

## Russell, Merlin

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**From:** Morgan, Steve  
**Sent:** Monday, January 06, 2014 7:47 AM  
**To:** 'BOSEK, JOHN E'  
**Cc:** Tripp, Anthony; Russell, Merlin  
**Subject:** RE: Questions regarding control joint with water stop on drawing 64BW-5600-500

John:

The Department has no objection to the proposed change. No permit modification is needed. When you submit your construction certification for the solidification pad, you can identify the change as an approved construction deviation.

Please feel free to e-mail or call me if you have any further questions. Please note the recent changes in the Southwest District office number and my phone and extension in the signature block below.

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Florida Department of Environmental Protection  
Southwest District Office  
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e-mail - [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

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**From:** BOSEK, JOHN E [mailto:bosek.john@cleanharbors.com]  
**Sent:** Thursday, January 02, 2014 12:41 PM  
**To:** Russell, Merlin; Morgan, Steve  
**Subject:** FW: Questions regarding control joint with water stop on drawing 64BW-5600-500

Good afternoon and Happy New Year Merlin and Steve!

There has been a question brought up with regards to the placement of the water stop for the solidification pad and the saw cut depth. Attached is a revised drawing as agreed upon by the contractor doing the work and our engineering department. Do we need to provide this as a modification, or is it covered based on current design specifications related to such work here in Florida?

### ***Safety Starts with Me: Live It 3-6-5***

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#### **John Bosek**

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**From:** Conklin, Kevin M  
**Sent:** Thursday, January 02, 2014 11:34 AM  
**To:** BOSEK, JOHN E; Desha, David; Whiting, Paul T  
**Cc:** Neault, Garrett J; BODIFORD, MICHAEL S; MCDUFFIE, JAMES W; [johnb.mm@verizon.net](mailto:johnb.mm@verizon.net)  
**Subject:** RE: Questions regarding control joint with water stop on drawing 64BW-5600-500

Gentlemen,

Here is the revised drawing "ISSUED FOR CONSTRUCTION" Rev. 0 showing the revised saw cut depth to 2" and the 6" neoprene waterstop is located above the rebar instead of below as shown on Rev. D dated 7/22/13.

Kevin

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**From:** BOSEK, JOHN E  
**Sent:** Monday, December 30, 2013 8:58 AM  
**To:** Conklin, Kevin M; Desha, David; Whiting, Paul T  
**Subject:** FW: Questions regarding control joint with water stop on drawing 64BW-5600-500

Morning Paul / Kevin –

Thoughts on the below statements??

### ***Safety Starts with Me: Live It 3-6-5***

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**From:** John Bechtol [<mailto:johnb.mm@verizon.net>]  
**Sent:** Thursday, December 26, 2013 3:34 PM  
**To:** BOSEK, JOHN E; BODIFORD, MICHAEL S  
**Cc:** 'Gary Givans'; 'chris'  
**Subject:** Questions regarding control joint with water stop on drawing 64BW-5600-500

Gentlemen:

Before we pour the Concrete Slab Mix Tub Area, we have the following comments about Section A-A on drawing 64BW-5600-500.

1. The American Concrete Institute recommends that the saw cut be at least  $\frac{1}{4}$  of the thickness of the slab. For our 8" slab that would be 2" deep.
2. In our opinion the 6" neoprene water stop laid horizontally beneath the rebar matt will interfere with the crack propagation at the control joint.

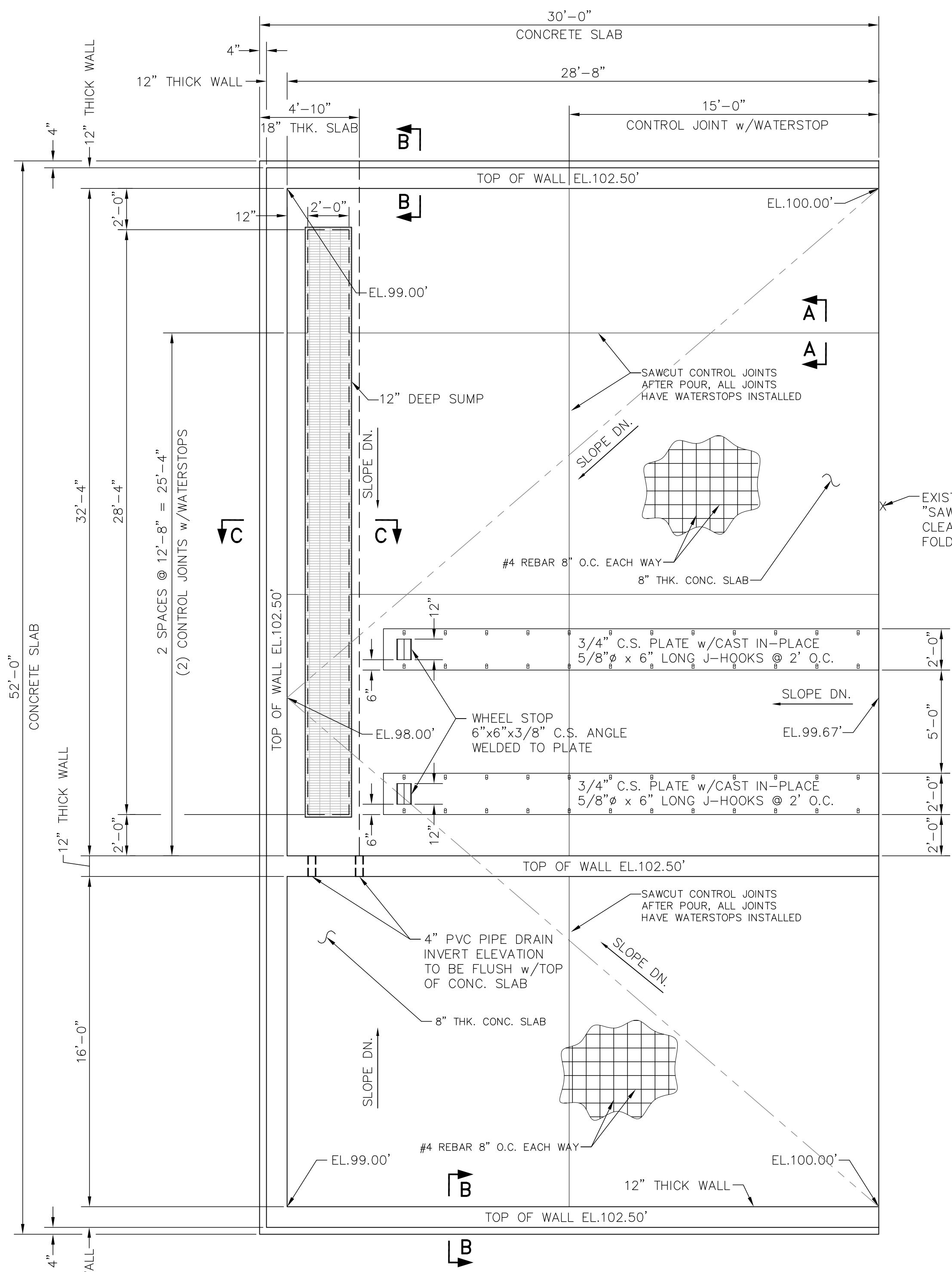
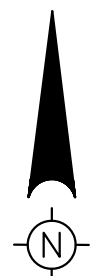
- a. We believe the result will be either the crack will propagate from the bottom of the saw cut to one of the ends of the water stop,
  - b. or the crack will not propagate at the saw cut and the cracking will not be controlled.
3. In either case we think that the water stop laid horizontally will not stop water and will interfere with the intended crack propagation.

We will construct the joint as you like, however, we cannot guarantee the performance of the control joint as detailed in Section A-A.

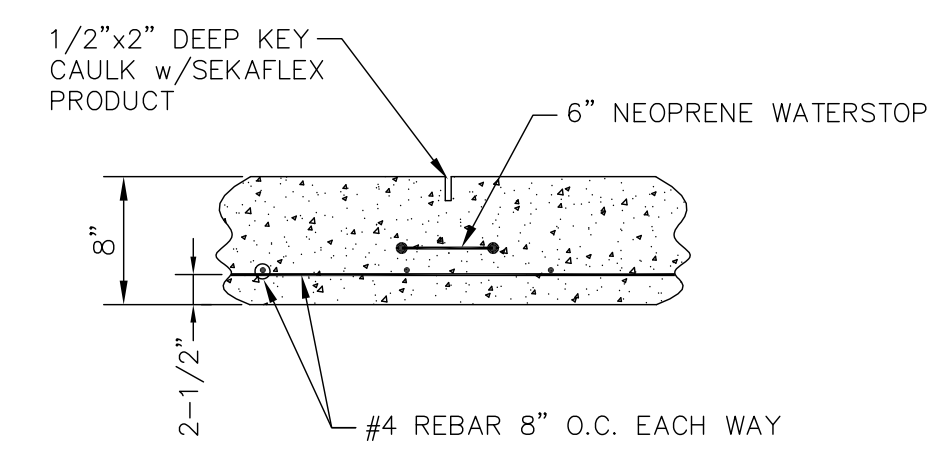
We have included a marked up copy of Section A-A and a typical expansion crack control joint for your information. Thank you for your prompt consideration of this request.

Thanks.

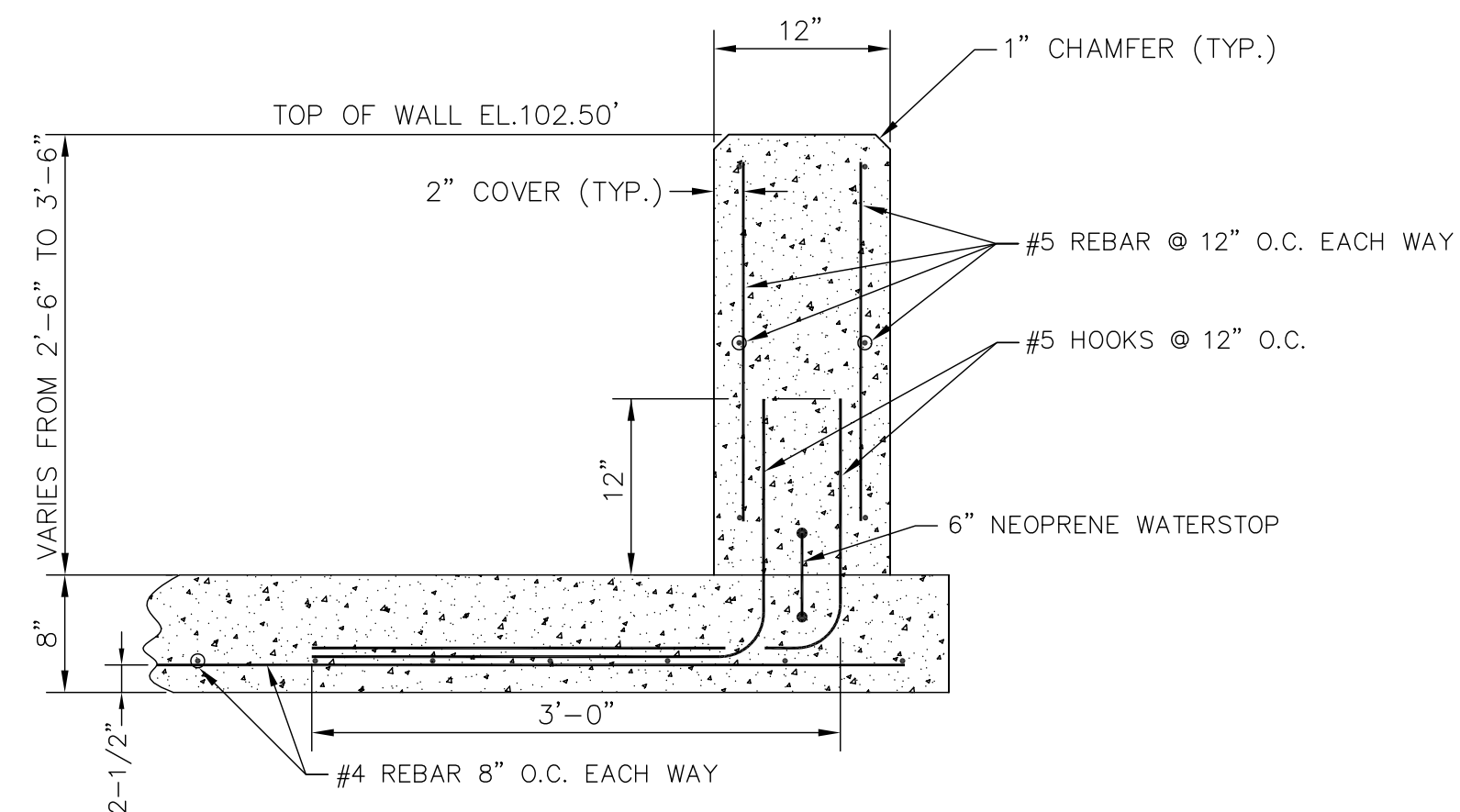
**John S. Bechtol, PE**  
**Maintenance and Machinery Erectors, Inc.**  
**Phone 863-425-3870**  
**Cell 863-559-8229**  
**Fax 863-425-2386**



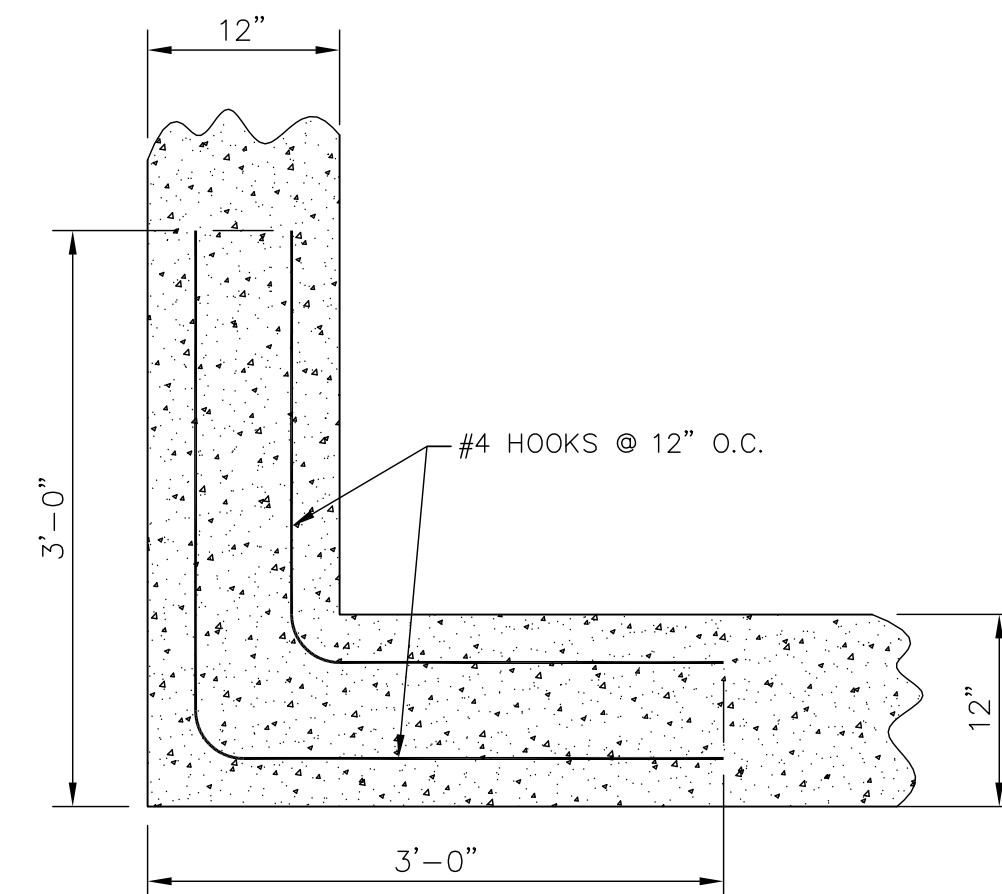
**PLAN**  
SCALE: 1/4" = 1'-0"



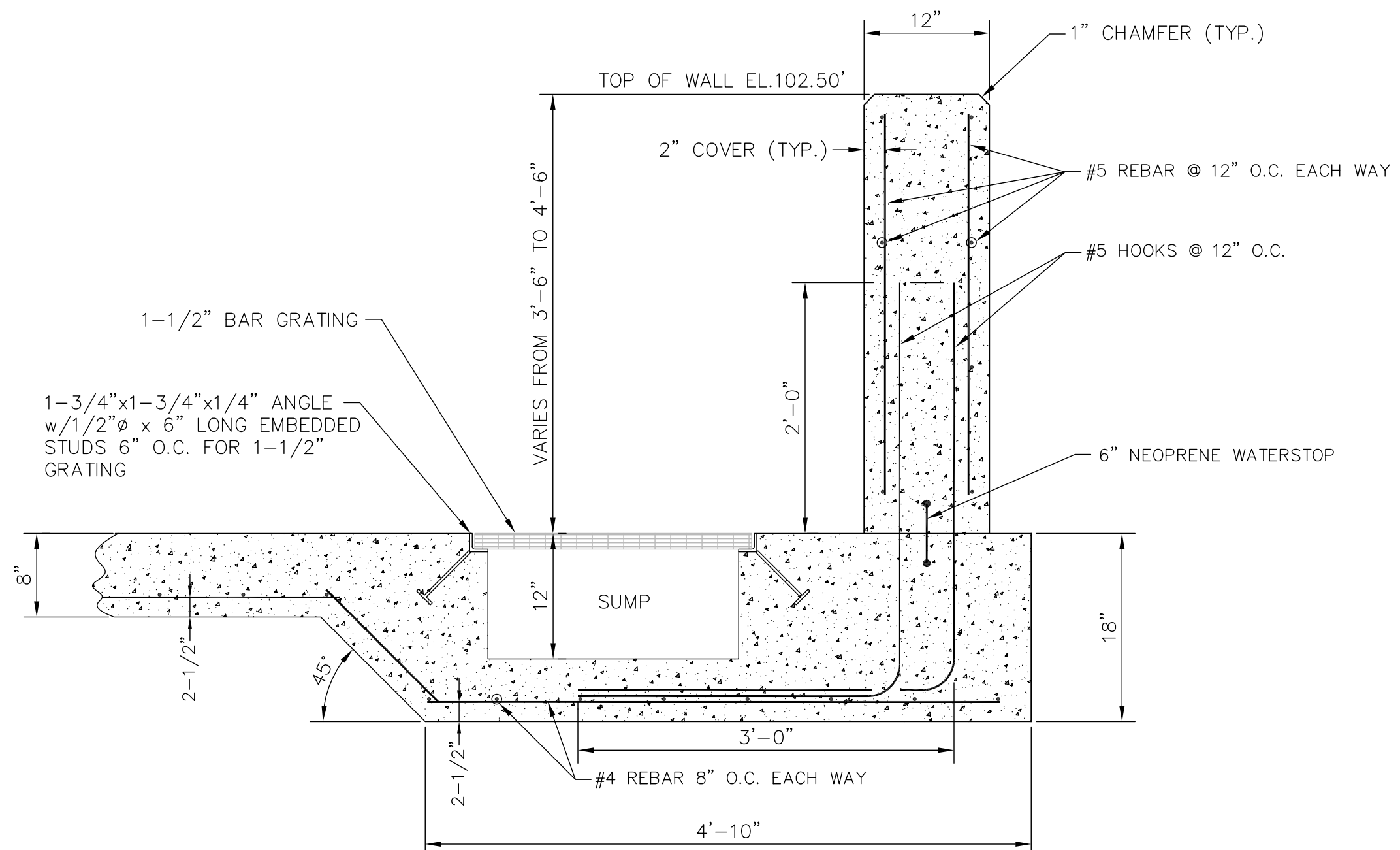
**SECTION A-A**  
TYPICAL CONTROL JOINT w/WATERSTOP  
SCALE: 1" = 1'-0"



**SECTION B-B**  
TYPICAL WALL DETAIL w/WATERSTOP  
SCALE: 1" = 1'-0"



**PLAN**  
TYPICAL WALL CORNER & INTERSECTION  
SCALE: 1" = 1'-0"



**SECTION C-C**  
TYPICAL WALL DETAIL @ SUMP w/WATERSTOP  
SCALE: 1" = 1'-0"

EXISTING CONCRETE SLAB ELEV. 100.00' ASSUMED, "SAWCUT EXISTING SLAB BACK 2"+/- TO EXPOSE CLEAN EDGE AND APPLY GLUE ON WATERSTOP TO FOLD INTO NEW SLAB".

**NOTES:**

- 28 DAY COMPRESSIVE STRENGTH FOR ALL CONCRETE SHALL BE Fc 4,000 PSI.
- PROVIDE 3/4" MAXIMUM AGGREGATE AND 4-6% AIR ENTRAINMENT.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- SLAB SURFACES SHALL BE STEEL TROWELED. FORMED SURFACES SHALL HAVE THE HOLES PATCHED.
- CURE SLAB SURFACES WITH WET CURE FOR MINIMUM 7 DAYS. AFTER CURING PERIOD, APPLY SURFACE HARDENER.
- SAWCUT CONTROL JOINTS WITHIN 24 HOURS OF PLACING CONCRETE. FILL JOINTS WITH SEALANT EQUAL TO EPOXY.COM PRODUCT 964 POLYSULFIDE.
- WATERSTOPS TO BE NEOPRENE WATERSTOPS OF SIZE INDICATED ON DRAWING.
- TEST CONCRETE A MINIMUM OF EACH DAY OR EACH 100 CU. YDS. TEST FOR TEMPERATURE, SLUMP AND AIR CONTENT. MAKE FOUR TEST CYLINDERS PER TEST AND TEST COMPRESSIVE STRENGTH AT 7, 14 AND 28 DAYS. HOLD ONE CYLINDER IN RESERVE.
- REMOVE ALL TOPSOIL AND DELETERIOUS MATERIALS TO A MINIMUM DEPTH OF 16" BELOW SLAB AND PROVIDE CRUSHED GRAVEL COMPACTED TO 95% DENSITY. MINIMUM ALLOWABLE BEARING PRESSURE ON BACKFILLED MATERIALS SHALL BE 2500 PSF.

NOTE:

REV.	DESCRIPTION	DRAWN BY	DATE	APPR. BY
0	ISSUED FOR CONSTRUCTION	K.M.C.	1/2/14	P.T.W.
D	PROPOSED - REVISED LOCATIONS FOR 3/4" PLATES	K.M.C.	7/22/13	P.T.W.
C	PROPOSED REVISED PER SCS ENGINEERS REVIEW	K.M.C.	4/17/13	P.T.W.
B	PROPOSED REVISED - TOP OF WALL EL. 102.50'	K.M.C.	3/4/13	P.T.W.
A	PROPOSED	K.M.C.	1/2/13	P.T.W.

**CleanHarbors**  
BARTOW  
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DRAWN	CHECKED	SCALE	DATE
K.M.C.	P.T.W.	AS NOTED	09/10/12

TITLE	64BW5600500
CLEAN HARBORS FLORIDA, LLC 170 BARTOW MUNICIPAL AIRPORT BARTOW, FLORIDA 33830 CONCRETE SLAB MIX TUB AREA - LAYOUT & DETAILS	
DRAWING NO.	64BW-5600-500
REV.	0