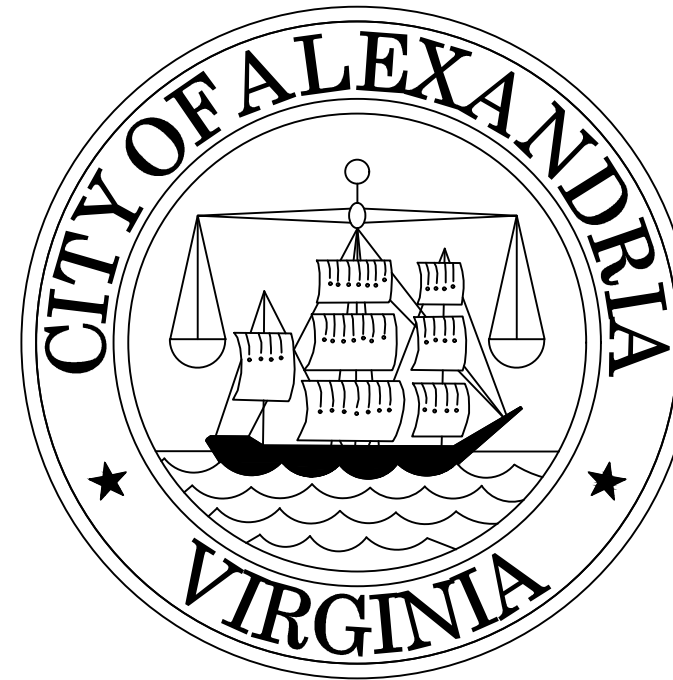
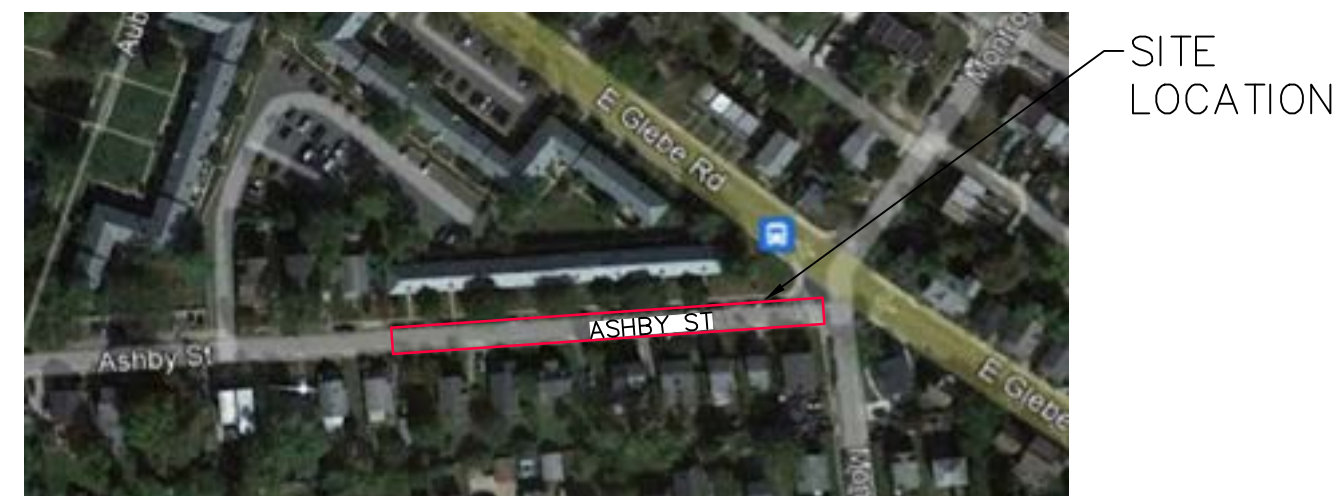


CITY OF ALEXANDRIA, VIRGINIA



SANITARY SEWER CAPACITY UPSIZING PROJECT-1

SHEET INDEX		
SHEET	NUMBER	TITLE
G-001	01	COVER SHEET
G-002	02	GENERAL NOTES, ABBREVIATIONS & LEGEND
G-003	03	EXISTING SURVEY AND TEST PIT INFORMATION
G-004	04	EXISTING SURVEY AND TEST PIT INFORMATION
C-101	05	EXISTING CONDITIONS AND DEMOLITION PLAN - ASHBY STREET
C-102	06	EXISTING CONDITIONS AND DEMOLITION PLAN - EAST ALEXANDRIA AVENUE
C-103	07	EXISTING CONDITIONS AND DEMOLITION PLAN - EAST OAK STREET
C-104	08	EXISTING CONDITIONS AND DEMOLITION PLAN - EAST MAPLE STREET
C-201	09	ASHBY STREET PLAN AND PROFILE
C-202	10	EAST ALEXANDRIA AVE PLAN AND PROFILE
C-203	11	EAST OAK STREET PLAN AND PROFILE
C-204	12	EAST MAPLE STREET PLAN AND PROFILE I
C-205	13	EAST MAPLE STREET PLAN AND PROFILE II
C-501	14	DETAILS I
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C-503	16	EROSION & SEDIMENT CONTROL NOTES AND DETAILS
C-701	17	MOT NOTES
C-702	18	MOT DETAILS
C-703	19	ASHBY STREET TRAFFIC CONTROL PLAN
C-704	20	ALEXANDRIA AVENUE TRAFFIC CONTROL PLAN PHASE I
C-705	21	ALEXANDRIA AVENUE TRAFFIC CONTROL PLAN PHASE II
C-706	22	EAST OAK STREET TRAFFIC CONTROL PLAN PHASE I
C-707	23	EAST OAK STREET TRAFFIC CONTROL PLAN PHASE II
C-708	24	EAST MAPLE STREET TRAFFIC CONTROL PLAN



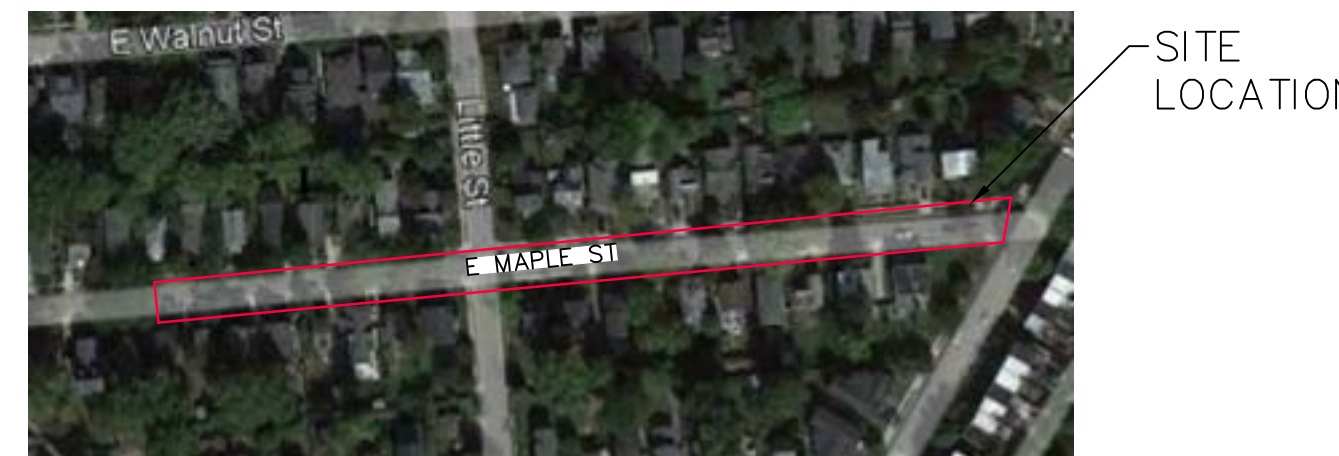
① AREA MAP - ASHBY ST
SCALE 1" = 200'
SOURCE: GOOGLE MAPS



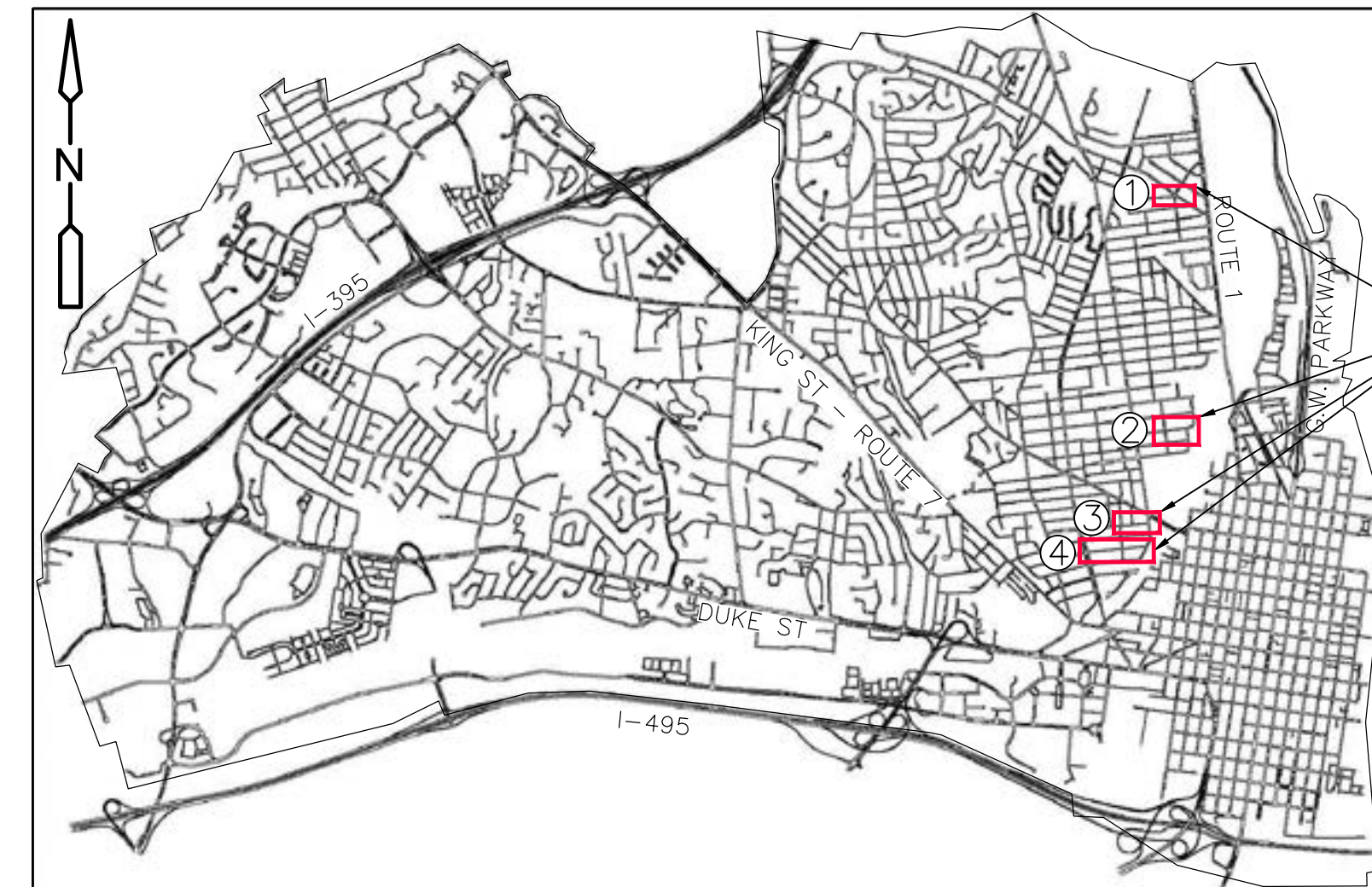
② AREA MAP - E ALEXANDRIA AVE
SCALE 1" = 200'
SOURCE: GOOGLE MAPS



③ AREA MAP - E OAK ST
SCALE 1" = 200'
SOURCE: GOOGLE MAPS



④ AREA MAP - E MAPLE ST
SCALE 1" = 200'
SOURCE: GOOGLE MAPS



VICINITY MAP
SCALE 1" = 4000'

SITE LOCATIONS

PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF THE SANITARY SEWER UPSIZING ALONG THE FOLLOWING STREETS:
A. ASHBY STREET - APPROXIMATELY 290 LINEAR FEET SAN. SEWER REPLACEMENT AND ONE NEW MANHOLE
B. EAST ALEXANDRIA AVENUE - APPROXIMATELY 475 LINEAR FEET SAN. SEWER REPLACEMENT AND ONE NEW MANHOLE
C. EAST OAK STREET - APPROXIMATELY 623 LINEAR FEET SAN. SEWER REPLACEMENT
D. EAST MAPLE STREET - APPROXIMATELY 1,067 LINEAR FEET SAN. SEWER REPLACEMENT

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES.

APPROVED
X *[Signature]* DATE: 06/28/2023
DIRECTOR

RECOMMENDED FOR APPROVAL
X *[Signature]* DATE: 06/28/2023
DEPUTY DIRECTOR OF OPERATIONS

RECOMMENDED FOR APPROVAL
X *[Signature]* DATE: 06/28/2023
DEPUTY DIRECTOR OF INFRASTRUCTURE & ENVIRONMENTAL QUALITY

RECOMMENDED FOR APPROVAL
X *[Signature]* DATE: 06/28/2023
DEPUTY DIRECTOR OF RIGHT-OF-WAY & DEVELOPMENT SERVICES

RECOMMENDED FOR APPROVAL
X *[Signature]* DATE: 06/28/2023
DEPUTY DIRECTOR OF TRANSPORTATION

DEPARTMENT OF PROJECT IMPLEMENTATION

APPROVED
X *[Signature]* DATE: 06/14/23
DIRECTOR

RECOMMENDED FOR APPROVAL
X *[Signature]* DATE: 06/14/2023
DIVISION CHIEF



KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
DIAL 811 IN VIRGINIA OR
1-800-552-7001

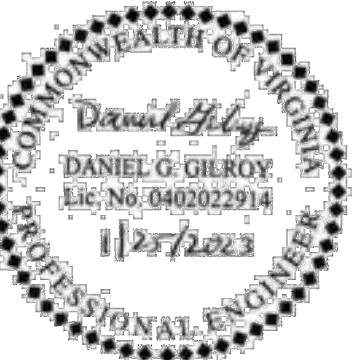
100% DESIGN



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	01-25-23
CONSULTANT PROJECT ID.:	MC_DATE01-25-23
DESIGNED BY:	JUS_DATE01-25-23
DRAWN BY:	RP_DATE01-25-23
CHECKED BY:	RP_DATE01-25-23
APPROVED BY:	DG_DATE01-25-23



COVER SHEET

G-001

SHEET
01 OF 24

SCALE
AS SHOWN

SANITARY SEWER CAPACITY UPSIZING PROJECT - 1

C:\pwwork\saaj\d3715079\COVER SHEET.dwg PLOTTED: 5/24/2023 3:38:27 PM BY SOSA, JAVIER

ASHBY STREET

STORM STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: ST1* through ST11.

SANITARY SEWER STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: SS1* through SS3.

NOTE: THE * SYMBOL DENOTES INVERT MEASURE DOWNS PER COA PROJECT 07-08-02

EAST ALEXANDRIA AVENUE

STORM STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: ST1 through ST11.

SEWER STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: SS1 through SS2.

EAST OAK STREET

EAST OAK STREET STORM STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: ST1 through ST14.

EAST OAK STREET SANITARY SEWER STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: SS1 through SS5.

EAST MAPLE STREET

EAST MAPLE STREET STORM STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: ST1 through ST5.

EAST MAPLE STREET SANITARY SEWER STRUCTURE AS-BUILT TABLE. Columns: STRUCTURE #, GIS FACILITY ID, NORTHING, EASTING, RIM ELEV., PIPE INFO., INV. IN, PIPE INFO., INV. IN, PIPE INFO., INV. OUT. Rows: SS7 through SS6.

*AS-BUILT INFORMATION FROM PREVIOUS SURVEY: S:\CAD\SURVEY\2007\MAPLEE\MAPLEE.DWG

TEST PIT TABLE. Columns: Test Pit No., Northing, Easting, Utility Requested, Utility Found, Utility Size, Utility Material, Elevation at Ground Level (ft), Depth to Top of Utility (ft), Top of Utility Elevation (ft). Rows: 1 through 1*.

Note: Test pit indicated with * is from the additional East Maple Street segment.

NOTE: 1. RIM AND INVERT ELEVATIONS SHOWN IN AS-BUILT TABLES ARE GIVEN IN FEET. 2. SURVEY DATA FROM DECEMBER 2021.

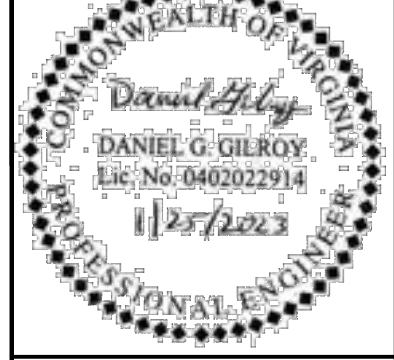
SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS table with columns: REVISIONS, DESCRIPTION, DATE, BY

ALEXANDRIA PROJECT NO.: 2104012
DATE OF PLAN ISSUANCE:
CONSULTANT PROJECT ID:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:



EXISTING SURVEY AND TEST PIT INFORMATION

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EAST MAPLE STREET (ADDITIONAL SURVEY DATA)

STORM STRUCTURE AS-BUILT TABLE													
STRUCTURE #	TYPE	NORTHING	EASTING	TOP ELEV.	PIPE INFO.	INV. IN	PIPE INFO.	INV. IN	PIPE INFO.	INV. IN	PIPE INFO.	INV. OUT	
1	STORM MANHOLE	6981810.2700	11894178.5400	19.12	13.65 (INV. AT C/L) (RECESSED PIPES)								
2	CURB INLET	6981942.3880	11894221.4820	20.32							12" RCP	17.72	
3	STORM MANHOLE	6982034.0780	11894316.0470	21.41	14.41 (INV. AT C/L) (UNABLE TO VISUALLY CONFIRM SIZE OR MAT., LID BLOCKED BY WALL)								

SANITARY SEWER STRUCTURE AS-BUILT TABLE													
STRUCTURE #	GIS FACILITY ID	NORTHING	EASTING	RIM ELEV.	PIPE INFO.	INV. IN	PIPE INFO.	INV. IN	PIPE INFO.	INV. IN	PIPE INFO.	INV. OUT	
A	006920SSMH	6981882.6080	11893885.4140	18.62	10" PVC (B)	12.58						10" PVC (SS2)	12.6
B	006917SSMH	6981913.0970	11894191.1970	19.76	18" PVC (C)	13.91						10" PVC (A)	13.86
C	006913SSMH	6981942.899	11894250.36	20.12	14.15 (INV. AT C/L) (RECESSED PIPE)								
D	006947SSMH	6982058.483	11894311.58	21.21								15" RCP (C) (RECESSED PIPE)	14.61
E	006912SSMH	6982016.651	11894306.12	21.14	10" RCP (FROM GIS)	16.64						10" RCP (F)	16.61
F	006914SSMH	6981915.951	11894250.88	20.28	10" PVC (E)	16.08						10" RCP (G)	16.06
G	006919SSMH	6981781.939	11894180.42	19.46	10" RCP (F)	15.29						10" RCP (FROM GIS)	15.23
H	006916SSMH	6981918.062	11894224.61	20.05	CANNOT REMOVE DUST COVER TO ACCESS								
I	006915SSMH	6981918.022	118994236.5	20	CANNOT REMOVE DUST COVER TO ACCESS								

- NOTES:
 1. TOP AND INVERT ELEVATIONS ARE GIVEN IN FEET.
 2. SURVEY DATA FROM OCTOBER 2022.

SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22314

REVISIONS	
DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	MC DATE 01-25-23
DRAWN BY:	JUS DATE 01-25-23
CHECKED BY:	RP DATE 01-25-23
APPROVED BY:	DG DATE 01-25-23

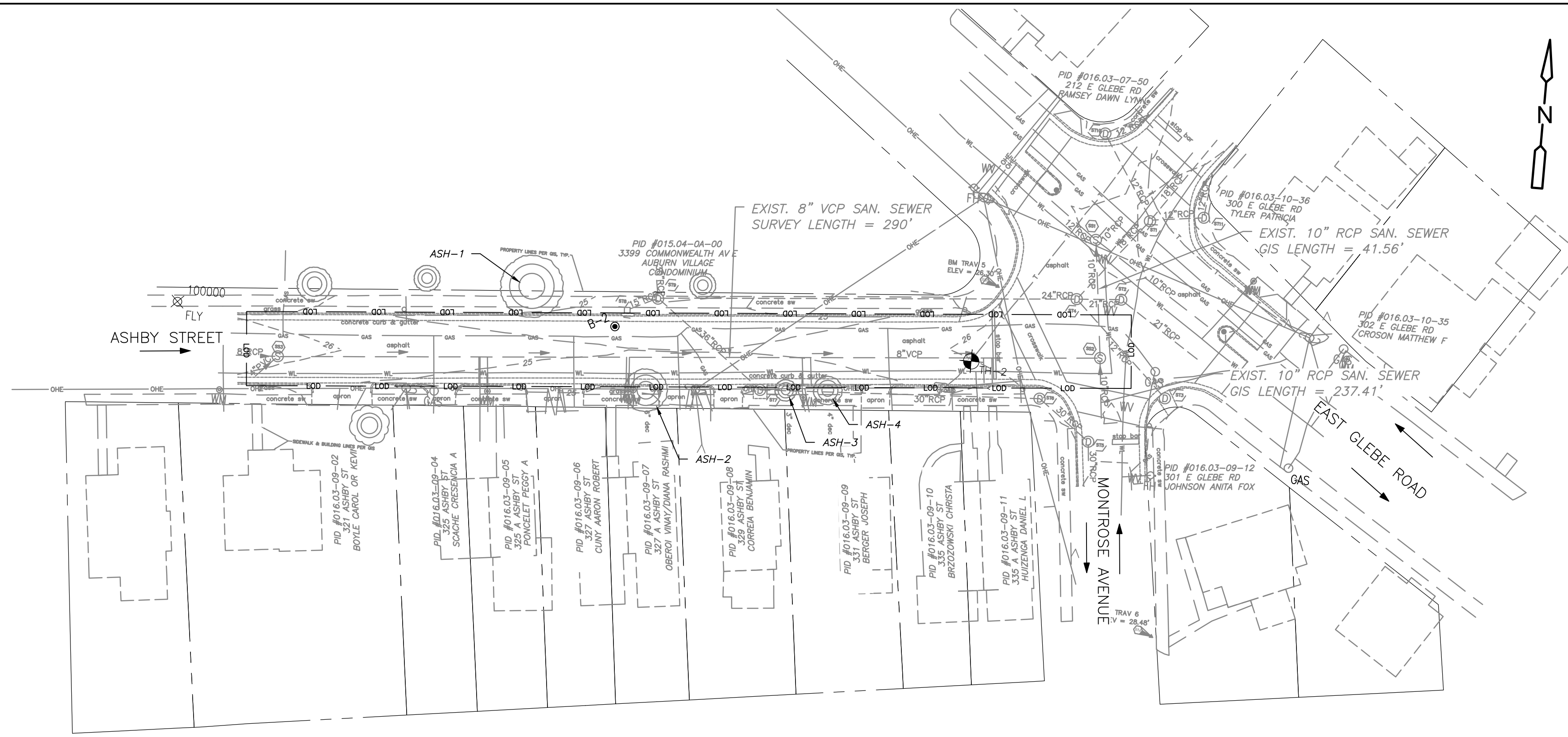


EXISTING SURVEY AND TEST PIT INFORMATION

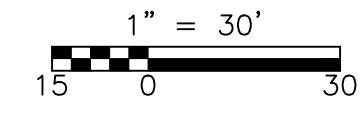
G-004

SHEET
04 OF 24
 SCALE
 NONE

SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 5	26.30	6989855.6590	11894807.5400
TRAV 6	28.48	6989737.3760	11894872.2000



PLAN
1" = 30'



NOTES:

- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.

SURVEY NOTES:

- HORIZONTAL DATUM FOR PROJECT CONTROL IS BASED UPON VA. COORDINATE SYSTEM OF 1983 (MYCS2), AND WAS ESTABLISHED BY THE CITY OF ALEXANDRIA PER RTK GPS OBSERVATION ON 03/16/21.
- VERTICAL DATUM FOR PROJECT CONTROL IS BASED UPON NAVD 88/GEOD 18, AND WAS ESTABLISHED BY THE CITY OF ALEXANDRIA PER RTK GPS OBSERVATION ON 03/16/2021.
- PORTION OF THE SUBSURFACE UTILITY DESIGNATION (NOT INCLUDING STORM AND SANITARY SEWER) WAS PERFORMED BY VA 811 AND THEIR ASSIGNS APRIL 2021. TICKET NUMBER IS A108500531-00A AND PORTIONS HAVE BEEN DESIGNATED AND LOCATED BY PRECISION MEASUREMENTS, INC. THE DESIGNATION CONFORMS TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA 9C/ASCE 38-02 FOR QUALITY LEVEL QL A/B/C/D.
 - UTILITY NOTES:
 - STORM AND SANITARY SEWER MANHOLES WERE FIELD SURVEYED BY CITY OF ALEXANDRIA SURVEY SECTION IN APRIL 2021 AND FIELD VERIFIED BY PRECISION MEASUREMENTS, INC. ON DECEMBER 2021. STORM AND SANITARY SEWER PIPES ARE DEPICTED AT "QUALITY LEVEL C".
 - ALL OTHER SUBSURFACE UTILITIES ARE DEPICTED PER PAINT MARKS FROM 811 POSITIVE RESPONSE TICKET, UNLESS OTHERWISE NOTED HEREON.
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- THE FOLLOWING NOTES PERTAIN TO INFORMATION SHOWN PER CITY OF ALEXANDRIA GIS: PURSUANT TO SECTION 54.1-402 OF THE CODE OF VIRGINIA, ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR THE DESIGN, MODIFICATION OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FOR FLOOD PLAIN DETERMINATION. THE MAPS PROVIDED HEREUNDER ARE PROVIDED "AS IS" AND THE CITY EXPRESSLY DISCLAIMS ALL WARRANTIES, UCC AND OTHERWISE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES AS TO ACCURACY OF THE MAPS AND MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND FURTHER EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ALL INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE MAPS.

TREE TABLE

TREE NO.	SIZE (IN.)	TYPE
ASH-1*	-	-
ASH-2*	6	DEC
ASH-3	3	DEC
ASH-4	4	DEC

TREE NOTES:

- A LIST OF TREES WITHIN THE LOD IS PROVIDED ABOVE.
- NOT ALL TREES MAY BE IMPACTED DURING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALEXANDRIA WHERE TREE TRIMMING IS REQUIRED.

* - THIS TREE MAY BE IMPACTED DURING CONSTRUCTION DEPENDING ON CONSTRUCTION TECHNOLOGY, TOOLS, AND METHODOLOGY USED

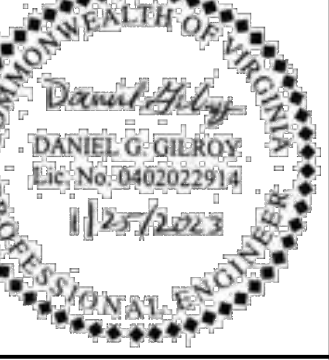
SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	MC DATE 01-25-23
DRAWN BY:	JUS DATE 01-25-23
CHECKED BY:	RP DATE 01-25-23
APPROVED BY:	DG DATE 01-25-23

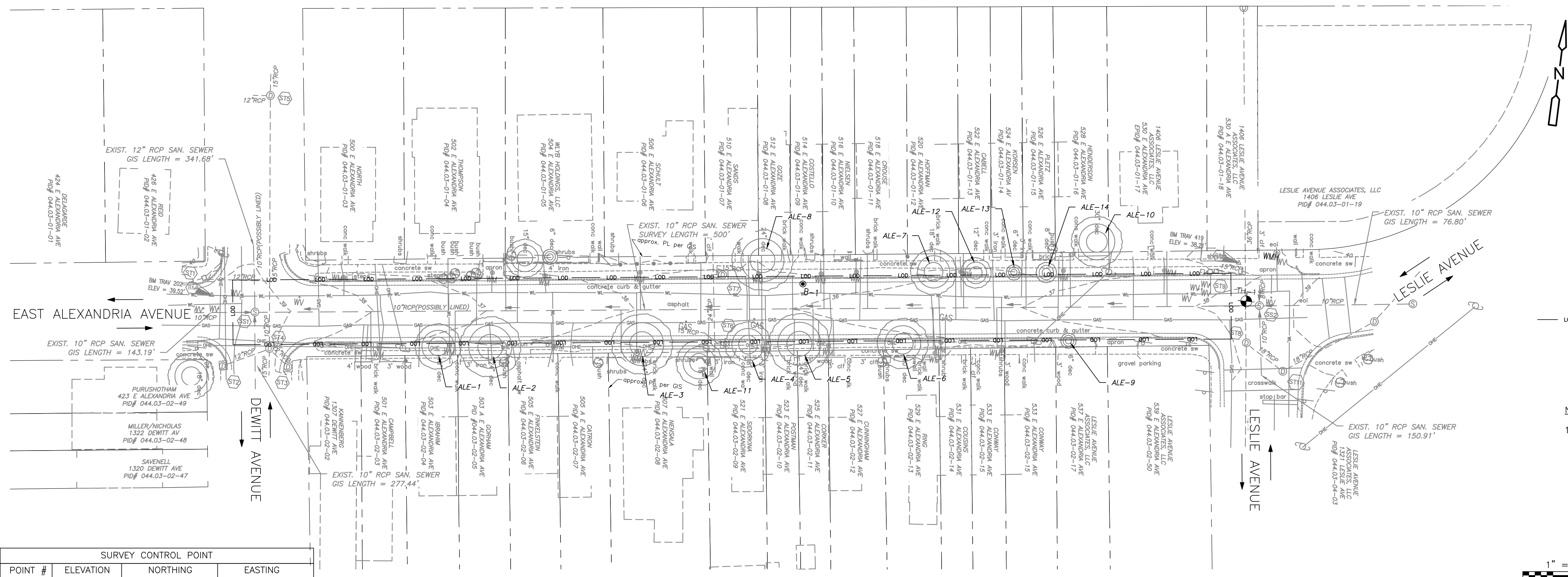


EXISTING CONDITIONS AND DEMOLITION PLAN
ASHBY STREET

C-101

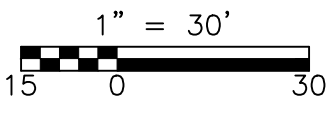
SHEET
05 OF **24**
SCALE
AS SHOWN

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SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 202	39.52	6984520.1520	11894605.4400
TRAV 419	38.21	6984600.9940	11895110.6200

PLAN
1" = 30'



NOTES:

- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.

TREE TABLE

TREE NO.	SIZE (IN.)	TYPE
ALE-1*	18	DEC
ALE-2	24	DEC
ALE-3*	24	DEC
ALE-4	18	DEC
ALE-5	24	DEC
ALE-6*	30	DEC
ALE-7*	18	DEC
ALE-8*	24	DEC
ALE-9	6	DEC
ALE-10*	30	DEC
ALE-11	18	DEC
ALE-12*	12	DEC
ALE-13	6	DEC
ALE-14	8	DEC

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SURVEY NOTES:

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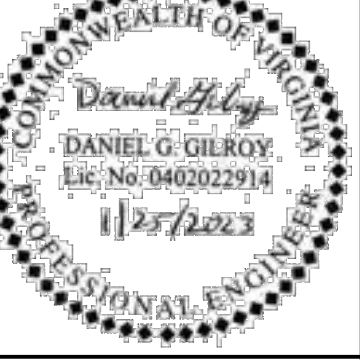
SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	2104012
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APPROVED BY:	DG DATE 01-25-23



**EXISTING CONDITIONS
AND DEMOLITION PLAN
EAST ALEXANDRIA
AVENUE**

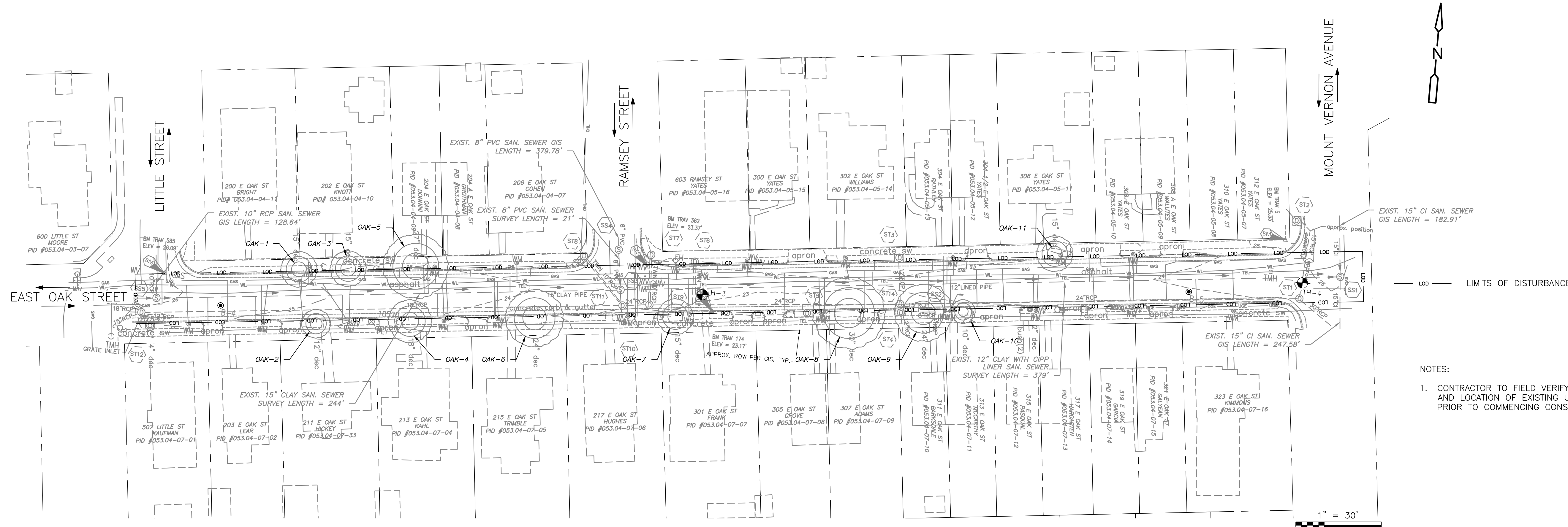
C-102

SHEET
06 OF 24
SCALE
AS SHOWN

100% DESIGN

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PLAN
1" = 30'

SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 585	26.09	6982382.9290	11893654.8300
TRAV 362	23.37	6982408.5990	11893907.8700
TRAV 174	23.17	6982388.1310	11893943.4600
TRAV 5	25.33	6982451.8730	11894240.7700

SURVEY NOTES:

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3.1. UTILITY NOTES:

 - STORM AND SANITARY SEWER MANHOLES WERE FIELD SURVEYED BY CITY OF ALEXANDRIA SURVEY SECTION IN APRIL 2021 AND FIELD VERIFIED BY PRECISION MEASUREMENTS, INC. ON DECEMBER 2021. STORM AND SANITARY SEWER PIPES ARE DEPICTED AT "QUALITY LEVEL C".
 - ALL OTHER SUBSURFACE UTILITIES ARE DEPICTED PER PAINT MARKS FROM 811 POSITIVE RESPONSE TICKET, UNLESS OTHERWISE NOTED HEREON.
- EXISTING STRIPING/TRAFFIC PAINT IS NOT SHOWN ON THIS SURVEY.
- TOPOGRAPHIC SURVEY FROM FACE OF CURB TO FACE OF CURB WAS OBTAINED BY THE CITY OF ALEXANDRIA. OUTSIDE OF THESE LIMITS WAS OBTAINED BY PRECISION MEASUREMENTS, INC.
- THE FOLLOWING NOTES PERTAIN TO INFORMATION SHOWN PER CITY OF ALEXANDRIA GIS: PURSUANT TO SECTION 54.1-402 OF THE CODE OF VIRGINIA, ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR THE DESIGN, MODIFICATION OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FOR FLOOD PLAIN DETERMINATION. THE MAPS PROVIDED HEREUNDER ARE PROVIDED "AS IS" AND THE CITY EXPRESSLY DISCLAIMS ALL WARRANTIES, UCC AND OTHERWISE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES AS TO ACCURACY OF THE MAPS AND MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND FURTHER EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ALL INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE MAPS.

NOTES:

- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.

TREE TABLE

TREE NO.	SIZE (IN.)	TYPE
OAK-1*	15	DEC
OAK-2*	12	DEC
OAK-3*	15	DEC
OAK-4*	18	DEC
OAK-5*	27	DEC
OAK-6*	24	DEC
OAK-7*	15	DEC
OAK-8*	30	DEC
OAK-9*	24	DEC
OAK-10*	10	DEC
OAK-11*	15	DEC

TREE NOTES:

- A LIST OF TREES WITHIN THE LOD IS PROVIDED ABOVE.
- NOT ALL TREES MAY BE IMPACTED DURING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALEXANDRIA WHERE TREE TRIMMING IS REQUIRED.

* - THIS TREE MAY BE IMPACTED DURING CONSTRUCTION DEPENDING ON CONSTRUCTION TECHNOLOGY, TOOLS, AND METHODOLOGY USED

100% DESIGN

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 2104012
DATE OF PLAN ISSUANCE: _____
CONSULTANT PROJECT ID: _____
DESIGNED BY: MC DATE 01-25-23
DRAWN BY: JUS DATE 01-25-23
CHECKED BY: RP DATE 01-25-23
APPROVED BY: DG DATE 01-25-23

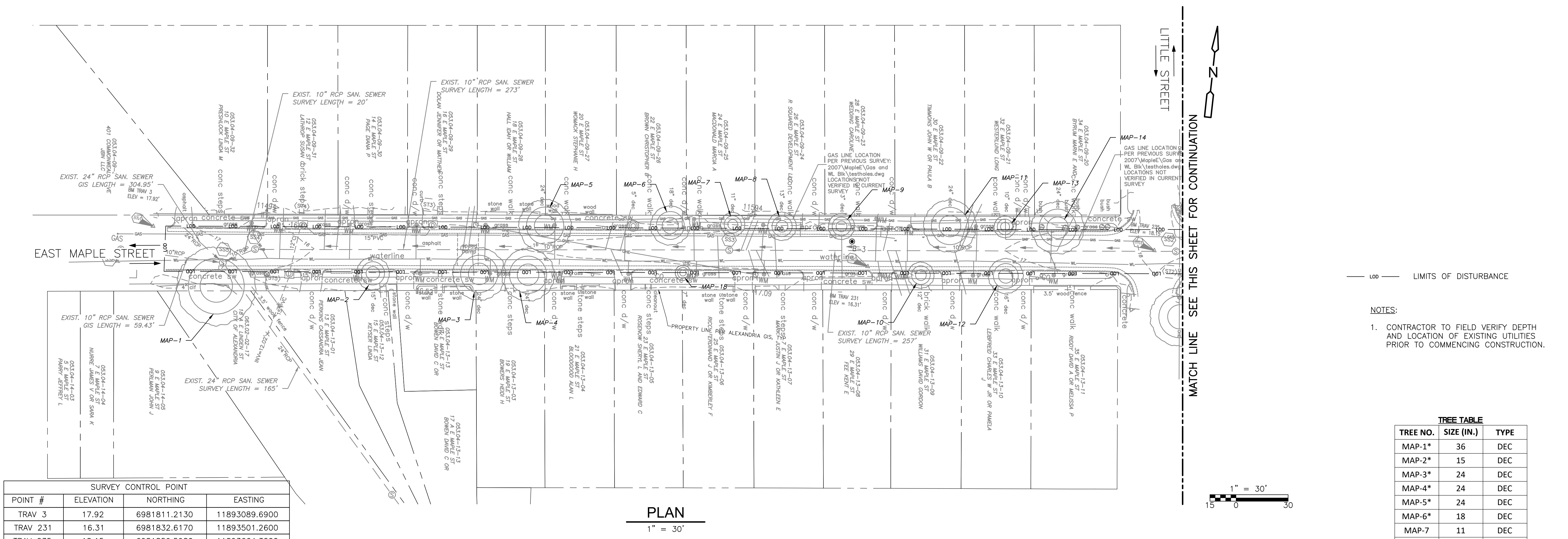
PROFESSIONAL ENGINEER
DANIEL G. GILROY
Lic. No. 040202914
1/25/2023

**EXISTING CONDITIONS AND DEMOLITION PLAN
EAST OAK STREET**

C-103

SHEET
07 OF 24
SCALE
AS SHOWN

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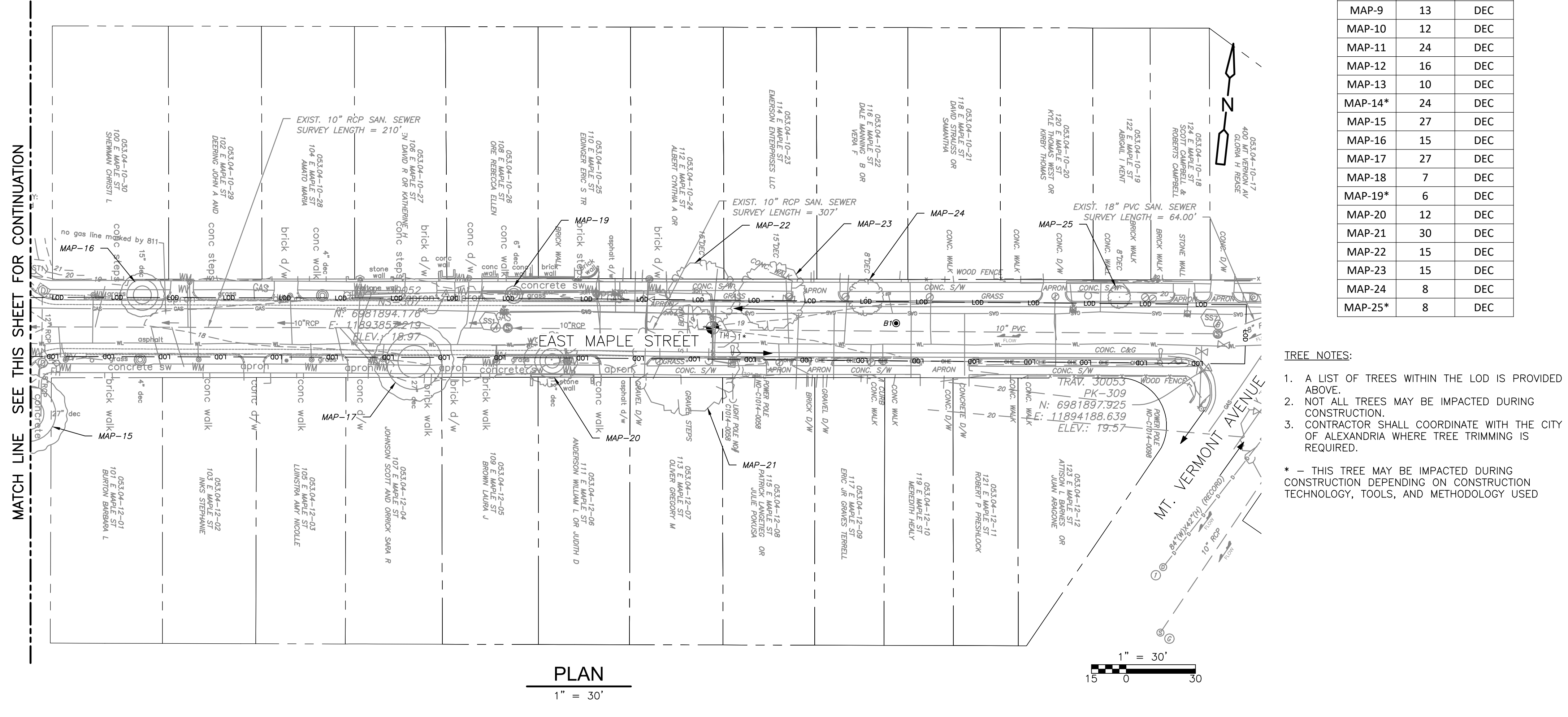
SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 3	17.92	6981811.2130	11893089.6900
TRAV 231	16.31	6981832.6170	11893501.2600
TRAV 235	18.15	6981859.5980	11893664.3200
TRAV 30052	18.97	6981894.1760	11893857.2190
TRAV 30053	19.57	6981897.6390	11894188.6390

SURVEY NOTES:

- HORIZONTAL DATUM FOR PROJECT CONTROL IS BASED UPON VA. COORDINATE SYSTEM OF 1983 (MYCS2), AND WAS ESTABLISHED BY THE CITY OF ALEXANDRIA PER RTK GPS OBSERVATION ON 04/06/21.
- VERTICAL DATUM FOR PROJECT CONTROL IS BASED UPON NAVD 88/GEOD 18, AND WAS ESTABLISHED BY THE CITY OF ALEXANDRIA PER RTK GPS OBSERVATION ON 04/06/2021.
- PORTION OF THE SUBSURFACE UTILITY DESIGNATION (NOT INCLUDING STORM AND SANITARY SEWER) WAS PERFORMED BY VA 811 AND THEIR ASSIGNS APRIL 2021. TICKET NUMBER IS A108500531-00A AND PORTIONS HAVE BEEN DESIGNATED AND LOCATED BY PRECISION MEASUREMENTS, INC. THE DESIGNATION CONFORMS TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS ASCE STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA 9C/ASCE 38-02 FOR QUALITY LEVEL Q/L A/B/C/D.
 - STORM AND SANITARY SEWER MANHOLES WERE FIELD SURVEYED BY CITY OF ALEXANDRIA SURVEY SECTION IN APRIL 2021 AND FIELD VERIFIED BY PRECISION MEASUREMENTS, INC. ON DECEMBER 2021. STORM AND SANITARY SEWER PIPES ARE DEPICTED AT "QUALITY LEVEL C".
 - ALL OTHER SUBSURFACE UTILITIES ARE DEPICTED PER PAINT MARKS FROM 811 POSITIVE RESPONSE TICKET, UNLESS OTHERWISE NOTED HEREON.
- EXISTING STRIPING/TRAFFIC PAINT IS NOT SHOWN ON THIS SURVEY.
- TOPOGRAPHIC SURVEY FROM FACE OF CURB TO FACE OF CURB WAS OBTAINED BY THE CITY OF ALEXANDRIA. OUTSIDE OF THESE LIMITS WAS OBTAINED BY PRECISION MEASUREMENTS, INC. THE FOLLOWING NOTES PERTAIN TO INFORMATION SHOWN PER CITY OF ALEXANDRIA GIS:
 - PURSUANT TO SECTION 54.1-402 OF THE CODE OF VIRGINIA, ANY DETERMINATION OF TOPOGRAPHY OR CONTOURS, OR ANY DEPICTION OF PHYSICAL IMPROVEMENTS, PROPERTY LINES OR BOUNDARIES IS FOR GENERAL INFORMATION ONLY AND SHALL NOT BE USED FOR THE DESIGN, MODIFICATION OR CONSTRUCTION OF IMPROVEMENTS TO REAL PROPERTY OR FOR FLOOD PLAIN DETERMINATION.
 - THE MAPS PROVIDED HEREUNDER ARE PROVIDED "AS IS" AND THE CITY EXPRESSLY DISCLAIMS ALL WARRANTIES, UCC AND OTHERWISE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES AS TO ACCURACY OF THE MAPS AND MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND FURTHER EXPRESSLY DISCLAIMS RESPONSIBILITY FOR ALL INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE MAPS.

SURVEY NOTES (SANITARY SEWER FROM MANHOLES A TO B DATED OCTOBER 21, 2022):

- THE MERIDIAN SOURCE OF THIS TOPOGRAPHIC SURVEY IS BASED ON THE VIRGINIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983 (2011). THE PROJECT MERIDIAN WAS ESTABLISHED USING GPS METHODS.
- ELEVATIONS REFER TO NAVD 1988 (GEOD18) AND WERE ESTABLISHED USING GPS METHODS.
- THIS SURVEY WAS PREPARED TO SHOW EXISTING FEATURES AS OF SEPTEMBER 21, 2022 AND DOES NOT CERTIFY TO CHANGES TO SITE CONDITIONS WHICH OCCUR SUBSEQUENT TO THIS DATE AND OR TO PROPOSED IMPROVEMENTS.
- THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY NOR A SUBDIVISION OF LAND.
- THE PARCEL/BOUNDARY LINES SHOWN HEREON WERE TAKEN FROM THE CITY OF ALEXANDRIA GIS DEPARTMENT DATABASE.
- THIS SURVEY DOES NOT INTEND TO DEPICT ANY WETLANDS, HAZARDOUS WASTE AND ENVIRONMENTAL FEATURES THAT MAY AFFECT SAID PROPERTY SHOWN HEREON EXCEPT AS SHOWN.
- PIPE MATERIAL TYPES ARE DETERMINED BY FIELD OBSERVATIONS TO THE BEST OF OUR ABILITY. PMI DOES NOT WARRANT THE MATERIAL TYPE OF PIPES LOCATED IN CONFINED OR INACCESSIBLE SPACES.
- THE TOPOGRAPHY AND PHYSICAL FEATURES SHOWN ON THIS MAP WERE OBTAINED UNDER THE DIRECT AND RESPONSIBLE CHARGE AND SUPERVISION OF ROBERTO TORRES, L.S. THIS PLAN, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- THE UNDERGROUND UTILITIES SHOWN HAVE BEEN DESIGNATED BY PMI, INC. SEE GENERAL UTILITY NOTES.



TREE TABLE

TREE NO.	SIZE (IN.)	TYPE
MAP-1*	36	DEC
MAP-2*	15	DEC
MAP-3*	24	DEC
MAP-4*	24	DEC
MAP-5*	24	DEC
MAP-6*	18	DEC
MAP-7	11	DEC
MAP-8	13	DEC
MAP-9	13	DEC
MAP-10	12	DEC
MAP-11	24	DEC
MAP-12	16	DEC
MAP-13	10	DEC
MAP-14*	24	DEC
MAP-15	27	DEC
MAP-16	15	DEC
MAP-17	27	DEC
MAP-18	7	DEC
MAP-19*	6	DEC
MAP-20	12	DEC
MAP-21	30	DEC
MAP-22	15	DEC
MAP-23	15	DEC
MAP-24	8	DEC
MAP-25*	8	DEC

TREE NOTES:

- A LIST OF TREES WITHIN THE LOD IS PROVIDED ABOVE.
- NOT ALL TREES MAY BE IMPACTED DURING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALEXANDRIA WHERE TREE TRIMMING IS REQUIRED.

* - THIS TREE MAY BE IMPACTED DURING CONSTRUCTION DEPENDING ON CONSTRUCTION TECHNOLOGY, TOOLS, AND METHODOLOGY USED

100% DESIGN

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 2104012
 DATE OF PLAN ISSUANCE: _____
 CONSULTANT PROJECT ID: _____
 DESIGNED BY: MC DATE 01-25-23
 DRAWN BY: JUS DATE 01-25-23
 CHECKED BY: RP DATE 01-25-23
 APPROVED BY: DG DATE 01-25-23

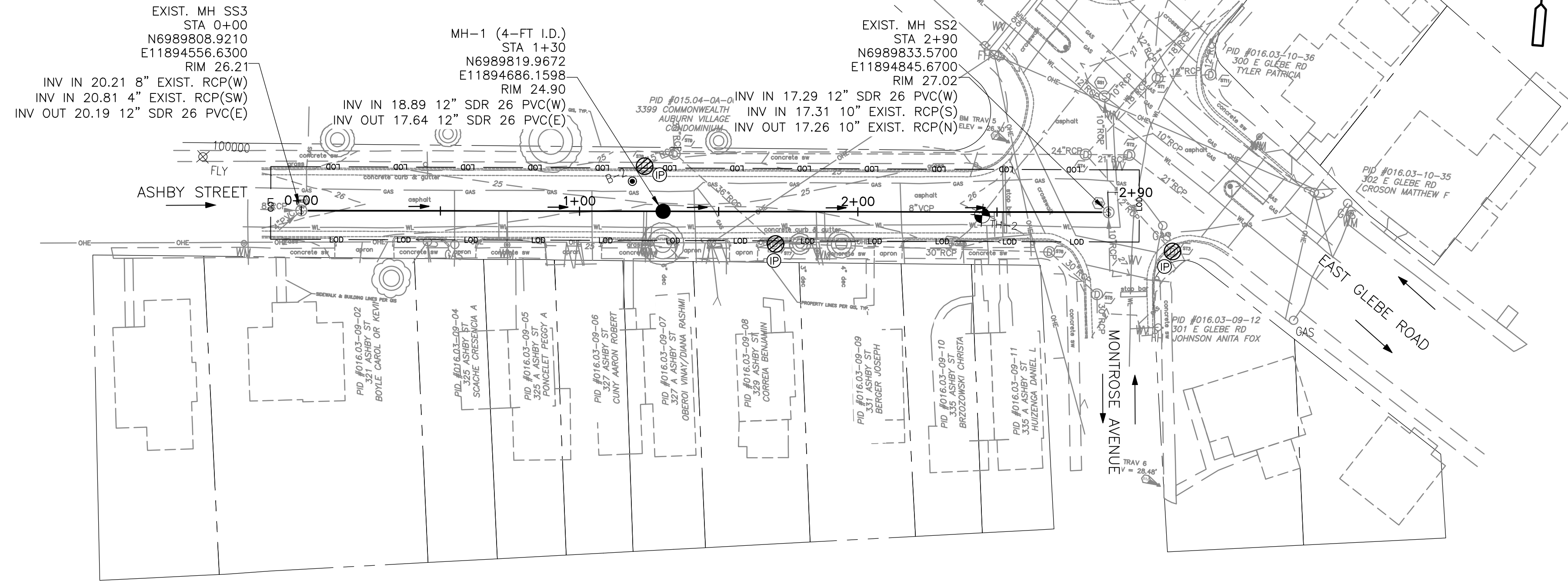
EXISTING CONDITIONS AND DEMOLITION PLAN
EAST MAPLE STREET

C-104

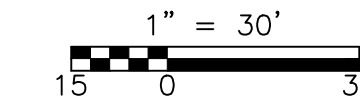
SHEET
08 OF 24
SCALE
AS SHOWN

SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 5	26.30	6989855.6590	11894807.5400
TRAV 6	28.48	6989737.3760	11894872.2000

SANITARY SEWER LATERALS FROM PACP REPORTS	
STATION	LOCATION
0+71	RIGHT
0+74	RIGHT
1+23	RIGHT
1+24	RIGHT
1+85	RIGHT
1+88	RIGHT
2+49	RIGHT
2+52	RIGHT



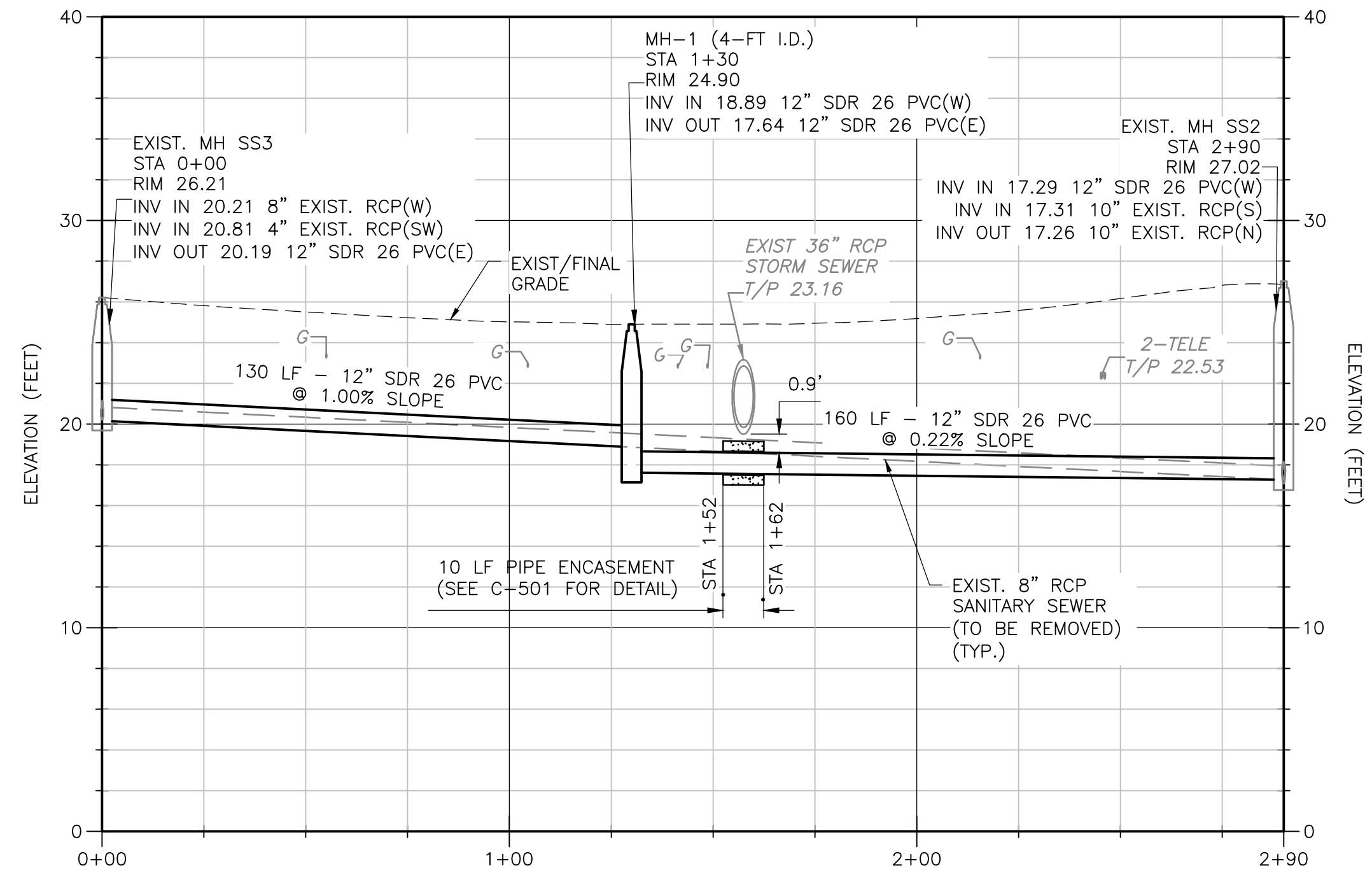
PLAN
1" = 30'



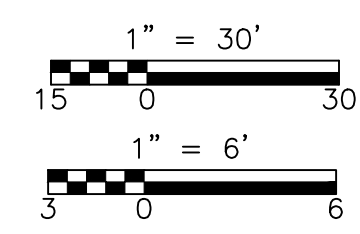
- L.O.D. — LIMITS OF DISTURBANCE
- (P) INLET PROTECTION

NOTES:

- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL PROPERLY CONNECT EXISTING LATERAL TO NEW SEWER MAIN USING TYPICAL SERVICE RECONNECTION TO NEW SEWER PIPE DETAIL ON SHEET C-501.
- REFER TO TRENCH BEDDING AND BACKFILL FOR FLEXIBLE/PVC STANDARD DETAILS CSTB-1 ON SHEET C-502 FOR FINAL PAVEMENT RESTORATION WIDTH (ONE WAY STREET).



PROFILE
H: 1" = 30'
V: 1" = 6'



- NOTES:**
EXISTING UTILITIES IN PROFILE SUCH AS GAS (G) AND WATER (WL) ARE APPROXIMATE DEPTHS ONLY (CONTRACTOR TO FIELD VERIFY).

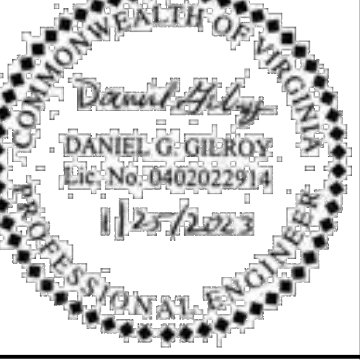
SANITARY SEWER CAPACITY UPSIZING PROJECT — 1



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	MC DATE 01-25-23
DRAWN BY:	JJS DATE 01-25-23
CHECKED BY:	RP DATE 01-25-23
APPROVED BY:	DG DATE 01-25-23



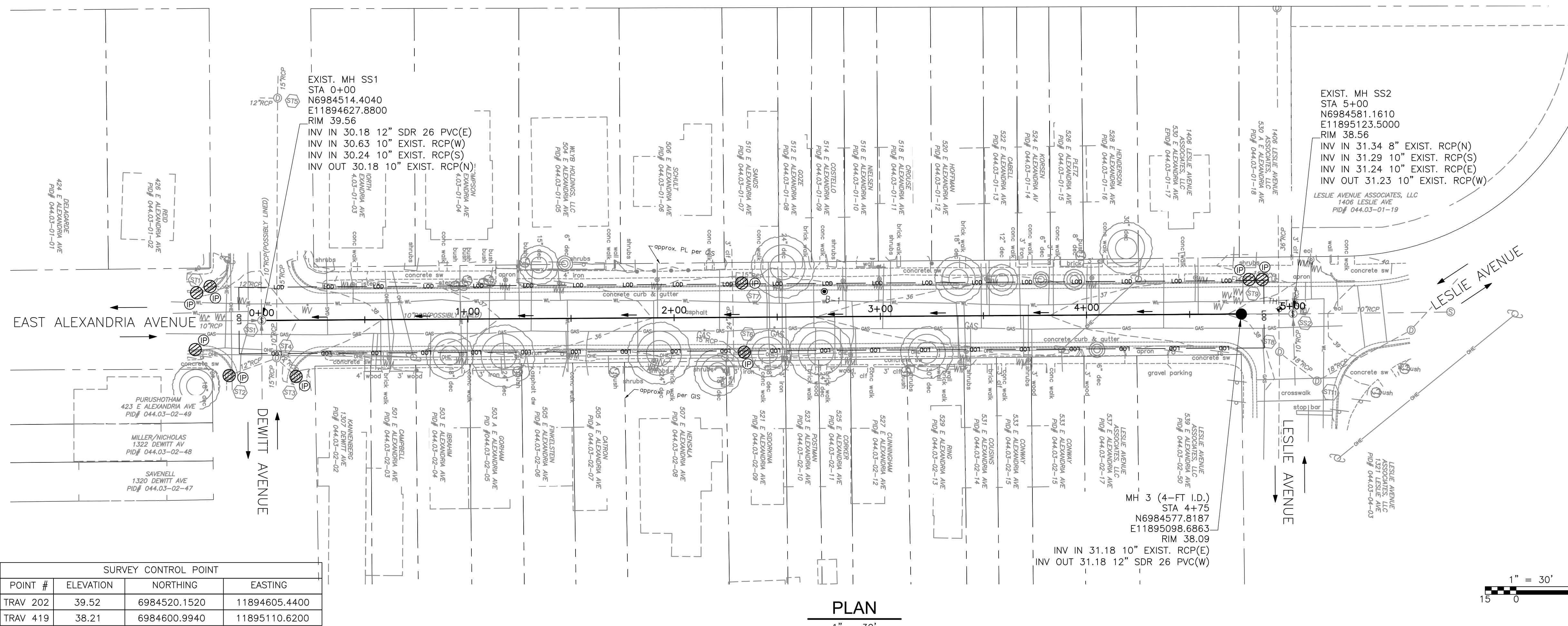
**ASHBY STREET
PLAN AND PROFILE**

C-201

SHEET
09 OF 24
SCALE
AS SHOWN

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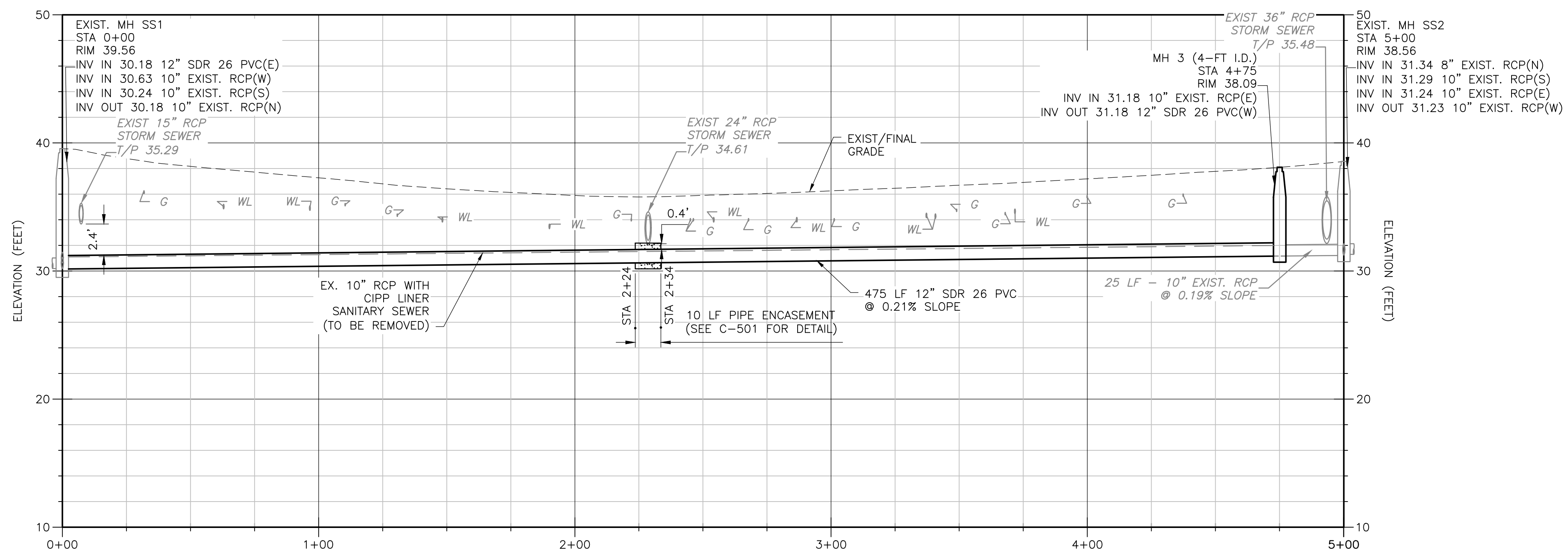
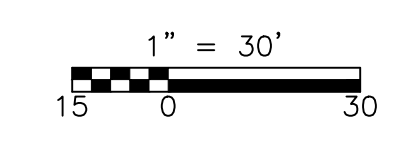
SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 202	39.52	6984520.1520	11894605.4400
TRAV 419	38.21	6984600.9940	11895110.6200

SANITARY SEWER LATERALS FROM PACP REPORTS	
STATION	LOCATION
0+46	RIGHT
0+94	RIGHT
1+16	RIGHT
1+31	LEFT
1+47	RIGHT
1+62	LEFT
1+95	RIGHT
2+17	RIGHT
2+22	LEFT
2+48	LEFT
2+48	RIGHT
3+08	RIGHT
3+18	LEFT
3+52	LEFT
4+75	RIGHT
4+00	LEFT
4+04	RIGHT
4+42	LEFT

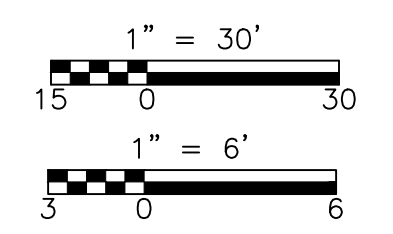
— L.O.D. — LIMITS OF DISTURBANCE
 (P) INLET PROTECTION

NOTES:

- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL PROPERLY CONNECT EXISTING LATERAL TO NEW SEWER MAIN USING TYPICAL SERVICE RECONNECTION TO NEW SEWER PIPE DETAIL ON SHEET C-501.
- MILL AND OVERLAY SHALL EXTEND CURB TO CURB AND TEN (10) FEET ON EACH END OF THE CUT. REFER TO STANDARD DETAIL C-SPR-1A ON SHEET C-502.



NOTES:
 EXISTING UTILITIES IN PROFILE SUCH AS GAS (G) AND WATER (WL) ARE APPROXIMATE DEPTHS ONLY (CONTRACTOR TO FIELD VERIFY).



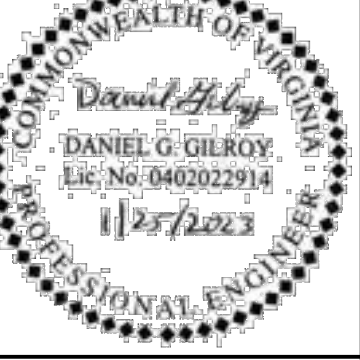
SANITARY SEWER CAPACITY UPSIZING PROJECT — 1



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22314

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	—
CONSULTANT PROJECT ID.:	—
DESIGNED BY:	MC DATE 01-25-23
DRAWN BY:	JUS DATE 01-25-23
CHECKED BY:	RP DATE 01-25-23
APPROVED BY:	DG DATE 01-25-23



**EAST ALEXANDRIA AVENUE
 PLAN AND PROFILE**

C-202
 SHEET
10 OF 24
 SCALE
 AS SHOWN



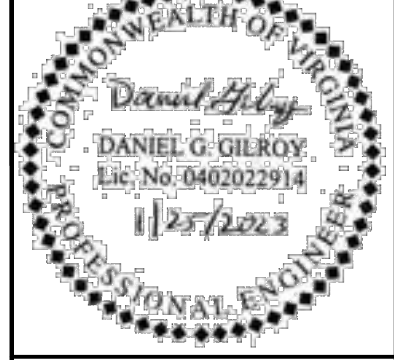
CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22314

100% DESIGN

SANITARY SEWER CAPACITY UPSIZING PROJECT - 1

REVISIONS	DESCRIPTION
DATE	BY

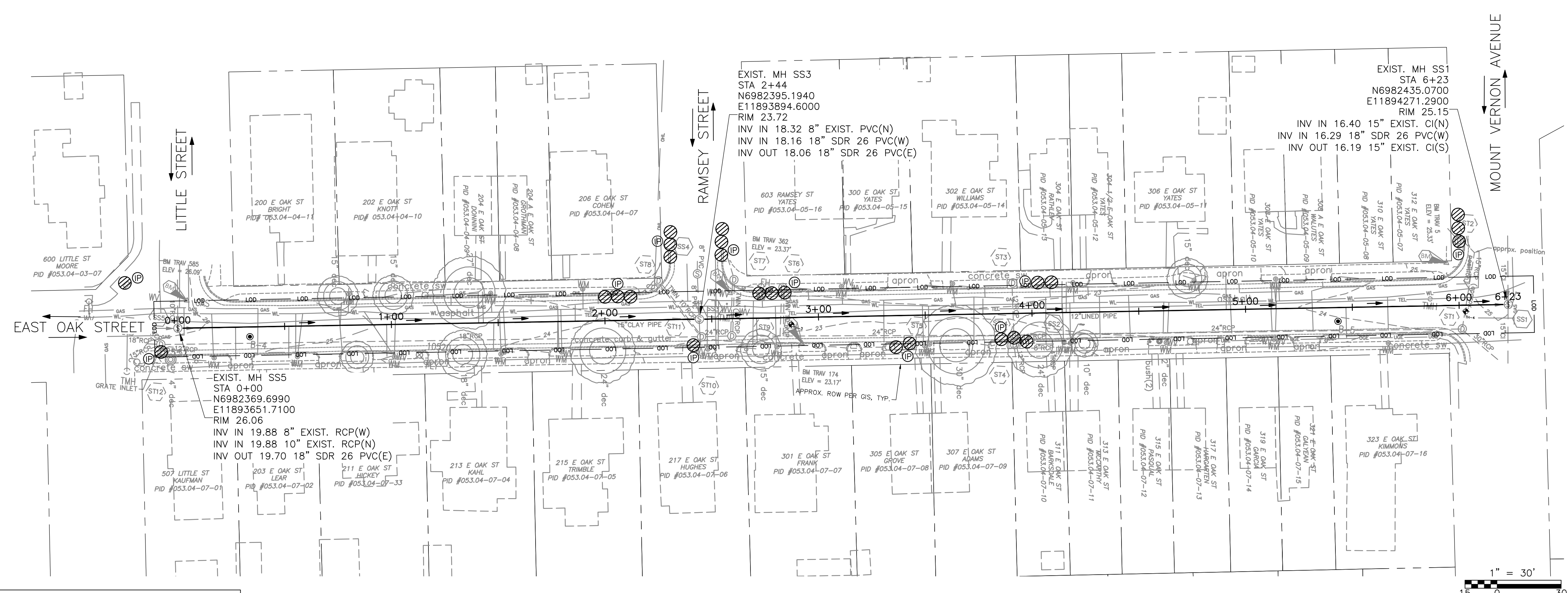
ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	MC DATE 01-25-23
DRAWN BY:	JJS DATE 01-25-23
CHECKED BY:	RP DATE 01-25-23
APPROVED BY:	DG DATE 01-25-23



**EAST OAK STREET
 PLAN AND PROFILE**

C-203

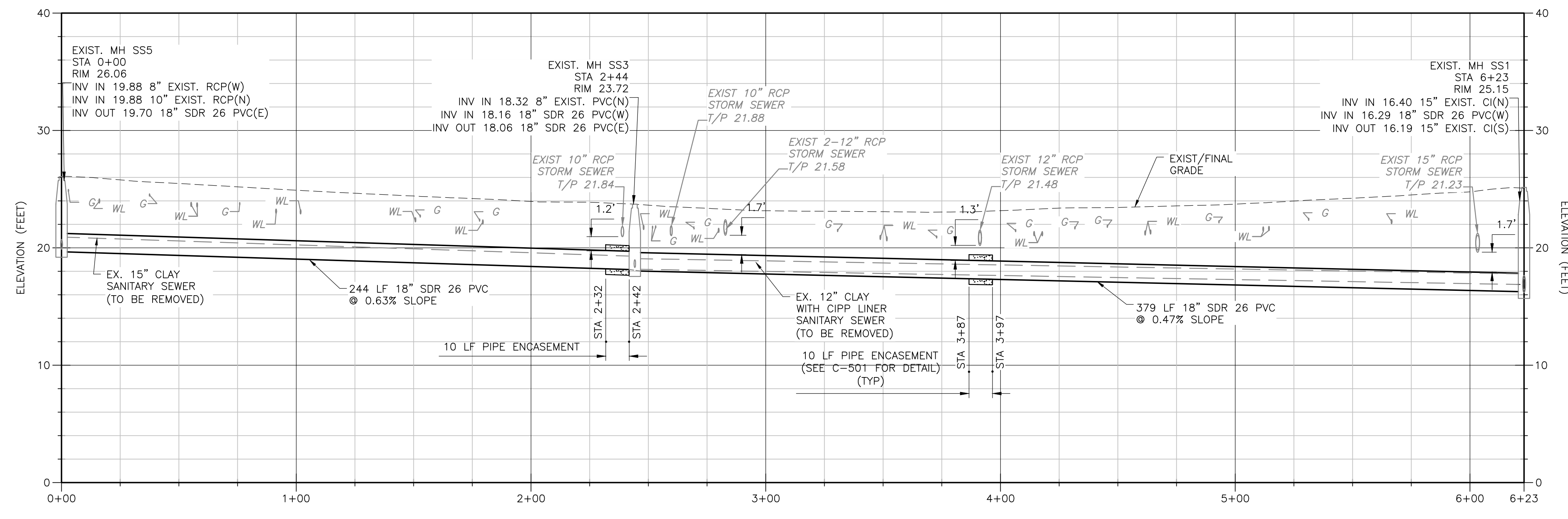
SHEET
 11 OF 24
 SCALE
 AS SHOWN



- NOTES:
- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
 - CONTRACTOR SHALL PROPERLY CONNECT EXISTING LATERAL TO NEW SEWER MAIN USING TYPICAL SERVICE RECONNECTION TO NEW SEWER PIPE DETAIL ON SHEET C-501.
 - MILL AND OVERLAY SHALL EXTEND CURB TO CURB AND TEN (10) FEET ON EACH END OF THE CUT. REFER TO STANDARD DETAILS CSPR-1A ON SHEET C-502.

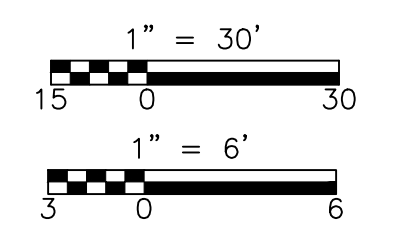
SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 585	26.09	6982382.9290	11893654.8300
TRAV 362	23.37	6982408.5990	11893907.8700
TRAV 174	23.17	6982388.1310	11893943.4600
TRAV 5	25.33	6982451.8730	11894240.7700

SANITARY SEWER LATERALS FROM PACP REPORTS	
STATION	LOCATION
0+27	RIGHT
0+52	RIGHT
0+76	LEFT
0+98	RIGHT
1+41	LEFT
1+43	LEFT
1+48	RIGHT
1+78	RIGHT
1+86	LEFT
2+45	RIGHT
2+71	RIGHT
3+77	LEFT
4+14	LEFT
4+16	LEFT
4+91	LEFT
5+12	LEFT
5+14	LEFT
5+47	RIGHT



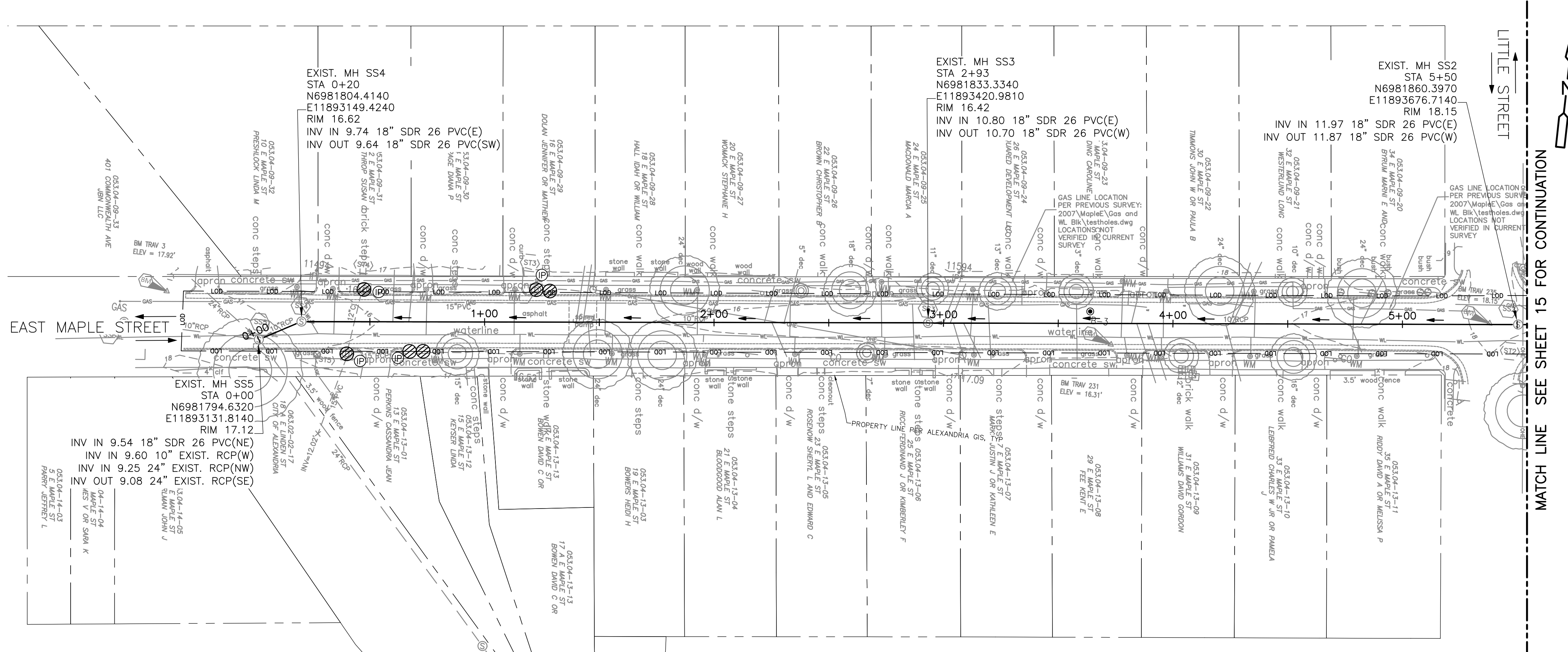
NOTES:
 EXISTING UTILITIES IN PROFILE SUCH AS GAS (G) AND WATER (WL) ARE APPROXIMATE DEPTHS ONLY (CONTRACTOR TO FIELD VERIFY).

PROFILE
 H: 1" = 30'
 V: 1" = 6'



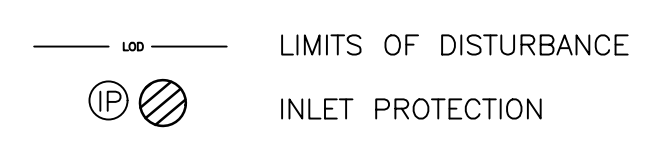
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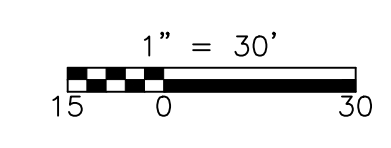


SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 3	17.92	6981811.2130	11893089.6900
TRAV 231	16.31	6981832.6170	11893501.2600
TRAV 235	18.15	6981859.5980	11893664.3200

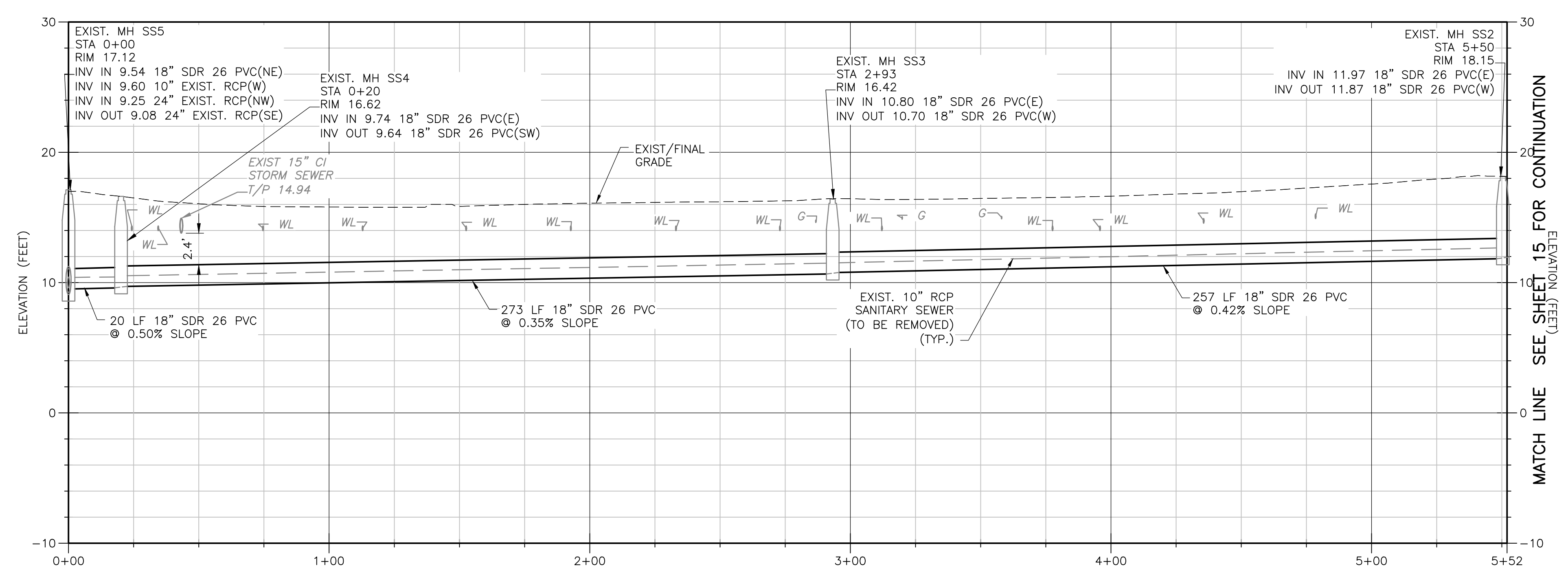
SANITARY SEWER LATERALS FROM PACP REPORTS	
STATION	LOCATION
0+60	LEFT
0+67	LEFT
1+40	LEFT
1+43	LEFT
1+45	RIGHT
2+22	LEFT
2+25	RIGHT
2+30	LEFT
3+00	LEFT
3+03	LEFT
3+04	RIGHT
3+09	RIGHT
3+82	LEFT
3+84	RIGHT
3+89	RIGHT
4+23	RIGHT
4+25	LEFT
4+26	LEFT
4+77	RIGHT
4+82	LEFT



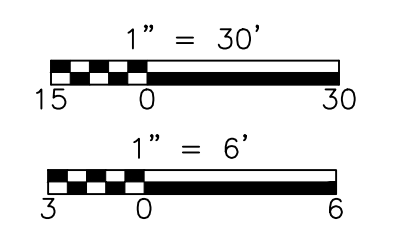
- NOTES:
- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
 - CONTRACTOR SHALL PROPERLY CONNECT EXISTING LATERAL TO NEW SEWER MAIN USING TYPICAL SERVICE RECONNECTION TO NEW SEWER PIPE DETAIL ON SHEET C-501.
 - MILL AND OVERLAY SHALL EXTEND CURB TO CURB AND TEN (10) FEET ON EACH END OF THE CUT. REFER TO STANDARD DETAILS CSPR-1A ON SHEET C-502.



PLAN
1" = 30'



- NOTES:
- EXISTING UTILITIES IN PROFILE SUCH AS GAS (G) AND WATER (WL) ARE APPROXIMATE DEPTHS ONLY (CONTRACTOR TO FIELD VERIFY).



PROFILE
H: 1" = 30'
V: 1" = 6'

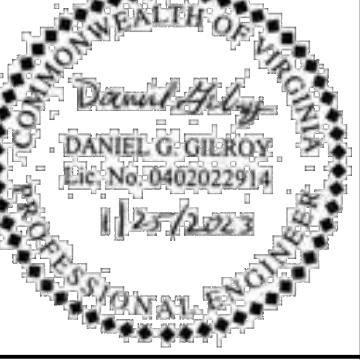
SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

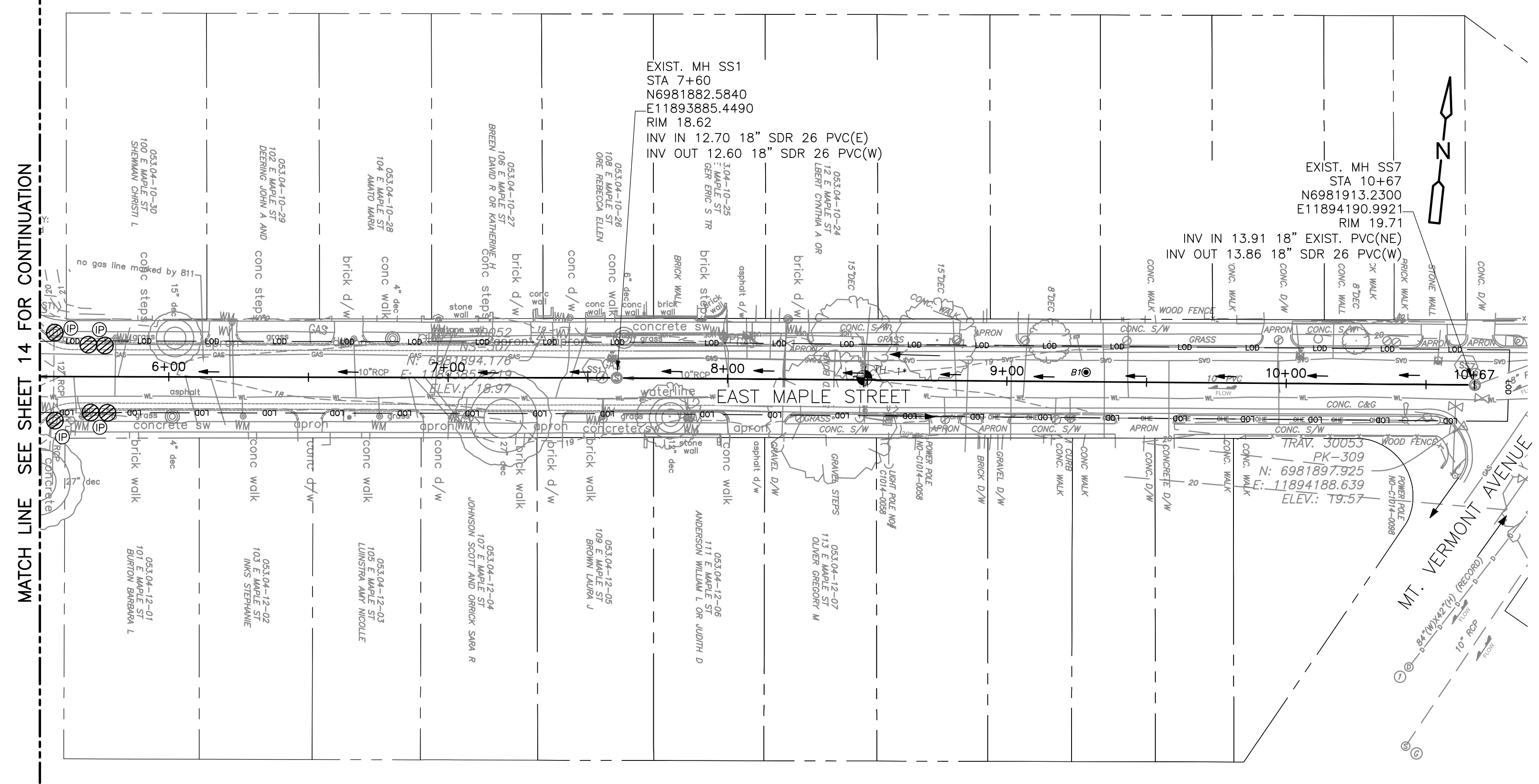
REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	
CONSULTANT PROJECT ID.:	
DESIGNED BY:	MC DATE 01-25-23
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CHECKED BY:	RP DATE 01-25-23
APPROVED BY:	DG DATE 01-25-23

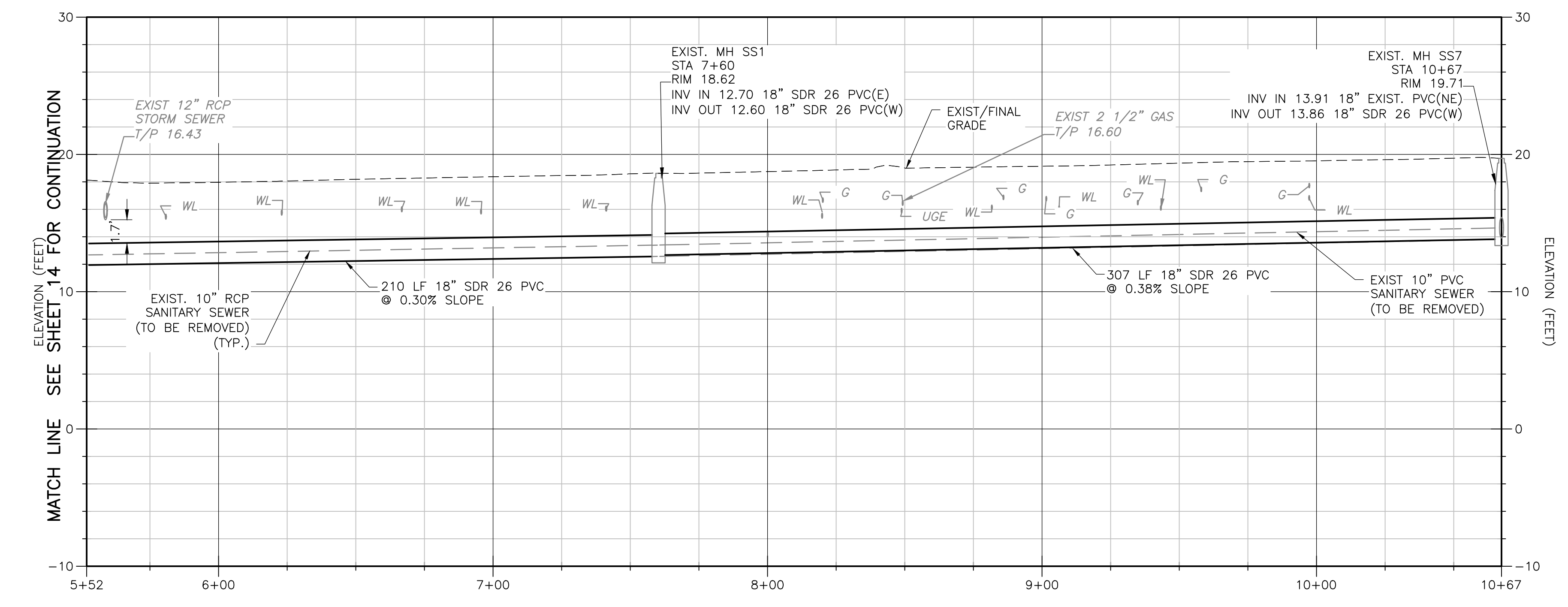


EAST MAPLE STREET
PLAN AND PROFILE I
C-204
SHEET
12 OF 24
SCALE
AS SHOWN

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PLAN
1" = 30'



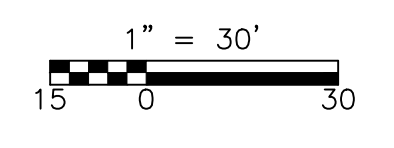
PROFILE
H: 1" = 30'
V: 1" = 6'

SURVEY CONTROL POINT			
POINT #	ELEVATION	NORTHING	EASTING
TRAV 3	17.92	6981811.2130	11893089.6900
TRAV 231	16.31	6981832.6170	11893501.2600
TRAV 235	18.15	6981859.5980	11893664.3200
TRAV 30052	18.97	6981894.1760	11893857.2190
TRAV 30053	19.57	6981897.6390	11894188.6390

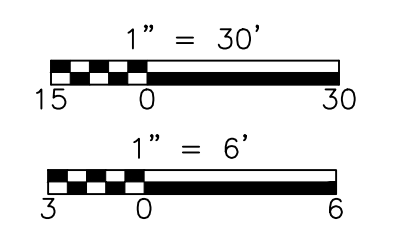
SANITARY SEWER LATERALS FROM PACP REPORTS	
STATION	LOCATION
5+66	RIGHT
5+82	LEFT
6+06	RIGHT
6+15	RIGHT
6+22	LEFT
6+86	RIGHT
6+88	RIGHT
6+92	RIGHT
6+96	LEFT
7+44	LEFT

— LDD — LIMITS OF DISTURBANCE
 (P) INLET PROTECTION

- NOTES:**
- CONTRACTOR TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
 - CONTRACTOR SHALL PROPERLY CONNECT EXISTING LATERAL TO NEW SEWER MAIN USING TYPICAL SERVICE RECONNECTION TO NEW SEWER PIPE DETAIL ON SHEET C-501.
 - MILL AND OVERLAY SHALL EXTEND CURB TO CURB AND TEN (10) FEET ON EACH END OF THE CUT. REFER TO STANDARD DETAILS CSPR-1A ON SHEET C-502.



NOTES:
 EXISTING UTILITIES IN PROFILE SUCH AS WATER (WL) AND GAS (G) ARE APPROXIMATE DEPTHS ONLY (CONTRACTOR TO FIELD VERIFY).



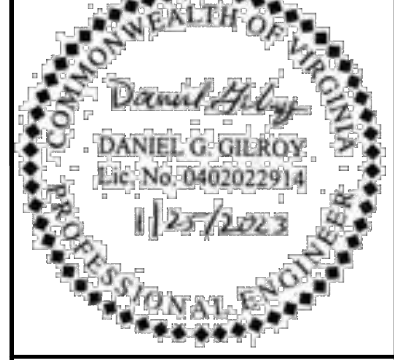
SANITARY SEWER CAPACITY UPSIZING PROJECT — 1
 100% DESIGN



CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22314

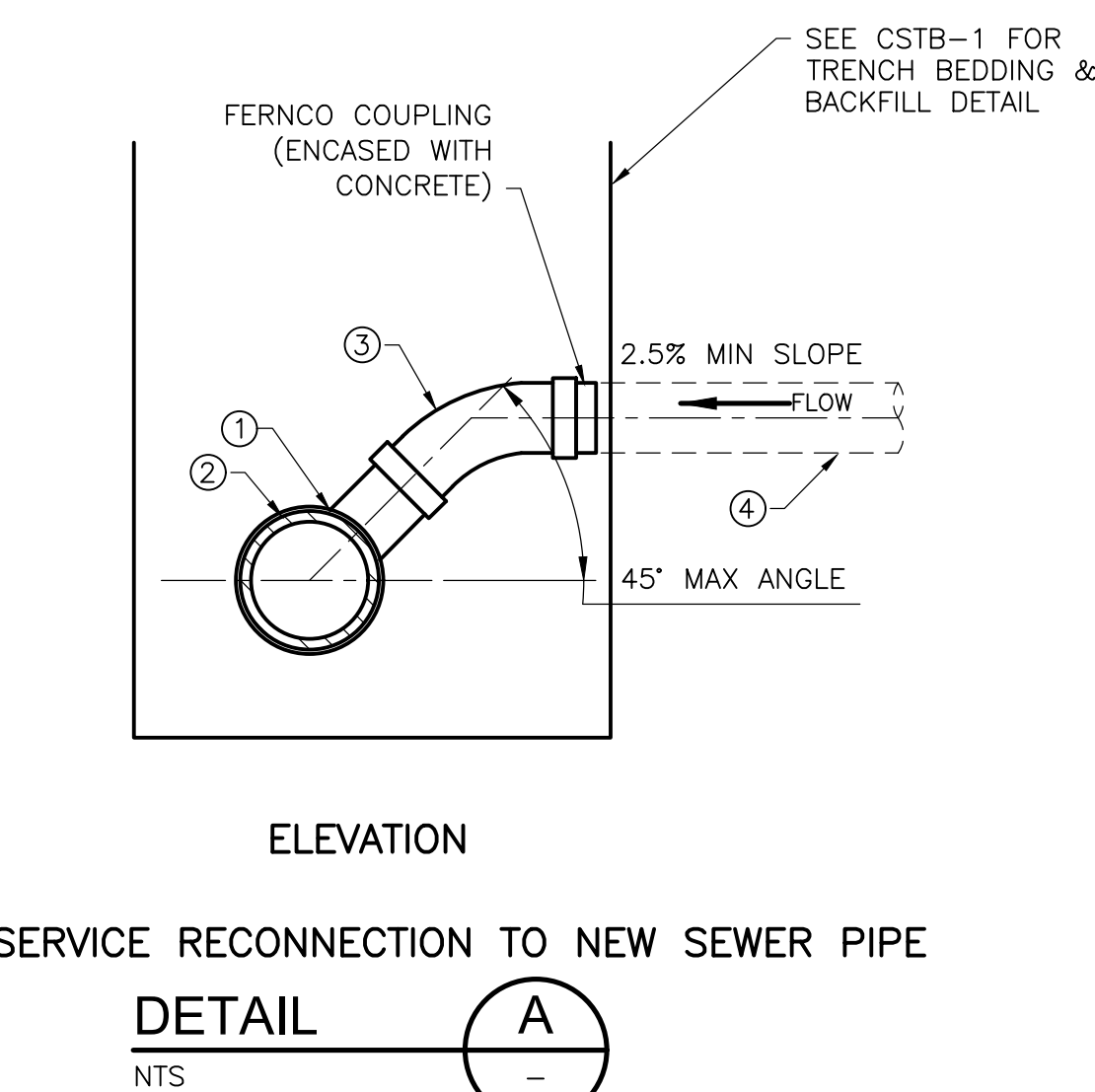
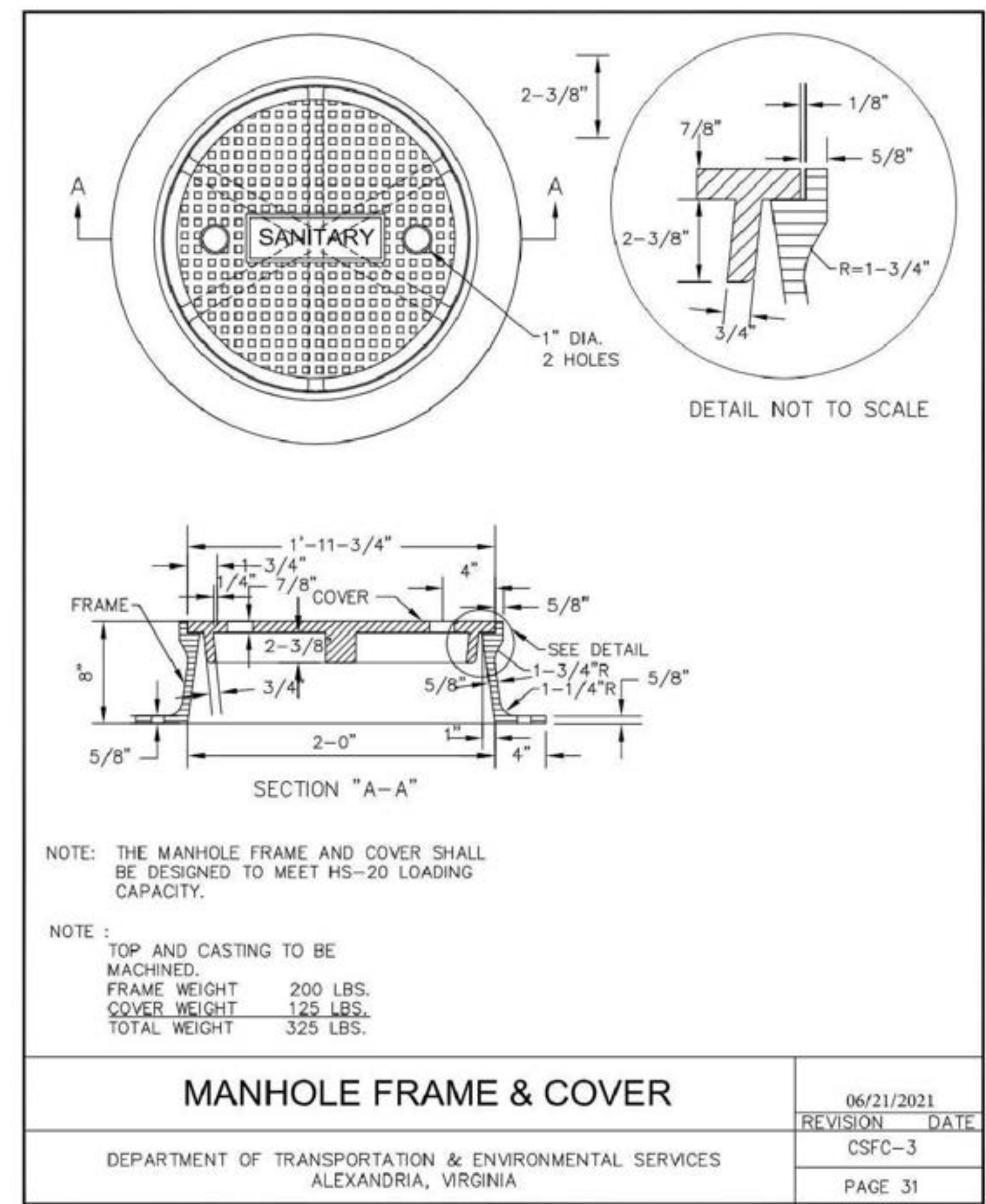
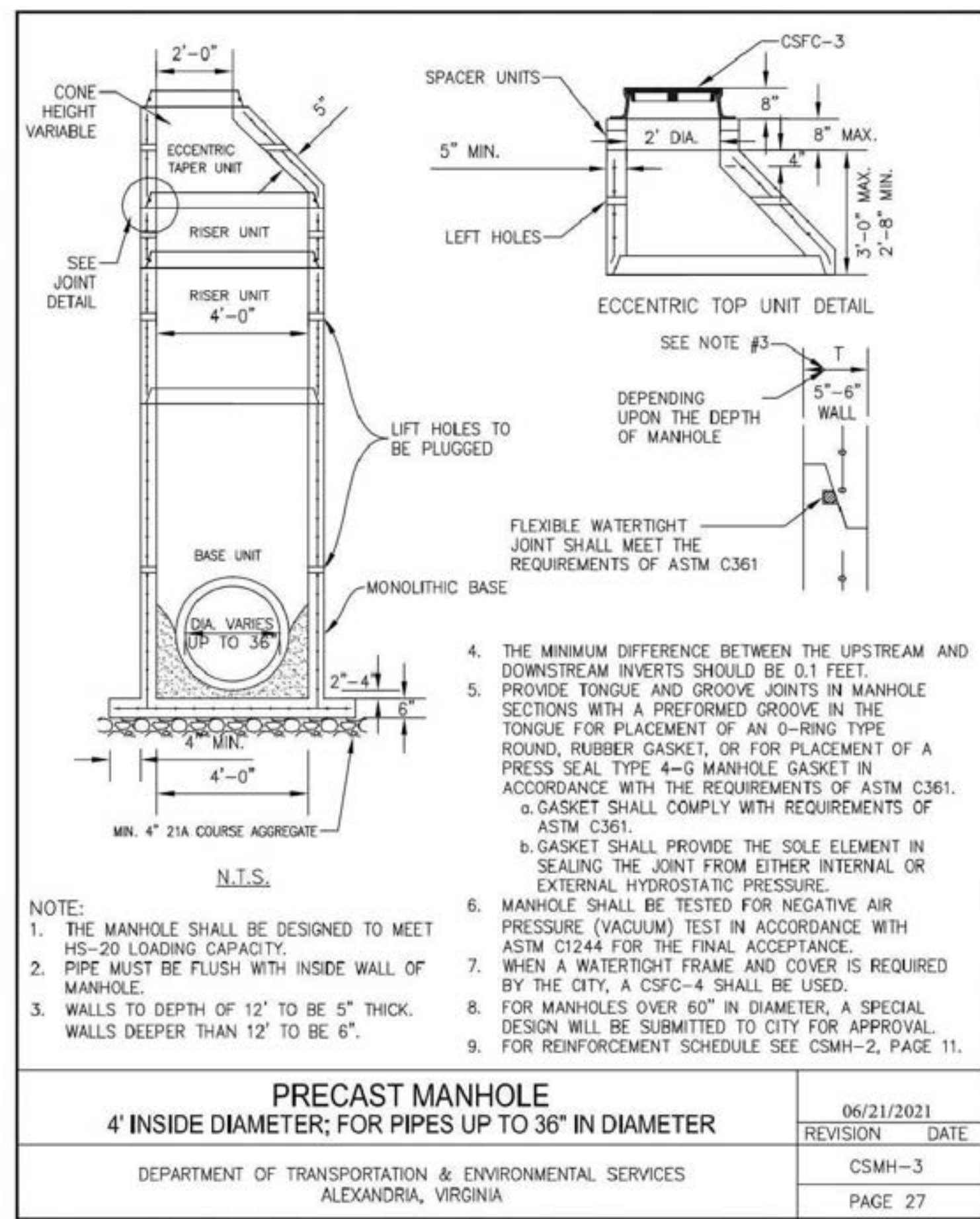
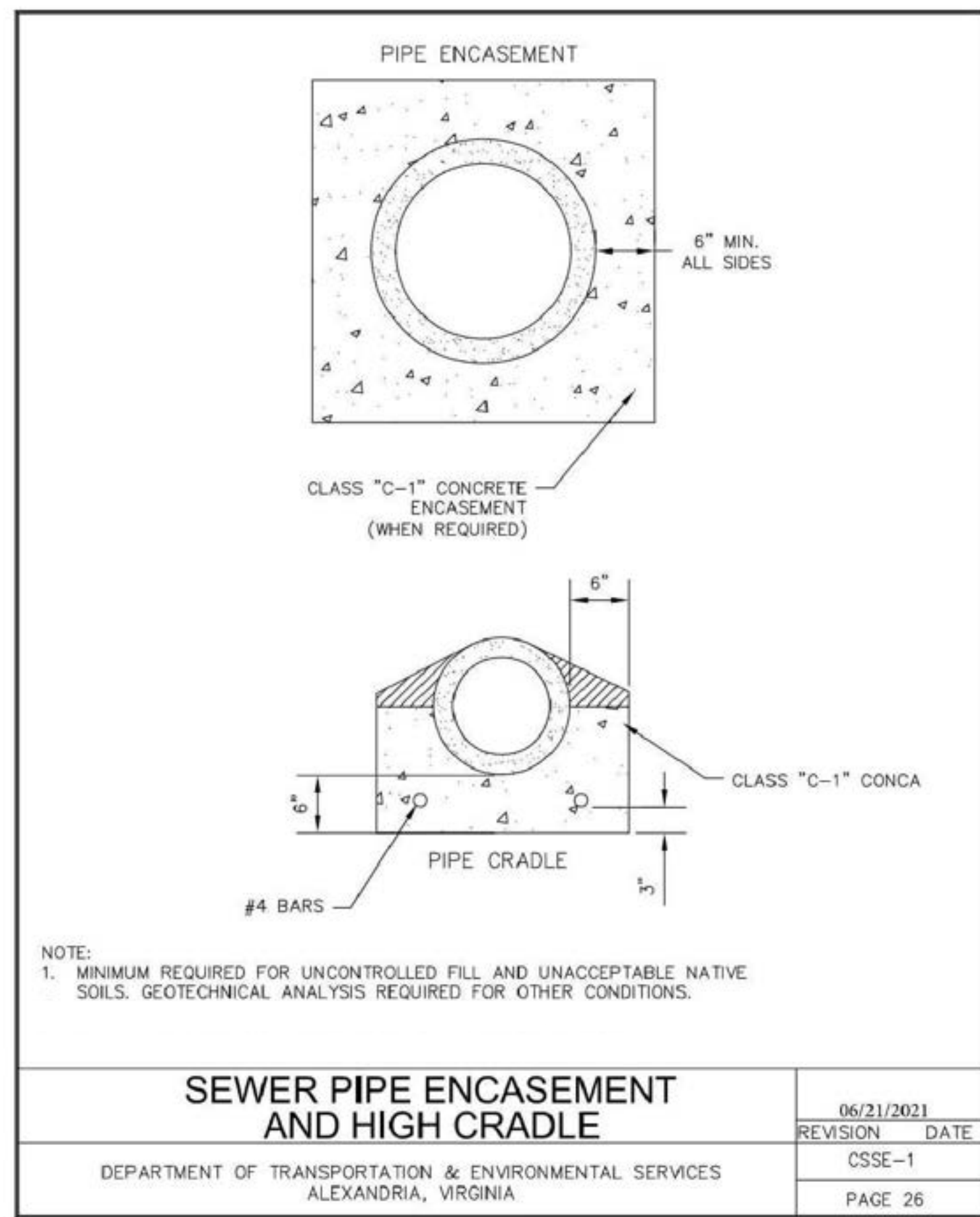
REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.: 2104012
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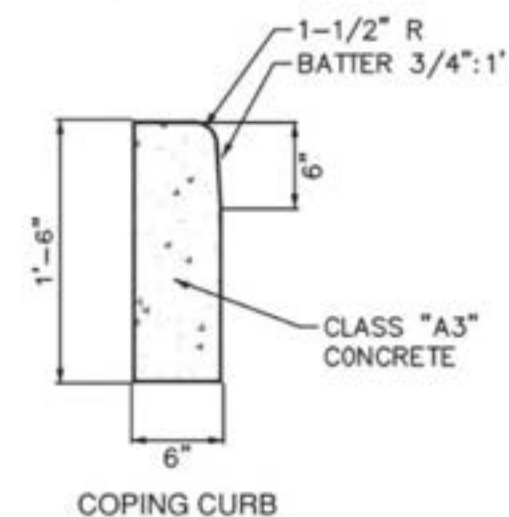
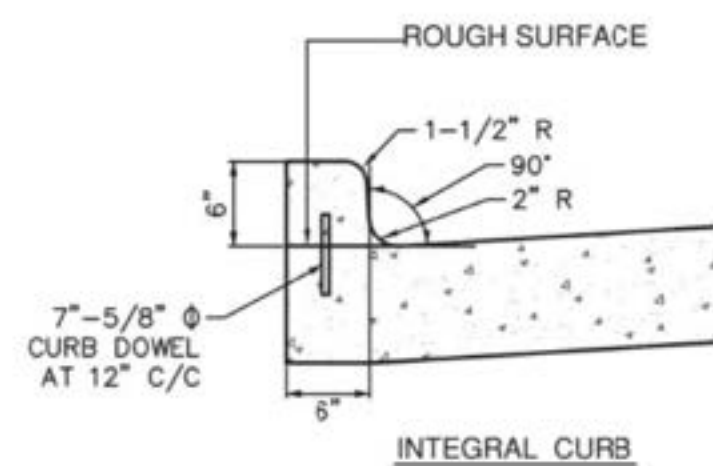
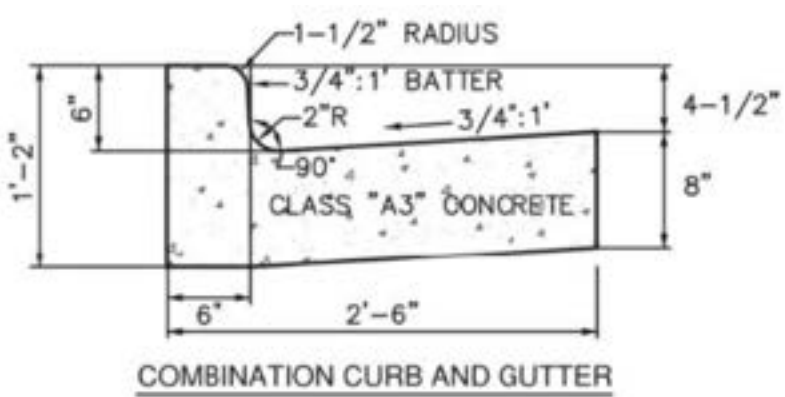


EAST MAPLE STREET
PLAN AND PROFILE II
C-205
 SHEET
13 OF 24
 SCALE
 AS SHOWN

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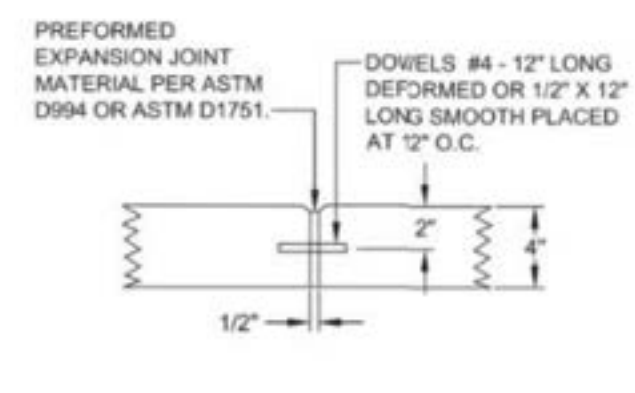
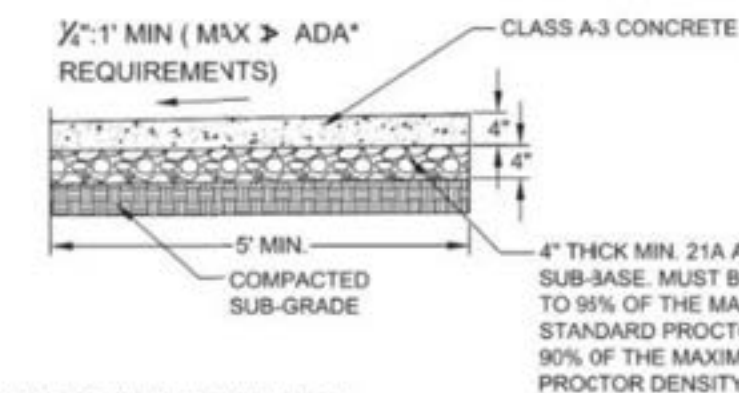
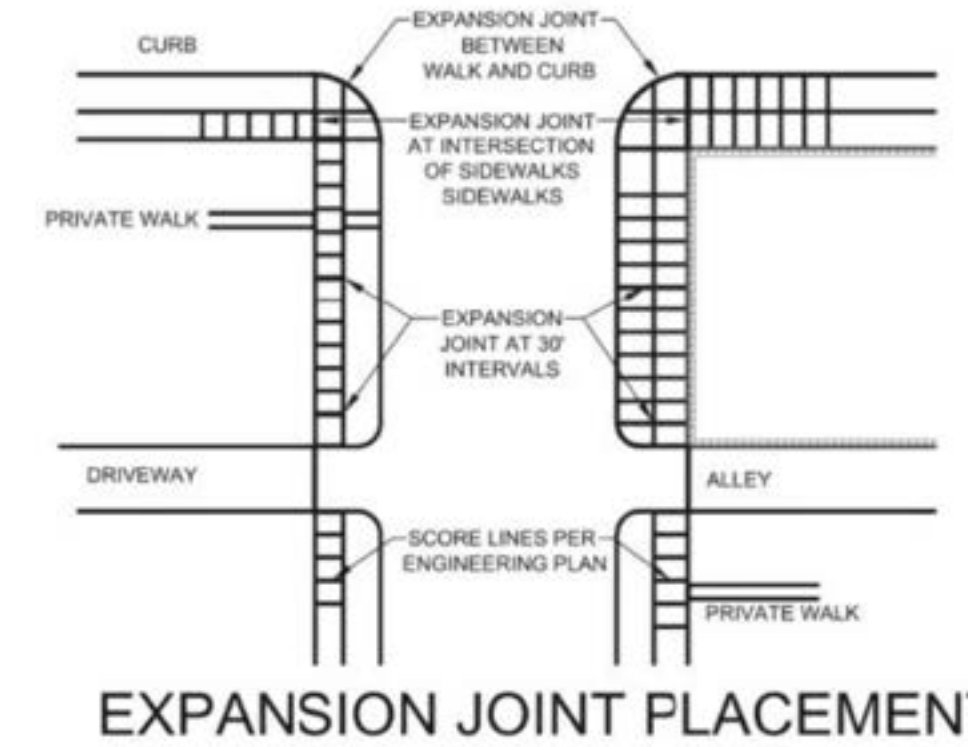


- NOTES:
1. WYE.
 2. EXISTING SEWER MAIN.
 3. 45° ELBOW/BEND
 4. EXISTING LATERAL



- NOTE:
- MATERIAL, FINISH AND TOLERANCE WILL BE IN ACCORDANCE WITH SECTION 404 - HYDRAULIC CEMENT CONCRETE OPERATIONS OF THE VDOT ROAD & BRIDGE SPECIFICATIONS, 2007.

CURB AND GUTTER AND COPPING CURB CSCG-1



*ADA: AMERICAN WITH DISABILITY ACT.

NOTES:

1. SCORING OF CONCRETE SLAB SHALL BE SAW CUT NOT MORE THAN 3/16" IN WIDTH AND NOT MORE THAN 1/4" DEEP.
2. THE EXPANSION JOINTS SHALL BE 1/2" WIDE AND SHALL BE THE FULL THICKNESS OF THE CONCRETE SLAB, AND SHALL BE OF PRE-FORMED EXPANSION JOINT MATERIAL CONFORMING TO THE REQUIREMENTS OF ASTM D994 ASPHALT OR ASTM D1751 FIBRE. EXPANSION MATERIAL SHALL BE SECURED IN A MANNER THAT WILL PREVENT MOVEMENT OR DISPLACEMENT OF CONCRETE DURING PLACEMENT.
3. THE EXPANSION JOINTS SHALL BE PLACED PERPENDICULAR TO CONCRETE CURB AT A DISTANCE OF 30' OR COINCIDING WITH THE SCORING.
4. DOWELS SHALL BE PLACED AT THE END OF A SIDEWALK PLACEMENT, AT INTERRUPTIONS FOR A DRIVEWAY, OR IF SIDEWALK SLABS ARE POURED AT DIFFERENT TIMES.
5. SAWING OF JOINTS SHALL BE CONDUCTED AS SOON AS THE CONDITION OF THE CONCRETE PERMITS AND BEFORE ANY RANDOM CRACKING APPEARS.
6. ALL STRUCTURAL ITEMS TO CONFORM TO THE LATEST EDITION OF UNIFORM STATEWIDE BUILDING CODE (USBC) REQUIREMENTS.
7. PRIOR TO CONSTRUCTION, ALL STRUCTURAL CROSS SECTIONS SHALL BE REVIEWED BY A QUALIFIED STRUCTURAL AND/OR GEOTECHNICAL ENGINEER, AND MODIFIED AS NECESSARY BASED ON THE SITE SPECIFIC GEOTECHNICAL REPORT.

CONCRETE SIDEWALK CSSW-1

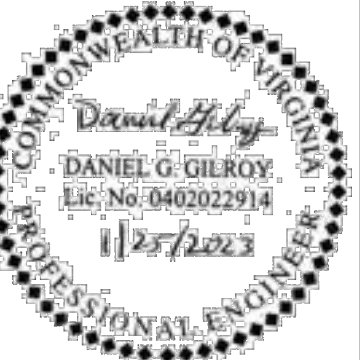
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CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DESCRIPTION

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	
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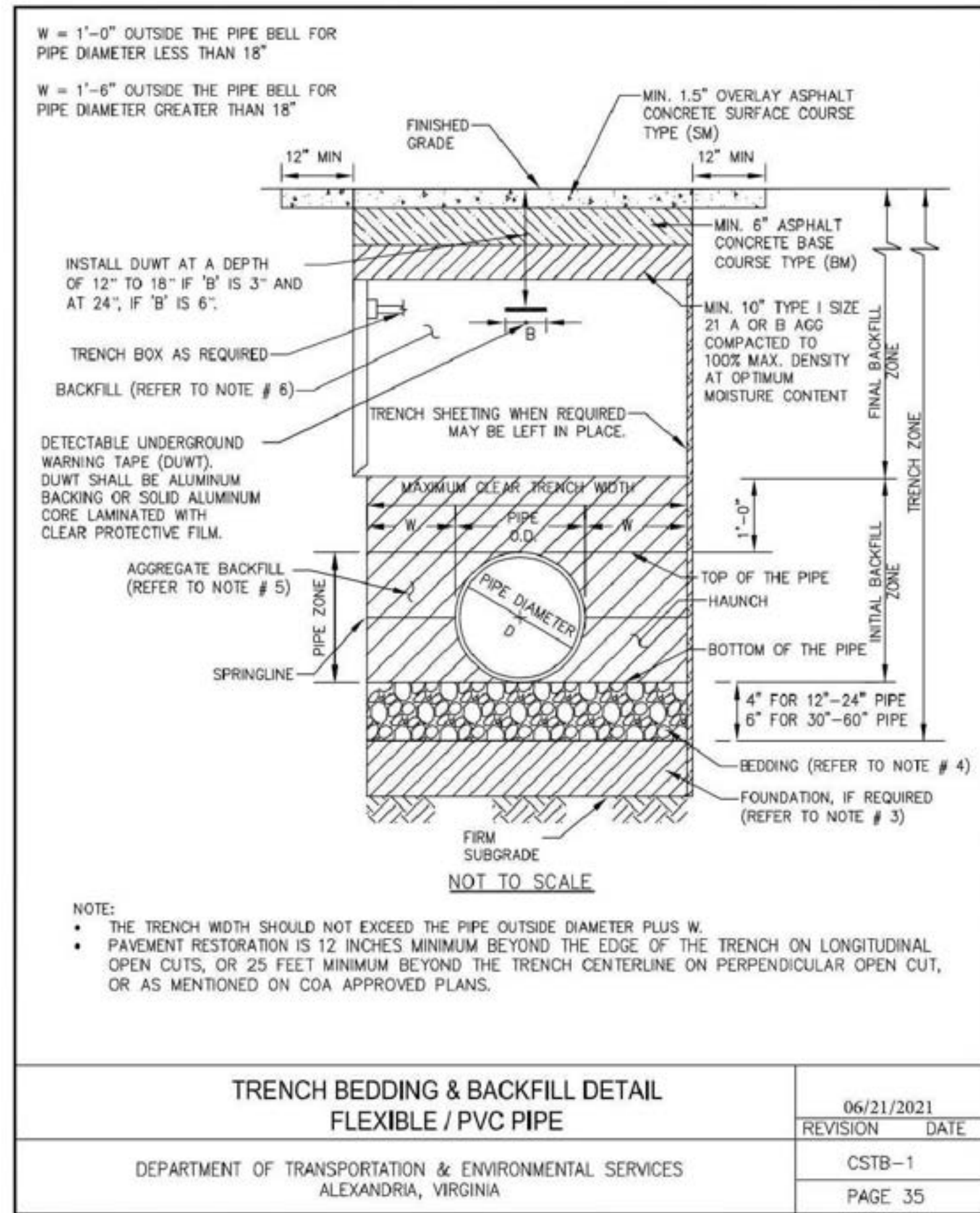
DETAILS I

C-501

SHEET 14 OF 24

SCALE NONE

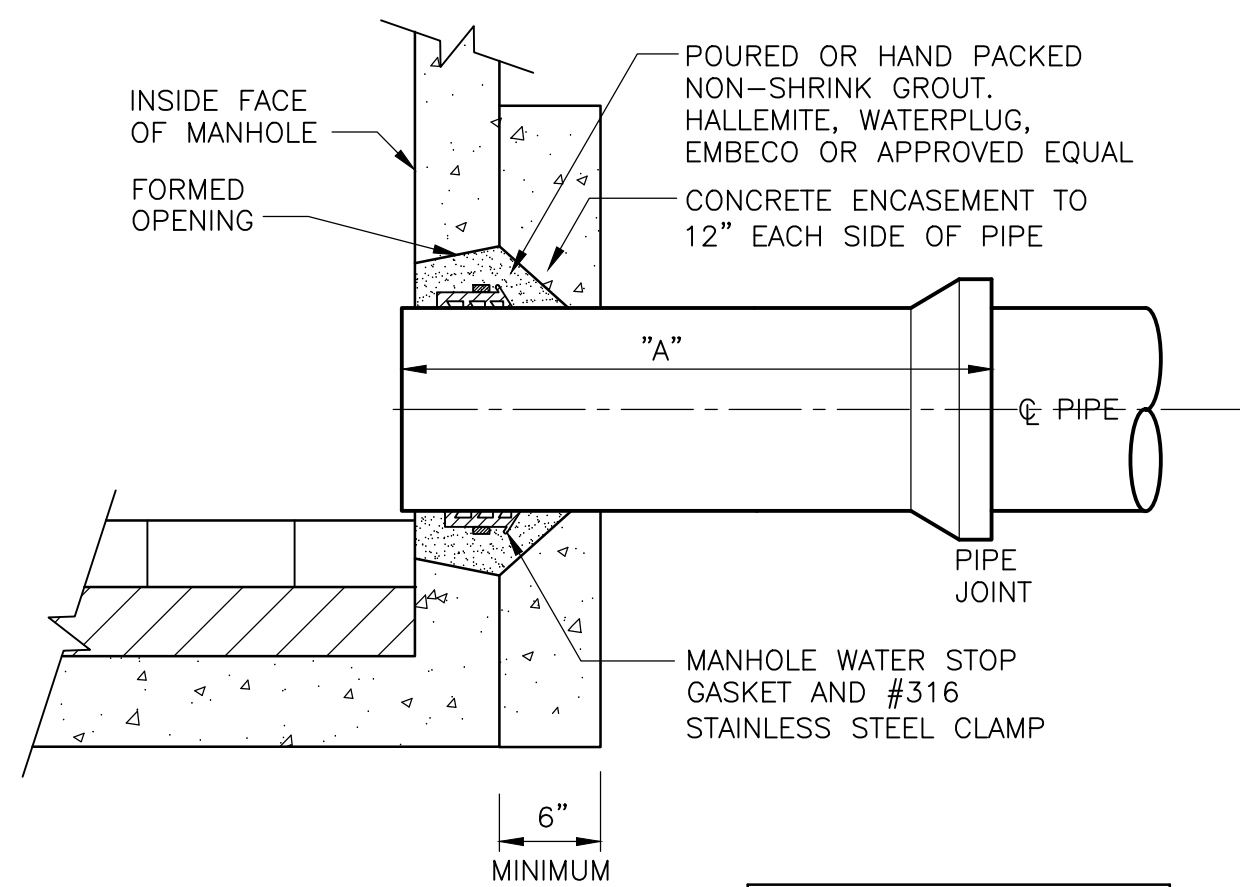
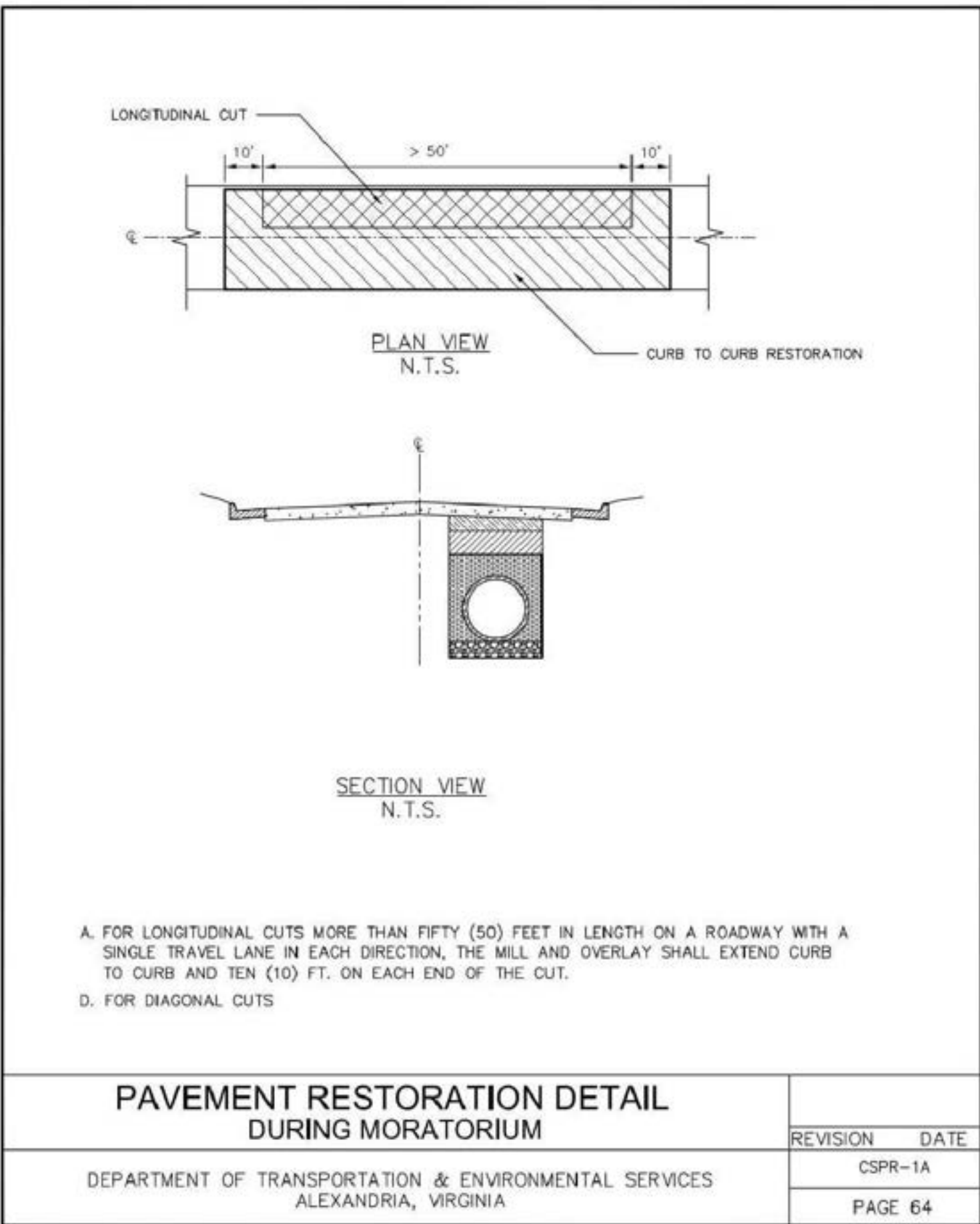
SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



NOTE:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ASTM D2321 STANDARD, AS MODIFIED IN THIS DETAIL.
- MINIMUM COVER FOR ALL H-25 LOADING APPLICATIONS SHALL BE 3'-6". MINIMUM COVER IS MEASURED FROM THE TOP OF PIPE TO THE TOP OF A RIGID PAVEMENT OR BOTTOM OF FLEXIBLE/ASPHALT PAVEMENT SECTIONS.
- UNSTABLE TRENCH BOTTOM MATERIAL AND/OR ROCK SHALL BE EXCAVATED TO A DEPTH SPECIFIED BY THE ENGINEER AND SHALL BE REPLACED WITH CLASS I MATERIAL PER CURRENT ASTM D2321 STANDARD OR 21-A COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY OR 90% OF THE MAXIMUM MODIFIED PROCTOR DENSITY. WHEN STANDING WATER IS IN PIPE FOUNDATION AREA, #57 STONE CAN BE USED AS A BACKFILL IN THE SUBFOUNDATION WITH THE CONDITION THAT #57 STONE SHALL BE CAPPED WITH A MINIMUM 4" CRUSHER RUN OR 21-A PRIOR TO PLACEMENT OF A PIPE (COMPACTION TESTING ON #57 STONE IS NOT REQUIRED; SEAT STONE IN TRENCH). FOR SEVERE CONDITIONS, THE ENGINEER MAY REQUIRE A SPECIAL FOUNDATION SUCH AS PILES OR SHEETING CAPPED WITH CONCRETE MAT. CONTROL OF QUICK AND UNSTABLE TRENCH BOTTOM CONDITIONS MAY BE ACCOMPLISHED WITH THE USE OF APPROPRIATE GEOTEXTILES.
- BEDDING MATERIAL SHALL BE CLASS I MATERIAL #26 AND #27 PER CURRENT ASTM D2321 STANDARD OR VDOT AGGREGATE #8 OR CRUSHER RUN AGGREGATE #25 OR #26 CONFORMING TO THE REQUIREMENTS OF SECTION 205 AND 302 OF VDOT ROAD AND BRIDGE SPECIFICATIONS. WORK MATERIAL UNDER PIPE TO PROVIDE HAUNCH SUPPORT.
- INITIAL BACKFILL MATERIAL SHALL BE CLASS I MATERIAL PER CURRENT ASTM D2321 STANDARD OR VDOT AGGREGATE #8, #68, OR #78, OR CRUSHER RUN AGGREGATE #25 OR #26 CONFORMING TO THE REQUIREMENTS OF SECTION 205 OF VDOT ROAD AND BRIDGE SPECIFICATIONS; OR AGGREGATE BASE MATERIAL SIZE 21 A OR FLOWABLE FILL. THE BACKFILL SHALL BE INSTALLED IN LIFTS AND COMPACTED PER ASTM D2321, AS APPLICABLE. BACKFILL SHALL EXTEND TO NOT LESS THAN 1'-0" ABOVE THE TOP OF THE PIPE.
- EXCAVATED MATERIAL BACKFILLED IN 6" LAYERS TO 95% COMPACTION. SELECT MATERIAL, WHERE CALLED FOR, MAY BE USED.
- BACKFILL UNDER PAVED ROAD TO BE SELECT MATERIAL VDOT 21A.
- SHEETING LEFT IN PLACE SHALL BE EITHER STEEL OF PRESSURE TREATED WOOD.

TRENCH BEDDING & BACKFILL DETAIL NOTES FOR PVC	06/21/2021
REVISION	DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES ALEXANDRIA, VIRGINIA	CSTB-1A PAGE 36



- NOTES:
- CONTRACTOR SHALL RESHAPE MANHOLE INVERTS AND BENCHES UPON COMPLETION OF SEWER MAIN TIE-IN.
 - RESHAPED INVERTS SHALL BE U-SHAPED WITH DEPTHS MATCHING THE PLANS.
 - INVERT CHANNEL SHALL PROVIDE SMOOTH FLOW TRANSITION FOR FLOW OF SEWER, WITH NO DISRUPTION OF FLOW FROM THE HIGHEST INLET SEWER MAIN TO THE OUTLET SEWER MAIN.
 - ALL BENCHES AND INVERT CHANNELS SHALL BE SMOOTH AND FREE OF SHARP EDGES, PROTRUSIONS, AND DROPS.

PIPE CONNECTION
DETAIL B
NTS

100% DESIGN

SANITARY SEWER CAPACITY UPSIZING PROJECT - 1

CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DATE	DESCRIPTION

ALEXANDRIA PROJECT NO.: 2104012
DATE OF PLAN ISSUANCE: _____
CONSULTANT PROJECT ID: _____
DESIGNED BY: MC DATE 01-25-23
DRAWN BY: JUS DATE 01-25-23
CHECKED BY: RP DATE 01-25-23
APPROVED BY: DG DATE 01-25-23

DETAILS II

C-502

SHEET
15 OF 24
SCALE
NONE

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. AN EROSION AND SEDIMENT CONTROL PLAN MUST BE APPROVED BY THE DIRECTOR OF TRANSPORTATION AND ENVIRONMENTAL SERVICES PRIOR TO ANY LAND DISTURBING ACTIVITY GREATER THAN 2,500 SQUARE FEET.
2. THE CONTRACTORS ARE TO KEEP DENUDED AREAS TO A MINIMUM. AN EROSION AND SEDIMENT CONTROL PLAN IS INCLUDED WITH THESE FINAL PLANS FOR APPROVAL BY T&ES FOR REFERENCE BY THE EROSION AND SEDIMENT CONTROL PERMIT. ALL EROSION/SEDIMENT CONTROL MEASURES WILL CONFIRM TO THE CURRENT STANDARD OF THE CITY OF ALEXANDRIA AND THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).
3. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH) AND VIRGINIA REGULATIONS §4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
4. 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 (CRLD) IS REQUIRED TO ATTEND PRE-CONSTRUCTION MEETING.
5. ALL EROSION AND SEDIMENT CONTROL MEASURE ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING. AN INSPECTION BY THE CITY OF ALEXANDRIA IS REQUIRED AFTER INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND BEFORE ANY CLEARING OR GRADING CAN BEGIN.
6. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
7. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE CITY OF ALEXANDRIA.
8. ALL DISTURBED AREAS OF THE SITE NOT TO BE WORKED FOR SEVEN OR MORE CALENDAR DAYS MUST BE STABILIZED.
9. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
10. DURING THE DEWATERING OPERATION, WATER WILL BE PUMPED THROUGH AN APPROVED FILTERING DEVICE.
11. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
12. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO PREVENT EROSION AND SEDIMENTATION AND AS DETERMINED BY THE CITY OF ALEXANDRIA.
14. ANY DENUDED SLOPES, EITHER DISTURBED OR CREATED BY THIS PLAN THAT EXCEED 2,500 SQUARE FEET SHALL BE SODDED AND PEGGED FOR STABILITY AND EROSION CONTROL. AT THE COMPLETION OF THE PROJECT AND PRIOR TO THE RELEASE OF THE BOND, ALL DISTURBED AREAS SHALL BE STABILIZED PERMANENTLY AND ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHOULD BE REMOVED.
15. AT THE COMPLETION OF THE PROJECT, ALL DISTURBED AREAS SHALL BE STABILIZED AND ALL TEMPORARY EROSION AND SEDIMENT CONTROL SHALL BE REMOVED.

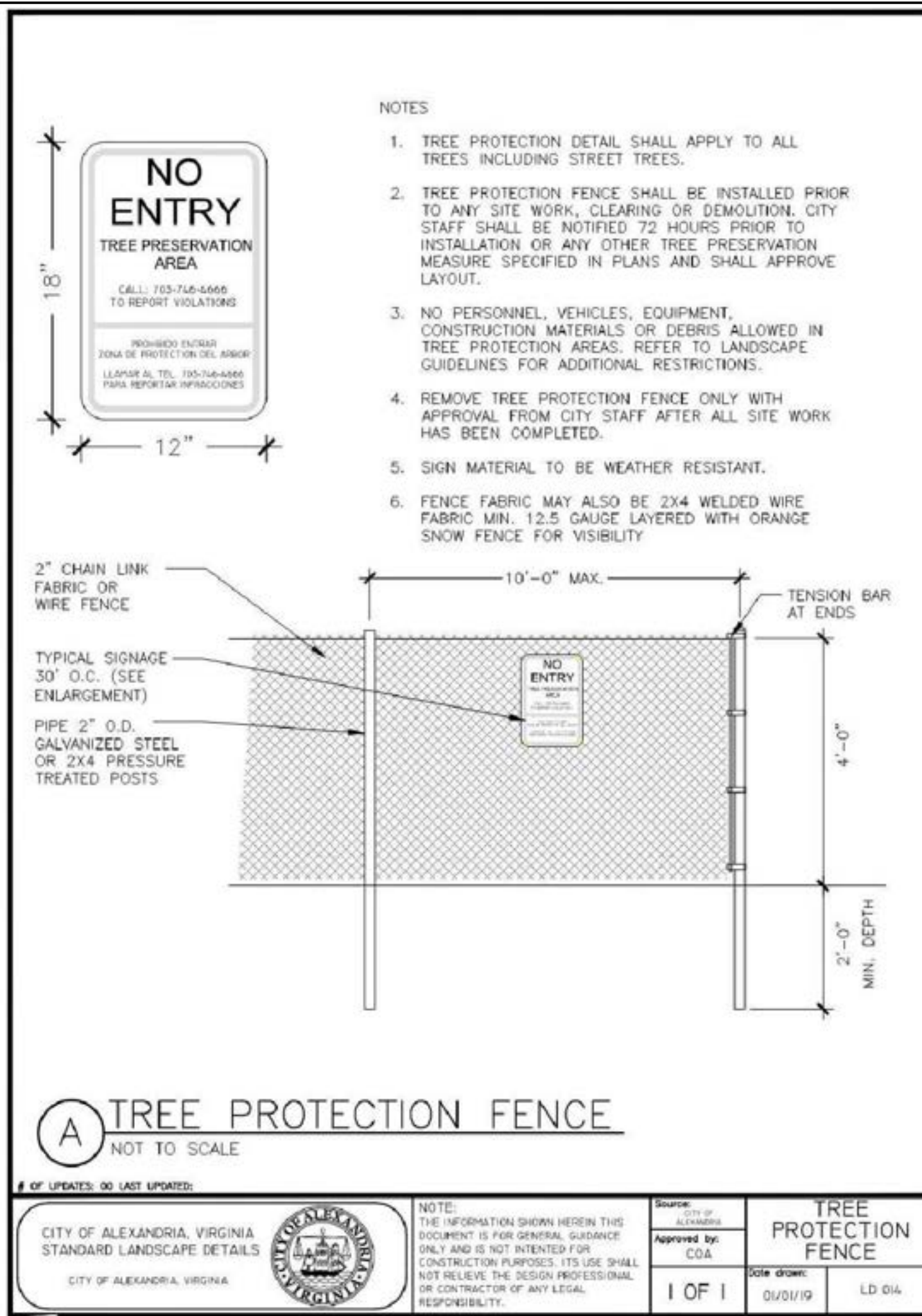
SEQUENCE OF CONSTRUCTION

1. INSTALL INLET PROTECTION AT EXISTING STORM DRAIN INLETS AS NECESSARY.
2. CONDUCT THE DEMOLITION AND CONSTRUCTION ACTIVITIES ACCORDING TO THE APPLICABLE PLANS.
3. AS CONTRIBUTORY DRAINAGE AREAS ARE STABILIZED AND WITH THE PERMISSION OF THE EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE INDIVIDUAL EROSION AND SEDIMENT CONTROL PRACTICES.
4. INSTALL ADDITIONAL EROSION IN SEDIMENT CONTROL PRACTICES AS NECESSARY AND AS DIRECTED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR.
5. UPON COMPLETION OF DEMOLITION, CONSTRUCTION AND LAND DISTURBING ACTIVITIES AND WITH THE APPROVAL OF THE EROSION AND SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING EROSION AND SEDIMENT CONTROL PRACTICES AND PROVIDE PERMANENT STABILIZATION ACCORDING TO APPROVED METHODS.
6. CONSTRUCTION DEBRIS MUST BE REMOVED TO AN APPROVED LANDFILL WITH ADEQUATE FREQUENCY IN ACCORDANCE WITH THE VIRGINIA STATE LITTER CONTROL ACT.

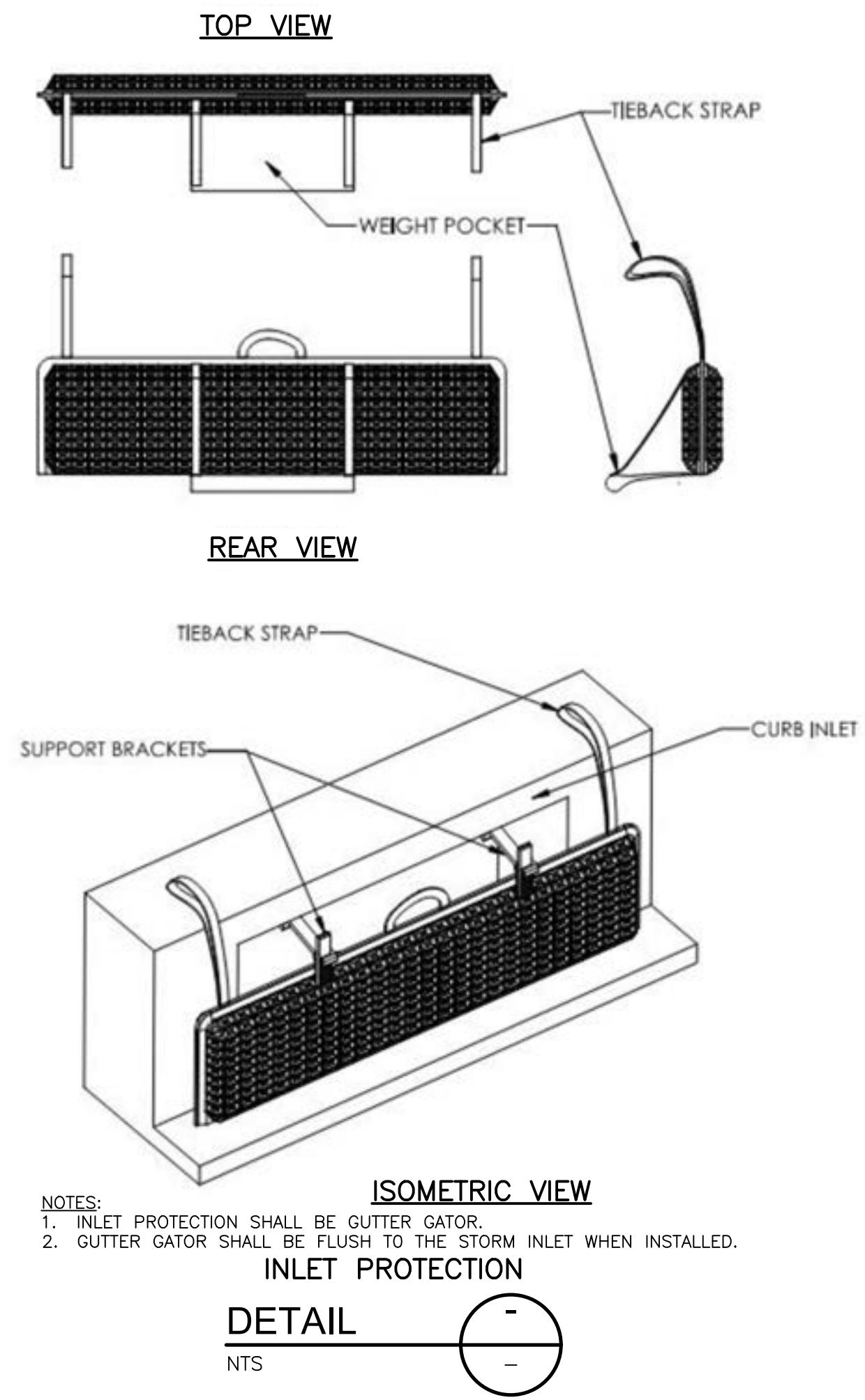
EROSION & SEDIMENT CONTROL
 IMPERMEABLE AREA DISTURBED: 69,740 SQFT
 PERMEABLE AREA DISTURBED: 0.00 SQFT
 TOTAL AREA DISTURBED: 69,740 SQFT

WETLAND DISTURBANCE
 PERMANENT: 0.00 ACRES
 TEMPORARY: 0.00 ACRES

RESOURCE PROTECTION AREA DISTURBANCE
 PERMANENT: 0.00 ACRES
 TEMPORARY: 0.00 ACRES



- NOTES:
 1. CONTRACTOR SHALL FIELD COORDINATE WITH CITY ARBORIST FOR THE TREE BRANCH PRUNING RELATED WORK.



- NOTES:
 1. INLET PROTECTION SHALL BE GUTTER GATOR.
 2. GUTTER GATOR SHALL BE FLUSH TO THE STORM INLET WHEN INSTALLED.

DETAIL
 NTS

SANITARY SEWER CAPACITY UPSIZING PROJECT — 1

100% DESIGN

CITY OF ALEXANDRIA, VIRGINIA
 DEPARTMENT OF PROJECT IMPLEMENTATION
 301 KING STREET
 ALEXANDRIA, VIRGINIA 22314

REVISONS	DATE	BY	DESCRIPTION

ALEXANDRIA PROJECT NO.: 2104012	DATE OF PLAN ISSUANCE: —	CONSULTANT PROJECT ID: —	DESIGNED BY: MC DATE 01-25-23	DRAWN BY: JUS DATE 01-25-23	CHECKED BY: RP DATE 01-25-23	APPROVED BY: DG DATE 01-25-23
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DANIEL G. GILROY
 LICENSE NO. 0402022914
 PROFESSIONAL ENGINEER

EROSION & SEDIMENT CONTROL NOTES AND DETAILS

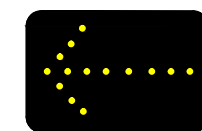







C-503

SHEET 16 OF 24

SCALE NONE

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LEGEND

-  ILLUMINATED FLASHING AMBER ARROW PANEL TYPE C
-  ILLUMINATED FLASHING AMBER (CAUTION MODE) ARROW PANEL TYPE B OR C
-  AREA UNDER CONSTRUCTION
-  TRAFFIC FLOW
-  CHANNELIZING DEVICE
-  ARROW PANEL
-  SIGN
-  FLAGGER STATION

MAINTENANCE OF TRAFFIC NOTES

1. CONSTRUCTION WORK INCLUDES AN OPEN CUT CONSTRUCTION ALONG THE FOLLOWING AREAS:
 - A. APPROXIMATELY 290 LINEAR FEET OF 12-INCH SDR 26 PVC ON ASHBY STREET.
 - B. APPROXIMATELY 475 LINEAR FEET OF 12-INCH SDR 26 PVC ON EAST ALEXANDRIA AVENUE.
 - C. APPROXIMATELY 623 LINEAR FEET OF 18-INCH SDR 26 PVC ON EAST OAK STREET.
 - D. APPROXIMATELY 1,067 LINEAR FEET OF 18-INCH SDR 26 PVC ON EAST MAPLE STREET.

TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY ASPHALT CONCRETE WHERE REQUIRED SHALL BE INSTALLED FOR ALL PHASES.
2. ITEMS FOR TEMPORARY MAINTENANCE OF TRAFFIC SHALL BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE "VIRGINIA WORK AREA PROTECTION MANUAL."
3. THE CONTRACTOR SHALL FURNISH, INSTALL AND OPERATE MIN. 2 (TWO) PORTABLE VARIABLE MESSAGE SIGNS WITH CLOSURE INFORMATION AHEAD OF WORK AREA 3 WEEKS PRIOR TO CLOSURE.
4. THE CONTRACTOR SHALL COVER ANY EXISTING SIGN WHICH IS NOT APPLICABLE, AS DIRECTED BY THE TRAFFIC AUTHORITY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH VDOT AND ANY OTHER CONTRACTORS IN THE AREA.
6. THE CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR COVER ANY OTHER TRAFFIC CONTROL DEVICE WITHOUT PRIOR PERMISSION FROM THE TRAFFIC ENGINEERING DIVISION. ANY TRAFFIC SIGNAL CONDUIT, CABLE OR TRAFFIC DETECTION DEVICES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.
7. AT THE END OF WORK DAY, ALL EXCAVATIONS SHALL BE FILLED WITH BASE ASPHALT AND SHALL BE OPENED FOR TRAFFIC.
8. MAINTENANCE OF TRAFFIC PLANS AND DETAILS SHOWN HERE SHALL BE FOLLOWED BY THE CONTRACTOR DURING CONSTRUCTION. SHOULD THE CONTRACTOR DESIRE TO FOLLOW AN ALTERNATE PLAN THEY SHALL SUBMIT THE PLAN PRIOR TO CONSTRUCTION TO VDOT.
9. THE CONTRACTOR SHALL CONTACT THE CITY OF ALEXANDRIA, DEPARTMENT OF TRANSPORTATION PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
10. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKING IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS.
11. 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:
 - A. MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM AND
 - B. SATURDAYS FROM 9 AM TO 6 PM.
 - C. NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS.
 - D. PILE DRIVING IS FURTHER RESTRICTED TO THE FOLLOWING HOURS:
MONDAY THROUGH FRIDAY FROM 9 AM TO 6 PM AND
SATURDAYS FROM 10 AM TO 4 PM.
12. TRAFFIC CONTROL PLANS ARE BASED ON THE VIRGINIA WORK AREA PROTECTION MANUAL TTC-16.2, TTC-23.2, TTC-28.2 & TTC-34.2 (2011 EDITION REVISION 2.1).

September 2019

Page 6H-5

Table 6H-2, Taper Length Criteria and Taper Length Chart

Type of Taper	Taper Length (L)
Merging	L= Minimum
Shifting	See table below ²
Shoulder	½ L Minimum
Two-Way Traffic	50 Feet Minimum, 100 Feet Maximum
Downstream	50 Feet Minimum, 100 Feet Maximum

L= Taper Length, W= Width of Offset, S= Posted Speed Limit

Posted Speed Limit (mph)	Width of Offset (Feet)				Remarks
	9	10	11	12	
≤ 25	95	105	115	125	L= S²W/60
30	135	150	165	180	*
35	185	205	225	245	*
40	240	270	295	320	*
45	405	450	495	540	L=SW
50	450	500	550	600	*
55	495	550	605	660	*
60	540	600	660	720	*
65	585	650	715	780	*
70	630	700	770	840	*

* Limited Access highways shall use a 1000' merging taper regardless of the posted speed.

Shifting Tapers - full lane width shifts on Limited Access Highways shall use a 750' shifting taper for posted speeds less than 65 mph and a 1000' shifting taper for posted speeds equal to or greater than 65 mph. For all other roadways ½ L should be used.²

Table 6H-3, Length of the Longitudinal Buffer Space¹

Posted Speed Limit (mph)	Distance (Feet)
≤ 20	115 – 120
25	155 – 165 ¹
30	200 – 210
35	250 – 260
40	305 – 325 ¹
45	360 – 380
50	425 – 445
55	500 – 530 ¹
60	570 – 600 ¹
65	645 – 675
70	730 – 760

1: Revision 1 – 4/1/2015; Revision 2 – 9/1/2019

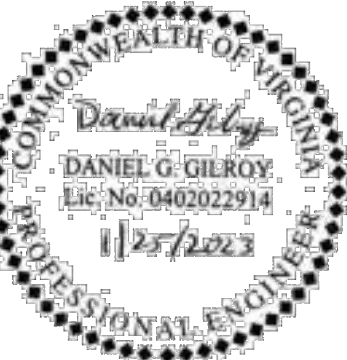
100% DESIGN



CITY OF ALEXANDRIA, VIRGINIA
DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

REVISIONS	DESCRIPTION
DATE	BY

ALEXANDRIA PROJECT NO.:	2104012
DATE OF PLAN ISSUANCE:	11-11-23
CONSULTANT PROJECT ID.:	11-11-23
DESIGNED BY:	MC DATE 01-25-23
DRAWN BY:	JUS DATE 01-25-23
CHECKED BY:	RP DATE 01-25-23
APPROVED BY:	DG DATE 01-25-23



MOT NOTES

C-701

SHEET
17 OF **24**
SCALE
NONE

SANITARY SEWER CAPACITY UPSIZING PROJECT – 1

Typical Traffic Control Outside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-16.2)

NOTES

- Standard: 1. On divided highways having a median wider than 8', right and left sign assemblies shall be required. Guidance: 2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less. 3. When closing a lane, a PCMS should be used in advance of the first warning sign if all of the left side signs cannot be installed. 4. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired. 5. All vehicles, equipment, workers, and their activities should be restricted to one side of the pavement. Standard: 6. Taper length (L) and channelizing device spacing shall be at the following: [Table 6H-3: Taper Length L and Channelizing Device Spacing] 7. Channelizing device spacing shall be at the following: [Table 6H-4: Channelizing Device Spacing] 8. An arrow board shall be used when a lane is closed. When more than one lane is closed, a separate arrow board shall be used for each closed lane (see Figure TTC-18). 9. The buffer space length shall be shown in Table 6H-3 on Page 6H-5 for the posted speed limit. A shadow vehicle with either a Type B or C arrow board operating in the caution mode, or at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew. When the posted speed limit is 45 mph or greater, a truck-mounted attenuator shall be used. 11. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or oscillating lights but can be used to supplement the amber rotating, flashing, or oscillating lights. 12. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed as needed. Option: 13. PTRS and their supporting signs may be used, see Sections 6E.99 and 6G.25. Long-term transverse rumble strips may be used in long-term situations, see Section 6F.99 and TTC-20. 14. The supplemental PTRS may be eliminated. 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019

Typical Traffic Control Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2)

NOTES

- Guidance: 1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph. 2. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger. 3. To maintain efficient traffic flow in a flagging operation on a two-lane roadway, the maximum time motorists should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07. Standard: 4. Portable Temporary Rumble Strips (PTRS) shall be used as noted in Section 6F.99. 5. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5). 6. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers). 7. Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6. 8. A shadow vehicle with at least one high intensity amber rotating, flashing, or oscillating light shall be parked 80'-120' in advance of the first work crew. Option: 9. A SLOW (W21LV10) sign may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic. Guidance: 9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the PTRS, should be readjusted at greater distances. 10. When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings). Standard: 11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08). Option: 12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less. 13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6F). Standard: 14. When used, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized. 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019

Typical Traffic Control Lane Closure Operation in an Intersection (Figure TTC-28.2)

NOTES

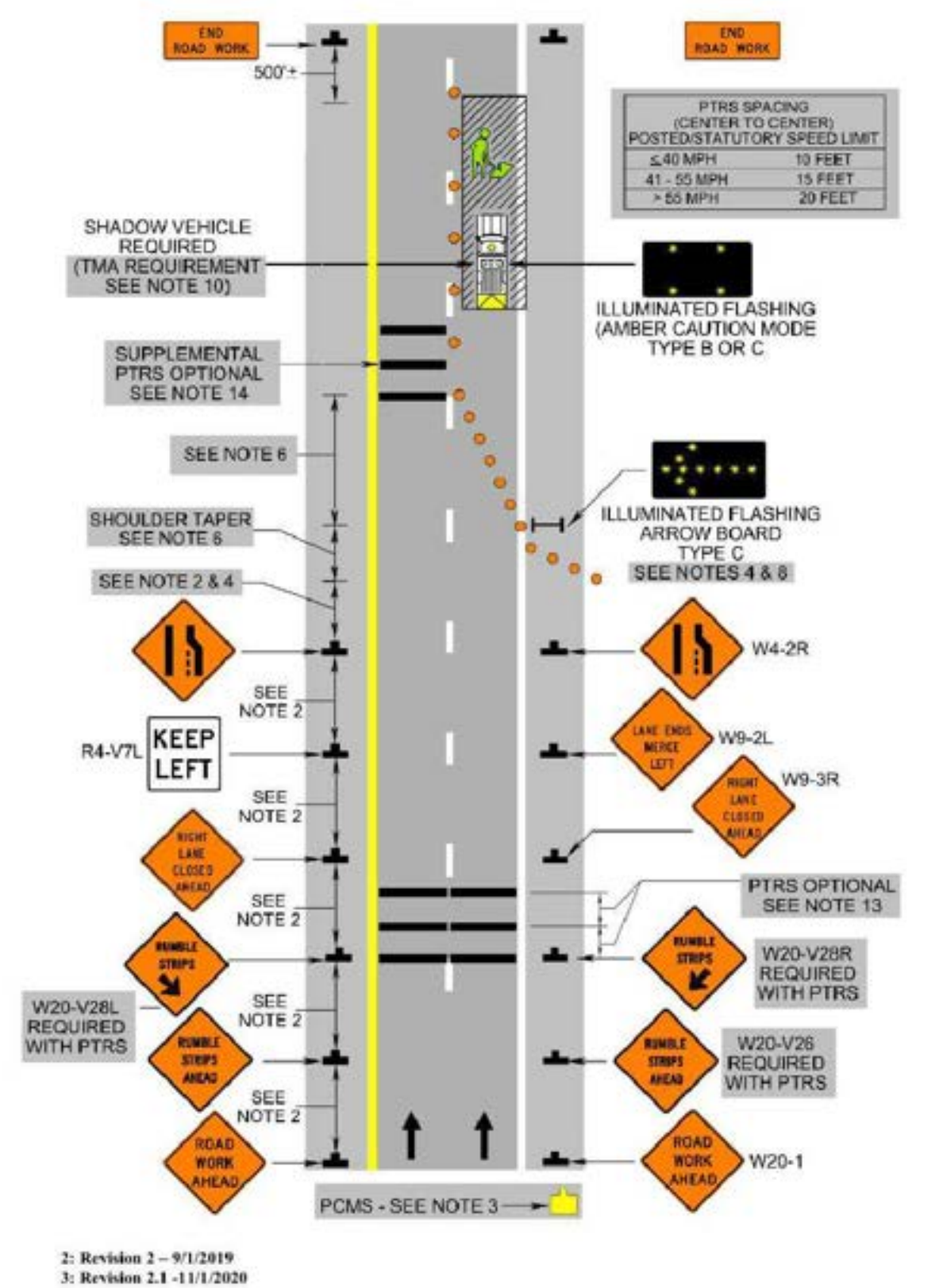
- Guidance: 1. The control of traffic through the intersection in order of preference should be: a. Obtain the services of law enforcement personnel. b. Detour the effective routes to other roads and streets as approved and directed by the District Traffic Engineer. c. Place a state certified flagger on each leg of the intersection controlling a single lane of traffic. Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs see Figure TTC-34. 2. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph. 3. To maintain efficient traffic flow in a flagging operation on a two-lane roadway the maximum time motorist should be stopped at a flagger station is 8 minutes for high volume roadways (average daily traffic of 500 or more vehicles per day) to a maximum of 12 minutes for low volume roadways (less than 500 vehicles per day). For additional information see Section 6E.07. Standard: 4. Channelizing device spacing shall be on 20' centers or less. 5. PTRS shall be used as noted in Section 6F.99. Guidance: 6. If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber flashing or oscillating light should be parked 80'-120' in advance of the first work crew. Standard: 7. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used. Guidance: 8. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36. Support: 9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles. 1: Revision 1 - 4/1/2015 2: Revision 2 - 9/1/2019

Typical Traffic Control Street Closure Operation with Detour (Figure TTC-34.2)

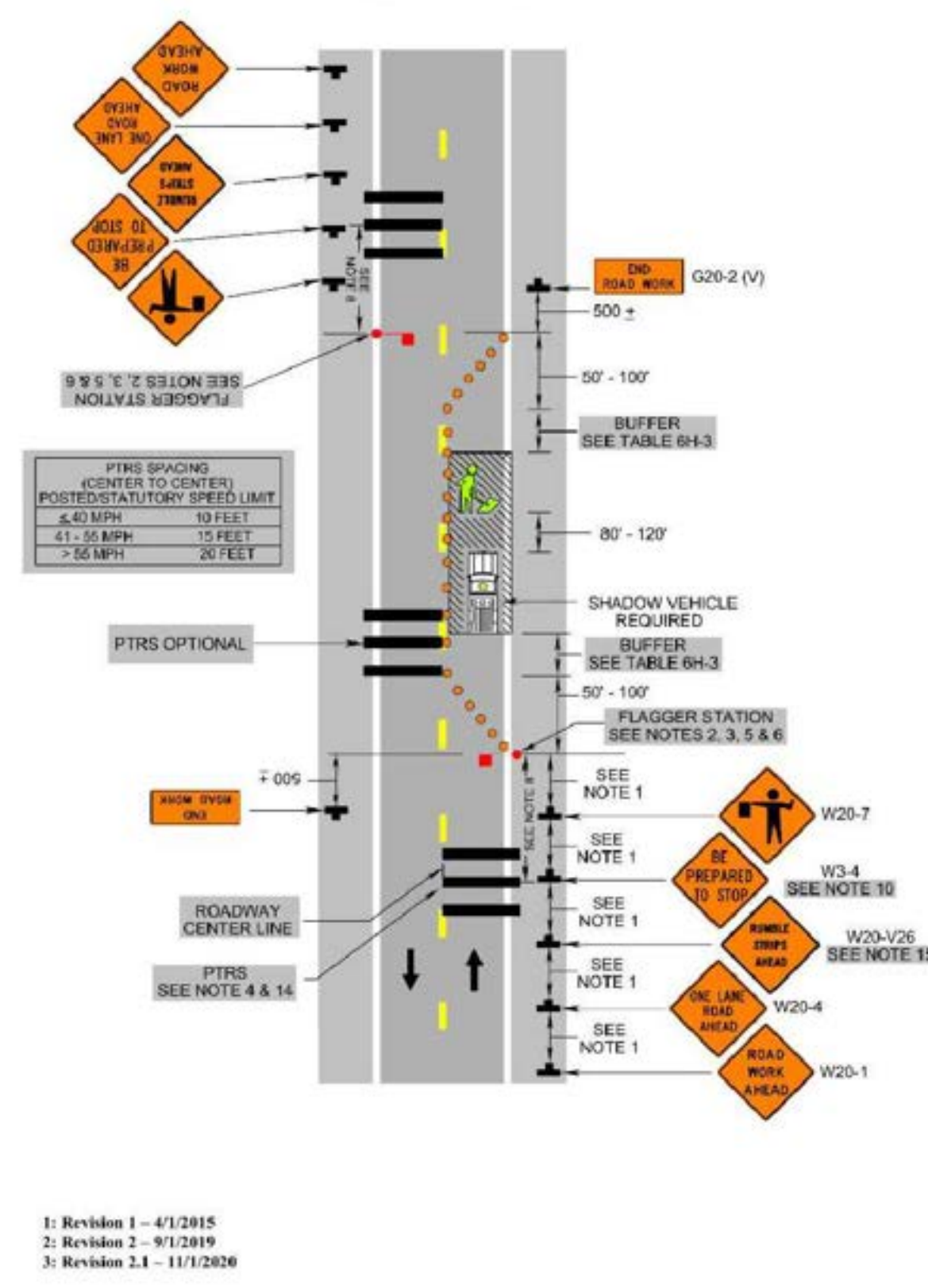
NOTES

- Guidance: 1. This plan should be used for streets without posted route numbers. 2. On multi-lane streets, Detour signs with an Advance Turn Arrow should be used in advance of a turn. 3. Sign spacing distance should be 225'-275' where the posted speed limit is 30 to 35 mph, and 100'-200' where the posted speed is 25 mph or less. 4. If the road is opened for a significant distance beyond the intersection and/or there are significant origin/destination points beyond the intersection, the ROAD CLOSED (R11-2) and Detour Arrow (M4-10) signs on Type 3 Barricades should be located at the corners of intersecting closed roadway or the traveled way. 5. In urban areas, signs on an eight foot Type 3 barricade, should not cover more than half of the top two rails. On a four foot Type 3 barricade, a sign should not cover more than the top rail. When used alone on a four foot Type 3 barricade, the ROAD CLOSED (R11-1) sign or the ROAD CLOSED TO THRU TRAFFIC (R11-4) sign should be installed above the Type 3 barricade. Option: 6. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. 7. Flashing warning lights may be used on Type 3 Barricades. 8. Detour signs may be located on the far side of intersections. A Detour sign with an advance arrow may be used in advance of a turn. 9. A Street Name (M4-VP1a) plaque may be mounted with the Detour sign. The Street Name plaque may be either white on green or black on orange. Standard: 10. When used, the Street Name plaque shall be placed above the Detour sign. Support: 11. See Chapter 6I for additional information on incident management traffic control. 2: Revision 2 - 9/1/2019

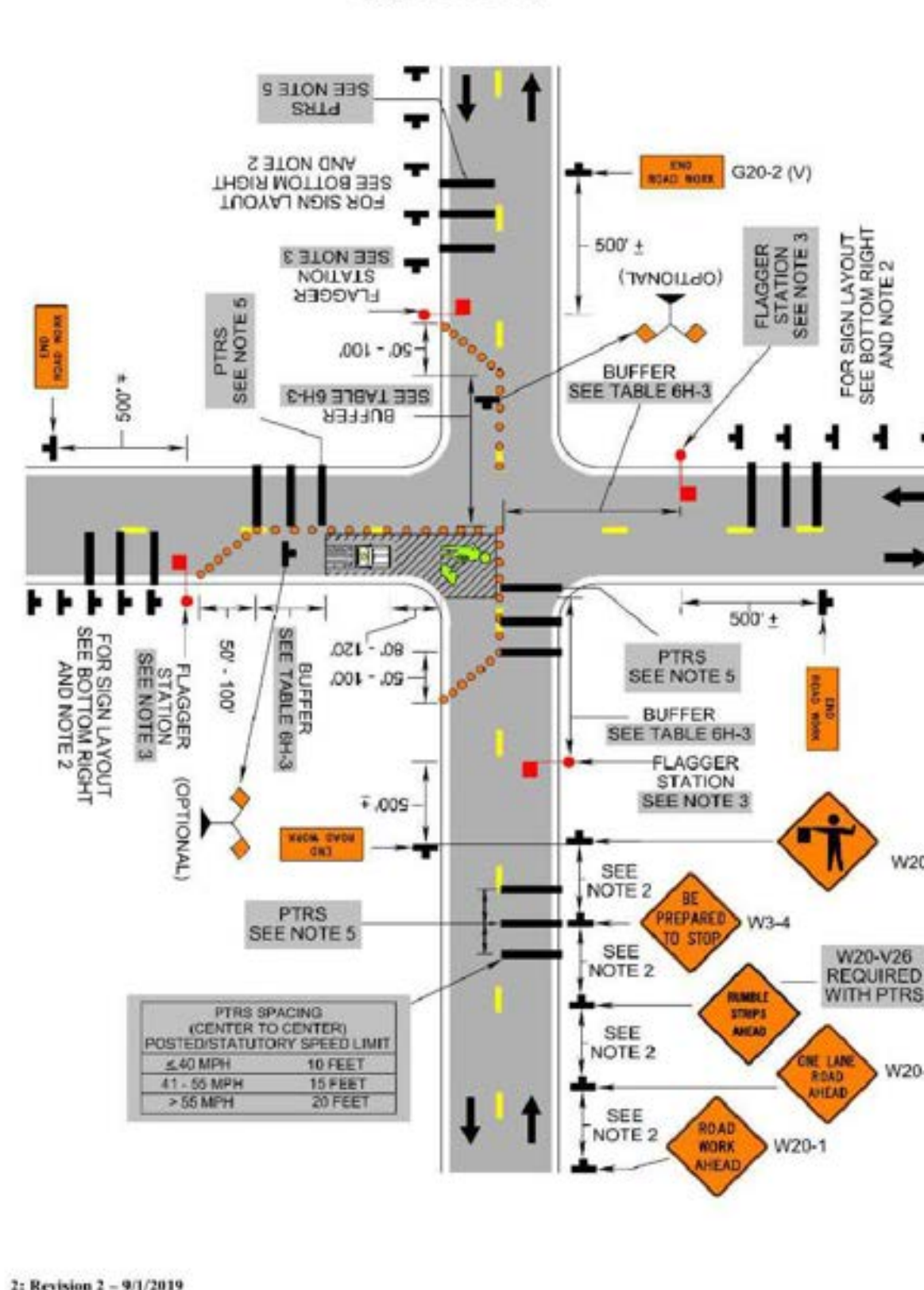
Outside Lane Closure Operation on a Four-Lane Roadway (Figure TTC-16.2)



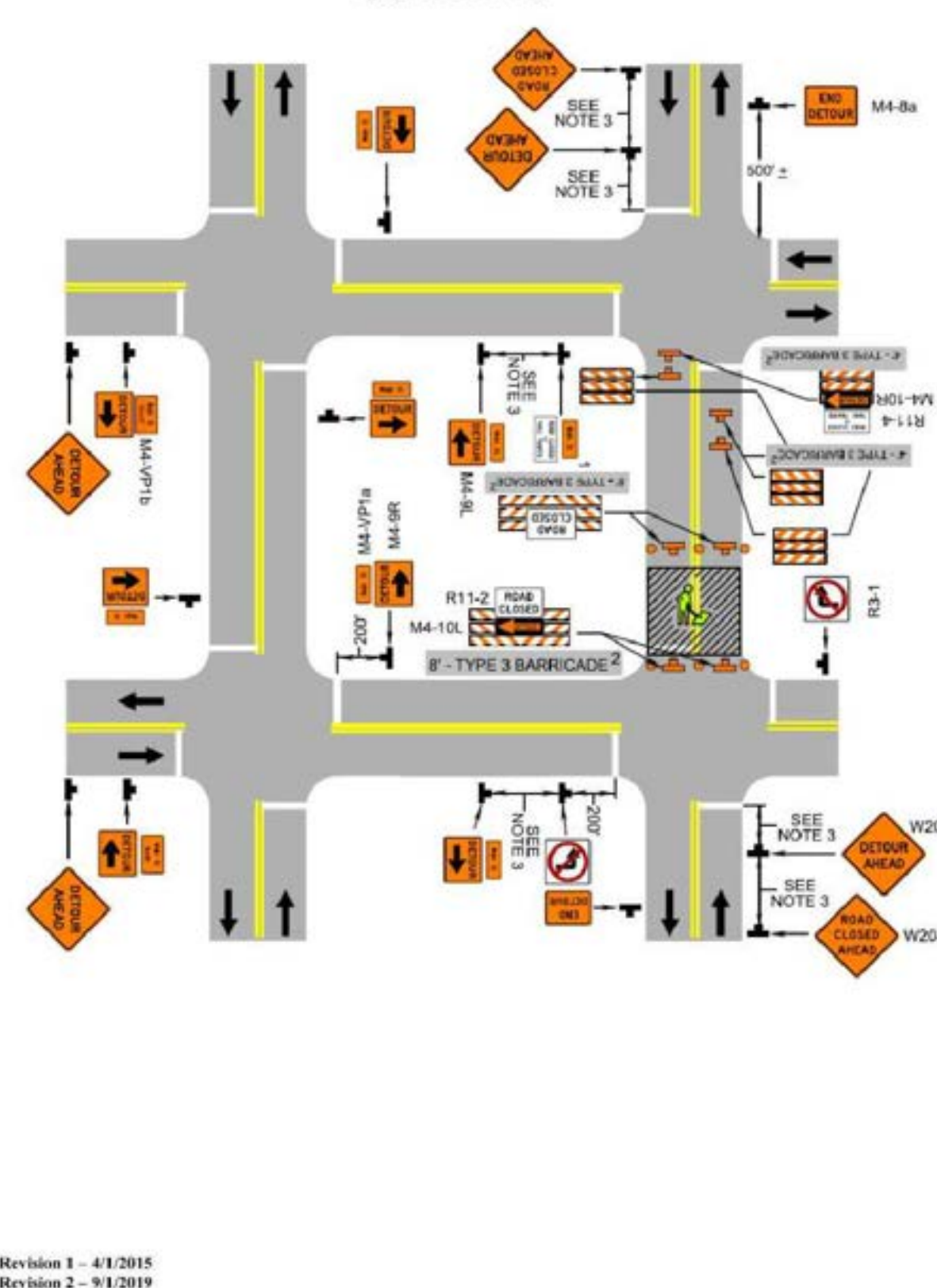
Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.2)



Lane Closure Operation in an Intersection (Figure TTC-28.2)



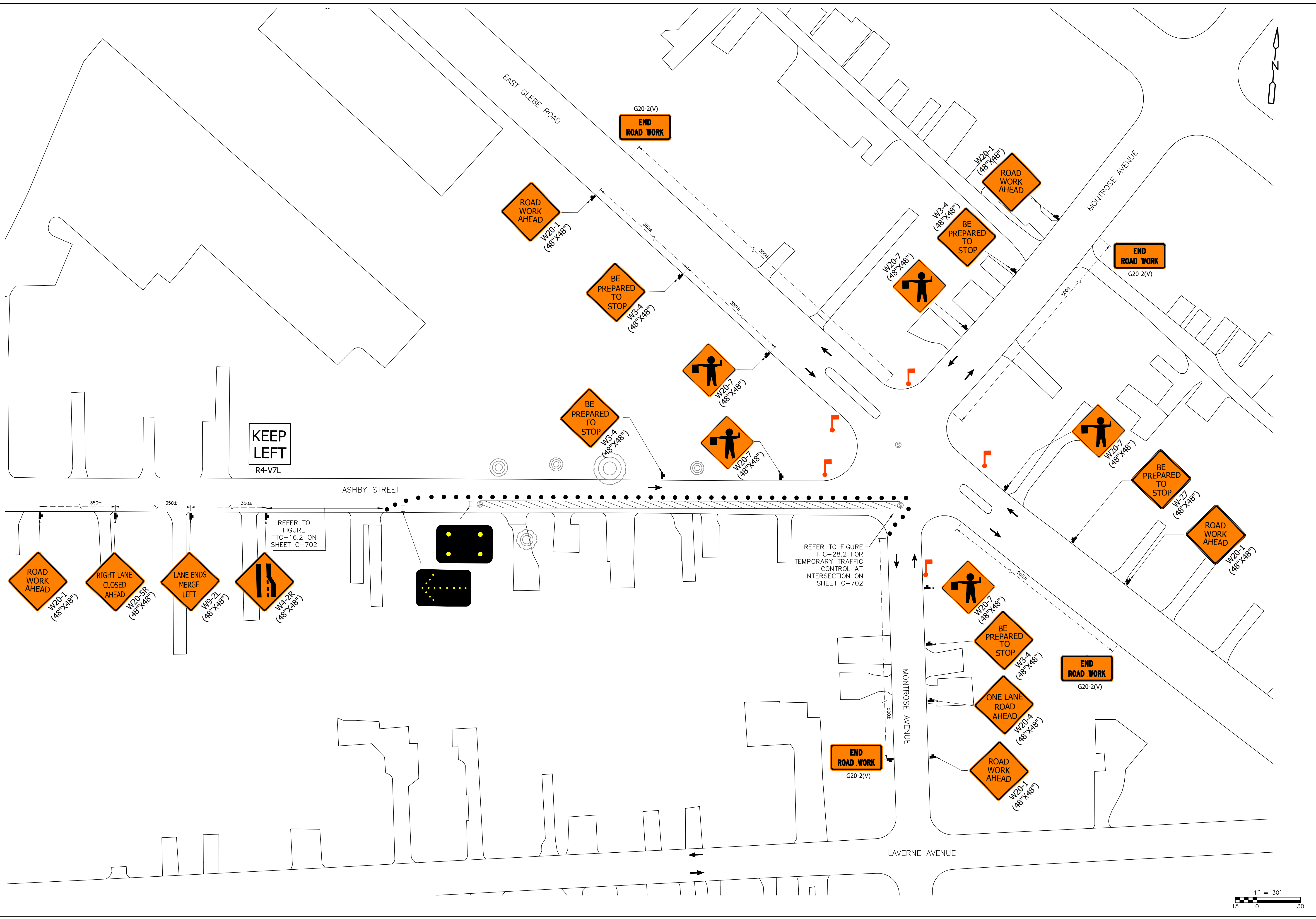
Street Closure Operation with Detour (Figure TTC-34.2)



100% DESIGN CITY OF ALEXANDRIA, VIRGINIA DEPARTMENT OF PROJECT IMPLEMENTATION 301 KING STREET ALEXANDRIA, VIRGINIA 22314 REVISIONS DATE DESCRIPTION ALEXANDRIA PROJECT NO.: 2104012 DATE OF PLAN ISSUANCE: CONSULTANT PROJECT ID: DESIGNED BY: MC DATE 01-25-23 DRAWN BY: JUS DATE 01-25-23 CHECKED BY: RP DATE 01-25-23 APPROVED BY: DG DATE 01-25-23 SANITARY SEWER CAPACITY UPSIZING PROJECT - 1 MOT DETAILS C-702 SHEET 18 OF 24 SCALE NONE

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C:\pwwork\j_sosa\j\d3715142\C703SSOU.dwg PLOTTED: 5/24/2023 3:20:25 PM BY SOSA, JAVIER



SANITARY SEWER CAPACITY UPSIZING PROJECT — 1



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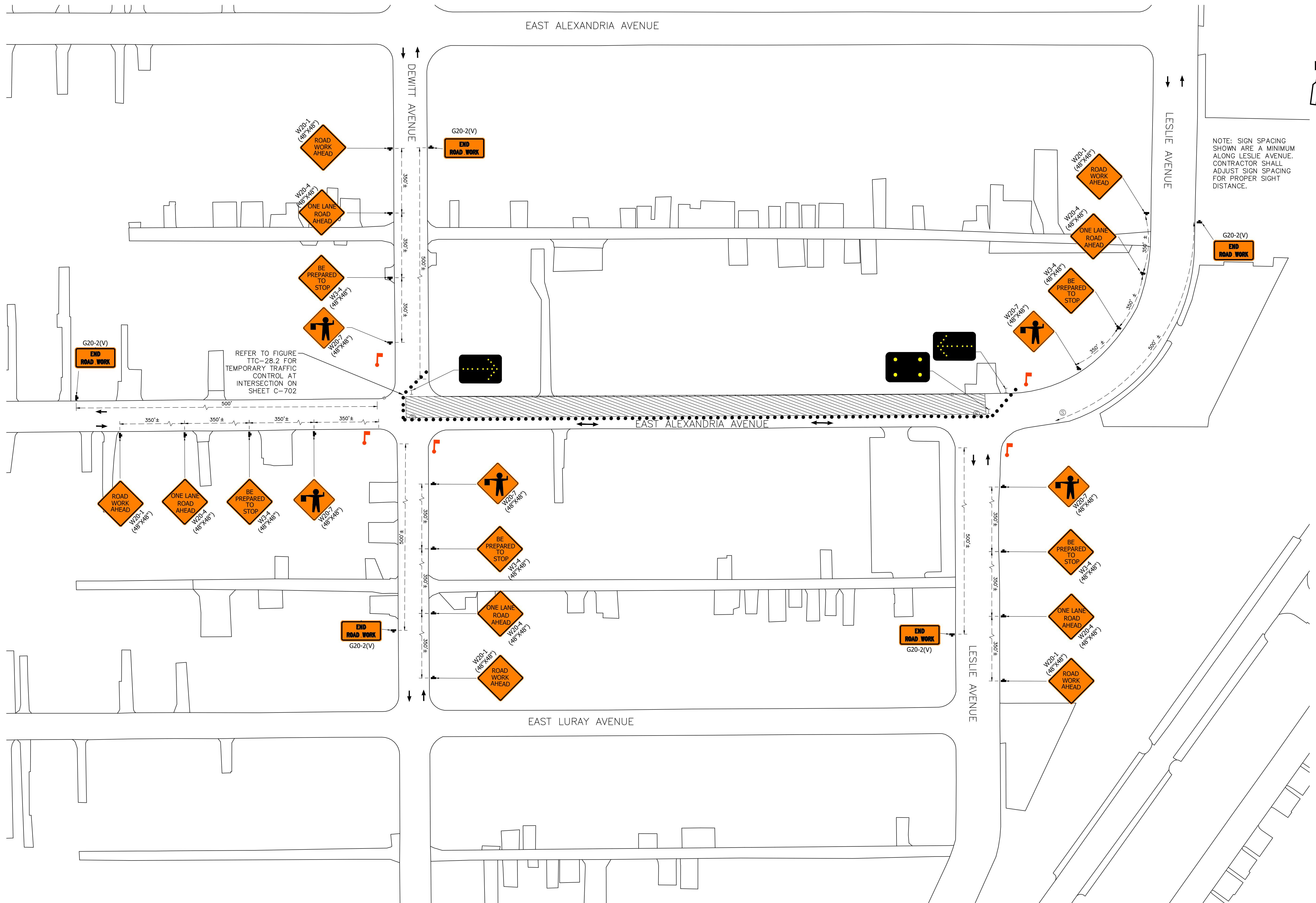
**ASHBY STREET
 TRAFFIC CONTROL
 PLAN**

C-703

SHEET
19 OF 24

SCALE
 AS SHOWN

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REFER TO FIGURE
TTC-28.2 FOR
TEMPORARY TRAFFIC
CONTROL AT
INTERSECTION ON
SHEET C-702

NOTE: SIGN SPACING
SHOWN ARE A MINIMUM
ALONG LESLIE AVENUE.
CONTRACTOR SHALL
ADJUST SIGN SPACING
FOR PROPER SIGHT
DISTANCE.

SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



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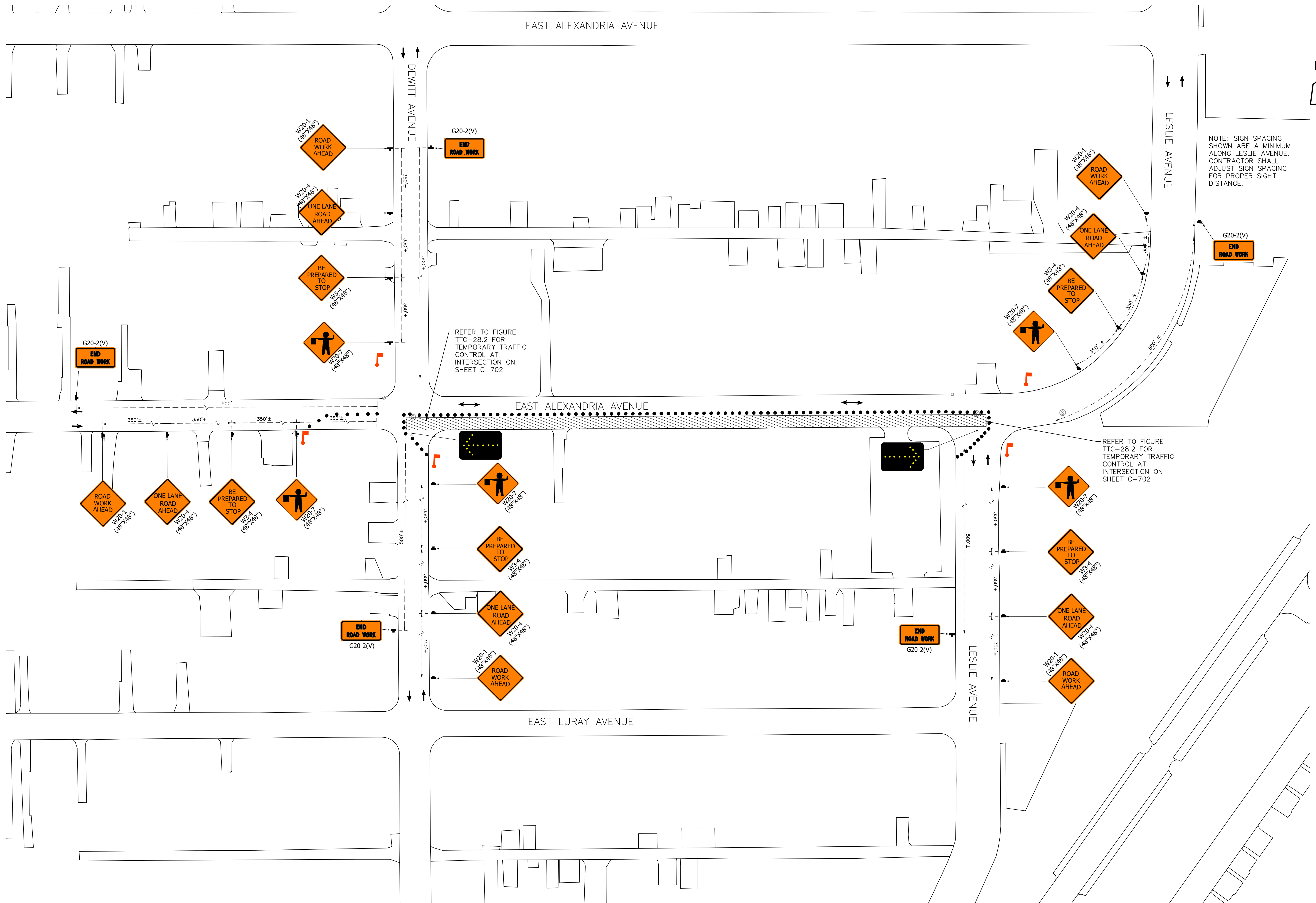


ALEXANDRIA AVENUE
TRAFFIC CONTROL
PLAN PHASE 1

C-704

SHEET
20 OF 24
SCALE
AS SHOWN

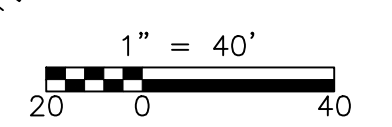
C:\pwwork\ssosaj\d3715142\C705SSOU.dwg PLOTTED: 5/24/2023 3:23:15 PM BY SOSA, JAVIER



NOTE: SIGN SPACING SHOWN ARE A MINIMUM ALONG LESLIE AVENUE. CONTRACTOR SHALL ADJUST SIGN SPACING FOR PROPER SIGHT DISTANCE.

REFER TO FIGURE TTC-28.2 FOR TEMPORARY TRAFFIC CONTROL AT INTERSECTION ON SHEET C-702

REFER TO FIGURE TTC-28.2 FOR TEMPORARY TRAFFIC CONTROL AT INTERSECTION ON SHEET C-702



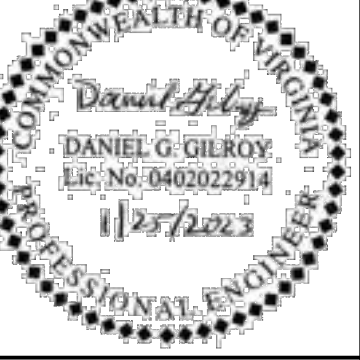
SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



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ALEXANDRIA AVENUE
TRAFFIC CONTROL
PLAN PHASE II

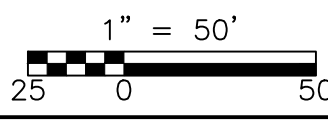
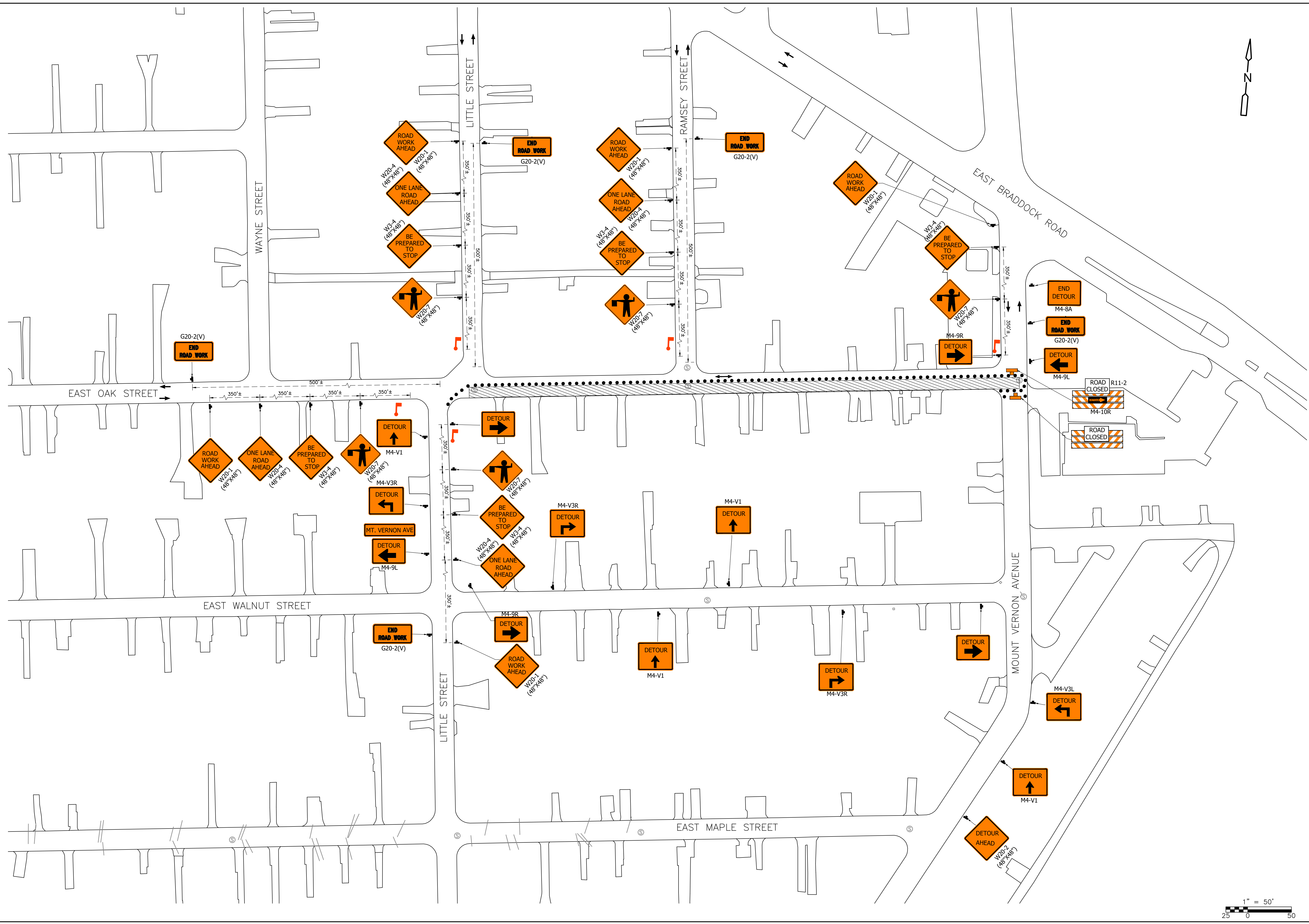
C-705

SHEET
21 OF 24

SCALE
AS SHOWN

100% DESIGN

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SANITARY SEWER CAPACITY UPSIZING PROJECT — 1



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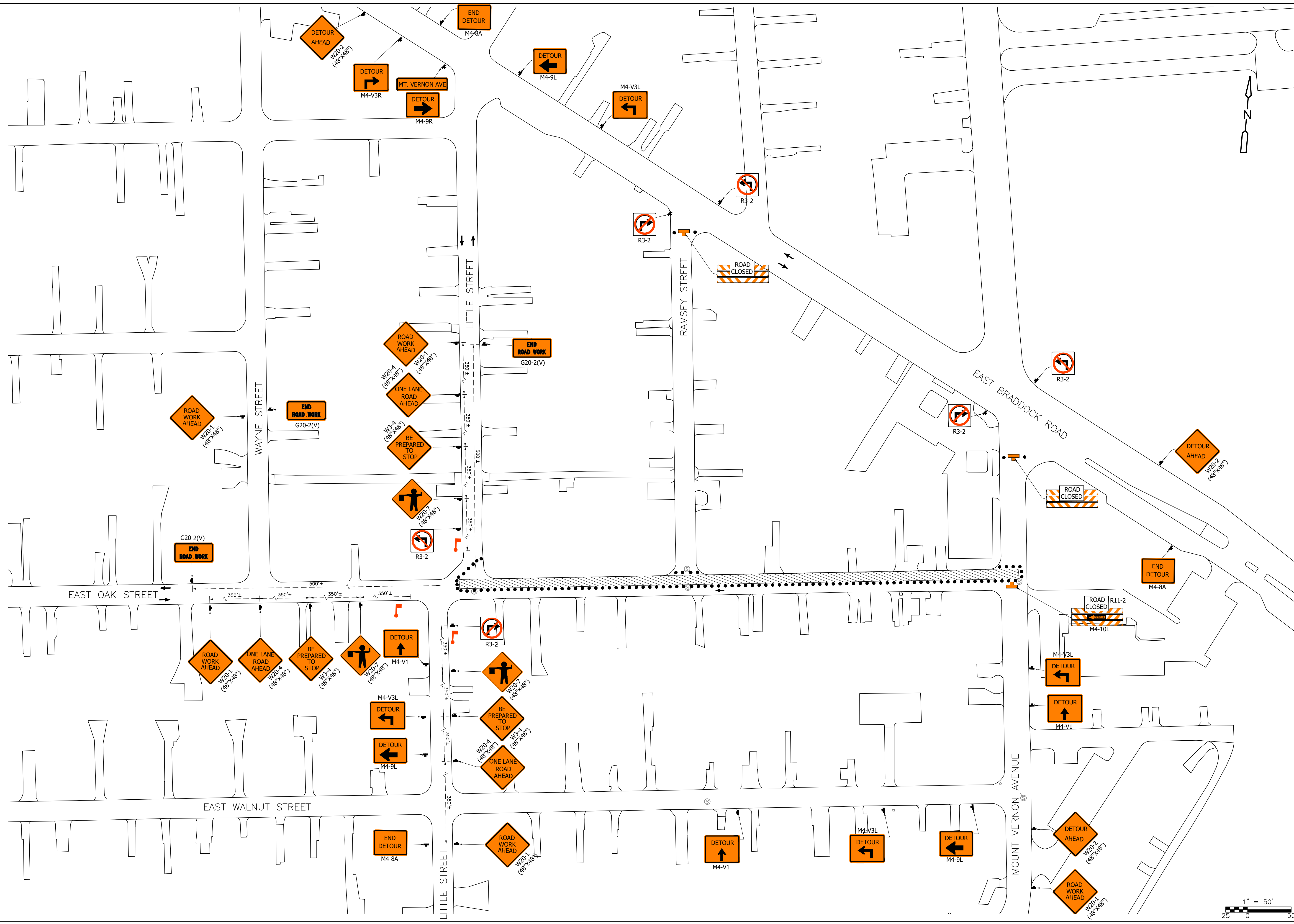


**EAST OAK STREET
 TRAFFIC CONTROL
 PLAN PHASE 1**

C-706
 SHEET
22 OF 24
 SCALE
 AS SHOWN

100% DESIGN

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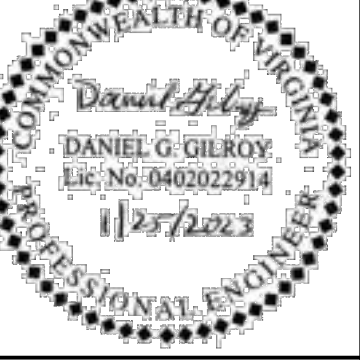
SANITARY SEWER CAPACITY UPSIZING PROJECT - 1



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DEPARTMENT OF PROJECT IMPLEMENTATION
301 KING STREET
ALEXANDRIA, VIRGINIA 22314

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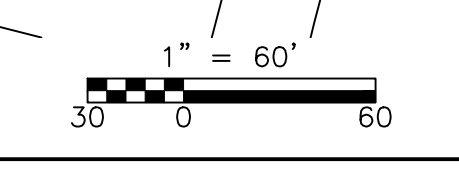
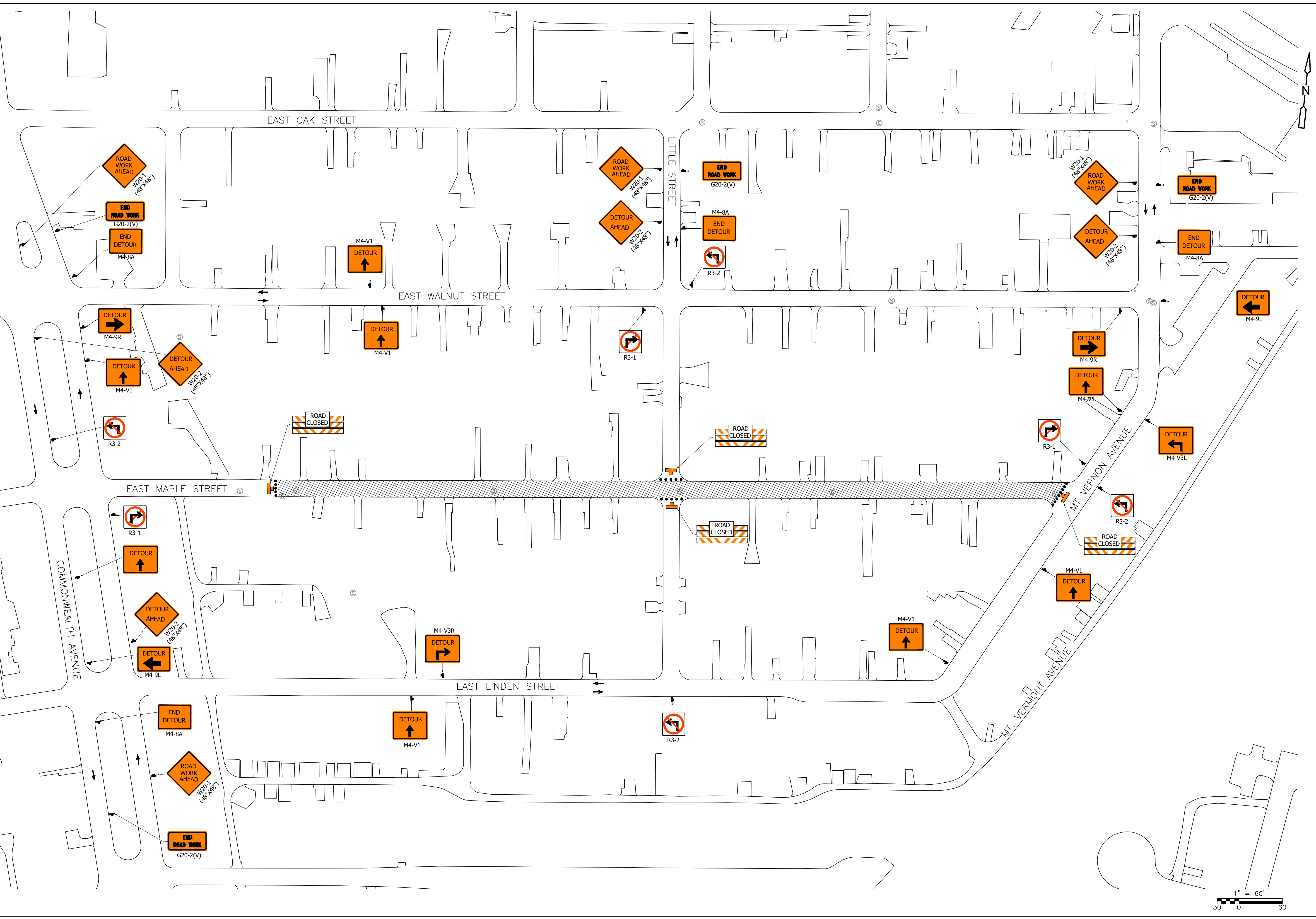
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 APPROVED BY: DG DATE 01-25-23



EAST OAK STREET
TRAFFIC CONTROL
PLAN PHASE II

C-707
SHEET
23 OF 24
SCALE
AS SHOWN

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SANITARY SEWER CAPACITY UPSIZING PROJECT — 1



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APPROVED BY: DG DATE 01-25-23



**EAST MAPLE STREET
TRAFFIC CONTROL
PLAN**

C-708
SHEET
24 OF 24
SCALE
AS SHOWN

100% DESIGN