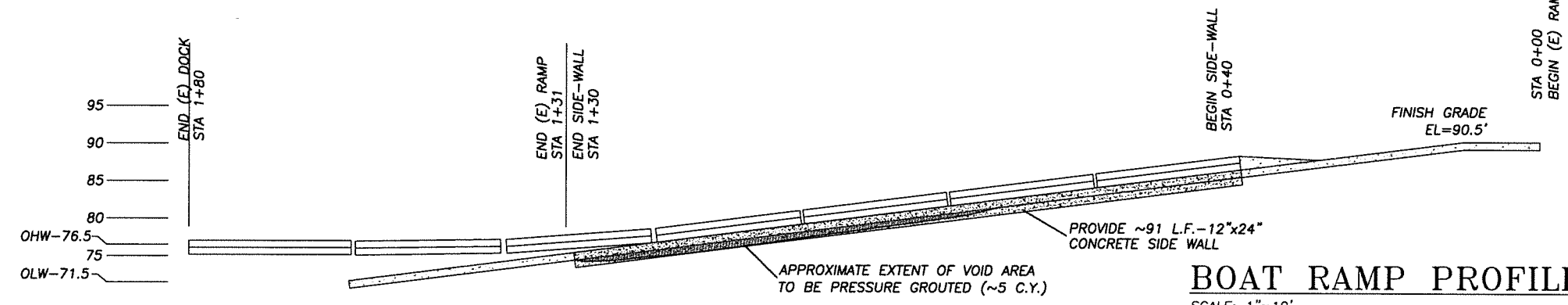
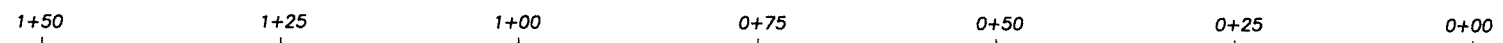


BOAT RAMP REPAIR NOTES

1. INSTALL FLOATING CONTAINMENT BOOM AND CURTAIN.
2. EXCAVATE FOR SIDE WALL AND FOUNDATION. LIMIT SIZE AND POSITION OF EQUIPMENT TO AVOID DAMAGING RAMP AT VOID SPACE. USE RUBBER-TIRED/TRACKED EQUIPMENT ON RAMP.
3. FORM, REINFORCE, WATERSTOP, AND INSTALL CONCRETE SIDE WALL PER DETAILS. LET CURE 7 DAYS BEFORE GROUTING.
4. CORE DRILL THROUGH RAMP AT A MINIMUM OF THREE (3) LOCATIONS.
5. PRESSURE PUMP CDF SLURRY THROUGH CORED HOLES BEGINNING AT THE LOWEST ONE. VERIFY PLACEMENT PROGRESS VIA INSPECTION HOLES THROUGH SIDE WALL. PLUG HOLES AS SLURRY OPERATION PROGRESSES.
6. WALKWAY AND WEST RAMP MUST BE KEPT OPEN DURING CONSTRUCTION.

APPROXIMATE FLOOD ELEVATIONS	
100 YR EVENT	~89.0
50 YR EVENT	~88.0
25 YR EVENT	~86.5
10 YR EVENT	~85.0
2 YR EVENT	~81.5



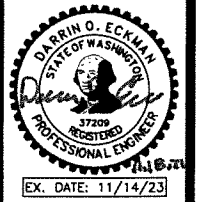
Design	T.E.C.	Survey	T.E.C.
DWG. No.	16148	Drawn	T.E.C.
Date	9/7/2021	Scale	16148
Work Order No.	16148	Shown	16148

BOAT RAMP REPAIR
FOR THE
KLICKITAT COUNTY
PORT DISTRICT NO. 1
BINGEN, KLICKITAT COUNTY, WASHINGTON

TENNESON ENGINEERING CORP.
CONSULTING ENGINEERS
3775 CRATES WAY
THE DALLES, OREGON 97058
PH. 541-296-9177 FAX 541-296-6657

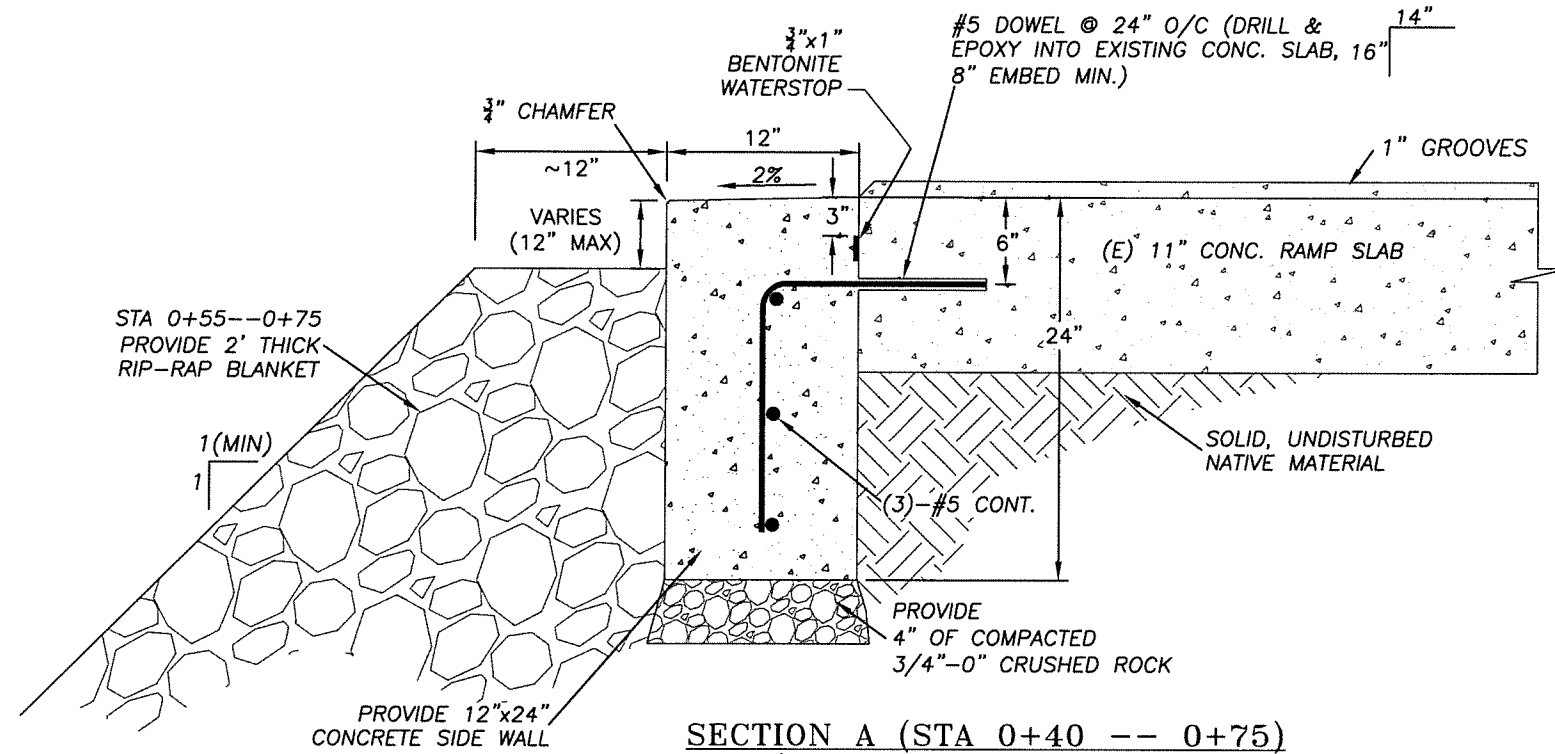
FOR BID

IF THIS BAR IS NOT ONE INCH, THEN ADJUST SCALES ACCORDINGLY

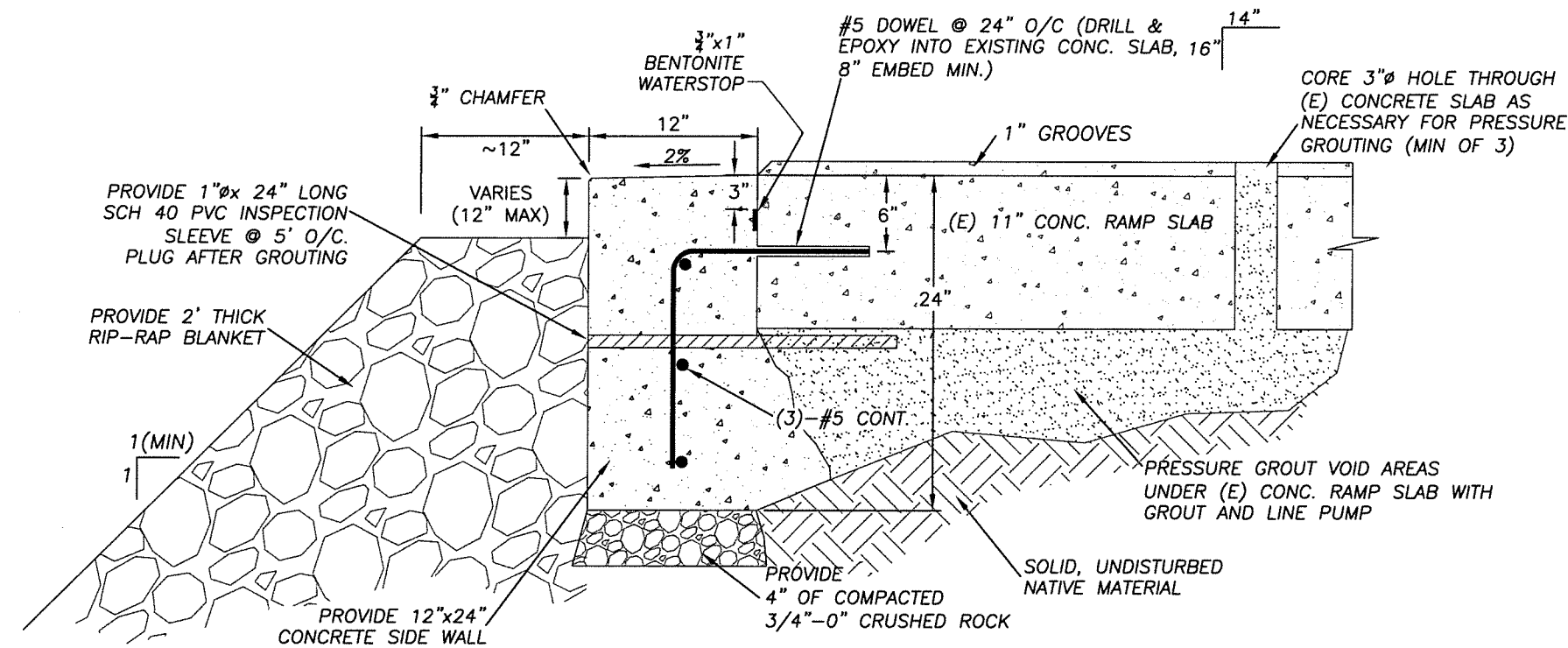


SHEET
1 OF 2

Work Order No.
16148



SECTION A (STA 0+40 -- 0+75)
SCALE: 1/2"=1'



SECTION B (STA 0+75 -- 1+31)
SCALE: 1/2"=1'

CONSTRUCTION NOTES

- CONCRETE - $f'_c = 4,000$ PSI @ 28 DAYS
- 5% AIR ENTRAINMENT

GROUT - CONTROLLED LOW STRENGTH MATERIAL
- HIGHLY FLOWABLE LEAN CONCRETE
- $f'_c = 100-200$ PSI @ 28 DAYS

WATERSTOP - W.B. MEADOWS WATERSTOP EC OR EQUAL

RIP-RAP - 8" TO 16" ANGULAR ROCK

REBAR - GRADE 60

EPOXY - SIMPSON AT-XP OR EQUAL
- CONCRETE TO BE POURED DIRECTLY AGAINST THE EARTH ON THE RAMP SIDE.
- PROVIDE BROOMED SURFACE ON TOP OF WALL.
- CLEAN SURFACE AND APPLY A 1/8"-1/4" BEAD OF CLAY-TITE MASTIC (WR MEADOWS) TO FACE OF (E) CONC RAMP WHERE WATERSTOP IS TO ATTACH.

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FOR BID

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SHEET
2 OF 2

Work Order No.
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BOAT RAMP REPAIR
FOR THE
KLICKITAT COUNTY
PORT DISTRICT No. 1
BINGEN, KLICKITAT COUNTY, WASHINGTON
POST DATE:

Survey T.E.C.
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