ENVIRONMENTAL ASSESSMENT

FOR

WAILUPE RECONSTRUCTED TRUNK SEWER

WAILUPE, HONOLULU, OAHU, HAWAII

TAX MAP KEY:  3-05-22, 23 & 58

(NEGATIVE DECLARATION)

This document is prepared pursuant to Chapter 343, H.R.S.

PROPOSING AGENCY:
Department of Public Works
Division of Wastewater Management
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

RESPONSIBLE OFFICIAL:
SAM CALLEJO
Director and Chief Engineer

Prepared By:
Stanley Yim & Associates, Inc.
2850 Pāa Street, Suite 200
Honolulu, Hawaii 96819

1/2/92
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PROPOSING AGENCY: Department of Public Works
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650 South King Street
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RESPONSIBLE OFFICIAL: C. Michael Schock
SAM CALLEJO
Director and Chief Engineer

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1/2/92 Date
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I. STATEMENT OF OBJECTIVE

The objective of the proposed action is to repair and reconstruct the existing Wailupe Trunk Sewer Line and its manholes to restore the structural integrity and capacities for conveying the sewage flows from the designated tributary areas to another location for treatment and disposal. The work is part of the comprehensive wastewater management plan by the City and County of Honolulu for providing adequate and functional sewers to serve the people.

II. AGENCIES AND PERSONS CONSULTED DURING THE ASSESSMENT PROCESS

FEDERAL
   Corps of Engineers

STATE OF HAWAII
   Department of Land & Natural Resources
   Department of Transportation, Highways Division

CITY AND COUNTY OF HONOLULU
   Department of Transportation Services
   Department of Parks and Recreation
   Board of Water Supply
   Department of Land Utilization

OTHERS
   Kahala Hilton Hotel (Mr. Barry Braithwaite)
   Waialae Country Club (Mr. Alan Lum)
   The Kahala Beach Apartments (Mr. Robert Walden)
   All residents living along the alignment of the trunk sewer line and impacted by this work (See Appendix A).

III. DESCRIPTION OF PROPOSED ACTION

A. GENERAL INFORMATION

APPLICANT: Department of Public Works
   Division of Wastewater Management
   City and County of Honolulu
   650 South King Street
   Honolulu, Hawaii 96813

RECORDED FEE OWNER(S): (N/A)
   (Sewer lines and manholes belong to the City & County of Honolulu and are located in a 10 foot wide sewer easement over and across private properties. The easement is in favor of the City & County of Honolulu)

AGENT: Stanley Yim & Associates, Inc.
   2850 Paa Street, Suite 200
   Honolulu, Hawaii 96819
TAX MAP KEY: 3-05-22, 23 & 58

LOT AREA: (N/A - Project is not for the development of land but for the repair and reconstruction of the existing 36 years old Wai'alupe Trunk Sewer Line and its manholes)

The existing Wai'alupe Trunk Sewer Line was built about 36 years ago in 1955. It consists of approximately 2,000 feet of 30-inch and 4,400 feet of 36-inch diameter reinforced concrete pipes, sewer manholes, and the appurtenant side main and lateral connections. The trunk sewer line begins at the existing sewer manhole at the Kahala Wastewater Pump Station and travels across the grounds of the Kahala Beach Apartments, Kahala Hilton Hotel and Waialae Golf Course towards the shoreline, then along the oceanside of the residential lots along the coastline and onto the shoreline turning north at the last home and continuing on and ending at the existing sewer manhole on the makai side of Kalanianaole Highway. Map 1 of Land Court Consolidation 87 and City's Parcel Maps show the entire length of the sewer trunk alignment to be contained within an existing 10 feet wide sewer easement in favor of the City and County of Honolulu. The Project's location and its surrounding areas are shown on the next page as Figure 1.

B. EXISTING CONDITIONS

The sewer trunk line's physical condition has deteriorated considerably since 1955 and is now in various stages of disrepair as evidenced by the tapes from a video camera inspection of its interior taken in late 1988 and early 1989. Medium to heavy deterioration from hydrogen sulfide attacks on the interior concrete surfaces of the pipes were found throughout the alignment with signs of the heavier deterioration being at the crown of the pipes. At some locations, pipe reinforcing patterns have become noticeable indicating the severity of erosion of the inside walls over the years. Leaking joints allowing ground water to enter into the sewer system were also found at various locations. Some settlement as well as ground water infiltration at certain manholes were also found during the field inspection.

The Preliminary Engineering Report for this trunk line recommends repairs be made as soon as possible to avert potential collapses in the future. A collapse occurring along any particular section of this trunk line will certainly affect a major area of east Honolulu because the line serves all the homes, schools, businesses, parks, and other facilities from Kalani High School at the furthest west side of the tributary area to, and including, Niu Valley at the east limit. The south and north boundaries for this tributary area are the shoreline and the upper reaches of valleys and mountains respectively. Also located in the area are the Waialae Country Club and Golf Course complex, the Kahala Beach Apartments, and the Kahala Hilton Hotel facilities and grounds.
The trunk line was last cleaned in 1988. The work then was contracted out to a private contractor by the City. While it has been more than three years since this last cleaning, and in considering the present structural condition of the existing line, the next cleaning work should be deferred and performed just prior to, but together with, the trunk line repair and reconstruction work.

There are no alternate sewer line routes that could be made available for diverting the flows currently being conveyed by this sewer trunk line and for properly handling the sewage from the tributary area should a collapse occur anywhere along the trunk line's alignment.

The trunk line lies inside the designated Special Management Area and will need a Special Management Area use permit prior to commencing with any of the work. See Figure 2, next page. Additionally, various other agency approvals will also be needed and will be obtained at the time the construction plans are routed for agency reviews.

C. TECHNICAL CHARACTERISTICS

The work to repair and reconstruct the trunk line can be categorized into line cleaning, line reconstruction, manhole reconstruction, and the reconnecting of existing sewer side mains and laterals. The reconstruction work will use the cured in place pipe process. It is a process that accomplishes the work from the insides of the pipes rather than from the outside and thereby eliminates the need for massive trench excavations, shoring, dewatering, pipe replacement, trench backfilling, disturbance of existing ground features and the removal of plants along the entire length of the alignment.

The reconstruction work will access the sewer trunk line at various designated manholes. The work is tentatively planned to start after the Hawaiian Open in February 1992 and end sometime in late August or September 1992.

The full length of the alignment will be sectioned off into three sections for the work. Each section will be isolated prior to the cleaning by having the flows intercepted and pumped to a temporary bypass line. Two upstream manholes for each of the three sections will be involved in the bypass operation. The first manhole will accommodate the primary bypass pump while the second manhole, upstream of the first, will be used for the backup bypass pump. Once the bypass pumps and lines are in place and operational, the cleaning for that particular section of line will commence. The line will then be inspected for major damaged areas and those found will be repaired prior to starting the cured-in-place pipe (CIPP) process. Each manhole will be checked for damages and repaired as needed using the Strong process.

The temporary bypass sewer-line alignment is shown in Appendix B. It begins at Kalanianaole Highway and will travel along the existing sewer easement from sewer manholes 28 to 13 for the first section.
The bypass continues along the sewer easement from sewer manholes 16 to 8 for the second section. The bypass line alignment for the third section will turn and travel along the out-of-bounds area through the Waialae Golf Course and along the existing road outside of the Waialae Country Club rather than along the beach area. The bypass for the third section diverts inland to accommodate the beach users from the Kahala Hilton Hotel and the Kahala Beach Apartments. The bypass sewer line will be 12 inch diameter hard piping laid on the ground surface except at existing driveways where it will be buried to accommodate pedestrian and vehicular traffic. The bypass line will be closely monitored by the Contractor for leaks. Water tightness of the bypass line will be maintained.

In addition to the hard piping bypass lines, there will also be side tributary bypasses using pumps and 6 inch diameter flexible hoses. These are located as follows,

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
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<tbody>
<tr>
<td>Section 1</td>
<td>Sewer manhole across from SMH 21</td>
</tr>
<tr>
<td>Section 2</td>
<td>Sewer manholes 14 and 15</td>
</tr>
<tr>
<td>Section 3</td>
<td>(not yet determined)</td>
</tr>
</tbody>
</table>

The width for the existing sewer easement is only 10 feet wide. This width may have been adequate over the years for servicing and maintaining the existing trunk line. It is, however, insufficient for work space for the repair and reconstruction work for the system. Temporary work easements will be needed to accommodate the work activities. The temporary work easements will be limited as much as possible to those specific locations designated for access and for inversion sites for the work. Appendix B shows the proposed work phasing along with those locations needed for accesses and for inversion sites.

The temporary work easements at the inversion sites will be about 30 feet square, more or less, pending actual field conditions at the particular sewer manhole location. Manholes 3, 4, 8, 8A, 12, 15, and 20 are the planned inversion sites. The properties located immediately next to these manholes will be affected by these temporary work easements. Accesses will also be needed to get vehicles, equipment, material, and the work force to and from the manholes. They will be along the private road (Keahia Way), over and across open lots (Parcels 3-05-22:08 and 3-05-58:08), over and across the upper limits of the beach area, over and across the service road and golf paths along the rough in the Waialae Golf Course, and over and across a portion of the Waialae Country Club parking lot. Accesses will also be needed over and across the Kahala Beach Apartment property and the Kahala Hilton Hotel grounds. It will be necessary to gain access to the existing sewer manhole in the Hala Restaurant to clean and install flow through plugs to control flows during the work.

The work activities will be coordinated closely on an ongoing basis with the affected homeowners and the management and staff for the Waialae Country Club and Golf Course, the Kahala Beach Apartments, and the Kahala Hilton Hotel. The Contractor for this
project will also be expected to continue and maintain the coordination efforts as needed during the work period.

D. ECONOMIC AND SOCIAL CHARACTERISTICS

The proposed project cost is estimated to be about $5,000,000 dollars.

The construction time should be between 6 to 8 months, notwithstanding inclement weather and other unexpected conditions beyond the Project's control.

There will be no realignment of the existing sewer trunk line and hence no new permanent sewer easements are anticipated. The temporary work easements to be created will not be over and across every parcel of land but limited and contained only to and near to those areas designated to be access points for the work.

A set of the reduced preliminary plans showing the proposed work and the alignment of the trunk line is attached as Appendix C. Being preliminary plans, the work on the drawings is presently ongoing.

E. AFFECTED ENVIRONMENT

The project is not expected to cause any major disturbances to natural features in the area nor will it result in considerable trenching work or other kinds of work that would substantially disturb the environmentally sensitive lifeforms and areas. The entire project site is along the Waialae coastline as well as over and across the Waialae Country Club and Golf Course grounds, the Kahala Beach Apartments, and Kahala Hilton Hotel properties. The Contractor will be required to replace and restore all work areas back to their original conditions after he completes the work. Drainage and surface runoff patterns will not be disturbed nor changed by the work and will continue to remain the same both prior to, during, and after the project's completion.

No historic, cultural, and/or archaeological resources are expected to be disturbed by this by this project.

The nature of the work will not permanently affect any coastal views from any vantage point. However, there will be a temporary impact on the coastal views since the bypass pumps, lines, and the work force attending to them will be using the upper limits of the beach areas to move around. Also, being that the entire alignment for the trunk line is along the coastline, the work activity, the inversion sites, and the bypass pumps and lines will be visibly noticeable during the project term.
IV. PROJECT IMPACTS

A. SHORT TERM OR CONSTRUCTION RELATED IMPACTS

There will be several other short term construction related impacts resulting from the work for this Project. The impacts, while an inconvenience, will be both temporary and localized. The impacts involve: the use of a portion of Wailupe Beach Park for storage activities and an inversion site; the temporary closing off of the rightmost traffic lane of Kalanianaole Highway; the noise created from the cleaning of the sewer trunk line; the movement of solids from the sewer trunk line during cleaning to the park for temporary storage; the odors generated by the solids removed from the lines by the cleaning process; the noise from the equipment used for the wetting out, inversion, and curing processes for the insituform placement; the temporary inconvenience to normal service for the homes, businesses, and activities connected to the sections of sewer lines placed out of service (bypassed); and the around the clock work once the insituform process is started. Additional short term impacts will be the presence of a work force and their activities along the length of the shoreline for the placement and removal of the bypass equipment and pipes.

1. Use of Wailupe Beach Park - Current planning for the Project is based on using the western half of Wailupe Beach Park for a construction storage area as well as an inversion site. The Park’s existing parking lot and boat launch area will not be affected and will remain available for use by the public. The Park plays a significant role in that it provides the only major open space and access in the immediate vicinity that can be readily used by the Contractor for his field office, work plant, storage yard for materials and equipment, and an inversion site. The existing sewer line alignment turns almost right angles at the shoreline next to the park. Access to the sewer manhole at this location for cleaning and reconstruction work, as well as for access to other sections of the trunk line along the shoreline can be readily achieved through the park. Accessing the trunk line at this manhole for work in the upstream direction will also eliminate the need to close off the rightmost traffic lane in Kalanianaole Highway during peak and night hours. The storage and work areas in the park will be fenced off for public safety and security reasons during the construction period. Appendix D shows the park area anticipated for use by the Project. The Contractor will restore the areas in the park used by this project to the original conditions upon completion of the work.

2. Closing off of the rightmost traffic lane in Kalanianaole Highway - The rightmost traffic lane in Kalanianaole Highway must be temporarily closed to prepare the first section of the trunk line for bypassing and cleaning. However, it is expected that most of this preparation work can be performed during normal daylight working hours and the use of the closed traffic lane will be restored at least by 3:30pm daily for the heavy afternoon traffic flows.
A second existing sewer main crosses Kalanianaole Highway and connects to the trunk line to be repaired and reconstructed. In order to bypass the first section of the trunk line for the proposed work, it is necessary that the flows in this second sewer main be intercepted on the mauka side of the highway and diverted to the bypass line. The Contractor plans to accomplish this by installing pumps and a temporary bypass line along the mauka shoulder of the highway but well away from the nearest traffic lane. The bypass line will extend towards Koko Head to the existing stream crossing, over the edge of the concrete channel wall to the its bottom (which usually has light drainage flows in it depending upon the time of year), along the side of the channel bottom, under the highway, then back up the channel wall and along the makai shoulder of the highway to connect to the bypass line for the first section of the trunk line. At the connection point, there will be another bypass connection intercepting the upstream flows in the trunk line itself.

The existing sewer manhole in the highway to be used for bypassing upstream flows in the trunk line will be modified during the normal working hours and the work is planned to be completed by 3:30pm on any workday.

3. Noise - Although CIPP reconstruction minimizes the amount of environmental and local disruption in comparison to dig and replace methods, noise, lights, equipment and personnel movement, and related activities will still occur during the project. Noise will be generated throughout the entire work period. It will be from the pumps for the bypass operations, the vacuum units for cleaning the trunk line, the hydraulic power plants and inversion equipment for the wetting out, inversion, and curing of the new lining, and other miscellaneous vehicles and equipment for moving materials and personnel.

All the cleaning work can take place during normal daylight working hours and, therefore, the noise from this activity can be suspended at the end of the normal work day which is 3:30pm.

The Contractor is expected to keep noise levels well within that permitted by Title II of the Department of Health’s Administrative Rules, Chapters 42 and 43 during the wetting out, inversion, and curing periods. However, in the event some noise should exceed the permitted levels, and the Contractor cannot reasonably reduce the levels, he must obtain the necessary noise permits prior to starting work. Compliance with noise levels and obtaining permits for this activity is vital since the work for this activity includes around the clock work for each of the three sections that may last 3 consecutive weeks per section due to the resin materials. The normal 8 hour work day cannot be adhered to once the work
involving resin materials commences. When the wetting out process begins, the work activity cannot stop until the curing process has been fully completed. The noise during the curing period however, should not be loud and bothersome. Most noise sources will be from either engines or generators. The Contractor might possibly be able to reduce noise levels by using electrical motors rather than mechanical engines. However, this is possible only if the needed power drops can be made available at the designated locations by the Hawaiian Electric Company. The designated power drop locations would be in the vicinity of sewer manholes 15, 27, and 28 for Phase One, the same sewer manhole 15 for Phase Two, and sewer manhole 4 for Phase 3.

Inversion locations have been chosen to allow for both upstream and downstream inversions. In this manner, the inversion equipment will only have to be erected and dismantled around eight times throughout the Project.

4. Odors - Odors may be noticeable at times when the existing manholes are first opened and when the trunk line is being cleaned. The Contractor will use Eliminaol, a deodorant, to neutralize the odors encountered. About 400 tons of solids is expected to be removed from the trunk line during the cleaning process. The material removed will be mostly silt, sand, gravel, corroded pipe, rocks, etc. with some sewage solids mixed in. It will be temporarily stockpiled at the park in a watertight dump pit for removal to a disposal site elsewhere. Deodorant will also be used at the stockpile site as needed to counteract odors that may emanate from the material. The stockpiled material will be removed by the Contractor in an expedient manner and on a timely basis. The material will not be permitted to remain at the stockpile site for lengthy periods.

5. Temporary Bypass Sewer Lines - The Project requires the use of temporary bypass sewer lines to divert sewage flows while the trunk line is being cleaned, repaired, relined, and checked. Except for the third section, all the bypass alignment will be within the existing sewer easement. The bypass alignment for the third section will deviate from the easement alignment and travel over and across the Wai'alae Golf Course and other private property. Rights of entries and approvals will be needed from all affected owners along the trunk line's alignment for the placement and removal of the bypass pumps, pipelines, and equipment regardless of whether or not the bypass lines will be laid in or out of the existing sewer easement. Vehicles, pumps, pipes and personnel activity will also need access to beach areas. The Contractor is expected to keep disturbances to existing plants and foliage to a minimum when placing and removing the temporary bypass lines and equipment. All disturbed and or damaged areas will be restored to their original condition by the Contractor after the bypass lines, pumps and equipment have been removed.
6. Temporary shutdown of sewer services - There will be a temporary but not complete shutdown of sewer services for the section of trunk line bypassed. The temporary reduction in service will begin once the bypass for that particular section of line becomes operational and the cleaning work begins. No upstream flows in the trunk line and sewage from the side mains will be permitted to enter the trunk line after it has been cleaned and prepared for the repair and reconstruction work. Full service for the line will be restored only after the relining work for the particular section has cured properly, the manholes for that same section repaired and relined, the side mains and laterals reconnected, and the finished work inspected and approved.

The temporary inconvenience caused to sewer services will affect two groups. The first group includes the individual homeowners directly connected to the trunk line along the alignment while the second group includes the businesses and resort activities such as the Waialae Country Club and Golf Course, the Kahala Beach Apartments, and the Kahala Hilton Hotel. The CIPP process will not require relocating any of the affected residents while the work is being performed. While some inconvenience will be experienced during the work, the affected homeowners will still be allowed limited use of their plumbing during the reconstruction work. The inconvenience to the residents will be minimized, and no home will be prohibited from using the sewer system. The residents though, will be asked to minimize their water usage during the installation of the CIPP. The inversion process enables the new lining to push forward any sewage that may enter the trunk line from the laterals after the cleaning work. There will be enough water collected in front of the new lining tube as it is forced into the trunk line during the inversion process to help push any sewage in front of it out of its way as it unfolds.

The work will take about 4 to 8 weeks for each of the three sections to complete. This length of time requires all the flows from the connecting side mains to be bypassed entirely since the side mains must remain in continuous service during the reconstruction work. On the other hand, the individual houses will still be allowed use of their laterals and will not be affected by the reconstruction work. It will not be necessary to temporarily relocate the affected homeowners during the reconstruction work. However, as for the Country Club, the Apartments, and the Hotel, the flows will be bypassed entirely to minimize inconvenience to their operations.

B. LONG TERM IMPACTS

The long term impact is the existing Wailupe Trunk Sewer Line will be restored to a structurally sound condition resulting in a functional system with adequate capacities to serve the people in the tributary area for many more years.
V. ALTERNATIVES CONSIDERED

A. NO ACTION

No Action was not considered since the existing trunk line is an important and critical link in the sewer system that serves a large tributary area in East Honolulu. The line was built in 1955, over 35 years ago. It has deteriorated with the passage of time and its present condition is poor. Repairs are needed to extend its service life. There are no other sewer trunk lines in the area that can be depended upon and made available for replacing this trunk line should it experience any problems or collapses.

B. RECONSTRUCTION BY CIPP METHOD

Repair and reconstruction work using the cured in place pipeline technology as per ASTM F-1216 for the existing trunk line is the best alternative insofar as minimum disturbance to the environment and surrounding properties is concerned. This alternative is also the most cost effective of the three alternative choices.

C. RECONSTRUCTION USING STANDARD METHODS

Reconstruction work using standard methods for the existing trunk line will require major excavation work; the removal and reconstruction of existing walls, fences, and walks; the removal and replacement of existing trees, plants, and shrubbery; the tearing up and replanting for a portion of the Waialae Golf Course; the digging up and repaving for a part of an existing parking lot; trench shoring for all excavations; dewatering (with the potential of subsidence to surrounding homes and swimming pools); and pipe laying. The work will also be in cramped and crowded spaces because all the homes and swimming pools in the surrounding areas are already built. There are also many areas where there will not be enough space to permit reconstruction using the standard methods.

The time needed to reconstruct the trunk line using standard construction methods will be considerable. The alignment could possibly be maintained but the lack of adequate work space will severely impact on the heavy equipment movement and the Contractor being able to get the work done. Also, this alternative is definitely not cost effective.

VI. PROPOSED MITIGATION MEASURES

A. This section describes the mitigating measures that would pertain to the short term impacts associated with the construction work for this project. No negative long term impacts are expected from the project and, therefore, no mitigating measures for long term impacts are discussed.

1. Noise - An increase in noise level will be experienced during the construction work, especially by those homes near the access points for the repair and reconstruction work. The
noise sources will be the various pieces of equipment needed for the work activities which would include heavy vehicles for cleaning and removal of debris from the sewer line, importation and placement of materials, and other power equipment.

To mitigate adverse impacts resulting from the work activities, the contractor will be responsible for properly maintaining all construction equipment to keep noise levels at a minimum during the construction operations. If noise levels are expected to exceed the allowable levels called for under Title II of the Administrative Rules, Department of Health, Chapter 43, the contractor will be required to obtain the necessary noise permits prior to commencing with any of the work. In addition, any heavy vehicle required for the construction work must also comply fully with Title II of the Administrative Rules, Department of Health, Chapter 42, Vehicular Noise Control for Hawaii.

The Contractor shall use electrically powered equipment in lieu of mechanical engines and or motors whenever possible - especially for the around the clock work and during the curing periods. The electrically driven motors and equipment will help to reduce noise levels considerably.

Otherwise, the Contractor will use sound screens when necessary to minimize the noise from the hydraulic power plants, vacuum cleaning units, and inversion equipment. Noise levels in the range of 60 to 80 decibels will be produced at a distance of 50 feet.

2. Air Quality - Ambient air quality is expected to be temporarily impacted by dust generated from the construction work. In keeping with the State Health Department's regulations, and the applicable City and County of Honolulu's ordinances, the contractor will be required to take measures to minimize airborne pollutants.

Emissions generated by the various construction equipment can also affect the ambient air quality. However, with the proper equipment and maintenance by the contractor, the adverse impacts caused by emissions from equipment can be controlled and minimized.

The Contractor will erect temporary dust screens when necessary along the alignment to further minimize dust problems to the neighboring homes, apartments, and resort activities.

3. Water Quality - The repair and reconstruction work should not adversely affect the water quality of the surrounding area. There will be no major grading work nor any major construction work that would lead to adverse impacts upon the water quality for the area. The stockpiling of the material
removed from the trunk line during the cleaning process will be at the park site in a watertight detention basin. Therefore, no mitigating measures for water quality need be discussed.

4. Erosion Control - Sedimentation and erosion potential for the project is minimal if any. There is no need for specific erosion control measures to be developed as there are no major earthwork excavations or trenching involved with the work. The Contractor however, will still be expected to keep the construction areas clean, and contain all the activities only to the work areas.

5. Traffic - During construction, trucks, heavy equipment, and other construction related vehicles will use the existing roads to access, import, place, and haul away material. Local traffic flow along the construction route may occasionally encounter some inconveniences but, should be minimal. The contractor shall keep such inconveniences to a minimum. The Contractor shall also be responsible for providing the necessary traffic controls and precautions to maintain traffic safety on the roads bordering, near to, as well as at the construction site.

6. Flora and Fauna - There are no known rare or endangered species of flora or fauna in or around the proposed project site. The plants encountered are basically coconut trees, naupaka, and small shrubs commonly found along the coastal areas of the island. Being that most of the work will be contained to the designated access and temporary work sites, and within the existing sewer easement, and only the temporary bypass pipeline will be along the surface of the alignment, the project does not anticipate any permanent tree or plant removal or damage. Any plants moved to another location by the Contractor to create work space will be moved back to its original location and the area restored to its original condition by the Contractor after the work has been finished.

7. Economic - The short term impact from the construction work include the provision of jobs to local construction personnel. Local suppliers, and retail businesses will also benefit through a multiplier effect from the increased construction activity.

8. Public Health and Safety - The necessary measures to assure public health and safety shall be provided by the contractor through all phases of the work. The construction areas shall be properly secured through the adequate use of signs, barricades, fencing, and other devices as required by both the State and City regulations during all non-working hours.

VII. DETERMINATION

The assessment shows that there will be no significant effect on the environment by the work for this project and that the preparation of an
Environmental Impact Statement is not required. A negative declaration for the project is recommended.

VIII. FINDINGS AND REASONS SUPPORTING THE DETERMINATION

1. The project is basically a repair and reconstruction type of project requiring immediate action.

2. No rare or endangered species of flora and fauna was found in the project area.

3. No known natural, historic, or archaeological sites were found or are known to be affected by the project.

4. Except for the temporary construction impacts, the proposed project will have no significant long term adverse effects on the environment.

5. The major benefit from the work for this project is a structurally sound sewer trunk line with adequate capacities for continued service to the public in the tributary area for many more years. Potential breakage and collapses to the trunk line that can lead to major inconveniences and unsanitary conditions will no longer be a threat to the trunk line’s performance.
APPENDIX A

List of Lot Owners
along the
Wailupe Sewer Trunk Line Alignment
APPENDIX B

Proposed Work Phasing

and

Access Point and Temporary Work Easement Locations
## TEMPORARY ACCESS & WORK EASEMENT NEEDS

<table>
<thead>
<tr>
<th>Access Req. for Vehicles</th>
<th>Inversion Site @ SMH</th>
<th>Property Affected</th>
<th>Nature of Work to be Performed</th>
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</thead>
<tbody>
<tr>
<td>to SMH 20</td>
<td>20</td>
<td>Waiulu Beach Park/Beach Area</td>
<td>cleaning &amp; inversion</td>
</tr>
<tr>
<td>to SMH 18</td>
<td></td>
<td>TMK: 1-03-05-22:08</td>
<td>cleaning</td>
</tr>
<tr>
<td>to SMH 15</td>
<td>15</td>
<td>Keahina Way/Beach Area</td>
<td>cleaning &amp; inversion</td>
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<tr>
<td>to SMH 12</td>
<td>12</td>
<td>TMK: 1-03-05-58:08</td>
<td>cleaning &amp; inversion</td>
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<tr>
<td>to SMH 8A</td>
<td>8A</td>
<td>Waialae Golf Course/Beach Area</td>
<td>cleaning &amp; inversion</td>
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<td>to SMH 8</td>
<td>8</td>
<td>Waialae Golf Course/Beach Area</td>
<td>cleaning &amp; inversion</td>
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<td>to SMH 6</td>
<td></td>
<td>Kahala Hilton Hotel premises</td>
<td>install flow thru plugs</td>
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<td>to SMH 4</td>
<td>4</td>
<td>Kahala Beach Apts/Beach Area behind Waialae Country Club</td>
<td>cleaning &amp; inversion</td>
</tr>
<tr>
<td>to SMH 3</td>
<td>3</td>
<td>Waialae Country Club parking lot</td>
<td>cleaning &amp; inversion</td>
</tr>
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**NOTES:**

1. Temporary work easements, approximately 30" square required at the inversion sites. Final configuration to be set @ design.
2. Access easements are required to get vehicles, equipment, men & materials from the public roadways to & from the inversion sites. Existing roads & golf paths can be used.
3. SMH 6 is in the Hala Restaurant at the Kahala Hilton Hotel. Access is required to install flow thru plugs in the side mains to control flows during the work.
APPENDIX C

Preliminary Construction Plans
# CONSTRUCTED SEWER

**Location:** Oahu, Hawaii

**Dates:** 3-5-22, 23 & 58

**Prepared By:** L & Associates, Inc.  
1000 Bishop Street, Suite 200  
Honolulu, Hawaii 96819

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<td>GENERAL PLAN</td>
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<td>PHASING WORK &amp; ACCESS POINTS</td>
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<td>CONSTRUCTION NOTES PLAN</td>
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<td>ACCESS &amp; WORK AREAS (GOLF COURSE, HOTEL &amp; KANALOA BEACH APARTMENTS)</td>
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<td>TRAFFIC CONTROL PLAN</td>
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**Director and Chief Engineer, Department of Public Works:**  
C. Michael Smith  
12/1/91  
Date

**Chief, Environmental Management Division, Department of Health, State of Hawaii:**  
12/1/91  
Date

**Chief, Highways Division:**  
State Department of Transportation (Approval granted for work within State right-of-way only. Letter of approval No. HRW-01 dated _______________)

**Sheet No. 1 of 20 Sheets**
CONSTRUCTION NOTES:

1. All construction work shall be performed in accordance with the standard specifications for public works construction published by the City and County of Honolulu, the State of Hawaii, and the City of Honolulu.

2. The underground pipes, cables, or ducts shown on the plans shall be installed, if possible, in accordance with the standard specifications for public works construction published by the City and County of Honolulu, the State of Hawaii, and the City of Honolulu.

3. The contractor shall ensure that all necessary signs, lights, planters, barriers, shelves, and other protective enclosures are provided and maintained, if necessary, by the contractor.

4. The contractor shall provide, install, and maintain all necessary signs, lights, planters, barriers, shelves, and other protective enclosures, if necessary, by the contractor.

5. The contractor shall provide, install, and maintain all necessary signs, lights, planters, barriers, shelves, and other protective enclosures, if necessary, by the contractor.

6. The contractor shall apply for a construction permit with the noise pollution control plan.

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT OF WAY:

1. The contractor shall obtain the necessary permits prior to commencing construction work within the State right-of-way.

2. The contractor shall provide, install, and maintain all necessary signs, lights, planters, barriers, shelves, and other protective enclosures, if necessary, by the contractor.

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16. The contractor shall provide, install, and maintain all necessary signs, lights, planters, barriers, shelves, and other protective enclosures, if necessary, by the contractor.

17. The contractor shall provide, install, and maintain all necessary signs, lights, planters, barriers, shelves, and other protective enclosures, if necessary, by the contractor.

18. The contractor shall provide, install, and maintain all necessary signs, lights, planters, barriers, shelves, and other protective enclosures, if necessary, by the contractor.
1. For a product and/or process to qualify for use on this project, it must be a commercially available product and/or process. A reference of at least 2,000 feet of successful use under similar conditions shall be submitted to the City prior to the bid date to ensure the commercial viability of the product and/or process.

2. No new product and/or process will be allowed for use on this project until approved by the City. All new products and/or processes shall be submitted to the City at least three years prior to the use on the project. The use of a new product and/or process will be allowed if the City has determined that the new product and/or process is superior to existing products and/or processes.

3. Material testing and/or performance trials shall be conducted to determine the performance of the new product and/or process. Performance trials shall be conducted in accordance with the following criteria:
   A. The material testing shall be conducted to ensure compliance with applicable ASTM standards.
   B. The material testing shall be conducted to ensure compliance with applicable DOT standards.
   C. The material testing shall be conducted to ensure compliance with applicable AASHTO standards.

4. The in-place product shall provide a full five-year pipe capacity equal to 1100% of the estimated pipe's capacity. The ground from the top of the pipe shall be covered with a minimum of 12 inches of cover material. The cover material shall be installed in accordance with the approved installation specifications.

5. The Contractor shall submit engineering design guidelines and quality control procedures for inspection, testing, and certification of the product. These guidelines and procedures shall be submitted to the City and shall be in compliance with all applicable regulations.

6. The Contractor shall submit a certification to the City confirming that the product used is similar to the products used on the project. The certification shall be in compliance with all applicable regulations.

7. The Contractor shall meet all applicable requirements of the City, including, but not limited to, obtaining required permits and approvals.

8. The material used in the construction of the project shall be tested in accordance with the approved testing procedures.

9. The Contractor shall provide the City with a site plan showing the location of all new products and/or processes used on the project. The site plan shall be in compliance with all applicable regulations.

10. The Contractor shall provide a detailed installation procedure for the City's Review Team.

11. The Contractor shall provide a detailed procedure for the City's Review Team.

12. The Contractor shall provide a detailed procedure for the City's Review Team.

CLARIFICATION SPECIFICATIONS

1. All material used in the construction of the new sewers shall be approved by the City. The material shall be submitted to the City for approval at least three years prior to the use on the project.

2. All material used in the construction of the new sewers shall be submitted to the City for approval at least three years prior to the use on the project.

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18. All material used in the construction of the new sewers shall be submitted to the City for approval at least three years prior to the use on the project.
NOTE: Contractor shall intercept flows in existing 12" sewer & bypass using 2 flow through plugs. Contractor shall coordinate the work in this area closely with the Kahua Hilton Hotel and keep odors & inconveniences to a min. The Hale Terrace Restaurant is currently an active business.

STA 14+95.7 (1) APPROX. LOCATION OF EXIST SWHL #6
TOP GV: 4.38 ft (1)
INC: (-3 ft) (1) EXIST 20" x (-1 ft) (1) EXIST 24"
CLEAN AND SEAL EXIST SWHL AND REPLACE ALL RINGS.

CUT EDGE

EXIST. SEWER EASEMENT IN NAME OF CITY AND COUNTY OF HONOLULU

INVERSION

CLEAN EXIST 24"-INCH RPW SEWER LINE AND RECONSTRUCT INCLIFF.

EXIST. PROPERTY LINE

DIVISION OF WASTEWATER MANAGEMENT
DIVISION OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU

WAIKUPE RECONSTRUCTION TRUNK SEWER PLAN
STA 12+10 TO 18+30

JOB NO. W13-91
EXIST. SEWER EASEMENT IN FAVOR OF CITY AND COUNTY OF HONOLULU

EXIST. PROPERTY LINE

INVERSION ACCESS "E"

Boundaries 38 and 39
Existing DAH 8
Sta 22+79.83
Provide temp. elec. drops:
1 - 480V, 3 phase
1 - 110V
Top Cover = 4.79
Inv = 10.58 (exact 34")
Clean & seal exist. DAH
and replace all caps.
A. Temporary bypass line(s) from SH-1 (next to existing bridge) contractor to coordinate alignment in field with SH-1 PDR.

B. Contractor shall bury section of temporary bypass line(s) that crosses the existing sewer and restore pipe to its original condition after removal of the bypass line(s).

C. Fire control, see SH-1. Contractor shall coordinate and set alignment of temporary bypass line(s) in field with SH-1 PDR.

Notes:

CONTRACTOR SHALL BURY THE SECTION OF THE TEMPORARY BYPASS LINE(S) BENEATH THE EXISTING ONE. SEE ALSO NOTE EA, PERTAINING TO CONSTRUCTION WITHIN STATE RIGHT OF WAY.

WAULUA RECONSTRUCTED TRUNK SEWER PLAN
STA 61+10 TO 63+77.50

DIVISION OF WASTEWATER MANAGEMENT
CITY AND COUNTY OF HONOLULU

WAULUA BEACH PARK

EXITS

WAIKIKI (COURT-BUILDING)

INVERSION AND BET TRUNK (LATER TO BE EXCLUDING THE EXISTING PARKING LOT)

INVERSION ACCESS "A"

Existing #1 and #2

Existing S44 E30

P.G. Brown & Sons, Inc.
200300 3 PHASE
1-120V
10" DRAIN

NOTE C

WAULUA BEACH PARK

INVERSION AND BET TRUNK (LATER TO BE EXCLUDING THE EXISTING PARKING LOT)

CONSTRUCTION STONE & AND FERK AREA

1991-92

WAULUA BEACH PARK

SO05 KALANIANAOLE HWY

EXIST. PARKING

INVERSION AND BET TRUNK (LATER TO BE EXCLUDING THE EXISTING PARKING LOT)
GENERAL NOTES FOR TRAFFIC CONTROL PLAN:

1. The permits shall meet general adjustment as to intersections, intersections, bridges, structures, etc., to suit field conditions.
2. General or special signs shall be extended to a point where they are secure to approaching traffic.
3. Traffic control devices shall be installed such that the sign or signal is visible to approaching traffic. The signs shall be placed promptly towards the work area.
4. Resilient and dynamic signs within the construction zone that are in contact with the traffic control plans shall be removed or covered. All signs shall be removed upon completion of the project.
5. Pile drivers and/or police officers shall be in sight of each other or in direct communication at all times.
6. Signs located by the giving notice, the permittee shall install.
7. A flashing arrow sign shall be placed on the in the traffic control plans.
8. A flashing arrow sign shall be placed on the in the traffic control plans.
9. All construction warning signs shall be prominently removed or covered whenever the message is not applicable or not in use.
10. The edges of all signs used for traffic control shall be appropriately located to avoid the display of unneeded information.
11. At the end of each day's work or as soon as the work is complete, the permits shall remove all traffic control devices no longer needed to permit free and safe passage of public vehicles. Temporary, persuade, shall be in the reverse order of installation.
12. Construction shall provide adequate pedestrian access across all work areas and any area affected by construction.
13. The contractor shall report all injuries (first aid, first aid, or hospital care) or the death of any individual resulting from any traffic incident within the construction.

LEGEND:
- TRAFFIC CONTROL SIGN
- CONE OR DELINEATOR
- DIRECTION OF TRAFFIC
- FLASHING ARROW SIGNAL
APPENDIX D

Proposed Park Area to be used for the Project's
Office, storage of materials and equipment,
stockpiling of debris from the cleaning operations,
and
inversion site
APPENDIX E

Comments and Responses
during
Consultation Phase
APPENDIX E
COMMENS AND RESPONSES DURING CONSULTATION PHASE

The following agencies, organizations, and individuals provided comments on the environmental impact assessment during the consultation period.

A single asterisk (*) indicates those which submitted written comments not requiring substantive responses. The comment letters are reproduced in this appendix.

A double asterisk (**) indicates those which submitted written comments requiring substantive responses. The comment and response letters are also reproduced in this appendix.

• State of Hawaii, Dept. of Transportation
•• State of Hawaii, Dept. of Land and Natural Resources
• The Kahala Beach Apartments
• City & County of Honolulu, Board of Water Supply
• City & County of Honolulu, Dept. of Transportation Services
• City & County of Honolulu, Dept. of Parks and Recreation
• City & County of Honolulu, Dept. of Land Utilization
• U.S. Dept. of Defense, Dept. of the Army
• City & County of Honolulu, Dept. of Public Works
November 15, 1991

Mr. Stanley G. I. Yim
Stanley Yim & Associates, Inc.
2850 Pau Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Yim:

Subject: Wailupe Reconstructed Trunk Sewer
TMK: 3-05-22, 23 & 38
Your Letter of September 25, 1991

We approve the enclosed plans, subject to the following conditions:

1. Kalanianaoile Highway lane closure will only be permitted during the hours of 9:00 a.m. to 3:00 p.m., and should be coordinated with the ongoing widening project. (Contact Ron Horiuchi or Michael Prebula of Hawaiian Dredging and Construction at 377-1106.) All lanes must be open during the peak hours of 5:30 a.m. - 9:00 a.m. and 3:00 p.m. - 6:30 p.m. Revise the plans and all references to working hours in the Environmental Assessment accordingly;

2. Additional information should be provided for Phase 1a work (see annotated comments);

3. Traffic control should be revised;

RECEIVED
NOV 19 1991

STANLEY YIM & ASSOC, INC.
4. See other comments notated on the plans; and

5. Submit two sets of the revised plans for our final review.

We have no other comments on the Environmental Assessment.

After you have satisfactorily addressed the above comments to the permits engineer, you may submit your tracing for my signature. Upon obtaining the required signatures, please submit three copies of the approved plans for our files.

The contractor may then apply for the permit from our Oahu district engineer at 727 Kakoi Street (Telephone No. 831-6712).

Very truly yours,

T. HARANO
Chief
Highways Division

Enclosure
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET
HONOLULU, HAWAI'I 96813

December 30, 1991

Mr. Rex Johnson, Director
Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813

Attention: Mr. T. Harano, Chief
Highways Division

Dear Mr. Johnson:

Subject: Response to Draft Environmental Assessment
         Comments for the Wallupe Reconstructed Trunk Sewer

Thank you for participating in the Draft Environmental Assessment
(DEA) review process. This is to acknowledge receipt of your
November 15, 1991 letter commenting on the DEA for the Wallupe
Reconstructed Trunk Sewer.

The construction plans have been revised to incorporate the
review comments and are presently being routed through your staff
for appeal.

Your letter will be appended to the Final Environmental
Assessment. If there are any questions, please contact Mr. Joel
Lee at 523-4963.

Very truly yours,

C. Michael Street
Director and Chief Engineer
The Honorable Sam Callejo
Director and Chief Engineer
Department of Public Works
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Callejo:

Subject: Draft Environmental Impact Statement for Wailupe Reconstructed Trunk Sewer
Location: Wailupe, Oahu

Thank you for giving our Department the opportunity to comment on this matter. We have reviewed the materials you submitted and have the following comment.

Brief Description:

The City & County of Honolulu, Department of Public Works plans to repair and reconstruct an existing sewer line from the Kahala Wastewater Pump Station, along the coastline, ending at Wailupe Beach Park. The work will consist of line cleaning, line reconstruction, manhole reconstruction and reconnecting existing sewer mains and laterals. Although temporary work easements, about 30 feet square, will be necessary, there will be no realignment of the existing sewer trunk and no new permanent sewer easements are anticipated.
HISTORIC PRESERVATION DIVISION COMMENTS:

This project does not involve excavation of new sewer lines. Therefore, the Historic Preservation Division has determined that this project will have "no effect" on Historic sites.

However, there remains the possibility that historic sites, including human burials, will be unearthed in the course of routine construction activities. Should this be the case, work in the vicinity should stop and the State Historic Preservation be contacted at 587-0047.

DIVISION OF AQUATIC RESOURCES COMMENTS:

No significant impact to aquatic resource values is expected from the activities proposed. However, precautions should be taken to prevent debris, eroded soils, petroleum products and other potential contaminants from entering the aquatic environment.

OFFICE OF CONSERVATION AND ENVIRONMENTAL AFFAIRS COMMENTS:

Pursuant to Title 13, Chapter 2 of the Department's Administrative Rules, any new, greater or different use of state zoned Conservation District Land, either permanent or temporary in nature, requires a Conservation District Use Application (CDUA).

State Land Use should be advised to confirm the location of the Conservation District to ensure that any activities occurring on Conservation District land are covered by a Conservation District Use Application (CDUA).

Thank you for your cooperation in this matter. Please feel free to call me or Sam Lemno at our Office of Conservation and Environmental Affairs, at 587-0377, should you have any questions or are in need of assistance.

Very truly yours,

[Signature]

William W. Paty
December 30, 1991

Mr. William W. Paty, Chairperson
Department of Land and Natural Resources
P.O. Box 621
Honolulu, Hawaii 96809

Attention: Mr. Sam Lemmo

Dear Mr. Paty:

Subject: Response to Draft Environmental Assessment
Comments for the Wai'uku Reconstructed Trunk Sewer

Thank you for participating in the Draft Environmental Assessment (DEA) review process. This is to acknowledge receipt of your November 7, 1991 letter commenting on the DEA for the Wai'uku Reconstructed Trunk Sewer.

The following responds to the contents of that letter:

1. Historic Preservation Division Comments: Project will have "no effect" because no excavation is involved. However, should there be a possibility that historic sites, including human burials be unearthed in the course of routine construction activities, the work in the vicinity will be stopped and the State Historic Preservation (587-0047) will be contacted. The Contractor for the project will be informed of this requirement with a copy of this letter to him at the preconstruction conference.

2. Division of Aquatic Resources Comments: No significant impact to aquatic resource values is expected from the activities proposed. However, the Contractor will be reminded again to take the necessary precautions to prevent debris, eroded soils, petroleum products and other potential contaminants from entering the aquatic environment.
3. Office of Conservation and Environmental Affairs
   Comments: While the letter mentions the need to obtain a CDUA permit prior to performing work, a followup meeting with DLNR staff (Sam Lemno and Ed Henry) has changed this need. Since the project is not a new project, nor will it change the existing use of the area, and also because the project is a repair type of job, a CDUA permit is not needed. The Contractor presently does not plan to store materials on beach areas. The bypass pumps and standby bypass pumps, however, will be located along the alignment of the existing sewer line during the project. This equipment, however, will be within the existing sewer easement.

Your letter will be appended to the Final Environmental Assessment. If there are any questions, please contact Mr. Joel Lee at 523-4963.

Very truly yours,

C. Michael Street

SAM CALLEJO
Director and Chief Engineer
October 23, 1991

Stanley G.H. Yim, PE
Stanley Yim & Associates, Inc.
2850 Paa Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Yim:

Thank you for your letter dated October 17, 1991. I have reviewed the Draft Environmental Assessment you left with me and discussed it with some of the members of our Board of Directors.

Our primary concern is that we be connected to sewer service during the cleaning and reconstruction of that portion of the sewer trunk line serving the Kahala Beach. Section IV Project Impacts, paragraph A.6. of the DEA indicates that the Country Club, the Apartments, and the Hotel will be bypassed to minimize inconvenience to our operations. The period when the work is planned for the Kahala Beach area, July and August 1992, is one of the busiest periods for this condominium. It would be very difficult to convince residents who spend those months here to reduce water use sufficiently to comply with the restrictions you are placing on individual family residences.

We also hope the contractor will be able to use electric motors to help limit noise. One of the access points (MH3) for cleaning and inversion is located adjacent to one of our four buildings. Continuous noise around the clock for the period you indicate will certainly be hard for residents to endure.

Again, thank you for discussing this project with me and for your assistance with insuring service during this project.

Very truly yours,

Salby Jacobs
General Manager

SJ:1k

cc: Mr. Joel Lee
December 30, 1991

Mr. Selby Jacobs, General Manager
The Kahala Beach Apartments
4999 Kahala Avenue
Honolulu, Hawaii 96816

Dear Mr. Jacobs:

Subject: Response to Draft Environmental Assessment
Comments for the Wailupe Reconstructed Trunk Sewer

Thank you for participating in the Draft Environmental Assessment (DEA) review process. This is to acknowledge receipt of your October 23, 1991 letter commenting on the DEA for the Wailupe Reconstructed Trunk Sewer.

The project will attempt inasmuch as possible to accommodate the residents of the Kahala Beach Apartments. The Contractor will be informed of the situation and be asked to help where possible to minimize noise and maintain active sewer service during the work. As for the tentative project schedule, July and August remain the scheduled periods when the work in your area will be active. Due to the nature of the work, the schedule, unfortunately, cannot be interrupted or "split" to accommodate these two busy months once it commences in February.

Your letter will be appended to the Final Environmental Assessment. If there are any questions, please contact Mr. Joel Lee at 523-4963.

Very truly yours,

C. Michael Street
Director and Chief Engineer
October 22, 1991

MEMORANDUM

TO: MIKE STREET, ACTING DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

FROM: JOSEPH M. MAGALDI, JR., DIRECTOR

SUBJECT: WAILUPE RECONSTRUCTED TRUNK SEWER
ENVIRONMENTAL ASSESSMENT
TMK: 3-5-22, 23 AND 58

This is in response to your memorandum dated October 7, 1991 requesting our comments on the subject environmental assessment.

Based on our review, we have no objections to the proposed project at this time. However, construction plans for all work within the city's right-of-way should be submitted to our department for review. A traffic control plan showing temporary detours for pedestrians and vehicles should be included in these plans.

Should you have any questions, please contact Lance Watanabe of my staff at local 4199.

JOSEPH M. MAGALDI, JR.
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF HONOLULU
650 SOUTH KING STREET
HONOLULU, HAWAII 96813

FRANK F. PASI
MAYOR

SAM CALLEJO
DIRECTOR AND CHIEF ENGINEER
G. MICHAEL STREET
DEPUTY DIRECTOR

December 30, 1991

WEI 91-171

MEMORANDUM

TO: MR. JOSEPH R. MAGALDI, JR., DIRECTOR
DEPARTMENT OF TRANSPORTATION SERVICES

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
FOR THE WAILUPE RECONSTRUCTED TRUNK SEWER

Thank you for participating in the Draft Environmental Assessment
(DEA) review process. This is to acknowledge receipt of your
October 22, 1991 letter commenting on the DEA for the Wailupe
Reconstructed Trunk Sewer.

All of the proposed work will be either in Kalanianaole Highway,
Wailupe Beach Park, along the coastline from Wailupe to Kahala,
over and across the Waialae Golf Course, Kahala Hilton Hotel, the
Kahala Beach Apartments and the privately owned portion of Kahala
Avenue. Insofar as we can determine, no City roads will be
affected. We have, however, provided a Special Provision section
in the Project's specifications regarding performing work in City
streets. The work in the private section of Kahala Avenue will
be referenced to this Special Provision section.

Your letter will be appended to the Final Environmental
Assessment. If there are any questions, please contact Mr. Joel
Lee at 523-4963.

SAM CALLEJO
Director and Chief Engineer
TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER.
DEPARTMENT OF PUBLIC WORKS

FROM: KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER
BOARD OF WATER SUPPLY

SUBJECT: YOUR MEMORANDUM OCTOBER 7, 1991 REGARDING THE DRAFT ENVIRONMENTAL ASSESSMENT FOR WAILUE RECONSTRUCTED TRUNK SEWER PROJECT. TMK: 3-5-22, 23, & 58, WAILUE, OAHU

Thank you for the opportunity to review and comment on the proposed reconstructed truck sewer project. We have no objections to the proposed project.

The construction plans should be submitted for our review and approval. The plans should show all affected water facilities, including water meters with meter numbers.

Board of Water Supply approved reduced pressure principle backflow prevention assemblies should be installed immediately after all water meter connections used in the construction of the proposed project.

If you have any questions, please contact Bert Kuoka at 527-5235.
MEMORANDUM

TO:   MR. KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER
      BOARD OF WATER SUPPLY

FROM:  SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
        DEPARTMENT OF PUBLIC WORKS

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
         FOR THE WAILUPE RECONSTRUCTED TRUNK SEWER

December 30, 1991

Thank you for participating in the Draft Environmental Assessment (DEA) review process. This is to acknowledge receipt of your October 22, 1991 letter commenting on the DEA for the Wailupe Reconstructed Trunk Sewer.

The project does not anticipate affecting any of the water systems. However, the construction plans will be submitted to the Board of Water Supply for review and, if necessary, approvals. There will be a need for water during the cleaning phase of the work. The Contractor is expected to be making the necessary arrangements with the Board of Water Supply to coordinate his schedule and needs for water for the project. There will be a temporary bypass line that will be crossing Khahela Avenue to get to the existing sewer pump station. The crossing, however, is tentatively planned to be at ground surface. The details are presently being resolved and discussions and research have already commenced with your staff.

Your letter will be appended to the Final Environmental Assessment. If there are any questions, please contact Mr. Joel Lee at 523-4963.

SAM CALLEJO
Director and Chief Engineer
TO:  SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER  
      DEPARTMENT OF PUBLIC WORKS  

FROM:  WALTER M. OZAWA, DIRECTOR  

SUBJECT:  DRAFT ENVIRONMENTAL ASSESSMENT FOR WAILUPE  
           RECONSTRUCTED TRUNK SEWER  
           TAX MAP KEY 3-05-22, 23 & 58  

This project is expected to close the western half of Wailupe Beach Park during the period of February 1992 through September 1992. The site is the only suitable open space location for a construction storage area as well as for an inversion site.  

The Department of Parks Recreation will allow establishment of this construction yard as long as a Park Entry Permit with plan is processed by the contractor prior to initiation of work.  

If there are any questions, you may contact Mr. Darwin Hamamoto at extension 6317.  

For WALTER M. OZAWA; Director  

WMO: ei
MEMORANDUM

TO: MR. WALTER OZAWA, DIRECTOR
DEPARTMENT OF PARKS AND RECREATION

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
FOR THE WAILUPE RECONSTRUCTED TRUNK SEWER

December 30, 1991

Thank you for participating in the Draft Environmental Assessment (DEA) review process. This is to acknowledge receipt of your October 18, 1991 letter commenting on the DEA for the Wailupe Reconstructed Trunk Sewer.

The Contractor will be asked to obtain the Park Entry permit and furnish the necessary plan to the Department of Parks and Recreation prior to commencing with the work.

Your letter will be appended to the Final Environmental Assessment. If there are any questions, please contact Mr. Joel Lee at 523-4963.

SAM CALLEJO
Director and Chief Engineer
MEMORANDUM

TO: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
   DEPARTMENT OF PUBLIC WORKS

FROM: LORETTA K.C. CHEE, ACTING DIRECTOR

SUBJECT: SPECIAL MANAGEMENT AREA REVIEW

Tax Map Key : 3-5-22, 23 and 58
Type of Project: Wailupe Reconstructed Trunk Sewer

The proposed project on the referenced tax map key has been reviewed. We find that it is within the Special Management Area, but is not defined as "development" and is therefore, exempt (Exemption No. 4).

We understand that portions of the existing sewer line are within the 40-foot shoreline setback. The proposed line cleaning, line reconstruction, minor trenching, manhole reconstruction, the reconnection of existing sewer side mains and laterals are however, considered repairs and are exempt from obtaining a shoreline variance.

Should you have any questions, please contact the Environmental Affairs Branch at 523-4077.

LORETTA CHEE
Acting Director of Land Utilization

LU 10/91-8172(DJK)

cc: Stanley Yim and Associates
December 30, 1991

MEMORANDUM

TO: MR. DONALD A. CLEGG, DIRECTOR
DEPARTMENT OF LAND UTILIZATION

FROM: SAM CALLEJO, DIRECTOR AND CHIEF ENGINEER
DEPARTMENT OF PUBLIC WORKS

SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT
FOR THE WAILUPE RECONSTRUCTED TRUNK SEWER

Thank you for participating in the Draft Environmental Assessment (DEA) review process. This is to acknowledge receipt of your October 15, 1991 letter commenting on the DEA for the Wailupe Reconstructed Trunk Sewer.

Your letter will be appended to the Final Environmental Assessment. If there are any questions, please contact Mr. Joel Lee at 523-4963.

SAM CALLEJO
Director and Chief Engineer
Mr. Stanley G.H. Yim, PE
Stanley Yim & Associates, Inc.
2850 Paa Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Yim:

In response to your September 23, 1991 letter regarding the Wailuku Reconstructed Trunk Sewer Project, Wailuku, Oahu, Hawaii, we have reviewed the draft environmental assessment which describes the proposed work in detail. We note that the work does not involve excavation, the construction of any structures, nor the placement of any fill, either temporary or permanent, below the mean high water line.

Based on the information provided, a Department of the Army permit is not required for the work. Your request will be filed with the earlier request for cleaning of the trunk sewer, File No. NP87-59. Please refer to this number in any future correspondence. We appreciate the opportunity to review the plans. If there are any questions on this determination, please contact Ruby Mizue at 438-9238.

Sincerely,

Stanley T. Arakaki
Stanley T. Arakaki
Chief, Operations Division

RECEIVED
OCT 07 1991
STANLEY YIM & ASSOC. INC.
Mr. Stanley T. Arakaki, Chief
Operations Division
Department of the Army
U.S. Army Engineer District Honolulu
Fort Shafter, Hawaii 96858-5440

Attention: Ms. Ruby Migue

Dear Mr. Arakaki:

Subject: Response to Draft Environmental Assessment
Comments for the Wai'alea Reconstructed Trunk Sewer

Thank you for participating in the Draft Environmental Assessment (DEA) review process. This is to acknowledge receipt of your October 4, 1991 letter commenting on the DEA for the Wai'alea Reconstructed Trunk Sewer.

Your letter will be appended to the Final Environmental Assessment. If there are any questions, please contact Mr. Joel Lee at 523-4963.

Very truly yours,

SAM CALLEJO
Director and Chief Engineer
August 5, 1991

Mr. Stanley Yim, PE
Stanley Yim and Associates, Inc.
2850 Pau Street, Suite 200
Honolulu, Hawaii 96819

Dear Mr. Yim:

Subject: Draft Environmental Assessment
Waiulu Reconstructed Trunk Sewer Project

We have reviewed and approve the revised Draft Environmental Assessment. Enclosed is the signed cover sheet for the assessment. Please submit the ten (10) copies for our use and distribute the necessary copies to the agencies for comments.

If there are any questions, please call Joel Lee at 523-4963.

Very truly yours,

GEORGE M. UYEMA
Chief

Enclosure

RECEIVED
AUG 6 1991
STANLEY YIM & ASSOC. INC.