

SHOP DRAWING TRANSMITTAL

DATE RETURNED: 3/27/2015	DATE SENT: 3/20/2015	PAGE <u>1</u> of <u>1</u>
---------------------------------	-----------------------------	----------------------------------

TO/FROM: TEL.# 518-453-4734 CHA III WINNERS CIRCLE ALBANY, NY 12205 ATTN:	TO/FROM: TEL.# () MARK SARGENT PROJECT MANAGER - STRUCTURES 1 NATIONAL LIFE DRIVE MONTPELIER, VT 05633-5001
--	---

CHA PROJECT No.20615 CONTRACT No. BRF 3000(19) TITLE: RUTLAND CITY (RIPLEY ROAD)	
---	--

SHOP DRAWING DATA: (TO BE FILLED IN BY CONTRACTOR) TOPIC: CONCRETE CLASS B (DRAINAGE STRUCTURES) SPECIFICATION: 541.25	
<i>DO NOT MIX SUBMISSIONS FROM DIFFERENT SPEC DIVISIONS ON THIS FORM. FILL OUT NEW FORM EACH TIME!</i>	FOR CHA'S RECEIVED STAMP.

THE ABOVE NAMED CONTRACTOR HAS EVALUATED EACH ITEM IDENTIFIED IN THIS TRANSMITTAL & CERTIFIES IT TO BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

****THIS SUBMITTAL IS NOT BEING PRESENTED AS A SUBSTITUTION****

CERTIFIED BY: _____ **TITLE:** _____ **DATE:** _____

ID NUMBER	QUANTITY		DESCRIPTION OF ITEM(S) BEING SUBMITTED <small>(Reference specification section and/or drawing number for each item being submitted)</small>	ENGINEER'S REVIEW STATUS
	SENT	RETURN		
541.25-01	1	1	Concrete Class B (Drainage Structures)	MCN

NET = NO EXCEPTIONS TAKEN **MCN = MAKE CORRECTIONS NOTED** **R&R = REVISE AND RESUBMIT**
REJ = REJECTED **SSI = SUBMIT SPECIFIED ITEM** **NR = NOT REVIEWED**
***RESUBMIT REQUIRED IF REVIEW STATUS IS R&R, REJ, SSI**

CONTRACTOR'S COMMENTS: 	Engineer's Comments: Revise DI-7A's pipe invert to 515.32.
---------------------------------------	---

(FOR ENGINEER'S INTERNAL USE ONLY)

Forwarded To: <u>DALE GOZALKOWSKI</u>	DUE BACK TO CONTRACTOR: _____
Reviewed By: <u>JAMES RASHFORD</u>	DATE SENT: <u>3/20/2015</u>
Returned to Contractor By: <u>DALE GOZALKOWSKI</u>	DATE RETURNED: <u>3/27/2015</u>

(ENTER DATE ABOVE)



Issued 03/16/15
Respond by 03/30/15

Rutland City BRF 3000 (2014036)
SUBMITTAL 35

To
Timothy Pockette, PE

Topic 541.25 Concrete, Class B (Drainage Structures)
Status For Approval
Spec section 541.25
Responsibility (19) Ripley Road
Reference Precast Drainage Structures
Sent to approver 3/16/15
Required from approver 3/30/15

Message Tim,
We request to provide these structures as precast by SD Ireland Companies.
Thanks,
Volker

From
Volker H.D. Burkowski

Signed by Date 3/16/15

Proceed as Indicated _____ Date _____
Owner Authorized Representative

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



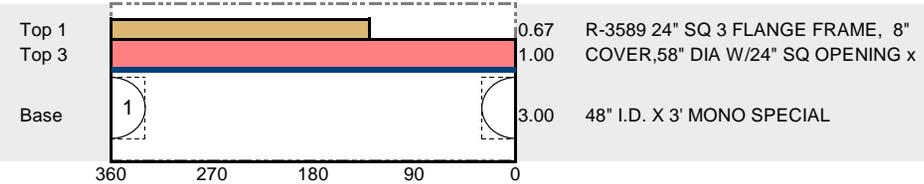
DATE 3/27/2015 BY James Rashford

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
	1900000	1	need heat dates	0.00	0
	2000000	0.7	TRUCKING, FLAT BED	0.00	0
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
Top 1	n358900	1	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	250
Top 3	0548502	1	COVER,58" DIA W/24" SQ OPENING x 12" HIGH	0.43	1.700
Base	0548030	1	48" I.D. X 3' MONO SPECIAL	1.06	4.246
Misc 1	1403100	1	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	1
Acces	20624L	1	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	14
	1204218	1	ADAPTOR,NPC-CGA18	0.00	1
	1211180	8	BAND,KOR-N-SEAL 1-180	0.00	1
Structure Totals				1.49	6,422

Inside Area View

Rim to Invert	4.16'	Precast Height	4.67'	Wall	5.00"
Less Casting	4.16'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	5.34'		
Adjustment (Brick/Mort.)	0.49				

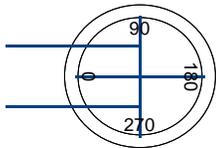


Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	532.63							
(1)	528.47	0	18 HDPE	20624L	24	24	9	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 48" I.D. X 3' MONO SPECIAL
 Product ID: 0548030S
 Item: Base Step Location: 90

18 HDPE/20624L
 H 24" / W 24.00"
 Over: .00
 Up: 9" / Ang 0



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015 BY James Rashford

Job: 15791 Customer: CHAMPLAIN CONST INC
 Job Name Rutland City BRF 3000 (19) Ripley

Structure Code: DI-2
 Station:

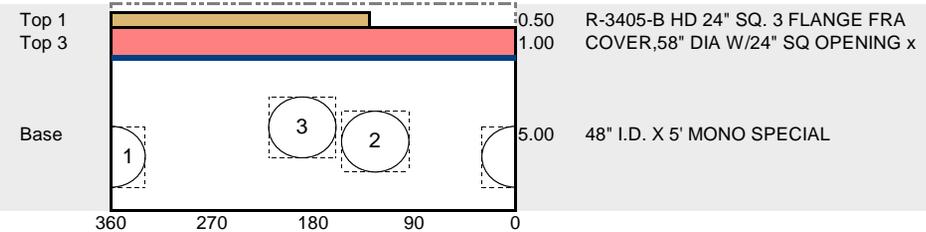
Type: Catch Basin
 Description: 48" I.D. Catch Basin

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
	2000000	0.7	TRUCKING, FLAT BED	0.00	0
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
	1900000	1	need heat dates	0.00	0
Top 3	0548502	1	COVER,58" DIA W/24" SQ OPENING x 12" HIGH	0.43	1,700
Top 1	n340500	1	R-3405-B HD 24" SQ. 3 FLANGE FRAME, 6" HIGH	0.00	215
Base	0548050	1	48" I.D. X 5' MONO SPECIAL	1.40	5,592
Misc 1	1403100	1	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	1
Acces	20624L	3	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	42
	1204218	3	ADAPTOR,NPC-CGA18	0.00	2
	1211180	16	BAND,KOR-N-SEAL 1-180	0.00	1
Structure Totals				1.83	7,763

Inside Area View

Rim to Invert	5.77'	Precast Height	6.50'	Wall	5.00"
Less Casting	5.77'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	7.17'		
Adjustment (Brick/Mort.)	0.27				



Elevations

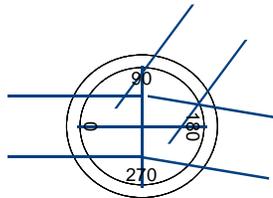
Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	525.96							
(1)	520.19	0	18 HDPE	20624L	24	24	9	Base
(2)	520.69	125	18 HDPE	20624L	24	24	15	Base
(3)	521.16	190	18 HDPE	20624L	24	24	21	Base
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 48" I.D. X 5' MONO SPECIAL
 Product ID: 0548050S
 Item: Base

Step Location: 90

18 HDPE/20624L
 H 24" / W 24.00"
 Over: 52.33
 Up: 15" / Ang 125

18 HDPE/20624L
 H 24" / W 24.00"
 Over: .00
 Up: 9" / Ang 0



18 HDPE/20624L
 H 24" / W 24.00"
 Over: 79.55
 Up: 21" / Ang 190

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015 BY James Rashford

Job: 15791 Customer: CHAMPLAIN CONST INC
 Job Name Rutland City BRF 3000 (19) Ripley

Structure Code: DI-2A
 Station:

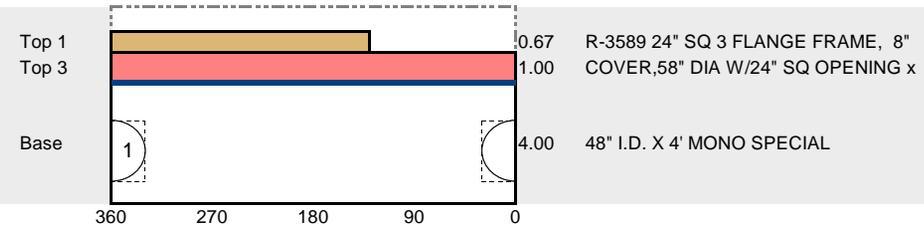
Type: Catch Basin
 Description: 48" I.D. Catch Basin

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
	1900000	1	need heat dates	0.00	0
	2000000	0.7	TRUCKING, FLAT BED	0.00	0
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
Top 3	0548502	1	COVER,58" DIA W/24" SQ OPENING x 12" HIGH	0.43	1,700
Top 1	n358900	1	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	250
Base	0548040	1	48" I.D. X 4' MONO SPECIAL	1.28	5,113
Misc 1	1403100	1	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	1
Acces	20624L	1	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	14
	1204218	1	ADAPTOR,NPC-CGA18	0.00	1
	1211180	8	BAND,KOR-N-SEAL 1-180	0.00	1
Structure Totals				1.71	7,289

Inside Area View

Rim to Invert	5.47'	Precast Height	5.67'	Wall	5.00"
Less Casting	5.47'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	6.34'		
Adjustment (Brick/Mort.)	0.80				

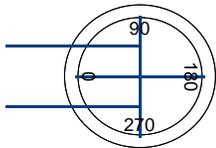


Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	526.47							
(1)	521	0	18 HDPE	20624L	24	24	9	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 48" I.D. X 4' MONO SPECIAL
 Product ID: 0548040S
 Item: Base Step Location: 90

18 HDPE/20624L
 H 24" / W 24.00"
 Over: .00
 Up: 9" / Ang 0



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



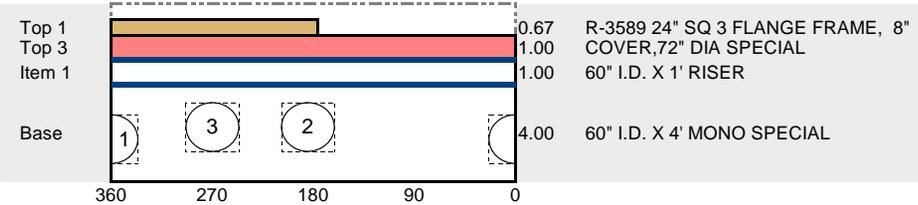
DATE 3/27/2015 BY James Rashford

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
	1900000	1	need heat dates	0.00	0
Rim	n340530	2	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	420
	2000000	0.7	TRUCKING, FLAT BED	0.00	0
Top 1	n358900	2	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	500
Top 3	0560620	1	COVER,72" DIA SPECIAL w/24"x48" opening	1.11	4,450
Item 1	0560601	1	60" I.D. X 1' RISER	0.32	1,295
Base	0560040	1	60" I.D. X 4' MONO SPECIAL	1.81	7,224
Acces	20624L	3	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	42
	1204218	3	ADAPTOR,NPC-CGA18	0.00	2
	1403100	3	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	4
	1211180	16	BAND,KOR-N-SEAL 1-180	0.00	1
Structure Totals				3.24	13,938

Inside Area View

Rim to Invert	6.30'	Precast Height	6.67'	Wall	6.00"
Less Casting	6.30'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	7.34'		
Adjustment (Brick/Mort.)	0.63				



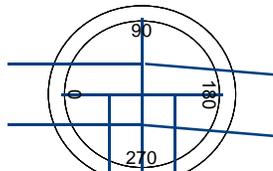
Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	525.74							
(1)	519.44	0	18 HDPE	20624L	24	24	9	Base
(2)	519.94	185	18 HDPE	20624L	24	24	15	Base
(3)	519.94	270	18 HDPE	20624L	24	24	15	Base
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 60" I.D. X 4' MONO SPECIAL
 Product ID: 0560040S
 Item: Base

Step Location: 90

18 HDPE/20624L
 H 24" / W 24.00"
 Over: .00
 Up: 9" / Ang 0



18 HDPE/20624L
 H 24" / W 24.00"
 Over: 96.82
 Up: 15" / Ang 185

18 HDPE/20624L
 H 24" / W 24.00"
 Over: 141.30
 Up: 15" / Ang 270

- NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED
 REJECTED REVISE AND RESUBMIT
 SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015 BY James Rashford

Job: 15791 Customer: CHAMPLAIN CONST INC
 Job Name Rutland City BRF 3000 (19) Ripley

Structure Code: DI-3A
 Station:

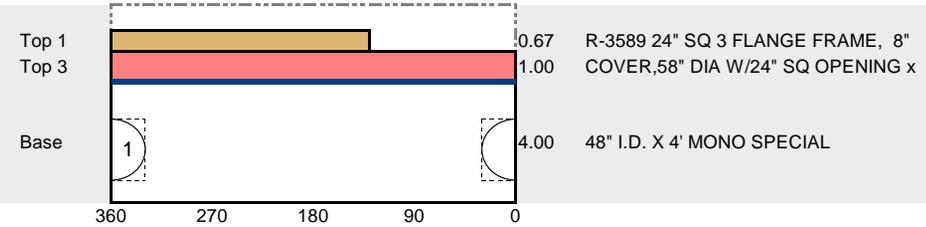
Type: Catch Basin
 Description: 48" I.D. Catch Basin

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
	1900000	1	need heat date	0.00	0
	2000000	0.7	TRUCKING, FLAT BED	0.00	0
Top 3	0548502	1	COVER,58" DIA W/24" SQ OPENING x 12" HIGH	0.43	1,700
Top 1	n358900	1	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	250
Base	0548040	1	48" I.D. X 4' MONO SPECIAL	1.28	5,113
Misc 1	1403100	1	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	1
Acces	20624L	1	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	14
	1204218	1	ADAPTOR,NPC-CGA18	0.00	1
	1211180	8	BAND,KOR-N-SEAL 1-180	0.00	1
Structure Totals				1.71	7,289

Inside Area View

Rim to Invert	5.50'	Precast Height	5.67'	Wall	5.00"
Less Casting	5.50'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	6.34'		
Adjustment (Brick/Mort.)	0.83				

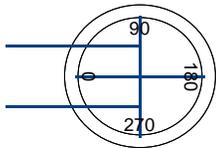


Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	520.5	0	18 HDPE	20624L	24	24	9	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 48" I.D. X 4' MONO SPECIAL
 Product ID: 0548040S
 Item: Base Step Location: 90

18 HDPE/20624L
 H 24" / W 24.00"
 Over: .00
 Up: 9" / Ang 0



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015 BY James Rashford

Structure Product Detail

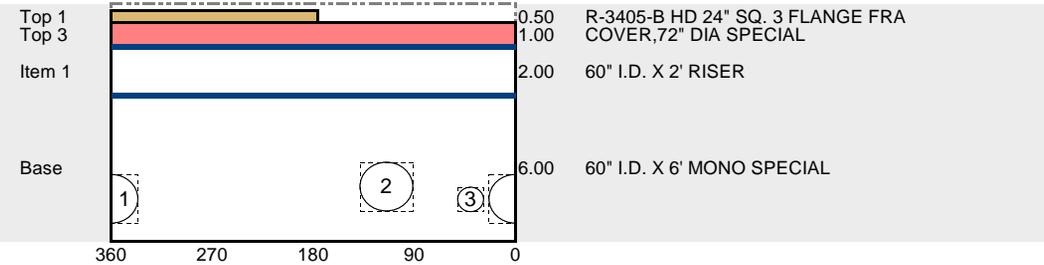
Item	Product	Qty	Product Description	Yards	Weight
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
	2000000	0.7	TRUCKING, FLAT BED	0.00	0
	1900000	1	need heat date	0.00	0
Top 3	0560620	1	COVER,72" DIA SPECIAL	1.11	4.450
Top 1	N340500	1	R-3405-B HD 24" SQ. 3 FLANGE FRAME, 6" HIGH	0.00	215
Item 1	0560602	1	60" I.D. X 2' RISER	0.65	2.590
Base	0560060	1	60" I.D. X 6' MONO SPECIAL	2.49	9.958
Acces	40612C	1	BOOT,KOR-N-SEAL 12C-(1-128 BAND)C12-2-6 IPS	0.00	7
Acces	20624L	2	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	28
	1204218	2	ADAPTOR,NPC-CGA18	0.00	1
	1403100	3	MASTIC.CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	4
	1211180	12	BAND,KOR-N-SEAL 1-180	0.00	1

Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	527.19							
(1)	518.44	0	18 HDPE	20624L	24	24	9	Base
(2)	518.94	115	18 HDPE	20624L	24	24	15	Base
(3)	518.91	40	6 HDPE	40612CWP	12	12	15	Base
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Inside Area View

Rim to Invert	8.75'	Precast Height	9.50'	Wall	6.00"
Less Casting	8.75'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	10.17'		
Adjustment (Brick/Mort.)	0.25				

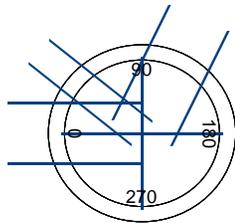


Description: 60" I.D. X 6' MONO SPECIAL
 Product ID: 0560060S
 Item: Base Step Location: 90

6 HDPE/40612CWP
 H 12" / W 12.00"
 Over: 20.93
 Up: 15" / Ang 40

18 HDPE/20624L
 H 24" / W 24.00"
 Over: 60.18
 Up: 15" / Ang 115

18 HDPE/20624L
 H 24" / W 24.00"
 Over: .00
 Up: 9" / Ang 0



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015 BY James Rashford

Structure Product Detail

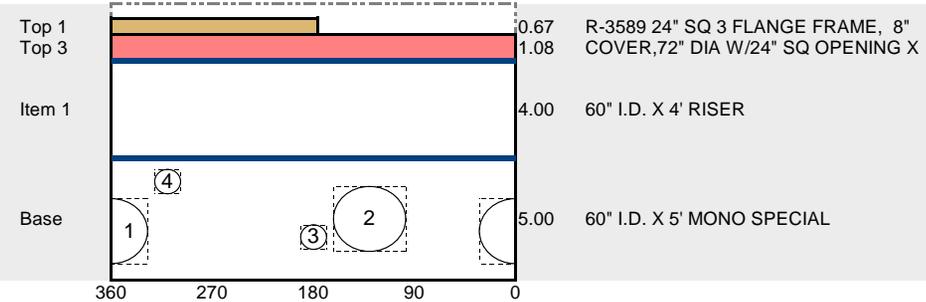
Item	Product	Qty	Product Description	Yards	Weight
	1900000	1	need heat date	0.00	0
	2000000	1	TRUCKING, FLAT BED	0.00	0
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
Top 3	0560622	1	COVER,72" DIA W/24" SQ OPENING X 13" THK	1.11	4.450
Top 1	n358900	1	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	250
Item 1	0560604	1	60" I.D. X 4' RISER	1.30	5.180
Base	0560050	1	60" I.D. X 5' MONO SPECIAL	2.06	8.258
Acces	40612C	2	BOOT,KOR-N-SEAL 12C-(1-128 BAND)C12-2-6 IPS	0.00	14
Acces	20632W	2	BOOT,KOR-N-SEAL 32WP-(4-242 BANDS)	0.00	36
	1403100	3	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	4
	1204224	2	ADAPTOR,NPC-CGA24	0.00	2

Elevations

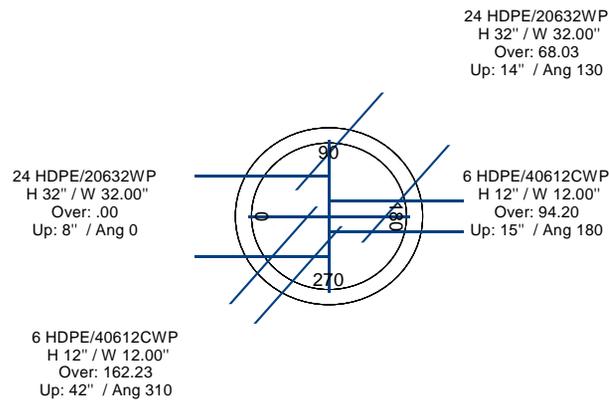
Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	522.33							
(1)	512	0	24 HDPE	20632WP	32	32	8	Base
(2)	512.5	130	24 HDPE	20632WP	32	32	14	Base
(3)	512.5	180	6 HDPE	40612CWP	12	12	15	Base
(4)	514.78	310	6 HDPE	40612CWP	12	12	42	Base
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Inside Area View

Rim to Invert	10.33'	Precast Height	10.75'	Wall	6.00"
Less Casting	10.33'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	11.42'		
Adjustment (Brick/Mort.)	0.58				



Description: 60" I.D. X 5' MONO SPECIAL
 Product ID: 0560050S
 Item: Base Step Location: 90



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



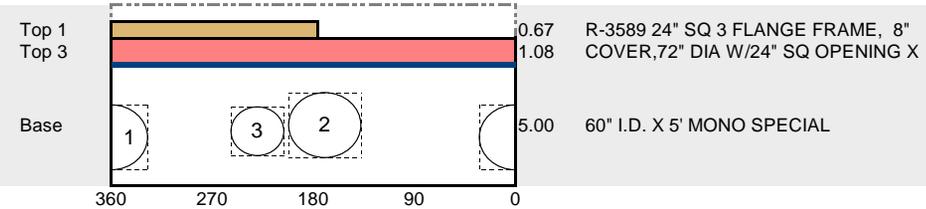
DATE 3/27/2015 BY James Rashford

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
	1900000	1	need heat date	0.00	0
	2000000	1	TRUCKING, FLAT BED	0.00	0
Top 3	0560622	1	COVER,72" DIA W/24" SQ OPENING X 13" THK	1.11	4.450
Top 1	n358900	1	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	250
Base	0560050	1	60" I.D. X 5' MONO SPECIAL	2.04	8.142
Acces	20624L	1	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	14
Acces	20632W	2	BOOT,KOR-N-SEAL 32WP-(4-242 BANDS)	0.00	36
	1204224	2	ADAPTOR,NPC-CGA24	0.00	2
	1204218	1	ADAPTOR,NPC-CGA18	0.00	1
	1403100	2	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	2

Inside Area View

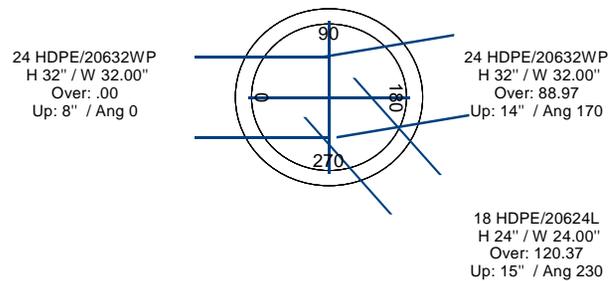
Rim to Invert	6.43'	Precast Height	6.75'	Wall	6.00"
Less Casting	6.43'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	7.42'		
Adjustment (Brick/Mort.)	0.68				



Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	513.55	0	24 HDPE	20632WP	32	32	8	Base
(2)	514.05	170	24 HDPE	20632WP	32	32	14	Base
(3)	514.05	230	18 HDPE	20624L	24	24	15	Base
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 60" I.D. X 5' MONO SPECIAL
 Product ID: 0560050S
 Item: Base Step Location: 90



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



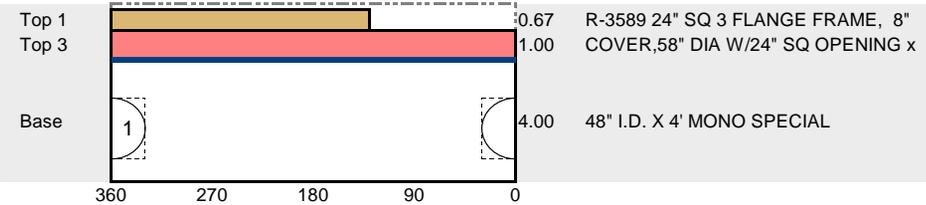
DATE 3/27/2015 BY James Rashford

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
	1900000	1	need heat date	0.00	0
	2000000	0	TRUCKING, FLAT BED	0.00	0
Top 3	0548502	1	COVER,58" DIA W/24" SQ OPENING x 12" HIGH	0.43	1,700
Top 1	n358900	1	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	250
Base	0548040	1	48" I.D. X 4' MONO SPECIAL	1.28	5,113
Misc 1	1403100	1	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	1
Acces	20624L	1	BOOT,KOR-N-SEAL 24L-(4-180 BANDS)	0.00	14
	1204218	1	ADAPTOR,NPC-CGA18	0.00	1
	1211180	8	BAND,KOR-N-SEAL 1-180	0.00	1
Structure Totals				1.71	7,289

Inside Area View

Rim to Invert	4.84'	Precast Height	5.67'	Wall	5.00"
Less Casting	4.84'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	6.34'		
Adjustment (Brick/Mort.)	0.17				

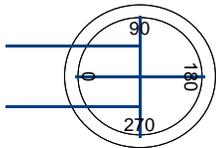


Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
(1)	519.14							
(1)	514.3	0	18 HDPE	20624L	24	24	9	Base
(2)		0			0	0	0	
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 48" I.D. X 4' MONO SPECIAL
 Product ID: 0548040S
 Item: Base Step Location: 90

18 HDPE/20624L
 H 24" / W 24.00"
 Over: .00
 Up: 9" / Ang 0



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



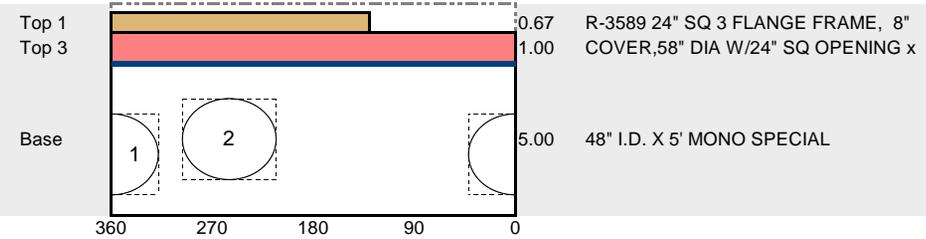
DATE 3/27/2015 BY James Rashford

Structure Product Detail

Item	Product	Qty	Product Description	Yards	Weight
	1900000	1	need heat date	0.00	0
	2000000	0.7	TRUCKING, FLAT BED	0.00	0
Rim	n340530	1	R-3405-A CHECKER BOARD GRATE TYPE D	0.00	210
Top 3	0548502	1	COVER,58" DIA W/24" SQ OPENING x 12" HIGH	0.43	1.700
Top 1	n358900	1	R-3589 24" SQ 3 FLANGE FRAME, 8" HIGH or 3589-2004	0.00	250
Base	0548050	1	48" I.D. X 5' MONO SPECIAL	1.37	5.486
Misc 1	1403100	1	MASTIC,CON-SEAL, 1" X 14 1/2' (8 ROLLS/BOX) CS-102	0.00	1
Acces	S30632	2	BOOT,KOR-N-SEAL S306-32WP(4-I242 BANDS)	0.00	36
	1204224	2	ADAPTOR,NPC-CGA24	0.00	2
Structure Totals				1.80	7,685

Inside Area View

Rim to Invert	5.94'	Precast Height	6.67'	Wall	5.00"
Less Casting	5.94'	Floor	8.00"	Sump	1.00'
Invert to Floor	1.00'	Plus Floor	7.34'		
Adjustment (Brick/Mort.)	0.27				



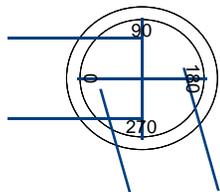
Elevations

Rim	Elev	Angle	Pipe	Hole Type	Hole" Height	Hole" Width	Up"	Item
	520.49							
(1)	514.55	0	24 HDPE	S30632	32	32	8	Base
(2)	515.05	255	24 HDPE	S30632	32	32	14	Base
(3)		0			0	0	0	
(4)		0			0	0	0	
(5)		0			0	0	0	
(6)		0			0	0	0	
(7)		0			0	0	0	
(8)		0			0	0	0	

Description: 48" I.D. X 5' MONO SPECIAL
 Product ID: 0548050S
 Item: Base

Step Location: 90

24 HDPE/S30632
 H 32" / W 32.00"
 Over: .00
 Up: 8" / Ang 0



24 HDPE/S30632
 H 32" / W 32.00"
 Over: 106.76
 Up: 14" / Ang 255

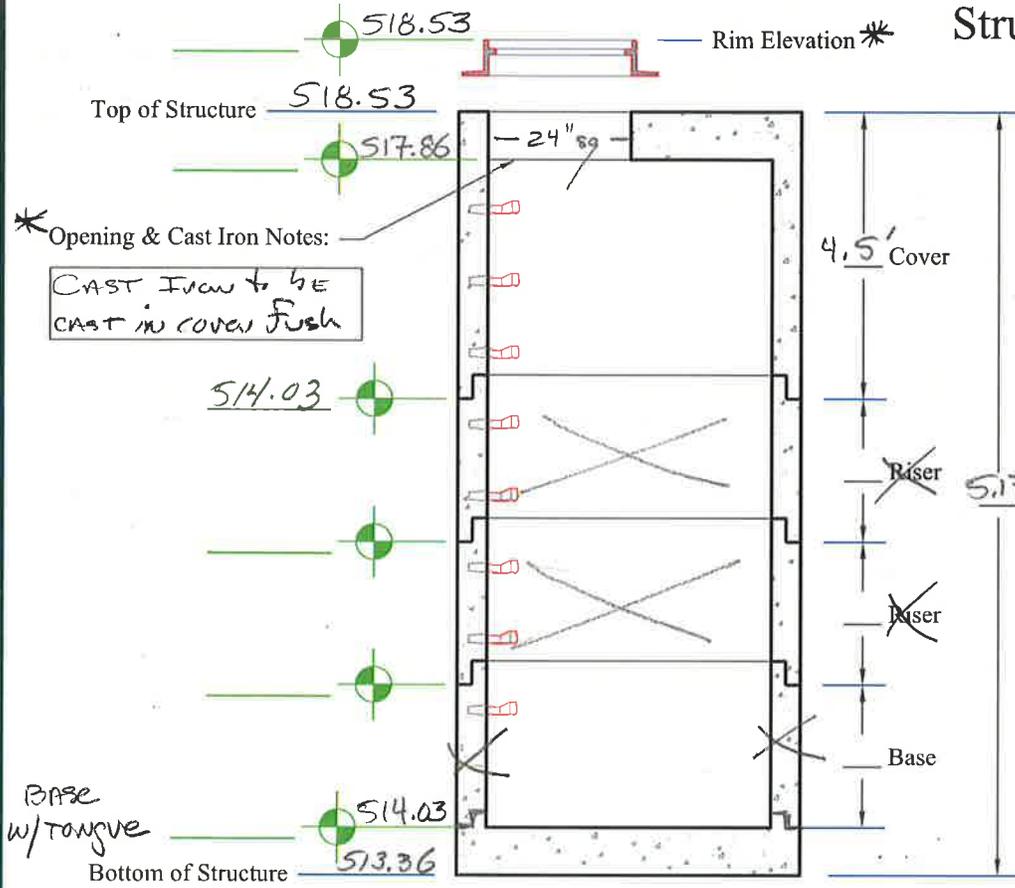
- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015 BY James Rashford

Structure #: DI-7A



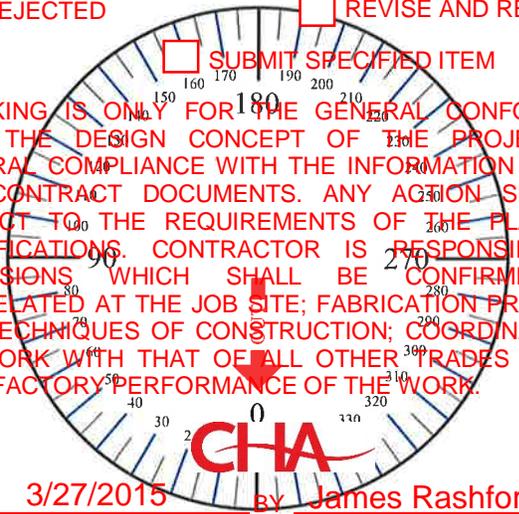
- Structure Type:
- Sewer Manhole
 - Drain Manhole
 - DI / Catch Basin
 - Outlet Structure
- Structure Ø Size:
- 36" Diameter
 - 48" Diameter
 - 60" Diameter
 - 72" Diameter
 - 96" Diameter
- Accessories & Options:
- Mastic
 - Boots/Holes
 - Steps
 - Coating
 - Poured Invert
 - Opening Cast Iron

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

Please Complete the Chart Below or Diagram on the Left Showing All Pipe Penetrations; Elevations, Angles, Pipe Size & Type.

- Opening
- 24" Square
 - 24" Round
 - 30" Round
 - Other *See Notes
- Cast Iron
- 24" Square
 - 24" Round
 - 30" Round
 - Other *See Notes

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



Cast Iron Height: 6" BUT CAST IN COVER.

	Pipe:			
	Elev.	Angle	Size	Type
Out	513.32	0°	24"	HDPE
In	515.32			
In				

DATE 3/27/2015 BY James Rashford

Top Slab Height: 518.53 Bottom Slab Height: 514.03

Job #: 15791 Additional Notes:
 Company: Champlain Const
 Project: Ripley STREET - RUTLAND CITY BRP 3000 (19)
 Address: RUTLAND, VT
 Date: 9 MAR 2015

Standard Sizes

Flat Top

Height	Weight
1'-0"	1,620 lb
1'-6"	2,040 lb

Opening

Size	Shape
24"	Square
24"	Round
30"	Square
30"	Round

Cone

Height	Hole	Weight
2'-2"	30"Ø	1,620 lb
2'-4"	24"Ø	2,040 lb
3'-2"	24"Ø	2,040 lb

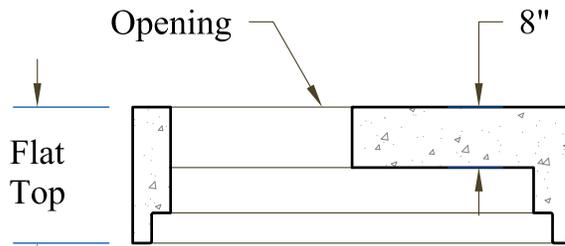
Riser

Height	Weight
1'-0"	845 lb
2'-0"	1,690 lb
3'-0"	2,535 lb
4'-0"	3,380 lb
5'-0"	4,225 lb

Base

Height	Weight
1'-0"	2,770 lb
2'-0"	3,615 lb
3'-0"	4,460 lb
4'-0"	5,305 lb
5'-0"	6,150 lb
6'-0"	6,995 lb

Custom Heights & Openings Available

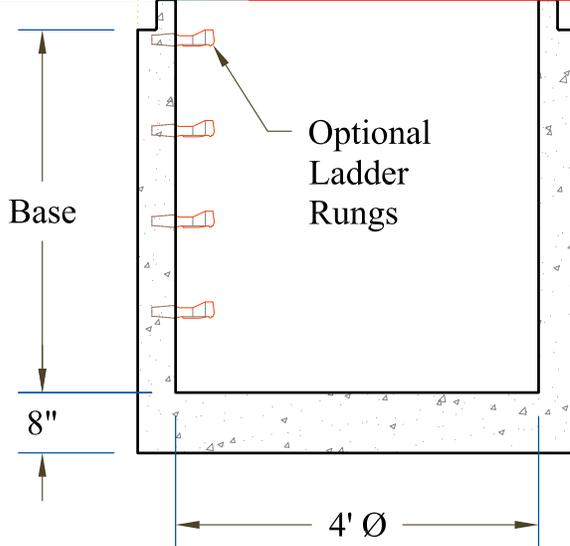


- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



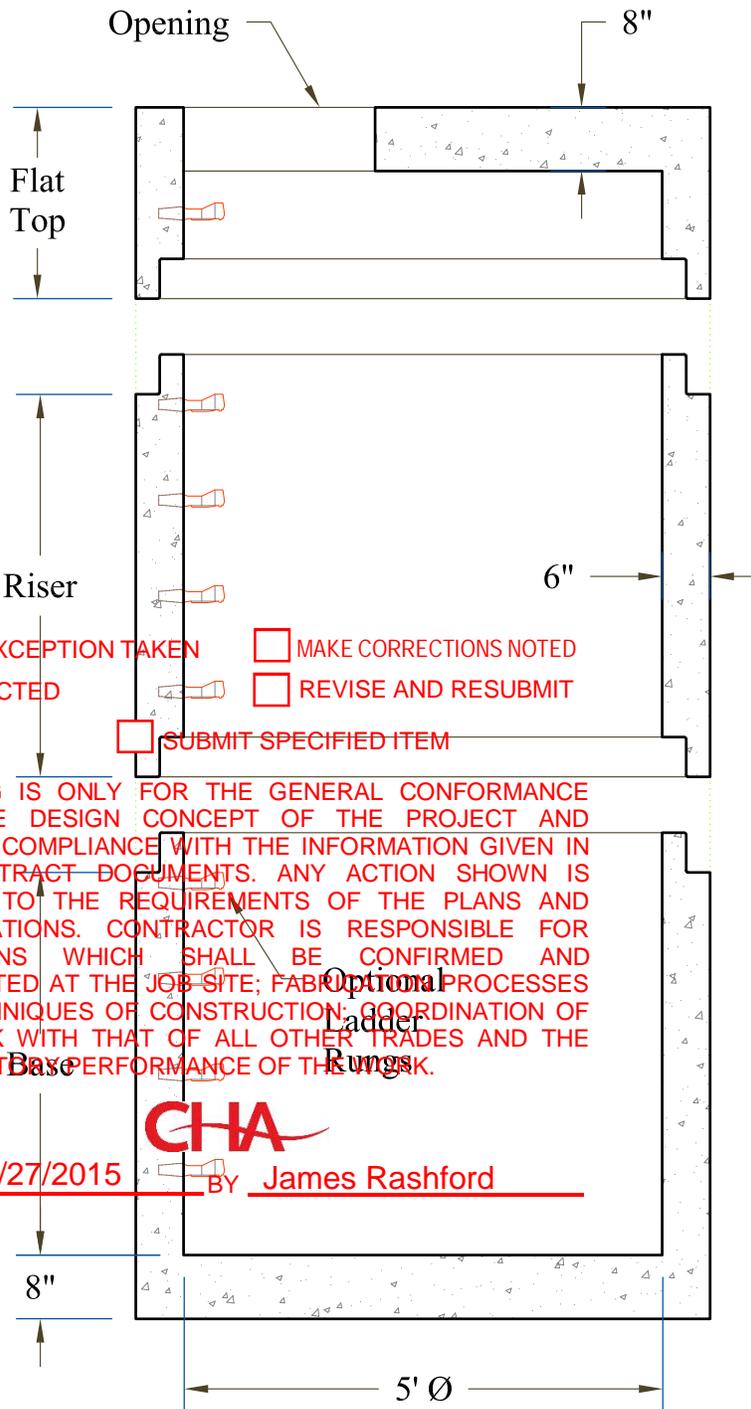
DATE 3/27/2015 BY James Rashford



Section View

Design Notes:

- Concrete Minimum 5000 psi at 28 days
- Cut Outs for Pipe Entries or Flexible Sleeves as Required
- Optional Steel Reinforced Copolymer Polypropylene Ladder Rungs at 12" O.C. or as Required
- Meets AASHTO H-20 Loading
- Meets ASTM C-478 Specifications
- Weights May Vary



Standard Sizes

Flat Top

Height	Weight
1'-1"	4,200 lb

Opening

Size	Shape
24"	Square
24"	Round
30"	Square
30"	Round

Riser

Height	Weight
1'-0"	1,260 lb
2'-0"	2,520 lb
3'-0"	3,780 lb
4'-0"	5,040 lb
5'-0"	6,300 lb

Base

Height	Weight
1'-0"	4,220 lb
2'-0"	5,480 lb
3'-0"	6,740 lb
4'-0"	8,000 lb
5'-0"	9,260 lb
6'-0"	10,520 lb

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

DATE 3/27/2015 BY James Rashford

CHA

Section View

Custom Heights & Openings Available

Design Notes:

- Concrete Minimum 5000 psi at 28 days
- Cut Outs for Pipe Entries or Flexible Sleeves as Required
- Optional Steel Reinforced Copolymer Polypropylene Ladder Rungs at 12" O.C. or as Required
- Meets AASHTO H-20 Loading
- Meets ASTM C-478 Specifications
- Weights May Vary



CONSEAL™
Concrete Sealants INC.

CS102

**Butyl Rubber Sealant For All Precast Structures;
Meets Specs.**

APPLICATIONS

For self-sealing joints in: Manholes, Concrete Vaults, Septic Tanks, Concrete Pipe, Box Culverts, Utility Vaults, Burial Vaults, and Vertical Panel Structures.

SEALING PROPERTIES

- Provides permanently flexible watertight joints.
- Low to high temperature workability: 30°F to 120°F (-1°C to 48°C)
- Rugged service temperature: -30°F to +200°F (-34°C to +93°C)
- Excellent chemical and mechanical adhesion to clean, dry surfaces.
- Sealed Joints will not shrink, harden or oxide upon aging.
- No priming normally necessary. When confronted with difficult installation conditions, such as wet concrete or temperatures below 40°F (4°C), priming the concrete will improve the bonding action. Consult Concrete Sealants for the proper primer to meet your application.

HYDROSTATIC STRENGTH

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED

REJECTED REVISE AND RESUBMIT

ConSeal CS-102 meets the hydrostatic performance requirement as set forth in ASTM C-990 section 10.1 (Performance requirement: 100 psi for 10 minutes in straight alignment – in plant, quality control test for joint materials.)

SUBMIT SPECIFIED ITEM

SPECIFICATIONS

ConSeal CS-102 meets or exceeds the requirements of Federal Specification SS-S-210 (210-A), AASHTO M 198B, and ASTM C 990-91.

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



DATE 3/27/2015 BY James Rashford

PRODUCT SPECIFICATIONS



CONSEAL™
Concrete Sealants INC.

CS102

**Butyl Rubber Sealant For All Precast Structures;
Meets Specs.**

PHYSICAL PROPERTIES

	Spec	Required*	CS 102
Hydrocarbon blend content % by weight	ASTM D4 (mod.)	50% min.	51%
Inert mineral filler % by weight	AASHTO T111	30% min.	35%
Volatile Matter % by weight	ASTM D6	2% max.	1.2
Specific Gravity, 77°F	ASTM D71	1.15-1.50	1.25
Ductility, 77°F	ASTM D113	5.0 min.	10
Penetration, cone 77°F, 150 gm. 5 sec.	ASTM D217	50-100	55-60
Penetration, cone 32°F, 150 gm. 5 sec.	ASTM D217	40 mm	40-65
Flash Point, C.O.C., °F	ASTM D92	350°F min.	450°F
Fire point, C.O.C., °F	ASTM D92	375°F min.	475°F

IMMERSION TESTING

- 30-Day Immersion Testing: No visible deterioration when tested in 5% Caustic Potash, 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated Hydrogen Sulfide. *
 - NO EXCEPTION TAKEN
 - MAKE CORRECTIONS NOTED
 - REJECTED
 - REVISE AND RESUBMIT
 - SUBMIT SPECIFIED ITEM
- One Year Immersion Testing: No visible deterioration when tested in 5% Formaldehyde, 5% Formic Acid, 5% Sulfuric Acid, 5% Hydrochloric Acid, 5% Sodium Hydroxide, 5% Hydrogen Sulfide and 5% Potassium Hydroxide.

• Requirements of ASTM C-990 Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants.

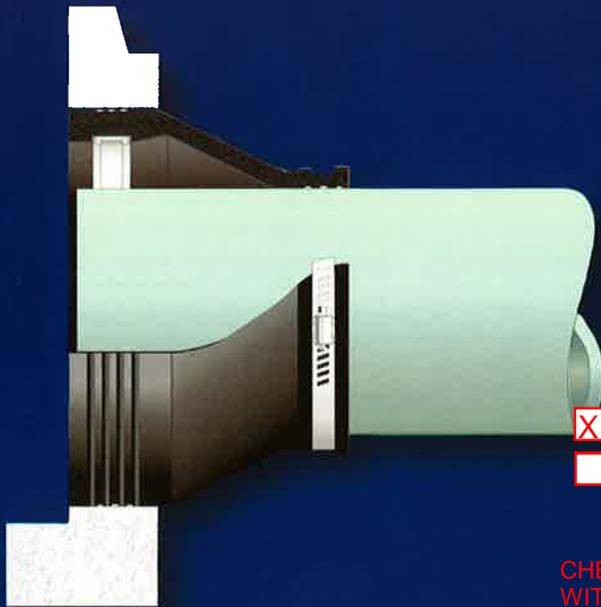
LIMITED WARRANTY

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether in combination with other products.

DATE 3/27/2015 BY James Rashford

Kor-N-Seal® I

106/406 Series Pipe-to-Manhole Connector



- *Most widely used flexible connector in sanitary sewer applications throughout the world*
- *Easy-to-Install*

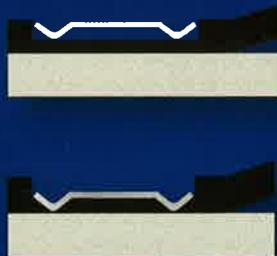
NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED
 REJECTED REPAIR AND RESUBMIT
 SUBMIT SPECIFIED ITEM

• *Meets the specifications of ASTM C923*

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

CHA

DATE 3/27/2015 BY James Rashford



Patented Waveband technology creates a more effective seal by concentrating the compressive force of the expansion band. The rubber is "captured" between the band and the concrete.

Kor-N-Seal I

106/406 Series Pipe-to-Manhole Connector

Wedge Style Connectors

EX Series Plastic or Stainless Steel

Installation requires a 1/2" socket wrench & preset torque limiter.



PIPE O.D. RANGE	MODEL NUMBER	NOMINAL HOLE SIZE
1.80 - 4.80	S106-7SW	7"
3.50 - 4.50	S106-7W	7"
4.20 - 6.40	S106-8SW	8"
1.70 - 4.80	S106-8M	8"
6.00 - 6.75	S406-10AW	10"
7.50 - 8.20	S406-10W	10"
6.00 - 6.75	S406-10.5AW	10½"
7.50 - 8.70	S406-10.5W	10½"
6.00 - 7.00	S406-11BW	11"
7.50 - 9.00	S406-11AW	11"
6.00 - 7.00	S406-12CW	12"
6.25 - 7.50	S406-12BW	12"
7.50 - 9.00	S406-12AW	12"
9.00 - 10.20	S406-12W	12"
5.75 - 7.00	S106-12BW	12"
7.00 - 8.50	S106-12AW	12"
8.25 - 9.75	S106-12W	12"
9.50 - 11.25	S106-14AW	14"
9.50 - 11.25	S106-16BW	16"
11.25 - 13.00	S106-16AW	16"
13.00 - 14.20	S106-16W	16"
14.00 - 15.50	S106-20BWS	20"
15.50 - 17.00	S106-20AWS	20"
17.00 - 18.15	S106-20WS	20"

Refer to Recommended Installation Instructions.

Toggle Style Connectors (Jack-In Style)

Installation requires a hydraulic jack assembly



PIPE O.D. RANGE	MODEL NUMBER	NOMINAL HOLE SIZE
1.80 - 4.80	S106-7ST	7"
3.50 - 4.50	S106-7T	7"
4.20 - 6.40	S106-8ST	8"
5.10 - 5.90	S106-8T	8"
6.00 - 6.75	S406-10AT	10"
7.50 - 8.40	S406-10T	10"
6.00 - 6.75	S406-10.5AT	10½"
7.50 - 8.90	S406-10.5T	10½"
6.00 - 7.00	S406-11BT	11"
7.50 - 9.00	S406-11AT	11"
6.00 - 7.00	S406-12CT	12"
6.25 - 7.50	S406-12BT	12"
7.50 - 9.00	S406-12AT	12"
9.00 - 10.50	S406-12T	12"
5.75 - 7.00	S106-12BT	12"
7.00 - 8.50	S106-12AT	12"
8.25 - 9.75	S106-12T	12"
9.50 - 11.25	S106-14AT	14"
9.50 - 11.25	S106-16BT	16"
11.25 - 13.00	S106-16AT	16"
13.00 - 14.50	S106-16T	16"

Refer to Recommended Installation Instructions.

To Install 7" & 8" Toggle Style Connectors:
 Expander Assembly (p/n 90225)
 8" Extension (p/n 13808)

Ordering Information

Kor-N-Seal I:
 106/406 Series
 Pipe-to-Manhole Connector



The 106 Series connector is 8 inches long, the 406 Series connector is 6 inches long. The number following the hyphen in our model numbers is the required hole size. The S106-20 Series is available in Stainless Steel Wedge only.

Recommended Torque Values:

Connectors with 8" hole size and smaller:

Plastic Wedge - 3/16" Hex Head Torque Wrench - 5 ft. lbs.
 Steel Wedge - 1/2" Socket Wrench - 8 ft. lbs.

Connectors with 10 - 20" hole sizes:

EX Series - 1/2" Socket Wrench - 12 - 20 ft. lbs.
 Steel Wedge - 1/2" Socket Wrench - 12 ft. lbs.

Preset torque limiters are available.

Contact Customer Service at 1-800-626-2180 for more information.

For larger pipe sizes refer to Kor-N-Seal II Series Connectors

206 Series - For pipe sizes 15" - 51" in diameter.

306 Series - To fit larger pipe into smaller diameter manholes.

506 Series - Designed specifically for stormwater applications.

Using Corrugated Pipe

Adapters are required when using Corrugated Pipe. Refer to the Corrugated Pipe Adapter Data Sheet for details.

SUBMIT SPECIFIED ITEM

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED
 REJECTED REVISE AND RESUBMIT

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



Trelleborg Pipe Seals, Milford, NH
 DATE 3/27/2015 BY James Rashford
 P.O. Box 301, 250 Elm Street, Milford, New Hampshire 03055 U.S.A.
 Tel: 800-626-2180 603-673-8680 Fax: 603-673-7271 www.trelleborg.com/npc

Kor-N-Seal® II

206 Series Pipe-to-Manhole Connector



CORRUGATED RUBBER DESIGN

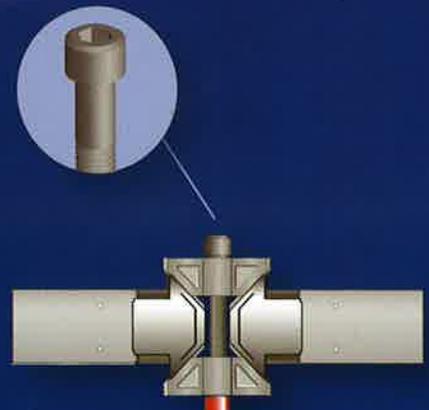
- *Corrugated profile for easier installation and positioning of the pipe in trench*
- *Designed for larger pipe sizes 18" - 51"*
- *Meets the specifications of ASTM C923*

- | | |
|--|---|
| <input checked="" type="checkbox"/> NO EXCEPTION TAKEN | <input type="checkbox"/> MAKE CORRECTIONS NOTED |
| <input type="checkbox"/> REJECTED | <input type="checkbox"/> REVISE AND RESUBMIT |
| <input type="checkbox"/> SUBMIT SPECIFIED ITEM | |

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

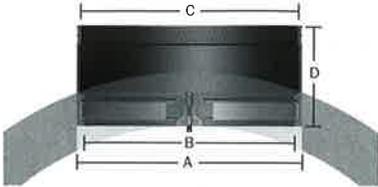
CHA 206 Series Connector is

DATE 3/27/2015 BY James Rashford
 designed with an Allen Head Wedge Bolt for easier installation of the connector into the manhole.



Kor-N-Seal II

206 Series Pipe-to-Manhole Connector



- To fit larger sized pipe into smaller diameter manholes, please refer to our Kor-N-Seal II 306 Series Connectors.

- Using Corrugated Pipe: Adapters are required when using Corrugated Pipe. Refer to the Corrugated Pipe Adapter Data Sheet for details.

P/N	Suggested Pipe O.D. Range	Hole Size Range		Connector Dimension				Pipe Clamps		Minimum Manhole Size Required
		A	B	C	D	Qty	P/N			
S206-18L	15.000 - 15.625	17.98	18.13	15.875	16	10.50	2	I-282	48/4	
S206-20	15.625 - 17.000	19.98	20.13	17.875	17	10.50	2	I-282	48/4	
S206-20L	17.000 - 17.625				18		2	I-306		
S206-22	17.625 - 19.000	21.98	22.13	19.875	19	10.50	2	I-318	48/4	
S206-22L	19.000 - 19.625				20		2	I-348		
* S206-24A	18.000 - 19.500	23.98	24.13	21.875	18.75	10.00	4	I-180	48/5	
S206-24	19.625 - 21.000	23.98	24.13	21.875	21	10.50	4	I-180	48/5	
S206-24L	21.000 - 21.625				22		4			
S206-26	21.625 - 23.000	26.00	26.20	23.875	23	10.50	4	I-190	48/5	
S206-26L	23.000 - 23.625				24		4	I-218		
S206-28	23.625 - 25.000	28.00	28.20	25.875	25	10.50	4	I-218	48/5	
S206-28L	25.000 - 25.625				26		4			
S206-30	25.625 - 27.000	30.00	30.20	27.875	27	10.50	4	I-218	48/6	
S206-30L	27.000 - 27.625				28		4	I-242		
S206-32	27.625 - 29.000	32.00	32.20	29.875	29	10.50	4	I-242	60/6	
S206-32L	29.000 - 29.625				30		4			
S206-34	29.625 - 31.000	34.00	34.20	31.875	31	10.50	4	I-258	60/6	
S206-34L	31.000 - 31.625				32		4			
S206-36	31.625 - 33.000	36.00	36.20	33.875	33	10.50	4	I-282	60/7	
S206-36L	33.000 - 33.625				34		4			
S206-38	33.625 - 35.000	38.00	38.20	35.875	35	10.50	4	I-282	60/7	
S206-38L	35.000 - 35.625				36		4	I-306		
S206-40	35.625 - 37.000	40.00	40.20	37.875	37	10.50	4	I-306	60/8	
S206-40L	37.000 - 37.625				38		4			
S206-42	37.625 - 39.000	42.00	42.20	39.875	39	10.50	4	I-318	60/8	
S206-42L	39.000 - 39.625				40		4	I-348		
S206-44	39.625 - 41.000	44.00	44.20	41.875	41	10.50	4	I-348	72/8	
S206-44L	41.000 - 41.625				42		4			
S206-46	41.625 - 43.000	46.00	46.20	43.875	43	10.50	4	I-348	84/8	
S206-46L	43.000 - 43.625				44		4	I-242		
S206-48	43.625 - 45.000	48.00	48.20	45.875	45	10.50	6	I-242	84/8	
S206-48L	45.000 - 45.625				46		6	I-258		
S206-50	45.625 - 47.000	50.00	50.25	47.250	46	10.50	6	I-258	84/9	
S206-50L	47.000 - 47.625				47		6			
S206-52	47.625 - 49.000	52.00	52.25	49.250	48	10.50	6	I-282	84/9	
S206-52L	49.000 - 49.625				49		6			
S206-54	49.625 - 51.000	54.00	54.25	51.250	50	10.50	6	I-282	96/8.5	
S206-54L	51.000 - 51.625				51		6			

NO EXCEPTION TAKEN
 REJECTED

MAKE CORRECTIONS NOTED

REVISE AND RESUBMIT

SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL COMPLIANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

Larger sizes quoted upon request.



TRELLEBORG

DATE 3/27/2015 BY James Rashford



TRELLEBORG

Kor-N-Seal® II 306 Series Pipe-to-Manhole Connector



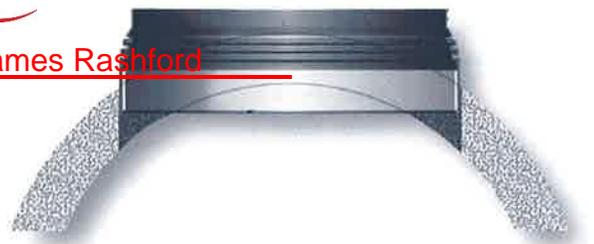
- Allows you to fit large diameter pipe into the smallest possible manhole structures
- Can be used in cored or formed holes
- Meets the specifications of ASTM C923
- Easy-to-install

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED
 REJECTED REVISE AND RESUBMIT
 SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

CHA

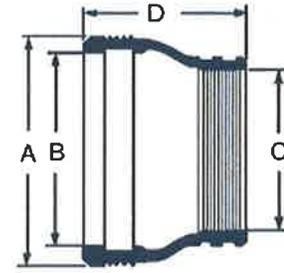
The Patented 4" wide Stainless Steel Korbond is able to overcome the curvature of smaller sized manholes and provide a watertight seal.



Kor-N-Seal® II 306 Series Connector



P/N	Suggested Pipe O.D. Range	Hole Size Range	Connector Dimensions				Pipe Clamp		Minimum Manhole Size
			A	B	C	D	Qty	P/N	
S306-22	17.625 - 18.500	21.98 - 22.13	19.875	19	10.5	2	I-318	36/4	
S306-22L	18.500 - 19.625			20		2	I-348		
S306-24	19.625 - 20.500	23.98 - 24.13	21.875	21	10.5	4	I-180	36/4	
S306-24L	20.500 - 21.625			22		4	I-180		
S306-26	21.625 - 22.500	26.00 - 26.20	23.875	23	10.5	4	I-190	36/4	
S306-26L	22.500 - 23.625			24		4	I-218		
S306-28	23.625 - 24.500	28.00 - 28.20	25.875	25	10.5	4	I-218	48/5	
S306-28L	24.500 - 25.625			26		4	I-218		
S306-30	25.625 - 26.500	30.00 - 30.20	27.875	27	10.5	4	I-218	48/5	
S306-30L	26.500 - 27.625			28		4	I-242		
S306-30L-32	26.500 - 27.625	32.00 - 32.20	29.875	28	10.5	4	I-242	48/5	
S306-32	27.625 - 28.500	32.00 - 32.20	29.875	29	10.5	4	I-242	48/5	
S306-32L	28.500 - 29.625			30		4	I-242		
S306-34	29.625 - 30.500	34.00 - 34.20	31.875	31	10.5	4	I-258	48/5	
S306-34L	30.500 - 31.625			32		4	I-258		
S306-36	31.625 - 32.500	36.00 - 36.20	33.250	33	10.5	4	80667 Power Gear	60/6	
S306-36L	32.500 - 33.000			34		4	80667 Power Gear		
S306-36-STORM	31.625 - 32.500	36.00 - 36.20	33.875	33	10.5	4	I-282	60/6	
S306-36L-STORM	32.500 - 33.625			34		4	I-282		
S306-38	33.625 - 34.500	38.00 - 38.20	35.250	35	10.5	4	80667 Power Gear	60/6	
S306-38L	34.500 - 35.000			36		4	80667 Power Gear		
S306-38LS-PG	34.500 - 35.625	38.00 - 38.20	35.875	36	10.5	4	80667 Power Gear	60/6	
S306-38-STORM	33.625 - 34.500	38.00 - 38.20	35.875	35	10.5	4	I-282	60/6	
S306-38L-STORM	34.500 - 35.625			36		4	I-306		
S306-40	35.625 - 36.500	40.00 - 40.20	37.250	37	10.5	4	80667 Power Gear	60/6	
S306-40L	36.500 - 37.000			38		4	I-306		
S306-40-STORM	35.625 - 36.500	40.00 - 40.20	37.875	37	10.5	4	I-306	60/6	
S306-40L-STORM	36.500 - 37.625			38		4	I-306		
S306-42	37.625 - 38.500	42.00 - 42.20	39.250	39	10.5	6	80682 Power Gear	72/7	
S306-42L	38.500 - 39.000			40		6	80682 Power Gear		
S306-42-STORM	37.625 - 38.500	42.00 - 42.20	39.875	39	10.5	4	I-318	72/7	
S306-42L-STORM	38.500 - 39.625			40		4	I-348		
S306-44	39.625 - 40.500	44.00 - 44.20	41.250	41	10.5	6	80682 Power Gear	72/7	
S306-44L	40.500 - 41.000			42		6	80682 Power Gear		
S306-44LS-PG	40.500 - 41.625	44.00 - 44.20	41.875	42	10.5	4	80682 Power Gear	72/7	
S306-44-STORM	39.625 - 40.500	44.00 - 44.20	41.875	41	10.5	4	I-318	72/7	
S306-44L-STORM	40.500 - 41.625			42		4	I-348		
S306-46	41.625 - 42.500	46.00 - 46.20	43.250	43	10.5	6	80667 Power Gear	72/7	
S306-46L	42.500 - 43.000			44		6	80667 Power Gear		
S306-46-STORM	41.625 - 42.500	46.00 - 46.20	43.875	43	10.5	4	I-348	72/7	
S306-46L-STORM	42.500 - 43.625			44		4	I-348		
S306-48	43.625 - 44.500	48.00 - 48.20	45.250	45	10.5	6	80667 Power Gear	72/7	
S306-48L	44.500 - 45.000			46		6	80667 Power Gear		
S306-48-STORM	43.625 - 44.500	48.00 - 48.20	45.875	45	10.5	6	I-242	72/7	
S306-48L-STORM	44.500 - 45.625			46		6	I-258		



*Adapters are required when using corrugated pipe. Refer to the Corrugated Pipe Adapter Data Sheet for details.

NO EXCEPTION TAKEN
 REJECTED
 MAKE CORRECTIONS NOTED
 REVISE AND RESUBMIT
 SUBMIT SPECIFIED ITEM

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

CHA

DATE 3/27/2015 BY James Rashford

Covered under U.S. Patent No. 6,641,176



NPC - Corrugated Pipe Adapter



- Provides a good sealing surface on corrugated HDPE pipe
- Easy to install - Simply stretch it over the pipe to the desired location
- Certified to ASTM C923 when used with a Kor-N-Seal® Connector

- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECTED
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

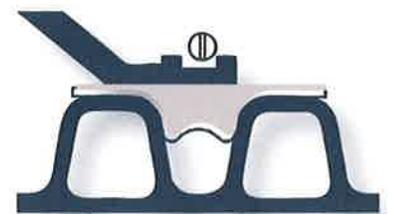
- Specifically designed for use with most sizes of ADS, Hancor, Lane, N-Flow, Quality Culvert, JM Eagle and Contech A2000

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.

CHA

DATE 3/27/2015 BY James Rashford

The unique design of our Pipe Adapter distributes the force from the pipe clamp on our Kor-N-Seal connector directly against the inside walls of the pipe corrugations, creating a watertight seal up to 24 inches*.



NPC - Corrugated Pipe Adapter

Pipe Size	Pipe Mfg.	Pipe O.D. Ref. ± ¼	Adapter Part No.	Kor-N-Seal Connector	Sealing Capability
8	ADS	9 1/8	CGA-8A	S106-12 or S406-12	WT
	Hancor	9 1/8	CGA-8H		WT
	Lane	9 7/16	CGA-8L		WT
10	ADS	11 3/8	CGA-10A	S106-16A	WT
	Hancor	11 3/8	CGA-10H		WT
	Lane	11 3/4	CGA-10L		WT
12	ADS	14 3/8	CGA-12A	S106-16T or S106-20BWS	WT
	Hancor	14 3/8	CGA-12H		WT
	Lane	14 9/16	CGA-12L	S106-20BWS	WT
	JM Eagle	14 1/4	CGA-12JM		ST
	Quality Culvert	14 1/2	CGA-12Q		ST
	Baughman	14 1/2	CGA-12B		ST
	N-Flow	15	CGA-12N		ST
Contech A2000	12 3/4	CGA-12C	S106-16A	WT	
15	ADS	17 1/2	CGA-15A	S106-20WS, S206-20L	WT
	Hancor	17 1/2	CGA-15H		WT
	Lane	17 7/16	CGA-15L		WT
	Baughman	18 1/4	CGA-15B	S206-22, S206-24A	ST
	N-Flow	18	CGA-15N		ST
	Quality Culvert	17 1/2	CGA-15Q	S106-20WS, S206-20L	ST
	Contech A2000	15 5/8	CGA-15C	S106-20AWS	WT
JM Eagle	17 1/2	CGA-15JM	S106-20WS, S206-20L	ST	
18	ADS	21 3/16	CGA-18A	S206-24L, S306-24L	WT
	Hancor	21 3/16	CGA-18H		WT
	Lane	21 3/16	CGA-18L		WT
	Baughman	21 4/19	CGA-18B		ST
	N-Flow	21	CGA-18N		ST
	Quality Culvert	21 5/16	CGA-18Q		ST
	Contech A2000	19 1/4	CGA-18C		S206-22L, S306-22L or S206-24A
JM Eagle	20 7/8	CGA-18JM	S206-24	WT	
21	Contech A2000	22 9/16	CGA-21C	S206-26, S306-26	WT <input checked="" type="checkbox"/> NO EXCEPTION TAKEN
24	ADS	27 3/4	CGA-24A	S206-30L-32, S306-30L-32	WT <input type="checkbox"/> REJECTED
	Hancor	27 3/4	CGA-24H		WT
	Lane	28	CGA-24L		WT
	Baughman	28 1/2	CGA-24B	S206-32, S306-32	ST <input type="checkbox"/> SUBMIT SPECIFIED ITEM
	N-Flow	28	CGA-24N		ST
	Quality Culvert	27 15/16	CGA-24Q	S206-30L-32, S306-30L-32	ST
	Contech A2000	25 1/2	CGA-24C	S206-28L, S306-28L	WT
JM Eagle	27 1/2	CGA-24JM	S206-30L	ST	

Pipe Size	Pipe Mfg.	Pipe O.D. Ref. ± ¼	Adapter Part No.	Kor-N-Seal Connector	Sealing Capability	
30	ADS	35	CGA-30A	S206-38L, S306-38L	ST	
	Hancor	36	CGA-30H		S206-40, S306-40	ST
	N-Flow	35	CGA-30N		S206-38L, S306-38L	ST
36	Baughman	35 13/20	CGA-30B	S206-40, S306-40-STORM	ST	
	Quality Culvert	34 7/8	CGA-30Q		S206-38, S306-38L-STORM	ST
	Lane	34 3/4	CGA-30L	S206-36, S306-36	ST	
	Contech A2000	32 3/16	CGA-30C		ST	
	JM Eagle	34 5/8	CGA-30JM		S206-38, S306-38-STORM	ST
	ADS	41 7/8	CGA-36A		S206-44L-46, S306-44L-46	ST
	Hancor	41 3/8	CGA-36H			ST
Lane	40 7/8	CGA-36L	S206-44L, S306-44L-STORM	ST		
Baughman	41 1/2	CGA-36B		P		
N-Flow	41 1/8	CGA-36N		ST		
Quality Culvert	41 3/8	CGA-36Q	S206-42L, S306-42L	ST		
Contech A2000	38 3/4	CGA-36C		ST		
JM Eagle	41 1/2	CGA-36JM	S206-44L	ST		
42	ADS	47 11/16	CGA-42A	S206-52L	ST	
	Hancor	47 15/16	CGA-42H		ST	
	Baughman	48 1/5	CGA-42B		ST	
	N-Flow	48	CGA-42N		ST	
	Quality Culvert	48 1/4	CGA-42Q		ST	
	Lane	47 3/8	CGA-42L		S206-52	ST
	JM Eagle	47 3/8	CGA-42JM			ST
48	ADS	53 7/16	CGA-48A	S206-58L	ST	
	Hancor	53 11/16	CGA-48H		ST	
	Lane	54	CGA-48L		ST	
	Baughman	54 3/10	CGA-48B		ST	
	N-Flow	54	CGA-48N		ST	
	Quality Culvert	54 3/4	CGA-48Q		ST	
	JM Eagle	53 13/16	CGA-48JM		S206-58	ST
54	Hancor	60 15/16	CGA-54H	S206-64L, S206-66	ST	
60	ADS	66 1/4	CGA-60A	S206-70L	ST	
	Hancor	67 3/16	CGA-60H	S206-72	ST	

WT = Watertight
ST = Subtight

CHECKING IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF THE WORK.



TRELLEBORG

CHA

DATE 3/27/2015 BY James Rashford

Trelleborg Pipe Seals Milford, Inc.
 P.O. Box 301, 250 Elm Street, Milford, New Hampshire 03055 U.S.A.
 Tel: 800-626-2180 603-673-8680 Fax: 603-673-7271 www.trelleborg.com/npc