BICYCLE/PEDESTRIAN PLAN IMPLEMENTATION SIGNING AND MARKING PLANS

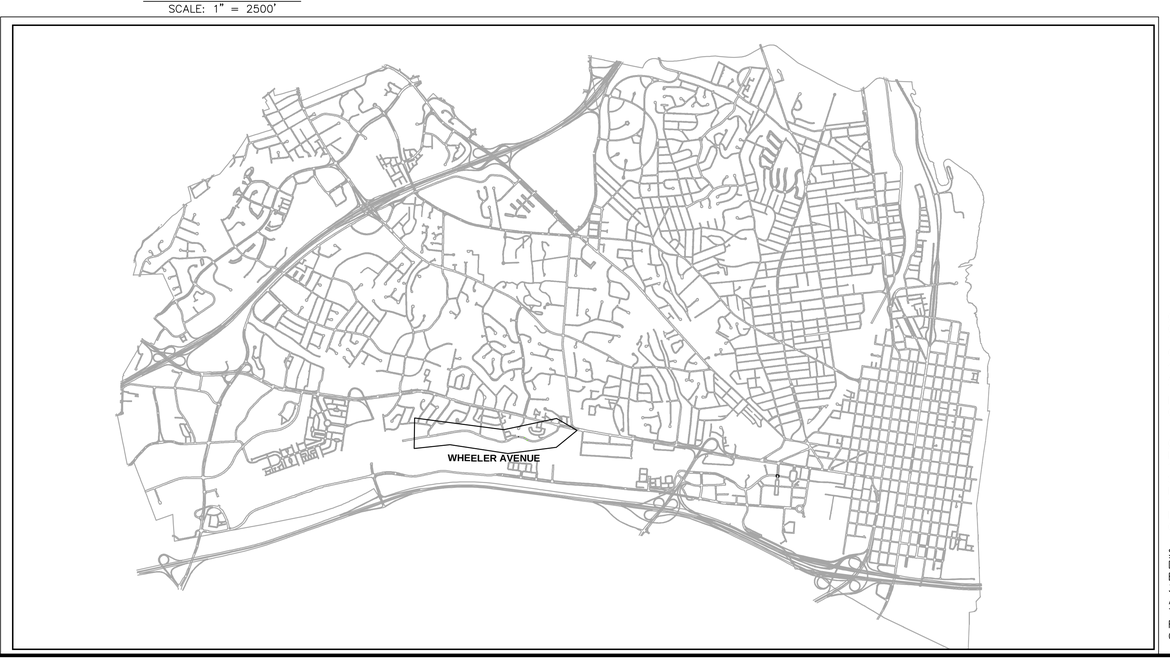
PREPARED FOR:

CITY OF ALEXANDRIA VIRGINIA

STREET SEGMENT	FROM STREET	TO STREET	SEGMENT LENGTH
WHEELER AVE	S. GORDON ST.	DUKE ST.	4,850 FT
S. GORDON ST.	WHEELER AVE.	TRAIL	350 FT

VICINITY MAP

SCALE: 1" = 2500'



CONTACTS

OWNER:
CITY OF ALEXANDRIA
TRANSPORTATION AND ENVIRONMENTAL SERVICES
CITY HALL
421 KING STREET, SUITE 300
ALEXANDRIA, VA 22314
TEL: (703) 746-4017
FAX: (703) 212-8405
CONTACT: HILLARY POOLE, COMPLETE STREETS COORDINATOR

CIVIL ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
11400 COMMERCE PARK DRIVE,
SUITE 400
RESTON, VIRGINIA 20191
TEL: (703) 674-1300
FAX: (703) 674-1350
CONTACT: GEOFF GIFFIN, P.E., PTOE

SURVEYOR:
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
ENGINEERING & DESIGN DIVISION - SURVEY SECTION
301 KING ST., ROOM 4130
ALEXANDRIA, VA 22314
TEL: (703) 838-4966
FAX: (703) 519-3356
CONTACT: ALLEN MARTIN

MISS UTILITY OF VIRGINIA

CALL BEFORE YOU DIG

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO IMPLEMENT PAVEMENT MARKING AND BICYCLE SIGNING PLANS. THE PAVEMENT MARKING PLANS INCLUDE THE INSTALLATION OF BIKE LANE AND SHARED LANE SYMBOLS AND ASSOCIATED BIKE LANE AND WAYFINDING SIGNS. THE PROJECT INCLUDES THE INSTALLATION OF NEW PAVEMENT MARKINGS IN ASSOCIATION WITH PAVEMENT RESURFACING, SHIFTS IN STREET CENTERLINE, AND THE REALLOCATION OF CROSS-SECTION WIDTH BETWEEN TRAVEL LANES, SHARED TRAVEL LANES, BIKE LANES, AND ON-STREET PARKING LANES AS IDENTIFIED IN THE PLANS. SPECIFIC TREATMENTS ALONG EACH SEGMENT ARE FURTHER DESCRIBED:

S. GORDON STREET:
INSTALLATION OF SHARED LANE MARKINGS AND ASSOCIATED SIGNAGE ALONG BOTH DIRECTIONS OF TRAVEL.

WHEELER AVENUE:
BETWEEN S. GORDON STREET AND S. FLOYD STREET, INSTALLATION OF BICYCLE LANES AND ASSOCIATED SIGNAGE ALONG BOTH DIRECTIONS OF TRAVEL.

BETWEEN S. FLOYD STREET AND EXISTING BIKE LANE, CENTERLINE SHIFT AND INSTALLATION OF BICYCLE LANES AND ASSOCIATED SIGNAGE ALONG BOTH DIRECTIONS OF TRAVEL. INSTALLATION OF SHARED LANE MARKINGS IN SPECIFIC AREAS.

BETWEEN POLICE STATION ENTRANCE AND DUKE STREET, CENTERLINE SHIFT AND INSTALLATION OF BICYCLE LANES AND ASSOCIATED SIGNAGE ALONG BOTH DIRECTIONS OF TRAVEL.

INDEX OF SHEETS:

1	TITLE SHEET
2	GENERAL NOTES AND STANDARD DETAILS
3 – 6	WHEELER AVENUE PAVEMENT MARKING & SIGNING PLANS

RECOMMENDED FOR APPROVAL DATE: _____
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RECOMMENDED FOR APPROVAL DATE: _____
CHIEF-ENGINEERING & DESIGN DIVISION

RECOMMENDED FOR APPROVAL DATE: _____
CHIEF-CONSTRUCTION & INSPECTION DIVISION

RECOMMENDED FOR APPROVAL DATE: _____
CHIEF OF TRANSPORTATION

RECOMMENDED FOR APPROVAL DATE: _____
DEPUTY DIRECTOR OF ENGINEERING

RECOMMENDED FOR APPROVAL DATE: _____
DEPUTY DIRECTOR OF OPERATIONS

APPROVED DATE: _____
DIRECTOR

REVISIONS

NO.	DATE	DESCRIPTION
1	7/11/14	LANE WIDTH REVISION
2	8/29/14	SECOND REVISION
3	7/9/15	EXTENDED BIKE LANE REVISION

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Engineering, Planning, and Environmental Consultants

BICYCLE/PEDESTRIAN PLAN IMPLEMENTATION SIGNING AND MARKING PLANS
WHEELER AVENUE
TITLE SHEET

COMMONWEALTH OF VIRGINIA
DAVID B. SAMBA
Lic. No. 0402 052334
PROFESSIONAL ENGINEER
6/19/15

SCALE: 1" = 50'
DRAWN BY: MAW
DESIGNED BY: DBS
CHECKED BY: GDG
DATE: June 20, 2014

SHEET
1 OF 6

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SIGNING AND PAVEMENT MARKING NOTES:

1. ALL PROPOSED SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CITY OF ALEXANDRIA CONSTRUCTION STANDARDS AND SPECIFICATIONS AND WITH EACH OF THE FOLLOWING MANUALS, OR THE MOST RECENT REVISION THERETO:

   A. 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
   B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON TRAFFIC CONTROL DEVICES
   C. VA WORK AREA PROTECTION MANUAL

2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED IN THE PAVEMENT MARKING LEGEND.

3. ANY EXISTING PAVEMENT MARKINGS THAT WILL CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE COMPLETELY ERADICATED.

4. LIMITS SHOWN OF PROPOSED MARKINGS ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO ENSURE THAT PROPOSED PAVEMENT MARKINGS CONTINUE UNTIL EXISTING PAVEMENT MARKINGS CAN BE MATCHED.

5. SPACING BETWEEN DOUBLE YELLOW LINES SHALL BE 4".

6. ALL VEHICLE LANE WIDTHS SHALL BE A MINIMUM OF 11' UNLESS OTHERWISE SPECIFIED. ALL BICYCLE LANE WIDTHS SHALL BE A MINIMUM OF 5' UNLESS OTHERWISE SPECIFIED.

7. ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.

8. PROPOSED SIGNS SHALL BE INSTALLED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E SHALL NOT HANG IN FRONT OF A FACE OF CURB.

9. PROPOSED SIGN POSTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND ANY ADJACENT FACE OF CURB. IF LOCATED IN OR ADJACENT TO ANY SIDEWALKS, A MINIMUM 32" CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.

10. PROPOSED SIGNS AND POSTS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.

11. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT A MINIMUM OF 10 FEET.

12. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NOT CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.

13. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL, OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DIRECTLY DRILLED. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

14. IF SIGNS ARE MOUNTED ON A POLE NOT OWNED BY THE CITY, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER (UTILITY COMPANY OR PROPERTY OWNER). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMISSION.

15. ALL SIGN LOCATIONS SHOWN ON THE PLANS ARE SCHEMATIC AND MAY NOT REFLECT ACTUAL FIELD LOCATION. THE CONTRACTOR SHALL VERIFY EACH LOCATION PRIOR TO INSTALLING A SIGN. IF AT ANY POINT THE CONTRACTOR FINDS A CONFLICT, THE CONTRACT SHALL CONTACT THE ENGINEER PRIOR TO INSTALLING THE PROPOSED SIGN. PROPOSED SIGN LOCATIONS CAN BE ADJUSTED AS APPROVED BY THE ENGINEER.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, SIDEWALK, ETC. THAT ARE DAMAGED DURING CONSTRUCTION.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATION, PAVEMENT MARKINGS AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK. THE WORK ZONE TRAFFIC CONTROL SHALL CONFORM TO THE CURRENT EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL TEMPORARY DEVICES.

18. CITY OF ALEXANDRIA T&ES MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENTS OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. CERTIFIED RESPONSIBLE LAND DISTURBER IS REQUIRED TO ATTEND PRE-CONSTRUCTION MEETINGS.

19. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, WHICH PERMITS CONSTRUCTION ACTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS:

   - MONDAY THROUGH FRIDAY FROM 7AM TO 6PM
   - SATURDAYS FROM 9AM TO 6PM
   - NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS

20. EMERGENCY VEHICLE EASEMENT SIGNAGE AND FIRE HYDRANTS SHALL REMAIN AVAILABLE DURING AND AFTER CONSTRUCTION. IN THE EVENT THAT ROAD CLOSURE IS REQUIRED, THE APPLICANT SHALL CONTACT THE ALEXANDRIA FIRE DEPARTMENT'S COMMUNICATIONS DIVISION AT 703-838-4660.

21. ALL EXISTING RESIDENTIAL AND COMMERCIAL ENTRANCES SHALL REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

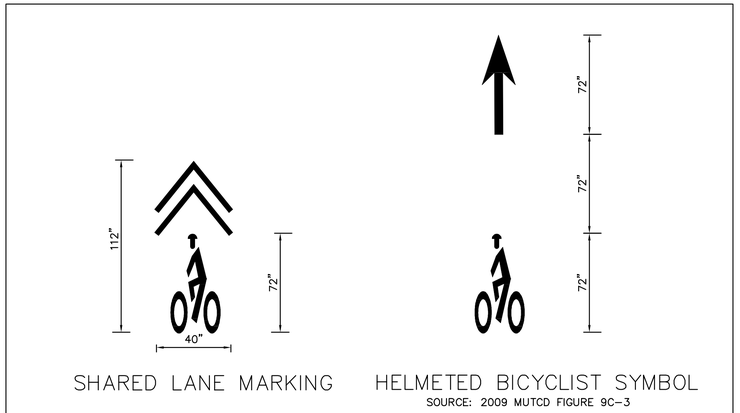
22. SIDEWALKS AND CROSSWALKS SHALL REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

23. ALL LANE WIDTHS SHALL BE A MINIMUM OF 10 FEET DURING CONSTRUCTION.

24. LANE CLOSURES REQUIRE A MINIMUM OF 5 BUSINESS DAYS ADVANCE NOTICE TO CITY ENGINEER FOR APPROVAL.

25. SOURCE OF BASE MAPPING IS CITY OF ALEXANDRIA GEOGRAPHIC INFORMATION SYSTEM (GIS). ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING MATERIALS FOR CONSTRUCTION. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, ANY DISCREPANCY SHALL BE REPORTED TO THE CITY ENGINEER PRIOR TO BEGINNING WORK. PROPOSED PAVEMENT MARKINGS AND SIGNAGE MAY BE ADJUSTED AS DIRECTED BY THE CITY ENGINEER.

26. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY PRIOR TO BEGINNING WORK. ANY DAMAGE TO UTILITIES MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT HIS EXPENSE.



ROADWAY PAVEMENT MARKING DETAILS

BICYCLE MARKING LEGEND

(D) HELMETED BICYCLIST SYMBOL

(E) BIKE LANE ARROW

(G) SHARED LANE MARKING

SIGNING LEGEND

PROPOSED SIGN

REVISIONS

NO.	DATE	DESCRIPTION
1	7/11/14	LANE WIDTH REVISION
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BICYCLE/PEDESTRIAN PLAN IMPLEMENTATION
SIGNING AND MARKING PLANS

GENERAL NOTES AND STANDARD DETAILS

COMMONWEALTH OF VIRGINIA
DAVID B. SAMBA
Lic. No. 0402 052334
6/10/15
PROFESSIONAL ENGINEER

SCALE: 1" = 50'
DRAWN BY: MAW
DESIGNED BY: DBS
CHECKED BY: GDG
DATE: June 20, 2014

SHEET
2 OF 6

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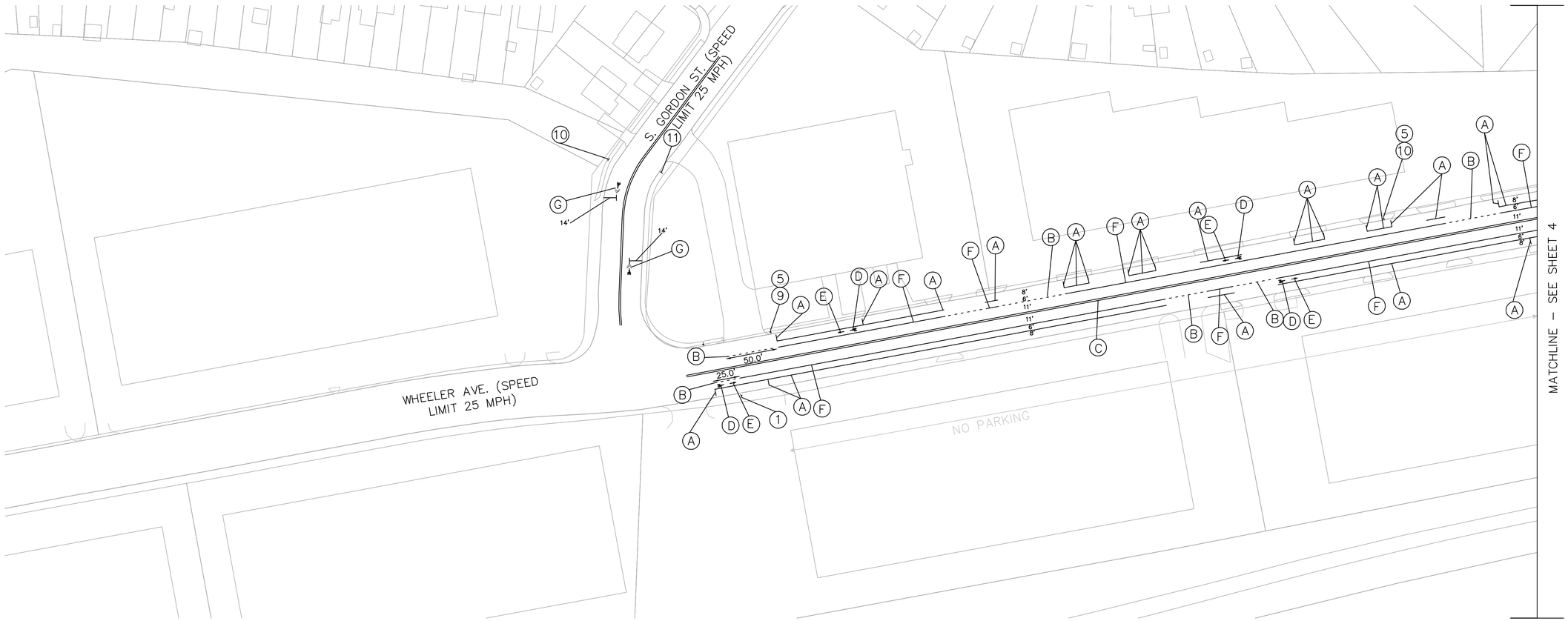

PAVEMENT MARKING LEGEND

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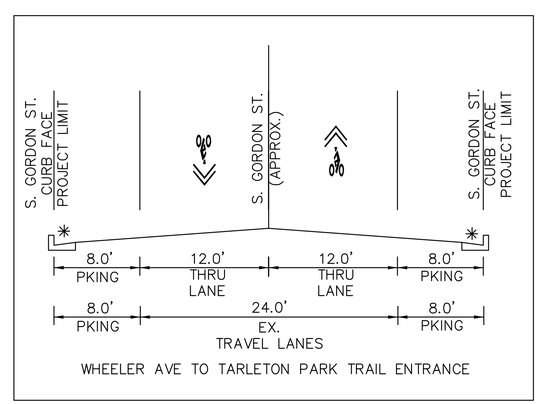
- (B) TYPE B, CLASS I, WHITE, 6" WIDTH, 2' LONG, 4' SPACE
- (C) TYPE B, CLASS I, YELLOW, 4" WIDTH DOUBLE LINE
- (D) TYPE B, CLASS I, WHITE, HELMETED BICYCLIST SYMBOL, 72" HEIGHT
- (E) TYPE B, CLASS I, WHITE, BIKE LANE ARROW, 72" HEIGHT
- (F) TYPE B, CLASS I, WHITE, 6" WIDTH
- (G) TYPE B, CLASS I, WHITE, SHARED LANE MARKING, 112" HEIGHT
- (H) TYPE B, CLASS I, WHITE, 24" WIDTH

SIGN LEGEND

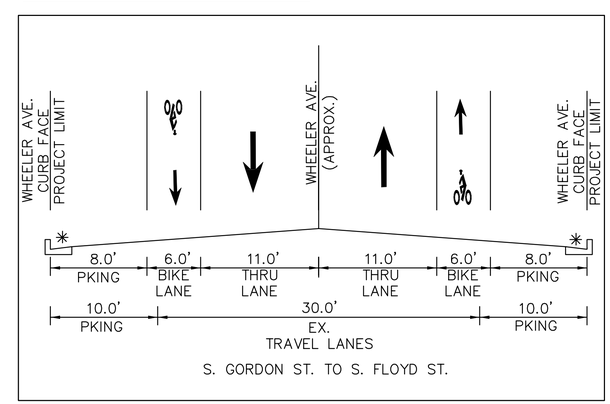
1	R3-17 (24"x18")	BIKE LANE
2	R3-17aP (24"x8")	AHEAD
3	R3-17 (24"x18")	BIKE LANE
4	R3-17bP (24"x8")	ENDS
5	D11-1 (24"x18")	BIKE ROUTE
6	R4-11 (30"x30")	MAY USE FULL LANE
7	R4-4 (36"x30")	BEGIN RIGHT TURN LANE YIELD TO BIKES
8	D1-1b (30"x9")	King Street
9	D1-1b (24"x9")	Holmes Run Trail
10	D1-1b (24"x9")	Holmes Run Trail
11	D1-1b (24"x9")	Holmes Run Trail

TYPICAL SECTION – S. GORDON STREET



✳ GUTTERS ARE TYPICALLY 2' WIDE

TYPICAL SECTION – WHEELER AVENUE



✳ GUTTERS ARE TYPICALLY 2' WIDE

GRAPHIC SCALE IN FEET
0 25 50 100

REVISIONS

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1	7/11/14	LANE WIDTH REVISION
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CITY OF ALEXANDRIA ARCHIVES

BICYCLE/PEDESTRIAN PLAN IMPLEMENTATION SIGNING AND MARKING PLANS

WHEELER AVENUE

COMMONWEALTH OF VIRGINIA
DAVID B. SAMBA
Lic. No. 0402 052334
6/9/15
PROFESSIONAL ENGINEER

SCALE: 1" = 50'
DRAWN BY: MAW
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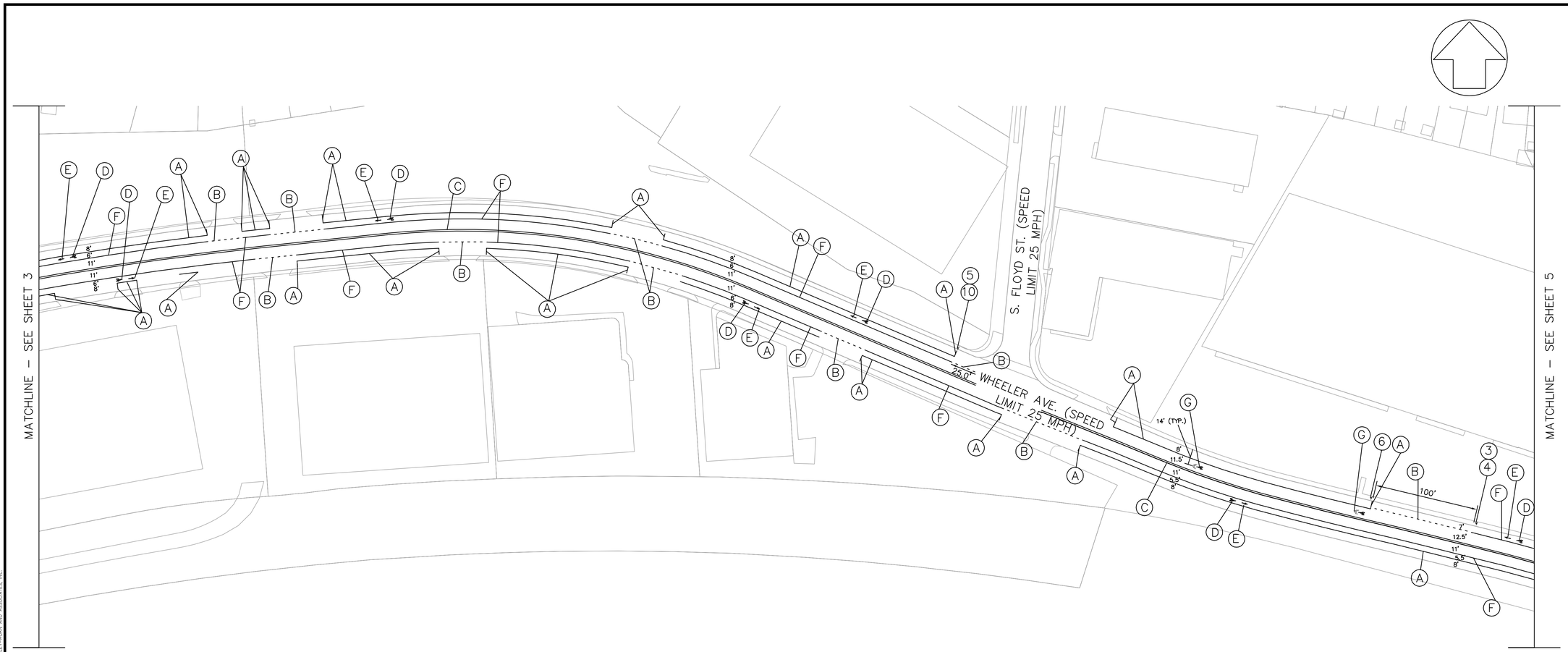

PAVEMENT MARKING LEGEND

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- (B) TYPE B, CLASS I, WHITE, 6" WIDTH, 2' LONG, 4' SPACE
- (C) TYPE B, CLASS I, YELLOW, 4" WIDTH DOUBLE LINE
- (D) TYPE B, CLASS I, WHITE, HELMETED BICYCLIST SYMBOL, 72" HEIGHT
- (E) TYPE B, CLASS I, WHITE, BIKE LANE ARROW, 72" HEIGHT
- (F) TYPE B, CLASS I, WHITE, 6" WIDTH
- (G) TYPE B, CLASS I, WHITE, SHARED LANE MARKING, 112" HEIGHT
- (H) TYPE B, CLASS I, WHITE, 24" WIDTH

SIGN LEGEND

1	R3-17 (24"x18")	BIKE LANE
2	R3-17aP (24"x8")	AHEAD
3	R3-17 (24"x18")	BIKE LANE
4	R3-17bP (24"x8")	ENDS
5	D11-1 (24"x18")	BIKE ROUTE
6	R4-11 (30"x30")	MAY USE FULL LANE
7	R4-4 (36"x30")	BEGIN RIGHT TURN LANE YIELD TO BIKES
8	D1-1b (30"x9")	King Street
9	D1-1b (24"x9")	Holmes Run Trail
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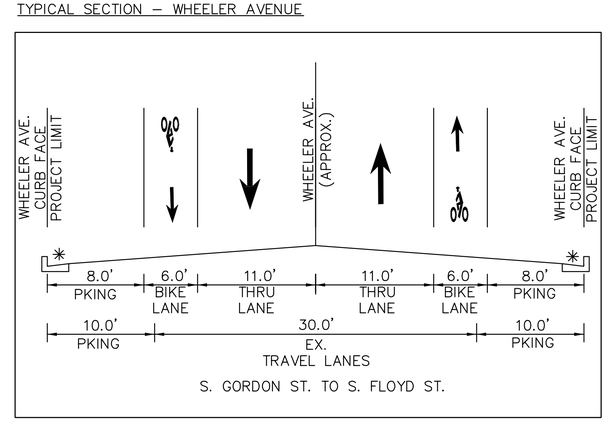
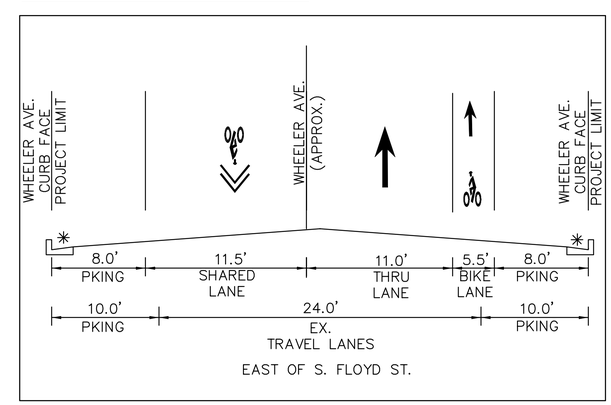
TYPICAL SECTION – WHEELER AVENUE



S. GORDON ST. TO S. FLOYD ST.

✳ GUTTERS ARE TYPICALLY 2' WIDE

TYPICAL SECTION – WHEELER AVENUE



EAST OF S. FLOYD ST.

✳ GUTTERS ARE TYPICALLY 2' WIDE

GRAPHIC SCALE IN FEET
0 25 50 100

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CITY OF ALEXANDRIA VIRGINIA

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WHEELER AVENUE

COMMONWEALTH OF VIRGINIA
DAVID B. SAMBA
Lic. No. 0402052334
6/10/15
PROFESSIONAL ENGINEER

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SHEET
4 OF 6

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PAVEMENT MARKING LEGEND

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10	D1-1b (24"x9")	Holmes Run Trail
11	D1-1b (24"x9")	Holmes Run Trail
12	R7-9 (12"x18")	NO PARKING BIKE LANE

GRAPHIC SCALE IN FEET
0 25 50 100

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WHEELER AVENUE

COMMONWEALTH OF VIRGINIA
DAVID B. SAMBA
Lic. No. 0402 052334
6/10/15
PROFESSIONAL ENGINEER

SCALE: 1" = 50'
DRAWN BY: EC
DESIGNED BY: DBS
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SHEET
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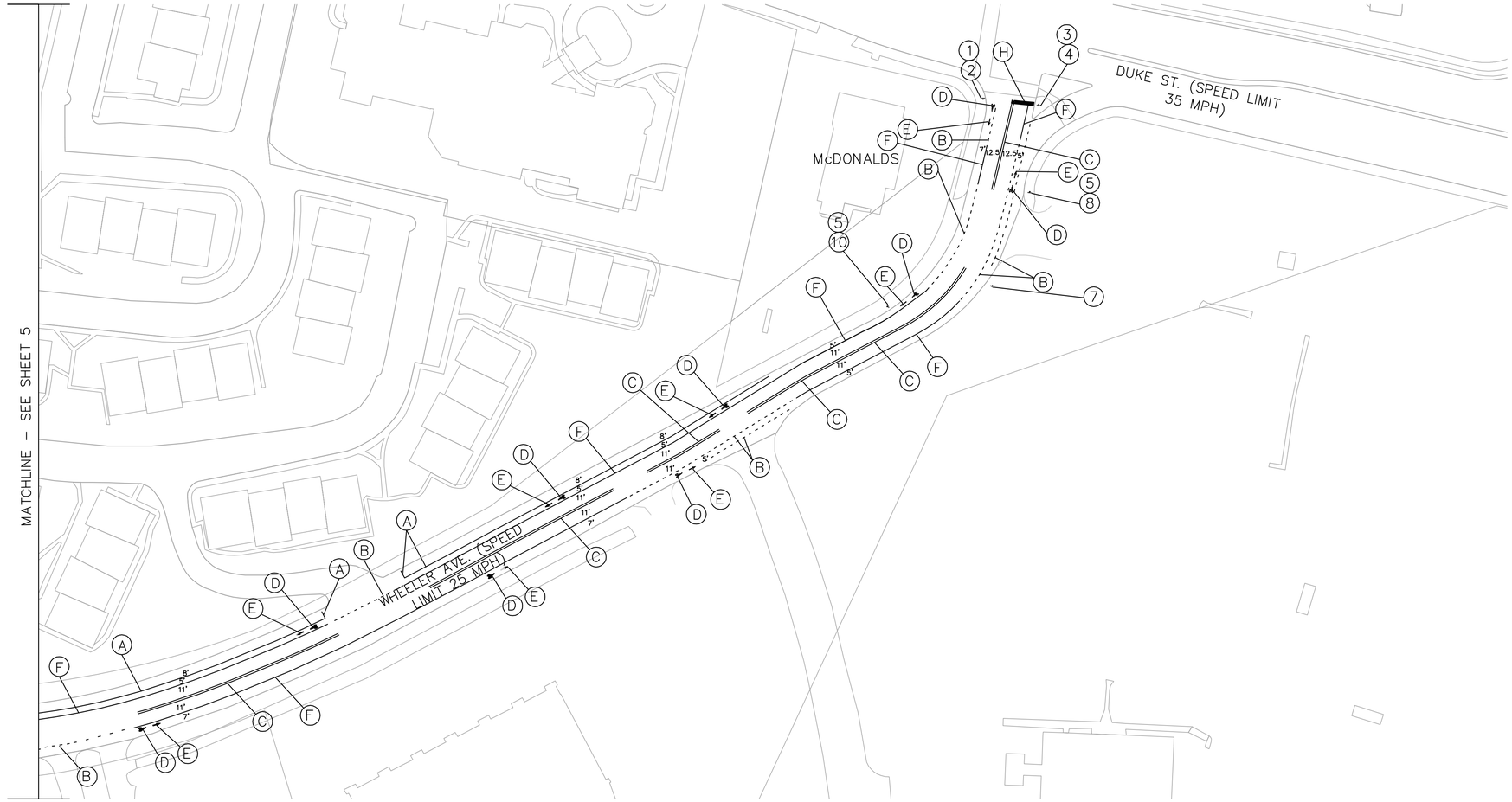


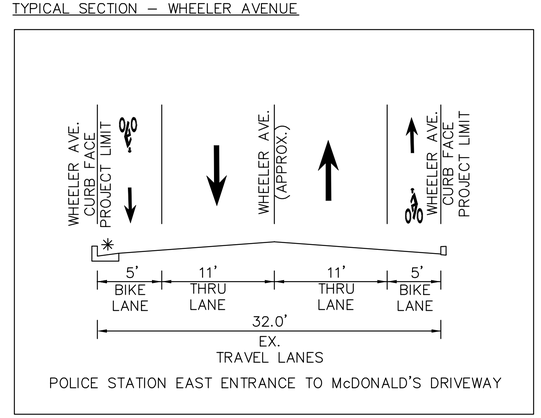
PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE, 4" WIDTH
- (B) TYPE B, CLASS I, WHITE, 6" WIDTH, 2' LONG, 4' SPACE
- (C) TYPE B, CLASS I, YELLOW, 4" WIDTH DOUBLE LINE
- (D) TYPE B, CLASS I, WHITE, HELMETED BICYCLIST SYMBOL, 72" HEIGHT
- (E) TYPE B, CLASS I, WHITE, BIKE LANE ARROW, 72" HEIGHT
- (F) TYPE B, CLASS I, WHITE, 6" WIDTH
- (G) TYPE B, CLASS I, WHITE, SHARED LANE MARKING, 112" HEIGHT
- (H) TYPE B, CLASS I, WHITE, 24" WIDTH

SIGN LEGEND

1	R3-17 (24"x18")	BIKE LANE
2	R3-17aP (24"x8")	AHEAD
3	R3-17 (24"x18")	BIKE LANE
4	R3-17bP (24"x8")	ENDS
5	D11-1 (24"x18")	BIKE ROUTE
6	R4-11 (30"x30")	MAY USE FULL LANE
7	R4-4 (36"x30")	BEGIN RIGHT TURN LANE / YIELD TO BIKES
8	D1-1b (30"x9")	King Street
9	D1-1b (24"x9")	Holmes Run Trail
10	D1-1b (24"x9")	Holmes Run Trail
11	D1-1b (24"x9")	Holmes Run Trail

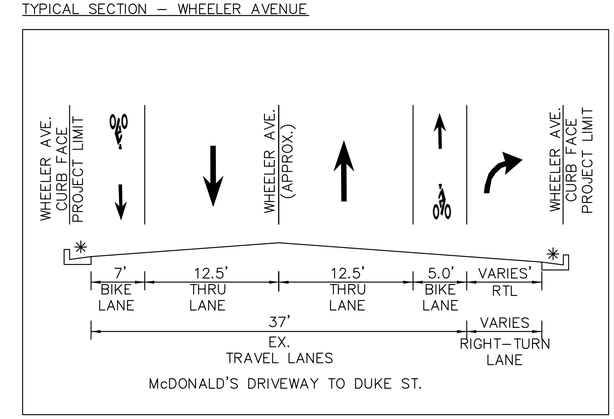
TYPICAL SECTION – WHEELER AVENUE



POLICE STATION EAST ENTRANCE TO McDONALD'S DRIVEWAY

* GUTTER IS TYPICALLY 2' WIDE

TYPICAL SECTION – WHEELER AVENUE



McDONALD'S DRIVEWAY TO DUKE ST.

* GUTTERS ARE TYPICALLY 2' WIDE

GRAPHIC SCALE IN FEET
0 25 50 100

REVISIONS		
NO.	DATE	DESCRIPTION
1	7/11/14	LANE WIDTH REVISION
2	8/29/14	SECOND REVISION
3	7/9/15	EXTENDED BIKE LANE REVISION

Kimley»Horn
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CITY OF ALEXANDRIA ARCHIVES

BICYCLE/PEDESTRIAN PLAN IMPLEMENTATION SIGNING AND MARKING PLANS

WHEELER AVENUE

COMMONWEALTH OF VIRGINIA
DAVID B. SAMBA
Lic. No. 0402 052334
6/9/15
PROFESSIONAL ENGINEER

SCALE: 1" = 50'
DRAWN BY: MAW
DESIGNED BY: DBS
CHECKED BY: GDG
DATE: June 20, 2014

SHEET
6 OF 6

File Name: x-110104018 – june2015update.dwg

C:\Users\David.Samba\appdata\local\temp\AcPublish_12128\x-110104018 – june2015update.dwg, Layout:Wheeler – Plan 4 Jul 09, 2015 david.samba
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