

NOTE:
PRESSURE REDUCING VALVES REQUIRED
ON SERVICE CONNECTIONS.



CRAB ORCHARD CHURCH ROAD

NOTE:
PRESSURE REDUCING VALVES REQUIRED
ON SERVICE CONNECTIONS.

EXISTING GRADE
24" R.C.P.
STA. 45+75

NOTE:
PRESSURE REDUCING VALVES REQUIRED
ON SERVICE CONNECTIONS.

BEGIN CLASS
150 PIPE

ELEV. 100'
6" 45° BEND
4" 2" RED.
2" 45° BEND

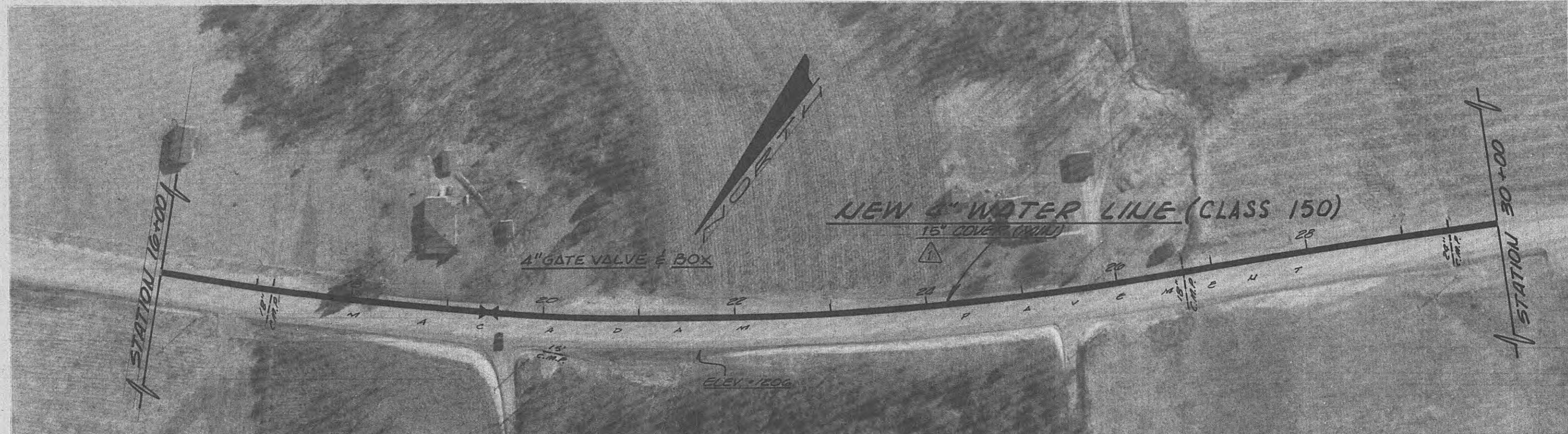
EW G WATER MAIN
(CLASS 150)
20" COVER (MIN.)

PUMP STA. 3

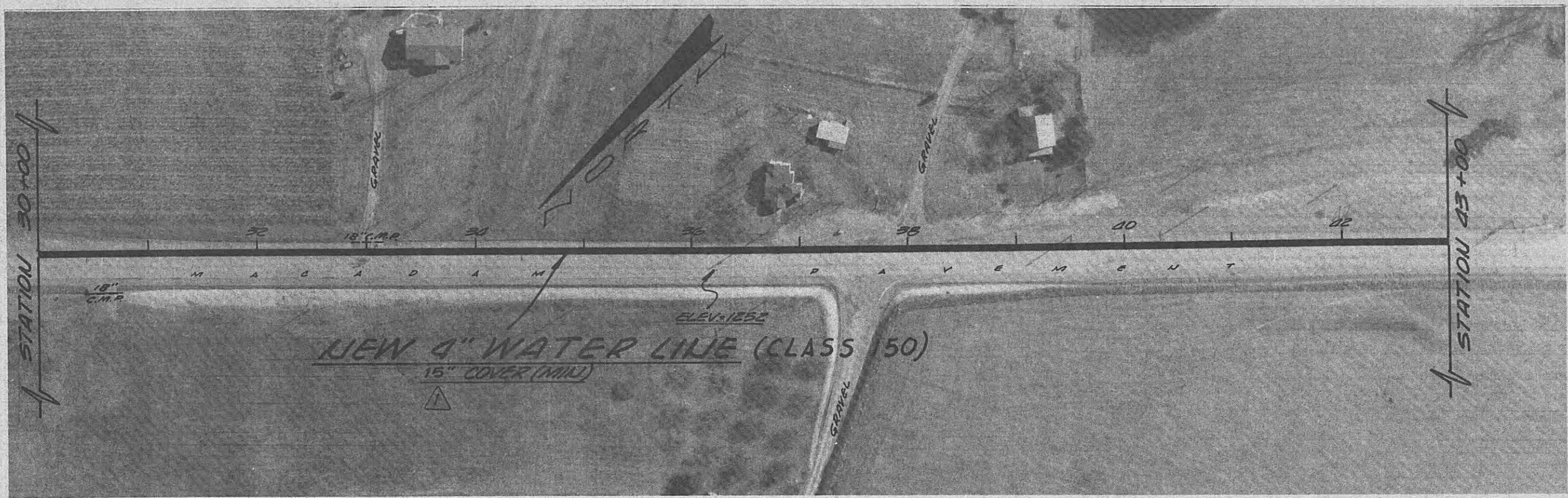
ELEV. 110'

6" 45° BEND

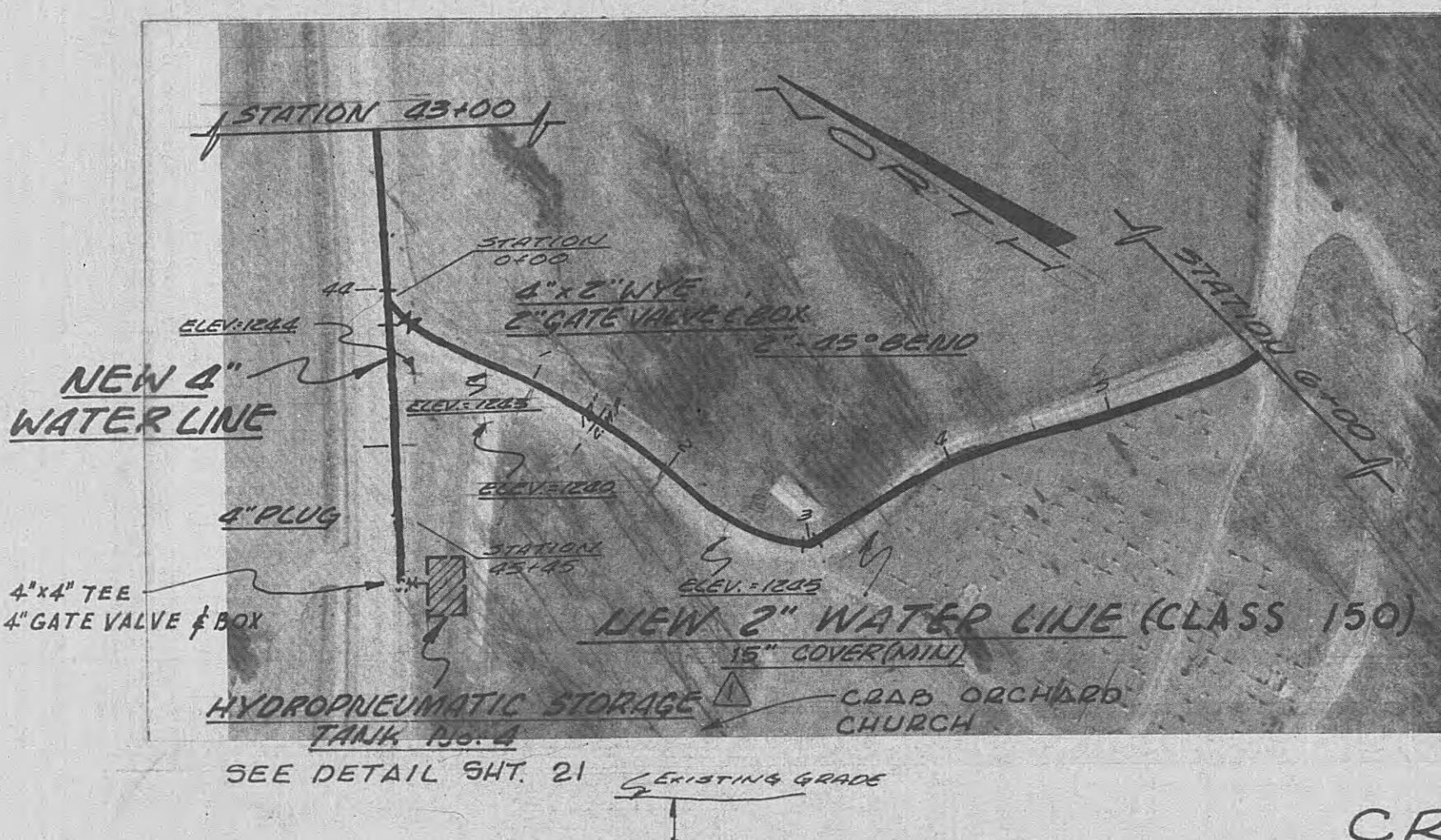
2" 45° BEND



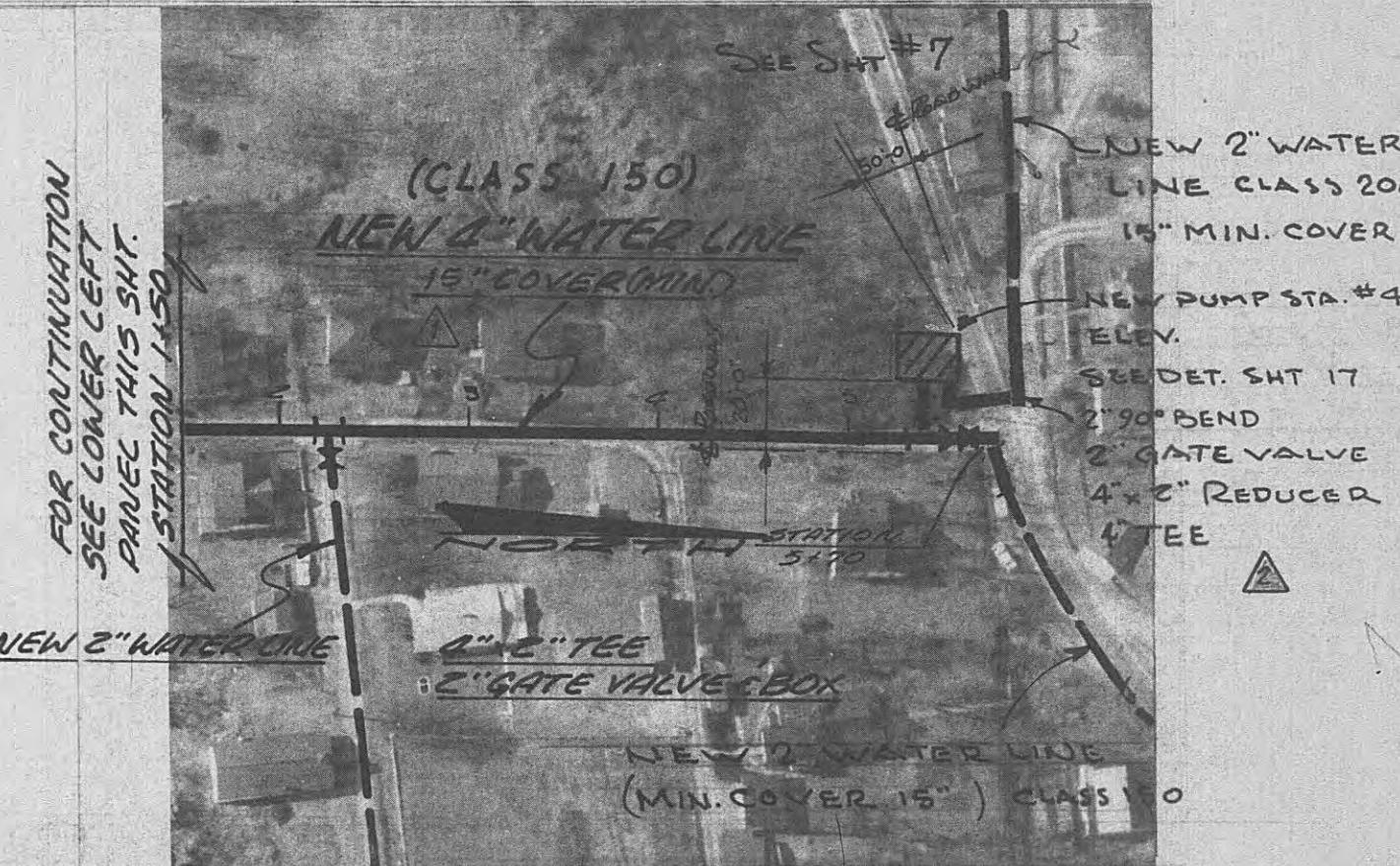
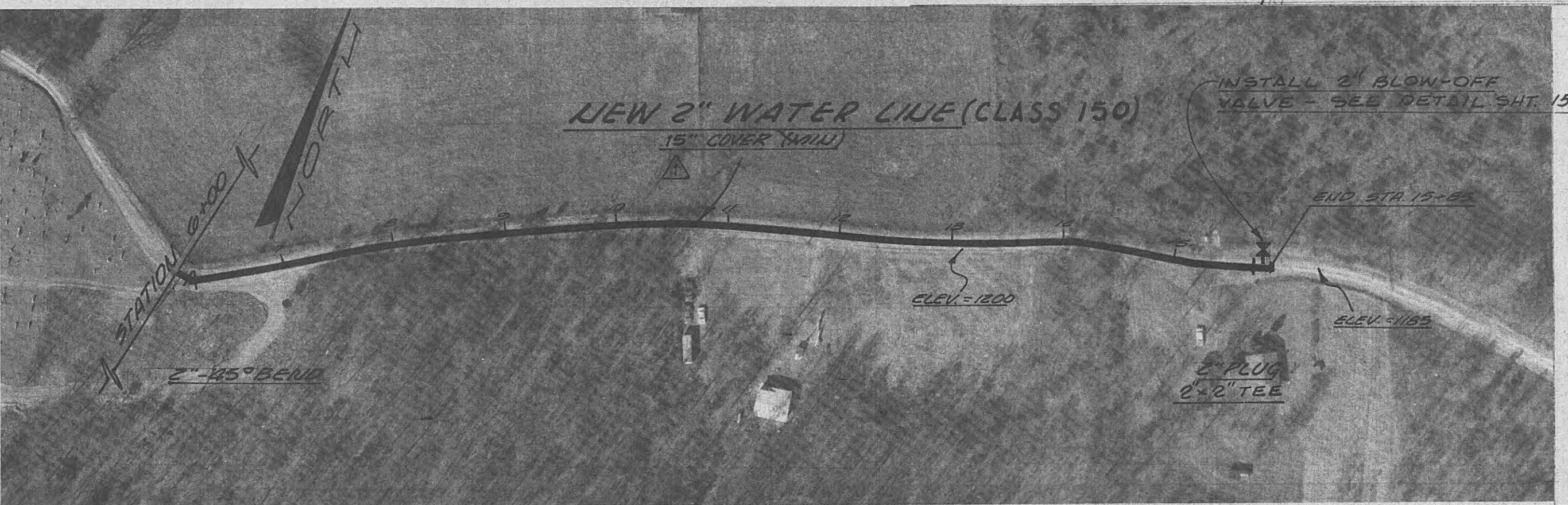
CRAB ORCHARD CHURCH ROAD



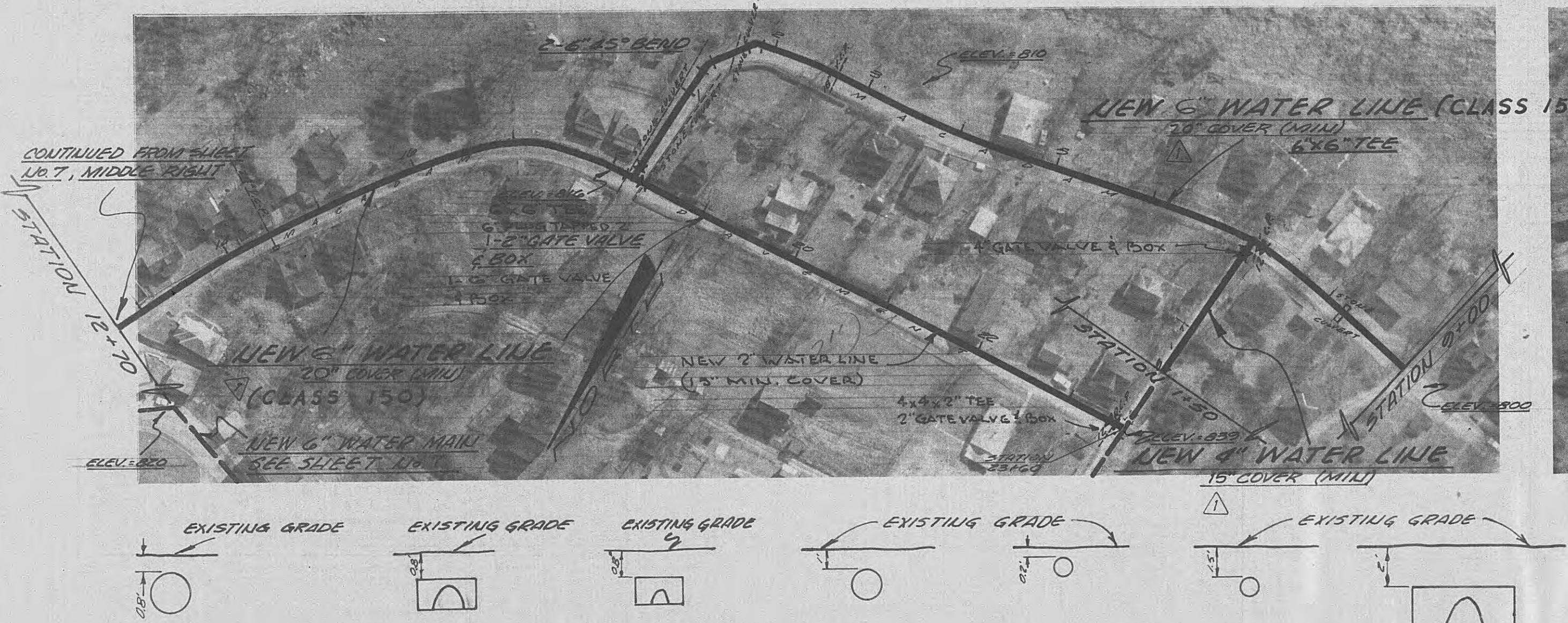
CRAB ORCHARD CHURCH ROAD



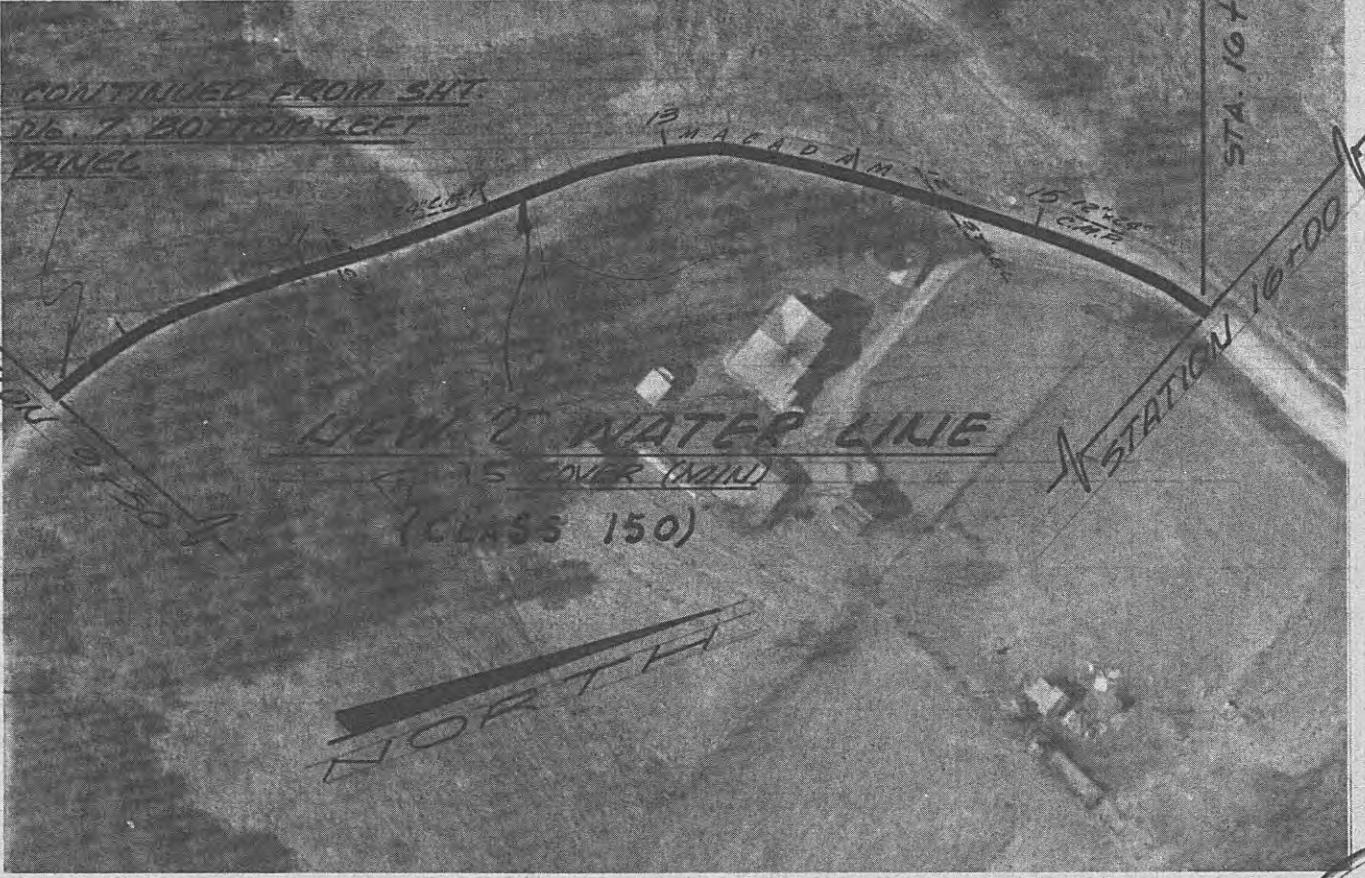
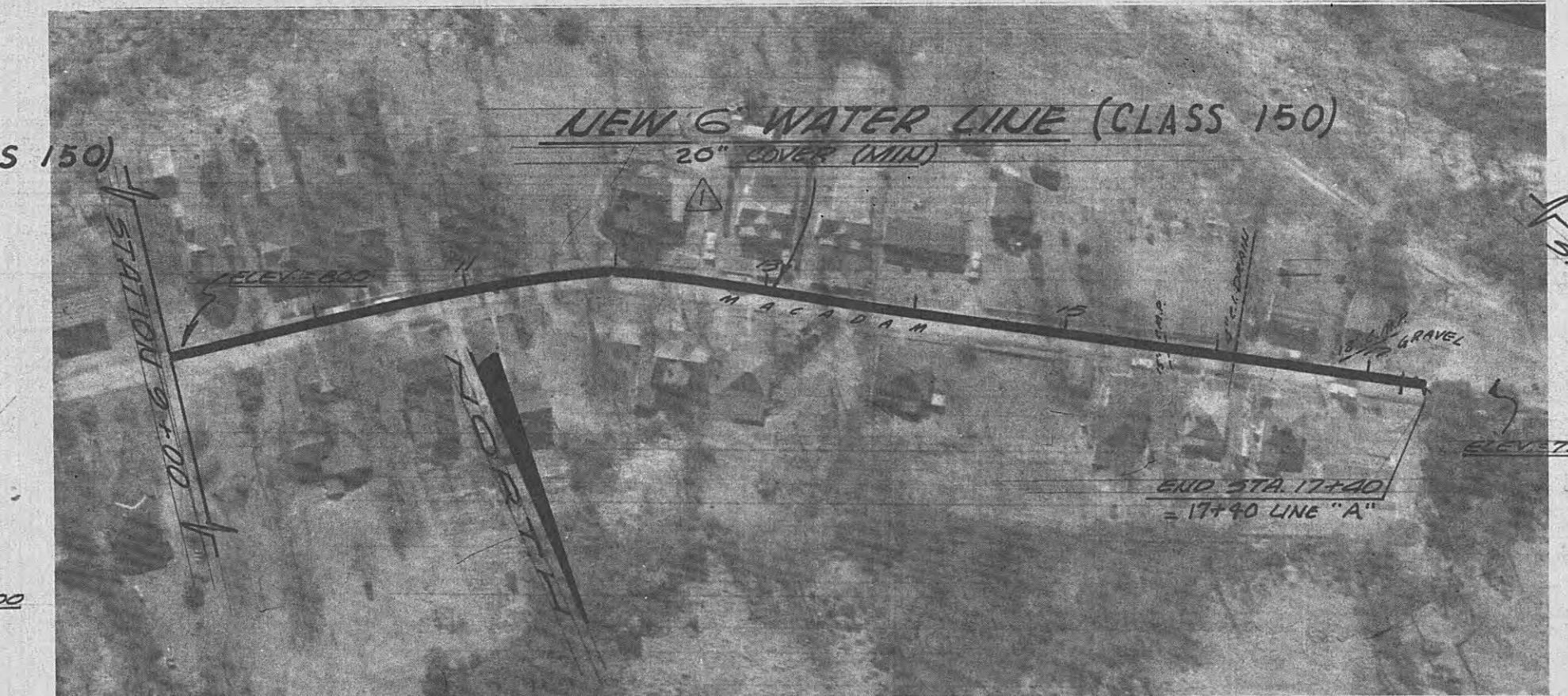
CRAB ORCHARD CHURCH EXTENSION



OAKDALE TENNESSEE
(WEST BANK OF RIVER)



OAKDALE
(WEST BANK)
TENNESSEE
OF
EMORY RIVER)



NOTE: PRESSURE REDUCING VALVES REQUIRED
ON SERVICE CONNECTIONS.

24" V.C.P.
STA. 14+05
24" STONE CULVERT
STA. 18+15
12" STONE
CULVERT
STA. 18+35
18" V.C.P.
STA. 01+05
12" R.G.P.
STA. 03+50
12" V.C.P.
STA. 04+10
12" x 12" STONE CULVERT
STA. 04+20

15" C.M.P.
STA. 15+70

24" C.M.P.
STA. 11+15

WATER SYSTEM IMPROVEMENTS
FOR WOLFE BRANCH UTILITY DISTRICT
MORGAN & ROANE CO'S
TENNESSEE

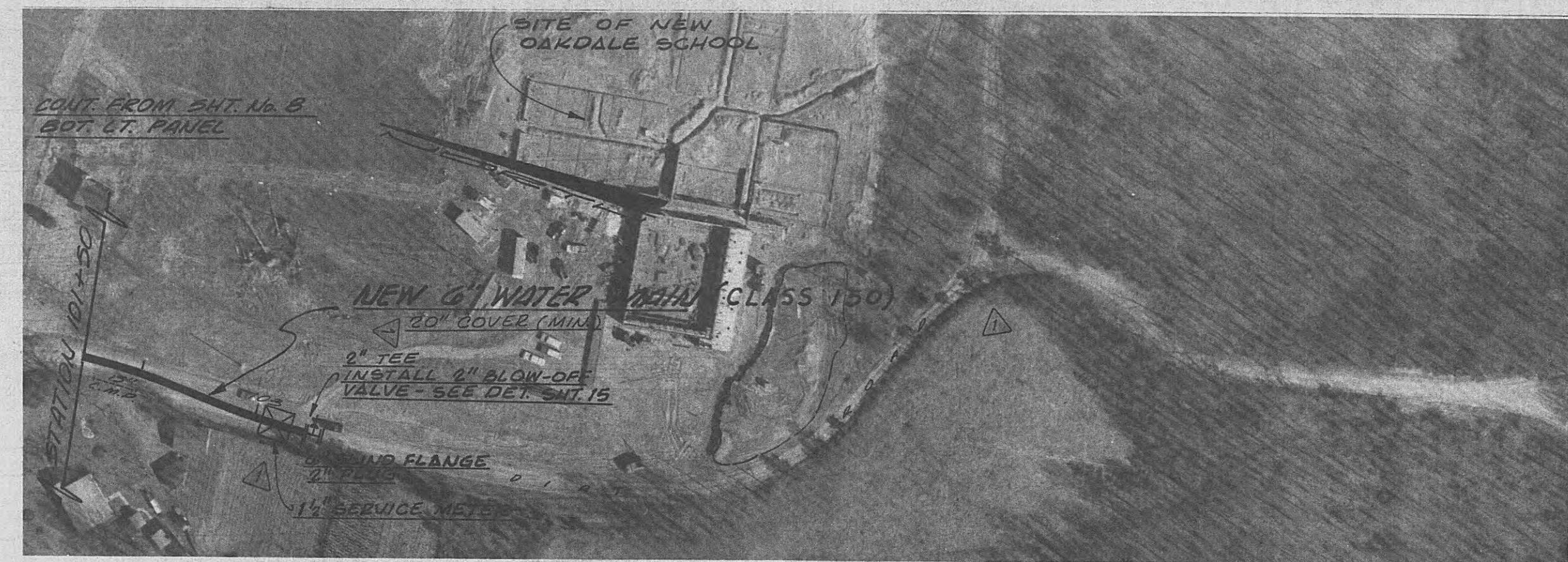
BLACK, CROW AND EIDNESS, INC.
ENGINEERS
GAINESVILLE
FLORIDA

STATE OF TENNESSEE
ROBERT
D. WILROY
No. 3389
REGISTERED ENGINEER

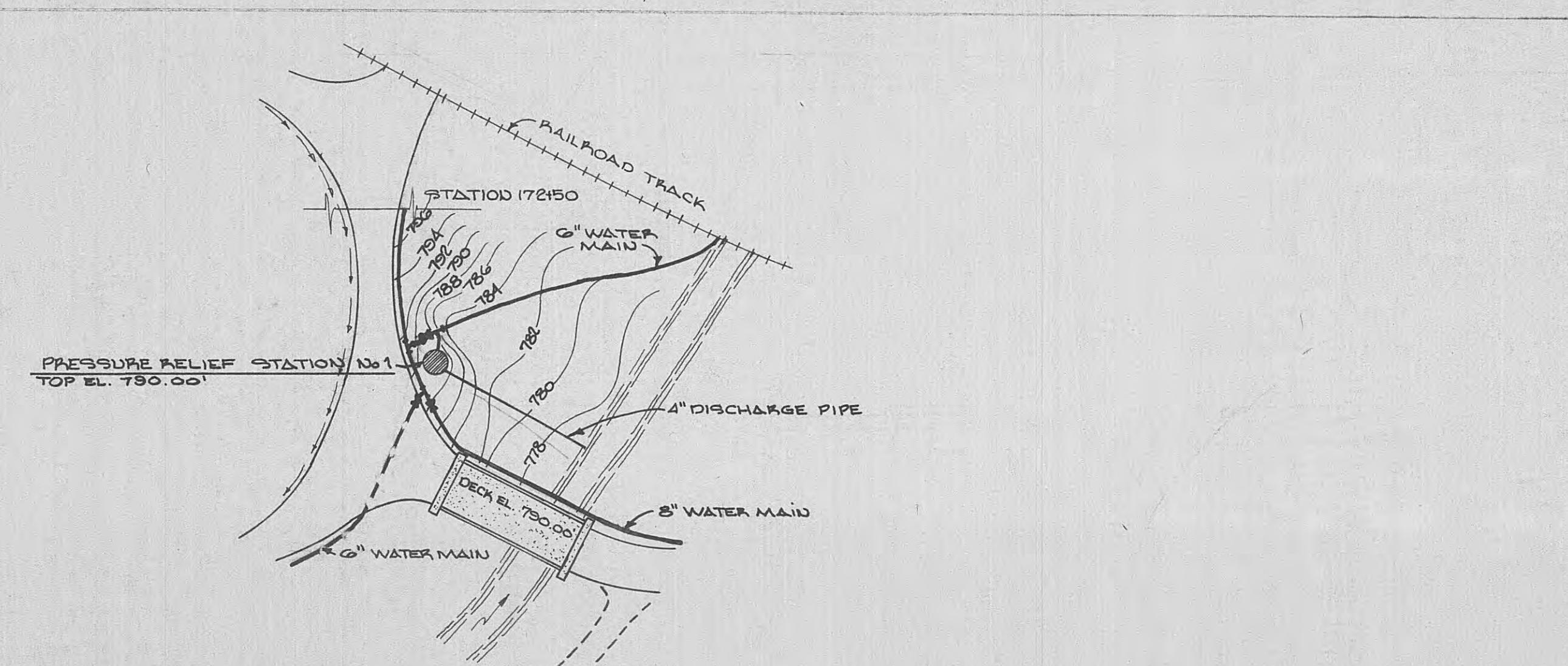
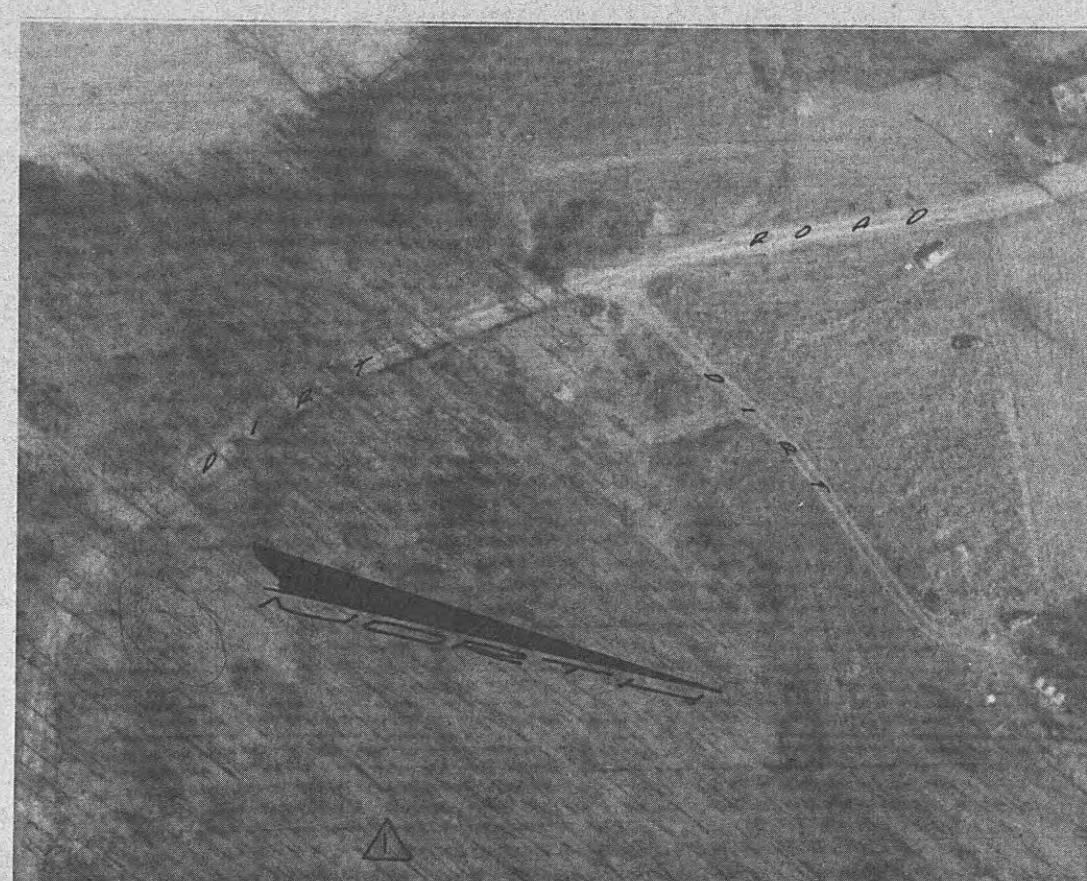
DRAWN BY: J. MARTIS
CHECKED BY: G. GRIMM
DATE: OCT. 1968
FILE NO.: 462-68-1
SCALE: 1" = 100' N.O.R.E.
SHEET NO. 9
REVISED PUMP STA. NO. 4
REVISED MIN. COVER
NO. DESCRIPTION DATE
REVISIONS



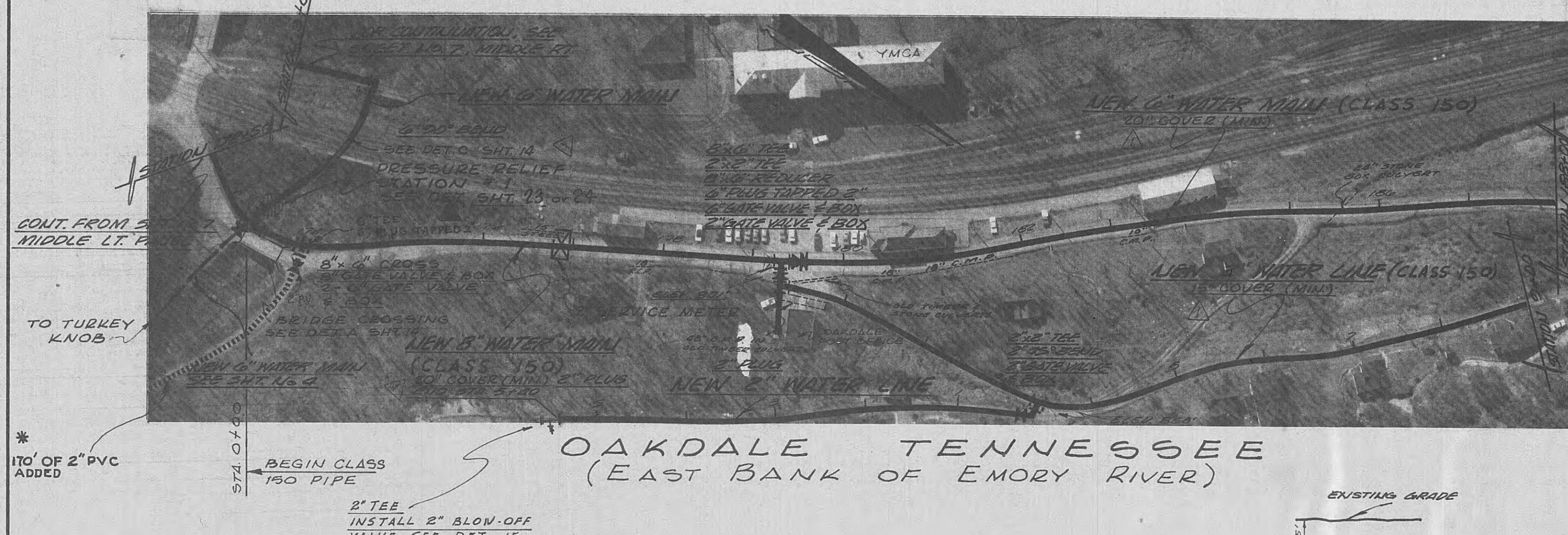
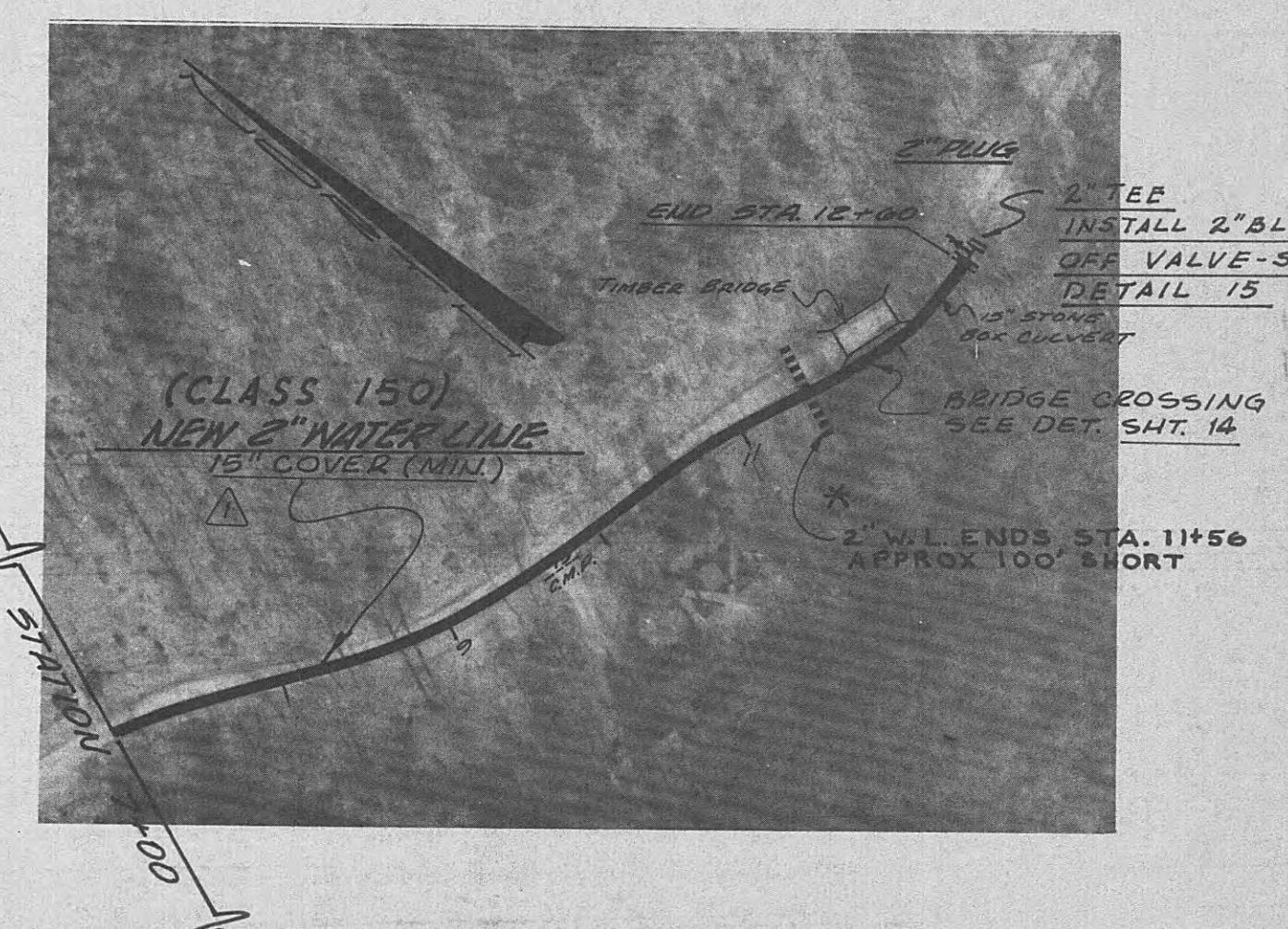
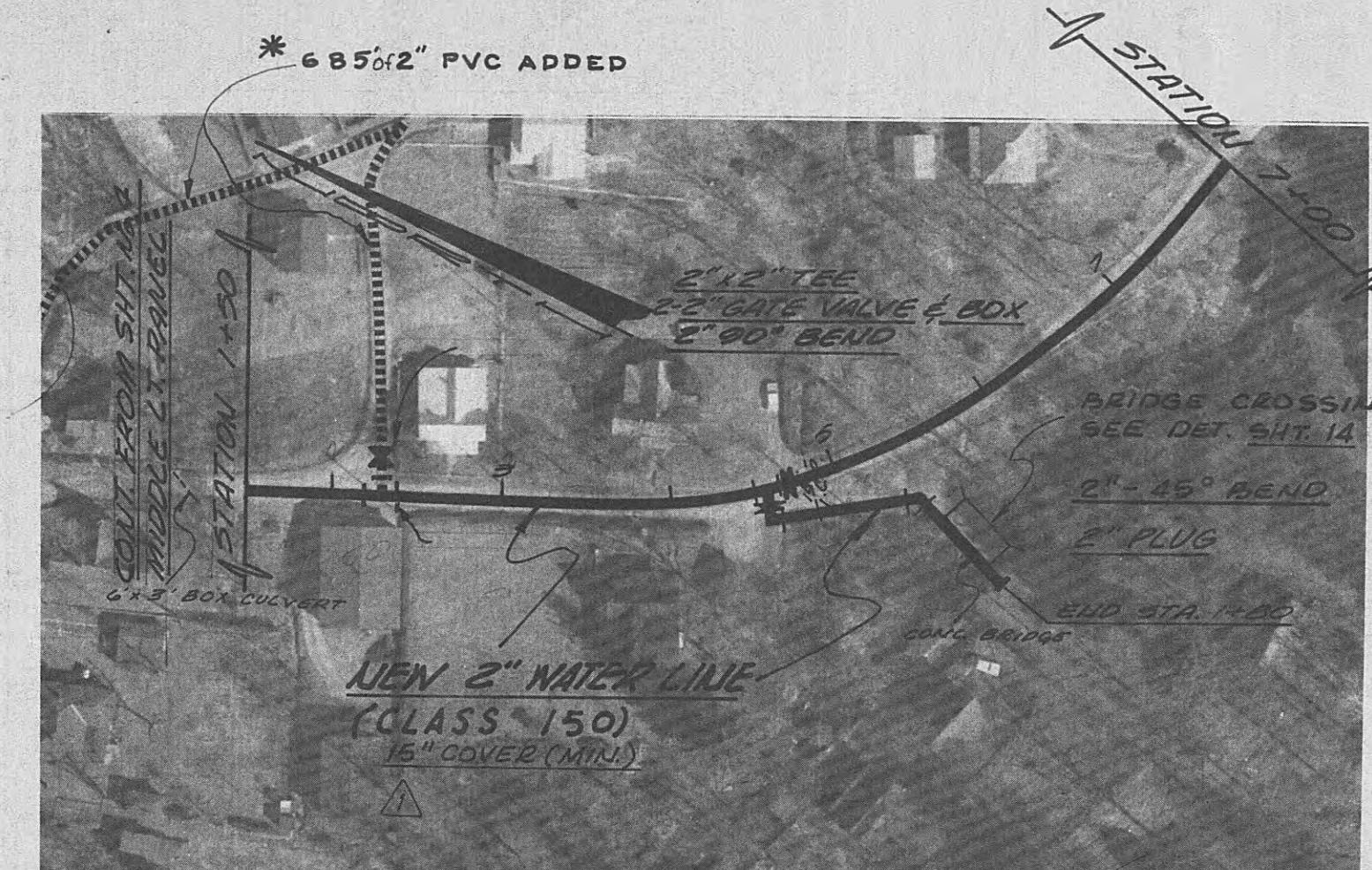
OAKDALE TENNESSEE
(WEST BANK OF EMORY RIVER) EXISTING GRA



SITE OF NEW OAKDALE SCHOOL
(OFF OF CRAB ORCHARD CHURCH ROAD)



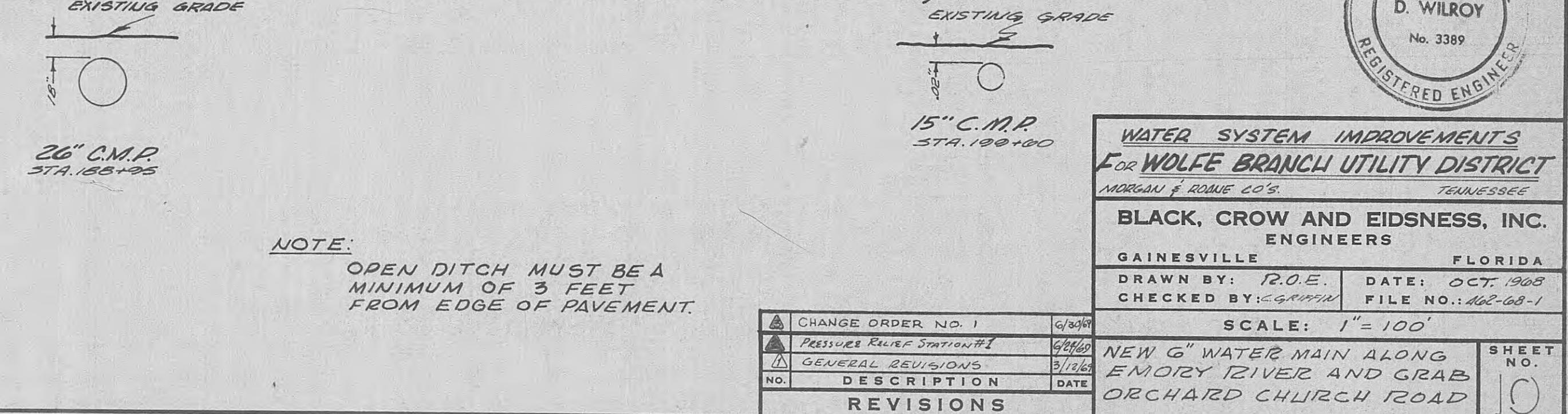
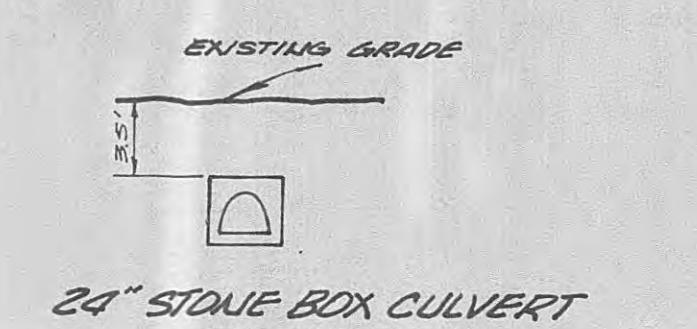
SITE PLAN PRESSURE RELIEF STATION No.1



OAKDALE TENNESSEE
(EAST BANK OF EMORY RIVER)



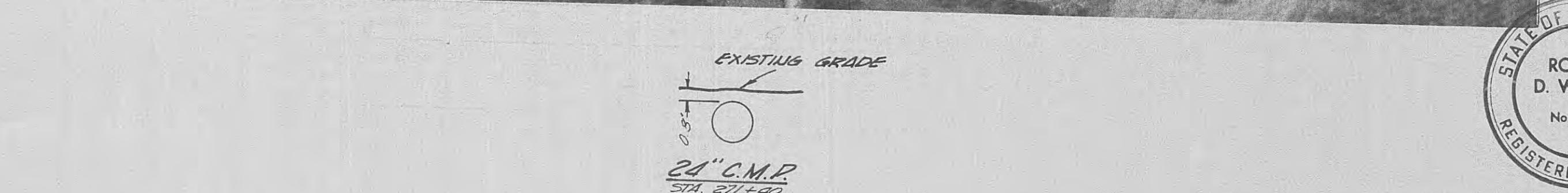
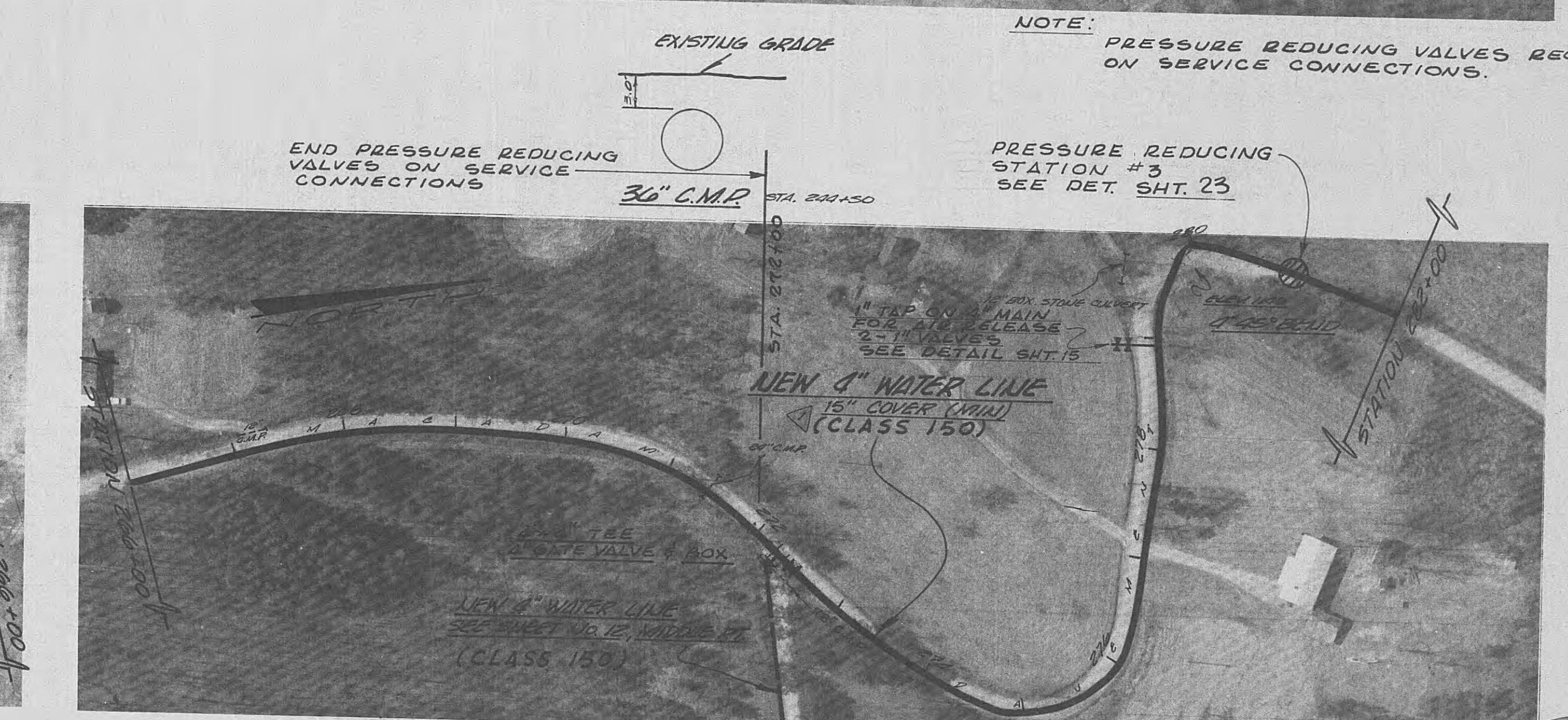
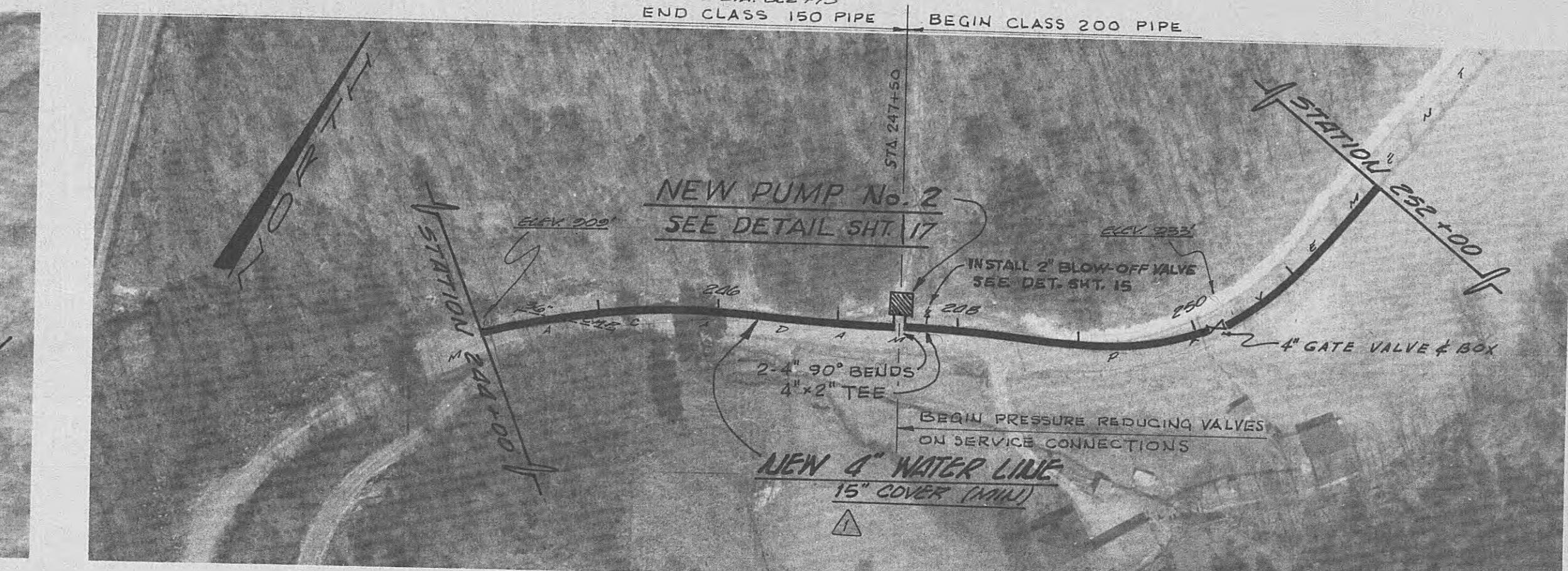
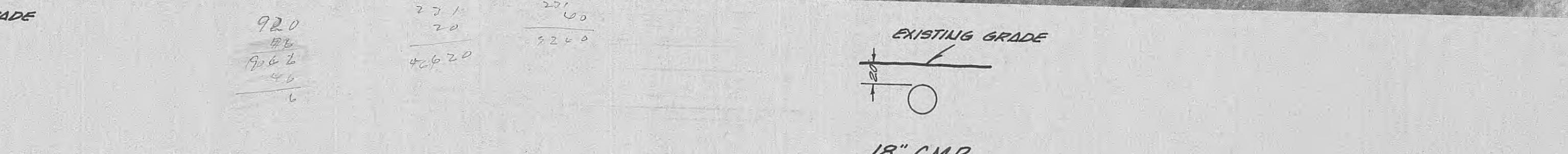
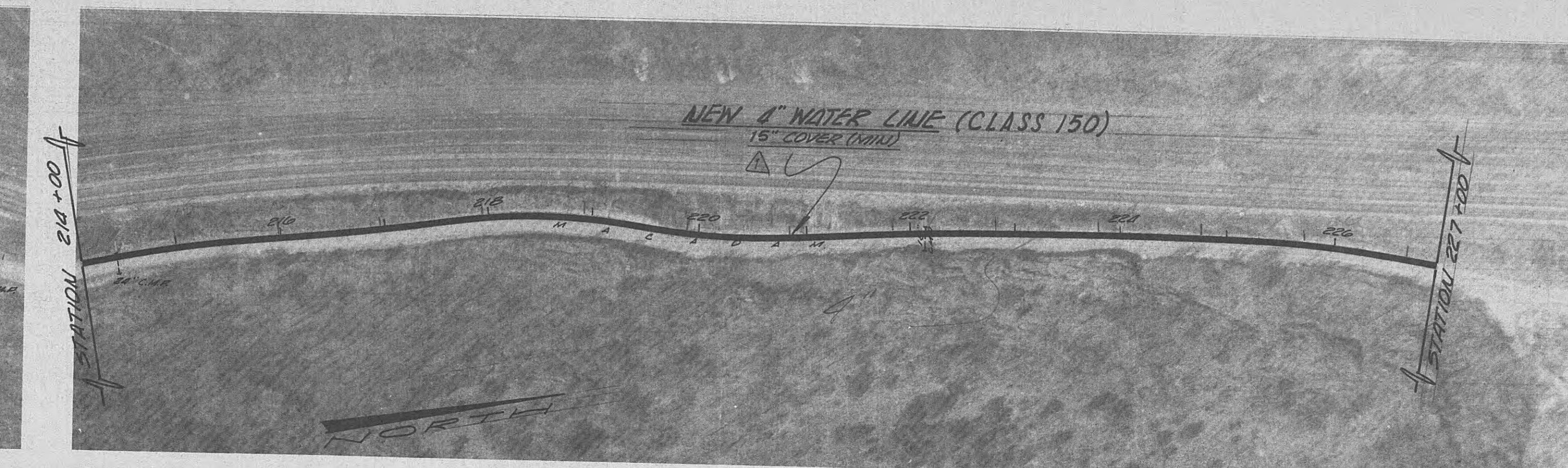
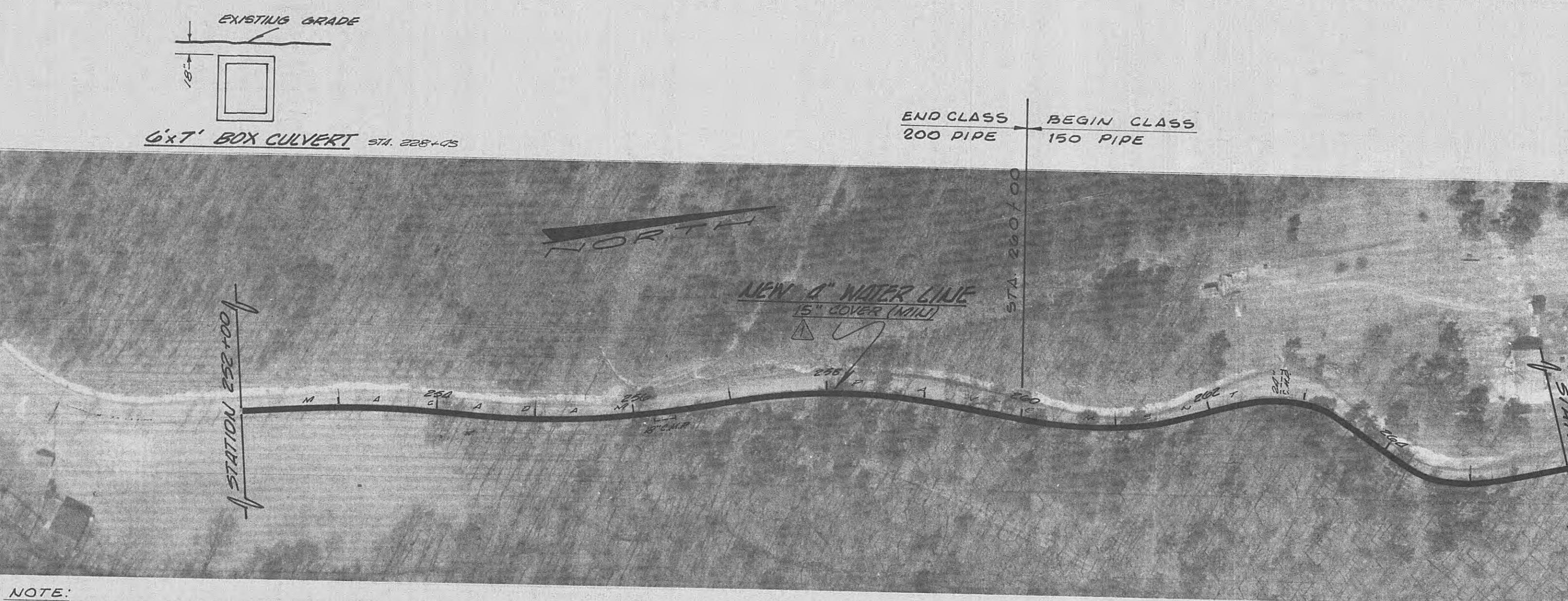
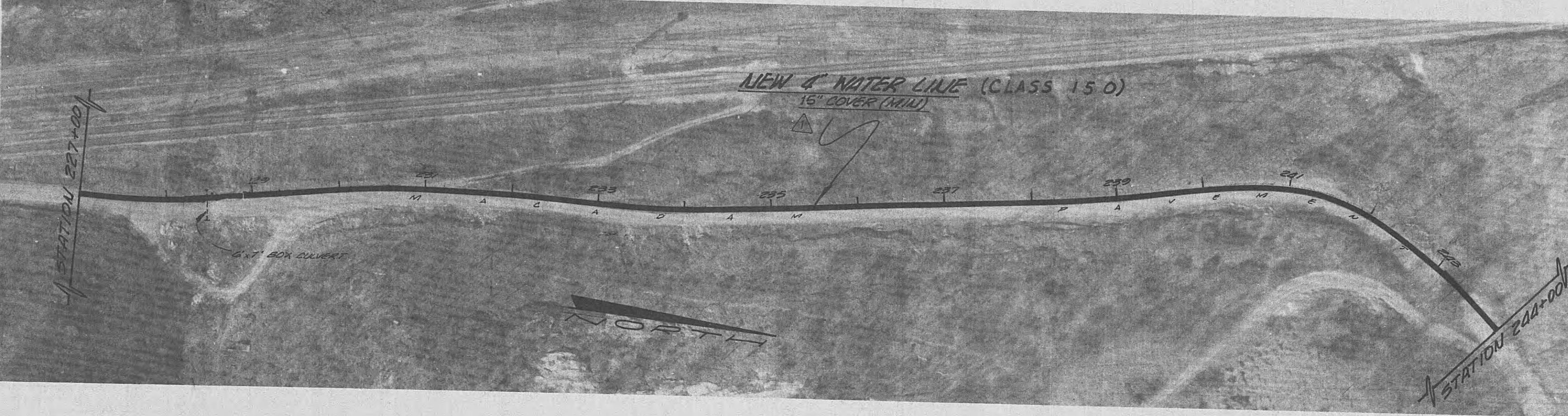
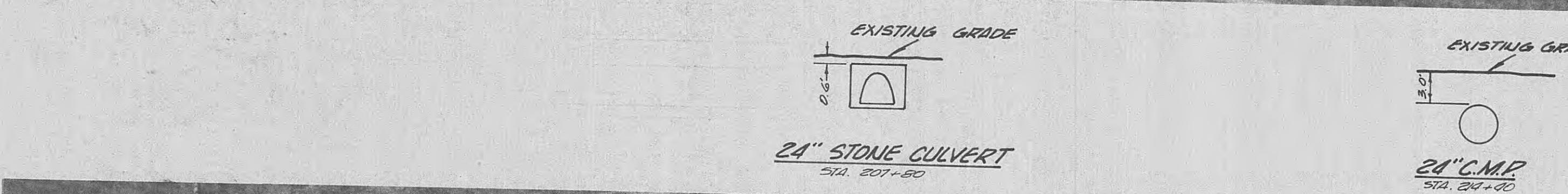
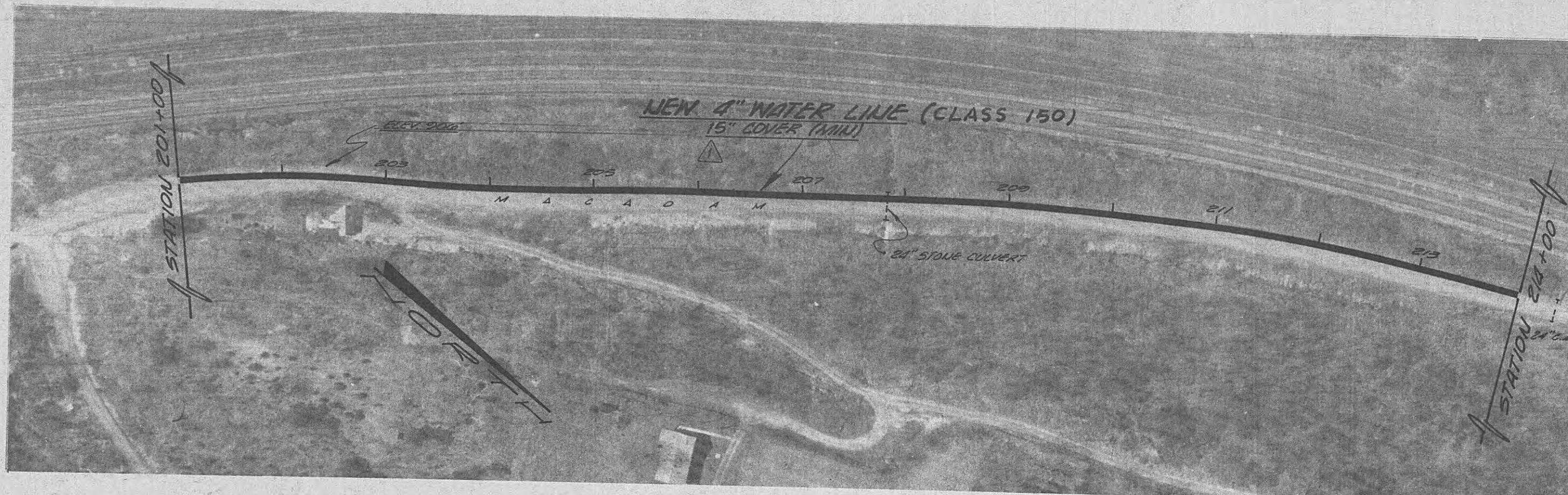
OAKDALE TENNESSEE
(EAST BANK OF EMORY RIVER)



*..... DENOTES A DEVIATION FROM ORIGINAL PLANS

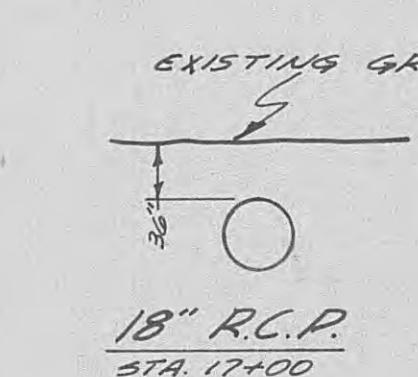
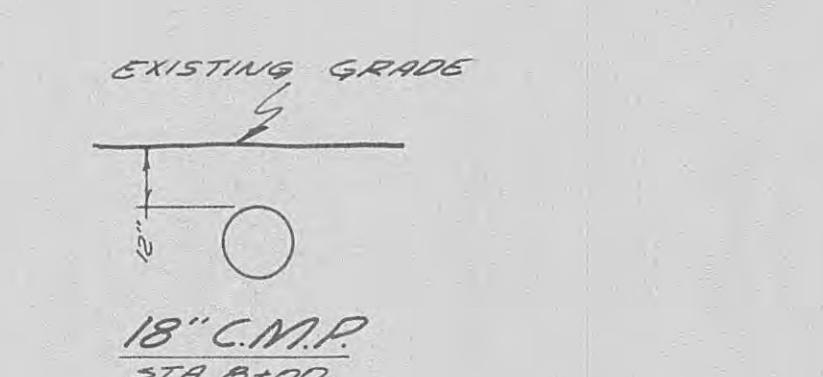
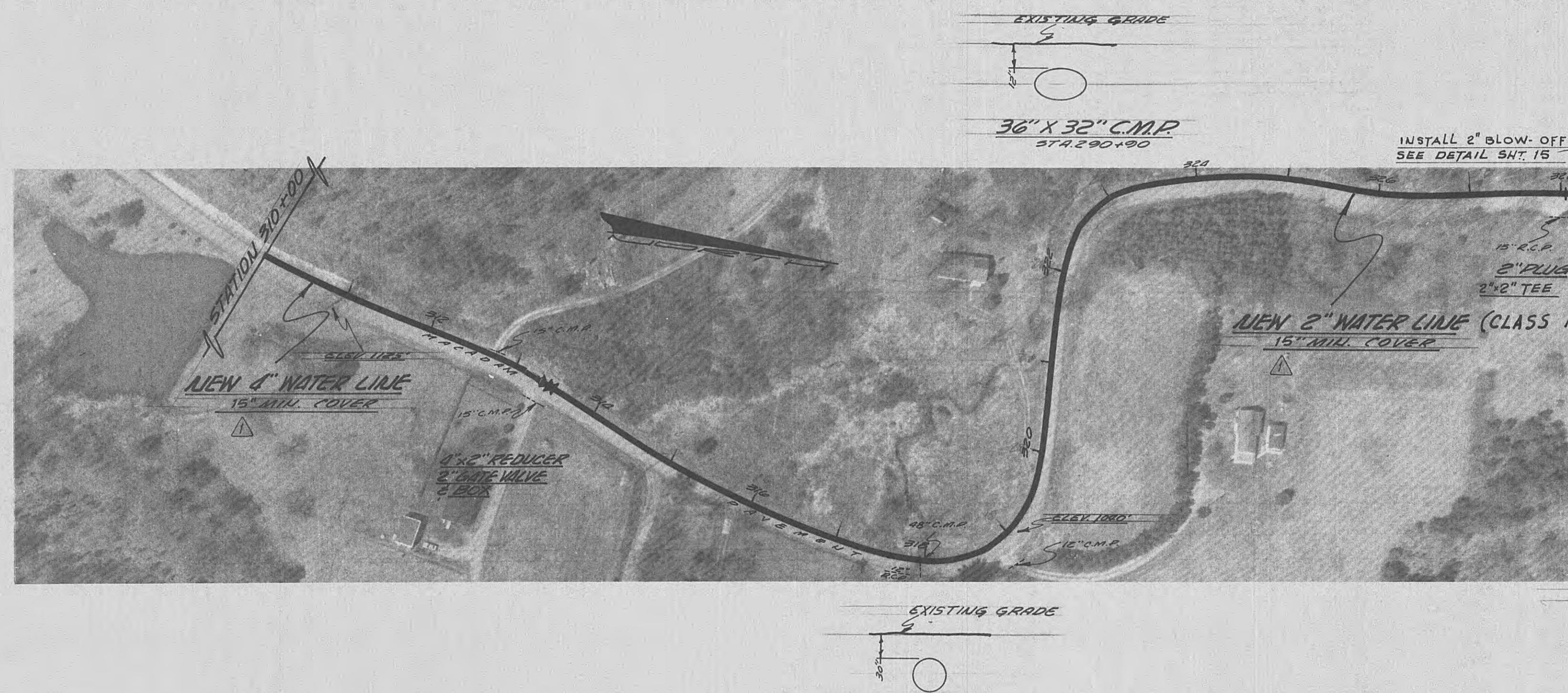
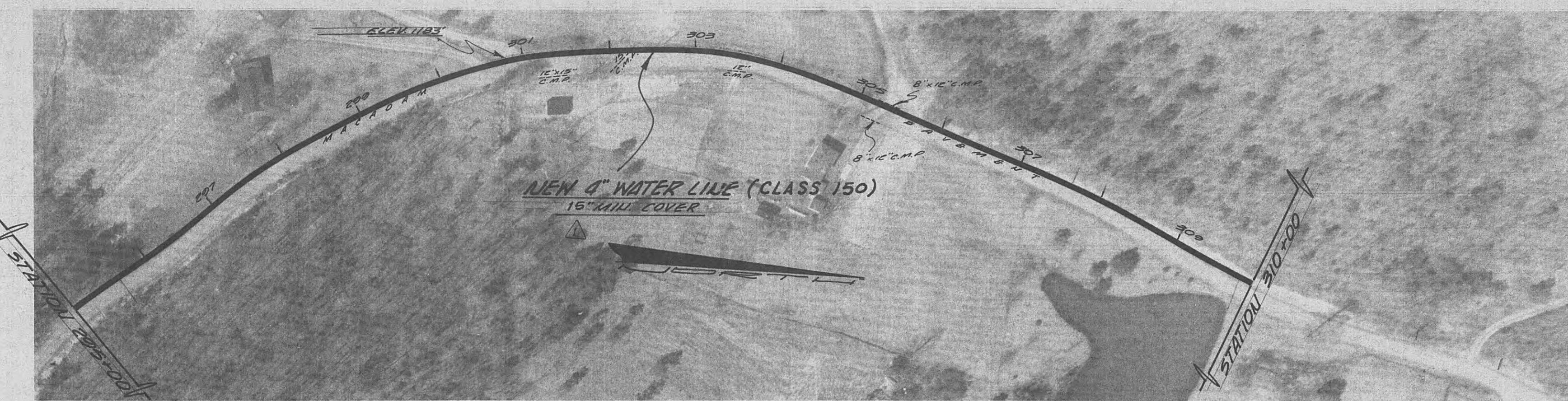
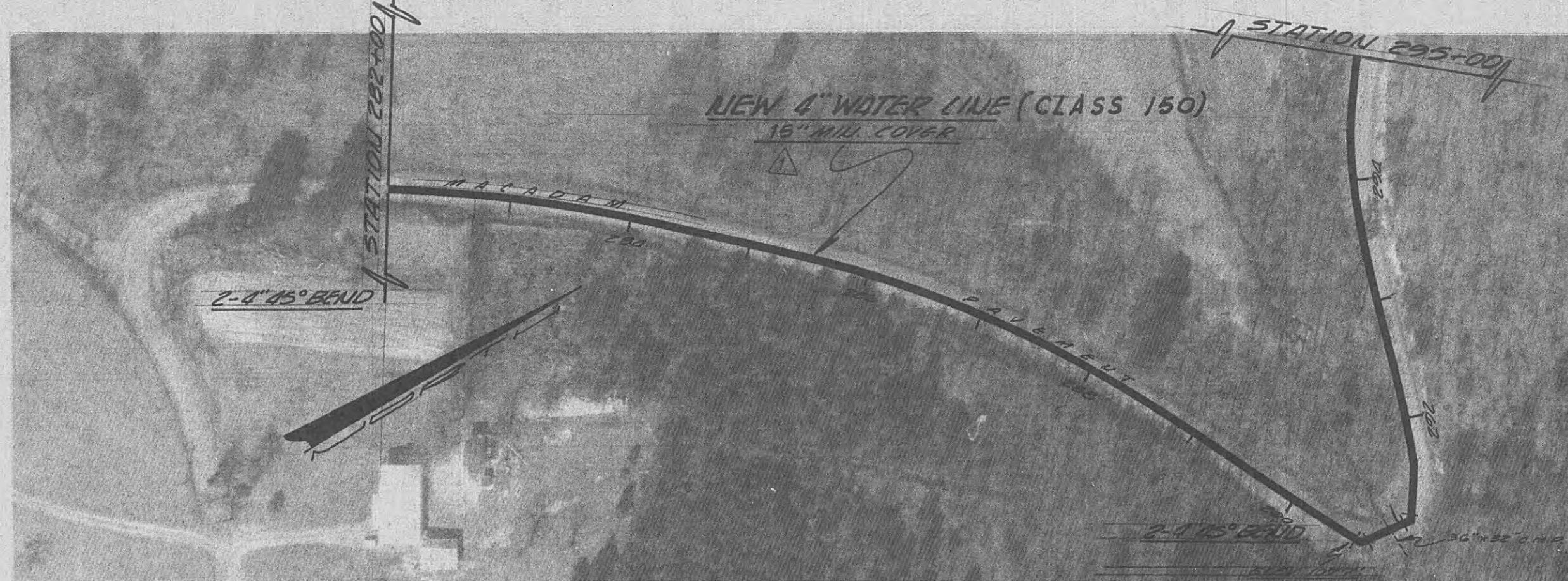
NOTE: OPEN DITCH MUST BE A
MINIMUM OF 3 FEET
FROM EDGE OF PAVEMENT

AERIAL PHOTOGAMMICS, INC.



NOTE:
OPEN DITCH MUST BE A
MINIMUM OF 3 FEET
FROM EDGE OF PAVEMENT.

WATER SYSTEM IMPROVEMENTS For WOLFE BRANCH UTILITY DISTRICT MORGAN & ROME CO'S TENNESSEE		
BLACK, CROW AND EIDNESS, INC. ENGINEERS		
GAINESVILLE FLORIDA		
DRAWN BY: B.E.V.S.	DATE: OCT. 1968	
CHECKED BY: C.GREIN	FILE NO.: 102-68-1	
SCALE: 1"-100'		
REVISED MIN COVER NO. DESCRIPTION DATE REVISIONS		
NEW 6" WATER LINE ALONG ROAD TO PINEY CHURCH		
SHEET NO. []		



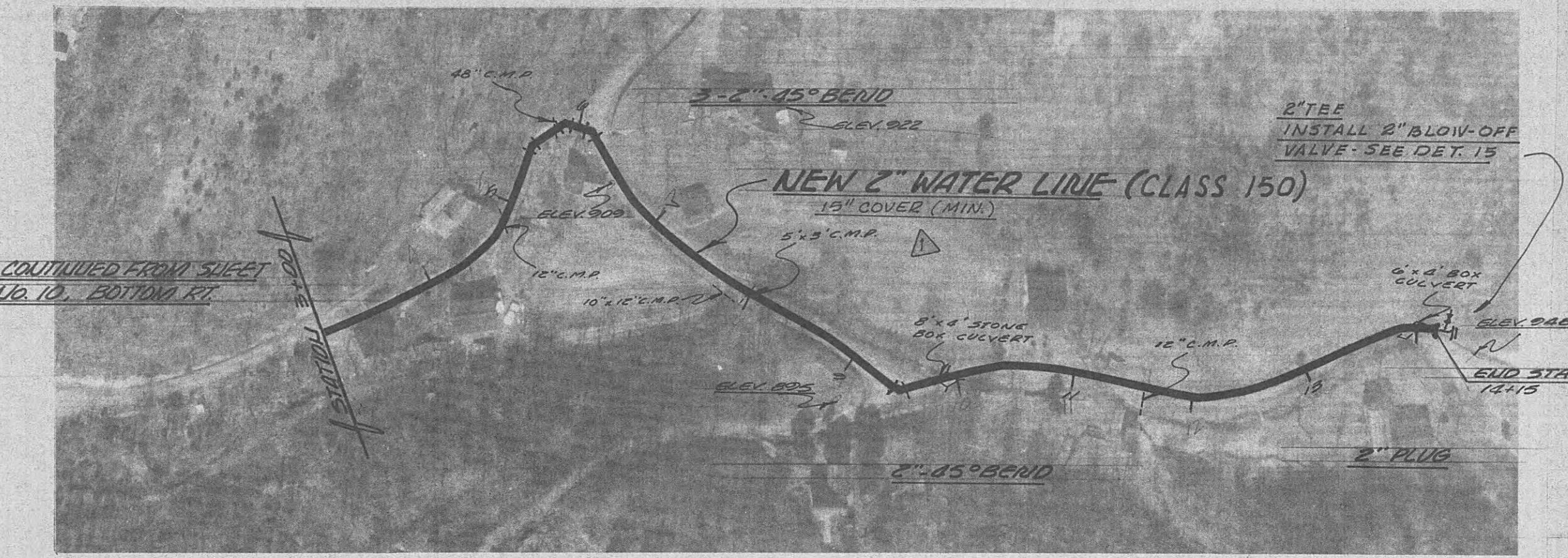
WATER SYSTEM IMPROVEMENTS
For WOLFE BRANCH UTILITY DISTRICT
MORGAN & LEONE CO'S TENNESSEE

BLACK, CROW AND EIDSNESS, INC.
ENGINEERS
GAINESVILLE FLORIDA

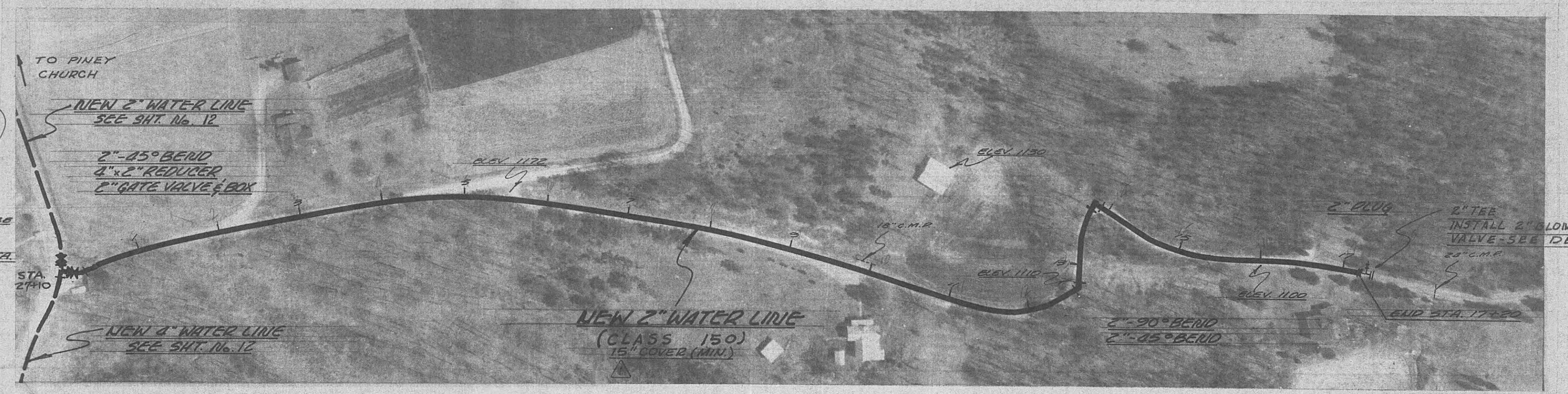
DRAWN BY: M. HAUNOLD	DATE: OCT 1968
CHECKED BY: C. GRIFFIN	FILE NO.: 102-001
SCALE: 1" = 100' HORIZONTAL	SHEET NO.

NEW 2" & 4" WATER LINE ALONG ROAD TO PINEY CHURCH

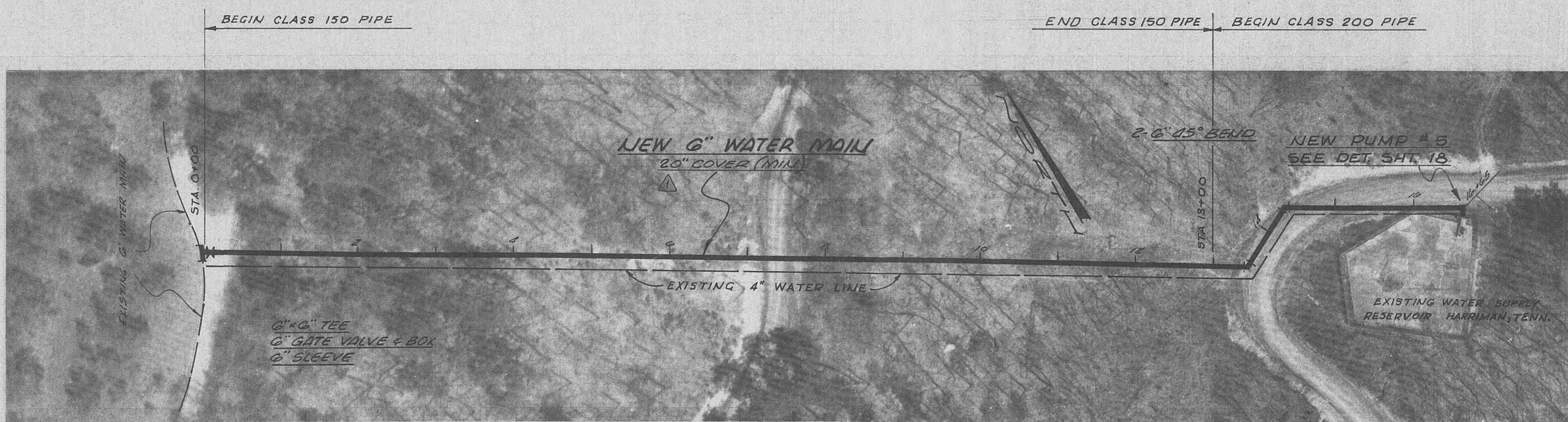




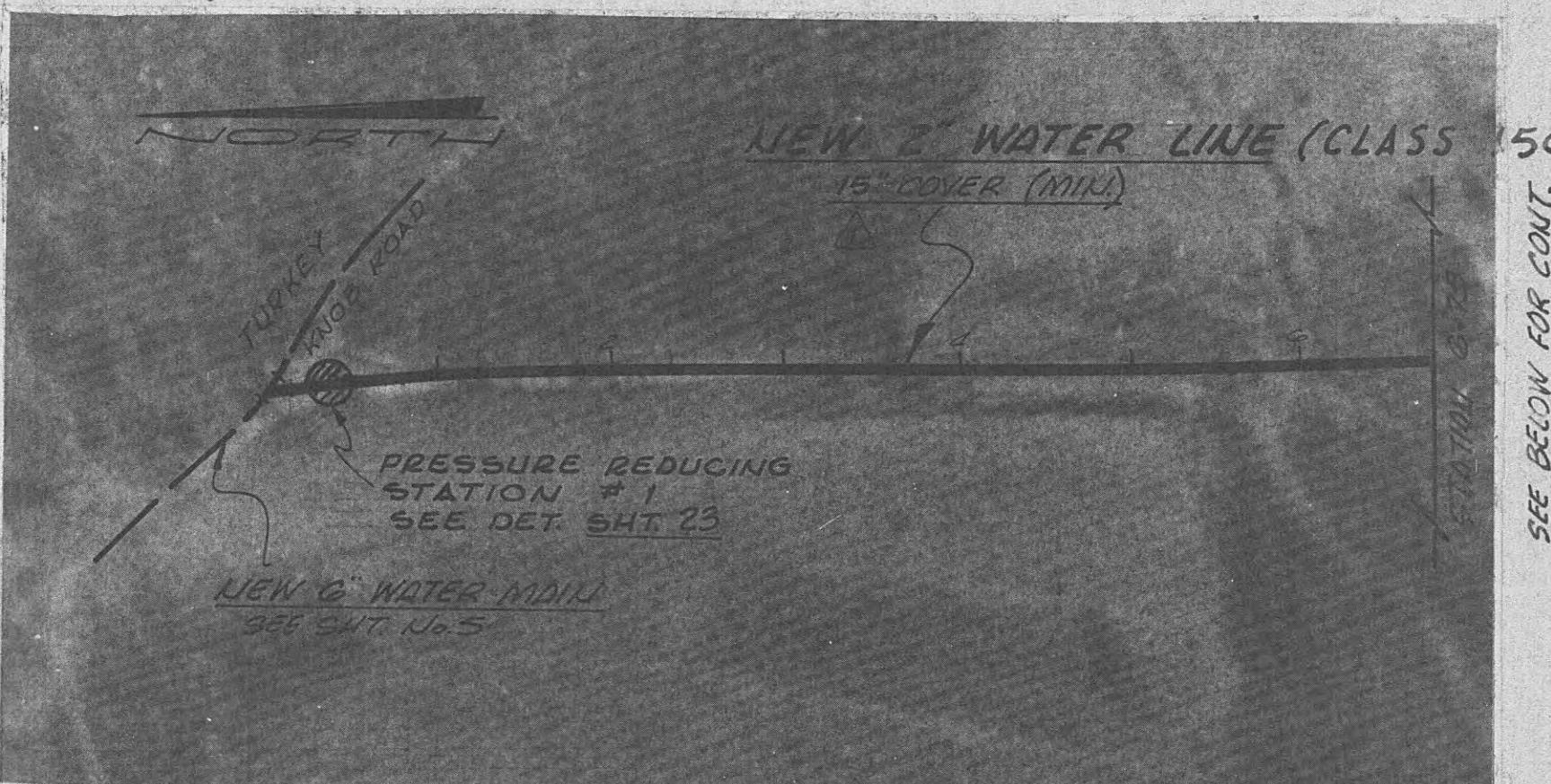
"HOLE IN THE WALL" EXTENSION



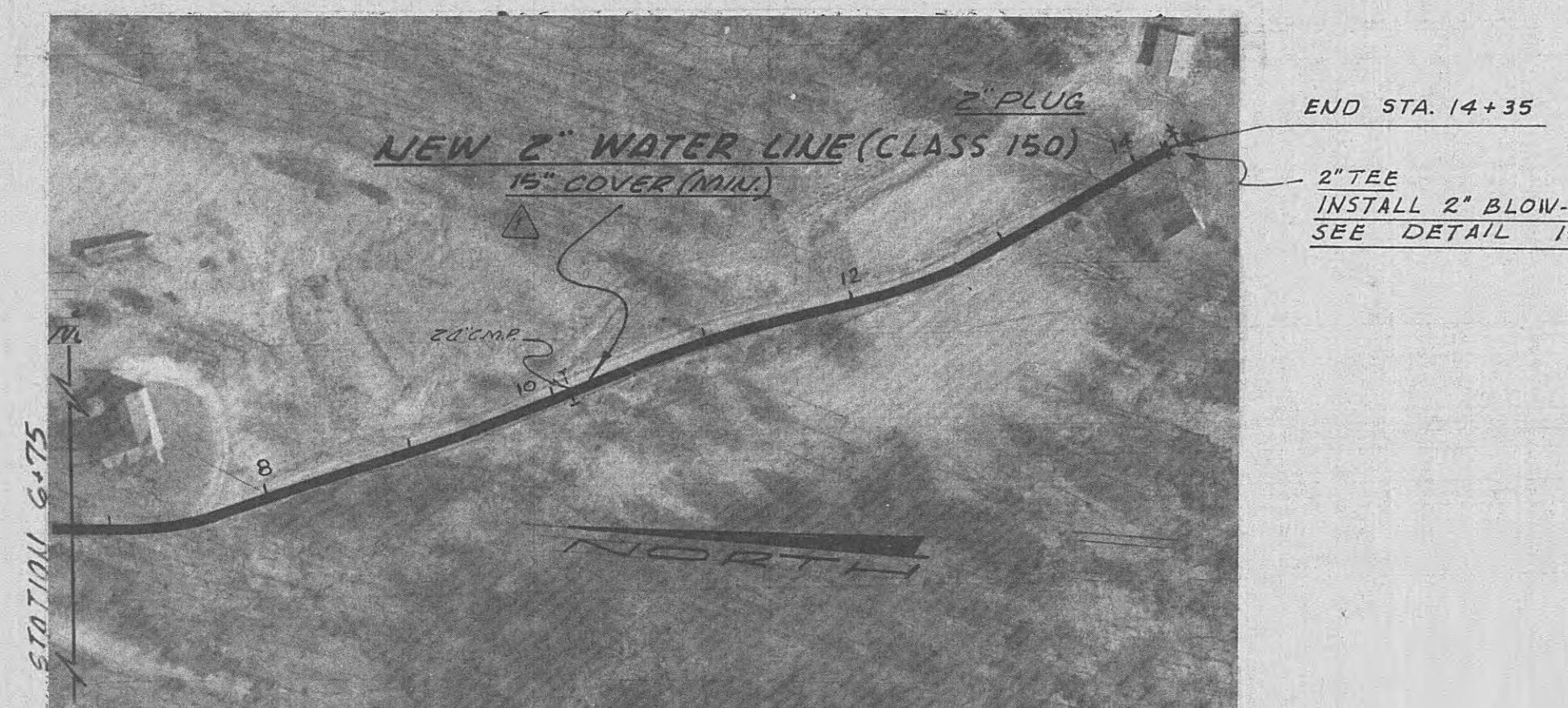
EXTENSION IN PINEY CHURCH AREA



NEW SUPPLY MAIN TO EXISTING RESERVOIR ON WALDEN RIDGE



EXTENSION ON TOP OF TURKEY KNOB

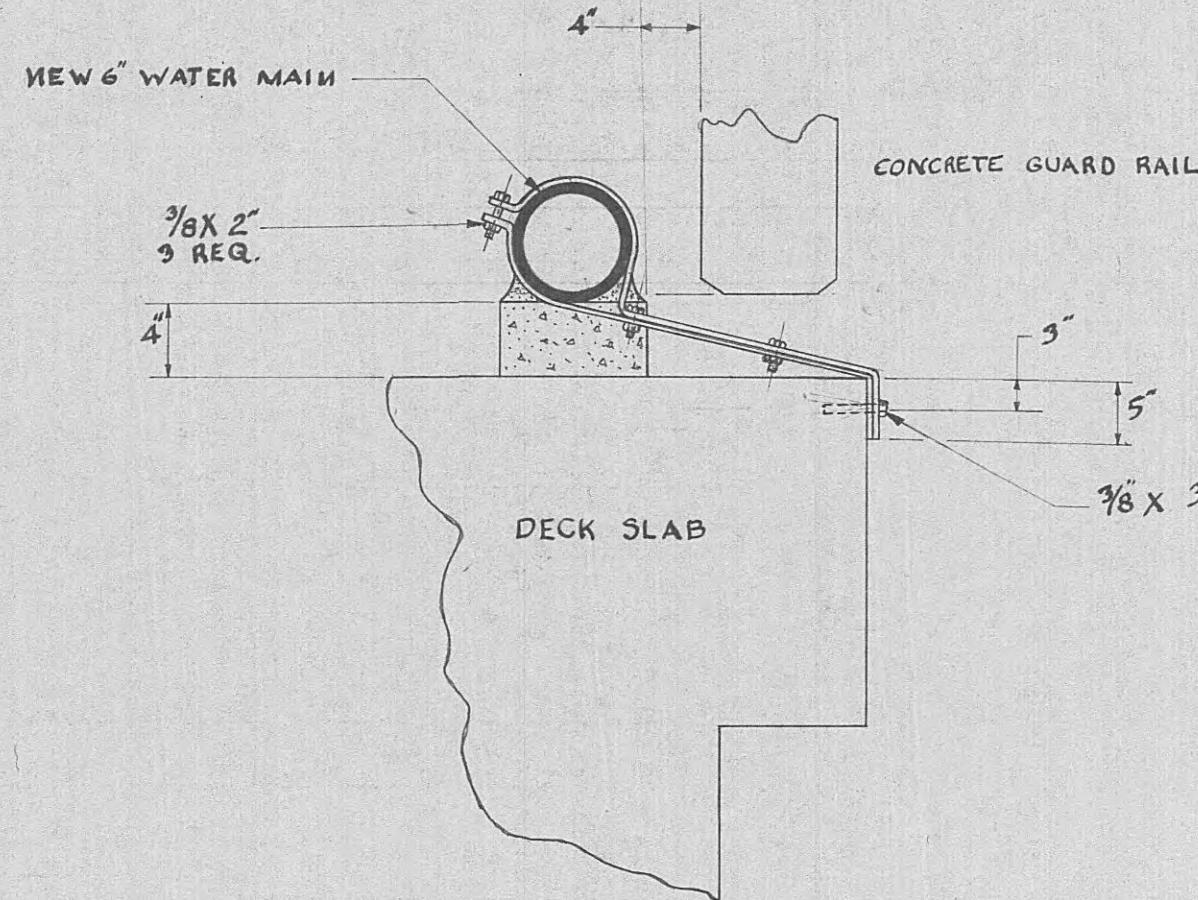


EXTENSION ON TOP OF TURKEY KNOB

STATE OF TENNESSEE
ROBERT D. WILROY
No. 3389
REGISTERED ENGINEER

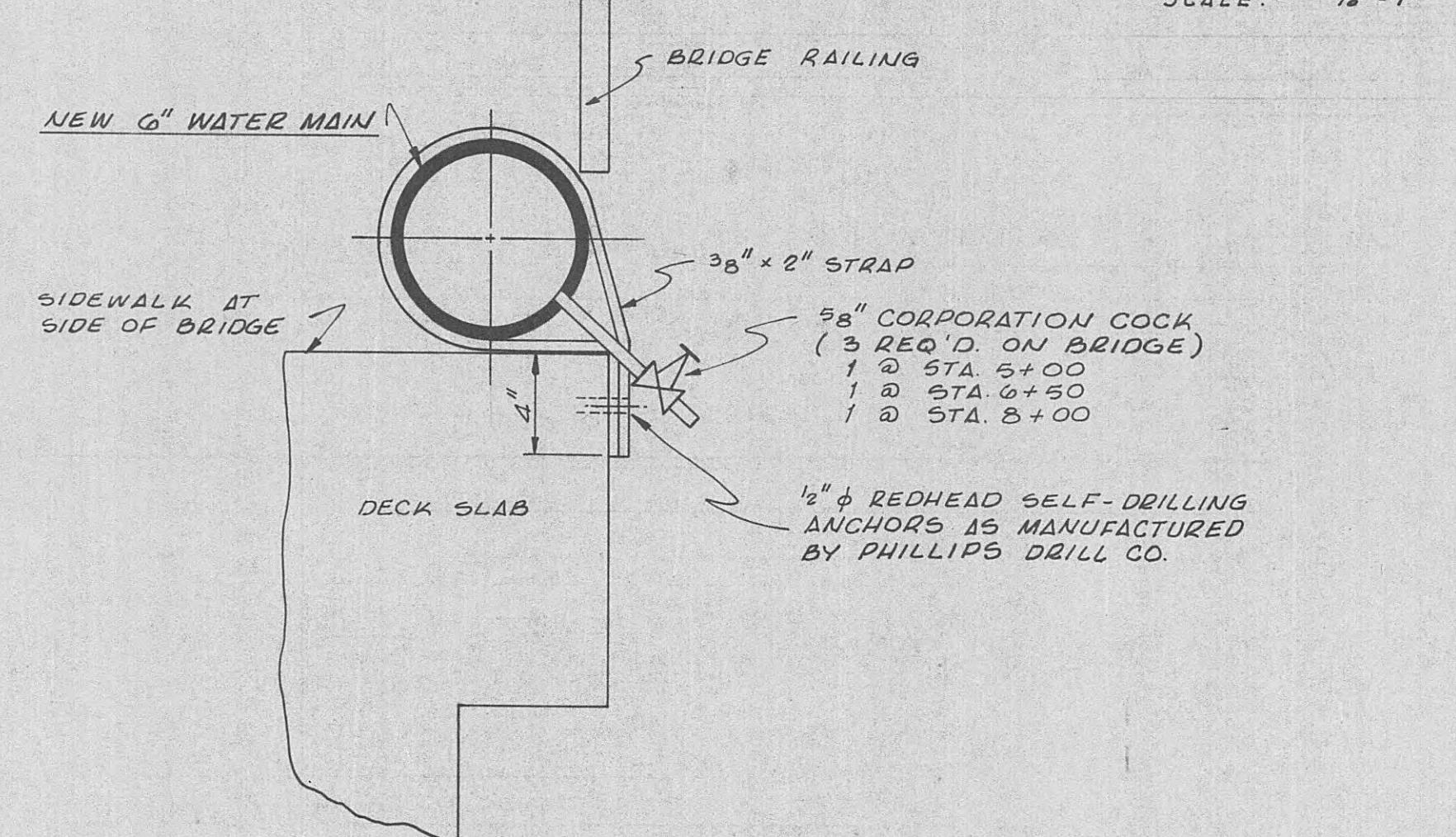
WATER SYSTEM IMPROVEMENTS FOR WOLFE BRANCH UTILITY DISTRICT		
MORGAN & ROME CO'S TENNESSEE		
BLACK, CROW AND EIDSNESS, INC. ENGINEERS		
GAINESVILLE	FLORIDA	
DRAWN BY: J. MARTIS	DATE: OCT. 1968	
CHECKED BY: C. GRIFFIN	FILE NO.: 102-66-1	
SCALE: 1"=100' HORIZ.		
REvised MIN. COVER NO. DESCRIPTION DATE		
REVISIONS		
NEW SUPPLY MAIN ON WALDEN RIDGE EXTENSION IN "HOLE IN THE WALL" EXTENSION IN PINEY CHURCH AREA EXTENSION ON TOP OF TURKEY KNOB		
SHEET NO. 3		

NOTE:
OPEN DITCH MUST BE A
MINIMUM OF 3 FEET
FROM EDGE OF PAVEMENT.



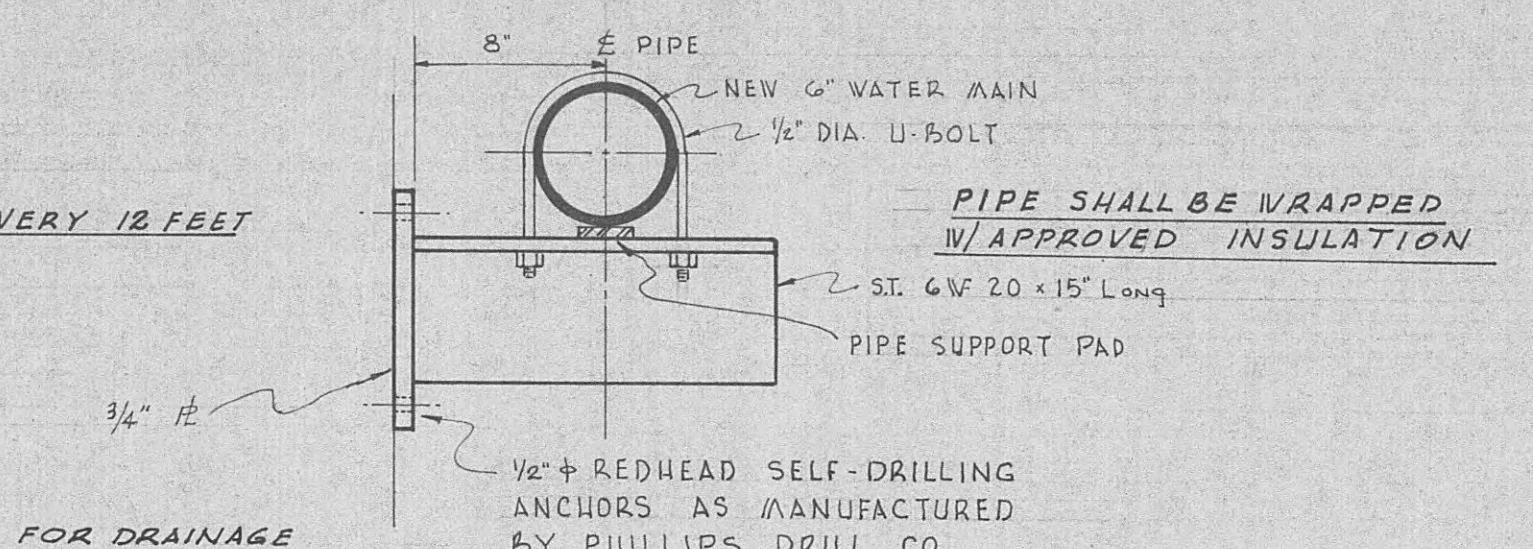
PIPE SUPPORT DETAIL - A

SCALE: NONE



SUPPORT LOCATION DETAIL - C

SUPPORT EVERY 12 FEET

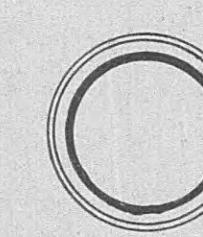


PIPE SUPPORT DETAIL FOR DRAINAGE CULVERT UNDER RAILROAD

SUPPORT LOCATION - DETAIL C

(STA. 1+20, BOTTOM LEFT PANEL SHT. 10)

SCALE: 1/8"-1"

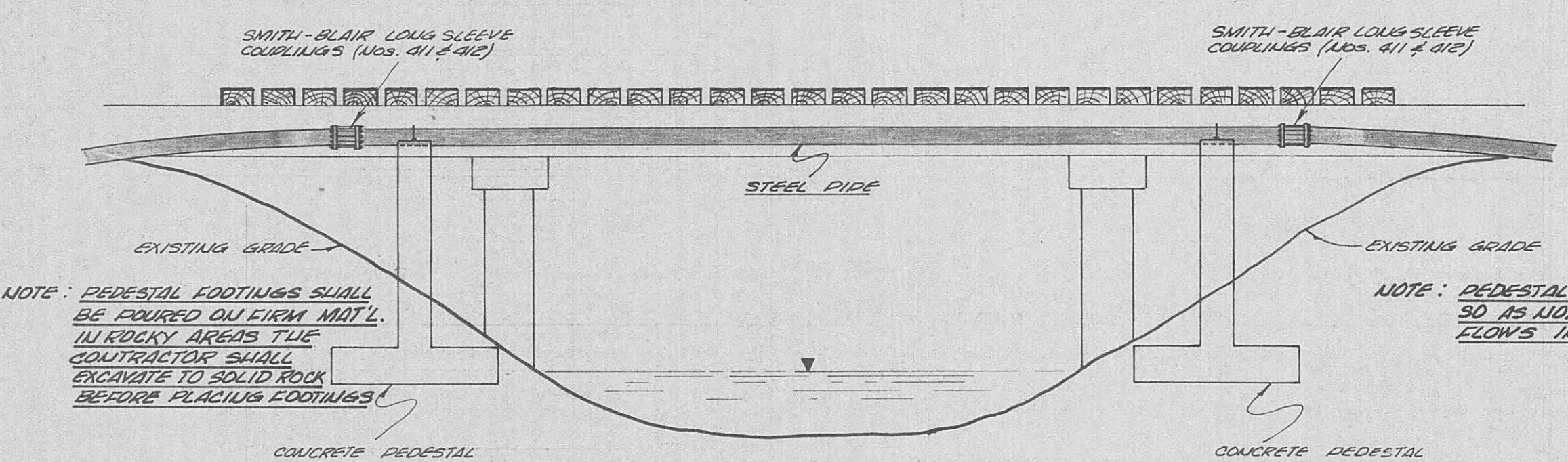


SUPPORT LOCATION DETAIL - B

SCALE: 3/16"-1"

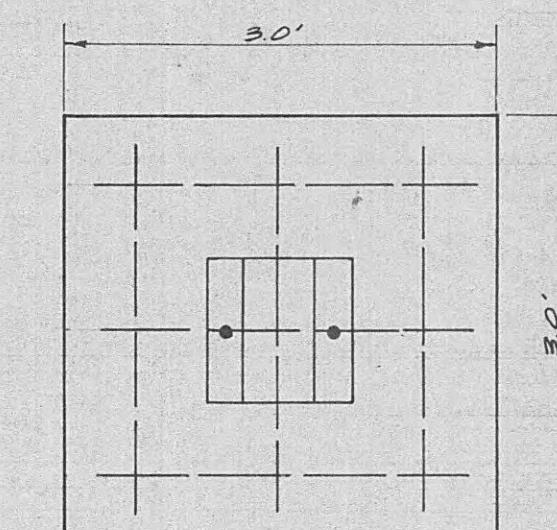
EXPOSED PIPE INSULATION DETAIL

NOT TO SCALE



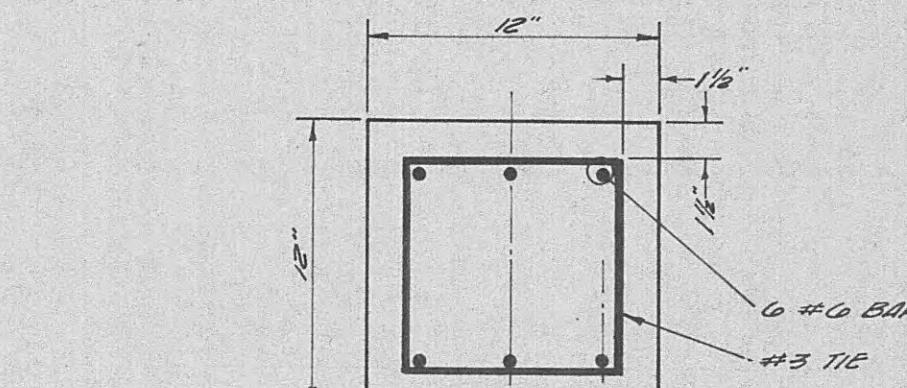
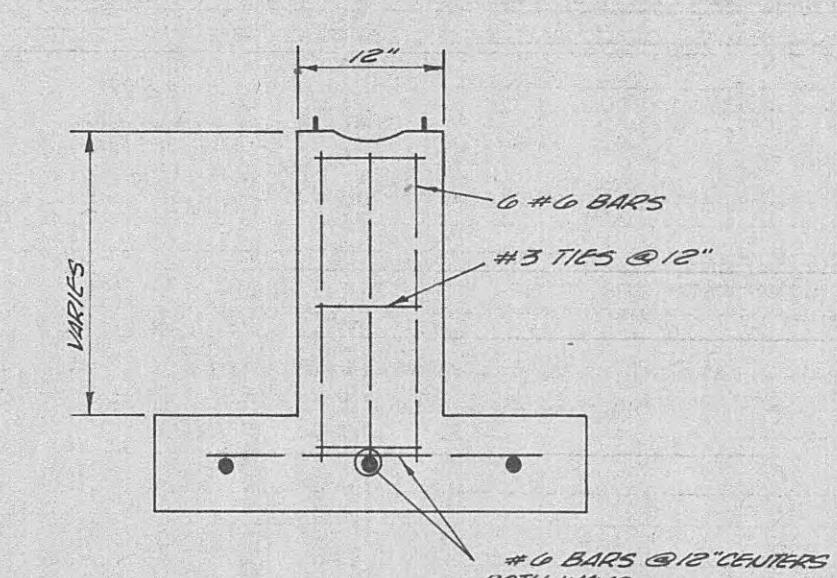
TYPICAL STREAM CROSSING

NOT TO SCALE



PEDESTAL REINFORCEMENT DETAIL

SCALE: 3/4"-1.0'



PIPE SUPPORT DETAIL

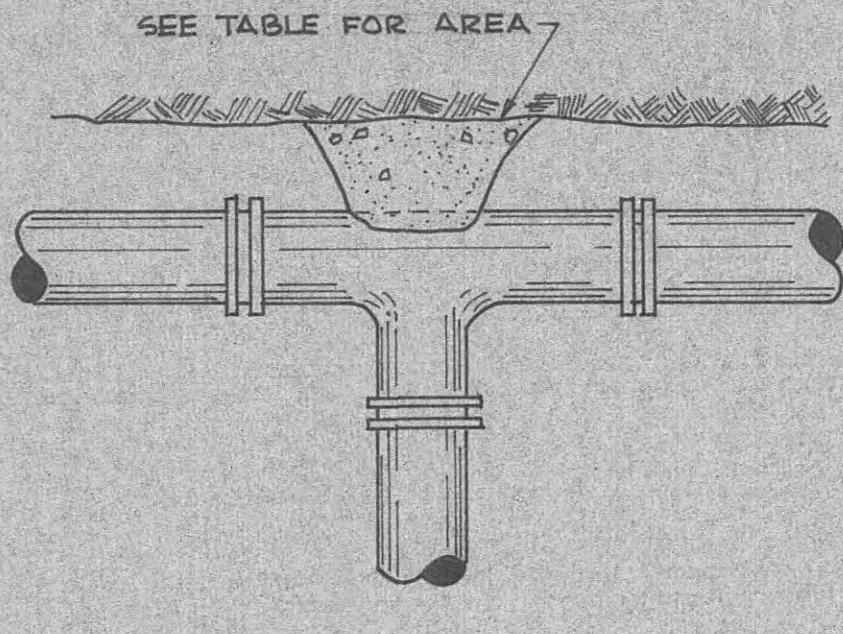
SCALE: 1/8"-1"



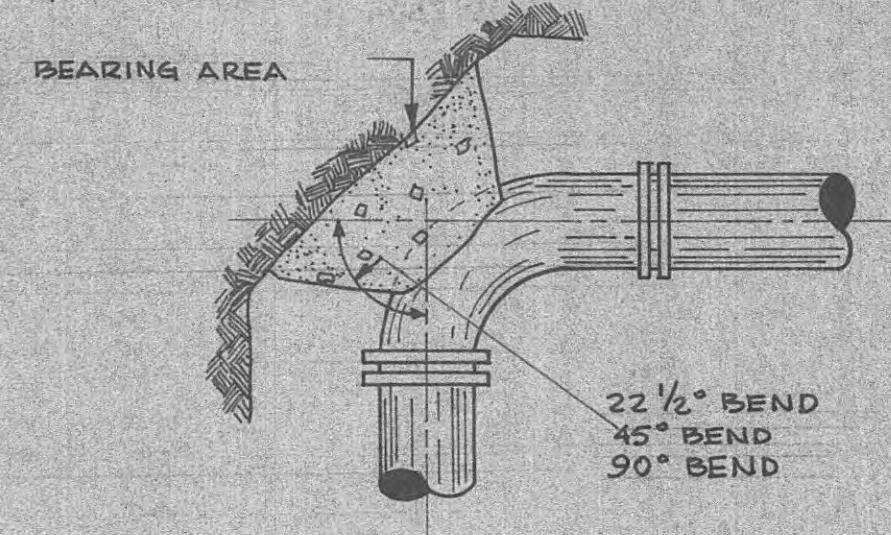
WATER SYSTEM IMPROVEMENTS For WOLFE BRANCH UTILITY DISTRICT MONROE & ROANE COUNTIES, TENNESSEE		
BLACK, CROW AND EIDSNESS, INC. ENGINEERS		
GAINESVILLE, FLORIDA		
DRAWN BY: D. BEATTY	DATE: OCT. 1968	
CHECKED BY: C. GRIFFIN	FILE NO.: 402-08-1	
SCALE: 1" = 100' HORIZONTAL		
GENERAL REVISION NO.	5/26/68	
DESCRIPTION		
REVISIONS		

TYPICAL PIPE SUPPORT DETAILS
FOR BRIDGE CROSSINGS

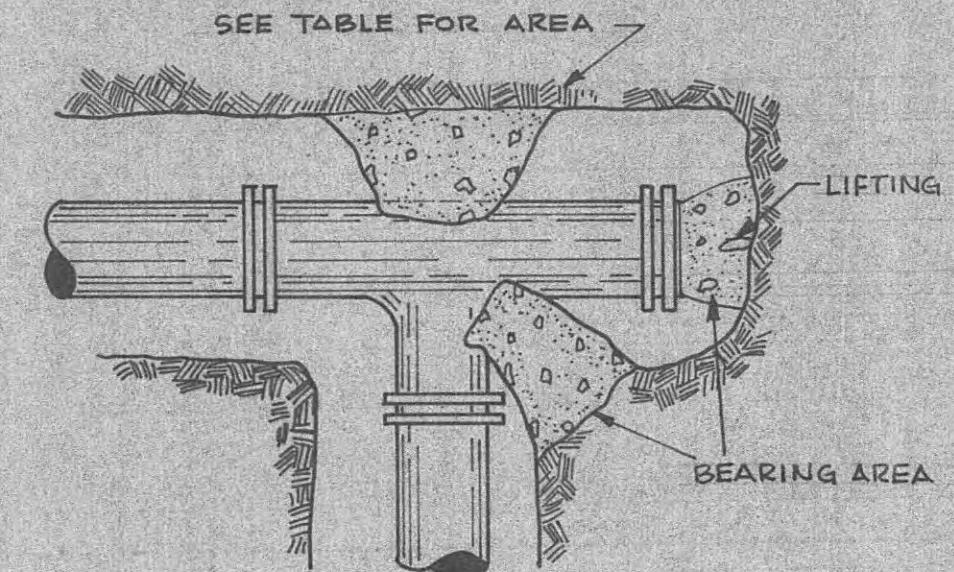
SHEET
NO.



TYPICAL REACTION BLOCKING-TEE



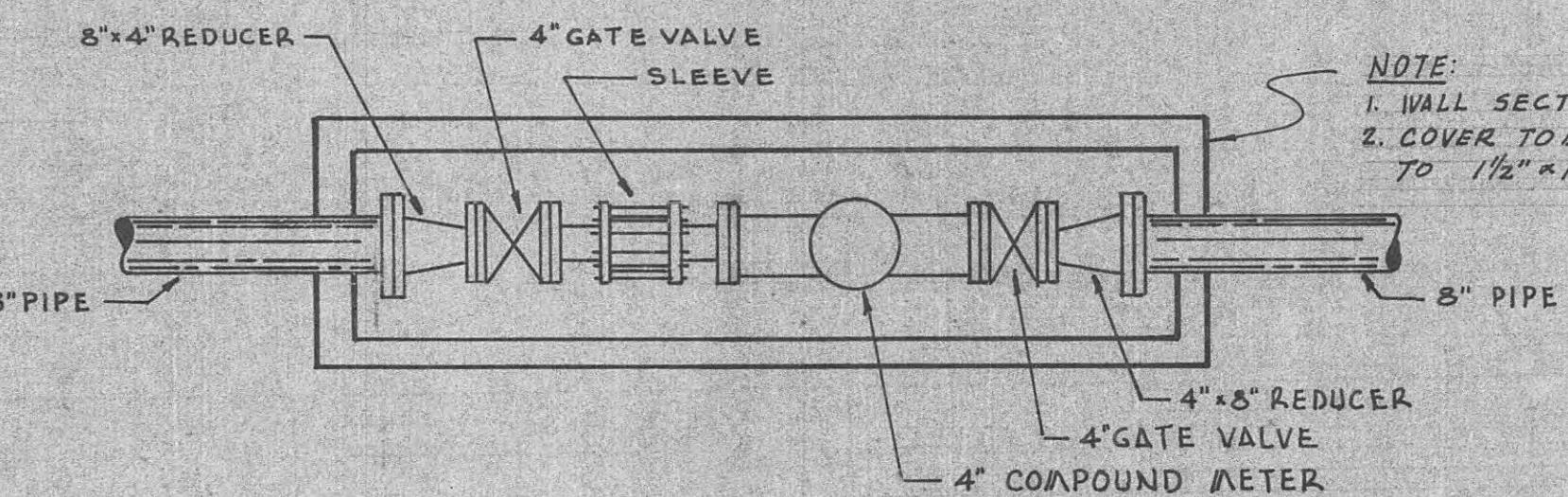
TYPICAL REACTION BLOCKING-BENDS



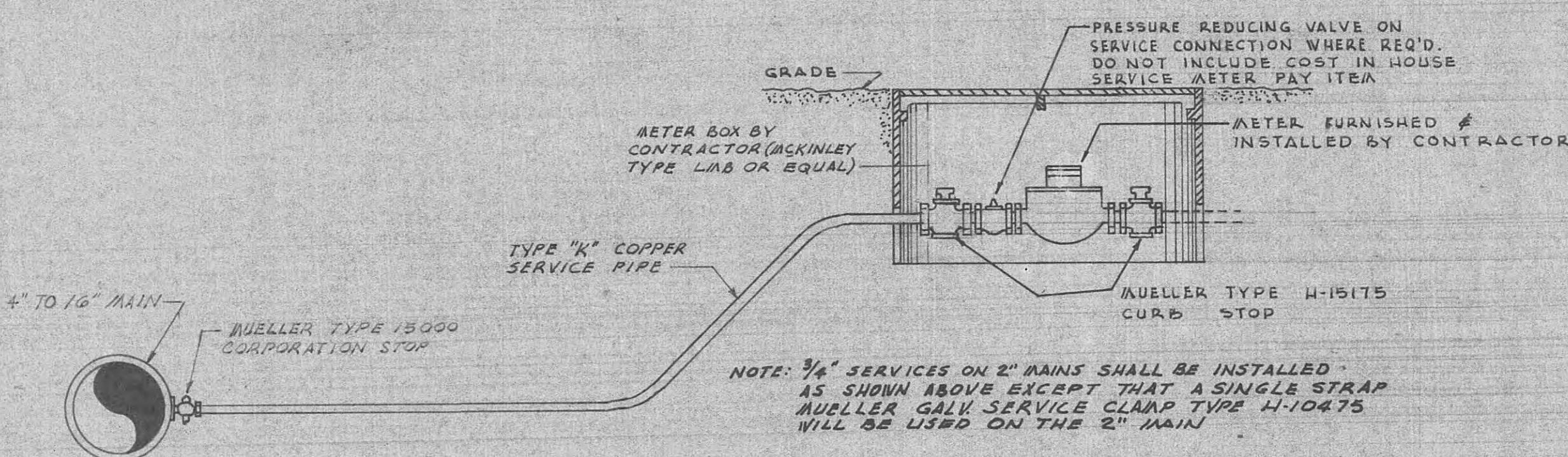
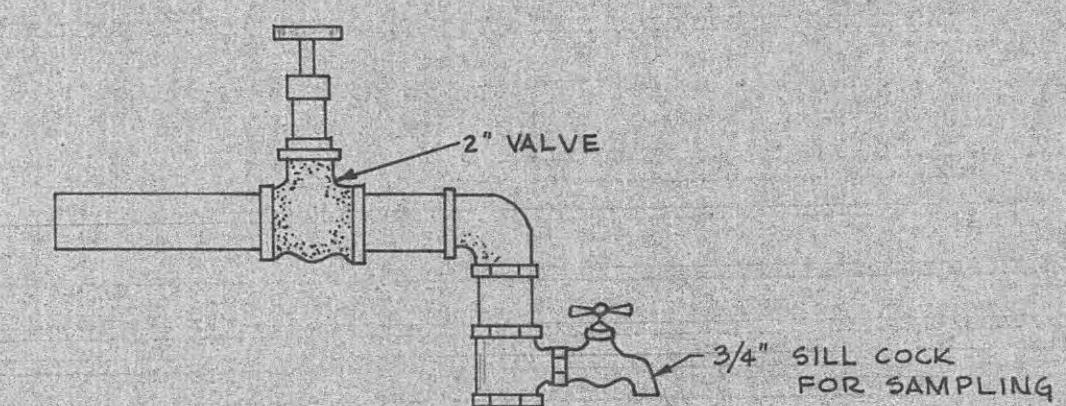
TYPICAL REACTION BLOCKING-BLANKED TEE

BEARING AREA TABLE (SQUARE FEET)				
PIPE CLASS	PIPE SIZE	90° BEND	45° BEND	TEE
150	4"	1.6	1.0	1.6
	6"	3.2	2.0	3.6
	8"	6.4	3.5	6.4
200	4"	1.9	1.0	1.9
	6"	4.3	2.3	4.3
	8"	7.6	4.1	7.6
250	4"	2.2	1.2	2.2
	6"	5.0	2.7	5.0
	8"	8.8	4.8	8.8

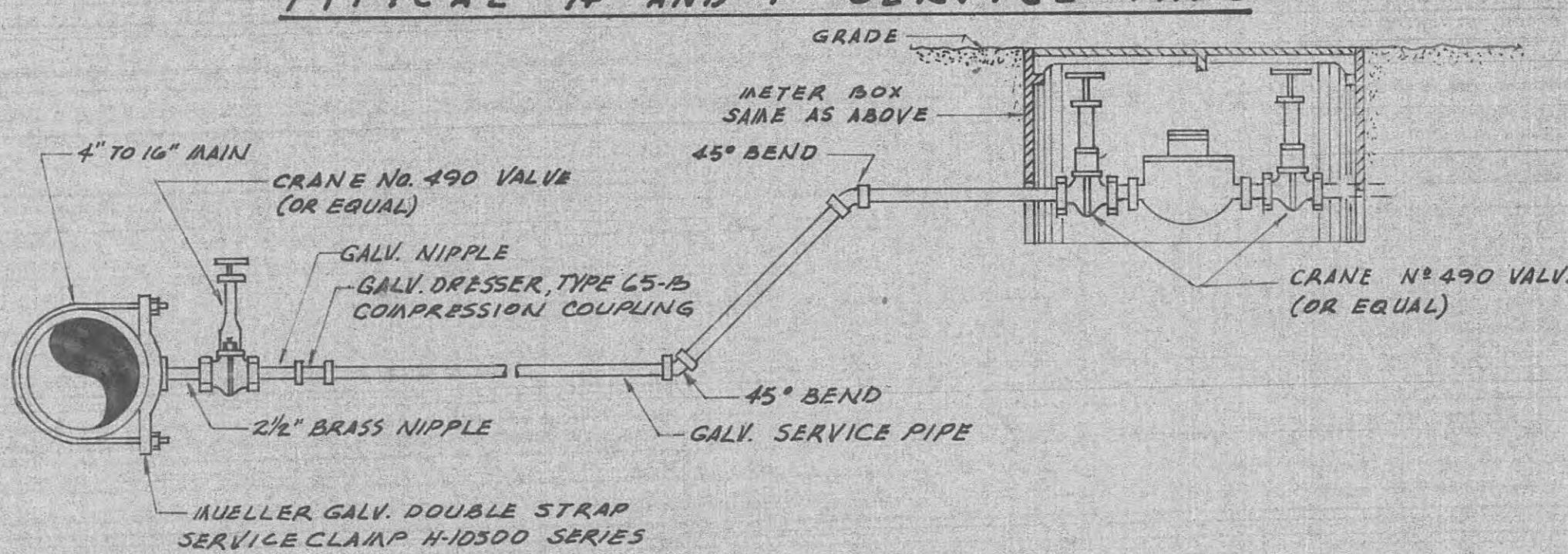
THE FIGURES IN THIS TABLE ARE BASED ON 3000 POUNDS PER SQUARE FOOT SOLE BEARING AGAINST UNDISTURBED TRENCH WALL AND ARE NOT REPRESENT THE MINIMUM RECOMMENDED AREA OF THE REACTION BLOCK IN A PLANE PERPENDICULAR TO A LINE BISECTING THE INCLUDED ANGLE OF THE FITTING.



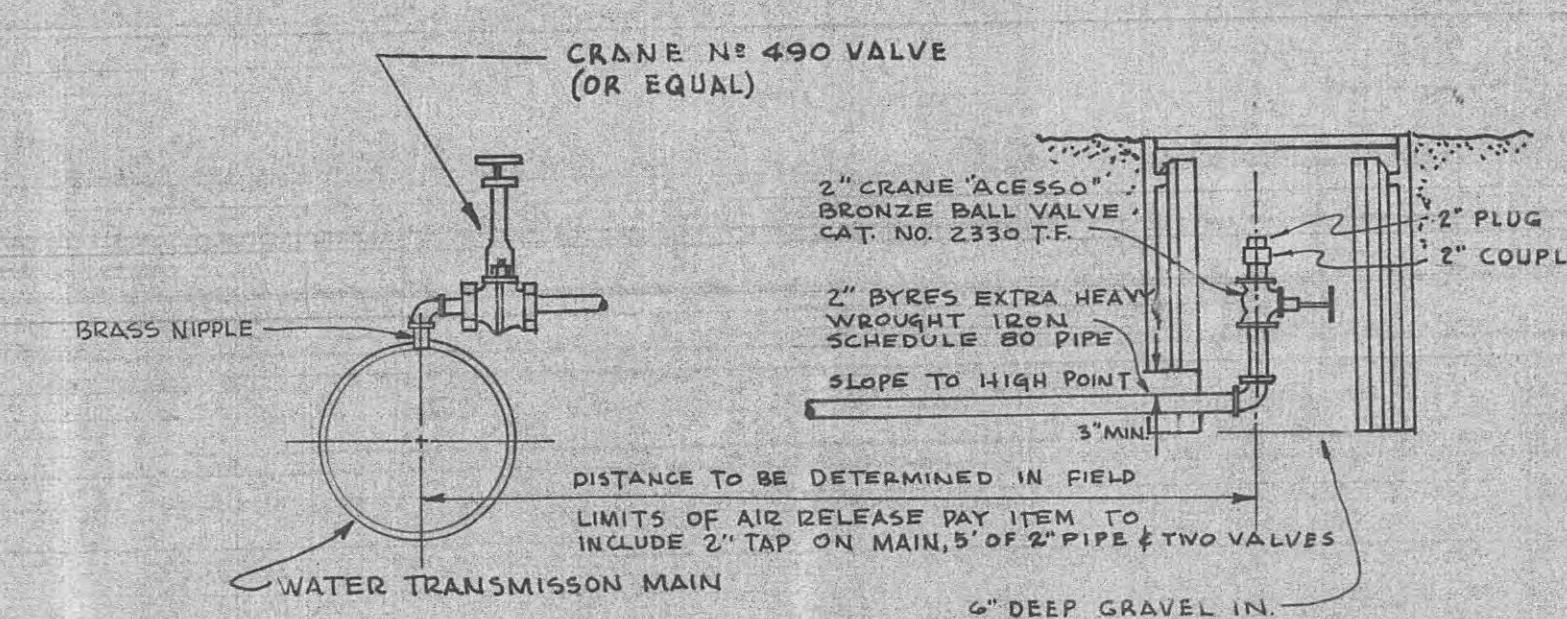
MAIN SERVICE METER



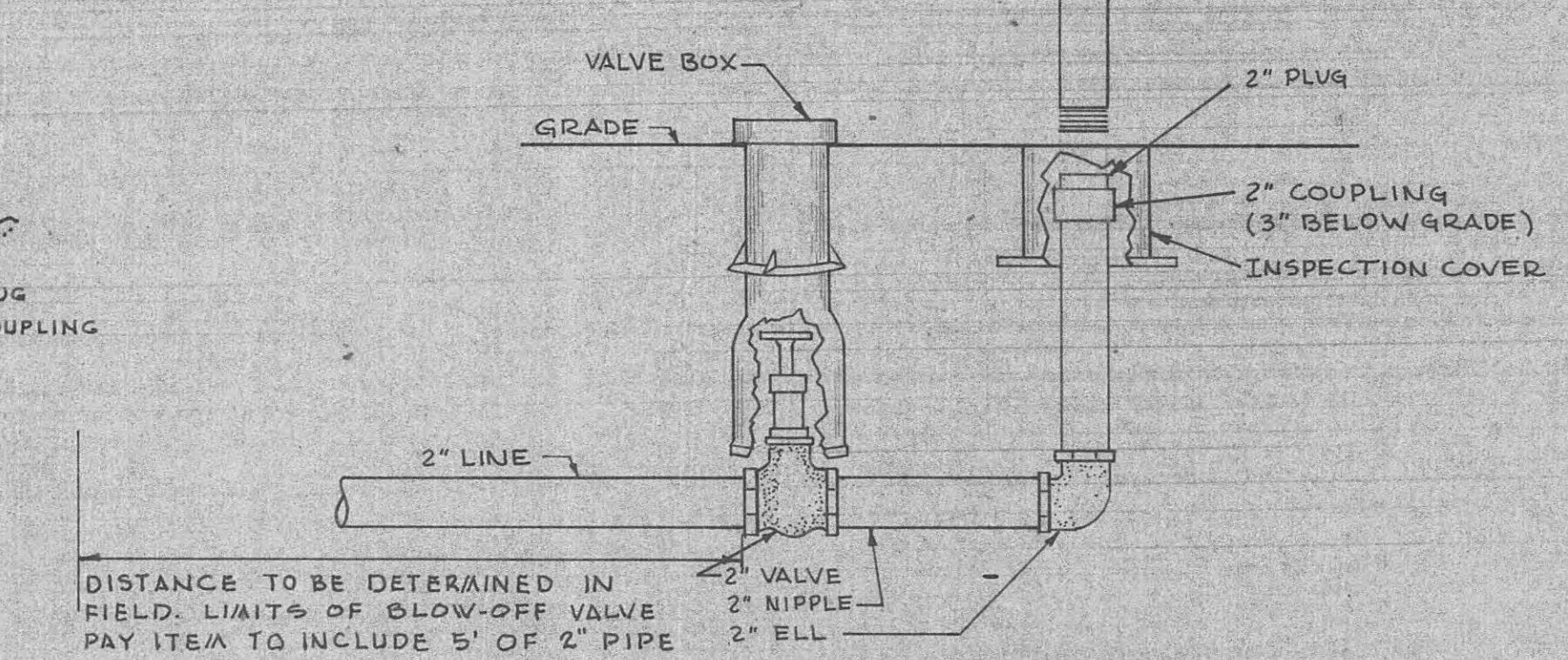
TYPICAL 3/4" AND 1" SERVICE TAPS



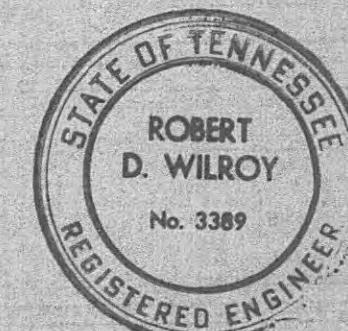
TYPICAL 1/2" AND 2" SERVICE TAPS



AIR RELEASE DETAIL



BLow-OFF VALVE &
FLUSH-SAMPLING ARRANGEMENT



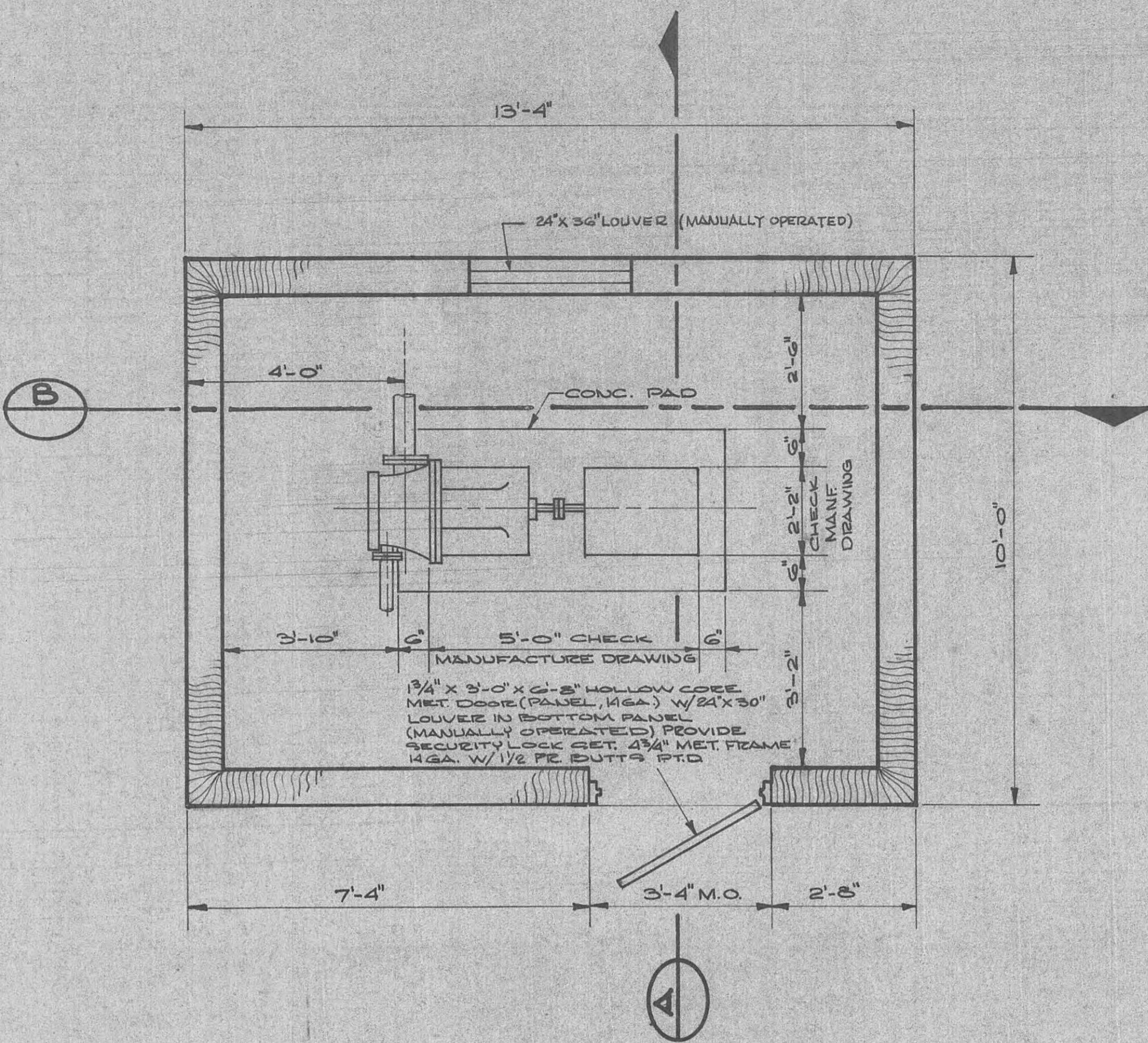
WATER SYSTEM IMPROVEMENTS
For WOLFE BRANCH UTILITY DISTRICT
MORGAN & ROANE Co., TENNESSEE

BLACK, CROW AND EIDNESS, INC.
ENGINEERS

GAINESVILLE FLORIDA
DRAWN BY: M.M. DATE: OCT. 1968
CHECKED BY: T.D.R. FILE NO.: 462-68-1

SCALE: AS NOTED

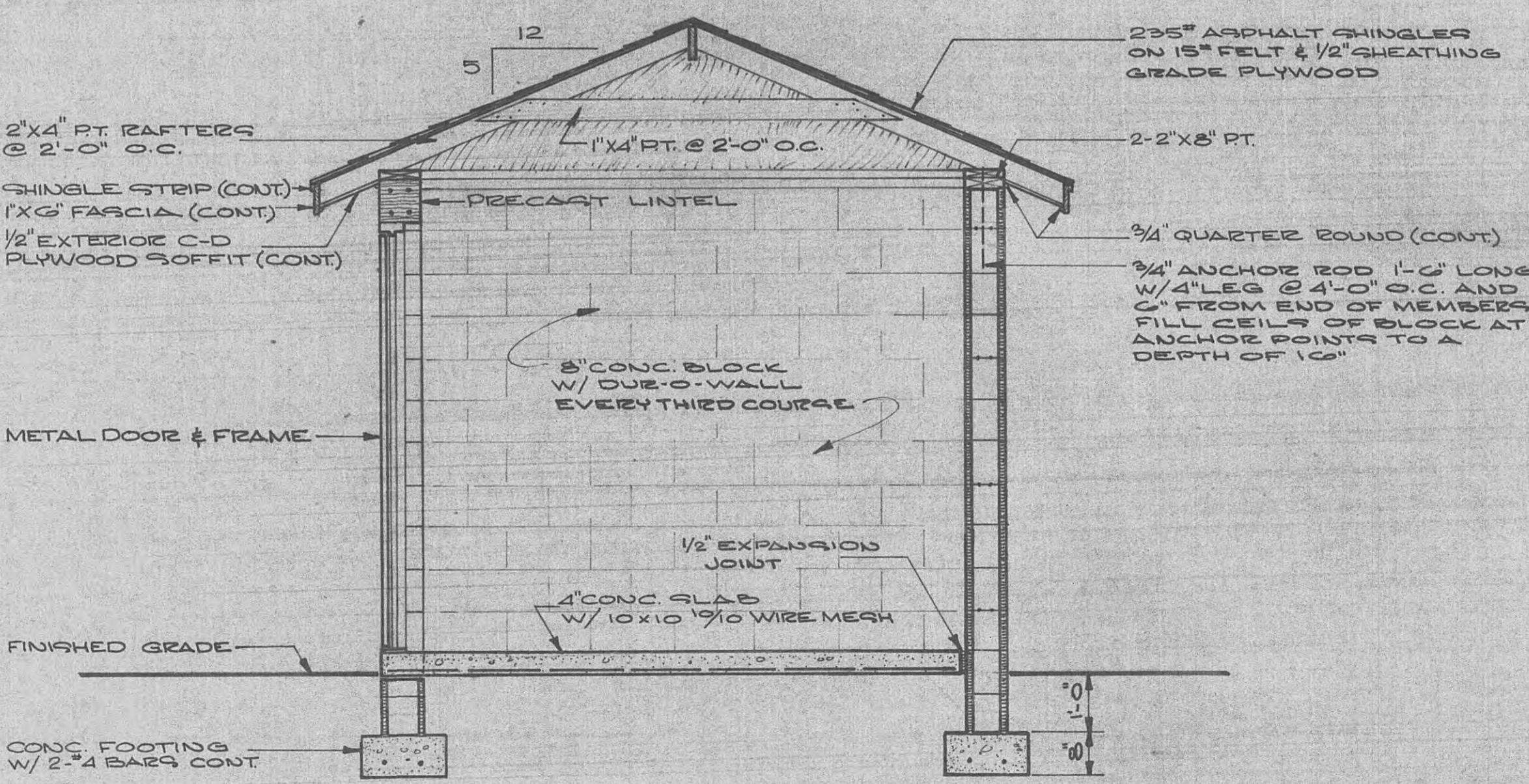
TYPICAL DETAILS SHEET NO. J5



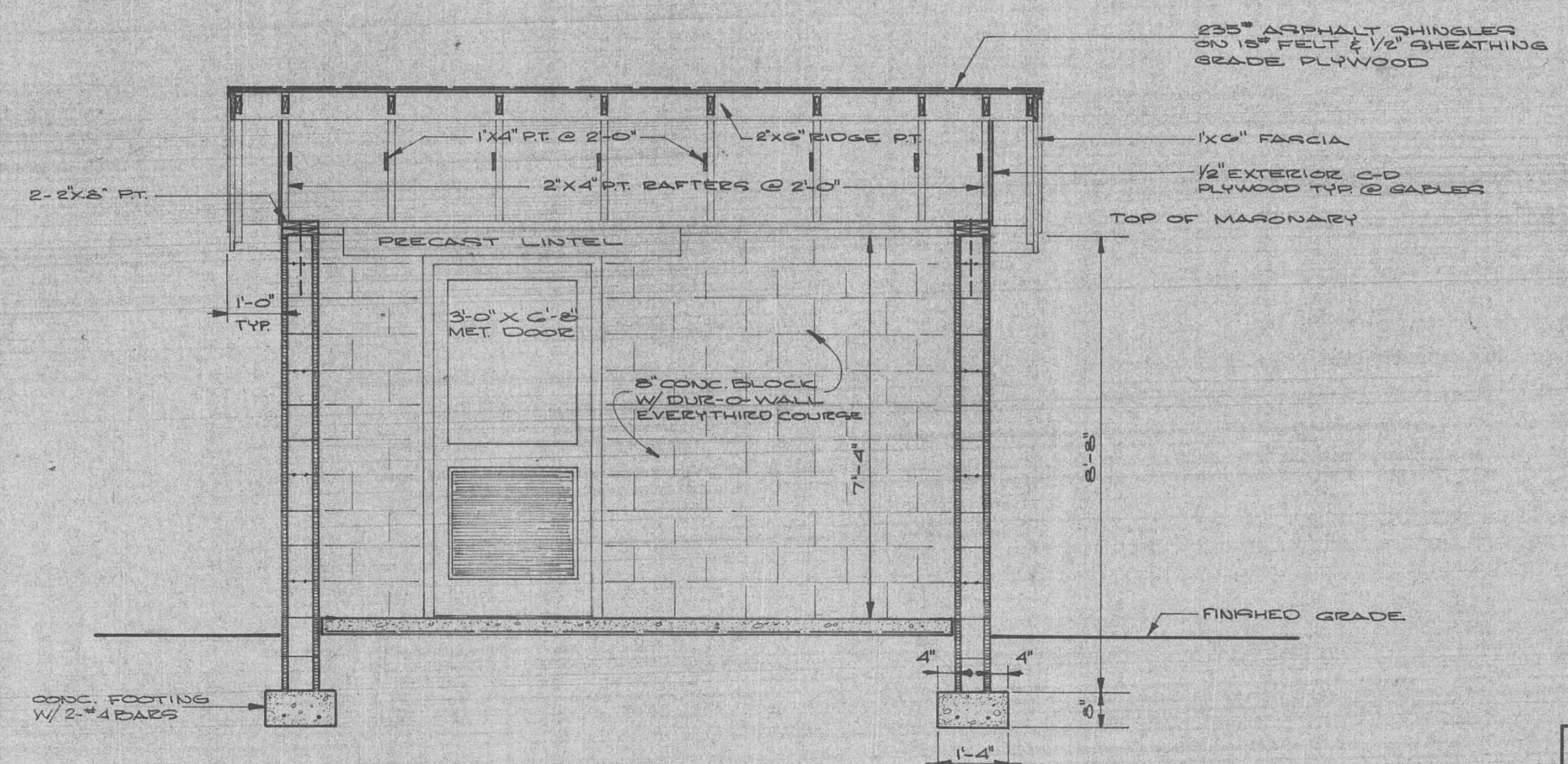
PLAN OF PUMP HOUSE #1, 2, 3 & 4

SCALE

1'2" = 1'-0"



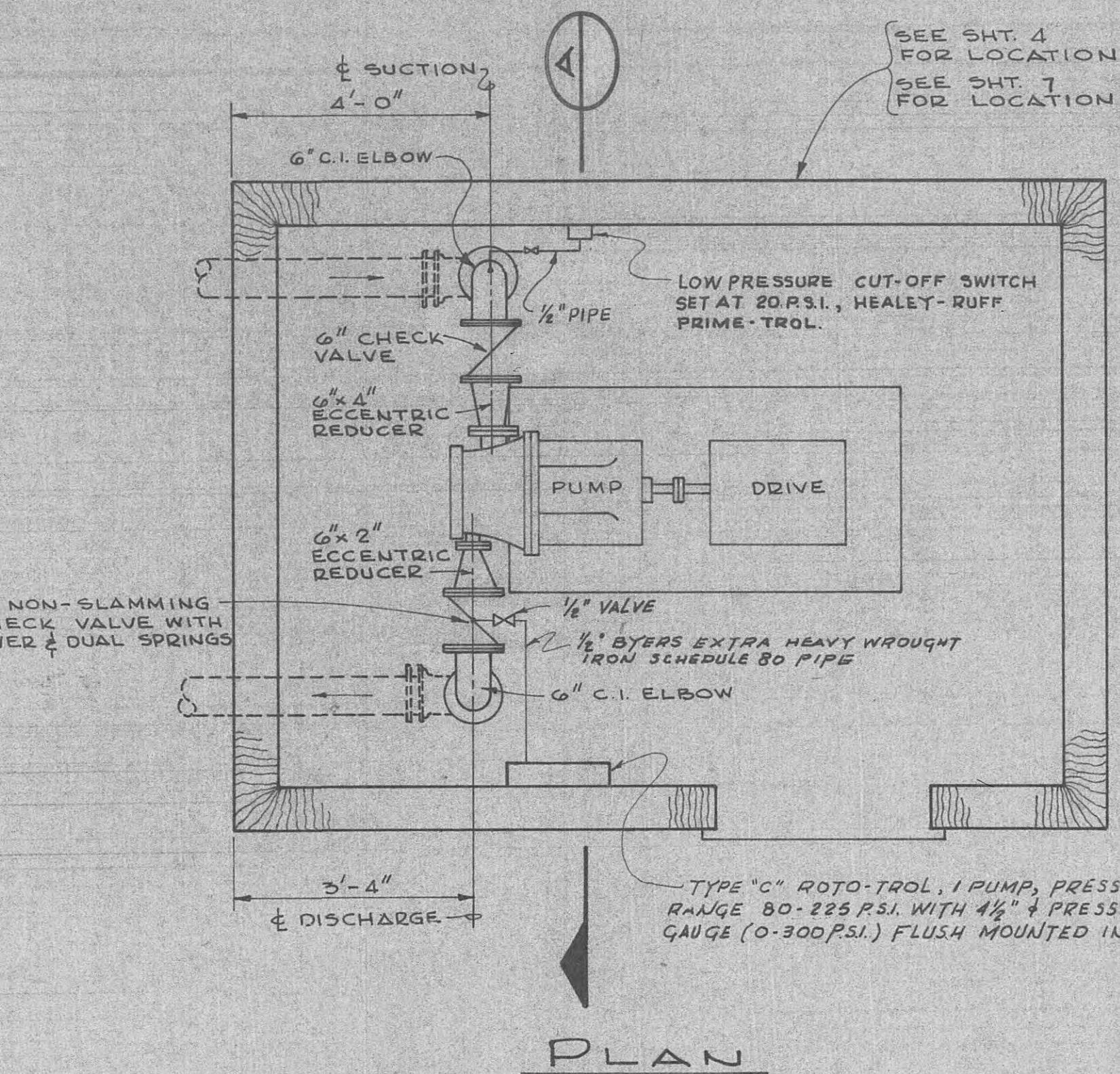
SECTION
SCALE 1'2" = 1'-0"



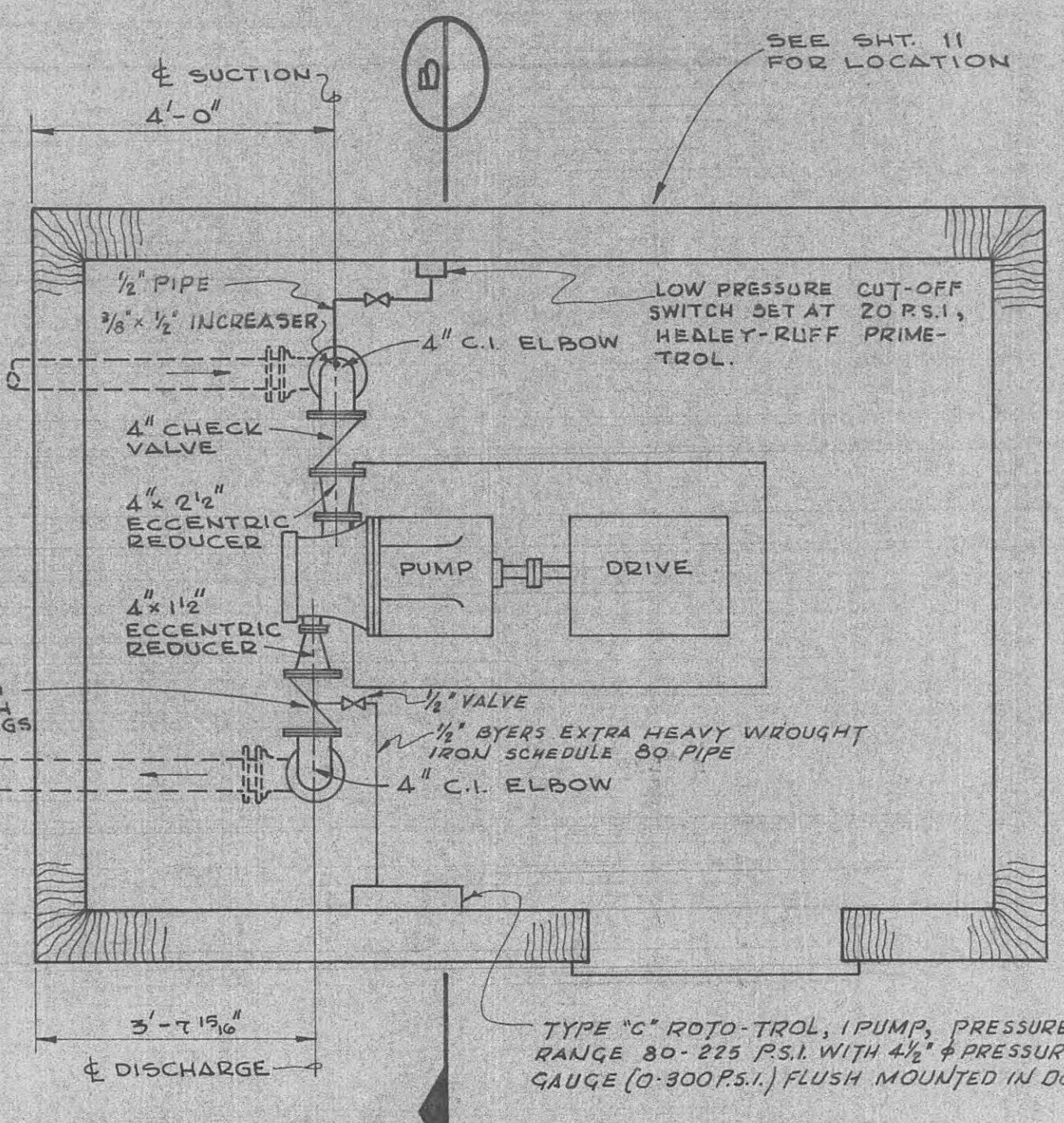
SECTION
SCALE 1'2" = 1'-0"

WATER SYSTEM IMPROVEMENTS For WOLFE BRANCH UTILITY DISTRICT MORGAN & ROANE CO'S, TENNESSEE		
BLACK, CROW AND EIDSNESS, INC. ENGINEERS GAINESVILLE, FLORIDA		
DRAWN BY: T.G.E. DATE: OCT. 1968 CHECKED BY: T.D.R. FILE NO.: 402-68-1 SCALE: AS NOTED		
PUMP STATIONS No's 1, 2, 3 AND 4		
NO.	DESCRIPTION	DATE
REVISIONS		

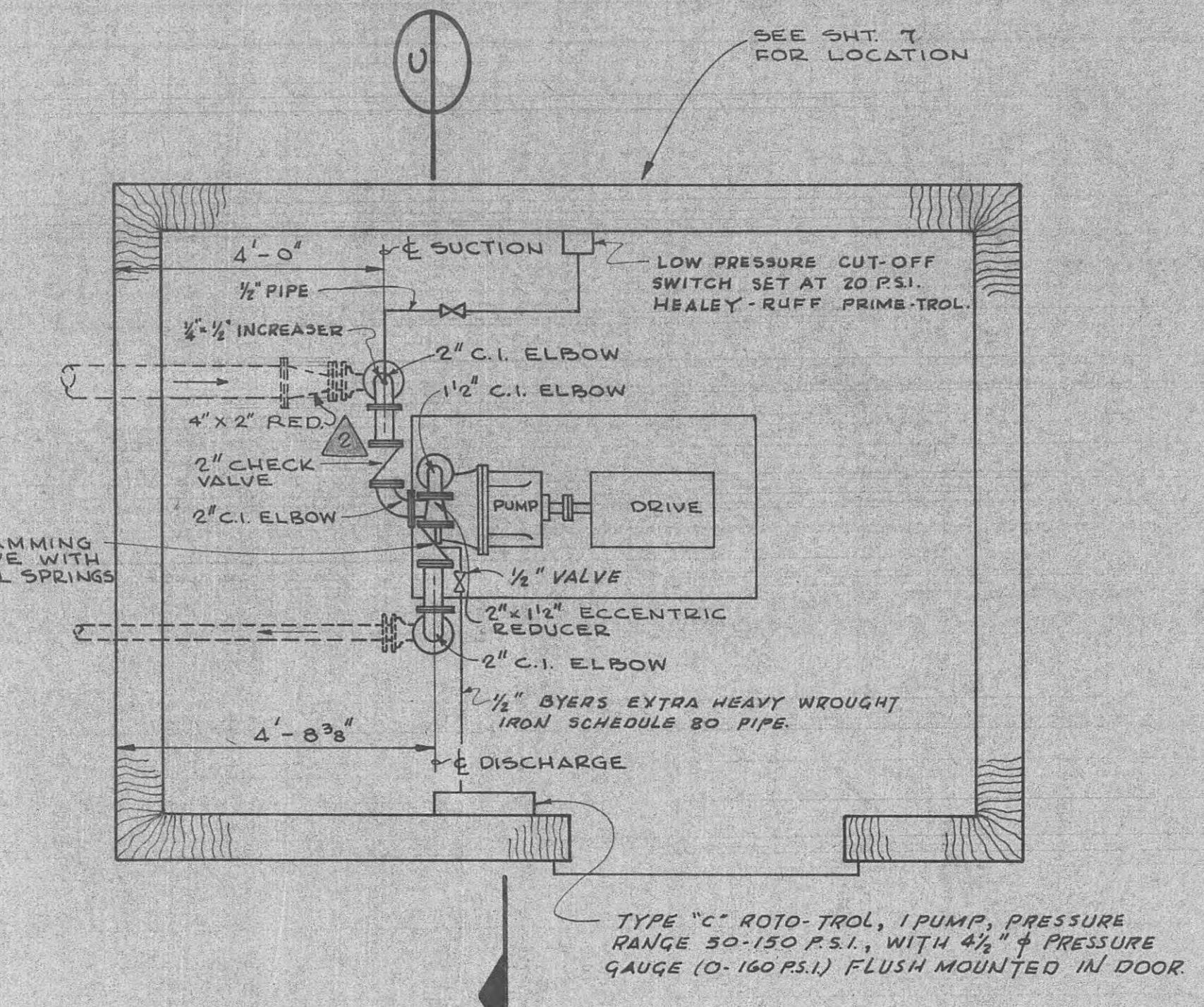
SHEET NO. 16



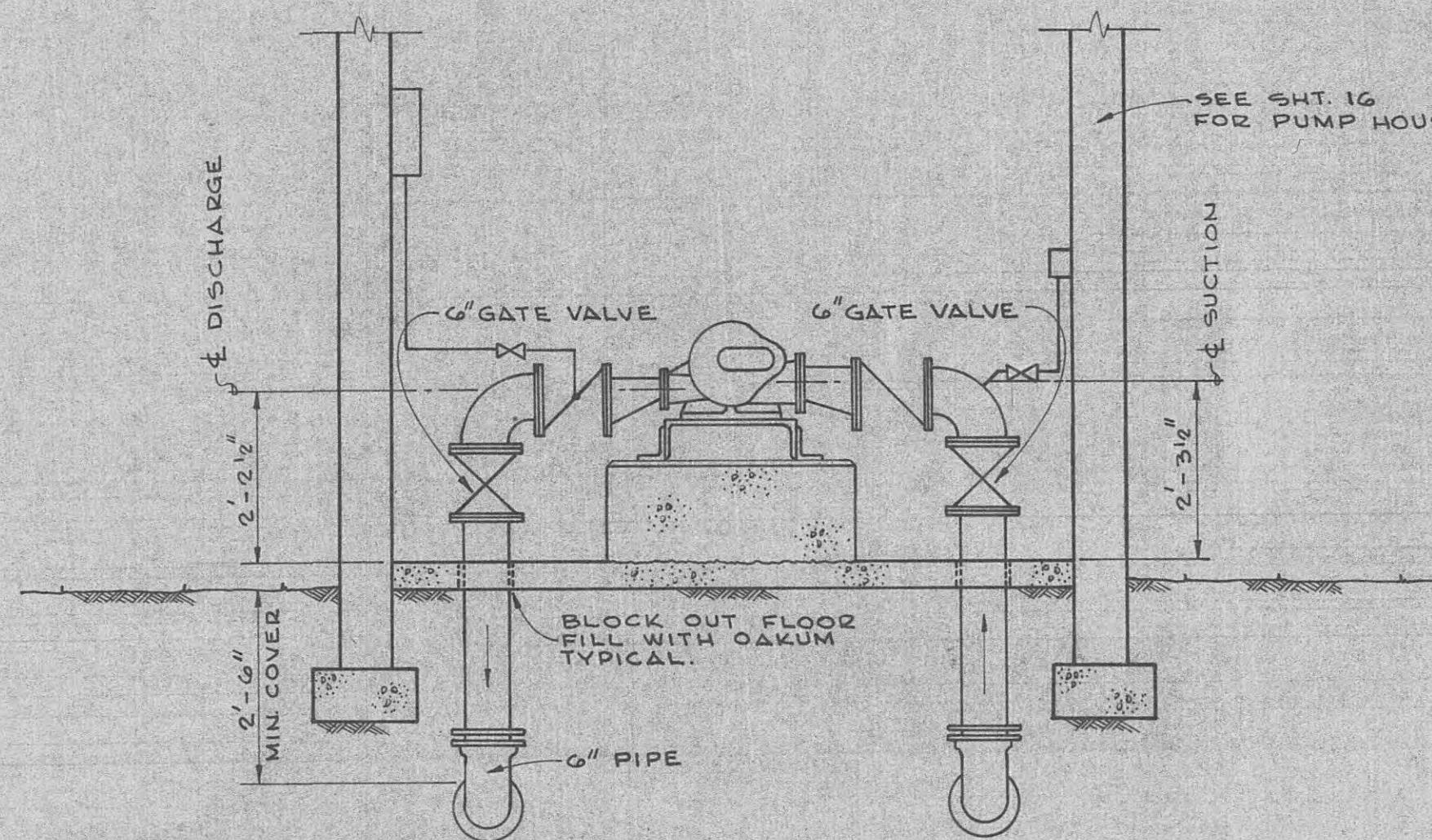
PLAN



PLAN

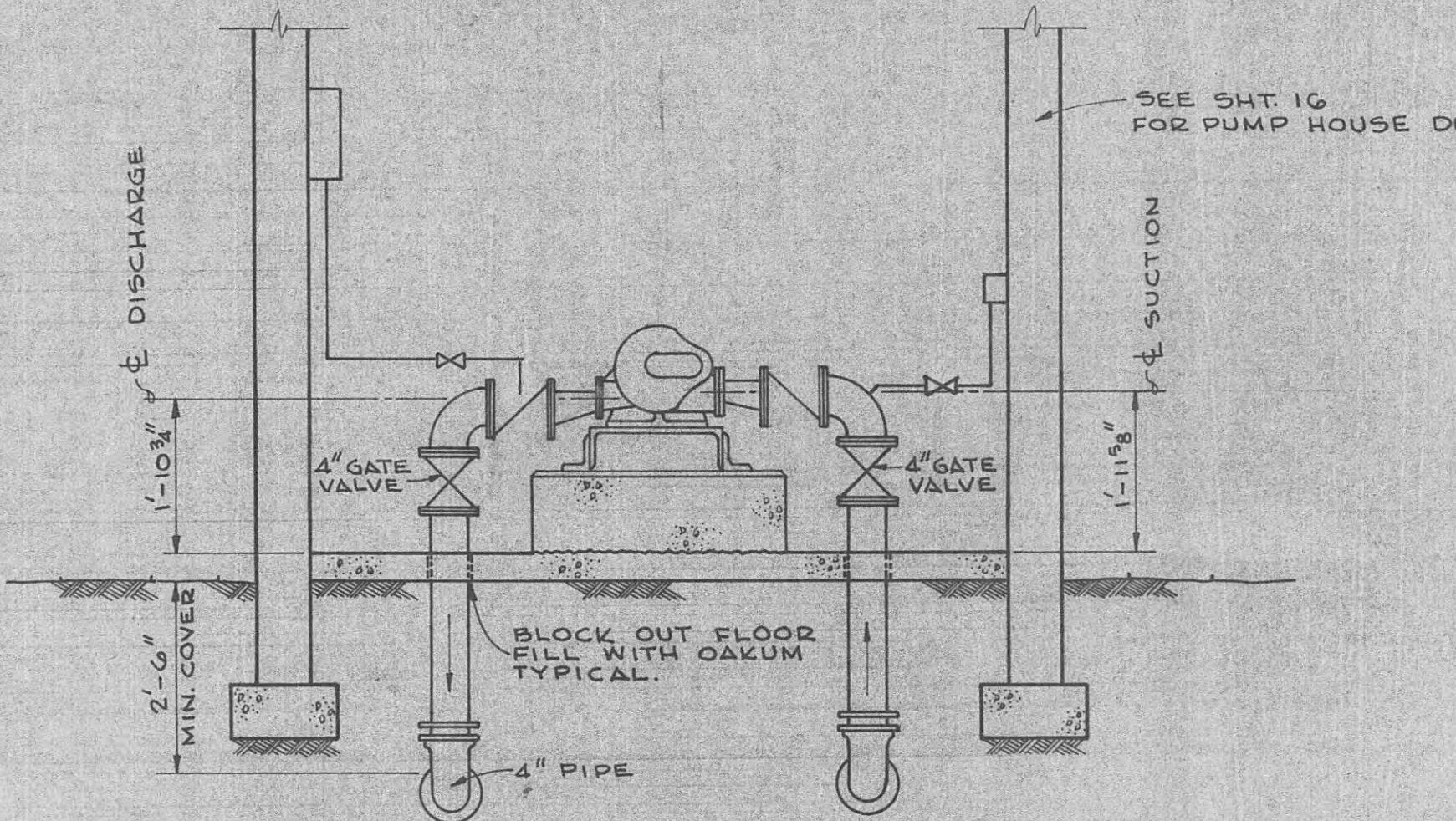


PLAN



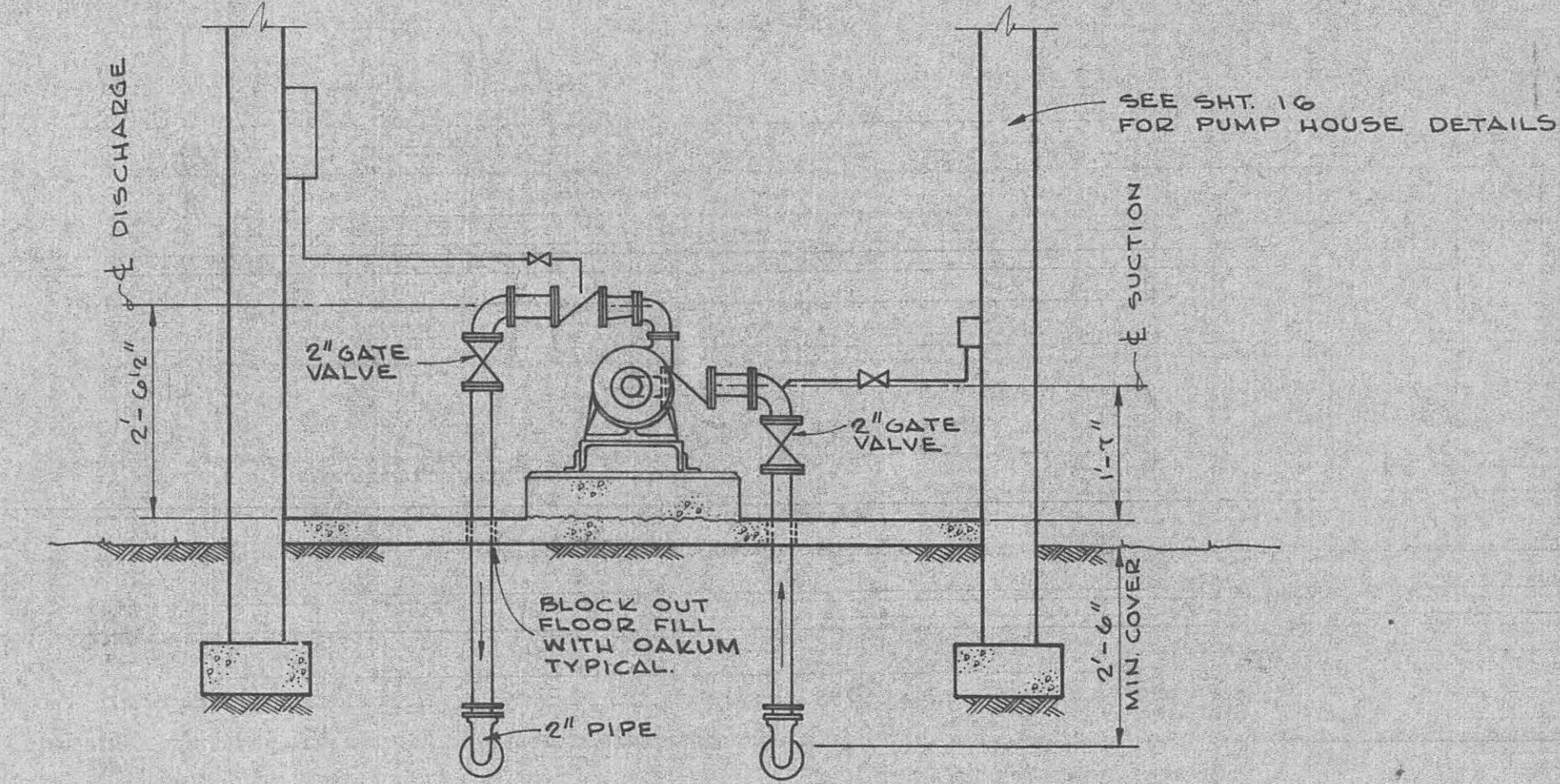
SECTION A

PUMP HOUSE #1&4



SECTION B

PUMP HOUSE #2



SECTION C

PUMP HOUSE #3



WATER SYSTEM IMPROVEMENTS FOR WOLFE BRANCH UTILITY DISTRICT MORGAN & ROANE CO., TENNESSEE			
BLACK, CROW AND EIDSNESS, INC. ENGINEERS GAINESVILLE, FLORIDA			
DRAWN BY: R.M. CHECKED BY: T.D.P. SCALE: 1/2" = 1'-0"	DATE: OCT 1968 FILE NO.: 462-GB-1		
<table border="1"> <tr> <td>GENERAL REVISION GENERAL REVISION NO. 1 DESCRIPTION REVISIONS</td> <td>6/17/68 3/12/69 DATE</td> </tr> </table>		GENERAL REVISION GENERAL REVISION NO. 1 DESCRIPTION REVISIONS	6/17/68 3/12/69 DATE
GENERAL REVISION GENERAL REVISION NO. 1 DESCRIPTION REVISIONS	6/17/68 3/12/69 DATE		
PIPING PLANS FOR PLIMP STATIONS No. 1, 2, 3, AND 4.			
SHEET NO. 17			

WATER SYSTEM

FOR

WOLFE BRANCH UTILITY DISTRICT

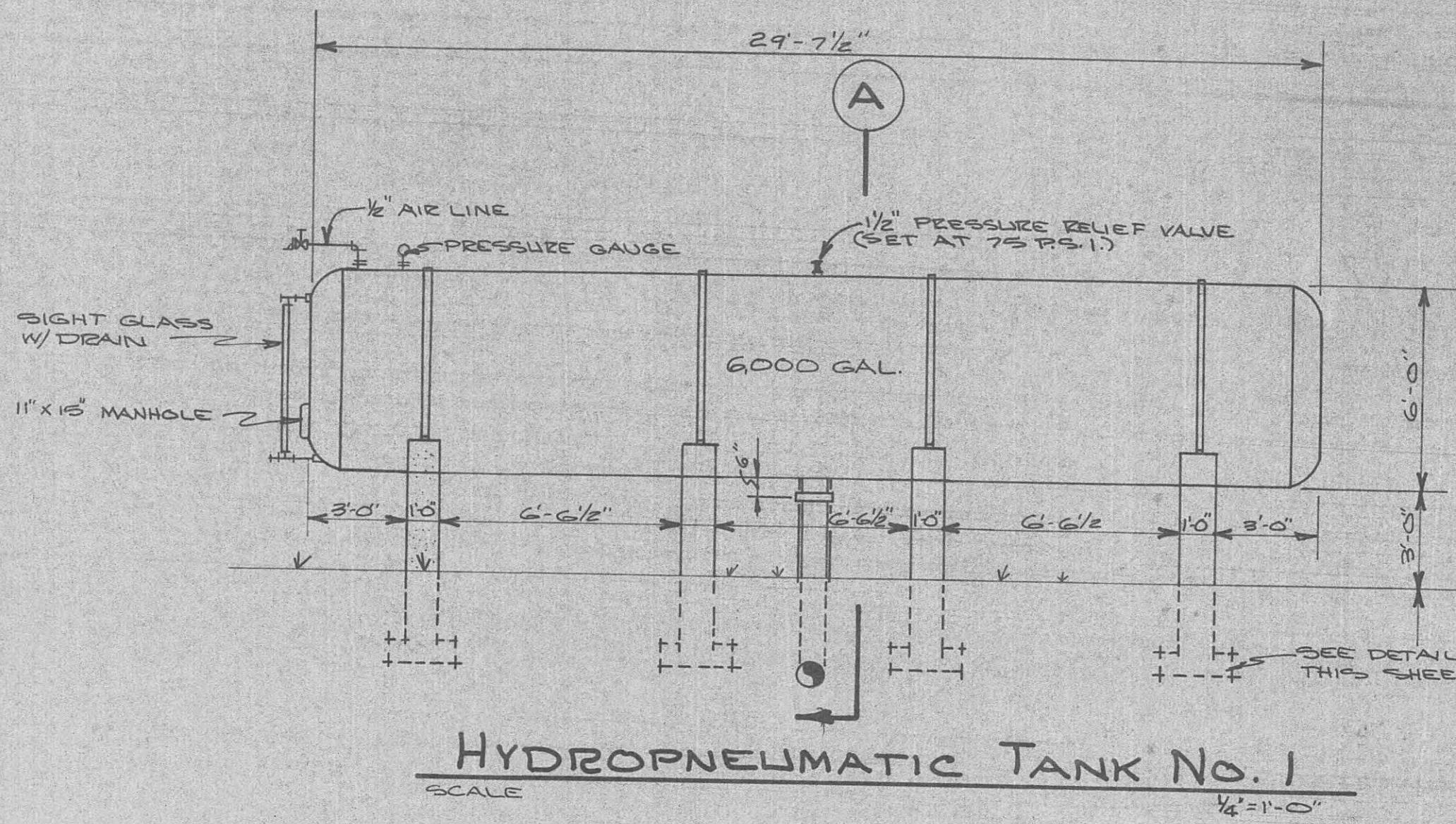
HARRIMAN, TENNESSEE

BLACK CROW AND EIDNESS, INC.

ENGINEERS

GAINESVILLE, FLORIDA
CLEARWATER, BOCA RATON, NAPLES, FLORIDA
ATLANTA, GEORGIA SAN JOSE, COSTA RICA

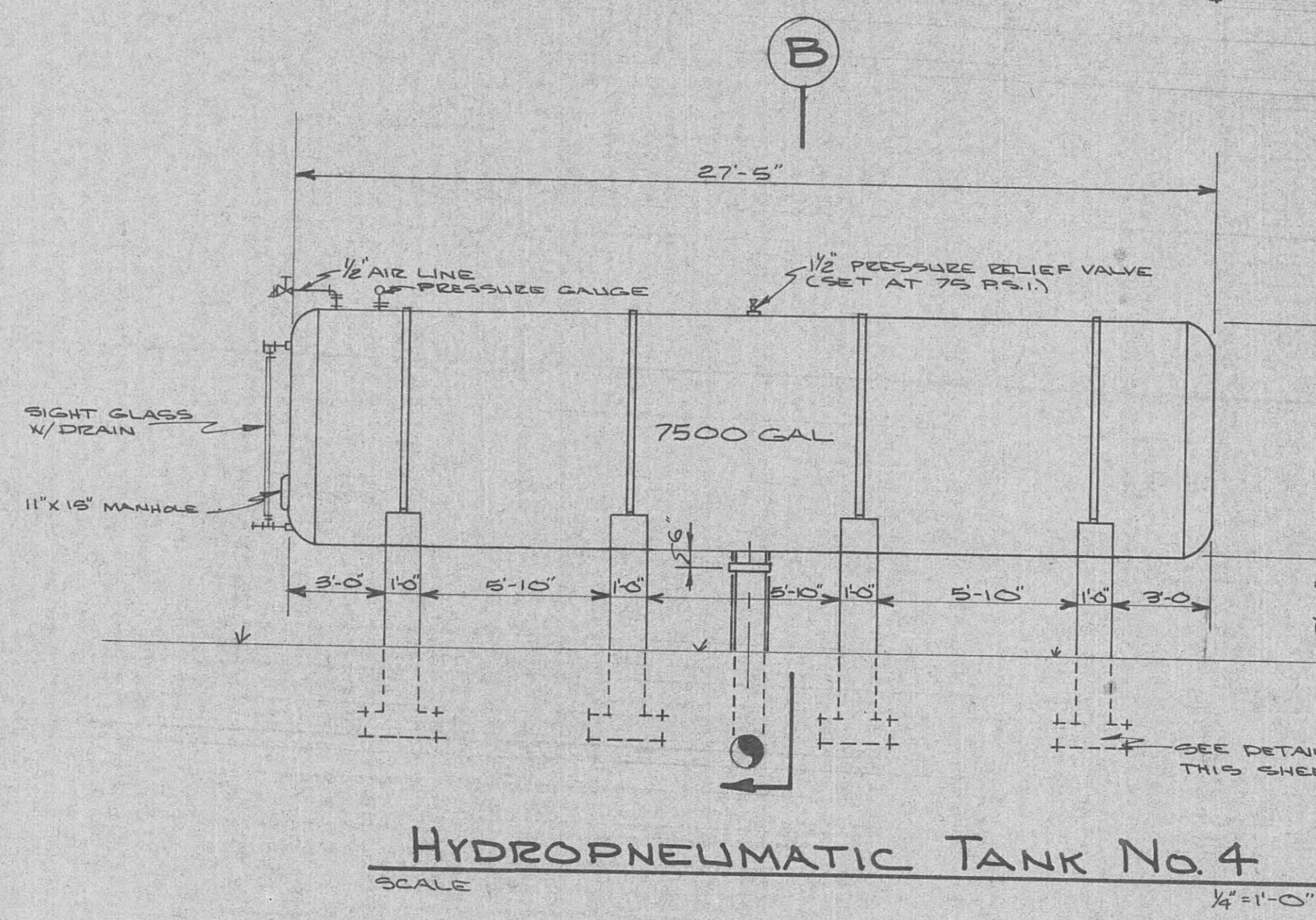
PROJECT NO 462 68]



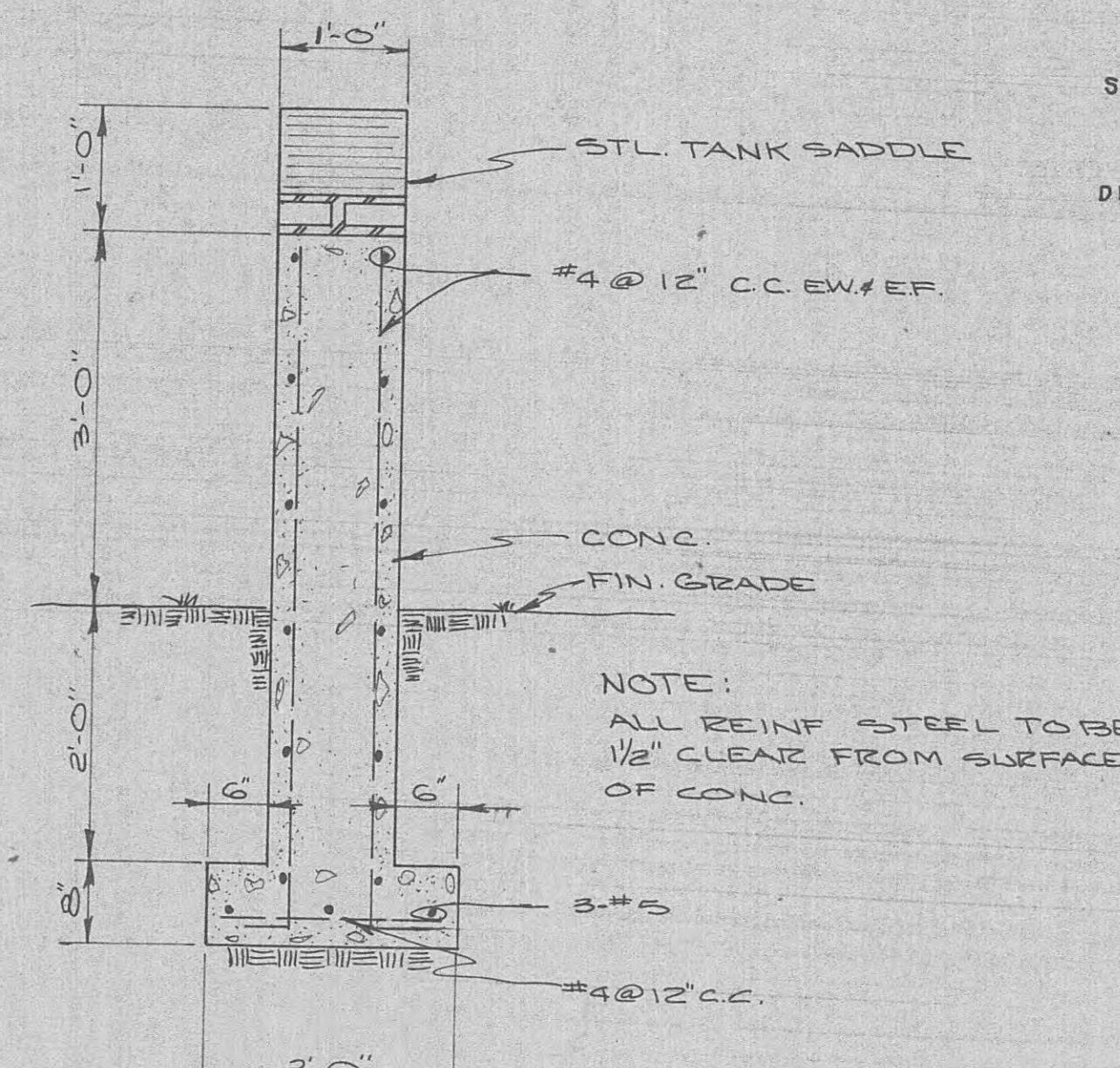
LIMIT PAY ITEM FOR TANK NO

SECTION "A"

SCALE $\frac{1}{4}'' = 1'-0''$

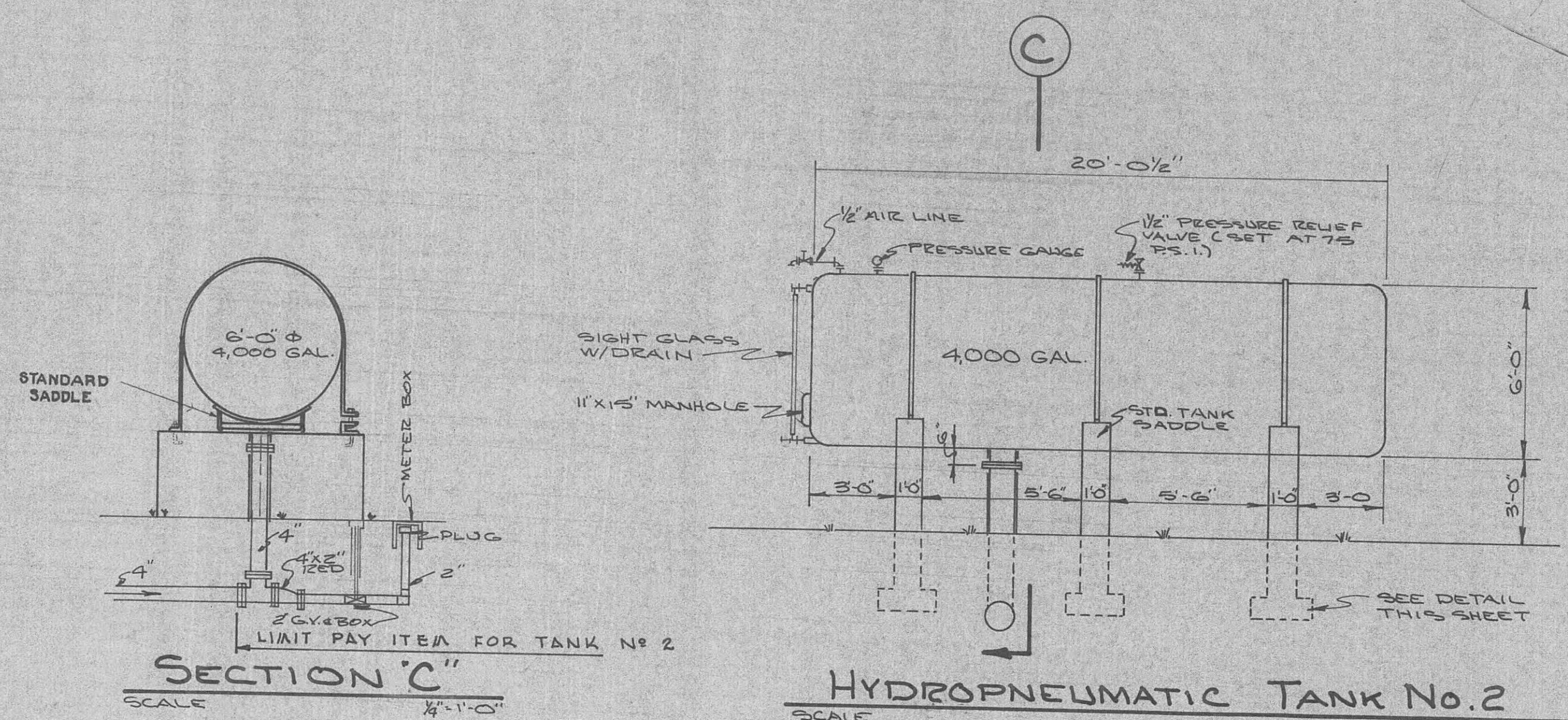
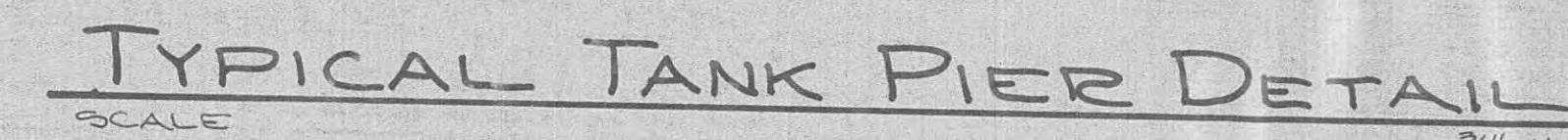


SECTION "B"

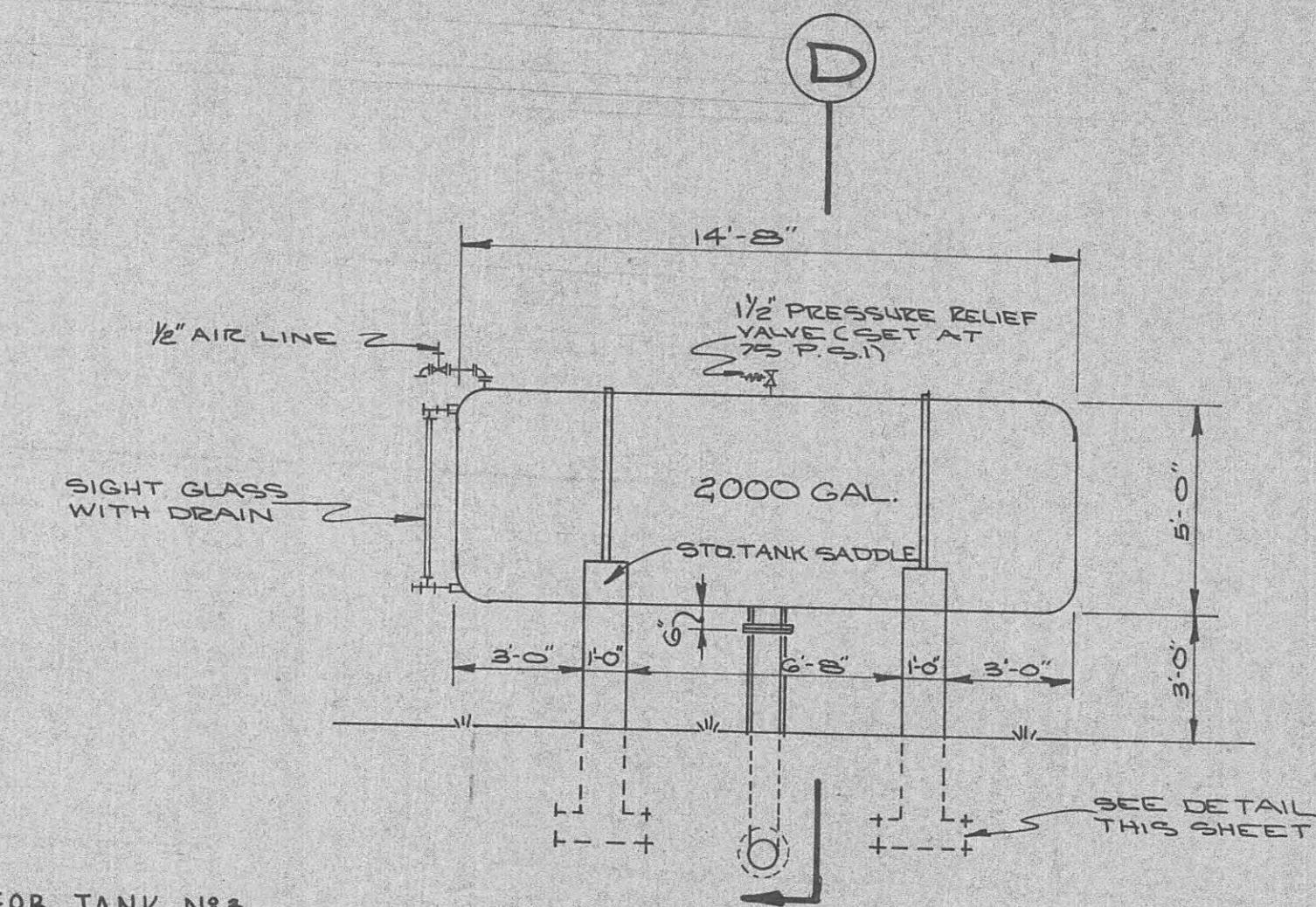


SECTION

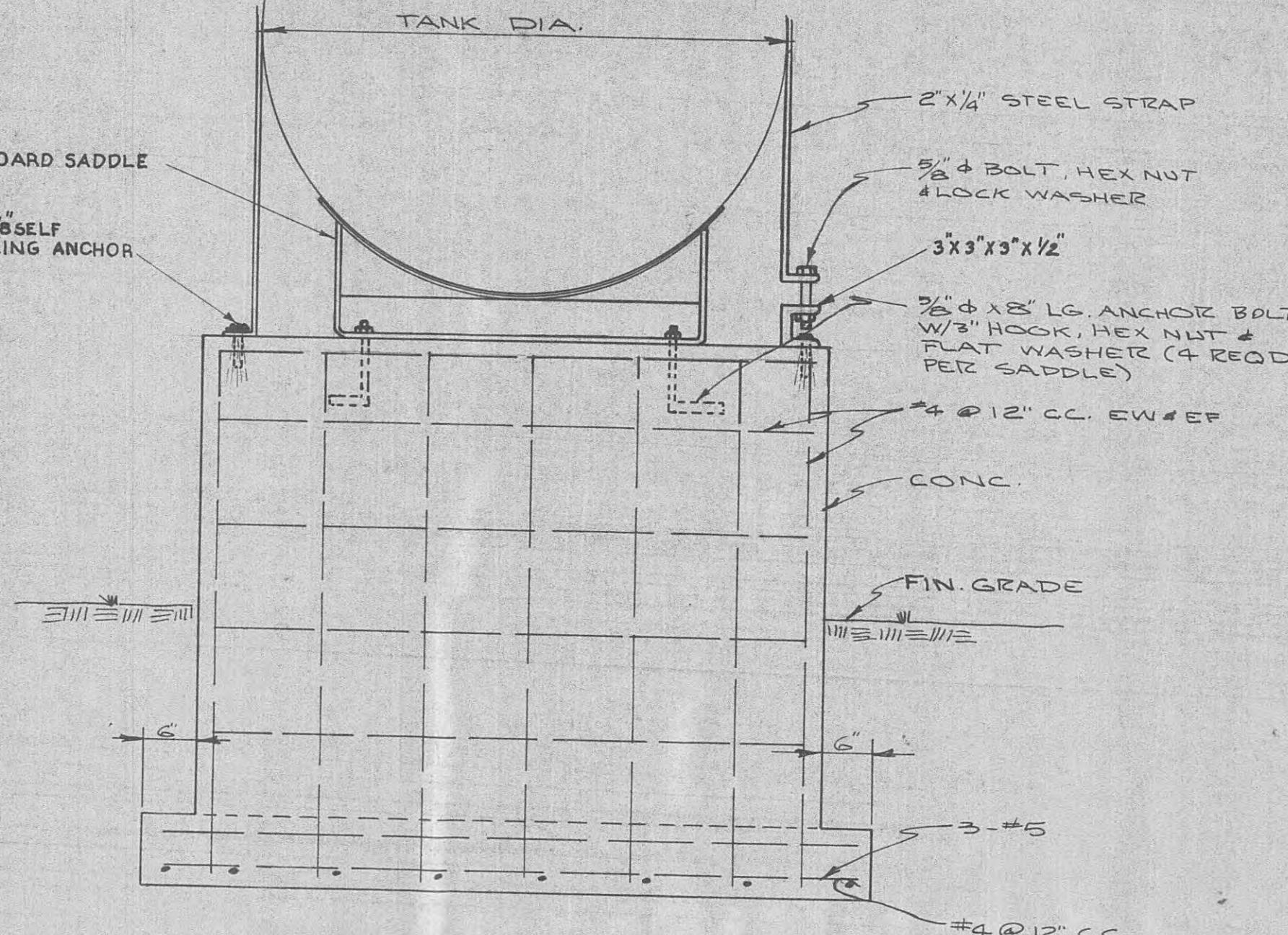
ELEVATION



SECTION 'C'

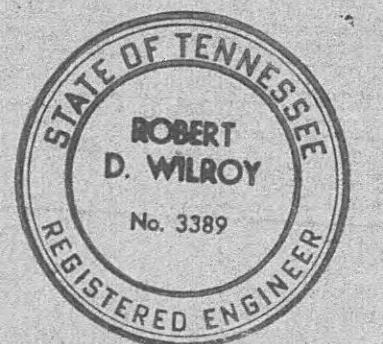


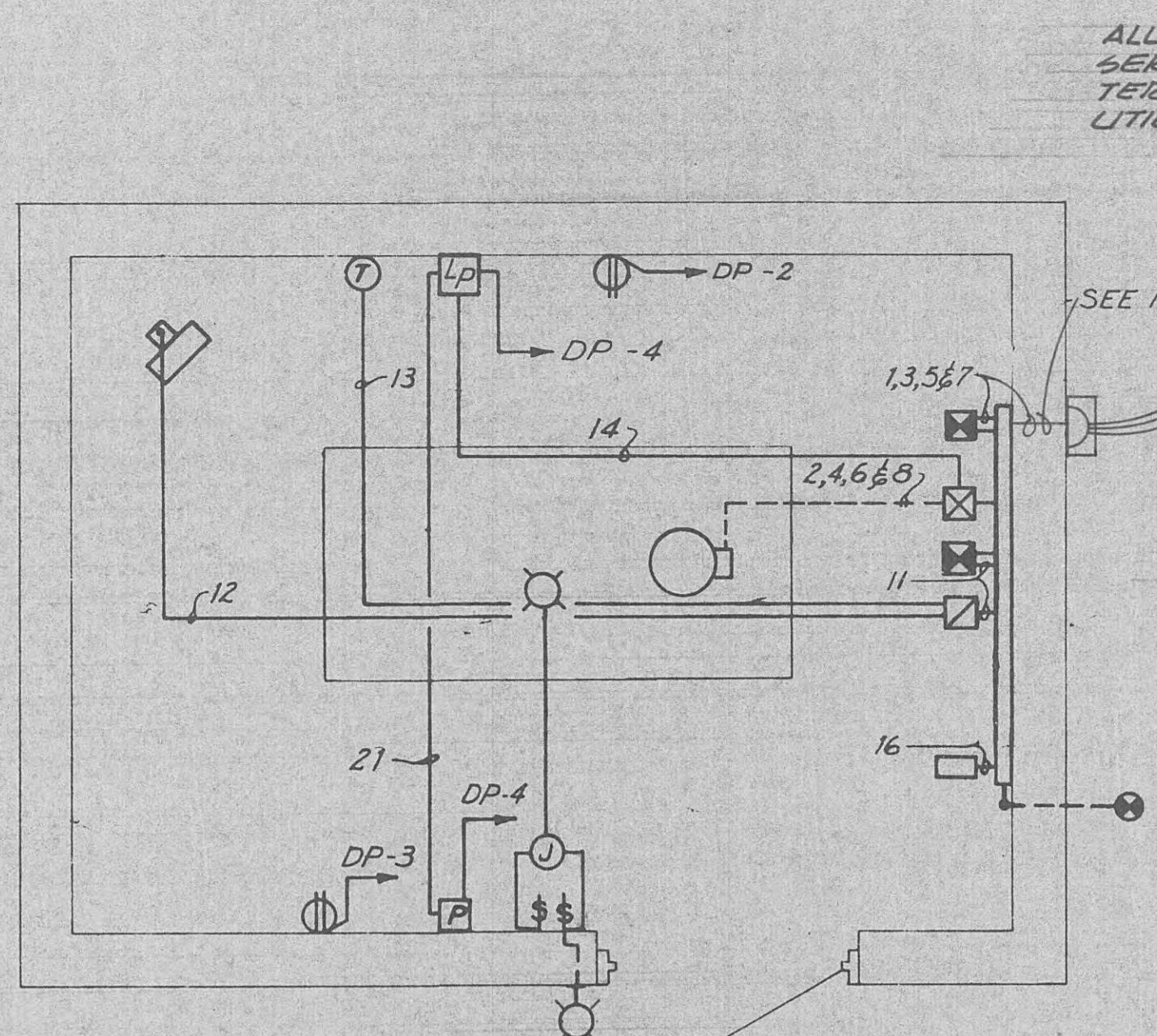
HYDROPNEUMATIC TANK NO. 3



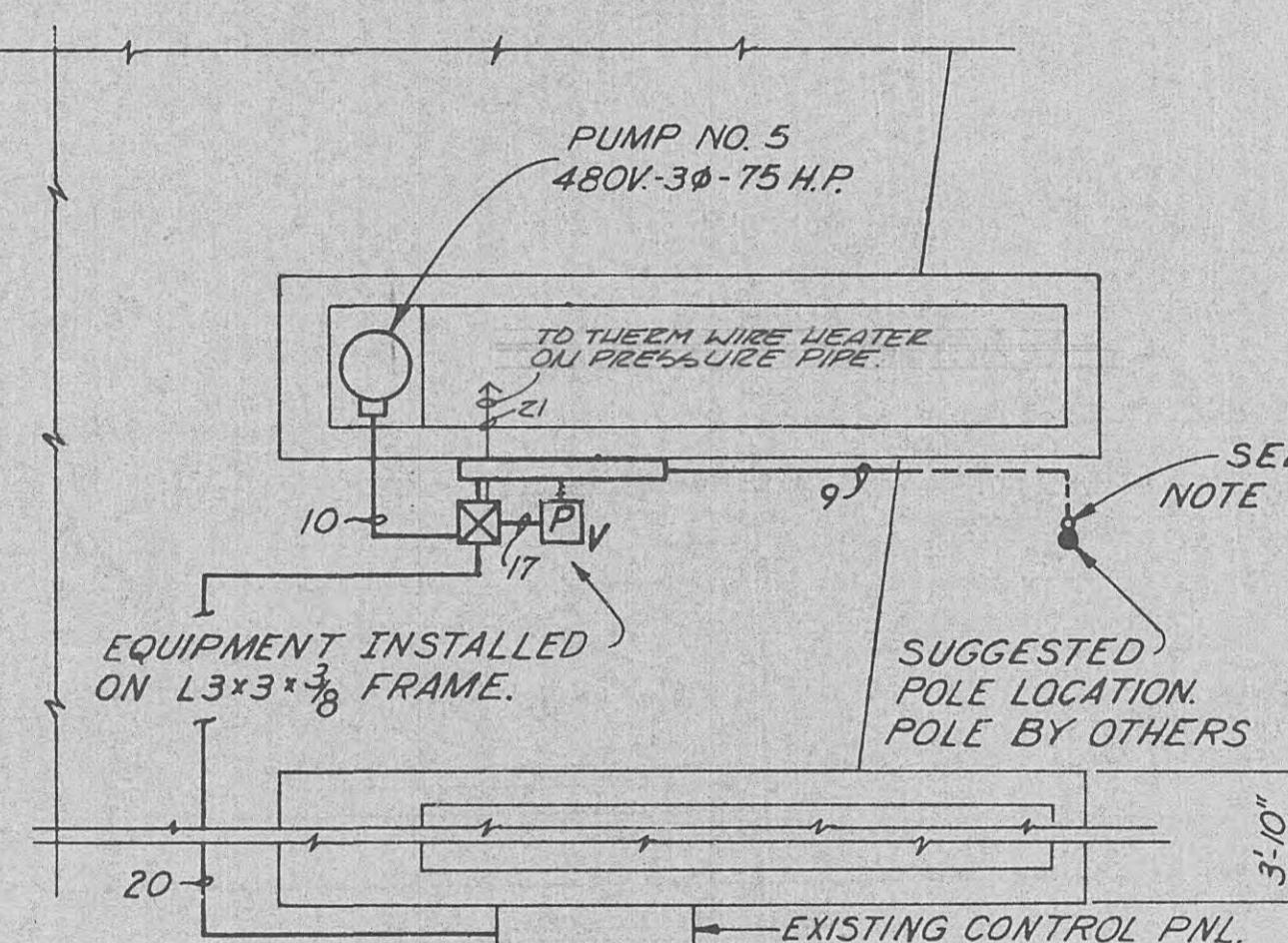
WATER SYSTEM IMPROVEMENTS
FOR WOLFE BRANCH UTILITY DISTRICT
MORGAN & ROANE CO^S, TENNESSEE

BLACK, CROW AND EIDSNESS, INC.
ENGINEERS
GAINESVILLE FLORIDA
DRAWN BY: ROE DATE: OCT. '68
CHECKED BY: FILE NO.: 462-68-
SCALE: AS SHOWN

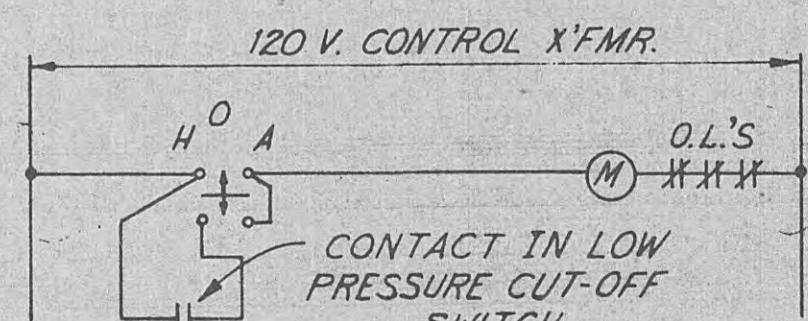




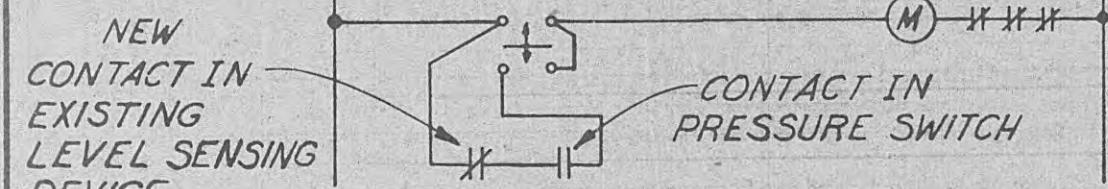
TYPICAL POWER PLAN
PUMP STATION NOS 1, 2, 3 & 4
SCALE: 1/2"=1'-0"



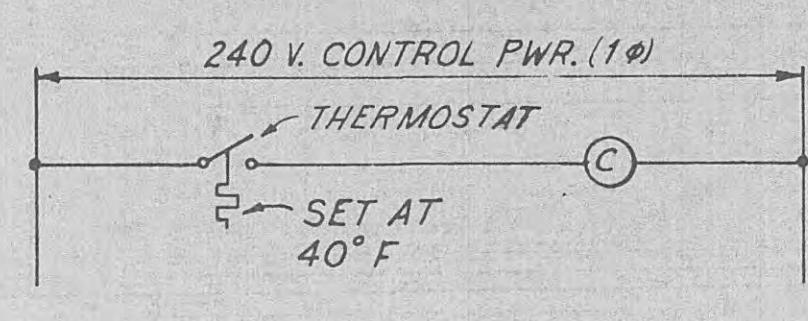
PART PLAN



SWITCH CONTROL SCHEME

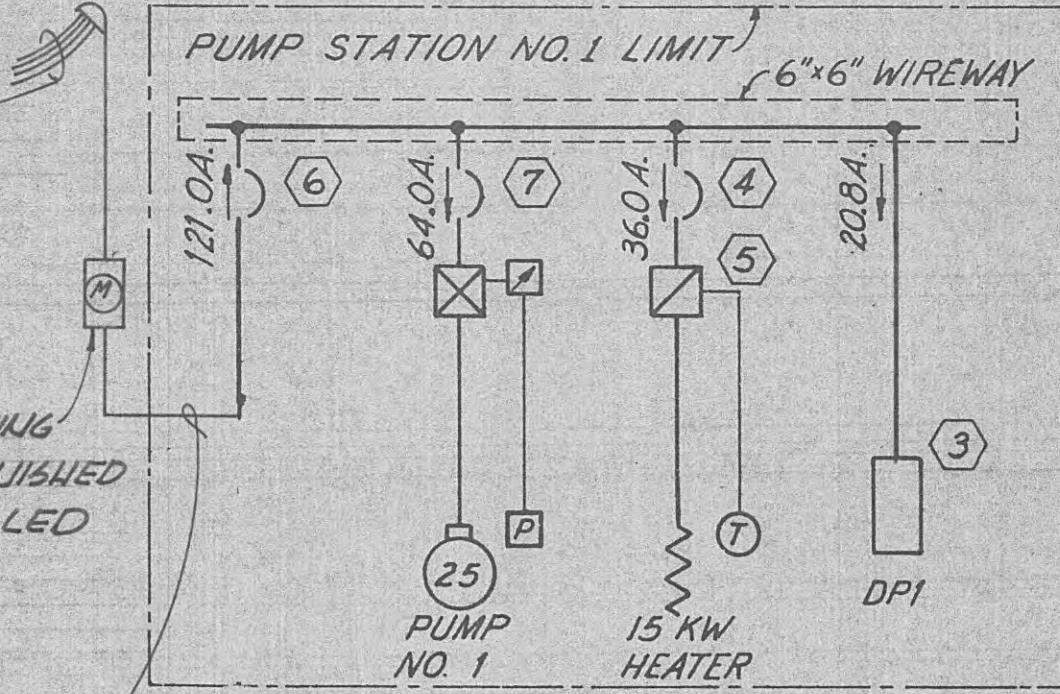


CONTROL SCHEME



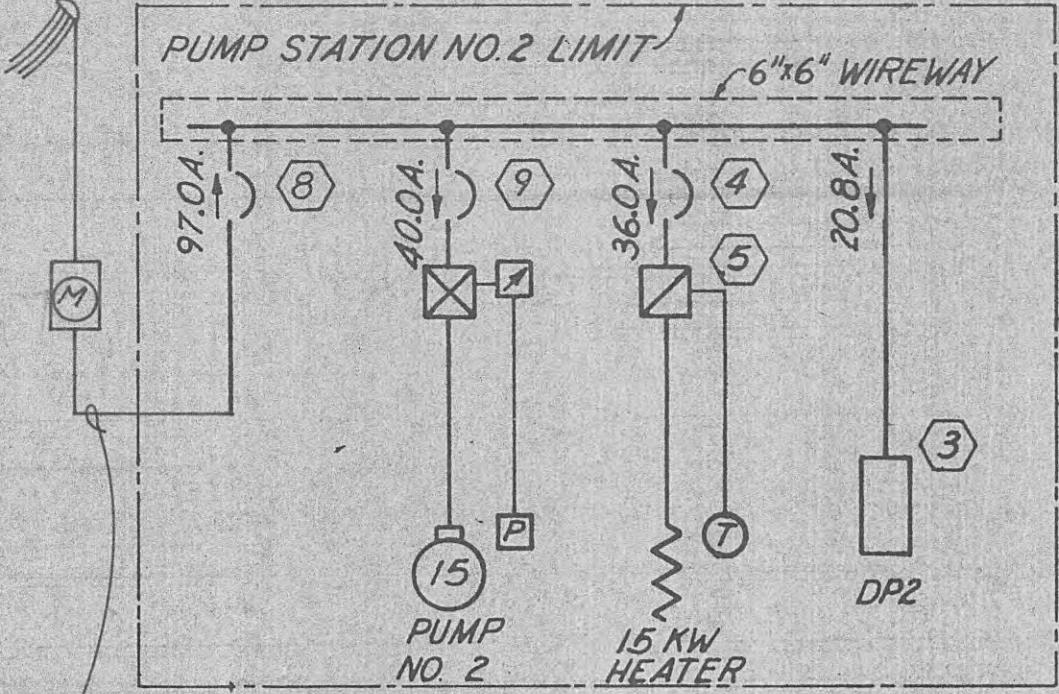
CONTROL SCHEME

ALLOW 5'-0" TAILS ON
SERVICE CABLE FOR
TERMINATION BY ELECTRICAL
UTILITY CO.



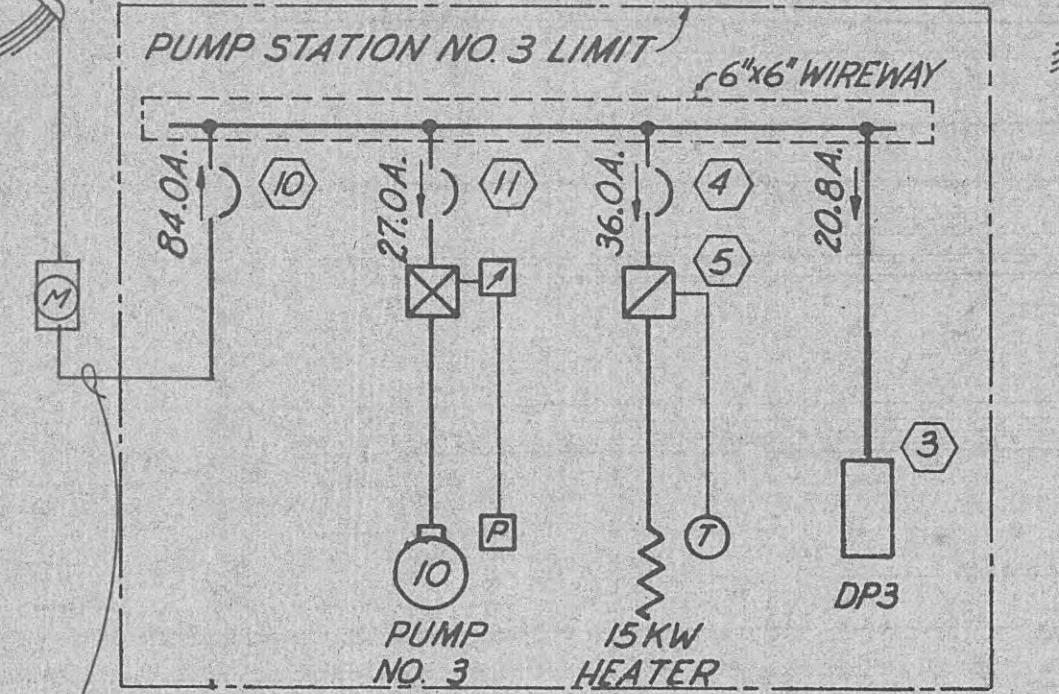
120/240 VOLT 3 PHASE,
1150 RPM 1 HP

SINGLE LINE DIAGRAM
PUMP STATION NO. 1



120/240 VOLT, 3 PHASE

SINGLE LINE DIAGRAM
PUMP STATION NO. 2



120/240 VOLT 3 PHASE

SINGLE LINE DIAGRAM
PUMP STATION NO. 4

CONDUIT AND WIRING SCHEDULE								
COND NO.	F R O M	T O	VOLTAGE PHASE	AMPS	HP	CABLE DATA	CONDUIT SIZE	REMARKS
1	WEATHERHEAD	MARK NO. ⑥	240/3	121.0		4-1/C #1/0	2"	POWER; PUMP STA. NO. 1
2	MARK NO. ⑦	PUMP NO. 1	240/3	64.0	25	3-1/C #2	1 1/4"	POWER.
3	WEATHERHEAD	MARK NO. ⑧	240/3	97.0		4-1/C #1/0	2"	POWER; PUMP STA. NO. 2
4	MARK NO. ⑨	PUMP NO. 2	240/3	40.0	15	3-1/C #4	1 1/4"	POWER.
5	WEATHERHEAD	MARK NO. ⑩	240/3	84.0		4-1/C #1	2"	POWER; PUMP STA. NO. 3
6	MARK NO. ⑪	PUMP NO. 3	240/3	27.0	10	3-1/C #3	3/4"	POWER.
7	WEATHERHEAD	MARK NO. ⑫	240/3	135.0		4-1/C #4/0	3"	POWER; PUMP STA. NO. 4
8	MARK NO. ⑬	PUMP NO. 4	240/3	78.0	30	3-1/C #1	1 1/4"	POWER.
9	WEATHERHEAD	MARK NO. ⑭	480/3	93.0		3-1/C 2/0	2"	POWER
10	MARK NO. ⑮	PUMP NO. 5	480/3	93.0	75	3-1/C 2/0	2"	POWER
11	MARK NO. ⑯	MARK NO. ⑤	240/3	36.0		3-1/C #8	3/4"	POWER
12	MARK NO. ⑮	UNIT HEATER	240/3	36.0	15KW	3-1/C #8	3/4"	POWER
13	MARK NO. ⑮	THERMOSTAT	240/1			2-1/C #12	1/2"	CONTROL
14	MARK NO. 5 ⑦, ⑨, ⑪, ⑬	LOW PRESS. CUT-OFF SW.	120/1			2-1/C #12	1/2"	CONTROL
15								
16	MARK NO. ②	MARK NO. ③	120/240/1	20.8		3 1/2 #1	1 1/2"	POWER
17	PRESSURE SWITCH	MARK NO. ⑭	120/1			2-1/C #12	1/2"	CONTROL, E
18								
19	X'FMR. NEUTRAL & WIREWAY	GROUND ROD				1-1/C #4 BARE	1/2"	GROUND
20	MARK NO. ⑭	EXISTING TANK TROL	120/1			2-1/C #12	1/2"	CONTROL, SEE NOTE 4
21	MARK NO. 14	TIERPM WIRE	120/1			2 1/2 #12	1 1/2"	POWER

ELECTRICAL LEDGEND

- CONDUIT RUN EXPOSED.

CONDUIT RUN CONCEALED.

MOTOR; VOLTAGE, PHASE & H.P. AS INDICATED.

COMBINATION CIRCUIT BREAKER MOTOR STARTER; SEE SCHEDULE FOR DESCRIPTION.

CIRCUIT BREAKER; SEE SCHEDULE FOR DESCRIPTION.

MAGNETIC CONTACTOR; SEE SCHEDULE FOR DESCRIPTION.

T TRANSFORMER; SEE SCHEDULE FOR DESCRIPTION.

UNIT HEATER; 240V.-3Ø-15 KVA; CHROMOLOX CAT. NO. LUH 150.

T THERMOSTAT; CHRMOLOX CAT. NO. T-473E.

J JUNCTION BOX, GALVANIZED SHEET STEEL; SIZE AS REQUIRED.

INCANDESCENT LIGHTING FIXTURE; WALL MOUNTED 6'-0" ABOVE FIN. FLOOR, PRESCOLITE CAT. NO. WB-24 WITH 1 EA. 100W. I.F. PS 21 LAMP.

INCANDESCENT LIGHTING FIXTURE; PENDANT MOUNTED 7'-0" ABOVE-FIN. FLOOR, MILLER CAT. NO. AE3013 WITH 1 EA. 500W. I.F. PS35 LAMP.

D DUPLEX RECEPTACLE; 20A., 125V., HUBBELL CAT. NO. 53CM62.

\$ SINGLE POLE TUMBLER SWITCH; "T" RATED, 20A., 125 V., HUBBELL CAT. NO. 1281-GRY.

P PRESSURE SWITCH; HEALY-RUFF ROTO-TROL TYPE 'C' WITH 110V. COILS. FOR CONTROL OF 1 EA. 240V.-3Ø MOTORS.
PRESSURE RANGE: 80 TO 225 PSI
PUMP NO. 5 1,2,4

P PRESSURE RANGE: 50 TO 150 PSI
PUMP NO. 3

SEE CONTROL SCHEME 4

P.V. PRESSURE SWITCH; SAME AS ABOVE EXCEPT IN NEMA 3R ENCLOSURE

DRIVEN GROUND ROD; COPPERWELD $\frac{3}{4}$ " x 10'-0".

LP LOW PRESSURE CUT-OFF SWITCH; HEALEY-RUFF PRIME-TROL WITH 110V. COILS FOR CUT OFF AT 20 PSI.

E Q U I P M E N T S C H E D U L E													
R K O.	DESCRIPTION	VOLTAGE PHASE	H.P.	AMP LOAD	C I R C U I T B R E A K E R					NEMA SIZE	CONTROL SCHEME	S E R V E S	R E M A R K S
					TYPE	FRAME SIZE	FRAME AMPS	CONT. AMPS	INST. TRIP AMPS				
1													
2													
3	DIST. PANEL; 6-1P-20A. BKRS.	120/240/1	—	—	—	—	—	—	—			PUMP STATION MISC. POWER	ITE CAT. NO. EQ12MB
4	CIRCUIT BREAKER	240/3	15KW	36.0	ET	EF	100	—	—			MARK NO. (5)	ITE CAT. NO. EF3B040-EE1
5	MAGNETIC CONTACTOR	240/3	15KW	36.0	—	—	—	—	—	3		UNIT HEATER	CHRMOLY CAT. NO. CR-350
6	CIRCUIT BREAKER	240/3	—	121.0	ET	JL	400	225	—			PUMP STATION NO. 1	ITE CAT. NO. JL3-B225-JL1
7	FVNR GIB COMB. MOTOR START.	240/3	25	64.0	ETI	EF	100	100	750	3	1	PUMP NO. 1	ITE CAT. NO. A3IE241G
8	CIRCUIT BREAKER	240/3	—	97.0	ET	JL	400	150	—			PUMP STATION NO. 2	ITE CAT. NO. JL3-B150-JL1
9	FVNR COMB. MOTOR STARTER	240/3	15	40.0	ETI	EF	100	50	475	2	1	PUMP NO. 2	ITE CAT. NO. A3ID241F
10	CIRCUIT BREAKER	240/3	—	84.0	ET	JL	400	125	—			PUMP STATION NO. 3	ITE CAT. NO. JL3B125-JL1
11	FVNR COMB. MOTOR STARTER	240/3	10	27.0	ETI	EF	100	50	330	2	1	PUMP NO. 3	ITE CAT. NO. A3ID241E
12	CIRCUIT BREAKER	240/3	—	135.0	ET	JL	400	250	—			PUMP STATION NO. 4	ITE CAT. NO. JL3B250-JL1
13	FVNR COMB. MOTOR STARTER	240/3	30	78.0	ETI	EF	100	100	930	3	1	PUMP NO. 4	ITE CAT. NO. A3IE241G
14	FVNR COMB. MOTOR STARTER	480/3	75	93.0	ETI	FJ3- A225	225	225	1200	4	2	PUMP NO. 5	ITE CAT. NO. A50FAB2ACT3LX3Y

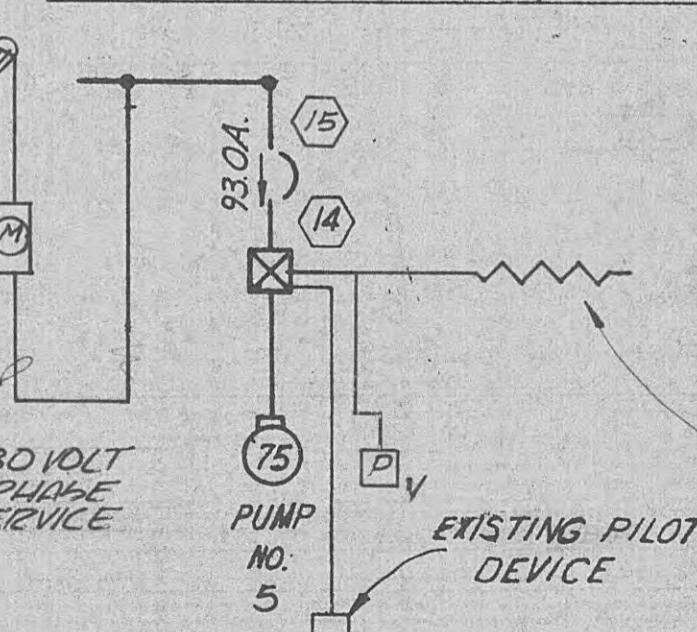
DPI DP2 DP3 & DP4 PANEL SCHEDULES

CIR. NO.	PHASE A	PHASE B	CIRCUIT BREAKER		WIRE SIZE	CONDUIT SIZE	S E R V E S
			POLES	AMPS			
1	600		1	20	2-1/1C#12	1/2"	LIGHTING
2		1200	1	20	2-1/1C#12	1/2"	RECEPTACLE
3	1200		1	20	2-1/1C#12	1/2"	RECEPTACLE
4		100	1	20	2-1/1C#12	1/2"	PRESS. SWITCHES
5	SPARE		1	20			
6		SPARE	1	20			
TOTAL	1800	1300	3.2 KW				
BUS	100 AMP						

NOTES:

- NOTE:

 1. UP TO WEATHERHEAD INSTALLED
2'-6" MIN. ABOVE ROOF.
 2. FOR LOCATION OF PUMP STATIONS
REFER TO SHEET NO. 1.
 3. ~~ALL WEATHERHEADS INSTALLED~~
12'-0" MIN. ABOVE GRADE LEVEL.
 4. INSTALL CONTROL RELAY IN
CONTROL CIRCUIT OF EXISTING TANK
TROL, TYPE E DR. NEW CONTROL
RELAY SHALL HAVE 1-NC CONTACT.
VOLTAGE SHALL BE DETERMINED
IN THE FIELD.



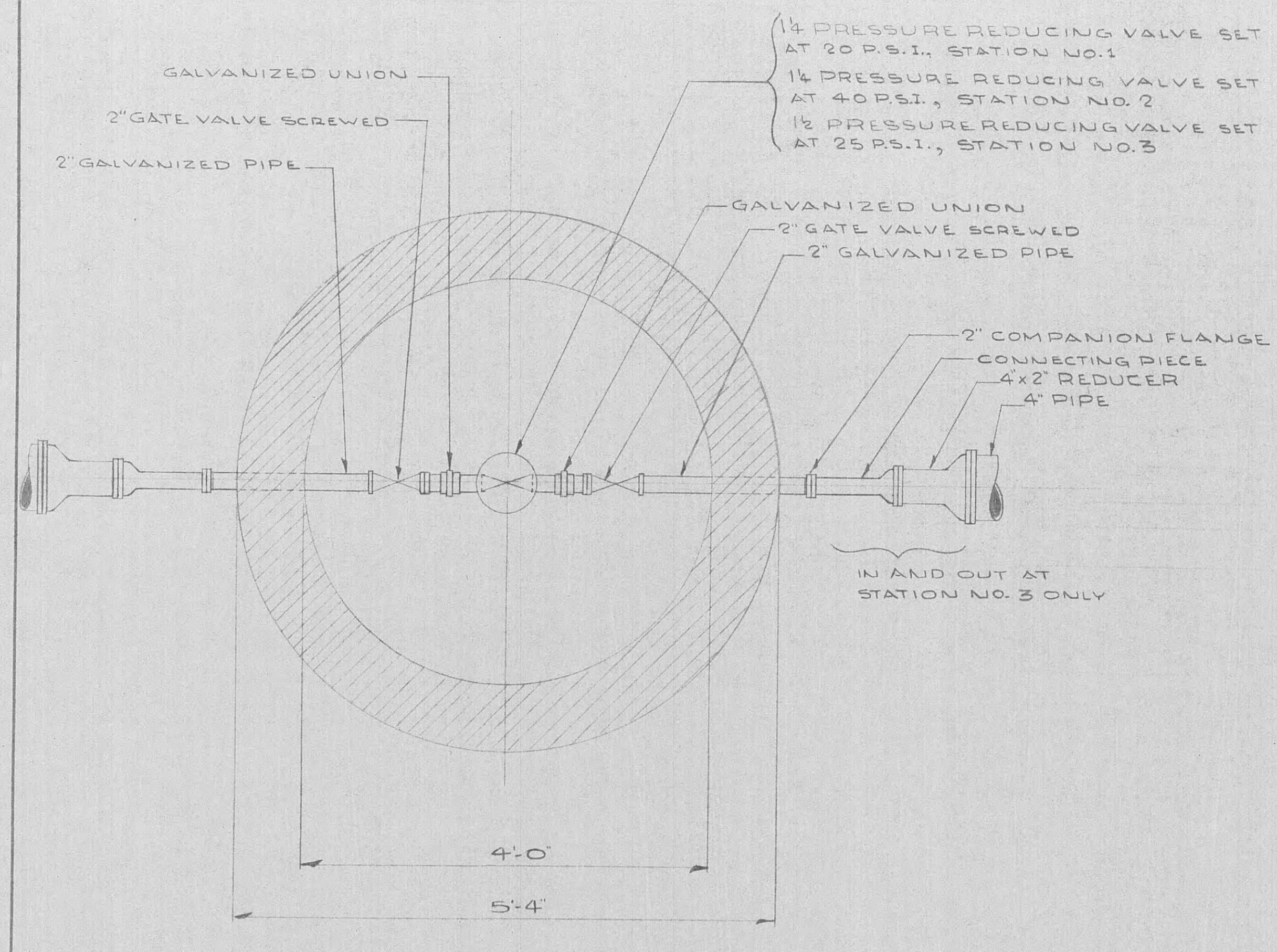
SINGLE LINE DIAGRAM

NOTE: THE CONTROL POWER TRANSFORMER
IN THE MOTOR STARTER FOR PUMP NO. 5
SHALL HAVE AN ADDITIONAL CAPACITY
OF 300 VA FOR POWER TO THE HEALY-
RUFF, ROTO-TROL, TYPE C' PRESSURE
CONTROL DEVICE. (APPROXIMATELY 10 VA)
A STR. 10 WIRE HEATER FURNISHED AND INSTALLED
INSIDE THE MOTOR STARTER; AND THE
100 VA THERM WIRE BAND ON THE SENSING
PIPE OF THE PRESSURE CONTROL DEVICE.

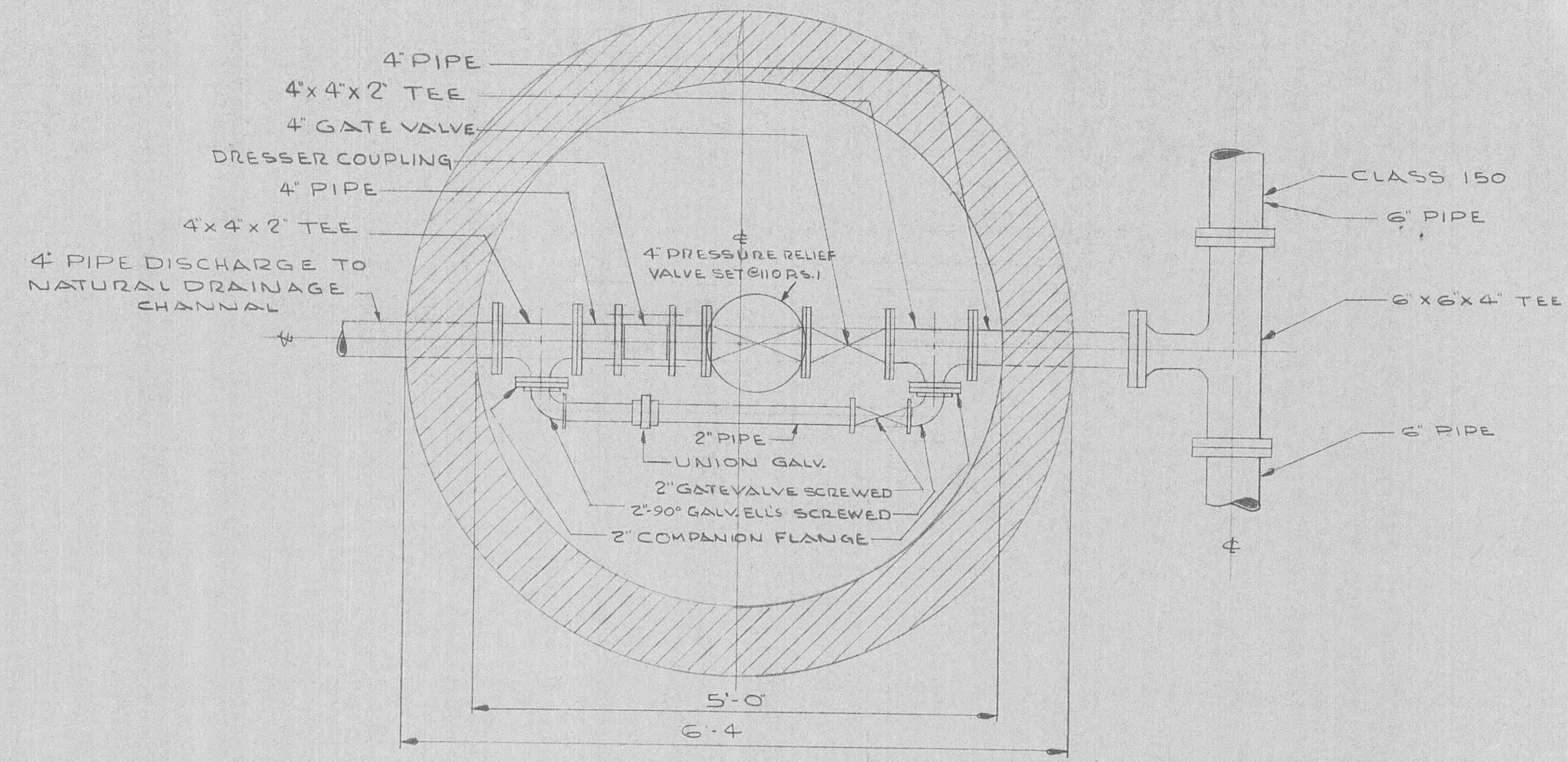
CHROMALOX THERM WIRE BAND TYPE
TAB-12 FOR HEATING, PRESSURE
SENSING PIPE TO ROTO TROL CONTROL
PANEL

ANSWER

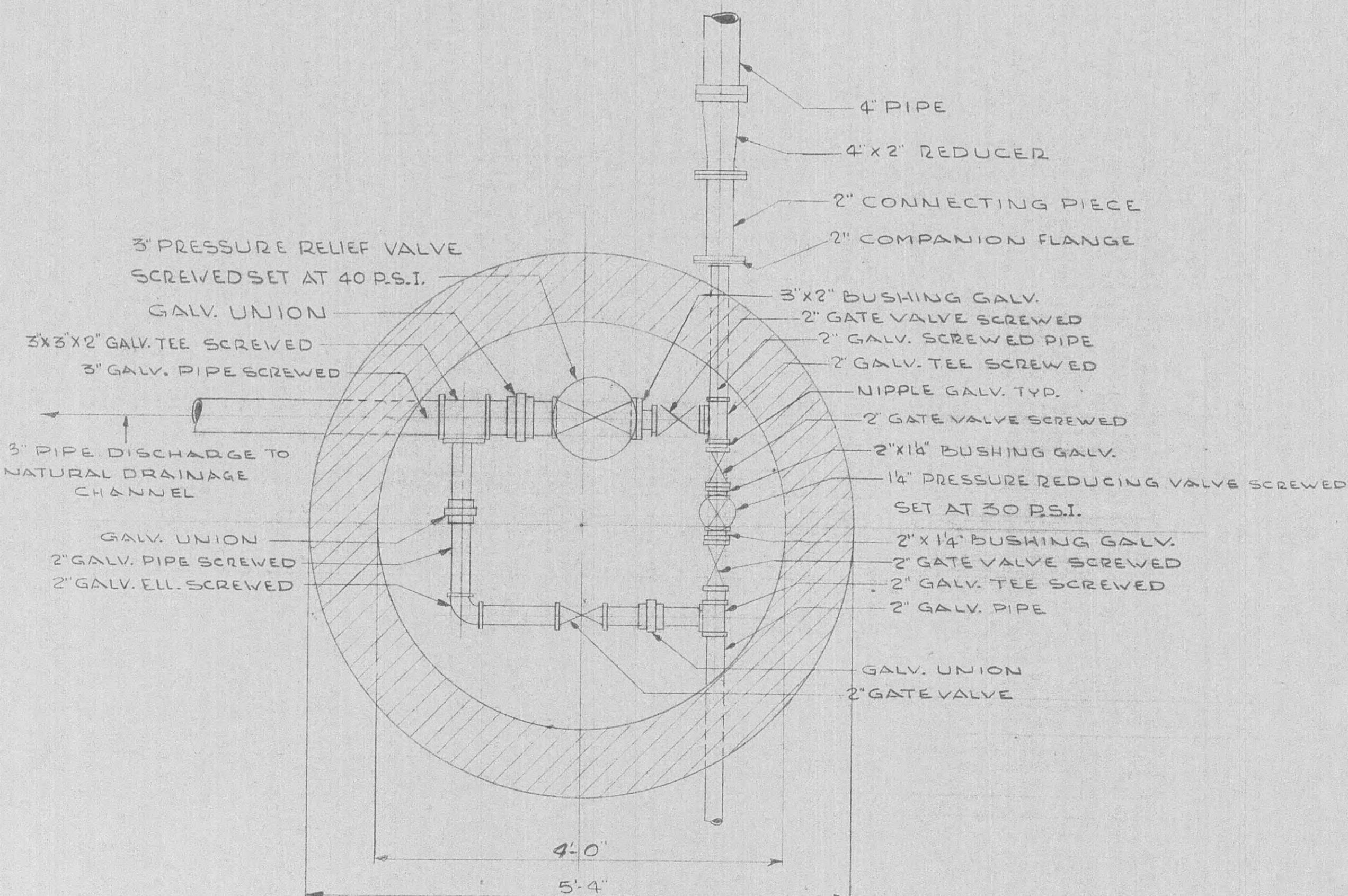
WATER SYSTEM IMPROVEMENTS
For WOLFE BRANCH UTILITY DISTRICT
 MORGAN & ROANE CO., TENNESSEE
BLACK, CROW AND EIDSNESS, INC.
 ENGINEERS
 GAINESVILLE FLORIDA
 DRAWN BY: H.S.R. DATE: OCT. 1968
 CHECKED BY: S.N.B. FILE NO.: 468-68-1
 SCALE: AS SHOWN
 ELECTRICAL PLANS SHEET NO. 22



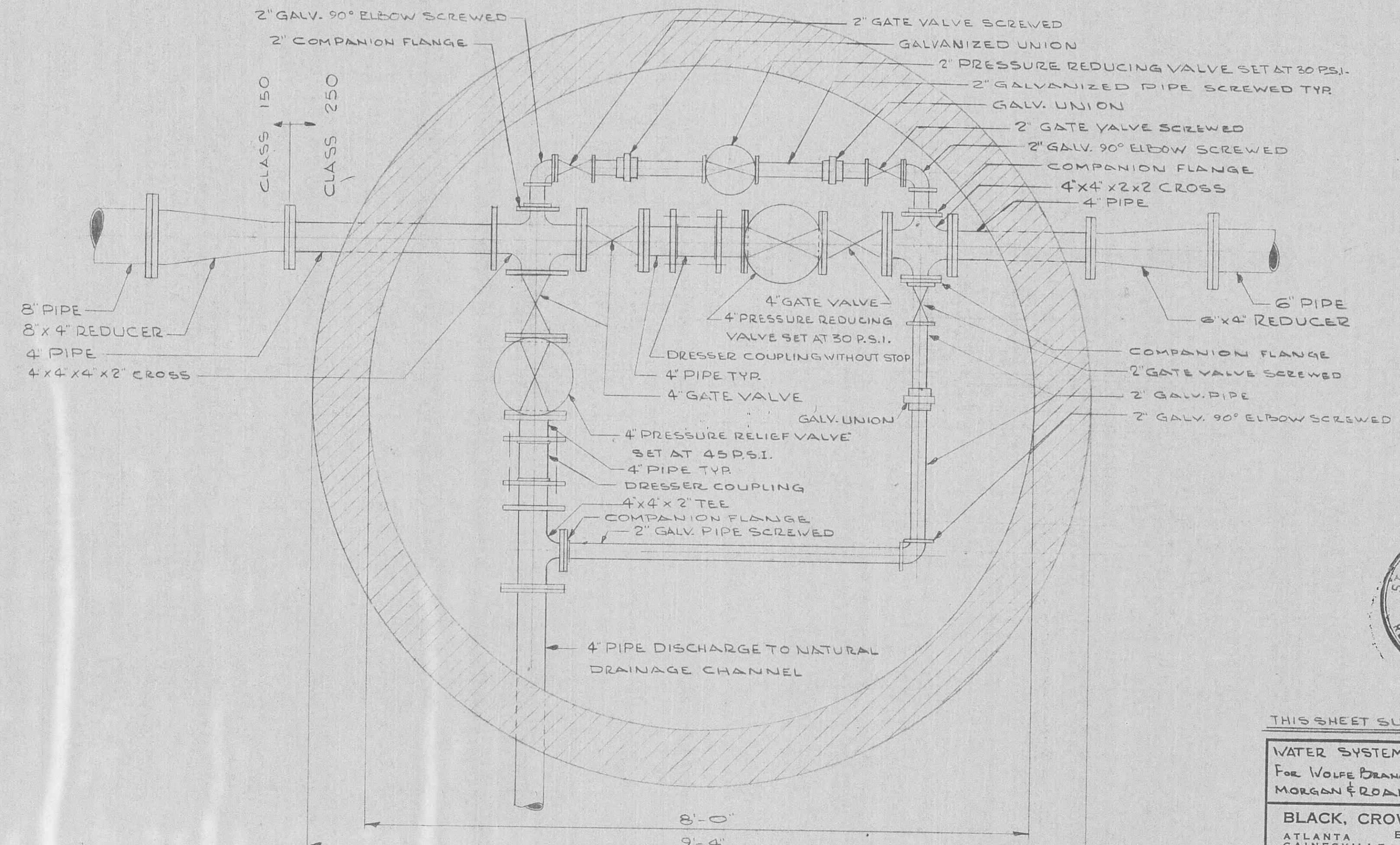
PRESSURE REDUCING STATION No. 1, 2, & 3



PRESSURE RELIEF STATION No. 1



PRESSURE REDUCING & RELIEF STATION No. 1



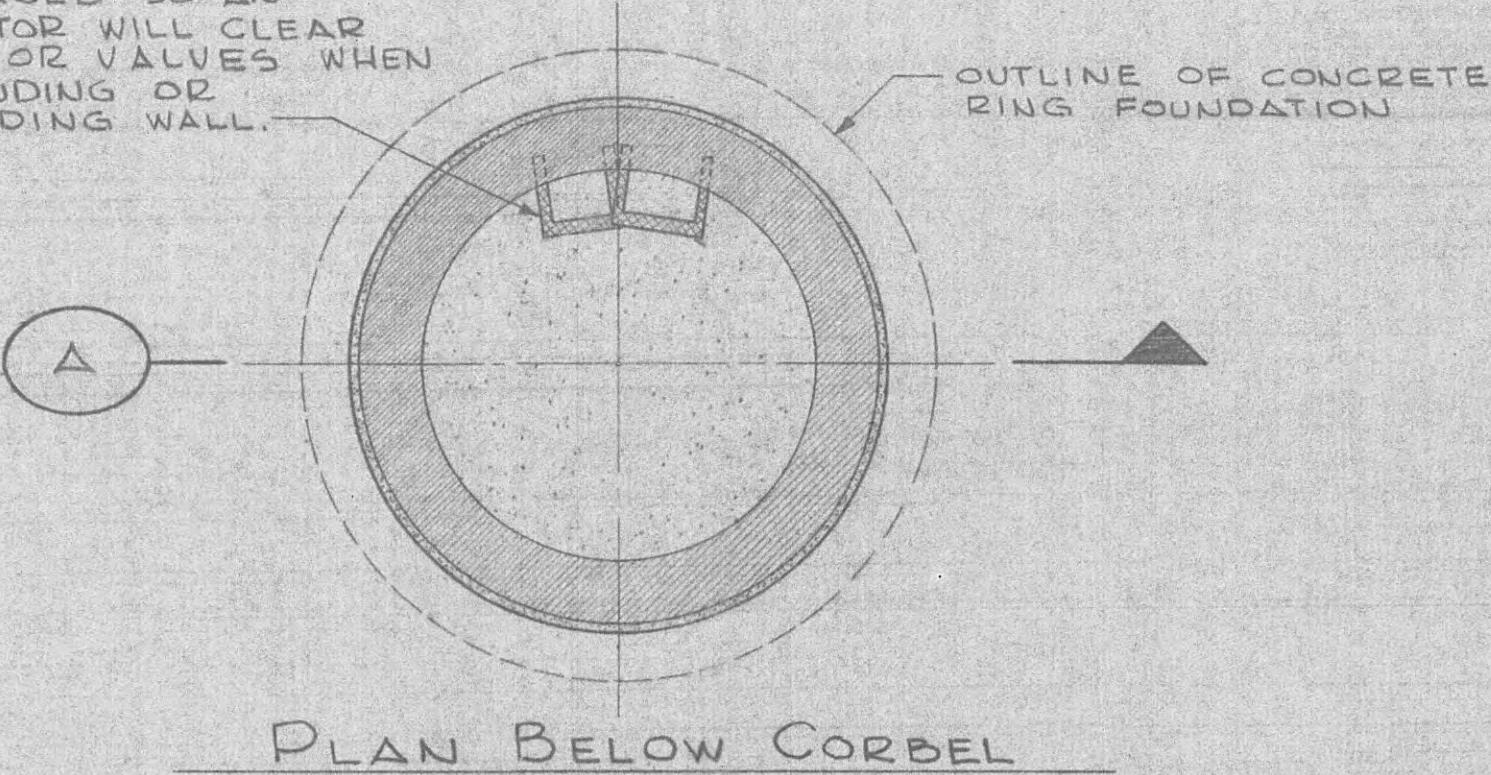
PRESSURE REDUCING & RELIEF STATION No. 2



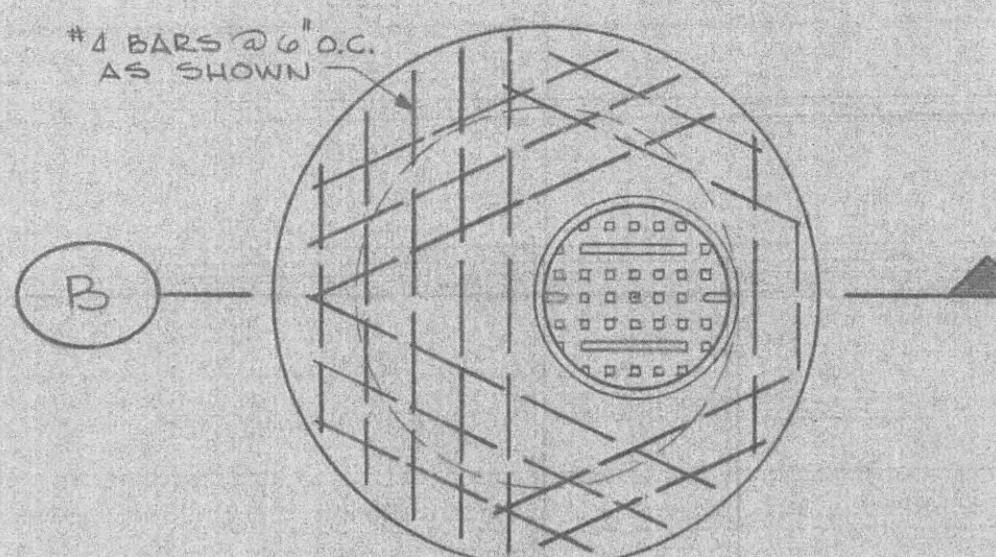
THIS SHEET SUPERSIDES SHEET 19

WATER SYSTEM IMPROVEMENTS For Wolfe Branch Utility District Morgan & Roane County, Tennessee	BLACK, CROW AND EIDSNESS, INC. ATLANTA ENGINEERS GAINESVILLE, GEORGIA	DATE: MAY, 1969 DRAWN BY: ETHERDINE CHECKED BY: RDW FILE NO.: 462-68-1
SCALE: PRESSURE RELIEF AND PRESSURE REDUCING STATION PLANS		

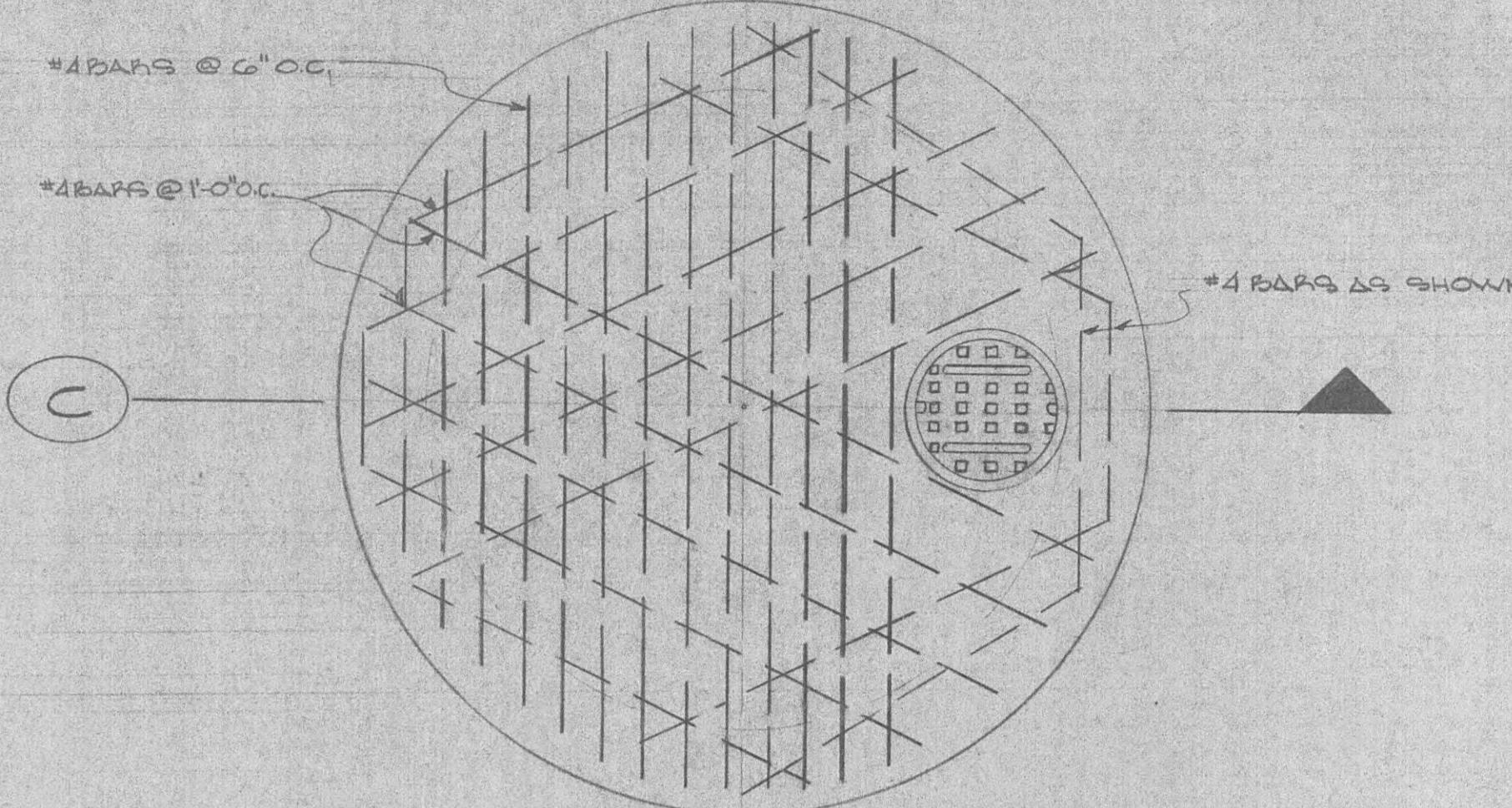
NOTE:
MANHOLE STEPS ARE TO
BE PLACED SO AN
OPERATOR WILL CLEAR
PIPS OR VALVES WHEN
DESCENDING OR
ASCENDING WALL.



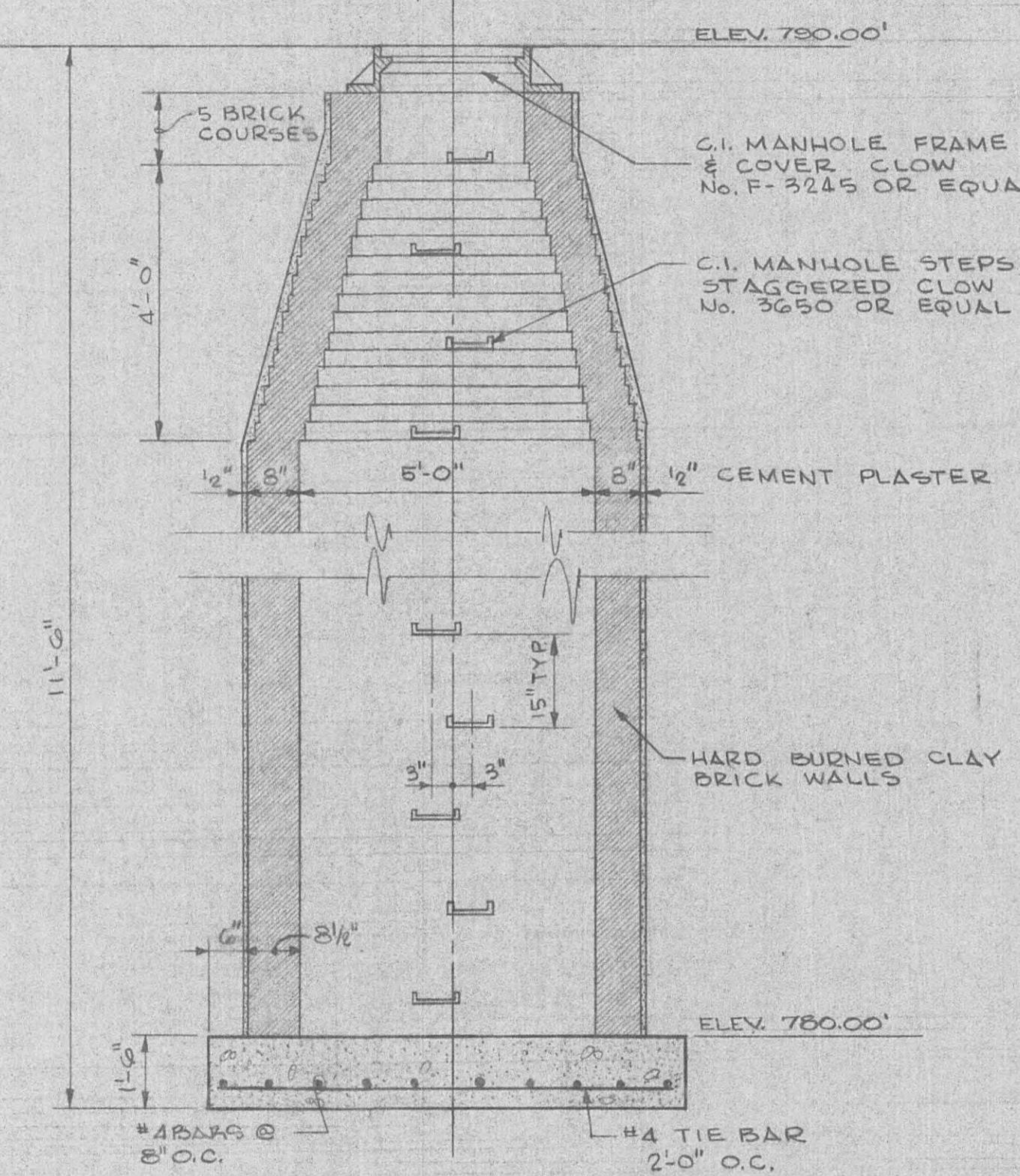
PLAN BELOW CORBEL



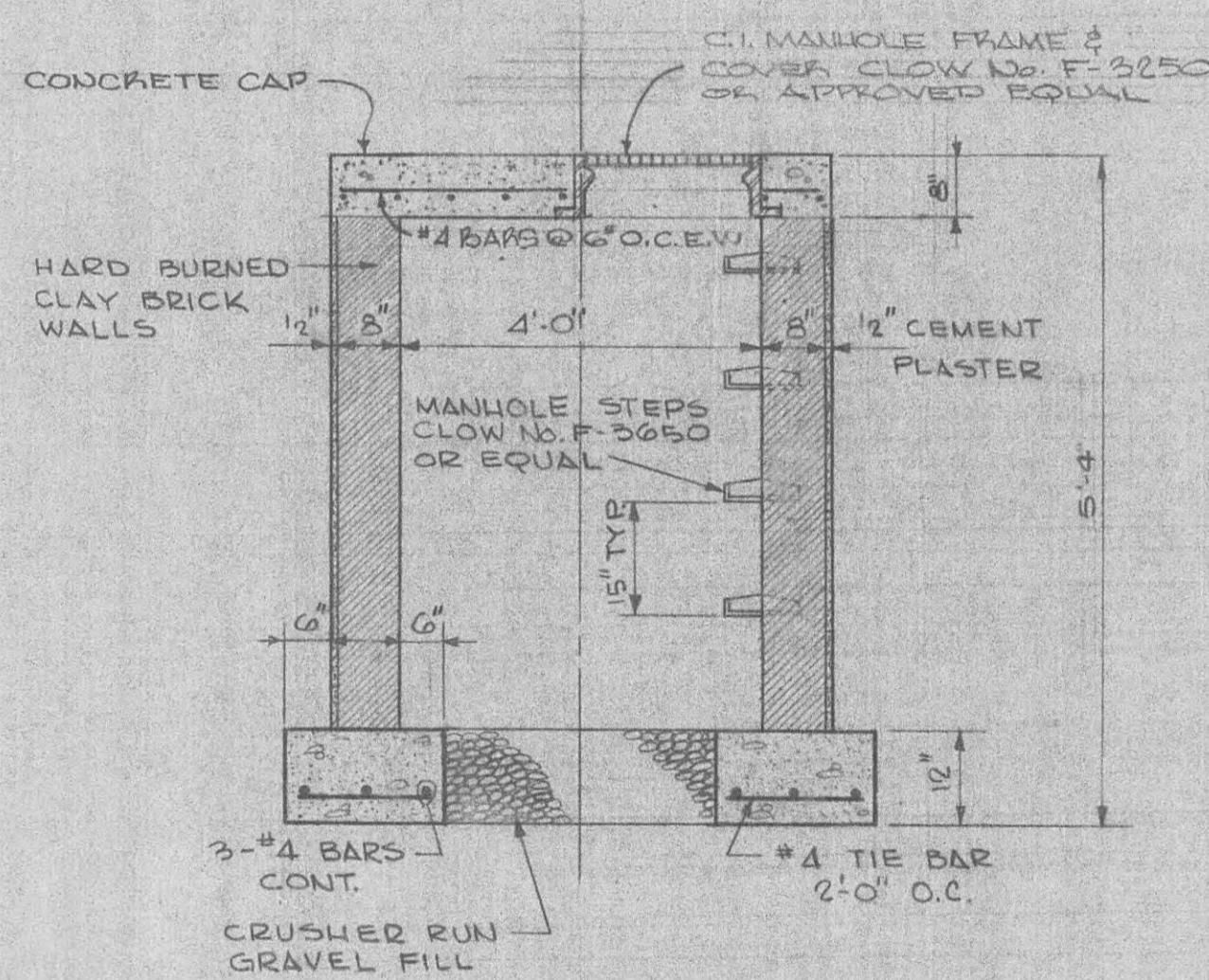
PLAN



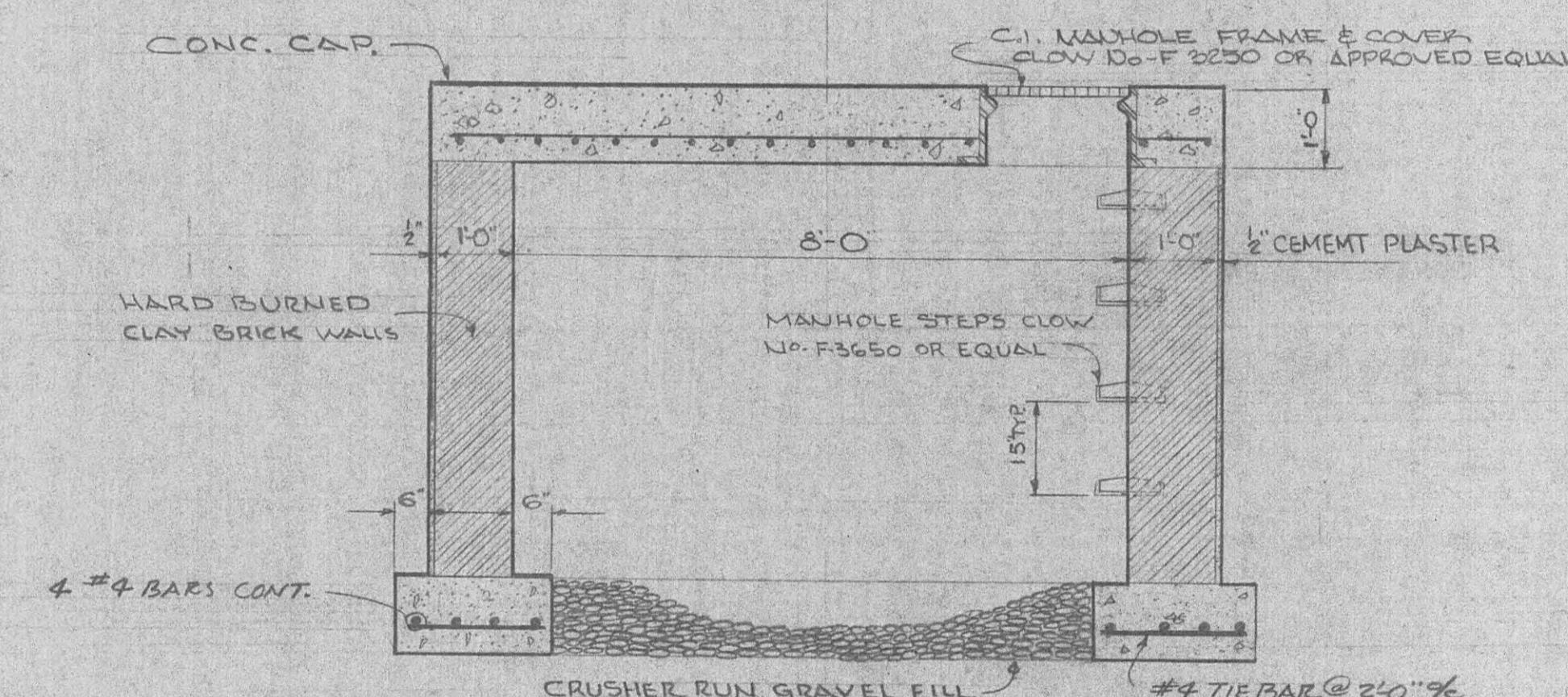
PLAN



SECTION — A



SECTION — B



SECTION — C

DETAILS PRESSURE RELIEF STATION No.1

SCALE 1/2" = 1'-0"

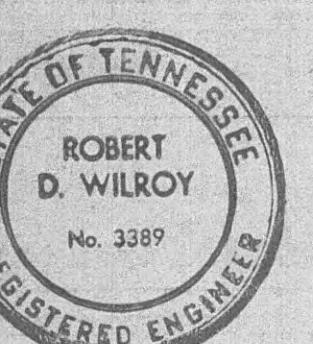
PRESSURE REDUCING STATION No. 1, 2, & 3

PRESSURE REDUCING & RELIEF STATION No. 1

SCALE 1/2" = 1'-0"

PRESSURE REDUCING & RELIEF STATION No. 2

SCALE 1/2" = 1'-0"



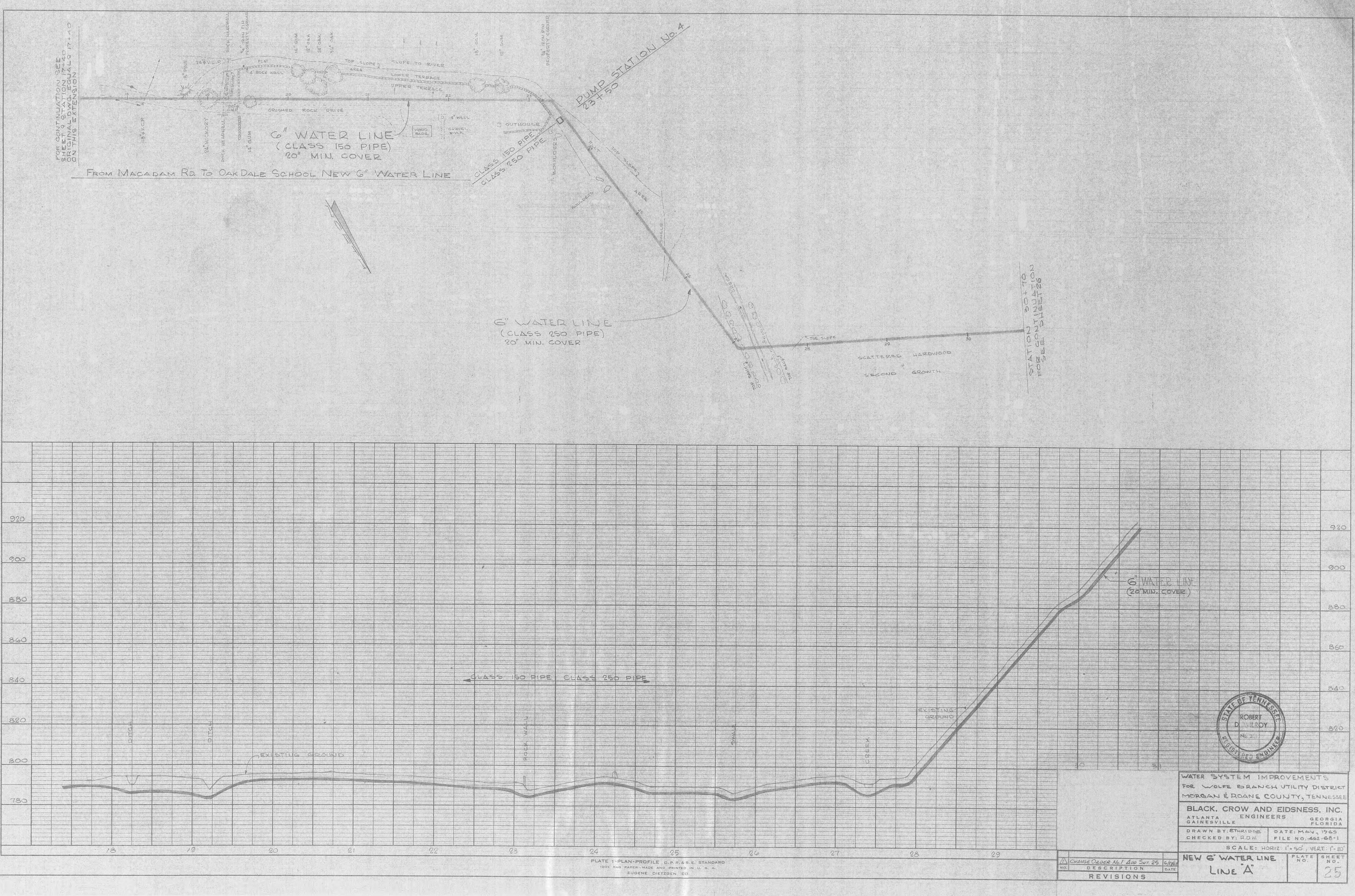
WATER SYSTEM IMPROVEMENTS	
FOR WOLFE BRANCH UTILITY DISTRICT	
MORGAN & ROANE COUNTY, TENNESSEE	
BLACK, CROW AND EIDSNESS, INC.	
ATLANTA GAINESVILLE GEORGIA FLORIDA	
DRAWN BY: CRIGGIE	DATE: MAY 1969
CHECKED BY: KDW	FILE NO. 462-6B-1
SCALE: 1/2" = 1'-0"	
CHARGE ORDER NO. DATE	
DESCRIPTION	
REVISIONS	

PRESSURE REDUCING &
RELIEF STATION
SECTIONS & DETAILS

PLATE NO. SHEET NO. 24

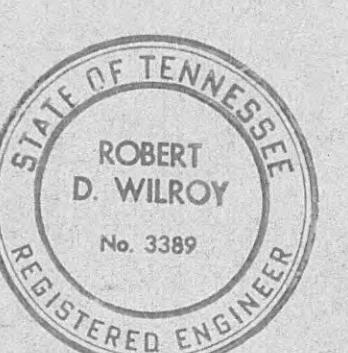
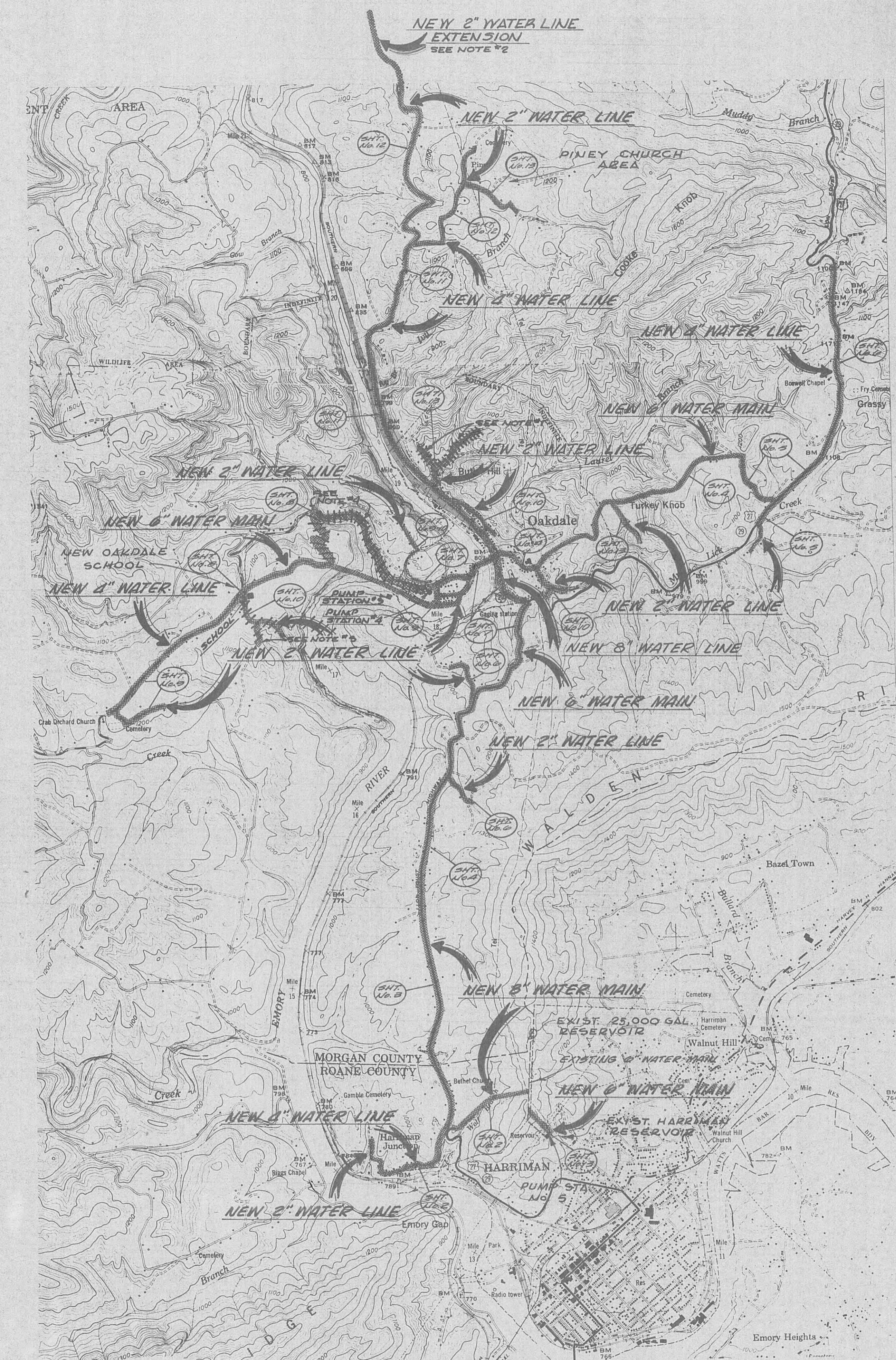
FOR CONTINUATION SEE
STATION 20+70
ORIGINAL SURVEY LINE
ON THIS EXTENSION

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED	RECHECKED	AT DUEWAY CHECKED



NOTES:

- #1 REMOVE 2" WATER LINE TO HOLE IN WALL, NO CUSTOMERS TO BE SERVED.
- #2 EXTEND 2" WATER LINE 10' OUT MACADAM ROAD ADD 4 CUSTOMERS IN APPROX. 1700.
- #3 REMOVE 2" WATER LINE, NO CUSTOMERS TO BE SERVED
- #4 RELOCATE 6" WATER LINE BECAUSE OF ROAD CONSTRUCTION, NO CHANGE OF CUSTOMERS

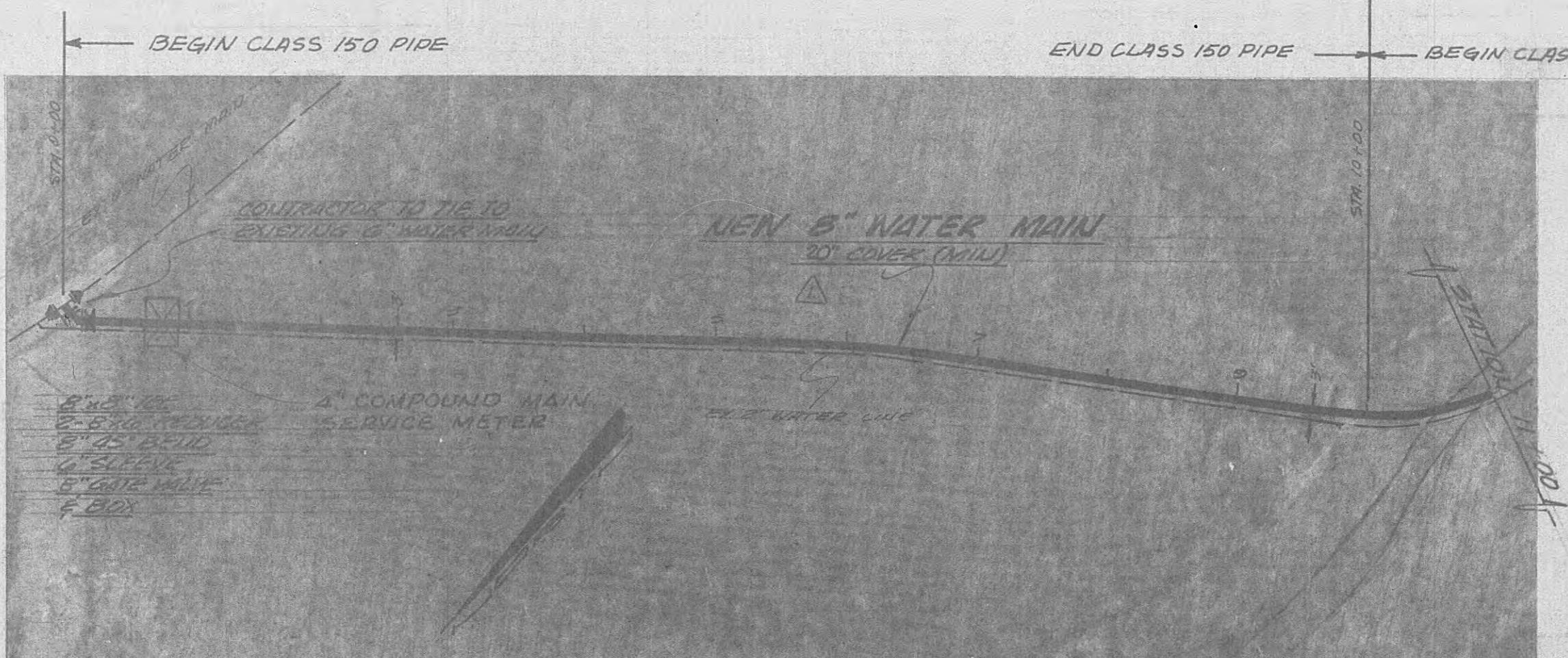


WATER SYSTEM IMPROVEMENTS
For WOLFE BRANCH UTILITY DISTRICT
MORGAN & ROANE COUNTY'S TENNESSEE
BLACK, CROW AND EIDSNESS, INC.
ENGINEERS
GAINESVILLE FLORIDA
DRAWN BY: M. SHAW DATE: OCT. 1966
CHECKED BY: C. G. JONES FILE NO.: 148-26-1
SCALE: APPROX. 1" = 2000'

CHANGE ORDER #1	REVISIONS
NO. DESCRIPTION DATE	1/25/67

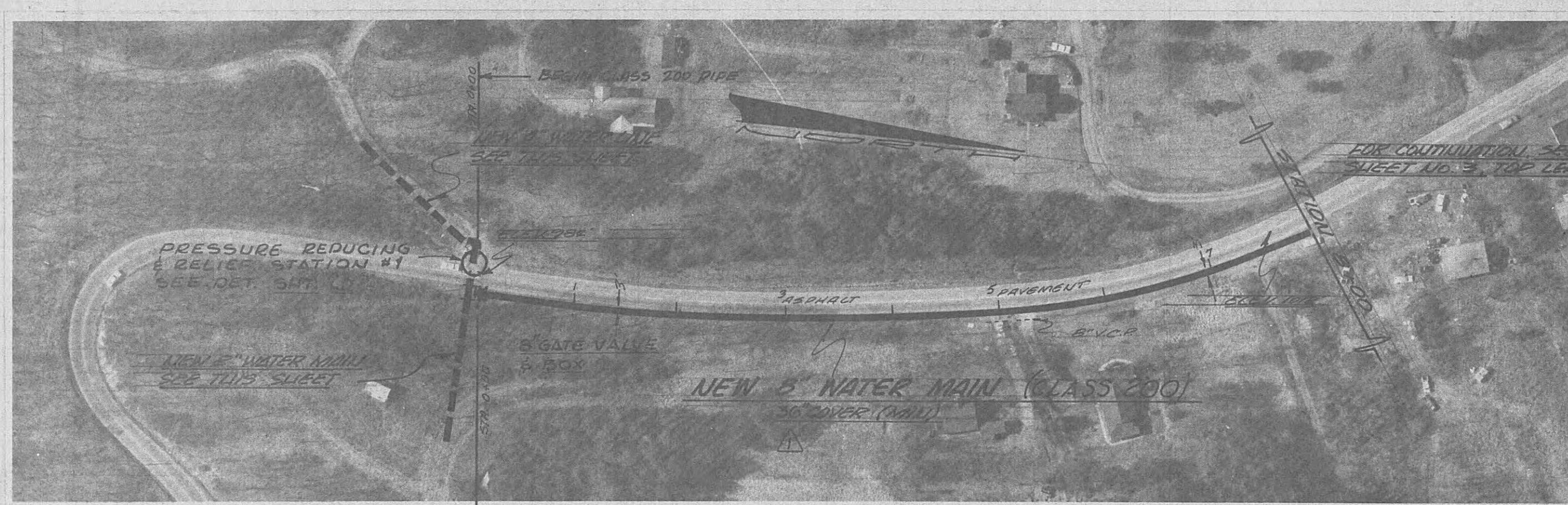
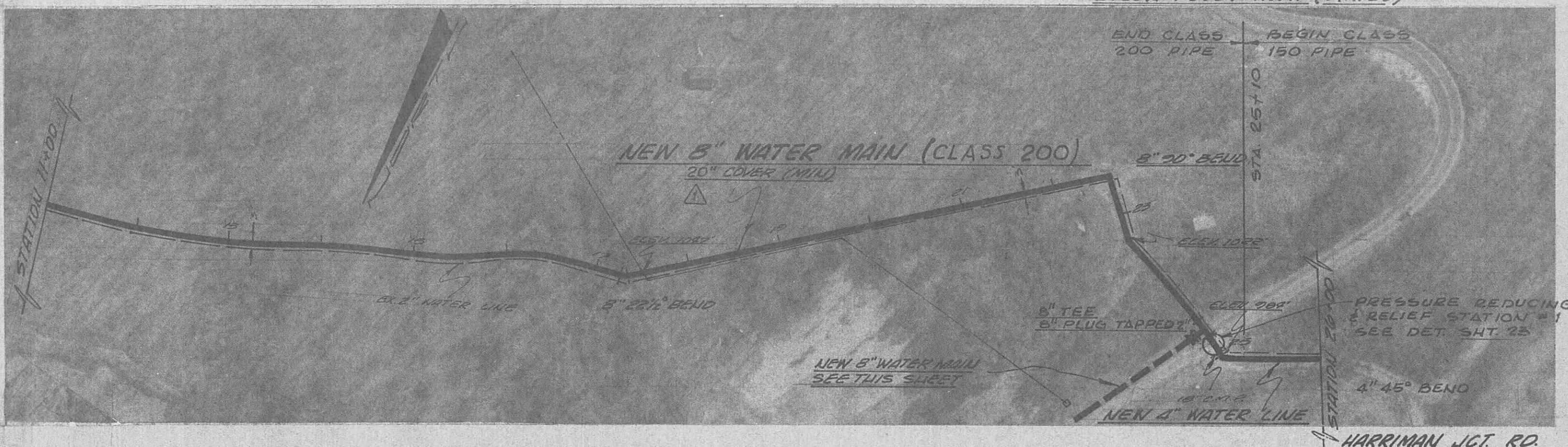
LOCATION MAP

SHEET NO.

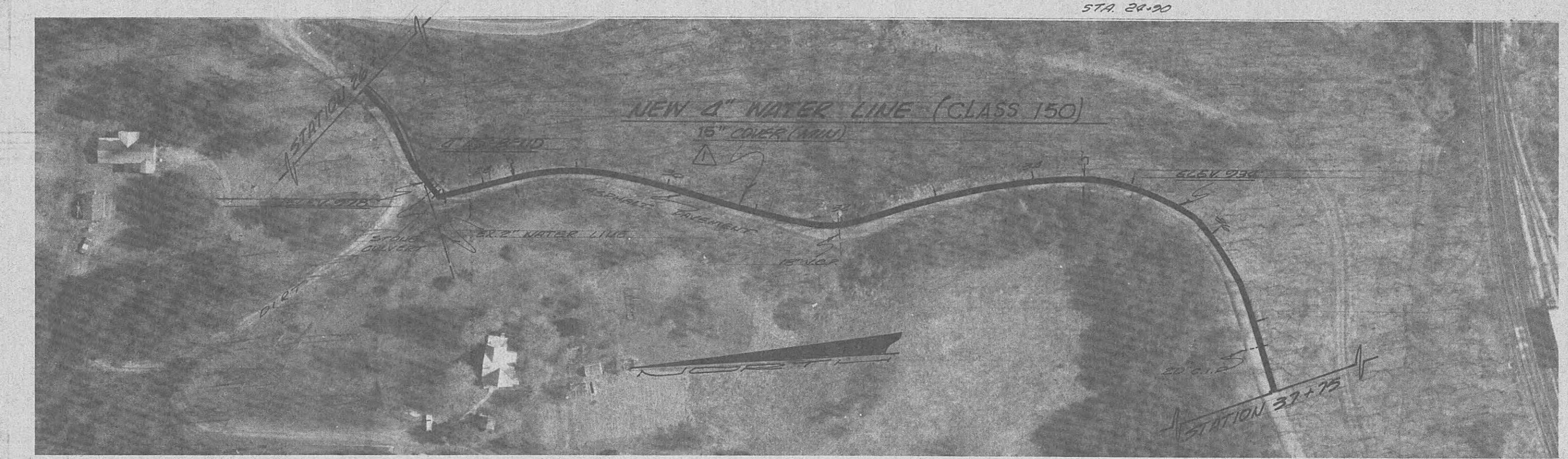


NOTE: CONTRACTOR TO FURNISH & INSTALL $\frac{5}{8}$ " CHECK
VALVE IN THE EXISTING SERVICE LINE OF
LEONARD E. LADD.

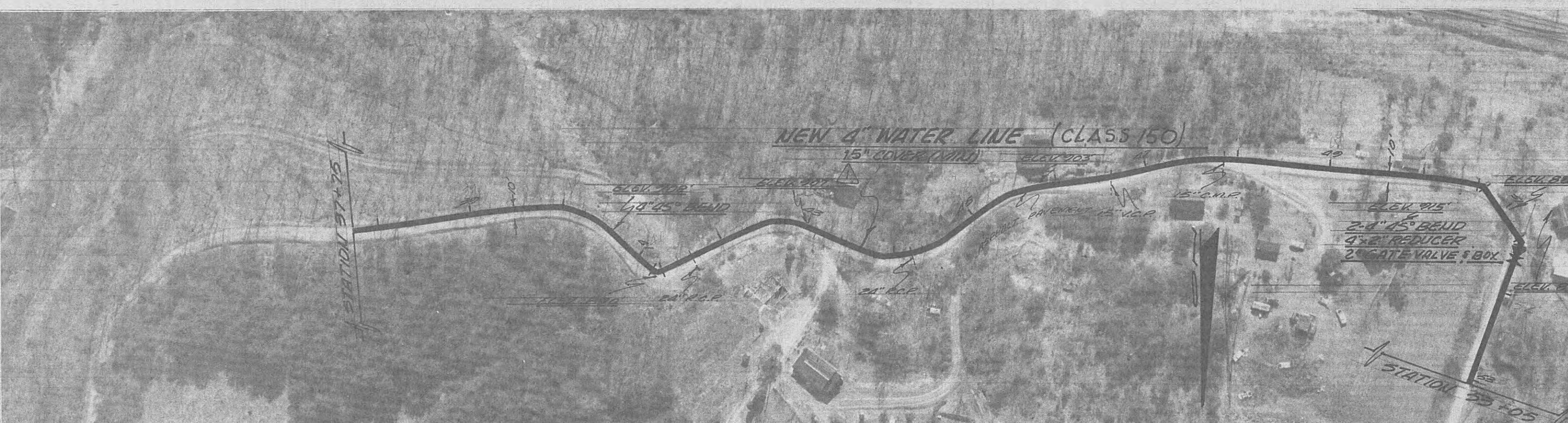
CONNECTION FROM WALDEN RIDGE
(TO J. LON FOUST HWY (STATE ROAD 29)



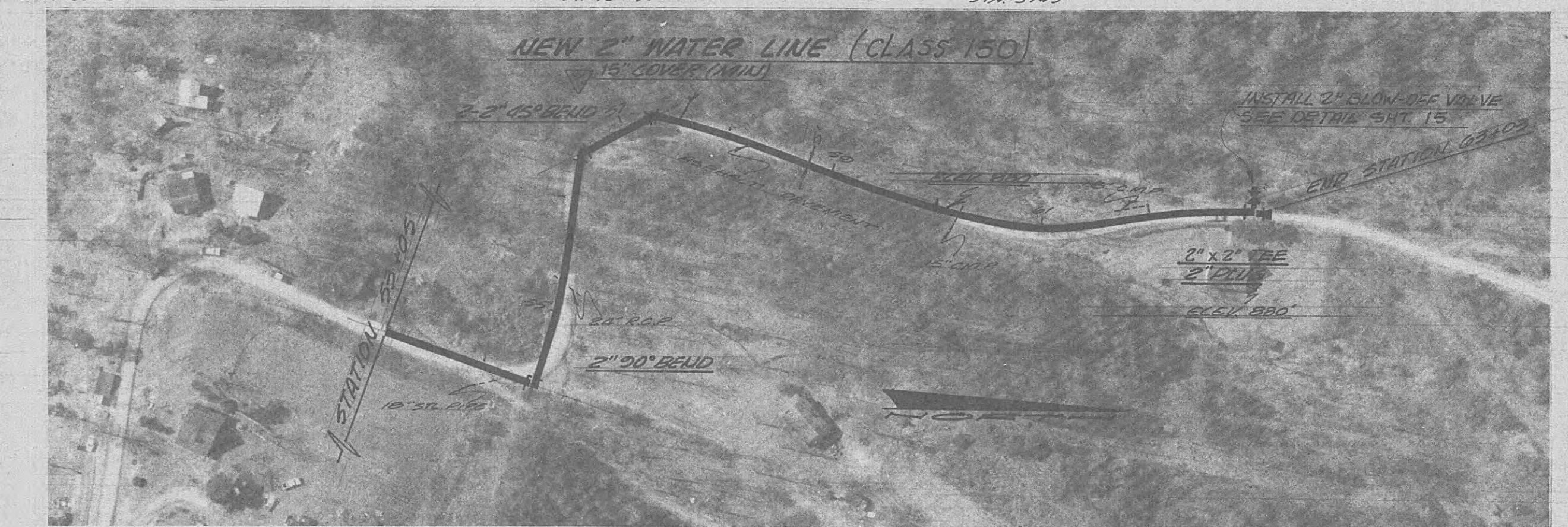
J. LON FOUST HWY. (STATE ROAD 29)



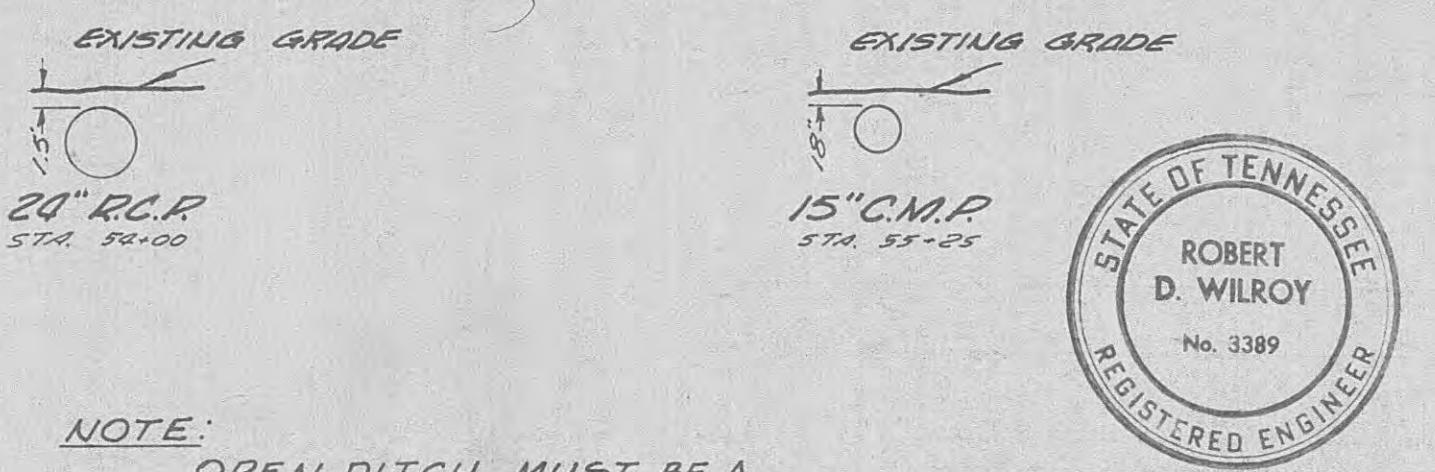
HARRIMAN JUNCTION ROAD



H A R R I M A N



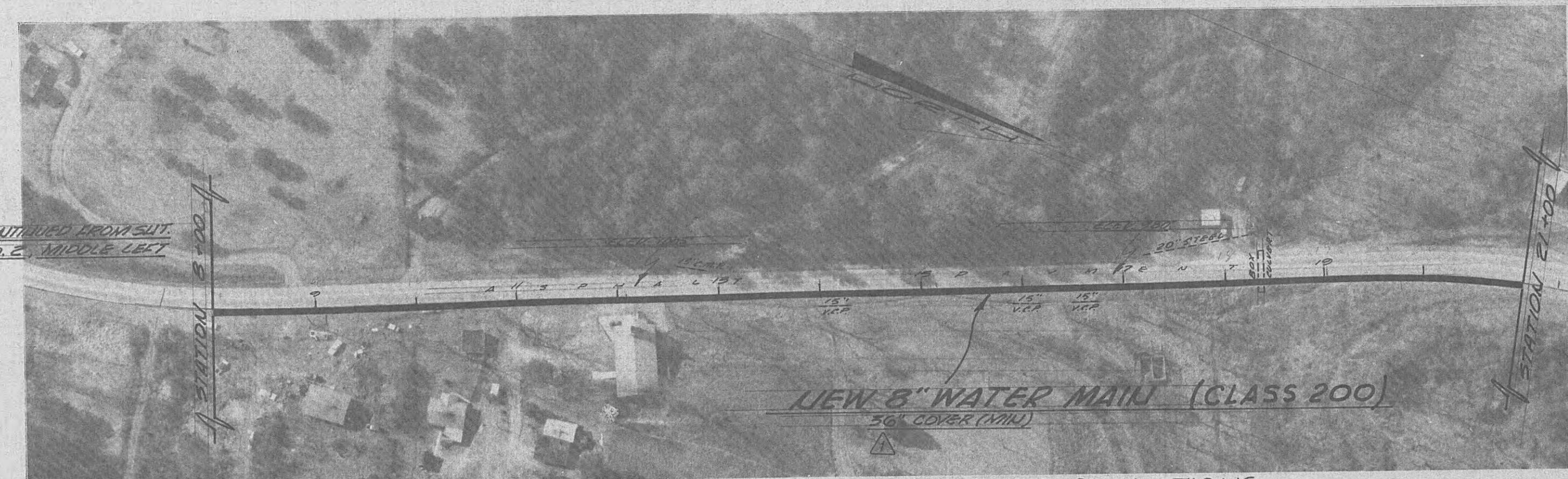
J U N C T I O N R O A D



NOTE: OPEN DITCH MUST BE A
MINIMUM OF 3 FEET
FROM EDGE OF PAVEMENT.

SCALE: 1:100		
REVISED MIN. COVER NO.	DESCRIPTION DATE	SHEET NO. 2
	<u>NEW 8" WATER MAIN ALONG J.LON COUST LWY. & NEW 4" & 2" WATER LINES ALONG HARRIMAN JUNCTION ROAD</u>	

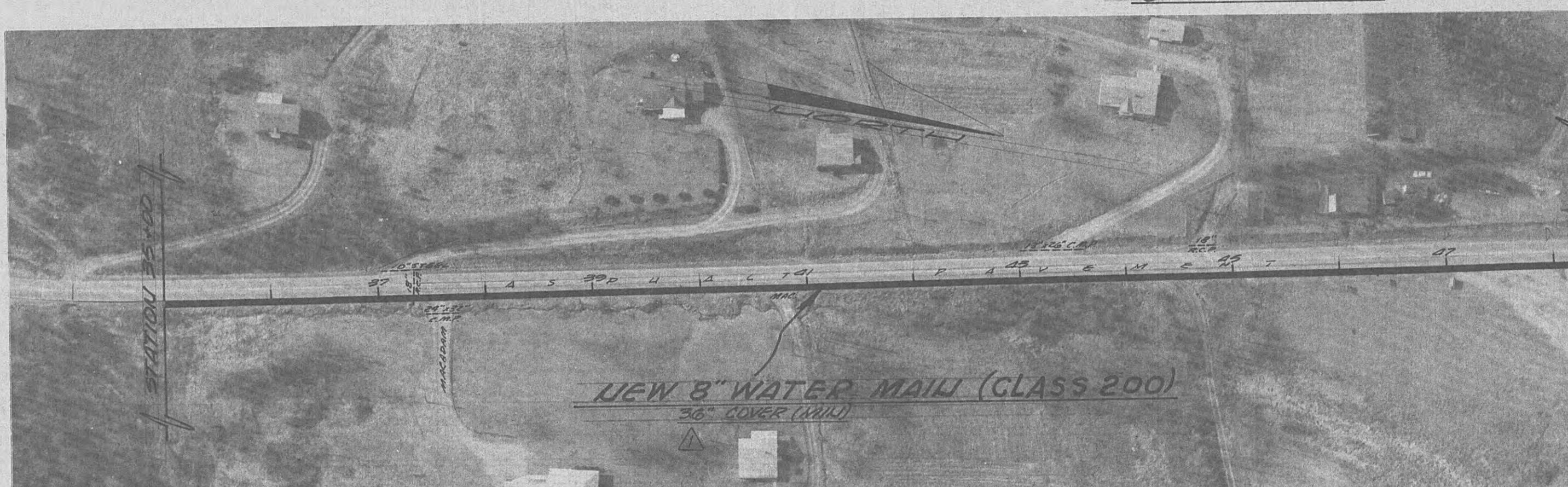
WATER SYSTEM IMPROVEMENTS
FOR WOLFE BRANCH UTILITY DISTRICT
 MORGAN & ROANE CO'S. TENNESSEE
 BLACK, CROW AND EIDSNESS, INC.
 ENGINEERS
 GAINESVILLE FLORIDA
 DRAWN BY: R.M. DATE: OCT. 1968
 CHECKED BY: C.GRIFFIN FILE NO.: 462-68-1
 SCALE: 1" = 100'
 NEW 8" WATER MAIN ALONG J.LON COUST
 LIVY. & NEW 6" & 2" WATER LINES ALONG
 HARRIMAN JUNCTION ROAD



NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS

J. L O N F O U S T EXISTING GRADE

6x4' BOX CULVERT STA. 18+90

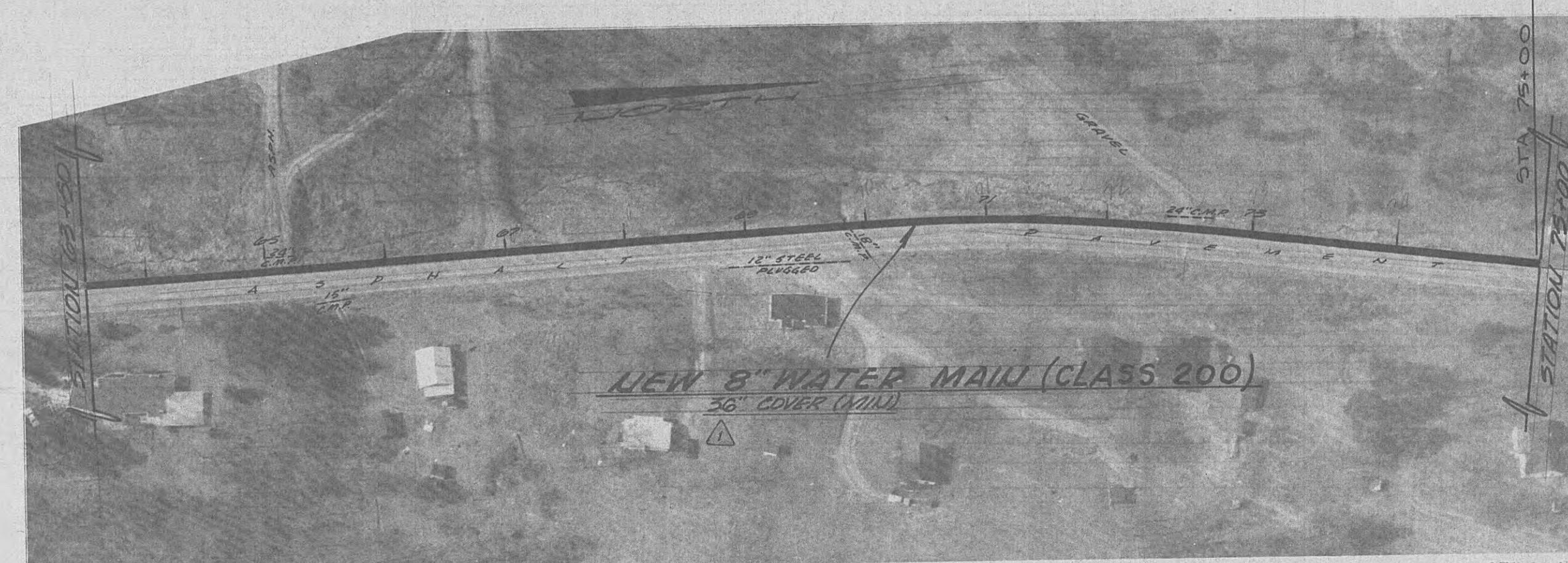


NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS

J. L O N F O U S T EXISTING GRADE

18" R.C.P.
STA. 37+25

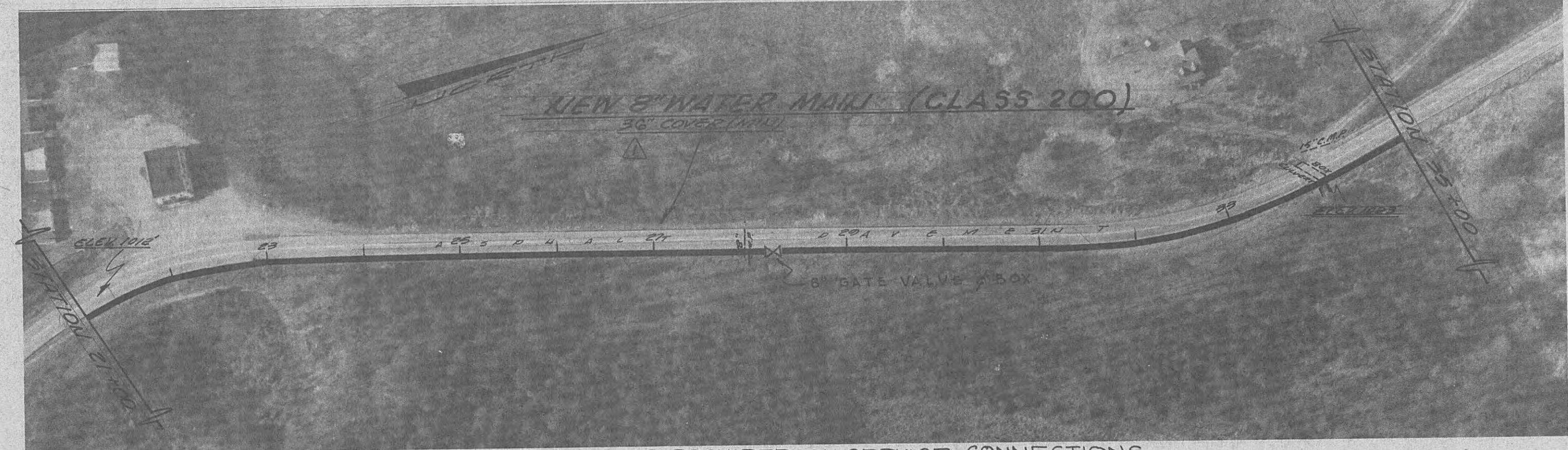
END CLASS 200 PIPE → BEGIN CLASS 150 PIPE



NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS

J. L O N F O U S T EXISTING GRADE

18" R.C.P.
STA. 68+80



NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS

H W Y. (S T A T E R O O D 2 9) EXISTING GRADE

18" C.M.P. STA. 22+25



NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS

H W Y. (S T A T E R O O D 2 9) EXISTING GRADE

5x5' BOX CULVERT STA. 36+80

24" C.M.P. STA. 50+80



NOTE: PRESSURE REDUCING VALVE REQUIRED ON SERVICE CONNECTIONS

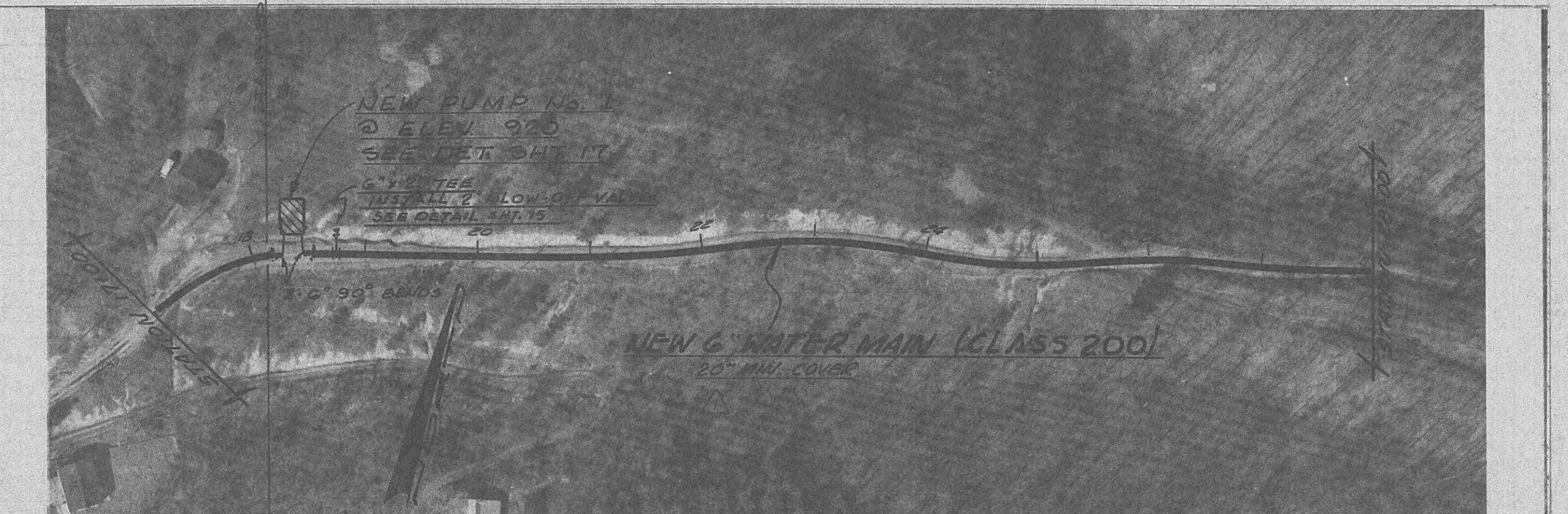
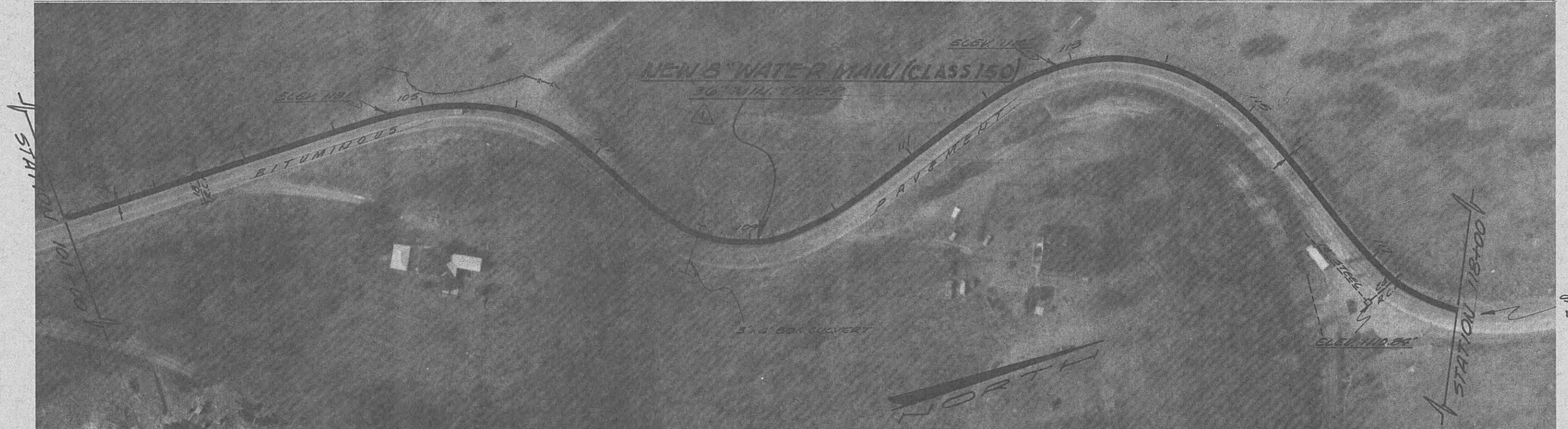
H W Y. (S T A T E R O O D 2 9) EXISTING GRADE



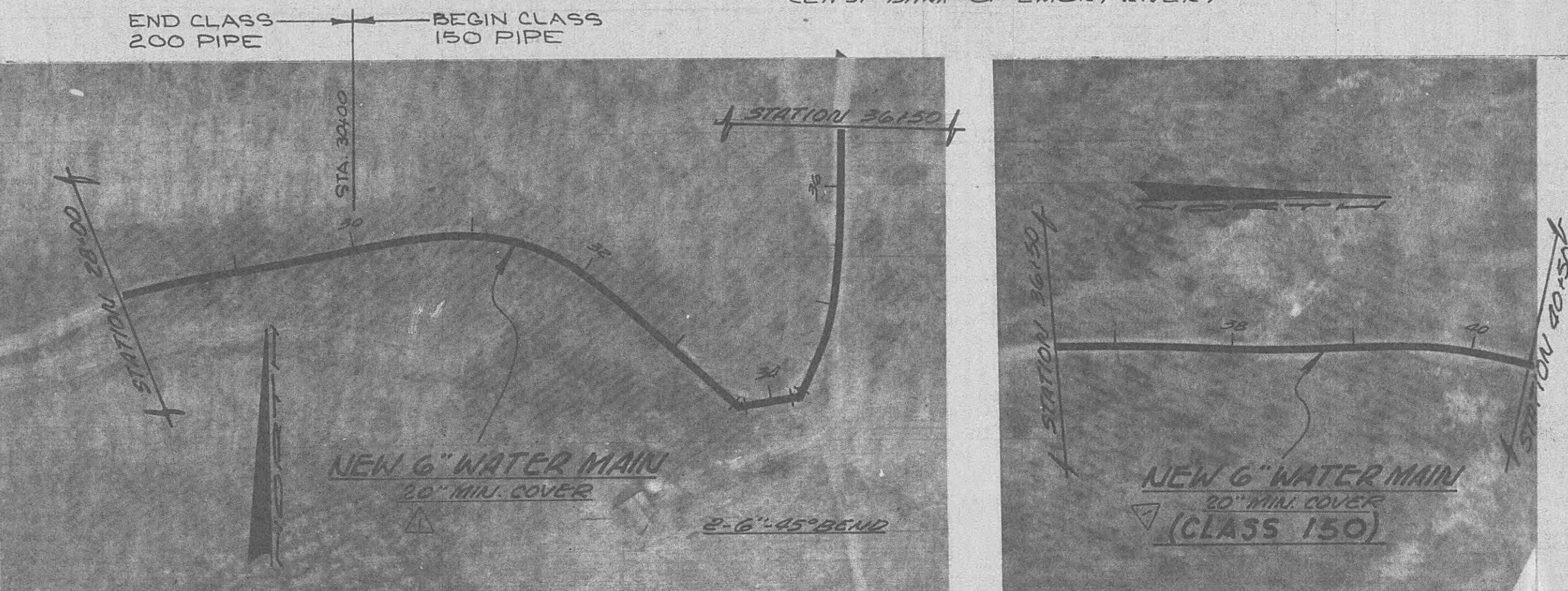
WATER SYSTEM IMPROVEMENTS
FOR WOLFE BRANCH UTILITY DISTRICT
MORGAN & ZOUNE CO'S. TENNESSEE
BLACK, CROW AND EIDNESS, INC.
ENGINEERS
GAINESVILLE FLORIDA
DRAWN BY: K. ROSECRANS DATE: OCT. 1968
CHECKED BY: G. CRIBBIN FILE NO.: 652-661
SCALE:
REVISED MIN. COVER 3/16/69
NO. DESCRIPTION DATE
REVISIONS

NEW 8" WATER MAIN ALONG
J. LON FOUST HIGHWAY

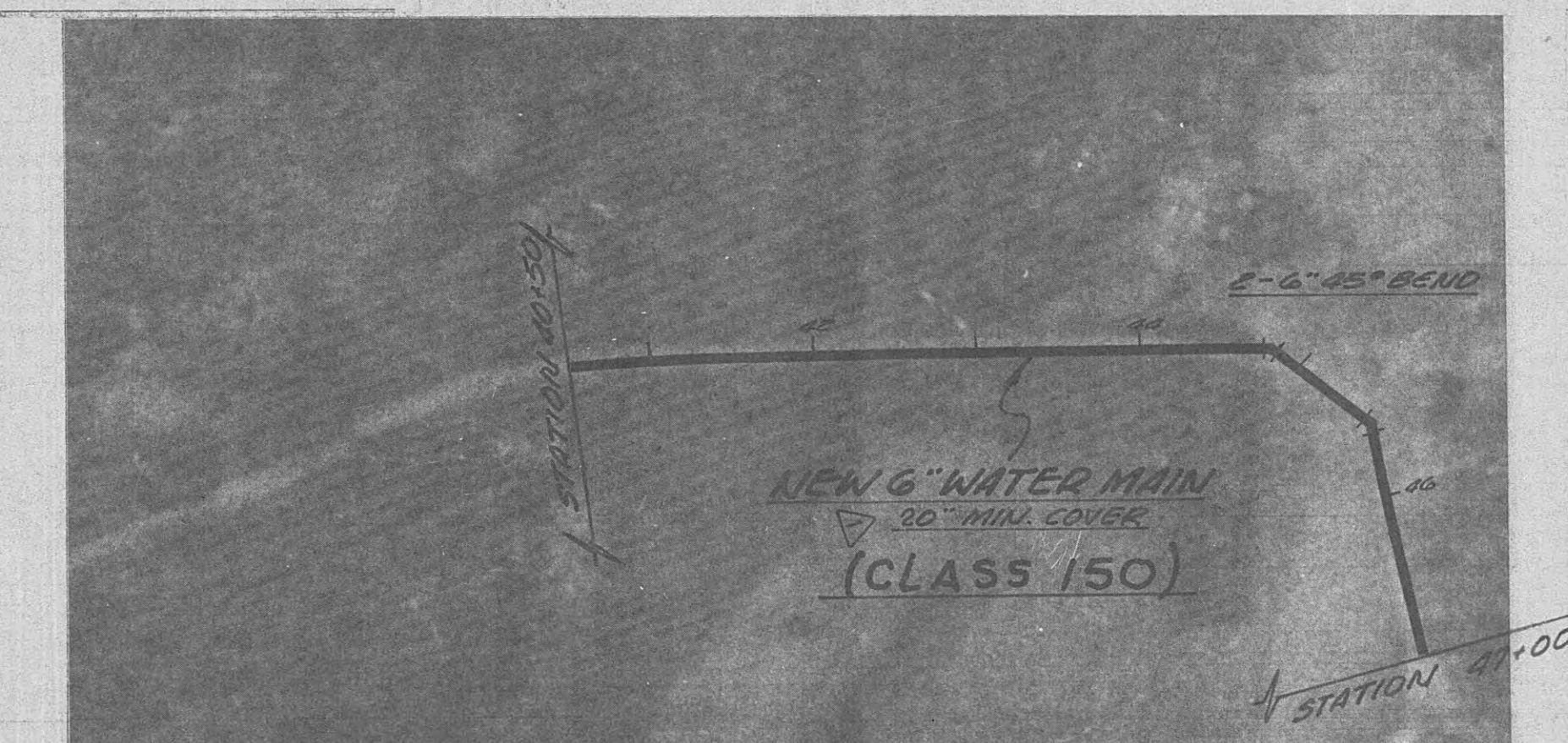
SHEET NO. 3



OAKDALE, TENNESSEE (EAST BANK OF EMMORY RIVER)



TURKEY KNOB ROAD

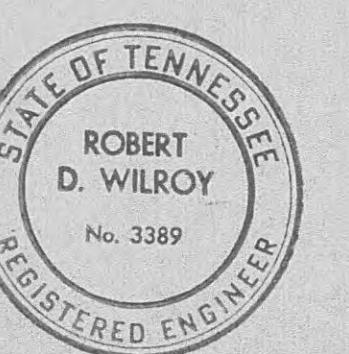


NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTION

T U R K E

K N O B

R O A D



405

E:
OPEN DITCH MUST BE A
MINIMUM OF 3 FEET
FROM EDGE OF PAVEMENT.

<u>NO.</u>	<u>DESCRIPTION</u>	<u>DATE</u>
1	REVISED MIN. COVER	3/12/69

WATER SYSTEM IMPROVEMENTS
& WOLFE BRANCH UTILITY DISTRICT

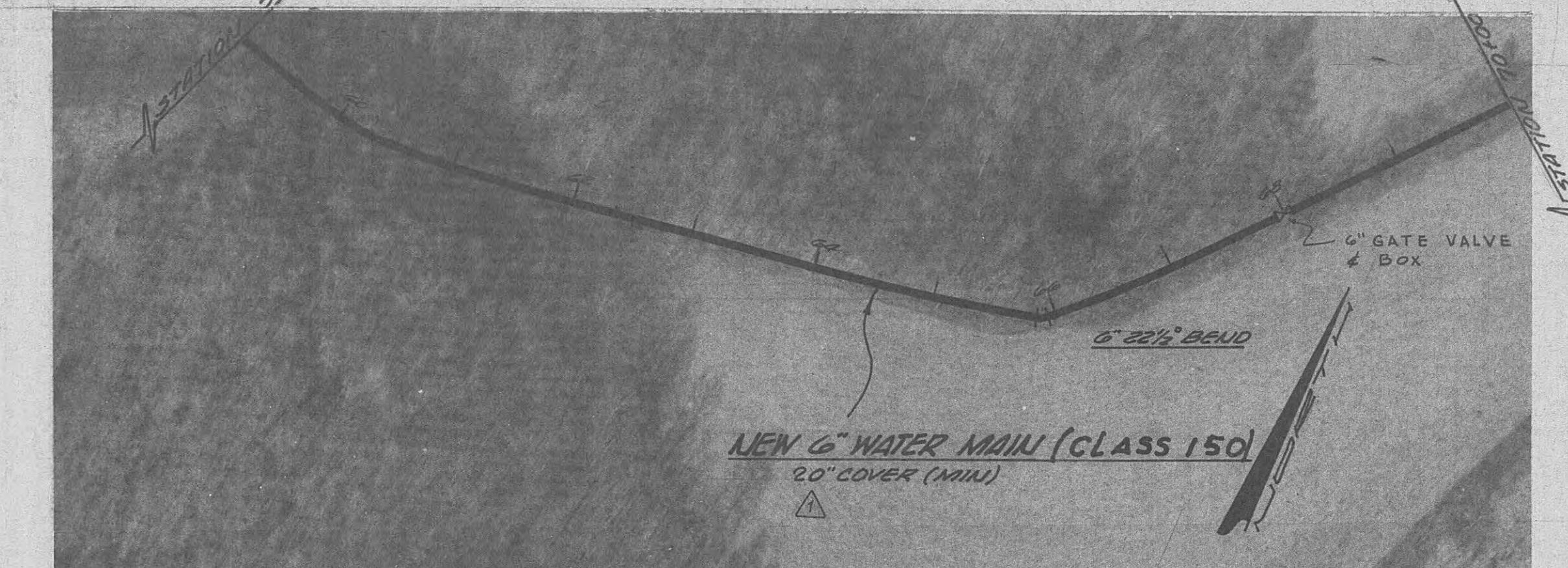
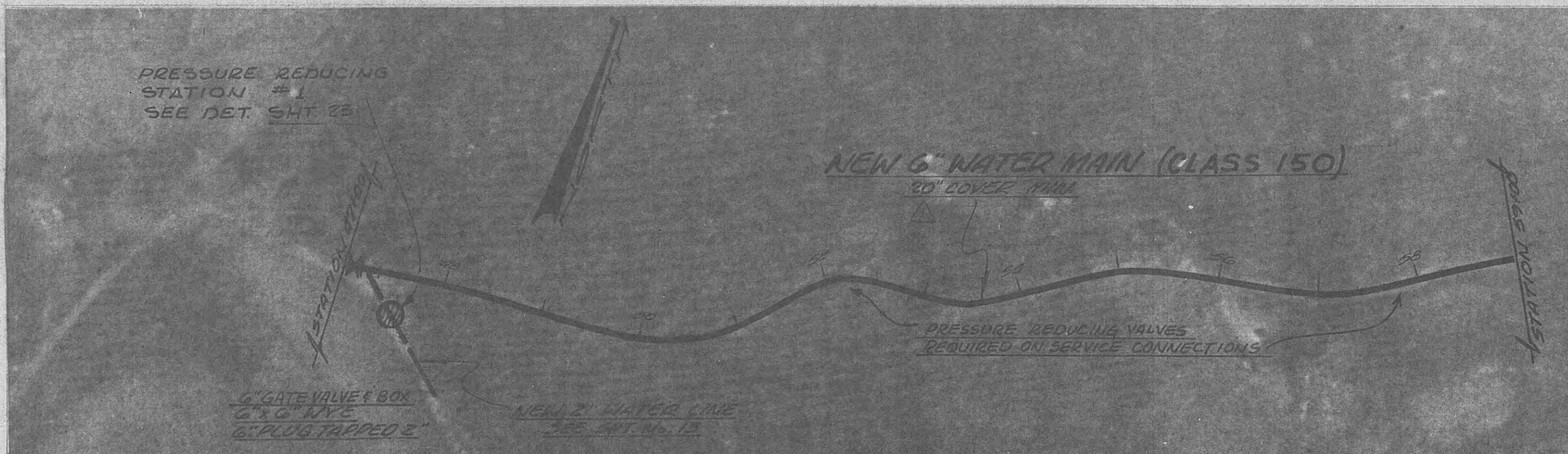
BLACK, CROW AND EIDSNESS, INC.
ENGINEERS

GAINESVILLE FLORIDA
DRAWN BY: C. MARTIN DATE: OCT 1968

DRAWN BY: J. MARTIS DATE: JULY, 1900
CHECKED BY: C. GRIFFIN FILE NO.: 462-108-1

SCALE: 1"=100' HORZ.
NEW 8" WATER MAIN ALONE

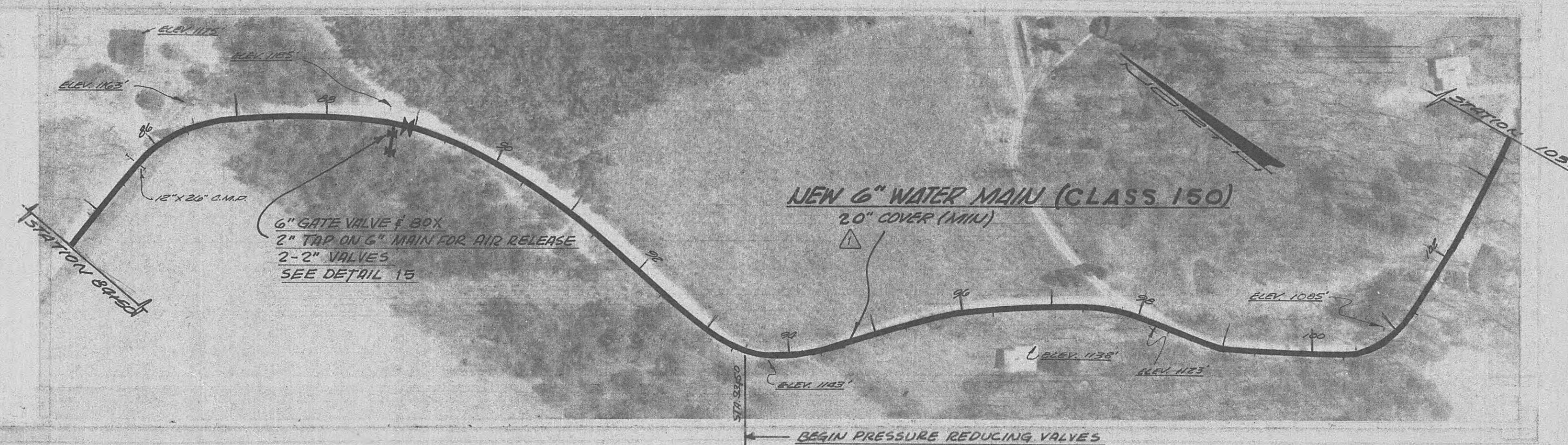
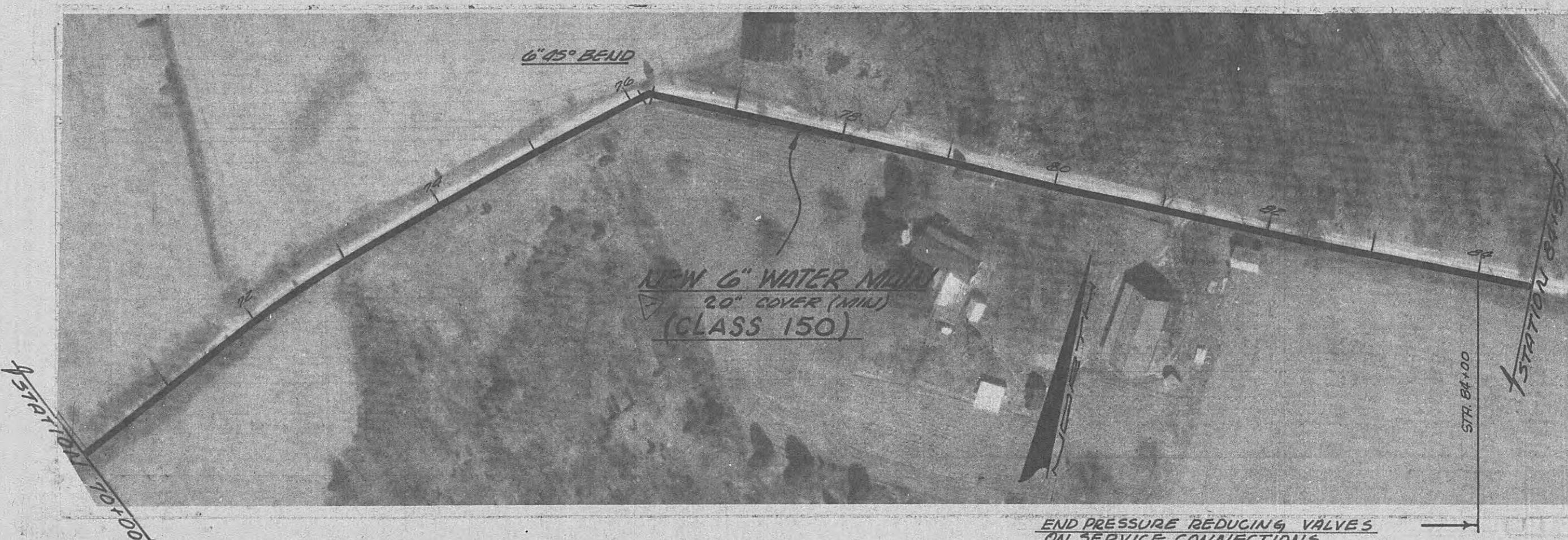
NEW 6" WATER MAIN ALONG
J. LON FOUST HWY. (STATE ROAD
429) & 6" ALONG TURKEY KNOB RD.



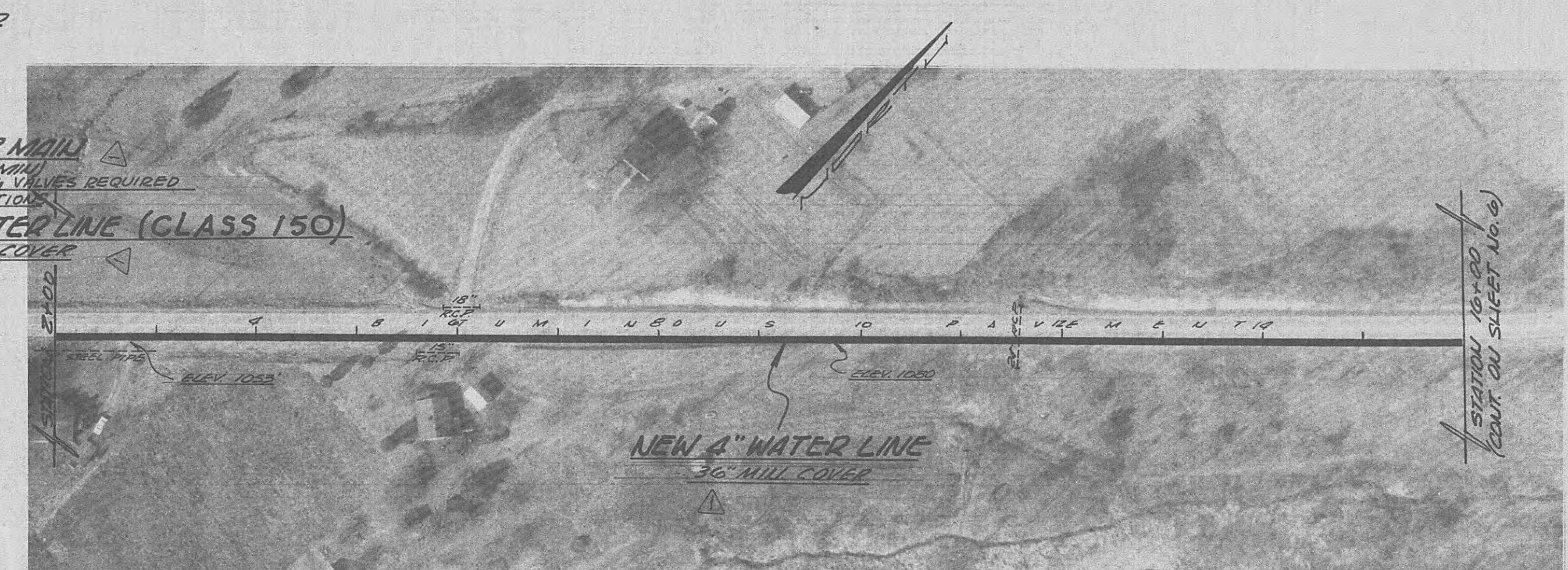
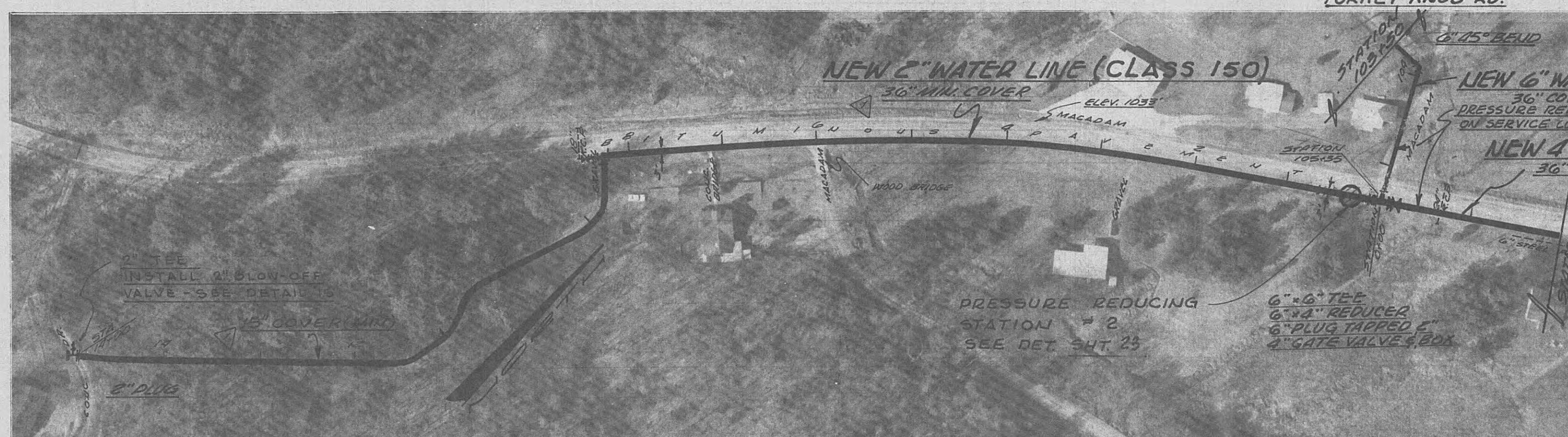
T U R K E Y

K N O B R O A D

NOTE : PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS



ON SERVICE CONNECTIONS ON SERVICE CONNECTIONS
T U R K E Y K N O B R O A D



NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS

J. CONN FORT HILL

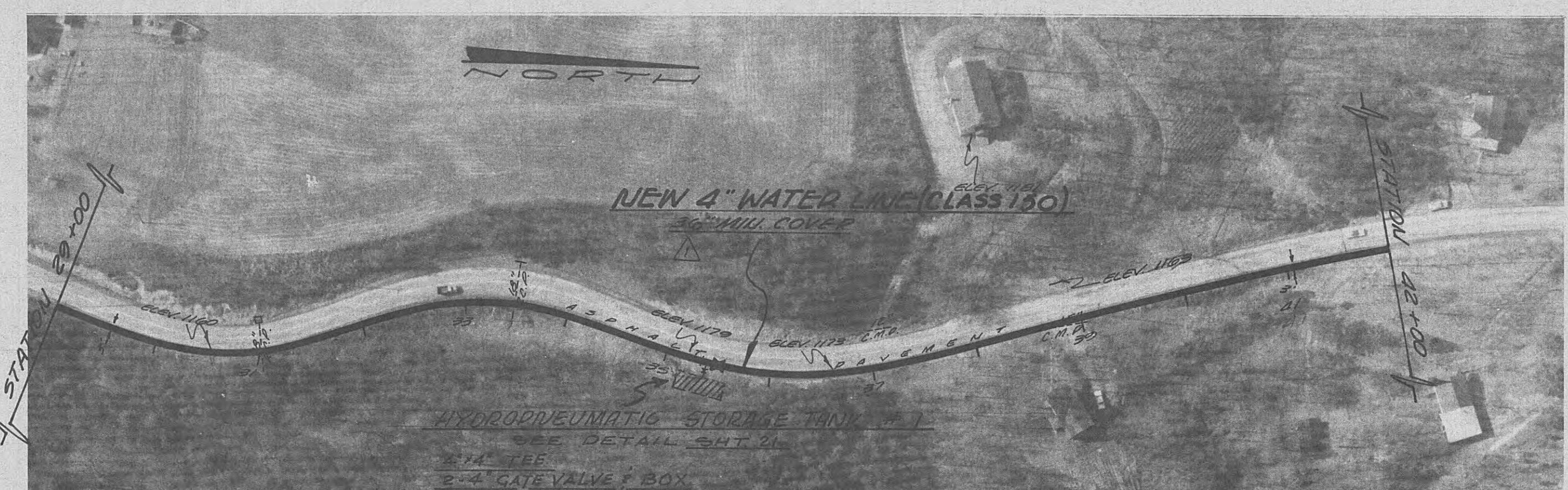
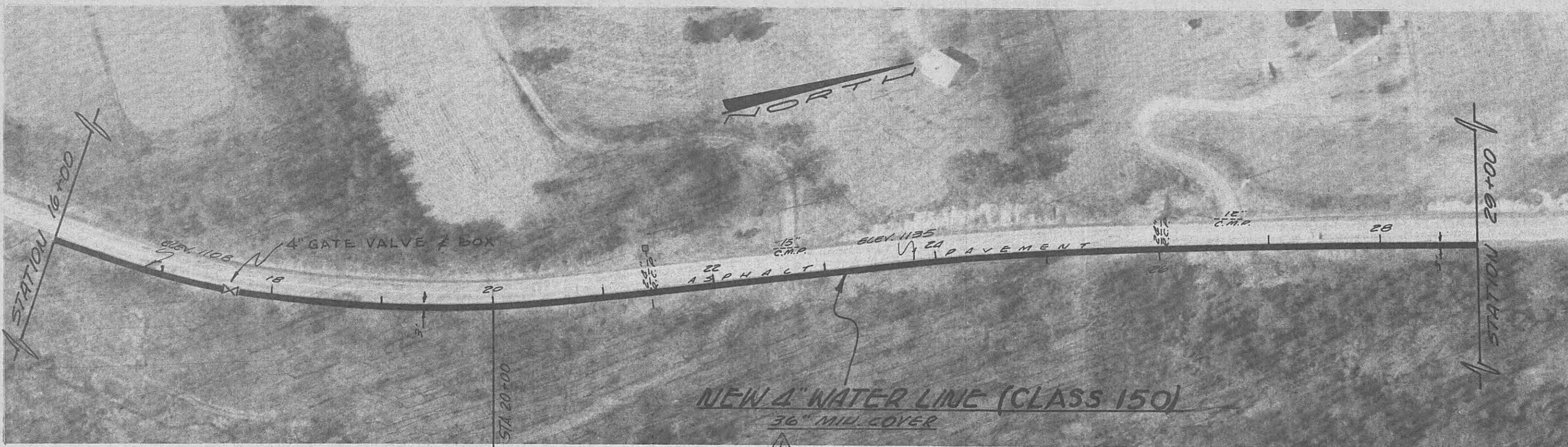
(S T A R T E R R O A D 2 9)



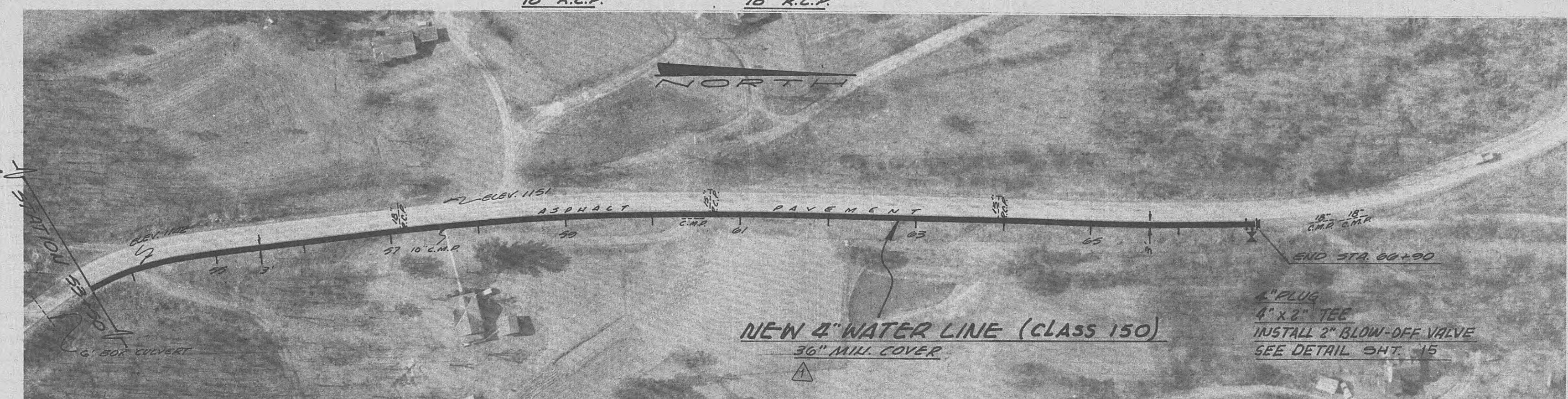
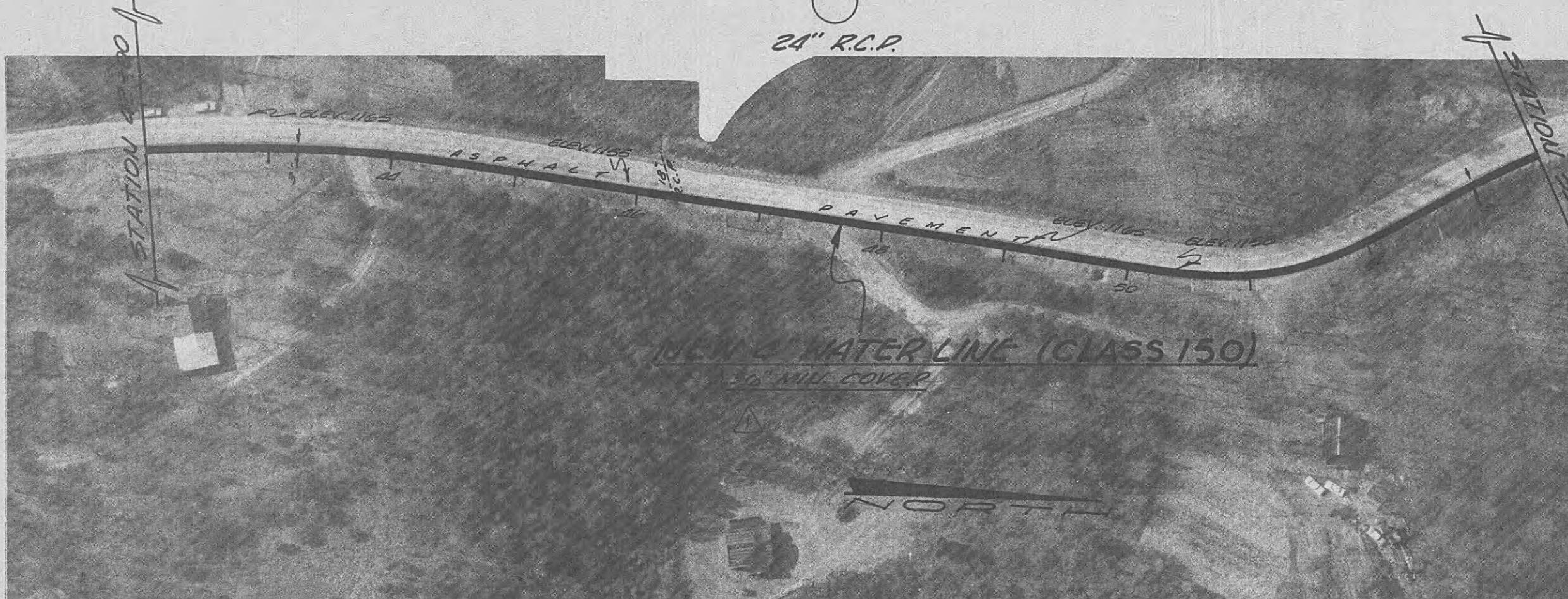
AERIAL PHOTOGRAMICS, INC.

WATER SYSTEM IMPROVEMENTS
FOR WOLFE BRANCH UTILITY DISTRICT
 MORGAN & ROANE CO'S. TENNESSEE
 BLACK, CROW AND EIDSNESS, INC.
 ENGINEERS
 GAINESVILLE FLORIDA
 DRAWN BY: J. MARTIS DATE: OCT. 1961
 CHECKED BY: C.GRIFFIN FILE NO.: 402-68-1
 SCALE: 1"-100' HORIZ.

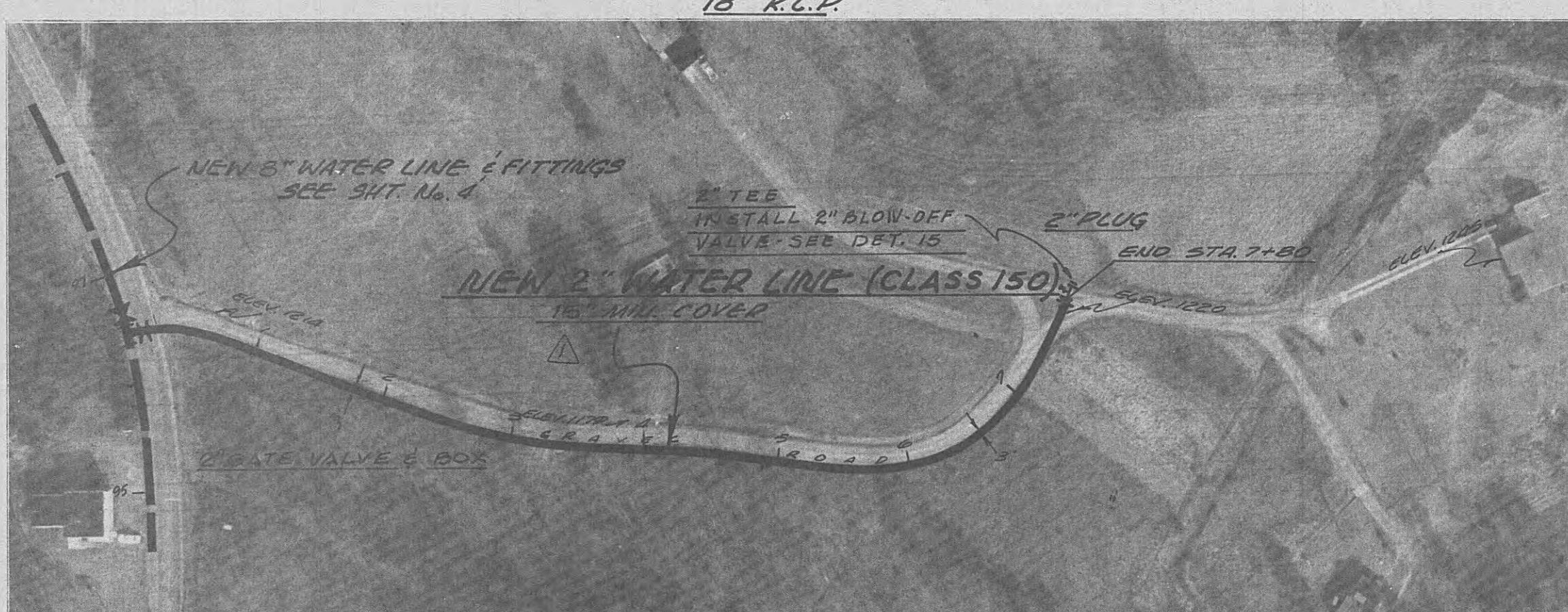
			SCALE: 1 - 100' HORIZ.	SHEE NO. 5
REVISED MIN. COVER	DESCRIPTION	DATE	NEW 2" & 4" WATER LINE ALONG J. LON FOUST HWY. (S.R. NO. 29) EG" ALONG TURKEY KNOB RD	
D O.	REVISIONS	3/12/69		



J. L. O'NEILL FOUNDRY HWY. (STATE ROAD 29)



J. C. ON FOUNT HWY. (STATE ROAD 29)



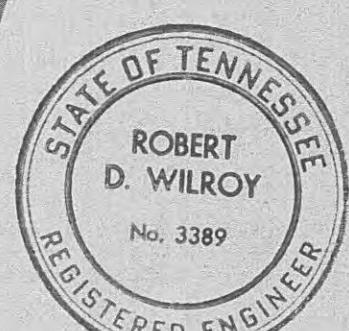
J. COH FOUST HWY. (S.R. NO. 29)

NOTE: PRESSURE REDUCING VALVES REQUIRED
ON SERVICE CONNECTIONS BELOW ELEV. 122

4 FOUST HINX. (S.R. No. 29)

NOTE: PRESSURE REDUCING VALVES REQUIRED
ON SERVICE CONNECTIONS

NOTE: OPEN DITCH MUST BE A
MINIMUM OF 3 FEET
FROM EDGE OF PAVEMENT.



WATER SYSTEM IMPROVEMENTS
WOLFE BRANCH UTILITY DISTRICT

BLACK, CROW AND EIDSNESS, INC.
ENGINEERS

ENGINEERS

AINESVILLE **FLORIDA**

DRAWN BY: J. MARTIS **DATE: OCT. 1908**

HECKED BY: C.GRIFFIN FILE NO.: A62-68-1
SCALE: 1"-100' HORIZ.

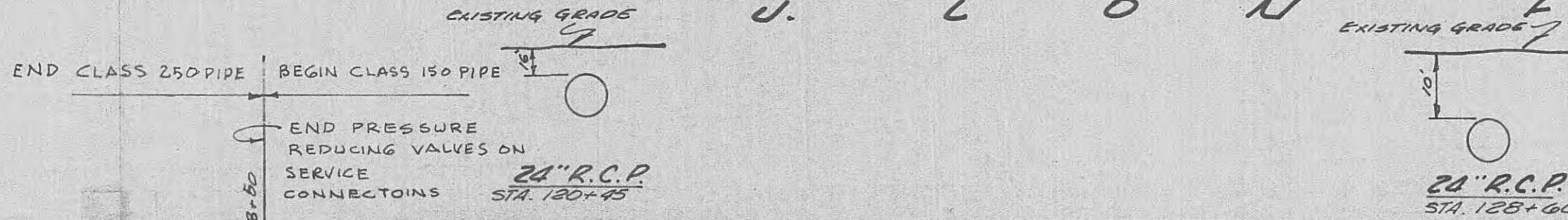
NEW 2" & 4" WATER LINE ALONG
J. LON FOUST HWY. (S.R. #6, 29)

10

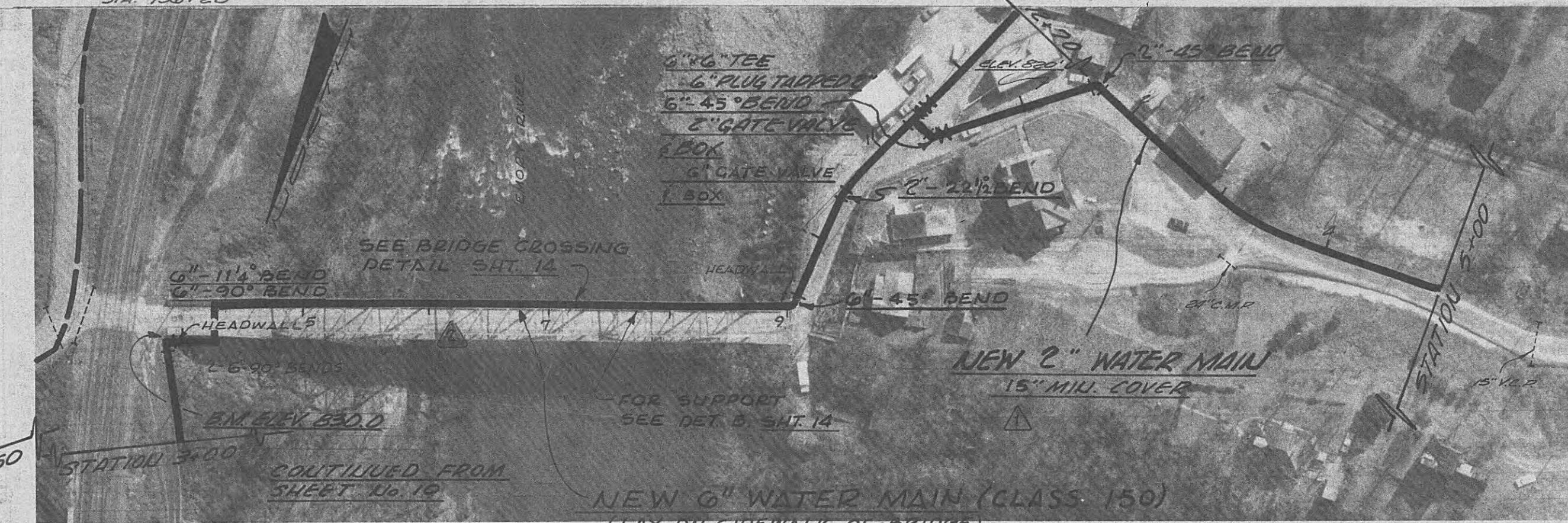
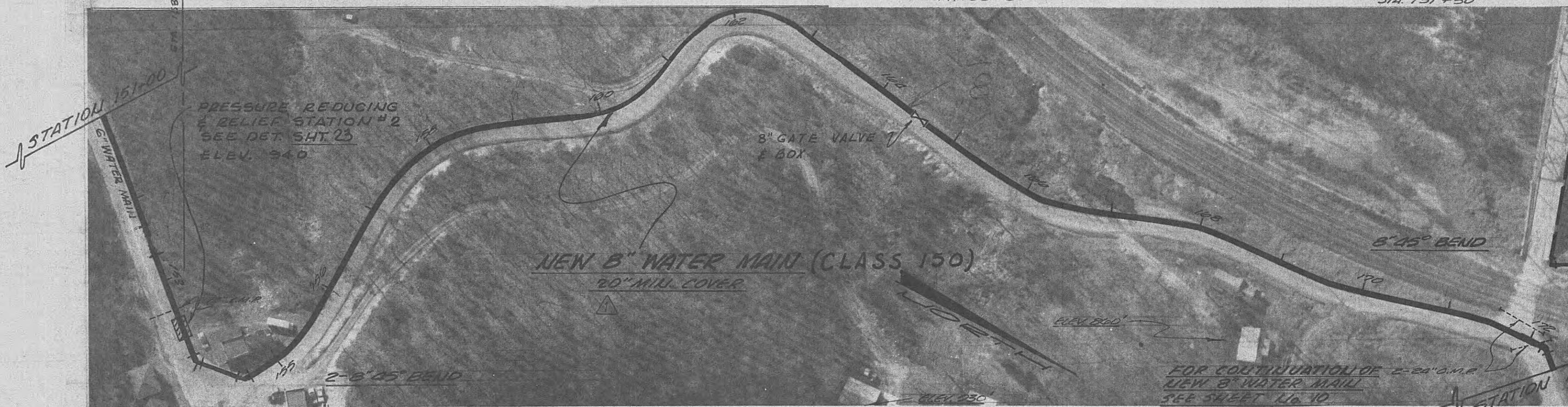
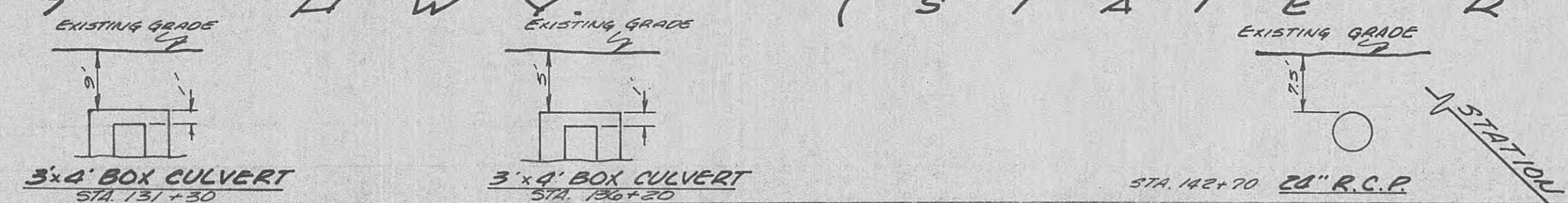
Digitized by srujanika@gmail.com



NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS.



NOTE: PRESSURE REDUCING VALVES REQUIRED ON SERVICE CONNECTIONS.

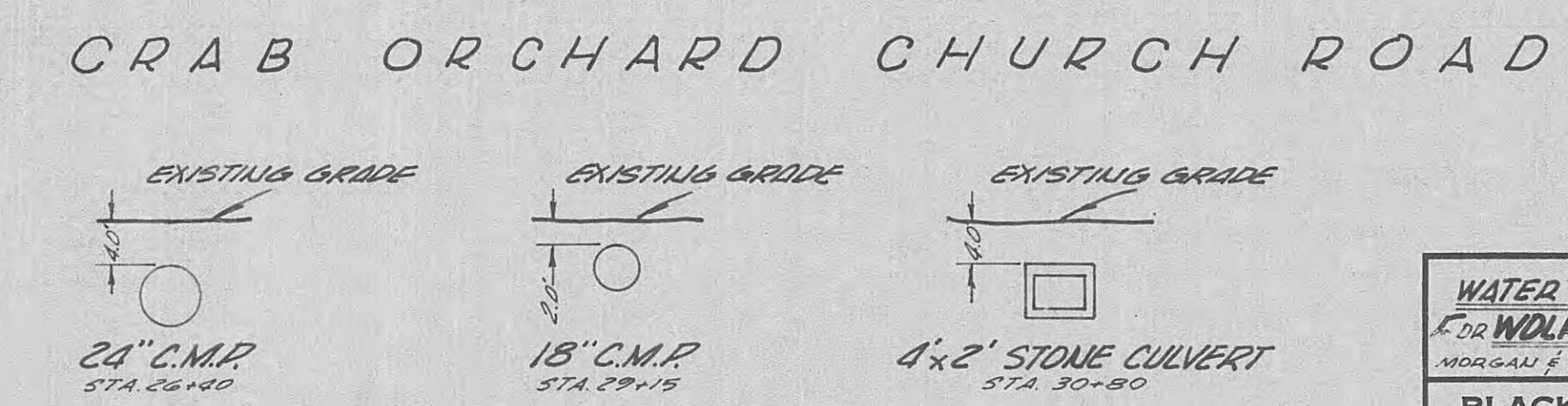
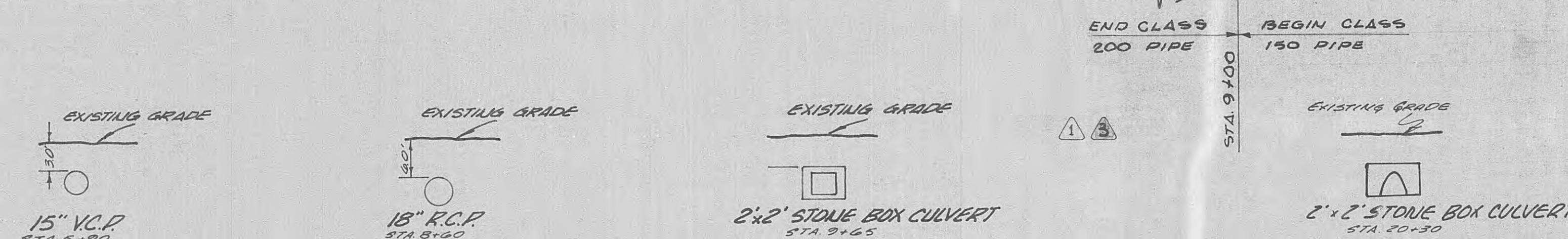
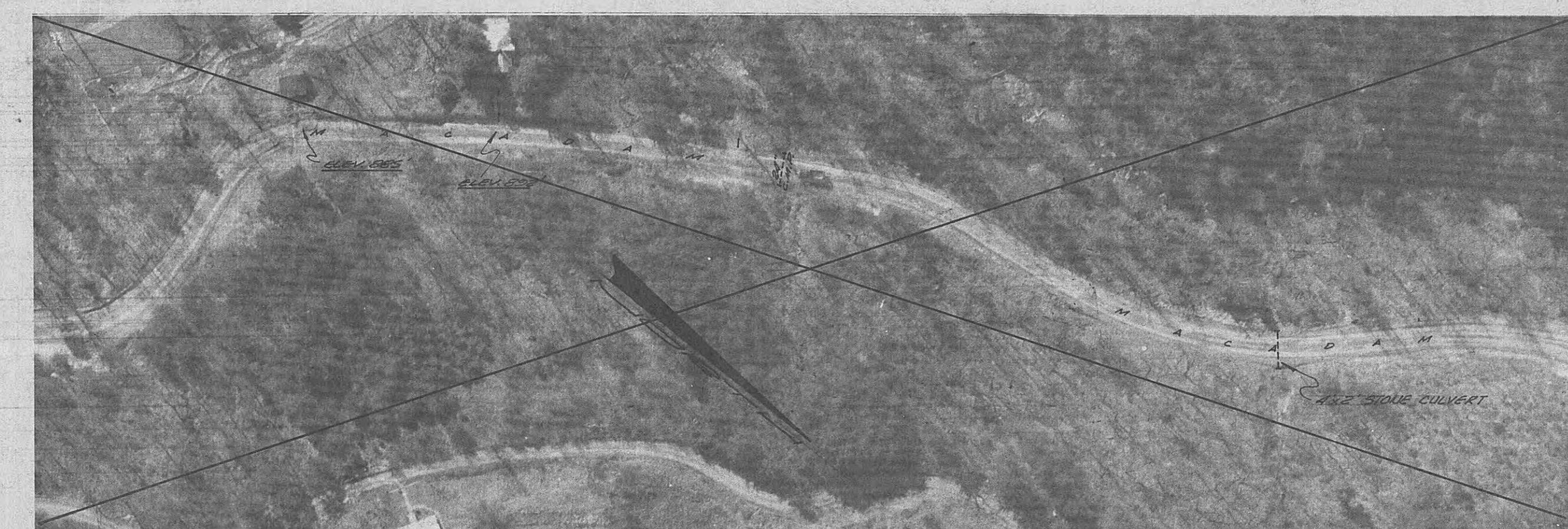
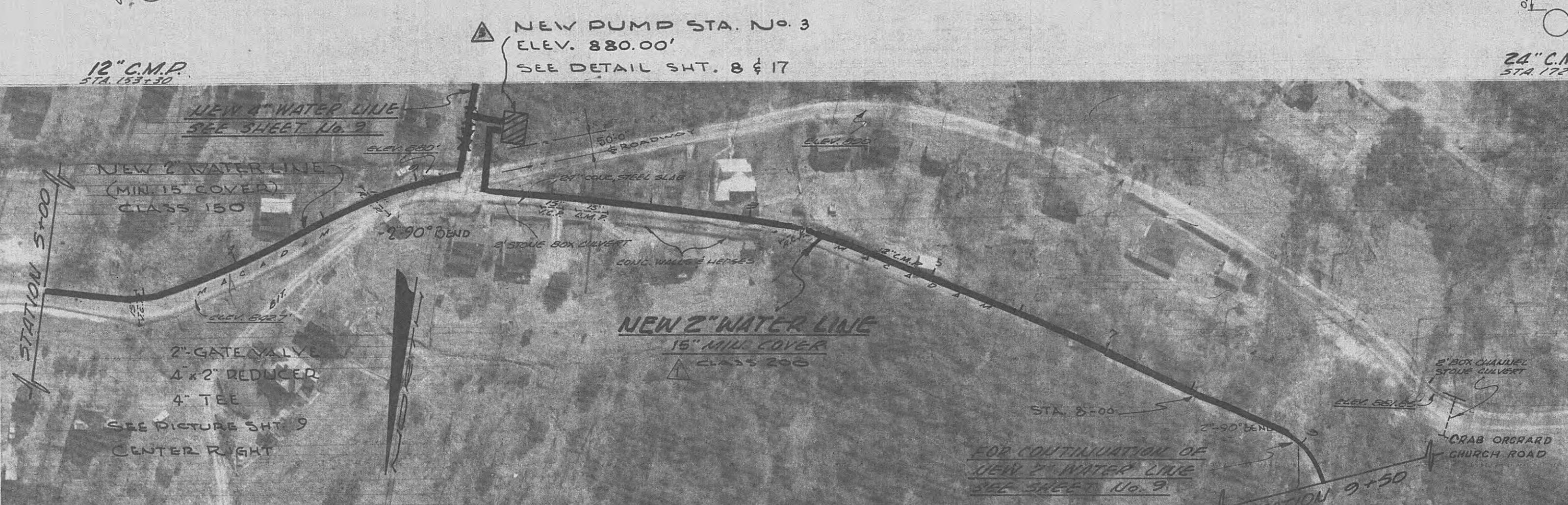


EXISTING GRADE
NOTE:
1. PRESSURE REDUCING VALVES DISCHARGE PRESSURE SET AT APPROX. 30 P.S.I.
2. PRESSURE RELIEF VALVE SET AT 45 P.S.I.

S T A T E R O A D 2 9 - A

J. LOU FOUST HWY (S.R. NO. 29)

OAK DALE TENNESSEE
(WEST BANK OF EMORY RIVER)



NOTE:
OPEN DITCH MUST BE A
MINIMUM OF 3 FEET
FROM EDGE OF PAVEMENT.

- ▲ Revised Pump Sta. No. 4
- ▲ Moved 6" Water Main
- ▲ Revised Man. Cover & Note
- NO. DESCRIPTION DATE
- REVISIONS

WATER SYSTEM IMPROVEMENTS FOR WOLFE BRANCH UTILITY DISTRICT		
MORGAN & ROANE CO'S. TENNESSEE		
BLACK, CROW AND EIDSNESS, INC. ENGINEERS		
GAINESVILLE	FLORIDA	
DRAWN BY: J. MARTIS	DATE: OCT. 1968	
CHECKED BY: C. GRIFFIN	FILE NO. 102-68-1	
SCALE: 1"=100' HORZ.		
▲ Revised Pump Sta. No. 4	6/30/68	
▲ Moved 6" Water Main		
▲ Revised Man. Cover & Note	3/1/68	
NO. DESCRIPTION DATE		
REVISIONS		

NEW 6" & 8" WATER MAINS ALONG
TURKEY KNOB ROAD,
SHEET NO. 7
F.S.R. 29-A. NEW 6" WATER LINE
ALONG

STATE OF TENNESSEE
ROBERT
D. WILROY
REGISTERED ENGINEER
No. 3389