

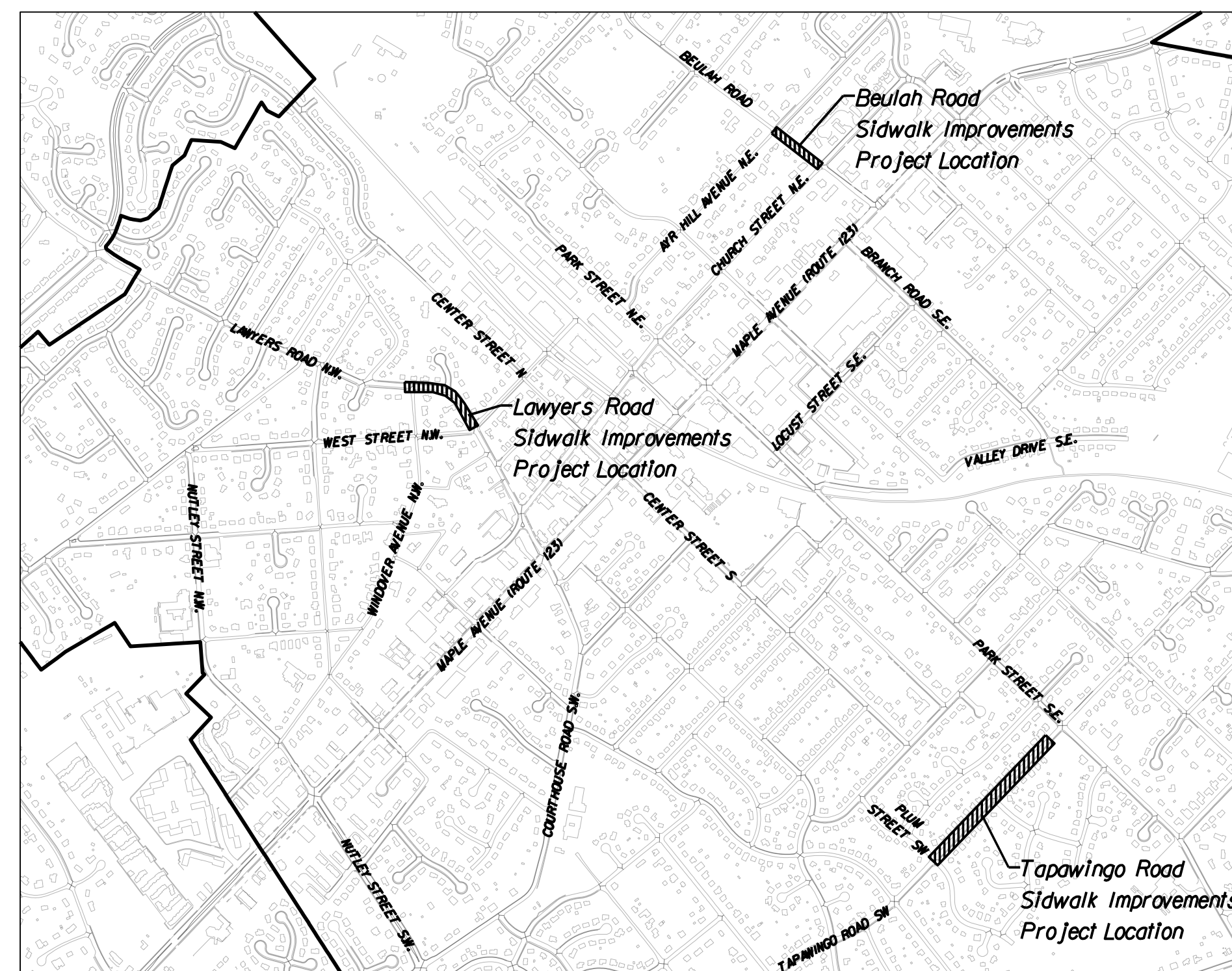
| GRADING GENERAL NOTES                |  |
|--------------------------------------|--|
| 1                                    | Earthwork quantities on this project are based on anticipated settlement and may require adjusting during construction.  |
| DRAINAGE GENERAL NOTES               |  |
| 1                                    | When Town of Vienna Curb and Gutter (see Town's detail Sheet 2A) is specified on a radius (such as at a street intersection), the Town may approve a change in the cross slope of the gutter to facilitate proper drainage.  |
| PAVEMENT GENERAL NOTES               |  |
| 1                                    | The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.   |
| INCIDENTALS GENERAL NOTES            |  |
| 1                                    | Certain trees shall be preserved as noted on plans or as directed by the Town.   |
| 2                                    | When standard slope roundoffs would damage trees, bushes, or other desirable vegetation, they shall be omitted when so ordered by the Town.  |
| 3                                    | Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Town.  |
| 4                                    | The following outside sources, under contract with the Town, have provided information on this project:<br>Roadway Design      Whitman, Reardon & Associates, LLP<br>Survey                      Rice Associates<br>Utility Designation      Rice Associates<br>If questions arise during construction, please contact the Town. DO NOT CONTACT THE OUTSIDE SOURCES.   |
| 5                                    | All electronic plan assemblies will include the construction plans in one format: .pdf files. Only the .pdf files will be considered as part of the official plan assembly.  |
| 6                                    | Removal of concrete ditch and 4" corrugated plastic pipes at 112 Tapawingo Road SE shall be included in the cost of regular excavation.  |
| MAINTENANCE OF TRAFFIC GENERAL NOTES |  |
| 1                                    | The Contractor shall develop and provide a Maintenance of Traffic plan to be submitted and approved by the Town. The Contractor shall coordinate with the Town on allowable work hours. The plan shall be in accordance with the Virginia Work Area Protection Manual 2011 Revision 2.1. The Contractor should refer to the following standards: TTC-4.2 - STATIONARY OPERATION ON A SHOULDER<br>TTC-5.2 - SHOULDER OPERATION WITH MINOR ENCROACHMENT<br>TTC-23.2 - LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS<br>TTC-28.2 - LANE CLOSURE OPERATION IN AN INTERSECTION<br>TTC-35.1 - SIDEWALK CLOSURE AND BYPASS SIDEWALK OPERATIONS<br>TTC-53.0 - SIGNING FOR PROJECT LIMITS |
| 2                                    | The Contractor shall maintain access to entrances and safe passage for pedestrians and bicyclists during construction where existing facilities are present.   |
| 3                                    | A minimum of one traffic lane shall open to traffic at all times at each sidewalk location   |
| 4                                    | When Town of Vienna police are required to assist in maintaining traffic, the Contractor shall contact the Town and provide a minimum of 5 days advance notice. The Contractor shall notify Town police of any cancellation at least 24 hours in advance.  |
| 5                                    | Pavement markings in conflict with the lane configurations during construction shall be covered with non-reflective removable black tape, and restriped as necessary.  |
| 6                                    | Contractor shall ensure positive drainage for the duration of the project.   |
| 7                                    | Contractor shall schedule all phases of construction in such a manner that water, sewer, cable, power, gas, and any overhanging utility and any underground utility services will not be interrupted. The cost of any temporary connection, in part or whole, shall be incidental to the construction.   |
| 8                                    | Disposal site and staging area locations shall be the responsibility of the Contractor. No work shall be performed until such sites have been accepted by the Town.  |
| 9                                    | At the conclusion of each workday, all areas excavated below the existing surface shall be backfilled with approved material for the safety and protection of the public.  |
| 10                                   | All traffic control devices and signs necessary for maintenance of traffic are to be installed, maintained and removed by the Contractor.  |
| UTILITIES GENERAL NOTES              |  |
| 1                                    | The utility information shown on these plans is taken from information provided by an underground utility designating and locating company and in some cases, from information received from the utility companies. The Town does not guarantee that the utility information shown on the plans is complete or accurate. The Contractor must verify the utility locations prior to construction.   |
| 2                                    | All existing underground utilities shall be marked in the field by Miss Utility prior to construction. The Contractor shall be responsible for scheduling the field marking of utilities with Miss Utility.<br>Miss Utility 1-800-552-7011 or 811 VAB11.com  |
| 3                                    | All existing underground utilities shall be physically located by the Contractor prior to the beginning of any construction in the vicinity of these utilities.  |
| TOWN OF VIENNA GENERAL NOTES         |  |
| 1                                    | A Pre-Construction meeting must be held prior to the start of construction. The Contractor shall contact the Town to schedule the Pre-Construction meeting.  |
| 2                                    | All construction generated debris must be hauled away by the Contractor.   |
| 3                                    | Prior to the removal of any Town trees (trees within the Right of Way), the Contractor shall contact the Town arborist to coordinate having the Town arborist onsite during all Town tree removal.   |
| 4                                    | Tree protection for any Town tree, if shown on the plan, must be installed prior to any work.  |
| 5                                    | Clearing, grubbing, tree removal, root pruning and tree protection shall be in accordance with VDOT Road and Bridge Specifications and the Town's PFM and Tree Preservation and Planting Guide and the Virginia Erosion and Sediment Control Handbook. The Contractor shall coordinate with the Town and property owners as directed by the Town prior to commencing any of these activities.  |
| 6                                    | All work shall be completed in accordance with the Town of Vienna Public Facilities Manual (latest revision), VDOT Road and Bridge Specifications (latest revision), VDOT Road and Bridge Standards (latest revision), the Manual on Uniform Traffic Control Devices (MUTCD, latest revision), and these construction drawings.  |



# TOWN OF VIENNA

## DEPARTMENT OF PUBLIC WORKS

### BEULAH ROAD LAWYERS ROAD NW TAPAWINGO ROAD SW SIDEWALK IMPROVEMENT PLANS



VICINITY MAP  
SCALE: 1"=1,000'

## CONSTRUCTION DRAWINGS

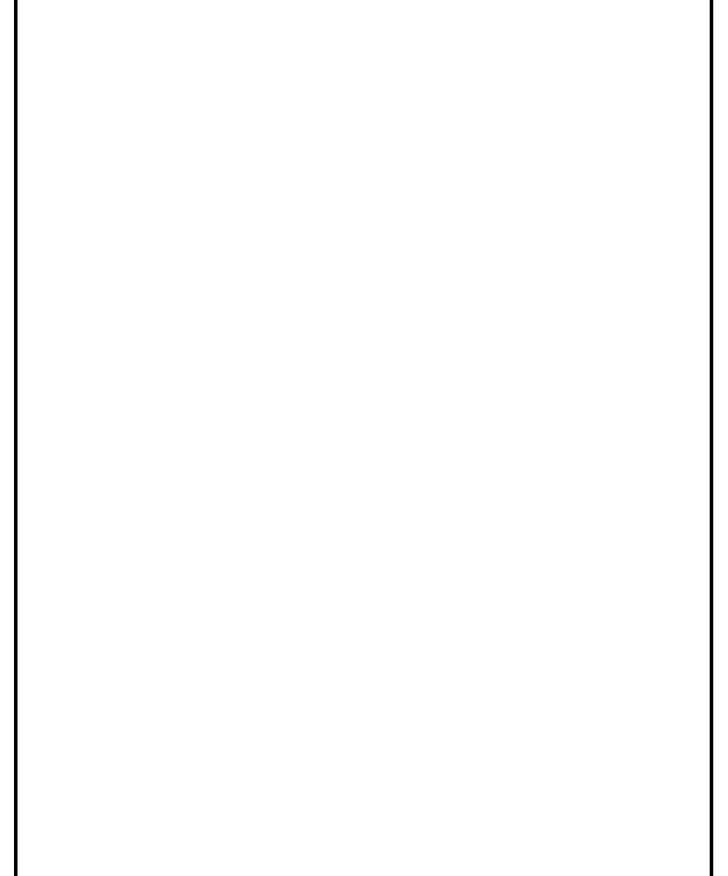
| SHEET INDEX  |   |
|--------------|---|
| SHEET NO.    | TITLE   |
| 1            | COVER SHEET   |
| 1A(1)        | SURVEY DATA INFORMATION                                   |
| 1A(2)        | ALIGNMENT DATA - BEULAH ROAD                              |
| 1A(3)        | ALIGNMENT DATA - LAWYERS ROAD NW                          |
| 1A(4)-1A(5)  | ALIGNMENT DATA - TAPAWINGO ROAD SW                        |
| 1B(1)        | EXISTING CONDITIONS AND DEMOLITION PLAN - BEULAH ROAD     |
| 1B(2)-1B(3)  | EXISTING CONDITIONS AND DEMOLITION PLAN - LAWYERS ROAD NW |
| 1B(4)-1B(6)  | EXISTING CONDITIONS AND DEMOLITION PLAN - TAPAWINGO SW    |
| 2A(1)        | TYPICAL SECTIONS - BEULAH ROAD                            |
| 2A(2)        | TYPICAL SECTIONS - LAWYERS ROAD NW                        |
| 2A(3)        | TYPICAL SECTIONS - TAPAWINGO ROAD SW                      |
| 2B           | TYPICAL DETAILS   |
| 2C(1)-2C(5)  | BEULAH ROAD SOLDIER PILE WALL PLAN AND DETAILS            |
| 2D(1)        | GEOMETRIC LAYOUT - BEULAH ROAD                            |
| 2D(2)        | GEOMETRIC LAYOUT - LAWYERS ROAD NW                        |
| 2D(3)        | GEOMETRIC LAYOUT - TAPAWINGO ROAD SW                      |
| 2E(1)        | CURB RAMP STAKING DETAILS - BEULAH ROAD                   |
| 2E(2)        | CURB RAMP STAKING DETAILS - LAWYERS ROAD NW               |
| 2E(3)        | CURB RAMP STAKING DETAILS - TAPAWINGO ROAD SW             |
| 3            | BEULAH ROAD PLAN AND PROFILE                              |
| 3A           | BEULAH ROAD RETAINING WALL PLAN AND PROFILE               |
| 4-5          | LAWYERS ROAD NW PLAN AND PROFILE                          |
| 4A           | LAWYERS ROAD NW RETAINING WALL PLAN AND PROFILE           |
| 6-8          | TAPAWINGO ROAD SW PLAN                                    |
| 8A           | TAPAWINGO ROAD SW RETAINING WALL PLAN AND PROFILE         |
| 9            | TAPAWINGO ROAD SW ENTRANCE PROFILES                       |
| 10(1)        | EROSION AND SEDIMENT CONTROL NARRATIVE AND DETAILS        |
| 10(2)        | BEULAH ROAD - EROSION AND SEDIMENT CONTROL PLAN           |
| 10(3)-10(4)  | LAWYERS ROAD NW - EROSION AND SEDIMENT CONTROL PLAN       |
| 10(5)-10(7)  | TAPAWINGO ROAD SW - EROSION AND SEDIMENT CONTROL PLAN     |
| XS-1 - XS-2  | BEULAH ROAD CROSS SECTIONS                                |
| XS-3 - XS-4  | LAWYERS ROAD CROSS SECTIONS                               |
| XS-5 - XS-10 | TAPAWINGO ROAD CROSS SECTIONS                             |

| REVISIONS |  |
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TOWN OF VIENNA, VA  
127 CENTER STREET SOUTH  
VIENNA, VA, 22180

TOWN OF VIENNA  
since 1890

BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK IMPROVEMENTS



Whitman Reardon & Associates  
Fairfax, Virginia  
ROADWAY ENGINEER

Whitman, Reardon & Associates, LLP  
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

COVER SHEET

SCALE: 1" = 1000'

|               |                        |
|---------------|------------------------|
| DATE: 07/2023 | SHEET: 1               |
| DES: JZ       | DRAWN: PS    CHECK: TL |



# SURVEY DATA INFORMATION SHEET

## GENERAL NOTES:

- PROPERTY LINES SHOWN ON THIS SURVEY ARE A COMPILATION OF DEEDS AND PLATS OF RECORD, SURVEYS BY OTHERS, AND LIMITED MONUMENT TIES; AND ARE NOT THE RESULT OF A FIELD RUN BOUNDARY SURVEY.
- NO TITLE REPORT HAS BEEN FURNISHED AND NOT ALL EASEMENTS AND/OR ENCUMBRANCES ARE SHOWN ON THE SURVEY.
- THE HORIZONTAL DATUM IS VIRGINIA COORDINATE SYSTEM 83 (NORTH ZONE), AND THE VERTICAL DATUM IS NAVD88, BOTH ESTABLISHED BY GPS OBSERVATIONS.
- THE CONTOUR INTERVAL IS ONE (1) FOOT.
- THE HORIZONTAL AND VERTICAL UNIT OF MEASUREMENT IS THE U.S. SURVEY FOOT.
- THIS SURVEY WAS PREPARED FOR:

WHITMAN, REQUARDT & ASSOCIATES, LLP  
2700 FAIR LAKES CIRCLE, SUITE 300  
FAIRFAX, VA 22033.

## UTILITY NOTES:

- UTILITIES SHOWN HEREIN ARE ACCORDANCE WITH AMERICAN SOCIETY OF CIVIL ENGINEERS' DOCUMENT ASCE 38-02, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- UTILITIES DEPICTED ACCORDING TO UTILITY RECORDS (DATUR) ARE QUALITY LEVEL "C" OR "D", AND LABELED "DATUR QL-C" OR "QL-D"
- ALL UTILITIES DEPICTED IN THIS FILE ARE QUALITY LEVEL "B" UNLESS OTHERWISE NOTED.
- UTILITY SIZE AND TYPE FOR QUALITY LEVEL "B" DEPICTIONS ARE DETERMINED THROUGH AVAILABLE UTILITY OWNER INFORMATION. UTILITIES LABELED AS UNKNOWN HAVE NO CORRELATED RECORDS OR VISIBLE APPURTENANCES TO DETERMINE FUNCTION OR TYPE.
- UTILITY MAPPING WAS COMPLETED ON 08/15/2022. THERE MAY EXIST UTILITIES UNABLE TO BE ELECTROMAGNETICALLY TONED OR DETECTED BY SUBSURFACE UTILITY EQUIPMENT. UTILITIES MAY HAVE BEEN CHANGED OR ADDED AFTER THIS DATE.
- RELIANCE UPON THIS DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION.
- WGL RECORDS INDICATE GAS BEING LOCATED AT THE INTERSECTION OF A/R HILL AVE NE & BEULAH ROAD, RA WAS UNABLE TO INDUCE ELECTROMAGNETIC SIGNAL BY DIRECT OR INDIRECT METHODS.
- SUBSURFACE UTILITIES SHOWN HEREON WERE PERFORMED UNDER THE DIRECT SUPERVISION OF TIMOTHY EDWARD PAYNE, LS, 403003090 AND ARE BASED ON A CURRENT FIELD INVESTIGATION OF UNDERGROUND UTILITIES. THE DESIGNATION MARKS WERE FIELD LOCATED USING RTK GPS BASED ON EXISTING GROUND CONTROL.

## Utility Owners

Cox Communications  
3080 Centreville Rd.  
Herndon, VA 20171  
Joshua Arnold  
(703) 480-5157  
Joshua.Arnold@cox.com  
<https://facilitymaprequest.cox.com/>

Dominion Power  
Andy Brooks  
701 E. Cary St.  
Richmond, VA 23218  
(804) 771-3655  
andrew.j.brooks@dominionenergy.com  
facility.locate.request@dominionenergy.com

Summit/G  
22375 Broderick Dr., Suite 165  
Dulles, VA 20166  
Steve Ragland  
(703) 376-3700  
sragland@summitg.com

Vienna Water and Sewer  
127 Center Street S  
Vienna, VA 22180  
Jennifer Sigler  
(703) 255-6382  
jennifer.sigler@viennava.gov

Verizon / Bell Atlantic  
20730 Ashburn Rd.  
Ashburn, VA 20147  
Garry Walker  
(703) 694-6477  
garry.n.walker@verizon.com

WGL  
6801 Industrial Road  
Springfield, VA 22151  
Reggie Dyer  
(703) 750-4335  
rdyer@washgas.com

## SURVEYOR'S CERTIFICATION

THIS TOPOGRAPHIC AND LIMITED PROPERTY SURVEY OF A PORTION OF BEULAH ROAD WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF WILLIAM G. LIPPY, JR. FROM A GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED BETWEEN THE DATES OF SEPTEMBER 1 AND SEPTEMBER 30, 2022 AND SUPPLEMENTED MAY 18, 2023; AND THAT THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

## Planimetric Legend

- Property Corner
- Tree
- Sign

## Abbreviations

|       |                 |
|-------|-----------------|
| Conc. | Concrete        |
| D.B.  | Deed Book       |
| D/W   | Driveway        |
| Esmt. | Easement        |
| E.x.  | Existing        |
| Hcr   | Handicap Ramp   |
| lpf   | Iron Pipe Found |
| lrf   | Iron Rod Found  |
| Ped.  | Pedestrian      |
| Pg.   | Page            |
| R/C   | Rebar With Cap  |
| Rte.  | Route           |
| S/W   | Sidewalk        |
| TM    | Tax Map         |
| Util. | Utility         |
| w/    | With            |

## UTILITY LEGEND

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>Electric Box</li> <li>Electric Guy Pole</li> <li>Electric Ground Light</li> <li>Electric Guy Wire</li> <li>Electric Hand Hole</li> <li>Electric Meter</li> <li>Electric Manhole</li> <li>Electric Marker Post</li> <li>Electric Pedestal</li> <li>Electric Stub</li> <li>Electric Power Pole</li> <li>Electric Power Riser Pole</li> <li>Lamp Post</li> <li>Electric Luminaire</li> <li>End of Information (All Utilities)</li> <li>Fire Hydrant</li> <li>Fiber Optic Hand Hole</li> <li>Fiber Optic Marker</li> <li>Fiber Optic Manhole</li> <li>Fiber Optic Pedestal</li> <li>Gas Meter</li> <li>Gas Manhole</li> <li>Gas Marker Post</li> <li>Gas Monitoring Well</li> <li>Gas Stub</li> <li>Gas Test Station</li> <li>Gas Valve</li> <li>Gas Vent</li> <li>Gas Well</li> <li>Sanitary Air Release Valve</li> <li>Sanitary Flow Arrow</li> <li>Sanitary Stub</li> <li>Sewer Clean Out</li> <li>Sanitary Force Main Valve</li> <li>Sanitary Marker Post</li> <li>Sanitary Manhole</li> <li>Sewer Vent Pipe</li> <li>Unknown Clean Out</li> <li>Unknown Hand Hole</li> <li>Unknown Manhole</li> </ul> | <ul style="list-style-type: none"> <li>Telephone Booth</li> <li>Telephone Guy Pole</li> <li>Telephone Guy Wire</li> <li>Test Holes (All Utilities)</li> <li>Telephone Cell Tower</li> <li>Telephone Hand Hole</li> <li>Telephone Manhole</li> <li>Telephone Marker Post</li> <li>Telephone Pole</li> <li>Telephone Pedestal</li> <li>Telephone Riser Pole</li> <li>Television Satellite Dish</li> <li>Tower Anchor</li> <li>Traffic Camera Pole</li> <li>Traffic Control Hand Hole</li> <li>Traffic Control Manhole</li> <li>Traffic Control Guy Wire</li> <li>Traffic Control Pedestal</li> <li>Traffic Signal Guy Pole</li> <li>Traffic Signal Pole</li> <li>Traffic Signal Pole w/Luminaire</li> <li>Television Stub</li> <li>Television Hand Hole</li> <li>Television Manhole</li> <li>Television Marker Post</li> <li>Television Pedestal</li> <li>Television Stub</li> <li>Water Blow Off</li> <li>Water Well</li> <li>Water Meter</li> <li>Water Manhole</li> <li>Water Marker Post</li> <li>Water Spigot</li> <li>Water Slamese Connection</li> <li>Water Stub</li> <li>Water Valve</li> <li>Water Post Inspection Valve</li> <li>Water Irrigation Valve</li> <li>Water Steam Manhole</li> <li>Water Steam Vent Pipe</li> </ul> |
|---|---|

|           |   |
|-----------|---|
| CAFO      | Fiber Optic Cable Television                  |
| CHEM      | Chemical Line (above or below ground)         |
| FO Duct   | Underground Fiber Optic Duct                  |
| FUEL      | Fuel Line (above or below ground)             |
| G         | Gas Line *                                    |
| G Duct    | Gas Line Duct                                 |
| SAW       | Gravity Sewer *                               |
| SFM       | Sanitary Force Main *                         |
| TCFO      | Traffic Control Fiber Optic                   |
| T/FO      | Telephone Fiber Optic                         |
| FO        | Underground Fiber Optic                       |
| Unk       | Unknown Utility Line                          |
| E         | Underground Power Cable                       |
| E Duct    | Underground Power Cable Duct                  |
| T/Tg      | Underground Telephone Cable                   |
| T/Tg Duct | Underground Telephone Cable Duct              |
| TC        | Underground Traffic Control                   |
| TC Duct   | Underground Traffic Control Duct              |
| CATV      | Underground Television Cable                  |
| CATV Duct | Underground Television Cable Duct             |
| VS        | Vacuum Sewer                                  |
| W         | Water Line *                                  |
| W Duct    | Water Line Duct                               |
| Unk       | Depicted According To Utility Records **      |
| Unk       | Abandoned According To Utility Records **     |
| Unk       | According To Miss Utility Information **      |
|           | * Designate size (Variable From 0.75" to 54") |
|           | ** Designate type (Unknown line is shown)     |

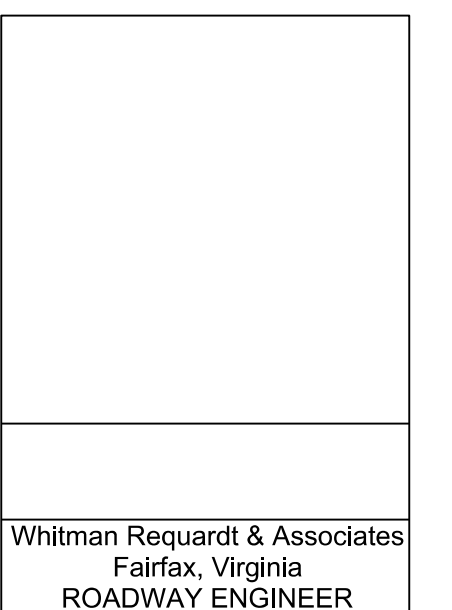
## REVISIONS

CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
127 CENTER STREET SOUTH  
VIENNA, VA, 22180



**TOWN OF VIENNA**  
since 1890

**BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS**



Whitman, Requardt & Associates  
Fairfax, Virginia  
ROADWAY ENGINEER



Whitman, Requardt & Associates, LLP  
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**SURVEY DATA  
INFORMATION**

SCALE: N/A

DATE: 07/2023

SHEET: 1A(1)

DES: PS

DRAWN: JZ

CHECK: TL



# ALIGNMENT DATA SHEET

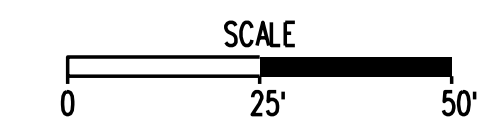
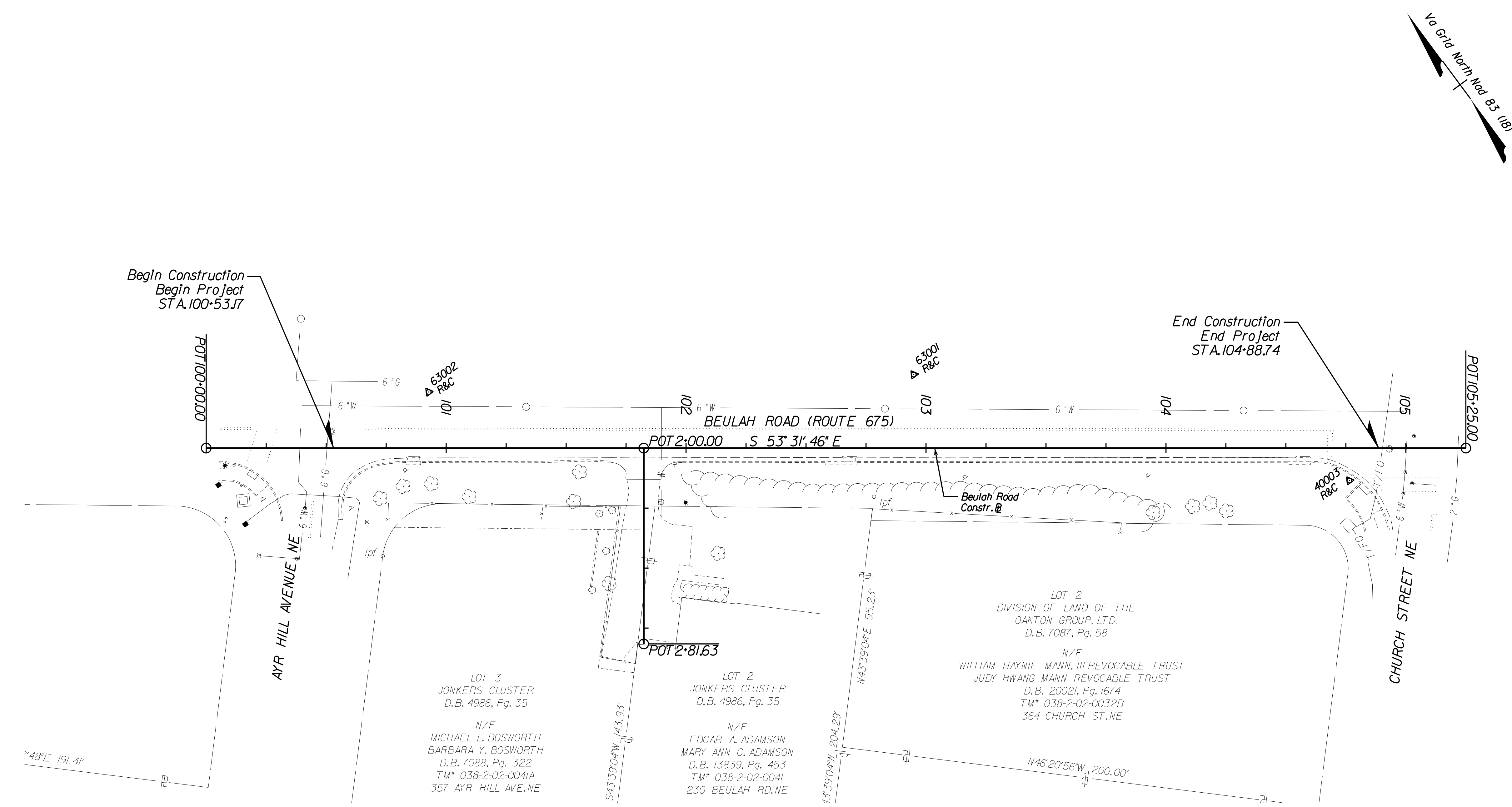
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 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



### 230 BEULAH ROAD ENTRANCE CONSTRUCTION ALIGNMENT DATA

Chain BEUENTR contains:  
 BEUENT001 BEUENT004

Beginning chain BEUENTR description  
 =====

Point BEUENT001 N 7,016,404.2564 E 11,835,635.9311 Sta 2+00.00  
 Course from BEUENT001 to BEUENT004 S 36° 28' 14.26" W Dist 81.6277  
 Point BEUENT004 N 7,016,338.6145 E 11,835,587.4107 Sta 2+81.63  
 =====

Ending chain BEUENTR description

| Control Table |                |                 |        |             |
|---------------|----------------|-----------------|--------|-------------|
| *             | Northing       | Easting         | Elev.  | Description |
| 40003         | 7,016,218.5664 | 11,835,864.4031 | 386.76 | R&C         |
| 40004         | 7,015,983.3032 | 11,836,171.4442 | 368.40 | R&C         |
| 60005         | 7,016,408.3801 | 11,836,125.3216 | 373.17 | R&C         |
| 63001         | 7,016,362.0152 | 11,835,744.6616 | 399.63 | R&C         |
| 63002         | 7,016,476.3372 | 11,835,577.7569 | 406.61 | R&C         |

### MAINLINE BEULAH ROAD CONSTRUCTION ALIGNMENT DATA

Chain BEULAH contains:  
 BEU001 BEU002

Beginning chain BEULAH description  
 =====

Point BEU001 N 7,016,512.6469 E 11,835,489.2925 Sta 100+00.00  
 Course from BEU001 to BEU002 S 53° 31' 45.74" E Dist 525.0000  
 Point BEU002 N 7,016,200.5813 E 11,835,911.4774 Sta 105+25.00

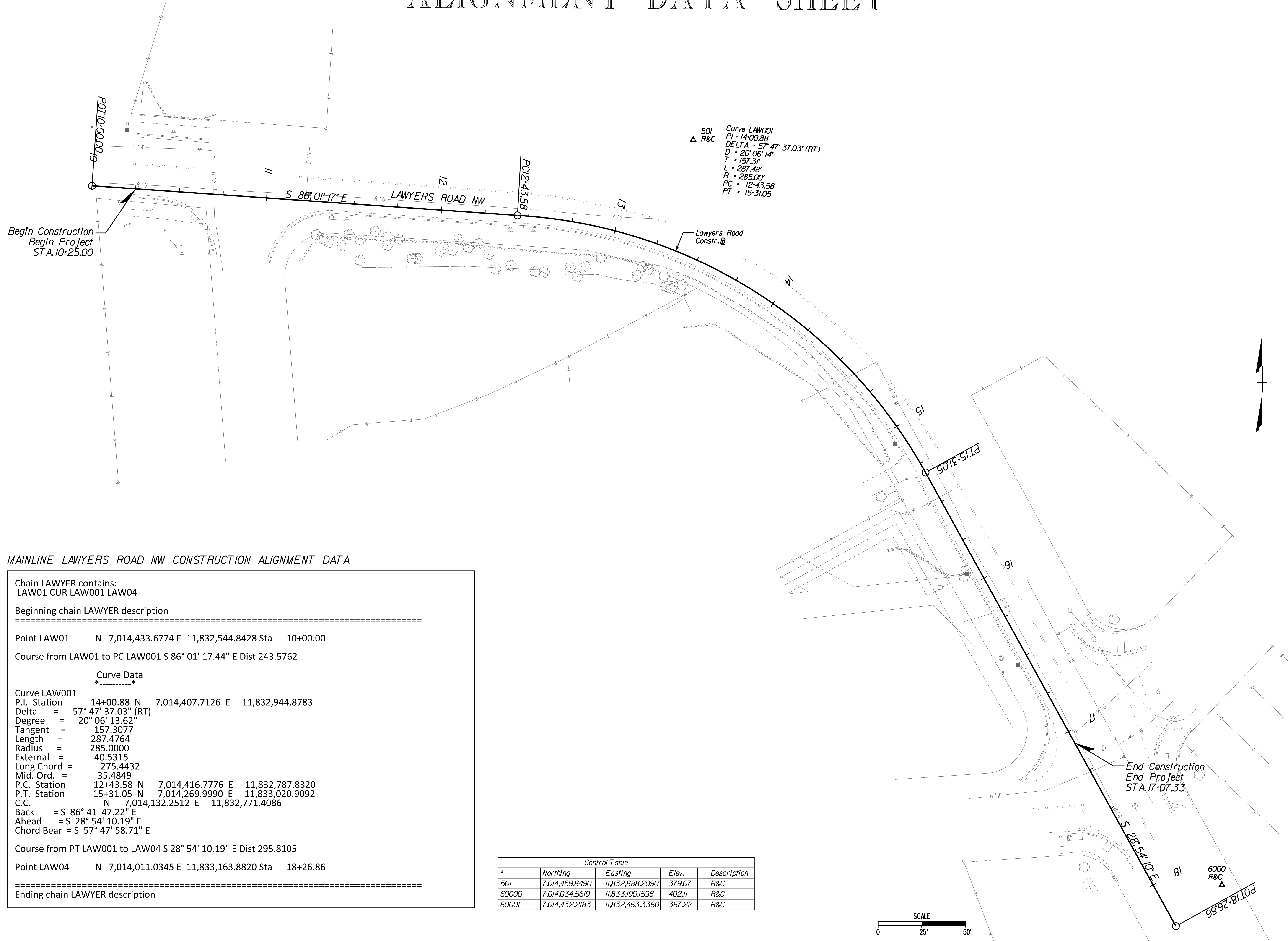


**Whitman, Requardt & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

### BEULAH ROAD ALIGNMENT DATA

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 1A(2)  
 DES: PS DRAWN: JZ CHECK: TL

# ALIGNMENT DATA SHEET



501  
 R&C  
 Curve LAW001  
 P.I. = 14+00.88  
 DELTA = 57° 47' 37.03" (RT)  
 D = 20° 06' 14"  
 T = 157.31'  
 L = 287.48'  
 R = 285.00'  
 PC = 12+43.58  
 PT = 15+31.05

## MAINLINE LAWYERS ROAD NW CONSTRUCTION ALIGNMENT DATA

Chain LAWYER contains:  
 LAW01 CUR LAW001 LAW04

Beginning chain LAWYER description

Point LAW01 N 7,014,433.6774 E 11,832,544.8428 Sta 10+00.00

Course from LAW01 to PC LAW001 S 86° 01' 17.44" E Dist 243.5762

### Curve Data

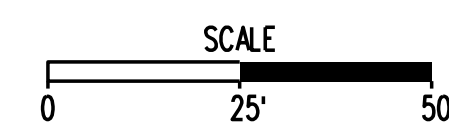
Curve LAW001  
 P.I. Station 14+00.88 N 7,014,407.7126 E 11,832,944.8783  
 Delta = 57° 47' 37.03" (RT)  
 Degree = 20° 06' 13.62"  
 Tangent = 157.3077  
 Length = 287.4764  
 Radius = 285.0000  
 External = 40.5315  
 Long Chord = 275.4432  
 Mid. Ord. = 35.4849  
 P.C. Station 12+43.58 N 7,014,416.7776 E 11,832,787.8320  
 P.T. Station 15+31.05 N 7,014,269.9990 E 11,833,020.9092  
 C.C. N 7,014,132.2512 E 11,832,771.4086  
 Back = S 86° 41' 47.22" E  
 Ahead = S 28° 54' 10.19" E  
 Chord Bear = S 57° 47' 58.71" E

Course from PT LAW001 to LAW04 S 28° 54' 10.19" E Dist 295.8105

Point LAW04 N 7,014,011.0345 E 11,833,163.8820 Sta 18+26.86

Ending chain LAWYER description

| Control Table |                |                 |        |             |
|---------------|----------------|-----------------|--------|-------------|
| #             | Northing       | Easting         | Elev.  | Description |
| 501           | 7,014,459.8490 | 11,832,888.2090 | 379.07 | R&C         |
| 60000         | 7,014,034.5619 | 11,833,190.1598 | 402.11 | R&C         |
| 60001         | 7,014,432.2183 | 11,832,463.3360 | 367.22 | R&C         |



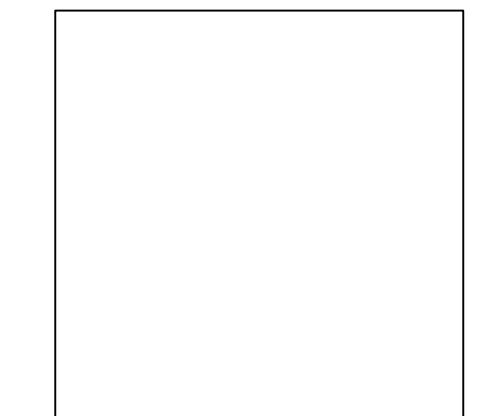
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 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



Whitman, Requardt & Associates, LLP  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**LAWYERS ROAD  
 SIDEWALK  
 ALIGNMENT DATA**

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 1A(3)  
 DES: PS DRAWN: JZ CHECK: TL



# ALIGNMENT DATA SHEET

| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

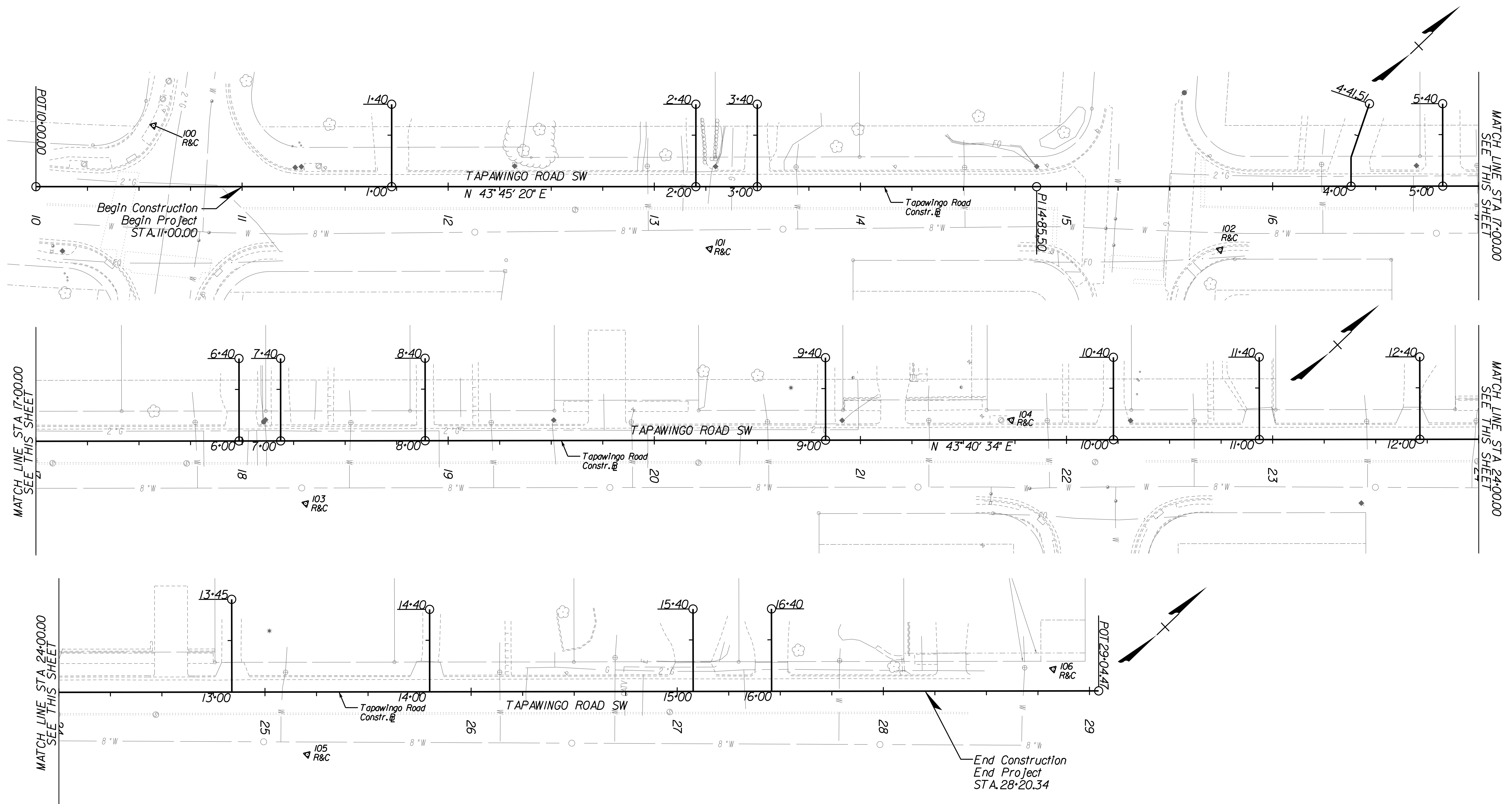
**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



**TAPAWINGO ROAD  
 SIDEWALK  
 ALIGNMENT DATA**

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 1A(4)  
 DES: JZ DRAWN: JZ CHECK: TL



**MAINLINE TAPAWINGO ROAD SW CONSTRUCTION ALIGNMENT DATA**

Chain TAPWIN contains:  
 TAP001 TAP002 TAP003

Beginning chain TAPWIN description  
 =====

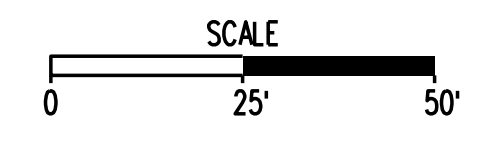
Point TAP001 N 7,010,267.9188 E 11,836,432.0819 Sta 10+00.00  
 Course from TAP001 to TAP002 N 43° 45' 20.31" E Dist 485.4959

Point TAP002 N 7,010,618.5905 E 11,836,767.8432 Sta 14+85.50  
 Course from TAP002 to TAP003 N 43° 40' 33.80" E Dist 1,418.9763

Point TAP003 N 7,011,644.8733 E 11,837,747.7602 Sta 29+04.47  
 =====

Ending chain TAPWIN description

| Control Table |                |                 |        |             |
|---------------|----------------|-----------------|--------|-------------|
| #             | Northing       | Easting         | Elev.  | Description |
| 100           | 7,010,329.6597 | 11,836,450.1156 | 384.05 | R&C         |
| 101           | 7,010,483.2032 | 11,836,679.8999 | 392.13 | R&C         |
| 102           | 7,010,661.6933 | 11,836,851.4931 | 391.30 | R&C         |
| 103           | 7,010,847.3770 | 11,837,028.2989 | 393.63 | R&C         |
| 104           | 7,011,226.407  | 11,837,235.8402 | 377.29 | R&C         |
| 105           | 7,011,346.2030 | 11,837,504.4990 | 392.94 | R&C         |
| 106           | 7,011,636.2539 | 11,837,724.8563 | 387.40 | R&C         |





# ALIGNMENT DATA SHEET

## ENTRANCE \*1 - 125 TAPAWINGO ROAD SW

Chain TAPENTR01 contains:  
TAP004 TAP005

Beginning chain TAPENTR01 description

Point TAP004 N 7,010,392.5718 E 11,836,551.4347 Sta 1+00.00

Course from TAP004 to TAP005 N 46° 14' 39.69" W Dist 40.0000

Point TAP005 N 7,010,420.2352 E 11,836,522.5429 Sta 1+40.00

Ending chain TAPENTR01 description

## ENTRANCE \*2 - 123 TAPAWINGO ROAD SW

Chain TAPENTR02 contains:  
TAP006 TAP007

Beginning chain TAPENTR02 description

Point TAP006 N 7,010,499.1715 E 11,836,653.5019 Sta 2+00.00

Course from TAP006 to TAP007 N 46° 14' 39.69" W Dist 40.0000

Point TAP007 N 7,010,526.8349 E 11,836,624.6100 Sta 2+40.00

Ending chain TAPENTR02 description

## ENTRANCE \*3 - 121 TAPAWINGO ROAD SW

Chain TAPENTR03 contains:  
TAP008 TAP009

Beginning chain TAPENTR03 description

Point TAP008 N 7,010,520.6967 E 11,836,674.1118 Sta 3+00.00

Course from TAP008 to TAP009 N 46° 14' 39.69" W Dist 40.0000

Point TAP009 N 7,010,548.3601 E 11,836,645.2200 Sta 3+40.00

Ending chain TAPENTR03 description

## ENTRANCE \*4 - 117 TAPAWINGO ROAD SW

Chain TAPENTR04 contains:  
TAP010 TAP011 TAP012

Beginning chain TAPENTR04 description

Point TAP010 N 7,010,728.9249 E 11,836,873.1929 Sta 4+00.00

Course from TAP010 to TAP011 N 46° 19' 26.19" W Dist 14.0000

Point TAP011 N 7,010,738.5930 E 11,836,863.0673 Sta 4+14.00

Course from TAP011 to TAP012 N 27° 16' 04.98" W Dist 27.5074

Point TAP012 N 7,010,763.0436 E 11,836,850.4647 Sta 4+41.51

Ending chain TAPENTR04 description

## ENTRANCE \*5 - 115 TAPAWINGO ROAD SW

Chain TAPENTR05 contains:  
TAP013 TAP014

Beginning chain TAPENTR05 description

Point TAP013 N 7,010,761.1000 E 11,836,903.9144 Sta 5+00.00

Course from TAP013 to TAP014 N 46° 19' 26.19" W Dist 40.0000

Point TAP014 N 7,010,788.7232 E 11,836,874.9842 Sta 5+40.00

Ending chain TAPENTR05 description

## ENTRANCE \*6 - 113 TAPAWINGO ROAD SW

Chain TAPENTR06 contains:  
TAP015 TAP016

Beginning chain TAPENTR06 description

Point TAP015 N 7,010,845.0196 E 11,836,984.0426 Sta 6+00.00

Course from TAP015 to TAP016 N 46° 19' 26.20" W Dist 40.0000

Point TAP016 N 7,010,872.6428 E 11,836,955.1124 Sta 6+40.00

Ending chain TAPENTR06 description

## ENTRANCE \*7 - 111 TAPAWINGO ROAD SW

Chain TAPENTR07 contains:  
TAP017 TAP018

Beginning chain TAPENTR07 description

Point TAP017 N 7,010,859.6107 E 11,836,997.9745 Sta 7+00.00

Course from TAP017 to TAP018 N 46° 19' 26.20" W Dist 40.0000

Point TAP018 N 7,010,887.2339 E 11,836,969.0443 Sta 7+40.00

Ending chain TAPENTR07 description

## ENTRANCE \*8 - 109 TAPAWINGO ROAD SW

Chain TAPENTR08 contains:  
TAP019 TAP020

Beginning chain TAPENTR08 description

Point TAP019 N 7,010,910.3134 E 11,837,046.3865 Sta 8+00.00

Course from TAP019 to TAP020 N 46° 19' 26.19" W Dist 40.0000

Point TAP020 N 7,010,937.9366 E 11,837,017.4563 Sta 8+40.00

Ending chain TAPENTR08 description

## ENTRANCE \*9 - 105 TAPAWINGO ROAD SW

Chain TAPENTR09 contains:  
TAP021 TAP022

Beginning chain TAPENTR09 description

Point TAP021 N 7,011,050.8112 E 11,837,180.5369 Sta 9+00.00

Course from TAP021 to TAP022 N 46° 19' 26.20" W Dist 40.0000

Point TAP022 N 7,011,078.4344 E 11,837,151.6066 Sta 9+40.00

Ending chain TAPENTR09 description

## ENTRANCE \*10 - 101 TAPAWINGO ROAD SW

Chain TAPENTR10 contains:  
TAP023 TAP024

Beginning chain TAPENTR10 description

Point TAP023 N 7,011,151.8403 E 11,837,277.0016 Sta 10+00.00

Course from TAP023 to TAP024 N 46° 19' 26.20" W Dist 40.0000

Point TAP024 N 7,011,179.4635 E 11,837,248.0714 Sta 10+40.00

Ending chain TAPENTR10 description

## ENTRANCE \*11 - 100 TAPAWINGO ROAD SE

Chain TAPENTR11 contains:  
TAP025 TAP026

Beginning chain TAPENTR11 description

Point TAP025 N 7,011,203.0110 E 11,837,325.8605 Sta 11+00.00

Course from TAP025 to TAP026 N 46° 19' 26.20" W Dist 40.0000

Point TAP026 N 7,011,230.6342 E 11,837,296.9303 Sta 11+40.00

Ending chain TAPENTR11 description

## ENTRANCE \*12 - 102 TAPAWINGO ROAD SE

Chain TAPENTR12 contains:  
TAP027 TAP028

Beginning chain TAPENTR12 description

Point TAP027 N 7,011,259.3523 E 11,837,379.6564 Sta 12+00.00

Course from TAP027 to TAP028 N 46° 19' 26.20" W Dist 40.0000

Point TAP028 N 7,011,286.9755 E 11,837,350.7261 Sta 12+40.00

Ending chain TAPENTR12 description

## ENTRANCE \*13 - 106 TAPAWINGO ROAD SE

Chain TAPENTR13 contains:  
TAP029 TAP030

Beginning chain TAPENTR13 description

Point TAP029 N 7,011,340.6901 E 11,837,457.3195 Sta 13+00.00

Course from TAP029 to TAP030 N 46° 19' 26.20" W Dist 40.0000

Point TAP030 N 7,011,368.3133 E 11,837,428.3893 Sta 13+40.00

Ending chain TAPENTR13 description

## ENTRANCE \*14 - 108 TAPAWINGO ROAD SE

Chain TAPENTR14 contains:  
TAP031 TAP032

Beginning chain TAPENTR14 description

Point TAP031 N 7,011,410.1288 E 11,837,523.6210 Sta 14+00.00

Course from TAP031 to TAP032 N 46° 19' 26.20" W Dist 40.0000

Point TAP032 N 7,011,437.7520 E 11,837,494.6908 Sta 14+40.00

Ending chain TAPENTR14 description

## ENTRANCE \*15 - 110 TAPAWINGO ROAD SE

Chain TAPENTR15 contains:  
TAP033 TAP034

Beginning chain TAPENTR15 description

Point TAP033 N 7,011,502.5670 E 11,837,611.8830 Sta 15+00.00

Course from TAP033 to TAP034 N 46° 19' 26.20" W Dist 40.0000

Point TAP034 N 7,011,530.1902 E 11,837,582.9528 Sta 15+40.00

Ending chain TAPENTR15 description

## ENTRANCE \*16 - 112 TAPAWINGO ROAD SE

Chain TAPENTR16 contains:  
TAP035 TAP036

Beginning chain TAPENTR16 description

Point TAP035 N 7,011,530.1012 E 11,837,638.1733 Sta 16+00.00

Course from TAP035 to TAP036 N 46° 19' 26.20" W Dist 40.0000

Point TAP036 N 7,011,557.7244 E 11,837,609.2431 Sta 16+40.00

Ending chain TAPENTR16 description

| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
127 CENTER STREET SOUTH  
VIENNA, VA, 22180



**TOWN OF VIENNA**  
since 1890

**BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS**



Whitman Requardt & Associates  
Fairfax, Virginia  
ROADWAY ENGINEER



**Whitman, Requardt & Associates, LLP**  
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
SIDEWALK  
ALIGNMENT DATA**

|               |              |           |
|---------------|--------------|-----------|
| SCALE: N/A    |              |           |
| DATE: 07/2023 | SHEET: 1A(5) |           |
| DES: JZ       | DRAWN: JZ    | CHECK: TL |



# EXISTING CONDITIONS AND DEMOLITION PLAN

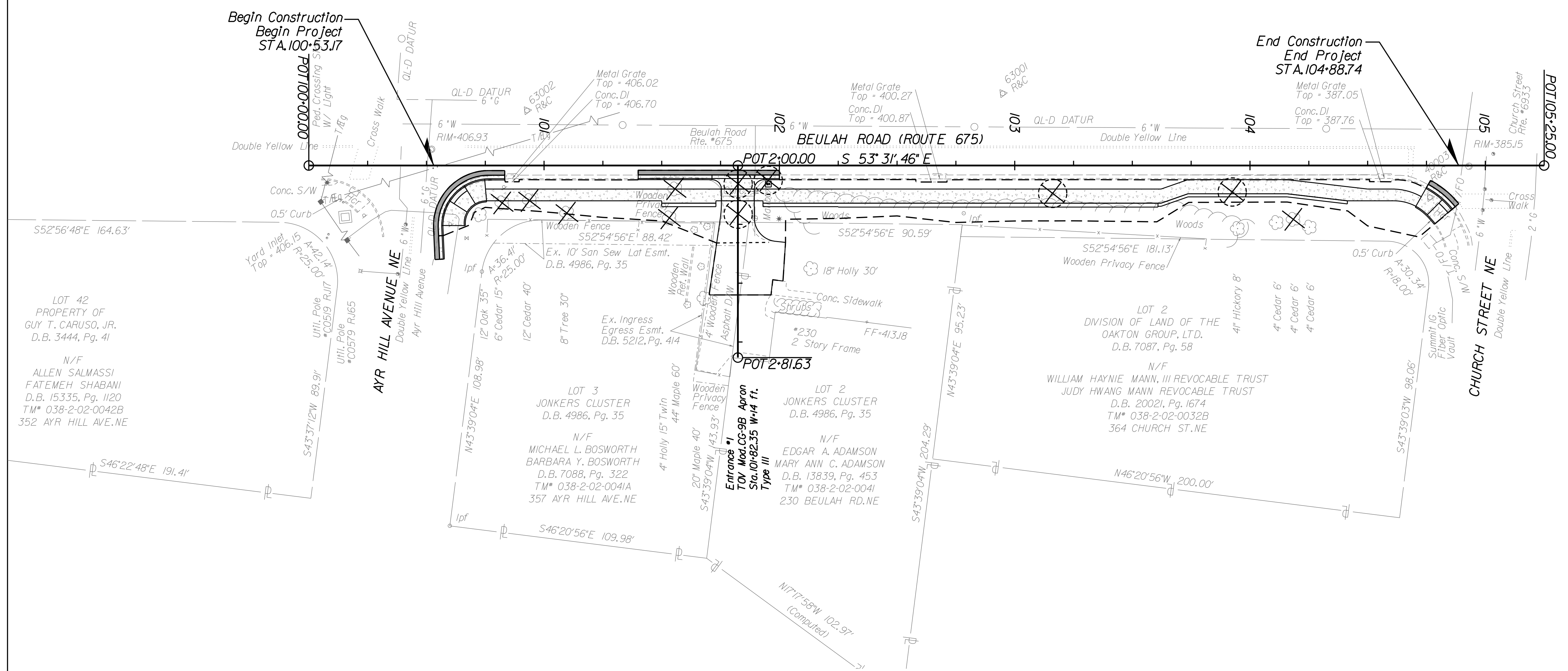
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



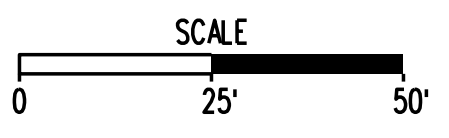
**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



**LEGEND**

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|  | Denotes Limits of Disturbance              |
|  | Denotes Item to be Removed                 |
|  | Denotes Item to be Relocated/Reconstructed |



Whitman Reardon & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



Whitman, Reardon & Associates, LLP  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**BEULAH ROAD  
 SIDEWALK EXISTING  
 CONDITIONS AND  
 DEMOLITION PLAN**

|               |              |
|---------------|--------------|
| SCALE: 1"=25' |              |
| DATE: 07/2023 | SHEET: 1B(1) |
| DES: PS       | DRAWN: JZ    |
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# EXISTING CONDITIONS AND DEMOLITION PLAN



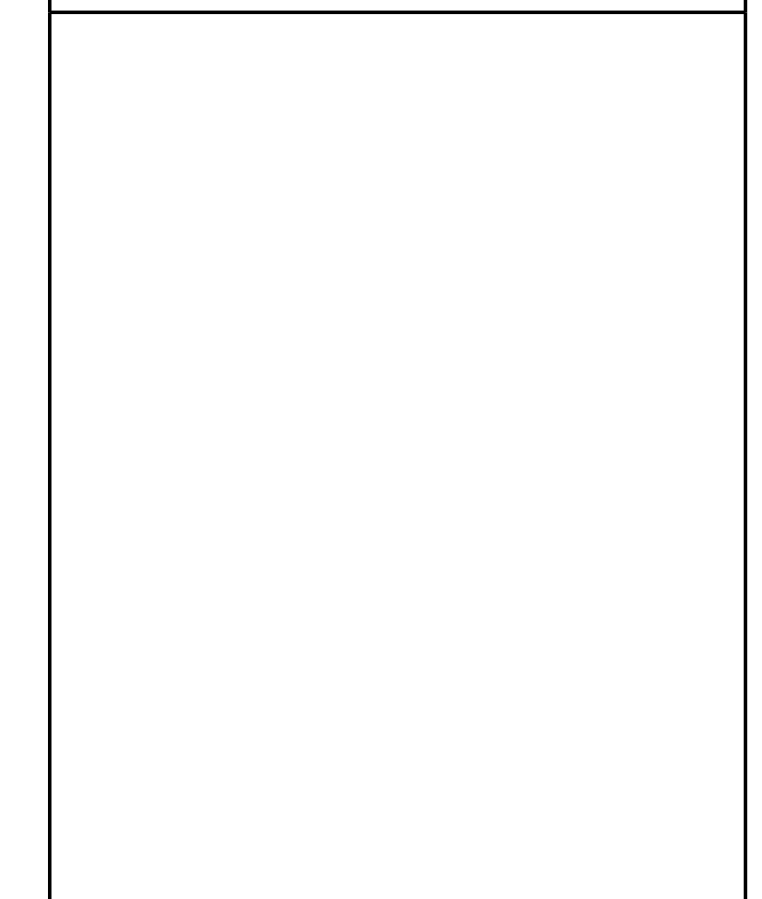
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



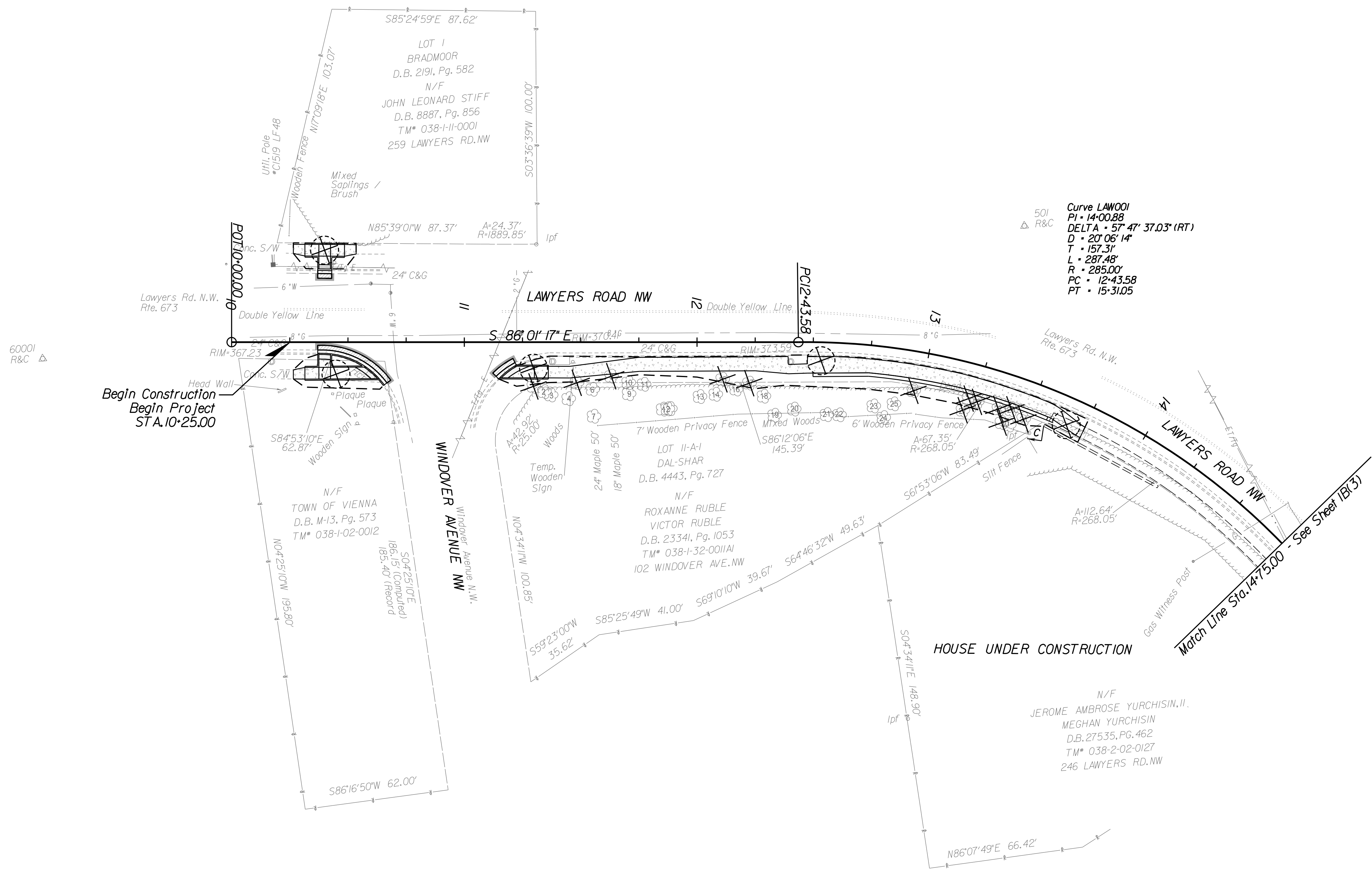
Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



**Whitman, Requardt & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

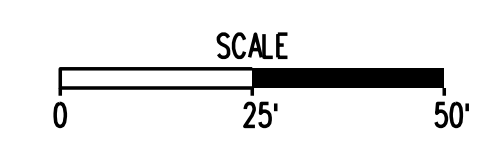
**LAWYERS ROAD NW  
 SIDEWALK EXISTING  
 CONDITIONS AND  
 DEMOLITION PLAN**

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 1B(2)  
 DES: PS DRAWN: JZ CHECK: TL



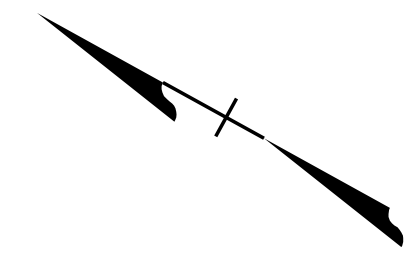
**LEGEND**

- Denotes Limits of Disturbance
- ✕ Denotes Item to be Removed
- ⊙ Denotes Item to be Relocated/Reconstructed





# EXISTING CONDITIONS AND DEMOLITION PLAN



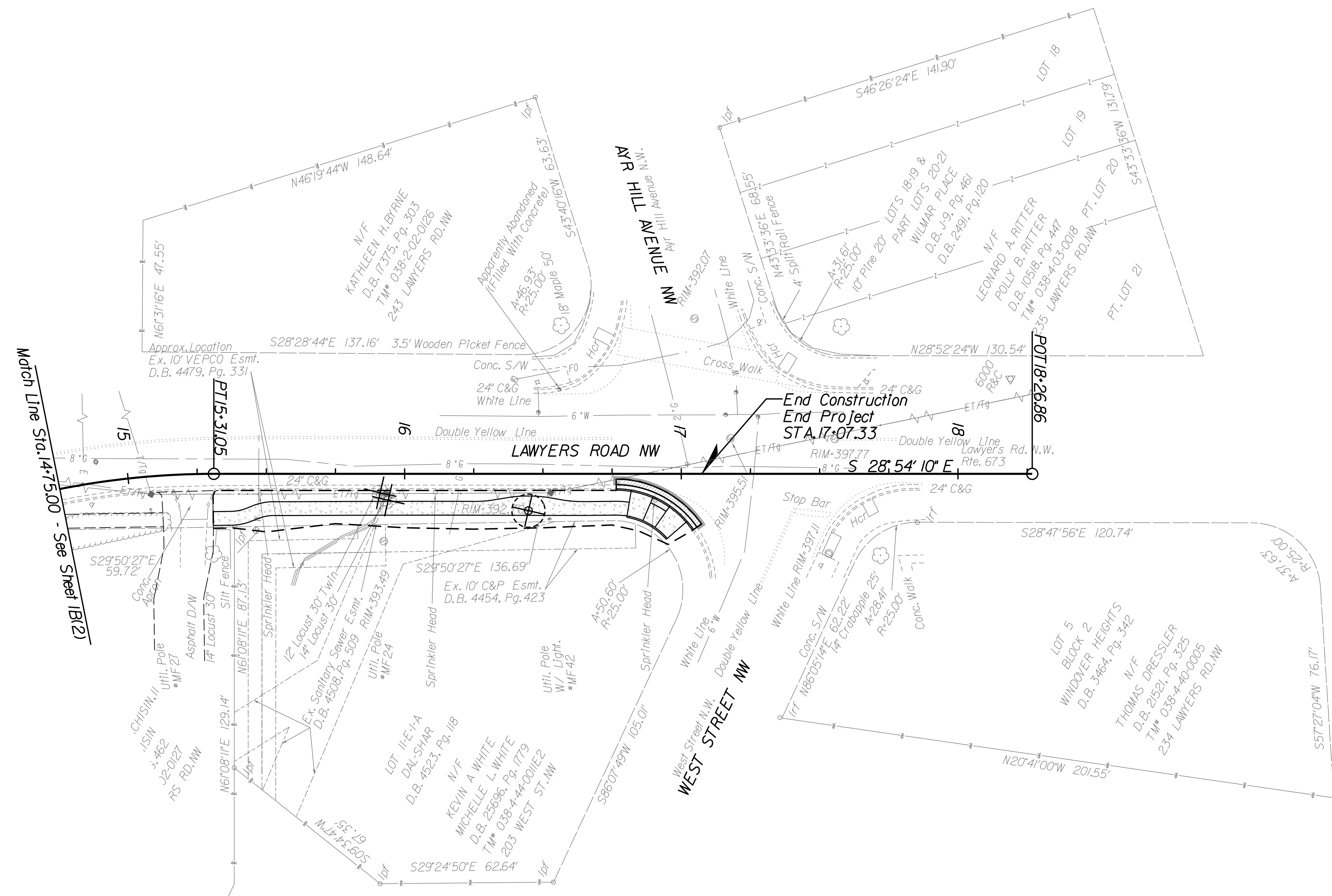
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



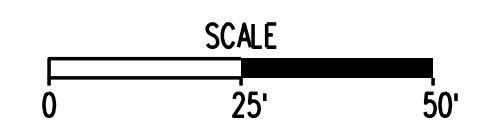
**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



**LEGEND**

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|  | Denotes Limits of Disturbance              |
|  | Denotes Item to be Removed                 |
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 ROADWAY ENGINEER

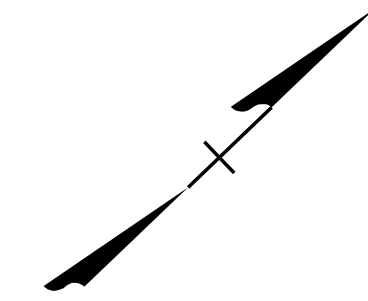
**Whitman, Reardon & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**LAWYERS ROAD NW  
 SIDEWALK EXISTING  
 CONDITIONS AND  
 DEMOLITION PLAN**

SCALE: 1"=25'  
 DATE: 07/2023    SHEET: 1B(3)  
 DES: PS    DRAWN: JZ    CHECK: TL



# EXISTING CONDITIONS AND DEMOLITION PLAN



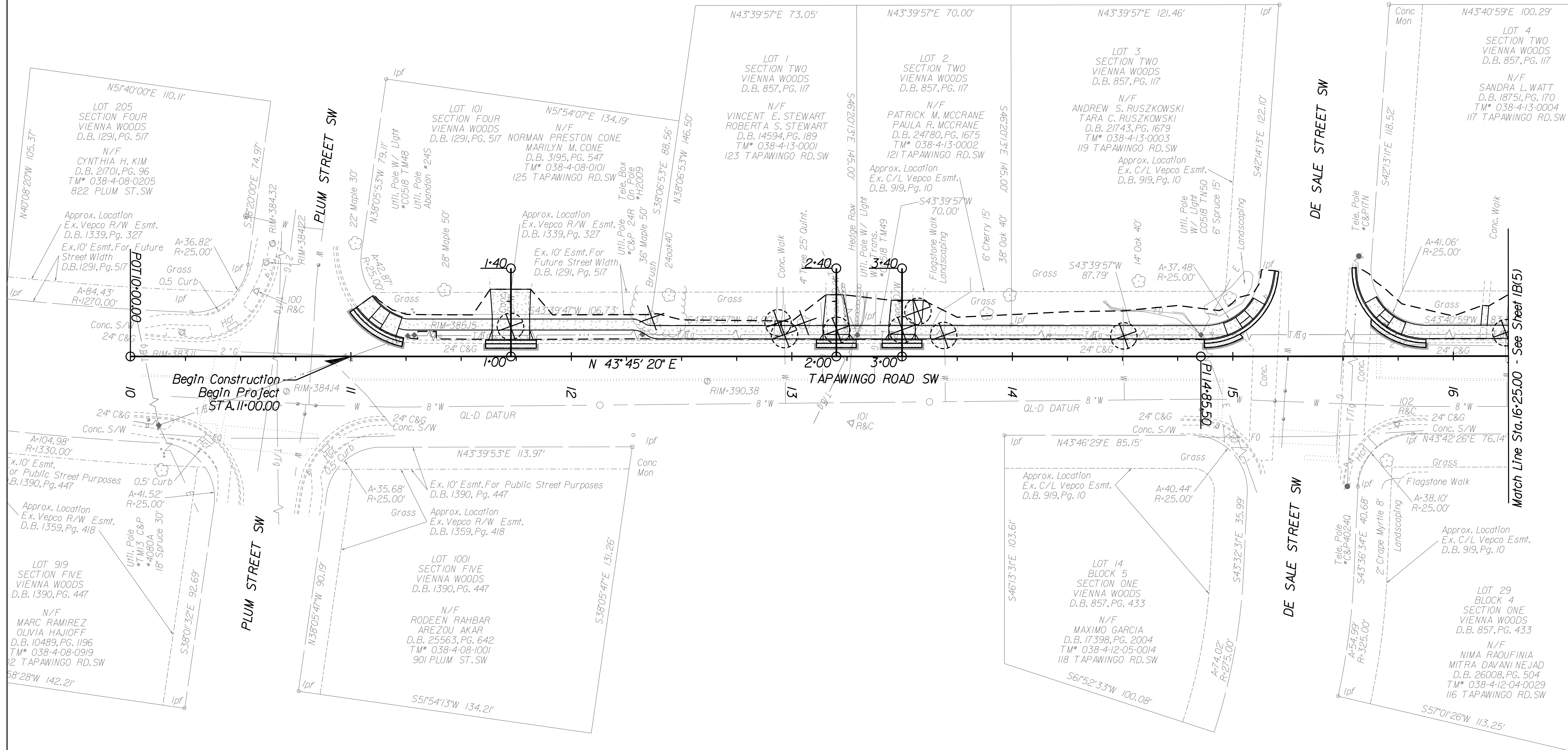
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



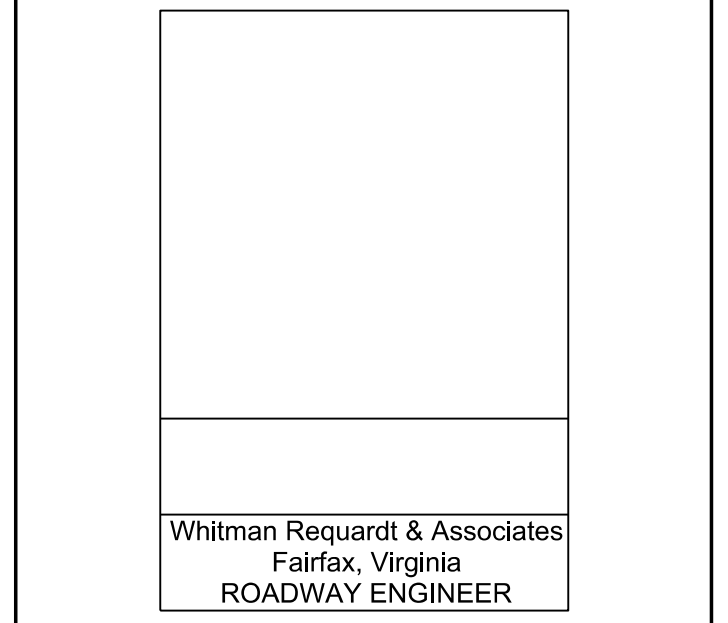
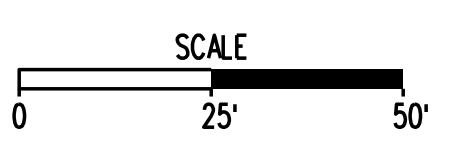
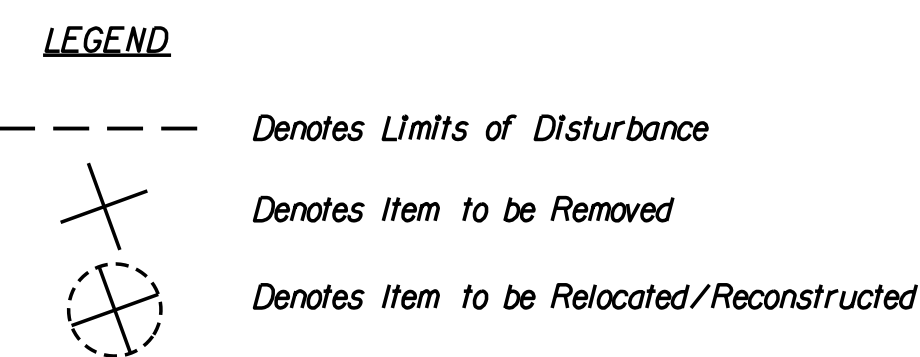
**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



Begin Construction  
 Begin Project  
 STA. 11+00.00

Match Line Sta. 16+25.00 - See Sheet 1B(5)



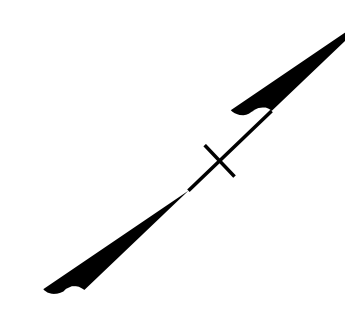
**WRA**  
 Whitman, Reardon & Associates, LLP  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD SW  
 SIDEWALK EXISTING  
 CONDITIONS AND  
 DEMOLITION PLAN**

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| SCALE: 1"=25' |              |           |
| DATE: 07/2023 | SHEET: 1B(4) |           |
| DES: JZ       | DRAWN: JZ    | CHECK: TL |



# EXISTING CONDITIONS AND DEMOLITION PLAN



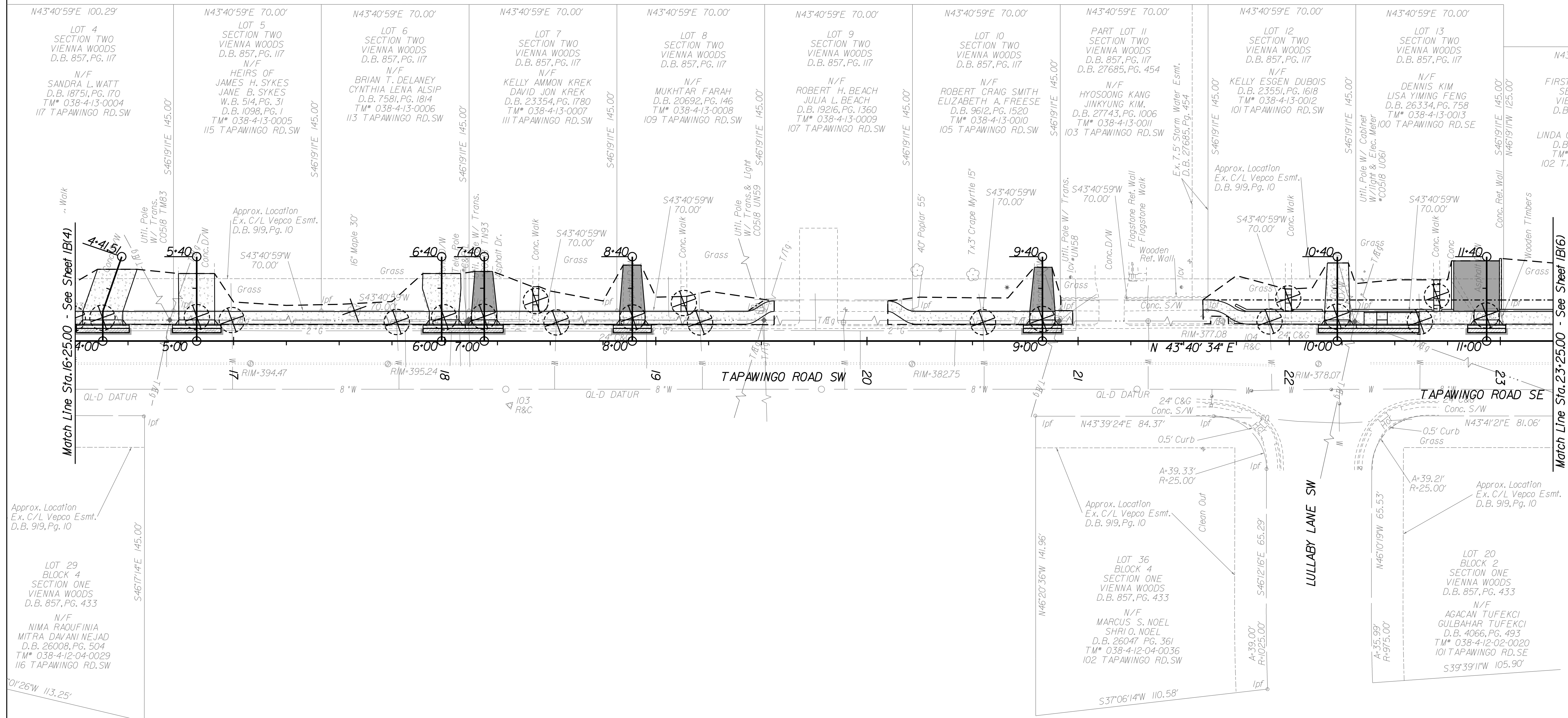
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
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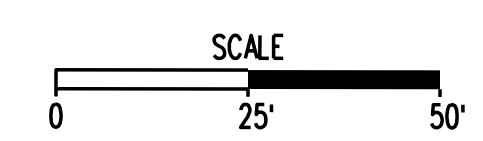
**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



**LEGEND**

|  |  |
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|  | Denotes Limits of Disturbance              |
|  | Denotes Item to be Removed                 |
|  | Denotes Item to be Relocated/Reconstructed |



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 Fairfax, Virginia  
 ROADWAY ENGINEER

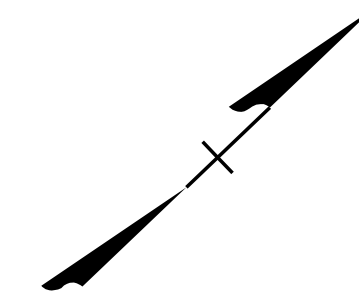


**TAPAWINGO ROAD SW  
 SIDEWALK EXISTING  
 CONDITIONS AND  
 DEMOLITION PLAN**

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 1B(5)  
 DES: JZ DRAWN: JZ CHECK: TL



# EXISTING CONDITIONS AND DEMOLITION PLAN



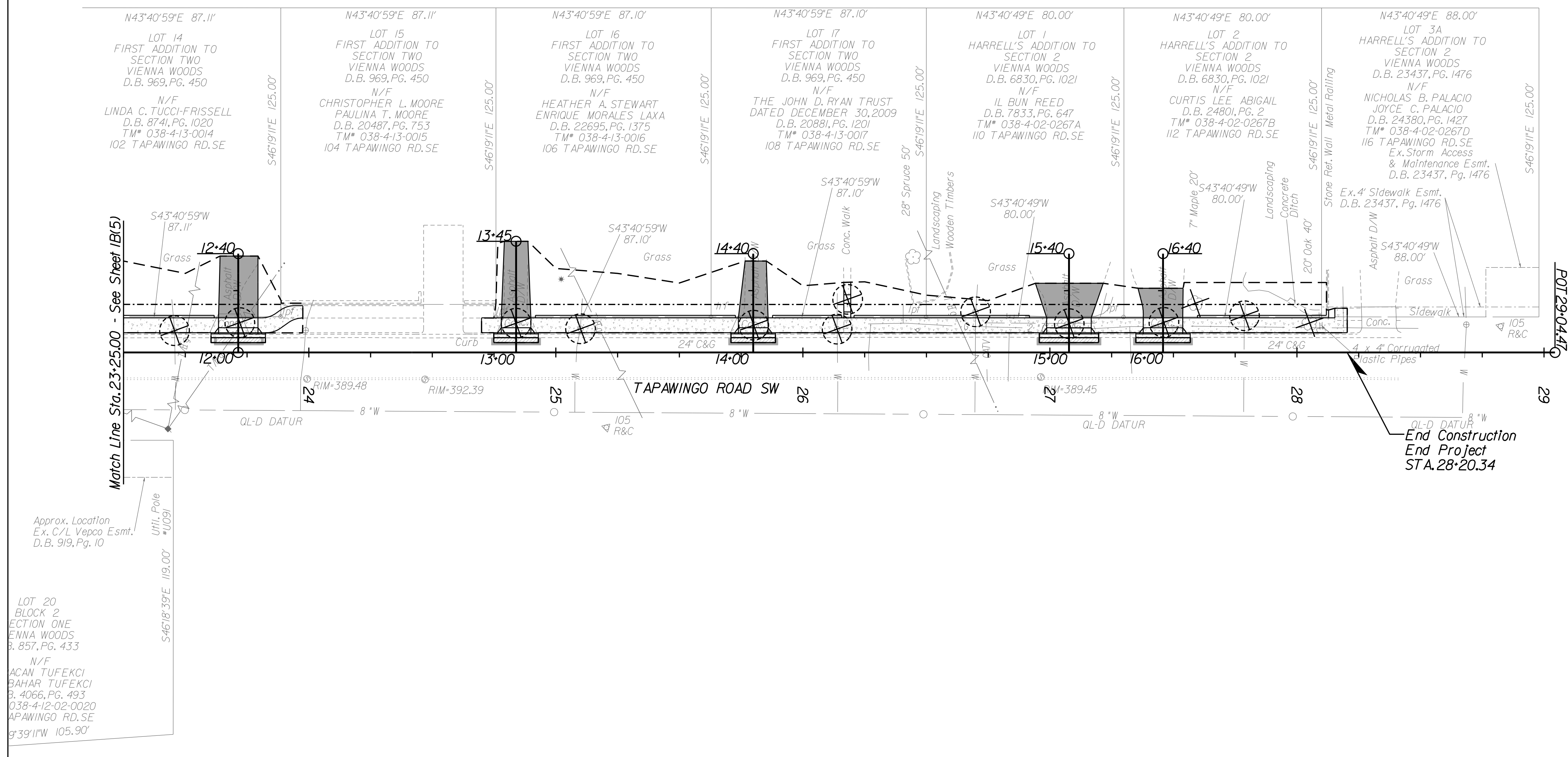
| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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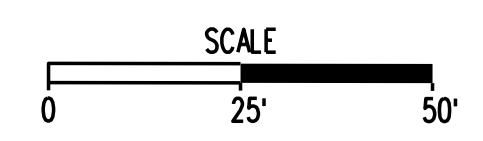
**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



**LEGEND**

- Denotes Limits of Disturbance
- ✕ Denotes Item to be Removed
- ⊕ Denotes Item to be Relocated/Reconstructed

End Construction  
 End Project  
 STA. 28+20.34



Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD SW  
 SIDEWALK EXISTING  
 CONDITIONS AND  
 DEMOLITION PLAN**

|               |              |           |
|---------------|--------------|-----------|
| SCALE: 1"=25' |              |           |
| DATE: 07/2023 | SHEET: 1B(6) |           |
| DES: JZ       | DRAWN: JZ    | CHECK: TL |



# TYPICAL SECTIONS

NOT TO SCALE

| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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**TOWN OF VIENNA**  
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**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

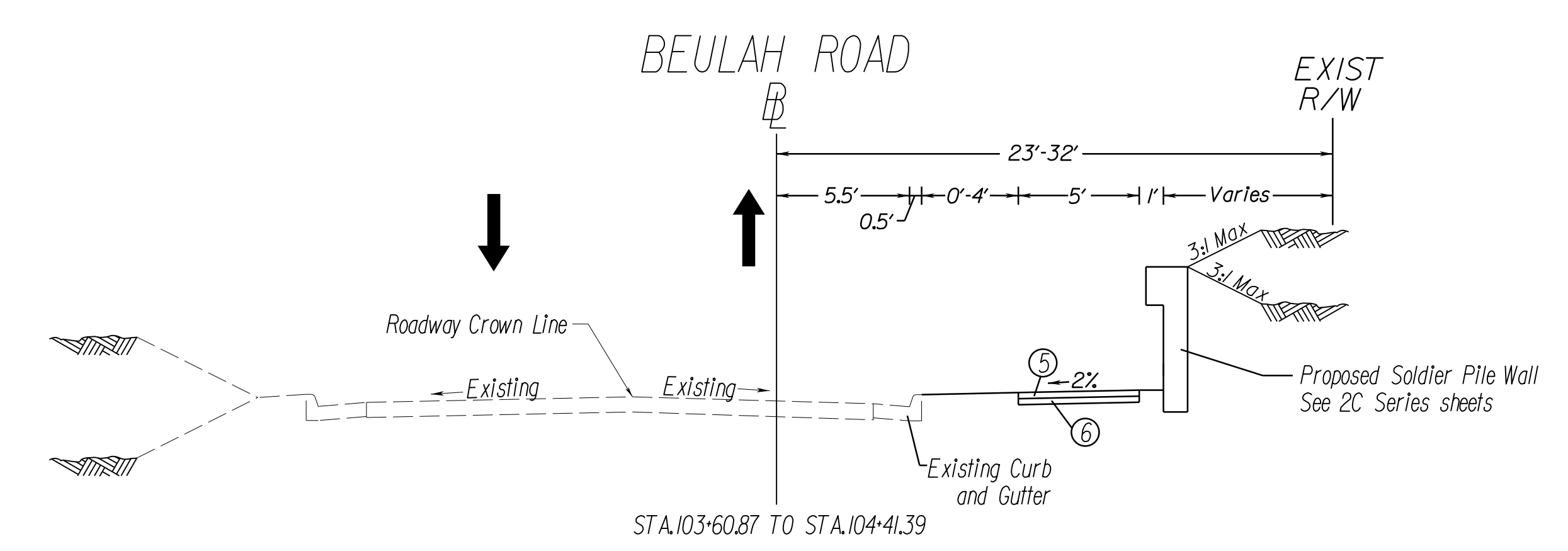
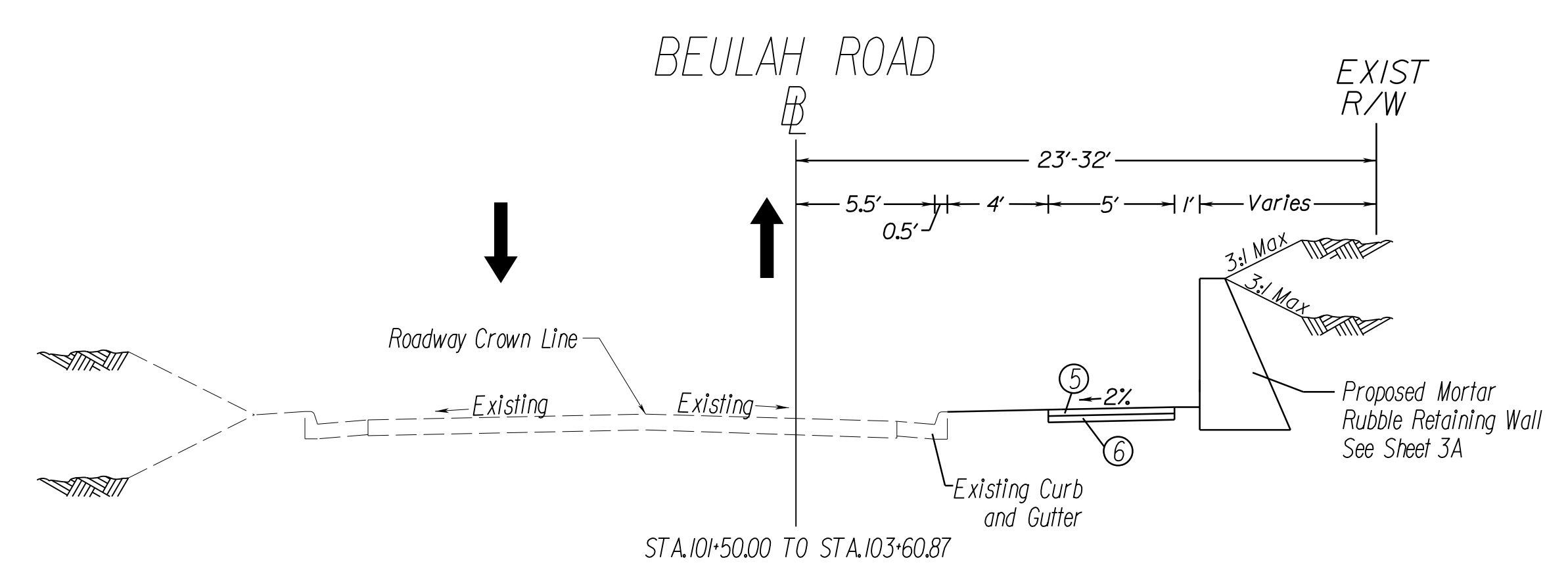
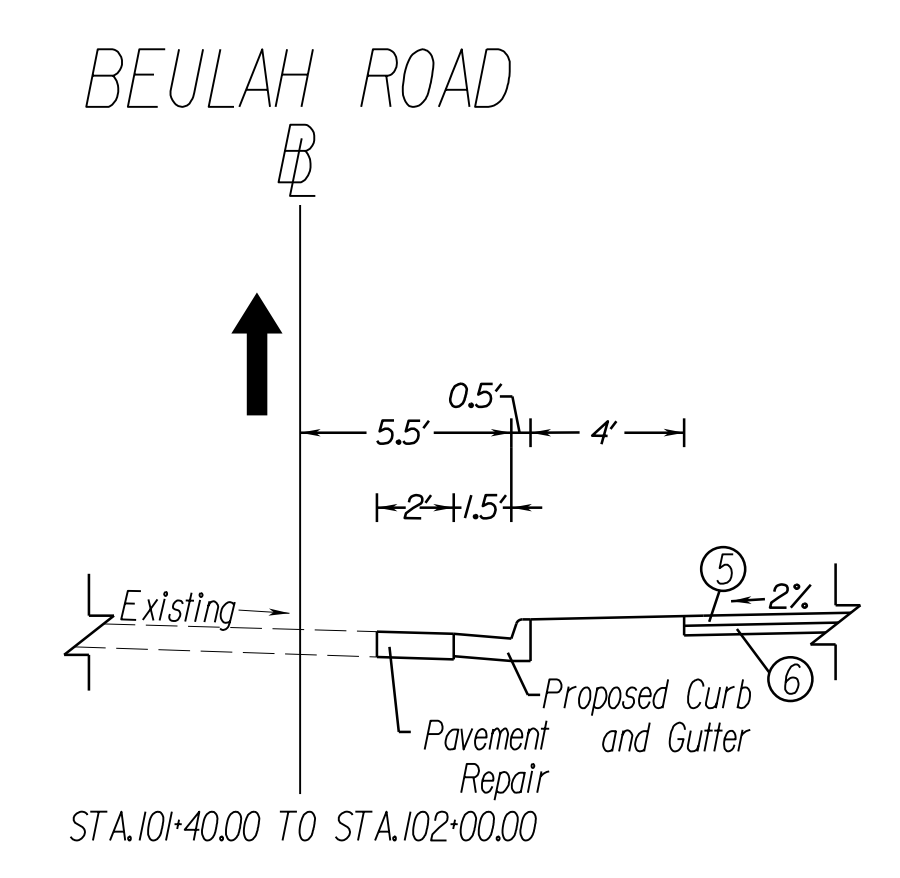
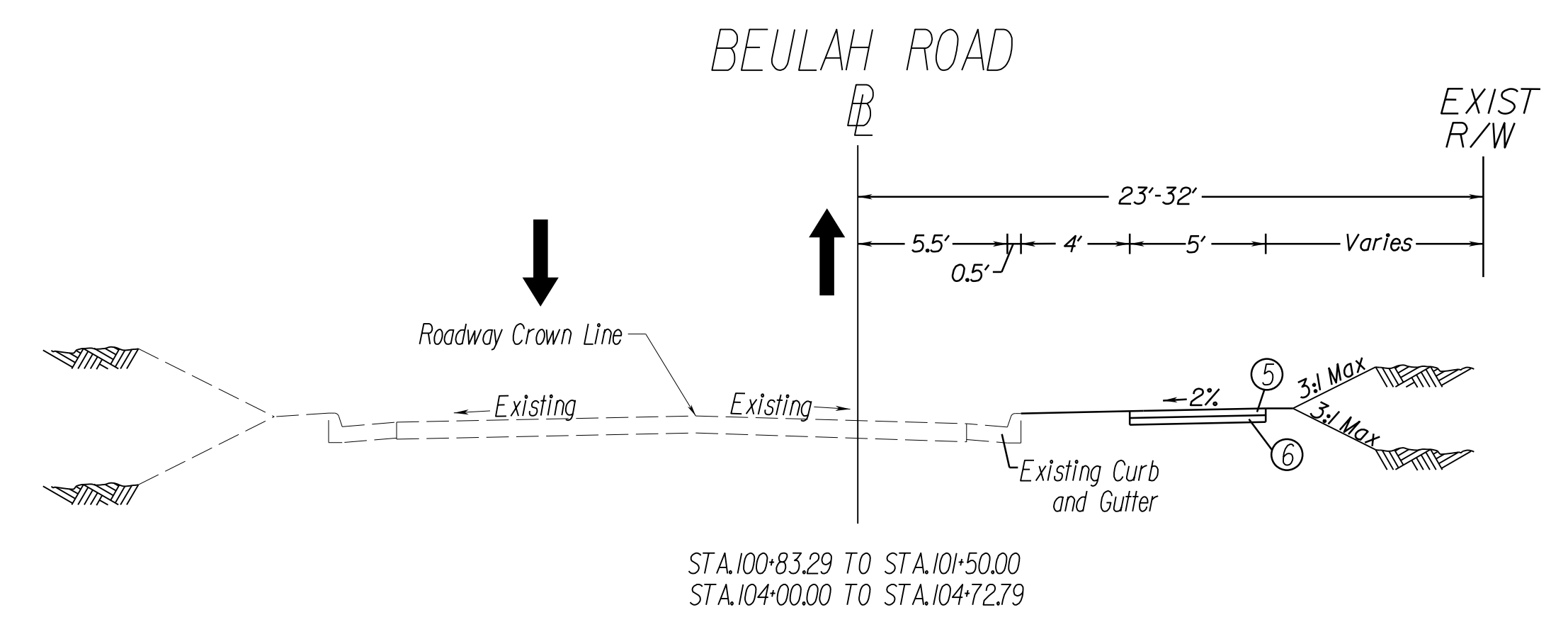
Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



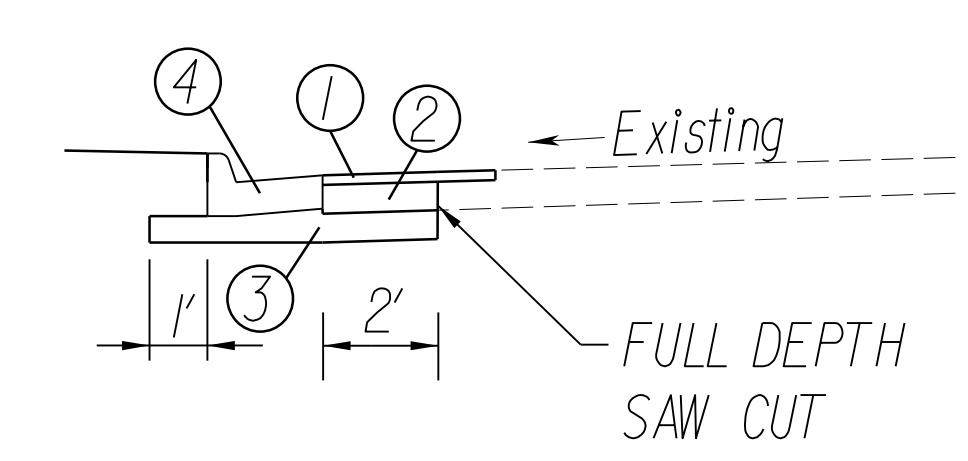
Whitman, Requardt & Associates, LLP  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**BEULAH ROAD  
 TYPICAL SECTIONS**

|               |              |           |
|---------------|--------------|-----------|
| SCALE: N/A    |              |           |
| DATE: 07/2023 | SHEET: 2A(1) |           |
| DES: PS       | DRAWN: JZ    | CHECK: TL |



### PAVEMENT REPAIR AND WEDGING DETAIL



Note:  
 All pavement repair and wedging shall be performed in accordance with VDOT standard WP-2.

### PAVEMENT LEGEND

- ① SURFACE - 2" ASPHALT CONCRETE, TYPE SM-9.5D  
ESTIMATED @ 182 LBS/SY
- ② BASE - 6.5" ASPHALT CONCRETE TYPE BM-25.0A
- ③ MIN. 8" AGGREGATE BASE MATERIAL TYPE 1 SIZE 21B,  
OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE,  
WHICHEVER IS GREATER
- ④ TOV STD. CURB AND GUTTER
- ⑤ 4" HYDRAULIC CEMENT CONCRETE CLASS A3 SIDEWALK RECD
- ⑥ 4" AGGREGATE BASE MATERIAL SIZE 21B

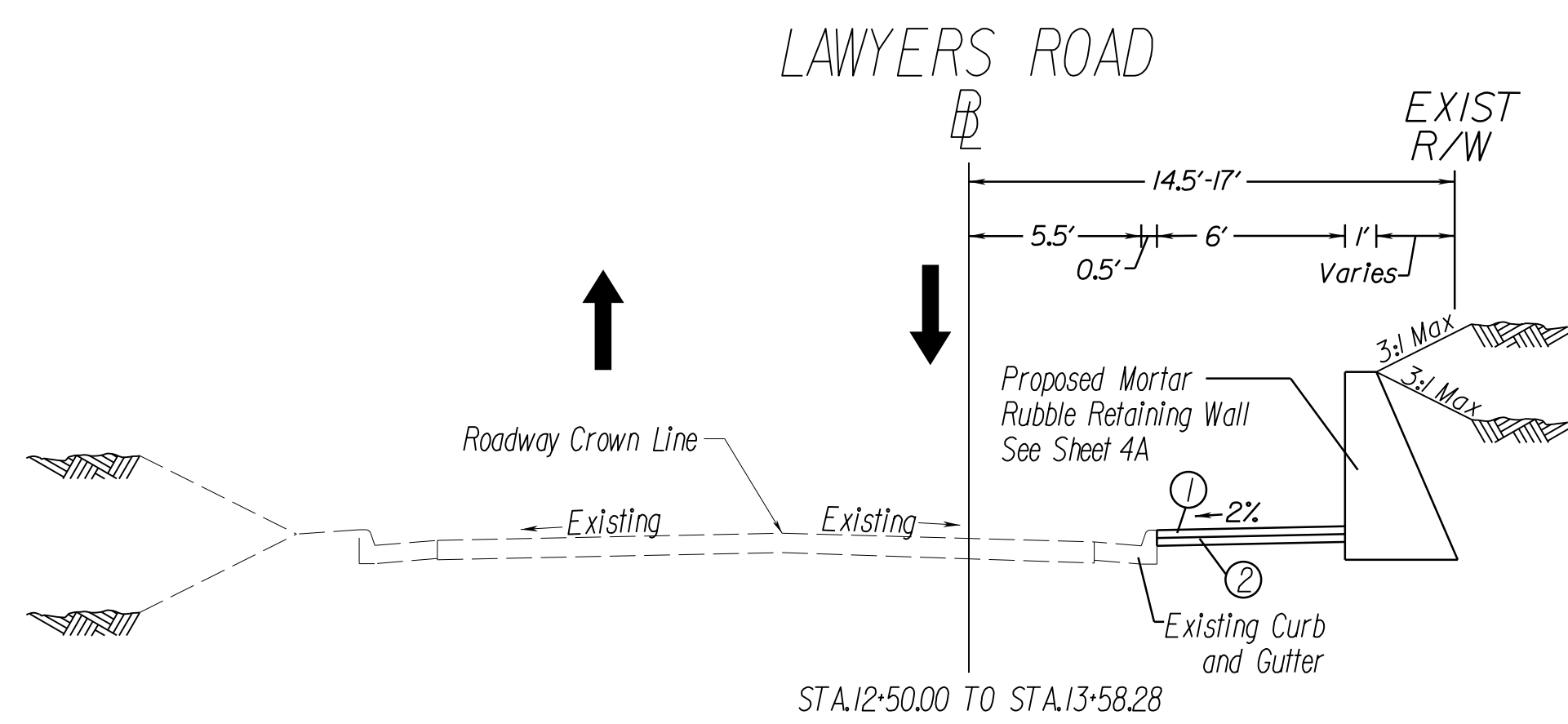
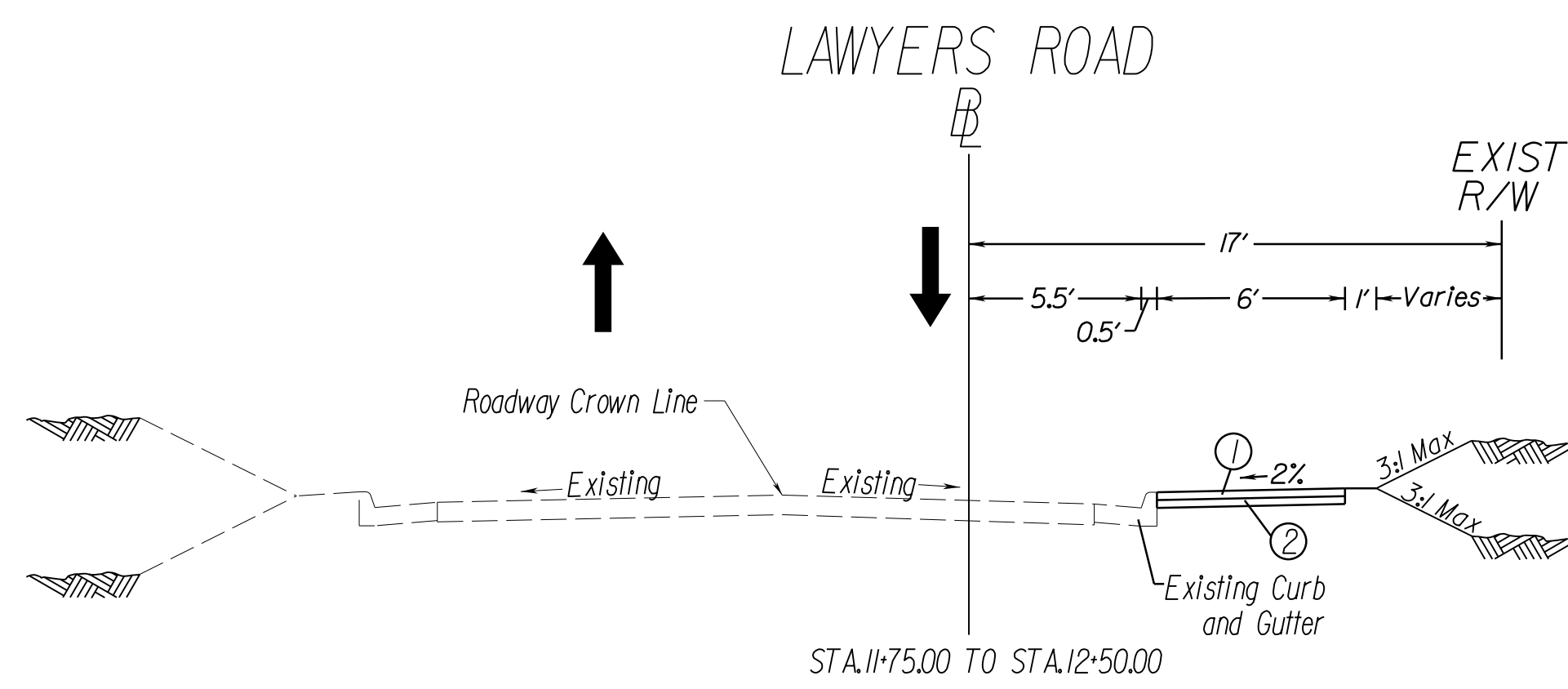
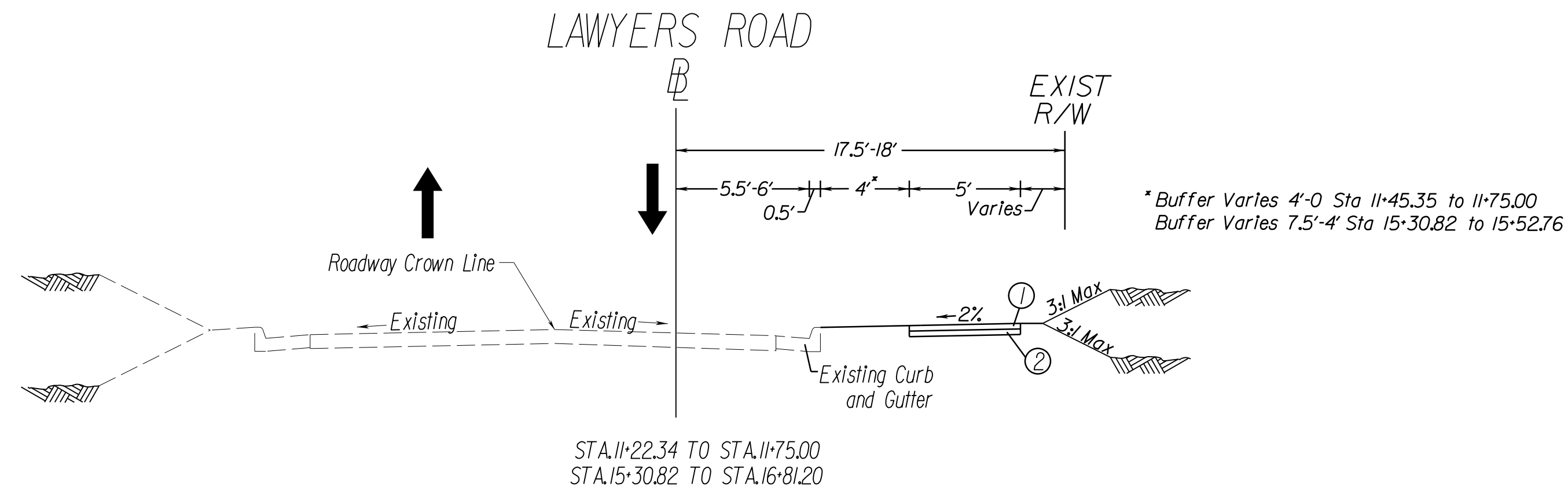
### PRIVATE ENTRANCE

TYPE III  
 Asphalt  
  
 Asphalt Conc. Type  
 SM-9.5A or SM-9.5D @ 220 Lbs. per S.Y.  
 4" Aggr. Base Mat'l. Ty. 1  
 No. 21A or 21B

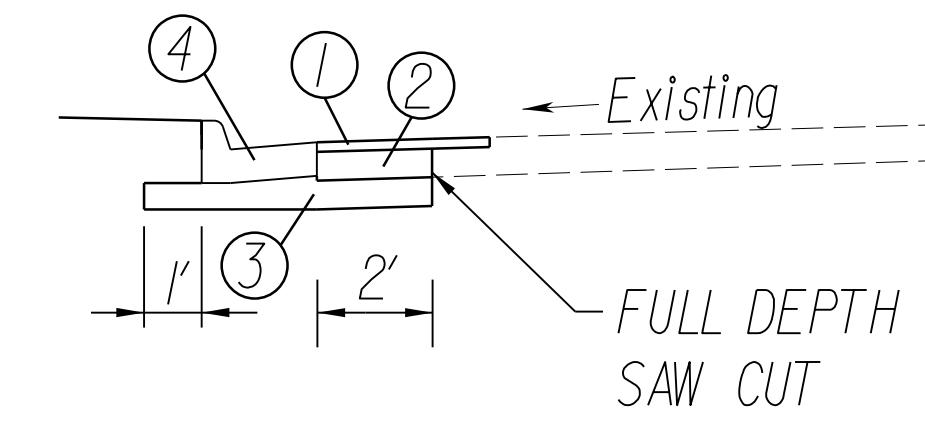


# TYPICAL SECTIONS AND DETAILS

NOT TO SCALE



## PAVEMENT REPAIR AND WEDGING DETAIL



Note:

All pavement repair and wedging shall be performed in accordance with VDOT standard WP-2.

## PAVEMENT LEGEND

- ① SURFACE - 2" ASPHALT CONCRETE, TYPE SM-9.5D  
ESTIMATED @ 182 LBS/SY
- ② BASE - 6.5" ASPHALT CONCRETE TYPE BM-25.0A
- ③ MIN. 8" AGGREGATE BASE MATERIAL TYPE 1 SIZE 21B,  
OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE,  
WHICHEVER IS GREATER
- ④ TOV STD. CURB AND GUTTER
- ⑤ 4" HYDRAULIC CEMENT CONCRETE CLASS A3 SIDEWALK REQ'D
- ⑥ 4" AGGREGATE BASE MATERIAL SIZE 21B

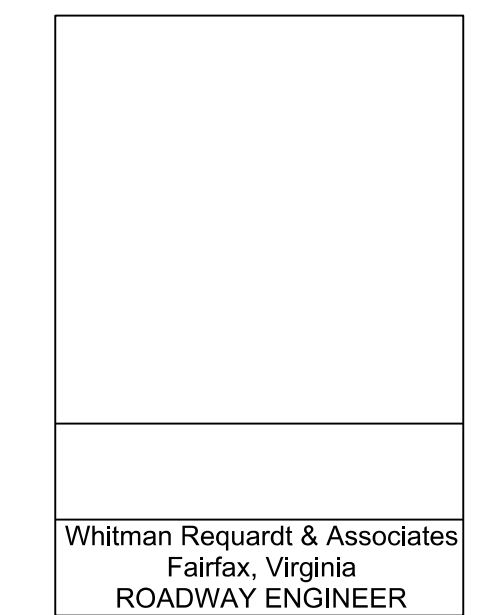
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CLIENT INFORMATION  
TOWN OF VIENNA, VA  
127 CENTER STREET SOUTH  
VIENNA, VA, 22180



TOWN OF  
VIENNA  
since 1890

BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS



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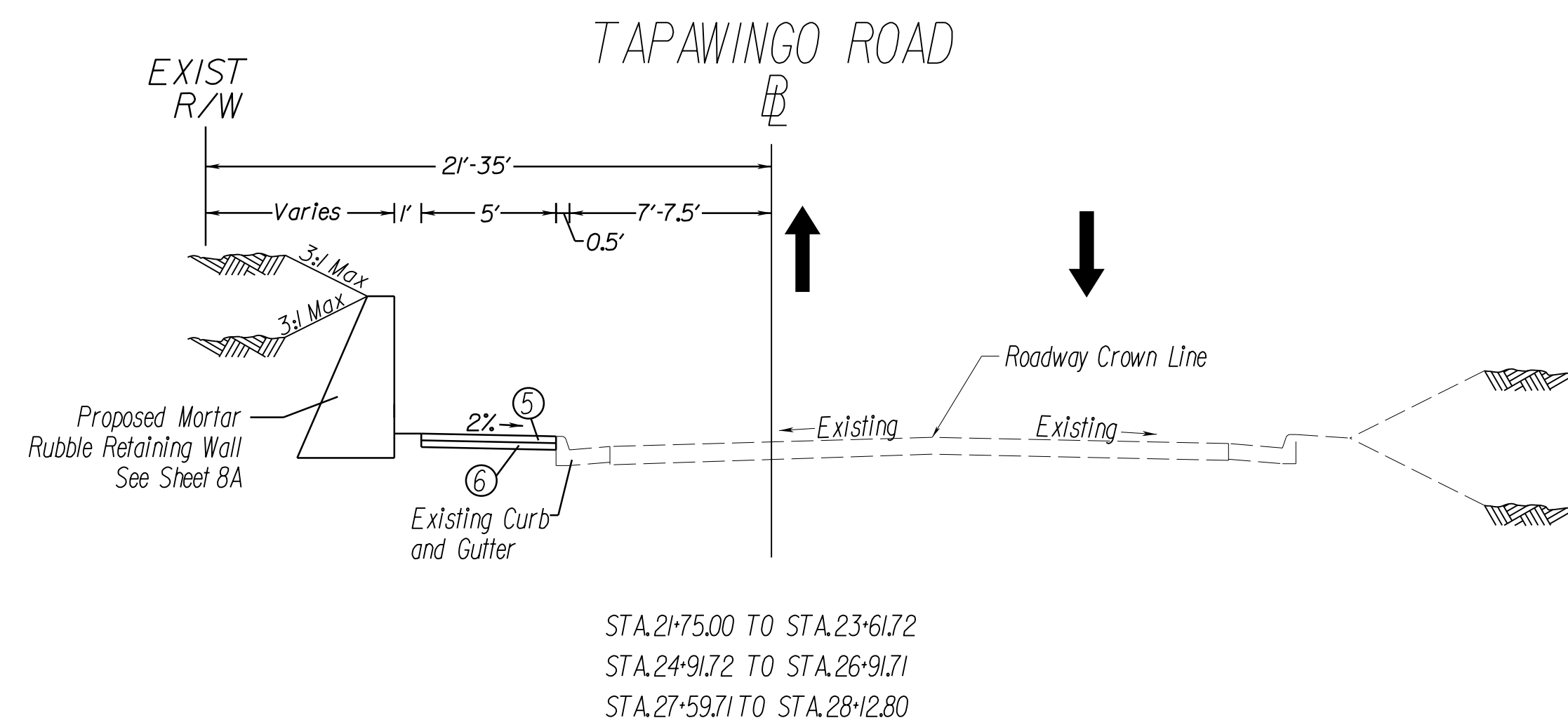
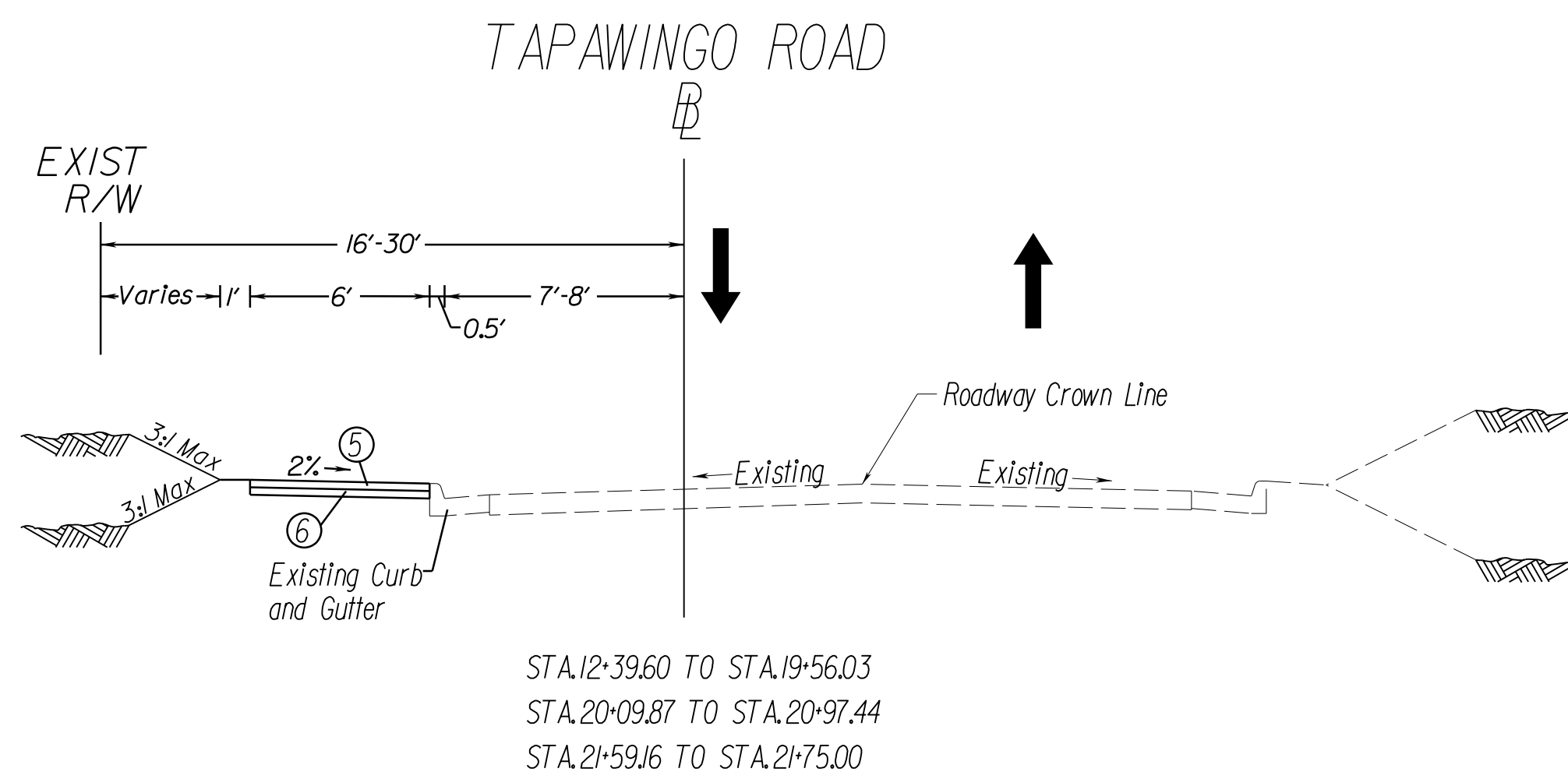
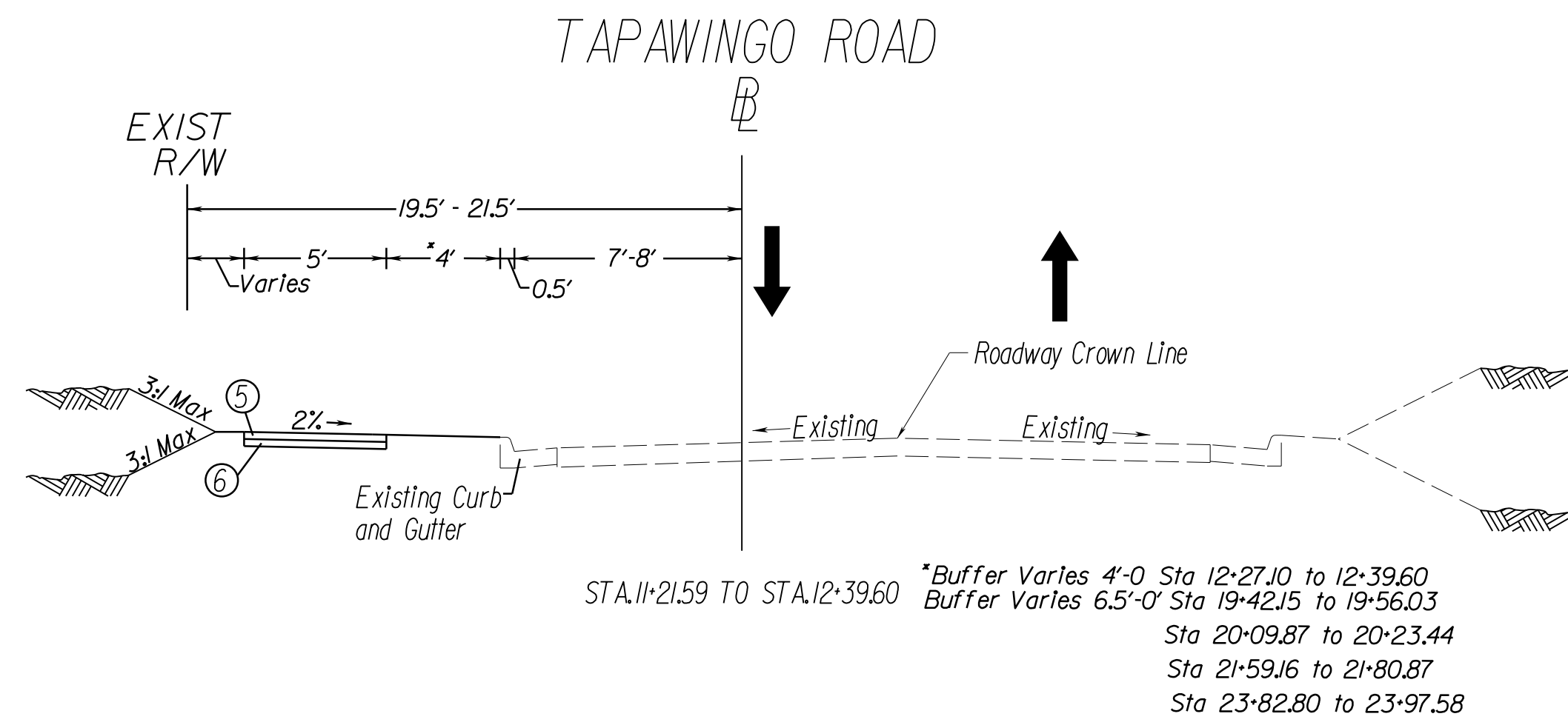
LAWYERS ROAD NW  
SIDEWALK  
TYPICAL SECTIONS

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| SCALE: N/A    |              |
| DATE: 07/2023 | SHEET: 2A(2) |
| DES: PS       | DRAWN: JZ    |
| CHECK: TL     |              |

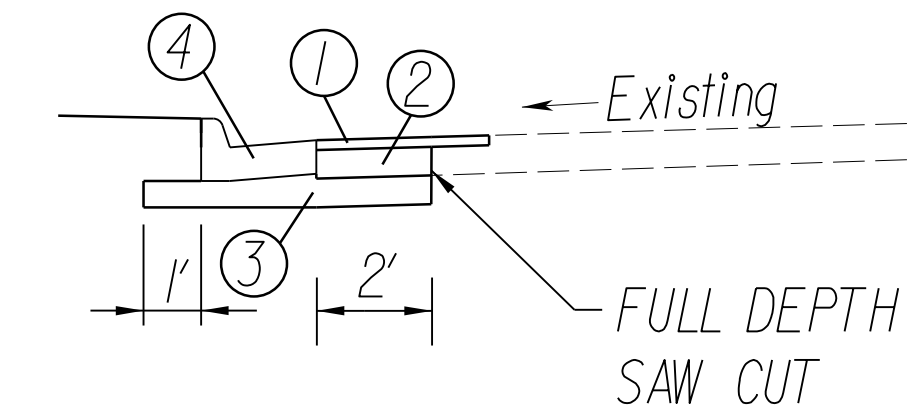


# TYPICAL SECTIONS AND DETAILS

NOT TO SCALE



## PAVEMENT REPAIR AND WEDGING DETAIL



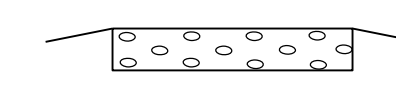
Note:  
 All pavement repair and wedging shall be performed in accordance with VDOT standard WP-2.

## PAVEMENT LEGEND

- ① SURFACE - 2" ASPHALT CONCRETE, TYPE SM-9.5D ESTIMATED @ 182 LBS/SY
- ② BASE - 6.5" ASPHALT CONCRETE TYPE BM-250A
- ③ MIN. 8" AGGREGATE BASE MATERIAL TYPE 1 SIZE 21B, OR EXTENDED TO THE BOTTOM OF EXISTING AGGREGATE, WHICHEVER IS GREATER
- ④ TOV STD. CURB AND GUTTER
- ⑤ 4" HYDRAULIC CEMENT CONCRETE CLASS A3 SIDEWALK REQ'D
- ⑥ 4" AGGREGATE BASE MATERIAL SIZE 21B

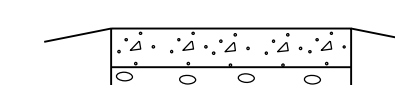
## PRIVATE ENTRANCES

TYPE I  
 Crusher Run Aggr.



6" Crusher Run Aggr. 25 or 26

TYPE II  
 Concrete



Concrete Entrance Pavement  
 7" HES  
 4" Aggr. Base Mat'l. Ty. 1  
 No. 21A or 21B

TYPE III  
 Asphalt



Asphalt Conc. Type  
 SM-9.5A or SM-9.5D @ 220 Lbs. per S. Y.  
 4" Aggr. Base Mat'l. Ty. 1  
 No. 21A or 21B

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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



**Whitman, Requardt & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
 SIDEWALK  
 TYPICAL SECTIONS**

|               |              |           |
|---------------|--------------|-----------|
| SCALE: N/A    |              |           |
| DATE: 07/2023 | SHEET: 2A(3) |           |
| DES: JZ       | DRAWN: JZ    | CHECK: TL |



# TYPICAL DETAILS

## NOT TO SCALE

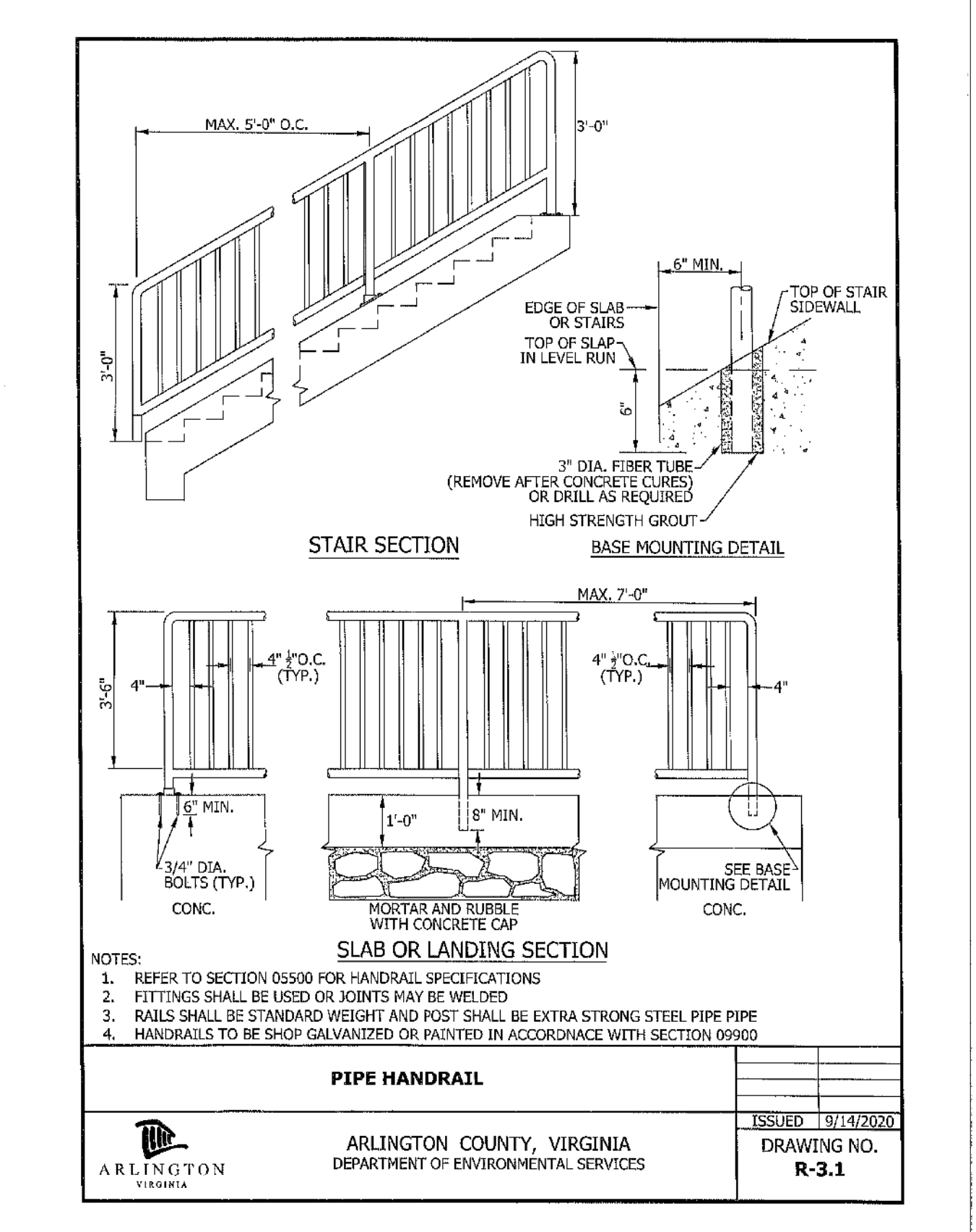
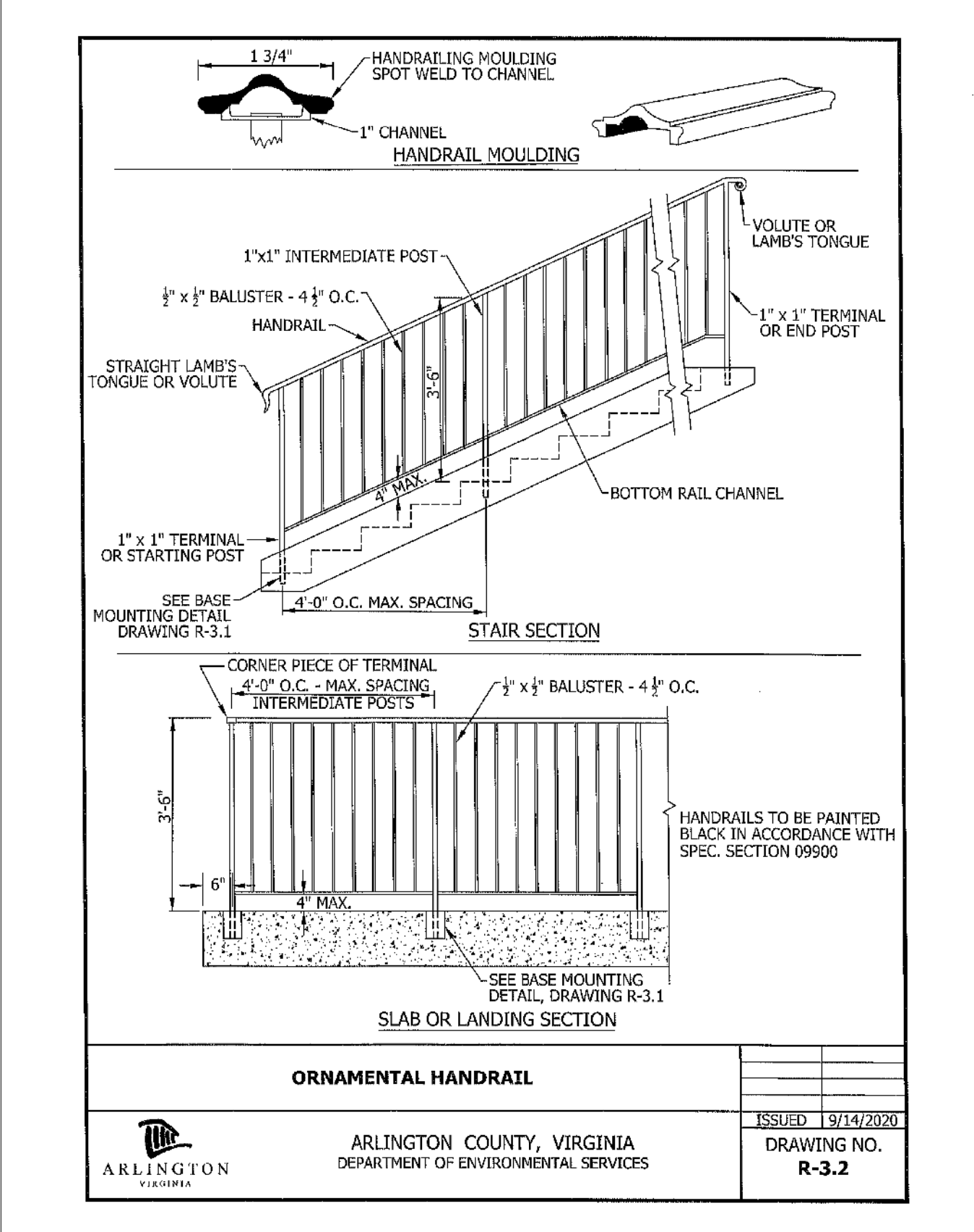
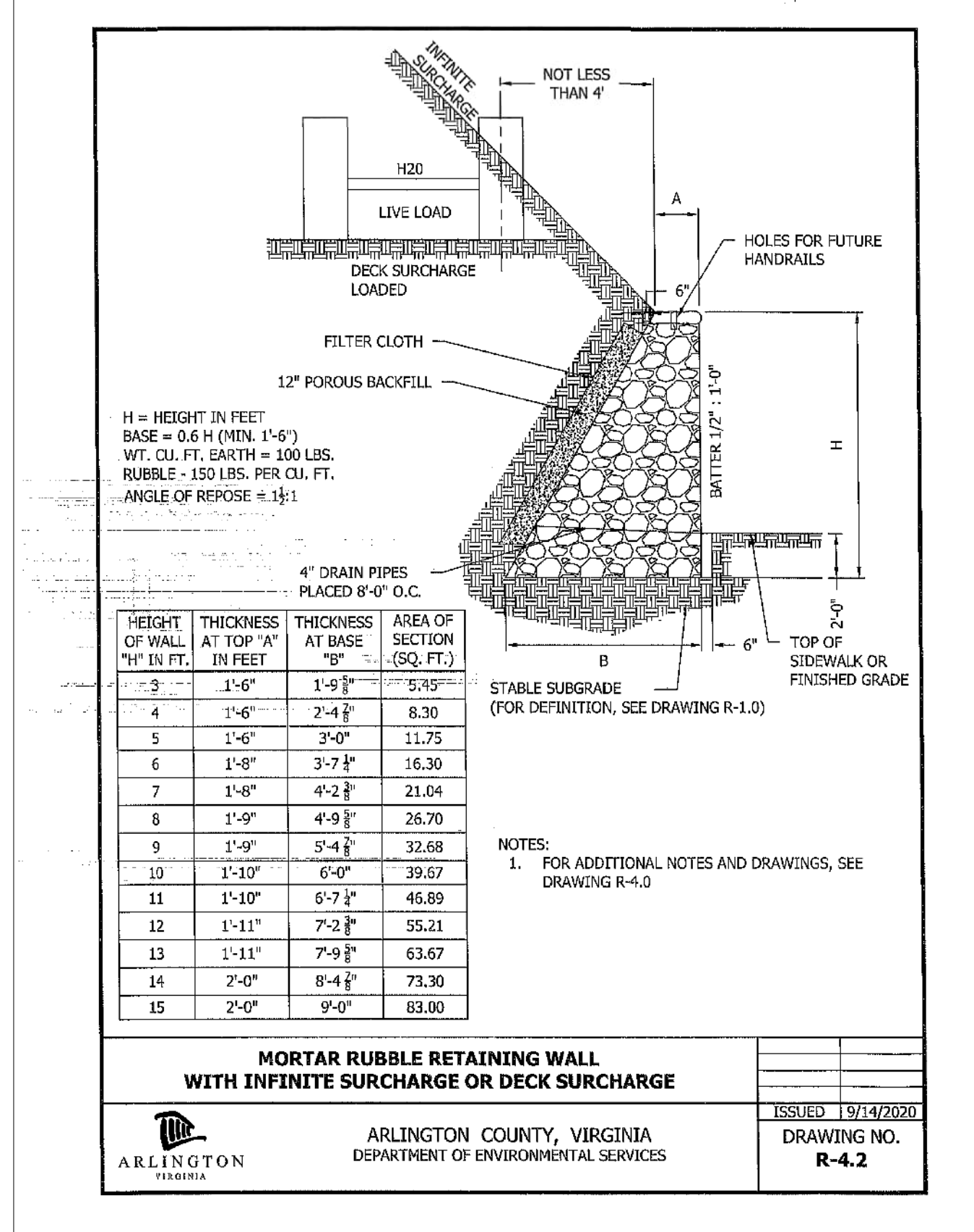
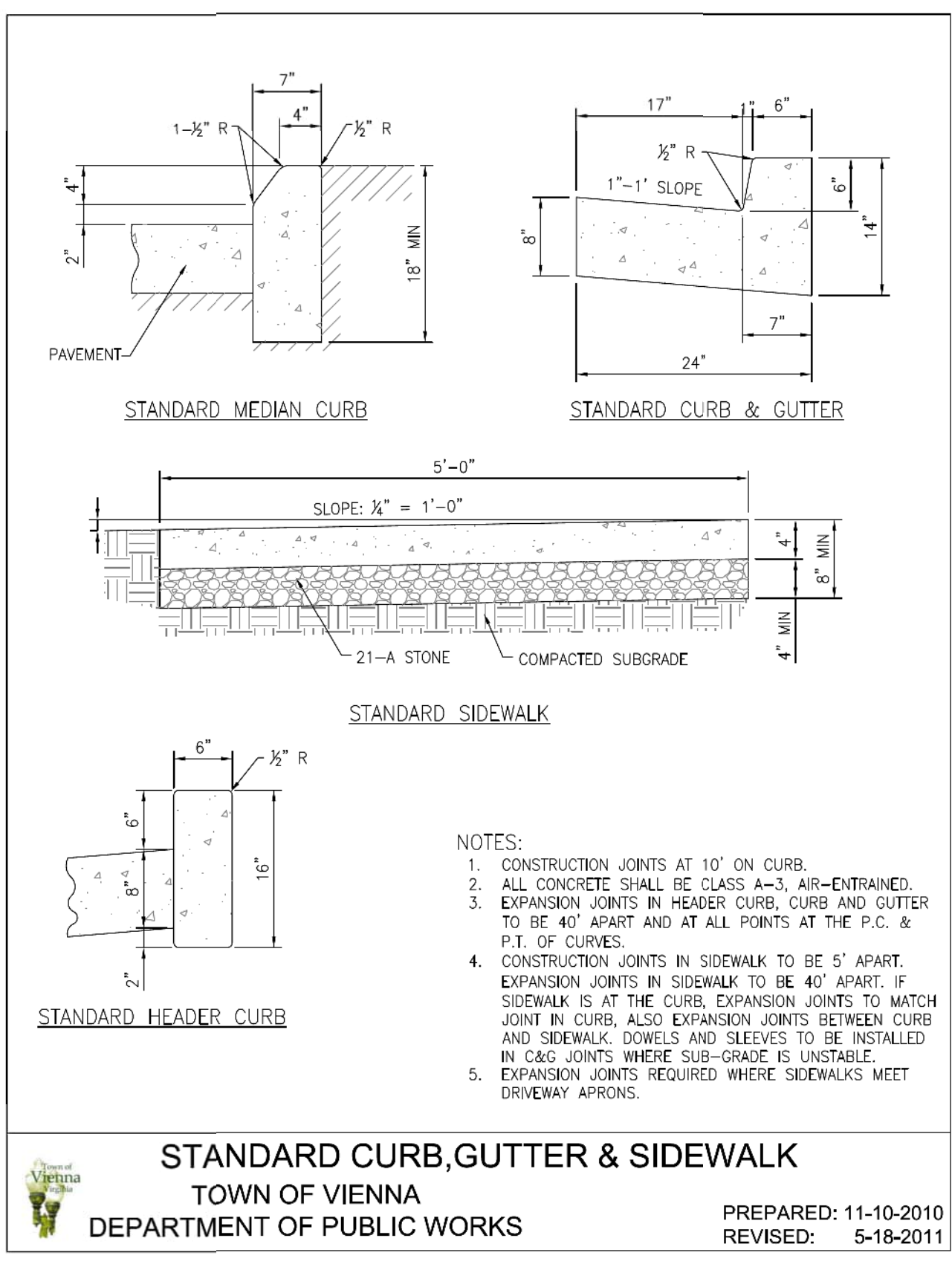
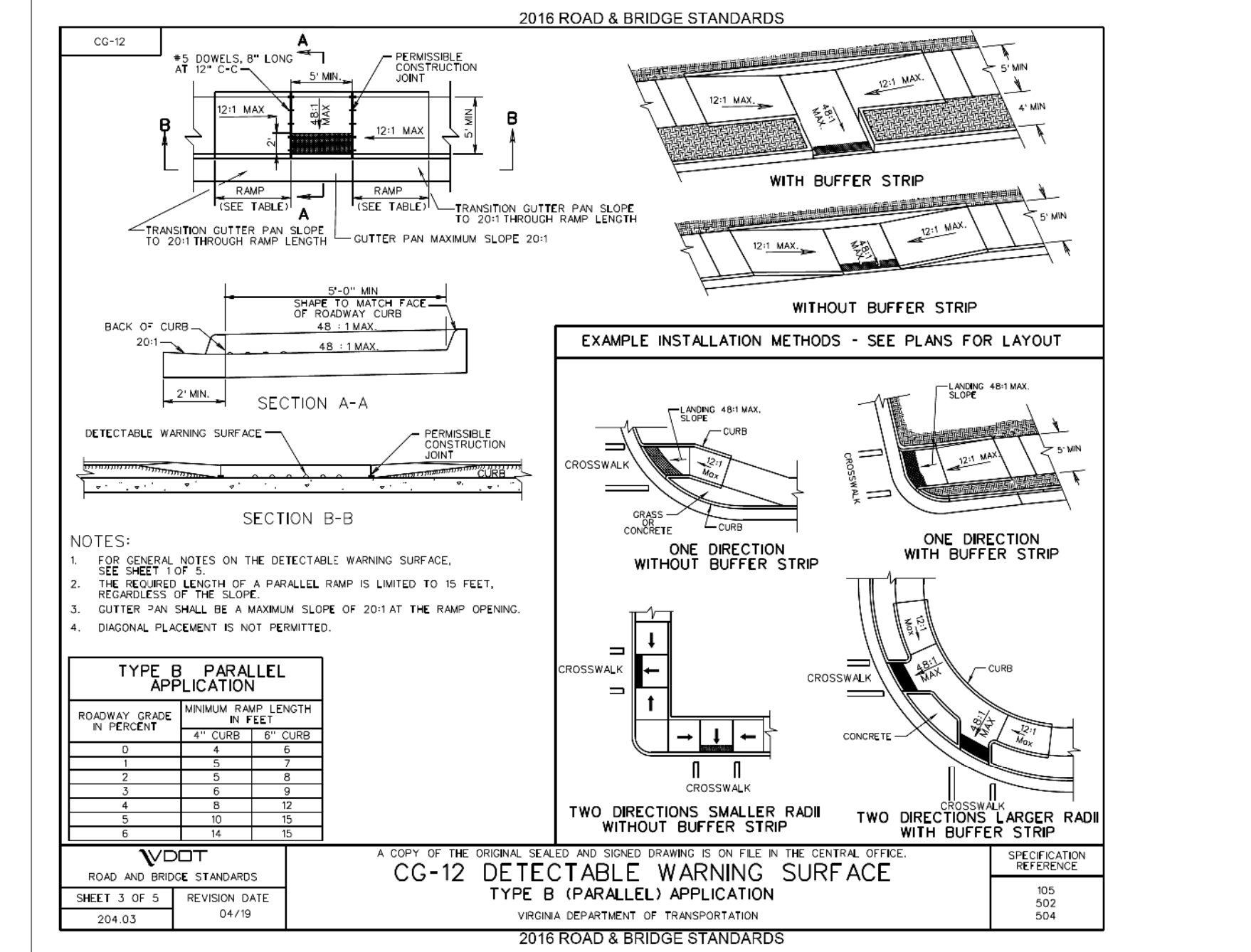
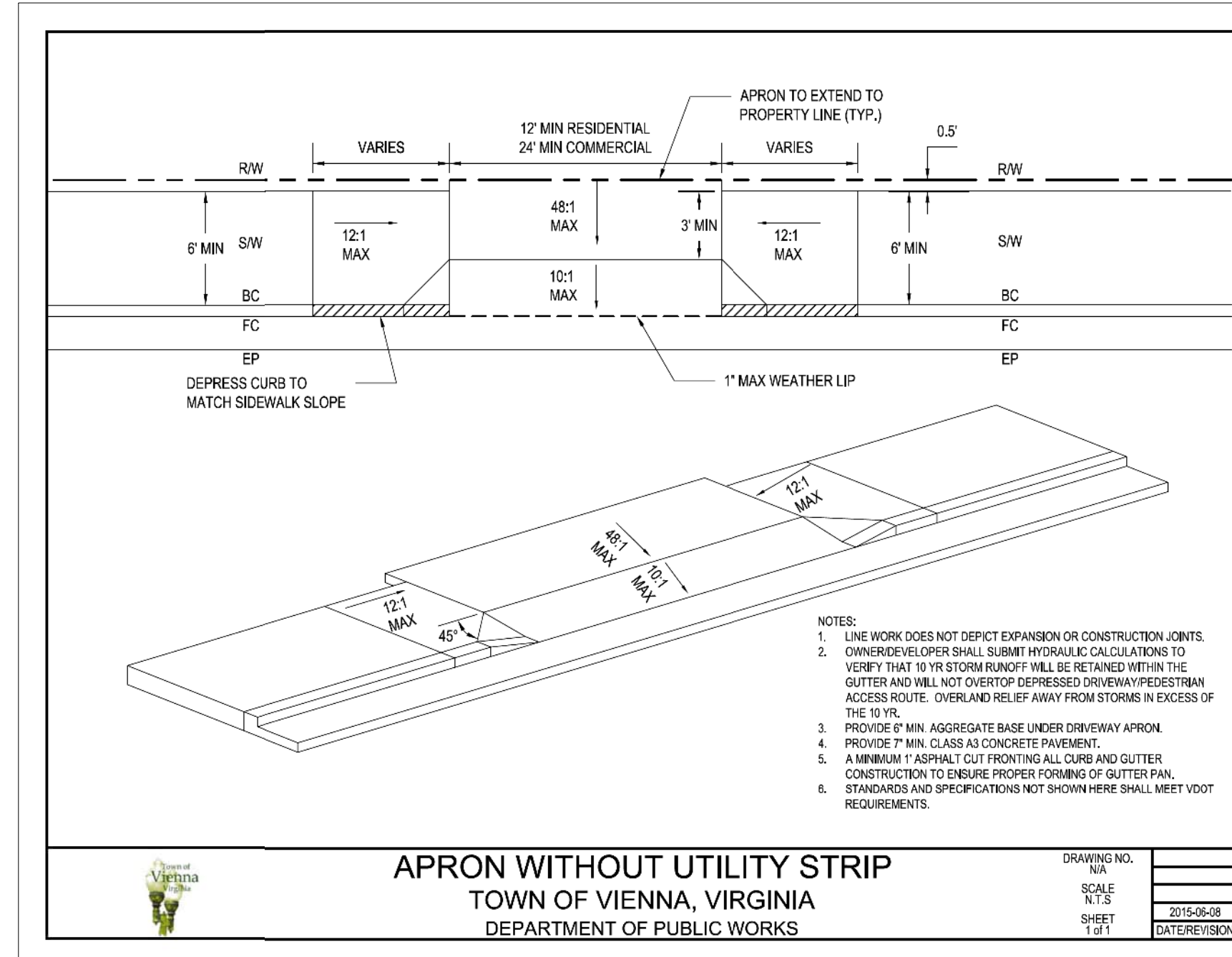
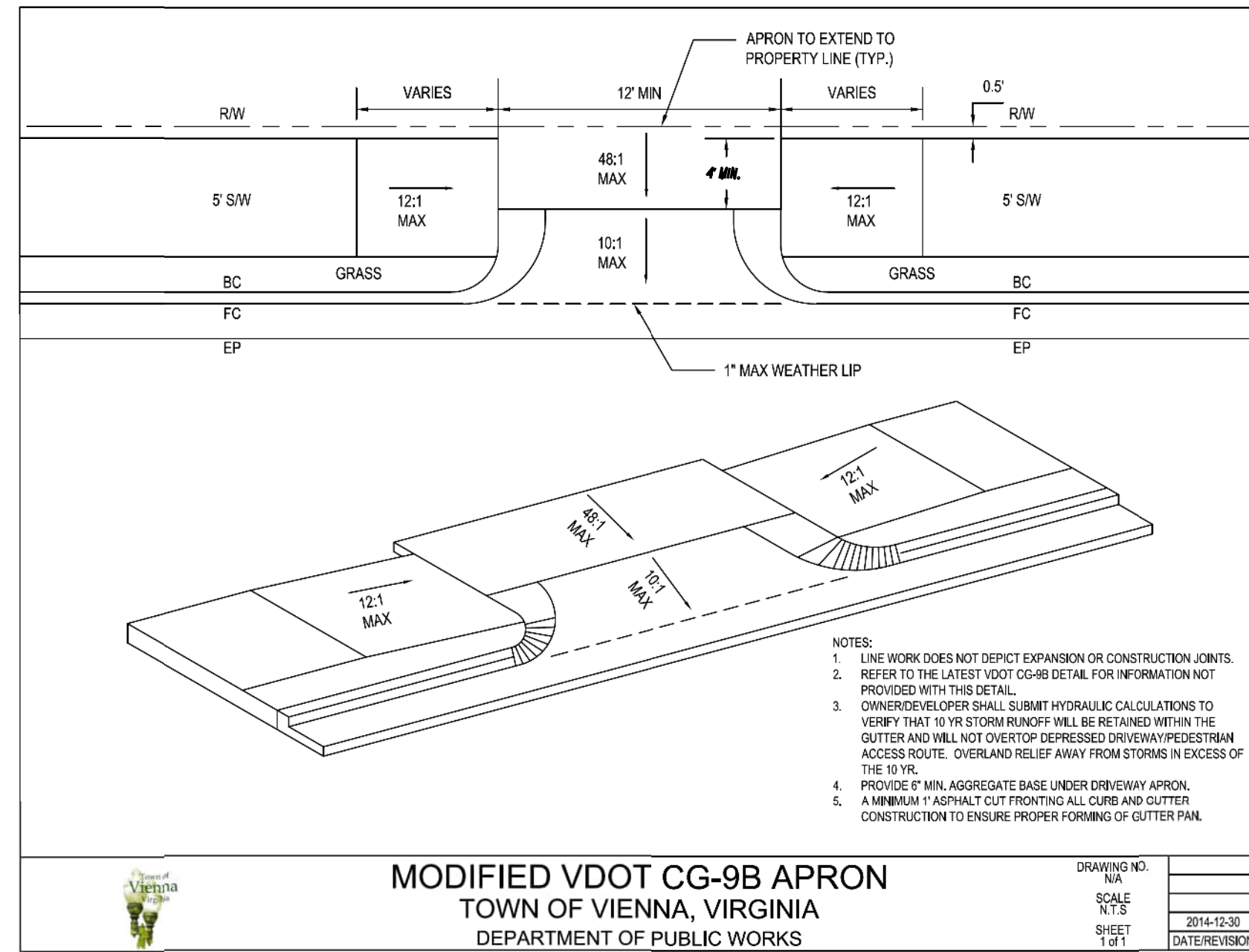
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

### BEULAH ROAD LAWYERS ROAD NW TAPAWINGO ROAD SW SIDEWALK IMPROVEMENTS



Whitman Reardon & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER

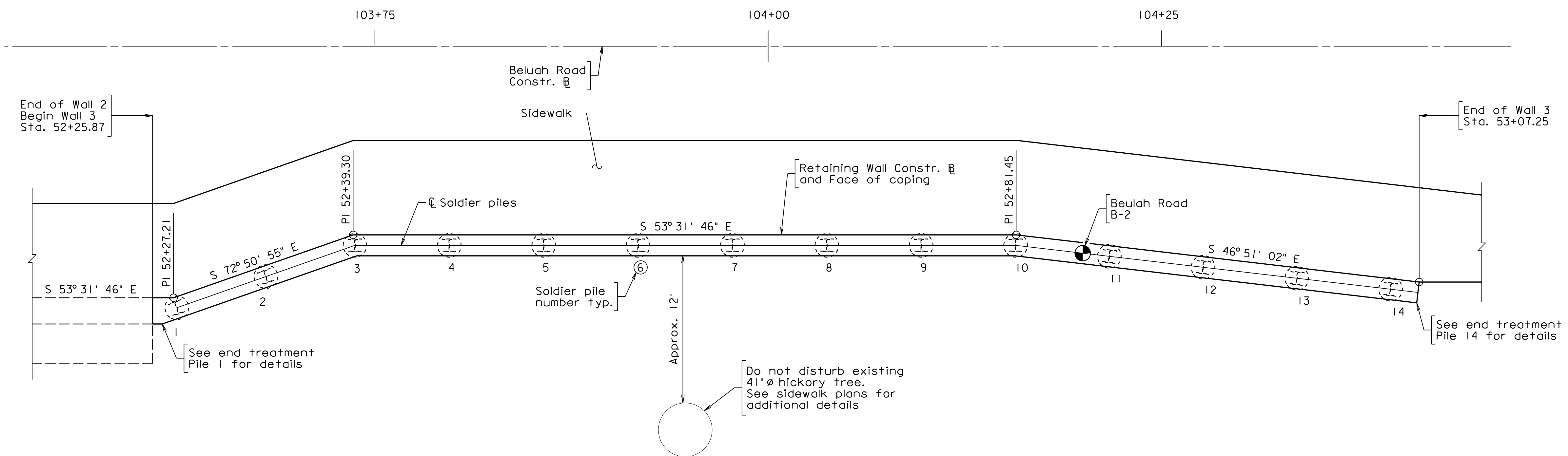
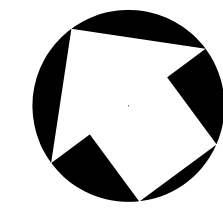


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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

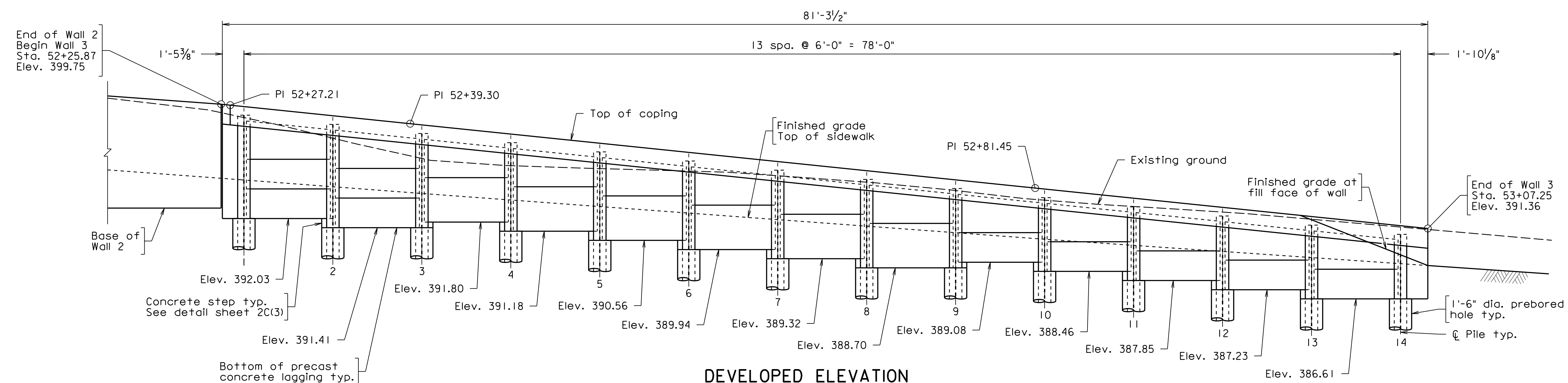
### TYPICAL DETAILS

SCALE: N/A  
 DATE: 07/2023 SHEET: 2B  
 DES: PS DRAWN: JZ CHECK: TL





PLAN



DEVELOPED ELEVATION

Shown along fill face of wall  
Ornamental handrail not shown for clarity

**RETAINING WALL GENERAL NOTES:**

**Specifications:**

- Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.
- Virginia Uniform Statewide Building Code, latest edition and applicable local ordinances as determined by the County of Fairfax Building Official.
- Standards: Virginia Department of Transportation Road and Bridge Standards, 2016, including all current revisions.
- Design: AASHTO LRFD Bridge Design Specifications 8th Edition, 2014; and VDOT Modifications.
- Virginia Construction Code, VCC (2018), Part I of the Virginia Uniform Statewide Building Code (USBC).

These plans are incomplete unless accompanied by the Specifications and any Special Provisions included in the contract documents.

Contractor shall be responsible for protecting existing utilities and shall repair or replace, at no additional cost, if damaged, as directed by the County.

The Contractor shall be responsible for obtaining all necessary permits from the Town of Vienna before beginning construction.

The Contractor shall field verify all dimensions, locations, and elevations of existing structures and utilities shown on the current drawings. All discrepancies between field conditions and these plans shall be brought to the attention of the Engineer/Owner before proceeding with work that is directly affected by the discrepancy.

For details of the Retaining Wall Constr. &, see sheet 3A

For details and additional notes related to the soldier pile wall, see sheets 2C(2) through 2C(5).

For details and notes related to Wall 2, see sheet 3A.

● Denotes boring location. See geotechnical memo included in the contract documents for boring log.

| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
127 CENTER STREET SOUTH  
VIENNA, VA, 22180



TOWN OF  
**VIENNA**  
since 1890

**BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS**



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**WALL 3  
SOLDIER PILE WALL  
PLAN AND ELEVATION**

SCALE: 1/4" = 1'-0"  
DATE: 07/2023 SHEET: 2C(1)  
DES: BDM DRAWN: BDM CHECK: TAB



**SUGGESTED SEQUENCE OF CONSTRUCTION AND GENERAL REQUIREMENTS:**

1. Set up erosion and sediment controls and tree protection fencing.
2. Clear and grub the area for the wall construction.
3. Place all erosion and sediment perimeter controls in accordance with the approved erosion and sediment control plan. These controls shall remain in place and be continuously maintained during all construction.
4. Grade a bench along the proposed wall alignment wide enough to accommodate the drilling equipment required to install the prebored holes and soldier piles for the retaining wall.
5. Once the area has been prepared for the drilling of the prebored holes the Contractor may proceed with the drilling operation.
6. The prebored holes shall be drilled as indicated in the plans.
7. Once the prebored hole is drilled, the Contractor shall place the pile inside the prebored hole and prepare the hole for pouring of the concrete. Particular attention must be given to the placement of the pile to insure that the alignment of the proposed wall is maintained.
8. The concrete shall be placed in one continuous operation in accordance with the plans and Specifications. Concrete shall be placed to the bottom of future concrete lagging panels.
9. Once the prebored hole and soldier pile is placed, the Contractor shall exercise extreme care so as not to damage the pile or prebored hole. Any damages shall be repaired to the satisfaction of the Engineer at the sole expense of the Contractor.
10. Install the concrete step where needed to level lagging panels.
11. Soil shall be excavated vertically to a maximum depth as permitted by the soil. The exposed width of excavation shall be limited to a maximum of four bays. No exposed soil shall be left open for prolonged period or during unsuitable weather conditions.
12. Staple geocomposite drainage layer to the exposed soil face. The fabric shall be laid flat to cover the soil completely with adjacent panels overlapped by minimum 6 inches and bonded using approved adhesive.
13. Once drainage fabric is in place, concrete lagging panels shall be installed. Contractor shall place the #68 between the concrete panels and drainage composite. Care shall be taken to not damage the drainage layer during placement of stone backfill. The stone backfill shall be protected at the surface by a geotextile fabric to prevent mud and silt from fouling the stone.
14. All excavation material shall be removed to an approved stockpile or disposal site.
15. The top coping and pile encasement shall be placed once the precast panels have been placed.
16. Once the precast panels have been placed the Contractor may fine grade the areas behind the top of the wall. Extreme care shall be taken so as not to damage the concrete wall construction.

**Notes:**

The Contractor shall be responsible for selecting the appropriate means and methods to construct the pile and lagging wall as shown on the drawings. All work shall be performed within working limits shown on the drawings.

Field verify all dimensions, locations, and elevations shown on the Contract Drawings for existing structures. All discrepancies shall be brought to the attention of the Engineer before proceeding with the work.

The Contractor shall submit the means of horizontally locating and installing the piles, such that the piles can be installed to a tolerance which enables the wall to be constructed as shown. Piles shall be installed within 1 inch of their horizontal location, within 25 degrees of their planned axis, and shall not be out of plumb more than 0.75 inches in 10 feet. Prebored holes shall be backfilled with T3 self-consolidating concrete or an approved equal. Cost of preboring and concrete backfill shall be incidental to other pay items.

Bond breaker shall be an approved form-coating material that will prevent adherence of concrete. Material that will adhere to or discolor concrete shall not be used. Surfaces shall be treated with bond breaker immediately before concrete placement.

All reinforcing steel shall be deformed and conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

Piles shall be HP10x42 conforming to Section 403 of the Specifications and structural carbon requirements of ASTM A572, Grade 50. Steel H Piles shall be galvanized in accordance with ASTM A123 and with Section 233 of the Specifications.

Concrete for precast concrete lagging panels shall be Class A4 in accordance with Section 217 of the specifications.

Geocomposite wall drain shall conform to Section 245.03(f) of the Specifications.

Precast concrete lagging panels shall be installed in a top down manner.

Excavations shall be held to the minimum necessary to install the lagging. Voids behind the precast lagging shall be filled with VDOT #68 stone conforming to Section 203 of the specifications.

For details of the Soldier Pile Wall, see sheets 2C(3) through 2C(5).


**Design loads and criteria**

All loads indicated below are unfactored

1. Risk category: ii
2. Dead Loads:
  - A. Structures: actual weight
  - B. Weight of soil: 120 pcf for dead load
  - C. Earth pressure coefficients:
    - i. Active:  $k_a = 0.33$
    - ii. At-Rest:  $k_o = 0.5$
    - iii. Passive:  $k_p = 3.0$
3. Live Loads:
  - A. Guardrail: 200 lbs at each post or 50 pif along the top rail, whichever is greater.
  - B. 50 lb load applied on vertical pickets over a one square foot area at any point.

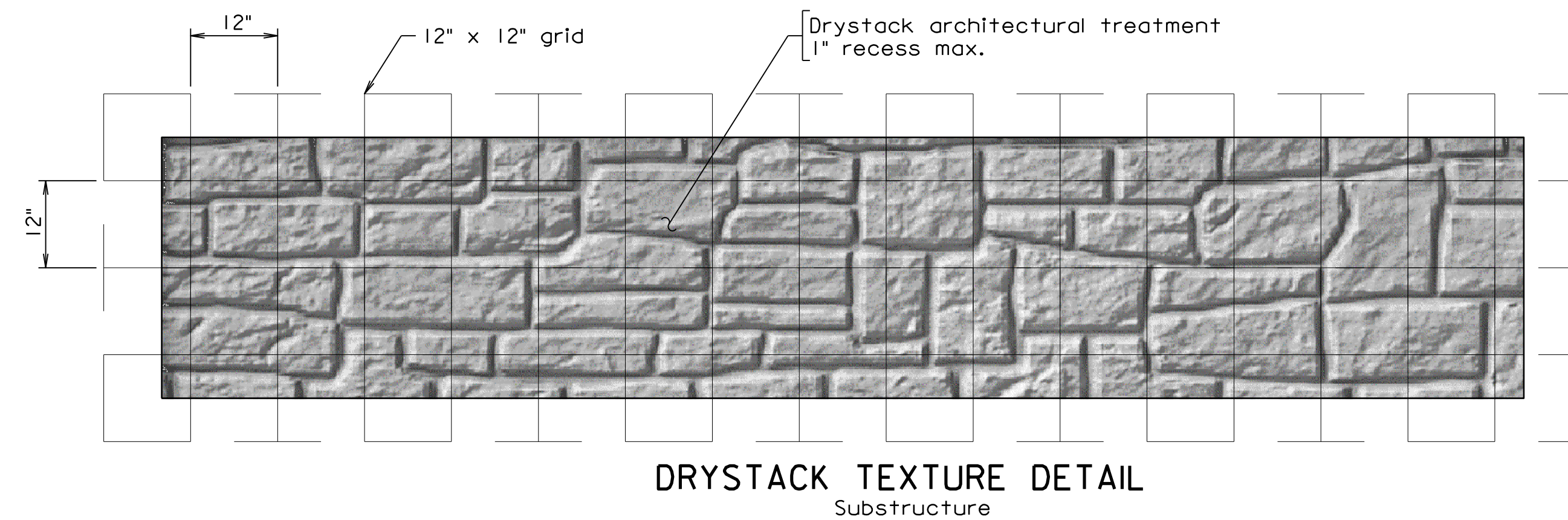
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



TOWN OF  
**VIENNA**  
since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



**Notes:**

- Architectural treatment for Wall 3 shall simulate drystack texture, similar to the pattern detailed on this sheet.
- Concrete formliner pattern shall be drystack similar to the pattern detailed on this sheet. Maximum relief shall be 1".
- Limits of concrete color surface coating are indicated on the substructure elements.
- Color for Concrete color surface coating shall be grey, similar to AMS Standard Color No. 595-26373.
- For additional details and requirements not shown, see Special Provisions for Architectural Treatment.

| SOLDIER PILE LOCATION DATA |          |        |                |
|----------------------------|----------|--------|----------------|
| Soldier pile no.           | Station  | Offset | Min. tip elev. |
| 1                          | 52+27.19 | 0.674  | 376.00         |
| 2                          | 52+33.19 | 0.667  | 376.00         |
| 3                          | 52+39.41 | 0.667  | 376.00         |
| 4                          | 52+45.41 | 0.667  | 376.00         |
| 5                          | 52+51.41 | 0.667  | 373.00         |
| 6                          | 52+57.41 | 0.667  | 373.00         |
| 7                          | 52+63.41 | 0.667  | 373.00         |
| 8                          | 52+69.41 | 0.667  | 373.00         |
| 9                          | 52+75.41 | 0.667  | 373.00         |
| 10                         | 52+81.41 | 0.667  | 373.00         |
| 11                         | 52+87.49 | 0.667  | 371.00         |
| 12                         | 52+93.49 | 0.667  | 371.00         |
| 13                         | 52+99.49 | 0.667  | 371.00         |
| 14                         | 53+05.49 | 0.667  | 371.00         |

See Soldier Pile Section for additional information on location.



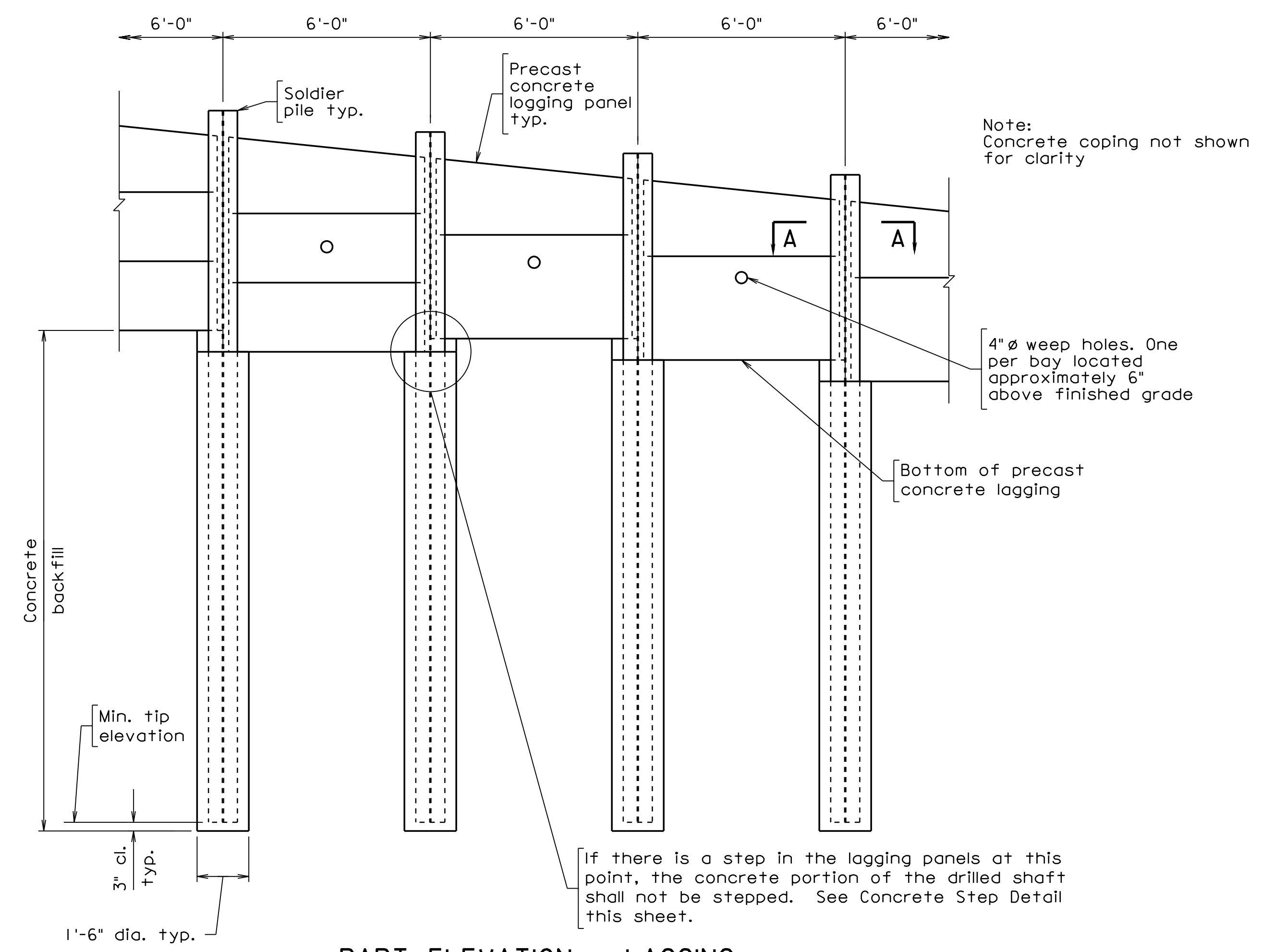
**Whitman, Requardt & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**WALL 3  
 SOLDIER PILE WALL  
 NOTES AND SEQUENCE  
 OF CONSTRUCTION**

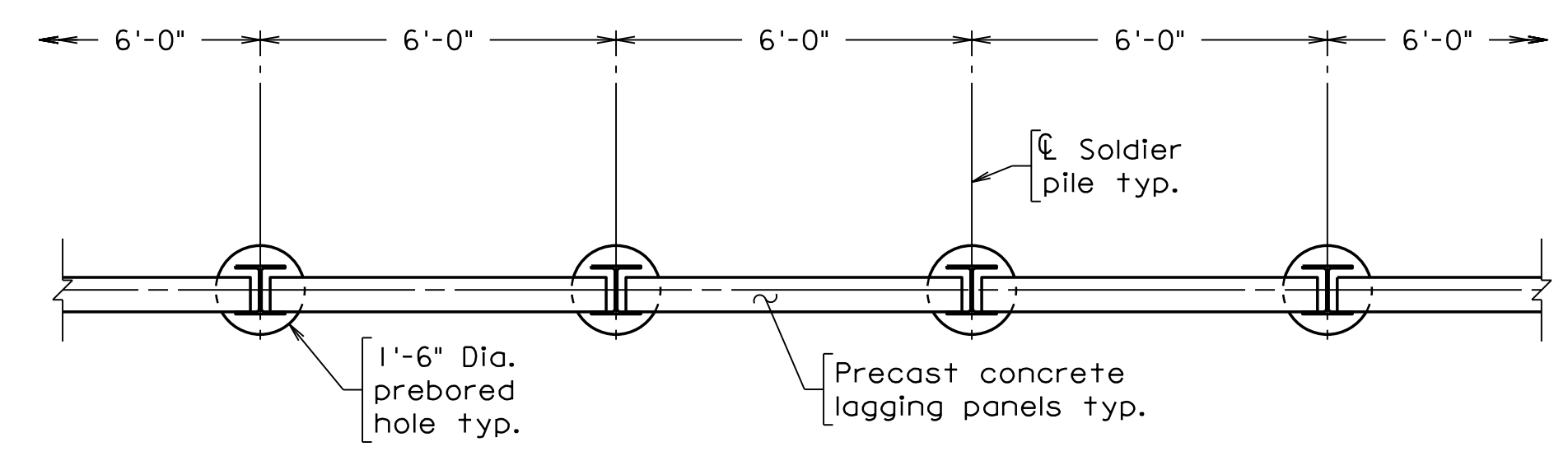
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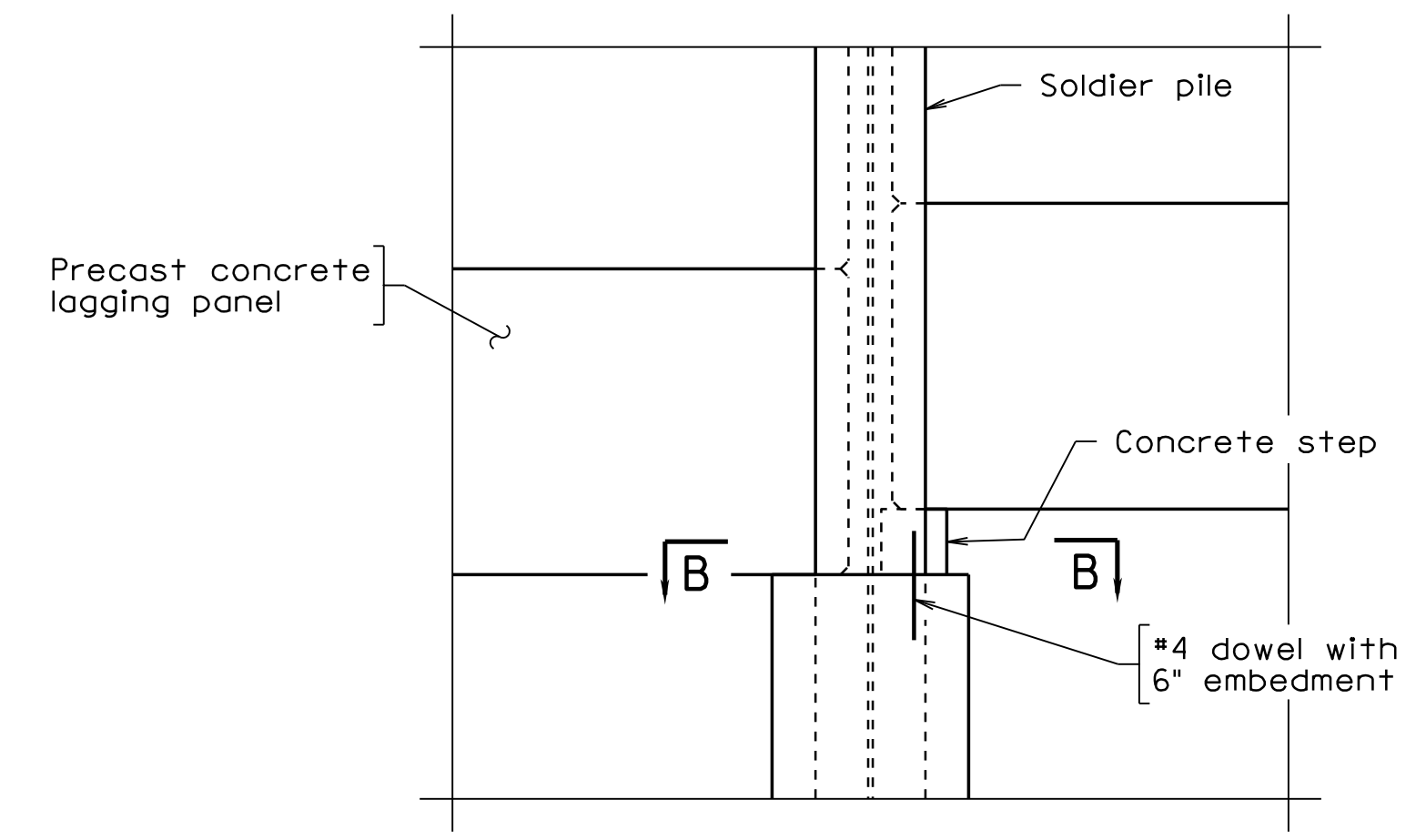
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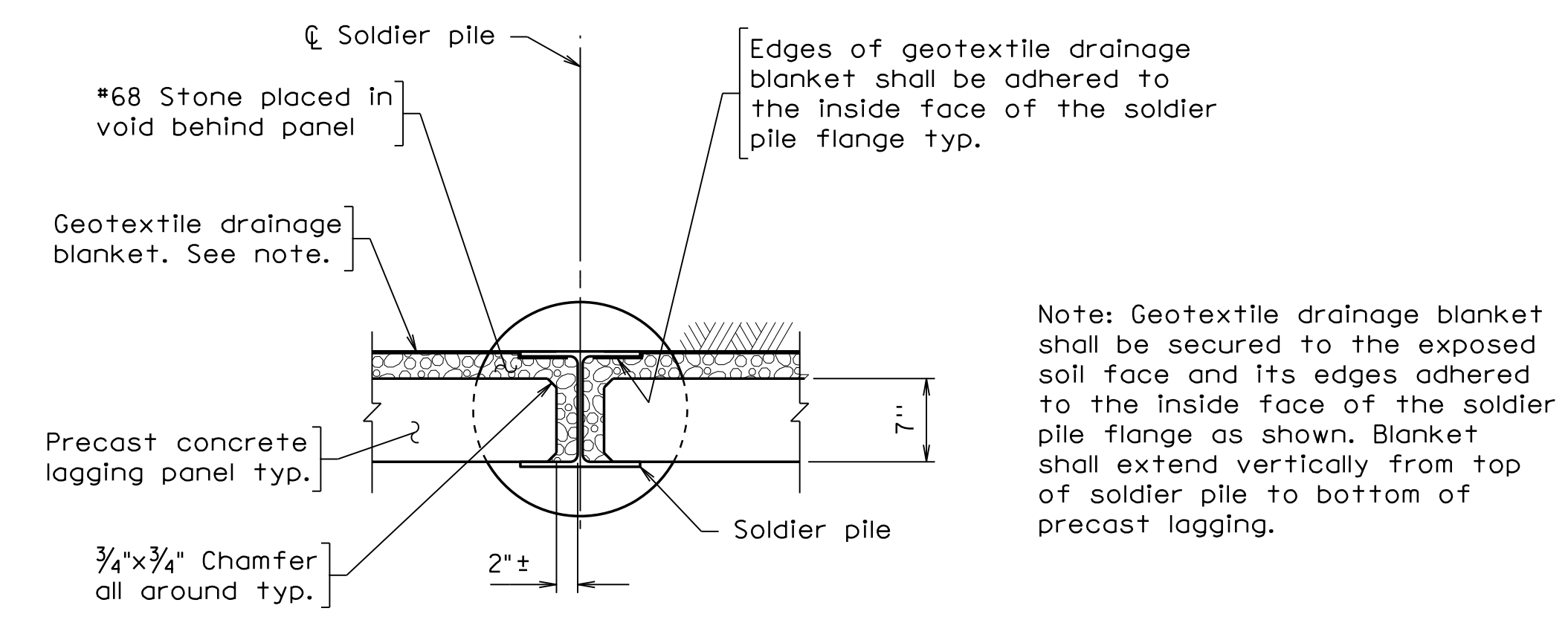
**PART ELEVATION - LAGGING AND SOLDIER PILES**  
Scale: 3/8" = 1'-0"



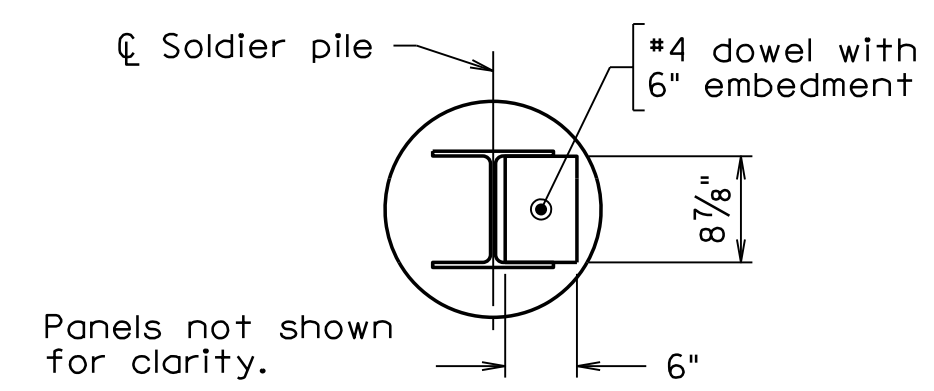
**PART PLAN - LAGGING AND SOLDIER PILES**  
Scale: 3/8" = 1'-0"



**CONCRETE STEP DETAIL**  
Scale: 3/4" = 1'-0"



**SECTION A-A**  
Scale: 1" = 1'-0"



**SECTION B-B**  
Scale: 3/4" = 1'-0"

CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
127 CENTER STREET SOUTH  
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TOWN OF  
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**BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS**



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**WALL 3  
SOLDIER PILE WALL  
LAGGING DETAILS  
SHEET 1 OF 2**

SCALE: AS NOTED  
DATE: 07/2023 SHEET: 2C(3)  
DES: BDM DRAWN: BDM CHECK: TAB



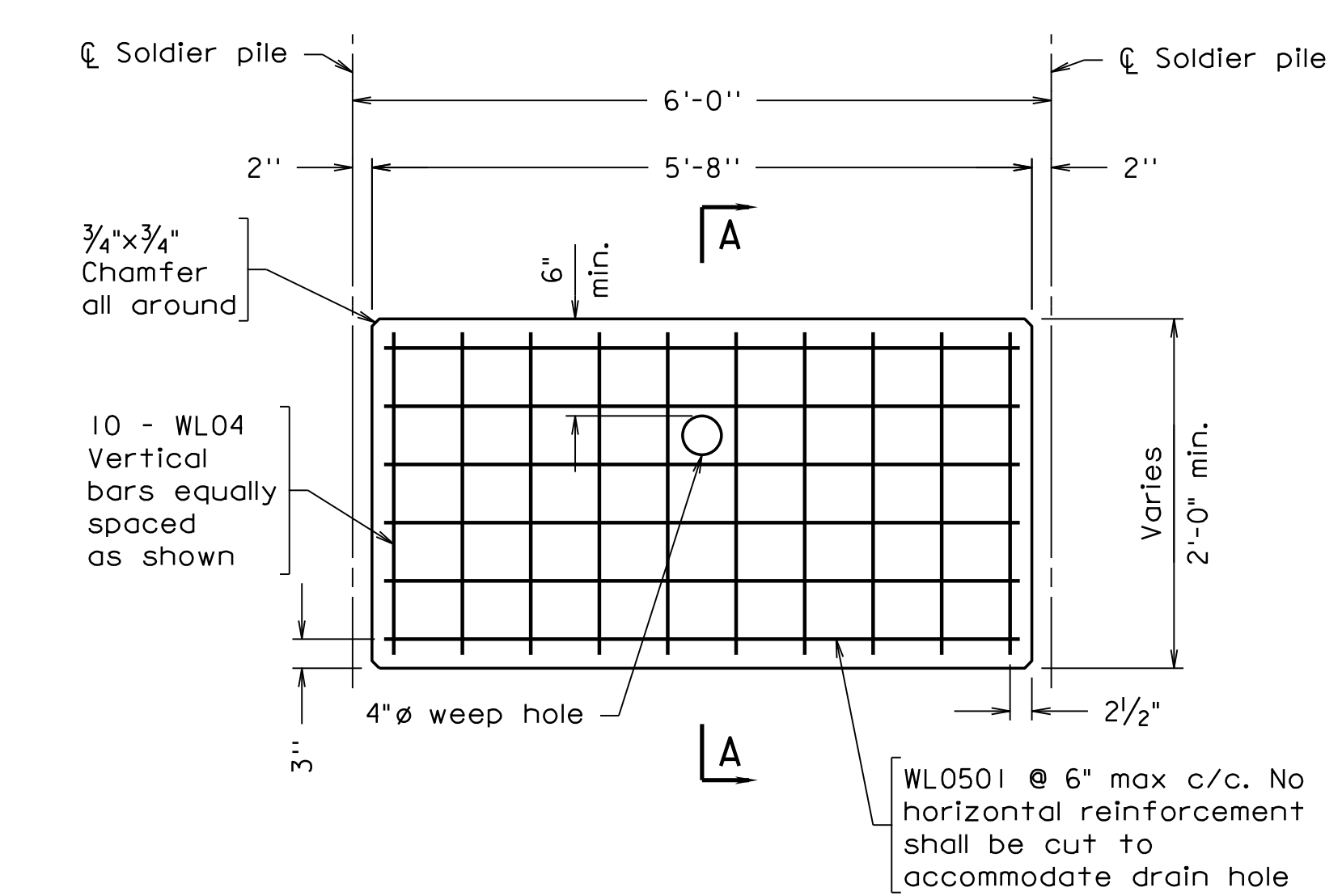
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180

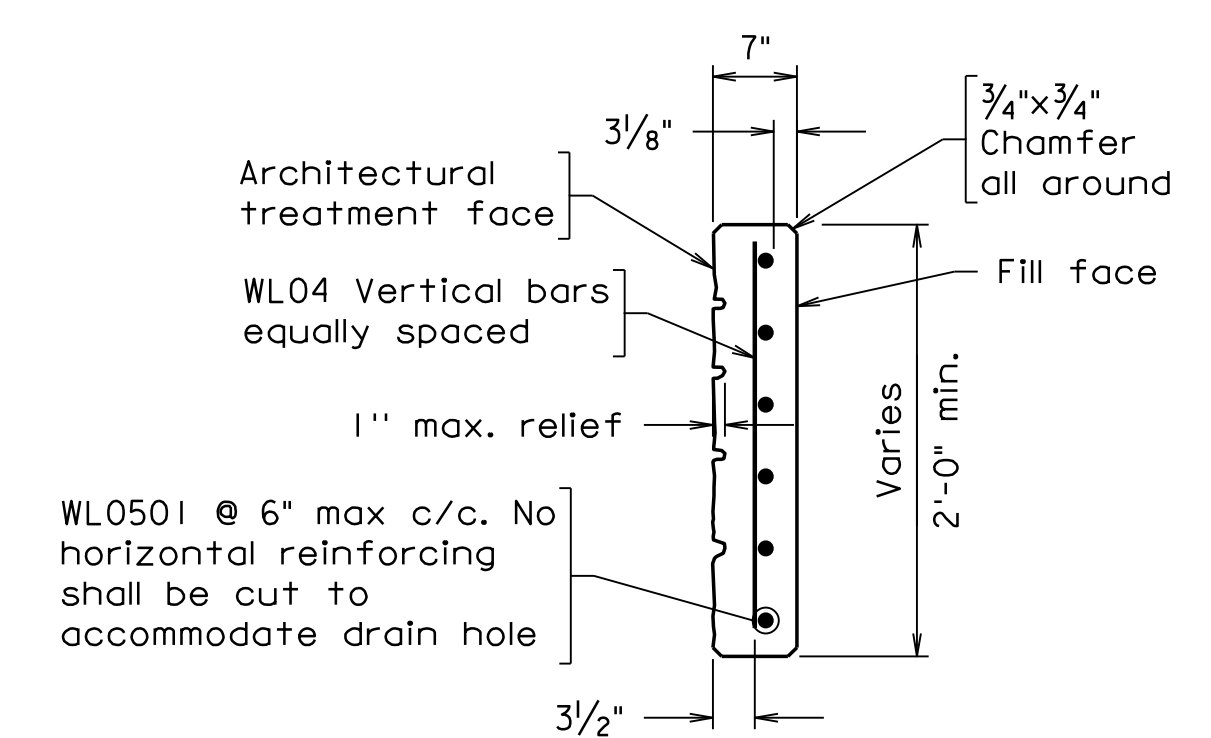


TOWN OF  
**VIENNA**  
 since 1890

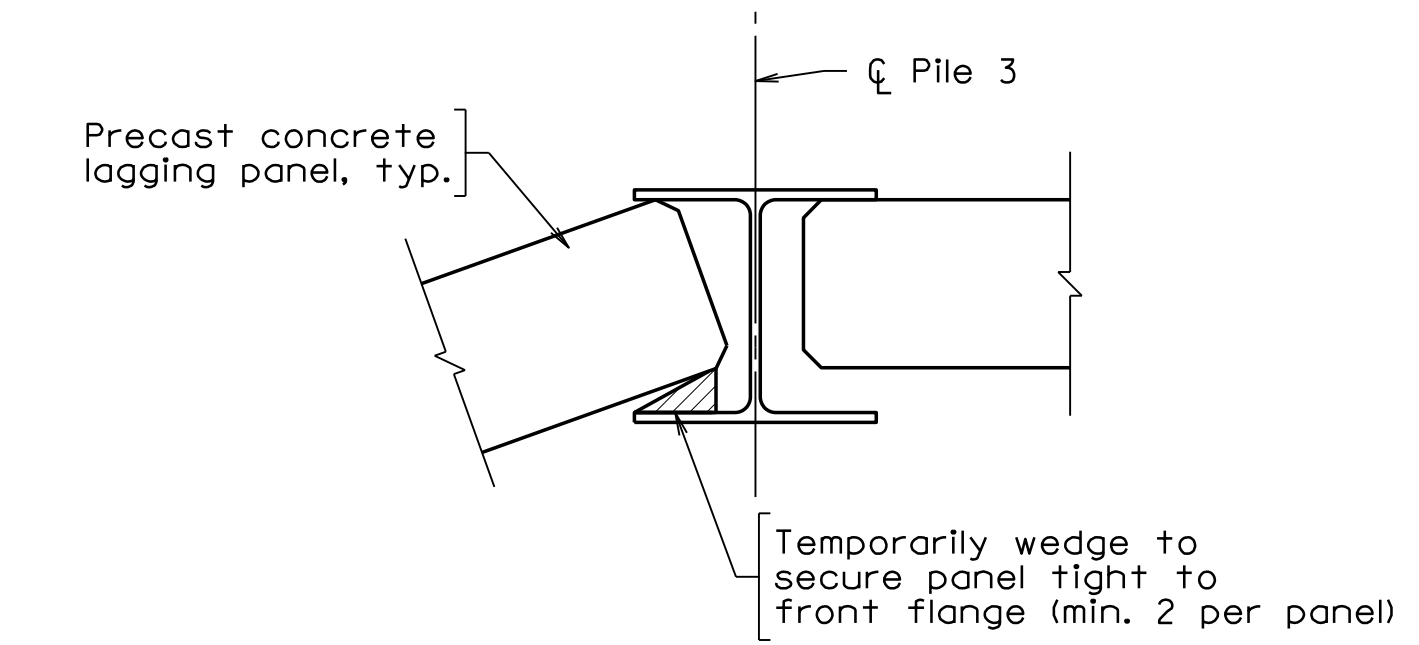
**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



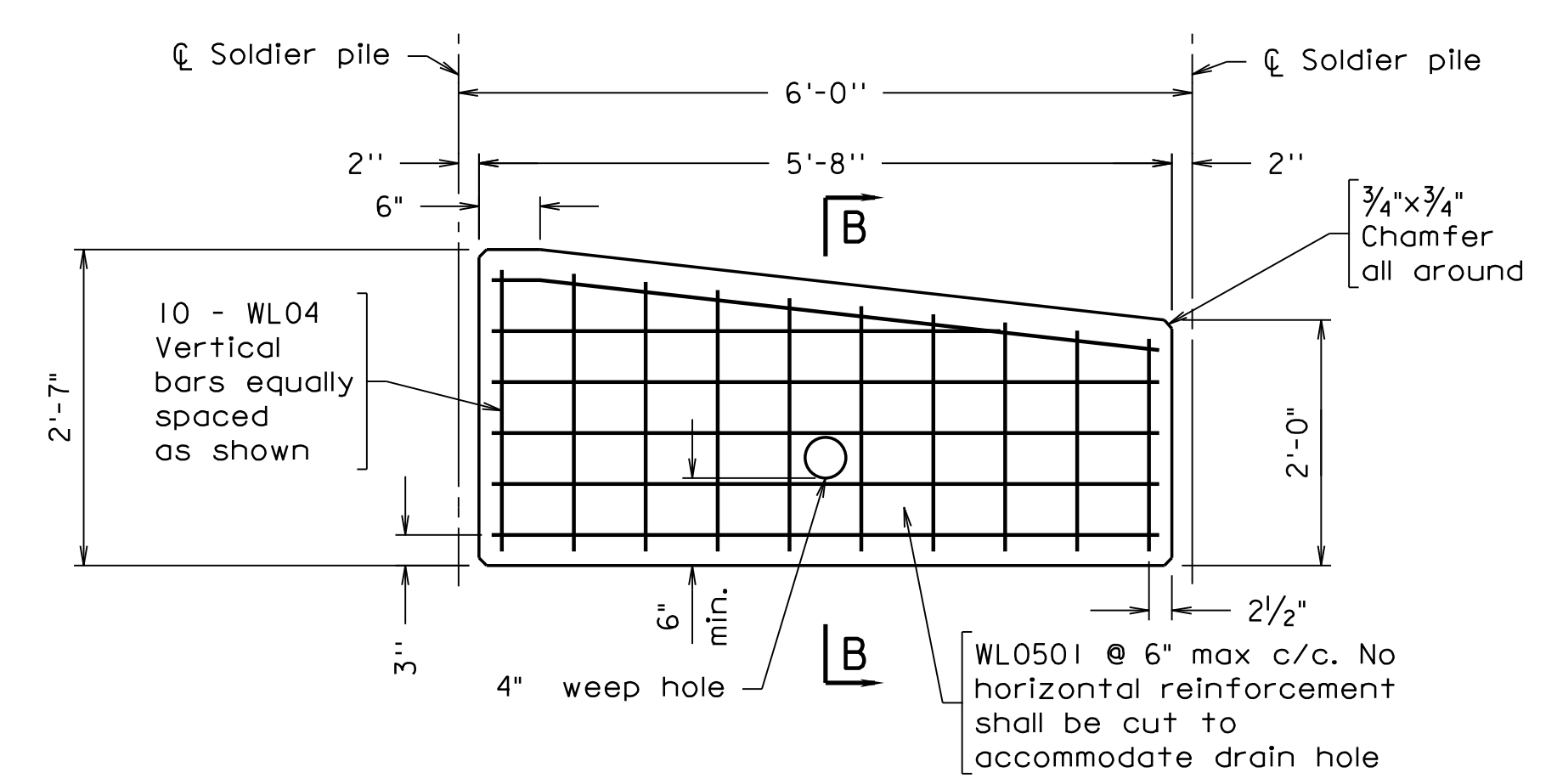
**TYPICAL PRECAST CONCRETE LAGGING PANEL DETAILS**  
 Scale: 3/4" = 1'-0"



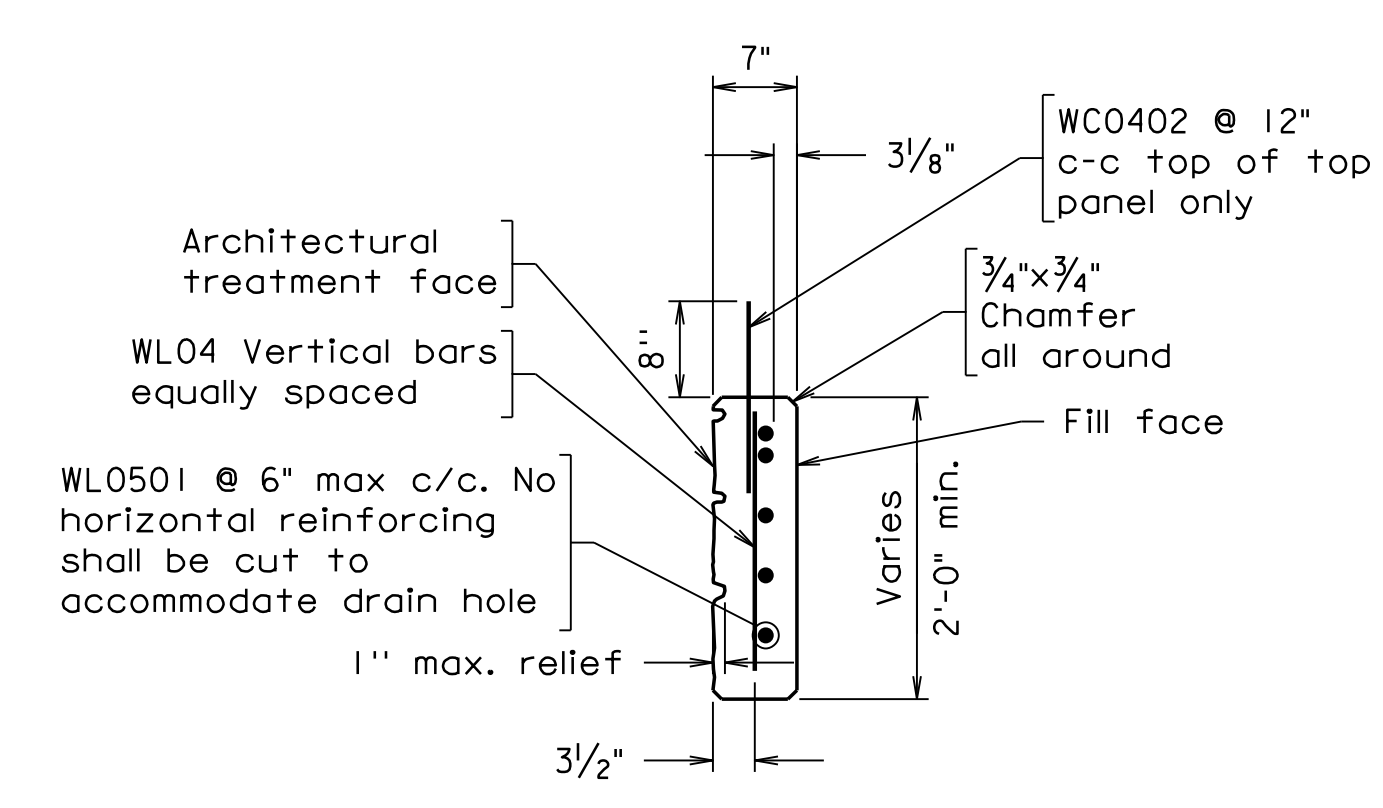
**SECTION A-A**  
 Scale: 3/4" = 1'-0"



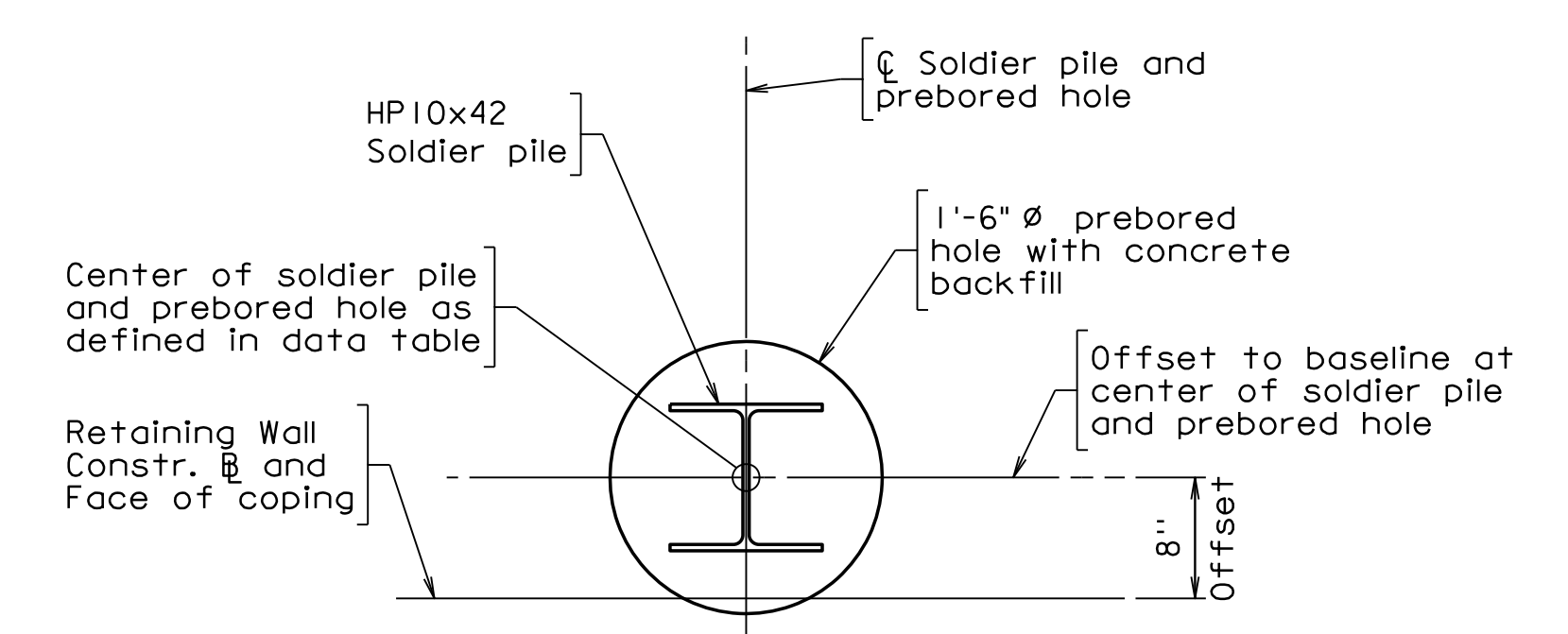
**PILE 3 SECTION**  
 Pile 10 similar, opposite hand  
 Scale: 1 1/2" = 1'-0"



**PRECAST CONCRETE LAGGING TOP PANEL DETAILS**  
 Scale: 3/4" = 1'-0"



**SECTION B-B**  
 Scale: 3/4" = 1'-0"



**SOLDIER PILE SECTION**  
 Scale: 1" = 1'-0"

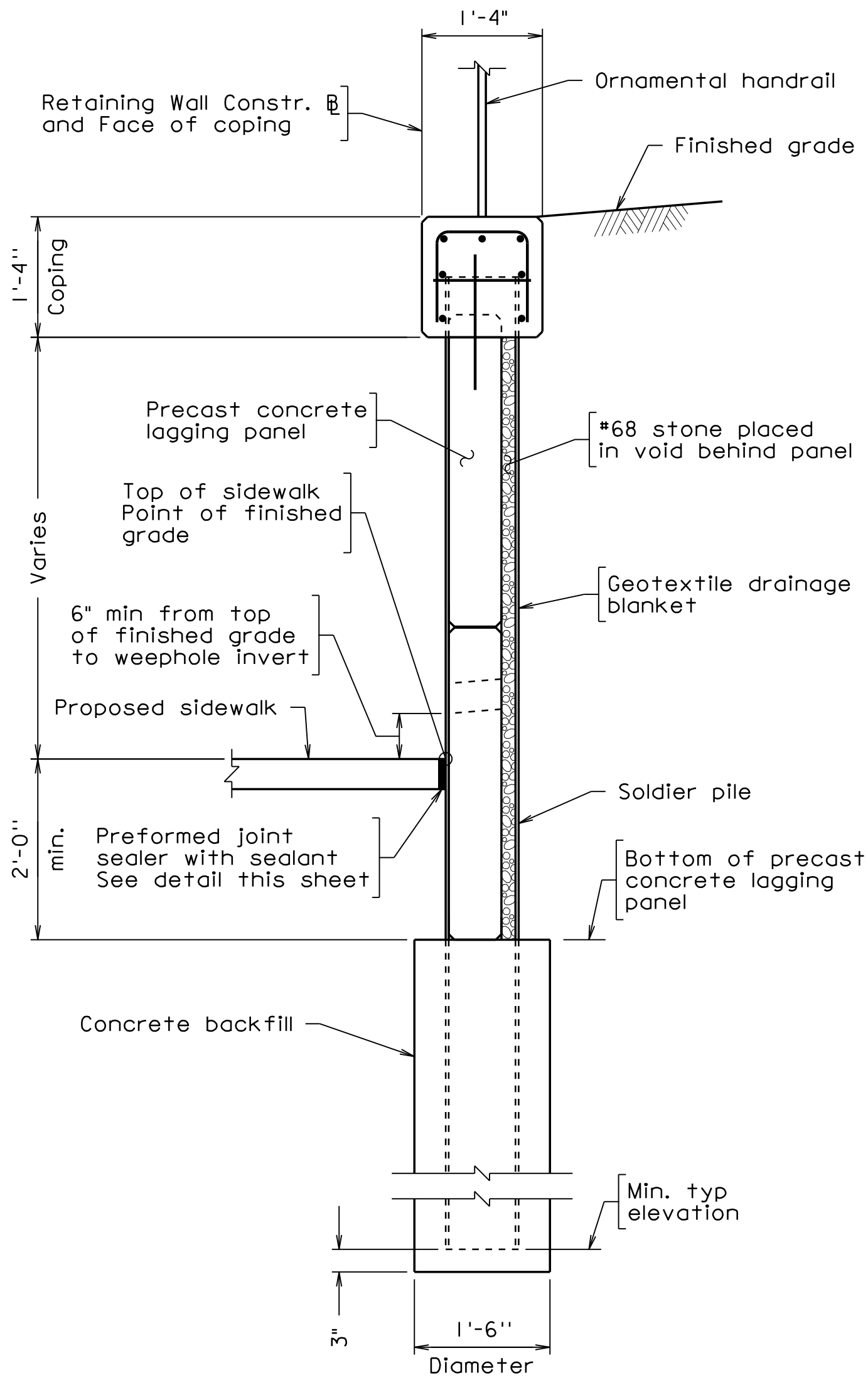


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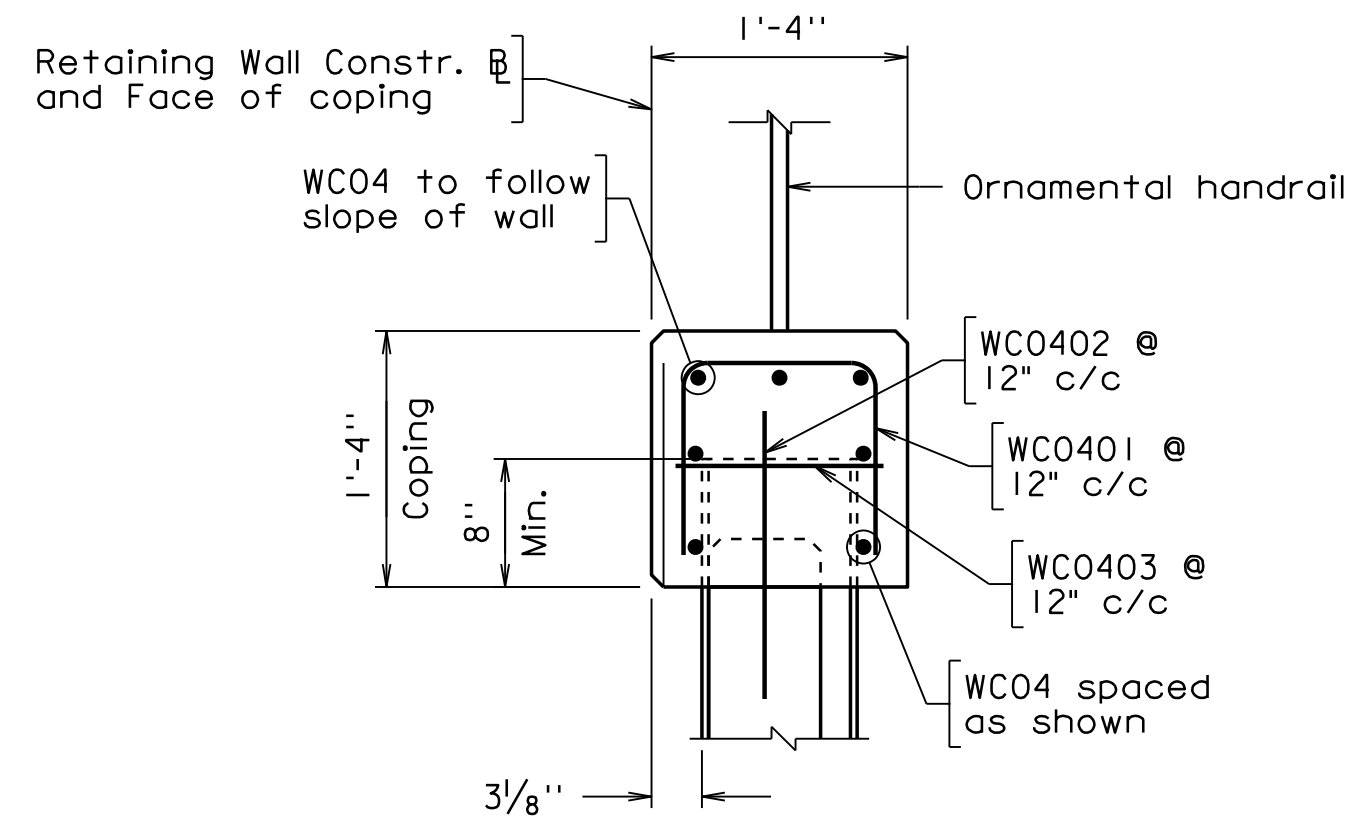
**WALL 3  
 SOLDIER PILE WALL  
 LAGGING DETAILS  
 SHEET 2 OF 2**

|                 |              |            |
|-----------------|--------------|------------|
| SCALE: AS NOTED |              |            |
| DATE: 07/2023   | SHEET: 2C(4) |            |
| DES: BDM        | DRAWN: BDM   | CHECK: TAB |

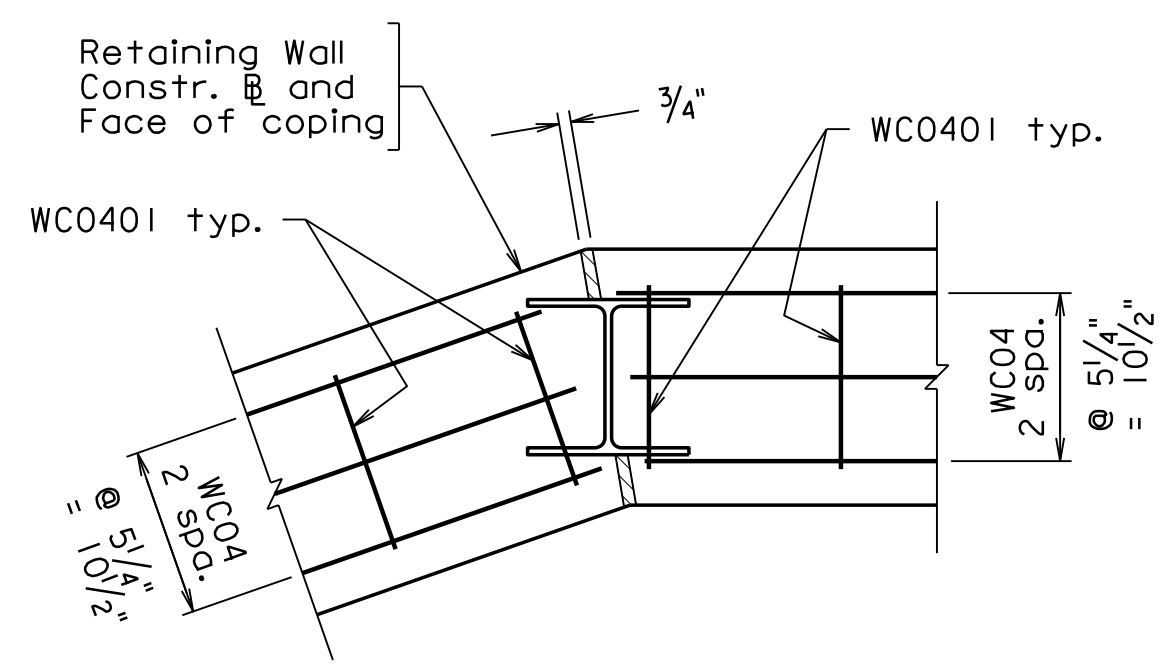




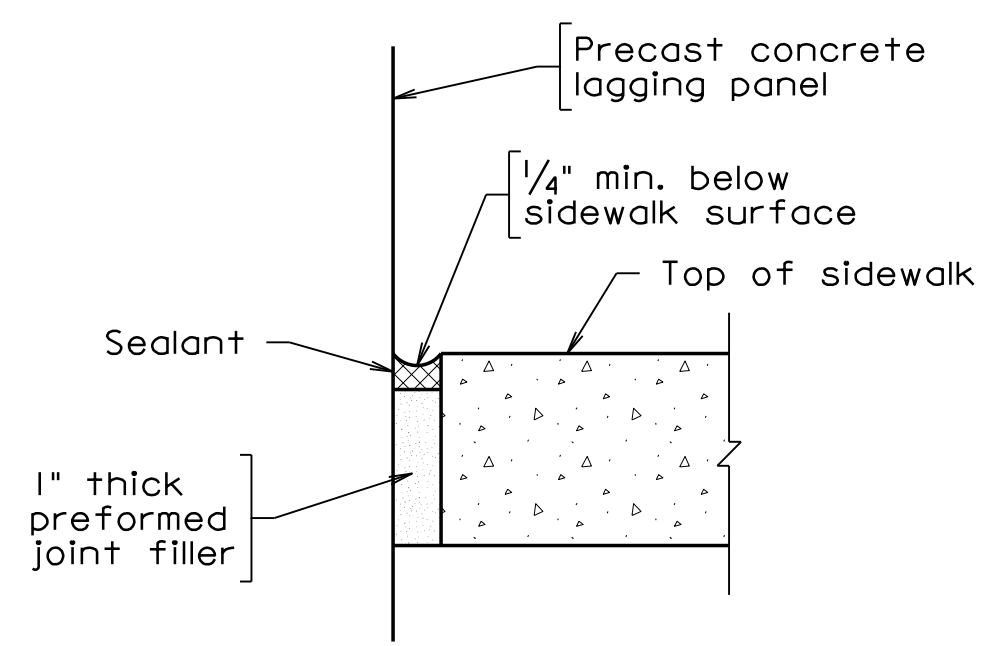
**TYPICAL SECTION**  
Scale: 3/4" = 1'-0"



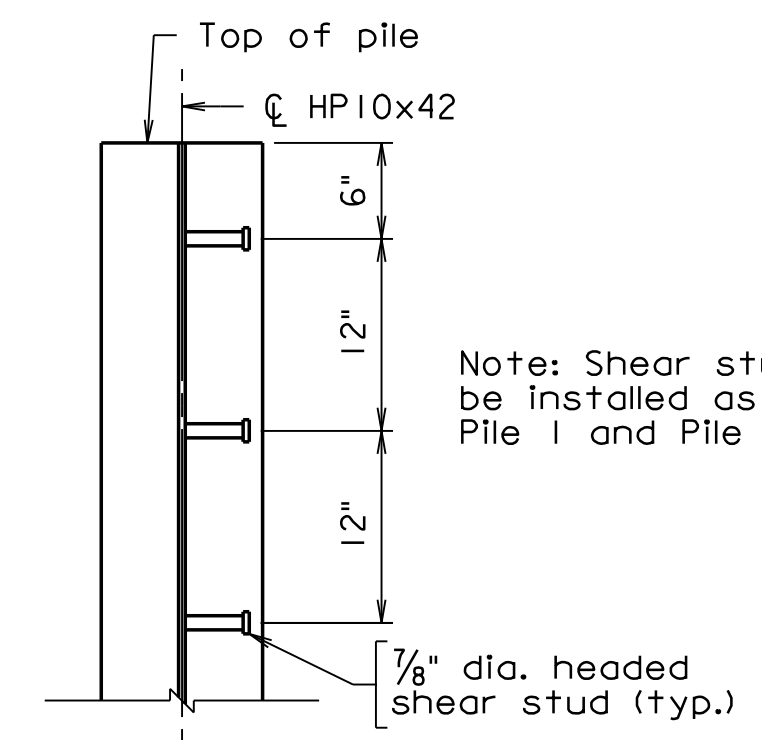
**COPING REINFORCEMENT DETAIL**  
Scale: 1" = 1'-0"



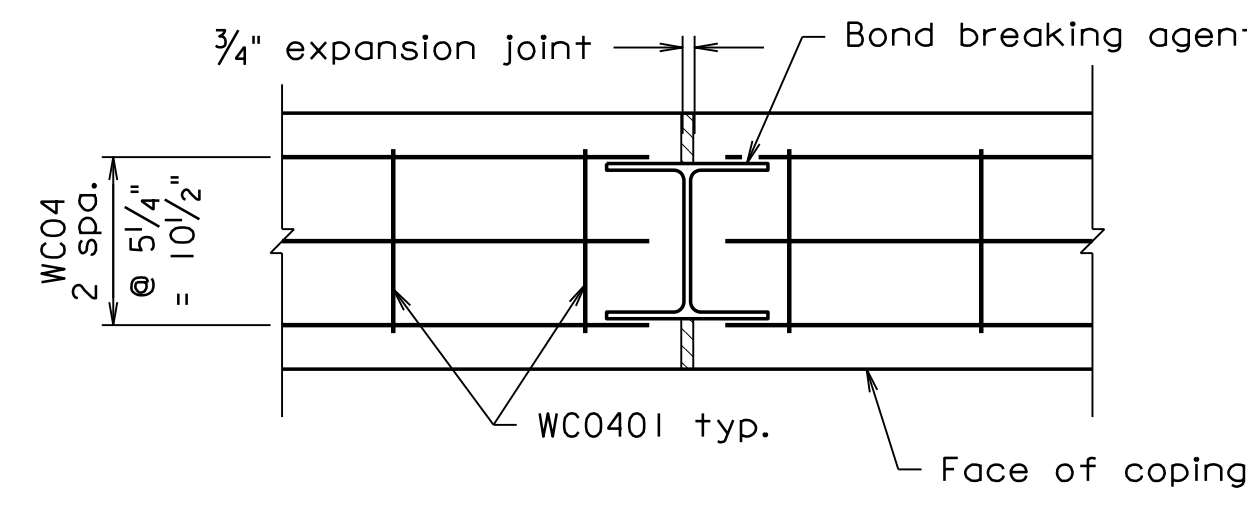
**COPING DETAILS AT PILE 3**  
Pile 10 similar, opposite hand  
Scale: 1" = 1'-0"



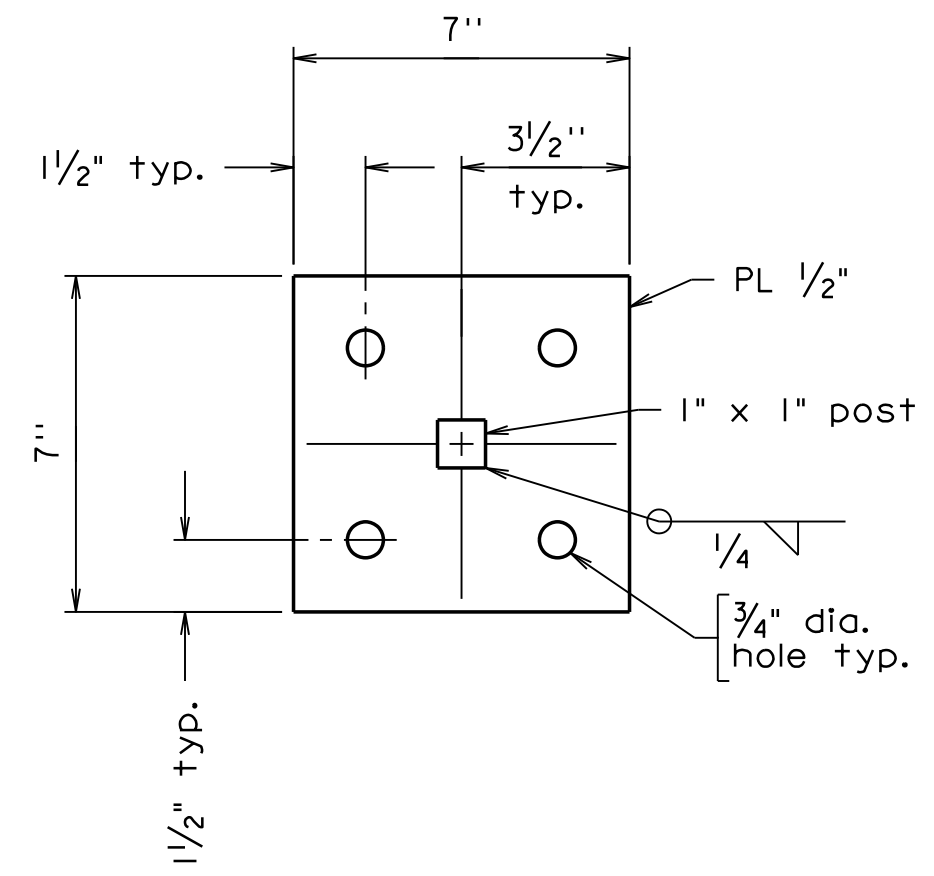
**PREFORMED JOINT DETAIL**  
Scale: 3" = 1'-0"



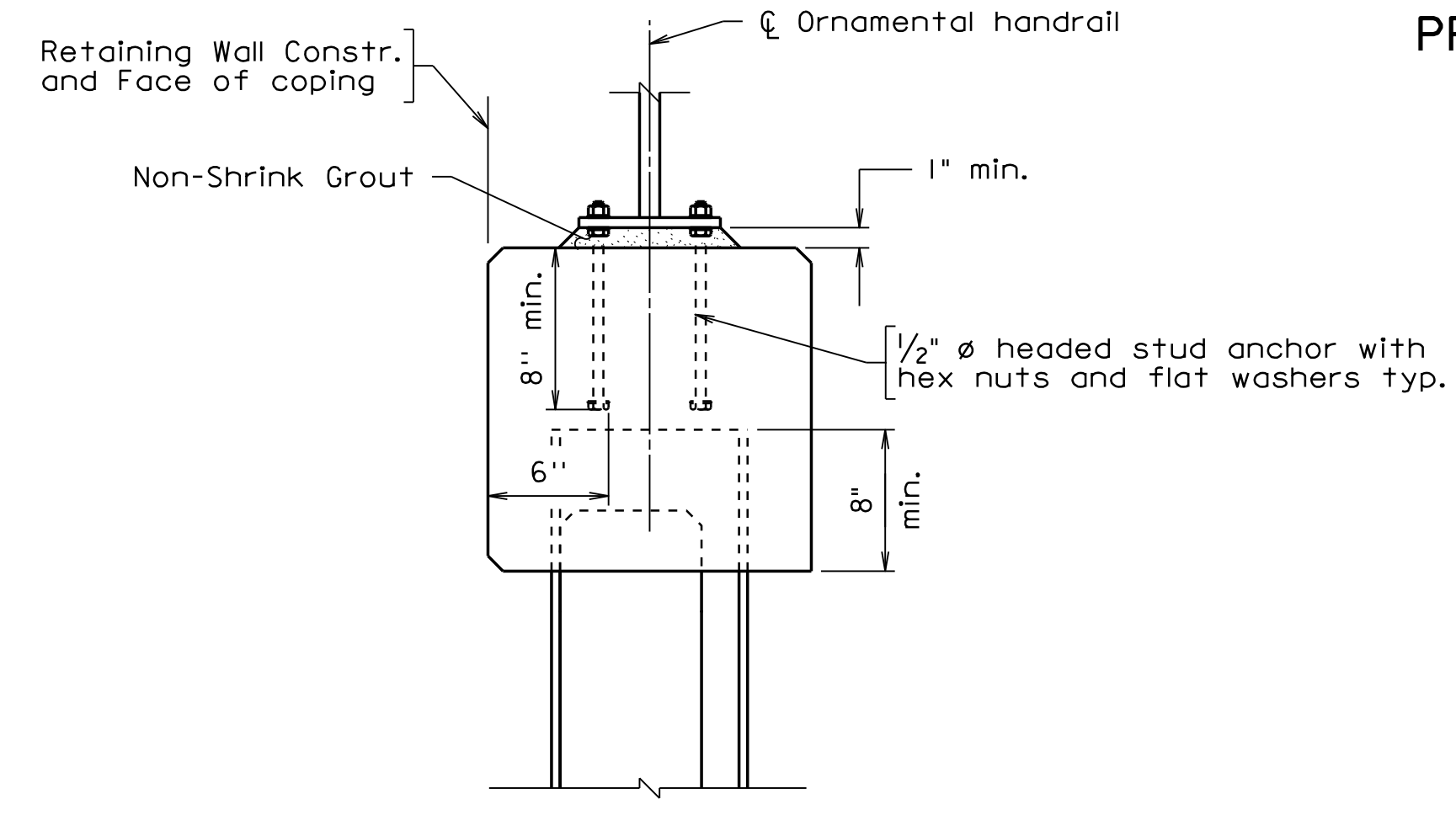
**SHEAR STUD DETAILS**  
Scale: 1" = 1'-0"



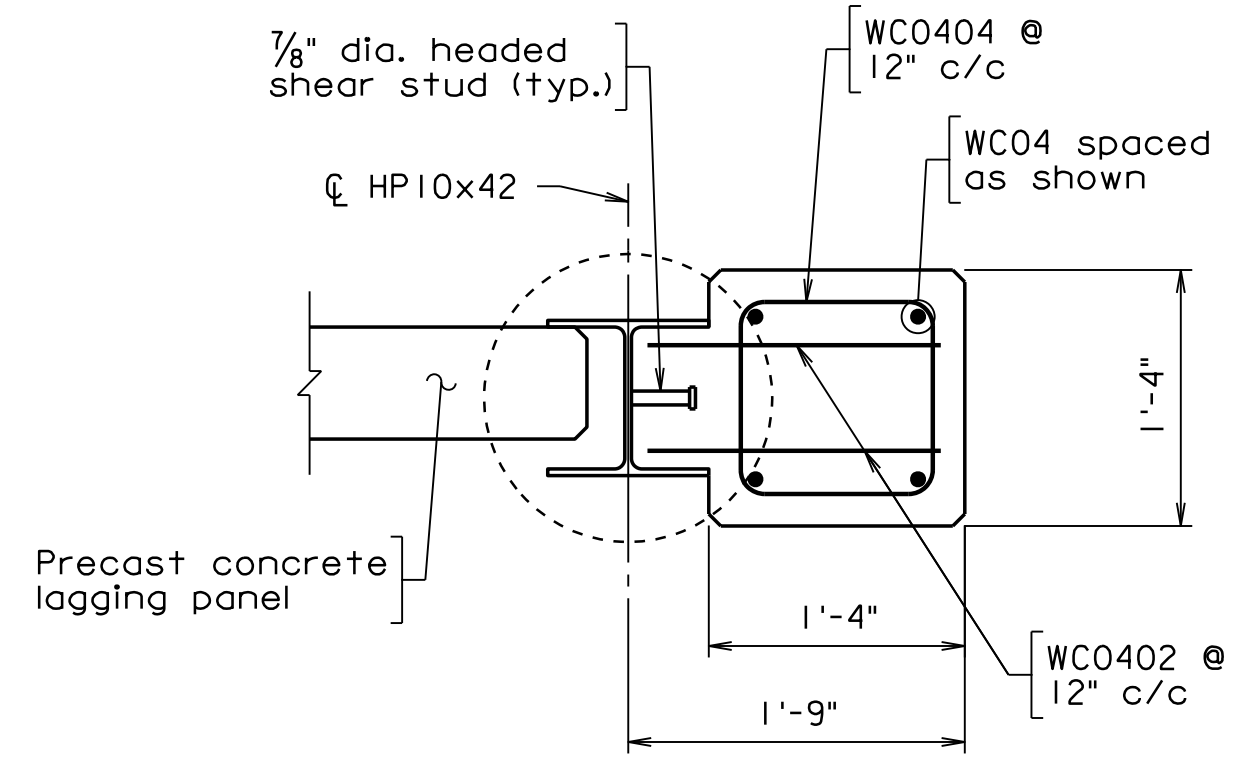
**COPING EXPANSION JOINT DETAIL**  
Scale: 1" = 1'-0"



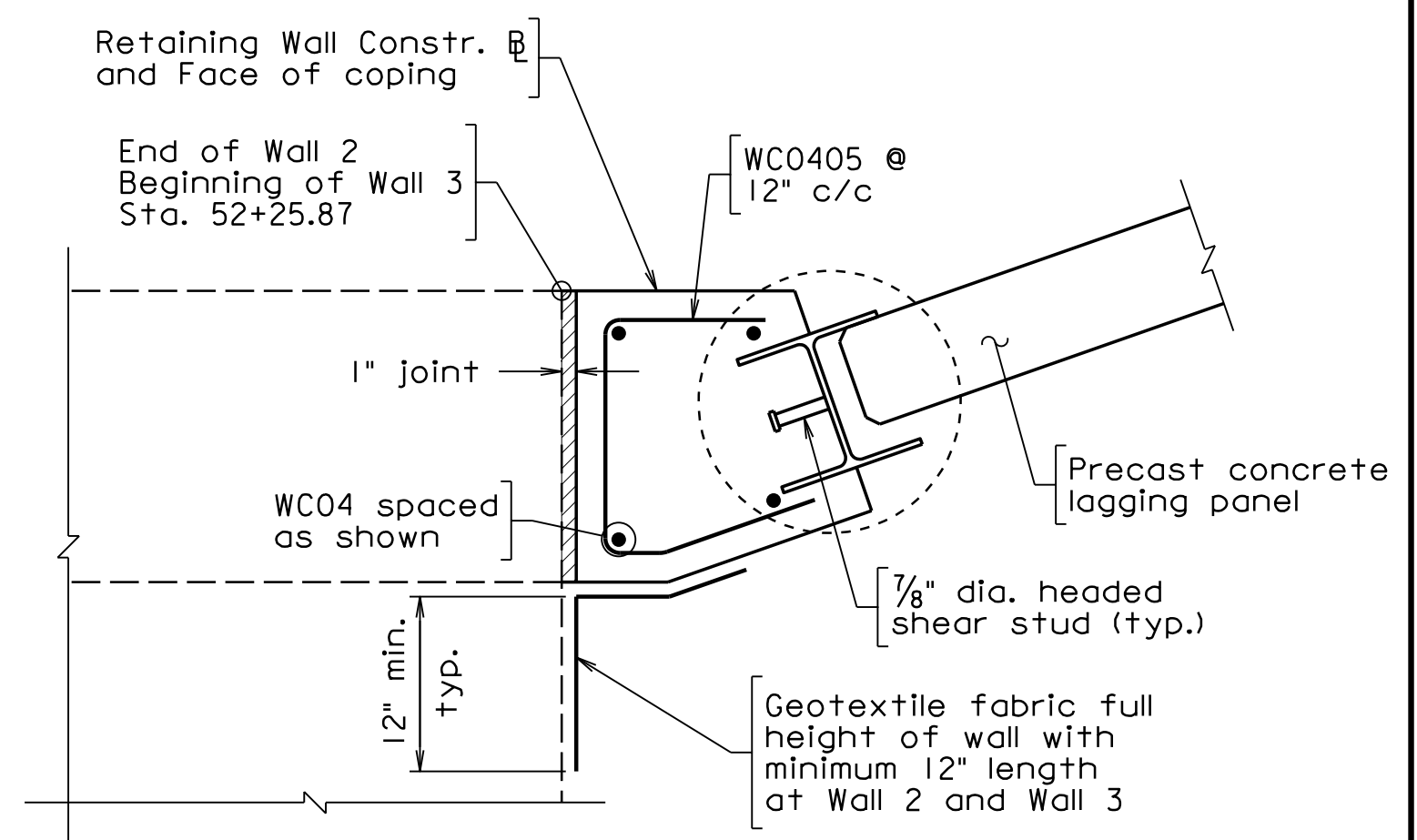
**7" X 7" STEEL BASE PLATE DETAIL**  
Scale: 3" = 1'-0"



**HANDRAIL CONNECTION DETAIL @ SOLDIER PILE WALL**  
Scale: 1/2" = 1'-0"



**PART SECTION END TREATMENT PILE 14**  
Scale: 1" = 1'-0"



**PART SECTION END TREATMENT PILE 1**  
Scale: 1" = 1'-0"

**REINFORCING STEEL SCHEDULE**

| WC0401 |     | WC0404 |            | WC0405     |          |
|--------|-----|--------|------------|------------|----------|
| Mark   | No. | Size   | Pin $\phi$ | Length     | Location |
| WC0401 |     | #4     | 2"         | 2'-9 1/2"  | Coping   |
| WC0402 |     | #4     | ---        | 1'-6"      | Coping   |
| WC0403 |     | #4     | ---        | 12"        | Coping   |
| WC0404 |     | #4     | 2"         | 3'-11 3/4" | Coping   |
| WC0405 |     | #4     | 2"         | 3'-3 3/8"  | Coping   |
| WC04   |     | #4     | ---        | ---        | Coping   |
| WL0501 |     | #5     | ---        | 5'-4"      | Lagging  |
| WL04   |     | #4     | ---        | ---        | Lagging  |

Dimensions in bending diagram are out-to-out of bars.  
The Contractor shall determine all dimensions and details for installation.  
Note: Provide 3/4" chamfer on all exposed corners of concrete coping. No chamfer required on corners completely buried as shown on details here-in.  
Bars WC0402, WC0403, WC04, WL0501, and WL04 are straight bars or field bent as noted.  
Handrail Connection Notes:  
See Arlington Virginia Ornamental Handrail Standard Drawing No. R-3.2 for all structural steel properties and handrail details.  
Details shown are designed for the use of cast-in anchors. The use of alternate products may be allowed provided they conform to VDOT approved materials list and are approved by the engineer.  
Contractor to size length of anchor rods to ensure minimum stick-through for nut installation, and adjustments for grade.  
Contractor may propose alternate attachment methods for the handrail posts for review. Alternates shall be designed for appropriate loads and bear the seal of a professional engineer licensed in the Commonwealth of Virginia.  
Base plate shall be ASTM A572 Grade 50 and shall be galvanized.  
Grounding will be required for the handrail. See VDOT Standard FE-6 for details.

REVISIONS

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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
127 CENTER STREET SOUTH  
VIENNA, VA, 22180



TOWN OF  
**VIENNA**  
since 1890

**BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS**



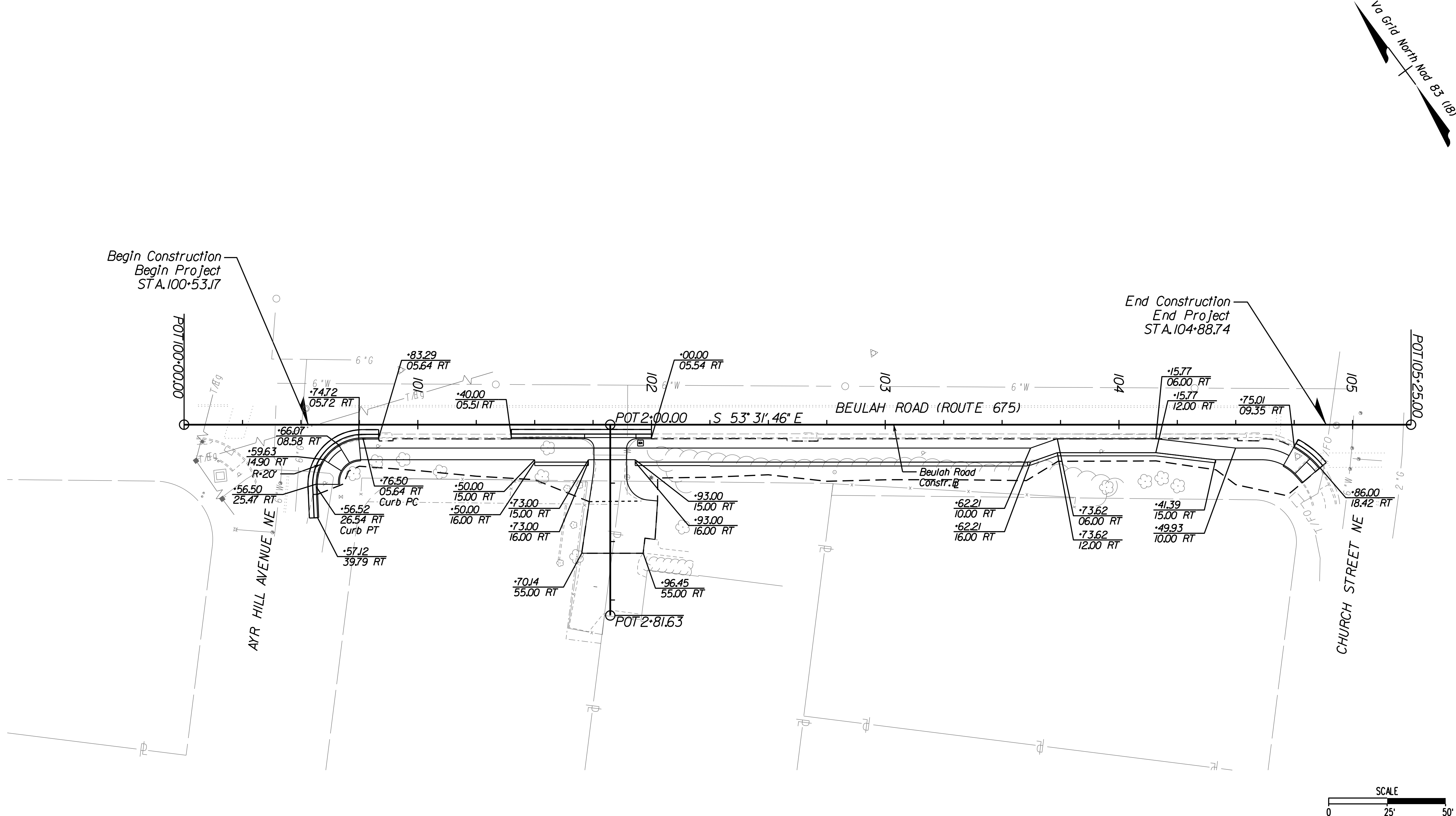
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12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**WALL 3  
SOLDIER PILE WALL  
TYPICAL SECTION  
AND COPING DETAILS**

SCALE: AS NOTED  
DATE: 07/2023 SHEET: 2C(5)  
DES: BDM DRAWN: BDM CHECK: TAB



# GEOMETRIC LAYOUT



| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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 VIENNA, VA, 22180



**TOWN OF VIENNA**  
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 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

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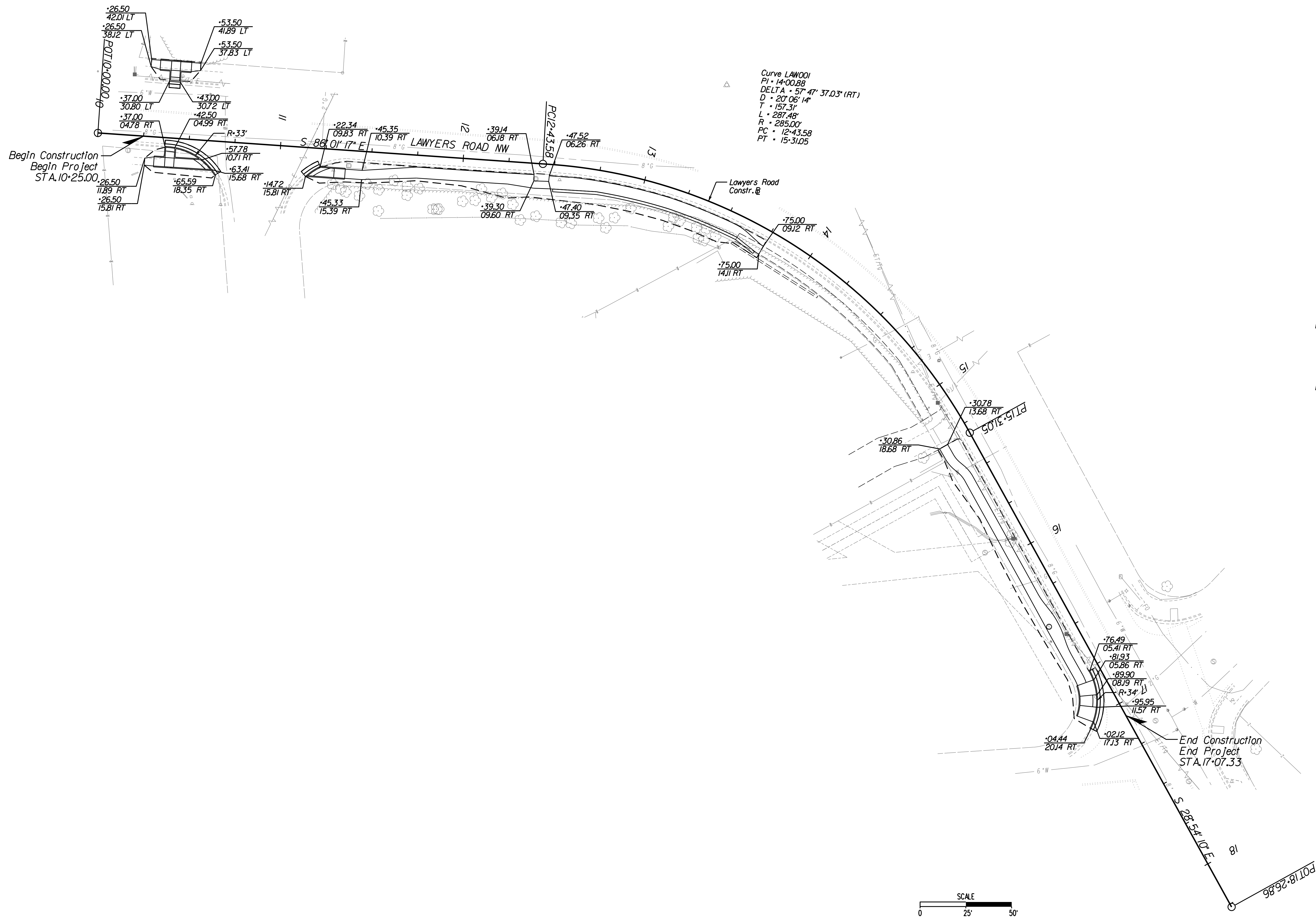
**Whitman, Requardt & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**BEULAH ROAD  
 GEOMETRIC LAYOUT**

|               |              |           |
|---------------|--------------|-----------|
| SCALE: 1"=25' |              |           |
| DATE: 07/2023 | SHEET: 2D(1) |           |
| DES: PS       | DRAWN: JZ    | CHECK: TL |



# GEOMETRIC LAYOUT



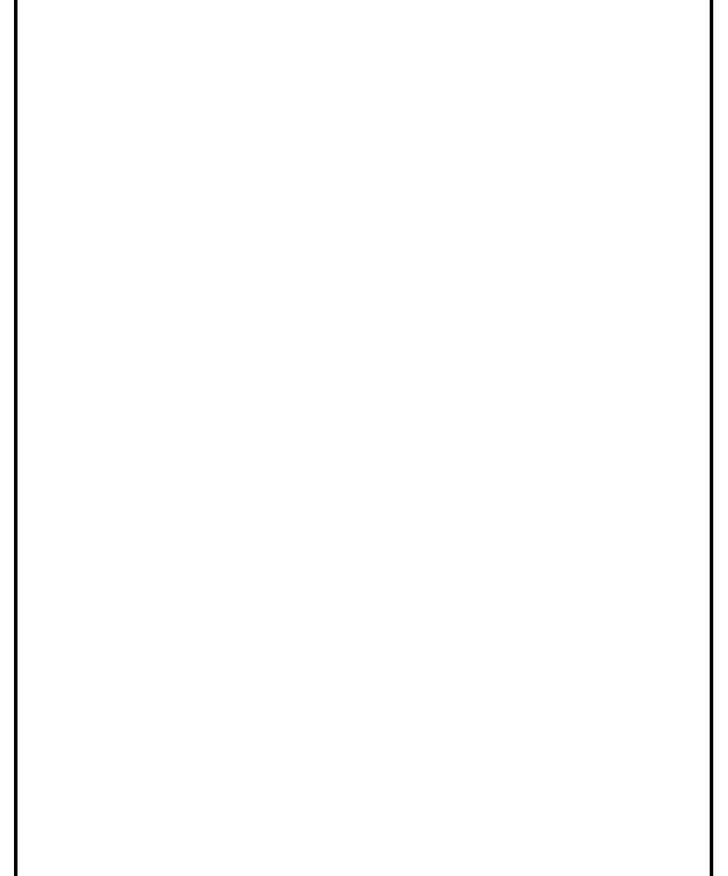
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CLIENT INFORMATION  
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 VIENNA, VA, 22180



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 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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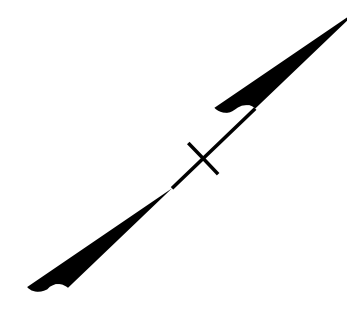


**LAWYERS ROAD NW  
 SIDEWALK  
 GEOMETRIC LAYOUT**

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 2D(2)  
 DES: PS DRAWN: JZ CHECK: TL



# GEOMETRIC LAYOUT



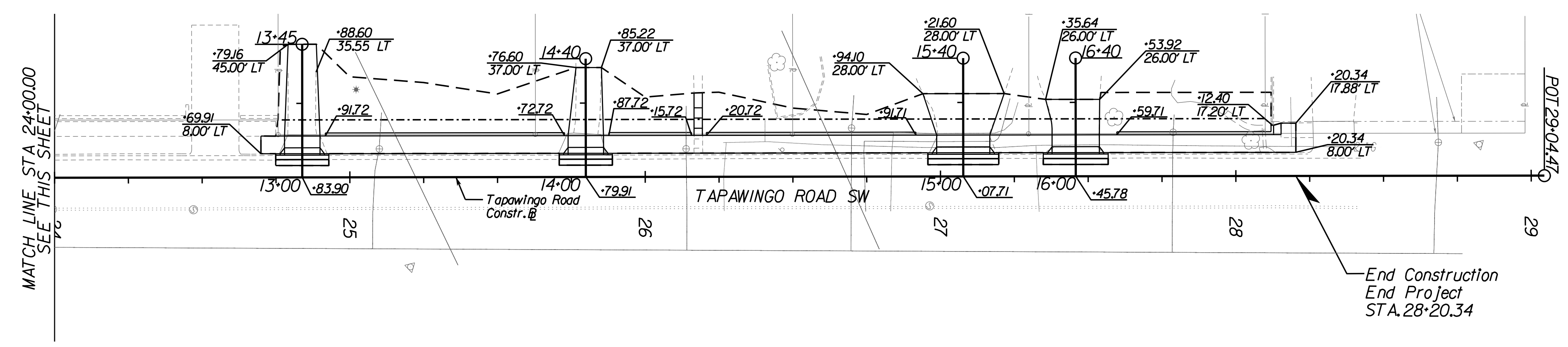
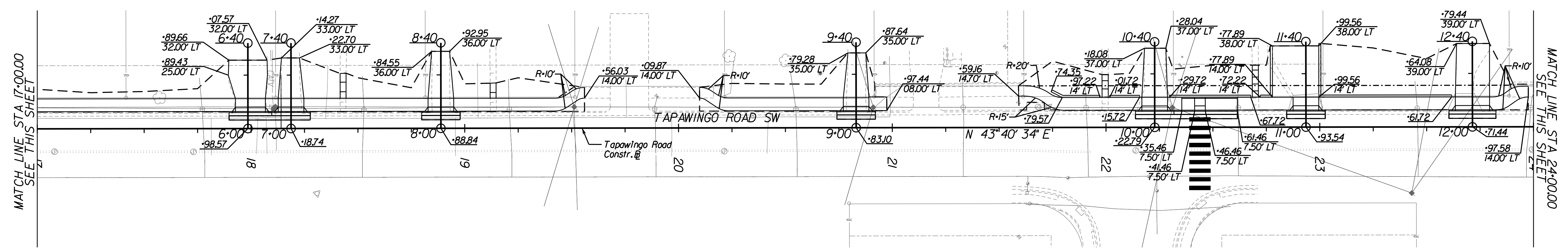
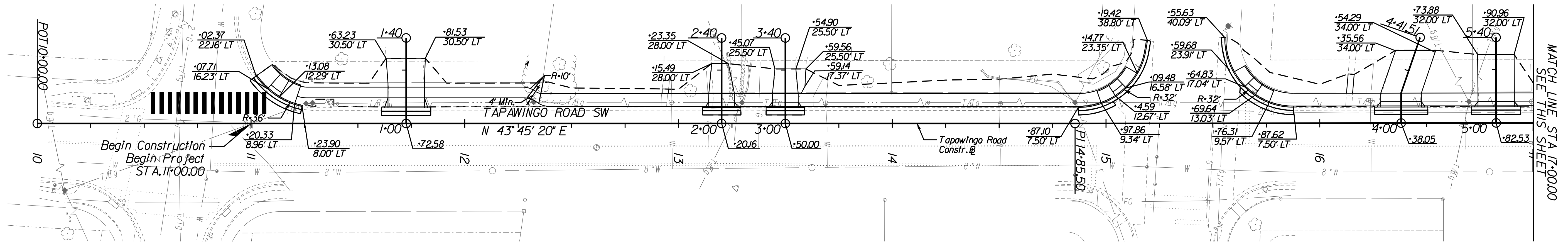
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**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

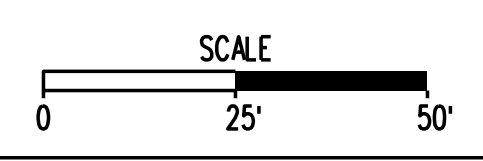


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**TAPAWINGO ROAD SW  
 SIDEWALK  
 GEOMETRIC LAYOUT**



SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 20(3)  
 DES: JZ DRAWN: JZ CHECK: TL



# CURB RAMP STAKING DETAILS

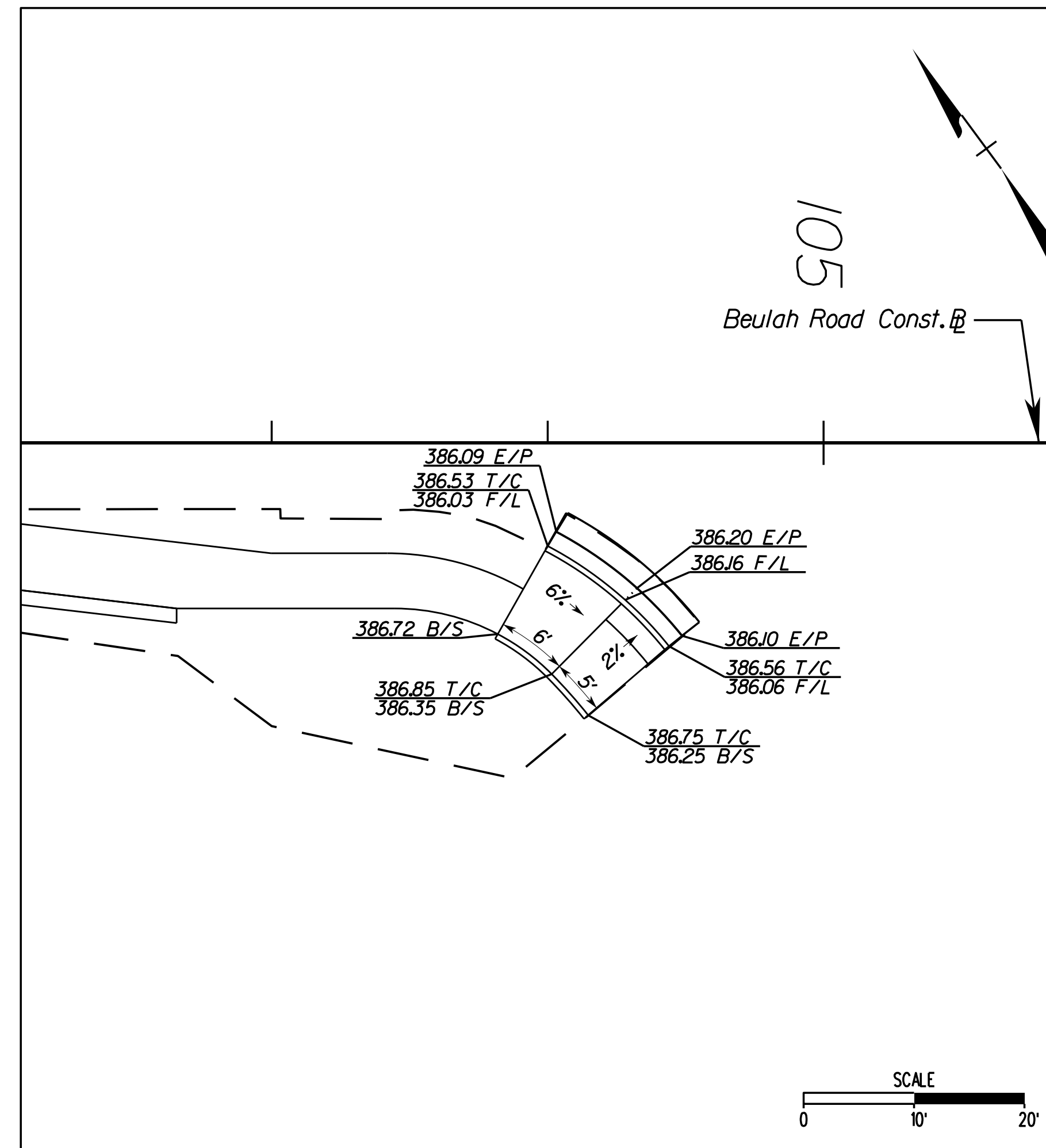
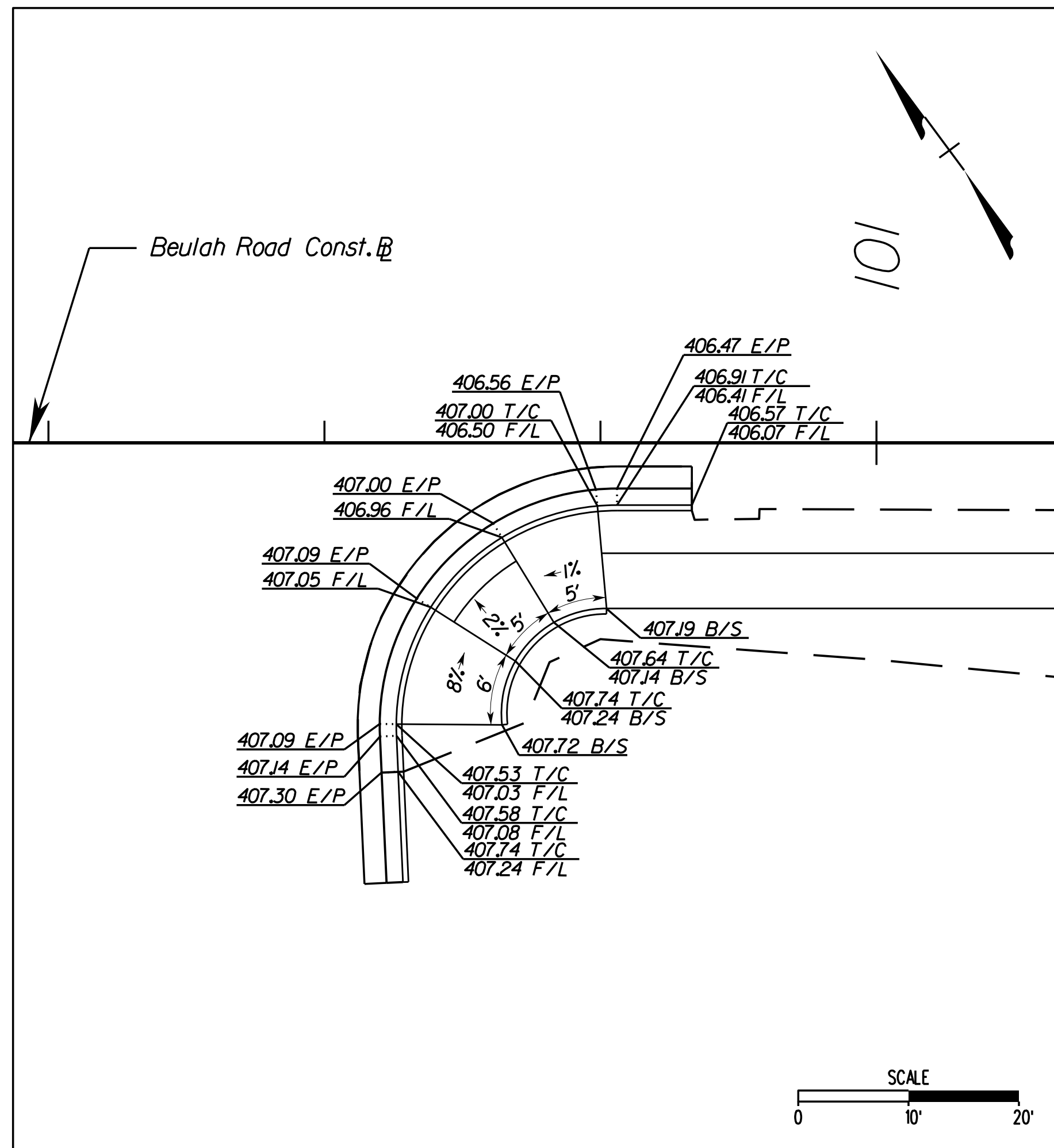
| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



Legend:  
 T/C Top of Curb  
 F/L Flowline  
 E/P Edge of Pavement  
 B/S Back of Sidewalk

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 Fairfax, Virginia  
 ROADWAY ENGINEER



**Whitman, Requardt & Associates, LLP**  
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**BEULAH ROAD  
 CURB RAMP  
 STAKING DETAILS**

|               |              |           |
|---------------|--------------|-----------|
| SCALE: 1"=10' |              |           |
| DATE: 07/2023 | SHEET: 2E(1) |           |
| DES: PS       | DRAWN: JZ    | CHECK: TL |



# CURB RAMP STAKING DETAILS

| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



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 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

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 Fairfax, Virginia  
 ROADWAY ENGINEER

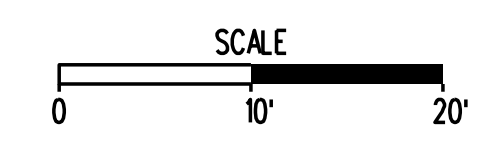
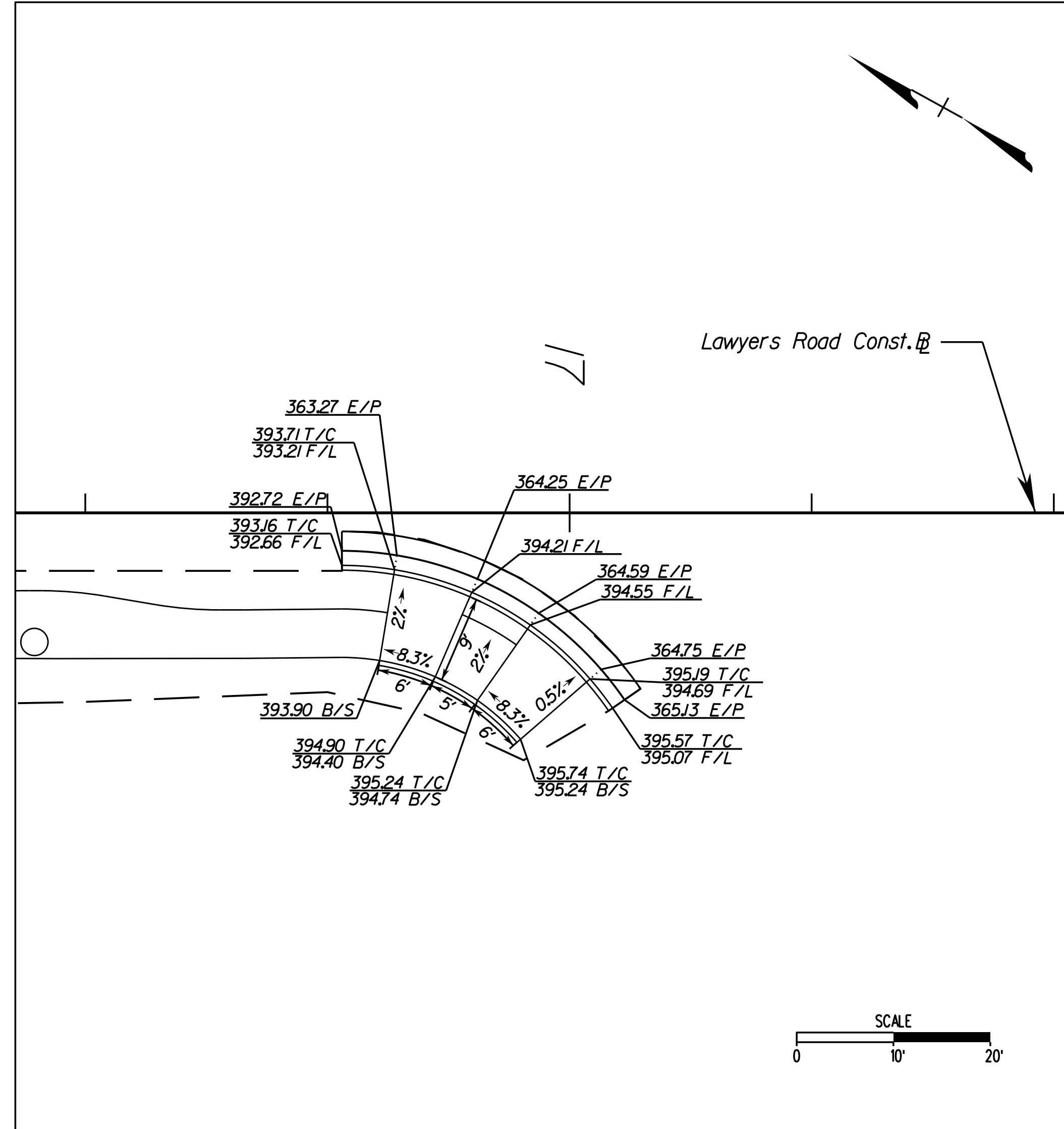
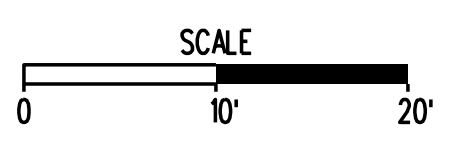
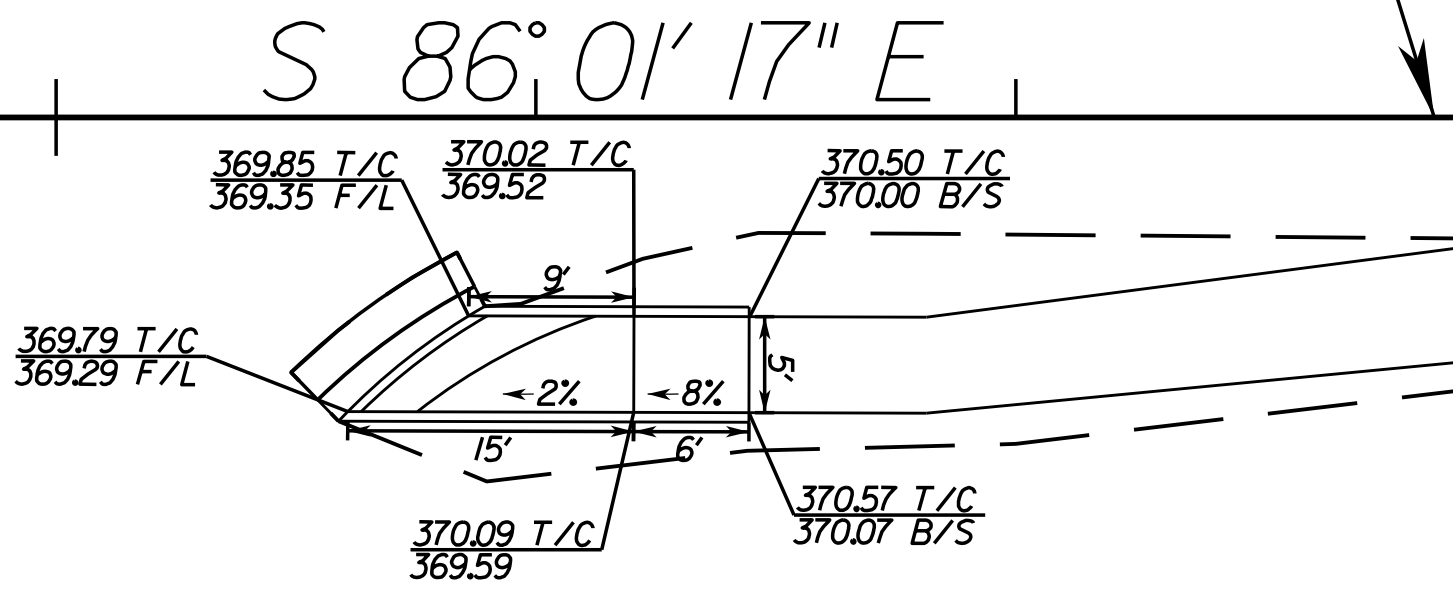
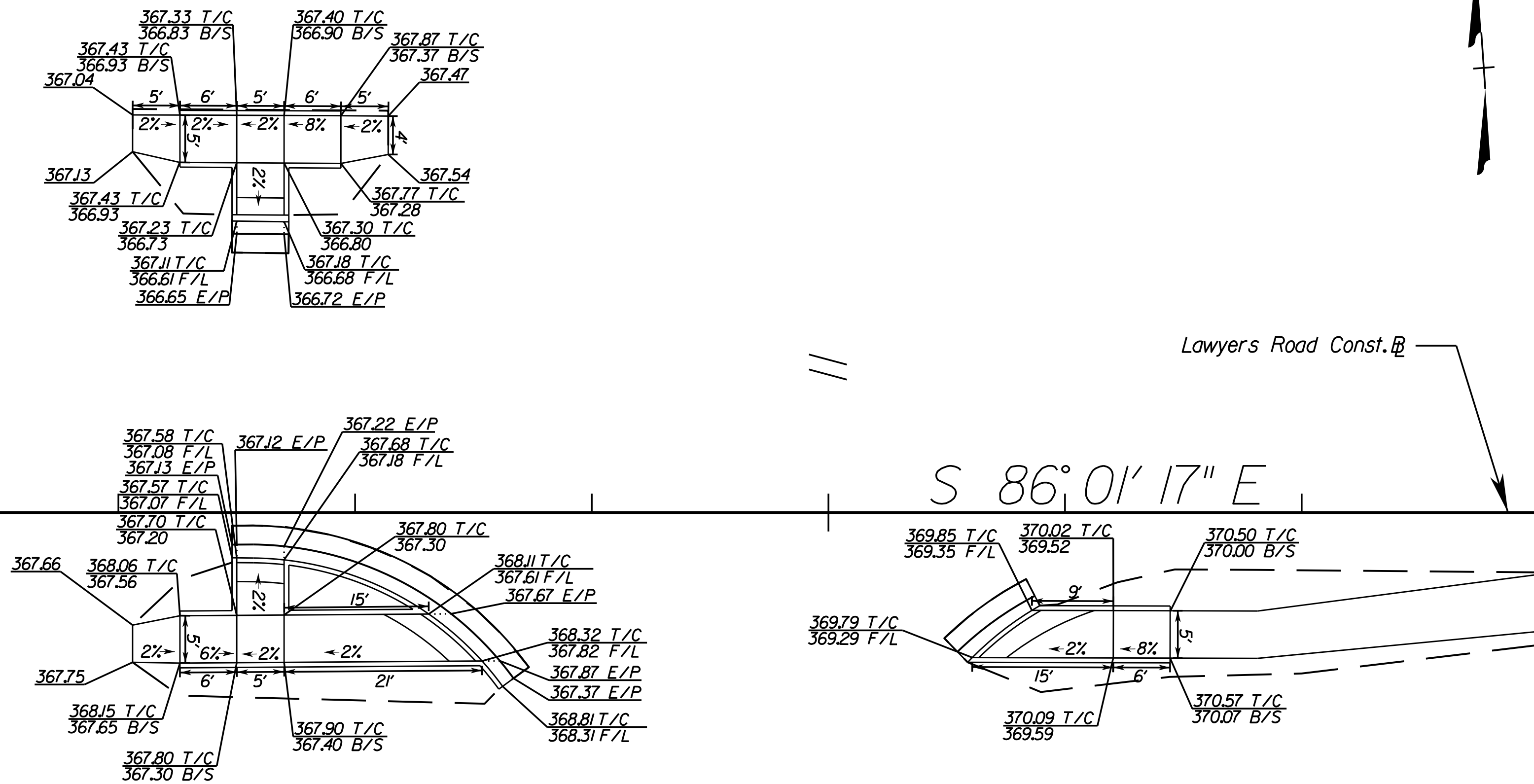


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**LAWYERS ROAD  
 CURB RAMP  
 STAKING DETAILS**

|               |              |
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| SCALE: 1"=10' |              |
| DATE: 07/2023 | SHEET: 2E(2) |
| DES: PS       | DRAWN: JZ    |
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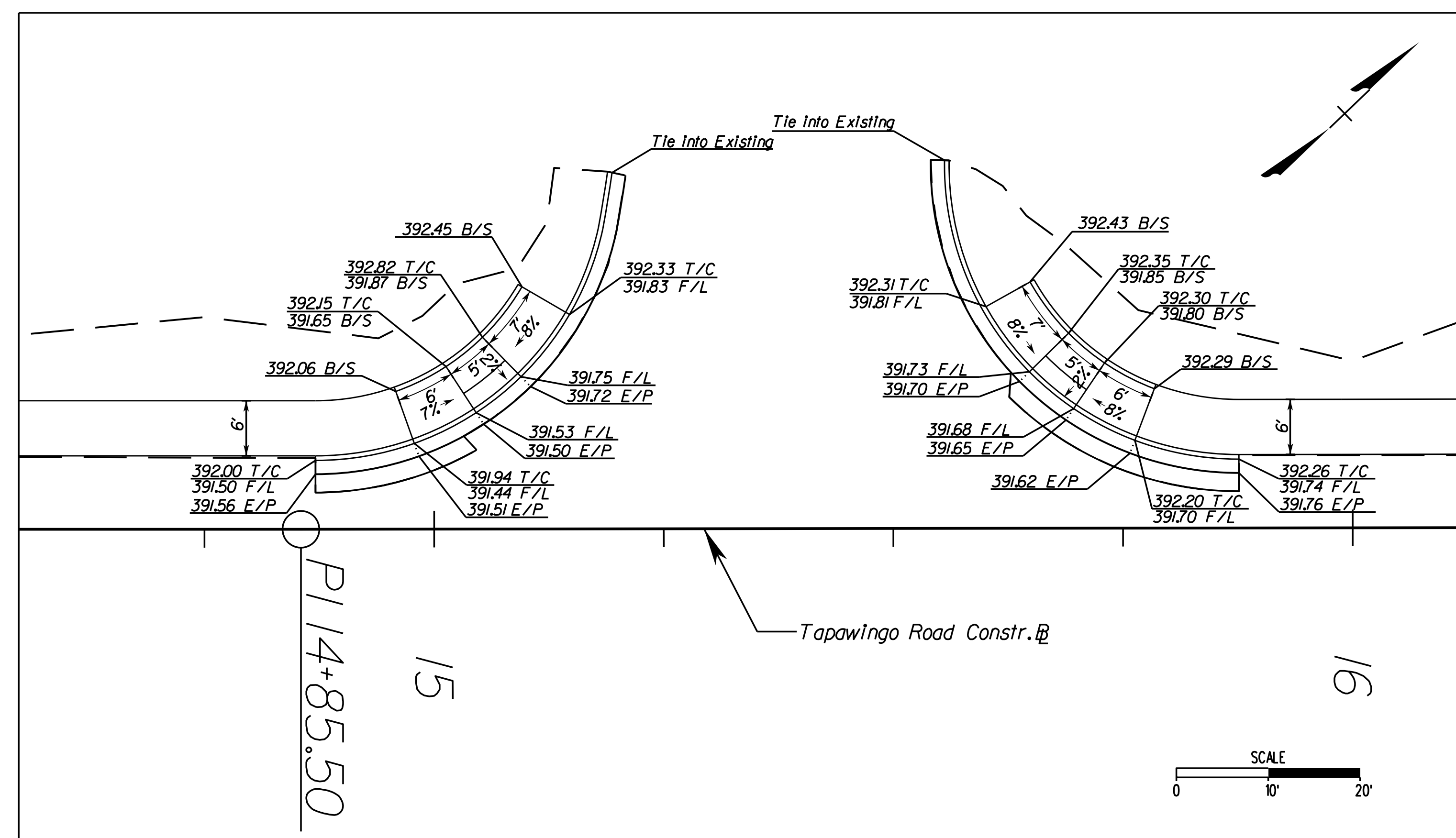
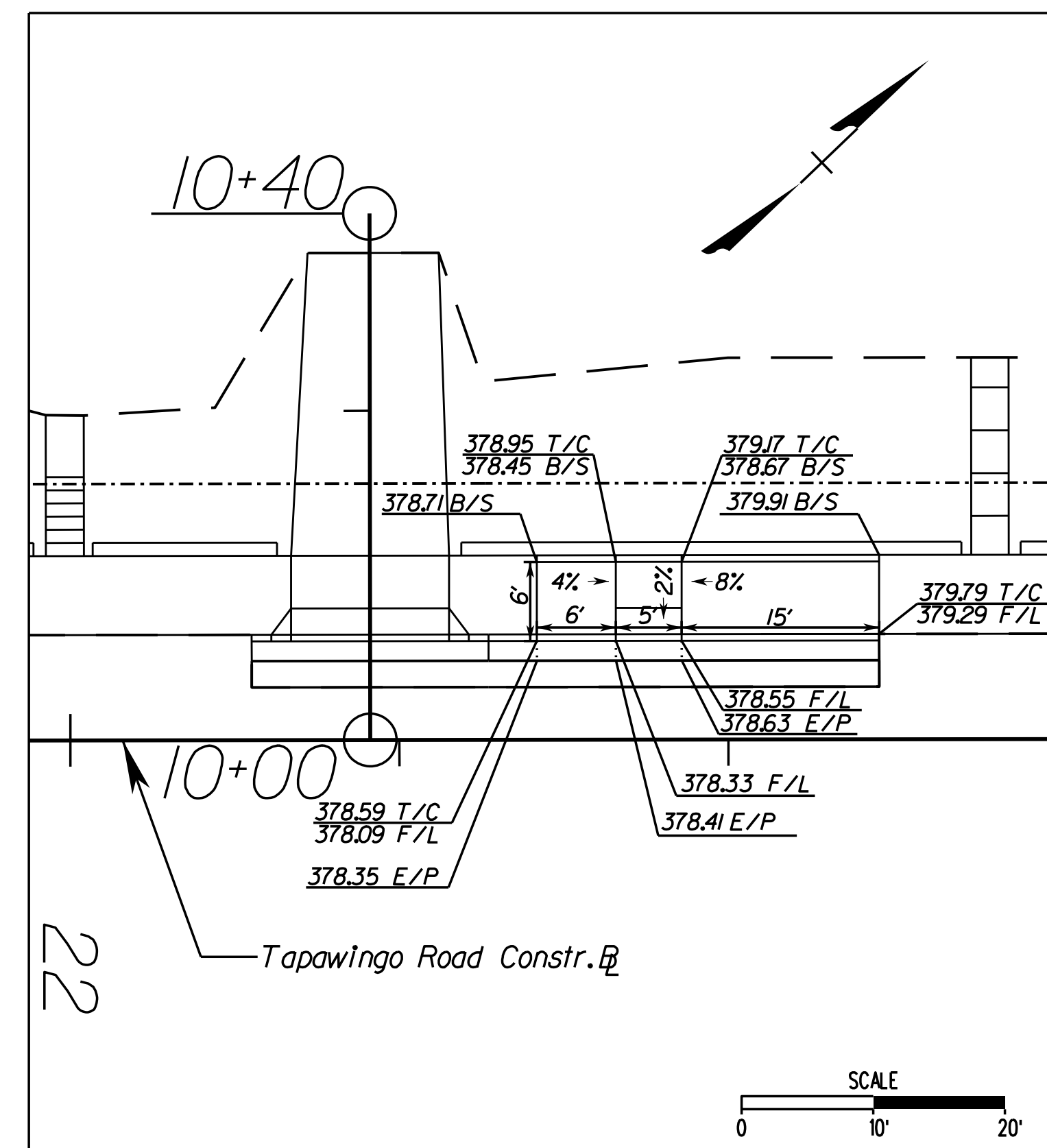
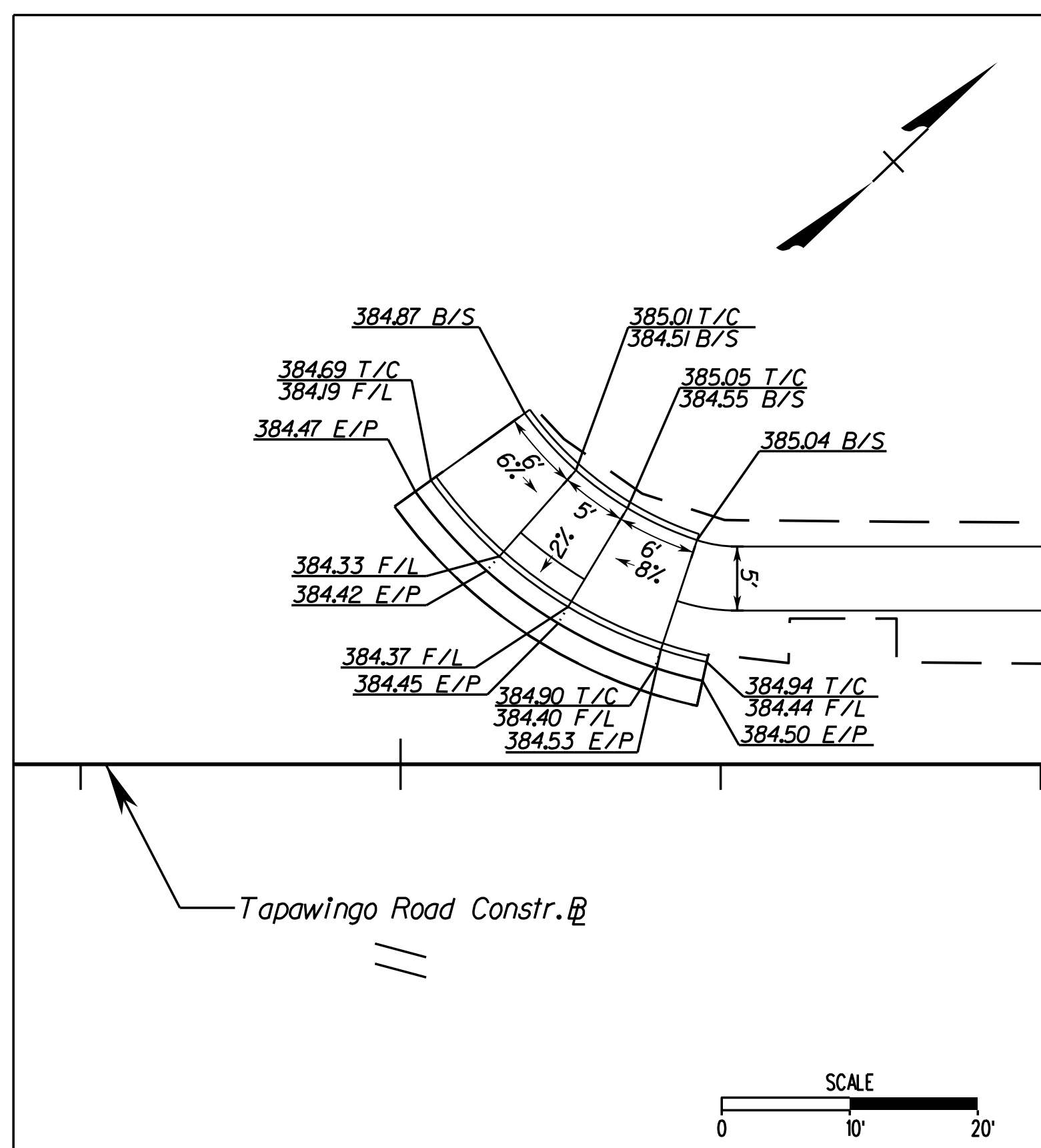
POT10+00.00,0



Legend:  
 T/C Top of Curb  
 F/L Flowline  
 E/P Edge of Pavement  
 B/S Back of Sidewalk



# CURB RAMP STAKING DETAILS



Legend:  
 T/C Top of Curb  
 F/L Flowline  
 E/P Edge of Pavement  
 B/S Back of Sidewalk

| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
 CURB RAMP  
 STAKING DETAILS**

SCALE: 1"=10'

DATE: 07/2023

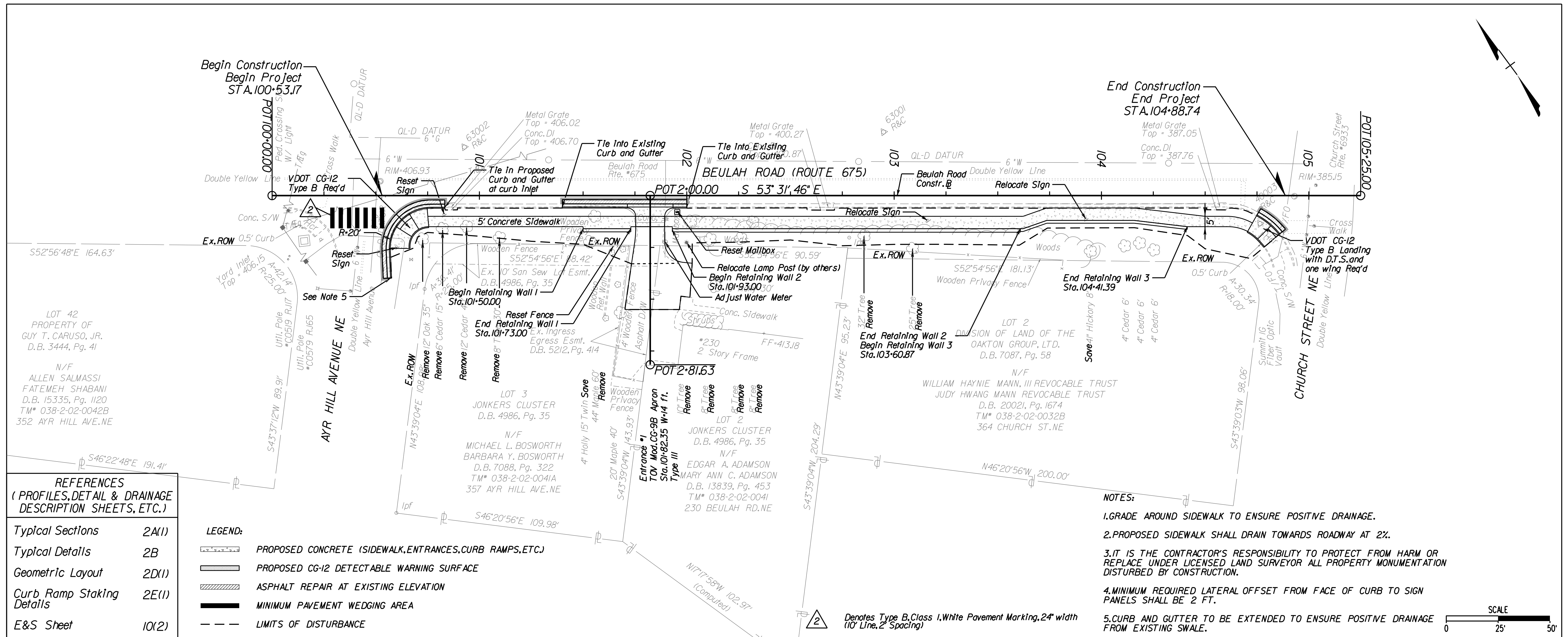
SHEET: 2E(3)

DES: JZ

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CHECK: TL





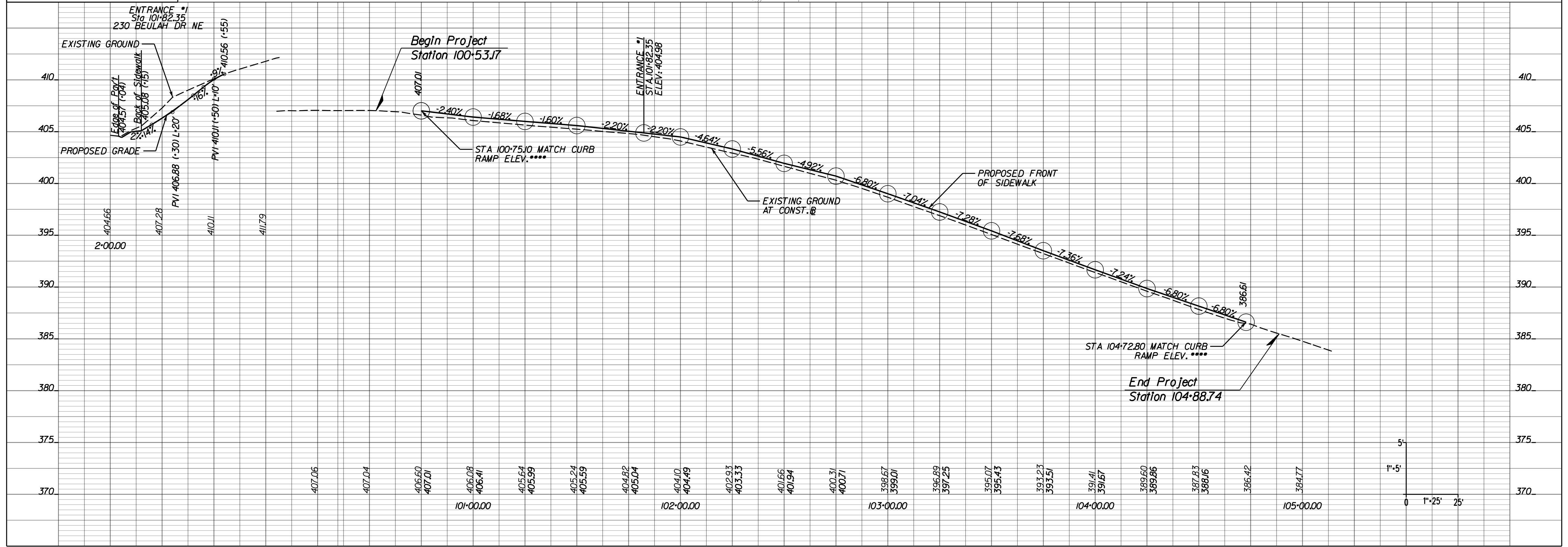
**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

|                   |       |
|-------------------|-------|
| Typical Sections  | 2A(1) |
| Typical Details   | 2B    |
| Geometric Layout  | 2D(1) |
| Curb Ramp Staking | 2E(1) |
| E&S Sheet         | 10(2) |

**LEGEND:**

|  |   |
|--|---|
|  | PROPOSED CONCRETE (SIDEWALK, ENTRANCES, CURB RAMPS, ETC.) |
|  | PROPOSED CG-12 DETECTABLE WARNING SURFACE                 |
|  | ASPHALT REPAIR AT EXISTING ELEVATION                      |
|  | MINIMUM PAVEMENT WEDGING AREA                             |
|  | LIMITS OF DISTURBANCE                                     |

- NOTES:**
- GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE.
  - PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
  - MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.
  - CURB AND GUTTER TO BE EXTENDED TO ENSURE POSITIVE DRAINAGE FROM EXISTING SWALE.



**REVISIONS**

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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
127 CENTER STREET SOUTH  
VIENNA, VA, 22180

**TOWN OF VIENNA**  
since 1890

**BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS**

Whitman Requardt & Associates  
Fairfax, Virginia  
ROADWAY ENGINEER

**Whitman, Requardt & Associates, LLP**  
12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**BEULAH ROAD  
SIDEWALK  
PLAN AND PROFILE**

SCALE: 1"=25'H 1"=5'V  
DATE: 07/2023 SHEET: 3  
DES: PS DRAWN: JZ CHECK: TL



| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

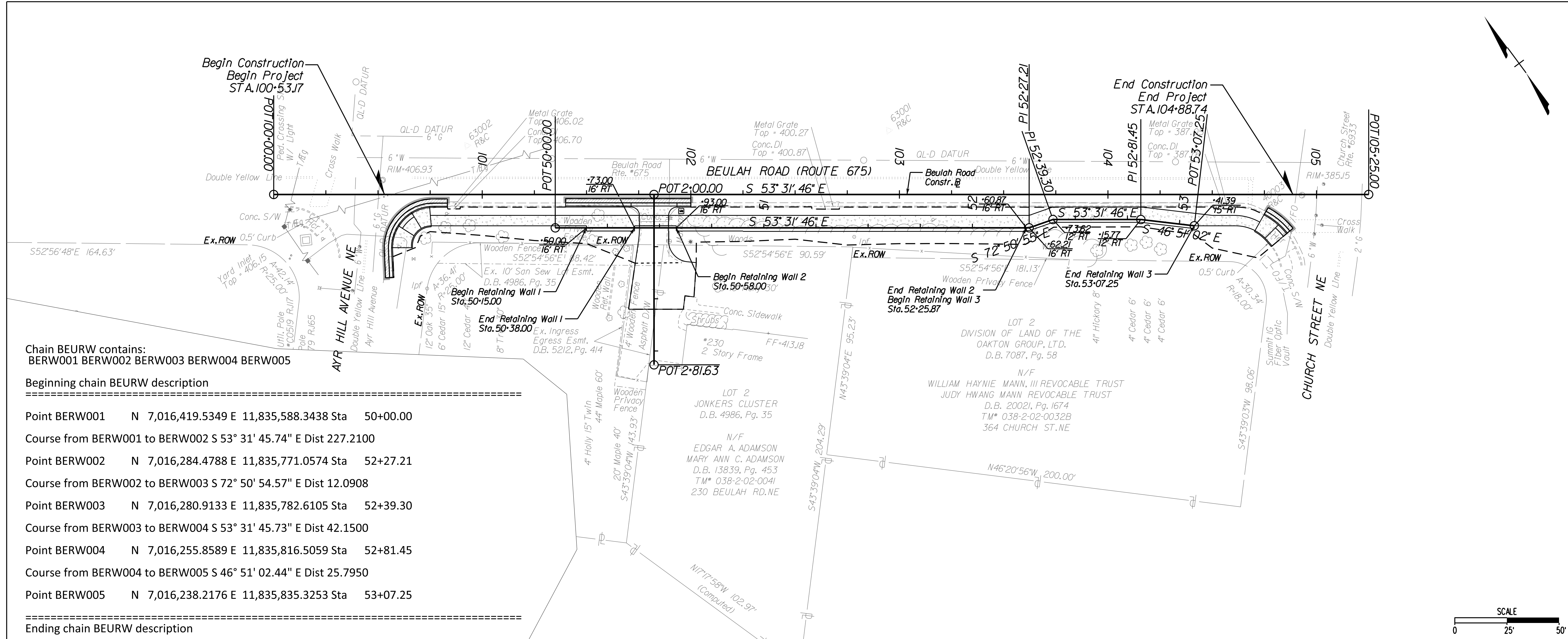
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**BEULAH ROAD  
 SIDEWALK  
 RETAINING WALL  
 PLAN AND PROFILE**

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 3A  
 DES: PS DRAWN: JZ CHECK: TL

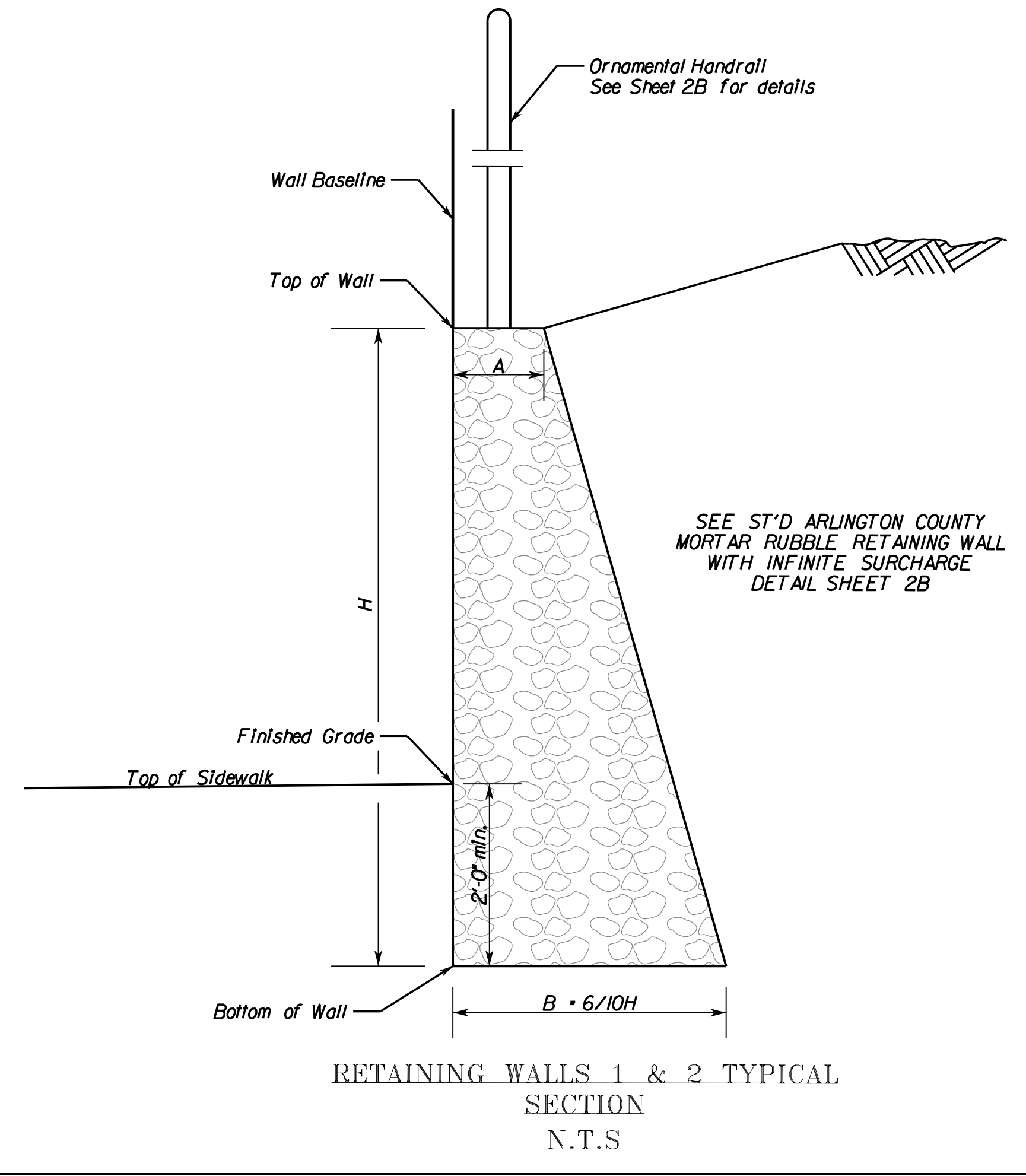
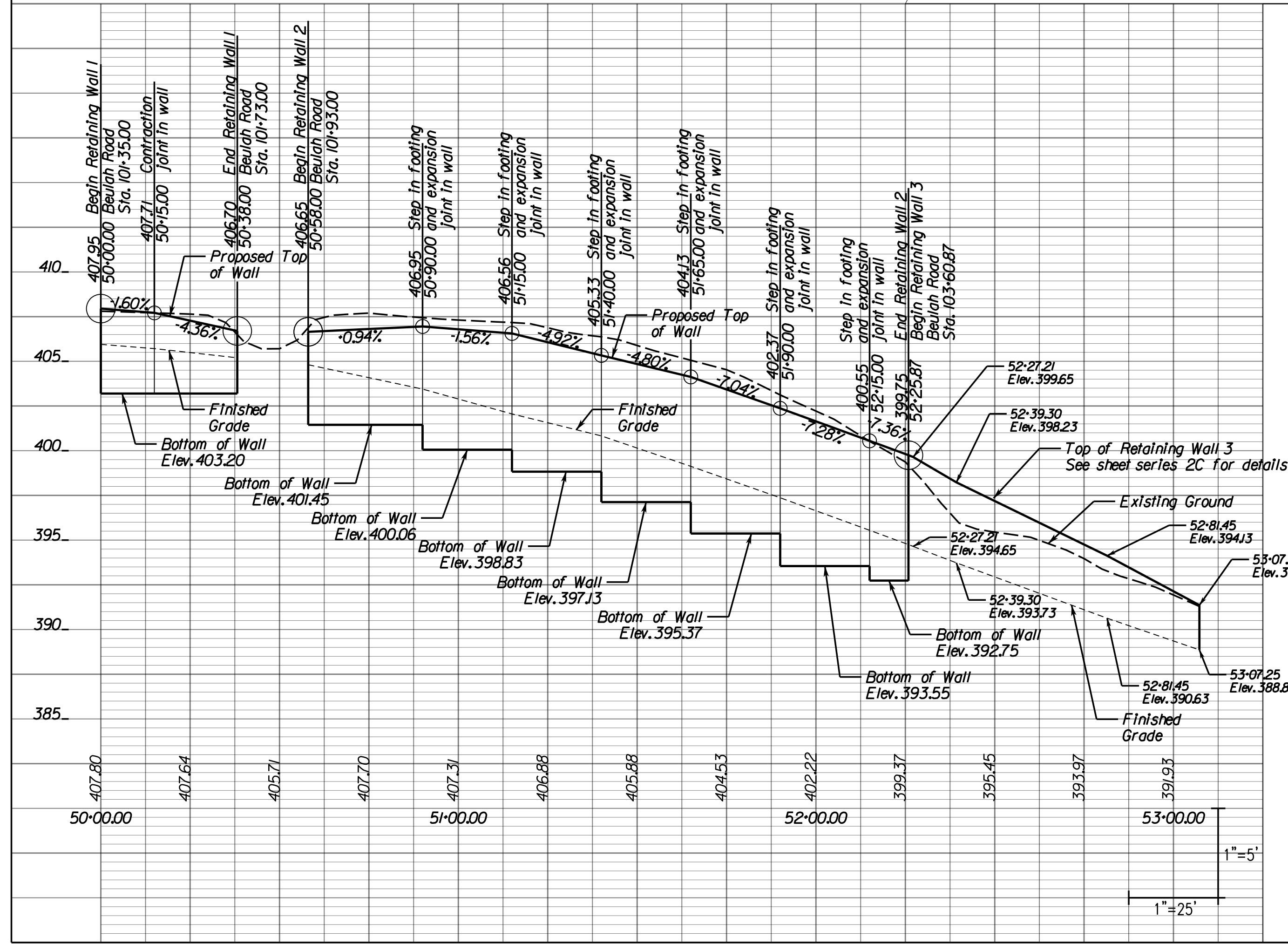
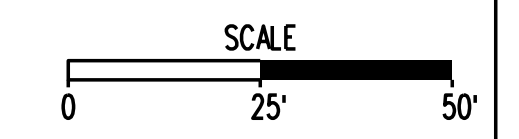


Chain BEURW contains:  
 BERW001 BERW002 BERW003 BERW004 BERW005

Beginning chain BEURW description

|                                |                                    |               |
|--------------------------------|------------------------------------|---------------|
| Point BERW001                  | N 7,016,419.5349 E 11,835,588.3438 | Sta 50+00.00  |
| Course from BERW001 to BERW002 | S 53° 31' 45.74" E                 | Dist 227.2100 |
| Point BERW002                  | N 7,016,284.4788 E 11,835,771.0574 | Sta 52+27.21  |
| Course from BERW002 to BERW003 | S 72° 50' 54.57" E                 | Dist 12.0908  |
| Point BERW003                  | N 7,016,280.9133 E 11,835,782.6105 | Sta 52+39.30  |
| Course from BERW003 to BERW004 | S 53° 31' 45.73" E                 | Dist 42.1500  |
| Point BERW004                  | N 7,016,255.8589 E 11,835,816.5059 | Sta 52+81.45  |
| Course from BERW004 to BERW005 | S 46° 51' 02.44" E                 | Dist 25.7950  |
| Point BERW005                  | N 7,016,238.2176 E 11,835,835.3253 | Sta 53+07.25  |

Ending chain BEURW description





- LEGEND:**
- PROPOSED CONCRETE (SIDEWALK, ENTRANCES, CURB RAMPS, ETC.)
  - PROPOSED CG-12 DETECTABLE WARNING SURFACE
  - ASPHALT REPAIR AT EXISTING ELEVATION
  - MINIMUM PAVEMENT WEDGING AREA
  - LIMITS OF DISTURBANCE

- NOTES:**
1. GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE.
  2. PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
  3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
  4. MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.

| REVISIONS |  |
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 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

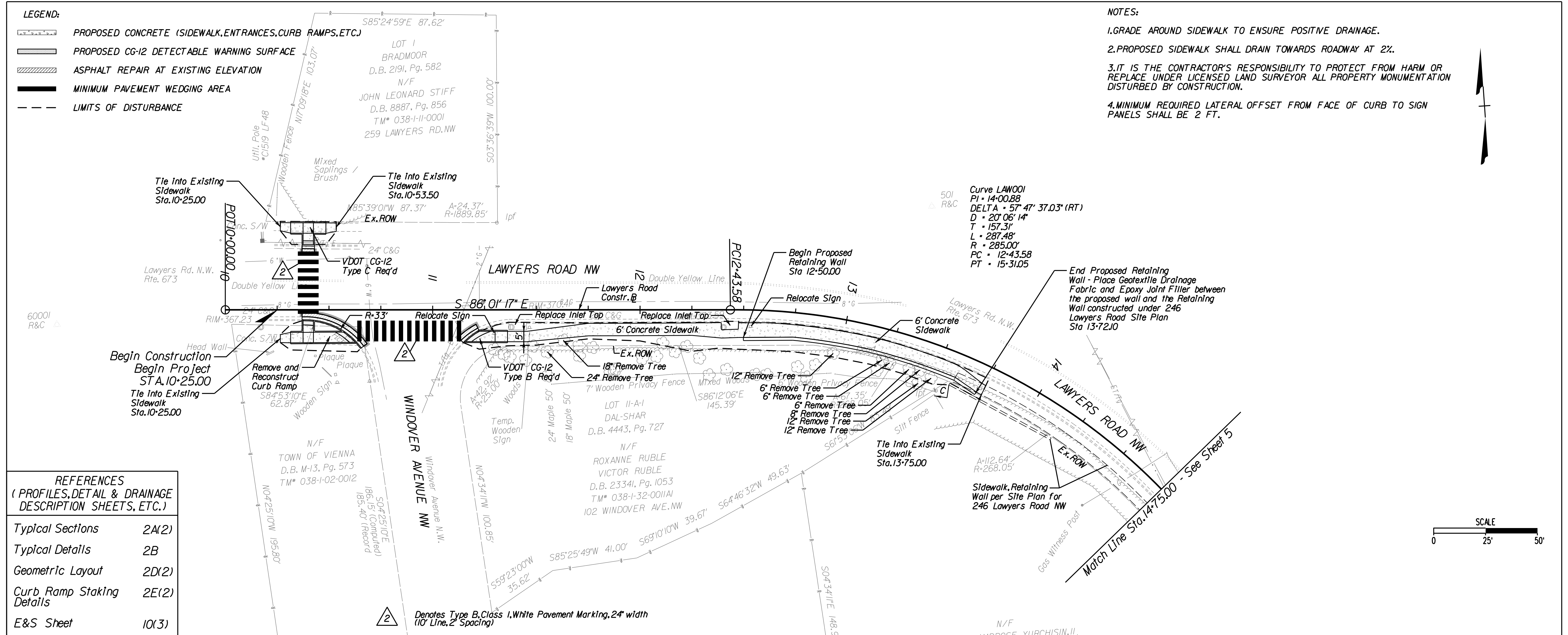
Whitman Requardt & Associates  
 Fairfax, Virginia  
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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

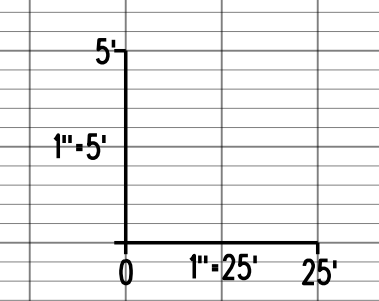
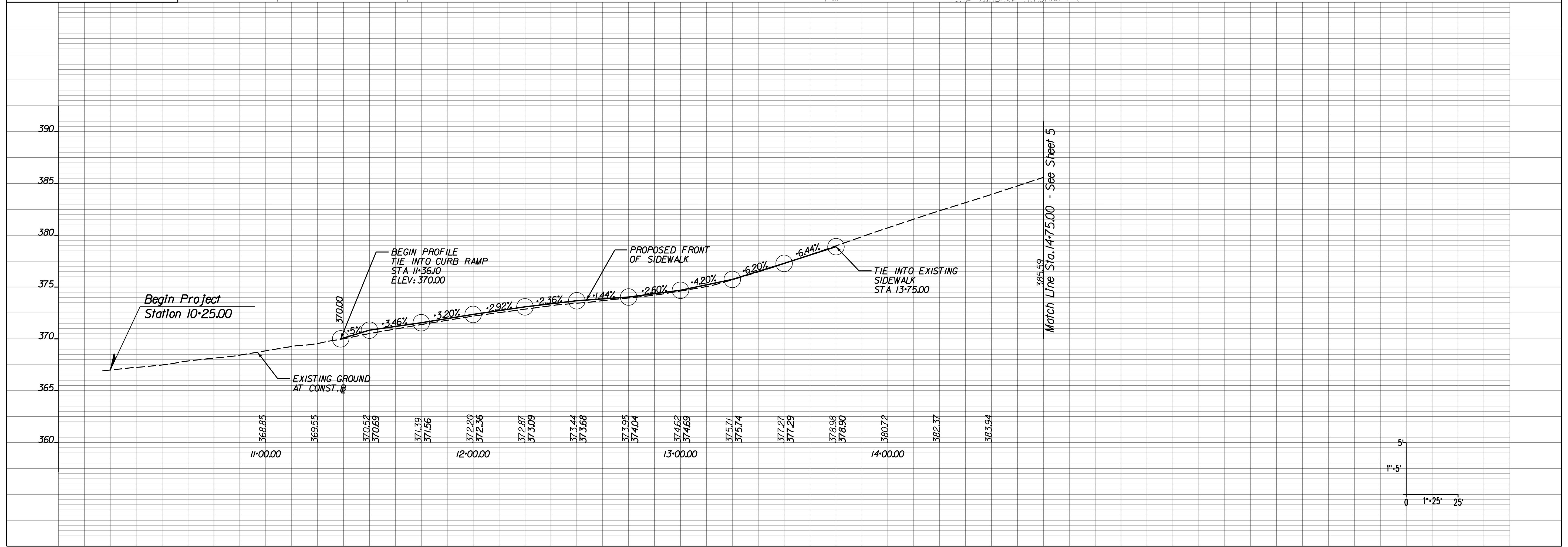
**LAWYERS ROAD  
 SIDEWALK  
 PLAN AND PROFILE**

SCALE: 1"=25'H 1"=5'V  
 DATE: 07/2023 SHEET: 4  
 DES: JZ DRAWN: PS CHECK: TL

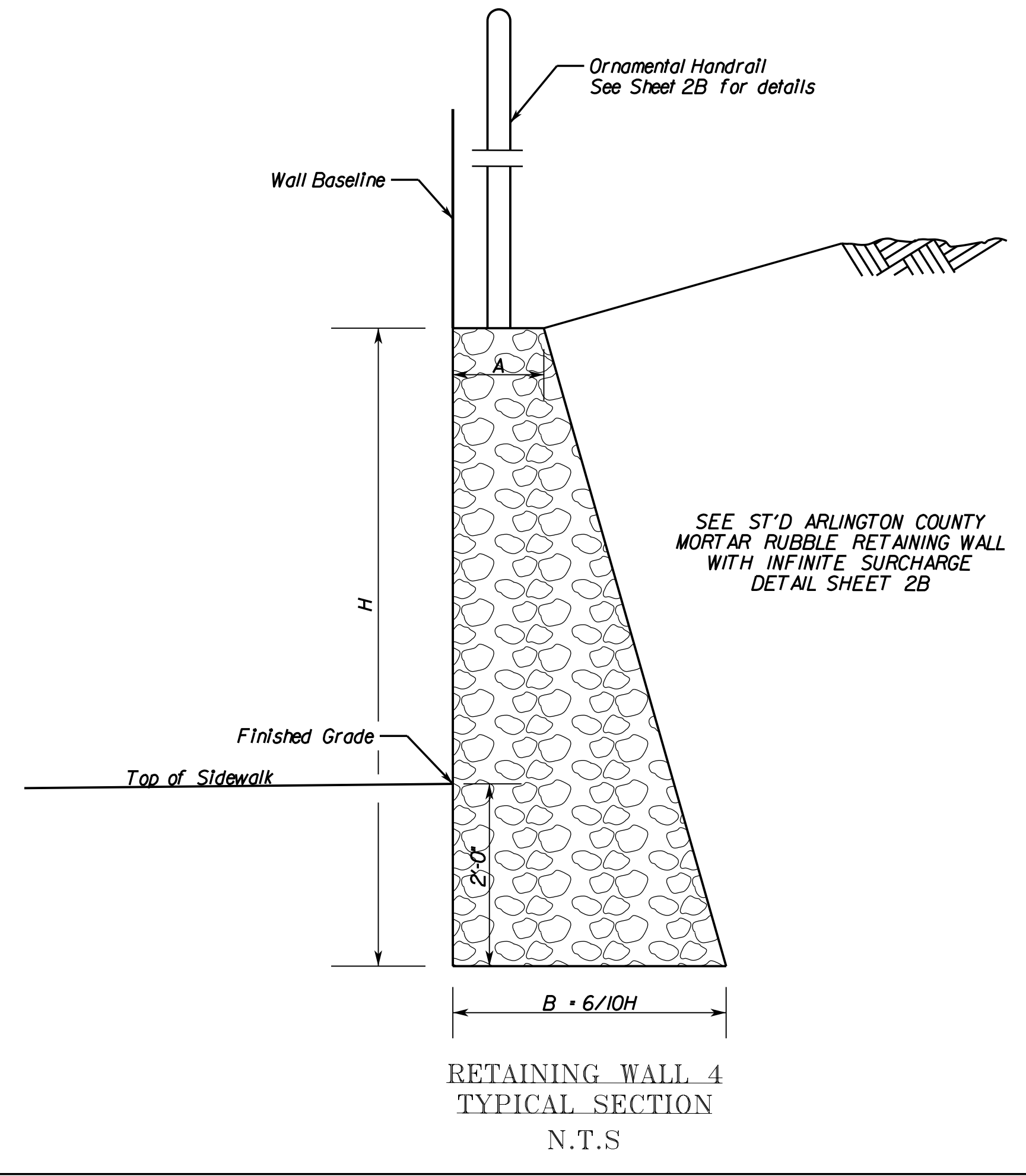
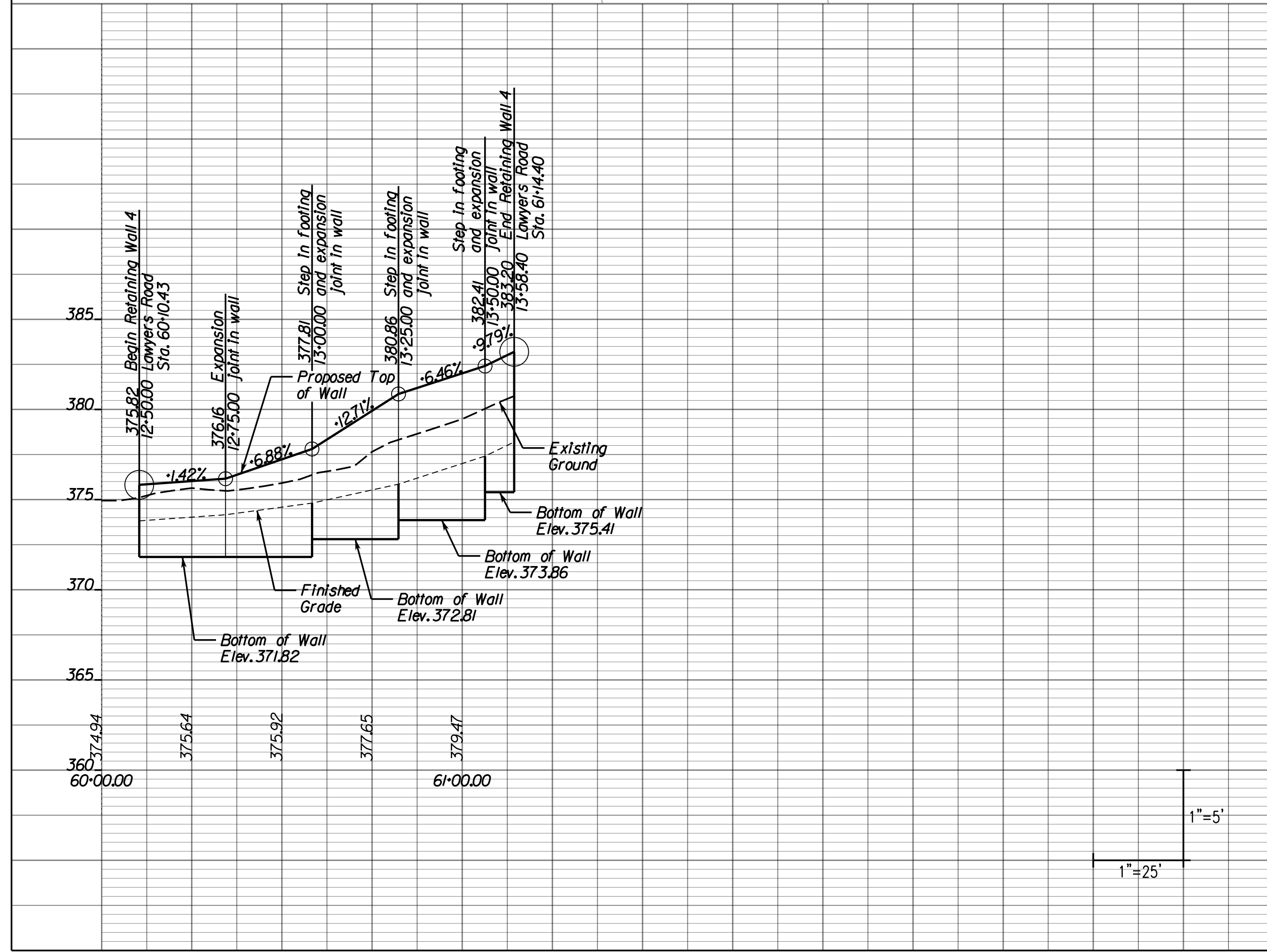
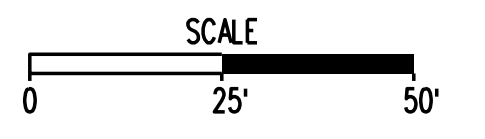
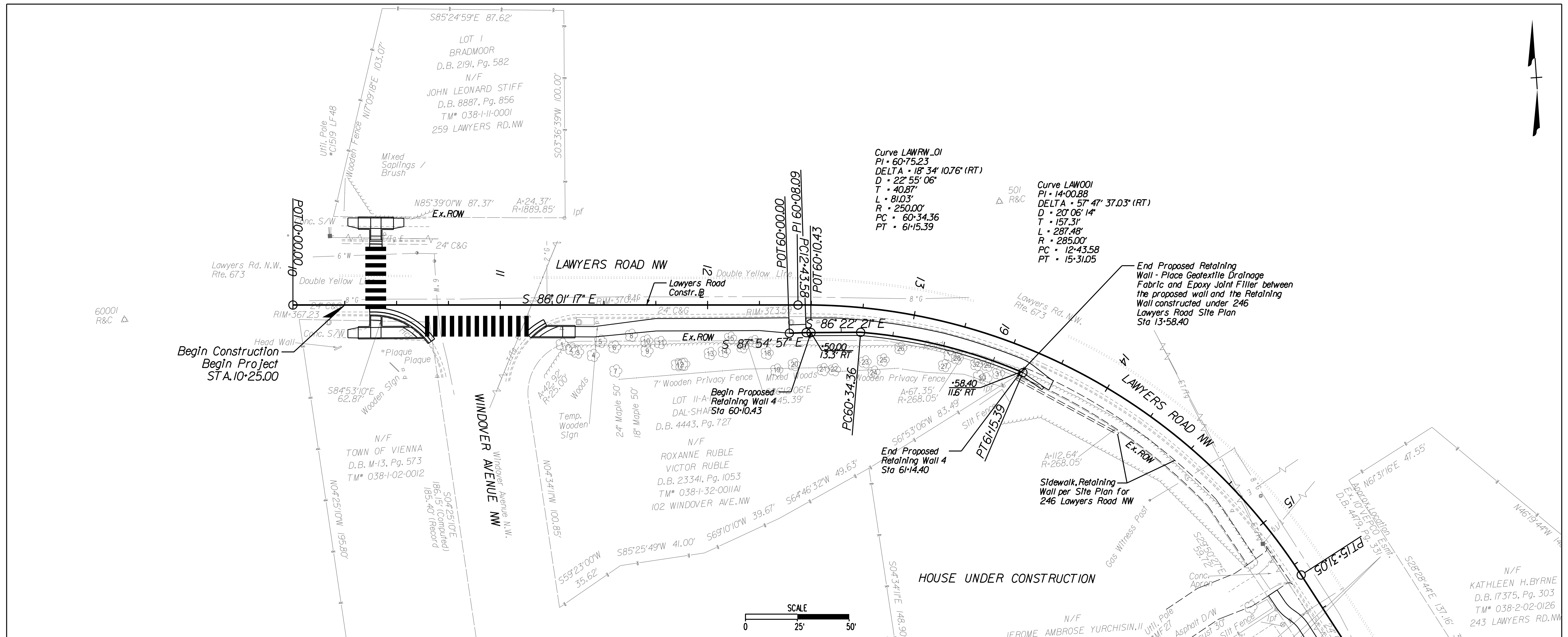


**REFERENCES  
 (PROFILES, DETAIL & DRAINAGE  
 DESCRIPTION SHEETS, ETC.)**

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|------------------------------|-------|
| Typical Sections             | 2A(2) |
| Typical Details              | 2B    |
| Geometric Layout             | 2D(2) |
| Curb Ramp Staking<br>Details | 2E(2) |
| E&S Sheet                    | 10(3) |







| REVISIONS |  |
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

N/F  
 KATHLEEN H. BYRNE  
 D.B. 17375, Pg. 303  
 TM# 038-2-02-0126  
 243 LAWYERS RD. NW

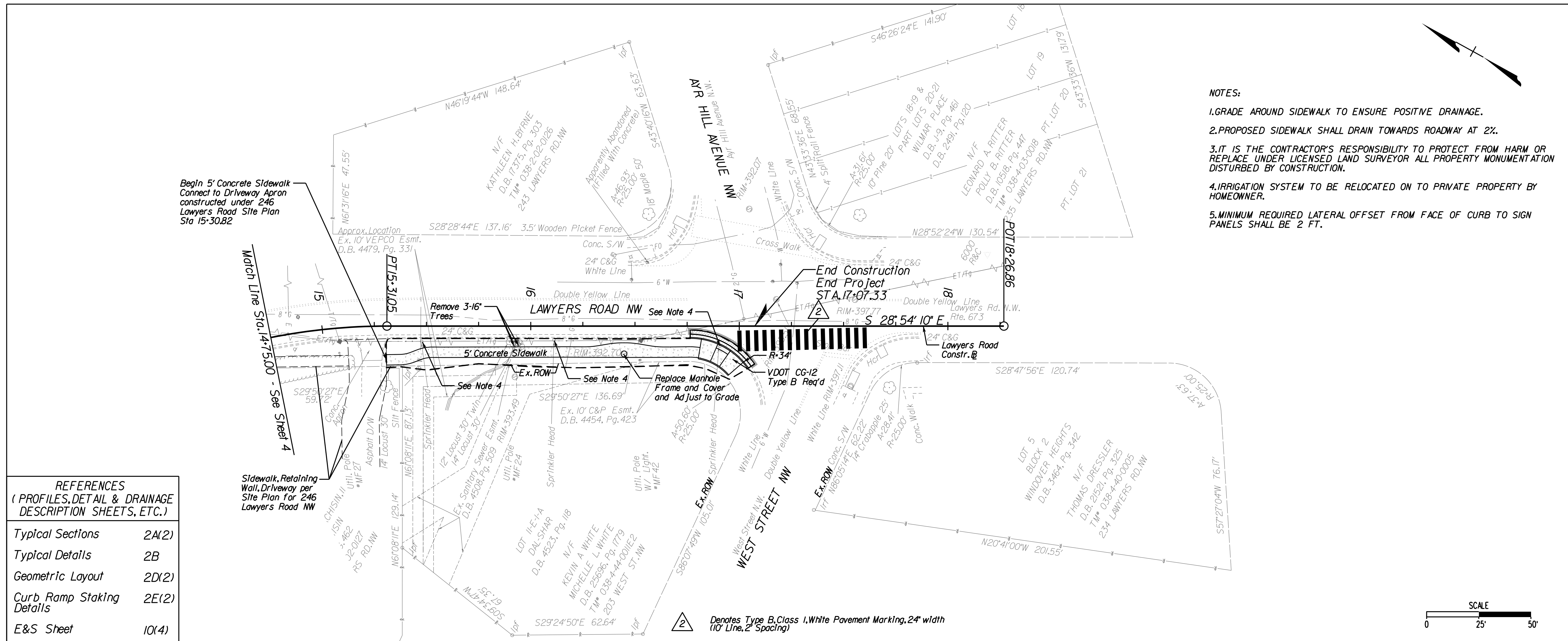
Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



**LAWYERS ROAD NW  
 SIDEWALK  
 RETAINING WALL 4  
 PLAN AND PROFILE**

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- NOTES:**
1. GRADE AROUND SIDEWALK TO ENSURE POSITIVE DRAINAGE.
  2. PROPOSED SIDEWALK SHALL DRAIN TOWARDS ROADWAY AT 2%.
  3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONSTRUCTION.
  4. IRRIGATION SYSTEM TO BE RELOCATED ON TO PRIVATE PROPERTY BY HOMEOWNER.
  5. MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.

| REFERENCES<br>(PROFILES, DETAIL & DRAINAGE<br>DESCRIPTION SHEETS, ETC.) |       |
|---|-------|
| Typical Sections  | 2A(2) |
| Typical Details   | 2B    |
| Geometric Layout  | 2D(2) |
| Curb Ramp Staking<br>Details  | 2E(2) |
| E&S Sheet   | 10(4) |

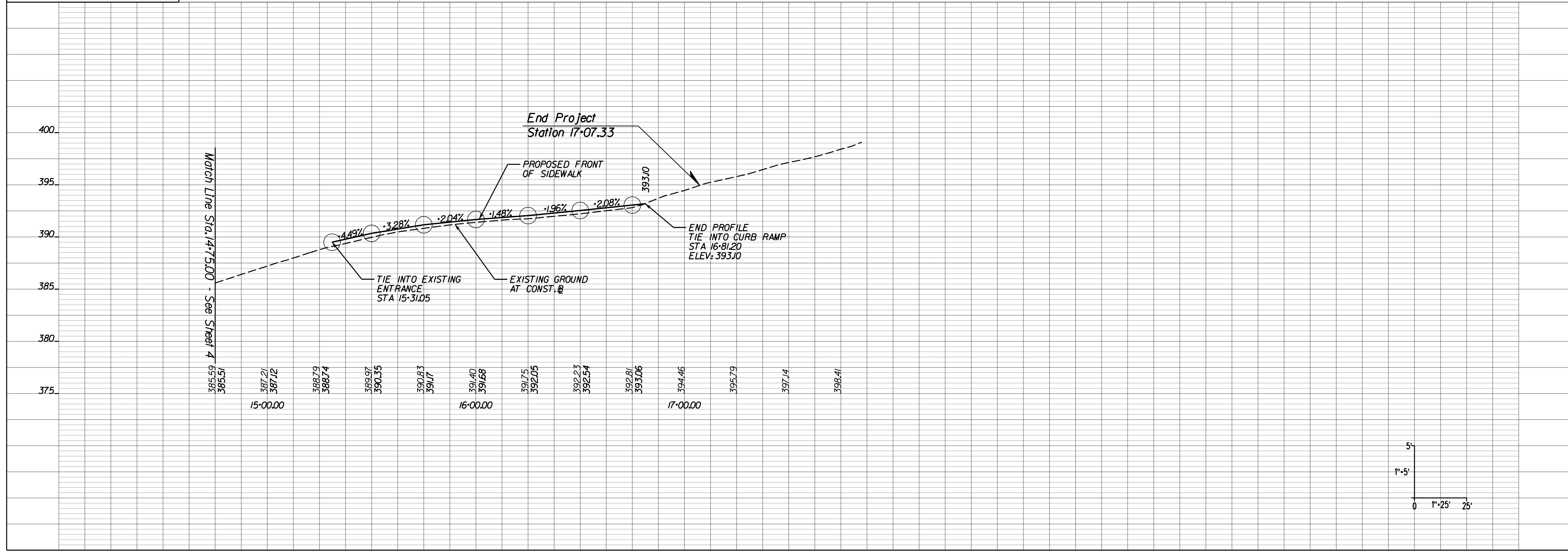
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CLIENT INFORMATION  
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**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

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 Fairfax, Virginia  
 ROADWAY ENGINEER

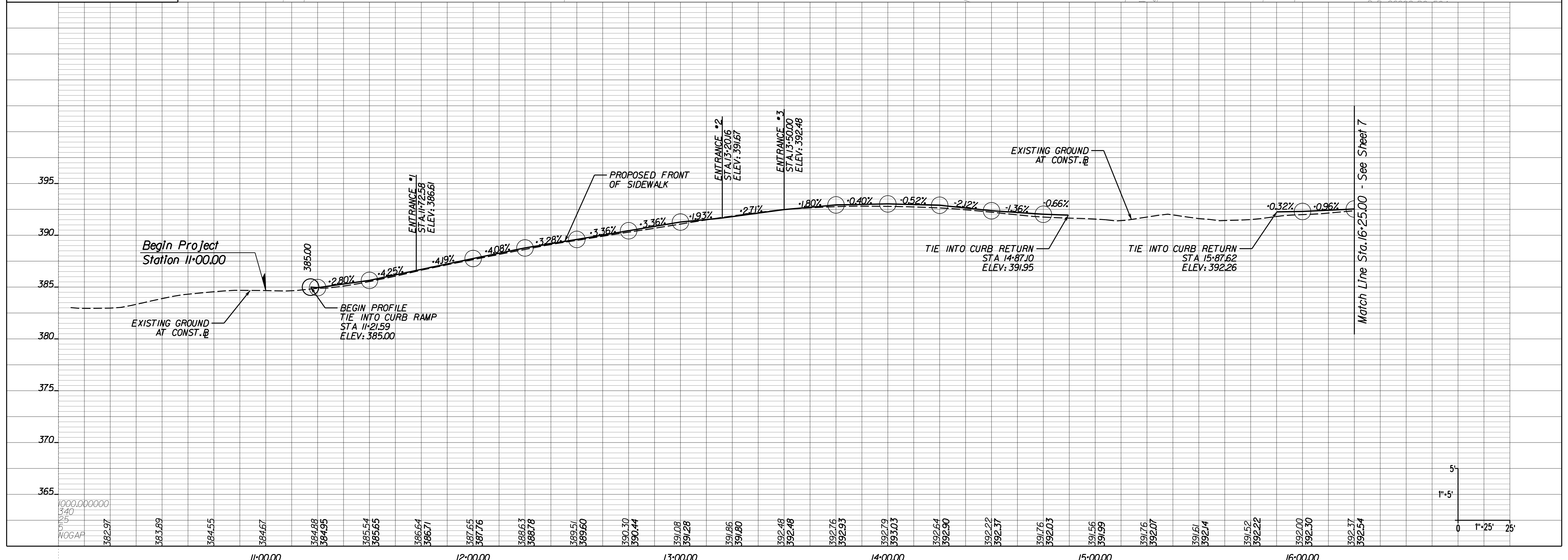
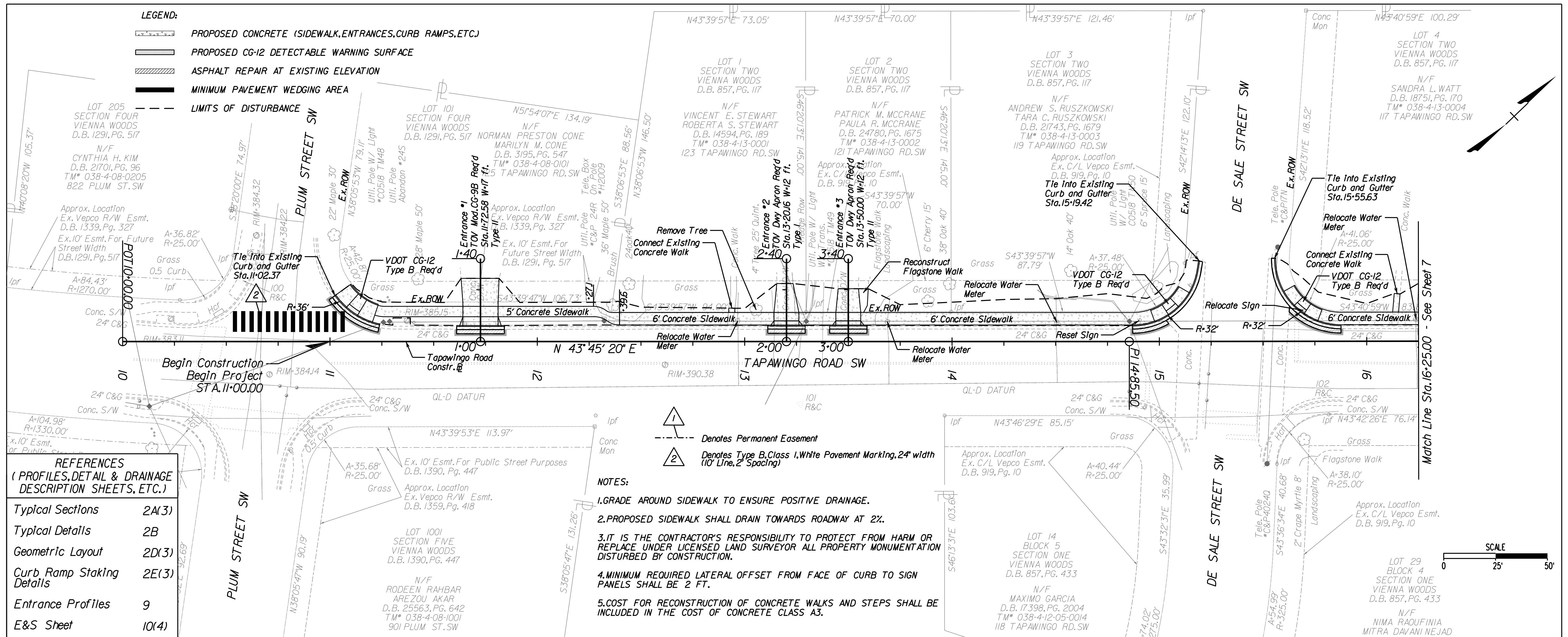
**WRA**  
 Whitman, Requardt & Associates, LLP  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033



**LAWYERS ROAD  
 SIDEWALK  
 PLAN AND PROFILE**

SCALE: 1"=25'H 1"=5'V  
 DATE: 07/2023 SHEET: 5  
 DES: JZ DRAWN: PS CHECK: TL





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CLIENT INFORMATION  
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 127 CENTER STREET SOUTH  
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**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

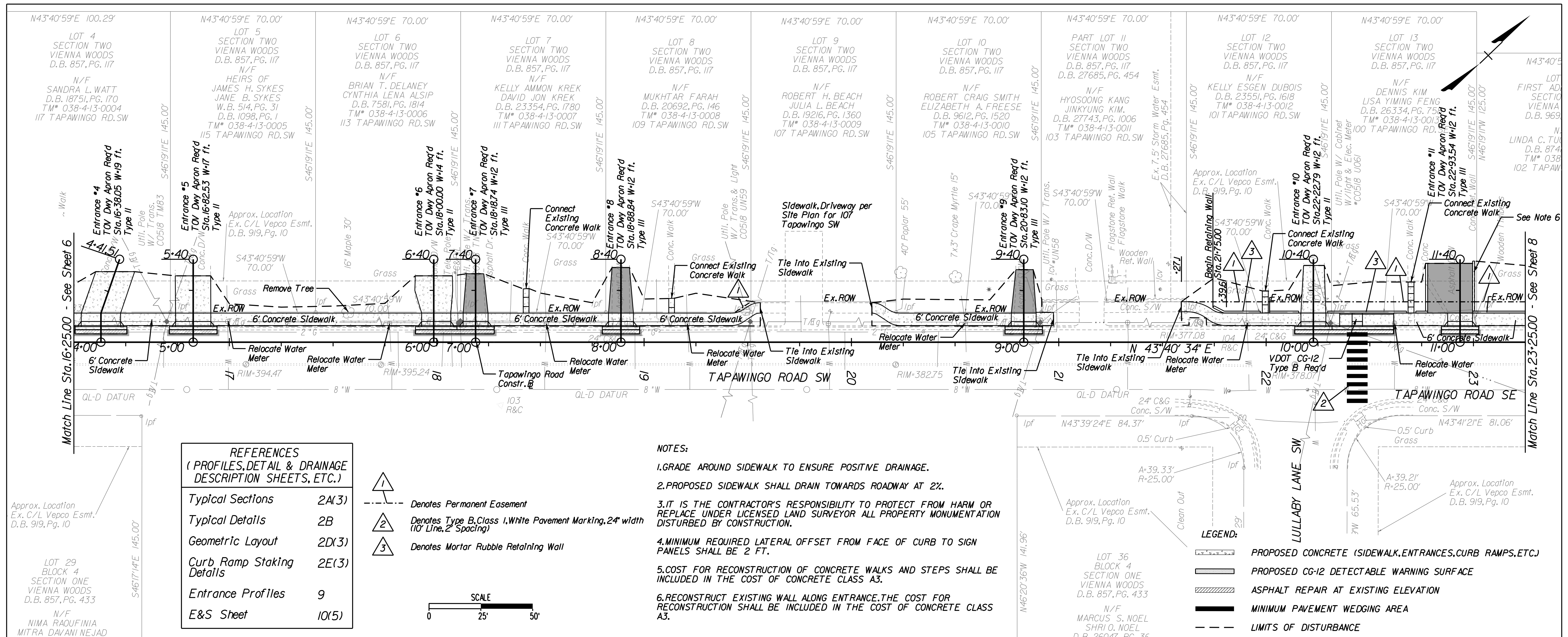
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 Fairfax, Virginia  
 ROADWAY ENGINEER

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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
 SIDEWALK  
 PLAN AND PROFILE**

SCALE: 1"=25'H 1"=5'V  
 DATE: 07/2023 SHEET: 6  
 DES: JZ DRAWN: JZ CHECK: TL



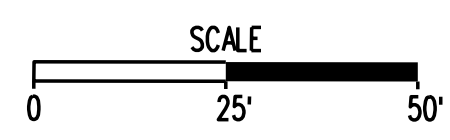


**REFERENCES**  
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

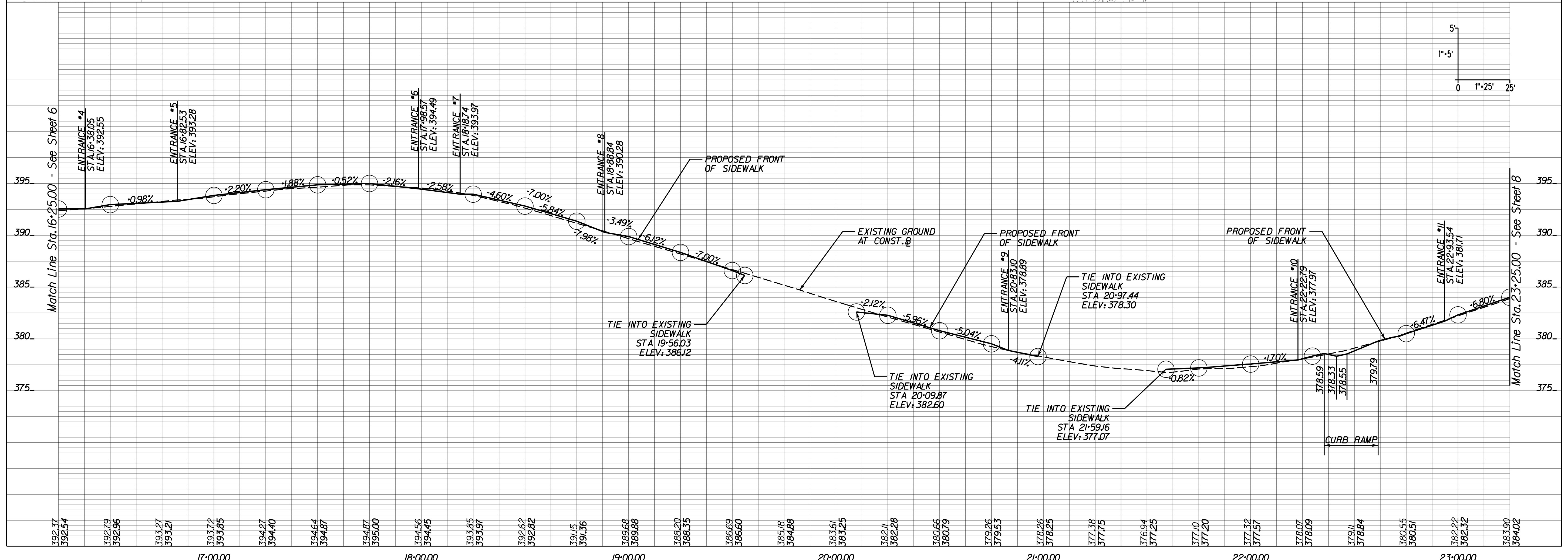
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| Typical Details           | 2B    |
| Geometric Layout          | 2D(3) |
| Curb Ramp Staking Details | 2E(3) |
| Entrance Profiles         | 9     |
| E&S Sheet                 | 10(5) |

- NOTES:**
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  - MINIMUM REQUIRED LATERAL OFFSET FROM FACE OF CURB TO SIGN PANELS SHALL BE 2 FT.
  - COST FOR RECONSTRUCTION OF CONCRETE WALKS AND STEPS SHALL BE INCLUDED IN THE COST OF CONCRETE CLASS A3.
  - RECONSTRUCT EXISTING WALL ALONG ENTRANCE. THE COST FOR RECONSTRUCTION SHALL BE INCLUDED IN THE COST OF CONCRETE CLASS A3.

- ① Denotes Permanent Easement
- ② Denotes Type B, Class I, White Pavement Marking, 24" width (10' Line, 2" Spacing)
- ③ Denotes Mortar Rubble Retaining Wall



- LEGEND:**
- PROPOSED CONCRETE (SIDEWALK, ENTRANCES, CURB RAMPS, ETC.)
  - PROPOSED CG-12 DETECTABLE WARNING SURFACE
  - ASPHALT REPAIR AT EXISTING ELEVATION
  - MINIMUM PAVEMENT WEDGING AREA
  - LIMITS OF DISTURBANCE



**REVISIONS**

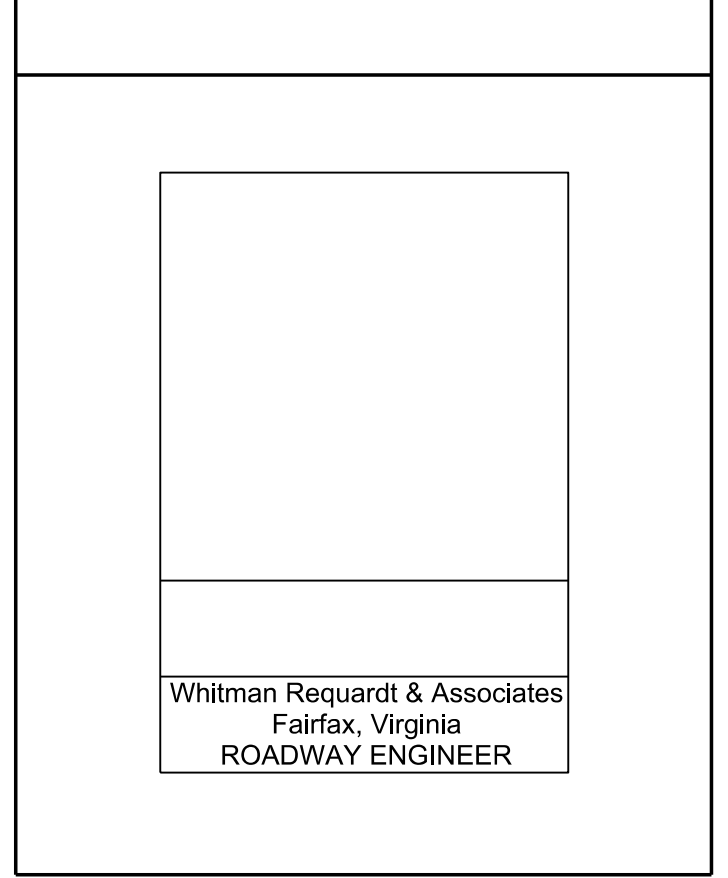
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**BEULAH ROAD  
LAWYERS ROAD NW  
TAPAWINGO ROAD SW  
SIDEWALK  
IMPROVEMENTS**

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Fairfax, Virginia  
ROADWAY ENGINEER

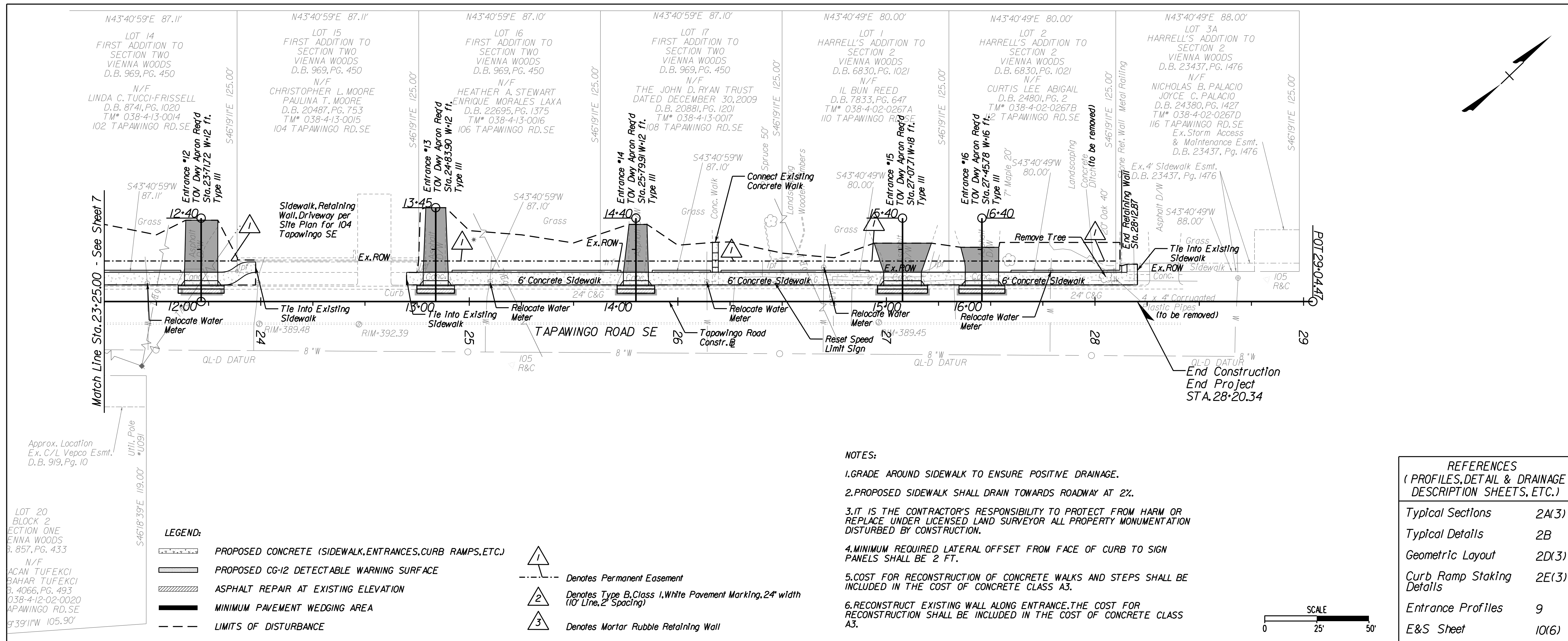


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12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
SIDEWALK  
PLAN AND PROFILE**

SCALE: 1"=25'H 1"=5'V  
DATE: 07/2023 SHEET: 7  
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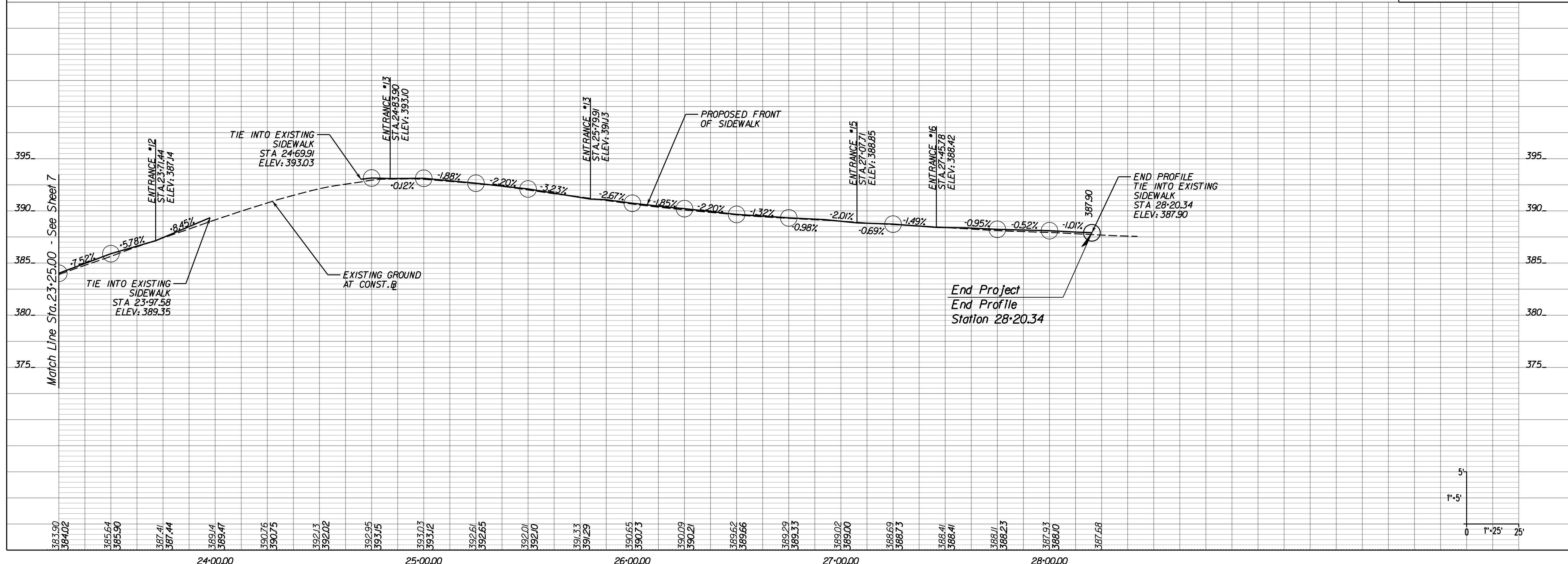
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 Fairfax, Virginia  
 ROADWAY ENGINEER

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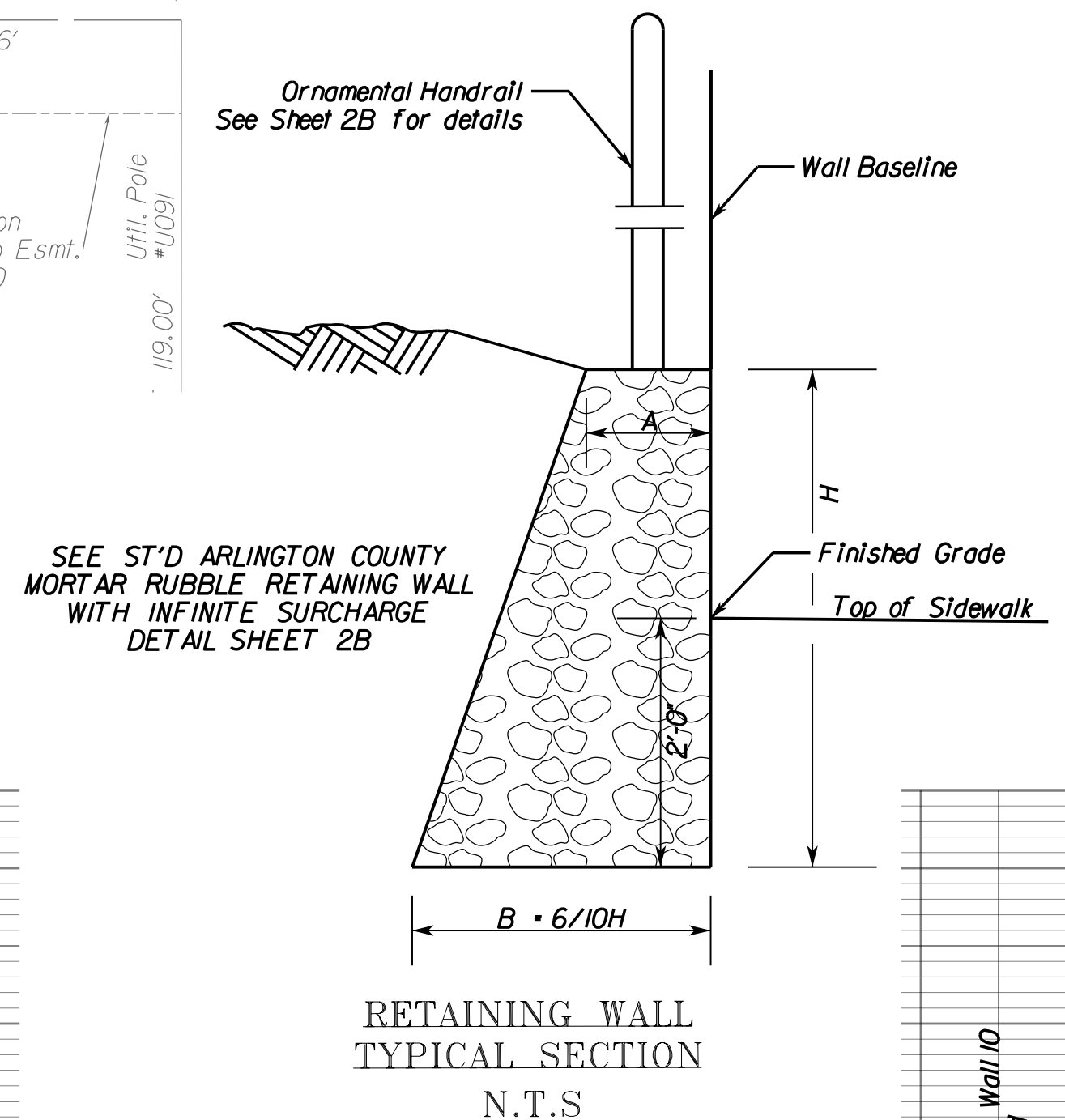
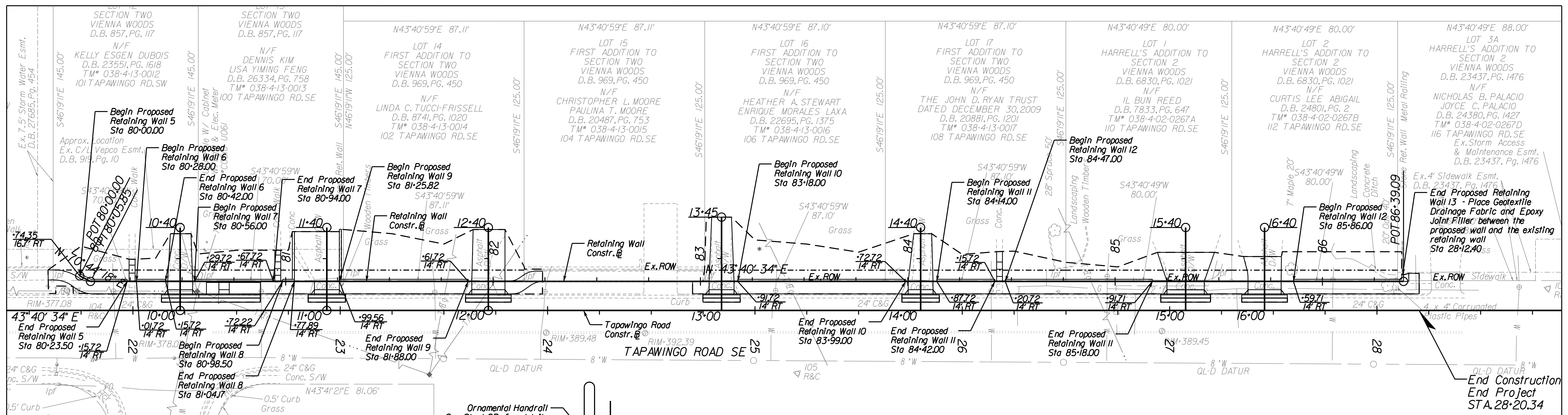
**TAPAWINGO ROAD  
 SIDEWALK  
 PLAN AND PROFILE**

SCALE: 1"=25'H 1"=5'V

DATE: 07/2023 SHEET: 8

DES: JZ DRAWN: JZ CHECK: TL





Chain TAPWRW contains:  
TAPRW01 TAPRW02 TAPRW03

Beginning chain TAPWRW description

Point TAPRW01 N 7,011,128.3186 E 11,837,231.5040 Sta 80+00.00

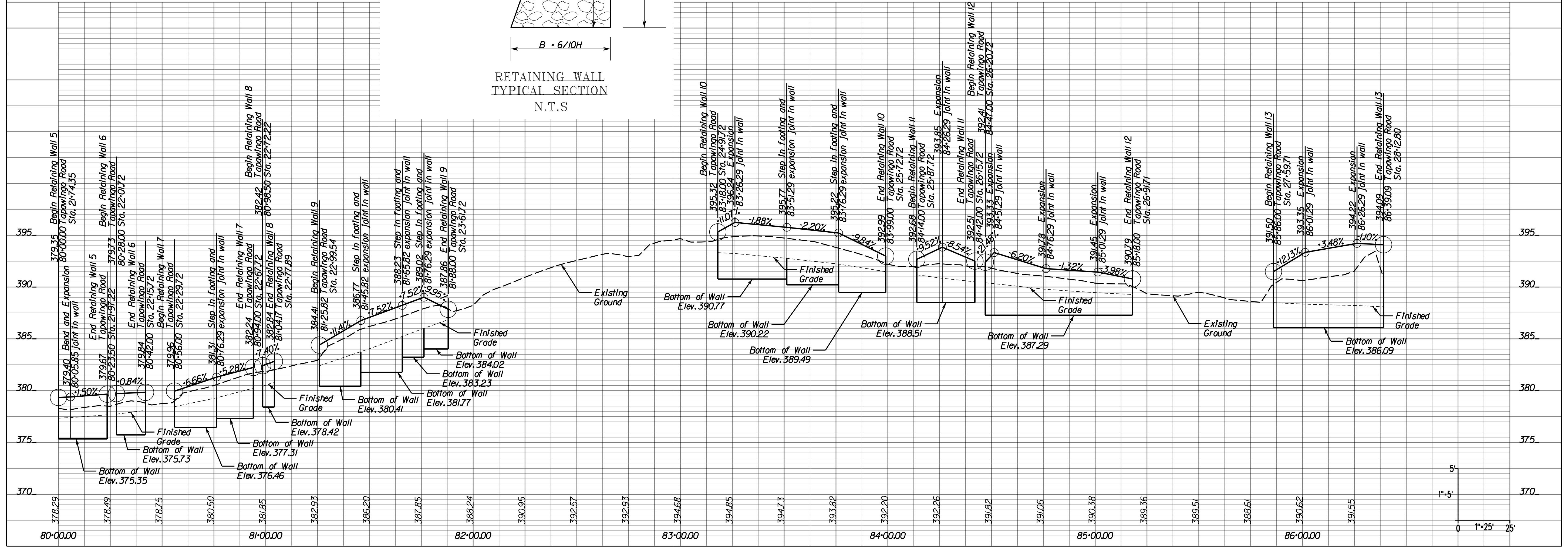
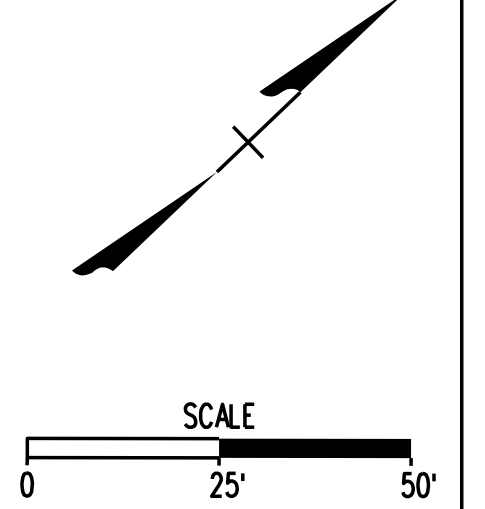
Course from TAPRW01 to TAPRW02 N 70° 44' 17.68" E Dist 5.8529

Point TAPRW02 N 7,011,130.2494 E 11,837,237.0292 Sta 80+05.85

Course from TAPRW02 to TAPRW03 N 43° 40' 33.80" E Dist 633.2365

Point TAPRW03 N 7,011,588.2414 E 11,837,674.3299 Sta 86+39.09

Ending chain TAPWRW description



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**TAPAWINGO ROAD  
SIDEWALK  
RETAINING WALL  
PLAN AND PROFILE**

SCALE: 1"=25'H 1"=5'V

DATE: 07/2023 SHEET: 8A

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# EROSION AND SEDIMENT CONTROL NARRATIVE

## PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A SIDEWALK IMPROVEMENT PLAN FOR THE EXISTING BEULAH ROAD LAWYERS ROAD SW AND TAPAWINGO ROAD SW/SE. IMPROVEMENTS INCLUDE CURB AND GUTTER, SIDEWALK, DRIVEWAY ENTRANCES, CG-12 DETECTABLE WARNING SURFACES, AND RETAINING WALLS. THE TOTAL DISTURBED AREA FOR THE PROJECT IS 0.92 ACRES.

## EXISTING SITE CONDITIONS

THE SITES ARE EXISTING ROADWAYS, BEULAH ROAD, LAWYERS ROAD SW, AND TAPAWINGO ROAD SW/SE, WITH CURB AND GUTTER, DRIVEWAY ENTRANCES, AND FRONT YARDS CONTAINING MAILBOXES, WATER METERS, TREES, FENCE, ROAD SIGNS, STEPS, WALKS, ETC.

## ADJACENT PROPERTIES

THE SITES ARE SURROUNDED ON ALL SIDES BY SINGLE-FAMILY LOTS.

## OFF-SITE AREAS

THERE IS CONSTRUCTION ON OFF-SITE AREAS ADJACENT TO THE ROADWAY. EROSION AND SEDIMENT CONTROL DEVICES WILL BE PLACED OFFSITE AS SHOWN ON PLAN.

## SOILS INFORMATION

| SOIL ID NUMBERS | SOIL SERIES NAME          | FOUNDATION SUPPORT | SOIL DRAINAGE | EROSION POTENTIAL | PROBLEM CLASS |
|-----------------|---------------------------|--------------------|---------------|-------------------|---------------|
| 105B            | WHEATON-GLENELG COMPLEX   | GOOD               | GOOD          | HIGH              | IVB           |
| 108B            | WHEATON-SUMERDUCK COMPLEX | MARGINAL-W,B       | POOR-W,S      | MEDIUM            | IVB           |

## CRITICAL EROSION AREAS

THERE ARE NO CRITICAL AREAS ASSOCIATED WITH THIS PROJECT. AND THERE ARE NOT RESOURCE PROTECTION AREAS WITHIN THE PROJECT LIMITS.

## EROSION AND SEDIMENT CONTROL MEASURES

THE EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT ARE DESCRIBED IN DETAIL IN THE EROSION AND SEDIMENT CONTROL PROGRAM ON THIS SHEET.

## OVERALL MANAGEMENT STRATEGY

THE OVERALL STRATEGY FOR THESE SITES ARE TO TREAT THE ONSITE RUNOFF WITH PERIMETER SILT FENCE AND INLET PROTECTION.

## EROSION CONTROL PROGRAM (GENERAL GUIDELINES)

NOT MORE THAN 75% OF THE SITE IS TO BE DENUDE AT ONE TIME. TEMPORARY SEEDING AND MULCHING ARE TO BE APPLIED TO ANY AREA WITHIN THE SITE NOT CONTINUOUSLY WORKED FOR 5 DAYS AFTER CLEARING AND ROUGH GRADING. IN ADDITION, THE CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO MINIMIZE THE VOLUME OF SILT:

- CONTRACTOR SHALL EVALUATE THE SITE TO DETERMINE EXTENSIVE CUT AND FILL AREAS AND SHALL WORK THOSE AREAS TO MINIMIZE THE EXTENT OF HEAVY EQUIPMENT WORK. CONTRACTOR SHALL STRIVE TO BRING AREAS TO GRADE (ROUGH OF FINISH) AND TO STABILIZE, BY TEMPORARY OR PERMANENT VEGETATION, THESE DISTURBED AREAS PRIOR TO BEGINNING WORK IN OTHER AREAS.
- FILL AREAS SHALL BE COMPACTED COMPLETELY PRIOR TO THE END OF EACH WORK DAY. FILL SLOPE SURFACES SHALL BE LEFT ROUGHENED TO REDUCE SHEET EROSION OF THE SLOPES. CONTRACTOR SHALL REDIRECT CONCENTRATED RUNOFF, BY EARTH BERMS OR OTHER DEVICES, AROUND ACTIVELY DISTRIBUTED AREAS TO STABILIZE OUTLETS.
- CUT SLOPE, AS NECESSARY, SHALL BE PROTECTED FROM CONCENTRATED FLOW BY BERMS ABOVE THE SLOPE AND DIRECTED AROUND THE DISTURBED AREA TO STABILIZED OUTLETS.
- IN NEW PAVEMENT AREAS, PLACE THE AGGREGATE BASE STONE ON THE FINISHED SUBGRADE AT THE EARLIEST POSSIBLE TIME.
- MATERIALS AND METHODS USED IN CONSTRUCTION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES REQUIRED SHALL CONFORM TO THE CONSTRUCTION STANDARDS AND SPECIFICATIONS IN CHAPTER 3 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH), THIRD EDITION, 1992, AS WELL AS ANY OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- WHERE APPROPRIATE AND FEASIBLE, AREAS IN WHICH NATURAL GRADES ARE NOT IMPACTED BY PROPOSED GRADING OR STOCKPILE AREAS, SHALL BE LEFT WITH THEIR EXISTING VEGETATION IN PLACE. ALL AREAS SUBJECT TO GRADING SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL.
- PERMANENT OR SOIL STABILIZATION SHALL BE APPLIED TO DENUDE 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 DENUDE 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 1 YEAR.

## SEDIMENT CONTROL PROGRAM (PHASE 1)

- INSTALL PERIMETER CONTROLS AS SHOWN ON THE E&S PLAN (ORANGE SAFETY FENCE, SILT FENCE, INLET PROJECTION, TREE PROTECTION, ETC.)

PERIMETER CONTROLS MUST BE APPROVED IN WRITING BY THE TOWN E&S INSPECTOR BEFORE CLEARING OF THE SITE CAN TAKE PLACE.

- BEGIN GRADING OF PROJECT SITE AND RELOCATION OF UTILITIES.

## SEDIMENT CONTROL PROGRAM (PHASE 2)

- BEGIN CONSTRUCTION OF SIDEWALK, DRIVEWAY ENTRANCES, PAVEMENT, CURB AND GUTTER, AND RETAINING WALLS
- INLET PROTECTION (IP) INSTALLED SHALL BE ROUTINELY INSPECTED AND REPLACED IF NECESSARY.
- PERMANENTLY STABILIZE UNPAVED AREAS WITH SOD (PER SEC. 3.33 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK).
- THE CONTROL MEASURES MAY NOT BE REMOVED UNTIL ALL OF THE DISTURBED AREAS HAVE BEEN STABILIZED AND ONLY AS APPROVED AND DIRECTED BY THE INSPECTOR.

## MAINTENANCE

THE FOLLOWING IS A PROGRAM OF MAINTENANCE FOR THE MECHANICAL AND PERMANENT CONTROLS SPECIFIED IN THIS NARRATIVE AND ON THE PLAN:

- THE SITE SUPERINTENDENT, OR HIS REPRESENTATIVE, SHALL MAKE A VISUAL INSPECTION OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E., SEEDED OR SODDED AREAS) ON A DAILY BASIS (ESPECIALLY AFTER A HEAVY RAINFALL) TO ENSURE THAT ALL CONTROLS ARE IN PLACE AND THAT NONE HAVE BEEN DAMAGED. ANY DAMAGED CONTROL SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY TO INCLUDE RESEEDING OR RESETTling, IF NECESSARY. WHEN IT IS CLEAR THAT PLANTS HAVE NOT GERMINATED ON AN AREA OR HAVE DIED, THESE AREAS MUST BE RE-SEEDING IMMEDIATELY TO PREVENT EROSION DAMAGE.
- AFTER ALL CONSTRUCTION OPERATIONS HAVE ENDED AND ALL DISTURBED AREAS ARE STABILIZED, MECHANICAL SEDIMENT CONTROLS SHALL BE REMOVED AND THE GROUND SHALL BE RESTORED ESTABLISHMENT OF VEGETATION, TO ITS NATURAL OR PROPOSED CONDITION. REMOVAL OF ANY CONTROL IS CONTINGENT UPON APPROVAL BY THE TOWN INSPECTOR.

## PERMANENT STABILIZATION

AFTER CONSTRUCTION IS COMPLETE ALL DISTURBED AREAS SHALL BE SODDED AND MULCHED IN ACCORDANCE WITH SEC. 3.33 AND 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

## STORMWATER MANAGEMENT

N/A

## ADDITIONAL NOTES

- THE TOWN INSPECTOR SHALL HAVE THE AUTHORITY TO DIRECT THE ADDITION OR DELETION OF EROSION AND SEDIMENT CONTROLS AS SITE CONDITIONS WARRANT.
- EARTHEN STRUCTURES ARE TO BE STABILIZED IMMEDIATELY UPON COMPLETION.

## EROSION AND SEDIMENT CONTROL MEASURES

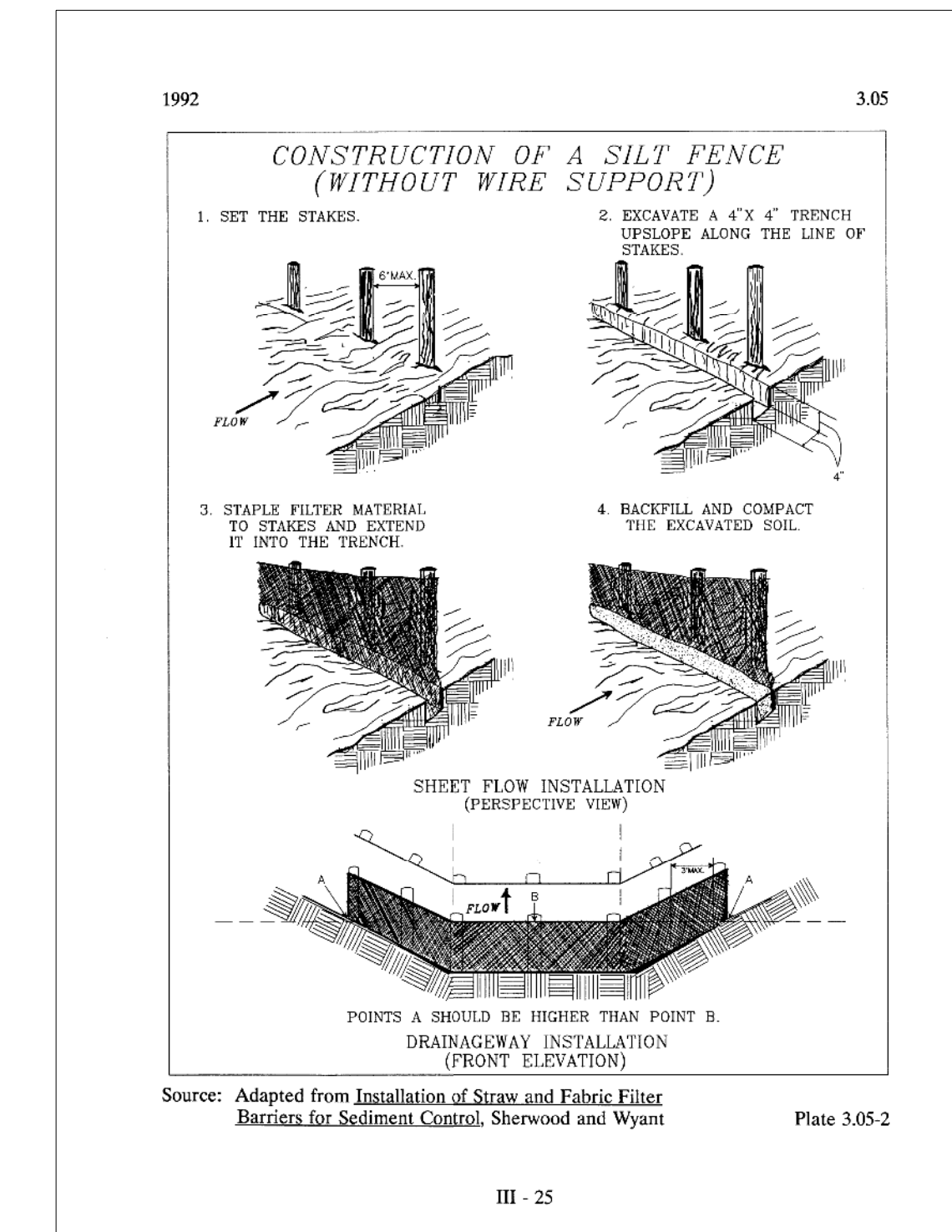
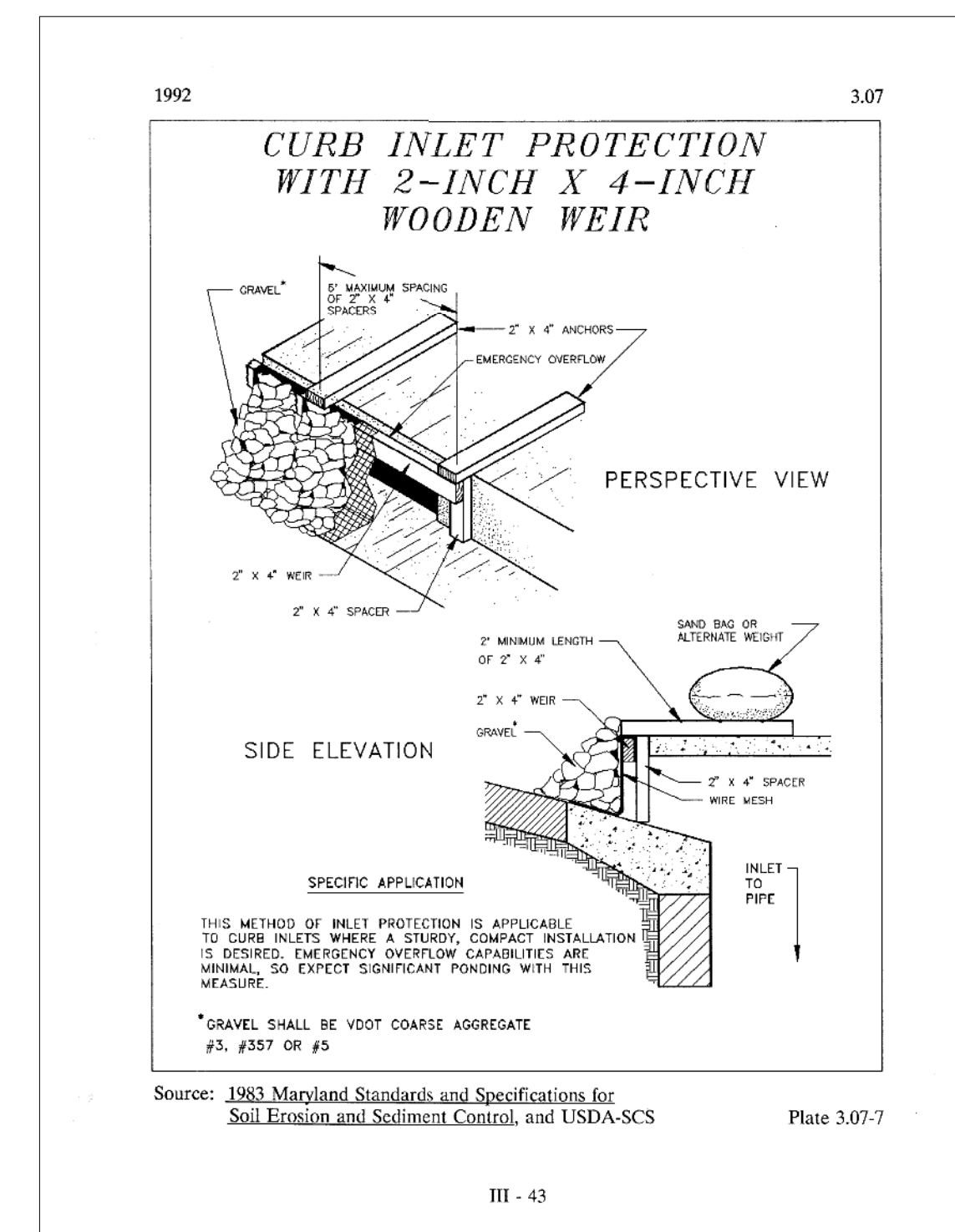
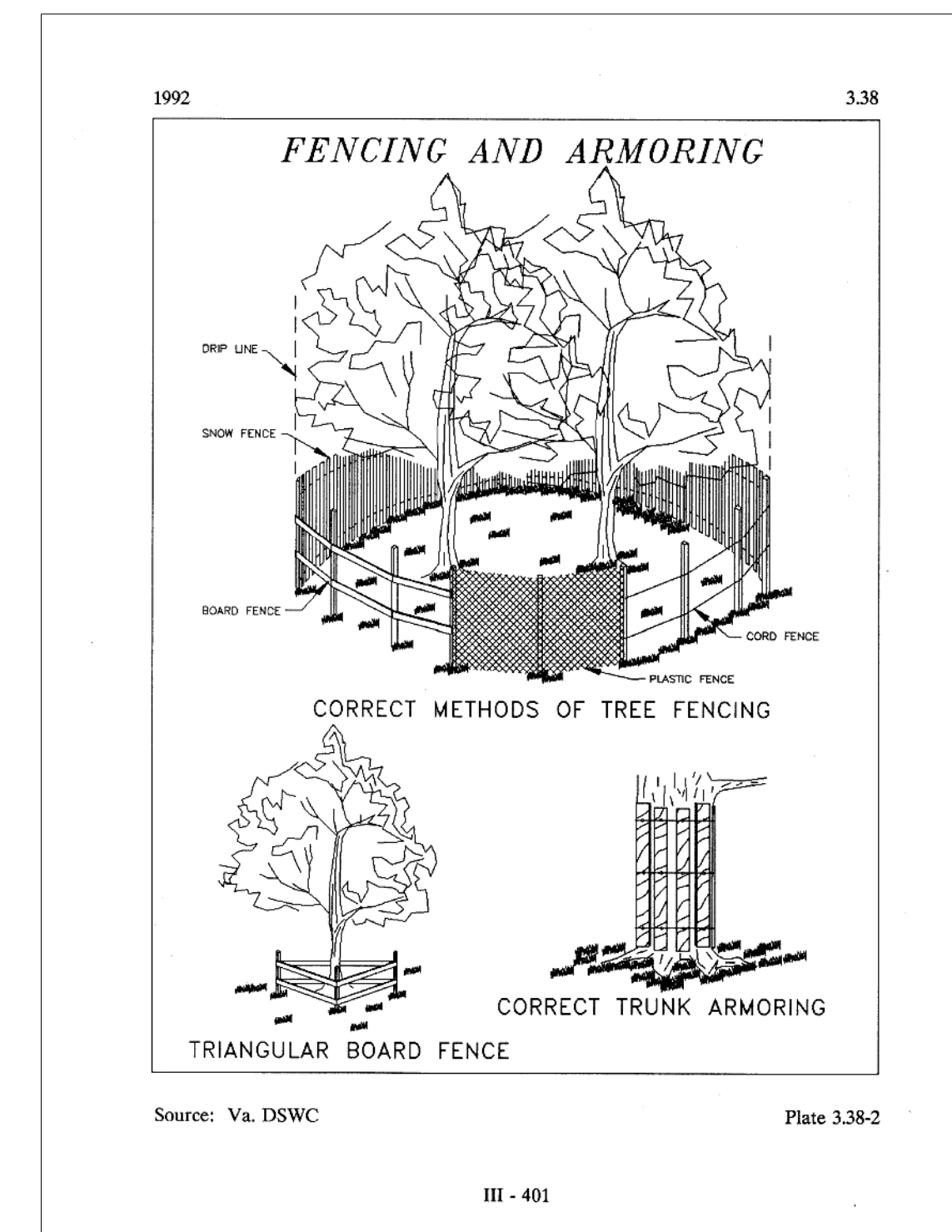
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VESCH.

THE STRUCTURAL PRACTICES PROPOSED WITH THIS PLAN ARE AS FOLLOWS:

- SAFETY FENCE - 3.01**  
A PROTECTIVE BARRIER INSTALLED TO PREVENT ACCESS TO AN EROSION CONTROL MEASURE OR PROJECT AREA.
- SILT FENCE - 3.05**  
A TEMPORARY SEDIMENT BARRIER CONSISTING OF A SYNTHETIC FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED.
- STORM DRAIN INLET PROTECTION - 3.07**  
A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET.
- TOPSOIL - 3.30**  
PRESERVING AND REUSING THE SURFACE LAYER OF SOIL FROM AREAS TO BE GRADED.
- TEMPORARY SEEDING - 3.31**  
THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS.
- SODDING - 3.33**  
STABILIZING FINE-GRADED DISTURBED AREAS BY ESTABLISHING PERMANENT GRASS STANDS WITH SOD.
- MULCHING - 3.35**  
APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE.
- TREE PROTECTION - 3.38**  
PROTECTION OF DESIRABLE TREES FROM MECHANICAL AND OTHER INJURY DURING LAND DISTURBING AND CONSTRUCTION ACTIVITY.
- DUST CONTROL - 3.39**  
REDUCING SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBING, DEMOLITION, AND CONSTRUCTION ACTIVITIES, BY SPRAYING FROM A WATER TRUCK OR OTHER APPROVED METHOD.

# GENERAL LAND CONSERVATION NOTES

- ALL LAND CONSERVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- NO DISTURBED AREA WILL REMAIN DENUDE FOR MORE THAN 14 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE TOWN.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
- ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDING AND MULCHED WITHIN 5 DAYS AFTER BACKFILL.
- ALL TEMPORARY EARTH BERMS, AND DIVERSIONS ARE TO BE MULCHED AND SEEDING FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY SILTATION AND EROSION CONTROLS SHALL BE REMOVED AND ALL DISTURBED AREAS SHALL BE STABILIZED.



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CLIENT INFORMATION  
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**EROSION AND  
SEDIMENT CONTROL  
NARRATIVE AND  
DETAILS**

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# EROSION AND SEDIMENT CONTROL

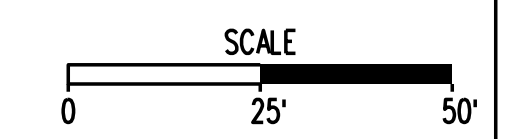
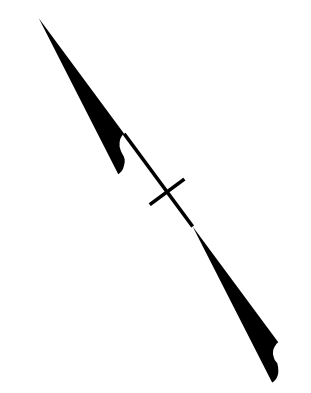
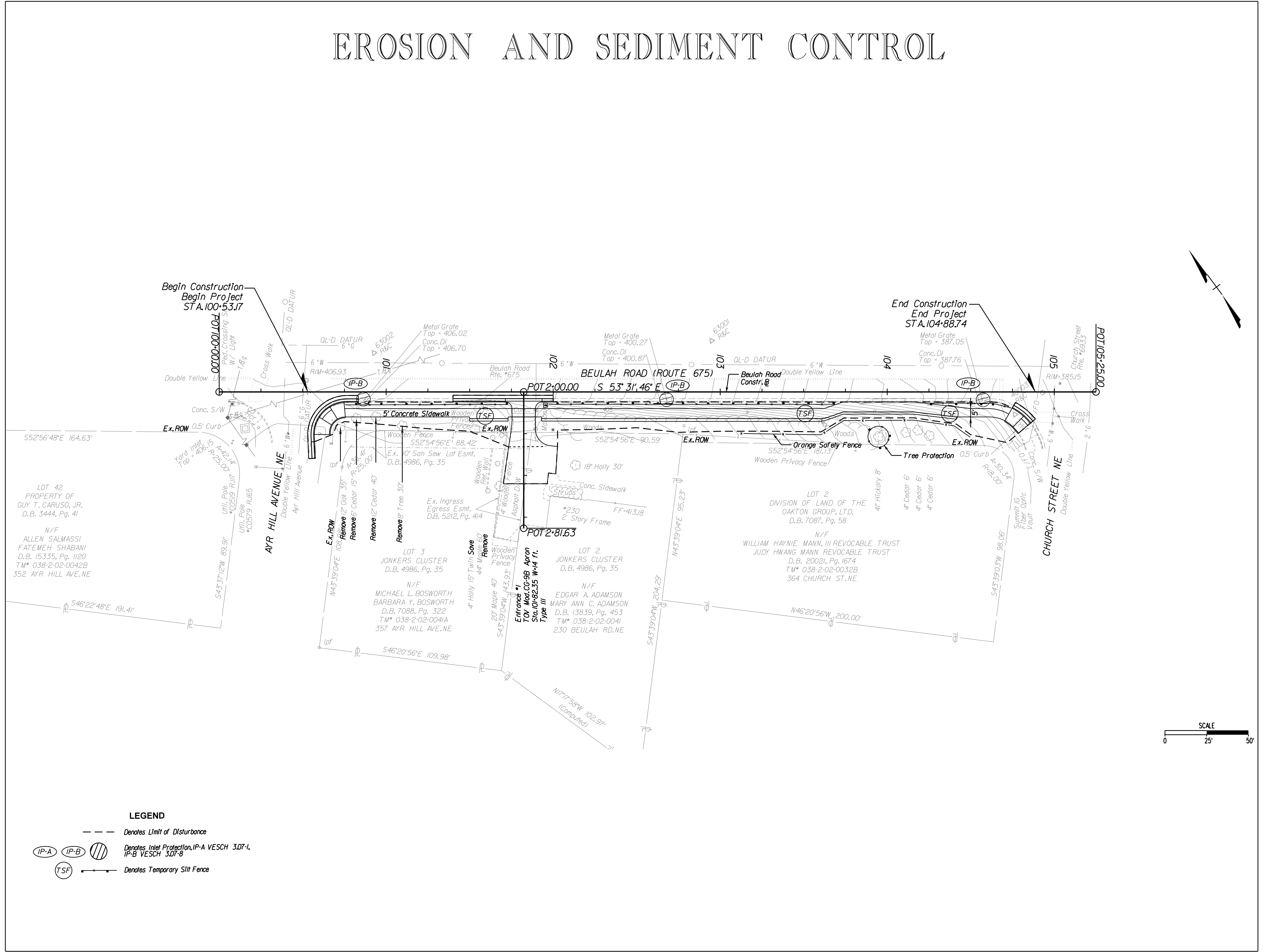
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



- LEGEND**
- Denotes Limit of Disturbance
  - IP-A IP-B Denotes Inlet Protection, IP-A VESCH 3.07-I, IP-B VESCH 3.07-B
  - TSF Denotes Temporary Silt Fence

Whitman Reardon & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



**Whitman, Reardon & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**BEULAH ROAD  
 EROSION AND  
 SEDIMENT CONTROL**

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| SCALE: 1"=25' |              |           |
| DATE: 07/2023 | SHEET: 10(2) |           |
| DES: PS       | DRAWN: JZ    | CHECK: TL |



# EROSION AND SEDIMENT CONTROL



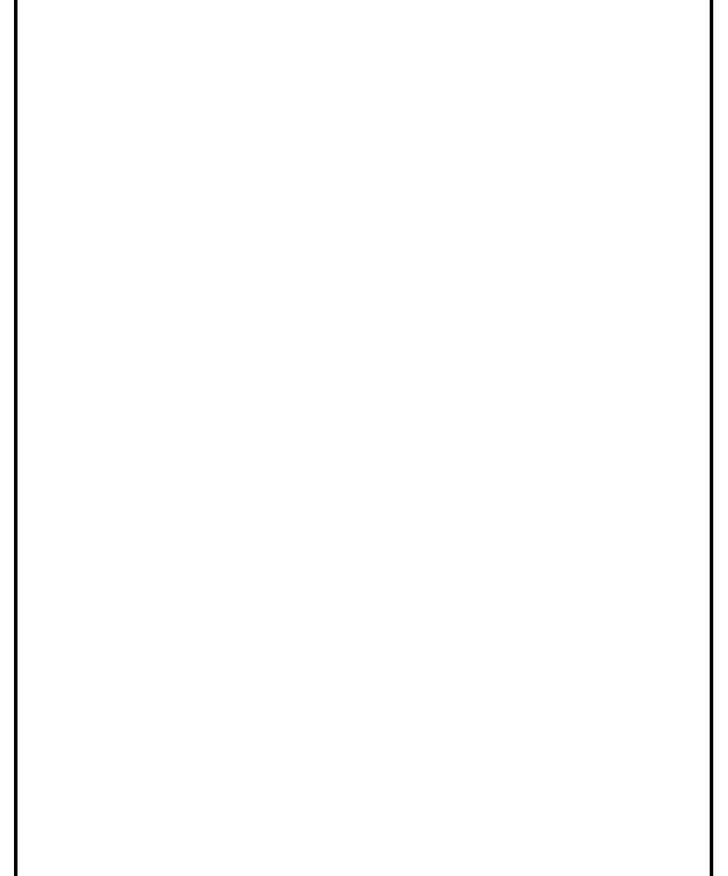
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



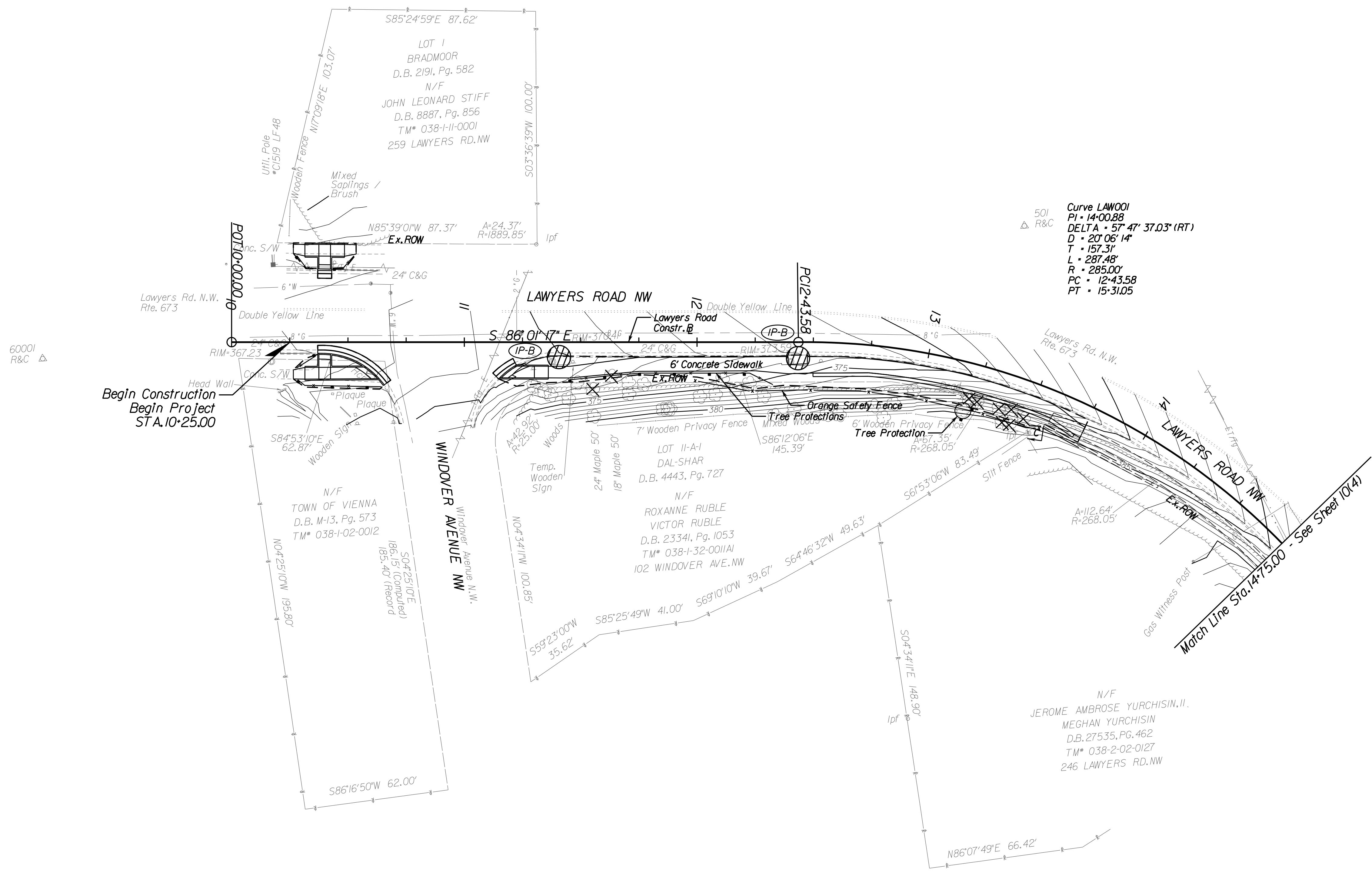
Whitman Requardt & Associates  
 Fairfax, Virginia  
 ROADWAY ENGINEER



**Whitman, Requardt & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**LAWYERS ROAD  
 EROSION AND  
 SEDIMENT CONTROL**

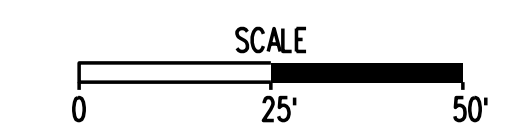
SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 10(3)  
 DES: PS DRAWN: JZ CHECK: TL



501  
 R&C  
 Curve LAW001  
 PI • 14+00.88  
 DELTA • 57° 47' 37.03" (RT)  
 D • 20' 06" 14"  
 T • 157.31'  
 L • 287.48'  
 R • 285.00'  
 PC • 12+43.58  
 PT • 15+31.05

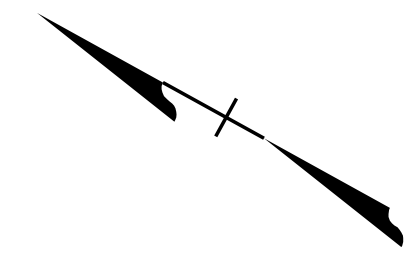
**LEGEND**

- Denotes Limit of Disturbance
- IP-A IP-B Denotes Inlet Protection, IP-A VESCH 3.07-1, IP-B VESCH 3.07-8
- (TSF) Denotes Temporary Silt Fence
- ⊗ Denotes Tree to be removed





# EROSION AND SEDIMENT CONTROL



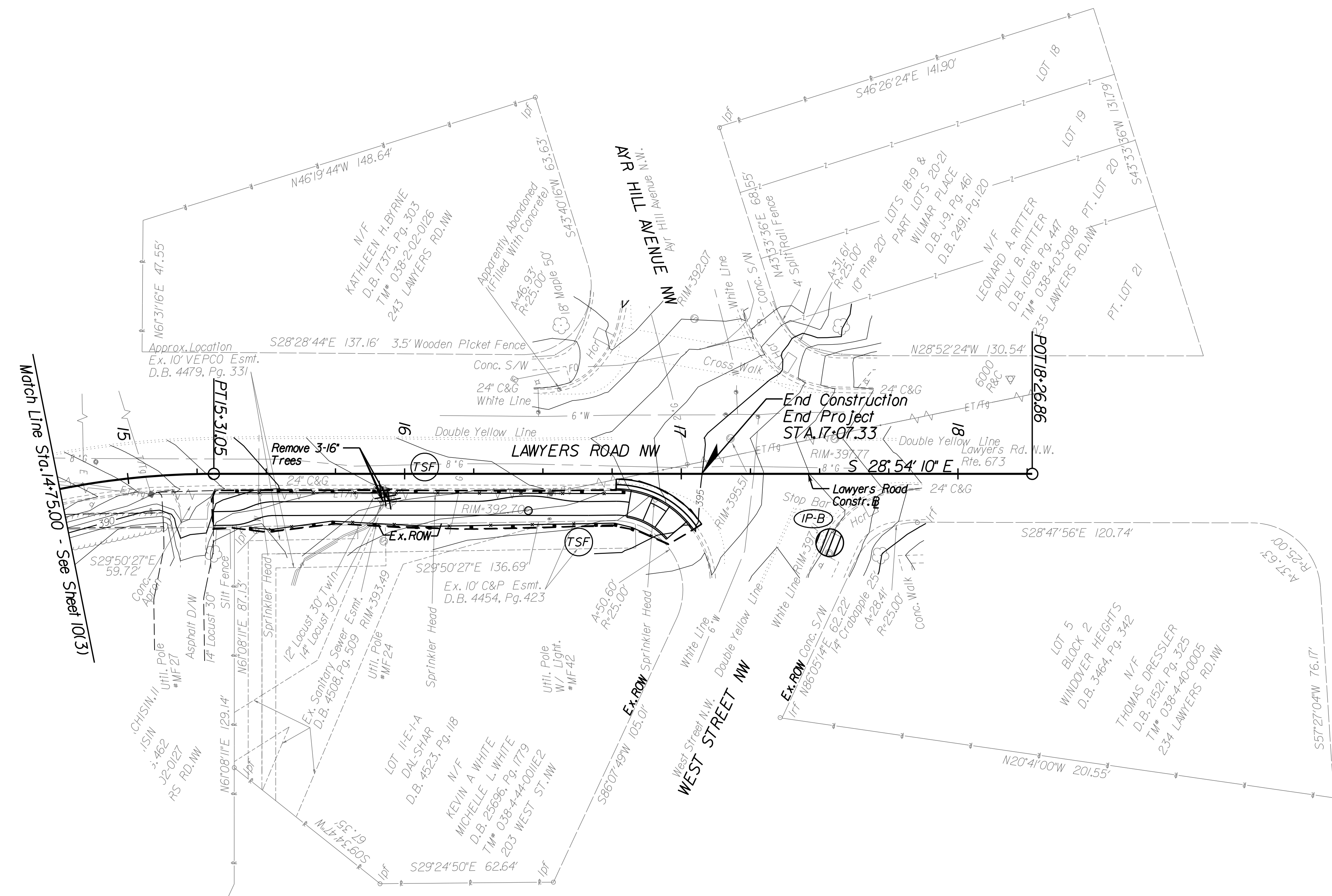
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180

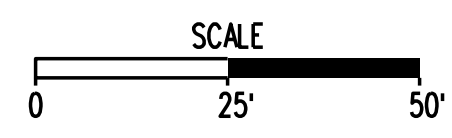


**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



- LEGEND**
- Denotes Limit of Disturbance
  - IP-A IP-B Denotes Inlet Protection, IP-A VESCH 3.07-1, IP-B VESCH 3.07-8
  - TSF Denotes Temporary Silt Fence
  - ⊕ Denotes Tree to be removed



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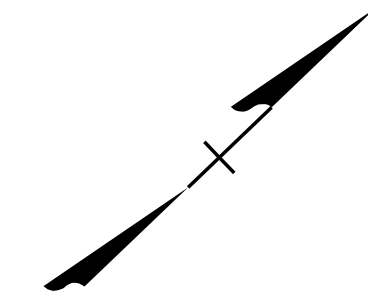
**Whitman, Reardon & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**LAWYERS ROAD  
 EROSION AND  
 SEDIMENT CONTROL**

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| SCALE: 1"=25' |                     |
| DATE: 07/2023 | SHEET: 10(4)        |
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# EROSION AND SEDIMENT CONTROL



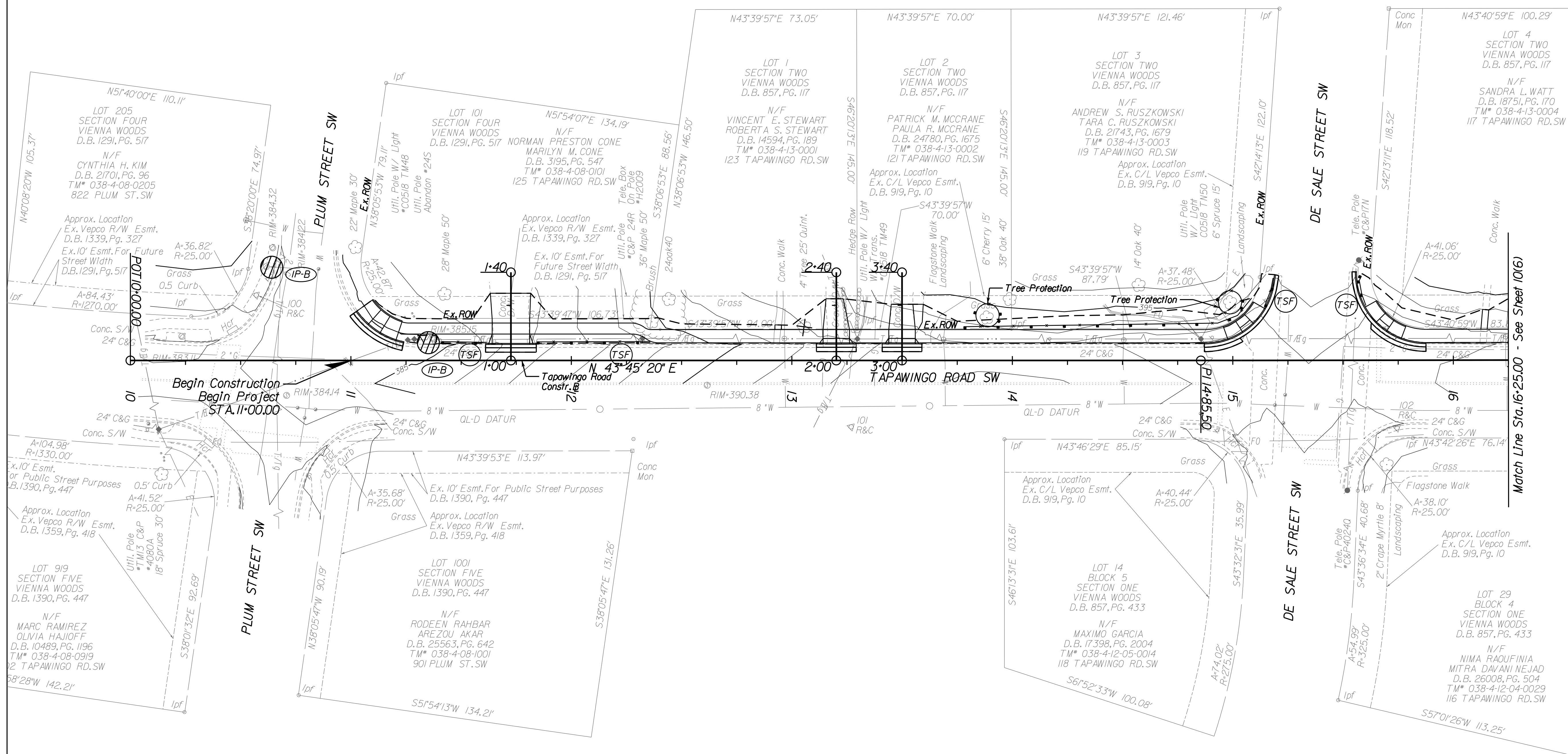
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



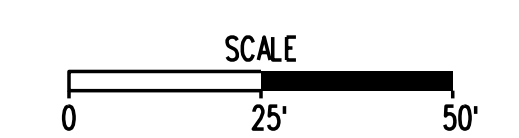
**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



**LEGEND**

- Denotes Limit of Disturbance
- ⊗ IP-A ⊗ IP-B ⊗ Denotes Inlet Protection, IP-A VESCH 3.07-1, IP-B VESCH 3.07-8
- ⊕ Denotes Temporary Silt Fence
- ⊕ Denotes Tree to be removed



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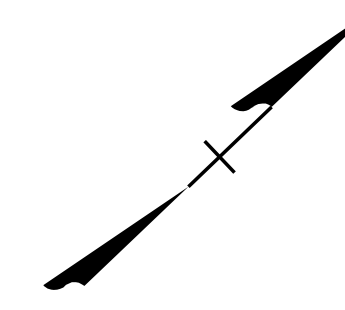
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**TAPAWINGO ROAD  
 EROSION AND  
 SEDIMENT CONTROL**

SCALE: 1"=25'  
 DATE: 07/2023 SHEET: 10(5)  
 DES: JZ DRAWN: JZ CHECK: TL



# EROSION AND SEDIMENT CONTROL



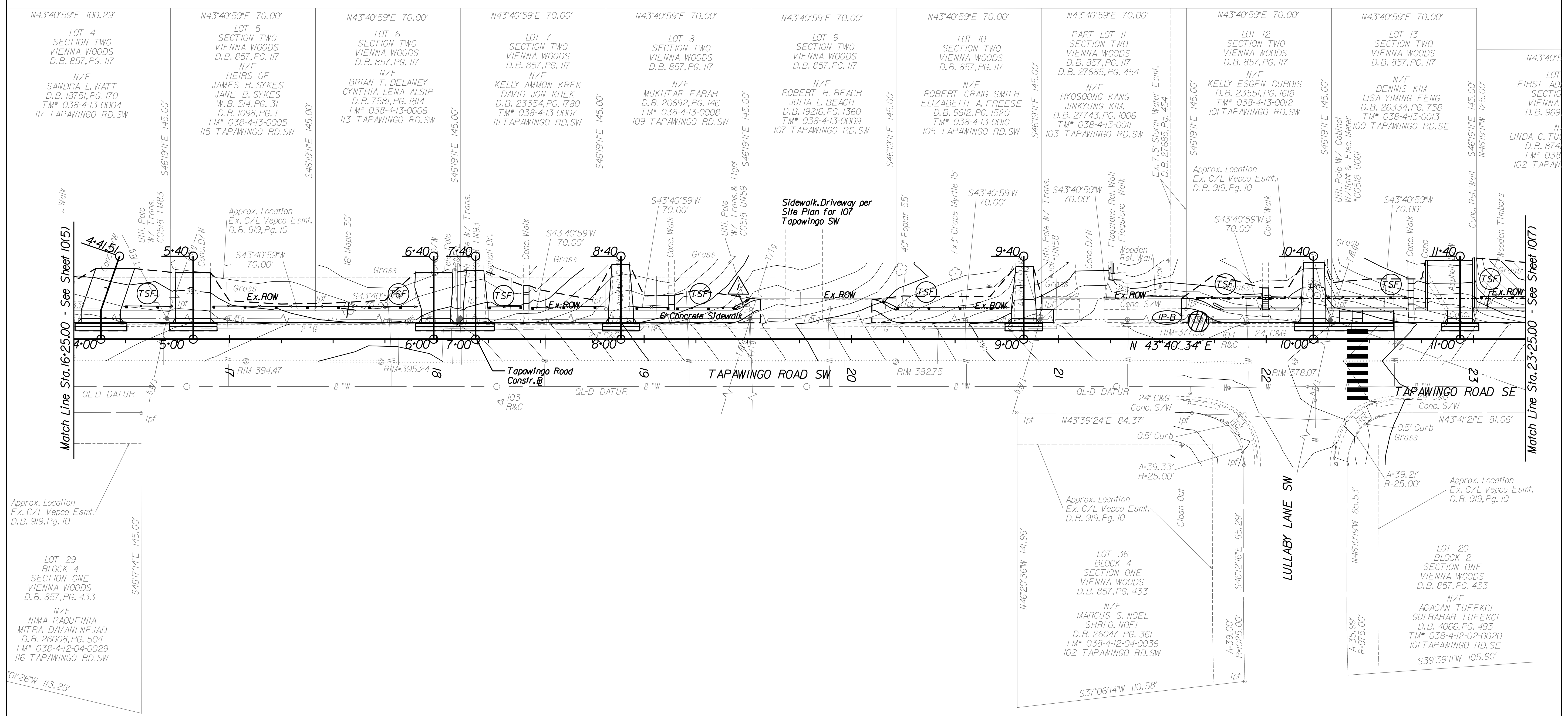
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



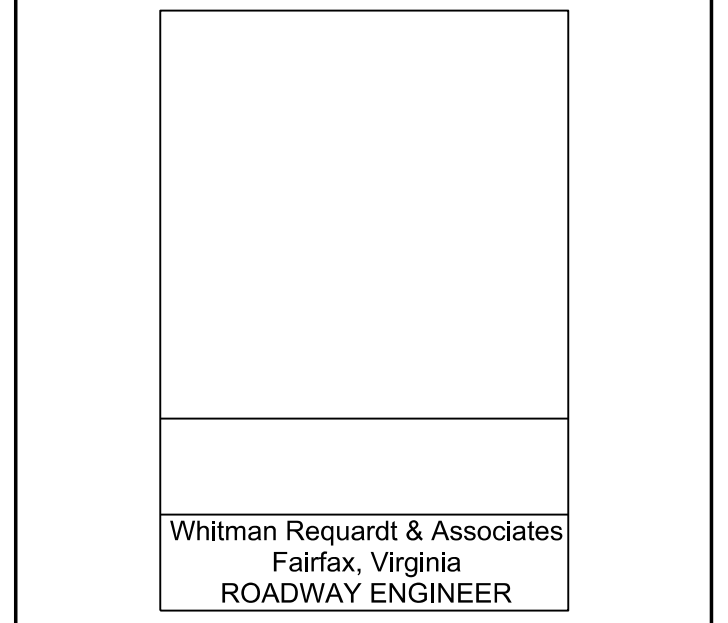
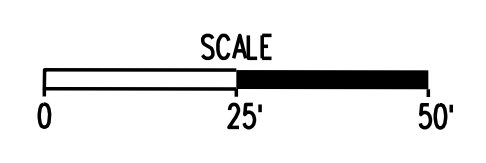
**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



**LEGEND**

|  |  |
|--|--|
|  | Denotes Limit of Disturbance                                   |
|  | Denotes Intel Protection, IP-A VESCH 3.07-1, IP-B VESCH 3.07-8 |
|  | Denotes Temporary Silt Fence                                   |
|  | Denotes Tree to be removed                                     |

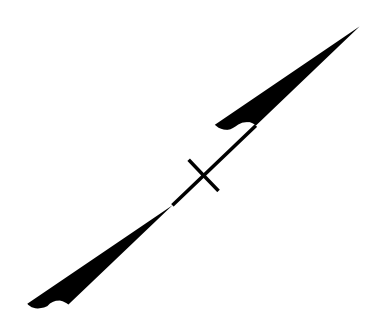


**TAPAWINGO ROAD  
 EROSION AND  
 SEDIMENT CONTROL**

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| SCALE: 1"=25' |              |           |
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| DES: JZ       | DRAWN: JZ    | CHECK: TL |



# EROSION AND SEDIMENT CONTROL



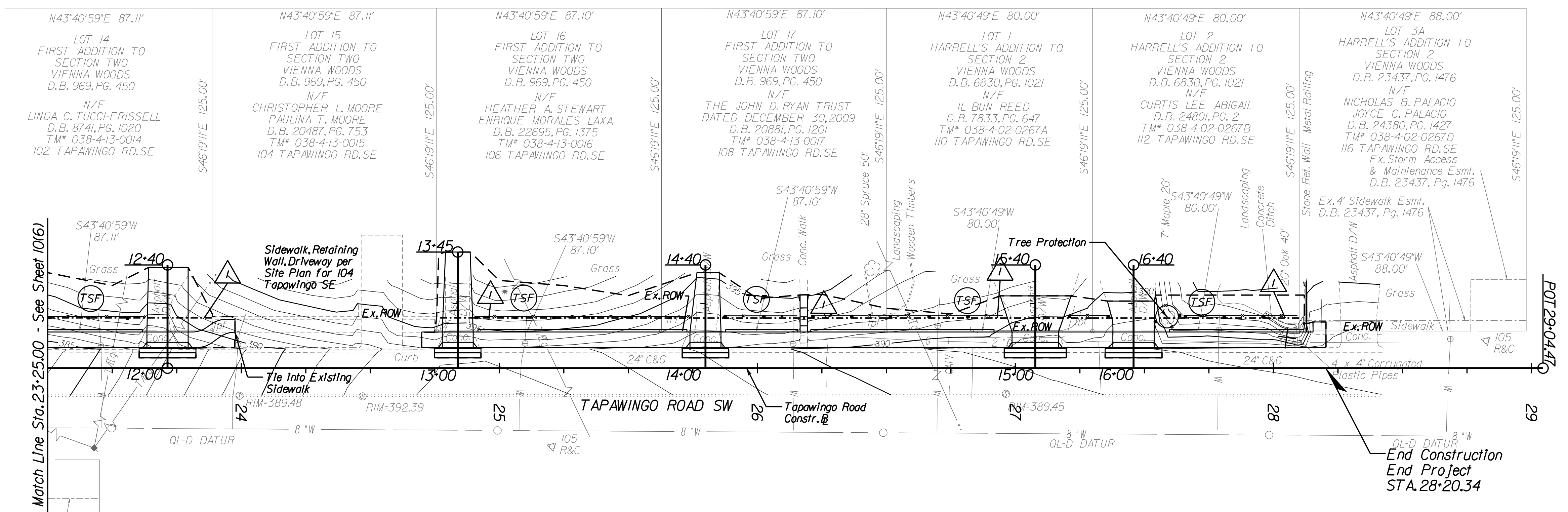
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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

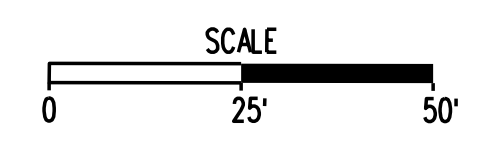


Approx. Location  
 Ex. C/L Veppo Esmt.  
 D.B. 919, Pg. 10

LOT 20  
 BLOCK 2  
 SECTION ONE  
 VIENNA WOODS  
 D.B. 857, PG. 433

N/F  
 ADAM TUFEKCI  
 BAHAR TUFEKCI  
 D.B. 4066, PG. 493  
 T.M. 038-4-12-02-0020  
 TAPAWINGO RD, SE  
 9+39.11'W 105.90'

- LEGEND**
- LOD — Denotes Limit of Disturbance
  - IP-A IP-B Denotes Inlet Protection, IP-A VESCH 3.07-1, IP-B VESCH 3.07-8
  - TSF Denotes Temporary Silt Fence
  - ⊕ Denotes Tree to be removed



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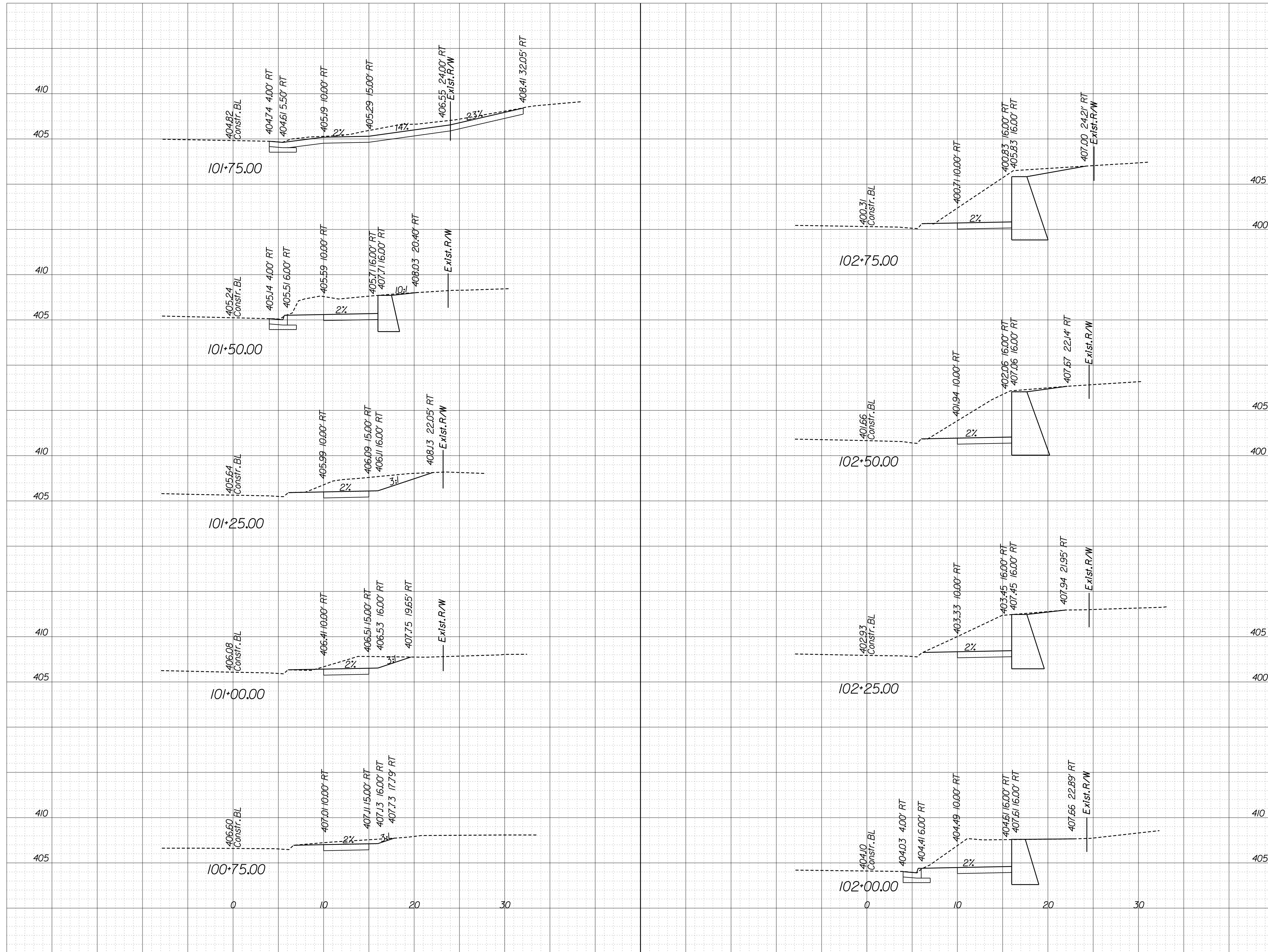
**TAPAWINGO ROAD  
 EROSION AND  
 SEDIMENT CONTROL**

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| SCALE: 1"=25' |              |           |
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# CROSS SECTIONS

SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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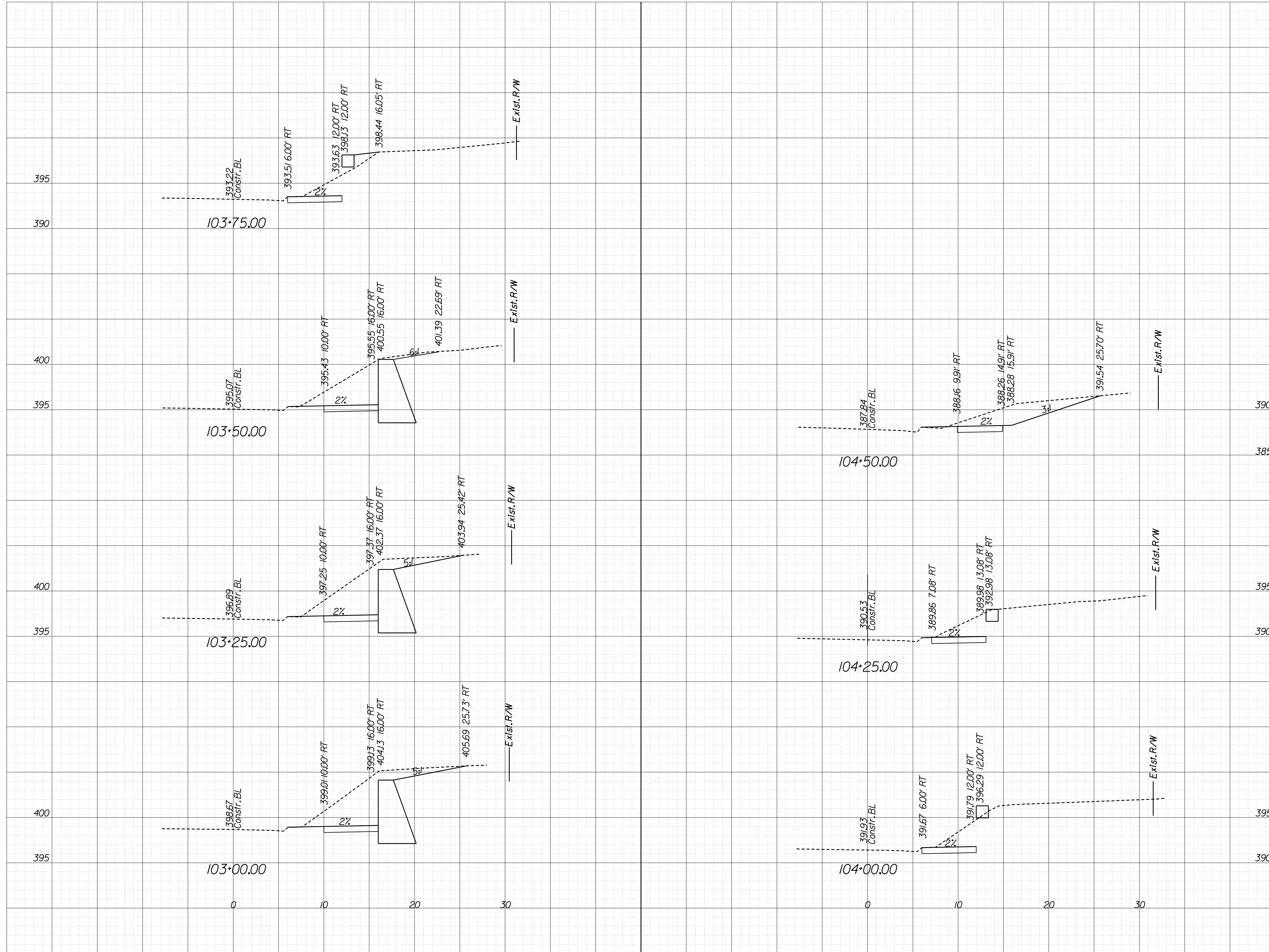
**BEULAH ROAD  
 CROSS SECTIONS  
 100+75.00 TO  
 102+75.00**

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| SCALE: 1"=5'  |            |
| DATE: 07/2023 | SHEET: X-1 |
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# CROSS SECTIONS

SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
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**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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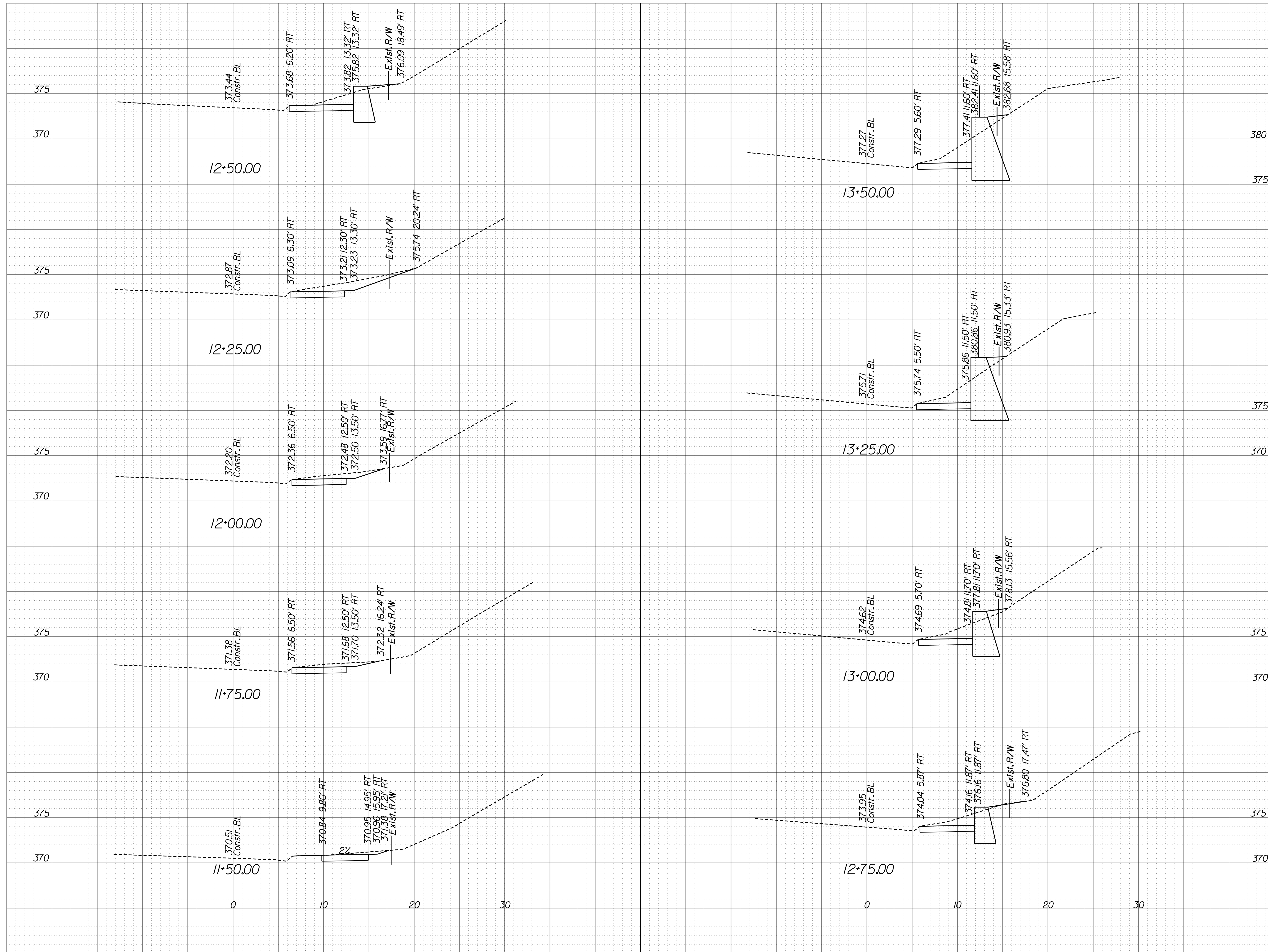
**BEULAH ROAD  
 CROSS SECTIONS  
 103+00.00 TO  
 104+50.00**

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| SCALE: 1"=5'  |                     |
| DATE: 07/2023 | SHEET: X-2          |
| DES: PS       | DRAWN: JZ CHECK: TL |



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SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

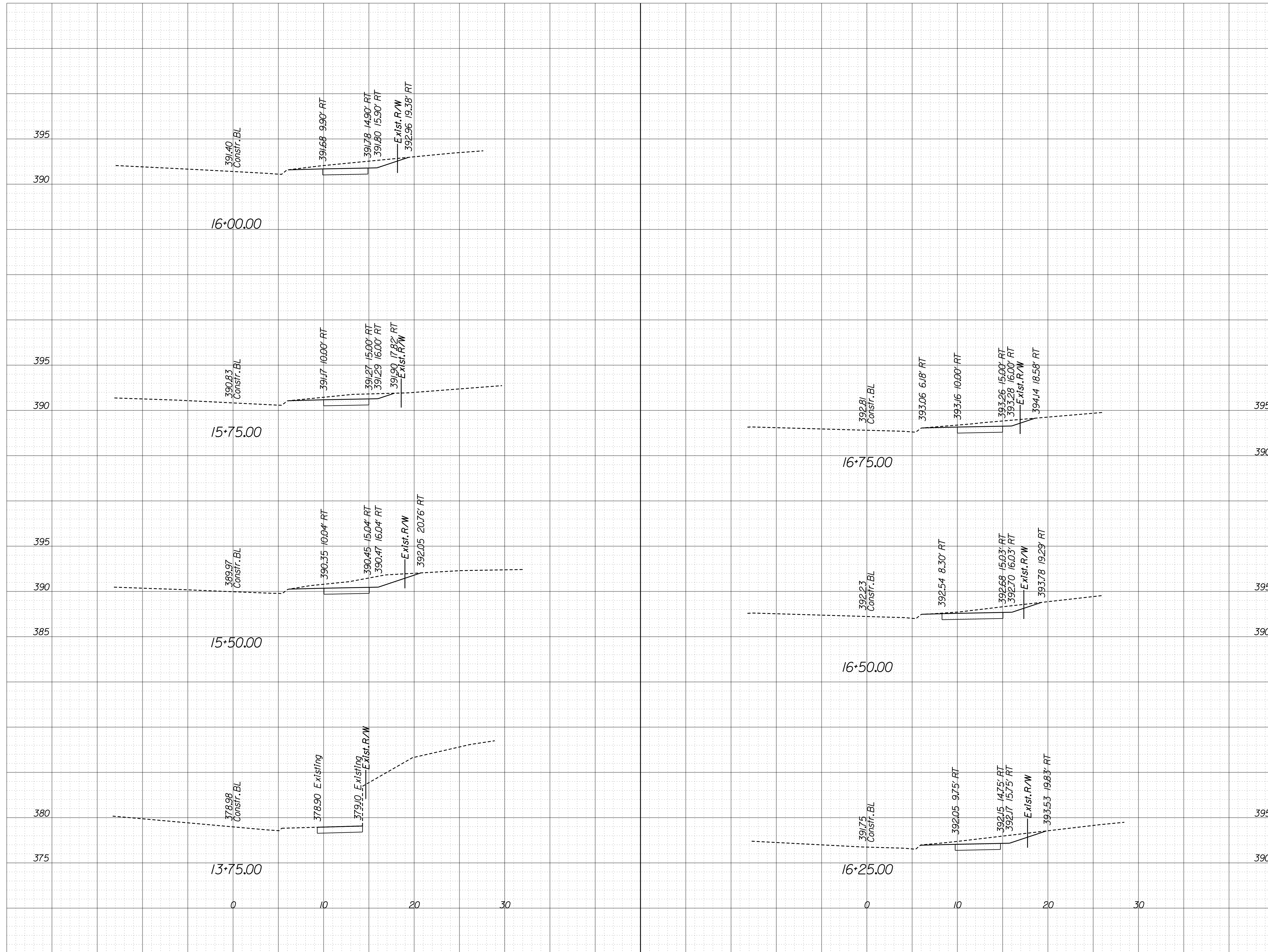
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 CROSS SECTIONS  
 11+50.00 TO  
 13+50.00**

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SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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**TOWN OF VIENNA**  
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 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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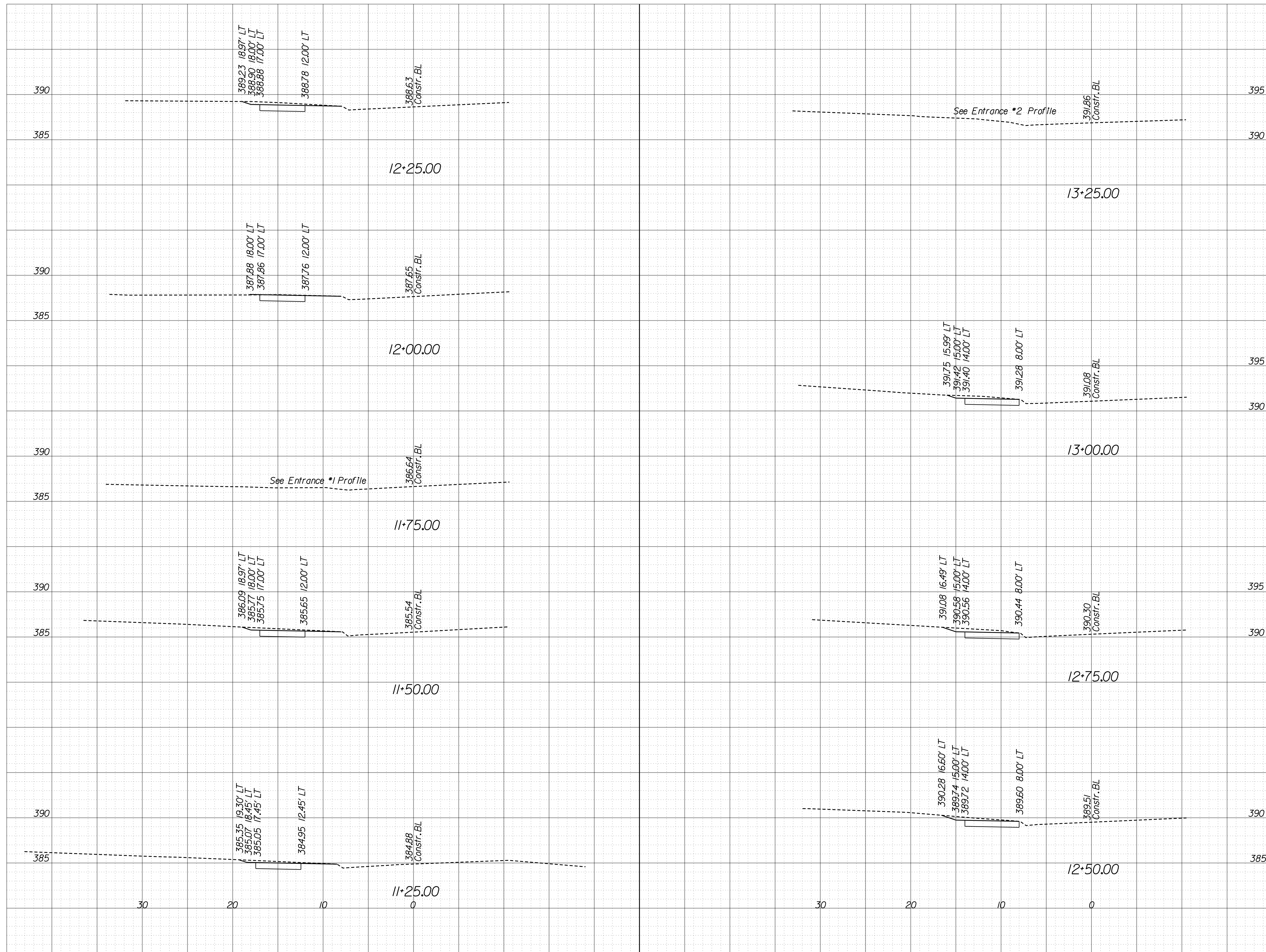
**LAWYERS ROAD NW  
 CROSS SECTIONS  
 13+75.00 TO  
 16+75.00**

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| SCALE:        |                     |
| DATE: 07/2023 | SHEET: X-4          |
| DES: JZ       | DRAWN: PS CHECK: TL |



# CROSS SECTIONS

SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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**TAPAWINGO ROAD  
 CROSS SECTIONS  
 11+25.00 TO  
 13+25.00**

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| SCALE:        |                     |
| DATE: 07/2023 | SHEET: X-5          |
| DES: JZ       | DRAWN: JZ CHECK: TL |



# CROSS SECTIONS

SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
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 VIENNA, VA, 22180

**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
 CROSS SECTIONS  
 13+50.00 TO  
 16+75.00**

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| DES: JZ       | CHECK: TL  |



# CROSS SECTIONS

SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180



**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
 CROSS SECTIONS  
 17+00.00 TO  
 19+25.00**

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| SCALE:        |                     |
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# CROSS SECTIONS

SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
**TOWN OF VIENNA, VA**  
 127 CENTER STREET SOUTH  
 VIENNA, VA, 22180

**TOWN OF VIENNA**  
 since 1890

**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

**Whitman, Reardon & Associates, LLP**  
 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
 CROSS SECTIONS  
 19+50.00 TO  
 23+00.00**

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# CROSS SECTIONS

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**TOWN OF VIENNA**  
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**BEULAH ROAD  
 LAWYERS ROAD NW  
 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**

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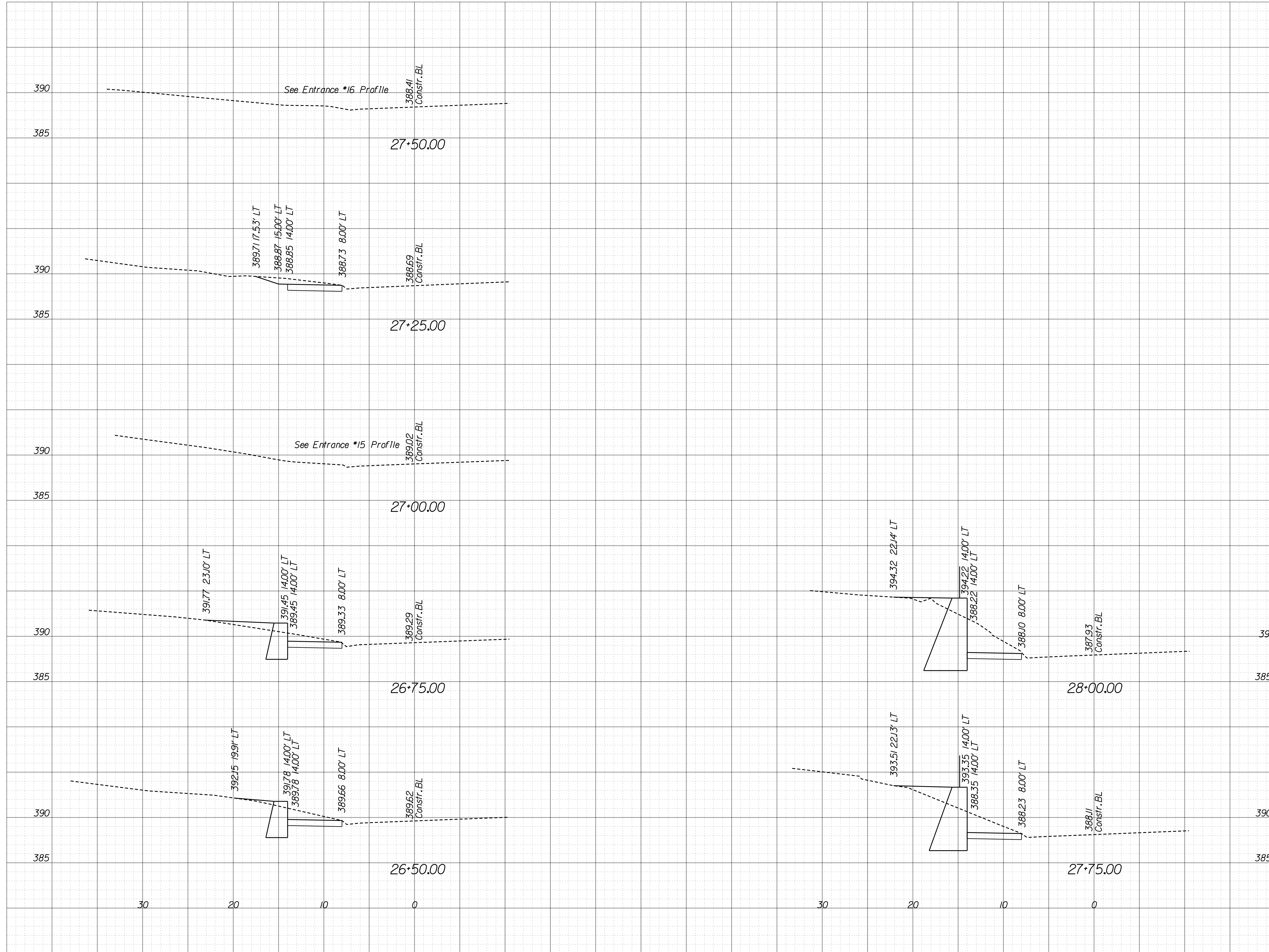
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 CROSS SECTIONS  
 23+25.00 TO  
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| SCALE:        |            |
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# CROSS SECTIONS

SCALE 1 IN. = 5 FT



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CLIENT INFORMATION  
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**TOWN OF VIENNA**  
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 TAPAWINGO ROAD SW  
 SIDEWALK  
 IMPROVEMENTS**



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 12700 Fair Lakes Circle, Suite 300, Fairfax, Virginia 22033

**TAPAWINGO ROAD  
 CROSS SECTIONS  
 26+50.00 TO  
 28+00.00**

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| SCALE:        |             |
| DATE: 07/2023 | SHEET: X-10 |
| DES: JZ       | CHECK: TL   |