Appendix C

Storm Drain CCTV Inspection Forms

Lois Drive and 32nd Avenue Pathway MOA Pipe #28932 - W. 32nd Ave (west of Minnesota Dr)

General Inspection Data:

CCTV Date: 4/30/2020

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Upstream

Pipe Data:

Diameter/Material: 12" CMP Install Year: 1978

Flow Depth: No flow at time of CCTV

Debris/Obstructions: CCTV abandoned at 24.1 feet due to significant debris in invert,

minor to moderate debris from 6.3 feet to 19.7 feet.

Miscellaneous/Defect Notes: Pipe appears to be in good condition, but leaf buildup is restricting

flow. Looks like some root intrusion is possible along walls.



Lois Drive and 32nd Avenue Pathway MOA Pipe #12828 - W. 32nd Ave (west of Minnesota Dr)

General Inspection Data:

CCTV Date: 4/30/2020

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Downstream

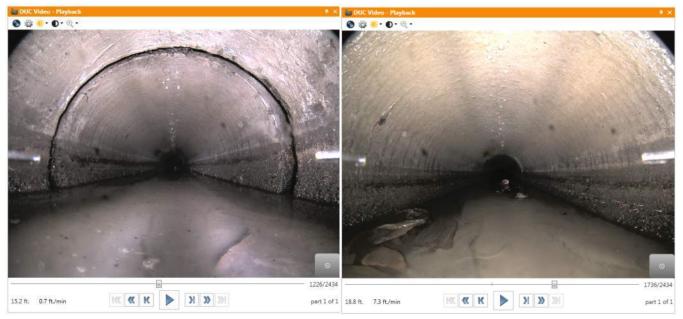
Pipe Data:

Diameter/Material: 15" RCP Install Year: 1978

Flow Depth: < 25% of full pipe flow

Debris/Obstructions: CCTV abandoned at 23.6 feet due to significant debris in invert. Miscellaneous/Defect Notes: Offset joints at 15.5 feet & 21.8 feet. Pipe exceeds 300 foot max.

manhole spacing per MASS.



Lois Drive and 32nd Avenue Pathway MOA Pipe #27764 - Lois Dr (north of W. 31st Ave)

General Inspection Data:

CCTV Date: 12/19/2019

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Upstream

Pipe Data:

Diameter/Material: 12" CMP Install Year: 1982

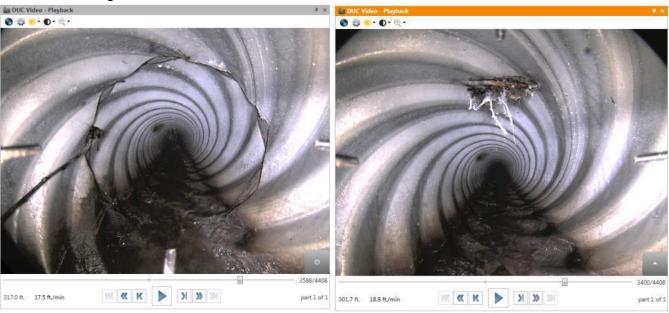
Flow Depth: No flow at time of CCTV

Debris/Obstructions: Minor to moderate debris present throughout length of pipe.

 $\textit{Miscellaneous/Defect Notes:} \ \ \text{Mineralization/infiltration at pipe joints at 132.1 feet, 197.3 feet \& 197.3 feet and 197.3 feet \& 197.3 feet & 197.3 feet$

216.6 feet. Root intrusion at pipe joints at 216.6 feet & 317.0 feet. 1"x4" gouge through pipe at 12 o'clock position at 301.7 feet, soil

visible.



Lois Drive and 32nd Avenue Pathway MOA Pipe #29551 - Lois Dr (south of W. 31st Ave)

General Inspection Data:

CCTV Date: 4/30/2020

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Upstream

Pipe Data:

Diameter/Material: 12" CMP Install Year: 1982

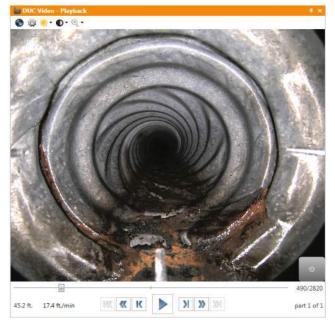
Flow Depth: No flow at time of CCTV

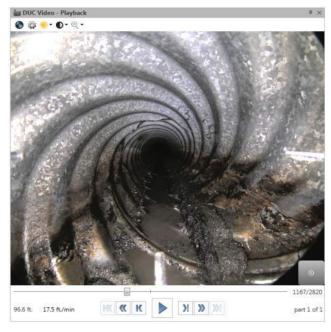
Debris/Obstructions: CCTV abandoned at 98.8 feet due to severe debris in invert, minor

to moderate debris present throughout remainder of pipe

inspected.

Miscellaneous/Defect Notes: Mineralization/Infiltration at pipe joint at 45.3 feet and 65.4 feet.





Lois Drive and 32nd Avenue Pathway MOA Pipe #25204 - W. 31st Ave (west of Lois Dr)

General Inspection Data:

CCTV Date: 12/19/2019

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Upstream

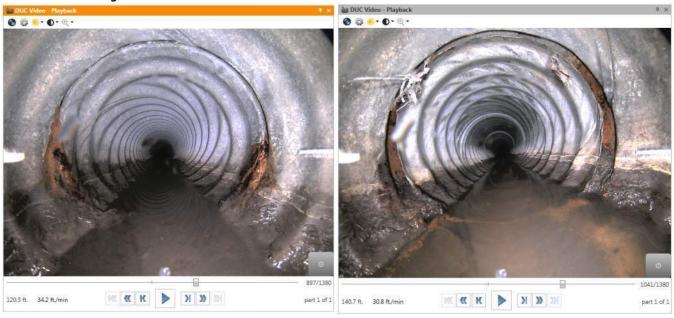
Pipe Data:

Diameter/Material: 15" CMP Install Year: 1982

Flow Depth: < 25% of full pipe flow

Debris/Obstructions: Minor to moderate debris present throughout length of pipe. Miscellaneous/Defect Notes: Mineralization/infiltration at pipe joints at 39.6 feet, 59.9 feet,

120.6 feet & 161.0 feet. Significant joint separation at 140.7 feet.



Lois Drive and 32nd Avenue Pathway MOA Pipe #30570 - W. 31st Ave (east of Doris St)

General Inspection Data:

CCTV Date: 12/19/2019

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Downstream

Pipe Data:

Diameter/Material: 15" CMP Install Year: 1982

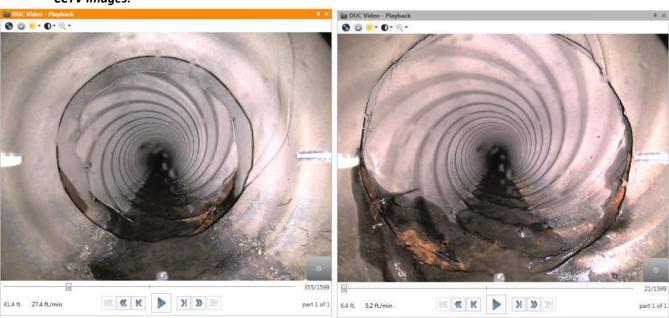
Flow Depth: < 10% of full pipe flow

Debris/Obstructions: Minor debris present throughout length of pipe.

Miscellaneous/Defect Notes: Minor metal loss/corrosion present throughout length of pipe.

Offset joint at 152.1 feet. Mineralization/Infiltration at pipe joint at 6.4 feet, 21.5 feet, 72.3 feet and 121.8 feet. Joint separation at

41.7 feet.



Lois Drive and 32nd Avenue Pathway MOA Pipe #13603 - W. 31st Ave (west of Doris St)

General Inspection Data:

CCTV Date: 12/19/2019

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Downstream

Pipe Data:

Diameter/Material: 15" CMP Install Year: 1982

Flow Depth: < 10% of full pipe flow

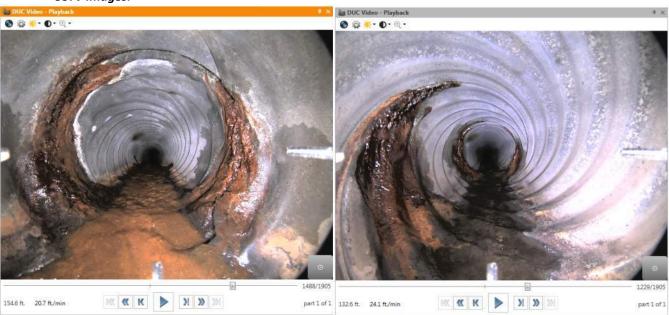
Debris/Obstructions: Minor debris present from 0 feet to 143.1 feet. Moderate to

significant mineralization present from 143.1 feet to end of pipe.

Miscellaneous/Defect Notes: Minor metal loss/corrosion present from 0 feet to 143.1 feet.

Moderate to significant metal loss/corrosion present from 143.1 feet to end of pipe. Mineralization/infiltration near flow line at 4 o'clock position at 131.1 feet. Mineralization/infiltration near along CMP seam at 9 o'clock position at 132.6 feet. Significant mineralization/infiltration at pipe joints at 114.2 feet, 134.3 feet & 154.9 feet. Surface damage/corrosion at 10 o'clock & 2 o'clock at

55.0 feet.



Lois Drive and 32nd Avenue Pathway MOA Pipe #27885 - Fish Creek Alignment (between Willow St & Doris St)

General Inspection Data:

CCTV Date: 5/15/2020

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Upstream

Pipe Data:

Diameter/Material: 48" CMP/Lined Install Year: Unknown

Flow Depth: < 25% of full pipe flow

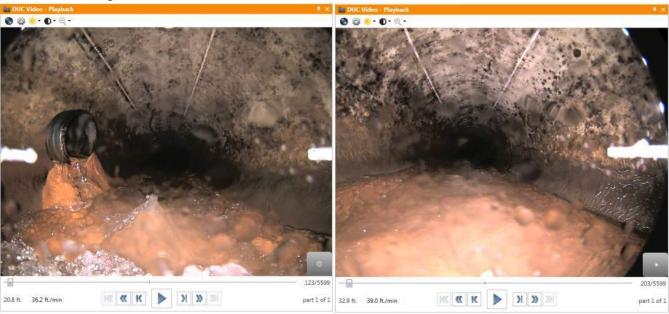
Debris/Obstructions: Moderate mineralization present throughout length of pipe.

Significant debris/blockage at 260.5 feet.

Miscellaneous/Defect Notes: According to CCTV operator, this pipe was previously lined with

CIPP. Operator noted lining failures at 32.9 feet, 60.3 feet, 131.6 feet & 182.1 feet. CPEP lateral at 9 o'clock position at 21.3 feet with significant mineralization at discharge point. CMP lateral at 11 o'clock position at 133.2 feet with moderate mineralization at

discharge point.



Lois Drive and 32nd Avenue Pathway MOA Pipe #33747 - Fish Creek Alignment (crosses Willow St)

General Inspection Data:

CCTV Date: 5/15/2020

CCTV Completed by: MOA Street Maintenance

CCTV Direction: Downstream

Pipe Data:

Diameter/Material: 48" CMP
Install Year: Unknown

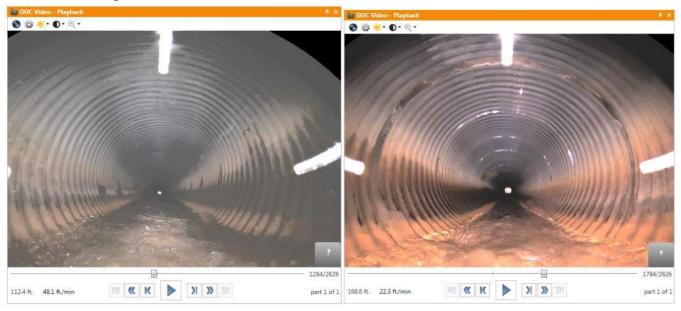
Flow Depth: < 25% of full pipe flow

Debris/Obstructions: Moderate mineralization present throughout length of pipe.

Miscellaneous/Defect Notes: Multiple holes in pipe from 7 to 9 o'clock position at 7.1 to 11.3

feet. Tee connection at 12 o'clock position at 12.9 feet. Hole in pipe at 4'oclock position at 45.9 feet. Crown of pipe deformed several inches at 112.4 feet. CCTV camera submerged at 129.5 feet. Joint separations at 148.0 feet, 168.6 feet & 189.0 feet. Angle

point in pipe at 263.7 feet.

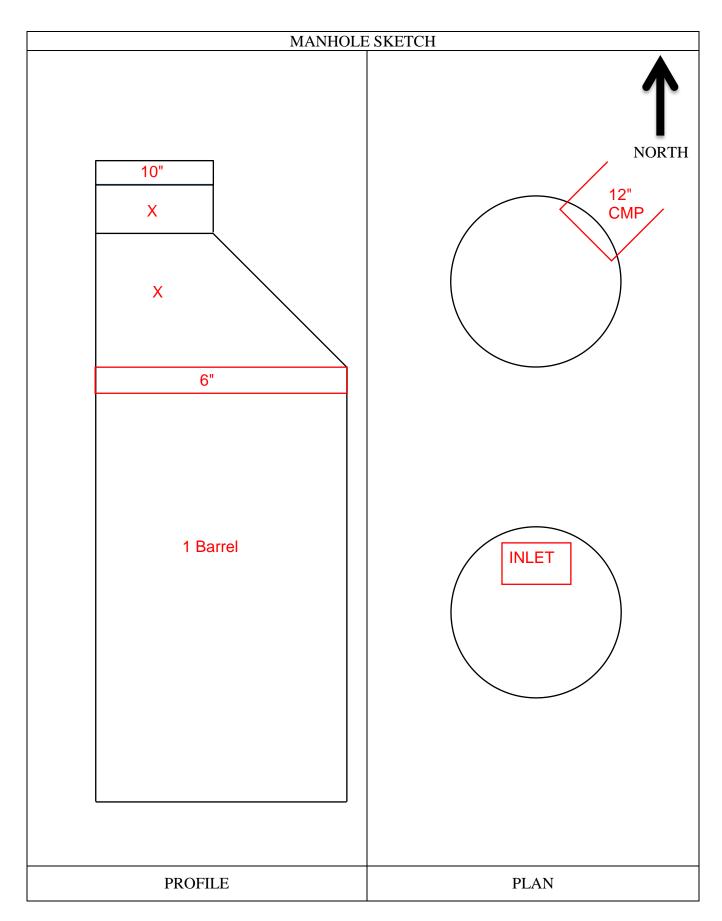


Appendix D

Storm Drain Structure Inspection Forms

INSPECTION DATE:	6/10/20		INSPECTIO	N TIME: _	9:50 AM
WEATHER:	Sunny		INSPECT	ΓED BY: _	Joey & Wayne
MANHOLE NUMBER:	CB #028	FIF	RST PHOTO NU	UMBER:	
APPROXIMATE LOCATION:	Intersection of	32 nd Ave	& unnamed alle	ey, SW cor	ner. 142 feet
APPROXIMATE LOCATION.	East of 32 nd Av	e & Wyo	oming Dr Interse	ection. Inlet	t lid in unpaved
	alley				
CC	ONDITION	POOR			→ GOOD
					> GOOD
CONDITIO	ON OF LID	1	2	3	4
CONDITION OF GRA	DE RINGS	_1	2	3	4
CONDITION O	F BARREL	1	2	3	4
CONDITION OF	FLADDER	1	2	3	4
CONDITION OF PIPE INLETS.	OUTLETS	\bigcirc	2	3	4
PRESENCE OF SOLIDS OR	BUILDUP		YES		NO
PRESENCE OF INFILTRATION	N/INFLOW	•	YES		NO
DEPTH/VOLUME	OF FLOW:		No	flow	
DIAMETER OF M	IANHOLE:		4' Cato	chbasin	

- Grout spalling at pipe penetration
- Non-standard inlet, 11.5" x 15", rectangular, frame depth 10"
- No grade rings, frame placed on reducing slab



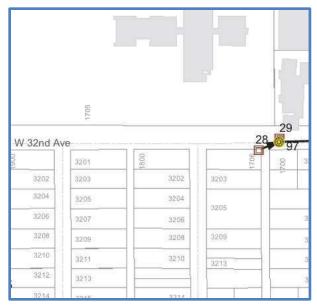


Photo 1 - Structure Location Map



Photo 2 - Inlet / Surrounding Area



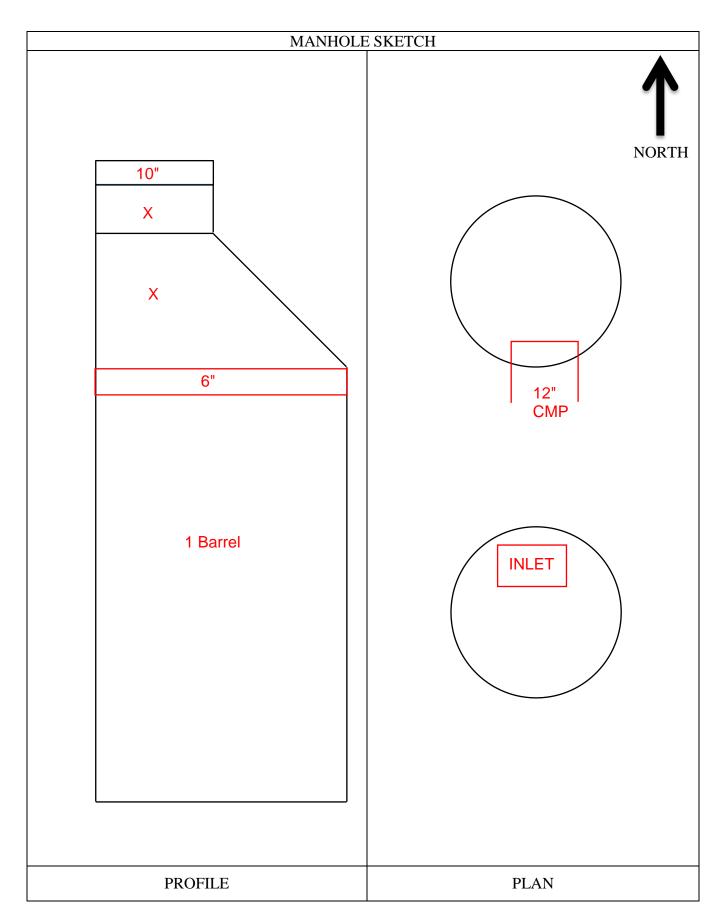
Photo 3 – Frame & Reducing Slab



Photo 4 – Outlet Pipe Penetration

INSPECTION DATE:	6/10/20		INSP	PECTIO	N TIME: _	9	:40 AM
WEATHER:			11	NSPECT	ΓED BY: _	Joey	y & Wayne
MANHOLE NUMBER:	CB #029	FI	RST PH	OTO NI	JMBER: _		
APPROXIMATE LOCATION:	Intersection of	of 32 nd Ave	& unna	med alle	ey, NE Cor	ner. 1	190 feet
ATTROXIMATE LOCATION.	East of 32 nd A	Ave & Wy	oming D	r Interse	ection. Inle	t lid i	n
	pavement.						
CC	ONDITION	POOR	←			\rightarrow	GOOD
					2		
CONDITIO	ON OF LID	1		2	3		4
CONDITION OF GRA	DE RINGS	-1		2	3		4
CONDITION O	F BARREL	1		2	3		4
CONDITION OF	FLADDER	-1		2	3		4
CONDITION OF PIPE INLETS	OUTLETS			2	3		4
PRESENCE OF SOLIDS OR	BUILDUP		YES			NO	
PRESENCE OF INFILTRATION	N/INFLOW		YES			NO	5
DEPTH/VOLUME	OF FLOW: _			No t	flow		
DIAMETED OF M	IANHOLE:			1' Cota	hhasin		

- Non-standard inlet, 11.5" x 15", rectangular, frame depth 10"
- No grade rings, frame placed on reducing slab
- Grout spalling around pipe penetration
- Metal loss at invert of pipe



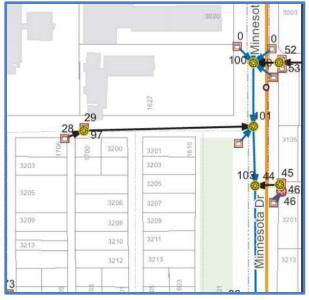


Photo 1 - Structure Location Map



Photo 2 - Inlet / Surrounding Area



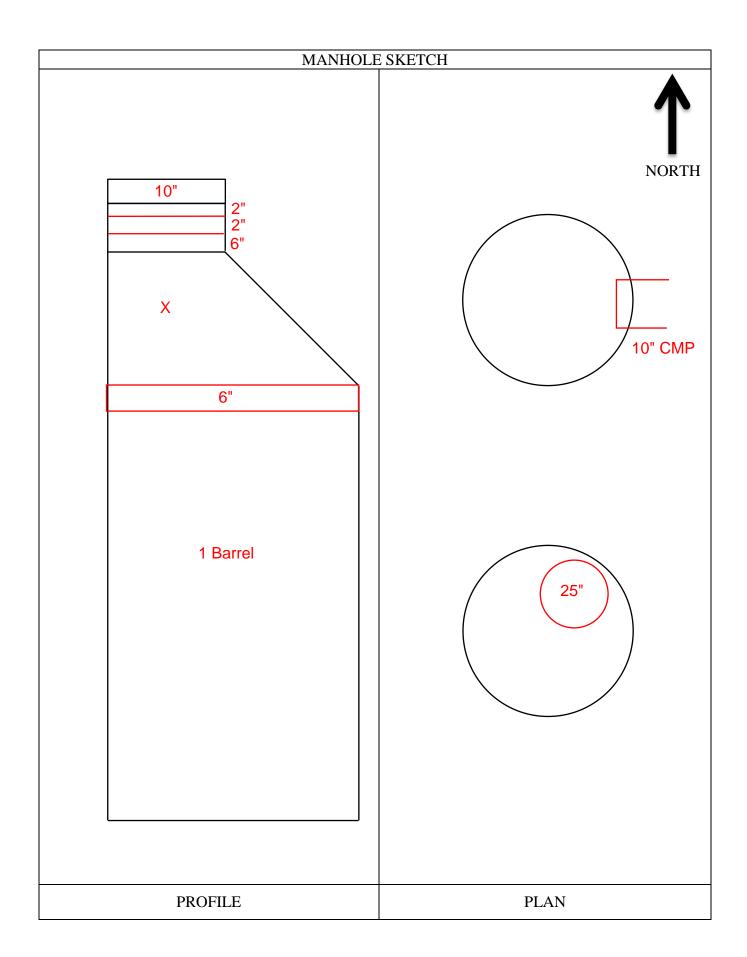
Photo 3 - Inlet



Photo 4 – Frame & Reducing Slab

INSPECTION DATE:	6/10/20		INSPECTIO	ON TIME:	11:05 AM
WEATHER:			INSPEC	TED BY: _ Jo	ey & Wayne
MANHOLE NUMBER:	CB #055	FI	RST PHOTO N	UMBER:	
APPROXIMATE LOCATION:	335 feet Nor	th of Lois I	Orive & 31st Av	e, West side of	Lois Drive.
ATTROXIMATE LOCATION.	Inlet lid in gr	ass road sh	oulder.		
CC	ONDITION	POOR	←		GOOD
			2		
CONDITIO	ON OF LID	1	2	(3)	4
CONDITION OF GRA	DE RINGS	1	(2)	3	4
CONDITION O	F BARREL	1	2	3	4
CONDITION OF	F LADDER	-1	2	3	4
CONDITION OF PIPE INLETS.	OUTLETS	1	2	3	4
PRESENCE OF SOLIDS OR	BUILDUP	(YES	N	1O
PRESENCE OF INFILTRATION	N/INFLOW		YES	N	10)
DEPTH/VOLUME	OF FLOW: _		No	flow	<i></i>
DIAMETER OF M	IANHOLE:		4' Cat	tchbasin	

- Flat intake lid
- Minor vertical cracking in 6" grade ring
- Minor grout spalling in pipe penetration
- Significant debris in sump



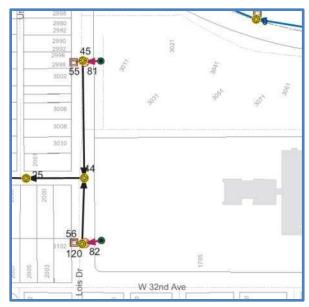


Photo 1 - Structure Location Map



Photo 2 - Inlet / Surrounding Area



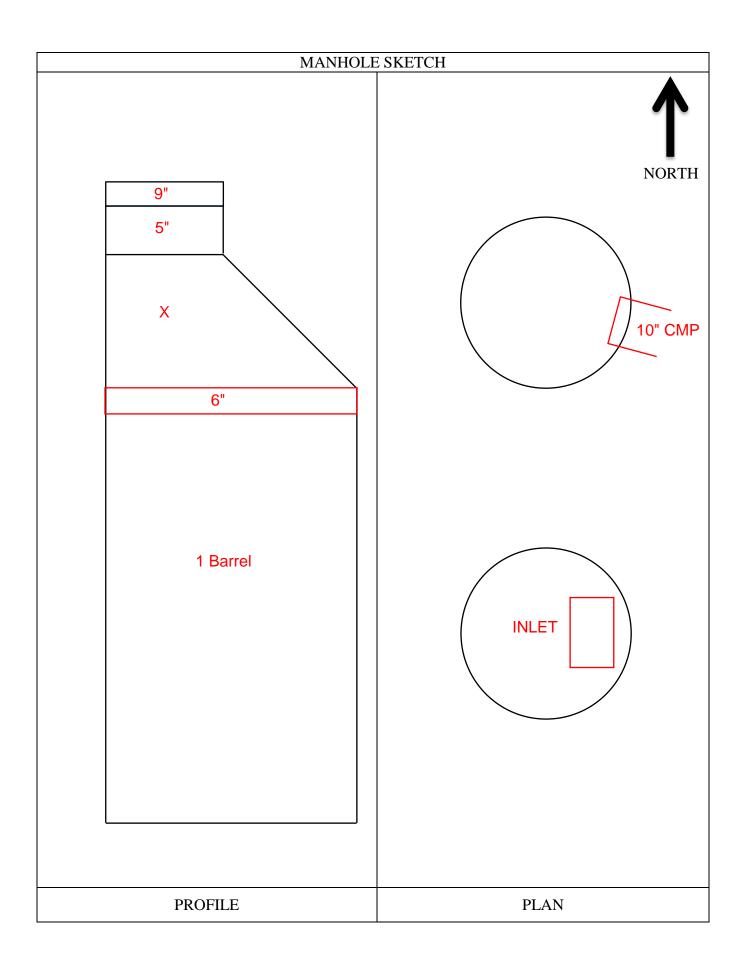
Photo 3 – Frame, Grade Rings & Reducing Slab



Photo 4 – Outlet Pipe Penetration

INSPECTION DATE:	6/10/20		INSPECTIO	N TIME: _	10:30 AM
WEATHER:			INSPEC	TED BY: _	Joey & Wayne
MANHOLE NUMBER:	CB #056	5 FII	RST PHOTO N	UMBER: _	
APPROXIMATE LOCATION:	190 feet Sou	th of Lois I	Orive & 31st Ave	e, West side	of Lois Drive.
ATTROAIMATE LOCATION.	Inlet lid in co	oncrete driv	eway gutter.		
CC	ONDITION	POOR			→ GOOD
		TOOK			GOOD
CONDITIO	ON OF LID	1	(2)	3	4
CONDITION OF GRA	DE RINGS	1	2	3	4
CONDITION O	F BARREL	1	2	3	4
CONDITION OF	F LADDER	-1	2	3	4
CONDITION OF PIPE INLETS.	OUTLETS	1	$\overline{}$	3	4
PRESENCE OF SOLIDS OR	BUILDUP	(YES		NO
PRESENCE OF INFILTRATION	N/INFLOW		YES		NO
DEPTH/VOLUME	OF FLOW: _		No	flow	
DIAMETER OF M	IANHOI E		A' Cat	chhasin	

- Type 2 curb inlet, 24" x 18"
- Curb inlet is at skewed angle from curb line
- Grade ring placement is offset from frame and reducing slab
- Crack in grout above pipe penetration



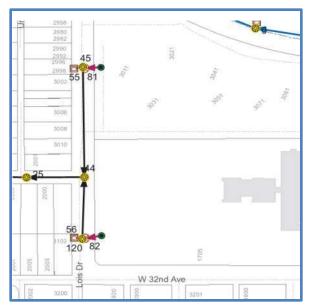


Photo 1 - Structure Location Map



Photo 2 - Inlet / Surrounding Area



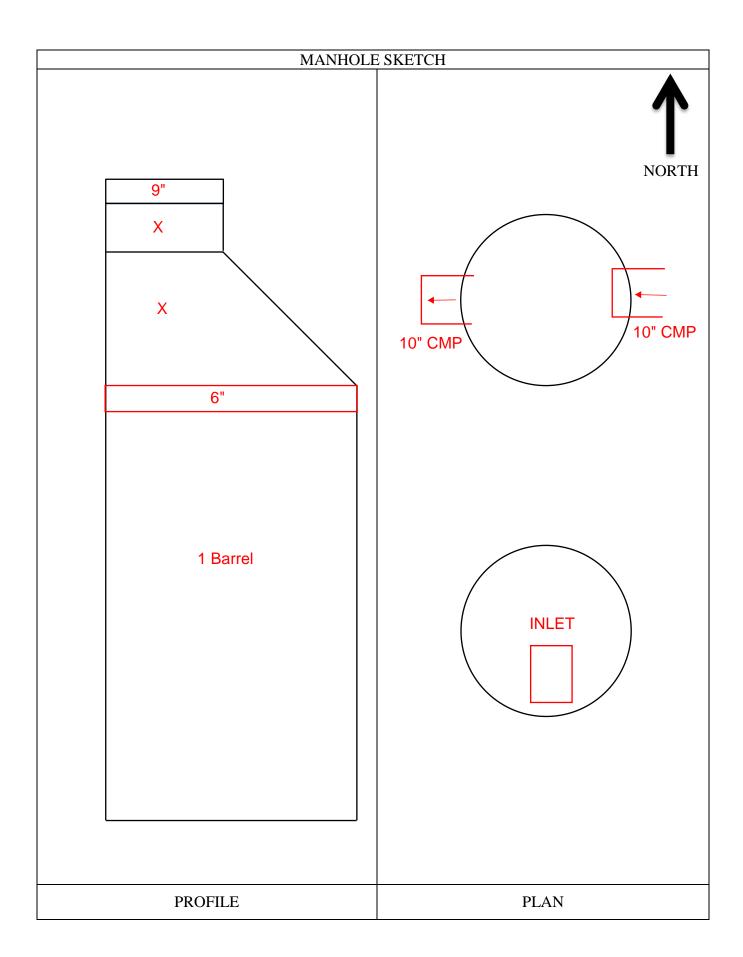
Photo 3 – Frame, Grade Rings & Reducing Slab



Photo 4 – Outlet Pipe Penetration

INSPECTION DATE:	6/10/20		INSPECTI	ON TIME: _	11:00 AM
WEATHER:			INSPE	CTED BY: _	Joey & Wayne
MANHOLE NUMBER:	CB #081	F	TRST PHOTO	NUMBER: _	
APPROXIMATE LOCATION:	335 feet Nor	th of Lois	Drive & 31st A	ve, East side o	of Lois Drive.
ATTROAIMATE LOCATION.	Inlet lid in gr	rass.			
CC	ONDITION	POOR			→ GOOD
CC	NUITION	rook	`		> GOOD
CONDITIO	ON OF LID	1	(2)	3	4
CONDITION OF GRA	DE RINGS	-1	2	3	4
CONDITION O	F BARREL	1	2	3	4
CONDITION OF	F LADDER	_1	2	3	4
CONDITION OF PIPE INLETS.	OUTLETS	1	2	(3)	4
PRESENCE OF SOLIDS OR	BUILDUP		YES		NO
PRESENCE OF INFILTRATION	N/INFLOW		YES		NO
DEPTH/VOLUME	OF FLOW: _		N	o flow	
DIAMETED OF M	ANHOLE:		4, 0	atahhagin	

- Type 2 curb inlet, 24" x 18"
- Significant metal loss in west pipe's invert
- Debris in west pipe's invert



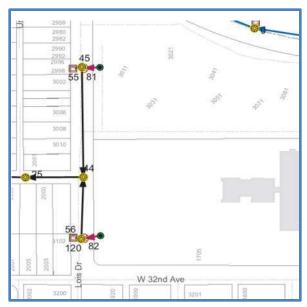


Photo 1 - Structure Location Map



Photo 2 - Inlet / Surrounding Area



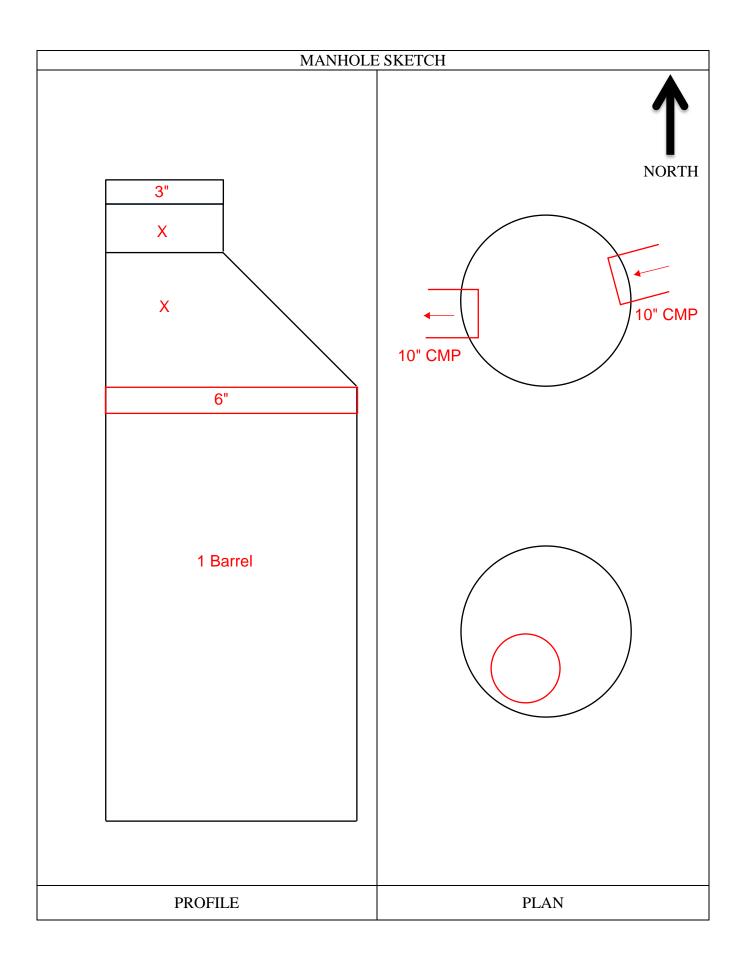
Photo 3 – Frame & Reducing Slab



Photo 4 – Outlet Pipe Penetration

INSPECTION DATE:	6/10/20		INSPECTIO	ON TIME: $_$	10:10 AM
WEATHER:			INSPEC	TED BY: _	Joey & Wayne
MANHOLE NUMBER:	CB #082	2 F	IRST PHOTO N	UMBER:	
APPROXIMATE LOCATION:	190 feet Sou	th of Lois	Drive & 31st Av	e, East side o	of Lois Drive.
ATTROXIMATE LOCATION.	Inlet lid in gr	ravel shoul	der.		
CC	AIDITION	DOOD	_		- COOD
CC	ONDITION	POOR			→ GOOD
CONDITIO	ON OF LID	1	(2)	3	4
CONDITION OF GRA	DE RINGS	-1 -	2	3	4
CONDITION O	F BARREL	1	2	3	4
CONDITION O	FLADDER	-1	2	3	4
CONDITION OF PIPE INLETS	OUTLETS	1	2	3	4
PRESENCE OF SOLIDS OR	BUILDUP		YES		NO
PRESENCE OF INFILTRATION	N/INFLOW		YES		NO
DEPTH/VOLUME	OF FLOW: _		No	flow	
DIAMETER OF M	IANHOLE:		4' Catchba	sin Manhole	:

- Flat intake cover, 25" diameter
- Non-standard frame height 3"
- Minor offset between barrel & reducing slab
- Metal loss in west 10" CMP pipe invert
- East pipe full of debris
- Sump is full of debris



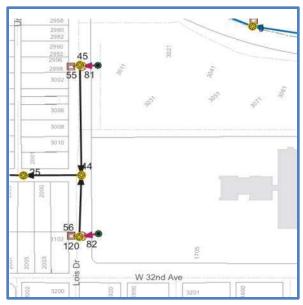


Photo 1 - Structure Location Map



Photo 2 - Inlet / Surrounding Area



Photo 3 – Frame, Reducing Slab & Outlet Pipe



Photo 4 – Inlet Pipe & Pipe Penetration

INSPECTION DATE:	6/10/20	INSPECTION TIME:	N/A	
WEATHER:		INSPECTED BY:	Joey & Wayne	
MANHOLE NUMBER:	CB #142	FIRST PHOTO NUMBER:		
ADDDOVIMATE LOCATION.	190 feet South of L	ois Drive & 31st Ave, East side	of Lois Drive.	
APPROXIMATE LOCATION.		190 feet South of Lois Drive & 31 st Ave, East side of Lois Inlet lid on private land's grass, 55 feet from Lois Drive's		
	Edge of pavement.			

CONDITION OF LID 1 2 3 4 CONDITION OF GRADE RINGS 1 2 3 4 CONDITION OF BARREL 1 2 3 4 CONDITION OF LADDER 1 2 3 4	CONDITION	POOR	←	<u>-</u>	GOOD
CONDITION OF BARREL 1 2 3 4 CONDITION OF LADDER 1 2 3 4	CONDITION OF LID	1	2	3	4
CONDITION OF LADDER 1 2 3 4	CONDITION OF GRADE RINGS	1	2	3	4
	CONDITION OF BARREL	1	2	3	4
CONDITION OF DIDE INLETS/OLITLETS 2 3 4	CONDITION OF LADDER		2	3	4
CONDITION OF THE INLESS/OUTLESS	CONDITION OF PIPE INLETS/OUTLETS	X	2	3	4
PRESENCE OF SOLIDS OR BUILDUP YES NO	PRESENCE OF SOLIDS OR BUILDUP		YES	No	O
PRESENCE OF INFILTRATION/INFLOW YES NO	PRESENCE OF INFILTRATION/INFLOW		YES	N	0
DEPTH/VOLUME OF FLOW:	DEPTH/VOLUME OF FLOW: _				
DIAMETER OF MANHOLE:	DIAMETER OF MANHOLE: _				

MANHOLE ASSESSMENT/CONDITION NOTES:

• Unable to locate in school yard. Did not assess CB #142.

INSPECTION DATE:	6/10/20	INSPECTION TIME:		
WEATHER:		INSPECTED BY:	Joey & Wayne	
MANHOLE NUMBER:	CB #143	FIRST PHOTO NUMBER:		
APPROXIMATE LOCATION:	335 feet North of I	Lois Drive & 31st Ave, East side	e of Lois Drive.	
AIT ROAIMATE LOCATION.	PROXIMATE LOCATION: Inlet lid on private land's pave			
	Edge of pavement.			

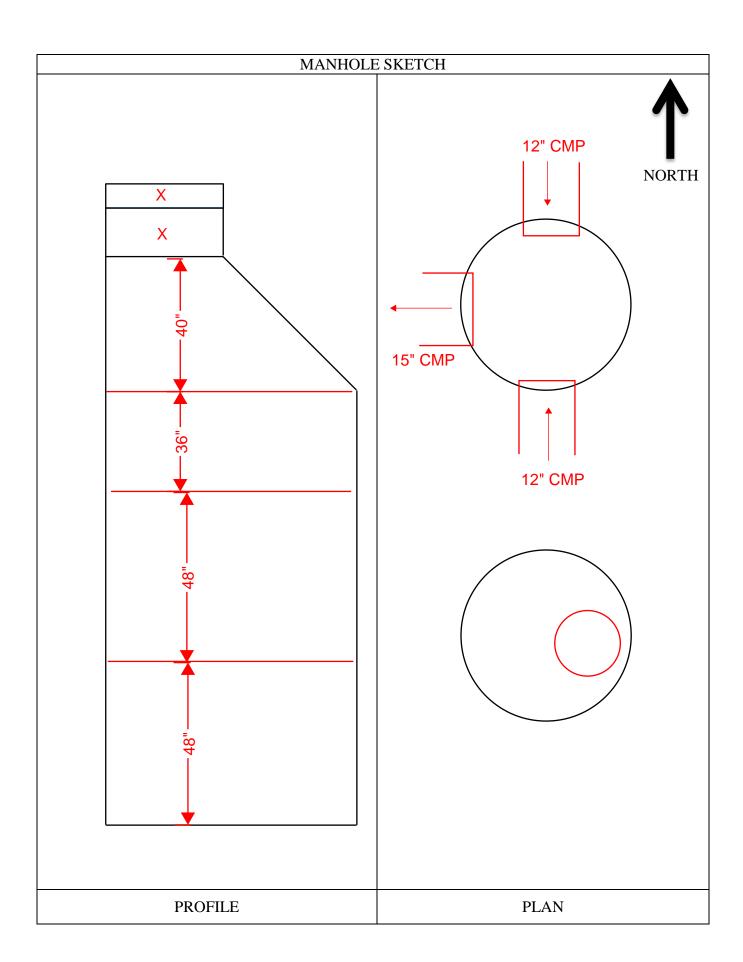
CONDITION	POOR	←	-	GOOD
CONDITION OF LID	1	2	3	4
CONDITION OF GRADE RINGS	1	2	3	4
CONDITION OF BARREL	1	2	3	4
CONDITION OF LADDER	1	2	3	4
CONDITION OF PIPE INLETS/OUTLETS	\nearrow	2	3	4
PRESENCE OF SOLIDS OR BUILDUP	YES NO		1O	
PRESENCE OF INFILTRATION/INFLOW	•	YES	_ N	1O
DEPTH/VOLUME OF FLOW: _				
DIAMETER OF MANHOLE: _				

MANHOLE ASSESSMENT/CONDITION NOTES:

• Catchbasin located on private property. Did not assess CB #143.

INSPECTION DATE:	6/10/20		INSPE	CTION TIME:	10	:45 AM
WEATHER:			INS	SPECTED BY:	Joey	& Wayne
MANHOLE NUMBER:	MH #044	4 F	IRST PHOT	ΓO NUMBER:		
APPROXIMATE LOCATION:	Intersection	of Lois Dr	ive & 31 st A	Ave, East side.		
ATTROAIMATE LOCATION.	MH lid in gr	avel shoul	der.			
CO	MIDITION	DOOD			_	COOD
CC	ONDITION	POOR	` _			GOOD
CONDITIO	ON OF LID	1	2	3		4
CONDITION OF GRA	DE RINGS	-1	2	3		4
CONDITION O	F BARREL	1	2	3)	4
CONDITION OF	FLADDER	1	2	3)	4
CONDITION OF PIPE INLETS.	OUTLETS	1	2	3)	4
PRESENCE OF SOLIDS OR	BUILDUP		YES		NO	
PRESENCE OF INFILTRATION	N/INFLOW		YES		NO)
DEPTH/VOLUME	OF FLOW: _			No Flow		
DIAMETER OF M	IANHOLE:			4' Manhole		

- Non-standard lid with 3 angle pieces welded onto lid
- 12 non-standard steel ladder rungs



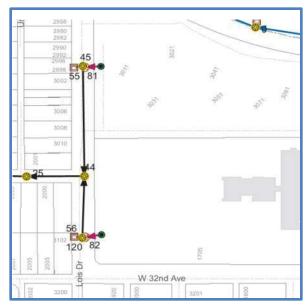


Photo 1 - Structure Location Map



Photo 2 – Manhole Lid / Surrounding Area



Photo 3 – Manhole Lid



Photo 4 – Manhole Cone & Ladder Rungs



Photo 5 – Inlet & Outlet Pipe Penetrations

INSPECTION DATE:	6/10/20	<u> </u>	IN	SPECTIC	N TIME: _	
WEATHER:				INSPEC	TED BY: _	Joey & Wayne
MANHOLE NUMBER:	MH #04	5 1	FIRST F	PHOTO N	UMBER: _	
APPROXIMATE LOCATION:	335 feet Nor	th of Lois	S Drive	& 31 st Av	e, East side	of Lois Drive.
	MH lid in gr	avel shou	lder.			
CC	ONDITION	POOR	<u>←</u>			→ GOOD
CONDITIO	ON OF LID	1		2	3	4
CONDITION OF GRA	DE RINGS	1		2	3	4
CONDITION O	F BARREL	1		2	3	4
CONDITION OF	F LADDER	X		2	3	4
CONDITION OF PIPE INLETS	OUTLETS	1		2	3	4
PRESENCE OF SOLIDS OR	BUILDUP		YES			NO
PRESENCE OF INFILTRATION	N/INFLOW		YES			NO
DEPTH/VOLUME	OF FLOW: _					
DIAMETER OF M	IANHOLE:					

MANHOLE ASSESSMENT/CONDITION NOTES:

• Manhole lid is under pavement. Did not assess MH #045.

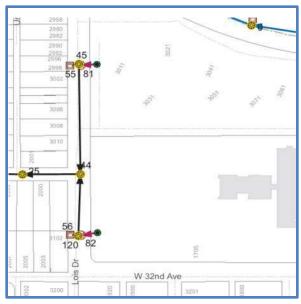


Photo 1 - Structure Location Map



Photo 2 - Manhole / Surrounding Area



Photo 3 – Manhole Lid Under Pavement

INSPECTION DATE:	6/10/20		INSPECTION	ON TIME:	9:20 AM			
WEATHER:			INSPEC	CTED BY: _ J	oey & Wayne			
MANHOLE NUMBER:	MH #097	7 FI	RST PHOTO N	UMBER:				
APPROXIMATE LOCATION:	Intersection of 32 nd Ave & unnamed ally, NE corner. 190 feet East							
AFFROAIMATE LOCATION.	of 32 nd Ave & Wyoming Dr. Intersection. MH lid in pavement							
CC	MIDITION	POOR			→ GOOD			
CONDITION		POOR			GOOD			
CONDITION OF LID		1	2	(3)	4			
CONDITION OF GRADE RINGS		1	2	3	4			
CONDITION OF BARREL		1	2	3	4			
CONDITION OF LADDER		1	2	3	4			
CONDITION OF PIPE INLETS.	OUTLETS	1	$\overline{2}$	3	4			
PRESENCE OF SOLIDS OR	BUILDUP	(YES					
PRESENCE OF INFILTRATION	N/INFLOW	YES		(1	NO			
DEPTH/VOLUME	OF FLOW: _	No flow						
DIAMETED OF M		4' Manhala						

- 1 layer of non-standard grade ring is composed of bricks (in poor condition)
- No cone, grade rings on reducing slab
- 2 visible non-standard steel ladder rungs, 17" apart
- Non-standard frame with 10" height
- Non-standard lid
- Some sediment buildup in pipes
- Grout cracking at west pipe penetration
- NW pipe (8" plastic) was not shown in MOA record drawings and MOA drainage arcgis map

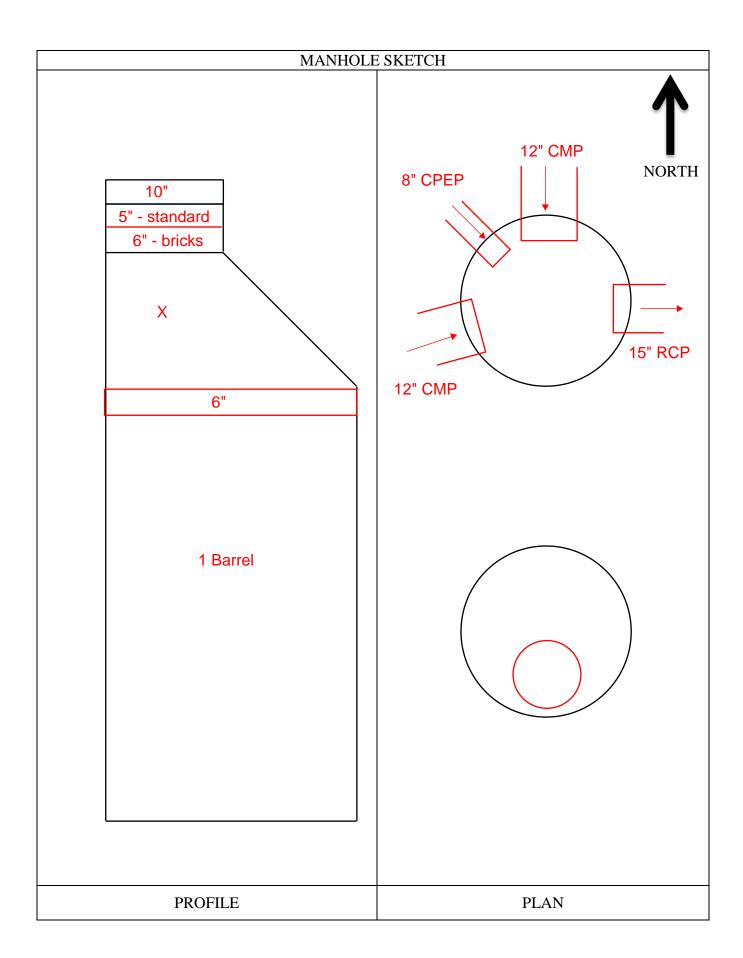




Photo 1 - Structure Location Map



Photo 2 - Manhole / Surrounding Area



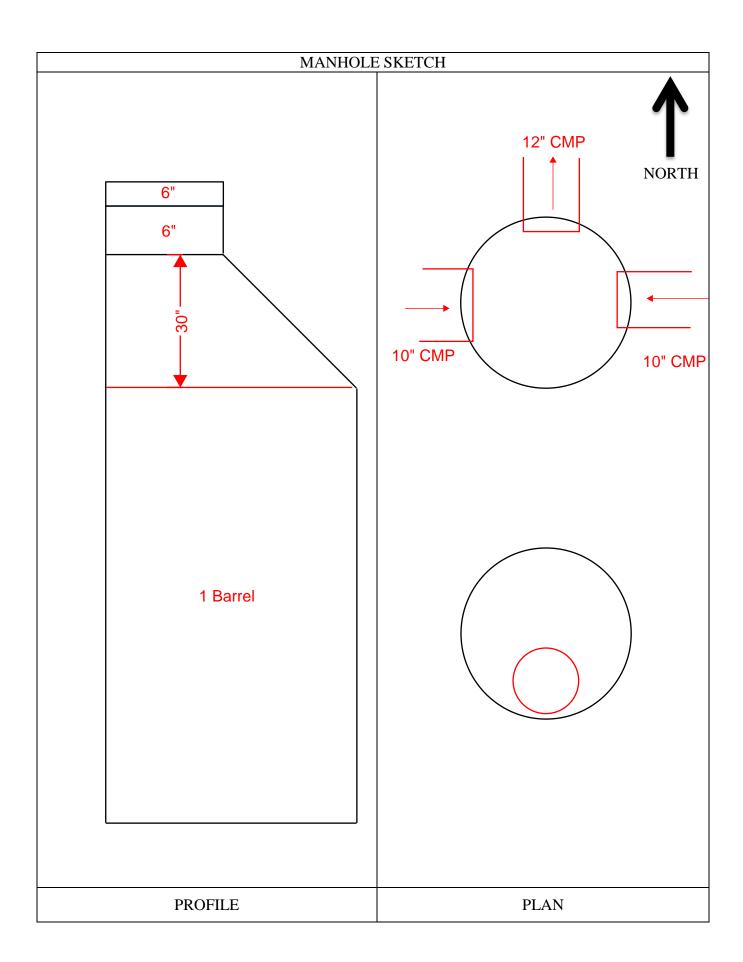
Photo 3 – Frame, Brick Grade Ring, Reducing Slab, and Ladder Rung



Photo 4 – West Inlet Pipe, Unidentified Northwest Inlet Pipe & Pipe Penetrations

INSPECTION DATE:	6/10/20		INSPECTION	ON TIME:	10:20 AM	
WEATHER:			INSPEC	CTED BY:J	oey & Wayne	
MANHOLE NUMBER:	MH #120	0 F	FIRST PHOTO NUMBER:			
APPROXIMATE LOCATION:	190 feet South of Lois Drive & 31st Ave, East side of Lois Drive.					
ATTROAIMATE LOCATION.	MH lid in					
CC	ONDITION	POOR	←		→ GOOD	
CONDITION OF LID		1 00 K	$\overline{(2)}$	3	4	
CONDITION OF GRADE RINGS		1	$\frac{2}{2}$	3	4	
CONDITION OF BARREL		1	2	$\frac{3}{3}$	4	
		•	_			
CONDITION OF LADDER		1	2	3	4	
CONDITION OF PIPE INLETS	OUTLETS	1	2	(3)	4	
PRESENCE OF SOLIDS OR BUILDUP		YES			NO	
PRESENCE OF INFILTRATION/INFLOW		YES		(1	NO	
DEPTH/VOLUME	OF FLOW: _	No flow				
DIAMETER OF M	IANHOLE:	4' Manhole				

- 4 non-standard steel ladder rungs
- Buried MH cover in gravel
- Vertical cracking in grade ring
- Grade ring placement is offset from cone and frame



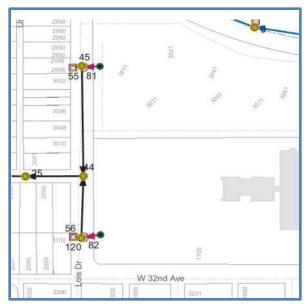


Photo 1 - Structure Location Map



Photo 2 - Manhole / Surrounding Area



Photo 3 – Cracking in Grade Ring



Photo 4 – Frame, Grade Ring & Manhole Cone



Photo 5 – Inlet & Outlet Pipe Penetrations & Ladder Rungs