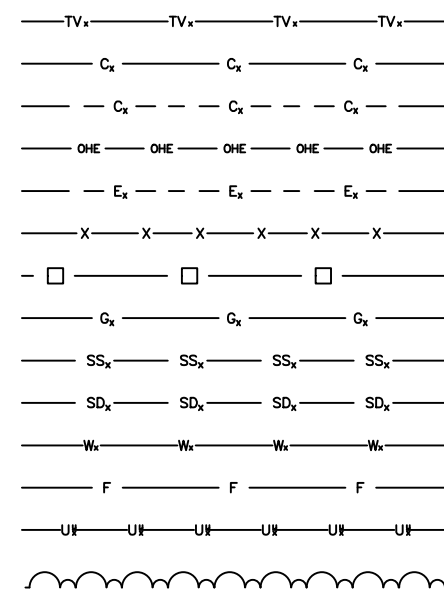


**LEGEND**

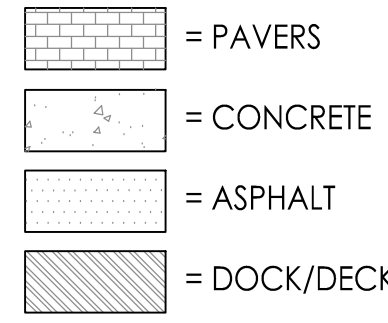
- CABLE TV
- COMMUNICATIONS LINE, OVERHEAD
- COMMUNICATIONS LINE, UNDERGROUND
- ELECTRIC LINE, OVERHEAD
- ELECTRIC LINE, UNDERGROUND
- FENCE
- GUARD RAIL
- NATURAL GAS LINE
- SANITARY SEWER LINE
- STORM DRAIN PIPE
- WATER LINE, UNDERGROUND
- WATER LINE FOR FIRE, UNDERGROUND
- UNDERGROUND LINE (UNKNOWN TYPE)
- TREE LINE



- ⊙ BOLLARD
- ⊖ CLEAN-OUT
- Ⓣ COMMUNICATIONS MANHOLE
- Ⓜ CONTROL POINT
- Ⓢ DECIDUOUS TREE
- ⓔ ELECTRIC MANHOLE
- Ⓜ FIRE HYDRANT
- Ⓜ GAS METER
- Ⓜ GAS VALVE
- GUY WIRE
- Ⓜ JUNCTION BOX
- Ⓜ LIGHT POLE
- Ⓜ MANHOLE (UNKNOWN TYPE)
- Ⓜ SANITARY SEWER MANHOLE
- SIGN
- Ⓜ STORM DRAIN MANHOLE
- Ⓜ TRAFFIC LIGHT POLE
- UTILITY POLE
- Ⓜ WATER METER
- Ⓜ WATER VALVE
- Ⓜ WATER MANHOLE

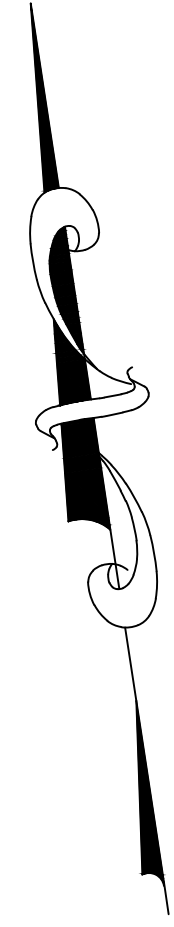
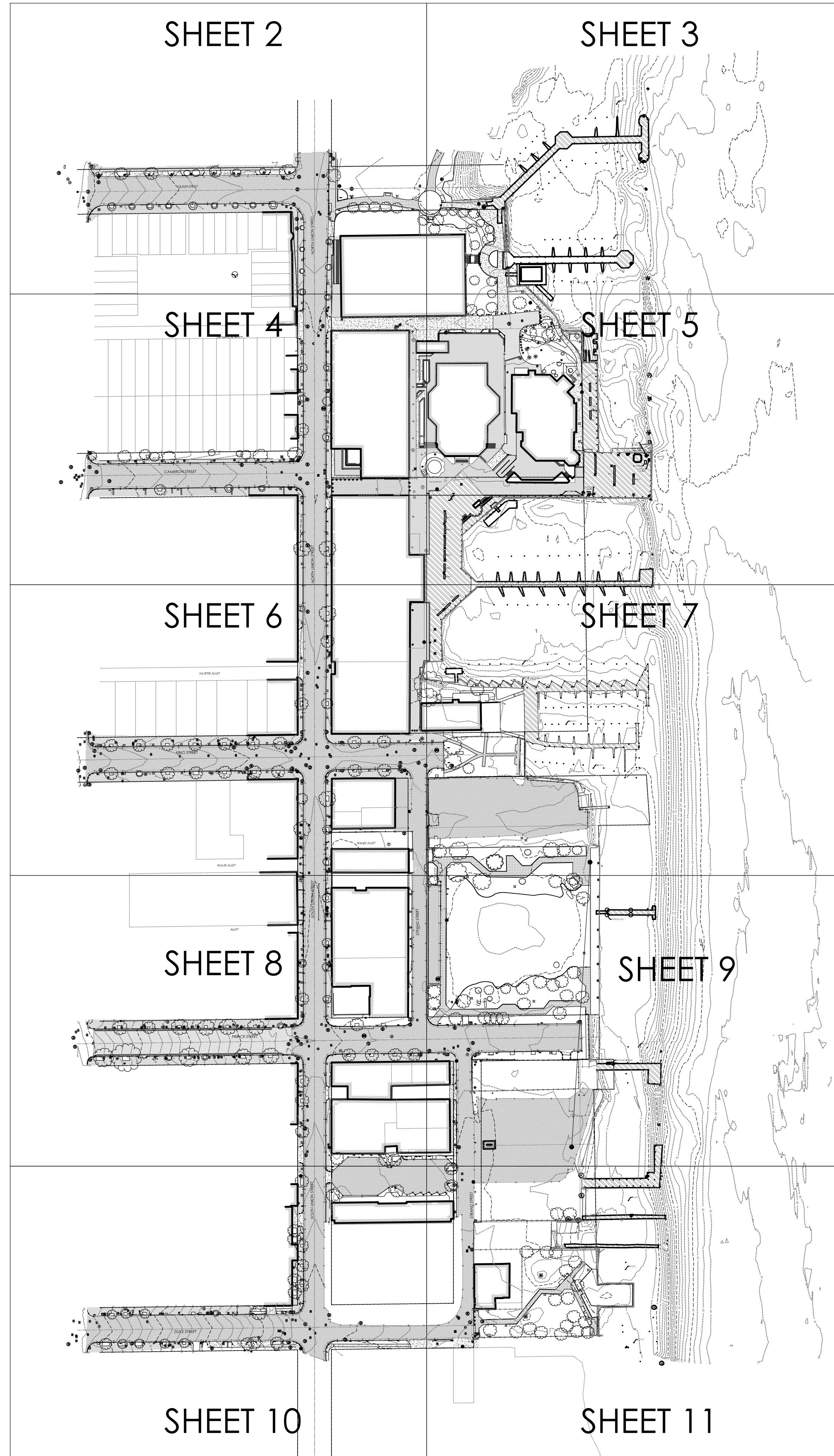
**ABBREVIATIONS:**

- ABN-ABANDONED
- CONC- CONCRETE SURFACE
- DIP- DUCTILE IRON PIPE
- EP-EDGE OF PAVEMENT
- FF- FINISH FLOOR
- INV- INVERT ELEVATION
- PVC-POLYCHLORIDE VINYL PIPE
- RCP- REINFORCED CONCRETE PIPE
- TC- TOP OF CURB ELEVATION
- TCP- TERRA COTTA PIPE



**SURVEY NOTES:**

1. THE INFORMATION SHOWN HEREON IS IN VIRGINIA STATE PLANE NORTH NAD83(2011) HORIZONTAL AND NAVD88 VERTICAL DATUMS.
2. ANY AND ALL EVIDENCE OF UTILITIES SHOWN HEREON IS BASED ON (I) FIELD LOCATION OF ABOVE GROUND EVIDENCE AND (II) ACCESSIBLE INVERTS AND PIPE SIZES OF STORM AND SEWER STRUCTURES.
3. FIELDWORK FOR THIS SURVEY WAS COMPLETED IN MAY, 2016.
4. BATHYMETRICS INFORMATION SHOWN ALONG THE ALEXANDRIA WATERFRONT WAS OBTAINED FROM GBA SERVICES ON APRIL 21, 2016.

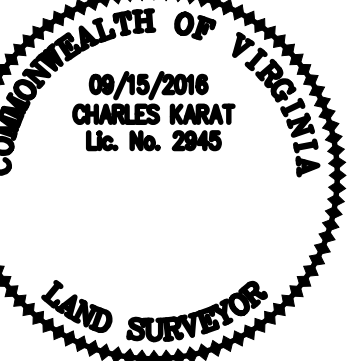


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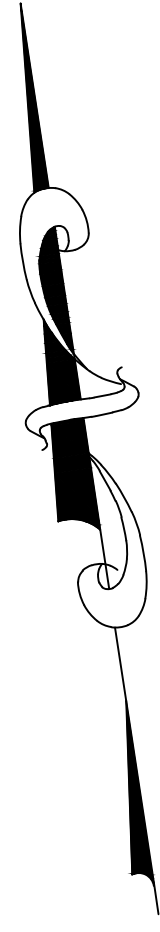


CITY OF ALEXANDRIA - WATERFRONT FLOOD MITIGATION IMPLEMENTATION PROJECT  
**TOPOGRAPHIC SURVEY**  
DUKE ST. TO QUEEN ST. & UNION ST. TO POTOMAC RIVER  
HISTORICAL DISTRICT, ALEXANDRIA, VIRGINIA

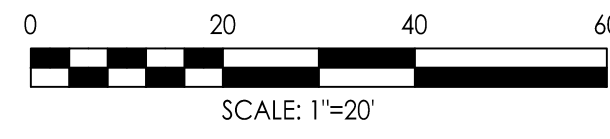
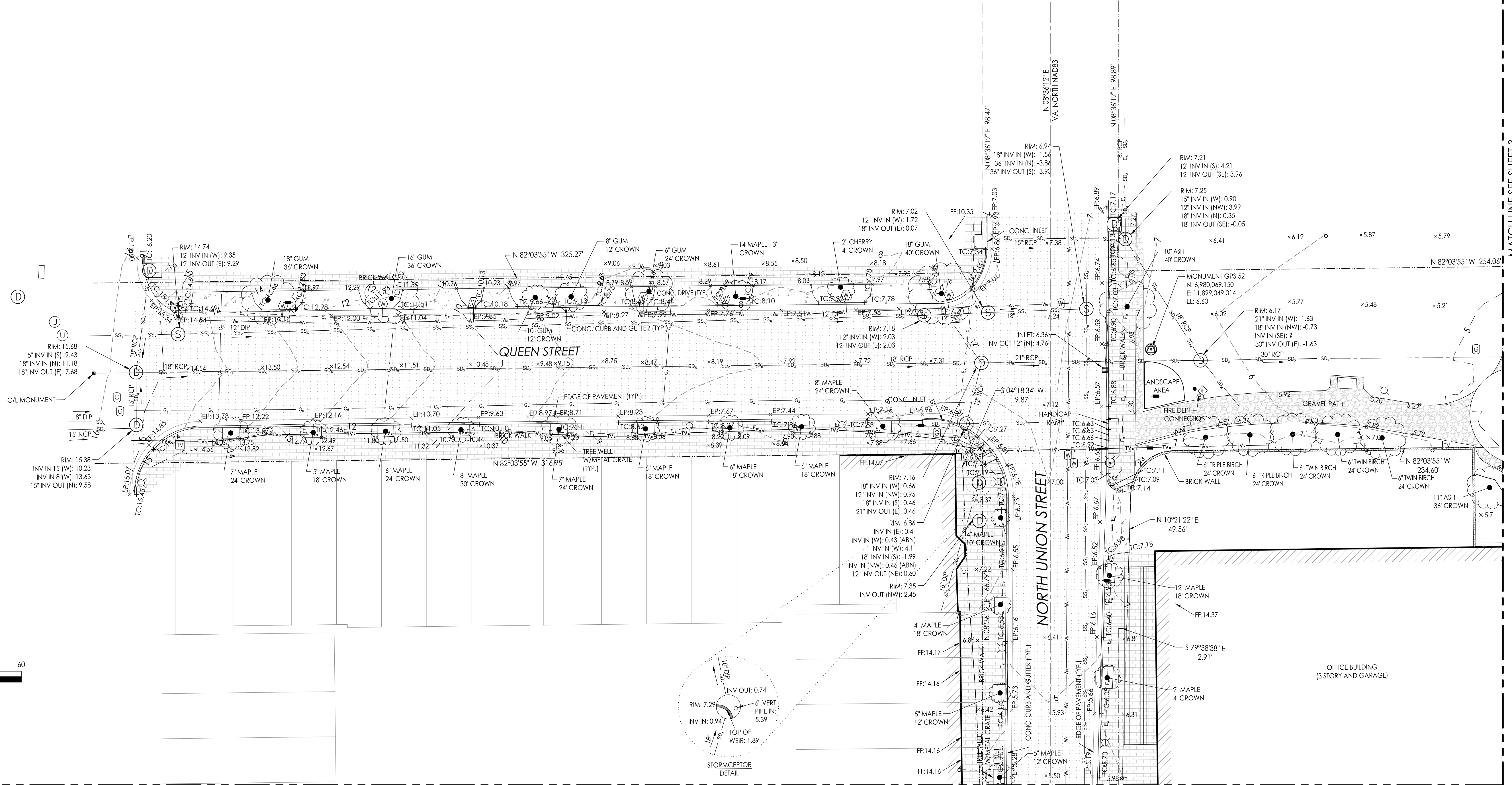
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AUTHORITY PLAN NO:  
PROJECT NO: 2029041842  
SCALE: 1"=10'  
DATE: 09/12/2016  
DESIGN: JLS  
DRAWN: JLS  
CHECKED: GDG

SHEET NO:  
**1 OF 11**



Drawing name: Z:\Chantilly - 041842\CADD\ACTIVE\2029041842\_base\_20170303.dwg SHEET 2 Aug 03, 2017 10:57am by: jfstodler



MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 3

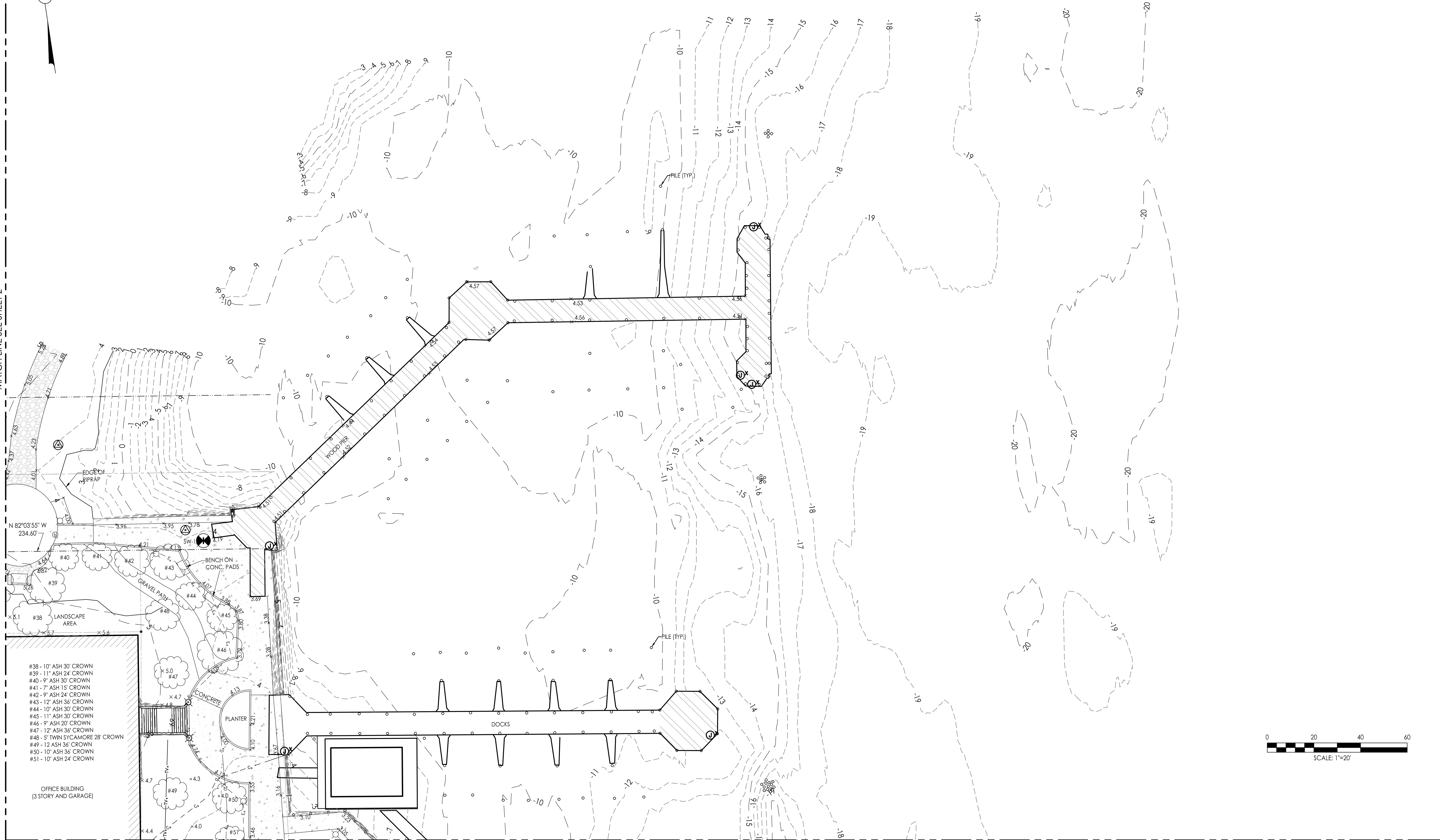
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 SCALE: 1"=20'  
 DATE: 09/12/2016  
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 CHECKED: GDG  
 SHEET NO:

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MATCH LINE SEE SHEET 2

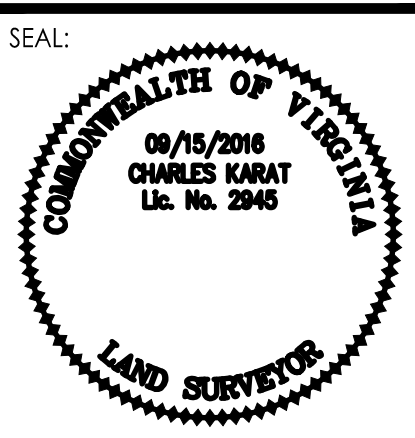
MATCH LINE SEE SHEET 5



- #38 - 10" ASH 30' CROWN
- #39 - 11" ASH 24' CROWN
- #40 - 9" ASH 30' CROWN
- #41 - 7" ASH 15' CROWN
- #42 - 9" ASH 24' CROWN
- #43 - 12" ASH 36' CROWN
- #44 - 10" ASH 30' CROWN
- #45 - 11" ASH 30' CROWN
- #46 - 9" ASH 20' CROWN
- #47 - 12" ASH 36' CROWN
- #48 - 5" TWIN SYCAMORE 28' CROWN
- #49 - 12" ASH 36' CROWN
- #50 - 10" ASH 36' CROWN
- #51 - 10" ASH 24' CROWN

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**TOPOGRAPHIC SURVEY**  
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 HISTORICAL DISTRICT, ALEXANDRIA, VIRGINIA

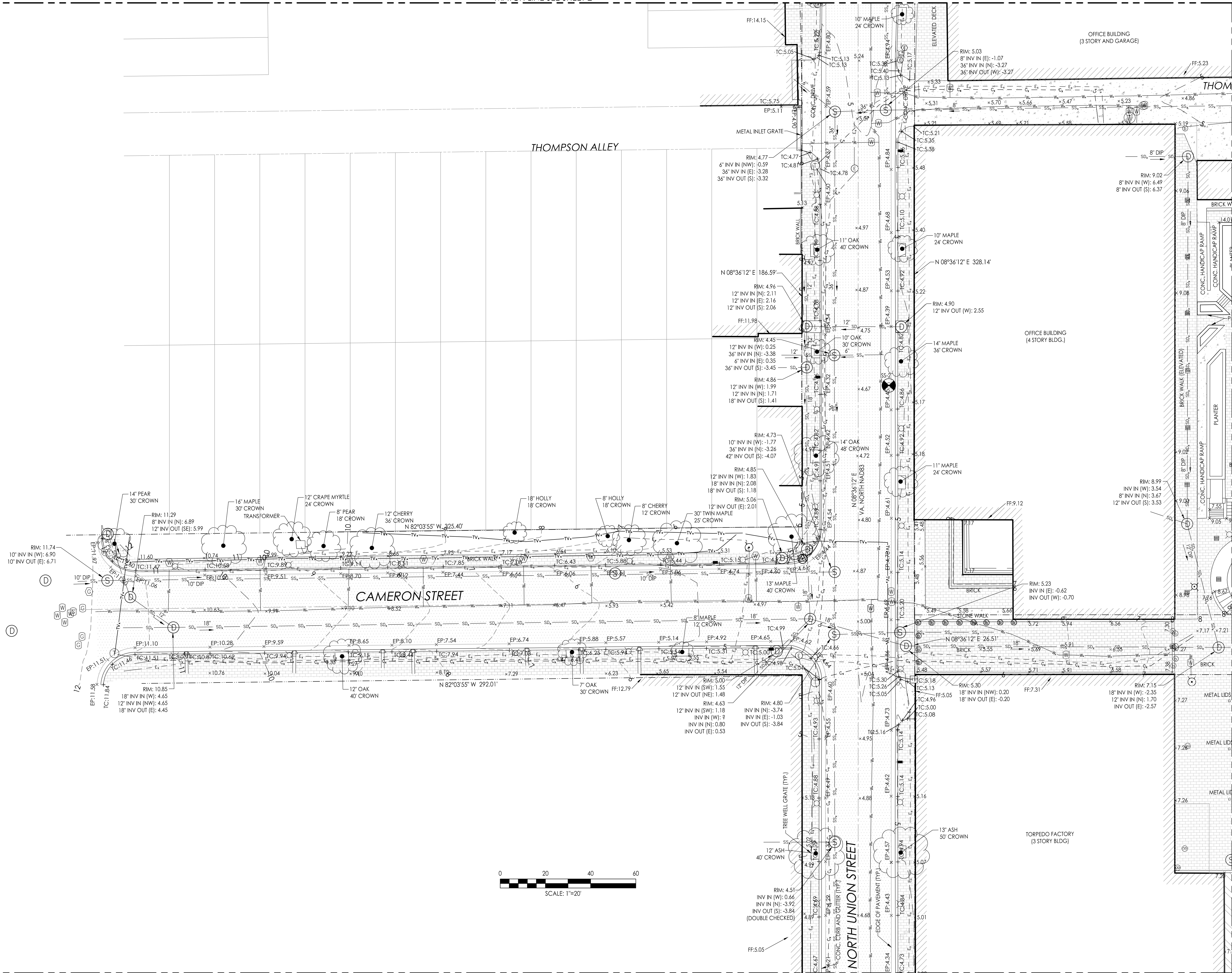
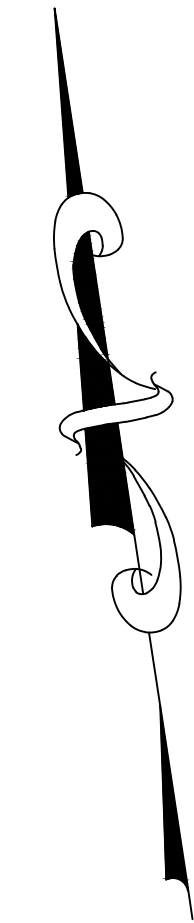
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 SCALE: 1"=20'  
 DATE: 09/12/2016  
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MATCH LINE SEE SHEET 2

THOMPSON ALLEY

MATCH LINE SEE SHEET 6



MATCH LINE SEE SHEET 5

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 L.S. No. 2945  
 LAND SURVEYOR

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**TOPOGRAPHIC SURVEY**  
 DUKE ST. TO QUEEN ST. &  
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 HISTORICAL DISTRICT, ALEXANDRIA, VIRGINIA

REV	DATE	DESCRIPTION	DSN	CHK

AUTHORITY PLAN NO: \_\_\_\_\_

PROJECT NO: 2029041842

SCALE: 1"=20'

DATE: 09/12/2016

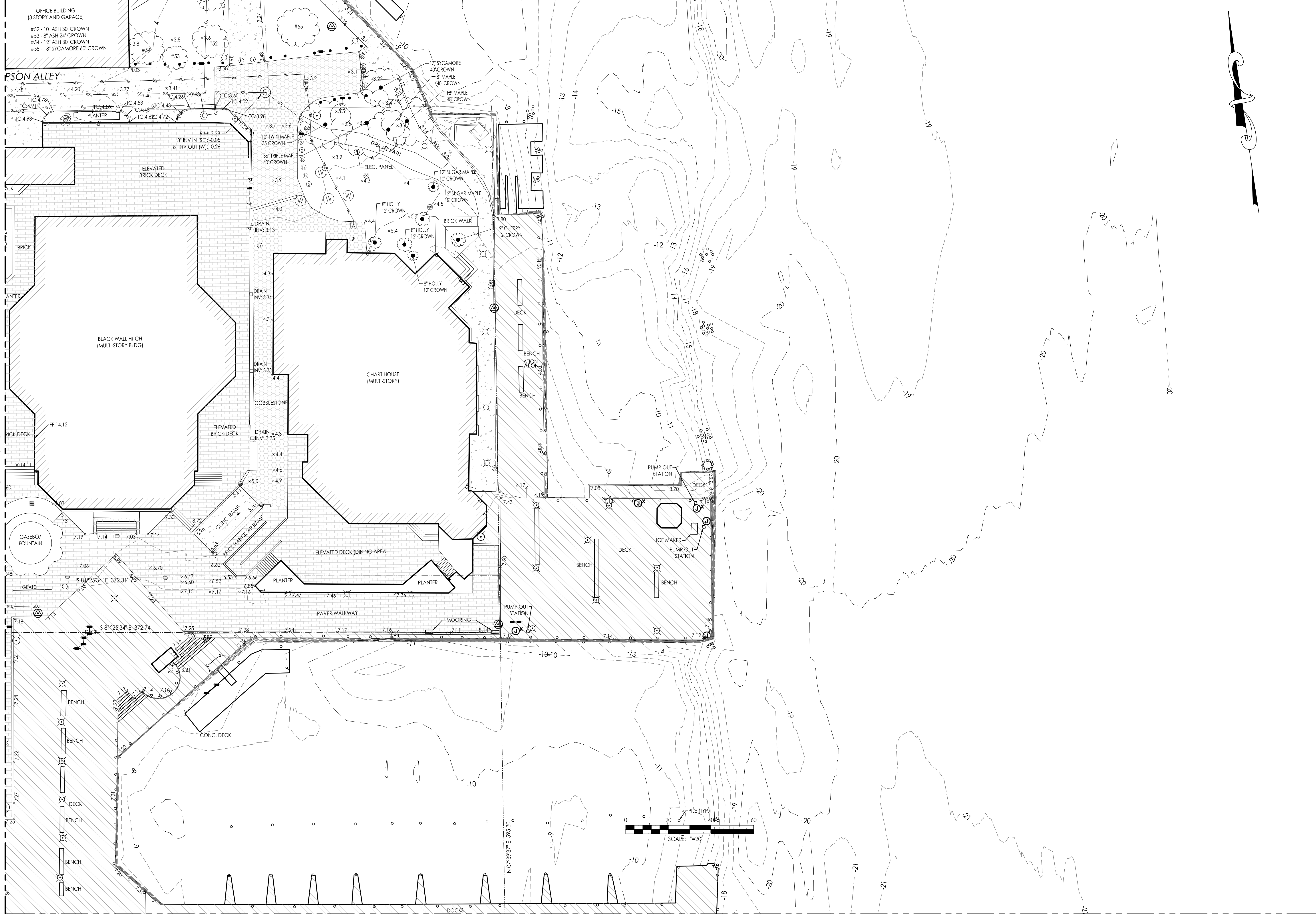
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DRAWN: JLS

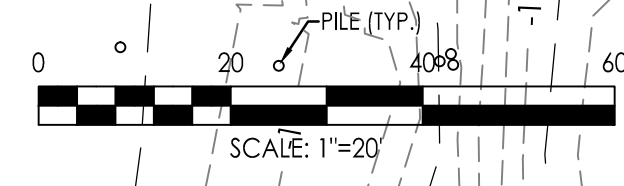
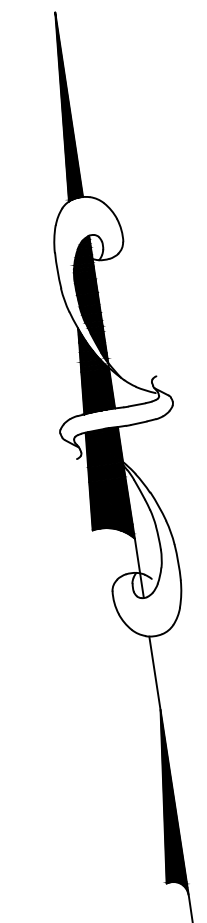
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SHEET NO: \_\_\_\_\_

MATCH LINE SEE SHEET 3

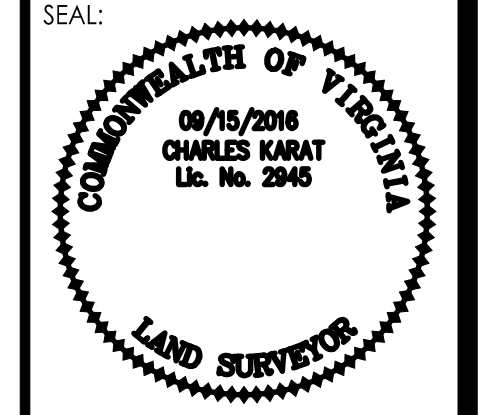


MATCH LINE SEE SHEET 7



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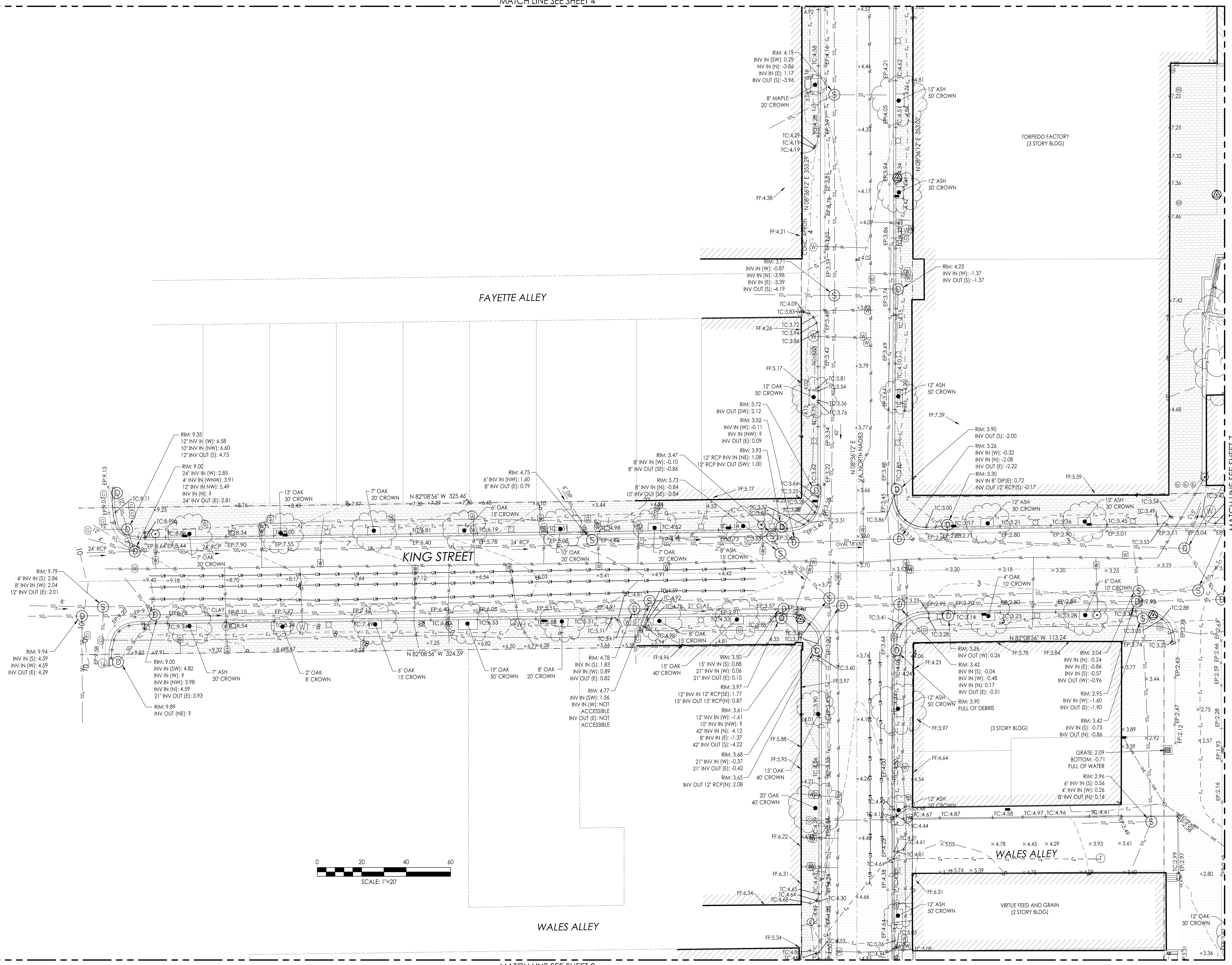
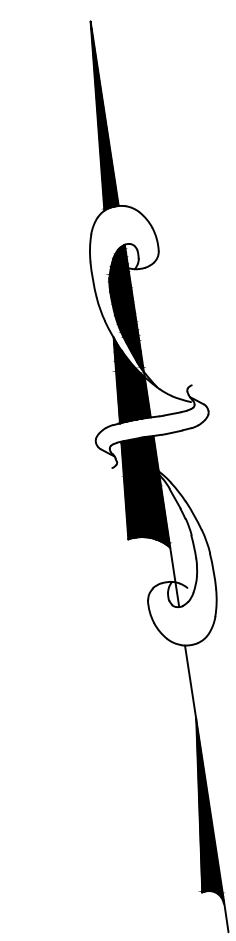
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**TOPOGRAPHIC SURVEY**  
DUKE ST. TO QUEEN ST. & UNION ST. TO POTOMAC RIVER  
HISTORICAL DISTRICT, ALEXANDRIA, VIRGINIA

REV	DATE	DESCRIPTION	DSN	CHK

AUTHORITY PLAN NO: \_\_\_\_\_

PROJECT NO: 2029041842  
SCALE: 1"=20'  
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DESIGN: JLS  
DRAWN: JLS  
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SHEET NO: 5 OF 11

MATCH LINE SEE SHEET 4



FAYETTE ALLEY

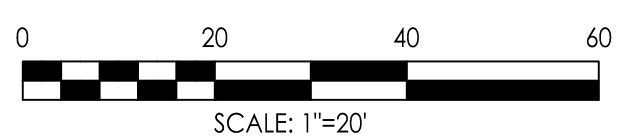
KING STREET

WALES ALLEY

TORPEDO FACTORY  
(3 STORY BLDG)

(3 STORY BLDG)

VIRTUE FEED AND GRAIN  
(2 STORY BLDG)

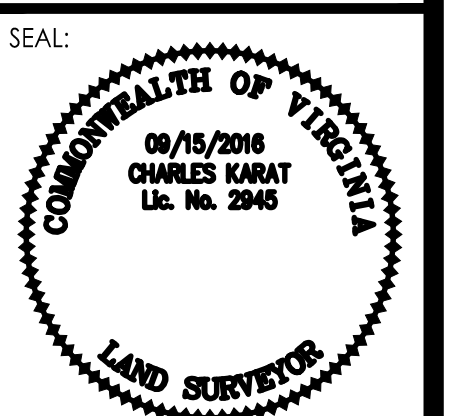


SCALE: 1"=20'

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HISTORICAL DISTRICT, ALEXANDRIA, VIRGINIA

REV	DATE	DESCRIPTION	DSN	CHK

AUTHORITY PLAN NO: \_\_\_\_\_

PROJECT NO: 2029041842

SCALE: 1"=20'

DATE: 09/12/2016

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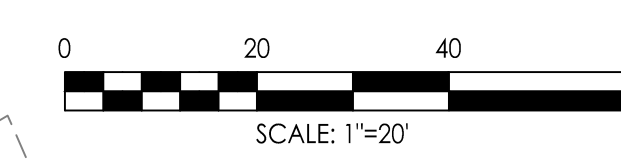
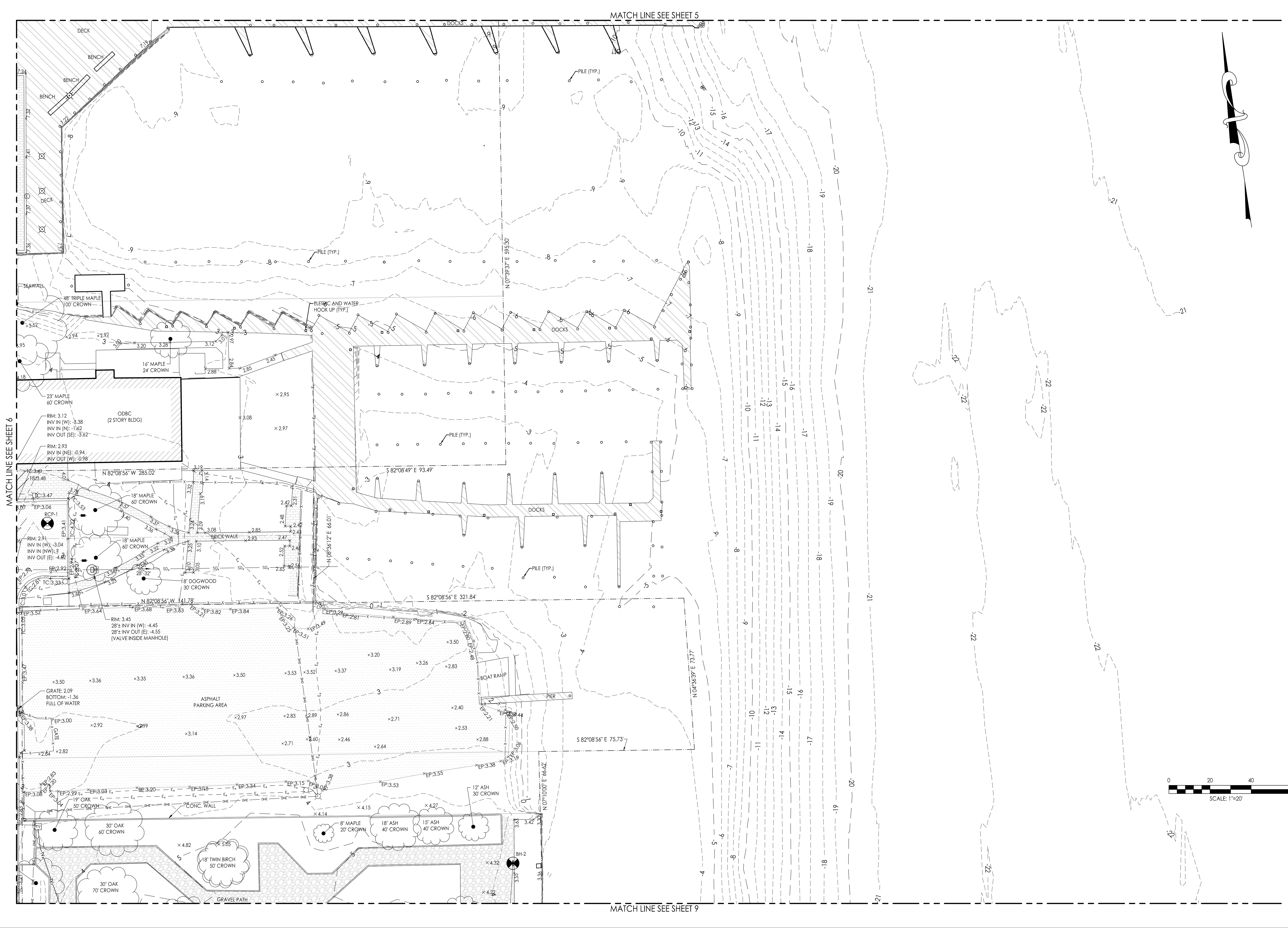
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Drawing name: Z:\Chantilly - 041842\CAD\ACTIVE\2029041842\_base\_20170903.dwg SHEET 7 Aug 03, 2017 10:58am by: jfistadler



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 08/15/2016  
 CHARLES KARAT  
 Lic. No. 2946  
**LAND SURVEYOR**

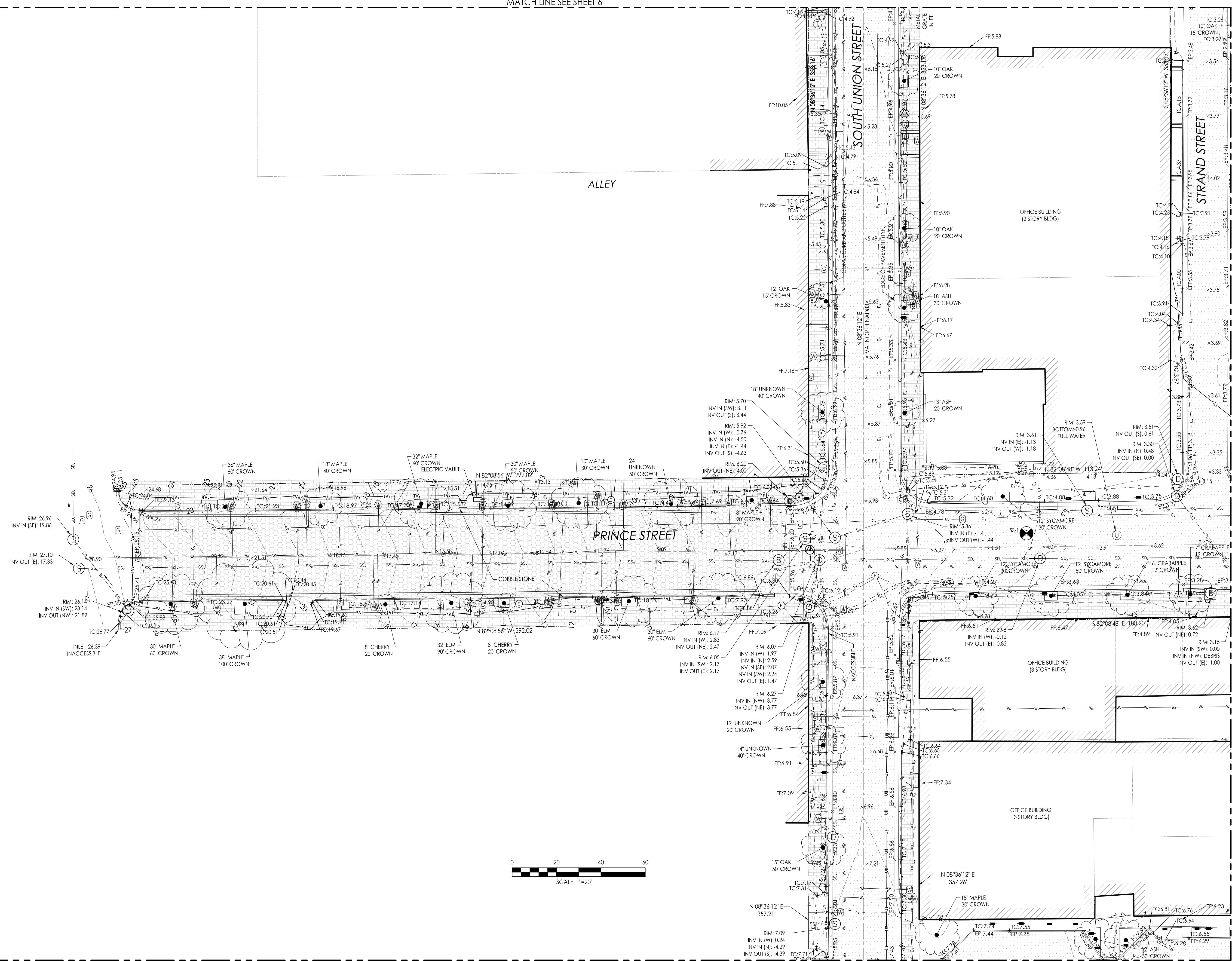
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REV	DATE	DESCRIPTION	DSN	CHK

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MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 10



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REV	DATE	DESCRIPTION	DSN	CHK
AUTHORITY PLAN NO:				
PROJECT NO: 2029041842				
SCALE: 1"=20'				
DATE: 09/12/2016				
DESIGN: JLS				
DRAWN: JLS				
CHECKED: GDG				
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8 OF 11				

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MATCH LINE SEE SHEET 7



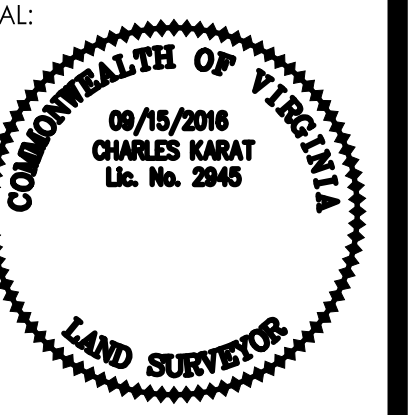
MATCH LINE SEE SHEET 8

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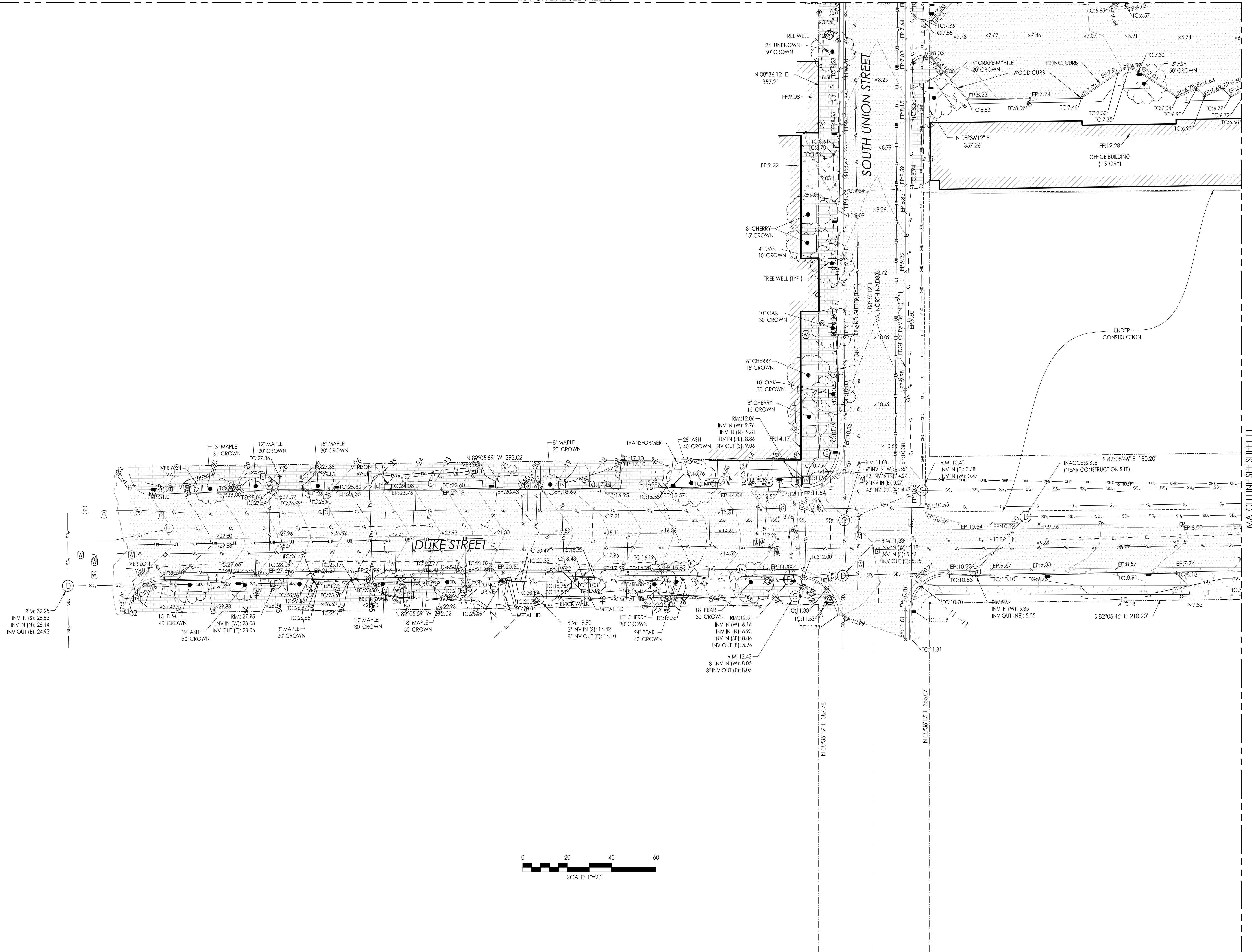
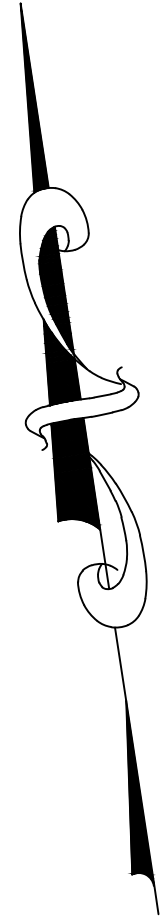
CITY OF ALEXANDRIA - WATERFRONT FLOOD  
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**TOPOGRAPHIC SURVEY**  
DUKE ST. TO QUEEN ST. &  
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REV	DATE	DESCRIPTION	DSN	CHK

AUTHORITY PLAN NO:  
PROJECT NO: 2029041842  
SCALE: 1"=20'  
DATE: 09/12/2016  
DESIGN: JLS  
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MATCH LINE SEE SHEET 8



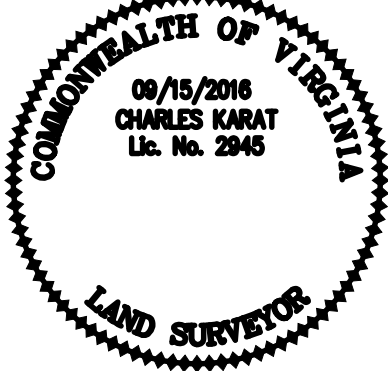
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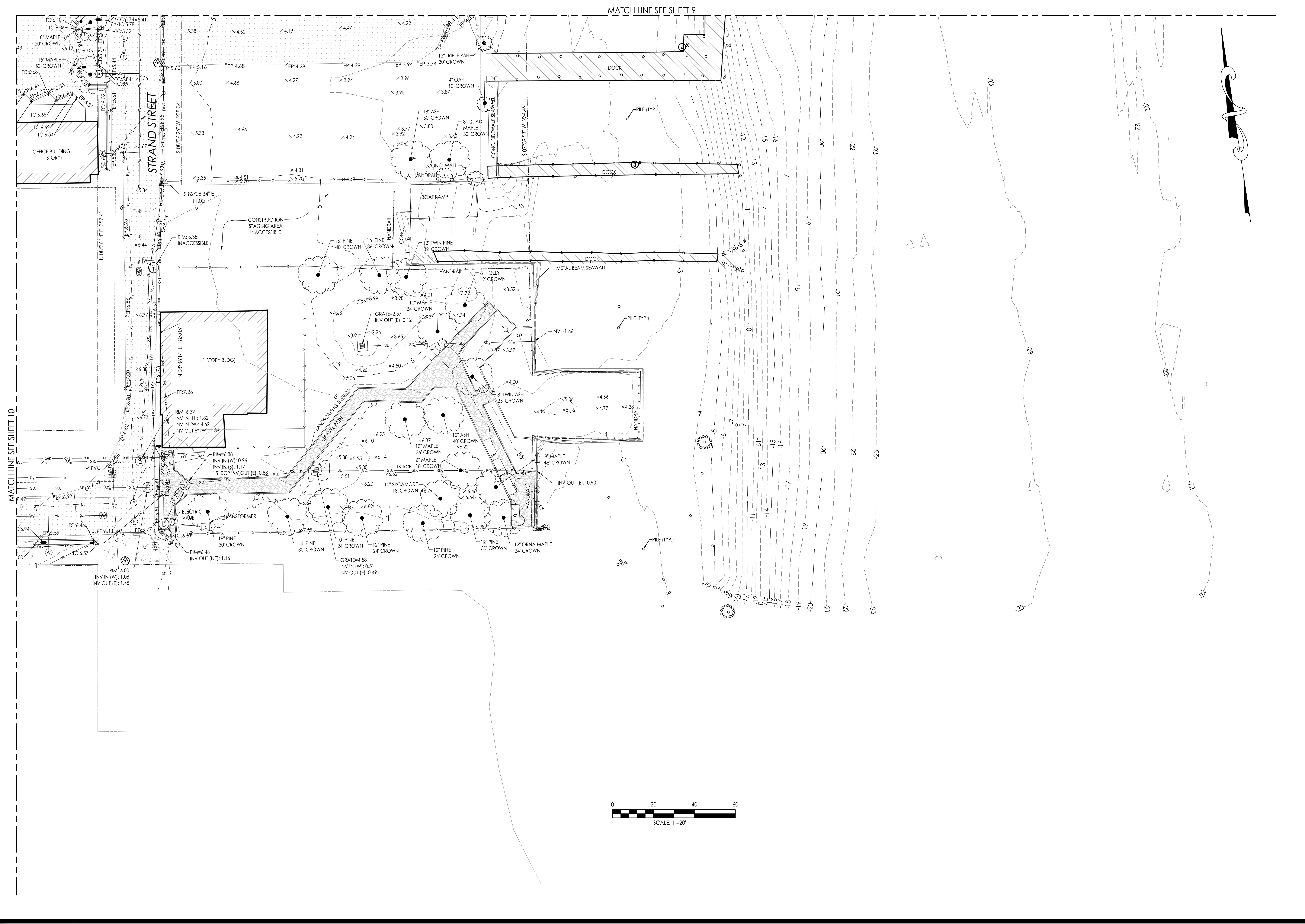
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PROJECT NO: 2029041842  
SCALE: 1"=20'  
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DESIGN: \_\_\_\_\_  
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CHECKED: GDG  
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