# CITY OF BELLINGHAM

DEPARTMENT OF PARKS AND RECREATION

BOULEVARD PARK OVERWATER WALKWAY

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## DRAWING LIST

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**PARKS AND RECREATION DIRECTOR**

PAUL LEUTHOLD

**CONSULTING ENGINEERS:**
BergerABAM Inc.
33301 9TH AVENUE SOUTH
FEDERAL WAY, WASHINGTON 98003–6395

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**30% SUBMITTAL**
NOTES:

1. ALL WORK SHALL BE STRICTLY IN ACCORDANCE TO THE REQUIREMENTS OF THE VARIOUS PERMITS OBTAINED BY THE OWNER FOR THIS PROJECT. SEE NOTES ON DRAWING S-1 FOR ADDITIONAL INFORMATION.

2. IN-WATER WORK SHALL BE LIMITED TO THE PERIOD OF 16 JULY TO 21 JANUARY.

3. SEDIMENT QUALITY – THE PROJECT AREA HAS BEEN IDENTIFIED AS HAVING ISOLATED AREAS OF SEDIMENTS WITH HIGH LEVELS OF PAHs. FOR FURTHER INFORMATION, REFER TO PARAGRAPH 5.2 OF THE BIOLOGICAL EVALUATION CONTAINED IN THE SPECIFICATIONS.

4. CONSTRUCTION SHALL BE PERFORMED IN A MANNER THAT LIMITS IMPACTS TO EEL GRASS BEDS. ACCESS WITHIN THE EEL GRASS BED AREA IS LIMITED. FLOATING EQUIPMENT MAY BE TEMPORARILY POSITIONED OVER EEL GRASS BEDS TO PROVIDE THAT THE EQUIPMENT DOES NOT GROUND AT LOW TIDES. WORK EQUIPMENT SHALL NOT SHADE EEL GRASS BEDS FOR MORE THAN 3 CONSECUTIVE DAYS. SPUDS OR ANCHORS USED TO HOLD EQUIPMENT IN PLACE SHALL BE POSITIONED OUTSIDE OF THE DESIGNATED EEL GRASS BEDS.

5. ALL WORK SHALL COMPLY WITH WATER QUALITY RESTRICTIONS IMPOSED BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY (WAC 173-201A-242 AND WAC 173-201A-400). THESE STANDARDS STATE THAT TURBIDITY LEVELS CANNOT EXCEED 5 NTUS ABOVE BACKGROUND LEVELS OF 10 NTUS OR LESS AT 200 FT FROM THE POINT OF CONSTRUCTION ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR TURBIDITY MEASUREMENTS.
NOTES:
1) REMOVE AND DISPOSE OF 3,332 SF OF TIMBER FRAME PIER AND WHARF.
2) REMOVE AND DISPOSE OF ___ CREOSOTE TREATED TIMBER PILES.
3) REMOVE AND DISPOSE OF ___ STEEL HX-X PILES.

LEGEND
- DEMO EXISTING STURCTURE
- DEMO EXISTING ASPHALT PATH

EXISTING TIMBER WHARF (LOOKING WEST)

EXISTING TIMBER PIER (LOOKING NORTH)

EXISTING TIMBER WHARF FRAMING

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
DEMOLITION PLAN
1 OF 2

30% SUBMITTAL
1. STRUCTURAL

A. ALL METHODS AND MATERIALS SHALL CONFORM TO THE AMERICAN ASSOCIATION OF STATE HIGHWAY (AASHO) LATEST EDITION.

B. ALL DESTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) AND "TYPICAL CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318), LATEST EDITION.

C. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION THEREOF SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION," LATEST EDITION.

D. WELDING OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE LATEST EDITION OF "STRUCTURAL WELDING CODE-STEEL" (AWS D1.1).

E. REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF "STRUCTURAL WELDING CODE-REINFORCING STEEL" (AWS D1.4).

1. THE STRUCTURAL WELDING CODE - REINFORCING STEEL

A. ALL METHODS AND MATERIALS SHALL CONFORM TO THE WASHINGTON STATE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND SHELTER CONSTRUCTION AS ENHANCED BY THE WASHINGTON DEPARTMENT OF TRANSPORTATION (WDOT) AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY (AASHTO) WASHINGTON STATE CHARTER, LATEST EDITION.

GUILDRY

1. THESE NOTICES CONTAIN IMPORTANT INFORMATION AND ARE NOT CONCRETE FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL VERIFY INFORMATION BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS.

2. ANY DAMAGE INCURRED IN THE EXECUTION OF THIS CONTRACT IS THE CONTRACTOR'S RESPONSIBILITY.

3. ROCK ANCHORS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS, INCLUDING ROCK ANCHORS, SHALL BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEMOLITION網頁 SPECIFICATIONS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.

4. ALL ROCK ANCHORS SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS, INCLUDING ROCK ANCHORS, SHALL BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL REGULATIONS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEMOLITION MATERIALS, INCLUDING ROCK ANCHORS, TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.

REINFORCED CONCRETE

1. REINFORCING STEEL

A. PRESTRESSING STEEL SHALL BE UNNOTIFIED 60-LIBRAIRIAND "A"-PITCHED STEEL WHERE CONFORMING TO ASTM A 416, GRADE 60.

B. REINFORCING STEEL SHALL BE CONFORM TO ASTM A 615, GRADE 60.

2. ALL SHIP BOARD MATERIALS FOR PRECAST CONCRETE ELEMENTS, TIMBER ELEMENTS, REPAIR PROCEDURES, REINFORCEMENT PROCEDURES, ETC., MISCELLANEOUS STEEL SHALL BE SUBMITTED TO AND REVIEWED BY THE CITY INSPECTOR.

3. ELEVATIONS SHOWN ARE IN THE MILK DATUM.

DEMOLITION

1. THE CONTRACTOR SHALL COMPLETE ALL NECESSARY PREPARATIONS TO STRICTLY CONFORM TO THE LIMITATIONS OF THE WORK. FLOATING DECKS SHALL BE IN PLACE AND APPROVED BY THE OWNER PRIOR TO THE ENTRANCE OF ANY CONSTRUCTION.

2. THE CONTRACTOR SHALL COMPLETE ALL NECESSARY PREPARATIONS TO STRICTLY CONFORM TO THE LIMITATIONS OF THE WORK. FLOATING DECKS SHALL BE IN PLACE AND APPROVED BY THE OWNER PRIOR TO THE ENTRANCE OF ANY CONSTRUCTION.

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SECTION - TYPICAL BENT

SCALE: 3/8"=1'-0"

NOTE: FOR TYPICAL DIMENSIONS AND CALLOUTS, SEE

SECTION - BENT WITH GRATING

SCALE:

NOTE: FOR TYPICAL DIMENSIONS AND CALLOUTS, SEE

SECTION - BENT WITH ALCOVE

SCALE: 3/8"=1'-0"

30% SUBMITTAL
PLAN - TYPICAL PILE CAP

SECTION - TYPICAL PILE CAP

SECTION - AT PILE

ELEVATION - TYPICAL PILE CAP
**PLAN**

*G* PANEL,

**ELEVATION**

**TYPE "A1" DOUBLE TEE**

**PRECIS QUESTION**

**SECTION -- TYPE "A1" PANEL**

**SCHEDULE -- PRECAST DOUBLE TEES**

**LENTON TERMINATOR**

**DETAIL -- BAR SPLICE**

**30% SUBMITTAL**
MARK REVISION DESCRIPTION

L = 46'-2" TYPE "A"

PLAN

E PANEL

ELEVATION

TYPE "B1" PANEL

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

NOTE:
- REINFORCING STEEL BARS HAVE NOT BEEN DESIGNED FOR B1 PANELS

SECTION - TYPE "B1" PANEL

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

30% SUBMITTAL

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
DECK PANEL DETAILS AND SCHEDULE
2 OF 2
BENCH ALCOVE

PLAN - TYP POST SPACING

ELEVATION - HANDRAIL

NOTES:
1. 5'-10 3/4" TANGENT ALIGNMENT VARIES CURVED ALIGNMENT
2. GUARD RAIL LINE AT THIS LOCATION IS NOT STRAIGHT DUE TO CURVATURE OF THE STRUCTURE.

SECTION - HANDRAIL

DETAIL - POST & PILE CAP

HANDRAIL DETAILS

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION

30% SUBMITTAL
ELECTRICAL NOTES:

CONTRACTOR SHALL PROVIDE SEISMIC DEFLECTION COUPLING (TYPICAL OF 2x4 TRANSITION FROM LANDSIDE TO UNDERSIDE OF RAILROAD.)
PARTIAL ELECTRICAL BOARDWALK PLAN

125V, 20A, GFI DUPLEX RECEPTACLE WITH MECHA STR "IN USE" COVER TYPICAL OF THREE (3) THIS DRAWING.

WINONA LIGHTING, WALDEN LED BOARDWALK LIGHT FIXTURE OR APPROVED EQUAL.

MINI POWER ZONE MPC LOCATION. SEE STRUCTURAL DRAWING FOR MOUNTING REQUIREMENTS.

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION

PARTIAL BOARDWALK ELECTRICAL PLAN

30% SUBMITTAL
WINONA LIGHTING, WALDEN LED BOARDWALK LIGHT FIXTURE OR APPROVED EQUAL. TYPICAL OF FIFTY (50) THIS DRAWING.

PARTIAL ELECTRICAL BOARDWALK PLAN
SCALE: 1"=20'-0"
PARTIAL ELECTRICAL BOARDWALK PLAN

SCALE: 1"=20'-0"

MIN POWER ZONE MPC2
LOCATION, SEE STRUCTURAL
DRAWINGS FOR MOUNTING
REQUIREMENTS

REVISION DESCRIPTION
BY JPS
DATE

DRAWN BY: SK
DESIGN BY: GLW
CHECKED BY: GLW
PROJECT MGR: GLW

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION

PARTIAL BOARDWALK ELECTRICAL PLAN

DRAWING NO. E-5
PROJECT NO. SAWAT-10-028
DATE: 3/11/10
SHEET NO. 27 OF 29

30% SUBMITTAL

WINDON LIGHTING, WALDEN LED
BOARDWALK LIGHT FIXTURE OR
APPROVED EQUAL - TYPICAL OF
EIGHTY EIGHT (88) THIS SHEET.

WINONA LIGHTING, WALDEN LED
BOARDWALK LIGHT FIXTURE OR
APPROVED EQUAL - TYPICAL OF
EIGHTY EIGHT (88) THIS DRAWING.

HARBOR AREA

BELLINGHAM BAY

HARBOR AREA

30% SUBMITTAL
ELECTRICAL NOTES:
- Electrically held lighting contactors 120V, 60Hz coil. Provide all contactors in a single, NEMA 4 enclosure, 316 stainless steel, with hinged and locking cover mounted below panel MPC1 and MPC2.
- Programmable timeclock with override switch mounted below walkway deck, facing north.

CONDUIT AND WIRE SCHEDULE
- 2/0# (2) #2 CU & (1) #8 CU GRD
- 3/4" #3 (2) #10 CU & (1) #10 CU GRD
- 3/4" #3 (2) #6 CU & (1) #8 CU GRD
- 3/4" #3 (2) #6 CU & (1) #10 CU GRD

LEGEND:
- EXISTING
- NEW

EXISTING/NEW POWER RISER DIAGRAM
NO SCALE

EXISTING METER
Located on exterior of existing restroom building

EXISTING PSE METER
Located on exterior of existing restroom building

EXISTING PUGET SOUND ENERGY (PSE) 225KVA, 240V, 1PH Padmount Transformer

EXISTING RESTROOM BUILDING

NEW 125A/2P CIRCUIT BREAKER

NEW 25KV Dry-Type Transformer, 240V, 1PH, Delta Primary, 480V, 1PH Delta Secondary with Copper Winding, NEMA 3R, 316 Stainless Steel Enclosure. Square D D50H5PA or Equal

CONDUIT AND WIRE SCHEDULE
- 2/0# (2) #2 CU & (1) #8 CU GRD
- 3/4" #3 (2) #10 CU & (1) #10 CU GRD
- 3/4" #3 (2) #6 CU & (1) #8 CU GRD
- 3/4" #3 (2) #6 CU & (1) #10 CU GRD

LIGHTING CONTROL DIAGRAM TYPICAL OF TWO
NO SCALE

EXISTING/NEW POWER RISER DIAGRAM
NO SCALE

EXISTING/NEW POWER RISER DIAGRAM
NO SCALE

EXISTING/NEW POWER RISER DIAGRAM
NO SCALE

EXISTING/NEW POWER RISER DIAGRAM
NO SCALE

EXISTING/NEW POWER RISER DIAGRAM
NO SCALE
MARK REVISION DESCRIPTION

BY

DATE

ATTACHMENT HOLES TO BE MADE INTO WASHER FOR 3" LONG STAINLESS STEEL DECK SCREWS

TAP FLAT WASHER WITH FINED THREAD, SIZED TO MATCH FIXTURE COVER PLATE

TYPE B FLAT WASHER NARROW 5.50" OUTSIDE DIAM. WITH A 2.250" INSIDE DIAM. 0.25" THICKNESS

WINONA LED LIGHTING FIXTURE WALDEN SERIES QF-21 OR APPROVED EQUAL STEP LIGHTING, ALUMINUM FINISH

FIXTURE ATTACHMENT SCREWS TO BE SECURED INTO FLAT STEEL WASHER

NOTE: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL MOUNTING REQUIREMENTS.

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
ELECTRICAL DETAILS

30% SUBMITTAL

DRAWN BY: GLW
CHECK BY: GML

DRAWING NO. E-7
PROJECT NO. SAWAT-10-026
DATE: 3/11/10
SHEET NO. 29 OF 29

CROSS ENGINEERS, INC.
3421 MERSWIN STREET
BELLMONTH, WASHINGTON 98225
FAX: 250-676-6687

BELLINGHAM PARKS AND
RECREATION DEPARTMENT
3424 MERIDIAN STREET
BELLINGHAM, WASHINGTON 98225
FAX: 360-674-6367

NOTE: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL MOUNTING REQUIREMENTS.