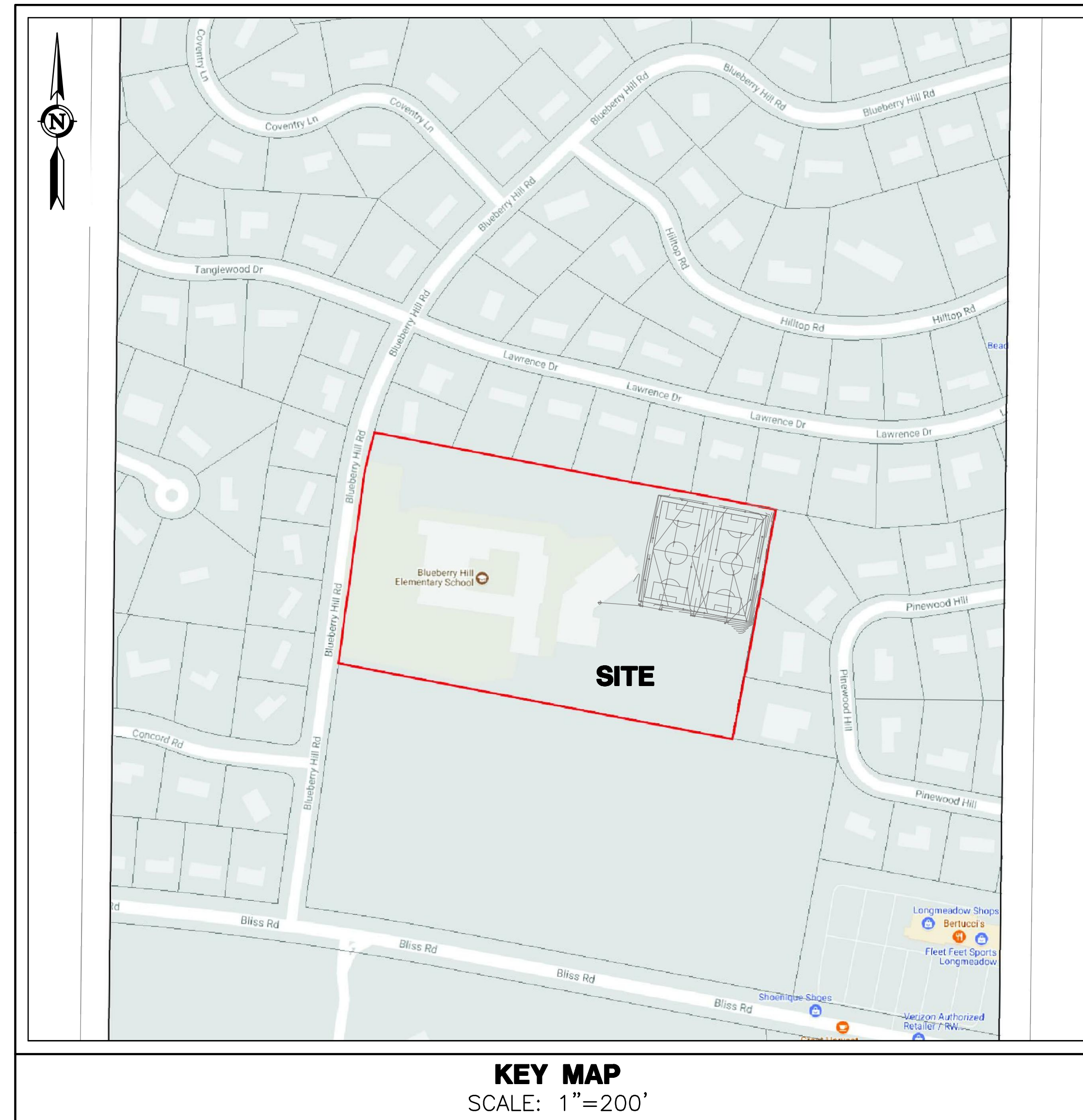


# BLUEBERRY HILL ELEMENTARY SCHOOL

## SOCCER FIELD PLAN

275 BLUEBERRY HILL ROAD ~ LONGMEADOW ~ MASSACHUSETTS

MBLU 87 / 20 / 65



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V-1	DATA ACCUMULATION SURVEY	1 OF 1

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**PROPERTY OWNER:**

TOWN OF LONGMEADOW  
31 PONDSIDE ROAD  
LONGMEADOW, MA 01106

**GENERAL NOTES:**

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Prepared for:  
TOWN OF LONGMEADOW  
31 PONDSIDE ROAD  
LONGMEADOW, MA 01106

PROJECT NO:  
3194  
DATE:  
04/27/18  
DRAWN BY:  
BPM/SFC  
CHECKED BY:  
BPM

BY: **BLUEBERRY HILL ELEMENTARY SCHOOL**  
275 BLUEBERRY HILL ROAD  
MBLU 87 / 20 / 65  
LONGMEADOW, MASSACHUSETTS  
SOCCER FIELD PLAN

NO.	DATE	REVISIONS

**TITLE**

SHEET  
**C-T1**  
SHEET 1 OF 4

**EROSION CONTROL NOTES:**

**CONSTRUCTION SEQUENCE:**

1. INSTALL CONSTRUCTION ACCESS AT DRIVEWAYS OR OTHER LOCATIONS AS SHOWN ON PLANS. MAINTAIN THE CONSTRUCTION ACCESS IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENT ONTO ADJACENT PAVED SURFACES. ADD STONE OR INCREASE THE LENGTH AS CONDITIONS DEMAND.
2. STAKE-OUT THE LIMITS OF CLEARING AND GRUBBING. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES AT LIMITS OF CLEARING AND GRUBBING. CONTRACTOR TO CONDUCT ALL CONSTRUCTION ACTIVITIES WITHIN LIMITS SHOWN ON PLAN.
3. CONSTRUCT TEMPORARY SETTLING OR SILTATION BASINS, SEDIMENT TRAPS AND OTHER BEST MANAGEMENT PRACTICES AS SHOWN ON THE PLANS.
4. REMOVE TOPSOIL FROM AREAS OF DISTURBANCE AND STOCKPILE. POSSIBLE STOCKPILE LOCATIONS ARE SHOWN ON THE SITE PLANS. HOWEVER, LOCATIONS SHALL BE DETERMINED BY CONTRACTOR WITH APPROVAL BY THE ENGINEER & LOCAL AUTHORITY HAVING JURISDICTION. RING SOIL STOCKPILES WITH A ROW OF SILT FENCE. ESTABLISH VEGETATION ON ALL DISTURBED SOIL THAT WILL REMAIN EXPOSED FOR LONGER THAN 30 DAYS. REFER TO NOTE 14 TEMPORARY SEEDING REQUIREMENTS.
5. CREATE TEMPORARY DIVERSION SWALES AS REQUIRED.
6. ANY DEWATERING ACTIVITIES SHALL BE PUMPED TO TEMPORARY SILTATION BASINS AT THE TOP OF THE SLOPE. PUMPED DISCHARGE MUST UTILIZE SILT-SAC OR APPROVED EQUAL. MONITOR TO ENSURE DISCHARGE FROM BASIN IS NOT CAUSING EROSION DOWNSTREAM.
7. MINOR ADJUSTMENTS TO THE EXCAVATION LIMITS MAY BE WARRANTED WITH APPROVAL OF LOCAL AUTHORITY HAVING JURISDICTION TO ALLOW FOR PRESERVATION OF EXISTING VEGETATION.
8. ALL EROSION CONTROL DEVICES SHALL REMAIN FUNCTIONAL AND IN PLACE THROUGHOUT THE CONSTRUCTION EFFORT UNTIL THE SITE IS FULLY STABILIZED WITH VEGETATION.

**STORM DRAINAGE SYSTEM MAINTENANCE AND OPERATION:**

THE FOLLOWING MAINTENANCE SHALL BE REQUIRED TO ENSURE EFFICIENT OPERATION OF THE STORM DRAINAGE SYSTEM, DETENTION BASIN, AND/OR UNDERGROUND BASINS. THE MAINTENANCE SCHEDULE IS INTENDED TO BE A GUIDE. AN INSPECTION OF ALL STORM DRAINAGE COMPONENTS IS REQUIRED FOLLOWING LARGE STORM EVENTS (0.5 INCHES OR GREATER) THAT COULD CAUSE THE DEPOSITION OF EXCESS DEBRIS.

CATCHBASINS: SHALL BE INSPECTED ANNUALLY AND SUMPS CLEANED WHEN DEPTH OF MATERIAL REACHES TWELVE INCHES.

PAVEMENT SWEEPING: PAVEMENT AREAS SHALL BE SWEEPED AT LEAST TWICE PER YEAR. ONCE IN THE SPRING SHORTLY AFTER THE END OF THE SNOW SEASON, AND IN THE FALL AFTER THE LEAVES HAVE FALLEN. DURING CONSTRUCTION KEEP PAVEMENT FREE OF SEDIMENTS TO REDUCE THE TRANSFER OF SEDIMENTS OFFSITE.

**EROSION & SEDIMENTATION CONTROL NARRATIVE**

1. PRIOR TO THE START OF CONSTRUCTION, ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THESE PLANS.
2. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHOWN ON THESE PLANS. THIS RESPONSIBILITY INCLUDES IMPLEMENTATION AS WELL AS MAINTENANCE. ANY PROPOSED CHANGES TO THIS PLAN MUST BE APPROVED BY THE ENGINEER AND/OR THE LOCAL AUTHORITY HAVING JURISDICTION.
3. CONSTRUCTION ACCESS SHALL BE INSPECTED REGULARLY TO ENSURE PROPER OPERATION. STONE SHALL BE ADDED OR REPLACED AS REQUIRED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADJACENT ROADWAYS, (BOTH PUBLIC & COMPLETED PORTIONS OF THE PROJECT) FREE FROM ACCUMULATED DUST AND DIRT. STREETS SHALL BE SWEEPED CLEAN AT ALL TIMES.
5. AREAS TO BE LEFT BARE FOR MORE THAN 30 DAYS SHALL BE TREATED WITH AIR DRIED WOOD CHIP MULCH OR SEEDED WITH PERENNIAL RYE-GRASS UNTIL FINAL GRADING AND STABILIZATION TAKES PLACE.
6. ALL DISTURBED SLOPES EXCEEDING A 3:1 SLOPE SHALL IMMEDIATELY RECEIVE MULCH AND TEMPORARY SEEDING IN ACCORDANCE WITH THE FOLLOWING APPLICATION RATES:
 

MULCH:	RATE:
STRAW	90# / 1000 S.F.
TEMPORARY SEEDING:	RATE:
PERENNIAL RYEGRASS	1.0# / 1000 S.F.
7. CONTRACTOR SHALL CLEAN CATCHBASIN SUMPS, DIVERSION SWALES, & TEMPORARY SETTLING SUMPS AS REQUIRED DURING CONSTRUCTION.
8. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL MANAGE STORMWATER RUNOFF SO THAT NO DIRECT DISCHARGE OF RUNOFF THAT CONTAINS SUSPENDED PARTICLES, FLOWS INTO RECEIVING WATERS. RUNOFF SHALL BE DIRECTED INTO TEMPORARY SEDIMENT SUMPS AND TREATED.
9. AT NO TIME DURING THE CONSTRUCTION EFFORT SHALL THERE BE ANY OPEN AND DISTURBED AREA GREATER THAN 5 ACRES WITHOUT SILT FENCE PERIMETER OF SET AREA.
10. AFTER ALL SITE WORK IS COMPLETED, INCLUDING THE SPREADING OF TOPSOIL AND SEEDING, THE CONTRACTOR SHALL CLEAN ANY SILT OR DEBRIS FROM THE TWO EXISTING YARD DRAINS ADJACENT TO THE AREA TO BE DISTURBED.
11. AT ALL TIMES DURING THE CONSTRUCTION EFFORT, THE CONTRACTOR SHALL HAVE AVAILABLE THE APPROPRIATE EQUIPMENT FOR WATER APPLICATION FOR THE PURPOSES OF ALLAYING DUST. APPLY WATER, SUITABLE MATERIALS, OR COVERS TO MATERIAL STOCKPILES AND OTHER SURFACES THAT CAN GIVE RISE TO AIRBORNE PARTICULATE MATTER. COVER, WHILE IN MOTION, OPEN-BODIED TRUCKS OR OPEN-BODIED TRAILERS. MINIMIZE THE VOLUME OF WATER SPRAYED FOR CONTROLLING DUST AS TO PREVENT THE RUNOFF OF WATER. NO DISCHARGE OF DUST CONTROL WATER SHALL CONTAIN OR CAUSE A VISIBLE OIL SHEEN, FLOATING SOLIDS, VISIBLE DISCOLORATION, OR FOAMING IN THE RECEIVING STREAM.
12. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES COMPLY WITH THE NOISE ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
13. THE CONTRACTOR SHALL EXCAVATE A PIT TO BE DESIGNATED AS A WASHOUT AREA FOR CONCRETE, PAINT, AND OTHER MATERIALS. THIS AREA SHALL BE CLEARLY FLAGGED AND CONSTRUCTED TO BE ENTIRELY SELF-CONTAINED. THIS AREA SHALL BE OUTSIDE OF ANY BUFFERS AND AT LEAST 50 FEET FROM ANY STREAM, WETLAND, OR OTHER SENSITIVE SOURCE. DUMPING OF LIQUID WASTES IN STORM SEWERS IS PROHIBITED. THE WASHOUT AREA SHALL BE INSPECTED AT LEAST ONCE A WEEK TO ENSURE STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY, AND TO CHECK FOR LEAKS AND OVERFLOWS. ACCUMULATED DEBRIS SHOULD BE REMOVED ONCE THE

WASHOUT AREA REACHES HALF WAY FULL OR IS DEEMED NECESSARY TO AVOID OVERFLOWS. REMOVE AND DISPOSE OF HARDENED CONCRETE WASTE CONSISTENT WITH PRACTICES DEVELOPED FOR THE WASTE DISPOSAL.

14. THE CONTRACTOR SHALL DESIGNATE A WASTE DISPOSAL AREA FOR TEMPORARY STORAGE OF MATERIALS TO BE REMOVED FROM THE SITE. THE DESIGNATED WASTE AREA SHALL BE SELECTED AS TO MINIMIZE TRUCK TRAVEL THROUGH THE SITE. THE AREA WILL NOT DRAIN DIRECTLY TO ADJACENT WETLANDS. PICKUPS SHALL BE SCHEDULED REGULARLY TO PREVENT THE CONTAINERS FROM OVERFILLING. SPILLS SHALL BE CLEANED UP IMMEDIATELY. DEFECTIVE CONTAINERS THAT MAY CAUSE LEAKS OR SPILLS WILL BE IDENTIFIED THROUGH REGULAR INSPECTION. ANY FOUND TO BE DEFECTIVE WILL BE REPAIRED OR REPLACED IMMEDIATELY. ANY STOCKPILING OF MATERIALS SHOULD BE CONFINED TO THE DESIGNATED AREA AS DEFINED BY THE CONTRACTOR.
15. ALL CHEMICAL AND PETROLEUM PRODUCT CONTAINERS STORED ON THE SITE (EXCLUDING THOSE CONTAINED WITHIN VEHICLES AND EQUIPMENT) SHALL BE PROVIDED WITH IMPERMEABLE CONTAINMENT WHICH WILL HOLD AT LEAST 110% OF THE VOLUME OF THE LARGEST CONTAINER, OR 10% OF THE TOTAL VOLUME OF ALL CONTAINERS IN THE AREA, WHICHEVER IS LARGER. WITHOUT OVERTFLOW FROM THE CONTAINMENT AREA. ALL CHEMICALS AND THEIR CONTAINERS SHALL BE STORED UNDER A ROOFED AREA EXCEPT FOR THOSE CHEMICALS STORED IN CONTAINERS OF 100 GALLON CAPACITY OR MORE, IN WHICH CASE A ROOF IS NOT REQUIRED. DOUBLE-WALLED TANKS SATISFY THIS REQUIREMENT.
16. CONTRACTOR SHALL COORDINATE WITH THE PROPER AGENCIES FOR RELOCATION OF ANY UTILITIES OR SIGNS.
17. IF REQUIRED, AN APPROVED EROSION CONTROL BOND SHALL BE PREPARED BEFORE THE START OF ANY CONSTRUCTION ACTIVITY.
18. FROZEN MATERIAL SHALL NOT BE USED FOR FILL NOR SHALL FILL BE PLACED OR COMPACTED ON FROZEN GROUND.

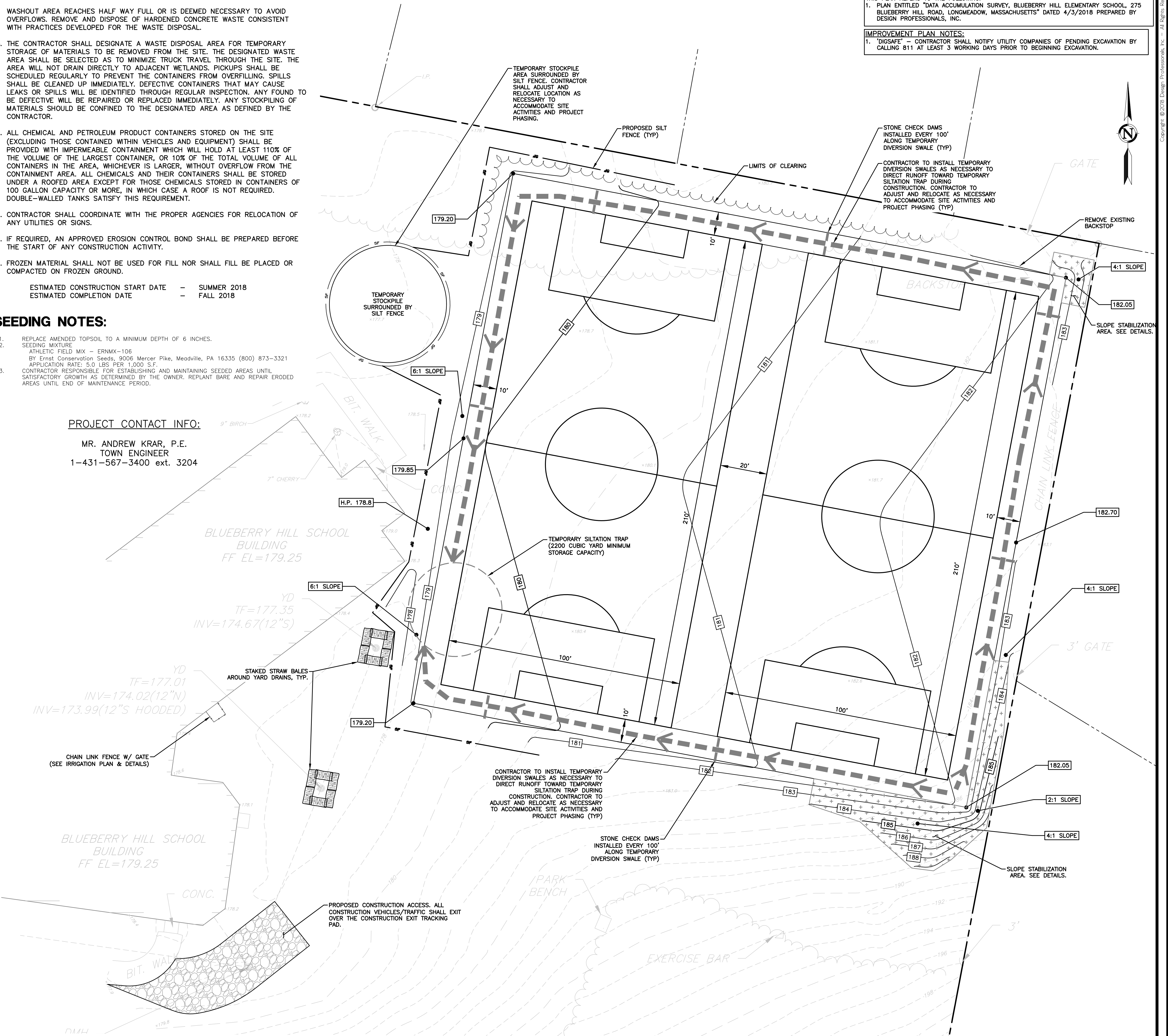
ESTIMATED CONSTRUCTION START DATE - SUMMER 2018  
ESTIMATED COMPLETION DATE - FALL 2018

**SEEDING NOTES:**

1. REPLACE AMENDED TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES.
2. SEEDING MIXTURE  
ATHLETIC FIELD MIX - ERNMX-106  
BY Ernst Conservation Seeds, 9006 Mercer Pike, Meadville, PA 16335 (800) 873-3321  
APPLICATION RATE: 5.0 LBS PER 1,000 S.F.
3. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SEEDED AREAS UNTIL SATISFACTORY GROWTH AS DETERMINED BY THE OWNER. REPLANT BARE AND REPAIR ERODED AREAS UNTIL END OF MAINTENANCE PERIOD.

**PROJECT CONTACT INFO:**

MR. ANDREW KRAR, P.E.  
TOWN ENGINEER  
1-431-567-3400 ext. 3204



**REFERENCES:**  
THIS PLAN REFERS TO THE FOLLOWING:  
1. PLAN ENTITLED "DATA ACCUMULATION SURVEY, BLUEBERRY HILL ELEMENTARY SCHOOL, 275 BLUEBERRY HILL ROAD, LONGMEADOW, MASSACHUSETTS" DATED 4/3/2018 PREPARED BY DESIGN PROFESSIONALS, INC.

**IMPROVEMENT PLAN NOTES:**  
1. "DIGSAFE" - CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF PENDING EXCAVATION BY CALLING 811 AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING EXCAVATION.

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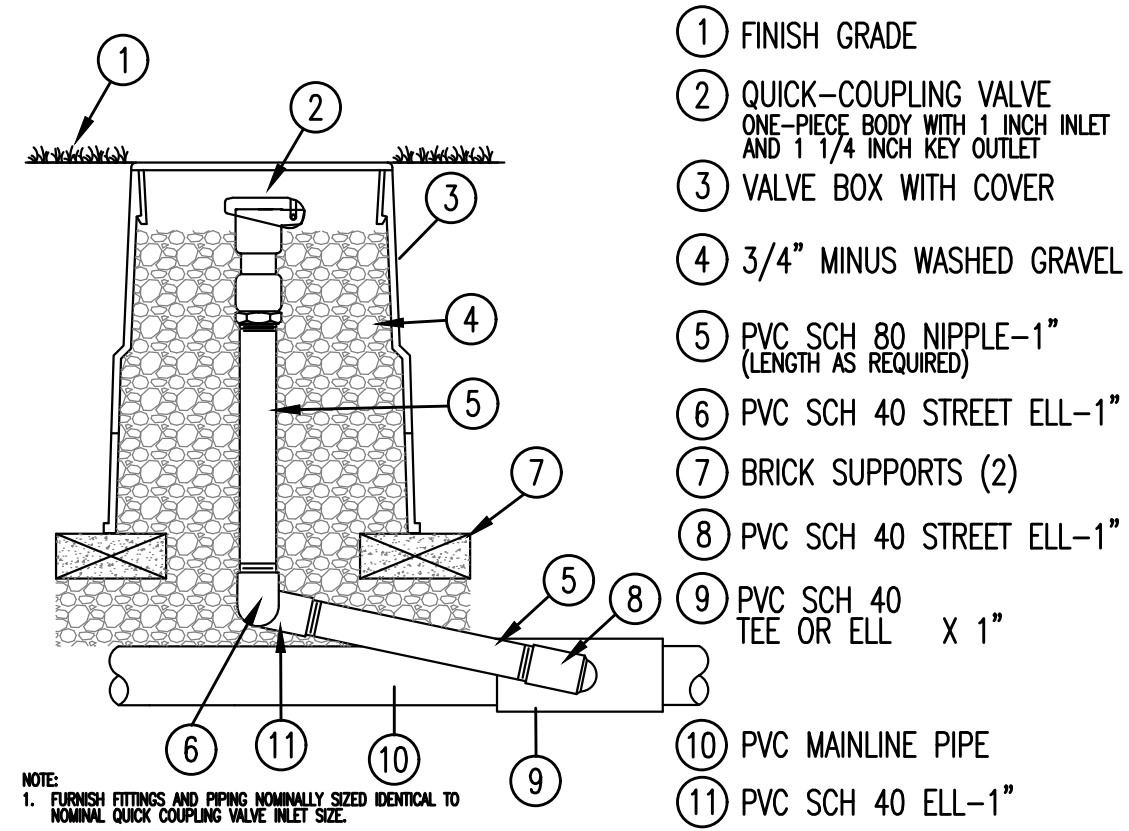
Prepared for:  
BLUEBERRY HILL ELEMENTARY SCHOOL  
275 BLUEBERRY HILL ROAD  
MELU 87 / 20 / 65  
LONGMEADOW, MASSACHUSETTS  
SOCCER FIELD PLAN

NO.	DATE	REVISIONS

PROJECT NO.: 3994  
DATE: 04/27/18  
DRAWN BY: BFW/SFC  
CHECKED BY: BFW  
SCALE: 0' = 1" / 20' T = 20'  
SHEET  
**C-SP1**  
SHEET 2 OF 4

**IRRIGATION NOTES:**

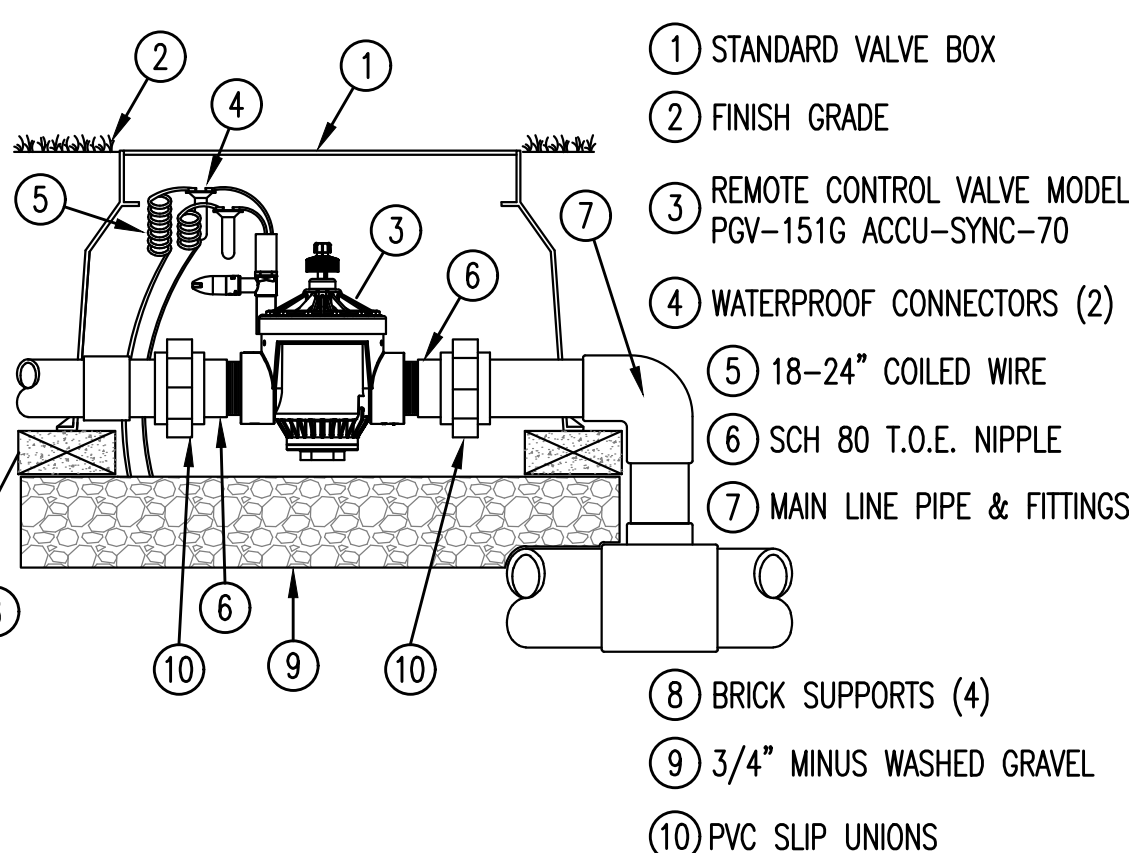
- SYSTEM IS DESIGNED FOR 75 PSI AT POINT OF CONNECTION WITH 28 GPM PER ZONE. CONTRACTOR TO VERIFY EXISTING PRESSURE AND FLOW AT POINT OF CONNECTION AND REPORT RESULTS TO OWNER PRIOR TO COMMENCING CONSTRUCTION. PROVIDE AN ADD ALTERNATE BID FOR INSTALLING A BOOSTER PUMP, IF REQUIRED, TO MEET SYSTEM OPERATING REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE EXACT POINT OF CONNECTION WITH OWNER. CONNECT TO EXISTING WATER SUPPLY PER APPLICABLE PLUMBING CODES, INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF A BACK FLOW PREVENTER.
- PROVIDE 2" DRAINABLE GATE VALVE IN BELOW GRADE PIT AT POINT OF CONNECTION.
- IRRIGATION PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD LOCATE ALL ITEMS WITHOUT COMPROMISING THE INTEGRITY OF THE SYSTEM. ANY CHANGES TO THE NUMBER OF HEADS OR VALVES, OR TO THE HYDRAULICS SHALL BE SUBMITTED TO THE OWNER PRIOR TO COMMENCING WORK. PIPE ROUTING, HEAD, & VALVE PLACEMENT SHALL BE THE RESPONSIBILITY OF THE INSTALLER, USING THIS DESIGN AS A GUIDE.
- NO VALVE BOXES SHALL BE LOCATED WITHIN 10 FEET FROM THE PERIMETER OF THE PLAYING FIELDS AS SHOWN ON THE PLAN.
- CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE IRRIGATION SYSTEM, AND SHALL FOLLOW ALL APPLICABLE CODES, LAWS, AND REGULATIONS. ADJUST ARCS FOR HEADS LOCATED AT CORNERS AND EDGES OF FIELDS AS SHOWN TO PROVIDE 90° OR 180° THROW RESPECTIVELY.
- CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.



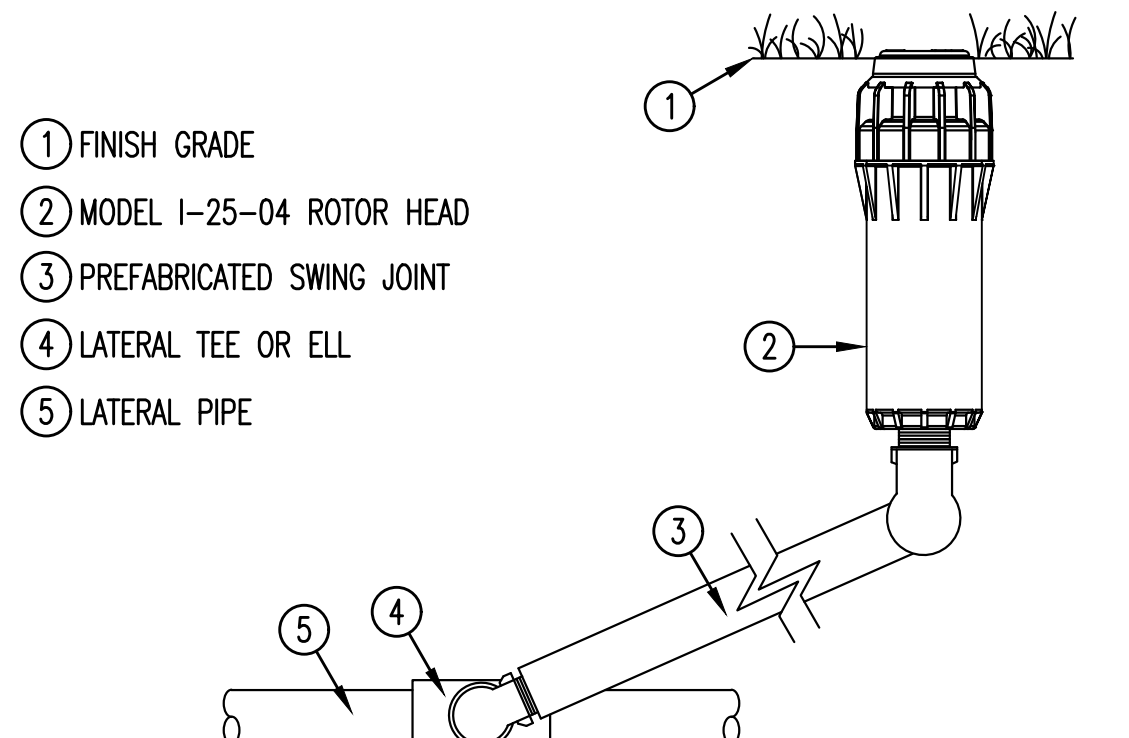
**1 IRRIGATION CONTROLLER (I2C-800-PP)**  
 Hunter C.ICC2.04  
 NOT TO SCALE

**PROJECT CONTACT INFO:**  
 MR. ANDREW KRAR, P.E.  
 TOWN ENGINEER  
 1-431-567-3400 ext. 3204

**2 HQ5-LRC QUICK COUPLING VALVE**  
 NOT TO SCALE  
 Hunter IRRIGATION DETAIL



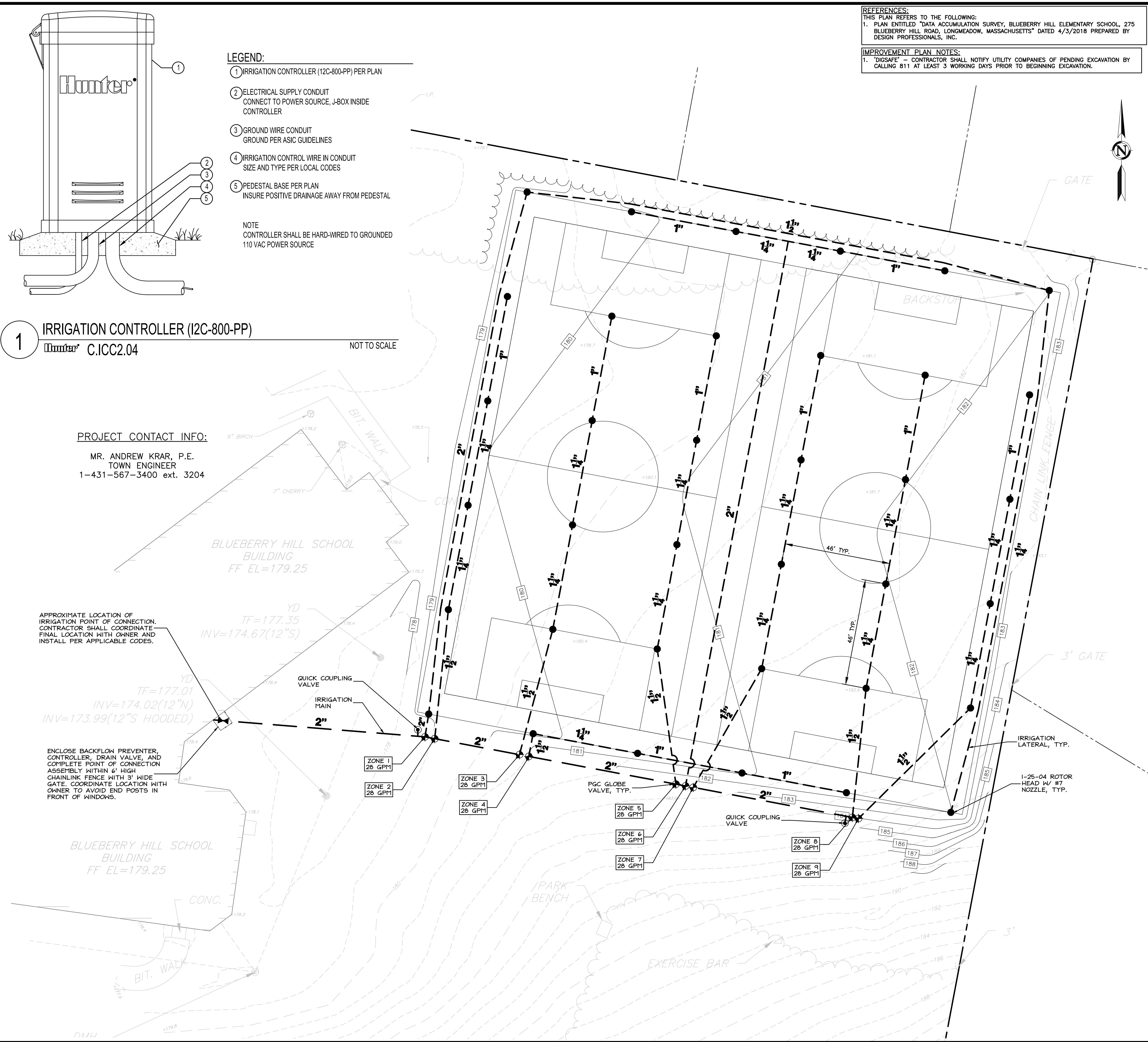
**3 PGV GLOBE VALVE**  
 NOT TO SCALE  
 Hunter IRRIGATION DETAIL



**4 I-25-04 ROTOR HEAD**  
 NOT TO SCALE  
 Hunter IRRIGATION DETAIL

- LEGEND:**
- IRRIGATION CONTROLLER (I2C-800-PP) PER PLAN
  - ELECTRICAL SUPPLY CONDUIT CONNECT TO POWER SOURCE, J-BOX INSIDE CONTROLLER
  - GROUND WIRE CONDUIT GROUND PER ASIC GUIDELINES
  - IRRIGATION CONTROL WIRE IN CONDUIT SIZE AND TYPE PER LOCAL CODES
  - PEDESTAL BASE PER PLAN INSURE POSITIVE DRAINAGE AWAY FROM PEDESTAL

**NOTE:**  
 CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC POWER SOURCE



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 LONGMEADOW, MASSACHUSETTS  
 SOCCER FIELD PLAN

PROJECT NO.: 3194  
 DATE: 04/27/18  
 DRAWN BY: BFW/SFC  
 CHECKED BY: BFW  
 SCALE: 1" = 20'

NO.	DATE	REVISIONS

IRRIGATION PLAN & DETAILS  
 SCALE: 0' 10' 20' 40'  
 T = 20'  
 SHEET  
**C-IR1**  
 SHEET 3 OF 4