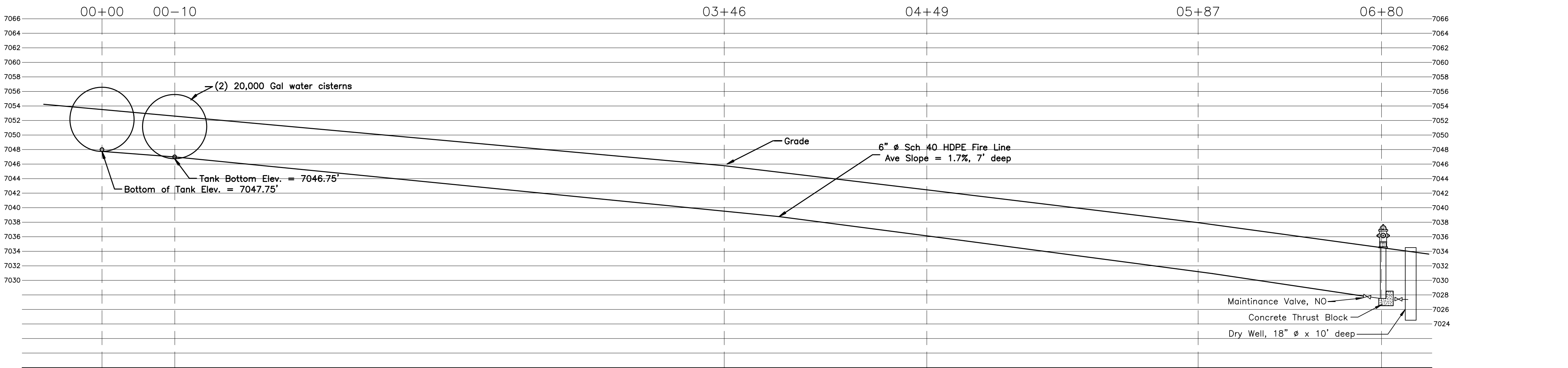
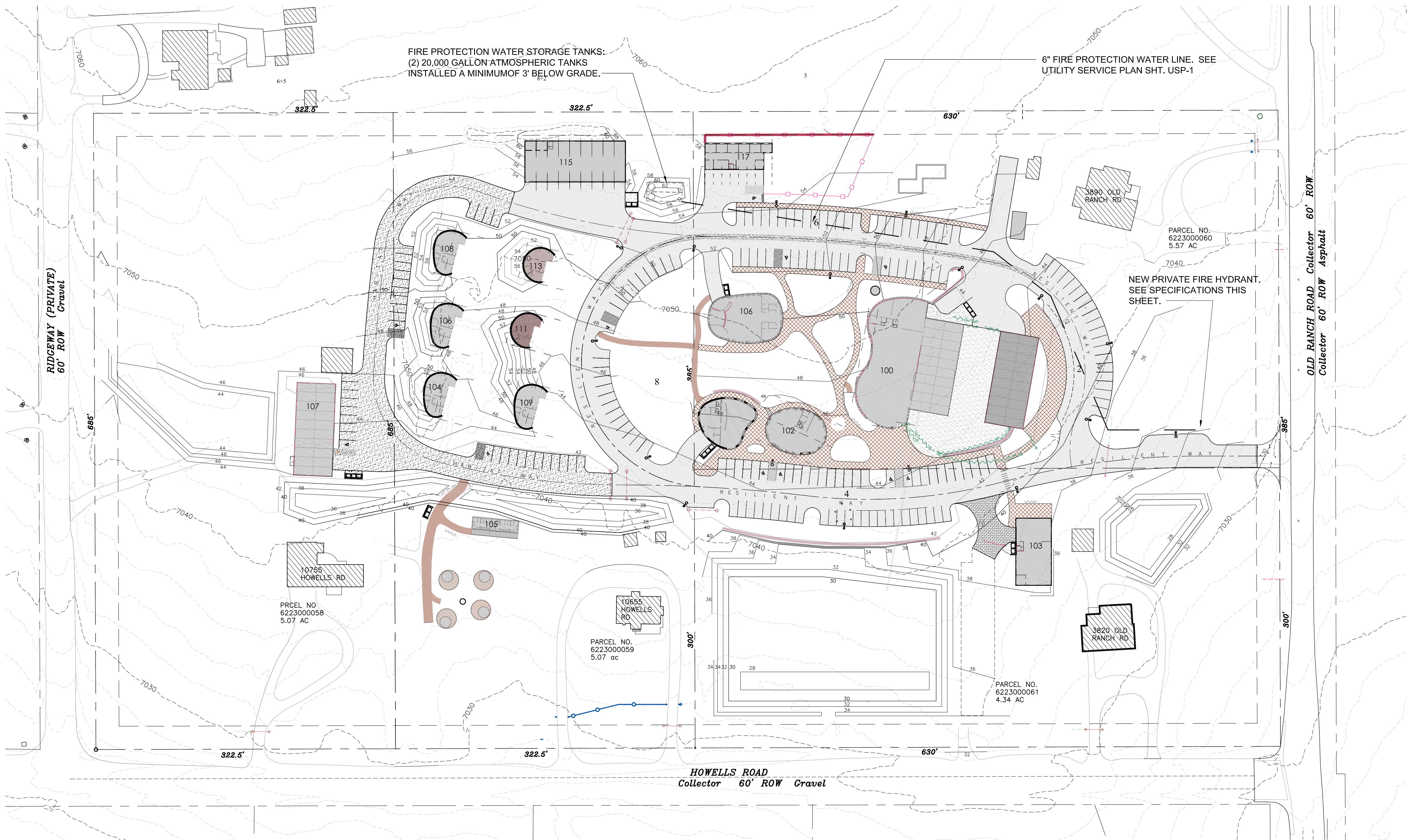




FIRE LINE PROFILE

FIRE PROTECTION GENERAL NOTES:

WATER STORAGE TANK FOR FIRE PROTECTION:

SCOPE: TWO (2) 20,000 GALLON ATMOSPHERIC TANKS SHALL BE INSTALLED BELOW GRADE AND GRAVITY FEED A SINGLE HYDRANT LOCATED AT THE ENTRANCE VIA A 6" SUPPLY PIPE.

1. WATER STORAGE TANKS SHALL BE BURIED FIBERGLASS TANKS MEETING AWWA D120 OR D121.
2. THE UPPER TANK SHALL BE A MINIMUM OF 1 FT. ABOVE THE LOWER TANK AND GRAVITY FEED INTO THE LOWER TANK.
3. TANKS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 22, 2023 ED. AND IN GENERAL CONFORMANCE WITH THESE DRAWINGS.
5. INSTALLATION SHALL BE APPROVED BY BLACK FOREST FIRE RESCUE PROTECTION DISTRICT.

PIPING:

1. ALL WATER DISCHARGE PIPING SHALL BE ASTM A53/A53M, TYPE E, TYPE F, TYPE S, GRADE A OR GRADE B CONFORMING TO ASTM A106/A106M.
2. 6 INCH OR LARGER PIPING SHALL BE SCHEDULE 40; 2 INCH TO 5 INCH PIPING SHALL BE SCHEDULE 80. NO PIPING SHALL BE SMALLER THAN 2 INCH.
3. THE DISCHARGE PIPE SHALL BE 6" MINIMUM HDPE, GRAVITY FED FROM THE UPPER TANK TO THE LOWER TANK AND TO THE HYDRANT.
4. FILL PIPING SHALL BE AT EACH TANK AND PER MANUFACTURER.

TANK CONNECTIONS:

1. TANKS SHALL HAVE A MINIMUM 2-INCH VENT EXTENDING ABOVE GRADE.
2. WATER LEVEL SHALL BE CAPABLE OF BEING READ FROM ABOVE GROUND VIA A FLOATING WATER LEVEL GAUGE.

FILLING AND DRAINING:

1. PROVISIONS SHALL BE MADE TO FILL THE TANK WITHIN 8 HOURS PER NFPA 22 SEC. 4.2.1.4.
2. TANKS MAY BE DRAINED VIA THE HYDRANT.

TESTING & MAINTENANCE:

1. TANKS SHALL BE FILLED, TESTED FOR LEAKAGE, AND PLACED IN SERVICE IN ACCORDANCE WITH NFPA 22.

FIRE HYDRANT TYPE AND CPMPLIANCE:

1. HYDRANT SHALL BE A DRY-BRREL TYPE, COMPLIANT WITH AWWA C502, IFC, AND WATER SUPPLIES FOR FIRE PROTECTION BY CSFD.
2. HYDRANT SHALL BE RATED FOR 250 PSI WORKING PRESSURE.

ISOLATION VALVE:

1. A LISTED POST-INDICATING VALVE (PIV) SHALL BE INSTALLED WITHIN 10' OF THE HYDRANT. VALVE SHALL BE MAINTAINED NORMALLY OPEN.

OUTLETS, THEADS, AND OPERATION:

1. HYDRANT SHALL HAVE: ONE (1) 4.5-INCH PUPER OUTLET (NST) AND TWO (2) 2.5-INCH HOSE OUTLETS (NST).
2. ALL OUTLETS SHALL BE EQUIPPED WITH CAPS & CHAINS.
3. OPERATING NUT SHALL BE PENTAAGON-SHAPED, 1.5 INCHES ACROSS FLATS. OPEN-LEFT.

INSTALLATION, DRAINAGE, AND FREEZE PROTECTION:

1. HYDRANT BASE SHALL BE SET ON CRUSHED STONE OR CONCRETE THRUST BLOCKS, PER MANUFACTURER RECOMMENDATIONS.
2. HYDRANT VALVE SHALL BE SET A MINIMUM OF 3 FEET BELOW GRADE.
3. HYDRANT BARREL SHALL INCLUDE AN AUTOMATIC DRAIN VALVE AND DRAIN TO A GRAVEL SUMP.

HYDRANT COLOR CODING AND IDENTIFICATION:

1. HYDRANT BODY & EXPOSED BARREL SHALLE BE PAINTED YELLOW (RUST-OLEUM EQUIPMENT YELLOW).
2. HYDRANT BONNET SHALL BE PAINTED GREEN (RUST-OLEIUM JOHN DEERE GREEN).
3. HYDRANT SHALL BE LABELED AS A "PRIVATE HYDRANT".

VEHICLE PROTECTION:

1. PROVIDE BOLLARDS PER IFC SECTION 312 TO PROTECT HYDRANT AND PIV AT MAIN ENTRANCE.
2. BOLLARDS SHALL BE PROVIDED WITH REFLECTIVE MARKINGS FOR VISIBILITY.

ACCEPTANCE TESTING AND MAINTENANCE:

1. HYDRANT SHALL BE FLOW TESTED IN ACCORDANCE WITH NFPA 291.
2. TANKS SHALL BE FILLED AND SYSTEM SHALL BE TESTED FOR LEAKAGE AND OPERATION PER NFPA 22.
3. EQUIPMENT SHALL BE PLACED IN SERVICE AS SOON AS PRACTICAL UPON COMPLETION OF INSTALLATION AND TESTING.

FILE NUMBER: PPR2410

FIRE PROTECTION PLAN

1"=60'



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RESUBMITTALS	
4/15/25	
7/1/26	

PROJECT 19.8.1	
DATE 7/1/26	
PHASE Detail Plan	
DRAWN WLF	
CHECKED SSD	
REV'D	

FP 1