Volume 1 of 2
Maintenance, Inspection, and Monitoring Manual
I-471 Mt. Adams
Cincinnati, Ohio

Final - April 1988
(Revised September 1991 - Shannon & Wilson, Inc.)
(Revised October 2000 - The Ohio Department of Transportation, District 8)
(Revised November 2003 - The Ohio Department of Transportation, District 8)

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

PREFACE

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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ii

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Construction activities for the I-471 Mt. Adams interchange project included remedial

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v

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and figures, tables, and samples of checklists to be used to document specific observations

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• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and inspection tasks. Part I summarizes the general surveillance program. Part II presents

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the maintenance, operation, and inspection program. The instrumentation measurements for

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

all inspection areas are discussed in Part III. Part IV contains reference material mentioned

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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in Parts I, II, and III. Also, Part IV includes samples of checklists and instrumentation

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

reporting figures. The checklists and reporting figures will be made available in electronic

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I-471 MT. ADAMS
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format. In addition to the checklists, a General Inspection Schedule (Table I), and an

I-471 MT. ADAMS
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AREAS ABOVE & BELOW CYLINDER PILE WALL

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SHEET 1 OF 2

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Instrumentation Monitoring Schedule (Table VI) are presented to provide the basic

xx

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I-471 MT. ADAMS
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framework for all observation, inspection, and monitoring tasks. Parts I and II are divided

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I-471 MT. ADAMS
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into four sections that coincide with the four areas of construction activities including the

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I-471 MT. ADAMS
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Buttress Fill, the Tied-Back Cylinder Pile Wall, the Anchorage Tunnel, and the Areas Above

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and Below the Cylinder Pile Wall. Part III is also divided into four sections: inclinometers,

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piezometers, cylinder pile wall and anchorage tunnel, and survey data. Volume 2 contains

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

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REMARKS:

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Appendix A and B. These appendices include instrumentation Service and User's Manuals

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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(Appendix A) and Tunnel Equipment Manufacturer's Literature (Appendix B). This volume

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This manual was developed by Shannon & Wilson, Inc., with extensive input from Hazelet

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& Erdal Consulting Engineer, City of Cincinnati Engineering Division and the State of Ohio

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Department of Transportation. This manual was revised in October 2000 and November

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2003, by the State of Ohio Department of Transportation, District 8 with information

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

PART I. I-471 MT. ADAMS SURVEILLANCE PROGRAM

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

1. Project Background and Purpose of Construction 1

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

2.	Description of Construction	1

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PART II. MAINTENANCE, OBSERVATION, AND INSPECTION PROGRAM

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REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

1.	General	7

lii

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

liii

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

lv

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.1 Wall Railing Concrete 9

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.2 Cap Beam Concrete 10

lix

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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TABLE OF CONTENTS (cont.) Page

I-471 MT. ADAMS
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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3.4.2 Horizontal Drain Discharge at Manhole No. 19 16

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
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TABLE OF CONTENTS (cont.) Page

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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

PART III. INSTRUMENTATION MONITORING AND SURVEY PROGRAM

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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[illegible]	Minor rust on lid & casting. [illegible] Water gas. Seepage over bricks.		Inlet – Dry [illegible] Water	Good condition. [illegible]tion joint at 3' from bottom cracked.

PART IV **FIGURES, TABLES, SAMPLE CHECKLISTS, SAMPLE INSTRUMENTATION REPORTING FIGURES, AND TENDON SURVEILLANCE PROCEDURES**

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage between [illegible] sewer and seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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Figure No. SECTION 1. LIST OF FIGURES

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1 General Site Plan

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

2 Buttress Fill Area Plan

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3 Typical Cross Section of Buttress Fill Area

CXXX

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4A Cylinder Pile, Instrument, and Drain Locations

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4B Cylinder Pile, Instrument, and Drain Locations

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

5 Tunnel Anchor Tendon Details

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

6 Rock Anchor Tendon Details

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

7A Cylinder Pile Wall As-Built Excavation Record

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

7B Cylinder Pile Wall As-Built Excavation Record

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

8	Upper End Tendon Head Assembly Piles 1 through 137	

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

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DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

9A Cylinder Pile Wall Drainage Plan

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

TABLE OF CONTENTS (cont.)

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Brick [illegible] sewer pipe. Seepage over bricks.		Inlet – Dry Outlet Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

Figure No. SECTION 1: LIST OF FIGURES (cont.)

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

9B Cylinder Pile Wall Drainage Plan

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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CHECK LIST 5.4
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

9C Drainage, Retaining Wall, and Concrete Reaction Block Plan

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

10A Profile of Tunnel

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

10B Profile of Tunnel

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

11 Tunnel Section Anchor Block and Tendon Assembly Detail

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

12 Profile of 12" Conduit from Tunnel to MH 17

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

13 EDM Control Point & Reference Point Survey Data & Site Plan

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

14 Detail of Tendon Connection to Cylinder Piles 1 - 137

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

15 Detail of Tendon Connection to Cylinder Piles 138 - 161

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

16 Manhole No. 17

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REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

17 Circuit Board Diagram, Access Shaft Building

cli

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

18 Estimated Tunnel Water Depth if Sluice Gate is Closed

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REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

A-1.4 Inclinometer Warning Level Site Plan

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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CHECK LIST 5.4
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

E-1 Piezometer Location Plan

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REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

C-1 Surface Survey Reference Point Locations

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REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

C-3 Survey Line Plan

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

B-4.1 Location of Anchor Block Measurement Points

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

D-3 Ramp P (Pier No. 7) Measurement Locations

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

clx

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

TABLE OF CONTENTS (cont.)

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong odor Cover [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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I General Inspection Schedule (2 pages)

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III Grease Cap Removal Schedule

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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

IV Quality Control Procedures for Buttonheads

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

V Tendon-Surveillance Inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

VI Instrumentation Monitoring Schedule

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

2.2 Drainage Facility Inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.1/3.1.2 Concrete Inspection (Railings & Cap Beams) (3 pages)

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

3.1.3	Concrete Inspection (Cylinder Piles) (2 pages)	

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.4 Concrete Inspection (Shotcrete Between Piles) (2 pages)

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.3.1/3.3.2 Bearing Plate Contact & Bearing Plate Assembly Hardware *

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.3.3 Grease Cap Removal and Inspection *

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.1 Inspection of Installed Equipment

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.2.1	Concrete Inspection (Access Shaft)	

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.2.2 Concrete Inspection (Tunnel Invert)

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.2.3 Concrete Inspection (Tunnel Liner)

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.2.4 Concrete Inspection (Anchor Blocks)

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.3.3 Grease Cap Plug Water Check

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.3.4 Grease Cap Removal and Inspection *

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4.4.1A & B Vertical Drain Inspection & Sidewall Drain Inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

* Electronic format not available.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

TABLE OF CONTENTS (cont.)

CXC

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

Sample Checklist No.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
[illegible]	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

4.4.2/4.4.3	Tunnel Drainage Inspection (Includes Access Shaft Sidewall Drains and Discharge Drain)

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

5.2 Retaining Wall 2, 4, 9, 13, 15, 17, &18 Structure Inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

5.3 Tiedown Reaction Block Inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

5.4 Drainage Facilities Inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¼ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Cracked pipe. Level with bricks.		Inlet – Dry Water	Good condition. Construction jt. @ 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

Sample Figure No.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

A-2.1 Inclinometer Cumulative Displacement Profile

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

A-3.1 Inclinometer Time Displacement Profile

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

E-2.2 Piezometer Water Level

cc

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

B-1 Tendon Load Cell Measurements

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REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

B-3 EDM Wall Displacement Measurements

ccii

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

B-4 Tunnel Anchor Block Extensometer Measurements

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

C-4.1 Survey Line Measurements

cciv

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

C-4.1a Change in Distance Survey Line Measurements

ccv

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

D-1 Ramp P EDM Displacements

ccvi

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

D-2 Ramp P Extensometer Displacements

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

SECTION 5: TENDON SURVEILLANCE PROCEDURES

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

PART I

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

I-471 MT. ADAMS SURVEILLANCE PROGRAM

REMARKS:

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PART I. I-471 MT. ADAMS SURVEILLANCE PROGRAM

REMARKS:

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CINCINNATI, OHIO

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REMARKS:

1. Project Background and Purpose of Construction

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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A portion of the I-471 highway project connecting Kentucky and Ohio was designed to pass

REMARKS:

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along the southwest flanks of Mt. Adams with several proposed ramps in the vicinity of Mt.

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Adams. These ramps connect to existing arterials and provide local access (Figure 1).

I-471 MT. ADAMS
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Landslides developed during initial construction of I-471 nourthbound and associated ramps

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

in the Mt. Adams area in late 1973 and early 1974. These landslides forced the temporary

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shutdown of construction activity on the project until slide stabilization measures were

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

designed and constructed.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The remedial stabilization measures (HAM-471-0.24 Part One) which began in 1980 and

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

were completed in 1983, included constructing a large buttress fill, a tied-back concrete

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cylinder pile wall, and an anchorage tunnel, located as shown on Figure 1. The purpose of

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

this construction was to stabilize the lower flanks of Mt. Adams so future construction of I-

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471 highway and interchange excavations could be made along the toe of the original

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hillside while limiting additional ground movements uplsope of Kilgour Street.

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A second contract (HAM-471-0.24 Part Two) was started in 1983, and completed in 1985. It

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

involved construction of permanent northbound and southbound lanes for I-471 and several

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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

ramp structures connecting I-471 with existing Columbia Viaduct and other local routes.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

This work included numerous retaining walls, cuts and fills, bridge abutments, and other

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

elevated structures–generally non-specialized construction. It also included permanent tie

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down anchors on abutment slopes below Fort Washington Way and the Columbia Viaduct.

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This Maintenance, Inspection, and Monitoring Manual provides guidance on detailed

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monitoring of the performance of the work constructed under HAM-471-0.24 Parts One and

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2. Description of Construction

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The I-471 stabilization measures are composed of four parts that interact to maintain local

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slope stability; the Buttress Fill, the Tied-Back Cylinder Pile Wall, the Anchorage Tunnel,

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and the Downslope Ramp Structures. Each of these structures is briefly described in this

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

section.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

2.1 Buttress Fill

REMARKS:

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The Buttress Fill is located on the west end of the I-471 interchange complex as

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shown on Figures 1 and 2. It consists of compacted granular structural fill overlying

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

a gravel drainage blanket. Before excavation for the buttress fill began, a temporary

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tied-back soldier pile wall was installed along the north edge of the slide area to

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

maintain temporary slope stability. The area south of the wall was then graded down

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to the top of rock. The rock surfaces were benched and subsequently backfilled with

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the drainage blanket and granular fill; see Figure 3 for a typical cross section. A

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

system of perforated underdrains collects groundwater from the drainage blanket and

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

routes it into the storm drainage system (Figure 2). As the buttress fill construction

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

neared completion, the tiebacks for the soldier pile wall were detensioned and the fill

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

was continued up over the top of the wall. The surface of the buttress fill is covered

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with 2 feet of relatively impermeable compacted clayey soil intended to prevent

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

erosion and the intrusion of surface water. Several inclinometer casings and

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piezometers were installed uplsope of the Buttress Fill Area to monitor stability

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during and after construction.

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Because the Buttress Fill has an important function in maintaining slope stability at

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the west end of the I-471 interchange, any proposed future construction within the

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Buttress Fill Area and in areas immediately uplsope of the Buttress Fill should be

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thoroughly evaluated. The effects of any new construction on the integrity of the fill

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and local slope stability should be determined. Specific areas requiring evaluation

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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

prior to future development should include the buttress fill itself and the limits of the

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

detensioned tieback anchors as shown on Figure 2. Engineers and planners should be

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

aware that the soldier pile wall and buried tieback anchors are still in place along the

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

upper edge of the Buttress Fill Area. Although the tieback anchors were detensioned

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

as the buttress fill was constructed, they still present a considerable obstruction to

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

any future construction work in this vicinity; see Figure 2. In general, the Buttress

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Fill Area, as previously defined, should be designated as “off limits” for any new

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

construction.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

2.2 Tied-Back Cylinder Pile Wall

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The Cylinder Pile Wall extends eastward from the Buttress Fill to near the east end

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of Oregon Street. The alignment of the wall parallels Kilgour Street in the central

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

portions of the structure and curves upslope at each end, as shown on Figure 1. This

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

wall consists of 161 large-diameter concrete cylinder piles spaced approximately 1-

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

foot apart and reinforced with either a steel I-beam, a steel tube, or a conventional

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

rebar cage. The lower ends of the cylinder piles extend up to 25 feet into bedrock.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The upper ends of the piles are connected by a segment cap beam that runs the full

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

length of the wall. The cap beams are constructed with a vertical construction joint,

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I-471 MT. ADAMS
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and connect four or five cylinder piles, depending upon the pile diameter, as a unit.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Cylinder Piles No. 1 through 137 are individually tied back to tunnel deadman

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I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

anchorages using high capacity steel wire tendons. For plan location, see Figures 4A

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I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
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and 4B; for a typical section, see Figure 5. Cylinder piles 138 through 161 are

I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

individually tied back by permanently grouted rock anchors. For plan location, see

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Figure 4B; for a typical section, see Figure 6.

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The Cylinder Pile Wall was designed to carry the out-of-balance slide force from the

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

hillside north of the wall. This out-of-balance slide force includes the forces which

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

will occur several years after construction, until the hillside is completely stabilized.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Theses hillside loads were determined from inclinometer data to act perpendicular to

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Kilgour Street. Using this full design load, the wall was analyzed as a structure with

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

anchorage at the bottom (embedment 25 feet into rock) and ties (tendons) at the top.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The loads on the tendons were calculated and the tendons were sized based on a

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

working stress equal to 60 percent of their ultimate strength. The tendons consist of

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

an appropriate number of high tensile strength, single wires, each with a minimum

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tensile strength of 240,000 PSI. The cap beam was then designed so that if a tendon

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failed, the load carried by that pile would be transmitted to adjacent piles. During

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

construction, the full design load was initially loaded into each tendon anchor. In the

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curved portion of the wall where the tendons are constructed on radial lines, stressing

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NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of the tendons compressed the vertical joints of the cap beam, making the cap beam

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

act as a unit throughout the length of the wall. Therefore, with this built-in factor of

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

safety, if a tendon fails, there is no need for immediate concern; however, the failed

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tendon should be replaced as soon as possible because of the potential failure of an

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

adjacent or nearby tendon.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Typically, a 12-inch-thick shotcrete filler was placed between adjacent piles for the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

full length of the wall. This filler extends from the underside of the cap beam to

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

approximately 2 feet below the existing ground surface. It provides protection and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

lateral support of vertical drains located between adjacent piles. An as-built profile

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of the Cylinder Pile Wall is shown on Figures 7A and 7B. Figure 8 shows the details

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of the upper-end tendon head assembly.

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The Cylinder Pile Wall drainage system consists of slotted vertical drain pipes

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NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

surrounded by gravel installed between adjacent cylinder piles. These are connected

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to a horizontal perforated underdrain pipe that is installed along the downslope toe of

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the wall near the top of rock; see Wall Profile, Figures 7A and 7B. The underdrain

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

system discharges into Manhole No. 19, see Figures 9A, 9B, and 9C for Drainage

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Location plan. A number of the vertical drain pipes are accessible from the top of

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the cap beam along Kilgour Street and are identified in Figures 4A and 4B.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Instrumentation was included in the cylinder pile wall to monitor its performance.

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Figures 4A and 4B show the location of inclinometer casings installed immediately

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

upslope of the wall. Additional inclinometer casings are also located within certain

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cylinder piles along the wall. Cylinder piles 31 and 90 are also instrumented with

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

strain gages and soil pressure cells to determine stresses in the steel reinforcement

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and the surrounding bedrock. Stainless steel EDM (electronic distance

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

measurement) brackets are mounted at the ends of each cap beam segment to monitor

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

deformation of the top of the wall.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The area between the cylinder pile wall and the tunnel should be considered a

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

restricted zone. The tendons extending from the wall to the tunnel are spaced

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

approximately 8 feet apart and are stressed to loads up to 800 tons. The rock anchor

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tendons in piles 138 to 161 also present an underground hazard. The layout of these

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tieback anchors is shown on Figure 4B. State and City engineers and planners

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

should consider designating these two areas as "off limits" for deep excavation or

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underground construction work. These areas are shown on the Urban Design Plan

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and on zoning maps in the Department of Buildings and Inspections.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The anchorage tunnel is a 9-foot-diameter, horseshoe-shaped tunnel constructed in

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

claystone bedrock about 80 feet north of the cylinder pile wall and approximately

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

100 feet below ground surface. Concrete deadman anchorage blocks are located in

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the tunnel and are used to resist the individual tendon loads from cylinder piles 1

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

through 137. Figures 10A and 10B show the approximate relative location of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

137 anchor blocks along the south (downslope)side of the tunnel wall. Figure 11

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shows a typical tunnel section including an anchor block and lower-end tendon

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

assembly detail. Tunnel drainage discharges from the tunnel through Manhole No.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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17, located in plan on Figure 9B and in section on Figure 12.

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Instrumentation in the tunnel consists of two hydraulic tendon load cells, tendon and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tunnel wall extensometers, and anchor block movement reference points. The tunnel

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

has mechanical ventilation system, an emergency communication system, and a gas

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

detection system. Emergency escape ladders are located at both the vent and access

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shafts.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The buttress fill, tied-back cylinder pile wall, and anchorage tunnel, as described

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

previously, are designed to restrain slide loads encountered above Kilgour Street.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

However, because materials below Kilgour Street have essentially the same strength

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

parameters as those encountered upslope, the ramp structures and permanent slopes

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in the downslope areas are design to limit long-term downslope creep movements.

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As a result, the overall permanent slopes in the areas below the cylinder pile wall are,

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

in general, limited to 8 degrees. Localized cut slopes in the over consolidated clays

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are limited to 10 degrees. In areas where the required ramp grades could not be

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

located within these slope limits, the site soils were over excavated and replaced with

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

higher strength compacted fill material in conjunction with L-shaped reinforced

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

concrete retaining walls. Some of the retaining walls constructed on granular fill are

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shown on Figures 2 and 9C. Elsewhere, the ramps were designed as elevated

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structures.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

In the area below the existing Fort Washington Way Viaduct, steep cut slopes were

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

required to accommodate Monastery Street grades. Existing viaduct support piers

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and abutments on the slope further restricted suitable stabilization schemes. In this

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

area the slope was cut on a 2H (horizontal) and on a 1V (vertical) grade with a series

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of individual concrete reaction blocks, tied down against the cut slope to provide the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

needed lateral restraint to stabilize the hillside. These reaction blocks are shown on

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Figure 9C. The tiedown reaction block system consists of a drilled permanent earth

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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

anchor extending through the concrete reaction block with the anchor grouted in soil

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

(or rock) at a depth below the hillside.

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3. Purpose of Maintenance, Observation, and Inspection Program

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The construction of the Mt. Adams I-471 stabilization project represents a large civil

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engineering investment. The structures have a design life span of at least 50 years, and with

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proper maintenance, probably 100 years. As with bridge and other major civil engineering

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structures, it is necessary to perform periodic inspections and observations to be sure that the

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structures continue to function properly, and to detect as early as possible any unexpected

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behavior. Unattended minor maintenance and repair work can frequently grow into

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extensive major corrections. The key to long life, trouble-free structures consists of

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thorough periodic observations and repair of all deficiencies as promptly as possible. This

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

manual provides the inspection/observation schedule and a series of checklists for specific

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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4. Purpose of Monitoring Program

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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Instrumentation for this project was installed for the dual purpose of construction and long-

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term monitoring. During construction the primary purpose of monitoring was to determine

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the effectiveness of the construction measures in reducing downslope movement. Now that

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construction is complete, continued monitoring of certain instruments is necessary to verify

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Downslope Ramp Structures continue to perform satisfactorily. Monitoring data will also

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provide a database that may be useful in the event of future litigation.

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PART II

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

MAINTENANCE, OBSERVATION, AND INSPECTION PROGRAM

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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1. General

REMARKS:

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For the purpose of determining maintenance requirements, the observation and inspection

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work for the I-471 project is divided into four inspection areas: The Buttress Fill Area, the

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Cylinder Pile Wall, the Anchorage Tunnel, and the Areas Above and Below the Cylinder

REMARKS:

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Pile Wall. Each inspection area is included in a separate section to this part of the

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Maintenance Manual. These sections focus on required observations and specific inspection

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tasks. Instrumentation measurements for all inspection areas are discussed in Part III.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

To assist the inspector in making thorough observations and inspections, detailed checklists

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shall be used. These lists include only minimum anticipated observation and inspection

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tasks. Individual inspectors shall be alert for any unusual conditions and clearly describe

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any special observations they make.

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In addition to general routine observations and inspections, this part of the manual includes a

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discussion of the Tendon Surveillance Program. If there are indications that a cylinder pile

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wall or the anchorage tendon system is not performing within the design limitations, a

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detailed inspection of the individual tendons may be required. Requirements of the Tendon

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Surveillance Program can be found in Part IV. This surveillance will be accomplished under

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Special requirements and procedures are included to deal with backflooding in the anchorage

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tunnel in the event of Ohio River flooding.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

All general observation and inspection work is included on the General Inspection Schedule,

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Table I. Instrumentation monitoring and measurement work is shown on the Instrumentation

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Monitoring Schedule, Table VI in Part IV. Together these two schedules provide the basic

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

framework for the required observation, inspection and monitoring work. Figures that are

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

referenced in Part II of the Manual are presented in Part IV.

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The General Inspection Schedule lists a series of specific tasks for each inspection area. It

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

includes a list of any special equipment required to complete each task. Visual inspections

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shall be performed at 6-month intervals, supplemented by more detailed inspections once a

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

A formal technical report shall be prepared for permanent record and reference purposes, and

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to form a basis for major remedial work when required. This report must contain the results

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of the observations/inspections; including written summaries for each inspection item, color

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

photographs to supplement the written portion, completed checklists, and recommendations

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

for remedial/maintenance work. The report shall also detail significant changes that have

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

been discovered since the last inspection. The report shall be completed after each 6-month

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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inspection cycle. Three copies of the report shall be submitted to the ODOT Project

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Manager.

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2. Buttress Fill Area

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The Buttress Fill stabilizes the lower northwest flank of the Mt. Adams slope near the

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junction of Baum, Van Meter, and Monastery Streets. Figure 2 shows the location of the

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Buttress Fill, the buried soldier pile wall, and the approximate area of the detensioned

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tieback anchors. This figure also identifies the various drainage facilities in the Buttress Fill

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Area. Figure 3 shows a typical section through the Buttress Fill.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

2.1 Ground Surface Inspection

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Visual inspections shall be made to determine the general condition of the sloping

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

ground surface of the Buttress Fill. Inspectors shall look for evidence of surface

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cracking, surface settlement, erosion, surface movement, and evidence of

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groundwater seepage. In addition, inspectors shall examine the physical condition of

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the Van Meter and Monastery Street pavements above the Buttress Fill Area.

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The technical report shall document, by location and magnitude, any problems

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

observed in the Buttress Fill Area. Table I shows the frequency of these inspections

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and lists the necessary equipment required to complete the task.

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Visual inspections shall be made to determine the general performance of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

drainage facilities installed at the Buttress Fill. Figure 2 shows the location of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Buttress Fill drainage facilities. In general, groundwater collected from the drainage

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

blanket and underdrains is routed into Manhole No. 25 located beyond the east end

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of Retaining Wall No. 9. Surface runoff is collected in a gutter near the top of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

retaining wall and then routed into catch basin for eventual discharge into Manhole

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

No. 25. There is also a footing drain behind Retaining Wall No. 9 that discharges

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into this manhole.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Personnel inspecting the Buttress Fill drainage facilities shall look for clearance of

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the gutter at the top of the retaining wall, clearance of the catch basins and Manhole

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

No. 25, and estimate the volume of flow from each of the drains discharging into

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Manhole No. 25.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The inspection report along with checklist 2.2 shall be used to document the finding

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of the drainage facility inspections. Table I shows the frequency of these inspections

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and lists the necessary equipment required to complete the task.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3. Cylinder Pile Wall

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The Cylinder Pile Wall was constructed to maintain stability of Mt. Adams above Kilgour

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Street so excavations consistent with the grade requirements for the I-471 interchange could

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

be accomplished along the toe of the slope. Figures 4A and 4B show the location of the

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Cylinder Pile Wall and its relation to other features of the project. Figures 9A, 9B, and 9C

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

show the location of the drainage facilities associated with the Cylinder Pile Wall. Figures

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

7A and 7B present profiles along the front of the wall.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1 Concrete Inspection

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The wall is constructed of reinforced concrete and consists of a railing at the top, a

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cap beam below the railing, cylinder piles below the cap beam, and shotcrete

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

between the adjacent cylinder piles.

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The inspection report along with checklist 3.1.1 and 3.1.2 (combined together) shall

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

be used to document the concrete railing and cap beam inspections. A legend

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

describing typical crack orientations is also provided. Table I shows the frequency

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of these inspections and lists the necessary equipment required to complete the task.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.1 Wall Railing Concrete

REMARKS:

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The reinforced concrete railing extends from cylinder pile 34 to the end of

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the wall at cylinder pile 161. Both sides of the railing shall be visually

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspected to determine the general condition of the concrete. The location,

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

size, and orientation of any cracks, spalls, unusual offsets between segments,

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

or other deterioration shall be carefully noted and recorded.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.2 Cap Beam Concrete

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• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The reinforced concrete cap beam extends the full length of the cylinder pile

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

wall. Only the downslope side is exposed and available for visual inspection.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Where access is difficult because of the height of the wall, roadway ramps,

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

or other obstructions, it may be necessary to use binoculars or ladders to

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

make a thorough inspection and determine the general condition of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

concrete surface. The cap beam face adjacent to the vertical joints should be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

particularly noted since spalling occurred during initial tendon stressing and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

repairs were required. The location, size, and orientation of any cracks,

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spalls, or other deterioration, such as water seeps or staining, shall be

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carefully noted and recorded.

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Movement of the Cylinder Pile Wall is monitored with an extensive

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

electronic distance measuring (EDM) system. EDM target mounts consisting

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of stainless steel angle brackets are bolted to the concrete at the ends of each

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cap beam segment. It is important that these brackets remain securely

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

attached to the cap beam and not be disturbed. The concrete adjacent to the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

brackets may be more susceptible to cracking because of the bracket

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

mounting bolts. Any evidence of concrete deterioration adjacent to the EDM

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

mounts shall be documented. It is also essential that a continuous line of

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

sight be maintained between the EDM control points and the target mounts.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

All plant growth over the railing shall be kept clear of these brackets. Figure

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

13 shows the location and survey data for the EDM control points and

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reference points. Figures 7A and 7B show the Cylinder Pile Wall profile

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which can be used as a reference to locate positions along the railing and the

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cap beam.

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WEATHER 49°F
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MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.3 Cylinder Pile Concrete

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Each cylinder pile shall be visually inspected for concrete cracking and

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

spalling. The length, width, and nature or orientation of the cracks shall be

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

noted. Any deposits, such as calcium or iron-oxide deposits, shall also be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

indicated. Of particular importance is the area adjacent to the bearing plates

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

where the tendons and cylinder piles are connected. Because of the high

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tendon loads, this area is subject to stress concentrations; therefore, may

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

exhibit more deterioration. In addition, the steel reinforcement in some of

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the piles is close to the surface of the concrete. This area may also be subject

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to more deterioration as a result of differential thermal expansion and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

contraction.

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Checklist 3.1.3, along with the appropriate legend sheet, and the written

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

report shall be used to document the inspections of the cylinder piles. The

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

legend differentiates locations along the pile and provides abbreviations and

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

designations for cracks as well as foreign deposits, specifically calcium or

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

iron-oxide.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.1.4 Shotcrete Between Cylinder Piles

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Shotcrete was placed between adjacent cylinder piles to cover and protect the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

vertical drains constructed between the piles. All shotcrete shall be carefully

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspected for signs of cracking and spalling. Special attention shall be given

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to any evidence of water seepage or staining that may indicate improper

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

functioning of the drainage system behind the shotcrete. The lengths, width,

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and locations of cracks and all unusual conditions shall be carefully noted

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CHECK LIST 5.4
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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and recorded.

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Checklist 3.1.4 and the written report shall be used to document the

REMARKS:

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DRAINAGE FACILITIES INSPECTION

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspections of the shotcrete between the cylinder piles. The legend provided

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

with checklist 3.1.3 shall be used for the shotcrete inspection to differentiate

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

crack orientations and locations.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.2 Ground Surface Inspection

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The general surface soil conditions within about 25 feet downslope of the

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Cylinder Pile Wall shall be inspected at the same time the concrete inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

is conducted. The inspector shall look for surface cracking, settlement,

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

heave, surface erosion, soil creep, and groundwater seepage along the toe of

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the wall. Any wet marshy areas near the bottom of the wall may indicate that

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the wall drainage system is not working properly and that immediate repairs

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

are required.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The visual inspection report shall document, by magnitude and location, any

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

areas of concern in the ground surface in front to the Cylinder Pile Wall.

REMARKS:

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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3.3 Tendon Bearing Assembly Inspection

I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The tendon bearing assembly at the cylinder pile wall is shown on Figures 5 and 14

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

for the tunnel anchored tendons, and on Figure 15 for the rock anchored tendons.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The two types of bearing assemblies differ in that for the tunnel anchored tendons the

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

upper end steel bearing plates bear directly against the steel reinforcement of the

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cylinder piles. For the rock anchored tendons the upper end steel bearing plates bear

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

directly against the cylinder pile or cap beam concrete, or on a cement grout pad used

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to seat the plate against the concrete.

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The exterior portions of the bearing assembly consist of the galvanized steel bearing

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

plate, a grease cap, threaded studs and lug nuts, a vent plug on the grease cap, and a

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

brass extensometer head on selected grease caps. In general, the tendon bearing

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

assembly is visible from the ground surface below the wall. In some cases; however,

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it may be necessary to use a ladder to provide close access to the assembly and to

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enable detailed visual inspection.

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Checklists are provided to document general visual inspections of the tendon bearing

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

assembly at the cylinder pile location. Table I lists the inspection frequency and the

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

necessary basic equipment for these inspections.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.3.1 Bearing Plate Contact

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

A thorough visual examination of the bearing plate contact conditions at each

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cylinder pile shall be accomplished. Refer to Figures 5, 14, and 15. Water

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

may collect in any space between the back of the inclined bearing plate and

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the steel reinforcement, concrete, or grout pad possibly causing deterioration

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

or corrosion. This space, originally filled with grout or caulk, shall be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

carefully observed for signs of rusting, concrete cracking, spalling, or

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

staining. For cylinder piles 138 to 161, the tendon bearing plates bear

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

directly on concrete. Inspections of these piles shall include careful

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

observation of any cracking or spalling of the concrete or grout pad placed

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

beneath the bearing plate. The grout pad shall be picked or probed to

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

determine its integrity. Any loss of concrete or grout from beneath the

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

bearing plate could cause a reduction of tendon load and necessitate

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

retensioning. Damaged areas shall be brought to the attention of the ODOT

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Project Manager as soon as feasible.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The written report and checklist 3.3.1 shall be used to document the

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspections of the bearing plate contact for each cylinder pile.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.3.2 Bearing Assembly Hardware

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

All steel hardware shall be carefully examined for signs of rusting, pitting,

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

dents, missing lug nuts, vent caps, or extensometer fittings. Any missing

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

items shall be promptly replaced. Damage caused by vandals shall be

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

repaired. The observer shall look for evidence of rusting on any exposed

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

structural steel above the bearing plate. This area was painted, but future

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

weathering may require additional corrosion protection. The inspector shall

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

be alert for evidence of grease leaking from the base of the grease cap or

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

from the vent plug. A qualitative description of the leak shall be made. Any

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

evidence of the corrosion or precipitate deposits near a grease leak shall be

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

noted and recorded.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The report and checklist 3.3.2–included with checklist 3.3.1–shall be used to

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

document the inspections of the bearing assembly hardware for each cylinder

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pile. To provide uniformity in corrosion evaluations, a criteria used for

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

visual inspections of steel is provide in Table II.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.3.3 Grease Cap Removal and Inspection

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Grease cap removal and inspection of the grease, washers, shims, and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

buttonheads is a special task that requires the inspector to be very safety

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

conscious. All tendons shall be considered to be under full design load.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Observation and inspection work shall be performed from the side of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

bearing assembly so personnel do not position themselves directly in front of

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the buttonheads. Each buttonheaded wire has the potential for snapping off,

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and could inflict serious injury to anyone in its direct path.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The tendon wires were threaded through thick steel washers followed by cold

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

forming buttonheads at the end of each wire. Load is maintained by shims

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

located between the bearing plate and the washer. The tunnel anchored

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tendons use a two part threaded washer with exterior threads at the cylinder

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

pile bearing (upper) end. In the event that restressing or load adjustment is

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

necessary, a jack with a female coupling can be attached to this end of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

tendon by threading over the washer. Donut washers are used on the tunnel

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

(lower) end to these anchors and at the cylinder pile bearing (upper) end for

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the rock anchors. These washers have threaded central holes so that for

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

restressing or load adjustment, a jack with a male coupling can be attached to

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the tendon by threading into this central aperture.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Removal and inspection of the upper end grease caps for the tunnel tendons

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shall be coordinated with similar inspections of the lower end grease caps in

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the anchorage tunnel. Table III presents the schedule for removal and

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspection of all grease caps including the upper end caps for the tunnel and

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

rock anchor tendons, and the lower end caps for the tunnel anchors. This

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I-471 MT. ADAMS
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AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

schedule shall be followed unless the results of other inspection tasks

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

accomplished in the tunnel suggest modification. Section 4.3.4 provides

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

consideration for modification of Table III and inspection procedures for the

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

lower end grease caps in the anchorage tunnel. The ODOT Project Manager

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shall be contacted prior to deviation from the schedule established in Table

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

III.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

In accordance with Table III, selected grease caps shall be removed for

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DRAINAGE FACILITIES INSPECTION

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspection of the tendon. Excess grease shall be cleaned from the washer to

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

expose the tendon wire buttonheads. Any condensation or water in the

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

grease cap shall be noted. The observer shall describe the location of the

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

moisture and its approximate volume. An assessment shall be made

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

regarding the adequacy of the grease covering, the condition of the grease

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and O-ring; and evidence of corrosion of the shims, the washer, and the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

buttonheads. The inspector shall count the number of button heads and note

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

any that are cracked, split, or loose. Tolerances for buttonheads shall be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

evaluated in general accordance with the "Quality Control Procedures"

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established by the Prescon Corporation and provided in Table IV. UNDER

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

NO CIRCUMSTANCES SHALL THE INSPECTOR TAP OR TRY TO

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PRY TENDON BUTTOHEADS. Loose buttonheads or button heads that are

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

not fully seated on the washer may indicate broken wires. If such wires are

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

noted, then the relative position of the individual wire in the buttonhead

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pattern shall be recorded. If observed in a tunnel anchored tendon, a check

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shall be made to identify the broken wire at the other end of the anchorage.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

See Section 4.3.4.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

A failed buttonhead shall not be of immediate concern unless the number of

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

wires installed, less failed wires, is less than 98 percent of the design number

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of wires. A failed wire would include any of the following:

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

- Nick in the wire

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

- Loss of buttonhead

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

- Broken wire

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

- a wire more than 1-1/2 inches to short

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

- Fault or bend in the wire, etc.

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Once the inspection is complete, the grease cap shall be cleaned. The grease

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cap and tendon head shall then be repacked with grease and rebolted into

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

position.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Many of the grease caps on the cylinder pile wall are inaccessible and are

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

located up to 25 feet above the existing ground surface. A platform lift may

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

be required to remove these caps efficiently and safely.

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The report and checklist 3.3.3 shall be used to document the grease cap

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

removal and inspections of the upper end tendon head for the tunnel and rock

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anchor tendons.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Water pressure behind the Cylinder Pile Wall are dissipated by vertical

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

drains installed between adjacent piles. Several of these drains extend

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

through the cap beams, so access receptacles and cleanouts can be provided

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

at the ground surface. All of the vertical drains are connected to a horizontal

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

drain, either U-5 or U-6, located at the toe of the cylinder pile wall. These

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

drains extend along the full length of the wall and discharge into Manhole

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No. 19. Figures 4A and 4B show the plan location of the existing access

I-471 MT. ADAMS
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AREAS ABOVE & BELOW CYLINDER PILE WALL

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DRAINAGE FACILITIES INSPECTION

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

receptacles for the

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vertical drains. Figures 9A and 9B show the plan location of the horizontal

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drains and Manhole No. 19. Figure 7A and 7B present the horizontal drains

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

in profile.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The inspection report shall document suspected problems in the vertical

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

drains and the horizontal drain discharge. Table I gives the frequency of

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

these inspections and lists the necessary equipment to complete them.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.4.1 Vertical Drains

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Two-inch-diameter, perforated vertical drain pipes were installed

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

between cylinder piles to provide drainage and prevent the buildup of

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hydrostatic pressure behind the cylinder pile wall. These pipes are

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

surrounded by gravel and are located behind a 12-inch-thick shotcrete

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cover. The drains extend from the underside of the cap beam down

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to the top of rock level, and are connected to a horizontal drain that

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

runs along the cylinder pile wall. Fifty-three of these drains extend

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

through the cap beam to access receptacles located at the ground

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

surface. Inspection of the wall drainage system shall include checking

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

these vertical drains with an electric water level indicator to

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

determine that they are functioning properly. Blocked drains shall be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

flushed with water. It shall be noted that all the drains were not

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

installed completely vertical. A few of the drains were constructed

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

with angled couplings around concrete protrusions on the cylinder

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piles. There are no records that indicate which drains are built as

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

such. Therefore, if a drain appears to be blocked, and after flushing

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

still appears blocked, it may be due to the above conditions. The

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

location of blocked drains shall be recorded. When replacing the

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

caps of the access receptacles to the vertical drains, the threads shall

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

be greased to allow for easy removal during subsequent inspections.

REMARKS:

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CINCINNATI, OHIO

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

3.4.2 Horizontal Drain Discharge at Manhole No. 19

REMARKS:

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

All of the vertical drains between adjacent cylinder piles are

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

connected to a horizontal drain designated as either U-5 or U-6.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

These drains discharge into Manhole No. 19 located downslope, in

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the general vicinity of cylinder pile Nos. 94 and 95. A thorough

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspection of the wall drainage system shall include removing the

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cover of Manhole No. 19 and evaluating the volume of water flow

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NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

and any evidence of sediment deposition.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4. Anchorage Tunnel

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The main portion of the Cylinder Pile Wall is anchored with tendons tied back to deadman

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

anchor blocks located in a tunnel which is constructed about 80 feet upslope of the Cylinder

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Pile Wall. Figures 4A and 4B show the general location of the tunnel. The tunnel includes

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

137 concrete anchor blocks, access shaft, a ventilation shaft, and an extensive drainage

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

system. The tunnel and access shaft are lined with reinforced concrete and shotcrete while

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the ventilation shaft is constructed with a steel liner. The tunnel complex (the access shaft

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

building, access shaft, tunnel, vent shaft, and vent shaft building) contain mechanical and

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NO. 6	Minor Rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

electrical equipment including a gas detection system, a forced air ventilation system, an

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emergency phone/intercom system, and a manlift.

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Keys for access to the tunnel will be provided to the consultant. Additional keys are

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

available from the Ohio Department of Transportation Project Manager.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The following safety checklist provides procedures for entering and exiting the tunnel.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

These routines shall be followed each time the tunnel is accessed regardless of the length and

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

nature of the visit.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

1. Enter the access shaft building and view the circuit breaker box. Determine

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

if circuits 5, 9, and 12 (room light, gas detector, and telephone) are operating.

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

These circuits should be functioning continuously. Turn on the remainder of

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the circuits as shown on Figure 17. The gas level within the tunnel, as noted

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on the gas detection meters, shall be monitored prior to activation of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

ventilation fan which will be accomplished at the vent shaft building near the

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east end of the tunnel.

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

2. Move to the ventilation shaft building and unlock the stainless steel breaker

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

box located on the service pole nearby. Check the fan switch for "Forward"

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CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

mode and relock the box. Unlock and enter the hatch of the ventilation shaft

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

building. Turn on the light switch, which also turns on the power for the rear

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

half of the tunnel telephone system, and move the inside fan control switch to

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NAME AMG / BDD
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the "ON" position. Exit the ventilation shaft building, closing and locking the

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I-471 MT. ADAMS
CINCINNATI, OHIO

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

hatch lid. Move back to the access shaft building.

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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3. Reenter the access shaft building, and after the fan has been operating for at

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

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SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

least 10 minutes, note again the reading on the gas meters. The gas level

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I-471 MT. ADAMS
CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

should be the same or lower than the initial readings observed in Step 1. If a

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I-471 MT. ADAMS
CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

safe level or no gas is indicated by the green light on the meter box, leave the

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I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

fan operating in the forward mode and proceed to Step 5.

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I-471 MT. ADAMS
CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

4. The presence of gas in the tunnel is indicated on the gas meters by an amber

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

light (greater than 20% Lower Explosive Limit (LEL)) with the danger level

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

indicated by a red light (greater the 40% LEL). If gases are in the tunnel, the

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

fans should be switched to the reverse mode, thereby pulling air out of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

ventilation shaft, while monitoring the gas detection system. It should be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

noted that the fan directional controls are located on the service pole adjacent

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to the ventilation shaft building. To change the direction of the fan;

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

therefore, it will require either a second person, or a trip from the access shaft

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

to the vent shaft building. When a safe gas level is indicated, the fan shall be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

switched back to the forward mode and operated for an additional 10 minutes

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

before entering the tunnel. The fan must remain in operation at all times

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while the tunnel is occupied.

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WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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5. Before descending into the tunnel, the communications system should be

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

turned on in the vent shaft building and breaker No. 12 checked in the access

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shaft building. Picking up the telephone handset with the selector switch set

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

on the "emergency" position will automatically dial "911" and any emergency

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

situation can be reported directly to the operator.

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I-471 MT. ADAMS
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CHECK LIST 5.4
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DRAINAGE FACILITIES INSPECTION

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REMARKS:

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6. Before descending into the tunnel using the manlift, check that all access

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

doors are properly closed and that the manlift light is functioning. One

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

should be familiar with the location of all controls and possess an alternate

REMARKS:

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light source. The manlift has a maximum weight capacity of 500 pounds. A

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Portable gas detection monitor is required during entry and work in the

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anchorage tunnel. In addition, employees shall wear appropriate personal

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

protective equipment including harnesses for climbing exit.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

7. Upon arrival at the tunnel invert, the emergency phone system should be

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

checked for internal communication by setting the selector switch on position

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible] Pool	Good condition. Construction joint at 3' [illegible]

2 before talking into the handset. This transmits the voice to all other phone

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction Joint at 3' up Outlet Trickle

REMARKS:

stations within the tunnel complex. After this check, replace the phone and

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

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CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NAME AMG / BDD
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

reset the selector switch to position 1 for emergency "911" communication.

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Standing Water	Good condition. Construction joint at 3' from bottom cracked.

The atmosphere within the anchorage tunnel shall be periodically tested as

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible] water	Good condition. Construction joint at 3' [illegible]

necessary to ensure that the continuous force air ventilation is preventing the

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

accumulation of a hazardous atmosphere.

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Bonding [illegible]	Good condition. Constructing joint at 3' [illegible]

8. Observe the sump pit grating and discharge drain near anchor block No. 96 to

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

assure adequate drainage.

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

9. Proceed with maintenance, monitoring, or inspection tasks.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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I-471 MT. ADAMS
CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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10. After completion of the tasks, return to the Access Shaft Building via the

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction jt. at 3' [illegible] cracked.

manlift and shut off all circuit breakers except for Nos. 5, 9, and 12. Turn off

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SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the overhead light with the switch adjacent to the access door, and lock both

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I-471 MT. ADAMS
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AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

doors upon exiting.

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CINCINNATI, OHIO

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CHECK LIST 5.4
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Flow	Good condition. Construction joint at 3' [illegible]

REMARKS:

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11. Proceed to the Ventilation Shaft Building. Enter the hatch opening and turn

I-471 MT. ADAMS
CINCINNATI, OHIO

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CHECK LIST 5.4
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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line - Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

off the fan and light switches. Exit through the hatch and secure it with the

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I-471 MT. ADAMS
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

padlock. Check that the panel on the nearby service pole is also locked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

12. If a hazardous atmosphere is detected during entry:

REMARKS:

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line - Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

a. Each employee shall leave the space immediately;

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

b. The space shall be evaluated to determine houw the hazardous

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

atmosphere developed; and

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

c. Measures shall be implemented to protect employees from the

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CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3[illegible] from bottom cracked.

hazardous atmosphere before any subsequent entry takes place.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Emergency Exits

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint @ 3' from bottom [illegible]

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

1. Escape ladders are located in both the access and ventilation shafts. In the

I-471 MT. ADAMS
CINCINNATI, OHIO

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Cracks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' [illegible]

access shaft the guide rails for the manlift are equipped with non-slip ladder

REMARKS:

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I-471 MT. ADAMS
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rungs. In the ventilation shaft an aluminum ladder equipped with a "ladder

I-471 MT. ADAMS
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 6' from bottom cracked.

climber's safety device" and a safety belt is fastened to the inside of the shaft

REMARKS:

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I-471 MT. ADAMS
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liner. To provide access to this ladder, a short ladder has been attached form

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the tunnel.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

2. If the manlift malfunctions during operation and stops midway during travel,

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

the ceiling is equipped with an escape hatch providing access to the

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

emergency ladder.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Flowing [illegible]	Good condition. Construction joint at 3' [illegible]

REMARKS:

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3. If the escape ladder is used in the ventilation shaft, a hinged door is provide

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks?		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

in the steel shaft to provide access to the ventilation shaft building. Egress

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

form the building can be obtained through the lockable manhole cover.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line - Ponding [illegible] Water	Good condition. Construction joint at 3' from bottom cracked.

A general inspection of the interior and exterior of the access and ventilation shaft

REMARKS:

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] over bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

buildings shall be completed. All louvers and screens shall be maintained and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cleaned of leaves and debris. Any evidence of vandalism shall be recorded and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – [illegible] Seepage on bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

promptly brought to the attention of the ODOT Project Manager. General

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

deterioration of the buildings shall be noted including size and location of cracks in

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

the concrete.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

The report and checklist 4.1 shall be used to document inspections of the equipment

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint @ 3' [illegible] cracked.

installed in the Anchorage Tunnel. Table I shows the frequency of required

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

inspections and lists the basic equipment necessary to perform them.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Pooling Water	Good condition. Construction joint at 3' from bottom cracked.

Power to the access and vent shaft buildings shall be monitored. Distribution

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint @ 3' [illegible]

panels at the pole near the vent shaft building and in the access shaft building

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shall be checked. Lighting circuits shall be monitored. Burned out bulbs

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shall be replaced.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint up 3' [illegible]

In January 1995, a new gas monitor and sensor heads were installed. The gas

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Bonding [illegible]	Good condition. Construction joint at 3' [illegible]

detection system (MSA Model 5100) consists of two indicating units

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

mounted on the north wall of the access shaft building, and two sensors

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I-471 MT. ADAMS
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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

located in the tunnel approximately 270 and 760 feet east of the access shaft.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

This system is designed to sample and analyze the local atmosphere to detect

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DRAINAGE FACILITIES INSPECTION

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

the presence of flammable gases or vapors up to their lower explosive limit

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor sewage. Some loose bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

(LEL) in air. The presence of gas must always be checked before entering

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – Shows [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint @ 3' from bottom cracked.

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the tunnel. The control unit indicators in the access shaft include a gauge

I-471 MT. ADAMS
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

registering from 0 to 100% LEL, a white pilot light indicating power to the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

control unit, a green ready light indicating the system is operative, an amber

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line - Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

warning light indicating a gas level greater the 20% LEL, and a red alarm

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main line – Passing water	Good condition. Construction joint at 3' from bottom cracked.

light indicating a gas level greater than 40% LEL.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line - Bonding [illegible]	Good condition. Construction joint at 3' [illegible]

To quickly field check the system, one could release butane gas from an

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

appropriate source, such as a cigarette lighter, at each sensor and detect

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

corresponding movement of the control unit gauge. If a lighter is utilized, it

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible] water	Good condition. Construction joint at 3' [illegible] cracked.

shall not be ignited until it is determined that explosive gases are not present

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line - Ponding [illegible]	Good condition. Construction joint @ 6' from bottom cracked.

within the tunnel. The sensor heads should have a useful life of five to 10

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

years. If the system does not appear to be functioning properly, the ODOT

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

Project Manager shall be notified. The gas detection system shall be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Flooding [illegible]	Good condition. Construction joint at 3' [illegible]

REMARKS:

calibrated every three years. Calibration shall be performed in accordance

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

with the manufacturers instructions.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

The detailed operation of the gas detection system and its maintenance

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

requirements are described in the Manufacturer's literature presented in

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Appendix B, Volume 2.

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

Once the presence or absence of gas has been determined, the fan located in

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

the ventilation shaft building shall be operated. The fan selector switch is

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

located in the distribution panel mounted on a service pole just west of the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Seepage [illegible] Bricks.		Inlet – Dry Main Line – Flowing [illegible] Water	Good condition. Construction joint at 3' [illegible] from bottom cracked.

vent shaft building. Routine maintenance shall include exercising the fan for

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a minimum of 10 minutes in both the forward and reverse modes.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

The detailed operation of the ventilation fan and its maintenance

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

requirements are described in the Manufacturer's literature presented in

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

The manlift is an electrical elevator that is capable of transporting personnel

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

and small equipment up and down the access shaft. It has a maximum rated

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Flooding [illegible]	Good condition. Construction joint at 5' from bottom cracked.

capacity of 500 pounds. The consultant shall administer/coordinate the

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monthly routine maintenance of the elevator, the semi-annual State

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] over [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

Certification Inspection, all necessary repairs, and routine inspections of the

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elevator's condition by a qualified elevator technician.

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint @ 3' from bottom cracked.

The detailed operation of the manlift (Serial No. S/O-6123) and its

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

maintenance requirements are described in the Manufacturer's literature

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

presented in Appendix B, Volume 2.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint @ 3' from bottom cracked.

The safety equipment in the tunnel includes an aluminum ladder in the

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Flowing [illegible]	Good condition. Construction joint at 8' from bottom cracked.

ventilation shaft equipped with a “ladder climber’s safety device”, a short

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

ladder attached to the vent shaft escape ladder, a permanent safety ladder in

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

the access shaft, and emergency phones throughout the tunnel. Other safety

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewage. Seepage from bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

equipment, such as flashlights, protective clothing, and harnesses and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

associated equipment for climbing exit of the anchorage tunnel shall be

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

provided by each inspector, for each inspection.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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CHECK LIST 5.4
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

The access shaft phone and four tunnel phones are powered by a breaker

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CINCINNATI, OHIO

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DRAINAGE FACILITIES INSPECTION

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

switch on the panel box located in the access shaft building. This breaker

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Construction bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shall remain "on" continuously in order that the battery backup for the system

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Pooling [illegible]	Good condition. Construction joint at 3' [illegible]

will not be discharged. The vent shaft phone and four rear tunnel phones are

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I-471 MT. ADAMS
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AREAS ABOVE & BELOW CYLINDER PILE WALL

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DRAINAGE FACILITIES INSPECTION

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint @ 3' from bottom cracked.

powered by turning on the light switch inside the ventilation shaft building.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible] cracked.

These phones shall be monitored for proper working condition prior to

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

completion of the inspection tasks within the tunnel.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding water	Good condition. Construction joint at 3' from bottom cracked.

With the selector switch in position 2, the intercom system at both the access

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible] cracked.

and vent shaft buildings shall be checked, along with all eight phone stations

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 8' from bottom cracked.

located throughout the tunnel. Checking of the emergency position for access

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Seepage over bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

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to "911" shall be done annually. Emergency Services in the City of

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CINCINNATI, OHIO

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Construction bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

Cincinnati shall be contacted for procedures and requirements.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

In addition to the above, the communication equipment shall be inspected for

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

signs of corrosion, excessive moisture, or other potential damage.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

The detailed operation of the communication system and its maintenance

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

requirements are described in the Manufacturer's literature presented in

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

Appendix B, Volume 2.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The rolling service door of the access shaft building shall be maintained so it

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

operates freely and has adequate protection against corrosion (see Appendix

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Flowing [illegible]	Good condition. Construction joint at 3' [illegible]

B, Volume 2, for detailed operation). In addition, the escape hatch in the

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

ceiling of the manlift, the lockable manhole cover and the hinged emergency

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

exit in the ventilation shaft shall all be exercised and lubricated.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

A winch with a 700 pound capacity can be used in the access shaft. It can be

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Cracks [illegible] Debris.		Inlet – Dry Main Line – Ponding [illegible] Water	Good condition. Construction joint at 3' [illegible] Bottom Cracked

attached to the winch bracket mounted on the overhead steel beam.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] seepage over [illegible]		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Flooding [illegible]	Good condition. Construction joint at 3' [illegible]

Both the tunnel and the access shaft are lined with 10 to 12 inches of reinforced

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

concrete. In some areas the concrete was cast in place using wood or steel forms,

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

while at other locations shotcrete lining was installed.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

The inspection report and checklists shall be used to record findings of the in

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

of the concrete in the Anchorage Tunnel. Table 1 gives the frequency of these

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

inspections and lists the necessary equipment needed to perform them.

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The Access Shaft Liner Concrete shall be examined to determine location of

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

cracks, spalls, water staining, seepage, etc. The location, length, width, and

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – Several cracks Several cracks bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

orientation of the cracks and the areas of spalling shall be noted and

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recorded. Offsets across cracks or construction joints shall be noted. Any

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END TIME 3:20 p.m.

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NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

evidence of exposed reinforcing steel shall be recorded.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.

I-471 MT. ADAMS
CINCINNATI, OHIO

AREAS ABOVE & BELOW CYLINDER PILE WALL

CHECK LIST 5.4
SHEET 1 OF 2

DRAINAGE FACILITIES INSPECTION

BEGIN TIME 3:00 p.m.
DATE 10-4-99
NAME AMG / BDD
WEATHER 49°F
END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Bonding [illegible]	Good condition. Construction joint at 3' [illegible]

Checklist 4.2.1 shall be used to document the visual inspections of the access

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

shaft liner concrete.

REMARKS:

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible]		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor – sewer gas. Seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] breaks.		Inlet – Dry Main Line - Ponding [illegible]	Good condition. Construction joint at 3' from bottom cracked.

The Tunnel Invert Concrete shall be examined to determine location of

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NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line - Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

cracks, spalls, water staining, seepage, heaving, etc. The location, length,

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

width, and orientation of the cracks and the areas of spalling shall be noted

REMARKS:

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NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor Lower [illegible] bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint @ 3' from bottom cracked.

and recorded. Offsets across cracks or construction joints shall be noted.

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] brows.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

Any evidence of staining, precipitate, or freewater seepage through cracks or

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NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] Sandstone bricks.		Inlet – Dry Main Line – Ponding [illegible]	Good condition. Construction joint at 3' [illegible]

construction joints shall be recorded. Any evidence of exposed reinforcing

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END TIME 3:20 p.m.

MANHOLE NUMBER	APPEARANCE SATISFACTORY	DEBRIS OR SEDIMENTS	ESTIMATED FLOW RATE •	CRACKS IN FEEDER PIPES OR MANHOLE
NO. 2	Minor rust on lid. Minor seepage on lid. Odor – strong.		Inlet 2A is dry. Flow in 24" pipe is rapid. In 12" x ½" deep Out 16" x ¾" deep Pipe bends @ exit so flow is greater.	
NO. 3	Minor rust on lid. Rust around brim (casting). Minor odor. Exposed rust on lower half with map-cracking. NW side-not enough cover for rebar.		Trickle from 3B. Opening to side drain is dry. 24" pipe is 12" x ½" deep	Multiple map-cracking from top of inlet to 7' up. Asphalt & Ca stains from top. Minor seepage at map-cracking.
NO. 4	Rust on lid & casting. Seepage @ top. Casting is damp.		Rapid and Pulsating Flow. 8" x ½" deep	Constr. Jt cr on east side ~ 10' below top around circumference. V cr on south side – 3' with seepage. Constr. Jt. cr – 15' below top.
NO. 5	Rust on lid & casting. Strong odor (gas).		5A side drain is dry. MH4 flow is heavy & gushing at 12" x ½" deep. Trickle from MH6. Large elliptical hole about ¾ down on N side-dry-do not know where it is coming from.	Good condition. Construction jt. @ 3' from bottom cracked.
NO. 6	Minor rust on lid & casting. Minor seepage. Strong Odor [illegible] seepage over bricks.		Inlet – Dry Main Line – Ponding Water	Good condition. Construction joint at 3' from bottom cracked.

steel shall be noted.

REMARKS:

• ESTIMATE FLOW RATE BY NOTING PIPE DIAMETER AND THEN WHETHER PIPE IS FULL, HALF FULL, QUARTER, TRICKLE, OR DRY.