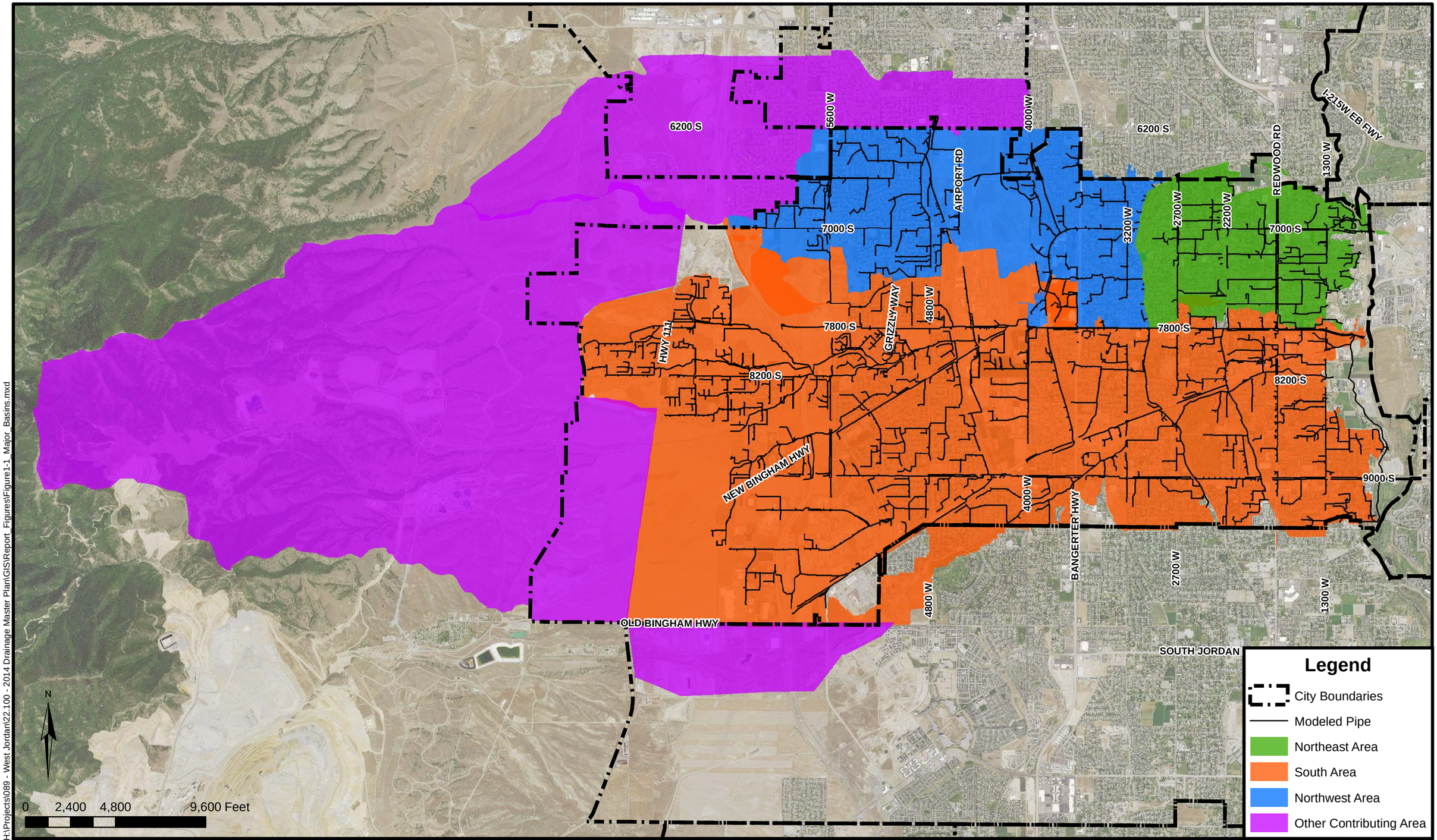

Date: 8/25/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure1-1_Major_Basins.mxd

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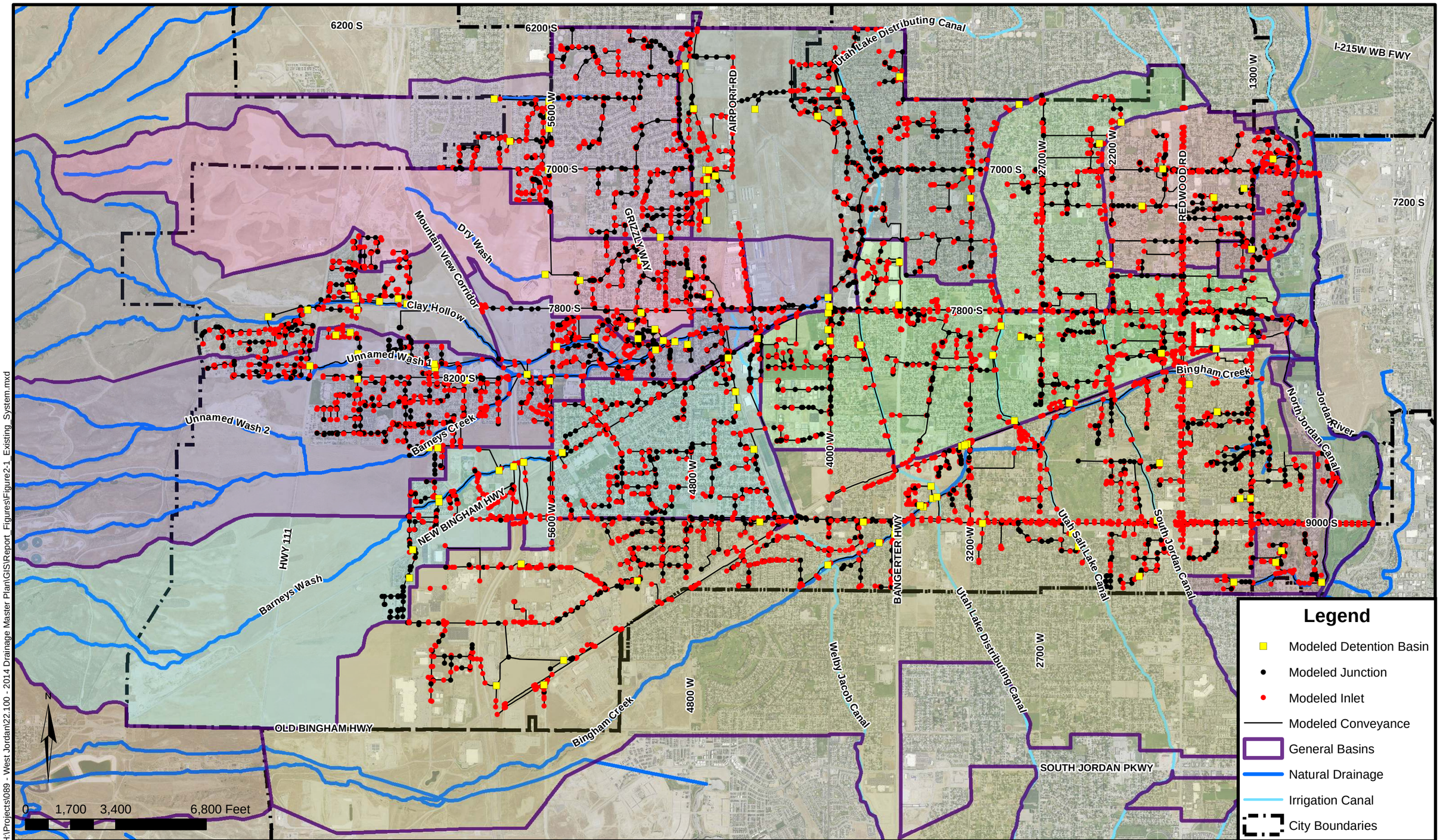
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

STUDY AREA AND MAJOR BASINS

FIGURE 1-1



Date: 10/22/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure2-1_Existing_System.mxd

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CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

EXISTING STORM DRAINAGE SYSTEM

FIGURE 2-1

Legend

- Modeled Junction
- Modeled Inlet
- Pipe (diameter inches)
- Box Culvert (width inches)
- Open Channel Conduit
- Natural Drainage
- Irrigation Canal

0 750 1,500 3,000 Feet

N

6200 S

7000 S

7800 S

8200 S

HWY 111

Dry Wash

Clay Hollow

Unnamed Wash 1

Barneys Creek

AIRPORT RD

4800 W

NEW BINGHAM HWY

Welby Jacob Canal

Date: 7/31/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure2-2_NW_Existing_System.mxd

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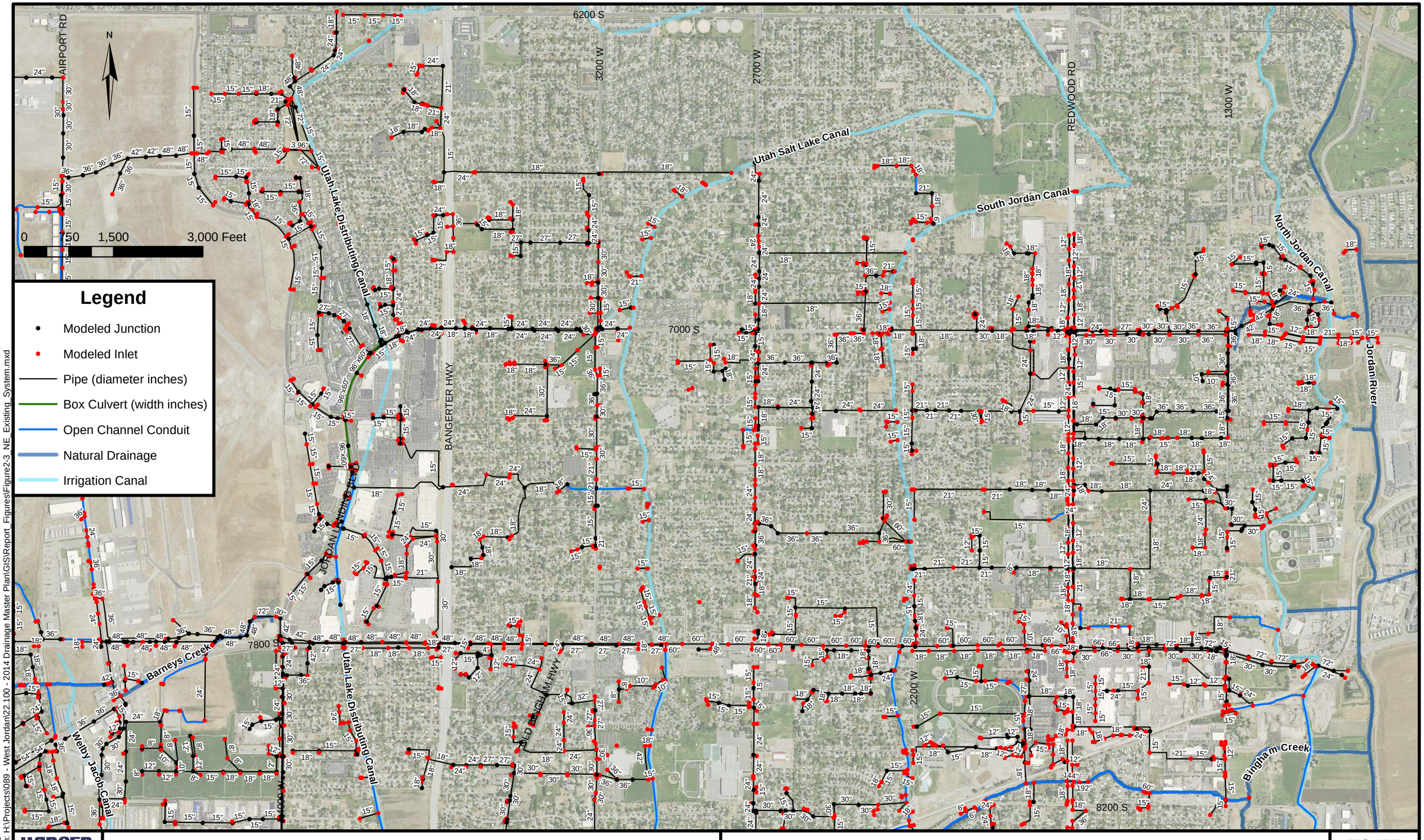
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

DETAILED EXISTING STORM DRAINAGE SYSTEM
NORTHWEST QUADRANT

FIGURE
2-2



Date: 7/31/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report Figures\Figure2-3 NE Existing System.mxd

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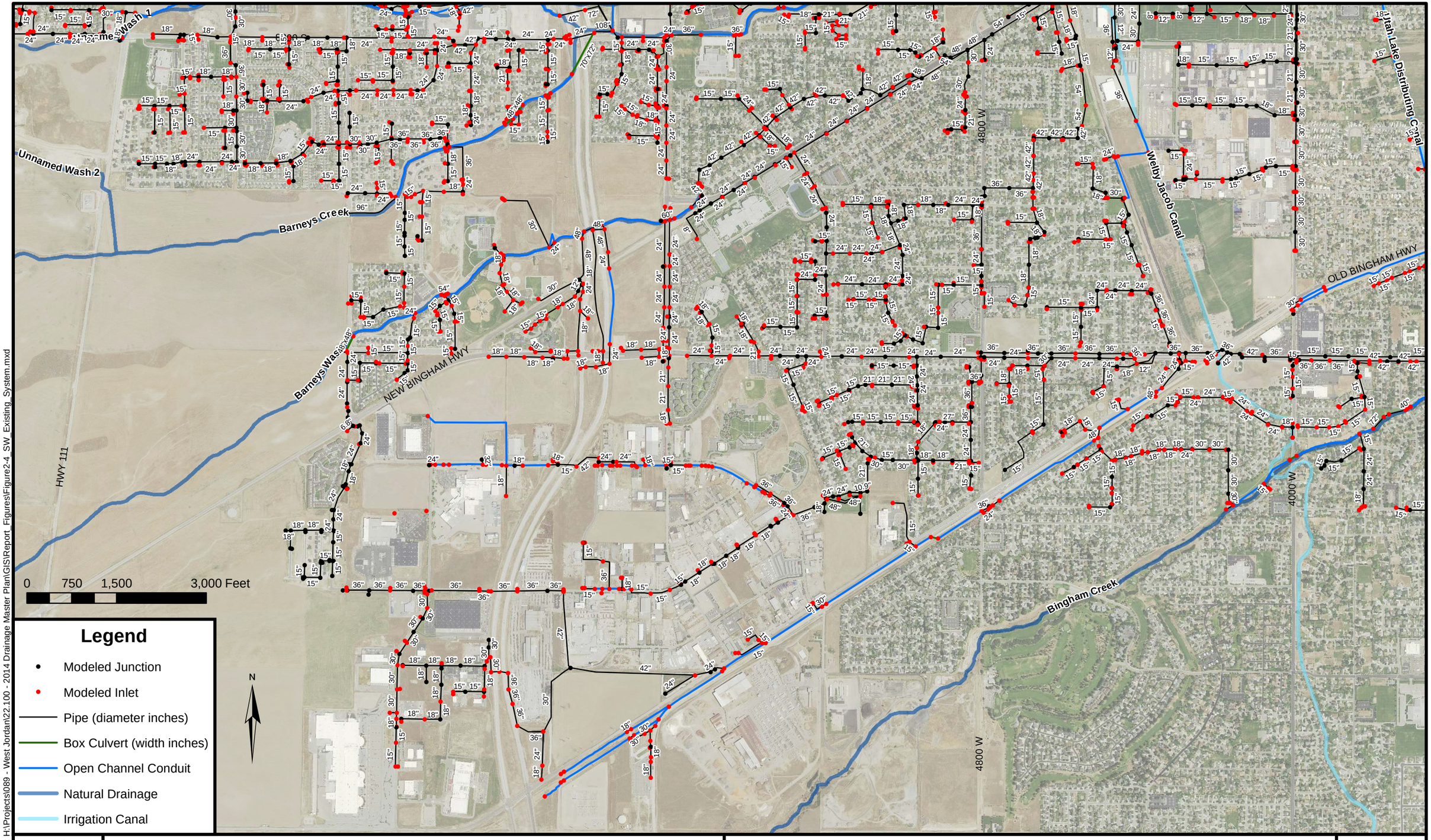
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

DETAILED EXISTING STORM DRAINAGE SYSTEM
NORTHEAST QUADRANT

FIGURE
2-3



Date: 7/31/2015
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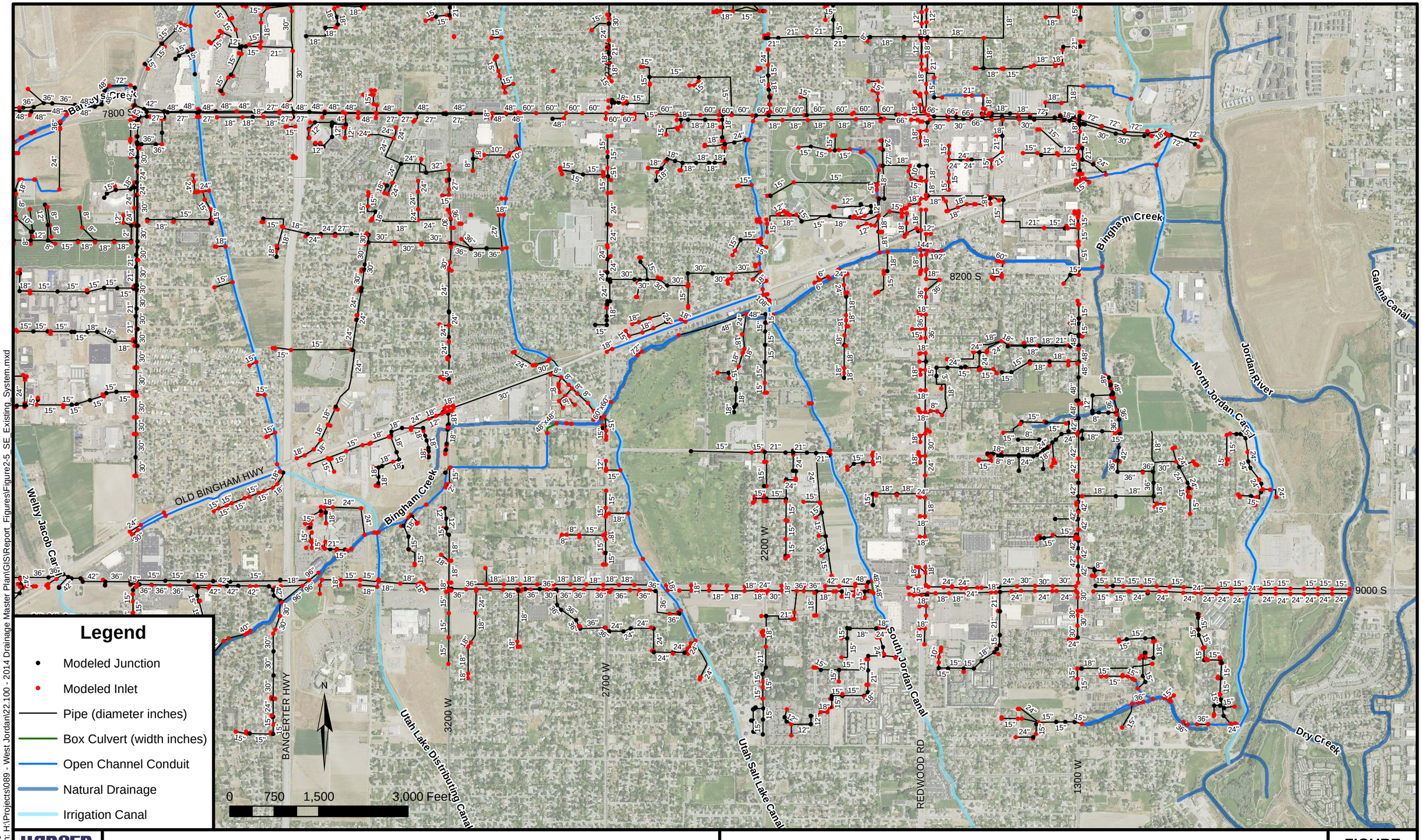
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

DETAILED EXISTING STORM DRAINAGE SYSTEM
SOUTHWEST QUADRANT

FIGURE
2-4



Date: 7/31/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure2-5_SE_Existing_System.mxd

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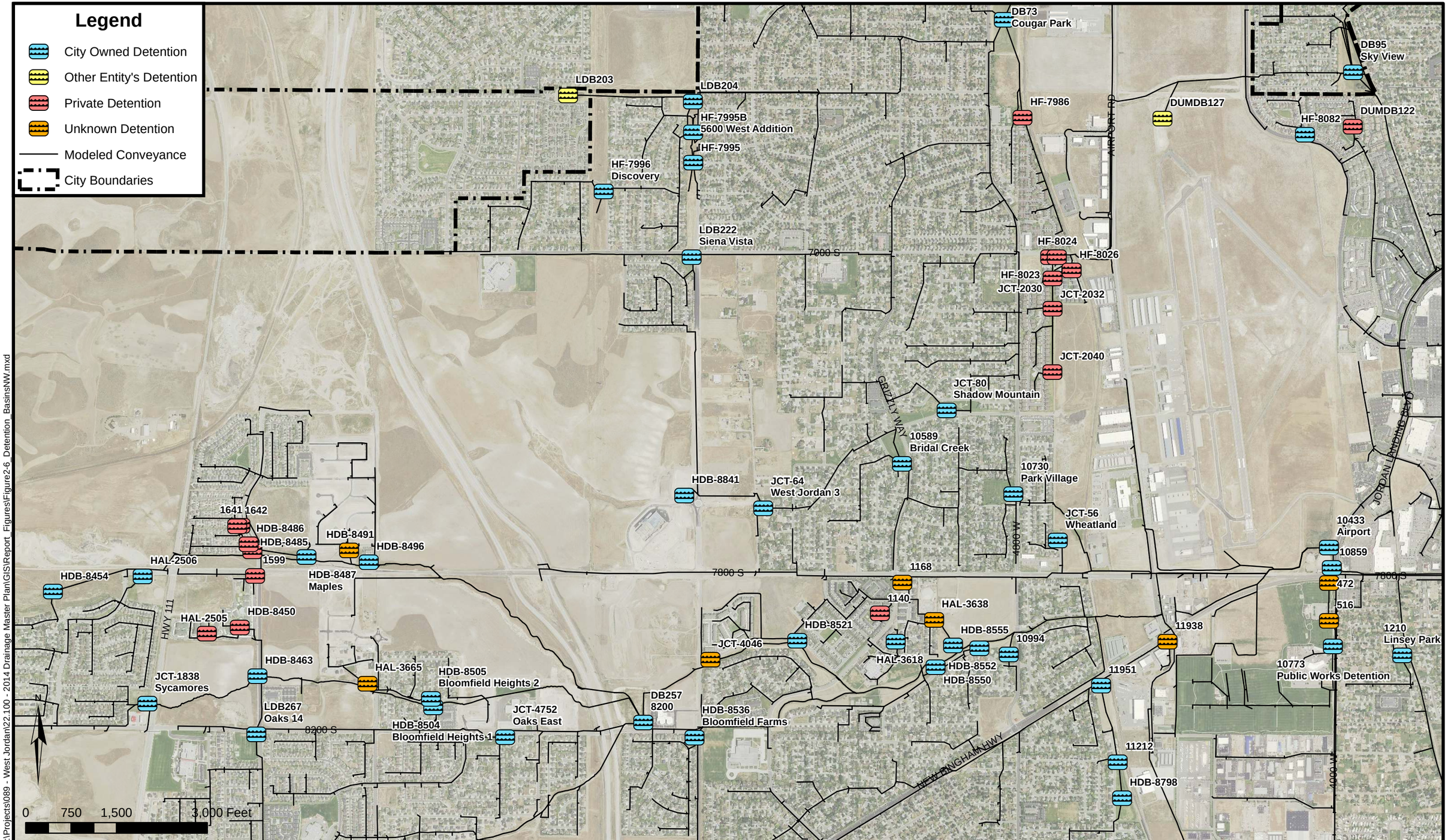
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

DETAILED EXISTING STORM DRAINAGE SYSTEM
SOUTHEAST QUADRANT

FIGURE
2-5



Date: 7/31/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure2-6_Detention_BasinsNW.mxd

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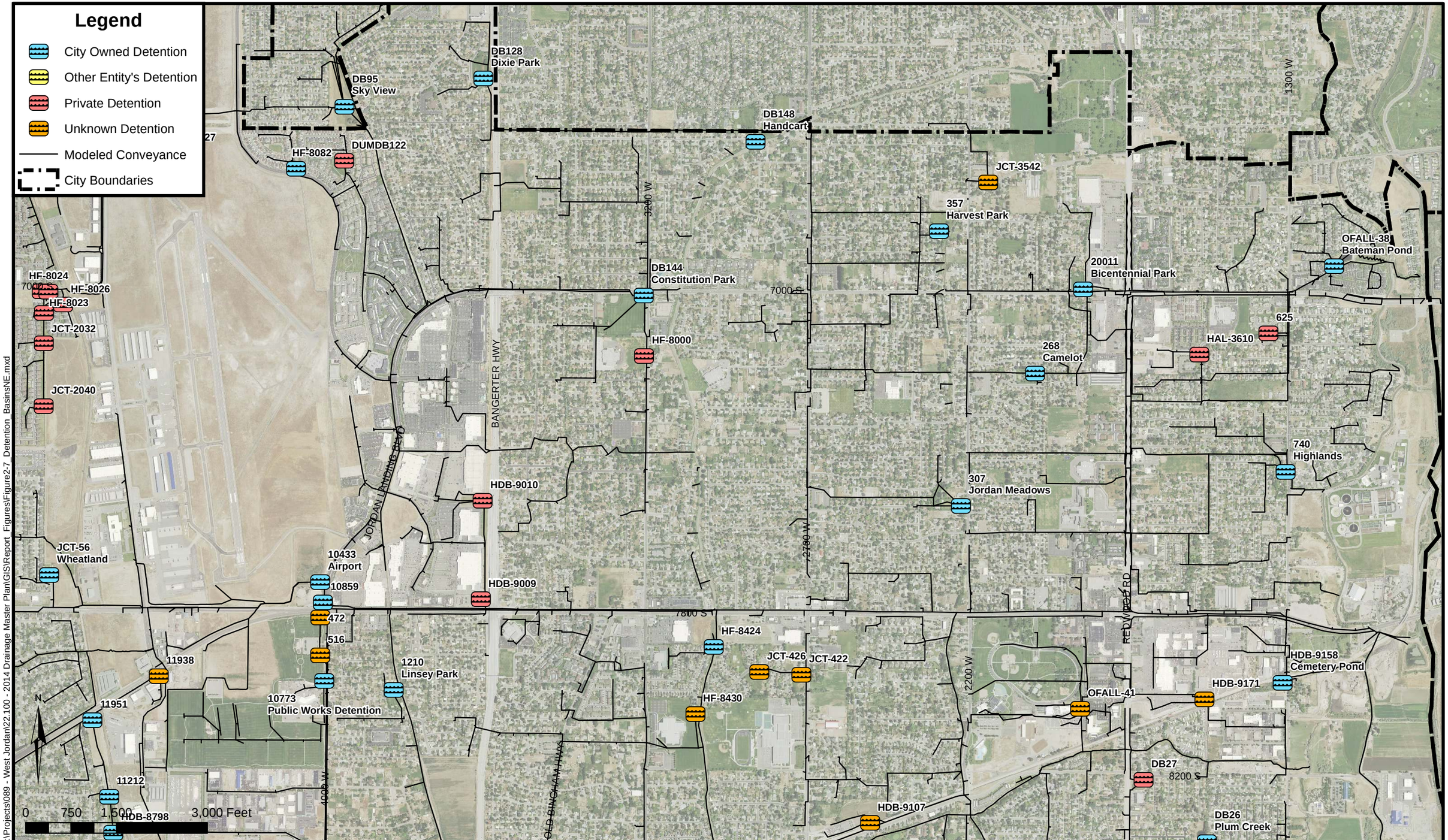
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

NORTHWEST QUADRANT MODELED DETENTION BASINS

FIGURE 2-6



Date: 7/31/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure2-7_Detention_BasinsNE.mxd

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CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

NORTHEAST QUADRANT MODELED DETENTION BASINS

FIGURE 2-7

Legend

- City Owned Detention
- Other Entity's Detention
- Private Detention
- Unknown Detention
- Modeled Conveyance
- City Boundaries

HAL-2505
HDB-8450
HDB-8463
JCT-1838
Sycamores
LDB267
Oaks 14
8200 S
HAL-3665
HDB-8505
Bloomfield Heights 2
HDB-8504
Bloomfield Heights 1
JCT-4752
Oaks East
DB257
8200
JCT-856
Three Forks JCT-4710
DB285
Ron Wood
HDB-8601
HDB-8597
HDB-8571
HDB-8559
Copperfield 3
HDB-8561
Copperfield 2
3136
HAL-3698
OFALL-131
HWY 111
NEW BINGHAM HWY
JCT-4046
HDB-8521
1140
HAL-3638
HDB-8555
10994
HAL-3618
HDB-8552
HDB-8550
HDB-8536
Bloomfield Farms
11938
516
10773
Public Works Detention
11951
11212
HDB-8798
11256
Dora Lee Park
GRIZZLY WAY
4800 W
OFALL-28
DB81
Teton Estates Park
4000 W
JCT-4814
OLD BINGHAM HWY
DB446
HDB-8717
OFALL-77
4800 W
N
0 750 1,500 3,000 Feet

Date: 8/3/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure2-8_Detention_BasinsSW.mxd

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CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

SOUTHWEST QUADRANT MODELED DETENTION BASINS

FIGURE
2-8

Legend

- City Owned Detention
- Other Entity's Detention
- Private Detention
- Unknown Detention
- Modeled Conveyance
- City Boundaries

HDB-9010
10433 Airport
10859
HDB-9009
472
516
11938
1210 Linsey Park
10773 Public Works Detention
11951
11212
HDB-8798
11256 Dora Lee Park
4000 W
BANGERTER HWY
OLD BINGHAM HWY
7800 S
HF-8424
JCT-426
JCT-422
HF-8430
2200 W
307 Jordan Meadows
740 Highlands
REDWOOD RD
HDB-9158 Cemetery-Pond
HDB-9171
OFALL-41
DB27
8200 S
HDB-9107
225 Meadow Green Farms
DB26 Plum Creek
STOR-20
STOR-18
HDB-9167
JCT-984 Cajean Estates
HDB-8900
HDB-8901
HDB-8899
DB114
HDB-9128
HDB-9130
OFALL-28
HDB-8858
HDB-8898
JCT-3902
199 Vista West
HDB-8857 Heritage Park
DB81 Teton Estates Park
HDB-8882
20017 Okubos
20021 Browns Meadow 2
182 Browns Meadow 1
3200 W
2700 W
9000 S
OFALL-27 Trimble Creek
JCT-4222 Woodward Estates
OFALL-89
HAL-2651
1490 River Oaks
1300 W

N

0 750 1,500 3,000 Feet

Date: 8/3/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure2-9_Detention_BasinsSE.mxd

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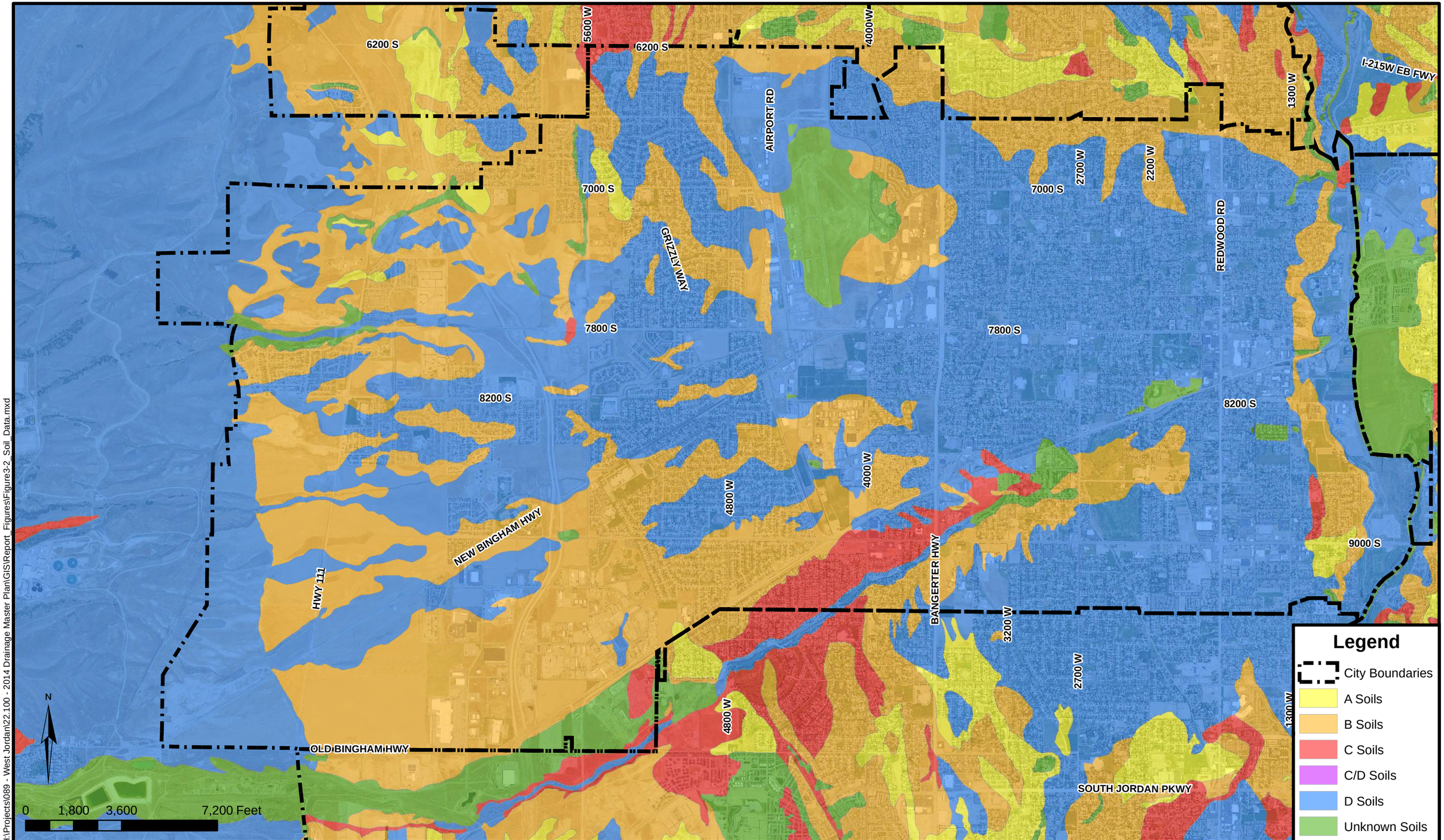
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

SOUTHEAST QUADRANT MODELED DETENTION BASINS

FIGURE
2-9



Date: 7/31/2015
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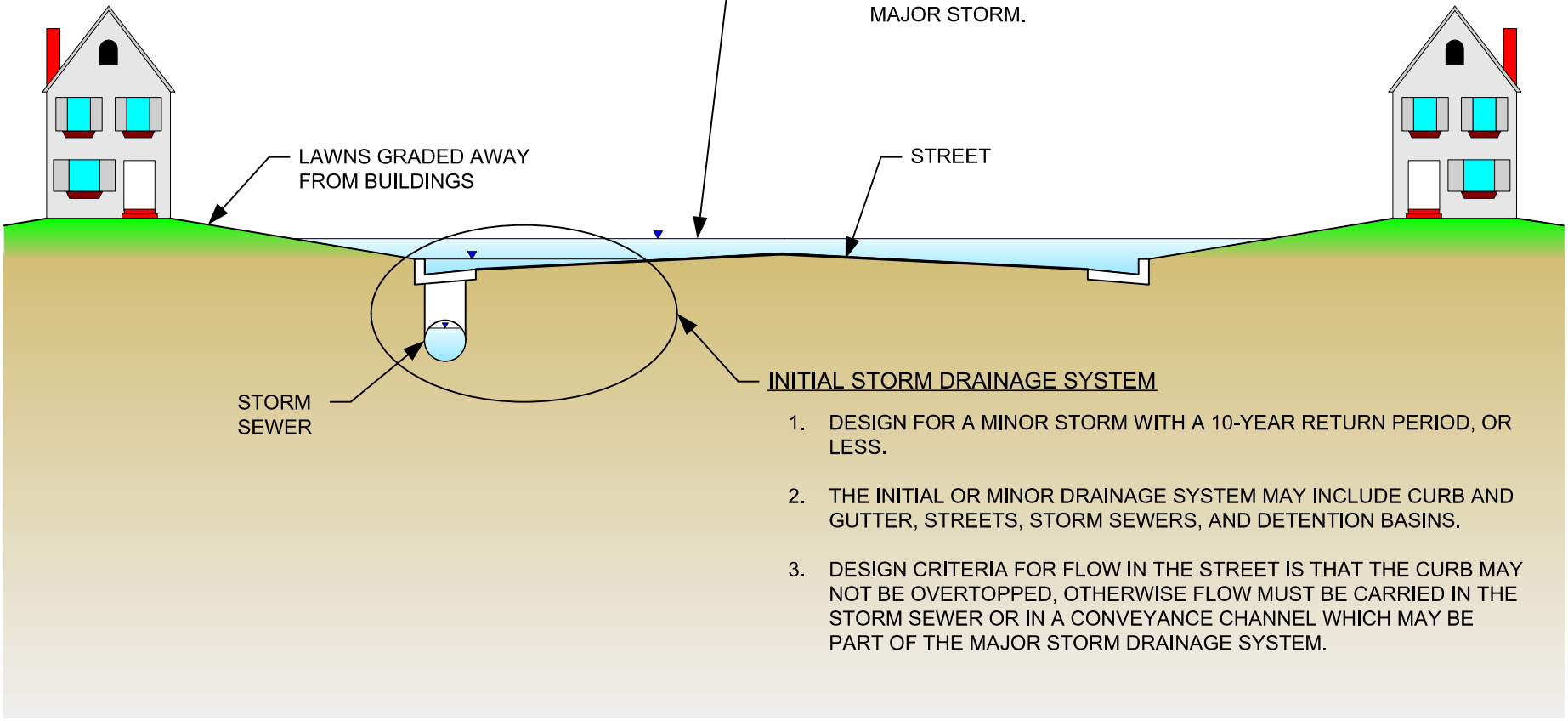
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

NATURAL RESOURCES CONSERVATION SERVICE SOIL DATA

FIGURE 3-2



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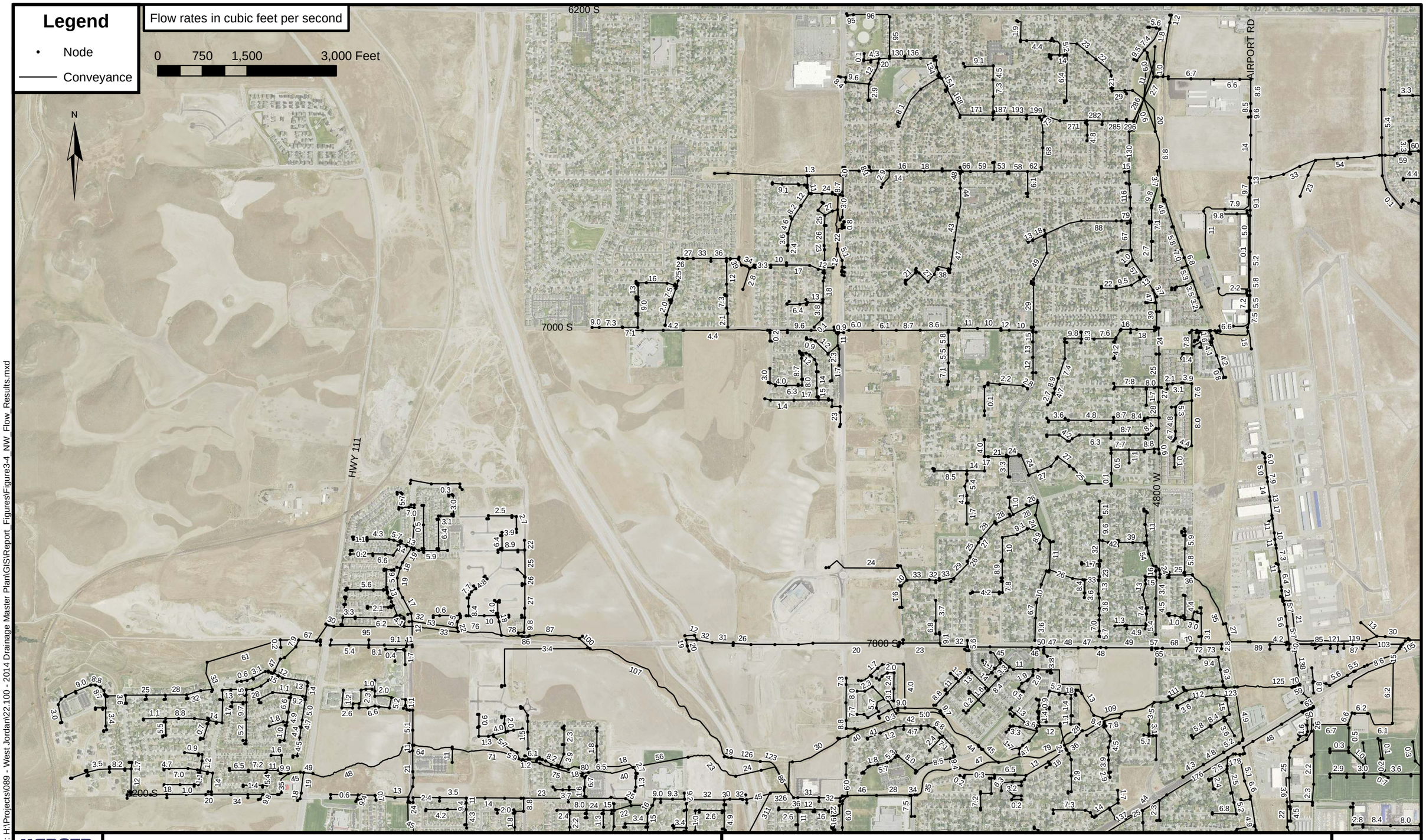
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

URBAN STORM DRAINAGE CRITERIA

FIGURE
3-3



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CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

MODEL 10 YEAR STORM MAXIMUM FLOW RESULTS
NORTHWEST QUADRANT

FIGURE
3-4

Legend

- Node
- Conveyance

Flow rates in cubic feet per second

0 750 1,500 3,000 Feet

N

6200 S
7000 S
7800 S
8200 S
3200 W
2700 W
2200 W
BANGERTER HWY
REDWOOD RD
1300 W

Date: 8/3/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure3-5_NE_Flow_Results.mxd

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CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

MODEL 10 YEAR STORM MAXIMUM FLOW RESULTS
NORTHEAST QUADRANT

FIGURE 3-5

Legend

- Node
- Conveyance

Flow rates in cubic feet per second

N

8200 S

HWY 111

NEW BINGHAM HWY

4800 W

4000 W

0 750 1,500 3,000 Feet

HANSEN ALLEN & LUCE INC ENGINEERS	**CITY OF WEST JORDAN** **STORM DRAINAGE MASTER PLAN**	**MODEL 10 YEAR STORM MAXIMUM FLOW RESULTS** **SOUTHWEST QUADRANT**	**FIGURE** **3-6**

Date: 8/3/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report_Figures\Figure3-6_SW_Flow_Results.mxd

Legend

- Node
- Conveyance

Flow rates in cubic feet per second

N

BANGERTER HWY

OLD BINGHAM HWY

8200 S

9000 S

4000 W

3200 W

2700 W

2200 W

REDWOOD RD

1300 W

0 750 1,500 3,000 Feet

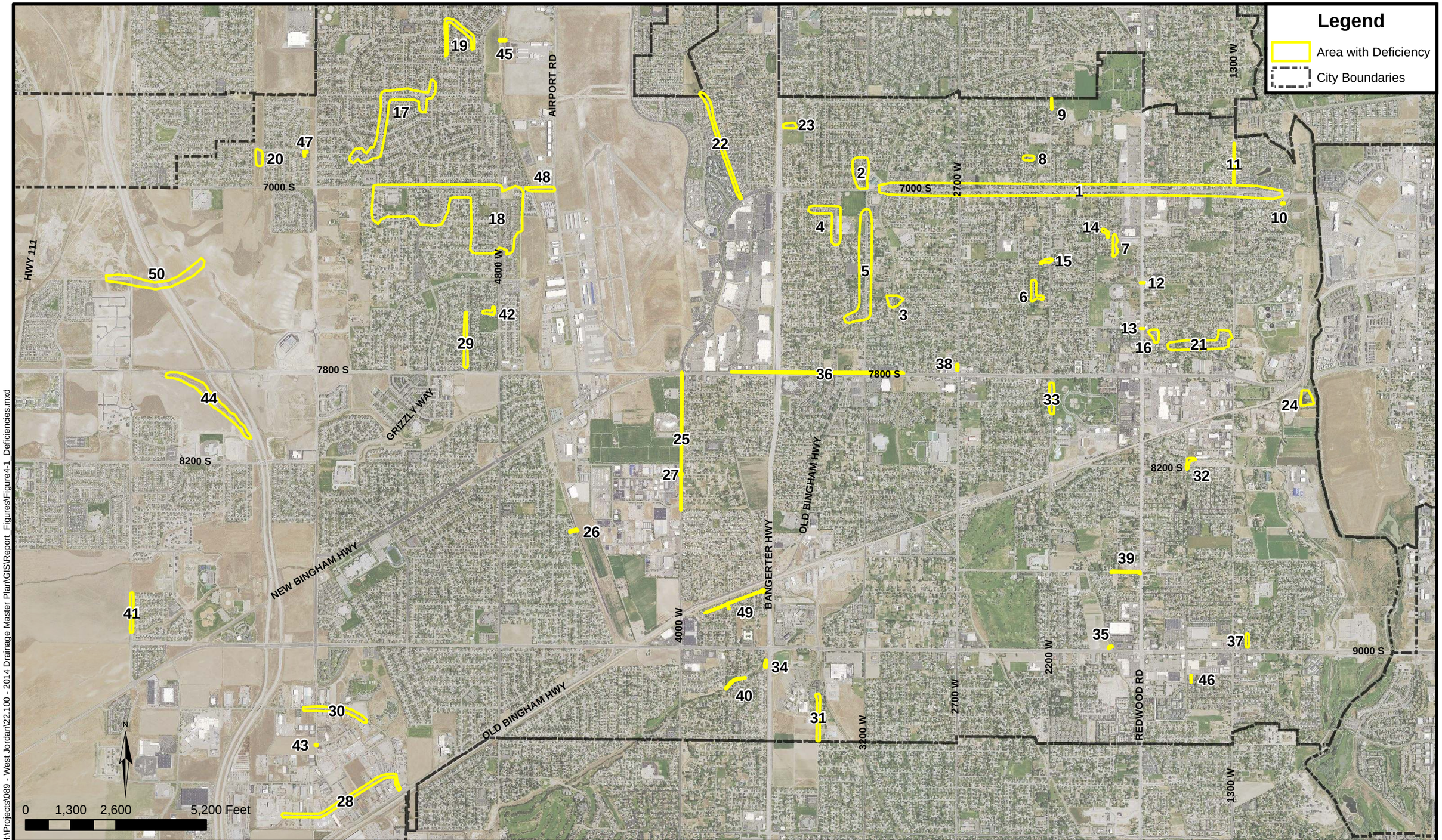
Date: 8/3/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Report Figures\Figure3-7 SE Flow Results.mxd

HANSEN ALLEN & LUCE INC ENGINEERS

CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

MODEL 10 YEAR STORM MAXIMUM FLOW RESULTS
SOUTHEAST QUADRANT

FIGURE
3-7



Date: 8/25/2015
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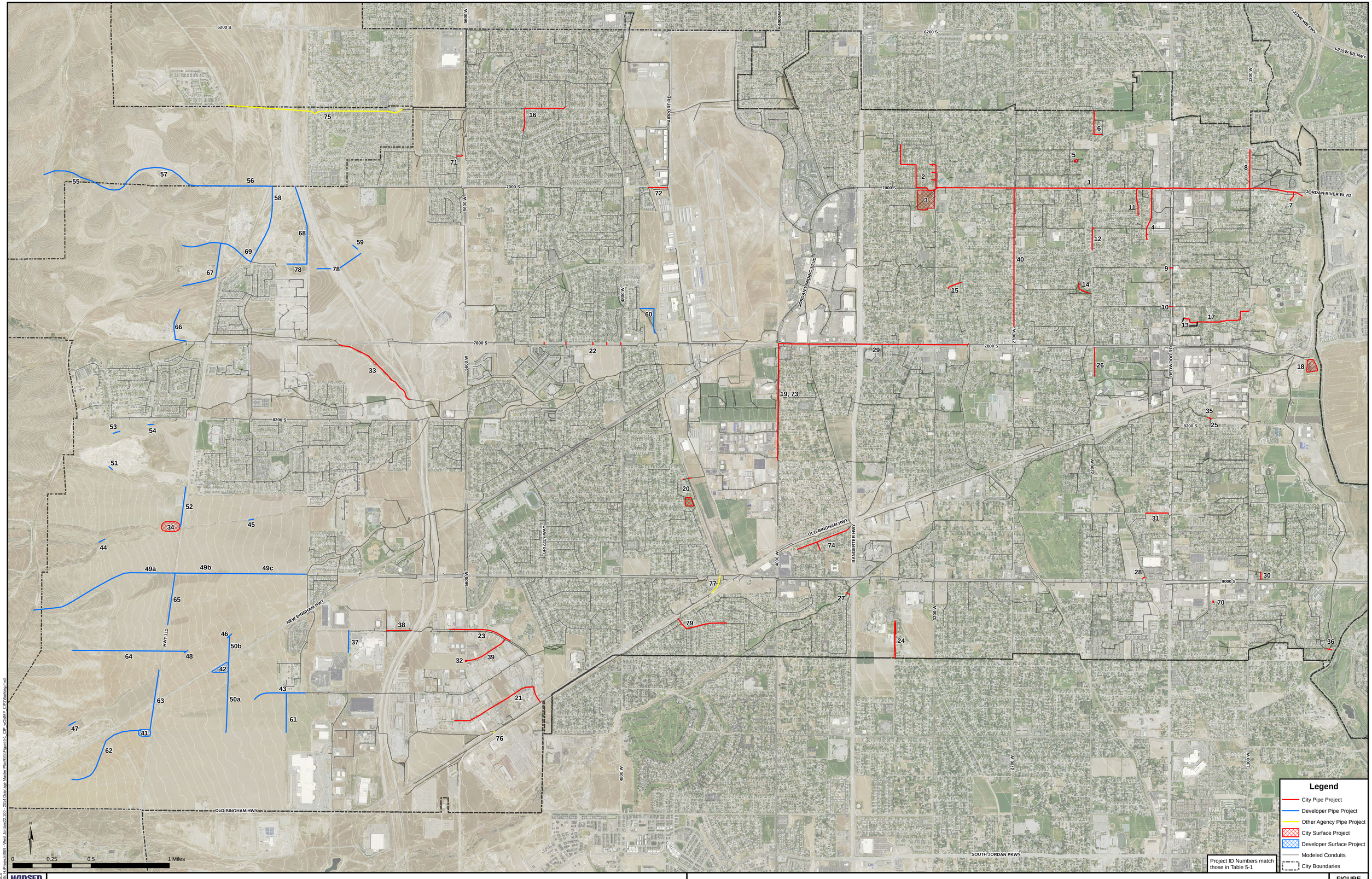
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

STORM DRAINAGE DEFICIENCIES

FIGURE 4-1



Legend

- City Pipe Project
- Developer Pipe Project
- Other Agency Pipe Project
- City Surface Project
- Developer Surface Project
- Modeled Conduits
- City Boundaries

Project ID Numbers match those in Table 5-1

N

0 0.25 0.5 1 Miles

Date: 10/23/2015
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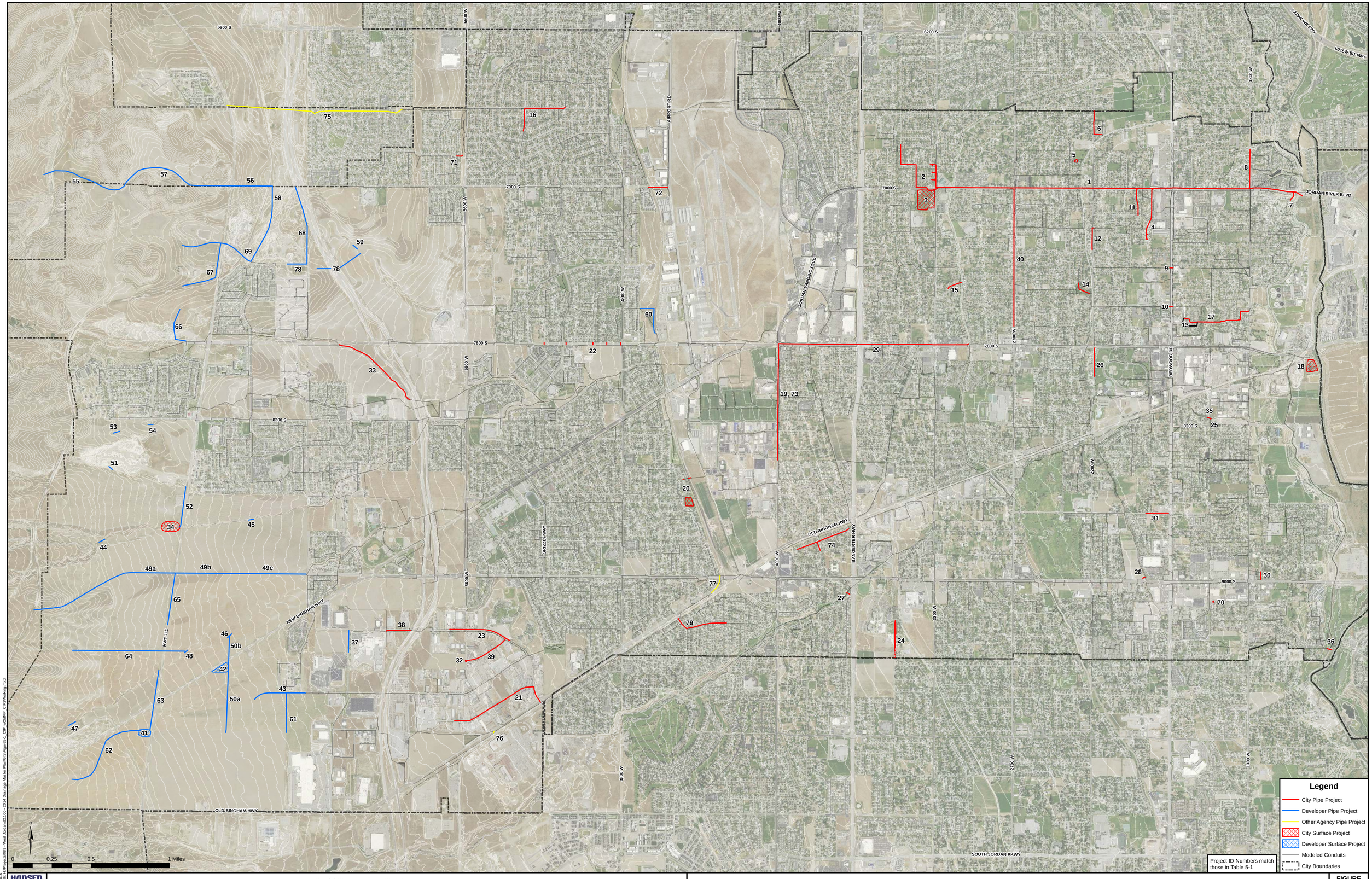
CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

STORM DRAINAGE CAPITAL IMPROVEMENT PROJECTS

FIGURE 5-1



Date: 10/23/2015
Document Path: H:\Projects\089 - West Jordan\22.100 - 2014 Drainage Master Plan\GIS\Figure1-1_CIP_wOutMP_CIPNWorking.mxd

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CITY OF WEST JORDAN
STORM DRAINAGE MASTER PLAN

STORM DRAINAGE CAPITAL IMPROVEMENT PROJECTS

FIGURE 5-1