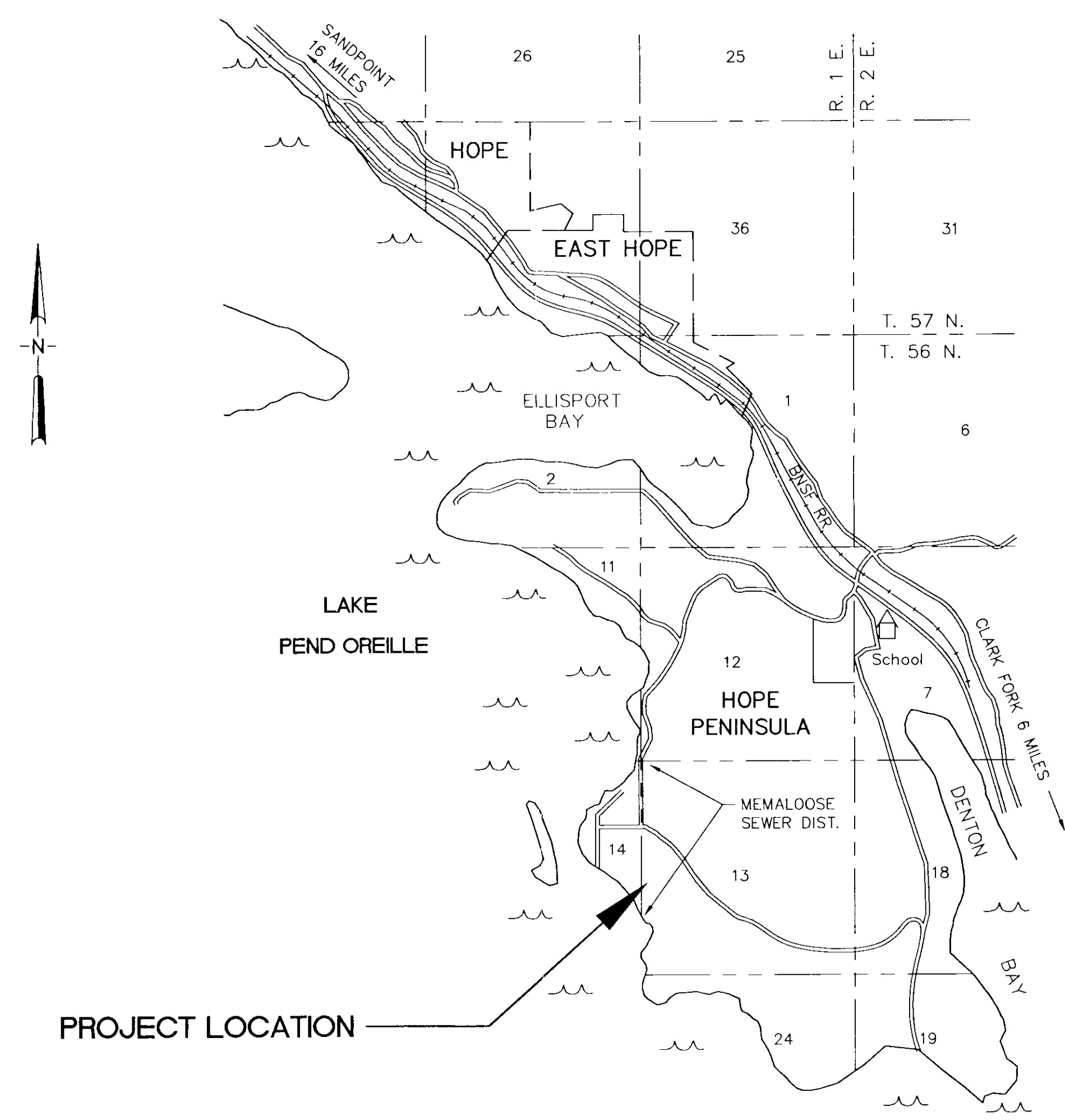


WATER SYSTEM IMPROVEMENTS
FOR
KULLYSPELL ESTATES
1998
RECORD DRAWINGS

RECEIVED
11/11/98
KULLYSPELL ESTATES



INDEX OF SHEETS

1. COVER SHEET
2. SITE PLAN
3. INTAKE SYSTEM PLAN AND DETAILS
4. SSF PIPING PLAN
5. SSF PIPING PLAN
6. SSF STRUCTURAL PLAN
7. SSF STRUCTURAL PLAN
8. CHLORINE CONTACT CHAMBER
9. WATER LINE PLAN/PROFILE
10. RESERVOIR PLANS
- E. ELECTRICAL PLANS

OWNER

KULLYSPELL ESTATES PROP. OWNER'S ASSOC.
P.O. BOX 404
HOPE, IDAHO 83836

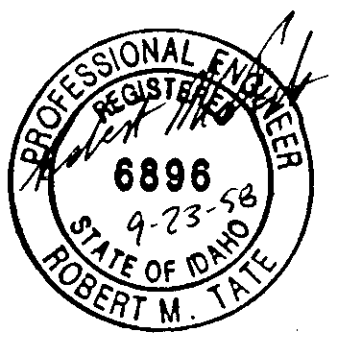
ENGINEER

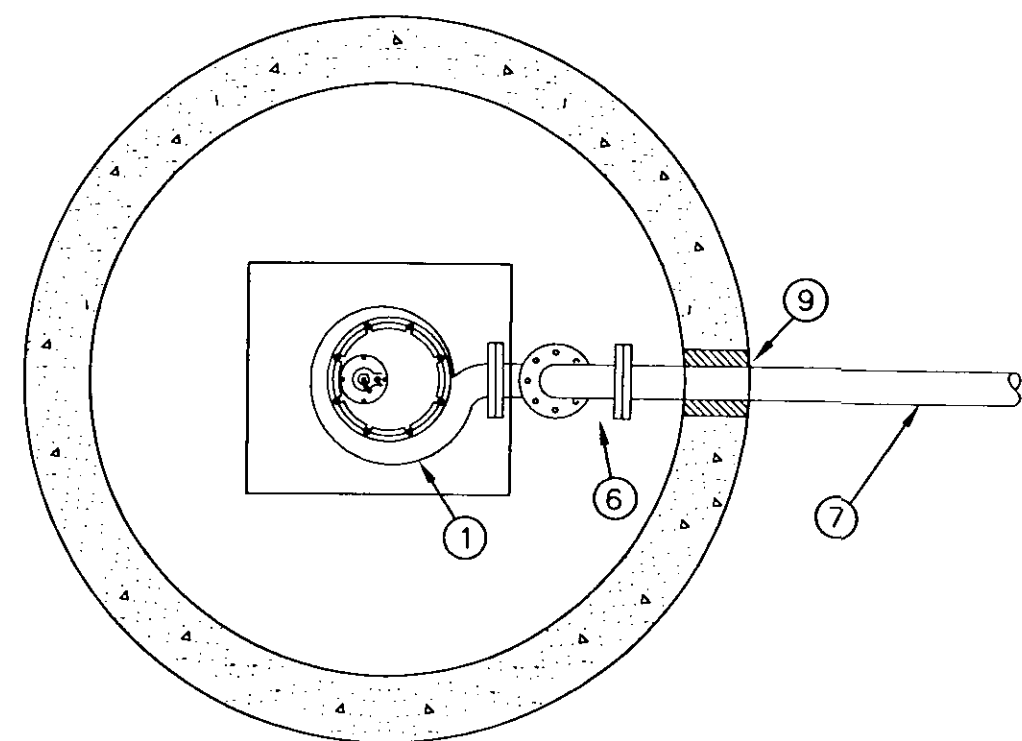
RUEN-YEAGER & ASSOCIATES
219 PINE STREET
SANDPOINT, IDAHO 83864

NOTES:

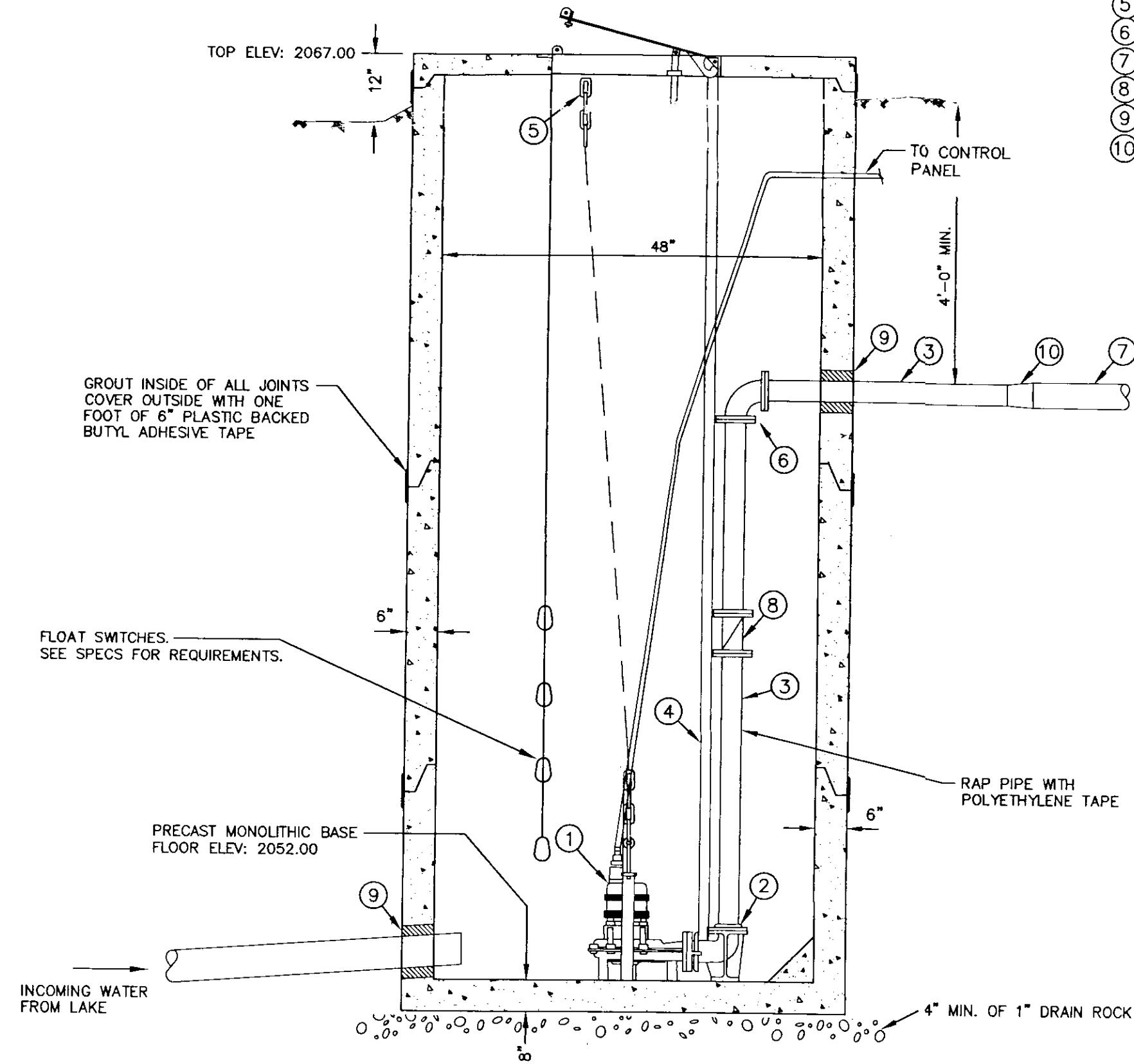
1. THE LOCATION OF UTILITIES SHOWN HEREON WAS OBTAINED FROM RECORD INFORMATION. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UNDERGROUND UTILITIES, SHOWN HEREON OR NOT, PRIOR TO COMMENCING WORK. ANY DISCREPANCIES FOUND WHICH AFFECT THE WORK TO BE DONE, SHALL BE REPORTED TO THE ENGINEER OF WORK SO THAT CONSTRUCTION MODIFICATIONS CAN BE MADE. CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY COMPANIES AROUND WHOSE FACILITIES HE SHALL BE WORKING IN CLOSE PROXIMITY THERETO.
2. IT SHALL BE THE CONTRACTOR'S SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE TIME THE PROJECT IS UNDER CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY AND APPROPRIATE SIGNAGE AND SAFETY DEVICES AS REQUIRED BY FEDERAL, STATE, COUNTY, CITY AND LOCAL REGULATIONS AND LAWS.
3. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION."
4. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION.
5. CONTRACTOR RESPONSIBLE FOR ALL UTILITY LOCATES. CALL BEFORE YOU DIG! 1-800-626-4950
6. THESE RECORD DRAWINGS ARE BASED UPON FIELD OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS. RUEN-YEAGER & ASSOCIATES WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS INCORPORATED INTO THESE DOCUMENTS AS A RESULT.

NOT TO SCALE



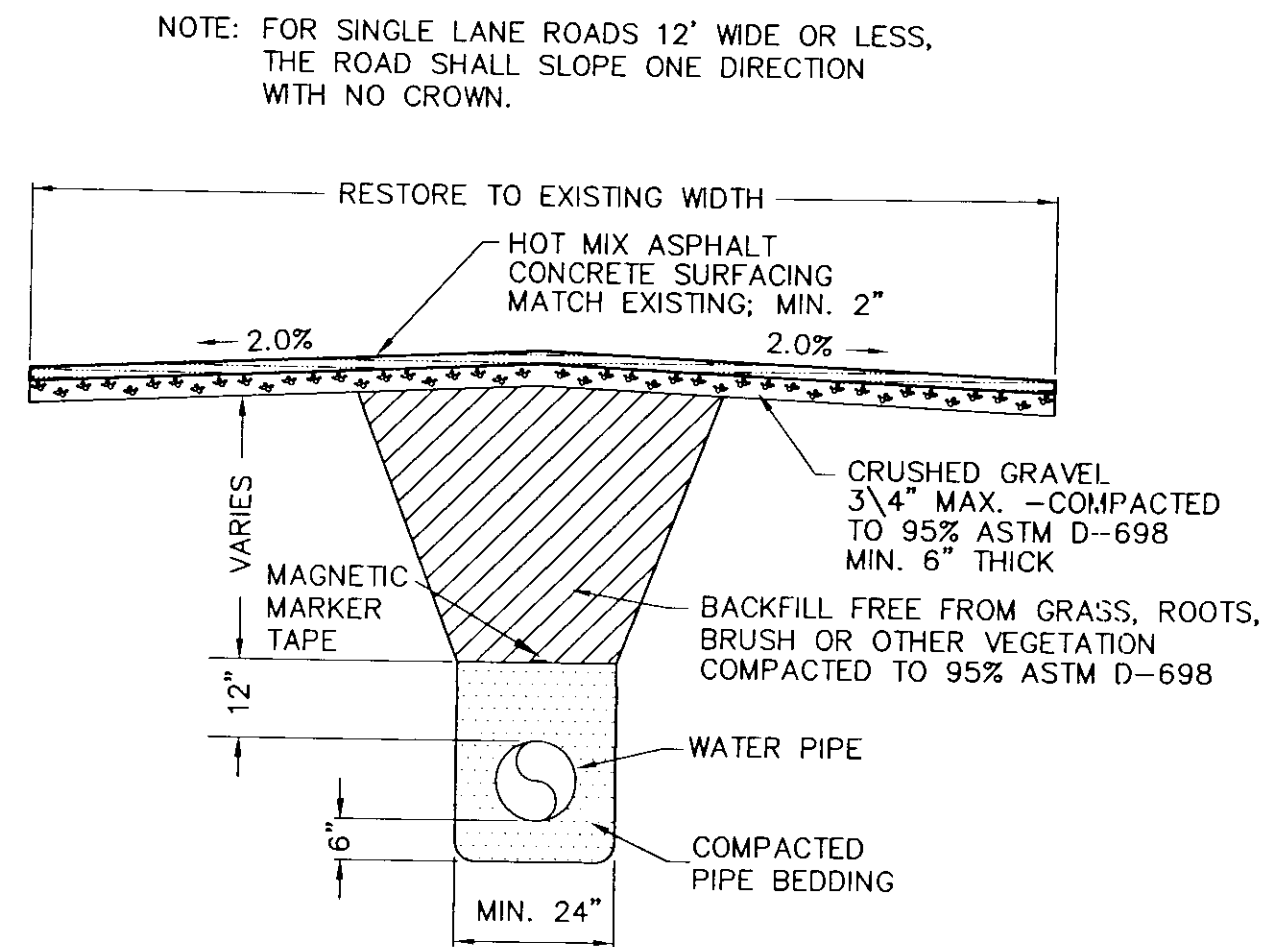


PLAN VIEW

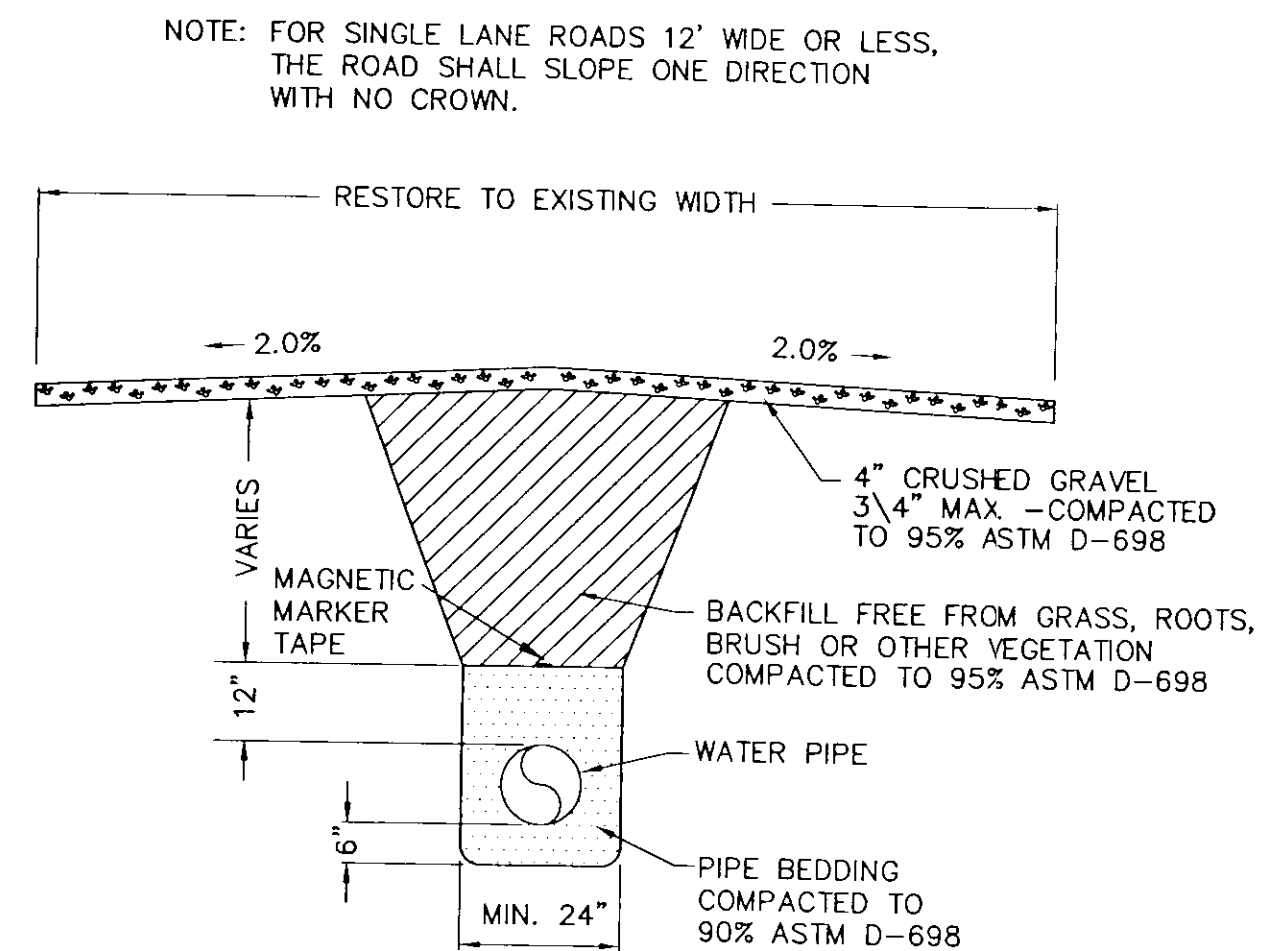


SECTION VIEW

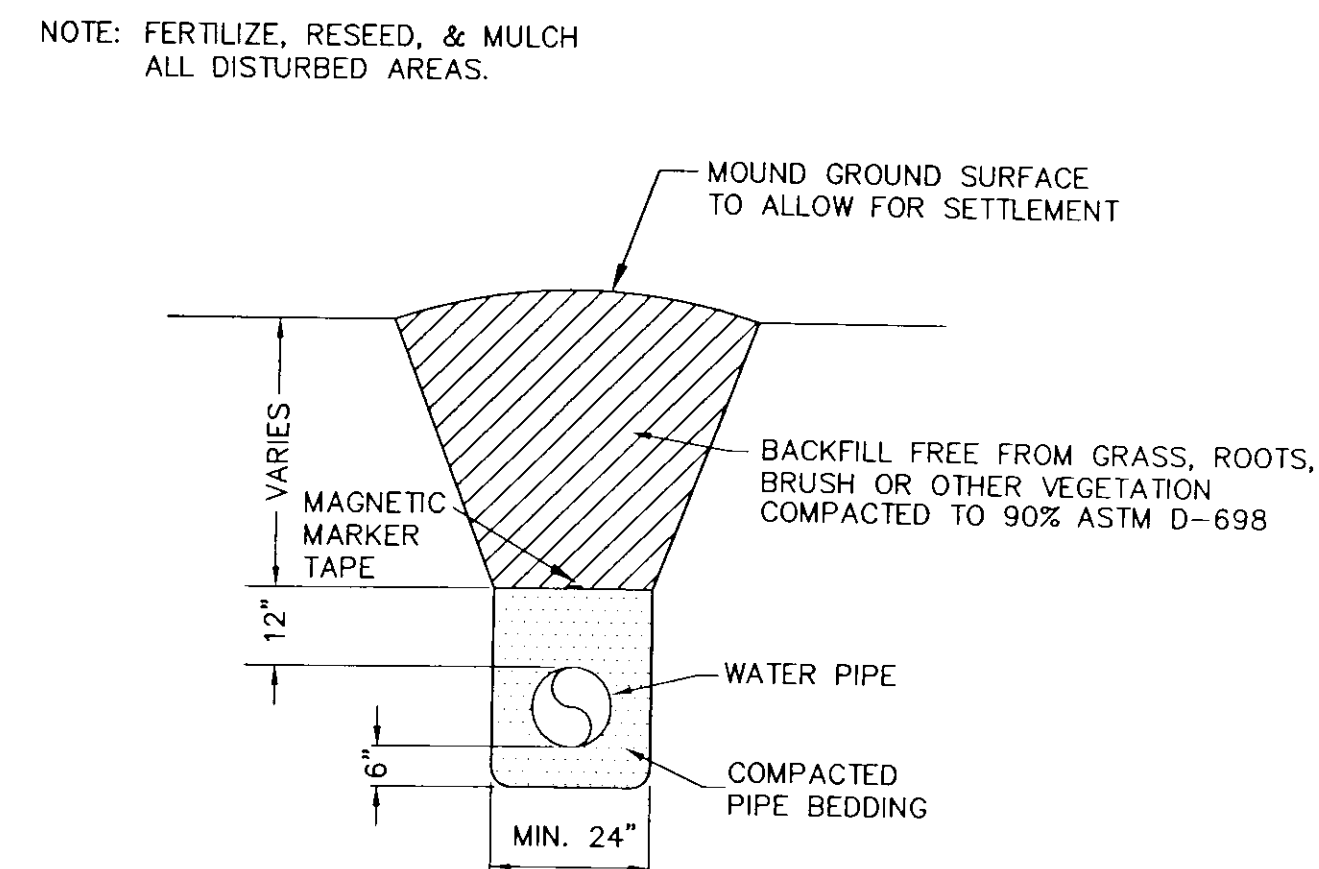
INTAKE SYSTEM PUMP STATION N.T.S.



TYPE 'A'
TRENCHING, BACKFILL,
AND SURFACE REPAIR
N.T.S.



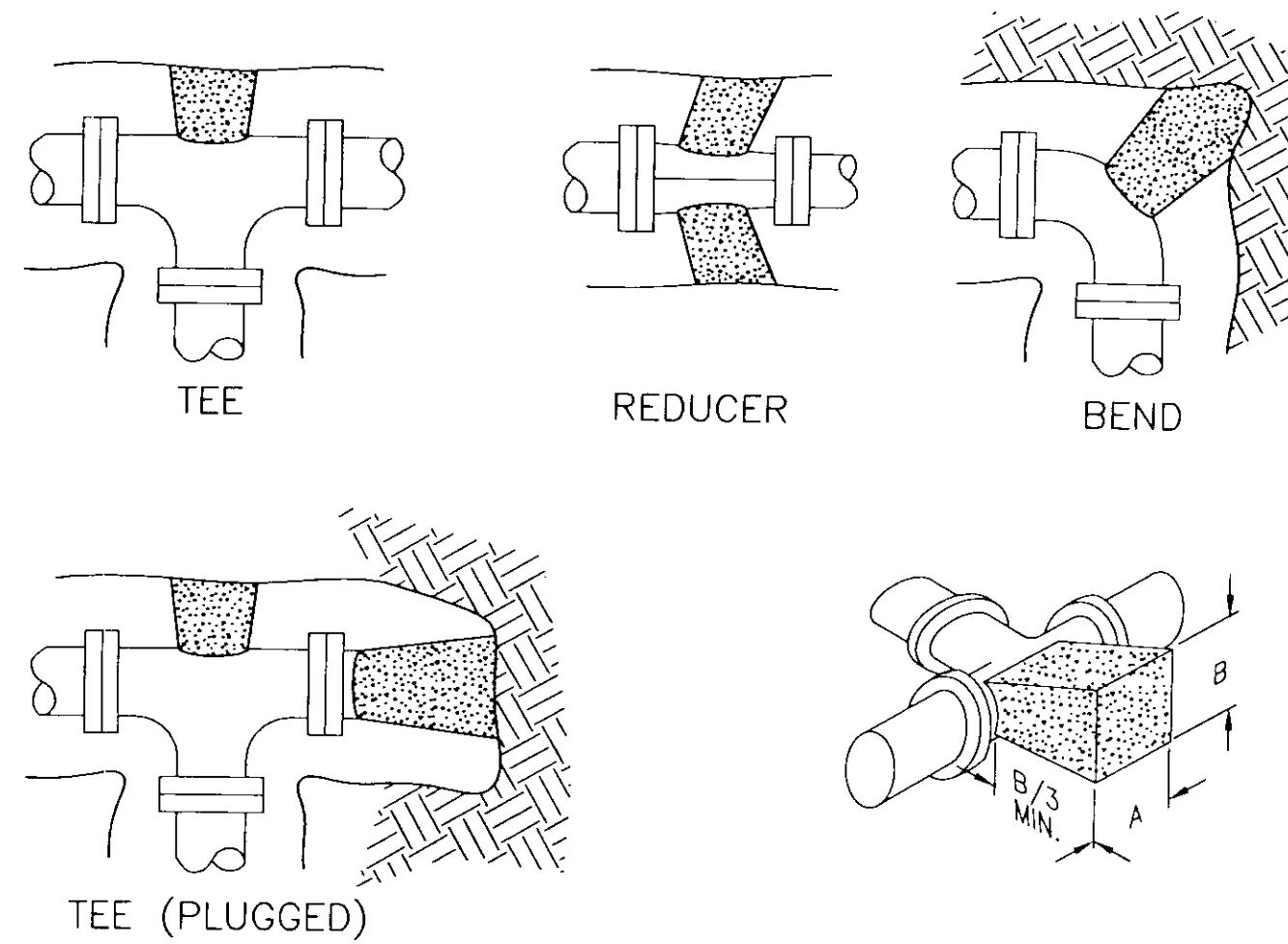
TYPE 'B'
TRENCHING, BACKFILL,
AND SURFACE REPAIR
N.T.S.



TYPE 'C'
TRENCHING, BACKFILL,
AND SURFACE REPAIR
N.T.S.

MATERIALS LIST

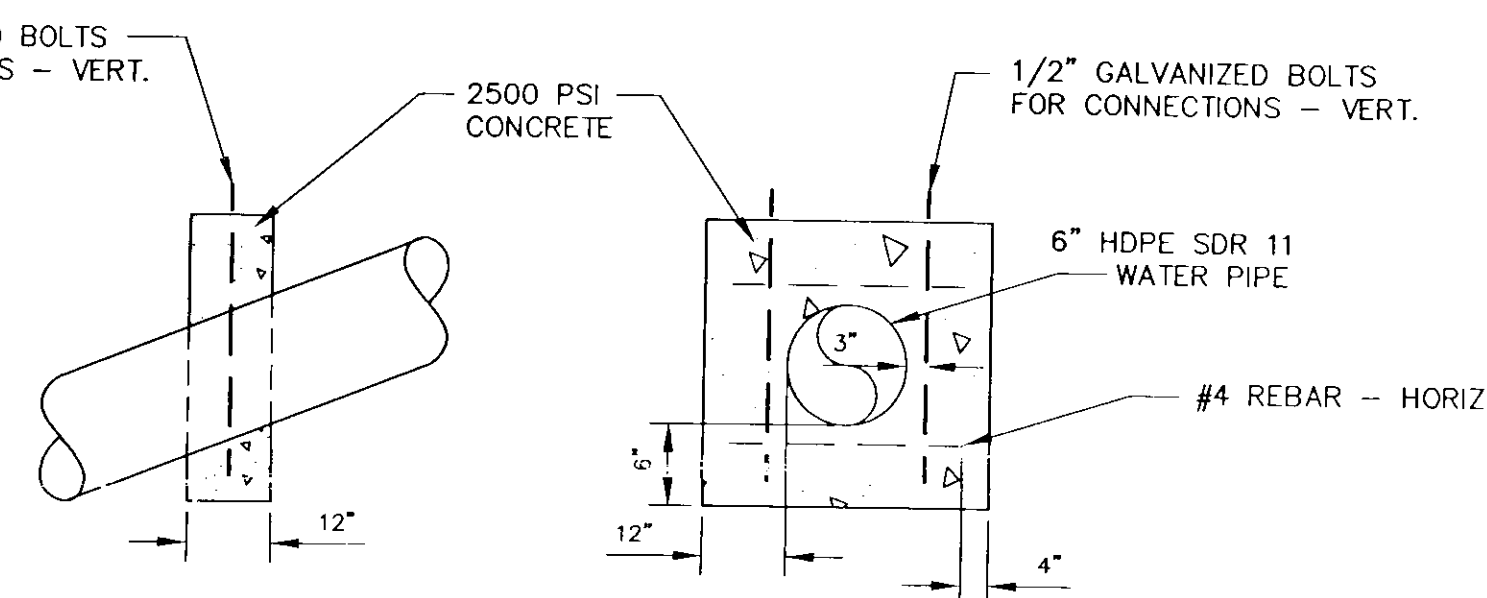
- 1 SUBMERSIBLE CENTRIFUGAL PUMP
- 2 HYDRAULICALLY SEALED DISCHARGE FLANGE
- 3 2" GALV. SPOOL, CONTRACTOR TO VERIFY LENGTH
- 4 I-BEAM GUIDE RAIL
- 5 STAINLESS STEEL LIFTING CHAIN
- 6 2" GALV. ELBOW
- 7 2 1/2" SDR 11 HDPE PIPE
- 8 2" CHECK VALVE, FL x FL
- 9 CORE DRILL & SEAL W/ LINK-SEAL OR EQUIVALENT
- 10 2" x 2-1/2" REDUCER



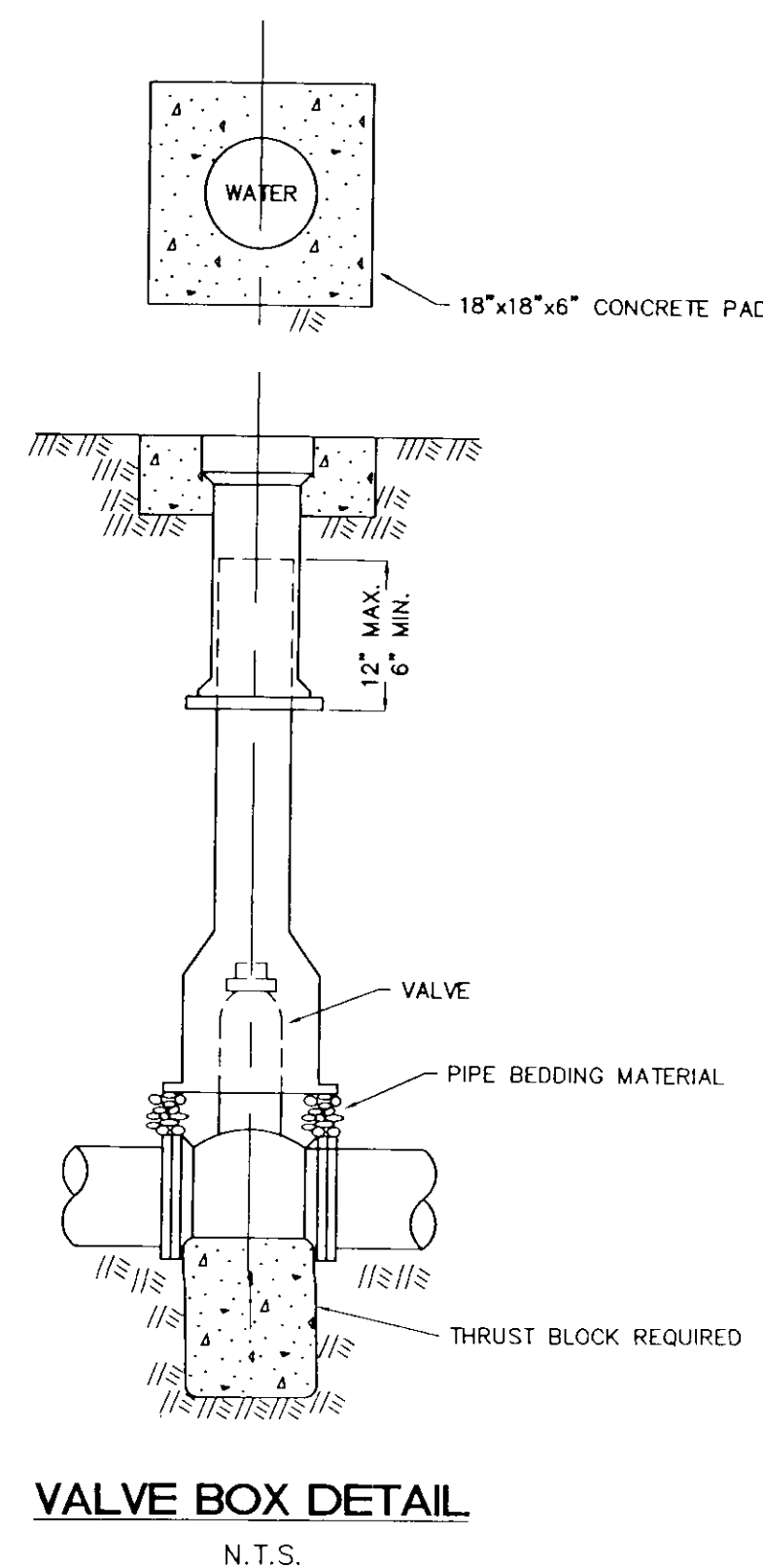
FITTING SIZES	TEES & PLUGS		90° BEND		45° BEND & WYES		REDUCERS & 22-1/2° BEND	
	A	B	A	B	A	B	A	B
4"	1'-7"	1'-2"	1'-9"	1'-6"	1'-8"	0'-10"	1'-7"	0'-6"
6"	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	0'-10"
8"	2'-8"	2'-6"	3'-2"	3'-0"	2'-5"	2'-1"	1'-9"	1'-6"

NOTE: This table is based on 150 psi Main Pressure
2000 psf Soil Bearing Pressure.
Wrap all fittings with polyethylene.

THRUST BLOCK DETAIL
N.T.S.



CONCRETE PIPE ANCHOR DETAIL
N.T.S.



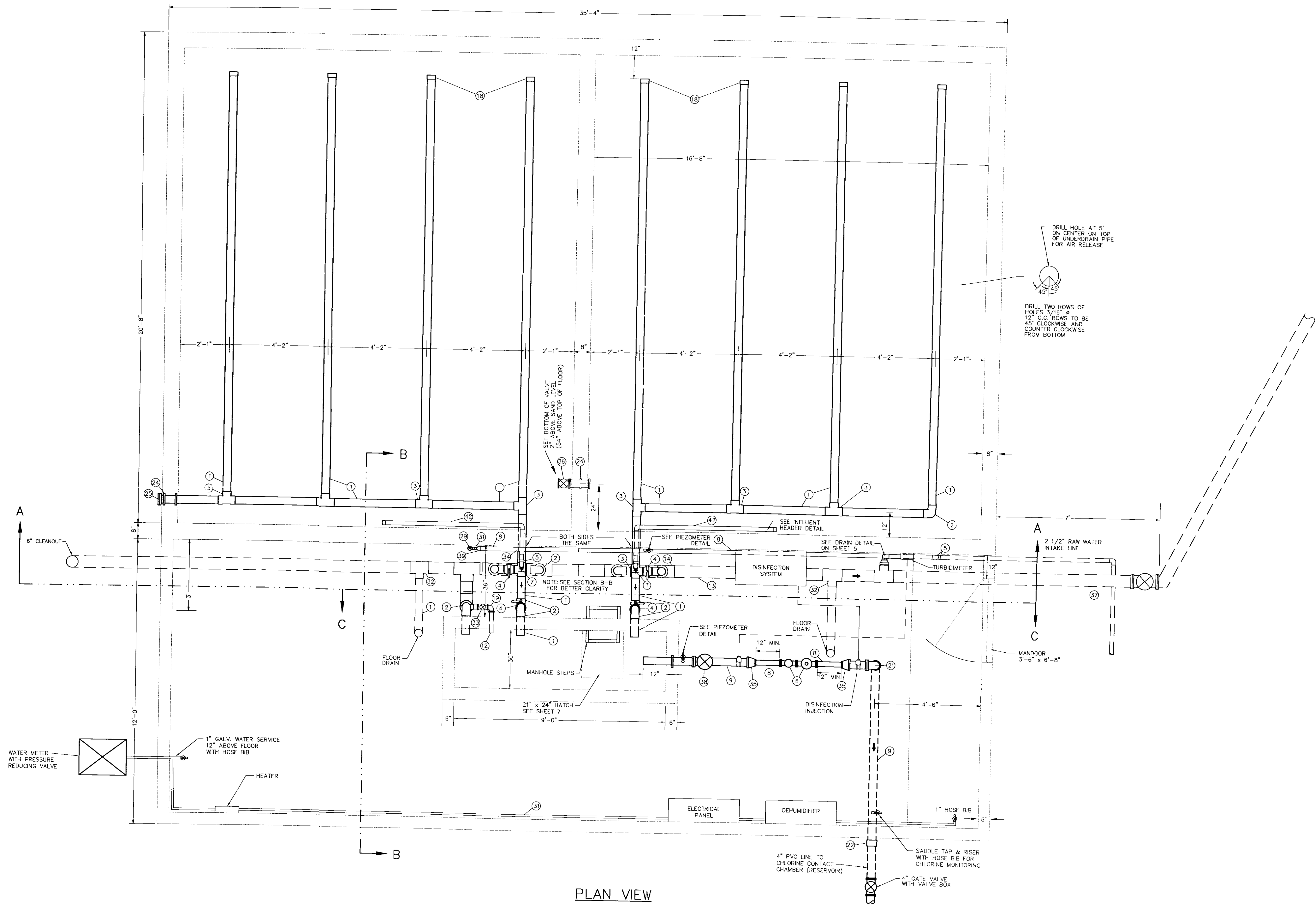
VALVE BOX DETAIL
N.T.S.

DATE	9-15-98
BY	BLC
REVISION	
NO.	1
DESIGN BY:	RMCT
DRAWN BY:	RYA
CHECKED BY:	RMCT
PLOT DATE:	9-15-98

RUEN-YEAGER & ASSOCIATES, INC.
CONSULTING ENGINEERS - LAND SURVEYORS
EAST 5685 SELTICE WAY, POST FALLS, IDAHO 83854 (208)667-2464
219 PINE ST., SANDPOINT, IDAHO 83864 (208)268-4629
103 NORTH JACKSON, MOSCOW, IDAHO 83843 (208)883-3755

RECORD DRAWING
KULLYSPELL ESTATES
INTAKE SYSTEM PUMP STATION
AND GENERAL DETAILS

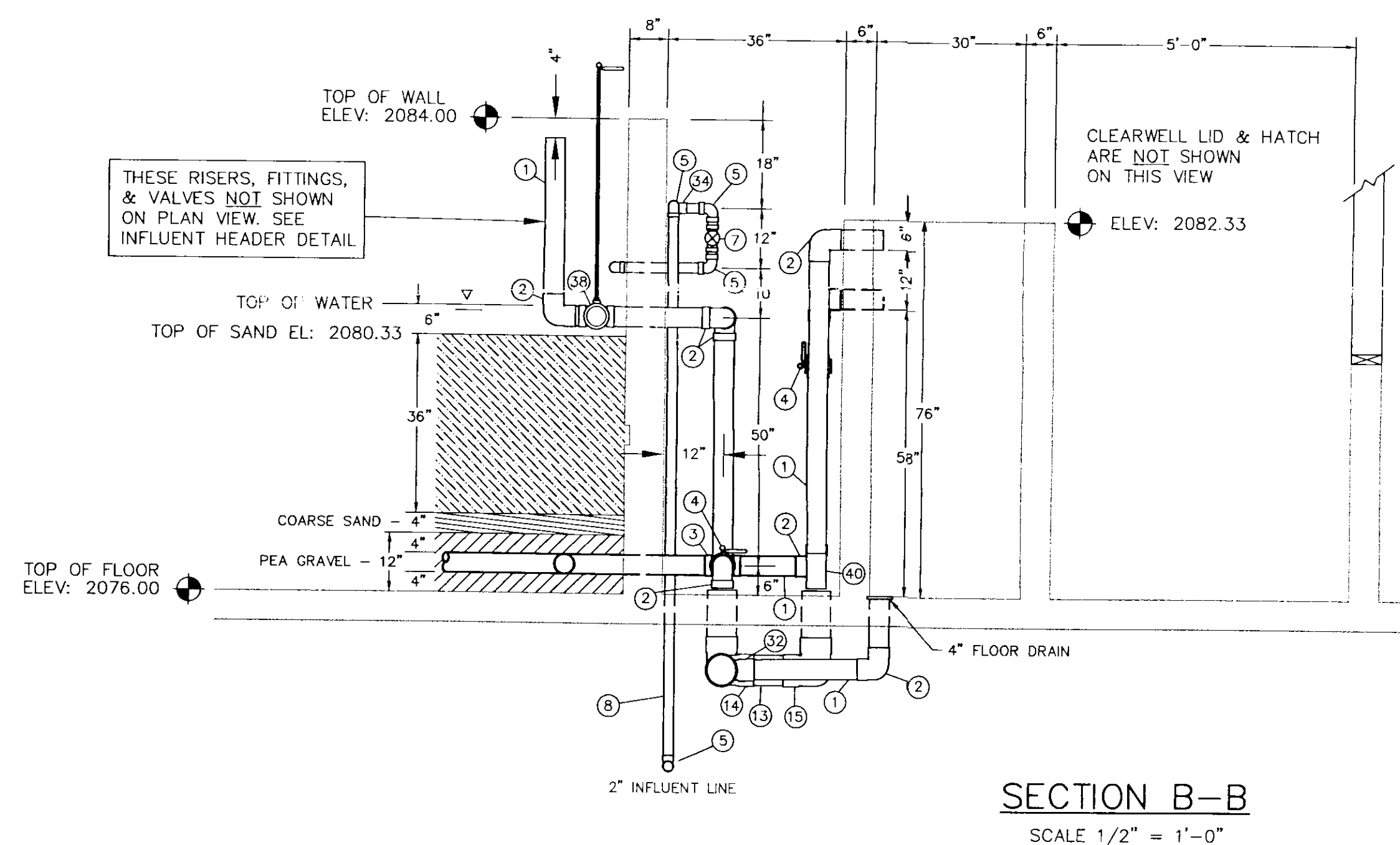
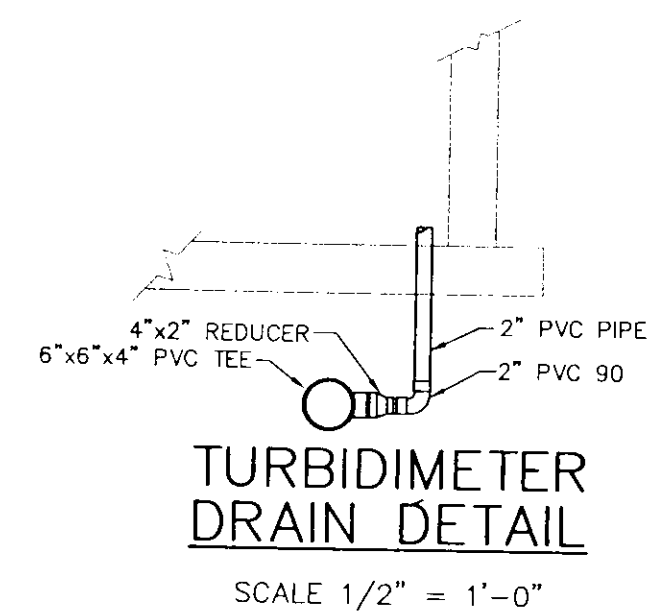
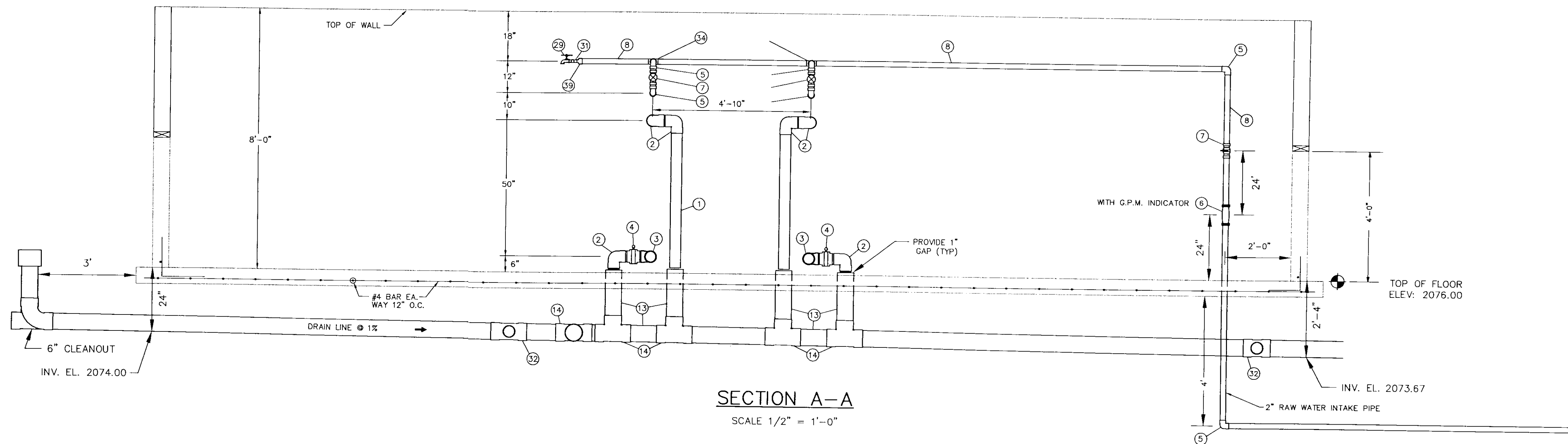
PROJECT:	S97343A
FILE NAME:	S97343PSRD
SHEET NUMBER:	3 OF 10



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

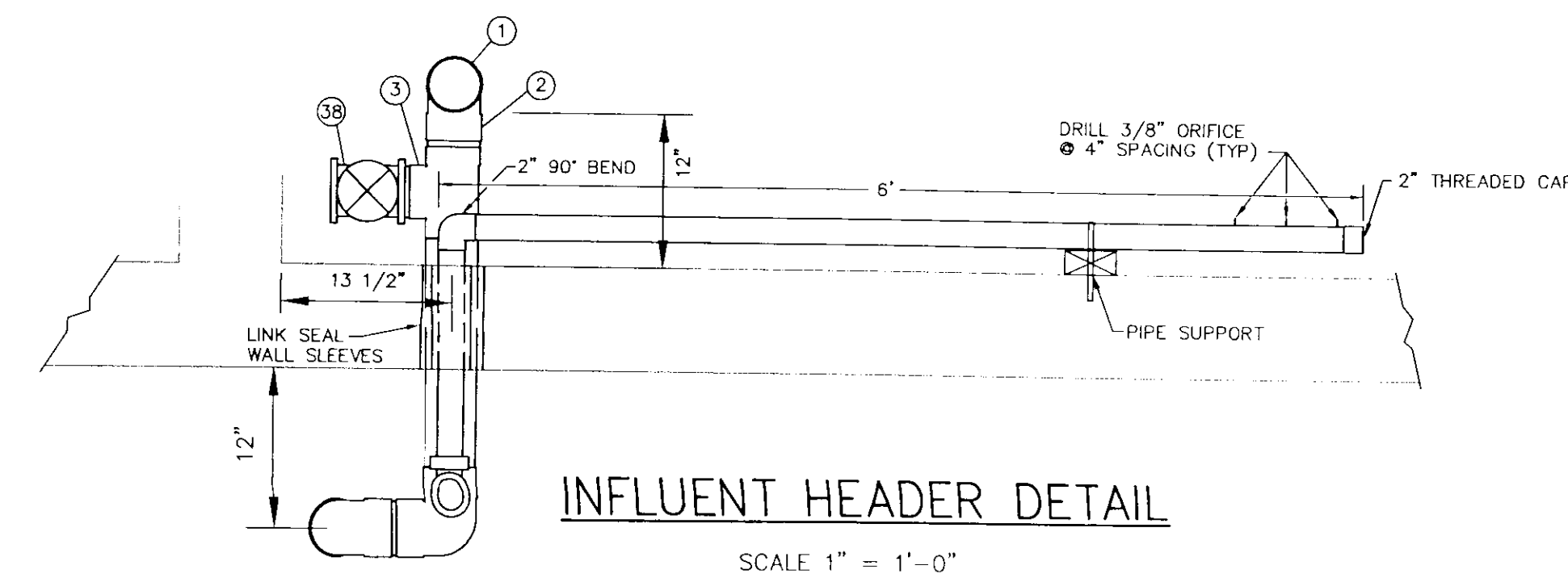
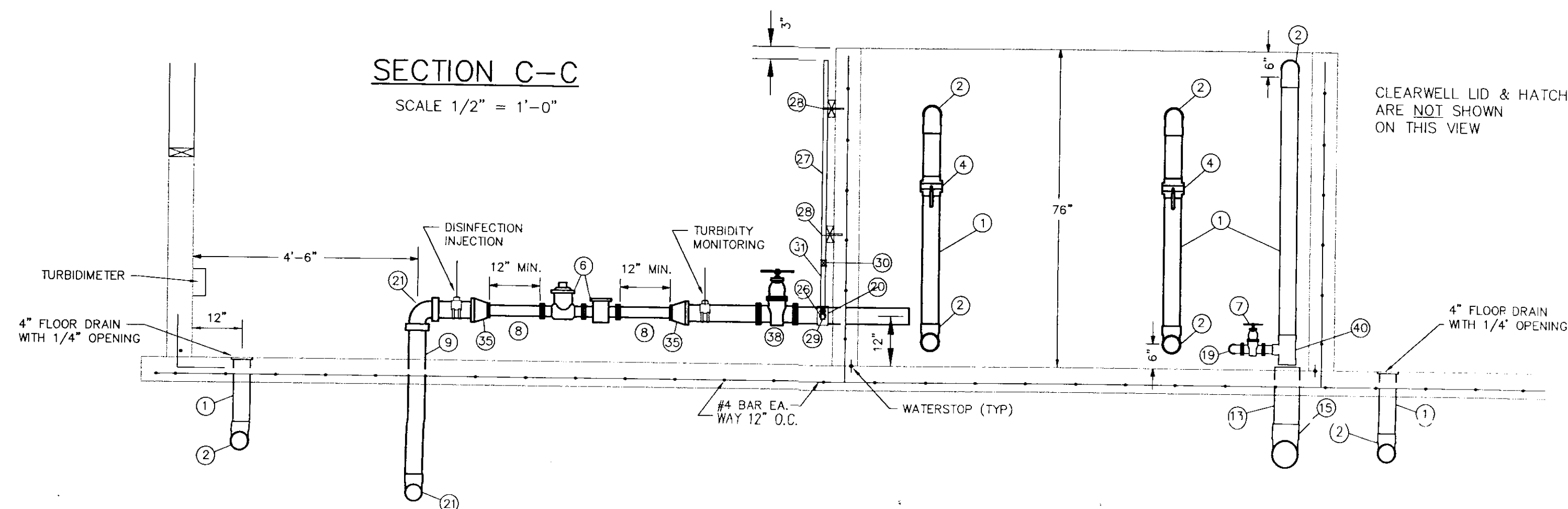
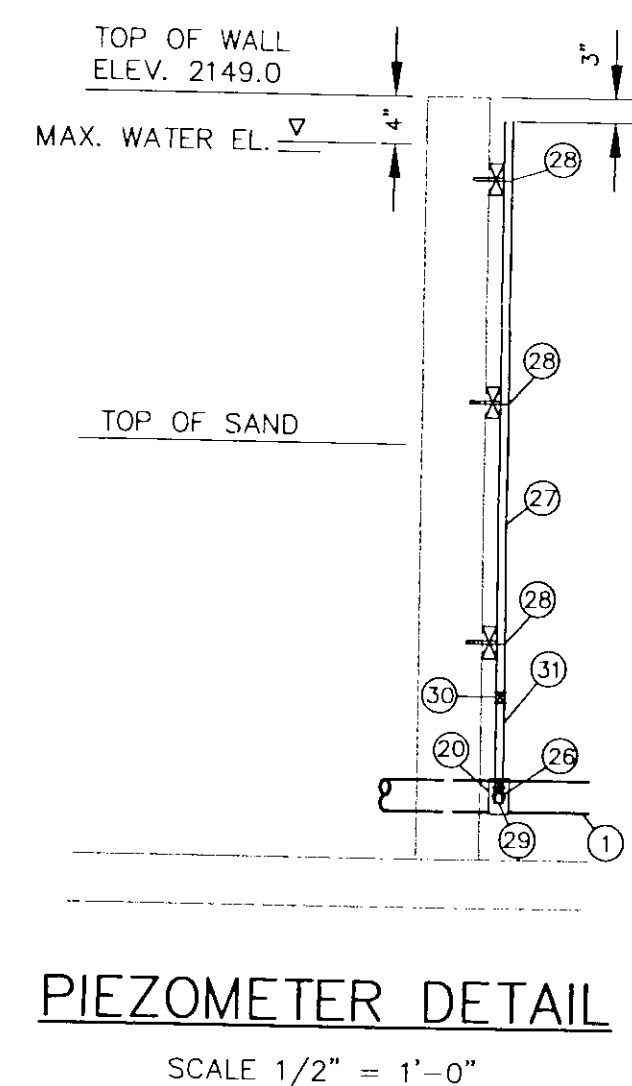
SEE MATERIALS LIST
ON SHEET 5

RECORD DRAWING KULLYSPELL ESTATES SLOW SAND FILTER PIPING PLAN		PROJECT: S97343A	
FILE NAME: S97343SF-rd		SHEET NUMBER: 4 OF 10	
RUEB - YEAGER & ASSOCIATES, INC. CONSULTING ENGINEERS - LAND SURVEYORS EAST 5685 SELTICE WAY, POST FALLS, IDAHO 83854 (208)667-2464 219 PINE ST., SANDPOINT, IDAHO 83864 (208)265-4629 103 NORTH JACKSON, MOSCOW, IDAHO 83843 (208)883-3755		DESIGN BY: RMC-T DRAWN BY: GCH CHECKED BY: RMC-T PLOT DATE: 9-14-98	
NO. 1		REVISION	
BY: BLC		DATE: 9-14-98	



LIST OF MATERIALS

- | | | | |
|----|---|----|--|
| 1 | 4" SCH 40 PVC PIPE | 22 | 4" PVC x 4" GALV. STL. COUPLING ADAPTER NOT USED |
| 2 | 4" PVC 90° BEND | 23 | |
| 3 | 4" PVC TEE | 24 | 4" PVC WALL SLEEVE |
| 4 | 4" FLG x FLG BUTTERFLY VALVE | 25 | 4" BLIND FLANGE |
| 5 | 2" GALV. STEEL 90° BEND | 26 | 1" GALV. STEEL TEE |
| 6 | 2" BADGER RECORDALL TURBO METER WITH PLATE STRAINER | 27 | 1" SIGHT TUBE ATTACHED TO WALL |
| 7 | 2" BALL VALVE | 28 | PIPE SUPPORT HANGERS WITH 2x4 BLOCKING |
| 8 | 2" GALV. STEEL PIPE | 29 | 1" HOSE BIB |
| 9 | 4" GALV. STEEL PIPE | 30 | 1" GATE VALVE |
| 10 | 3/4" TAPPING SADDLE WITH HOSE BIB | 31 | 1" GALV. STEEL PIPE |
| 11 | NOT USED | 32 | 6"x 6"x 4" PVC TEE |
| 12 | 2" SCH 40 PVC PIPE | 33 | NOT USED |
| 13 | 6" SCH 40 PVC PIPE | 34 | 2"x2"x2" GALV. TEE |
| 14 | 6"x 6"x 6" PVC TEE | 35 | 4" x 2" GALV. REDUCER |
| 15 | 6" 90° BEND (PVC) | 36 | 6" GATE VALVE WITH KEY EXTENSION WITH LATERAL SUPPORTS |
| 16 | 6" x 4" PVC REDUCER | 37 | 6" GATE VALVE |
| 17 | 4" FLOOR DRAIN | 38 | 4" ELECTRIC GATE VALVE |
| 18 | 4" PVC CAP | 39 | 2" x 1" GALV. REDUCER |
| 19 | 2" 90° BEND (PVC) | 40 | 4"x4"x2" PVC TEE |
| 20 | 1" TAPPING SADDLE | | |
| 21 | 4" GALV. STEEL 90° BEND | | |



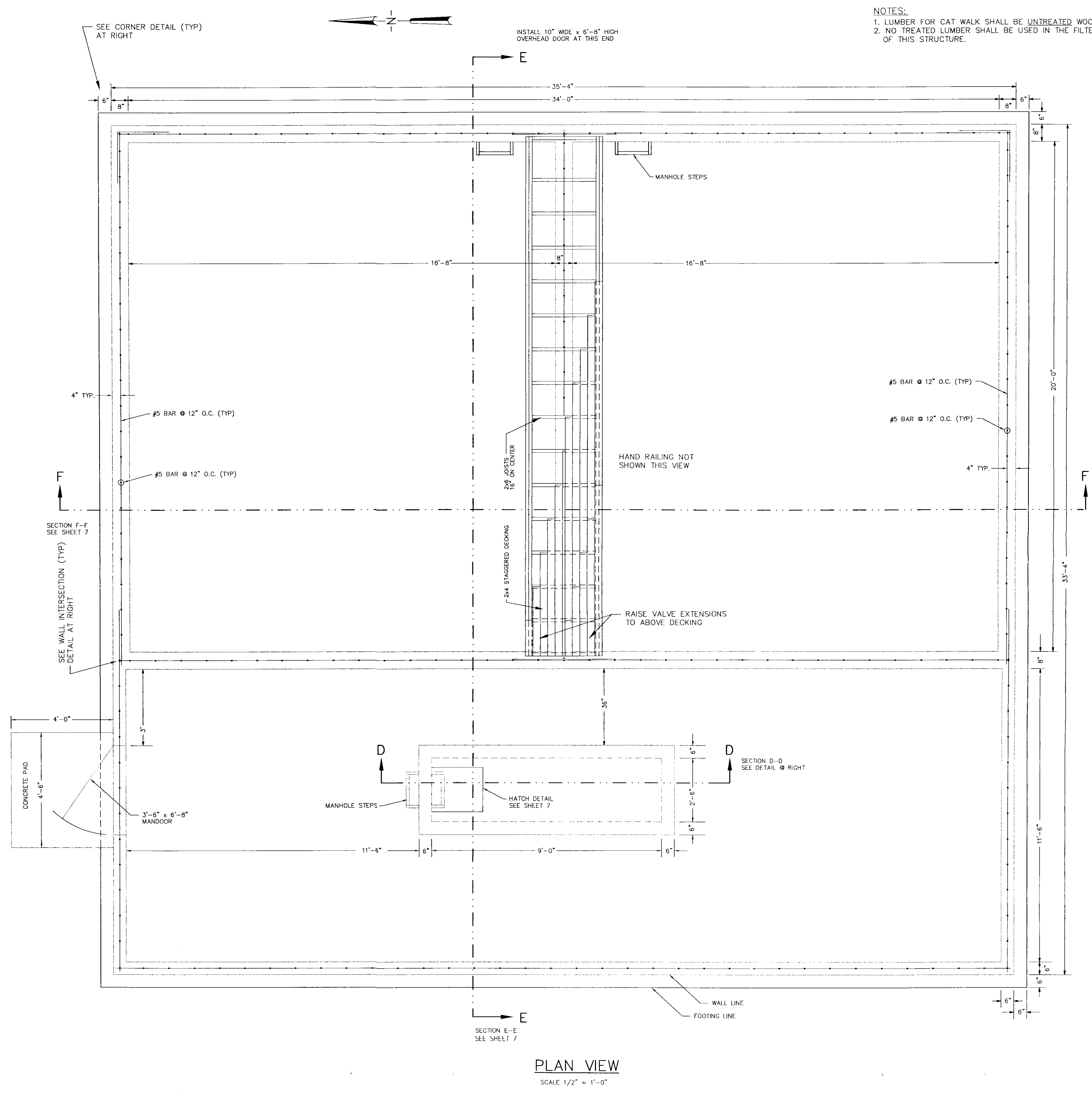
RECORD DRAWING
KULLYSPELL ESTATES
SLOW SAND FILTER
PIPING PLAN

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103 NORTH JACKSON, MOSCOW, IDAHO 83843 (208)883-3755

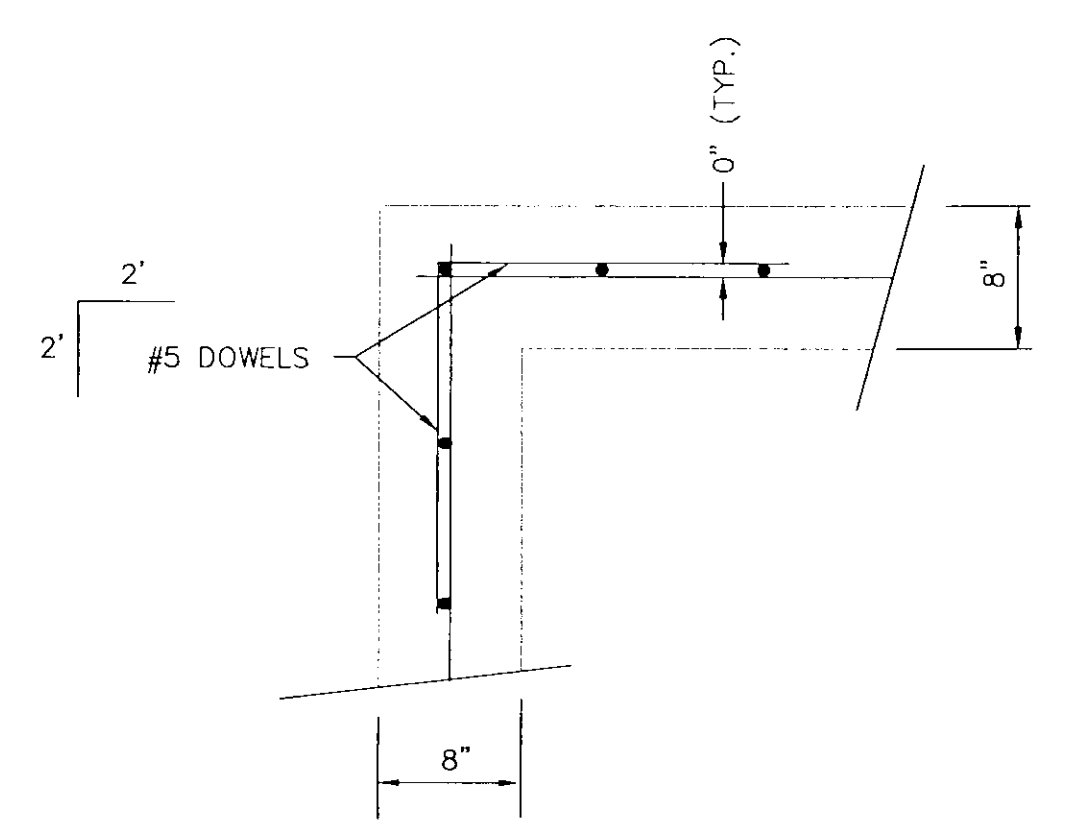
PROJECT: S97343A
FILE NAME: S97343SF-rd
SHEET NUMBER: 5 OF 10

DESIGN BY: RMC
DRAWN BY: GCH
CHECKED BY: RMC
PLOT DATE: 9-14-98

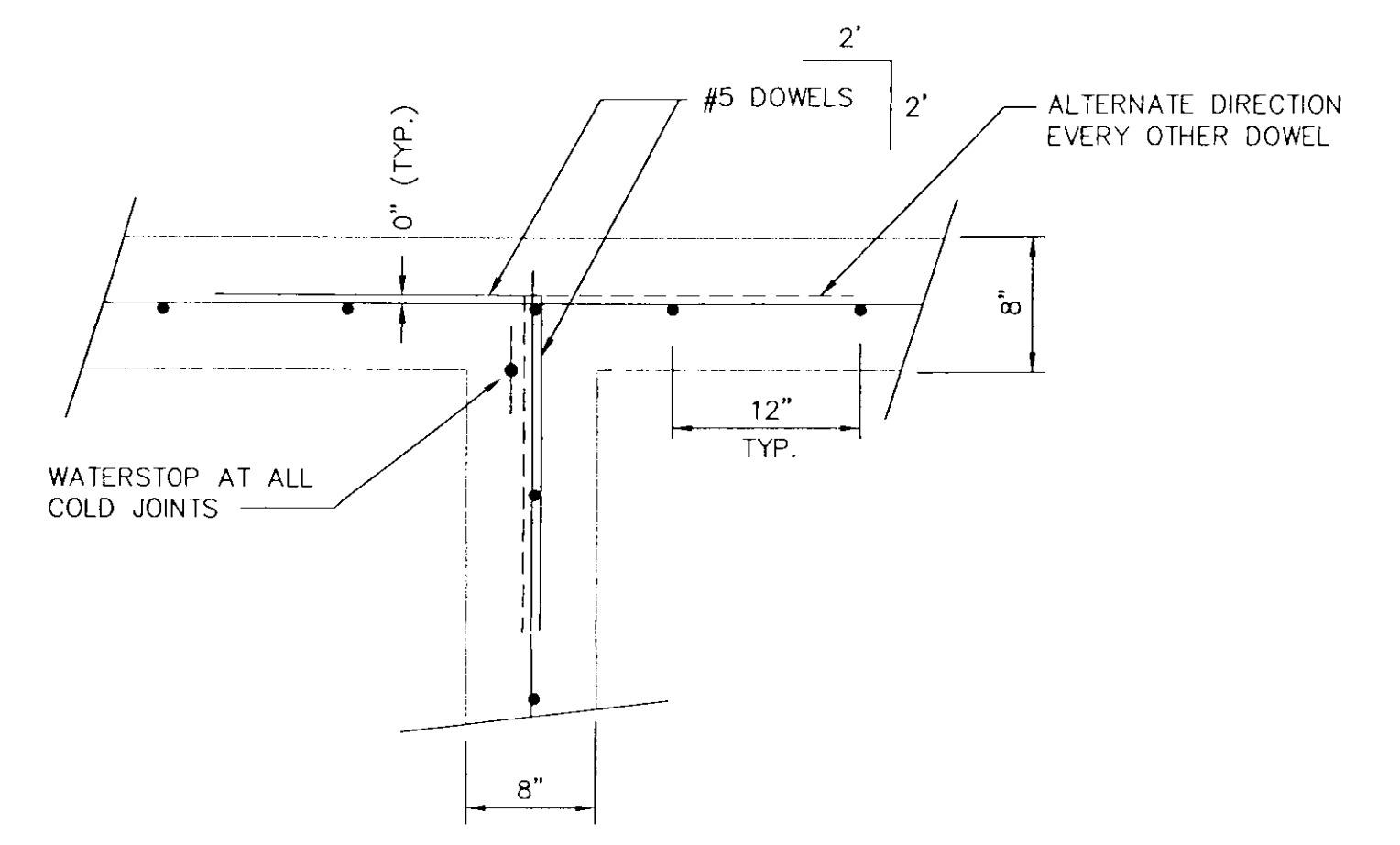
NO. 1
REVISION
DATE 9-14-98
BY BLC
RECORD DRAWING



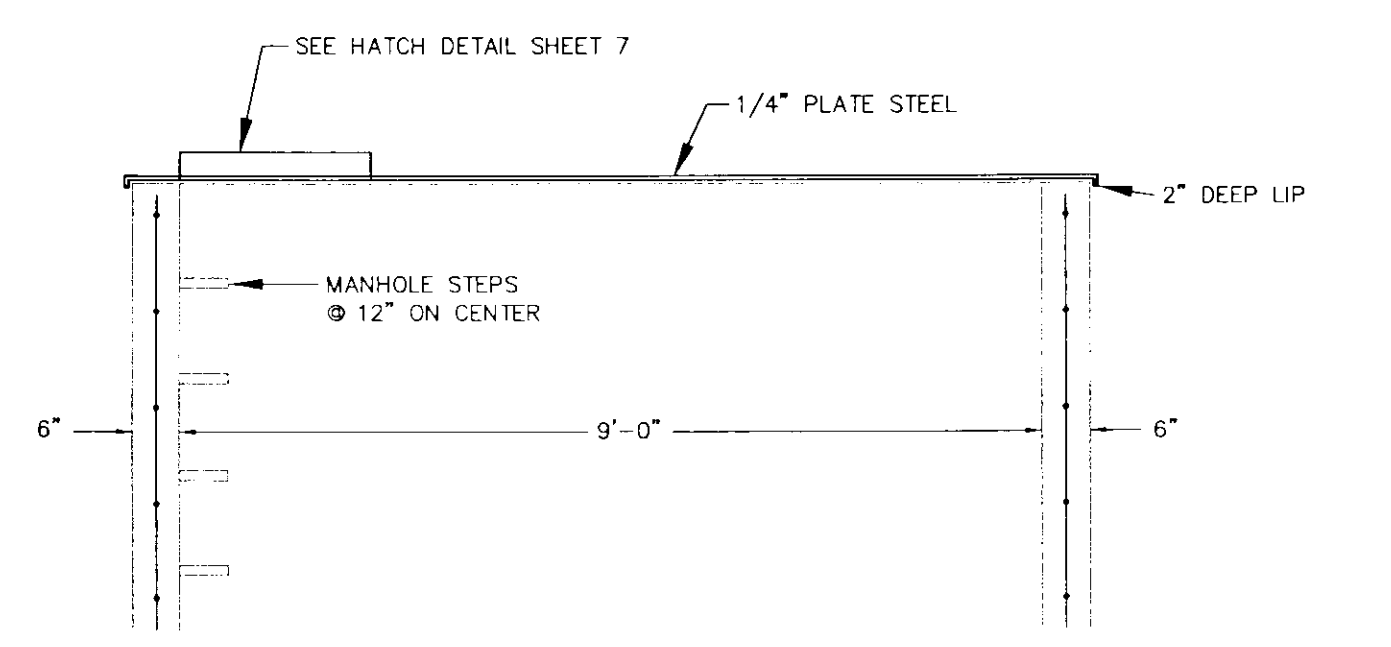
PLAN VIEW
SCALE 1/2" = 1'-0"



**CORNER REINFORCEMENT DETAIL
PLAN VIEW**
N.T.S.



**WALL INTERSECTION
REINFORCEMENT DETAIL
PLAN VIEW**
N.T.S.



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

NOTES:
1. LUMBER FOR CAT WALK SHALL BE UNTREATED WOOD.
2. NO TREATED LUMBER SHALL BE USED IN THE FILTER AREA OF THIS STRUCTURE.

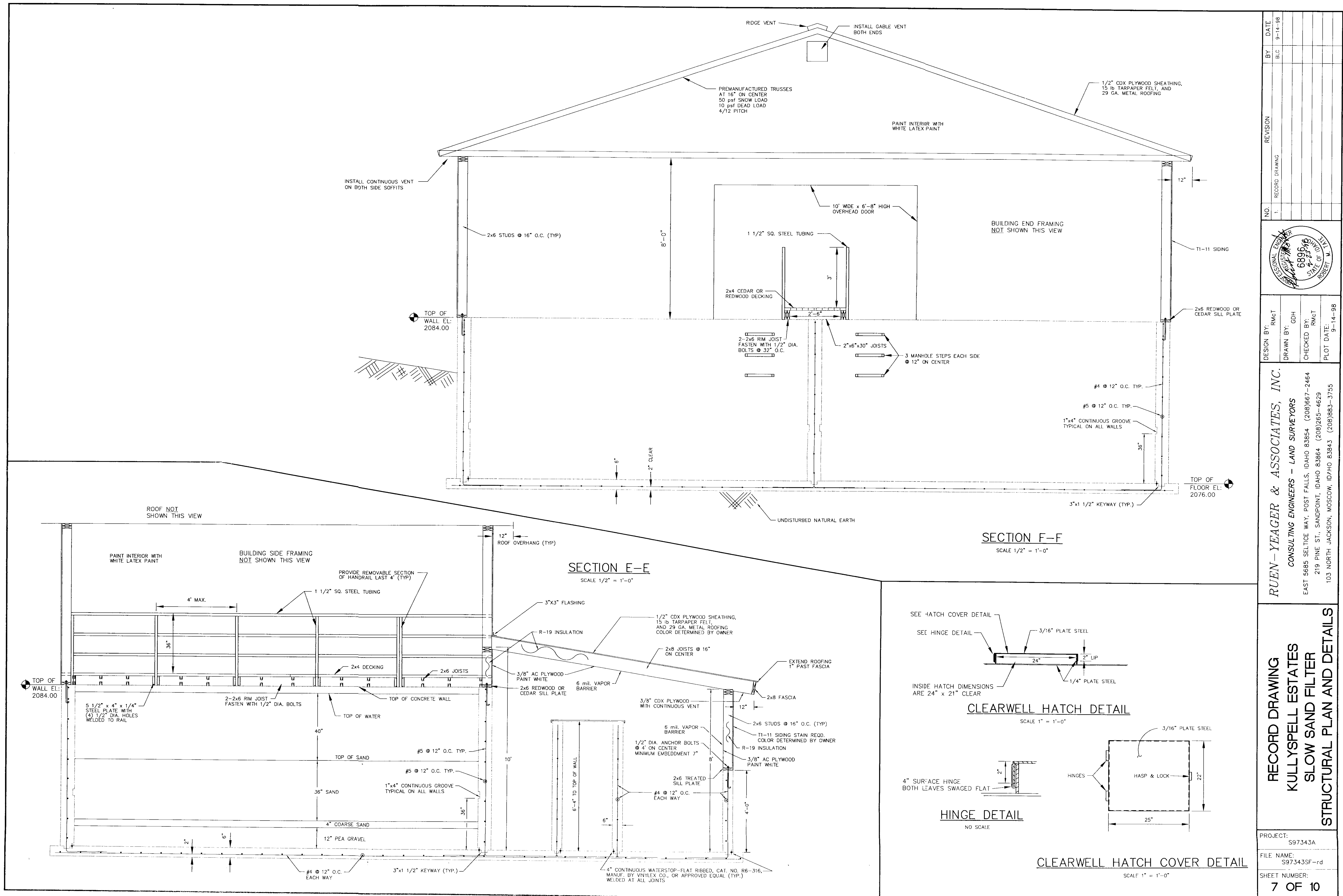
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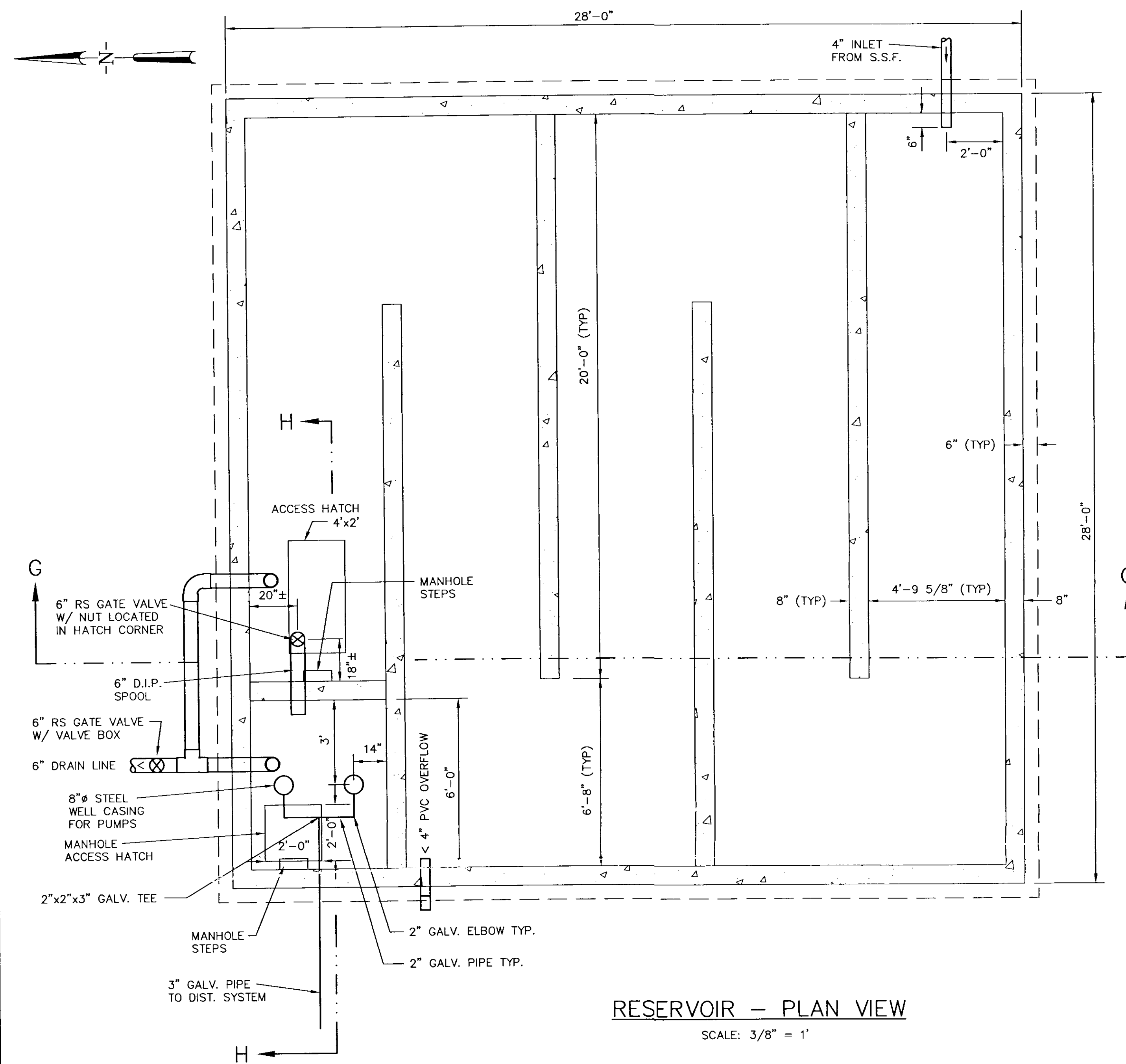
DESIGN BY:	RMCT
DRAWN BY:	GDH
CHECKED BY:	RMCT
PLOT DATE:	9-14-98

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103 NORTH JACKSON, MOSCOW, IDAHO 83843 (208)883-3755

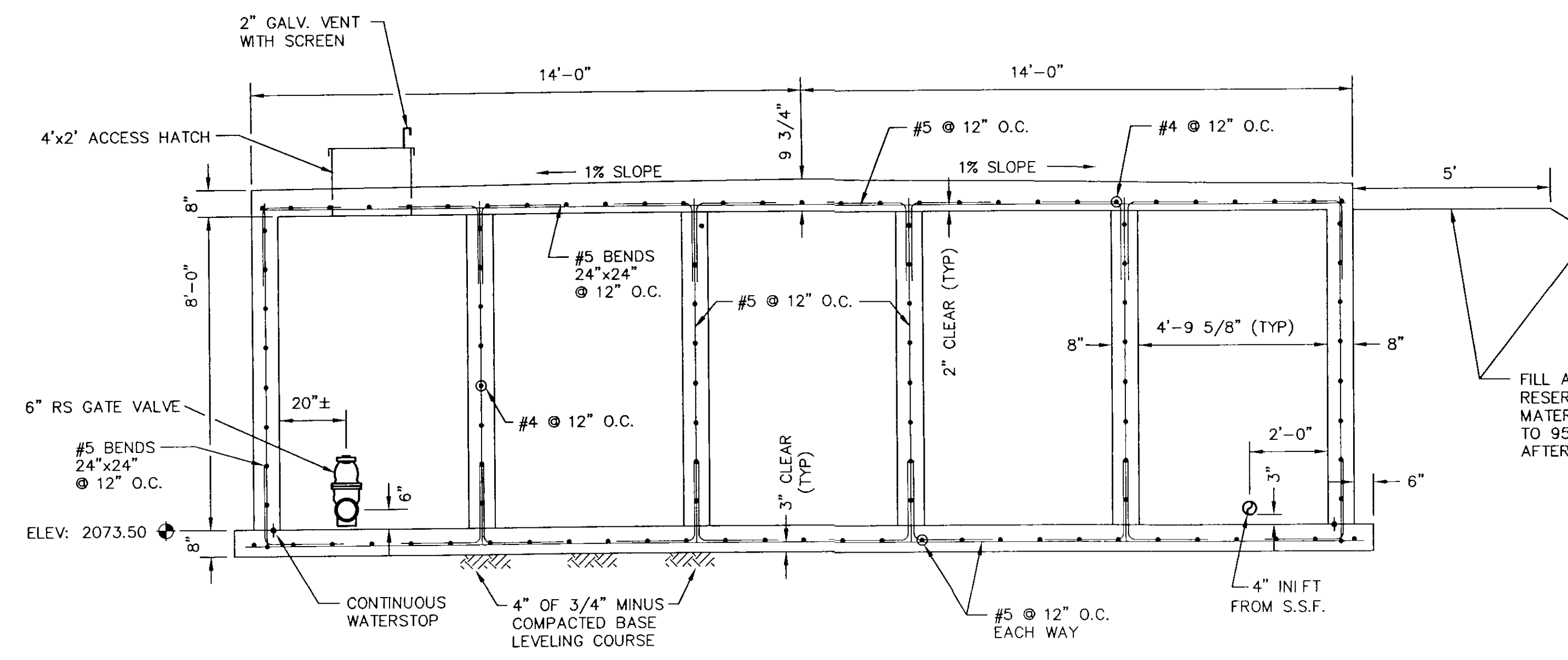
**RECORD DRAWING
KULLYSPELL ESTATES
SLOW SAND FILTER
STRUCTURAL PLAN AND DETAILS**

PROJECT:	S97343A
FILE NAME:	S97343SF-rd
SHEET NUMBER:	6 OF 10

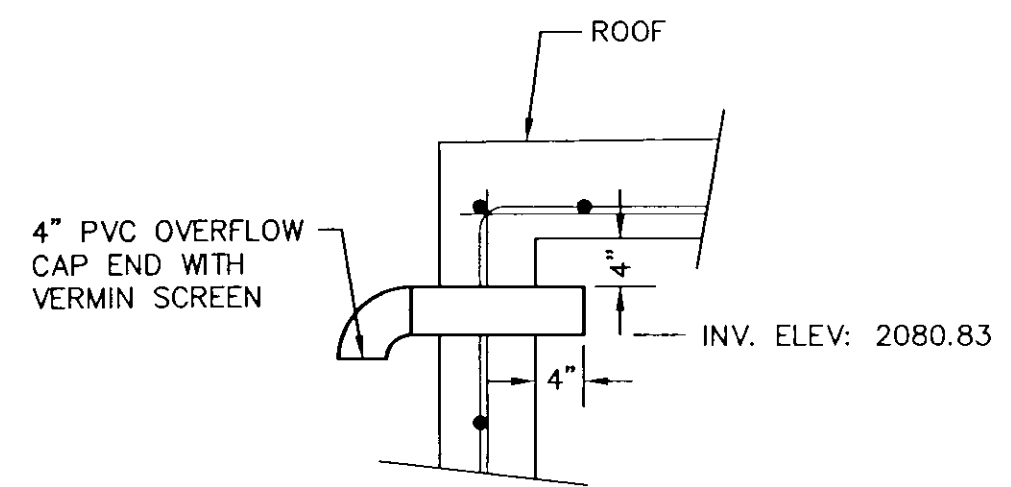




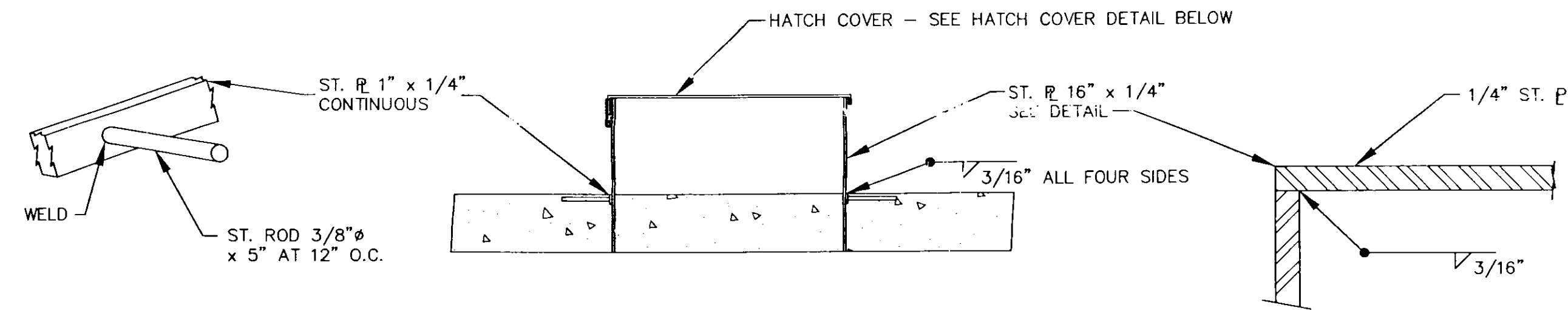
RESERVOIR - PLAN VIEW
SCALE: 3/8" = 1'



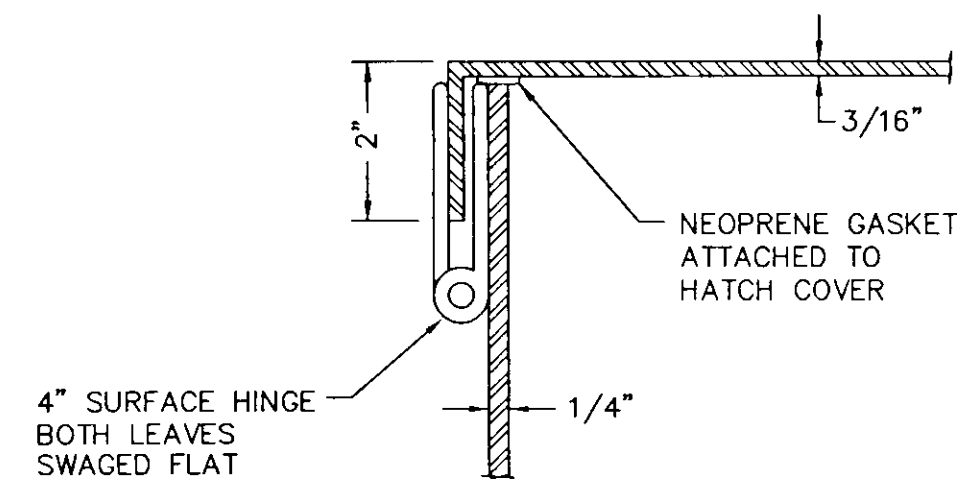
SECTION G-G
SCALE: 3/8" = 1'



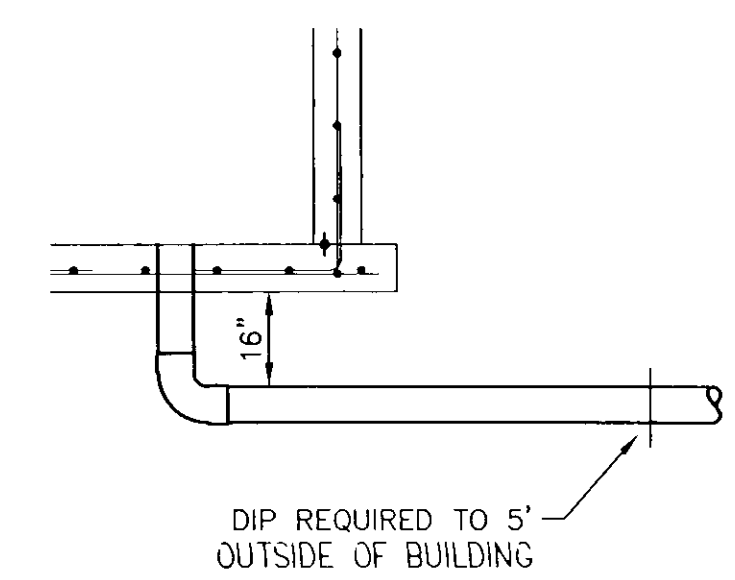
OVERFLOW DETAIL
NO SCALE



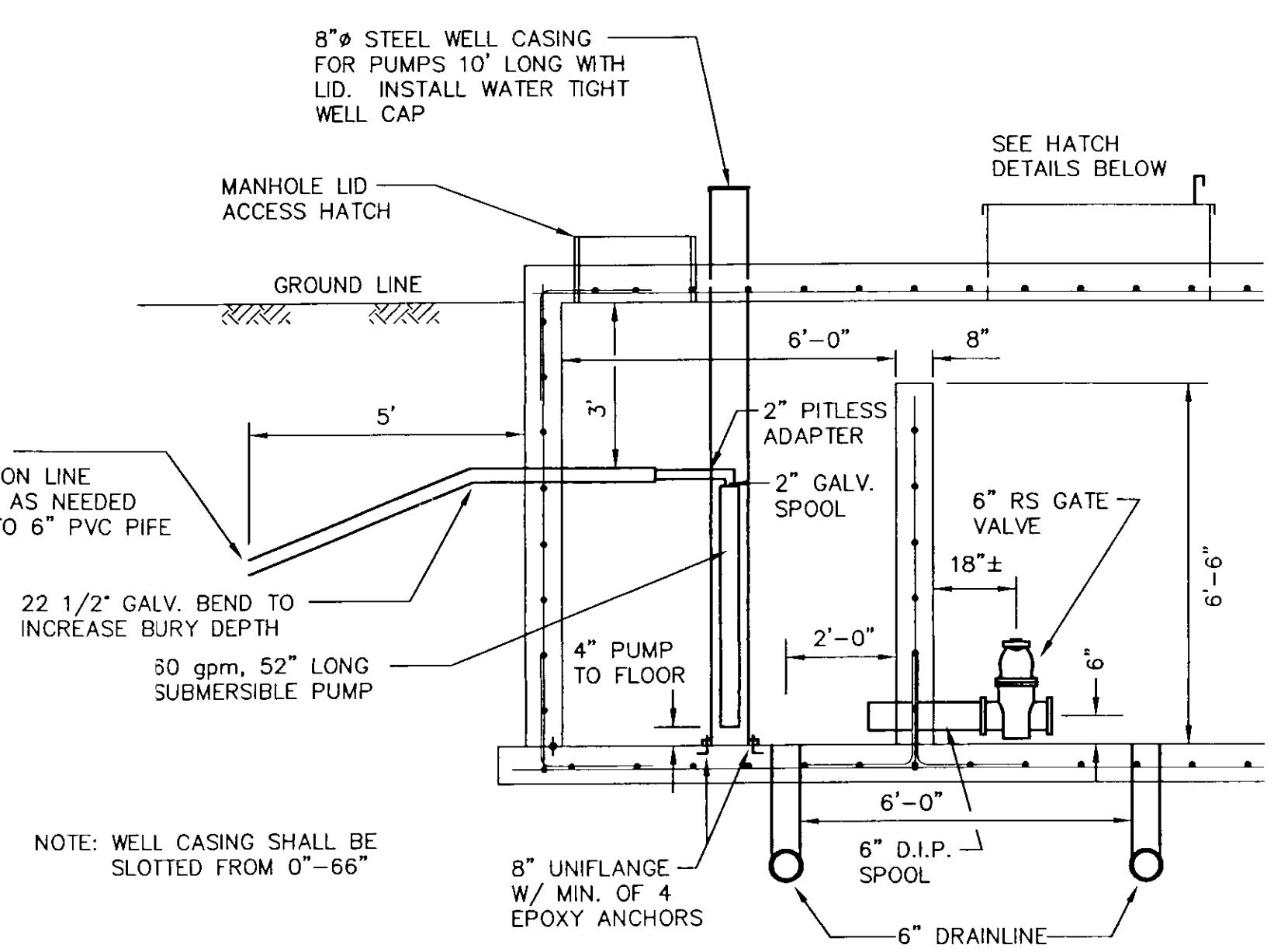
HATCH DETAIL
1" = 1'-0"



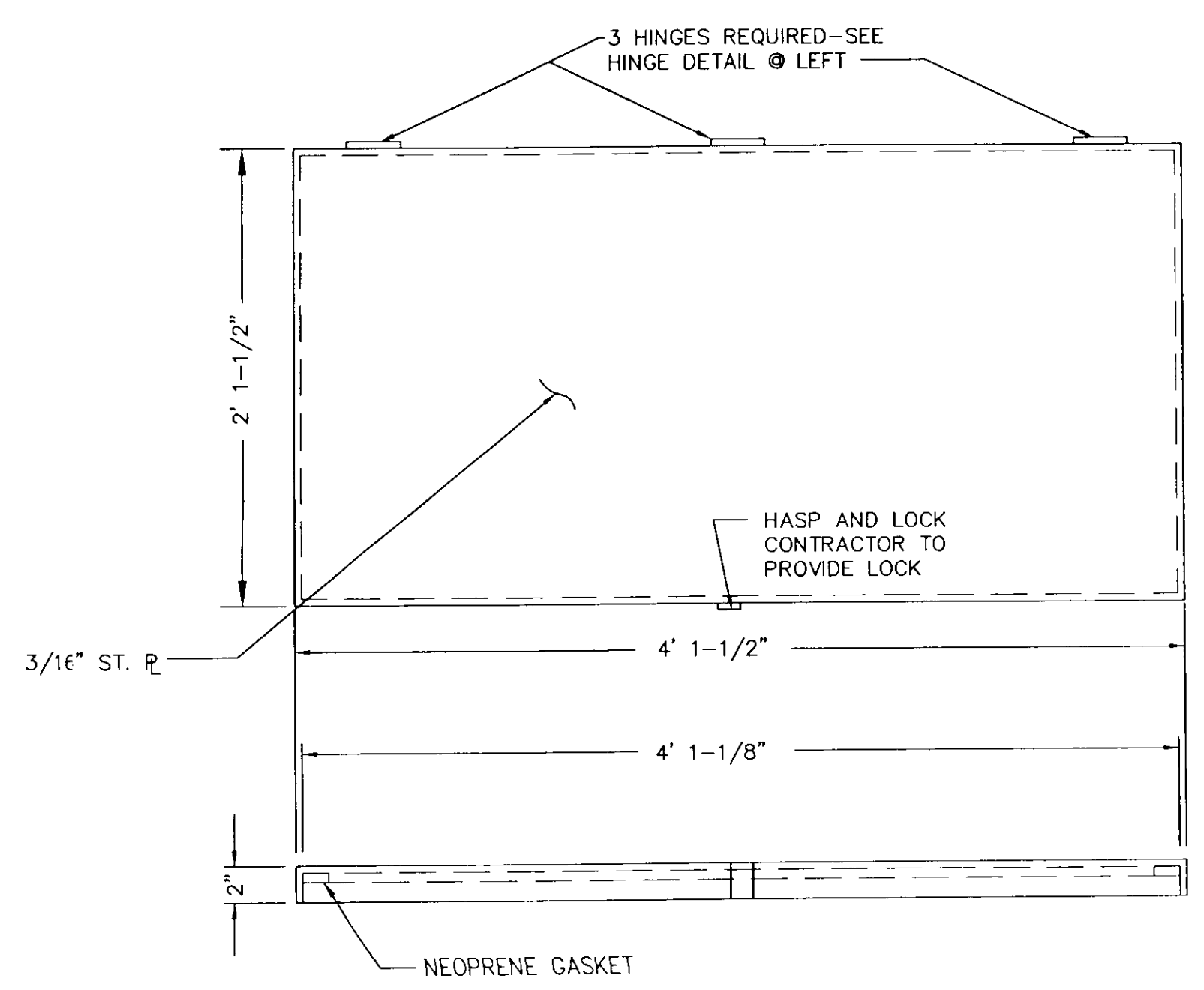
HINGE DETAIL
NO SCALE



DRAIN DETAIL
NO SCALE



SECTION H-H
SCALE: 3/8" = 1'



HATCH COVER DETAIL
1 1/2" = 1'-0"

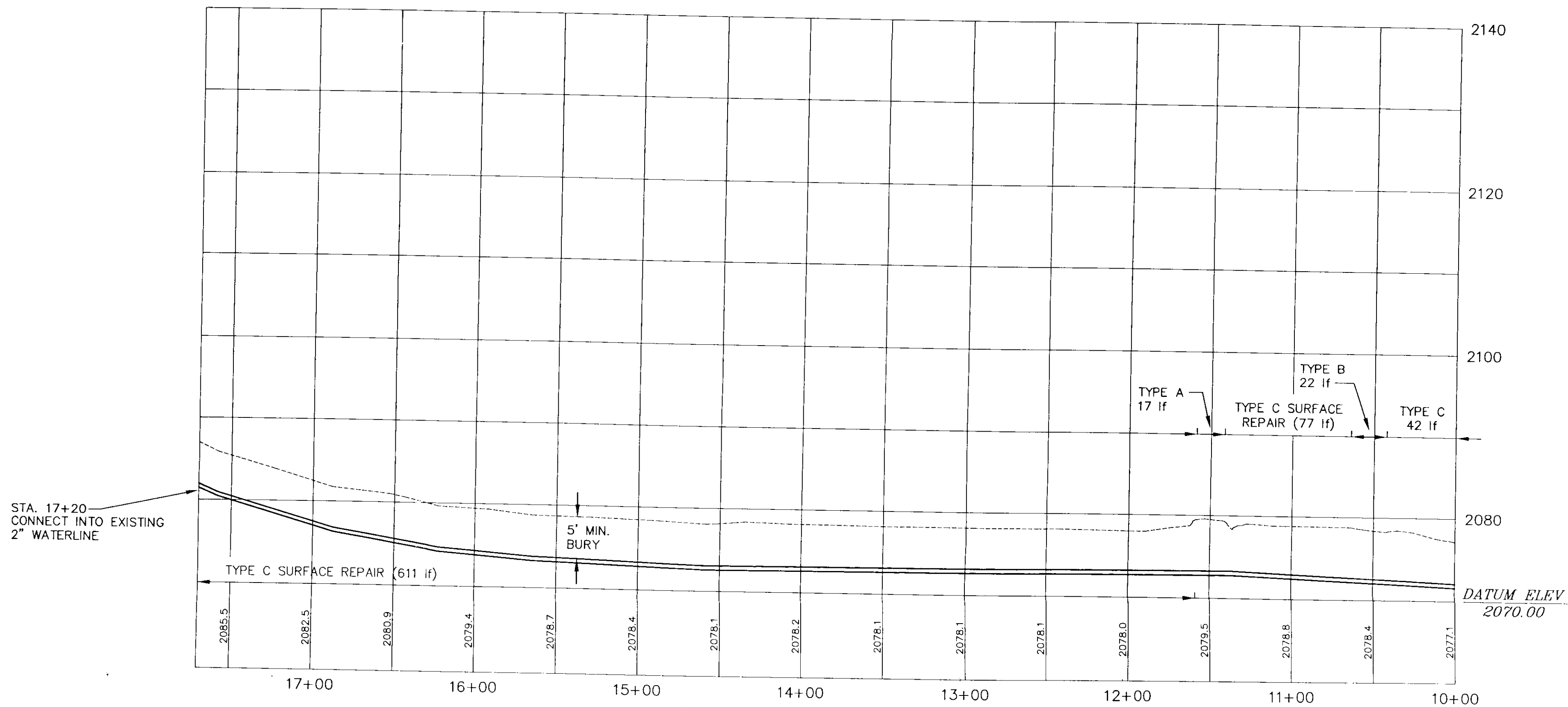
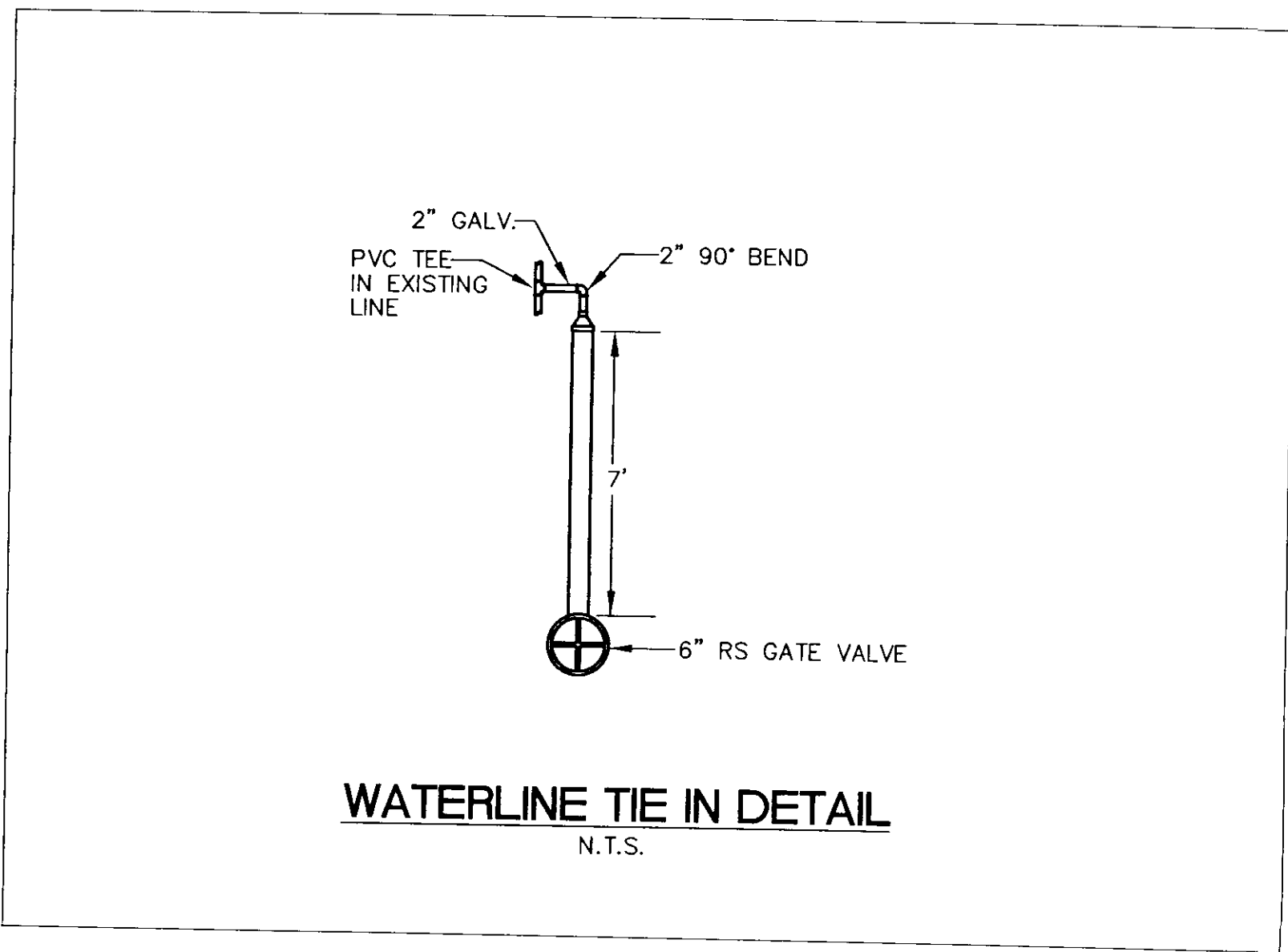
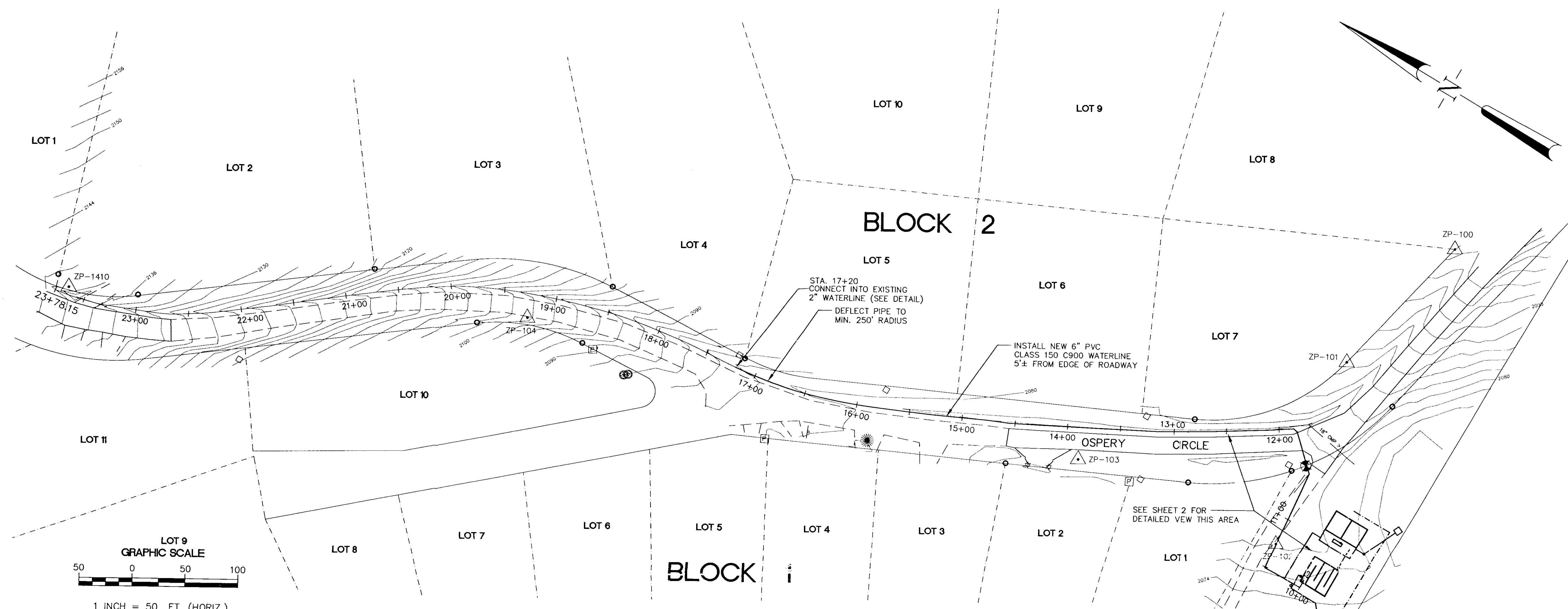
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BY	BLC				

DESIGN BY:	RcMT	DRAWN BY:	GDH	CHECKED BY:	RcMT	PLOT DATE:	9-15-98
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RUEY-YEAGER & ASSOCIATES, INC.
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219 PINE ST., SANDPOINT, IDAHO 83864 (208)265-4629
103 NORTH JACKSON, MOSCOW, IDAHO 83843 (208)883-3755

RECORD DRAWING
KULLYSPELL ESTATES
STRUCTURAL PLANS FOR
CHLORINE CONTACT CHAMBER

PROJECT:	S97343A
FILE NAME:	S97343AR
SHEET NUMBER:	8 OF 10



NO.	1	RECORD DRAWING	REVISION	BY	DATE
				BLC	9-15-98

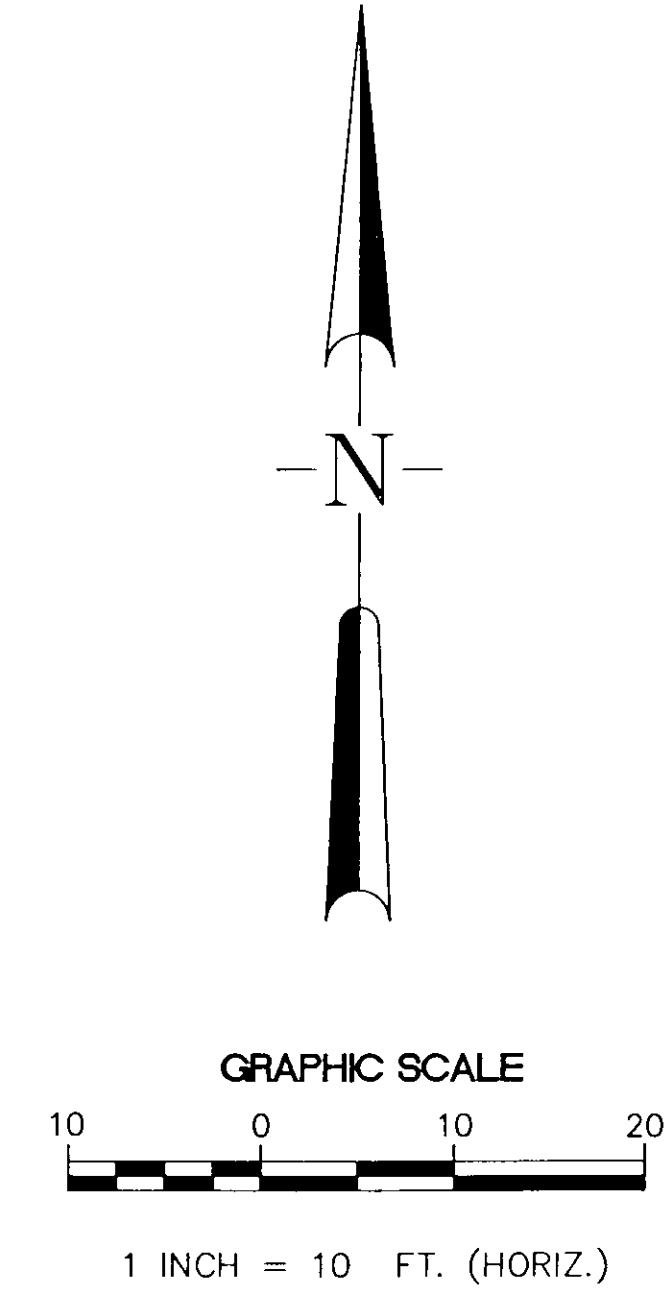
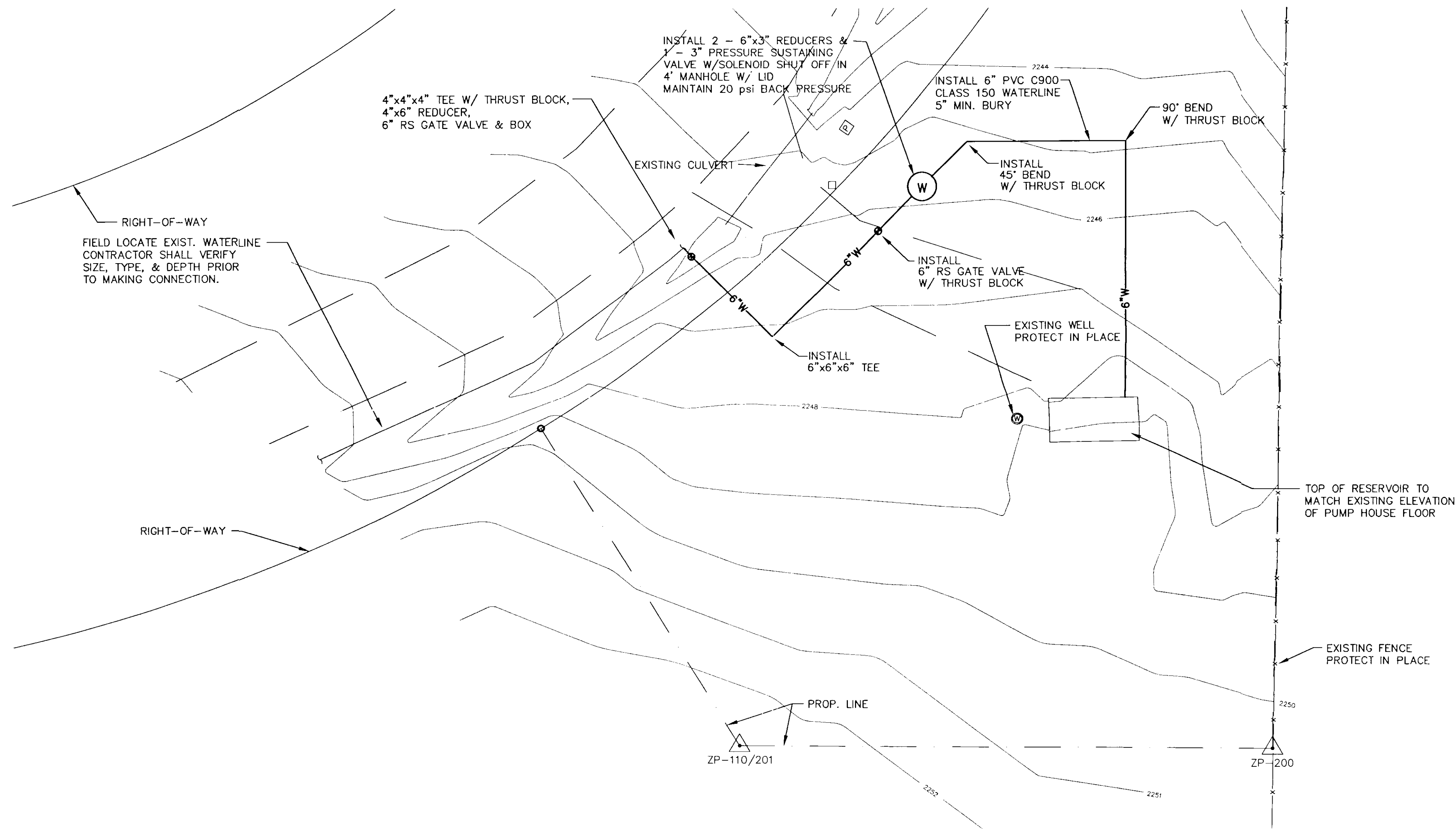
6896
09-23-98
ROBERT M. YEAGER
STATE OF IDAHO

DESIGN BY:	GOH, RMCt	CHECKED BY:	GOH, RMCt
DRAWN BY:	GOH	PLOT DATE:	9-15-98

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CONSULTING ENGINEERS - LAND SURVEYORS
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219 PINE ST., SANDPOINT, IDAHO 83864 (208)265-4629
103 NORTH JACKSON, MOSCOW, IDAHO 83843 (208)883-3755

**RECORD DRAWING
KULLYSPELL ESTATES
WATER SYSTEM IMPROVEMENTS
PLAN AND PROFILE**

PROJECT:	S97343A
FILE NAME:	S97343A2
SHEET NUMBER:	9 OF 10



PROJECT:		S97343A
FILE NAME:		S97343A2
SHEET NUMBER:		10 OF 10
RECORD DRAWING KULLYSPELL ESTATES WATER SYSTEM IMPROVEMENTS UPPER RESERVOIR PLANS		
RUEN-YEAGER & ASSOCIATES, INC. CONSULTING ENGINEERS - LAND SURVEYORS EAST 5685 SELTICE WAY, POST FALLS, IDAHO 83854 (208)667-2464 219 PINE ST., SANDPOINT, IDAHO 83864 (208)265-4629 103 NORTH JACKSON, MOSCOW, IDAHO 83843 (208)863-3755		
DESIGN BY:	Rmct	
DRAWN BY:	GDH	
CHECKED BY:	Rmct	
PLOT DATE:	9-15-98	
NO.	1	RECORD DRAWING
REVISION		
BY	BLC	9-15-98
DATE		