

July 31, 1995  
by Rich Maurer

RESPONSE TO IVY EDMONDS COMMENTS ON MY DRAFT OF CONSTRUCTION  
IMPACTS ON TRANSPORTATION CORRIDORS AND AIR QUALITY

- THE PIPE SIZE WHICH HAS THE LARGEST TOTAL LENGTH IS 48".  
THE TOTAL LENGTH DEPENDS ON THE PROJECT. ALL OTHER PIPE SIZES,  
FROM 8" TO 60", COMBINED EQUAL ABOUT 1.5 TIMES THE TOTAL OF  
THIS PIPE SIZE. ✓
- IN GENERAL, ALL PIPING TRENCHES WILL REQUIRE ABOUT 8" ✓  
EXCAVATION BELOW THE PIPE BOTTOM, AND 4 FT COVER OVER PIPE
- I THINK IT IS REASONABLE TO ASSUME TWO CONSTRUCTION CREWS  
WORKING SIMULTANEOUSLY FOR INSTALLING THE MANY MILES OF  
PIPELINES.
- WITH TWO CREWS WORKING, SOME MILES APART, ON THE PIPELINES, IT  
IS REASONABLE TO ASSUME THAT EACH WOULD HAVE ITS OWN ACTIVE  
STAGING AREA. BECAUSE OF THE MANY MILES OF PIPELINE, MULTIPLE  
STAGING AREAS MAY EVENTUALLY BE USED, BUT ONLY TWO WORKED ON  
ANY GIVEN DAY.
- THE APPROXIMATE LENGTHS OF BURIED PIPE FOR EACH PROJECT ARE AS  
FOLLOWS:  

PROJECT	8" TO 24"	30" TO 60"
2	150,000 FT	150,000 FT
3	125,000 FT	100,000 FT
4	NONE	185,000 FT
5	NONE	50,000 FT
- THE AVERAGE LENGTH OF TRUCK TRIPS FOR PIPELINE CONSTRUCTION  
DISPOSAL OF EXCAVATED SOILS AND FOR TRANSPORT OF PIPE SECTIONS  
FROM STAGING AREA TO SITE OF WORK IS ASSUMED EQUAL TO 3 MILES.  
IT IS IN THE CONTRACTOR'S ECONOMIC INTEREST TO KEEP THIS SHORT  
AND WE ASSUME HE WILL LOCATE PRIVATE PROPERTY OWNERS WITHIN  
THAT DISTANCE TO TAKE THE MATERIAL.
- CONSTRUCTION DURATION IS BASED ON 5 DAYS/WEEK,  
8 HOURS/DAY OF ACTUAL PIPELINE WORK
- A TUNNEL FOR PIPELINES INLET TO SOME RESERVOIRS ARE PROPOSED  
FOR TWO ROCK RESERVOIR AND TOLAY/SEARS POINT RESERVOIRS ONLY.  
THE TWO ROCK TUNNEL WOULD BE LOCATED THRU THE RIDGE JUST ABOVE  
THE NORTH SIDE OF THE RESERVOIR. THE TOLAY TUNNEL WOULD BE  
LOCATED THRU THE RIDGE ABOVE THE NORTHWEST SIDE OF THE

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RESERVOIR, BOTH WITHIN 1/4 MILES OF THE RESERVOIR.

- THE PROPERTY NEEDED FOR THE PUMP STATIONS VARIES DUE TO THE TYPE AND SIZE OF THE STATIONS THEMSELVES. THE LARGEST STATIONS (FOR THE GEYSERS PROJECT) WOULD REQUIRE ONE ACRE EACH. MOST OF THE OTHER STATIONS WOULD REQUIRE LESS THAN 1/8 ACRE EACH. EACH RESERVOIR WOULD HAVE AN ASSOCIATED PUMP STATION LOCATED JUST DOWNSTREAM OF THE DAM ON RESERVOIR PROPERTY AND OCCUPY ABOUT 1/8 ACRE. SEE THE PUMP STATION LIST FOR PROPERTY SIZES.
- AN ESTIMATE OF THE REQUIRED IMPORT VOLUMES OF CONSTRUCTION MATERIALS NEEDED TO CONSTRUCT THE RESERVOIR DAMS WILL BE FURNISH BY AUG 7, 1995 FOR THE DAM SITES STUDIED BY RUST. THE ESTIMATE FOR THE OTHER SITES WILL BE FURNISHED LATER IN AUGUST AFTER RUST COMPLETES THEIR WORK.
- WE WILL FURNISH, FOR ON-SITE CONSTRUCTION SOILS AND FOR IMPORTED MATERIALS, AN ESTIMATE OF THE VOLUME OF SOILS WHICH MUST BE MOVED TO CONSTRUCT THE DAMS, THE NUMBER OF HAUL TRIPS AND THE AVERAGE DISTANCE OF HAUL.
- DISPOSAL OF SPOILS MATERIALS FROM THE RESERVOIR SITES PRIOR TO CONSTRUCTION WILL, MOST LIKELY, BE TAKEN TO A SANITARY LANDFILL. ASSUMING THE COUNTY LANDFILL WEST OF STONY POINT ROAD, THE APPROXIMATE HAUL DISTANCE FOR WEST COUNTY RESERVOIR SITES WOULD BE 8 MILES, AND FOR THE SOUTH COUNTY RESERVOIR SITES WOULD BE 15 MILES.
- IT IS ANTICIPATED THAT MOST WORKMEN WOULD RETURN HOME IN THE EVENINGS AND COMMUTE TO THE WORKSITE EACH DAY BECAUSE THE CONSTRUCTION SITES ARE NOT REMOTE AND ARE ACCESSIBLE BY HIGHWAYS. THE AVERAGE LENGTH OF COMMUTE FOR THE WORKMEN WILL DEPEND ON THE PROJECT SELECTED, BUT WE ESTIMATE THIS COMMUTE AS FOLLOWS:

PROJECT	AVERAGE ONE-WAY WORKMAN COMMUTE
2	25 MILES
3	35
4	60
5	40

- AN ESTIMATE WILL BE PROVIDED SOON OF THE CONSTRUCTION EQUIPMENT USAGE, TYPE, AND HOURS OPERATION/DAY FOR CONSTRUCTION OF THE RESERVOIRS, PIPELINES, AND PUMP STATIONS

*See Attached Format*