

TRANSMITTAL

To: Shelly Co. Inc/Dave Schoenlein Date: 10/4/2007

From: Gregory A. McCue

Re: Cherry Road NW Rehab project Date 10/3/2007
Submitted:

WE ARE SENDING YOU: Shop Drawing Submittals

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

Submittal has been REVIEWED:

Notes: Key 1 – APPROVED (EJ 2015 Frame and Cover) Key 6 – NOT RECEIVED (Pavement Overlay Fabric Composite)
Key 2 – APPROVED (EJ 7030 Catch Basin)
Key 3 – APPROVED (Huth Conc. Mix Design)
Key 4 – APPROVED (Allied Corp 448 Type 1)
Key 5 – APPROVED (Allied Corp 448 Type 2)

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.

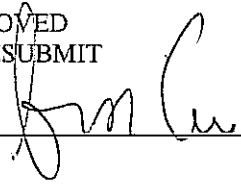
CITY OF MASSILLON
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646

BY Fred Werner/Greg McCue
DATE 10/4/07

(X) APPROVED
() APPROVED AS NOTED

() NOT APPROVED
() REVISE/RESUBMIT

CC: File, RPR

SIGNED: 

BASE FLANGE MANHOLE AND CATCH BASIN COVERS**2005 Frame and Cover**

Heavy Duty

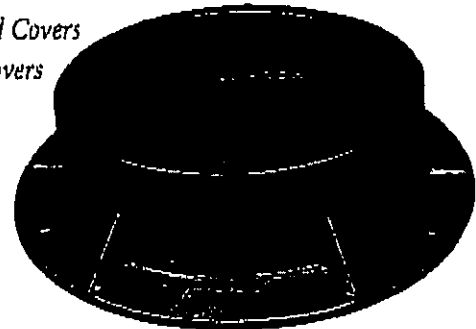
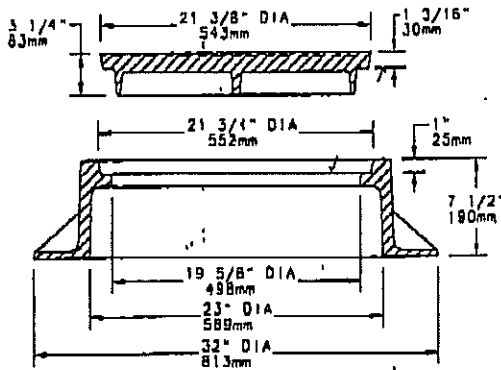
Machined bearing surfaces

350 pounds (159kg) total weight

Options:

Solid or Vented Covers

Gasket Seal Covers

**2010 Frame and Cover**

Heavy Duty

Machined bearing surfaces

430 pounds (195kg) total weight

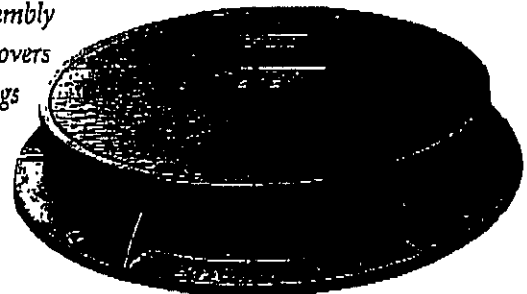
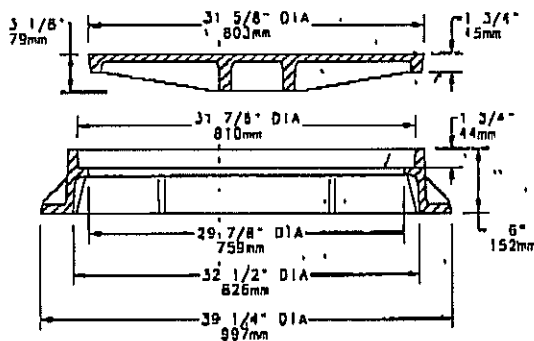
Options:

Solid or Vented Covers

Watertite Assembly

Gasket Seal Covers

Adjusting Rings

**2015 Frame and Cover**

Heavy Duty

Machined bearing surfaces

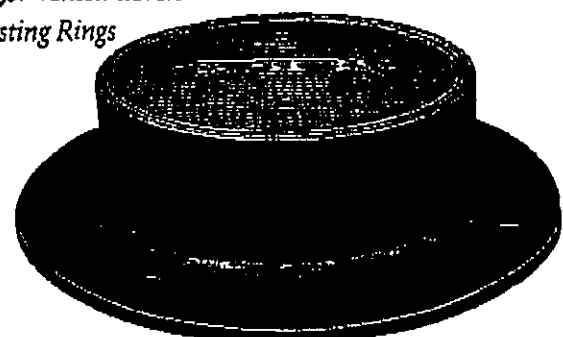
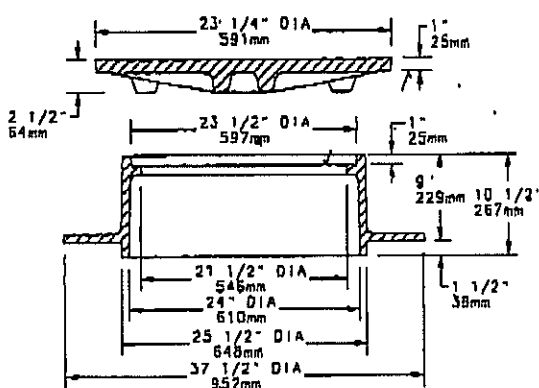
Cover has 4 - 1" diameter holes

315 pounds (143kg) total weight

Options:

Solid or Vented Covers

Adjusting Rings



SAWITNEY
M.H.
Recon.

d fm C.D.M. 10/4/07

CATCH BASIN CURB INLETS

7030 Catch Basin Curb Inlets

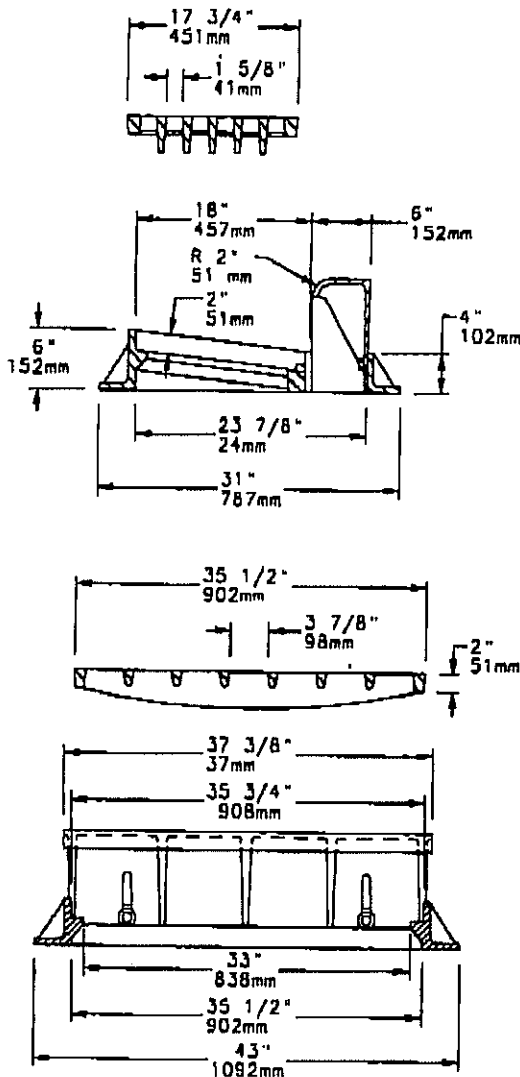
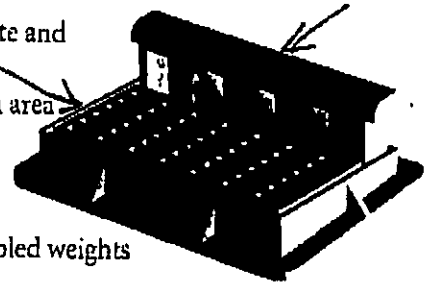
Heavy Duty

With Type M2 Grate and
T1 Back

260 sq. inches open area

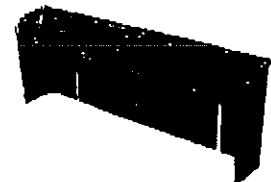
Curb adjustment
from 3 1/4" to 9"
(83mm to 229mm)

See table for assembled weights



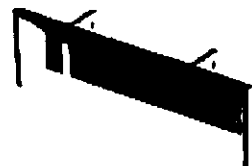
TYPE M3 Diagonal Bar Grate
Approx. 315 sq. inches open
area, 2 1/8" wide opening
between bars
Not recommended
for bicycle traffic

TYPE T3 Back
12" (305mm)
Concave Curb Radius
No Curb Adjustment
120 sq. inches open area



TYPE M4 Vane Grate
Approx. 260 sq. inches
open area

TYPE T4 Back
3" (76mm) Curb Radius
Curb Adjustable 6" to 11"
(152mm to 279mm)



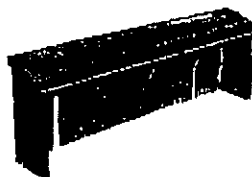
TYPE M5 Diagonal Bar Grate
Approx. 225 sq. inches
open area, 1 1/4" wide opening
between bars
Not recommended for bicycle traffic

TYPE T5 Back
No Curb Radius
Curb Adjustable 4 1/2" to 8"
(114mm to 203mm)



TYPE M6 Vane Grate
Approx. 220 sq. inches
open area

TYPE T6
Light Weight Back
3" (76mm) Curb Radius
Curb Adjustable 6" to 10"
(152mm to 254mm)



TYPE T2 Back
12" (305mm) Curb Radius
Curb Adjustable 4" to 9"
(102mm to 229mm)

Table of Assembled Weights					
BACK TYPE	GRATE TYPE				
	M2	M3	M4	M5	M6
T1	560 lbs (254kg)	520 lbs (236kg)	530 lbs (249kg)	550 lbs (249kg)	520 lbs (236kg)
T2	345 lbs (156kg)	505 lbs (229kg)	335 lbs (152kg)	535 lbs (243kg)	505 lbs (229kg)
T3	525 lbs (238kg)	485 lbs (220kg)	515 lbs (234kg)	515 lbs (234kg)	485 lbs (220kg)
T4	380 lbs (172kg)	540 lbs (245kg)	370 lbs (168kg)	570 lbs (259kg)	540 lbs (245kg)
T5	495 lbs (225kg)	455 lbs (206kg)	485 lbs (220kg)	485 lbs (220kg)	455 lbs (206kg)
T6	525 lbs (238kg)	485 lbs (220kg)	515 lbs (234kg)	515 lbs (234kg)	485 lbs (220kg)



Huth

READY MIX & SUPPLY COMPANY

Pride in our Product...
Proud of our Drivers

SEPTEMBER 26th, 2007

PHONE (330) 833-4191 • FAX (330) 833-4199
501 FIFTH STREET N.W. • P.O. BOX 524
MASSILLON, OHIO 44648-0524

DAVE SCHOENLEIN

THE SHELLEY CO.

CITY OF MASSILLON CHERRY ROAD PROJECT

MIX DESIGN

ODOT CLASS C / LIMESTONE

ONE(1) CUBIC YARD

CEMENT-TYPE I----- 600 lbs.
CONCRETE SAND-----1325 lbs.
#57 LIMESTONE-----1700 lbs.
WATER-----26 Gallon
AIR ENTRAINMENT----- 5/8 Oz. 7.100#

Roger L. Huth

ROGER L. HUTH,
PRESIDENT



Building Industry Association
of Stark County



BUILDERS EXCHANGE
OF EAST CENTRAL OHIO
Canton, OHIO



ok from C.O.M.
10/4/07

PRODUCER: ALLIED CORP., INC.
 PROJECT: _____
 SPEC.(NO./DATE): _____

DATE SUBMITTED: 9/26/2007
 MIX TYPE: TYPE 1 (MED/SURF)
 TRAFFIC VOLUME: MEDIUM

JMF

BM13421-73-JMF-VIR

MIX GRADATION
U.S. SIEVES

2	100
1 1/2	100
1	100
3/4	100
1/2	100
3/8	96
#4	54
#8	38
#16	30
#30	19
#50	8
#100	4
#200	2.2

PG. CONTENT @ MAX. UNIT WEIGHT: N/A
 PG. CONTENT @ MEDIAN VOIDS: 6.0
 PG. CONTENT @ MAX. STABILITY: N/A

* OPTIMUM PG. CONTENT: 6.0
 FOR RAP DESIGN: 6.0
 VIRGIN PG.: 64-22

Thompson McCULLYPG. REQUIRED BY PROPOSAL: 64-22

* CONSULT APPLICABLE SPECIFICATION FOR
 METHOD OF OPTIMUM DETERMINATION

F/A= 0.37 F/T= 0 TSR= 76.5

COARSE AGGREGATE:

%	SIZE	TYPE	PRODUCER / LOCATION	CODE
60%	#8	GR	ALLIED CORP., INC. MASSILLON, OHIO	

FINE AGGREGATE:

%	SIZE	TYPE	PRODUCER / LOCATION	CODE
40%	SND	NAT	ALLIED CORP., INC. MASSILLON, OHIO	

RAP:

%	DESCRIPTION **
0%	

** IF TAKEN FROM STATE ROUTE ENTER STATE ROUTE AND PROJECT. IF NON-STATE ROUTE ENTER SIZE, TYPE AND SOURCE / LOCATION OF FINE AND COARSE AGGREGATE — ALSO SOURCE OF INFORMATION.

290 F Compaction Temp

***** FOR OFFICIAL USE ONLY *****

AT OPTIMUM A.C. CONTENT:

STAB.) _____ MAX. THEORETICAL) _____ ORIG. REC.) _____

FLOW) _____ MEDIAN AIR VOIDS) _____ RESUBMIT REC.) _____

% AIR VOIDS) _____ DESIGN: 5 POINT) _____ CALIBRATION NO.) _____

UNIT WT.) _____ JMF NO.) _____

V.M.A.) _____ DATE APPROVED) _____

ole
 JMF
 C.O.M.
 10/4/07



MARSHALL MIX DESIGN

Producer	73		
Project			
Spec	441	Year	2005

ODOT SPEC. BAND			
Sieve	% Pass	Low	High
2" (50.8)	100	100	100
1-1/2" (38.1)	100	100	100
1" (25.4)	100	95	100
3/4" (19)	93	85	100
1/2" (12.7)	79	65	85
3/8" (9.5)	67		
#4 (4.75)	46	35	60
#8 (2.36)	34	25	48
#16 (1.18)	26	16	36
#30 (0.6)	17	12	30
#50 (0.3)	10	5	18
#100 (0.15)	5	2	10
#200 (0.075)	3.0		

Mix Type	Type II
Usage: ("T" for Surface)	Intermediate
Traffic Designation: ("T" Heavy, "I" Light)	Medium
Line Item Reference Number(s)	26, 28
% Binder Content @ Max. Stability	-
% Binder Content @ Max. Unit Weight	-
% Binder Content @ Opt. Air Voids	4.7
Max. Theoretical @ Optimum	2,430
PG Grade by Proposal	64-22
% Virgin Binder	4.7
Virgin Binder Grade	64-22
Binder Supplier	MTI
Polymer Type (SBR -or- SBS)	-
Mixing Temperature	310 F
Compaction Temperature	290 F
F/A Ratio	0.6 OK
50 - 30 Ratio	-1 OK
TSR Ratio	80.8 OK
Loaded Wheel Test Results	

NOTES:

Coarse aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
20	8	GR	ALLIED CORP / MASSILLON, OH	4316	2.551
40	57	GR	ALLIED CORP / MASSILLON, OH	4316	2.566
Fine aggregate					
%	Size	Type	Producer/Location	Code	ODOT Gsb
40	SND	NAT	ALLIED CORP / MASSILLON, OH	4316	2.606
*RAP					
%	% AC	Type	Source	Composition	Gse

*If RAP taken from State route, enter State route and project.

If other recycled material, or RAP taken from non-State route, enter size, type and source/location of fine and coarse aggregate, and source of information.

Blend Gsb = 2.579

For Official Use Only					
AT OPTIMUM AC CONTENT:					
Original Rc'd:	Resubmit Rc'd:	Air Voids	VMA	Unit Wt	
				(a)	(m)
				1.971	
Maximum Theo.	Stability	Flow	Opt. At Median Air Voids?	2 Points Above and Below Opt.?	
Date Approved	JMF			Calibration #	
	B446028			6028	

GE2004

84 JMF C.O.M.
10/4/07