

December 12, 2024

**Subject: RFQ #2512-A Crabapple Booster Pump #2 Motor VFD
Addendum #1**

Gentlemen/Ladies:

Below, please find responses to questions, clarification, or additional information for the above referenced **RFQ**. You will need to consider this information when preparing your quote.

1. How many soft starters are there?

This is a project for installation of a single VFD for Crabapple Booster Pump #2. Both the booster pumps at Crabapple booster station have a soft start but Booster #2 is out of commission and is why we are choosing to have it upgraded to VFD.

2. Can the County provide the original wiring diagrams for pump 2?

See attached.

3. Is there an active harmonic filter required for this project?

No.

4. Can you please provide contact details for FCWS integrator J.K. Duren for Crabapple Booster Pump #2 Motor VFD BID#5617555?

Jim Ham, J.K. Duren Technician, (770) 328-1058

5. On the Contractor affidavit under O.C.G.A page are you just looking for our FEIN# and the date it was authorized or are you looking for a different Federal#?

This is the E-Verify number. The E-Verify number is different from your FEIN number. It is a 5-7-digit number with no dashes. Yes, this should be the date that the E-Verify number was authorized.

Received by (Name): _____ Company _____

Note: If this addendum is not returned to the Fayette County Purchasing Department or if it is returned not signed, responding individuals, companies or other organizations will still be responsible for the requirements of this addendum and the specifications or changes herein.

The opening date for this RFQ has not changed. **The opening time and date are 3:00p.m., Wednesday, December 18, 2024.** Quotes must be received by the Purchasing Department at the address above, Suite 204, at or before the opening date and time. **Please advise that quotes can also be emailed to ccobb@fayettecountyga.gov or faxed to (770) 719-5544.**

The deadline for inquiries has passed, so the Purchasing Department will not be able to accept any additional questions after this time.

If you have questions, please contact Colette Cobb, Contract Administrator at (770) 305-5115, fax (770) 719-5544 or email at ccobb@fayettecountyga.gov .

Sincerely,



Ted L. Burgess
Chief Procurement Officer

TLB/cc

Attachment

CRABAPPLE BOOSTER PUMP STATION FOR FAYETTE COUNTY WATER SYSTEM

TONY V. PARROTT, MANAGER

AUTHORIZED BY:

FAYETTE COUNTY BOARD OF COMMISSIONERS

ROBERT SPRAYBERRY, CHAIRMAN

SCOTT BURRELL, VICE-CHAIRMAN

HAROLD BOST

HERB FRADY

GLEN GOSA

 Mallett & Associates, Inc.
115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30215
PHONE: 770-719-3333
FAX: 770-719-3377

CRABAPPLE BOOSTER PUMP STATION
FOR
FAYETTE COUNTY WATER SYSTEM

COVER SHEET

					DESIGN	DWJ	SCALE
					DRAWN	DWJ	DATE 7-1-97
				LAND LOT -	CHECK	JEM	FILE NO. 98164
				DISTRICT -	APPROVED	JEM	SHEET NO. 1
				COUNTY -			
REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE -		

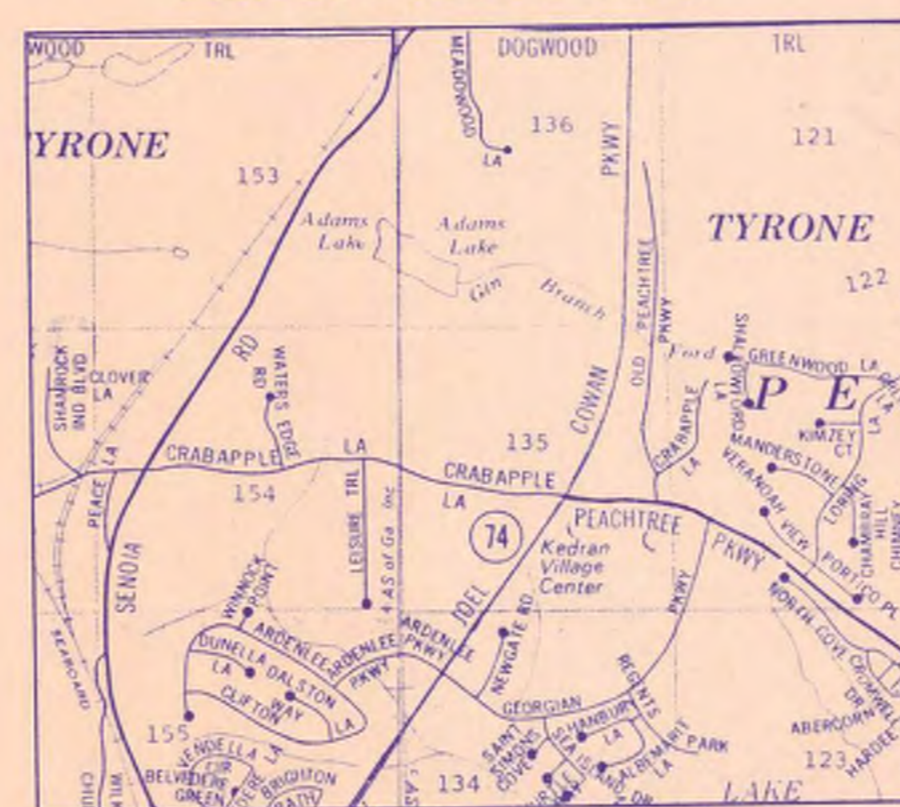
INDEX TO DRAWINGS

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1	COVER SHEET	12	BOOSTER PUMP STATION LEGENDS & SITE PLAN (E-1)	20	S.R. 54 W.L. RELOCATION PLAN AND SECTIONS
2	INDEX TO DRAWINGS, LOCATION MAP & NOTES	13	BOOSTER PUMP STATION SINGLE LINE DIAGRAM (E-2)	21	S.R. 54 W.L. RELOCATION PLAN AND SECTIONS
3	BOOSTER PUMP STATION SITE PLAN	14	BOOSTER PUMP STATION SCHEMATIC DIAGRAMS (E-3)		
4	HIGHWAY CROSSING & PIPING MODIFICATIONS	15	BOOSTER PUMP STATION POWER & LIGHTING PLAN (E-4)	22	BIRKDALE DRIVE AERIAL CREEK CROSSING
5	BOOSTER PUMP STATION PLAN & SECTIONS (P-1)				
6	BOOSTER PUMP STATION FLOOR & ROOF PLAN (A-1)	16	CRABAPPLE LANE W.L. RELOCATION PLAN AND PROFILES	23	DETAIL SHEET
7	BOOSTER PUMP STATION EXTERIOR ELEVATIONS (A-2)	17	CRABAPPLE LANE W.L. RELOCATION PLAN AND PROFILES	24	DETAIL SHEET
8	BOOSTER PUMP STATION BUILDING SECTIONS (A-3)	18	CRABAPPLE LANE W.L. RELOCATION PLAN AND PROFILES		
9	BOOSTER PUMP STATION DETAILS (A-4)				
10	BOOSTER PUMP STATION FOUNDATION PLAN (S-1)	19	PRV PIT @ S.R. 54		
11	BOOSTER PUMP STATION CRANE SUPPORT PLAN (S-2)				

GENERAL NOTES

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION, PEACHTREE CITY, AND FAYETTE COUNTY STANDARDS AND SPECIFICATIONS.
2. ANY EXISTING UTILITIES SHOWN ARE APPROXIMATE AND DO NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGED UTILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST TO FAYETTE COUNTY WATER SYSTEM. NO COMPENSATION WILL BE MADE FOR DELAYS DUE TO EXISTING UTILITIES.
3. ALL TIE-INS TO BE COORDINATED WITH FAYETTE COUNTY WATER SYSTEM. SCHEDULING FOR TIE-INS TO BE DETERMINED BY FAYETTE COUNTY WATER SYSTEM. CONTACT MR. TONY PARROTT AT 461-1146 FOR SCHEDULING.
4. ALL EXISTING VALVES TO BE OPENED AND CLOSED BY FAYETTE COUNTY WATER SYSTEM EMPLOYEES ONLY.
5. ALL WATER LINE TO BE MINIMUM PRESSURE CLASS 300 CEMENT MORTAR LINED, PUSH-ON JOINT, DUCTILE IRON PIPE PER ANSI C151/A21.51. ALL BURIED FITTINGS TO BE MECHANICAL JOINT, DUCTILE IRON. RESTRAINED JOINT PIPE SHALL BE USED WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS. INTERIOR PIPING, FITTINGS AND FLANGES SHALL BE FLANGED, DUCTILE IRON, IN ACCORDANCE WITH ANSI 21.54.
6. PORTIONS OF THIS PROJECT ARE UNDER THE JURISDICTION OF THE GEORGIA DEPARTMENT OF TRANSPORTATION. CONTRACTOR TO CONFORM TO ALL REGULATIONS OF THE GEORGIA DEPARTMENT OF TRANSPORTATION.
7. CONTRACTOR IS ADVISED TO VISIT THE PROPOSED WATER ROUTE IN ORDER TO FAMILIARIZE HIMSELF WITH FIELD CONDITIONS, UTILITY LOCATIONS, AND AREAS OF POSSIBLE ROCK EXCAVATION.
8. THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE GEORGIA DEPARTMENT OF TRANSPORTATION, FAYETTE COUNTY, PEACHTREE CITY, DEPT. OF NATURAL RESOURCES AND U.S. ARMY CORPS OF ENGINEERS SEDIMENT AND EROSION CONTROL MEASURES IN THE PERFORMANCE OF THE INDICATED WORK.
9. DRIVEWAYS DESIGNATED AS "GRAVEL" WHICH HAVE BEEN PAVED PRIOR TO WATER LINE INSTALLATION SHALL BE FREE-BORED (NO CASING) AT NO ADDITIONAL COST.
10. CONTRACTOR SHALL PRESERVE, REPAIR AND/OR REPLACE ALL PROPERTY LINES, SIGNS, DRIVEWAYS, MAILBOXES, CULVERTS, GRASSING, FENCES, LANDSCAPING, SOIL, AND MISC. PLANTINGS OR STRUCTURES SUCH THAT THE DISTURBED AREAS ARE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER. THIS SHALL BE DONE AT NO ADDITIONAL COST.
11. PORTIONS OF THIS PROJECT MAY REQUIRE CLEARING AND GRUBBING. NO ADDITIONAL CONTRACT TIME OR ADDITIONAL PAYMENT WILL BE MADE TO MEET THIS REQUIREMENT. ALL TIMBER, BRUSH AND DEBRIS RESULTING FROM CLEARING SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST TO THE CONTRACT.
12. NO ADDITIONAL COMPENSATION WILL BE PAID FOR EQUIPMENT, MATERIALS AND LABOR REQUIRED FOR PRESSURE TESTING.
13. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENTIAL AND COMMERCIAL PROPERTIES THROUGHOUT THE WORK.
14. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER COMPANY AND/OR COMETA-FAYETTE EMC FOR TEMPORARY POWER POLE SUPPORT IN AREAS WHERE GUY WIRES CONFLICT WITH WATER LINE INSTALLATION. THIS WILL BE DONE AT NO ADDITIONAL COST.
15. CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER COMPANY AND/OR COMETA-FAYETTE EMC FOR SHIELDING OF POWER LINES AND/OR TEMPORARY REMOVAL AND REPLACEMENT OF OVERHEAD LINES OR POLES WHICH MAY CONFLICT WITH PIPE INSTALLATION. THIS SHALL BE DONE AT NO ADDITIONAL COST.
16. EROSION CONTROL WILL BE STRICTLY ENFORCED THROUGHOUT THE WORK. CONTRACTOR SHALL SUPPLY AND INSTALL SILTING FENCING, HAY BALES, MULCH MATS, SLOPE STABILIZATION FABRIC, RIP-RAP, TEMPORARY AND PERMANENT GRASSING AS REQUIRED TO PREVENT EROSION UNTIL PERMANENT GRASSING HAS BEEN FULLY ESTABLISHED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED, REINSTALLED OR RESEDED AS DIRECTLY BY THE ENGINEER. COST FOR EROSION CONTROL REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SIZE AND CLASS OF PIPE.
17. FINAL GRADING SHALL BE DONE BY LANDSCAPE TRACTOR OR BY SIMILAR EQUIPMENT TO PROVIDE A SMOOTH, UNIFORM SURFACE FREE OF ROCKS, DIRT CLOUDS, AND OTHER DEBRIS. NO ADDITIONAL PAYMENT WILL BE MADE TO MEET THIS REQUIREMENT.

LOCATION MAP



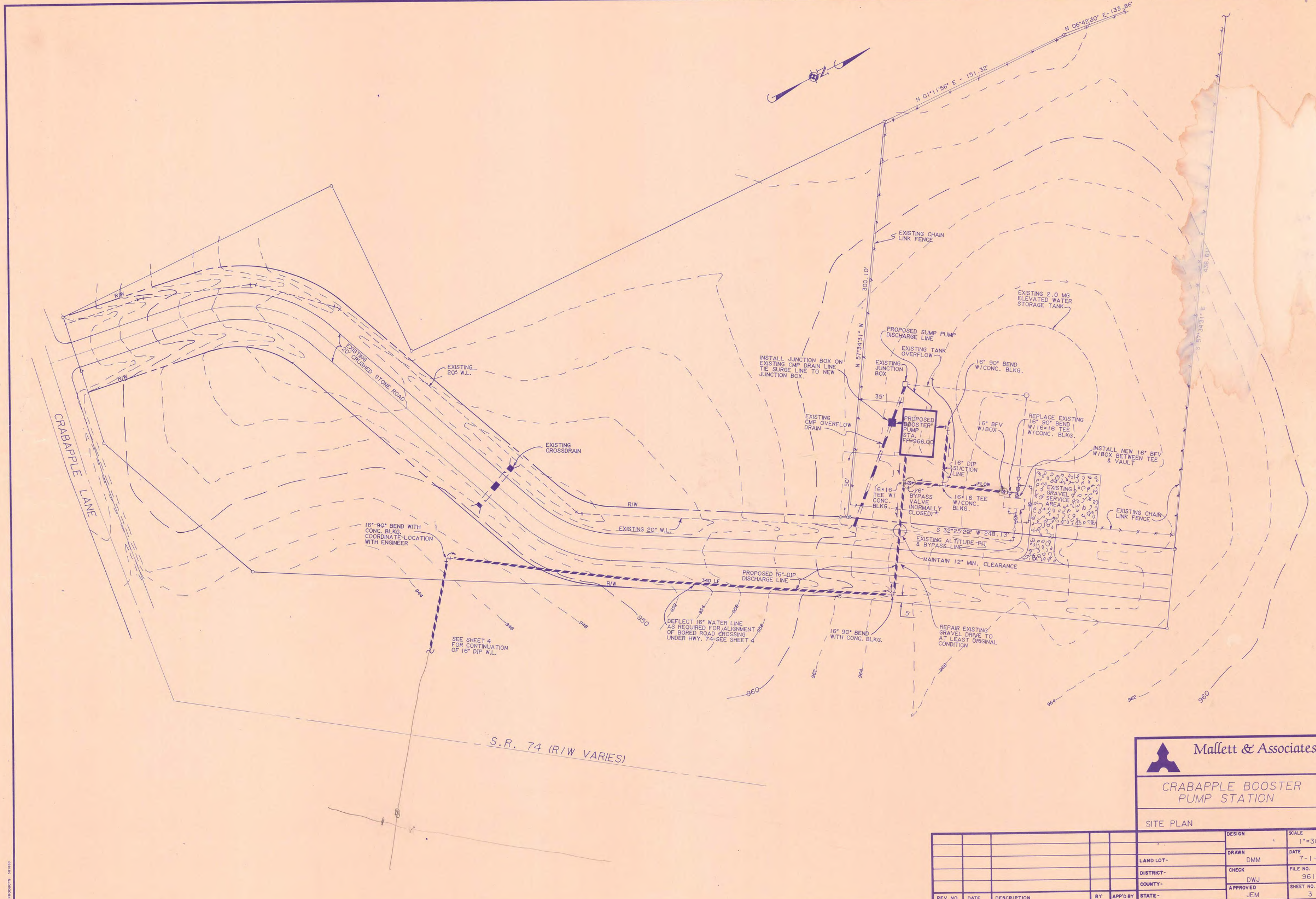
1" = 2000'

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CRABAPPLE BOOSTER PUMP STATION
 FOR
 FAYETTE COUNTY WATER SYSTEM

INDEX TO DRAWINGS

REV. NO.	DATE	DESCRIPTION	BY	APP'D	STATE	DESIGN	SCALE
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						DWJ	7-1-97
						JEM	FILE NO. 96164
						JEM	SHEET NO. 2

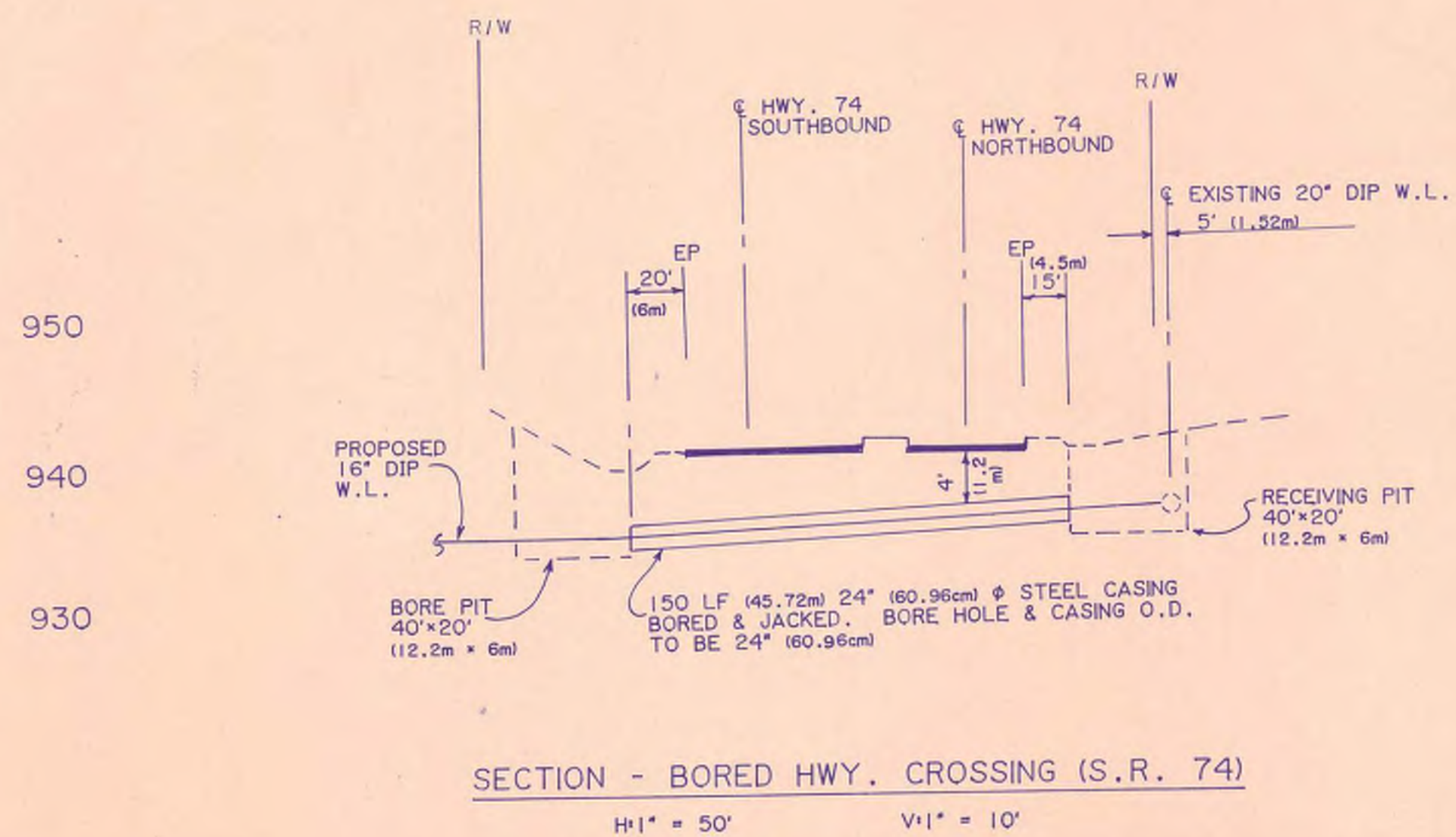
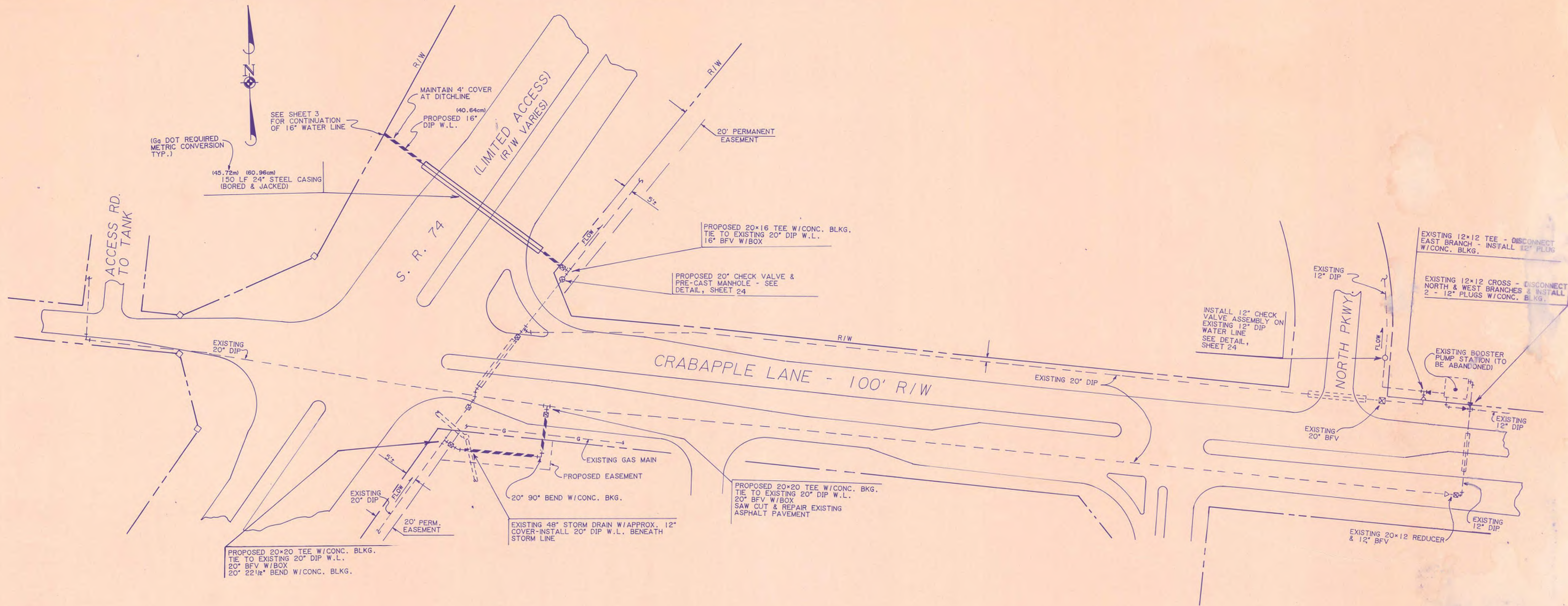


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CRABAPPLE BOOSTER PUMP STATION

SITE PLAN

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY	STATE	DESIGN	SCALE
						DMM	1"=30'
						DWJ	DATE 7-1-97
						JEM	FILE NO. 96164
							SHEET NO. 3

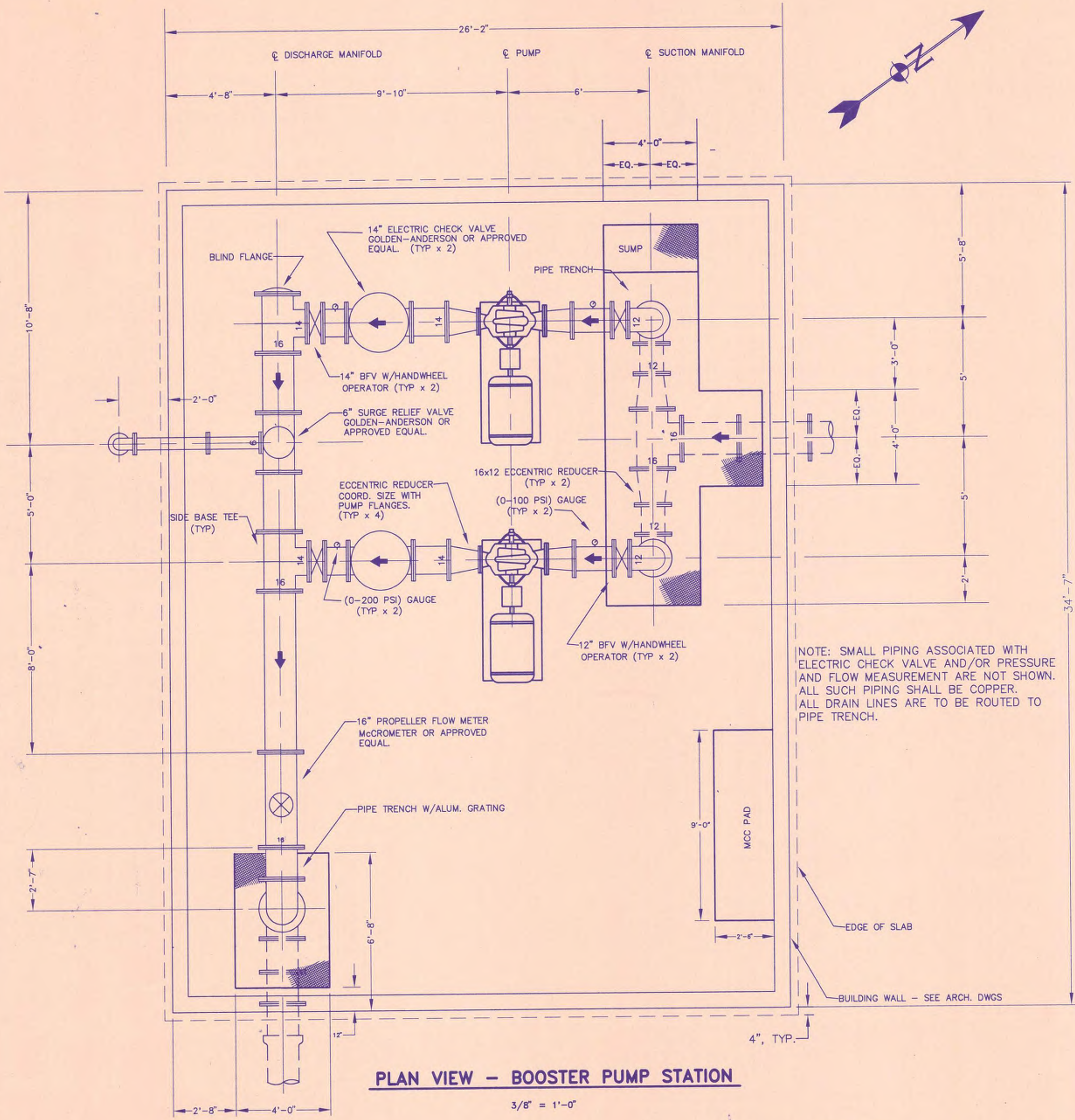
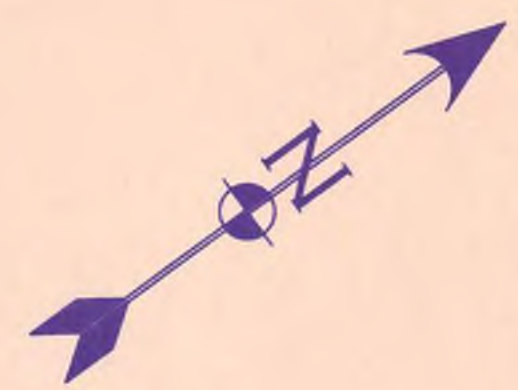


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CRABAPPLE BOOSTER PUMP STATION

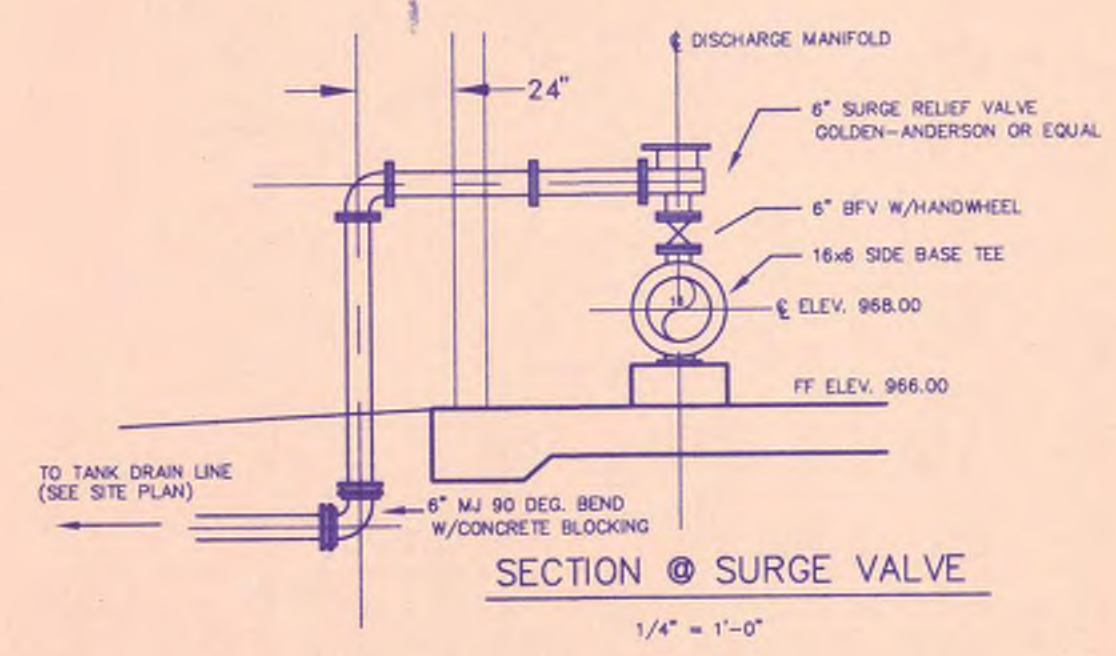
HIGHWAY CROSSING & PIPING MODIFICATIONS

DESIGN	SCALE				
DRAWN	1" = 50'				
CHECK	DATE				
APPROVED	7-1-97				
LAND LOT-	FILE NO.				
DISTRICT-	96164				
COUNTY-	SHEET NO.				
STATE-	4				
REV. NO.	DATE	DESCRIPTION	BY	APP'D BY	STATE-

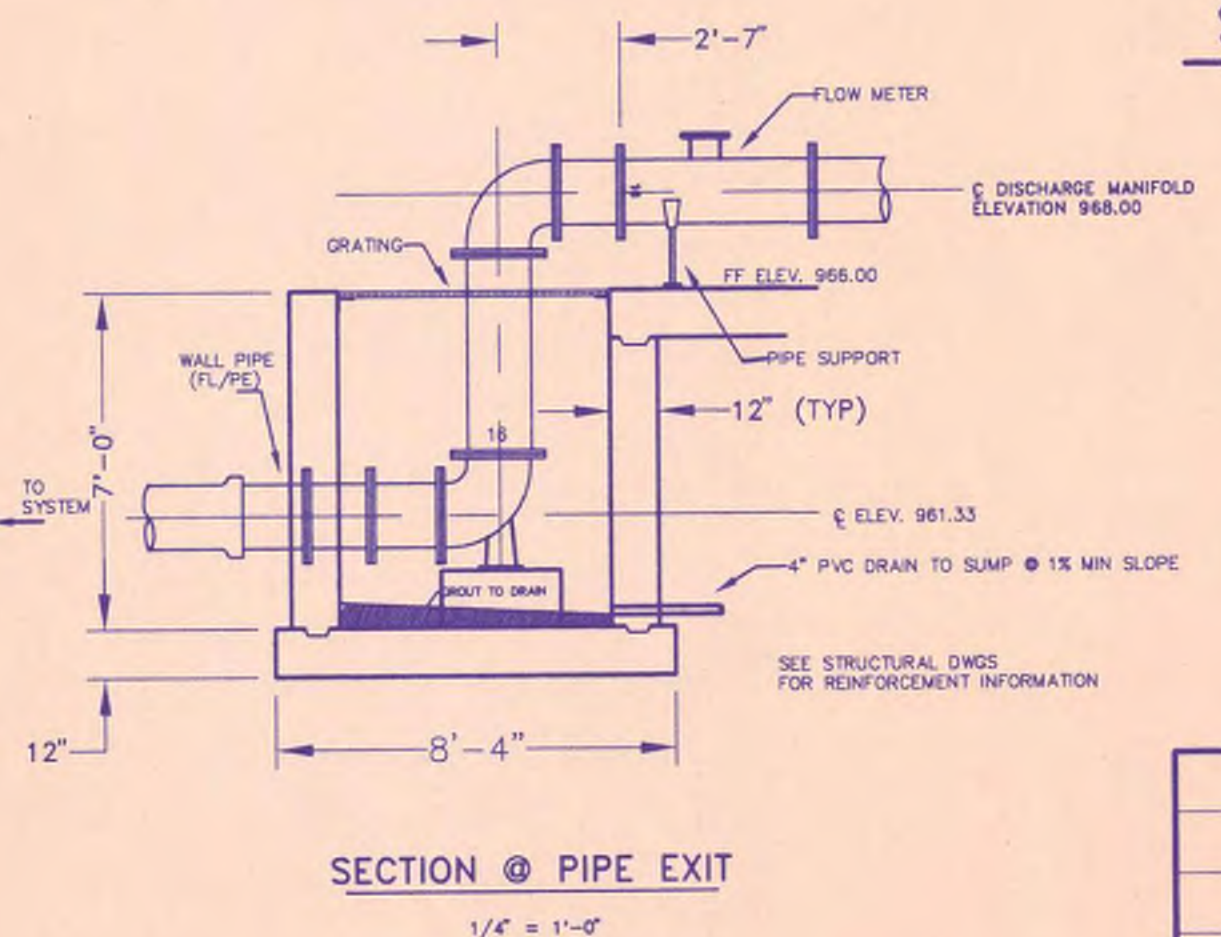


PLAN VIEW - BOOSTER PUMP STATION
3/8" = 1'-0"

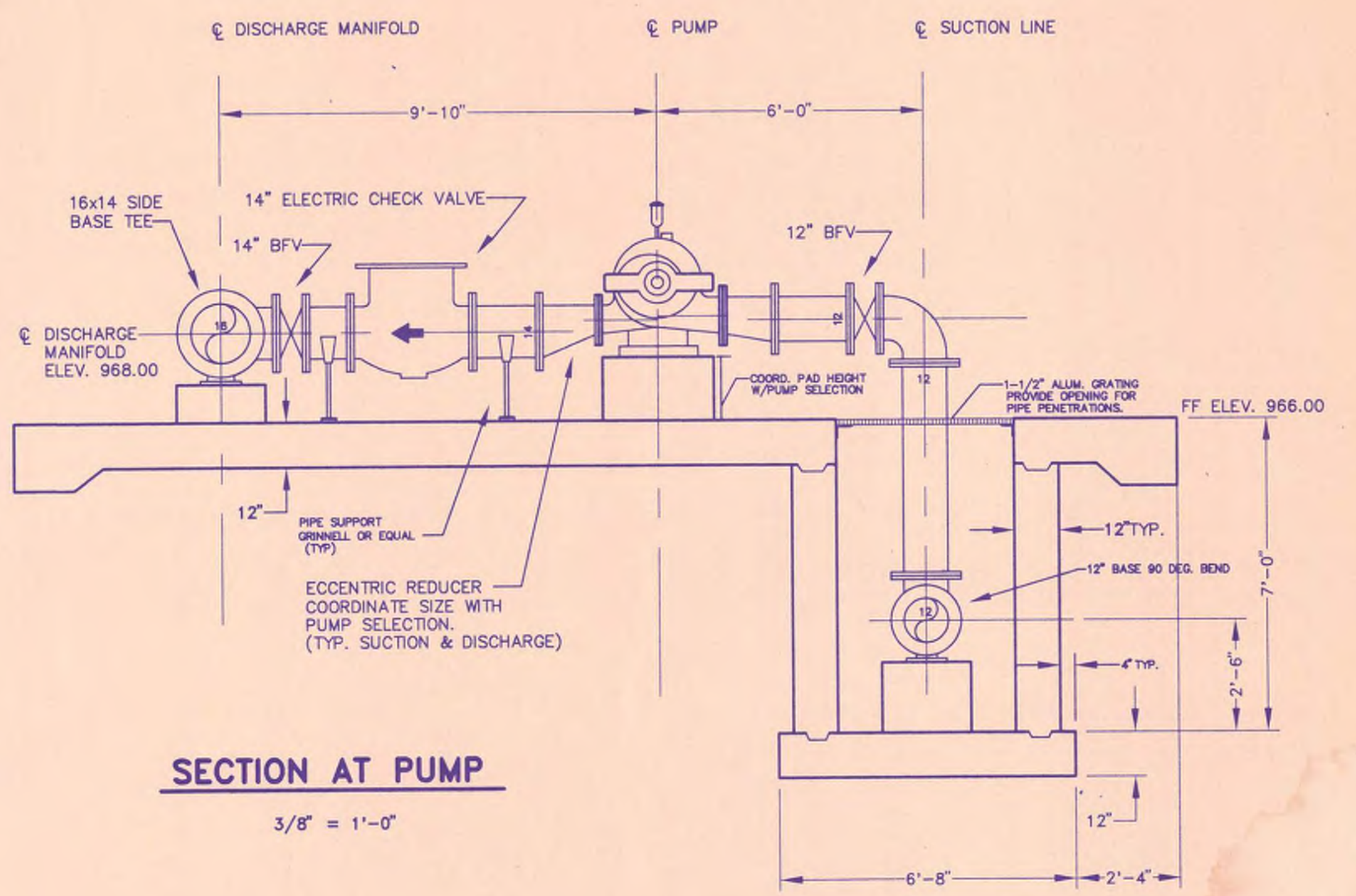
NOTE: SMALL PIPING ASSOCIATED WITH ELECTRIC CHECK VALVE AND/OR PRESSURE AND FLOW MEASUREMENT ARE NOT SHOWN. ALL SUCH PIPING SHALL BE COPPER. ALL DRAIN LINES ARE TO BE ROUTED TO PIPE TRENCH.



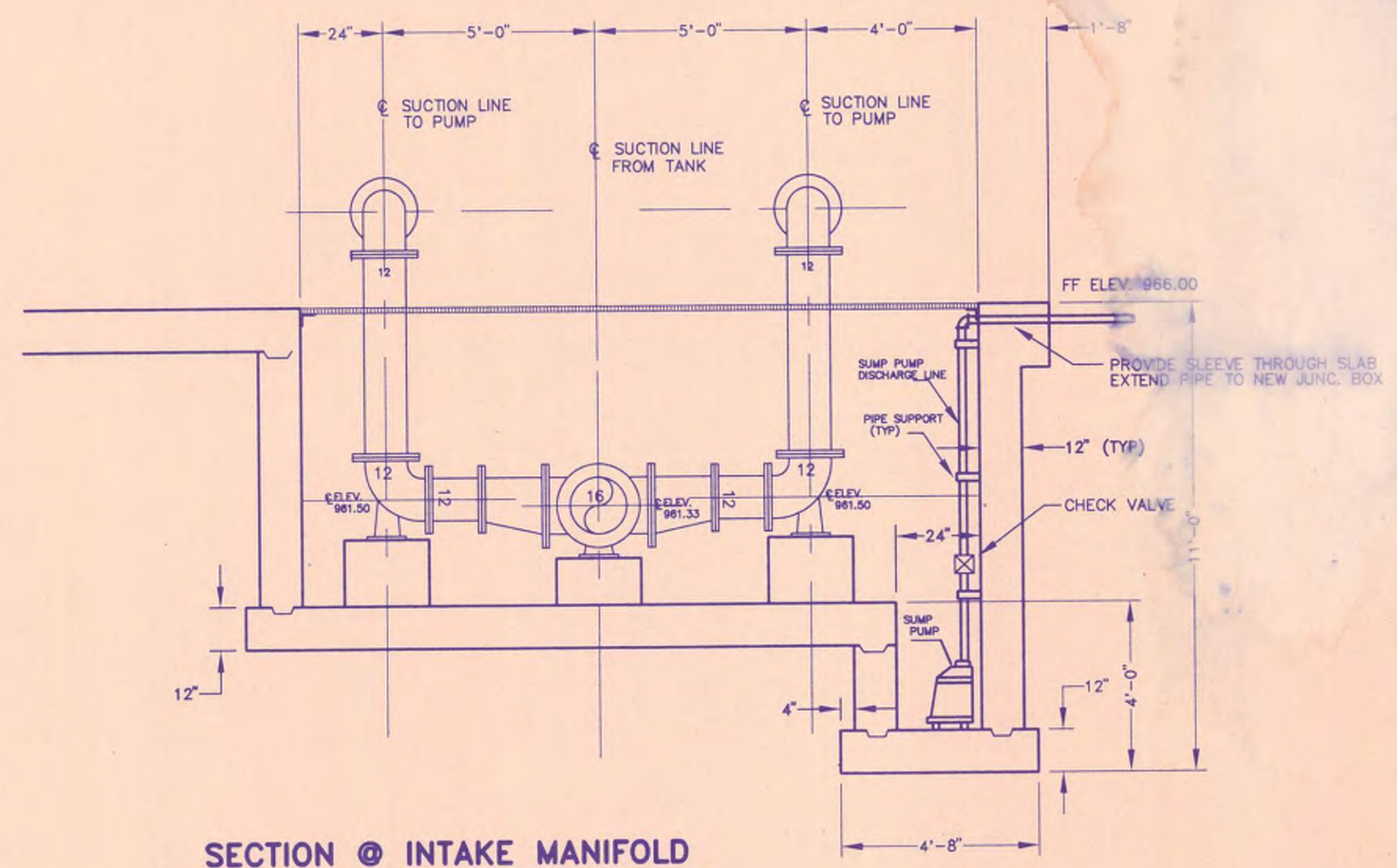
SECTION @ SURGE VALVE
1/4" = 1'-0"



SECTION @ PIPE EXIT
1/4" = 1'-0"



SECTION AT PUMP
3/8" = 1'-0"



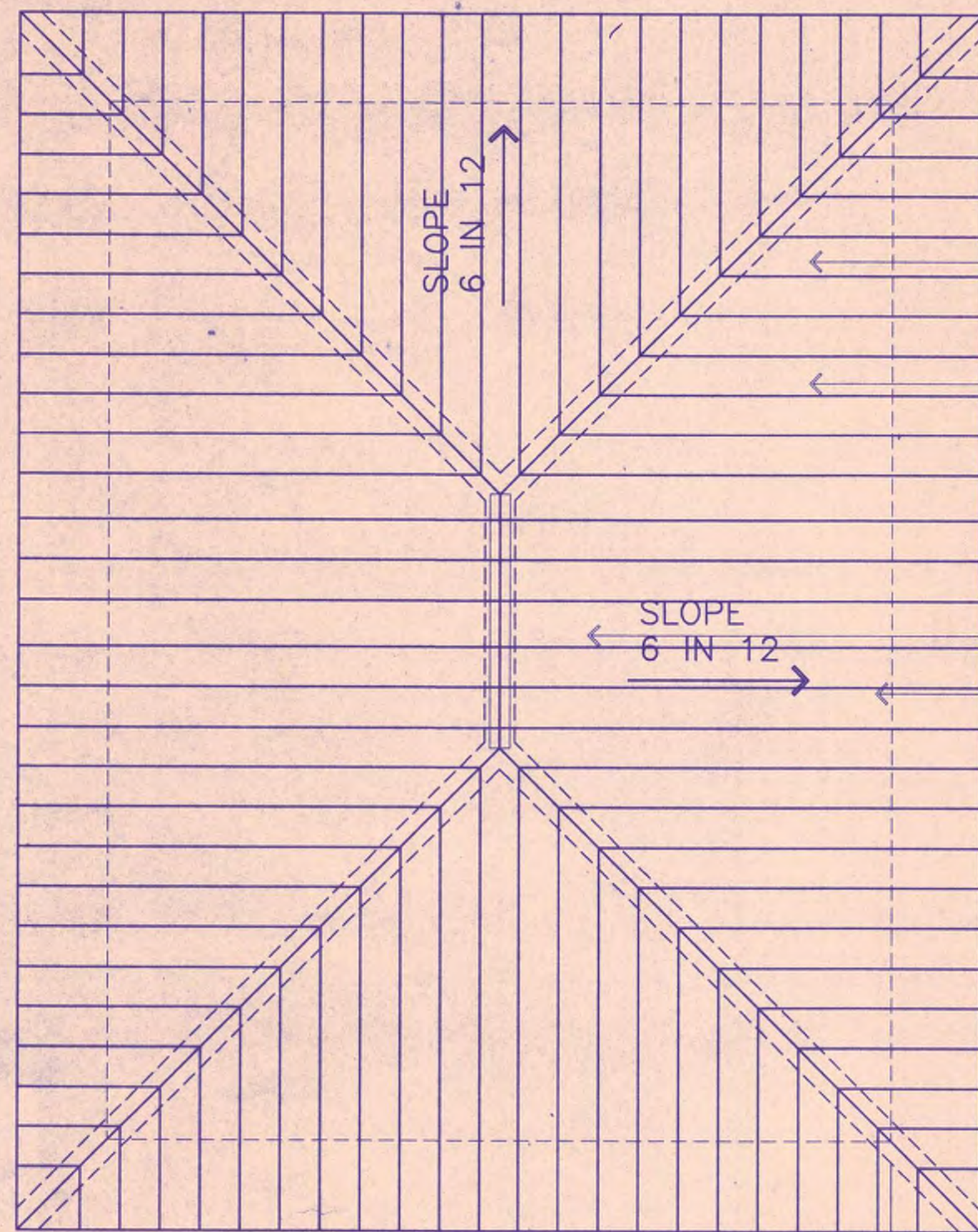
SECTION @ INTAKE MANIFOLD
3/8" = 1'-0"



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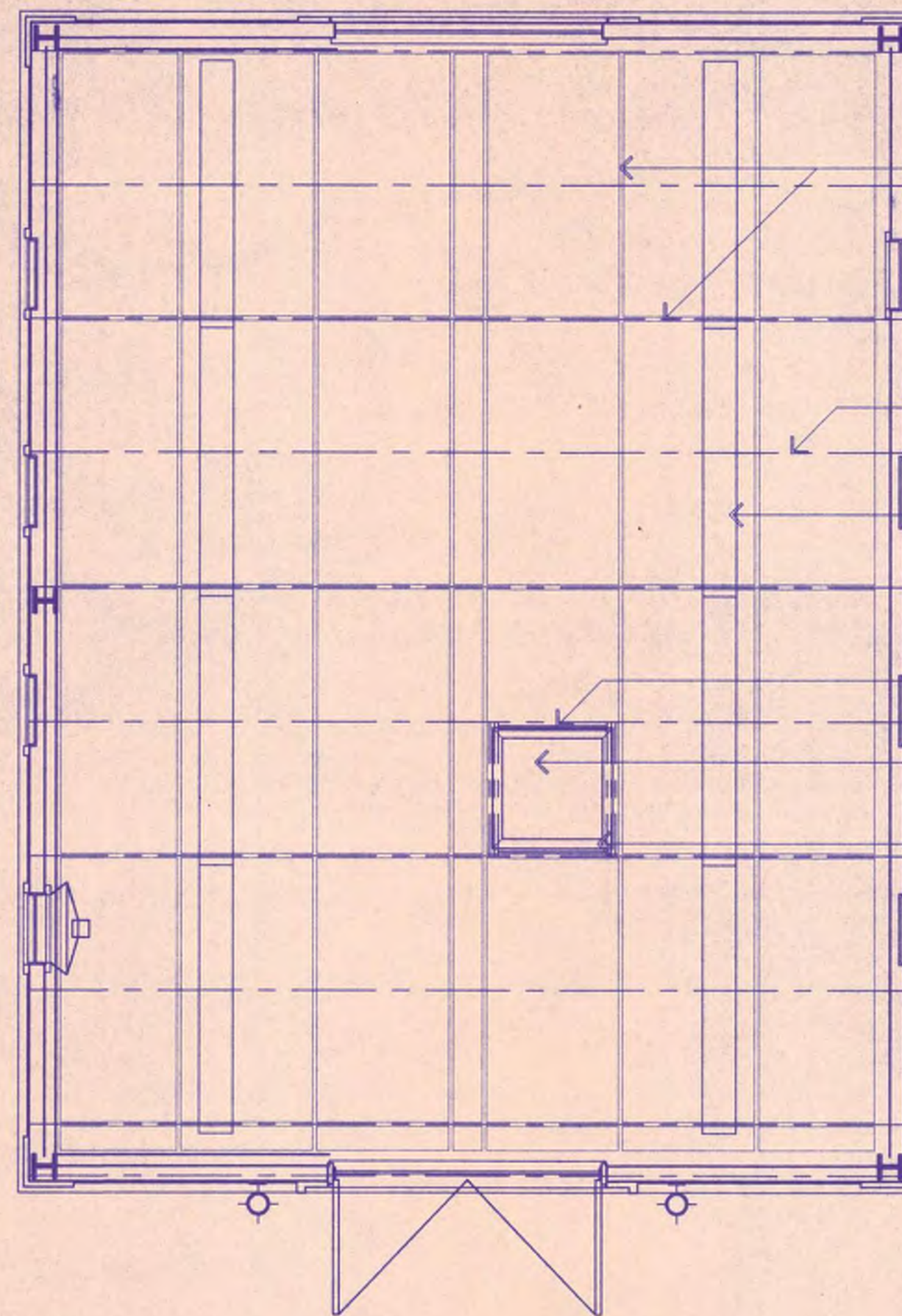
P-1		PLAN AND SECTION VIEWS	
DESIGN	DWJ	SCALE	AS NOTED
DRAWN	DWJ	DATE	7-1-97
DISTRICT	CHECK	FILE NO.	96164
COUNTY	APPROVED	SHEET NO.	5
REV. No.	DATE	DESCRIPTION	BY APP'D STATE



C ROOF PLAN
1/4" = 1'-0"

LINE OF FLASHING BELOW
22 GA. PREPAINTED STANDING SEAM METAL ROOF - 16" SEAM SPACING, COLOR TO MATCH BASE OF EXISTING ADJACENT STRUCTURE
FLASHED RIDGE CAP
LINE OF BUILDING BELOW SHOWN DASHED

3'-0"
O.H.
TYP.

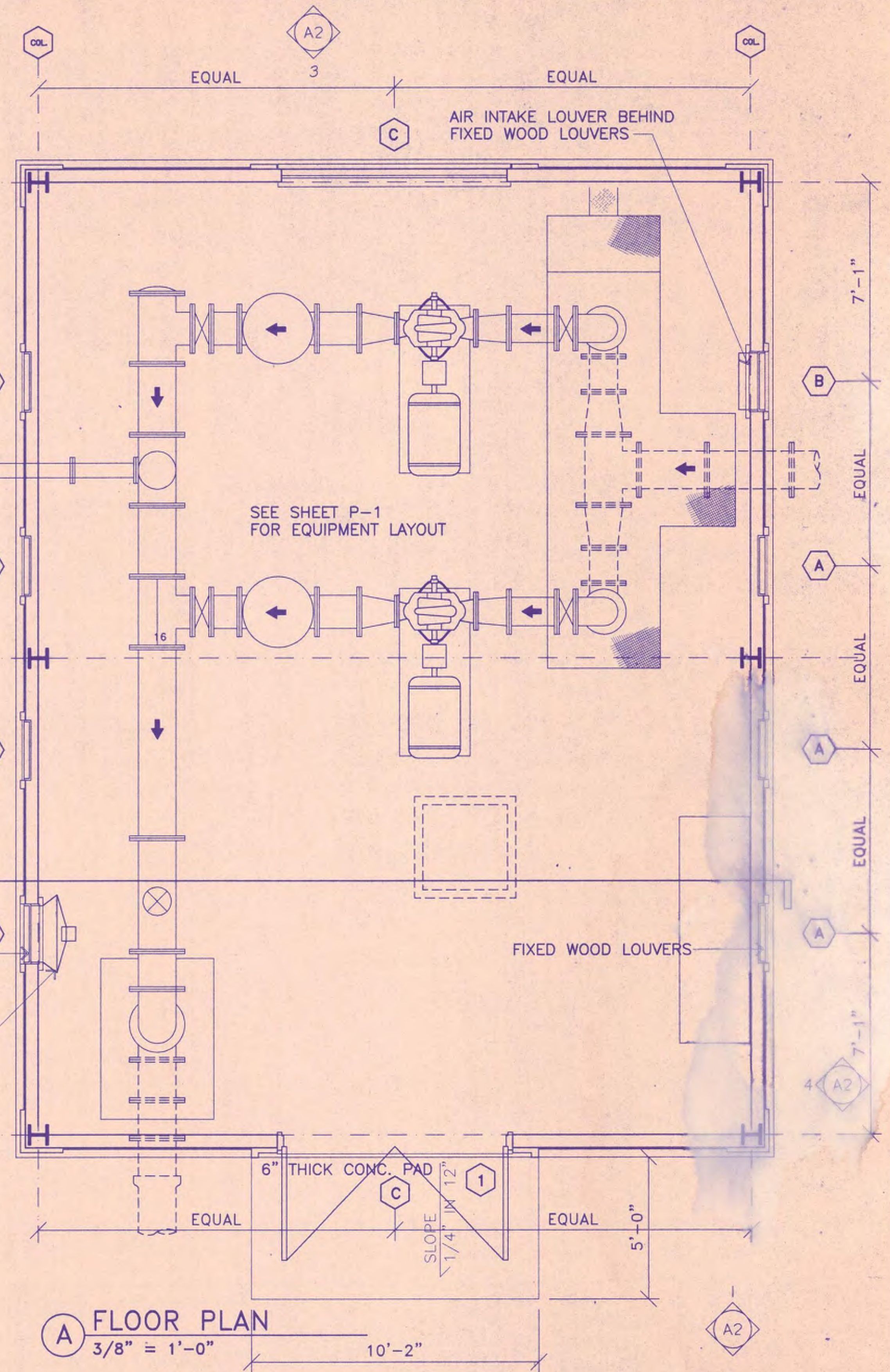


B REFLECTED CEILING PLAN
1/4" = 1'-0"

1/2" X 4' X 8' PLYWOOD CEILING WITH 1" X 2" WOOD BATTENS OVER SEAMS - PAINT
WOOD TRUSSES AT 48" O.C.
12" X 96" FLUORESCENTS CEILING MOUNTED
3- 2" X 10" 'S AT PERIMETER TYPICAL ALL SIDES
36" X 36" PLYWOOD ACCESS PANEL IN CEILING - PAINT
1" X 4" WOOD TRIM - PAINT

EXHAUSE FAN BEHIND FIXED WOOD LOUVERS

BUILD PLYWOOD BOX AROUND FAN AND ANGLE INTO AND ATTACH TO WOOD FRAME AT LOUVER. FAN IS LARGER THAN LOUVER AND MUST HAVE A SEALED BOX TO CONNECT LOUVER.



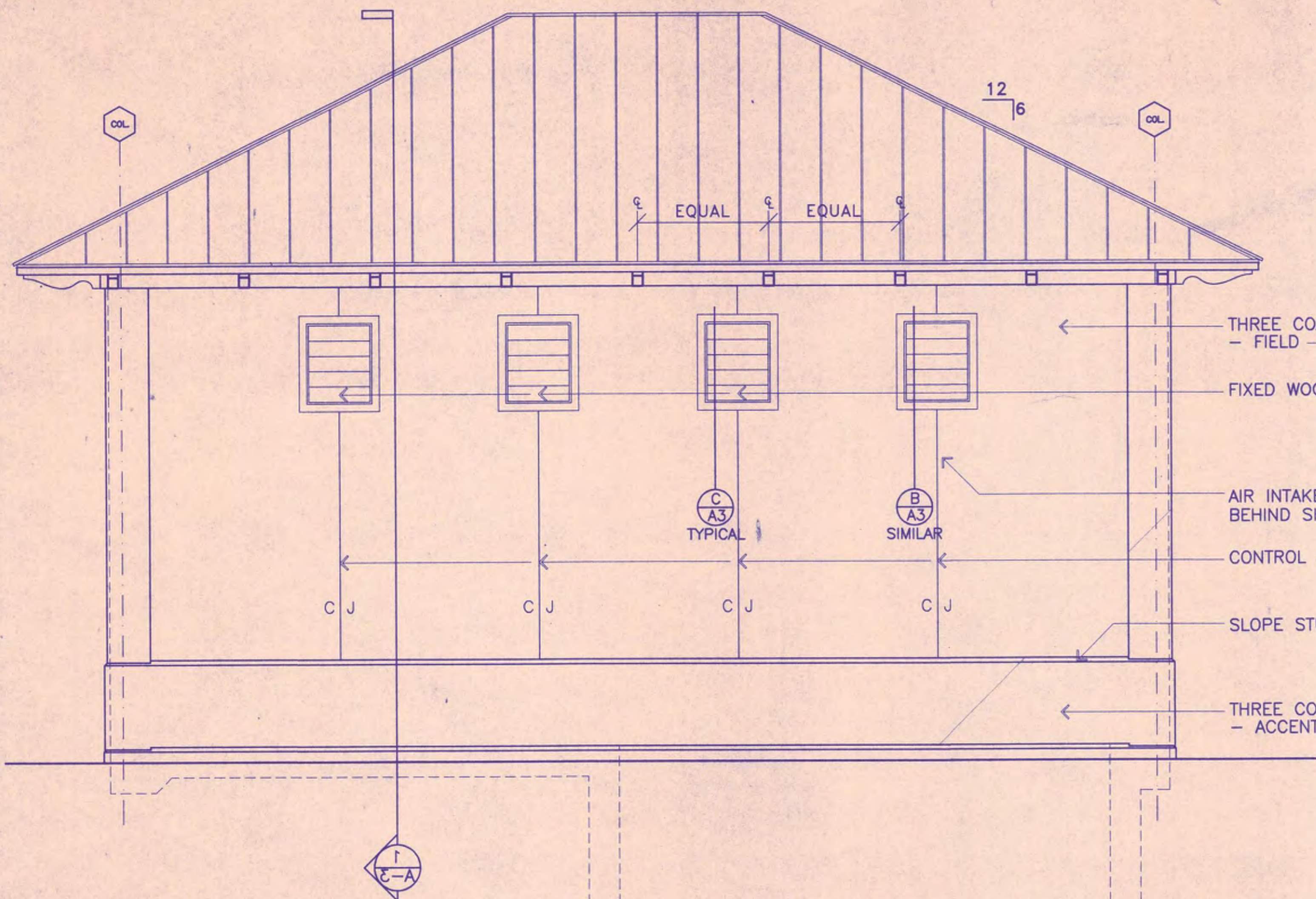
A FLOOR PLAN
3/8" = 1'-0"

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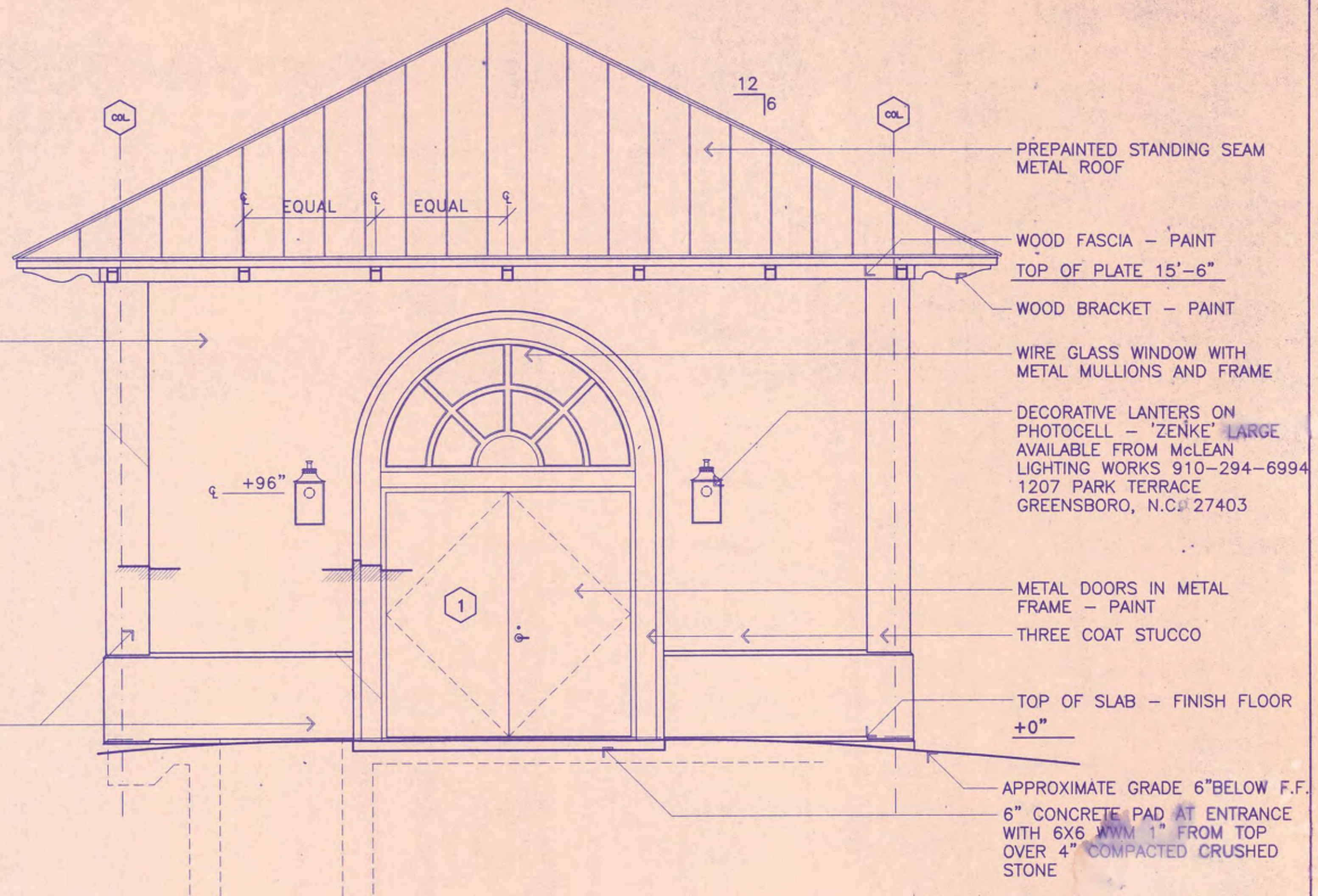
CRABAPPLE BOOSTER PUMP STATION
FOR
FAYETTE COUNTY WATER SYSTEM

A-1 FLOOR, ROOF & REFLECTED CEILING PLANS

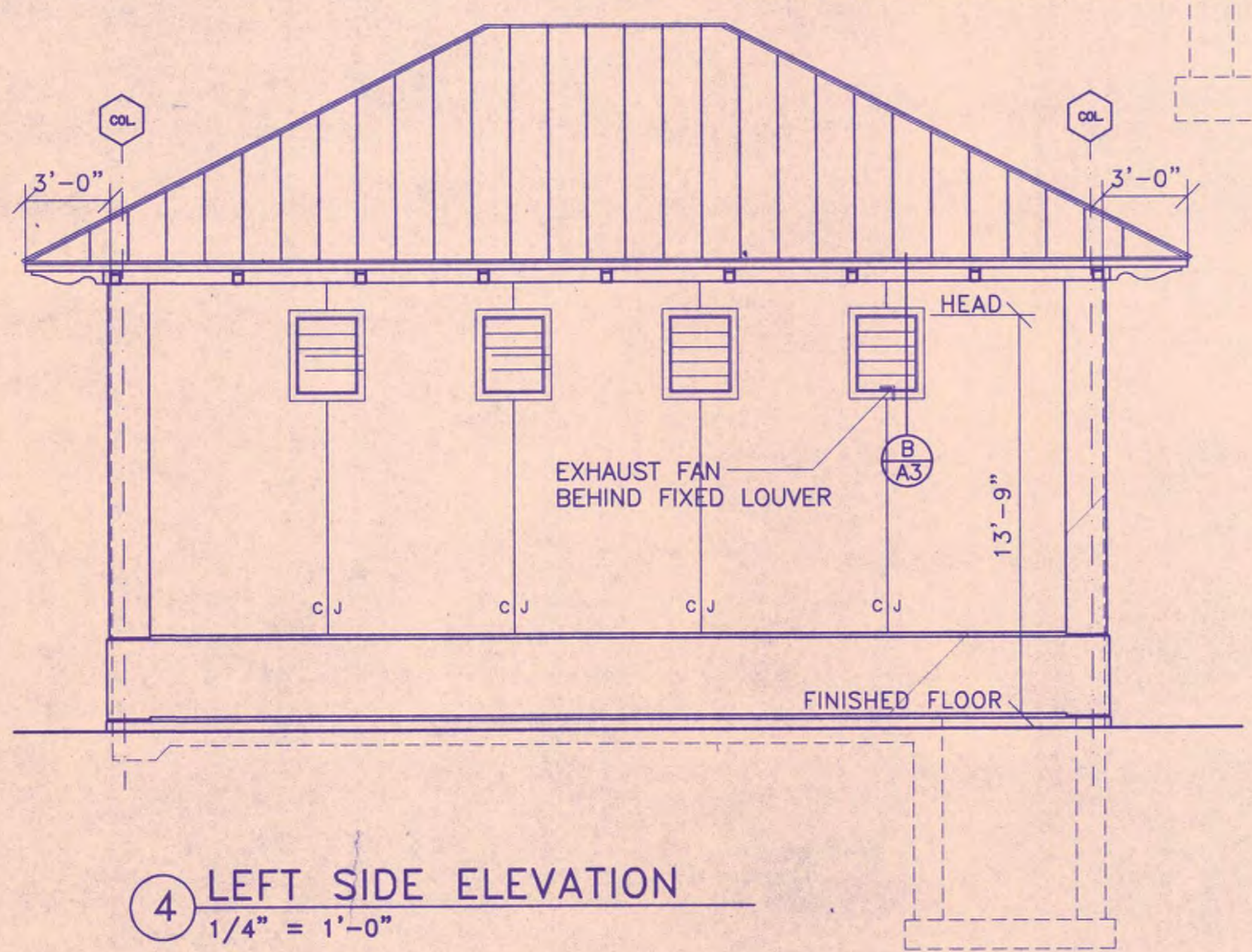
REV. NO	DATE	DESCRIPTION	BY	APP'D	STATE	DESIGN	SCALE
						CKS	AS SHOWN
						GCT	JULY 1, 1997
						DWJ	FILE NO. 96164
						JEM	SHEET NO. 6



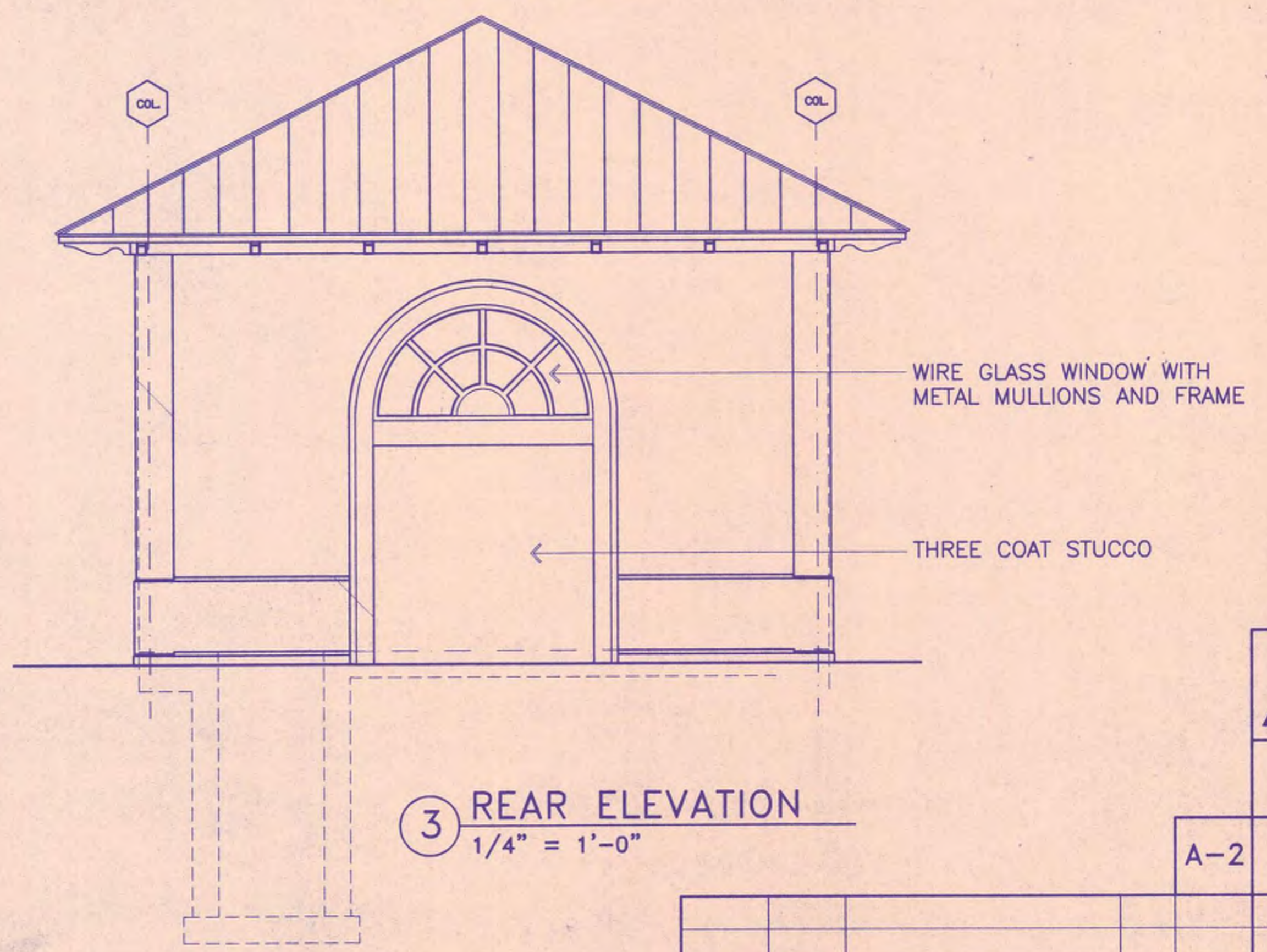
2 RIGHT SIDE ELEVATION
3/8" = 1'-0"



1 FRONT ELEVATION
3/8" = 1'-0"



4 LEFT SIDE ELEVATION
1/4" = 1'-0"



3 REAR ELEVATION
1/4" = 1'-0"

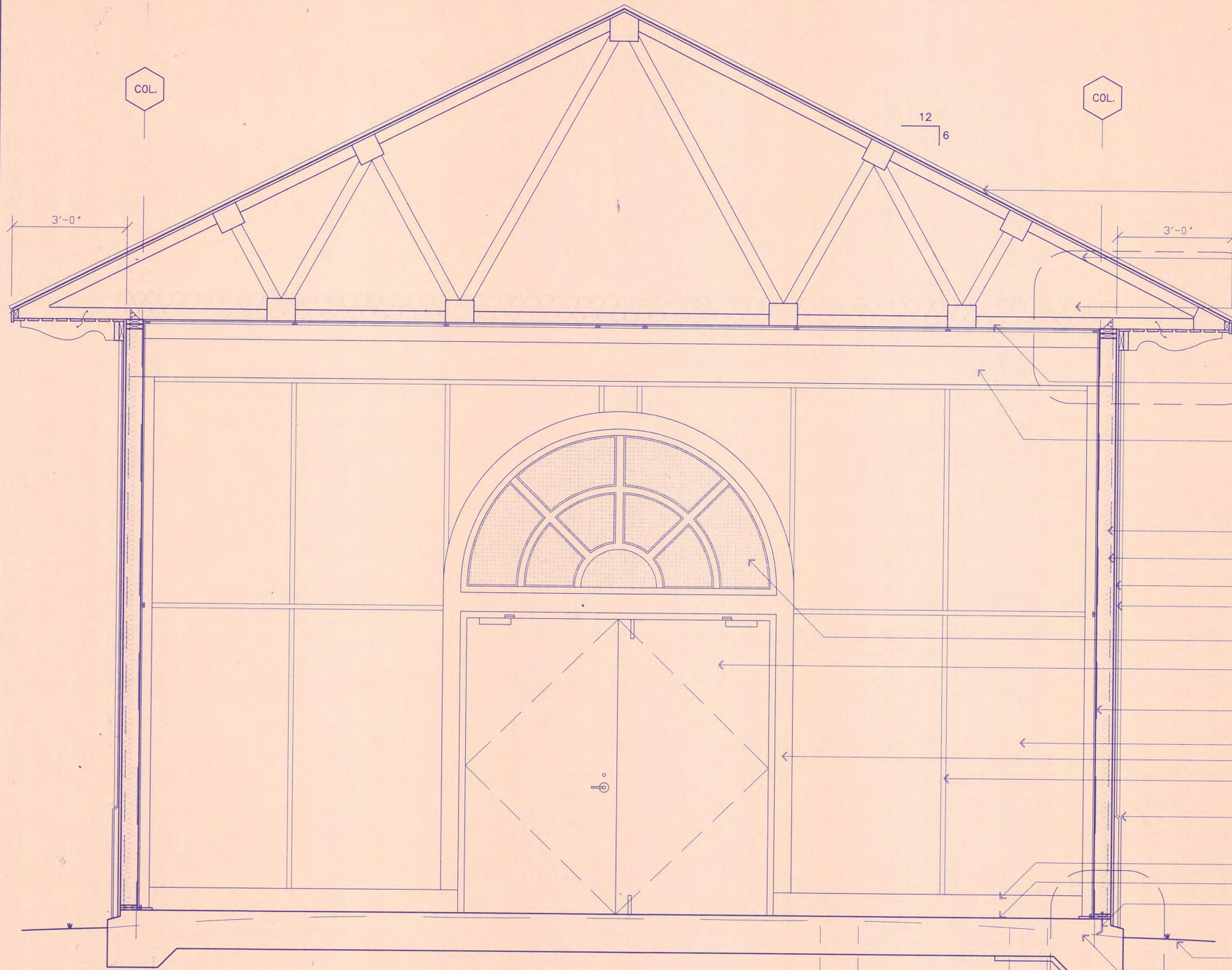
- PREPAINTED STANDING SEAM METAL ROOF
- WOOD FASCIA - PAINT
- TOP OF PLATE 15'-6"
- WOOD BRACKET - PAINT
- WIRE GLASS WINDOW WITH METAL MULLIONS AND FRAME
- DECORATIVE LANTERS ON PHOTOCELL - 'ZENKE' LARGE AVAILABLE FROM McLEAN LIGHTING WORKS 910-294-6994 1207 PARK TERRACE GREENSBORO, N.C. 27403
- METAL DOORS IN METAL FRAME - PAINT
- THREE COAT STUCCO
- TOP OF SLAB - FINISH FLOOR +0"
- APPROXIMATE GRADE 6" BELOW F.F. 6" CONCRETE PAD AT ENTRANCE WITH 6X6 WWM 1" FROM TOP OVER 4" COMPACTED CRUSHED STONE

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CRABAPPLE BOOSTER PUMP STATION
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A-2		EXTERIOR ELEVATIONS	
DESIGN	CKS	SCALE	3/8" = 1'-0"
DRAWN	GCT	DATE	JULY 1, 1997
CHECK	DWJ	FILE NO.	96164
APPROVED	JEM	SHEET NO.	7

REV. NO	DATE	DESCRIPTION	BY	APP'D	STATE



- PREPAINTED STANDING SEAM METAL ROOF 22 GA. OVER 30# FELT OVER 3/4" T. & G. PLYWOOD DECKING. CONTRACTOR TO PROVIDE METAL SAMPLE TO ENGINEER FOR APPROVAL, COLOR TO MATCH BASE OF ADJACENT EXISTING STRUCTURE
- ROOF TRUSSES - CONTRACTOR TO SUPPLY ROOF TRUSS DESIGN, STAMPED BY GEORGIA REGISTERED ENGINEER TO ENGINEER FOR APPROVAL
- R-30 BATT INSULATION
- 1/2" PLYWOOD CEILING WITH 1" X 2" BATTENS AT SEAMS
- NOTE: CAULK ALL WOOD TO STUCCO JOINTS
- TOP OF BEAM AT 15'-6" - SEE STRUCTURAL SHEETS
- NOTE: ALL WOOD TO BE PREP BY SANDING, FILLING ALL IMPERFECTIONS, PRIMING AND PAINTING WITH TWO COATS EXTERIOR ACRYLIC.
- 2" X 6" WOOD STUDS AT 16" O.C.
- R-19 BATT INSULATION
- 3/4" T. & G. PLYWOOD SHEATHING
- THREE COAT STUCCO OVER LATH OVER 30# FELT
- WIRE GLASS WINDOW WITH METAL MULLIONS AND FRAME
- METAL DOORS IN METAL FRAME - PAINTED WITH CLOSER AND SLIDE BOLTS
- CENTERLINE OF COLUMN - SEE STRUCTURAL DRAWINGS
- 3/4" PLYWOOD - PAINT
- 1" X 6" WOOD TRIM - PAINT
- 1" X 2" WOOD BATTENS AT ALL PLYWOOD SEAMS - WALLS AND CEILING - PAINT
- SLOPE MINIMUM 15 ALL STUCCO HORIZONTALS
- 2" X 8" P.T. BASE BOARD - PAINT
- SEAL CONCRETE FLOOR
- 2" X 6" P.T. PLATE WITH 3/8" ANCHOR BOLTS AT 24" O.C.
- APPROXIMATE GRADE
- GRADE BEYOND
- REINFORCED CONCRETE SLAB & FOOTING - SEE STRUCTURAL DRAWINGS

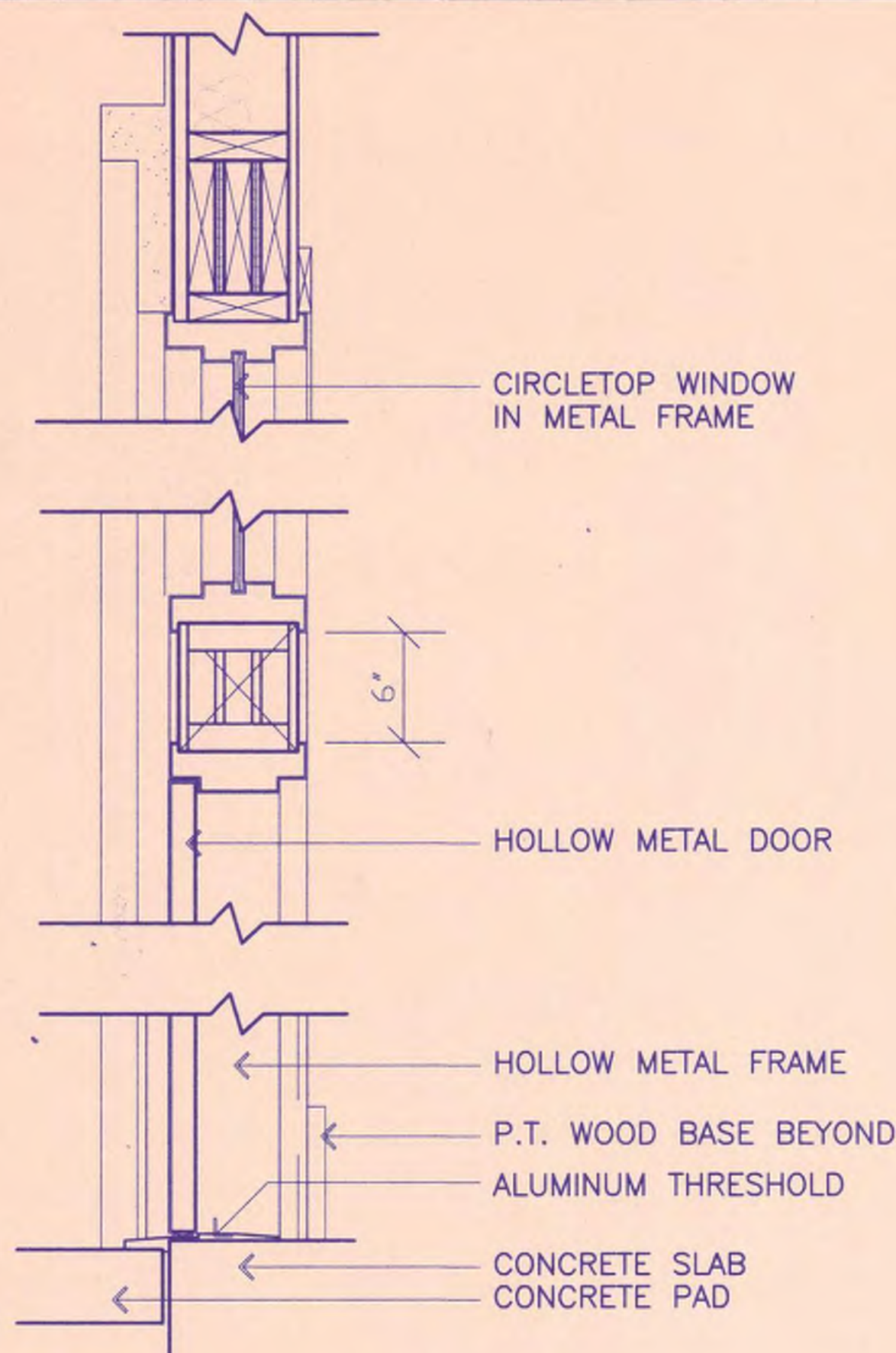
1 BUILDING SECTION
3/4" = 1'-0"

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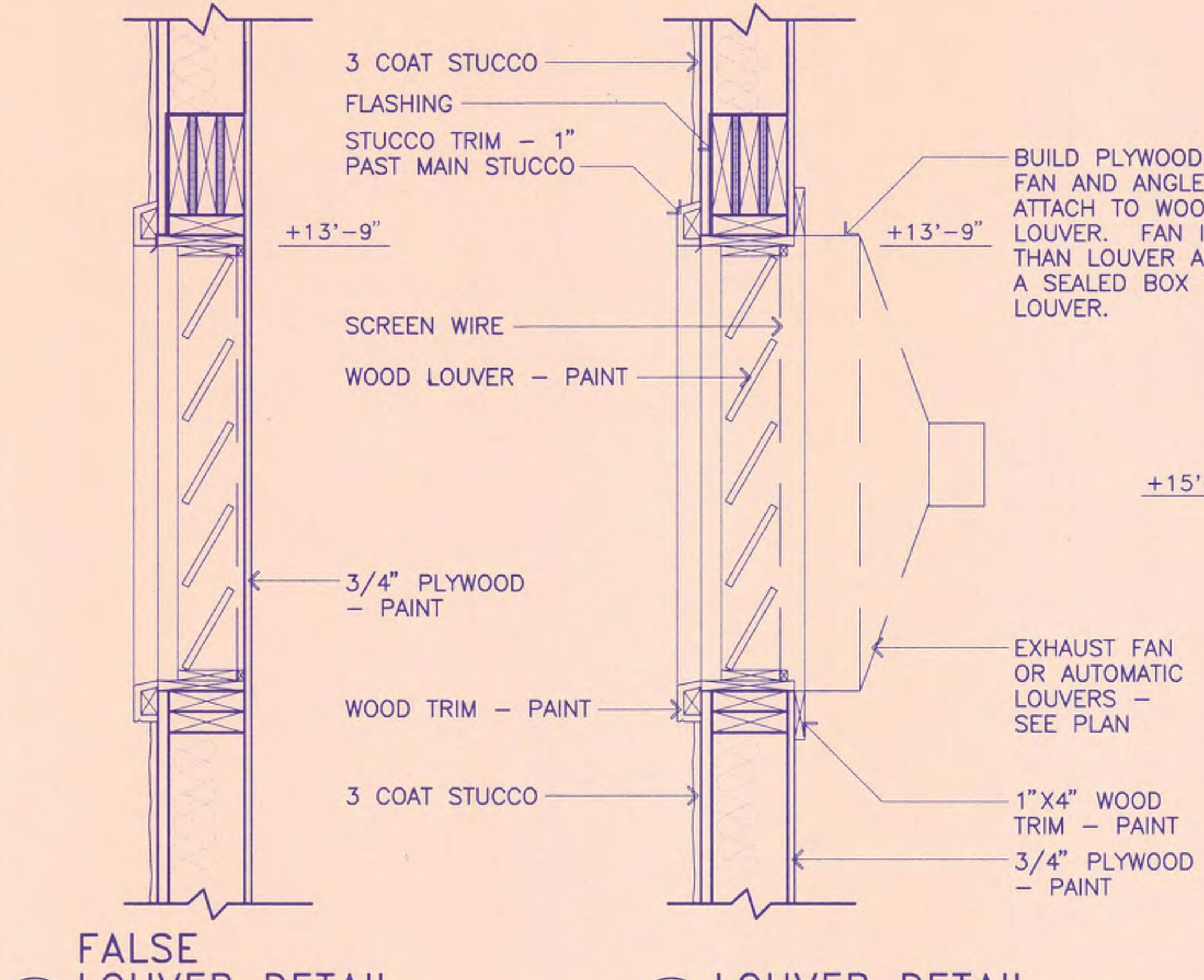
CRABAPPLE BOOSTER PUMP STATION
 FOR
 FAYETTE COUNTY WATER SYSTEM

A-3 BUILDING SECTION

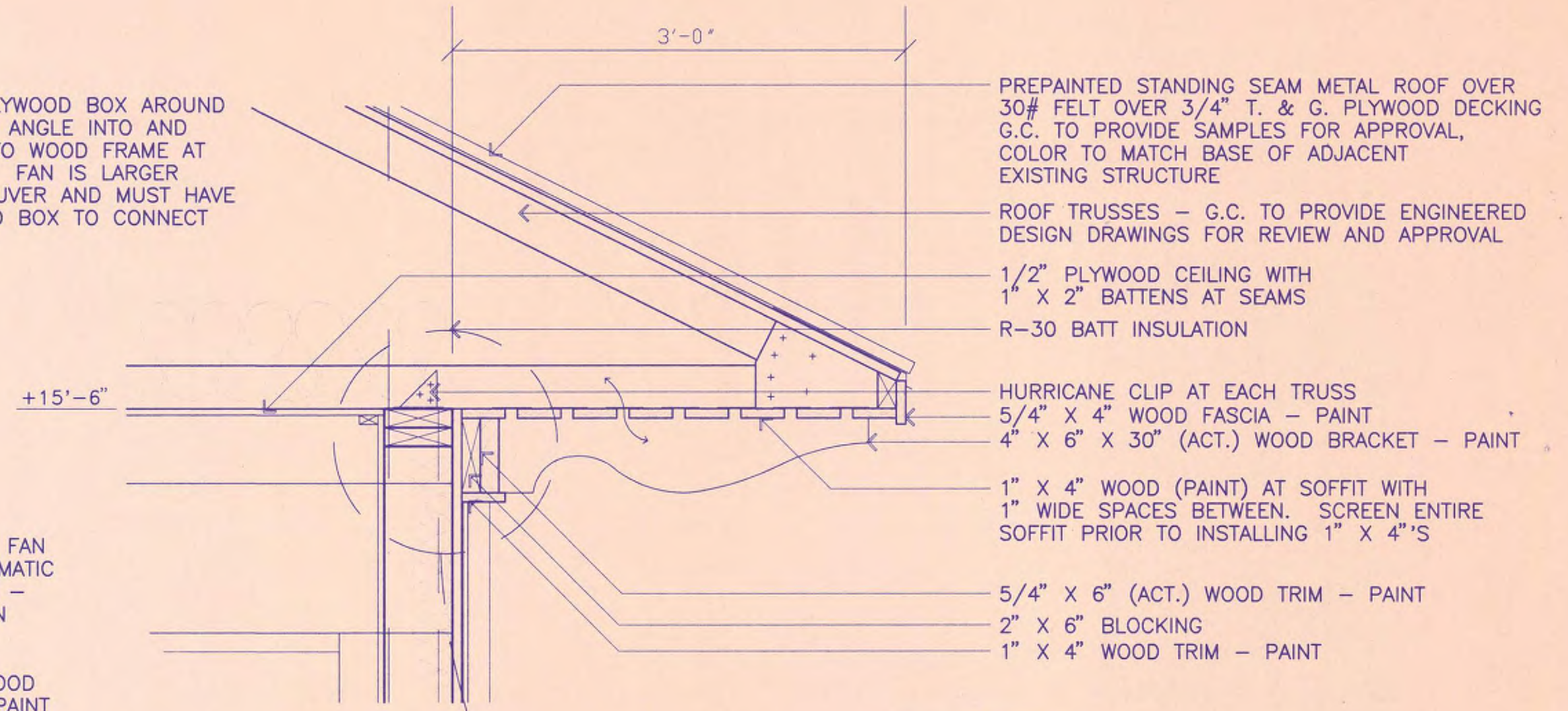
DESIGN	CKS	SCALE	3/4" = 1'-0"
DRAWN	GCT	DATE	7-1-97
DISTRICT	CHECK	FILE NO.	96164
COUNTY	APPROVED	SHEET NO.	8
REV. NO.	DATE	DESCRIPTION	BY APP'D STATE



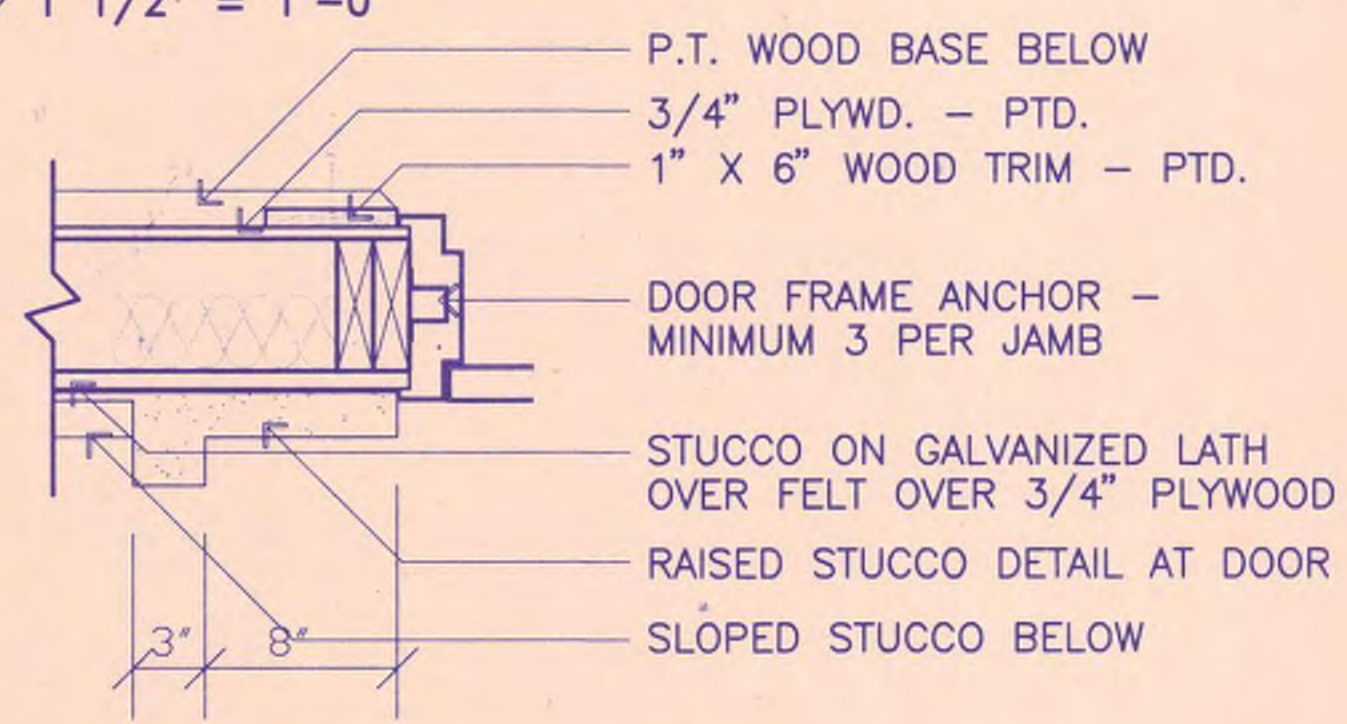
D HEAD / SILL DETAIL
1 1/2" = 1'-0"



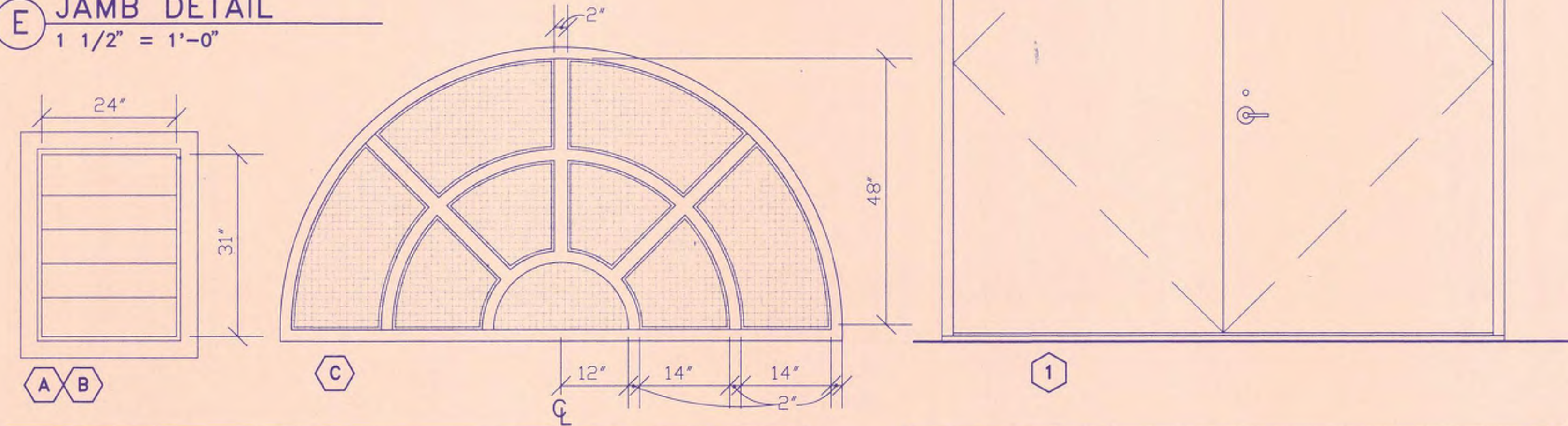
C FALSE LOUVER DETAIL 1 1/2" = 1'-0"
B LOUVER DETAIL 1 1/2" = 1'-0"



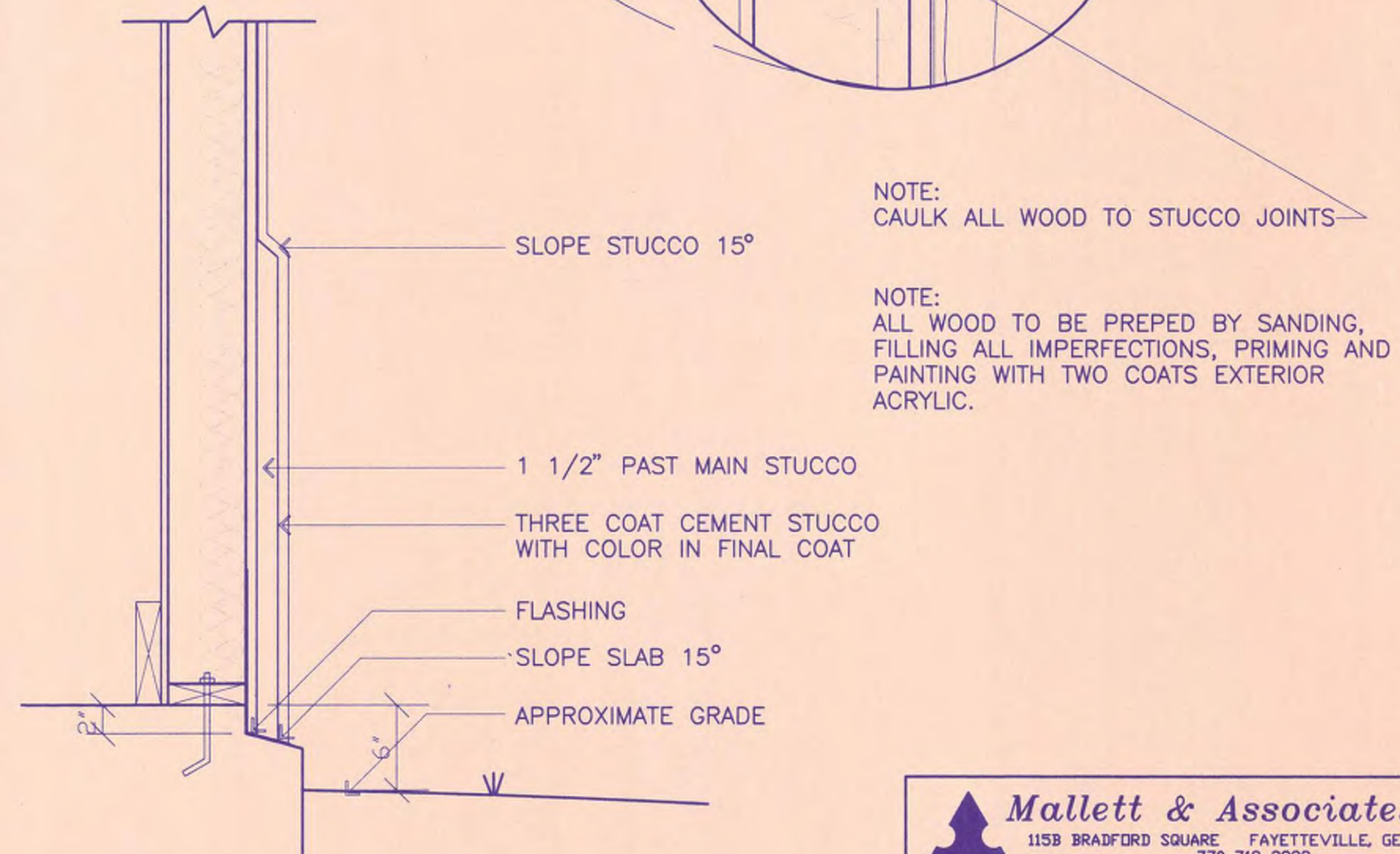
A SOFFIT DETAIL
1 1/2" = 1'-0"



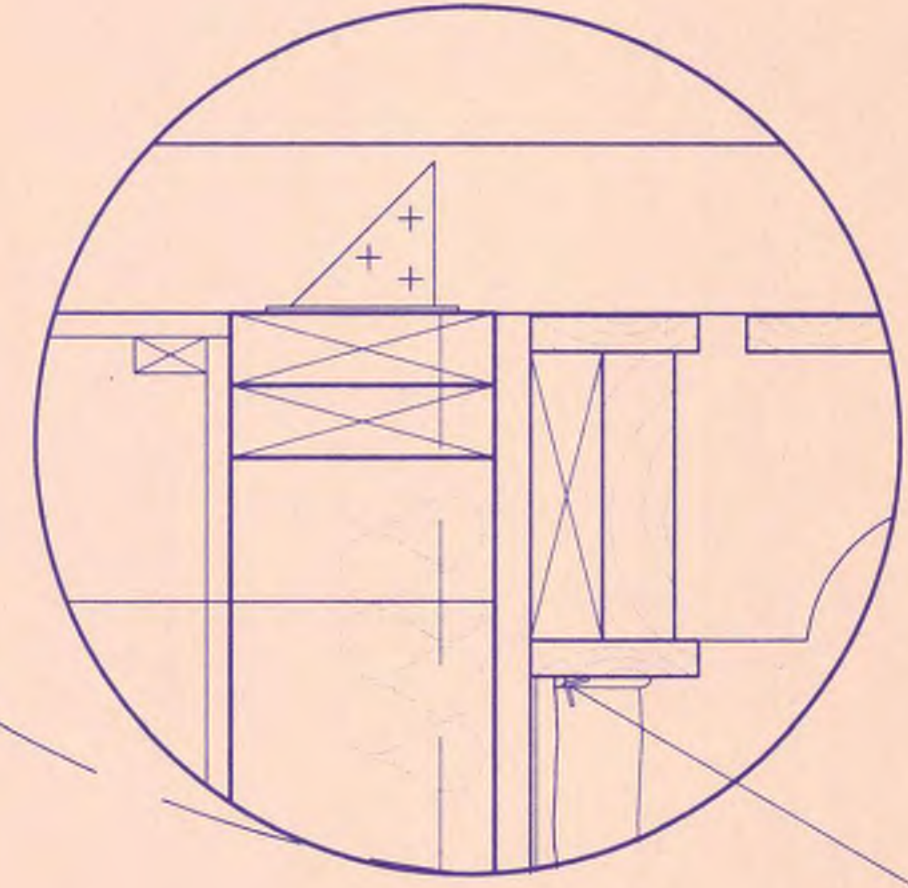
E JAMB DETAIL
1 1/2" = 1'-0"



DOOR SCHEDULE				
TYPE	SIZE	FRAME	MATERIAL	NOTE
1	PAIR 48" X 96"	H. MTL.	H. MTL.	DEADBOLT & PASSAGE SET, CLOSER WITH HOLD OPEN, SLIDE BOLTS, & THRESHOLD



F DETAIL AT EDGE OF SLAB
1 1/2" = 1'-0"



NOTE:
CAULK ALL WOOD TO STUCCO JOINTS

NOTE:
ALL WOOD TO BE PREP BY SANDING, FILLING ALL IMPERFECTIONS, PRIMING AND PAINTING WITH TWO COATS EXTERIOR ACRYLIC.

WINDOW / LOUVER SCHEDULE					
TYPE	SIZE	FRAME	OPERATION	MATERIAL	NOTE
A	24" X 31"	WOOD	LOUVER	WOOD	POWER EXHAUST FAN UNIT AND POWER LOUVERS PER LOCATION ON PLAN
B	24" X 31"	WOOD	LOUVER	WOOD	INTERIOR OF LOUVERS TO BE COVERED IN 1/2" PLYWOOD
C	48" DIA. CIRCLETOP	H. MTL.	FIXED	H. MTL./GLASS	METAL SECURITY MESH IN GLASS.

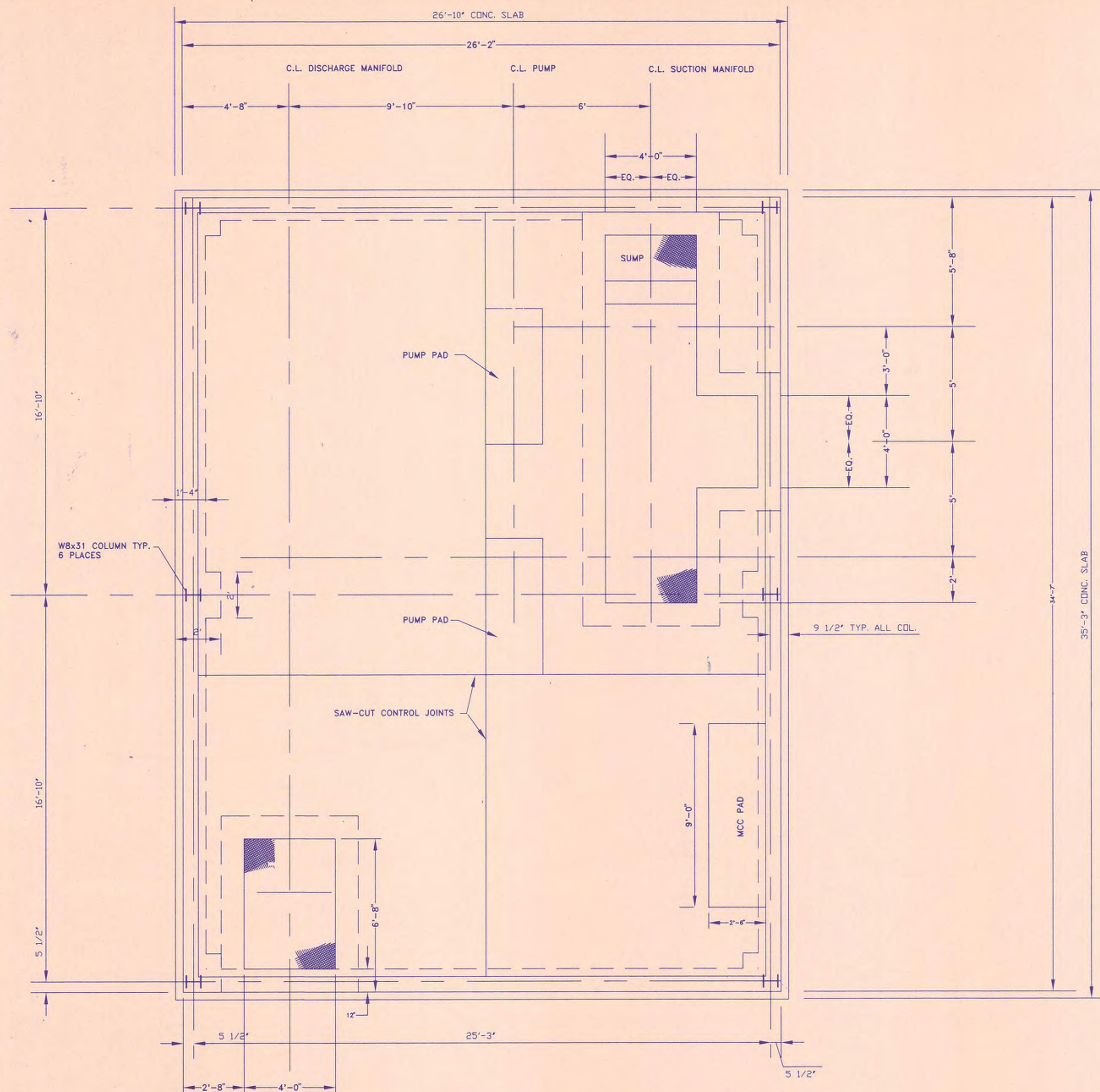
G.C. TO PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO MANUFACTURING.

Mallett & Associates, Inc.
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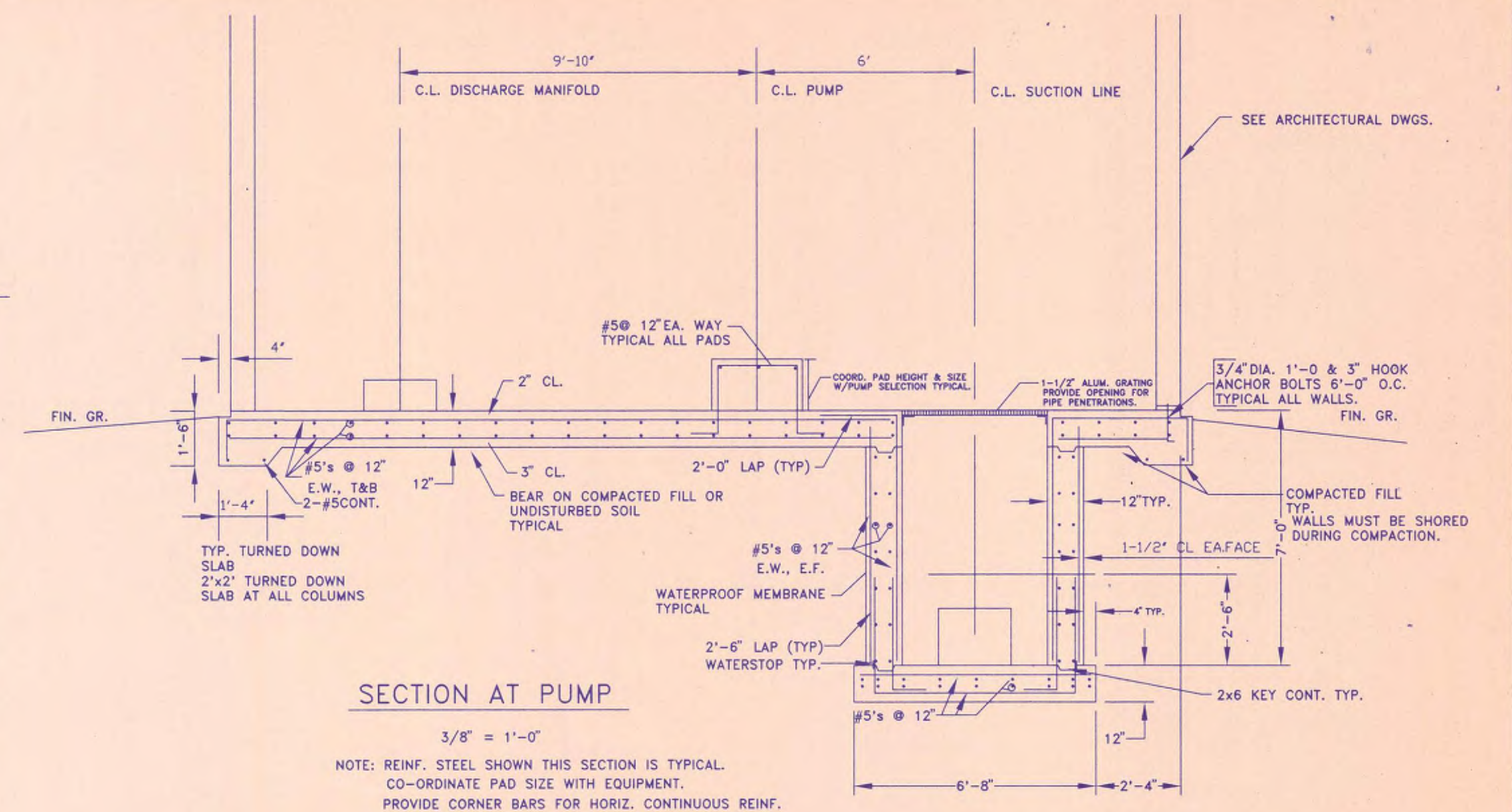
A-4 DETAILS		
DESIGN	CKS	SCALE AS SHOWN
DRAWN	GCT	DATE 7-1-97
CHECK	DWJ	FILE NO. 96164
APPROVED	JEM	SHEET NO. 9

REV. NO	DATE	DESCRIPTION	BY	APP'D



FOUNDATION AND FLOOR PLAN - BOOSTER PUMP STATION

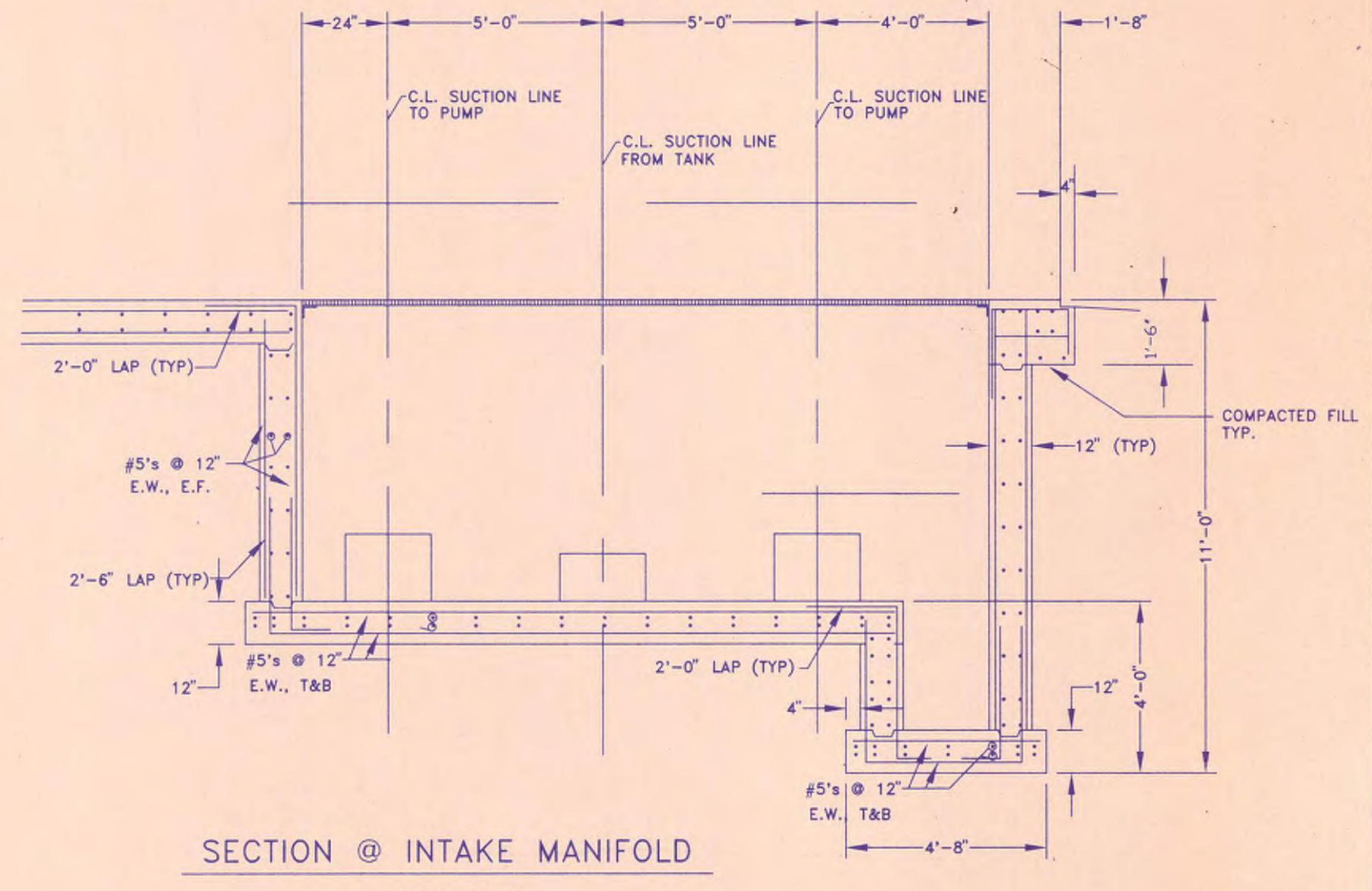
3/8" = 1'-0"



SECTION AT PUMP

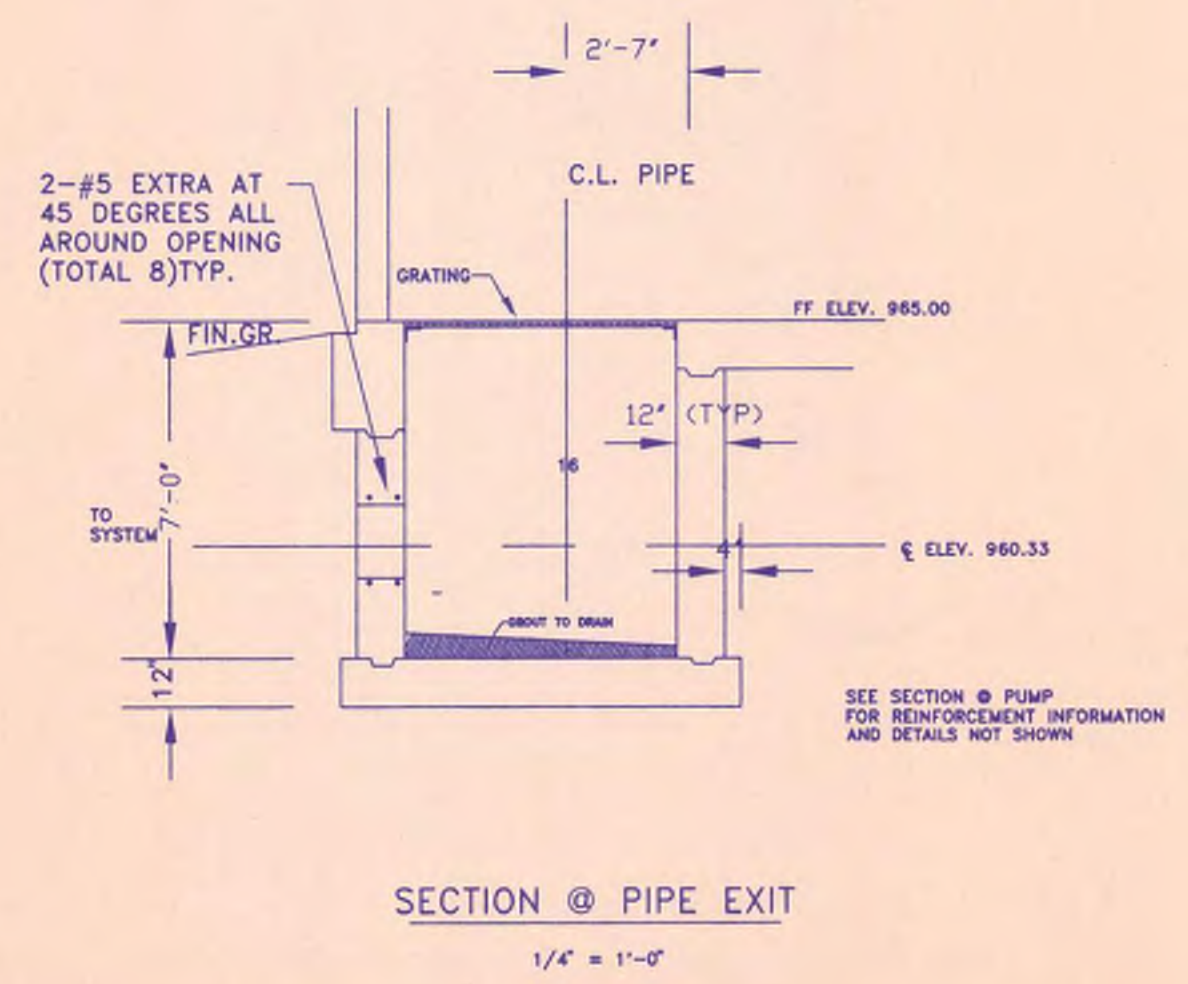
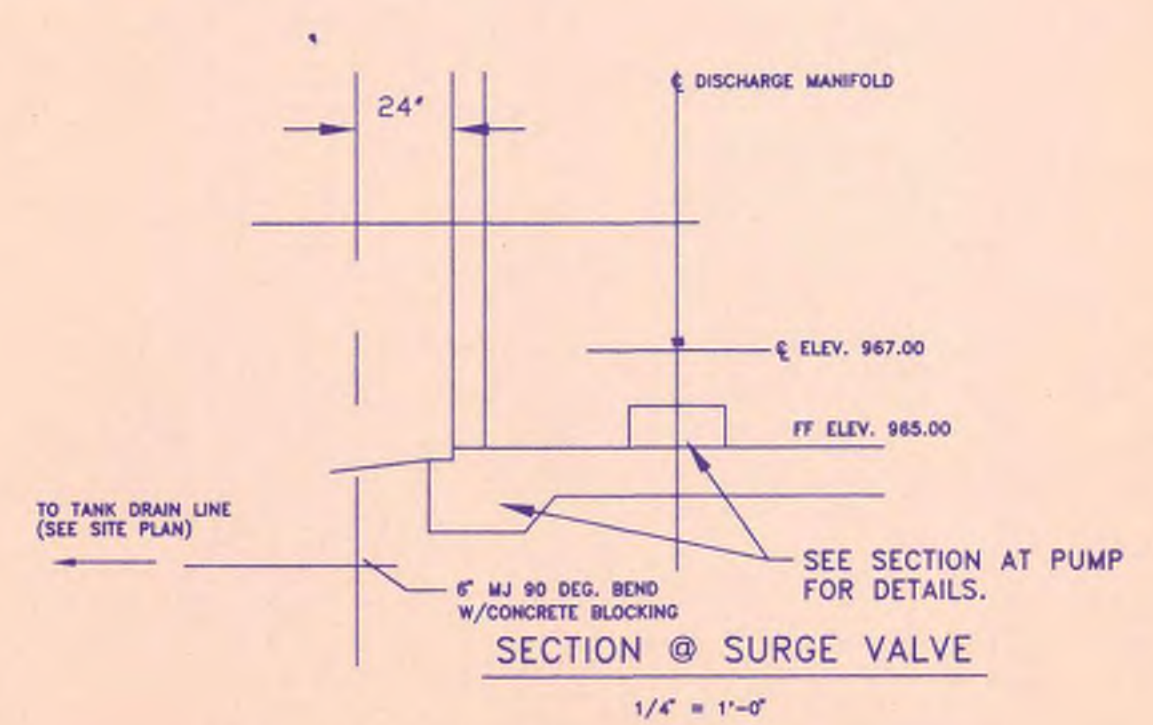
3/8" = 1'-0"

NOTE: REINF. STEEL SHOWN THIS SECTION IS TYPICAL. CO-ORDINATE PAD SIZE WITH EQUIPMENT. PROVIDE CORNER BARS FOR HORIZ. CONTINUOUS REINF.



SECTION @ INTAKE MANIFOLD

3/8" = 1'-0"

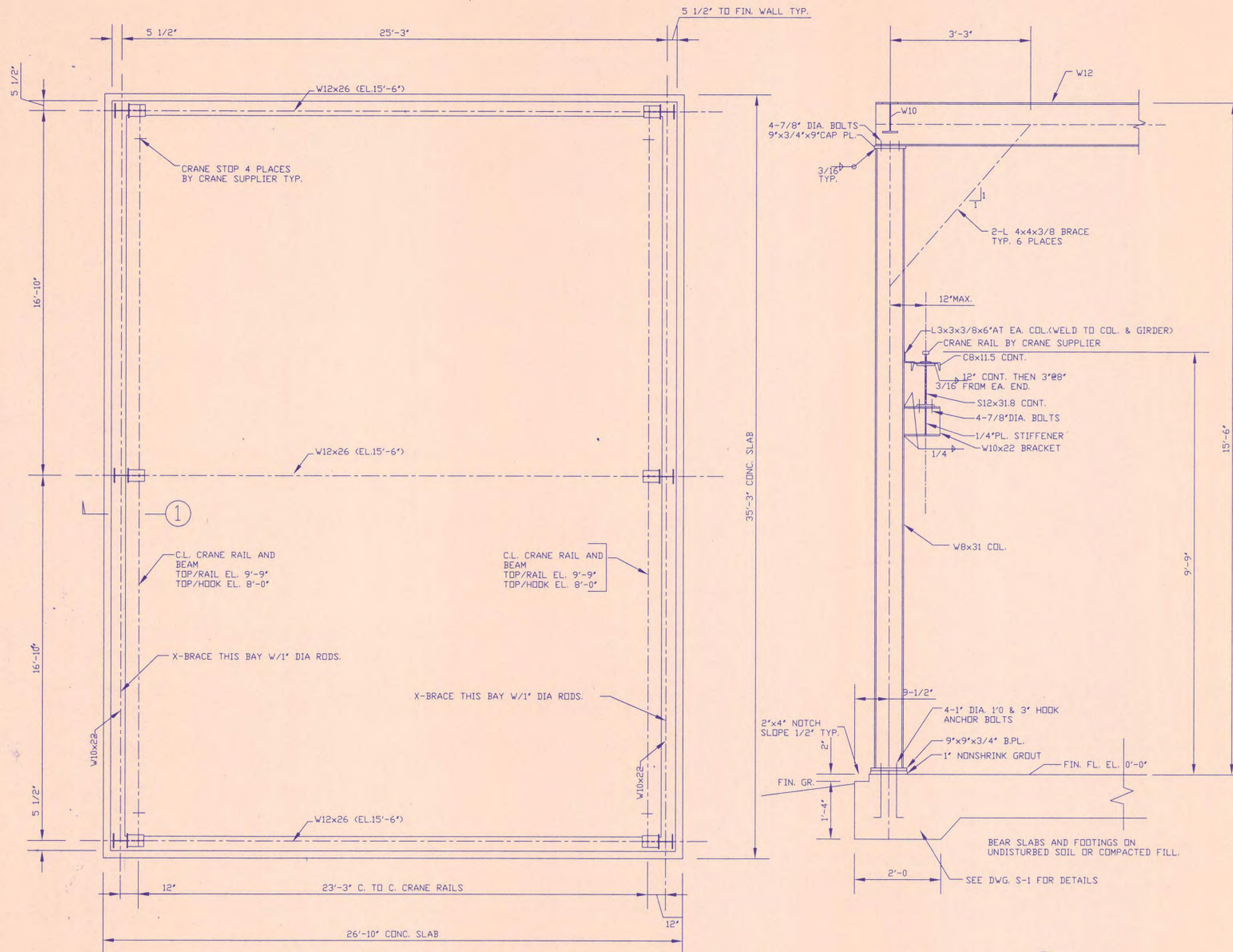


Mallett & Associates, Inc.
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 770-719-3333 770-719-3377 FAX

CRABAPPLE BOOSTER PUMP STATION
 FOR
 FAYETTE COUNTY WATER SYSTEM

S-1 FOUNDATION AND FLOOR PLAN

DESIGN	B.K.	SCALE	3/8"=1'-0" & AS NOTED
DRAWN	B.K.	DATE	7-1-97
LAND LOT -		CHECK	DWJ
DISTRICT -		FILE NO.	96164
COUNTY -		APPROVED	JEM
STATE -		SHEET NO.	10
REV. NO	DATE	DESCRIPTION	BY APP'D



CRANE SUPPORT FRAMING PLAN
SCALE: 3/8"=1'-0"

TYPICAL SECTION ①
SCALE: 3/4"=1'-0"

GENERAL NOTES :

- FOOTINGS ARE DESIGNED TO BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING AN ALLOWABLE SOIL PRESSURE OF 2000 PSF. FILL SOIL SHALL BE COMPACTED IN EIGHT INCH LAYERS TO 95% OF PROCTOR DRY DENSITY.
 - ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. DESIGN MIX AND PLACEMENT OF REINFORCING STEEL AND CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-95. CONTROL JOINTS FOR SLAB ON GRADE SHALL BE SAW CUT 15" DEEP WITHIN 16 HOURS OF POUR AND SHALL BE FILLED WITH ELASTOMERIC SEALANT. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4"
 - REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. USE PROPER SUPPORTS FOR PLACEMENT OF REINFORCING TO OBTAIN THE SPECIFIED CONCRETE COVER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, LOCATING AND PLACING ALL SLEEVES, INSERTS, ANCHOR BOLTS AND CONCRETE PADS AS REQUIRED BY THE EQUIPMENT.
 - STRUCTURAL STEEL SHALL COMPLY WITH ASTM A-36 STEEL. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE 9TH EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL SHALL BE SUBMITTED AND APPROVED PRIOR TO ANY FABRICATION.
 - STEEL FRAMING CONNECTIONS SHALL BE, IN GENERAL, SHOP WELDED AND FIELD BOLTED. BOLTS SHALL BE A MINIMUM 7/8" DIA. ASTM A-325.
 - BEAMS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP. ALL WELDS SHALL CONFORM TO ANSI/AWS D11 "STRUCTURAL WELDING CODE" AND WELDING MUST BE DONE BY CERTIFIED WELDERS. ALL STRUCTURAL STEEL SHALL BE SHOP PRIMED WITH RUST INHIBITIVE PRIMER. COORDINATE FINISH PAINT WITH THE ARCHITECT.
 - STRUCTURAL STEEL FRAMING SHALL BE ERECTED TRUE AND PLUMB IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE. PROVIDE TEMPORARY BRACING FOR THE STEEL FRAMING AS REQUIRED.
 - THE CRANE SHALL BE RATED FOR 2 TON CAPACITY. THE CRANE SUPPLIER SHALL BE RESPONSIBLE FOR FURNISHING AND ERECTING CRANE RAILS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CRANE SUPPLIER SHALL INSTALL 4 CRANE STOPS ON THE RAILS AS PER THE MANUFACTURER'S REQUIREMENTS. THE RAIL SPLICES SHALL BE STAGGERED. THE CRANE SUPPLIER SHALL COORDINATE HIS WORK WITH THE CONTRACTOR AND FURNISH TOLERANCES FOR INSTALLATION OF CRANE GIRDERS.
 - THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING NECESSARY SHORING DURING CONSTRUCTION AND SHALL COMPLY WITH THE OSHA REGULATIONS AND PROVIDE SAFE WORKING CONDITIONS ALL THE TIME DURING CONSTRUCTION. ALL PIT WALLS MUST BE SHORED DURING COMPACTION AND UNTIL FLOOR SLAB IS FULLY CURED.
- | | | | |
|---------------|-------|-----------|--|
| DESIGN LOADS: | ROOF: | LIVE LOAD | 20 PSF |
| | | DEAD LOAD | 15 PSF TOP CHORD |
| | | | 10 PSF BOTTOM CHORD |
| | WIND | | 200 PSF LIVE LOAD ANYWHERE ON BOT. CHORD |
| | CRANE | | 100 MPH |
| | | | 3100 Lbs. EA. WHEEL |



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CRABAPPLE BOOSTER PUMP STATION
FOR
FAYETTE COUNTY WATER SYSTEM

S-2 CRANE SUPPORT FRAMING PLAN

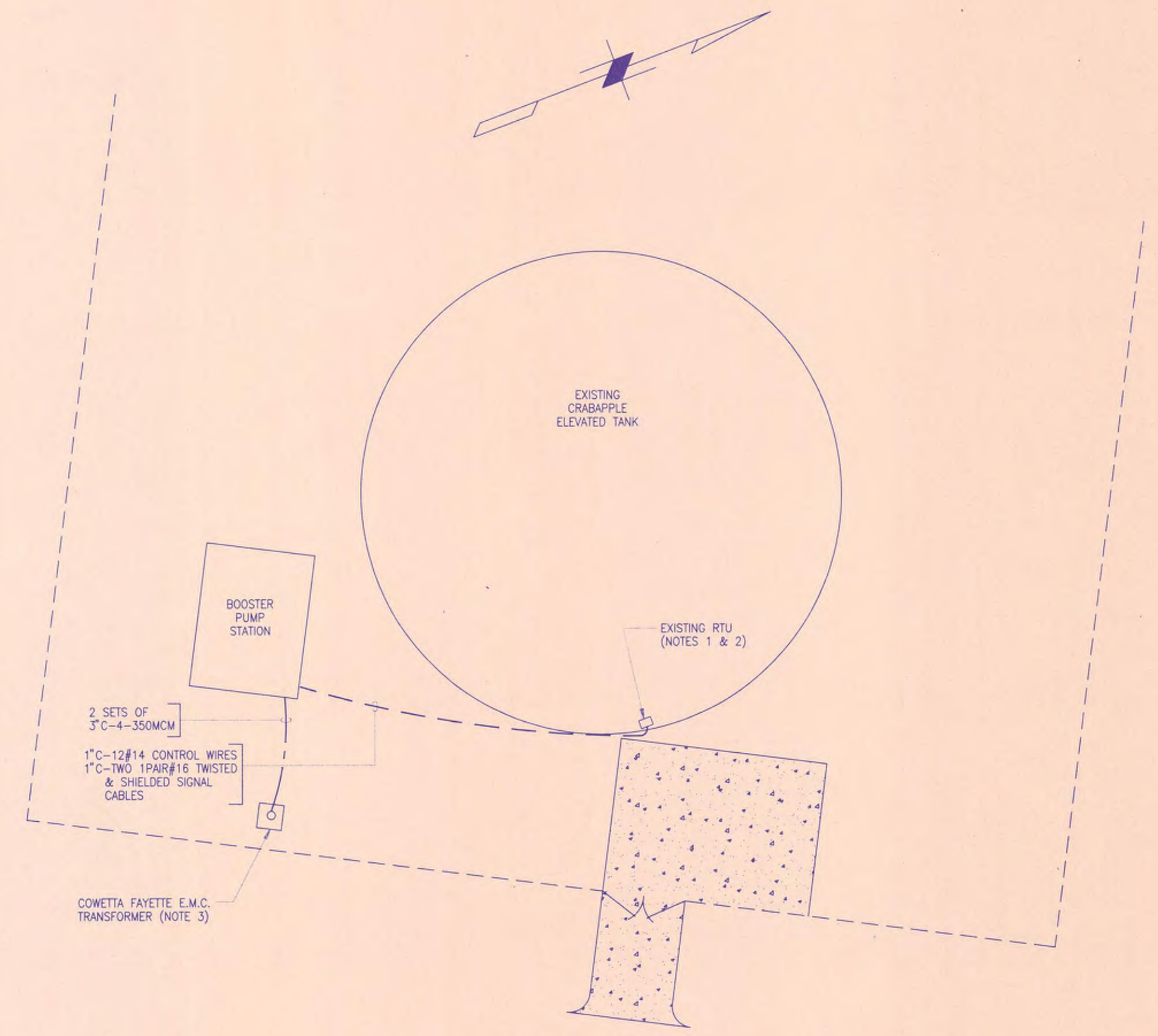
DESIGN B.K.	SCALE 3/8"=1'-0" & AS NOTED				
DRAWN B.K.	DATE B.K.				
CHECK DWJ	FILE NO. 96164				
APPROVED JEM	SHEET NO. 11				
REV. NO	DATE	DESCRIPTION	BY	APP'D	STATE

LEGEND



NOTES:

1. MODIFY THE EXISTING R.T.U. IN ACCORDANCE WITH THE SPECIFICATIONS.
2. FURNISH AND INSTALL 4' FLUORESCENT LIGHT FIXTURE TYPE 'C' ABOVE THE R.T.U. MOUNT LIGHT FIXTURE 8'-0" ABOVE FINISHED FLOOR. PROVIDE WELDED UNISTRUTS FROM TANK WALL TO INSTALL THE FIXTURE WITH THE DIFFUSER FACING DOWN. CONNECT THE LIGHT FIXTURE TO EXISTING LIGHT FIXTURE IN THE VICINITY.
3. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH THE POWER COMPANY.



LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
A	8' DUST & MOISTURE RESISTANT FLUORESCENT FIXTURE, IMPACT-RESISTANT REINFORCED POLYESTER HOUSING, BAKED ENAMEL FINISH, TWO F96T12/CW/HO LAMPS, 120V BALLAST. LITHONIA #DM296HO-120
B	INCANDESCENT DECORATIVE WALL MOUNTED LIGHT FIXTURE, BRASS CONSTRUCTION, TWO 60W CANDELABRA BASE LAMPS MCLEAN LIGHTING WORKS - "ZENKE (SMALL)"
C	4' FLUORESCENT FIXTURE, REINFORCED POLYESTER FIBERGLASS HOUSING, ACRYLIC DIFFUSER, TWO 40W T12 COOL WHITE LAMPS, 120V ENERGY SAVING BALLAST, U.L. LISTED FOR DAMP LOCATION. LITHONIA #DM240-120-ES

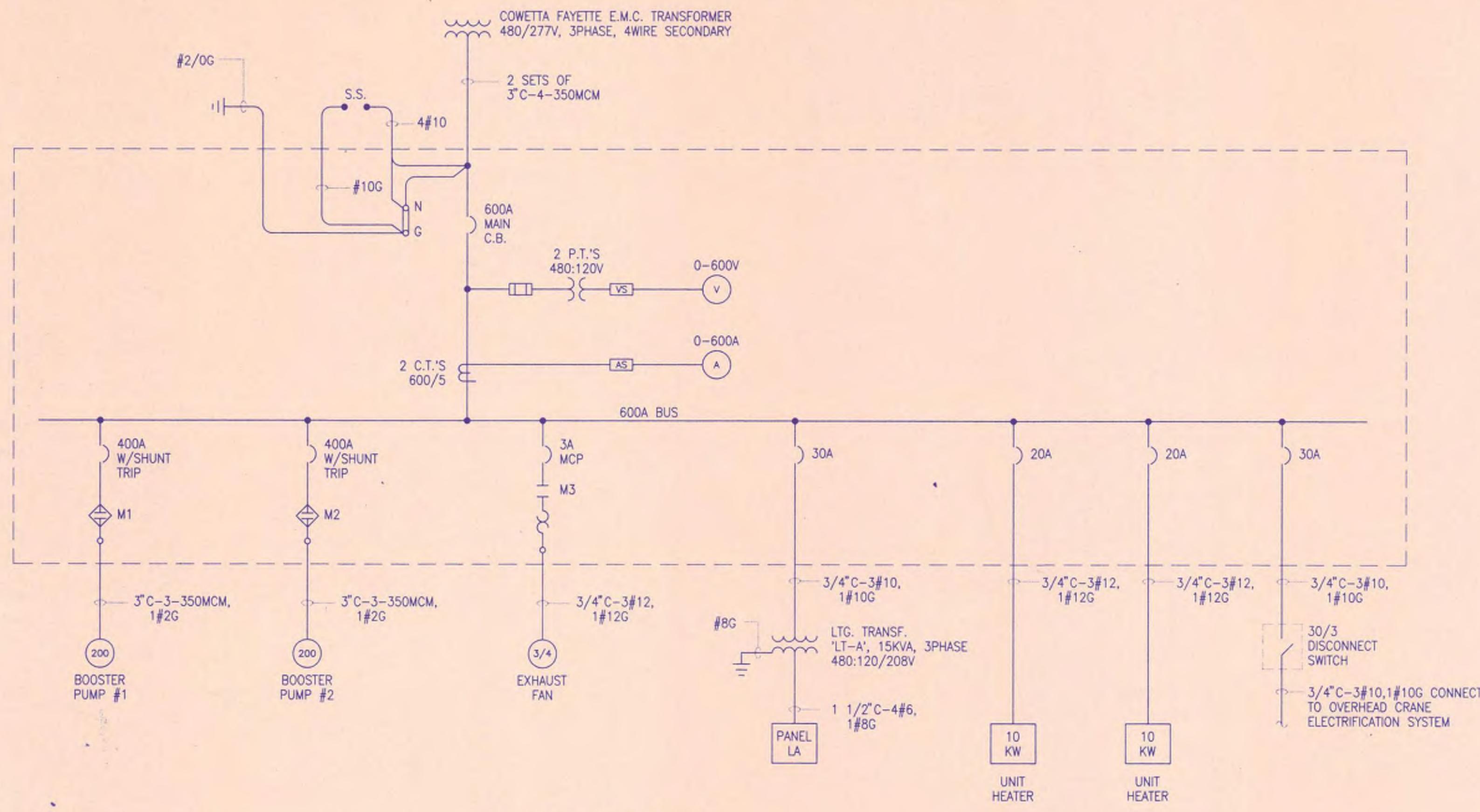


REV. NO	DATE	DESCRIPTION	BY	APP'D	STATE	DESIGN	SCALE
						SNK	1" = 20'
						DATE	JULY 1, 1997
						FILE NO.	96164
						SHEET NO.	12

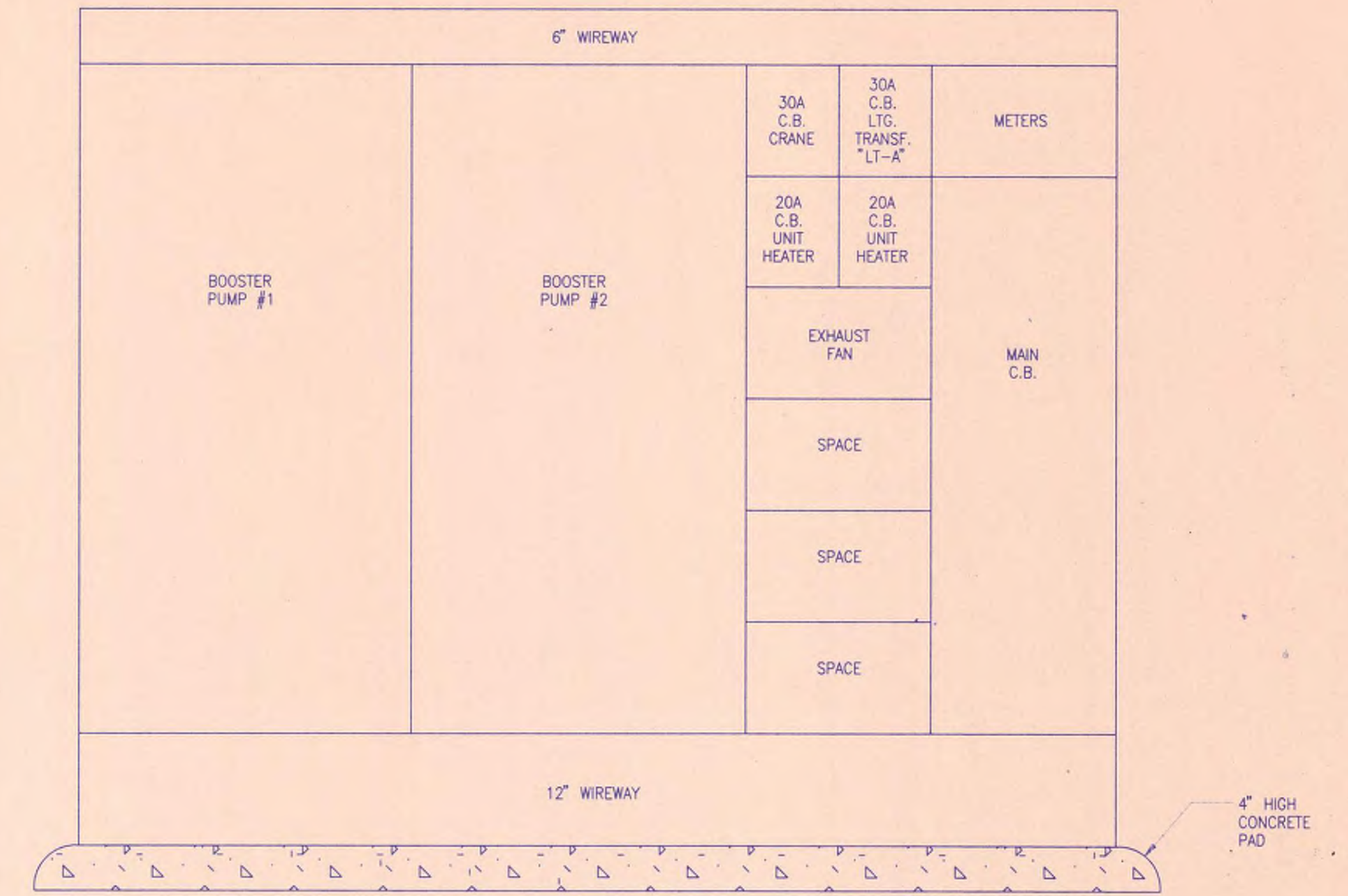
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CRABAPPLE BOOSTER PUMP STATION FOR FAYETTE COUNTY WATER SYSTEM

E1 LEGEND, SCHEDULES & SITE LAYOUT



SINGLE LINE DIAGRAM



MCC FRONT VIEW
N.T.S.

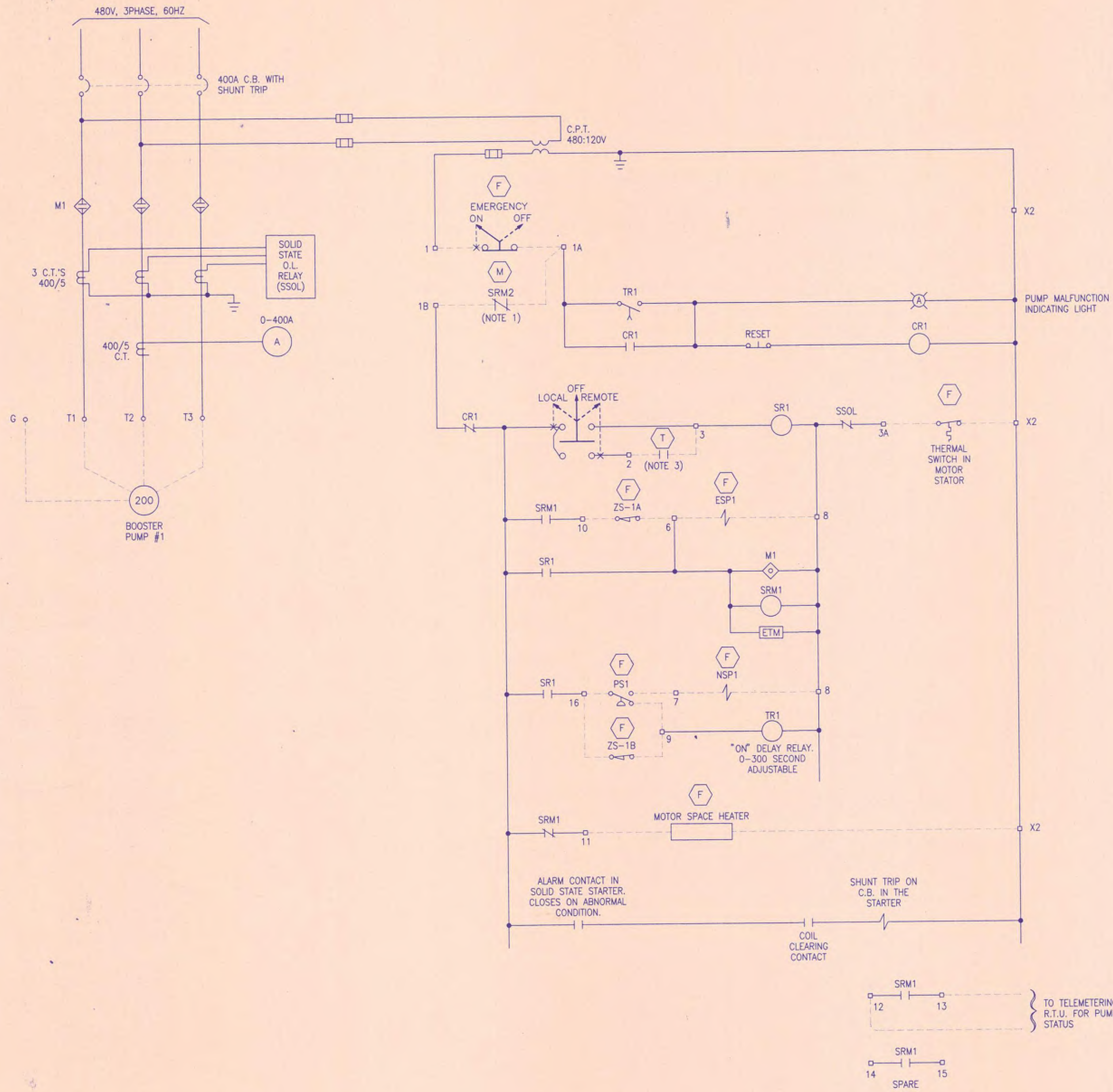
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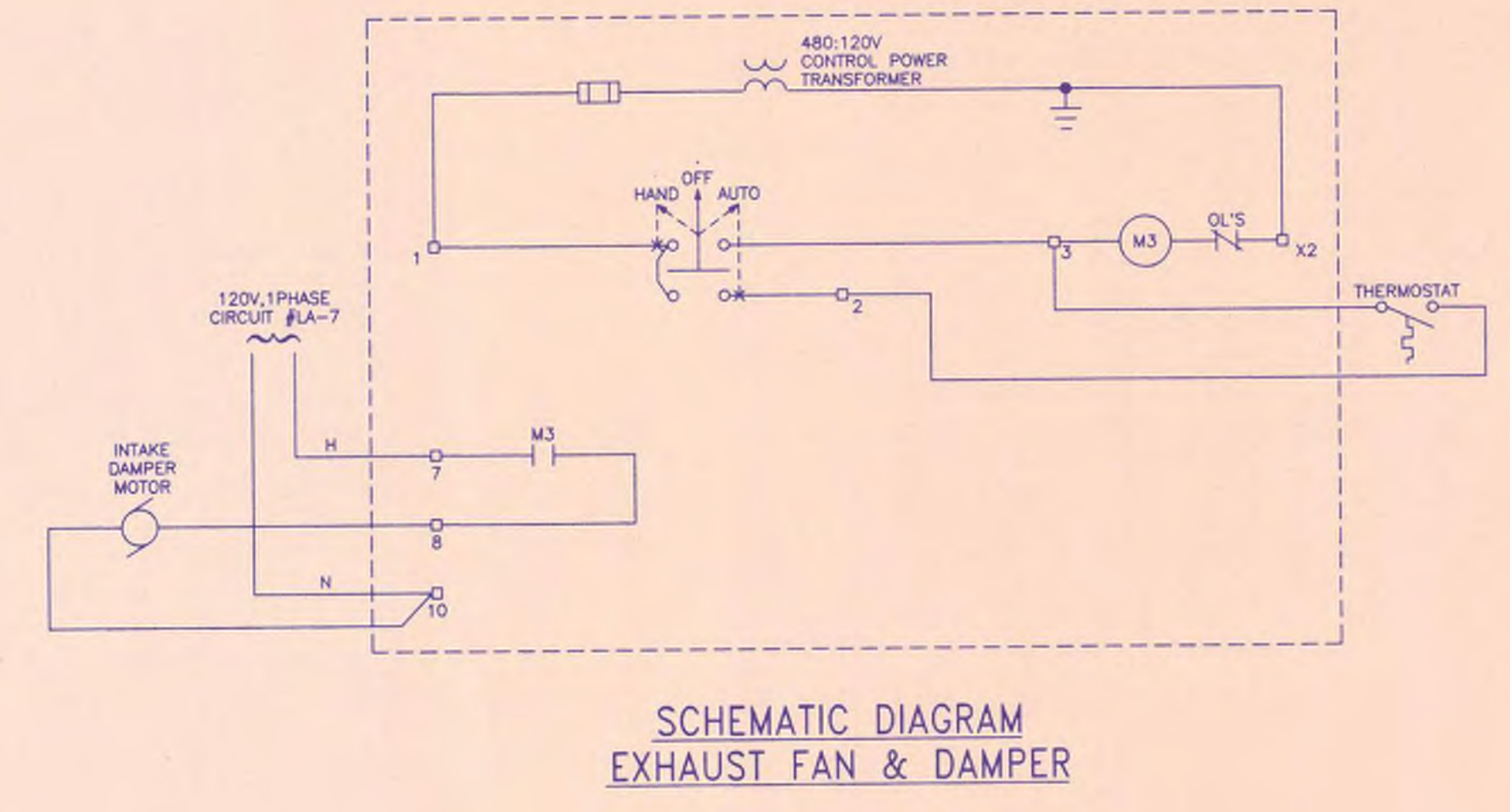
CRABAPPLE BOOSTER PUMP STATION
FOR
FAYETTE COUNTY WATER SYSTEM

E2	SINGLE LINE DIAGRAM		
DESIGN	SNK	SCALE	NONE
DRAWN	PYB	DATE	JULY 1, 1997
DISTRICT	CHECK	FILE NO.	96164
COUNTY	APPROVED	SHEET NO.	13
REV. NO	DATE	DESCRIPTION	BY APP'D STATE





**SCHEMATIC DIAGRAM
BOOSTER PUMP #1**
(NOTE 1)



**SCHEMATIC DIAGRAM
EXHAUST FAN & DAMPER**

- NOTES:**
1. SCHEMATIC DIAGRAM FOR BOOSTER PUMP #2 SHALL BE SIMILAR.
 2. CONTACT IN BOOSTER PUMP #2 STARTER, OPENS WHEN BOOSTER PUMP #2 IS RUNNING TO PREVENT PUMP #1 FROM RUNNING.
 3. PUMP START/STOP CONTACT IN TELEMETERING R.T.U. LOCATED AT CRABAPPLE TANK.

- LEGEND**
- FIELD WIRING
 - NSP1 DENOTES NORMAL SOLENOID PILOT VALVE
 - ESP1 DENOTES EMERGENCY SOLENOID PILOT VALVE
 - PS1 DENOTES PUMP DISCHARGE PRESSURE SWITCH. CONTACT TRANSFERS WHEN PUMP PRODUCES PROPER PRESSURE
 - ZS-1A LIMIT SWITCH ON PUMP DISCHARGE VALVE. OPENS WHEN VALVE IS FULLY CLOSED.
 - ZS-1B LIMIT SWITCH ON PUMP DISCHARGE VALVE. CLOSED WHEN VALVE IS NOT FULLY OPEN.

- LOCATION LEGEND**
- (F) LOCATED IN FIELD
 - (M) LOCATED IN DIFFERENT STARTER IN M.C.C.
 - (T) LOCATED IN TELEMETERING R.T.U.
 - ALL THE OTHER UNDESIGNATED DEVICES ARE LOCATED IN THE STARTER

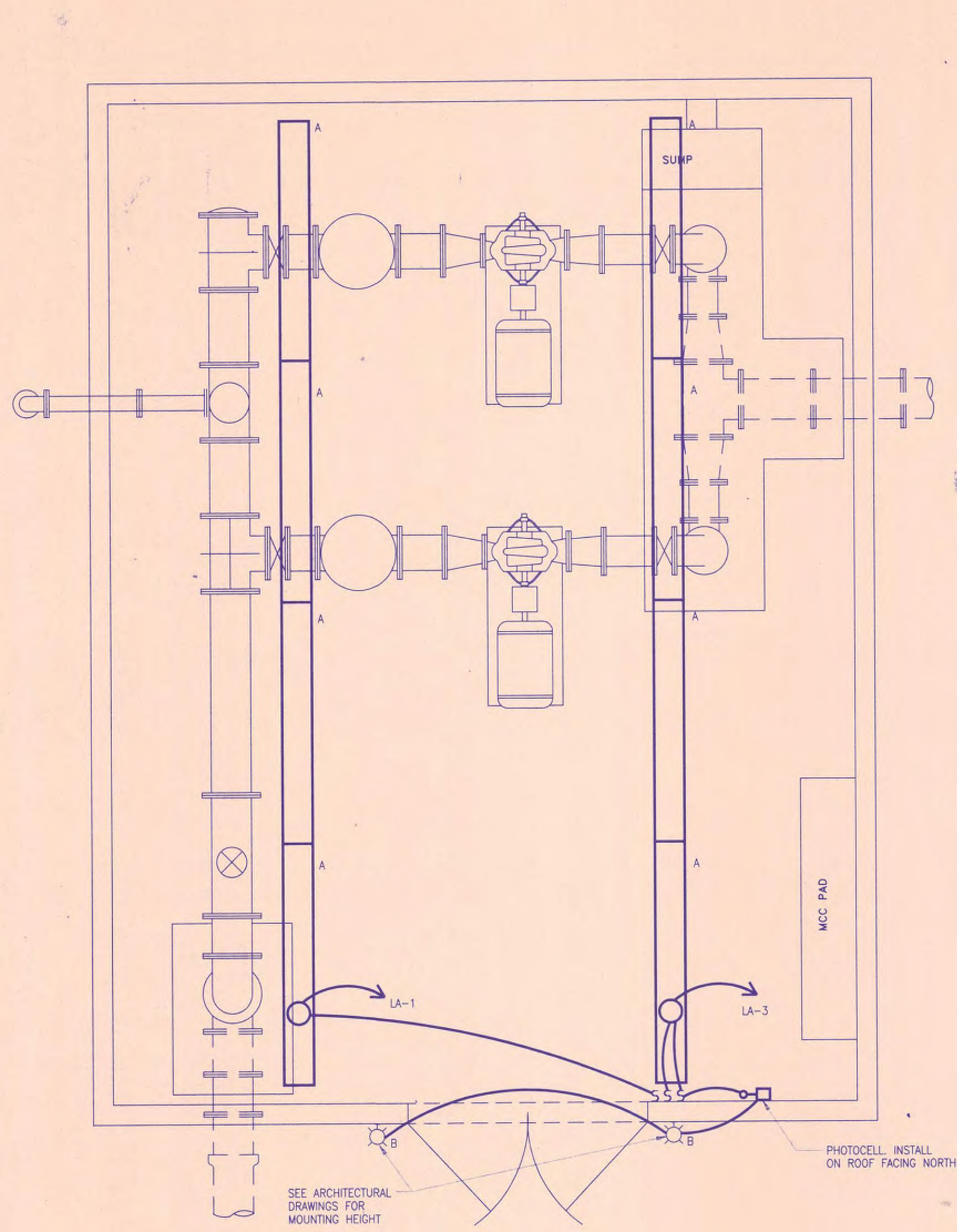
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**CRABAPPLE BOOSTER PUMP STATION
FOR
FAYETTE COUNTY WATER SYSTEM**

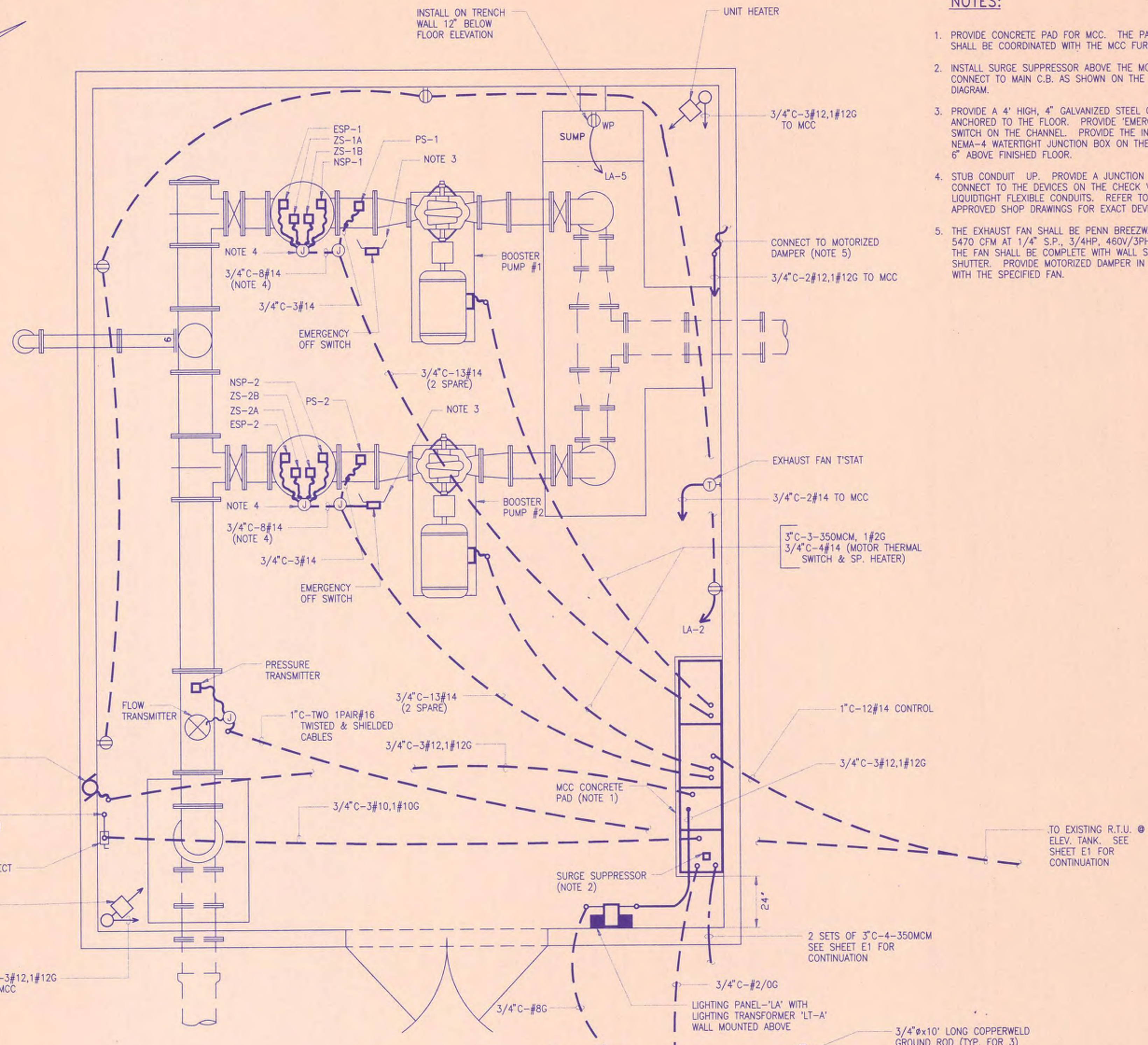
E3 SCHEMATIC DIAGRAMS



DESIGN	SNK	SCALE	NONE
DRAWN	PYB	DATE	JULY 1, 1997
LAND LDT -		CHECK	FILE NO.
DISTRICT -		SNK	96164
COUNTY -		APPROVED	SHEET NO.
REV. NO	DATE	DESCRIPTION	BY APP'D STATE -
			JEM 14



LIGHTING LAYOUT
3/8" = 1'-0"



POWER LAYOUT
3/8" = 1'-0"

- NOTES:**
1. PROVIDE CONCRETE PAD FOR MCC. THE PAD DIMENSION SHALL BE COORDINATED WITH THE MCC FURNISHED.
 2. INSTALL SURGE SUPPRESSOR ABOVE THE MCC AND CONNECT TO MAIN C.B. AS SHOWN ON THE SINGLE LINE DIAGRAM.
 3. PROVIDE A 4" HIGH, 4" GALVANIZED STEEL CHANNEL ANCHORED TO THE FLOOR. PROVIDE 'EMERGENCY OFF' SWITCH ON THE CHANNEL. PROVIDE THE INDICATED NEMA-4 WATER TIGHT JUNCTION BOX ON THE CHANNEL AT 6" ABOVE FINISHED FLOOR.
 4. STUB CONDUIT UP. PROVIDE A JUNCTION BOX AND CONNECT TO THE DEVICES ON THE CHECK VALVE USING LIQUID TIGHT FLEXIBLE CONDUITS. REFER TO MANUFACTURER'S APPROVED SHOP DRAWINGS FOR EXACT DEVICE LOCATIONS.
 5. THE EXHAUST FAN SHALL BE PENN BREEZWAY MODEL P24T, 5470 CFM AT 1/4" S.P., 3/4HP, 460V/3PHASE MOTOR. THE FAN SHALL BE COMPLETE WITH WALL SLEEVE AND WALL SHUTTER. PROVIDE MOTORIZED DAMPER IN COORDINATION WITH THE SPECIFIED FAN.

PANELBOARD SCHEDULE

CIRC. NUMBER	PANEL LA TYPE	CIRCUIT DESIGNATION	CIRC. VA	TRIP/POLES	LOAD (VA)			TRIP/POLES	CIRC. VA	CIRCUIT DESIGNATION	CIRC. NUMBER
					A	B	C				
1	LIGHTS		800	20/1	1600			20/1	800	RECEPTACLES	2
3	LIGHTS		1000	20/1		1000		20/1		SPARE	4
5	SUMP PUMP RECEPT.		1000	20/1			1000	20/1		SPARE	6
7	MOTORIZED DAMPER		200	20/1	200			20/1		SPARE	8
9	SPARE			20/1		0		20/1		SPARE	10
11	SPARE			20/1		0		20/1		SPARE	12
13	SPARE			20/1	0			20/1		SPARE	14
15	SPARE			20/1		0		20/1		SPARE	16
17				20/1		0		20/1			18
19				20/1		0		20/1			20
21				20/1		0		20/1			22
23				20/1		0		20/1			24
25				20/1		0		20/1			26
27				20/1		0		20/1			28
29				20/1		0		20/1			30
31				20/1		0		20/1			32
33				20/1		0		20/1			34
35				20/1		0		20/1			36
37				20/1		0		20/1			38
39				20/1		0		20/1			40
41				20/1		0		20/1			42
PHASE TOTALS:					1800	1000	1000				
TOTAL CONNECTED LOAD:						3800					



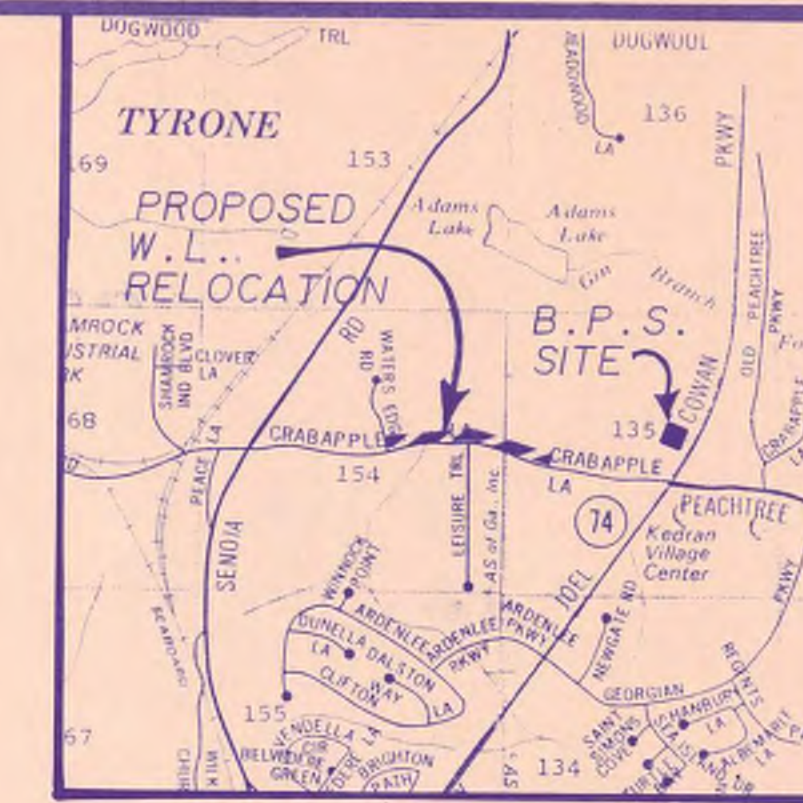
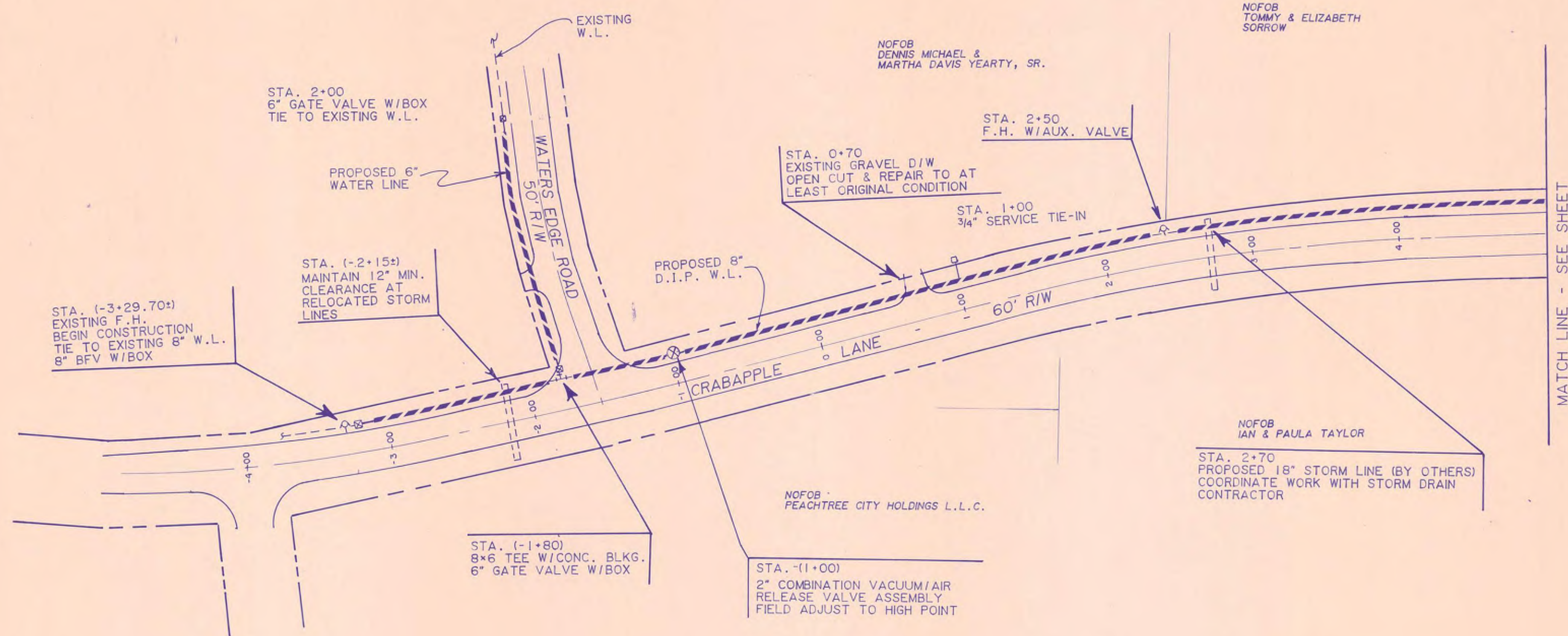
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770-719-3333
770-719-3377 FAX

CRABAPPLE BOOSTER PUMP STATION
FOR
FAYETTE COUNTY WATER SYSTEM

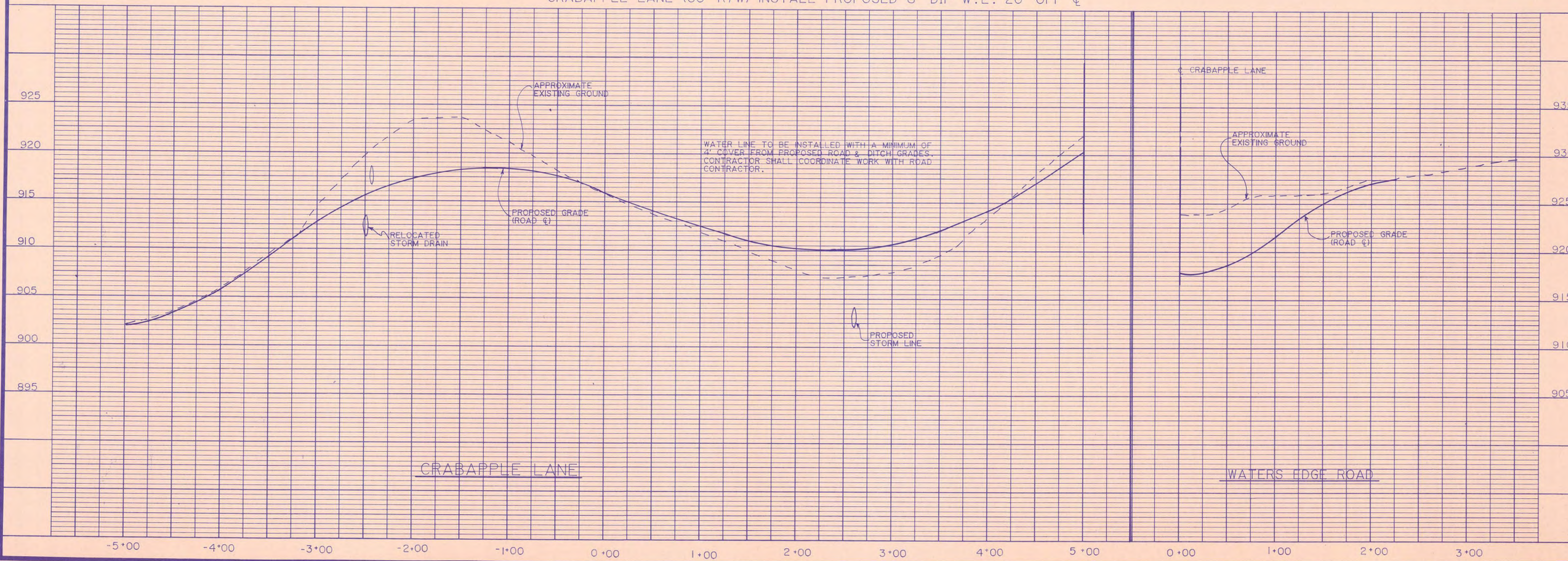
E4 ELECTRICAL LIGHTING AND POWER LAYOUTS

REV. NO	DATE	DESCRIPTION	BY	APP'D	STATE

DESIGN	SCALE
SNK	NONE
DRAWN	DATE
PYB	JULY 1, 1997
CHECK	FILE NO.
SNK	96164
APPROVED	SHEET NO.
JEM	15



CRABAPPLE LANE (60' R/W) INSTALL PROPOSED 8" DIP W.L. 20' OFF C



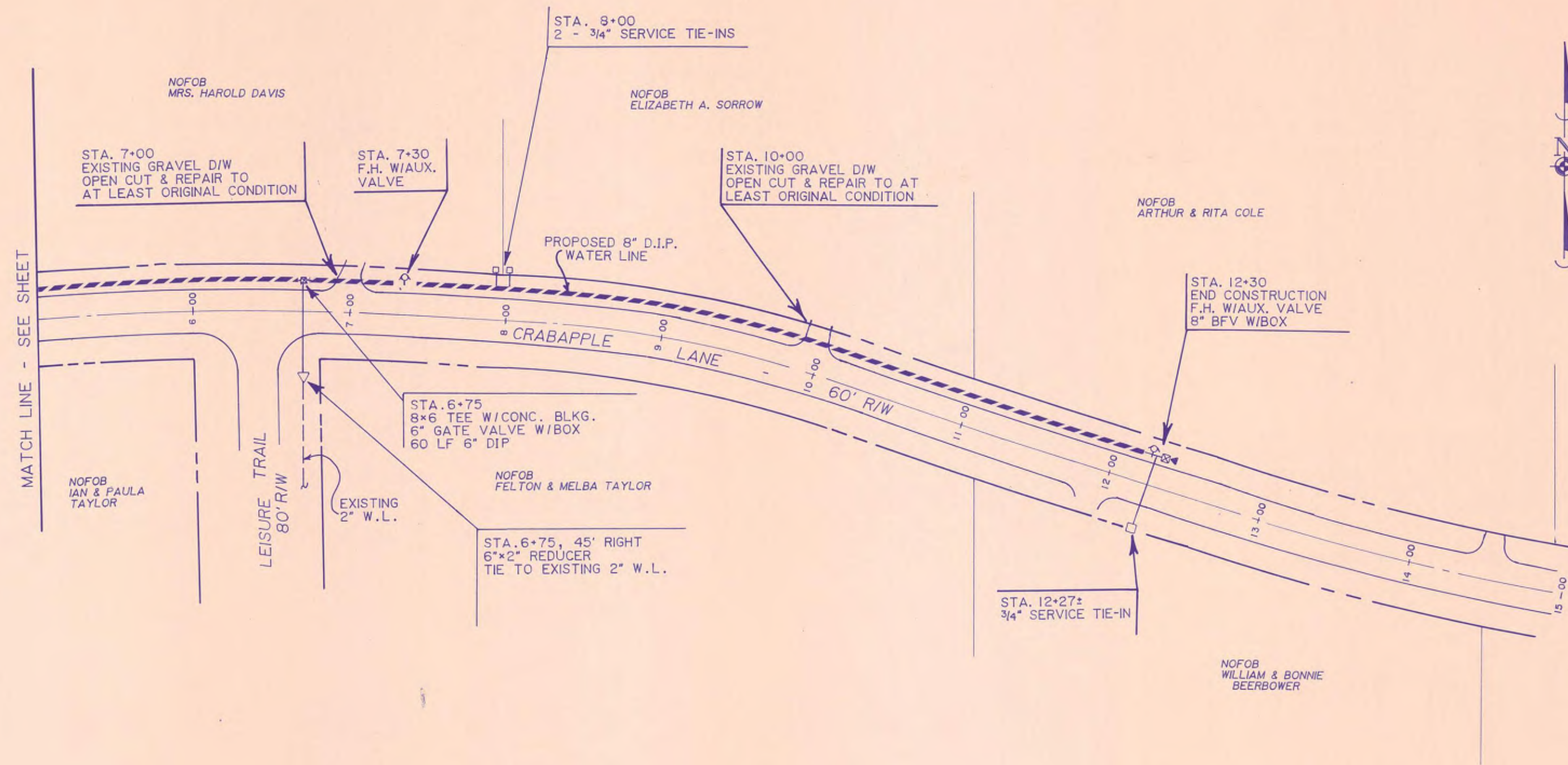
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	7-1-97	DMM	DWJ	96164	16

DESIGN	BY	DATE	DESCRIPTION

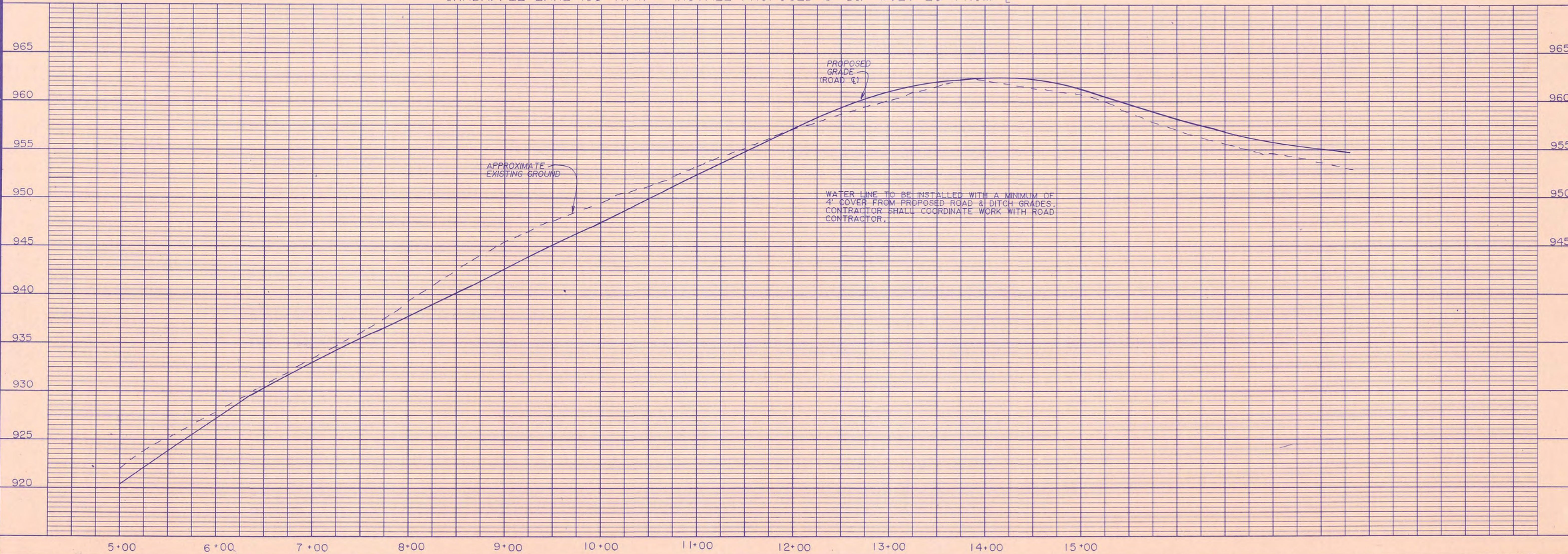
REV.	NO.	DATE	DESCRIPTION

CRABAPPLE BOOSTER PUMP STATION
 PLAN & PROFILE
 CRABAPPLE LANE WATER LINE RELOCATION

REPRODUCTION 31884



CRABAPPLE LANE (60' R/W) - INSTALL PROPOSED 8" DIP W.L. 20' FROM C



SCALE	DATE	FILE NO.	SHEET NO.
	7-1-97	96164	17

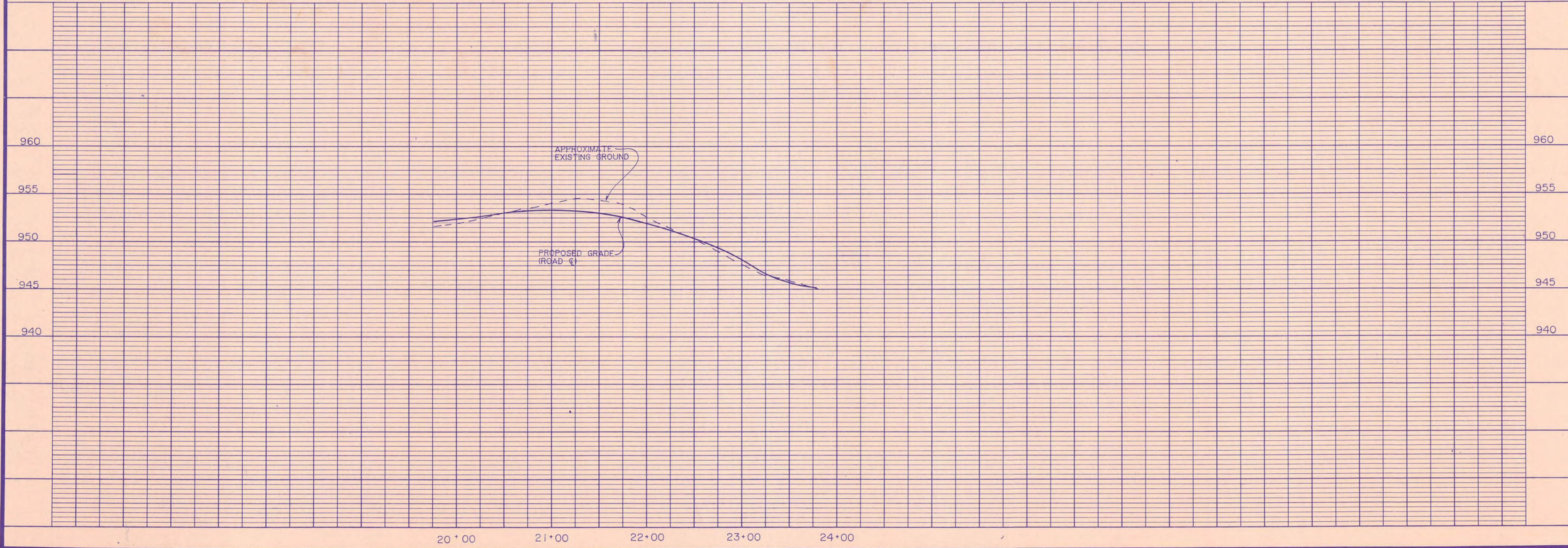
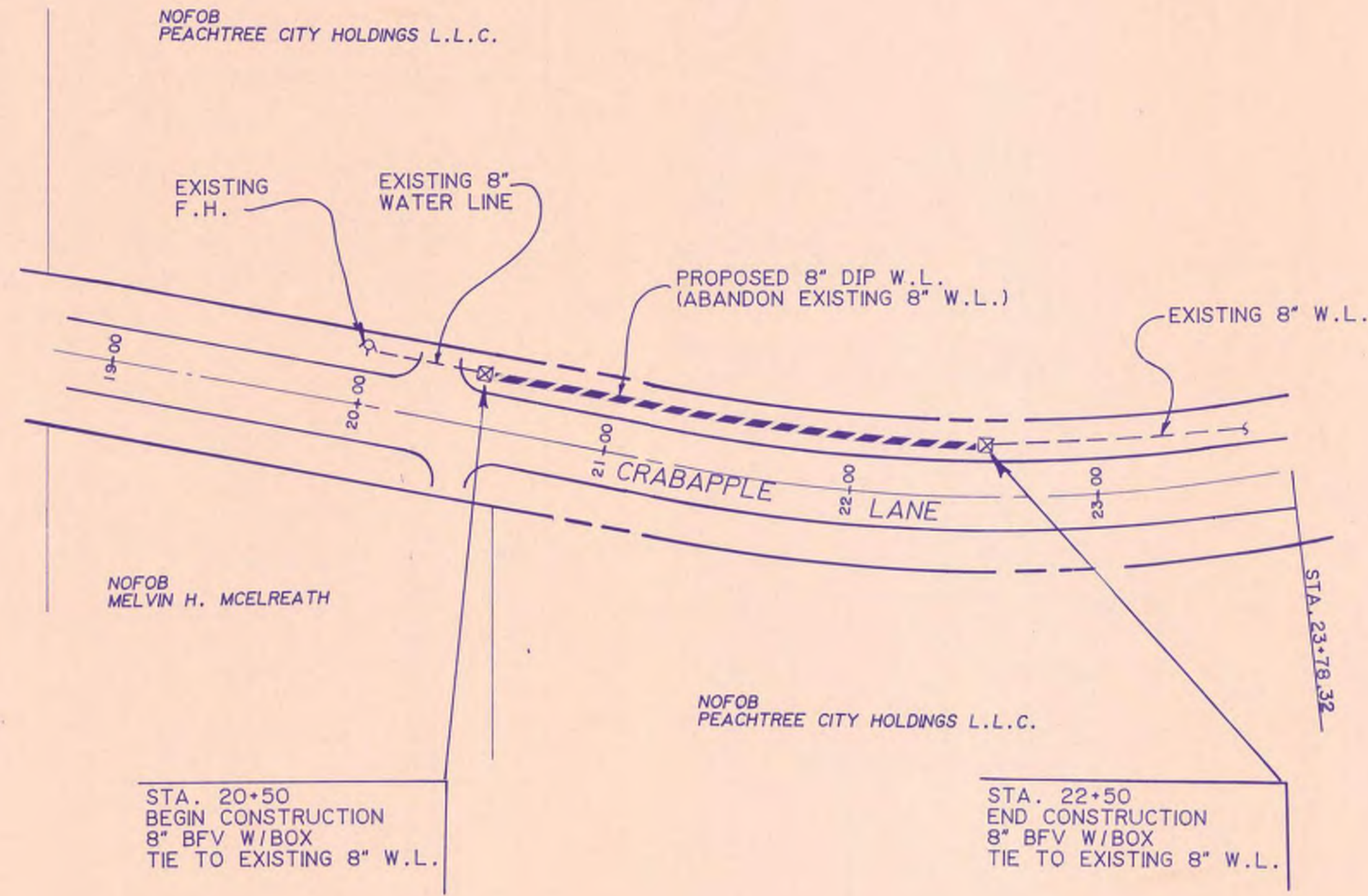
DESIGN	DRAWN	CHECK	APPROVED
	DMM	DWJ	JEM

REV. NO.	DATE	DESCRIPTION

CRABAPPLE BOOSTER PUMP STATION
 PLAN & PROFILE
 CRABAPPLE LANE WATER LINE RELOCATION

Mallett & Associates





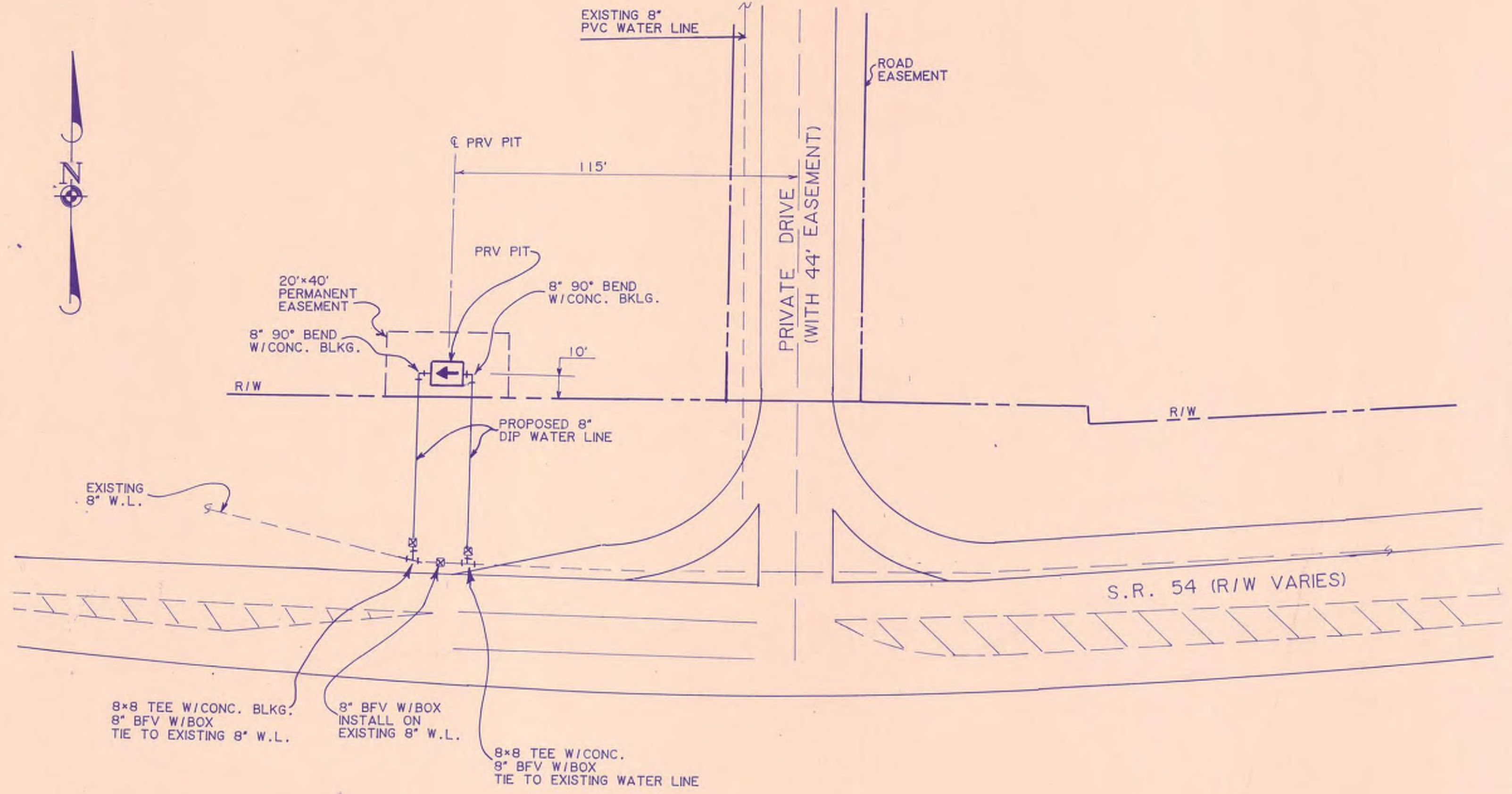
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DATE 7-1-97	DRAWN DMM
FILE NO. 96164	CHECK DWJ
SHEET NO. 18	APPROVED JEM

CRABAPPLE BOOSTER PUMP STATION

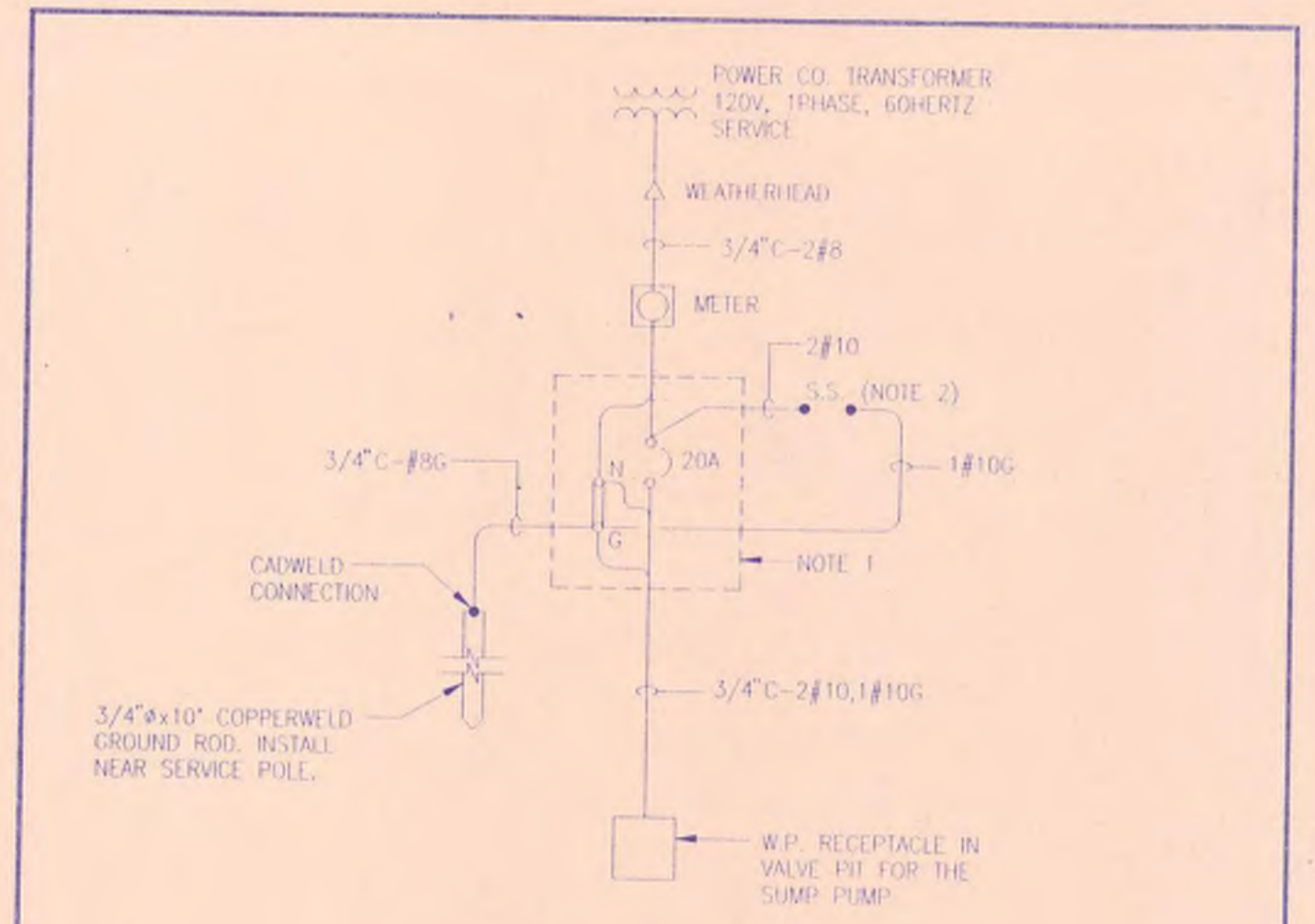
PLAN & PROFILE
CRABAPPLE LANE WATER LINE RELOCATION

Wallett & Associates



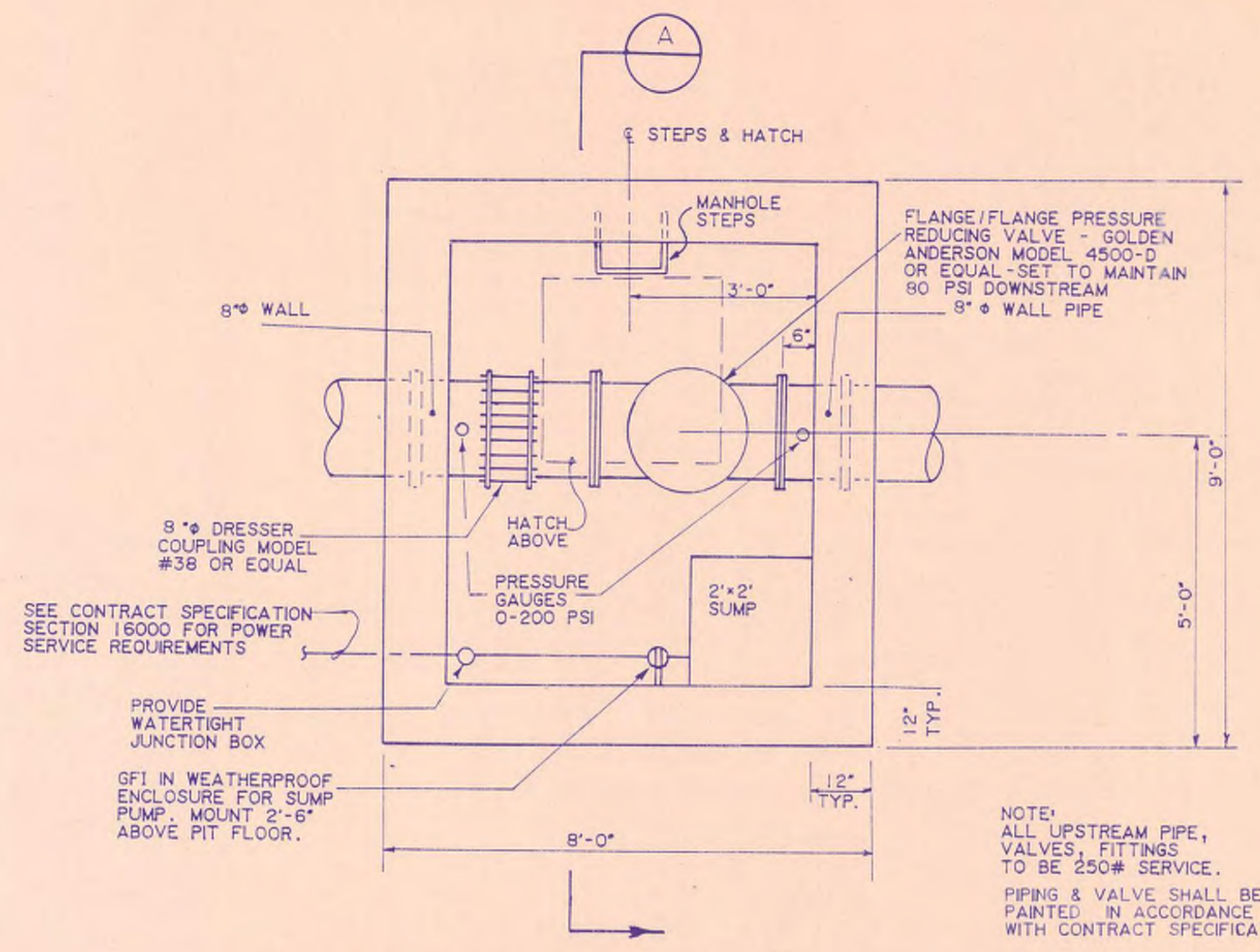


PRV PIT PIPING LAYOUT
1" = 30'

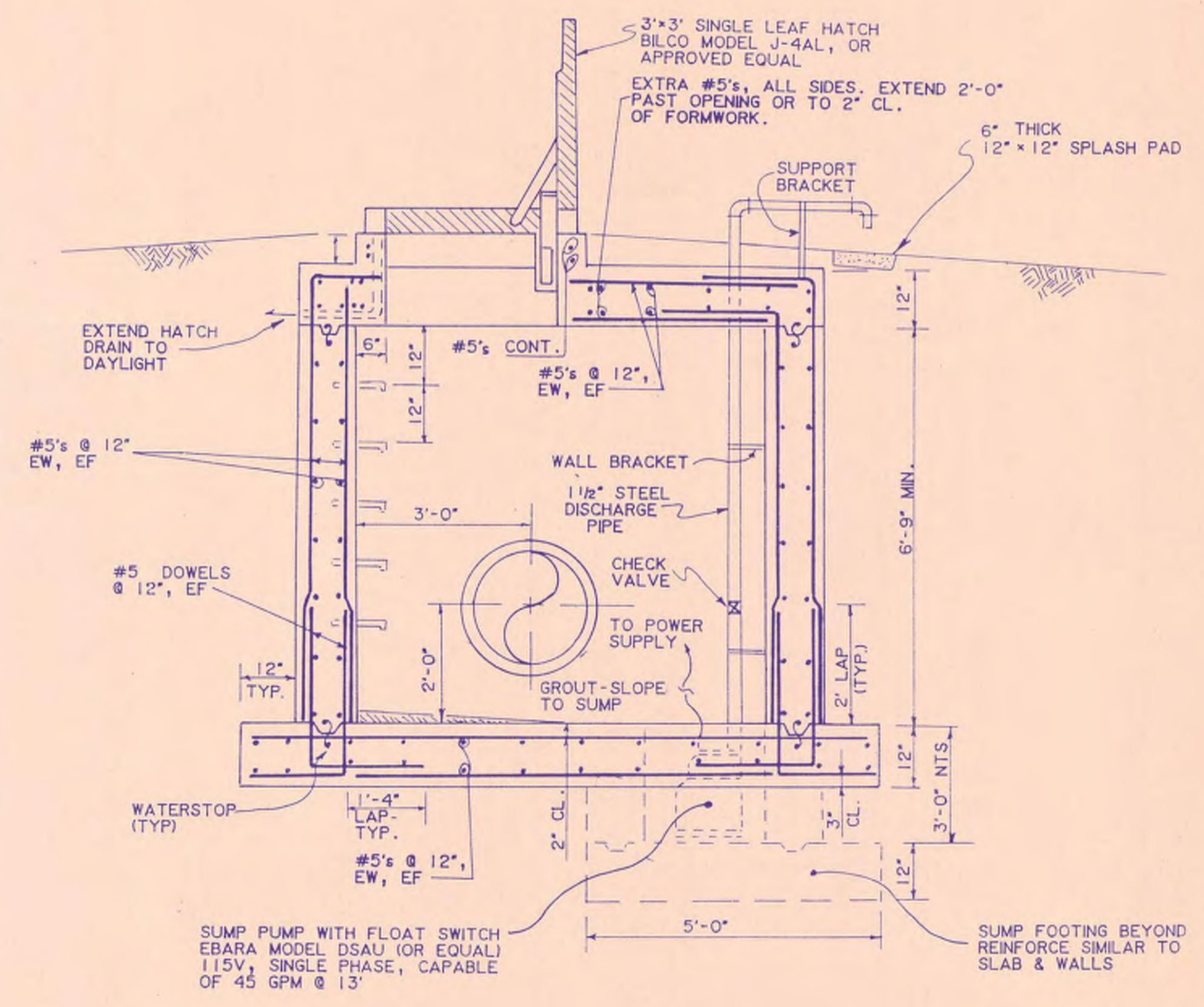


SINGLE LINE DIAGRAM

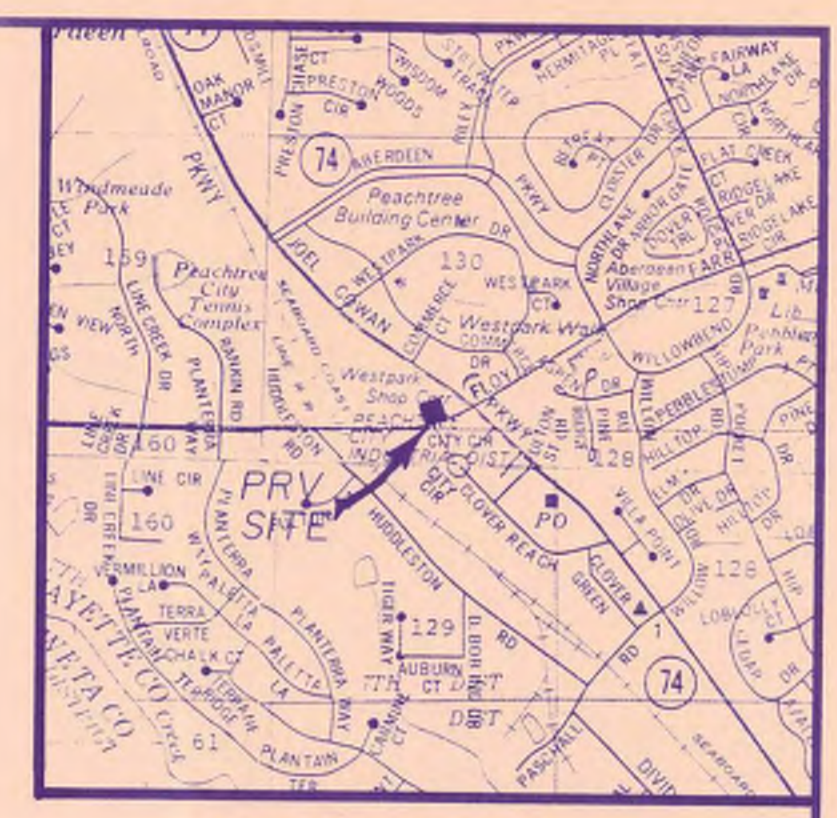
- NOTES:
1. PROVIDE A 20A, 1POLE, CIRCUIT BREAKER IN NEMA-4X STAINLESS STEEL ENCLOSURE WITH EXTERNAL HANDLE PADLOCKABLE IN BOTH "ON" AND "OFF" POSITIONS. THE CIRCUIT BREAKER SHORT CIRCUIT RATING SHALL BE 10,000A, R.M.S., SYMMETRICAL AND SHALL BE LISTED SUITABLE FOR SERVICE ENTRANCE. INSTALL CIRCUIT BREAKER ON SERVICE POLE.
 2. PROVIDE A SURGE SUPPRESSOR SUITABLE FOR CONNECTION TO 120V, 1PHASE POWER. THE SURGE CURRENT RATING SHALL BE 40,000A PER PHASE. THE ENCLOSURE SHALL BE NEMA-4X. A RED LED SHALL BE PROVIDED ON THE SUPPRESSOR. THE SURGE SUPPRESSOR SHALL BE UL1449, UL1283 LISTED, WARRANTED FOR FIVE YEARS AND SHALL BE LIBERTY CAT #ACV120-101 OR APPROVED EQUAL. INSTALL BELOW CIRCUIT BREAKER AND NIPPLE TO IT.
 3. PROVIDE SERVICE POLE AS SPECIFIED. COORDINATE LOCATION WITH THE POWER COMPANY.



PLAN VIEW - PRESSURE REDUCING VALVE PIT
1/2" = 1' - 0"



SECTION - PRESSURE REDUCING VALVE PIT
1/2" = 1' - 0"



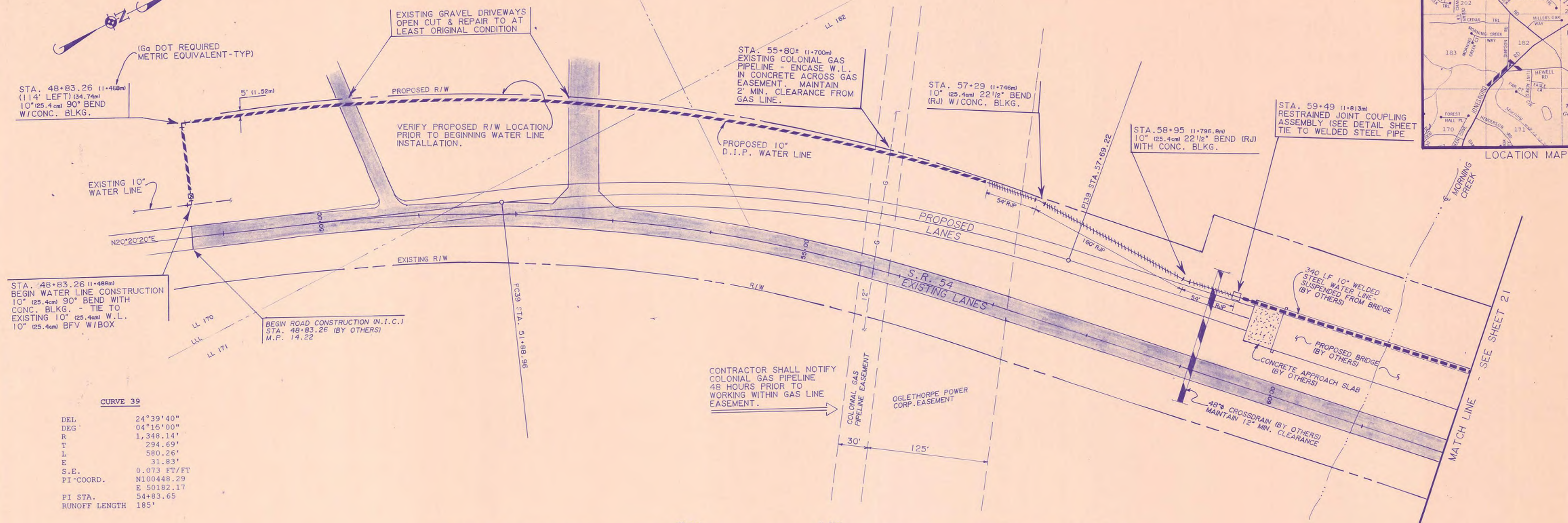
LOCATION MAP
1" = 2000'

Mallett & Associates, Inc.
4313 CAMP HIGHLAND RD. SMYRNA, GEORGIA 30080
404 / 432-5634

CRABAPPLE BOOSTER PUMP STATION

PRV PIT @ HWY. 54

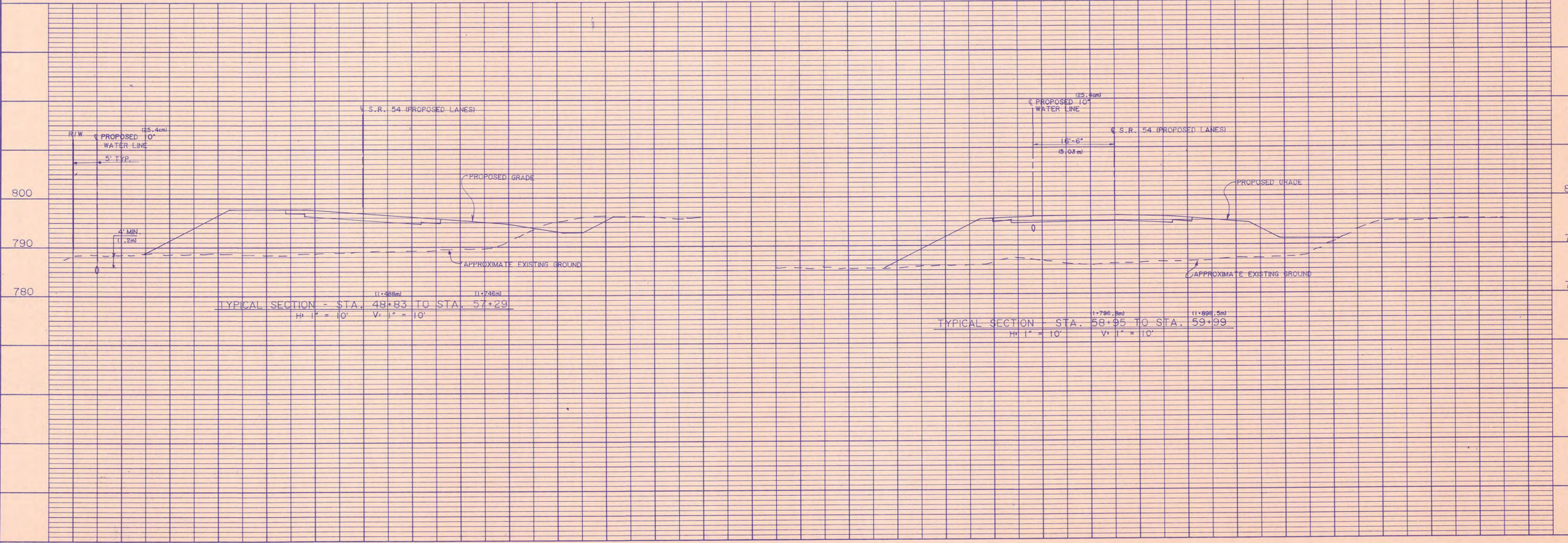
DESIGN	SCALE				
DRAWN	DATE				
CHECK	FILE NO.				
APPROVED	SHEET NO.				
REV. NO.	DATE	DESCRIPTION	BY	APP'D BY	STATE



CURVE 39

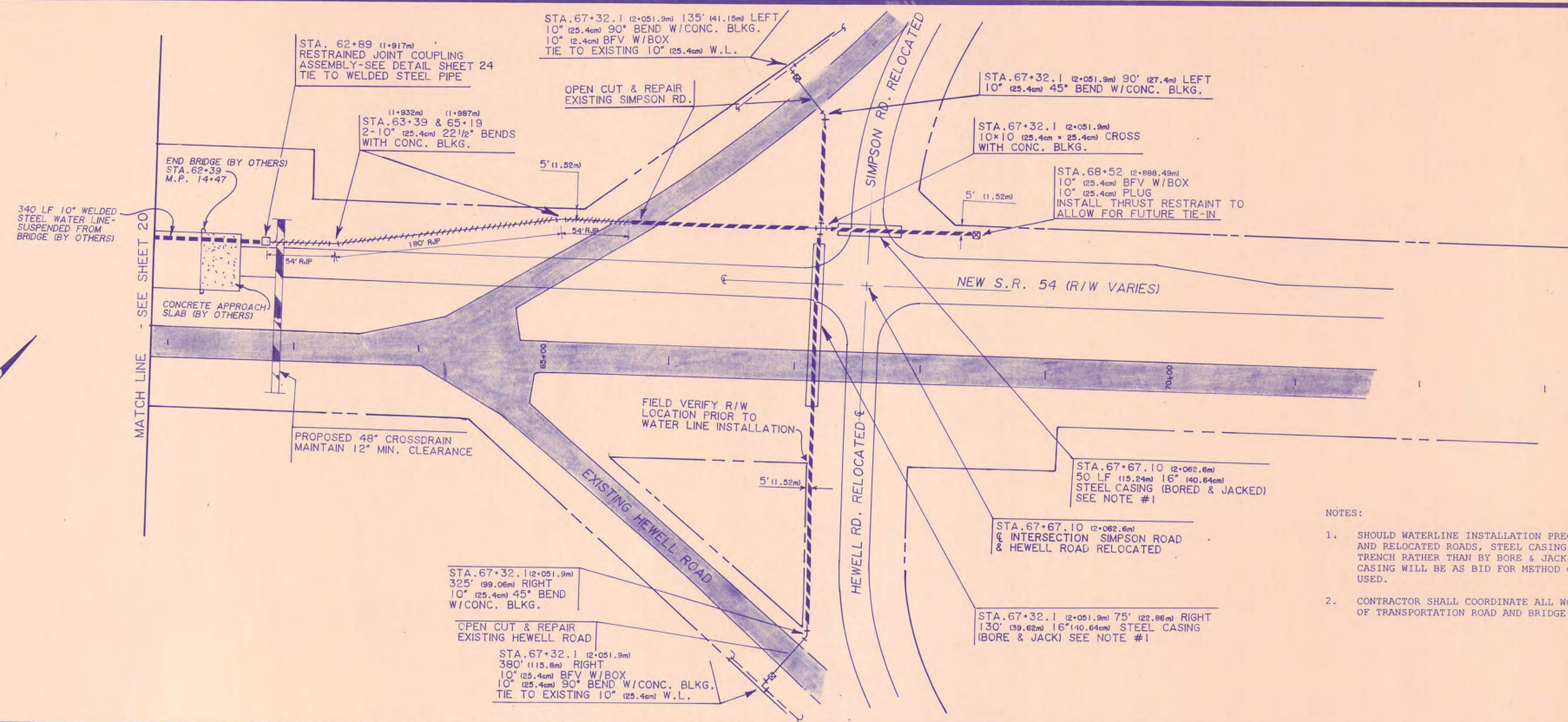
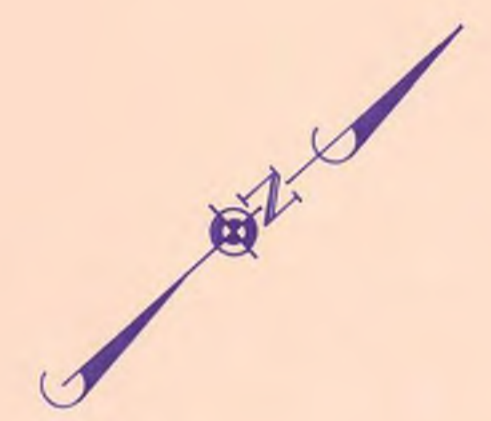
DEL	24°39'40"
DEG	04°15'00"
R	1,348.14'
T	294.69'
L	580.26'
E	31.83'
S.E.	0.073 FT/FT
PI-COORD.	N100448.29 E 50182.17
PI STA.	54+83.65
RUNOFF LENGTH	185'

S.R. 54 (R/W VARIES)-INSTALL PROPOSED 10" D.I.P. WATER LINE 5' INSIDE PROPOSED R/W, UNLESS SHOWN OTHERWISE.

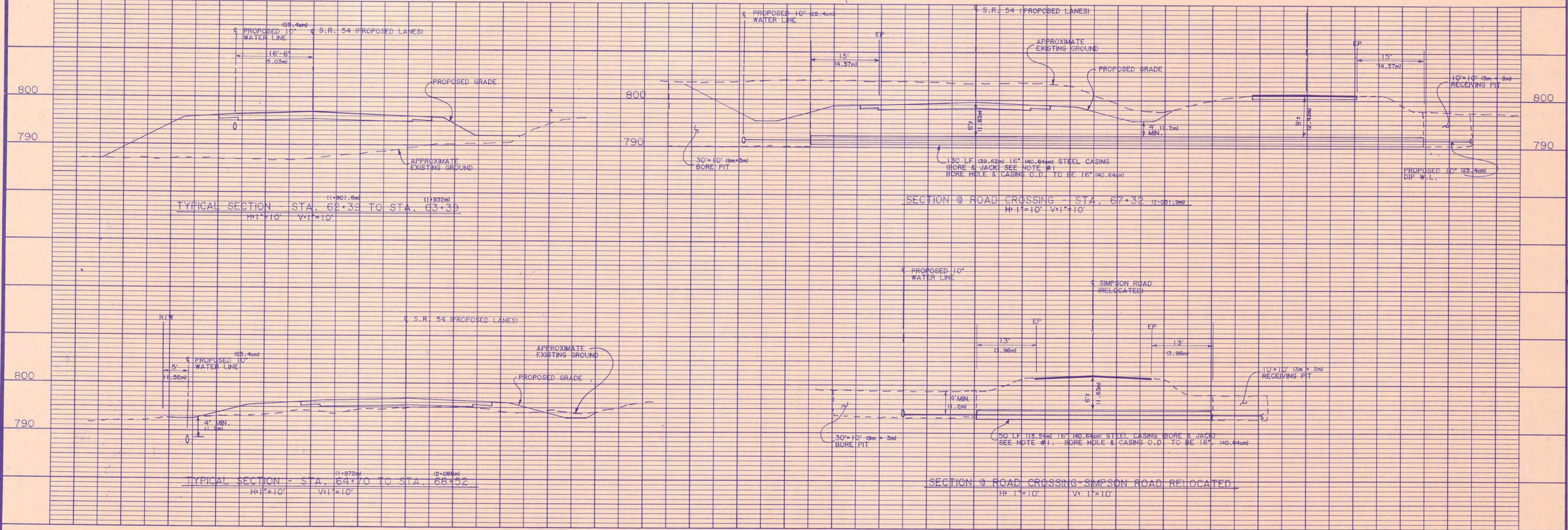


SCALE	1"=50'
DATE	7-1-97
FILE NO.	35164
DESIGN	
DRAWN	DMM
CHECK	DWJ
APPROVED	JEM
BY	
DESCRIPTION	
REV. NO.	
DATE	

CRABAPPLE BOOSTER PUMP STATION
PLANS & SECTIONS
S.R. 54 WATER LINE RELOCATION



- NOTES:
1. SHOULD WATERLINE INSTALLATION PRECEDE THE PAVING OF THE NEW AND RELOCATED ROADS, STEEL CASING SHALL BE INSTALLED IN OPEN TRENCH RATHER THAN BY BORE & JACK METHOD. PAYMENT FOR STEEL CASING WILL BE AS BID FOR METHOD OF INSTALLATION ACTUALLY USED.
 2. CONTRACTOR SHALL COORDINATE ALL WORK WITH GEORGIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE CONTRACTORS.

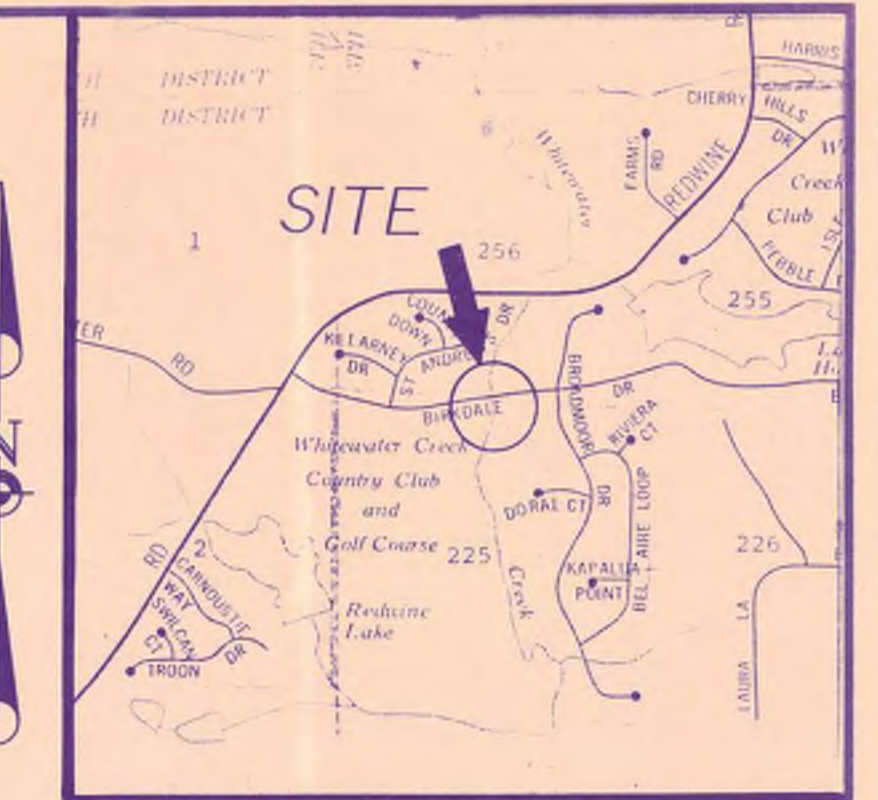


SCALE	DATE	FILE NO.	SHEET NO.
1\"/>			

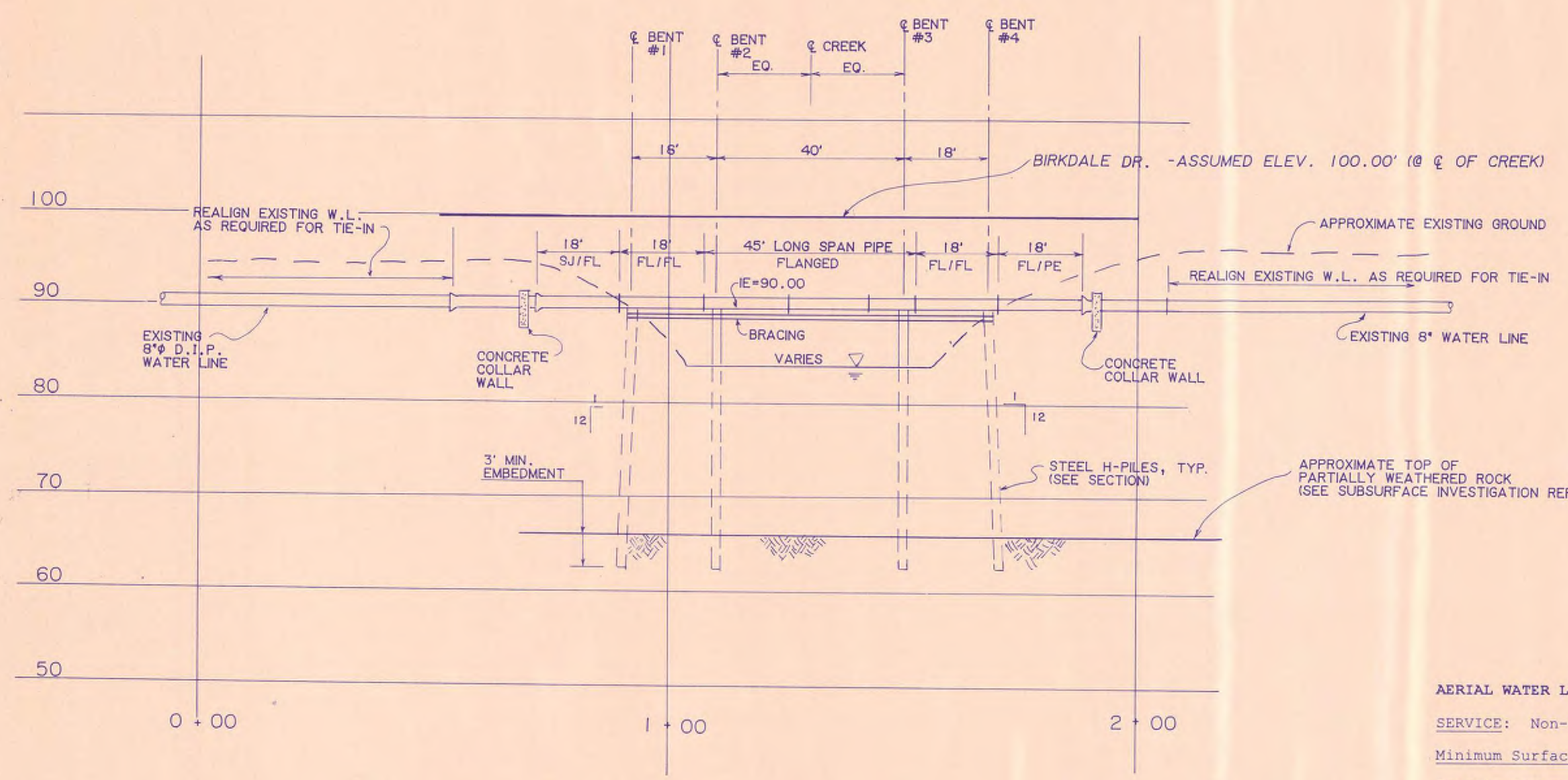
CRABAPPLE BOOSTER PUMP STATION
 PLAN & SECTIONS
 S.R. 54 WATER LINE RELOCATION

Mallett & Associates

REPRODUCTION 315234



LOCATION MAP



PROFILE - AERIAL CREEK CROSSING, WHITEWATER CREEK @ BIRKDALE DRIVE

H: 1" = 20' V: 1" = 10'

AERIAL WATER LINE PAINTING SCHEDULE:

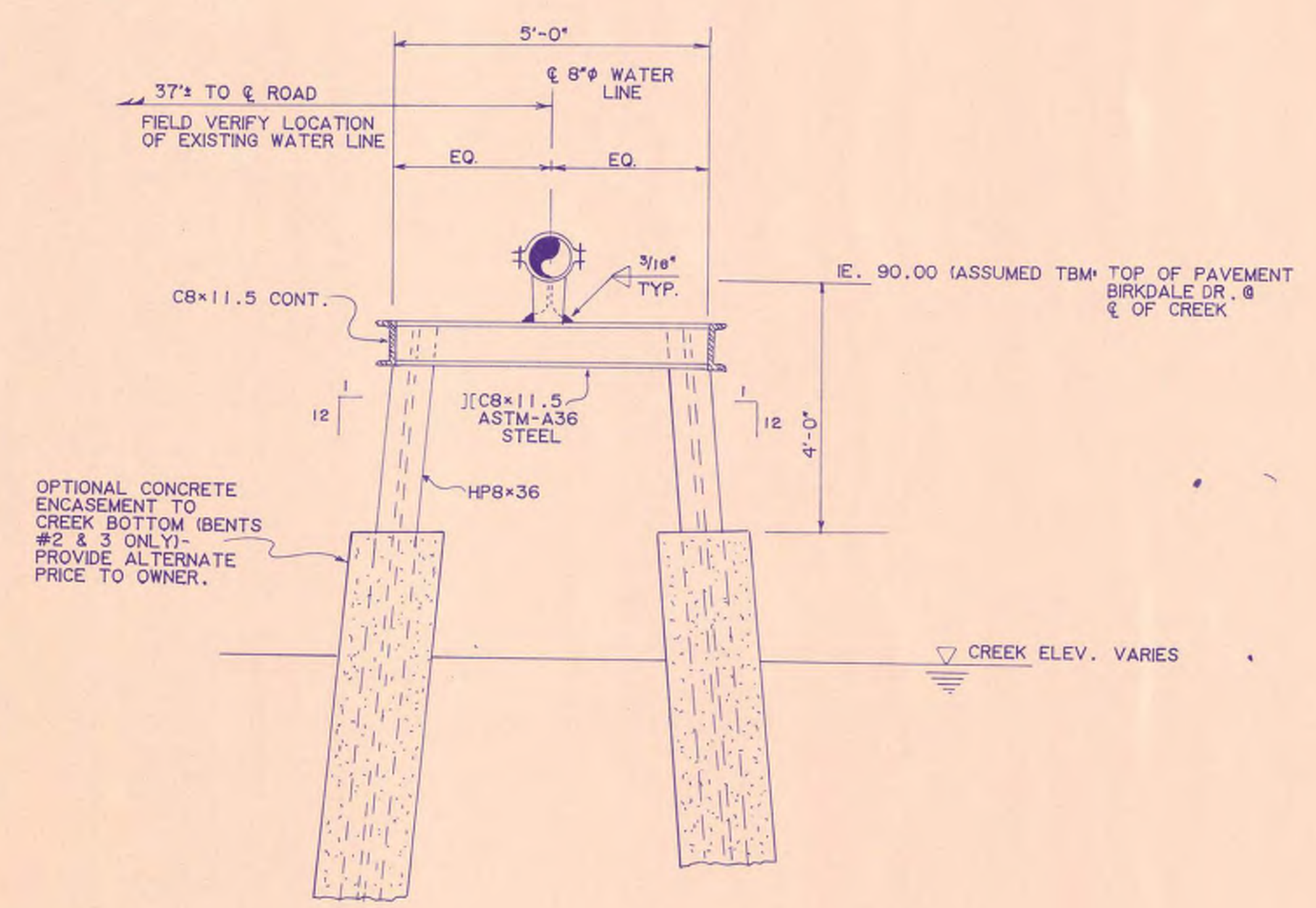
SERVICE: Non-submerged ferrous metal
Minimum Surface Preparation: SSPC-SP6

Generic System Type: Aliphatic Polyurethane

Coat No.	Koppers DFT/Product	Porter DFT/Product
1	2.5/34C GOLD	2.0/#4300
2	2.5/HI-GARD	5.0/#4351
3	2.0/134 H.S.	1.5/#46

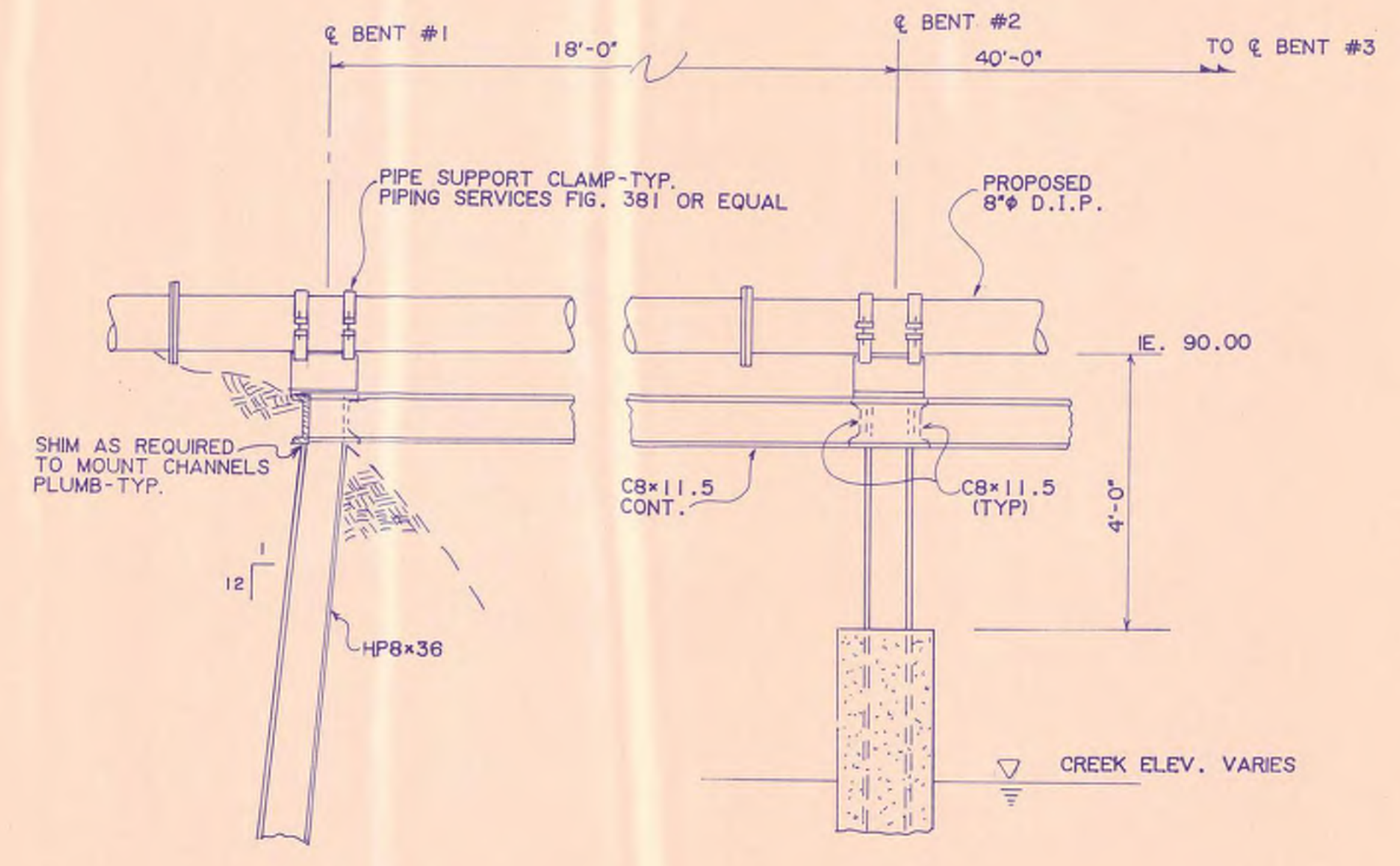
GENERAL NOTES:

- PILING TO BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 250 AND SECTION 855.
- PILING SHALL BE DRIVEN IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD 520, THROUGH THE ALLUVIUM, INTO THE RESIDUAL SOILS AND THEN TO EITHER OF THE FOLLOWING:
A. REFUSAL, OR
B. 5-TON PILE CAPACITY AND 3' MINIMUM EMBEDMENT INTO PARTIALLY WEATHERED ROCK.
- DRIVING SHOES SHALL BE UTILIZED TO FACILITATE REQUIRED EMBEDMENT INTO PARTIALLY WEATHERED ROCK LAYER.
- ALL PILES SHALL BE COATED WITH A 2P COATING IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATION 520.04.
- EXISTING UTILITIES SHOWN ARE APPROXIMATE AND DO NOT NECESSARILY REPRESENT ALL UTILITIES. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. NO ADDITIONAL COMPENSATION WILL BE MADE FOR DAMAGE AND REPAIR TO EXISTING UTILITIES OR FOR CONFLICTS/DELAYS WHICH ARISE FROM LOCATION OF EXISTING UTILITIES.
- CONCRETE TO BE 3000 PSI MINIMUM.
- ALL STEEL TO BE ASTM A-36. ALL WELDS TO BE MINIMUM 3/16" SEAL WELDS.
- FLANGED PIPE TO BE DUCTILE IRON, CLASS 53, IN ACCORDANCE WITH ANSI A21.51.
- FLANGES TO BE 125 LB. STD., DUCTILE IRON.
- ALL OTHER DUCTILE IRON PIPE TO BE PRESSURE CLASS 300 IN ACCORDANCE WITH ANSI A21.51.
- ALL PIPE SHALL HAVE CEMENT LINING IN ACCORDANCE WITH ANSI A21.4 OR AWWA C205.
- BURIED PIPE SHALL HAVE EXTERIOR BITUMINOUS COATING.
- EXPOSED PIPE SHALL BE PRIMED AT FACTORY.
- CONTRACTOR SHALL REMOVE EXISTING TIMBER PILES AND DAMAGED 8" D.I.P.
- ALL DISTURBED AREAS SHALL BE GRASSED UPON COMPLETION. TEMPORARY GRASSING SHALL BE USED UNTIL PERMANENT GRASSING CAN BE ESTABLISHED.
- EROSION CONTROL MEASURES SHALL INCLUDE SILT FENCE, HAY BALES, AND RIP-RAP AS NECESSARY TO MINIMIZE SILTATION AND EROSION THROUGHOUT THE WORK.



SECTION @ SUPPORT PIER

1/2" = 1'-0"



ELEVATION VIEW

1/2" = 1'-0"

Mallett & Associates, Inc.

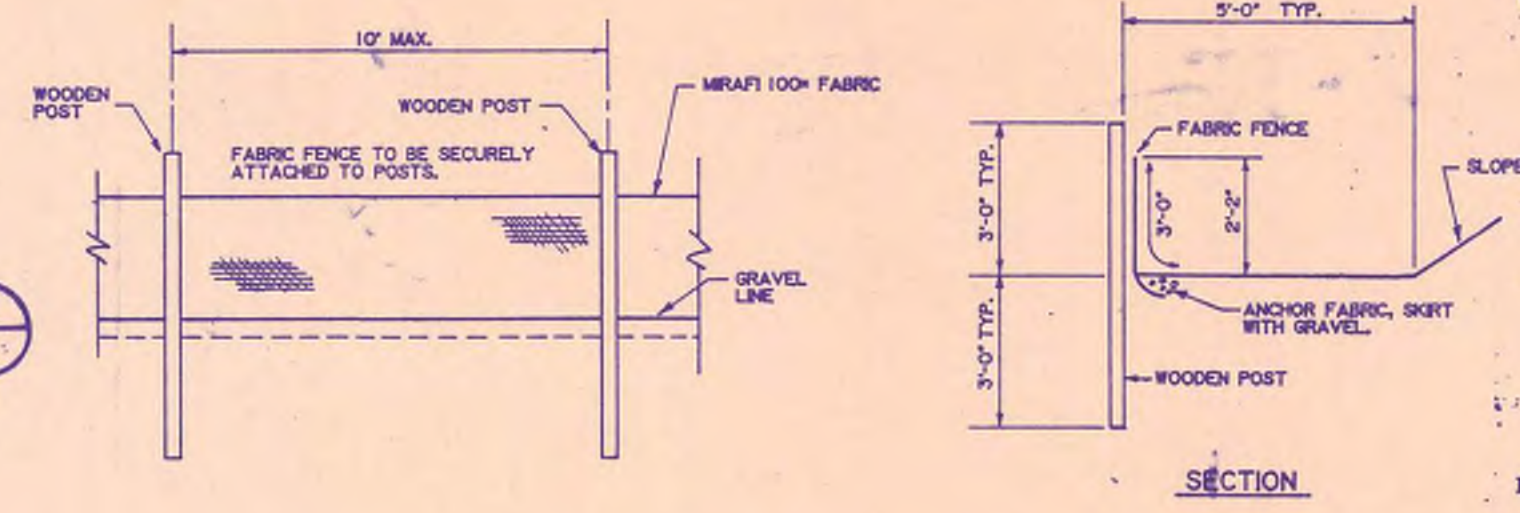
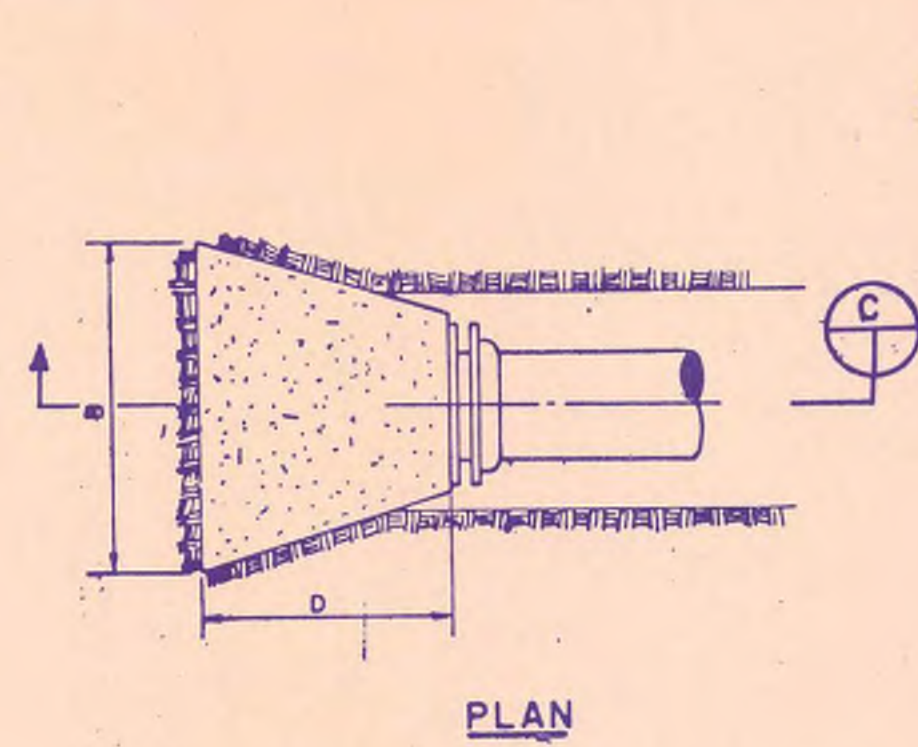
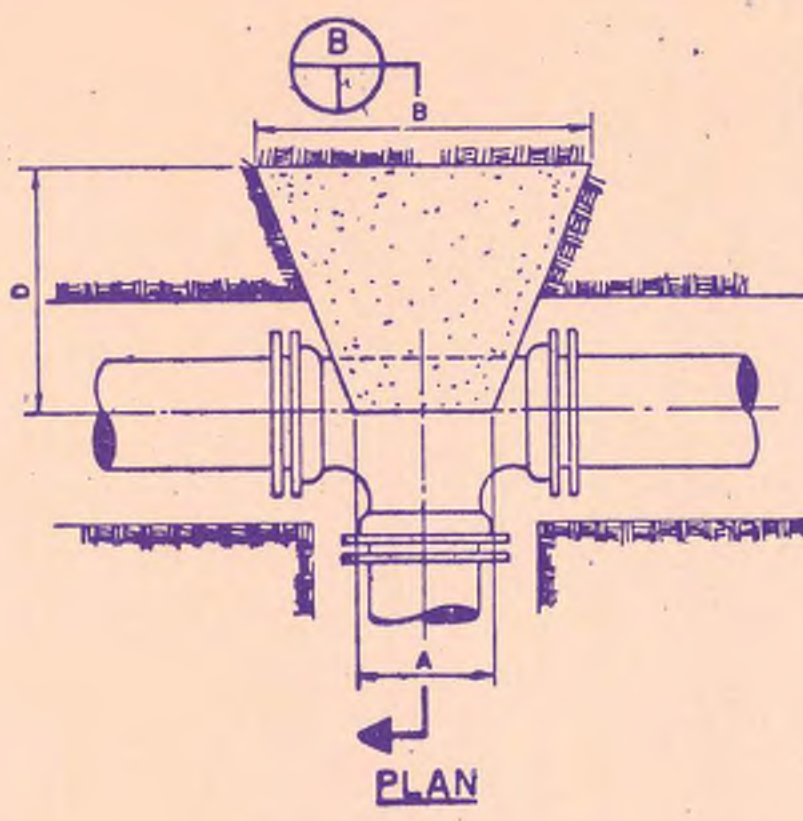
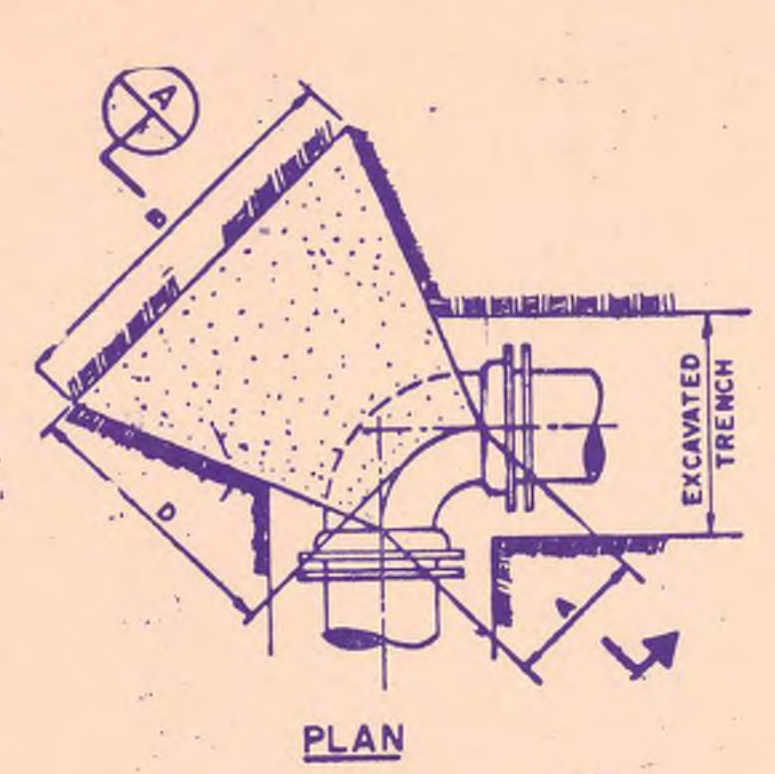
CRABAPPLE BOOSTER PUMP STATION

AERIAL CROSSING, WHITEWATER CREEK @ BIRKDALE DRIVE

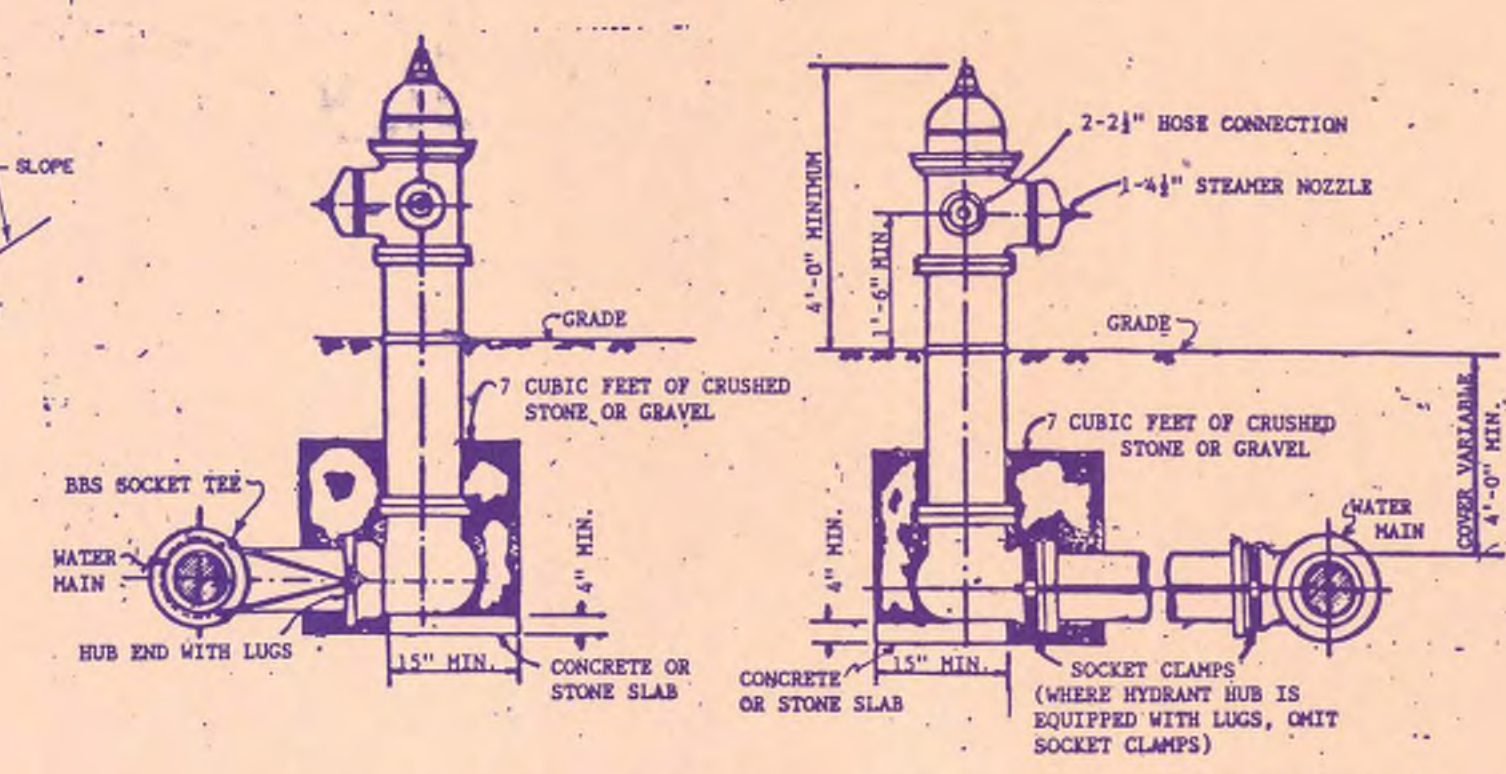
DESIGN	SCALE
DWJ	AS NOTED
DRAWN	DATE
DMM	7-1-97
CHECK	FILE NO.
DWJ	96164
APPROVED	SHEET NO.
JEM	22

REV. NO.	DATE	DESCRIPTION	BY	APP'D BY	STATE

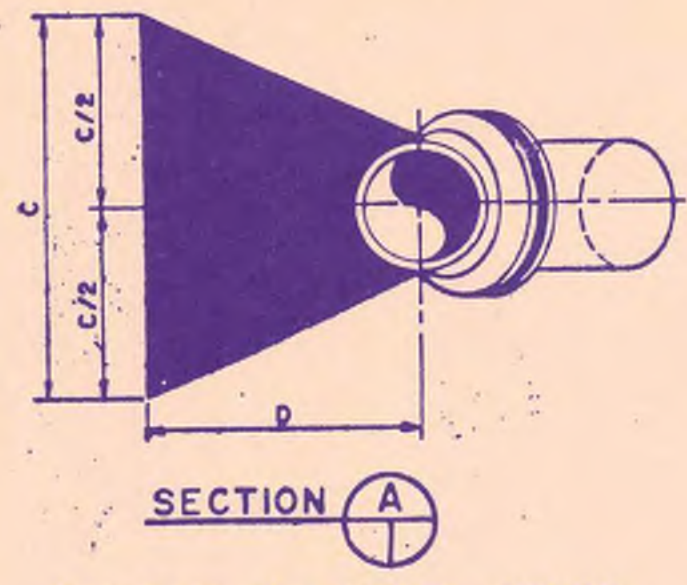
BRIDGE PRODUCTS 211293



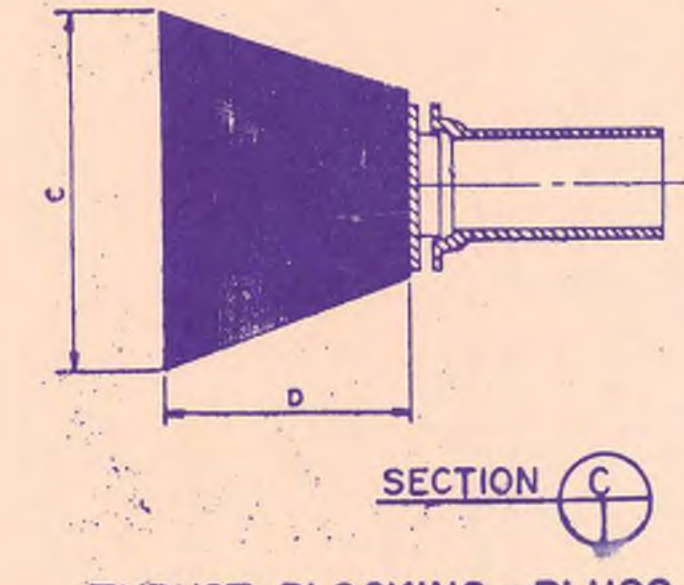
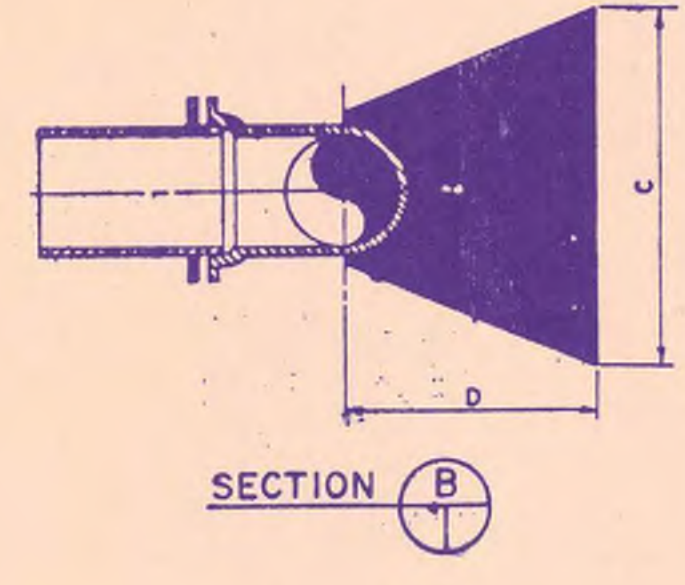
SILT FENCE DETAILS
N.T.S.



AUXILIARY VALVE NOT SHOWN FOR CLARITY.



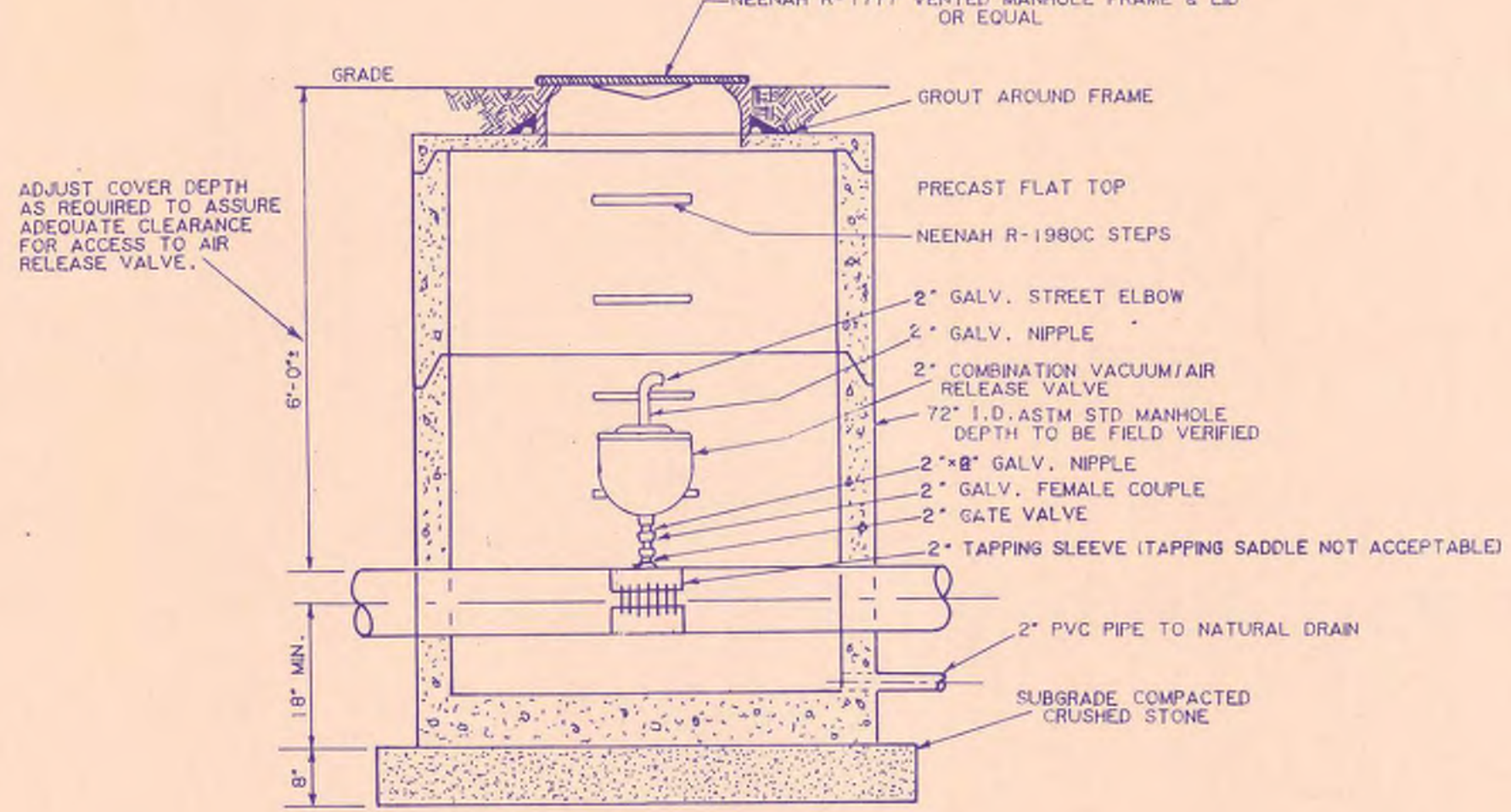
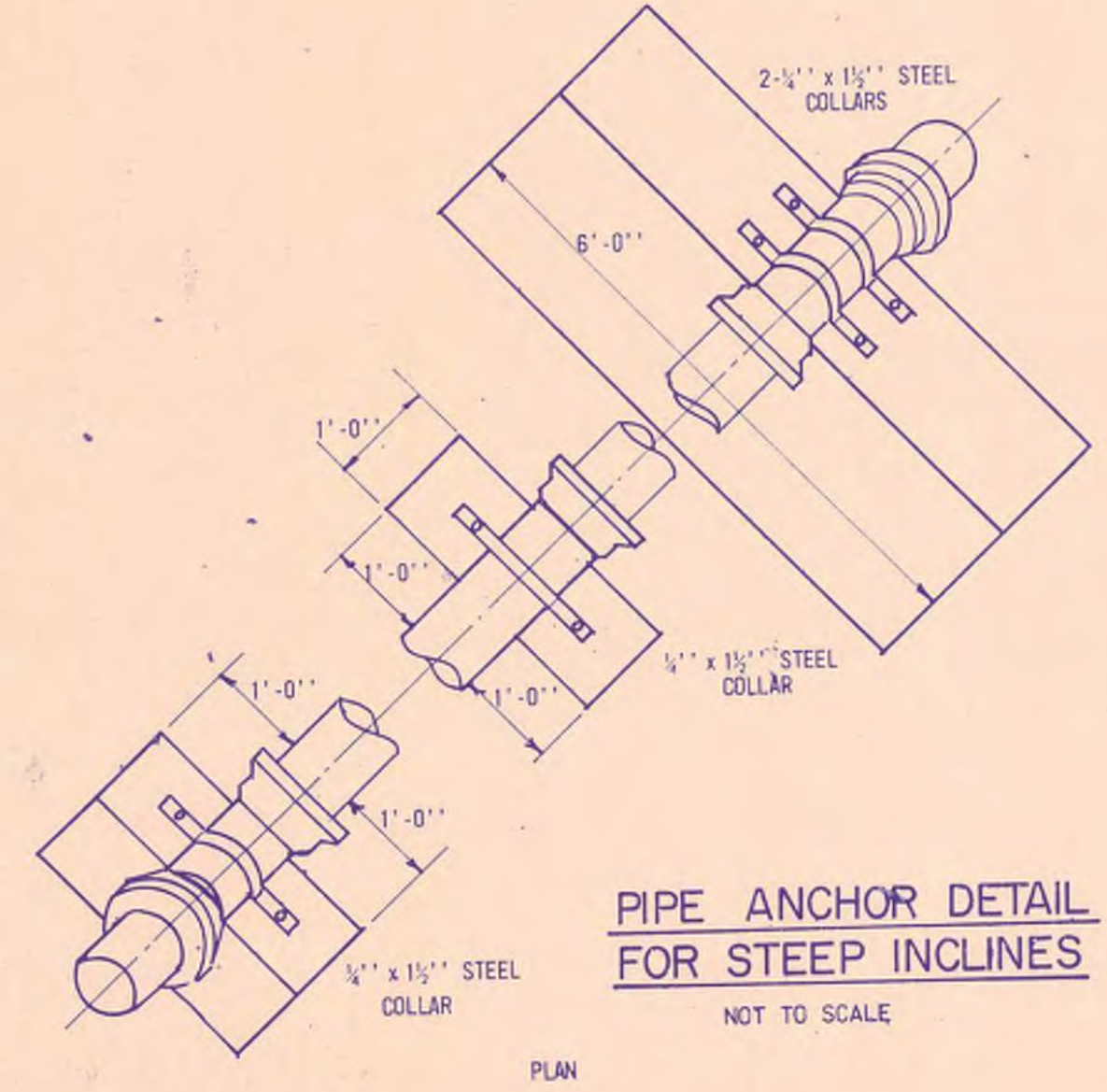
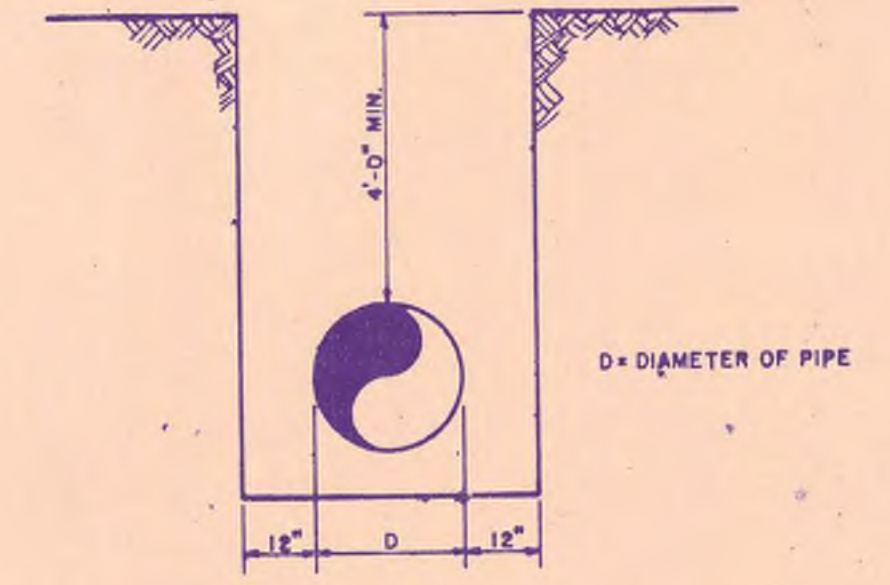
THRUST BLOCKING—BENDS



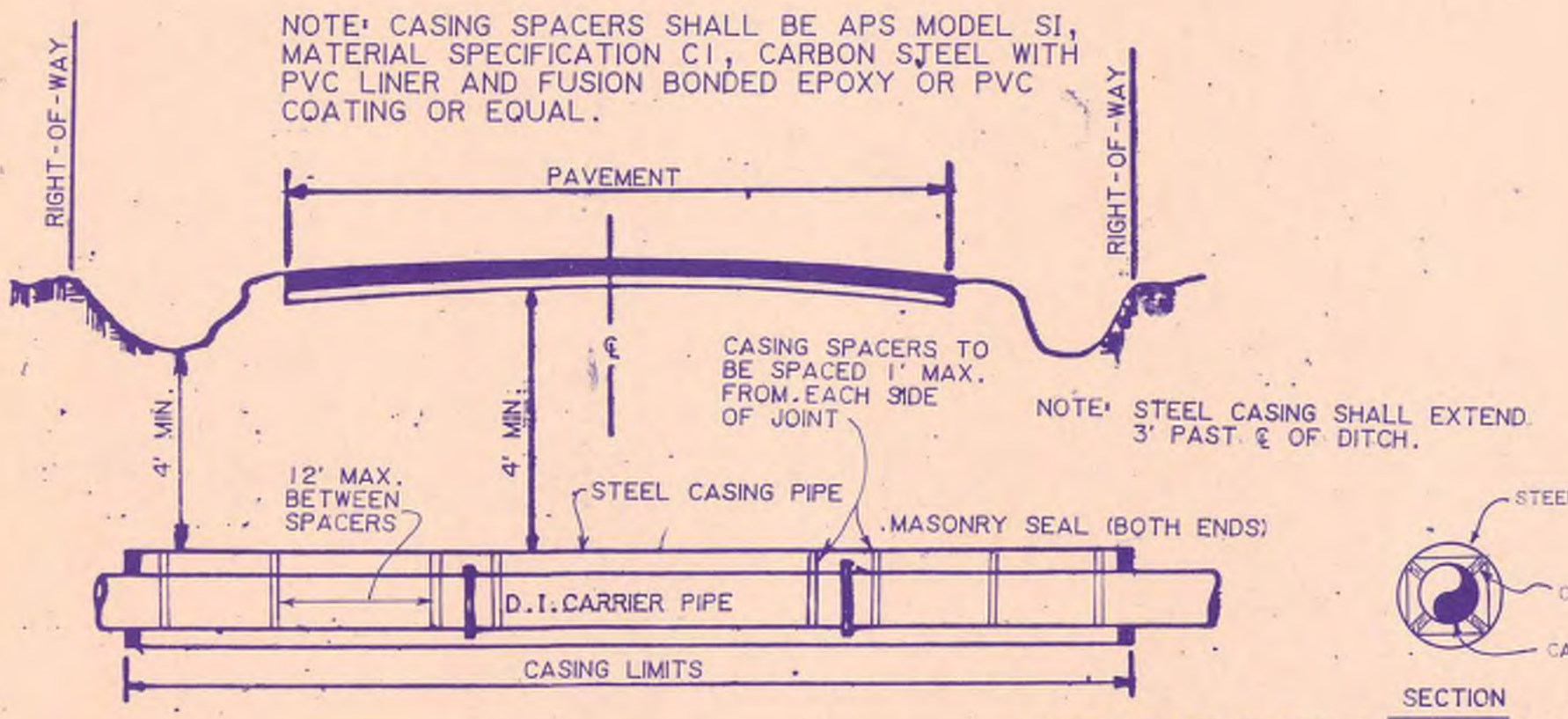
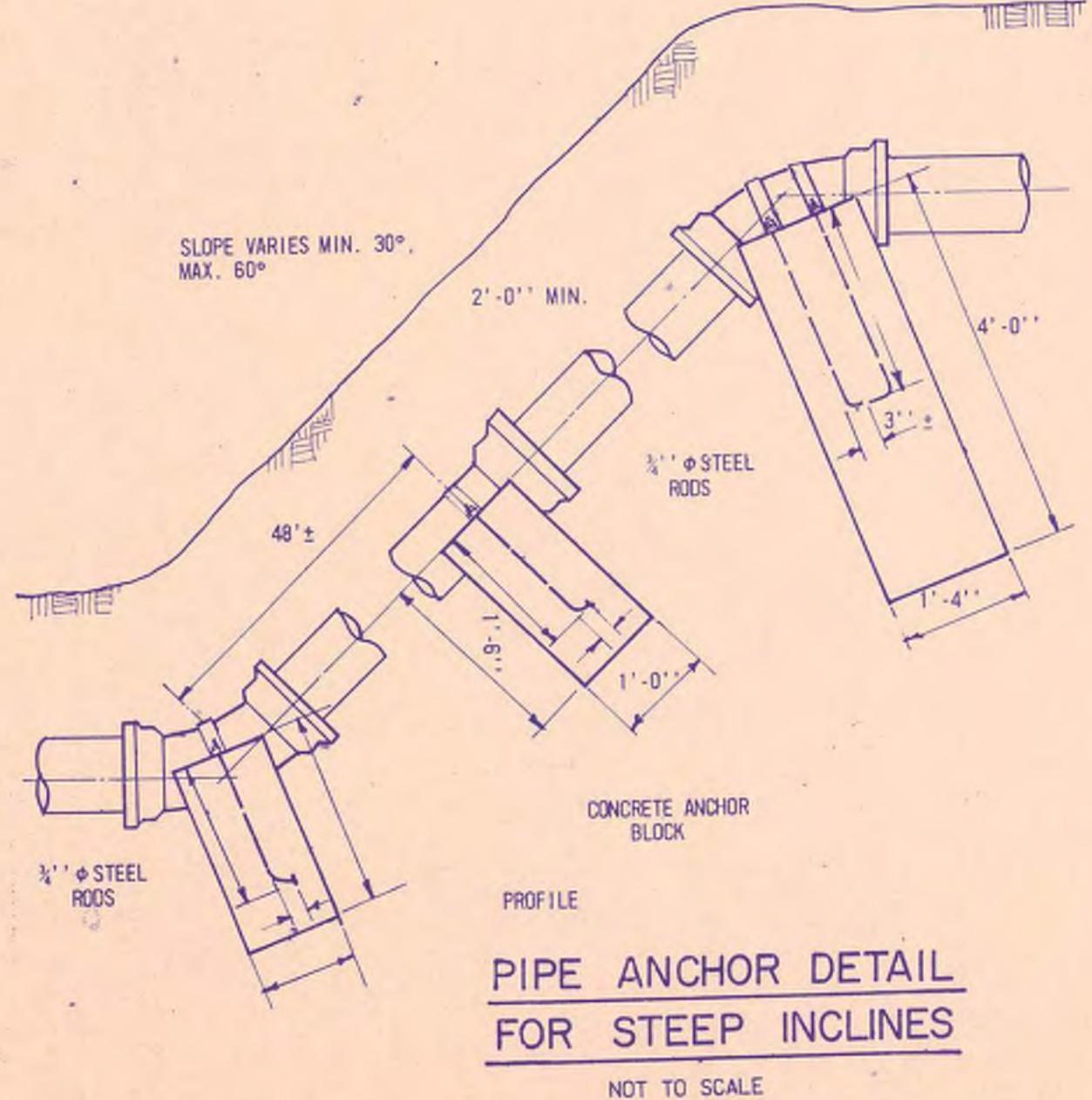
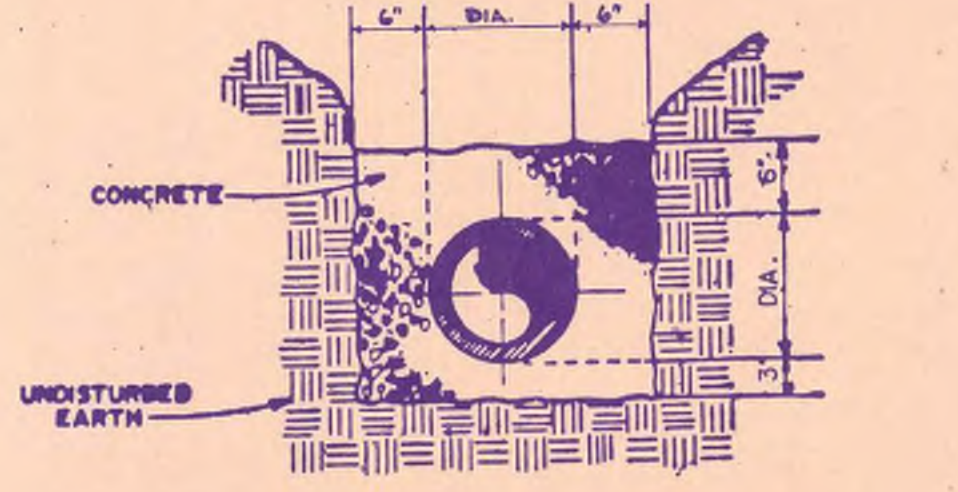
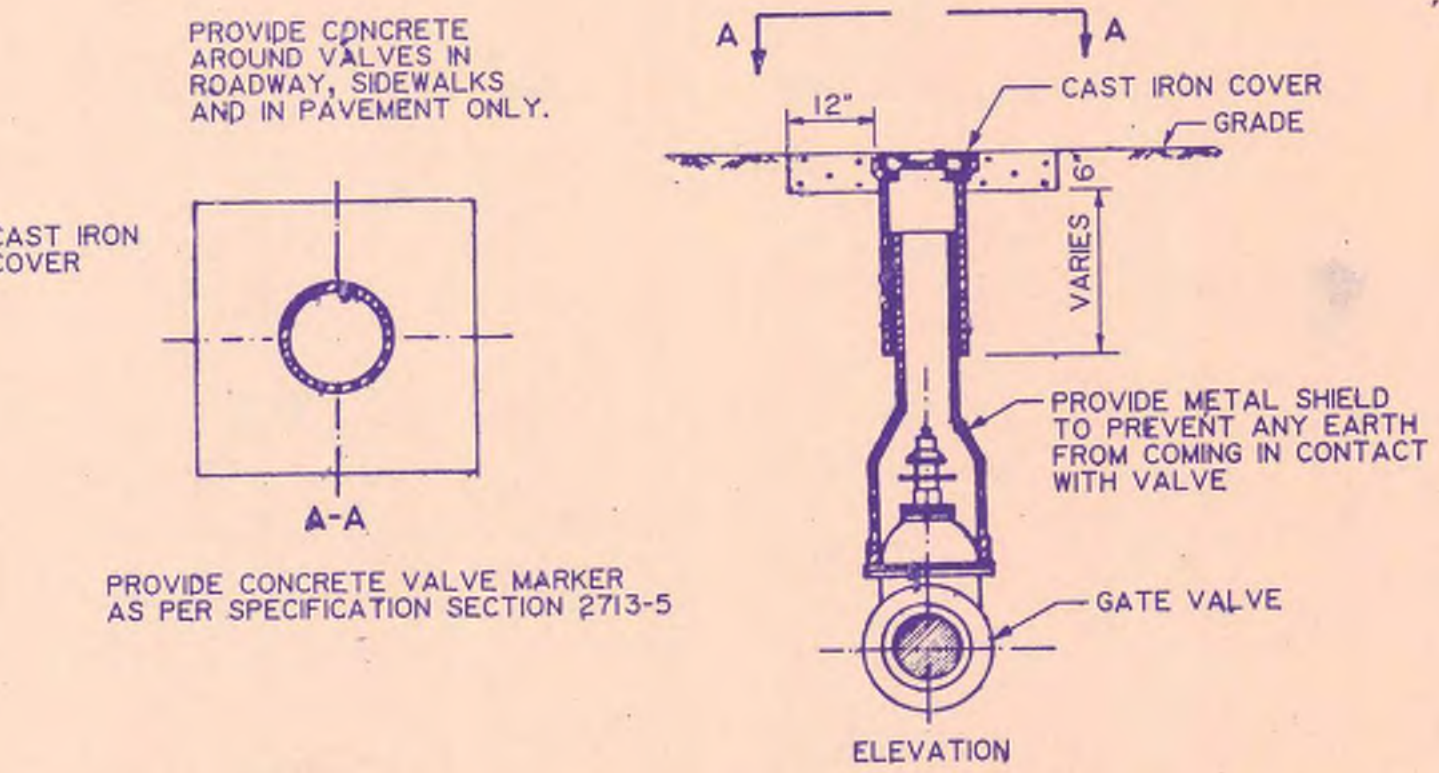
THRUST BLOCKING—PLUGS

PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND				11 1/4° BEND				TEE OR PLUG				
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
36"	3'-0"	10'-6"	10'-4"	6'-6"	2'-0"	7'-8"	7'-8"	5'-0"	3'-7"	5'-0"	6'-0"	2'-9"	3'-7"	4'-0"	3'-9"	2'-6"	3'-0"	8'-9"	8'-9"	5'-0"	
30"	2'-9"	9'-0"	9'-3"	5'-9"	1'-6"	6'-9"	6'-9"	3'-9"	1'-10"	4'-9"	5'-0"	2'-6"	1'-11"	3'-6"	3'-6"	2'-9"	2'-9"	7'-6"	7'-9"	4'-9"	
24"	2'-7"	7'-3"	7'-3"	4'-6"	1'-3"	5'-3"	5'-3"	3'-3"	1'-8"	3'-9"	4'-0"	2'-0"	1'-9"	2'-9"	2'-9"	2'-3"	2'-6"	6'-0"	6'-3"	3'-9"	
20"	2'-1"	6'-0"	6'-3"	3'-9"	1'-0"	4'-6"	4'-6"	2'-6"	1'-5"	3'-3"	3'-3"	1'-6"	1'-6"	2'-3"	2'-6"	2'-0"	2'-4"	5'-0"	5'-3"	3'-3"	
18"	1'-11"	5'-6"	5'-6"	3'-6"	1'-0"	4'-0"	4'-3"	2'-6"	1'-5"	2'-9"	3'-0"	1'-6"	1'-4"	2'-0"	2'-3"	1'-9"	1'-2"	4'-6"	4'-9"	3'-0"	
16"	1'-9"	5'-0"	5'-0"	3'-3"	0'-11"	3'-6"	3'-9"	2'-3"	1'-2"	2'-6"	2'-9"	1'-3"	1'-3"	1'-9"	2'-0"	1'-6"	1'-6"	4'-0"	4'-6"	2'-6"	
14"	1'-7"	4'-3"	4'-3"	2'-8"	0'-10"	3'-0"	2'-6"	2'-0"	1'-1"	2'-3"	2'-6"	1'-3"	1'-2"	1'-9"	1'-3"	1'-6"	1'-6"	3'-6"	3'-9"	2'-6"	
12"	1'-4"	3'-6"	3'-9"	2'-6"	0'-10"	2'-6"	3'-0"	2'-0"	1'-1"	2'-0"	2'-0"	1'-0"	1'-2"	1'-6"	1'-6"	1'-3"	1'-3"	3'-0"	3'-3"	2'-3"	
10"	1'-3"	3'-0"	3'-3"	2'-3"	0'-9"	2'-3"	2'-6"	1'-6"	1'-0"	1'-9"	1'-9"	1'-0"	1'-0"	1'-3"	1'-3"	1'-0"	1'-3"	2'-6"	2'-9"	2'-0"	
8"	1'-0"	2'-6"	2'-6"	1'-9"	0'-7"	1'-9"	2'-0"	1'-3"	0'-10"	1'-3"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-0"	2'-3"	1'-6"	
6"	0'-11"	1'-9"	2'-0"	1'-6"	0'-7"	1'-6"	1'-6"	1'-3"	1'-3"	0'-9"	0'-9"	0'-6"	0'-6"	0'-9"	0'-11"	1'-6"	1'-6"	1'-9"	1'-9"	1'-3"	
4"	0'-9"	1'-3"	1'-6"	1'-3"	0'-5"	1'-6"	1'-0"	0'-9"	0'-7"	1'-0"	1'-0"	0'-7"	0'-6"	0'-6"	0'-9"	0'-10"	1'-0"	1'-3"	1'-3"	1'-0"	

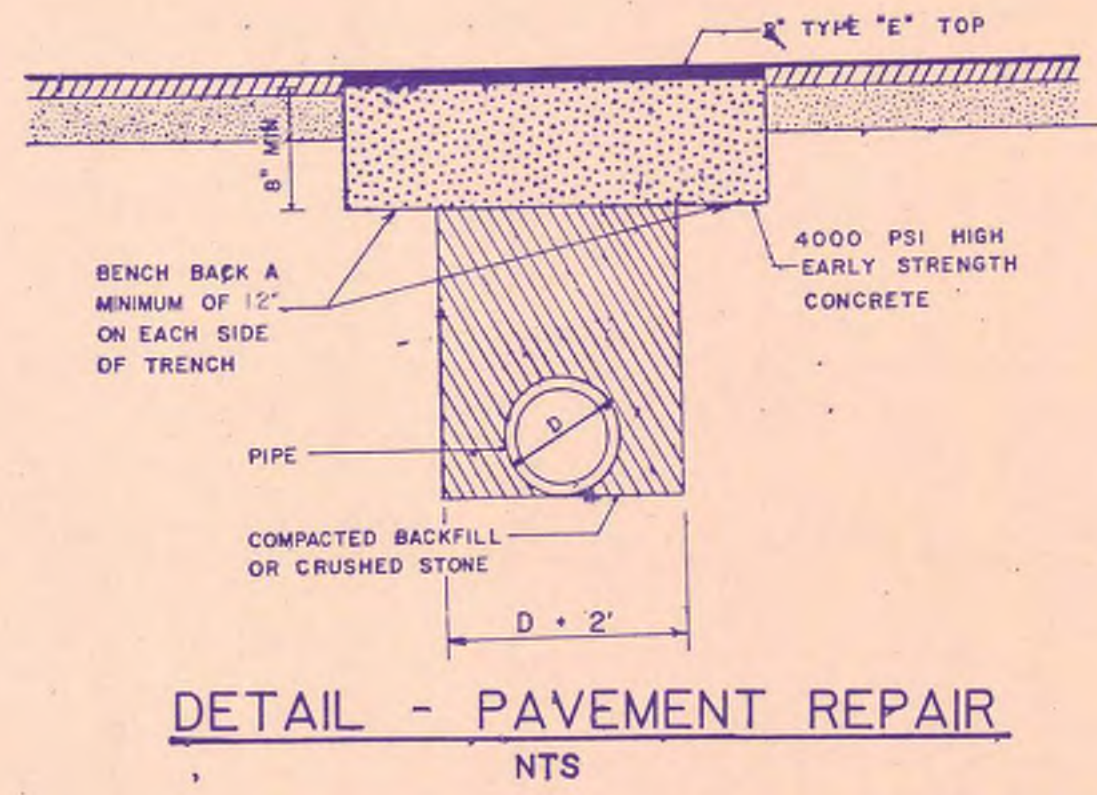
NOTES:
 1. THRUST BLOCKING TO BE 4000 PSI CONCRETE.
 2. DIMENSIONS CALCULATED USING A SOIL LOAD BEARING CAPACITY OF 2000 PSF. IF SOIL BEARING CAPACITY IS FOUND TO BE LESS THAN 2000 PSF, THE ENGINEER CAN INCREASE THESE DIMENSIONS.
 3. THRUST BLOCKING SHALL BEAR AGAINST UNDISTURBED SOIL.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE BLOCKING OF ALL PRESSURE LINES AS REQUIRED BY ACTUAL CONDITIONS. ABOVE REQUIREMENTS ARE MINIMUM.
 5. BLOCKING SHALL BE FURNISHED AS REQUIRED AT NO ADDITIONAL COST.



NOTE: ALL PIPING, FITTINGS, VALVES ETC. TO BE SUITABLE FOR 150 PSI SERVICE.



NOTE: SHOULD OUTSIDE DIAMETER OF SUPPLIED RESTRAINED JOINT PIPE OR FLANGES EXCEED THE INSIDE DIAMETER OF THE SPECIFIED CASING PIPE, CONTRACTOR SHALL SUPPLY & INSTALL ADEQUATELY SIZED CASING PIPE & SPACERS AT NO ADDITIONAL COST.

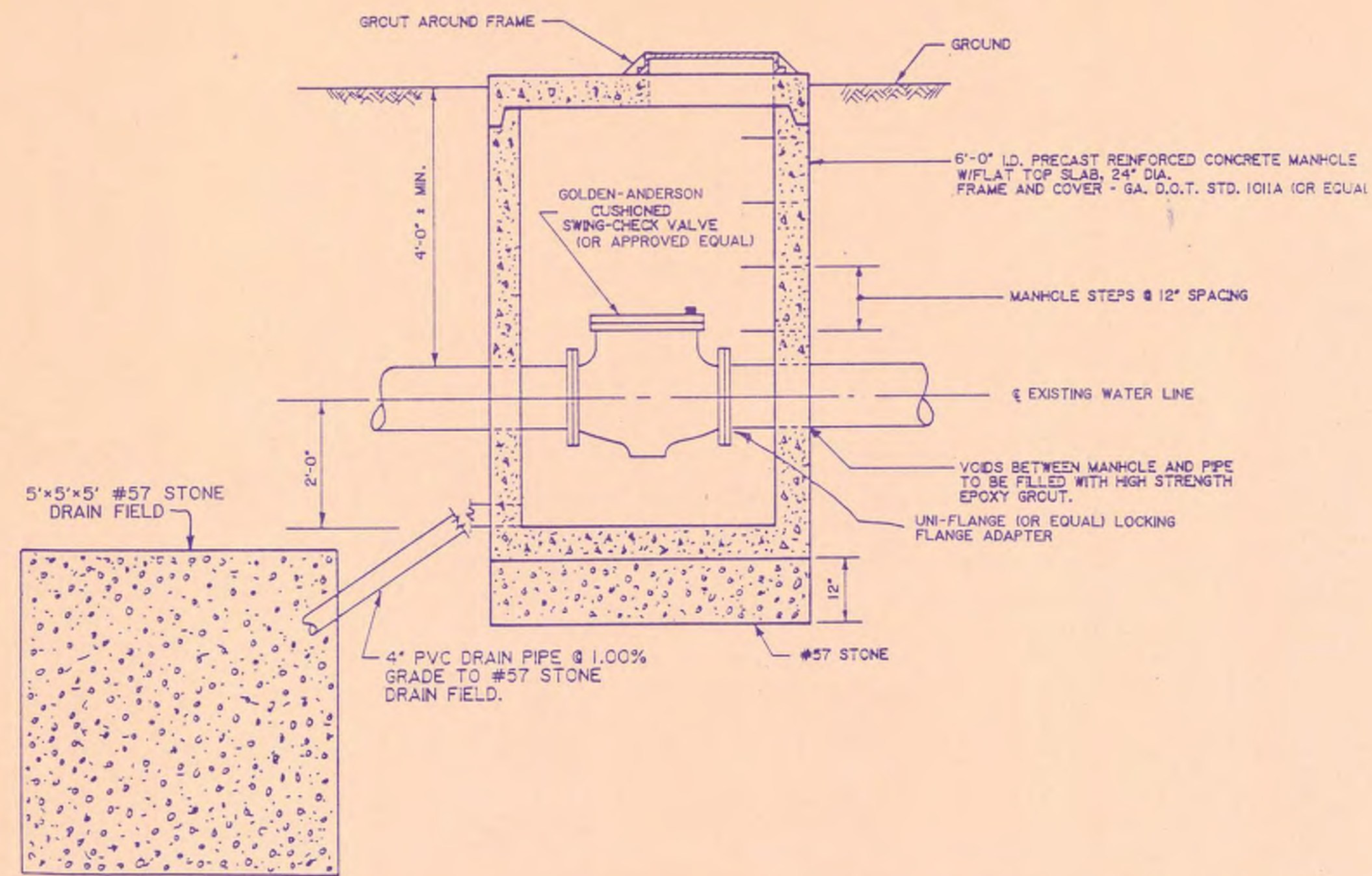


NOTES:
 1. WHEN TOP OF PIPE IS LESS THAN 12" BELOW SUBGRADE, FILL ENTIRE TRENCH WITH CONCRETE TO WITHIN 2" OF SURFACE.
 2. ALL STREET CUTS SHALL BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL CONCRETE HAS SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HOURS MINIMUM).

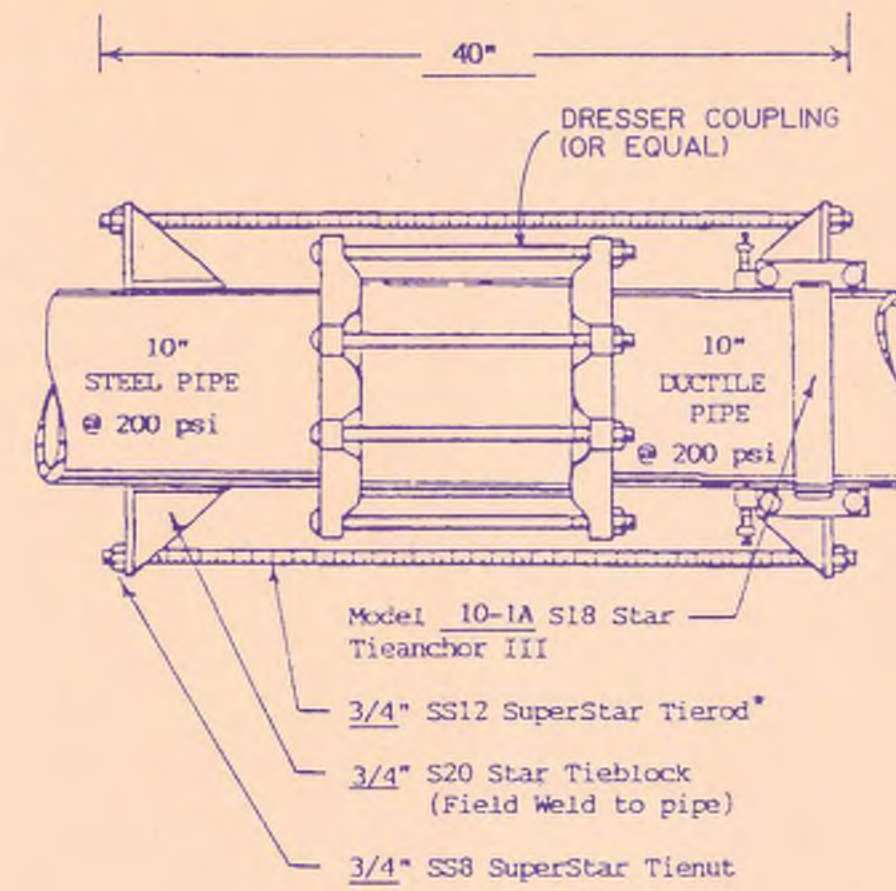
J. S. Mallett
Dan J. Gray

Mallett & Associates
 4315 CAMP HIGHLAND RD SMYRNA, GEORGIA 30080
 404 / 432-5634

CRABAPPLE BOOSTER PUMP STATION		DESIGN	SCALE
		DMM	AS NOTED
		DWJ	7-1-97
		JEM	96164
		JEM	SHEET NO. 23

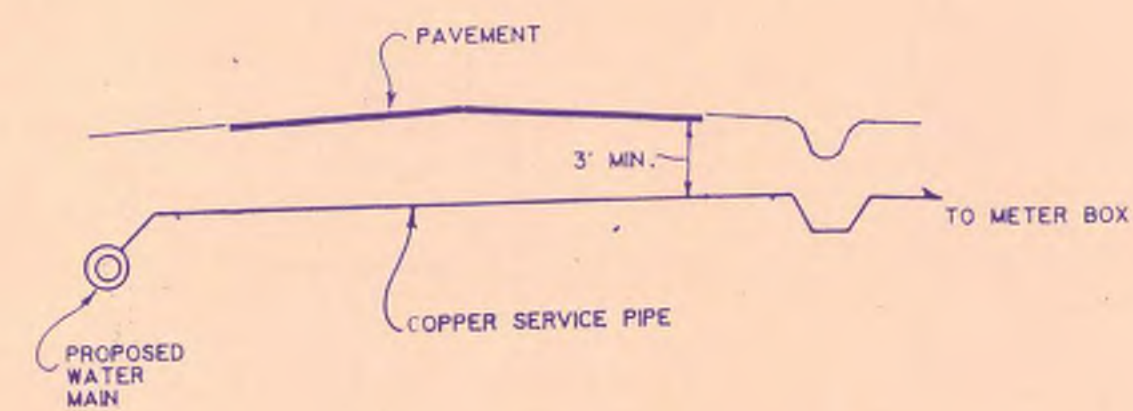


DETAIL-MANHOLE FOR CUSHIONED SWING-CHECK VALVE
1/2" = 1'-0"



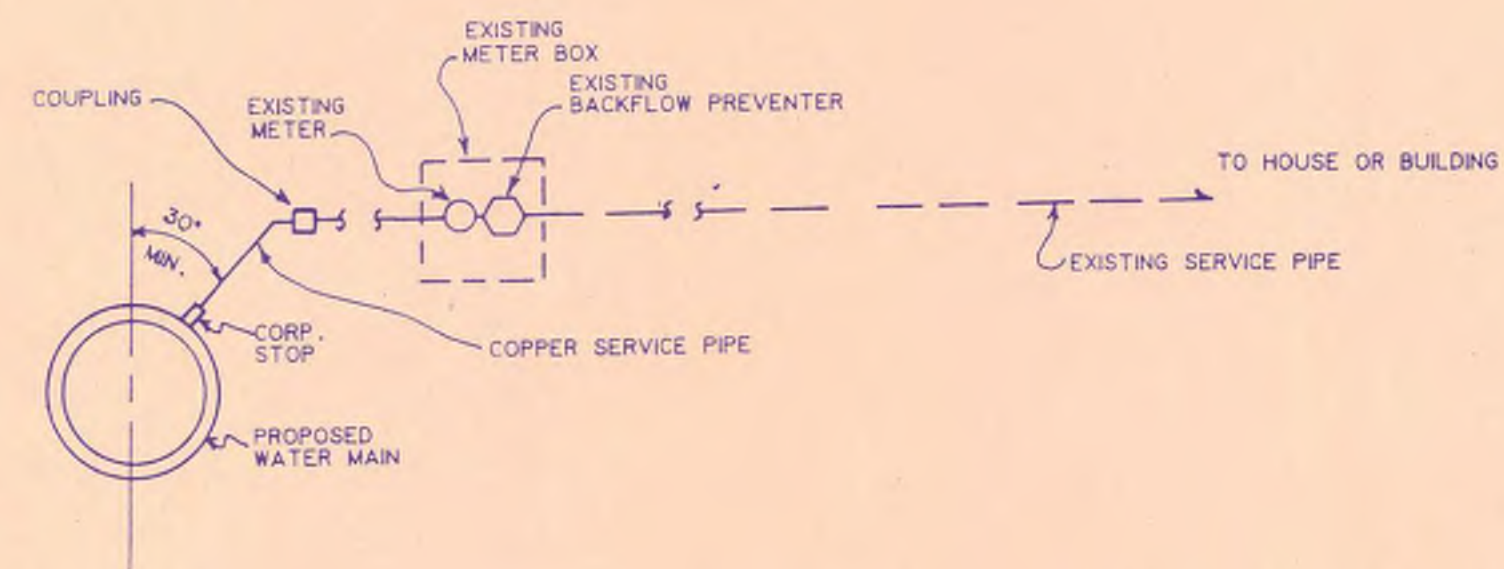
RESTRAINING MECHANISMS BY STAR NATIONAL PRODUCTS (OR APPROVED EQUAL)

DETAIL-RESTRAINED JOINT COUPLING ASSEMBLY
NTS



TYPICAL SERVICE INSTALLATION UNDER ROADWAY
NTS

NOTE: IN THE CASE WHERE TWO 3/4" DOMESTIC METERS ARE FED FROM ONE SERVICE PIPE, THE SERVICE PIPE SHALL BE 1 1/2" DIA. TO THE BRANCH.



TYPICAL SERVICE TIE-IN
NTS

Mallett & Associates, Inc.

CRABAPPLE BOOSTER PUMP STATION

DETAIL SHEET

DESIGN	SCALE				
	AS SHOWN				
DRAWN	DATE				
DMM	7-1-97				
CHECK	FILE NO.				
DWJ	96164				
APPROVED	SHEET NO.				
JEM	24				
REV. NO.	DATE	DESCRIPTION	BY	APP'D BY	STATE-