



DEVELOPMENT SERVICES DEPARTMENT
ENVIRONMENTAL COORDINATOR
450 110th Ave NE., P.O. BOX 90012
BELLEVUE, WA 98009-9012

OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 12-123801-WG

Project Name/Address: Sewer Lake Line Replacement at Meydenbauer Bay

Planner: Kevin LeClair

Phone Number and Email: 425-452-2928 kleclair@bellevuewa.gov

Minimum Comment Period: November 5, 2012

Materials included in this Notice:

- Blue Bulletin
- Checklist
- Vicinity Map
- Plans
- Other:

City of Bellevue Submittal Requirements	27a
ENVIRONMENTAL CHECKLIST 4/18/02	
<p>If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call the Permit Center (425-452-6864) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Our TTY number is 425-452-4636.</p>	
<p style="text-align: center;">BACKGROUND INFORMATION</p> <p>Property Owner: <u>City of Bellevue – Parks Department</u></p> <p>Proponent: Contact Person: <u>City of Bellevue Utilities Dept. Jay Hummel, PE / Senior Engineer</u> (If different from the owner. All questions and correspondence will be directed to the individual listed.)</p> <p>Address: <u>P.O Box 90012 – Bellevue WA 98009-9012</u></p> <p>Phone: <u>425-452-4160 (Jay Hummel)</u></p>	<p>Reviewed under Bellevue Permit # 12-123801-WG By: Kevin LeClair 425-452-2928 kleclair@bellevuewa.gov</p>
<p>Proposal Title: <u>Sewer Lake Line Replacement at Meydenbauer Bay Project</u></p> <p>Proposal Location: <u>99th Ave NE – Bellevue Meydenbauer Bay Park and Marina (See Exhibit A)</u> (Street address and nearest cross street or intersection) Provide a legal description if available.(See Exhibit B/Sheet 2A) Please attach an 8 ½" x 11" vicinity map that accurately locates the proposal site.</p>	

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Give an accurate, brief description of the proposal's scope and nature:

1. **General description:** The Sewer Lake Line Replacement at Meydenbauer Bay Project includes construction of a gravity sewer Line to replace an aging and failing sewer line in Lake Washington. The proposed sewer line would be located within the existing Meydenbauer Beach Park and Bellevue Marina area. The proposed sewer line is proposed to be 1,250 lineal feet in length. The primary construction activity will be trenching in an upland area from the marina parking lot near the Grange pump station, northwest to the beach area of the park, and then making an in-water connection adjacent to the western edge of the existing park dock. The proposed sewer line alignment would temporarily disturb 550 square feet of class IV wetland and 3,500 square feet of buffer. Approximately 0.4 acres (17,400 sf) of lawn and shrubs will be cleared for the trenching portion of the project. 750 sf of park pathway will be reconstructed and an addition of 200 sf of pathway will be added along the eastern portion of the park sidewalk for future maintenance vehicle access. The trenching activity will include approximately 2,000 CY of excavation and 2,000 CY of fill for the sewer line replacement, a new pump station and valve vault. There will be approximately 200 +/- feet of in-water construction along the Lake Washington Shoreline, within the City jurisdiction (See Exhibit C/Sheet 3B).

Along the proposed upland alignment of the sewer line, approximately 550 square feet of low function class 4 wetland and 3,500 square feet of wetland buffer will be temporarily disturbed during construction. Soil removed from the wetland and wetland buffer will be stockpiled on site and returned to the wetland and wetland buffer areas, consistent with the need for specific engineered bedding material to be placed under and around the new sewer line.

The City of Bellevue has adopted a Master Plan for the Meydenbauer Bay Park and Marina Dec. 2010 (Resolution 8182) which the proposed sewer line replacement project is not tied to nor will it preclude or change any of the elements of that land use plan. All proposed elements of that master plan, which is a major redevelopment of the park will address final topography, final landscaping, urban design, and habitat enhancement by a proposed day lighting of the unnamed culverted creek at the northwest end of the park.

2. **Acreage of site:** Meydenbauer Beach Park is a 2.5-acre waterfront park with a swimming and water recreation area along the shoreline.

3. **Number of dwelling units/buildings to be demolished:** N/A

4. **Number of dwelling units/buildings to be constructed:** N/A

5. **Square footage of buildings to be demolished:** N/A

6. **Square footage of buildings to be constructed:** N/A

7. **Quantity of earth movement (in cubic yards):** 2,000 cy excavation/2,000 cy fill

8. **Proposed land use:** No Change in land use, sewer line replacement.

9. **Design features, including building height, number of stories and proposed exterior materials:** N/A – All facilities underground, except for manhole and pump station covers integrated into landscape.

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In-water work windows will be specified by Washington Fish and Wildlife Hydraulic Project Approval.

10. Other

Estimated date of completion of the proposal or timing of phasing:

Proposed start date 2013 and completion 2014. The contractor will mobilize to the site and setup the construction staging area (proposed: Marina parking area) and temporary erosion and sedimentation control facilities along the project site. The upland gravity sewer pipe, force main pipe, manholes, service connections, and sewage pump station will be installed before any in-water work is completed. The connection to the existing lake line within Meydenbauer Bay will be made during the approved in-water work window. The final stages of construction will include surface restoration, hydroseeding and other necessary restoration activities.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

There is an ongoing sewer system audit, in the form of a report, which is being conducted currently to identify long-term replacement and new construction area for the overall system. Extents of repairs needed are unknown presently in the overall sewer system upland and in-water. Upon completion of that report, the City of Bellevue Utilities Department will make a determination of the priority of repairs, replacement or new construction that will be required.

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

1. Biological Evaluation – City of Bellevue 2006 Exposed Sanitary Sewer Lines (Aug. 2006)
2. Geotechnical Engineering Report– Meydenbauer Bay Sewer Lake Line (March 11, 2010)

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. List dates applied for and file numbers, if known.

The Parks Department is proposing to demolish two single-family residences along the proposed sewer line alignment. The demolitions are required due to requirements of the State funding for the acquisition of the property for public park purposes. The demolitions will occur prior to the beginning of the sewer line replacement project.

List any government approvals or permits that will be needed for your proposal, if known. If permits have been applied for, list application date and file numbers, if known.

1. City of Bellevue SEPA Checklist and Determination
2. City of Bellevue Shoreline Permit
3. City of Bellevue Clearing and Grading Permit
4. City of Bellevue Land Use Application
5. US Army Corp – Section 10 Rivers/Harbors Act (JARPA/NEPA/Section 106 Concurrence)
6. US Fish and Wildlife – Section 7 Endangered Species Act Consultation
7. National Marine Fisheries Services – Section 7 Endangered Species Act Consultation
8. Washington State Hydraulic Project Approval (JARPA)

Bellevue Parks Department is also removing transient moorage piers in the marina and removing 5 residential docks in the project area under Shoreline Exemption permit # 12-117650-WE.

Please provide one or more of the following exhibits, if applicable to your proposal. (Please check appropriate box(es) for exhibits submitted with your proposal):

Land Use Reclassification (rezone) Map of existing and proposed zoning

Preliminary Plat or Planned Unit Development
Preliminary plat map

Plan of existing and proposed grading
Development plans

Shoreline Management Permit
Site plan

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A. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site: Flat Rolling Hilly Steep slopes Mountains
Other

b. What is the steepest slope on the site (approximate percent slope)?

The steepest slope is upland from the project near the past-single family housing area (approx. 2 to 5% slope). The project site is less than 2% slope on average. (Exhibit D)

c. What general types of soil are found on the site (for example, clay, sand, gravel, peat, and muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

Vashon sub glacial till (Qvt) and Vashon Advanced Outwash (Qva)

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

There are no indications of unstable soils in the project impact area.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Overall, there will be approximately 0.4 acres (17,400 sf) of lawn and shrubs along with two substantial trees that will be cleared for the trenching portion of the project. There will be a 750 sf of park pathway that will be reconstructed and 200 sf of pathway added along the eastern portion of the park sidewalk for future maintenance access. The trenching activity will include approximately 2,000 CY of excavation and 2,000 CY of fill for sewer line replacement, pump station, and valve vault construction underground. There will be approximately 200 +/- feet of construction in-water along Lake Washington Shoreline, within the City jurisdiction. (Exhibit C/Sheet 3B) The trenching will cross one wetland (Class IV) which has low ecological function and value as established during the Meydenbauer Bay Land Use Master Plan in the Wetlands Study (EDAW 2008 – Exhibit E)

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

It is not anticipated there will be erosion with implementation of Best Management Practices (BMPs) in conjunction with City regulations and a temporary erosion and sedimentation control plan (TESC).

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Less than .002 percent of the site will be converted to impervious surface. Across the 2-1/2 acre site, only 200 square feet of additional impervious surface will be added.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Standard BMPs, TESC, and an approved clearing and grading plan will avoid and mitigate any limited impacts to the earth.

Erosion control BMPs are required by BCC 23.76 Clearing and Grading Code and Standards

2. AIR

a. What types of emissions to the air would result from the proposal (i.e. dust, automobile odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

There will be limited emissions from fugitive dust and construction vehicles during construction activity.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None known or anticipated.

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c. Proposed measures to reduce or control emissions or other impacts to the air, if any:

A vacuum street sweeper will be utilized to remove dust and debris from pavement as directed by the City. Standard TESC and BMPs will control fugitive dust emissions and construction vehicle will be using federally regulated exhaust system for vehicle emissions.

3. WATER

a. Surface

(1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into it.

Lake Washington is adjacent to the park and marina and there is an unnamed culverted stream along the northern edge of the park. There are three (3) class IV wetlands in the middle of the park property. The palustrine wetland associated with the shoreline of the project area was categorized as a category IV wetland by EDAW staff in 2008 using the Washington State Wetland Rating System for Western Washington. Category IV wetlands have the lowest level of ecological functions and value, however may have potential to be enhanced. The Meydenbauer Park wetland was reported as having little potential for (EDAW, 2008-Exhibit E):

- Treating stormwater and toxins;
- Producing organic matter, native plant diversity/richness, and vegetative structure, and
- Supporting/providing aquatic, amphibious, and wetland associated wildlife habitat,

(2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If Yes, please describe and attach available plans.

Yes, the project area is within the 200-foot shoreline buffer and a small segment of the sewer line will be placed in the Lake extending out less than 200 feet from the shoreline to connect to the existing sewer line. in the shallow swimming area adjacent to the park dock. (See Exhibit C/Sheet 3B)

The Project will cross one wetland (Class IV) has described in 3.Water a. Surface (1) and Exhibit D wetland report. The impact will be under a quarter acre for the wetlands and temporary in nature, as all three wetlands are to be removed in the Meydenbauer Bay Land Use Plan with on-site restoration or mitigation within the park. This is illustrated in Exhibit F-Central Portion Meydenbauer Bay Park Master Plan.

(3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

There is limited excavation and fill where the sewer line extends through the wetland and buffer area. The project includes trenching through 550 square feet of class IV wetlands and 3,500 square feet of class IV wetland buffer and approximately 500 square feet of trenching in the lake (200' times a 2.5' trench width. There will be de-watering between the end of the north dock and the shoreline to allow for placement of the sewer line in-water. It is not anticipated that there will be dredging required for this small in-water work activity.

(4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

There will be de-watering between the end of the north dock and the shoreline to allow for placement of the sewer line in-water. This activity will be limited in time and duration. The necessary dewatering operations for connecting to the existing sewer line in the lake will comply with applicable local permits, project-specific permits, and regulations.

A dewatering plan will be submitted as part of the CSWPPP, detailing the location of dewatering activities and equipment, as well as discharge point, in order to support the work to connect to the existing sewer line in the lake. The dewatering zone will be established through a temporary cellular cofferdam to avoid the use of vibratory or pile driving equipment that may impact fish species and potentially damage the existing asbestos cement sewer pipeline. The cellular cofferdam will be floated into place and the contractor will isolate the area

around the existing pipe to allow for the dewatering and access to the connection point. The cellular cofferdam will be water filled and the lower portion of the cell will be matched with the contours of Lake Washington. Rock ballast, sand bags and/or external braces may be utilized to decrease seepage and stabilize the structure. The specific cofferdam system will be determined by the contractor and approved by the City and will be designed with appropriate resistance to lateral forces and overturning.

To accommodate the sediment and gravel, most likely a mobile technology such as a dewater tank, weir tank, or sand media filter will be utilized on-site temporarily. All discharged clean water will be regulated under the water quality standards in the NPDES and applicable state or federal agencies. The dewatering process and details will be determined by the contractor and approved by the City.

Dewatering plan and turbidity monitoring is required per BCC 23.76

(5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No, the proposal does not lie within a 100-year floodplain. (Confirmed via the FEMA Map No. 53033C0652K; Panel 652-51700 12005 – Zone X – Outside of Flood Plain)

(6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

There are not proposed discharges to the surface waters of Lake Washington or wetlands.

b. Ground

(1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description.

No groundwater will be withdrawn and no water will be discharged to groundwater.

(2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

No waste material is anticipated to be discharged into the ground. The Project's objective is to prevent potential catastrophic failure of the sanitary sewer line in the lake and to allow greater access to the sewer line system for the City of Bellevue Utilities department maintenance team.

c. Water Runoff (Including storm water)

(1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

No proposed changes in runoff, present conditions are lawn with sheet flow runoff and parking lot with an existing system of catch basin/water quality elements. With implementation of a TESC and standard BMPs, there is no anticipated polluted runoff from the project action.

(2) Could waste materials enter ground or surface waters? If so, generally describe.

None are anticipated

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d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

With implementation of a TESC and standard BMPs there is no anticipated polluted runoff from the project action.

4. Plants

a. Check or circle types of vegetation found on the site:

deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

shrubs

grass

pasture

crop or grain

wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other

water plants: water lily, eelgrass, milfoil, other

other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Lawn area will be removed during trenching and replaced to pre-construction conditions. There are two potential significant trees or grouping of trees, just north of 99th Ave NE that will be impacted by the construction (See Exhibit C/Sheet 3B) and two trees will be added to the park as mitigation of their removal. Additionally, some ornamental gravel along the beach area will be removed, grid located and replaced. Gravel from the lake will be cataloged as to its grid locations, inventoried, stored temporarily and returned to the same gridded area on the lake bottom. Supplemental gravel, approved by WDFW on gravel size, will be added to in-water work area only as needed.

c. List threatened or endangered species known to be on or near the site.

No threatened or endangered plant species are known to exist in the proposed project area.

No known threatened or endangered species are on the upland site. In water, species are Chinook salmon, steelhead trout, and bullhead trout populations in Lake Washington.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Standard landscaping in lawn area lawn will be replaced, pursuant to City of Bellevue Parks Department requirements.

5. ANIMALS

a. Check or circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

Birds: hawk, heron, eagle, songbirds, other:

Bald eagles are known to be in the vicinity, although none are nesting or breeding in the park or uplands adjacent to the project area.

Mammals: deer, bear, elk, beaver, other:

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Fish: bass, salmon, trout, herring, shellfish, other: *Specific Species Chinook Salmon, Steelhead Trout and Bullhead Trout*

b. List any threatened or endangered species known to be on or near the site.

The only know threatened and endangered species are the fish listed above and addressed in the Biological Evaluation that is required for the US Army Corp permit.

c. Is the site part of a migration route? If so, explain.

None known presently Salmon migrate in Lake Washington.

d. Proposed measures to preserve or enhance wildlife, if any:

None proposed for upland area, due to absence of threatened or endangered species. For in-water work, construction associated with installing the proposed sewer line section will cause temporary and localized impacts to water quality (i.e., turbidity), with some de-water activities. With the work being limited to approved Washington Department of Fish & Wildlife Fish work windows, no long-term impacts are anticipated.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy need? Describe whether it will be used for heating, manufacturing, etc.

Electricity for the pump stations will be the primary source of energy for the completed project.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of the proposal? List other proposed measures to reduce or control energy impacts, if any:

Pump station will use modern efficient electric pump and controllers to reduce runtime.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

None. The project is designed and located to reduce the potential for spills into Lake Washington by removing the sanitary sewer line from the lake and replacing the aging and fragile existing pipe.

(1) Describe special emergency services that might be required.

Standard emergency response by Fire or Police services in the event of an accident. Emergency services are not anticipated to be required with the completed project and risk of sanitary sewer line failure corrected.

(2) Proposed measures to reduce or control environmental health hazards, if any.

Coordination and notification to adjacent property owners, parks department and Marina during construction activities. Standard construction BMPs will be implemented to prevent any sewer spills during connection

construction activities.

b. Noise

(1) What types of noise exist in the area which may affect your project (for example, traffic, equipment, operation, other)?

No known noise that will adversely affect project.

(2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example, traffic, construction, operation, other)? Indicate what hours noise would come from the site.

There will be short-term construction vehicle noise, during daylight hours.

Standard construction noise hours in BCC 9.18 of shall apply, unless special exception is granted based on criteria contained in BCC 9.18.

(3) Proposed measures to reduce or control noise impacts, if any:

Implementations of standard construction BMP's and confirm contractor vehicles have regulation muffler systems and limit construction to day-light hours.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

Park and Marina are the current use of the site. There is single family and multi-family housing the east and north of the project area.

b. Has the site been used for agriculture? If so, describe.

No

c. Describe any structures on the site.

There are buildings and parking lots associated with the Marina (southern portion) of the project action. The park side of the project action area is lawn, sidewalk, picnic tables, restroom facility, and dock on the northern portion.

d. Will any structures be demolished? If so, what?

No structure will be demolished under this project action.

e. What is the current zoning classification of the site?

(See Exhibit G/Sheet 3A)

R-5; R-3.5: Single Family Residential

R-30: Multi-Family Residential

O: Office

f. What is the current comprehensive plan designation of the site?

DNTN-OB: Old Bellevue District

SF-M, SF-H: Single Family (Medium to High Density)

MF-H: Multi-Family (High Density)

O: Office

g. If applicable, what is the current shoreline master program designation of the site?

The current shoreline master program designation is "Shoreline Overlay District" (20.25E). It is considered an urban environment for a shoreline with Lake Washington as the body of water.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

The portions of the project site at or below Ordinary High Water, OHW, and the area 25 feet landward of OHW designated as a critical area within the City of Bellevue code. There are three (3) class IV wetlands in the middle of the park property. The palustrine wetland associated with the shoreline of the project area was categorized as a category IV wetland by EDAW staff in 2008 using the Washington State Wetland Rating System for Western Washington. Category IV wetlands have the lowest level of ecological functions and value. (Exhibit E_EDAW 2008)

i. Approximately how many people would reside or work in the completed project?

There will be none.

j. Approximately how many people would the completed project displace?

The project will not displace any people, citizens or workers.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Construction activity around sensitive areas will be conducted pursuant to City of Bellevue Code and applicable conditions of WDFW and US Army Corp permit approvals.

i. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The project is consistent and with the applicable City Comprehensive Plan Elements and Land Use Code.

Comprehensive Plan - The applicable comprehensive plan elements are the Utilities and Shoreline Management:

- Goal # 1 (Utilities Element): To promote and encourage the development and maintenance of all utilities at the appropriate levels of service to accommodate the City of Bellevue's projected growth.
- Goal # 2 (Utilities): to promote and encourage the provisions of reliable utility service in a way that balances the public's concerns about safety and health impacts of utility infrastructures, consumers' interest in paying no more than a fair and reasonable price for the utility's product, Bellevue's natural environment and the impacts that utility infrastructures may have on it, and the community's desire that utility projects be aesthetically compatible with surrounding land uses.
- Goal #1 (Shoreline Mgmt. Element): To protect and enhance the natural and developed shoreline of the City.
- Goal #3 (Shoreline Mgmt. Element): To protect, preserve, and enhance the natural resources and amenities of the city's shorelines for use and enjoyment by present and future generations.

Land Use Code - the Land Use Code has a several sections that apply to the proposed project. These include:

Land Use Charts in LUC 20.10.440 – The replacement and operation of the sewer line is considered an element of the “local utility system,” and is considered “permitted in both the R-3.5 and R-30 land use zoning districts.

Shoreline Overlay District in LUC 20.25E – The replacement of the sewer lake line requires a Shoreline Substantial Development Permit that must demonstrate compliance with the performance standards for Clearing and Grading contained in LUC 20.25E.080.B & U.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None

c. Proposed measures to reduce or control housing impacts, if any:

None

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

Construction is underground - not applicable

b. What views in the immediate vicinity would be altered or obstructed?

None

c. Proposed measures to reduce or control aesthetic impacts, if any:

None proposed, aside from restoration of landscape to pre-construction status

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

There will be no light or glare produced by the proposal.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

None anticipated as maintenance would be conducted during daylight hours and any emergency service call will have light directed down into sewer pipeline system underground.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light or glare impacts, if any:

None.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

The project action area is located within the City of Bellevue Meydenbauer Bay Park and Marina.

b. Would the proposed project displace any existing recreational uses? If so, describe.

There will be short-term disruption and construction activity in the park during non-peak season.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Construction activity, within future active park areas, will be limited to non-peak season.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None identified in the project action area. An assessment was conducted and consultation with Washington State Department of Archeology and Historic Preservation (DAHP) is currently ongoing.

b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site.

None present or identified.

c. Proposed measures to reduce or control impacts, if any:

None proposed presently. However, if any inadvertent discovery of historic or archeological items during construction, activities will be stopped and cultural resource experts and State Historical Preservation Officer will be contacted for determination and action steps.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

Meydenbauer Way; Bellevue Place SE and 99th Ave NE (See Exhibit B/Sheet 2A)

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No, the nearest bus lines are routes 249 and 550 on Bellevue Way & Main Street more than a mile away.

c. How many parking spaces would be completed project have? How many would the project eliminate?

None proposed or needed. No parking spaces will be eliminated because of the project. The site will only need to be accessed periodically for maintenance.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

There will be a maintenance access on the existing sidewalk portion of the park. Some modifications to the sidewalk e.g. some widening and replacement with a thicker concrete slab will be necessary to allow access by maintenance vehicles.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

The southern portion of the project is within the City of Bellevue Marina parking lot and adjacent to the docks with boats.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Existing maintenance trips will not increase or decrease with the completed project. There may be short-term truck traffic in the marina area for removal of unsuitable excavated soils that cannot be reused as trench backfill on-site. The majority of the fill will be retained on-site and some excavated soil could be removed via barge. It is anticipated that there could be 10 to 15 trucks trips a day during the peak construction activity.

g. Proposed measures to reduce or control transportation impacts, if any:

None proposed presently

15. Public Services

a. Would the project result in an increased need for the public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

None anticipated

b. Proposed measures to reduce or control direct impacts on public services, if any.

None proposed

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, cable tv.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity, which might be needed.

The proposed pump station will need electrical power. The project design calls for electric power to be extended to the pump station in an underground conduit. The project will also include telephone and potentially fiber optic connections for the equipment monitoring telemetry. This will also be extended to the pump station location by underground conduit. There will be an above ground electrical junction box. The primary utilities proposed are a sewer line replacement with 10" PVC piping, pump station and vault.

The contractor will mobilize to the site and setup the construction staging area (proposed: Marina parking area) and temporary erosion and sedimentation control facilities along the project site. The upland gravity sewer pipe, force main pipe, manholes, service connections, and sewage pump station will be installed and put into service prior to any in-water work. The connection to the existing lake line within Meydenbauer Bay will be made during the approved in-water work window. The final stages of construction will include surface restoration, hydroseeding and Meydenbauer Bay restoration activities.

Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature.....

**Reviewed by Kevin LeClair
10/04/2012**

Date Submitted.....*August 17, 2012*

CITY OF BELLEVUE UTILITIES

SEWER LAKE LINE REPLACEMENT PROJECT (MEYDENBAUER BAY) C.I.P. S-58

MAYOR
CONRAD LEE

DEPUTY MAYOR
JENNIFER ROBERTSON

CITY MANAGER
STEVE SARKOZY

DIRECTOR OF UTILITIES
NAV OTAL

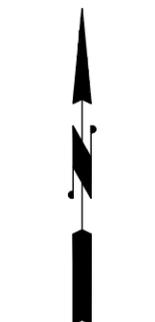
CITY COUNCIL
CLAUDIA BALDUCCI
JOHN CHELMINIAK
DON DAVIDSON
JOHN STOKES
KEVIN WALLACE

SHEET LIST (30% SUBMITTAL)

- COVER SHEET AND INDEX
- GENERAL NOTES, SYMBOLS, ABBREVIATIONS AND LEGEND
- OVERALL PROJECT SITE PLAN
- SEWER PLAN & PROFILE STA 10+00 TO STA 14+20
- SEWER PLAN & PROFILE STA 14+20 TO STA 19+00
- SEWER PLAN & PROFILE STA 19+00 TO STA 23+80
- LIFT STATION PLAN & DETAILS
- LIFT STATION, OVERFLOW & FORCE MAIN DISCHARGE MANHOLE DETAILS
- ELECTRICAL SYMBOLS & ABBREVIATIONS - E0
- ELECTRICAL ONE-LINE DIAGRAM - E1
- ELECTRICAL SITE PLAN - E2
- PUMP STATION PLAN & ELEVATION - E3

SHEET NUMBER

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12



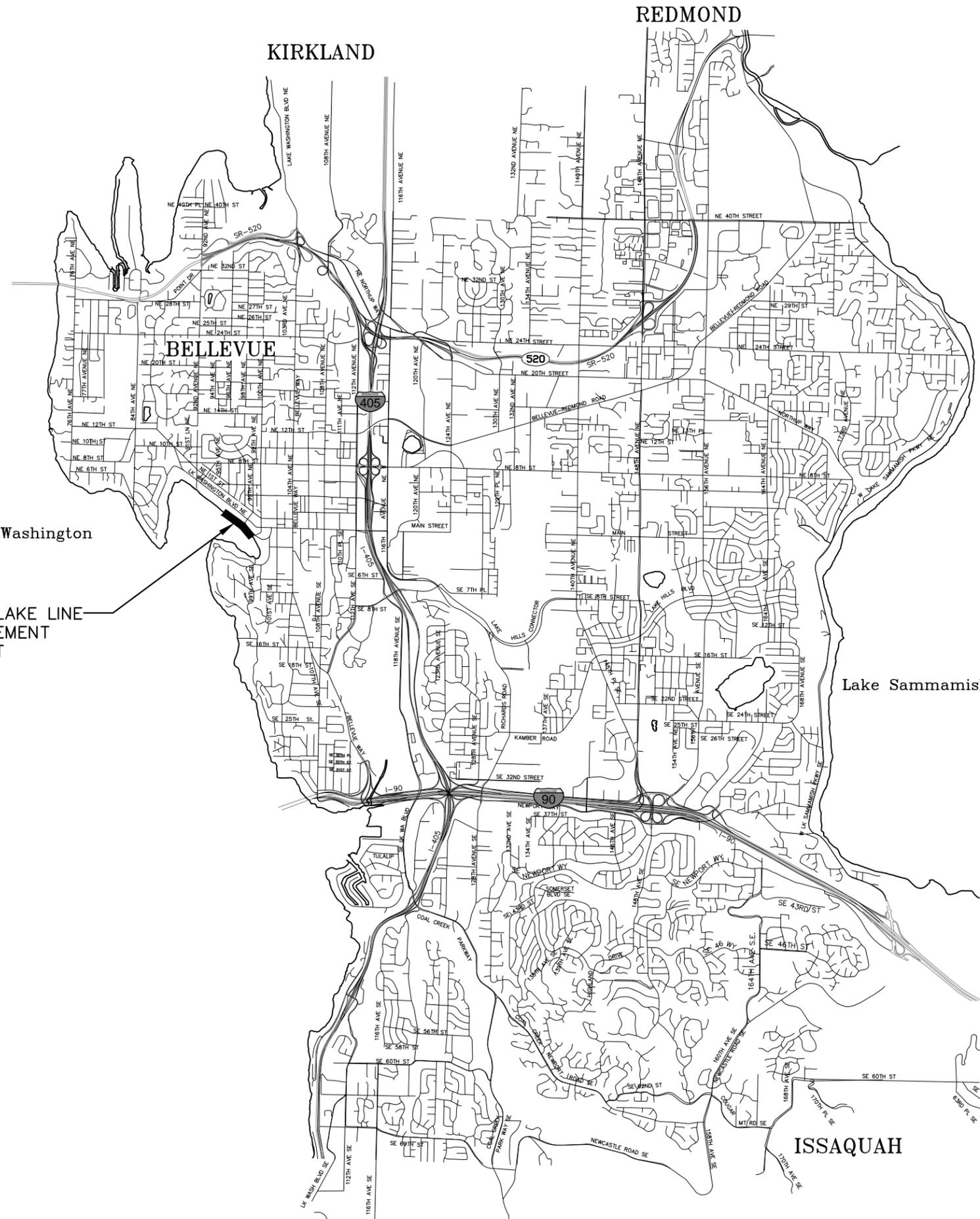
NOT TO SCALE

Lake Washington

SEWER LAKE LINE
REPLACEMENT
PROJECT

Lake Sammamish

ISSAQUAH



30% SUBMITTAL

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE 2012 CITY OF BELLEVUE UTILITY ENGINEERING STANDARDS AND THE DEVELOPER EXTENSION AGREEMENT.
- ALL NEW MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48" AND SHALL CONFORM TO THE STANDARD DETAILS.
- SANITARY SEWER PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35 (4"-15") OR ASTM F-679 (18"-27"). BEDDING AND BACKFILL SHALL BE AS SHOWN IN THE STANDARD DETAILS.
- ALL SIDE SEWERS SHALL BE 6" DIAMETER PIPE AT A MINIMUM 2% SLOPE, UNLESS OTHERWISE NOTED ON THE STANDARD DETAILS.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE ENGINEER IF A CONFLICT EXISTS.
- ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY OF BELLEVUE UTILITIES DEPARTMENT.
- SIDE SEWER SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE MAIN SEWER IS TESTED.
- TOPS OF MANHOLES WITHIN PUBLIC RIGHTS-OF-WAY SHALL NOT BE ADJUSTED TO FINAL GRADE UNTIL JUST PRIOR TO PAVING.
- ALL MANHOLES IN UNPAVED AREAS SHALL INCLUDE A CONCRETE SEAL AROUND ADJUSTING RINGS PER STANDARD DETAIL.
- CONTRACTOR SHALL ADJUST ALL MANHOLE RIMS TO FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.
- ALL SEWER MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED" BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE" AND CUT SHEETS PROVIDED TO THE ENGINEER, PRIOR TO STARTING CONSTRUCTION.
- SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT NO CONFLICTS EXIST BETWEEN SANITARY SEWER LINES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER. FLUSHING OF STREETS SHALL NOT BE PERMITTED WITHOUT PRIOR CITY APPROVAL.
- BEFORE COMMENCEMENT OF TRENCHING, THE CONTRACTOR SHALL PROVIDE FILTER FABRIC FOR ALL DOWNHILL STORM DRAIN INLETS AND CATCH BASINS, THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE. THE CONTRACTOR SHALL PERIODICALLY INSPECT THE CONDITION OF ALL FILTER FABRIC AND REPLACE AS NECESSARY. FOR ALL CONSTRUCTION DURING THE RAINY SEASON, DOWNHILL BASINS AND INLETS MUST BE PROTECTED WITH CATCH BASIN INSERTS. SIMPLY PLACING FILTER FABRIC UNDER THE GRATE IS NOT ACCEPTABLE.
- AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN THE CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
- WHERE NEW UTILITY LINE CROSSES BELOW AN EXISTING AC MAIN, THE AC PIPE SHALL BE REPLACED WITH D1 PIPE TO 3 FEET PAST EACH SIDE OF THE TRENCH AS SHOWN ON STANDARD DETAIL W-8. ALTERNATIVELY, WHERE DIRECTED BY THE ENGINEER, THE TRENCH SHALL BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF, AKA FLOWABLE FILL) FROM BOTTOM OF TRENCH TO BOTTOM OF THE AC MAIN.

- CALL 1-800-424-5555, OR 811, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATES.
- MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
- THE CONTRACTOR SHALL PROVIDE A VIDEOTAPE (DVD OR VHS FORMAT, STANDARD MODE) OF THE SEWER PIPE INTERIOR FOR THE CITY'S REVIEW. THE VIDEO SHALL PROVIDE A MINIMUM OF 14 LINES PER MILLIMETER RESOLUTION AND COVER THE ENTIRE LENGTH OF THE APPLICABLE PIPE. THE CAMERA SHALL BE MOVED THROUGH THE PIPE AT A UNIFORM RATE (≤30 FT/MIN), STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPE CONDITION. THE VIDEO SHALL BE TAKEN AFTER INSTALLATION AND CLEANING TO INSURE THAT NO DEFECTS EXIST. THE PROJECT WILL NOT BE ACCEPTED UNTIL ALL DEFECTS HAVE BEEN REPAIRED.
- WHEN WORK IS TO OCCUR IN EASEMENTS, THE CONTRACTOR SHALL NOTIFY THE EASEMENT GRANTOR AND BELLEVUE UTILITIES IN WRITING A MINIMUM OF 48 HOURS IN ADVANCE OF BEGINNING WORK (NOT INCLUDING WEEKENDS OR HOLIDAYS). FAILURE TO NOTIFY GRANTOR AND BELLEVUE UTILITIES WILL RESULT IN A STOP WORK ORDER BEING POSTED UNTIL THE MATTER IS RESOLVED TO THE SATISFACTION OF BELLEVUE UTILITIES. A WRITTEN RELEASE FROM THE EASEMENT GRANTOR SHALL BE FURNISHED TO THE UTILITIES INSPECTOR PRIOR TO PERMIT SIGN-OFF.
- THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC SEWER EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY. THE CONTRACTOR SHALL FURNISH A SIGNED RELEASE FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.

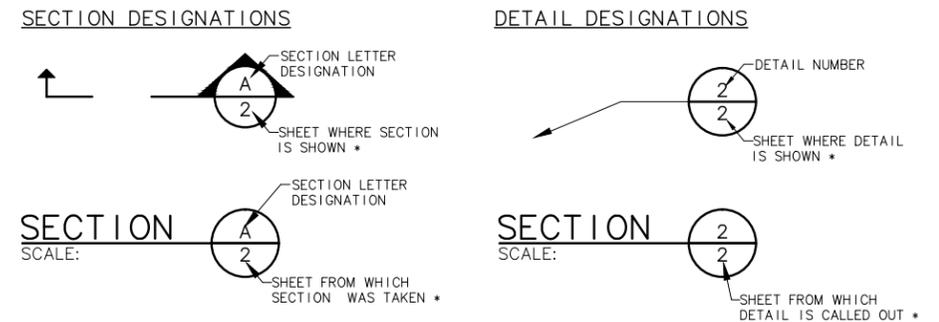
LEGEND

	EXISTING	PROPOSED
SANITARY SEWER	—SS—	—8"SS—
STORM DRAIN	—SD—	—36"SD—
ABANDON		- / - / - / - / - / -
WATERLINE	—W—	—1"W—
UNDERGROUND POWER	—UGP—	
FIBER OPTIC	—FO—	
GAS	—G—	
TELEPHONE	—T—	
CULVERT	> = = = = <	
RIGHT-OF-WAY/ PROPERTY LINE	— — — — —	
CENTER LINE	— — — — —	
STAGING AREA	— — — — —	
FENCE	x x x x	x x x x
EDGE OF ROAD	=====
CURB	=====	=====
SIDEWALK	=====	=====
DITCH	
MANHOLE	○	●
CATCH BASIN/FIELD INLET	⊞	⊞
OVERFLOW DRAIN	≡	≡
VALVE	⊗	⊗
FIRE HYDRANT ASSEMBLY	⊙	⊙
WATER METER	⊞	⊞
UTILITY POLE	○	○
GUY WIRE	└┘	└┘
MAIL BOX	⊞	
SIGN	└┘	
TREE DECIDUOUS	☼	☼
TREE CONIFEROUS	☼	☼
TREE TO BE REMOVED	☼	☼
LIGHT POST	☆	
MAJOR CONTOUR	—180—	—180—
MINOR CONTOUR	- - -181- - -	- - -181- - -
CAP/PLUG		1
RETAINING WALL	=====	=====

ABBREVIATIONS

ABAND	ABANDONED	MFR	MANUFACTURER
AC	ASPHALTIC CONCRETE	MH	MANHOLE
AWWA	AMERICAN WATER WORKS ASSOCIATION	MIN	MINIMUM
BLDG	BUILDING	N	NORTH
BTM	BOTTOM	NIC	NOT IN CONTRACT
		NTS	NOT TO SCALE
C	CENTERLINE	OC	ON CENTER
CB	CATCH BASIN	OD	OUTSIDE DIAMETER
CDF	CONTROLLED DENSITY FILL CLASS	PL	PLASTIC
CLR	CLEARANCE	PVC	POLYVINYL CHLORIDE
CMP	CORRUGATED METAL PIPE	RT	RIGHT
COORD	COORDINATE	R/W	RIGHT OF WAY
CONC	CONCRETE	S	SOUTH
CY	CUBIC YARD	SCHED	SCHEDULE
DET	DETAIL	SD	STORM DRAIN
D1	DUCTILE IRON	SERV	SERVICE
DIA	DIAMETER	SHT(S)	SHEET(S)
DR	DRIVEWAY	SL	SLOPE
DWG	DRAWING	SPECS	SPECIFICATIONS
E	EAST	SQ	SQUARE
EA	EACH	SS	SANITARY SEWER
EL	ELEVATION	SSCO	SANITARY SEWER CLEANOUT
EQ	EQUAL	SSMH	SANITARY SEWER MANHOLE
ESC	EROSION AND SEDIMENT CONTROL	STA	STATION
EX	EXISTING	STD	STANDARD
EXIST	EXISTING	STL	STEEL
		S/W	SIDEWALK
FM	FORCE MAIN	T, TEL	TELEPHONE
FT	FEET	TEMP	TEMPORARY
G	GAS	TYP	TYPICAL
GALV	GALVANIZED	VERT	VERTICAL(LY)
GEN	GENERAL	UGP	UNDERGROUND POWER LINE
IE	INVERT ELEVATION	W	WATER, WEST
INSTR	INSTALL	WSDOT	WASHINGTON DEPARTMENT OF TRANSPORTATION
INV	INVERT		
L	LENGTH		
LF	LINEAR FOOT		
LT	LEFT		

SECTION AND DETAIL DESIGNATIONS



* NOTE: IF PLAN AND SECTION FOR DETAIL CALL-OUT AND DETAIL ARE SHOWN ON THE SAME DRAWING, DRAWING NUMBER IS REPLACED WITH A DASH.



Know what's below. Call before you dig.

30% SUBMITTAL

NO	DATE	BY	APPR	REVISIONS

MSA Murray Smith & Associates, Inc.
Engineers/Planners
2707 Colby Avenue, Suite 1110 PHONE 425.252.9003
Everett, Washington 98201-3566 FAX 425.252.8853



Approved By

UTILITIES ENGINEERING MANAGER	DATE
PROJECT MANAGER	DATE

NPH	8/26/10
DESIGNED BY	DATE
HCM	5/3/12
DRAWN BY	DATE
TJP	8/26/10
CHECKED BY	DATE



City of Bellevue
UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT (MEYDENBAUER BAY)

GENERAL NOTES, SYMBOLS, ABBREVIATIONS AND LEGEND

SEC 31 TWP 25 RGE 5 SHT 2 OF

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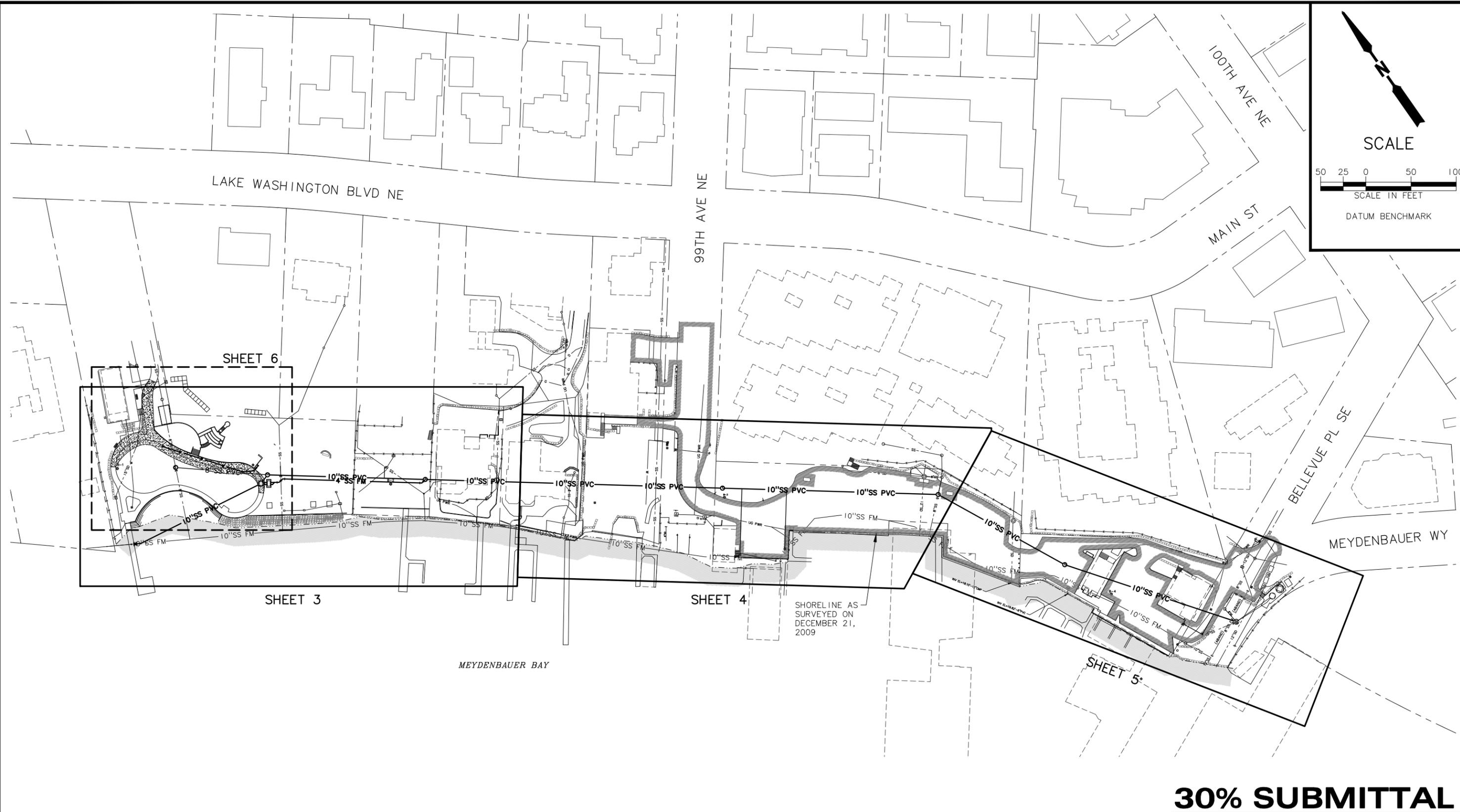
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SCALE

50 25 0 50 100

SCALE IN FEET

DATUM BENCHMARK



NOTES:

1.

PLAN
SCALE: 1"=50'

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DRAINAGE MAP	#	-----
WATER GRID	#	-----
SEWER GRID	#	-----

NO	DATE	BY	APPR	REVISIONS

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PROJECT MANAGER	DATE

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DESIGNED BY	DATE
HCM	5/3/12
DRAWN BY	DATE
CEB	3/27/12
CHECKED BY	DATE



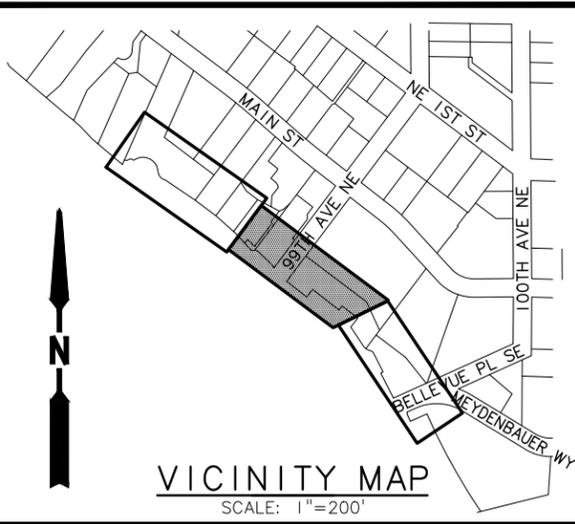
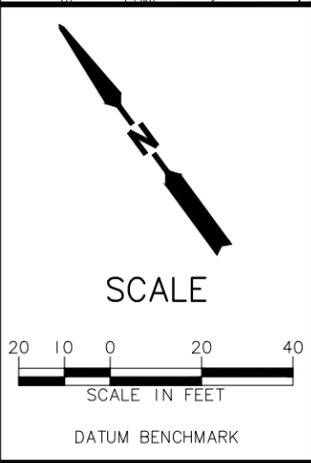
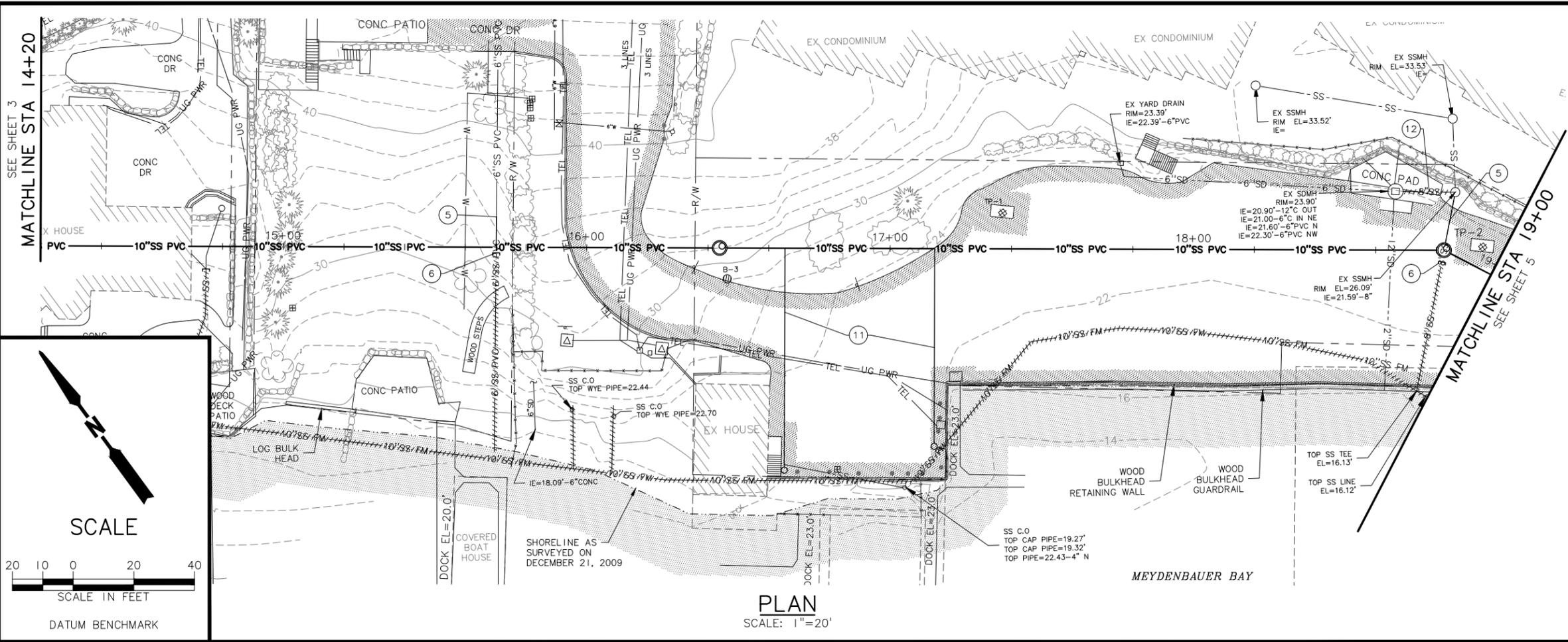
City of Bellevue
UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT (MEYDENBAUER BAY)

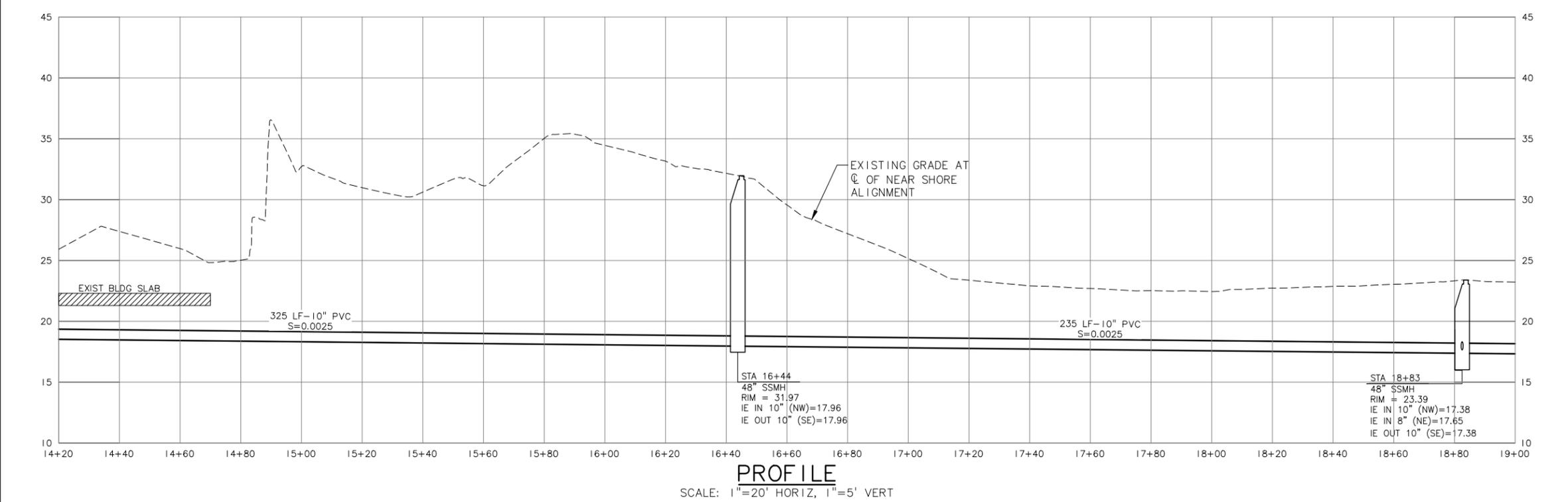
OVERALL PROJECT SITE PLAN

SEC 31 TWP 25 RGE 5 SHT 3 OF

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- KEYED NOTES:**
- ⑤ REMOVE & REPLACE SS LINE CONNECTIONS TO MEET SEWER PROFILE
 - ⑥ CAP ABANDONED SEWER LINE, SEE NOTE 1
 - ⑪ PRESSURE SEWER LINE FOR RESIDENTIAL PUMP CONNECTIONS
 - ⑫ ABANDON OVERFLOW IN PLACE, SEE NOTE 1



- SHEET NOTES:**
- 1. ABANDONED SEWER LINES TO BE FILLED WITH CDF AND CAPPED. SEE SPECIFICATIONS.

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DRAINAGE MAP	#	-----
WATER GRID	#	-----
SEWER GRID	#	-----

NO	DATE	BY	APPR	REVISIONS

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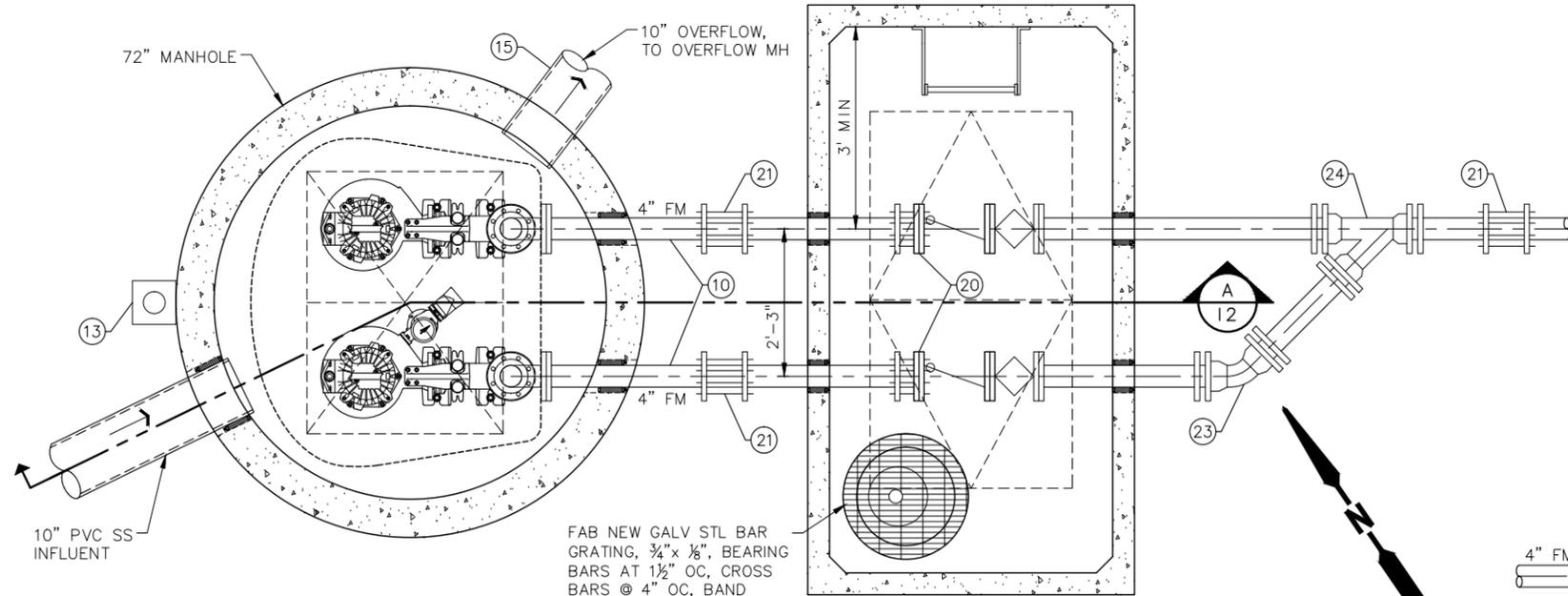
Approved By
 UTILITIES ENGINEERING MANAGER DATE
 PROJECT MANAGER DATE

SMR 3/27/12
 DESIGNED BY DATE
 HCM 5/3/12
 DRAWN BY DATE
 CEB 3/27/12
 CHECKED BY DATE

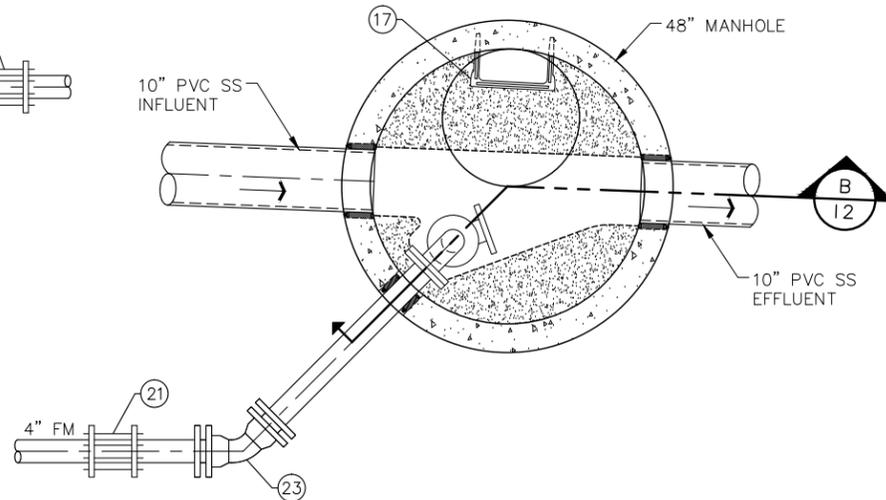


City of Bellevue
 UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT (MEYDENBAUER BAY)
SEWER PLAN & PROFILE
STA 14+20 TO STA 19+00
 SEC 31 TWP 25 RGE 5 SHT 5 OF

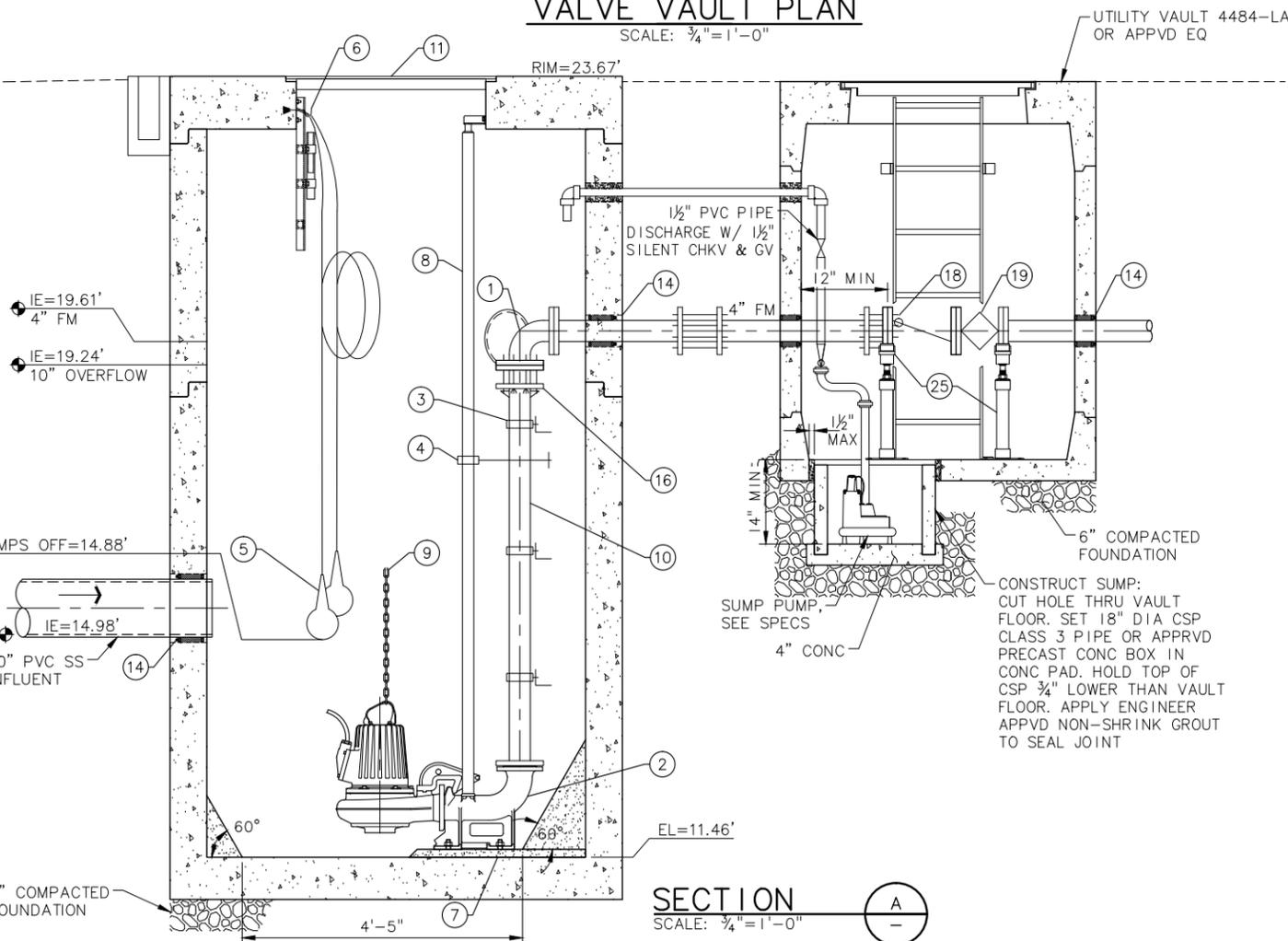


**LIFT STATION &
VALVE VAULT PLAN**
SCALE: 3/4"=1'-0"

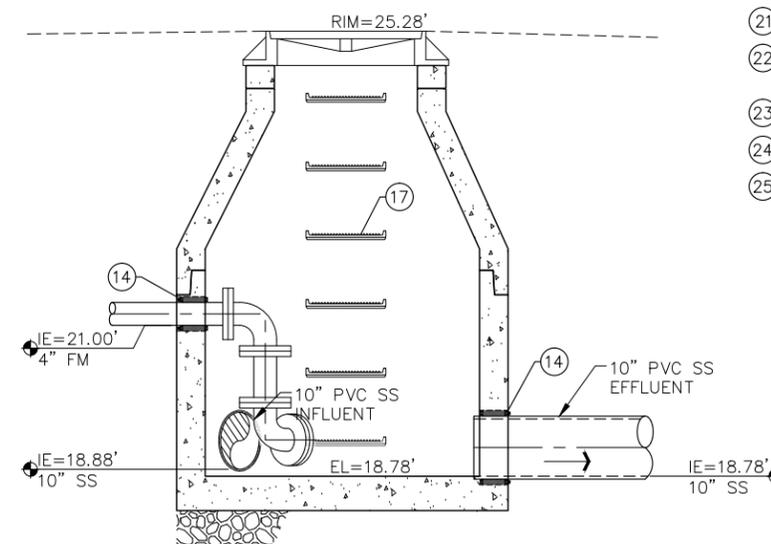


FORCE MAIN DISCHARGE MANHOLE PLAN
SCALE: 3/4"=1'-0"

- PIPING KEY NOTES:**
- 1 4"x4" 90° DI BEND, FLG (TYP OF 2)
 - 2 4" PUMP DISCHARGE ELBOW - CONNECT AS REQ'D BY PUMP MFR. ANCHOR TO BASE SLAB PER MFR'S RECOMMENDATIONS
 - 3 PIPE SUPPORT, SPACE EVENLY
 - 4 PIPE SUPPORT, FOLLOW MFR'S INSTALLATION INSTRUCTIONS
 - 5 FLOAT
 - 6 FLOAT HANGER ASSY
 - 7 NON-SHRINK GROUT FOR LEVELING PUMPS PER MFR RECOMMENDATIONS
 - 8 GUIDE RAILS - PROVIDE HORIZ/ VERT BRACKET SUPPORTS AS REQ'D BY PUMP MFR. SECURE TO INSIDE OF ACCESS HATCH AND WETWELL AS REQ'D BY PUMP MFR
 - 9 SST LIFTING CHAIN (1 PER PUMP). ANCHOR TO TOP SLAB AS REQ'D BY PUMP MFR. SECURE TO INSIDE OF ACCESS HATCH AND WETWELL AS REQ'D BY PUMP MFR
 - 10 4" DI SPL, PE (TYP OF 2)
 - 11 48"x36" ACCESS HATCH PALL PROTECTION GRATING SYSTEM. AL DIAMOND PLATED W/ RECESSED PADLOCK CLIP. HATCHES SHALL OPEN AWAY FROM EACH OTHER.
 - 12 4" DI SPL, FLGPE
 - 13 DAVIT RECEIVING SLEEVE W/ COVER FOR PORTABLE HOIST SYSTEM
 - 14 LINK-SEAL WALL PENETRATION
 - 15 10" DI SPL, PE
 - 16 4" MEGAFLANGE
 - 17 MANHOLE LADDER W/ EXTENSION
 - 18 4" CHKV (TYP OF 2)
 - 19 4" PLUG VALVE (TYP OF 2)
 - 20 4" FCA (TYP OF 2)
 - 21 4" CPLG
 - 22 4" DI SPL, FLG, LENGTH AS REQ'D (TYP OF __)
 - 23 4" 45° DI BEND, MJ
 - 24 4"x4" 45° WYE, MJ
 - 25 ADJUSTABLE PIPE SADDLE SUPPORT, (TYP OF 4)



SECTION A
SCALE: 3/4"=1'-0"



SECTION B
SCALE: 3/4"=1'-0"

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City of Bellevue
UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT
(MEYDENBAUER BAY)
LIFT STATION, OVERFLOW & FORCE
MAIN DISCHARGE MANHOLE DETAILS
SEC 31 TWP 25 RGE 5 SHT 8 OF

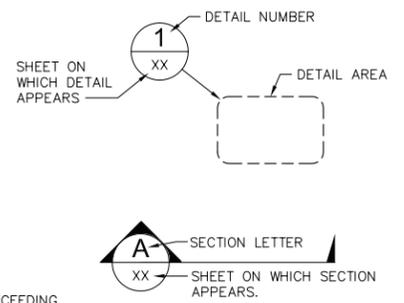
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SYMBOL		DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATIONS
SCHEMATIC	PLAN						
		GROUND ROD IN GROUND ROD BOX		FLUORESCENT LIGHTING FIXTURE, SURFACE. "F1" INDICATES TYPE PER FIXTURE SCHEDULE. "2" INDICATES CIRCUITING. "a" INDICATES SWITCHING.		CONDUIT CONCEALED	A,AMP AMPERE
		BATTERY.		FLUORESCENT LIGHTING FIXTURE, RECESSED. ● INDICATES FIXTURE ON EMERGENCY CIRCUIT.		CONDUIT EXPOSED.	AC AIR COMPRESSOR, ALTERNATING CURRENT
		TRANSFORMER, PLAN VIEW SHOWN TO SCALE		FLUORESCENT WRAPAROUND FIXTURE. SURFACE SURFACE OR PENDANT AS INDICATED IN FIXTURE SCHEDULE.		CONDUIT REMOVED	AF AMPERE FRAME
		CURRENT TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S.		FLUORESCENT LIGHTING FIXTURE FOR HAZARDOUS AREAS. CLASS. AND DIV. AS INDICATED IN FIXTURE SCHEDULE		EXISTING CONDUIT ROUTED UNDERGROUND.	AFF ABOVE FINISHED FLOOR
		MOTOR, NUMBER INDICATES HORSEPOWER		FLUORESCENT STRIP, SURFACE OR PENDANT AS INDICATED IN FIXTURE SCHEDULE.		MANUFACTURERS CORD/CABLE	AIC AMPERES INTERRUPTING CAPACITY
		GENERATOR WITH EXHAUST DUCTING		INCANDESCENT, COMPACT FLUORESCENT, OR H.I.D. LIGHTING FIXTURE, CEILING MOUNTED.		CONDUIT WITH FLEX CONNECTION	AIL AMBER INDICATING LIGHT
		MOTOR STARTER W/DISCONNECT		INCANDESCENT, COMPACT FLUORESCENT, OR H.I.D. LIGHTING FIXTURE, WALL MOUNTED.		HEAT TAPE ON PIPING.	AL ALARM
		PACKAGED POWER AND CONTROL PANEL		INCANDESCENT, COMPACT FLUORESCENT, OR H.I.D. LIGHTING FIXTURE ON EMERGENCY CIRCUIT.		CONDUIT TURNED UP OR TOWARD.	ALT ALTERNATOR
		DISCONNECT SWITCH, NON FUSED (60A) INDICATES AMPERAGE RATING		EXIT LIGHT. ↓ INDICATES DIRECTION OF ARROW		CONDUIT TURNED DOWN OR AWAY.	AM AMMETER
		DISCONNECT SWITCH, FUSED 200=SWITCH RATING, 100=FUSE RATING		EMERGENCY WALL PACK.		CONDUIT CAPPED.	AO ANALOG OUTPUT POINT (PLC)
		UTILITY METERING		H.I.D. LIGHTING FIXTURE, POLE MOUNTED.		CONDUIT SEALS. CLASS 1. DIV.1 EXPLOSION PROOF A PROVIDE CONDUIT SEALS PER NEC	AT AMPERE TRIP
		INDICATING LIGHT. A = AMBER G = GREEN B = BLUE R = RED W = WHITE		INCANDESCENT, COMPACT FLUORESCENT, OR H.I.D. LIGHTING FIXTURE ON EMERGENCY CIRCUIT.		CONDUIT HOME RUN 0°C, 2#12 & 1#12 GND. TO PANEL L, CKT. 7 UNLESS SHOWN OTHERWISE.	ATS AUTOMATIC TRANSFER SWITCH
		LIGHTED PUSHBUTTON WITH LENS COLOR ABOVE		PHOTO ELECTRIC RELAY		CONDUIT RUN - SEE CONDUIT SCHEDULE.	BAT BATTERY
		SELECTOR SWITCH: HOR = HAND/OFF/REMOTE HOA = HAND/OFF/AUTO RO = RUN/OFF		TIME CLOCK. VERIFY TYPE FROM PLANS.		THERMAL MAGNETIC CIRCUIT BREAKER, RATING/NO. POLES MO - MAGNETIC ONLY	BC BATTERY CHARGER
		HAND STATION		LIGHTING CONTACTOR.		SURGE ARRESTOR	BH BLOCK HEATER
		LOCAL CONTROL PANEL		CONDUIT JUNCTION BOX		ATS - AUTOMATIC TRANSFER SWITCH MTS - MANUAL TRANSFER SWITCH	BIL BLUE INDICATING LIGHT
		PUSHBUTTON SWITCH. MOMENTARY ON.		MOTOR, NUMBER INDICATES H.P.		POWER CAPACITOR WITH KVAR RATING	BP BYPASS CONTRACTOR
		PRESSURE SWITCH. NORMALLY CLOSED.		SURFACE METAL RACEWAY WITH RECEPTACLE AT "X" O.C.		FULL VOLTAGE STARTER, NEMA SIZE 1 MS=MOTOR STARTER CONTACT BP=BYPASS CONTACTOR IC=ISOLATION CONTACTOR	BP BYPASS CONTACTOR
		FLOW SWITCH. NORMALLY CLOSED.		DUPLEX RECEPTACLE, 2 INDICATES CIRCUITING, GF1 INDICATES GROUND FAULT CIRCUIT INTERRUPTION		THERMAL OVERLOAD RELAY	IC=ISOLATION CONTACTOR
		LIMIT SWITCH, NORMALLY OPEN.		SINGLE RECEPTACLE		VARIABLE FREQUENCY DRIVE	MS MOTOR STARTER CONTACT
		LEVEL SWITCH, CLOSSES ON RISING LEVEL		SPECIAL PURPOSE RECEPTACLE, AS NOTED		REDUCED VOLTAGE AUTO-TRANSFORMER STARTER NEMA SIZE 1	MS=MOTOR STARTER CONTACT
		TS, TEMP. SWITCH, CLOSSES ON FALLING TEMP. T, THERMOSTAT		DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPLASH. DATA OUTLET		SOLID STATE STARTER, REDUCED VOLTAGE WITH ISOLATION & BYPASS CONTACTORS	BP=BYPASS CONTACTOR
		CONTROL RELAY		INTERCOM		FUSE WITH AMPERE RATING	IC=ISOLATION CONTACTOR
		POTENTIOMETER		SPLIT TELEPHONE DATA OUTLET		AM - AMMETER	IC=ISOLATION CONTACTOR
		LEVEL TRANSMITTER		TELEPHONE OUTLET		VM - VOLT METER	MS=MOTOR STARTER CONTACT
		PRESSURE TRANSMITTER		PANELBOARD - CONCEALED		AVM - AMMETER AND VOLT METER	MS=MOTOR STARTER CONTACT
		SPEED INDICATOR		PANELBOARD SURFACE MOUNTED		AS - AMMETER SWITCH	MS=MOTOR STARTER CONTACT
		FLOW TRANSMITTER		HANDHOLE WITH DESIGNATION P - POWER C - CONTROL S - SIGNAL MH - MAN HOLE V - VAULT		PM - POWER MONITOR	MS=MOTOR STARTER CONTACT
		SMOKE DETECTOR		ELECTRIC HEATER WALL OR BASEBOARD		VS - VOLTMETER SWITCH	MS=MOTOR STARTER CONTACT
		HEAT DETECTOR		PHASE FAIL RELAY & FUSE		CONDUCTORS NOT CONNECTED.	MS=MOTOR STARTER CONTACT
		SOLENOID VALVE.		RUN TIME METER		CONDUCTORS CONNECTED.	MS=MOTOR STARTER CONTACT
		ELECTRIC HEATER		START COUNT METER		PULL OUT SWITCH/PLUG-RECEPTACLE CONNECTION	MS=MOTOR STARTER CONTACT
		THERMOSTAT		BLOWN FUSE INDICATOR		TERMINAL IN MCC	MS=MOTOR STARTER CONTACT
		TIME DELAY RELAY TDOE = TIME DELAY ON ENERGIZATION TDOD = TIME DELAY ON DE-ENERGIZATION		KIRK KEY INTERLOCK		TERMINAL IN MCP	MS=MOTOR STARTER CONTACT
		DOOR SECURITY SWITCH				TERMINAL IN REMOTE DEVICE OR PANEL	MS=MOTOR STARTER CONTACT
		VIBRATION SENSOR					MS=MOTOR STARTER CONTACT
		LEAK DETECTION FOR SUBMERSIBLE PUMPS					MS=MOTOR STARTER CONTACT
		RESISTANCE TEMPERATURE DEVICE					MS=MOTOR STARTER CONTACT
		OVER TEMPERATURE CUTOUT					MS=MOTOR STARTER CONTACT
		THERMOSTAT					MS=MOTOR STARTER CONTACT
		HORN					MS=MOTOR STARTER CONTACT
		UNIT HEATER - SHOWING BLOWER DIRECTION					MS=MOTOR STARTER CONTACT

NOTE:
SYMBOLS AND ABBREVIATIONS ON THIS SHEET APPLY ONLY TO THE ELECTRICAL DRAWINGS.

REFERENCE SYMBOLS

	POWER & CONTROL CONDUIT & WIRE TAG, SEE SCHEDULE
	CONTROL CONDUIT & WIRE TAG SEE SCHEDULE
	SIGNAL CONDUIT & WIRE TAG, SEE SCHEDULE
	TELEPHONE CONDUIT & WIRE TAG
	SPARE CONDUIT
	CONSTRUCTION NOTE
	MECHANICAL EQUIP. DESIGNATION
	INSTRUMENT DESIGNATION
	AVAILABLE FAULT CURRENT. PROVIDE EQUIPMENT MEETING OR EXCEEDING



30% SUBMITTAL

DRAINAGE MAP # _____
WATER GRID # _____
SEWER GRID # _____

NO	DATE	BY	APPR	REVISIONS

MSA Murray Smith & Associates, Inc.
Engineers/Planners
2707 Colby Avenue, Suite 1110 PHOEN 425.252.9003
Everett, Washington 98201-3566 FAX 425.252.8853

Approved By
UTILITIES ENGINEERING MANAGER DATE
PROJECT MANAGER DATE

NPH 8/26/10
DESIGNED BY HANNA.GIL DATE 3/14/12
DRAWN BY TJP DATE 8/26/10
CHECKED BY DATE



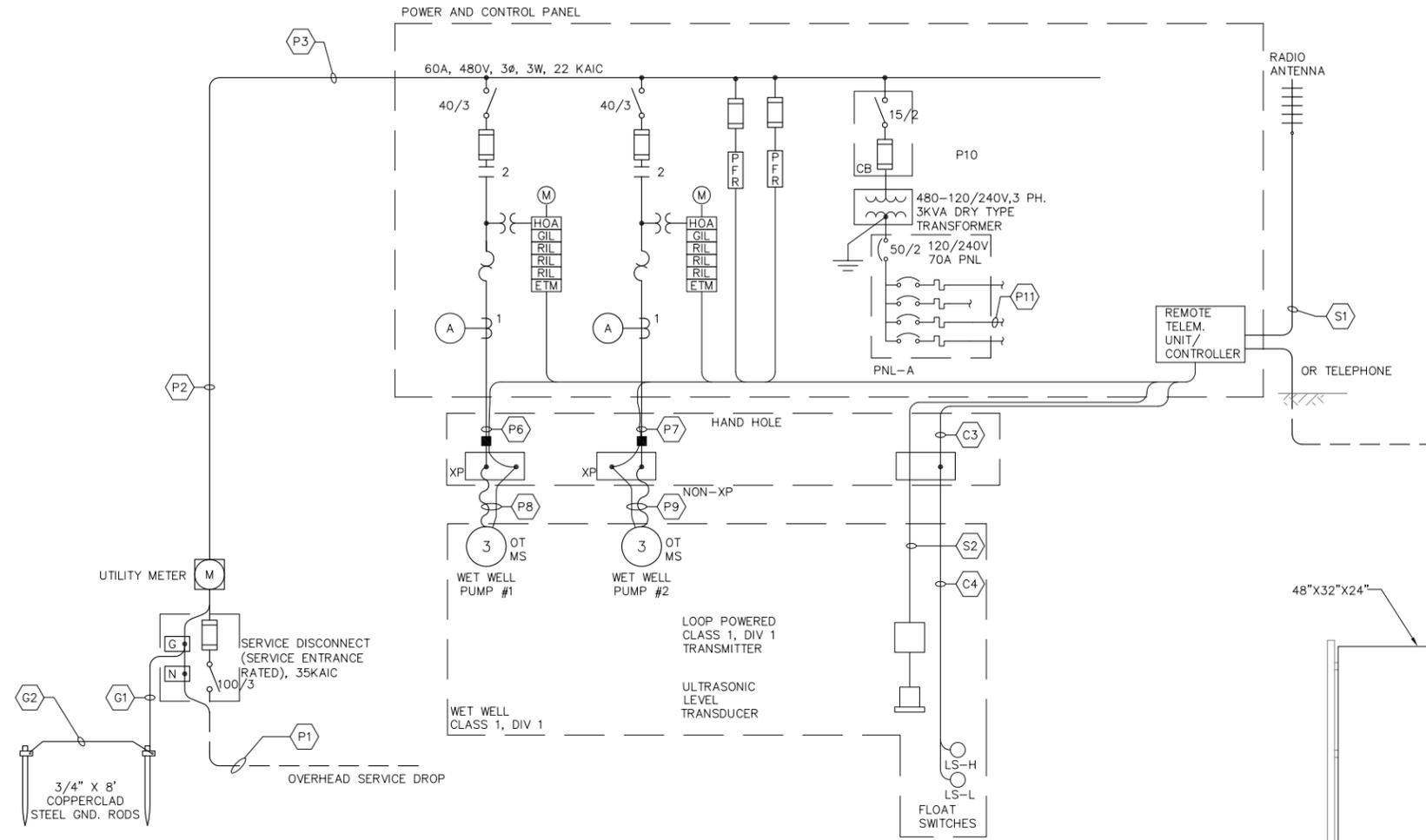
City of Bellevue
UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT (MEYDENBAUER BAY)

SYMBOLS AND ABBREVIATIONS

SEC 31 TWP 25 RGE 5 SHT E0 OF 13

I:\D2\11\121-002 MSA Bell Meydenbauer WWPS Drawings\121002-E1.dwg E1 Plot Date: 3/15/2012 10:14 AM Plotted by: HANNA.GIL



ONE-LINE DIAGRAM

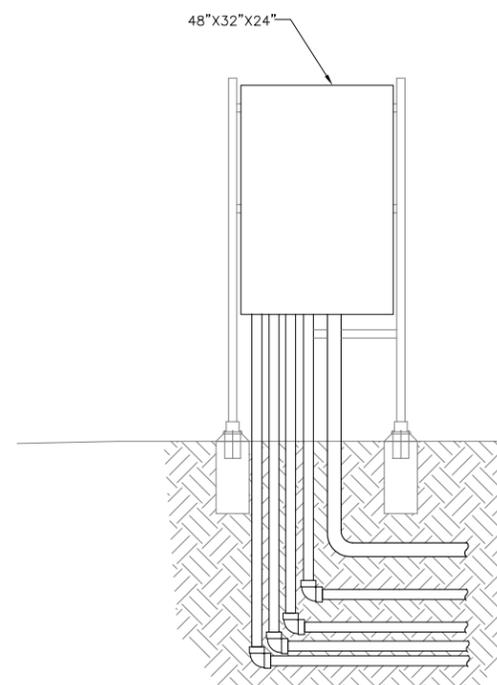
SCALE: NONE

BELLEVUE MEYDENBAUER WWPS SERVICE ENTRANCE DEMAND CALCULATIONS									
LOAD DESCRIPTION	NOTES	LRA	CODE LETTER (LRA)	HP	KVA	DEMAND LOAD		MAXIMUM	
						DF	KVA DEMAND	STARTING CURRENT	
LIFT STATION									
PUMP 1		32	G	3	3.7	1.25	4.6	2.	4.8
PUMP 2		32	G	3	3.7	1	3.7	1	4.8
T1					3	1	3.0	1.	6.3
				HP	KVA		KVA		
				6	10.4		11		
							AMPS		AMPS
							14		15.85
TOTAL SYSTEM AMPS AT 480 V 3 PHASE =									

- 1. RUNNING AMP
- 2. STARTING AMP(LRA)

POWER AND CONTROL PANEL ELEVATION

SCALE: NONE



30% SUBMITTAL

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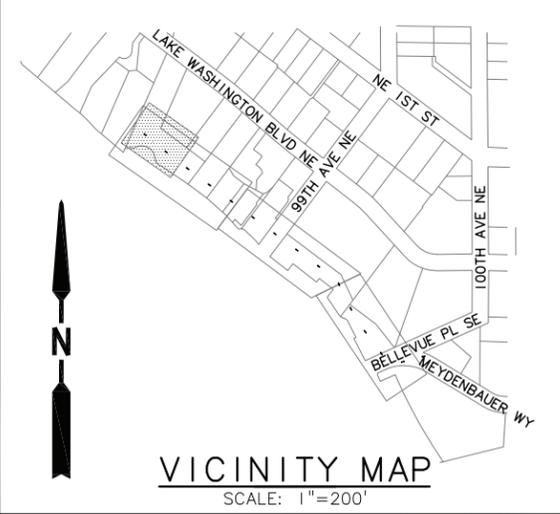
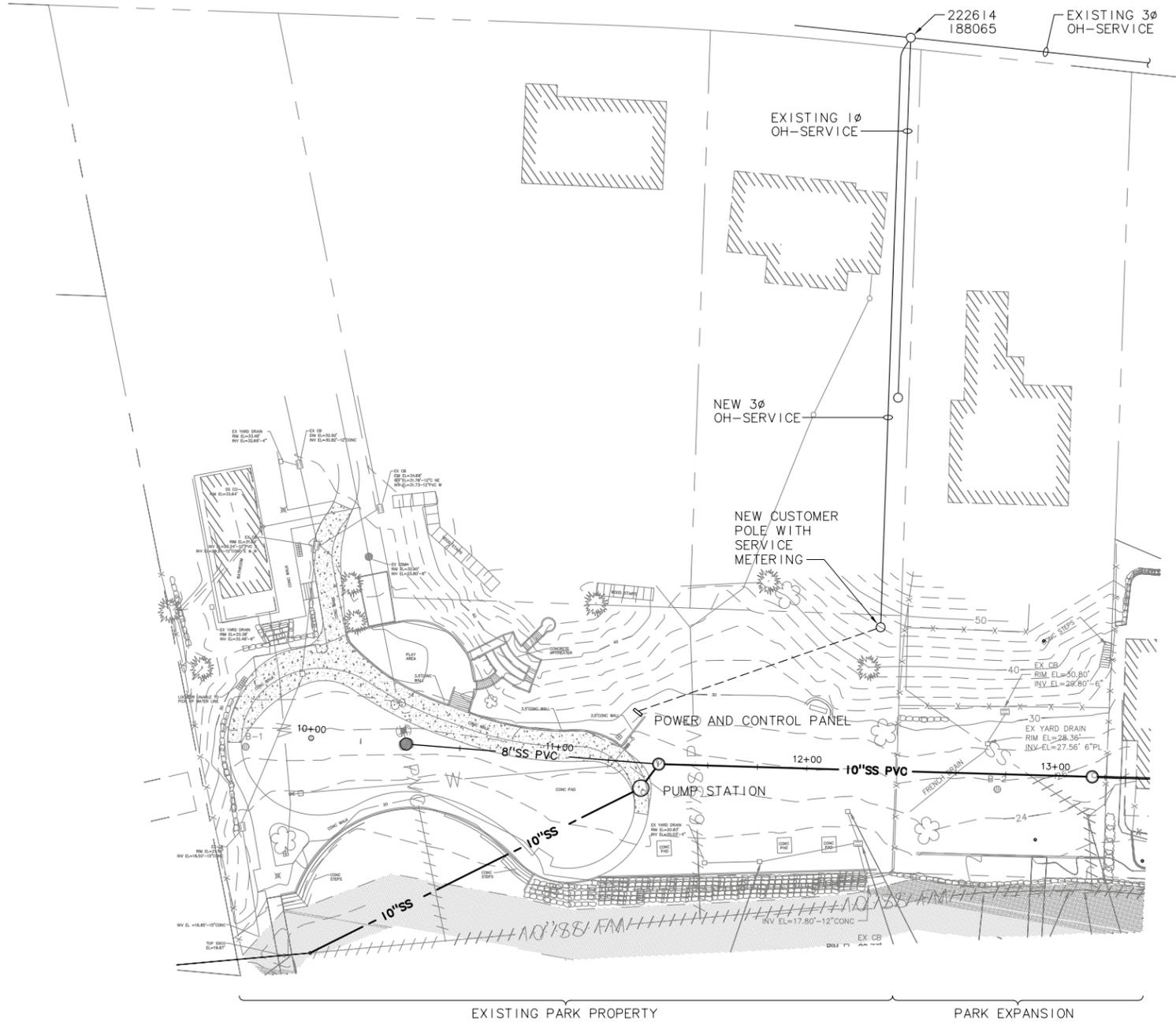
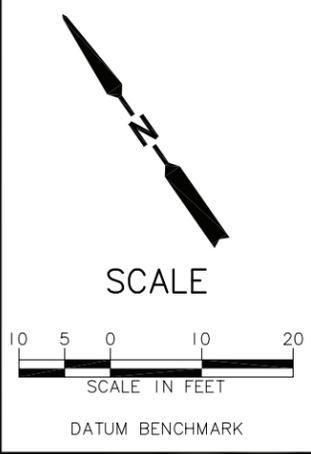
NPH 8/26/10
 DESIGNED BY DATE
 HANNA.GIL 3/15/12
 DRAWN BY DATE
 TJP 8/26/10
 CHECKED BY DATE



City of Bellevue
 UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT (MEYDENBAUER BAY)
 ONE LINE DIAGRAM
 SEC. 31 TWP 25 RGE 5 SHT E1 OF 13

I:\D2\11\1121-002 MSA Bell Meydenbauer WWPS\Drawings\1121002-E2.dwg E2 Plot Date: 3/14/2012 11:45 AM Plotted by: HANNA.GIL



30% SUBMITTAL

DRAINAGE MAP # _____
 WATER GRID # _____
 SEWER GRID # _____

SITE PLAN

SCALE: 1"=20'

NO	DATE	BY	APPR	REVISIONS

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 2707 Colby Avenue, Suite 1110 PHONR 425.252.9003
 Everett, Washington 98201-3566 FAX 425.252.8853

Approved By

 UTILITIES ENGINEERING MANAGER DATE

 PROJECT MANAGER DATE

NPH 8/26/10
 DESIGNED BY DATE
 HANNA.GIL 3/14/12
 DRAWN BY DATE
 TJP 8/26/10
 CHECKED BY DATE



City of Bellevue
 UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT
 (MEYDENBAUER BAY)

ELECTRICAL SITE PLAN

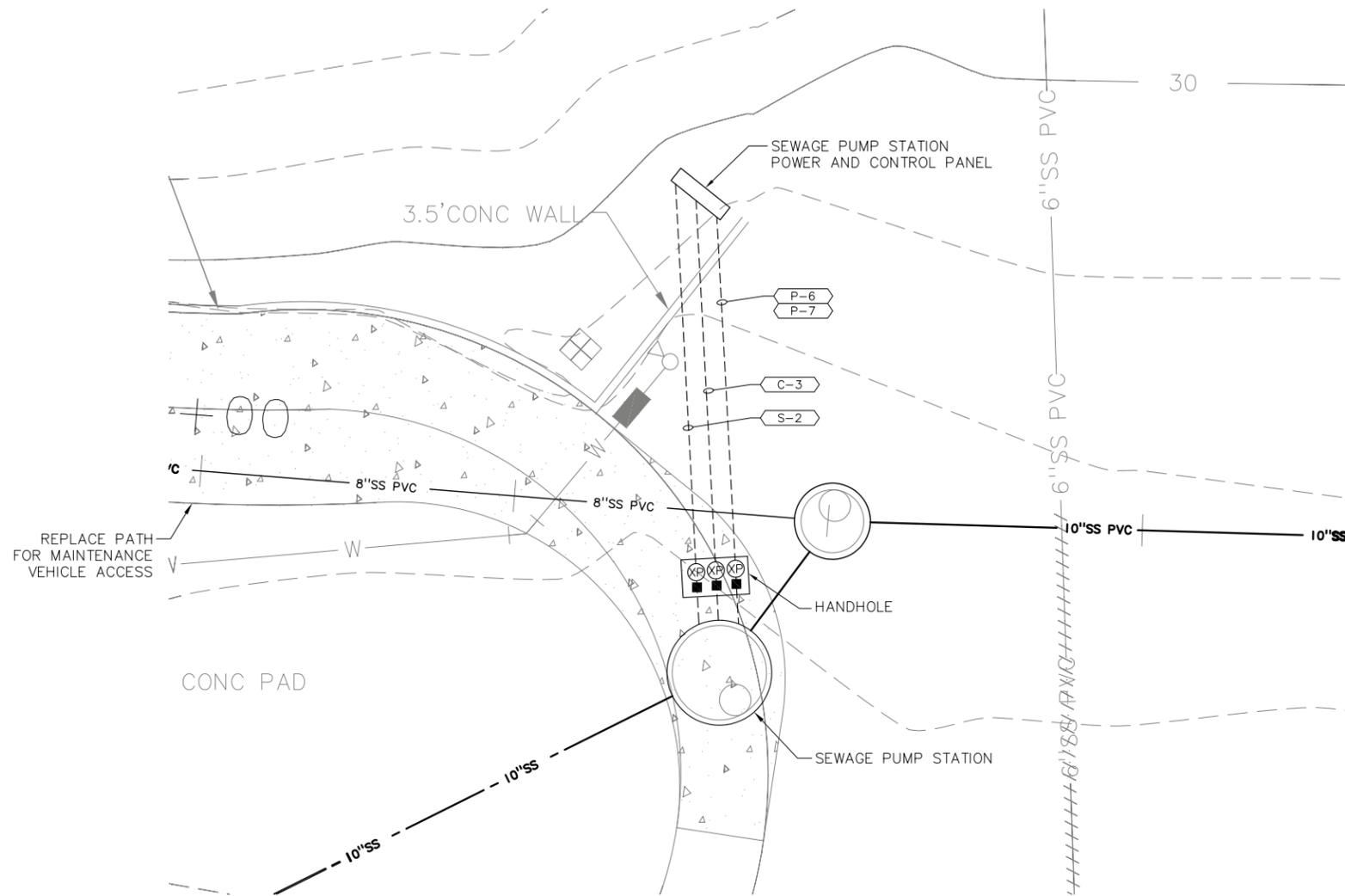
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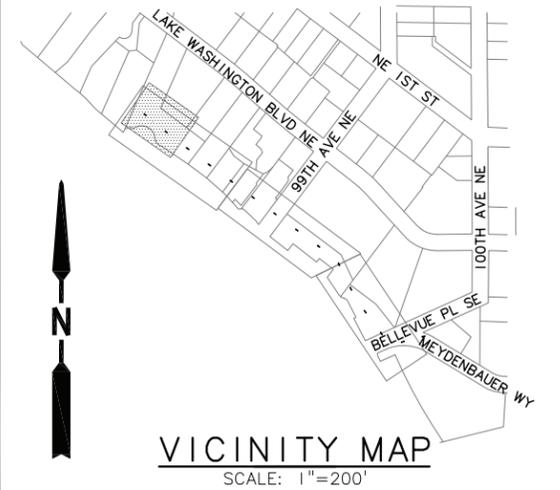
SCALE



DATUM BENCHMARK



SITE PLAN
SCALE: 1"=5'



30% SUBMITTAL

DRAINAGE MAP # _____
 WATER GRID # _____
 SEWER GRID # _____

NO	DATE	BY	APPR	REVISIONS

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City of Bellevue
 UTILITIES DEPARTMENT

SEWER LAKE LINE REPLACEMENT PROJECT
 (MEYDENBAUER BAY)

PS PLAN & ELEVATION