NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. CAPPING ELEVATIONS SHOWN REPRESENT MAXIMUM ELEVATION ALLOWED (INCLUDES OVER-PLACEMENT ALLOWANCES).
3. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. SEE REFERENCE SHEET C-24 FOR CONTROL POINT TABLE.

LEGEND:
- EXISTING BATHYMETRY
- CONTROL POINT LOCATION AND DESIGNATION
- CAP TYPE 1 AREA
- CAP TYPE 2 AREA
- CAP TYPE 3 AREA
- CAP TYPE 4 AREA

NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. CAPPING ELEVATIONS SHOWN REPRESENT MAXIMUM ELEVATION ALLOWED (INCLUDES OVER-PLACEMENT ALLOWANCES).
3. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. SEE REFERENCE SHEET C-24 FOR CONTROL POINT TABLE.

FINAL BID DOCUMENT
WHATCOM WATERWAY PHASE 1 CLEANUP
BELLINGHAM, WASHINGTON

C-5.1

NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. CAPPING ELEVATIONS SHOWN REPRESENT MAXIMUM ELEVATION ALLOWED (INCLUDES OVER-PLACEMENT ALLOWANCES).
3. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. REFERENCE SHEET C-24 FOR CONTROL POINT TABLE.
5. EELGRASS BED LOCATIONS OBTAINED FROM SURVEY COMPLETED BY WILSON SURVEY ENGINEERING IN SEPTEMBER AND OCTOBER 2009.
6. CONTRACTOR SHALL NOT DISTURB EXISTING EELGRASS BEDS DURING COMPLETION OF WORK IN THE LOG POND AREA.
NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. CAPPING ELEVATIONS SHOWN REPRESENT MAXIMUM ELEVATION ALLOWED (INCLUDES OVER-PLACEMENT ALLOWANCES).
3. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. REFERENCE SHEET C-24 FOR CONTROL POINT TABLE.
5. EELGRASS BED LOCATIONS OBTAINED FROM SURVEY COMPLETED BY WILSON SURVEY/ENGINEERING IN SEPTEMBER AND OCTOBER 2009.

LEGEND:
- TOP OF CAP AREA CONTOURS
- EXISTING BATHYMETRY
- CONTROL POINT LOCATION AND DESIGNATION
- CAP TYPE 3 AREA
- CAP TYPE 5A AREA
- CAP TYPE 5B AREA
- CAP TYPE 6 AREA
- EXISTING BULKHEAD (ECOLOGY BLOCK)

- NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. CAPPING ELEVATIONS SHOWN REPRESENT MAXIMUM ELEVATION ALLOWED (INCLUDES OVER-PLACEMENT ALLOWANCES).
3. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. REFERENCE SHEET C-24 FOR CONTROL POINT TABLE.
5. EELGRASS BED LOCATIONS OBTAINED FROM SURVEY COMPLETED BY WILSON SURVEY/ENGINEERING IN SEPTEMBER AND OCTOBER 2009.

LEGEND:
- TOP OF CAP AREA CONTOURS
- EXISTING BATHYMETRY
- CONTROL POINT LOCATION
- EXISTING BULKHEAD (ECOLOGY BLOCK)
- TOP OF CAP AREA CONTOURS

- SCALE IN FEET
- PROJECT NORTH
- 0 60 120

- NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. CAPPING ELEVATIONS SHOWN REPRESENT MAXIMUM ELEVATION ALLOWED (INCLUDES OVER-PLACEMENT ALLOWANCES).
3. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. REFERENCE SHEET C-24 FOR CONTROL POINT TABLE.
5. EELGRASS BED LOCATIONS OBTAINED FROM SURVEY COMPLETED BY WILSON SURVEY/ENGINEERING IN SEPTEMBER AND OCTOBER 2009.
NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. PAYABLE OVERDREDGE ALLOWANCE ON SIDESLOPE AREAS WILL BE +1.0 FT.
   PAYABLE OVERDREDGE ALLOWANCE FOR ALL OTHER AREAS IS +0.5 FT UNLESS OTHERWISE NOTED ON DRAWINGS.
3. DO NOT PERFORM EXCESSIVE DREDGING AT TOE OF CUT OR IN SLOPE AREAS.
4. CONTRACTOR SHALL COMPLETE DREDGING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
5. CONTRACTOR SHALL REMOVE SLOUGH MATERIAL (AS APPLICABLE) AT FACE OF DOCK AS PART OF REQUIRED DREDGING WORK. ANTICIPATED SLOUGH VOLUME IS INCLUDED IN THE BID ITEM FOR REQUIRED DREDGING.
6. NO UNDER-PER DREDGING WILL BE PERFORMED.
NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. PAYABLE OVERDREDGE ALLOWANCE ON SIDESLOPE AREAS WILL BE +1.0 FT. PAYABLE OVERDREDGE ALLOWANCE FOR ALL OTHER AREAS IS +0.5 FT UNLESS OTHERWISE NOTED ON DRAWINGS.
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6. NO UNDER-PIER DREDGING WILL BE PERFORMED.
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3. DO NOT PERFORM EXCESSIVE DREDGING AT TOE OF CUT OR IN SLOPE AREAS.

4. CONTRACTOR SHALL COMPLETE DREDGING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

5. CONTRACTOR SHALL REMOVE SLUGH MATERIAL (AS APPLICABLE) AT FACE OF DOCK AS PART OF REQUIRED DREDGING WORK. ANTICIPATED SLUGH VOLUME IS INCLUDED IN THE BID ITEM FOR REQUIRED DREDGING.
NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-5.1 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE
3. CAP MATERIAL SHALL NOT BE PLACED ABOVE THE IN-WATER TOP OF SLOPE RESTRICTED ELEVATIONS.
4. CONTRACTOR SHALL COMPLETE CAPping ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
5. TOP OF CAP IN SECTIONS REPRESENT THE MAXIMUM ELEVATION FOR CAP PLACEMENT FOR THE CONTRACT REQUIREMENTS. MINIMUM CAP THICKNESS REQUIREMENTS AND OVERPLACEMENT ALLOWANCES ARE PRESENTED IN THE SPECIFICATIONS.
6. NO UNDER-PIER PLACEMENT OF CAP MATERIAL WILL BE PERFORMED AS PART OF THIS CONTRACT.

LEGEND:
- CAP LAYER

1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-5.1 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE
3. CAP MATERIAL SHALL NOT BE PLACED ABOVE THE IN-WATER TOP OF SLOPE RESTRICTED ELEVATIONS.
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1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
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- CAP LAYER

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LEGEND:
CAP LAYER

NOTES:
1. REFERENCE SHEET C-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-6 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE.
3. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. TOP OF CAP IN SECTIONS REPRESENT THE MAXIMUM ELEVATION FOR CAP PLACEMENT FOR THE CONTRACT REQUIREMENTS. MINIMUM CAP THICKNESS REQUIREMENTS AND OVERPLACEMENT ALLOWANCES ARE PRESENTED IN THE SPECIFICATIONS.
LEGEND:
- CAP LAYER

NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-6 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE.
3. ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
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WHATCOM WATERWAY PHASE 1 CLEANUP
BELLINGHAM, WASHINGTON

LEGEND:
- CAP LAYER

NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-6 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE.
3. ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
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LEGEND:
- CAP LAYER

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1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-6 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE.
3. ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
4. TOP OF CAP IN SECTIONS REPRESENT THE MAXIMUM ELEVATION FOR CAP PLACEMENT FOR THE CONTRACT REQUIREMENTS. MINIMUM CAP THICKNESS REQUIREMENTS AND OVERPLACEMENT ALLOWANCES ARE PRESENTED IN THE SPECIFICATIONS.
NOTES ON CATCH BASIN INSERT:
1. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15)
2. SIZE THE BELOW GRAVE VALVE DEVICE (BGV) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
3. THE BGV SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS)
4. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BGV SYSTEM WITHOUT SPILLING THE COLLECTED MATERIAL.

GENERAL NOTES:
1. EXAMPLES SHOWN ARE FOR CONTRACTOR INFORMATION ONLY AND INTENDED TO SHOW EXAMPLE BEST MANAGEMENT PRACTICES. DESIGN AND OPERATIONS OF STOCKPILE MANAGEMENT AND OFFLOADING OPERATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. COMPLY WITH ALL CONTRACT DOCUMENTS, ENVIRONMENTAL MANAGEMENT PLAN, AND THE FEDERAL, STATE AND LOCAL PERMIT REQUIREMENTS FOR OFFLOAD FACILITY AND STOCKPILING.
2. DRAWINGS SHOW POTENTIAL STAGING AND STOCKPILE AREA LOCATIONS ADJACENT TO THE WHATCOM WATERWAY. THE CONTRACTOR MUST COORDINATE DIRECTLY WITH THE PORT IF THEY DESIRE TO USE A DIFFERENT FACILITY.
3. STAGING AND STOCKPILE AREAS MUST, AT A MINIMUM, MEET THE REQUIREMENTS OF THE SPECIFICATIONS.
4. THE STAGING AND STOCKPILE AREA OPERATOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR FACILITY OPERATIONS, INCLUDING, BUT NOT LIMITED TO ALL STAGING AND STOCKPILE AREA STEWATER AND DEWATERING DISCHARGES.
5. SEDIMENT SHALL NOT BE PLACED MORE THAN 4 FEET HIGH IMMEDIATELY AGAINST ECOLOGY BLOCK WALL.
6. DO NOT STACK SEDIMENT AT A SLOPE GREATER THAN 1:2 ADJACENT TO ECOLOGY BLOCK WALL.
7. SEDIMENT SHALL BE REMOVED FROM EXISTING ROADWAY TO THE RADIUS RETURNS, OR AS DIRECTED BY THE ENGINEER.
8. CLEAN TRANSLOAD FACILITY DAILY.
9. DETAILS SHOW SEDIMENT STACKED GREATER THAN 4 FEET HIGH FOR ILLUSTRATIVE PURPOSES ONLY. DEPICTION OF STACKED SEDIMENT DOES NOT INDICATE POTENTIAL WORKABILITY AND FLOW BEHAVIOR OF DREDGED MATERIAL, AND SHALL NOT BE USED BY THE CONTRACTOR AS A BASIS FOR ANTICIPATING DREDGE MATERIAL CONDITIONS DURING THE WORK.
10. DETAILS SHOWN ARE FOR CONTRACTOR INFORMATION ONLY. DESIGN AND CONSTRUCTION OF CONTAINMENT SILT CURTAINS (IF NEEDED) AND OFFLOADING OPERATIONS TO BE PERFORMED BY CONTRACTOR.
11. TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) FEATURES SHALL BE INSTALLED TO PREVENT RUNOFF FROM THE DEWATERED SEDIMENT FROM ENTERING ADJACENT SURFACE WATER BODY. THE NEED FOR THESE FEATURES, AND THEIR LOCATION, SHALL BE DETERMINED DURING CONSTRUCTION, BASED ON THE ACTUAL LOCATION OF THE OFFLOADING AND TEMPORARY STOCKPILE AREAS.
12. TESC FEATURES SHALL BE USED BETWEEN ALL POTENTIAL SOURCES OF RUNOFF AND ADJACENT SURFACE WATER BODIES WHERE THE SURFACE WATER IS DOWNSLOPE OF THE OFFLOADING AND STAGING AND STOCKPILE AREAS.
14. A STABILIZED ENTRANCE, SUCH AS THE DETAIL SHOWN, SHALL BE CONSTRUCTED; IF NECESSARY, TO PREVENT TRACKING OF SEDIMENT INTO PUBLIC ROADWAYS AND TO PREVENT EROSION AND RUNOFF FROM ACCESS ROUTES.
15. CATCH Basin INSERTS SHALL BE INSTALLED IN ALL CATCH BASINS IN VICINITY OF STAGING AND STOCKPILE AREA IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
TRUCK WASH STATION NOTES:

1. VEHICLES SHALL BE DESIGNATED TO REMOVE SOIL/DEBRIS PRIOR TO EXITING, IF, AS DETERMINED BY THE ENGINEER, BRUSH CLEANING IS NOT EFFECTIVE DECONTAMINATING VEHICLES, THEN THE CONTRACTOR SHALL FLUID WASH THE VEHICLES. WASH STATION SHALL BE CONSTRUCTED WITH A 20 MIL HDPE LINER SYSTEM TO DRAIN TO 2' DEEP HDPE LINED COLLECTION SUMP. DECONTAMINATION WATER IN THE COLLECTION SUMP SHALL BE DISPOSED OF IN ACCORDANCE WITH THE SPECIFICATIONS.

2. THE TRUCK WASH STATION SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOODED OF SOIL/DEBRIS INTO ADJACENT PAVED AREAS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND _/AND_ OR CLEAN OUT OF THE COLLECTION SUMP. ALL SOIL/DEBRIS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT PAVEMENT MUST BE REMOVED IMMEDIATELY.

3. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

4. STONE AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF AT AN APPROPRIATE DISPOSAL FACILITY AT THE CONCLUSION OF THE PROJECT.

NOTES:

1. WEIGHT SCALE FOUNDATION IS SHOWN AS TYPICAL AND SHALL BE DETERMINED BY THE CONTRACTOR FOR ACCEPTANCE BY THE ENGINEER.

2. CHECK STATE REGULATIONS FOR APPROACH RAMP LENGTH (TYPICALLY 10' LEVEL, 25' SLOPING).

3. THE FOUNDATION DESIGN (CONCRETE AND REBAR SPECIFICATIONS) SHOWN IS FOR A NATIONAL RANGE OF CONDITIONS AND MAY NEED MODIFICATION FOR LOCAL CONDITIONS.
NOTES:

1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.

2. PAYABLE OVERDREDGE ALLOWANCE ON SIDESLOPE AREAS WILL BE +1.0 FT. PAYABLE OVERDREDGE ALLOWANCE FOR ALL OTHER AREAS IS 0.5 FT UNLESS OTHERWISE NOTED ON DRAWINGS.

3. DO NOT PERFORM EXCESSIVE DREDGING AT TOE OF CUT OR IN SLOPE AREAS.

4. CONTRACTOR SHALL COMPLETE DREDGING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

5. CONTRACTOR SHALL REMOVE SLOUGH MATERIAL (AS APPLICABLE) AT FACE OF DOCK AS PART OF REQUIRED DREDGING WORK. ANTICIPATED SLOUGH VOLUME IS INCLUDED IN THE BID ITEM FOR REQUIRED DREDGING.

6. NO UNDER-PIER DREDGING WILL BE PERFORMED.
1. Reference Sheet G-2 for survey and datum information.
2. Reference Sheet G-3 for plan view of RMC locations.
3. RMC material shall not be placed above the in-water top of slope restricted elevations.
4. Contractor shall complete RMC activities according to sequencing requirements shown on drawings and described in the specifications.
5. Reference Sheet C-4 for plan view of locations for placement of residual management cover material.
6. Top of RMC in sections represent the maximum elevation for RMC placement per the contract requirements. Minimum RMC thickness requirements and overplacement allowances are presented in the specifications.
7. No under-deride placement of RMC material will be performed as part of this contract.
NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. PAYABLE OVERTRIEDGE ALLOWANCE ON SLOPE AREAS WILL BE +1.0 FT. PAYABLE OVERTRIEDGE ALLOWANCE FOR ALL OTHER AREAS IS +0.5 FT UNLESS OTHERWISE NOTED ON DRAWINGS.
3. DO NOT PERFORM EXCESSIVE DREDGING AT TOE OF CUT OR IN SLOPE AREAS.
4. CONTRACTOR SHALL COMPLETE DREDGING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
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6. NO UNDER-PIER DREDGING WILL BE PERFORMED.
WHATCOM WATERWAY PHASE 1 CLEANUP
BELLINGHAM, WASHINGTON

CAPPING DETAILS

C-21

FINAL BID DOCUMENT

NOTES:

1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-4.1, C-5.1, AND C-6.1 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE.
3. CAP MATERIAL SHALL NOT BE PLACED ABOVE THE RESTRICTED ELEVATIONS.
4. CONTRACTOR SHALL COMPLETE CAPPING ACTIVITIES ACCORDING TO SEQUENCING REQUIREMENTS SHOWN ON DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
5. NO UNDER-PIER PLACEMENT OF CAP MATERIAL WILL BE PERFORMED AS PART OF THIS CONTRACT.
6. CONTRACTOR SHALL COMPLETE FIELD MEASUREMENTS TO VERIFY TIMBER BULKHEAD ELEVATIONS WILL NOT PROTRUDE INTO ARMOR LAYER. CONTRACTOR TO NOTIFY ENGINEER FOR CLARIFICATION.

NOTE:

TYPE 2 FILTER MATERIAL MINIMUM REQUIRED THICKNESS IS 12 INCHES.
NOTES:
1. REFERENCE SHEET G-2 FOR SURVEY AND DATUM INFORMATION.
2. REFERENCE SHEET C-4.1, C-5.1, AND C-6.1 FOR PLAN VIEW OF LOCATIONS FOR EACH CAP TYPE.
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5. NO UNDER-PIER PLACEMENT OF CAP MATERIAL WILL BE PERFORMED AS PART OF THIS CONTRACT.
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SEE DRAWING C-3

SEE DRAWING C-3
**Temporary Wall Relief Excavation:**

Section A-A

- **Concrete Cap and Sheet Pile Wall:**
  - 6" Gravel Ballast
  - Structural Fill

Section B-B

- **Concrete Cap and Sheet Pile Wall:**
  - 6" Gravel Ballast
  - Structural Fill

Section C-C

- **Concrete Cap and Sheet Pile Wall:**
  - 6" Gravel Ballast
  - Structural Fill

Section D-D

- **Concrete Cap and Sheet Pile Wall:**
  - 6" Gravel Ballast
  - Structural Fill

**Note:**

Temporary wall relief excavation shall be performed prior to grading adjacent to wall, see structural sheets for framing. Unplanned height required in this area. After wall construction, contractor shall place structural fill and ballast.
FOAM TANK STORM DRAINAGE PLAN

NOTES:
1. CONTRACTOR SHALL FIELD VERIFY EXISTING FUELPipe locations, existing pipe ends, existing pipe, and points of connection to existing pump pads on the plan. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS THAT MAY IMPACT THE WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF THE SIZE AND LOCATION OF ALL EXISTING DRAINAGE UTILITIES AND EXISTING UTILITIES SHOWN HAVING BEEN OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ADDITIONAL UTILITIES NOT SHOWN. CONSTRUCTION ACTIVITY SHOULD BE TAKEN TO AVOID DAMAGES OR DISTURBANCE TO UTILITIES TO AVOID THE CONTRACTOR BEING RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS ACTIVITIES.

3. SEE SHEET CU-8 FOR STORM DRAIN LINE LIFE EXPECTANCY.
4. SEE SHEET D-20 FOR EXISTING PAVING DEMOLITION.
GENERAL:

These notes contain general information and are not complete for construction purposes. Contractor shall verify all data given herein with specifications and other documents and bring any complete to the attention of the Port before concluding work. The engineer will receive any such complete.

CONTRACTOR SHALL VERIFY ALL LEVEL LINES AND ELEVATING CONSTRUCTIONS BEFORE THE JOB IS PROCEEDED. CONSTRUCTION SHALL NOT PROCEED UNTIL THE CONTRACTOR HAS RECEIVED WRITTEN PERMISSION FROM THE PORT TO PROCEED. PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISPUTES REFERRED TO ARBITRATION, THE CONTRACTOR SHALL DEPOSIT A DOWN PAYMENT IN THE AMOUNT OF $10,000 TO THE PORT, PRIOR TO INSTALLATION OR FABRICATION. SUBMITTED CALCULATIONS AND MATERIALS INFORMATION MUST BE STAMPED OR RETURNED TO THE PORT.

DESIGN DRAWINGS AND CALCULATIONS ON SHOP DRAWINGS, FOR THE DESIGN AND FABRICATION OF ITEMS WHICH ARE DESIGNED BY OTHERS, SHALL BE THE SEAL AND SIGNATURE OF THE DESIGNING ENGINEER. MATERIALS TO BE SUPPLIED BY THE CONTRACTOR, WHERE SPECIFIED AS "PORT'S SUPPLIES," SHALL BE PREPAID AND DELIVERED TO THE PORT AT THE PORT'S LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SECURITY PRECAUTIONS AND THE METHOD, TECHNIQUES, SEQUENCES OF PROCESSES REQUIRING TO PERFORM THE WORK.

NO EXISTING CONDITION ASSESSMENT HAS BEEN PERFORMED TO VERIFY THAT ANY OF THE EXISTING STRUCTURAL ELEMENTS ARE IN GOOD CONDITION OR HAVE THE CAPACITY TO SUPPORT ANY ADDITIONAL LOADS. IF SO, THE CONTRACTOR SHALL USE EXISTING STRUCTURES AT THEIR OWN RISK.

CODES AND STANDARDS:

- ASCE 7-10 "WIND LOAD CODE FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS.
- ACI 318-14 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE (ACI).
- SPI-10-05 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- AWWA C100 "WELDING CODE FOR REINFORCED CONCRETE, AMERICAN SOCIETY OF CIVIL ENGINEERS.
- "PATTERN SPACING FOR STRUCTURAL CONCRETE," AMERICAN SOCIETY OF CIVIL ENGINEERS.
- "CONSTRUCTION OF WATERFRONT WALLS," AMERICAN SOCIETY OF CIVIL ENGINEERS.
- "STEEL STRUCTURAL STEEL FABRICATIONS - ASTM A 36, LRG.
- "STEEL SHAPES - ASTM A 992, GRS.
- "STEEL PLATES - ASTM A 480, GRS.
- "STEEL PIPE CONNECTIONS - API MANUFACTURER.
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**INSPECTION SCHEDULE NOTES:**

1. THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH BC SECTION 230 AND 177. A CERTIFIED SPECIAL INSPECTOR SHALL PERFORM THE INSPECTION IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE CANADIAN NATIONAL BUILDING CODE (CNSBC). THE SPECIAL INSPECTOR SHALL BE REGISTERED WITH THE BC BUILDING CODES CORPORATION AND SHALL RETAIN THE RECORDS OF THE INSPECTIONS.

2. SOUS.
   - **BRIDGE TESTING**
   - **CONCRETE PLACEMENT**
   - **CONCRETE CURING**

3. ALL WELDS SHALL BE VISUALLY INSPECTED.

4. *ALL* WELDS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER APPROVED RX MOD.

**ABBREVIATIONS:**

- **AB** ANCHOR BOLT
- **AC** ASPHALT CONCRETE PARCELMENT
- **AD** ADDITIONAL
- **AG** ASSURABLE
- **RIP** AUTHORIZED INSPECTOR (A.I.)
- **ANCH** ANCHOR
- **B** BOTTOM OF
- **B/C** BUILDING
- **BM** BEAM
- **BO** BOTTOM
- **BRG** BEARING UP
- **BYM** BETWEEN
- **CC** CENTER TO CENTER
- **CF** CAST IN PLACE
- **CFP** CONCRETE FLOW PLUG
- **CH** CLEARANCE HANGER
- **CIL** CILS
- **CML** COLUMN
- **CONE** CONE
- **COR** CONNECTION ROD
- **CST** CONSTRUCTION NUMBER
- **CTR** CONTRACTOR
- **CTE** CABLE TENSION
- **DIA** DIAMETER
- **DL** DIVERGENT BAR ANCHOR
- **DUB** DOUBLE BAR
- **DYN** DYNOMETER
- **DRT** DRT
- **DRT** T
t
- **EAC** EAC
- **EAS** EAS
- **EF** END FIXTURE
- **EFT** EFT
- **FF** FLOOR FRAME
- **FH** FOUNDATION
- **FIN** FINISH
- **FLG** FLANGE
- **FRR** FLOOR
- **FP** FIRST-REINFORCED PLASTIC
- **FRP** FIBER-REINFORCED PULTRUDED
- **FT** FILLING
- **FTH** FILLING THICKNESS
- **FV** FLOW VOLUME
- **G** GAS
- **GDL** GAUGE
- **GMD** GENERAL MANUFACTURER
- **H** HIGHPOINT
- **HSH** HOLLOW STRUCTURAL SECTION
- **IBC** INTERNATIONAL BUILDING CODE
- **ID** INSIDE DIA.
- **IGG** INSTALLATION GAGE
- **IK** INK
- **INS** INSULATION
- **IP** INSULATION PADDING
- **IR** INSULATION ROLL
- **IS** INSULATION SHEATH
- **IT** INSULATION TUBE
- **IY** INSULATION YARD
- **J** JAMB
- **JE** JAMB EDGE
- **JL** JAMBITER
- **JNC** JOINT
- **JOH** JOINER
- **JSD** JOINT SEALING DEVICE
- **JSD** JOINT SEALING DEVICE
- **JSD** JOINT SEALING DEVICE
- **JSD** JOINT SEALING DEVICE
- **K** KEEPER
- **KPS** KPS HIGH
- **KPS** KPS LOW
- **L** LEVEL
- **LB** LAMP
- **LH** LONG HORIZONTAL
- **LY** LONG VERTICAL
- **M** MATH
- **MAF** MATH
- **MC** MENORAH
- **MDW** MATERIALS
- **MEX** MEXICALI
- **MW** MASON WIREWORK
- **MWHM** MASON WIREWORK
- **N** NATHAN
- **NCH** NUMBER
- **NHR** NO HORIZONTAL
- **NOM** NO MOUNT
- **NORTH** NORTH
- **NT** NOT TO SCALE
- **OB** OPEN
- **OFG** OPENING
- **OG** OPEN GROOVE
- **OL** OUTER LATERAL
- **OP** OPENING
- **OPR** OPERATOR
- **OR** ORD
- **OS** OSMOTIC
- **PS** PRESSURE SEAL
- **PT** PATTERN
- **PVT** PRIVACY
- **PW** PRESSURE WIRE
- **QG** QUALIFIED GAGING
- **QIG** QUALIFIED INSPECTOR GAGING
- **QI** QUALIFIED INSPECTORS
- **R** REFERENCE MARK
- **RBB** REBAR BAND
- **RBW** REBAR WIRE
- **RC** REBAR CABLE
- **RCR** REBAR_ROD
- **RE** REBAR
- **RM** REBAR MARKER
- **RNB** RIM NOSE
- **RPM** REBAR PLACEMENT MARKER
- **RQP** RIM PLATE
- **RSL** REBAR SUPPORT
- **RTP** REBAR TEMPLATE
- **RVR** ROUND traverse
- **RVT** RIVET
- **RWD** RATED WIDTH
- **S** SAW
- **SGD** SAW-GRIND-DRILL
- **SGS** SAW-GRIND-SEW
- **SHE** SHEET
- **SHEAT** SHEET METAL
- **SHR** SHARK
- **SHP** SHIP
- **SM** SOLDERING MELT
- **SN** STANDARD
- **SNL** STAMP NUMBER
- **SNP** STAMP NUMBER
- **SNR** STAMP NUMBER
- **SORT** SORTING
- **SP** SPACER
- **SPE** SPEAKER
- **SR** SPECIFIED
- **SQ** SQUARE
- **STD** STANDARD
- **STR** STRUCTURAL
- **STU** SUPPORT
- **SYM** SYMMETRICAL
- **T** T-BAR
- **TB** TOP BAR
- **TC** TOP CENTER
- **TD** TOP DEAD
- **THL** THRESHOLD
- **THM** THRESHOLD MARK
- **TIP** TYPICAL
- **TP** TWIN PLUG
- **TWP** TWIN PLUG
- **TYP** TYPICAL
- **U** UBAR
- **UDD** UNEVEN DESIGNATED
- **USS** UNLESS OTHERWISE SPECIFIED
- **V** VERTICAL
- **VNP** VERTICAL NO PLUG
- **W** WALL
- **WAP** WELDED ANCHOR PLATE
- **WAS** WELDING AREA
- **WFB** WELDING FABRIC

**PORT OF BELLINGHAM**

**WHATCOM WATERWAY PHASE 1 CLEANUP**

**BELLINGHAM, WASHINGTON**

**S-2**

**GENERAL STRUCTURAL NOTES, ABBREVIATIONS & SYMBOLS**

**REVISIONS:**

- **DATE**
- **12/06/19**

**CHECKED:**

- **DATE**

**APPROVED:**

- **DATE**

**SHEET NO.** 77 of 104
MAPLE ST. FENDER SYSTEM PLAN

SCALE: 1'-0"/10'

NOTES:
1. INSTALL FENDER FILES AFTER DREDGING AND CAPPING HAVE OCCURRED.
2. ROPE GUARD NOT SHOWN FOR CLARITY. FOR DETAILS SEE S-28.
3. TIEBACKS NOT SHOWN FOR CLARITY.
4. FOR MOORING CLEAR LOCATIONS, SEE S-7.

A ELEVATION
SCALE: 1'-0"/10'
SECTION A

SECTION B

DETAIL 1

DETAIL 2

C. ROPE GUARD SPLICE CONNECTION

NOTE 1:
GRIND THE ENDS OF SLIDE SLEEVE AND ROPE GUARD END ROUND HAMMERED ENDS. COMPLETE FIT WHEN FABRICATING AND AGAIN WHEN INSTALLING. GRIND SLIDE SLEEVE ONLY ON LONG END BEFORE FINAL INSTALL.

HEAVY HEX JAM NUT

HEAVY HEX JAM NUT

DOG BONE SHACKLE DETAIL

WHITCOM WATERWAY PHASE 1 CLEANUP
BELLINGHAM, WASHINGTON

MAPLE ST. FENDER SYSTEM - DETAILS 2

S-26
2. For cleat locations see drawings 5-A, 5-B and 5-C.
3. Cap reinforcement not shown for clarity.