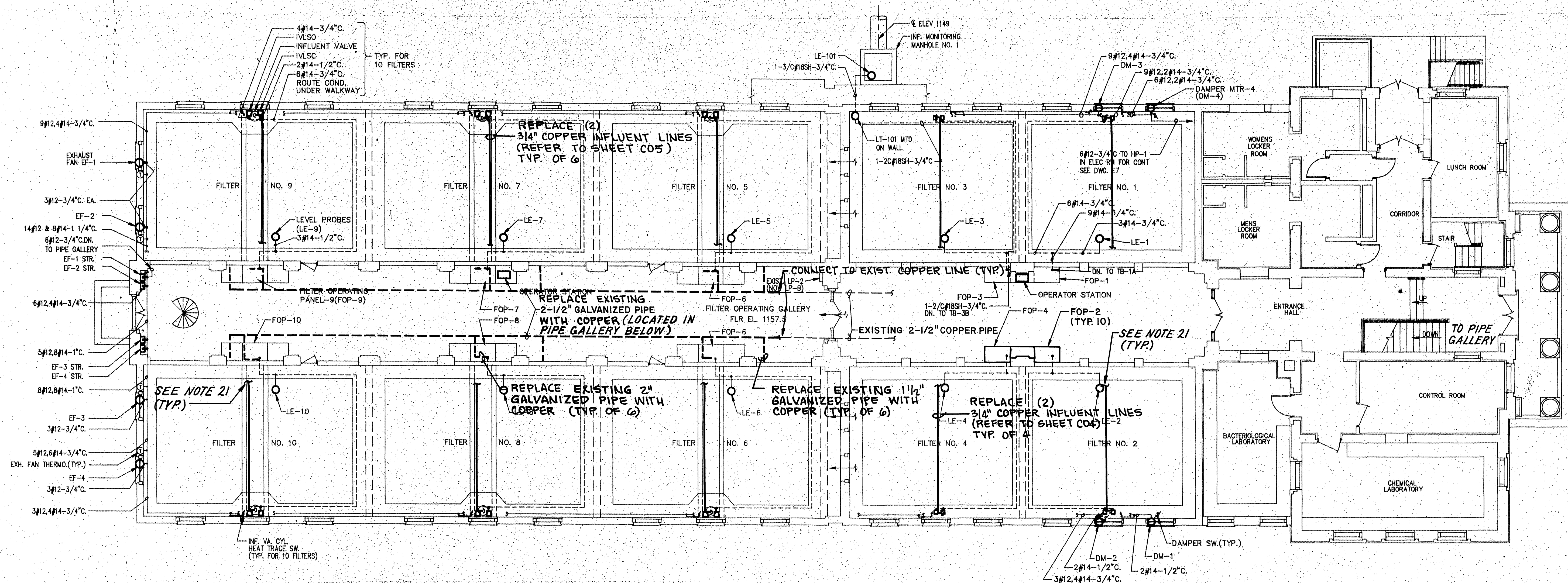




NOTES:

SCALE OF DRAWING: 1/8" = 1'-0"

- THE CONTRACTOR SHALL NOTIFY THE PLANT SUPERINTENDENT 48 HOURS IN ADVANCE TO SCHEDULING ANY WORK. PLANT SUPERINTENDENT AND PERSONNEL SHALL BE RESPONSIBLE FOR ALL OPERATION OF FILTERS, INCLUDING TAKING FILTERS OUT OF SERVICE.
- ONLY ONE (1) FILTER WILL BE ALLOWED TO BE OUT OF SERVICE AT ANY GIVEN POINT. 24 HOURS WILL BE THE MAXIMUM ALLOWABLE TIME THAT ANY FILTER CAN BE OUT OF SERVICE.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL PIPING, VALVES AND FITTINGS AS INDICATED ON DRAWINGS.
- LOCATION OF PIPING MAY BE ADJUSTED AS NECESSARY TO MAKE CONNECTIONS. PIPING SHALL BE MOUNTED ON WALLS AND CEILING WHEREVER POSSIBLE IN ACCORDANCE WITH SPECIFICATIONS.
- NO PIPING WILL BE ALLOWED DIRECTLY INFRONT OR BEHIND THE ELECTRIC SOLENOID PANELS LOCATED IN THE PIPE GALLERY.
- ALL PIPING SHALL BE POSITIONED TO ALLOW NORMAL OPERATION OF ALL EXISTING VALVES AND EQUIPMENT.
- ALL EXISTING VALVES ON THE 1 1/2" AND 2" LINES SHALL BE REMOVED FROM EXISTING PIPING AND REUSED ON NEW COPPER PIPE. (LOCATION TO BE APPROXIMATELY THE SAME AS ON EXISTING PIPING)
- CONTRACTOR SHALL COORDINATE REPLACEMENT OF 2 1/2", 2" AND 1 1/2" LINES WITH PLANT SUPERINTENDENT.
- CONTRACTOR SHALL REPLACE EXISTING 1 1/2" PIPING WITH 1 1/2" COPPER PIPE TO WITHIN ONE (1) FOOT OF WHERE EXISTING PIPE ENTERS CONCRETE WALL.
- CONTRACTOR SHALL REPLACE EXISTING 2" PIPE WITH 2" COPPER PIPE TO WITHIN ONE (1) FOOT OF WHERE EXISTING PIPE CONNECTS TO HEADER. HEADER IS LOCATED AT THE BACK OF EACH FILTER OPERATION PANEL.
- THE CONTRACTOR WILL NOT BE ALLOWED TO PLACE ANYTHING ON THE FILTER MEDIA. NO SOLDERING WILL BE ALLOWED DIRECTLY OVER THE FILTERS UNLESS SOME TYPE OF PROTECTIVE COVERING IS PLACED OVER THE FILTER.
- EXTREME CARE SHALL BE TAKEN TO PREVENT ANY MATERIAL, DEBRIS, ETC., FROM FALLING INTO THE FILTER BASINS. HOWEVER, IN THE EVENT ANYTHING IS DROPPED INTO THE FILTER BASINS, THE PLANT SUPERINTENDENT SHALL BE NOTIFIED IMMEDIATELY.
- CONTRACTOR SHALL ALSO REMOVE AND REPLACE ALL BRACKETS SUPPORTING THE 3/4" INFLUENT PIPING IN THE SETTLING BASINS (PIPING IS ALSO TO BE REPLACED AS INDICATED ON THE DRAWINGS) WITH STAINLESS STEEL BRACKETS AND ANCHOR BOLTS OF SIMILAR SIZE.
- ALL SOLDER SHALL BE LEAD FREE.
- AFTER THE PIPING FOR EACH INDIVIDUAL FILTER IS COMPLETED, IT SHALL BE SATISFACTORY TESTED BEFORE THE CONTRACTOR WILL BE ALLOWED TO START ON ANOTHER FILTER.
- THE CONTRACTOR SHALL FURNISH THE REQUIRED FITTINGS, (ADAPTERS, COUPLINGS, GASKETS, ETC.) FOR THE REPLACEMENT OF EACH HYDRAULIC POSITIONER AND PILOT VALVE. THE MANUFACTURER SHALL BE ROBERTS FILTER MANUFACTURING COMPANY OR EQUAL.
- THE PIPE GALLERY IS LOCATED ON THE BOTTOM FLOOR OF THE CONTROL BUILDING.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF ALL DEBRIS FROM SITE IN ACCORDANCE WITH ALL LOCAL CODES.
- CONTRACTOR SHALL ALSO COORDINATE ALL WORK WITH CROWDER CONSTRUCTION AND ALL ASSOCIATED SUB-CONTRACTORS.
- FILTERS 1, 2, 3 & 4 ARE THE SAME AS EACH OTHER. FILTERS 5, 6, 7, 8, 9 & 10 ARE THE SAME AS EACH OTHER BUT NOT THE SAME AS FILTERS 1, 2, 3 & 4.
- THE PIPE SHALL BE CONNECTED TO THE EXISTING PIPE NEAR THE WALL. THE PIPE WITHIN THE WALL SHALL NOT BE REPLACED BUT SHALL BE CLEANED INSIDE, WITHIN THE WALL, WITH A STIFF WIRE BRUSH.

APPROXIMATE

PIPE QUANTITIES

PIPE SIZE (COPPER)	LENGTH (FEET)
1/2"	940' ±
3/4"	2450' ±
1-1/2"	35' ±
2"	130' ±
2-1/2"	175' ±

CONTRACT BID ITEMS 2 AND 3

MATTERN & CRAIG
CONSULTING ENGINEERS • SURVEYORS
ROANOKE VIRGINIA

ALVORD, BURDICK & HOWSON
ENGINEERS CHICAGO

DESIGNED:

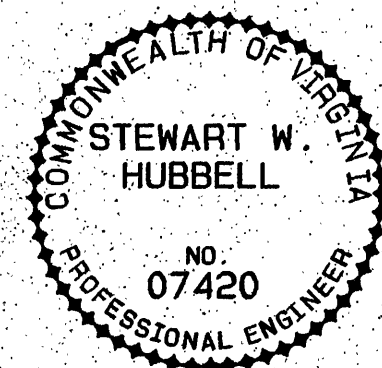
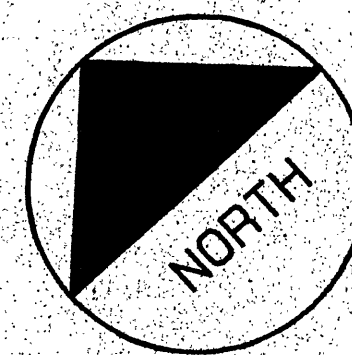
RFP

DRAWN:

TAM

CHECKED:

SWH



REV	DATE	DESCRIPTION	BY	APP.

CARVINS COVE FILTER PLANT IMPROVEMENTS - PHASE I
NEW CONTRACT ITEMS
ROANOKE, VIRGINIA

PIPING AND VALVES

DATE
SEPT. 1994
COMM. NO.
1138C0
SHEET
C03