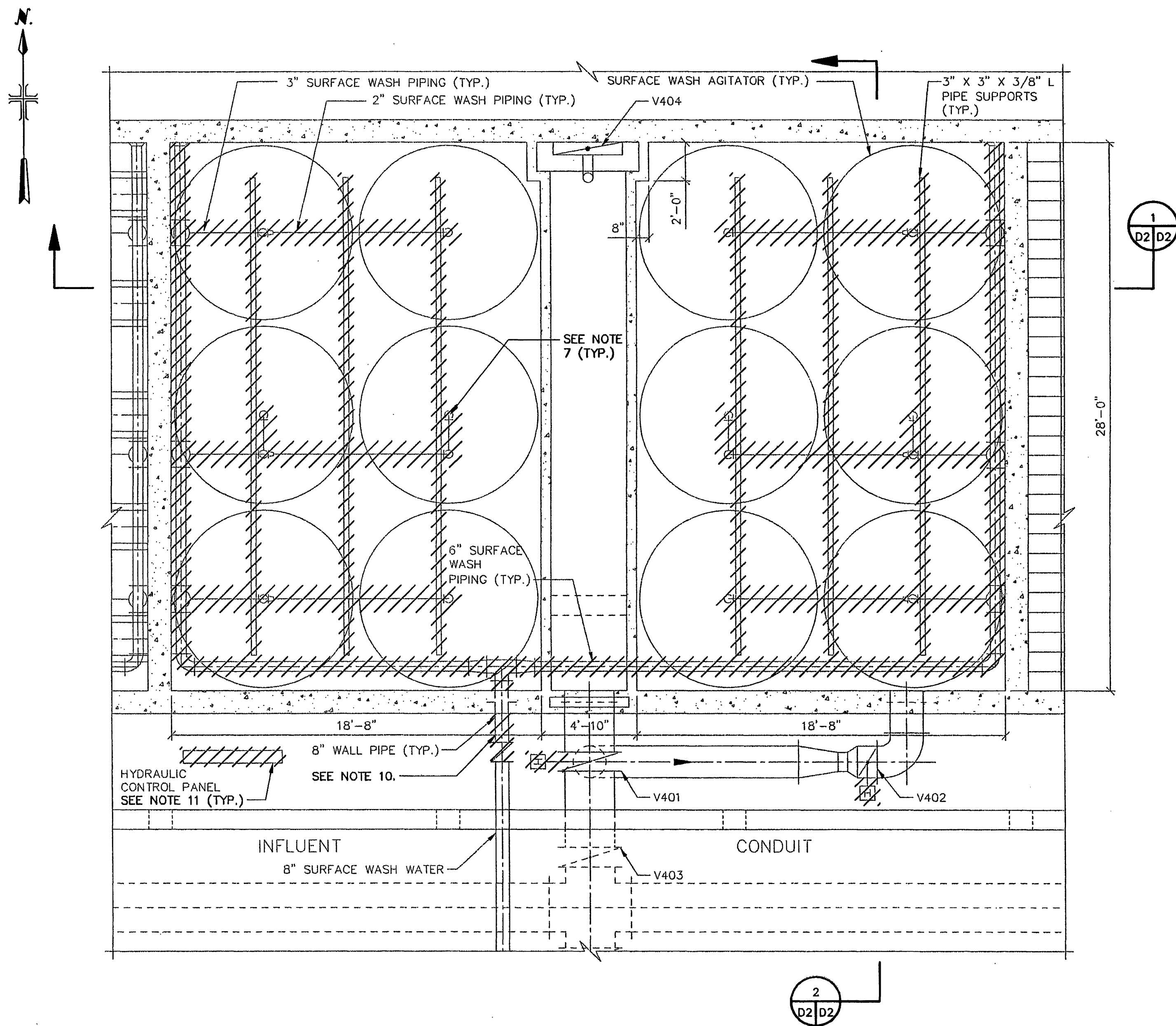


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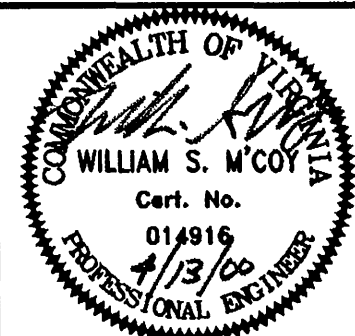


PARTIAL DEMOLITION PLAN FILTER 4 @ EL. 906 (TROUGHES NOT SHOWN FOR CLARITY)
(TYP. FILTERS 1-8)
SCALE: 1/4" = 1'-0"

NOTES:

- DEMOLITION WORK SHOWN ON THIS SHEET FOR FILTER NO. 4 IS TYPICAL FOR ALL FILTERS CONTRACTED TO BE REHABILITATED.
- DEMOLISH UNDERDRAINS, SUPPORT GRAVEL AND MEDIA.
- DISCONNECT SURFACE WASH PIPING AT 8-INCH WALL PIPE AND DEMOLISH ENTIRE SURFACE WASH SYSTEM, INCLUDING ALL PIPING SUPPORTS AND AGITATORS. 8-INCH WALL PIPE TO REMAIN.
- DEMOLISH 8-INCH SURFACE WASH PIPING, INCLUDING ALL VALVES AND SUPPORTS, IN FILTER GALLERY BACK TO FLANGED END OF PIPE CAST INTO INFLUENT CONDUIT WALL. 8-INCH SURFACE WASH WATER PIPE CAST INTO INFLUENT CONDUIT WALLS TO REMAIN.
- REMOVE HYDRAULIC ACTUATORS ON THE FOLLOWING VALVES ASSOCIATED WITH FILTER: FILTER INFLUENT, FILTER EFFLUENT, FILTER WASH WATER, FILTER WASH WATER DRAIN. ALSO REMOVE ASSOCIATED HYDRAULIC SUPPLY PIPING, VALVES AND SUPPORTS SERVING ACTUATORS TO BE REMOVED. HYDRAULIC SUPPLY PIPING SHALL BE REMOVED BACK TO HYDRAULIC CONTROL PANEL.
- FILTERS GENERALLY CONSIST OF 14-INCHES OF SUPPORT GRAVEL, 10-INCHES OF SAND AND 20-INCHES OF ANTHRACITE.
- COMPLETELY REMOVE 2-INCH DIA. WASH WATER PIPING WHICH PASSES THROUGH CONCRETE WASH WATER TROUGH. PATCH VOID LEFT WITH NON-SHRINK, NON-METALLIC GROUT.
- VALVES AND LOCATIONS ARE TYPICAL FOR EACH FILTER. SEE VALVE SCHEDULE IN SPECIFICATION SECTION 13226 "FILTRATION EQUIPMENT", FOR A DESCRIPTION OF VALVES.
- REFER TO SPECIFICATION SECTION 02050 "DEMOLITION", FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- REMOVE AND DISPOSE OF VALVE, ACTUATOR, SUPPORTS, ASSOCIATED HYDRAULIC PIPING BACK TO HYDRAULIC CONTROL PANEL, AND ASSOCIATED CONDUITS BACK TO FILTER CONTROL CONSOLE.
- HYDRAULIC CONTROL PANEL SHALL BE DEMOLISHED, ALONG WITH ALL ASSOCIATED PIPING, VALVES, CONDUITS AND APPURTENANCES. SEE DETAIL THIS SHEET.
- DISPOSE OF ALL MATERIAL REMOVED OFF-SITE.

**MALCOLM
PIRNIE**
Independent Environmental
Engineers, Scientists & Consultants
11832 Rock Landing Drive, Suite 400
Newport News, Virginia 23606

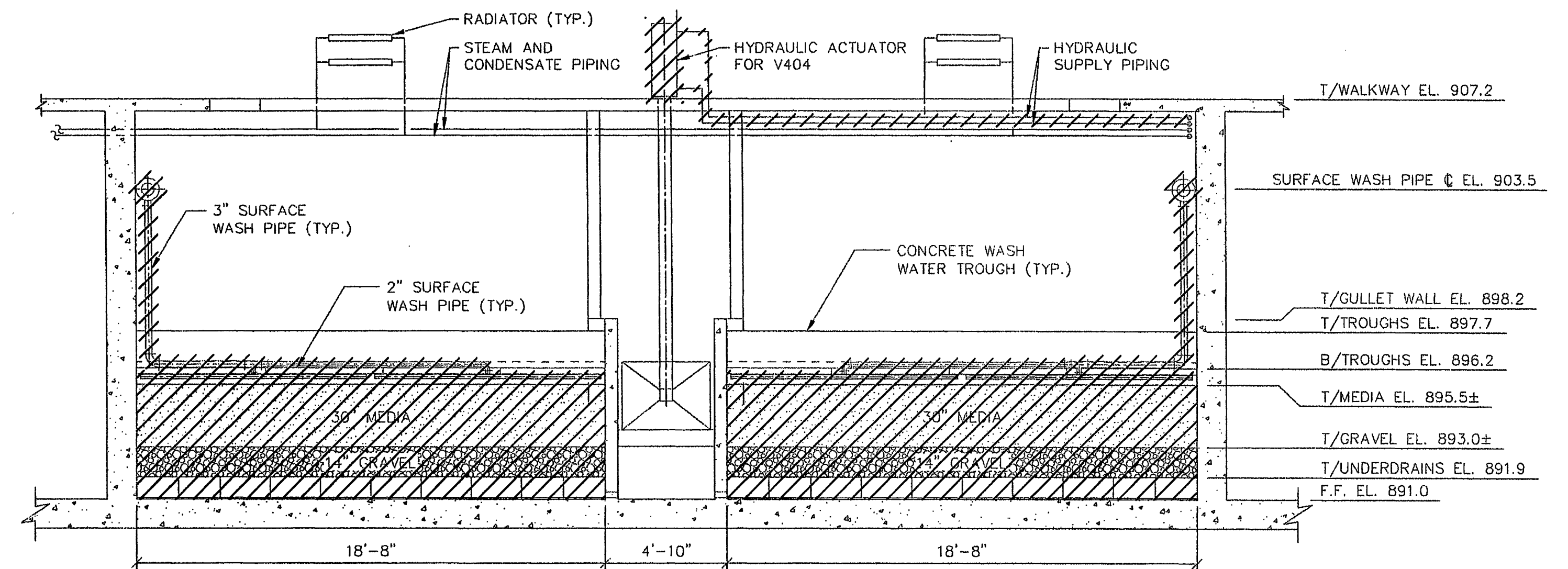


REVISIONS				REMARKS
NO.	BY	DATE		

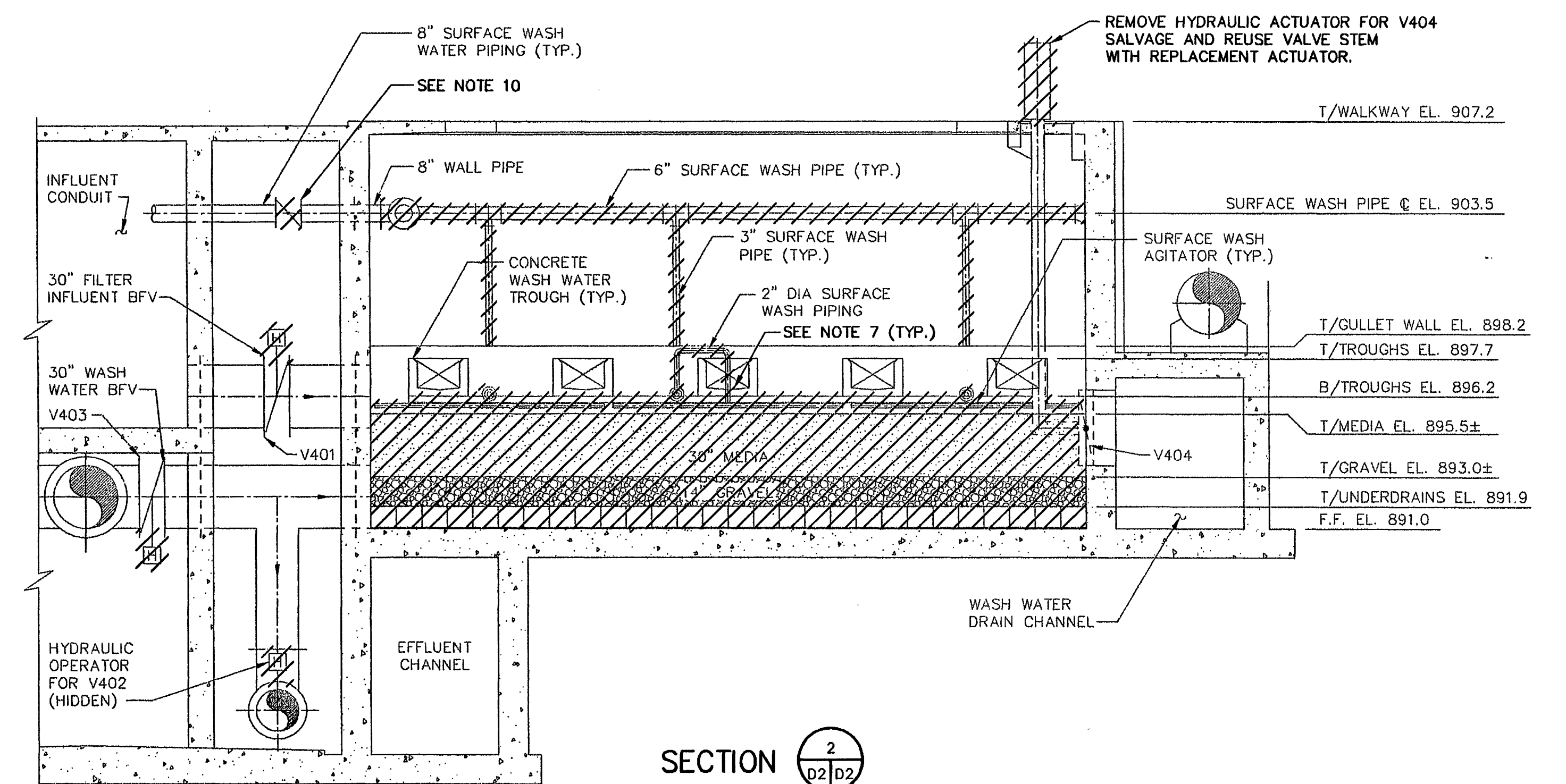
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CKD



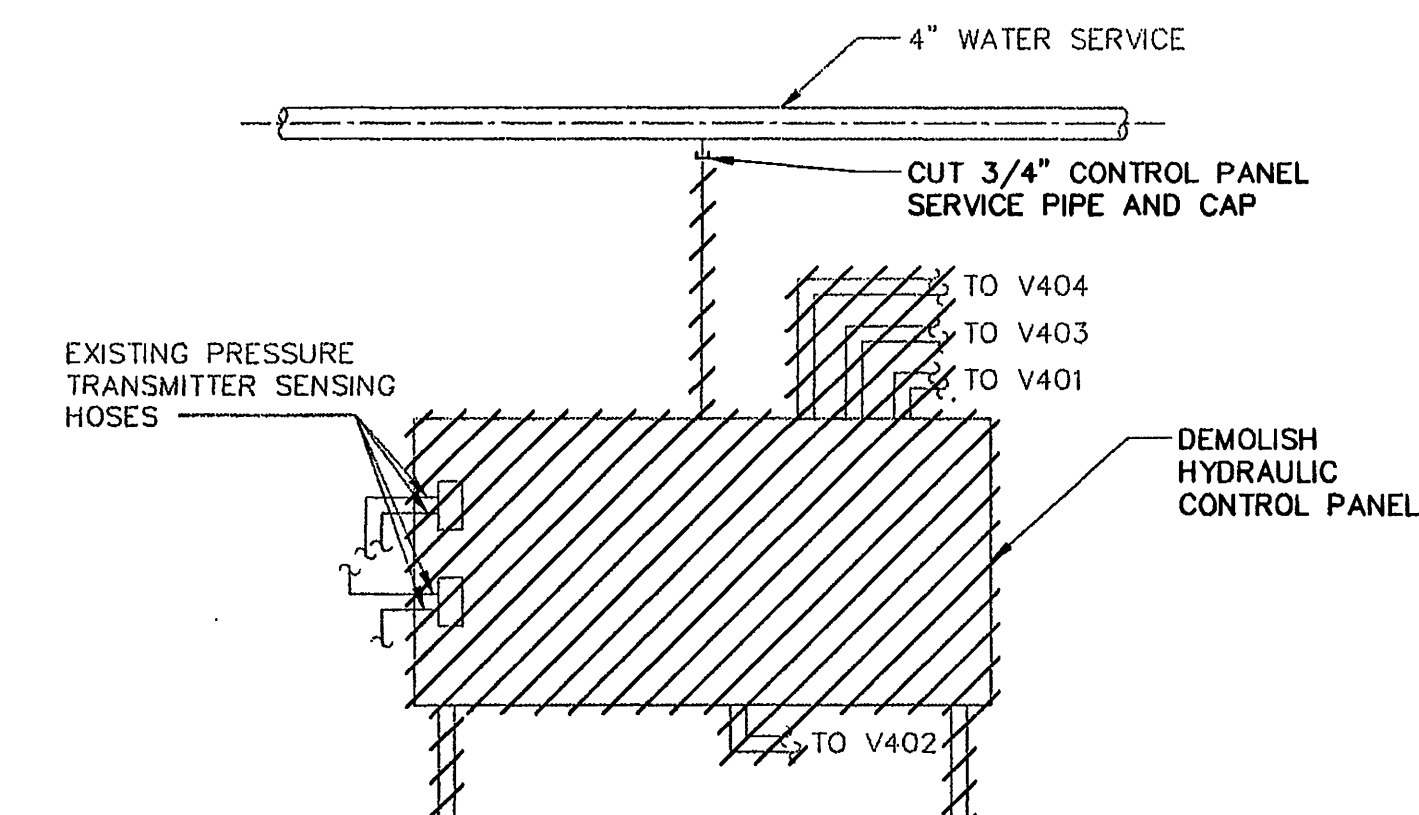
CITY OF ROANOKE, VIRGINIA
WATER POLLUTION
CONTROL PLANT
EFFLUENT FILTER REHABILITATION



SECTION 1
SCALE: 1/4" = 1'-0"



SECTION 2
SCALE: 1/4" = 1'-0"



HYDRAULIC CONTROL PANEL DETAIL
(TYPICAL FOR ALL FILTERS)
NOT TO SCALE

EFFLUENT FILTERS
DEMOLITION FILTER PLAN
AND SECTIONS
SCALE: AS NOTED

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DATE APRIL 2000
D SHEET 2 OF 2
CAD REF. NO. 0060002