

TRANSMITTAL

To: Wenger Excavating, Inc./ Jeff Gaul/Gjorgi Kondev Date: 2/25/2014

From: Frederick P Werner

Re: 2013 Levee Infrastructure Improvement Project Date Submitted: 2/25/2014

WE ARE SENDING YOU:

☒ ATTACHED ☐ DRAWINGS ☒ SHOP DRAWINGS/ SUBMITTAL ☐ CONTRACTS ☐ CHANGE ORDER

Notes: Lindsay Concrete Precast Slab Top-, **APPROVED**,
USF Fabrication Inc. Aluminum Hatches-, **APPROVED**

Submittals have been reviewed with the following exceptions:

SUBMITTAL/ SHOP DRAWING REVIEW

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. NOTHING HERE IN AUTHORIZES ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; PERFORMANCE; SELECTING FABRICATION PROCESS AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS OR HER WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

BY _____ FPW
DATE 2/25/2014

(x) APPROVED
() APPROVED AS NOTED

() NOT APPROVED
() REVISE/RESUBMIT

CC: File, RPR

SIGNED: 

4767

8158

Phone 330-837-

Fax 330-828-



26 N. Cochra St. • P.O. Box 499 • Dalton, Ohio 44618

City of Massillon – Division of Engineering
Municipal Government Annex
City Administration Building
Massillon, Ohio 44646

2/19/14

Attn: Fred Werner

Re: Proposed lowering of SCR-2

Mr. Werner,

Wenger Excavating would like to propose lowering SCR-2 to within 12" +/- of existing grade. Concrete Cutting of Akron will make a full depth horizontal saw cut at ground level. Wenger will remove and dispose of section of concrete and set with Conseal a HS-20 Precast Slab Top. The slab top shall have two 30" x 30" aluminum hatches cast in. See Lindsay Concrete Submittal.

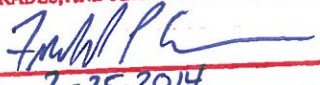
All above work shall be considered part of the Sanitary Siphon Chamber Rehab Work Item with No additional cost to the City of Massillon.

If you have any questions please call me at (330)495-6010

SUBMITTAL SHOP DRAWING REVIEW

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CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

BY 
DATE 2-25-2014

Sincerely,
George Bosu
Project Manager
Wenger Excavating, Inc.

☒ APPROVED
☐ APPROVED AS NOTED

☐ NOT APPROVED
☐ REVISE/RESUBMIT

"An Equal Opportunity Employer"



6845 ERIE AVE. N.W. BOX 578 • CANAL FULTON, OHIO 44614 • (330) 854-4511
WWW.LINDSAYCONCRETE.COM

Proposal For:

Lindsay Concrete Products, Inc.
P.O. Box 578
Canal Fulton, Ohio 44614
(330) 854-4511

Job:

SCR#1 (5'x5') & SCR#2 (L-shape) Lids – Massillon, OH

Project Engineer:

City of Massillon Engineering Department

Contractor:

Wenger Excavating, Inc.
(330) 837-4767

Components:

13'-2" x 12' x 8" L-shaped lid
Design Calcs
Hatch

SUBMITTAL SHOP DRAWING REVIEW

5' x 5' x 6" Lid

Hatch

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Office Point of Contact:

Tony Hamric

(330) 854-4511

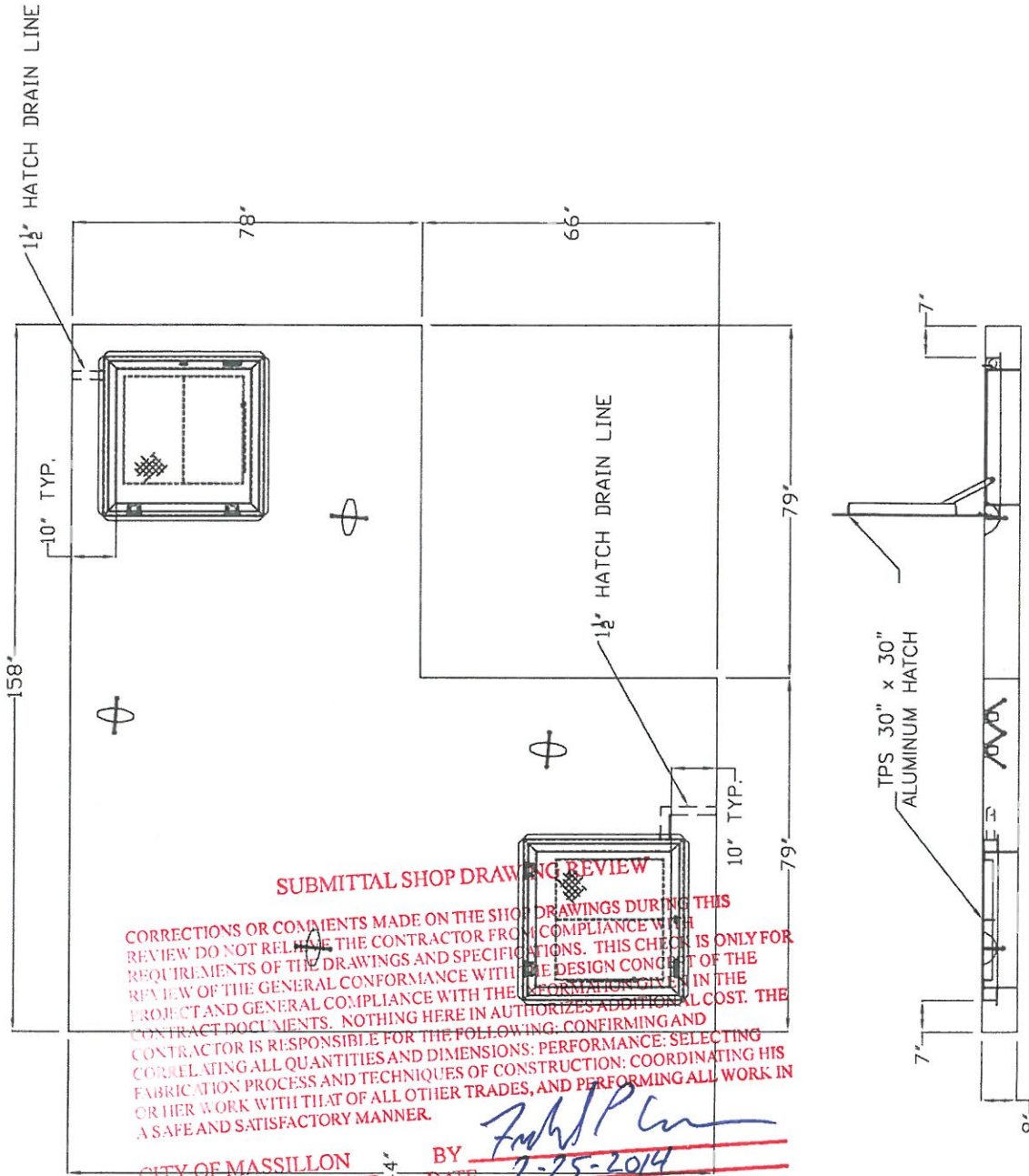
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151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

BY [Signature] DATE 2/25/2014 Date of Submittal: 02/18/14

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SUBMITTAL SHOP DRAWING REVIEW

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CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

BY Fred P. Lee
DATE 2-25-2014

(K)
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APPROVED
APPROVED AS NOTED

()

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NOTES:

- ALL CONCRETE 5,000 PSI @ 28 DAYS.
- (4) UTILITY LIFTS
- ESTIMATED WT: 12,300 LBS

REVISIONS		DATE		BY	
NO.	DATE	NO.	DATE	NO.	DATE
1		2		3	
4		5		6	
7					

Wenger Exc. - MASSILLON LEVEE

12' x 13'-2" 1" SHAPED TOP SLAB

DATE 2/11/14

NTS 131495

Telephone 215-855-8713

FAX 215-855-8714

GARY K. MUNKELT & ASSOCIATESConsulting Engineers
Precast Concrete, Structural, Civil

1180 Welsh Rd. Suite 190 North Wales, PA 19454

PROJECT: DESIGN PRECAST CONCRETE LSHAPED TOP
SLAB 12'-0" x 13'-2" OD**CLIENT:** LINDSAY CONCRETE PRODUCTS CO., INC.
CANAL FULTON, OH**LOCATION:** MASSILLON LEVEE PROJECT SCR-#2**SUBMITTAL SHOP DRAWING REVIEW**

TABLE OF CONTENTS

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Title
Specifications
Description of Product
Calculations
Reinforcing Drawing

Sheet
2
3
4
5

CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646BY [Signature]
DATE 2-25-2014

(☒) APPROVED
() GKM Job #140169
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Date: 02/06/14

GENERAL SPECIFICATIONS

1. Concrete shall be designed to obtain a strength of 5,000 psi in 28 days. Material shall meet requirements of ACI 318.
2. Reinforcing steel shall be Grade 60 (obtain yield strength of 60,000 psi) and meet requirements of ASTM A615.
3. Weight of Concrete – 150 lb/ft³
4. Weight of Soil – 120 lb/ft³
5. 300 psf live load at surface
6. Ground water table is at grade.
7. Top slab is at grade.
8. Soil is assumed to have properties such that $K_a = 0.33$

REFERENCES

1. ASTM C 857-01 titled "Standard Practice for Minimum Structural Design Loading for Underground Precast Concrete Utility Structures".
2. ACI 318-08 titled "Building Code Requirements for Reinforced Concrete".
3. AASHTO 17th Edition (2002) "Standard Specification for Highway Bridges".
4. McGregor "Reinforced Concrete Mechanics & Design" 2006 McGraw-Hill
5. ASTM C 858-04 titled "Standard Specification for Underground Precast Concrete Utility Structures"

SUBMITTAL SHOP DRAWING REVIEW

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BY
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GARY K. MUNKELT & ASSOC. Structural Engineers

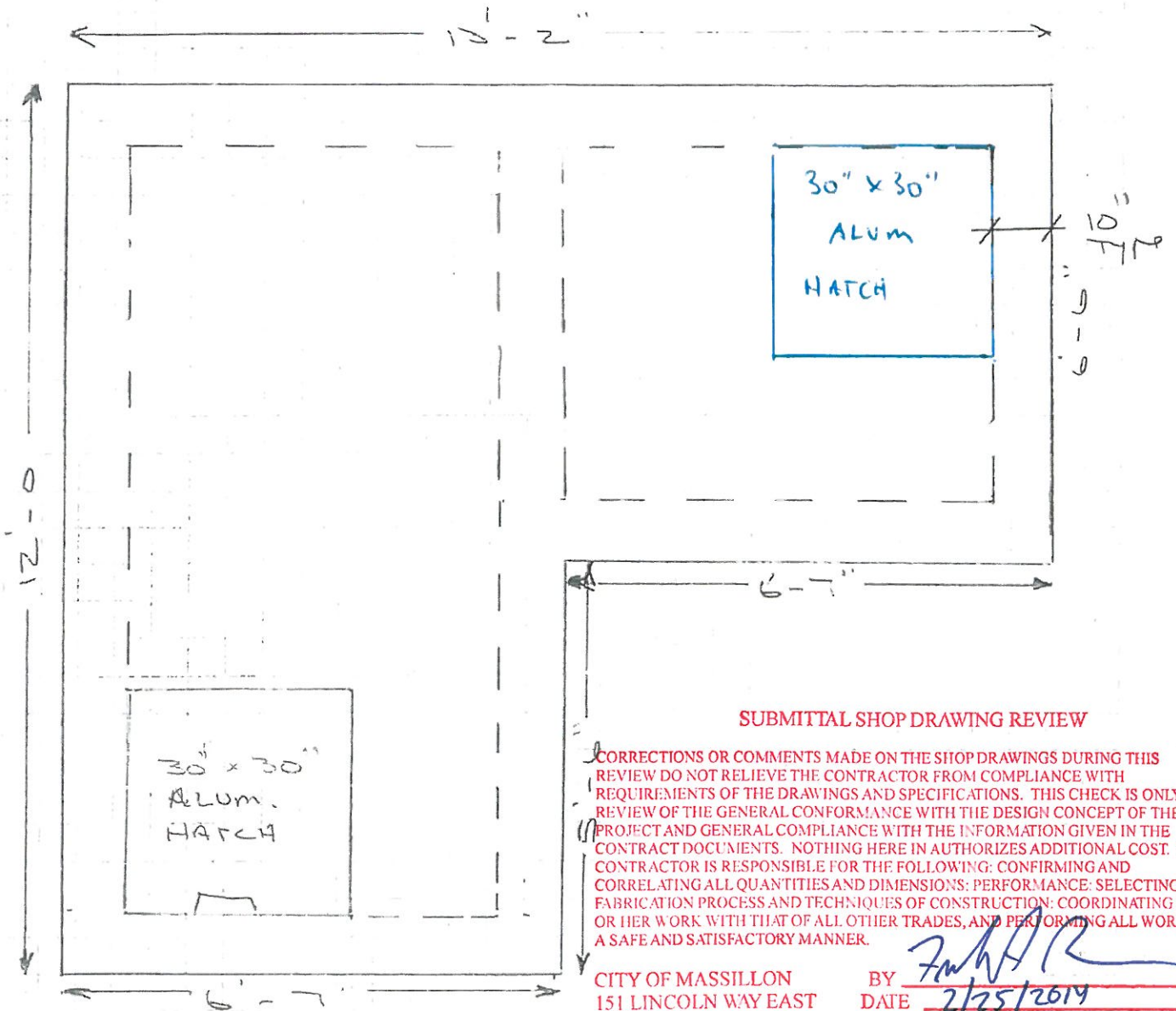


ej

ejco.com
800 626 4653

3 of 5

MASSILLON LEVEE PROJECT
PROPOSED SLAB TOP FOR
SCR - #2



SUBMITTAL SHOP DRAWING REVIEW

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CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

BY 7/25/2014
DATE 2/25/2014

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PROBLEM: DESIGN TOP SLAB

LOADS Live load 300 psf

$$\gamma_{\text{concrete}} = 150 \text{ pcf}$$

2.2 ft slab section between opening & long run supports live & dead loads on section & 1/2 opening

Use ACI Load Factors 1.6L + 1.2D

$$W_{DL} = 1.2 \times 0.15 \text{ Kcf} \times 8/12 \text{ ft} \times (2.2 \text{ ft wide beam} + 1/2(6.5 \text{ region} + 2.5' \text{ opening})) = 1.16 \text{ Klf}$$

$$W_{LL} = 1.6 \times 0.30 \text{ Ksf} \times (2.2 \text{ ft wide beam} + 1/2(6.5 \text{ region} + 2.5' \text{ opening})) = 3.22 \text{ Klf}$$

$$\Sigma = 4.38 \text{ Klf}$$

APPLIED MOMENT AND SHEAR – Span = 5.75 ft cl to cl walls

$$M_u = 0.125 \times 4.38 \text{ Klf} \times (5.75 \text{ ft})^2 = 18.1 \text{ K-ft}$$

$$V_u = (4.38 \text{ Klf} \times 5.0 \text{ ft}) / 2 = 10.95 \text{ K}$$

ALLOWABLE MOMENT AND SHEAR

$$f_y = 60 \text{ Ksi}$$

$$b = 26 \text{ in}$$

Use: #5 @ 6" ocev

$$f'_c = 5 \text{ Ksi}$$

$$d = 8 - 1.5 - 5/16 = 6.19 \text{ in}$$

$$A_s = 1.33 \text{ in}^2$$

$$a = (1.33 \times 60) / (0.85 \times 26 \times 5) = 0.722 \text{ in}$$

$$\Phi M_n = (0.9 \times 1.33 \times 60 (6.19 - 0.722/2)) / 12 = 34.9 \text{ K-ft}$$

$$\Phi V_n = (0.75 \times 2 \sqrt{5,000} \times 26 \times 6.19) / 1,000 = 17.0 \text{ K}$$

$$A_s \text{ minimum for T\&S} = 0.0018 \times 12 \times 8 = 0.17 \text{ in}^2$$

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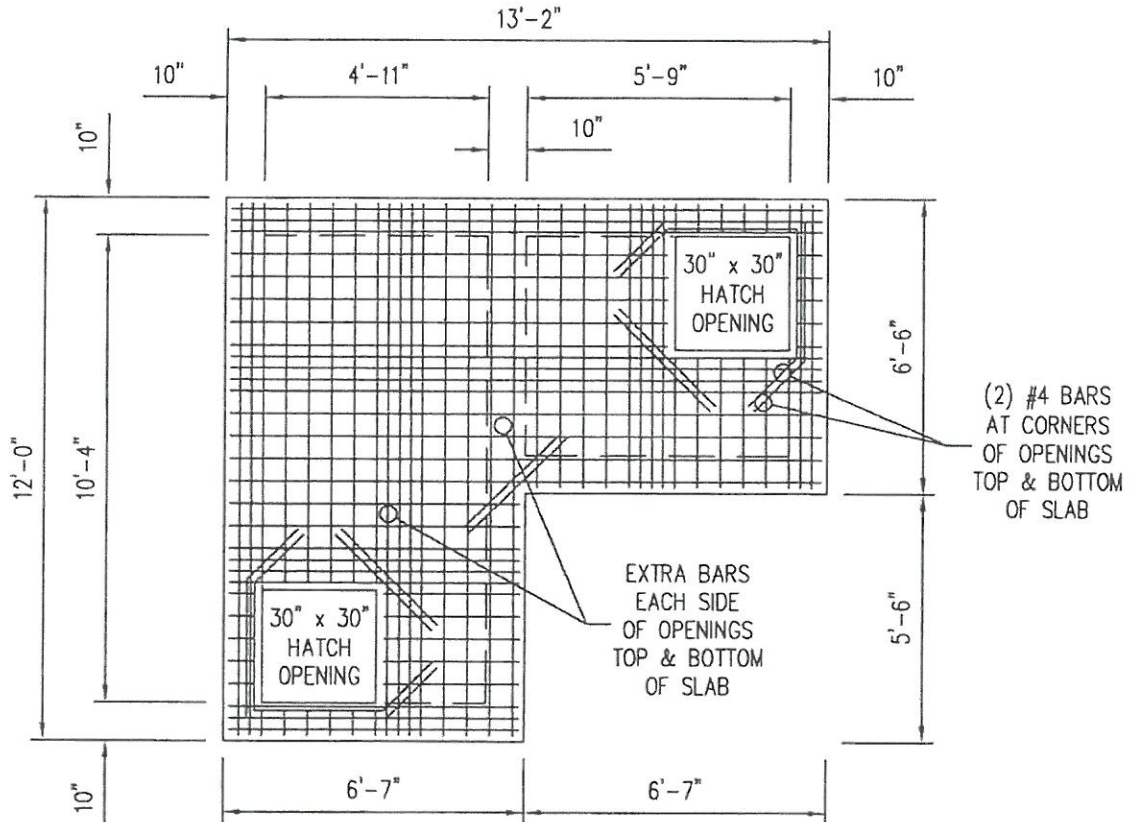
CITY OF MASSILLON
 151 LINCOLN WAY EAST
 MASSILLON, OHIO 44646

BY _____
 DATE 2/25/2014

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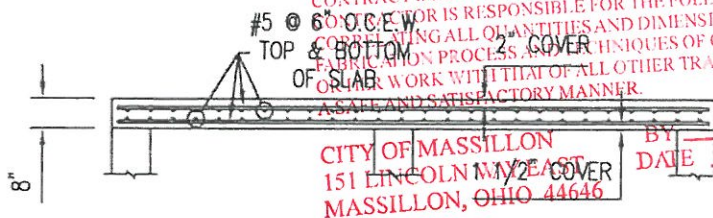
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PLAN VIEW

SUBMITTAL SHOP DRAWING REVIEW

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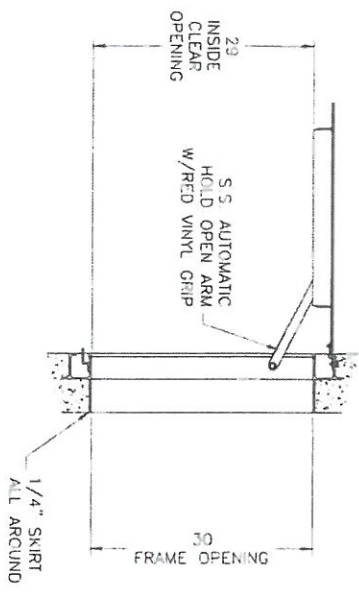
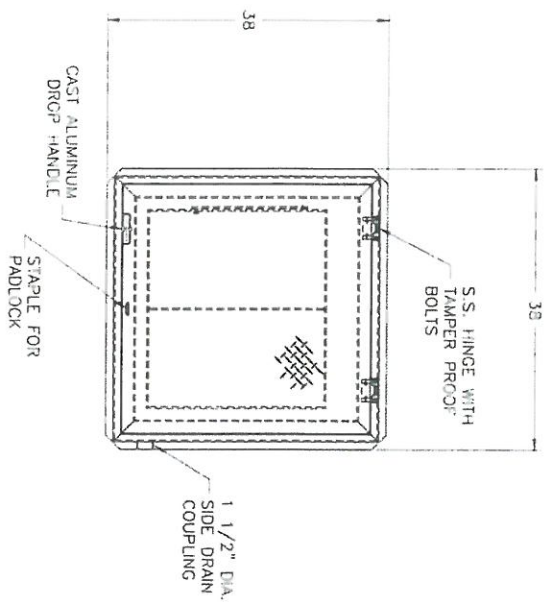


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SECTION VIEW

MATERIALS:	REINFORCING STEEL DRAWING	DESIGNED FOR:
CONCRETE $f_c = 5,000$ PSI STEEL REBAR $f_y = 60,000$ PSI	L-SHAPED TOP SLAB 12'-0" x 13'-2"	300 PSF LIVE LOAD AT SURFACE TOP OF TOP SLAB IS AT GRADE



- SELECTED FEATURES**
1. SIDE DRAIN APPLICATION
 2. SKIRT FOR 8" DEEP SLAB
 3. BITUMINOUS COATING

- NOTES:**
1. MATERIAL: ALUMINUM
 2. FINISH: MILL
 3. LOADING: 300 LBS. PSF
 4. 316 SS NUTS & BOLTS
 5. AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH BITUMINOUS COATING
 6. APPROX HATCH WT- 93.22 LBS.

SUBMITTAL SHEET DRAWING REVIEW

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CITY OF MASSILLON
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MASSILLON, OHIO 44646

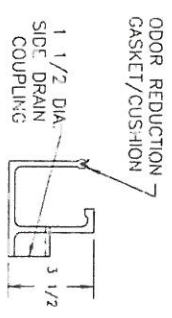
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BY *[Signature]*
DATE 2-25-2014

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HAILEAH, FLORIDA

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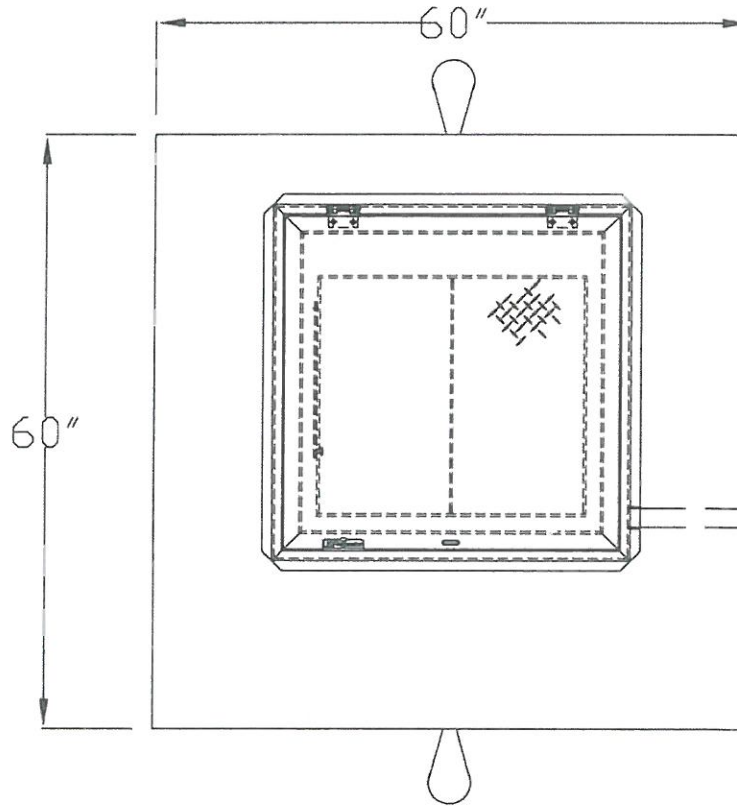
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M		COPYRIGHT 1994 U.S.F. FABRICATION, INC. ALL RIGHTS RESERVED	
BREAK ALL SHARP CORNERS & EDGES TO 0.015" RADIUS		SUBMIT	
TOLERANCES UNLESS OTHERWISE SPECIFIED		HATCH TPS 30 X 30 ALUM	
FRACTIONAL		SCALE	DATE 02/12/14
1/16 = ± 1/32		1:16	
1/32 = ± 1/64			
DWG. BY	CHK. BY	DWG. #	SHEET
WJL/OTG/2.0	B	37-139224457	1 OF 1



1/4" EXTRUDED TROUGH SECTION W/INTERAL CONT. ANCHOR FLANGE & GROOVE FOR GASKET/CUSHION FRAME MAT'L. ALUMINUM 6063-T5

FRAME DETAIL

LET	REVISIONS	DATE	BY



TPS 30" x 30"
ALUMINUM HATCH

1 1/2" HATCH
DRAIN LINE

SUBMITTAL SHOP DRAWING REVIEW

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CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

BY [Signature]
DATE 2-25-2014

NOTES:

- (X) ALL CONCRETE 5,000 PSI @ 28 DAYS.
- (2) SS CABLES

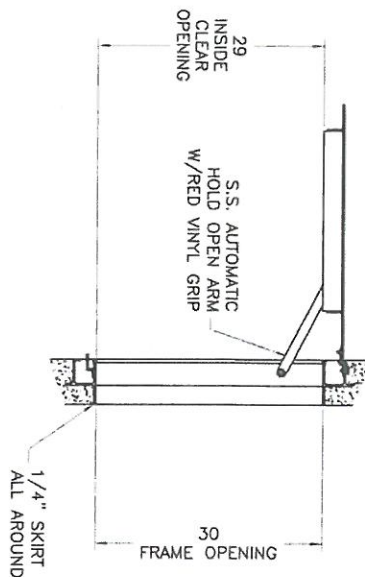
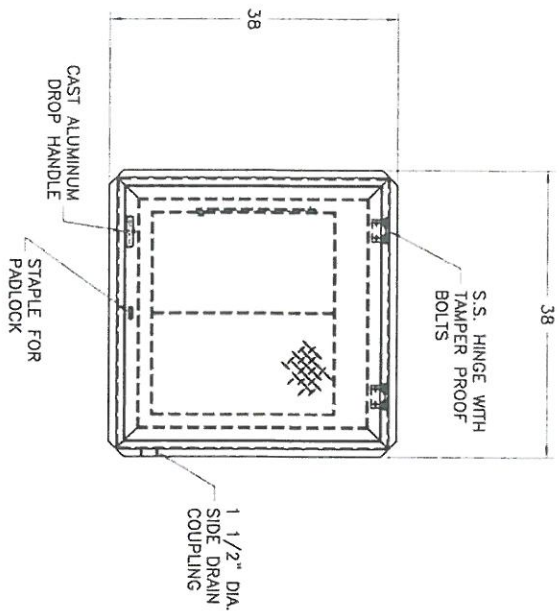
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REVISIONS			Lindsay PRECAST	
NO.	DATE	BY		
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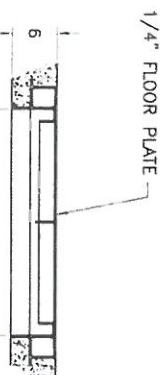
DRAWN BY: TJS CHECKED BY: TH SCALE: DATE: 2/10/14 ENG. NO: 131495



- SELECTED FEATURES**
1. SIDE DRAIN APPLICATION
 2. SKIRT FOR 6" DEEP SLAB
 3. BITUMINOUS COATING

- NOTES:**
1. MATERIAL: ALUMINUM
 2. FINISH: MILL
 3. LOADING: 300 LBS PSF
 4. 3/16 SS NUTS & BOLTS
 5. AREA OF FRAME IN CONTACT WITH CONCRETE TO BE PAINTED WITH BITUMINOUS COATING
 6. APPROX. HATCH WT: 87.01 LBS.

SEMI-ISO-8000 (REVISIONS RELIEF)



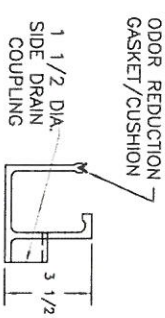
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CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

APPROVED
APPROVED AS NOTED

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REVISE & RESUBMIT

Handwritten signature and date:
2-25-2014



**1/4\"/>
W/INTEGRAL CONT. ANCHOR FLANGE
& GROOVE FOR GASKET/CUSHION
FRAME MAT'L: ALUMINUM 6063-T5**

FRAME DETAIL

U.S.F. FABRICATION INC.

HALEAH, FL

HATCH TPS 30 X 30 ALUM

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M
BREAK ALL SHARP CORNERS & EDGES TO 0.01
TOLERANCES UNLESS OTHERWISE SPECIFIED
1/16 = ± 1/32
1/32 = ± 1/64

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OWN BY: Wizard2.0	SCALE: 1:24	QUOTED	DATE: 01/22/14
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			REV: 0

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