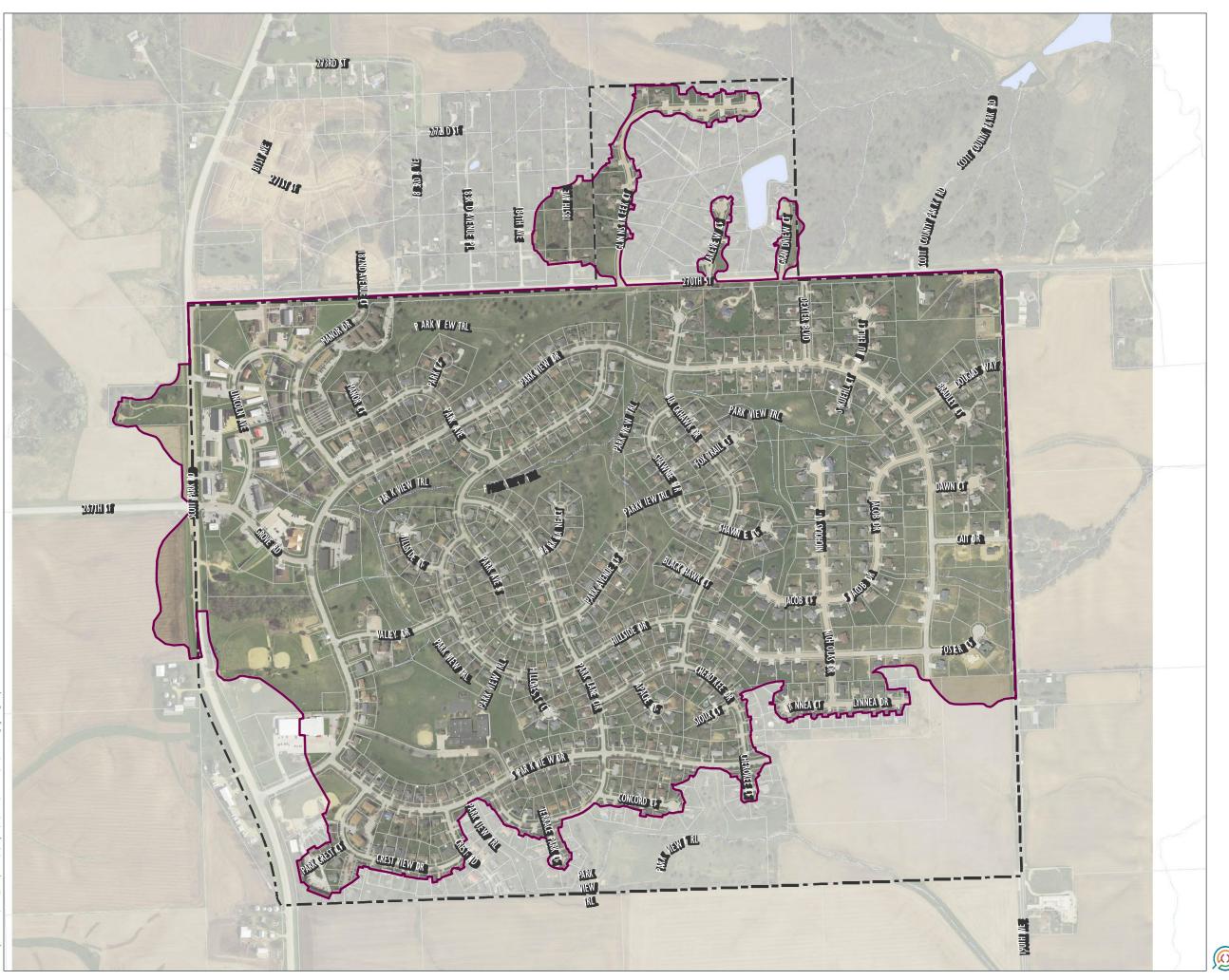


Park View Stormwater Drainage System Analysis





Study Area

Figure 1Park View Stormwater
Drainage System Analysis

Scott County, IA

Study Area
Park View

Parcel

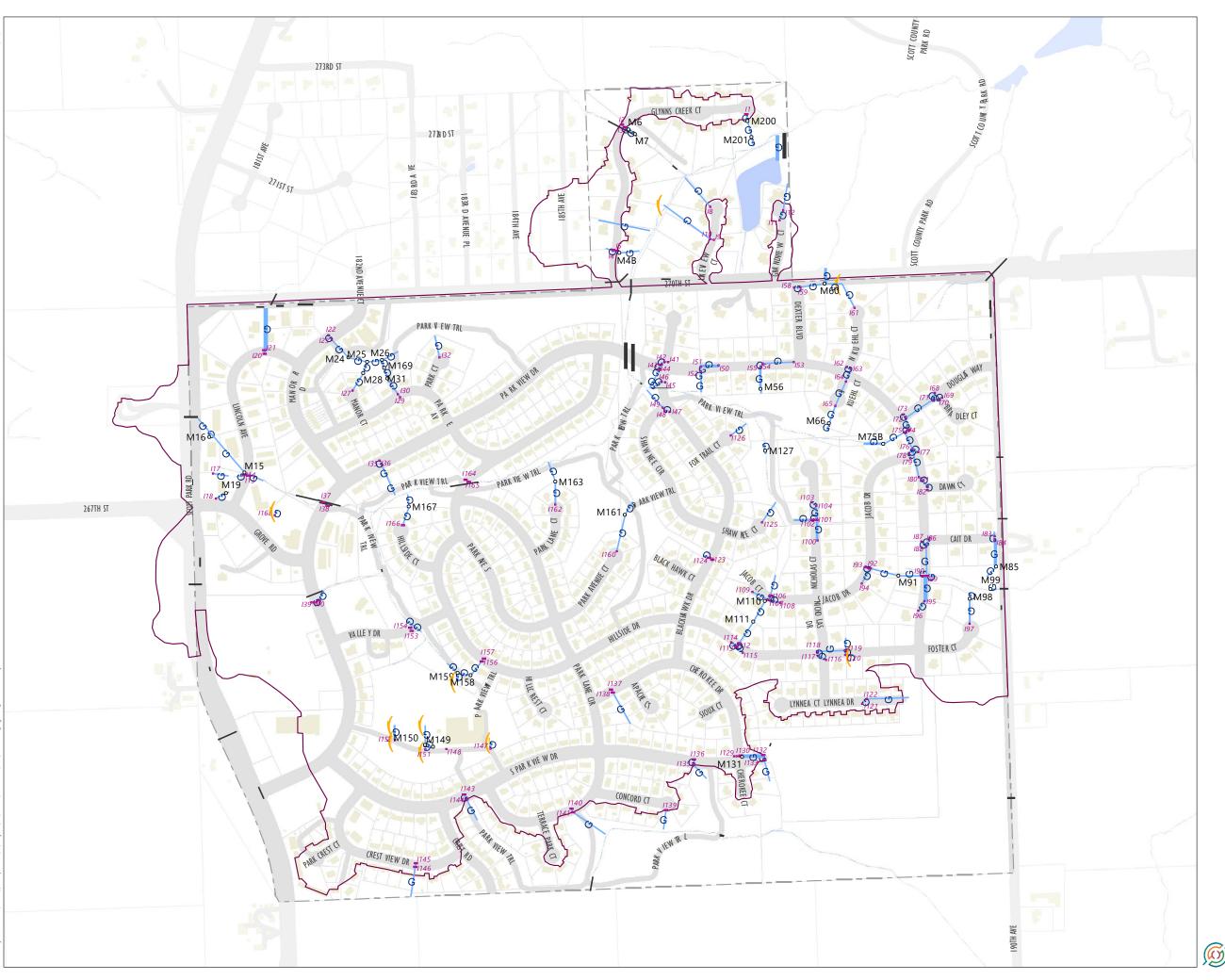
Waterlines

Location within Scott County



Data Sources: Roads: Scott County Parcels: Scott County Aerial: Scott County (2019)





Stormwater System

Figure 5

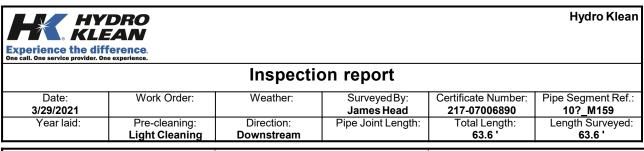
Park View Stormwater Drainage System Analysis

Scott County, IA

- Study Area
- Park View
 - Parcel
- Building Footprint
- Waterbodies
- Waterlines
- ____ Stormwater Pipe
- ____ Stormwater Culvert
- 。 Manhole
- Standard Inlet
- Double Inlet
- ... Triple Inlet
 - Pipe Connection Not Found

Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey

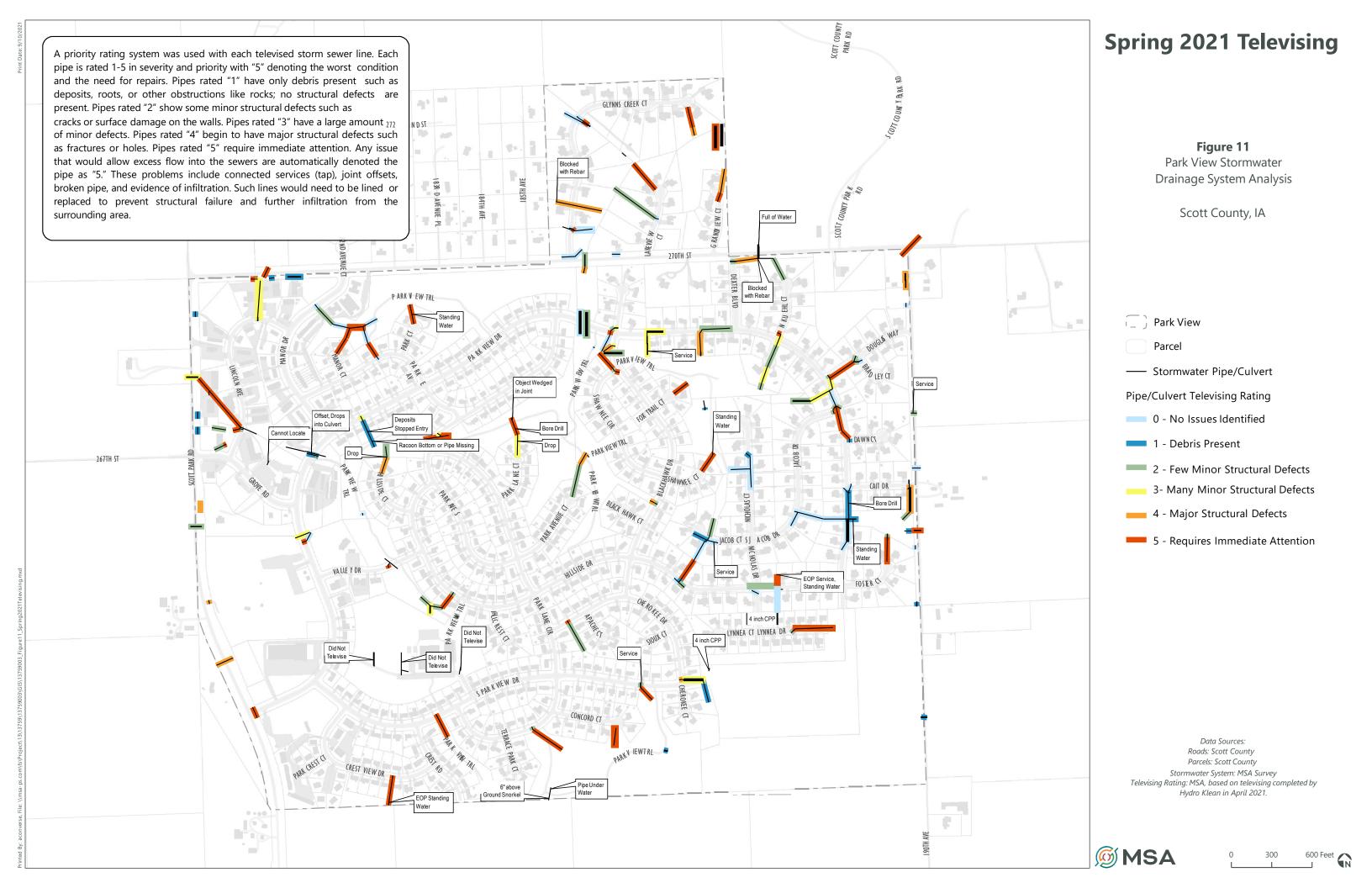


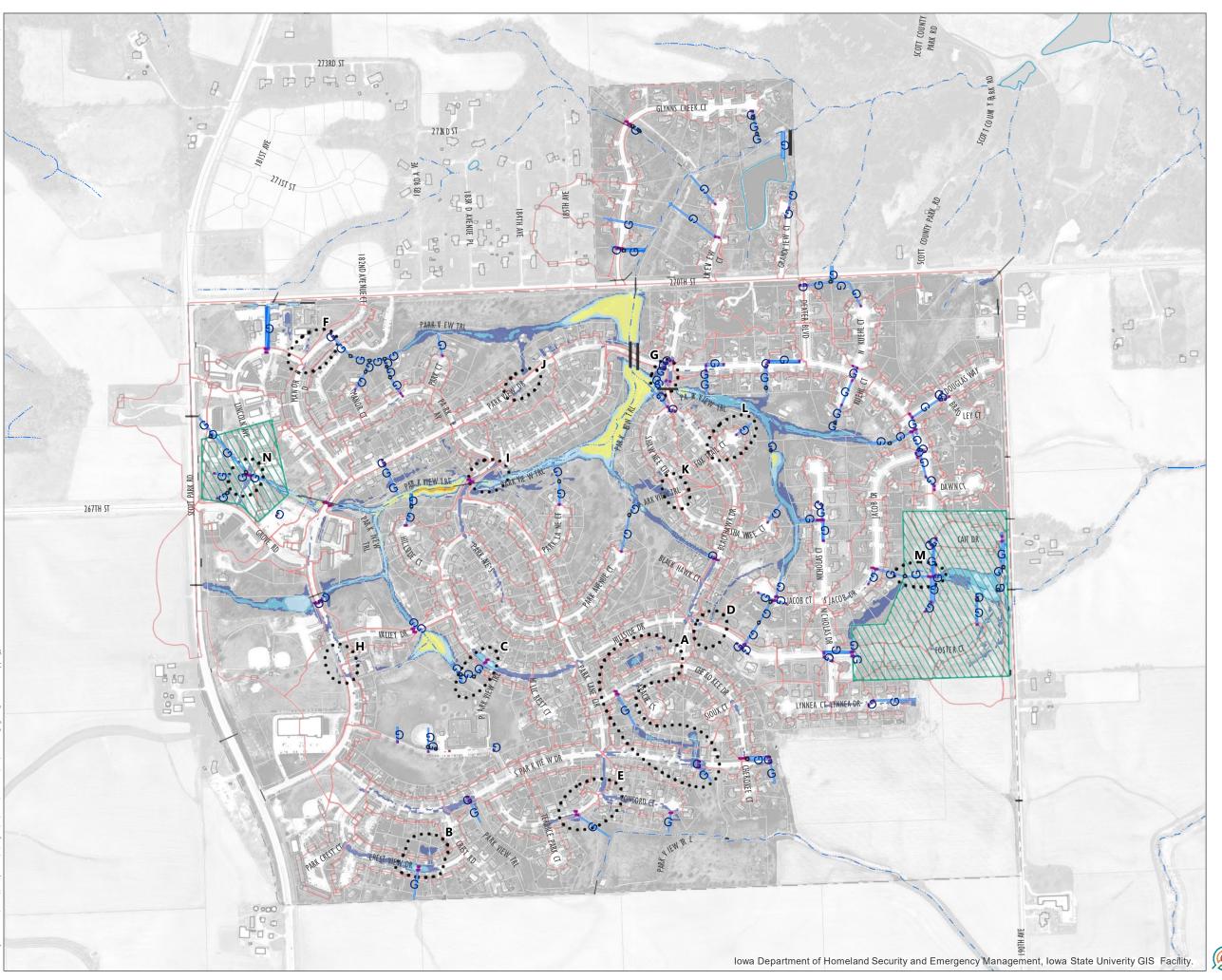


City:	Eldridge	Drainage Area:		Upstream	10?
Street:	Hillside Dr	Media		MH: t	t: 0.0
Location		Label: Flow		Up Rim to Inver	: M1
Code:		Control:	Control:		vert: 59
Location Details:		Sheet	Sheet		0.0
		Number:	Number:		
Pipe shape:	Circular	Sewer Use:	Stormwater Pipe	Total gallons	ed: 0.0
Pipe size:	15 "	Sewer Category	Sewer Category: SEC		0
Pipe material: Vitrified Clay Pipe		Purpo	Purpo		0
Lining		se:		passed:	
Method:		Owne	Owne		
		r-			

		r	:		
Additional Info:					
1:480	Distance	Cod	Observation	Counte Phot	o Grade
	0.0	АМН	Manhole / 10?	00:00:0 3	
	0.0 L	MW	Water Level, 5% of the vertical dimension	00:00:0 6	
	12.8	СМ	Crack Multiple from 11 o'clock to 1 o'clock	00:00:4 8	S 3
!	20.4	СМ	Crack Multiple from 11 o'clock to 1 o'clock	00:01:2 5	S 3
\parallel	32.0	СМ	Crack Multiple from 11 o'clock to 1 o'clock	00:01:5 6	S 3
\parallel	42.7	СМ	Crack Multiple from 11 o'clock to 1 o'clock	00:02:2 8	S3
	55.8	СМ	Crack Multiple from 11 o'clock to 1 o'clock	00:03:4 1	S3
	62.8	OBR	Obstruction Rocks, 15% of cross sectional area from 4 o'clock to 8 o'clock	00:03:5 5	M3
	63.6	AMH	Manhole / M159	00:04:2 8	
M159					
QSR	QMR	QOR	SPR MPR OPR SPI	RI MPRI	OPRI

Scott County Easement 3_29_2021
// Page: 3





Existing Conditions Inundation 5-year Event

Figure 6

Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

Subwatershed

~.... Waterlines

____ Stormwater Pipe

____ Stormwater Culvert

Manhole

. Standard Inlet

Double Inlet

... Triple Inlet

Updated Topography Required*

Inundation Depth (ft)

0.1 - 0.5

0.6 - 1

1.1 - 2

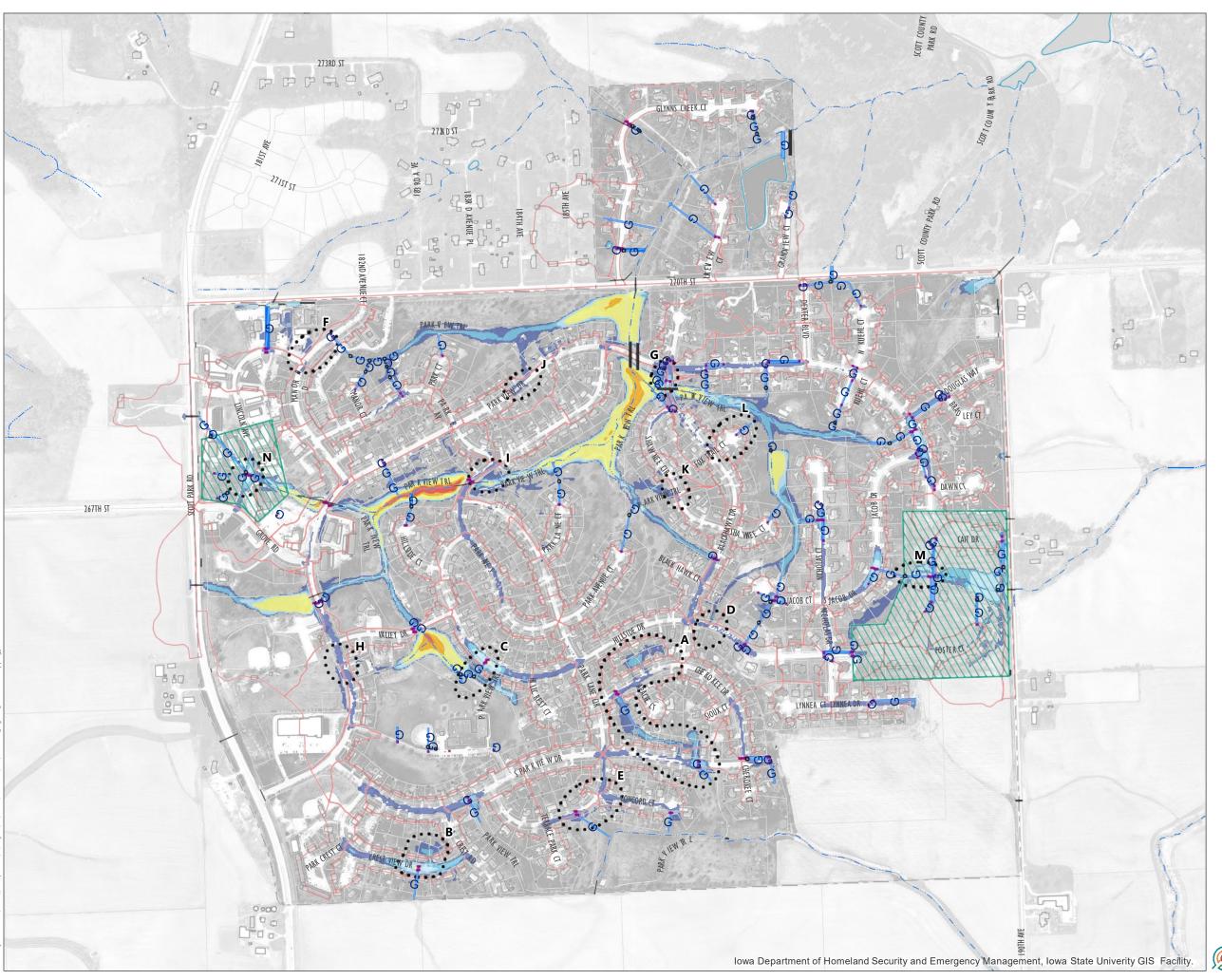
2.1 - 5

5.1 - 7

Problem Location

Data Sources: Roads: Scott County Parcels: Scott County





Existing Conditions Inundation 100-year Event

Figure 7

Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

Subwatershed

~~.~ Waterlines ____ Stormwater Pipe

____ Stormwater Culvert

Manhole

. Standard Inlet

Double Inlet

... Triple Inlet

Updated Topography Required*

Inundation Depth (ft)

0.1 - 0.5

0.6 - 1

1.1 - 2

2.1 - 5

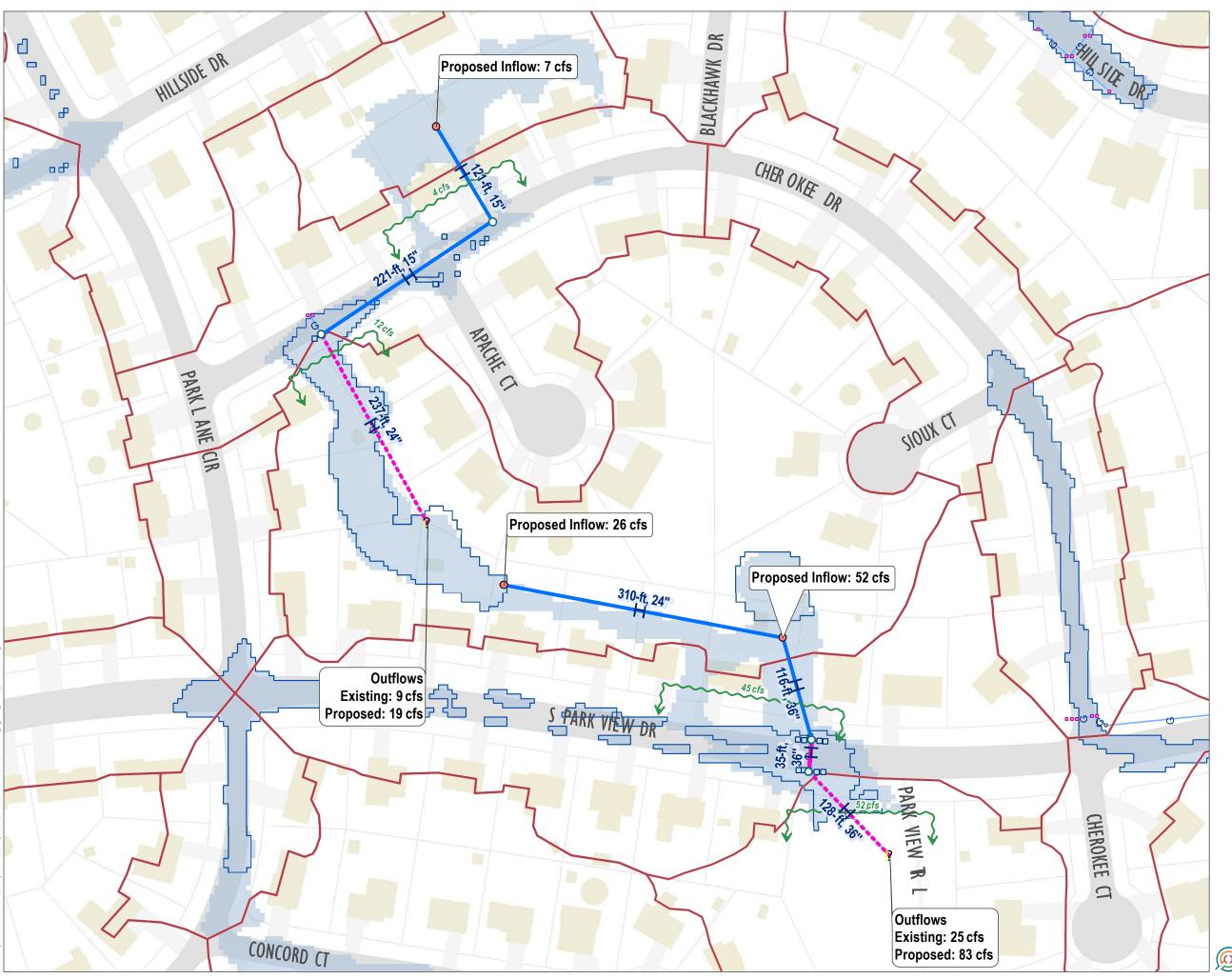
5.1 - 7

7.1+

Problem Location

Data Sources: Roads: Scott County Parcels: Scott County





Conceptual Solutions Area A

Figure 8-1

Park View Stormwater Drainage System Analysis

Scott County, IA

S Watershed

Existing 100-yr Event Inundation

Proposed 100-yr Event Inundation

Existing Stormwater Pipe

+, Existing Stormwater Culvert

- **Existing Manhole**
- Standard Inlet
- Double Inlet
- Triple Inlet

Existing Overland Flows

Proposed Improvements

Proposed Pipe, New

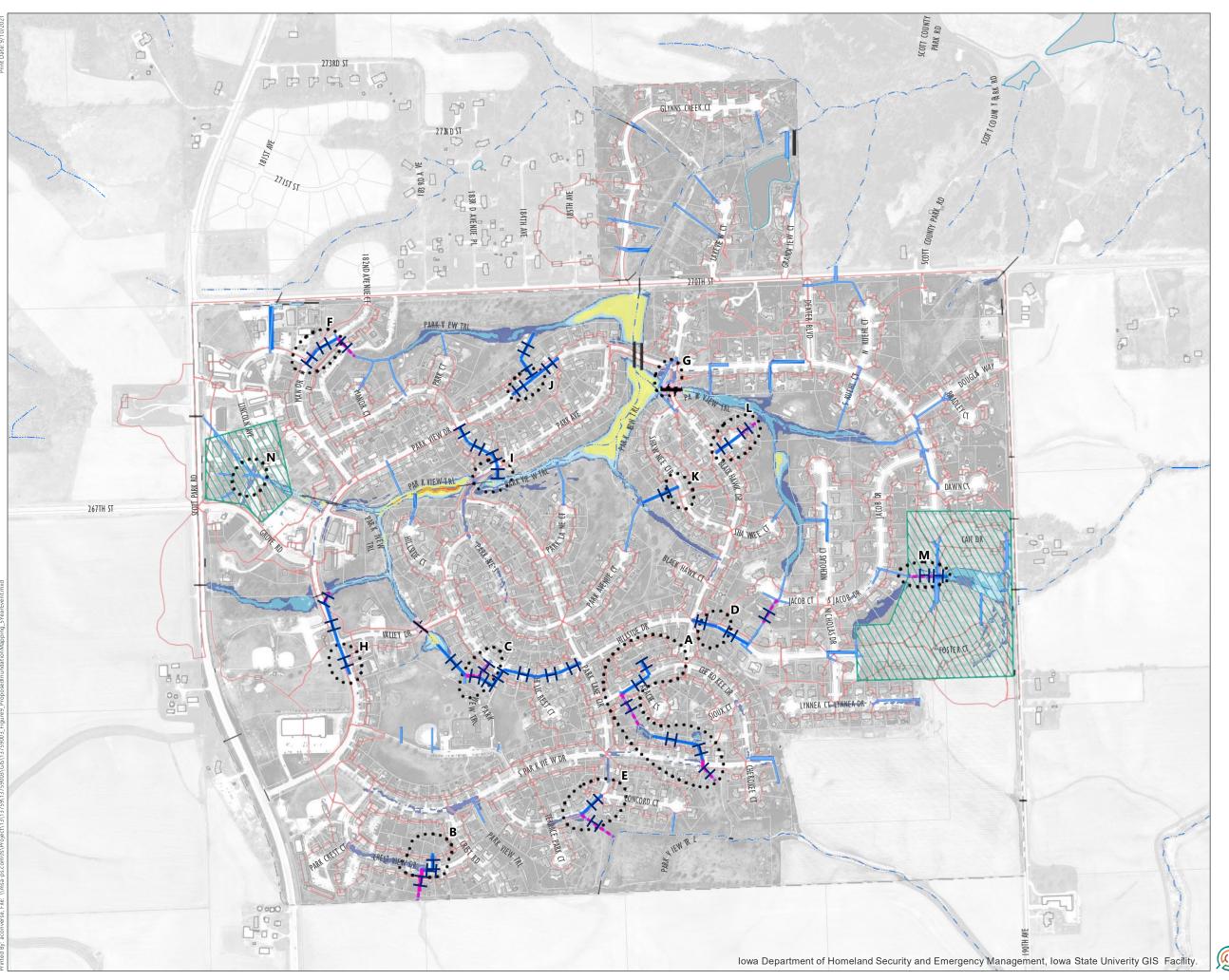
■ Proposed Pipe, Replace Existing

- Proposed Access Structure (4)
- Proposed Inlet (13)
- Proposed Area Inlet (3)
- Proposed Outlet (2)



Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey Existing and Proposed Inundation: MSA. Proposed inundation assumes that all proposed projects are constructed.





Proposed Conditions Inundation 5-year Event

Figure 9

Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

Subwatershed

..... Waterlines

__ Existing Stormwater Pipe

____ Existing Stormwater Culvert

Updated Topography Required*

Inundation Depth (ft)

0.1 - 0.5

0.6 - 1

11.2

_

51.7

7.1+

Proposed Pipe, New

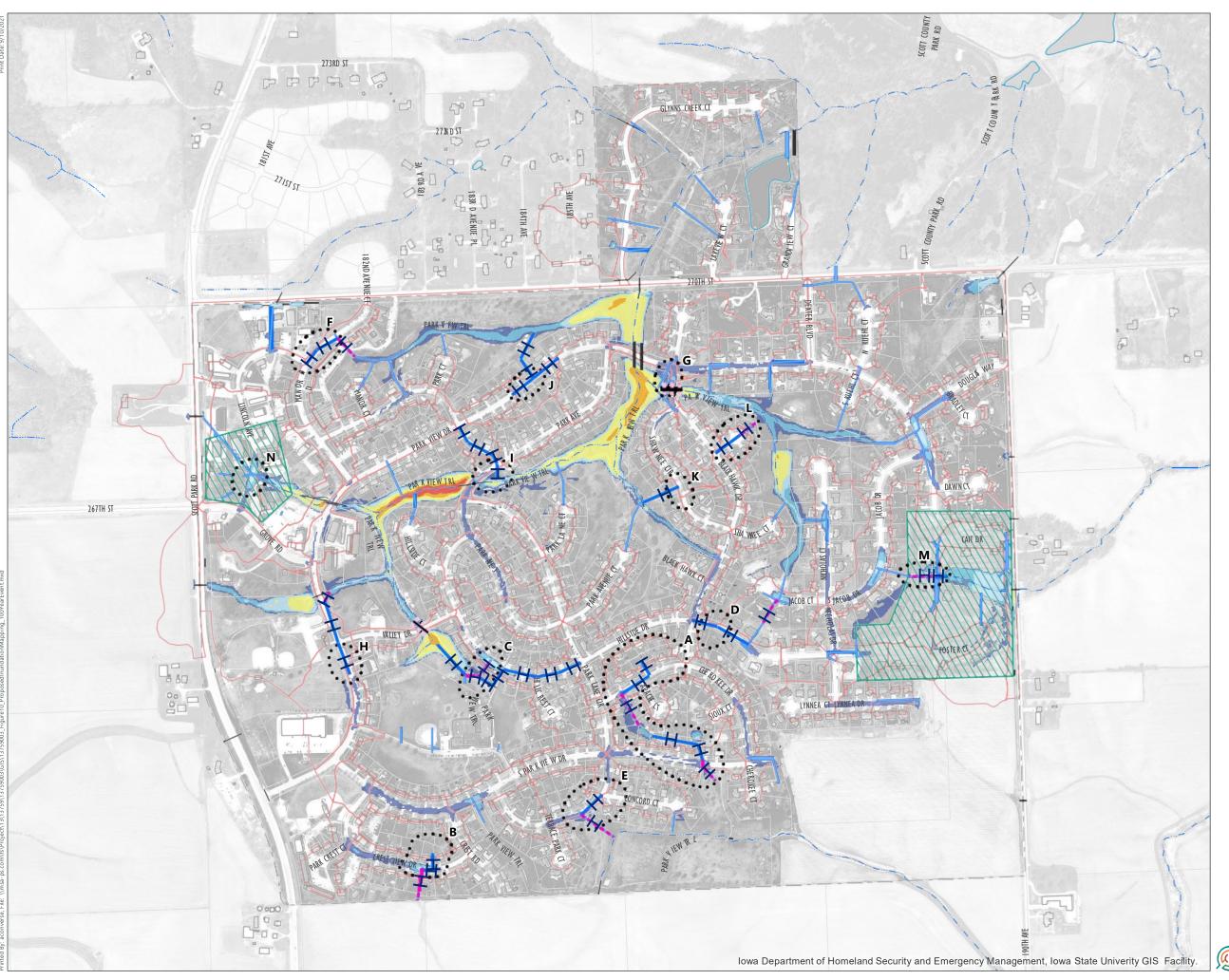
Proposed Pipe, Replace Existing

+++-, Proposed Culvert, Replace Existing

Problem Location

Data Sources: Roads: Scott County Parcels: Scott County





Proposed Conditions Inundation 100-year Event

Figure 10

Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

Subwatershed

..... Waterlines

Existing Stormwater Pipe

____ Existing Stormwater Culvert

Updated Topography Required*

Inundation Depth (ft)

0.1 - 0.5

0.6 - 1

11.2

_

5.1 - 7

7.1+

Proposed Pipe, New

Proposed Pipe, Replace Existing

+++-, Proposed Culvert, Replace Existing

Problem Location

Data Sources: Roads: Scott County Parcels: Scott County



