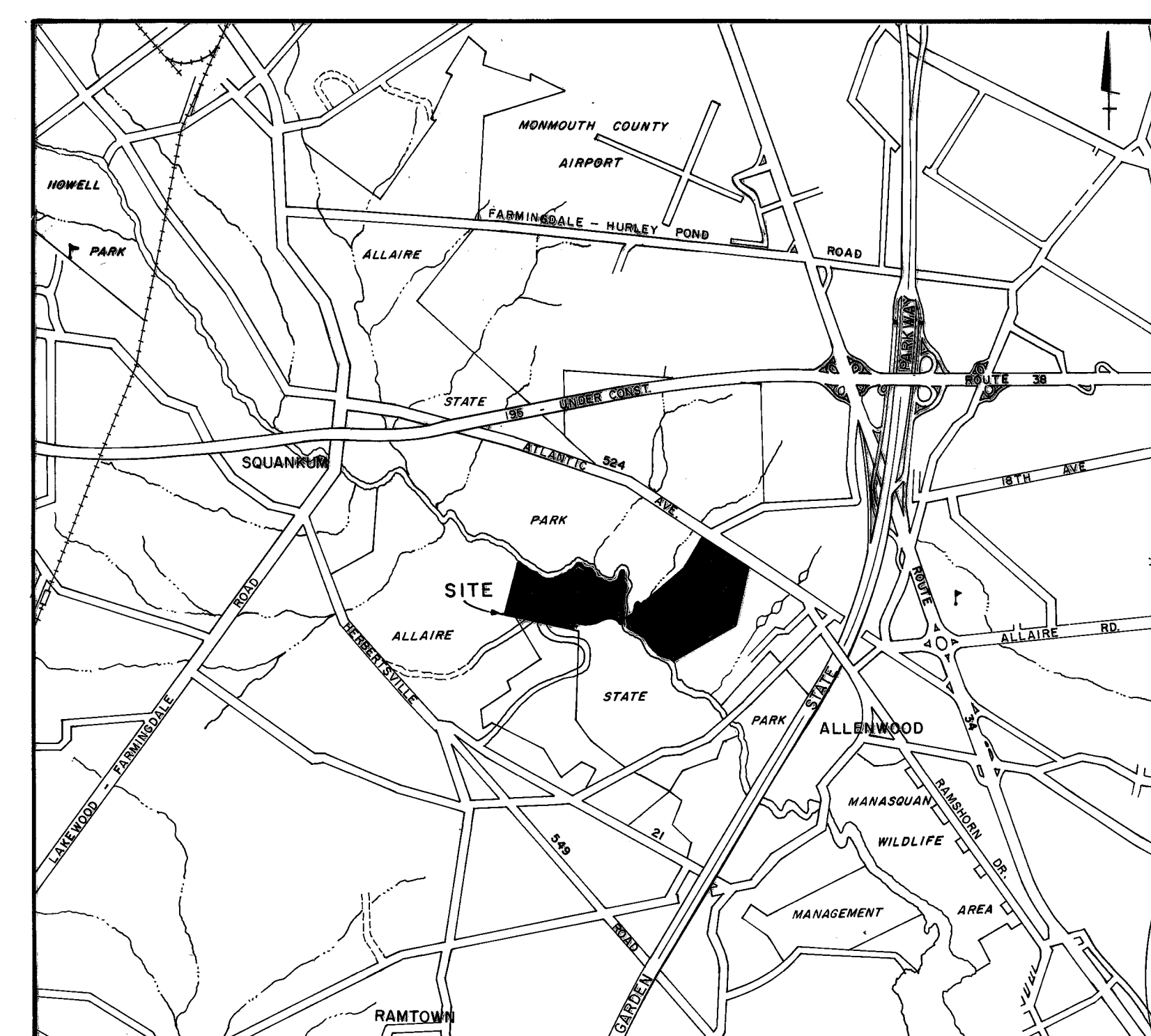


SPRING MEADOW GOLF COURSE

IRRIGATION SYSTEM AND WATER STORAGE IMPROVEMENTS

WALL TOWNSHIP
MONMOUTH COUNTY, NEW JERSEY

RECORD DRAWINGS



KEY MAP
SCALE: 1"=4000'

DRAWING INDEX	
DWG. No.	DESCRIPTION
1	TITLE SHEET
2	PIPING PLAN (FRONT NINE)
3	PIPING PLAN (BACK NINE)
4	PROGRAMING SEQUENCE PLAN (FRONT NINE)
5	PROGRAMING SEQUENCE PLAN (BACK NINE)
6	CONTROL WIRING PLAN (FRONT NINE)
7	CONTROL WIRING PLAN (BACK NINE)
8	SITE PLAN - CLUB HOUSE
9	SITE PLAN - PUMP HOUSE AND MISCELLANEOUS DETAILS
10	PUMP HOUSE - ARCHITECTURAL & STRUCTURAL PLANS, SECTIONS & DETAILS
11	PUMP HOUSE - MECHANICAL PLAN, SECTIONS & DETAILS
12	POND EXCAVATION AND MISCELLANEOUS DETAILS
13	PUMP HOUSE - ELECTRICAL PLAN

STATE OF NEW JERSEY

DEPARTMENT OF THE TREASURY
MICHAEL M. HORN TREAS.

DIVISION OF BUILDING AND CONSTRUCTION

JAMES G. TON DIRECTOR

AWWENSLEY STATE ARCHITECT

DEPARTMENT OF ENVIRONMENTAL PROTECTION
COMMISSIONER

ROBERT E. HUGHEY

DIVISION OF PARKS AND FORESTRY
DIRECTOR

RUSSELL W. MYERS

DBC P403

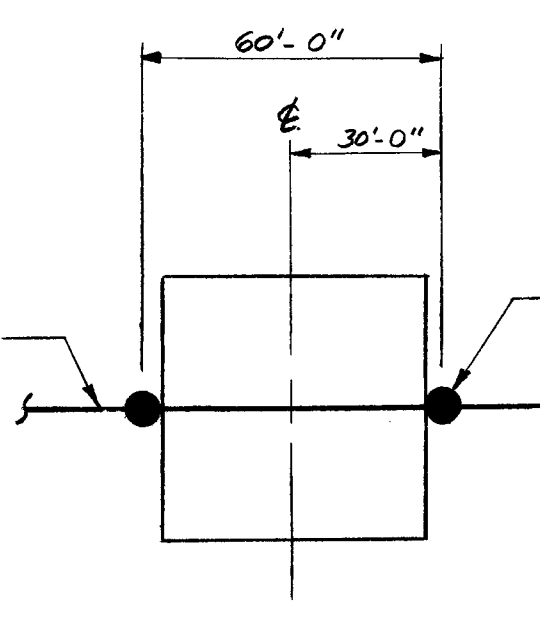
PREPARED BY

FELLOWS READ & ASSOCIATES

CONSULTING ENGINEERS

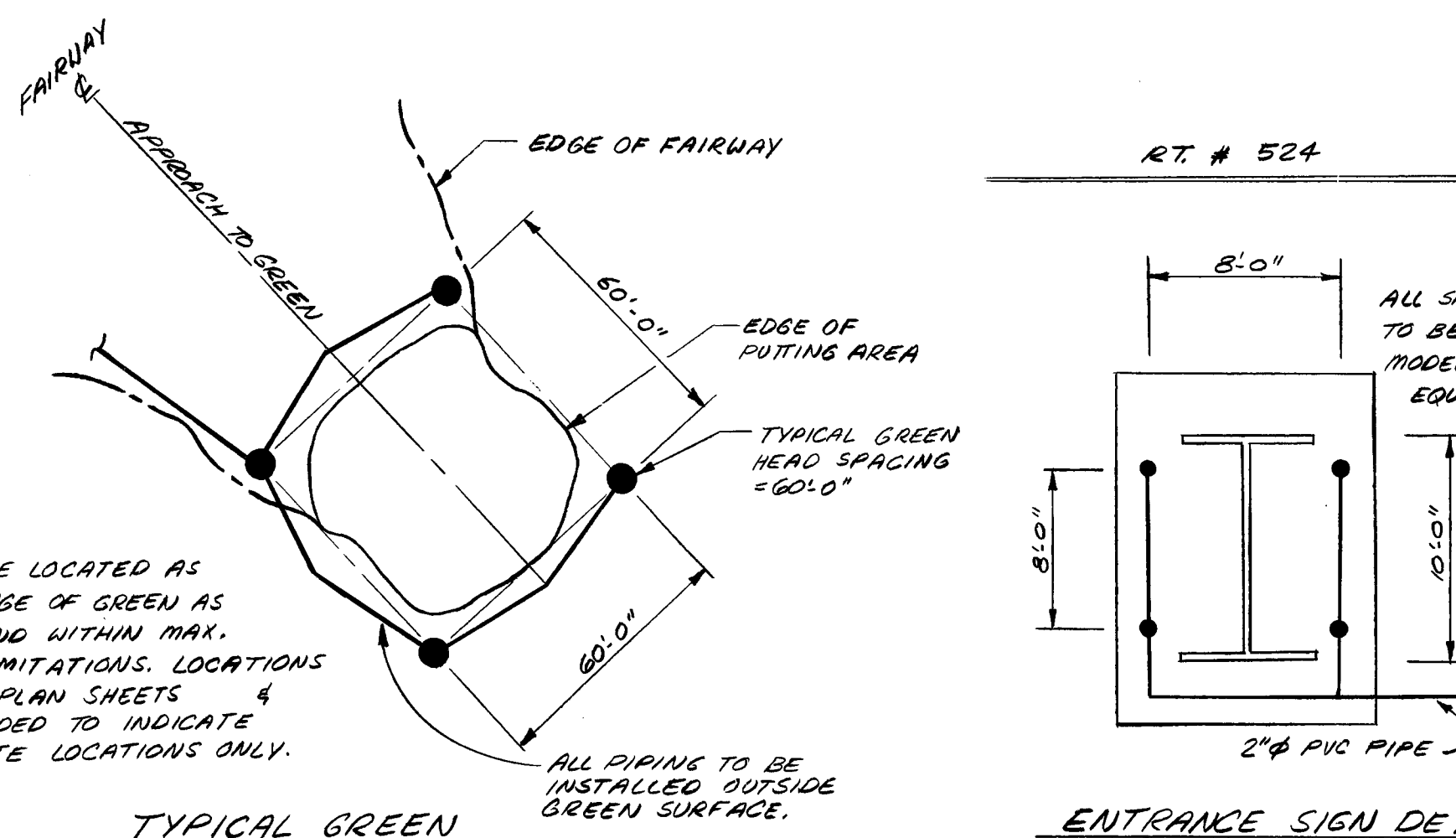
310 MAIN STREET

TOMS RIVER, N.J.

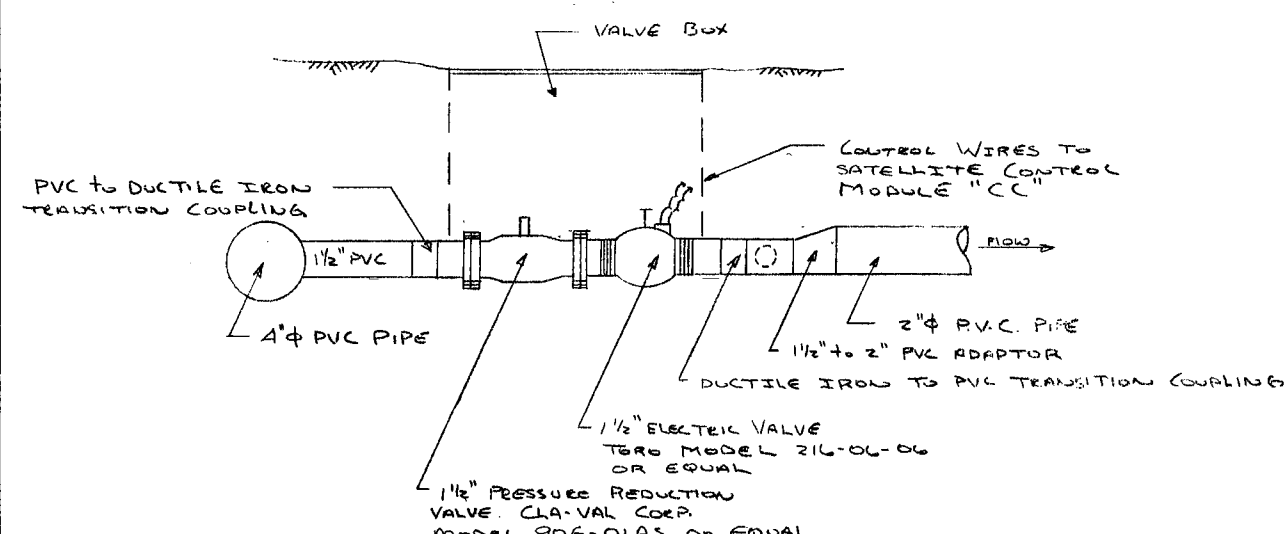


TYPICAL TEE
GREATER THAN 60'-0" IN
LENGTH

TYPICAL TEE
LESS THAN 60' IN LENGTH



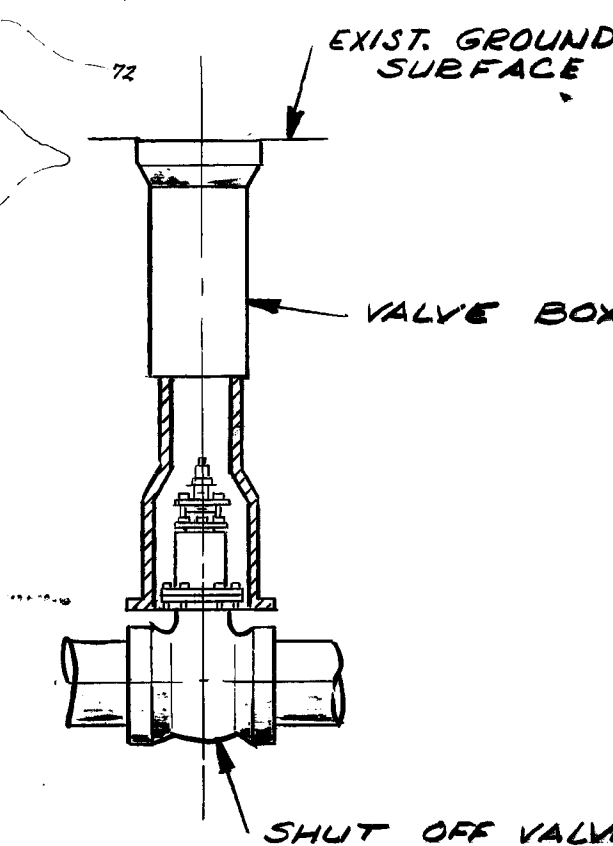
ENTRANCE SIGN DETAIL



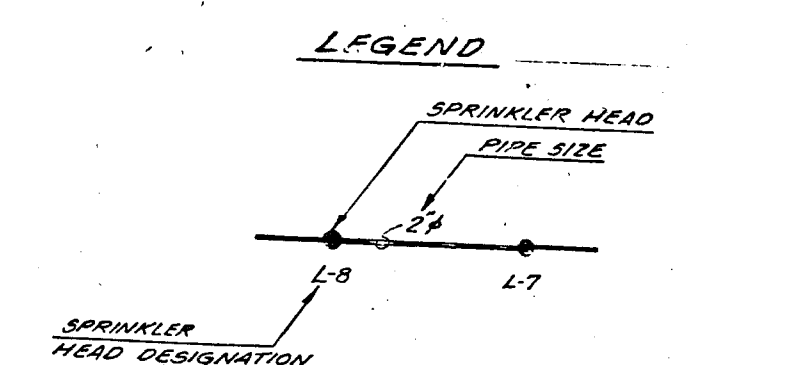
PRESSURE REDUCTION VALVE
DETAIL
N.T.S.

SPOIL SITE NOTES

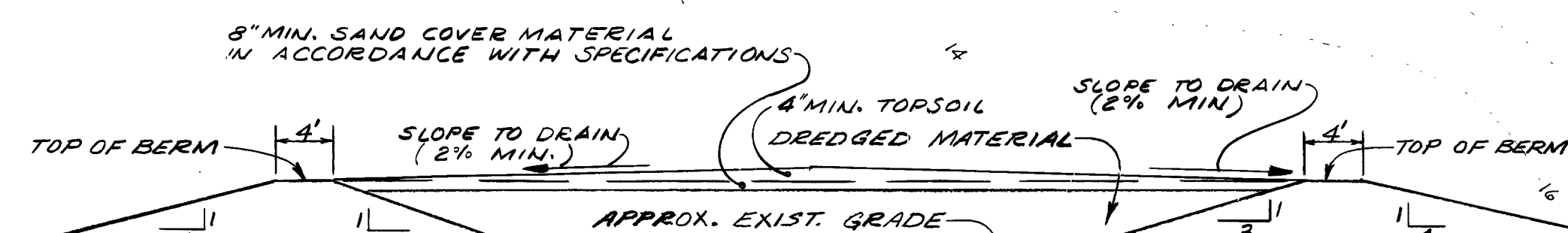
1. Existing material to be excavated within spoil site area to be used in the berm construction.
2. Dikes and spoil containment structures to be so constructed as to guarantee no leakage or erosion of spoil material.
3. Berms, dikes, and soil surfaces denuded of vegetation outside of the immediate area of spoil placement shall be seeded immediately. Seeding mixtures are specified in Section 0201.
4. Chemical soil stabilizers, mulches, or mulch tanks may be used to stabilize erosion prone areas when structural factors preclude seed germination.
5. When and where indicated by the director, additional flow or structural dikes shall be placed around the spoil site to intercept flows of spill-silted water.
6. When indicated by the director, additional lime shall be placed on the surface of the spoil material to mitigate objectionable odors.
7. Upon completion of the spoil operation the site shall be graded to drain, fertilized, seeded, and mulched in accordance with the approved plan.



VALVE BOX DETAIL
N.T.S.



- - FULL THROW HEAD
- ◐ - 1/2 THROW HEAD
- - 6" FORCE MAIN
- + — - SHUT-OFF VALVE IN VALVE BOX
- ▲ - LOCATION OF QUICK COUPLING VALVE



EXCAVATED MATERIAL TO
BE USED IN BERM CONSTRUCTION
(WHERE SUITABLE)

TYPICAL SECTION
THRU SPOIL SITE
NOT TO SCALE

SPRINKLER HEAD SCHEDULE									
90° RADIUS 1/4 THROW SINGLE HEADS	90° RADIUS 1/2 THROW DOUBLE HEADS	90° RADIUS (HAWKWAYS) SINGLE HEADS	90° RADIUS (HAWKWAYS) DOUBLE HEADS	60° RADIUS (HAWKWAYS) DOUBLE HEADS	60° RADIUS (HAWKWAYS) DOUBLE HEADS	60° RADIUS (HAWKWAYS) SINGLE HEADS	60° RADIUS 1/4 THROW DOUBLE HEADS	60° RADIUS 1/2 THROW DOUBLE HEADS	60° RADIUS 1/2 THROW SINGLE HEADS
61 G.P.M./HEAD @ 30 P.S.I.	61 G.P.M./HEAD @ 30 P.S.I.	61 G.P.M./HEAD @ 30 P.S.I.	61 G.P.M./HEAD @ 30 P.S.I.	45.5 G.P.M./HEAD @ 30 P.S.I.	45.5 G.P.M./HEAD @ 30 P.S.I.	45.5 G.P.M./HEAD @ 30 P.S.I.	45.5 G.P.M./HEAD @ 30 P.S.I.	45.5 G.P.M./HEAD @ 30 P.S.I.	45.5 G.P.M./HEAD @ 30 P.S.I.
U-4 V-5 BB-B	U-2 O-1 R-2 R-4-R-5 S-1, S-3, S-7 T-2, T-4, T-7, T-9 U-3, U-6 Z-2-Z-5, Z-7 AA-2	D-5 - D-7 J-10 K-3 L-7 M-1 - M-3 N-5 R-1, R-7, R-8 U-6 V-1, V-9, Y-2 Z-1 BB-7	J-1, J-3, J-5 - J-9 K-1, K-2, K-4 - K-8 L-1 - L-6, L-8, L-9 M-4 - M-9 N-1 - N-4 O-2 - O-10 Q-5 - Q-10 R-8, R-6, R-9, R-10 S-2, S-4 - S-6, S-8, S-9 T-1, T-3, T-6, T-8 U-1, U-2, U-5 V-2, V-4, V-6 - V-8 W-1 - W-9 X-1 - X-9 Y-7 - Y-9 Z-3, Z-4, Z-6 AA-1, AA-3 - AA-6 BB-1 - BB-6	A-1, A-2, A-4, A-5 B-1, B-2, B-5, B-4 C-1, C-2 D-2, D-3 E-1 - E-4, E-6, E-7 F-2, F-3, F-5 G-2, G-3, G-5, G-6 H-1, H-2, H-4, H-5 H-7, H-8 I-1, I-2, I-4, I-5	A-3, A-6 B-3, C-3, D-4 E-5, E-8 F-1, F-6 G-1, G-4, H-3, H-6 J-3 K-1 - K-9 Y-5	R-10 Y-1 C-4 B-6	D-1 Q-7	C-5 B-7	
TORO MODEL N3 692-06-.91 OR APPROVED EQUAL	TORO MODEL 692-06-.91 OR APPROVED EQUAL	TORO MODEL N2 694-06-.91 OR APPROVED EQUAL	TORO MODEL N18 674-06-.71 OR APPROVED EQUAL	TORO MODEL N2 658-06-.56 OR APPROVED EQUAL	TORO MODEL N2 654-06-.56 OR APPROVED EQUAL	TORO MODEL N1 654-06-.56 OR APPROVED EQUAL	TORO MODEL N2 652-06-.56 OR APPROVED EQUAL	TORO MODEL N2 652-06-.56 OR APPROVED EQUAL	TORO MODEL N2 652-06-.56 OR APPROVED EQUAL

- ## NOTES
1. FOR TYPICAL FAIRWAY DIMENSIONS SEE PROGRAMMING SEQUENCE PLANS
 2. FORCE MAIN SHALL FOLLOW EDGE OF EXISTING GRAVEL ROAD
 3. CONTRACTOR TO STAKE ALL SPRINKLER HEAD LOCATIONS PRIOR TO CONSTRUCTION FOR LOCATION AND DIRECTION OF THE DUCTOR PRIOR TO INSTALLATION OF ANY PIPING OR HEADS.
 4. HEAD LOCATION DIMENSIONS ARE SHOWN ON SHEETS 4 OF 13 AND 5 OF 13.
 5. CONTRACTOR TO STAKE ALL LIMITS OF SHOULDER, DRIVE DRIVE, SIDEWALK, FOR ELEVATION RAILROAD BY THE DIRECTOR PRIOR TO INITIATION OF SPOIL REMOVAL.

"The "Record" information added to this drawing has been supplied by the contractor. The Architect/Engineer does not assume the responsibility for its accuracy other than conformity with the design concept and general adequacy of the "Record" information to the best of the Architect/Engineer's knowledge."

[illegible]

FELLOWS, READ & ASSOC., INC.
CONSULTING ENGINEERS
310 MAIN STREET
TOMS RIVER, NEW JERSEY 08753

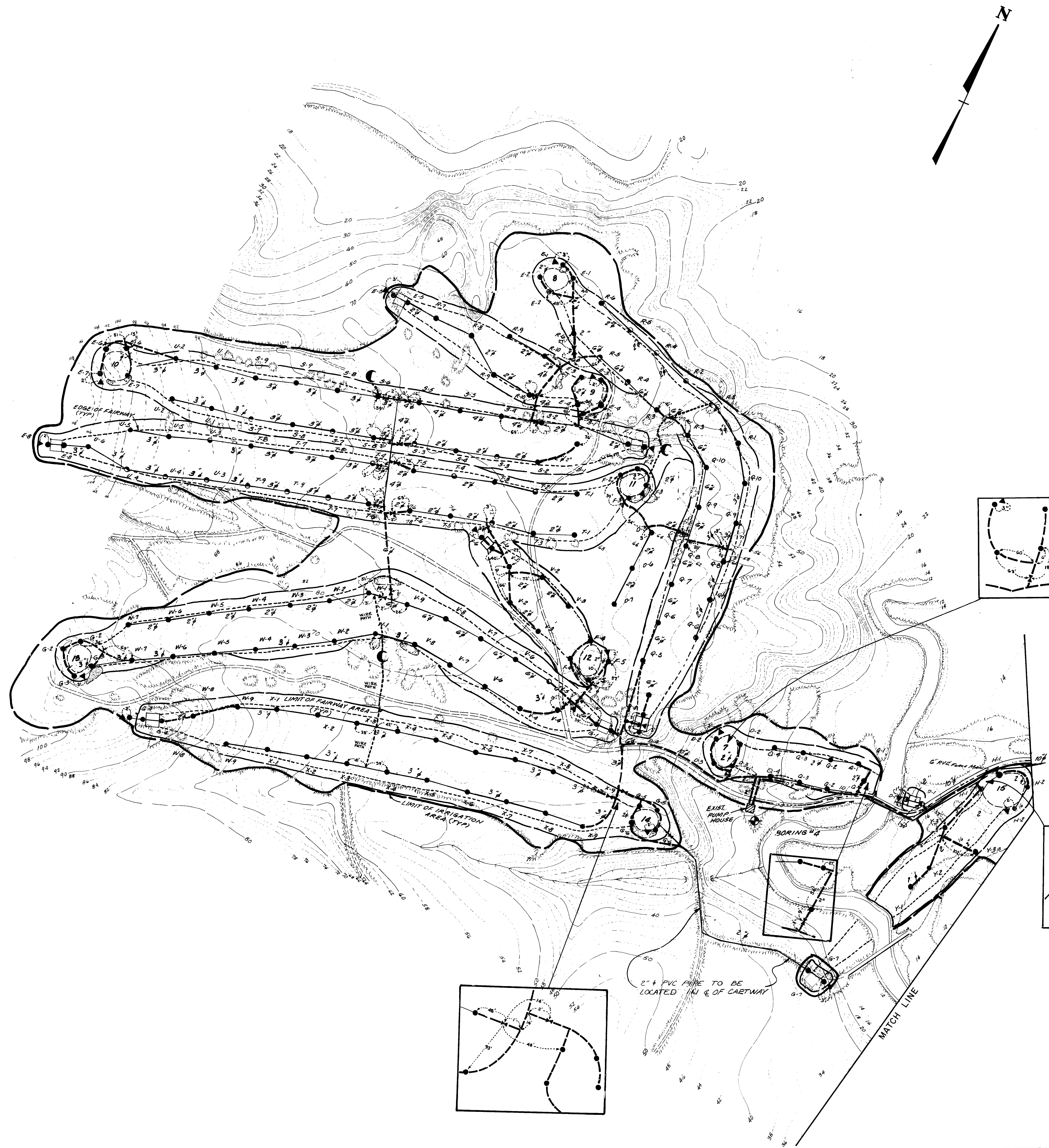
JOSEPH R. READ, P.E. & L.S.
PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 1036

IRRIGATION SYSTEM
SPRING MEADOW GOLF COURSE
PIPING PLAN

MONMOUTH COUNTY NEW JERSEY

Joseph L. ...
DATE 12/2/13

FIELD BOOK		DRAWN BY J H	SCALE 1" = 100'	PROJECT NO.	FILE DRAWING NO.
SET DATE NO.		CALC BY T H	DATE		
2 / 13		CHECKED BY	OCT 1988		



- LEGEND**
- SPRINKLER HEAD DESIGNATION
 - SPRINKLER HEAD
 - PIPE SIZE
 - 6" FORCE MAIN
 - SHUT-OFF VALVE IN VALVE BOX
 - LOCATION OF QUICK COUPLING VALVE

NOTE
SEE SHEET 2 OF 13 FOR NOTES.

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NO.	DATE	DESCRIPTION OF REVISION	BY	CHK.
1	10/1/89	REVISED SPRINKLER HEAD LOCATION DESIGNATION	JD	
2	10/1/89	REVISED SPRINKLER HEAD LOCATION DESIGNATION	JD	
3	10/1/89	REVISED SPRINKLER HEAD LOCATION DESIGNATION	JD	

FELLOWS, READ & ASSOC., INC.
CONSULTING ENGINEERS
310 MAIN STREET
TOMS RIVER, NEW JERSEY 08753

JOSEPH R. READ, P.E. & L.S.
PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 10301

Joseph R. Read
DATE 12/4/89

**IRRIGATION SYSTEM
SPRING MEADOW GOLF COURSE
PIPING PLAN**

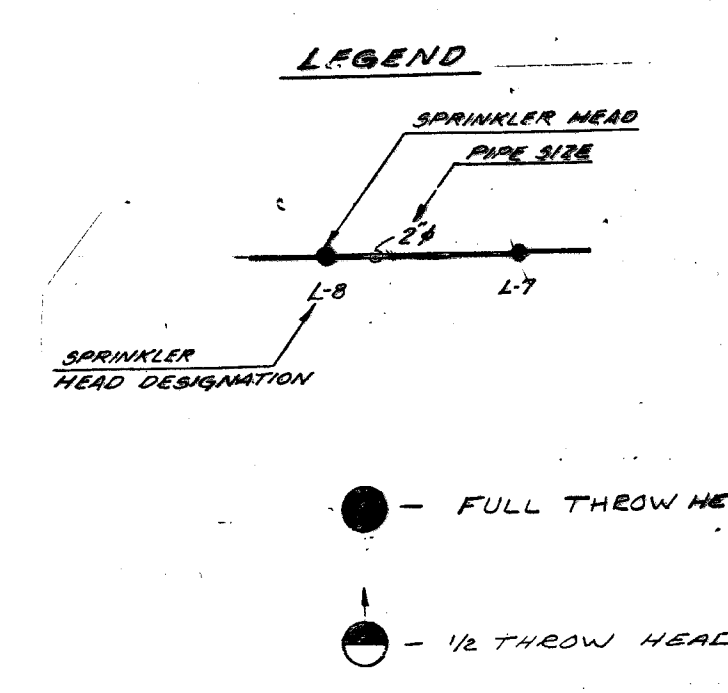
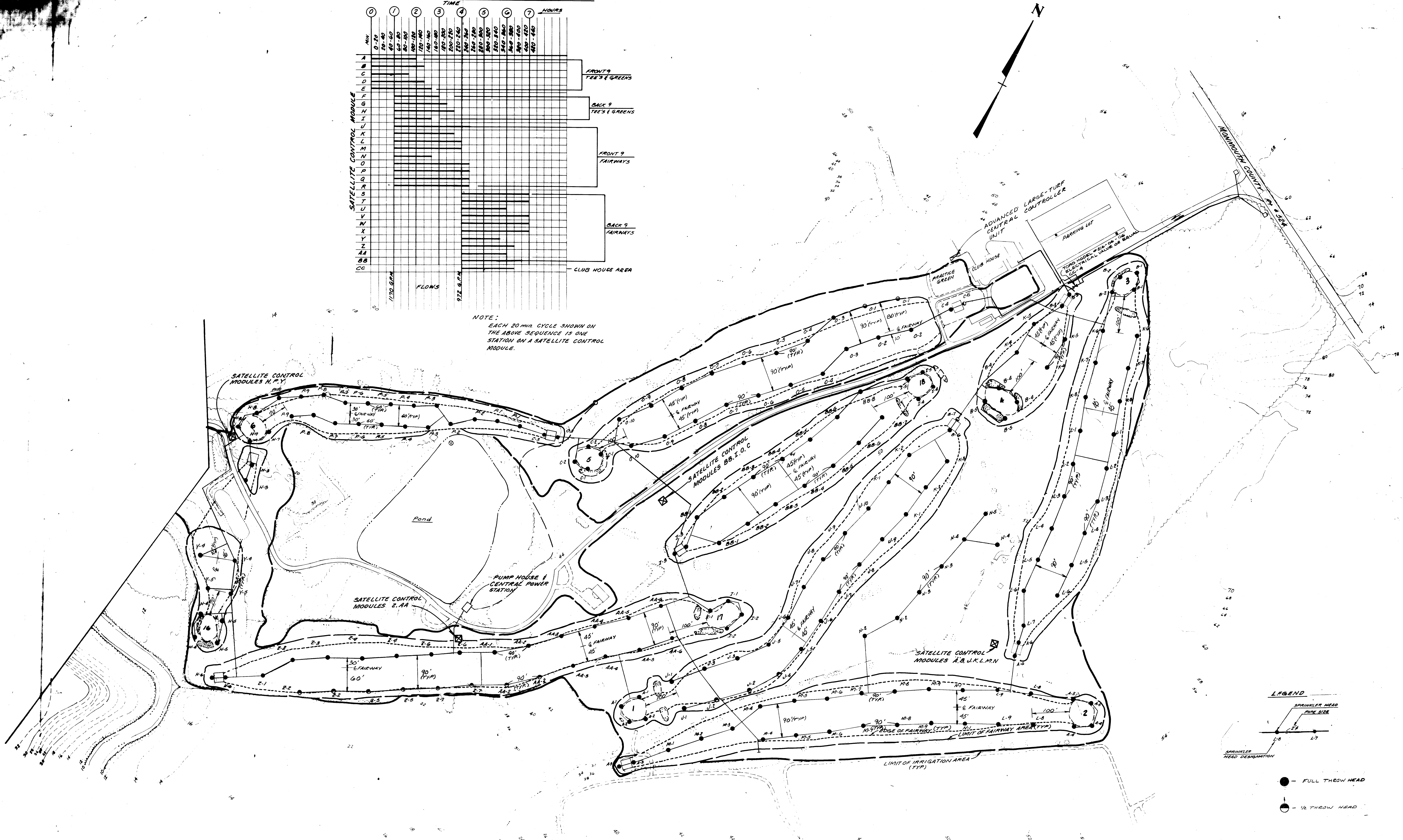
WALL TOWNSHIP
MONMOUTH COUNTY NEW JERSEY

FIELD BOOK	DRAWN BY	SCALE	PROJECT NO.	FILE NUMBER
1	J.R.	1"=100'		
REV. DATE	CHECK BY	DATE		
3	J.R.	OCT. 1989		

SATELLITE PROGRAMING SEQUENCE

SATELLITE CONTROL MODULE	TIME	HOURS
A	0-10	
B	10-20	
C	20-30	
D	30-40	
E	40-50	
F	50-60	
G	60-70	
H	70-80	
I	80-90	
J	90-100	
K	100-110	
L	110-120	
M	120-130	
N	130-140	
O	140-150	
P	150-160	
Q	160-170	
R	170-180	
S	180-190	
T	190-200	
U	200-210	
V	210-220	
W	220-230	
X	230-240	
Y	240-250	
Z	250-260	
AA	260-270	
BB	270-280	
CC	280-290	

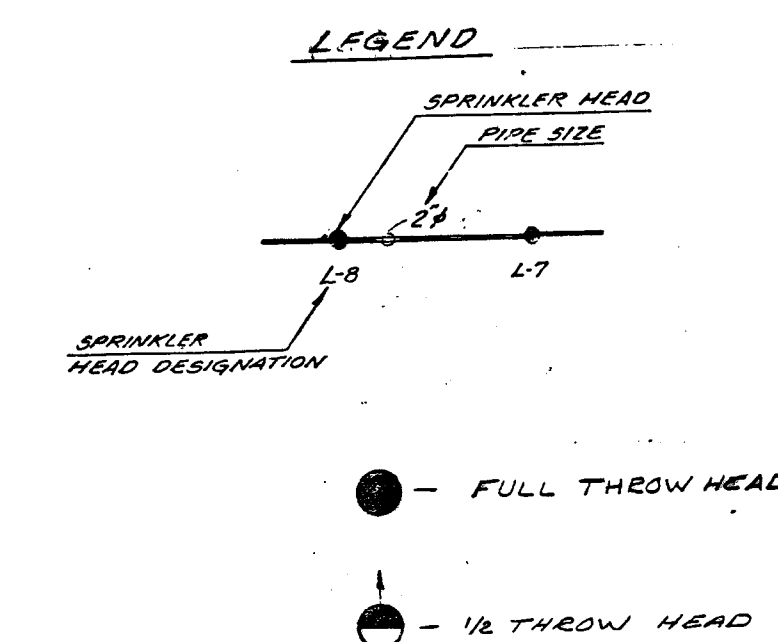
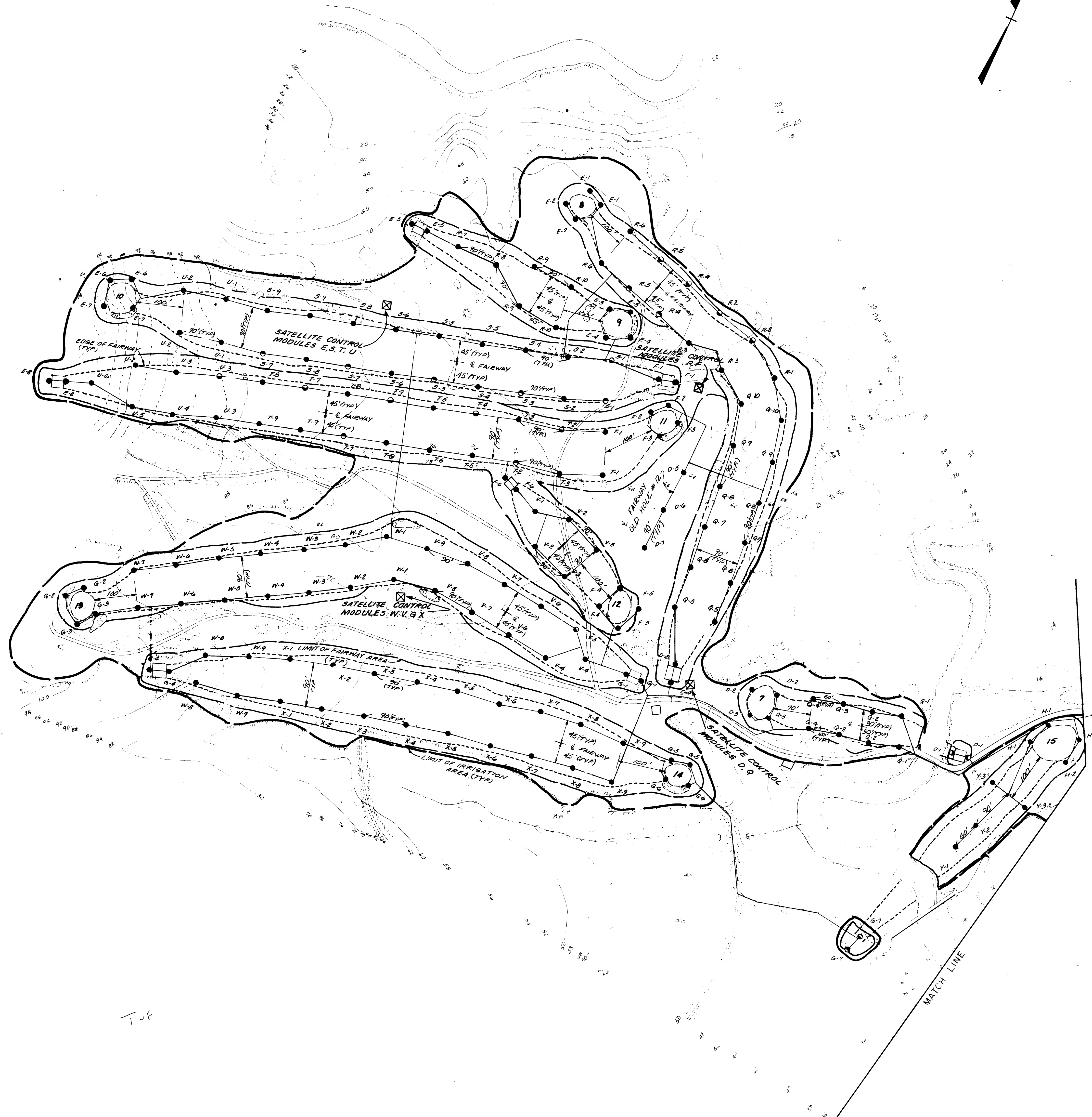
NOTE: EACH 20 MIN. CYCLE SHOWN ON THE ABOVE SEQUENCE IS ONE STATION ON A SATELLITE CONTROL MODULE.



NOTES
LOCATION OF THE ADVANCED LARGE - TURF CENTRAL CONTROL UNIT TO BE INSTALLED IN MAINTENANCE BLDG.
FAIRWAY HEADS TO BE LAID OUT STARTING AT THE INDICATED DISTANCE FROM THE GREEN

FELLOWS, READ & ASSOC., INC. CONSULTING ENGINEERS 310 MAIN STREET TOMS RIVER, NEW JERSEY 08785		IRRIGATION SYSTEM SPRING MEADOW GOLF COURSE PROGRAMING SEQUENCE PLAN WALL TOWNSHIP MONMOUTH COUNTY NEW JERSEY	
JOSEPH R. READ, PE & LS. PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 10300		FIELD BOOK DRAWN BY SCALE PROJECT NO. DATE CHECKED BY DATE	

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SATELLITE PROGRAMING SEQUENCE

SATELLITE CONTROL MODULE	TIME								HOURS
	0	1	2	3	4	5	6	7	
A									FRONT 9 TEE'S & GREENS
B									
C									
D									
E									
F									BACK 9 TEE'S & GREENS
G									
H									
I									
J									
K									FRONT 9 FAIRWAYS
L									
M									
N									
O									
P									BACK 9 FAIRWAYS
Q									
R									
S									
T									
U									CLUBHOUSE AREA
V									
W									
X									
Y									
AA									
BB									
CC									

NOTE:
EACH 20 MIN. CYCLE SHOWN ON
THE ABOVE SEQUENCE IS ONE
STATION ON A SATELLITE CONTROL
MODULE.

NOTE:
FAIRWAY HEADS TO BE
LAID OUT STARTING AT
THE INDICATED DISTANCE
FROM THE GREEN

"The 'Record' information added to this drawing has been supplied by the contractor. The Architect/Engineer does not assume the responsibility for its accuracy other than conformity with the design concept and general adequacy of the 'Record' information to the best of the Architect/Engineer's knowledge."

FELLOWS, READ & ASSOC., INC.
CONSULTING ENGINEERS
310 MAIN STREET
TOMS RIVER, NEW JERSEY 08753
JOSEPH R. READ, P.E. & L.S.
PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 10301

NO.		DATE	DESCRIPTION OF REVISION	BY	CHKD.	FILED
1	1	10/1/83	REV. SPRINKLER HEAD LOCATION, ORIENTATION AND PIPING.	J.R.	J.R.	J.R.
2	2	10/1/83	REV. SPRINKLER HEAD LOCATION, ORIENTATION AND PIPING.	J.R.	J.R.	J.R.
3	3	10/1/83	REV. SPRINKLER HEAD LOCATION, ORIENTATION AND PIPING.	J.R.	J.R.	J.R.
4	4	10/1/83	REV. SPRINKLER HEAD LOCATION, ORIENTATION AND PIPING.	J.R.	J.R.	J.R.
5	5	10/1/83	REV. SPRINKLER HEAD LOCATION, ORIENTATION AND PIPING.	J.R.	J.R.	J.R.

IRRIGATION SYSTEM
SPRING MEADOW GOLF COURSE
PROGRAMING SEQUENCE PLAN
WALL TOWNSHIP
MONMOUTH COUNTY
NEW JERSEY

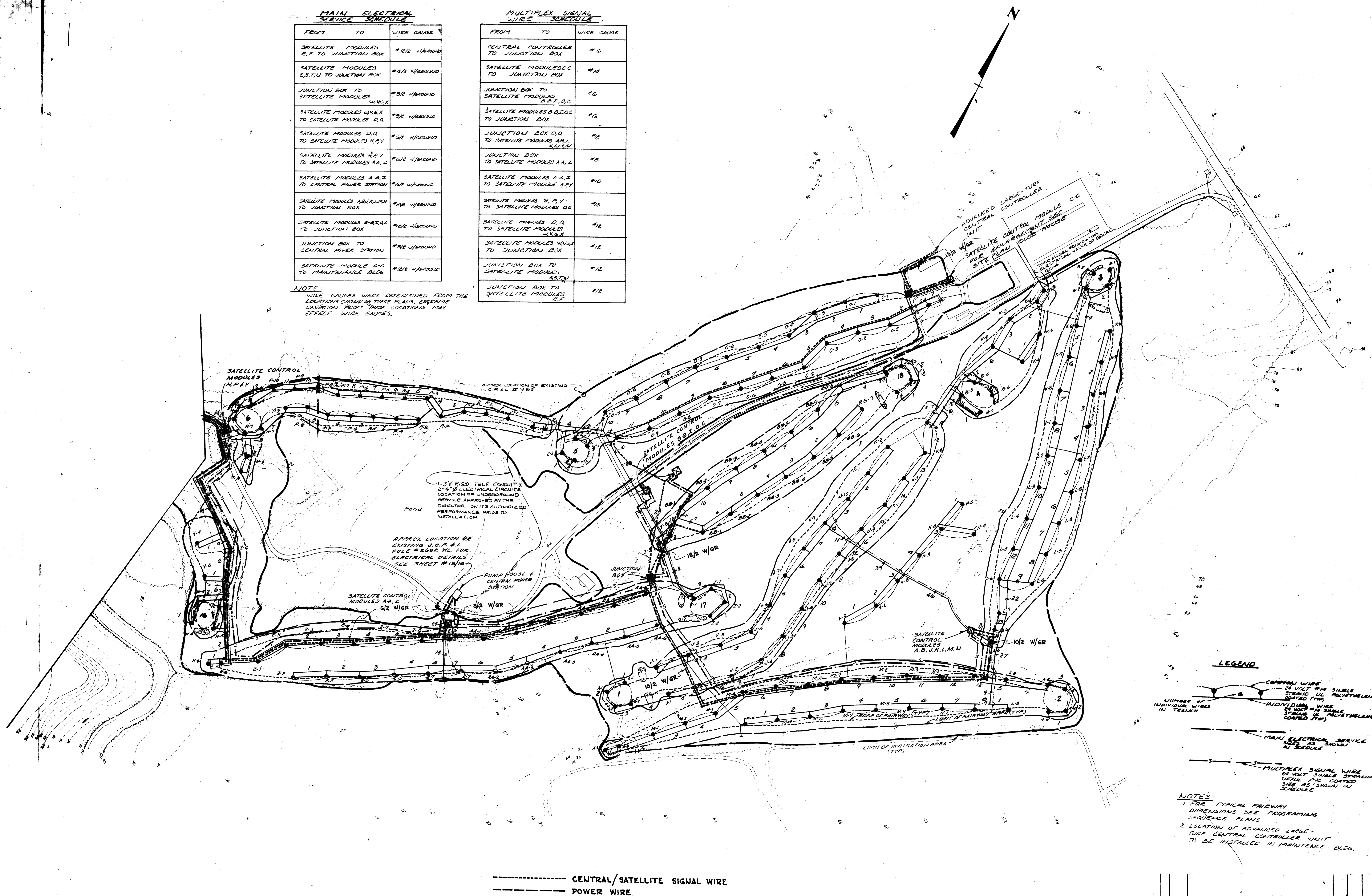
FIELD BOOK	DRAWN BY	SCALE	PROJECT NO.	FILE NUMBER
5	J.R.	1"=100'		

DATE 10/1/83

MAIN ELECTRICAL SERVICE SCHEDULE		
FROM	TO	WIRE GAUGE
SATELLITE MODULES E,F TO JUNCTION BOX		#12 W/GROUND
SATELLITE MODULES G,H,I TO JUNCTION BOX		#12 W/GROUND
JUNCTION BOX TO SATELLITE MODULES J,K,L		#12 W/GROUND
SATELLITE MODULES M,N,O TO SATELLITE MODULES P,Q		#12 W/GROUND
SATELLITE MODULES R,S TO SATELLITE MODULES T,U		#12 W/GROUND
SATELLITE MODULES V,W,X TO SATELLITE MODULES Y,Z		#12 W/GROUND
SATELLITE MODULES A-A,Z TO CENTRAL POWER STATION		#12 W/GROUND
SATELLITE MODULES A-A,Z TO JUNCTION BOX		#12 W/GROUND
SATELLITE MODULES B-B,Z TO JUNCTION BOX		#12 W/GROUND
JUNCTION BOX TO CENTRAL POWER STATION		#12 W/GROUND
SATELLITE MODULE C-C TO MAINTENANCE BLDG		#12 W/GROUND

NOTE:
WIRE GAUGES WERE DETERMINED FROM THE LOCATIONS SHOWN ON THESE PLANS. EXCESSIVE DEVIATION FROM THESE LOCATIONS MAY EFFECT WIRE GAUGES.

MULTIPLEX SIGNAL WIRE SCHEDULE		
FROM	TO	WIRE GAUGE
CENTRAL CONTROLLER TO JUNCTION BOX		#6
SATELLITE MODULES C-C TO JUNCTION BOX		#14
JUNCTION BOX TO SATELLITE MODULES B-B,Z,O,C		#6
SATELLITE MODULES B-B,Z,O,C TO JUNCTION BOX		#6
JUNCTION BOX D-Q TO SATELLITE MODULES A-A,Z		#12
JUNCTION BOX TO SATELLITE MODULES A-A,Z		#10
SATELLITE MODULES A-A,Z TO SATELLITE MODULE Y,Y		#12
SATELLITE MODULES Y,Y TO SATELLITE MODULES G,G		#12
SATELLITE MODULES D,Q TO SATELLITE MODULES W,W,X		#12
JUNCTION BOX TO SATELLITE MODULES G,G		#12
JUNCTION BOX TO SATELLITE MODULES E,F		#12



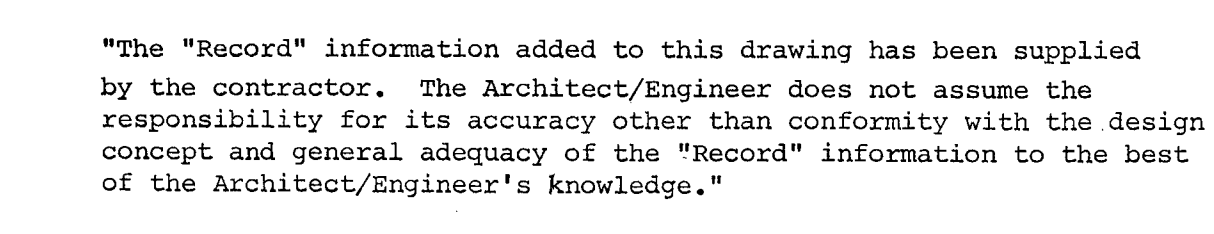
----- CENTRAL/SATELLITE SIGNAL WIRE
----- POWER WIRE

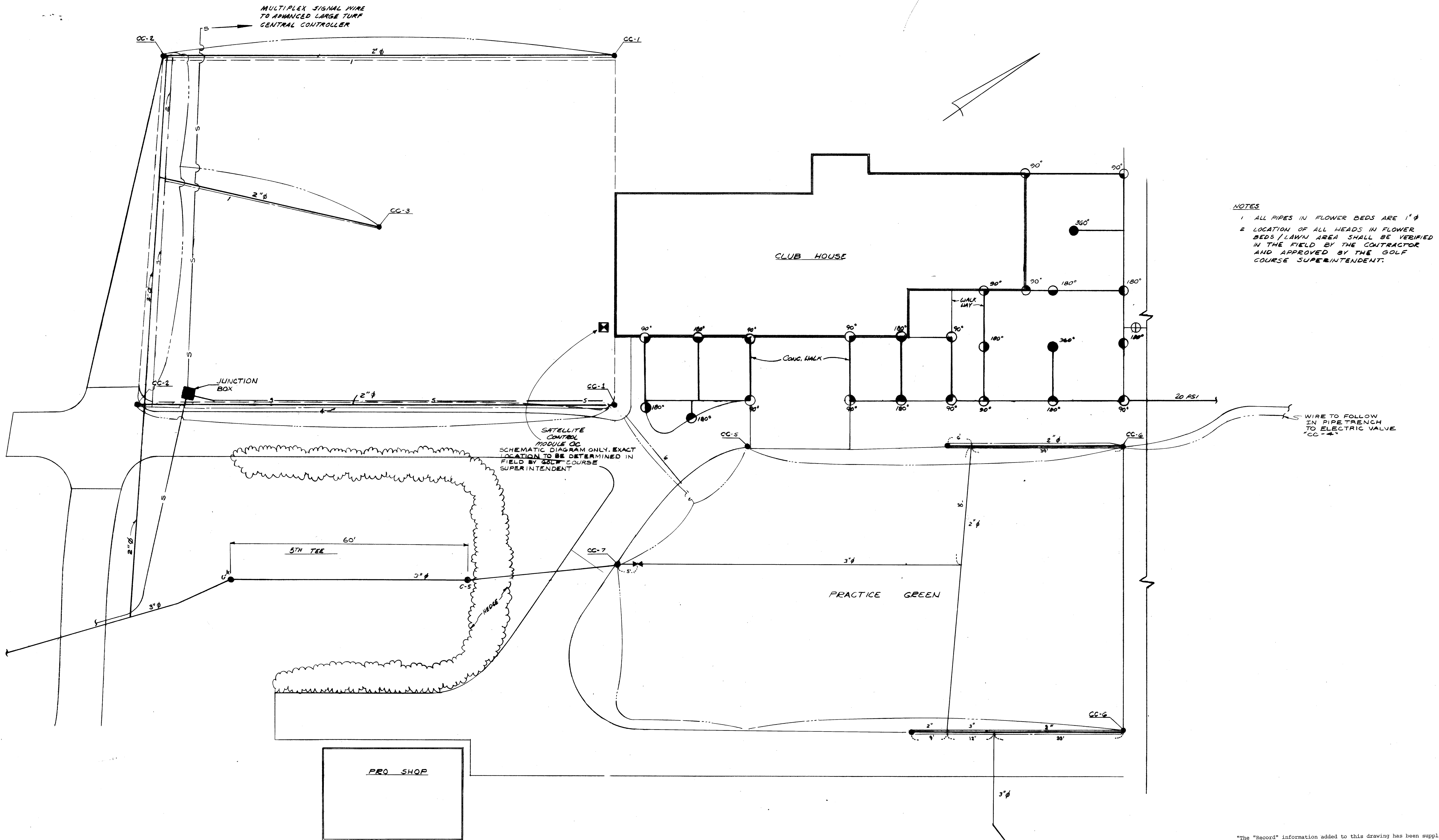
LEGEND
COMMON WIRE
24 VOLT 4/0 SINGLE STRAND UL COATED (TYP)
INDIVIDUAL WIRE
24 VOLT 4/0 SINGLE STRAND UL COATED (TYP)
MAIN ELECTRICAL SERVICE
WIRE AS SHOWN IN SCHEDULE
MULTIPLEX SIGNAL WIRE
24 VOLT SINGLE STRAND UL COATED (TYP) WIRE AS SHOWN IN SCHEDULE

NOTES:
1. FOR TYPICAL FAIRWAY DIMENSIONS SEE PROGRAMMING SEQUENCE PLANS
2. LOCATION OF ADVANCED LARGE-TUBE CENTRAL CONTROLLER UNIT TO BE INSTALLED IN MAINTENANCE BLDG.

FELLOWS, READ & ASSOC., INC. CONSULTING ENGINEERS 310 MAIN STREET TOMS RIVER, NEW JERSEY 08783		IRRIGATION SYSTEM SPRING MEADOW GOLF COURSE CONTROL WIRING PLAN WALL TOWNSHIP MONMOUTH COUNTY NEW JERSEY	
JOSEPH R. READ, PE & LS. PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 10300		DATE 12/1/82	
FIELD NO. _____ DRAWN BY _____ CHECKED BY _____ DATE _____ SCALE 1" = 100'		PROJECT NO. _____ SHEET NO. _____ TOTAL SHEETS _____ DATE 12/1/82	

"The 'Record' information added to this drawing has been supplied by the contractor. The Architect/Engineer does not assume the responsibility for its accuracy other than conformity with the design concept and general adequacy of the 'Record' information to the best of the Architect/Engineer's knowledge."





- NOTES**
1. ALL PIPES IN FLOWER BEDS ARE 1" Ø
 2. LOCATION OF ALL HEADS IN FLOWER BEDS / LAWN AREA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE GOLF COURSE SUPERINTENDENT.

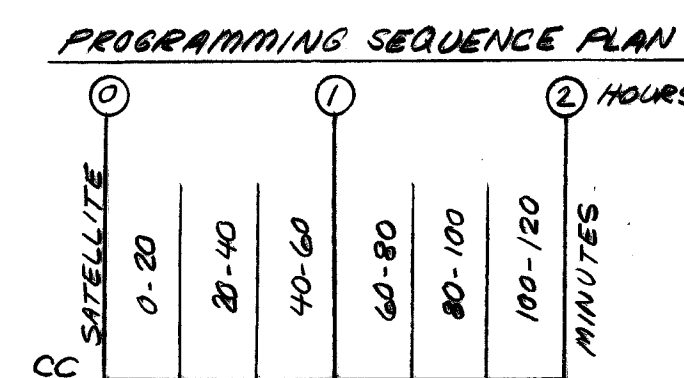
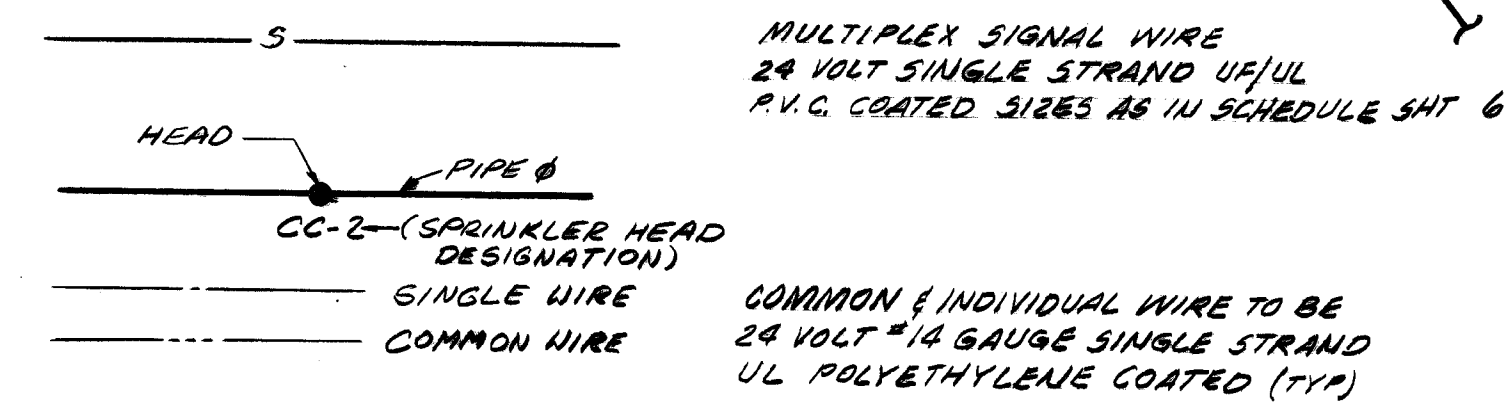
"The 'Record' information added to this drawing has been supplied by the contractor. The Architect/Engineer does not assume the responsibility for its accuracy other than conformity with the design concept and general adequacy of the 'Record' information to the best of the Architect/Engineer's knowledge."

SPRINKLER HEAD SCHEDULE (MAIN SYSTEM)

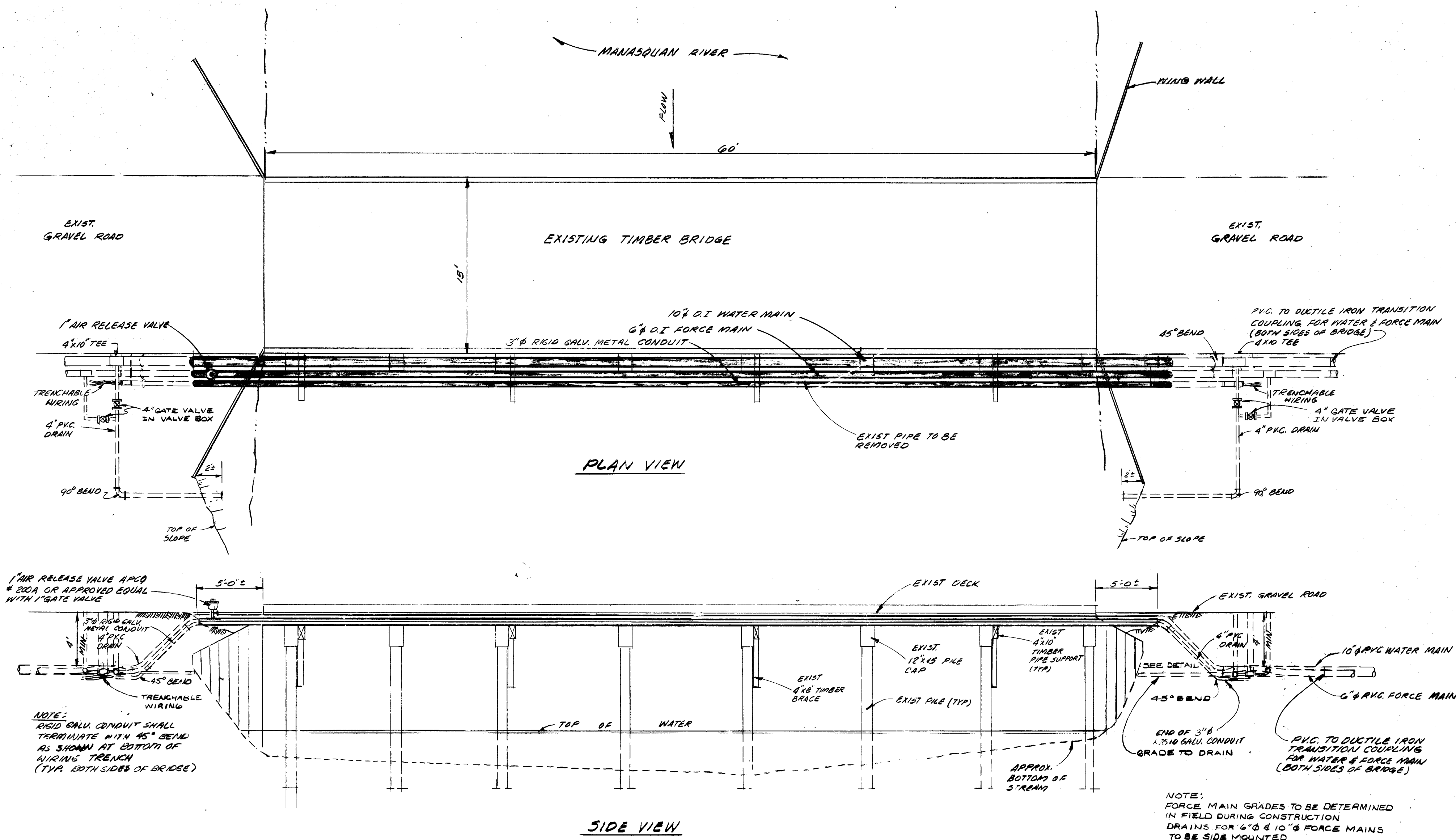
68' RADIUS GREENS 360° THROW	68' RADIUS GREENS 180° THROW	68' RADIUS GREEN 120° THROW	68' RADIUS GREENS 90° THROW
25.0 GPM/HEAD @ 80 PSI	25.0 GPM/HEAD @ 80 PSI	25.0 GPM/HEAD @ 80 PSI	25.0 GPM/HEAD @ 80 PSI
TORO MODEL NO. 664-06-56 OR APPROVED SUBSTITUTED GEAR DRIVEN TYPE SPRINKLER HEAD	TORO MODEL NO. 652-06-56 OR APPROVED SUBSTITUTED GEAR DRIVEN TYPE SPRINKLER HEAD	TORO MODEL NO. 658-06-56 OR APPROVED SUBSTITUTED GEAR DRIVEN TYPE SPRINKLER HEAD	TORO MODEL NO. 651-06-56 OR APPROVED SUBSTITUTED GEAR DRIVEN TYPE SPRINKLER HEAD
CC-3	CC-7	CC-5	CC-1, CC-2 & CC-6

**FLOWER BED
SPRINKLER HEAD SCHEDULE**

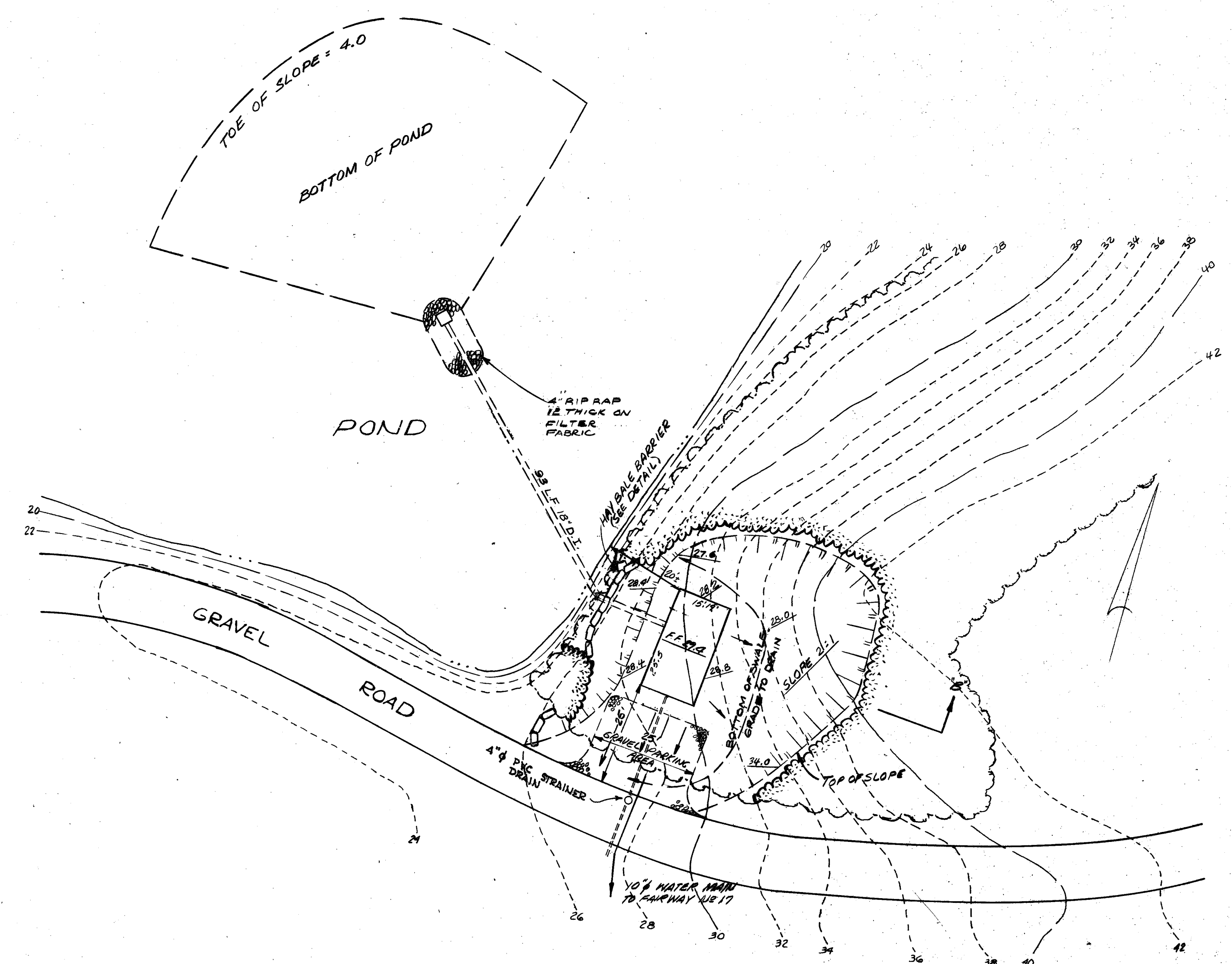
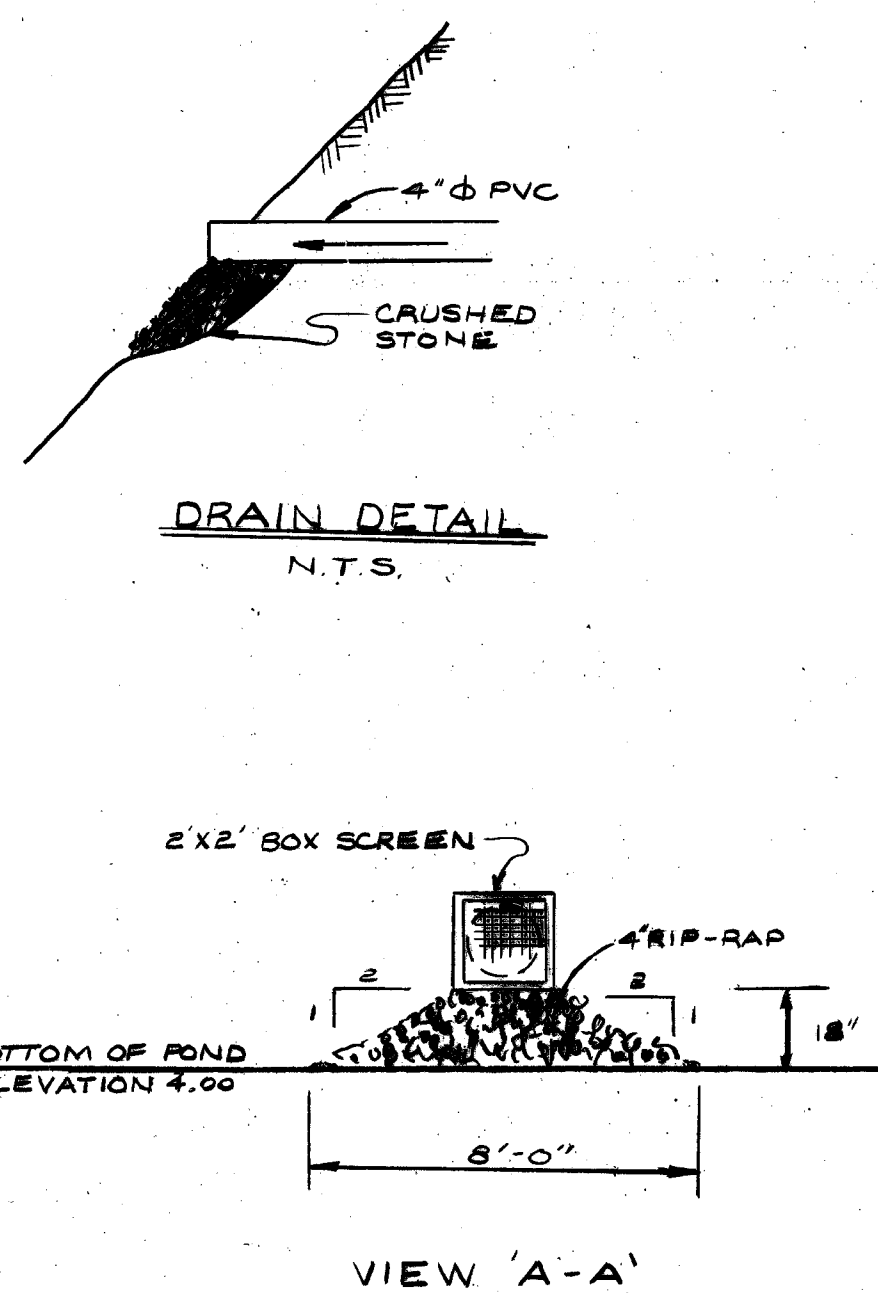
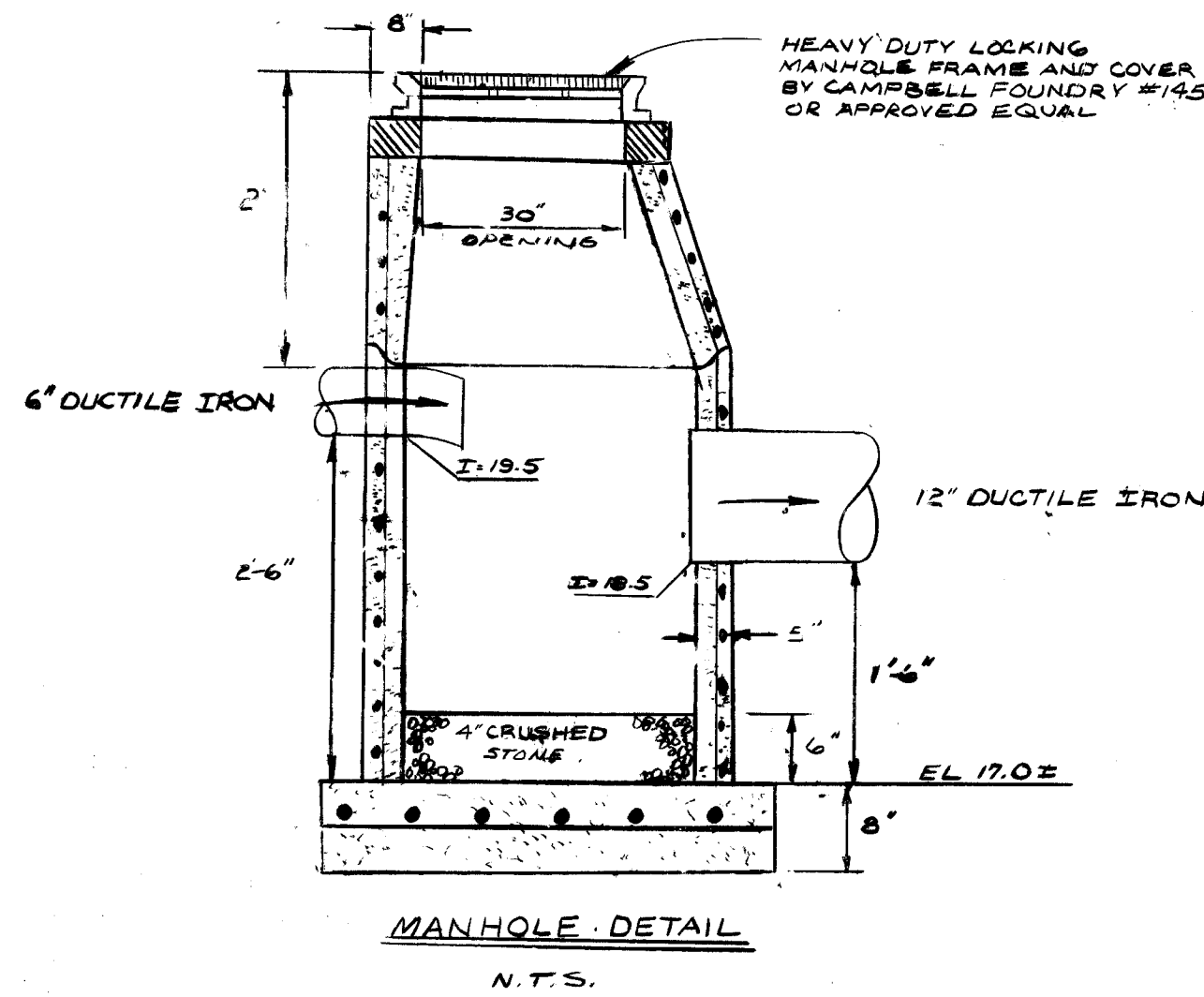
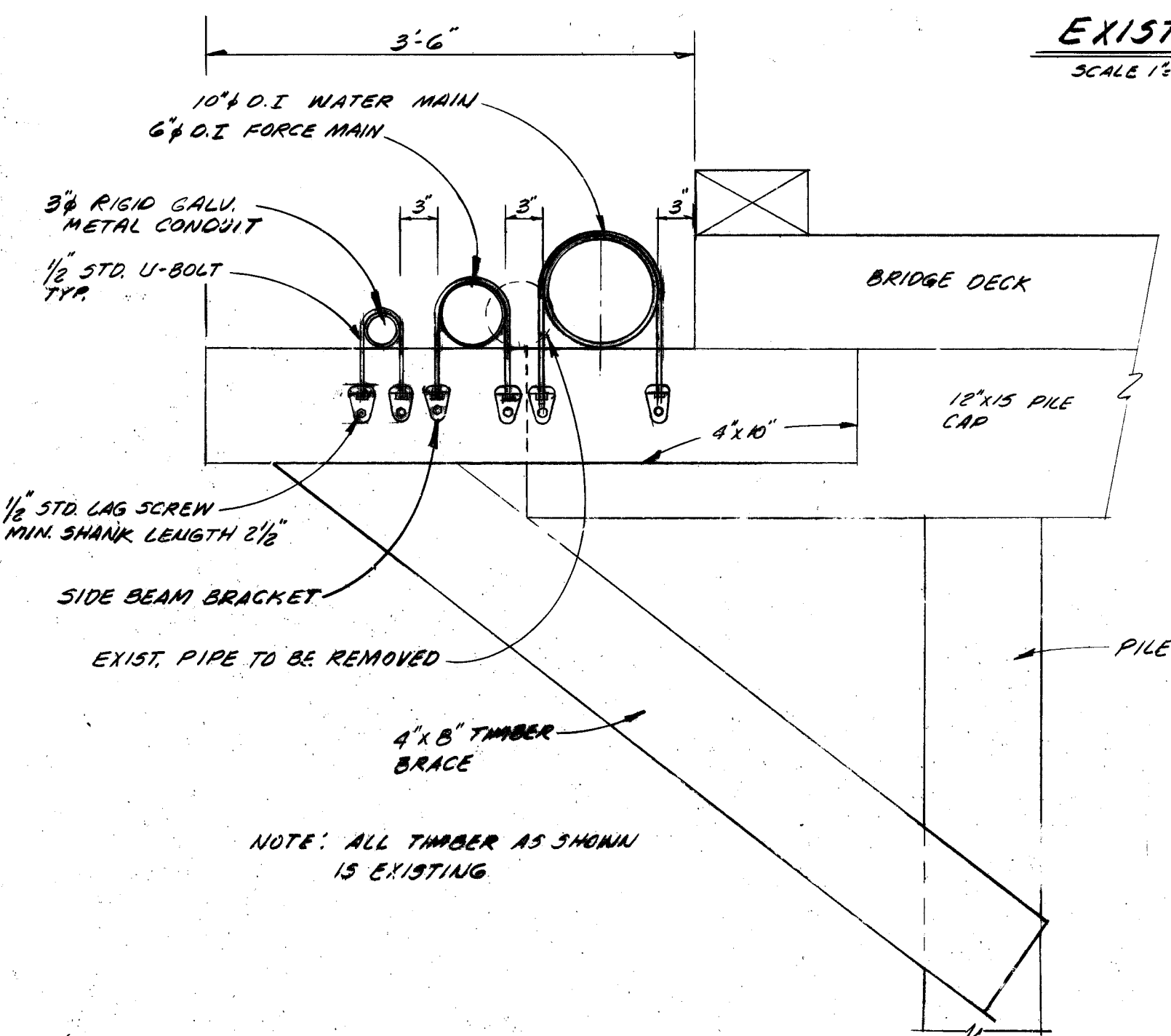
12' RADIUS 360° THROW	12' RADIUS 180° THROW	12' RADIUS 90° THROW
3.4 GPM/HEAD @ 20 PSI	1.7 GPM/HEAD @ 20 PSI	0.8 GPM/HEAD @ 20 PSI
TORO MODEL NO. 570S-12-F OR APPROVED EQUAL	TORO MODEL NO. 570S-12-180° OR APPROVED EQUAL	TORO MODEL NO. 570S-12-Q OR APPROVED EQUAL



FELLOWS, READ & ASSOC. INC. CONSULTING ENGINEERS 310 MAIN STREET TOMS RIVER, NEW JERSEY 08753 JOSEPH R. READ, PE & LS. PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 1054		IRRIGATION SYSTEM SPRING MEADOW GOLF COURSE SITE PLAN - CLUB HOUSE WALL TOWNSHIP MONMOUTH COUNTY NEW JERSEY	
DATE: 10/12/83 DRAWN BY: J.R. CHECKED BY: J.R. SCALE: 1"=40' DATE: 10/12/83	PROJECT NO. 100-100-100 DATE: 10/12/83	FILE NO. 100-100-100 DATE: 10/12/83	FILE NO. 100-100-100 DATE: 10/12/83

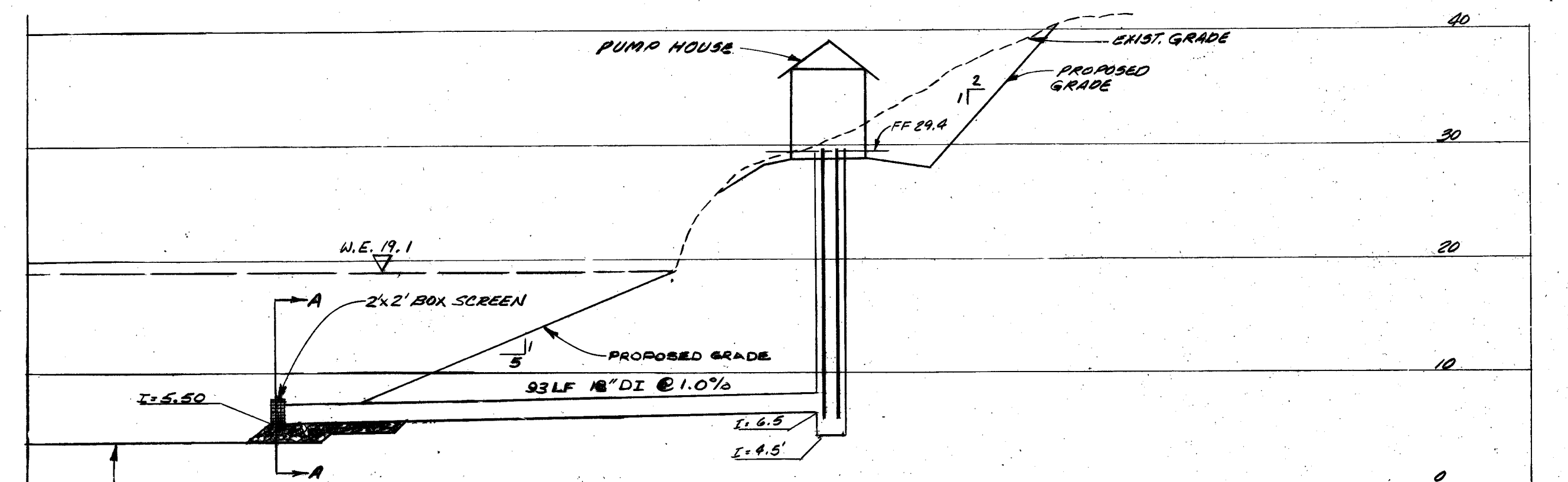


EXISTING BRIDGE DETAIL
SCALE 1/2" = 1'-0"



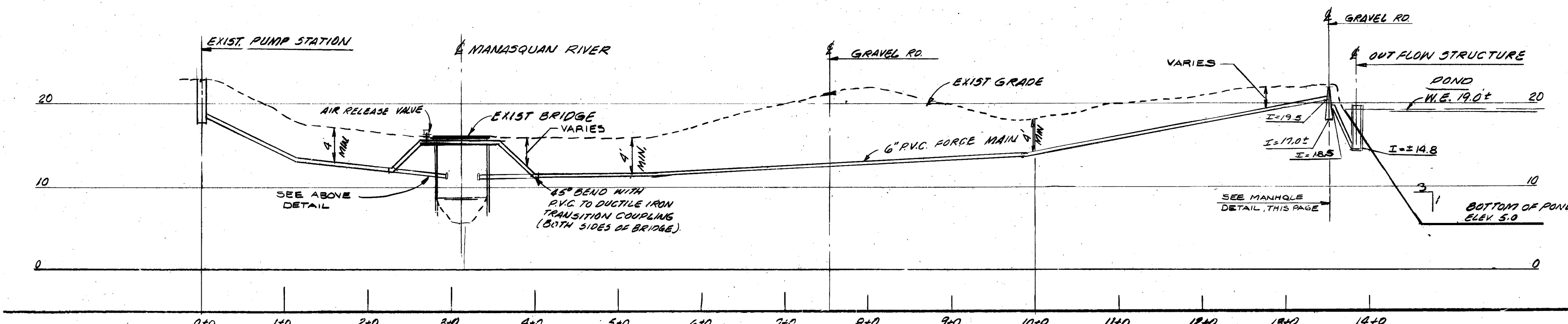
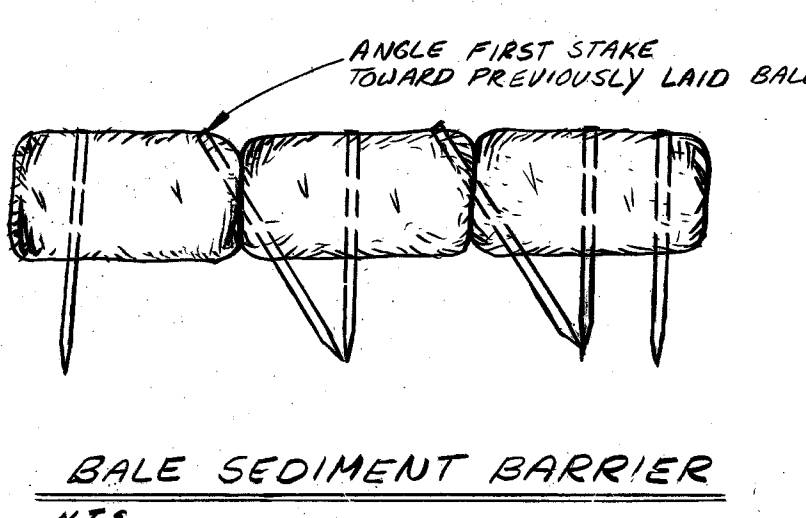
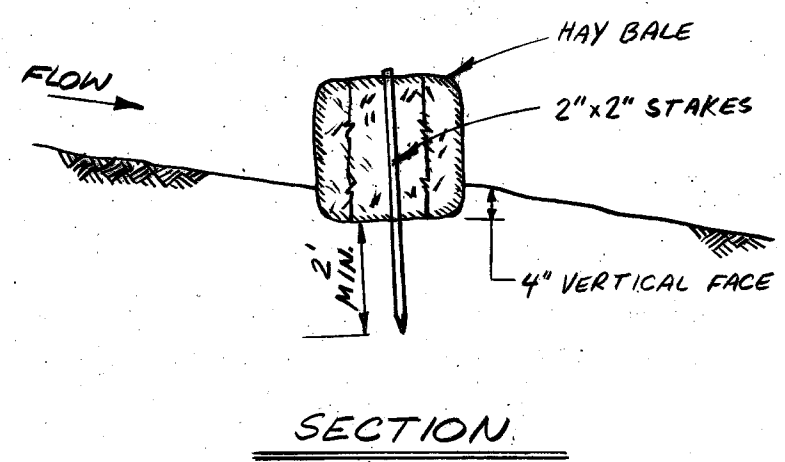
PUMP HOUSE SITE PLAN
SCALE 1/2" = 1'-0"

NOTE: FOR PUMP HOUSE DETAILS
SEE SHEETS 11 & 12

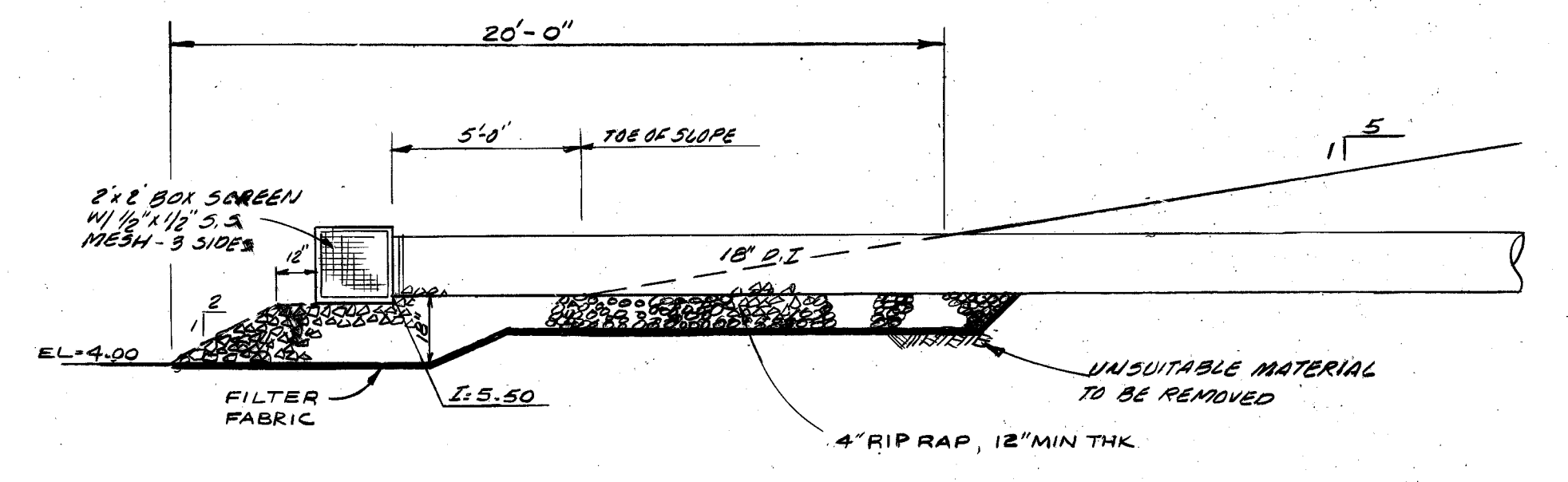


SECTION B-B
SCALE: 1" = 20' HORIZ.
1" = 10' VERT.

PIPE SUPPORT DETAIL
SCALE 1/2" = 1'-0"



PROFILE FORCE MAIN
HORIZ. 1" = 100'
VERT. 1/2" = 1'-0"

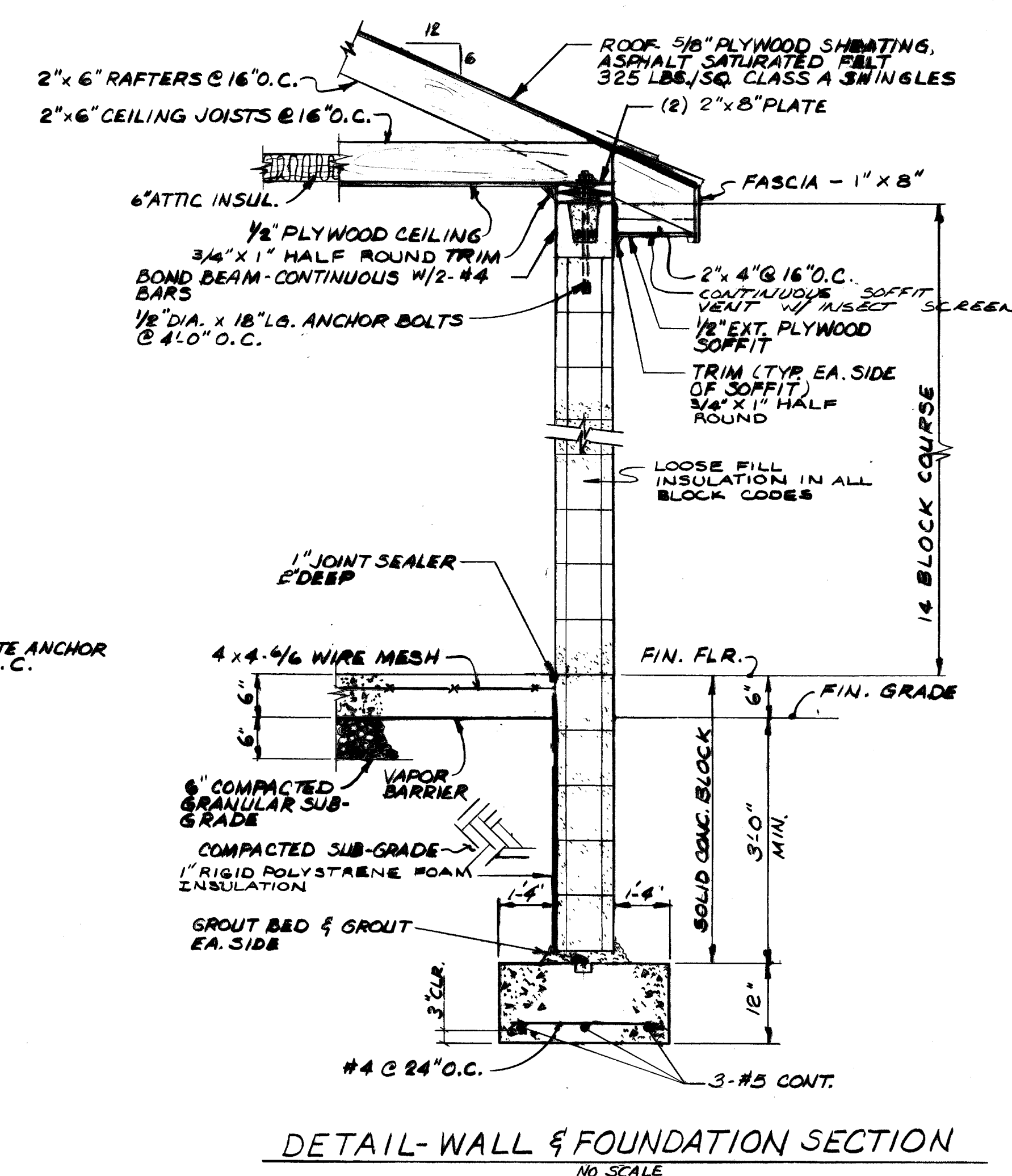
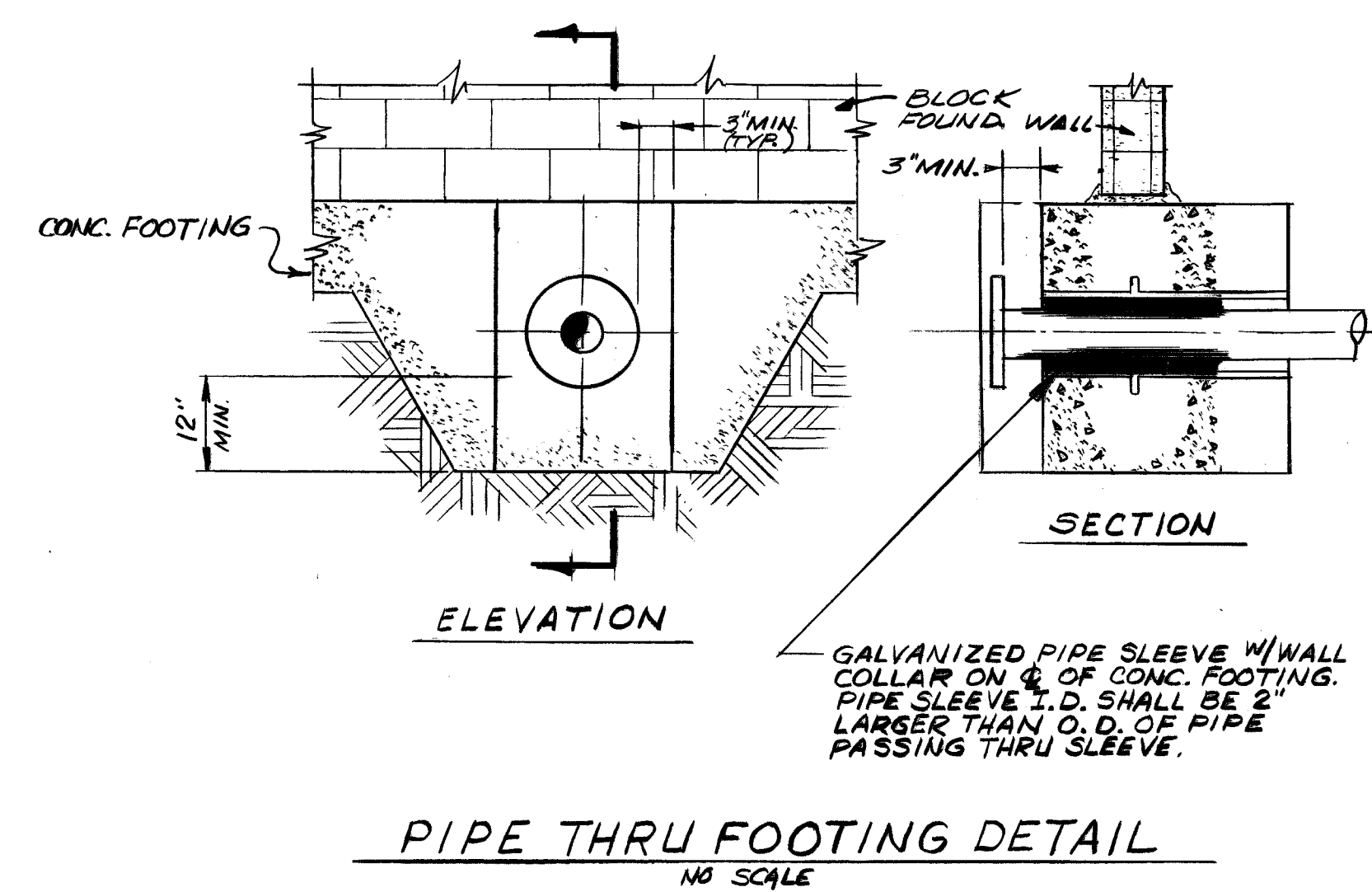
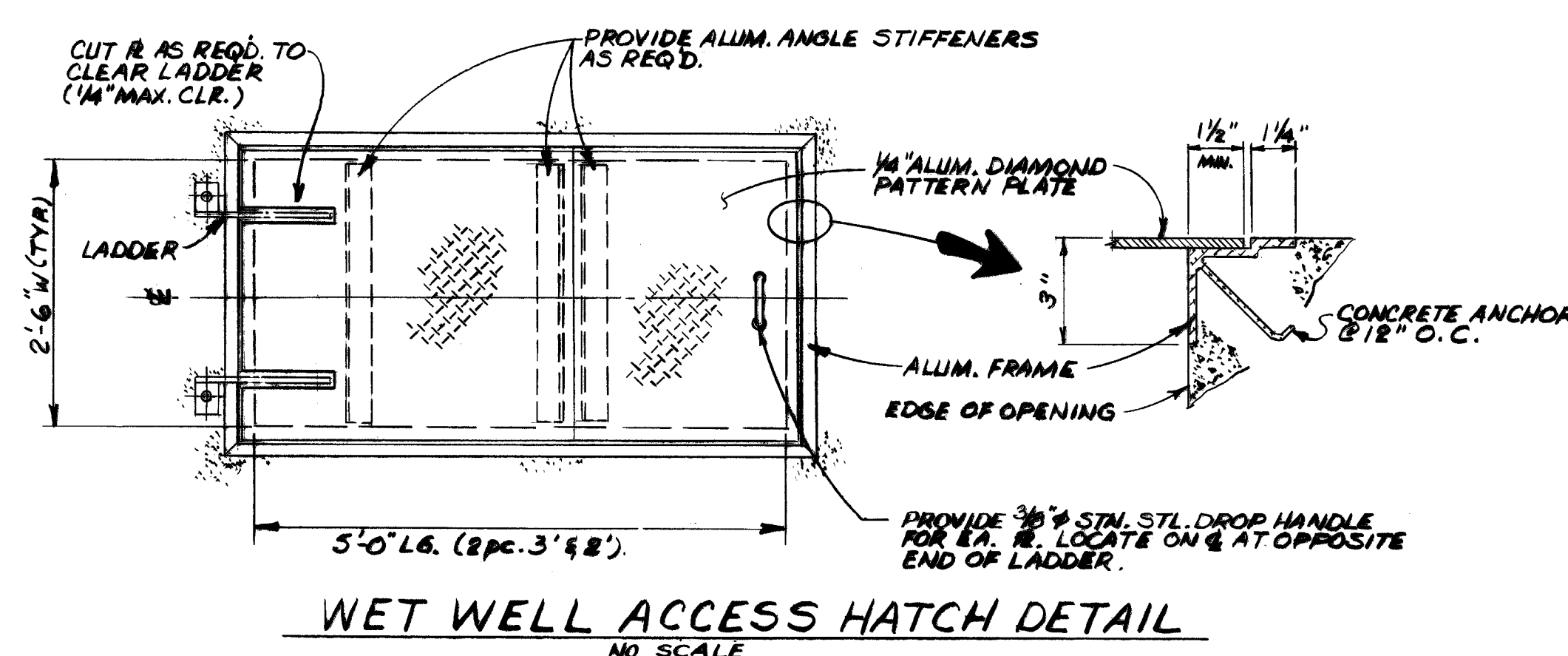
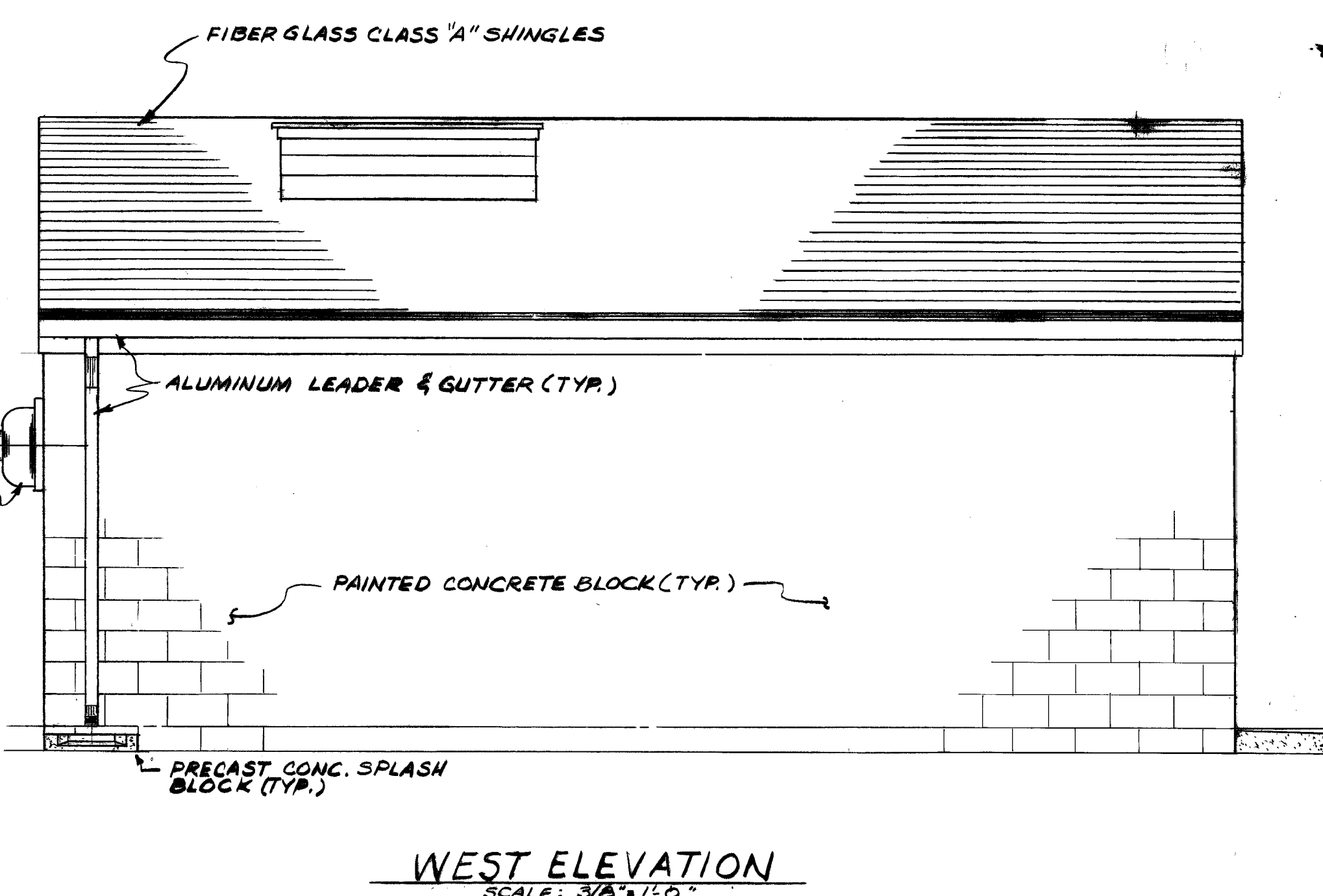
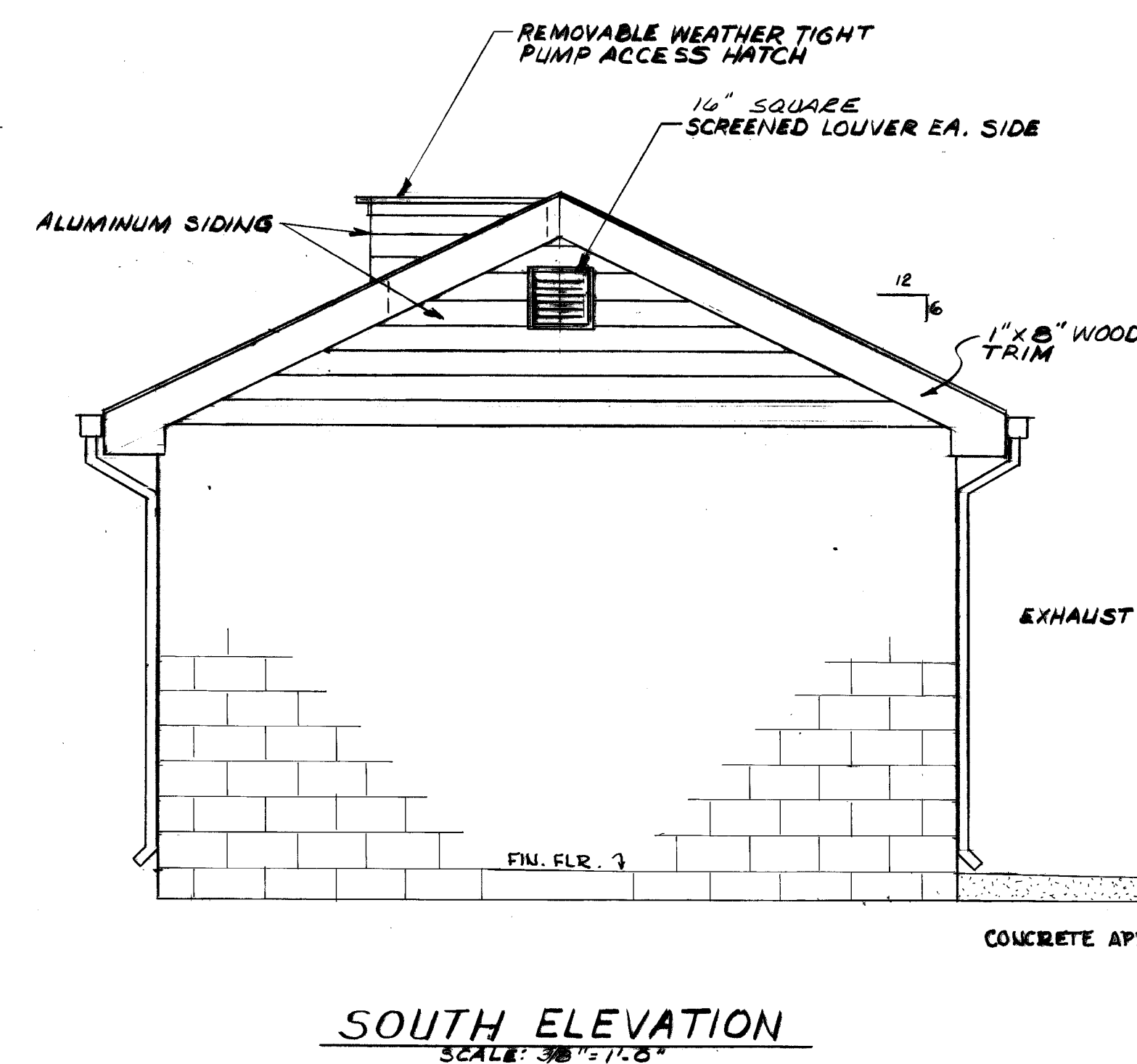
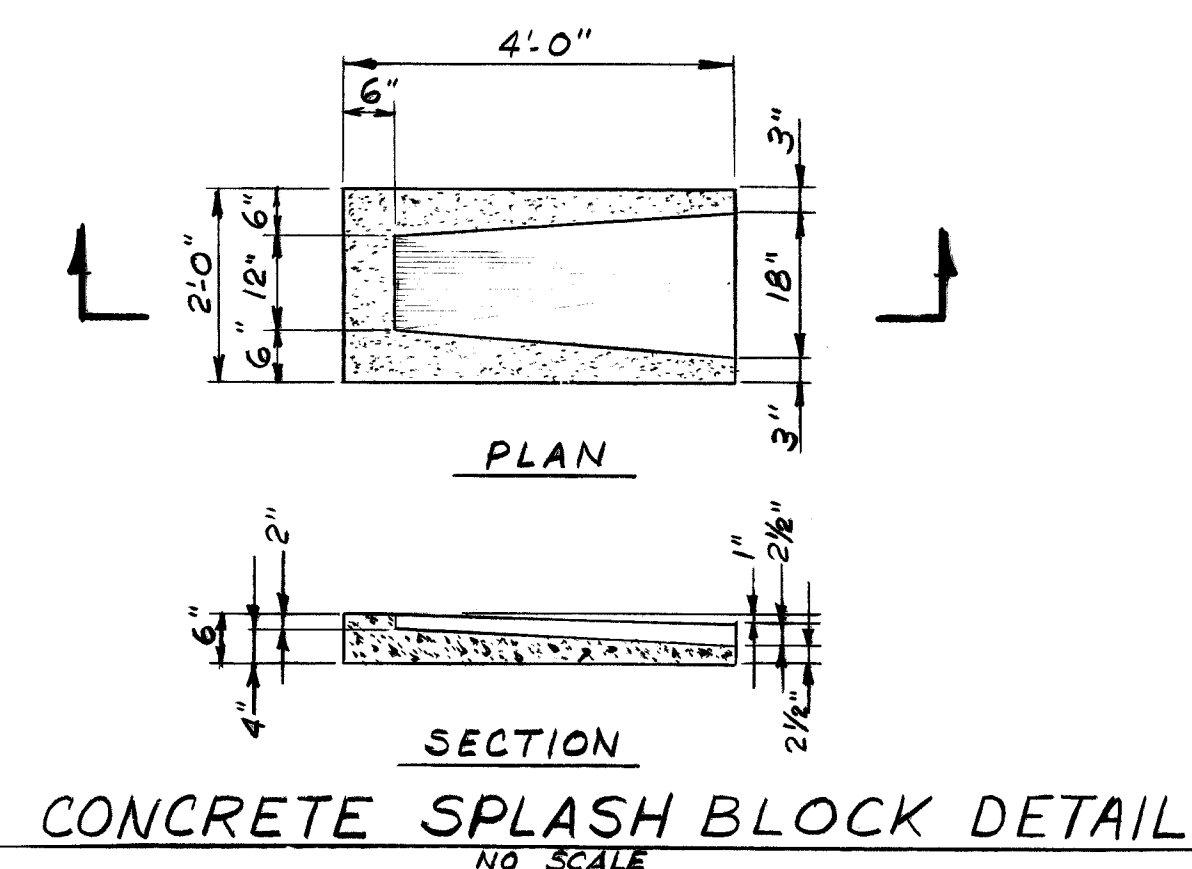
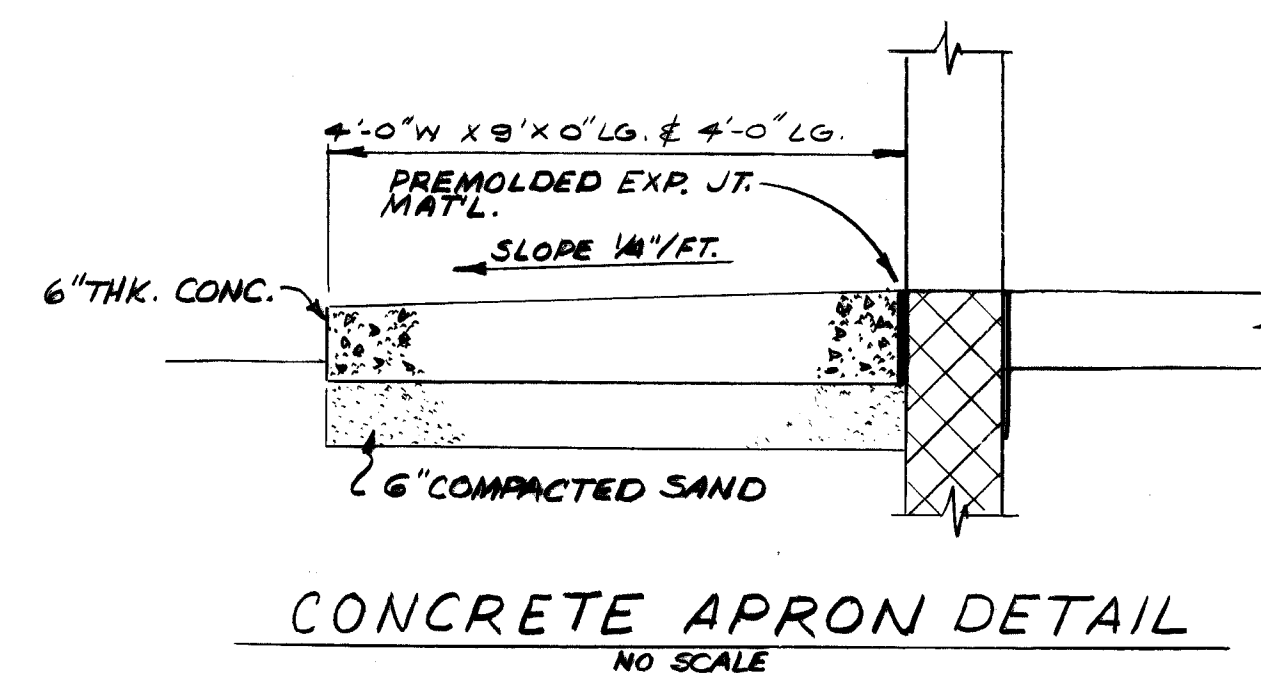
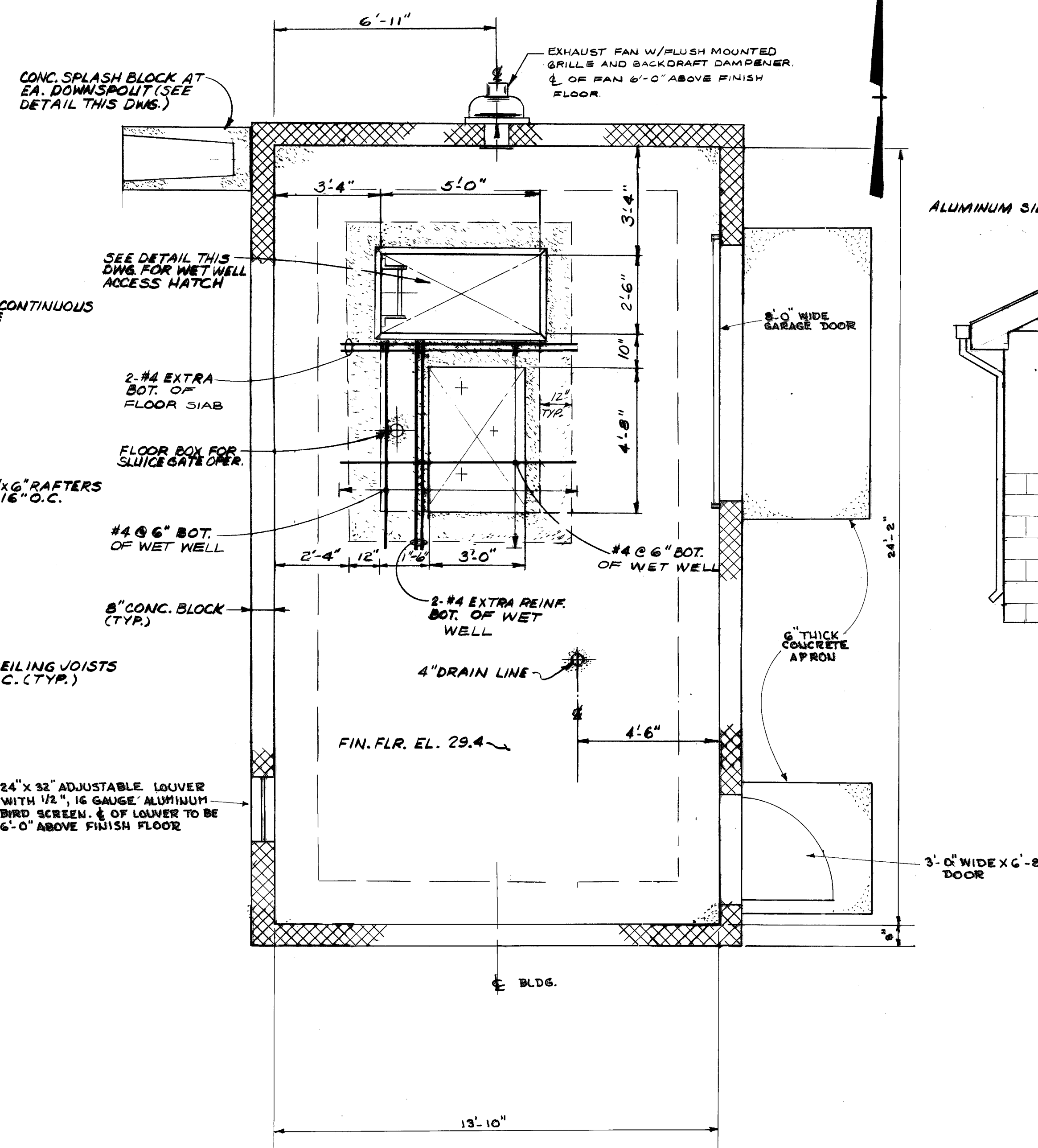
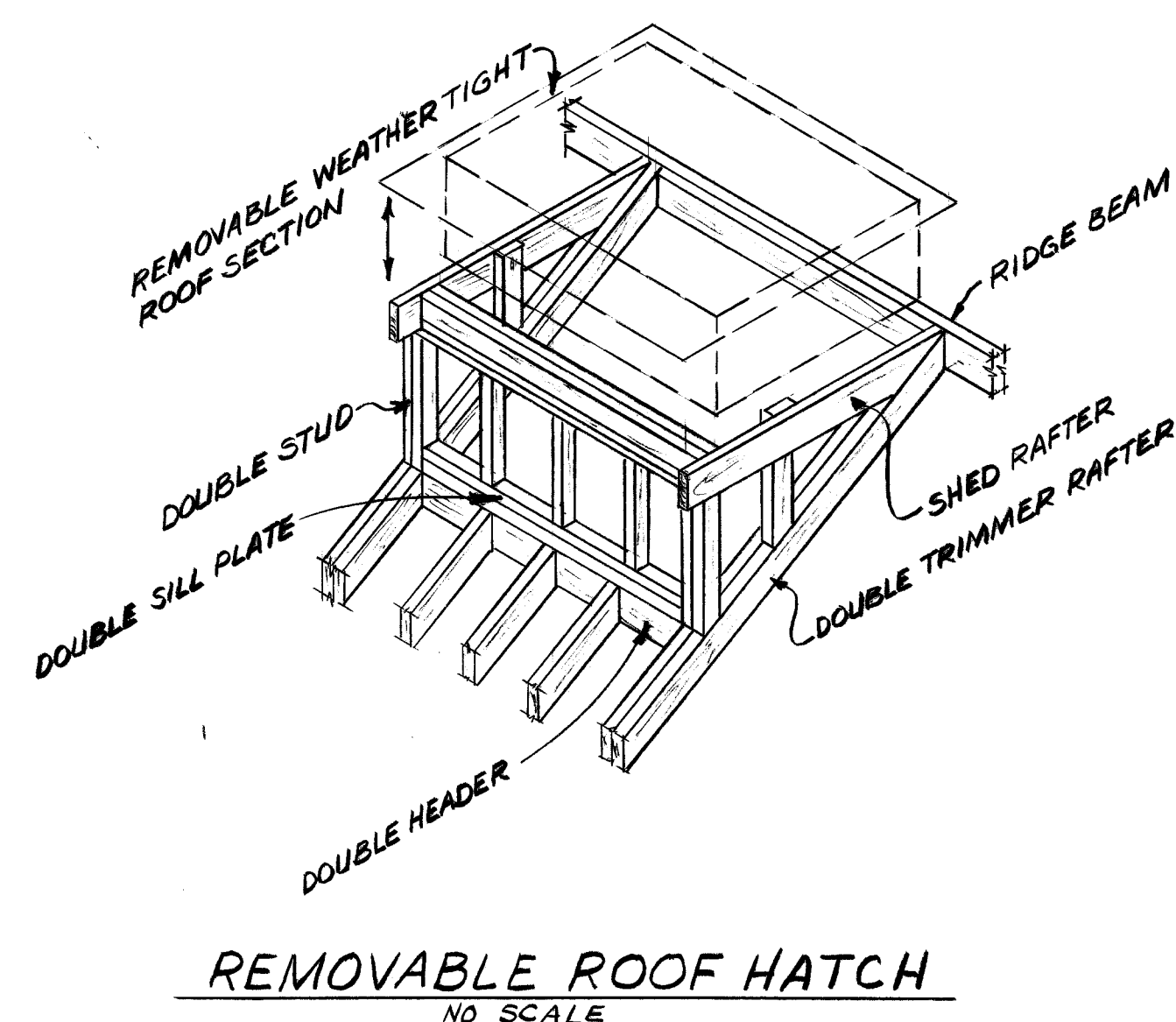
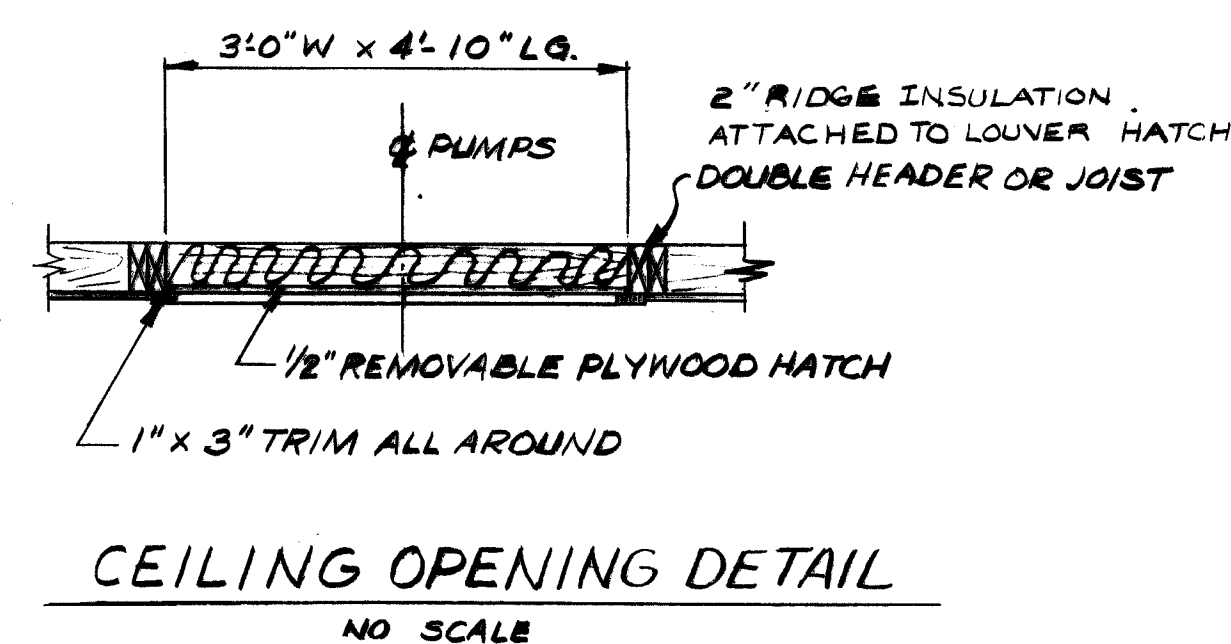
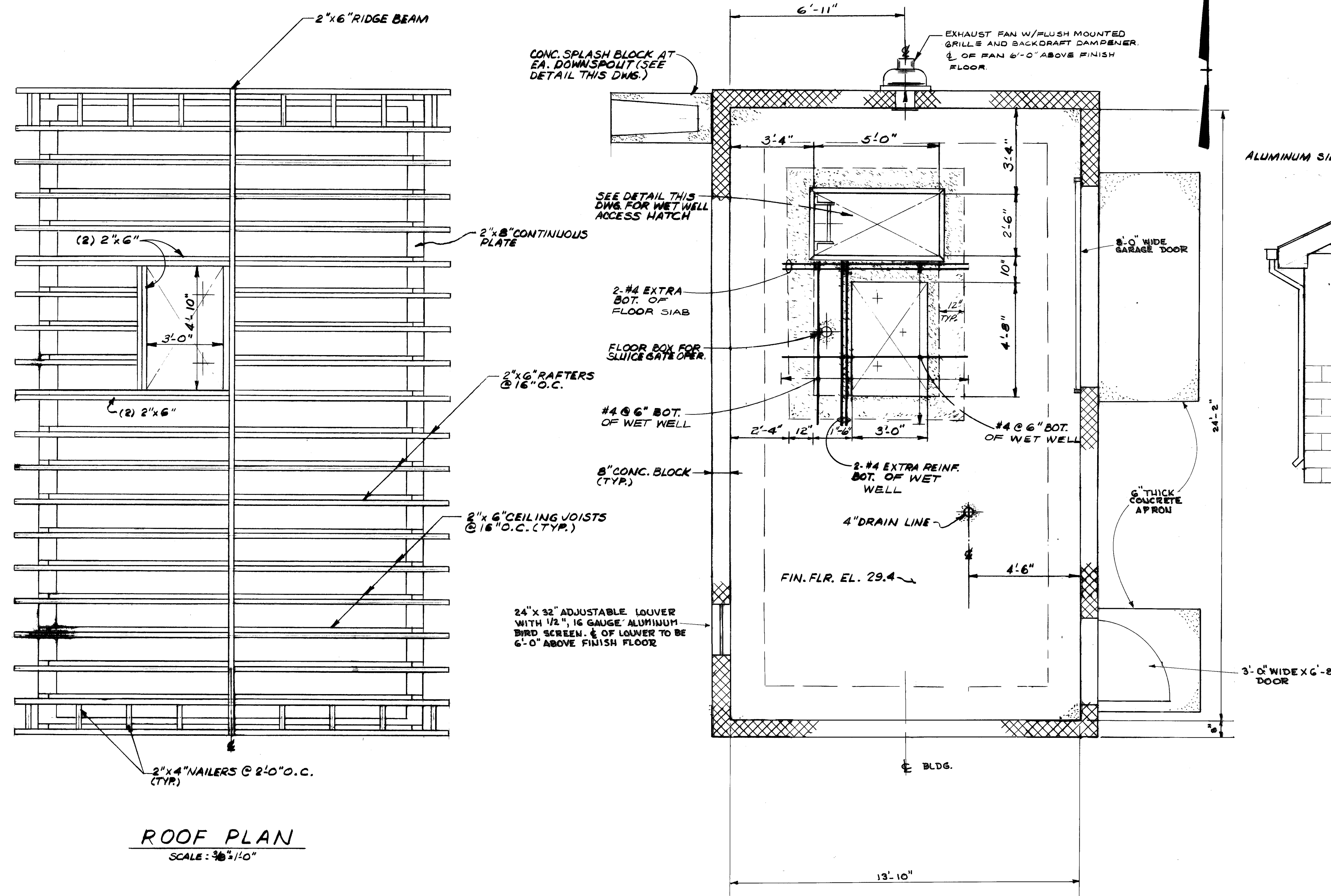


PUMP HOUSE INFLUENT PIPE DETAIL
SCALE 1/2" = 1'-0"

"The 'Record' information added to this drawing has been supplied by the contractor. The Architect/Engineer does not assume the responsibility for its accuracy other than conformity with the design concept and general adequacy of the 'Record' information to the best of the Architect/Engineer's knowledge."

FELLOWS, READ & ASSOC. INC. CONSULTING ENGINEERS 310 MAIN STREET TOMS RIVER, NEW JERSEY 08753 JOSEPH R. READ, P.E. & L.S. PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 14708		IRRIGATION SYSTEM SPRING MEADOW GOLF COURSE SITE PLAN - PUMP HOUSE AND MISCELLANEOUS DETAILS WALL TOWNSHIP MONMOUTH COUNTY NEW JERSEY	
FIELD BOOK 11/1/73 13	DRAWN BY J.R. READ 11/1/73	SCALE AS SHOWN DATE DEC 1973	PROJECT NO. FILE DRAWING NO.

NO.	DATE	DESCRIPTION OF REVISION	BY	CHKD.
2	11/1/73	REVISED PUMP HOUSE SITE PLAN, DETAIL & SECTIONS	J.R. READ	
1	10/1/73	REVISED AS PER D.C. REQUEST	J.R. READ	



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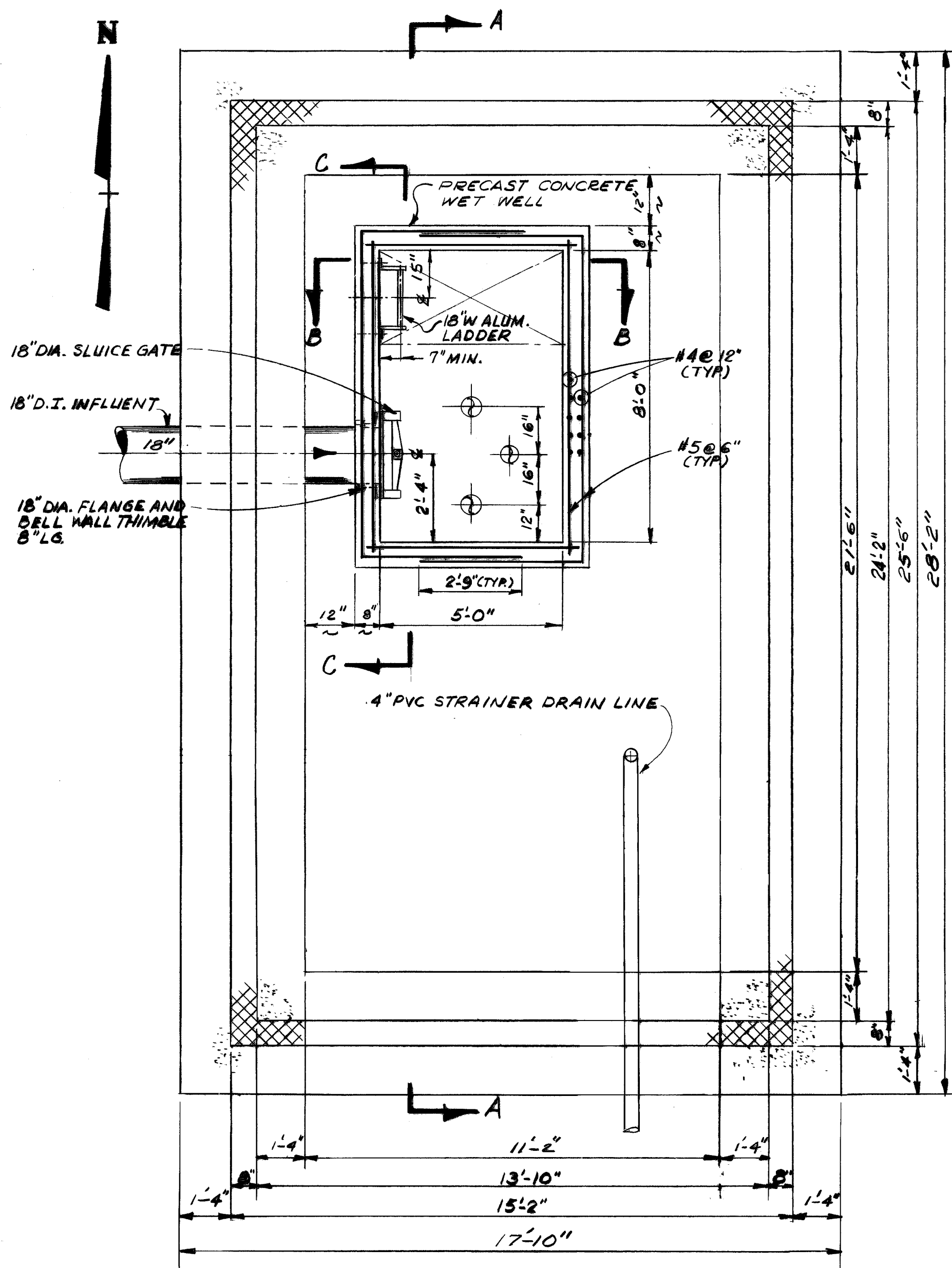
2	0-0-0	REV PER DBC COMMENTS	AG3
1	3/16/80	REV PER DBC COMMENTS ON 2/28/80 2 3/15/80	ALF6
NO.	DATE	DESCRIPTION OF REVISION	BY 

FELLOWS, READ & ASSOC. INC.
CONSULTING ENGINEERS
310 MAIN STREET
TOMS RIVER, NEW JERSEY 08753

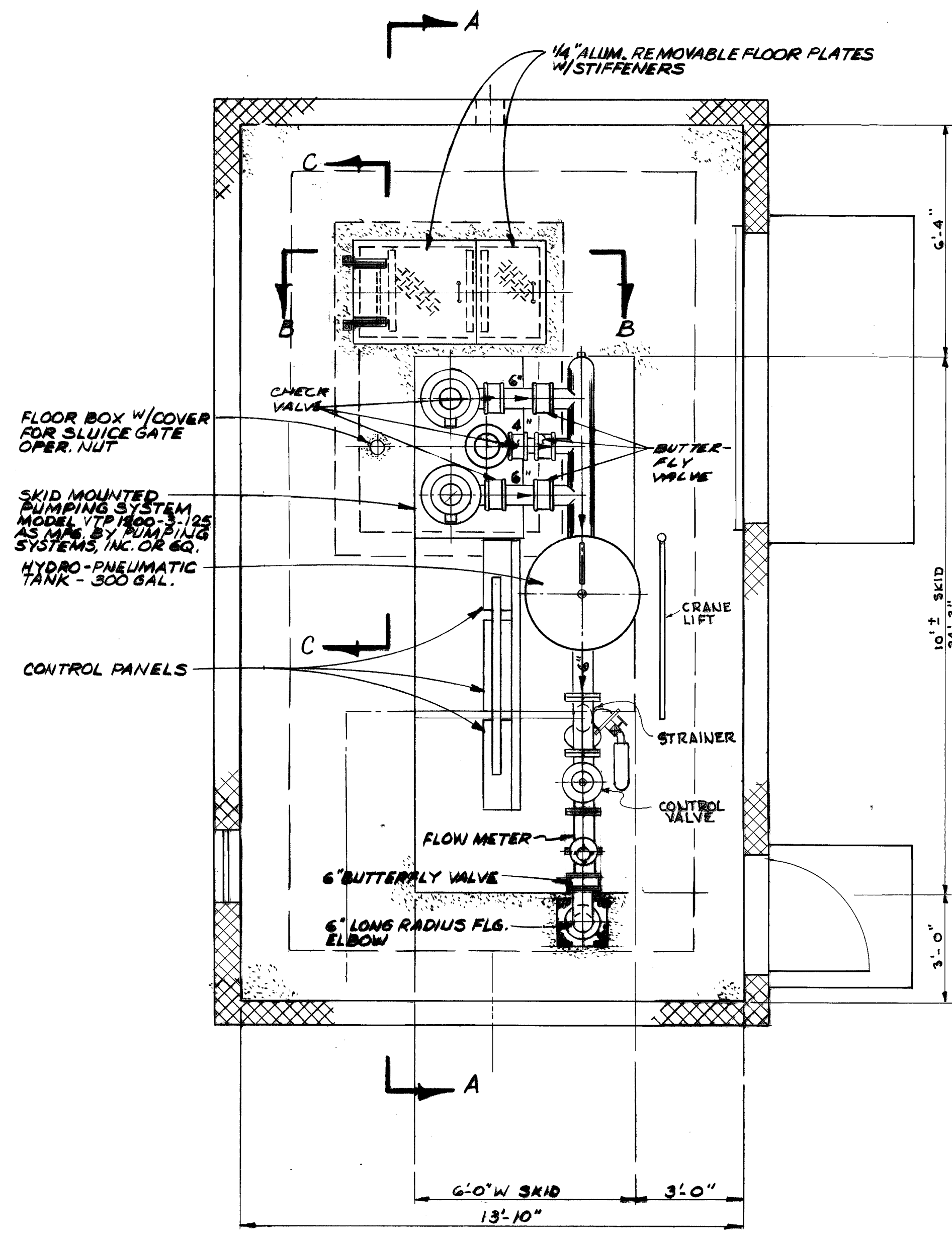
JOSEPH R. READ, P.E. & L.S.
PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 103

IRRIGATION SYSTEM
SPRING MEADOW GOLF COURSE
PUMP HOUSE
ARCHITECTURAL & STRUCTURAL
PLANS, SECTIONS & DETAILS
WALL TOWNSHIP

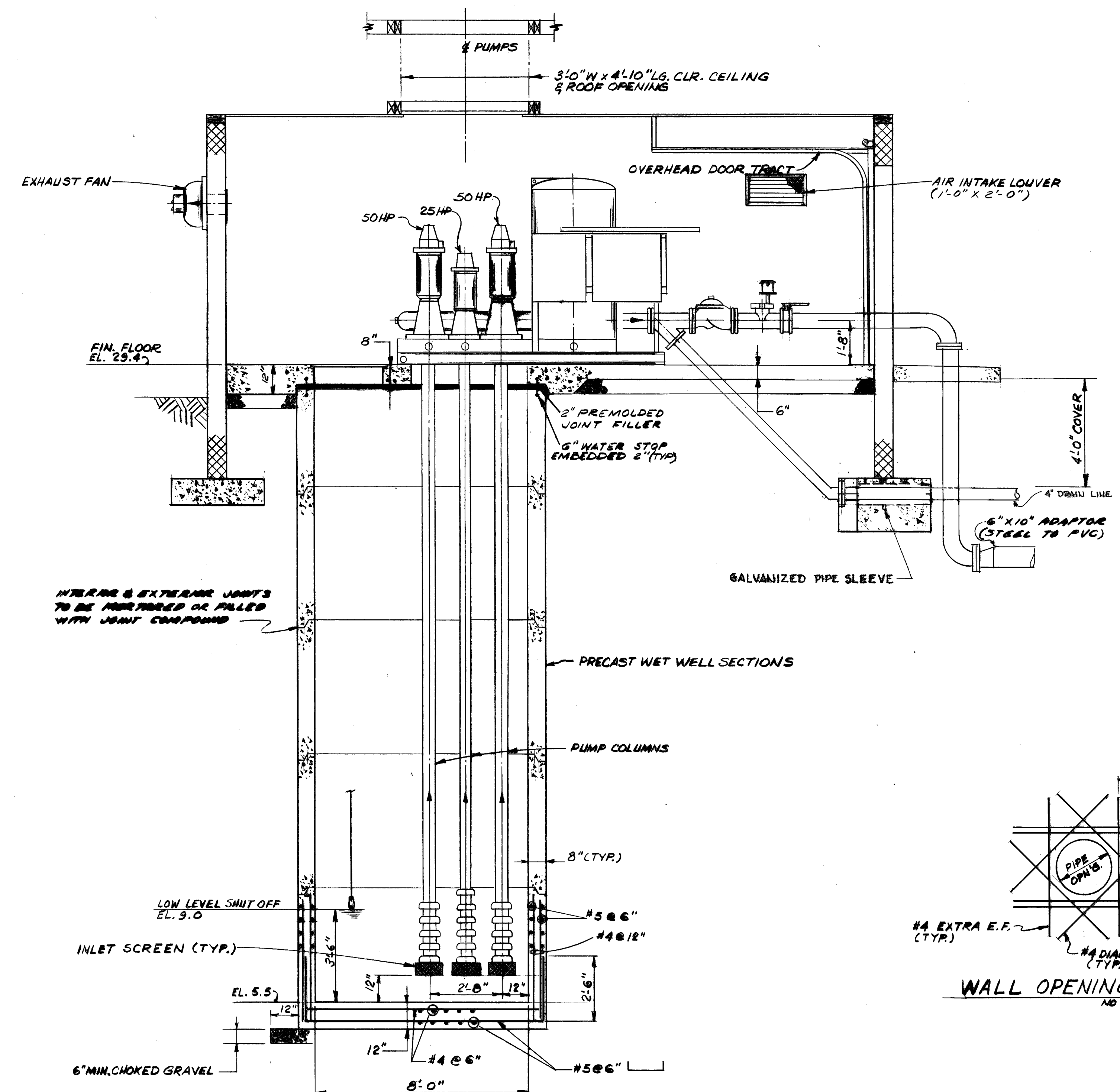
MONMOUTH COUNTY		NEW JERSEY	
FIELD BOOK	DRAWN BY <i>[Signature]</i>	SCALE	PROJECT NO.
		AS NOTED	
SET OUT NO.	CALC. BY	DATE	
10 19	ENGINEER BY	DEC 1989	



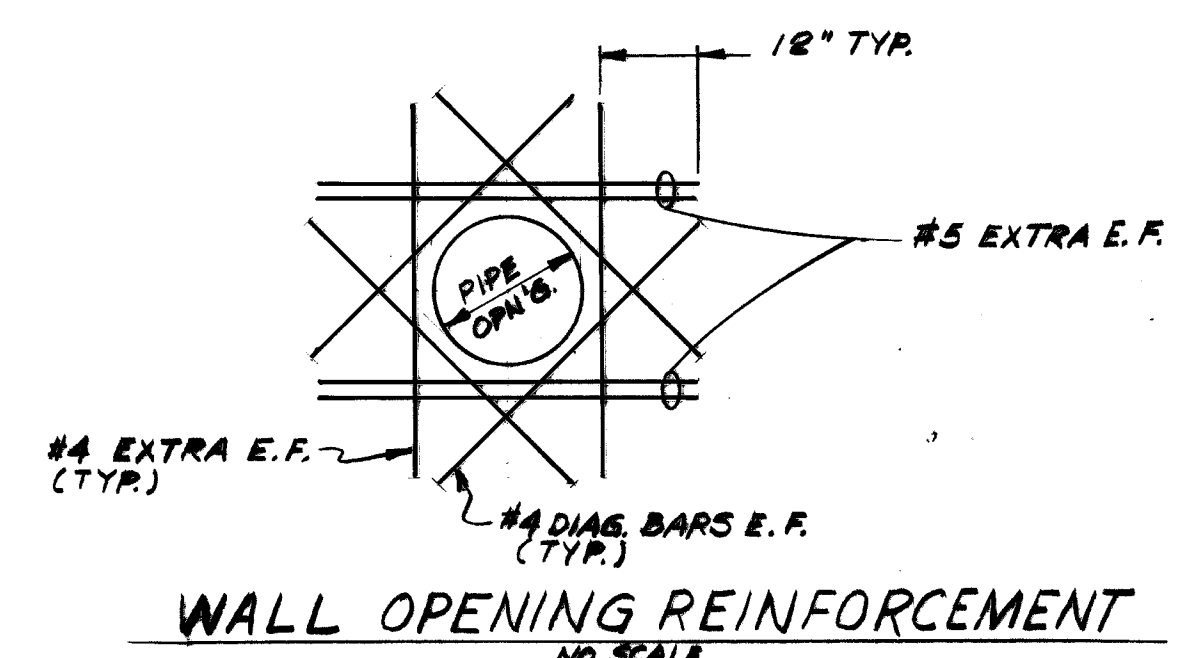
FOUNDATION PLAN
SCALE: 3/8"=1'-0"



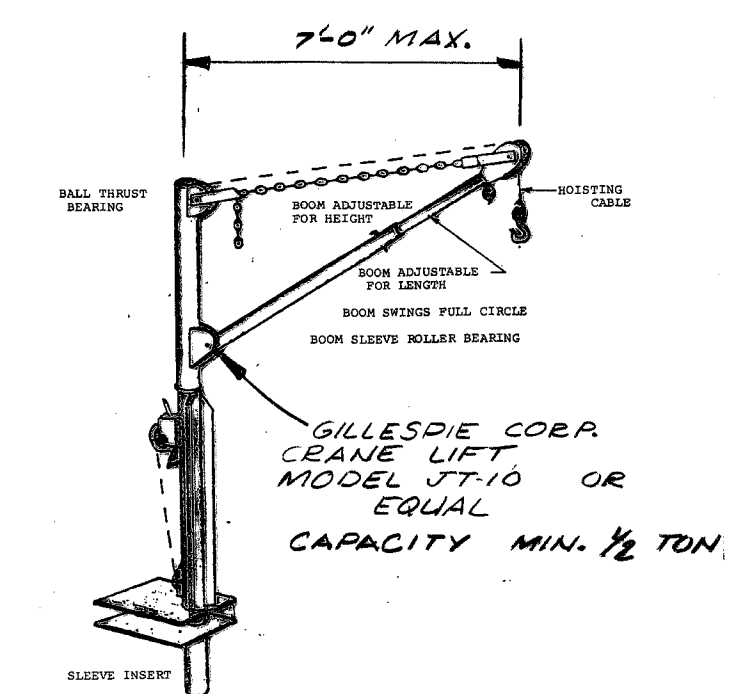
GRADE FLOOR PLAN
SCALE: 3/8"=1'-0"



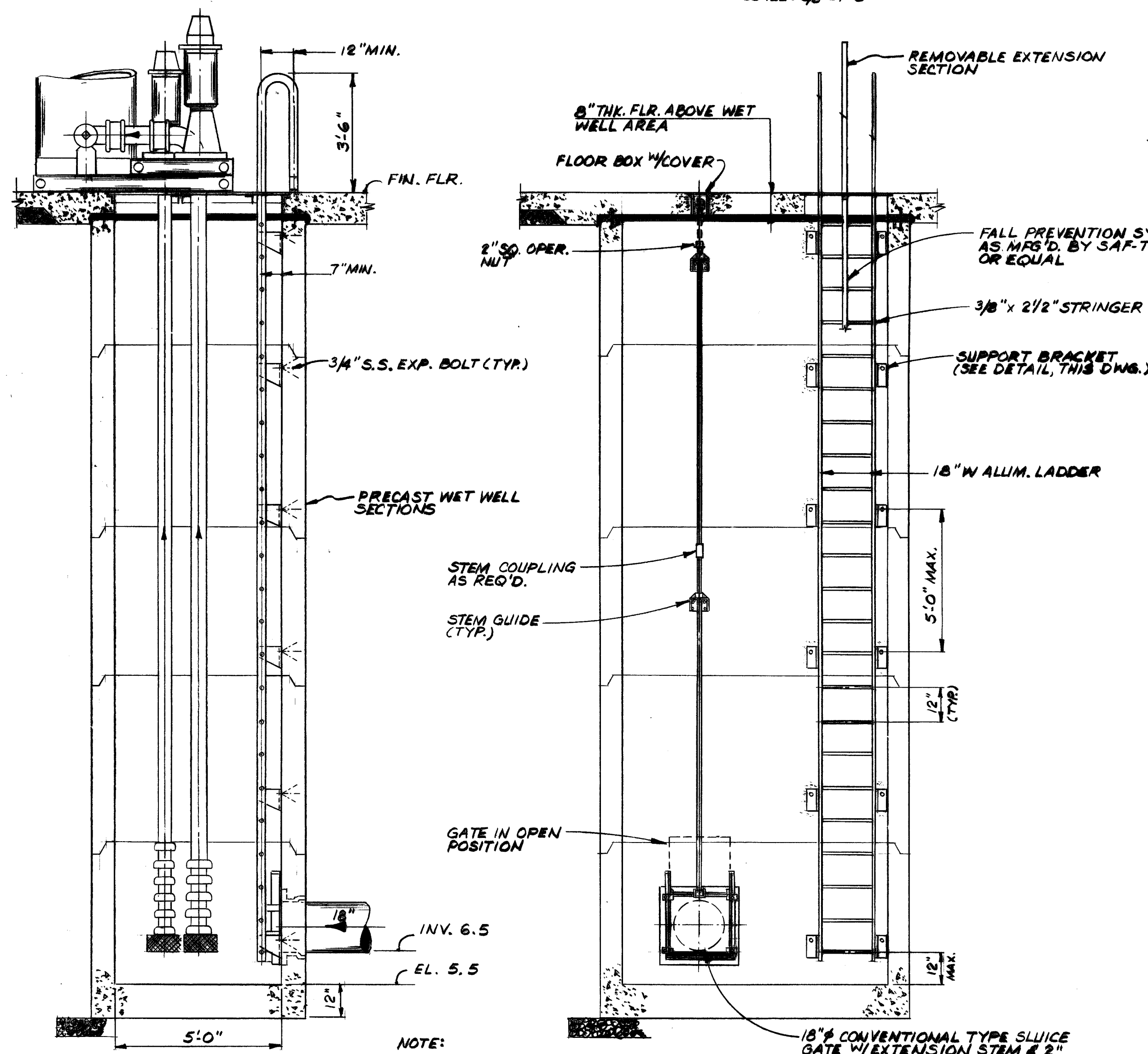
SECTION A-A
SCALE: 3/8"=1'-0"



WALL OPENING REINFORCEMENT
NO SCALE

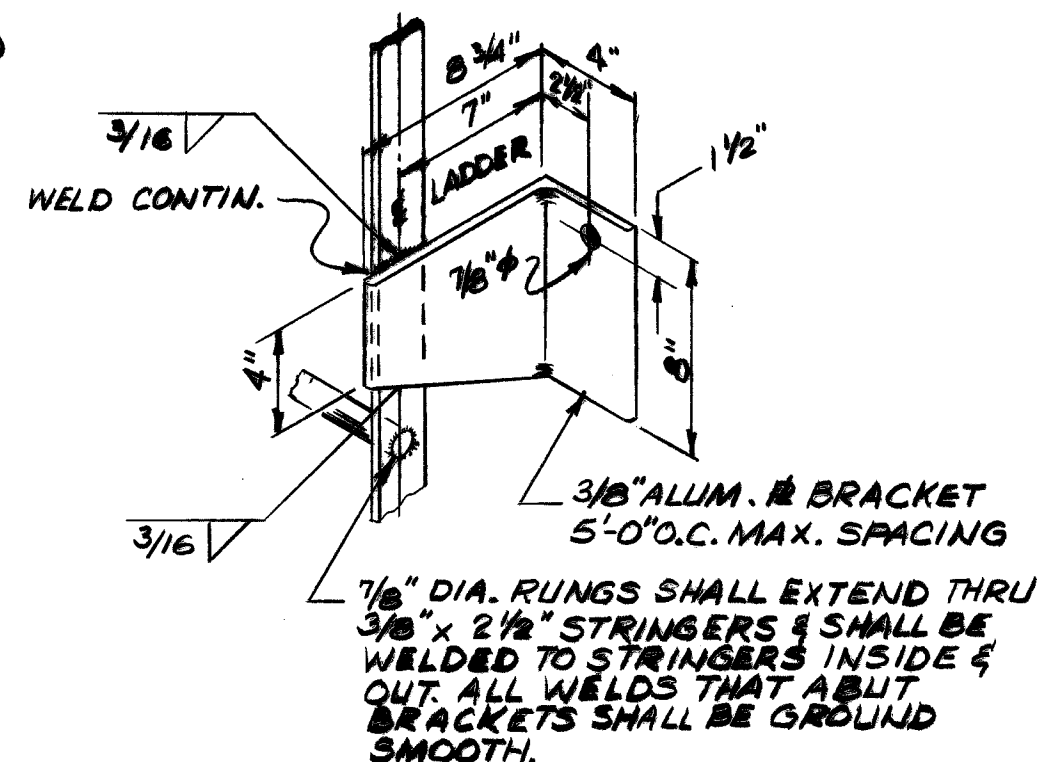


CRANE LIFT DETAIL
N. T. S.



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

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

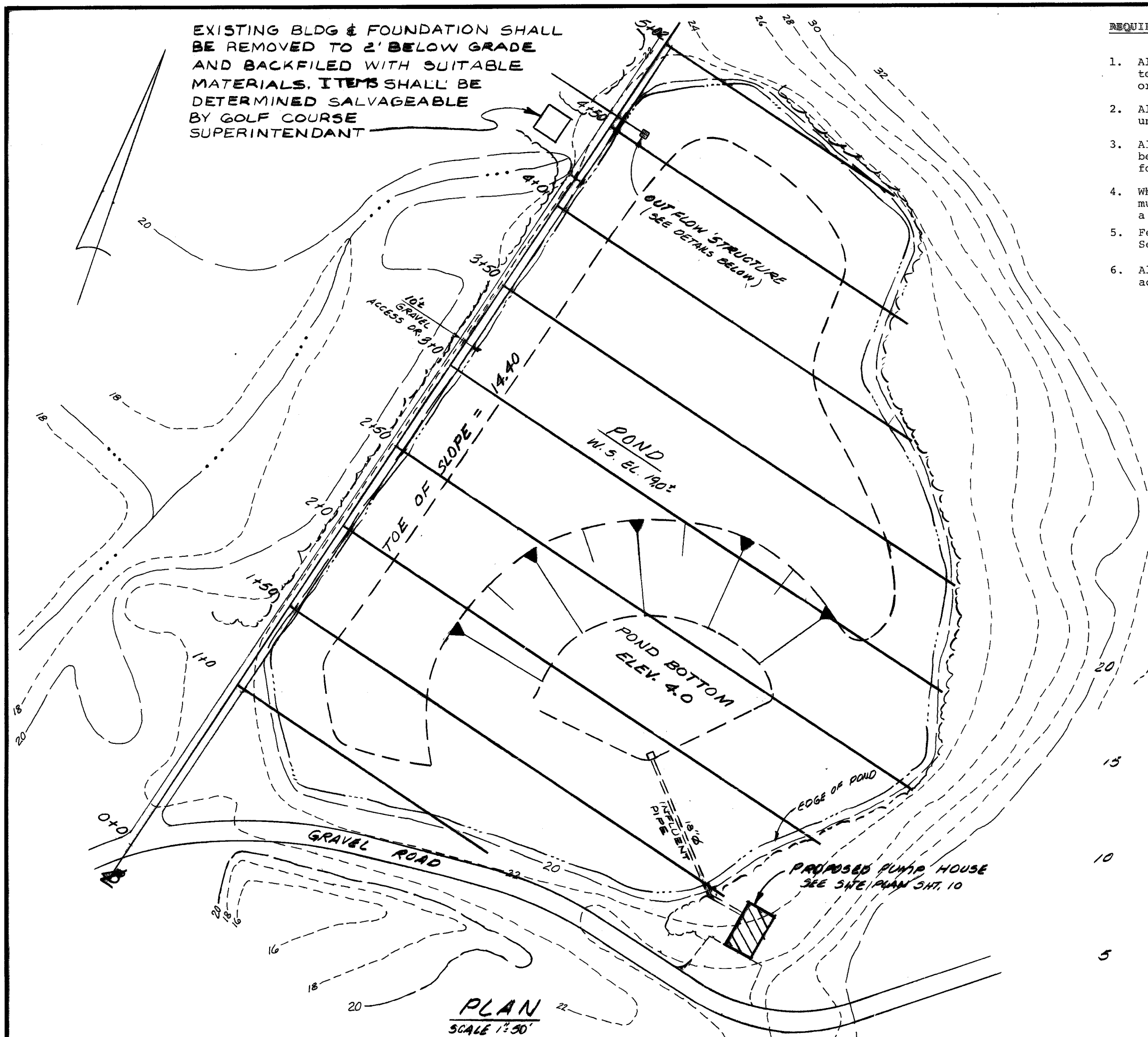


LADDER SUPPORT BRACKET DETAIL
NO SCALE

NOTE:
CONTRACTOR SHALL VERIFY WHICH EQUIPMENT WILL
BE SUPPLIED BY THE PUMPING SYSTEM MANUFACTURER.

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FELLOWS, READ & ASSOC., INC. CONSULTING ENGINEERS 310 MAIN STREET TOMBS RIVER, NEW JERSEY 08783		IRIGATION SYSTEM SPRING MEADOW GOLF COURSE PUMP HOUSE MECHANICAL PLANS, SECTIONS & DETAILS WALL TOWNSHIP MONMOUTH COUNTY NEW JERSEY	
JOSEPH R. READ, P.E. & L.S. PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 10300		DATE 12/13/83	
2 8-200 REV. PER D.B.C. COMMENTS		AGS	
1 11-200 REV. PER D.B.C. REQUEST		M.S.	
NO. DATE DESCRIPTION OF REVISION BY		NO. DATE DESCRIPTION OF REVISION BY	
1 11-200 REV. PER D.B.C. REQUEST		1 11-200 REV. PER D.B.C. REQUEST	
2 8-200 REV. PER D.B.C. COMMENTS		2 8-200 REV. PER D.B.C. COMMENTS	

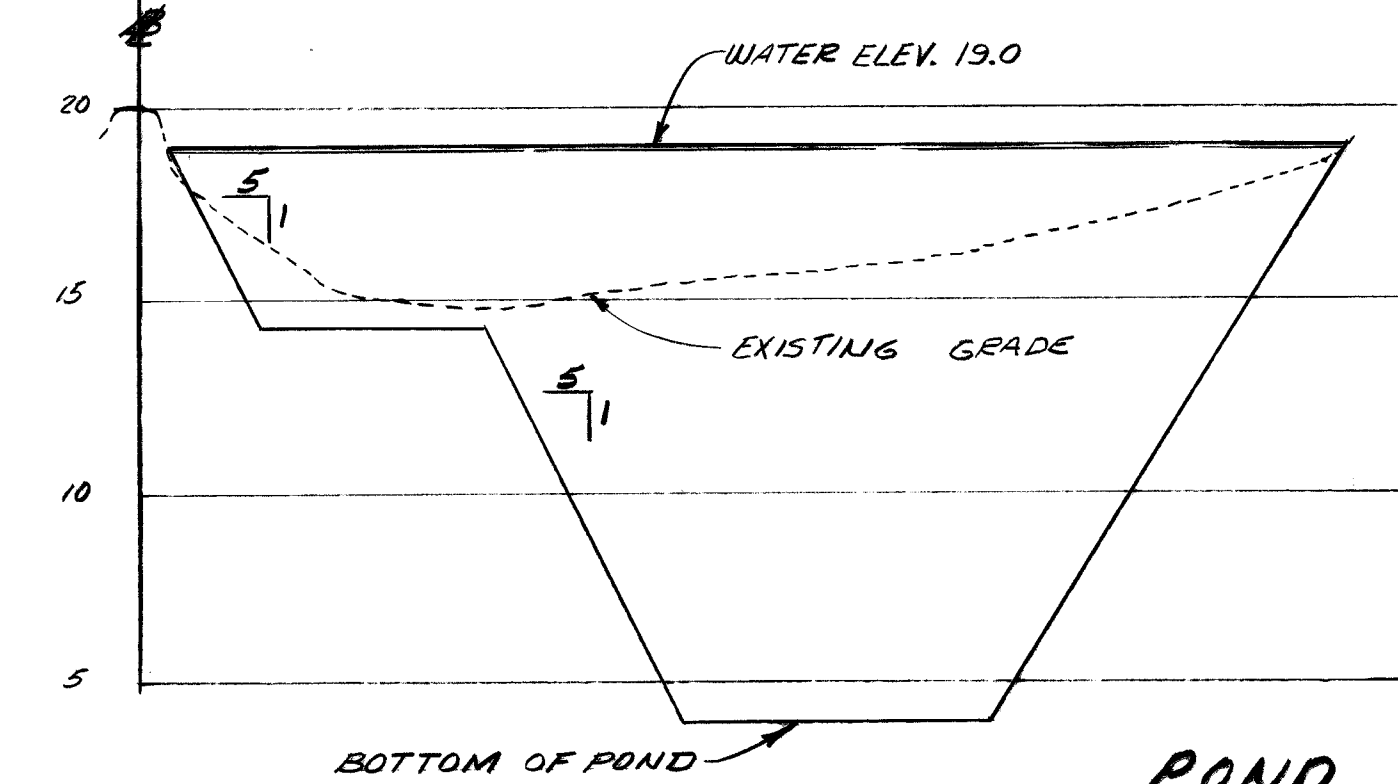
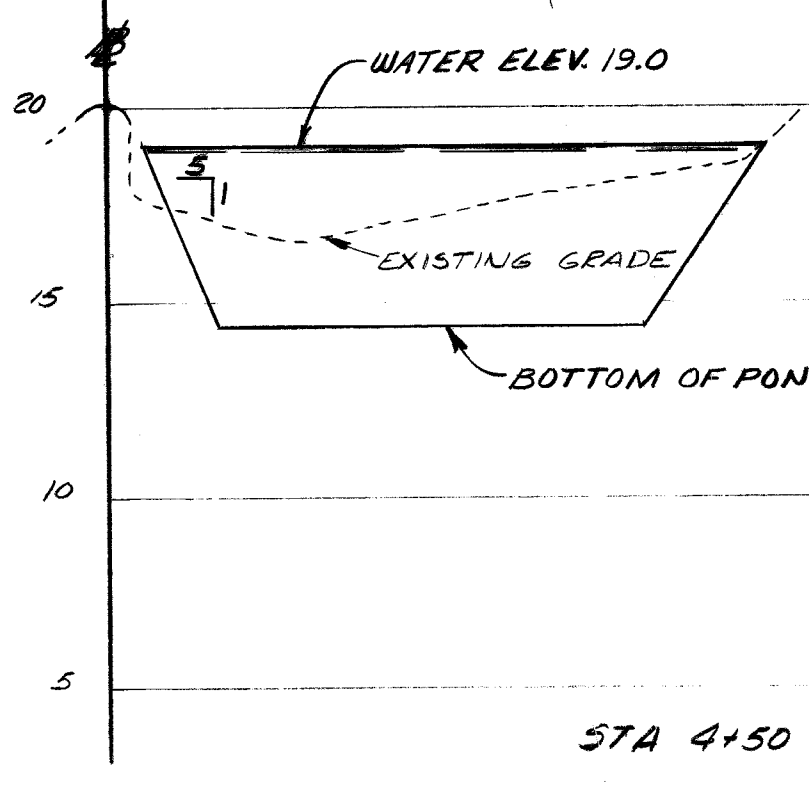
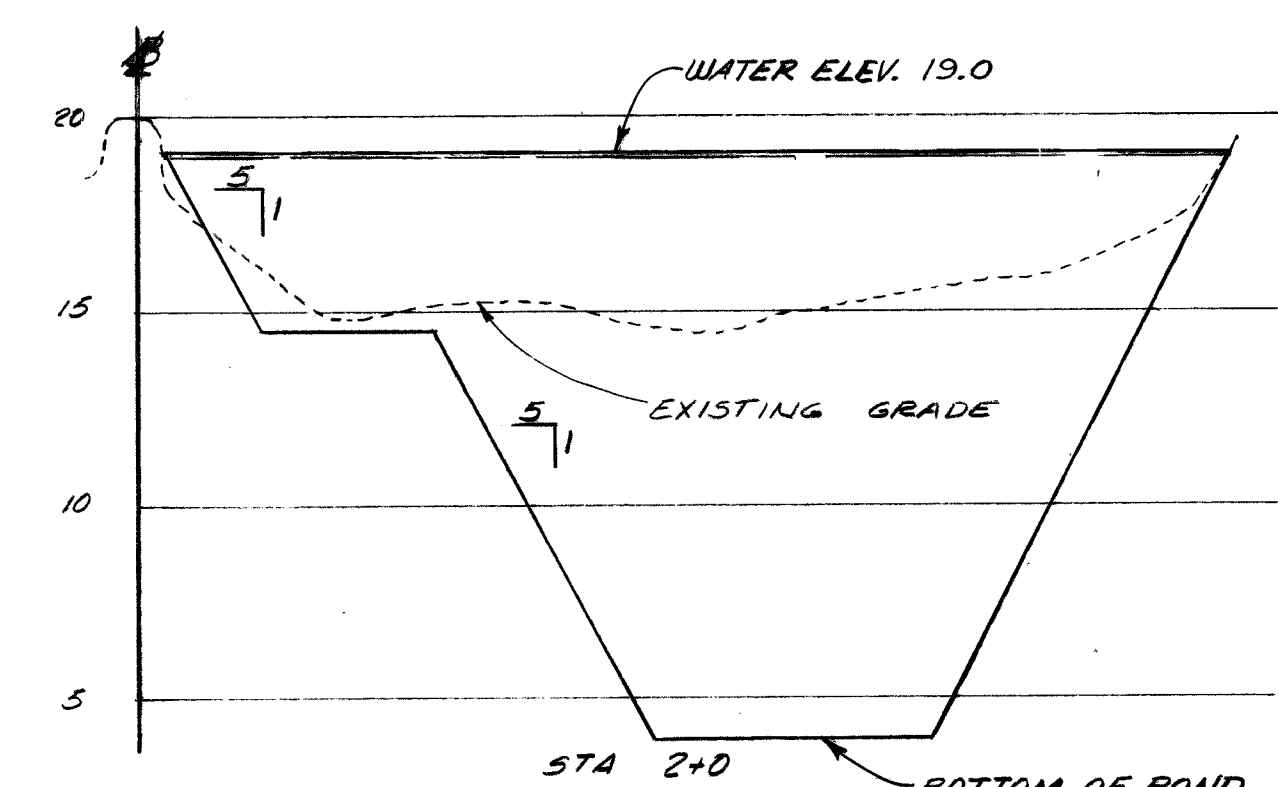
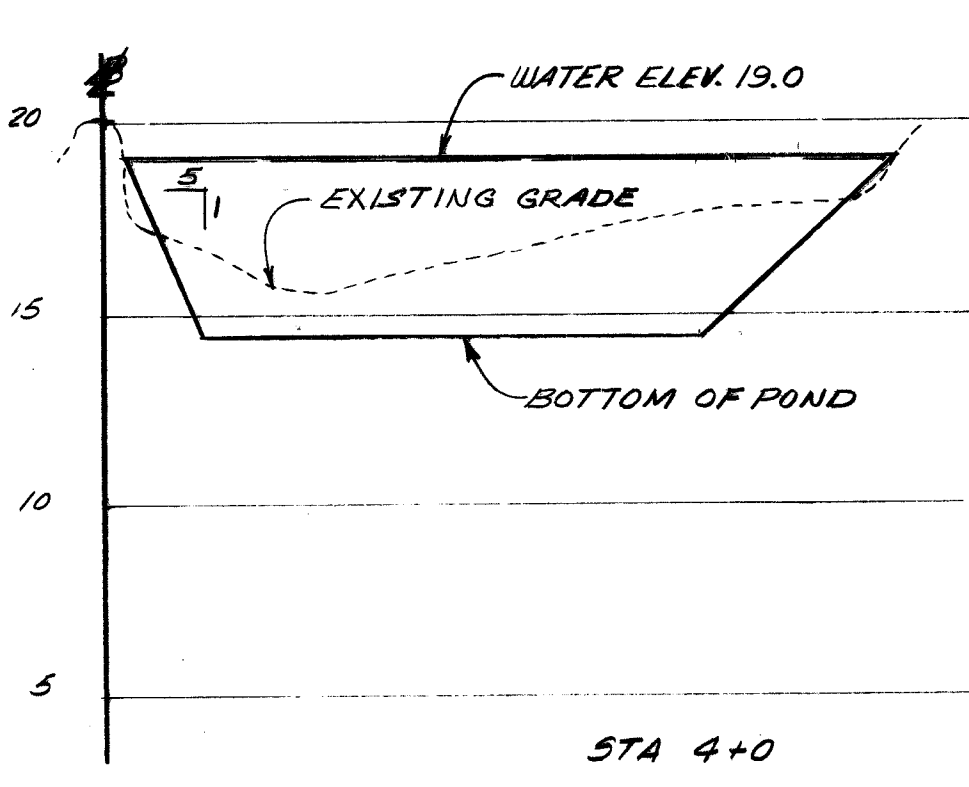
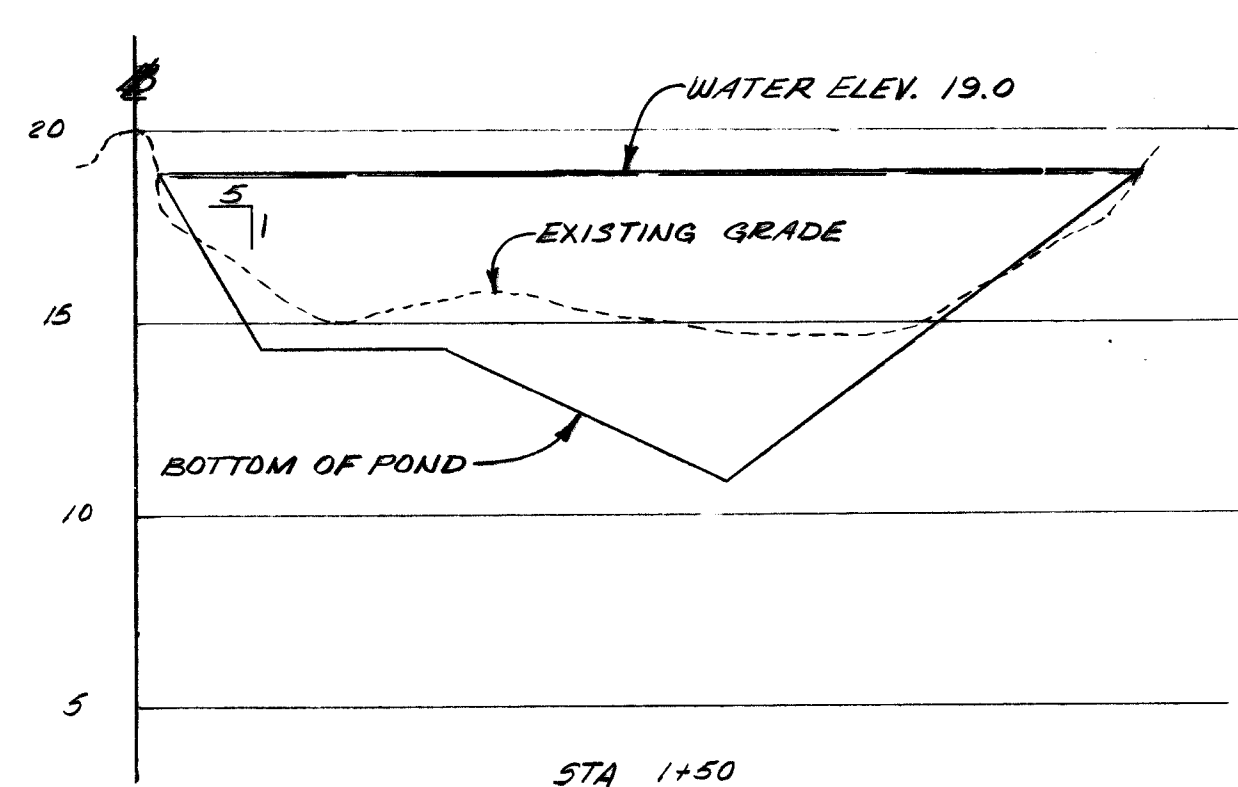
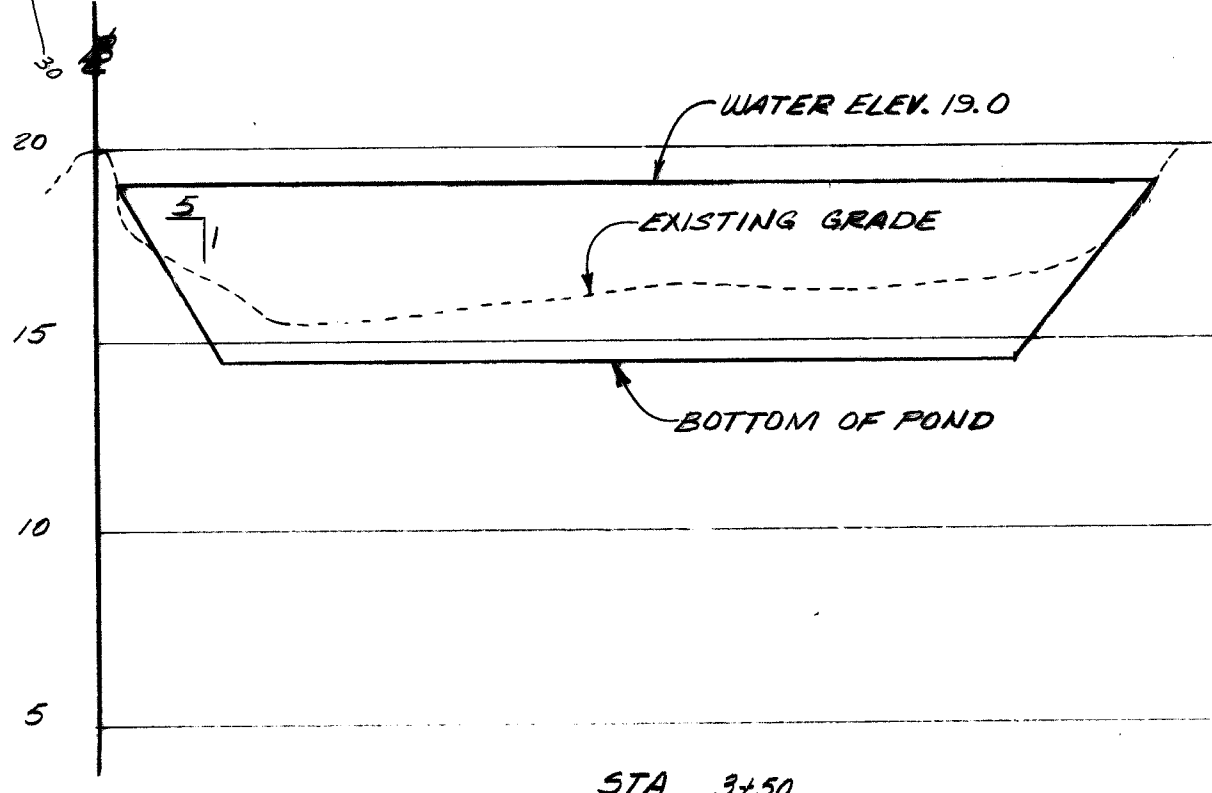
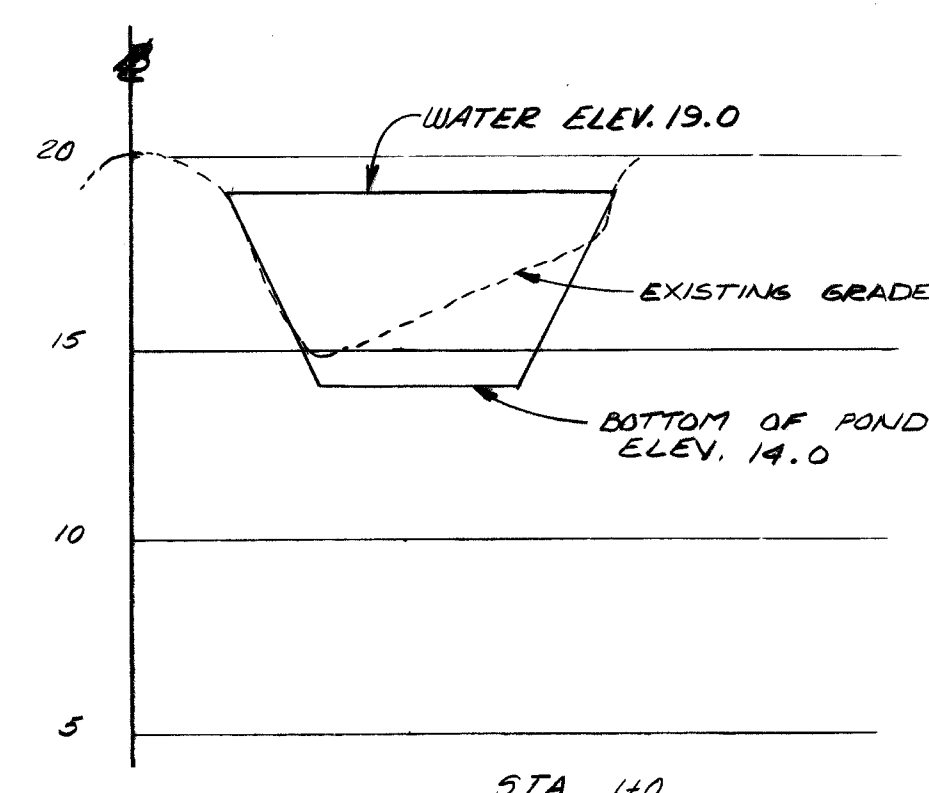
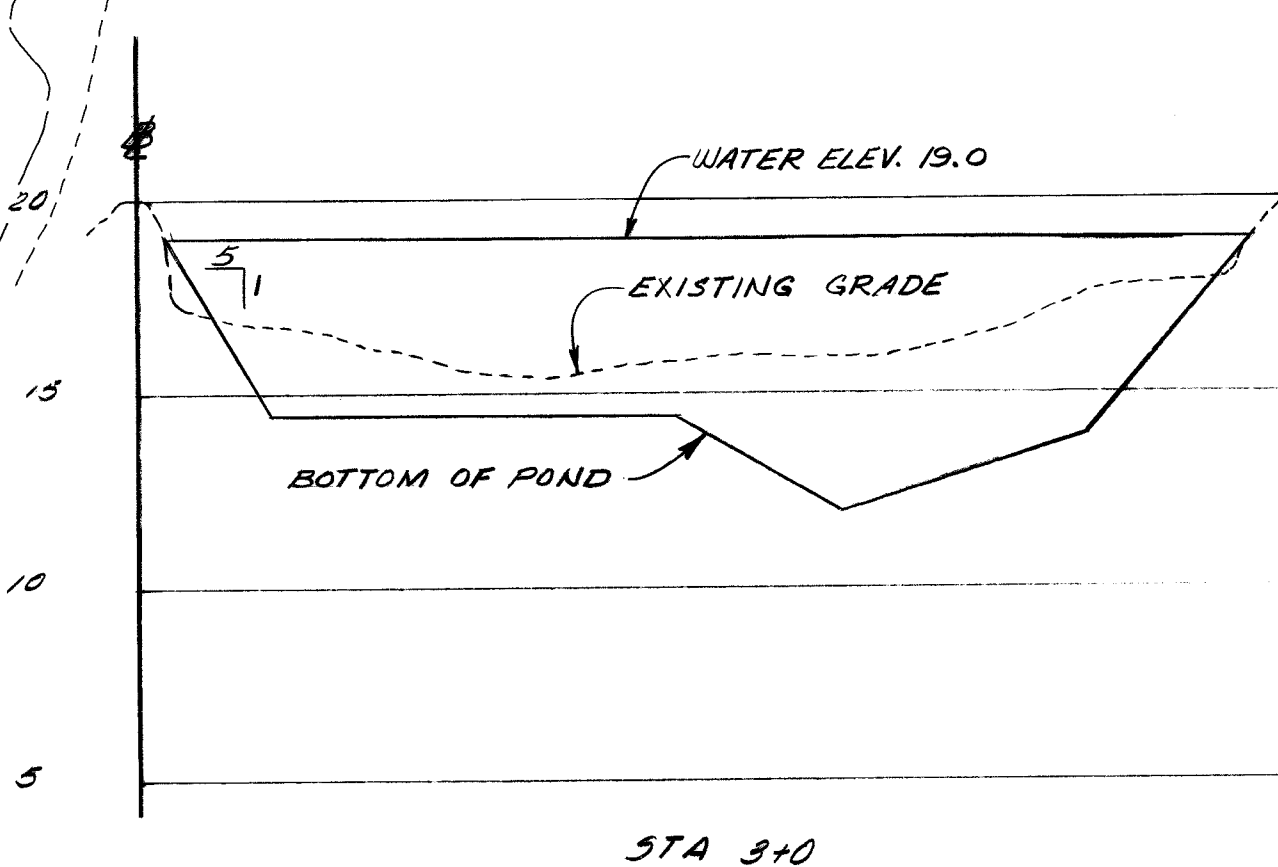


REQUIRED GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

- All erosion and sediment control practices shall be in place prior to any grading operations and installation of proposed structures or utilities.
- All erosion and sediment control practices shall be left in place until construction is completed and/or area is stabilized.
- All soil erosion and sediment control practices on this plan will be constructed in accordance with the "New Jersey State Standards for Soil Erosion and Sediment Control."
- Where necessary, disturbed areas shall be temporarily seeded and/or mulched until proper weather conditions exist for establishment of a permanent vegetative cover.
- Fertilizer, limestone and seeding shall be in accordance with Section 0254 of the specifications.
- All soil erosion and sediment control practices shall be in accordance with Section 0254 of the specifications.

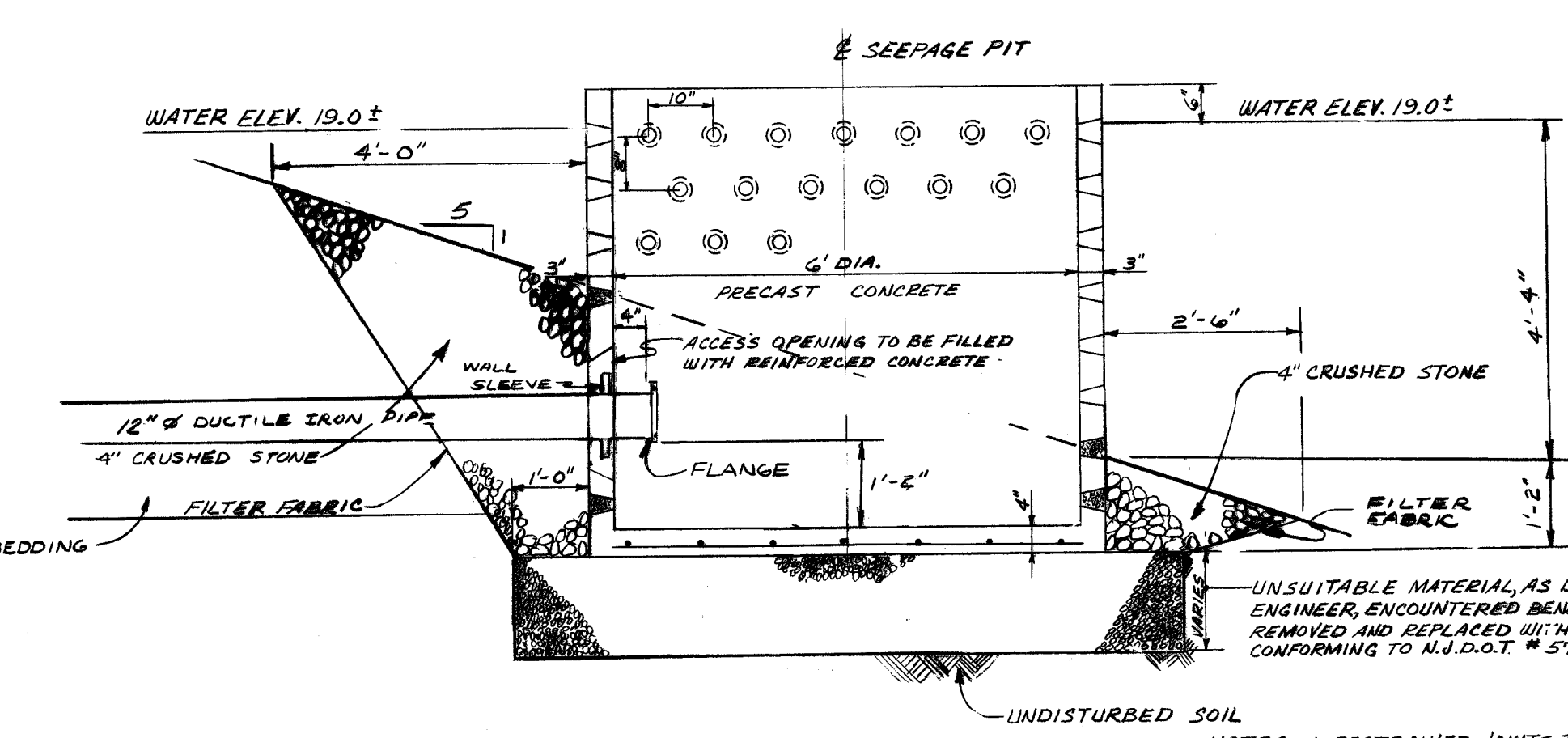
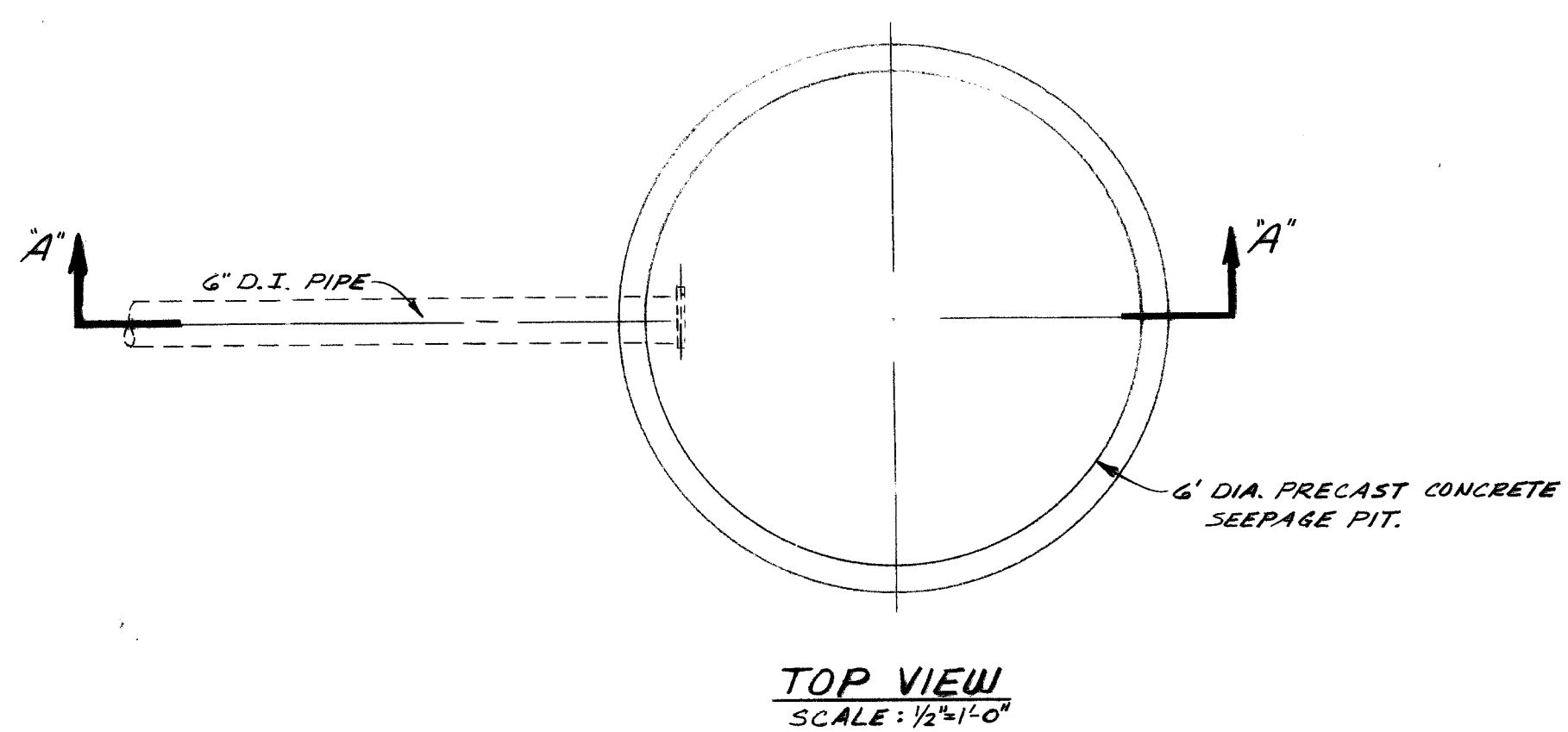
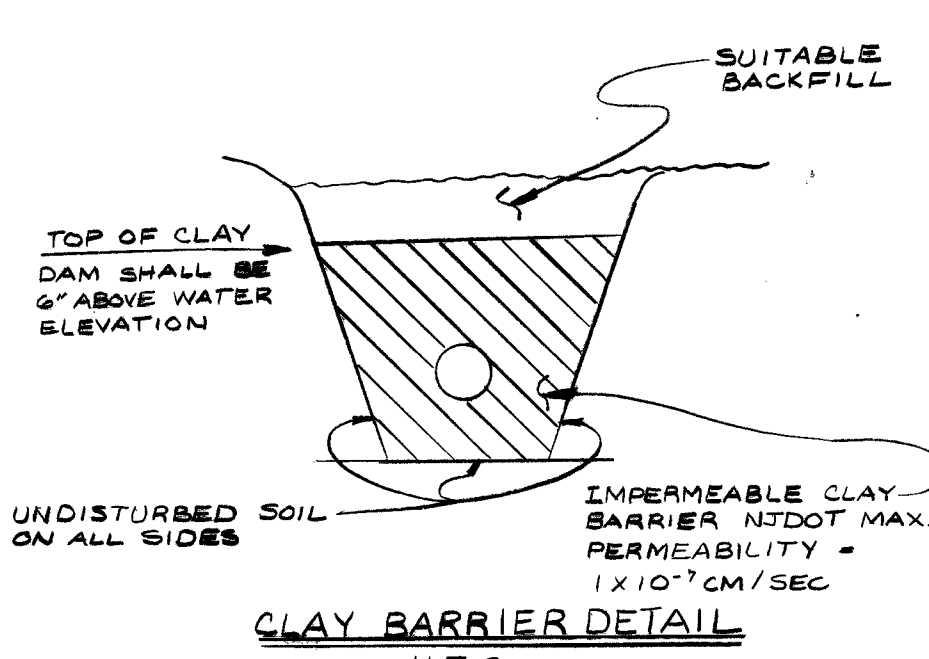
DEVELOPMENT SEQUENCE

- Installation of all sediment and erosion control devices 1 day
- Clearing and grading of spoil site areas. Construction of berm. 3 weeks
- Pond dredging and wetwell construction. 6 weeks
- Installation of irrigation system and utilities. 10 weeks
- Building construction 6 weeks
- Final grading 2 weeks
- Seeding & landscaping 2 weeks
- Removal of temporary sediment and erosion control devices. 3 days



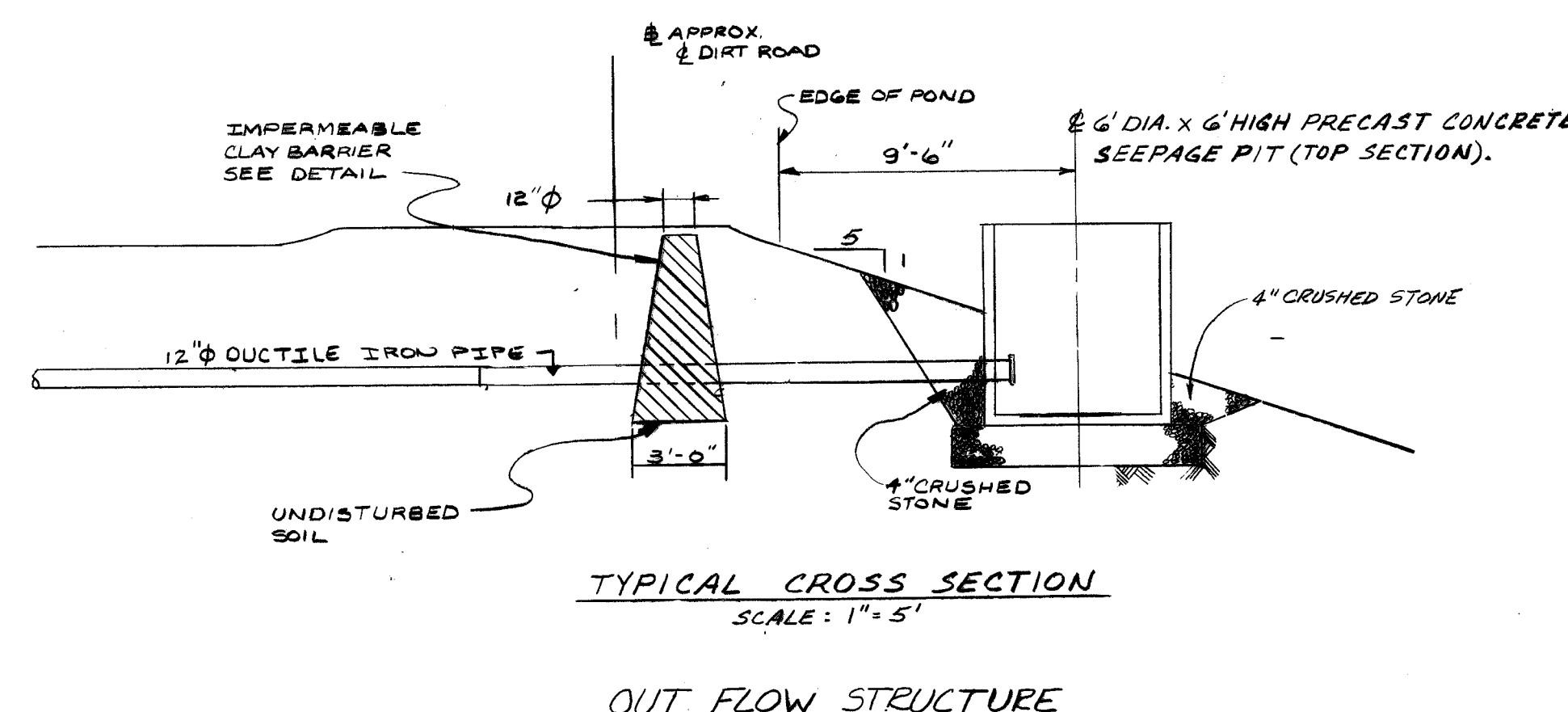
POND CROSS SECTIONS

SCALE: 1"=30' HORIZ.
1"=5' VERT.



SECTION A-A

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

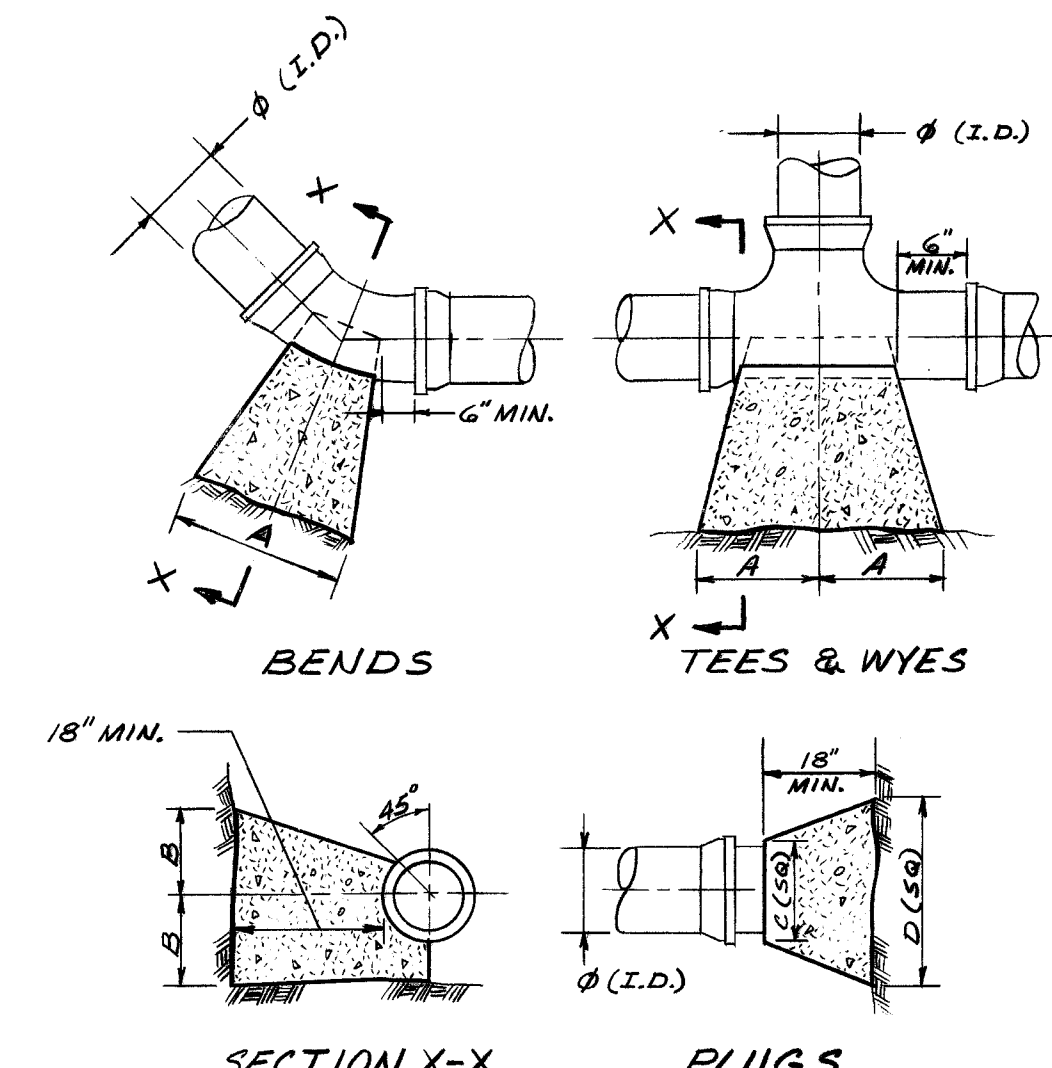
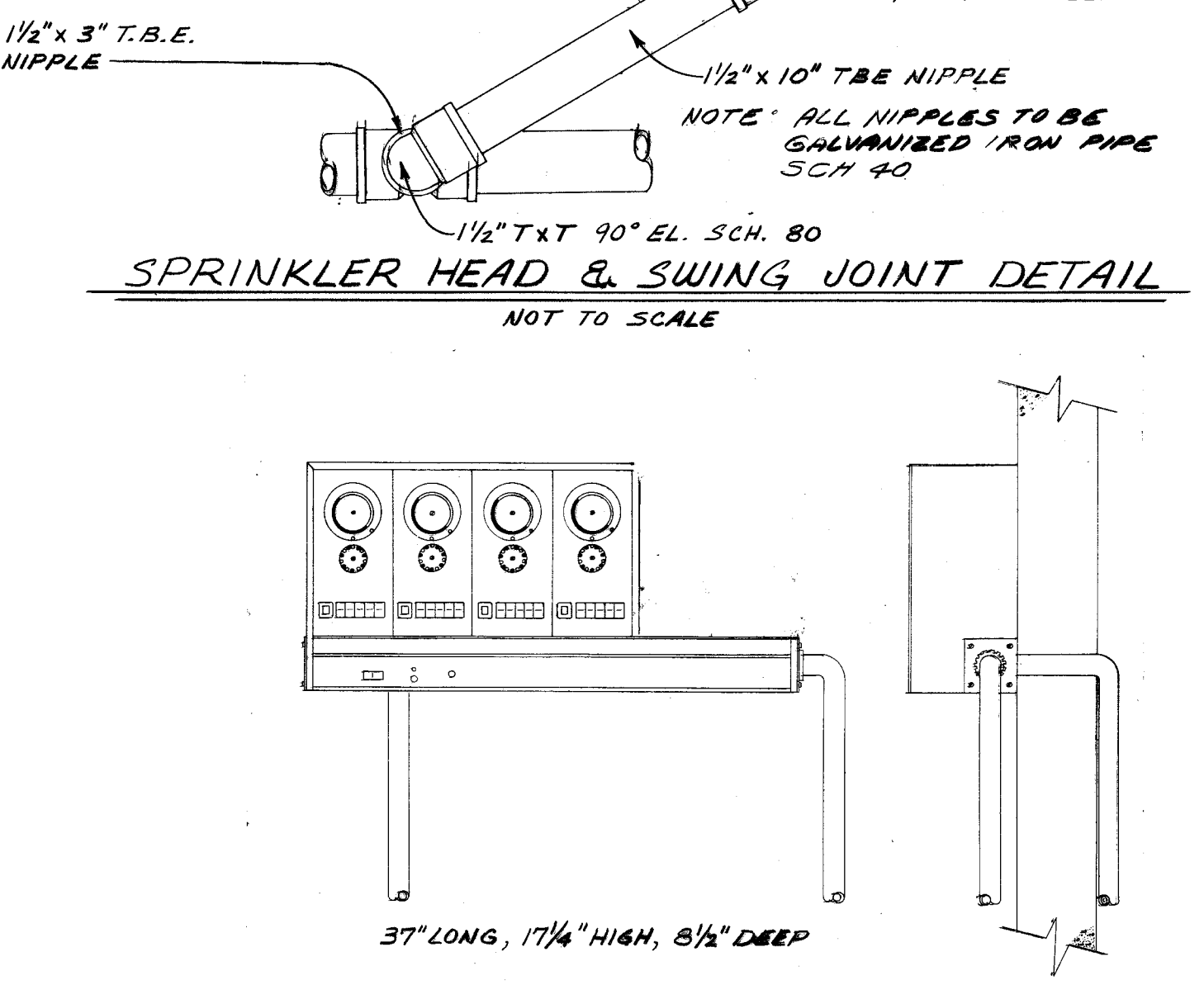


OUT FLOW STRUCTURE

ADVANCED LARGE-TURF CENTRAL CONTROLLER

DETAIL

NOT TO SCALE

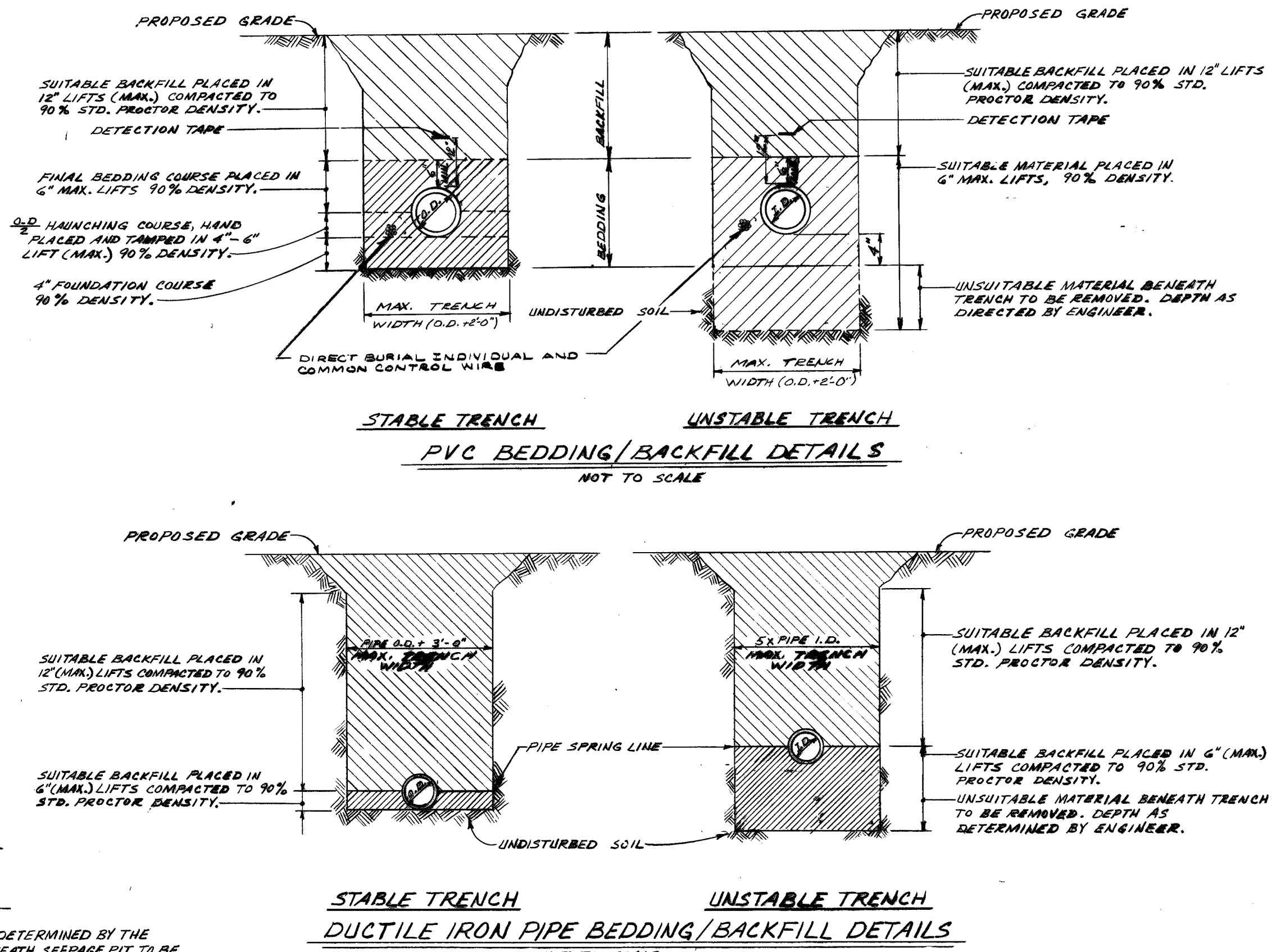


THRUST BLOCK DIM. (FT.)									
ITEM	22 1/2" BEND		45" BEND		90" BEND		TEES		PLUGS
DIA.	A	B	A	B	A	B	A	B	
3"	0.25'	0.25'	0.25'	0.25'	0.25'	0.25'	0.25'	0.25'	—
4"	0.25'	0.25'	0.25'	0.25'	0.33'	0.33'	0.25'	0.25'	0.25'
6"	0.25'	0.25'	0.33'	0.33'	0.5'	0.5'	0.42'	0.42'	—
10"	0.42'	0.42'	0.5'	0.5'	0.67'	0.67'	0.67'	0.67'	—

- NOTES: 1. FOR UNSYMMETRICAL TEES USE LARGEST DIA. PIPE AND SIZE THE THRUST BLOCK FROM ABOVE CHART.
2. FOR PIPE SIZES SMALLER THAN 3" USE 3" B THRUST BLOCK DIMENSIONS.
3. THRUST BLOCKS MUST BE PROVIDED AT EACH BEND, REDUCTION, TEE, WYE AND PLUG.

THRUST BLOCK DETAILS

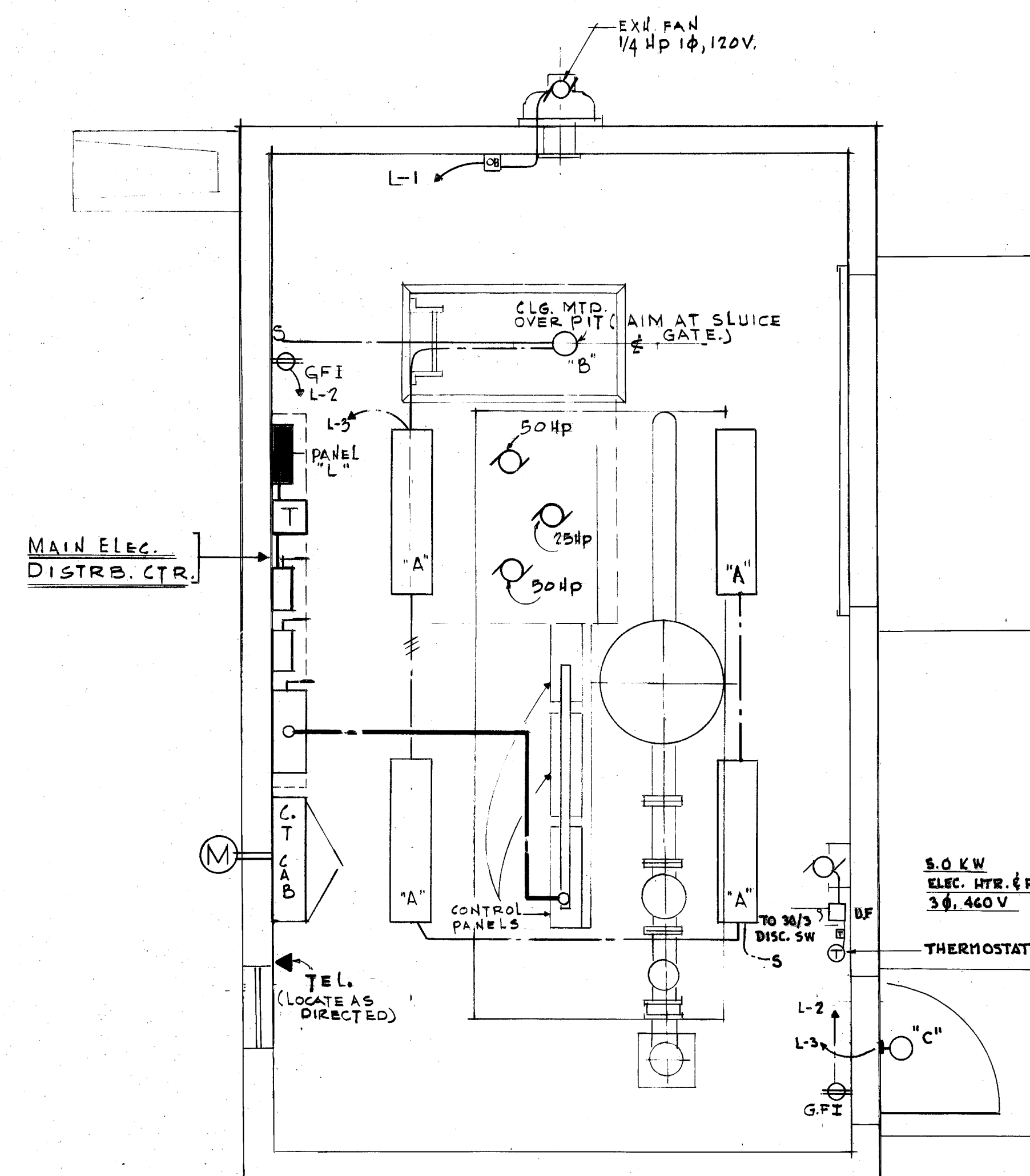
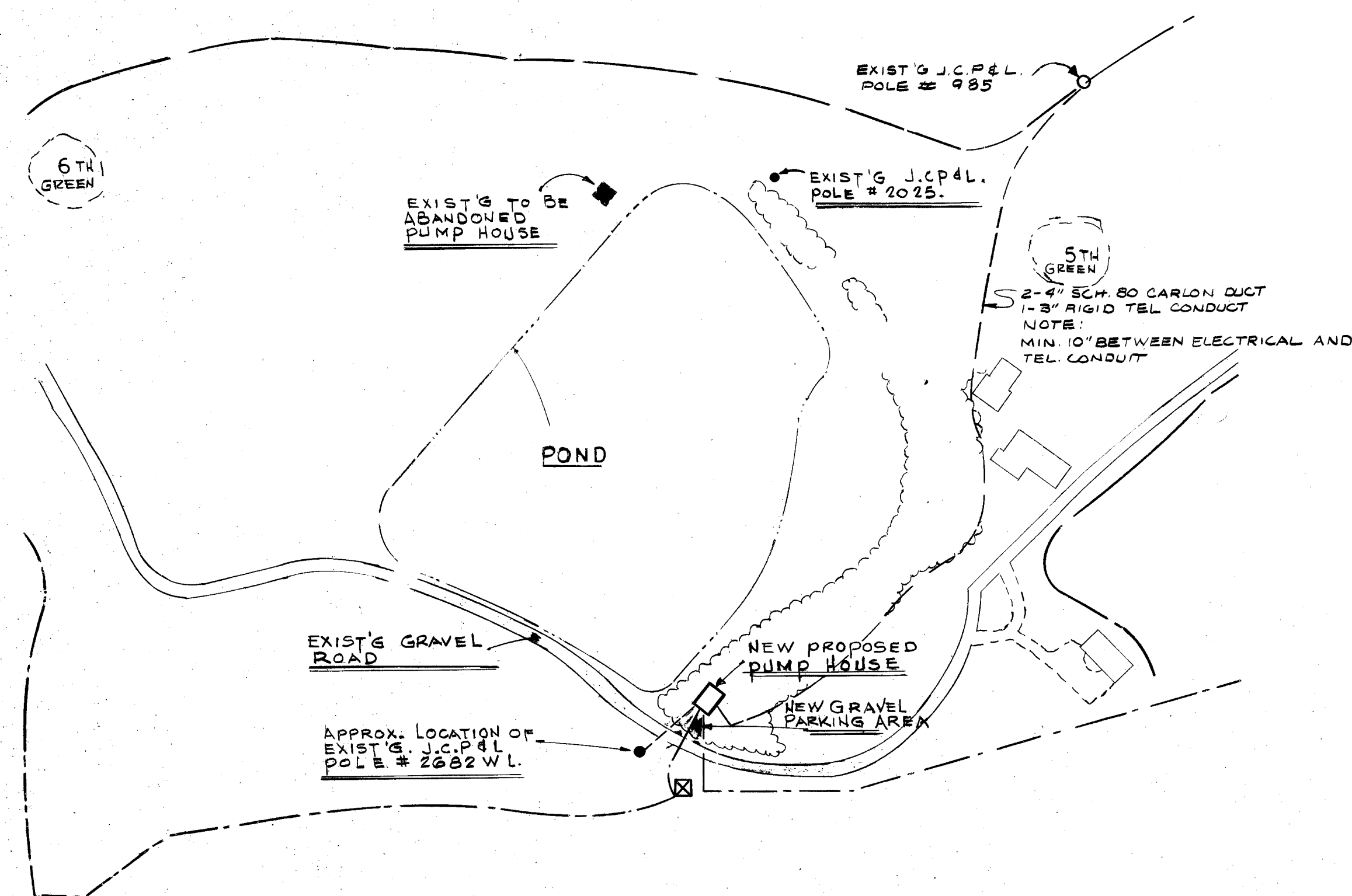
NOT TO SCALE



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FELLOWS, READ & ASSOC. INC.
CONSULTING ENGINEERS
310 MAIN STREET
TOMS RIVER, NEW JERSEY 08753
JOSEPH R. READ, PE & L.S.
PROFESSIONAL ENGINEER & LAND SURVEYOR N.J. LIC. NO. 10300

IRRIGATION SYSTEM			
SPRING MEADOW GOLF COURSE			
POND EXCAVATION AND			
MISCELLANEOUS DETAILS			
WALL TOWNSHIP			
MORRIS COUNTY NEW JERSEY			
DATE	BY	SCALE	REVISION
10/1/84	J.R.	AS SHOWN	1. POND PLAN
10/1/84	J.R.	AS SHOWN	2. POND CROSS SECTIONS
10/1/84	J.R.	AS SHOWN	3. POND BEDDING
10/1/84	J.R.	AS SHOWN	4. POND BACKFILL
10/1/84	J.R.	AS SHOWN	5. POND DREDGING
10/1/84	J.R.	AS SHOWN	6. POND SEEDING
10/1/84	J.R.	AS SHOWN	7. POND LANDSCAPING
10/1/84	J.R.	AS SHOWN	8. POND REMOVAL



LEGEND

- ☐ SURFACE MOUNTED INCANDESCENT OR HID LIGHTING
FIXTURE - TYPE NOTED.
 - ☐ WALL BRACKET LIGHTING FIXTURE - TYPE NOTED.
 - S SINGLE POLE SWITCH.
 -  DUPLEX CONVENIENCE OUTLET - 125 VOLTS, 20 AMP, GROUNDING TYPE.
 -  277/480V. PANEL
 - CONDUIT EXPOSED
 - ☐ DISCONNECT SWITCH - UNFUSED.
 - ☒ FUSED DISCONNECT - SIZE / POLES / FUSE AMPS.
- 30/3/2013
- SW MOTOR STARTING SWITCH WITH THERMAL OVERLOAD PROTECTION.
 - ☒ MOTOR - NUMBER INDICATES HORSEPOWER.
 - ☒ COMBINATION REDUCED VOLTAGE MOTOR STARTER/DISCONNECT.
 - ☐ DRY TYPE TRANSFORMER.

Notes

1. ELBOWS FOR ELECTRIC CONDUIT SHOULD BE LONG RADIUS SWEEPS.
2. ALL BUSMANN FUSES WITHIN ALL DISCONNECT PANELS SHALL HAVE THE SAME RATING.

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JOSEPH R. READ, P.E. & L.S.

CHARLES A. SCHOENBERGER
3231 OSBORN TERRACE
TOMS RIVER N.J 08753

IRRIGATION SYSTEM
SPRING MEADOW GOLF COURSE
PUMP HOUSE - ELECTRICAL PLAN
WALL TOWNSHIP
MONMOUTH COUNTY NEW JERSEY

FIELD BOOK	SHANNON	SCALE	PROJECT NO.	FILE SHANNON NO.
	C.A.S.	AS SHOWN		
SET DATE NO.	CALC BY	DATE		
13	CHECKED BY	JAN. 84		
12	C.A.S.			