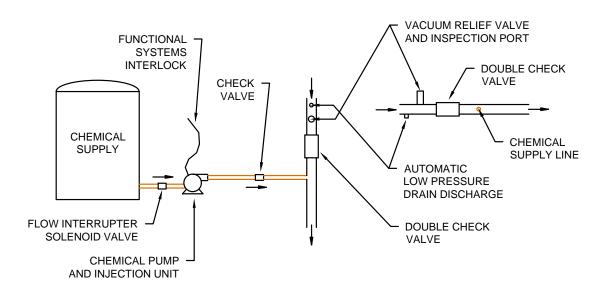


TYPICAL PUMPING STATION DETAIL NOT TO SCALE

PIPE & FITTING SIZES VARY WITH WELL AND IRRIGATION SYSTEM REQUIREMENTS



TYPICAL FERTIGATION/CHEMIGATION DETAIL NOT TO SCALE

PIPE & FITTING SIZES VARY WITH WELL AND IRRIGATION SYSTEM REQUIREMENTS

WELL CONSTRUCTION

ALL WELLS MUST BE CONSTRUCTED BY A NC LICENSED WELL DRILLER WITH SETBACKS ACCORDING TO THE GREATER OF NRCS STANDARD 642 OR NCAC 15A 2C WELL CONSTRUCTION STANDARDS.

THE WELL MUST BE CONSTRUCTED IN ACCORDANCE WITH NC LAW BY A CERTIFIED WELL DRILLER.

SETBACK REQUIREMENTS

OLI BACK KEGOIKEMENTO	
SANITARY LANDFILL	500 ft
WASTE DISPOSAL LAGOON OR HOLDING POND	300 ft
SEPTIC TANK AND DISPOSAL FIELD	100 ft
PERMANENT LIVESTOCK FEEDING AREA	100 ft
(CONCRETE PADS OR HEAVY USE AREAS, ETC.)	
LIVESTOCK BARN	100 ft
MANURE PILE	100 ft
WASTE IRRIGATION SITES	100 ft
FERTILIZER, PESTICIDE, OR OTHER CHEMICAL	100 ft
STORAGE AREAS	
NON-HAZARDAS/INERT DEBRIS LANDFILLS	100 ft
(SLUMP DUMPS)	
GRAVITY SEWER LINE OR TRANSFER STATION	100 ft
(NON WATER TIGHT)	
REGULATED FUEL OR CHEMICAL STORAGE	100 ft
TANKS (WITHOUT SECONDARY CONTAINMENT)	
AGRICHEMICAL HANDLING AND MIXING FACILITY	100 ft
REGULATED FUEL OR CHEMICAL STORAGE	50 ft
TANKS (WITH SECONDARY CONTAINMENT)	
GRAVITY SEWER LINE OR TRANSFER STATION	50 ft
(WATER TIGHT)	
HEATING FUEL STORAGE STANKS	50 ft
(ABOVE AND BELOW GROUND)	
PONDS, LAKES, RESERVOIRS	50 ft
OTHER POSSIBLE SOURCES OF CONTAMINATION	50 ft
(LIVESTOCK WATERING TANK, EQUIPMENT WASH	
AREAS, ETC.)	
STREAMS, CREEKS, RIVERS, ETC.	25 ft
BUILDING FOUNDATIONS	25 ft

GENERAL WELL SITING NOTES

- IF POSSIBLE, WELLS SHALL BE LOCATED IN GROUND THAT IS HIGHER THAN ANY SOURCE OF CONTAMINATION.
- WELLS SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR WHERE SURFACE FLOW OF ANY VOLUME SHOULD BE EXPECTED. AREAS TO BE AVOIDED INCLUDE: CONCAVE SLOPE, ALLUVIAL OR COLLUVIAL SOILS, GULLIES, DEPRESSIONS AND DRAINAGE WAYS.
- SURFACE RUNOFF THAT MIGHT REACH THE WELL FROM AN AREA USED BY LIVESTOCK SHALL BE DIVERTED AWAY FROM THE WELL HEAD.
- AREAS WITH OVERHEAD AND/OR UNDERGROUND UTILITIES SHOULD BE AVOIDED.
- WELLS MUST BE READILY ACCESSIBLE FOR MAINTENANCE AND REPAIR.
- IF REQUIRED, WELL SHALL BE PERMITTED, INSPECTED, AND SAMPLED BY THE COUNTY HEALTH DEPARTMENT.

IDENTIFICATION PLATES

THE WELL CONTRACTOR MUST ATTACH AN IDENTIFICATION PLATE TO THE WELL HEAD AND A PUMP INSTALLATION INFORMATION PLATE ON THE PUMP THAT COMPLIES WITH CURRENT NORTH CAROLINA WELL LAW.

FERTIGATION AND CHEMIGATION

WATER SUPPLY MAIN LINE

- 1. AUTOMATIC LOW PRESSURE DRAIN LOCATED BETWEEN DISCHARGE SIDE OF IRRIGATION PUMP AND THE INLET SIDE OF DOUBLE CHECK VALVES PRECEDING PESTICIDE SUPPLY. SHALL DISCHARGE AT LEAST 20 FT FROM ANY WATER SUPPLY AND CONTROLLED FROM RE-ENTERING THE WATER SUPPLY
- **INSPECTION PORT LOCATED BETWEEN IRRIGATION PUMP** DISCHARGE AND INLET OF MAINLINE CHECK VALVES. ALLOWS INSPECTION FOR MAINLINE CHECK VALVE LEAKAGE
- VACUUM RELIEF VALVE LOCATED ON TOP OF THE IRRIGATION PIPELINE BETWEEN IRRIGATION PUMP DISCHARGE AND INLET OF MAINLINE CHECK VALVES. ORIFICE SIZE SHALL BE 36 THE DIAMETER OF THE MAIN LINE PIPE. PREVENTS CHEMICAL BACKSIPHONING
- DOUBLE CHECK VALVE LOCATED BETWEEN VACUUM RELIEF VALVE AND THE POINT OF CHEMICAL/FERTILIZER INJECTION. MUST BE WITHIN 10° OF HORIZONTAL. MUST HAVE POSITIVE CLOSING ACTION AND A WATERTIGHT SEAL. PREVENTS CHEMICAL BACKSIPHONING.

FERTIGATION/CHEMIGATION SUPPLY LINE

- CHECK VALVE LOCATED BETWEEN LINE CONNECTION TO WATER SUPPLY AND CHEMICAL INJECTION UNIT. PREVENTS WATER BACKFLOW INTO CHEMICAL SUPPLY. SHALL BE CONSTRUCTED OF CHEMICAL RESISTANT MATERIAL. FLUSH WITH CLEAN WATER AFTER CHEMICAL INJECTION TO CLEAR CHEMICAL PRECIPITATES.
- FLOW INTERRUPTION DEVICE, SOLENOID VALVE LOCATED BETWEEN CHEMICAL INJECTION UNIT AND CHEMICAL CONTAINER. PROVIDES POSITIVE SHUT OFF ON THE SUPPLY LINE AND PREVENTS CHEMICALS AND WATER FROM FLOWING IN EITHER DIRECTION IF CHEMICAL PUMP IS STOPPED.

- 1. FUNCTIONAL SYSTEMS INTERLOCK THE WATER SUPPLY PUMP AND CHEMICAL INJECTION PUMP MUST BE CONNECTED SO THAT IF THE WATER SUPPLY PUMP STOPS, THE CHEMICAL INJECTION PUMP WILL STOP. THIS ENSURES THAT CHEMICALS/FERTILZER IS APPLIED WITH WATER THROUGH THE SYSTEM.
- MEDIA FILTERS CHEMICAL/FERTILIZER INJECTION MUST OCCUR ON THE OUTLET SIDE OF ALL MEDIA FILTERS. A CHECK VALVE IS REQUIRED BETWEEN MEDIA FILTERS AND POINT OF INJECTION.

SITE INFORMATION AND WELL FLOW ESTIMATE

APPROXIMATE LOCATION:			
LAT	LONG		
LANDOWNER:			
CROP:			
IRRIGATED AREA:	ACRES		
PEAK MONTH:			
PEAK GIR:	INCHES		
WELL FLOW RATE:	GPM (ESTIMATE)		
ACTUAL WELL FLOW RATE SHALL BE DETERMINED BY THE WELL DRILLER AT THE TIME OF DRILLING.			
NOTES:			

REVISIONS				
DATE	APPROVED	TITLE		
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IRRIGATION WELL COUNTY, NORTH CAROLINAL AND WATER CONSERVATION

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