

# RIDGEFIELD HIGH AND MIDDLE SCHOOL INTERCONNECTION

## RIDGEFIELD, CONNECTICUT

### CONTRACT DRAWING

#### GENERAL NOTES:

- BASE MAPPING WAS PREPARED FROM FIELD WORK CONDUCTED BY SNYDER CIVIL ENGINEERING, LLC IN JUNE OF 2022 AND SUPPLEMENTED WITH INFORMATION FROM THE FOLLOWING MAPS:
  - USGS HIGH-RESOLUTION ORTHO IMAGERY
  - "WATER MAIN REPLACEMENT PROJECTS 2020 - BID GROUP 24 CRAIGMOOR ROAD WATER MAIN REPLACEMENT, RIDGEFIELD, CONNECTICUT, CONTRACT DRAWING, MARCH 2020, REVISED 04-17-2020, PREPARED FOR: AQUARION WATER COMPANY OF CT, PREPARED BY: SNYDER CIVIL ENGINEERING, LLC"
  - TOWN OF RIDGEFIELD, CONNECTICUT, MIDDLE SCHOOL PUMP STATION AND FORCE MAIN, STATE PROJECT NO. 118-044N, NORTH SALEM ROAD (RTE. 116), 14 MARCH 2001, REVISIONS 1/24/03, METCALF & EDDY "

- REFERENCE FOR THE LOCATION OF SUBSURFACE OR UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE FOLLOWING:

ELECTRIC - NONE  
STORM DRAINAGE - FIELD LOCATION AND MAPPING PROVIDED BY THE TOWN OF RIDGEFIELD  
WATER - FIELD LOCATION AND MAPPING PROVIDED BY AWC  
SANITARY SEWER - MAPPING PROVIDED BY THE TOWN OF RIDGEFIELD  
COMMUNICATIONS - FIELD LOCATION  
GAS - NONE

- THE LOCATION OF ALL SUBSURFACE OR UNDERGROUND UTILITIES AND STRUCTURES INCLUDING BUT NOT LIMITED TO PIPES, CABLES AND CONDUITS ARE NOT GUARANTEED TO BE EXACT, NOR IS IT GUARANTEED THAT ALL UNDERGROUND OR SUBSURFACE ITEMS ARE SHOWN.

- THE EXACT TYPE, SIZE, LOCATION AND DEPTH OF EXISTING WATER MAINS IS UNKNOWN. THE EXISTING WATER MAINS ON THIS PLAN ARE SHOWN FOR SCHEMATIC PURPOSES ONLY BASED ON THE BEST AVAILABLE INFORMATION OBTAINED BY FIELD LOCATION AND MAPPING AND INFORMATION PROVIDED BY AQUARION WATER COMPANY.

- MINIMUM WATER MAIN SANITARY INSTALLATION CLEARANCES ARE LISTED AS FOLLOWS:

FOR WATER MAINS INSTALLED BELOW SANITARY SEWERS OR STORM DRAINS - 18" VERTICAL CLEARANCE

FOR WATER MAINS INSTALLED ABOVE SANITARY SEWERS OR STORM DRAINS - 12" VERTICAL CLEARANCE

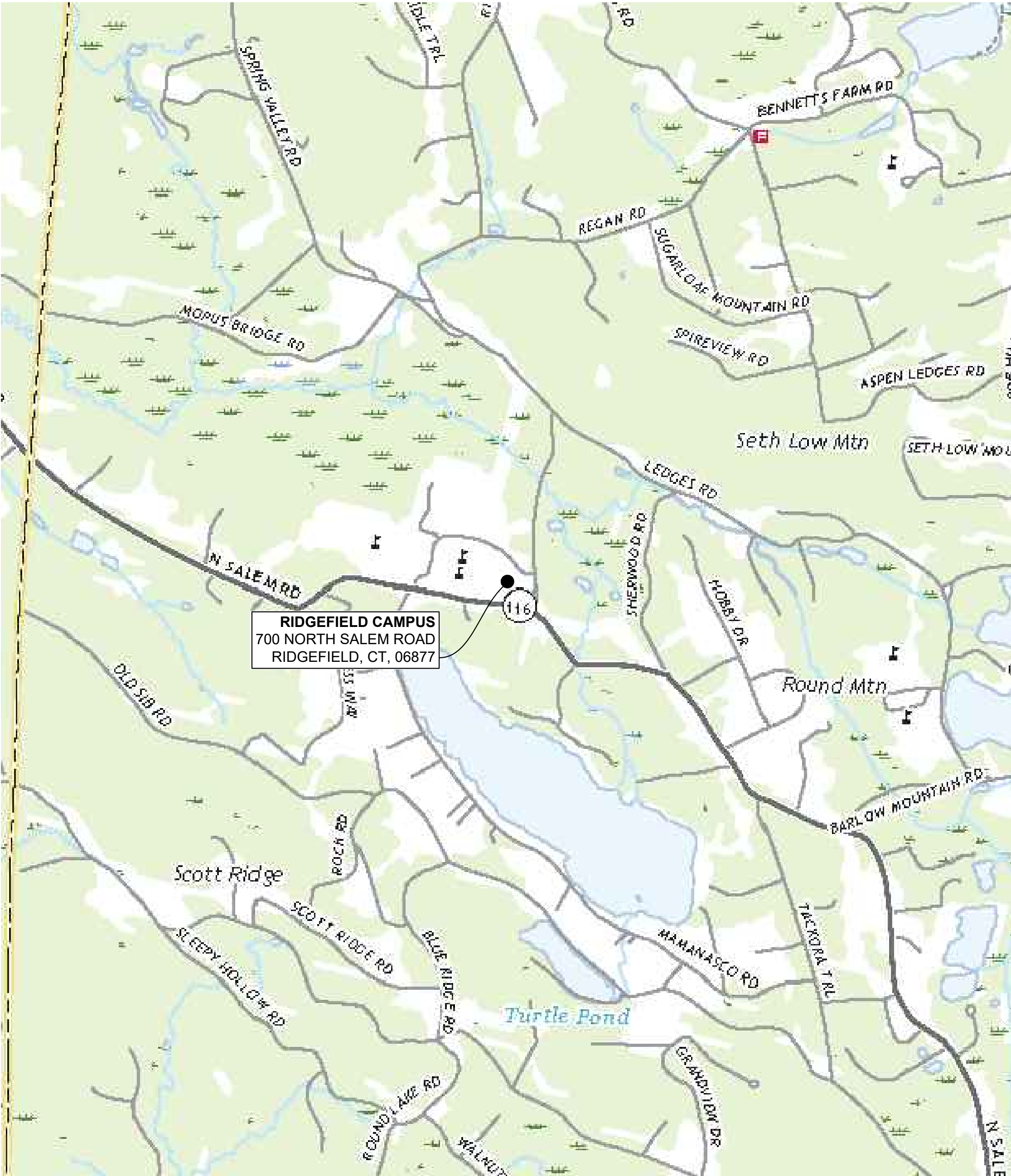
IF MINIMUM INSTALLATION CLEARANCES CANNOT BE MET, THE CONTRACTOR SHALL

- NOTIFY THE ENGINEER
- PROVIDE A WATER TIGHT SEAL AT JOINTS WITHIN 10' OF THE CROSSING USING A PIPE JOINT REPAIR CLAMP OR MECHANICAL JOINT
- INSTALL A 2" RIGID INSULATION PROTECTIVE BARRIER BETWEEN THE WATER MAIN AND SEWER OR STORM DRAIN

- ALL SURFACE RESTORATION INCLUDING PAVEMENT, CURBING, LANDSCAPING, PLANTING AND TREE REPLACEMENT SHALL BE COORDINATED WITH THE PROPERTY OWNERS AND THE TOWN OF RIDGEFIELD.

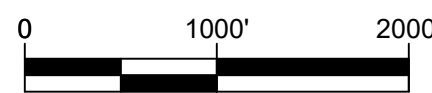
- ALL VALVES OUTSIDE THE VAULT SHALL BE OPEN RIGHT (OTR).

\*ELEVATION DATUM - NAVD 88 (IN FEET)



#### LOCATION PLAN

SCALE: 1" = 1000'



#### SHEET DIRECTORY

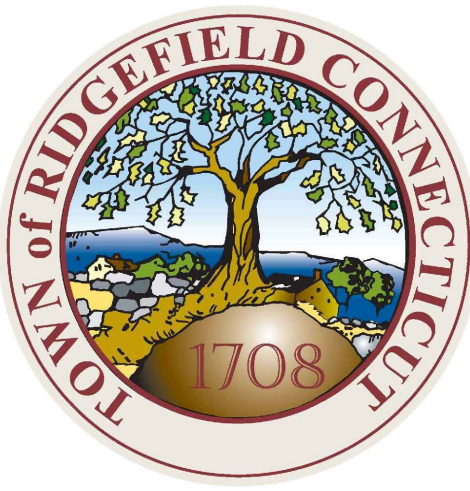
SHEET NO.	SHEET CONTENTS
1	SITE PLAN
2	METER VAULT PLAN, SECTION AND DETAILS
3	EXISTING WATER TREATMENT BUILDING LAYOUT AND DISCONNECTION PLAN AND EXISTING SECTION A-A PIPING ELEVATION VIEW
4	EXISTING FIRE PUMP HOUSE AND CONNECTION PLAN, SECTION A-A VIEW, AND LIMITED ONE LINE DIAGRAM
5	SITE DETAILS

#### LEGEND

CATCH BASIN	ROCK/BOULDER	STONE WALL	VALVE	TEE
STREET SIGN	SURVEY CONTROL POINT	COMM. LINE	HYDRANT	VERTICAL BEND
MAILBOX	SPOT ELEVATION	ELEC. LINE	CURB BOX	90° ELBOW
SHRUB/BUSH	IRON PIN/PIPE	SANITARY SEWER MAIN	WATER METER	45° ELBOW
VALVE	CONIFEROUS TREE	WATER MAIN	REDUCER	22-1/2° ELBOW
HYDRANT	DECIDUOUS TREE	GAS MAIN	COUPLING OR SLEEVE	THRUST BLOCK / COLLAR
CURB VALVE	TREE STUMP	TRAFFIC CTRL LINE	ENDCAP	INSERTION VALVE
WATER METER	UTILITY POLE W/ GUY WIRE	TREELINE/ BRUSHLINE	BLOW-OFF OR AIR VENT	11-1/4° ELBOW
LIGHT POST	GARDEN	PROPERTY LINE		
MANHOLE	TRAFFIC LOOP	STORM DRAIN PIPE		
FENCE	CROSS WALK	RETAINING WALL		
		SHRUB ROW		
			WATER MAIN	
			SERVICE LINE	

NOTE:  
• EXISTING FEATURES ARE DRAWN IN THIN LIGHT GREY, PROPOSED FEATURES ARE DRAWN BOLD AND LIGHT BLUE AND BLACK.  
• ALL DRAIN PIPE AND SANITARY SEWER ELEVATIONS SHOWN WITH MULTILEADERS ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED

PREPARED FOR:



TOWN OF RIDGEFIELD  
400 MAIN STREET  
RIDGEFIELD, CT 06877

PREPARED BY:



SNYDER CIVIL ENGINEERING, LLC  
150 MARLBOROUGH STREET  
PORTLAND, CT 06480





PORTLAND, CONNECTICUT

CONTRACT  
DRAWING

## SITE PLAN

SCALE AS NOTED

CHECKED

ZAK

YER

DRAWN

YER

DESIGNED

ZAK

PREPARED FOR:

TOWN OF  
RIDGEFIELD

Ridgefield, Connecticut

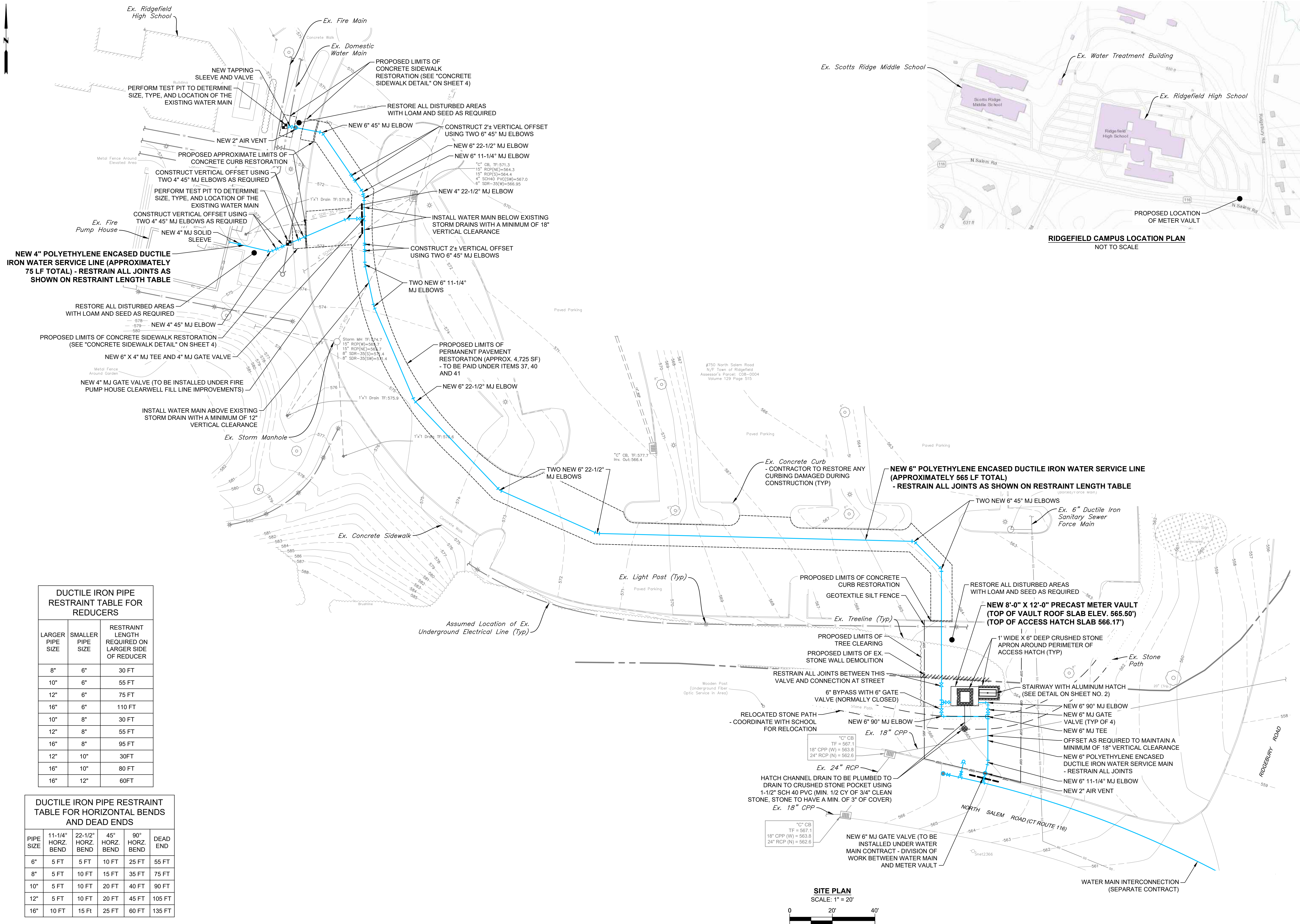
RIDGEFIELD HIGH AND MIDDLE  
SCHOOL INTERCONNECTION

Ridgefield, Connecticut

J U N E 2 0 2 5

SHEET NO. 1 OF 5

JOB NO. R F D - 0 0 1





CONTRACT  
DRAWING

MEIER VAULT PLAN, SECTION, AND DETAILS

	CHECKED	REVISED
	ZAK	

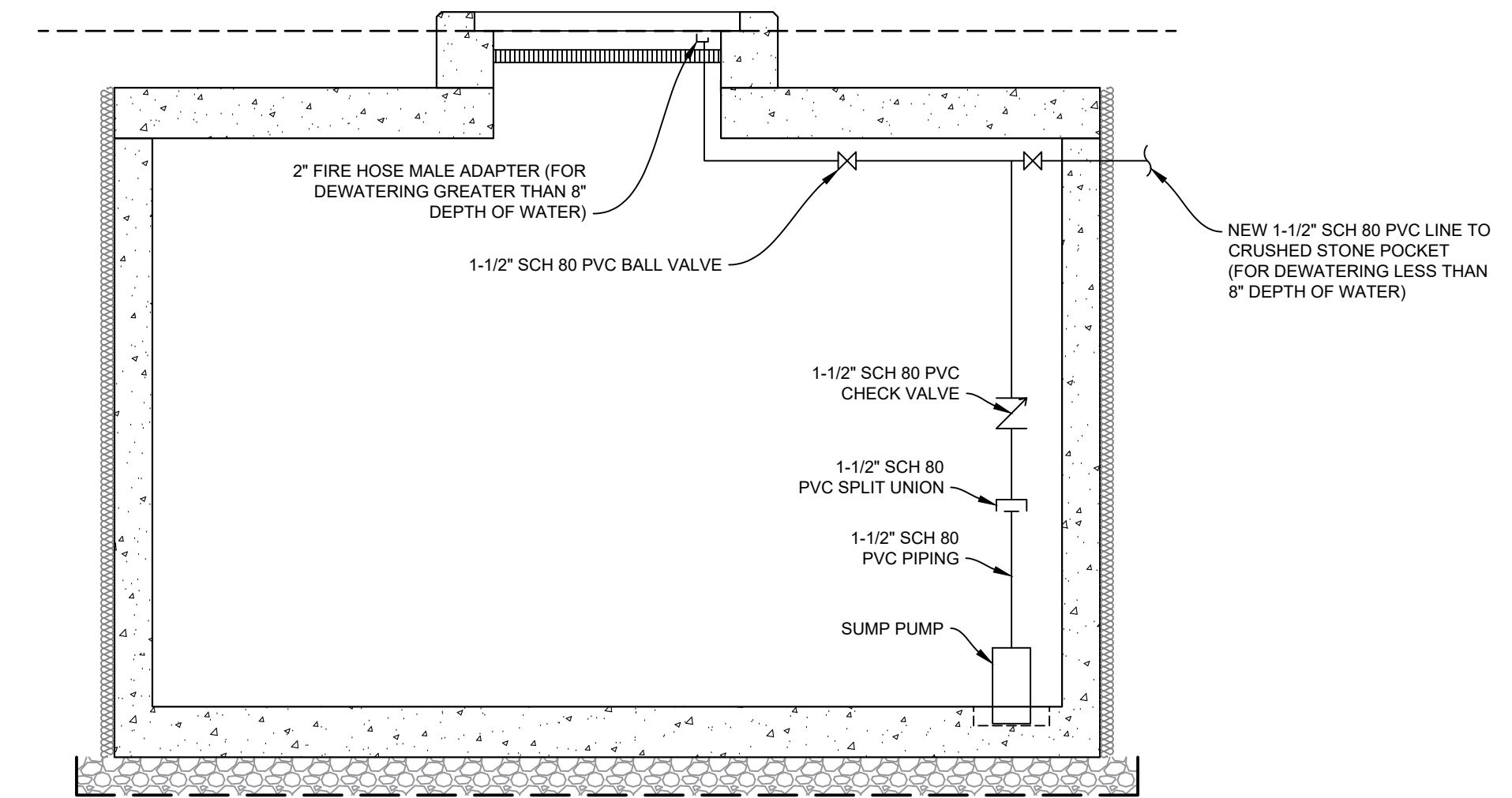
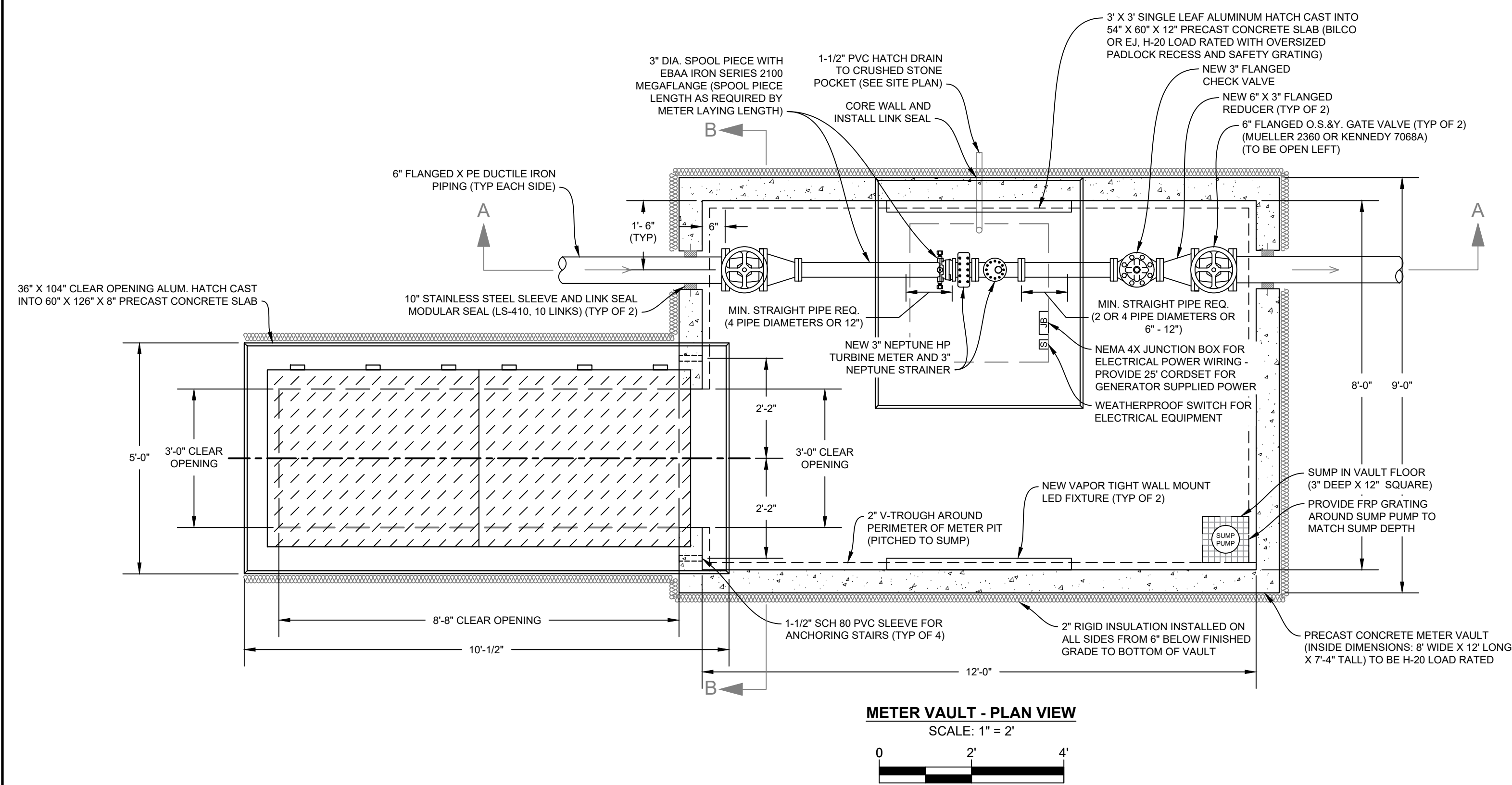
**DRAW**

DESIGNED  
ZAK

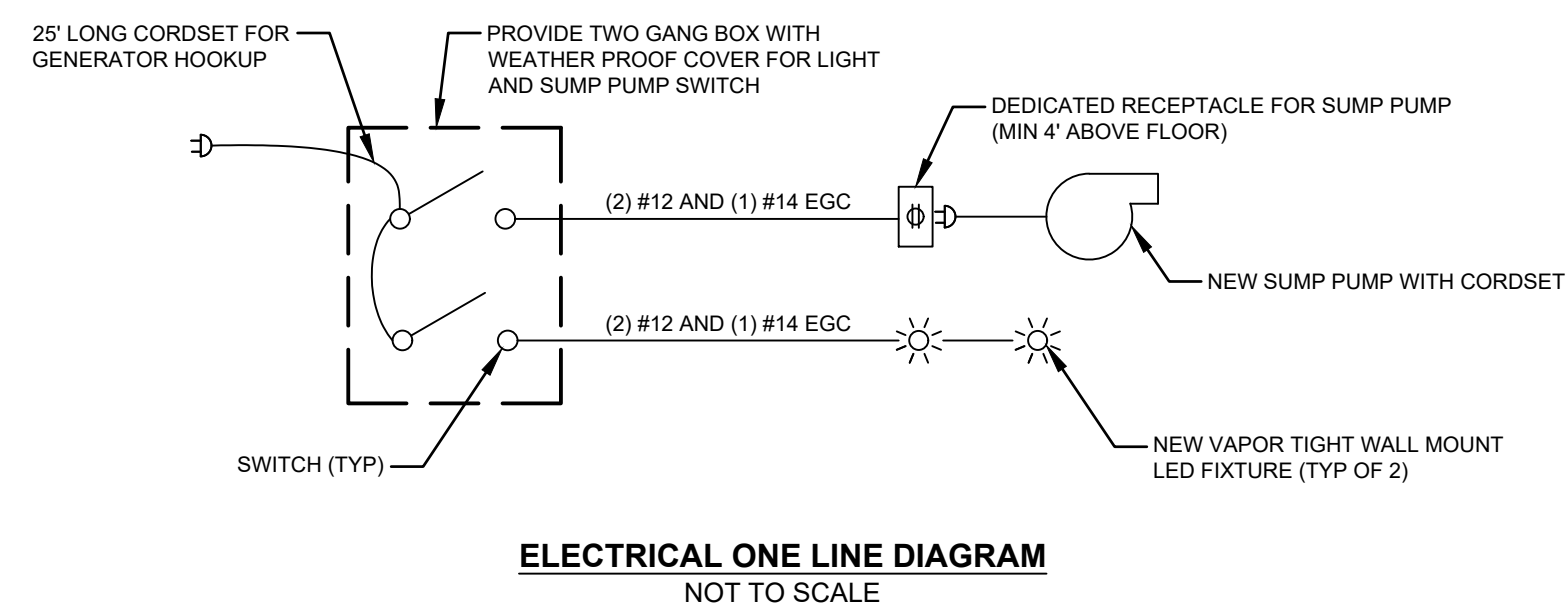
PREPARED FOR:  
TOWN OF  
RIDGEFIELD  
Ridgefield, Connecticut

Ridgefield, Connecticut

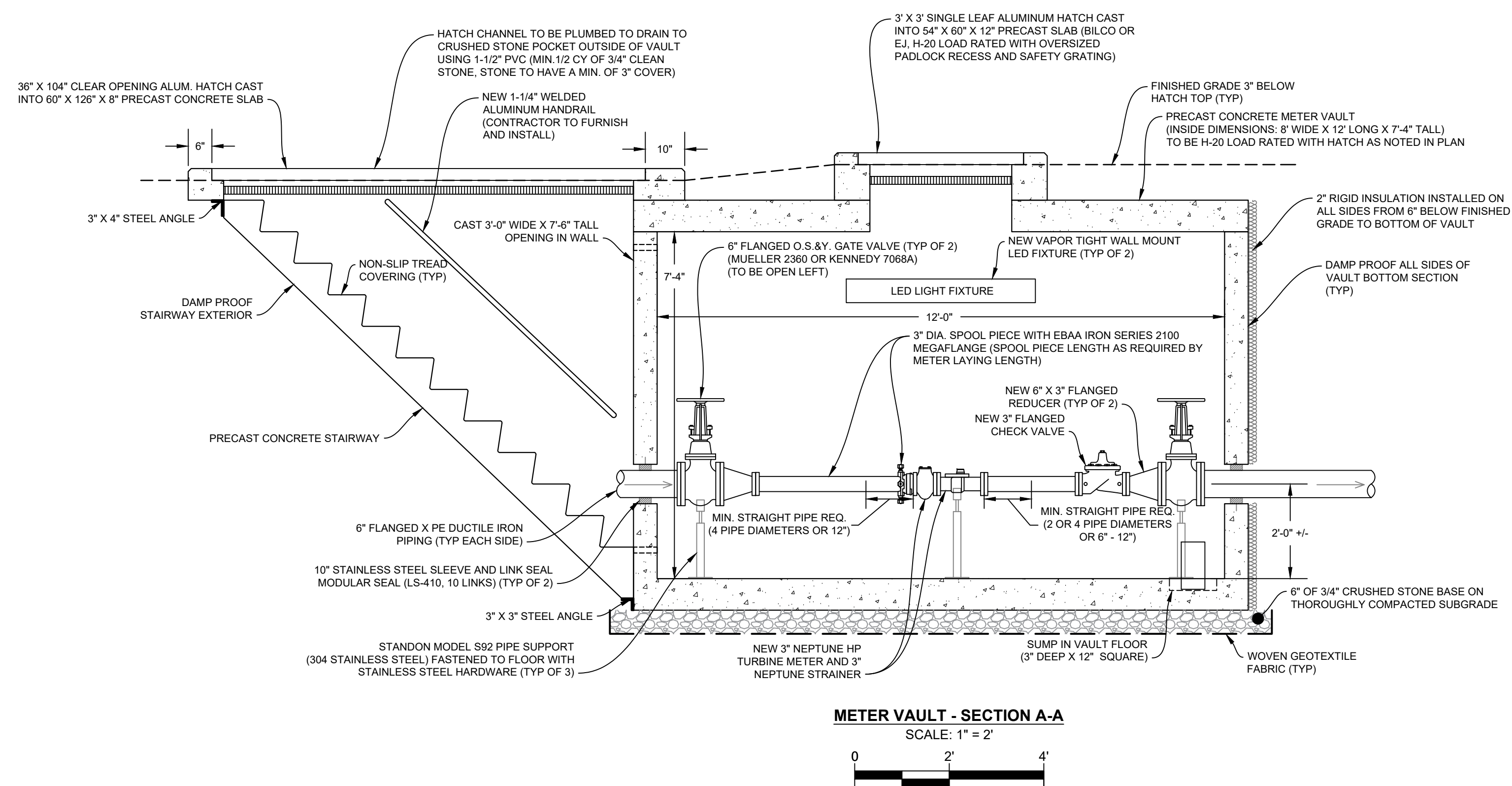
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SHEET NO. 2 OF 5  
JOB NO. R F D - 0 0 1



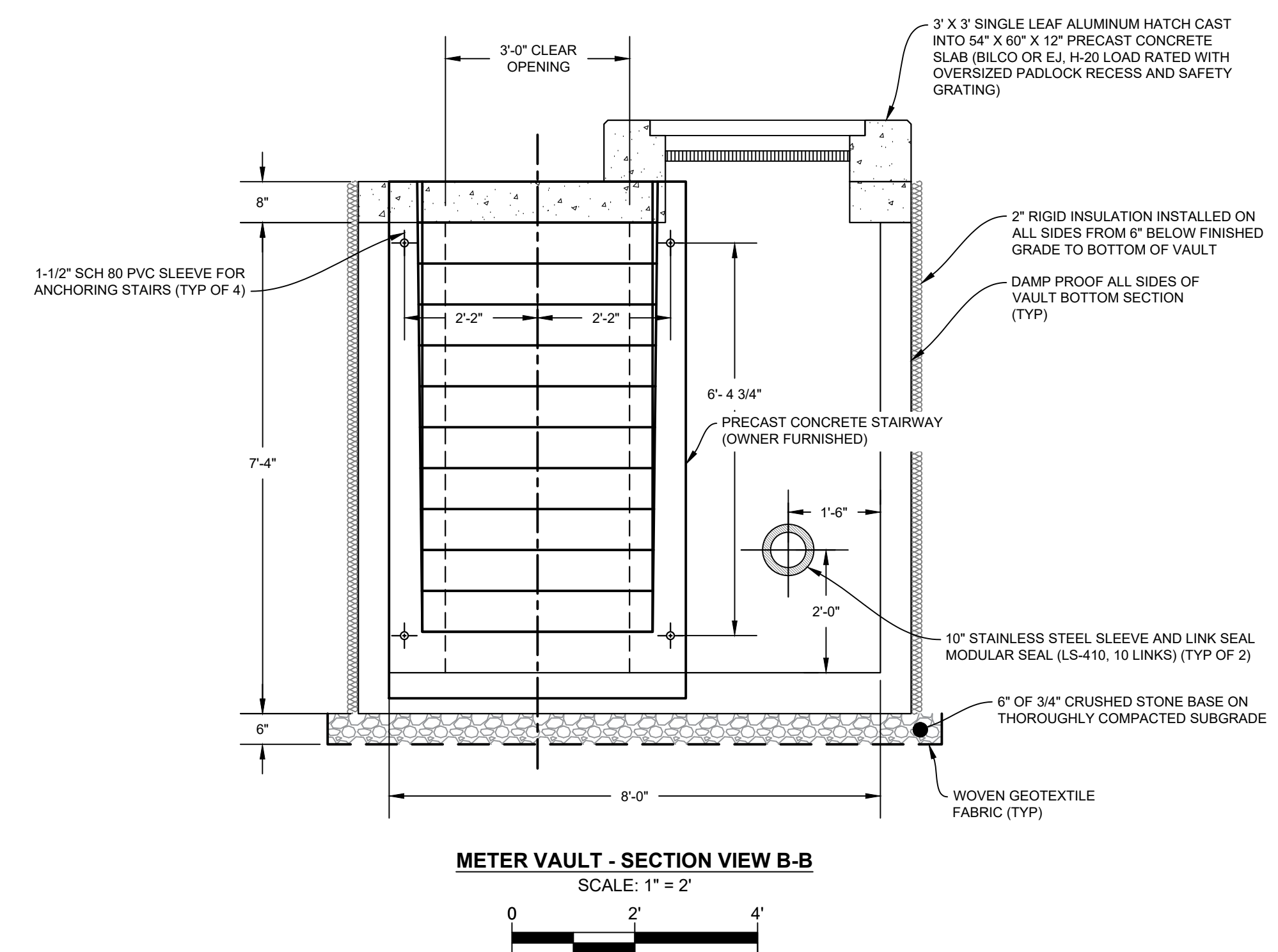
**SUMP PUMP DISCHARGE PIPING SCHEMATIC**  
NOT TO SCALE



**ELECTRICAL ONE LINE DIAGRAM**  
NOT TO SCALE



**METER VAULT - SECTION A-A**  
SCALE: 1" = 2'



**METER VAULT - SECTION VIEW B-B**  
SCALE: 1" = 2'

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EXISTING WATER TREATMENT BUILDING  
LAYOUT AND DISCONNECTION PLAN AND  
EXISTING SECTION A-A PIPING ELEVATION VIEW

REVISED

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ZAK  
YER

DRAWN  
YER

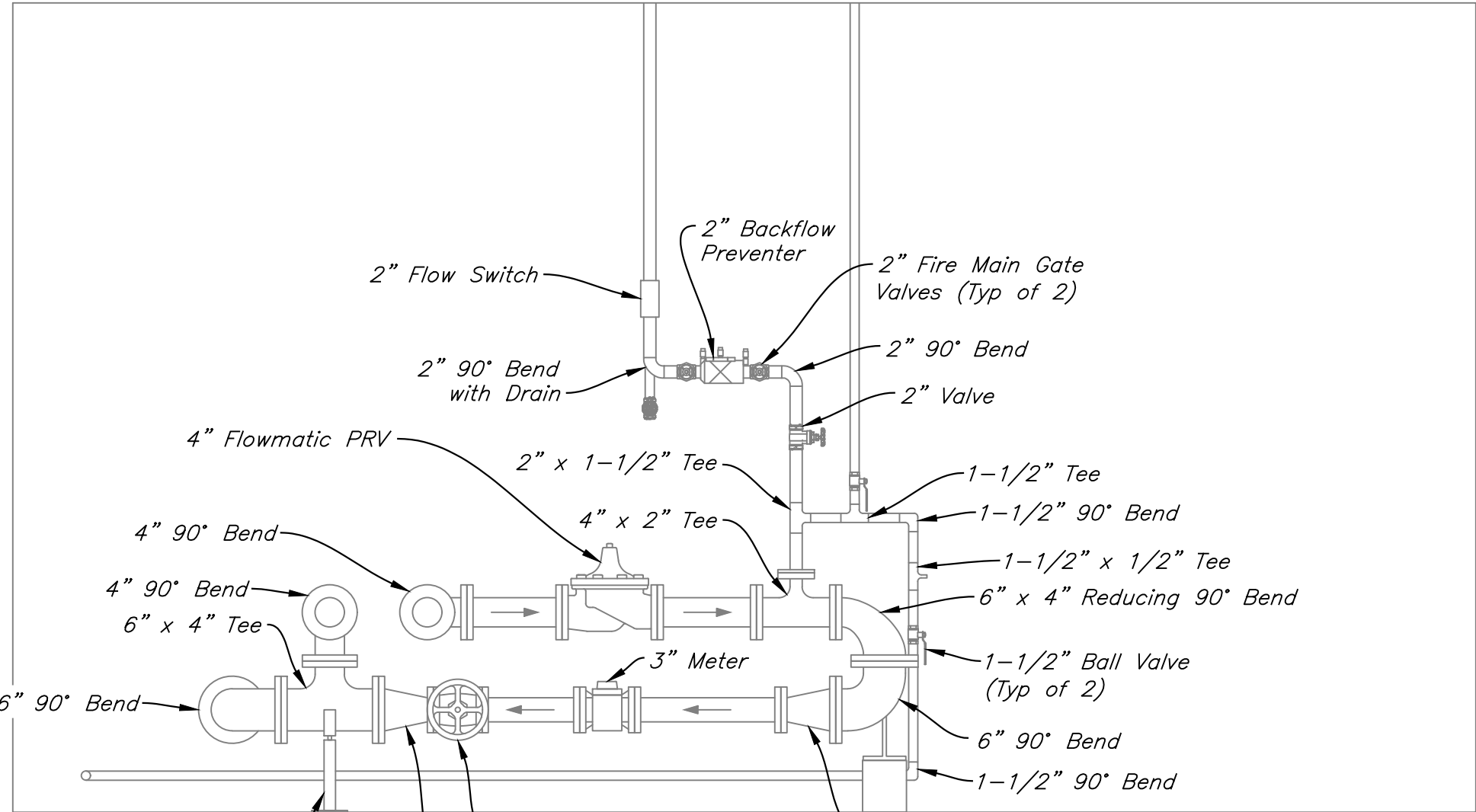
DESIGNED  
ZAK  
YER

PREPARED FOR:  
TOWN OF  
RIDGEFIELD  
Ridgefield, Connecticut

RIDGEFIELD HIGH AND MIDDLE  
SCHOOL INTERCONNECTION  
Ridgefield, Connecticut

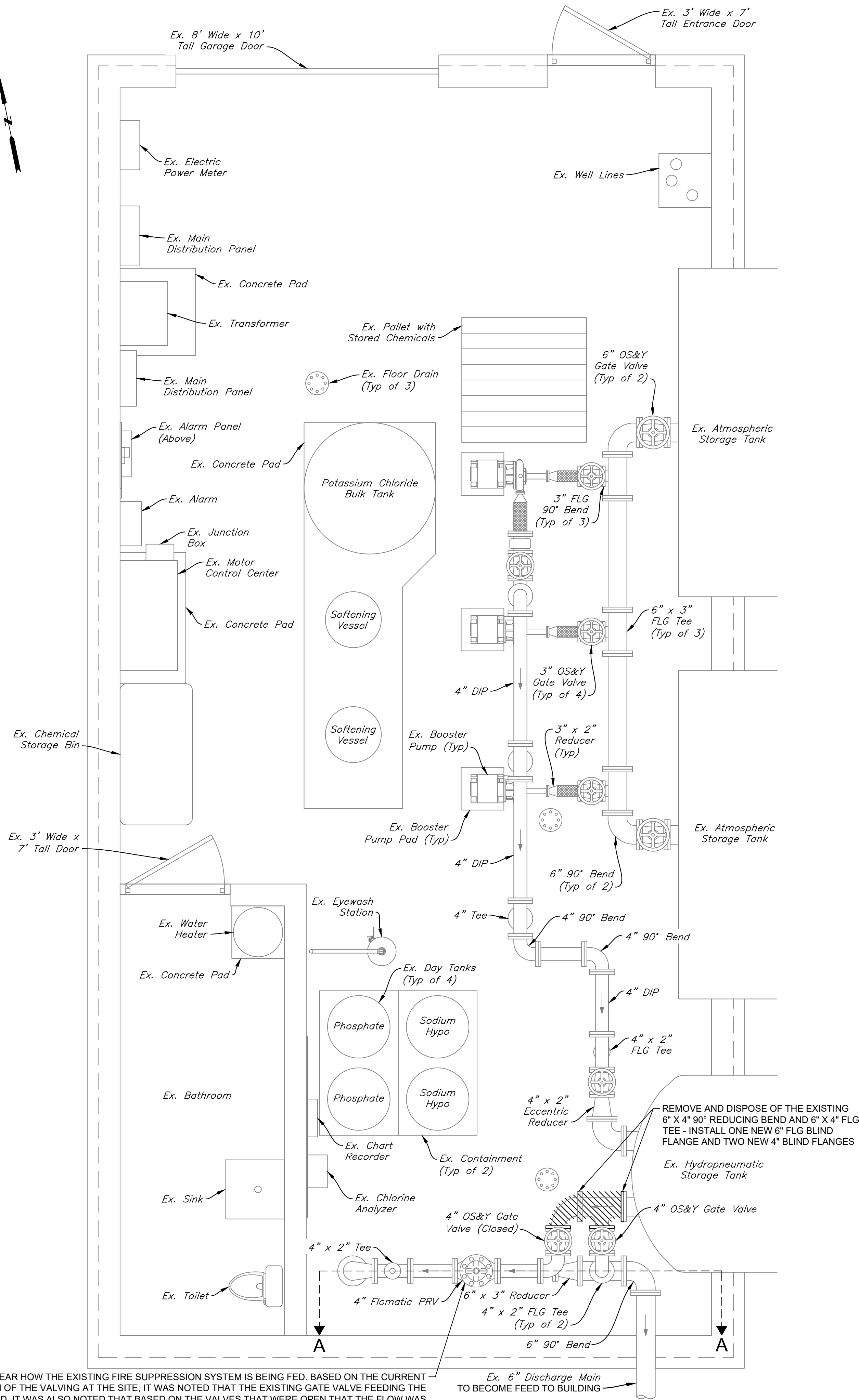
J U N E 2 0 2 5  
SHEET NO. 3 OF 5  
JOB NO. R F D - 0 0 1

- METER PIT COMMISSIONING AND WELL HOUSE DISCONNECTION PROCEDURE:**
1. INSTALL NEW WATER MAIN, METER PIT AND APPURTENANCES.
  2. COORDINATE WITH AWC FOR FILLING OF THE NEW WATER MAIN VIA THE INTERCONNECTION.
  3. PERFORM DISINFECTION AND TESTING OF WATER MAIN TO AWWA AND AWC STANDARDS. PROVIDE RESULTS TO AWC.
  4. ONCE THE WATER MAIN HAS PASSED WATER QUALITY TESTING, PERFORM HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH AWWA AND AWC STANDARDS.  
NOTE: SPOOL PIECE TO BE INSTALLED IN PLACE OF WATER METER DURING PRESSURE TESTING.
  5. NOTIFY AQUARION WATER COMPANY A MINIMUM OF TWO WEEKS IN ADVANCE OF THE PLANNED TRANSFER OF SERVICE. COORDINATE WITH AWC, SCHOOL STAFF, AND CONTRACTORS TO SCHEDULE TRANSFER OF SERVICE.
  6. ON THE SCHEDULED DAY FOR TRANSFER OF SERVICE:
    - a. USING TWO SEPARATE PARTIES, ONE AT THE NEW SERVICE AND ONE WITHIN THE WELL HOUSE, SIMULTANEOUSLY CLOSE THE EXISTING VALVES WITHIN THE WELL HOUSE AND OPEN THE VALVE AT THE NEW METER PIT.
    - b. ON THE SAME WORKDAY, TURN OFF ALL EQUIPMENT WITHIN THE WELL HOUSE, DRAIN THE HYDROPNEUMATIC WATER STORAGE TANK, REMOVE THE TEE AND ELBOW AND INSTALL BLIND FLANGES AS SHOWN ON THE PLAN.
  7. TOWN OF RIDGEFIELD TO DECOMMISSION WELL HOUSE AND EQUIPMENT AS REQUIRED.



SECTION A-A EXISTING PIPING ELEVATION VIEW

SCALE: 1" = 2'  
0 2' 4'



EXISTING WATER TREATMENT BUILDING LAYOUT AND DISCONNECTION PLAN

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

0 2' 4'

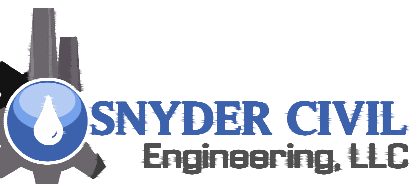
IT IS UNCLEAR HOW THE EXISTING FIRE SUPPRESSION SYSTEM IS BEING FED. BASED ON THE CURRENT CONFIGURATION OF THE VALVING AT THE SITE, IT WAS NOTED THAT THE EXISTING GATE VALVE FEEDING THE PRV WAS CLOSED. IT WAS ALSO NOTED THAT BASED ON THE VALVES THAT WERE OPEN THAT THE FLOW WAS IN THE OPPOSITE DIRECTION OF THE FLOW METER.

CONTRACT DRAWING









PORTLAND, CONNECTICUT

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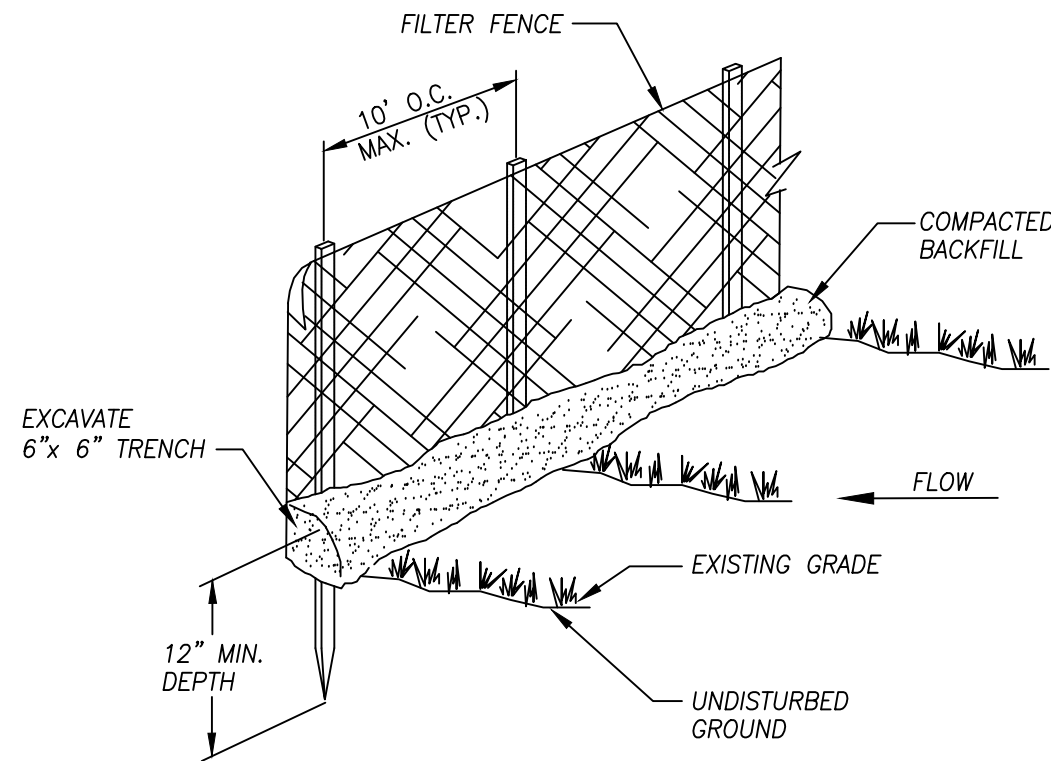
SITE DETAILS

SCALE AS NOTED	REVISED
	CHECKED ZAK YER
	DRAWN YER
DESIGNED ZAK	

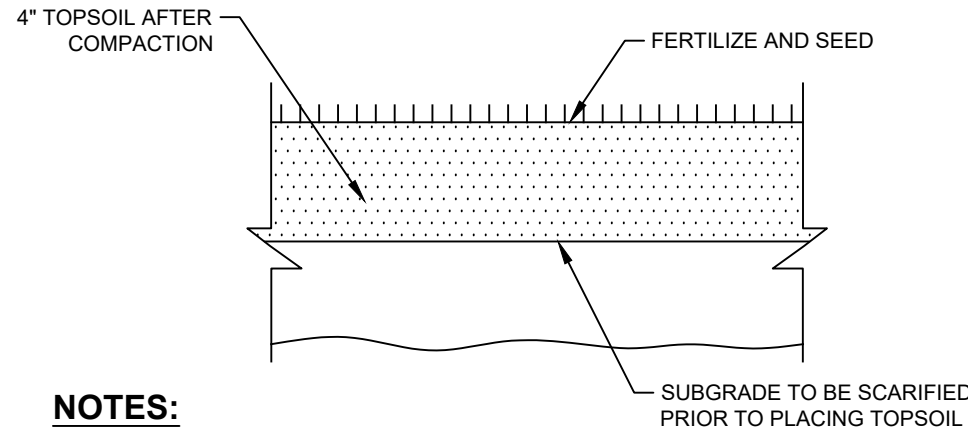
PREPARED FOR:  
AQUARION WATER  
COMPANY OF CT  
Bridgeport, Connecticut

RIDGEFIELD HIGH AND MIDDLE  
SCHOOL INTERCONNECTION  
Ridgefield, Connecticut

J U N E 2 0 2 5  
SHEET NO. 5 OF 5  
JOB NO. R F D - 0 0 1



SILT FENCE DETAIL  
NOT TO SCALE

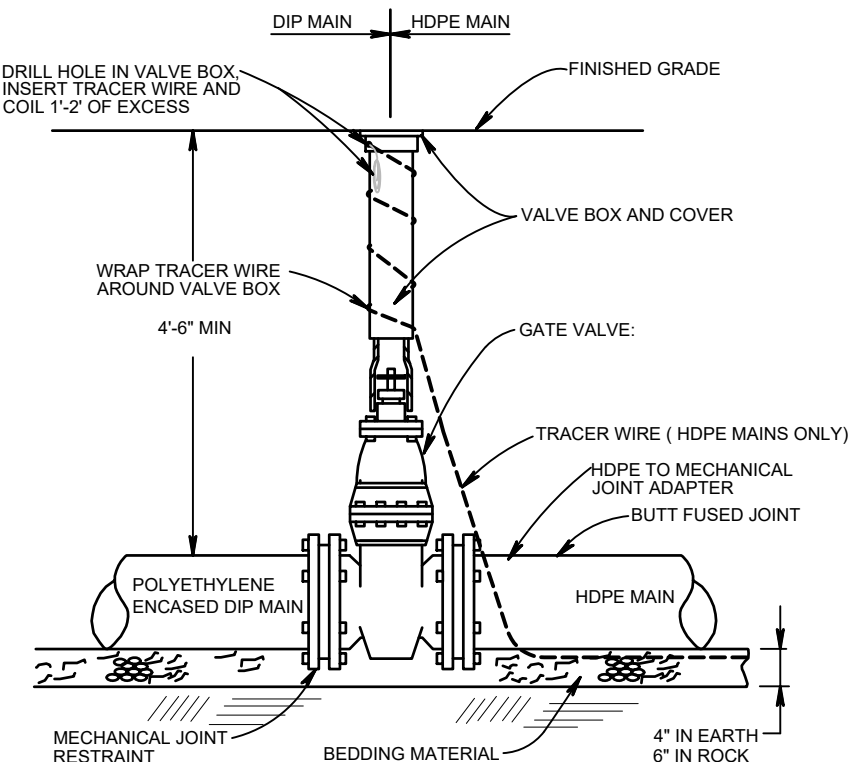


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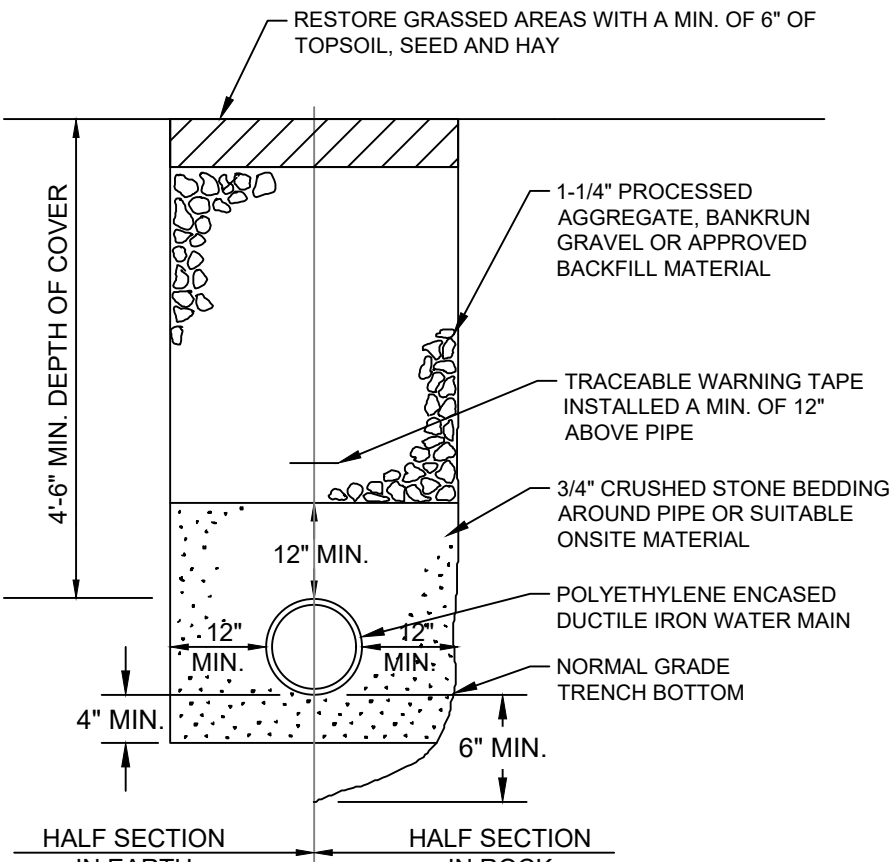
- THE PERMANENT SEED MIX FOR TURF ESTABLISHMENT IS AS FOLLOWS:

NAME	MINIMUM PROPORTION BY WEIGHT
KENTUCKY BLUEGRASS	45%
CREeping RED FESCUE	10%
PERENNIAL RYE GRASS	45%
- SEED SHALL BE APPLIED AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET. THE SEEDED AREA SHALL BE MULCHED WITH A LAYER OF GRASS, HAY OR STRAW AT A RATE OF 10 POUNDS PER 100 SQUARE FEET. THE SEEDED AREAS SHALL BE THOROUGHLY WATERED UNTIL SATISFACTORY STAND OF GRASS HAS BEEN ESTABLISHED.

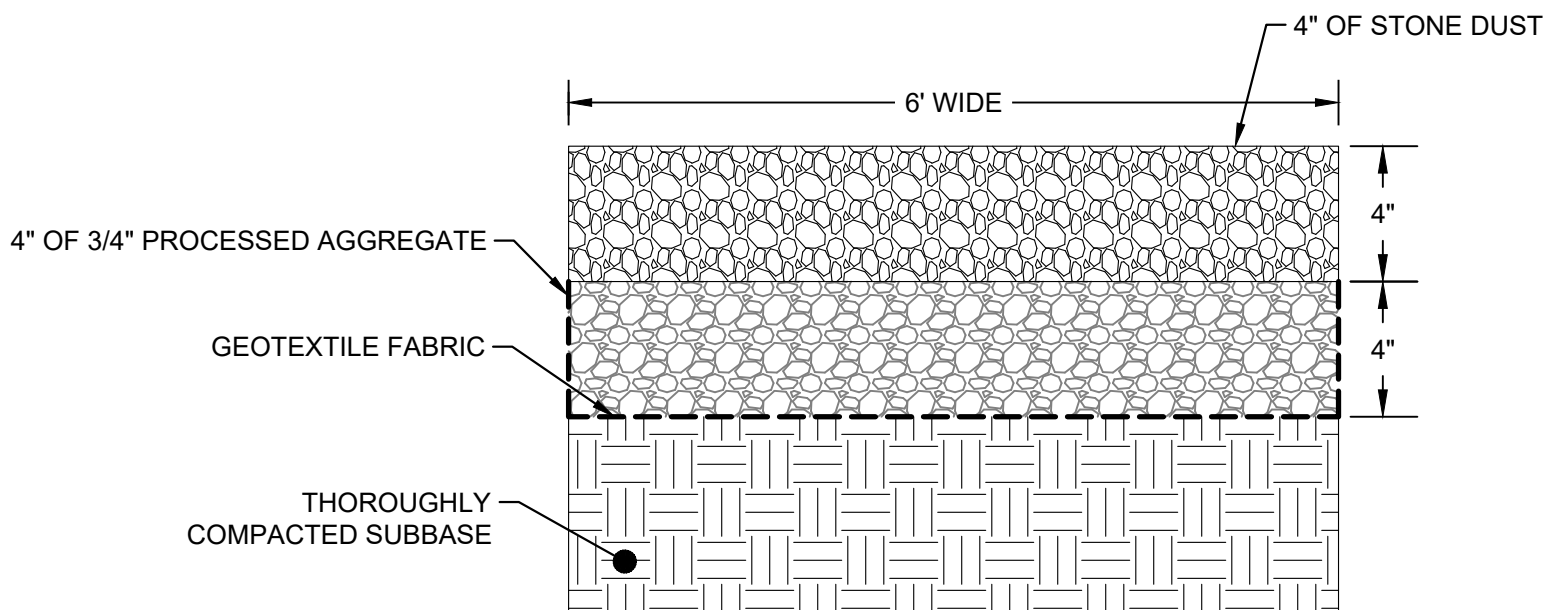
TURF ESTABLISHMENT  
NOT TO SCALE



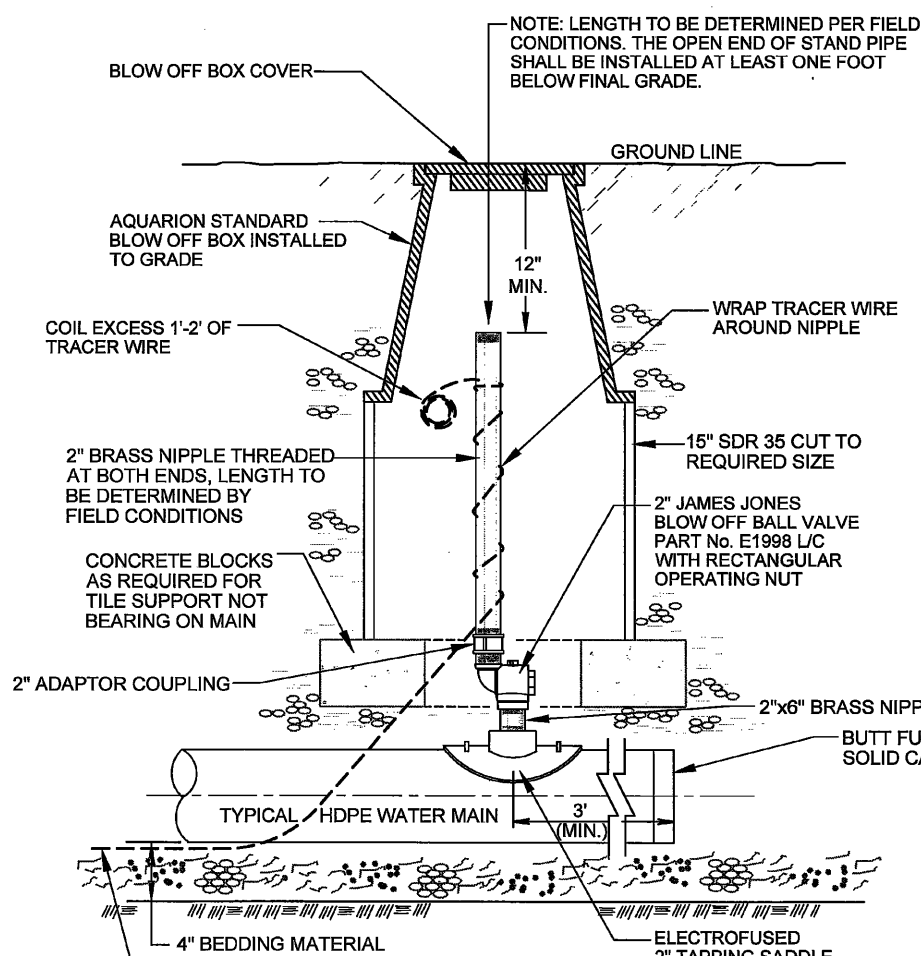
GATE VALVE DETAIL (AWC SD-2)  
NOT TO SCALE



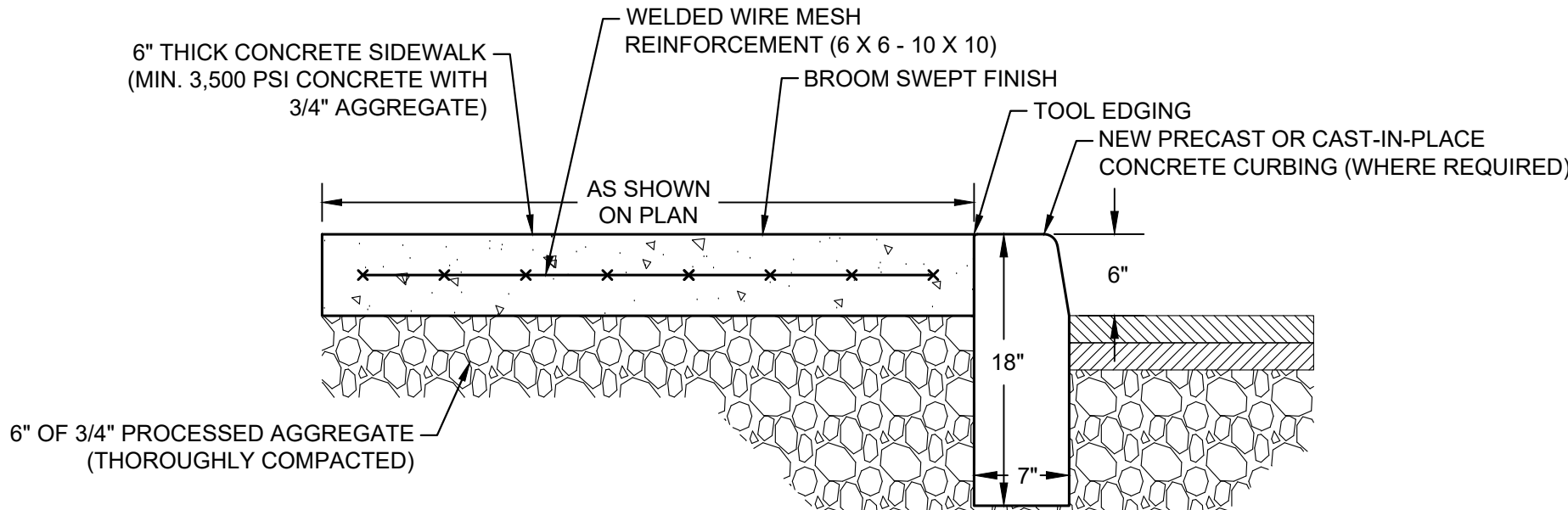
TYPICAL WATER MAIN TRENCH DETAIL  
NOT TO SCALE



COMPACTED STONE PATHWAY DETAIL  
NOT TO SCALE

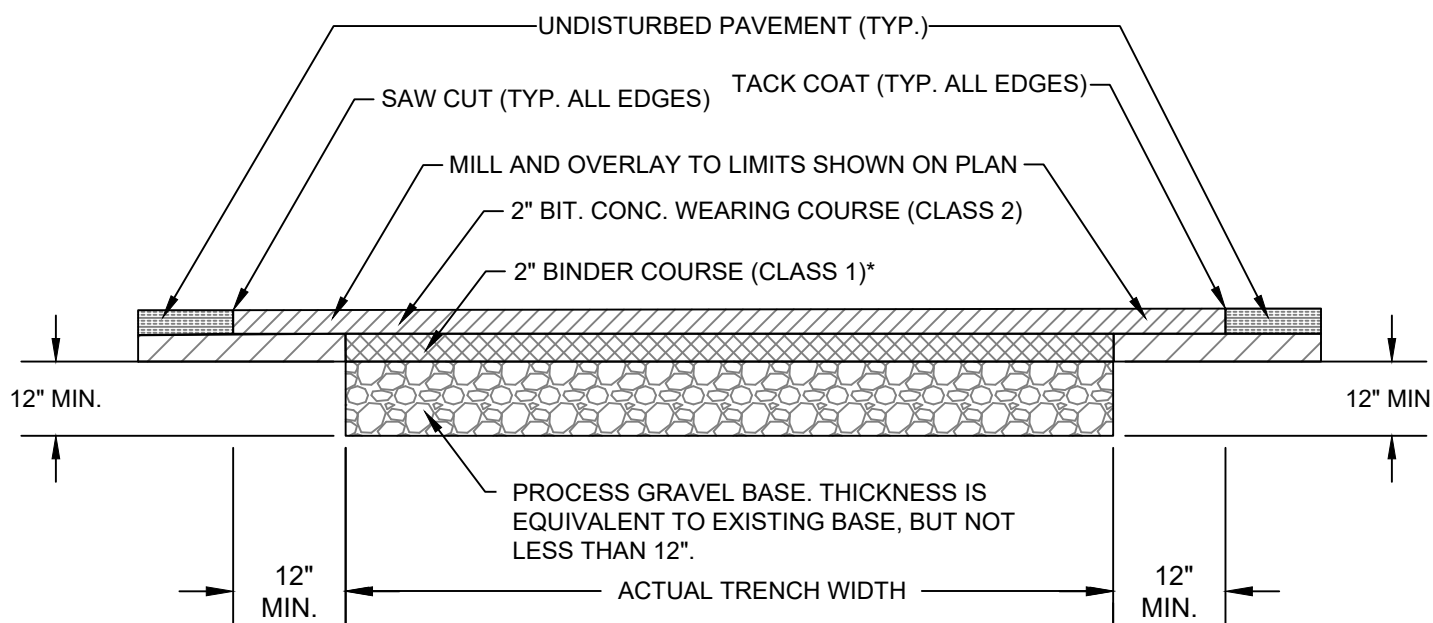


ON-LINE AIR VENT DETAIL (AWC SD-7)  
NOT TO SCALE

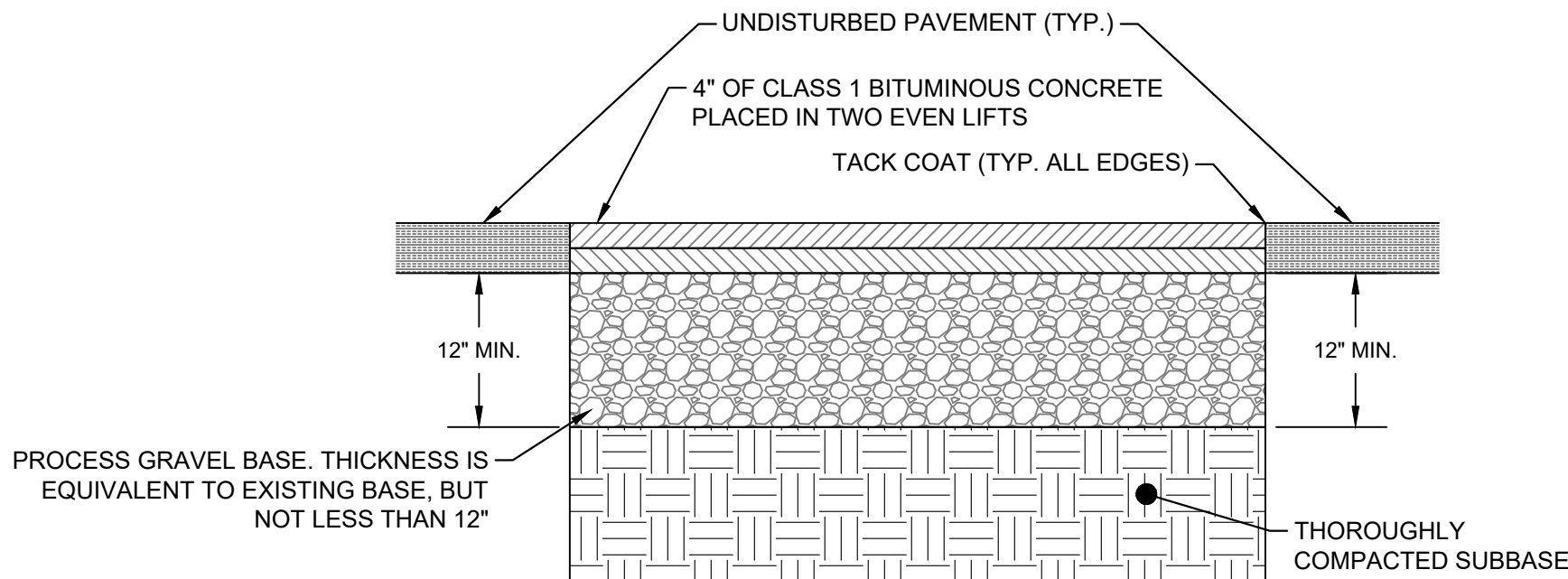


NOTE: EXPANSION JOINTS SHALL BE PROVIDED AT A MIN. 8' O.C. SPACING. DISTURBED SIDEWALK PANELS SHALL BE REPLACED IN FULL, TO NEAREST CONTROL JOINT

CONCRETE SIDEWALK DETAIL  
NOT TO SCALE



PERMANENT PAVEMENT RESTORATION DETAIL  
NOT TO SCALE



TEMPORARY PAVEMENT RESTORATION DETAIL  
NOT TO SCALE