

VILLAGE DISTRICT OF EIDELWEISS - CONTRACT 2 PWS 1461010 - REINACH 120,000 GALLON TANK AND WATER SYSTEM IMPROVEMENTS

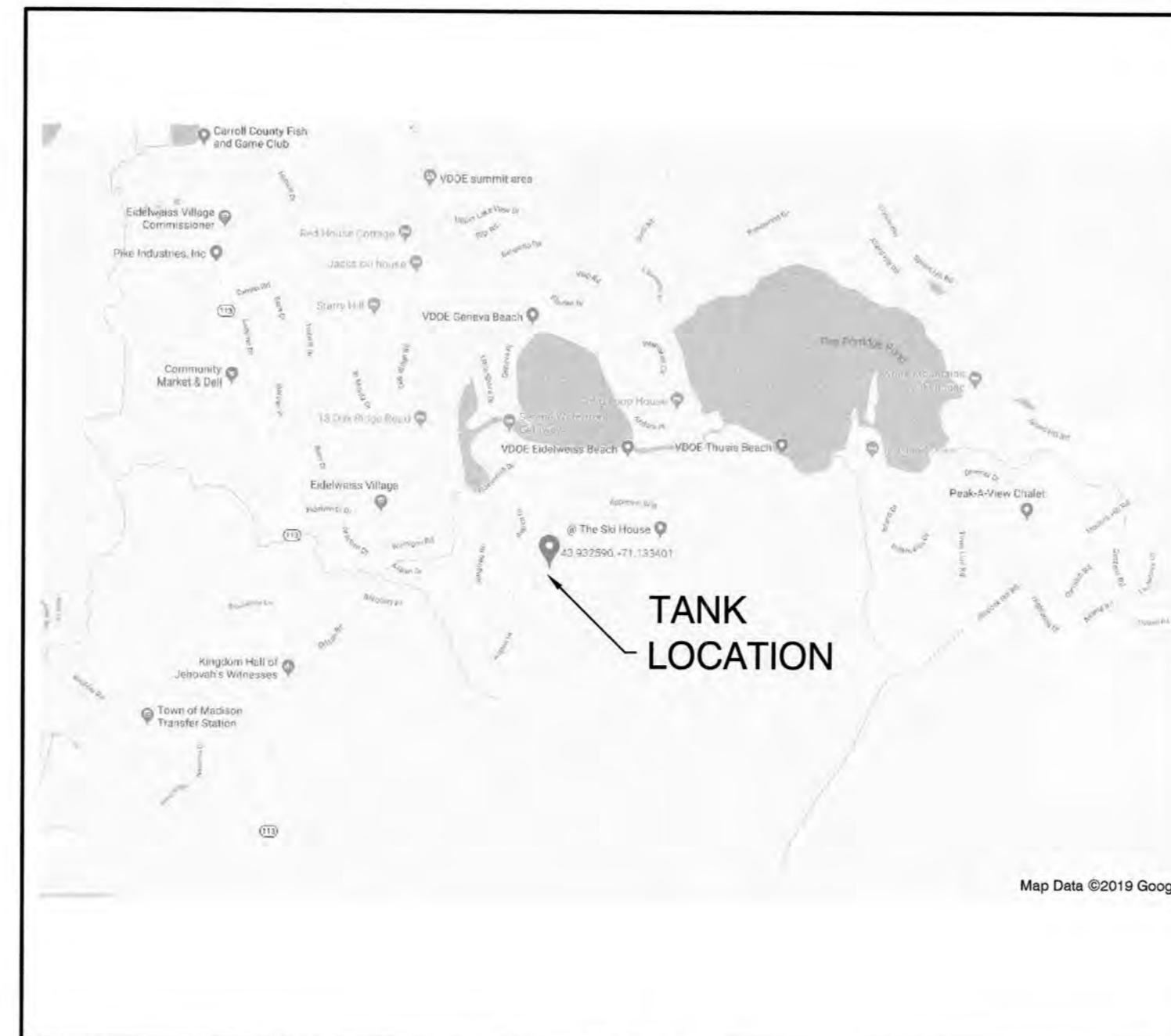


Know what's below
811 before you dig

TAX MAP 102, LOT 14
1680 CONWAY ROAD, MADISON, NH

GENERAL LEGEND

EXISTING	PROPOSED	DESCRIPTION
---	---	PROPERTY LINES
---	---	FRESHWATER WETLANDS LINE
---	---	TREE LINE
---	---	MAJOR CONTOUR
---	---	MINOR CONTOUR
---	---	EDGE OF PAVEMENT
X	X	SILT FENCE
D	---	DRAINAGE LINE
W	W	WATER LINE
WS	WS	WATER SERVICE
OHE	OHE	OVERHEAD ELECTRIC
UGE	UGE	UNDERGROUND ELECTRIC
100x0	100x0	THRUST BLOCK
100x0	100x0	SPOT GRADE
TP1	TP1	BENCHMARK (TBM)
TP1	TP1	WELL
TP1	TP1	TEST PIT
TP1	TP1	UTILITY POLE
TP1	TP1	HYDRANT
TP1	TP1	WATER GATE
TP1	TP1	WATER SHUT OFF
TP1	TP1	REDUCER
TP1	TP1	DRAINAGE FLOW DIRECTION
TP1	TP1	FRESHWATER WETLANDS
TP1	TP1	STABILIZED CONSTRUCTION
TP1	TP1	ENTRANCE
TP1	TP1	GRAVEL



LOCUS MAP
SCALE 1" = 2000'

SHEET INDEX

CS	COVER SHEET
OV1	OVERVIEW PLAN
C1	REINACH TANK SITE PLAN
C2	REINACH PRESSURE ZONE
C3	LAKEVIEW DRIVE PLAN
C4	MIDDLE SHORE DRIVE PLAN
C5	BIG LOOP ROAD PLAN
D1-D3	DETAIL SHEETS
E1	ELECTRICAL DETAILS

CIVIL ENGINEER / SURVEYOR
JONES & BEACH ENGINEERS, INC.
85 PORTSMOUTH AVENUE
PO BOX 219
STRATHAM, NH 03885
(603) 772-4746
CONTACT: CHRISTOPHER ALBERT
EMAIL: CALBERT@JONESANDBEACH.COM

ELECTRICAL ENGINEER
LEE F. CARROLL, PE
ELECTRICAL CONSULTANTS
1 MADISON AVE. P.O. BOX 357
GORHAM NH 03581-0357
603-466-5065
EMAIL: LCARROLL@NE.RR.COM

ELECTRIC
EVERSOURCE ENERGY
74 OLD DOVER ROAD
ROCHESTER, NH 03867
(603) 555-5334
CONTACT: LINDA FARRAR

WATER SYSTEM OPERATOR
SIMPLY WATER
ATTN: IAN HAYES
PO BOX 972
GLEN, NH 03838
(603) 986-5346
EMAIL: IAN@SIMPLYWATERNH.COM

OWNER
VILLAGE DISTRICT OF EIDELWEISS
ATTN: ADAM LEISER, COMMISSIONER
1680 CONWAY ROAD, PO BOX 1027
MADISON, NH 03849
(603) 367-9022
EMAIL: OFFICE@VDOC-NH.ORG

PLC-TELEMETRY SUPPLIER
ELECTRICAL INSTALLATIONS
ATTN: TOM THERLAN
397 WHITTIER HWY
MOULTONBOROUGH, NH
(603) 520-0516
EMAIL: TOM.THERLAN@EII-HQ.COM

TANK MANUFACTURER
DN TANKS
ATTN: COREY MYERS, NEW ENGLAND
REGIONAL MANAGER
11 TEAL ROAD
WAKEFIELD, MA 01880
(781) 224-5119
COREY.MYERS@DNTANKS.COM

Design: CSA	Draft: AMJ	Date: 06/20/2019
Checked: CSA	Scale: AS NOTED	Project No.: 19078
Drawing Name: 19078-PLAN.dwg		
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0	2/3/20	ISSUED CONTRACT 2	PSL

Designed and Produced in NH

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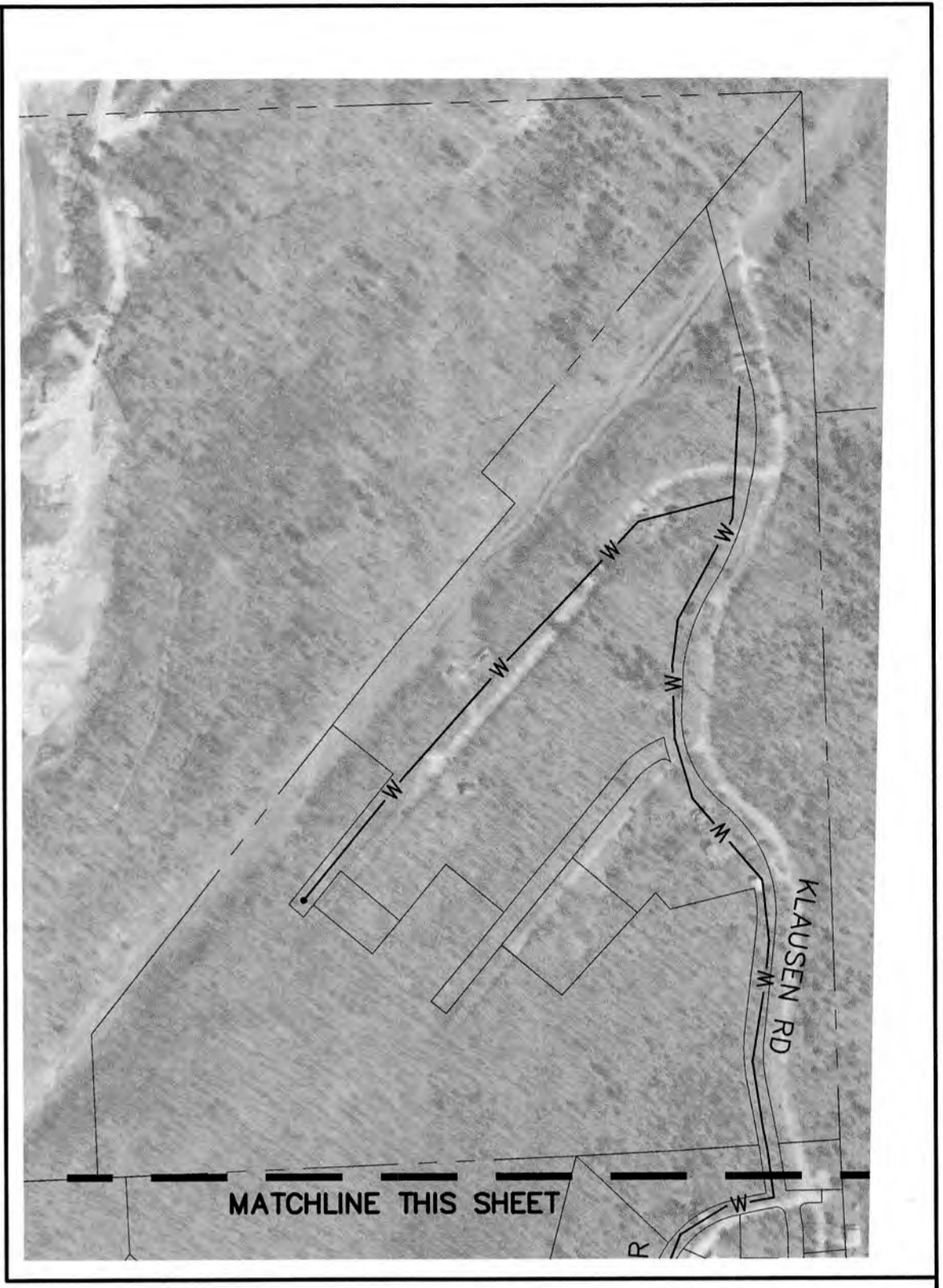
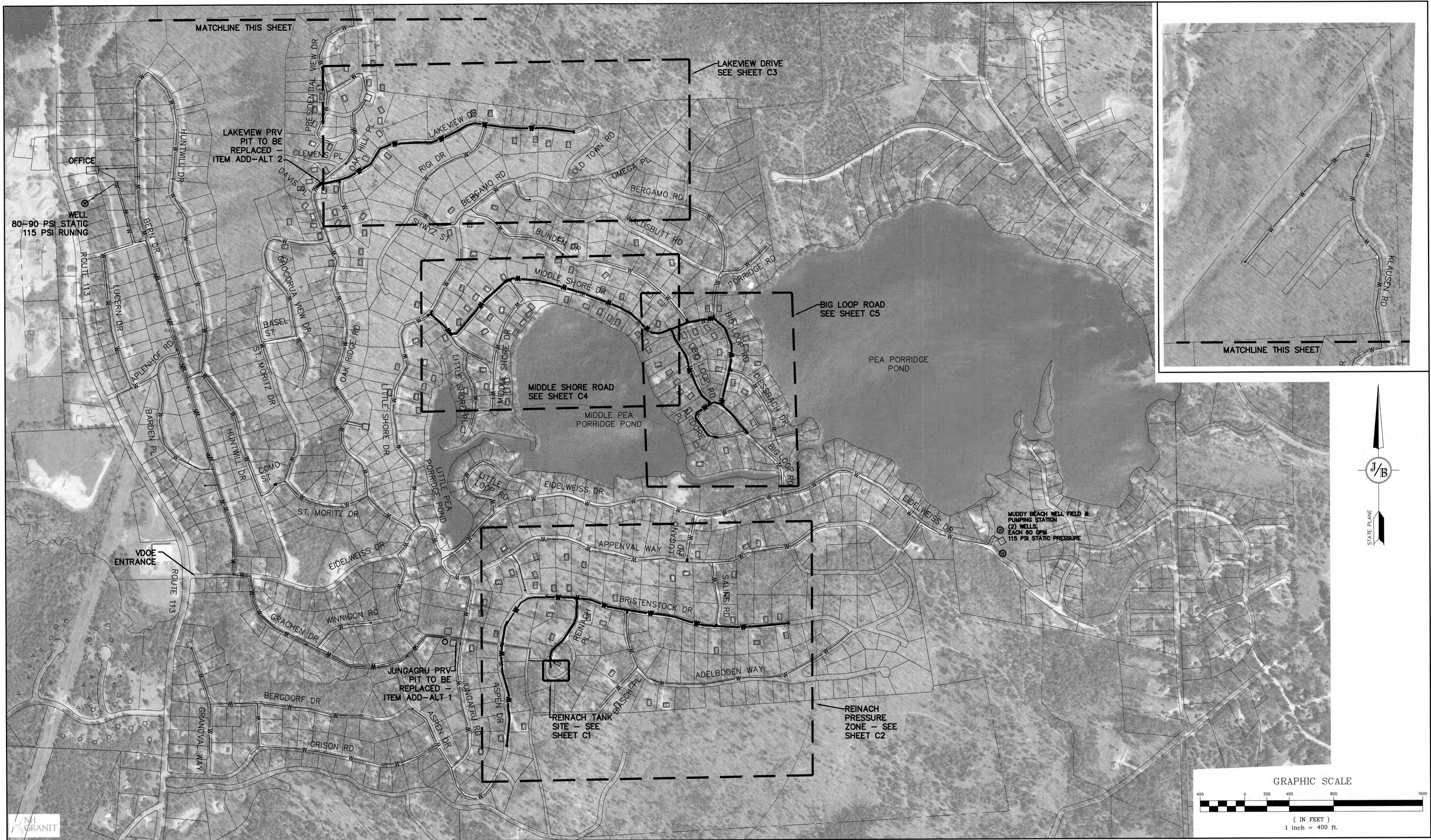
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885

Civil Engineering Services

603-772-4746
FAX: 603-772-0227
E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	COVER SHEET
Project:	VILLAGE DISTRICT OF EIDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES
Owner of Record:	ADAM LEISER, COMMISSIONER 1680 CONWAY ROAD, PO BOX 1027, MADISON, NH 03849

DRAWING No.	CS
SHEET 1 OF 11	
JBE PROJECT NO. 19078	



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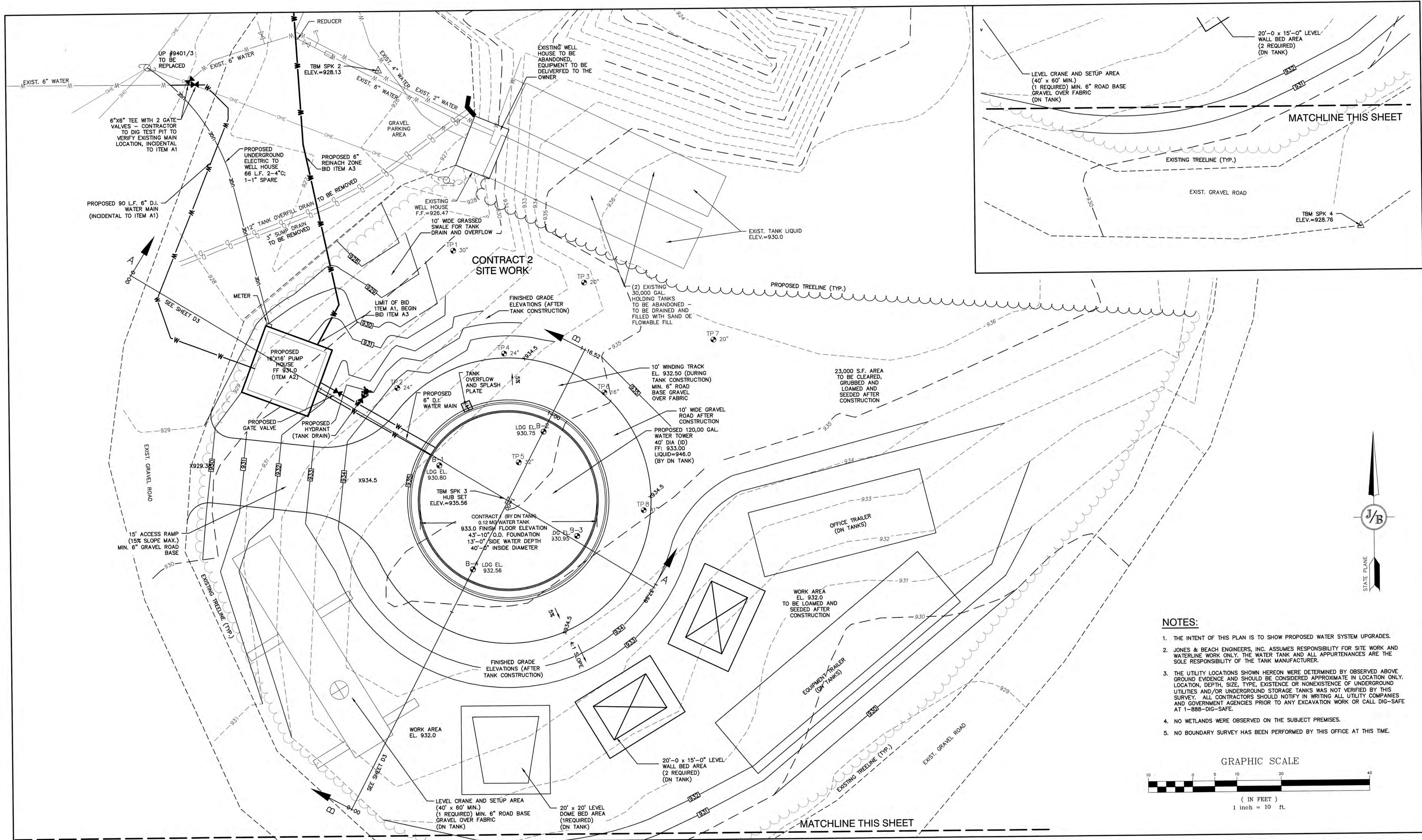


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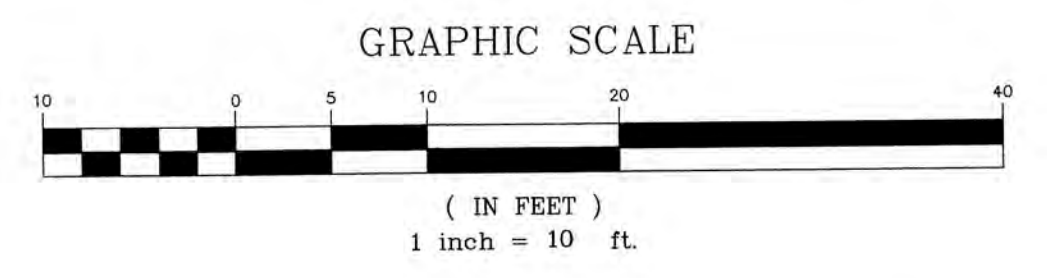
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 603-772-4746 FAX: 603-772-0227
 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **OVERVIEW PLAN**
 Project: **VILLAGE DISTRICT OF EIDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
 Owner of Record: **ADAM LEISER, COMMISSIONER**
 1680 CONWAY ROAD, PO BOX 1027, MADISON, NH 03849

DRAWING No. **OV1**
 SHEET 2 OF 11
 JBE PROJECT NO. 19078



- NOTES:**
1. THE INTENT OF THIS PLAN IS TO SHOW PROPOSED WATER SYSTEM UPGRADES.
 2. JONES & BEACH ENGINEERS, INC. ASSUMES RESPONSIBILITY FOR SITE WORK AND WATERLINE WORK ONLY. THE WATER TANK AND ALL APPURTENANCES ARE THE SOLE RESPONSIBILITY OF THE TANK MANUFACTURER.
 3. THE UTILITY LOCATIONS SHOWN HEREON WERE DETERMINED BY OBSERVED ABOVE GROUND EVIDENCE AND SHOULD BE CONSIDERED APPROXIMATE IN LOCATION ONLY. LOCATION, DEPTH, SIZE, TYPE, EXISTENCE OR NONEXISTENCE OF UNDERGROUND UTILITIES AND/OR UNDERGROUND STORAGE TANKS WAS NOT VERIFIED BY THIS SURVEY. ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK OR CALL DIG-SAFE AT 1-888-DIG-SAFE.
 4. NO WETLANDS WERE OBSERVED ON THE SUBJECT PREMISES.
 5. NO BOUNDARY SURVEY HAS BEEN PERFORMED BY THIS OFFICE AT THIS TIME.



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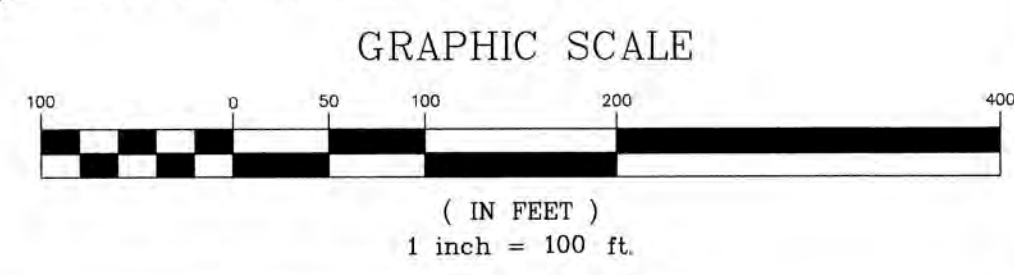
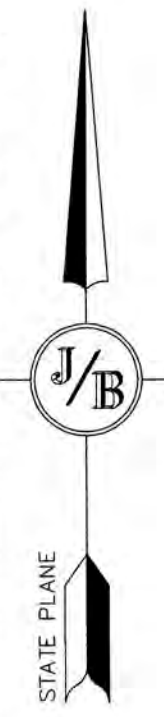
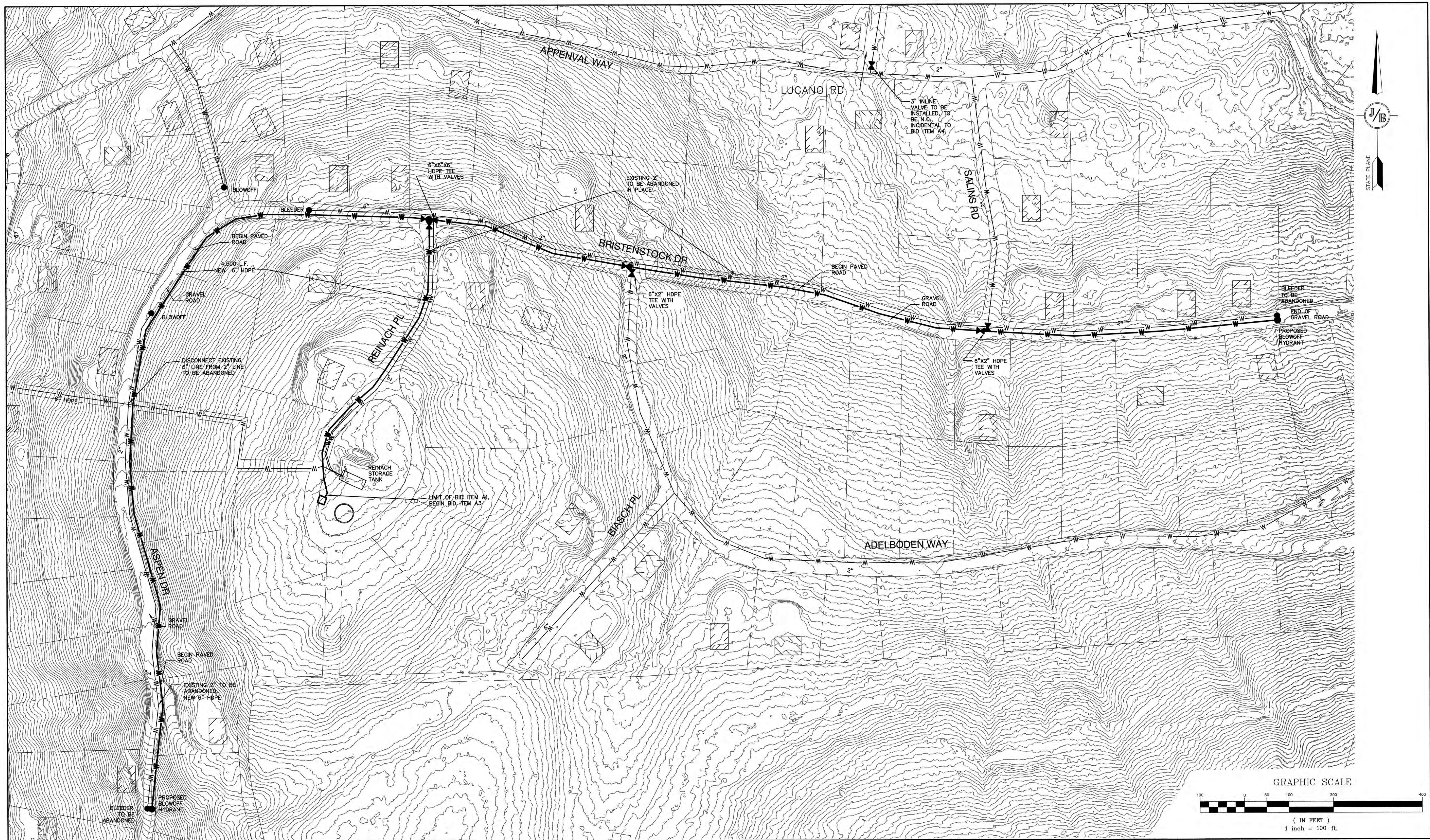
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Plan Name: **REINACH TANK SITE PLAN - BID ITEM A1**
 Project: **VILLAGE DISTRICT OF EIDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
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DRAWING No. **C1**
 SHEET 3 OF 11
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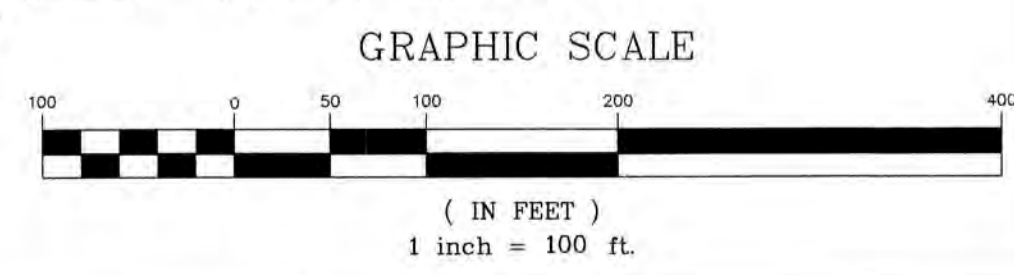
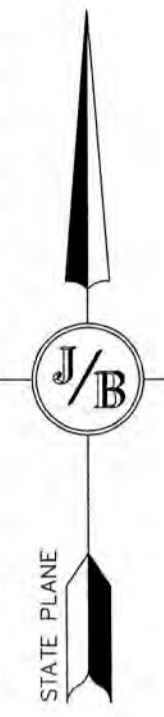
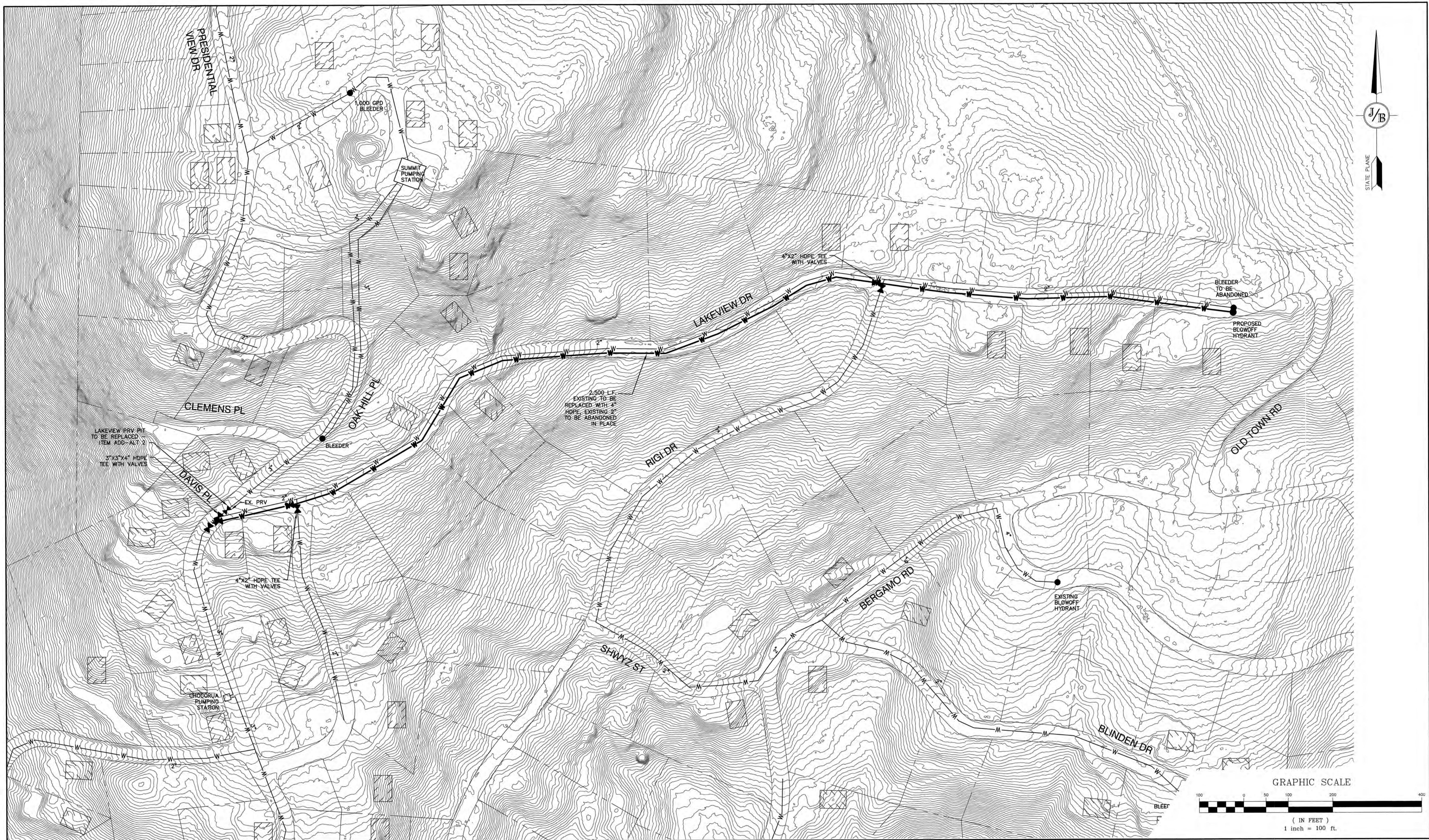


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Plan Name: **REINACH PRESSURE ZONE - BID ITEM A3**
 Project: **VILLAGE DISTRICT OF EIDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
 Owner of Record: **ADAM LEISER, COMMISSIONER 1680 CONWAY ROAD, PO BOX 1027, MADISON, NH 03849**

DRAWING No.
C2
 SHEET 4 OF 11
 JBE PROJECT NO. 19078



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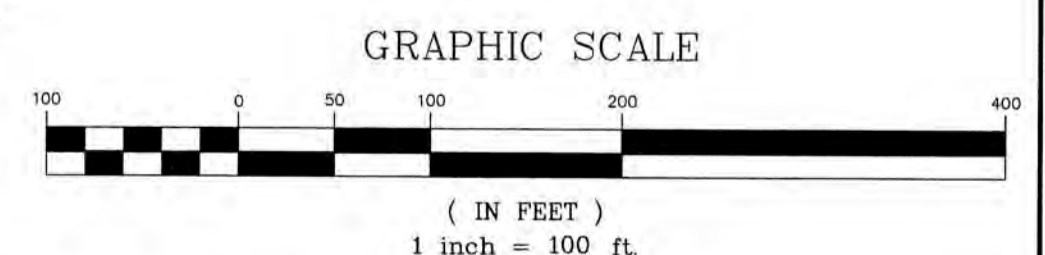
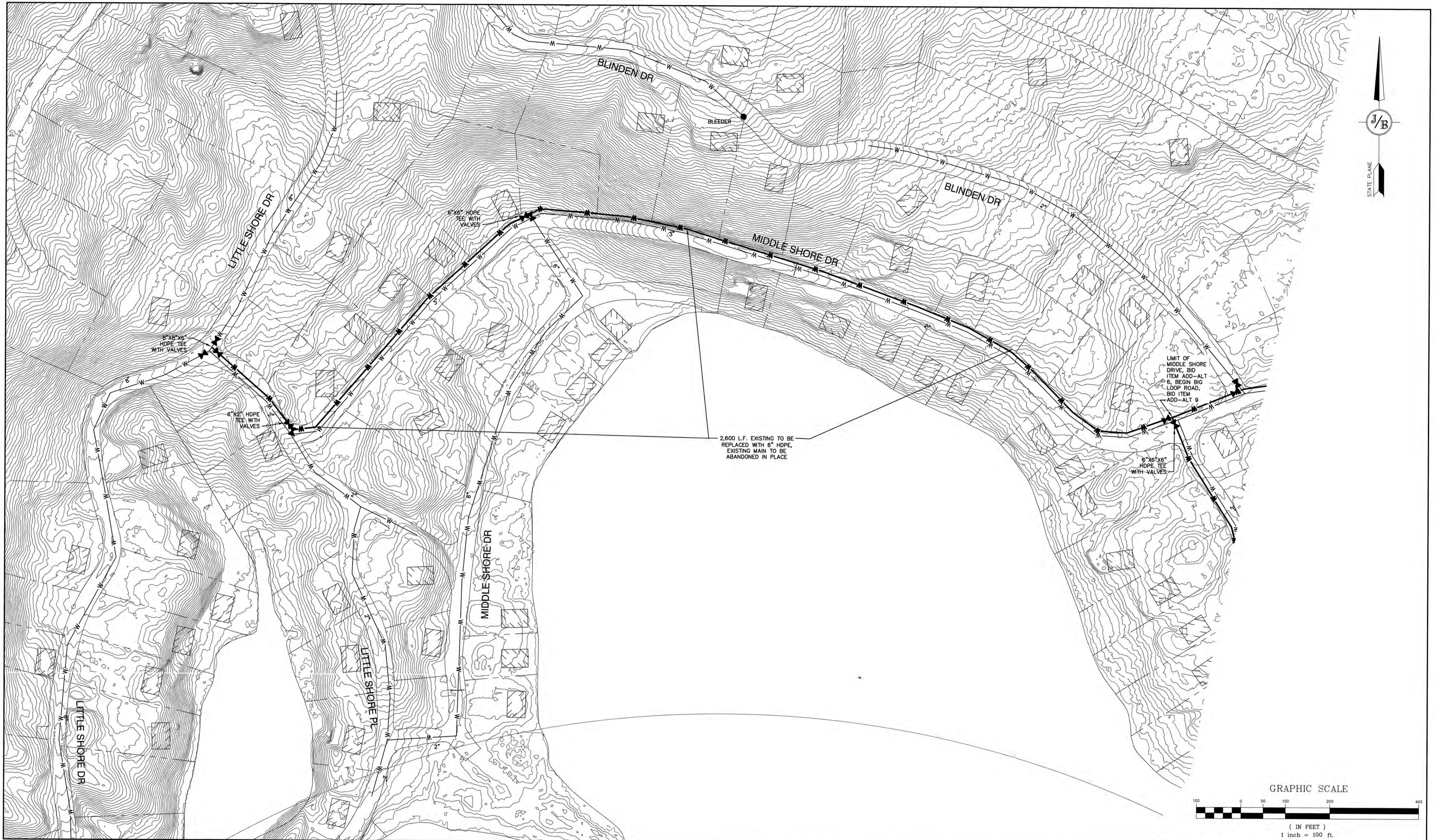


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 FAX: 603-772-0227
 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **LAKEVIEW DRIVE - BID ITEM ADD-ALT 3**
 Project: **VILLAGE DISTRICT OF IDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
 Owner of Record: **ADAM LEISER, COMMISSIONER 1680 CONWAY ROAD, PO BOX 1027, MADISON, NH 03849**

DRAWING No. **C3**
 SHEET 5 OF 11
 JBE PROJECT NO. 19078



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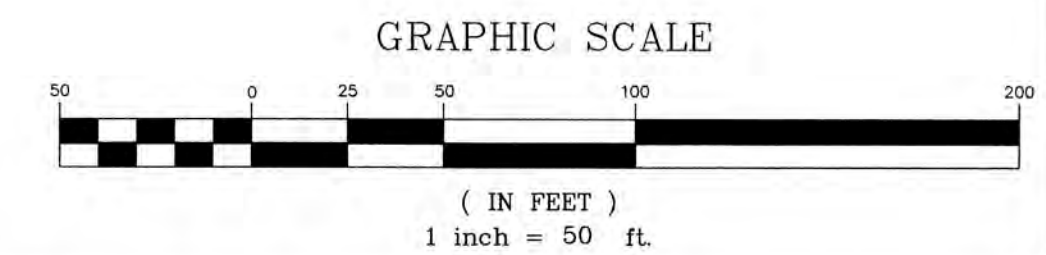
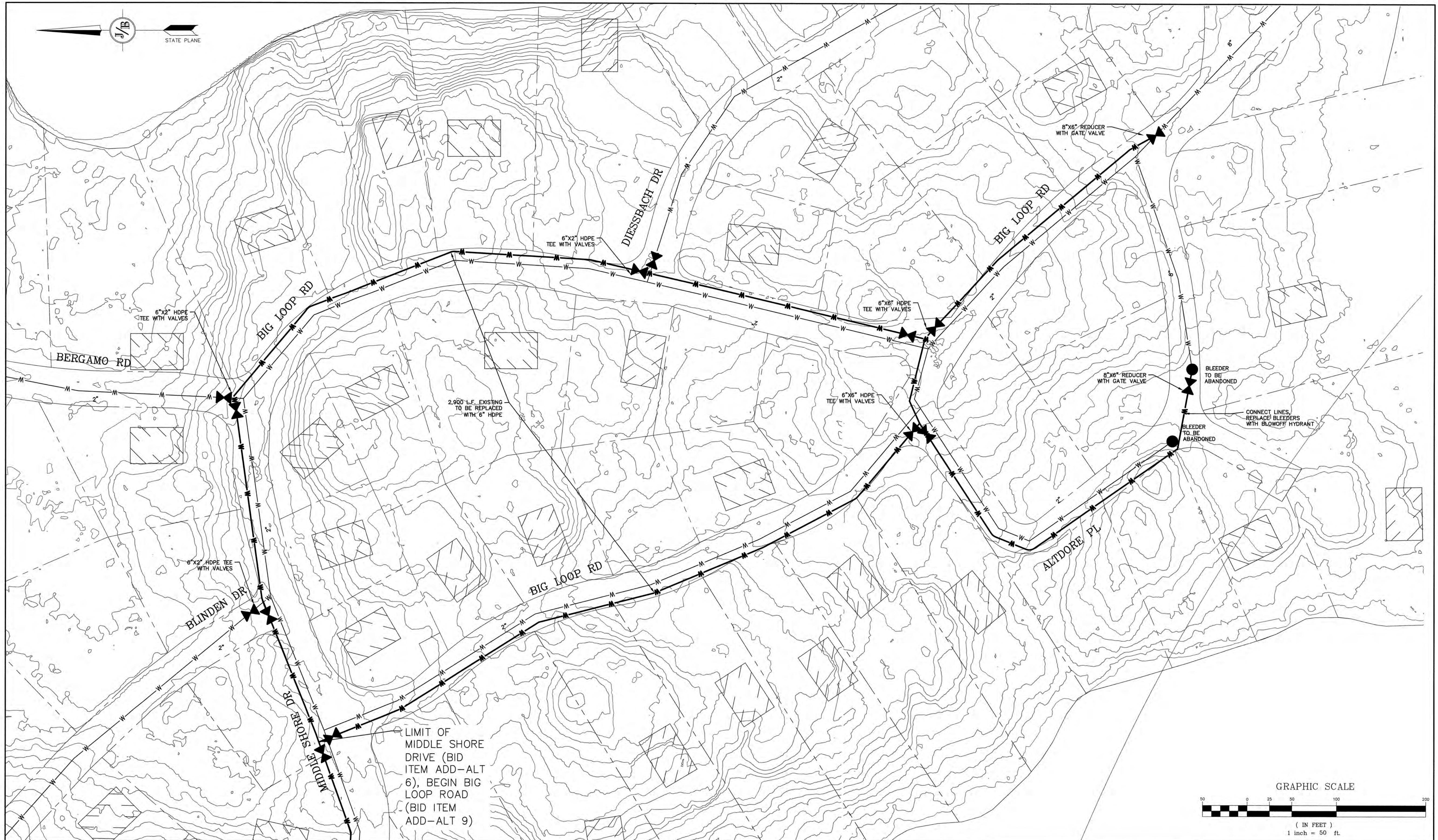
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Civil Engineering Services

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Plan Name: **MIDDLE SHORE DRIVE - BID ITEM ADD-ALT 6**
 Project: **VILLAGE DISTRICT OF EIDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
 Owner of Record: **ADAM LEISER, COMMISSIONER 1680 CONWAY ROAD, PO BOX 1027, MADISON, NH 03849**

DRAWING No. **C4**
 SHEET 6 OF 11
 JBE PROJECT NO. 19078



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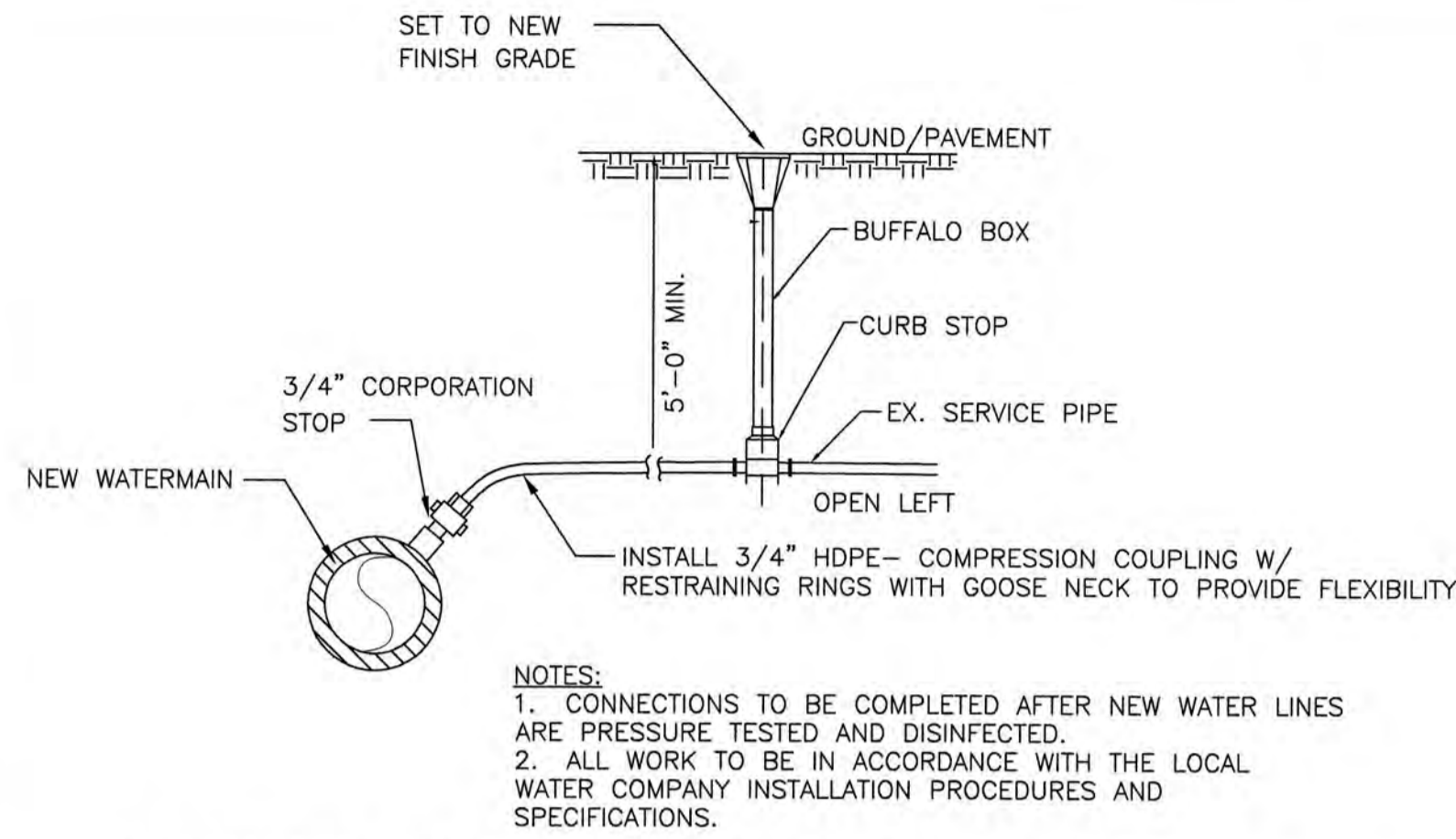
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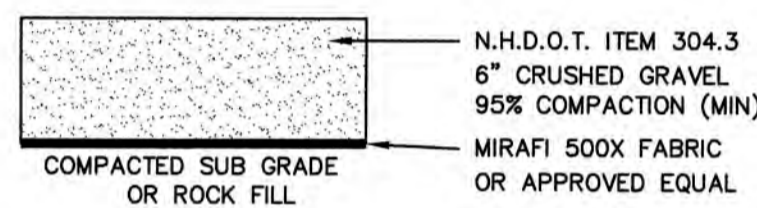
Plan Name: **BIG LOOP ROAD - BID ITEM ADD-ALT 9**
 Project: **VILLAGE DISTRICT OF IDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
 Owner of Record: **ADAM LEISER, COMMISSIONER**
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DRAWING No.
C5
 SHEET 7 OF 11
 JBE PROJECT NO. 19078



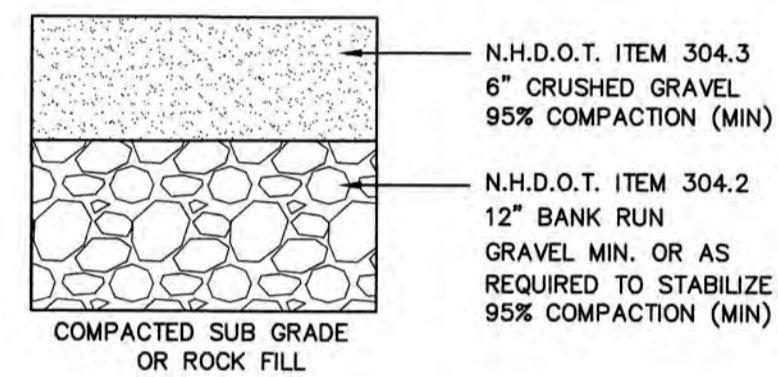
TYPICAL WATER SERVICE CONNECTION TO EXISTING SERVICES

NOT TO SCALE



10' WINDING TRACK AND CRANE PAD GRAVEL SECTION

NOT TO SCALE



FINISHED GRADE GRAVEL SECTION

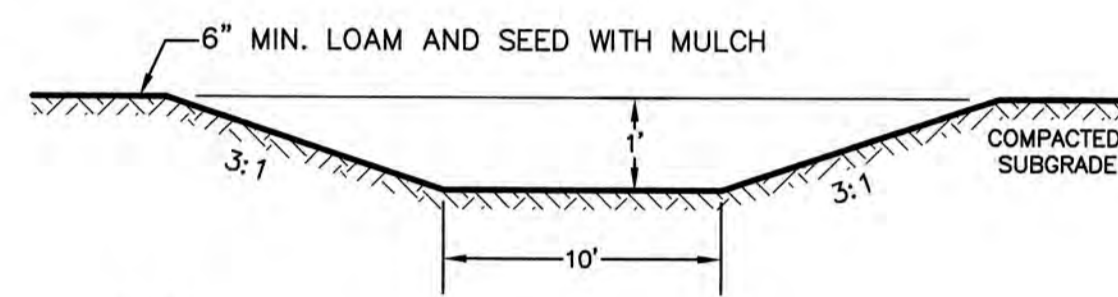
NOT TO SCALE

WATER SYSTEM TRENCH - IN LEDGE
(BID ITEMS A5, ADD-ALT 4 & ADD-ALT 10)

NOT TO SCALE

WATER SYSTEM TRENCH

NOT TO SCALE



NOTE:

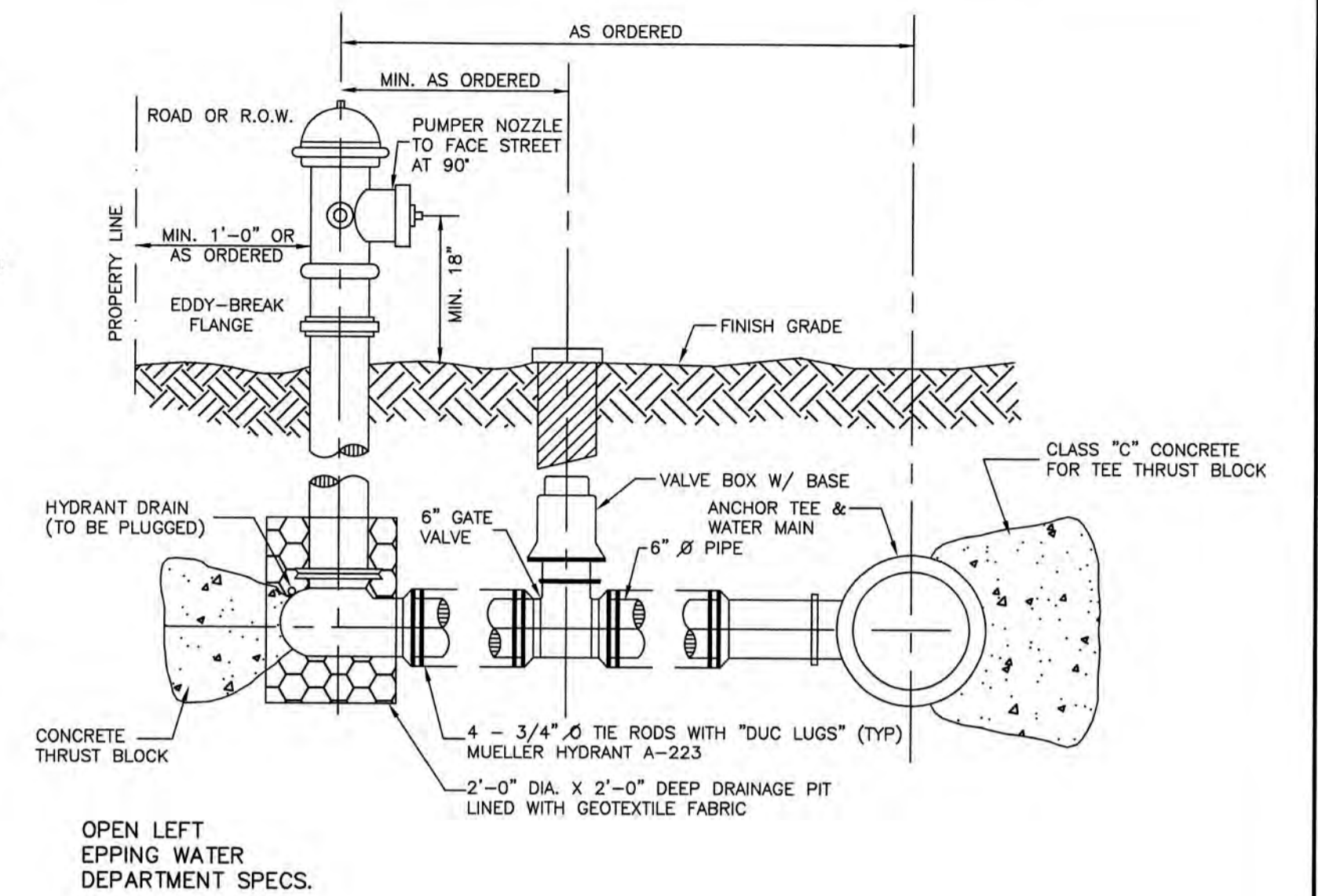
1. SWALE TO BE STABILIZED WITH NORTH AMERICAN GREEN 'BIO-NET' SERIES C125BN EROSION CONTROL BLANKET SECURED WITH BIODEGRADABLE 'BIO' OR 'ECO-STAKES'.

VEGETATED SWALE

NOT TO SCALE

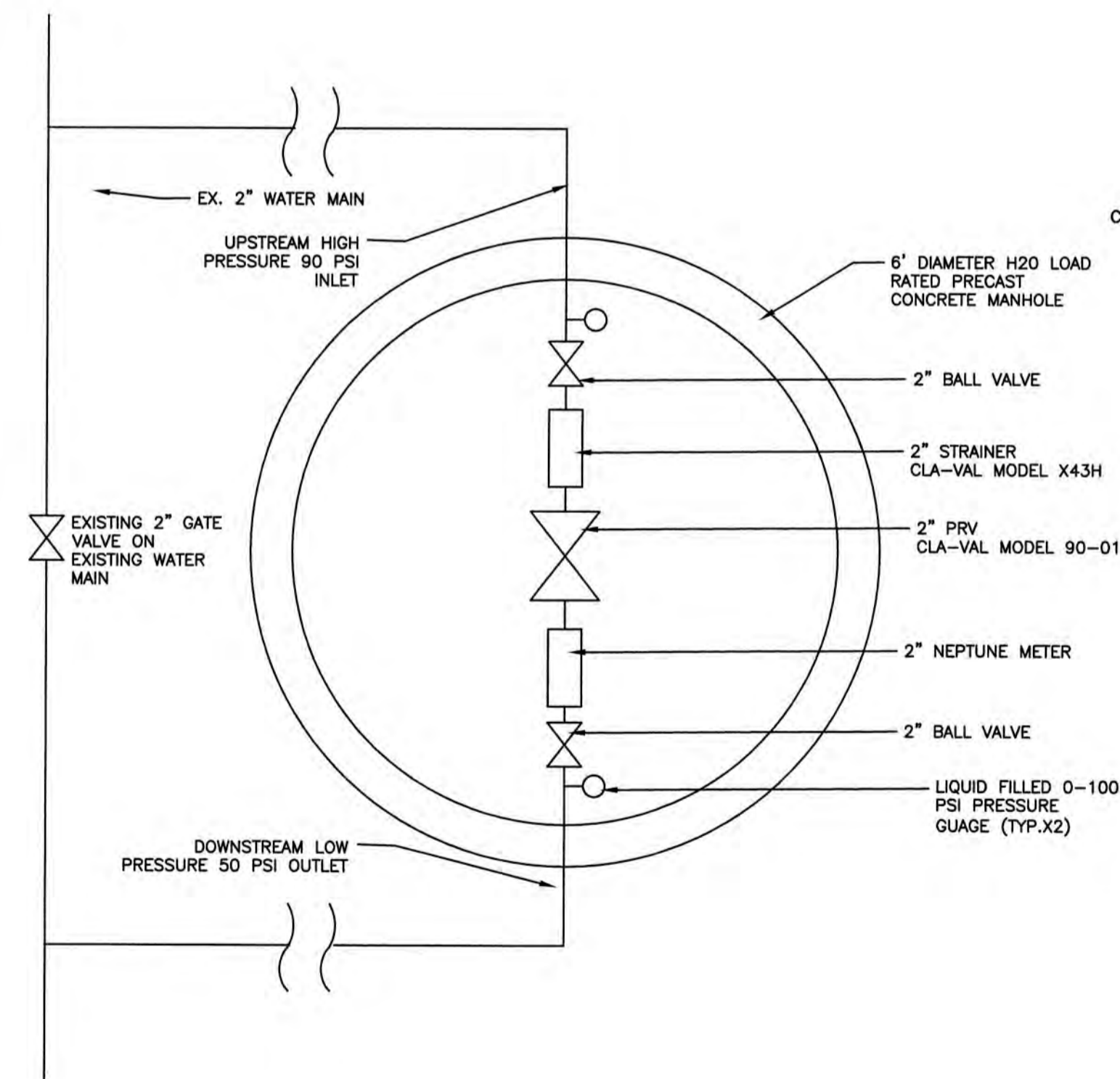
HYDRANT INSTALLATION

NOT TO SCALE



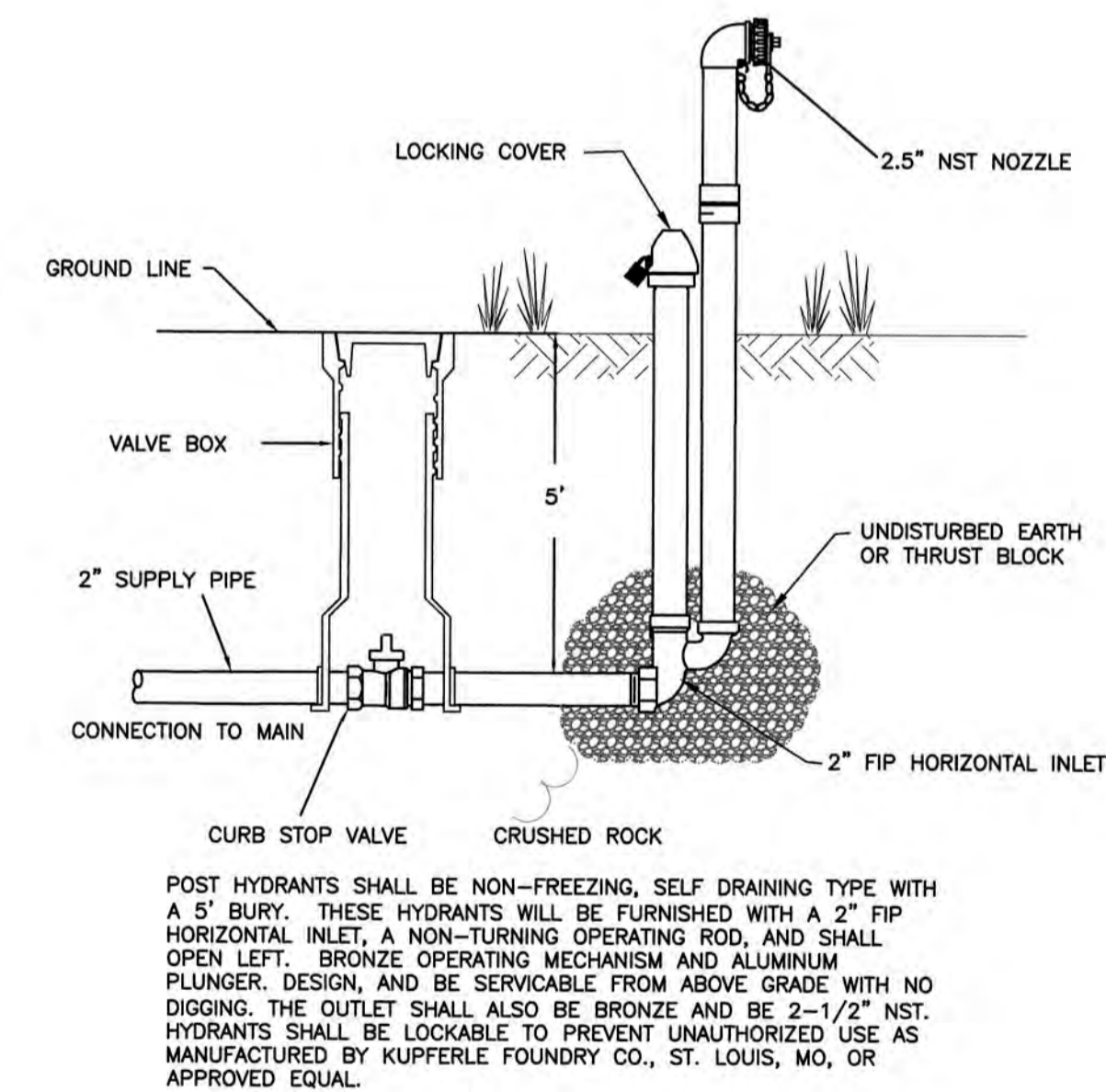
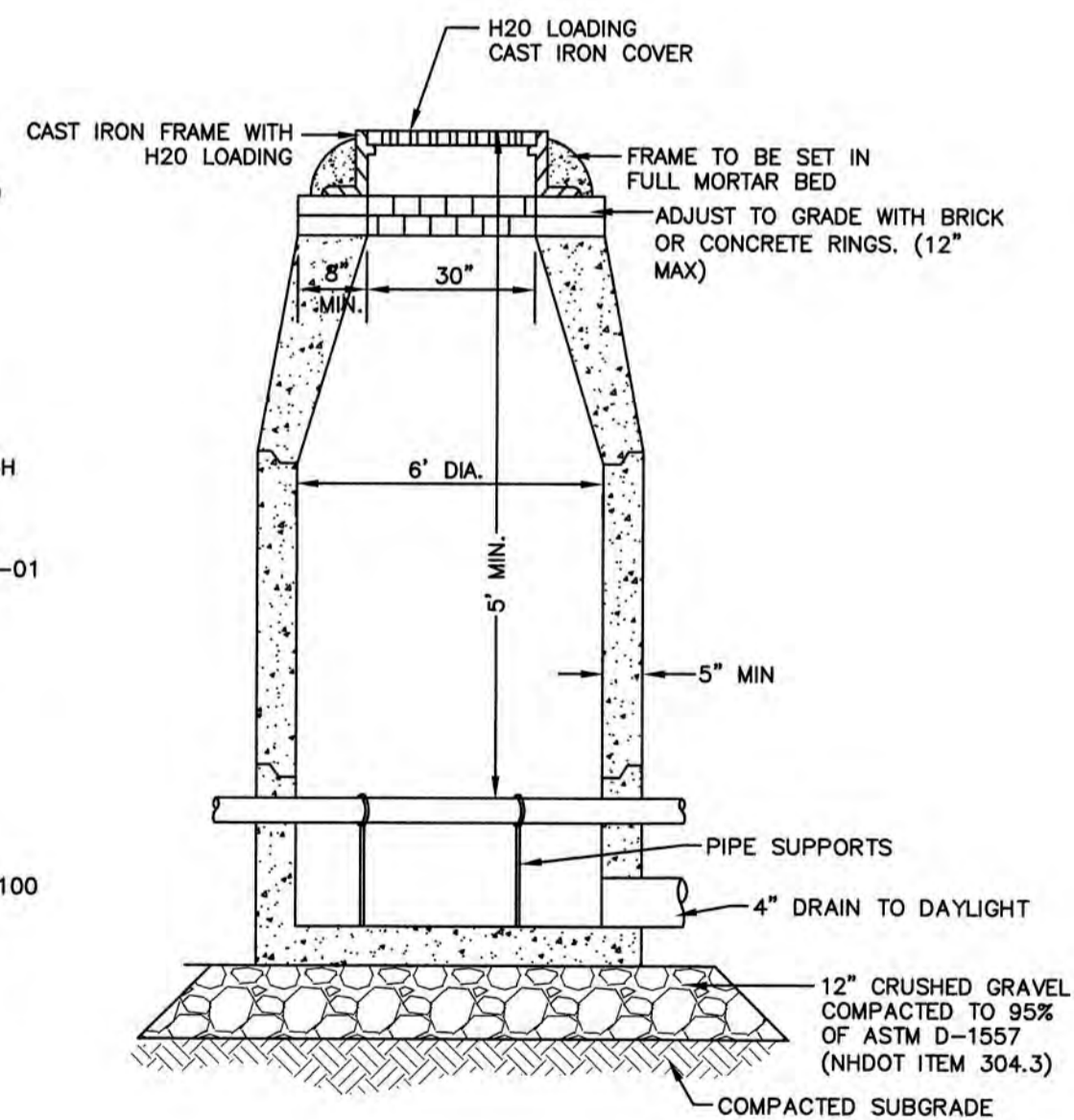
NOTES:

1. ALL PIPE FITTINGS TO BE D.I. PRESSURE CLASS 350, THICKNESS CLASS 52.
2. HYDRANT TO BE PAINTED RED WITH WHITE 'REFLECTOR' PAINT ON BONNET.
3. MECHANICAL JOINTS SHALL HAVE MEGALUG RETAINING GLANDS AS MADE BY EBBA OR APPROVED EQUAL.
4. STEAMER NOZZLE TO BE 'STORCH' TYPE.
5. NATIONAL STANDARD THREAD.



PRESSURE REDUCER VALVE SCHEMATIC
JUNGAFRU AND LAKEVIEW PRV PITS (BID ITEMS ADD-ALT 1 & ADD-ALT 2)

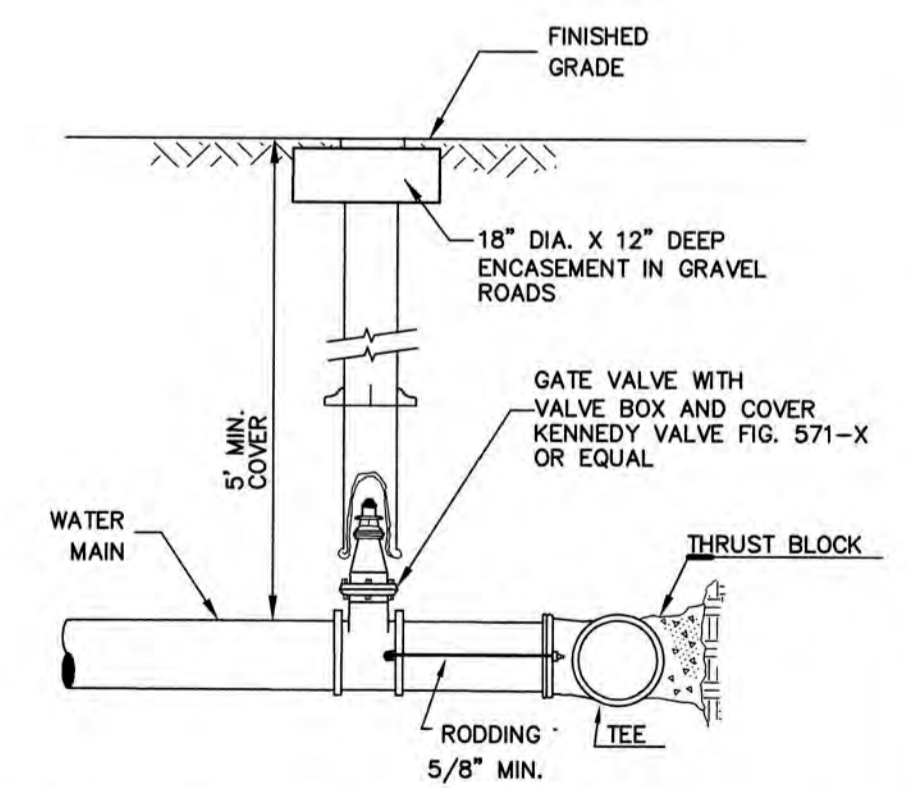
NOT TO SCALE



INLET PRESSURE (PSI)	FLOW RATE (GPM)
75	675
100	742
125	800
150	856

BLOW-OFF HYDRANT DETAIL

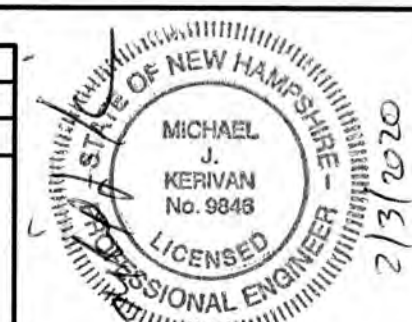
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BURIED GATE VALVE DETAIL

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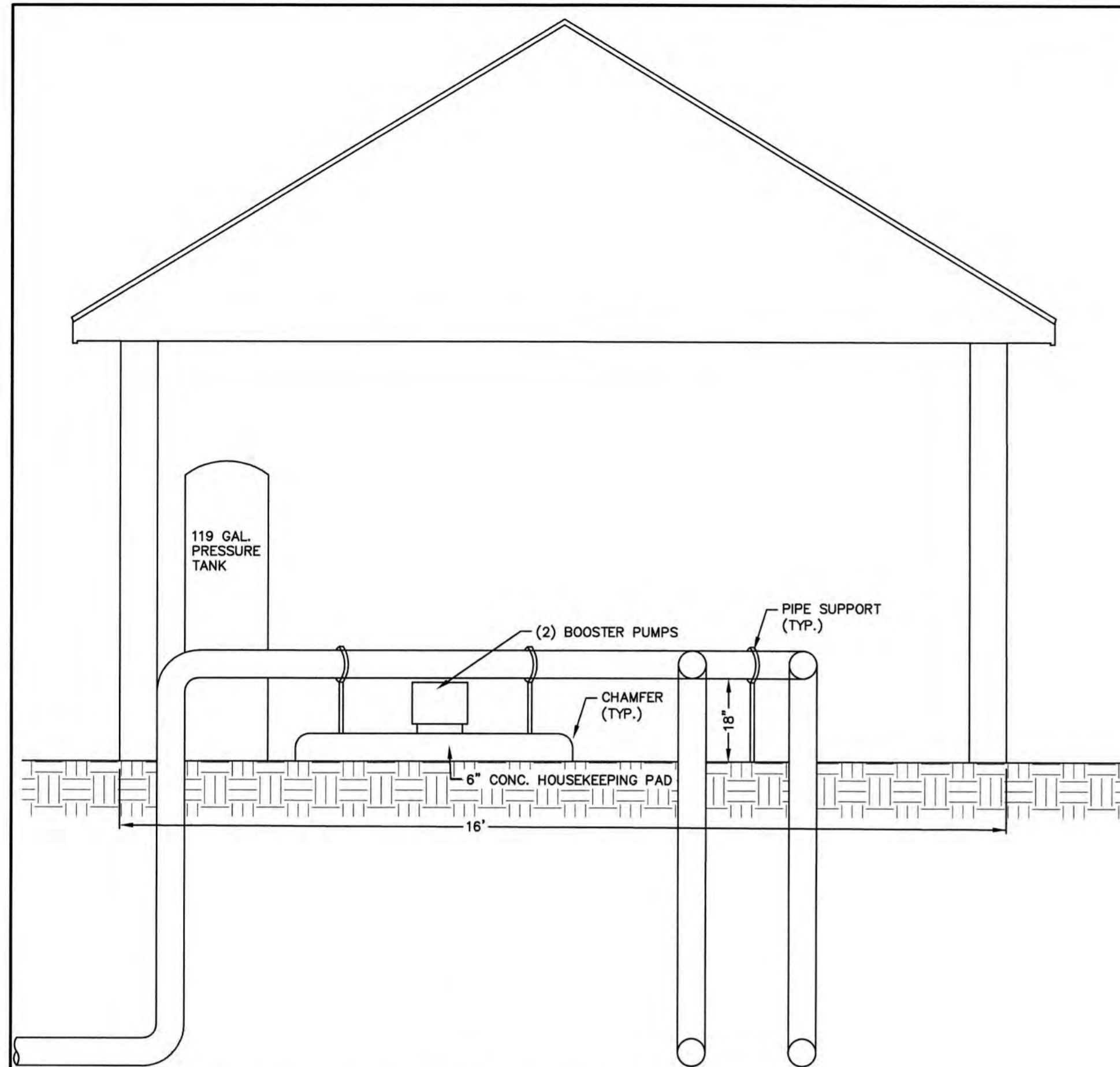


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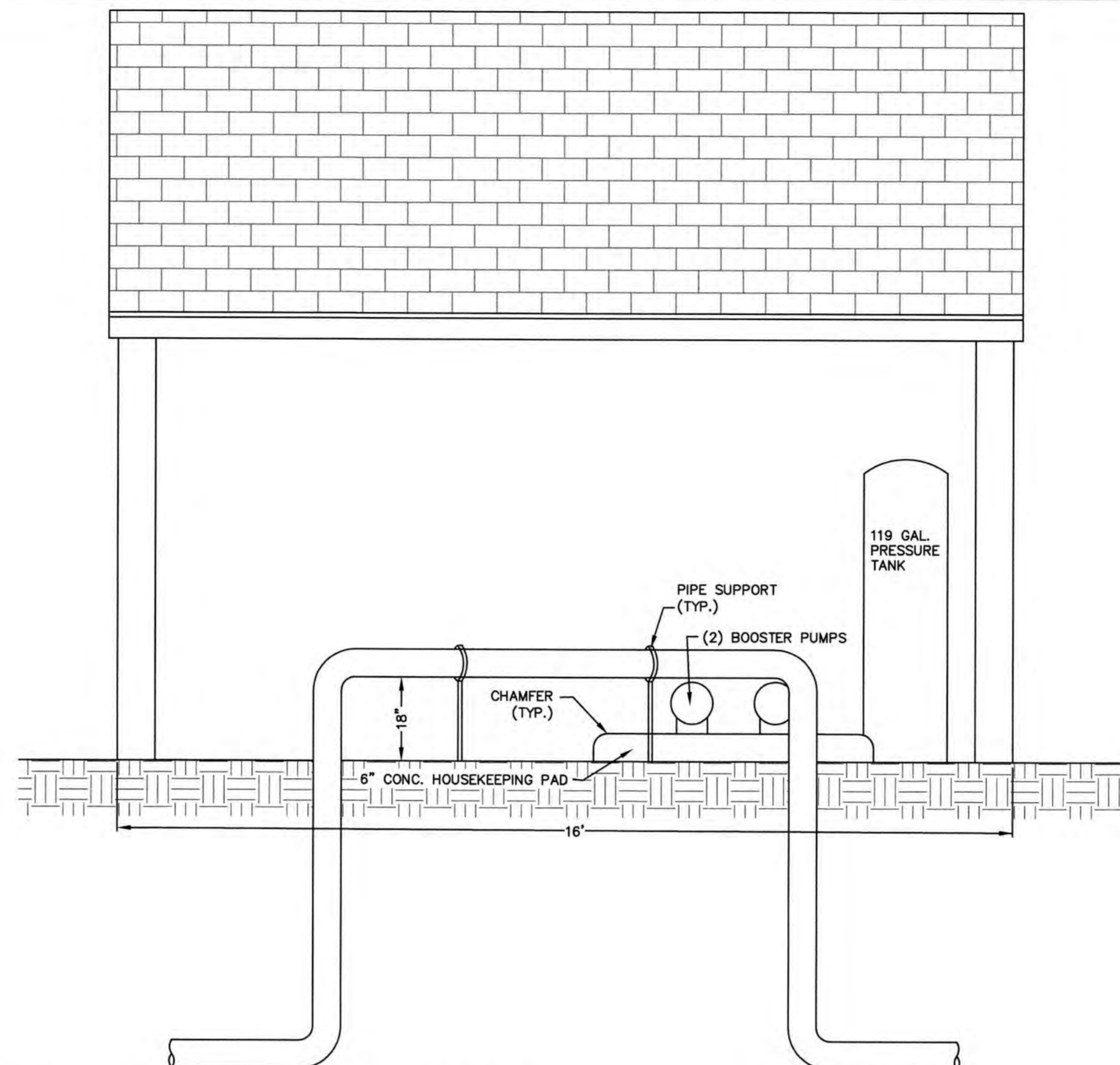
Plan Name: **DETAIL SHEET**
 Project: **VILLAGE DISTRICT OF EIDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
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 1680 CONWAY ROAD, PO BOX 1027, MADISON, NH 03849

DRAWING No. **D1**
 SHEET 8 OF 11
 JBE PROJECT NO. 19078



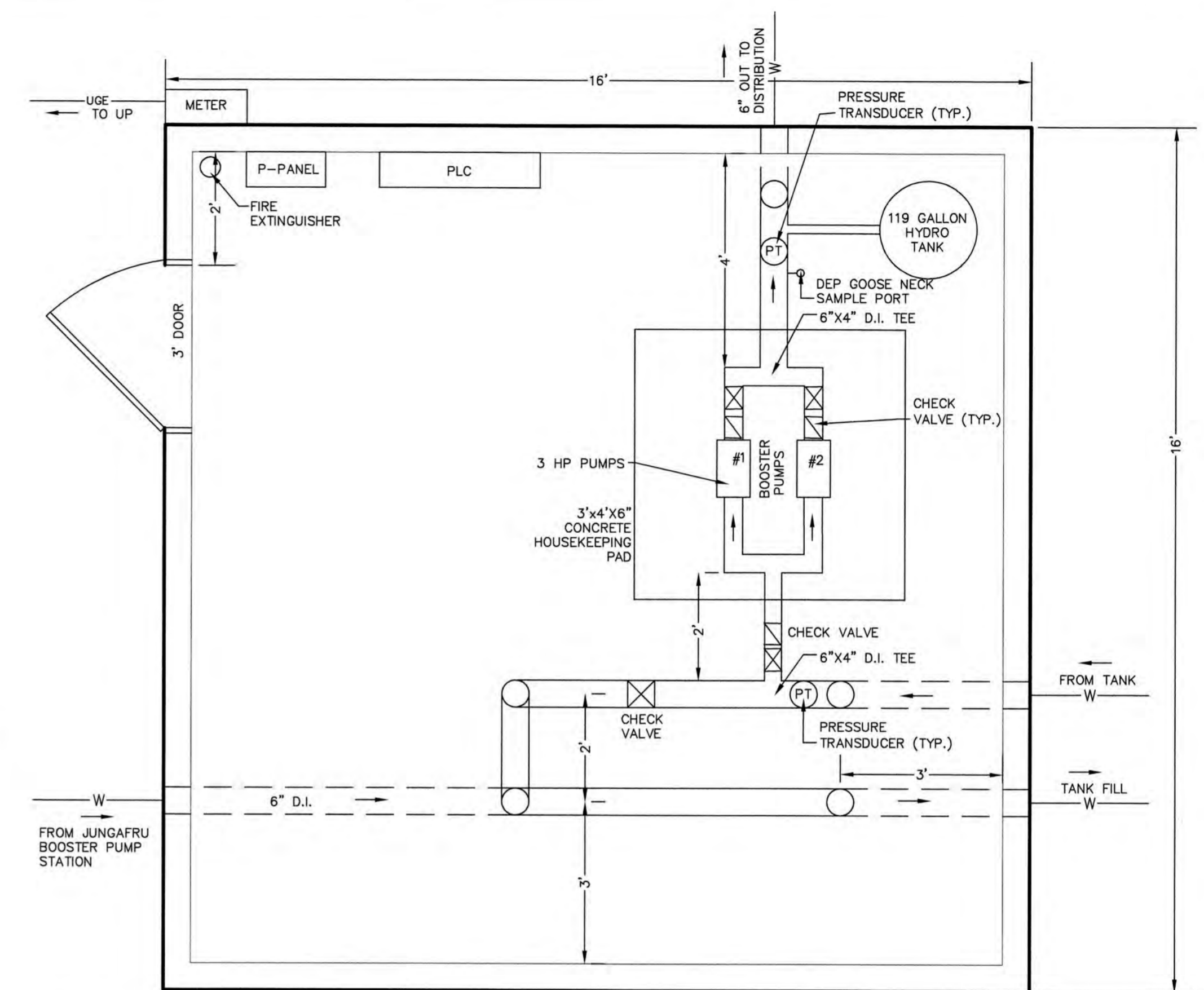
PUMP HOUSE INTERIOR ELEVATION - WEST

SCALE: 1"=2'



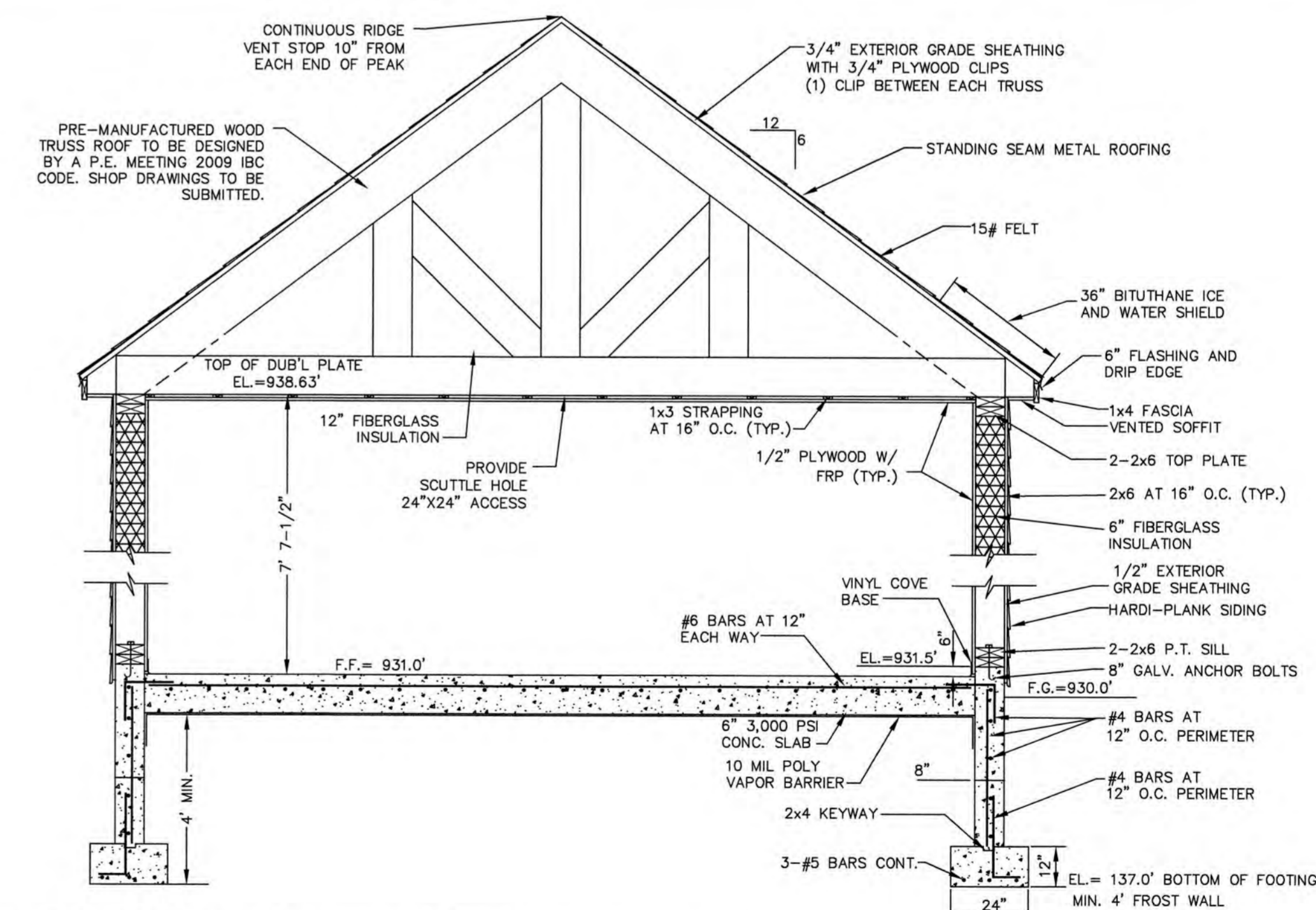
PUMP HOUSE INTERIOR ELEVATION - SOUTH

SCALE: 1"=2'



INTERIOR BUILDING PLAN

SCALE: 1"=2'

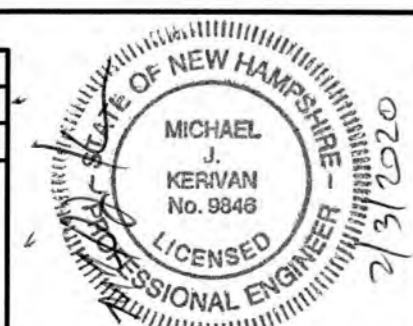


PUMP STATION TYPICAL WALL SECTION

NOT TO SCALE

- NOTES**
1. WALL, CEILING, AND CONCRETE FLOOR PAINTED WITH EPOXY-POLYIMIDE, SEMI-GLOSS, 2 COATS
 2. ALL CONCRETE 3,000 PSI
 3. ALL STEEL REINF. IS GRADE 40
 4. ALL EXTERIOR LIGHTING NEMA IV OR EQUAL
 5. MIN. 6" - #67 STONE UNDER FOUNDATION SLAB AND FOOTINGS.

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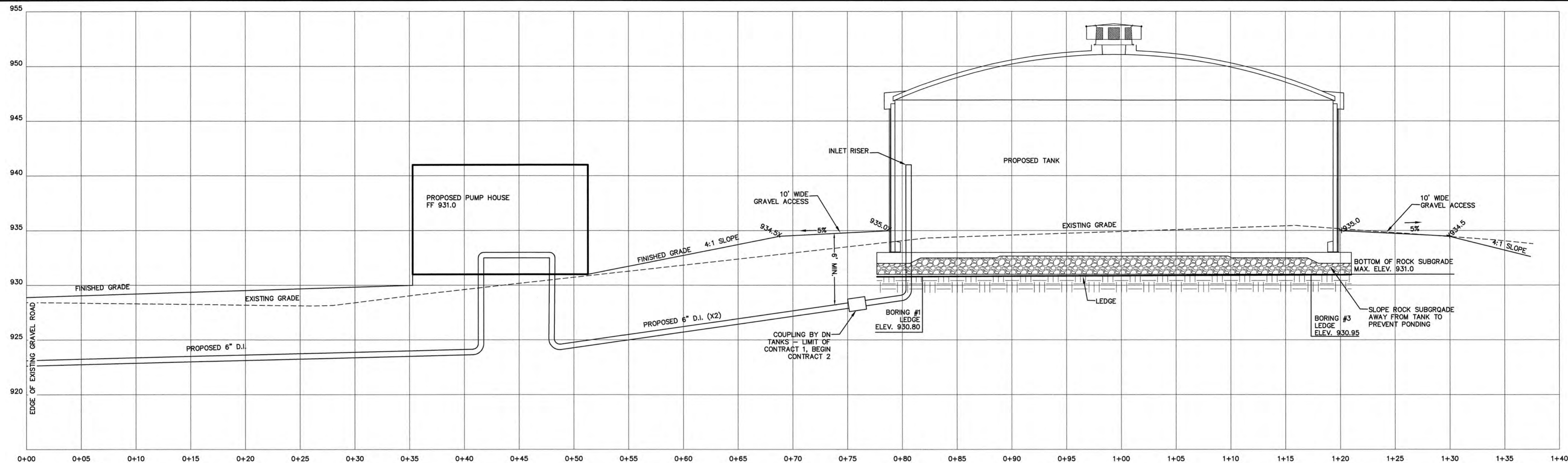
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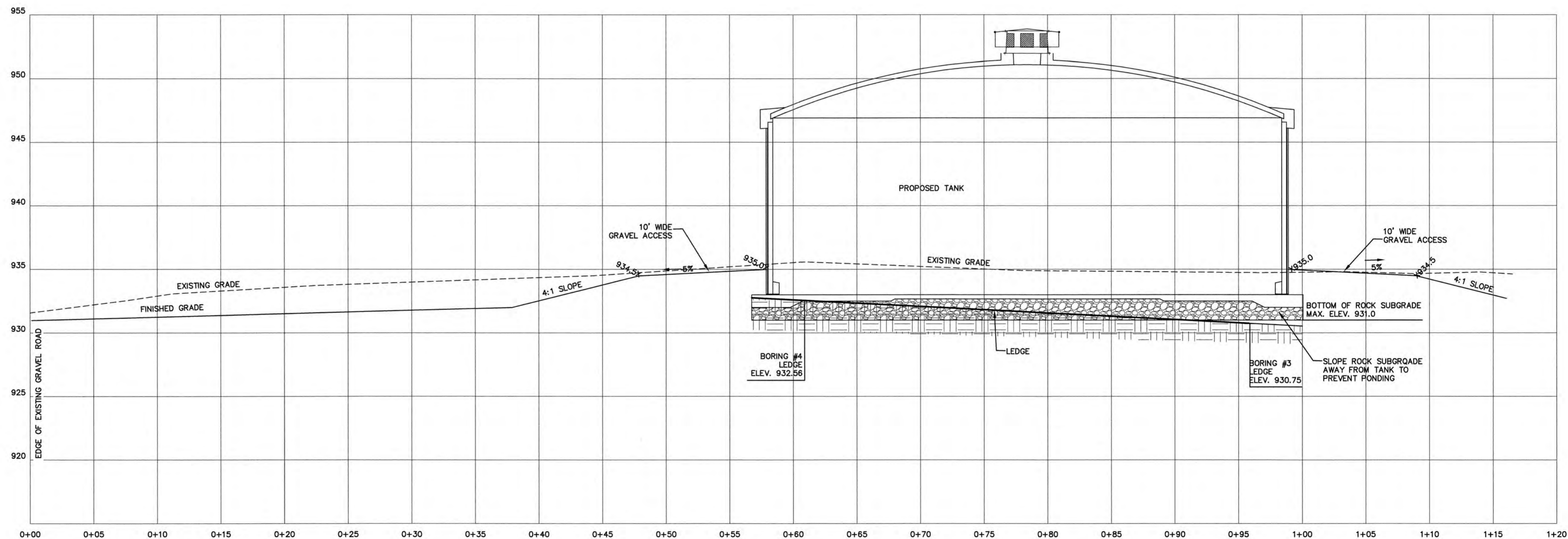
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DRAWING No.	D2
SHEET 9 OF 11	JBE PROJECT NO. 19078



CROSS SECTION AA

SCALE: 1"=5'



CROSS SECTION BB

SCALE: 1"=5'

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ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
EUH	ELECTRIC UNIT HEATER
WP	WASTE WATER PUMP STATION
PS	PRESSURE SWITCH
LT	LEVEL TRANSMITTER
EF	EXHAUST FAN
GFI	GROUND FAULT INDICATOR
MOD	MOTOR OPERATED DAMPER
PCP	PUMP CONTROL PANEL
H-O-A	HAND-OFF-AUTO
WP	WATER PROOF
FM	FLOW METER
HP	HORSE POWER
MBV	MOTORIZED BALL VALVE
PT	PRESSURE TRANSMITTER
FBO	FURNISHED BY OTHERS
A/V	AUDIBLE/VISIBLE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
SP	SAMPLE PORT

LEGEND

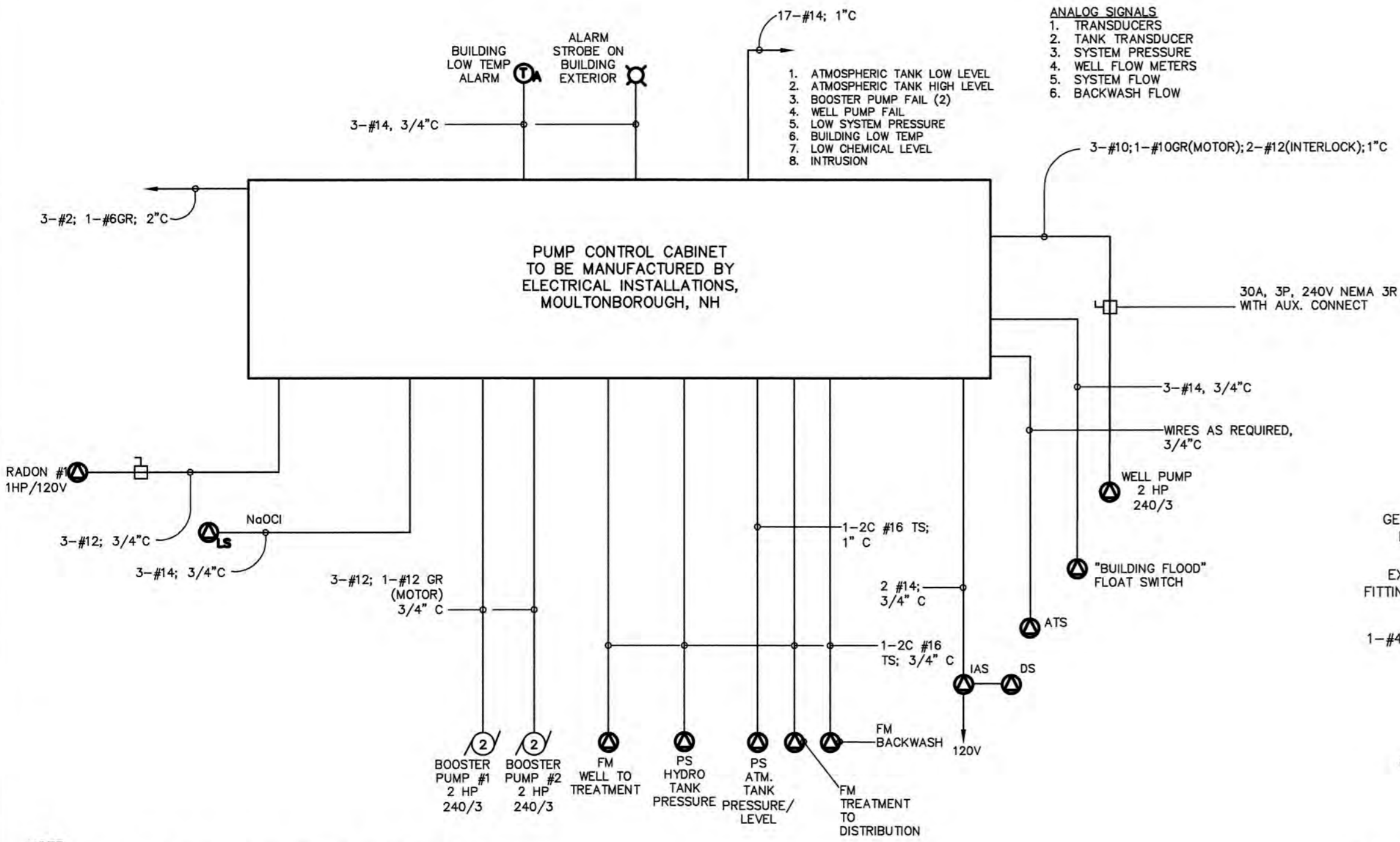
SYMBOL	DESCRIPTION
[Symbol]	FLUORESCENT LIGHT FIXTURE
[Symbol]	INCANDESCENT, COMPACT FLUORESCENT, HID LIGHT FIXTURE
[Symbol]	EMERGENCY LIGHT FIXTURE
[Symbol]	BUILDING LOW TEMPERATURE ALARM THERMOSTAT; 54" AFF
[Symbol]	EXHAUST FAN THERMOSTAT; 54" AFF
[Symbol]	CONNECTION TO FIXED EQUIPMENT
[Symbol]	SINGLE POLE SWITCH; 48" AFF
[Symbol]	DUPLEX RECEPTACLE; 36" AFF
[Symbol]	DISCONNECT OR ENCLOSED CIRCUIT BREAKER
[Symbol]	MOTOR; NUMBER INDICATES HORSE POWER
[Symbol]	JUNCTION BOX
[Symbol]	DOOR SECURITY SWITCH
[Symbol]	SINGLE RECEPTACLE, CORROSION RESISTANT, 48" AFF

ELECTRIC UNIT HEATER SCHEDULE

BERKO HUH-S24TA, 1P, 60HZ, 240/208VOLTS, 7.5 KW, WITH DS-30 BUILT-IN DISCONNECT AND MB-1A WALL BRACKET. COORDINATE FINAL POSITION IN FIELD WITH ENGINEER.

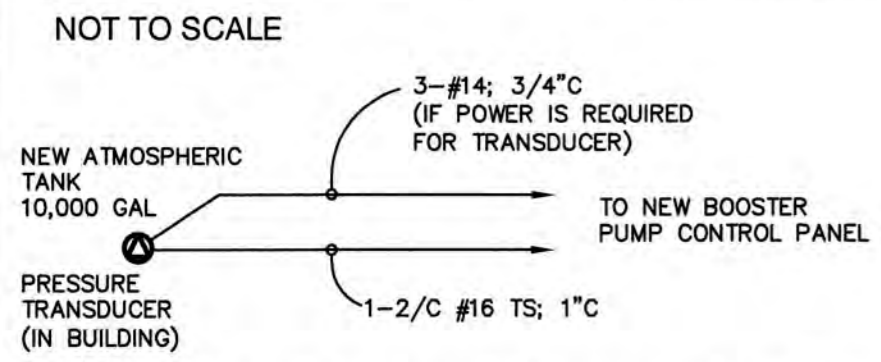
FIXTURE SCHEDULE

TYPE	MAKE/MODEL	MOUNTING
A	LITHONIA ZLIN L48 5000LM FST MVDIT 30K 80CRI WH	CEILING SURFACE
B	RAB WPLED 10 Y WITH MOTION SENSOR	WALL ABOVE DOOR
AA	LITHONIA ELM4-TH-H	WALL 12" BELOW CEILING
BB	LITHONIA ELA H0812 WITH VANDAL SHIELD	WALL BELOW EAVE

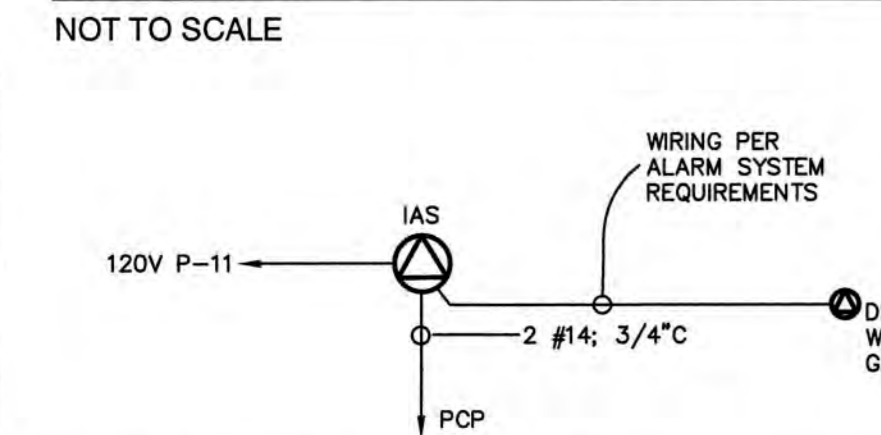


NOTE: PCP CONTAINS VFD/PHASE CONVERTERS FOR BOOSTER PUMPS; AND CONTROLS FOR WELL PUMPS; BREAKERS FOR EACH PUMP; AND CONTROLS, ETC.

TYPICAL INTERCONNECTION DIAGRAM - PUMP CONTROL PANEL



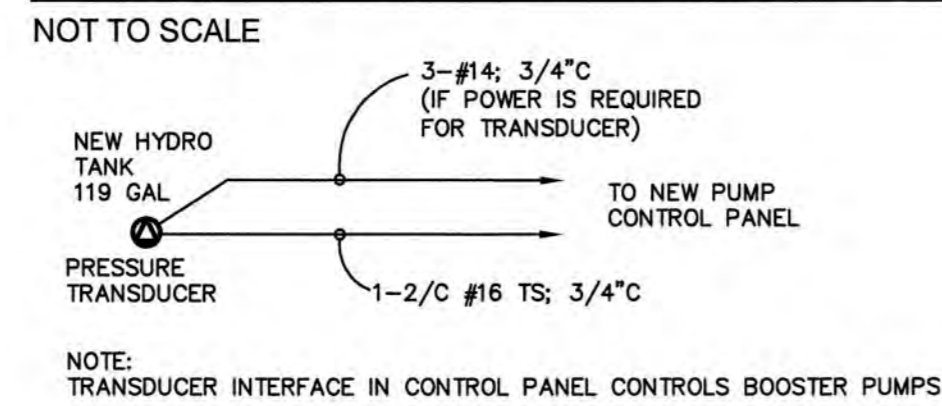
ATMOSPHERIC TANK PRESSURE (LEVEL) TRANSDUCER INTERCONNECTION (FUTURE)



INTRUSION SYSTEM INTERCONNECTION DIAGRAM

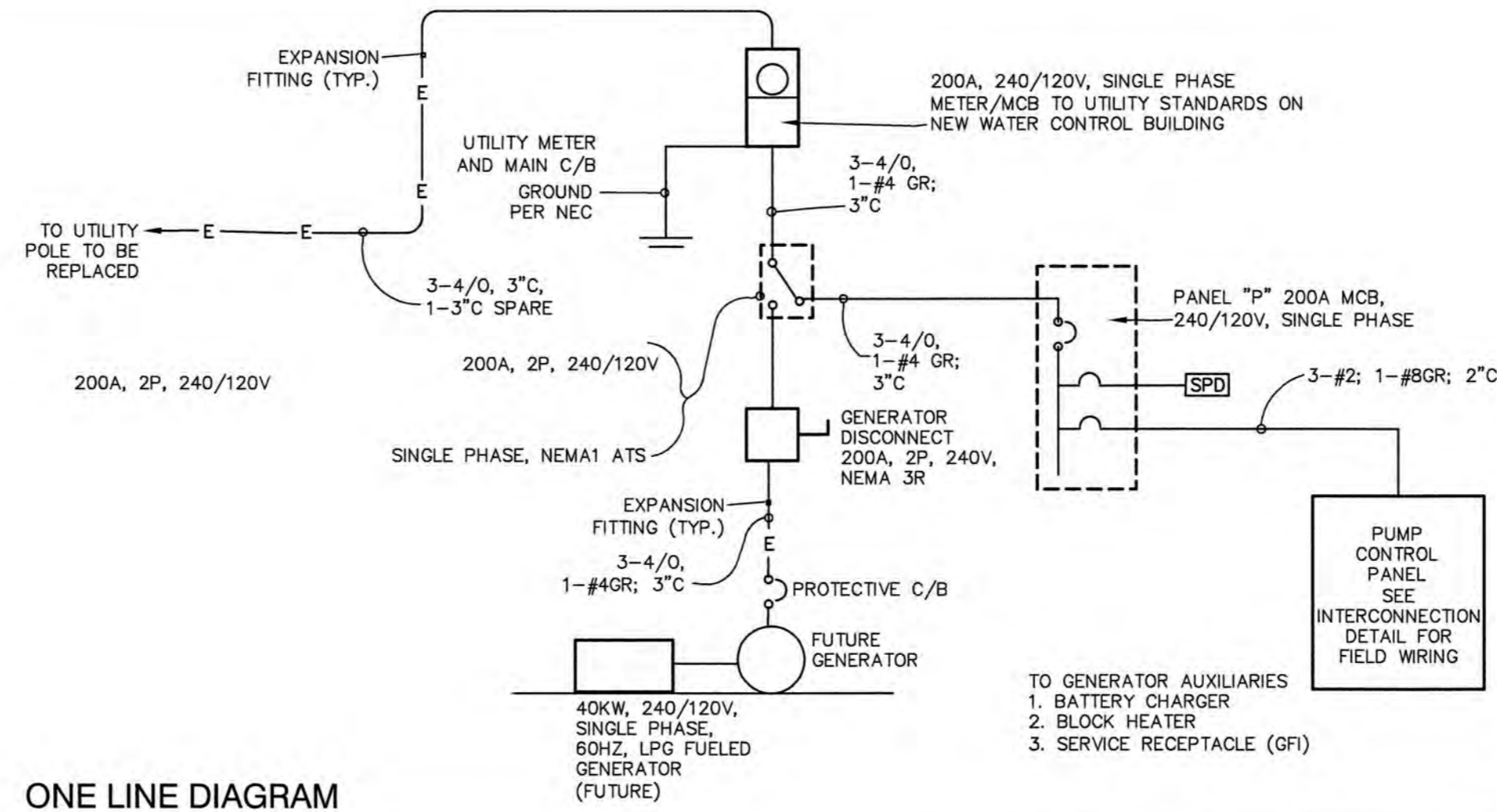
NOT TO SCALE

WATER FLOW METER INTERCONNECTION (TYP. FOR 5)



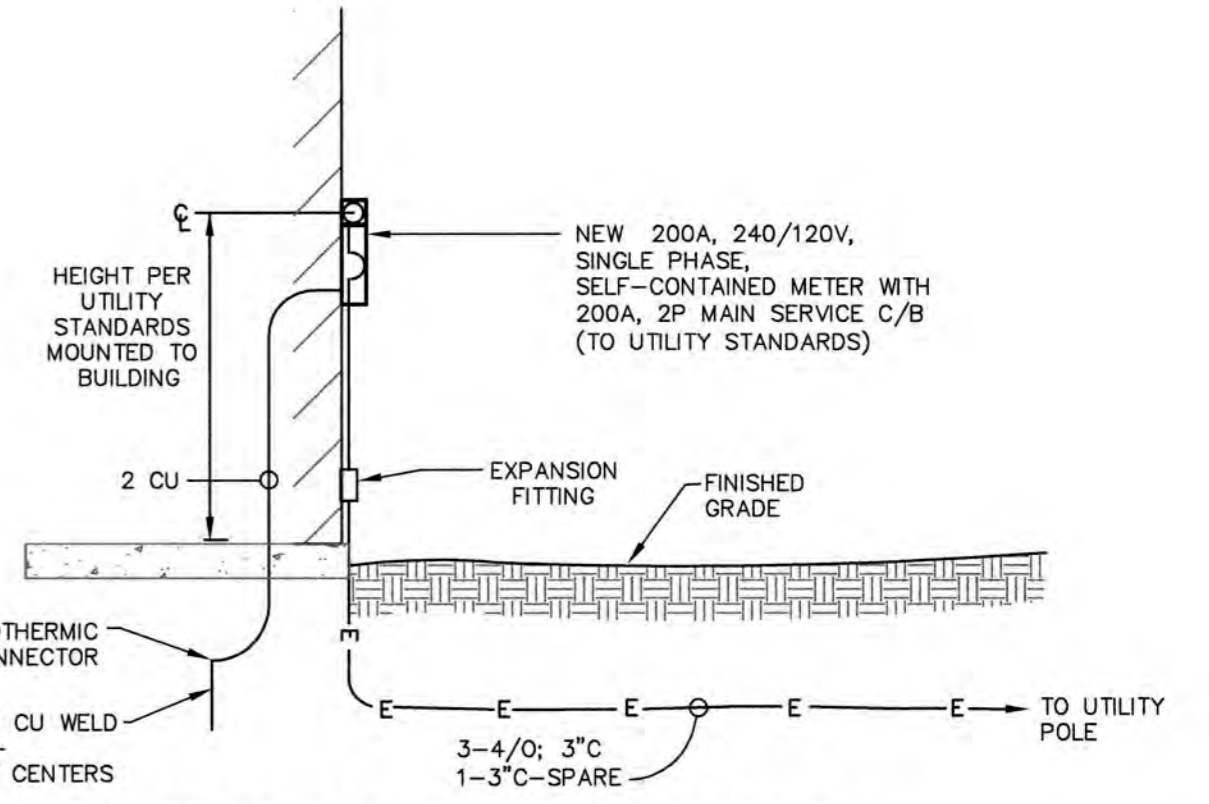
HYDRO TANK PRESSURE TRANSDUCER INTERCONNECTION

NOT TO SCALE



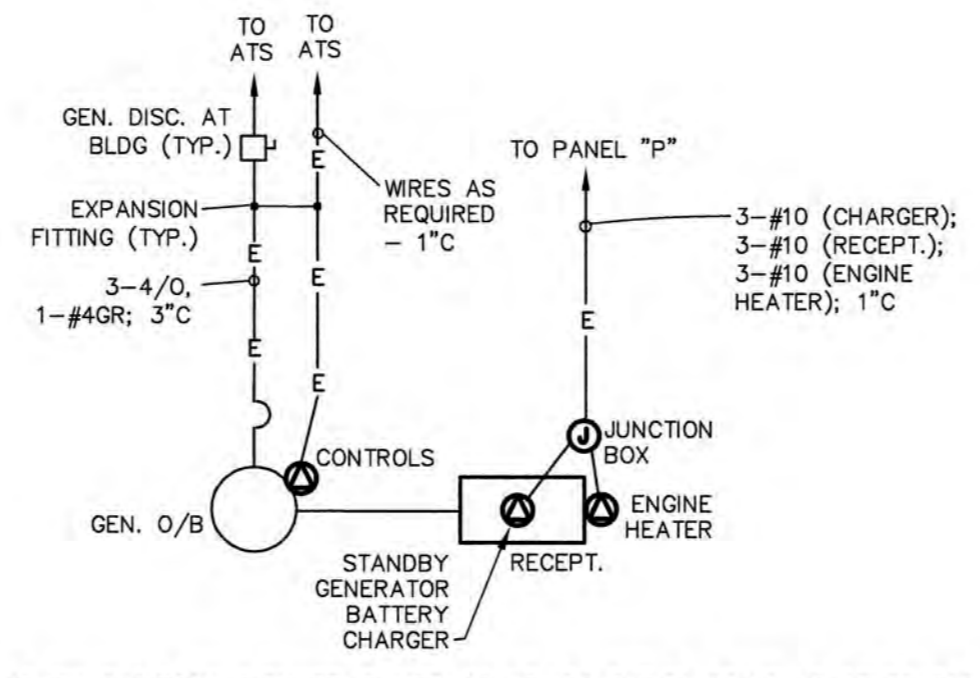
ONE LINE DIAGRAM

NOT TO SCALE



TYPICAL NEW SERVICE METER DETAIL (1 REQUIRED)

NOT TO SCALE



GENERATOR INTERCONNECTION DIAGRAM (ALTERNATE BID)

GENERATOR INTERCONNECTION DIAGRAM (ALTERNATE BID)

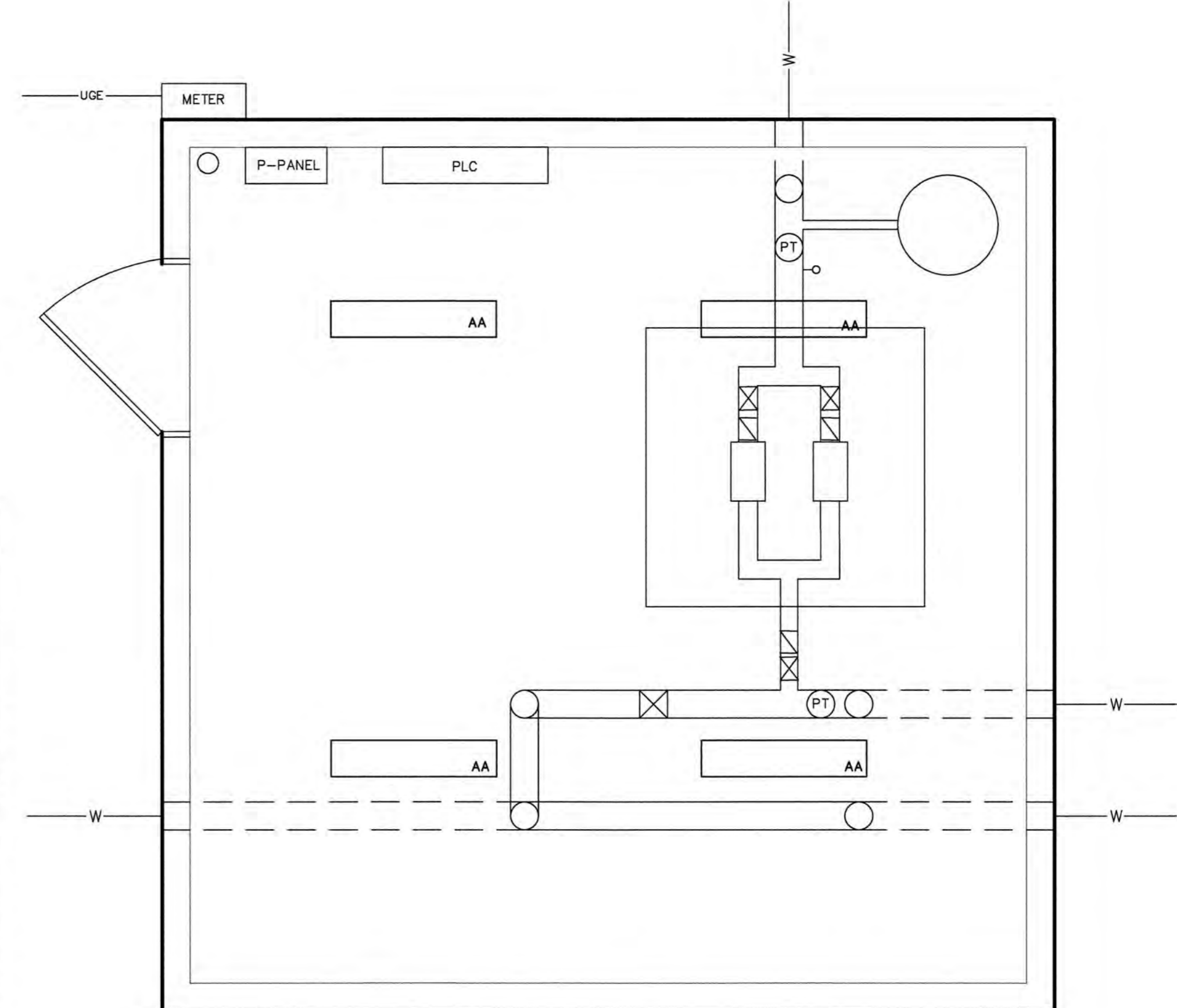
NOT TO SCALE

PANEL SCHEDULE PANELBOARD "P"

200 AMP, MCB, 240/120 VOLT, SINGLE PHASE, 3 WIRE, 60 HERTZ SURFACE MOUNTED

CIRCUIT #	NO. POLES	RATING	CIRCUIT DESCRIPTION	LOAD
1,3	2	***	SPD	-
2,4	2	100*	PUMP CONTROL PANEL	14.5
5,7	2	40	EUH	7.5
6	1	20*	LIGHTING	0.5
8	1	20	SERVICE RECEPT.	0.8
9	1	20	DEHUMIDIFIER RECEPT.	1.5
10	1	15*	FLOW METER	0.5
11	1	20*	SECURITY	0.7
12	1	20*	PROCESS RECEPT.	0.7
13	1	20	GENERATOR ENGINE HEATER (ALT. BID)	1.5
14	1	20	GENERATOR SERVICE RECEPT. (ALT. BID)	1.5
15	2	20*	GENERATOR BATTERY CHARGER (ALT. BID)	0.5
16	1	20	SCADA	0.7
17		20	SPARE	
18		20	SPARE	
19-42			SPACE FOR FUTURE	

* PROVIDE HANDLE LOCK ON CIRCUITS
** RATING PER SPD MANUFACTURER RECOMMENDATION



PUMP HOUSE ELECTRICAL PLAN

SCALE: 1"=2'

Design: CSA | Draft: AMJ | Date: 06/20/2019
 Checked: CSA | Scale: AS SHOWN | Project No.: 19078
 Drawing Name: 19078-PLAN.dwg
 THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



REV.	DATE	REVISION	BY
0	2/3/20	ISSUED CONTRACT 2	PSL

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Plan Name: **ELECTRICAL DETAIL SHEET**
 Project: **VILLAGE DISTRICT OF EIDELWEISS CONTRACT 2 - WATER SYSTEM UPGRADES**
 Owner of Record: **ADAM LEISER, COMMISSIONER**
 1680 CONWAY ROAD, PO BOX 1027, MADISON, NH 03849

DRAWING No. **E1**
 SHEET 11 OF 11
 JBE PROJECT NO. 19078

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