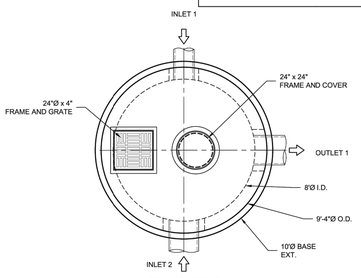
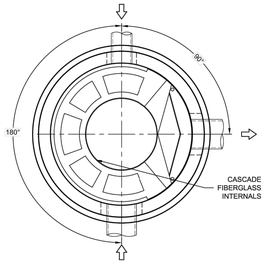
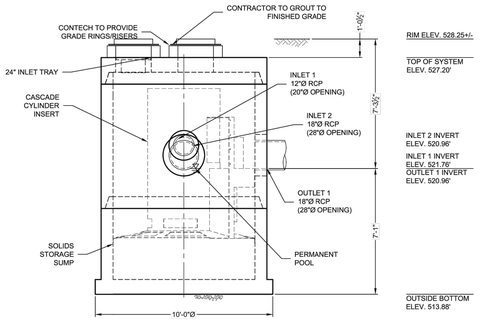
INTERNAL COMPONENTS TO BE INSTALLED ON SITE BY CONTECH FIELD CONSULTANT. PLEASE CONTACT CONTECH FOR CURRENT INSTALLATION LEAD TIME.



PLAN VIEW
(INTERNALS NOT SHOWN)



SECTION FOR PIPE ORIENTATION



ELEVATION VIEW

MATERIAL LIST (PROVIDED BY CONTECH) (TOP SLAB NOT SHOWN)

COUNT	DESCRIPTION	INSTALLED BY
1	CS-8 FIBERGLASS CYLINDER INSERT, STD.	CONTRACTOR
6	CS-8 ALUMINUM INSTALLATION BRACKET	CONTECH
1	24" INLET TRAY	CONTRACTOR
1	SEALANT FOR JOINTS	CONTRACTOR
2 PLCS	GRADE RINGS/RISERS	CONTRACTOR
1	24" x 24" FRAME & GRATE, EJ#45624050A01, OR EQUIV.	CONTRACTOR
1	24"Ø x 4" FRAME & COVER, EJ#41600389, OR EQUIV.	CONTRACTOR

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.ContechES.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 22500 LBS.
OF 3 PIECES

MAXIMUM FOOTPRINT = 10'Ø

CONTECH
PROPOSAL
DRAWING

KIEN
LAYOUT 1A

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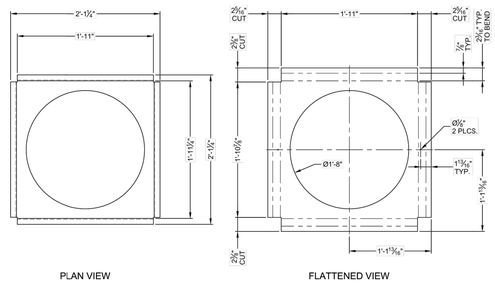
MARK	DATE	REVISION DESCRIPTION	BY

CS-8 - 699563-10
TEXAS ROADHOUSE - OFALLON
OFALLON, MO
for SYSTEM: CASCADE SEPARATOR

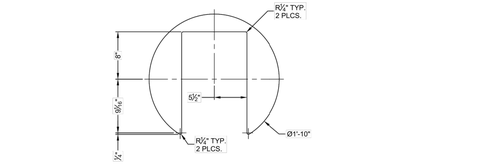
CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122 513.645.7000 513.645.7993 FAX
9025 Centre Pointe Drive, Suite 400, West Chester, OH 45069

CASCADE separator™

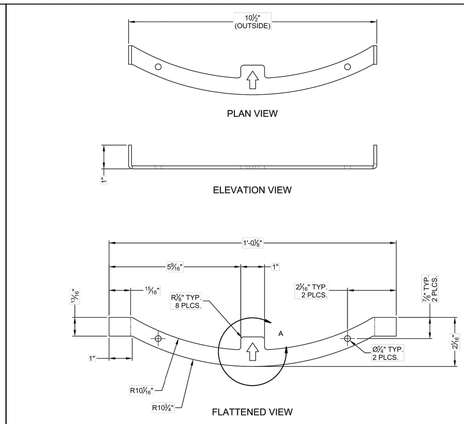
DATE:	02/23/22
DESIGNED: CEU	DRAWN: CEU
CHECKED: CEU	APPROVED: CEU
PROJECT No.: 699563	SEQUENCE No.: 10
SHEET: 1 OF 1	



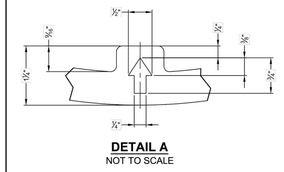
MOUNTING PAN DETAILS



TRAY SUPPORT DETAILS



INDEXER DETAILS
SCALE: 3" = 1'-0"



MARK	DATE	REVISION DESCRIPTION	BY
A	10/6/16	NEW FORMAT	NDG

GRATE INLET TRAY DETAILS
USE WITH 24" SQUARE TOP SLAB OPENING
MOUNTING PAN, SUPPORT AND
INDEXER DETAILS

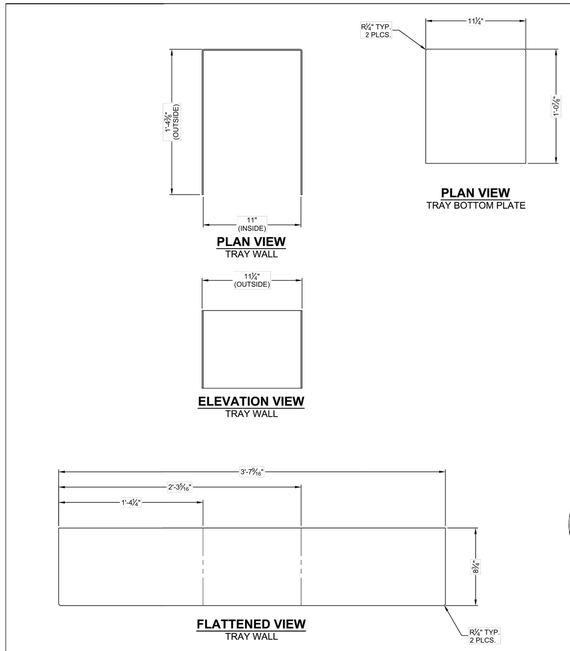
CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122 513.645.7000 513.645.7993 FAX
9025 Centre Pointe Drive, Suite 400, West Chester, OH 45069

CONTECH
FABRICATION
DRAWING

DATE:	10/6/16
DESIGNED: GWB	DRAWN: NDG
CHECKED: GWB	APPROVED: GWB
PROJECT No.: N/A	SEQUENCE No.: N/A
SHEET: 1 OF 1	

DIMENSIONS ARE IN INCHES DEBUR EDGES BREAK CORNERS
MAKE ALL TROUGHS AND INLET/OUTLET PLATES IN SETS TO ENSURE FIT
MATERIAL: 3/16" THICK 5052-H32 ALUMINUM ALLOY
ALL BEND RADII EQUAL TO MATERIAL THICKNESS

TOLERANCES:
FRACTIONAL: +/- 1/16 INCH TWO PLACE DECIMAL: 0.12
ANGULAR: MACH +/-1 INCH, BEND +/-1 DEG. THREE PLACE DECIMAL: 0.060



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MARK	DATE	REVISION DESCRIPTION	BY
1	3/24/17	NEW FORMAT	NDG

GRATE INLET TRAY DETAILS
USE WITH 24" SQUARE TOP SLAB OPENING
MOUNTING PAN, SUPPORT AND
INDEXER DETAILS

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9025 Centre Pointe Drive, Suite 400, West Chester, OH 45069

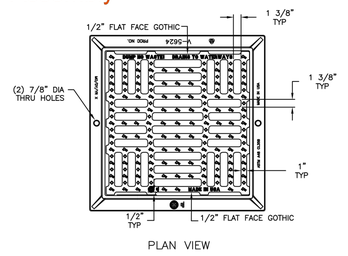
CONTECH
FABRICATION
DRAWING

DATE:	10/6/16
DESIGNED: GWB	DRAWN: NDG
CHECKED: GWB	APPROVED: GWB
PROJECT No.: N/A	SEQUENCE No.: N/A
SHEET: 2 OF 2	

DIMENSIONS ARE IN INCHES DEBUR EDGES BREAK CORNERS
MAKE ALL TROUGHS AND INLET/OUTLET PLATES IN SETS TO ENSURE FIT
MATERIAL: 3/16" THICK 5052-H32 ALUMINUM ALLOY
ALL BEND RADII EQUAL TO MATERIAL THICKNESS

TOLERANCES:
FRACTIONAL: +/- 1/16 INCH TWO PLACE DECIMAL: 0.12
ANGULAR: MACH +/-1 INCH, BEND +/-1 DEG. THREE PLACE DECIMAL: 0.060

V5624 Assembly



ej

Product Number
45624050A01

Design Features
-Materials
Frame
Gray Iron (CL35B)
Grate
Ductile Iron (70-50-05)
88 lbs

-Design Load
Heavy Duty
-Open Area
318 SQ.IN.
-Coating
Undipped
-√ Designates Machined Surface

Certification
-
- ASTM A536
- ASTM A48
-Country of Origin: USA

Major Components
45624010
45624050

Drawing Revision
09/01/2017 Designer: MAH
9/5/2017 Revised By: MAH

Disclaimer
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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Contact
800 626 4653
ejco.com

1

DEVELOPER/ OWNER:
MOHR CAPITAL, LLC
14643 DALLAS PARKWAY, SUITE 1000
DALLAS, TX 75254
(214) 801-9860

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NO	DESCRIPTION	DATE
1	GRADING AND DRAINAGE UPDATES	02/24/2022

STATE OF MISSOURI
MATTHEW A. HOLLOWAY
NUMBER
PE-2010017899
PROFESSIONAL ENGINEER

TEXAS ROADHOUSE IMPROVEMENT PLANS
MEXICO ROAD
O'FALLON, MO 63368

DETAILS

+ ST. CHARLES
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Suite 307
St. Charles, MO 63303
636.978.7508 tel
www.colest.com

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DESIGN/CALC BY	MGS
DRAWN BY	MGS
CHECKED BY	MGS
DRAWING SCALE	AS SHOWN
DATE	06/17/2022
Job Number	21-0154
Sheet Number	C9.2

USER: Matt Steuber TAB: C9.2 DETAILS
DATE: June 17, 2022 - 7:30:30 AM
DRAWING: S:\JOBS \Jobs\2021\21-0154\1400\C-Plan\PrintSheets\C_IPLAN_DETAIL_21-0154.dwg