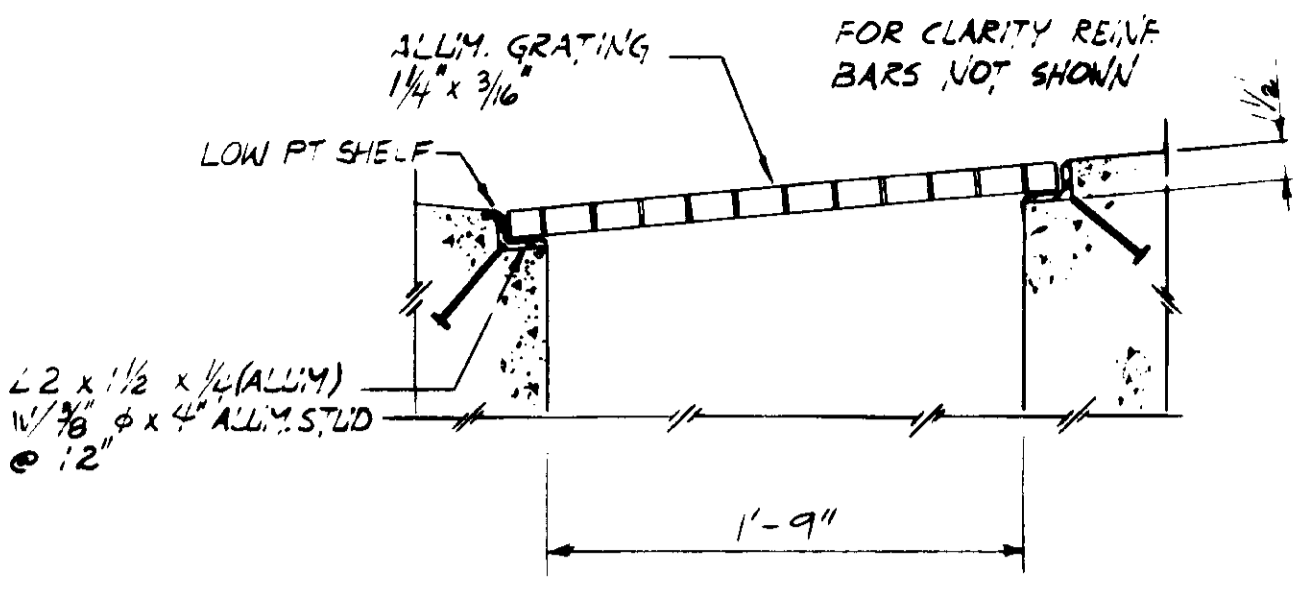
Y. KATSURA CONSULTING ENGINEERS SANTA PAULA, CALIFORNIA	DATE: 11/15/80 BY: R. LEE	JUNCTION CHAMBER NO. 3 SECTION & DETAILS	SHEET S8-6B 5/15 OF 19
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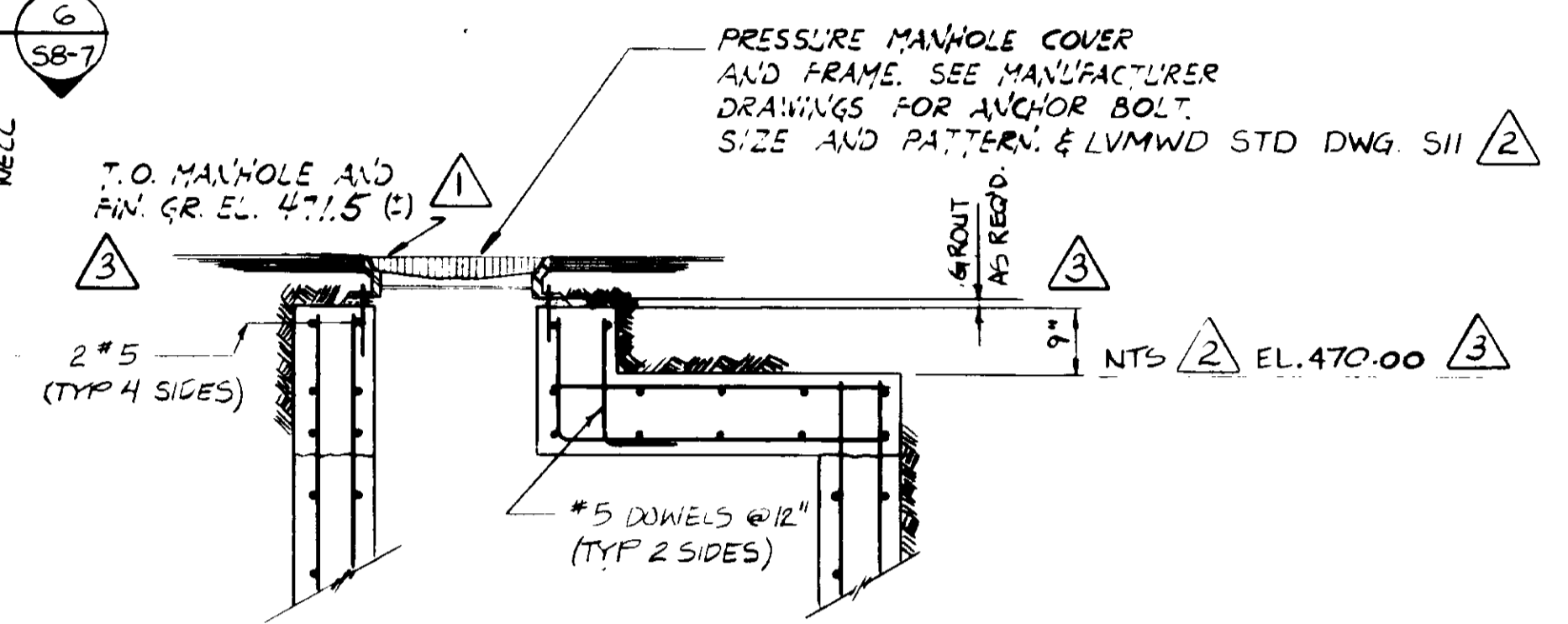
TOP PLAN 1 S8-7



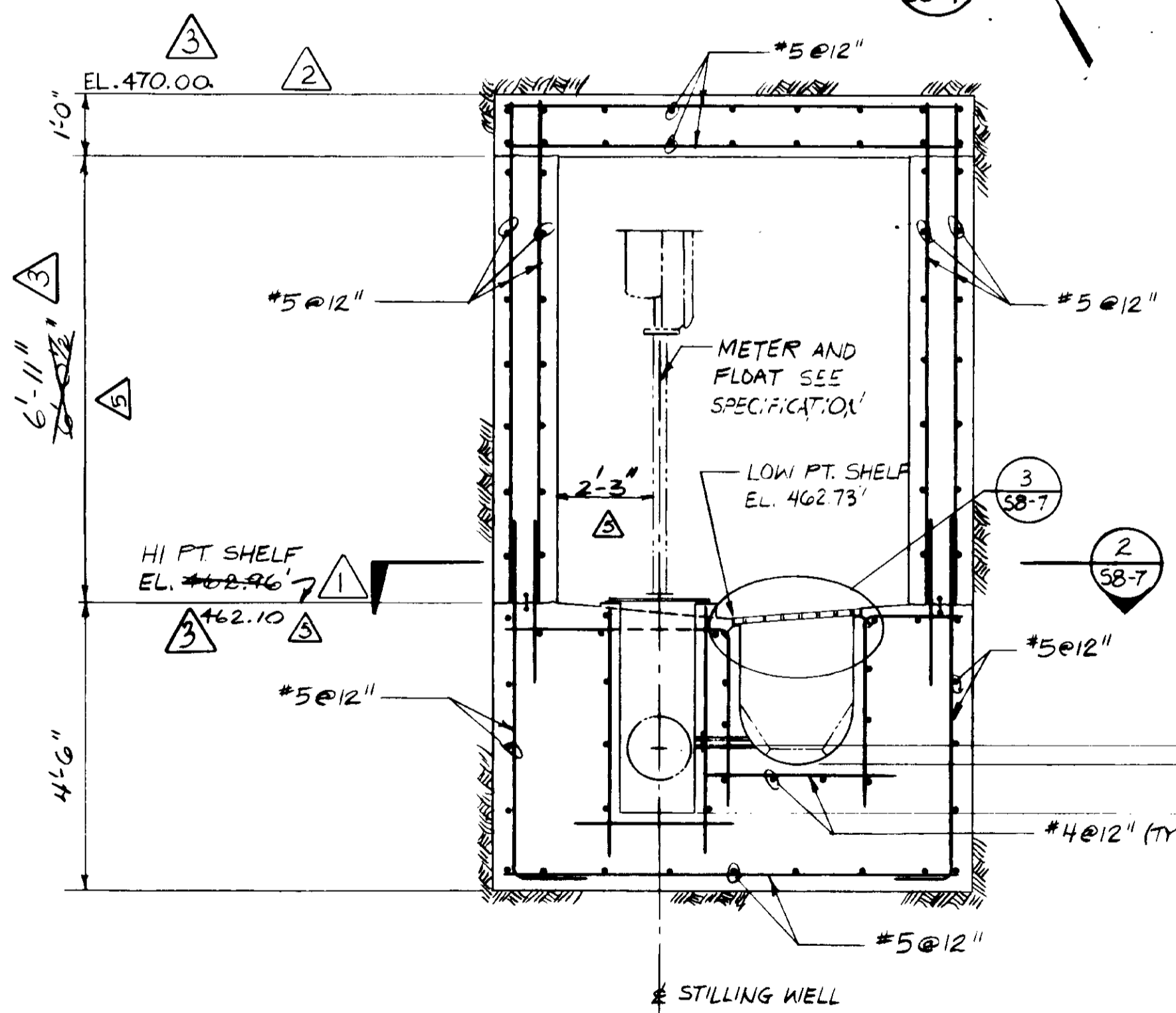
PLAN SECTION 2 S8-7



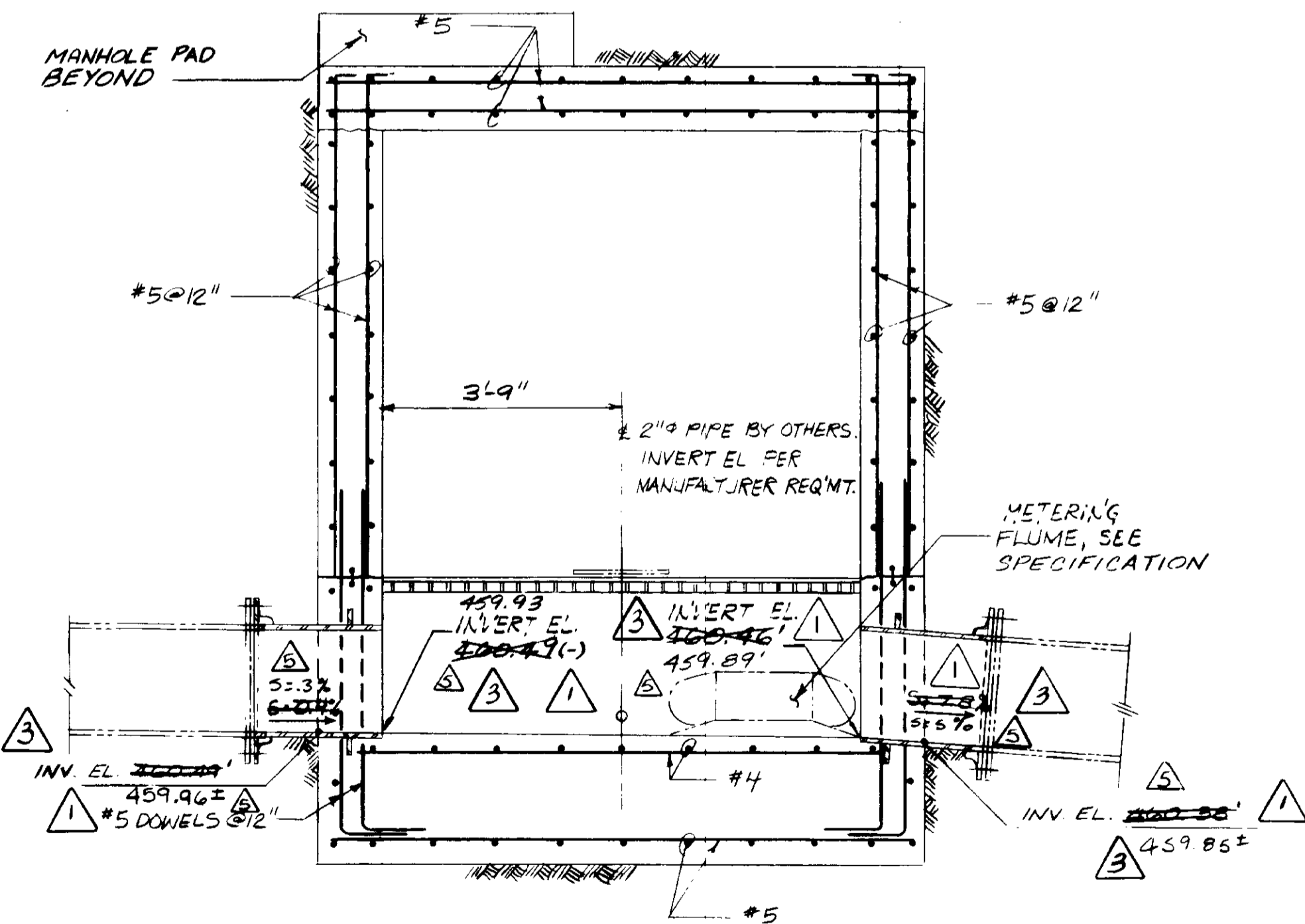
DETAIL 3 S8-7



SECTION 4 S8-7

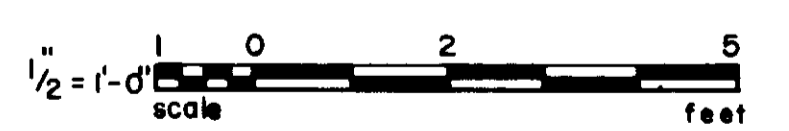
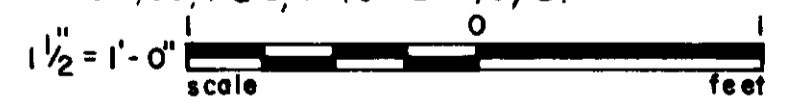


SECTION 5 S8-7



SECTION 6 S8-7

NOTES
 1. FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS SEE SERIES S1 DRAWINGS.
 2. PROVIDE 4" WATERSTOPS AT ALL HORIZ. CONSTRUCTION JOINTS.



GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura
 KATSURA CONSULTING ENGINEERS RCE 14038
 March 1988

03128

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
1	11/20/80	Y.K.	CLARIFICATION	1	11/20/80	Y.K.	CLARIFICATION
2	12/20/80	Y.K.	COASTAL COMMISSION REV. PART 1	2	12/20/80	Y.K.	COASTAL COMMISSION REV. PART 1
3	12/20/80	Y.K.	RED. 48" TO 36"; MISC. ADD.	3	12/20/80	Y.K.	RED. 48" TO 36"; MISC. ADD.
4	12/20/80	Y.K.	OAK TREE PRESERV. MOD.	4	12/20/80	Y.K.	OAK TREE PRESERV. MOD.

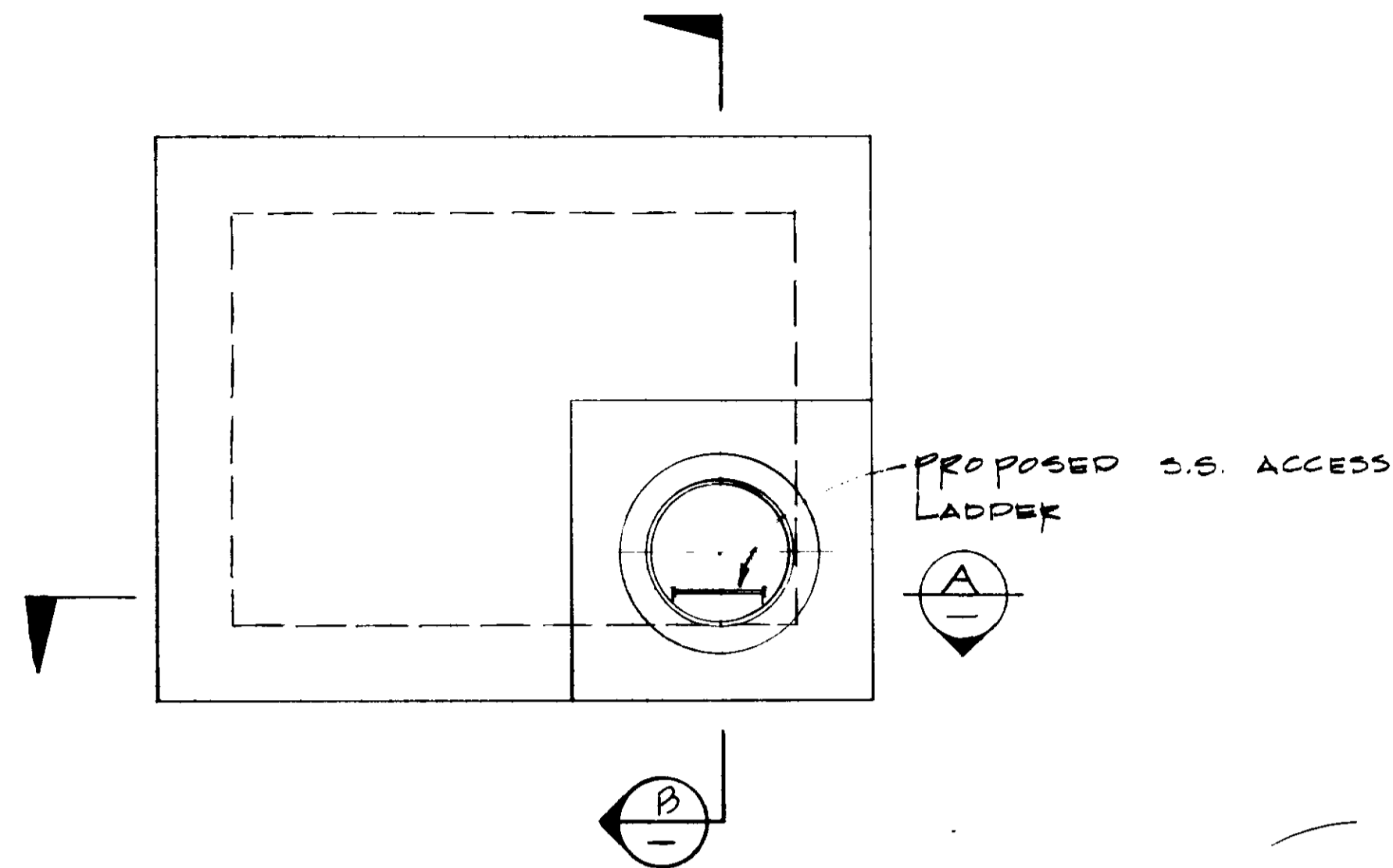
SCALE: NONE
 DESIGNED: K. HEALY
 DRAWN: K. RAHMANN
 CHECKED: K. RAHMANN

SUBMITTED: 14038 8/15/79
 PROJECT MANAGER: R.C.E. NO. DATE
 PROJECT ADMINISTRATOR: 14894 8/15/79
 R.C.E. NO. DATE

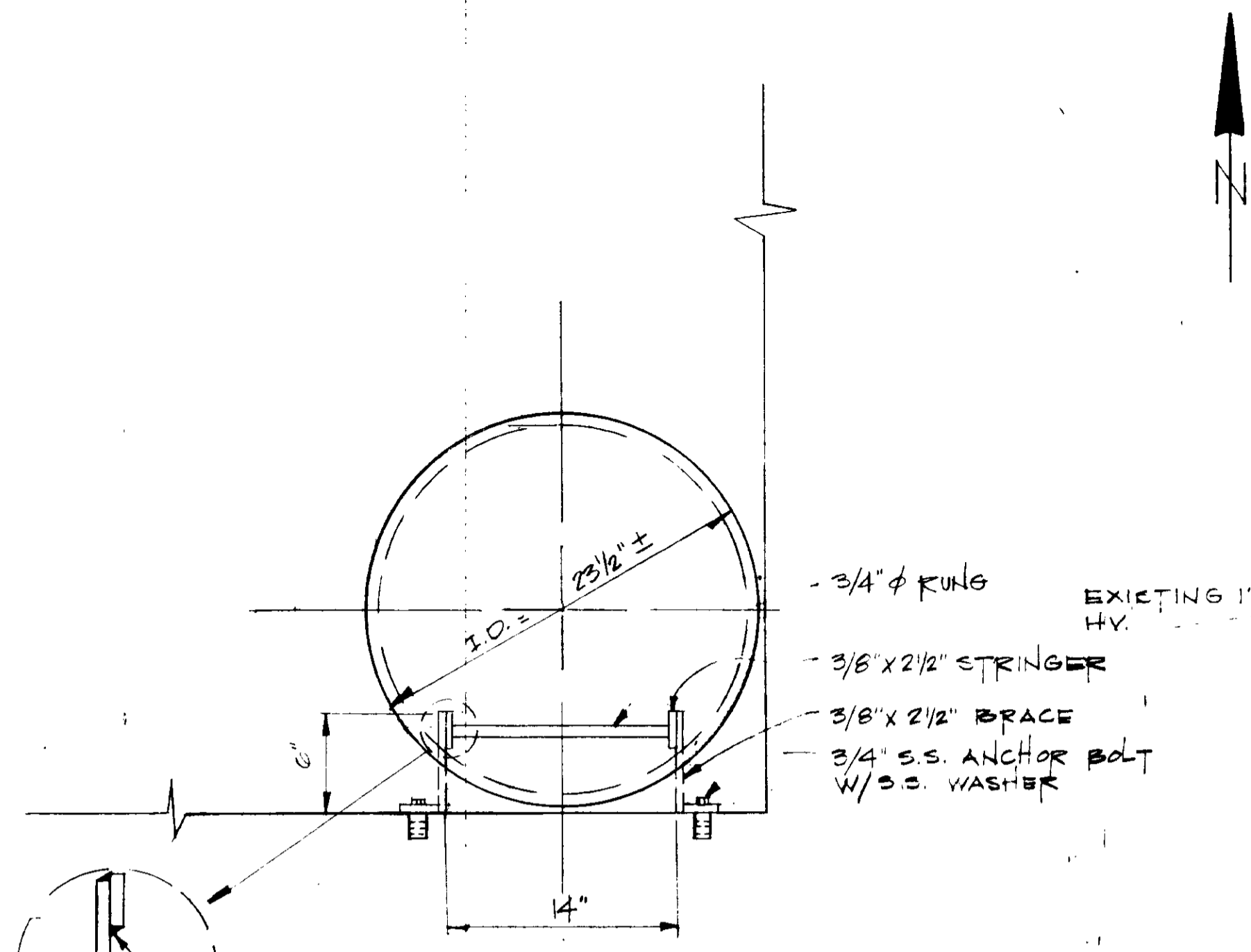
JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 MISCELLANEOUS STRUCTURES
 METERING VAULT

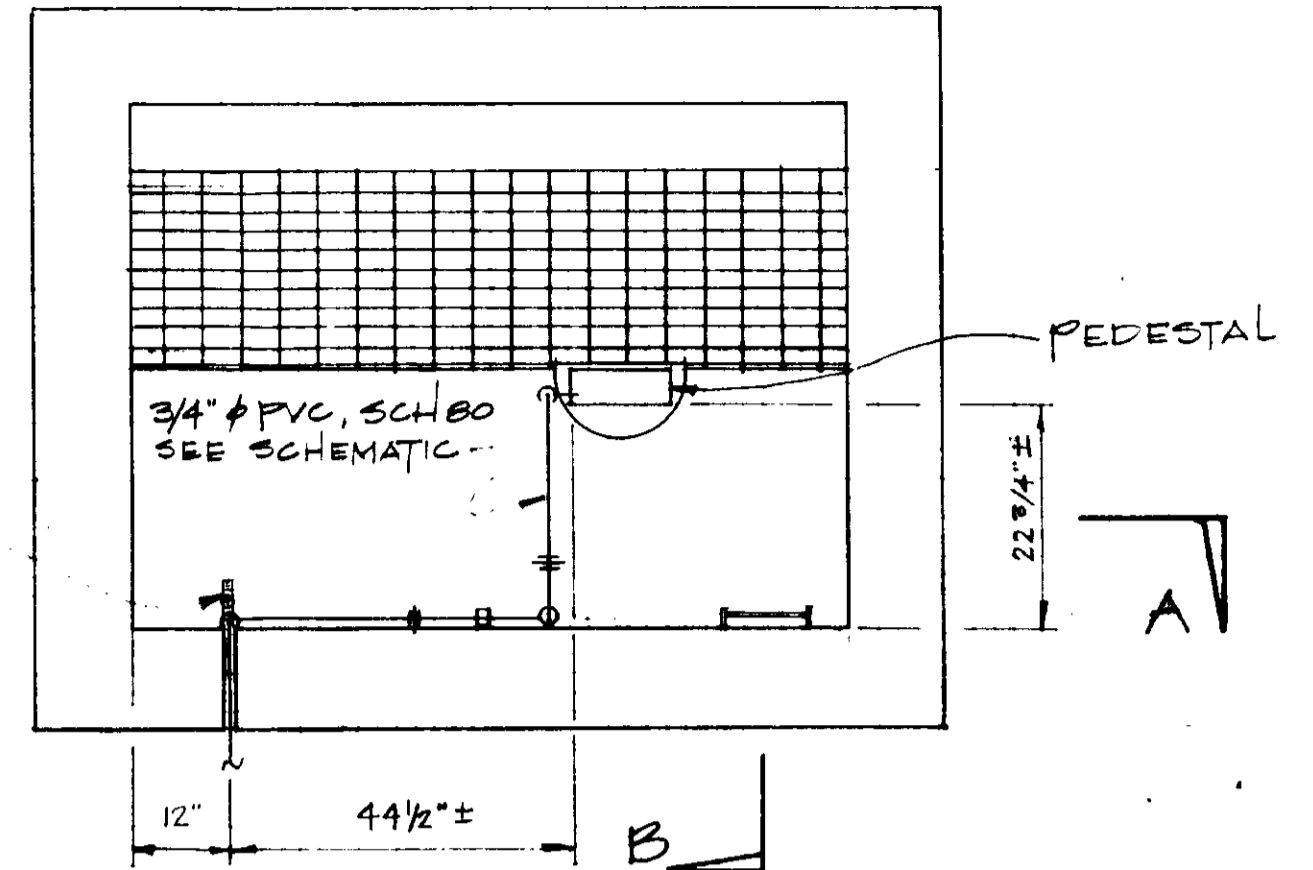
SHEET
 S8-7



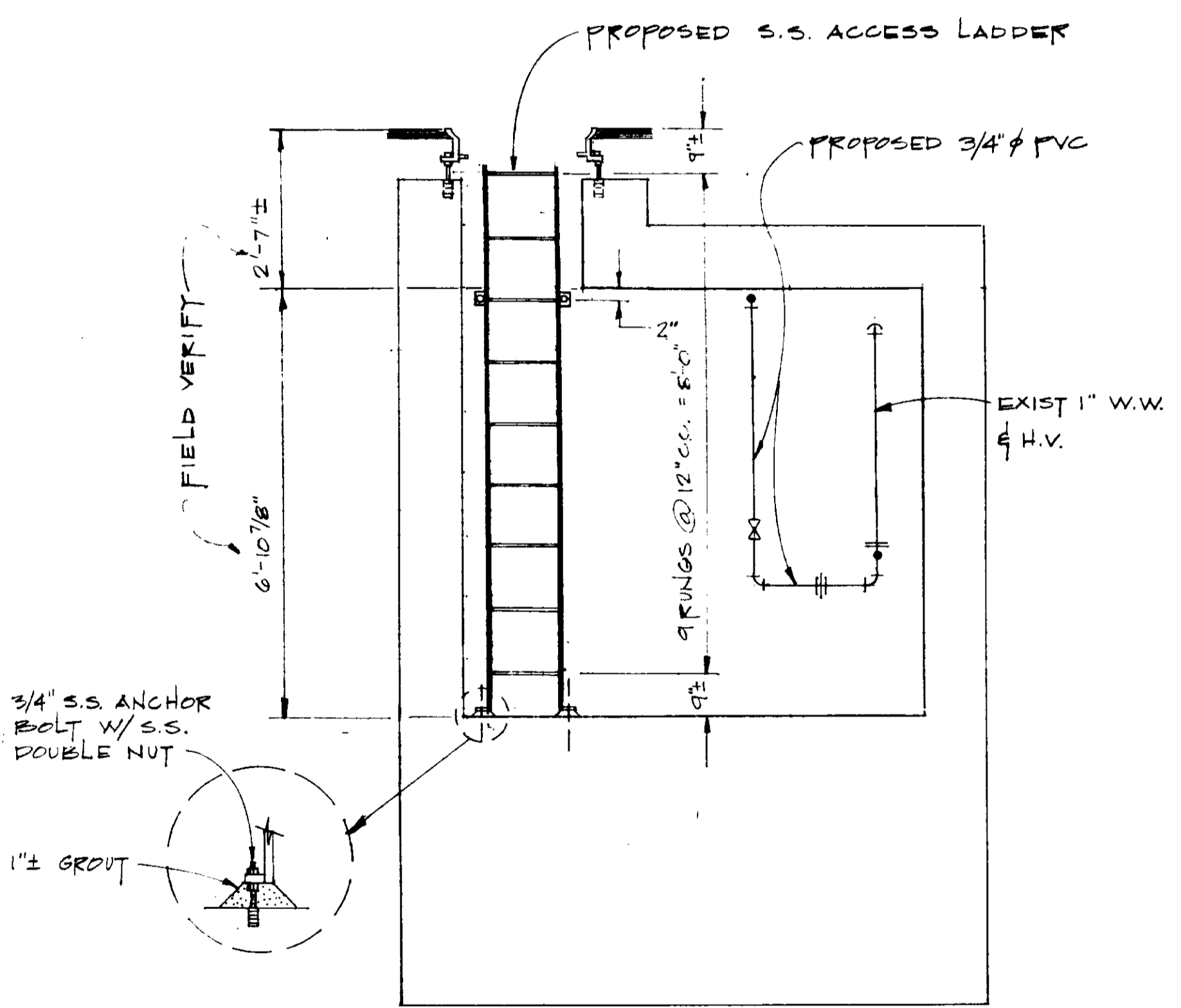
PLAN VIEW
SCALE: 1/2" = 1'-0"



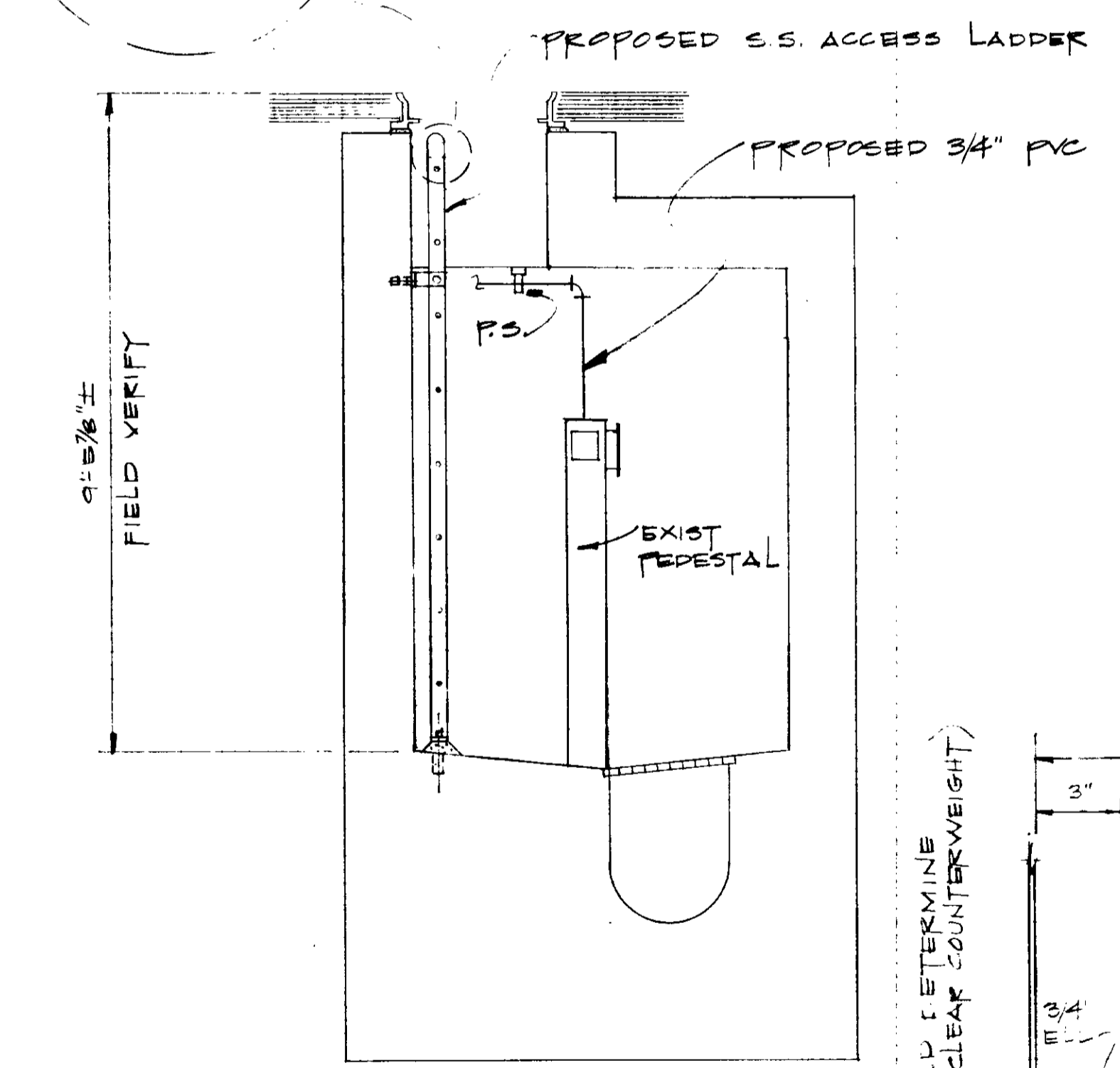
LADDER DETAIL
NTS



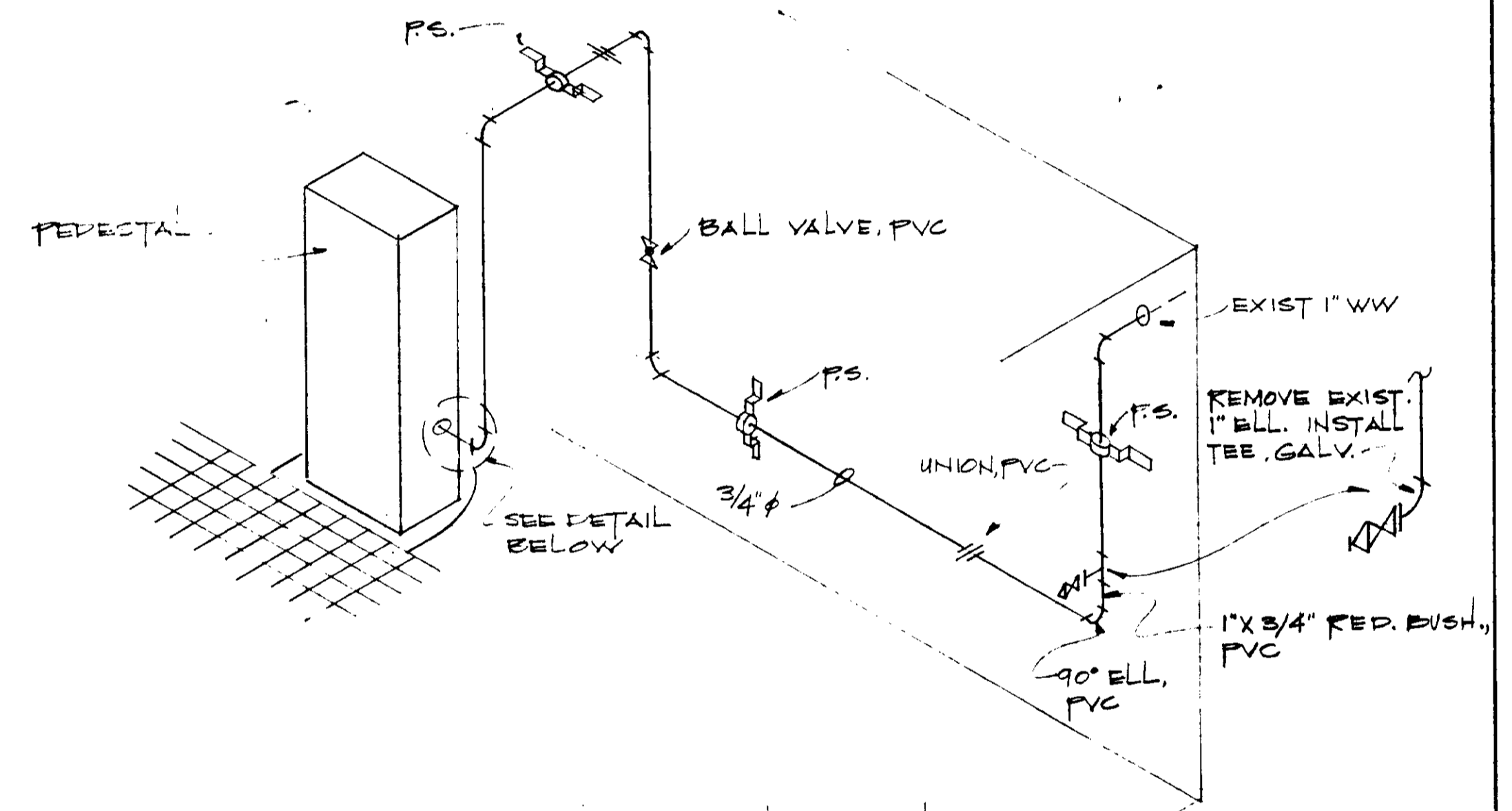
PLAN SECTION
SCALE: NTS



SECTION A-A
SCALE: NTS

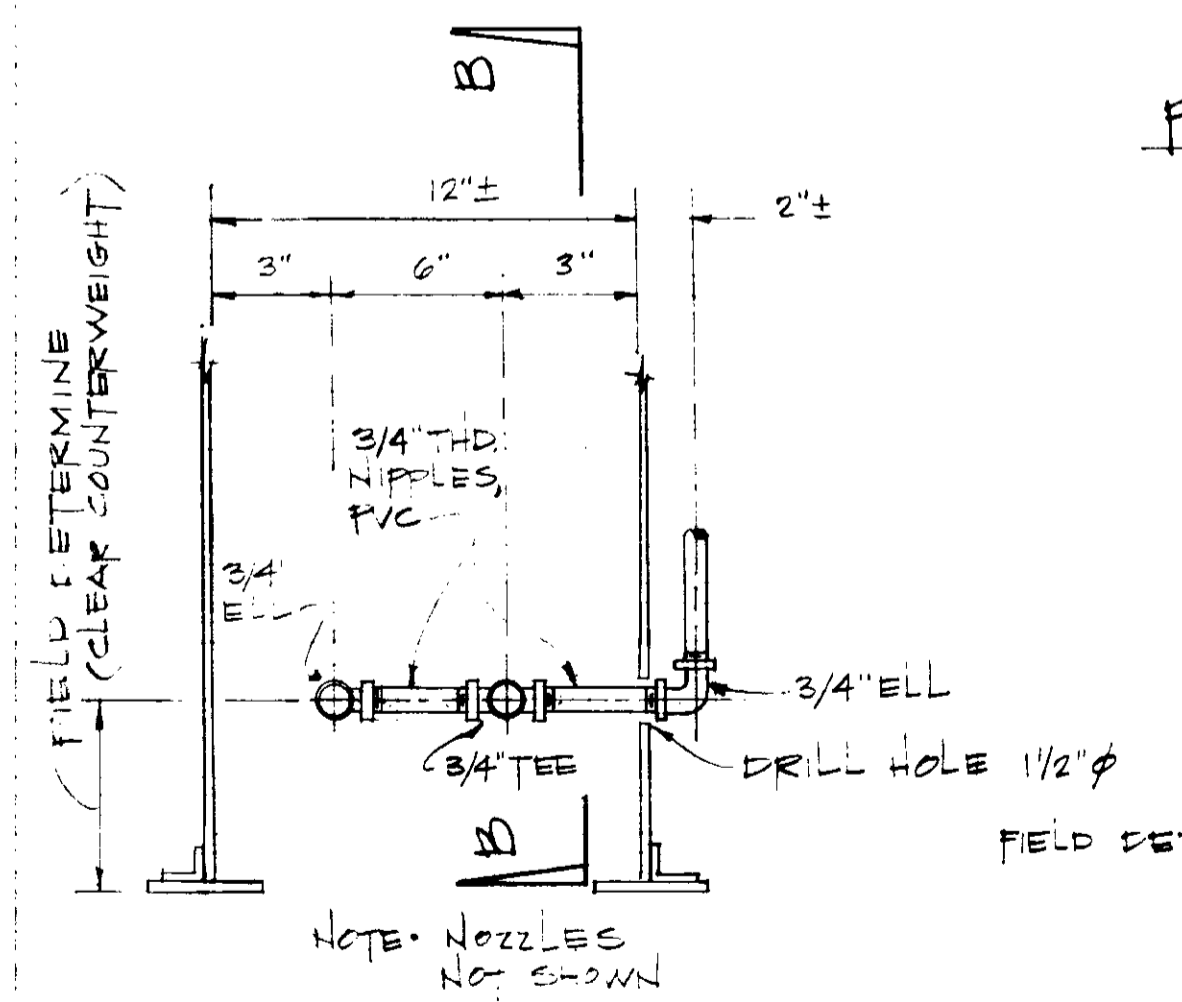


SECTION B-B
SCALE: NTS

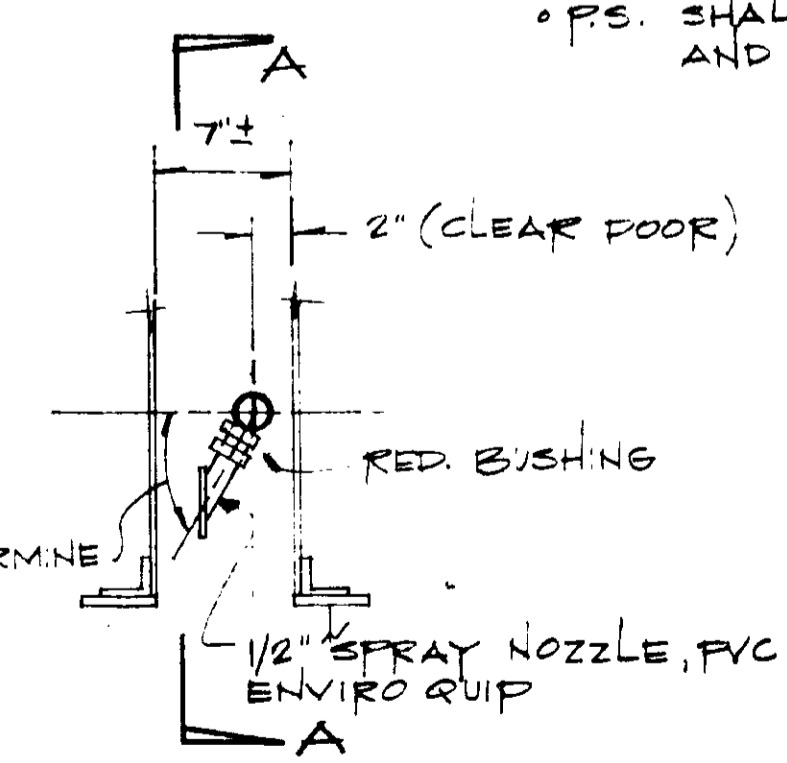


PURGE WATER PIPING SCHEMATIC

NOTES: ALL PVC SHALL BE SCH 80
PS. SHALL BE GALV W/ GALV BOLTS AND ANCHOR BOLTS



SECTION A-A
NTS



SECTION B-B
NTS

SEE S8-9

03129

REFERENCE DWG. SKS8-7A
EXTRA WORK: EW-C5-114

EW - C5 - 114,

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
[Signature]
RCE 14038
KATSURA CONSULTING ENGINEERS March 1985

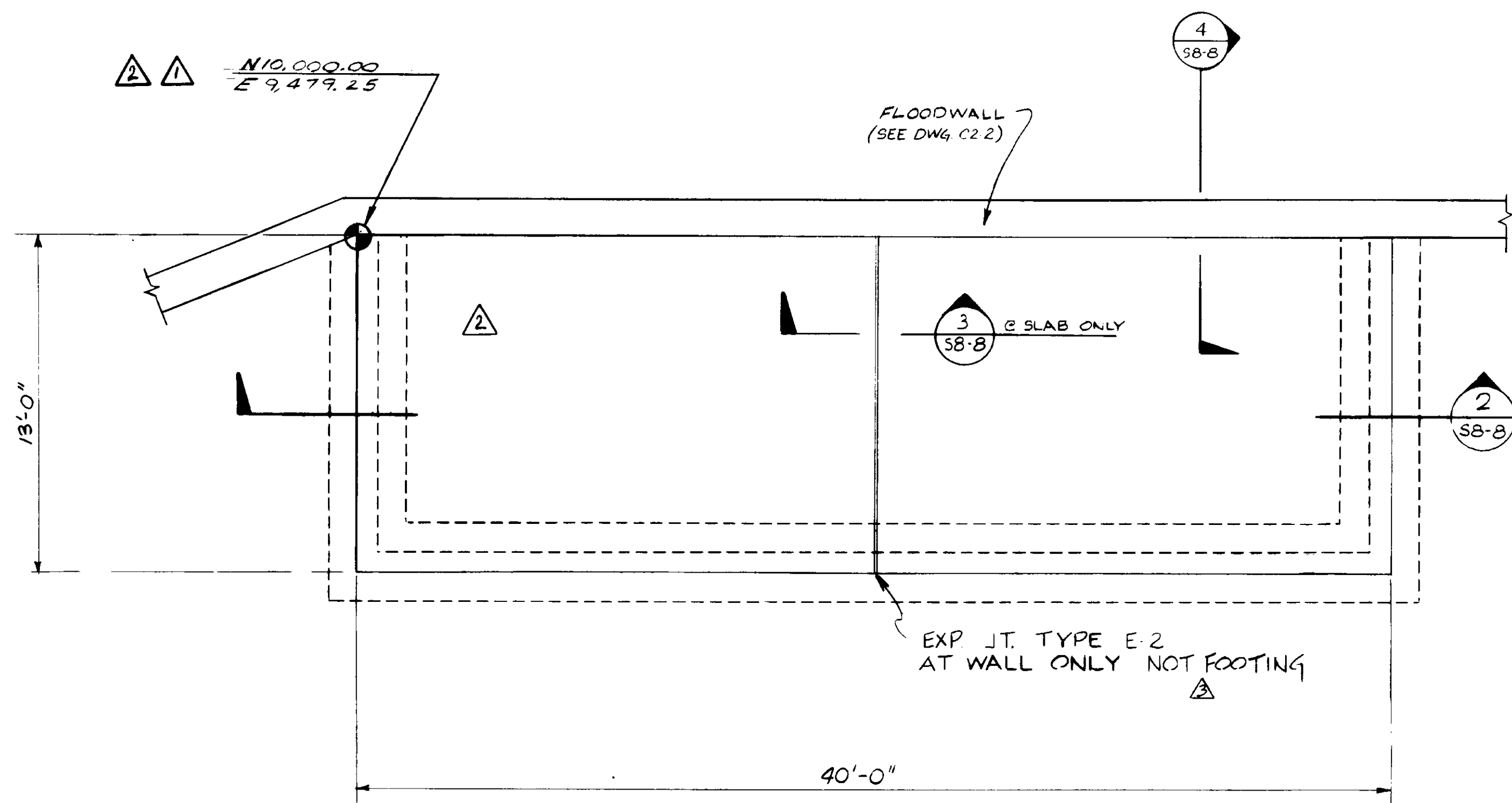
BY: YK/CL/LW
DATE: 3/23/83

KATSURA
CONSULTING ENGINEERS

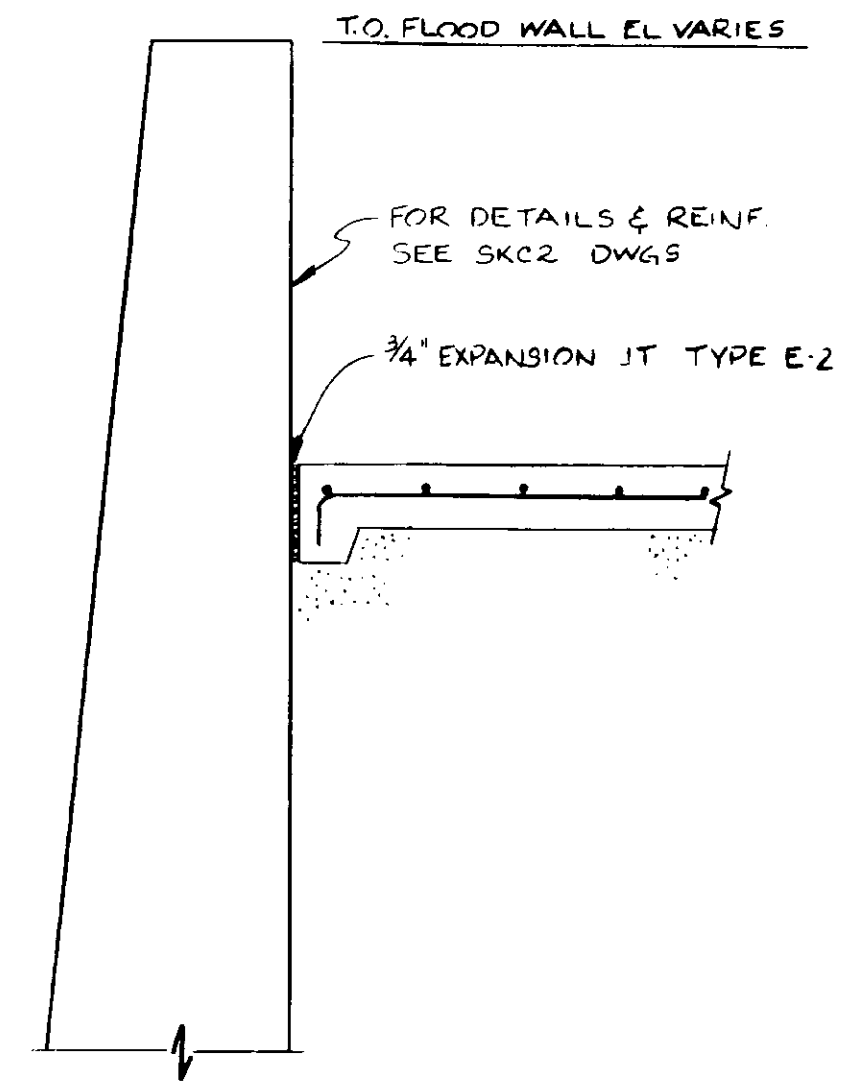
METERING VAULT ADDITIONS

SHEET
S8-7A

SWT 17 02/83



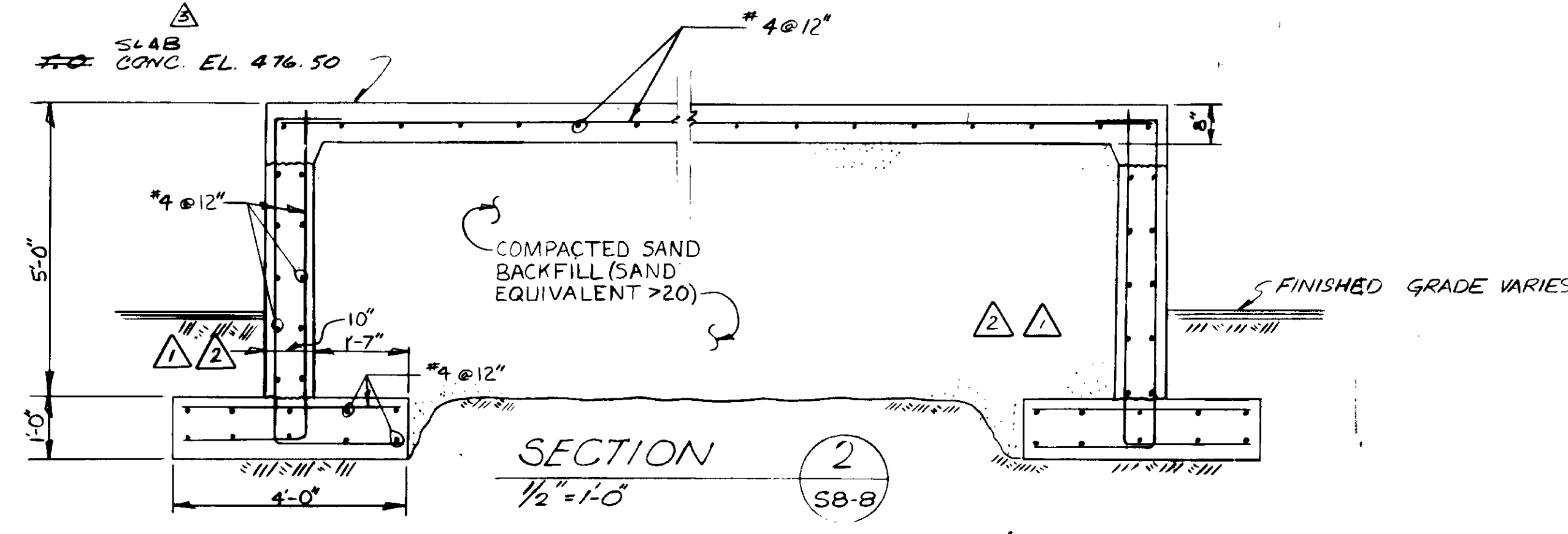
PLAN
1/4" = 1'-0"
ELECTRICAL SUBSTATION PAD



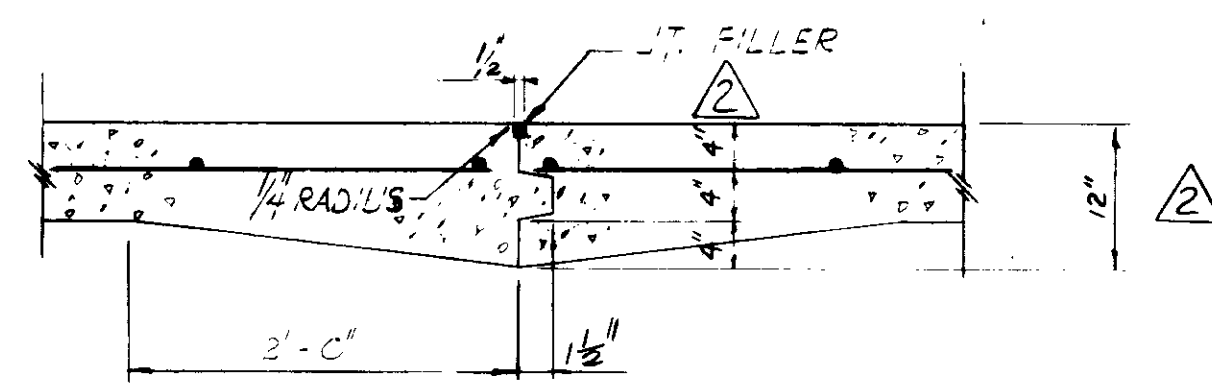
SECTION
1/2" = 1'-0"
4
S8-8

NOTES

1. FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS, SEE SERIES S1 DRAWINGS.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATION AND DETAILS OF GROUNDING RODS, CONDUITS AND MISCELLANEOUS EMBEDS.
3. BEFORE PLACING CONCRETE, CONTRACTOR SHALL CONSULT WITH SOUTHERN CALIFORNIA EDISON CO. AND/OR ELECTRICAL CONTRACTOR FOR FINAL PAD DIMENSIONS.



SECTION
1/2" = 1'-0"
2
S8-8



DETAIL
N.T.S.
3
S8-8

03130

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
V. K. Yeh RCE 14038
KATSURA CONSULTING ENGINEERS March 1986

1/2" = 1'-0" scale
1 0 1 2 3 4 feet

1/4" = 1'-0" scale
2 0 2 4 6 8 10 feet

GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

REV	DATE	BY	DESCRIPTION
1	12/27/79	Y.K.	OAK TREE PRESERV. MOD.
2	12/27/79	Y.K.	COASTAL COMMISSION REV. PART 1
3	12/27/79	Y.K.	REV PER MZA & ICE

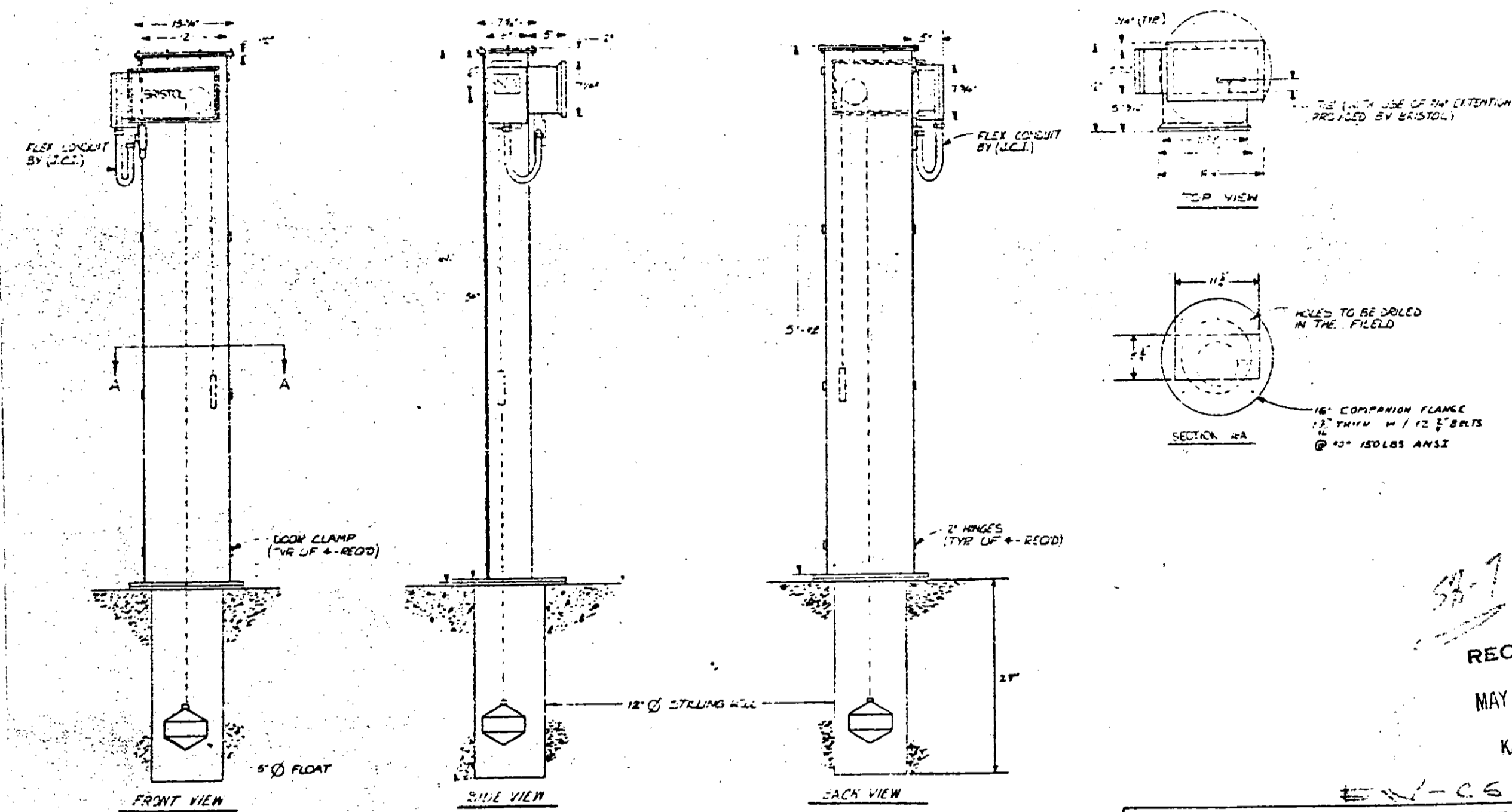
SCALE:	AS NOTED	DESIGNED:	R. LES	SUBMITTED:	14038	8/15/79
		DRAWN:	K. RAHIMIAN	PROJECT MANAGER:	R.C.E. NO.	DATE
		CHECKED:		PROJECT ADMINISTRATOR:	14894	8/15/79
					R.C.E. NO.	DATE

JKS CONSULTING ENGINEERS
A JOINT VENTURE
5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
MISCELLANEOUS STRUCTURES
ELECTRICAL SUBSTATION PAD

SHEET
S8-8

SMY. 18 OF 19



RECEIVED
MAY 06 1981
KATSURA

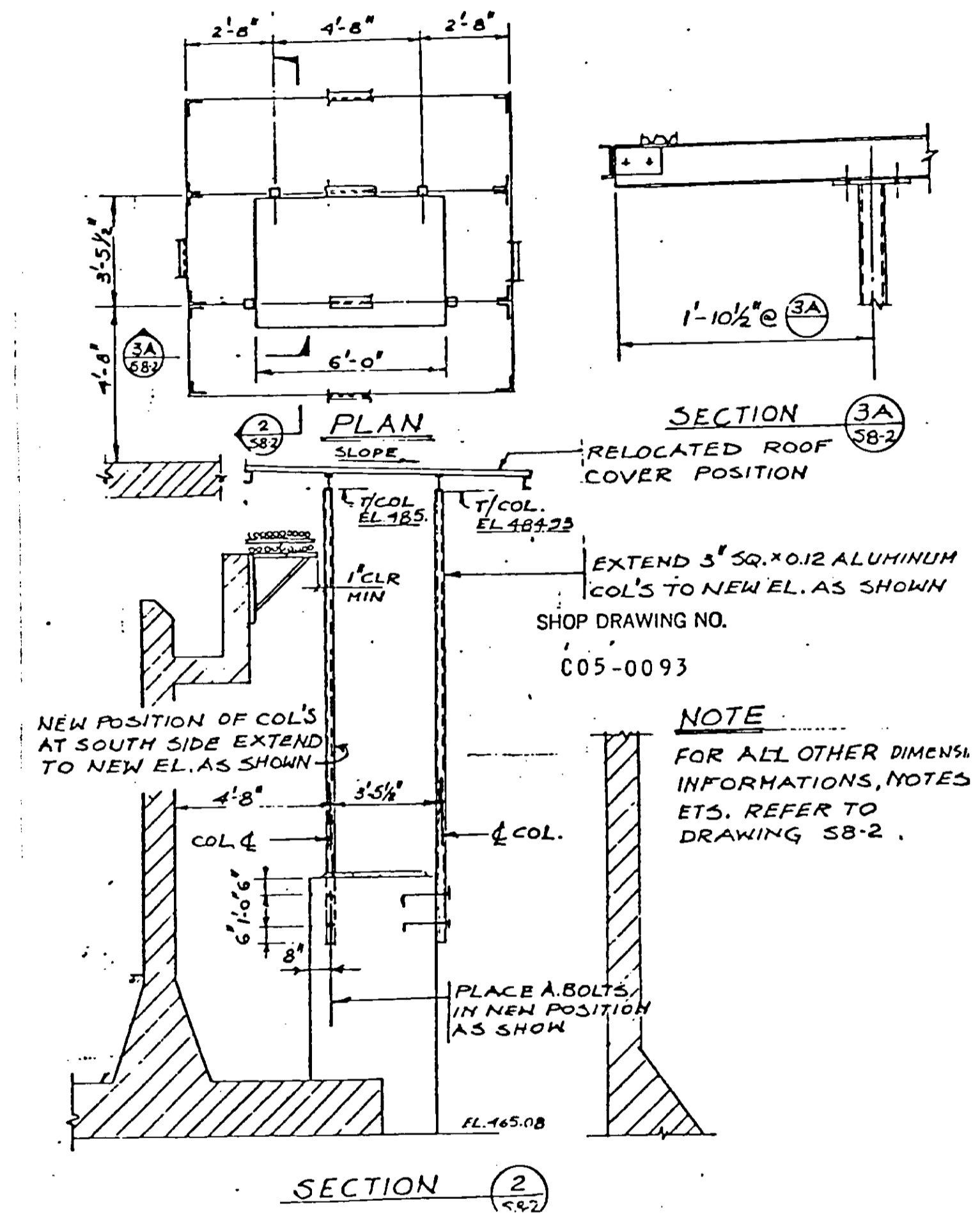
EW-05-11

TAPIA WATER RECLAMATION FACILITY

JOHNSON CONTROLS
JOHNSON CONTROLS, INC.
SYSTEMS ENGINEER - CONSTRUCTION DIV.

REV	DATE	REVISION	BY	DATE	TITLE
1	3-29-81		MCKISSICK		FIELD PLAN FOR WEATHER COVER OF NEW FLOAT NEUTRAL MOUNTING AND ARRANGEMENT DIAGRAM
2	5-1-81		W. K.		
3	5-30-81		W. K.		

CONTRACT NUMBER: D-125-0016-06-05
SHEET 1 OF 01



WEATHER COVER AT GALLERY NO. 5

EXTRA WORK : EW-CB-15

RECORD DRAWINGS

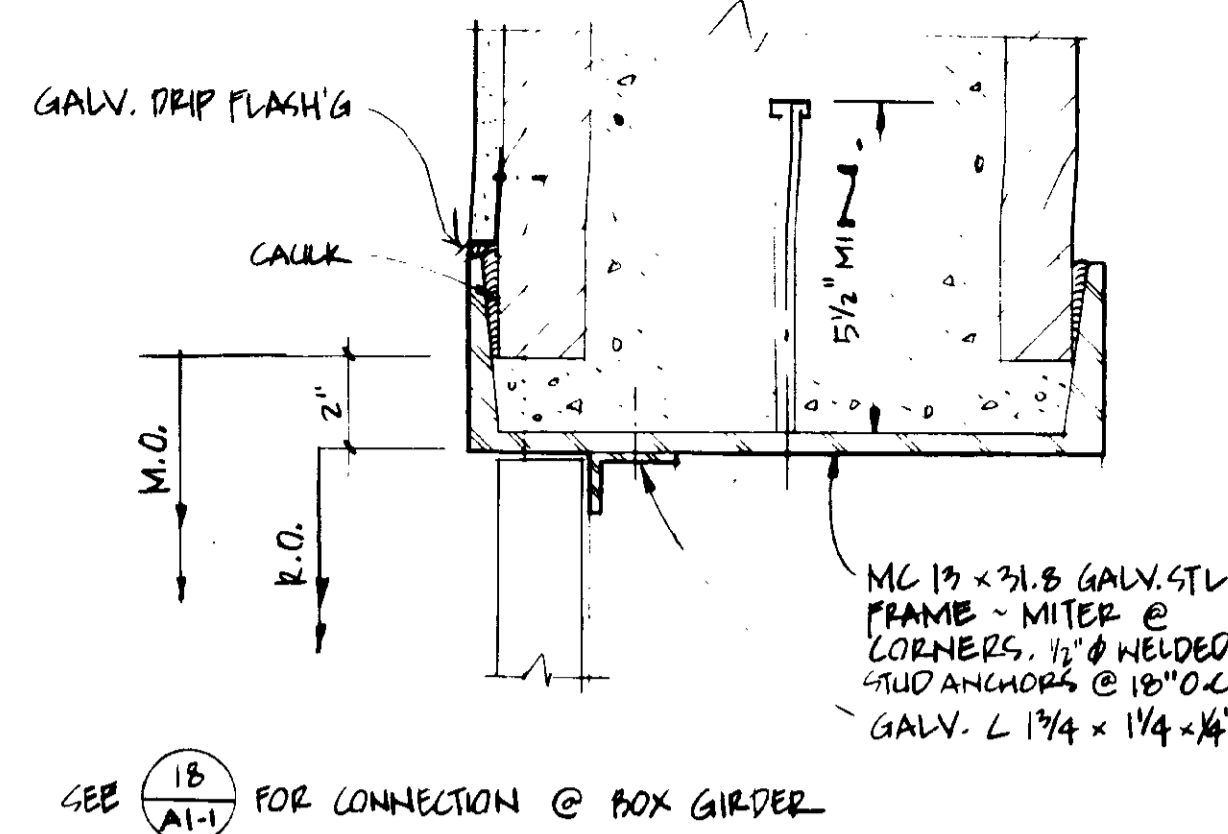
Per Field Information Provided By Morley-Ziebarth & Alper

Wm. Katsura
KATSURA CONSULTING ENGINEERS
RCE 14038
March 1985

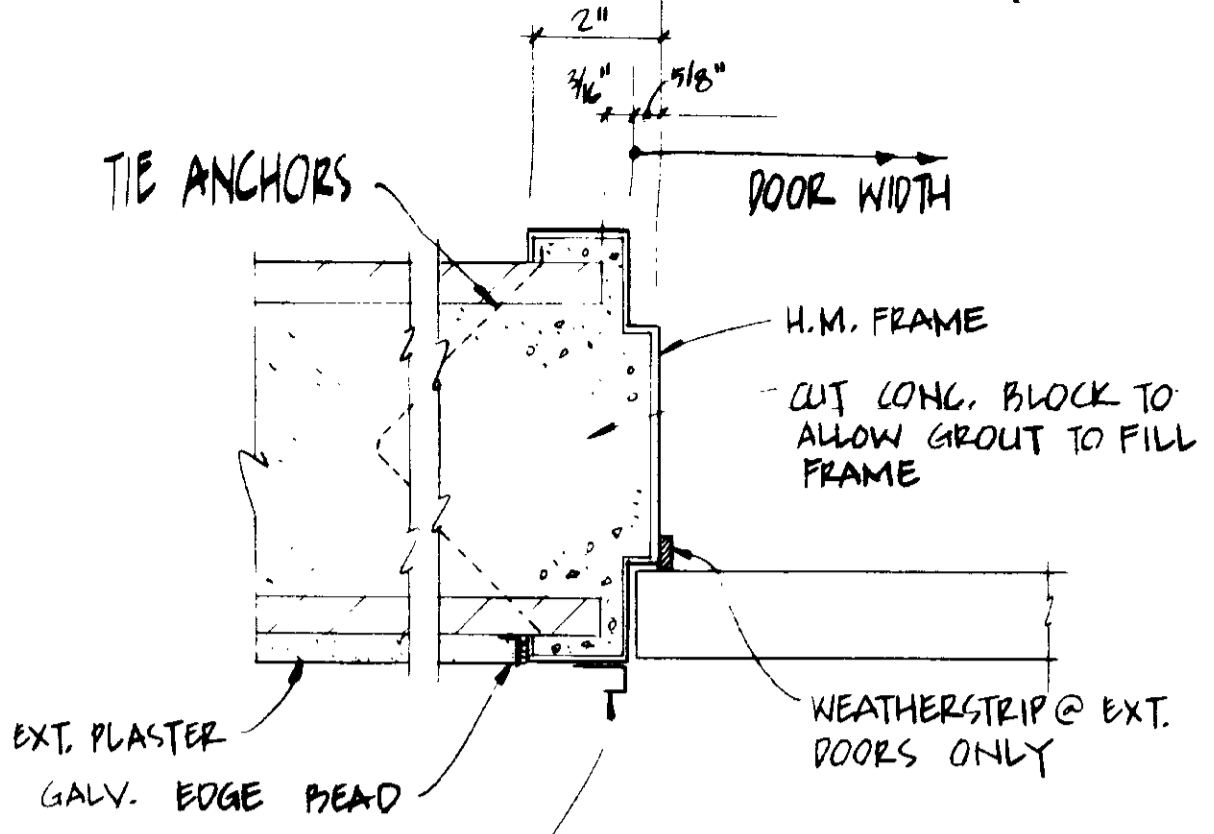
03131

WEATHER COVER AT GALLERY NO. 5

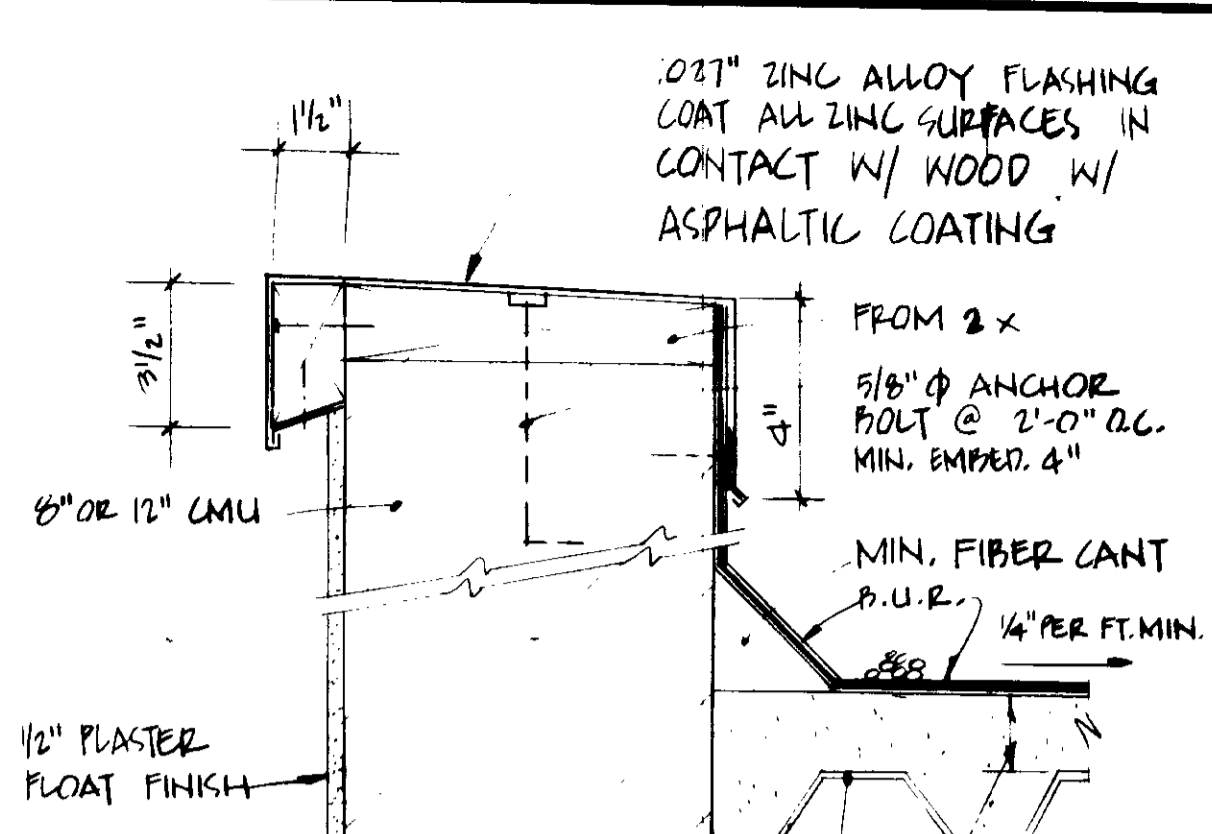
SHEET
S8-9



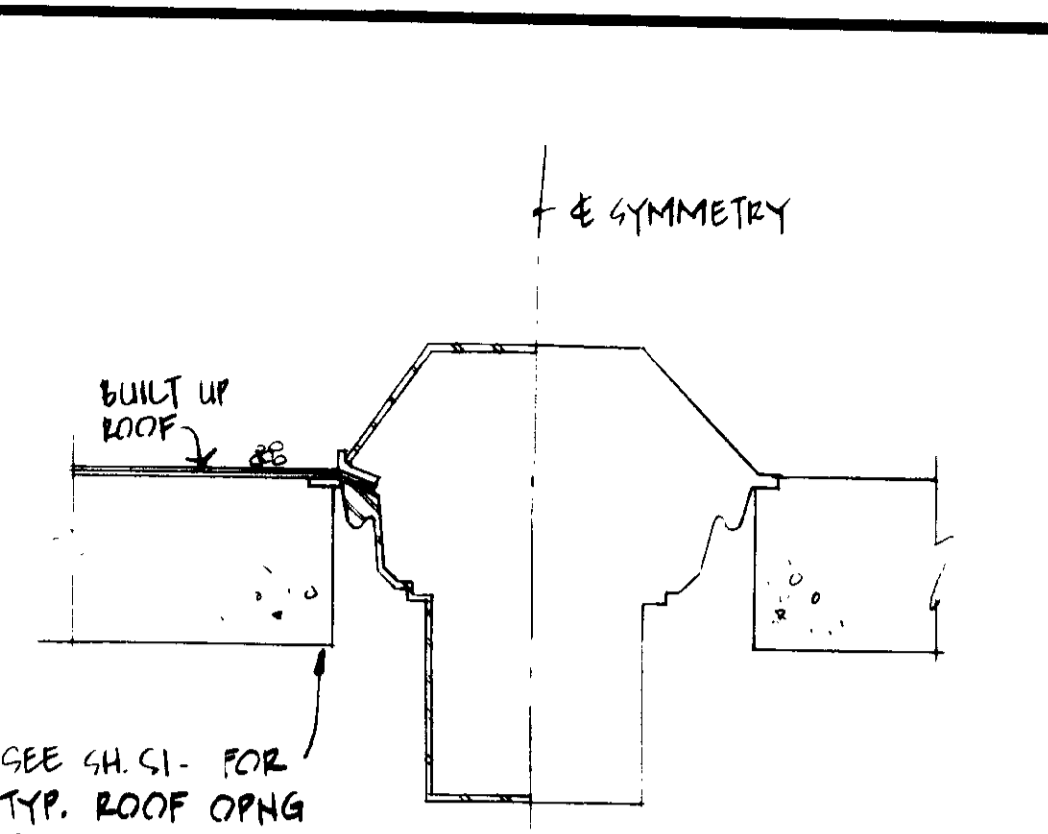
DETAIL
3" = 1'-0"
HEAD @ CRANE DOOR



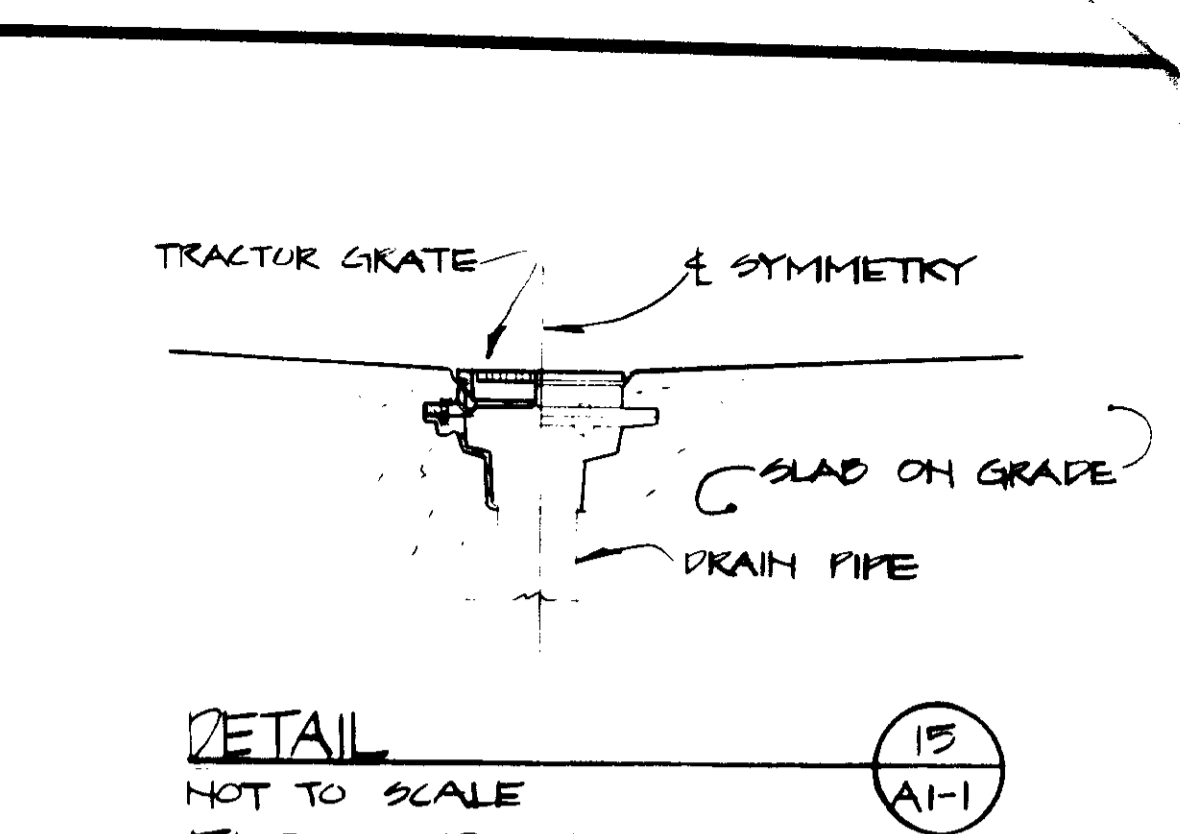
DETAIL
3" = 1'-0"
H.M. DOOR FRAME



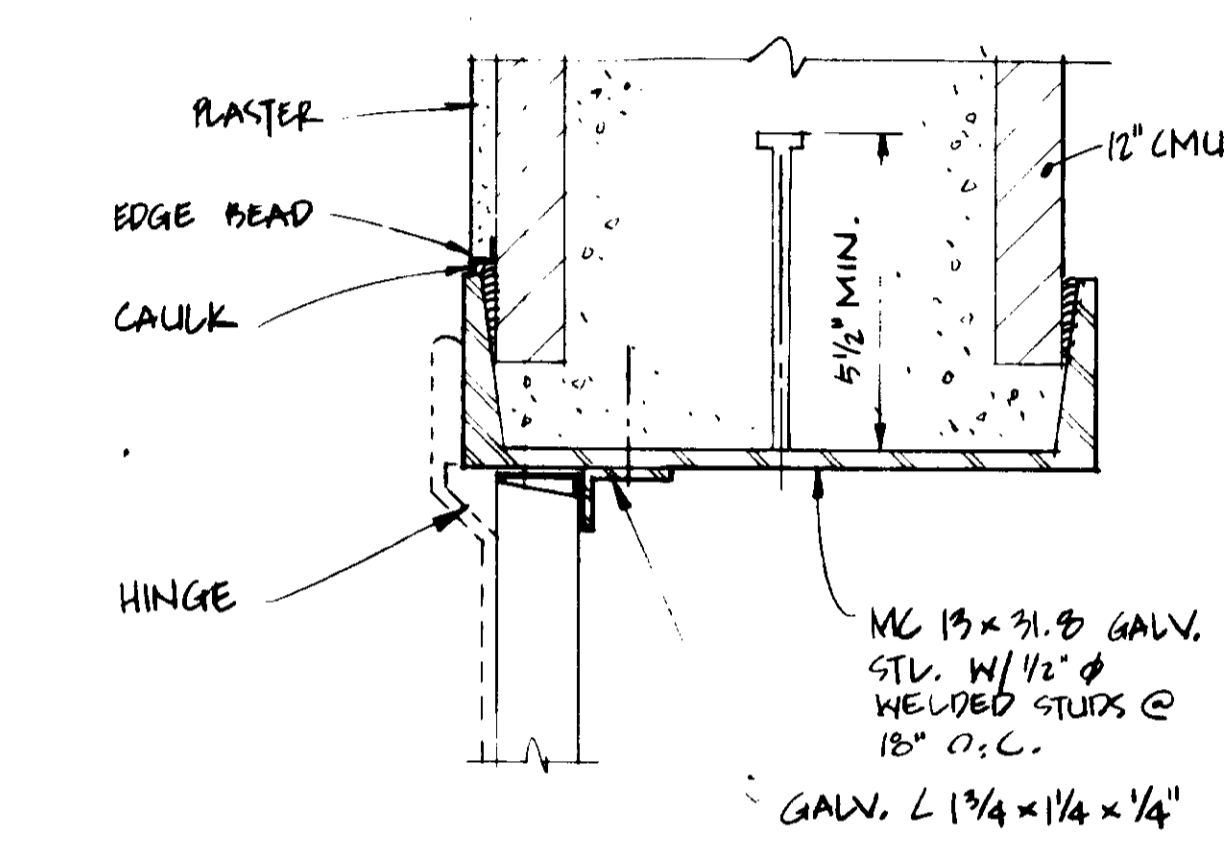
DETAIL
3" = 1'-0"
PARAPET & ROOF



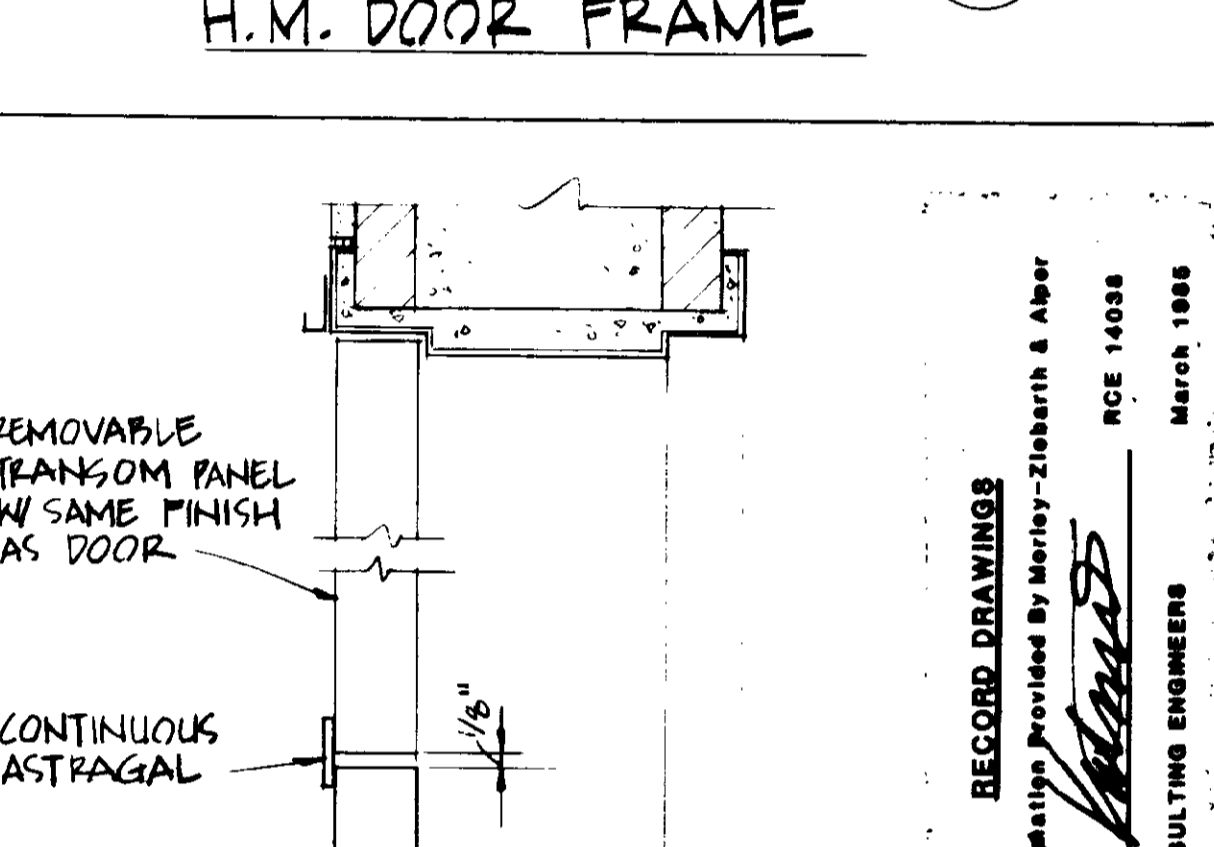
DETAIL
NOT TO SCALE
ROOF DRAIN



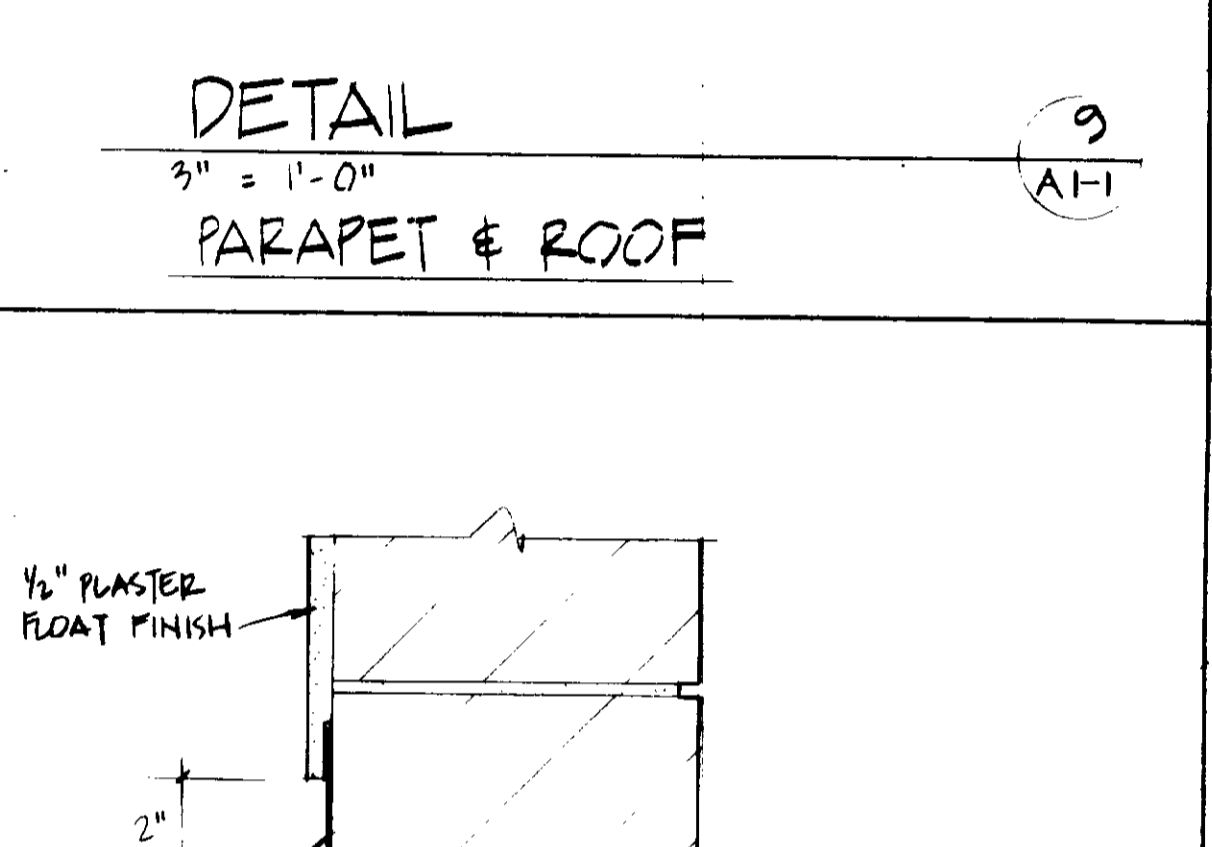
DETAIL
NOT TO SCALE
FLOOR DRAIN



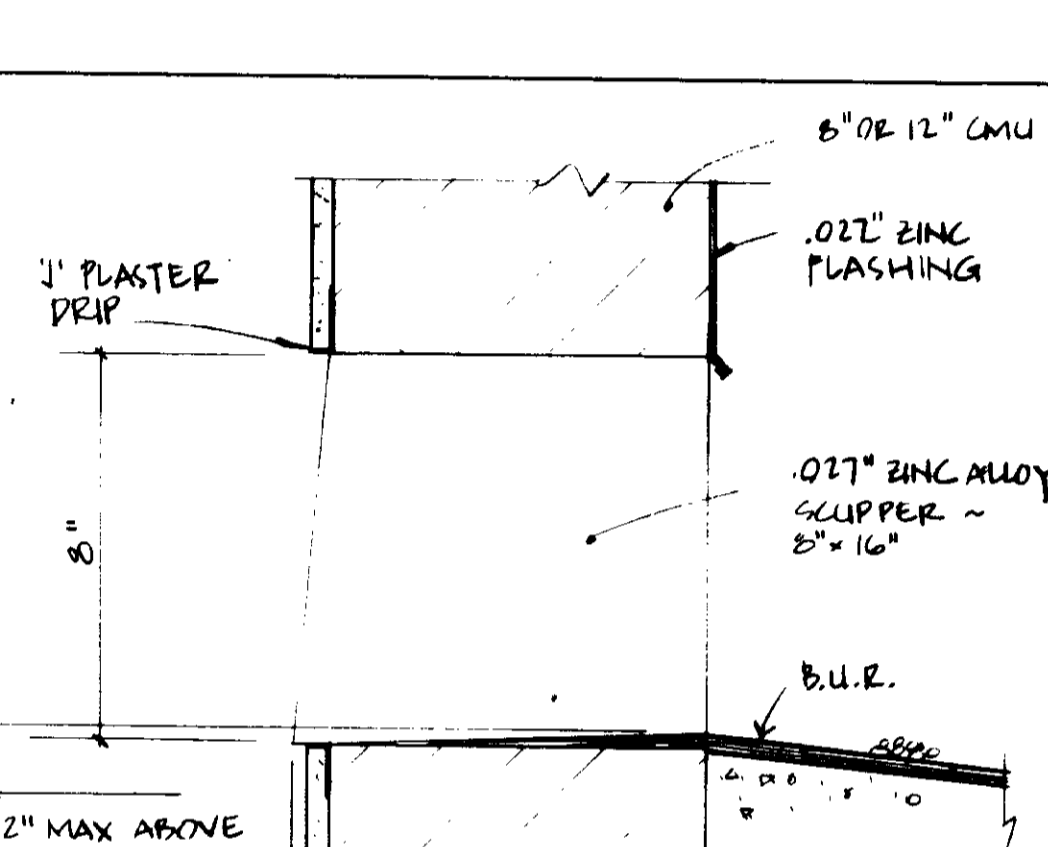
DETAIL
3" = 1'-0"
JAMB @ CRANE DOOR



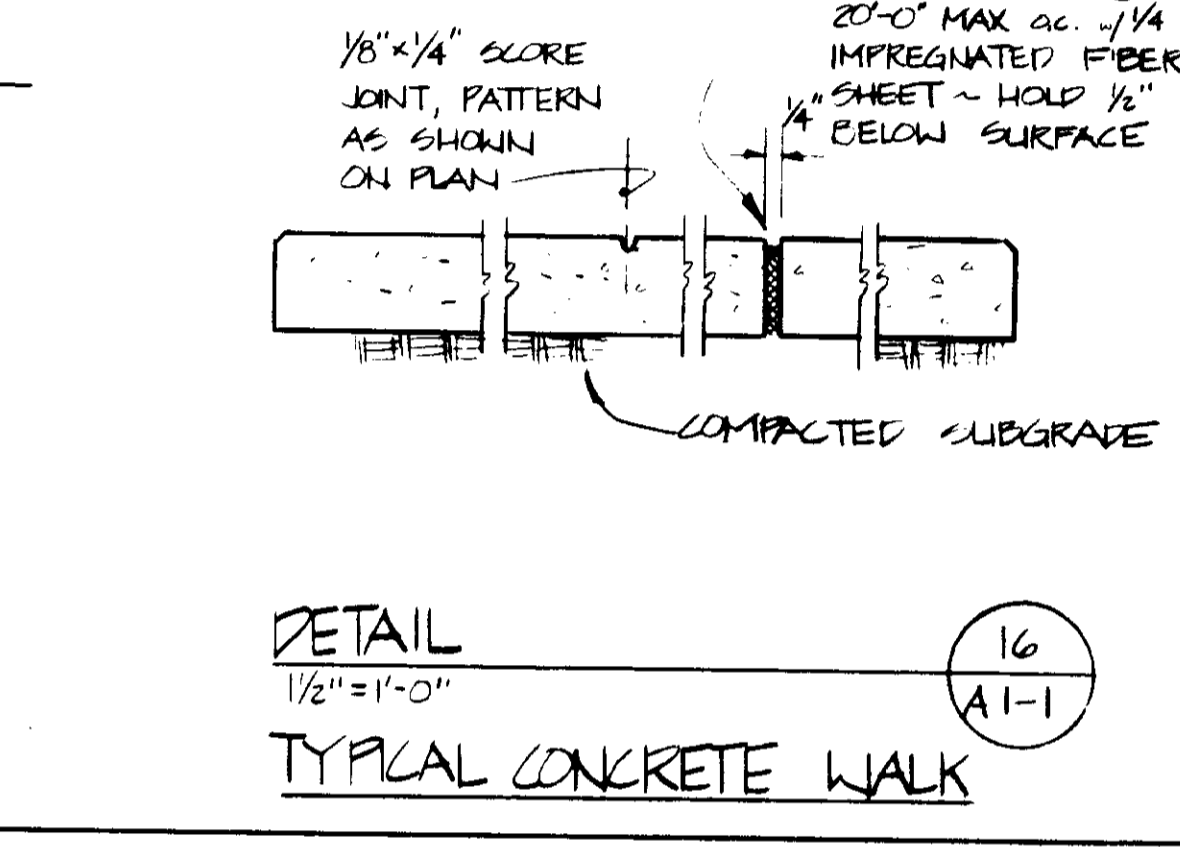
DETAIL
3" = 1'-0"
REMOVABLE TRANSOM



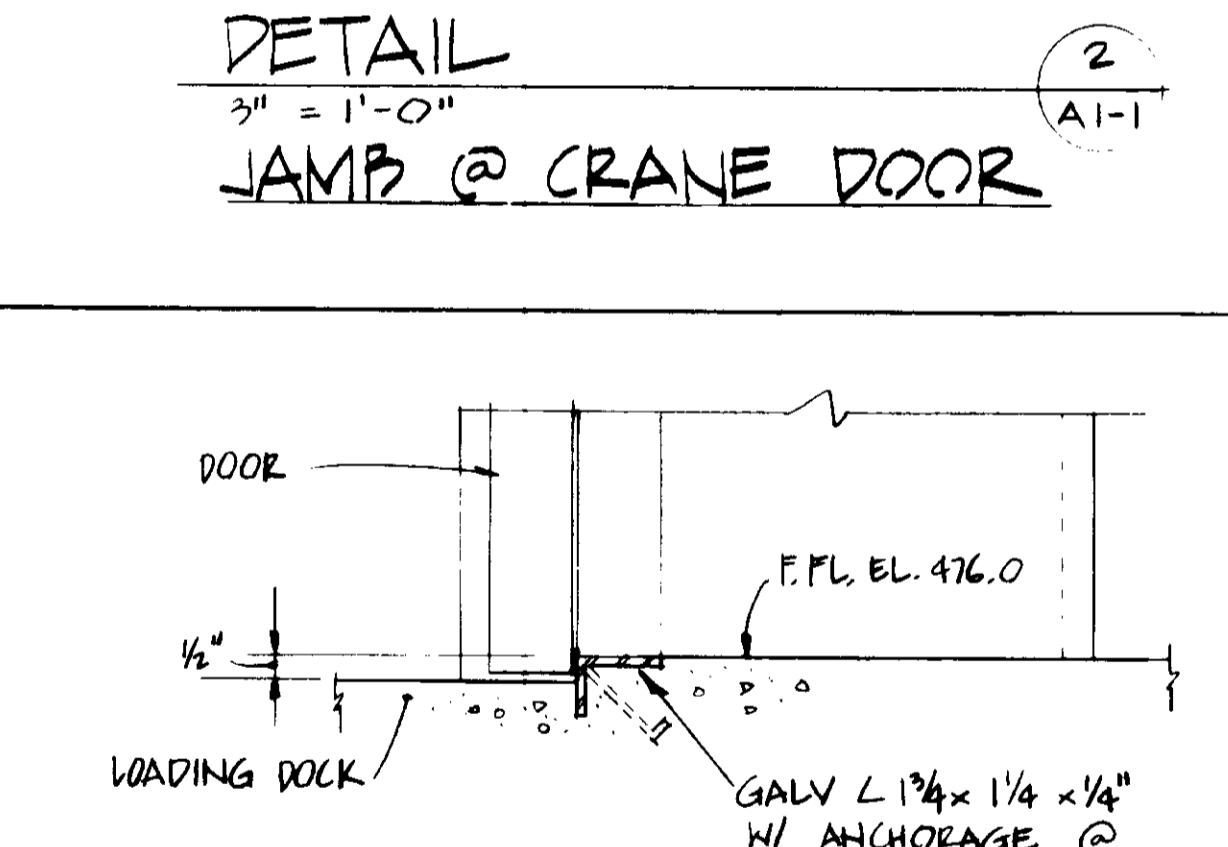
DETAIL
3" = 1'-0"
2\"/>



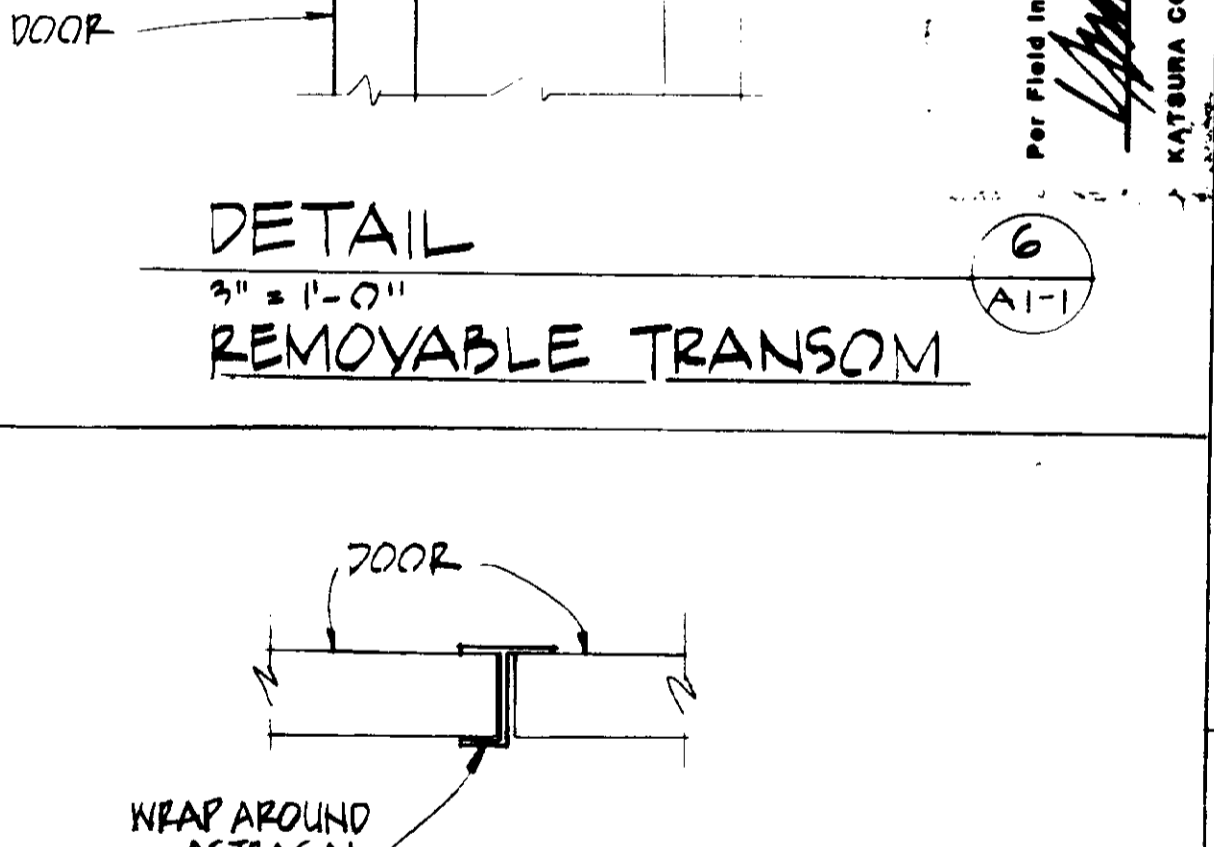
DETAIL
3" = 1'-0"
OVERFLOW SCUPPER



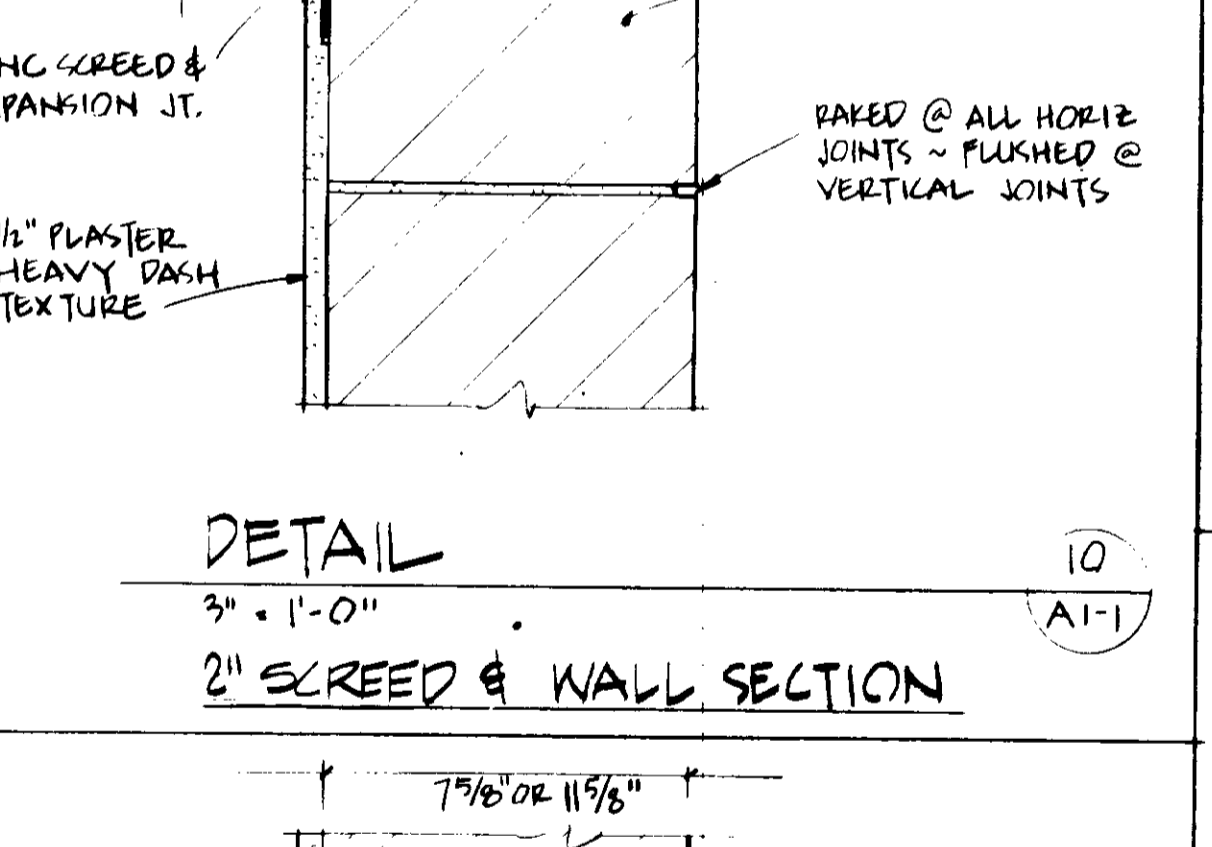
DETAIL
1/2\"/>



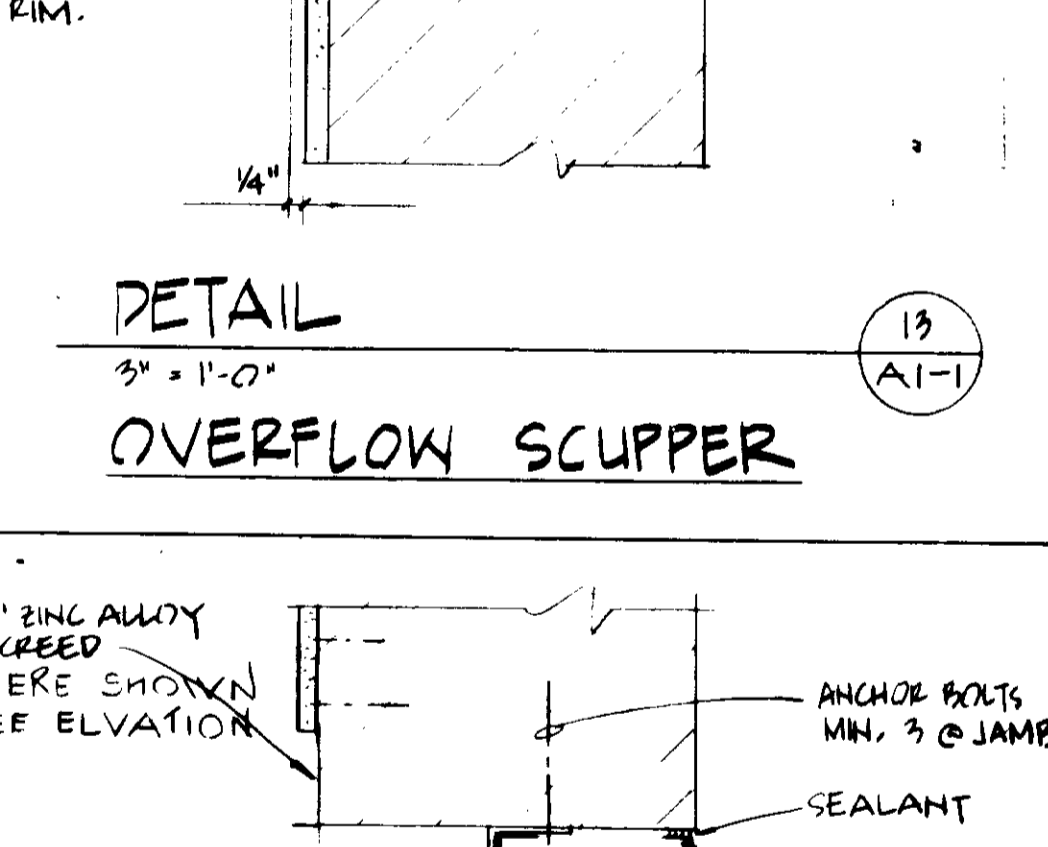
DETAIL
3" = 1'-0"
SILL @ CRANE DOOR



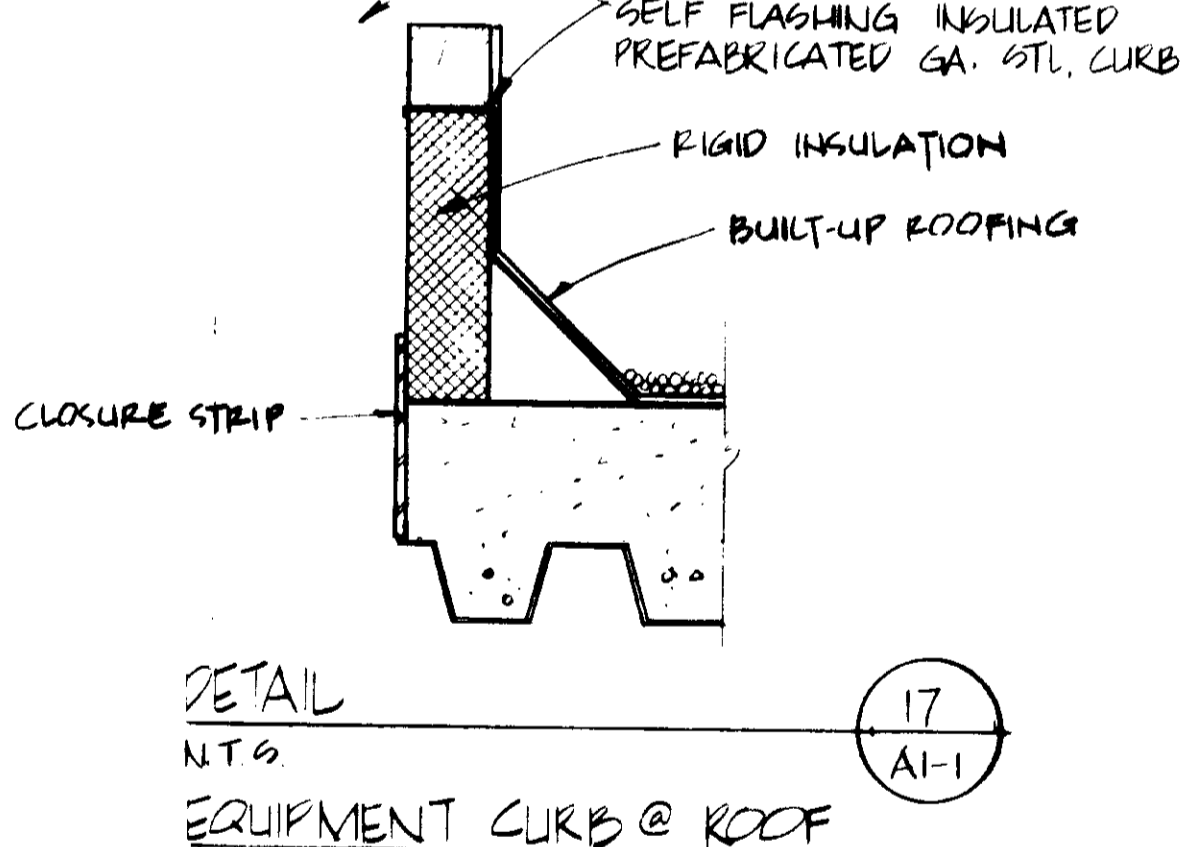
DETAIL
3" = 1'-0"
WRAP AROUND ASTRAGAL



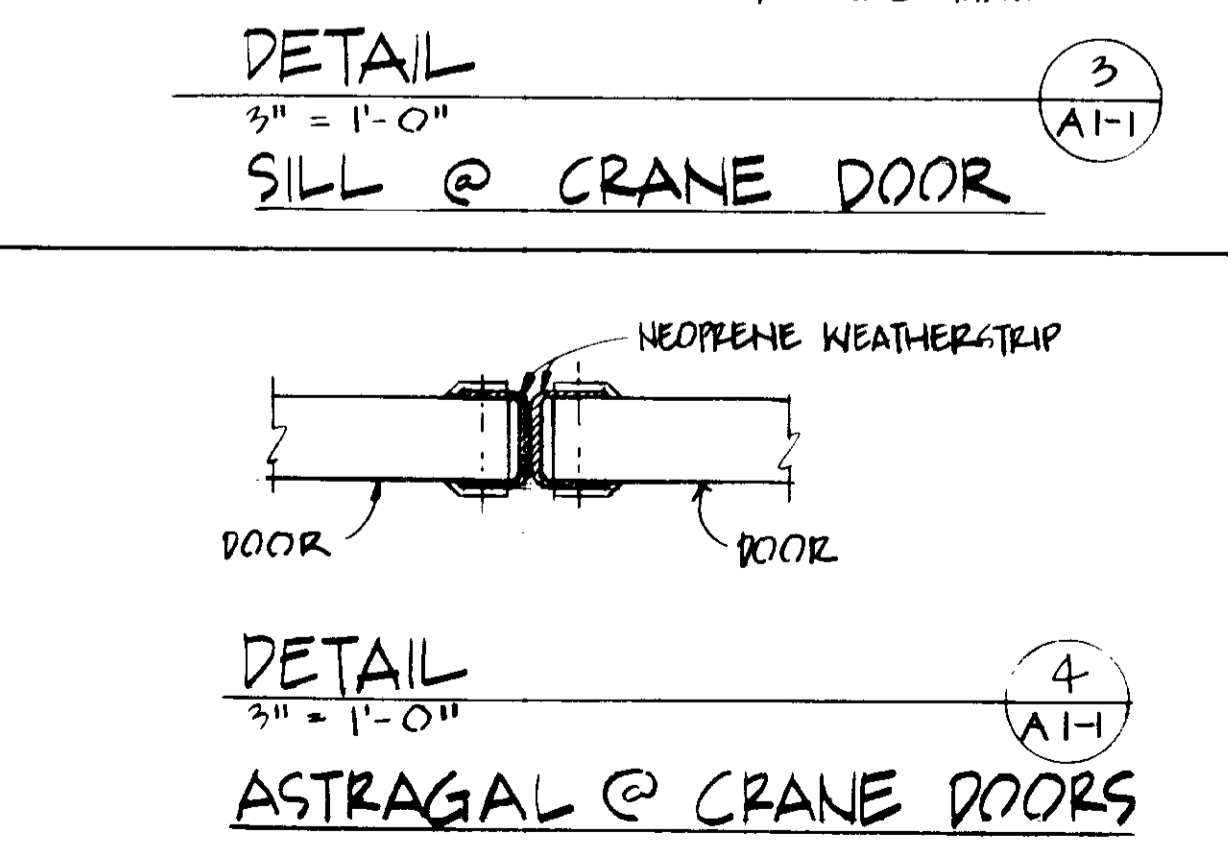
DETAIL
3" = 1'-0"
2\"/>



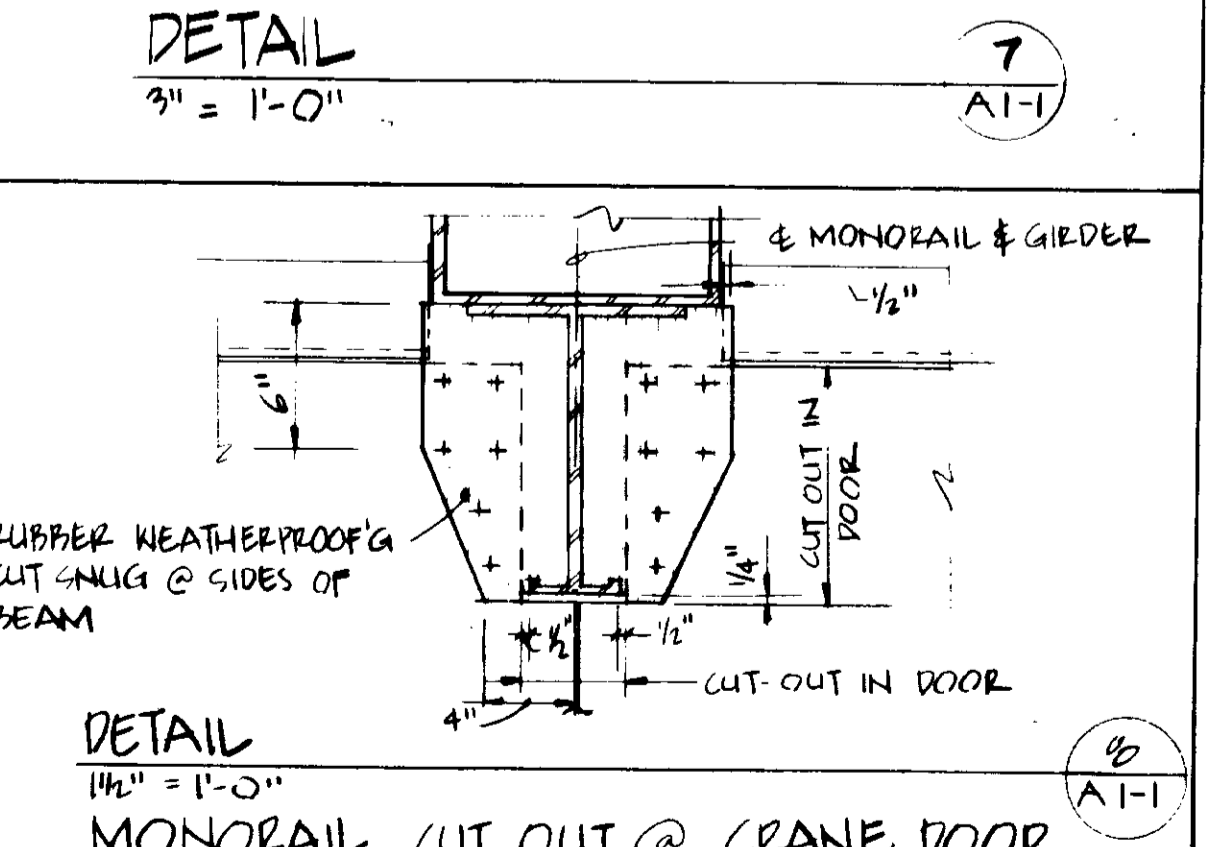
DETAIL
3" = 1'-0"
LOUVER/VENT



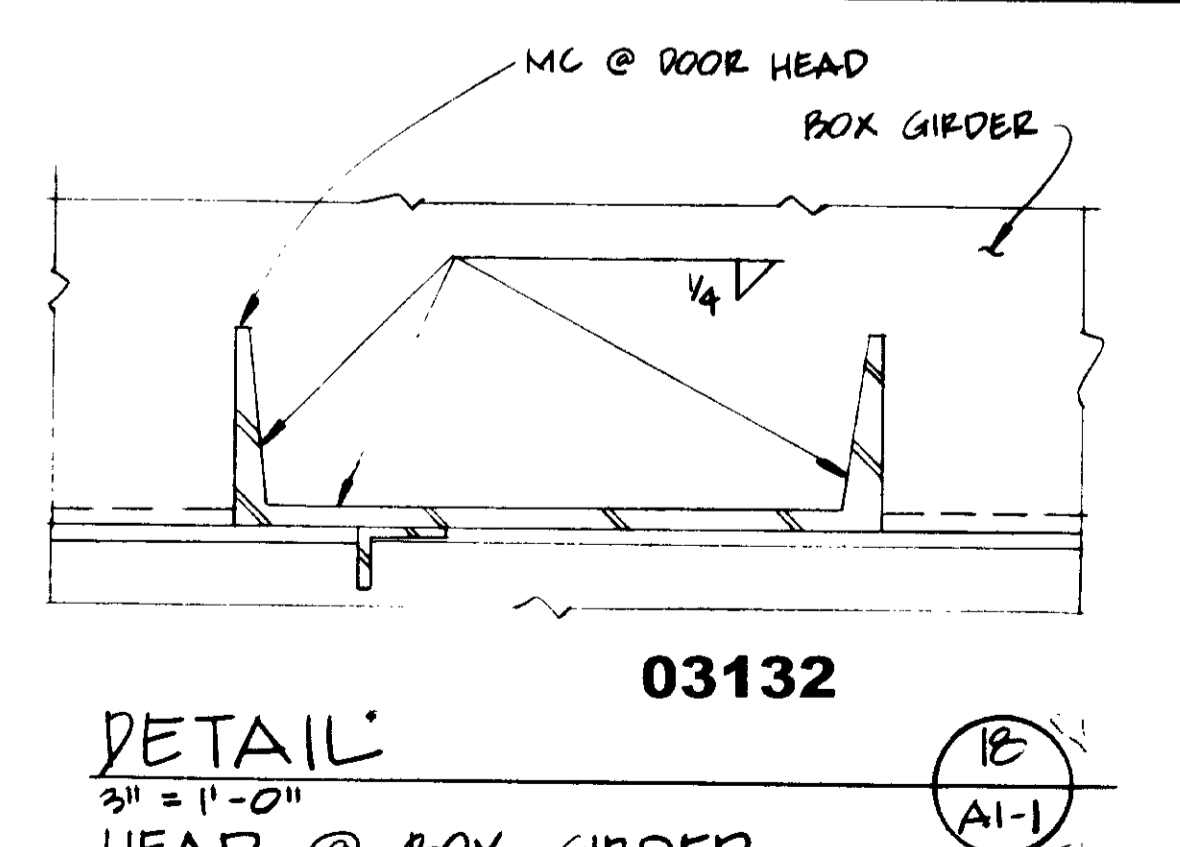
DETAIL
N.T.S.
EQUIPMENT CURB @ ROOF



DETAIL
3" = 1'-0"
ASTRAGAL @ CRANE DOORS



DETAIL
1 1/2\"/>



DETAIL
3" = 1'-0"
HEAD @ BOX GIRDER

REV	DATE	BY	DESCRIPTION

REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	ALL DESIGNED ACC	ALL DRAWN ACC	ALL CHECKED IARP
-----------------	------------------	---------------	------------------

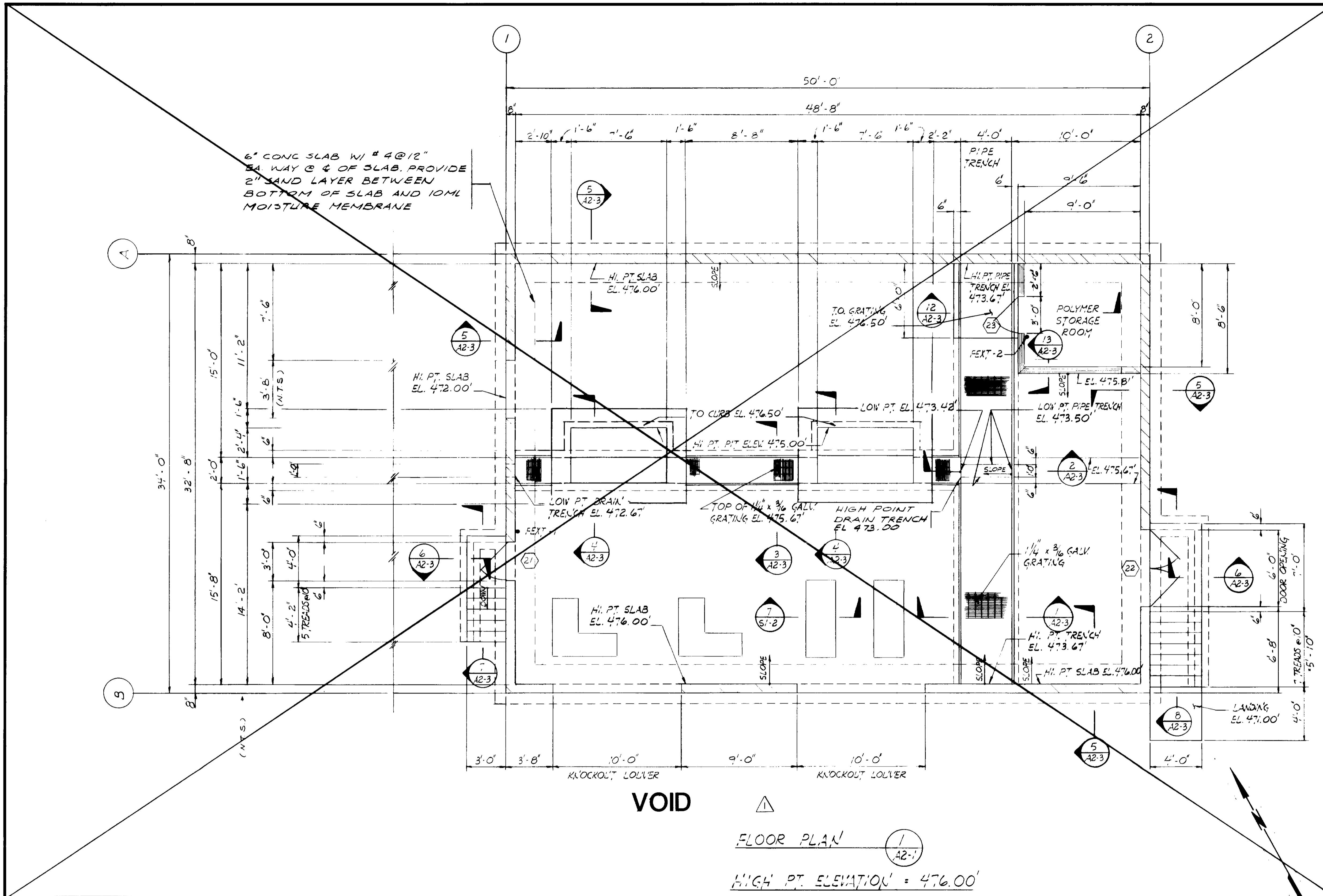
SUBMITTED BY: *[Signature]* 14038 11-5-79
 PROJECT MANAGER R.C.E. NO. DATE
 DRAWN BY: *[Signature]* 14884 11-5-79
 PROJECT ADMINISTRATOR R.C.E. NO. DATE

JVK CONSULTING ENGINEERS
 A JOINT VENTURE
 6601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.

TYPICAL ARCHITECTURAL DETAILS AT BUILDINGS

SHEET
AI-1



- NOTES**
1. FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS SEE SERIES S1 DRAWINGS.
 2. FOR LOCATION AND DIMENSIONS OF OPENINGS, EMBED OF ATTACHED ITEMS REFER TO MECHANICAL, ELECTRICAL, INSTRUMENTATION AND MISCELLANEOUS METAL DRAWINGS.
 3. DESIGNATION ∇ SLOPE REFERS TO A DOWNWARD SLOPE, UNLESS NOTED OTHERWISE.
 4. DESIGNATION \square REFERS TO SHEET A1-2 \square
 5. DIMENSION AND DETAILS MAY VARY DEPENDING UPON EQUIPMENT REQUIREMENTS. VERIFY ALL DIMENSIONS AND DETAILS WITH MECHANICAL.
 6. FOR LOCATION OF EQUIPMENT ANCHOR BOLTS, SEE APPROVED VENDOR'S DRAWINGS.
 7. ALL GRATING SUPPORT METAL (EMBEDDED ANGLES, LEDGER ANGLES, EXP BOLTS) SHALL BE GALVANIZED.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
[Signature]
 RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

03134
[Signature]
 PCH-C5-26

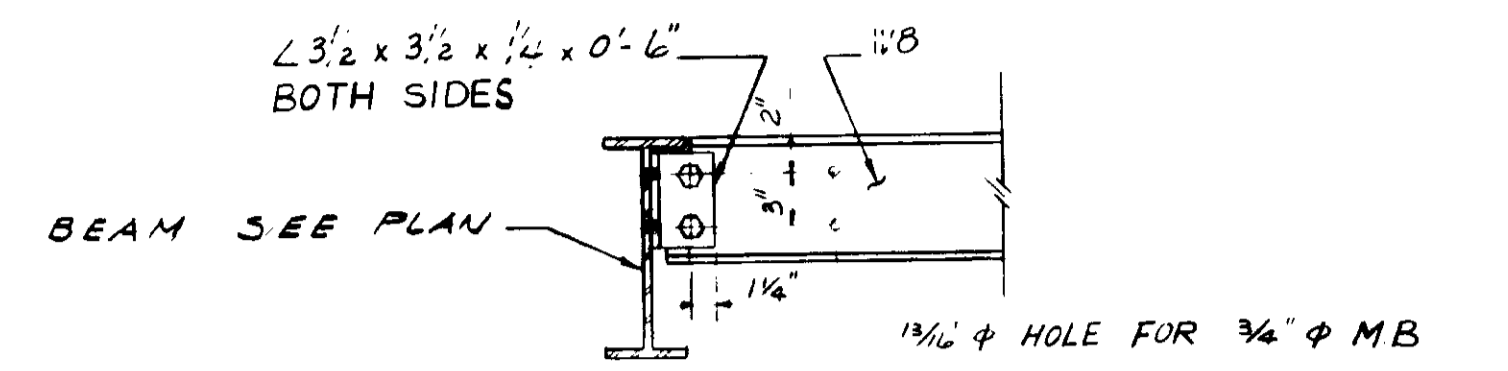
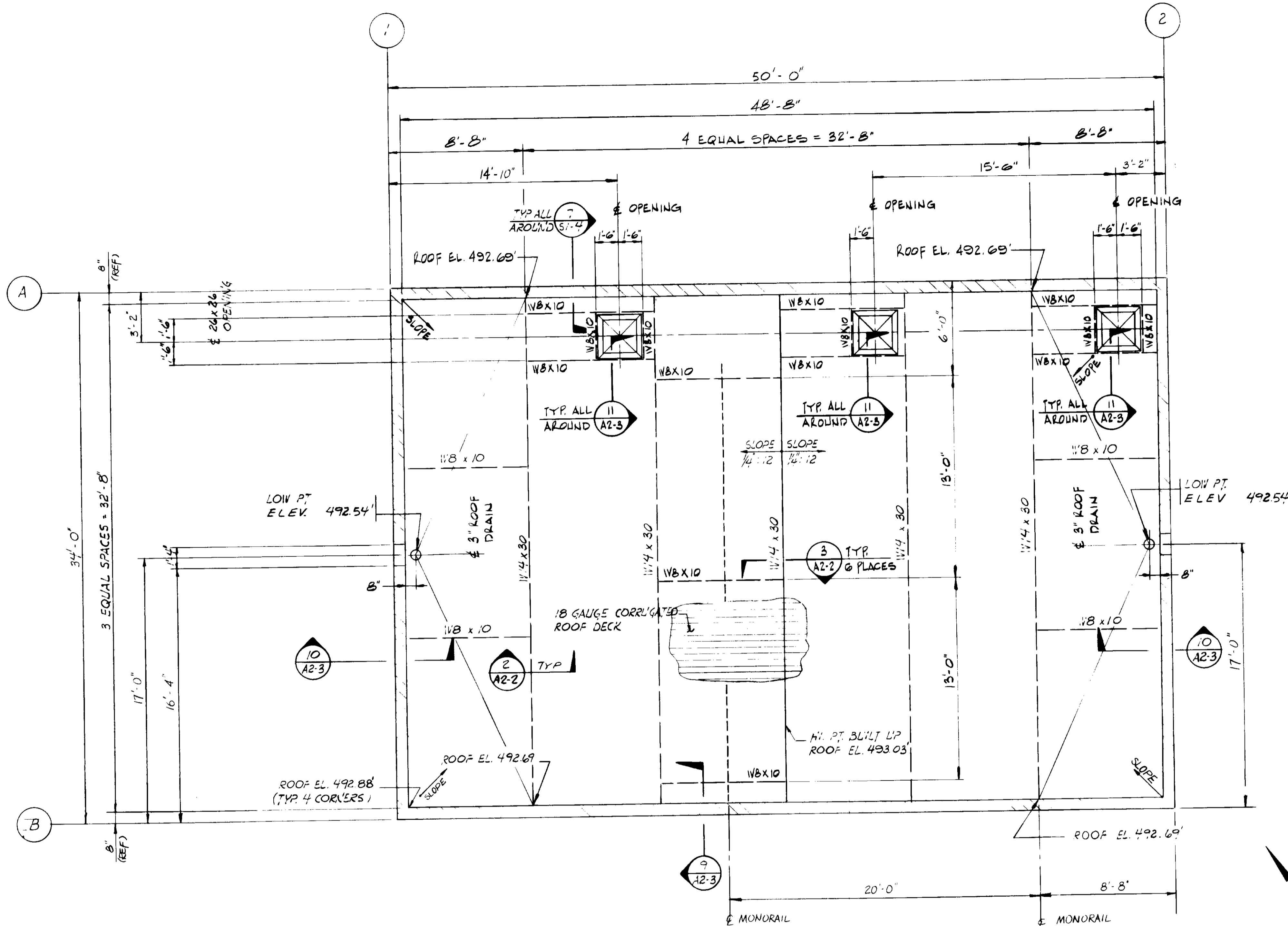
REV	DATE	BY	DESCRIPTION

SCALE :	$\frac{1}{4} = 1' - 0"$	DESIGNED	G. MOON
		DRAWN	R. LEE
		CHECKED	R. LEE
SUBMITTED	<i>[Signature]</i>	PROJECT MANAGER	K. NEAVY
	14038		8/15/79
			R.C.E. NO. DATE

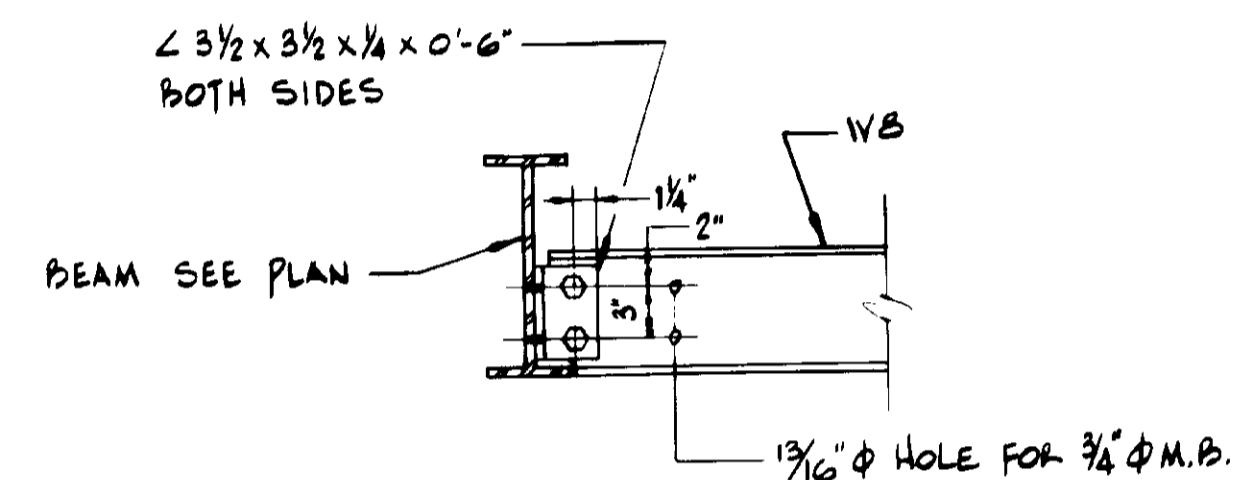
JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
SLUDGE DEWATERING BUILDING
FLOOR PLAN

SHEET
A2-1



TYP BEAM TO BEAM CONNECTION
1" = 1'-0" (2)

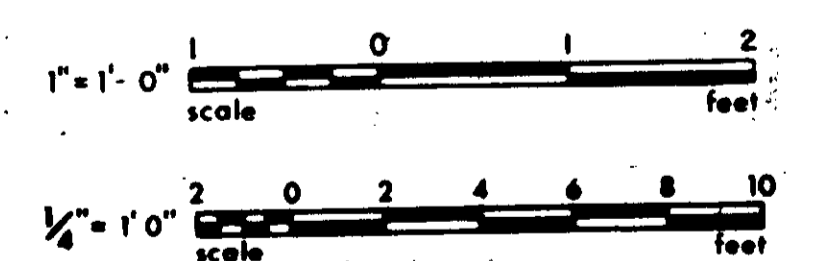


BEAM CONNECTION (3)
1" = 1'-0" (A2-2)

ROOF FRAMING PLAN (1)
A2-2

NOTE: ALL ROOF ELEVATIONS ARE TO TOP OF CONC FILL

NOTES
1. FOR NOTES SEE SH. A2-1



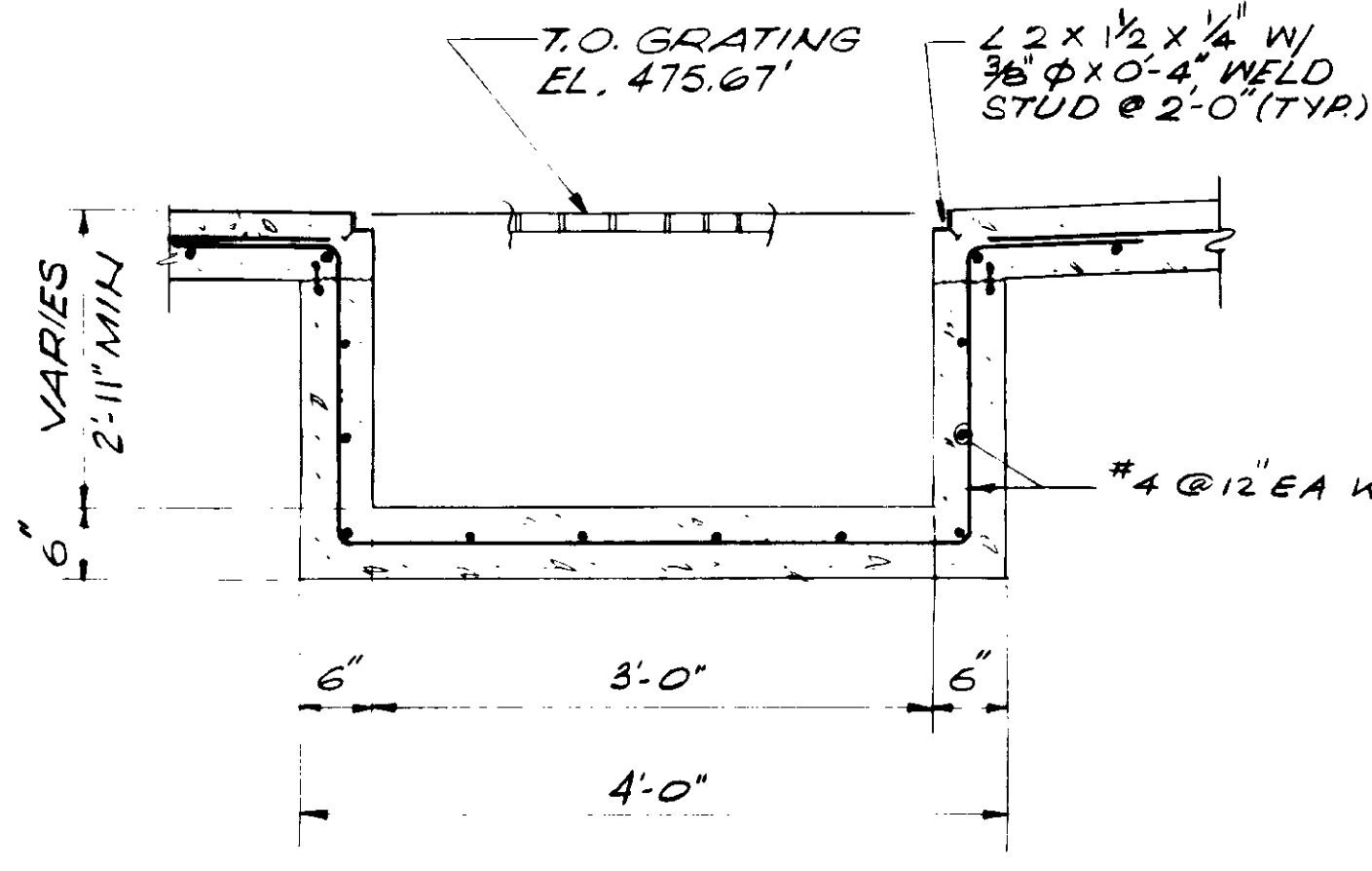
03135

RECORD DRAWINGS

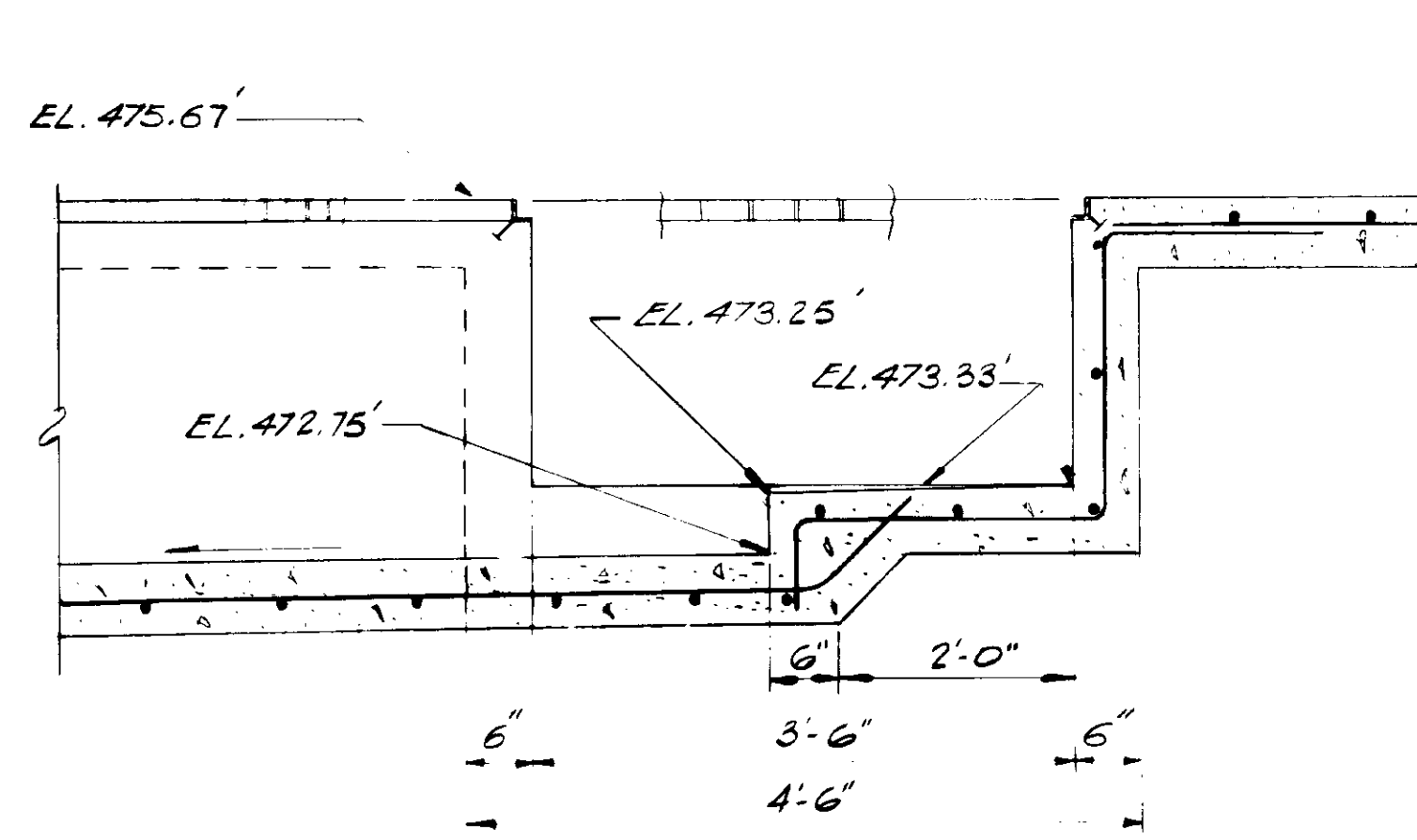
Per Field Information Provided By Morley-Ziebarth & Alper
[Signature]
KATSURA CONSULTING ENGINEERS
RCE 14038
March 1988

PC-5-20

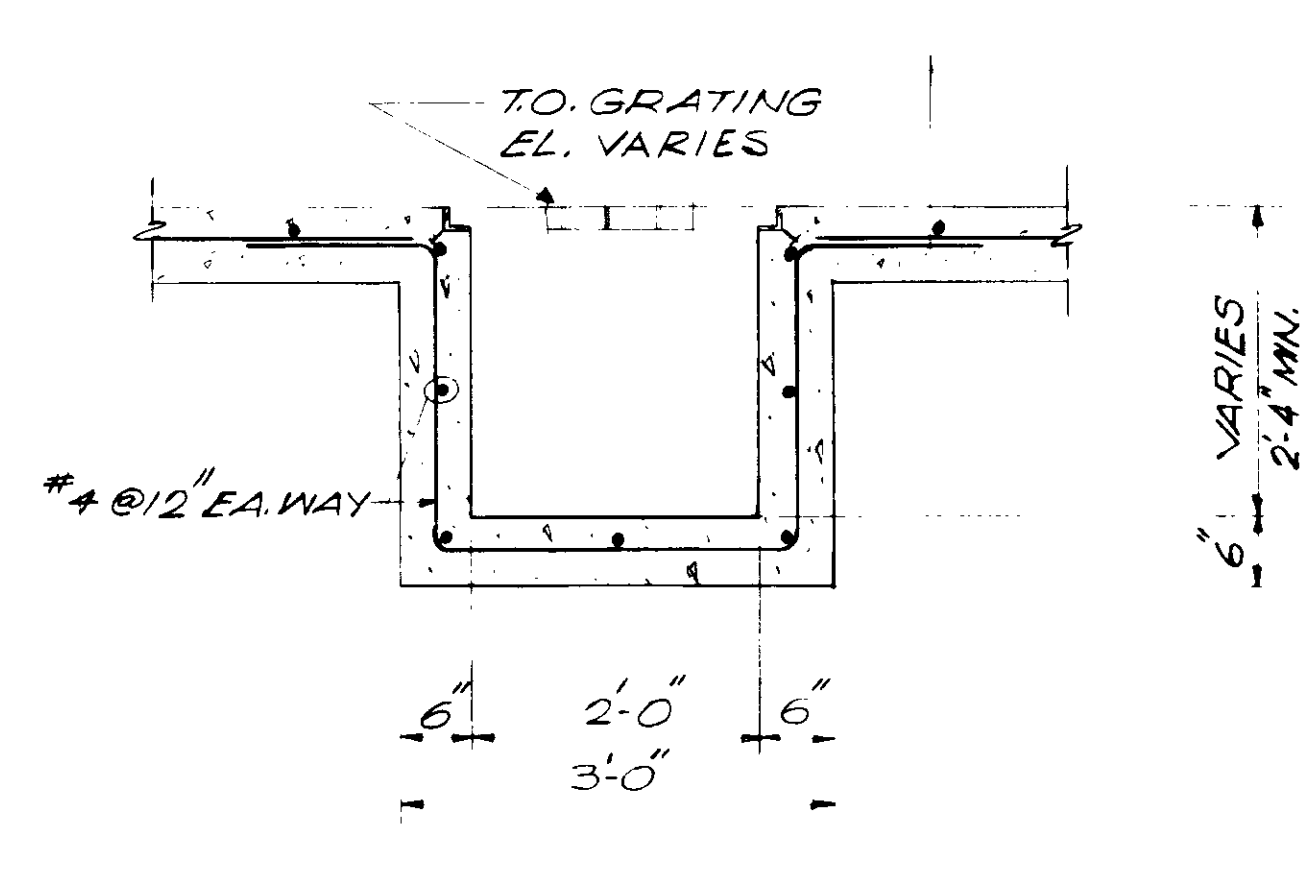
DESIGNED: S. MOON DRAWN: R. LEE CHECKED: R. LEE		SUBMITTED: <i>[Signature]</i> 14038 8/15/79 PROJECT MANAGER: R.C.E. NO. DATE		CONSULTING ENGINEERS A JOINT VENTURE 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933 9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. SLUDGE DEWATERING BUILDING ROOF FRAMING PLAN	SHEET A2-2	
SCALE: 1/4" = 1'-0" UNLESS NOTED OTHERWISE		PROJECT ADMINISTRATOR: <i>[Signature]</i> 14894 8/15/79 R.C.E. NO. DATE					
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
				5-20-81		R. LEE	COASTAL COMMISSION REVISION PART I



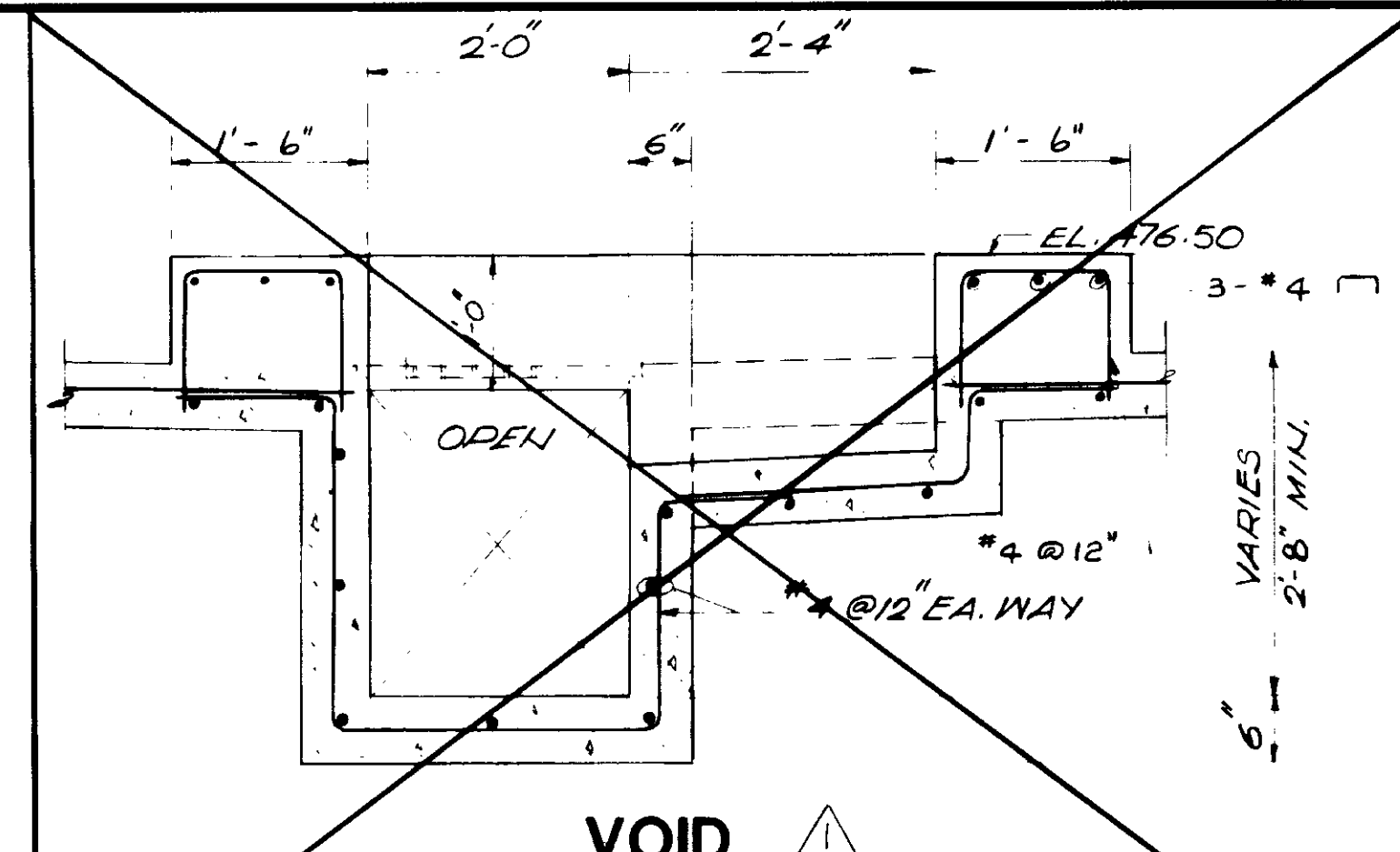
SECTION 1
NO SCALE
A2-3



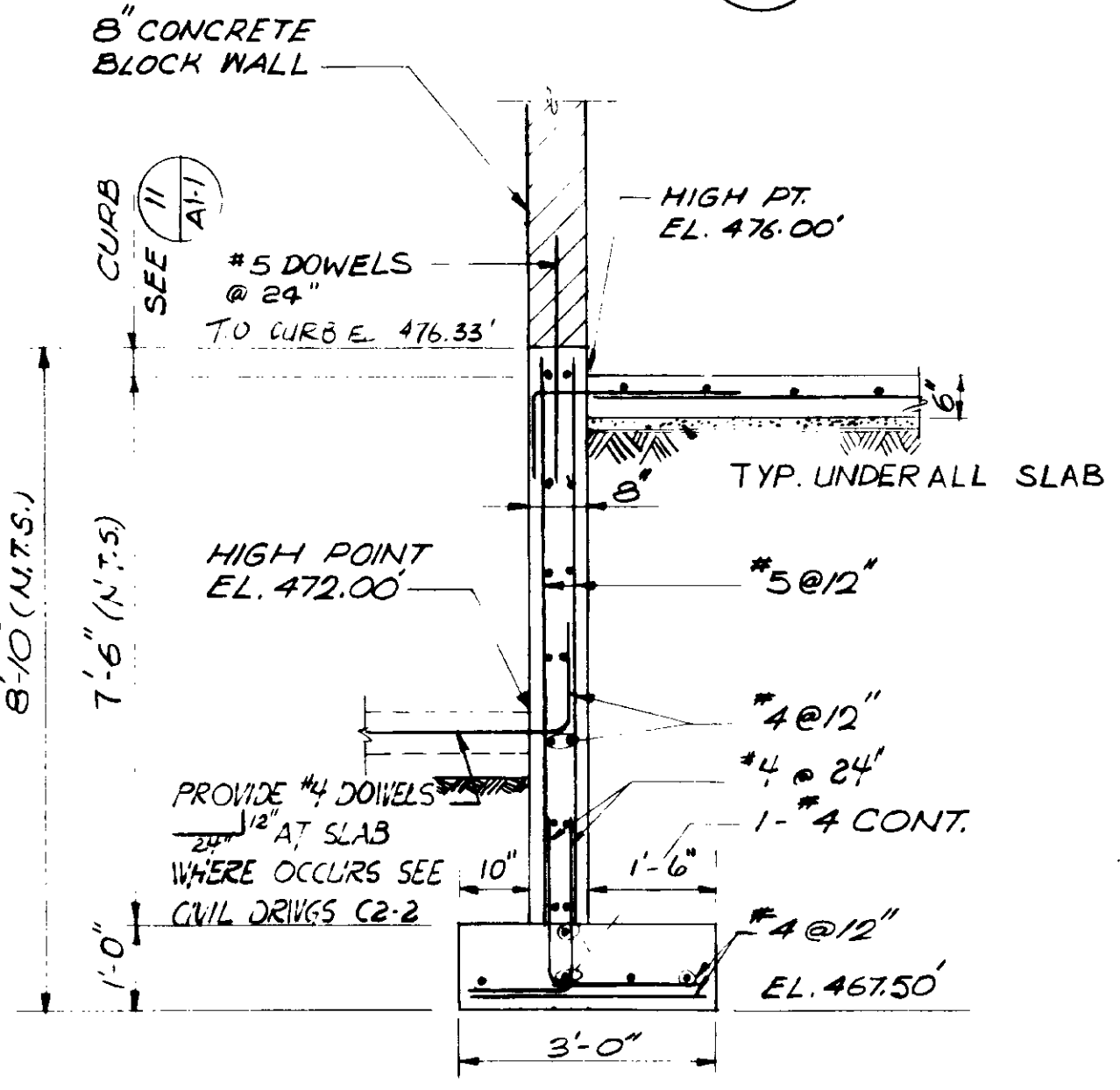
SECTION 2
NO SCALE
A2-3



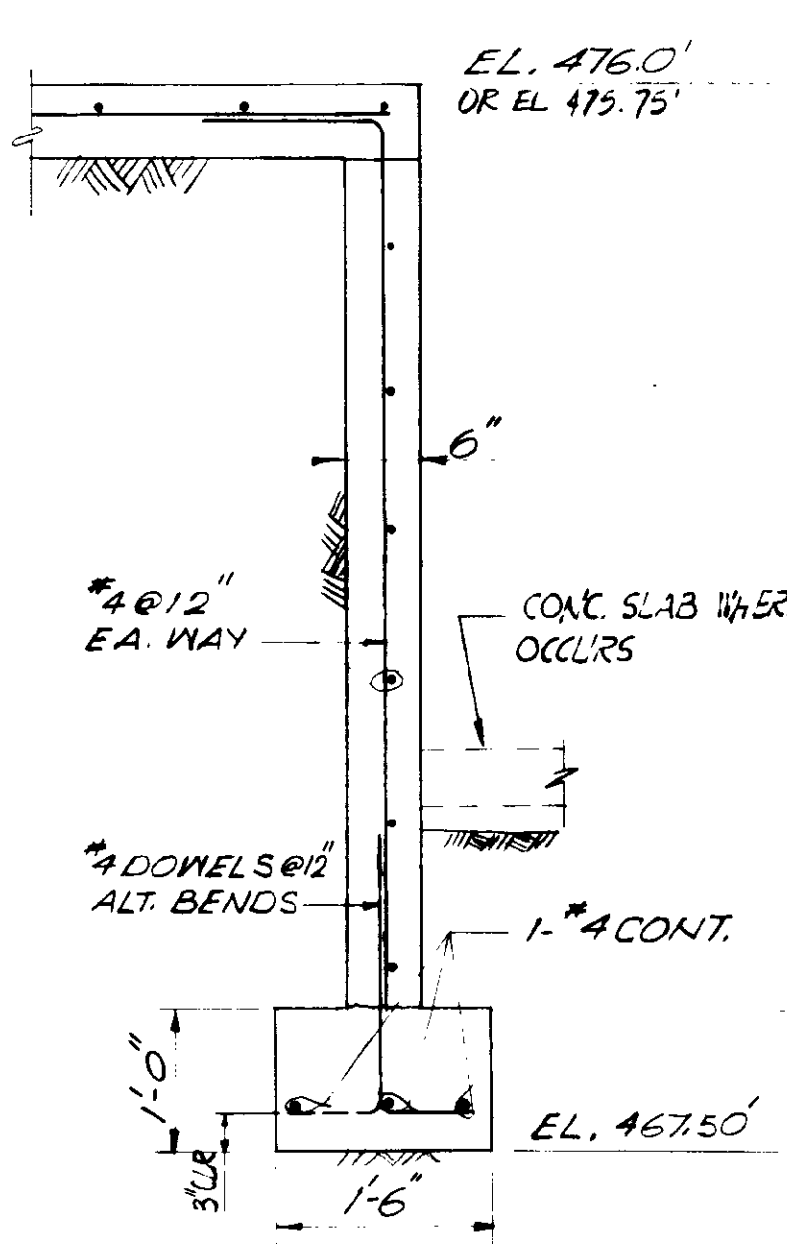
SECTION 3
NO SCALE
A2-3



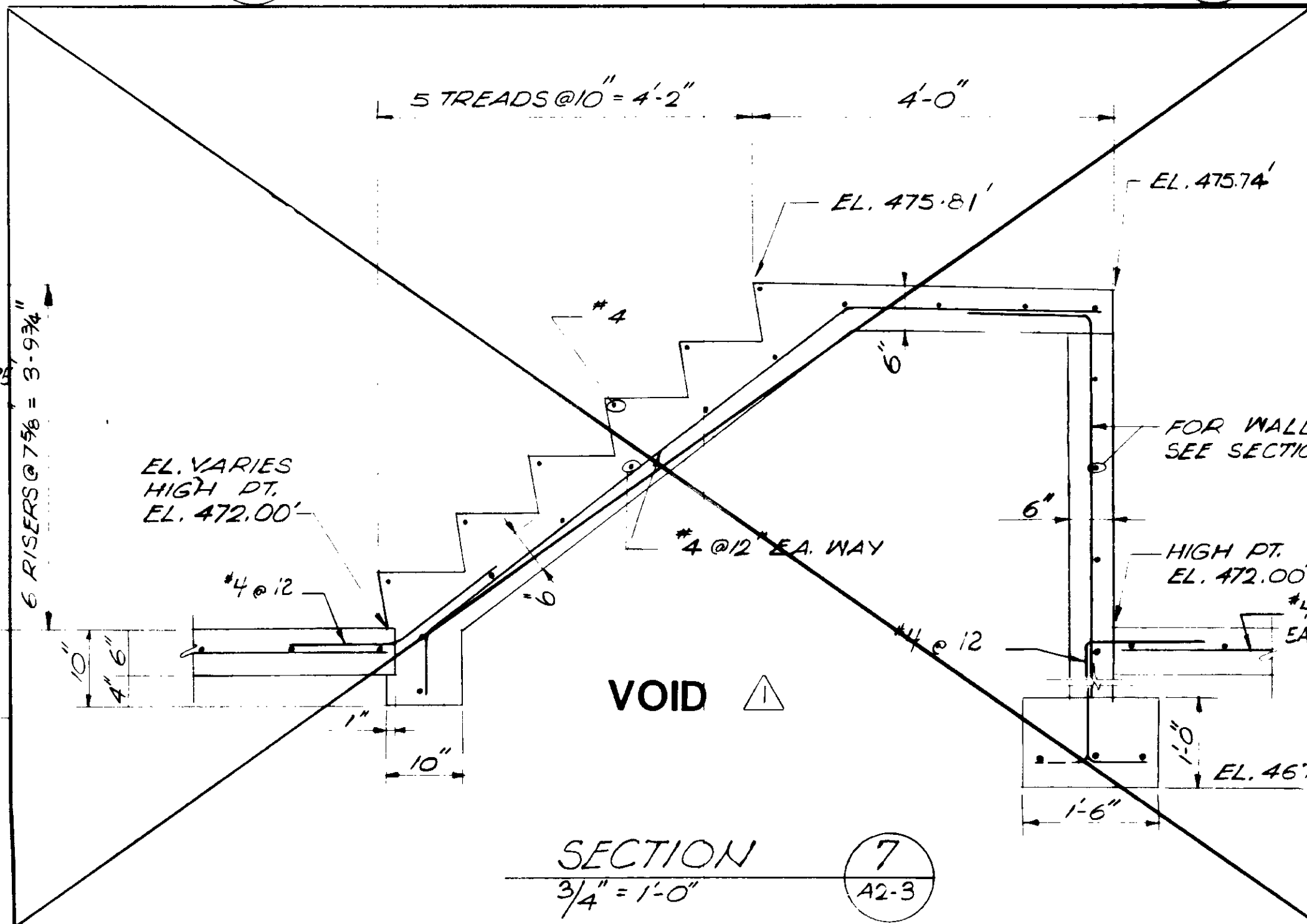
SECTION 4
3/4" = 1'-0"
A2-3



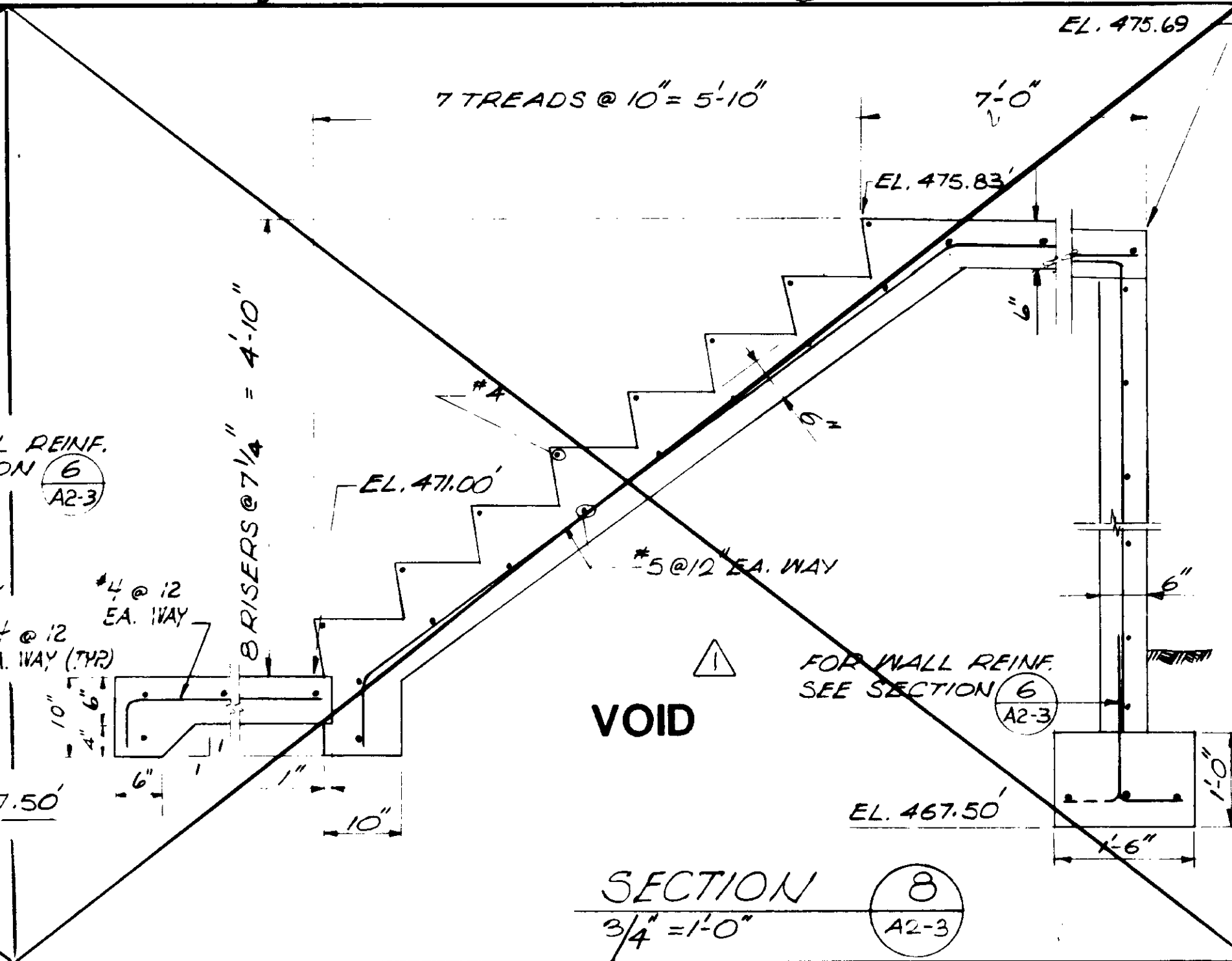
SECTION 5
1/2" = 1'-0"
A2-3



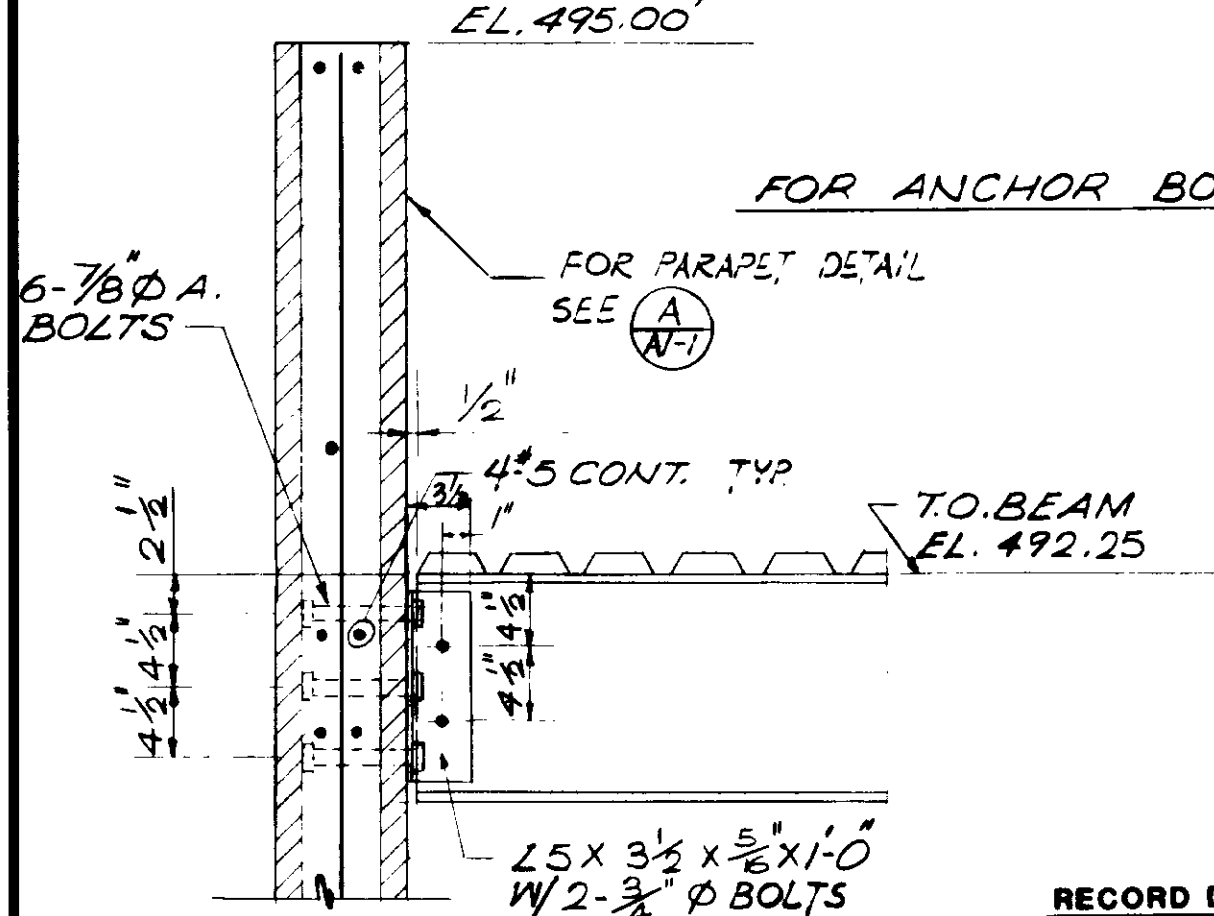
SECTION 6
3/4" = 1'-0"
A2-3



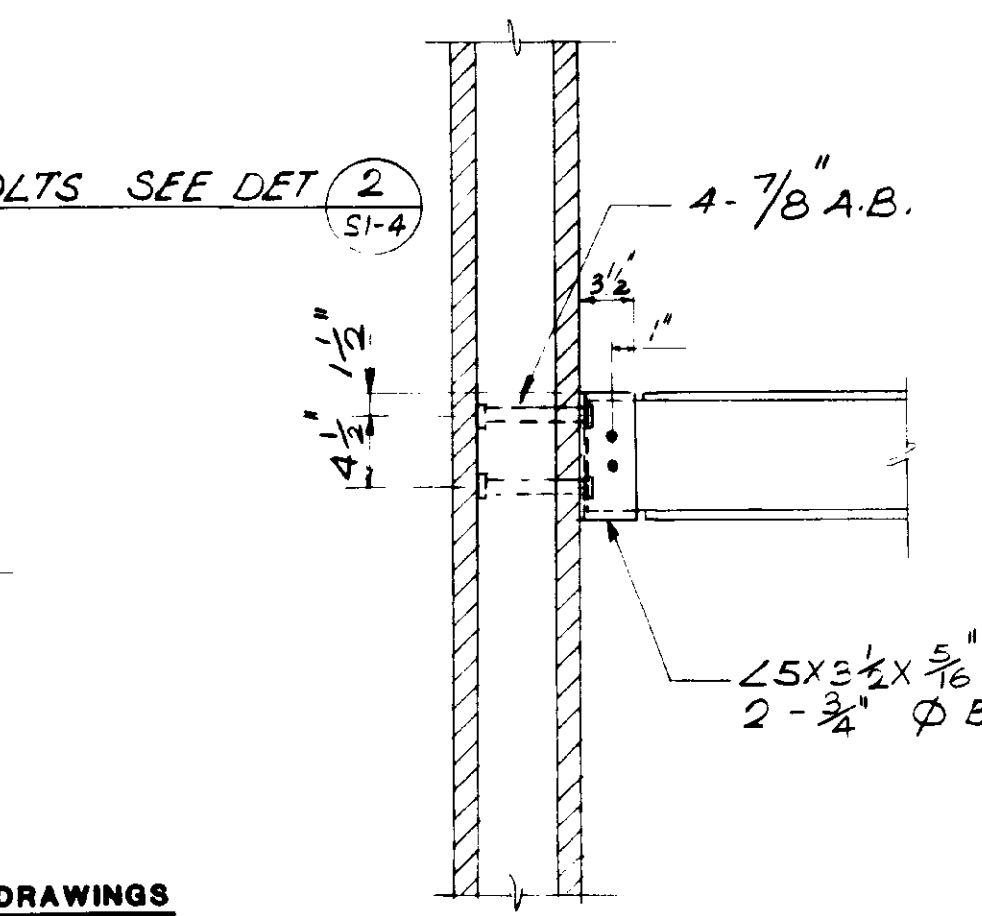
SECTION 7
3/4" = 1'-0"
A2-3



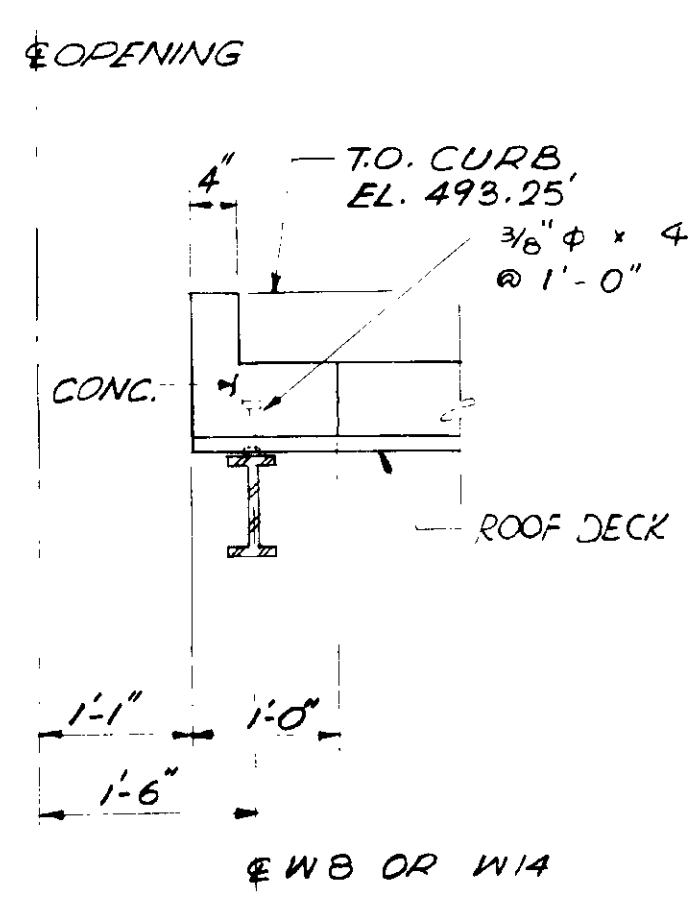
SECTION 8
3/4" = 1'-0"
A2-3



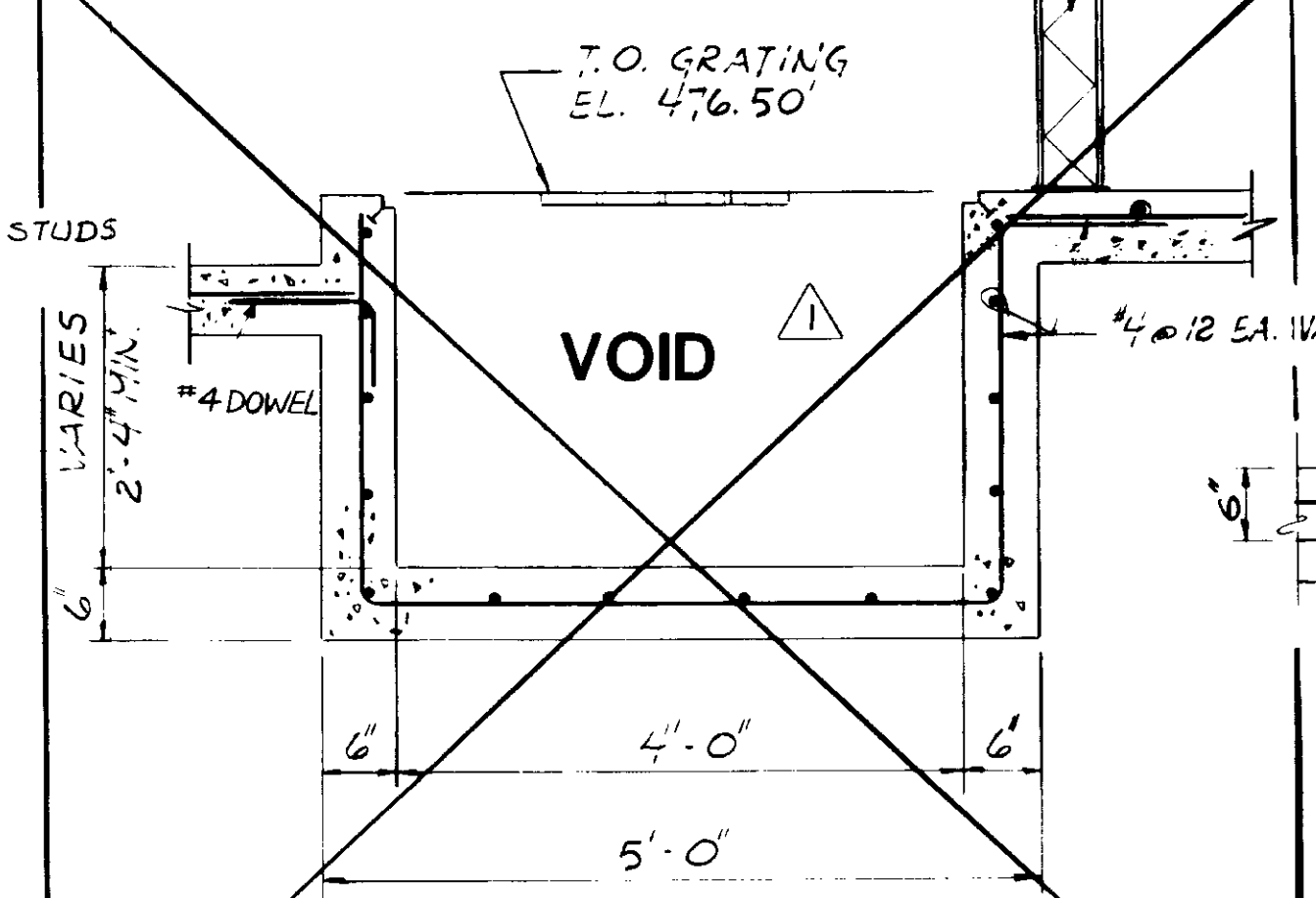
DETAIL 9
1" = 1'-0"
A2-3



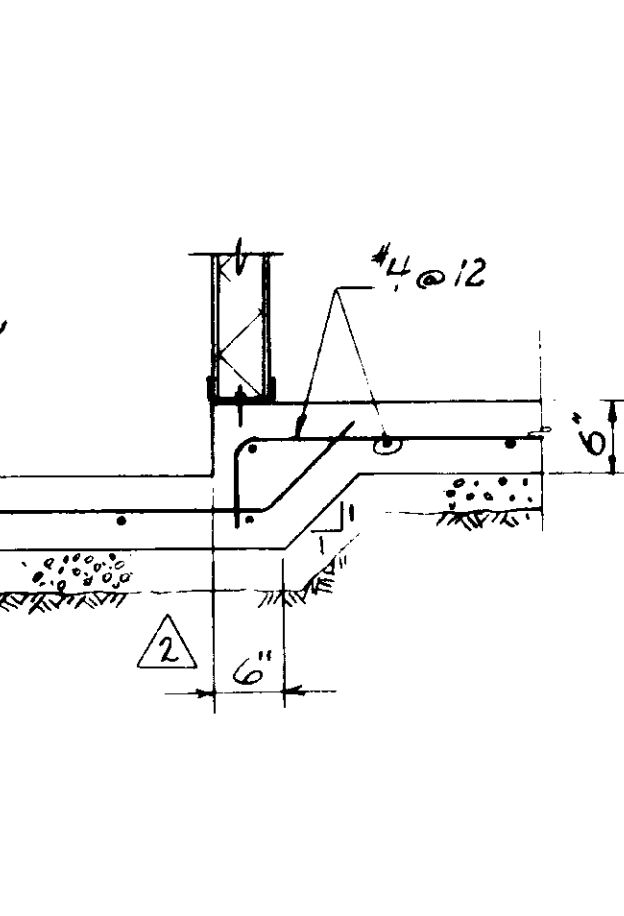
DETAIL 10
1" = 1'-0"
A2-3



SECTION 11
3/4" = 1'-0"
A2-3



SECTION 12
3/4" = 1'-0"
A2-3



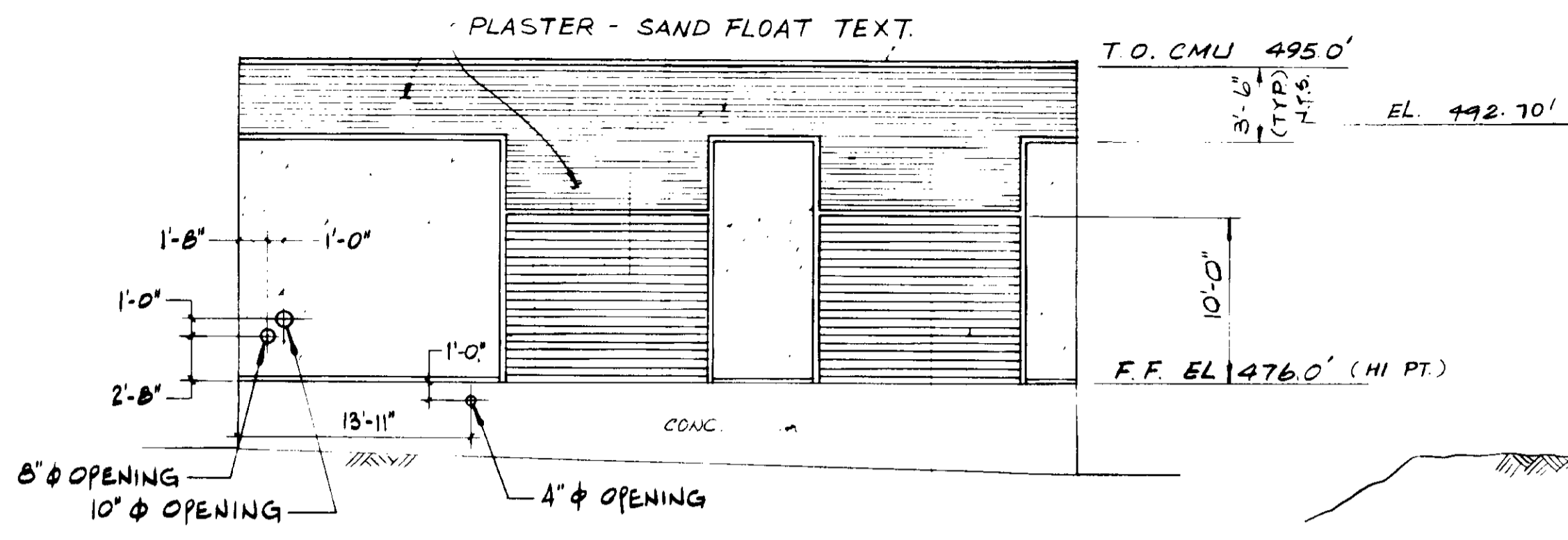
SECTION 13
3/4" = 1'-0"
A2-3

NOTES:
1. FOR NOTES SEE SH. A2-1.
3/4" = 1'-0" scale
1" = 1'-0" scale
1/2" = 1'-0" scale
GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

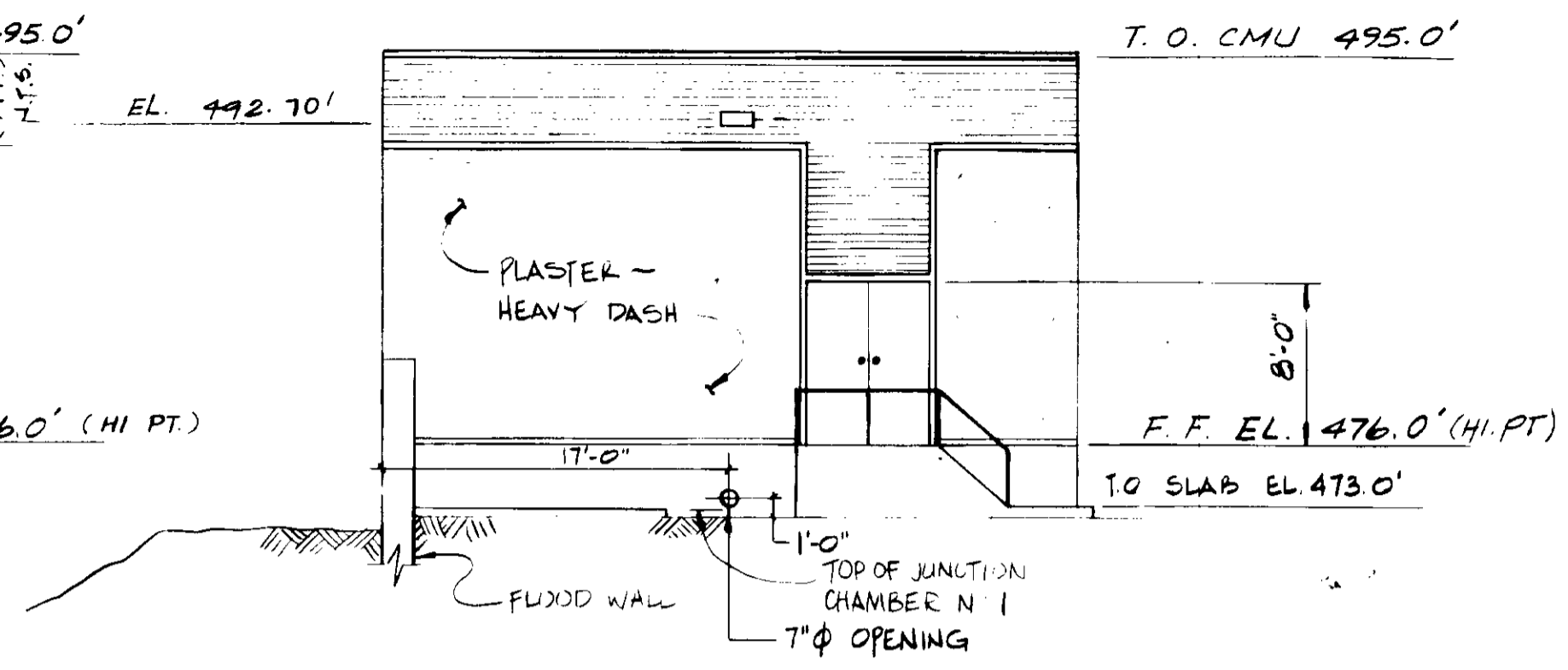
RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Votaw
KATSURA CONSULTING ENGINEERS
RCE 14038
March 1988

03136
PCH-C5-26

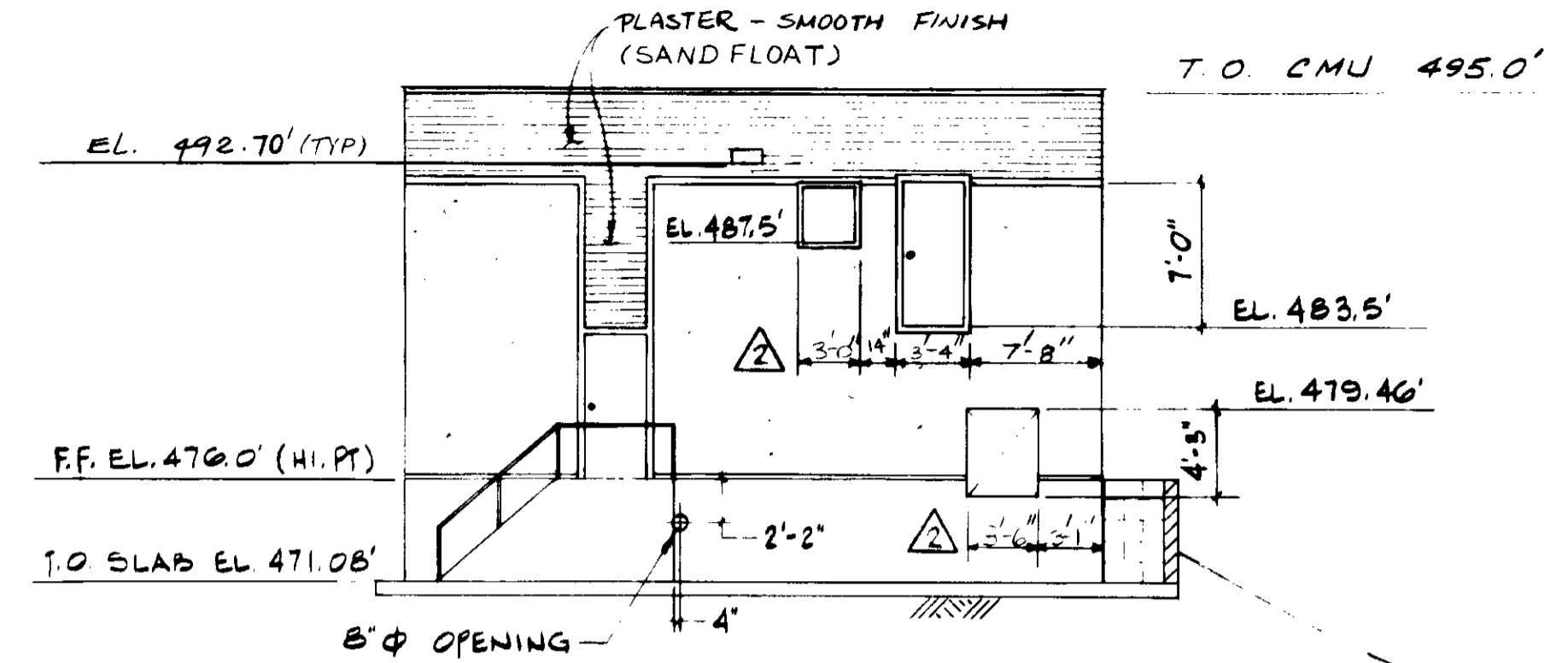
DESIGNED J. SINGH	SCALE : AS NOTED	PROJECT MANAGER <i>Yuh Votaw</i>	14038 R.C.E. NO.	8/15/79 DATE	 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. SLUDGE DEWATERING BUILDING SECTIONS & DETAILS	SHEET A2-3
DRAWN K. LEE	PROJECT ADMINISTRATOR <i>Yuh Votaw</i>	14894 R.C.E. NO.	8/15/79 DATE				
REV DATE BY DESCRIPTION	REV DATE BY DESCRIPTION	8-28-81 RLEE CLARIFICATION 9-4-81 RLEE COASTAL COMMISSION REVISION PART 2					



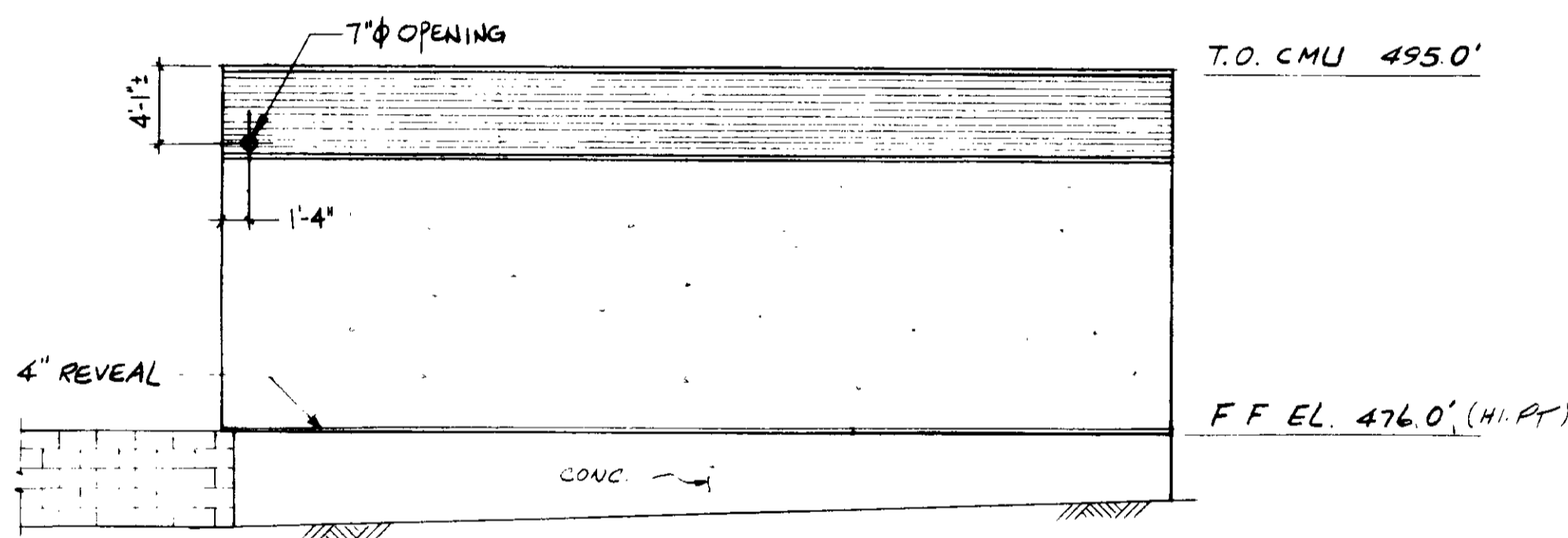
△ ELEVATION 1
 $\frac{1}{8}'' = 1'-0''$ A2-4
 SOUTH WALL



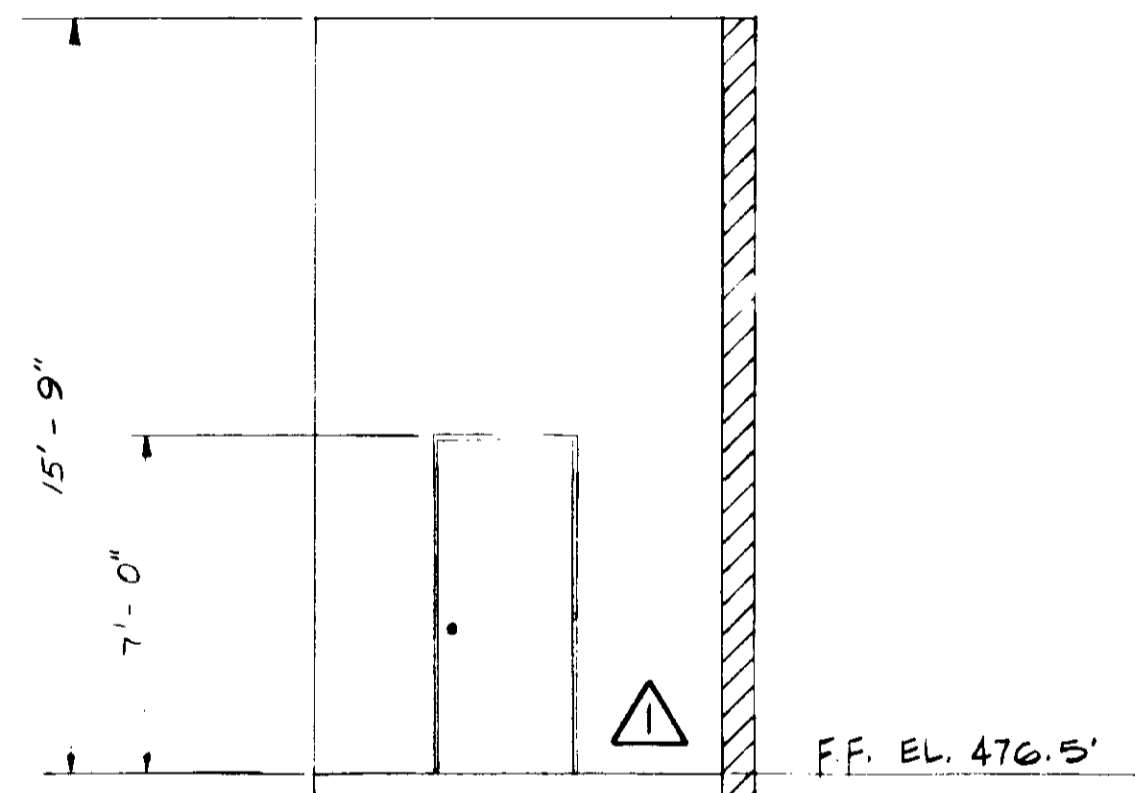
△ ELEVATION 2
 $\frac{1}{8}'' = 1'-0''$ A2-4
 WEST WALL



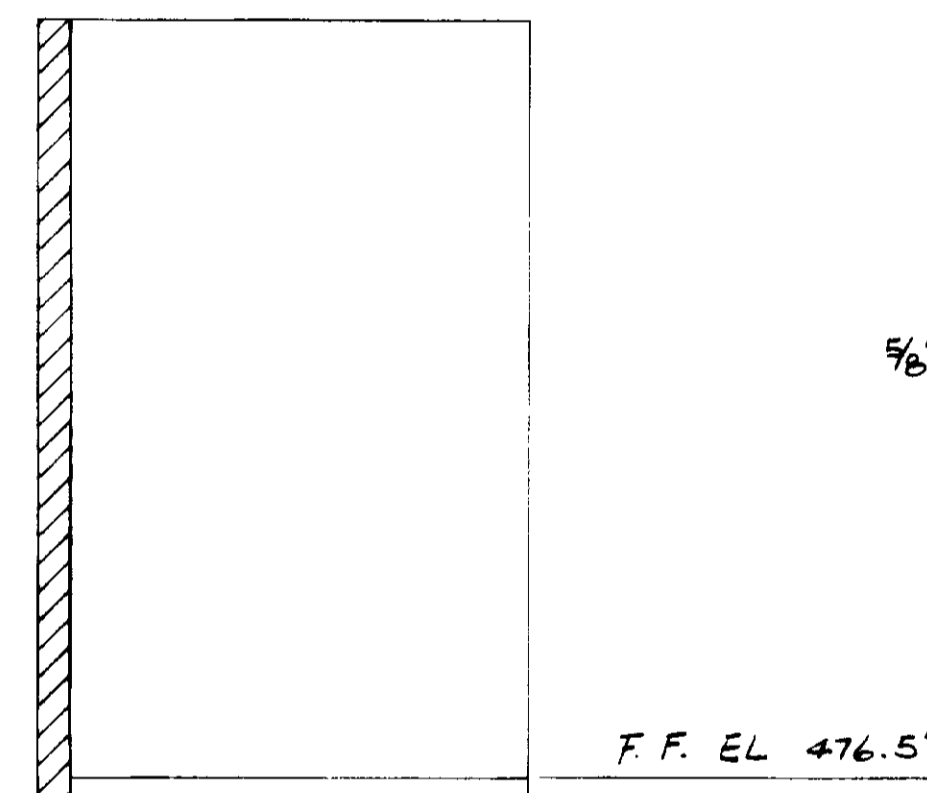
△ ELEVATION 3
 $\frac{1}{8}'' = 1'-0''$ A2-4
 EAST WALL



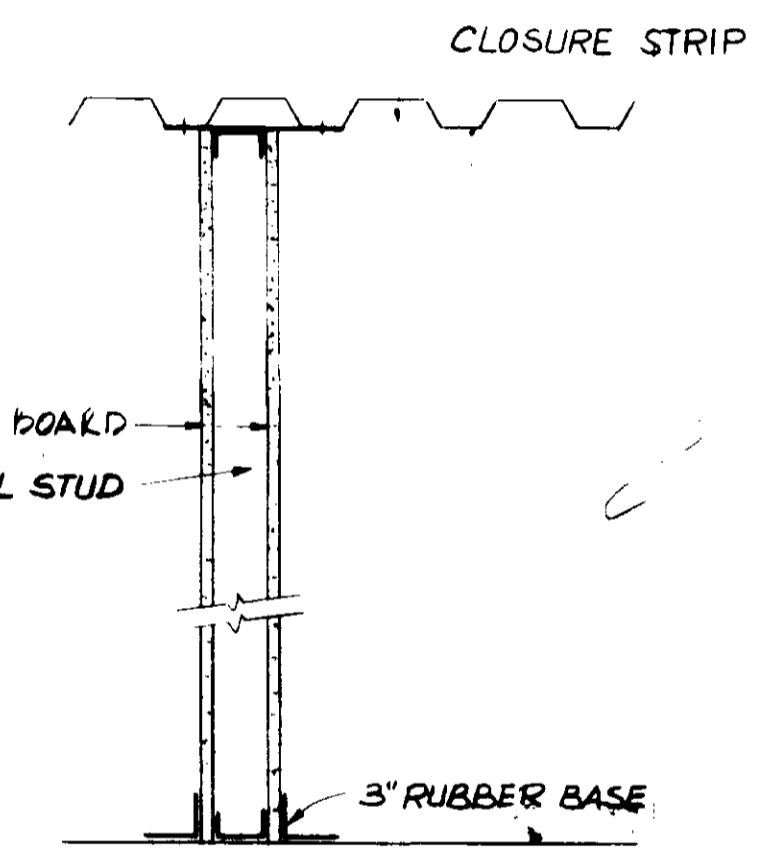
△ ELEVATION 4
 $\frac{1}{8}'' = 1'-0''$ A2-4
 NORTH WALL



ELEVATION 5
 $\frac{1}{4}'' = 1'-0''$ A2-4
 EAST WALL
 POLYMER STORAGE ROOM

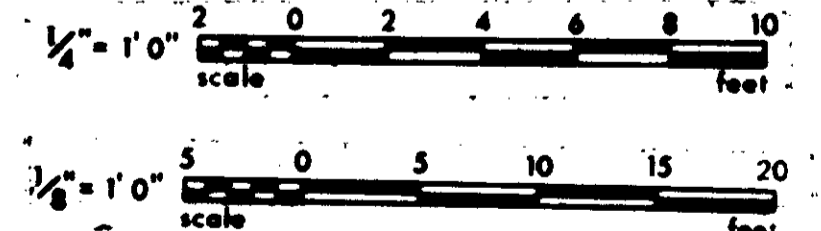


ELEVATION 6
 $\frac{1}{4}'' = 1'-0''$ A2-4
 SOUTHWALL
 POLYMER STORAGE ROOM



DETAIL 7
 $1'' = 1'-0''$ A2-4
 STUD WALL

- NOTE:
 1. FOR NOTES SEE SH. A2-1
 2. PROVIDE #6 BAR AROUND ALL OPENING FOR DETAIL SEE SH. S1-1
 3. SEE MECHANICAL DRAWINGS FOR LOCATION OF PIPING & BLOCKOUTS.



GRAPHIC SCALES

DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper

[Signature]
 RCE 14038
 MARCH 1985
 KATSURA CONSULTING ENGINEERS

03137

PCH-C5-26

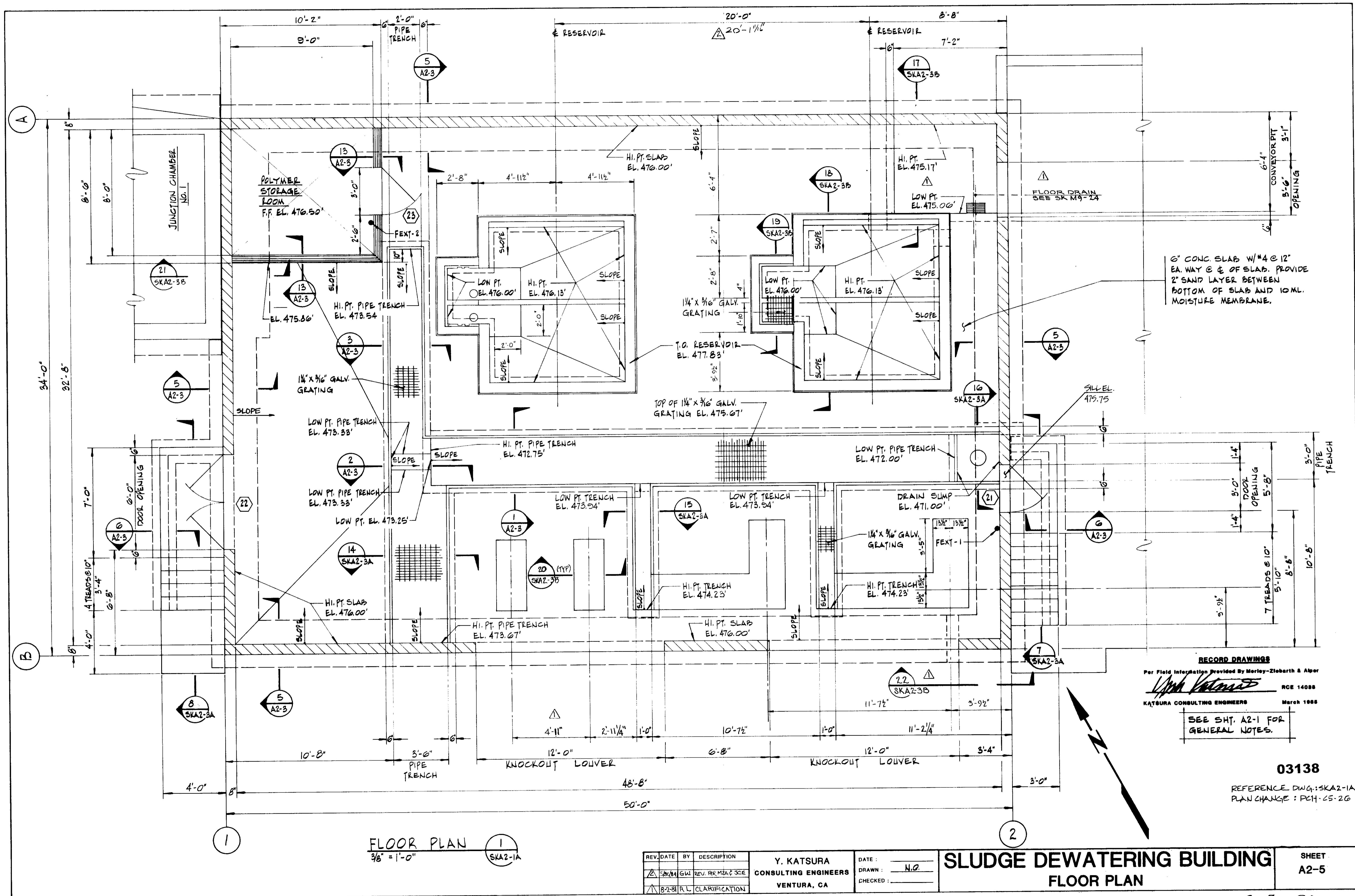
REV	DATE	BY	DESCRIPTION
2	5/3/85	AW	REV. AS PER MZA & JCE
1	5-4-81	R.LEE	COASTAL COMMISSION REV. PART I

SCALE:	As shown	DESIGNED	S. MOON
DRAWN	R. LEE	CHECKED	R. LEE
SUBMITTED	14038	DATE	8/15/79
PROJECT MANAGER	R.C.E. NO.	DATE	
PROJECT ADMINISTRATOR	14894	DATE	8/15/79
	R.C.E. NO.	DATE	

JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 SLUDGE DEWATERING BUILDING
 ARCHITECTURAL ELEVATIONS & DETAILS

SHEET
A2-4



RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper
Y. Katsura
 RCE 14088
 KATSURA CONSULTING ENGINEERS March 1988

SEE SH. A2-1 FOR
 GENERAL NOTES.

03138

REFERENCE DWG.: SKA2-1A
 PLAN CHANGE: PCH-25-26

FLOOR PLAN
 3/8" = 1'-0"

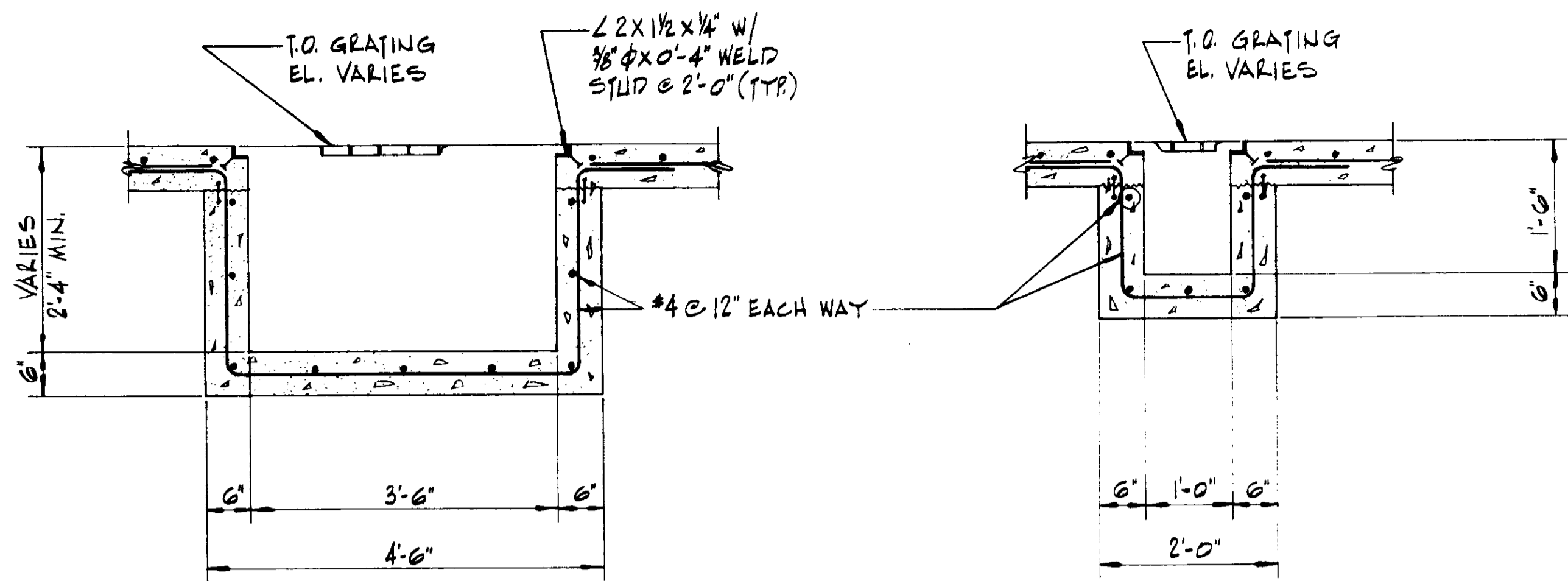
REV.	DATE	BY	DESCRIPTION
1	5/8/84	GW	REV. PER M2A2 JCE
2	8-2-81	R.L.	CLARIFICATION

Y. KATSURA
 CONSULTING ENGINEERS
 VENTURA, CA

DATE: _____
 DRAWN: N.O.
 CHECKED: _____

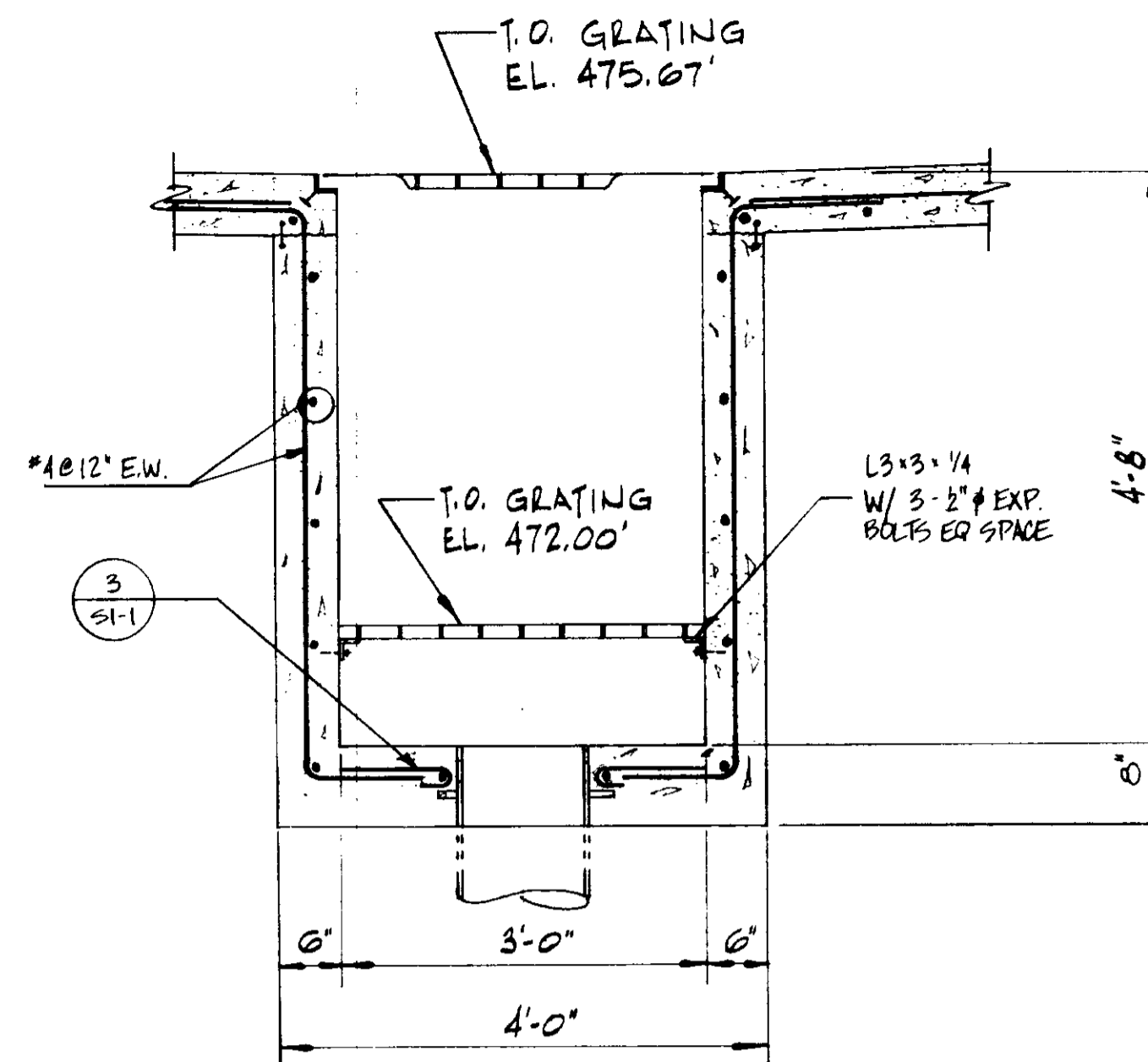
SLUDGE DEWATERING BUILDING
FLOOR PLAN

SHEET
A2-5

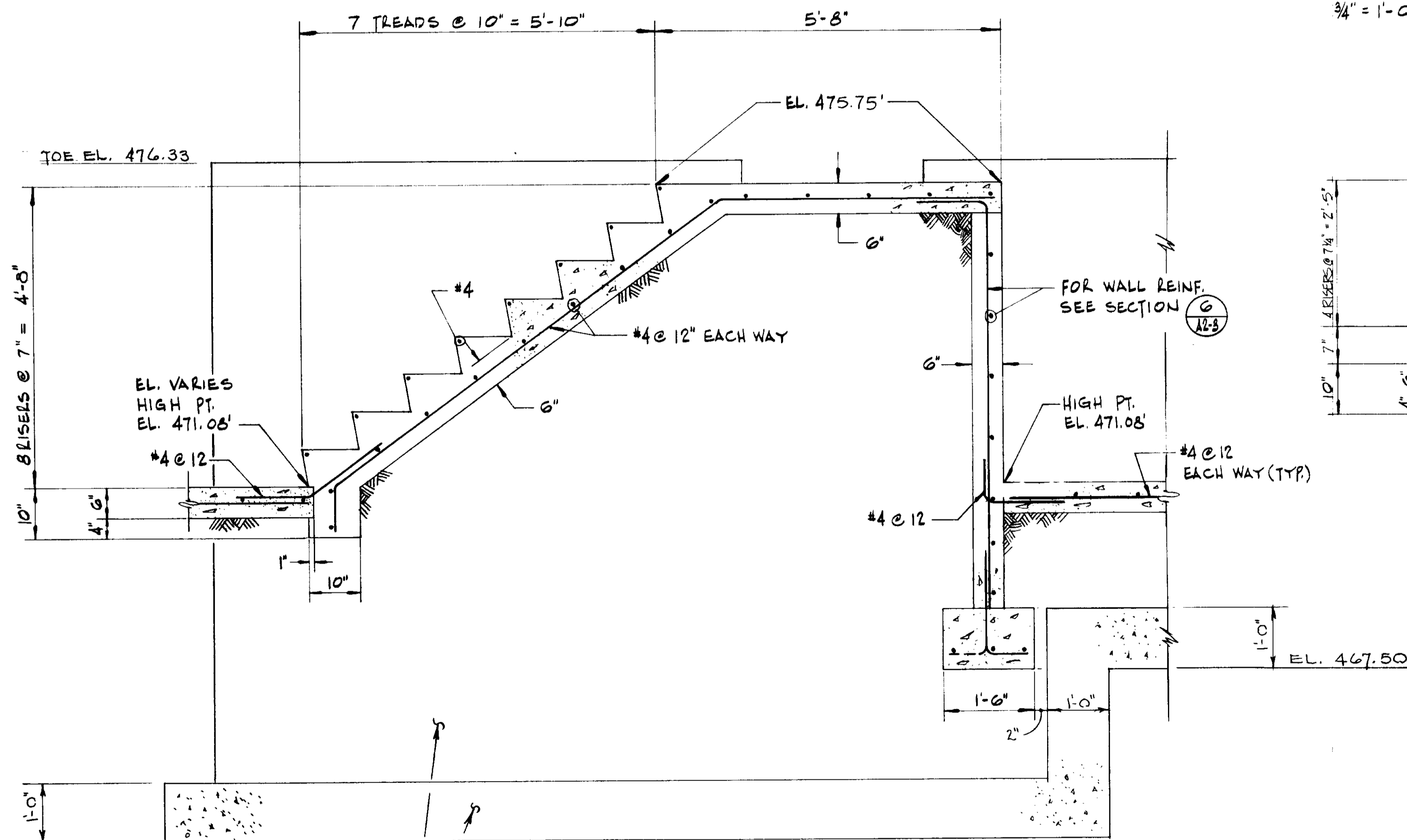


SECTION 14
3/4" = 1'-0"
SKA2-3A

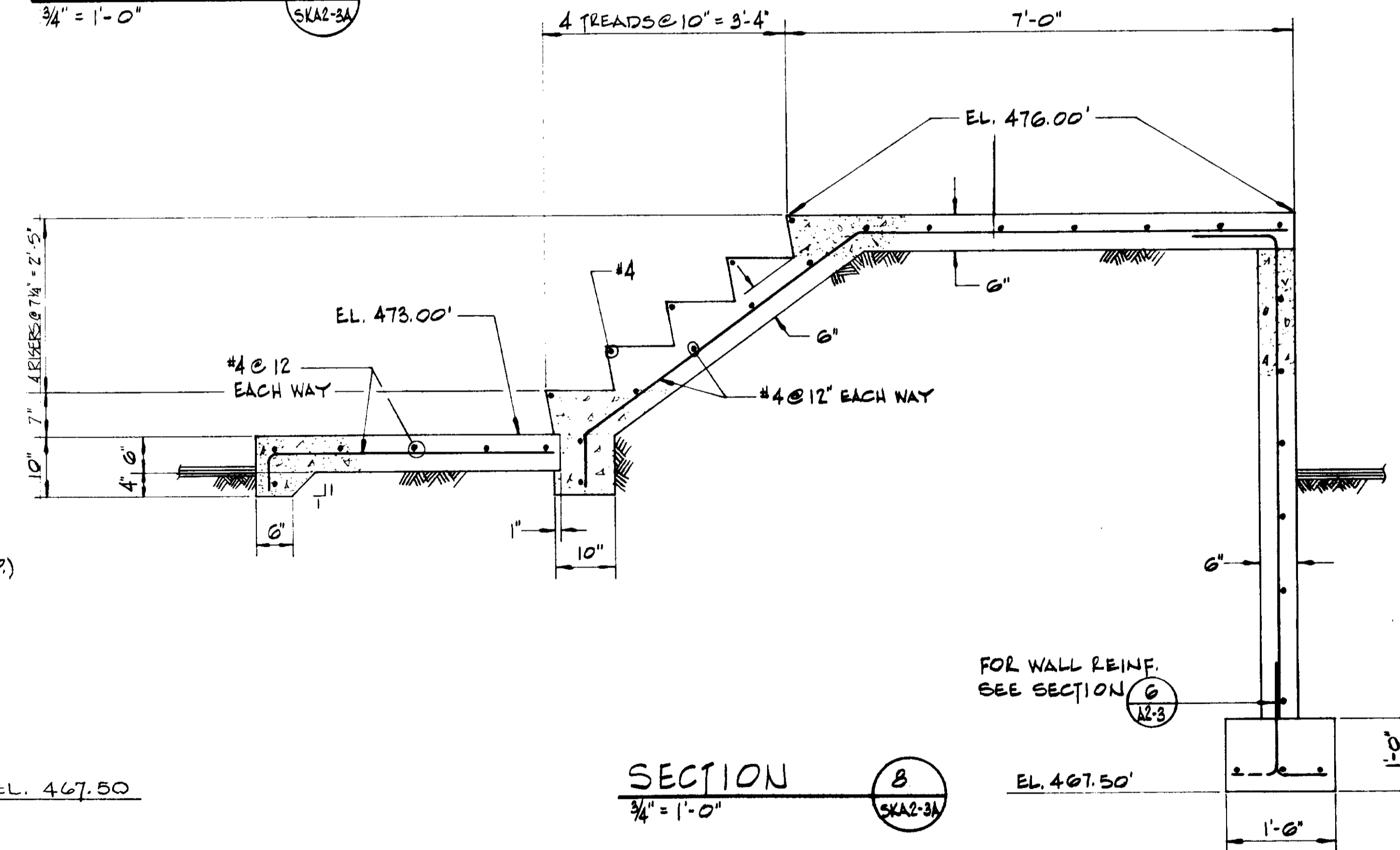
SECTION 15
3/4" = 1'-0"
SKA2-3A



SECTION 16
3/4" = 1'-0"
SKA2-3A



SECTION 7
3/4" = 1'-0"
SKA2-3A



SECTION 8
3/4" = 1'-0"
SKA2-3A

WALL AND FOOTING BEYOND FOR REINFORCING, SEE SECTION 5

03139

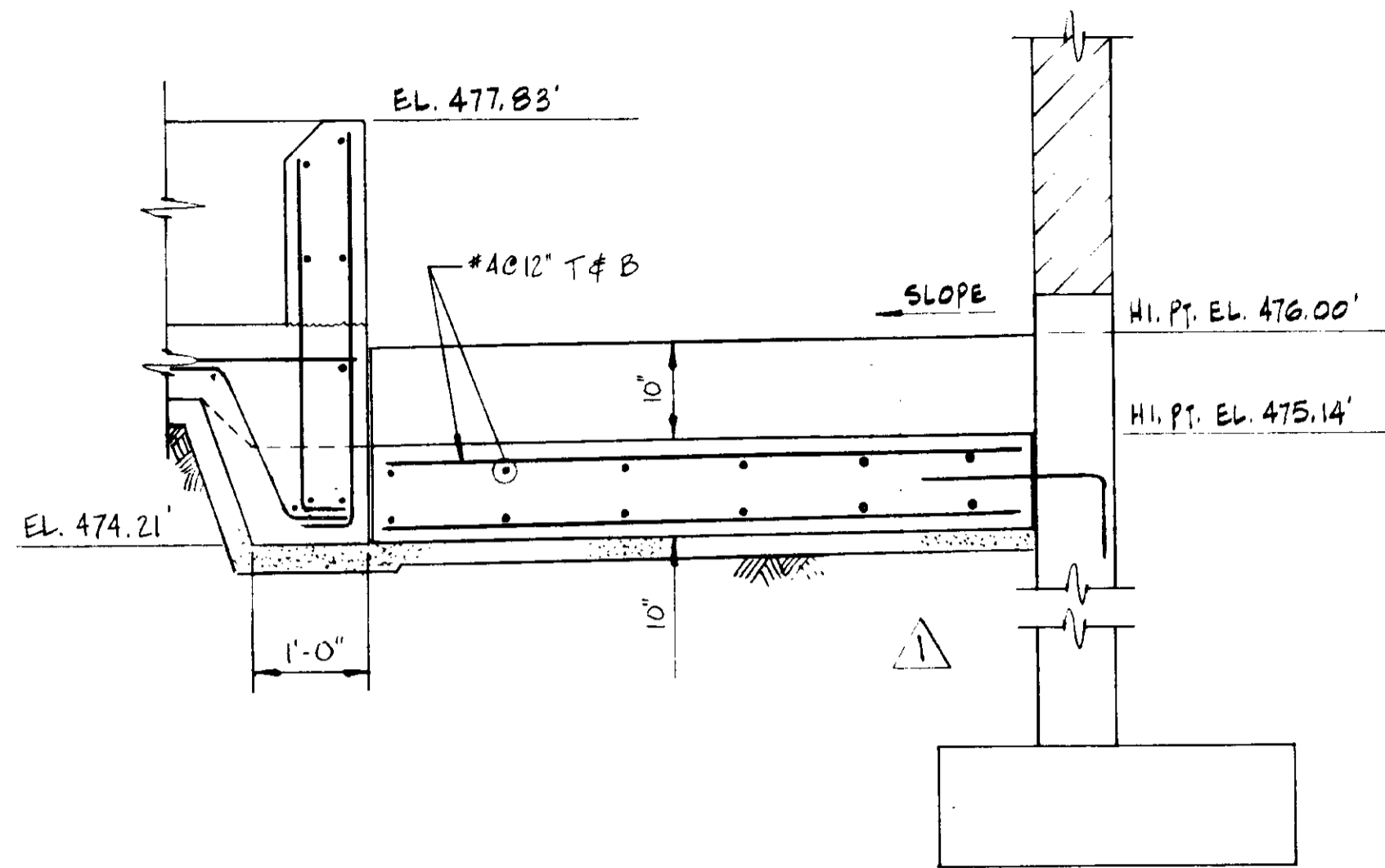
RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
Y. Katsura
KATSURA CONSULTING ENGINEERS
RCE 14098
March 1985

REFERENCE DWG: SKA2-3A
PLAN CHANGE: PCH-C5-26

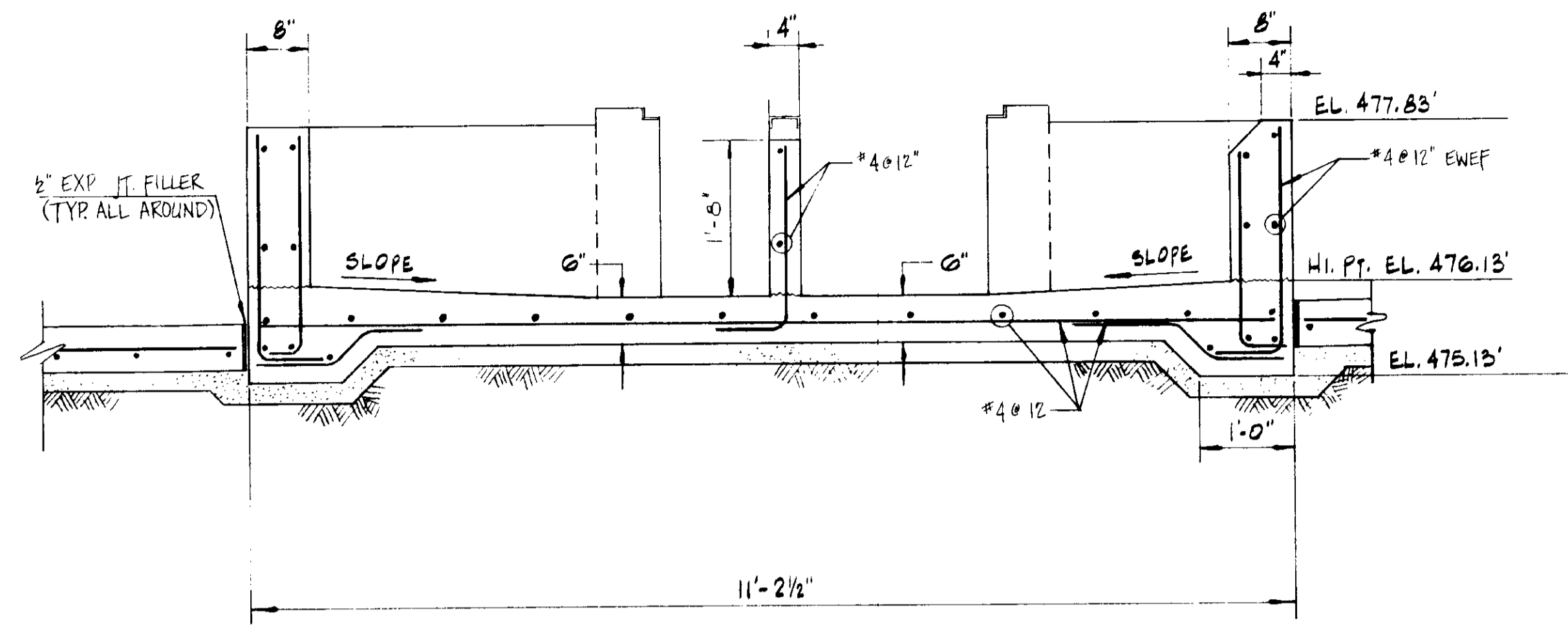
REV.	DATE	BY	DESCRIPTION	Y. KATSURA CONSULTING ENGINEERS VENTURA, CA	DATE: _____ DRAWN: <u>Ho</u> CHECKED: _____
1	8-4-81	RL	CLARIFICATION		

SLUDGE DEWATERING BUILDING
SECTIONS & DETAILS

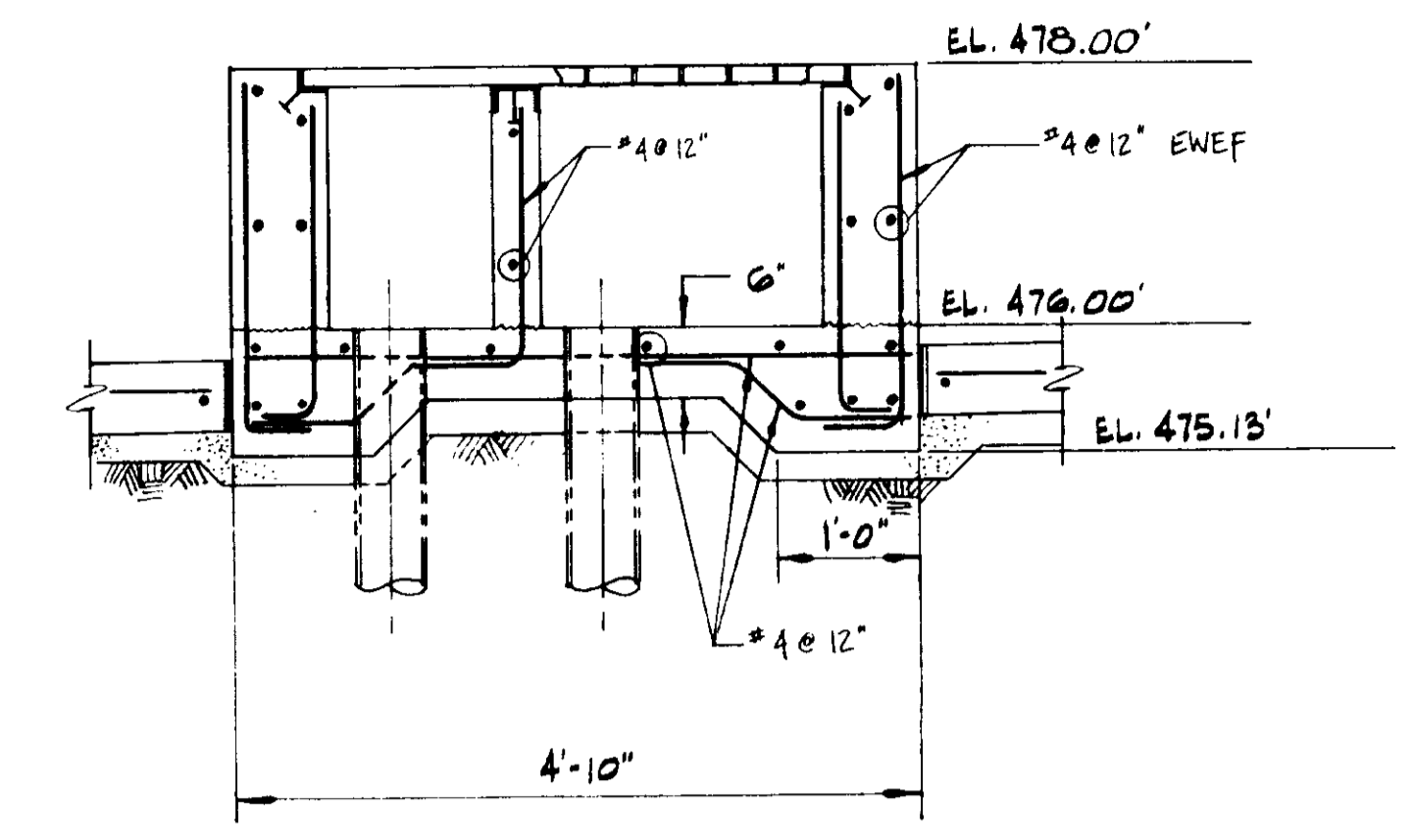
SHEET
A2-6



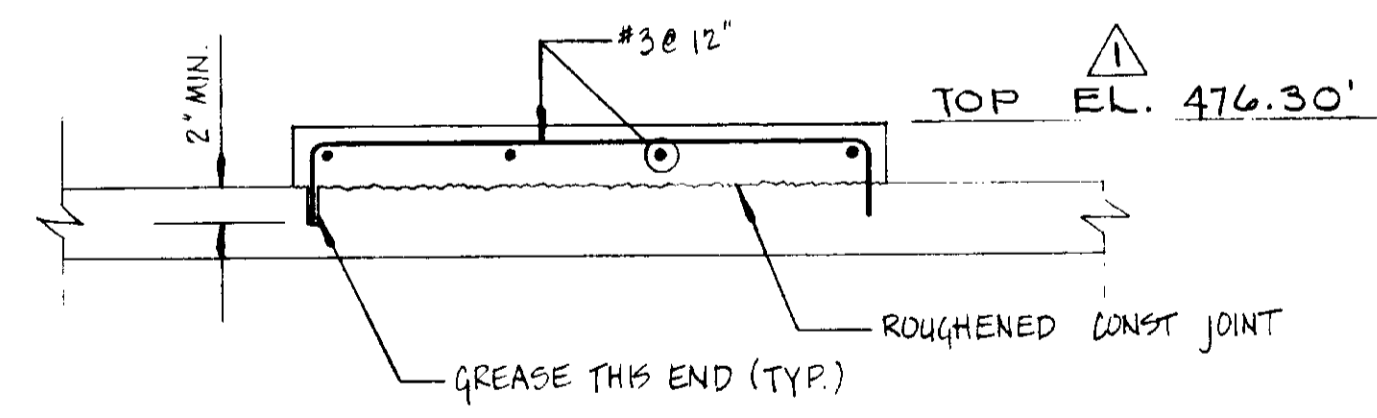
SECTION 17
SCALE: 3/4" = 1'-0"



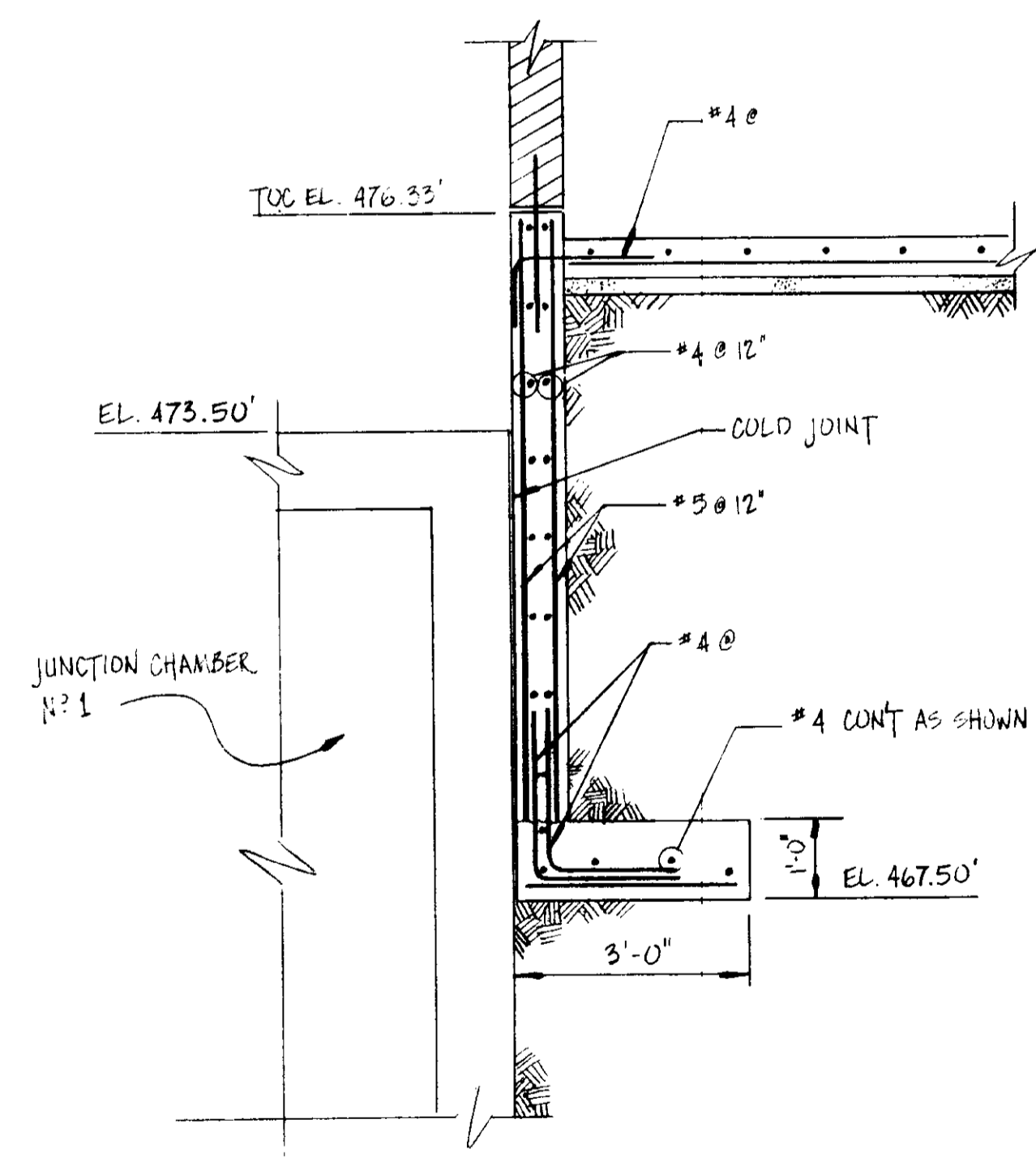
SECTION 18
SCALE: 3/4" = 1'-0"



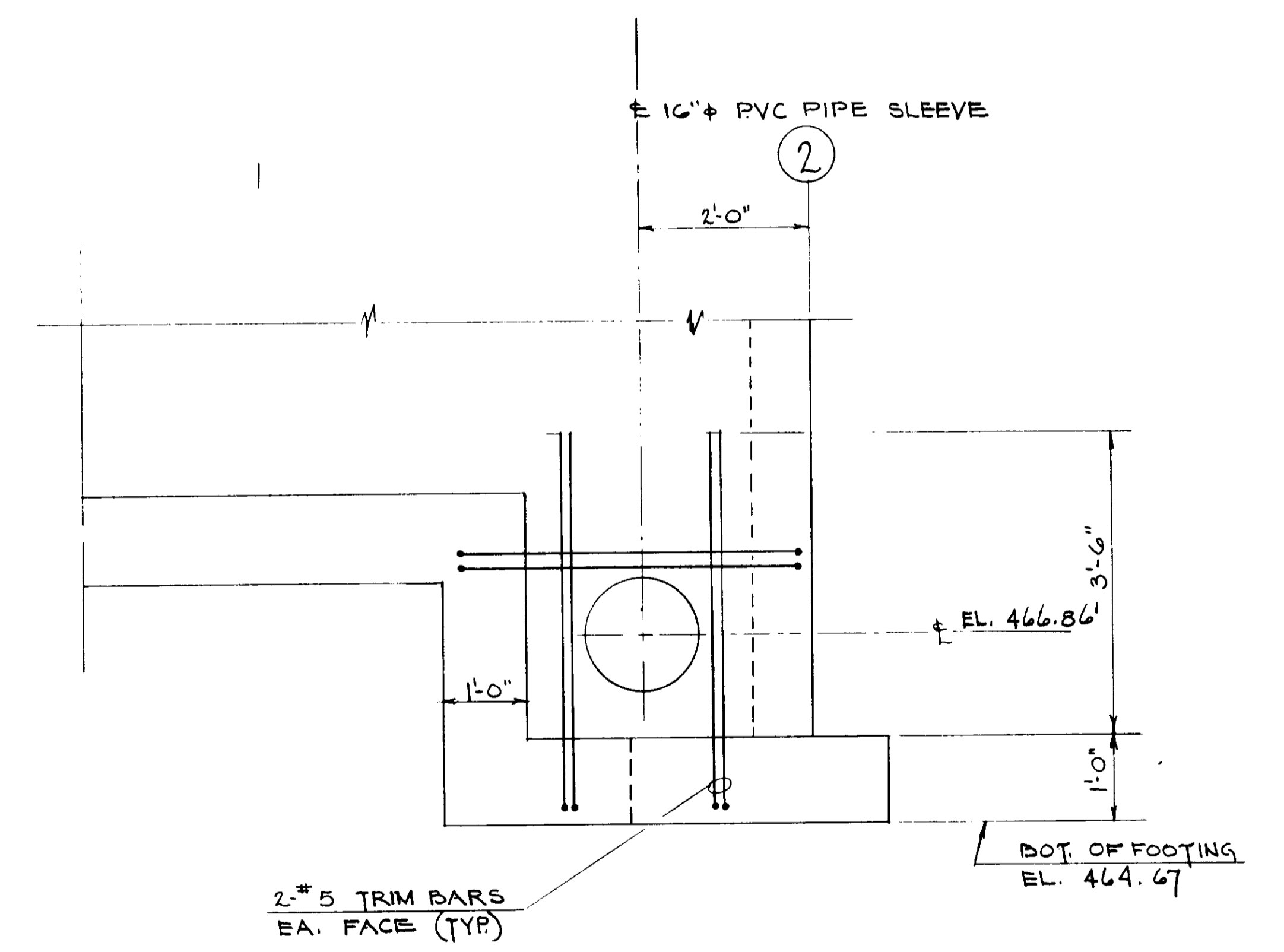
SECTION 19
SCALE: 3/4" = 1'-0"



TYPICAL PUMP PAD REINF. 20
SCALE: 1" = 1'-0"



SECTION 21
SCALE: 1/2" = 1'-0"

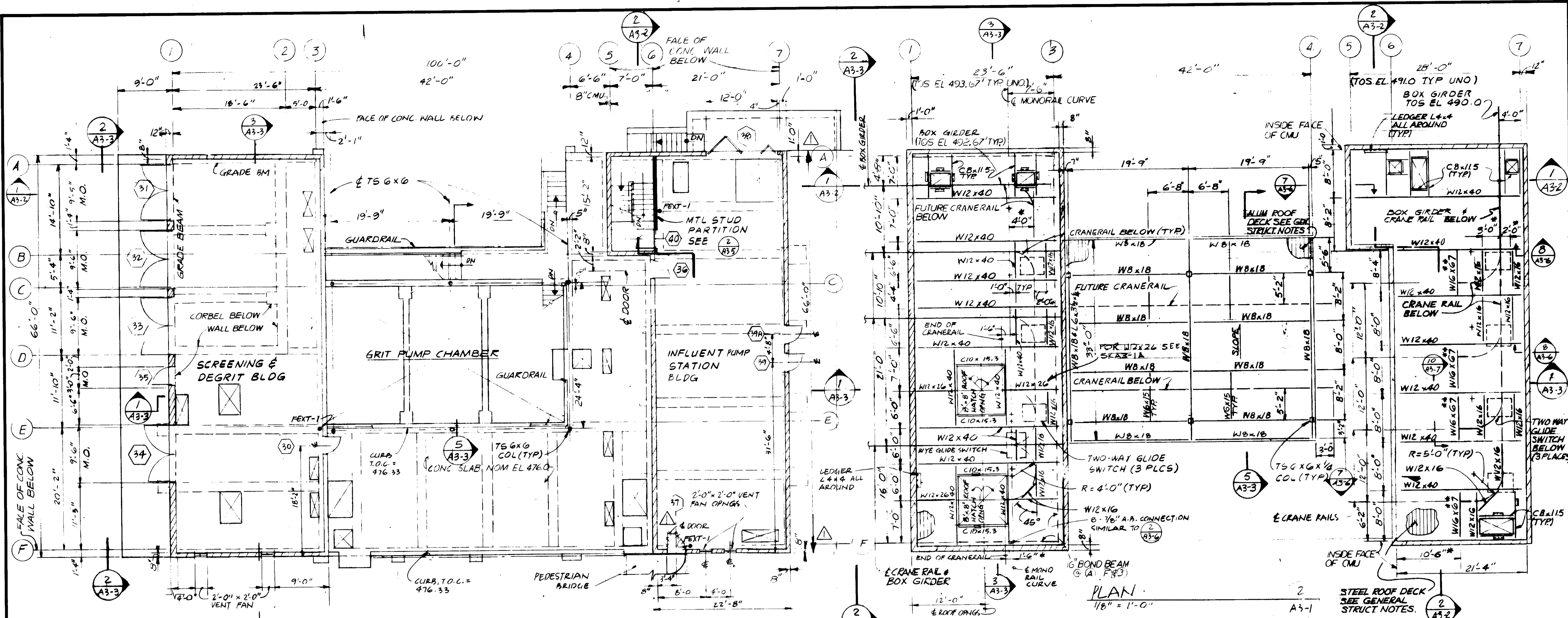


SECTION 22
SCALE: 3/4" = 1'-0"

RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
[Signature]
RCE 14038
KATSURA CONSULTING ENGINEERS March 1985

03140
REFERENCE DWG.: SKAZ-3B
PLAN CHANGE: PCH-C5-26

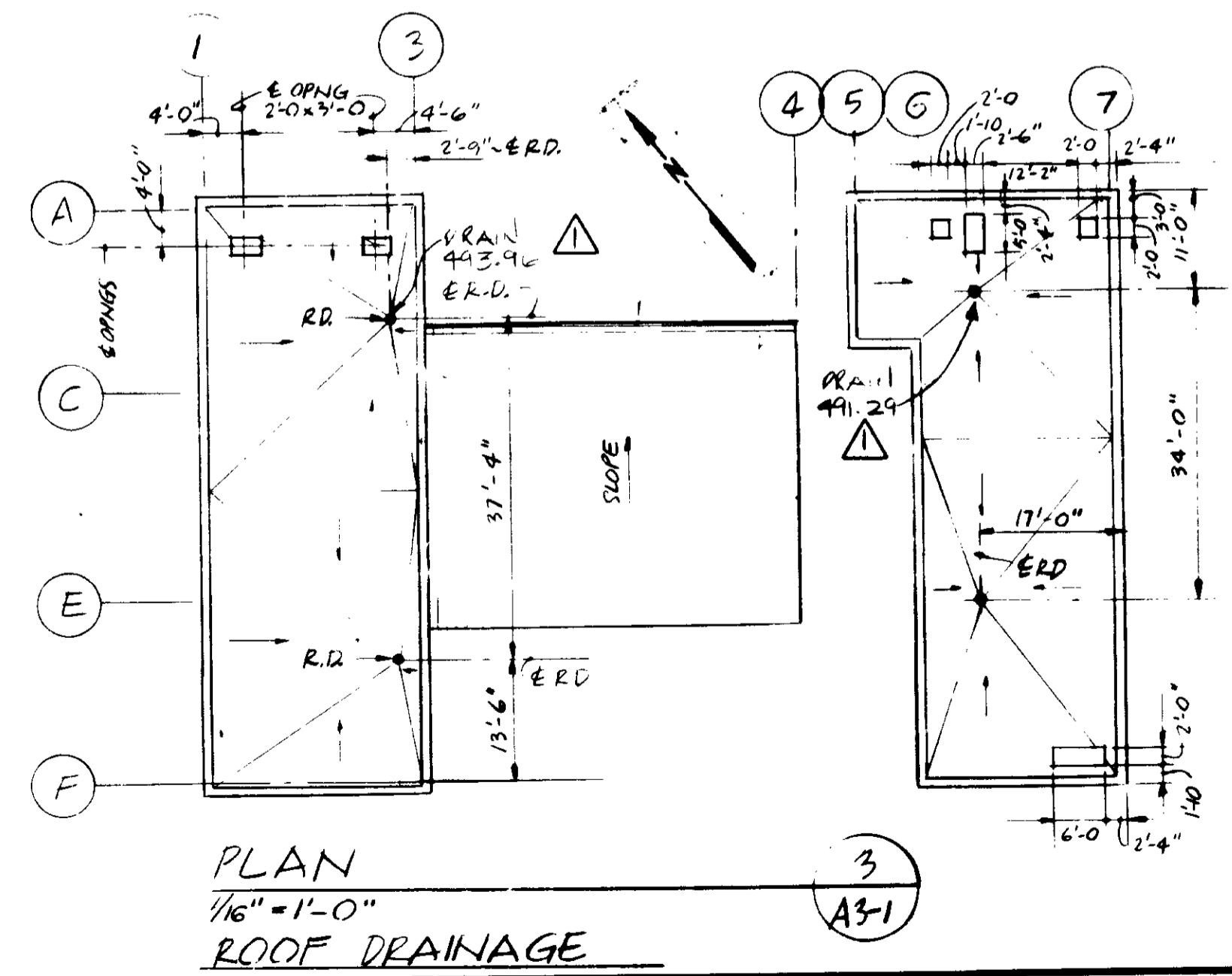
REV.	DATE	BY	DESCRIPTION	Y. KATSURA CONSULTING ENGINEERS VENTURA, CA	DATE: DRAWN: CHECKED:	SLUDGE DEWATERING BUILDING SECTIONS & DETAILS	SHEET A2-7
1	8-48	RL	CLARIFICATION				



FLOOR PLAN
 1/8" = 1'-0"
ABOVE GRADE STRUCTURES AT HEADWORKS

- NOTES:**
- SEE DWG. SI-1 TO SI-4 FOR GENERAL NOTES AND TYPICAL DETAILS.
 - SYMBOL * DENOTES DIMENSION TO BE VERIFIED W/MFR.
 - CRANE RAILS AND GLIDE SWITCHES SHALL BE AS MFR'D BY AMERICAN MONORAIL OR EQUAL, SEE SPECS.
 CRANE RAILS SHALL BE 325 H SERIES, RAIL NO. 0113-122-4 (DEPTH 12 3/16" x BOTTOM FLANGE 3 3/4") EXCEPT THAT CRANE RAILS IN GRIT PUMP BUILDING SHALL BE 325L SERIES RAIL NO. 0110-081-4 (DEPTH 8 1/2" x BOTTOM FLANGE 3 3/4") SPANS BETWEEN CRANE SHALL BE 18'-0" MAX. OR AS SHOWN ON DRAWINGS. CRANE RAILS AND GLIDE SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH MFR'S SPECIFICATIONS. CRANERAIL MANUFACTURER SHALL PROVIDE SUPPORTS FOR GLIDE SWITCHES AND RAIL AT CURVES AS REQUIRED.
 - ** FOR T.O.S. EL. SEE SECTIONS
 - SEE S2 DWGS FOR STRUCTURE BELOW GRADE
 - SEE MM DWGS FOR MISCELLANEOUS MTL ITEMS
 - VERIFY ALL EQUIPMENT OPNGS & SUPPORT DIMENSIONS WITH MECHANICAL DWGS & EQUIPMENT MANUFACTURER.
 - SEE M5 DWGS FOR EXTENT & TYPE OF GUARDRAILS.

ROOF FRAMING
 1/8" = 1'-0"

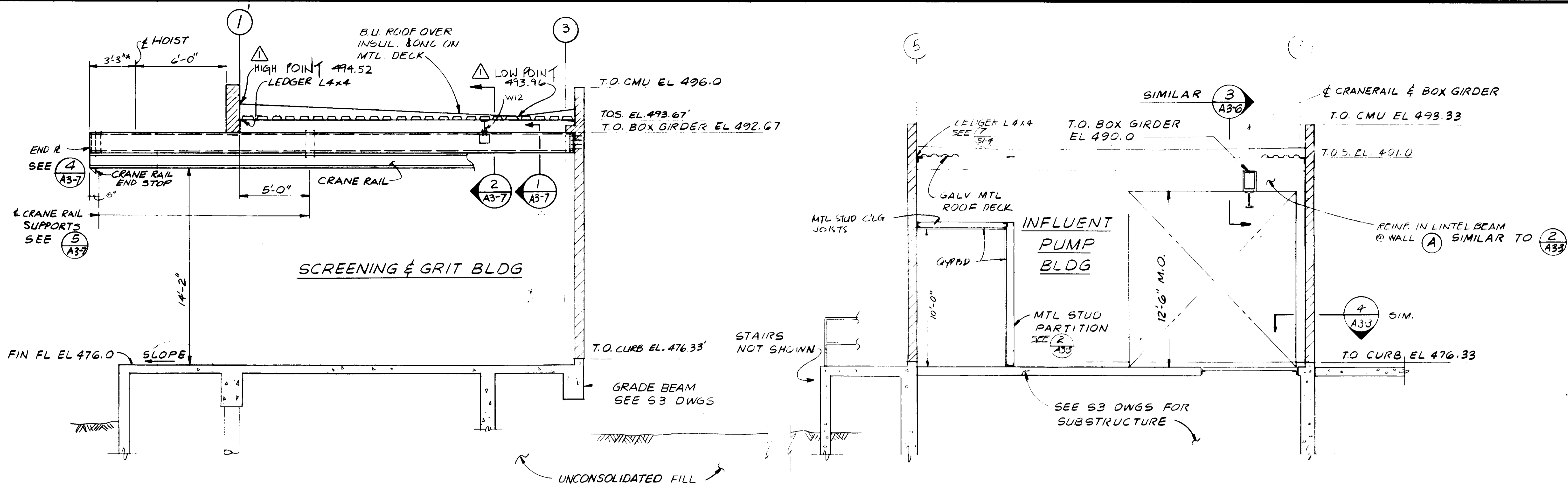


PLAN
 1/16" = 1'-0"
ROOF DRAINAGE

03141

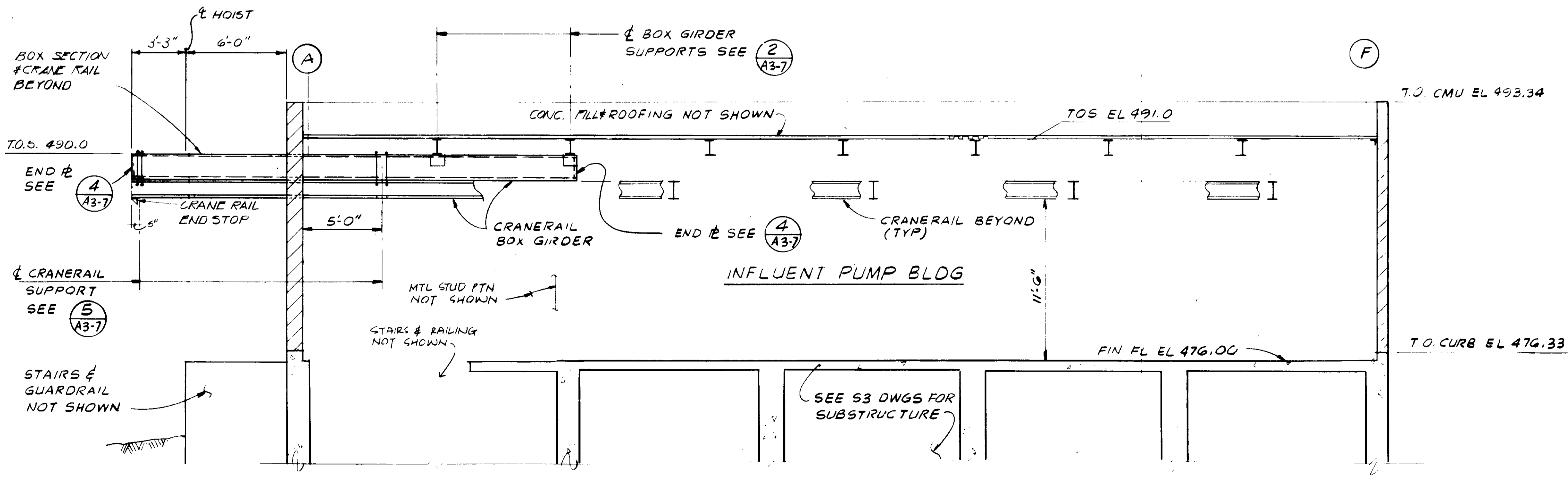
RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziobarth & Alper
[Signature] RCE 14088
 KATSURA CONSULTING ENGINEERS March 1988
 1/8" = 1'-0" scale
 GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

SCALE: AS SHOWN DESIGNED: PMS DRAWN: AKI CHECKED:		SUBMITTED: <i>[Signature]</i> 14038 11-5-79 PROJECT MANAGER: R.C.E. NO. DATE PROJECT ADMINISTRATOR: <i>[Signature]</i> 14894 11-5-79 R.C.E. NO. DATE		J&K CONSULTING ENGINEERS A JOINT VENTURE 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 932-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. BUILDINGS & WEATHER COVER AT HEADWORKS - PLANS		SHEET A3-1
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	



SECTION 1
1/4" = 1'-0" (A3-2)

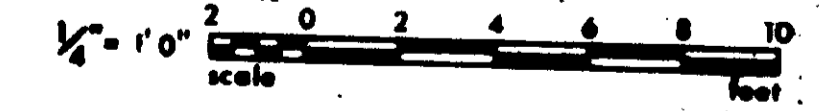
ABOVE GRADE STRUCTURES @ HEADWORKS



SECTION 2
1/8" = 1'-0" (A2-2)

NOTES:
1. ALL BOX GIRDERS & CRANE RAILS SHALL RECEIVE PAINT FINISH. SEE SPECS

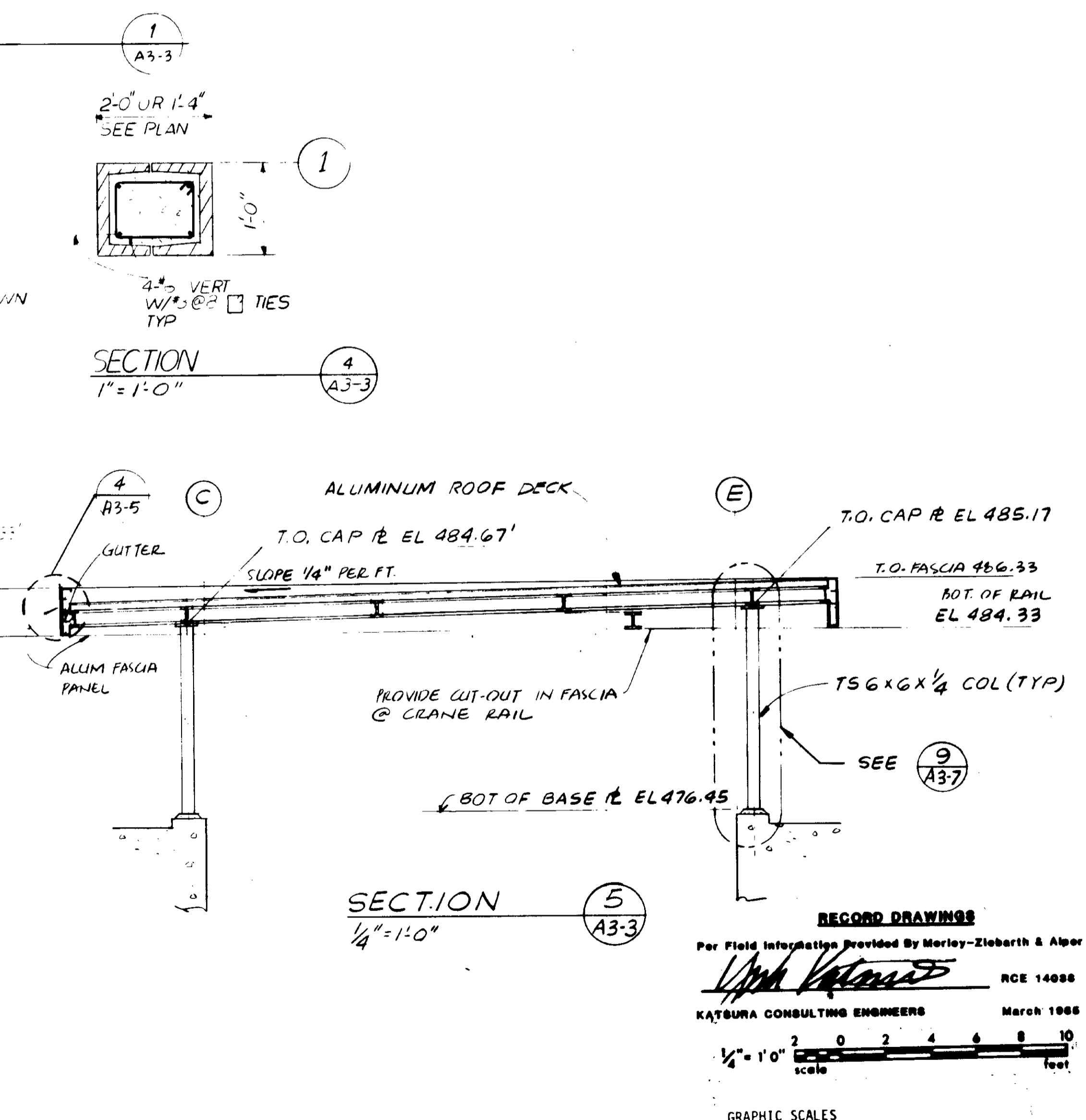
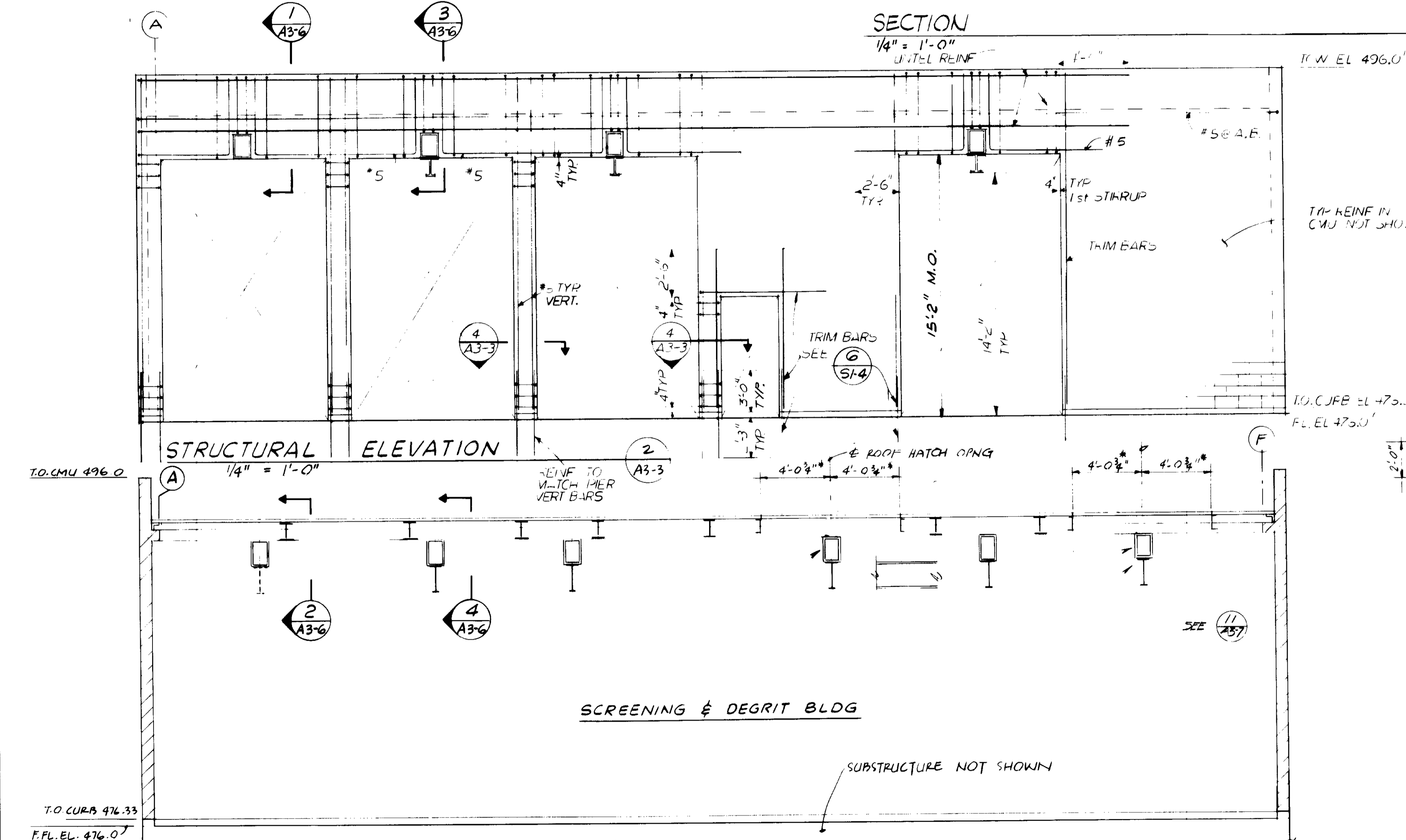
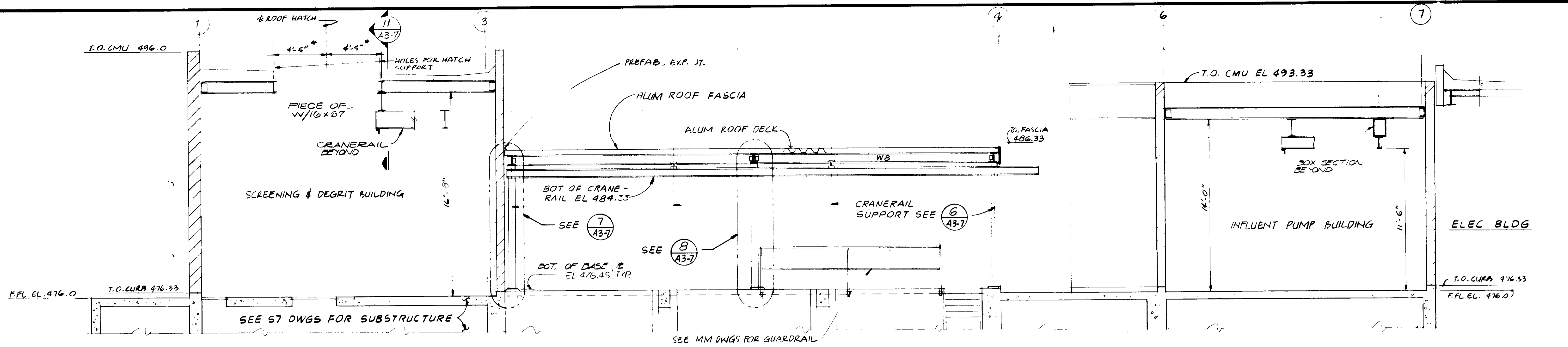
RECORD DRAWINGS
Per Field Information Provided By Morley-Ziebarth & Alper
[Signature] RCE 14038
KATSURA CONSULTING ENGINEERS March 1988



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03142

REV DATE BY DESCRIPTION		REV DATE BY DESCRIPTION		SCALE : AS SHOWN	LT DESIGNED PWS DRAWN PRP CHECKED	SUBMITTED <i>[Signature]</i> 14038 11-5-77 PROJECT MANAGER R.C.E. NO. DATE <i>[Signature]</i> 14894 11-5-79 PROJECT ADMINISTRATOR R.C.E. NO. DATE	JKS CONSULTING ENGINEERS A JOINT VENTURE 8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 933-9117	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. BUILDINGS & WEATHER COVER AT HEADWORKS - GENERAL SECTIONS	SHEET A3-2
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RECORD DRAWINGS
 Per Field Information Provided by Morley-Ziebarth & Alper
Mark Valenzuela RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988
 1/4" = 1'-0" scale
 GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03143

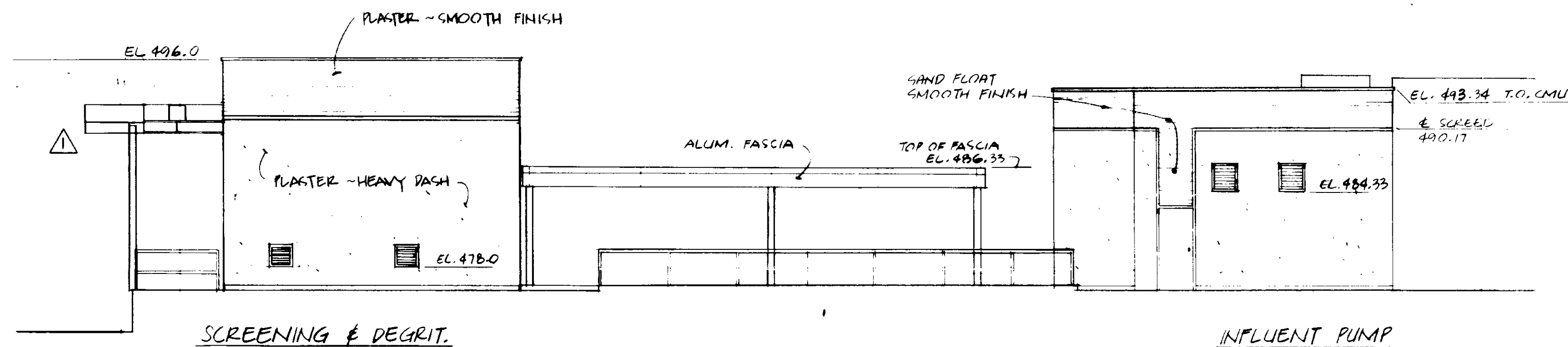
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	DESIGNED: <i>LT IACC</i>	SUBMITTED: <i>14038 11-5-79</i>
DRAWN: <i>REP</i>	CHECKED: <i>REP</i>	PROJECT MANAGER: <i>14038 11-5-79</i>
		PROJECT ADMINISTRATOR: <i>14038 11-5-79</i>

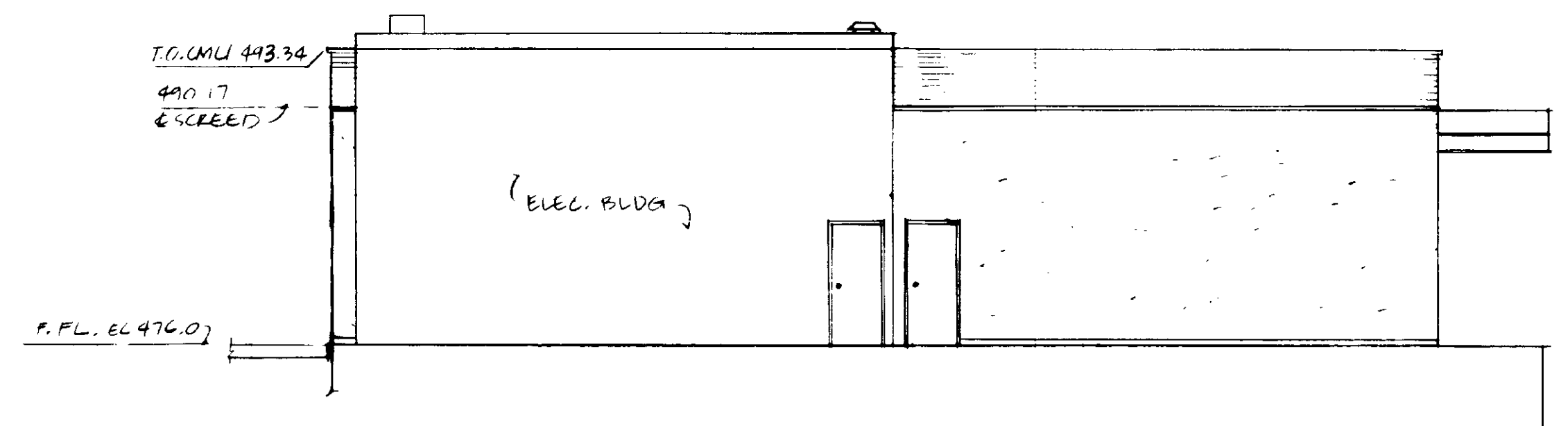
JK CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 BUILDINGS & WEATHER COVER AT HEADWORKS
 GENERAL SECTIONS

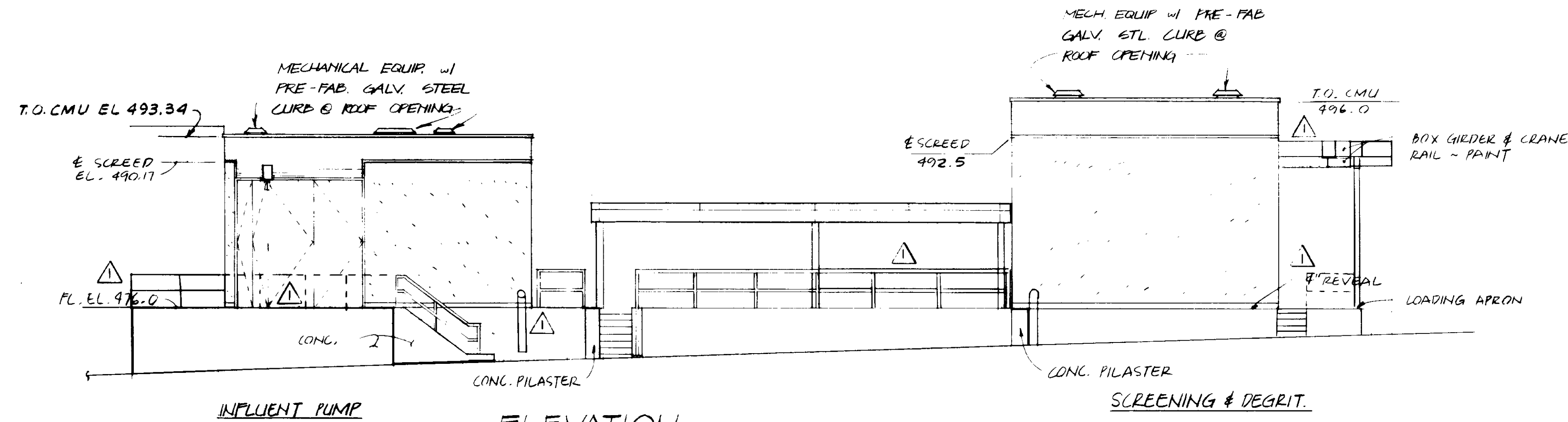
SHEET **A3-3**



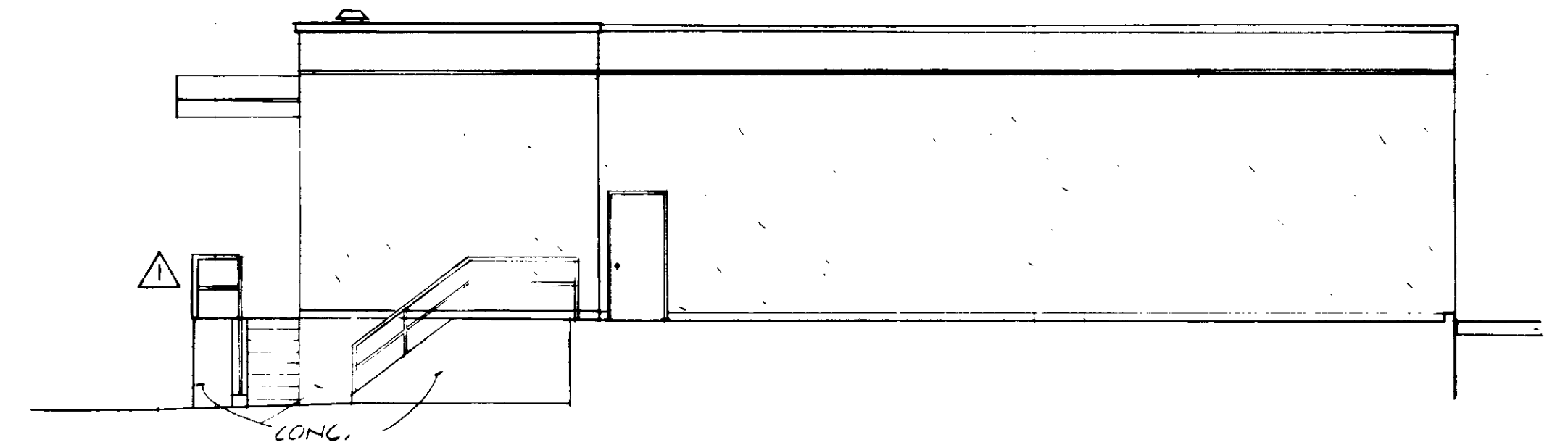
ELEVATION
1/8" = 1'-0"
SOUTH WALLS
A3-4



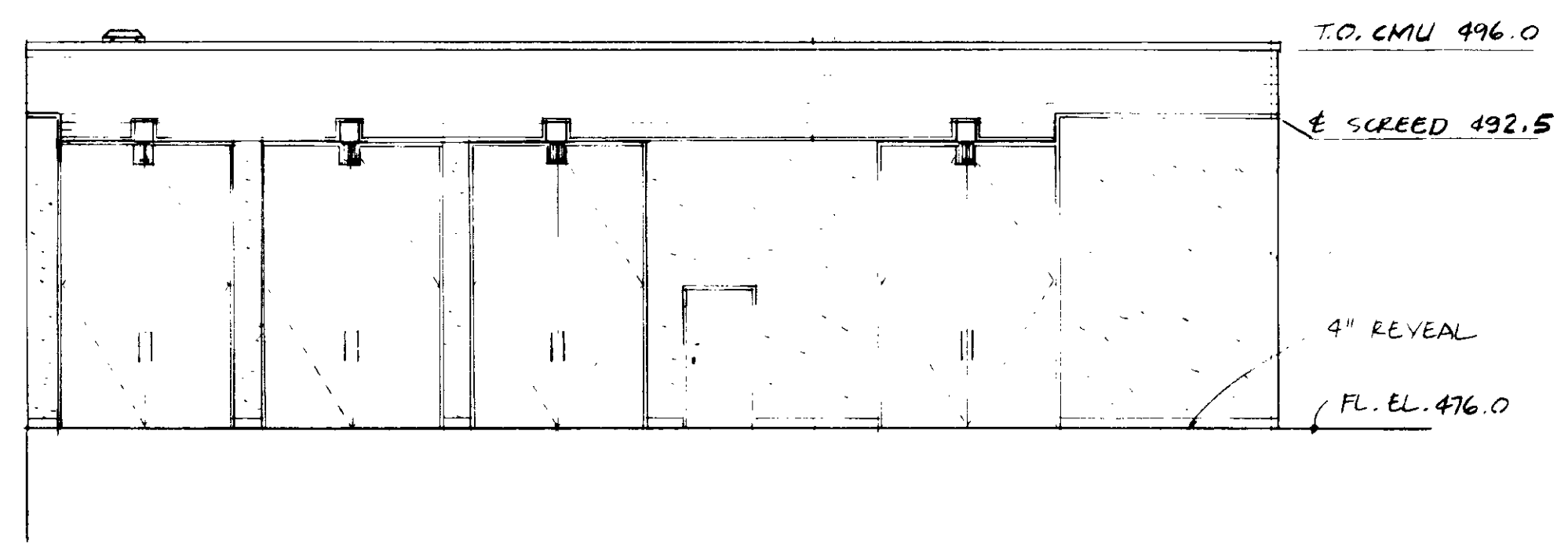
ELEVATION
1/8" = 1'-0"
EAST WALL ~ INFLUENT PUMP
A3-4



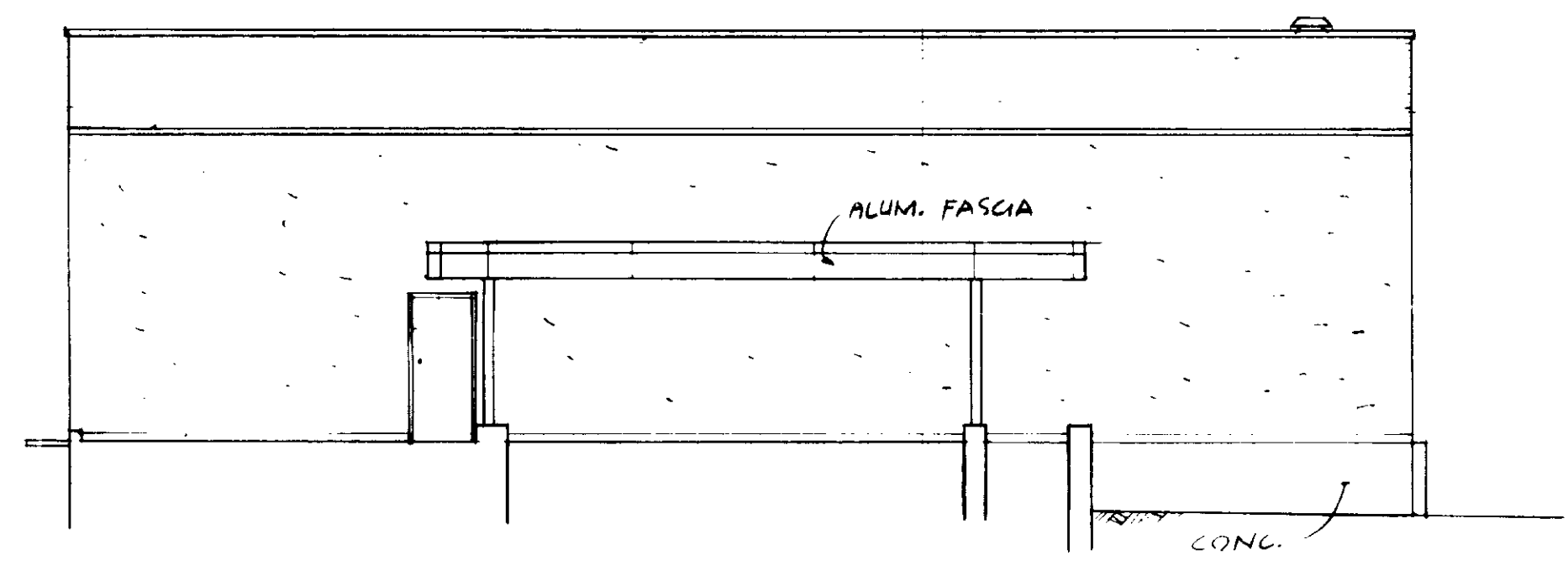
ELEVATION
1/8" = 1'-0"
NORTH WALLS
A3-4



ELEVATION
1/8" = 1'-0"
WEST WALL ~ INFLUENT PUMP
A3-4



ELEVATION
1/8" = 1'-0"
WEST WALL ~ SCREENING & DEGRIT. BLDG
A3-4



ELEVATION
1/8" = 1'-0"
EAST WALL ~ SCREENING & DEGRIT. BLDG
A3-4

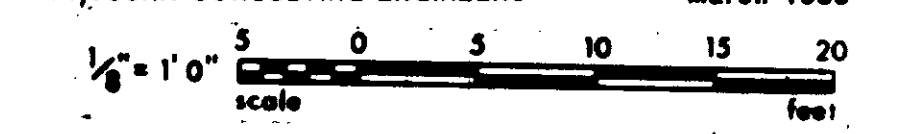
△ BOX GIRDERS, BEAMS & COLMS NOT SHOWN

- NOTES:
- SEE SHT. A1-1 & A1-2 FOR TYPICAL ARCH. DETAILS & DOOR & FINISH SCHEDULES.
 - ALL EXPOSED CONC. SHALL BE FINISHED SMOOTH
 - DIMENSIONS SHOWN ON PLANS ARE NOMINAL FACE OF STRUCTURE DIMENSIONS.
 - VERIFY OPNGS FOR PIPES & VENT FANS WITH 'M' DWGS AND 'AM' DWGS

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

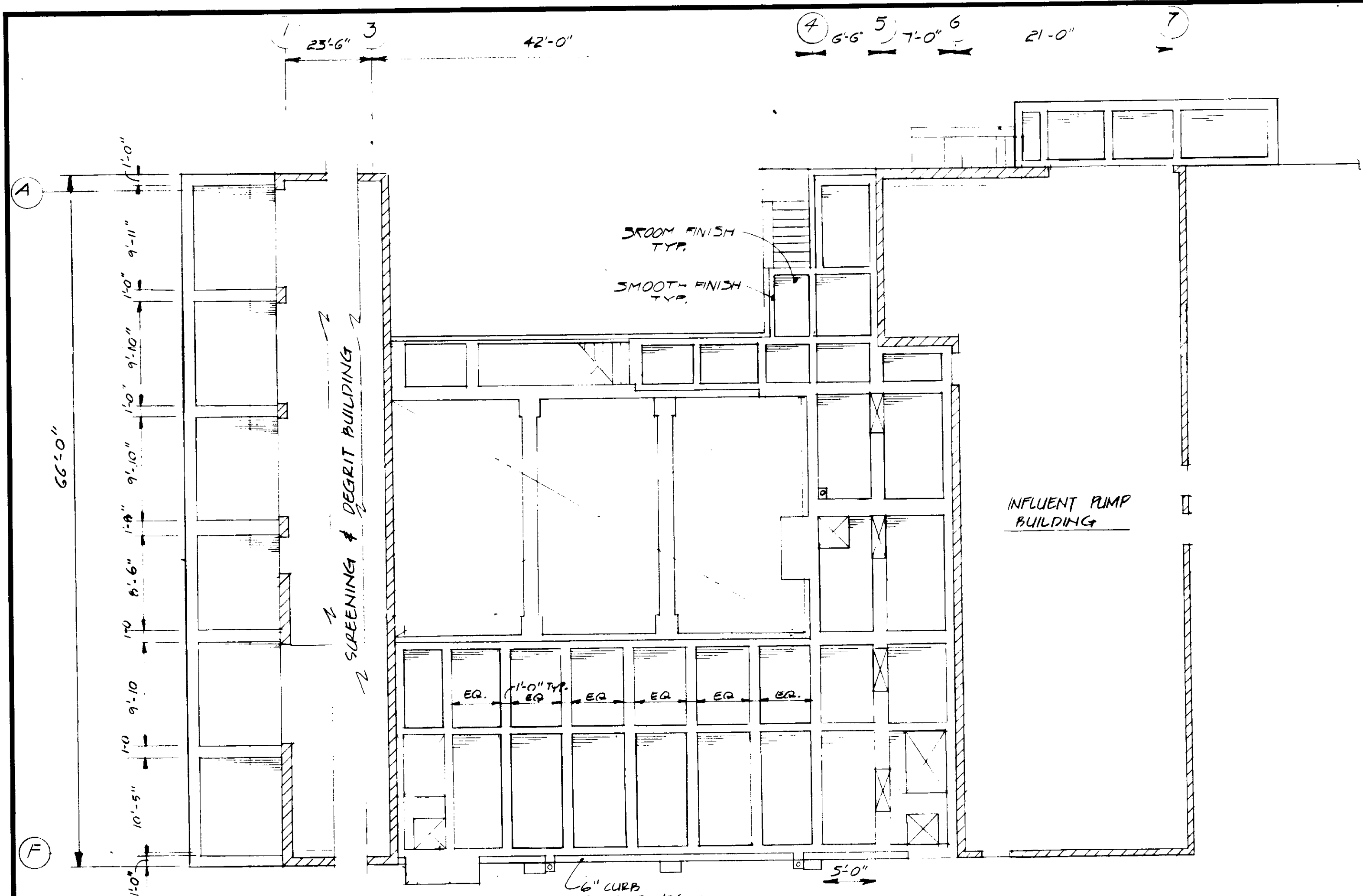
Vicki Valenzuela RCE 14088
KATBURA CONSULTING ENGINEERS March 1988



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

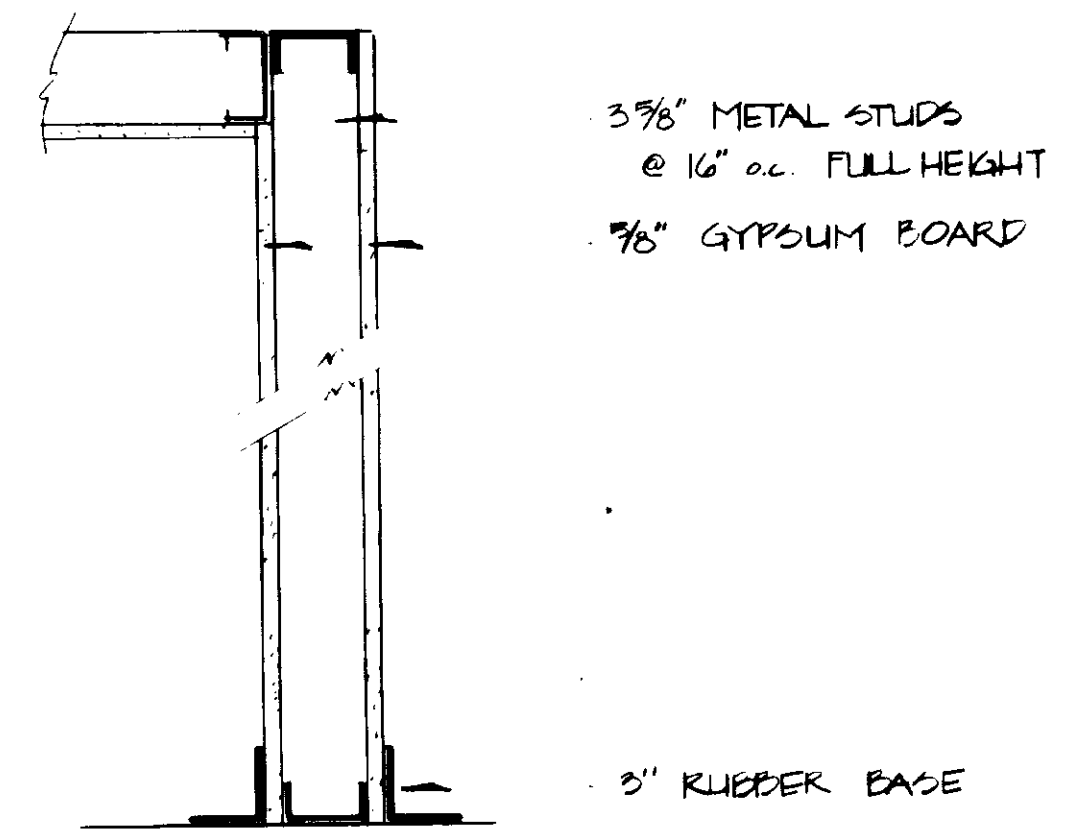
03144

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	SCALE:	DESIGNED:	DRAWN:	CHECKED:	SUBMITTED:	PROJECT MANAGER:	PROJECT ADMINISTRATOR:	CONSULTING ENGINEERS:	LAS VIRGENES MUNICIPAL WATER DISTRICT:	SHEET:
								AS SHOWN	ALL	ALL		<i>Vicki Valenzuela</i>	<i>Smith/Under</i>	JKE	BUILDINGS & WEATHER COVER AT HEADWORKS	A3-4	
															ARCHITECTURAL ELEVATIONS		

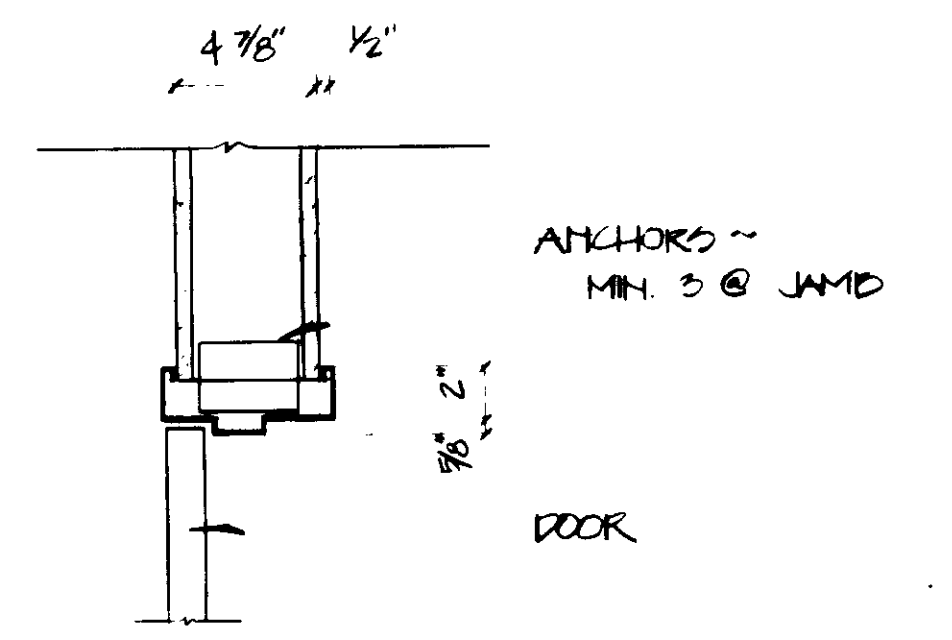


NOTE: SEE S2 DWGS FOR DRAINAGE, CURB CUTS & OPNGS.
SEE M5 DWGS FOR EXTENT & TYPE OF GUARDRAILS

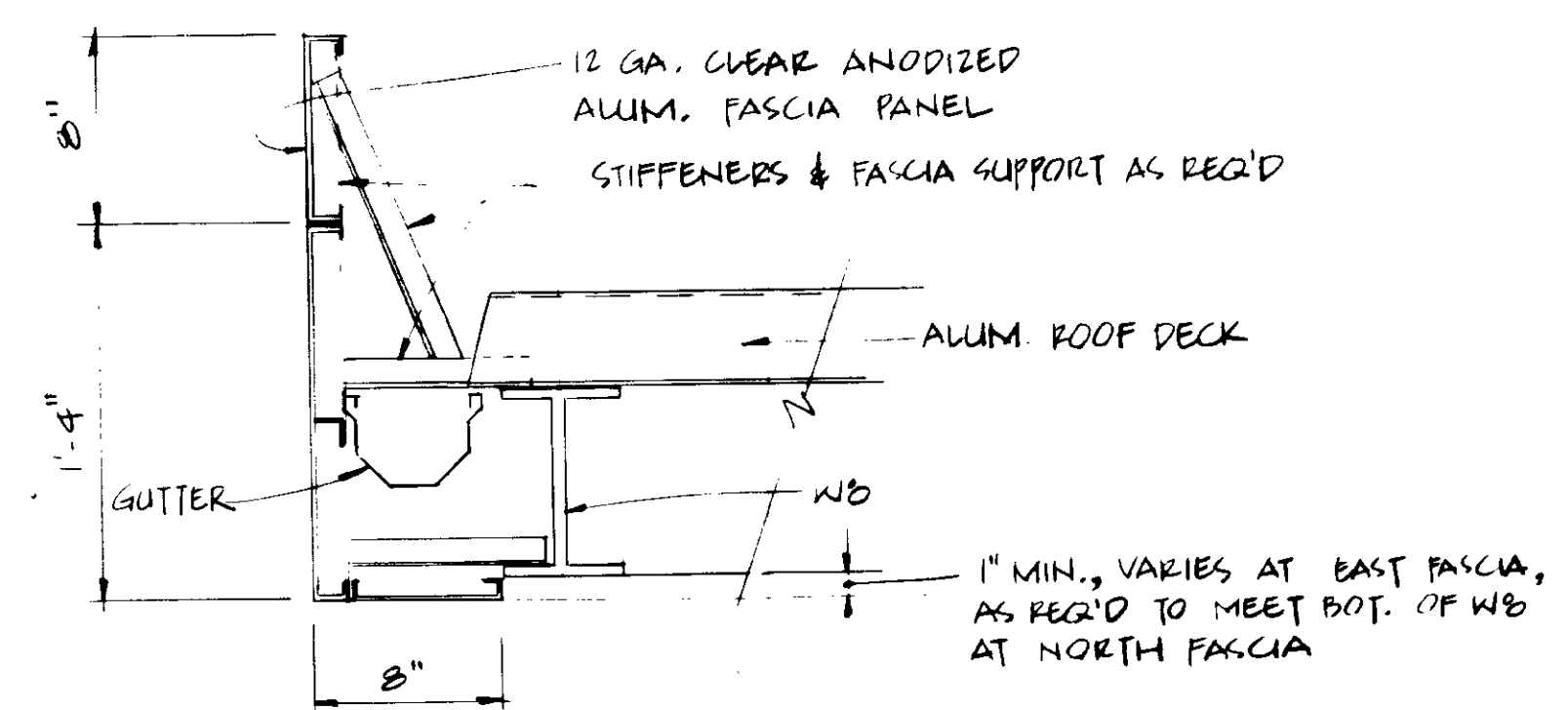
PLAN
1/8" = 1'-0"
PAVING PATTERN



DETAIL
1/2" = 1'-0"
STUD WALL @ INFLUENT PUMP STATION



DETAIL
1/2" = 1'-0"
HEAD/JAMB-HM FRAME



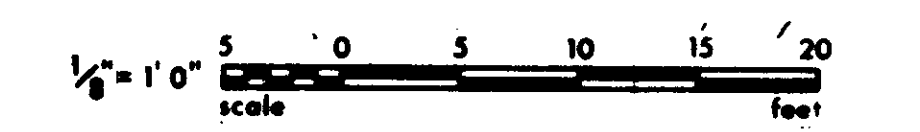
NOTE: SEE ELEVATIONS FOR LOCATING VERTICAL JOINTS

DETAIL
1/2" = 1'-0"
ALUMINUM FASCIA @ WEATHERCOVER

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

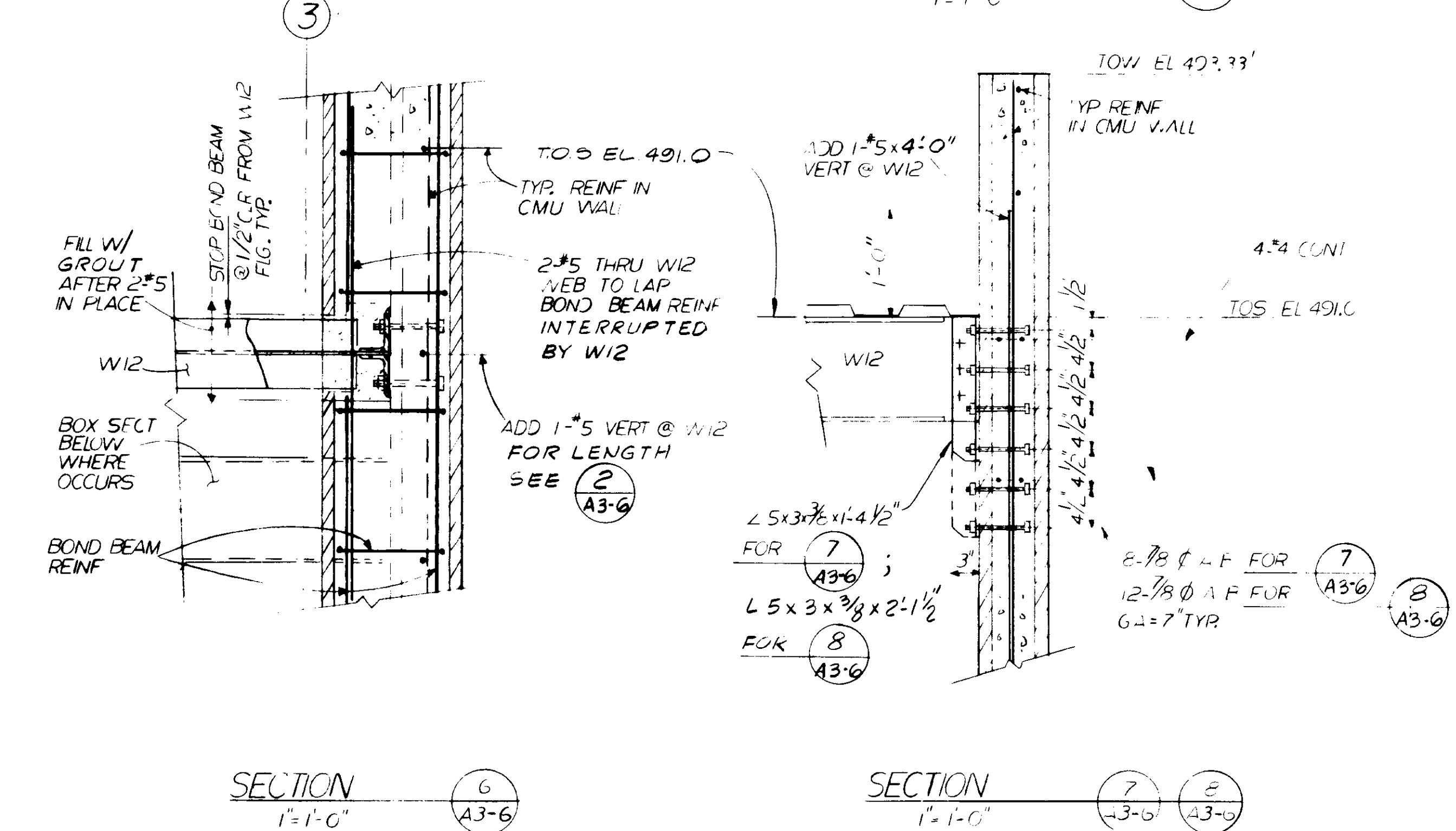
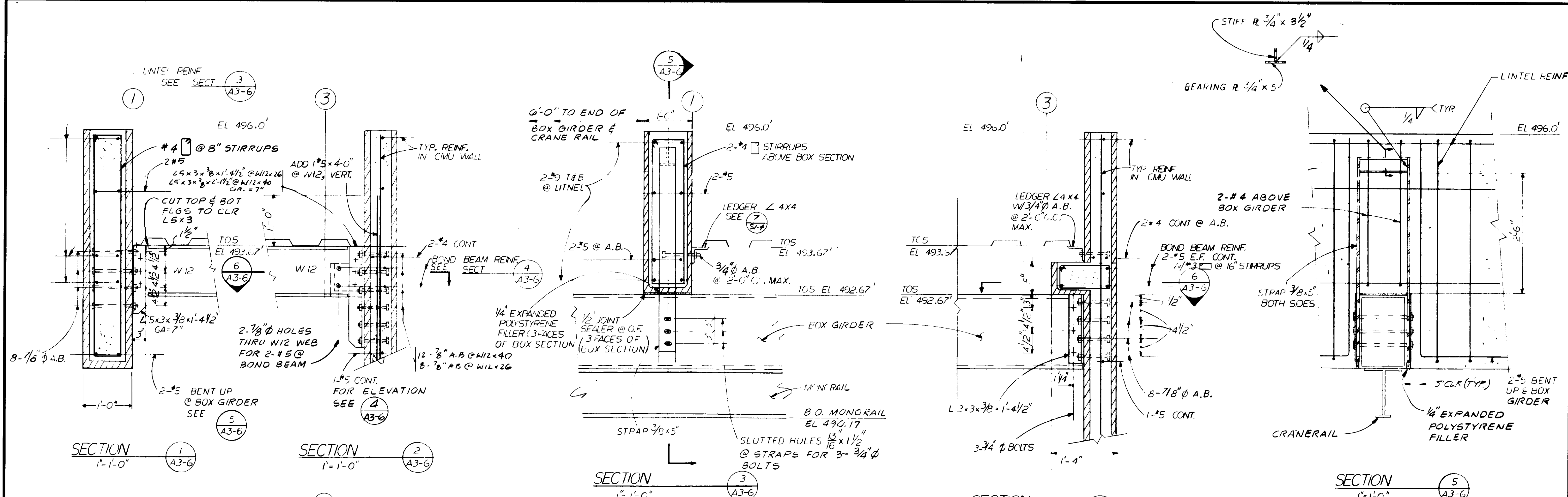
Yuh Katsura RCE 14088
KATSURA CONSULTING ENGINEERS March 1986



GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION.
SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03145

SCALE: AS SHOWN DESIGNED: <i>PC/SH</i> DRAWN: <i>ARP</i> CHECKED:		SUBMITTED: <i>Yuh Katsura</i> 14038 11-5-79 PROJECT MANAGER: R.C.E. NO. DATE PROJECT ADMINISTRATOR: <i>Scott Hulsin</i> 14894 11-5-79 R.C.E. NO. DATE		J&K CONSULTING ENGINEERS A JOINT VENTURE 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. BUILDINGS & WEATHER COVER AT HEADWORKS ARCHITECTURAL DETAILS		SHEET A3-5
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	



03146

RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper

[Signature] RCE 14888

KATSURA CONSULTING ENGINEERS March 1988



GRAPHIC SCALES

DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

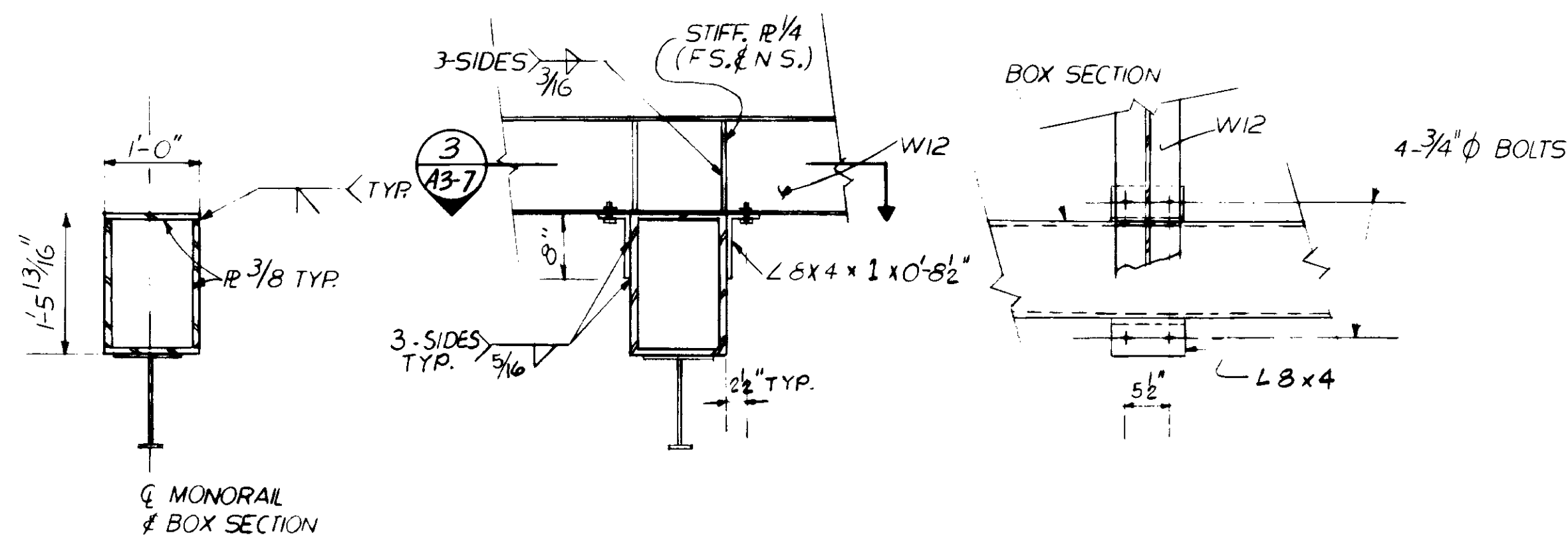
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE : AS SHOWN	LT DESIGNED LST/ENS DRAWN ALL CHECKED	SUBMITTER <i>[Signature]</i> PROJECT MANAGER 14038 11-5-79 R.C.E. NO. DATE PROJECT ADMINISTRATOR 14884 11-5-79 R.C.E. NO. DATE
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JKS CONSULTING ENGINEERS
 A JOINT VENTURE
 5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 BUILDINGS & WEATHER COVER AT HEADWORKS -
 STRUCTURAL SECTIONS & DETAILS

SHEET
A3-6



SECTION 1
3/4"=1'-0"
A3-7

SECTION 2
3/4"=1'-0"
A3-7

SECTION 3
3/4"=1'-0"
A3-7

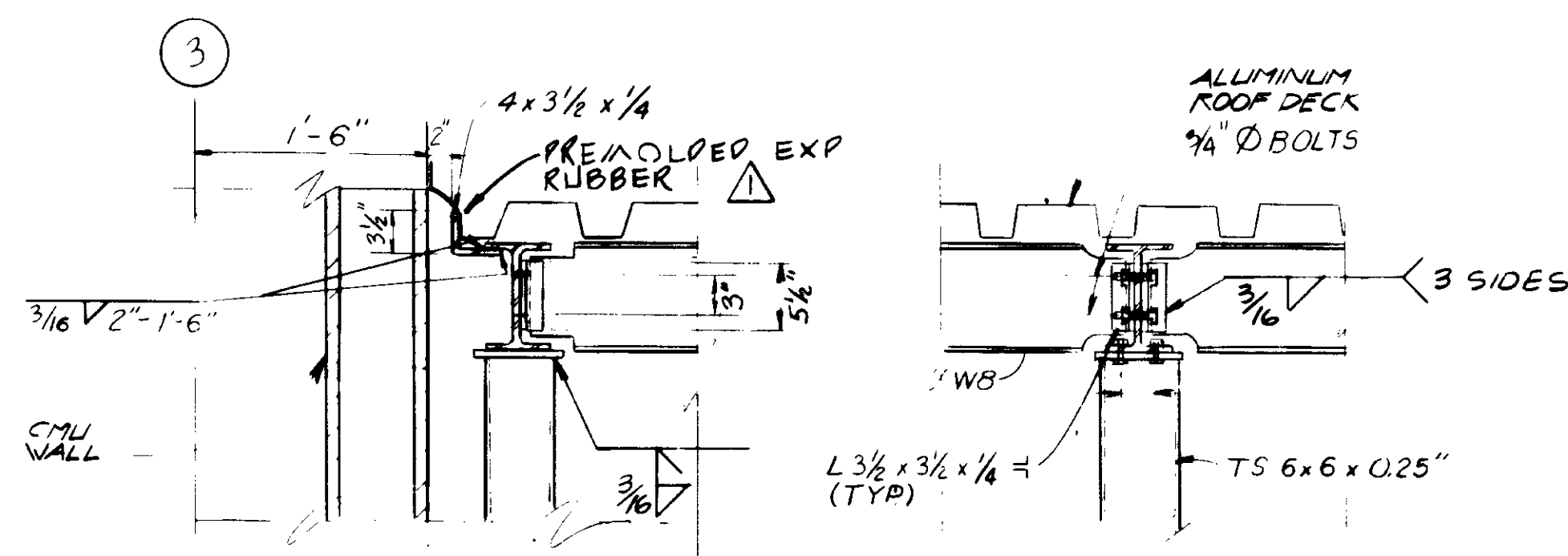
SECTION 4
1"=1'-0"
A3-7

SECTION 5
1"=1'-0"
A3-7

SECTION 6
1"=1'-0"
A3-7

CRANERAIL SUPPORT ASSEMBLY

* DIMENSION NOT SHOWN - DETERMINE FROM MFR.



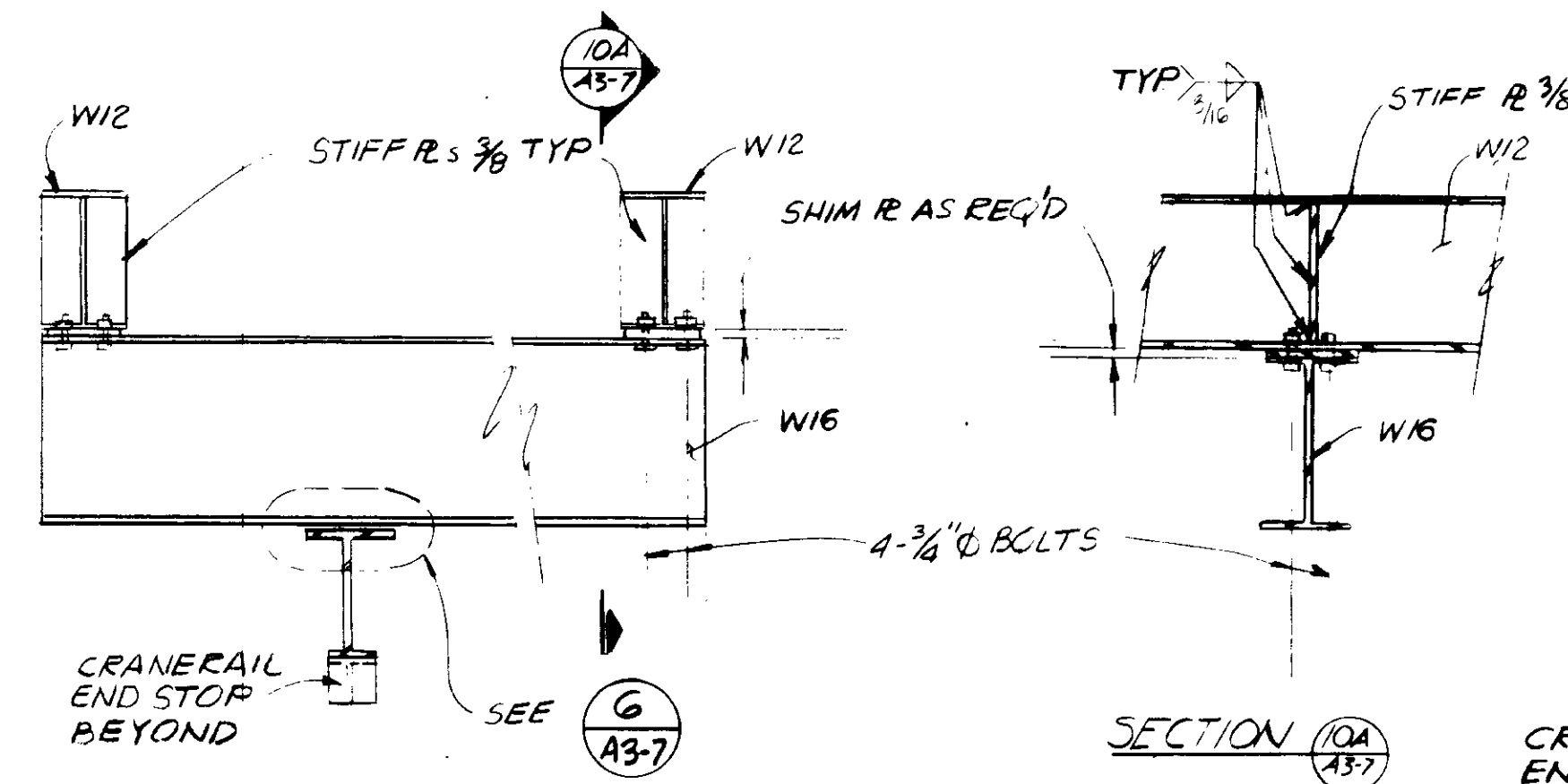
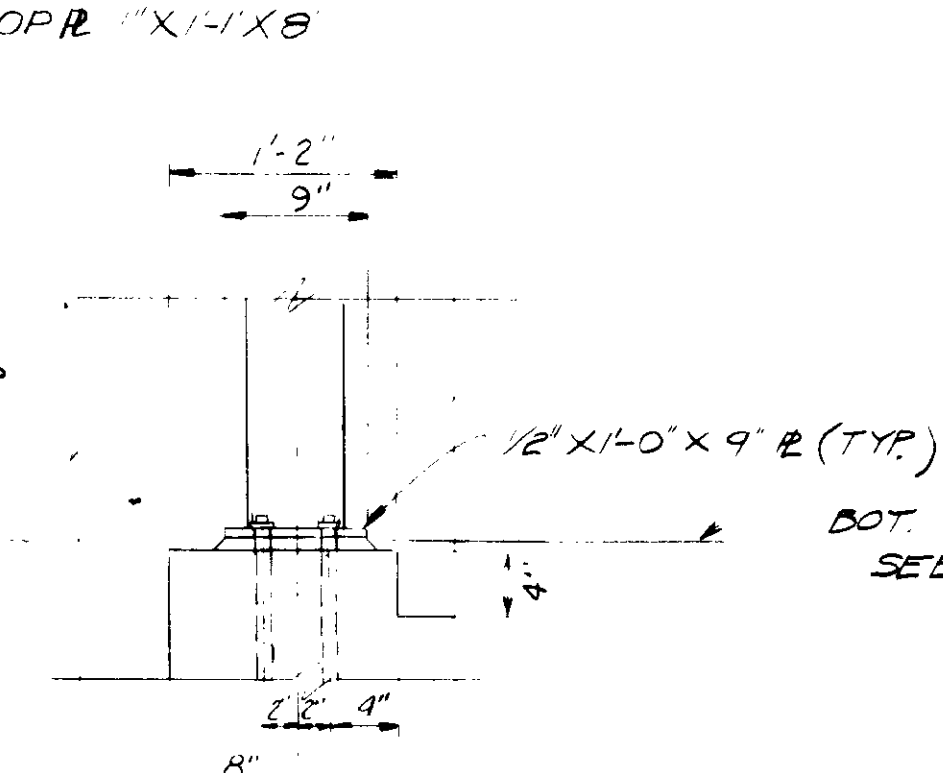
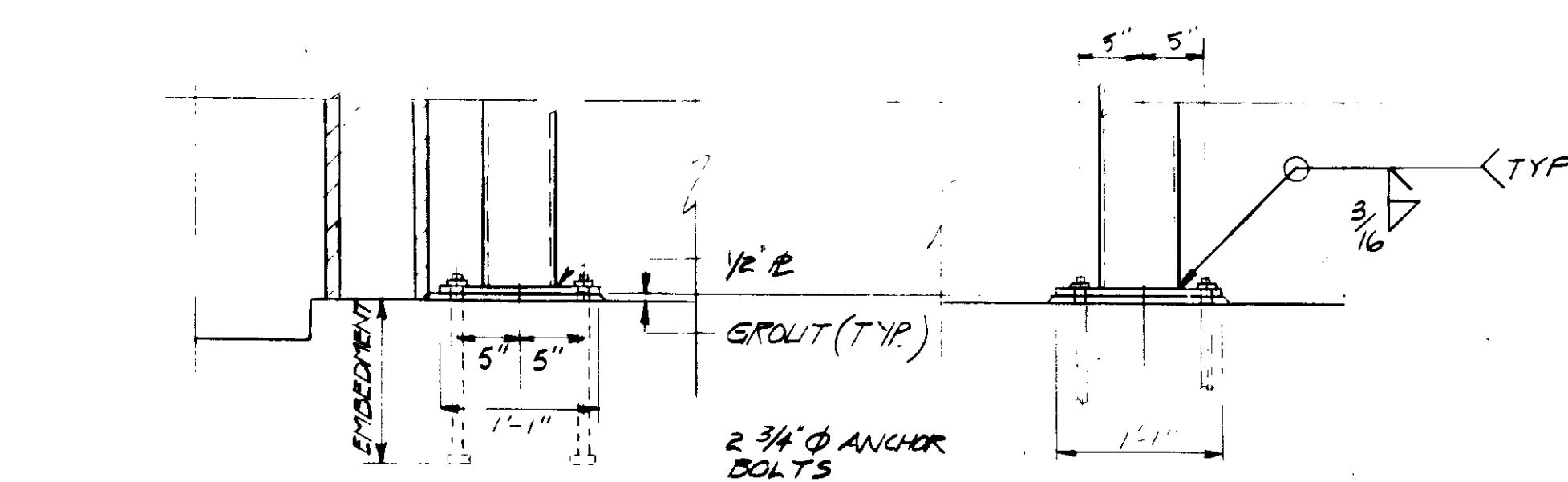
SECTION 7
1"=1'-0"
A3-7

SECTION 8
1"=1'-0"
A3-7

SECTION 9
1"=1'-0"
A3-7

FOR WELDING NOT SHOWN
SEE SECTION 8

FOR WELDING NOT SHOWN
SEE SECTION 8



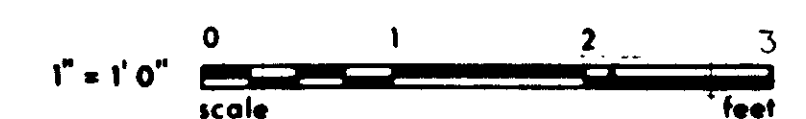
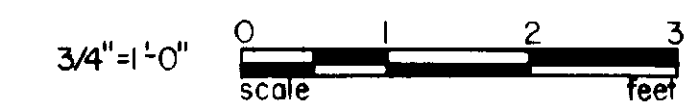
SECTION 10
1"=1'-0"
A3-7



DETAIL 11
1"=1'-0"
A3-7

NOTES:

1. SYMBOL '*' DENOTES DIMENSION TO BE VERIFIED W/ EQUIP. MFR.



RECORD DRAWINGS

Per Field Information Provided By Morley-Ziebarth & Alper
V. Katsura
 KATSURA CONSULTING ENGINEERS

RCE 14038
 March 1988

03147

GRAPHIC SCALES

DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

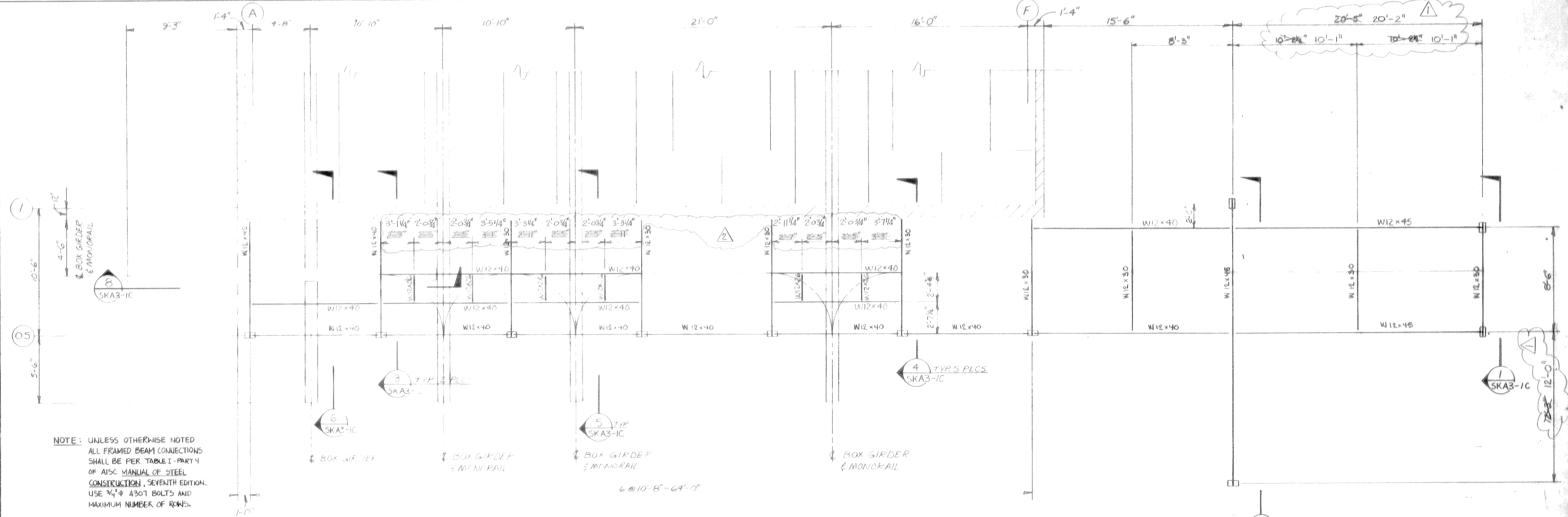
REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	LT DESIGNED PHS DRAWN ACP CHECKED	SUBMITTER <i>V. Katsura</i> PROJECT MANAGER 14038 11-5-79 R.C.E. NO. DATE PROJECT ADMINISTRATOR 14894 11-5-79 R.C.E. NO. DATE
-----------------	--	--

JKC CONSULTING ENGINEERS
 A JOINT VENTURE
 6601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
 (213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
 BUILDINGS & WEATHER COVER AT HEADWORKS -
 STRUCTURAL SECTION & DETAILS

SHEET
A3-7

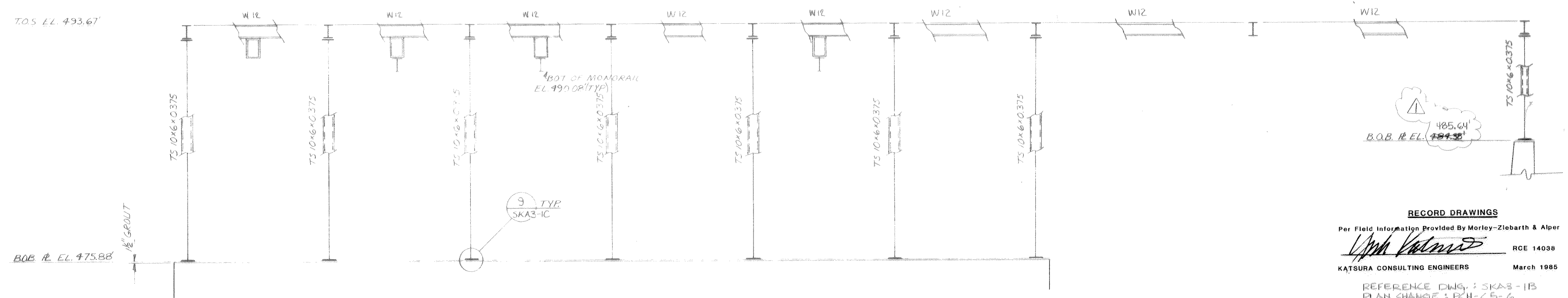


NOTE: UNLESS OTHERWISE NOTED ALL FRAMED BEAM CONNECTIONS SHALL BE PER TABLE I - PART 4 OF AISC MANUAL OF STEEL CONSTRUCTION, SEVENTH EDITION. USE 3/4" A307 BOLTS AND MAXIMUM NUMBER OF ROWS.

MONORAIL SUPPORT FRAMING PLAN-SCREENING AND DESRIT BUILDING

SCALE: 1/4" = 1'-0"

1
SKA3-1B



ELEVATION ALONG GRID LINE 0.5

SCALE: 1/4" = 1'-0"

2
SKA3-1B

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
[Signature] RCE 14038
 KATSURA CONSULTING ENGINEERS March 1985
 REFERENCE DWG.: SKA3-1B
 PLAN CHANGE: PCH-C5-6

03149
 PCH-C5-6

REV	DATE	BY	DESCRIPTION
1	10-28-86	R. LEE	REVISED BEAM LOCATION
2	5-15-91	R. LEE	CONCRETE COMM. REV. PART I

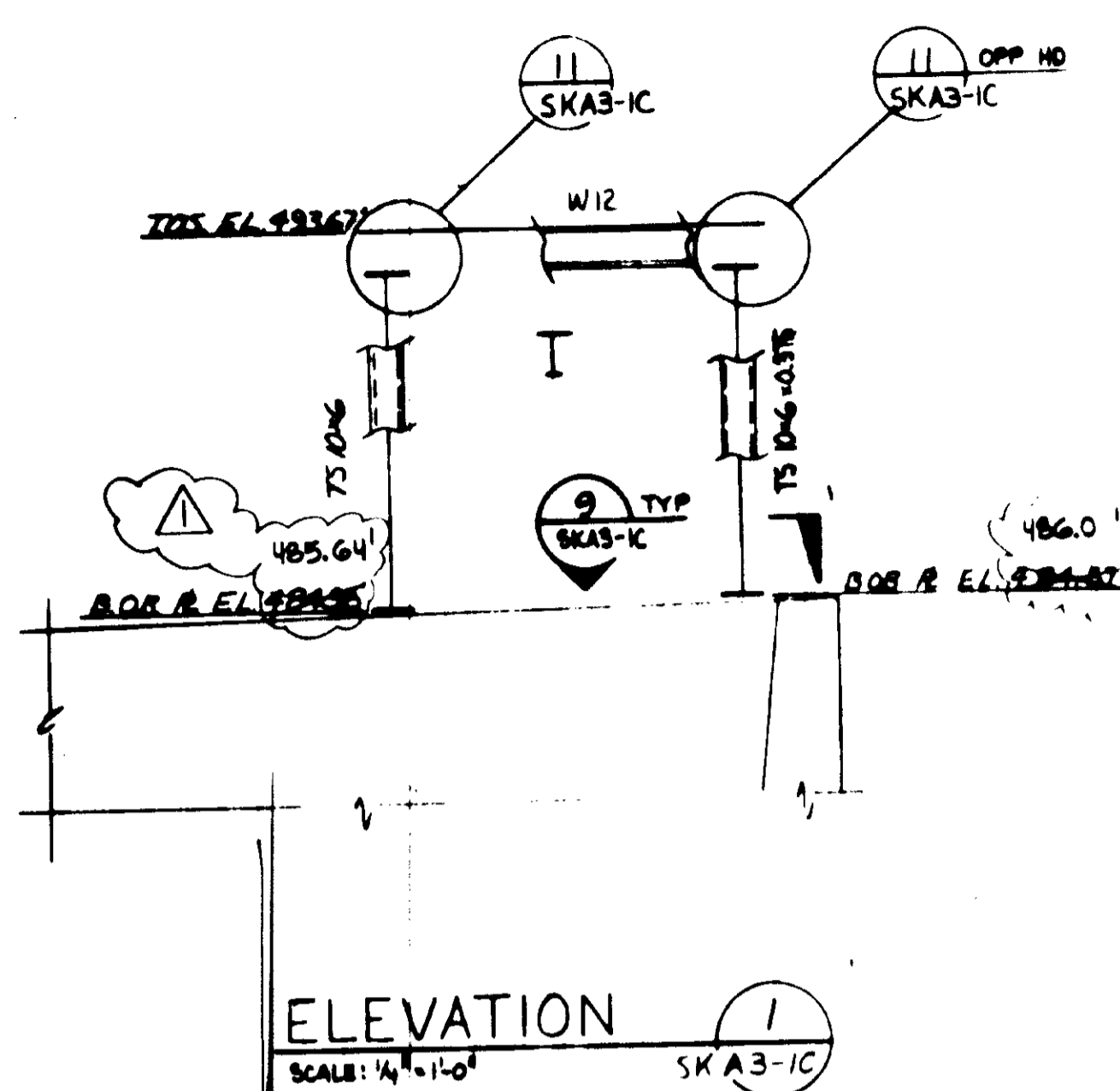
Y. KATSURA
 CONSULTING ENGINEERS
 SANTA PAULA, CALIFORNIA

DATE: 10-28-86
 BY: R. LEE

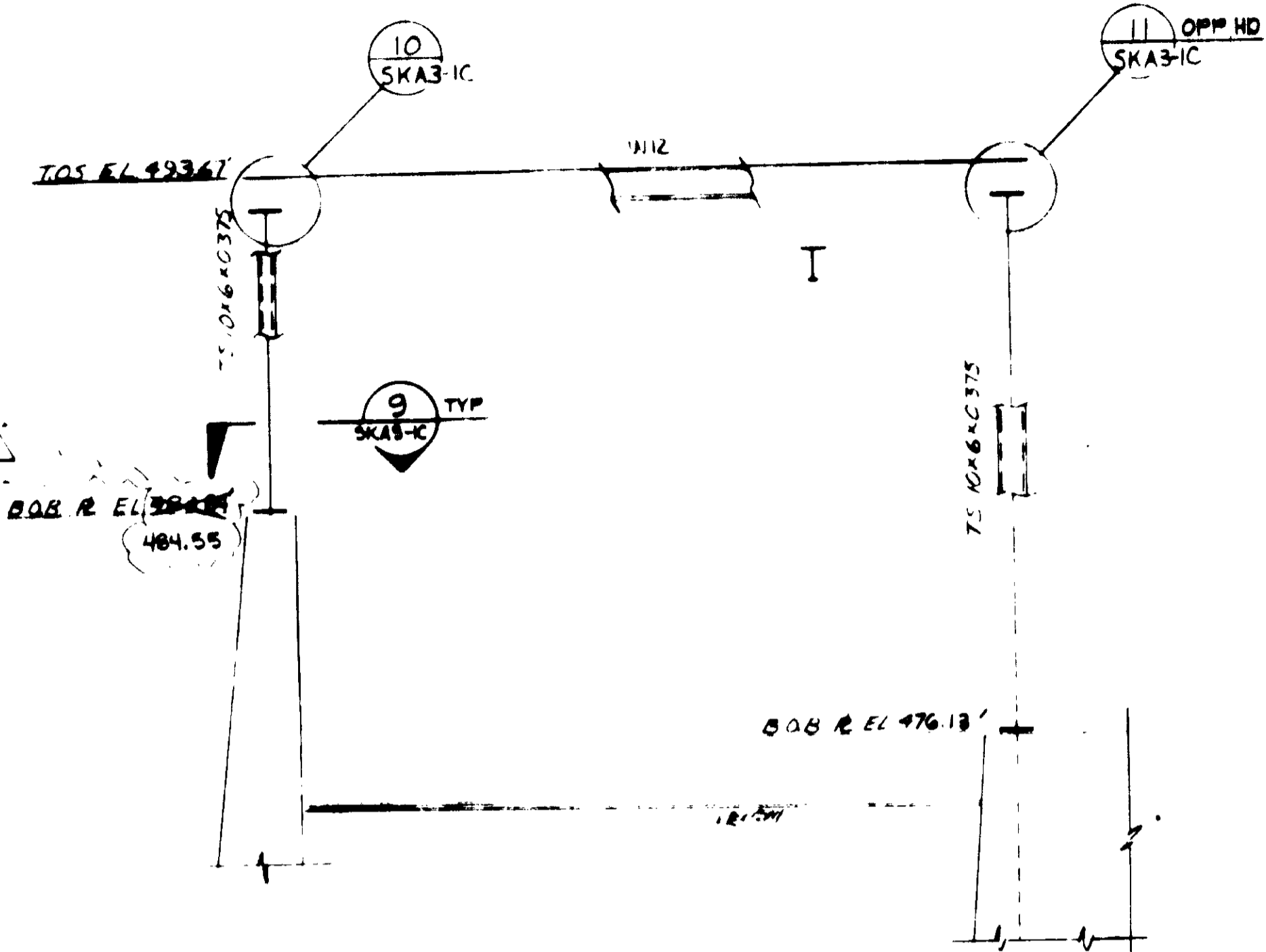
**MONORAIL SUPPORT
 PLAN AND ELEVATION**

SHEET
 A3-9

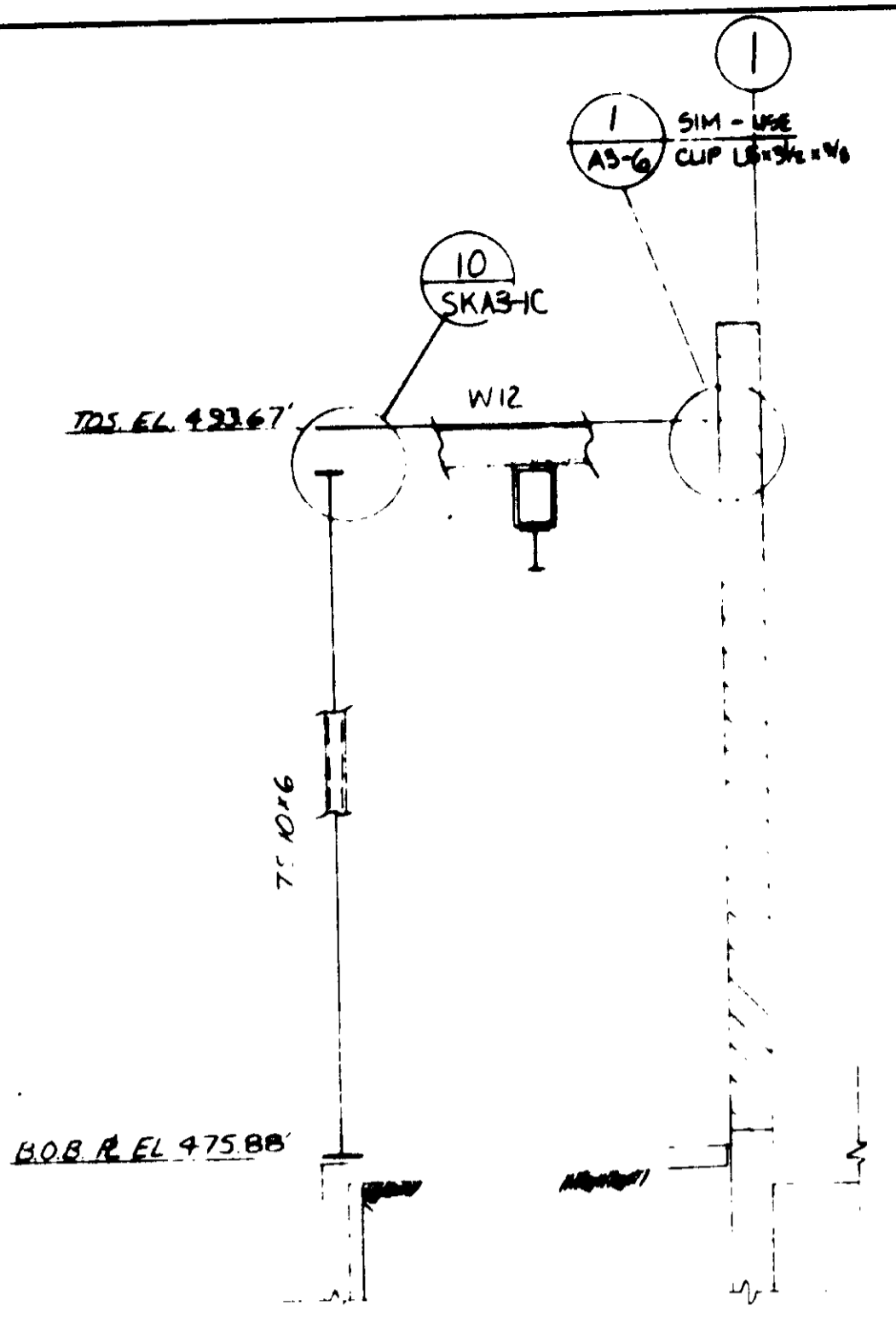
SHT 18 OF 24



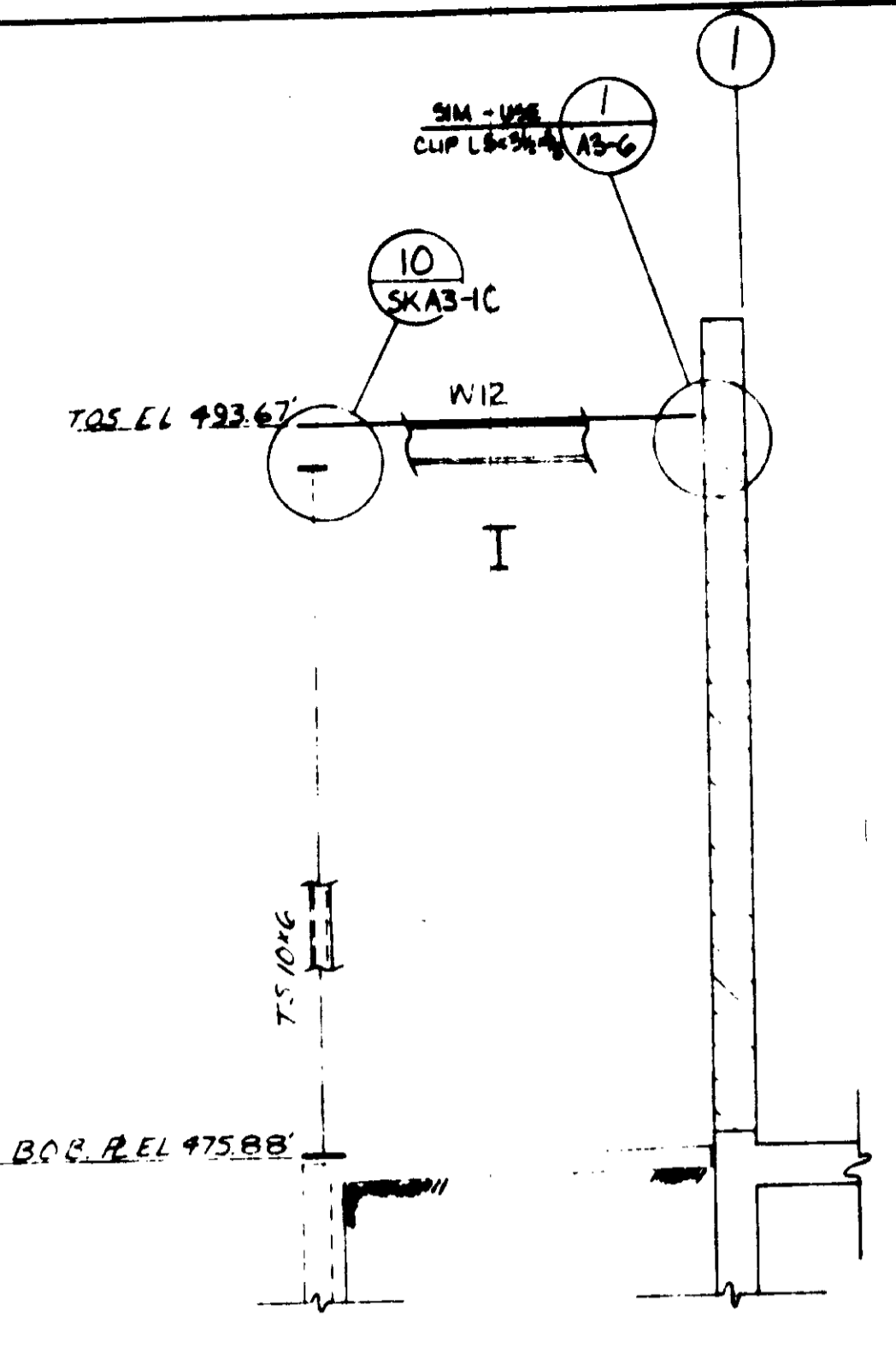
ELEVATION 1
SCALE: 1/4" = 1'-0"
SKA3-1C



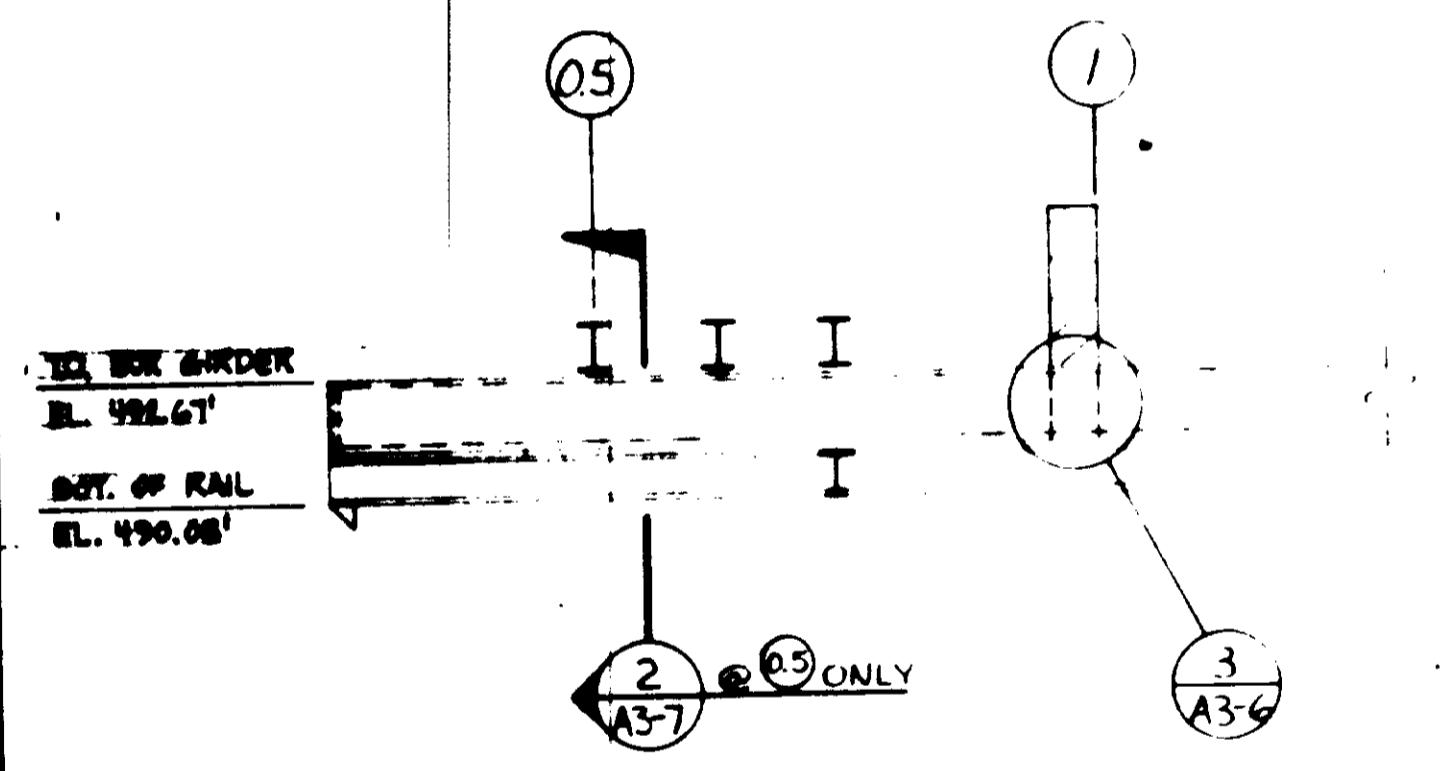
ELEVATION 2
SCALE: 1/4" = 1'-0"
SKA3-1C



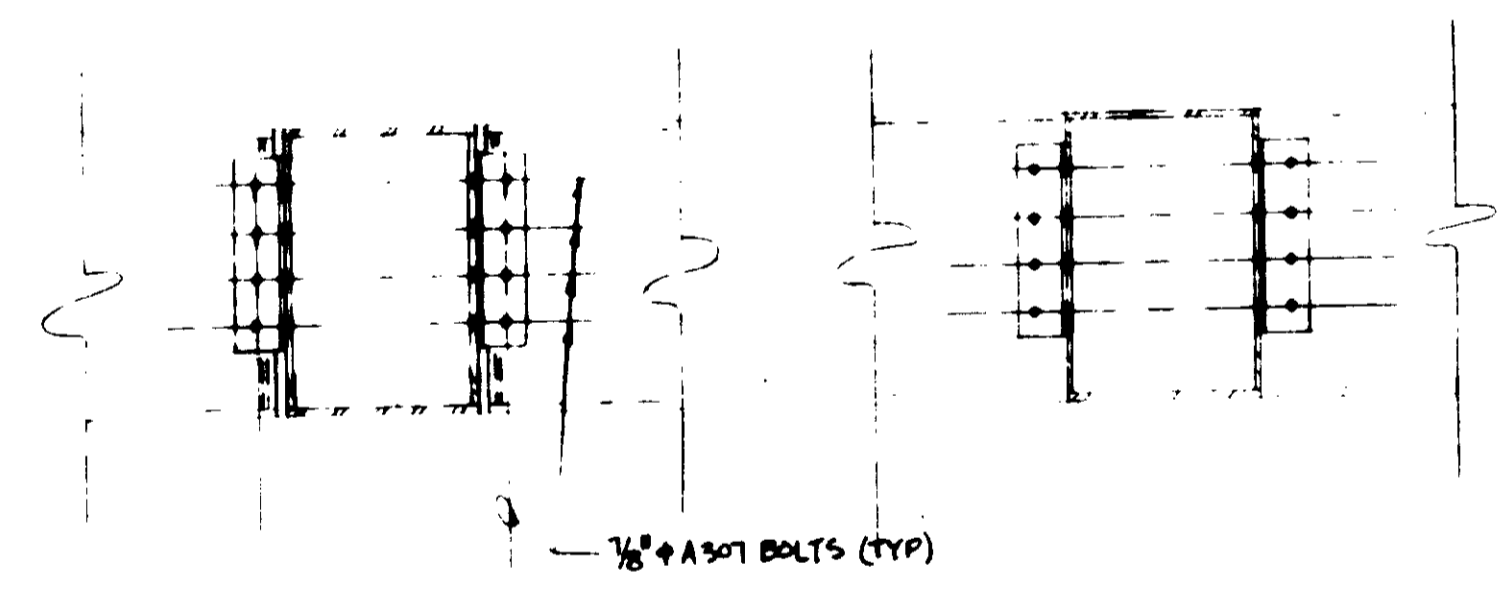
ELEVATION 3
SCALE: 1/4" = 1'-0"
SKA3-1C



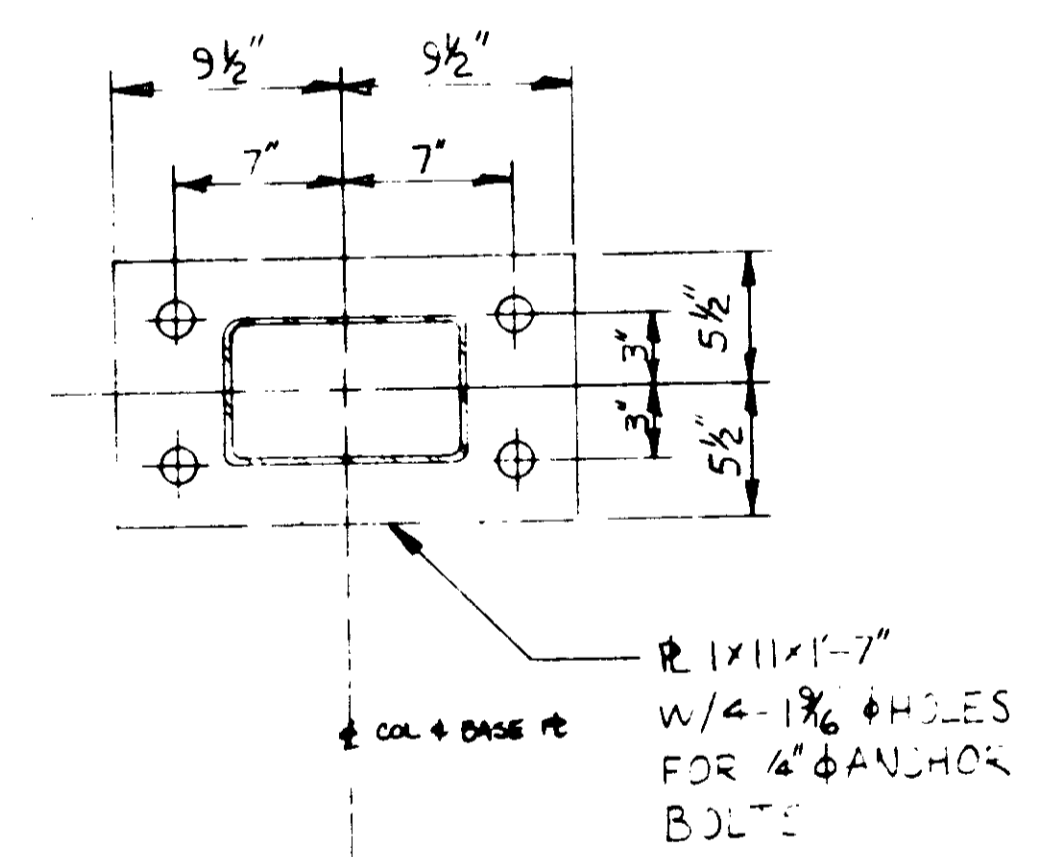
ELEVATION 4
SCALE: 1/4" = 1'-0"
SKA3-1C



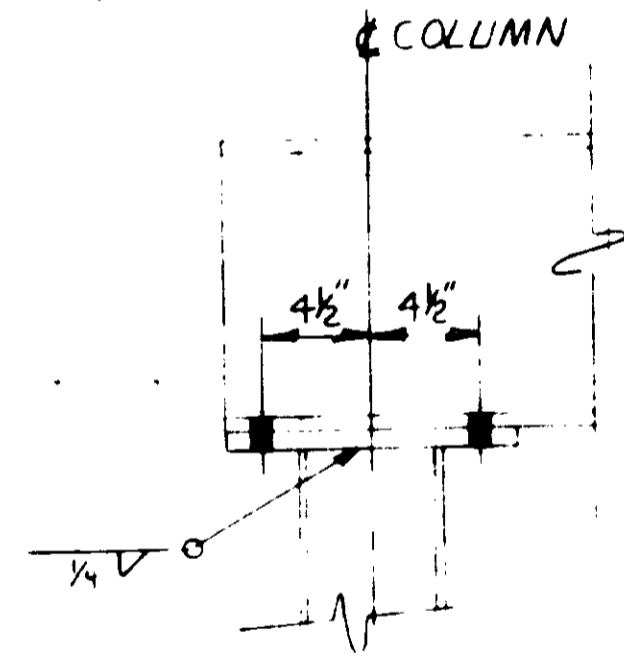
SECTION 5
SCALE: 1/4" = 1'-0"
SKA3-1C



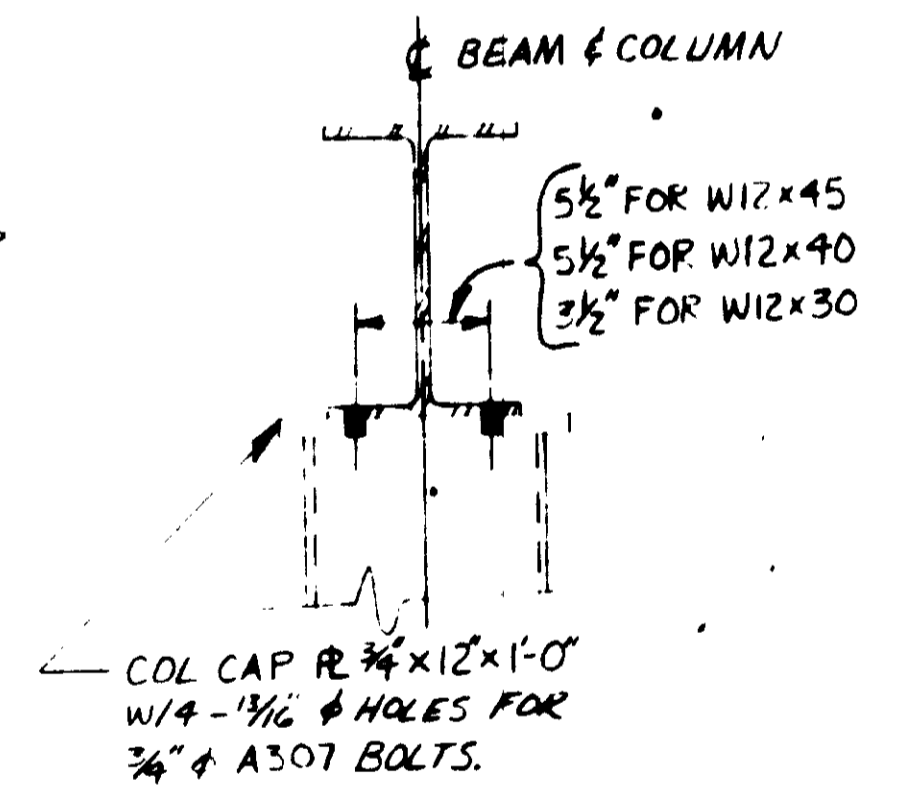
DETAIL 7
SCALE: 1" = 1'-0"
SKA3-1C



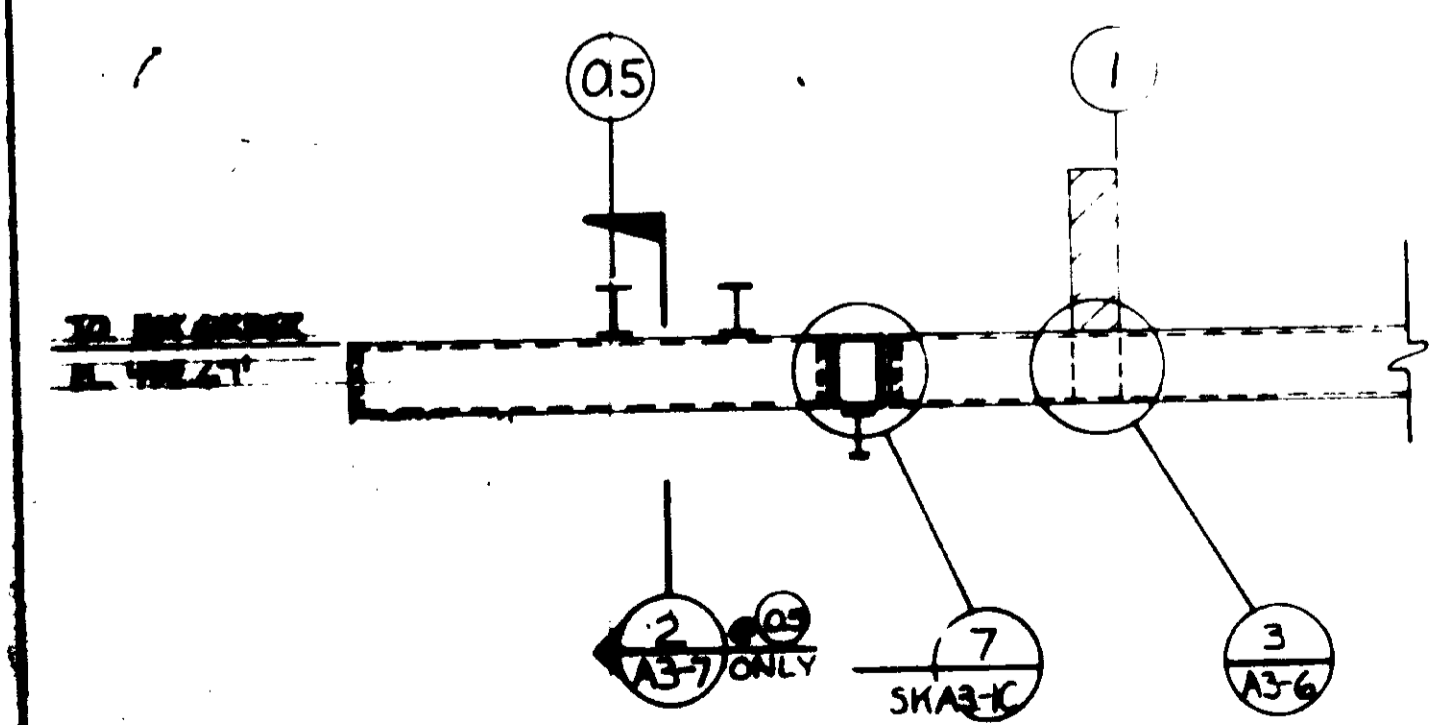
DETAIL 9
SCALE: 1/2" = 1'-0"
SKA3-1C



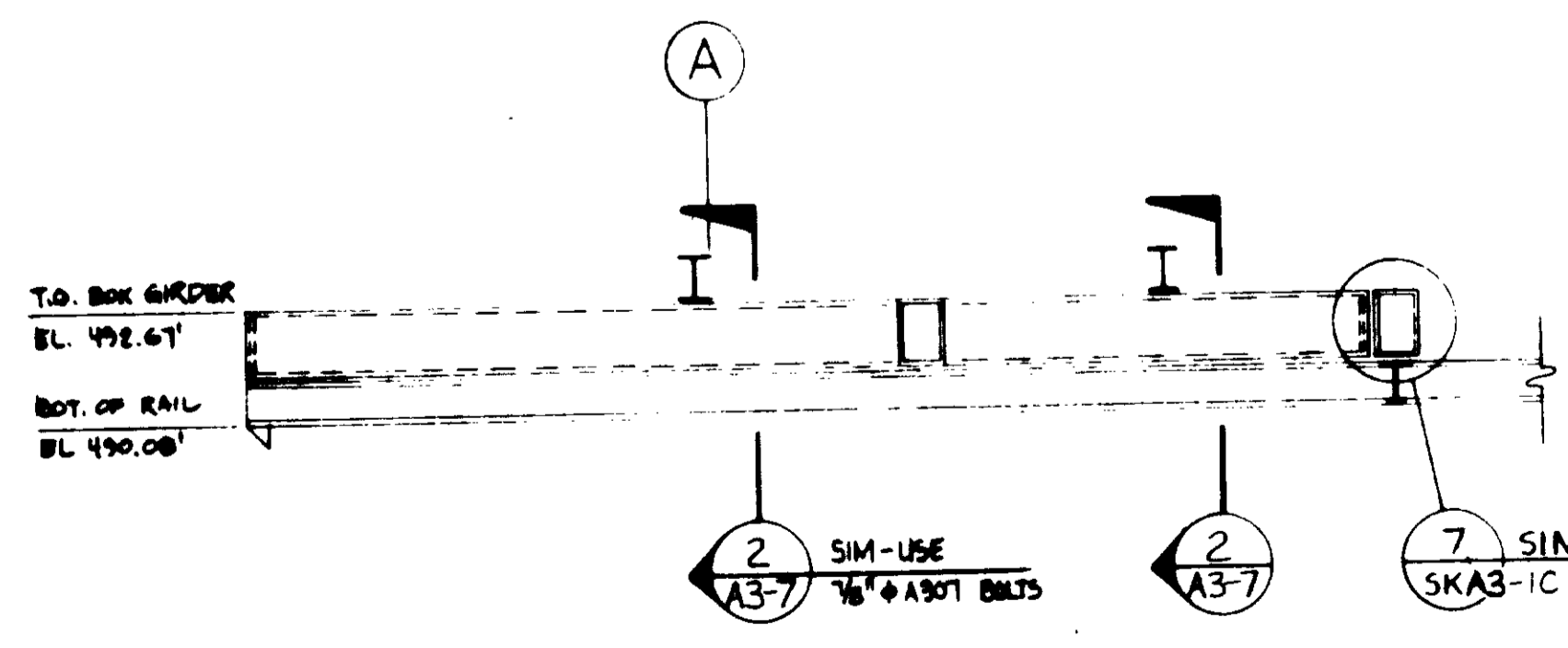
DETAIL 10
SCALE: 1/2" = 1'-0"
SKA3-1C



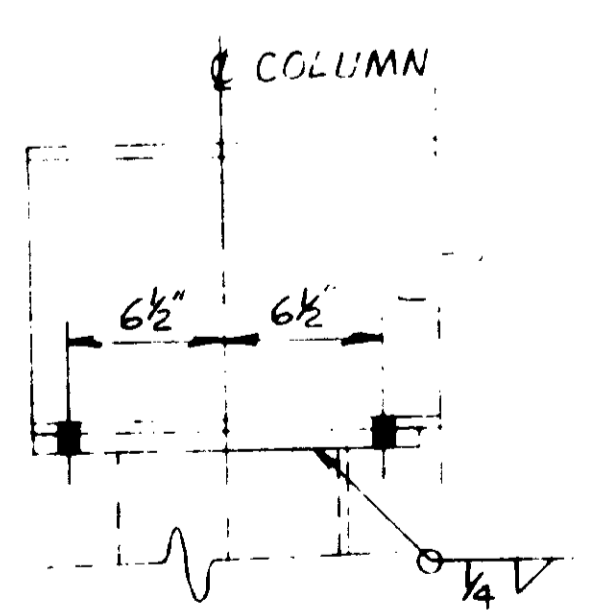
DETAIL 11
SCALE: 1/2" = 1'-0"
SKA3-1C



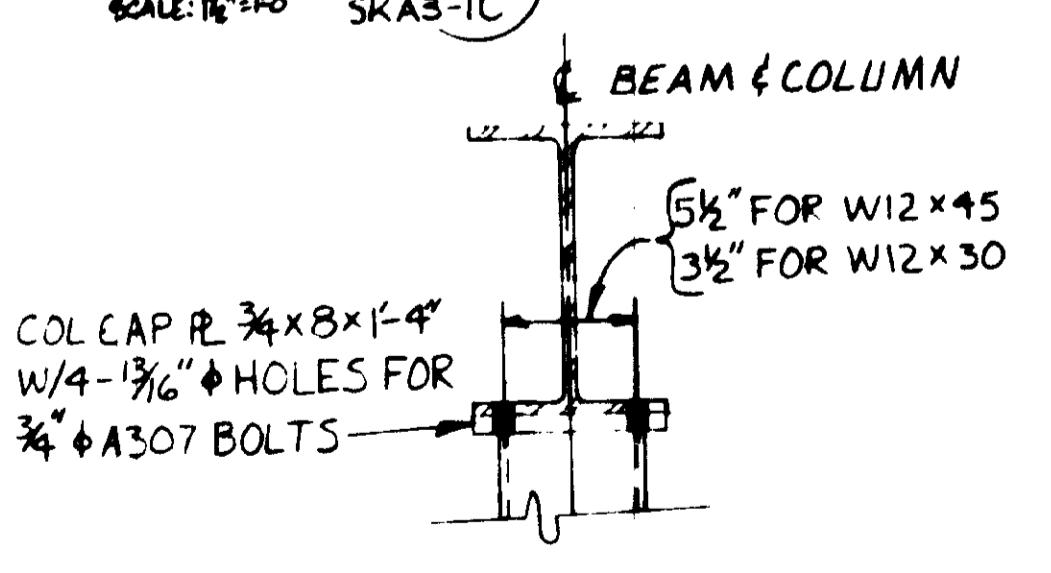
SECTION 6
SCALE: 1/4" = 1'-0"
SKA3-1C



SECTION 8
SCALE: 1/4" = 1'-0"
SKA3-1C



DETAIL 9
SCALE: 1/2" = 1'-0"
SKA3-1C



DETAIL 11
SCALE: 1/2" = 1'-0"
SKA3-1C

REFERENCE DWG.: SKA3-1C
PLAN CHANGE 1 PCH-C5-6

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Y. Katsura
KATSUBA CONSULTING ENGINEERS
RCE 14028
March 1986

REV	DATE	BY	DESCRIPTION

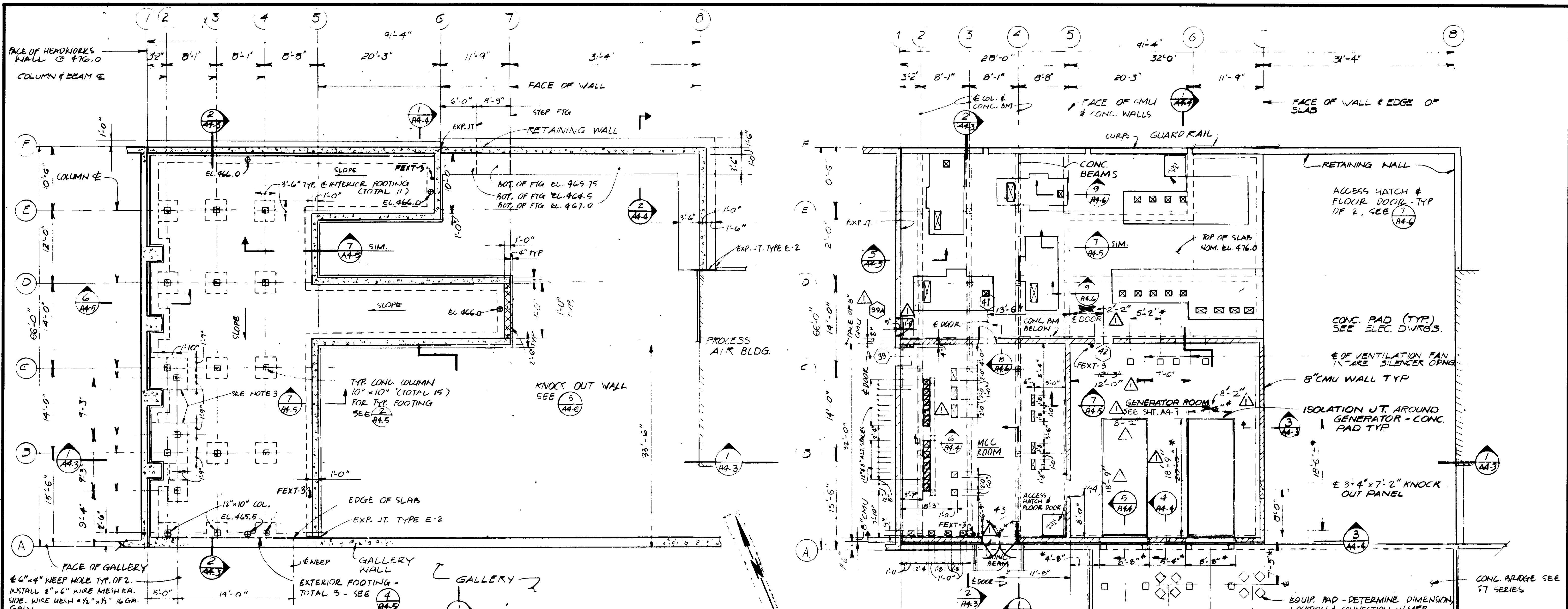
Y. KATSUBA
CONSULTING ENGINEERS
SANTA PAULA, CALIFORNIA

DATE: 10-20-86
BY: R. LEE

**MONORAIL SUPPORT
ELEV., SECT., & DET.**

03150
PCH-C5-6

SHEET
A3-10

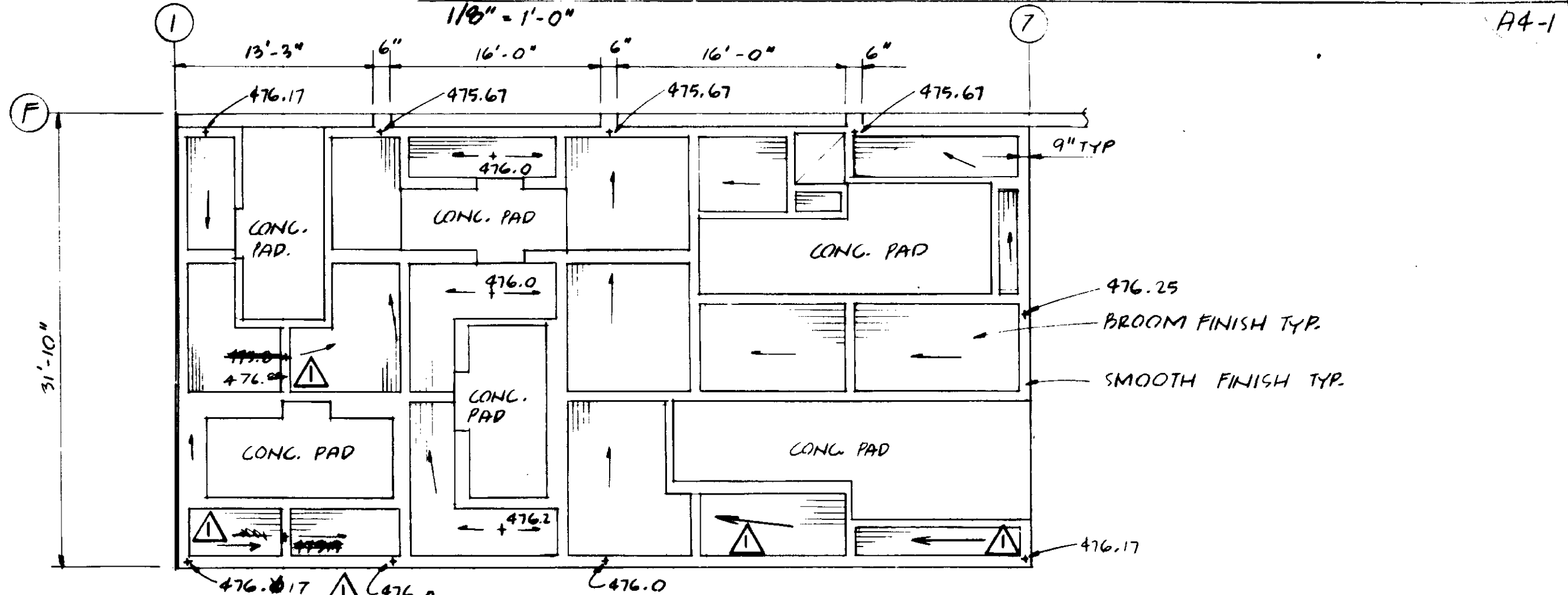


NOTE:
FOR TYP. SLAB REINF. SEE (3) A4.5

PLAN BELOW FLOOR SLAB ELEV. 476.0
1/8" = 1'-0"

NOTE:
FOR TYP. SLAB REINF. SEE (5) A4.5 (3) A4.3

PLAN @ EL. 476.0
1/8" = 1'-0"



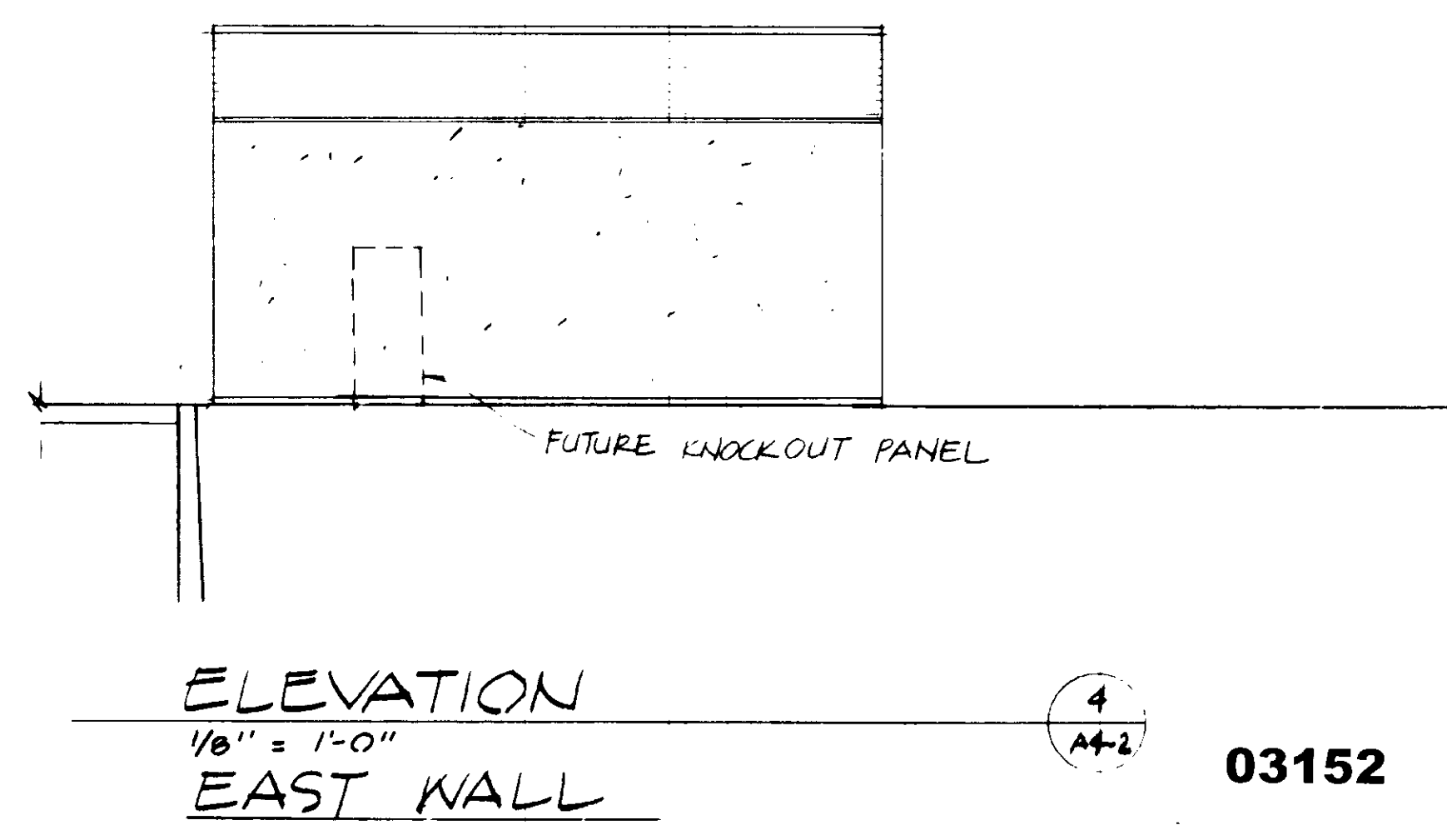
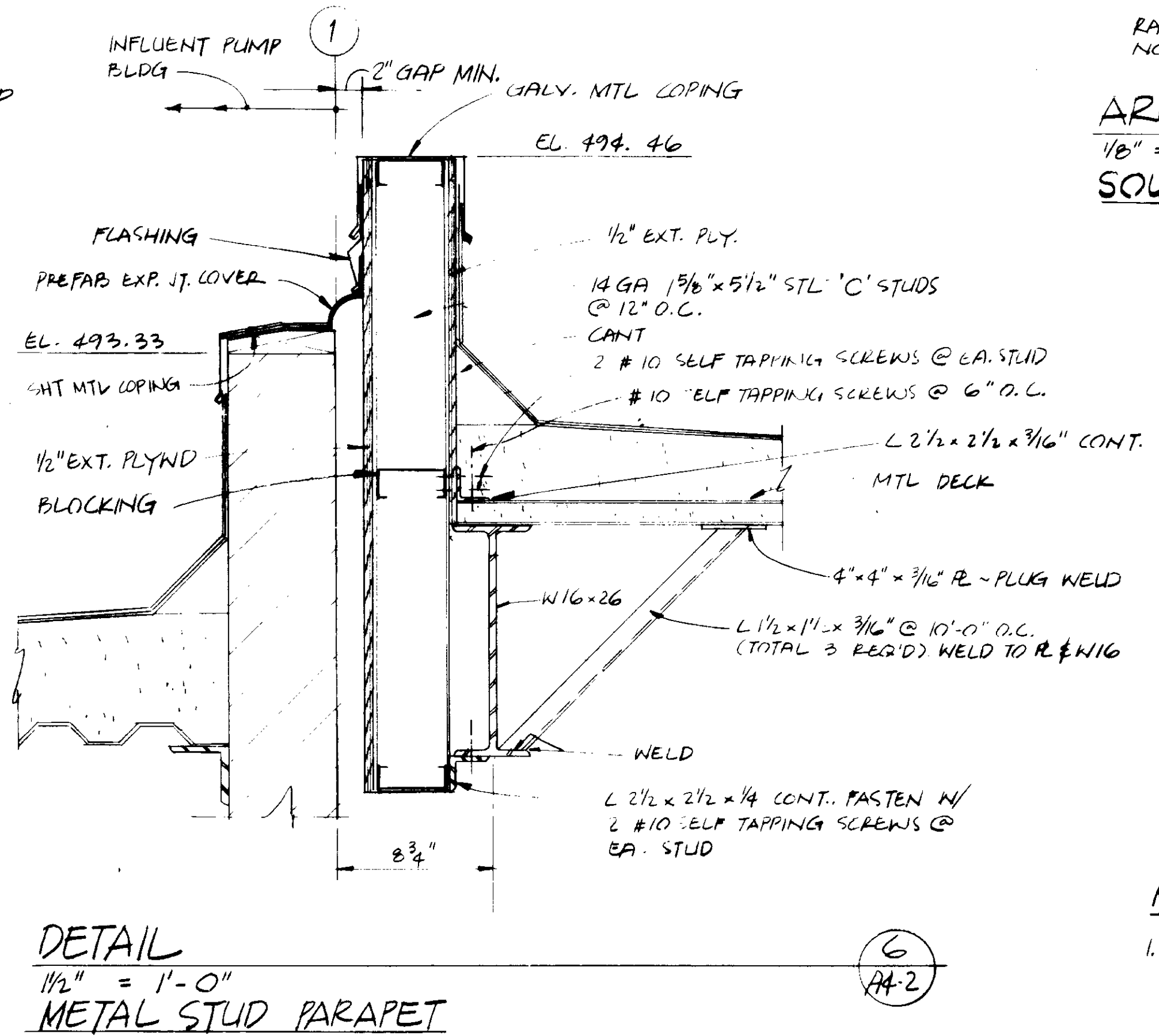
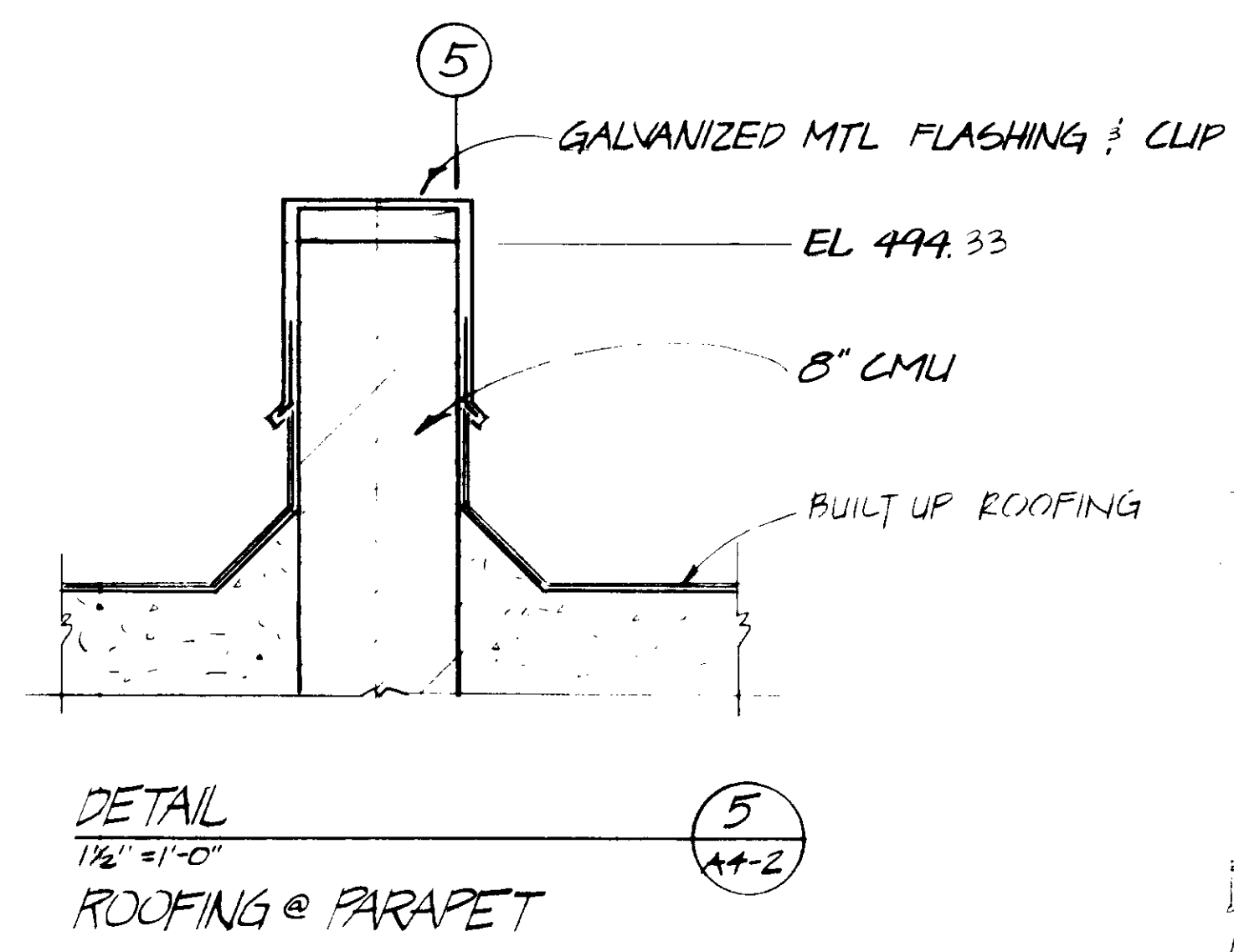
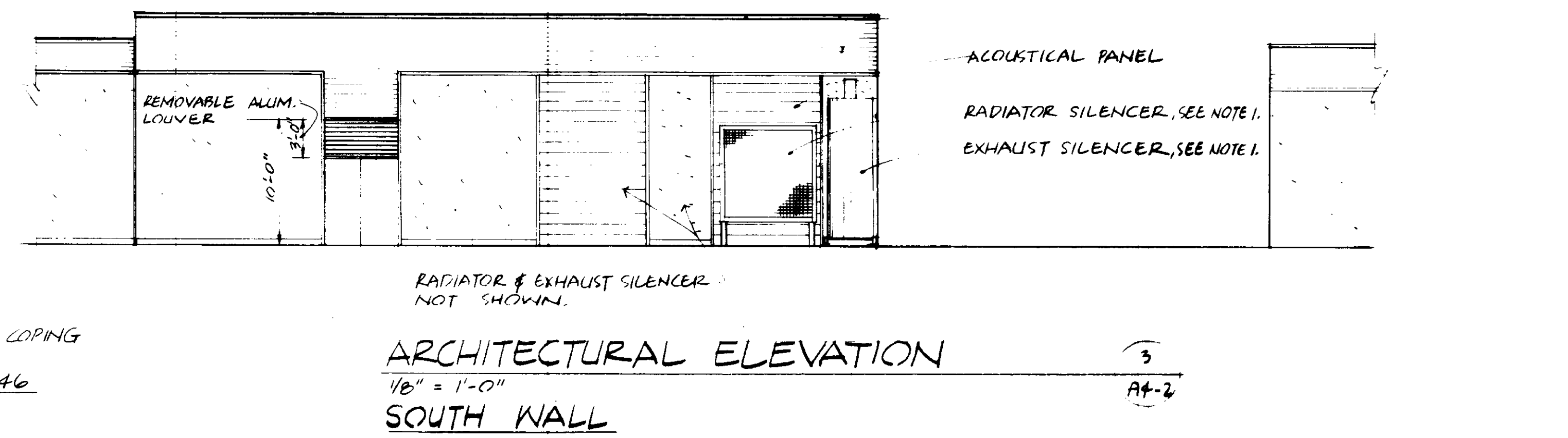
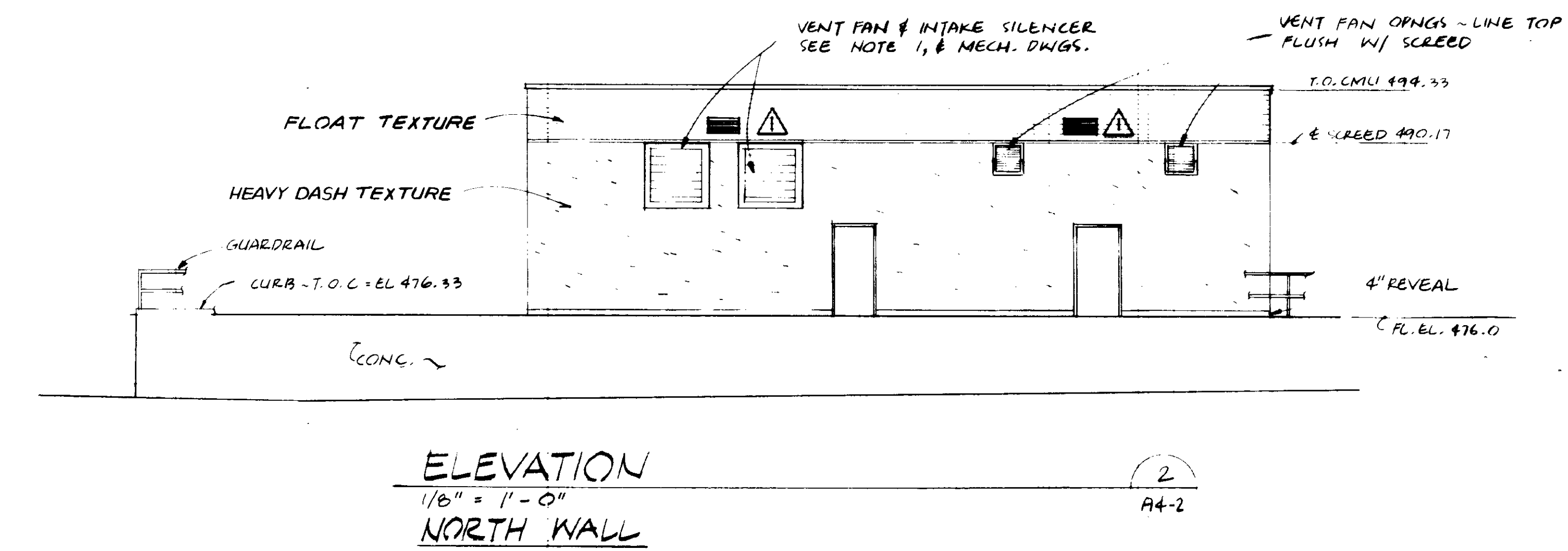
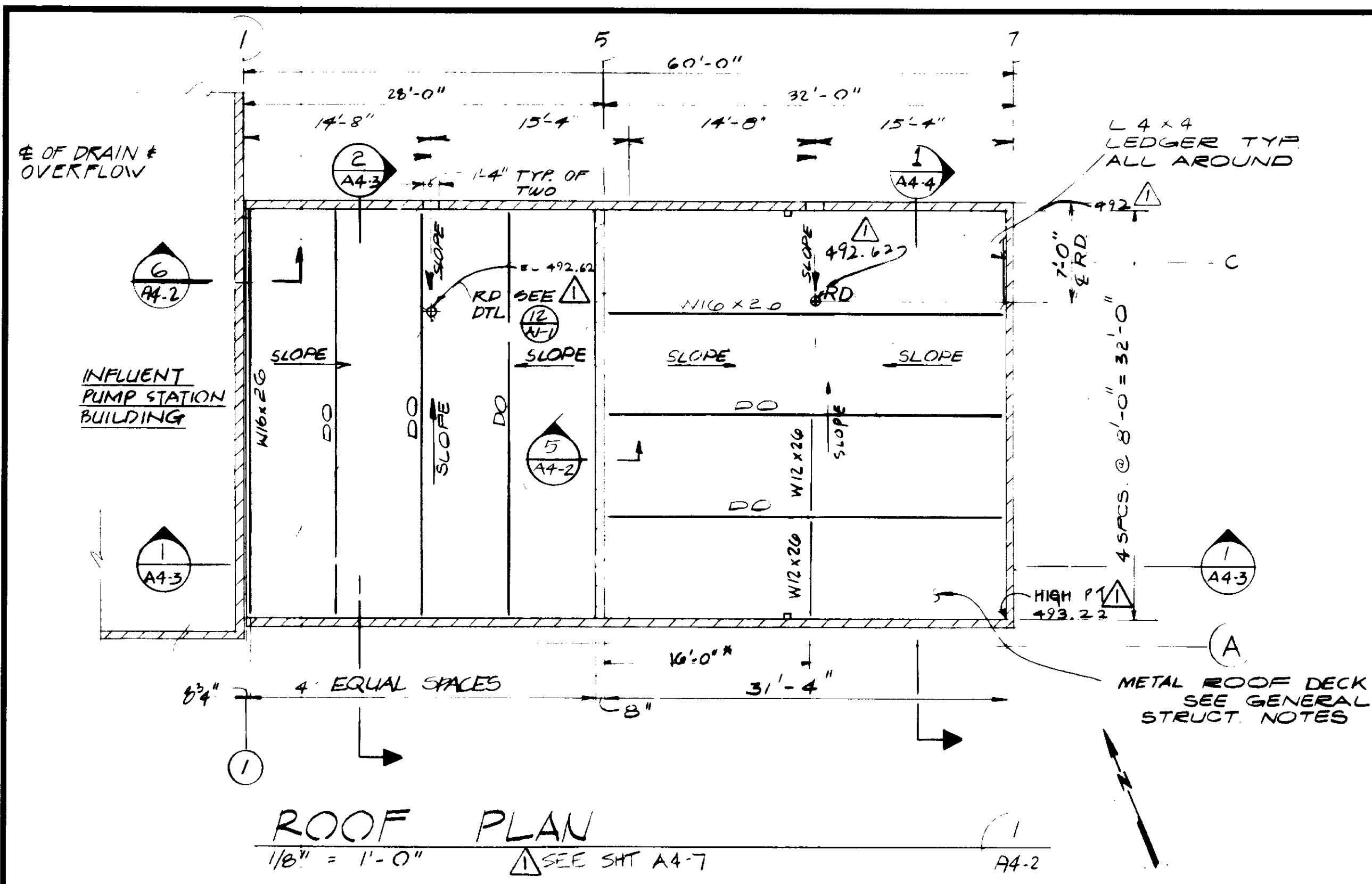
PLAN - PAVEMENT & DRAINAGE
1/8" = 1'-0"

- NOTES:
- 1) SEE BKG 61-1 TO 61-4 FOR GENERAL NOTES AND TYPICAL DETAILS
 - 2) SYMBOL * DENOTES DIMENSION TO BE VERIFIED BY MFR
 - 3) COMBINED FOOTING @ (B) & (2) IS 6'-7" x 6'-0" AND AT (C) & (2) IS 5'-2" x 6'-0"
 - 4) SEE MM DWGS FOR MISCELLANEOUS METAL ITEMS
 - 5) VERIFY FLOOR OPNGS DIMENSIONS W/ ELEC. EQUIP. MFR.

RECORD DRAWINGS
Per Field Information Provided by Morley-Stoborath & Alper
[Signature] RDE 14000
KATSUMA CONSULTING ENGINEERS March 1988
1/8" = 1'-0" scale
GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

03151

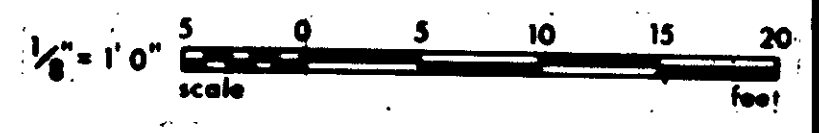
SCALE: AS SHOWN		AS/LT DESIGNED: PKA/DZ	SUBMIT: <i>[Signature]</i> 14038 11-5-79	LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.		SHEET A4-1					
REV. AS PER MZA & JZE		DRAWN: BRP	PROJECT MANAGER: <i>[Signature]</i> 14038 11-5-79	ELECTRICAL BUILDING - BASEMENT & FLOOR PLANS							
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	PROJECT ADMINISTRATOR: <i>[Signature]</i> 14884 11-5-79		CONSULTING ENGINEERS A JOINT VENTURE 8801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016 (213) 832-8117	



- NOTES:**
- SEE A1 SERIES DWGS FOR TYP. ARCHITECTURAL DETAILS, DOORS & FINISH SCHEDULE
 - DIMENSIONS SHOWN ON PLANS ARE NOMINAL FACE OF STRUCTURE DIMENSIONS.

- NOTES:**
- SUPPORT FOR EQUIP. SHALL BE AS PER MFR'S REQ'MTS. SUCH SUPPORT SHALL BE ADEQUATE TO RESIST ALL APPLICABLE LATERAL & VERTICAL LOADS.

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
Yip Katsura
RCE 14088
KATSURA CONSULTING ENGINEERS March 1988



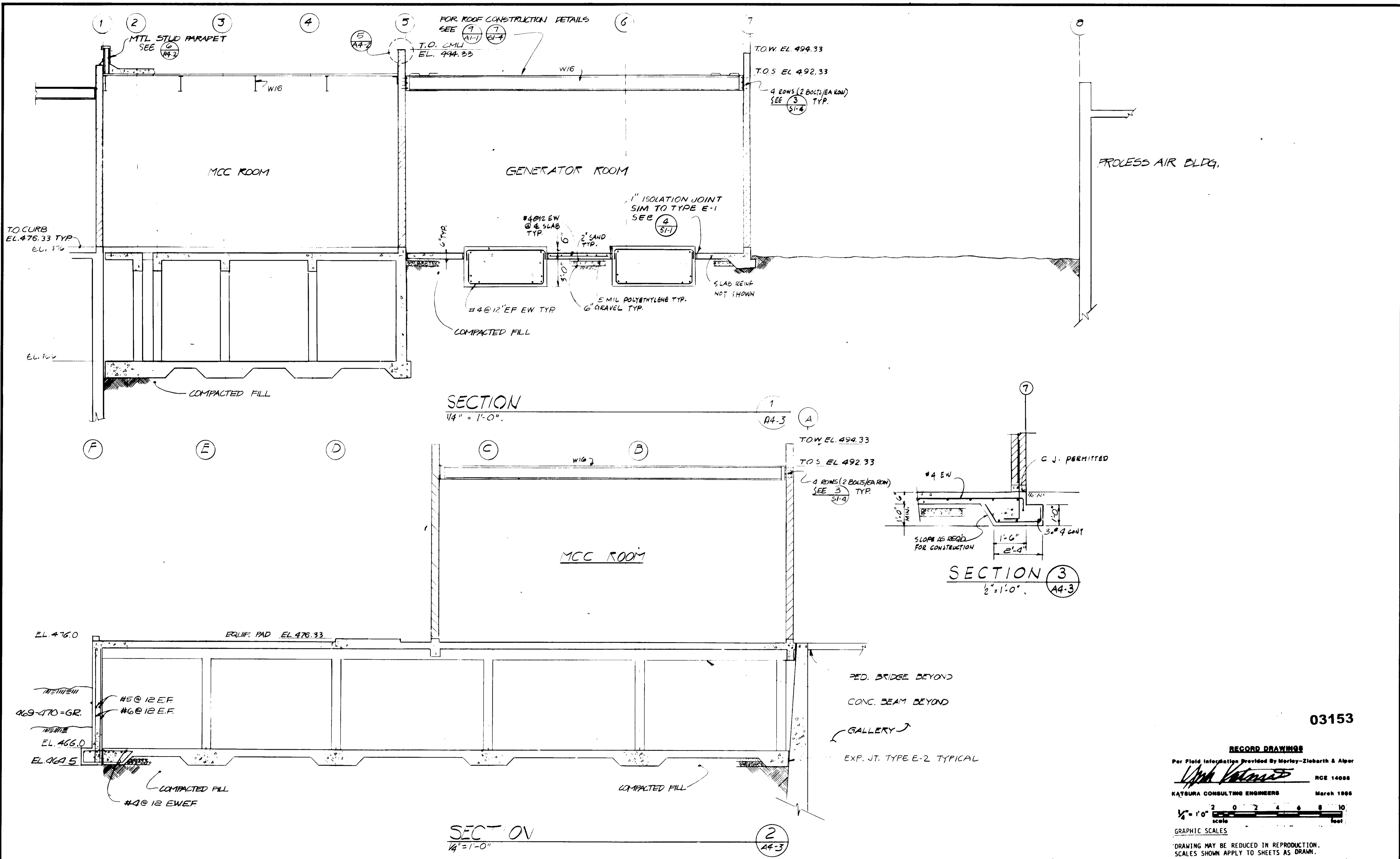
DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	DESIGNED ACC/ARK	SUBMITTED <i>Yip Katsura</i>
DRAWN LT/ARP	CHECKED	PROJECT MANAGER 14038 11-5-79 R.C.E. NO. DATE
		PROJECT ADMINISTRATOR 14884 11-5-79 R.C.E. NO. DATE

JKE CONSULTING ENGINEERS
A JOINT VENTURE
9901 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-9117

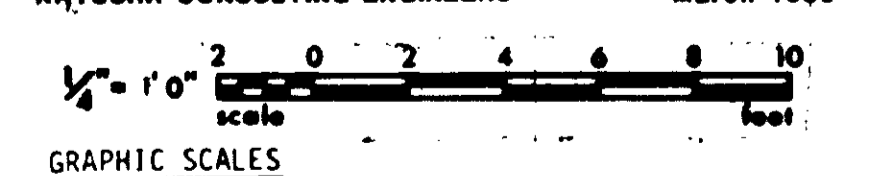
LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
ELECTRICAL BUILDING - ROOF PLAN & ELEVATIONS
SHEET **A4-2**



03153

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper

Yip Katsura RCE 14088
KATSURA CONSULTING ENGINEERS March 1988



DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

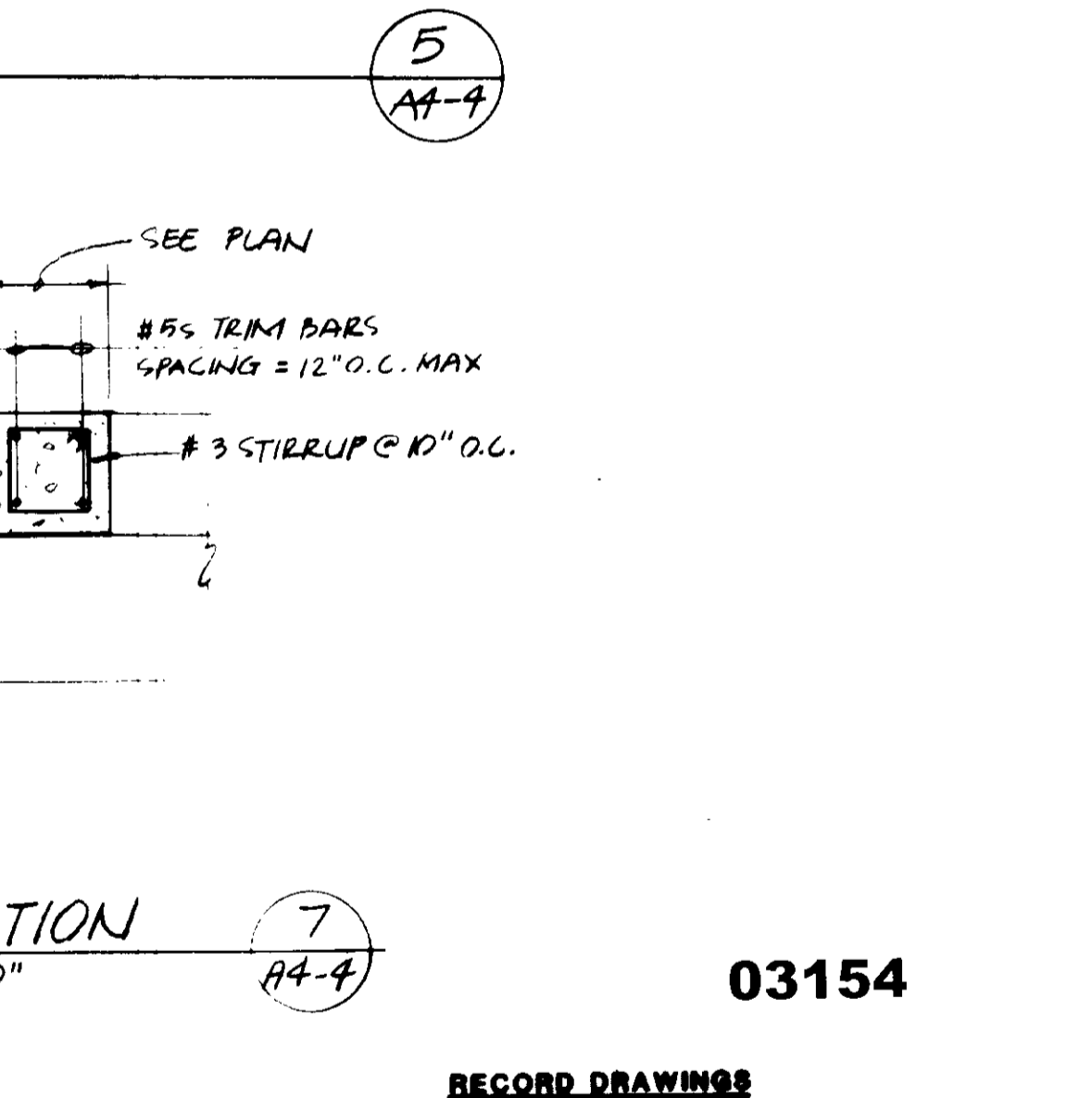
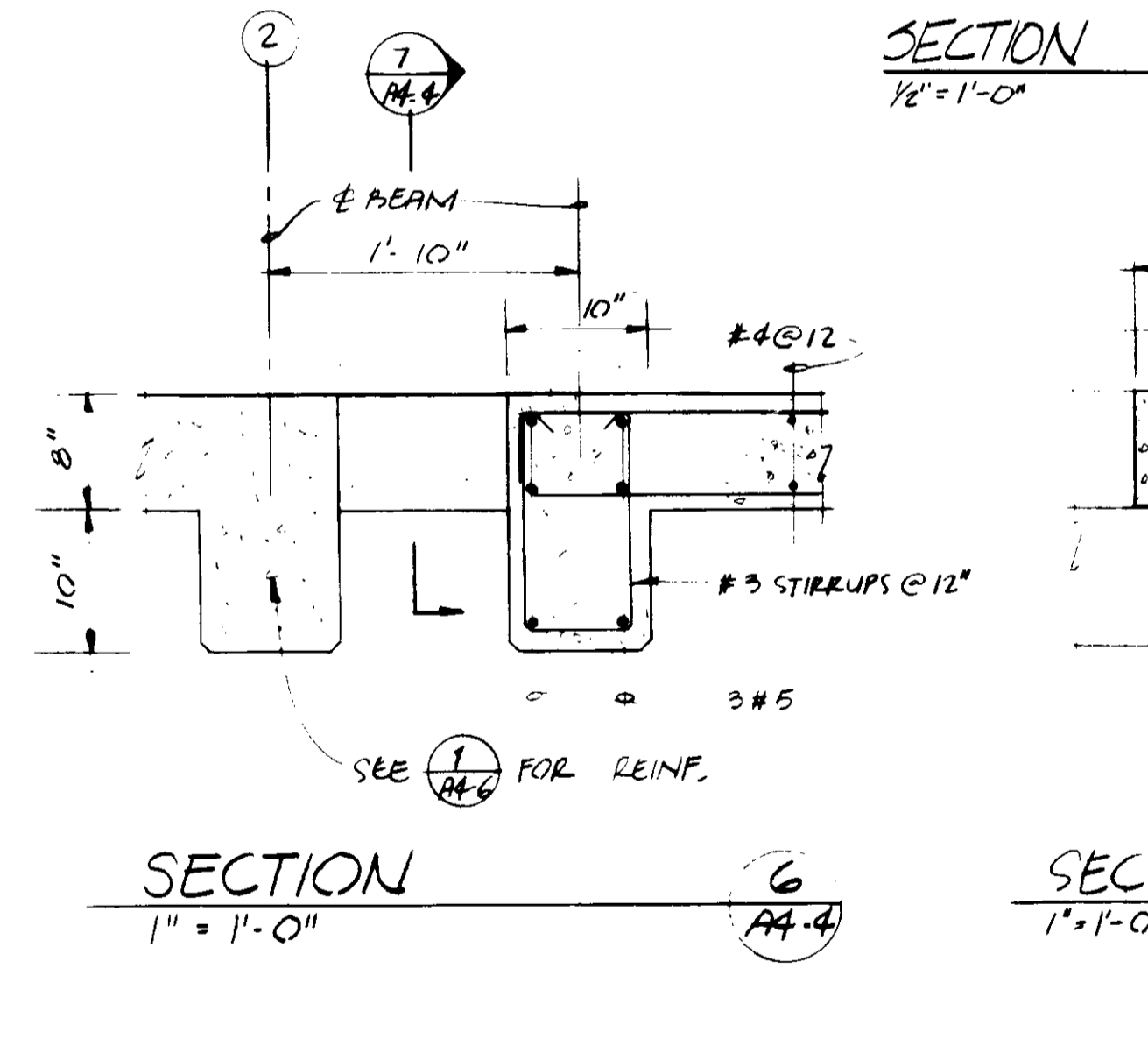
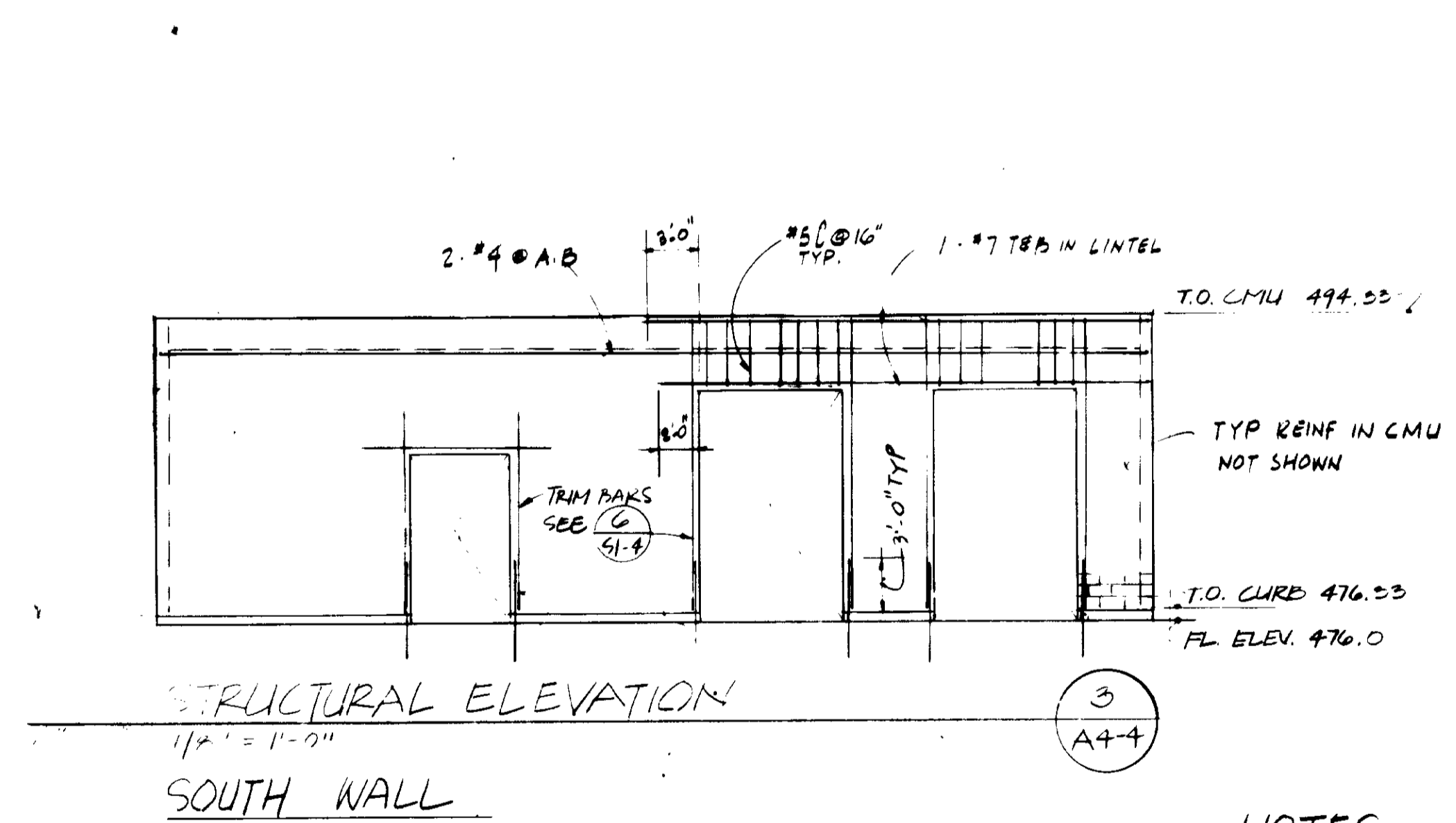
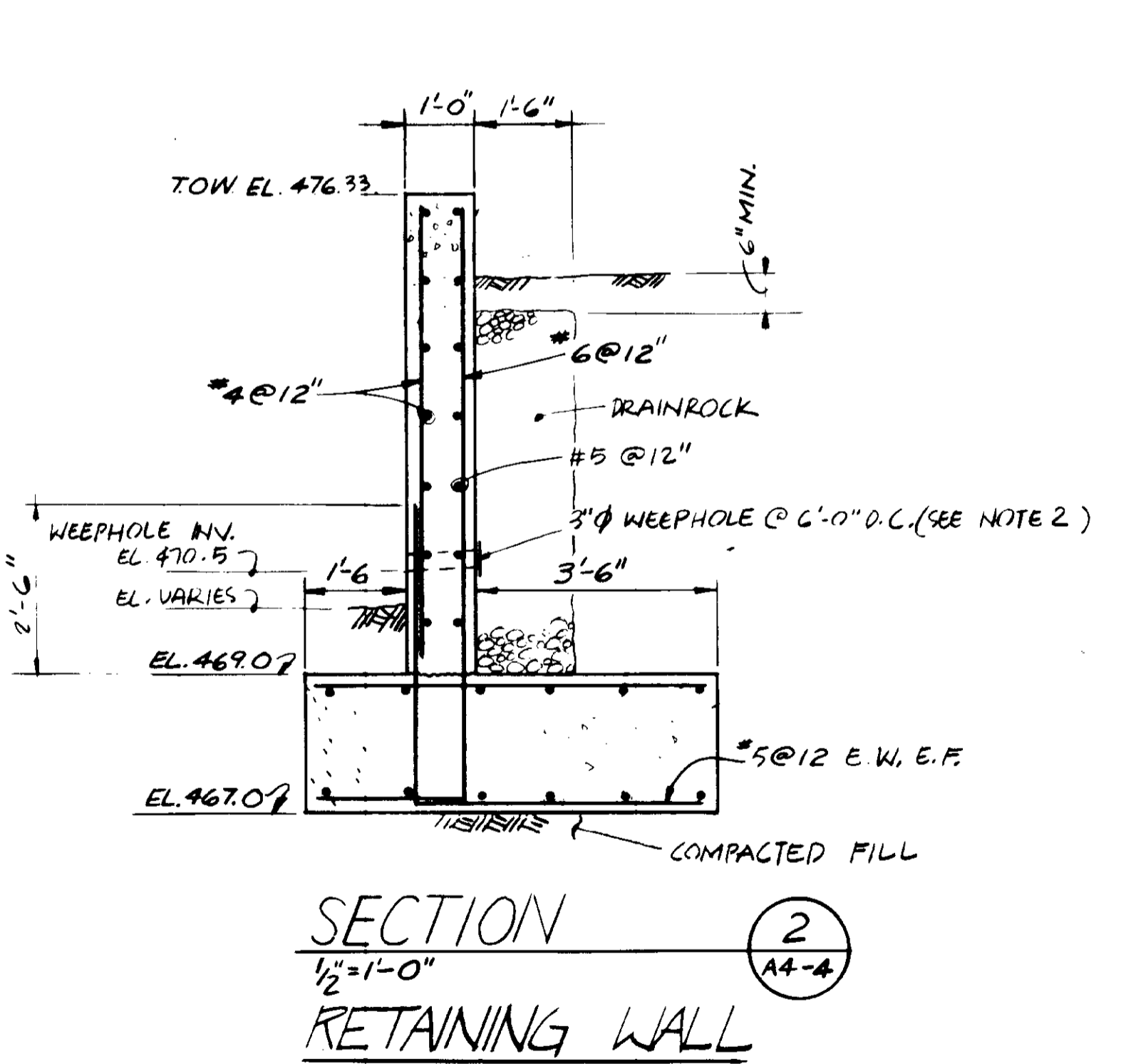
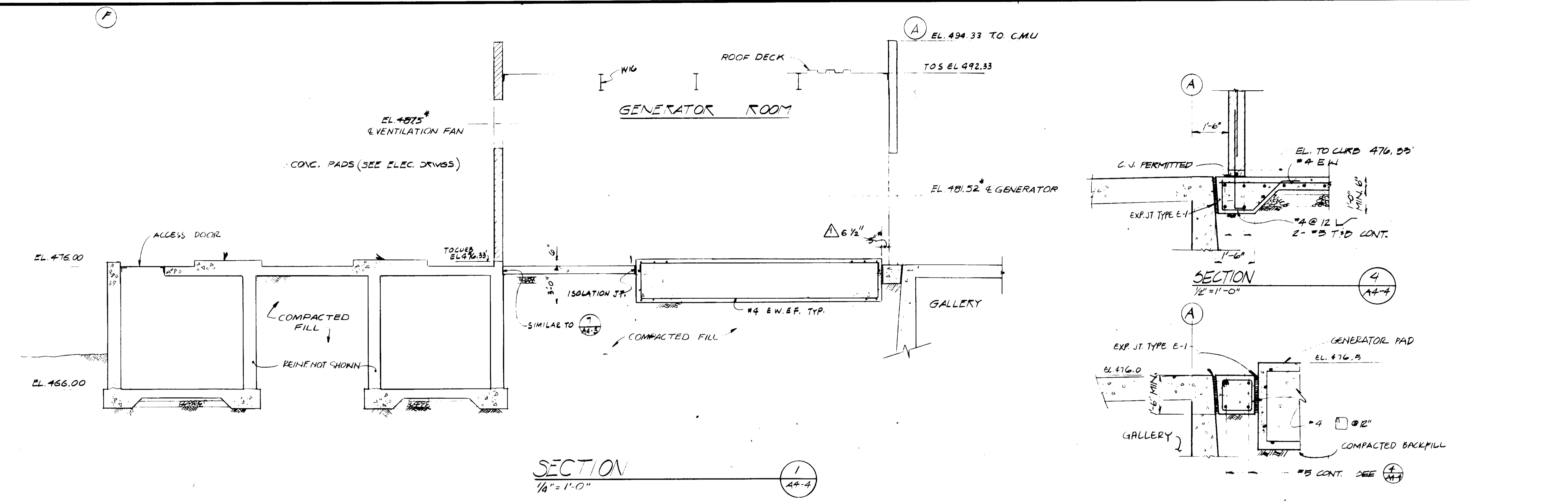
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	DESIGNED: NE RC	SUBMITTED: <i>Yip Katsura</i> 14038 11-5-79
DRAWN: RFP	CHECKED: <i>Yip Katsura</i>	PROJECT MANAGER: <i>Yip Katsura</i> 14038 11-5-79
		PROJECT ADMINISTRATOR: <i>Yip Katsura</i> 14884 11-5-79

JKE CONSULTING ENGINEERS
A JOINT VENTURE
8601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-9117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
ELECTRICAL BUILDING - SECTIONS

SHEET
A4-3



NOTES:

1. SYMBOL '*' DENOTES DIMENSION TO BE VERIFIED W/ MFR
2. USE 5" x 5" WIRE MESH BACKED BY 1 SQ. FT. OF FILTER CLOTH OVER WEEP HOLE. WIRE MESH SHALL BE 1/2" x 1/2" MESH 16 GA. WIRE, GALVANIZED AFTER WEAVING

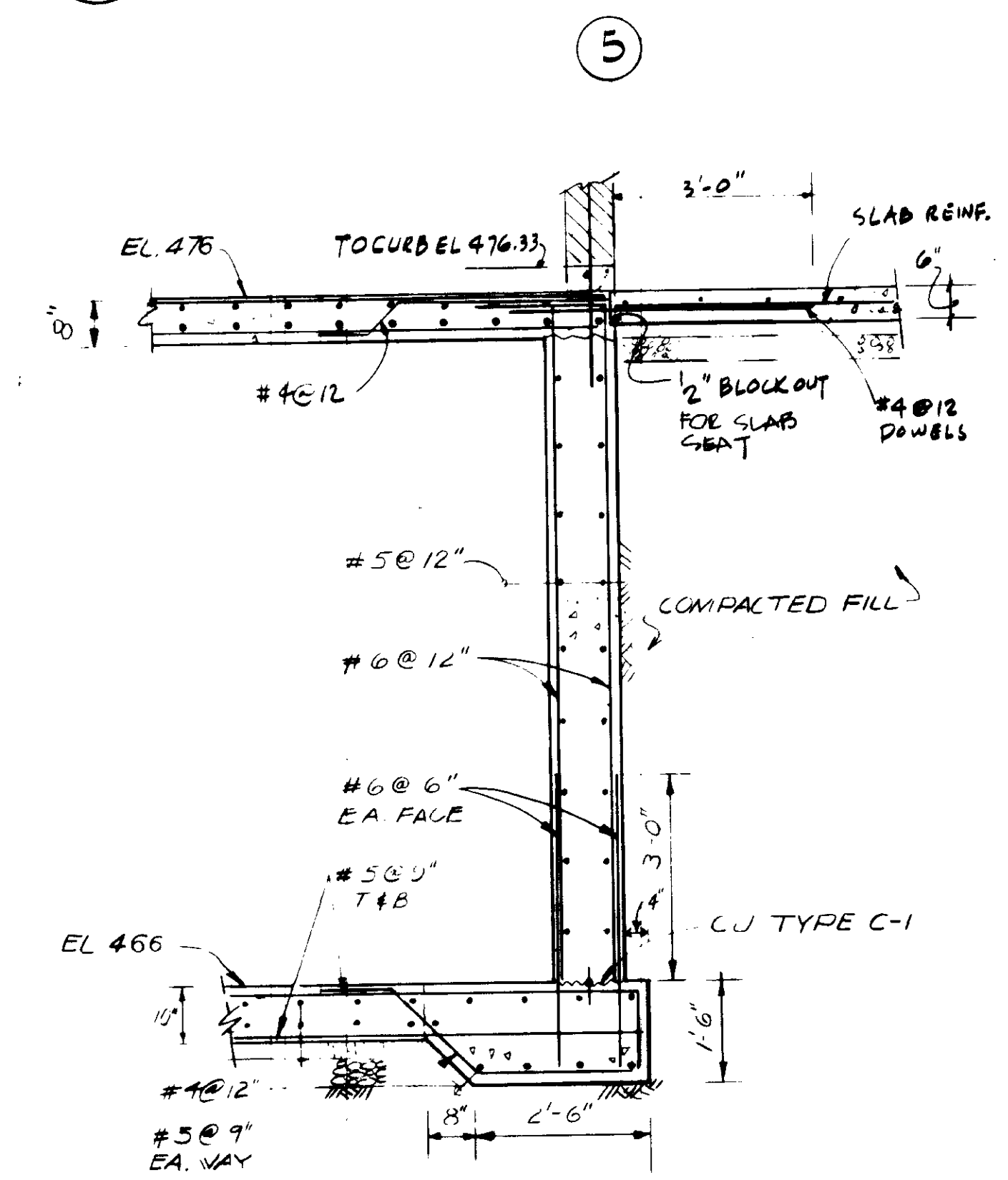
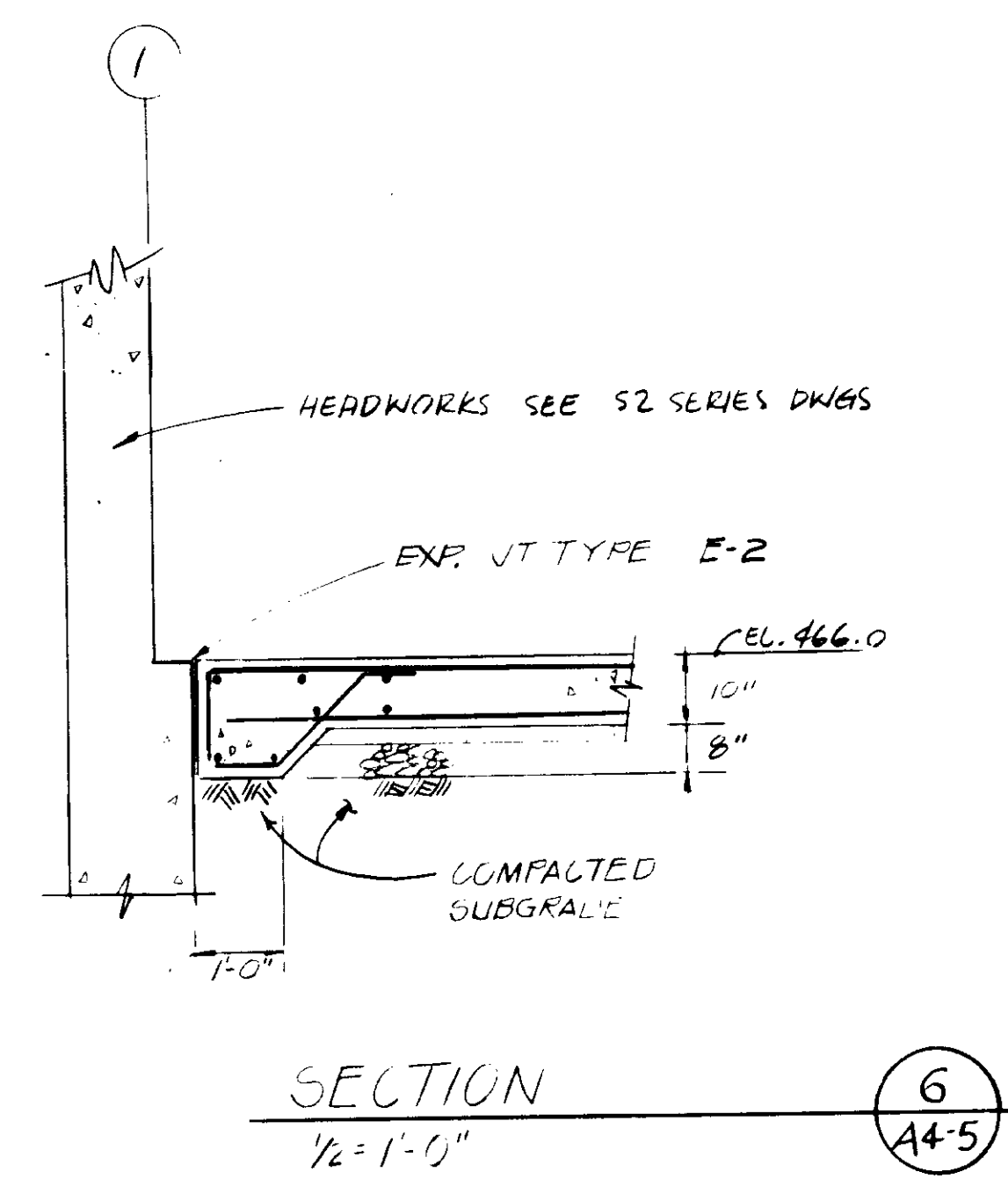
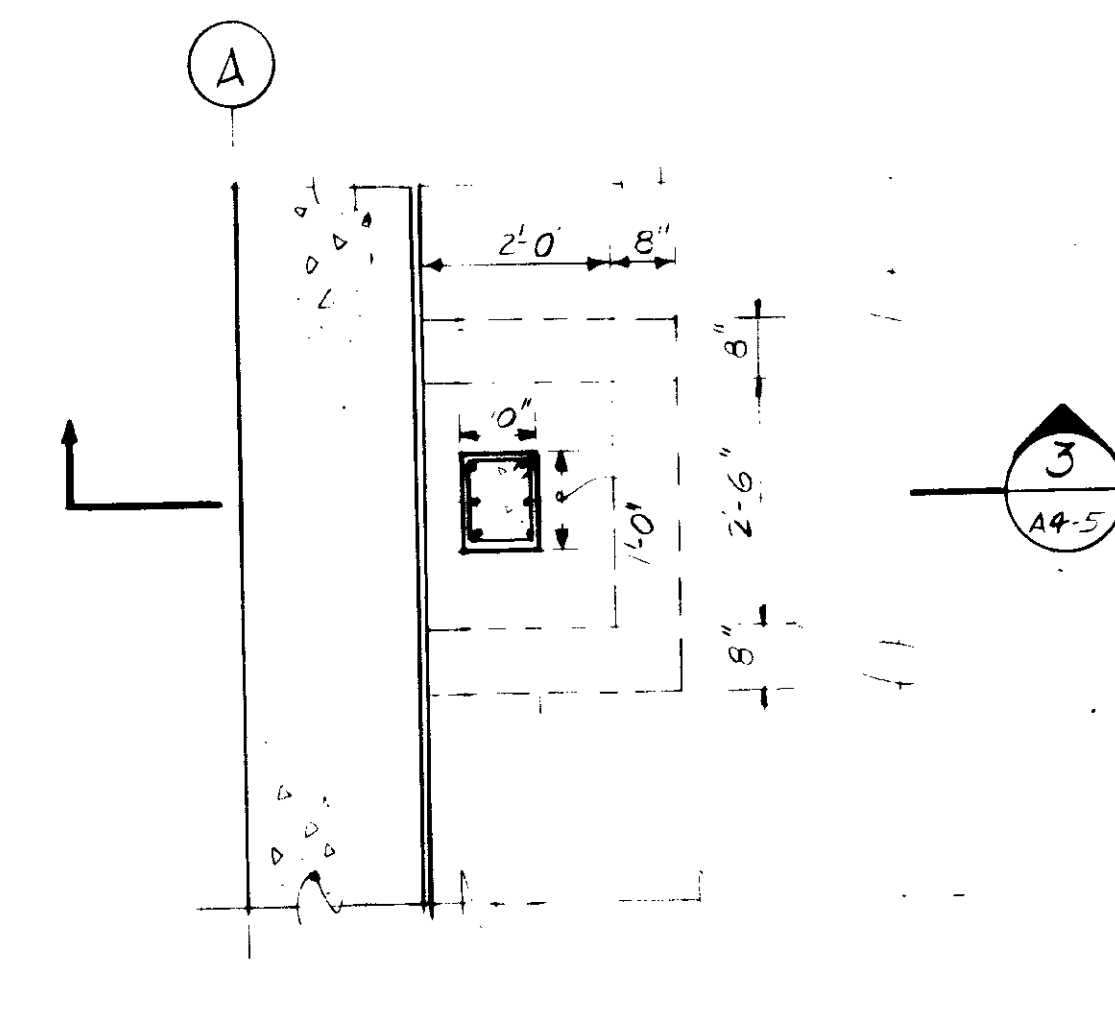
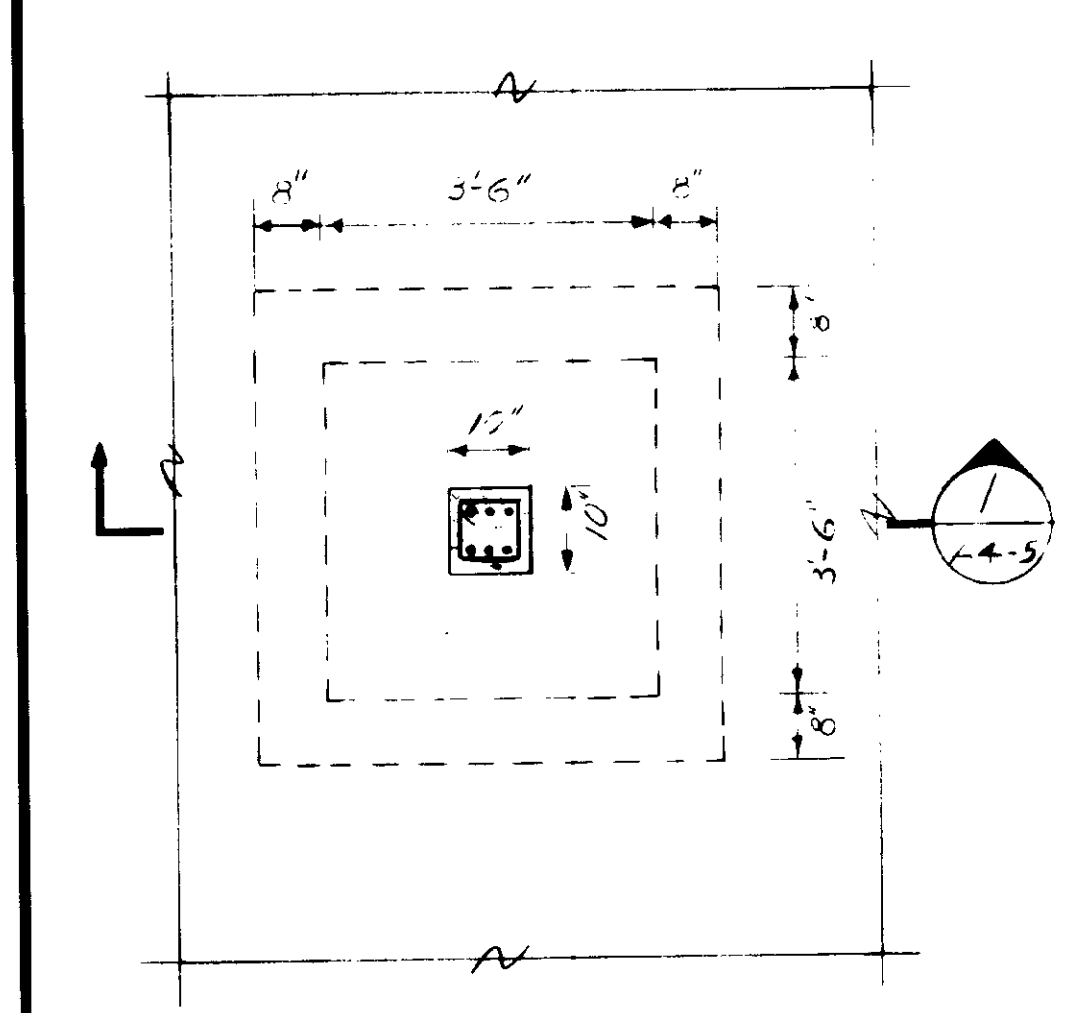
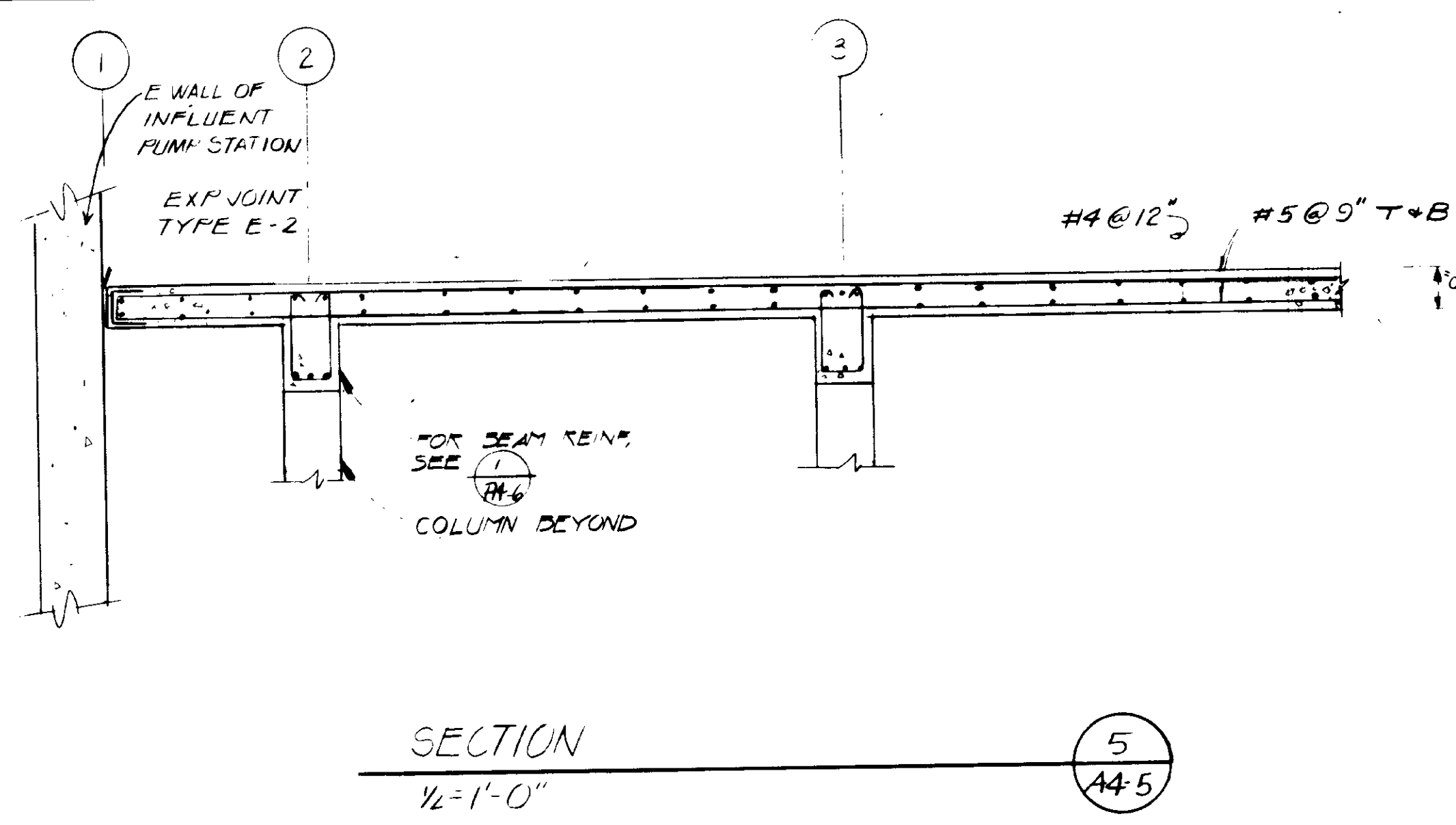
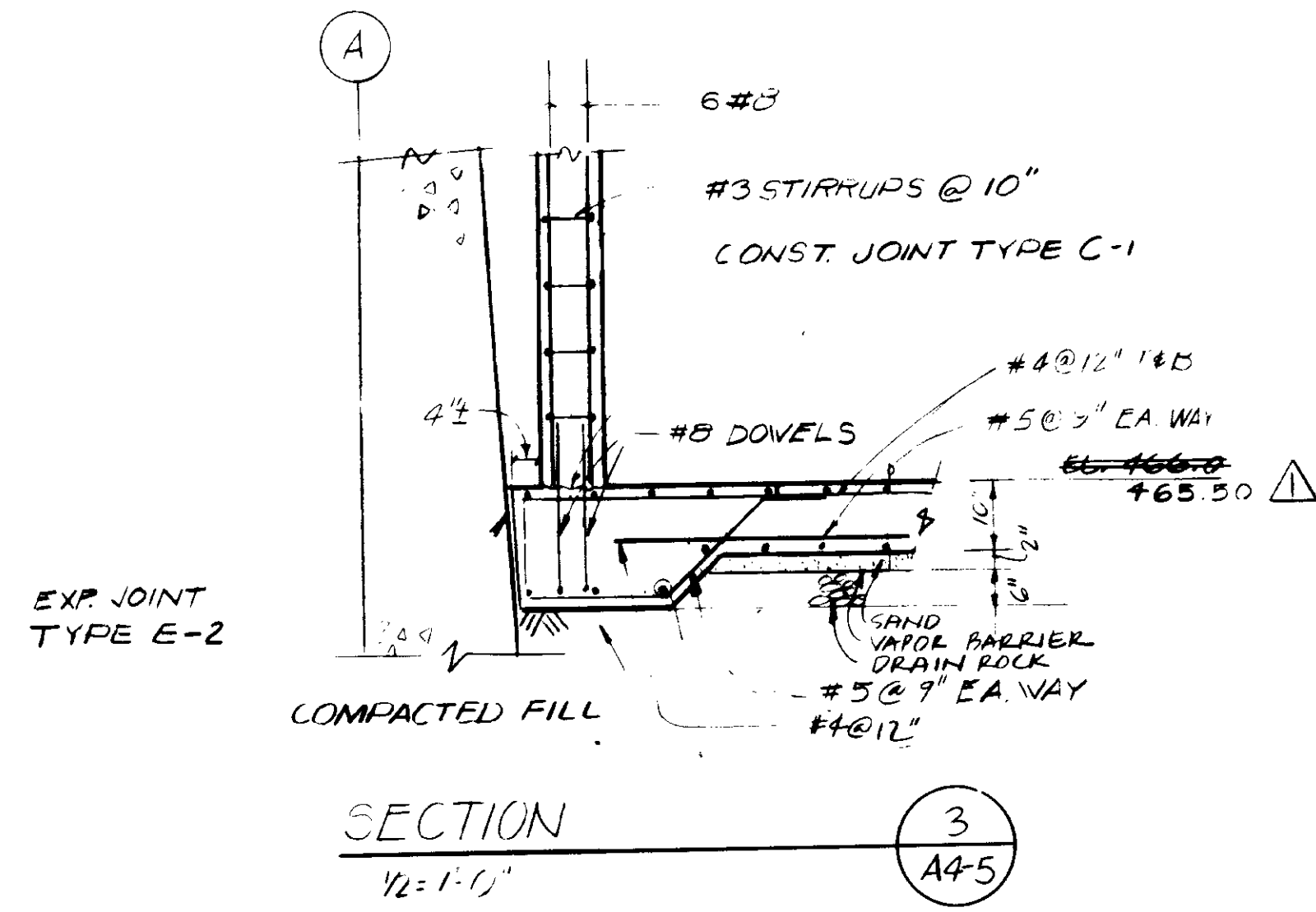
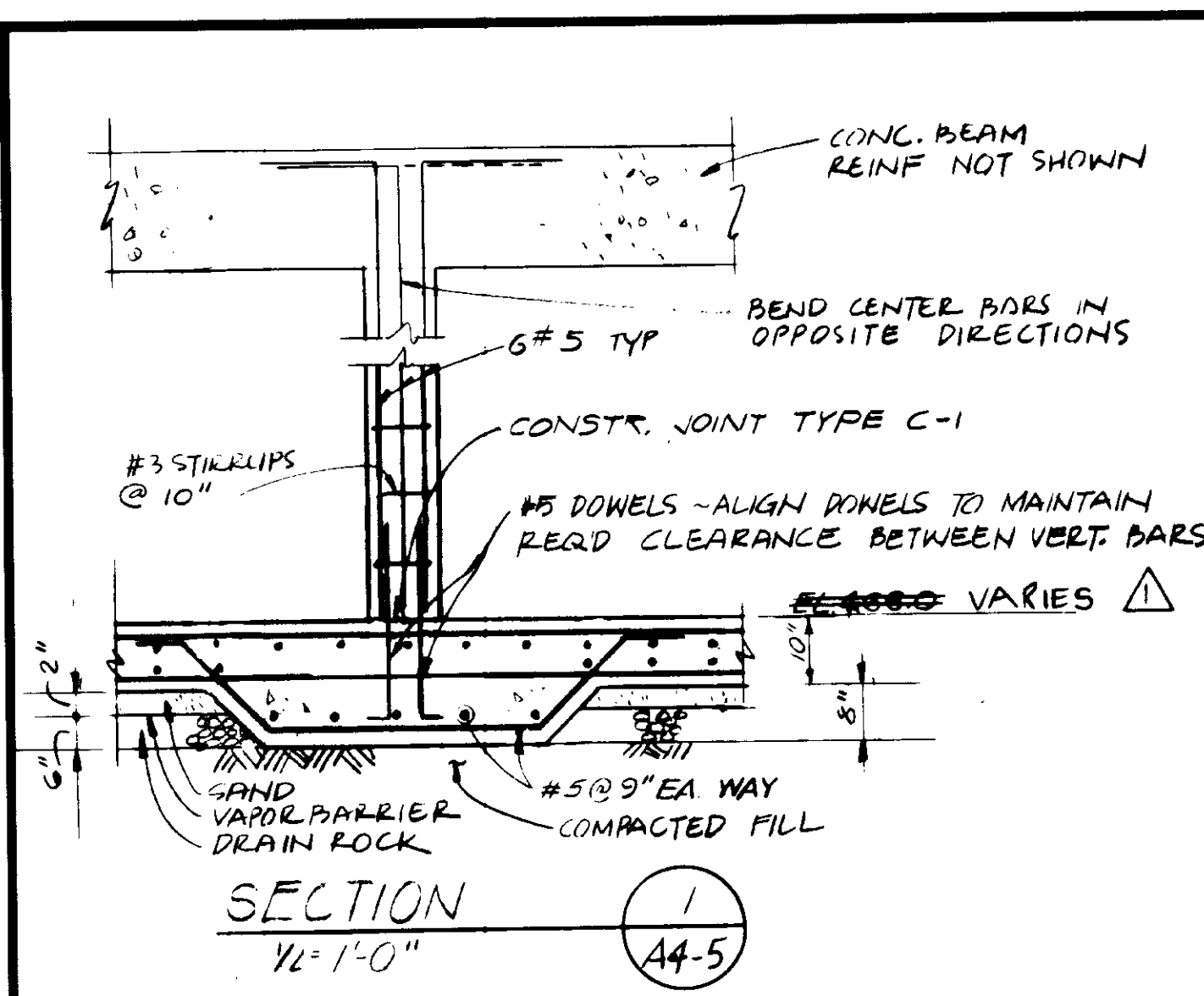
03154

RECORD DRAWINGS
 Per Field Information Provided By Morley-Ziebarth & Alper
Yuh Katsura RCE 14038
 KATSURA CONSULTING ENGINEERS March 1988

1/2" = 1'-0" scale
 1/4" = 1'-0" scale

GRAPHIC SCALES
 DRAWING MAY BE REDUCED IN REPRODUCTION.
 SCALES SHOWN APPLY TO SHEETS AS DRAWN.

SCALE: AS SHOWN AS/IT WT/RC DRW/ARP CHECKED		SUBMITTED: 14038 11-5-79 PROJECT MANAGER: R.C.E. NO. DATE PROJECT ADMINISTRATOR: 14894 11-5-79 R.C.E. NO. DATE		J&K CONSULTING ENGINEERS A JOINT VENTURE 5801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018 (213) 933-9117		LAS VIRGENES MUNICIPAL WATER DISTRICT SOLIDS HANDLING FACILITIES AT TAPIA W.R.F. ELECTRICAL BUILDING - SECTIONS & DETAILS		SHEET A4-4
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION	



DETAIL 2
1/2"=1'-0"
TYPICAL INTERIOR FOOTING
A4-5

DETAIL 4
1/2"=1'-0"
TYPICAL EXTERIOR FOOTING
A4-5

SECTION 6
1/2"=1'-0"
A4-5

SECTION 7
1/2"=1'-0"
A4-5

03155

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alder
[Signature] RCE 14088
MATSURA CONSULTING ENGINEERS March 1988
1/2"=1'-0" scale
GRAPHIC SCALES
DRAWING MAY BE REDUCED IN REPRODUCTION. SCALES SHOWN APPLY TO SHEETS AS DRAWN.

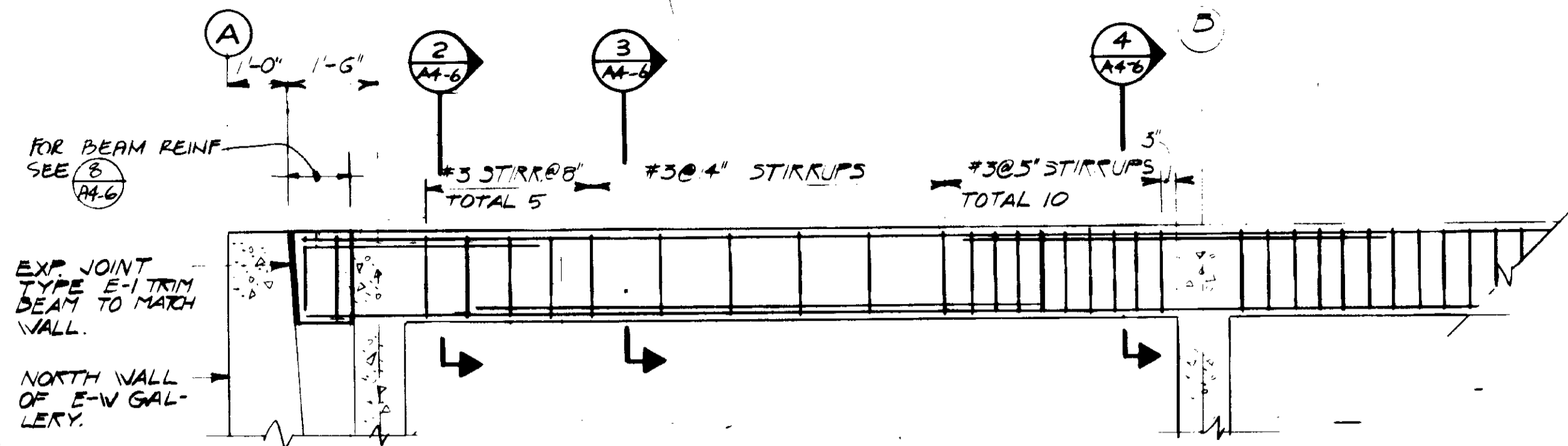
REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	AS DESIGNED EC	SUBMITTED <i>[Signature]</i> 14038 11-5-79
	DRAWN BRP	PROJECT MANAGER R.C.E. NO. DATE
	CHECKED	<i>[Signature]</i> 14884 11-5-79
		PROJECT ADMINISTRATOR R.C.E. NO. DATE

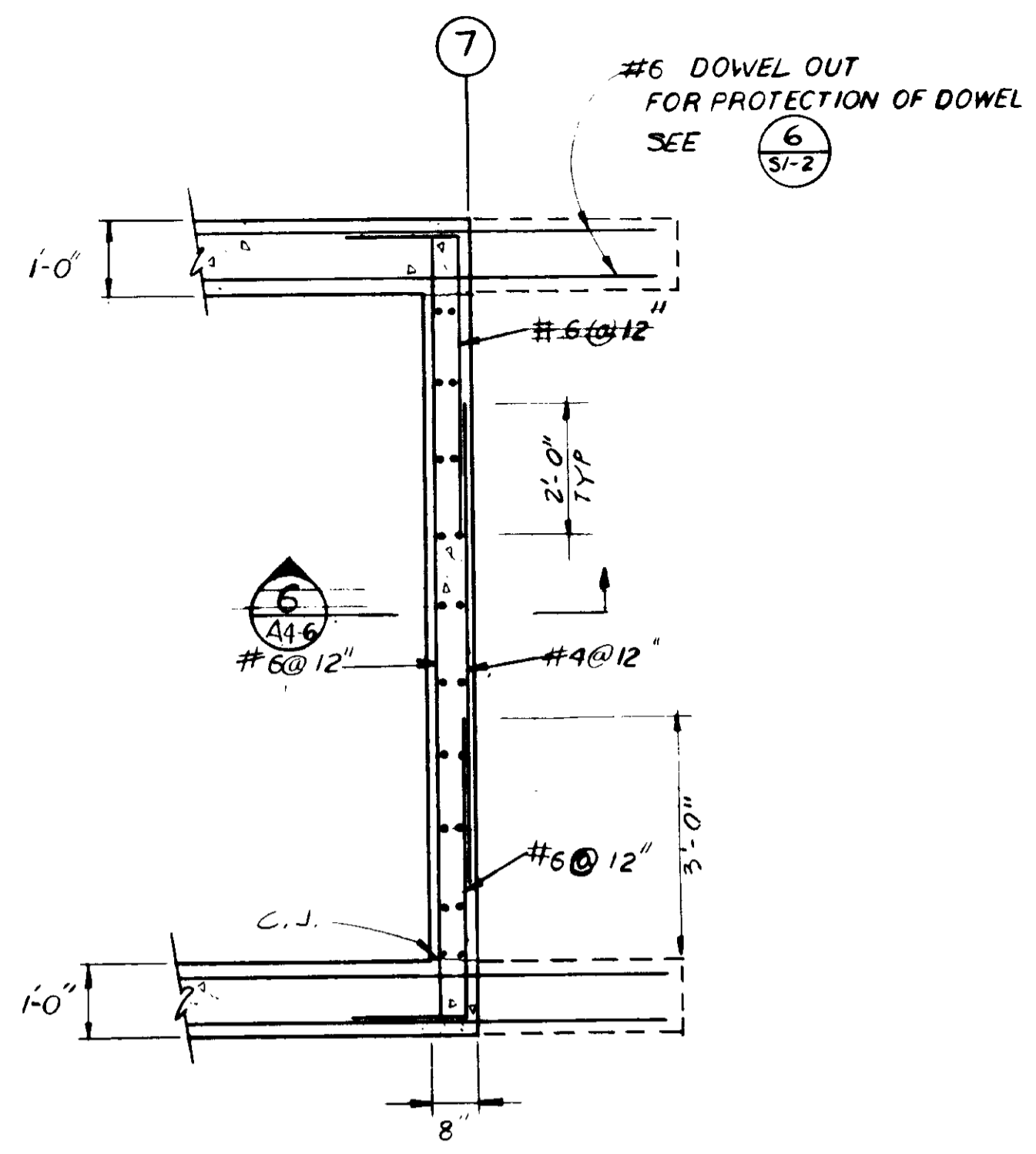
JKE CONSULTING ENGINEERS
A JOINT VENTURE
6801 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90018
(213) 933-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
ELECTRICAL BUILDING - SECTIONS & DETAILS

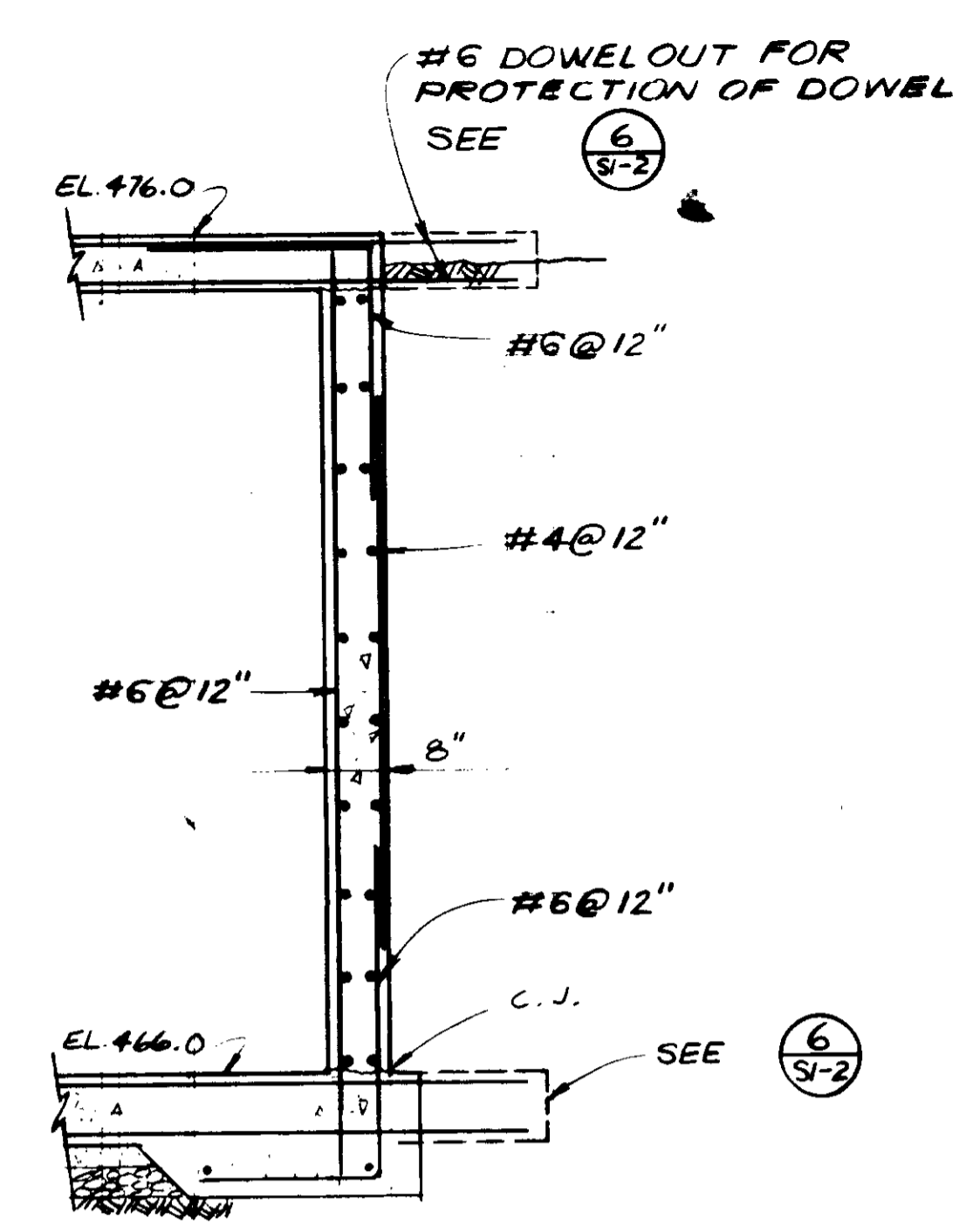
SHEET
A4-5



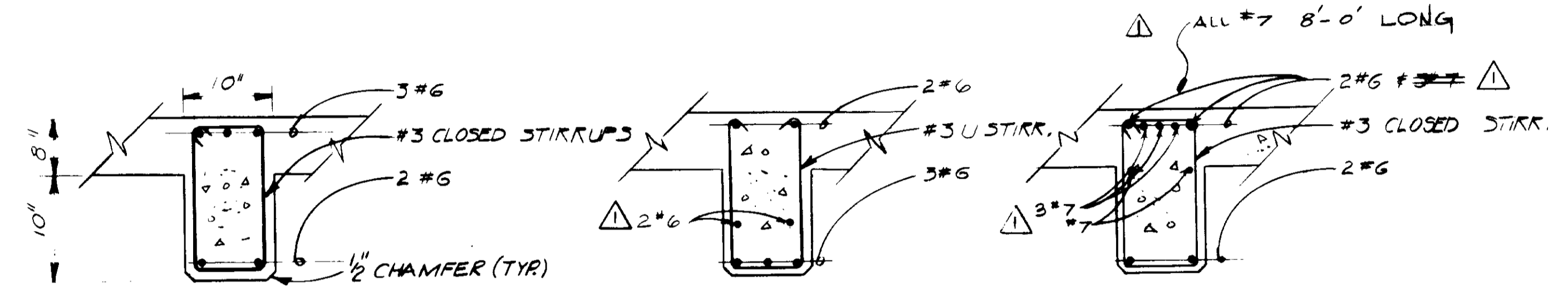
SECTION 1
1/2" = 1'-0"
TYPICAL BEAM REINFORCING
A4-6



PLAN 5
1/2" = 1'-0"
KNOCK OUT PANEL
A4-6



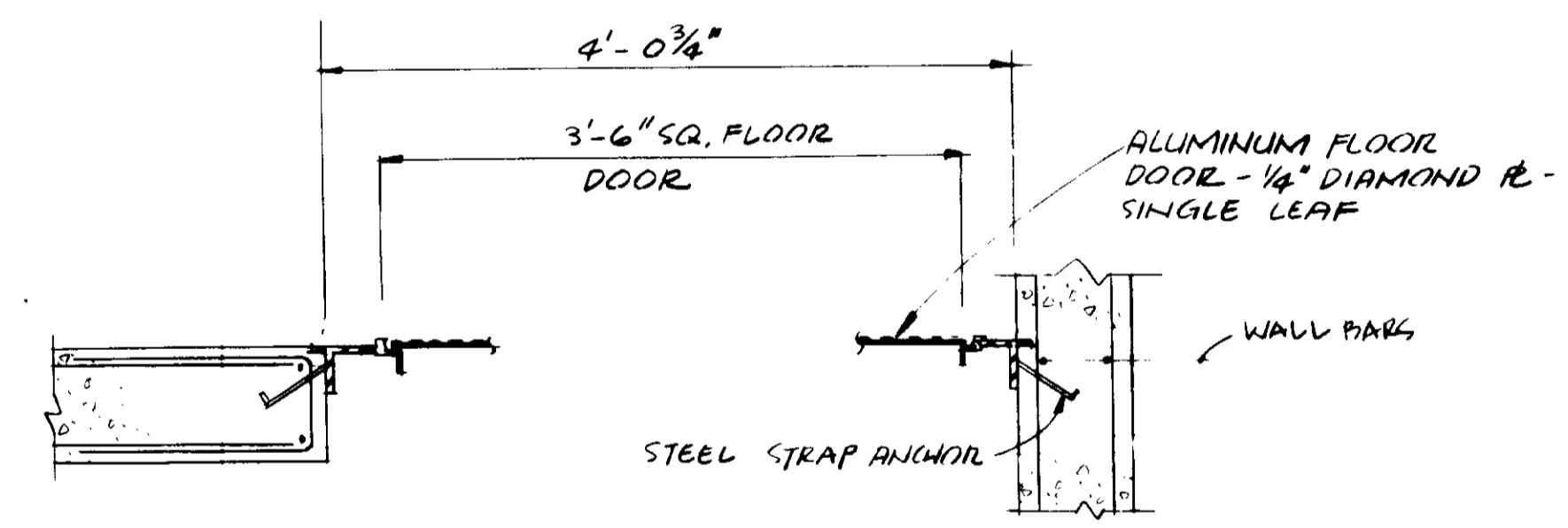
SECTION 6
1/2" = 1'-0"
A4-6



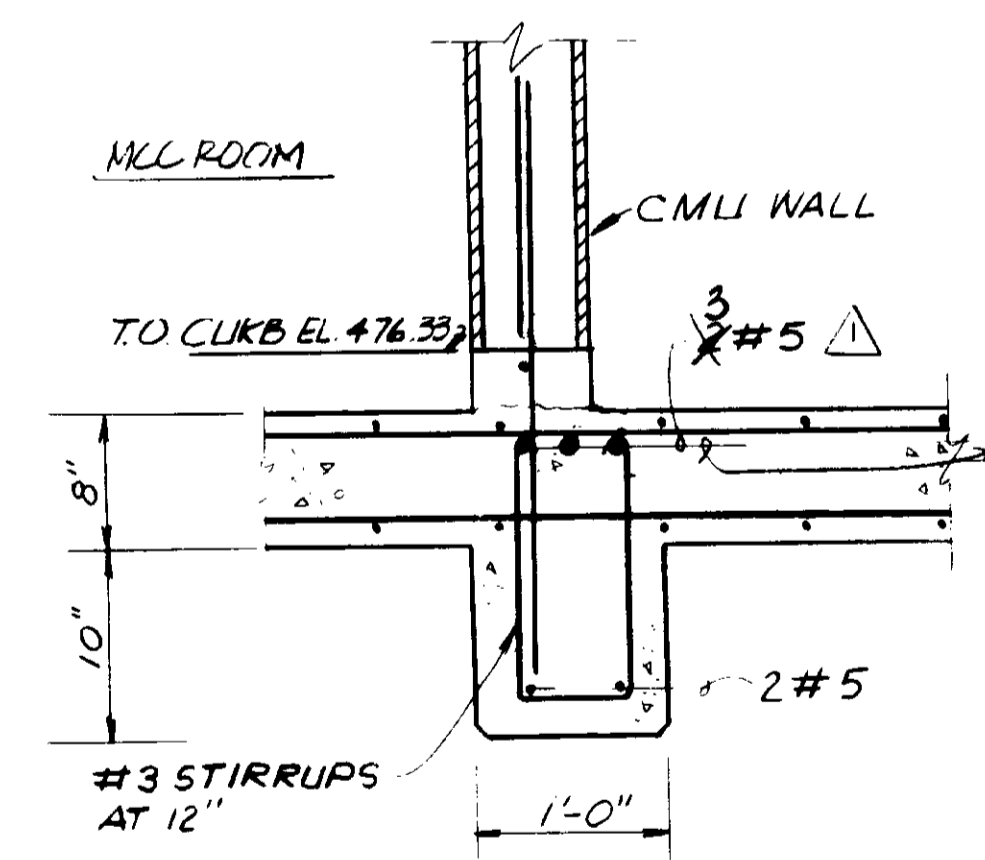
SECTION 2
1" = 1'-0"
A4-6

SECTION 3
1" = 1'-0"
A4-6

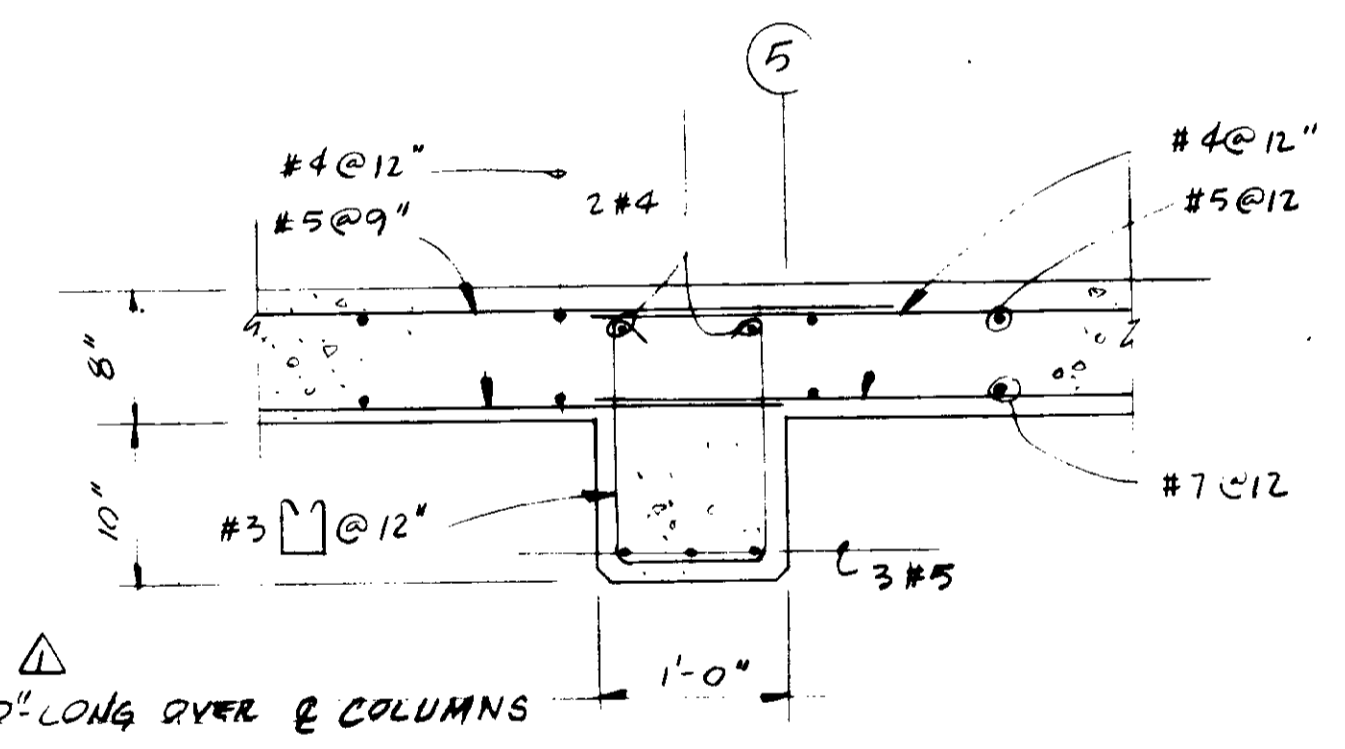
SECTION 4
1" = 1'-0"
A4-6



SECTION 7
1" = 1'-0"
A4-6



SECTION 8
1" = 1'-0"
A4-6

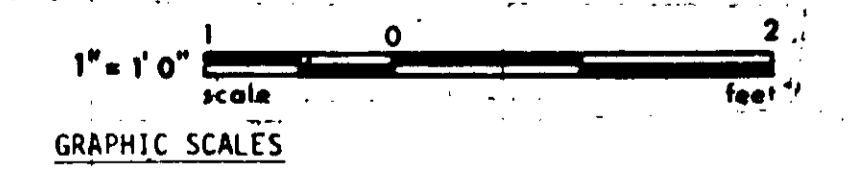


SECTION 9
1" = 1'-0"
A4-6

NOTE: BEAM @ 1'-0" FROM (A) SIMILAR

03156

RECORD DRAWINGS
Per Field Information Provided by Morley-Ziebarth & Alper
[Signature]
KATSURA CONSULTING ENGINEERS
RCE 14088
March 1988



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SCALES SHOWN APPLY TO SHEETS AS DRAWN.

REV	DATE	BY	DESCRIPTION

SCALE: AS SHOWN	DESIGNED: AS	PROJECT MANAGER: <i>[Signature]</i>	14038 11-5-79
	DRAWN: R.C./A.C.	PROJECT ADMINISTRATOR: <i>[Signature]</i>	R.C.E. NO. DATE
	CHECKED: A.R.P.		14884 11-5-79
			R.C.E. NO. DATE

JKS CONSULTING ENGINEERS
A JOINT VENTURE
5601 WEST WASHINGTON BOULEVARD, LOS ANGELES, CALIFORNIA 90016
(213) 933-8117

LAS VIRGENES MUNICIPAL WATER DISTRICT
SOLIDS HANDLING FACILITIES AT TAPIA W.R.F.
ELECTRICAL BUILDING - DETAILS

SHEET A4-6