



CITY OF BELLINGHAM

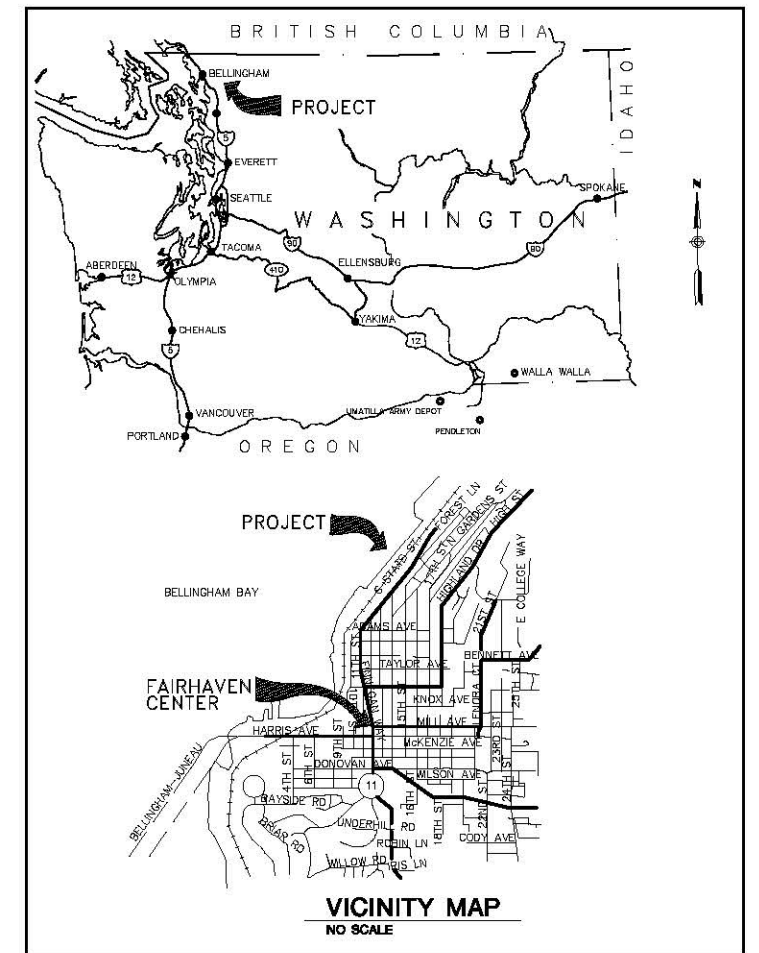
DEPARTMENT OF PARKS AND RECREATION

BOULEVARD PARK OVERWATER WALKWAY

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PARKS AND RECREATION DIRECTOR
PAUL LEUTHOLD

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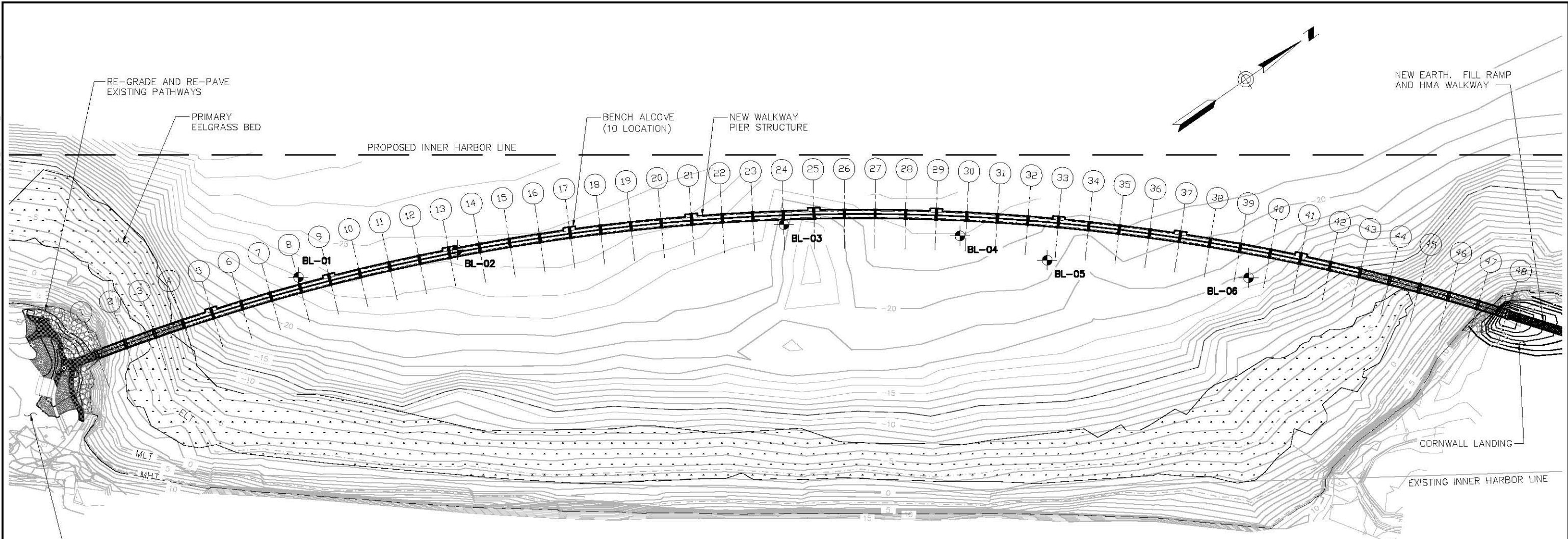
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DEPT OF PARKS AND RECREATION

TITLE SHEET

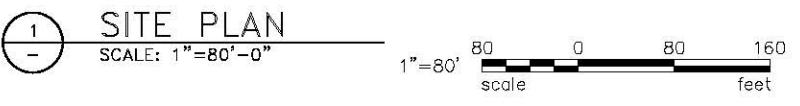
DRAWING NO. T-1
PROJECT NO. SAWAT-10-028
DATE: 3/12/10
SHEET NO. 1 OF 29

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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 AVOIDS IMPACTS TO EEL GRASS BEDS. ACCESS WITHIN THE EEL GRASS BED AREA IS LIMITED. FLOATING EQUIPMENT MAY BE TEMPORARILY POSITIONED OVER EEL GRASS BEDS PROVIDED 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-240 AND WAC 173-201A-400). THESE STANDARDS STATE THAT TURBIDITY LEVELS CANNOT EXCEED 5 NTUS ABOVE BACKGROUND LEVELS OF 50 NTUS OR LESS AT 200 FT FROM THE POINT OF CONSTRUCTION ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR TURBIDITY MEASUREMENTS.



1 SITE PLAN

ELEVATION DATUM:

MLLW
 BORING LOCATIONS (BL-XX). FOR INFORMATION, SEE GEOTECHNICAL DRAFT MEMORANDUM BY GEO ENGINEERS, INC. DATED 08 DEC 2009.

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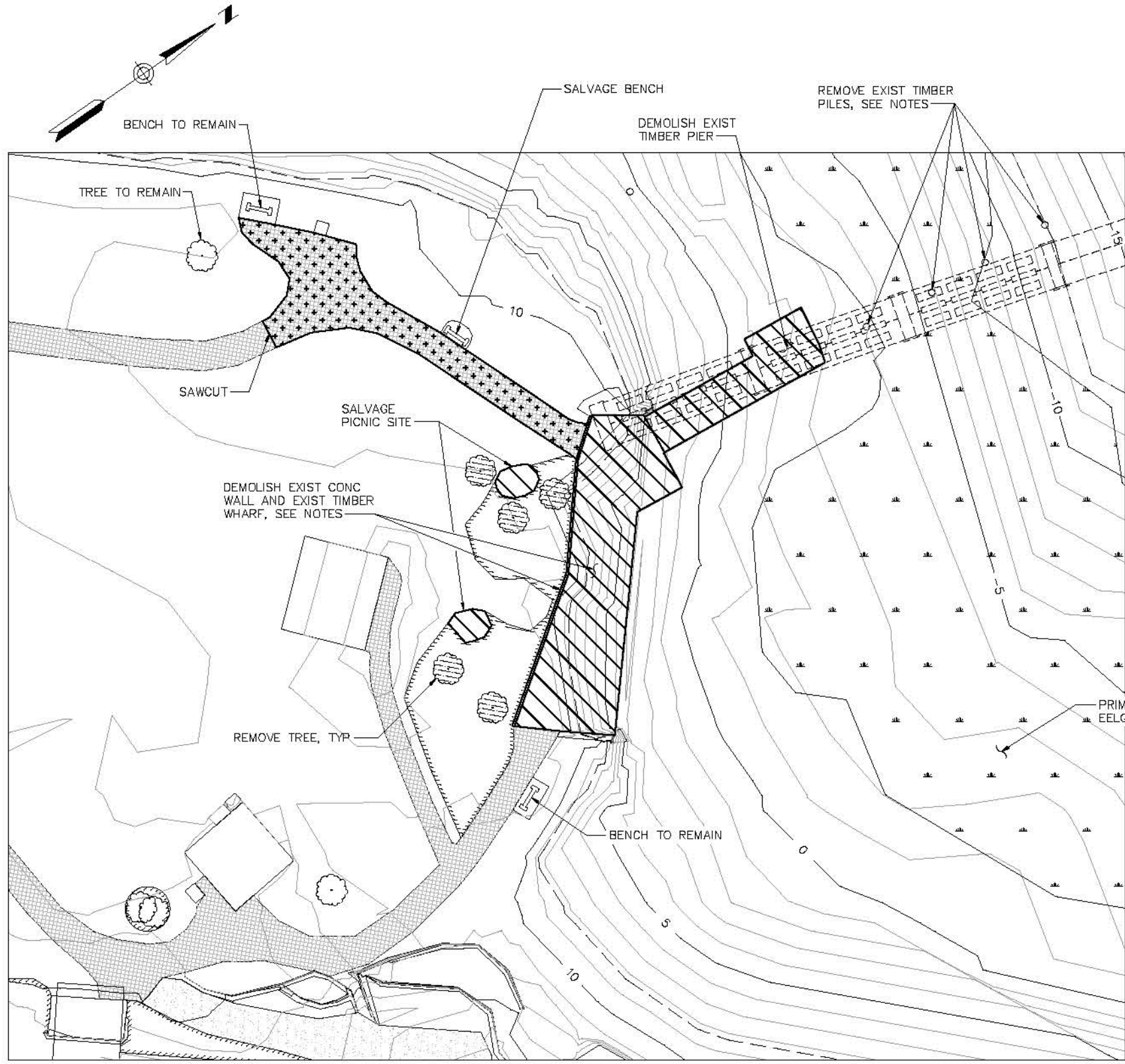
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DEPT OF PARKS AND RECREATION

SITE PLAN

DRAWING NO. **C-1**
 PROJECT NO. **SAWAT-10-028**
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 SHEET NO. **2 OF 29**

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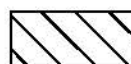
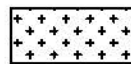
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NOTES:

- 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



2 EXISTING TIMBER WHARF
(LOOKING WEST)

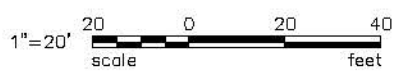


3 EXISTING TIMBER PIER
(LOOKING NORTH)



4 EXISTING TIMBER WHARF FRAMING


1 PLAN - DEMOLITION
SCALE: 1"=20'-0"



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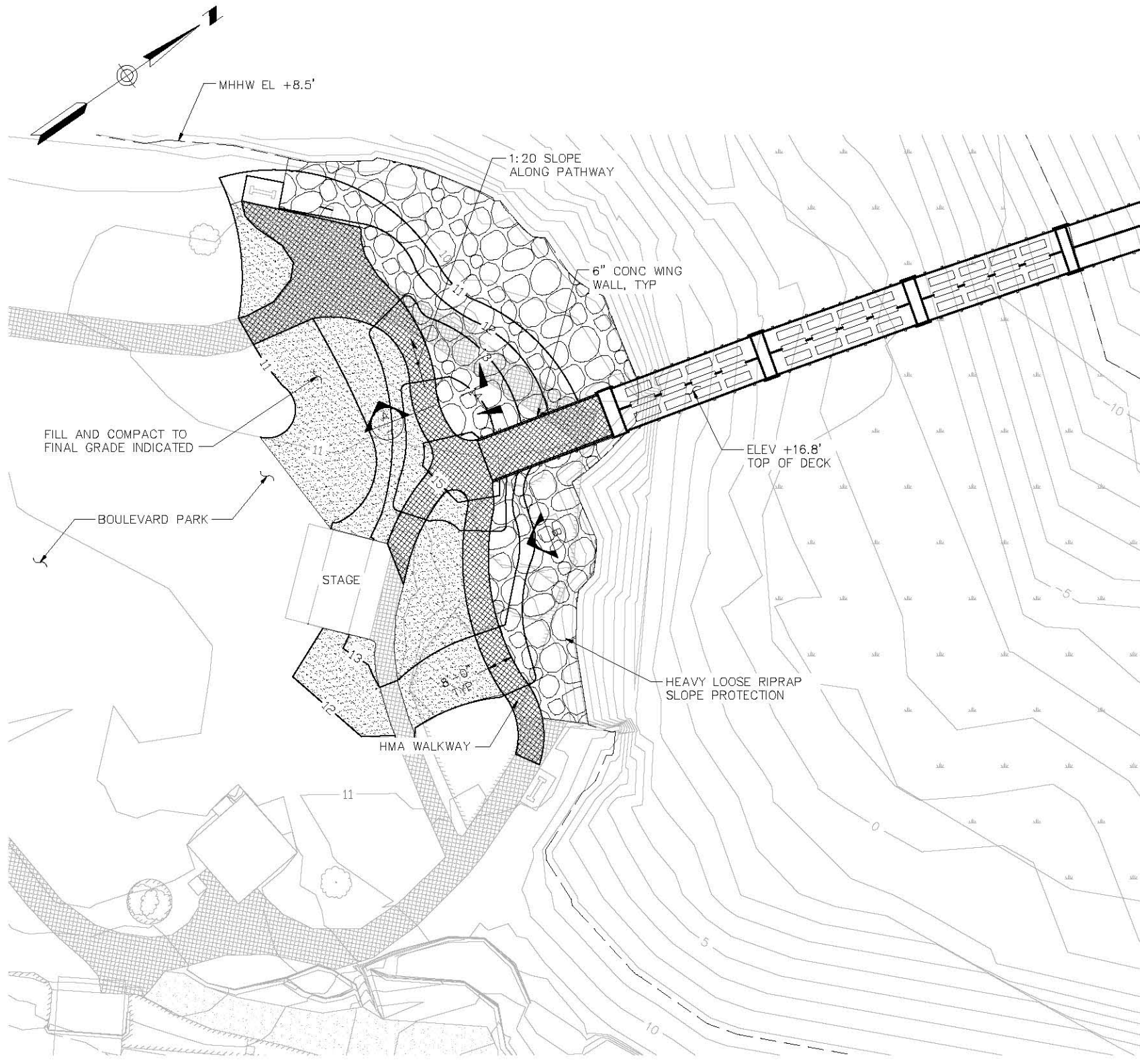
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DEMOLITION PLAN
1 OF 2

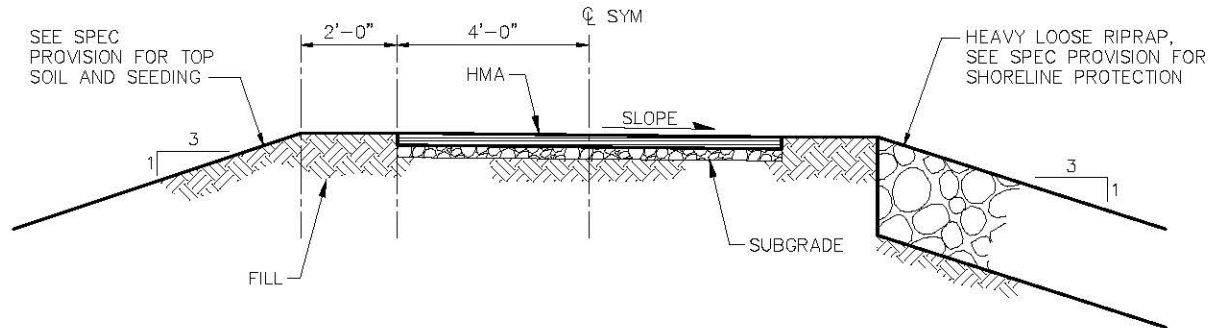
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DATE: **3/12/10**
SHEET NO. **3 OF 29**

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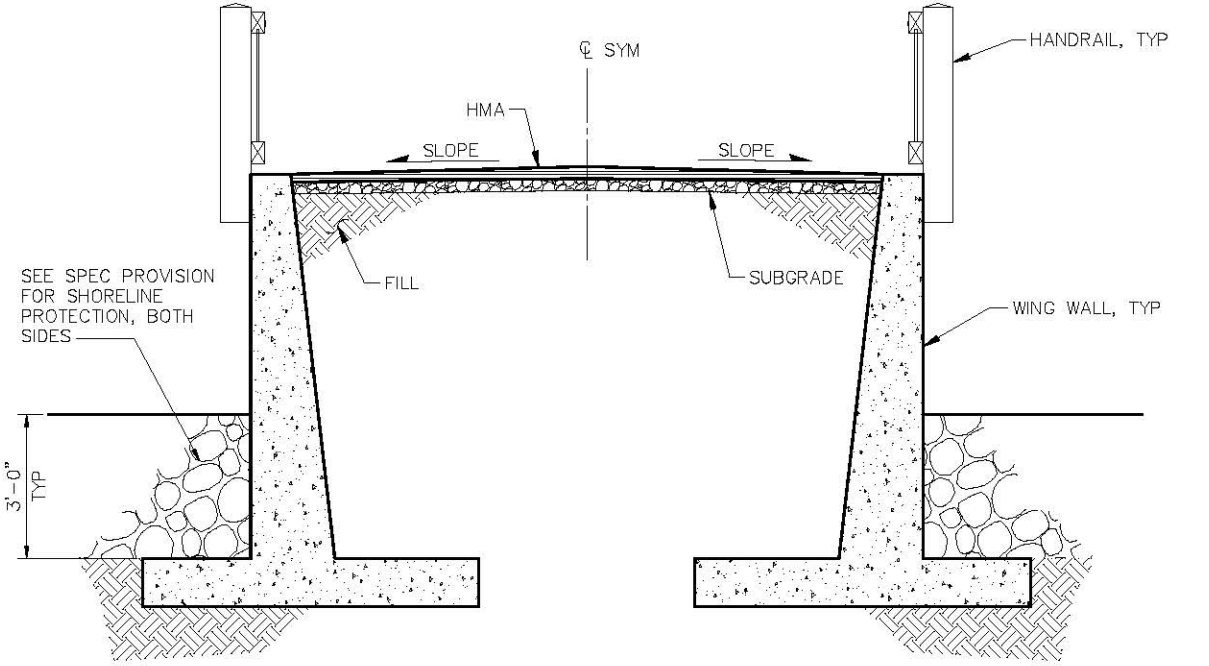
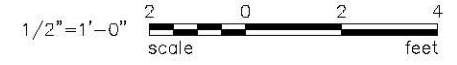
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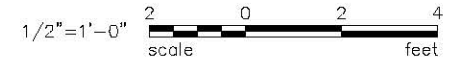
1 PLAN - GRADING AND PAVING @ BOULEVARD PARK
 SCALE: 1"=20'-0"
 1"=20' scale 0 20 40 feet



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



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



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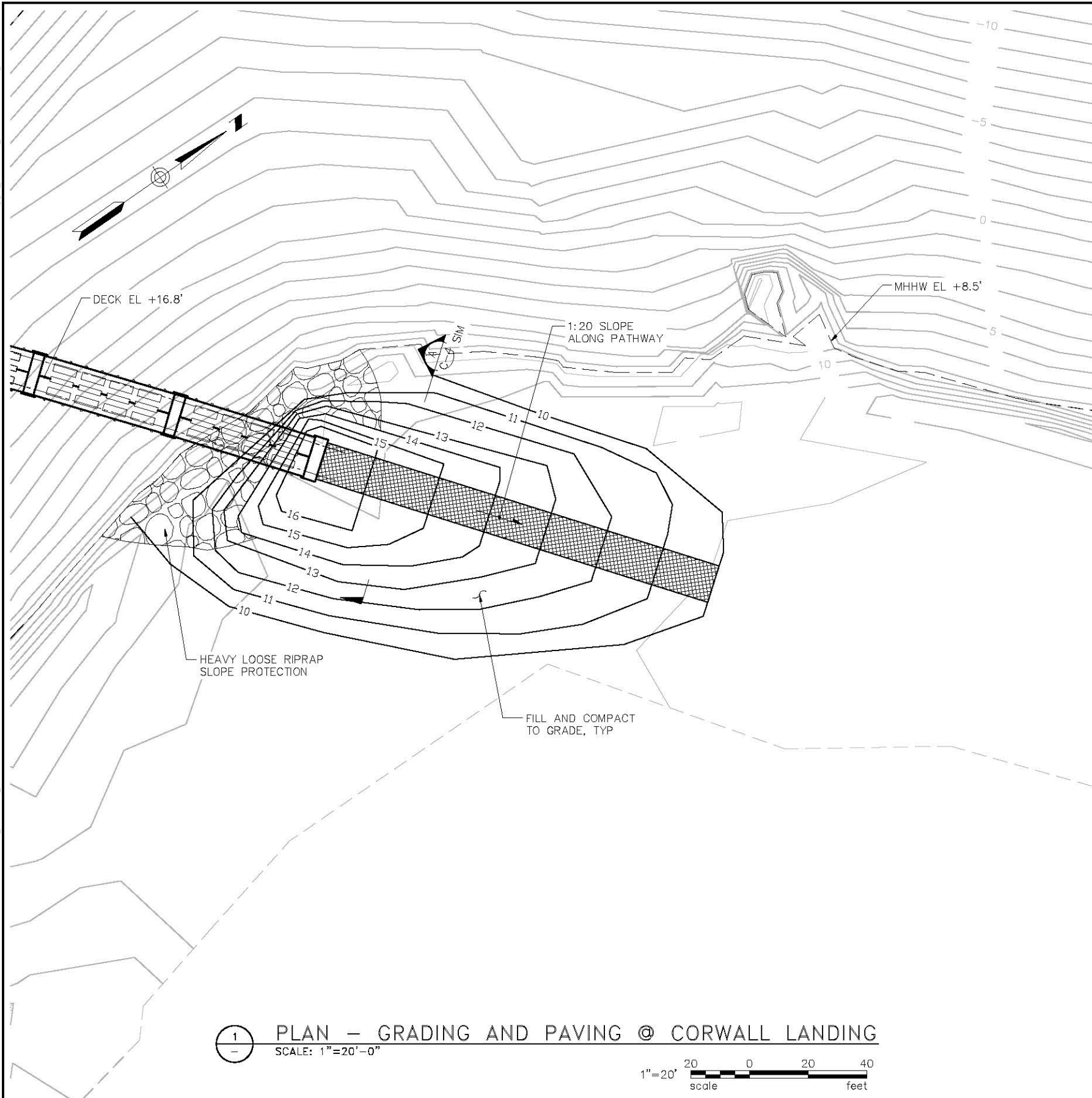
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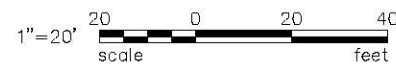
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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
GRADING AND PAVING PLAN
1 OF 2

DRAWING NO. **C-4**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/12/10**
 SHEET NO. **5 OF 29**



1 PLAN — GRADING AND PAVING @ CORWALL LANDING
SCALE: 1"=20'-0"



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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
GRADING AND PAVING PLAN
2 OF 2

DRAWING NO. C-5
PROJECT NO. SAWAT-10-028
DATE: 3/12/10
SHEET NO. 6 OF 29

STRUCTURAL NOTES CODES AND STANDARDS

1. STRUCTURAL

- A. ALL METHODS AND MATERIALS SHALL CONFORM TO THE AMERICAN ASSOCIATION OF STATE HIGHWAY (AASHTO), LATEST EDITION.
- B. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318), LATEST EDITIONS.
- 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. WELDING REINFORCIG STEEL SHALL CONFORM TO THE LATEST EDITION OF "STRUCTURAL WLDING CODE-REINFORCING STEEL" (AWS 1.4).

2. CIVIL

- A. ALL METHODS AND MATERIALS SHALL CONFORM TO THE WASHINGTON STATE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) WASHINGTON STATE CHAPTER, LATEST EDITION.

GENERAL

- 1. THESE NOTES CONTAIN GENERAL INFORMATION AND ARE NOT COMPLETE FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL VERIFY INFORMATION GIVEN HERE WITH SPECIFICATIONS AND OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE OWNER BEFORE BEGINNING AFFECTED WORK. THE OWNER WILL RESOLVE ANY SUCH CONFLICTS.
- 2. ALL DIMENSIONS AND DETAILS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION.
- 3. ALL SHOP DRAWINGS FOR PRECAST CONCRETE ELEMENTS, TIMBER ELEMENTS, REPAIR PROCEDURES, REINFORCING STEEL, AND MISCELLANEOUS STEEL SHALL BE SUBMITTED TO AND REVIEWED BY THE OWNER PRIOR TO FABRICATION.
- 4. ELEVATIONS SHOWN ARE IN THE MLLW DATUM.

DEMOLITION

- 1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF THE WORK. FLOATING DEBRIS BOOMS AND SILT CURTAINS SHALL BE IN PLACE AND APPROVED BY THE OWNER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION..
- 2. ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY/STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION SHALL BE REPAIRED, REPLACED, AND/OR RECONSTRUCTED BY THE CONTRACTOR AT HIS EXPENSE, TO ITS PREDISTURBED CONDITION AS DIRECTED BY THE OWNER.
- 3. ALL DEMOLISHED MATERIAL SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING AND DISPOSAL OF ALL DEMOLITION MATERIALS, INCLUDING CREOSOTE TREATED MATERIALS, SHALL BE IN STRICT ACCORDANCE WITH ALL STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.

PILING

- 1. PILING SHALL BE DRIVEN TO THE TIP ELEVATIONS INDICATED ON THE DRAWINGS. PILE DRIVING WILL ONLY BE ALLOWED DURING DAYLIGHT HOURS OR BETWEEN 07:00 A.M. AND 6:00 P.M. WHICHEVER IS LONGEST.
- 2. PILES SHALL DEVELOP A MINIMUM DESIGN COMPRESSION LOAD CAPACITY OF 190 TONS, AND MINIMUM UPLIFT OF 45 TONS.
- 3. PIPE PILING SHALL BE FABRICATED FROM STEEL PLATE AND HAVE A MINIMUM DIAMETER AND WALL THICKNESS AS INDICATED. STEEL PIPE PILING SHALL CONFORM TO ASTM A252, GRADE 3 REQUIREMENTS WITH A MINIMUM YIELD STRENGTH OF 50 KSI
- 4. PIPE PILING SHALL BE COATED AS SPECIFIED.

REINFORCED CONCRETE

- 1. REINFORCING STEEL
 - A. PRESTRESSING STEEL SHALL BE UNCOATED LOW-RELAXATION SEVEN-WIRE STRAND CONFORMING TO ASTM A 416, GRADE 270.
 - B. REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A 615, GRADE 60.
 - C. WELDED BARS IN PRECAST DOUBLE TEE BEAMS SHALL CONFORM TO ASTM A706/A706M W/ CARBON EQUIV. <0.05
 - D. SPLICING OF LONGITUDINAL REINFORCEMENT OVER 40 FT IN LENGTH, EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS, SHALL BE PERMITTED. SPLICES SHALL BE CLASS "B" (ACI 318) STAGGERED WITH NO MORE THAN 50% OF THE BARS BEING SPLICED AT ANY ONE LOCATION. SPlice LENGTH SHALL BE INCREASED FOR TOP BAR CONDITIONS AS PER ACI 318. MINIMUM LENGTH OF LAP SPlice SHALL BE 50 TIMES THE BAR DIAMETER.
 - E. PROVIDE CORNER BARS AT ALL CORNERS. CORNER BARS SHALL MATCH THE NUMBER/SPACING AND DIAMETER OF ALL HORIZONTAL REINFORCEMENT AT THE CORNER. TERMINATED STRAIGHT BARS SHALL EXTEND FULL AVAILABLE LENGTH INTO ADJOINING MEMBERS. SPlice LENGTH SHALL BE INCREASED FOR TOP BAR CONDITIONS AS PER ACI 318. SPlice CORNER BAR TO TERMINATED STRAIGHT BAR WITH A MINIMUM SPlice LENGTH OF 50 BAR DIAMETERS.
 - F. BAR TERMINATORS AS INDICATED
- 2. PRECAST CONCRETE:

PRECAST PILE CAPS	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS
PRECAST CONCRETE PANELS	4000 PSI
	7000 PSI
- 3. CAST-IN-PLACE CONCRETE:

ALL CAST-IN-PLACE CONCRETE	MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS
	4000 PSI
- 4. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 IN.
- 5. CONSTRUCTION JOINTS SHALL BE PROVIDED ONLY AS NOTED ON THE DRAWINGS AND AS SPECIFICALLY PERMITTED BY THE OWNER.
- 6. SPILLING FRESH CONCRETE INTO THE BAY DURING CONCRETE PLACEMENT ACTIVITIES IS STRICTLY PROHIBITED.

ROCK ANCHORS

- 1. HIGH STRENGTH STEEL BARS FOR ROCK ANCHORS SHALL CONFORM TO ASTM A722.
- 2. GROUT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 3. DOUBLE CORROSION PROTECTION SHALL BE PROVIDED WITH THE SPECIFICATIONS AND PT14.
- 4. ROCK ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.

STRUCTUAL TIMBER

- 1. ALL TIMBER SHALL BE PACIFIC COAST DOUGLAS FIR, DENSE GRADE NO. 2 AND SHALL CONFORM TO THE LATEST SPECIFICATIONS OF THEWEST COAST LUMBER INSPECTION BUREAU (WCLIB).
- 2. ALL TIMBER SHALL BE SURFACED AS NOTED ON THE DRAWINGS.
- 3. ALL TIMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVER ASSOCIATION (AWPA) STANDARDS AND SHALL BE TREATED IN ACCORDANCE WITH AWPA C2 AND P5, ACZA WITH A MINIMUM RETENTION OF 0.4 LB PER CUBIC FOOT STORAGE, HANDLING, CARE, AND FIELD TREATMENT OF TREATED TIMBER SHALL BE IN ACCORDANCE WITH AWPA STANDARD M4 OR AS SPECIFIED WITHIN THIS CONTRACT.
- 4. FABRICATION: ALL TREATED TIMBER SHALL BE, INSOFAR AS PRACTICABLE, CUT TO LENGTH AND BORED BEFORE TREATMENT. HOLES FOR BOLTS SHALL BE 1/16 IN. LARGER THAN THE BOLT. LEAD HOLES FOR DOWELS AND SPIKES SHALL BE PREBORED 1/16 IN. LESS THAN THE FASTENER SHANK DIAMETER. LEAD HOLES FOR LAG BOLTS SHALL BE PREBORED TO 65 PERCENT OF THE SHANK DIAMETER.
- 5. HARDWARE: BOLTS AND MISCELLANEOUS HARDWARE NECESSARY FOR THE COMPLETE INSTALLATION SHALL BE HOT-DIP GALVANIZED. BOLTS SHALL BE TIGHTENED WHEN INSTALLED AND RETIGHTENED BEFORE FINAL ACCEPTANCE OF THE CONTRACT. ALL NAILS AND SPIKES SHALL BE HOT-DIP GALVANIZED.

MISCELLANEOUS STEEL

- 1. ALL MISCELLANEOUS STEEL SHAPES AND PLATES, EXCEPT AS NOTED BELOW, SHALL CONFORM TO ASTM A 36.
- 2. ALL BOLTS AND NUTS SHALL CONFORM TO ASTM A 307, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- 3. ALL MISCELLANEOUS STEEL, INCLUDING ALL FASTENERS, SHALL BE HOT-DIP GALVANIZED. GALVANIZE ITEMS AFTER FABRICATION AS FAR AS PRACTICABLE. GALVANIZING DAMAGED ACCIDENTALLY OR DUE TO FIELD WELDING SHALL BE RESTORED WITH A FIELD-APPLIED ZINC-BASE ALLOY IN ACCORDANCE WITH ASTM A 780.
- 4. PROVIDE BLEED HOLES IN EMBEDDED PLATES AND SHAPES AT 24" ON CENTER MAXIMUM.
- 5. ALL MISCELLANEOUS PIPE SHALL CONFORM TO ASTM A 53, GRADE B.

DESIGN CONCEPT

- 1. VERTICAL LOADS:

LOADS ARE DISTRIBUTED THROUGH DECK PANELS, DECK PANELS TO PILE CAPS, PILE CAPS TO PILES, PILES TO SOIL AND BEDROCK IN BEARING.
- 2. HORIZONTAL LOADS:

HORIZONTAL LOADS, INCLUDING SEISMIC FORCES AND SOIL PRESSURE, ARE TRANSMITTED THROUGH THE DECK ACTING AS A DIAPHRAGM TO THE PILES.

SEISMIC DESIGN

- 1. SEISMIC DESIGN IS IN ACCORDANCE WITH DESIGN RESPONSE SPECTRUM FOR BELLINGHAM
 - SITE CLASS E
 - MCE ≈ 2500 YR EQ
 - 2/3 MCE PER IBC 2006 AASHTO
 - PGA = 0.361
 - SA (0.2) = 0.988G
 - SA (1.0) = 0.35G
 - CLE ≈ 72 YR
 - PGA = 0.24
 - SA (0.2) = 0.24G
 - SA (1.0) = 0.06G

DESIGN CRITERIA

DESIGN LOADS

- 1. UNIFORM LIVE LOAD ON PIER:
 - 100 PSF ON ALL/ANY COMBINATION OF SPANS.
- 2. SPECIAL INSPECTION:
 - THE CRITICAL ELEMENTS REQUIRING SPECIAL INSPECTION PER AASHTO ARE AS FOLLOWS:
 - A. CONCRETE
 - B. BOLTS INSTALLED IN CONCRETE
 - C. REINFORCING STEEL
 - D. STRUCTURAL WELDING
 - E. PILING

THE CITY OF BELLINGHAM SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PERFORM ALL SPECIAL INSPECTIONS AS REQUIRED BY THE BUILDING PERMIT. THE CONTRACTOR SHALL COOPERATE WITH THE CITY'S INSPECTOR AND PROVIDE ACCESS TO THE WORK TO BE INSPECTED. AT THE DISCRETION OF THE CITY, THE CONTRACTOR MAY BE REQUESTED TO COORDINATE DIRECTLY WITH THE INSPECTOR TO SCHEDULE TIMING FOR THE REQUIRED INSPECTIONS.

CONSTRUCTION LOADS

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CALCULATIONS AND DETERMINATIONS OF STRUCTURAL CAPACITY OF EXIST AND NEW STRUCTURES FOR THE ANTICIPATED LOADS OF THE CONSTRUCTION EQUIPMENT TO BE USED, AND THE STABILITY OF THE STRUCTURES UNTIL THE PROJECT IS COMPLETE.

PERMITS

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ENVIRONMENTAL PERMITS OBTAINED BY THE CITY OF BELLINGHAM FOR THIS PROJECT, INCLUDED IN THE SPECIFICATIONS. THE CITY OF BELLINGHAM HAS ALSO OBTAINED A GENERAL BUILDING PERMIT FOR THIS PROJECT. ALL OTHER PERMITS REQUIRED FOR THE WORK SHALL BE THE CONTRACTORS RESPONSIBILITY.

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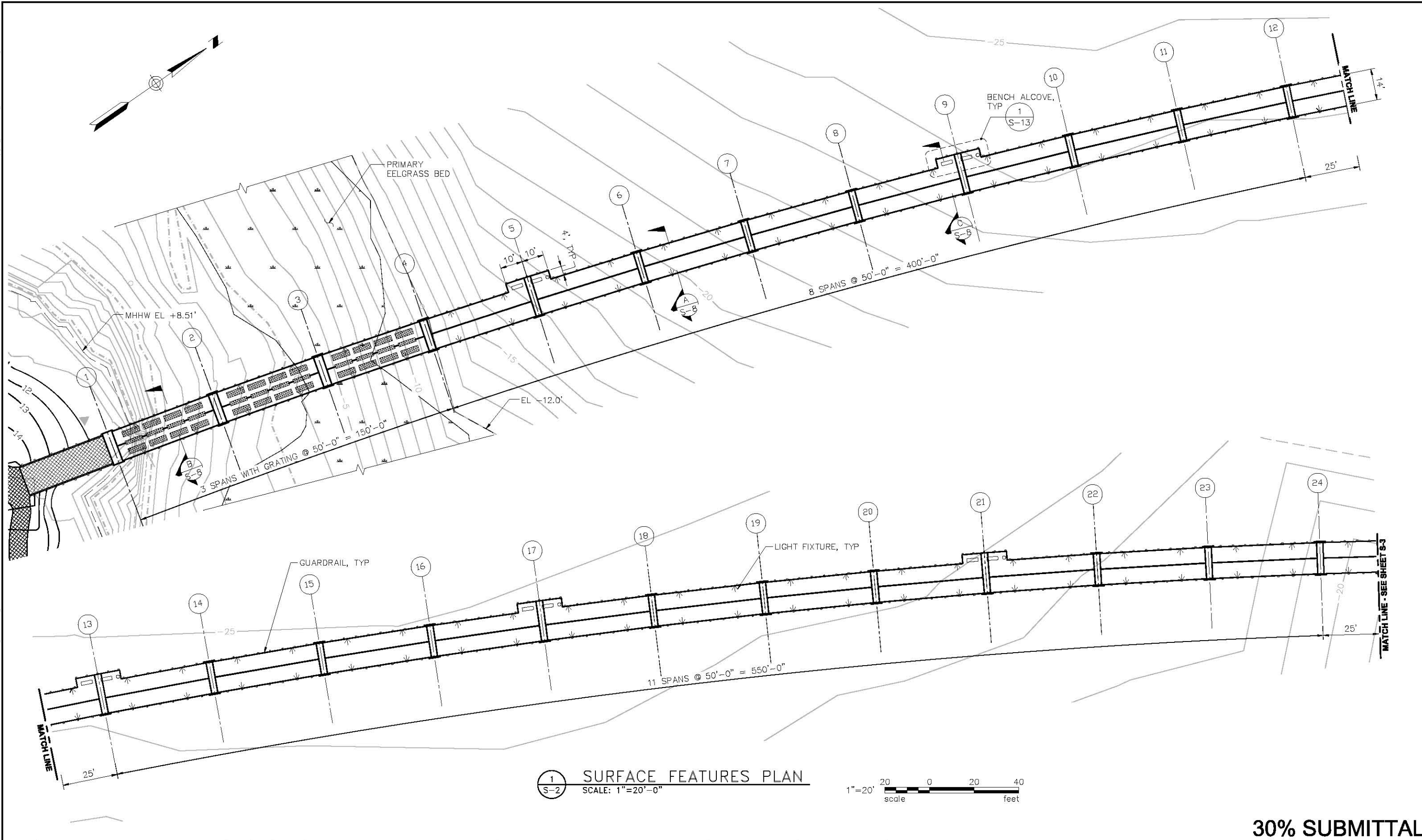
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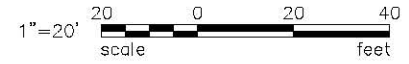
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DEPT OF PARKS AND RECREATION

GENERAL NOTES

DRAWING NO. S-1
 PROJECT NO. SAWAT-10-028
 DATE: 3/12/10
 SHEET NO. 7 OF 29



1 SURFACE FEATURES PLAN
S-2 SCALE: 1"=20'-0"



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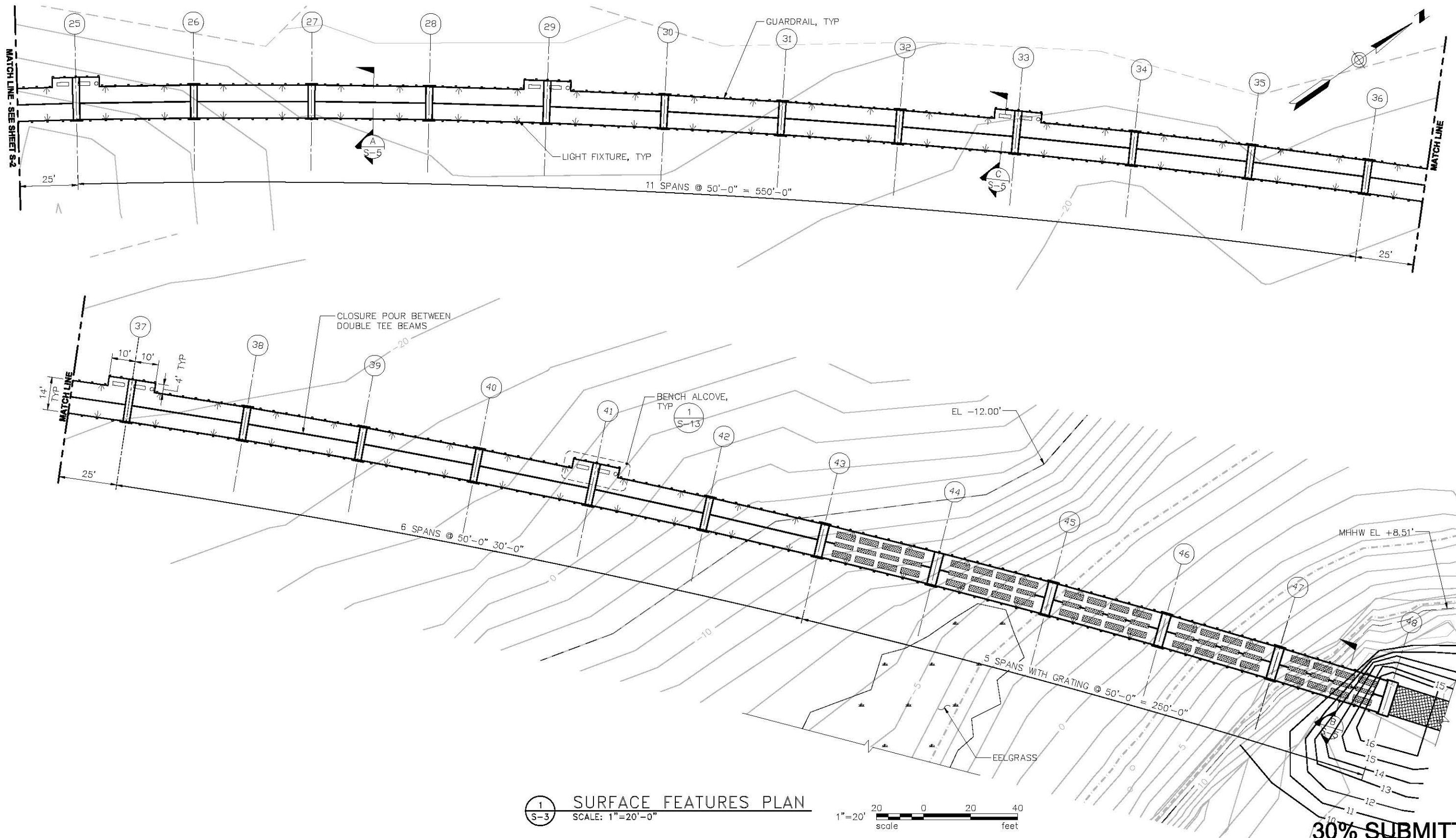
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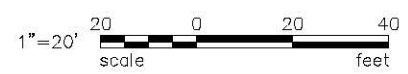
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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
SURFACE FEATURES PLAN
1 OF 2

DRAWING NO. **S-2**
PROJECT NO. **SAWAT-10-028**
DATE: **3/12/10**
SHEET NO. **8 OF 29**



1 SURFACE FEATURES PLAN
S-3 SCALE: 1"=20'-0"



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 BELLINGHAM PARKS AND RECREATION DEPARTMENT
 3424 MERIDIAN STREET
 BELLINGHAM, WASHINGTON 98225
 360-676-6955
 FAX 360-674-6367

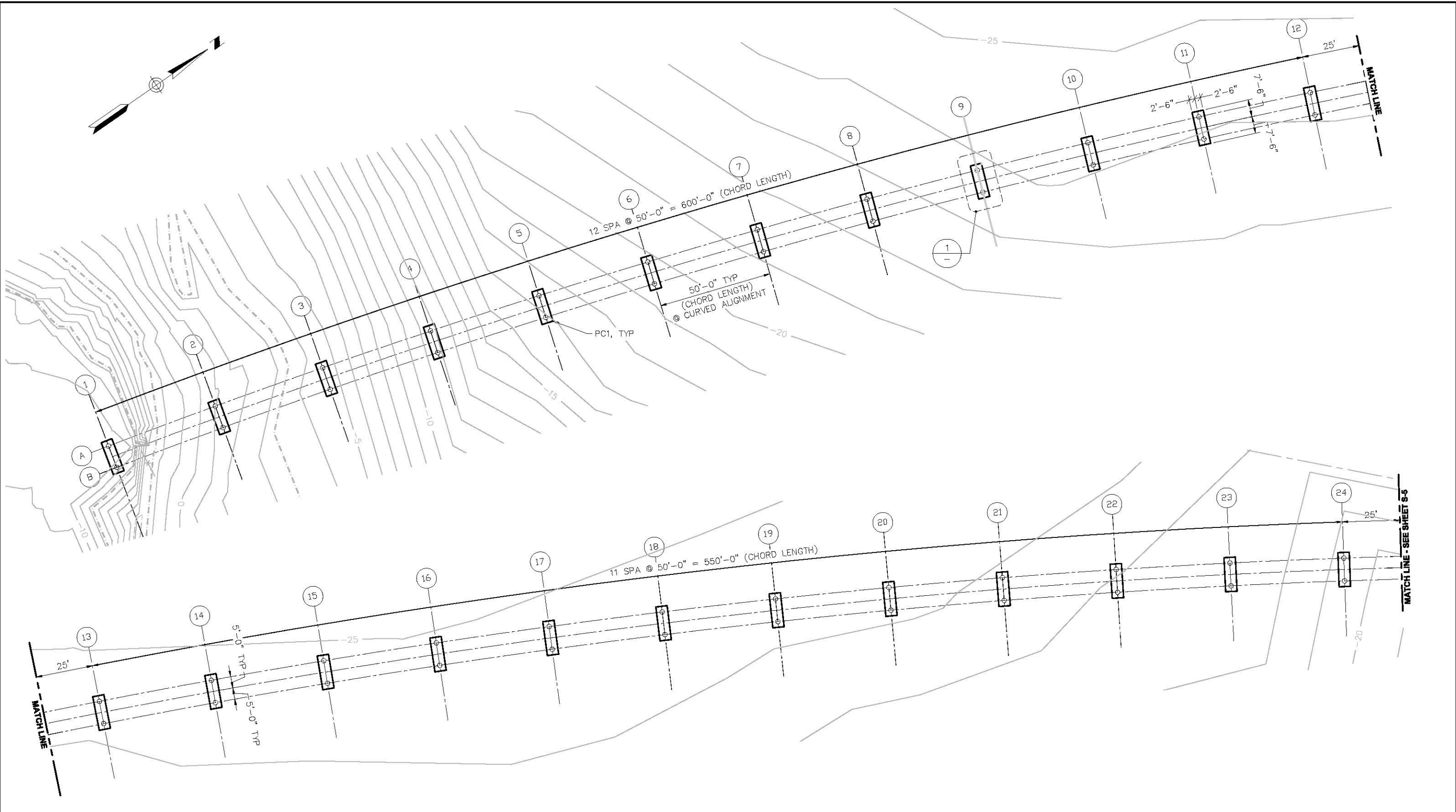
DRAWN BY **PIL**
 DESIGN BY **EAS**
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 PROJ MGR **LAK**

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
SURFACE FEATURES PLAN
2 OF 2

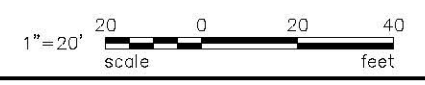
DRAWING NO. **S-3**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/12/10**
 SHEET NO. **9 OF 29**

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1
S-2 PILING AND PRECAST PILE CAP PLAN
SCALE: 1"=20'-0"



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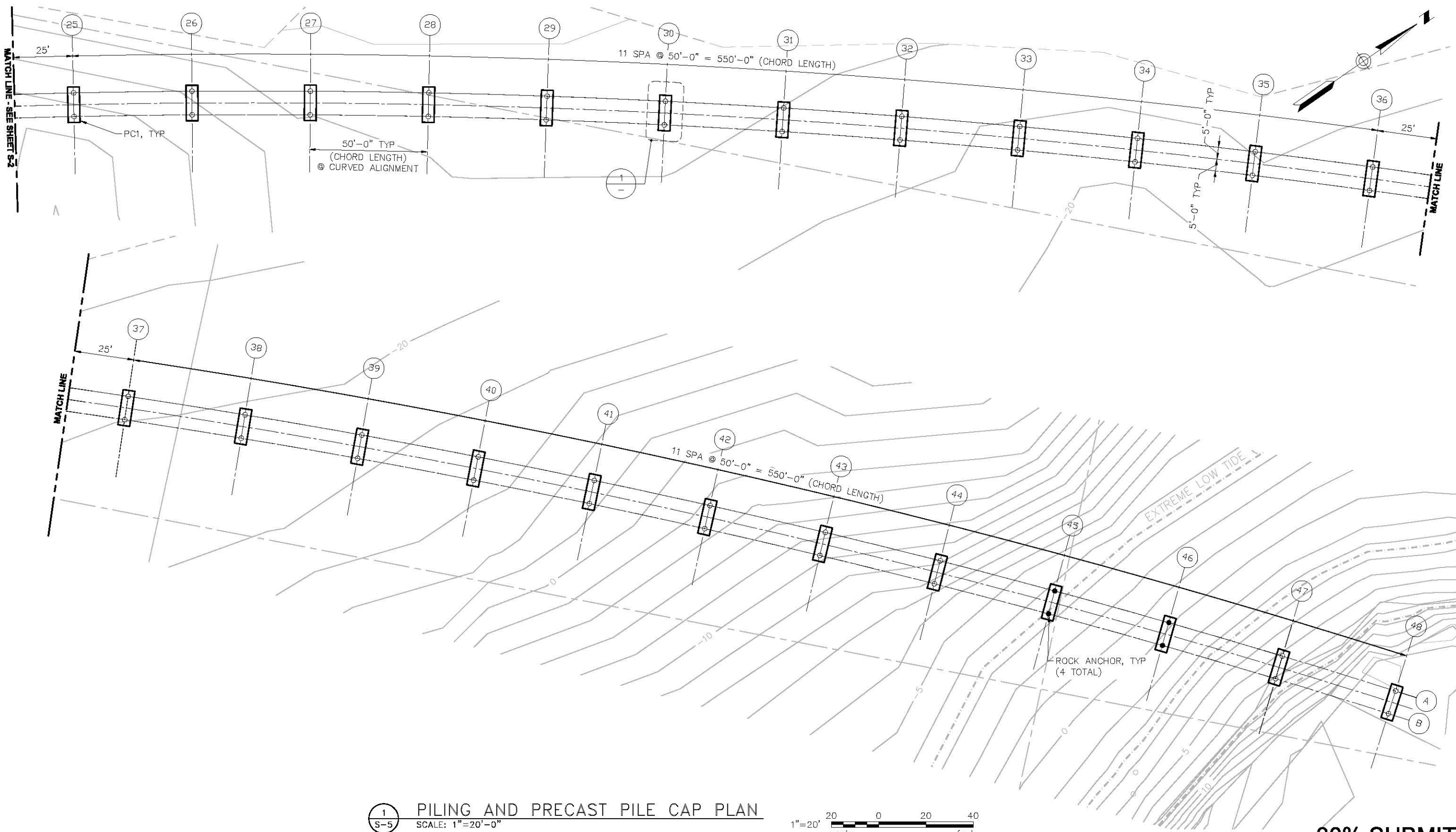
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 DESIGN BY **EAS**
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 PROJ MGR **LAK**

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
PILING AND PRECAST PILE CAP PLAN
 1 OF 2

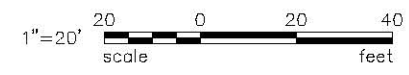
DRAWING NO. **S-4**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/12/10**
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1 PILING AND PRECAST PILE CAP PLAN
 S-5 SCALE: 1"=20'-0"



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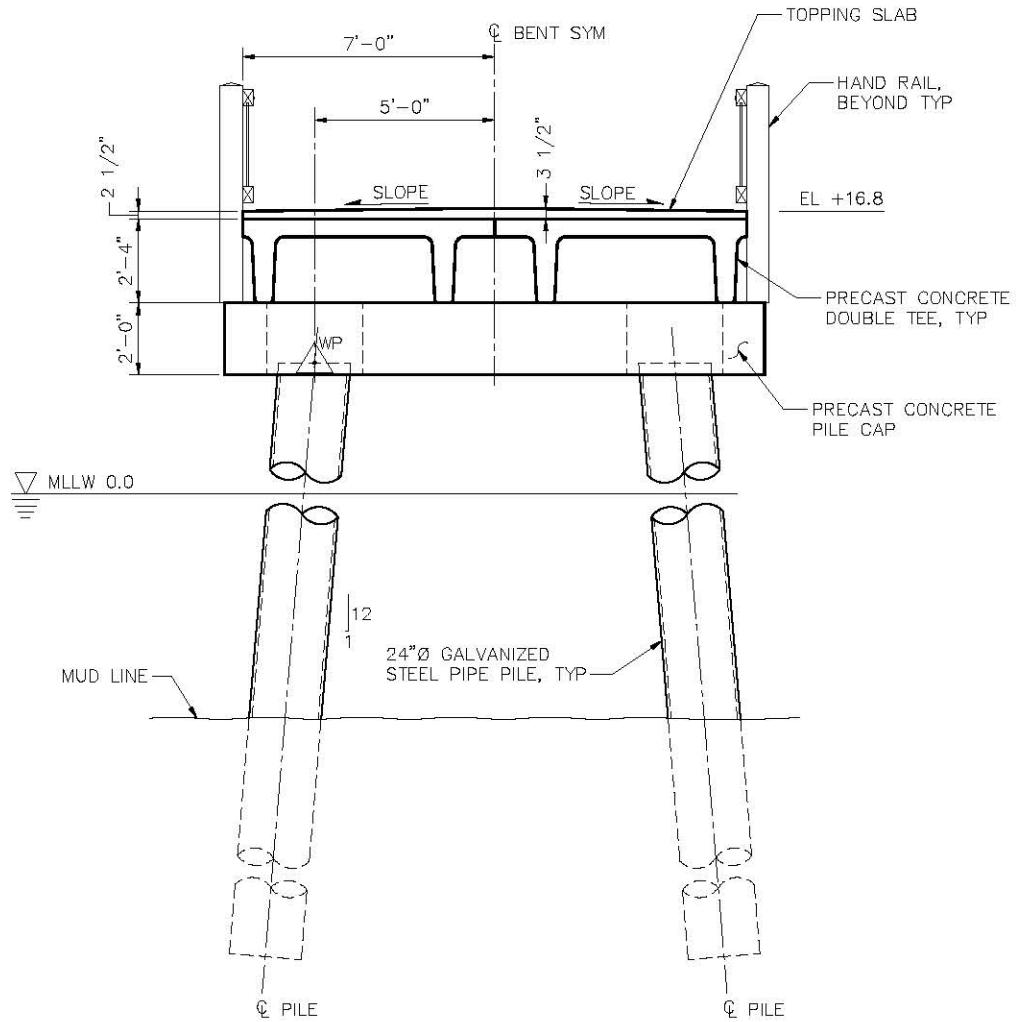
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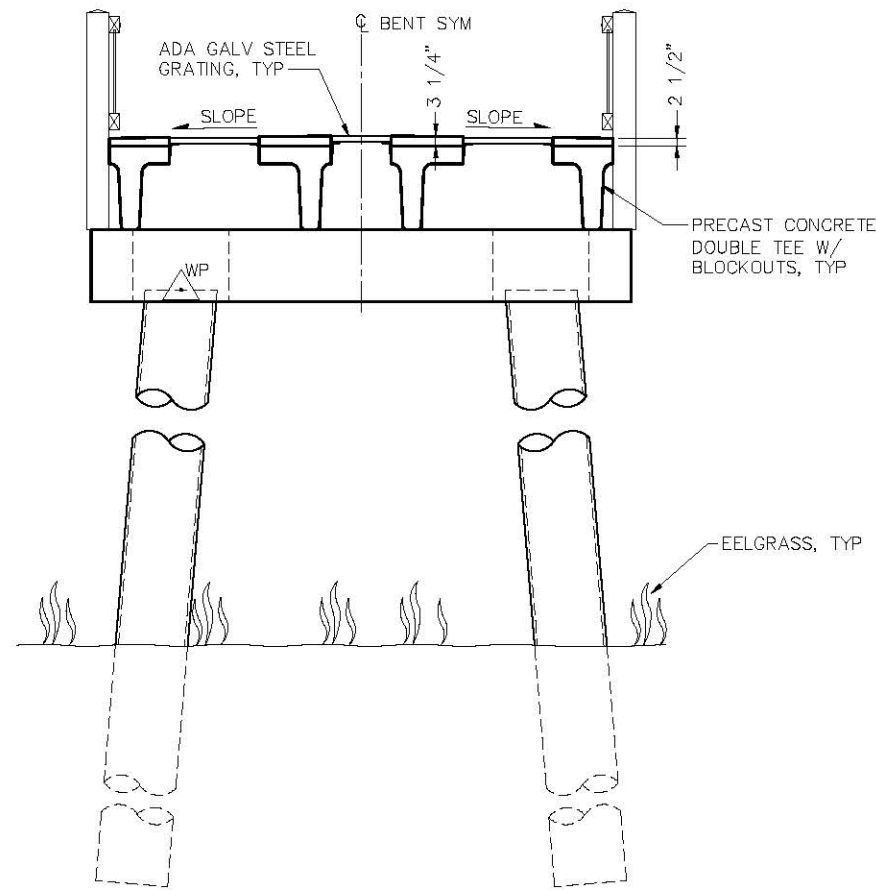
DRAWN BY PIL
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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
PILING AND PRECAST PILE CAP PLAN
2 OF 2

DRAWING NO. **S-5**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/12/10**
 SHEET NO. **11 OF 29**

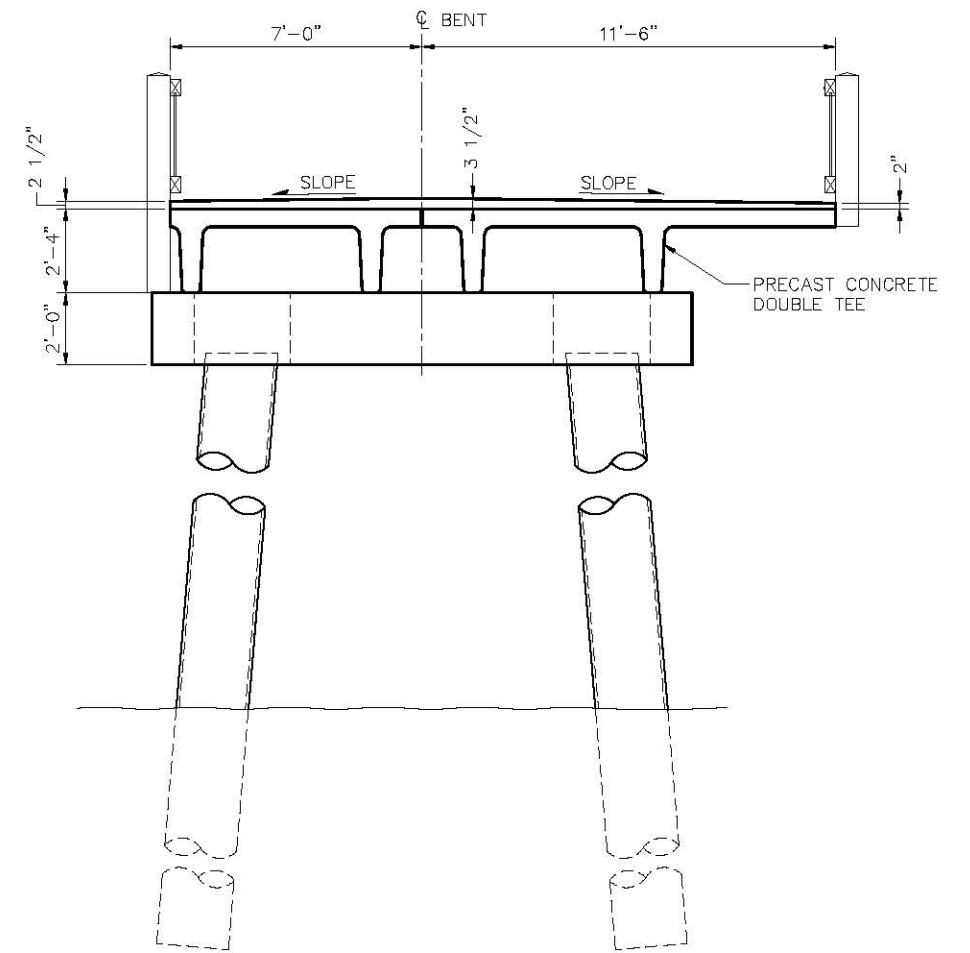


A
SECTION - TYPICAL BENT
SCALE: 3/8"=1'-0"



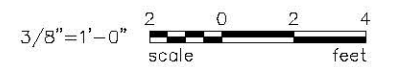
NOTE: FOR TYPICAL DIMENSIONS AND CALLOUTS, SEE **A**
S-8

B
SECTION - BENT WITH GRATING
SCALE:



NOTE: FOR TYPICAL DIMENSIONS AND CALLOUTS, SEE **A**
S-8

C
SECTION - BENT WITH ALCOVE
SCALE: 3/8"=1'-0"



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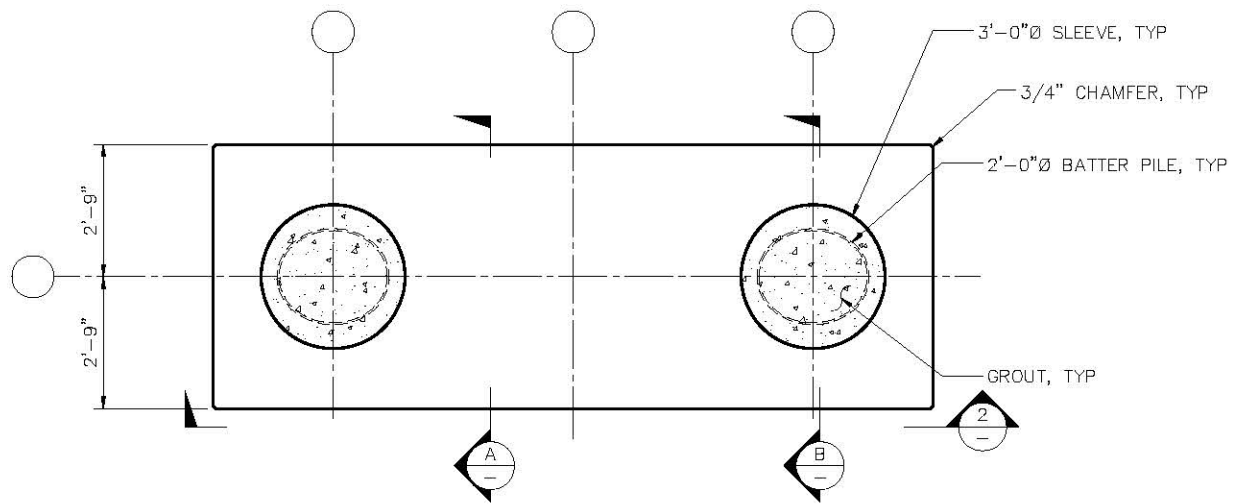
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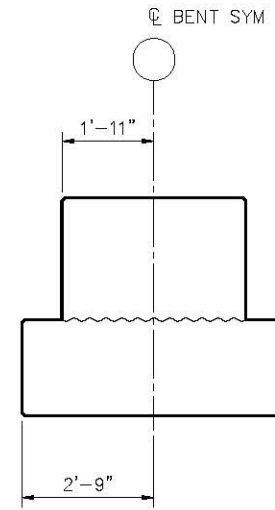
CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION

PIER CROSS SECTIONS

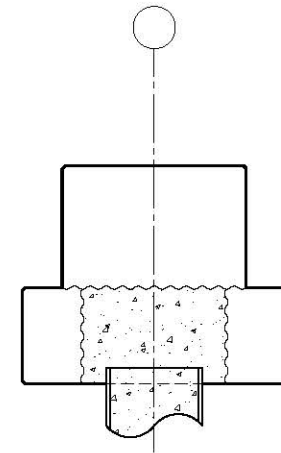
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PROJECT NO. **SAWAT-10-028**
DATE: **3/12/10**
SHEET NO. **14 OF 29**



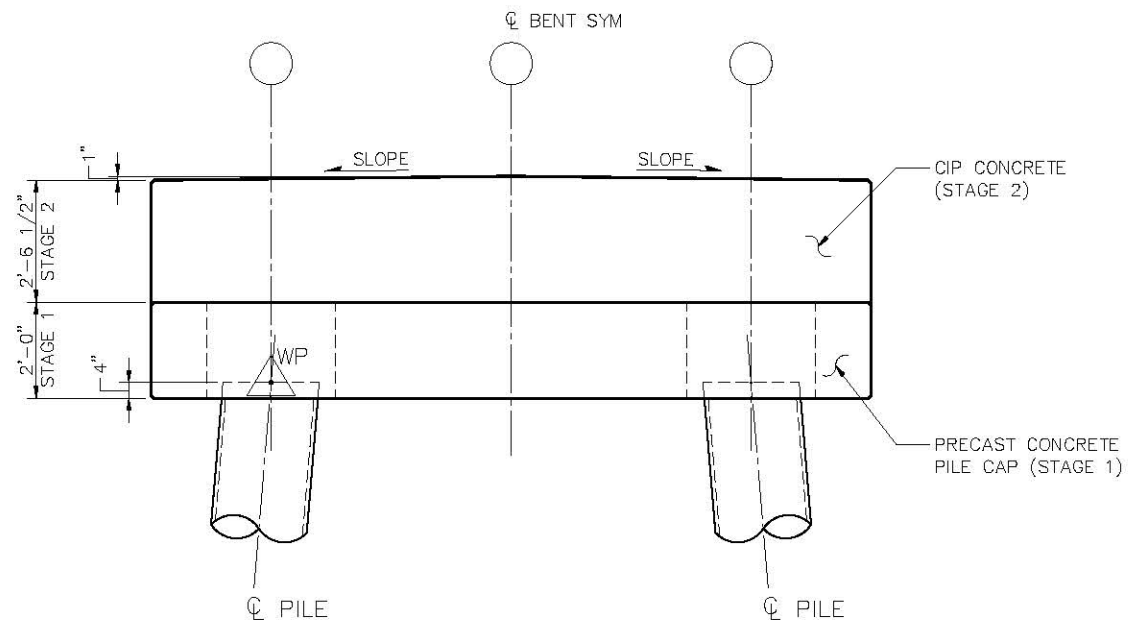
1 PLAN - TYPICAL PILE CAP
SCALE: 1/2"=1'-0"



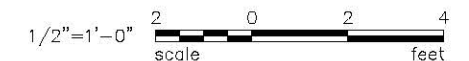
A SECTION - TYPICAL PILE CAP
SCALE: 1/2"=1'-0"



B SECTION - AT PILE
SCALE: 1/2"=1'-0"



2 ELEVATION - TYPICAL PILE CAP
SCALE: 1/2"=1'-0"



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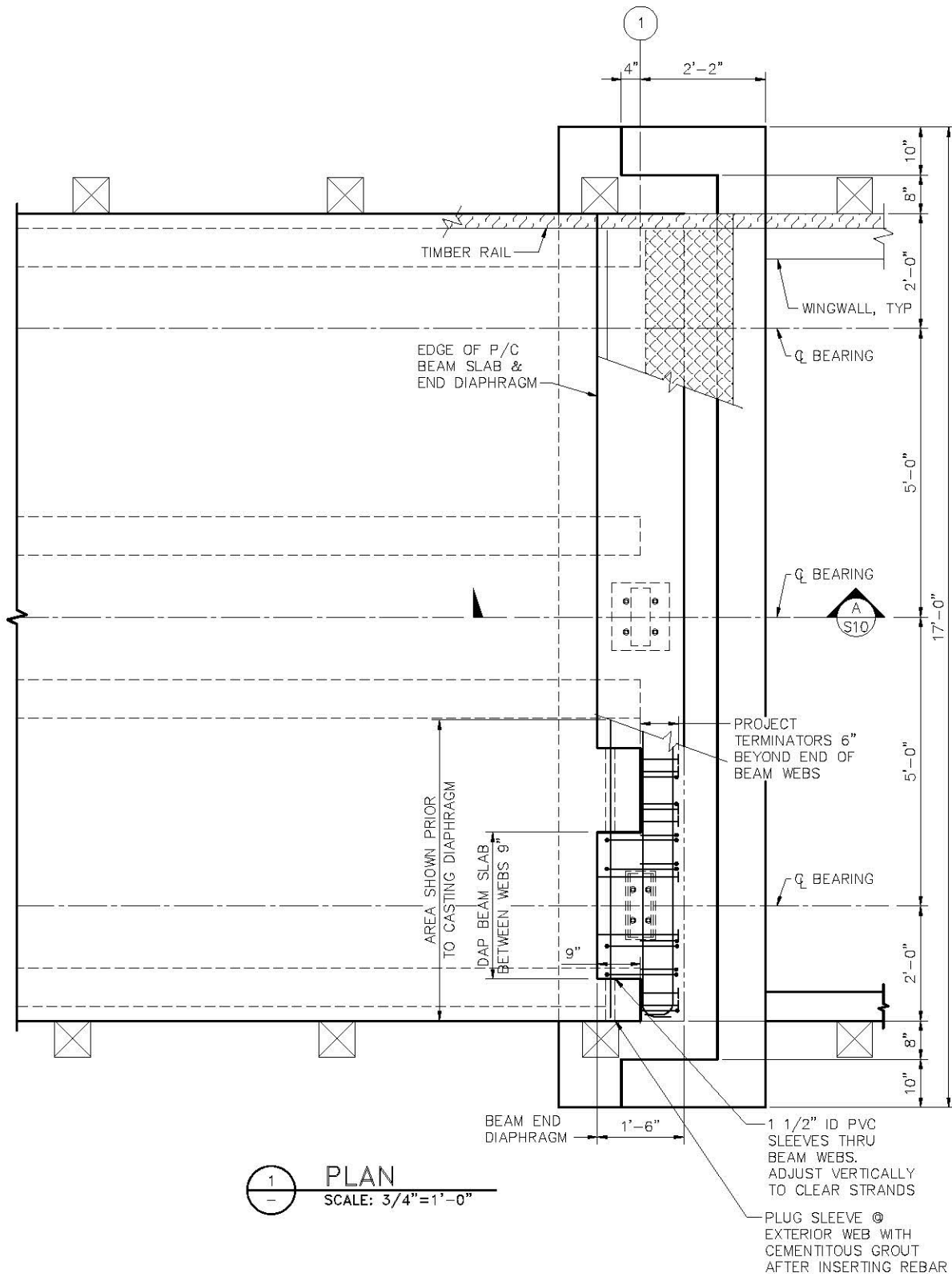
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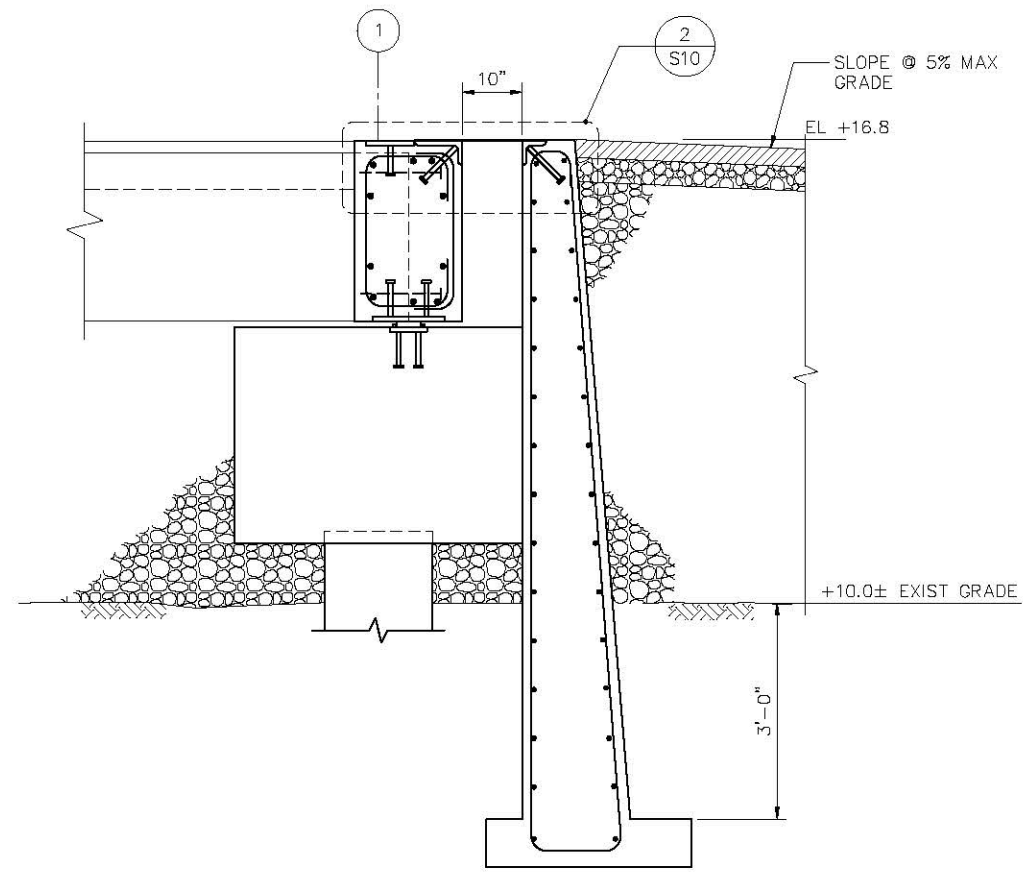
CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION

PILE CAP DETAILS

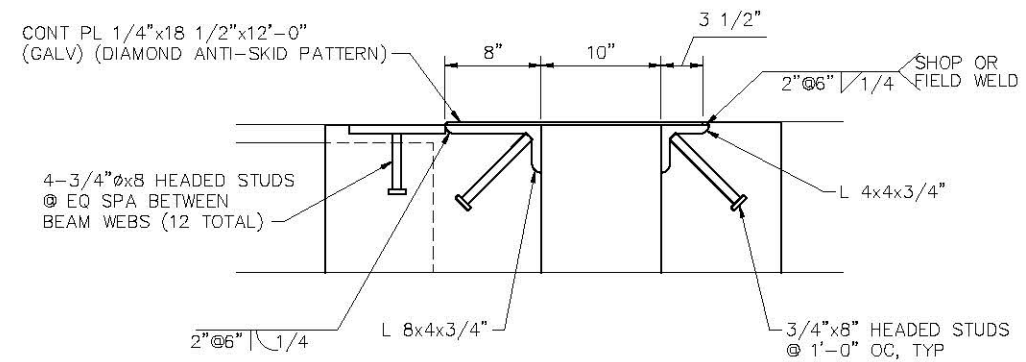
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PROJECT NO. **SAWAT-10-028**
DATE: **3/12/10**
SHEET NO. **15 OF 29**



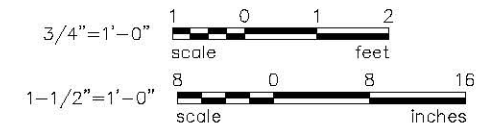
1 PLAN
SCALE: 3/4"=1'-0"



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



2 SECTION - EXPANSION JOINT
SCALE: 1 1/2"=1'-0"



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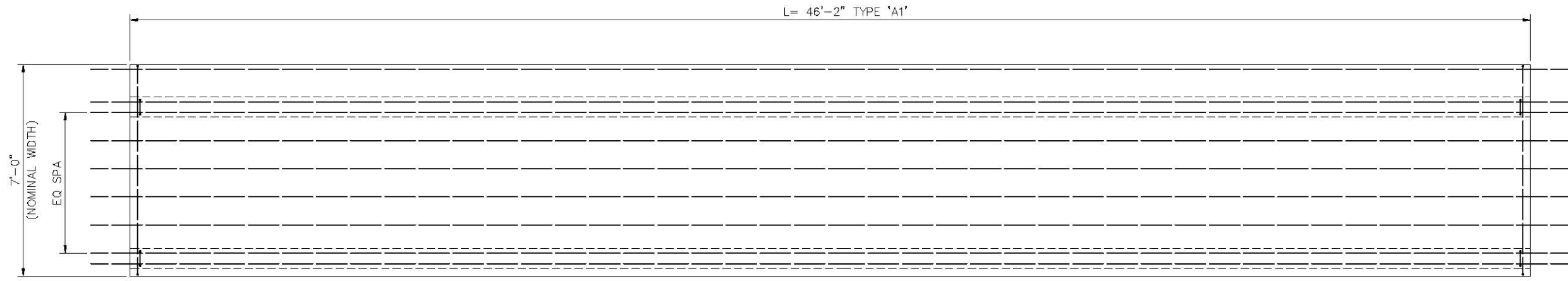
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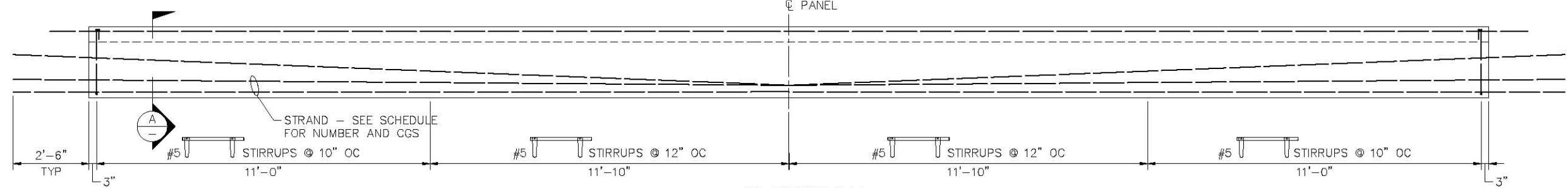
CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
ABUTMENT DETAILS

DRAWING NO. **S-10**
PROJECT NO. **SAWAT-10-028**
DATE: **3/12/10**
SHEET NO. **16 OF 29**

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PLAN



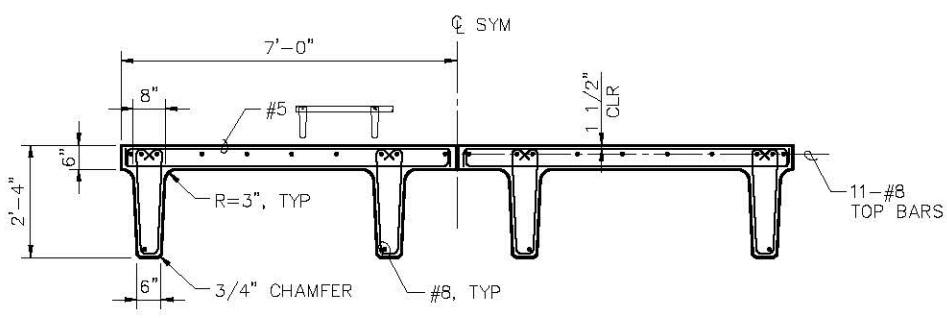
ELEVATION

1 TYPE "A1" DOUBLE TEE
S11 SCALE: 1/2"=1'-0"

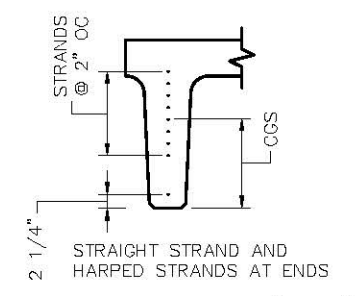
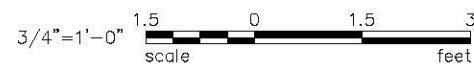
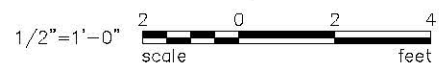
PRECAST DOUBLE TEE SCHEDULE
PANELS 'A1' THRU 'XX'

TYPE	WIDTH (NOMINAL)	REF. PLAN	TRANSVERSE SECTION	CONCRETE STRENGTH	TOP BARS	NO STRAND STRAIGHT	CGS @ MIDSPAN	NO STRANDS HARRED	CGS @ ENDS
A1	7'-0"	1/S11	A/S12	7000 PSI	11-#8	2	2.9"	16	15.6"
B1	7'-0"	1/S12	B/S12	7000 PSI	NP	2		22	

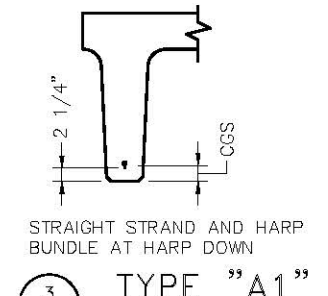
SCHEDULE - PRECAST DOUBLE TEES
SCALE: 3/4"=1'-0"



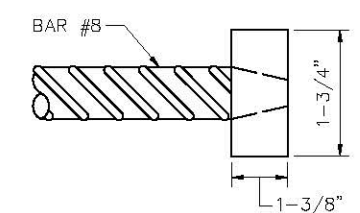
A SECTION - TYPE "A1" PANEL
S11 SCALE: 1/2"=1'-0"



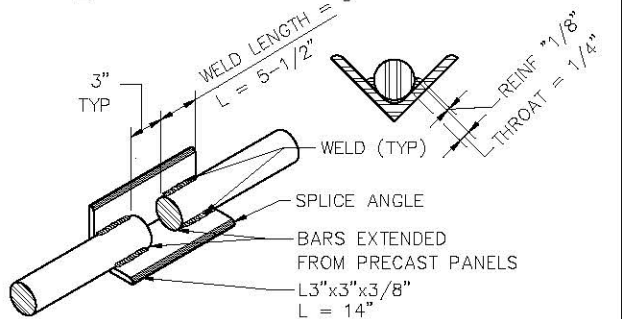
2 TYPE "A1"
S10 SCALE: 3/4"=1'-0"



3 TYPE "A1"
S10 SCALE: 3/4"=1'-0"



4 LENTON TERMINATOR
S10 SCALE: NTS



5 DETAIL - BAR SPLICE
S10 SCALE: NTS

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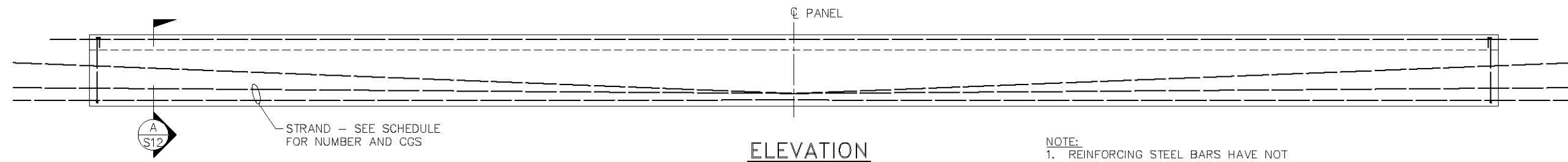
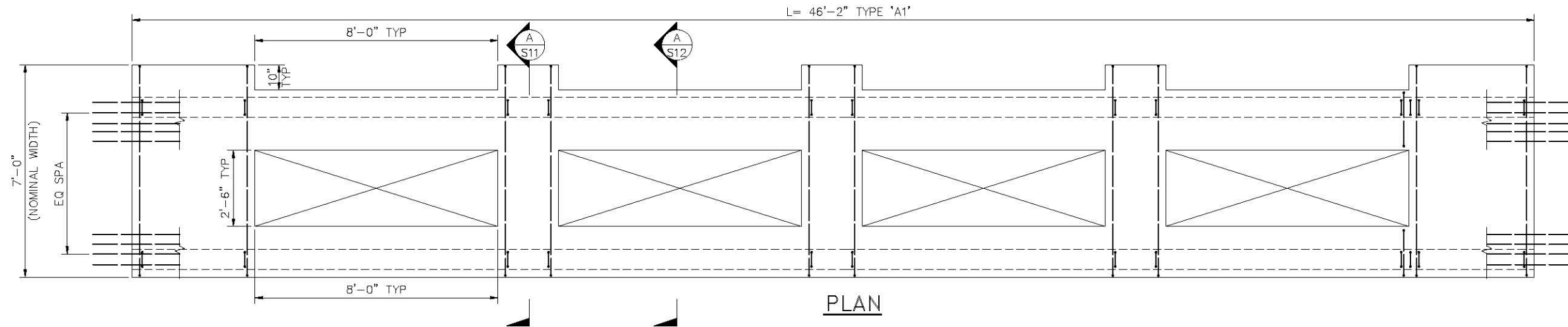
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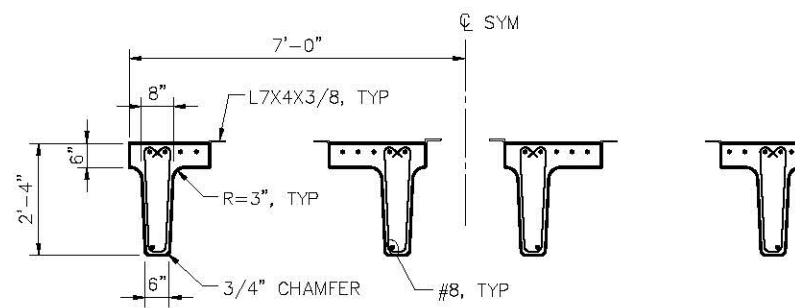
CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
DECK PANEL DETAILS AND SCHEDULE
1 OF 2

DRAWING NO. **S-11**
PROJECT NO. **SAWAT-10-028**
DATE: **3/12/10**
SHEET NO. **17 OF 29**



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

1
- TYPE "B1" PANEL
SCALE: 1/2"=1'-0"



A
S12 SECTION - TYPE "B1" PANEL
SCALE: 1/2"=1'-0"

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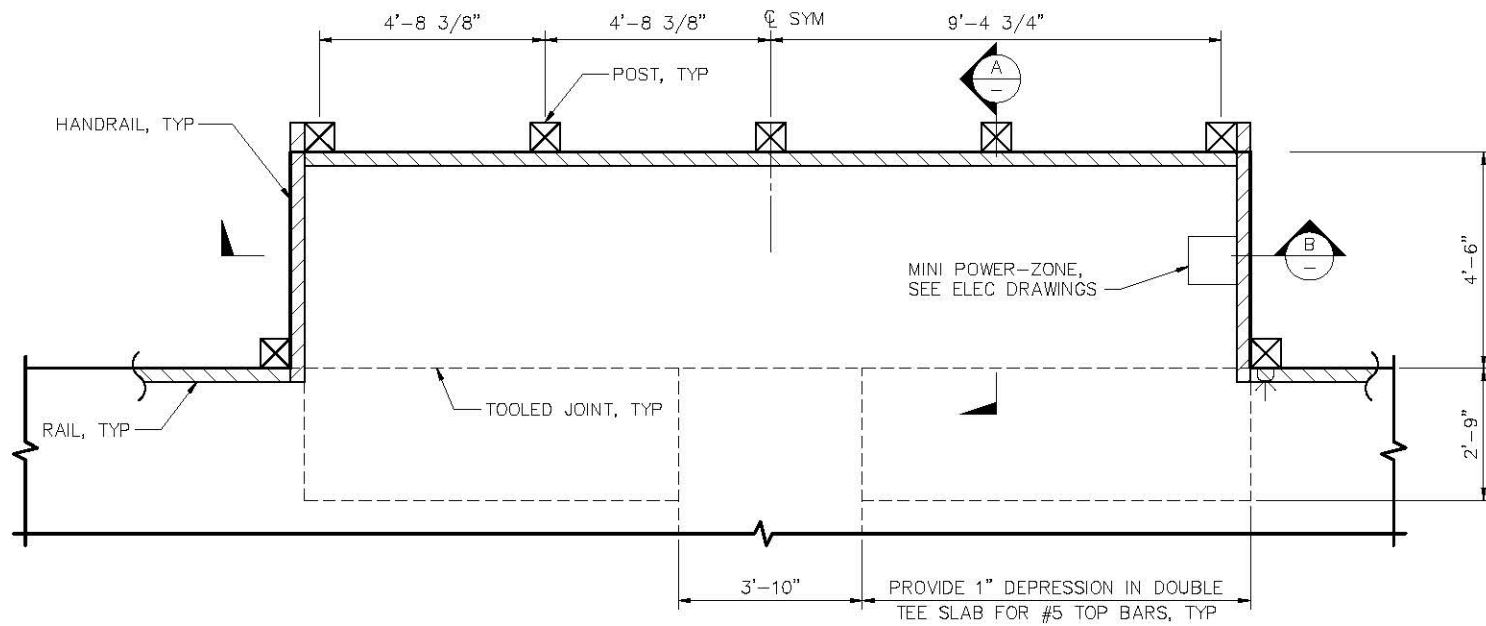


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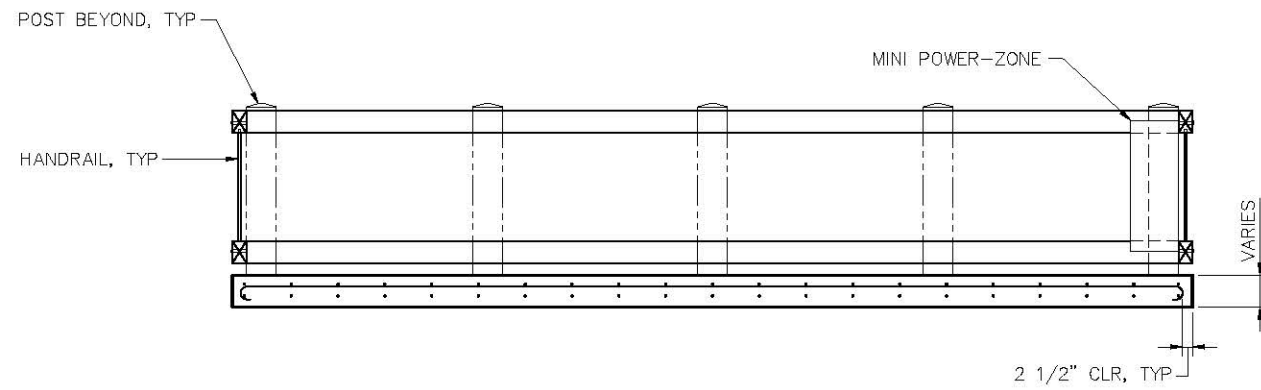
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DEPT OF PARKS AND RECREATION
DECK PANEL DETAILS AND SCHEDULE
2 OF 2

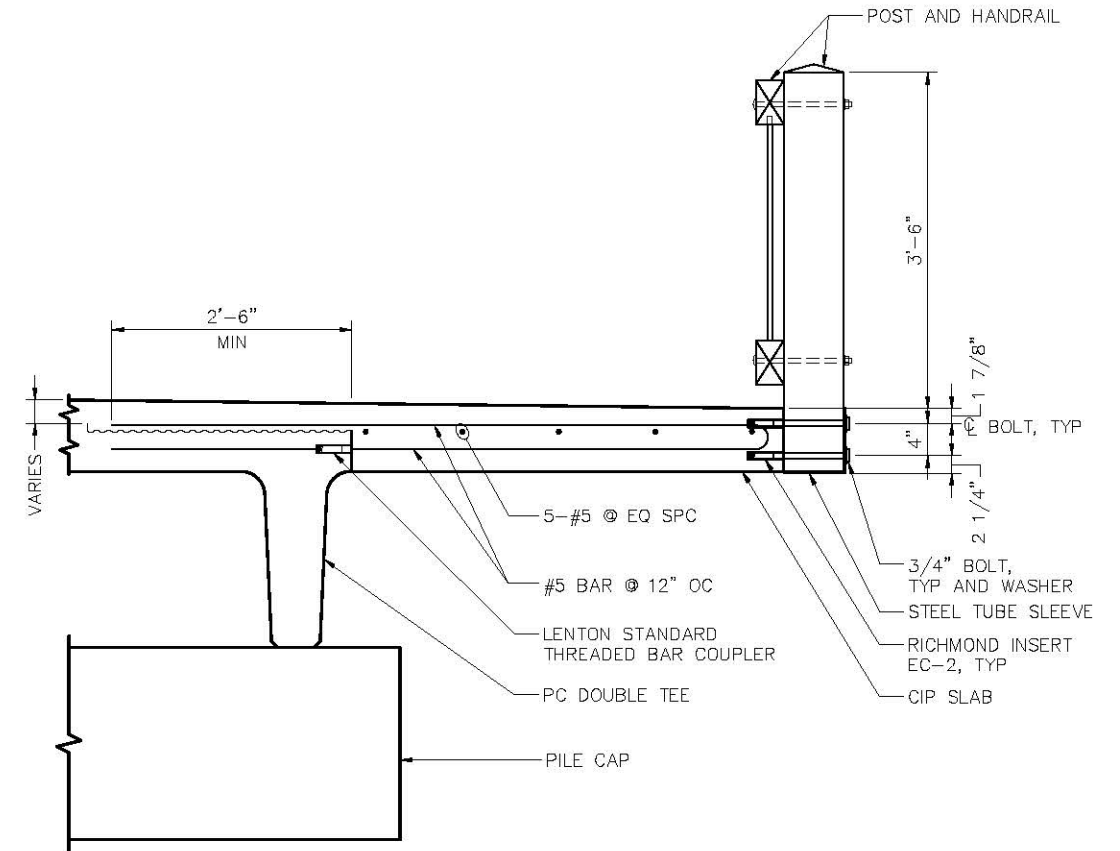
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PROJECT NO. **SAWAT-10-028**
DATE: **3/12/10**
SHEET NO. **18 OF 29**



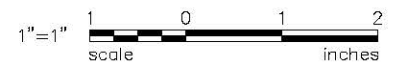
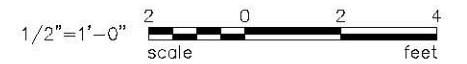
1 PLAN - BENCH ALCOVE
S13 SCALE: 1/2"=1'-0"



B SECTION - BENCH ALCOVE
S13 SCALE: 1/2"=1'-0"



A SECTION - BENCH ALCOVE
S13 SCALE: 1"=1'-0"



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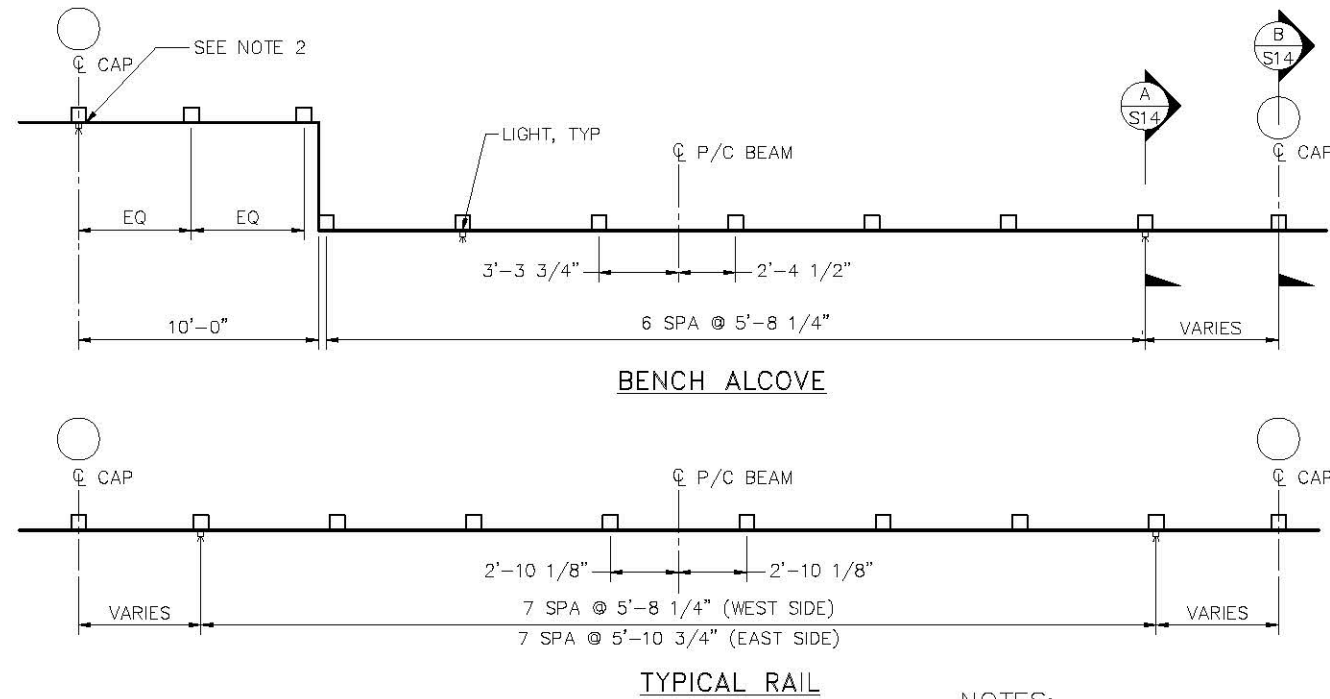


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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
BENCH ALCOVE DETAILS

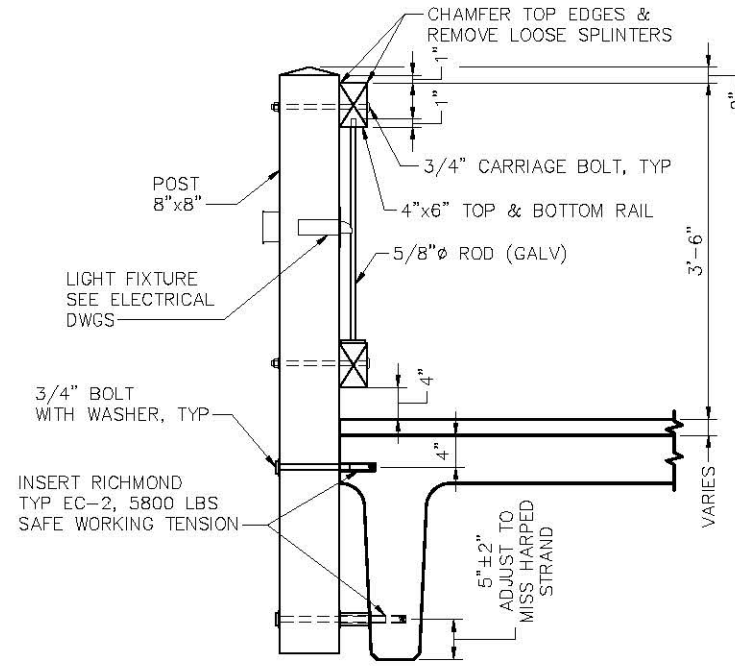
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PROJECT NO. **SAWAT-10-028**
DATE: **3/12/10**
SHEET NO. **19 OF 29**



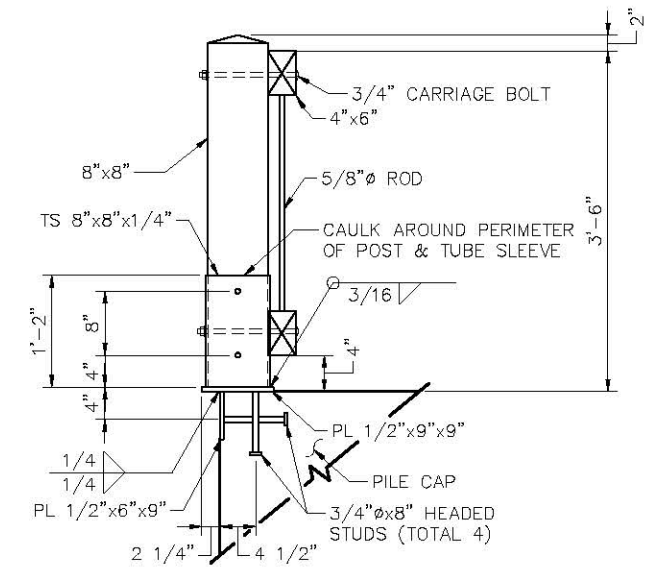
NOTES:

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

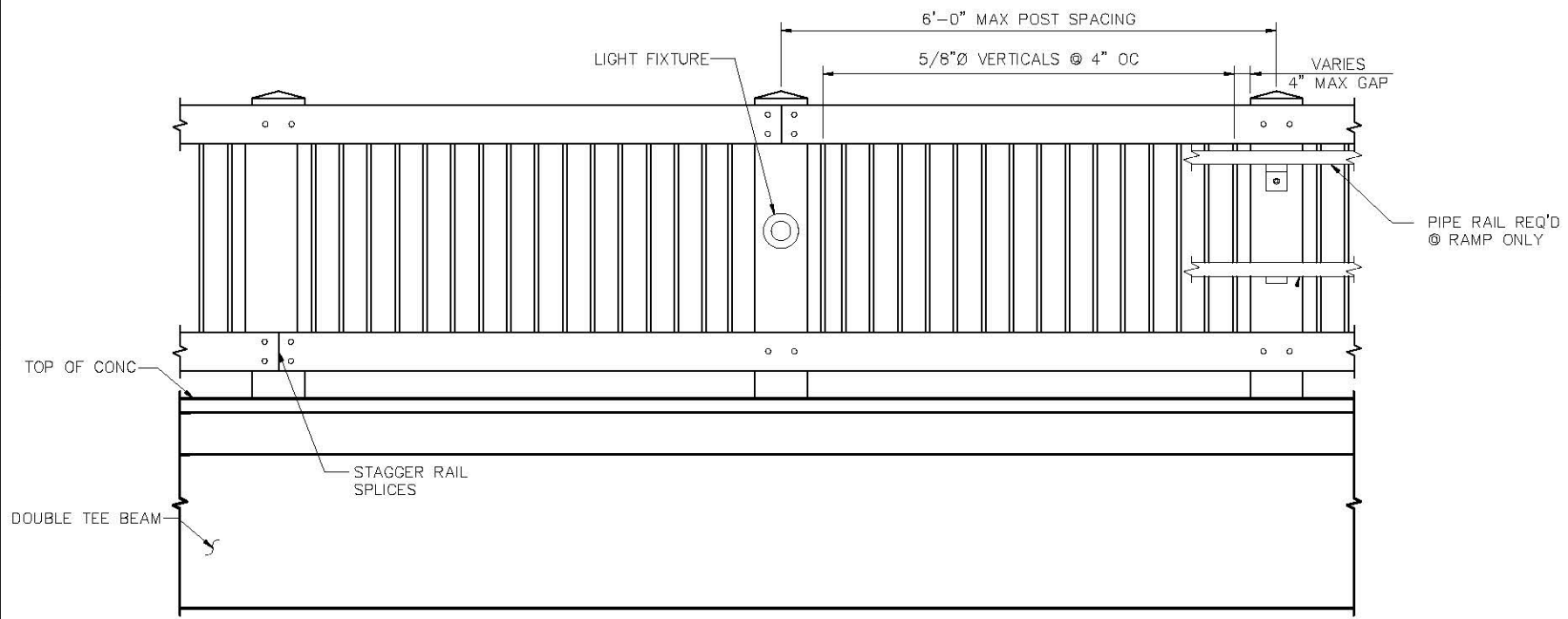
1 PLAN - TYP POST SPACING
 SCALE: 1/4"=1'-0"



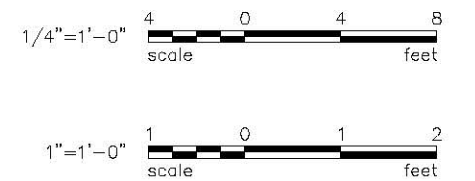
A SECTION - HANDRAIL
 SCALE: 1"=1'-0"



B DETAIL - POST @ PILE CAP
 SCALE: 1"=1'-0"



2 ELEVATION - HANDRAIL
 SCALE: 1"=1'-0"



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 3424 MERIDIAN STREET
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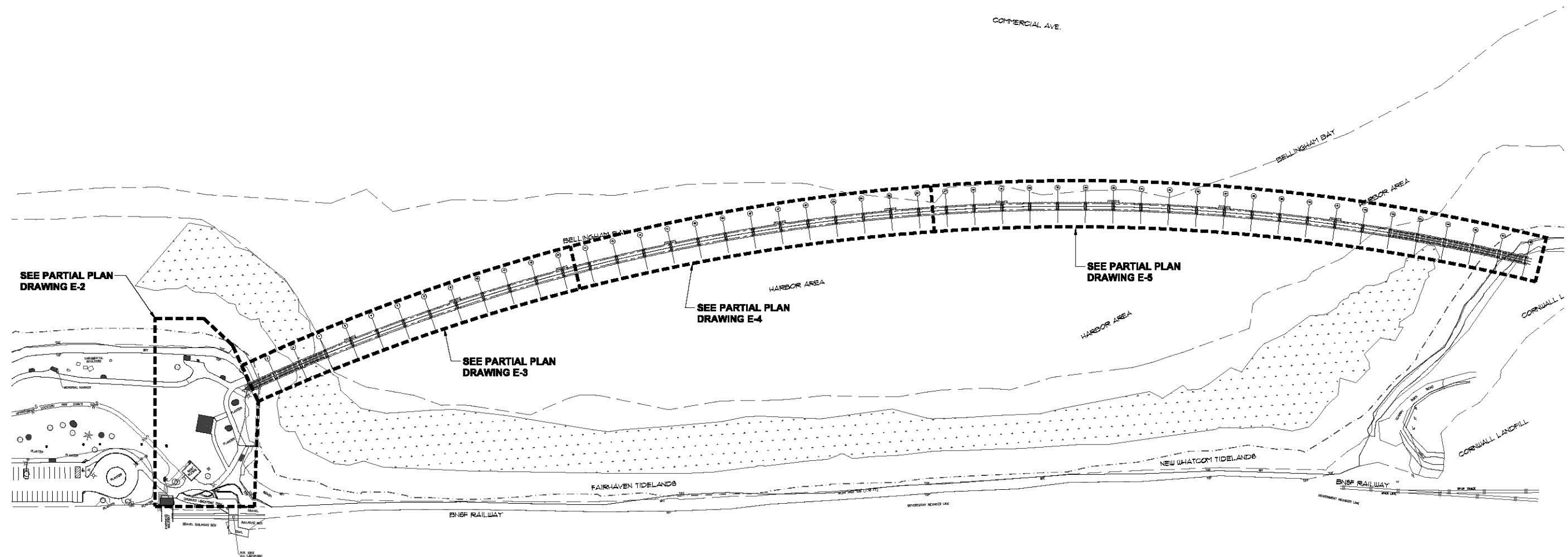
DRAWN BY **PIL**
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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
HANDRAIL DETAILS

DRAWING NO. **S-14**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/12/10**
 SHEET NO. **20 OF 29**

ELECTRICAL SYMBOLS LEGEND

- EXPOSED CONDUIT UNLESS OTHERWISE INDICATED. UG = UNDERGROUND
- ☐ POWER PANEL
- H HANDHOLE, 11 X 17, J-11a OR EQUAL
- ☐ BOARDWALK LED LIGHT FIXTURE
- ⊕ DUPLEX RECEPTACLE 20A, 125 VOLT, GFI WITH NEMA 3R "IN USE" COVER.
- (E) EXISTING
- T TRANSFORMER SIZE AND TYPE AS NOTED. PROVIDE GROUNDING AS REQUIRED BY NEC.
- ⊥ GROUND PER NEC



OVERALL ELECTRICAL SITE PLAN
SCALE: 1"=100'-0"



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CROSS ENGINEERS, INC.
 2407 North 31st Street, Suite 100
 Tacoma, WA 98407
 info@crossengineers.com

Phone: (252) 750-0118
 Fax: (252) 750-1879
 Job Number: 09-112

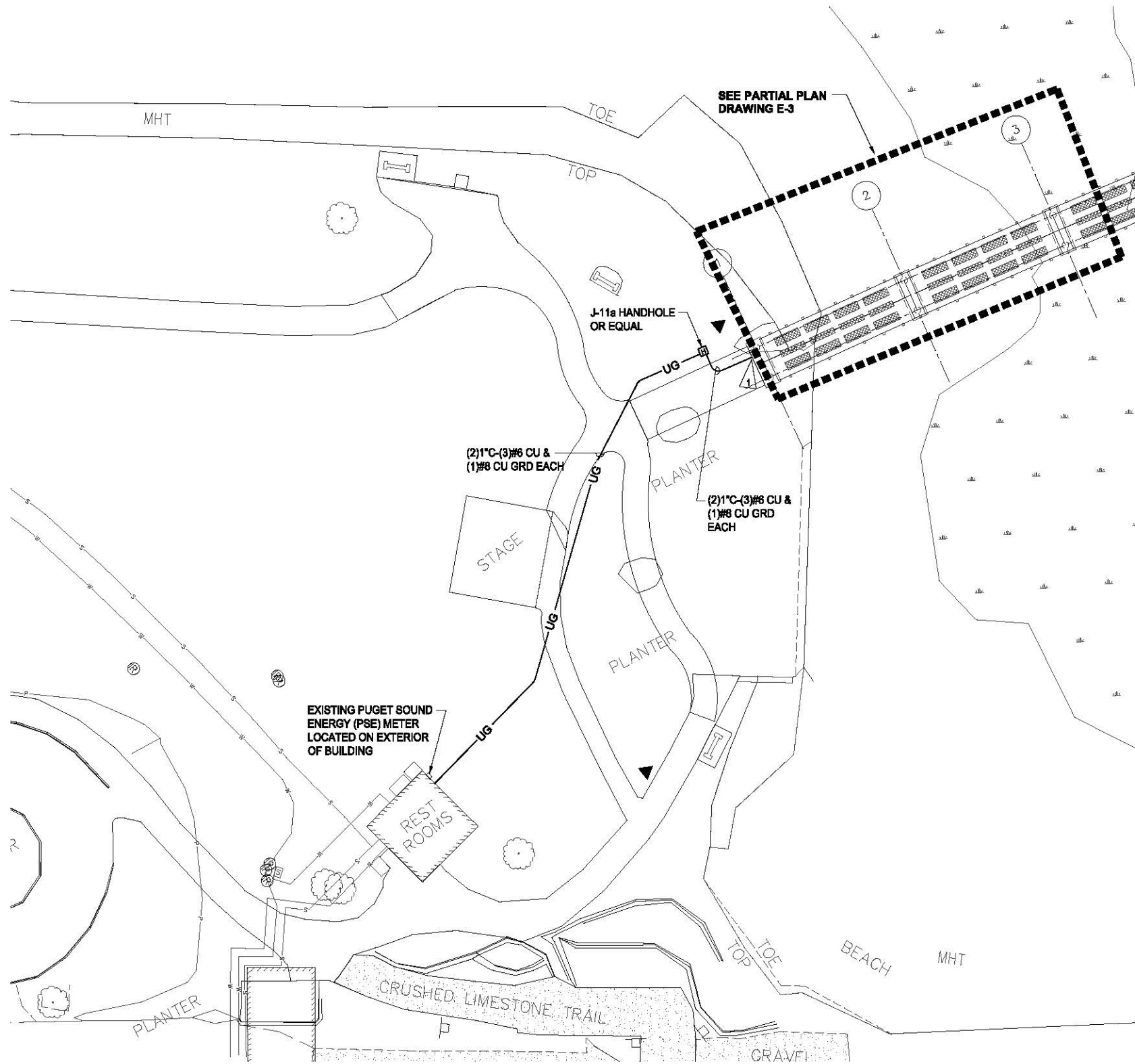
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 WASHINGTON

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DRAWN BY SJK
 DESIGN BY GLW
 CHECK BY SLH
 PROJ MGR GLW

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
OVERALL ELECTRICAL SITE PLAN

DRAWING NO. **E-1**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/11/10**
 SHEET NO. **23 OF 29**



ELECTRICAL NOTES:
 1. CONTRACTOR SHALL PROVIDE SEISMIC DEFLECTION COUPLING (TYPICAL OF 2) AT TRANSITION FROM LANDSIDE TO UNDERSIDE OF BOARDWALK.

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

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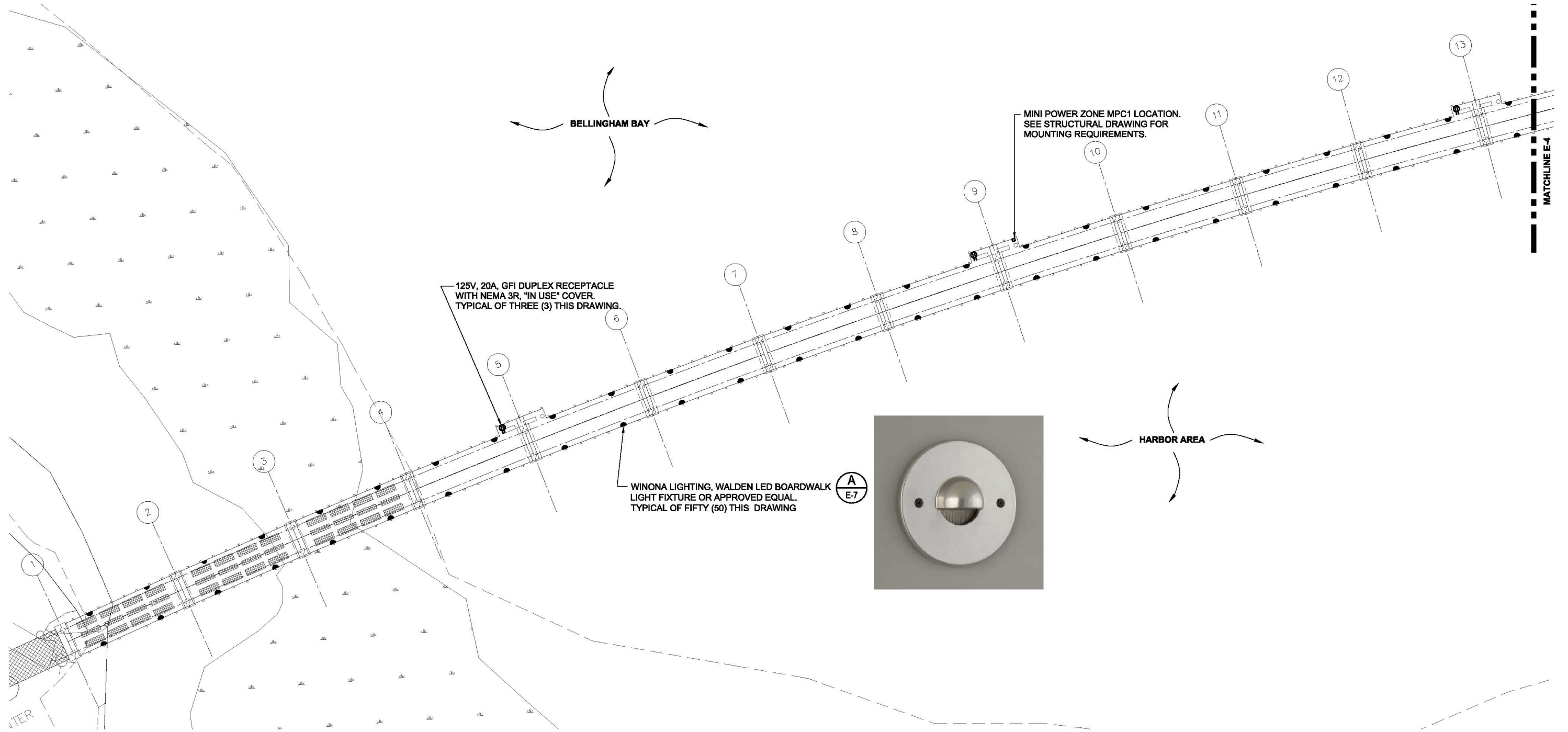
CROSS ENGINEERS, INC.
 2427 North 31st Street, Suite 100
 Tacoma, WA 98407
 Phone: (252) 758-0116
 Fax: (252) 758-1879
 Job Number: 09-112

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 BELLINGHAM PARKS AND RECREATION DEPARTMENT
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 DESIGN BY GLW
 CHECK BY SLH
 PROJ MGR GLW

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
PARTIAL ELECTRICAL SITE PLAN

DRAWING NO. E-2
 PROJECT NO. SAWAT-10-028
 DATE: 3/11/10
 SHEET NO. 24 OF 29



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



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 2407 North 31st Street, Suite 100 Phone: (253) 759-0118
 Tacoma, WA 98407 Fax: (253) 756-1678
 info@crossengineers.com Job Number: 08-112

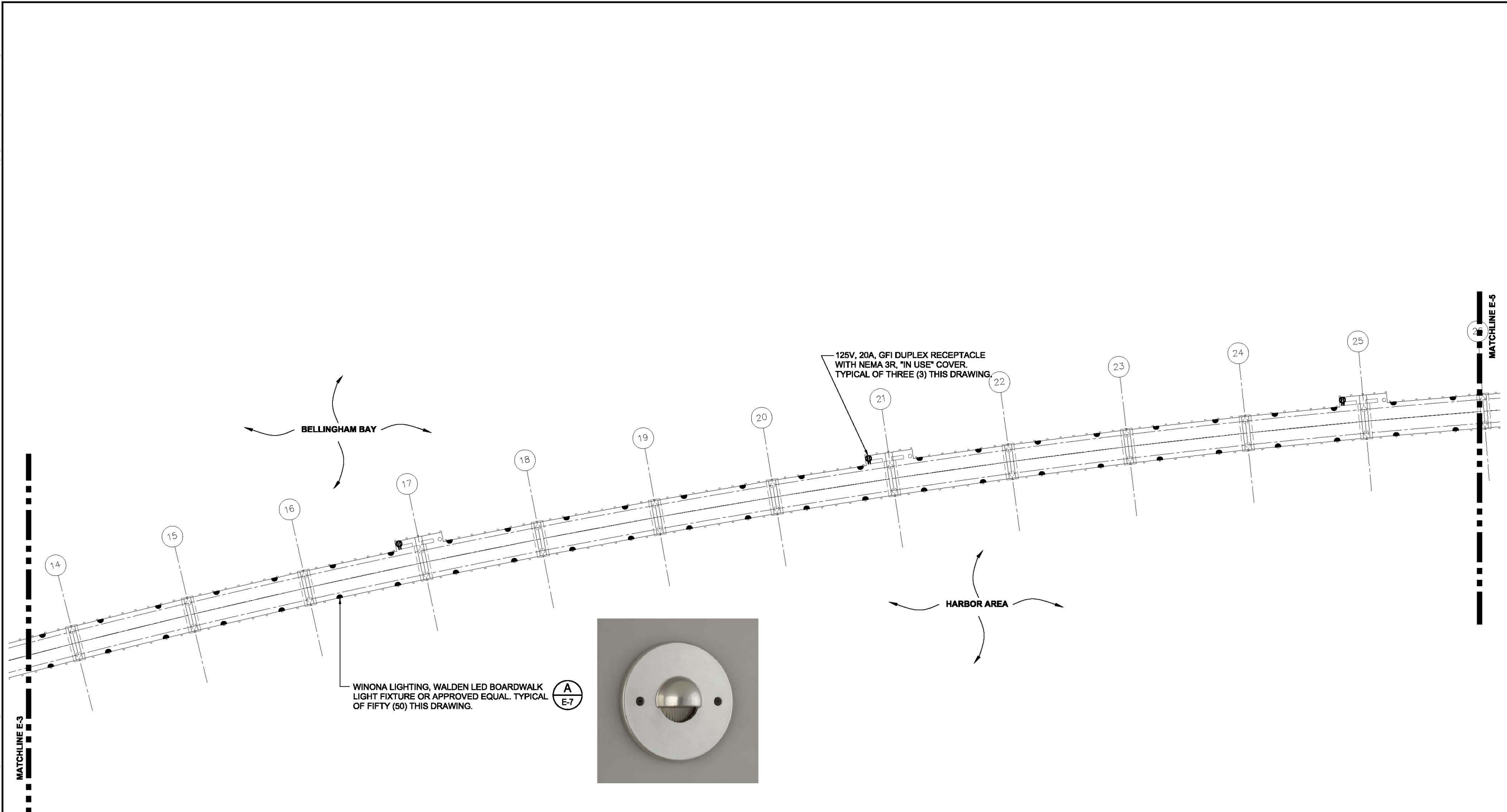


BELLINGHAM PARKS AND RECREATION DEPARTMENT
 3424 MERIDIAN STREET
 BELLINGHAM, WASHINGTON 98225
 360-676-6985
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 DESIGN BY GLW
 CHECK BY SLH
 PROJ MGR GLW

CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
PARTIAL BOARDWALK ELECTRICAL PLAN

DRAWING NO. **E-3**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/11/10**
 SHEET NO. **25 OF 29**



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



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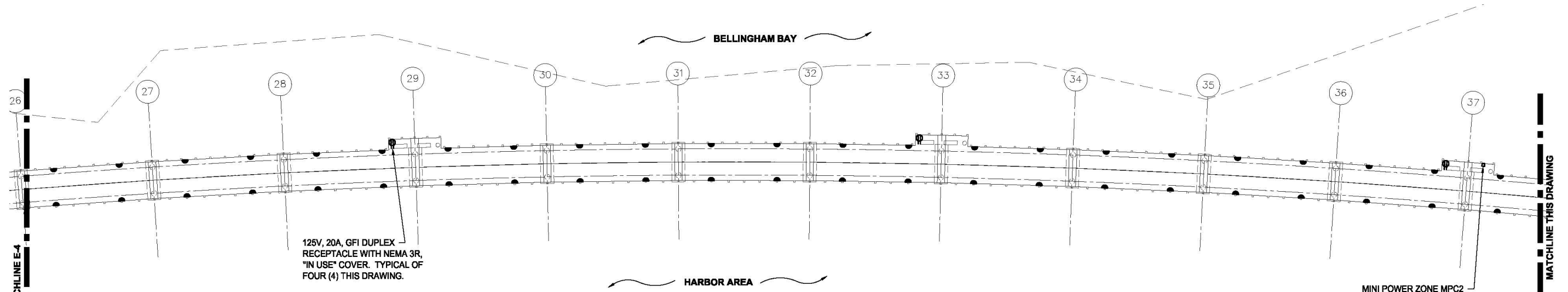
CROSS ENGINEERS, INC.
 2407 North 51st Street, Suite 100 Phone: (206) 799-0118
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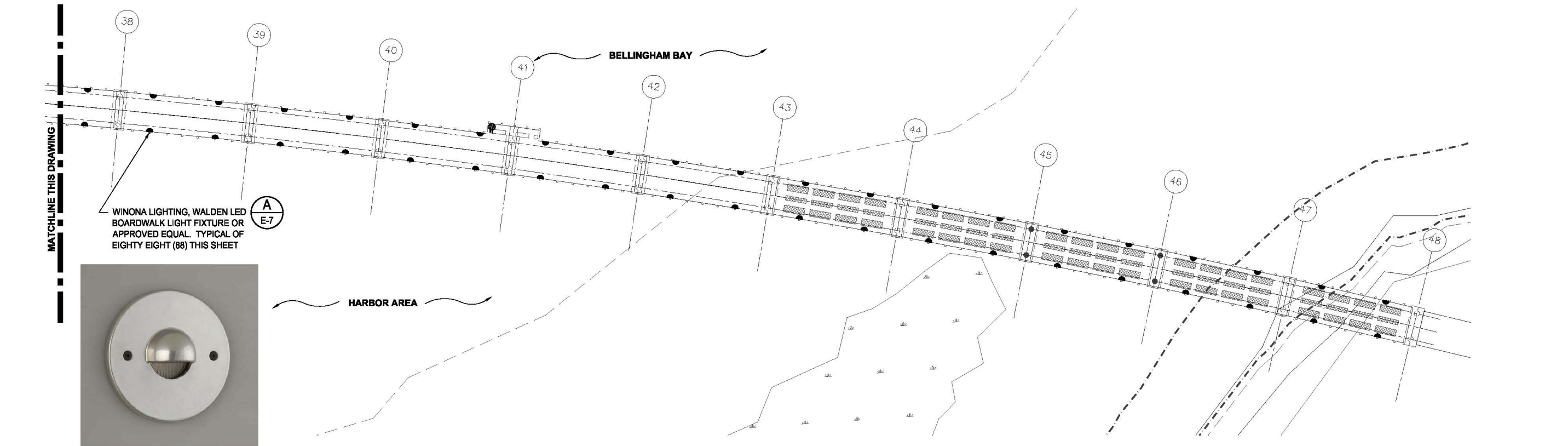
CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
PARTIAL BOARDWALK ELECTRICAL PLAN

DRAWING NO. **E-4**
 PROJECT NO. **SAWAT-10-028**
 DATE: **3/11/10**
 SHEET NO. **26 OF 29**



125V, 20A, GFI DUPLEX RECEPTACLE WITH NEMA 3R, "IN USE" COVER. TYPICAL OF FOUR (4) THIS DRAWING.

MINI POWER ZONE MPC2 LOCATION. SEE STRUCTURAL DRAWINGS FOR MOUNTING REQUIREMENTS



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



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



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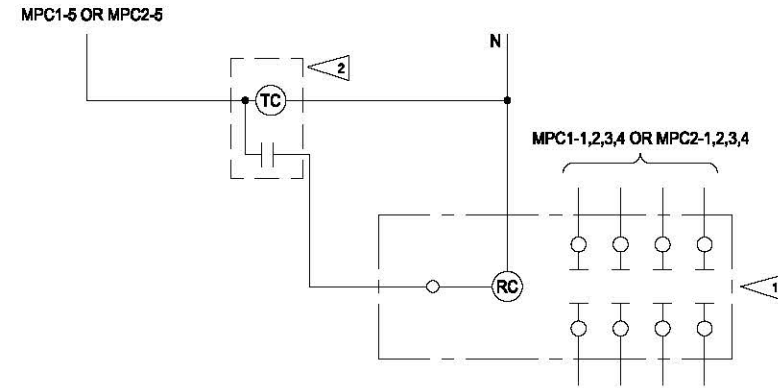
Phone: (253) 799-0118
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Job Number: 09-112

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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**



LIGHTING CONTROL DIAGRAM TYPICAL OF TWO
NO SCALE

ELECTRICAL NOTES:

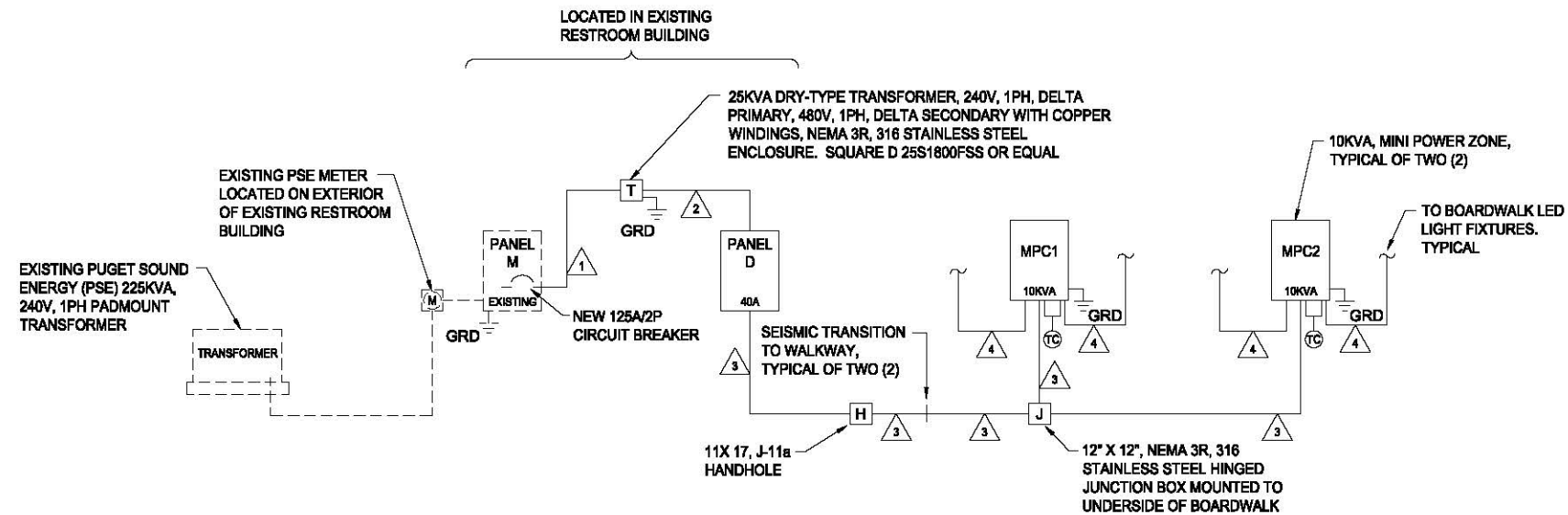
- 1 ELECTRICALLY HELD LIGHTING CONTACTORS 120V, 60Hz COIL. PROVIDE ALL CONTACTORS IN A SINGLE, NEMA 4 ENCLOSURE, 316 STAINLESS STEEL WITH HINGED AND LOCKING COVER MOUNTED BELOW PANEL MPC1 AND MPC2.
- 2 PROGRAMMABLE TIMECLOCK WITH OVERRIDE SWITCH MOUNTED BELOW WALKWAY DECK, FACING NORTH.

CONDUIT AND WIRE SCHEDULE

- 1 1" C-(2)#2 CU & (1)#8 CU GRD
- 2 3/4" C-(3)#8 CU & (1)#10 CU GRD
- 3 (2)1" C-(3)#6 CU & (1)#8 CU GRD EACH
- 4 3/4" C-(3)#10 CU & (1)#10 CU GRD

LEGEND:

- EXISTING
- NEW



EXISTING/NEW POWER RISER DIAGRAM
NO SCALE

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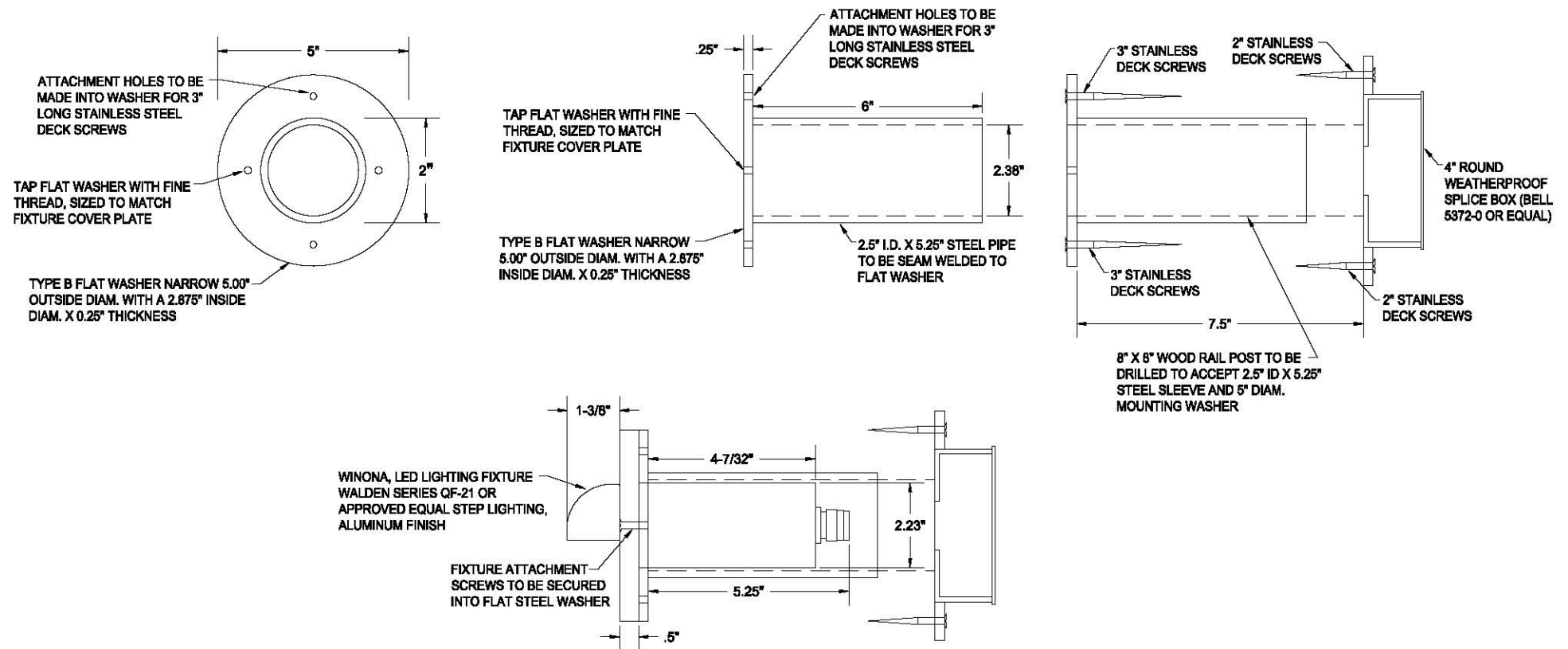


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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
PARTIAL BOARDWALK ELECTRICAL SITE PLAN

DRAWING NO. **E-6**
PROJECT NO. **SAWAT-10-028**
DATE: **3/11/10**
SHEET NO. **28 OF 29**



A BOARDWALK LIGHT MOUNTING DETAIL
E-7 NOT TO SCALE

NOTE: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL MOUNTING REQUIREMENTS.

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CITY OF BELLINGHAM
DEPT OF PARKS AND RECREATION
ELECTRICAL DETAILS

DRAWING NO. E-7
 PROJECT NO. SAWAT-10-028
 DATE: 3/11/10
 SHEET NO. 29 OF 29