

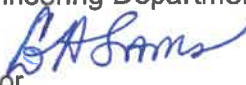


Procurement Department

Mrs. Geri Sams, Director

MAILED: EMAIL/CERTIFIED

TO: All Vendors
Tywana Scott, Quality Assurance Analyst
Hameed Malik, Engineering Department

FROM: Geri A. Sams 
Procurement Director

DATE: January 13, 2023

SUBJ: Responses to Vendor's Questions

BID ITEM: Bid Item # 22-303 Wrightsboro Rd Reconstruction and Pedestrian Improvements (Marks Church Rd to Highland Ave.) for Augusta, GA-Engineering Department

BID OPENING DATE: Wednesday, February 1, 2023 @ 3:00 p.m.

ADDENDUM NO. 3

This Addendum shall form a part of the referenced Bid Item #22-303 Wrightsboro Rd Reconstruction and Pedestrian Improvements (Marks Church Rd to Highland Ave.) and any agreement entered in connection therewith equally as if bound into the original document. Acknowledge receipt of all Addendums on Attachment "B" within the Specifications package.

Responses to Vendor's Questions:

1. Question: There are 21 EA right of way markers shown in the summary of quantities in the plans. There is not a pay item. Will a pay item be added?
Response: A pay item for r/w markers will be added to the quantity spreadsheet.
2. Question: There are water quality inspections and monitoring and sampling shown in the summary of quantities in the plans. There are not pay items. Will pay items be added?
Response: AED will be responsible for Water quality inspections and monitoring.
3. Question: Note #20 in the general notes plan states pavement patching will be as directed. There is not a pay item. Can a pay item for patching be added?
Response: An estimated quantity of pavement patching has been added to the Summary of Quantities. A representative from City of Augusta will be on site to direct and approve the locations where patching is needed. This pay item has been added to the spreadsheet.
4. Question: The recycled asph conc 19 mm is shown to include poly in the typical sections and pay item. The summary of quantities shows the 19 mm without poly. Please clarify which is correct? Is the intent to only have the poly-mod in the topping?
Response: The intent is to have poly-mod in the topping only. The typical sections will be revised to reflect this, and the SOQ pay item has been corrected.
5. Question: The pay items for milling are 4" and variable depth. The typical sections call out 4" and 1.5" depths. Please clarify which is correct?

Room 605 - 535 Telfair Street, Augusta Georgia 30901
(706) 821-2422 - Fax (706) 821-2811

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Response: Milling on Wrightsboro Road is intended to be 4". Side road tie-ins will have 1.5" mill and inlay. The typical sections have been changed to remove 19MM level on side roads and the quantities have been adjusted accordingly.

6. Question: Typical section #5 on dwg 05-0002 shows 1.5" milling with putting back 2.5" 19 mm and 1.5" 12.5 mm. Should these roads get 1.5" milling and 1.5" 12.5 mm instead? If the typical is shown correctly, please clarify how the contractor should install the binder and topping course? Will the binder and topping courses be above the existing gutter lines? If the intent is to put back 4" of asphalt, please revise the typical section to be 4" milling.

Response: Typical section has been revised to remove the 19MM layer.

7. Question: What will be the finish type for the faces on the proposed concrete walls?

Response: Walls that have exposed face toward the road will be Ashlar Stone Architectural Finish or other as preferred by the city. Walls with exposed face toward private property will have smooth, flat finish unless other is negotiated as part of r/w discussions. A detail has been added to the typical sections.

8. Question: Where is the leveling intended to be used?

Response: Leveling shall only be used per discretion of AED project manager.

9. Question: What is the time frame traffic is allowed to run on milled surfaces?

Response: Assume no longer than 72 hours.

10. Question: What all is to be included for the as-built? Is it required for this project? Will a pay item be added?

Response: It will be covered under grading complete.

11. Question: Please clarify that this bid is a straight bid build with the project being awarded to the lowest bidder?

Response: Yes, it will be awarded to lowest responsible bidder.

12. Question: What are the allowable work hours/days?

Response: Refer General Conditions GC-68.

13. Question: Will all existing storm pipe be retained? If removal is required, please clarify the locations of the pipe removal.

Response: All existing storm pipe will be retained. General notes will be revised to clarify.

14. Question: There is a pay item for 18" storm pipe. Please clarify the proposed location of this pipe in the plans?

Response: 18" storm pipe is no longer needed on project. The pay item has been removed.

15. Question: Please provide landscaping plans

Response: Landscaping plans are provided in the rev 1 submittal.

16. Question: Please provide irrigation plans

Response: Limits of irrigation are shown in the landscape plans.

17. Question: Plan Sheet 13-0002 requires 30" Header Curb. Please verify if 30" Header Curb is the proper application.

Response: Label has been revised to show "6" Header Curb"

18. Question: Please add a pay item for Curb Cut Wheelchair Ramps to account for removing & replacing the curb & gutter.

Response: Per the notes on GDOT Det A-3, no additional payment is made for removing curb where necessary for ramp construction. Ramps have been included in the quantity for sidewalk.

19. Question: Please provide locations of 18" RCP H10-15.

Response: No pipe is proposed on this project. This pay item has been removed.

20. Question: Removal of existing light poles by others. Please confirm.

Response: Georgia Power is the owner of existing light poles and cobra head fixtures. Georgia Power will remove light poles and fixtures indicated for removal on the plans. A “by others” note has been added to all of these locations.

21. Question: Because of the duration of the project can the GDOT AC Index provision be used?

Response: Assume No.

22. Question: GC-109 requires as-built drawings except in the case of a resurfacing project. Will this project require as-built drawings?

Response: Assume, yes. Refer General Conditions As- Built Checklist.

23. Question: Will temporary pedestrian facilities be required?

Response: Assume Yes.

24. Question: Who keeps possession of the changeable message signs upon completion of the project?

Response: Contractor is responsible for all the signs used during construction for all traffic controls.

25. Question: What are the paving limits for driveways & sideroads if not shown?

Response: All driveway and sideroad limits are shown on plans.

26. Question: Between Sta. 201+91 & 221+60 Lt. the plans show 26 new asphalt driveways being installed where there is currently concrete valley gutter. Please confirm/clarify the proposed construction for these driveways.

Response: The driveway past the end of the A-2 valley gutter is designated as asphalt as needed to tie down. On the driveway profiles, A-2 concrete valley gutter is specified (with curb) and a pay item was included (441-4030) for this valley gutter.



27. Question: Plan Sheet 05-0002 has typical sections for several side roads that require {A} 165 lb. 12.5mm (1.5”) and {B} 275 lb. 19mm (2.5”) and {D} Mill Asphalt 1.5”. If this is performed the road surface will be raised 2.5” and the existing curb & gutter will either have to be inlaid or removed and replaced. Please confirm/clarify the proposed construction for these sideroads.

Response: Side Road tie-ins will have 1.5” mill and inlay. The typical sections have been changed to show no 19MM level of side roads and the quantities were adjusted accordingly.

28. Question: Heirs St. currently has curb & gutter; however, the plans show it to be asphalt. Please confirm/clarify the proposed construction.

Response: In the existing condition, Hires Street appears to be a driveway and is called to have A-2 valley gutter to be replaced as needed. The existing curb will not be disturbed. This has been clarified on plans.

29. Question: Item #647-1000 Traffic Signal Installation is 5 EA. There will be different prices for all 5. Typically, this item is 1 LS for each signal installation. Please revise this pay item.
Response: Quantities have been updated to show LS pay item for each signal.
30. Question: Item #639-3014 steel strain pole TP IV 16 EA will have different prices for all 16 since there are different length arms and number of arms. Please, revise pay item to be broken out per arm length/number of arms like is typically done on all other signal projects.
Response: The pole quantities were broken out in the plan set. The quantity spreadsheet has been updated to match.
31. Question: Can the City provide a pay item for each different sized mast arm instead of averaging them? The cost of each mast arm ranges widely depending on length of arm/single or tandem arms. The price per mast arm would be much better represented in case of a change in length of arm or single to tandem.
Response: Quantities have been updated to show LS pay item for each signal.
32. Question: We are counting 18 illuminated street name signs on the project whereas the proposed quantity is 21. I believe intersection #3 has 3 but the list of materials shows 6. I think this is where the mistake is.
Response: The quantity of signs has been revised to be 12 in plans and quantities.
33. Question: We are counting 389 type A's (Pole & Fixture) and 16 type B's (Fixture mounted on mast arm). The proposed quantity is 411 and does not differentiate between the two types of installations. Can this be revised?
Response: The type A poles for lighting are included in the lighting quantities. The type B's are included in the pay items with the strain poles.
34. Question: Item #766-7020 Irrigation has a unit of SF and qty of 76292. Should this be 1 LS instead? Also there are no irrigation plans provided in the set of design plans. Can irrigation plans be provided?
Response: Please see revised Bid Proposal and Plans attached to this Addendum 3.

Please acknowledge addendum in your submittal
END OF ADDENDUM

Attachments: Revised Bid Proposal (6 Pages)
Revised Plans (90 Pages)

**AUGUSTA ENGINEERING DEPARTMENT
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
(MARKS CHURCH RD TO HIGHLAND AVE)**

SECTION 3: BID PROPOSAL

Date: _____

Gentlemen:

In compliance with your invitation for bids dated _____, 2023, the undersigned hereby proposed to furnish all labor, equipment, and materials, and to perform all work for the installation of roadway improvements, and appurtenances referred to herein as:

**WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN
IMPROVEMENTS (MARKS CHURCH RD TO HIGHLAND AVE)**

In strict accordance with the Contract Documents and in consideration of the amounts shown on the Bid Schedule attached hereto and totaling:

_____ DOLLARS

(\$ _____)

The undersigned hereby agrees that, upon written acceptance of this bid, he will within 10 days of receipt of such notice execute a formal contract agreement with the OWNER, and that he will provide the bond or guarantees required by the Contract Documents.

The undersigned hereby agrees that, if awarded the contract, he will commence the work within 10 calendar days after the date of written notice to proceed, and that he will complete all work within 540 calendar days.

The undersigned acknowledges receipt of the following addenda:

Addendum Number:

Addendum Date:

Respectfully submitted:

(Name of the Firm)

(Business Address)

By: _____

Title: _____

**AUGUSTA ENGINEERING DEPARTMENT
 WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
 (MARKS CHURCH RD TO HIGHLAND AVE)**

ROADWAY					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
000-1000	Force Account	LS	LS	\$ 500,000	\$ 500,000
150-1000	TRAFFIC CONTROL -	LS	LUMP		
210-0100	GRADING COMPLETE -	LS	LUMP		
310-1101	GR AGGR BASE CRS, INCL MATL	TN	387		
318-3000	AGGR SURF CRS	TN	2668		
402-1801	RECYCLED ASPH CONCPATCHING, INCL BITUM MATL	TN	1665		
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	100		
402-4510	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	TN	6458		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	10334		
413-0750	TACK COAT	GL	9215		
432-0216	MILL ASPH CONC PVMT, 4 IN DEPTH	SY	77285		
432-0206	MILL ASPH CONC PVMT, 1 ½ IN DEPTH	SY	667		
441-0016	DRIVEWAY CONCRETE, 6 IN TK	SY	14		
441-0018	DRIVEWAY CONCRETE, 8 IN TK	SY	2168		
441-0104	CONC SIDEWALK, 4 IN	SY	10697		
441-0108	CONC SIDEWALK, 8 IN	SY	1985		
441-0748	CONCRETE MEDIAN, 6 IN	SY	53		
441-4040	CONC VALLEY GUTTER WITH CURB, 6 IN	SY	378		
441-4050	CONC VALLEY GUTTER WITH CURB, 8 IN	SY	456		
441-5002	CONCRETE HEADER CURB, 6 IN, TP 2	LF	605		
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	678		
444-1000	SAWED JOINTS IN EXIST PAVEMENTS - PCC	LF	340		
500-3107	CLASS A CONCRETE, RETAINING WALL	CY	42		
500-3201	CLASS B CONCRETE, RETAINING WALL	CY	55		
500-9999	CLASS B CONC, BASE OR PVMT WIDENING	CY	12		

**AUGUSTA ENGINEERING DEPARTMENT
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
(MARKS CHURCH RD TO HIGHLAND AVE)**

511-1000	BAR REINF STEEL	LB	809		
515-2020	GALV STEEL PIPE HANDRAIL, 2 IN, ROUND	LF	96		
530-0105	WATERPROOFING	SY	14		
611-3010	RECONSTR DROP INLET, GROUP 1	EA	1		
611-8000	ADJUST CATCH BASIN TO GRADE	EA	113		
611-8050	ADJUST MANHOLE TO GRADE	EA	12		
632-0003	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	EA	4		
634-1200	RIGHT OF WAY MARKERS	EA	21		
EROSION CONTROL					
700-7000	AGRICULTURAL LIME	TN	6		
700-8000	FERTILIZER MIXED GRADE	TN	3		
700-8100	FERTILIZER NITROGEN CONTENT	LB	100		
716-2000	EROSION CONTROL MATS, SLOPES	SY	2500		
TEMPORARY EROSION CONTROL					
163-0232	TEMPORARY GRASSING	AC	2		
163-0240	MULCH	TN	77		
163-0301	CONSTRUCT & REMOVE CONSTRUCTION EXITS	EA	1		
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	134		
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	LF	7200		
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	1		
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	134		
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA (PER EACH)	EA	1		
167-1500	WATER QUALITY INSPECTIONS	MO	18		
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	1		
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	14300		
SIGNING AND MARKING					
611-5551	RESET SIGN	EA	51		
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	22		
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	197		

**AUGUSTA ENGINEERING DEPARTMENT
 WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
 (MARKS CHURCH RD TO HIGHLAND AVE)**

636-2070	GALV STEEL POSTS, TP 7	LF	141		
636-2080	GALV STEEL POSTS, TP 8	LF	131		
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	95		
653-0130	THERMOPLASTIC PVMT MARKING, ARROW, TP 3	EA	2		
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	25421		
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	21452		
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	727		
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	16356		
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	18609		
653-3502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	GLF	15576		
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	300		
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	110		
654-1001	RAISED PVMT MARKERS TP 1	EA	1568		
654-1003	RAISED PVMT MARKERS TP 3	EA	2512		
SIGNALS					
647-1000	TRAFFIC SIGNAL INSTALLATION NO -	EA	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO -	EA	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO -	EA	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO -	EA	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO -	EA	1		
615-1100	DIRECTIONAL BORE PIPE -	LF	264		
615-1100	DIRECTIONAL BORE PIPE -	LF	235		
615-1100	DIRECTIONAL BORE PIPE -	LF	159		
615-1100	DIRECTIONAL BORE PIPE -	LF	273		
615-1100	DIRECTIONAL BORE PIPE -	LF	272		
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	1056		
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	1000		
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	636		
682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	1110		

**AUGUSTA ENGINEERING DEPARTMENT
 WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
 (MARKS CHURCH RD TO HIGHLAND AVE)**

682-6222	CONDUIT, NONMETL, TP 2, 2 IN	LF	1238		
639-3014	STEEL STRAIN POLE, TP IV - WITH 35 FT MAST ARM	EA	3		
639-3014	STEEL STRAIN POLE, TP IV - WITH 40 FT MAST ARM	EA	1		
639-3014	STEEL STRAIN POLE, TP IV - WITH 45 FT MAST ARM	EA	2		
639-3014	STEEL STRAIN POLE, TP IV - WITH 50 FT MAST ARM	EA	2		
639-3014	STEEL STRAIN POLE, TP IV - WITH 55 FT MAST ARM	EA	6		
639-3014	STEEL STRAIN POLE, TP IV - WITH 35 FT & 55 FT MAST ARM	EA	1		
639-3014	STEEL STRAIN POLE, TP IV - WITH 55 FT & 65 FT MAST ARM	EA	1		
939-5010	ELECTRICAL POWER SERVICE ASSEMBLY, AERIAL SERVICE POINT	EA	5		
937-6050	INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	EA	5		
937-6100	OUTPUT EXPANSION MODULE, TYPE A	EA	5		
936-1010	CCTV SYSTEM, TYPE H	EA	5		
647-3000	INTERNALLY ILLUMINATED STREET SIGN	EA	12		
647-3100	INTERNALLY ILLUMINATED STREET NAME SIGN CONTROL ASSEMBLY	EA	12		
				SUB-TOTAL ROADWAY:	
LIGHTING					
680-4110	LIGHTING (LED LUMINAIRE & POLE)	EA	389		
999-0014	LUMINAIRE AND POLE INSTALLATION	EA	389		
LANDSCAPE					
999-2015	PERSIAN PARROTIA	EA	4		
702-1081	PRINCETON AMERICAN ELM	EA	4		
702-0006	ROSE CREEK ABELIA	EA	82		
999-2015	CINNAMON GIRL DISTYLUM	EA	373		
702-0280	AUGUST BEAUTY GARDENIA	EA	28		
999-2015	DWARF BURFORD HOLLY (TREE FORM)	EA	23		
702-0610	JAZZ HANDS DWARF PINK LOROPETALUM	EA	706		
999-2015	ADAGIO EULALIA GRASS	EA	238		
702-0719	HEAVY METAL SWITCH GRASS	EA	504		
702-0981	LEMON DRIFT ROSE	EA	296		

**AUGUSTA ENGINEERING DEPARTMENT
 WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
 (MARKS CHURCH RD TO HIGHLAND AVE)**

702-0063	ORANGE DAYLILY	EA	471		
702-0330	STELLA DE ORO DAYLILY	EA	1408		
702-0727	CREEPING PHLOX	EA	321		
700-9300	SOD (HYBRID BERMUDA SOD)	SY	2691		
700-6910	PERMANENT GRASSING (HYBRID BERMUDA SEED)	AC	1.36		
766-7020	IRRIGATION	SF	65817		
702-9025	LANDSCAPING MULCH	SY	3483		
708-1000	PLANTING SOIL MIX	CY	777		
				WTD AVG TOTAL:	

Bid Proposal:

GRAND TOTAL

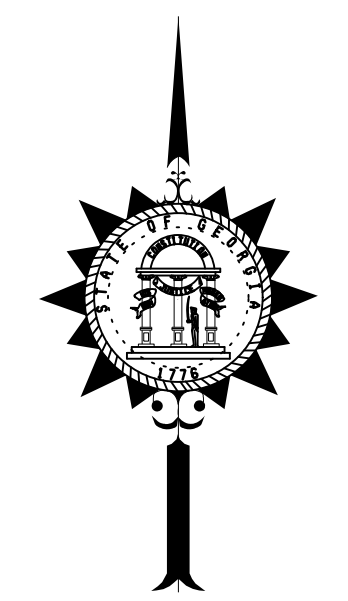
----- DOLLARS

***GRADING COMPLETE:** *Shall include any work without a specific pay item such as:* removal and disposal of all miscellaneous roadway items, utility items, and drainage items (i.e. demolition items). Additional items shall be included in the item of grading complete, unless otherwise established as separate contract items, including, but not limited to: removal/demolition of pavement, removal/demolition of concrete sidewalks and driveways / valley gutter, removal of curb and gutter, removal of abandoned drainage structures, removal of street signs, and any other miscellaneous removal items whether shown on the plans or not. The items of grading complete shall also include other miscellaneous items of construction not otherwise shown as a separate pay item such as fine grading, general clearing, cut and fill, constructing shoulder and subgrade, finish grading, construction layout, the hauling and disposal of undesirable or surplus materials, removing and/or resetting mailboxes, removing and/or resetting gates and fences, removing and/or resetting irrigation sprinkler heads, bonds and insurance etc. Remove/reconnect water services, reconnect sanitary services, remove/reset signs (type varies), remove/reset water sprinkler systems(complete), remove/reset water valves(size varies), remove/reset yard lamps (type varies) shall be included in grading complete where no separate bid item is established.

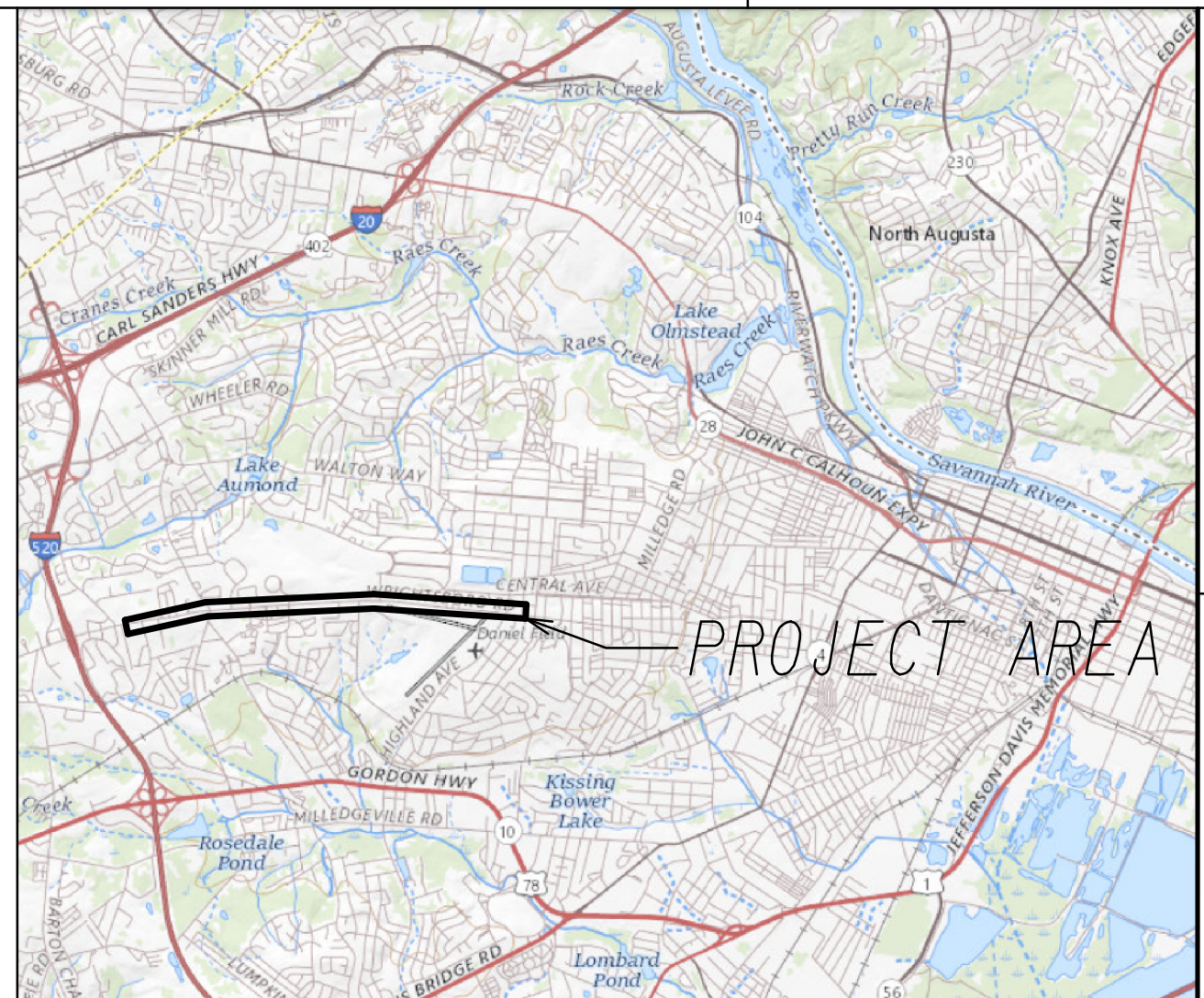
****LS (LUMP SUM)** – For all Lump Sum items, attach itemized break of lump sum amount on separate sheet

CITY OF AUGUSTA ENGINEERING DEPARTMENT STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH ROAD TO HIGHLAND AVENUE RICHMOND COUNTY (245)



NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



LOCATION SKETCH
N.T.S.

DESIGN DATA:
 TRAFFIC A.D.T.: 29,875 (2024)
 TRAFFIC A.D.T.: 33,025 (2044)
 TRAFFIC D.H.V.: 1,376 (2044)
 24 HR. TRUCKS %: 2.5%
 SPEED DESIGN: 45 MPH
 SPEED DESIGN (SIDE ROADS): 35MPH

FEDERAL ROUTE * N/A
 STATE ROUTE * N/A



Drawing Copyright © 2020

6745 Sugarloaf Pkwy, Suite 100
 Duluth, GA 30097
 770.447.8999 • www.chacompanies.com

PLANS PREPARED BY:

DESIGN



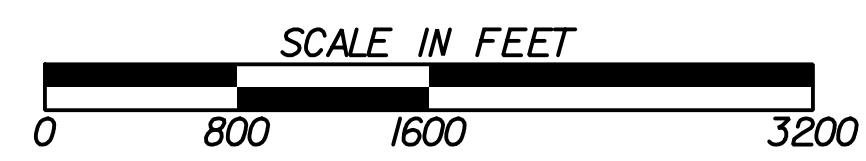
THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

BEGIN PROJECT STA. 104+50.00
 N: 1261483.56 FT
 E: 683375.75 FT

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

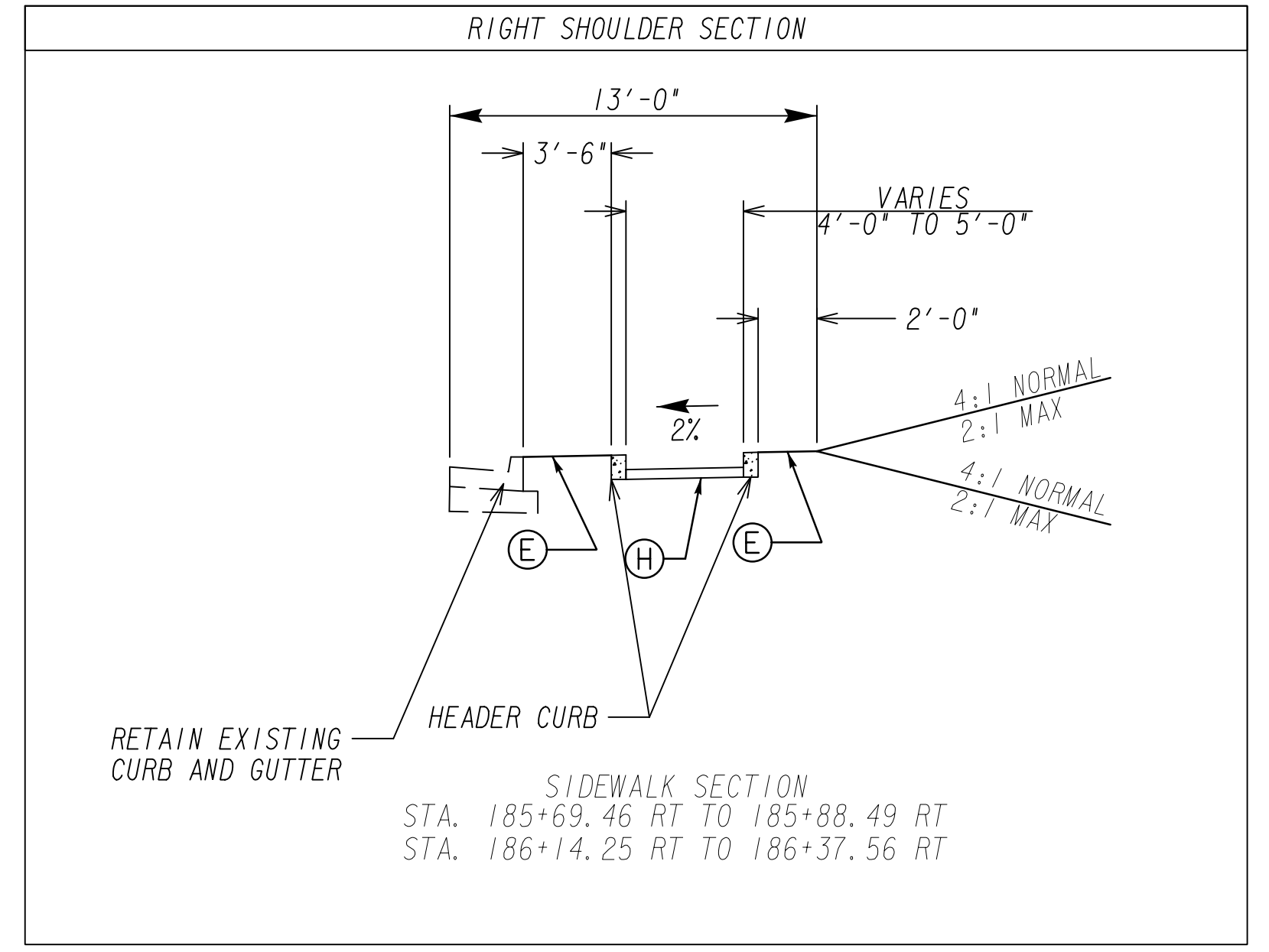
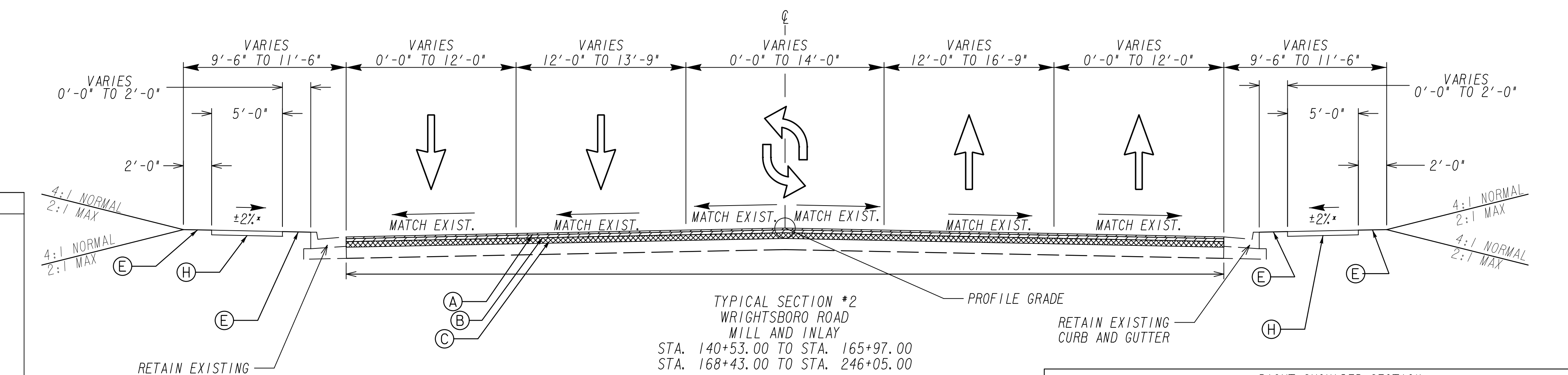
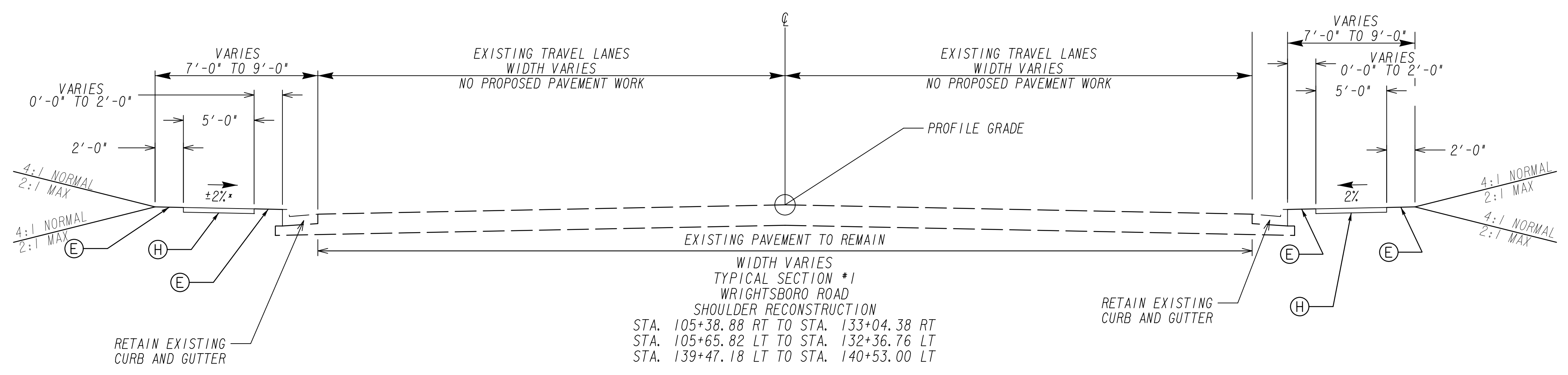
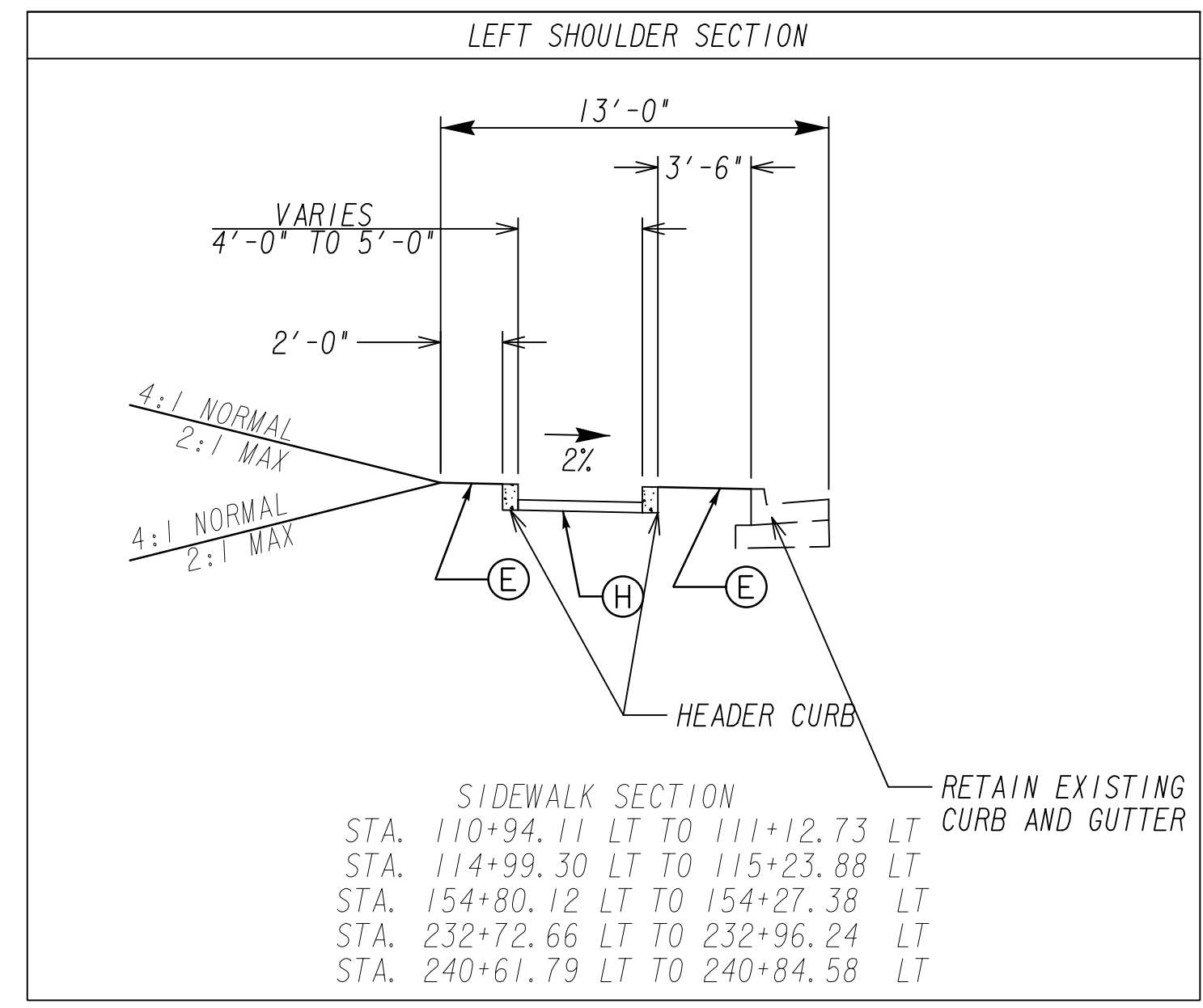
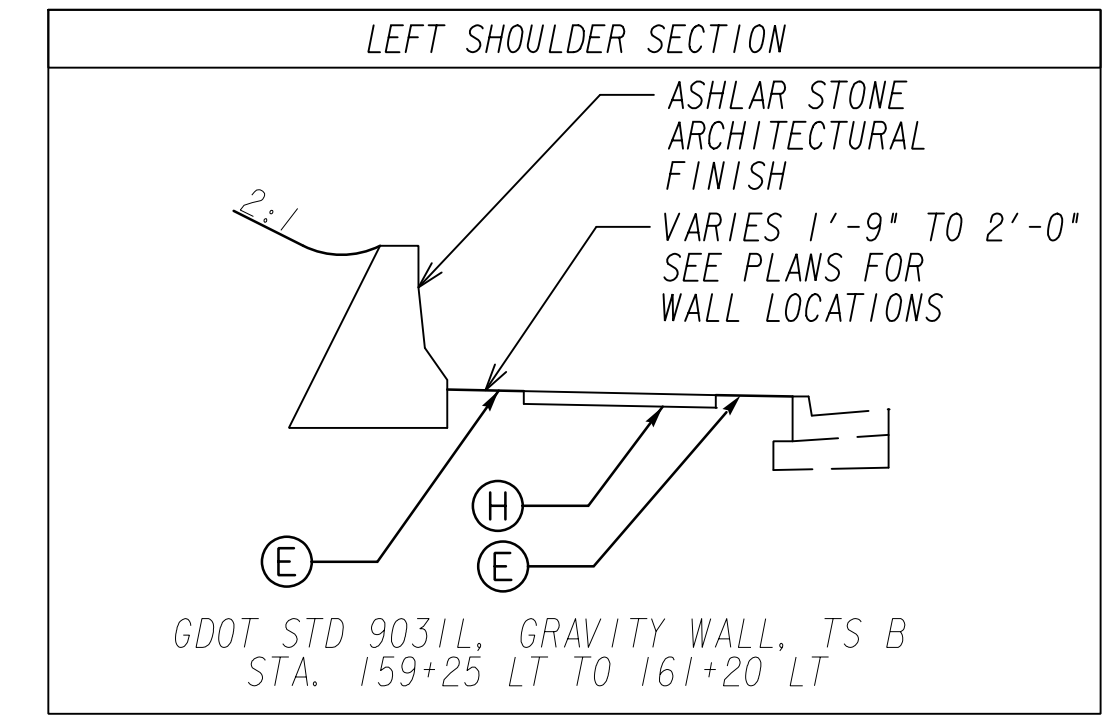
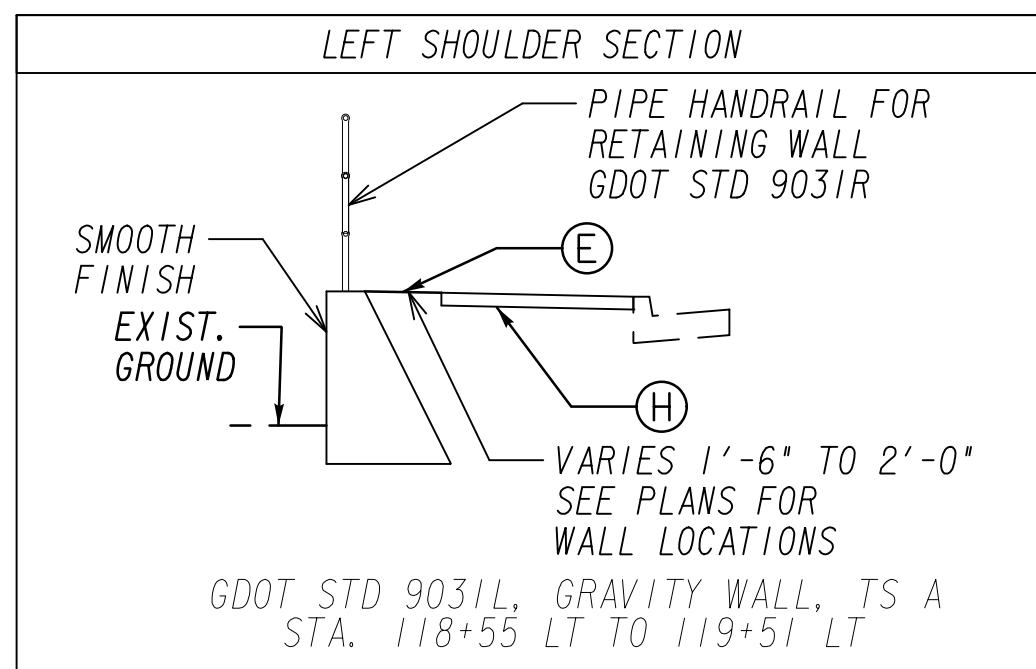
THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2022 CONSTRUCTION STANDARDS AND DETAILS BOOK (DATED AUGUST 1, 2021) AND ATTACHED APPLICABLE REVISIONS. THE 2022 CONSTRUCTION STANDARDS AND DETAILS BOOK IS AVAILABLE AT: <http://mydocs.dot.ga.gov/Info/gdotpubs/ConstructionStandardsAndDetails/Forms/AllItems.aspx>. ANY REVISIONS CONTAINED WITHIN THIS PLAN SET SUPERSEDE THE 2022 CONSTRUCTION STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.

LENGTH OF PROJECT		COUNTY No. RICHMOND COUNTY (245)
		MILES
LENGTH OF ROADWAY	2.7562	
LENGTH OF BRIDGES	0.0000	
LENGTH OF PROJECT	2.7562	



DATE	AUGUSTA DIRECTOR OF ENGINEERING
PLANS COMPLETED	10-19-2022
REVISIONS	
	12-21-2022: 5-0001, 5-0002, 6-0001, 6-0002,
	6-0004, 11-0001-0006, 13-0017, 24-0009-0031,
	27-0003-0012, 28 SERIES, 53.3-0001-0031

DRAWING No.
01-0001



- REQUIRED ITEMS**
- (A) RECYCLED ASPH CONC 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME (165 LB/SY)
 - (B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (275 LB/SY)
 - (C) MILL ASPH CONC PVMT, 4 IN DEPTH
 - (D) MILL ASPH CONC PVMT, 1 1/2 IN DEPTH
 - (E) GRASSING
 - (F) GR AGGR BASE CRS, 6", INCL MATL
 - (G) CONC CURB & GUTTER, 8" X 30", TP 2, GDOT STD. 9032B
 - (H) CONC SIDEWALK, 4"

- * SIDEWALK SLOPES**
- STA. 121+50.00 LT TO STA. 122+25.00 LT @ -2%
 - STA. 130+50.00 LT TO STA. 133+50.00 LT @ -2%
 - STA. 145+90.00 RT TO STA. 149+40.00 RT @ -2%
 - STA. 150+00.00 RT TO STA. 151+50.00 RT @ -2%
 - STA. 151+75.00 LT TO STA. 154+50.00 LT @ 1%
 - STA. 191+50.00 RT TO STA. 235+00.00 RT @ -2%

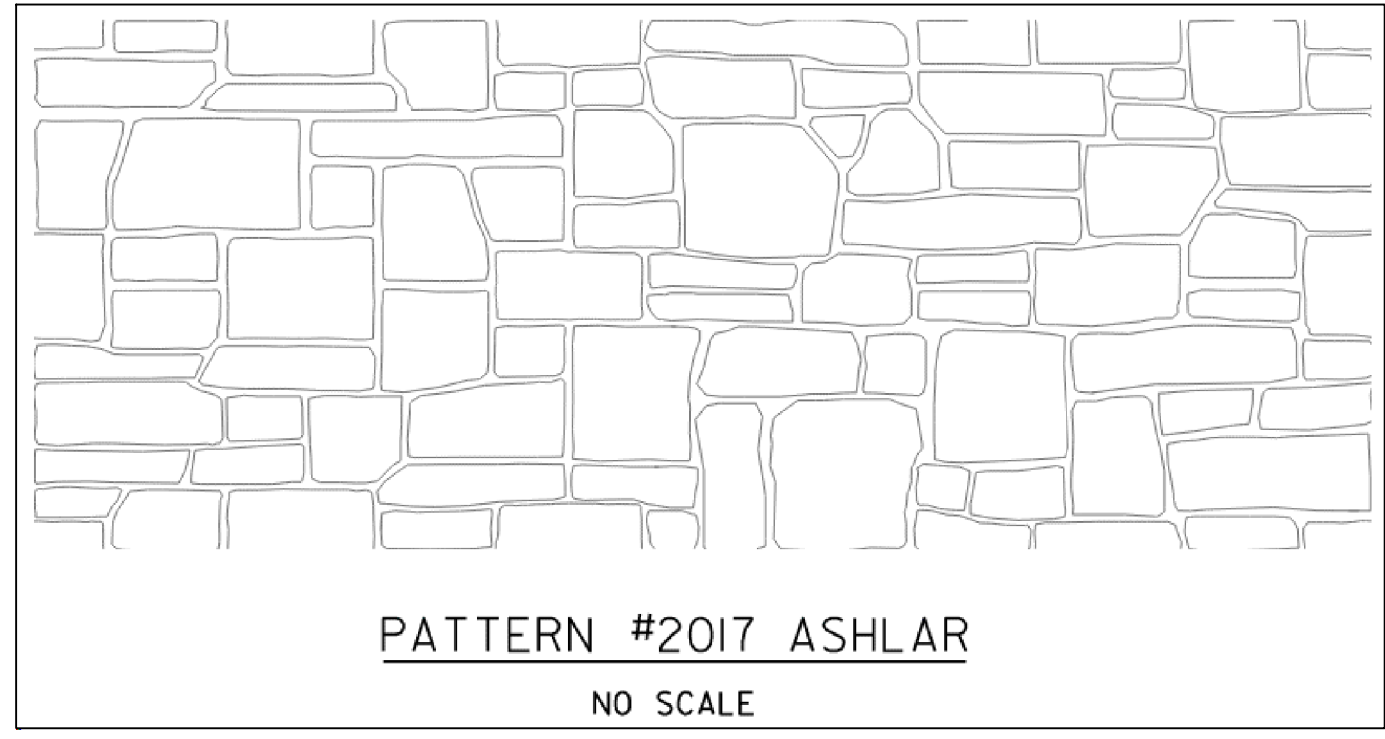
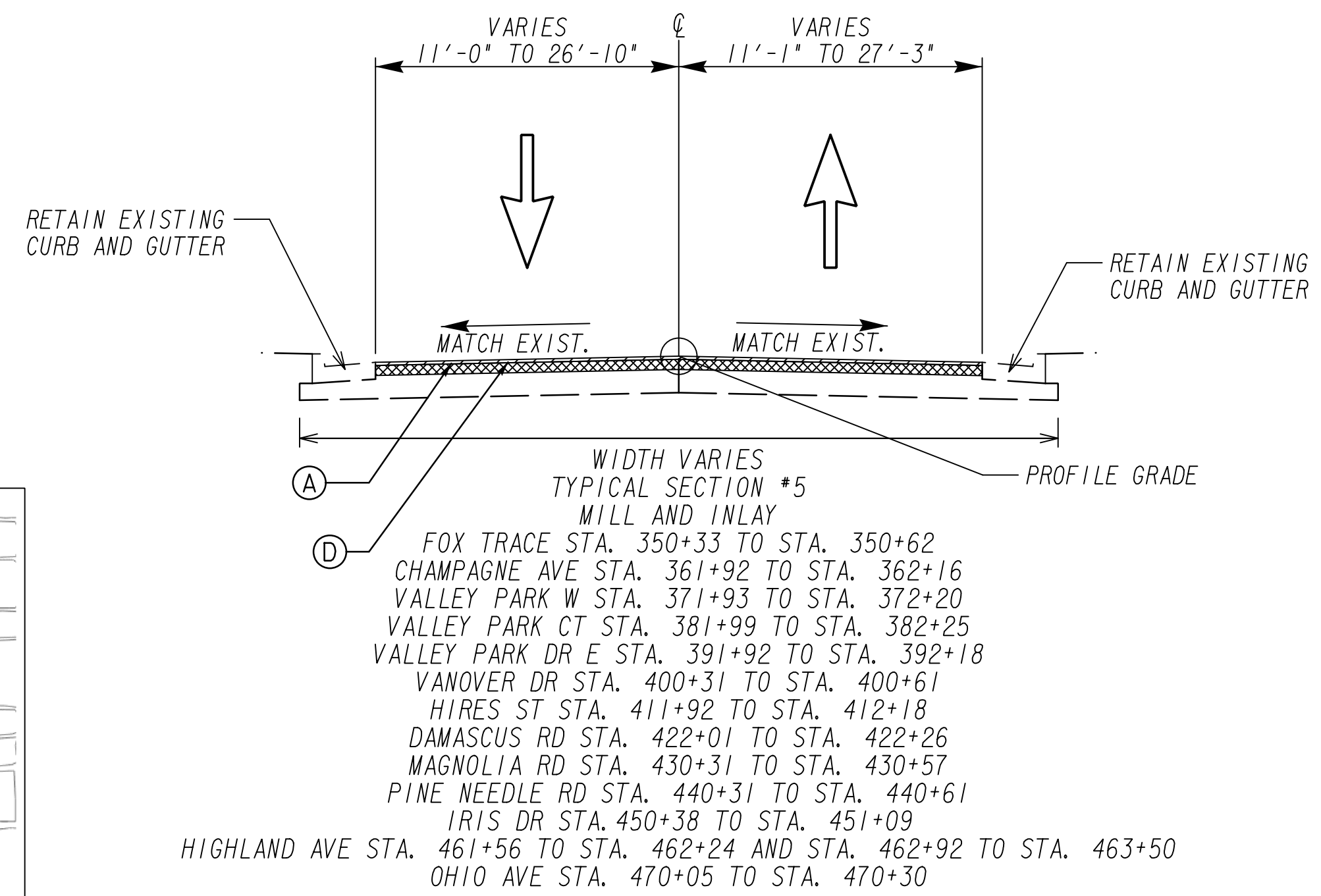
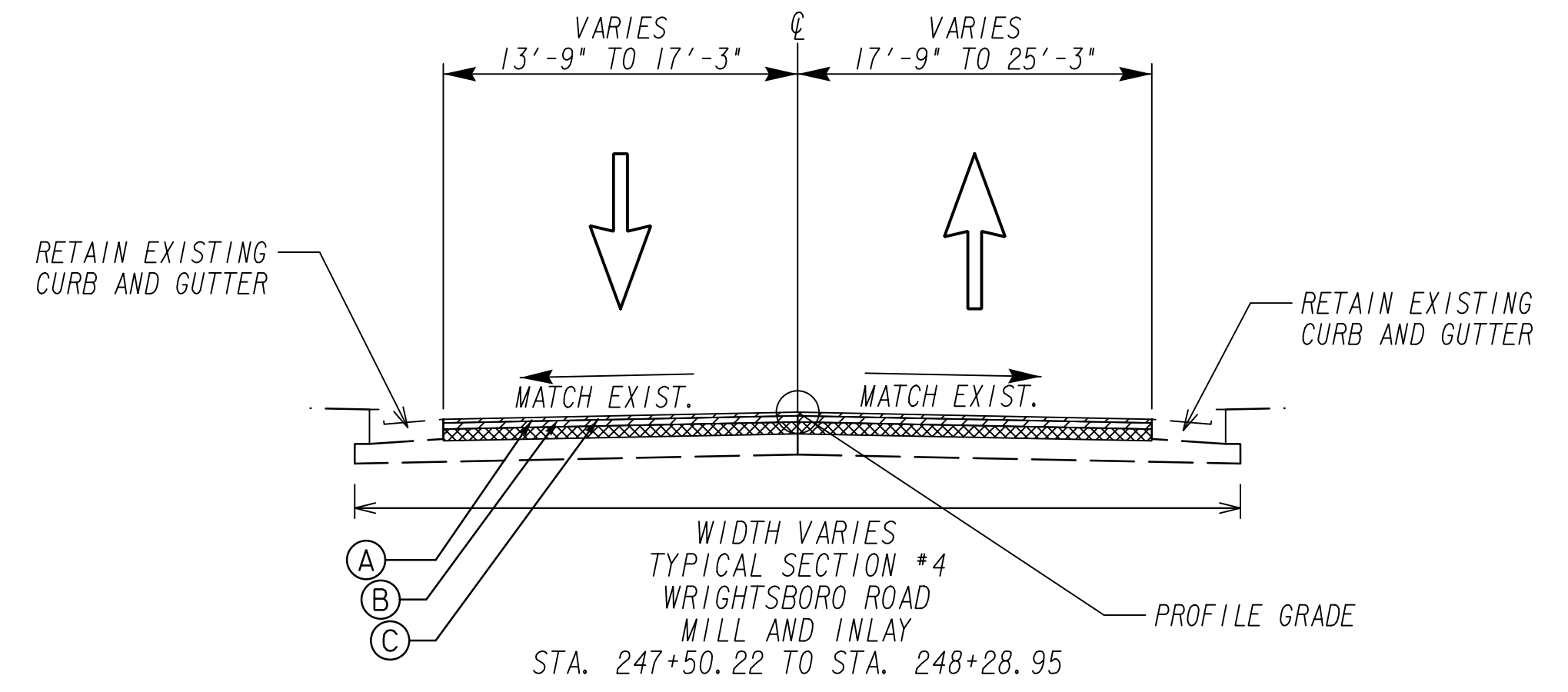
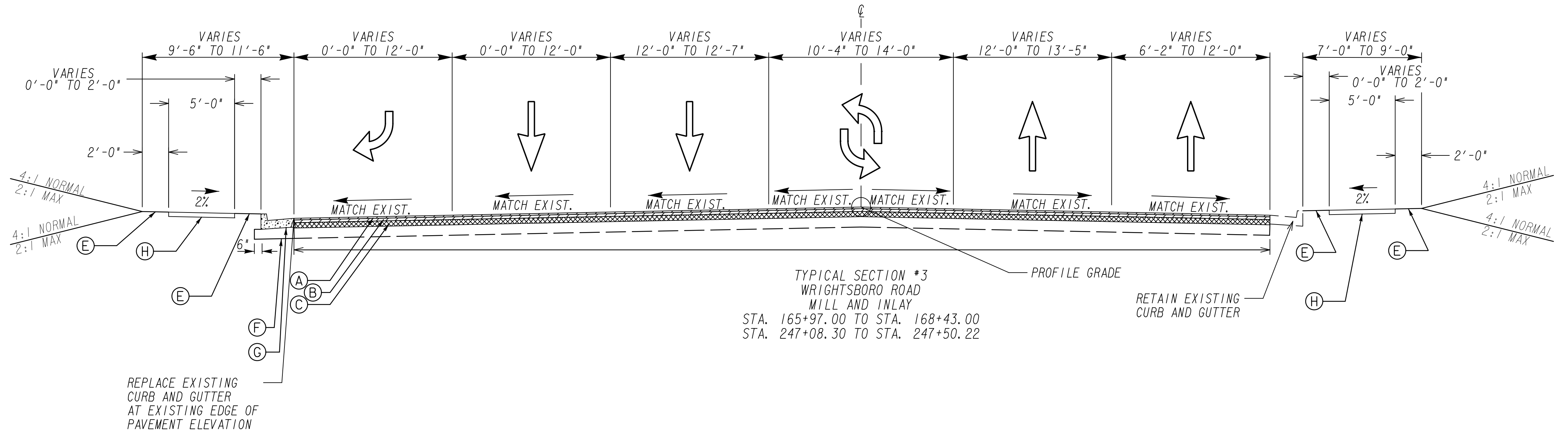
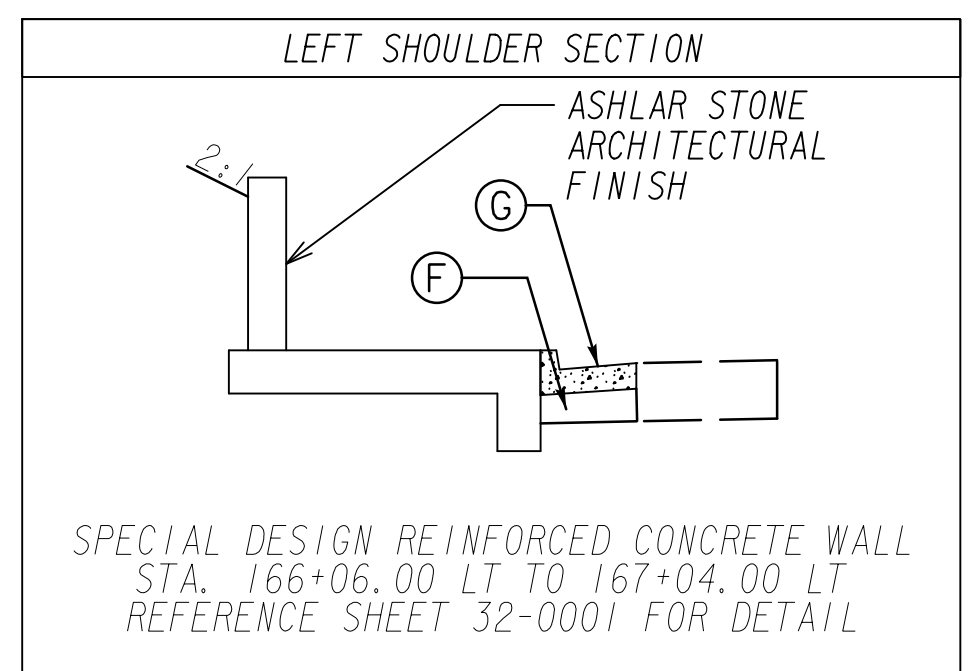
NOTE:
 1. LIGHTING WILL BE CONSTRUCTED ALONG THE ENTIRE LENGTH OF THE PROJECT. REFER TO SHEETS 25-0001 TO 25-0011 FOR LIGHTING PLANS.



NOT TO SCALE

REVISION DATES	
12-21-22	

TYPICAL SECTIONS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	05-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



- REQUIRED ITEMS**
- (A) RECYCLED ASPH CONC 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME (165 LB/SY)
 - (B) RECYCLED ASPH CONC 19 mm SUPERPAVE, GP 1 OR 2, INCL POLYMER-MODIFIED BITUM MATL & H LIME (275 LB/SY)
 - (C) MILL ASPH CONC PVMT, 4 IN DEPTH
 - (D) MILL ASPH CONC PVMT, 1 1/2 IN DEPTH
 - (E) GRASSING
 - (F) GR AGGR BASE CRS, 6", INCL MATL
 - (G) CONC CURB & GUTTER, 8" X 30", TP 2, GDOT STD. 9032B
 - (H) CONC SIDEWALK, 4"

NOTE:
 1. LIGHTING WILL BE CONSTRUCTED ALONG THE ENTIRE LENGTH OF THE PROJECT. REFER TO SHEETS 25-0001 TO 25-0011 FOR LIGHTING PLANS.

REVISION DATES	
12-21-22	



NOT TO SCALE

TYPICAL SECTIONS
 WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SUMMARY OF QUANTITIES

TRAFFIC CONTROL 150-1000	
PROJECT NO. 0013375	LUMP SUM

GRADING COMPLETE 210-0100	
PROJECT NO. 0013375	LUMP SUM

CONCRETE SIDEWALK 4 IN 441-0104	
TOTAL	10697 SY

CONCRETE SIDEWALK 8 IN 441-0104	
TOTAL	1985 SY

CONCRETE HEADER CURB, 6IN TP 2 441-5002	
TOTAL	605 LF

30 IN CONCRETE CURB & GUTTER, TP 2 441-6222	
TOTAL	678 LF

CONCRETE MEDIAN, 6 IN 441-0748	
TOTAL	53 SY

CLASS B CONC, BASE OR PVMT WIDENING 500-9999	
TOTAL	12 CY

RIGHT OF WAY MARKERS 634-1200	
TOTAL	21 EA

CHANGEABLE PORTABLE MESSAGE SIGN, TYPE 3; 632-0003	
TOTAL	4 EA

ROADWAY SURFACING QUANTITIES						
PAY ITEM	ITEMS	UNIT	WRIGHTSBORO ROAD	SIDEROADS	DRIVEWAYS	TOTAL
310-1101	GR AGGR BASE CRS, INCL. MAT'L	TN	78		309	387
318-3000	AGGR SURF CRS	TN			2668	2668
402-1801	RECYCLED ASPH CONC. PATCHING INCL. BITUM MATL	TN	1665			1665
402-4510	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	TN	6161	221	76	6458
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP1 OR 2, INCL BITUM MATL & H LIME	TN	10260		74	10334
413-0750	TACK COAT	GAL	8958	161	96	9215
432-0216	MILL ASPH CONC PVMT, 4 IN	SY	74617	2668		77285
432-0206	MILL ASPH CONC PVMT, 1 1/2 IN DEPTH	SY		667		667
441-4040	CONCRETE VALLEY GUTTER WITH CURB, 6 IN	SY			378	378
441-4050	CONCRETE VALLEY GUTTER WITH CURB, 8 IN	SY			456	456
444-1000	SAWED JOINTS IN EXIST PAVEMENTS - PCC	LF			340	340
441-0016	DRIVEWAY CONCRETE, 6 IN TK	SY			14	14
441-0018	DRIVEWAY CONCRETE, 8 IN TK	SY			2168	2168

WALL #1 STA. 118+55 - 119+51 GRAVITY WALL			
PAY ITEM	ITEMS	UNIT	TOTAL
500-3107	CLASS A CONCRETE, RETAINING WALL	CY	26
515-2020	GALV STEEL PIPE HANDRAIL, 2 IN, ROUND	LF	96
530-0105	WATERPROOFING	SY	2.87

WALL #2 STA. 159+25 - 161+20 GRAVITY WALL			
PAY ITEM	ITEMS	UNIT	TOTAL
500-3201	CLASS B CONCRETE, RETAINING WALL	CY	55
530-0105	WATERPROOFING	SY	8.83

WALL #3 STA. 166+06 - 167+04 SPECIAL DESIGN WALL			
PAY ITEM	ITEMS	UNIT	TOTAL
500-3107	CLASS A CONCRETE, RETAINING WALL	CY	16
511-1000	BAR REINF STEEL	LB	809
530-0105	WATERPROOFING	SY	2.67

DRIVEWAYS				
NUMBER	LOCATION	LENGTH	WIDTH	MATERIAL
62	173+24	59.39'	25'	CONCRETE
76	191+30	49.11'	24'	ASPHALT
77	201+91	47.40'	14'	ASPHALT
78	202+83	46.32'	14'	ASPHALT
79	203+07	45.49'	14'	CONCRETE
80	204+06	47.44'	14'	ASPHALT
81	204+79	52.19'	14'	ASPHALT
82	205+04	43.57'	14'	ASPHALT
83	205+59	46.30'	14'	ASPHALT
84	205+86	47.24'	14'	ASPHALT
85	206+40	45.10'	14'	ASPHALT
86	207+09	43.73'	18'	ASPHALT
87	207+86	43.12'	14'	ASPHALT
88	209+13	43.12'	13'	ASPHALT
89	209+91	48.56'	12'	ASPHALT
90	210+49	45.85'	12'	ASPHALT
91	210+60	43.41'	11'	ASPHALT
92	211+95	48.99'	23'	ASPHALT
93	213+24	43.29'	19'	ASPHALT
94	214+24	48.29'	11'	ASPHALT
95	214+38	50.36'	10'	ASPHALT
96	215+91	43.12'	11'	ASPHALT
97	216+52	53.08'	20'	ASPHALT
98	217+78	47.21'	11'	ASPHALT
99	218+77	43.12'	12'	ASPHALT
100	219+50	45.83'	11'	ASPHALT
101	220+53	43.15'	12'	ASPHALT
102	220+77	44.90'	12'	ASPHALT
103	221+60	44.02'	12'	ASPHALT
106	227+33	47.65'	42'	ASPHALT
109	234+90	46.46'	33'	ASPHALT

NOTE: FOR INFORMATION ONLY, QUANTITIES WITH ROADWAY ITEMS



REVISION DATES

12/21/2022

SUMMARY QUANTITIES
WRIGHTSBORO RD RECONSTRUCTION
AND PEDESTRIAN IMPROVEMENTS
FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SUMMARY OF QUANTITIES

EROSION CONTROL

TEMPORARY GRASSING 163-0232	
TOTAL	1 AC

MAINTENANCE OF TEMPORARY SILT FENCE, TYPE A 165-0010	
TOTAL	7200 LF

MULCH 163-0240	
TOTAL	77 TN

MAINTENANCE OF INLET SEDIMENT TRAP 165-0105	
TOTAL	134 EA

AGRICULTURAL LIME 700-7000	
TOTAL	6 TN

MAINTENANCE OF CONSTRUCTION EXIT 165-0101	
TOTAL	1 EA

WATER QUALITY MONITORING & SAMPLING 167-1000	
TOTAL	1 EA

FERTILIZER, MIXED GRADE 700-8000	
TOTAL	3 TN

CONSTRUCT AND REMOVE CONSTRUCTION EXIT 163-0301	
TOTAL	1 EA

WATER QUALITY INSPECTIONS 167-1500	
TOTAL	18 MO

FERTILIZER, NITROGEN CONTENT 700-8100	
TOTAL	100 LB

MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA 165-0310	
TOTAL	1 EA

TEMPORARY SILT FENCE, TYPE A 171-0010	
TOTAL	14300 LF

EROSION CONTROL MATS, SLOPES 716-2000	
TOTAL	2500 SY

CONSTRUCT AND REMOVE INLET SEDIMENT TRAP 163-0550	
TOTAL	134 EA

ROADWAY MARKING QUANTITIES

PAY ITEM	ITEMS	UNIT	WRIGHTSBORO ROAD	SIDE ROADS	TOTAL
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	95		95
653-0130	THERMOPLASTIC PVMT MARKING, ARROW, TP 3	EA	2		2
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	25421		25421
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	21150	302	21452
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	727		727
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	16356		16356
653-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	18609		18609
653-3502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	GLF	15576		15576
653-6004	THERMOPLASTIC TRAFFIC STRIPING, WHITE	SY	300		300
653-6006	THERMOPLASTIC TRAFFIC STRIPING, YELLOW	SY	110		110
654-1001	RAISED PVMT MARKERS TP 1	EA	1568		1568
654-1003	RAISED PVMT MARKERS TP 3	EA	2512		2512

LIGHTING

LIGHTING (LED LUMINAIRE & POLE) 680-4110	
TOTAL	389 EA

LUMINAIRE AND POLE INSTALLATION 999-0014	
TOTAL	389 EA

REVISION DATES

12/21/2022		

SUMMARY QUANTITIES

WRIGHTSBORO RD RECONSTRUCTION
AND PEDESTRIAN IMPROVEMENTS
FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SUMMARY OF QUANTITIES

LANDSCAPING

PERSIAN PARROTIA 999-2015	
TOTAL	4 EA

PRINCETON AMERICAN ELM 702-1081	
TOTAL	4 EA

ROSE CREEK ABELIA 702-0006	
TOTAL	82 EA

CINNAMON GIRL DISTYLIUM 999-2015	
TOTAL	373 EA

AUGUST BEAUTY GARDENIA 702-0280	
TOTAL	28 EA

DWARF BURFORD HOLLY (TREE FORM) 999-2015	
TOTAL	23 EA

JAZZ HANDS DWARF PINK LOROPETALUM 702-0610	
TOTAL	706 EA

ADAGIO EULALIA GRASS 999-2015	
TOTAL	238 EA

HEAVY METAL SWITCH GRASS 702-0719	
TOTAL	504 EA

LEMON DRIFT ROSE 702-0981	
TOTAL	296 EA

ORANGE DAYLILY 702-0063	
TOTAL	471 EA

STELLA DE ORO DAYLILY 702-0330	
TOTAL	1408 EA

CREEPING PHLOX 702-0727	
TOTAL	321 EA

SOD 700-9300	
TOTAL	2691 SY

PERMANENT GRASSING 700-6910	
TOTAL	1.36 AC

IRRIGATION 766-7020	
TOTAL	65817 SF

LANDSCAPE MULCH 702-9025	
TOTAL	3483 SY

PLANTING SOIL MIX 708-1000	
TOTAL	777 CY

SIGNALS

TRAFFIC SIGNAL INSTALLATION NO - 1 WRIGHTSBORO RD 647-1000	
PROJECT NO. 22TP007	LUMP SUM

TRAFFIC SIGNAL INSTALLATION NO - 2 WRIGHTSBORO RD 647-1000	
PROJECT NO. 22TP007	LUMP SUM

TRAFFIC SIGNAL INSTALLATION NO - 3 WRIGHTSBORO RD 647-1000	
PROJECT NO. 22TP007	LUMP SUM

TRAFFIC SIGNAL INSTALLATION NO - 4 WRIGHTSBORO RD 647-1000	
PROJECT NO. 22TP007	LUMP SUM

TRAFFIC SIGNAL INSTALLATION NO - 5 WRIGHTSBORO RD 647-1000	
PROJECT NO. 22TP007	LUMP SUM

INTERNALLY ILLUMINATED STREET SIGN DOUBLE SIDED 647-3000	
TOTAL	21 EA

INTERNALLY ILLUMINATED STREET SIGN CONTROL ASSEMBLY 647-3100	
TOTAL	21 EA

CCTV SYSTEM, TYPE H 936-1010	
TOTAL	5 EA

CONDUIT AND BORING QUANTITIES			
GDOT PAY ITEM	ITEMS	UNIT	TOTAL
615-1100	DIRECTIONAL BORE - 5 IN	LF	264
615-1100	DIRECTIONAL BORE - 5 IN	LF	235
615-1100	DIRECTIONAL BORE - 5 IN	LF	159
615-1100	DIRECTIONAL BORE - 5 IN	LF	273
615-1100	DIRECTIONAL BORE - 5 IN	LF	272
682-6222	CONDUIT, NONMETAL, TP 2, 2 IN	LF	1056
682-6222	CONDUIT, NONMETAL, TP 2, 2 IN	LF	1000
682-6222	CONDUIT, NONMETAL, TP 2, 2 IN	LF	636
682-6222	CONDUIT, NONMETAL, TP 2, 2 IN	LF	1110
682-6222	CONDUIT, NONMETAL, TP 2, 2 IN	LF	1238

ELECTRICAL POWER SERVICE ASSEMBLY, AERIAL SERVICE POINT 939-5010	
TOTAL	5 EA

INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A 937-6050	
TOTAL	5 EA

OUTPUT EXPANSION MODULE, TYPE A 937-6100	
TOTAL	5 EA

SIGNAL POLE QUANTITIES			
PAY ITEM	ITEMS	UNIT	QTY
639-3004	STEEL STRAIN POLE, TP IV - WITH 35 FT MAST ARM	EA	3
639-3004	STEEL STRAIN POLE, TP IV - WITH 40 FT MAST ARM	EA	1
639-3004	STEEL STRAIN POLE, TP IV - WITH 45 FT MAST ARM	EA	2
639-3004	STEEL STRAIN POLE, TP IV - WITH 50 FT MAST ARM	EA	2
639-3004	STEEL STRAIN POLE, TP IV - WITH 55 FT MAST ARM	EA	6
639-3004	STEEL STRAIN POLE, TP IV - WITH 35 FT & 55 FT MAST ARM	EA	1
639-3004	STEEL STRAIN POLE, TP IV - WITH 55 FT & 65 FT MAST ARM	EA	1

NOTE: SEE 27-SERIES PLANS FOR LOCATIONS.



REVISION DATES

12/21/2022		

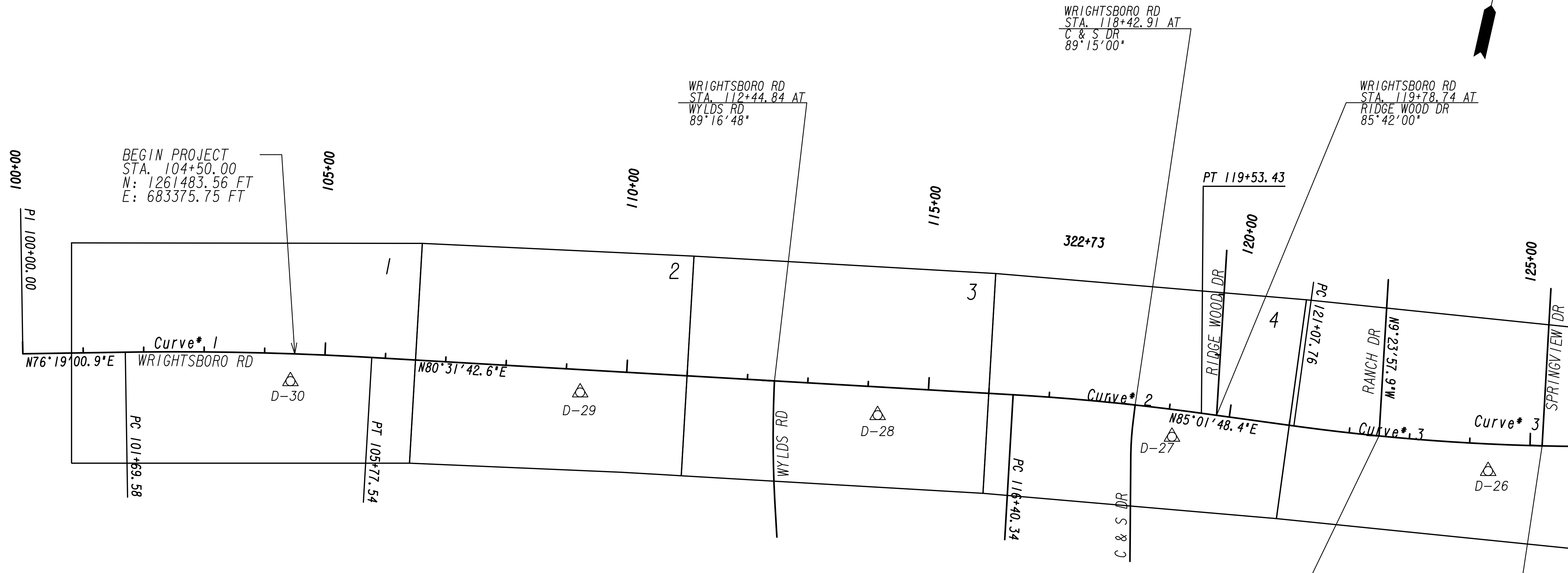
SUMMARY QUANTITIES
WRIGHTSBORO RD RECONSTRUCTION
AND PEDESTRIAN IMPROVEMENTS
FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Curve* 1
 PI Sta= 103+73.66
 N= 1261472.4068
 E= 683300.0170
 DELTA= 4°12'41.7" (RT)
 D= 1°01'56.48"
 T= 204.07
 L= 407.96
 R= 5550.00
 E= 3.75

Curve* 2
 PI Sta= 117+96.97
 N= 1261706.6525
 E= 684704.1050
 DELTA= 4°30'05.7" (RT)
 D= 1°26'16.03"
 T= 156.63
 L= 313.09
 R= 3985.00
 E= 3.08

Curve* 3
 PI Sta= 124+00.87
 N= 1261758.9838
 E= 685305.8954
 DELTA= 9°10'11.8" (LT)
 D= 1°34'03.36"
 T= 293.11
 L= 584.97
 R= 3655.00
 E= 11.73



CONTROL POINT LABEL	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
D-30	104+44.36	45.37' RT	1261437.9400	683378.7543	374.44	D-30 4RBWC
D-29	109+24.97	37.72' RT	1261525.9540	683850.2030	375.82	D-29 4RBWC
D-28	114+18.45	46.61' RT	1261598.3920	684338.4241	380.38	D-28 4RBWC
D-27	119+09.95	45.09' RT	1261671.3390	684821.2595	382.35	D-27 4RBWC
D-26	124+32.76	44.78' RT	1261732.0030	685343.8208	376.60	D-26 4RBWC

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---P--- BEGIN LIMIT OF ACCESS.....BLA
 ---E--- END LIMIT OF ACCESS.....ELA
 ---G---F--- LIMIT OF ACCESS
 ---H---H--- REQ'D R/W & LIMIT OF ACCESS
 ---I---I--- ORANGE BARRIER FENCE
 ---J---J--- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

CONSTRUCTION LAYOUT
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED: _____ DATE: _____
 BACKCHECKED: _____ DATE: _____
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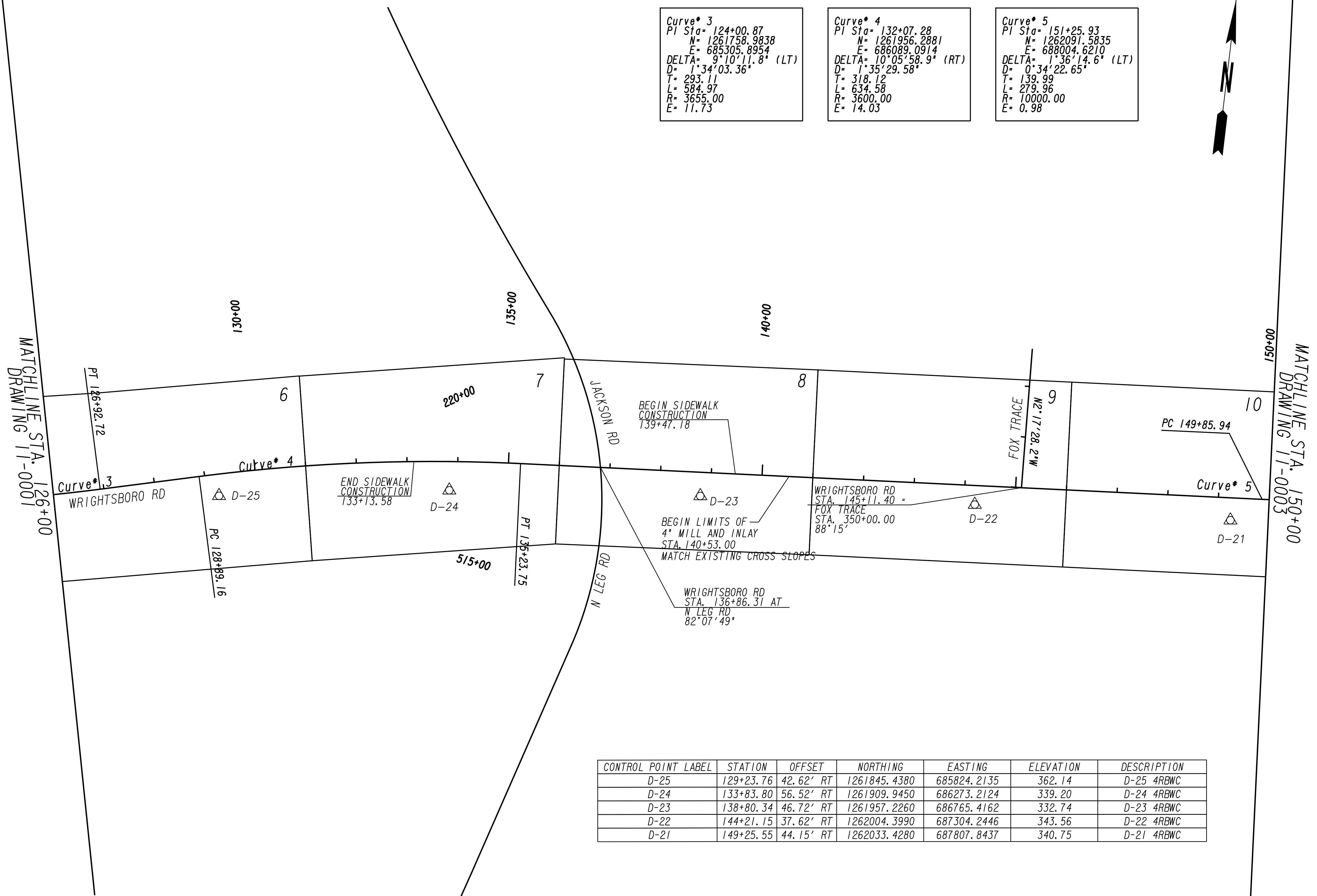
DRAWING No. 11-0001



Curve* 3
 PI Sta= 124+00.87
 N= 1261758.9838
 E= 685305.8954
 DELTA= 9°10'11.8" (LT)
 D= 1°34'03.36"
 T= 293.11
 L= 584.97
 R= 3655.00
 E= 11.73

Curve* 4
 PI Sta= 132+07.28
 N= 1261956.2881
 E= 686089.0914
 DELTA= 10°05'58.9" (RT)
 D= 1°35'29.58"
 T= 318.12
 L= 634.58
 R= 3600.00
 E= 14.03

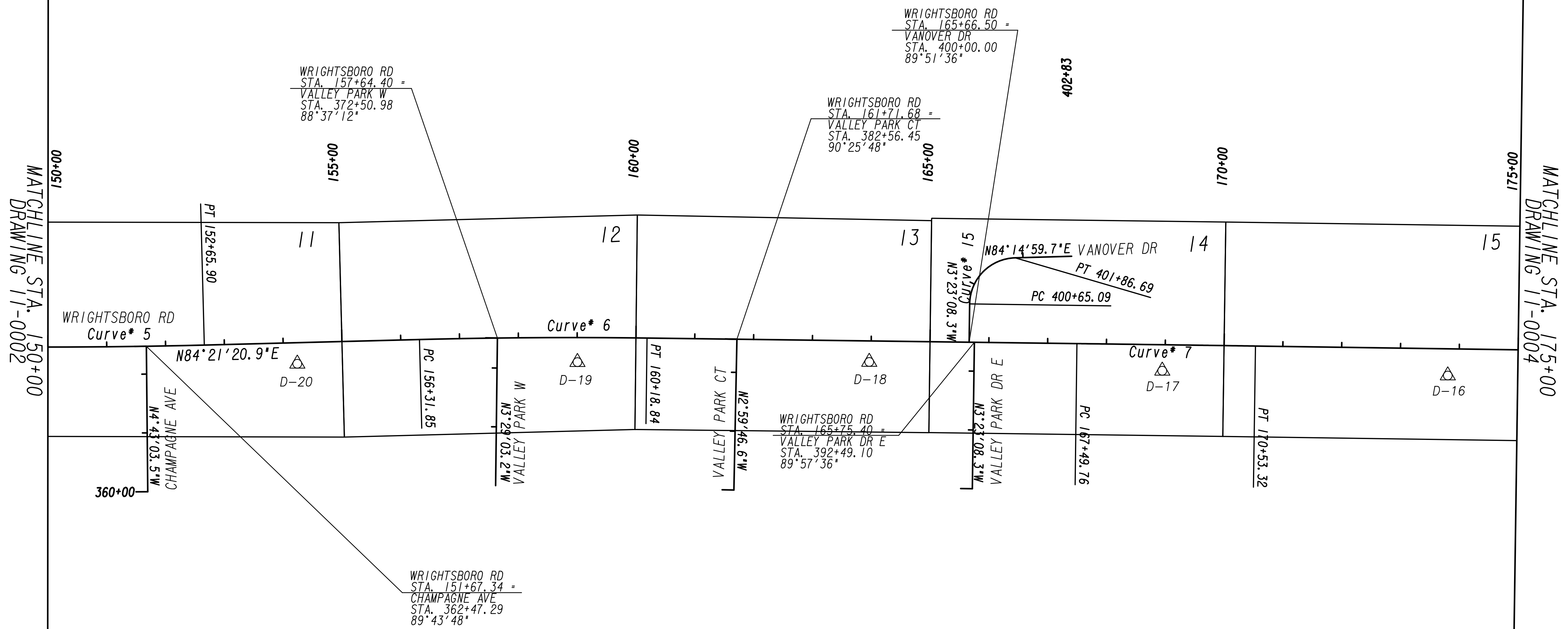
Curve* 5
 PI Sta= 151+25.93
 N= 1262091.5835
 E= 688004.6210
 DELTA= 1°36'14.6" (LT)
 D= 0°34'22.65"
 T= 139.99
 L= 279.96
 R= 10000.00
 E= 0.98



CONTROL POINT LABEL	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
D-25	129+23.76	42.62' RT	1261845.4380	685824.2135	362.14	D-25 4RBWC
D-24	133+83.80	56.52' RT	1261909.9450	686273.2124	339.20	D-24 4RBWC
D-23	138+80.34	46.72' RT	1261957.2260	686765.4162	332.74	D-23 4RBWC
D-22	144+21.15	37.62' RT	1262004.3990	687304.2446	343.56	D-22 4RBWC
D-21	149+25.55	44.15' RT	1262033.4280	687807.8437	340.75	D-21 4RBWC

Drawing Copyright © 2020 6745 Sugarloaf Parkway, Suite 100 Duluth, GA 30097 770.447.8999 - www.chacompanies.com	REVISION DATES 12-21-22	CONSTRUCTION LAYOUT WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE
	CHECKED: _____ DATE: _____ BACKCHECKED: _____ DATE: _____ CORRECTED: _____ DATE: _____ VERIFIED: _____ DATE: _____	DRAWING No. 11-0002

<p>Curve* 5 PI Sta= 151+25.93 N= 1262091.5835 E= 688004.6210 DELTA= 1°36'14.6" (LT) D= 0°34'22.65" T= 139.99 L= 279.96 R= 10000.00 E= 0.98</p>	<p>Curve* 6 PI Sta= 158+25.37 N= 1262160.3755 E= 688700.6867 DELTA= 2°13'02.2" (RT) D= 0°34'22.65" T= 193.52 L= 386.99 R= 10000.00 E= 1.87</p>	<p>Curve* 7 PI Sta= 169+01.54 N= 1262224.7069 E= 689774.9809 DELTA= 0°05'13.1" (RT) D= 0°01'43.13" T= 151.78 L= 303.55 R= 200000.00 E= 0.06</p>	<p>Curve* 15 PI Sta= 401+41.38 N= 1262345.8082 E= 689432.1850 DELTA= 87°38'08.0" (RT) D= 72°04'12.59" T= 76.29 L= 121.60 R= 79.50 E= 30.68</p>
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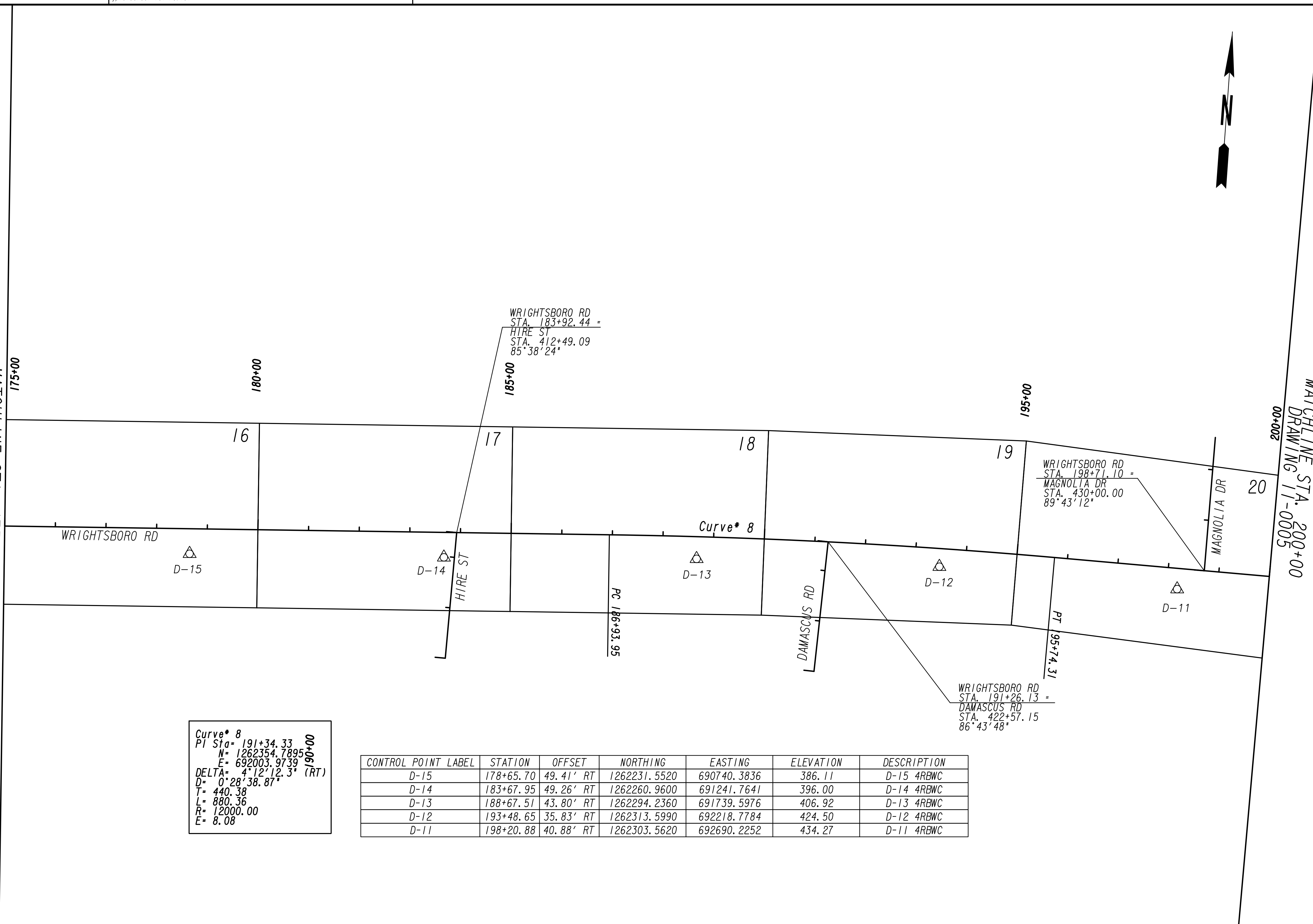
CONTROL POINT LABEL	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
D-20	154+23.16	35.87' RT	1262085.1260	688303.9531	351.90	D-20 4RBWC
D-19	159+00.54	41.70' RT	1262122.5840	688778.7991	361.89	D-19 4RBWC
D-18	163+97.15	35.81' RT	1262158.8150	689273.6335	364.48	D-18 4RBWC
D-17	168+95.44	44.24' RT	1262180.1270	689771.5058	368.70	D-17 4RBWC
D-16	173+81.02	45.41' RT	1262207.3070	690256.2874	376.82	D-16 4RBWC

 Drawing Copyright © 2020 6745 Sugarloaf Parkway, Suite 100 Duluth, GA 30097 770.447.8999 - www.chacompanies.com	REVISION DATES 12-21-22	CONSTRUCTION LAYOUT WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE							
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MATCHLINE STA. 175+00
DRAWING 11-0003

MATCHLINE STA. 200+00
DRAWING 11-0005



Curve* 8
 PI Sta= 191+34.33
 N= 1262354.7895
 E= 692003.9739
 DELTA= 4°12'12.3" (RT)
 D= 0°28'38.87"
 T= 440.38
 L= 880.36
 R= 12000.00
 E= 8.08

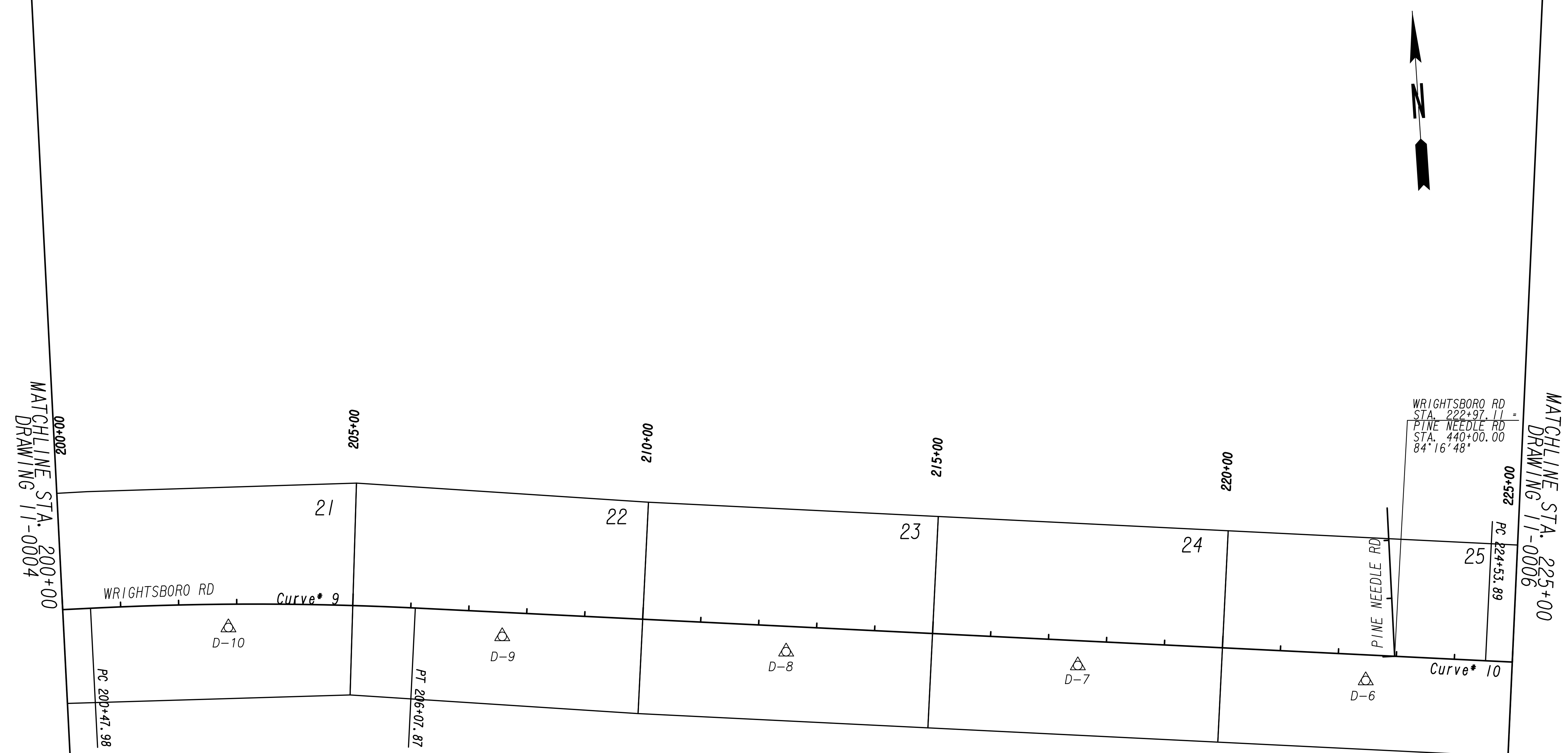
CONTROL POINT LABEL	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
D-15	178+65.70	49.41' RT	1262231.5520	690740.3836	386.11	D-15 4RBWC
D-14	183+67.95	49.26' RT	1262260.9600	691241.7641	396.00	D-14 4RBWC
D-13	188+67.51	43.80' RT	1262294.2360	691739.5976	406.92	D-13 4RBWC
D-12	193+48.65	35.83' RT	1262313.5990	692218.7784	424.50	D-12 4RBWC
D-11	198+20.88	40.88' RT	1262303.5620	692690.2252	434.27	D-11 4RBWC

REVISION DATES	
12-21-22	

CONSTRUCTION LAYOUT
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No. 11-0004
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	





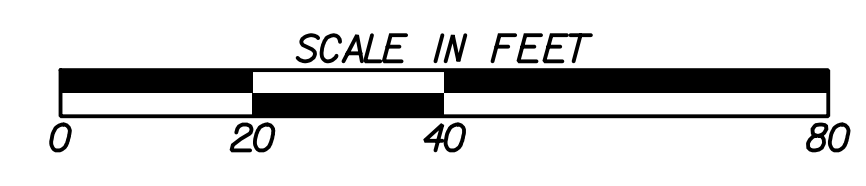
Curve* 9
 PI Sta= 203+28.16
 N= 1262336.7929
 E= 693198.0633
 DELTA= 5°43'42.5" (RT)
 D= 1°01'23.30"
 T= 280.18
 L= 559.89
 R= 5600.00
 E= 7.00

Curve* 10
 PI Sta= 226+17.97
 N= 1262073.8744
 E= 695473.2041
 DELTA= 1°34'00.3" (LT)
 D= 0°28'38.87"
 T= 164.08
 L= 328.14
 R= 12000.00
 E= 1.12

CONTROL POINT LABEL	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
D-10	202+85.43	40.21' RT	1262292.2610	693152.8802	429.21	D-10 4RBWC
D-9	207+59.74	41.40' RT	1262246.0730	693622.5064	423.35	D-9 4BWC
D-8	212+49.55	43.75' RT	1262187.5010	694108.8006	424.05	D-8 4RBWC
D-7	217+52.62	42.67' RT	1262130.8270	694608.6706	428.55	D-7 4RBWC
D-6	222+49.38	44.07' RT	1262072.4130	695101.9900	426.41	D-6 4RBWC

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---P--- BEGIN LIMIT OF ACCESS.....BLA
 ---E--- END LIMIT OF ACCESS.....ELA
 ---G---F--- LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

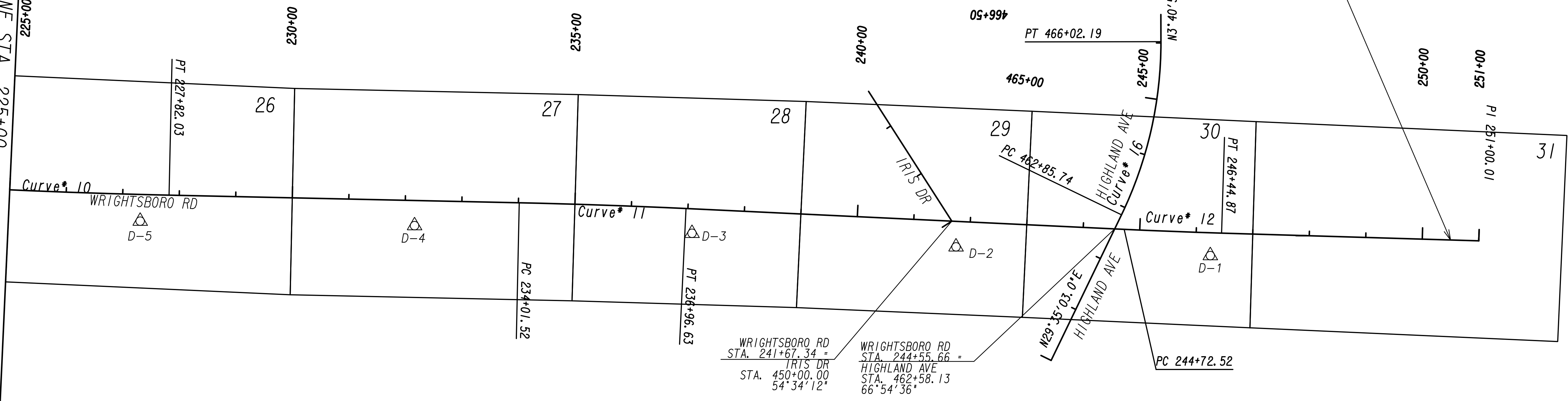
CONSTRUCTION LAYOUT
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CONTROL POINT LABEL	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
D-5	227+32.08	47.17' RT	1262017.0060	695582.5776	424.21	D-5 4RBWC
D-4	232+17.22	44.49' RT	1261977.0670	696066.2685	425.40	D-4 4RBWC
D-3	237+09.28	43.21' RT	1261931.2540	696555.0547	425.04	D-3 4RBWC
D-2	241+76.91	45.03' RT	1261876.5440	697019.4692	423.26	D-2 4RBWC
D-1	246+26.18	40.35' RT	1261831.4780	697467.1340	418.32	D-1 4RBWC

<p>Curve* 10 PI Sta= 226+17.97 N= 1262073.8744 E= 695473.2041 DELTA= 1°34'00.3" (LT) D= 0°28'38.87" T= 164.08 L= 328.14 R= 12000.00 E= 1.12</p>	<p>Curve* 11 PI Sta= 235+49.08 N= 1261992.3136 E= 696400.7521 DELTA= 1°28'13.1" (RT) D= 0°29'53.61" T= 147.56 L= 295.11 R= 11500.00 E= 0.95</p>	<p>Curve* 12 PI Sta= 245+58.70 N= 1261878.0985 E= 697403.9059 DELTA= 0°59'15.1" (LT) D= 0°34'22.65" T= 86.18 L= 172.36 R= 10000.00 E= 0.37</p>	<p>Curve* 16 PI Sta= 464+46.72 N= 1262053.7553 E= 697394.6381 DELTA= 25°54'06.0" (LT) D= 8°11'06.40" T= 160.98 L= 316.45 R= 700.00 E= 18.27</p>
---	---	--	---

MATCHLINE STA. 225+00
DRAWING 11-0005



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---P--- BEGIN LIMIT OF ACCESS.....BLA
 ---E--- END LIMIT OF ACCESS.....ELA
 ---G---F--- LIMIT OF ACCESS
 ---H---H--- REQ'D R/W & LIMIT OF ACCESS
 ---I---I--- ORANGE BARRIER FENCE
 ---J---J--- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

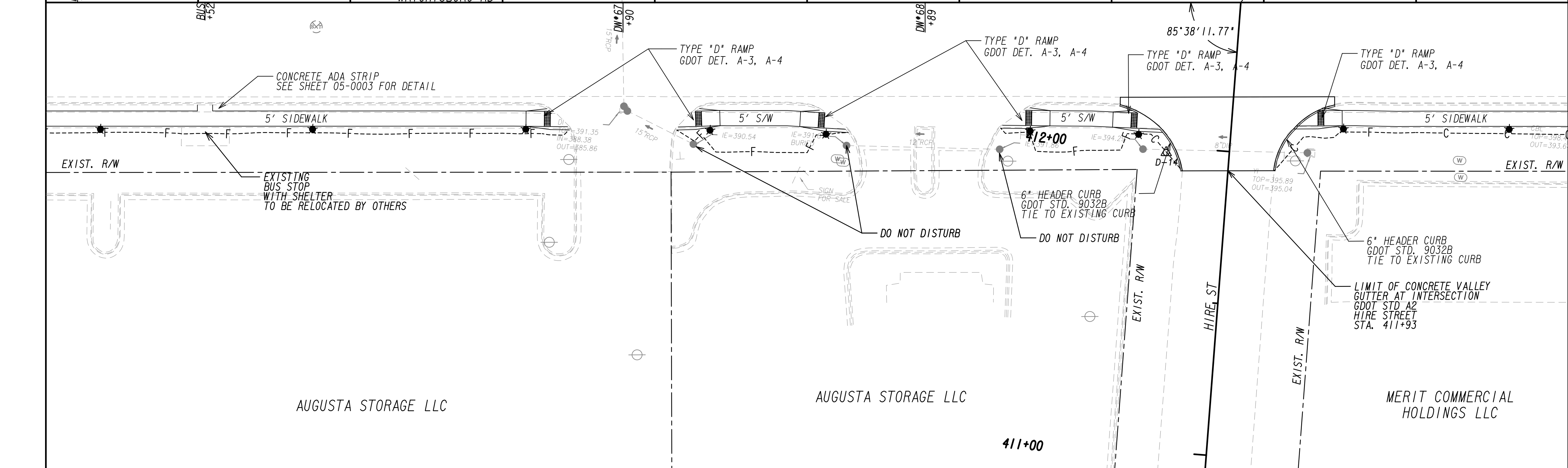
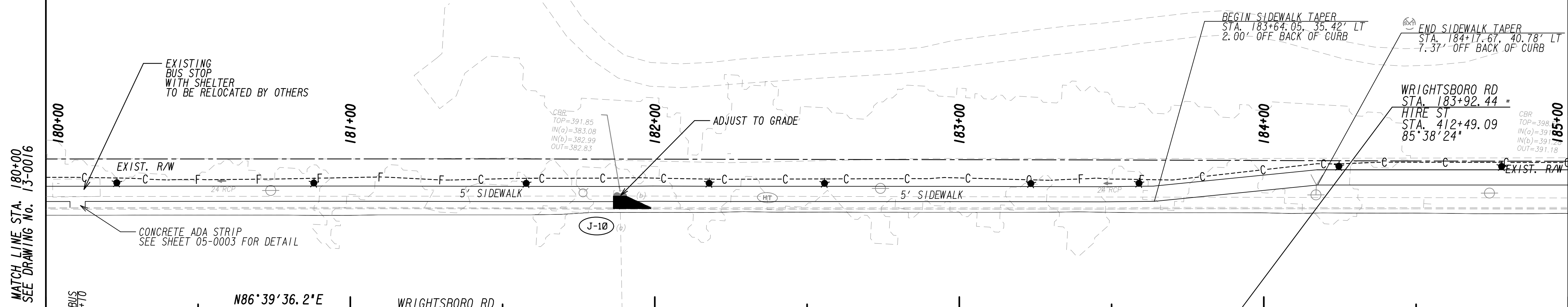


REVISION DATES	
12-21-22	

CONSTRUCTION LAYOUT
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-0006
CORRECTED:	DATE:	
VERIFIED:	DATE:	

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PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

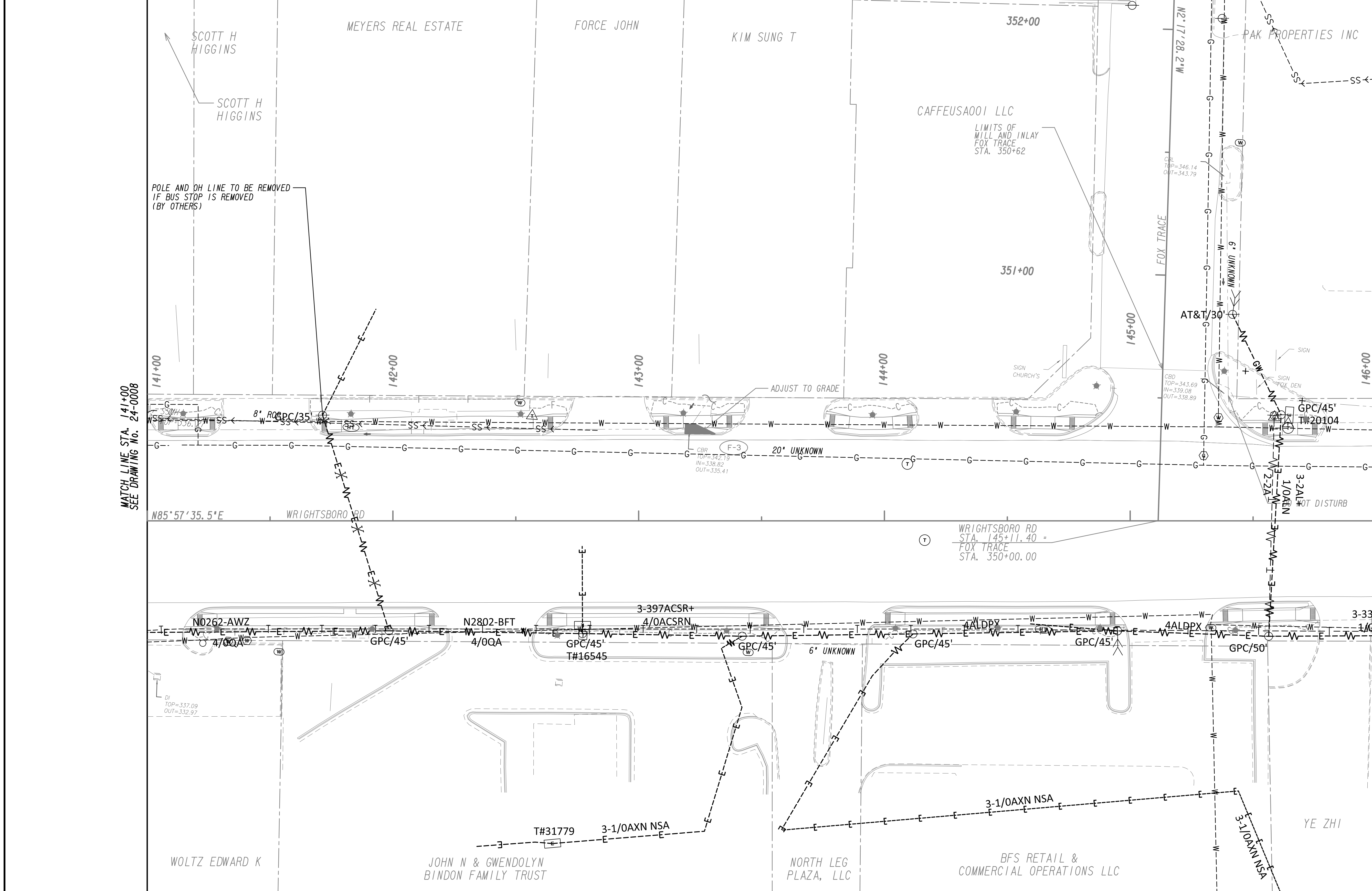
--- P ---
 --- C --- F ---
 BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

MAINLINE PLAN
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0017
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 141+00
SEE DRAWING NO. 24-0008

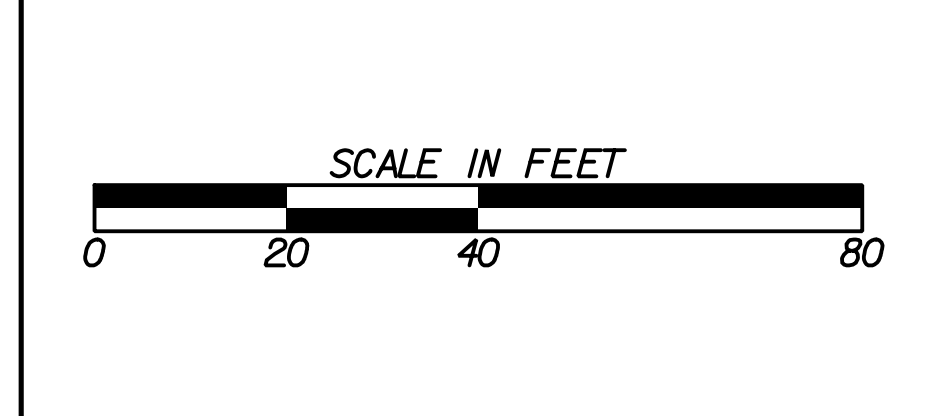
MATCH LINE STA. 146+00
SEE DRAWING NO. 24-0010

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

--- P --- BEGIN LIMIT OF ACCESS.....BLA
 --- ELA --- END LIMIT OF ACCESS.....ELA
 --- G --- F --- LIMIT OF ACCESS
 --- III --- III --- REQ'D R/W & LIMIT OF ACCESS
 --- ■ --- ■ --- ORANGE BARRIER FENCE
 --- ● --- ● --- ESA - ENV. SENSITIVE AREA
 --- ▼ --- ▼ --- (SEE ERIT TABLE)

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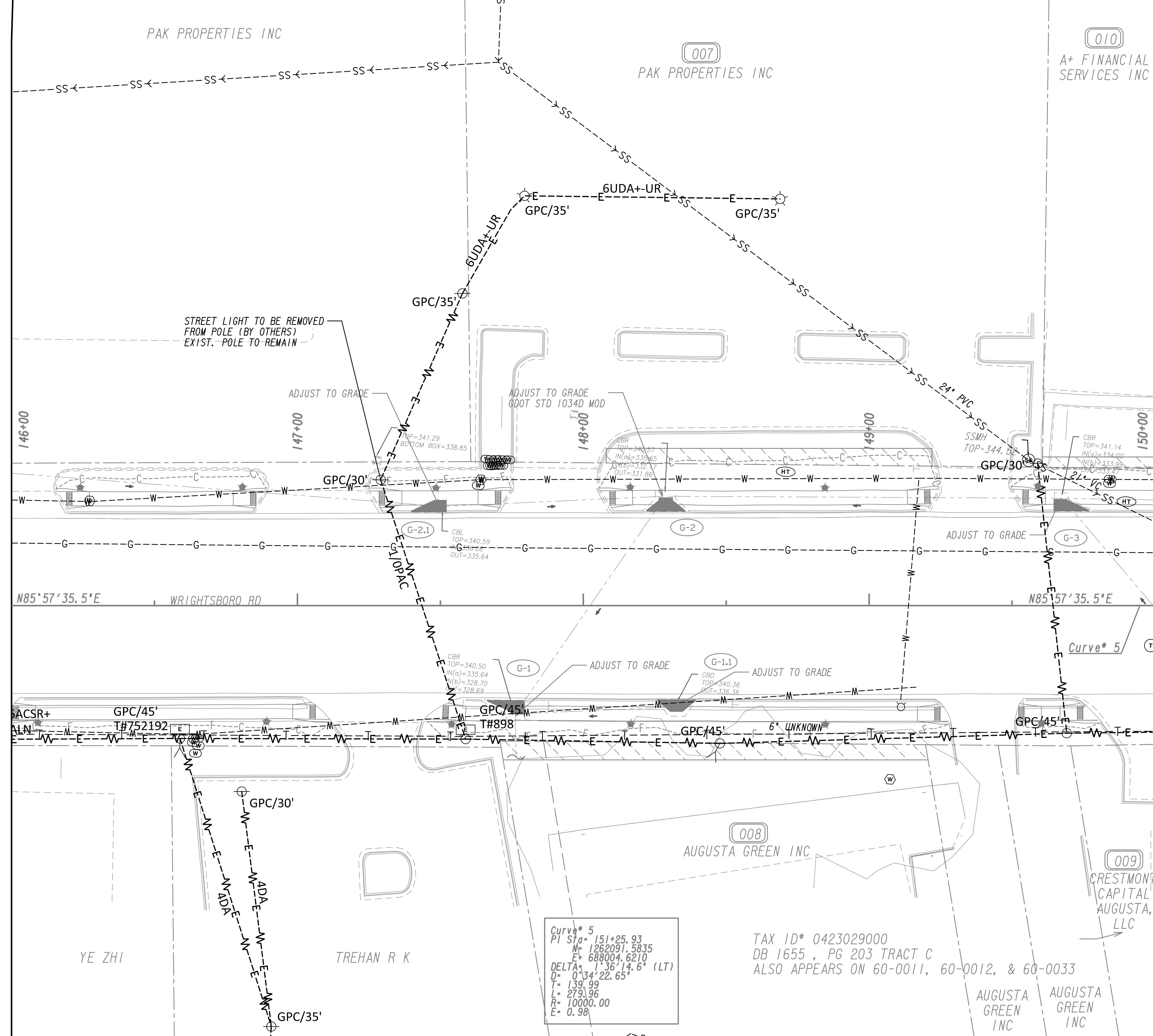
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12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No. 24-0009
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 146+00
SEE DRAWING NO. 24-0009

MATCH LINE STA. 150+00
SEE DRAWING NO. 24-0011



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA	
(SEE ERIT TABLE)	

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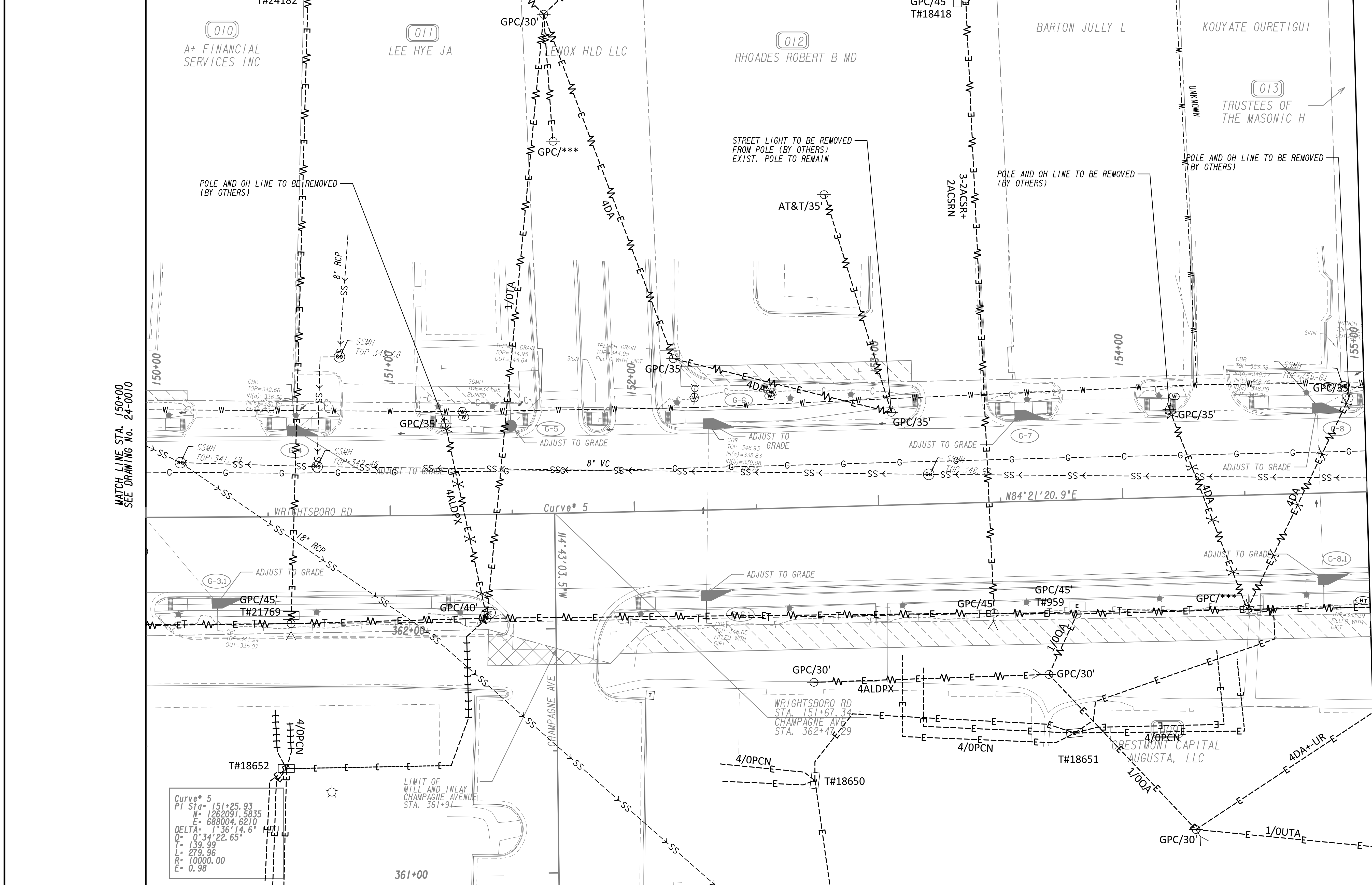
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SCALE IN FEET

REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 150+00
SEE DRAWING No. 24-0010

MATCH LINE STA. 155+00
SEE DRAWING No. 24-0012

Curve* 5
 PI Sta= 151+25.93
 N= 1262091.5835
 E= 688004.6210
 DELTA= 1°36'14.6"
 D= 0°34'22.65"
 T= 139.99
 L= 279.98
 R= 10000.00
 E= 0.98

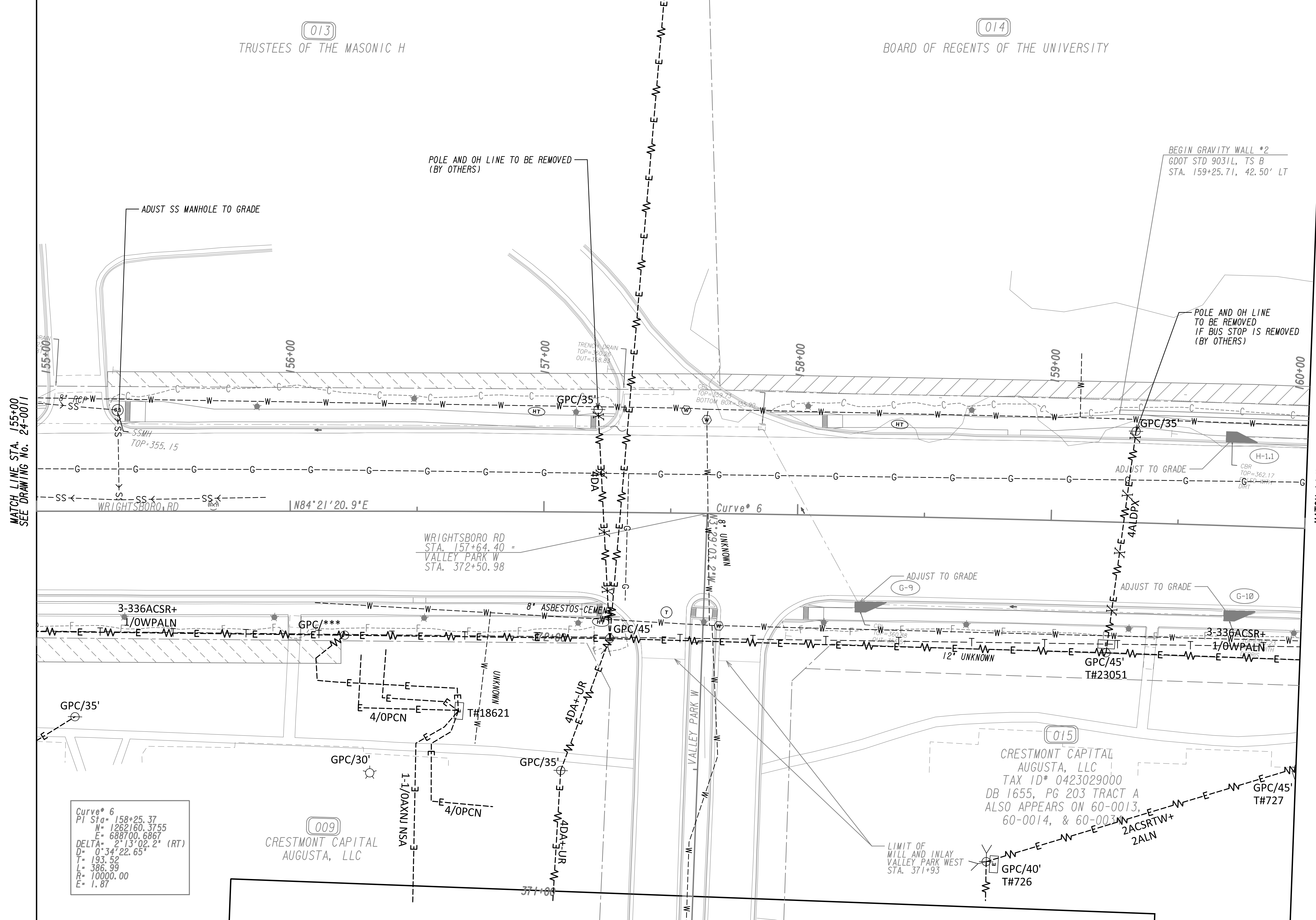
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No. 24-0011



MATCH LINE STA. 155+00
SEE DRAWING No. 24-0011

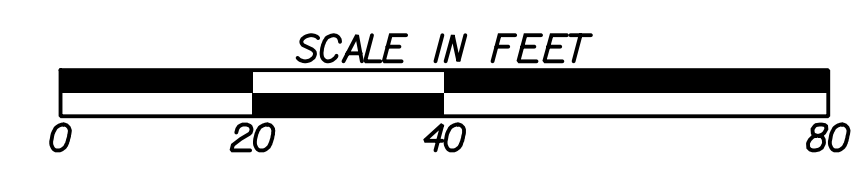
MATCH LINE STA. 160+00
SEE DRAWING No. 24-0013

Curve* 6
 PI Sta= 158+25.37
 N= 1262160.3755
 E= 688700.6867
 DELTA= 2°13'02.2" (RT)
 D= 0°34'22.65"
 L= 193.52
 R= 10000.00
 E= 1.87

CRESTMONT CAPITAL
 AUGUSTA, LLC
 TAX ID# 0423029000
 DB 1655, PG 203 TRACT A
 ALSO APPEARS ON 60-0013,
 60-0014, & 60-0031

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No. 24-0012
BACKCHECKED:	DATE:	
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VERIFIED:	DATE:	

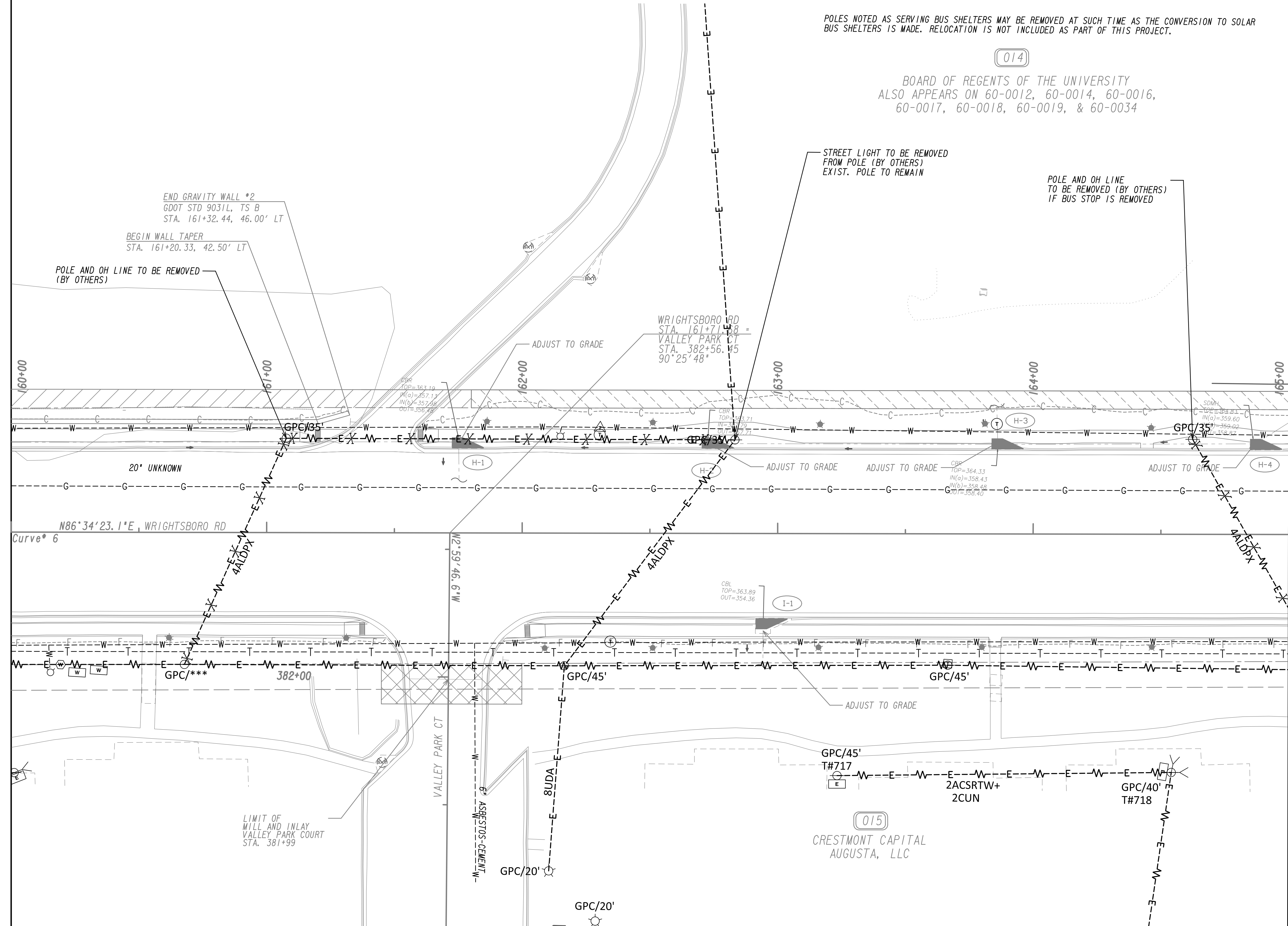
POLES NOTED AS SERVING BUS SHELTERS MAY BE REMOVED AT SUCH TIME AS THE CONVERSION TO SOLAR BUS SHELTERS IS MADE. RELOCATION IS NOT INCLUDED AS PART OF THIS PROJECT.

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 60-0017, 60-0018, 60-0019, & 60-0034

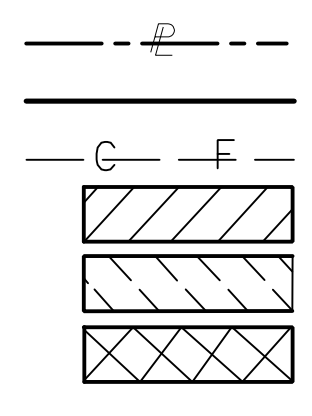


MATCH LINE STA. 160+00
 SEE DRAWING NO. 24-0012

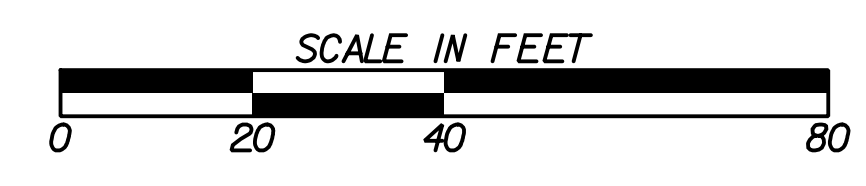
MATCH LINE STA. 165+00
 SEE DRAWING NO. 24-0014



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



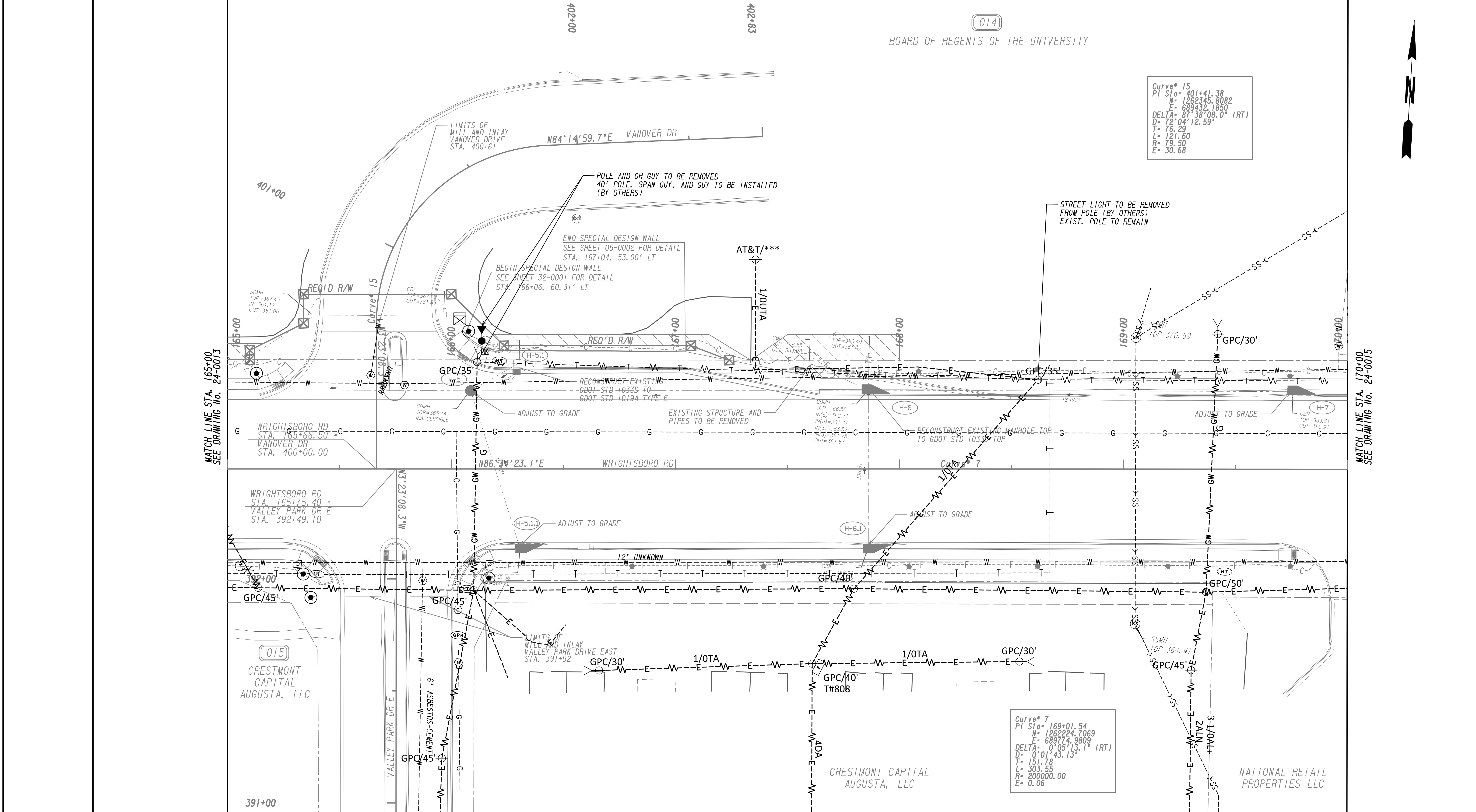
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0013
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve 15
 PI Sta= 401+41.38
 N= 1262345.8082
 E= 689432.1850
 DELTA= 87°38'08.0" (RT)
 D= 72°04'12.59"
 T= 76.29
 L= 121.60
 R= 19.50
 E= 30.68

Curve 7
 PI Sta= 169+01.54
 N= 1262224.7069
 E= 689174.9809
 DELTA= 0°05'13.1" (RT)
 D= 0°01'43.13"
 T= 151.78
 L= 303.55
 R= 200000.00
 E= 0.06

MATCH LINE STA. 165+00
SEE DRAWING NO. 24-0013

MATCH LINE STA. 170+00
SEE DRAWING NO. 24-0015

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



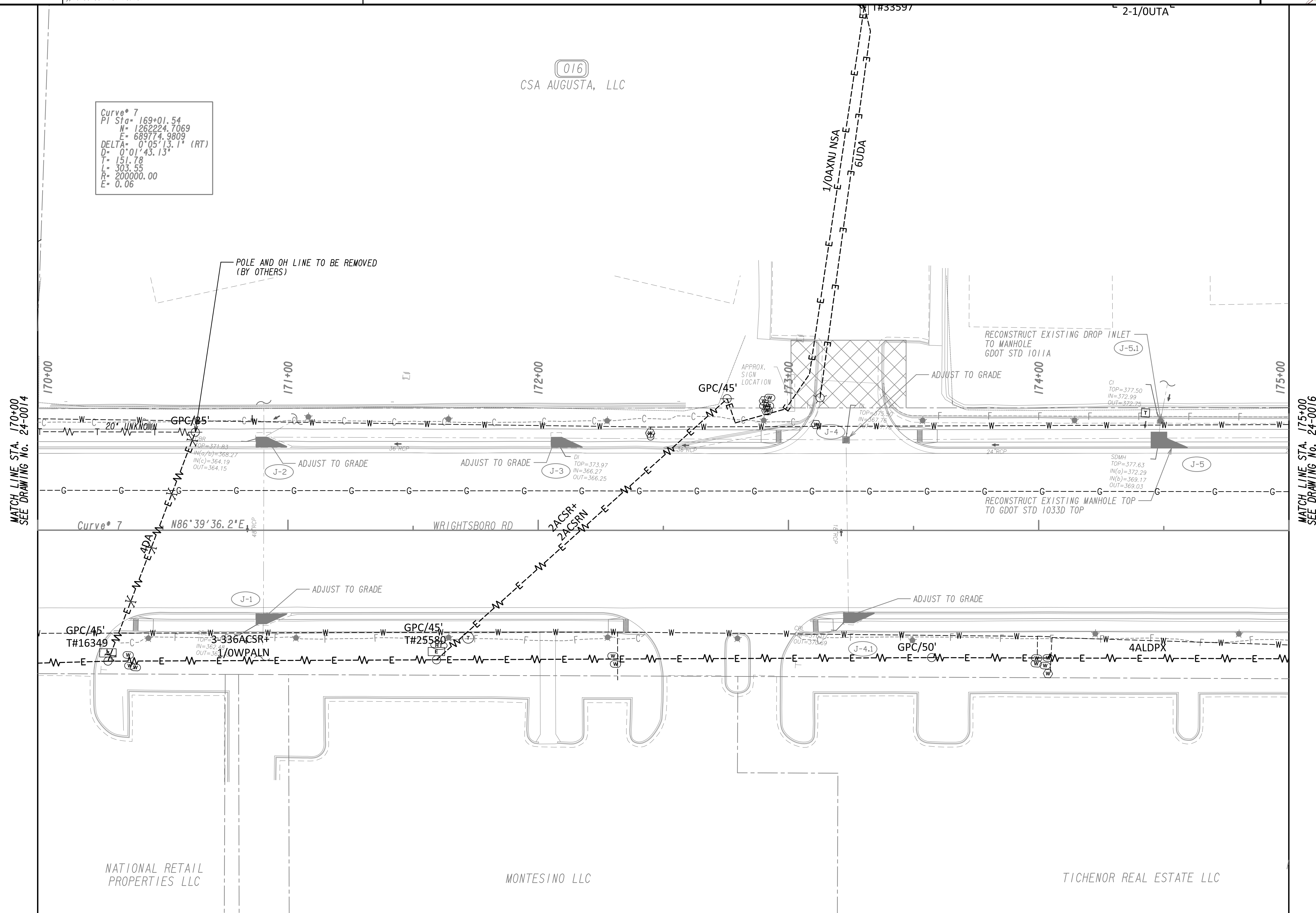
REVISION DATES	
12-21-22	

UTILITY PLANS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No. 24-0014



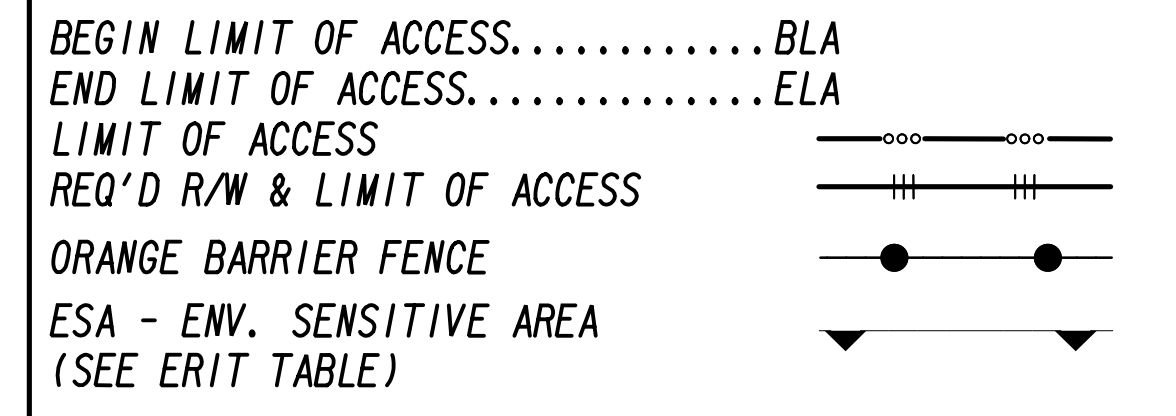
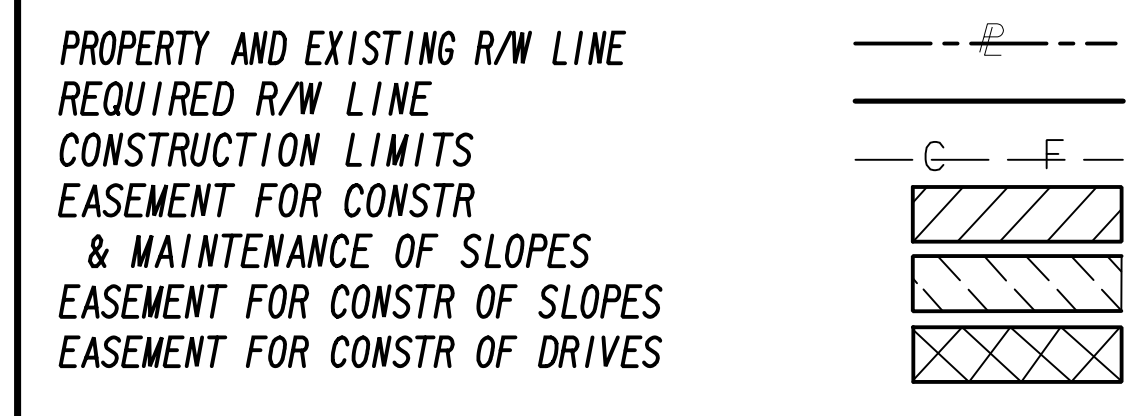
016
 CSA AUGUSTA, LLC

Curve # 7
 PI Sta = 169+01.54
 N = 1262224.7069
 E = 689774.9809
 DELTA = 0° 05' 13.1" (RT)
 D = 0° 01' 43.13"
 T = 151.78
 L = 303.55
 R = 200000.00
 E = 0.06



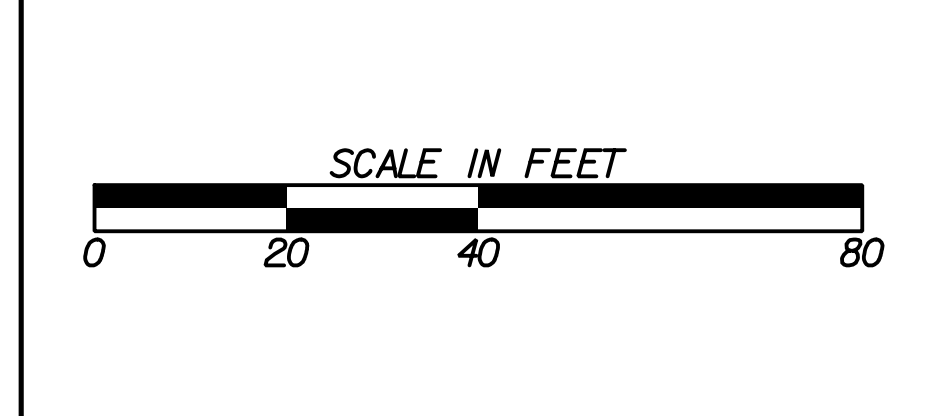
MATCH LINE STA. 170+00
SEE DRAWING NO. 24-0014

MATCH LINE STA. 175+00
SEE DRAWING NO. 24-0016



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REVISION DATES

NO.	DATE	DESCRIPTION
12-21-22		

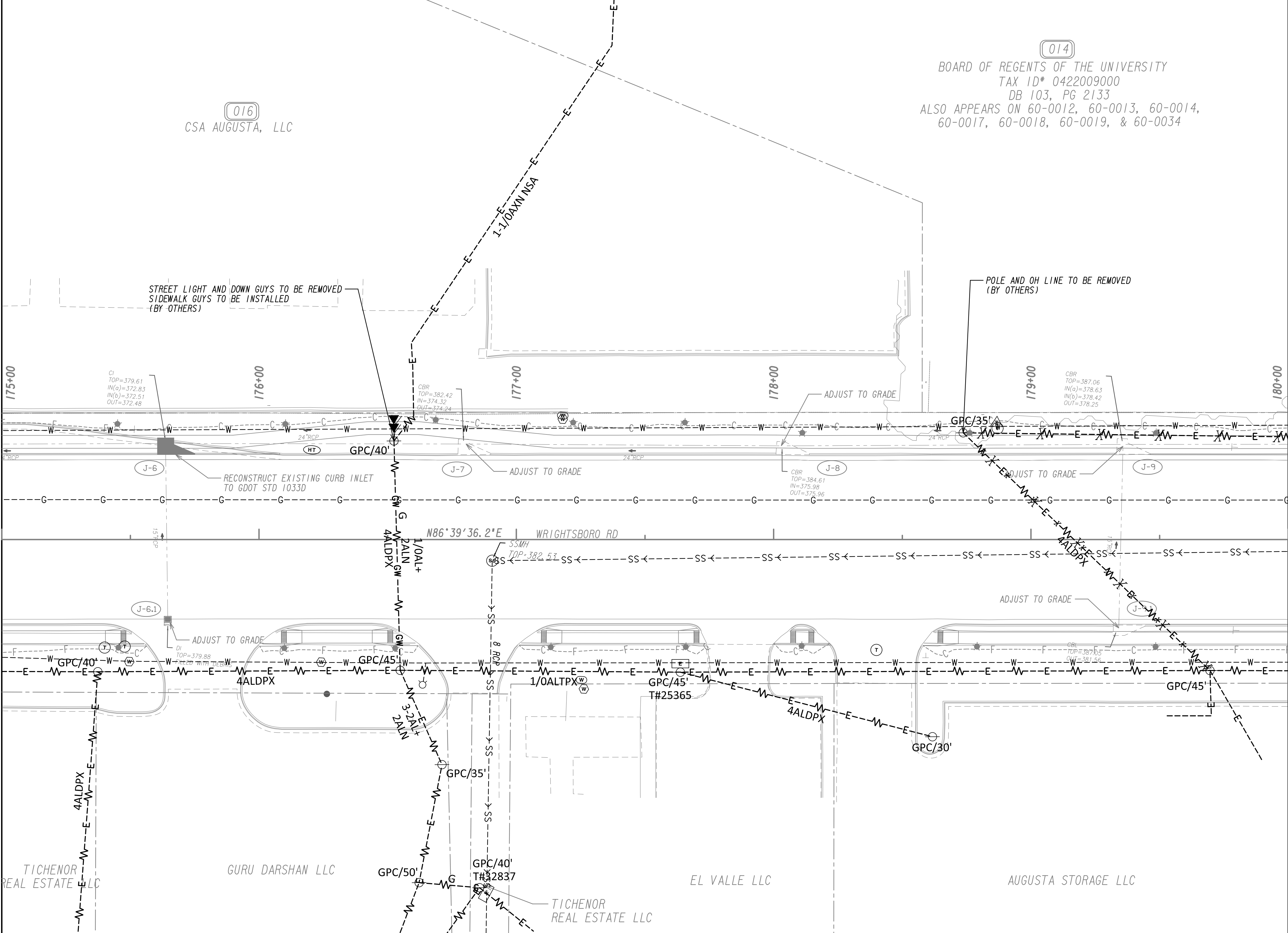
UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0015
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 175+00
SEE DRAWING NO. 24-0015

MATCH LINE STA. 180+00
SEE DRAWING NO. 24-0017



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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



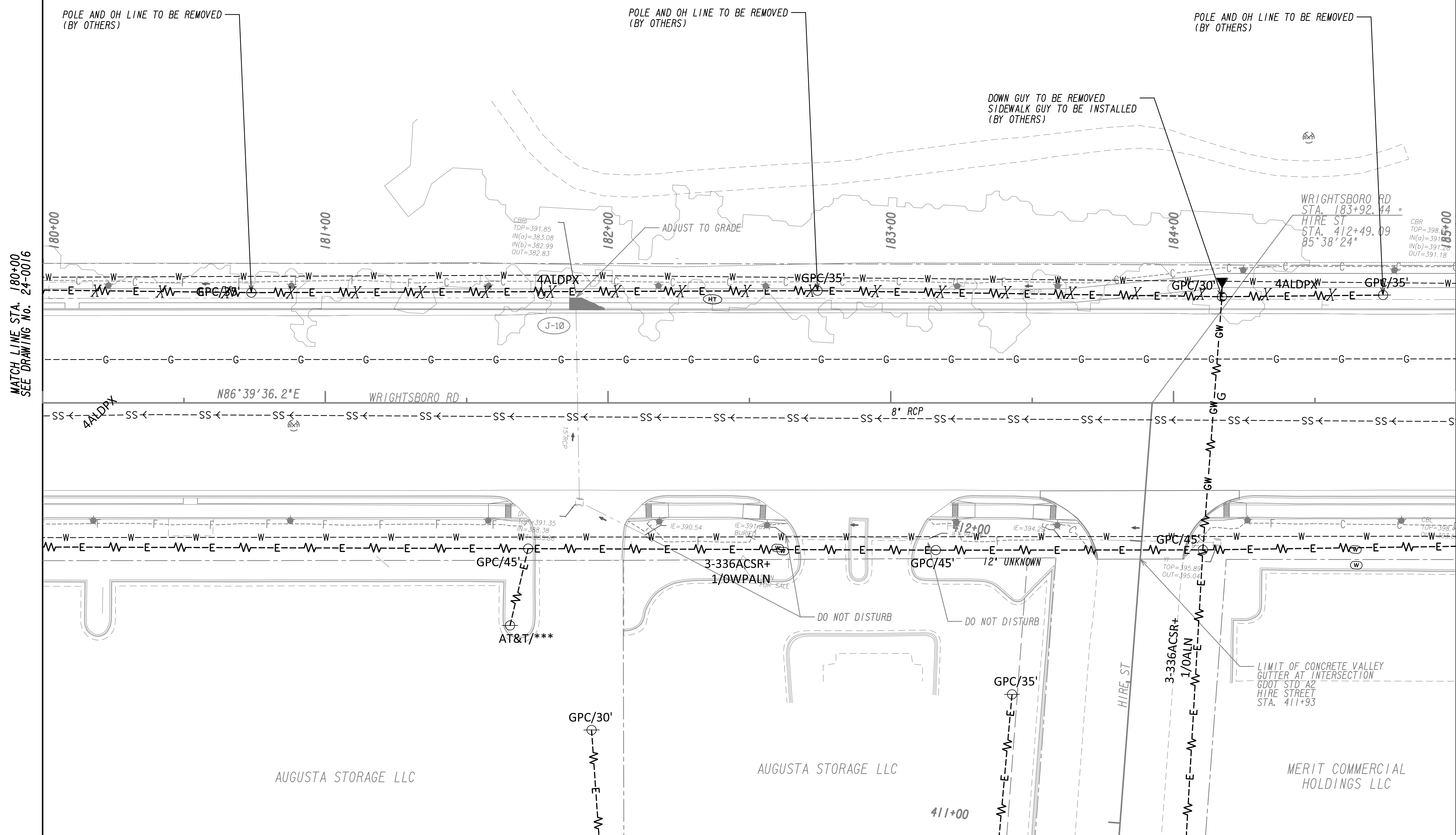
REVISION DATES	
12-21-22	

UTILITY PLANS
WRIGHTSBORO RD RECONSTRUCTION
AND PEDESTRIAN IMPROVEMENTS
FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0016
CORRECTED:	DATE:	
VERIFIED:	DATE:	

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 60-0016, 60-0018, 60-0019, & 60-0034



MATCH LINE STA. 180+00
SEE DRAWING No. 24-0016

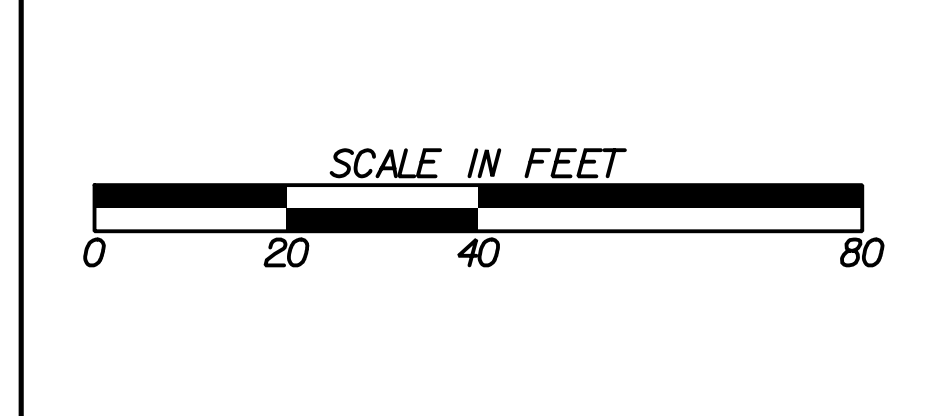
MATCH LINE STA. 185+00
SEE DRAWING No. 24-0018

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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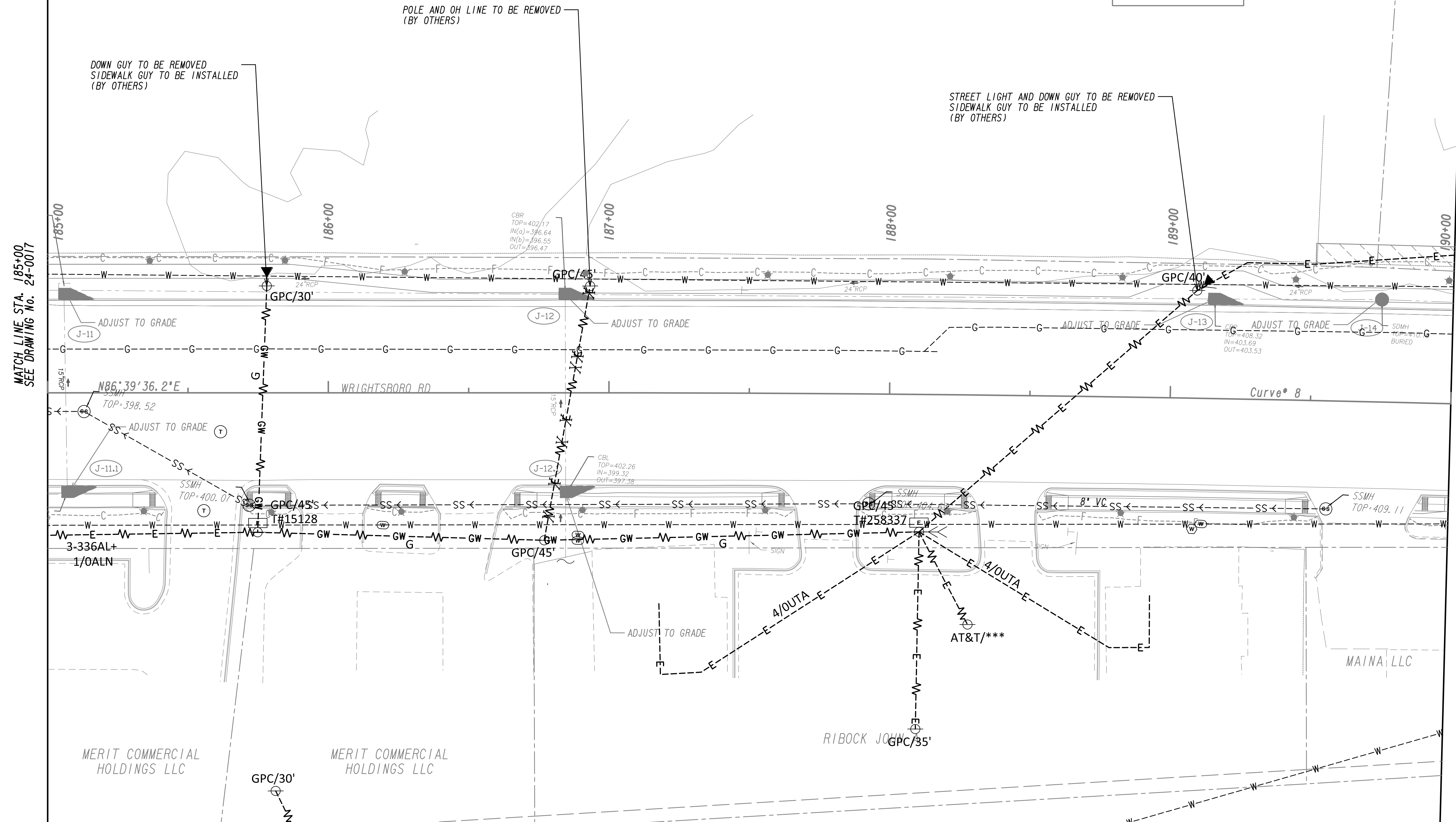
UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0017
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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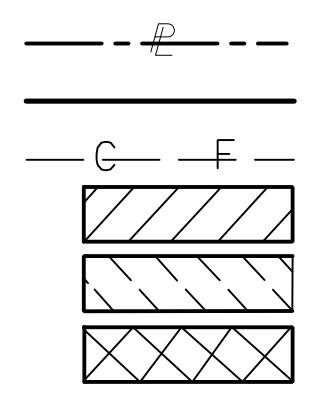
Curve* 8
PI Sta= 191+34.33
W= 1262354.7895
E= 692003.9739
DELTA= 4°12'12.3" (RT)
D= 0°28'38.87"
T= 440.38
L= 880.36
R= 12000.00
E= 8.08



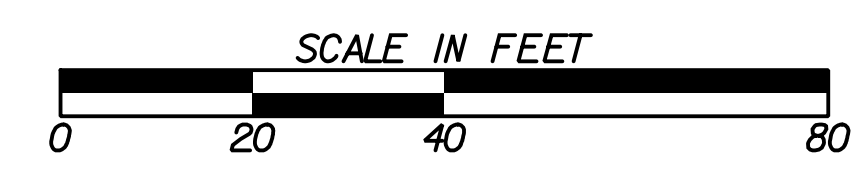
MATCH LINE STA. 185+00
SEE DRAWING NO. 24-0017

MATCH LINE STA. 190+00
SEE DRAWING NO. 24-0019

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

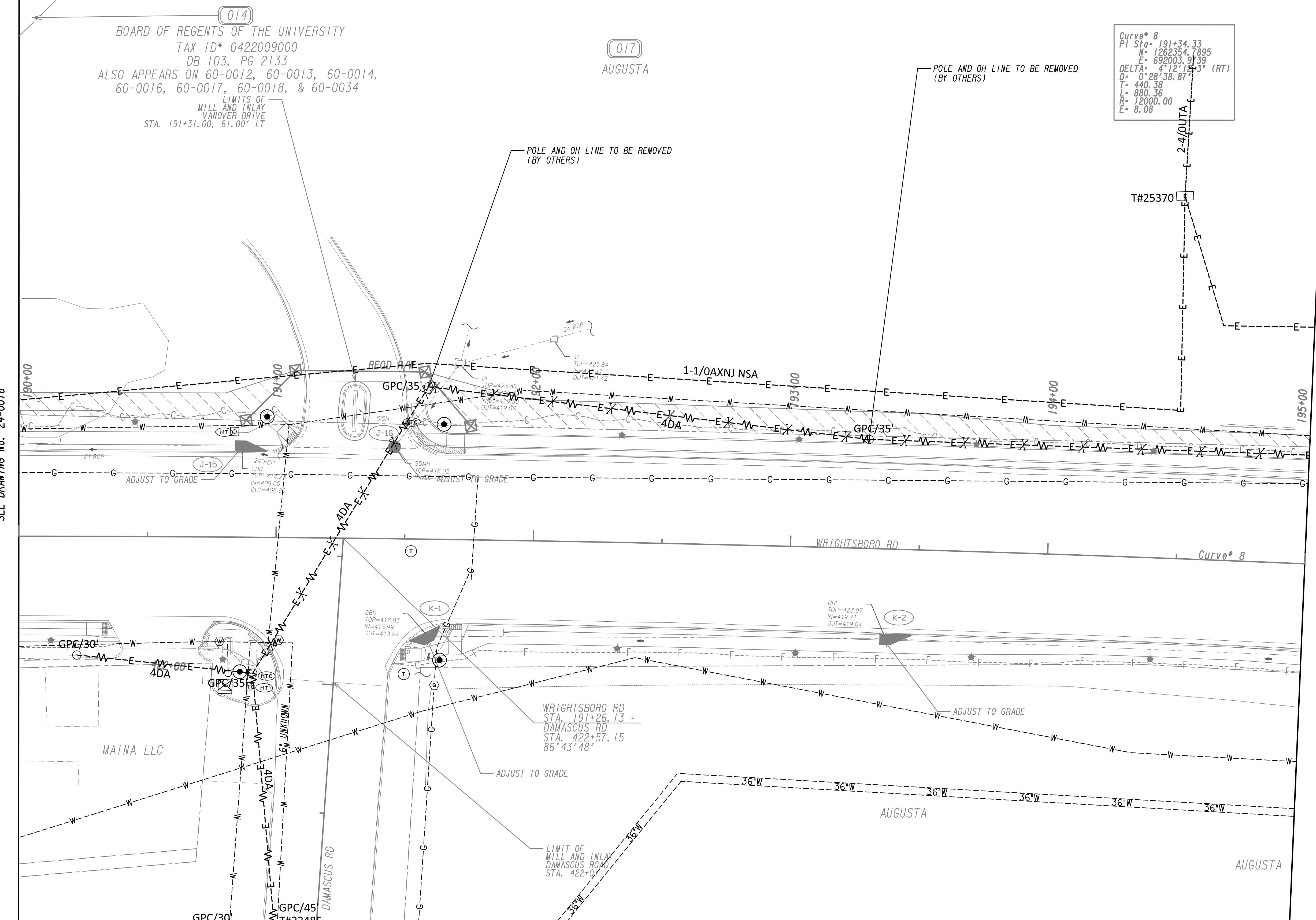


BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0018	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

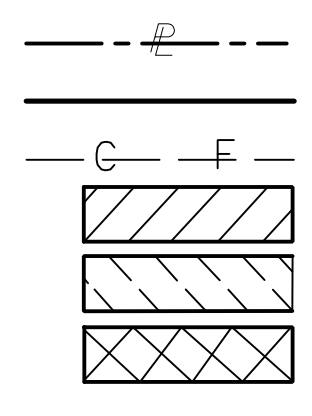


Curve* 8
 PI Sta= 191+34.33
 N= 1262354.7895
 E= 692003.9739
 DELTA= 2°12'24.31" (RT)
 D= 0°28'38.87"
 L= 440.38
 R= 880.36
 E= 12000.00
 E= 8.08

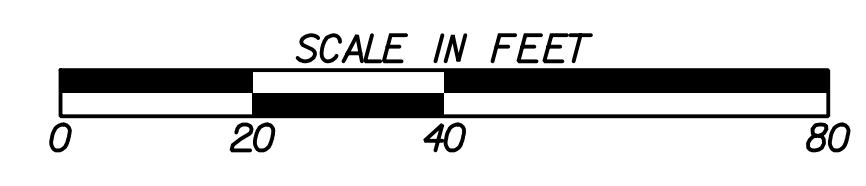
MATCH LINE STA. 190+00
SEE DRAWING NO. 24-0018

MATCH LINE STA. 195+00
SEE DRAWING NO. 24-0020

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



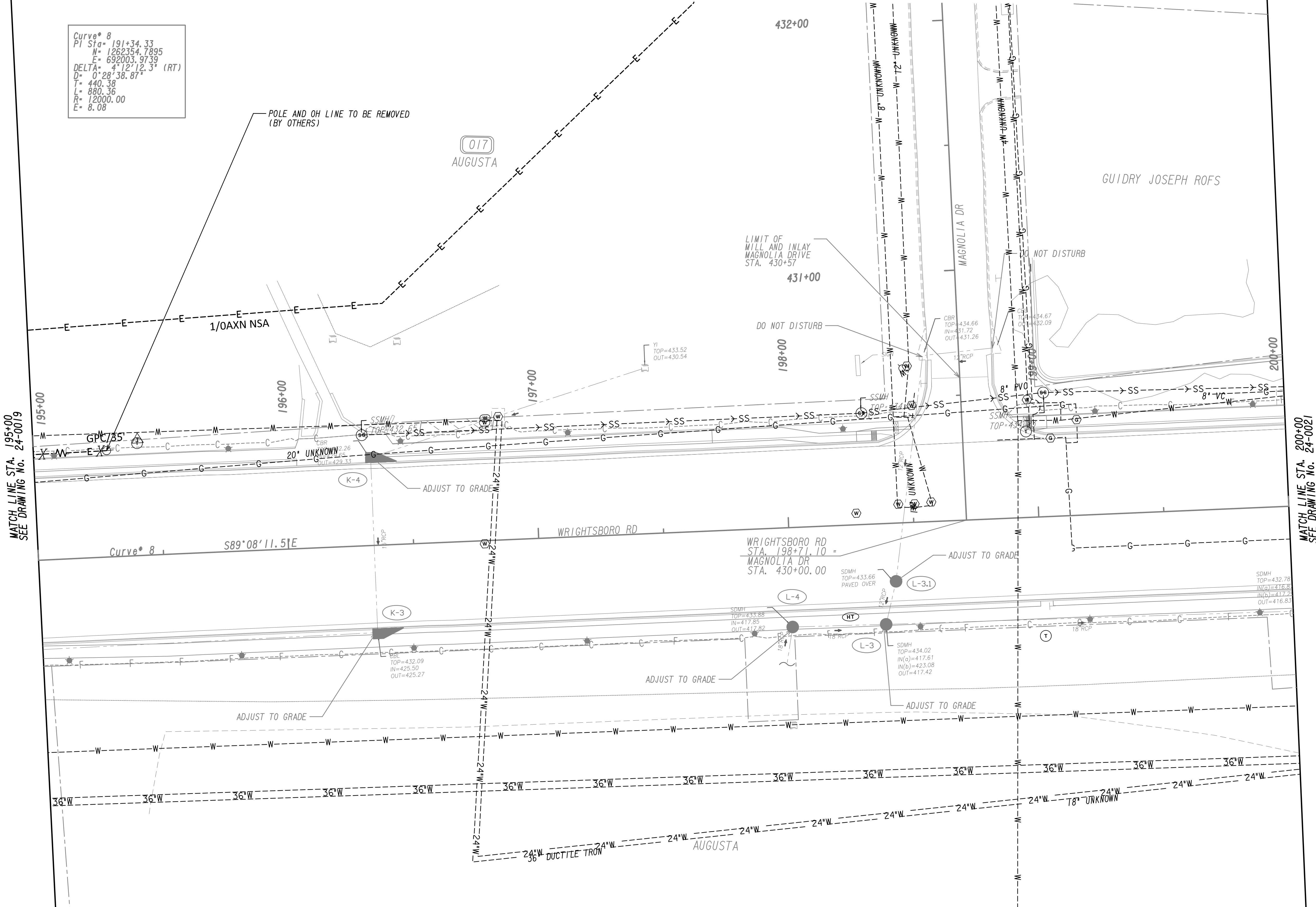
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0019	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Curve* 8
 PI Sta= 191+34.33
 N= 1262354.7895
 E= 692003.9739
 DELTA= 4°12'12.3" (RT)
 D= 0°28'38.87"
 L= 440.38
 R= 880.36
 E= 12000.00
 E= 8.08



MATCH LINE STA. 195+00
 SEE DRAWING No. 24-0019

MATCH LINE STA. 200+00
 SEE DRAWING No. 24-0021

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

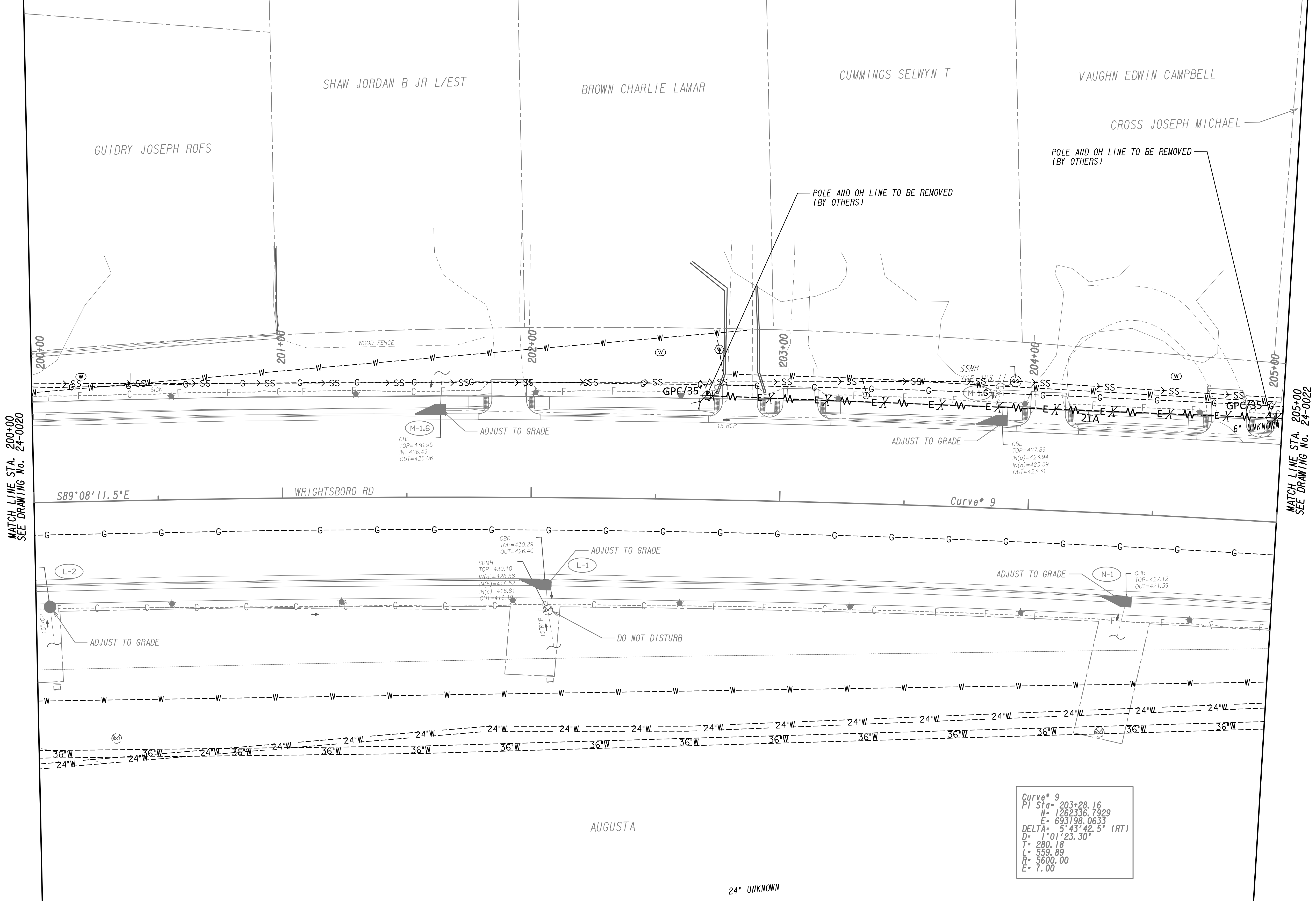
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

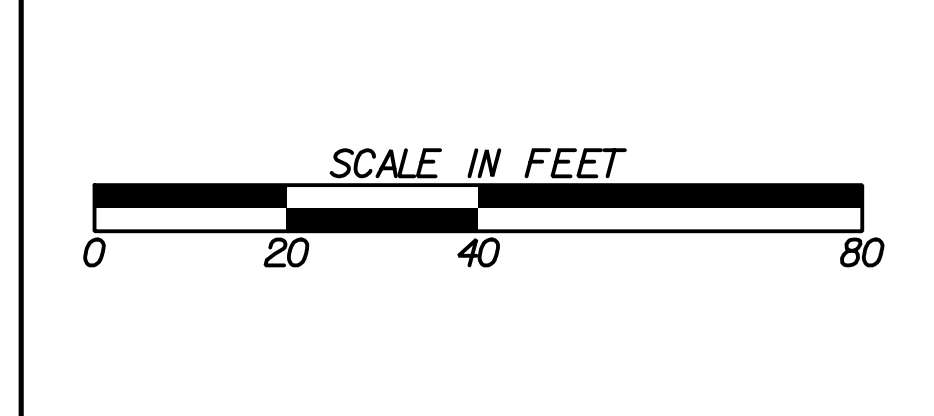
UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0020
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

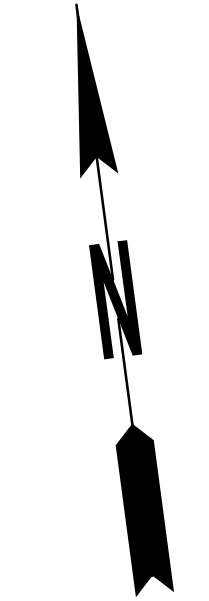
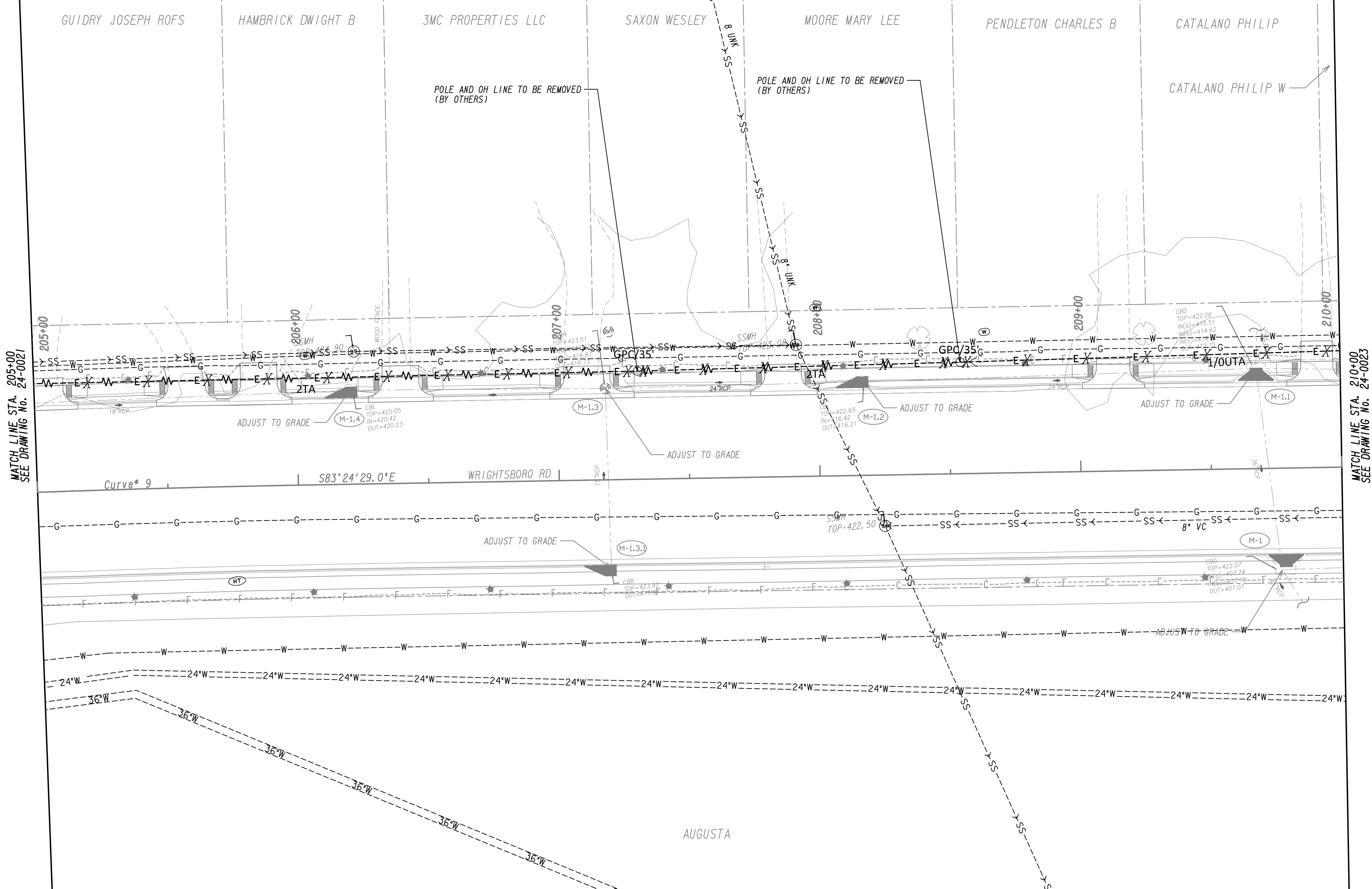
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

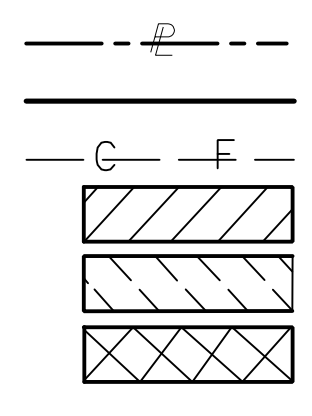
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0021
CORRECTED:	DATE:	
VERIFIED:	DATE:	



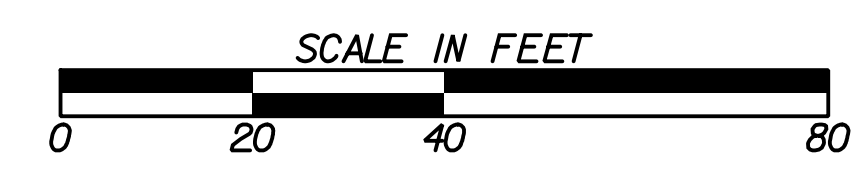
MATCH LINE STA. 205+00
SEE DRAWING NO. 24-0021

MATCH LINE STA. 210+00
SEE DRAWING NO. 24-0023

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



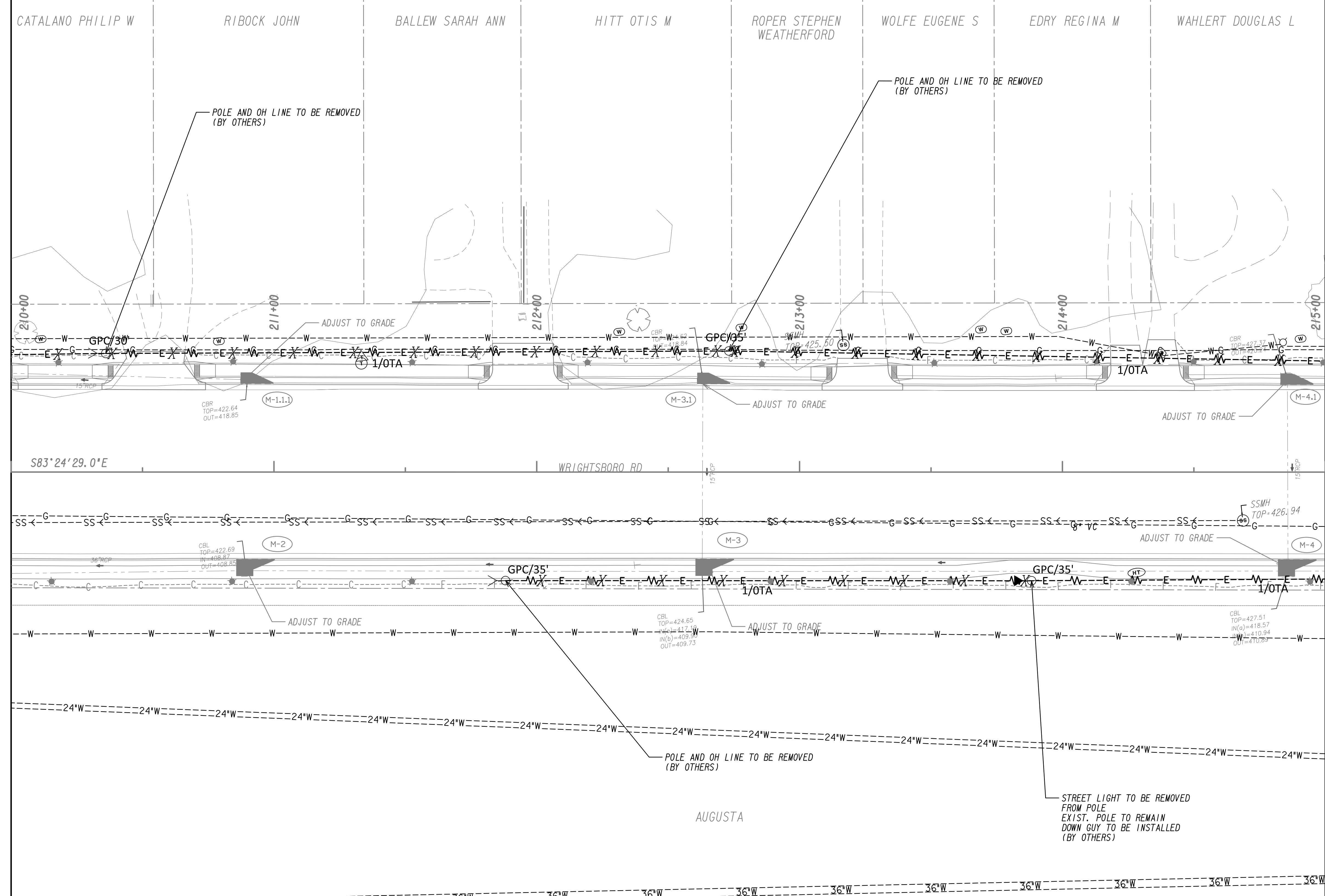
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

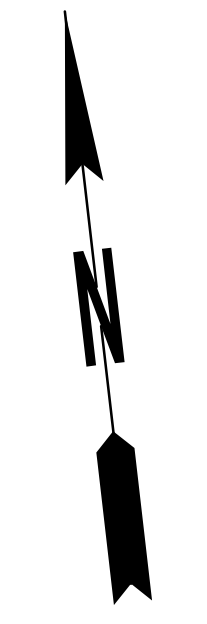
UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0022
CORRECTED:	DATE:	
VERIFIED:	DATE:	

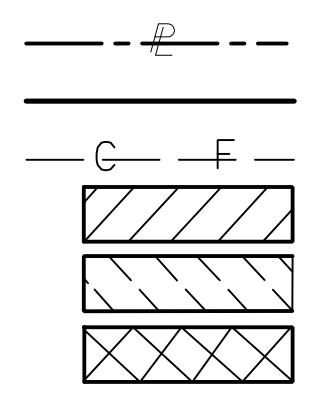


MATCH LINE STA. 210+00
SEE DRAWING NO. 24-0022

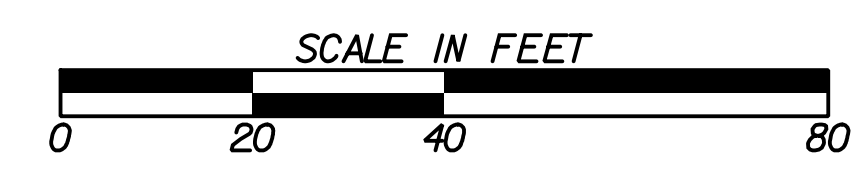
MATCH LINE STA. 215+00
SEE DRAWING NO. 24-0024



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

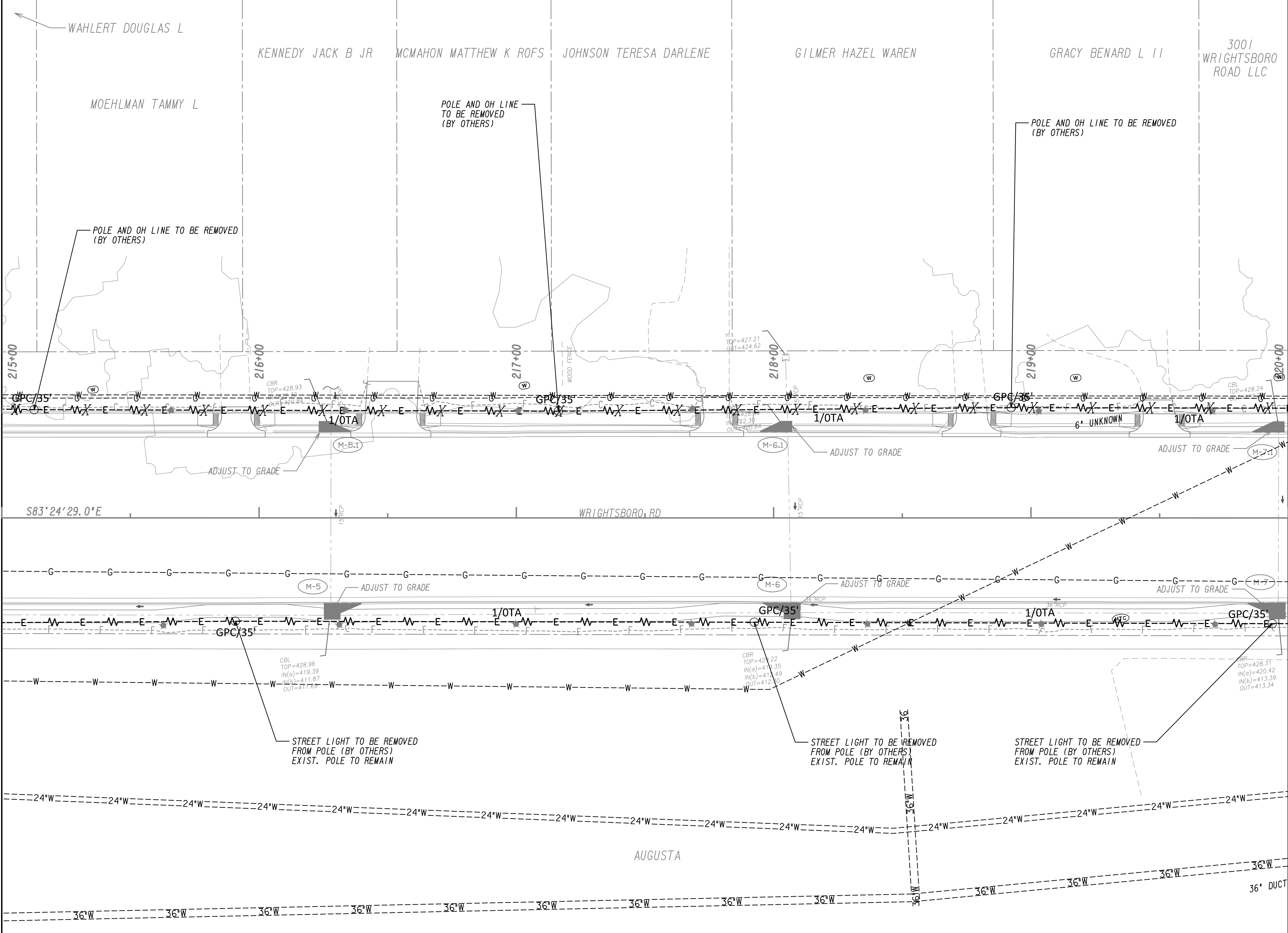


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No.
			24-0023



MATCH LINE STA. 215+00
SEE DRAWING No. 24-0023

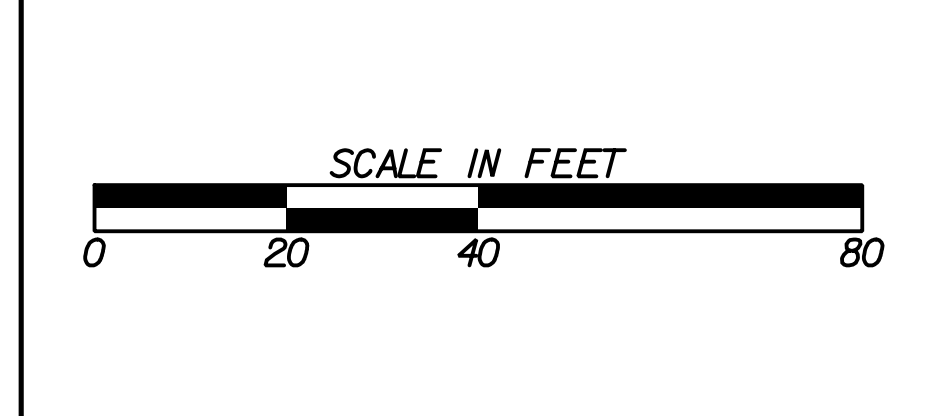
MATCH LINE STA. 220+00
SEE DRAWING No. 24-0025

<p>PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES</p>	
---	--

<p>BEGIN LIMIT OF ACCESS.....BLA END LIMIT OF ACCESS.....ELA LIMIT OF ACCESS REQ'D R/W & LIMIT OF ACCESS ORANGE BARRIER FENCE ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)</p>	
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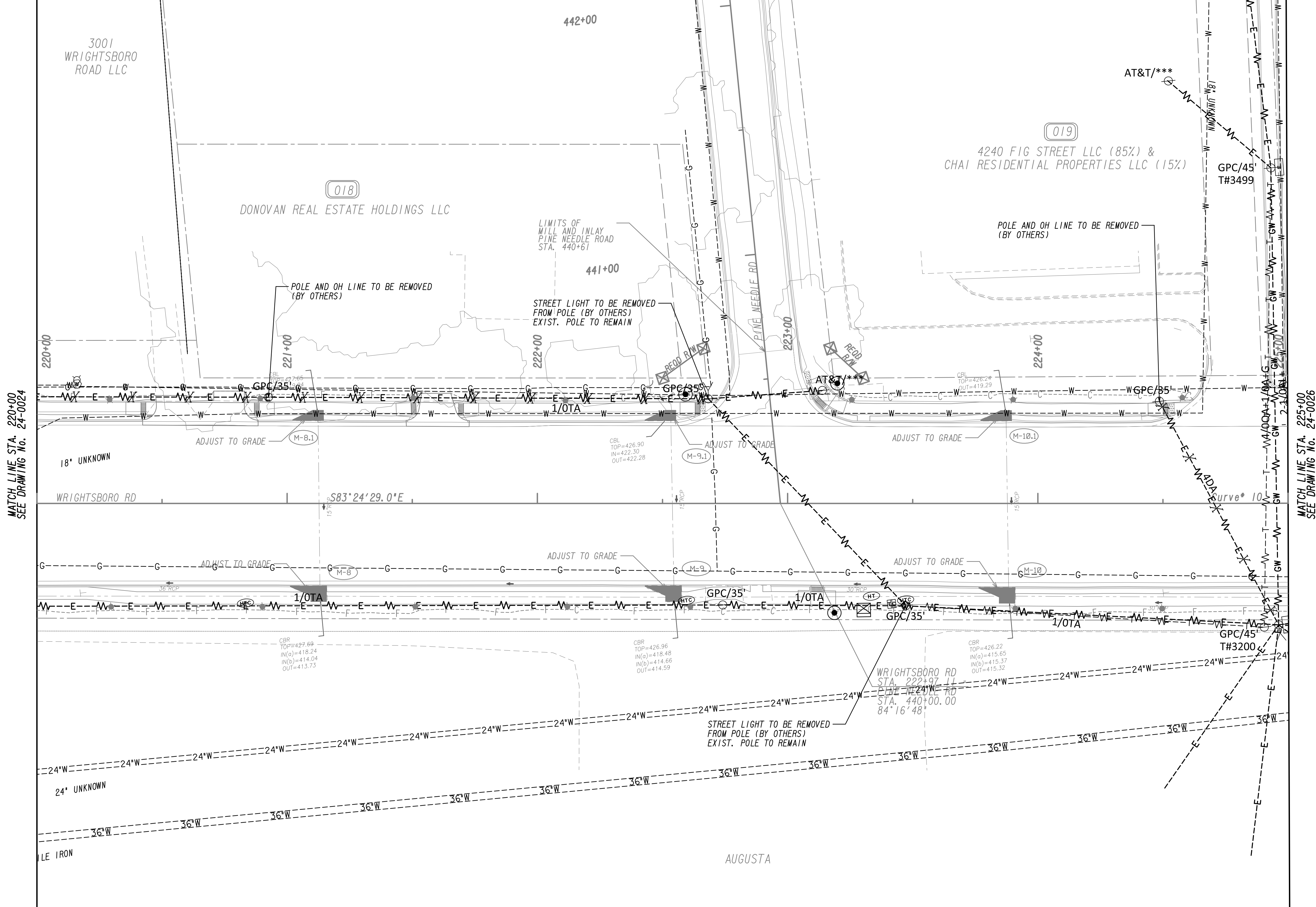
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REVISION DATES	
12-21-22	

<p>UTILITY PLANS WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE</p>			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0024	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 220+00
SEE DRAWING NO. 24-0024

MATCH LINE STA. 225+00
SEE DRAWING NO. 24-0026



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

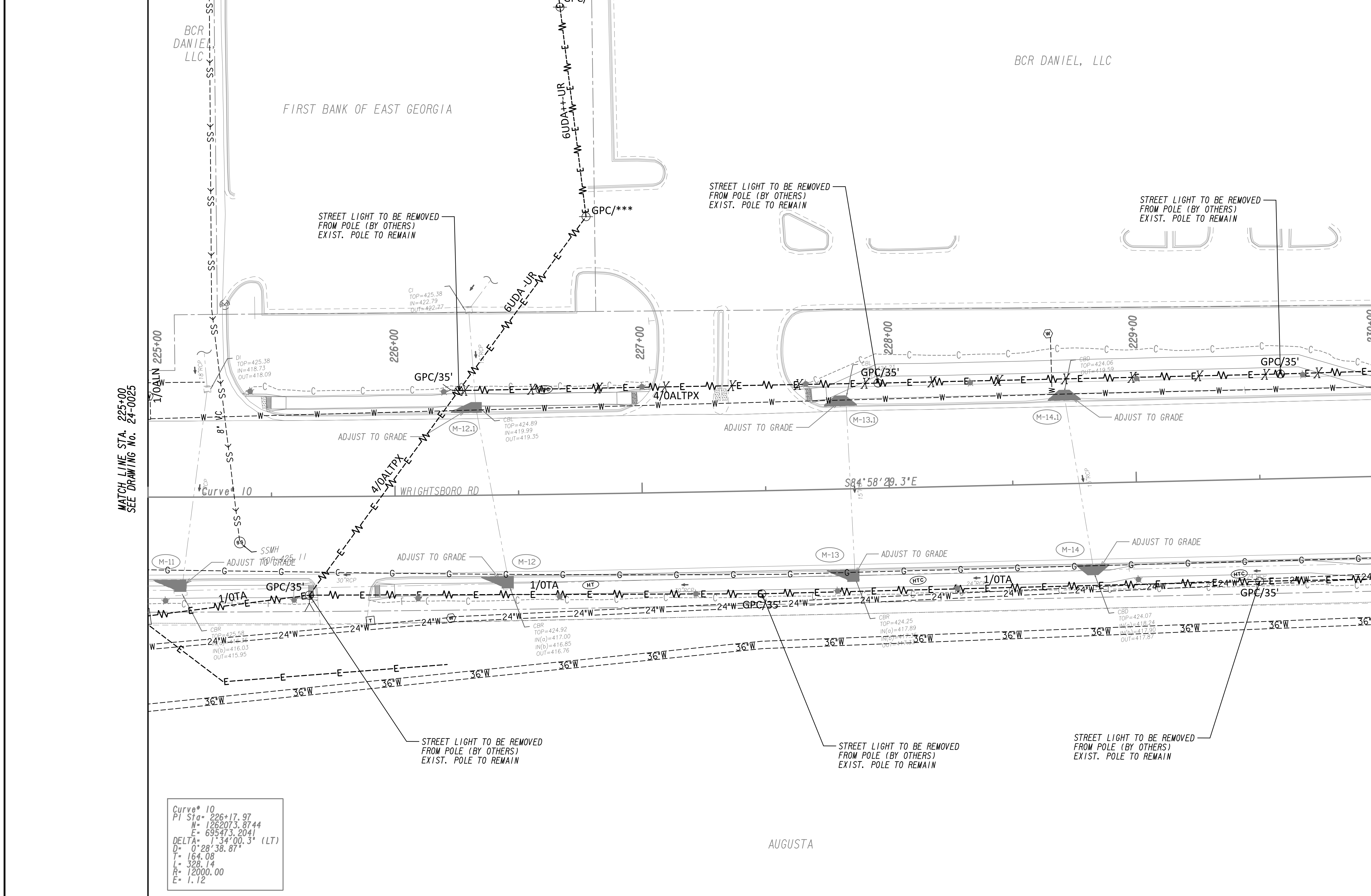
— P — BEGIN LIMIT OF ACCESS.....BLA
 — G — F — END LIMIT OF ACCESS.....ELA
 — C — F — LIMIT OF ACCESS
 — H — H — REQ'D R/W & LIMIT OF ACCESS
 — ● — ● — ORANGE BARRIER FENCE
 — X — X — ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0025
CORRECTED:	DATE:	
VERIFIED:	DATE:	



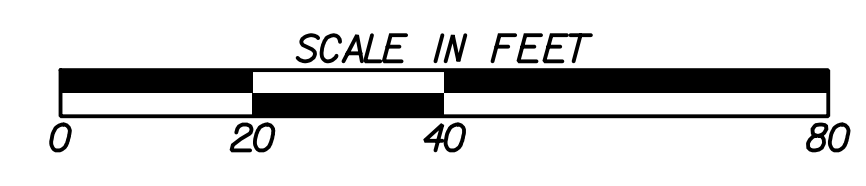
MATCH LINE STA. 225+00
SEE DRAWING NO. 24-0025

MATCH LINE STA. 230+00
SEE DRAWING NO. 24-0027

Curve # 10
 PI Sta = 226+17.97
 N = 1262073.8744
 E = 695473.2041
 DELTA = 1°34'00.3" (LT)
 D = 0°28'38.87"
 T = 164.08
 L = 328.14
 R = 12000.00
 E = 1.12

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

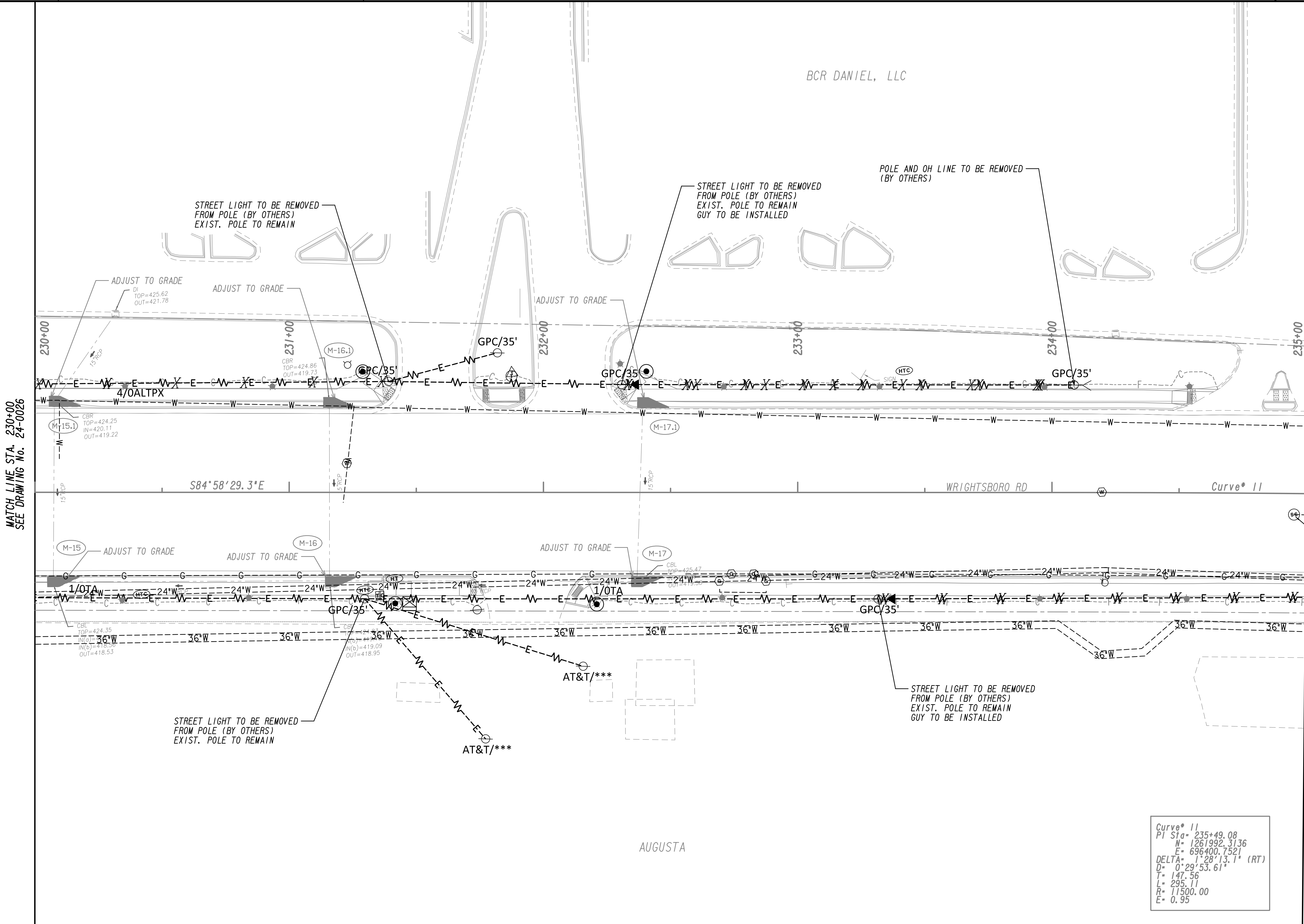
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

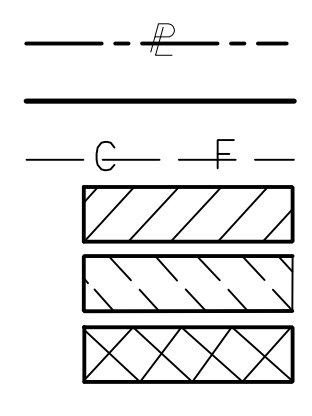
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0026
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 230+00
SEE DRAWING No. 24-0026

MATCH LINE STA. 235+00
SEE DRAWING No. 24-0028

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

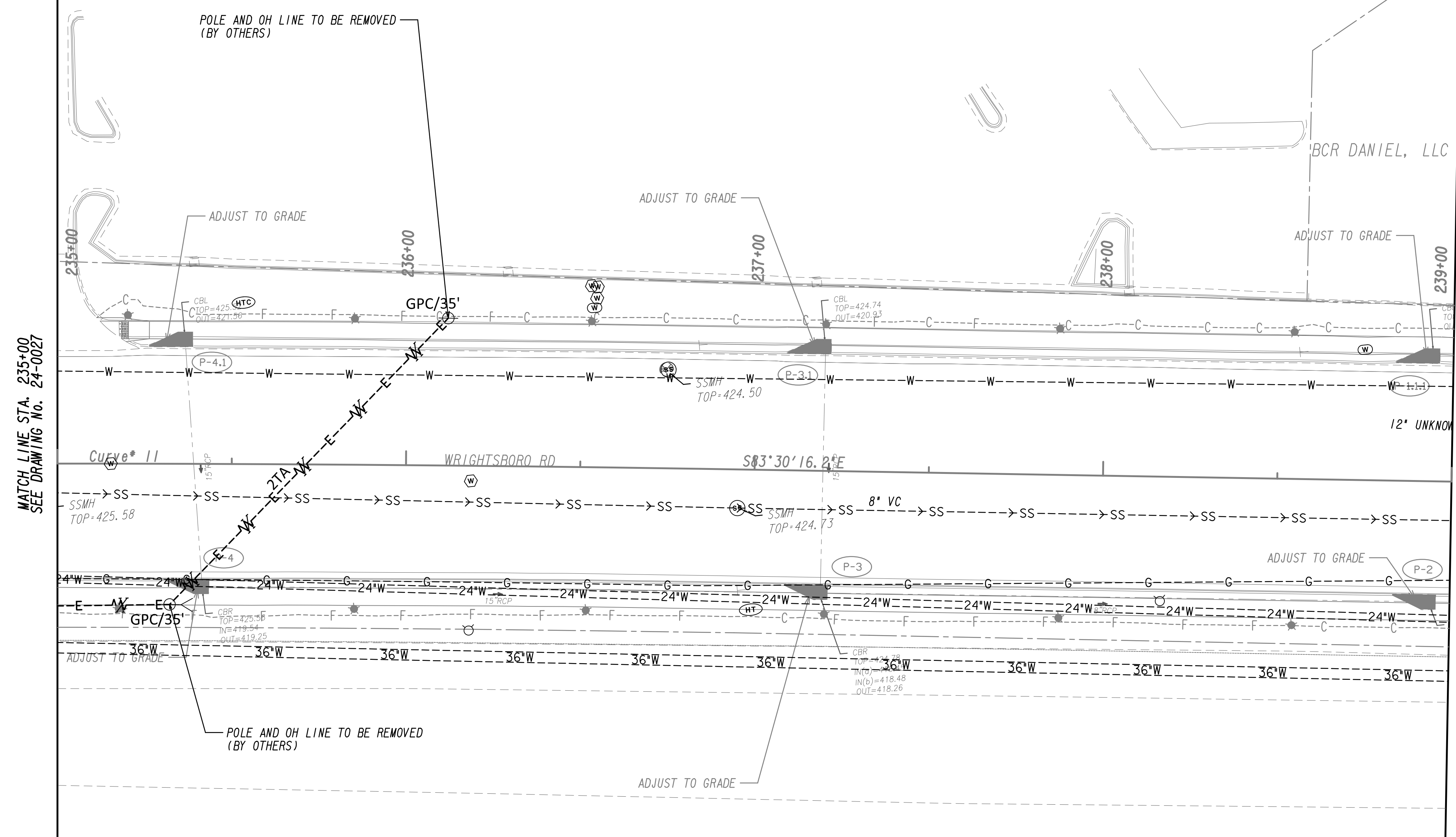
UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0027
CORRECTED:	DATE:	
VERIFIED:	DATE:	



BCR DANIEL, LLC

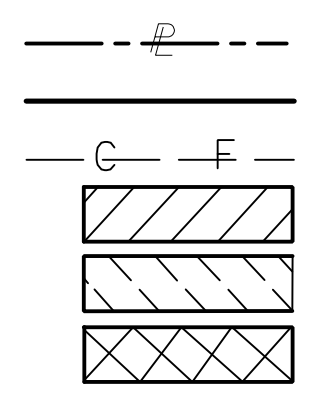
BCR DANIEL, LLC



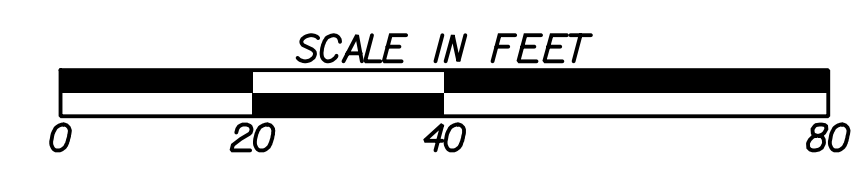
MATCH LINE STA. 235+00
SEE DRAWING No. 24-0027

MATCH LINE STA. 239+00
SEE DRAWING No. 24-0029

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



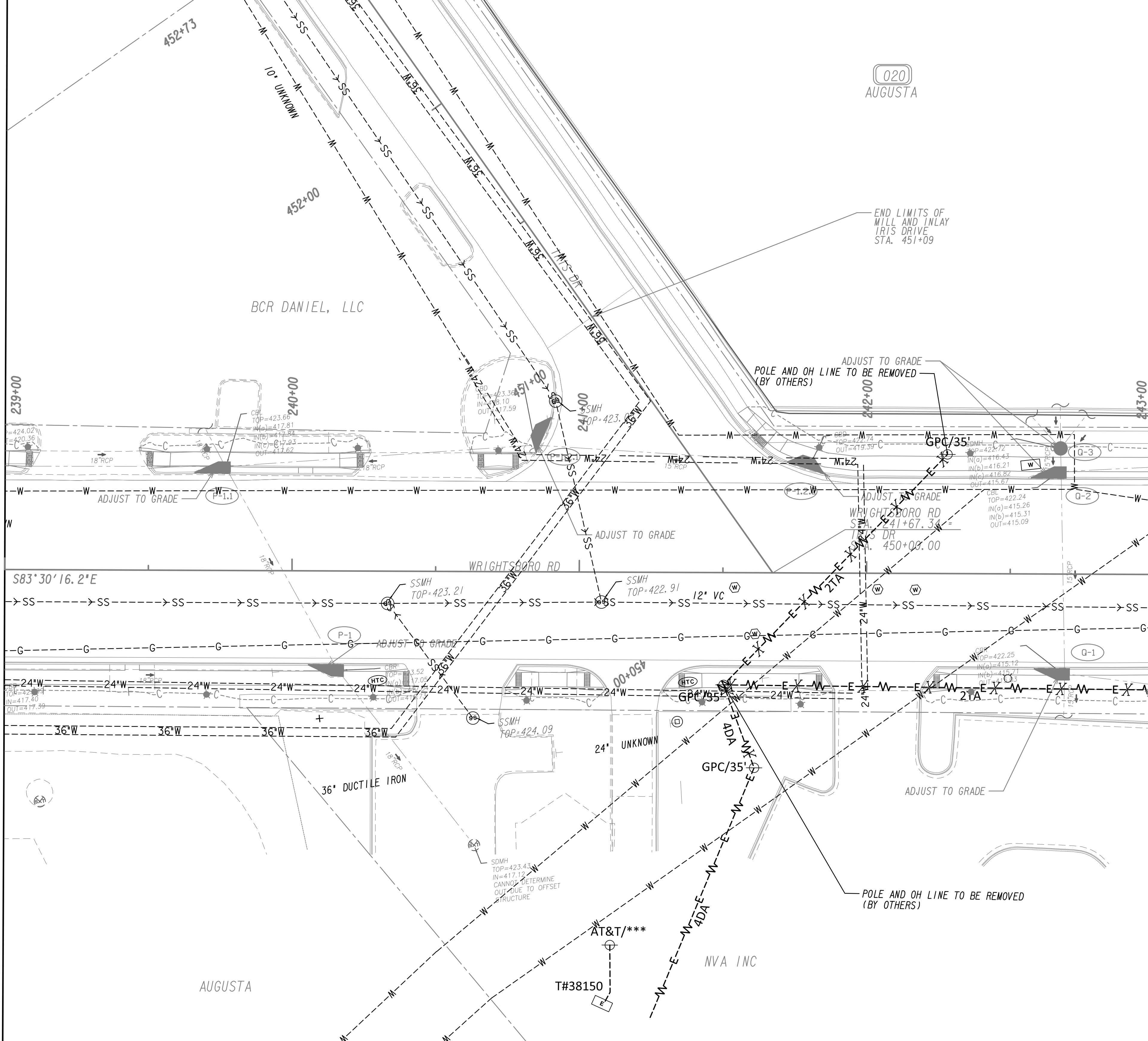
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0028
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 239+00
SEE DRAWING No. 24-002B

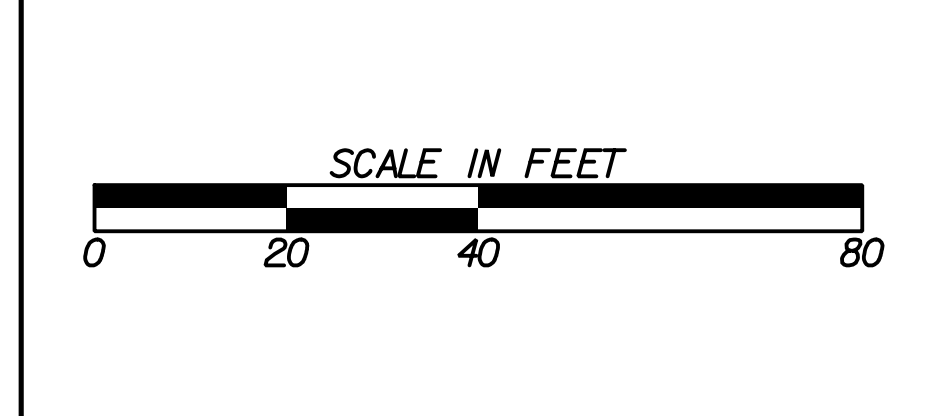
MATCH LINE STA. 243+00
SEE DRAWING No. 24-0030

<p>PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES</p>	
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<p>BEGIN LIMIT OF ACCESS.....BLA END LIMIT OF ACCESS.....ELA LIMIT OF ACCESS REQ'D R/W & LIMIT OF ACCESS ORANGE BARRIER FENCE ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)</p>	
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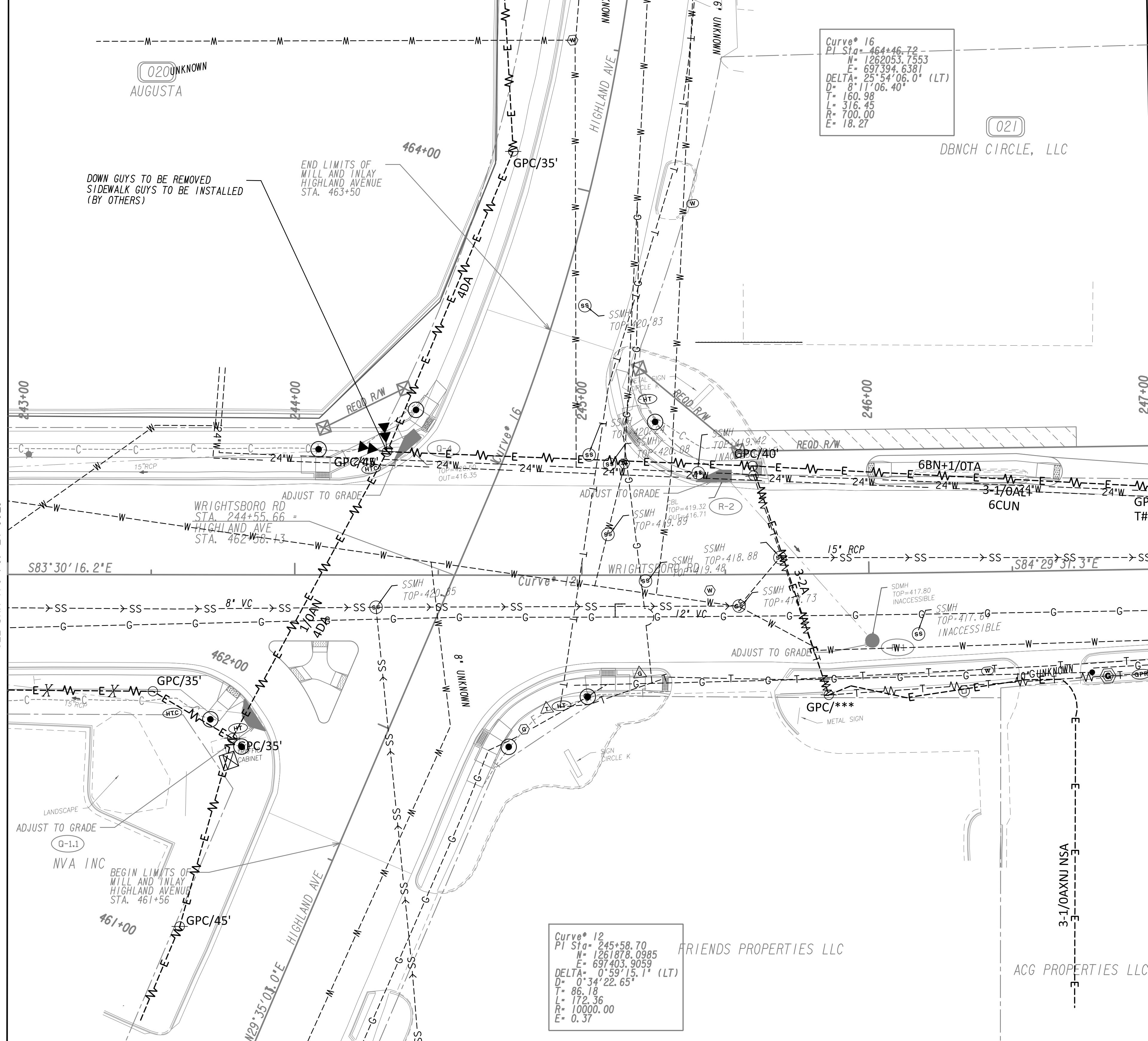
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REVISION DATES	
12-21-22	

UTILITY PLANS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0029	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



Curve* 16
 PI Sta= 464+46.72
 N= 1262053.7553
 E= 697394.6381
 DELTA= 25°54'06.0" (LT)
 D= 8'11"06.40"
 T= 160.98
 L= 316.45
 R= 700.00
 E= 18.27

Curve* 12
 PI Sta= 245+58.70
 N= 1261878.0985
 E= 697403.9059
 DELTA= 0°59'15.1" (LT)
 D= 0°34'22.65"
 T= 86.18
 L= 172.36
 R= 10000.00
 E= 0.37



MATCH LINE STA. 243+00
SEE DRAWING NO. 24-0029

MATCH LINE STA. 247+00
SEE DRAWING NO. 24-0031

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

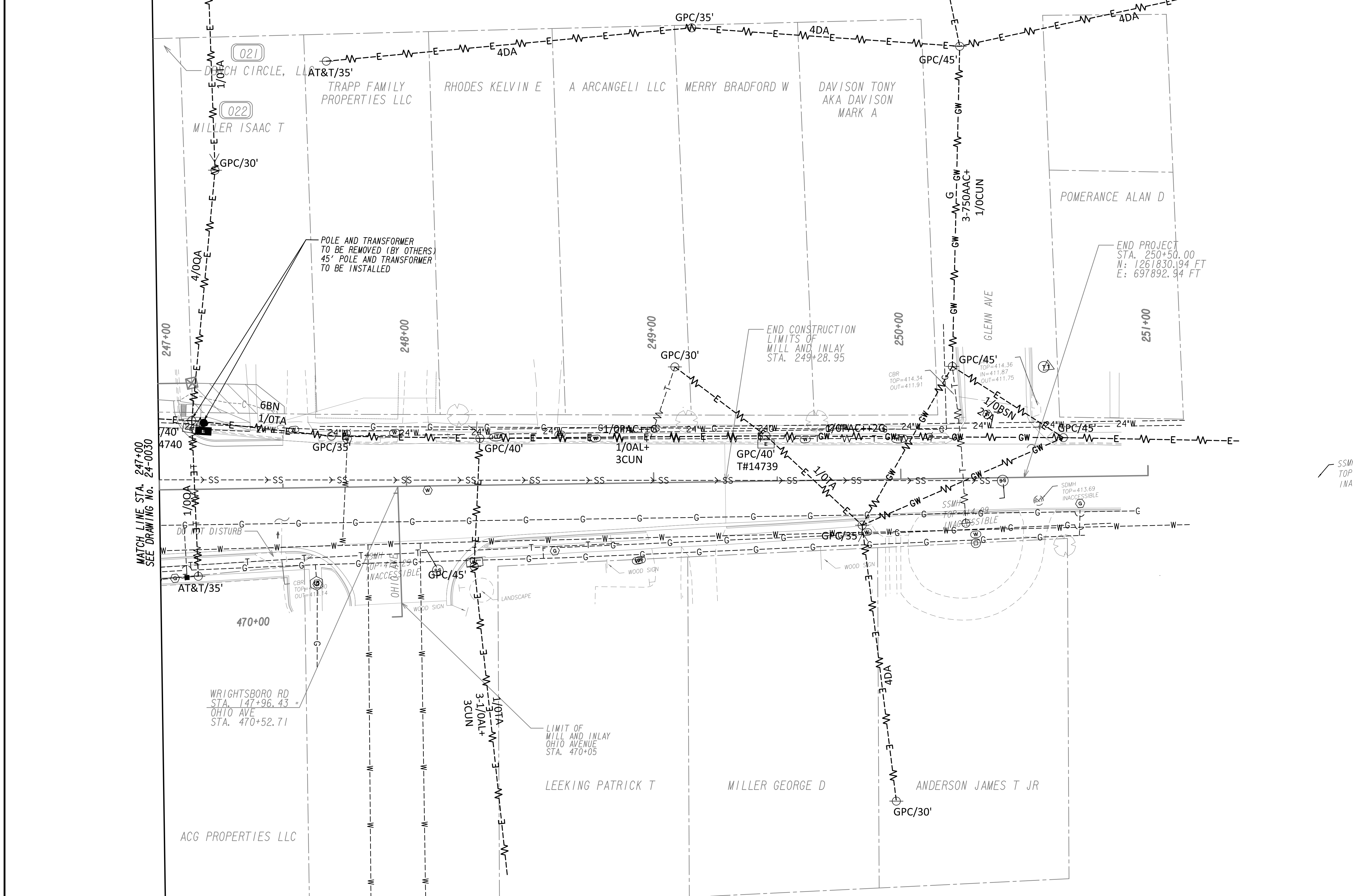
— P — BEGIN LIMIT OF ACCESS.....BLA
 — E — END LIMIT OF ACCESS.....ELA
 — G — F — LIMIT OF ACCESS
 — H — H — REQ'D R/W & LIMIT OF ACCESS
 — I — I — ORANGE BARRIER FENCE
 — J — J — ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0030
CORRECTED:	DATE:	
VERIFIED:	DATE:	

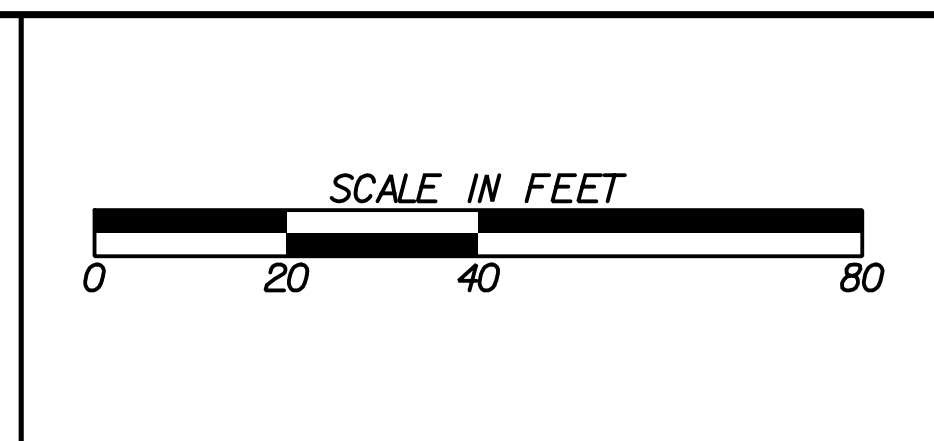


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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REVISION DATES	
12-21-22	

UTILITY PLANS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE

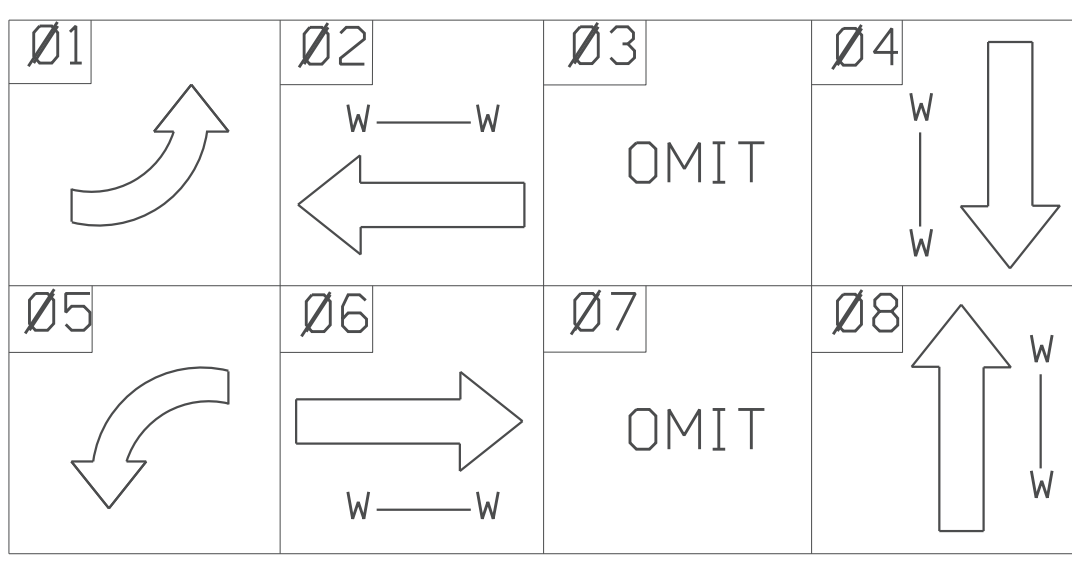
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0031
CORRECTED:	DATE:	
VERIFIED:	DATE:	

REV	DATE	DESCRIPTION
1	12/21/22	12/21/22 UPDATED QUANTITIES

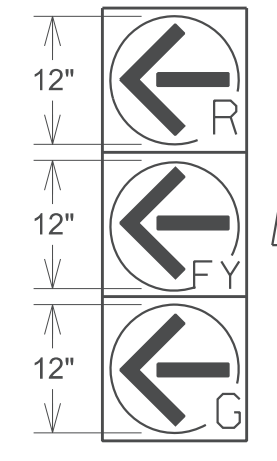
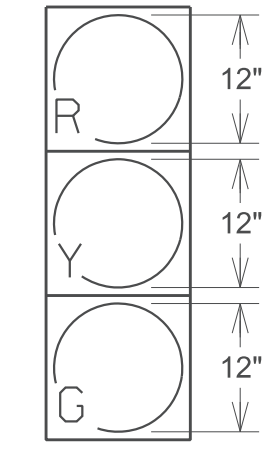
WRIGHTSBORO RD @ VANOVER DR / VALLEY PARK DR EAST
(INSTALLATION 1)

SIGNAL PLANS

PHASING DIAGRAM



LED TRAFFIC SIGNAL HEADS W/TP 1x REFLECTION TAPE ON BACK PLATES

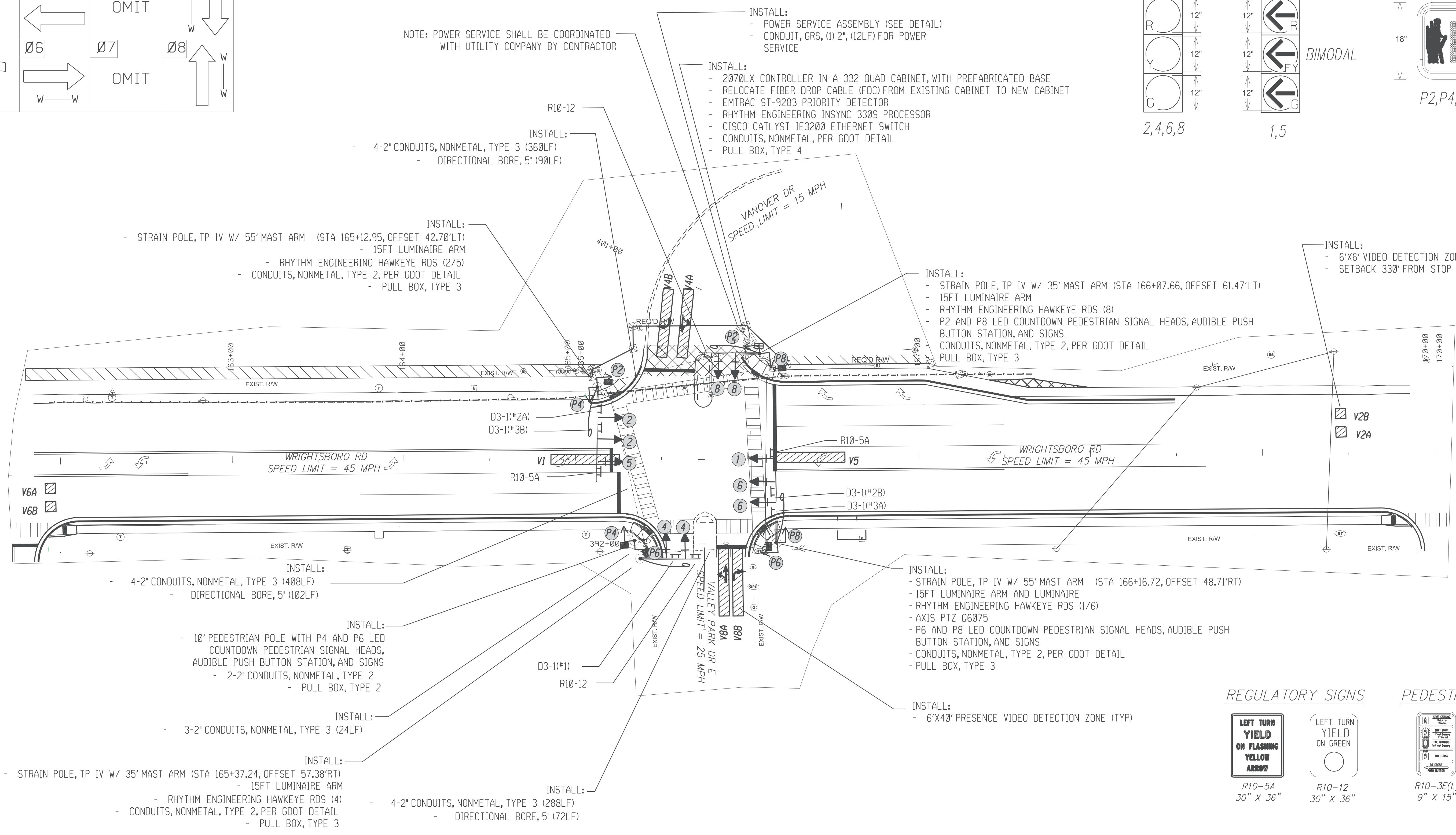
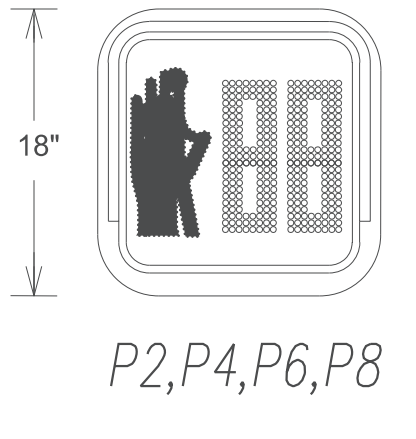


BIMODAL

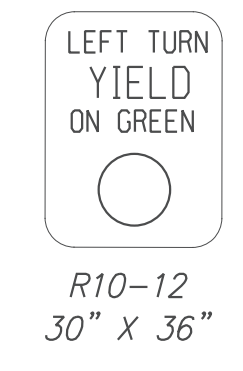
2,4,6,8

1,5

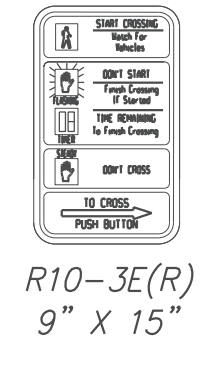
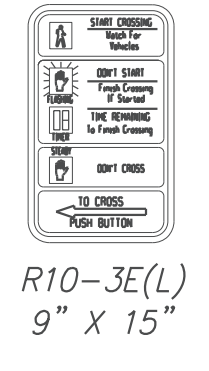
LED PEDESTRIAN SIGNAL HEADS



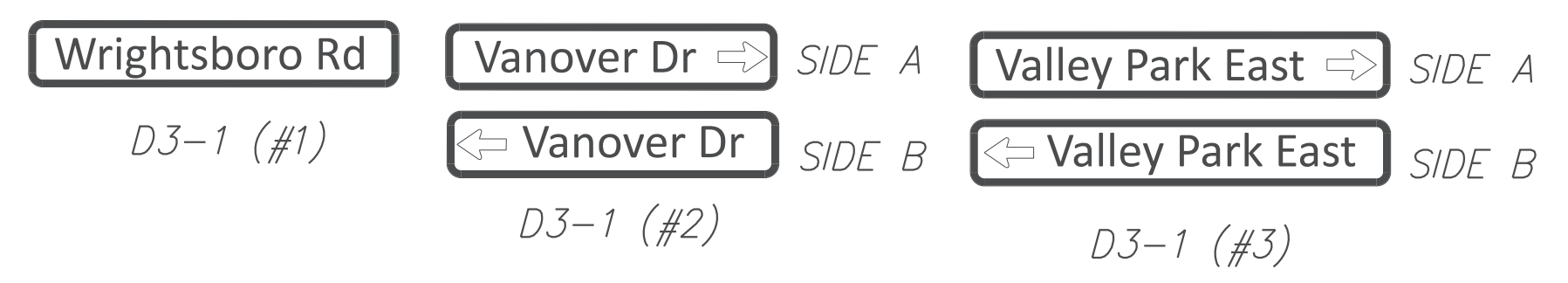
REGULATORY SIGNS



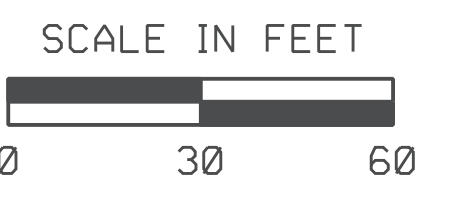
PEDESTRIAN SIGNS



INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGNS



- NOTES:
- CONTRACTOR TO DETERMINE SIGNAL POLE ATTACHMENT HEIGHT PRIOR TO MANUFACTURING OF SIGNAL POLES.
 - DETECTION ZONES ARE APPROXIMATE. SIGNAL CONTRACTOR SHALL COORDINATE WITH AUGUSTA TRAFFIC ENGINEERING DEPARTMENT TO SET UP DETECTION ZONES TO PROVIDE OPTIMUM INTERSECTION DETECTION.
 - CONTRACTOR SHALL CONFORM TO ALL APPLICABLE GDOT AND CITY OF AUGUSTA STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR CITY OF AUGUSTA).
 - CONTRACTOR SHALL RETURN ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO THE CITY OF AUGUSTA TRAFFIC ENGINEERING DEPARTMENT.
 - ALL MAST ARM POLES, ARMS, AND BASES SHALL BE EPOXY PAINTED BLACK.
 - ALL VEHICULAR AND PEDESTRIAN SIGNALS SHALL HAVE BLACK FACES AND BLACK BACKS. ALL SIGNAL HARDWARE SHALL BE BLACK.
 - D3-1 SIGNS (STREET NAME SIGNS) SHALL BE INTERNAL ILLUMINATED TO MATCH SOUTHERN MANUFACTURING SPECIFICATIONS.
 - CONTRACTOR SHALL VACUUM BORE FOUNDATIONS FOR MAST ARM POLES DUE TO PROXIMITY OF UTILITIES.



INSTALLATION NO. 1
PROPOSED 332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
UPPER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	PH 1	PH 2				PH 4					INT ADV	PH 2	PH 6	FLASH
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10		NC	TB-8 4,6	TB-8 7,9	NC
CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		PH 2				PH 4					MCE	PH 4	PH 8	STOP
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12		NC	TB-8 5,6	TB-8 8,9	NC
LOWER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION	PH 5	PH 6				PH 8						EVA	EVB	R/R
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10		NC	TB-9 4,6	TB-9 7,9	NC
CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		PH 6				PH 8						EVC	EVD	
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12		NC	TB-9 5,6	TB-9 8,9	TB-9 11,12

TRAFFIC SIGNAL INSTALLATION NO. 1		
WRIGHTSBORO ROAD @ VANOVER/VALLEY PARK DRIVE		
DESCRIPTION	UNIT	QUANTITY
CABINET CONTROLLER ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LY	EA	1
E. CABINET ASSEMBLY, MODEL CL4D QUAD 332	EA	1
F. SWITCH PACK (LOAD SWITCH)	EA	12
G. DC ISOLATOR	EA	3
K. 2010 SIGNAL MONITOR, TYPE B (ETHERNET)	EA	1
M. AUXILIARY OUTPUT FILE	EA	1
PREFABRICATED WORK PAD	EA	2
CL4D PREFABRICATED CONTROLLER CABINET BASE	EA	1
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT), 3 PAIR 18 AWG	REEL	2
SIGNAL CABLE (14AWG), 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (STANDARD 3 STACK CONFIG)	EA	8
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (BIMODEL CONFIG)	EA	2
1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAIN OVERLAP (9" HIGH NUMBERS & 12" SYMBOLS), BLACK	EA	8
PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS (ADA COMPLIANT BDPH3-X, PIEZO ELECTRIC); 9" X 15", R10-3E, (LEFT OR (R)RIGHT, COUNTDOWN, BLACK		
1. 9"x15", R10-3EL, COUNTDOWN	EA	4
2. 9"x15", R10-3ER, COUNTDOWN	EA	4
PEDESTRIAN PUSHBUTTON STATION ADAPTERS (ONLY)		
1. 9"x15", DOUBLE PUSHBUTTON STATION ADAPTER FOR 4" DIA PEDESTRIAN POLE, ADJUSTABLE, BLACK	EA	1
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	10
HARDWARE FOR MAST ARM MOUNTING	EA	10
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY (BLACK)	EA	1
PEDESTAL POLE & SQUARE BASE (BLACK)	EA	1
PULL BOX, PB-2	EA	1
PULL BOX, PB-3	EA	4
PULL BOX, PB-4	EA	1
CONDUIT, 1"	LF	20
CONDUIT, 2"	LF	50
CONDUIT, RIGID, 2"	LF	50
R10-5A, LEFT TURN ON FLASHING YELLOW ARROW SIGN	EA	2
R10-12, YELLOW TURN YIELD ON GREEN	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION NO. 1		
DESCRIPTION	UNIT	QUANTITY
DIRECTIONAL BORE PIPE - 5 IN.	LF	264
CONDUIT, NONMETAL, TP 2, 2 IN	LF	1056
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 35' MAST ARM (BLACK)	EA	2
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 55' MAST ARM (BLACK)	EA	2
TRAFFIC SIGNAL INSTALLATION NO.1	LS	1
ELECTRICAL POWER SERVICE ASSEMBLY (AERIAL SERVICE POINT)	EA	1
INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	EA	1
OUTPUT EXPANSION MODULE, TYPE A	EA	1
CCTV SYSTEM, TYPE H	EA	1
INTERNALLY ILLUMINATED STREET SIGN DOUBLE SIDED	EA	3
INTERNALLY ILLUMINATED STREET SIGN CONTROL ASSEMBLY	EA	3
MISC. MATL. TO COMPLETE INSTALLATION	LUMP	LUMP



REV	DATE	DESCRIPTION	SUBMITTAL TO COUNTY	UPDATED QUANTITIES
1	10/09/22			
	1/20/22			

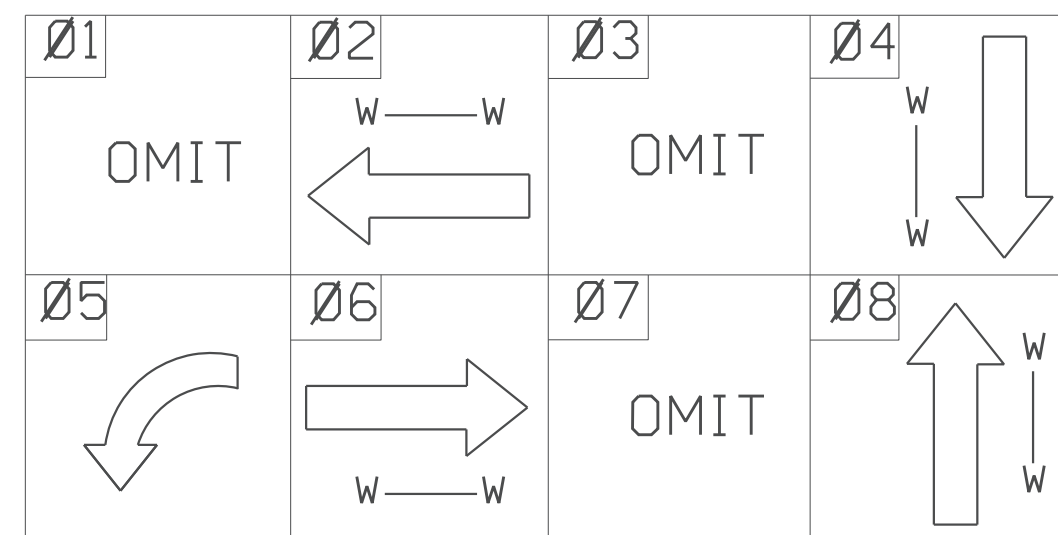
VANOVER DR / VALLEY PARK DR EAST (INSTALLATION NO. 1)
INPUT ASSIGNMENTS / LIST OF MATERIALS / PAY ITEMS

SIGNAL PLANS



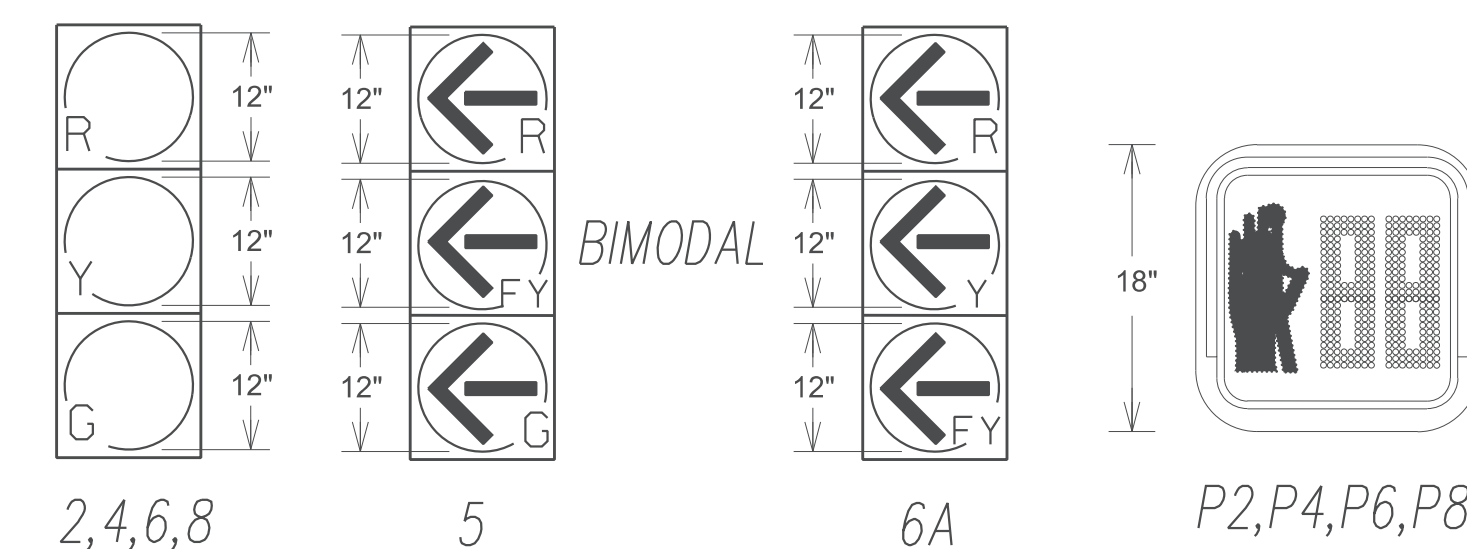
Scale: NTS
Job:
Issue:
27-0004

PHASING DIAGRAM

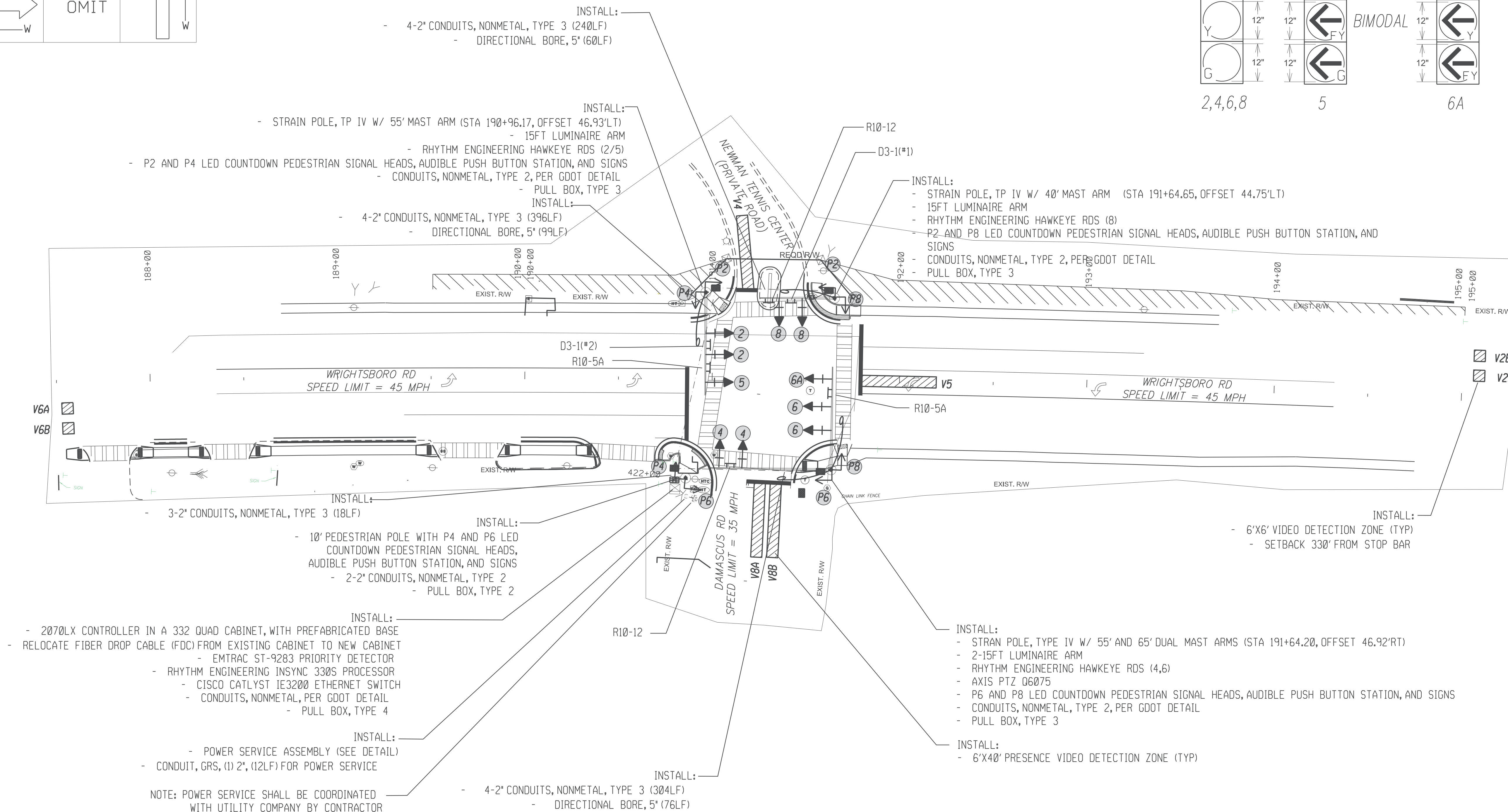


LED TRAFFIC SIGNAL HEADS W/TP 1x REFLECTION TAPE ON BACK PLATES

LED PEDESTRIAN SIGNAL HEADS

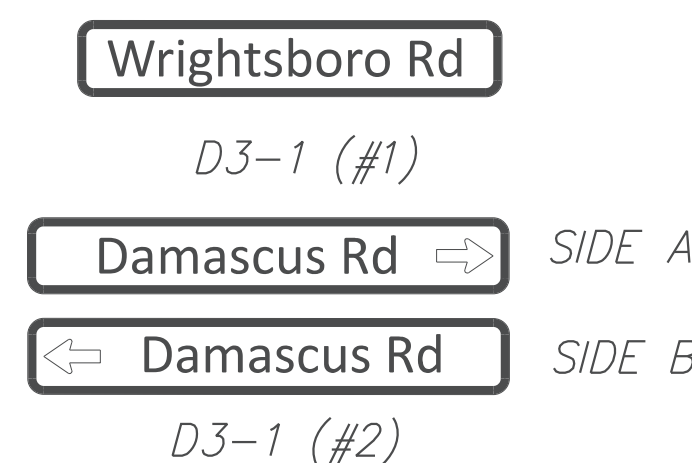


REV	DATE	DESCRIPTION
1	12/21/22	UPDATED QUANTITIES

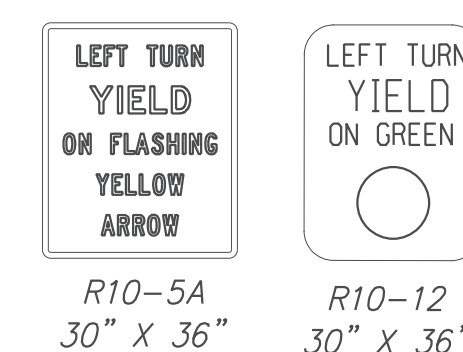


- NOTES:
- CONTRACTOR TO DETERMINE SIGNAL POLE ATTACHMENT HEIGHT PRIOR TO MANUFACTURING OF SIGNAL POLES.
 - DETECTION ZONES ARE APPROXIMATE. SIGNAL CONTRACTOR SHALL COORDINATE WITH AUGUSTA TRAFFIC ENGINEERING DEPARTMENT TO SET UP DETECTION ZONES TO PROVIDE OPTIMUM INTERSECTION DETECTION.
 - CONTRACTOR SHALL CONFORM TO ALL APPLICABLE GDOT AND CITY OF AUGUSTA STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR CITY OF AUGUSTA).
 - CONTRACTOR SHALL RETURN ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO THE CITY OF AUGUSTA TRAFFIC ENGINEERING DEPARTMENT.
 - ALL MAST ARM POLES, ARMS, AND BASES SHALL BE EPOXY PAINTED BLACK.
 - ALL VEHICULAR AND PEDESTRIAN SIGNALS SHALL HAVE BLACK FACES AND BLACK BACKS. ALL SIGNAL HARDWARE SHALL BE BLACK.
 - D3-1 SIGNS (STREET NAME SIGNS) SHALL BE INTERNAL ILLUMINATED TO MATCH SOUTHERN MANUFACTURING SPECIFICATIONS.
 - CONTRACTOR SHALL VACUUM BORE FOUNDATIONS FOR MAST ARM POLES DUE TO PROXIMITY OF UTILITIES.

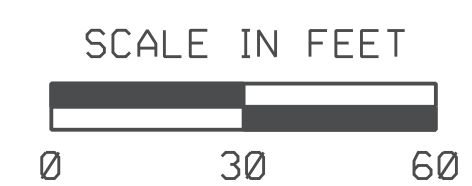
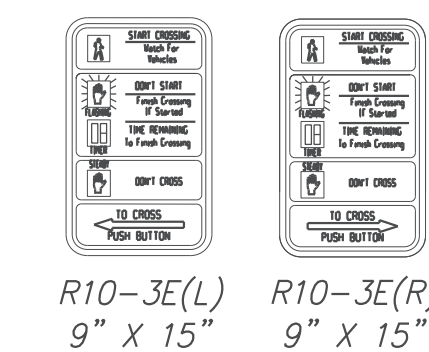
INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGNS



REGULATORY SIGNS



PEDESTRIAN SIGNS



WRIGHTSBORO RD @ DAMASCUS RD (INSTALLATION 2)

SIGNAL PLANS

Scale: 1"=30'
Job:
Issue:
27-0005

INSTALLATION NO. 2
PROPOSED 332 CABINET INPUT ASSIGNMENT

	SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
UPPER INPUT FILE																
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	
CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60			80	67	68	81
	FUNCTION		PH 2										INT ADV	PH 2	PH 6	FLASH
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10				NC	TB-8 4,6	TB-8 7,9
CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62			53	69	70	82
	FUNCTION		PH 2										MCE	PH 4	PH 8	STOP
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12				NC	TB-8 5,6	TB-8 8,9
LOWER INPUT FILE																
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	
CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59			71	72	51	
	FUNCTION		PH 5	PH 6	PH 6								EVA	EVB	R/R	
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10				NC	TB-9 4,6	TB-9 7,9
CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61			75	73	74	52
	FUNCTION		PH 6											EVC	EVD	
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12				NC	TB-9 5,6	TB-9 8,9

TRAFFIC SIGNAL INSTALLATION NO. 2		
WRIGHTSBORO ROAD @ DAMASCUS ROAD		
LIST OF MATERIALS	UNIT	QUANTITY
CABINET CONTROLLER ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
E. CABINET ASSEMBLY, MODEL CL4D QUAD 332	EA	1
F. SWITCH PACK (LOAD SWITCH)	EA	11
G. DC ISOLATOR	EA	3
H. LOOP DETECTOR, 2 CHANNEL	EA	4
K. 2010 SIGNAL MONITOR, TYPE B (ETHERNET)	EA	1
M. AUXILIARY OUTPUT FILE	EA	1
PREFABRICATED WORK PAD		
CL40 PREFABRICATED CONTROLLER CABINET BASE	EA	1
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT), 3 PAIR 18 AWG	REEL	2
SIGNAL CABLE (14AWG), 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (STANDARD 3 STACK CONFIG)	EA	8
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (BIMODEL CONFIG)	EA	1
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (FYA CONFIG)	EA	1
1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBERS & 12" SYMBOLS), BLACK	EA	8
PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS (ADA COMPLIANT BDPM3-X, PIEZO ELECTRIC): 9" X 15", RIO-3E, (L)LEFT OR (R)RIGHT, COUNTDOWN, BLACK		
1. 9"x15", RIO-3EL, COUNTDOWN	EA	4
2. 9"x15", RIO-3ER, COUNTDOWN	EA	4
PEDESTRIAN PUSHBUTTON STATION ADAPTERS (ONLY)		
1. 9"x15", DOUBLE PUSHBUTTON STATION ADAPTER FOR 4" DIA PEDESTRIAN POLE, ADJUSTABLE, BLACK	EA	1
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	10
HARDWARE FOR MAST ARM MOUNTING		
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY (BLACK)	EA	1
PEDESTAL POLE & SQUARE BASE (BLACK)	EA	1
PULL BOX, PB-2	EA	1
PULL BOX, PB-3	EA	3
PULL BOX, PB-4	EA	1
CONDUIT, 1"	LF	20
CONDUIT, 2"	LF	50
CONDUIT, RIGID, 2"	LF	50
RIO-5A, LEFT TURN ON FLASHING YELLOW ARROW SIGN	EA	2
RIO-12, YELLOW TURN YIELD ON GREEN	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION NO. 2		
DESCRIPTION	UNIT	QUANTITY
DIRECTIONAL BORE PIPE - 5 IN.	LF	235
CONDUIT, NONMETAL, TP 2, 2 IN	LF	1000
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 40' MAST ARM (BLACK)	EA	1
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 55' MAST ARM (BLACK)	EA	1
STEEL STRAIN POLE, TP IV, INCL 2-15 FT LUMINAIRE ARMS W/ ONE 55' MAST ARM AND ONE 65' (BLACK)	EA	1
TRAFFIC SIGNAL INSTALLATION NO.2	LS	1
ELECTRICAL POWER SERVICE ASSEMBLY (AERIAL SERVICE POINT)	EA	1
INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	EA	1
OUTPUT EXPANSION MODULE, TYPE A	EA	1
CCTV SYSTEM, TYPE H	EA	1
INTERNALLY ILLUMINATED STREET SIGN DOUBLE SIDED	EA	2
INTERNALLY ILLUMINATED STREET SIGN CONTROL ASSEMBLY	EA	2
MISC. MATL. TO COMPLETE INSTALLATION	LUMP	LUMP



REV	DATE	DESCRIPTION	SUBMITTAL TO COUNTY	UPDATED QUANTITIES
1	12/21/22			

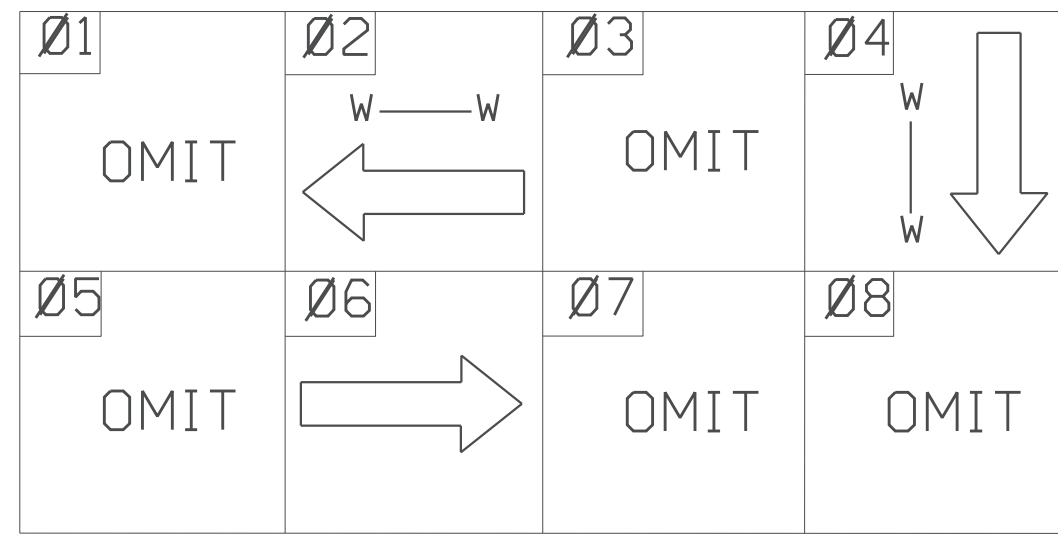
DAMASCUS RD (INSTALLATION NO. 2)
INPUT ASSIGNMENTS / LIST OF MATERIALS / PAY ITEMS

SIGNAL PLANS

Scale: NTS
Job:
Issue:
27-0006

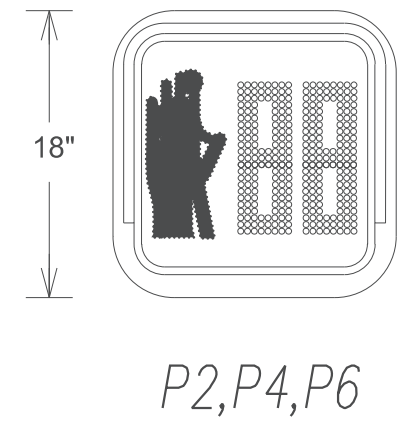
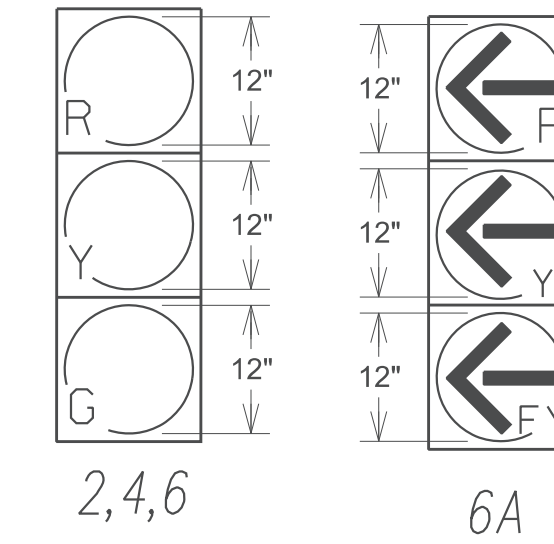


PHASING DIAGRAM

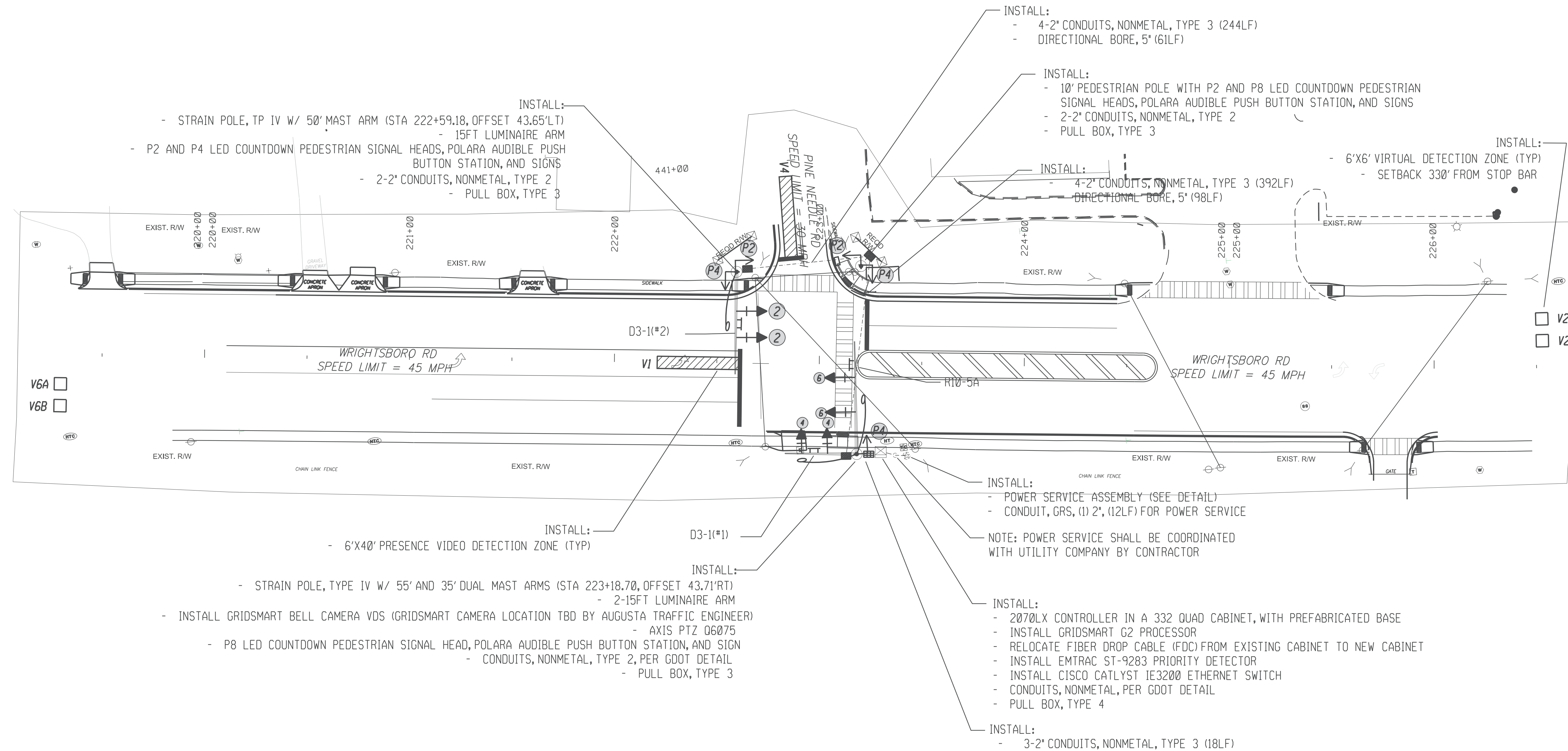


LED TRAFFIC SIGNAL HEADS W/TP 1x REFLECTION TAPE ON BACK PLATES

LED PEDESTRIAN SIGNAL HEADS



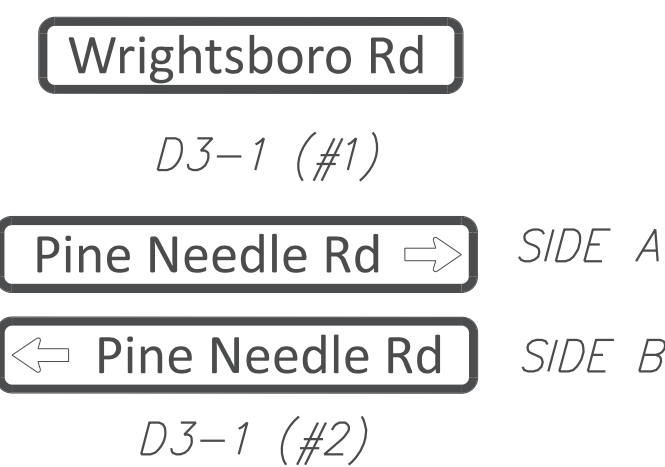
REV	DATE	DESCRIPTION
1	12/21/22	UPDATED QUANTITIES



NOTES:

- CONTRACTOR TO DETERMINE SIGNAL POLE ATTACHMENT HEIGHT PRIOR TO MANUFACTURING OF SIGNAL POLES.
- DETECTION ZONES ARE APPROXIMATE. SIGNAL CONTRACTOR SHALL COORDINATE WITH AUGUSTA TRAFFIC ENGINEERING DEPARTMENT TO SET UP DETECTION ZONES TO PROVIDE OPTIMUM INTERSECTION DETECTION.
- CONTRACTOR SHALL CONFORM TO ALL APPLICABLE GDOT AND CITY OF AUGUSTA STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR CITY OF AUGUSTA).
- CONTRACTOR SHALL RETURN ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO THE CITY OF AUGUSTA TRAFFIC ENGINEERING DEPARTMENT.
- ALL MAST ARM POLES, ARMS, AND BASES SHALL BE EPOXY PAINTED BLACK.
- ALL VEHICULAR AND PEDESTRIAN SIGNALS SHALL HAVE BLACK FACES AND BLACK BACKS. ALL SIGNAL HARDWARE SHALL BE BLACK.
- D3-1 SIGNS (STREET NAME SIGNS) SHALL BE INTERNAL ILLUMINATED TO MATCH SOUTHERN MANUFACTURING SPECIFICATIONS.
- CONTRACTOR SHALL VACUUM BORE FOUNDATIONS FOR MAST ARM POLES DUE TO PROXIMITY OF UTILITIES.

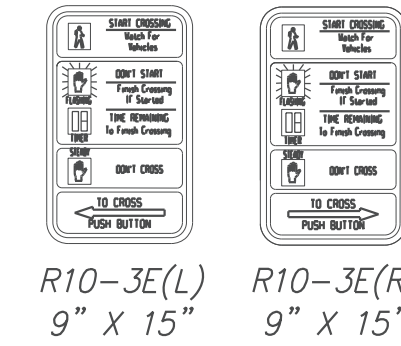
INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGNS



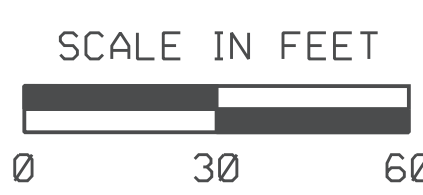
REGULATORY SIGNS



PEDESTRIAN SIGNS



SCALE IN FEET



WRIGHTSBORO RD @ PINE NEEDLE RD (INSTALLATION 3)

SIGNAL PLANS

Scale: 1"=30'
Job:
Issue:
27-0007

INSTALLATION NO. 3
PROPOSED 332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
UPPER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
CHANNEL 1	FUNCTION		PH 2				Ph 4					INT ADV	PH 2	PH 6	FLASH
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10		NC	TB-8 4,6	TB-8 7,9	NC
CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		PH 2									MCE	Ph 4		STOP TIME
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12		NC	TB-8 5,6	TB-8 8,9	NC
LOWER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
CHANNEL 1	FUNCTION		PH 6	PH 6									EVA	EVB	R/R
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10		NC	TB-9 4,6	TB-9 7,9	NC
CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		PH 6										EVC	EVD	
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12		NC	TB-9 5,6	TB-9 8,9	TB-9 11,12

TRAFFIC SIGNAL INSTALLATION NO. 3		
WRIGHTSBORO ROAD @ PINE NEEDLE ROAD		
LIST OF MATERIALS	UNIT	QUANTITY
CABINET CONTROLLER ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
E. CABINET ASSEMBLY, MODEL CL4D QUAD 332	EA	1
F. SWITCH PACK (LOAD SWITCH)	EA	7
G. DC ISOLATOR	EA	3
K. 2010 SIGNAL MONITOR, TYPE B (ETHERNET)	EA	1
M. AUXILLIARY OUTPUT FILE	EA	1
PREFABRICATED WORK PAD		
CL40 PREFABRICATED CONTROLLER CABINET BASE	EA	1
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
GRIDSMA RT G2 PROCESSOR	EA	1
GRIDSMA RT BELL CAMERA VDS	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT), 3 PAIR 18 AWG	REEL	2
SIGNAL CABLE (14AWG), 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (STANDARD 3 STACK CONFIG)	EA	6
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (FYA CONFIG)	EA	1
1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBERS & 12" SYMBOLS), BLACK	EA	5
PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS (ADA COMPLIANT BOPM3-X, PIEZO ELECTRIC): 9" X 15", R10-3E, (L)EFT OR (R)IGHT, COUNTDOWN, BLACK		
1. 9"x15", R10-3EL, COUNTDOWN	EA	3
2. 9"x15", R10-3ER, COUNTDOWN	EA	2
POLARA ICCU-S CENTRAL CONTROL UNIT W/HARNESS, INTERCONNECT AND SDLC	EA	1
POLARA IDS23 RN1-B, PUSHBUTTON, 9"x15", BLACK	EA	5
POLARA INSPA 4X2, ADAPTER MOUNT FOR 4.5" DIA POLE, BLACK	EA	1
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	7
HARDWARE FOR MAST ARM MOUNTING	EA	7
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY (BLACK)	EA	1
PEDESTAL POLE & SQUARE BASE (BLACK)	EA	1
PULL BOX, PB-3	EA	3
PULL BOX, PB-4	EA	1
CONDUIT, 1"	LF	20
CONDUIT, 2"	LF	50
CONDUIT, RIGID, 2"	LF	50
R10-5A, LEFT TURN ON FLASHING YELLOW ARROW SIGN	EA	1
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION NO. 3		
DESCRIPTION	UNIT	QUANTITY
DIRECTIONAL BORE PIPE - 5 IN.	LF	159
CONDUIT, NONMETAL, TP 2, 2 IN	LF	636
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 50' MAST ARM (BLACK)	EA	1
STEEL STRAIN POLE, TP IV, INCL 2-15 FT LUMINAIRE ARMS W/ ONE 35' MAST ARM AND ONE 55' (BLACK)	EA	1
TRAFFIC SIGNAL INSTALLATION NO.3	LS	1
ELECTRICAL POWER SERVICE ASSEMBLY (AERIAL SERVICE POINT)	EA	1
INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	EA	1
OUTPUT EXPANSION MODULE, TYPE A	EA	1
CCTV SYSTEM, TYPE H	EA	1
INTERNALLY ILLUMINATED STREET SIGN DOUBLE SIDED	EA	2
INTERNALLY ILLUMINATED STREET SIGN CONTROL ASSEMBLY	EA	2
MISC. MATL. TO COMPLETE INSTALLATION	LUMP	LUMP



REV	DATE	DESCRIPTION	SUBMITTAL TO COUNTY	UPDATED QUANTITIES
1	1/20/22			

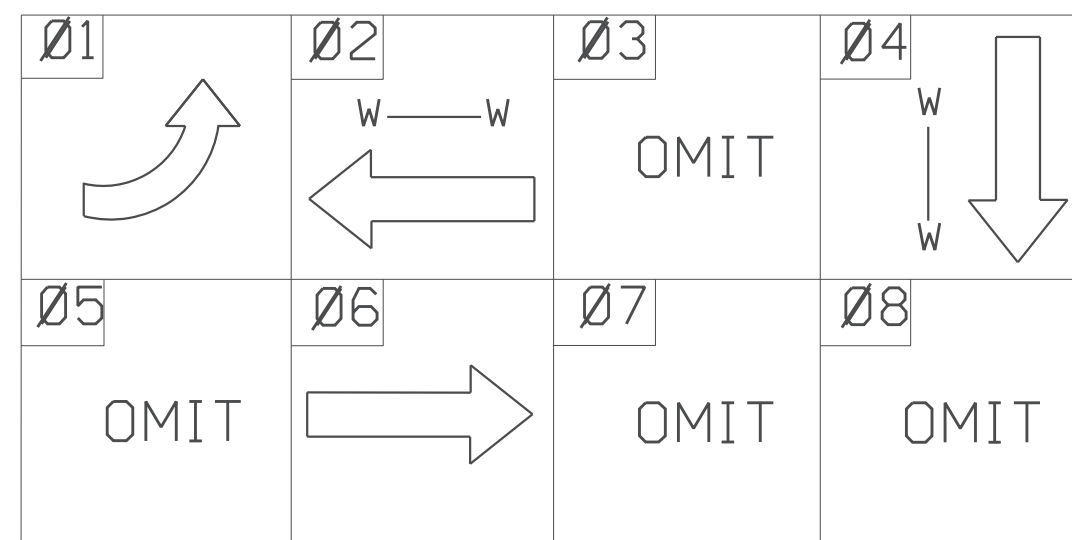
PINE NEEDLE RD (INSTALLATION NO. 3)
INPUT ASSIGNMENTS / LIST OF MATERIALS / PAY ITEMS

SIGNAL PLANS

Scale: NTS
Job:
Issue:
27-0008

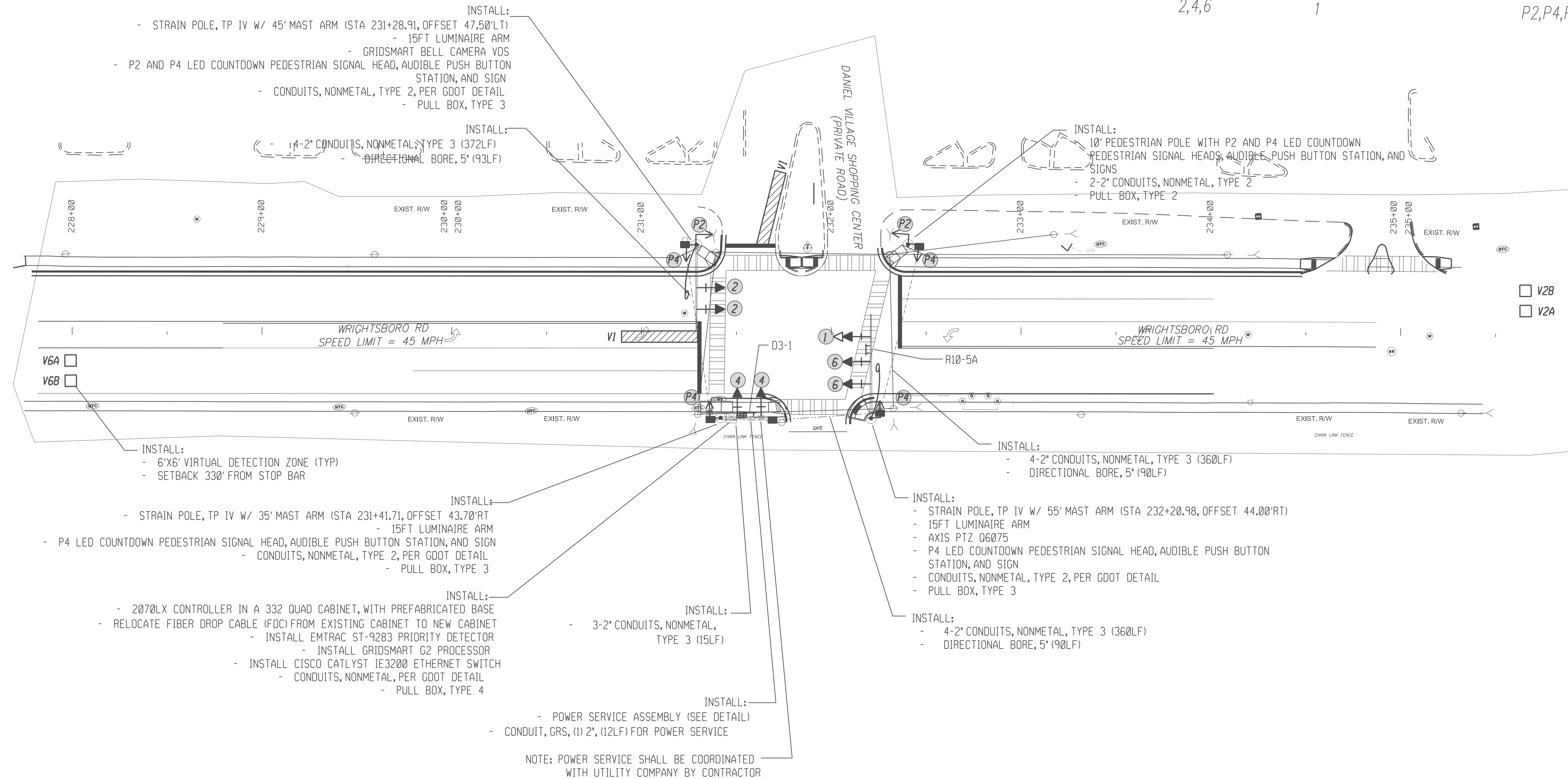
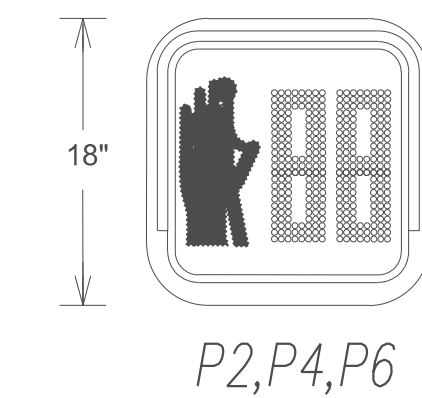
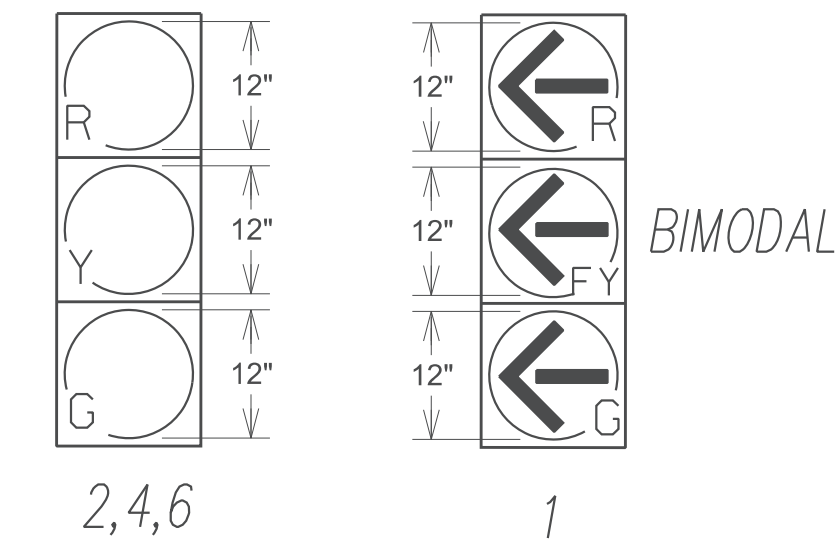


PHASING DIAGRAM



LED TRAFFIC SIGNAL HEADS W/TP 1x REFLECTION TAPE ON BACK PLATES

LED PEDESTRIAN SIGNAL HEADS



- NOTES:
- CONTRACTOR TO DETERMINE SIGNAL POLE ATTACHMENT HEIGHT PRIOR TO MANUFACTURING OF SIGNAL POLES.
 - DETECTION ZONES ARE APPROXIMATE. SIGNAL CONTRACTOR SHALL COORDINATE WITH AUGUSTA TRAFFIC ENGINEERING DEPARTMENT TO SET UP DETECTION ZONES TO PROVIDE OPTIMUM INTERSECTION DETECTION.
 - CONTRACTOR SHALL CONFORM TO ALL APPLICABLE GDOT AND CITY OF AUGUSTA STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR CITY OF AUGUSTA).
 - CONTRACTOR SHALL RETURN ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO THE CITY OF AUGUSTA TRAFFIC ENGINEERING DEPARTMENT.
 - ALL MAST ARM POLES, ARMS, AND BASES SHALL BE EPOXY PAINTED BLACK.
 - ALL VEHICULAR AND PEDESTRIAN SIGNALS SHALL HAVE BLACK FACES AND BLACK BACKS. ALL SIGNAL HARDWARE SHALL BE BLACK.
 - D3-1 SIGNS (STREET NAME SIGNS) SHALL BE INTERNAL ILLUMINATED TO MATCH SOUTHERN MANUFACTURING SPECIFICATIONS.
 - CONTRACTOR SHALL VACUUM BORE FOUNDATIONS FOR MAST ARM POLES DUE TO PROXIMITY OF UTILITIES.

INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGNS

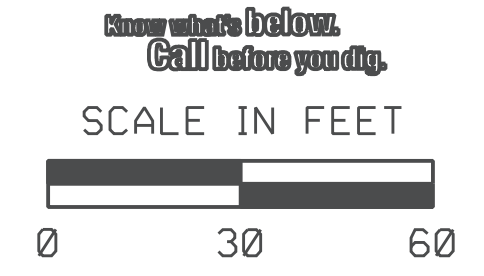
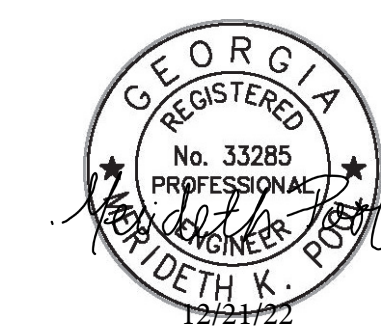
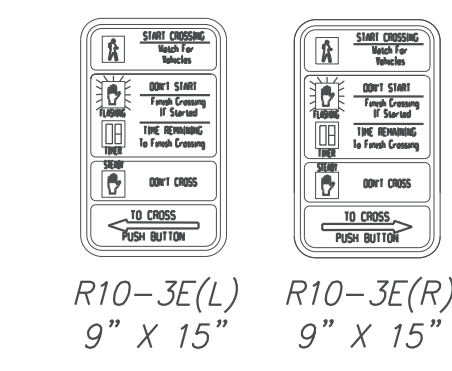
Wrightsboro Rd

D3-1

REGULATORY SIGNS



PEDESTRIAN SIGNS



REV	DATE	DESCRIPTION
1	12/21/22	UPDATE QUANTITIES

WRIGHTSBORO RD @ DANIEL VILLAGE SHOPPING CENTER (INSTALLATION 4)

SIGNAL PLANS

Scale: 1"=30'
Job:
Issue:
27-0009

INSTALLATION NO. 4
PROPOSED 332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
UPPER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	PH 1	PH 2				Ph 4					INT ADV	PH 2	PH 6	FLASH
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10		NC	TB-8 4,6	TB-8 7,9	NC
CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		PH 2									MCE	Ph 4		STOP TIME
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12		NC	TB-8 5,6	TB-8 8,9	NC
LOWER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION		PH 6										EVA	EVB	R/R
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10		NC	TB-9 4,6	TB-9 7,9	NC
CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		PH 6										EVC	EVD	
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12		NC	TB-9 5,6	TB-9 8,9	TB-9 11,12

TRAFFIC SIGNAL INSTALLATION NO. 4		
WRIGHTSBORO ROAD @ DANIEL VILLAGE SHOPPING CENTER		
LIST OF MATERIALS	UNIT	QUANTITY
CABINET CONTROLLER ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
E. CABINET ASSEMBLY, MODEL CL4D QUAD 332	EA	1
F. SWITCH PACK (LOAD SWITCH)	EA	8
G. DC ISOLATOR	EA	3
K. 2010 SIGNAL MONITOR, TYPE B (ETHERNET)	EA	1
M. AUXILIARY OUTPUT FILE	EA	1
PREFABRICATED WORK PAD	EA	2
CL40 PREFABRICATED CONTROLLER CABINET BASE	EA	1
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
GRIDSMART G2 PROCESSOR	EA	1
GRIDSMART BELL CAMERA VDS	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT), 3 PAIR 18 AWG	REEL	2
SIGNAL CABLE (14AWG), 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (STANDARD 3 STACK CONFIG)	EA	6
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (BIMODEL CONFIG)	EA	1
1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBERS & 12" SYMBOLS), BLACK	EA	6
PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS (ADA COMPLIANT BDP3-X, PIEZO ELECTRIC): 9" X 15", R10-3E, (L)LEFT OR (R)RIGHT, COUNTDOWN, BLACK		
1. 9"x15", R10-3EL, COUNTDOWN	EA	3
2. 9"x15", R10-3ER, COUNTDOWN	EA	3
PEDESTRIAN PUSHBUTTON STATION ADAPTERS (ONLY)		
1. 9"x15", DOUBLE PUSHBUTTON STATION ADAPTER FOR 4" DIA PEDESTRIAN POLE, ADJUSTABLE, BLACK	EA	1
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	7
HARDWARE FOR MAST ARM MOUNTING	EA	7
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY (BLACK)	EA	1
PEDESTAL POLE & SQUARE BASE (BLACK)	EA	1
PULL BOX, PB-2	EA	1
PULL BOX, PB-3	EA	3
PULL BOX, PB-4	EA	1
CONDUIT, 1"	LF	20
CONDUIT, 2"	LF	50
CONDUIT, RIGID, 2"	LF	50
R10-5A, LEFT TURN ON FLASHING YELLOW ARROW SIGN	EA	2
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

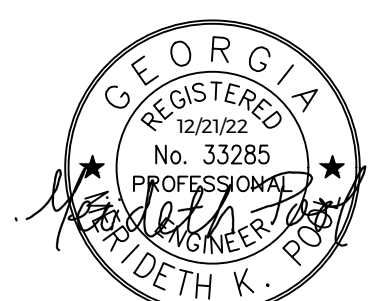
PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION NO. 4		
DESCRIPTION	UNIT	QUANTITY
DIRECTIONAL BORE PIPE - 5 IN.	LF	273
CONDUIT, NONMETAL, TP 2, 2 IN	LF	1110
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 35' MAST ARM (BLACK)	EA	1
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 45' MAST ARM (BLACK)	EA	1
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 55' MAST ARM (BLACK)	EA	1
TRAFFIC SIGNAL INSTALLATION NO.4	LS	1
ELECTRICAL POWER SERVICE ASSEMBLY (AERIAL SERVICE POINT)	EA	1
INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	EA	1
OUTPUT EXPANSION MODULE, TYPE A	EA	1
CCTV SYSTEM, TYPE H	EA	1
INTERNALLY ILLUMINATED STREET SIGN DOUBLE SIDED	EA	1
INTERNALLY ILLUMINATED STREET SIGN CONTROL ASSEMBLY	EA	1
MISC. MATL. TO COMPLETE INSTALLATION	LUMP	LUMP



REV. DATE 10/19/22 SUBMITTAL TO COUNTY 1/12/22 UPDATED QUANTITIES

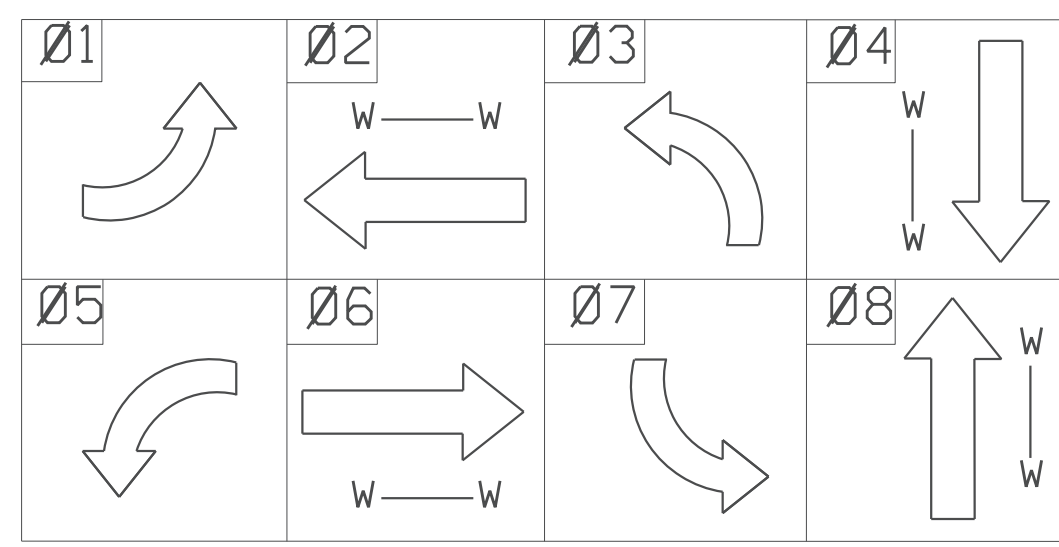
DANIEL VILLAGE SHOPPING CENTER (INSTALLATION 4)
INPUT ASSIGNMENTS / LIST OF MATERIALS / PAY ITEMS

SIGNAL PLANS



Scale: NTS
Job:
Issue:
27-0010

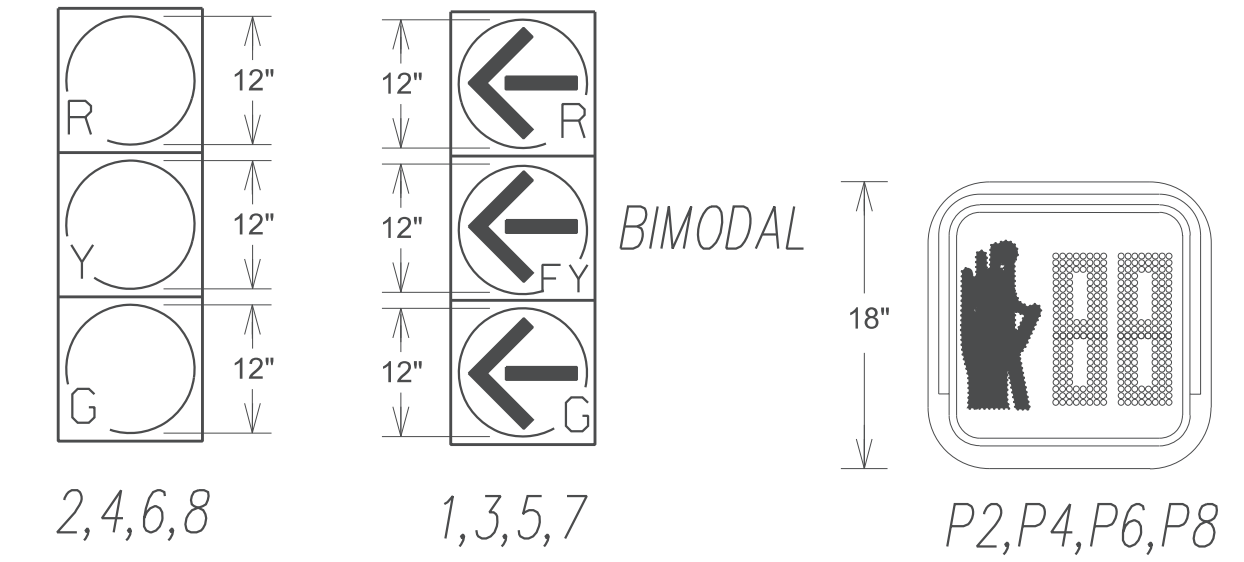
PHASING DIAGRAM



NOTES:

- CONTRACTOR TO DETERMINE SIGNAL POLE ATTACHMENT HEIGHT PRIOR TO MANUFACTURING OF SIGNAL POLES.
- DETECTION ZONES ARE APPROXIMATE. SIGNAL CONTRACTOR SHALL COORDINATE WITH AUGUSTA TRAFFIC ENGINEERING DEPARTMENT TO SET UP DETECTION ZONES TO PROVIDE OPTIMUM INTERSECTION DETECTION.
- CONTRACTOR SHALL CONFORM TO ALL APPLICABLE GDOT AND CITY OF AUGUSTA STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR CITY OF AUGUSTA).
- CONTRACTOR SHALL RETURN ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO THE CITY OF AUGUSTA TRAFFIC ENGINEERING DEPARTMENT.
- ALL MAST ARM POLES, ARMS, AND BASES SHALL BE EPOXY PAINTED BLACK.
- ALL VEHICULAR AND PEDESTRIAN SIGNALS SHALL HAVE BLACK FACES AND BLACK BACKS. ALL SIGNAL HARDWARE SHALL BE BLACK.
- D3-1 SIGNS (STREET NAME SIGNS) SHALL BE INTERNAL ILLUMINATED TO MATCH SOUTHERN MANUFACTURING SPECIFICATIONS.
- CONTRACTOR SHALL VACUUM BORE FOUNDATIONS FOR MAST ARM POLES DUE TO PROXIMITY OF UTILITIES.

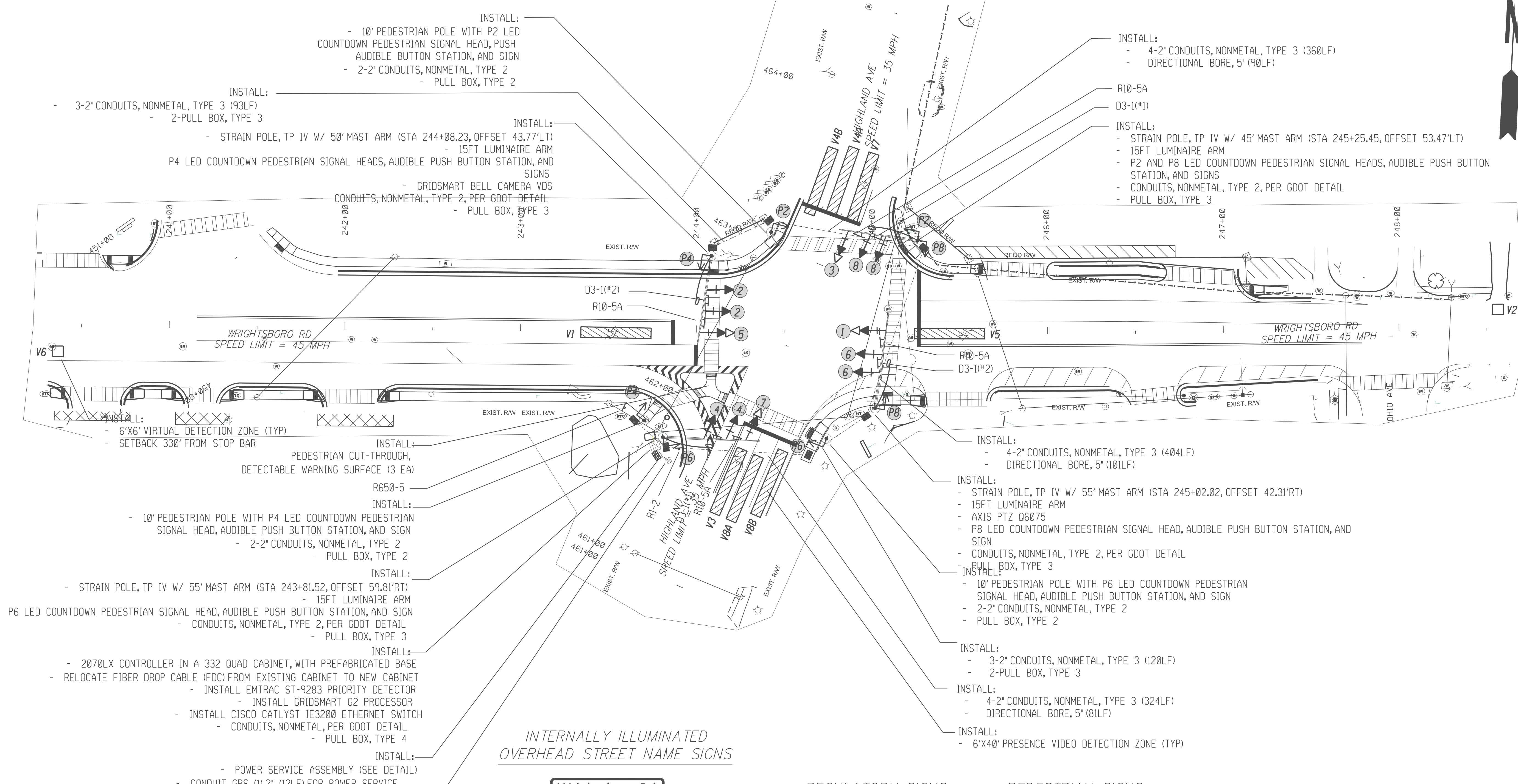
LED TRAFFIC SIGNAL HEADS W/TP 1x REFLECTION TAPE ON BACK PLATES
LED PEDESTRIAN SIGNAL HEADS



REV	DATE	DESCRIPTION
1	12/21/22	ISSUED QUANTITIES

WRIGHTSBORO RD @ HIGHLAND AVE (INSTALLATION 5)

SIGNAL PLANS

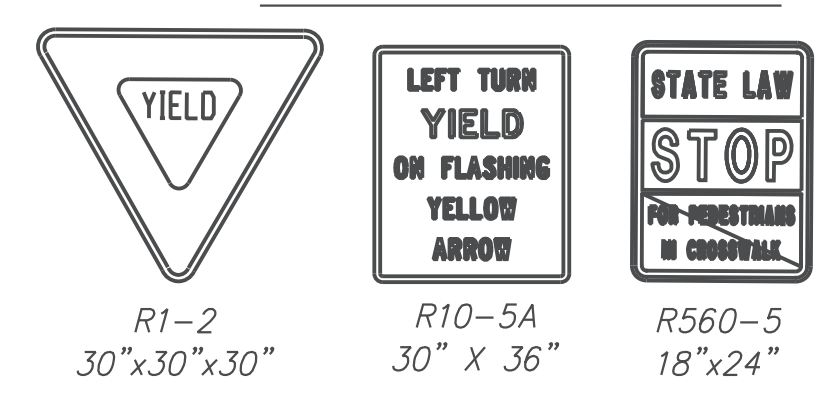


- INSTALL:
- 10' PEDESTRIAN POLE WITH P2 LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, PUSH AUDIBLE BUTTON STATION, AND SIGN
 - 2-2' CONDUITS, NONMETAL, TYPE 2
 - PULL BOX, TYPE 2
- INSTALL:
- 3-2' CONDUITS, NONMETAL, TYPE 3 (93LF)
 - 2-PULL BOX, TYPE 3
- INSTALL:
- STRAIN POLE, TP IV W/ 50' MAST ARM (STA 244+08.23, OFFSET 43.77'LT)
 - 15FT LUMINAIRE ARM
 - P4 LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE PUSH BUTTON STATION, AND SIGNS
 - GRIDSMART BELL CAMERA VDS
 - CONDUITS, NONMETAL, TYPE 2, PER GDOT DETAIL
 - PULL BOX, TYPE 3
- INSTALL:
- 4-2' CONDUITS, NONMETAL, TYPE 3 (360LF)
 - DIRECTIONAL BORE, 5' (90LF)
- R10-5A
D3-1(*1)
- INSTALL:
- STRAIN POLE, TP IV W/ 45' MAST ARM (STA 245+25.45, OFFSET 53.47'LT)
 - 15FT LUMINAIRE ARM
 - P2 AND P8 LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, AUDIBLE PUSH BUTTON STATION, AND SIGNS
 - CONDUITS, NONMETAL, TYPE 2, PER GDOT DETAIL
 - PULL BOX, TYPE 3
- INSTALL:
- 4-2' CONDUITS, NONMETAL, TYPE 3 (404LF)
 - DIRECTIONAL BORE, 5' (101LF)
- INSTALL:
- STRAIN POLE, TP IV W/ 55' MAST ARM (STA 245+02.02, OFFSET 42.31'RT)
 - 15FT LUMINAIRE ARM
 - AXIS PTZ 06075
 - P8 LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSH BUTTON STATION, AND SIGN
 - CONDUITS, NONMETAL, TYPE 2, PER GDOT DETAIL
 - PULL BOX, TYPE 3
- INSTALL:
- 10' PEDESTRIAN POLE WITH P6 LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PUSH BUTTON STATION, AND SIGN
 - 2-2' CONDUITS, NONMETAL, TYPE 2
 - PULL BOX, TYPE 2
- INSTALL:
- 3-2' CONDUITS, NONMETAL, TYPE 3 (120LF)
 - 2-PULL BOX, TYPE 3
- INSTALL:
- 4-2' CONDUITS, NONMETAL, TYPE 3 (324LF)
 - DIRECTIONAL BORE, 5' (81LF)
- INSTALL:
- 6'x40' PRESENCE VIDEO DETECTION ZONE (TYP)
- INSTALL:
- 2070LX CONTROLLER IN A 332 QUAD CABINET, WITH PREFABRICATED BASE
 - RELOCATE FIBER DROP CABLE (FDC) FROM EXISTING CABINET TO NEW CABINET
 - INSTALL EMTRAC ST-9283 PRIORITY DETECTOR
 - INSTALL GRIDSMART G2 PROCESSOR
 - INSTALL CISCO CATLYST IE3200 ETHERNET SWITCH
 - CONDUITS, NONMETAL, PER GDOT DETAIL
 - PULL BOX, TYPE 4
- INSTALL:
- POWER SERVICE ASSEMBLY (SEE DETAIL)
 - CONDUIT, GRS, (1) 2", (12LF) FOR POWER SERVICE

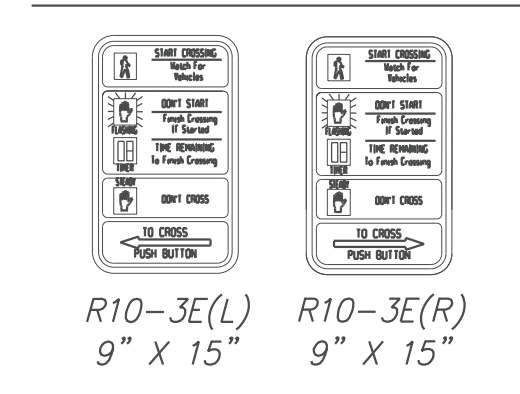
INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGNS



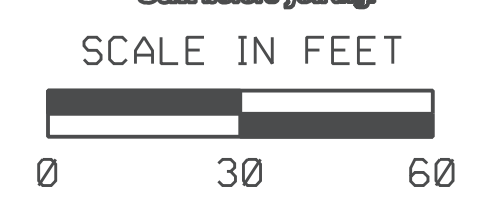
REGULATORY SIGNS



PEDESTRIAN SIGNS



NOTE: POWER SERVICE SHALL BE COORDINATED WITH UTILITY COMPANY BY CONTRACTOR



Scale: 1"=30'
Job:
Issue:
27-0011

INSTALLATION NO. 5
PROPOSED 332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
UPPER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
CHANNEL 1	C1 PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	PH 1	PH 2			PH 3	PH 4					INT ADV	PH 2	PH 6	FLASH
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10			NC	TB-8 4,6	TB-8 7,9
CHANNEL 2	C1 PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		PH 2				PH 4					MCE	PH 4		STOP TIME
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12			NC	TB-8 5,6	TB-8 8,9
LOWER INPUT FILE															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL	2 CHANNEL
CHANNEL 1	C1 PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION	PH 5	PH 6										EVA	EVB	R/R
	FIELD TERM	TB-2 1,2	TB-2 5,6	TB-2 9,10	TB-4 1,2	TB-4 5,6	TB-4 9,10	TB-6 1,2	TB-6 5,6	TB-6 9,10			NC	TB-9 4,6	TB-9 7,9
CHANNEL 2	C1 PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		PH 6										EVC	EVD	
	FIELD TERM	TB-2 3,4	TB-2 7,8	TB-2 11,12	TB-4 3,4	TB-4 7,8	TB-4 11,12	TB-6 3,4	TB-6 7,8	TB-6 11,12			NC	TB-9 5,6	TB-9 8,9

TRAFFIC SIGNAL INSTALLATION NO. 5		
WRIGHTSBORO ROAD @ HIGHLAND AVE		
DESCRIPTION	UNIT	QUANTITY
LIST OF MATERIALS		
CABINET CONTROLLER ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
E. CABINET ASSEMBLY, MODEL CLAD QUAD 332	EA	1
F. SWITCH PACK (LOAD SWITCH)	EA	16
G. DC ISOLATOR	EA	3
K. 2010 SIGNAL MONITOR, TYPE B (ETHERNET)	EA	1
M. AUXILIARY OUTPUT FILE	EA	1
PREFABRICATED WORK PAD	EA	2
CL40 PREFABRICATED CONTROLLER CABINET BASE	EA	1
PC642-200 (OR EQUIVALENT), SURGE PROTECTOR	EA	1
GRIDSMA RT G2 PROCESSOR	EA	1
GRIDSMA RT BELL CAMERA VDS	EA	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT), 3 PAIR 18 AWG	REEL	2
SIGNAL CABLE (14AWG), 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (STANDARD 3 STACK CONFIG)	EA	8
3-SECTION, 12" SIGNAL HEAD LED "INCANDESCENT LOOK", YELLOW HOUSING W/BLACK FRONT, PLASTIC (BIMODEL CONFIG)	EA	4
1-SECTION, 16"x18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP (9" HIGH NUMBERS & 12" SYMBOLS), BLACK	EA	8
PEDESTRIAN PUSH BUTTON STATIONS, W/ BUTTONS AND SIGNS (ADA COMPLIANT BOPM3-X, PIEZO ELECTRIC): 9" X 15", R10-3E, (LEFT OR (R)IGHT, COUNTDOWN, BLACK		
1. 9"x15", R10-3EL, COUNTDOWN	EA	4
2. 9"x15", R10-3ER, COUNTDOWN	EA	4
PEDESTRIAN PUSHBUTTON STATION ADAPTERS (ONLY)		
1. 9"x15", DOUBLE PUSHBUTTON STATION ADAPTER FOR 4" DIA PEDESTRIAN POLE, ADJUSTABLE, BLACK	EA	3
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD, ABS PLASTIC, BLACK w/ RETROREFLECTIVE STRIP	EA	12
HARDWARE FOR MAST ARM MOUNTING	EA	12
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY (BLACK)	EA	3
PEDESTAL POLE & SQUARE BASE (BLACK)	EA	3
PULL BOX, PB-2	EA	3
PULL BOX, PB-3	EA	4
PULL BOX, PB-4	EA	1
CONDUIT, 1"	LF	40
CONDUIT, 2"	LF	60
CONDUIT, RIGID, 2"	LF	60
R10-5A, LEFT TURN ON FLASHING YELLOW ARROW SIGN	EA	4
R560-5 W/ POST	EA	1
R1-2 YIELD SIGN W/ POST	EA	1
MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS FOR TRAFFIC SIGNAL INSTALLATION NO. 5		
DESCRIPTION	UNIT	QUANTITY
DIRECTIONAL BORE PIPE - 5 IN.	LF	272
CONDUIT, NONMETAL, TP 2, 2 IN	LF	1238
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 45' MAST ARM (BLACK)	EA	1
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 50' MAST ARM (BLACK)	EA	1
STEEL STRAIN POLE, TP IV, INCL 15 FT LUMINAIRE ARM W/ SINGLE 55' MAST ARM (BLACK)	EA	2
TRAFFIC SIGNAL INSTALLATION NO.5	LS	1
ELECTRICAL POWER SERVICE ASSEMBLY (AERIAL SERVICE POINT)	EA	1
INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	EA	1
OUTPUT EXPANSION MODULE, TYPE A	EA	1
CCTV SYSTEM, TYPE H	EA	1
INTERNALLY ILLUMINATED STREET SIGN DOUBLE SIDED	EA	4
INTERNALLY ILLUMINATED STREET SIGN CONTROL ASSEMBLY	EA	4
MISC. MATL. TO COMPLETE INSTALLATION	LUMP	

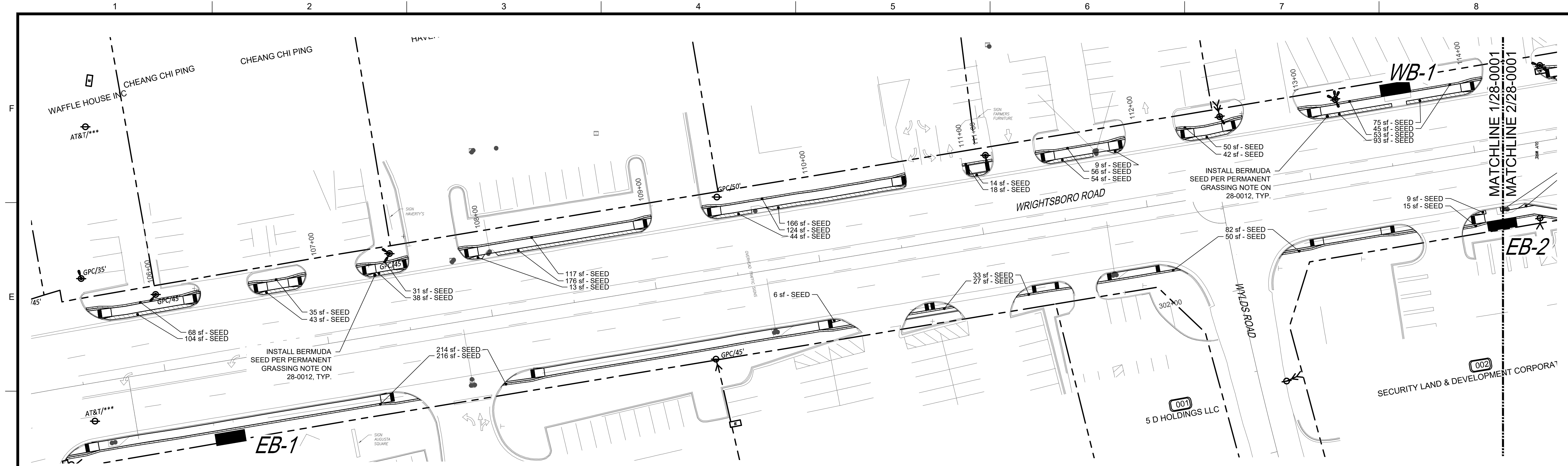


REV	DATE	DESCRIPTION	SUBMITAL TO COUNTY	INITIALS	QUANTITIES
1	1/20/22	UPDATED QUANTITIES			

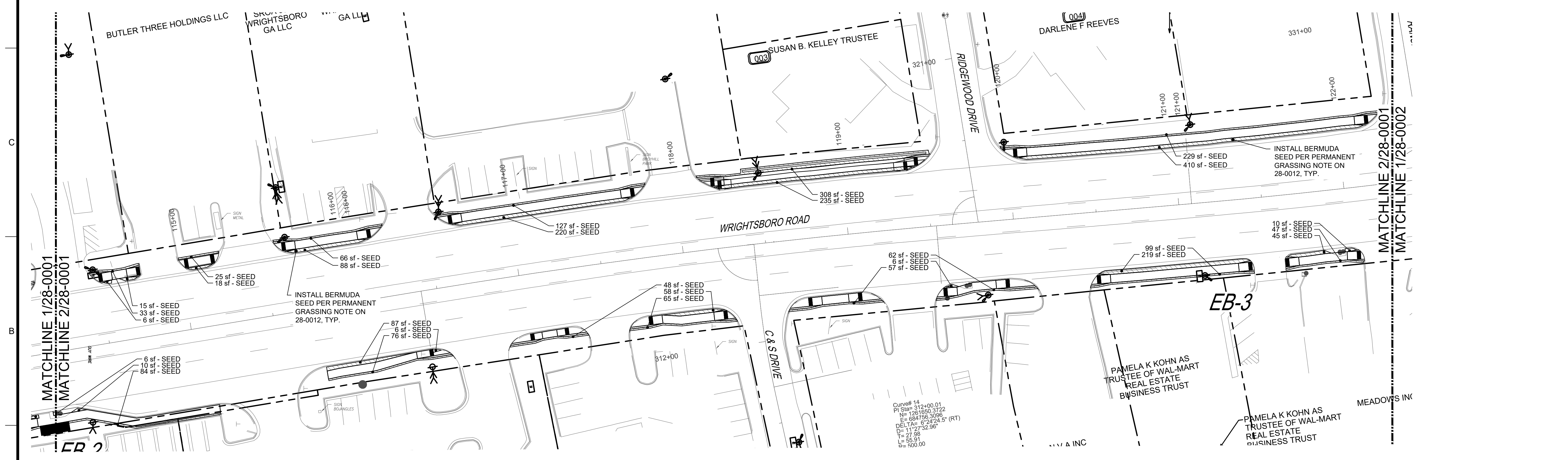
HIGHLAND AVE (INSTALLATION 5)
INPUT ASSIGNMENTS / LIST OF MATERIALS / PAY ITEMS

SIGNAL PLANS
Scale: NTS
Job:
Issue:
27-0012



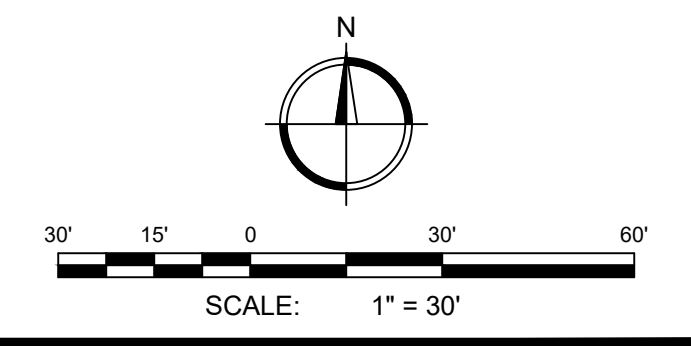


1 WRIGHTSBORO ROAD LANDSCAPE
28-0001 START OF LANDSCAPE AREAS TO STA. 114+00



2 WRIGHTSBORO ROAD LANDSCAPE
28-0001 STA. 114+00 TO STA. 122+25

Curve# 14
PI Sta= 312+00.01
P Sta= 120+650.3722
N= 684758.3096
E= 684758.3096
DELTA= 6°24'24.9" (RT)
D= 1127.3296
L= 27.98
Lc= 55.91
G= 500.00



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535 TELFAIR ST. AUGUSTA, GA 30901
PROJECT NAME: **WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS**
PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA

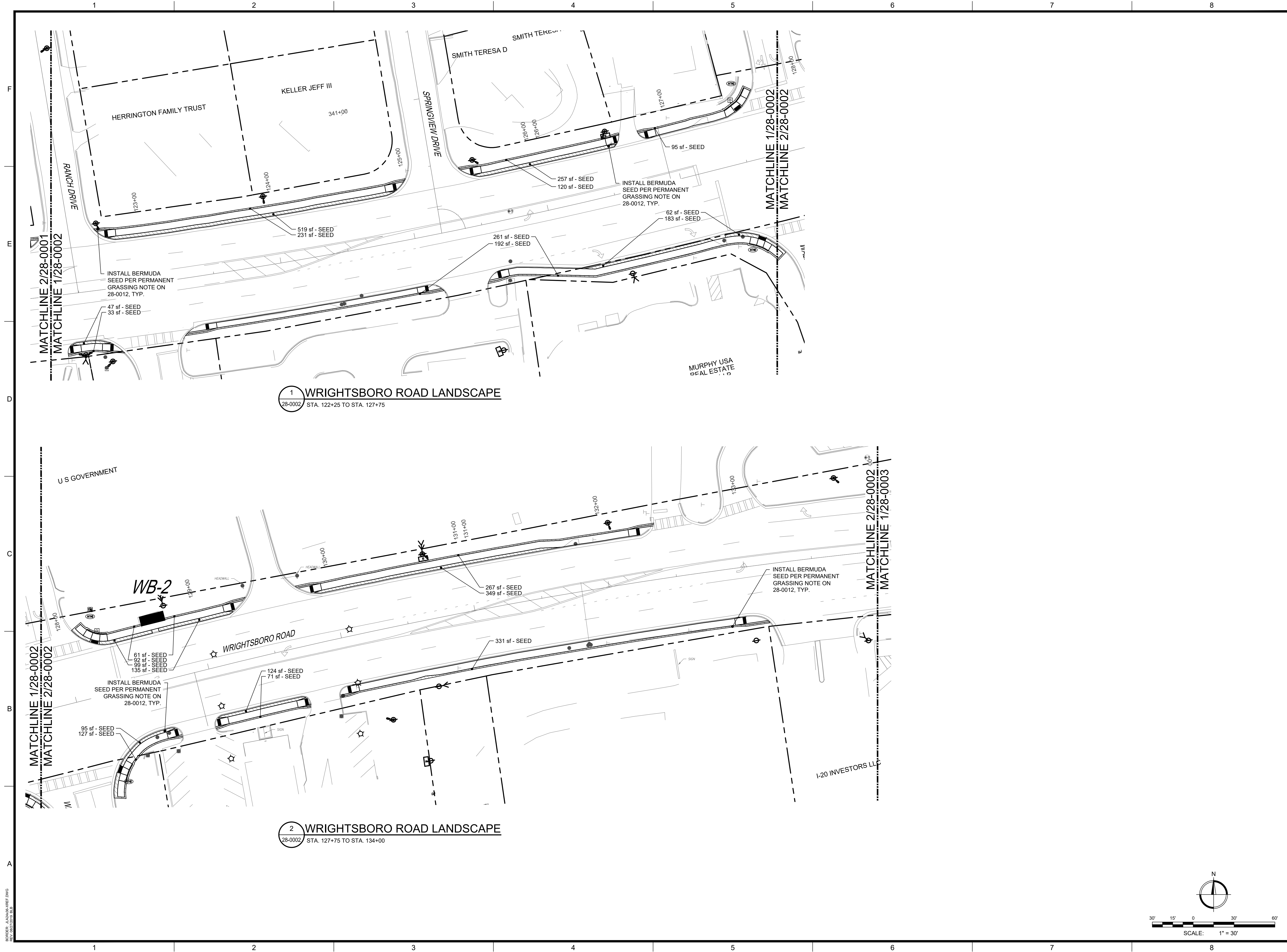
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
ALEXANDRA WHITNEY REYNOLDS
No. LA001905
EXPIRES 12-31-2024
JOHNSON, LASCHNER & ASSOC., P.C.
No. PE000358
EXPIRES 06-30-2024
OFFICE OF AUTHORITY

REV.	DATE	BY	DESCRIPTION
1	12/21/22	RDH	ISSUED FOR BID-REVISION #1
0	10/19/22	RDH	ISSUED FOR BID

PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022
SHEET TITLE:
LANDSCAPE PLAN SHEET 1 OF 10
SCALE: 1" = 30"
DRAWING NO. **28-0001** REV. 1

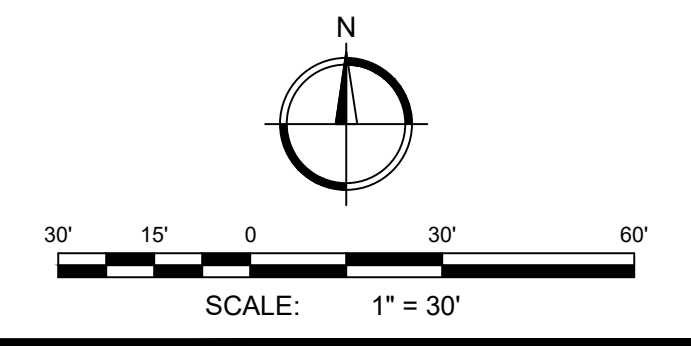
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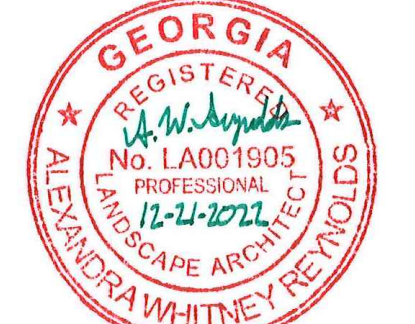
1 WRIGHTSBORO ROAD LANDSCAPE
28-0002 STA. 122+25 TO STA. 127+75

2 WRIGHTSBORO ROAD LANDSCAPE
28-0002 STA. 127+75 TO STA. 134+00



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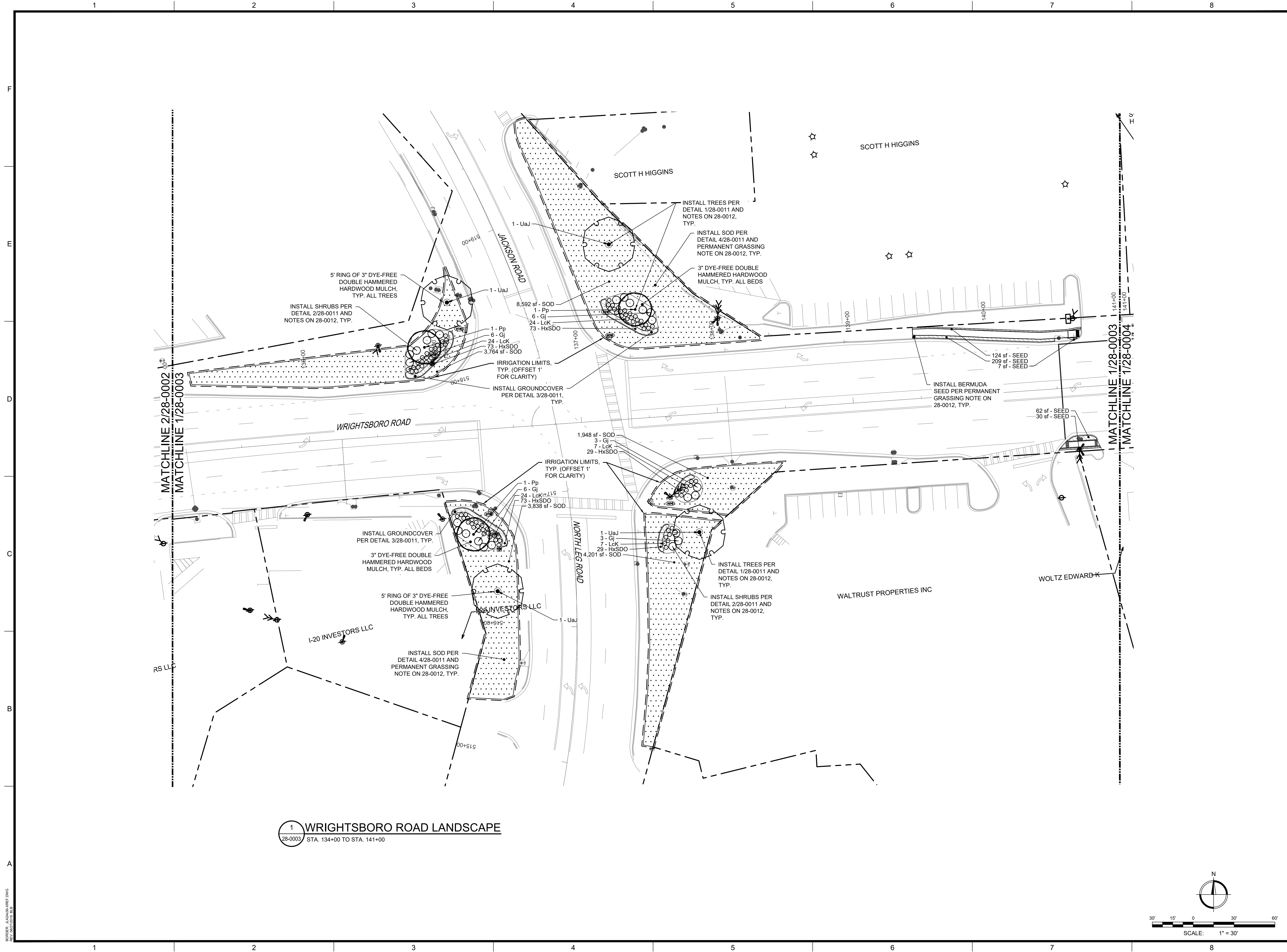
CLIENT: CITY OF AUGUSTA
535 TELFAIR ST. AUGUSTA, GA 30901
PROJECT NAME: **WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS**
PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA



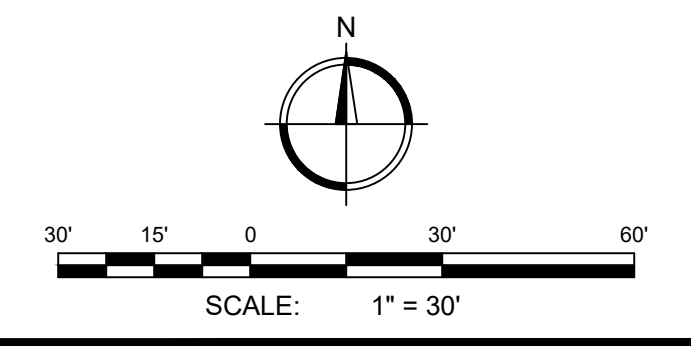
REV	DATE	BY	DESCRIPTION
1	12/21/22	RDH	ISSUED FOR BID-REVISION #1
0	10/19/22	RDH	ISSUED FOR BID

PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022
SHEET TITLE:
LANDSCAPE PLAN SHEET 2 OF 10
SCALE: 1" = 30'
DRAWING NO. **28-0002** REV. **1**

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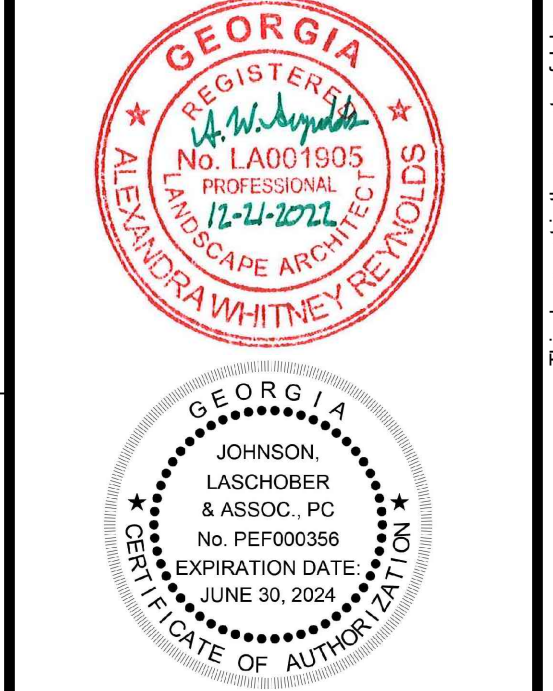


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28-0003 STA. 134+00 TO STA. 141+00



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PROJECT NAME: **WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS**
PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA



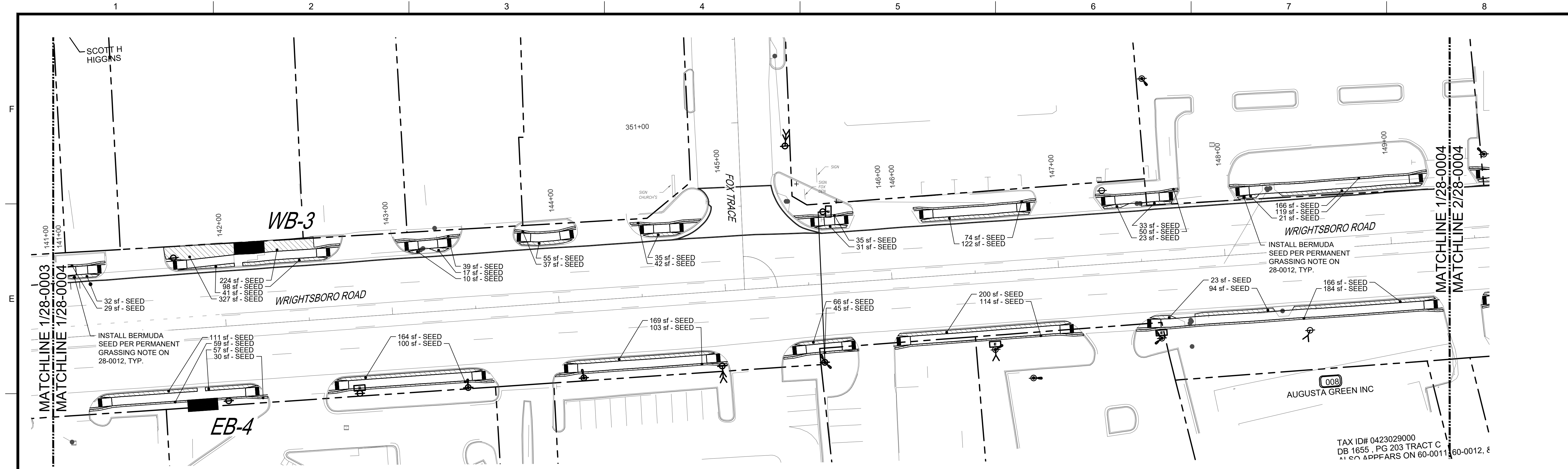
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0	10/19/22	RDH	ISSUED FOR BID

PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022

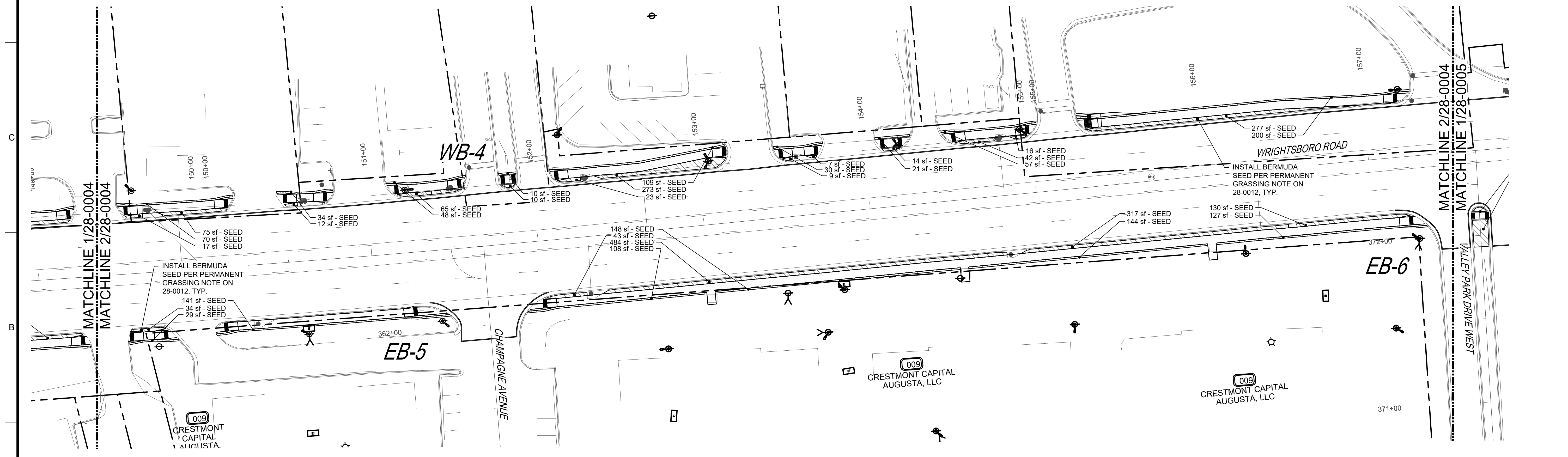
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LANDSCAPE PLAN SHEET 3 OF 10

SCALE: 1" = 30'
DRAWING NO. **28-0003** REV. **1**

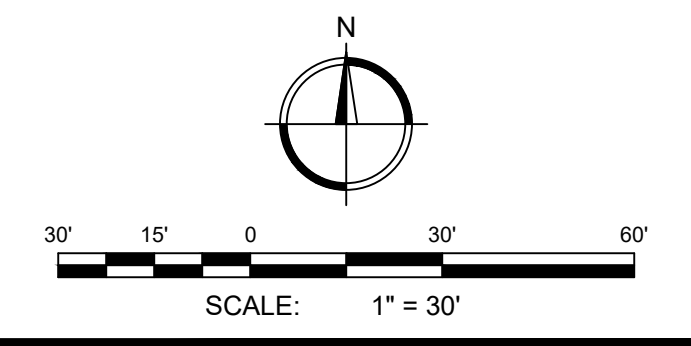
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28-0004 STA. 141+00 TO STA. 149+00



2 WRIGHTSBORO ROAD LANDSCAPE
28-0004 STA. 149+00 TO STA. 157+50

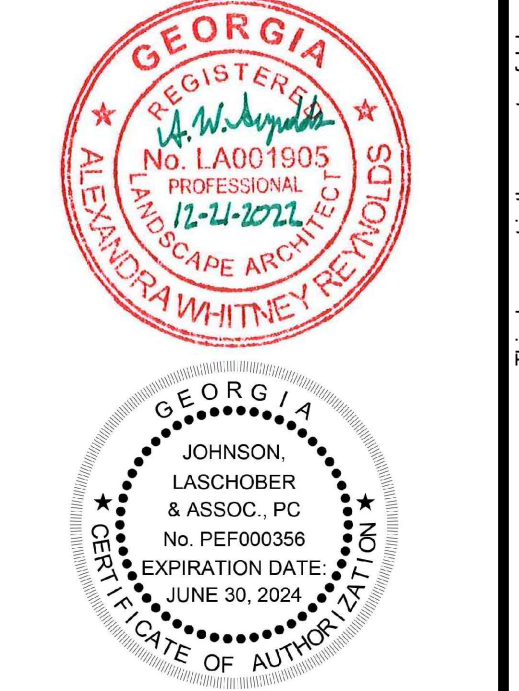


CITY OF AUGUSTA
535 TELFAIR ST. AUGUSTA, GA 30901

**WRIGHTSBORO ROAD
RECONSTRUCTION AND
PEDESTRIAN IMPROVEMENTS**

PROJECT LOCATION:
WRIGHTSBORO ROAD AUGUSTA, GA

TAX ID# 0423029000
DB 1655, PG 203 TRACT C
ALSO APPEARS ON 60-0011, 60-0012, 8



REV	DATE	BY	DESCRIPTION
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0	10/19/22	RDH	ISSUED FOR BID

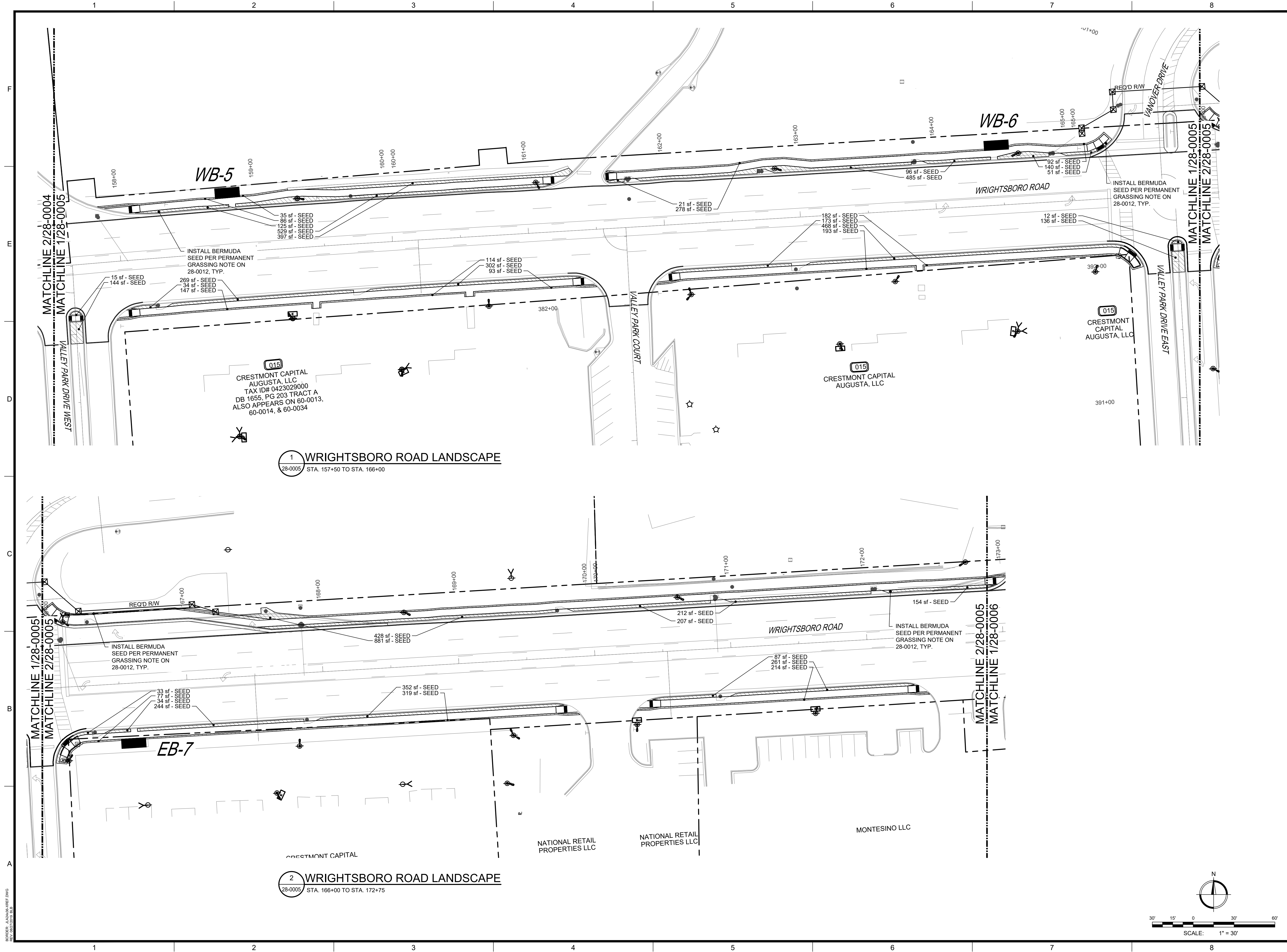
PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022

SHEET TITLE:
**LANDSCAPE PLAN
SHEET 4 OF 10**

SCALE: 1" = 30'
DRAWING NO. **28-0004** REV. 1

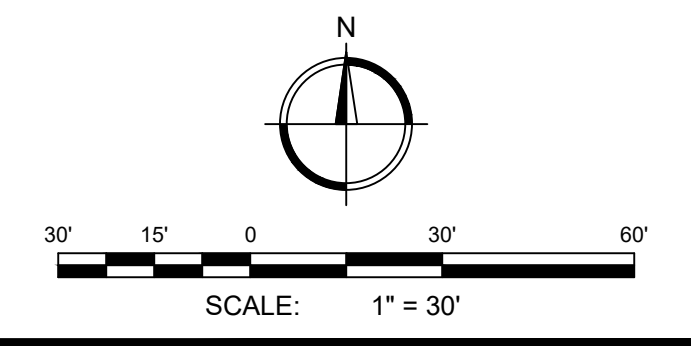
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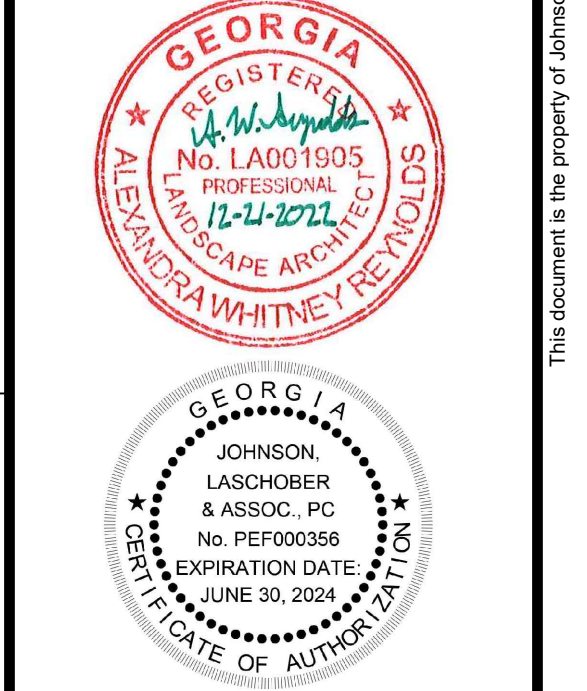
1 WRIGHTSBORO ROAD LANDSCAPE
28-0005 STA. 157+50 TO STA. 166+00

2 WRIGHTSBORO ROAD LANDSCAPE
28-0005 STA. 166+00 TO STA. 172+75



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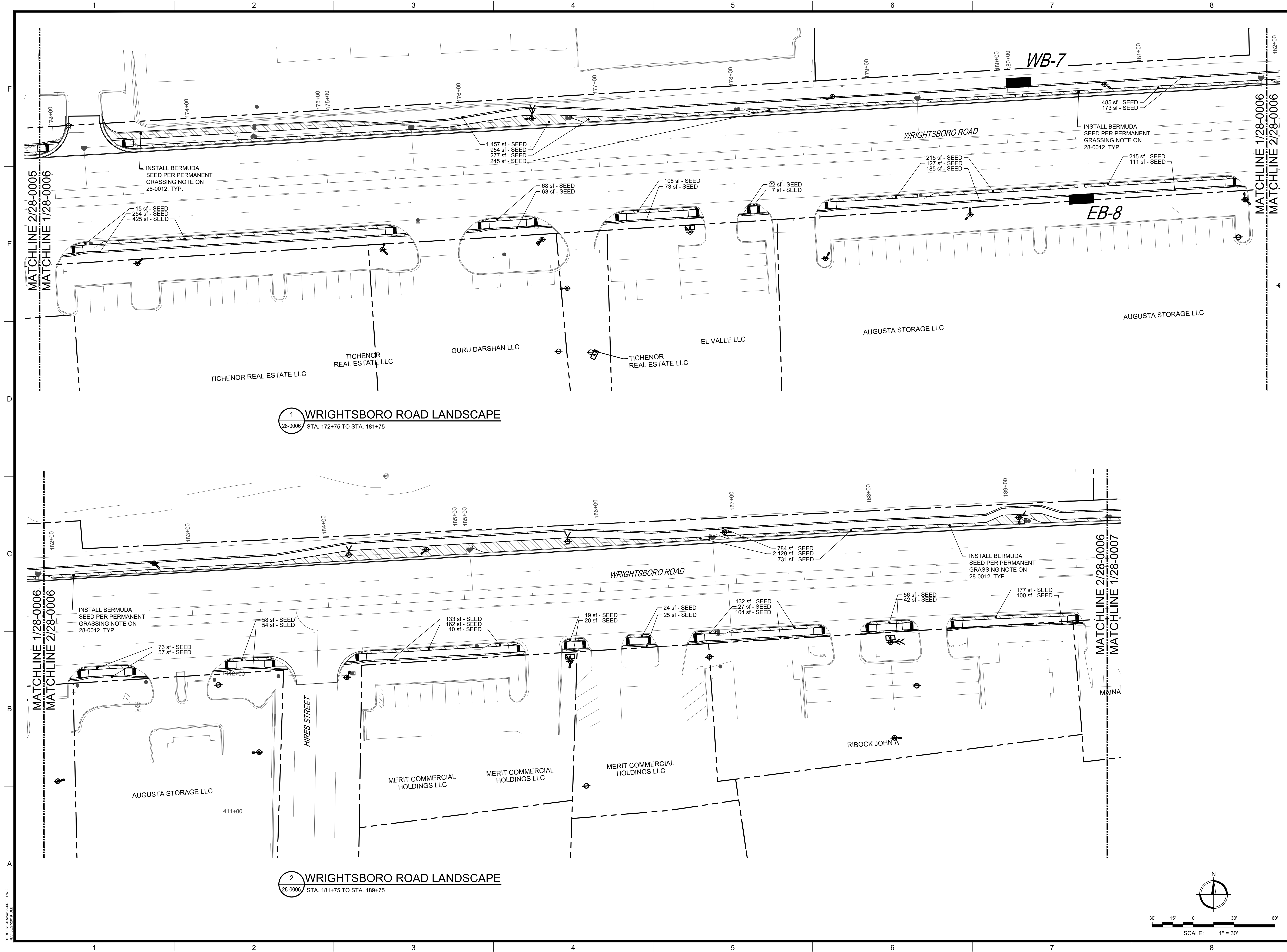
CITY OF AUGUSTA
535 TELFAIR ST. AUGUSTA, GA 30901
PROJECT NAME: **WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS**
PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA



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1	12/21/22	RDH	ISSUED FOR BID-REVISION #1
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PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022
SHEET TITLE: **LANDSCAPE PLAN SHEET 5 OF 10**
SCALE: 1" = 30'
DRAWING NO. **28-0005** REV. **1**

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PROJECT NAME:
**WRIGHTSBORO ROAD
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PROJECT LOCATION:
WRIGHTSBORO ROAD AUGUSTA, GA



REV	DATE	BY	DESCRIPTION
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0	10/19/22	RDH	ISSUED FOR BID

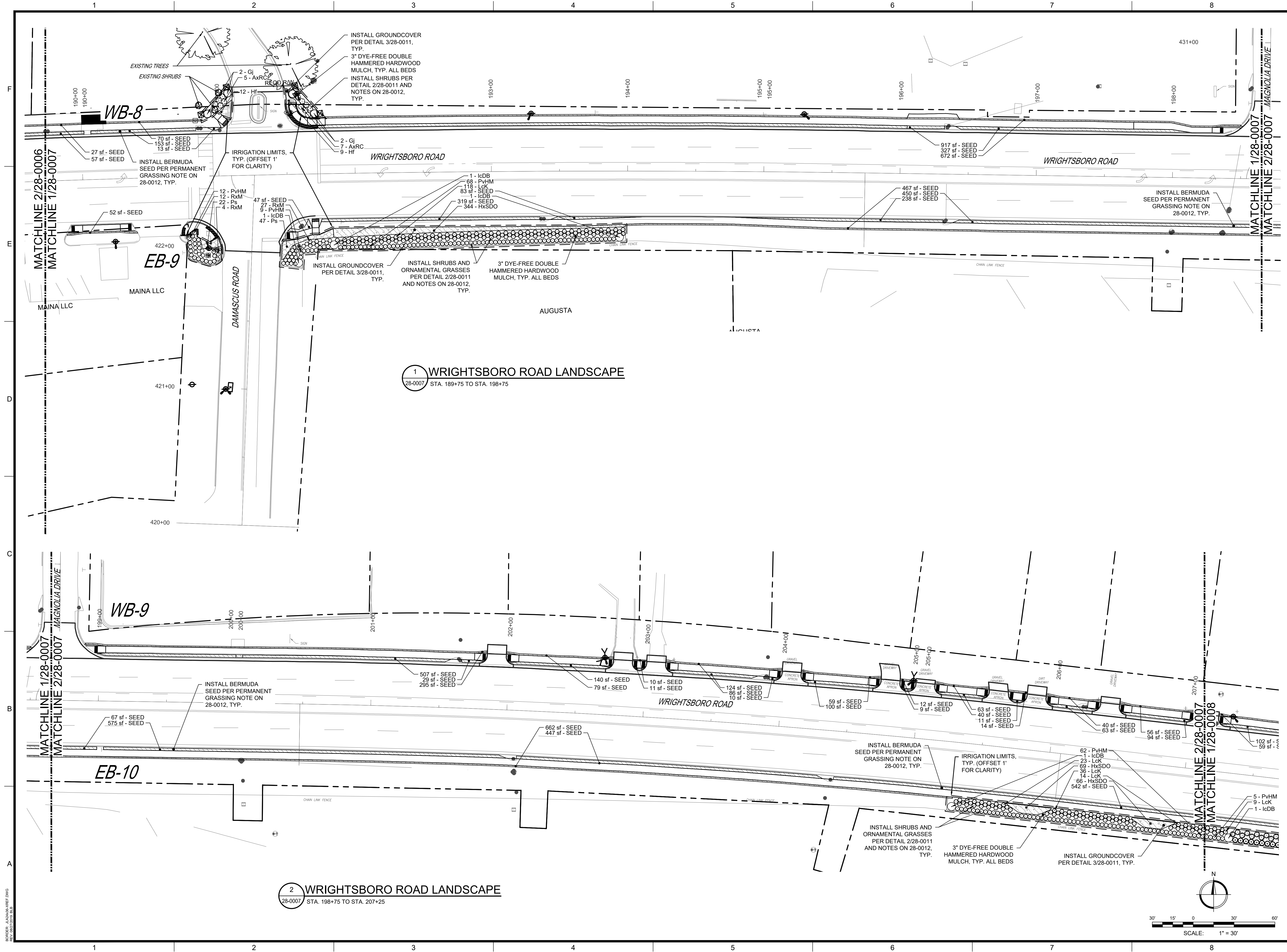
PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022

SHEET TITLE:
**LANDSCAPE PLAN
SHEET 6 OF 10**

SCALE: 1" = 30'

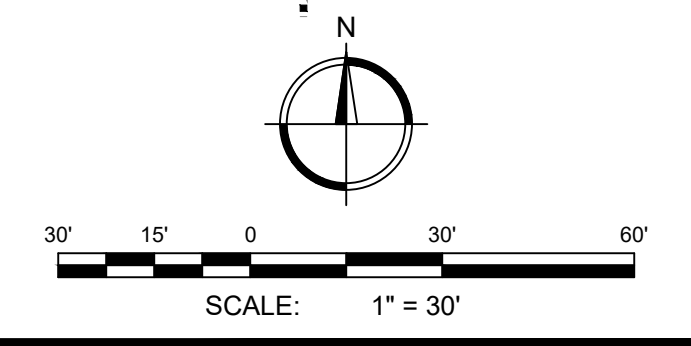
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 STA. 198+75 TO STA. 207+25



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PROJECT NAME: **WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS**

PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA

REV	DATE	BY	DESCRIPTION
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0	10/19/22	RDH	ISSUED FOR BID

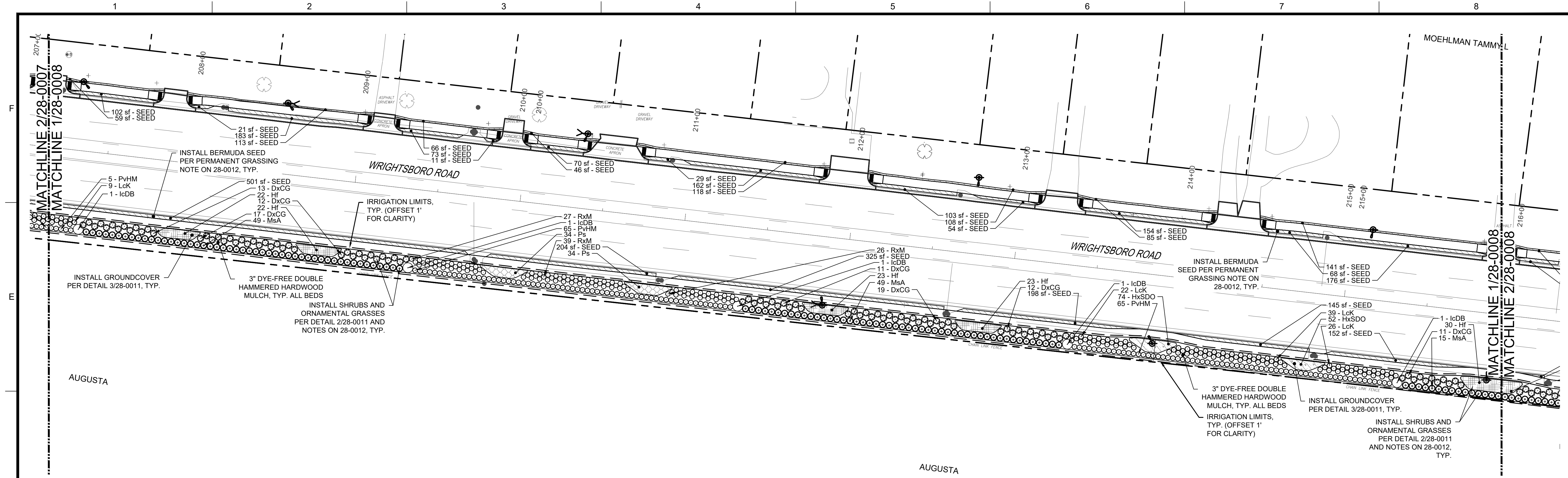
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 DRAWN BY: AWR
 CHECKED BY: RDH
 DATE: 10/19/2022

SHEET TITLE:
LANDSCAPE PLAN SHEET 7 OF 10

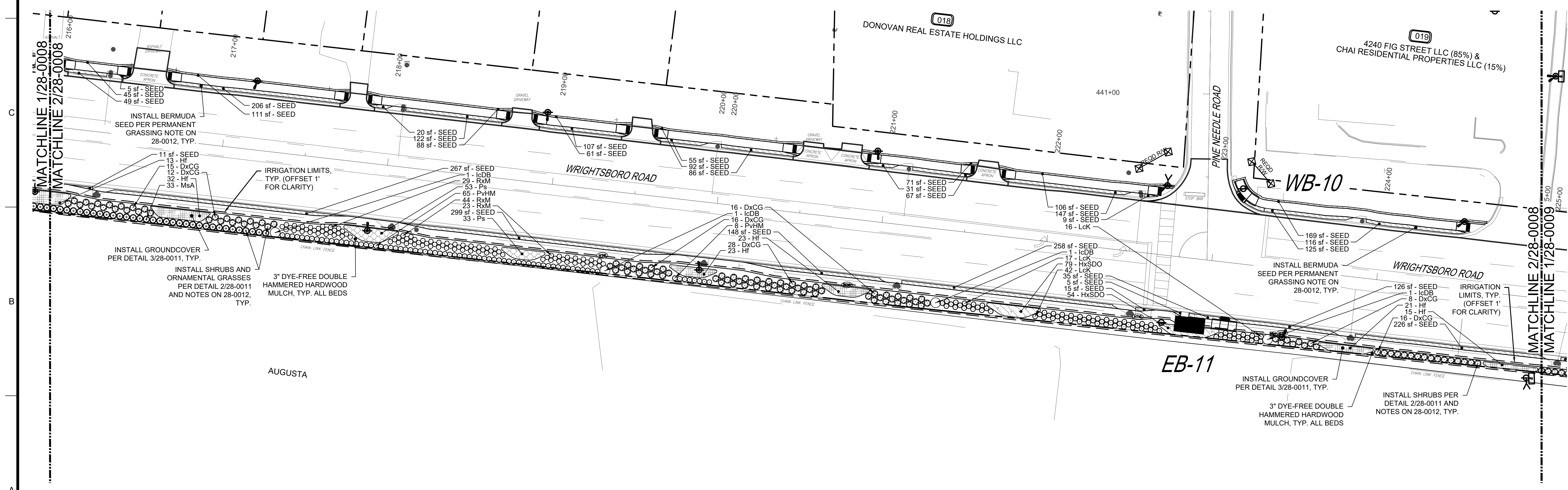
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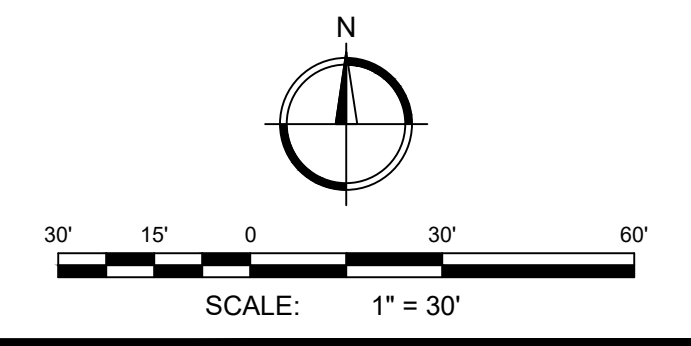
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2 WRIGHTSBORO ROAD LANDSCAPE
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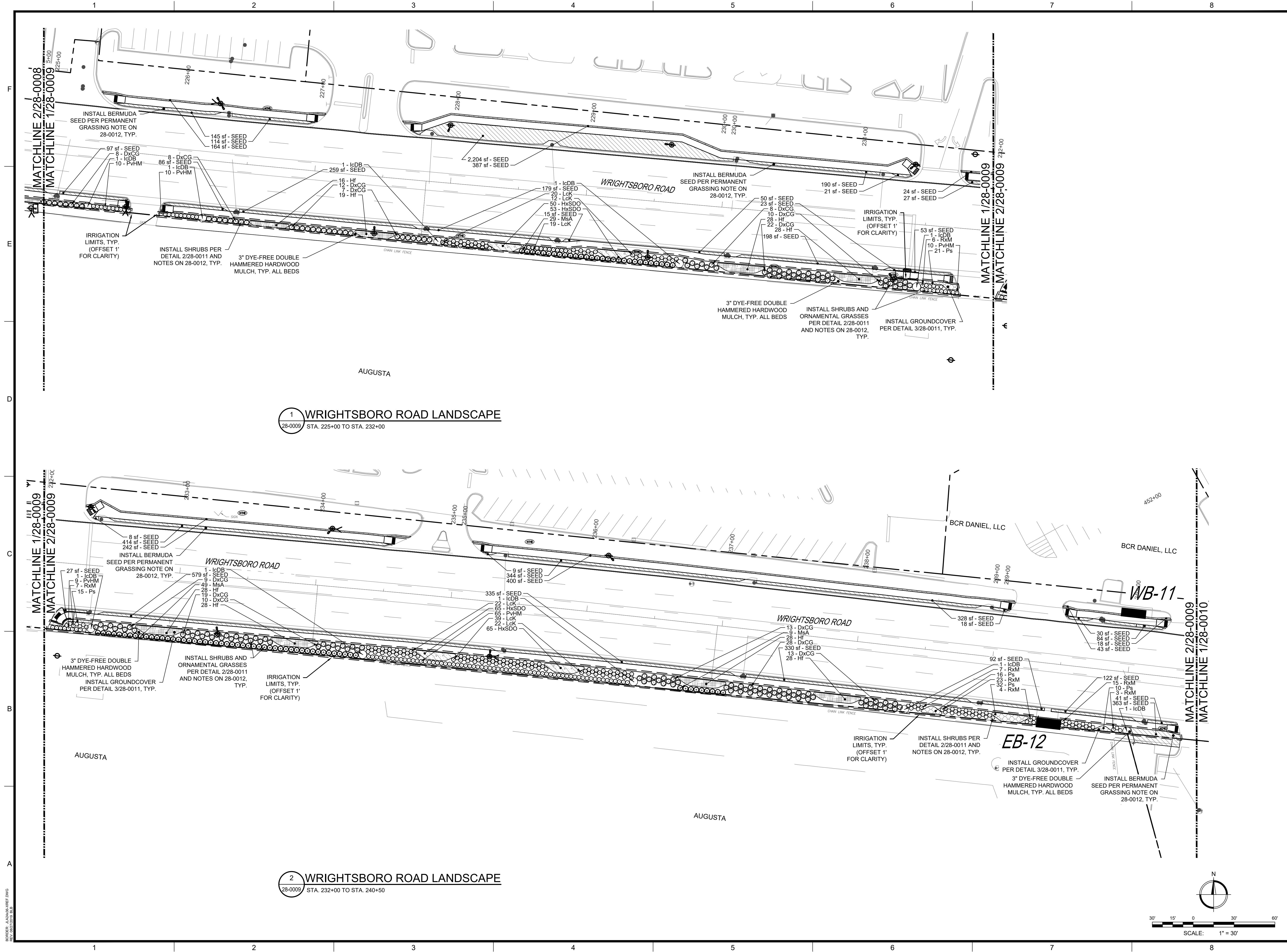
CLIENT: CITY OF AUGUSTA
 535 TELFAIR ST. AUGUSTA, GA 30901
 PROJECT NAME: **WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS**
 PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
 No. LA001905
 PROFESSIONAL EXPIRATION DATE: JUNE 30, 2024
 CERTIFICATE OF AUTHORITY

REV	DATE	BY	DESCRIPTION
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0	10/19/22	RDH	ISSUED FOR BID

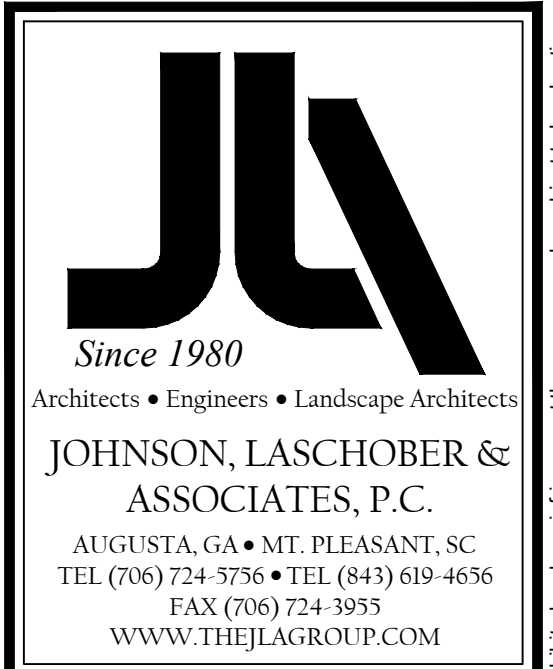
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 CHECKED BY: RDH
 DATE: 10/19/2022
 SHEET TITLE:
LANDSCAPE PLAN SHEET 8 OF 10
 SCALE: 1" = 30'
 DRAWING NO. **28-0008** REV. 1

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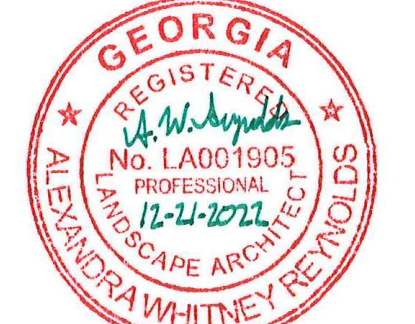
2 WRIGHTSBORO ROAD LANDSCAPE
28-0009 STA. 232+00 TO STA. 240+50



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WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS

PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA



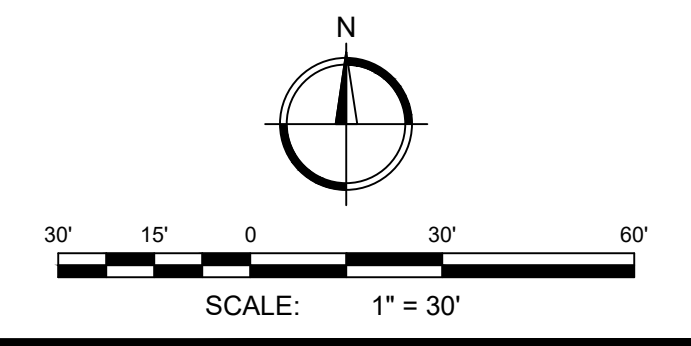
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0	10/19/22	RDH	ISSUED FOR BID

PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022

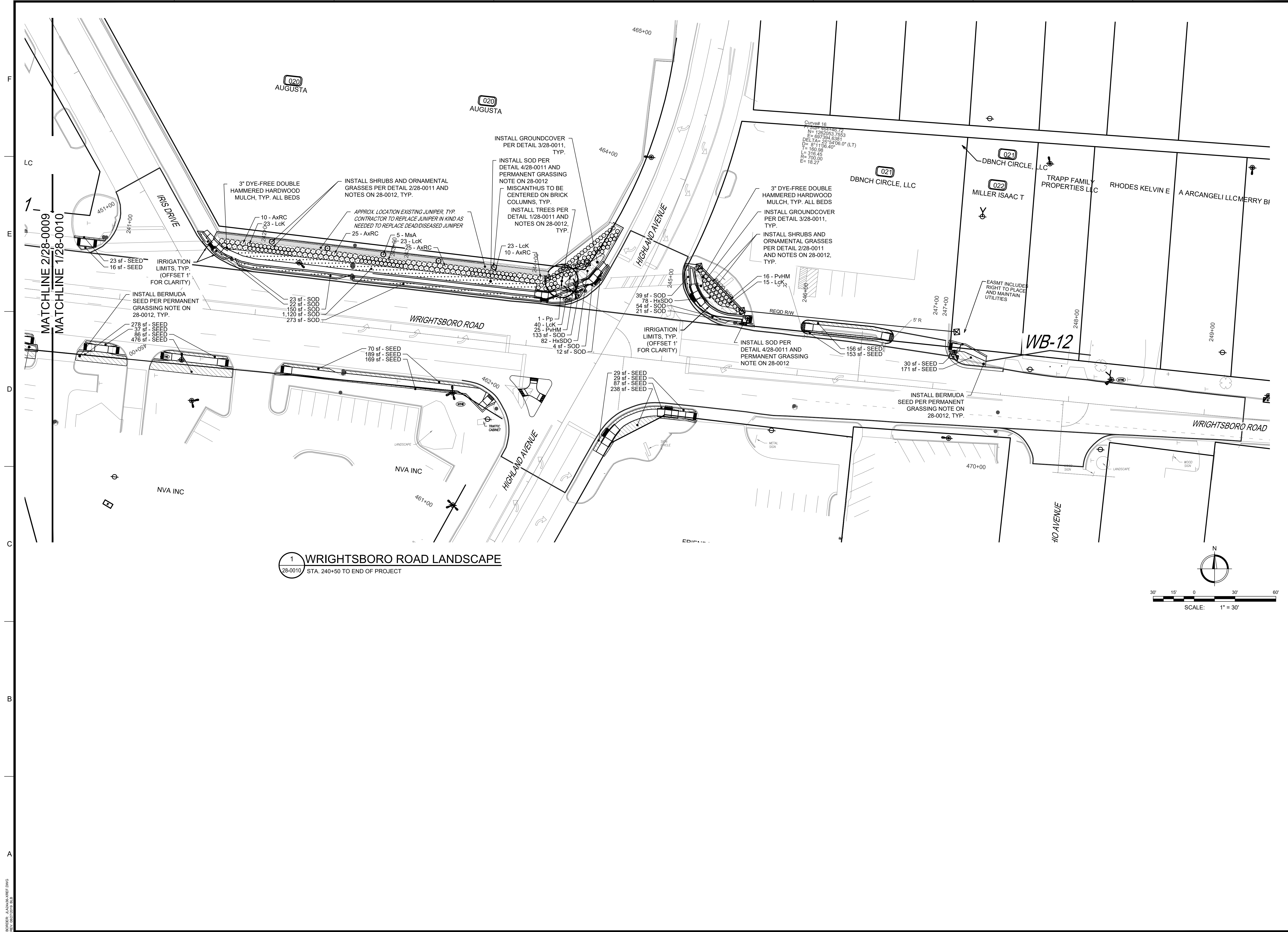
SHEET TITLE:
LANDSCAPE PLAN SHEET 9 OF 10

SCALE: 1" = 30'

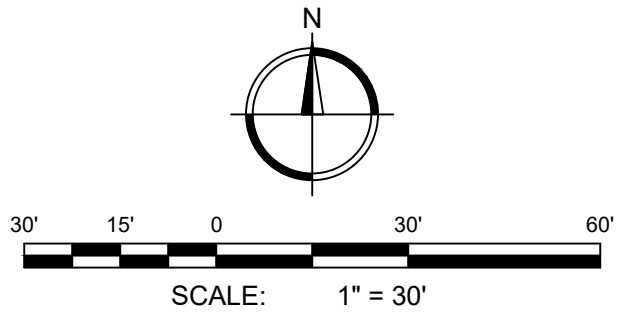
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28-0010 STA. 240+50 TO END OF PROJECT



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PROJECT NAME:
WRIGHTSBORO ROAD
RECONSTRUCTION AND
PEDESTRIAN IMPROVEMENTS

PROJECT LOCATION:
WRIGHTSBORO ROAD AUGUSTA, GA

REV	DATE	BY	DESCRIPTION
1	12/21/22	RDH	ISSUED FOR BID-REVISION #1
0	10/19/22	RDH	ISSUED FOR BID

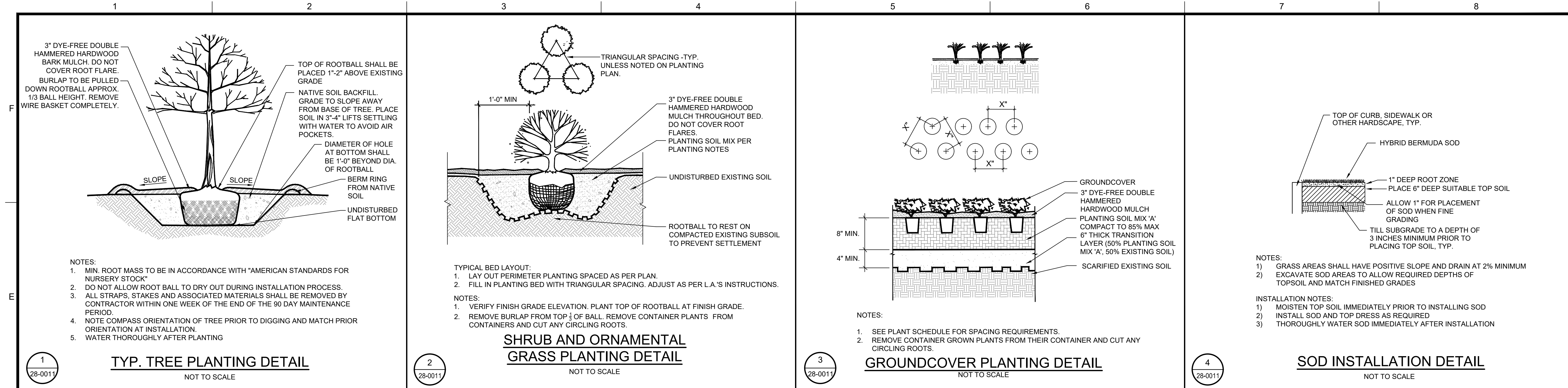
PROJECT NO. 1144.2001
DRAWN BY: AWR
CHECKED BY: RDH
DATE: 10/19/2022

SHEET TITLE:
**LANDSCAPE PLAN
SHEET 10 OF 10**

SCALE: 1" = 30'
DRAWING NO. **28-0010** REV. **1**

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PLANT SCHEDULE CONTRACTOR RESPONSIBLE FOR THEIR OWN QUANTITY TAKE-OFFS

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Pp	Parrotia persica	Persian Parrotia	3" Cal.	B&B	4	
	UaJ	Ulmus americana 'Jefferson'	American Elm	3" Cal.	B&B	4	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	AxRC	Abelia x 'Rose Creek'	Rose Creek Abelia	3 gal.	Pot	82	4' OC
	DxCG	Distylium X 'PIIDIST-V' TM	Cinnamon Girl Distylium	3 gal.	Pot	373	4' OC
	Gj	Gardenia jasminoides 'August Beauty'	Gardenia	3 gal.	Pot	28	AS SHOWN
	lcDB	Ilex cornuta 'Dwarf Burford'	Dwarf Burford Holly	6-8" H	B&B	23	TREE FORM
	LcK	Loropetalum chinense 'Kurenai' TM	Jazz Hands Dwarf Pink Loropetalum	2 gal.	Pot	706	3' OC
	MsA	Miscanthus sinensis 'Adagio'	Adagio Eulalia Grass	3 gal.	Pot	238	4' OC
	PvHM	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	3 gal.	Pot	504	3' OC
	RxM	Rosa x 'Meisentmii' TM	Lemon Drift Rose	2 gal.	Pot	296	3' OC
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	SEED	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	seed	N/A	59,165 sf	
	SOD	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	sod	N/A	24,210 sf	
	Hf	Hemerocallis fulva	Orange Daylily	4"	Pot	471	2.5' OC
	HxSDO	Hemerocallis x 'Stella de Oro'	Stella de Oro Daylily	1 gal.	Pot	1,408	18' OC
	Ps	Phlox subulata	Creeping Phlox	4"	Pot	321	2' O.C.

NOTE: THE LANDSCAPE ARCHITECT HAS SELECTED PLANT VARIETIES THAT ATTAIN SPECIFIC SIZES. ANY PROPOSED SUBSTITUTIONS TO THE PLANT SCHEDULE DUE TO AVAILABLE SUPPLY MUST BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.

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JOHNSON, LASCHOBER & ASSOCIATES, P.C.
 AUGUSTA, GA • MT. PLEASANT, SC
 TEL (706) 724-5756 • TEL (843) 619-4656
 FAX (706) 724-3935
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CITY OF AUGUSTA
 535 TELFAIR ST. AUGUSTA, GA 30901

WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS

CLIENT: CITY OF AUGUSTA
 PROJECT NAME: WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
 PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA

REV	DATE	BY	DESCRIPTION
1	12/21/22	RDH	ISSUED FOR BID-REVISION #1
0	10/19/22	RDH	ISSUED FOR BID

PROJECT NO. 1144.2001
 DRAWN BY: AWR
 CHECKED BY: RDH
 DATE: 10/19/2022

SHEET TITLE:
LANDSCAPE DETAILS

SCALE: AS NOTED

DRAWING NO. **28-0011** REV. **1**

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 10/19/2022 10:08 AM

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AUGUSTA TREE NOTES

- ILLUSTRATED TREE ORDINANCE SECTION 6.5
- CONTRACTOR MUST CONTACT THE AUGUSTA PLANNING DEPARTMENT TO SET UP A PRE-CONSTRUCTION MEETING PRIOR TO ANY TREE DISTURBANCE.
 - ALL TREE PROTECTION DEVICES MUST BE INSTALLED PRIOR TO INSPECTION BY THE CODE INSPECTION OFFICER AND PRIOR TO ANY TREE DISTURBANCE ACTIVITIES.
 - REMOVAL OR DAMAGE OF TREES IN THE CONSERVATION AREA WILL BE SUBJECT TO THE PENALTIES ESTABLISHED IN THE PENALTIES SECTION OF THIS ORDINANCE.
 - THESE PLANS SHALL BE REVIEWED BY THE CODE INSPECTION OFFICER FOR CONFORMANCE WITH APPLICABLE PROVISIONS OF THIS SECTION AND FOR TREE AND VEGETATION VIABILITY. THE PLANS WILL EITHER BE APPROVED OR RETURNED FOR REVISIONS. REASONS FOR RETURN SHALL BE NOTED ON THE PROPOSED PLAN.
 - ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO INSPECTION OF CODE INSPECTION OFFICER AND PRIOR TO TREE DISTURBANCE.
 - THE CODE INSPECTION OFFICER WILL CONDUCT FOLLOW-UP SITE INSPECTIONS FOR ENFORCEMENT OF THE TREE PROTECTION REQUIREMENTS.
 - TREE ORDINANCE SECTION 8-4-13(d)(7)(c)
 - NO LIGHTING CAN BE WITHIN 20' OF A REQUIRED TREE OR WITHIN A REQUIRED LANDSCAPE ISLAND.
 - LIGHTING ON THE ELECTRICAL PLAN MUST BE CONSISTENT WITH LIGHTING DELINEATED ON THE TREE PROTECTION/TREE ESTABLISHMENT PLAN; IF CONFLICTS BETWEEN THE TWO PLANS ARISE, THE LIGHTING ON THE TREE PROTECTION/TREE ESTABLISHMENT PLAN SUPERSEDES LIGHTING ON THE ELECTRICAL PLAN.
 - NO SIGNS, WITH THE EXCEPTION OF SMALL DIRECTIONAL SIGNS (THESE SIGNS MAY NOT EXCEED (30") IN HEIGHT NOR MORE THAN (4 SQ. FT.) IN AREA), MAY BE LOCATED WITHIN 20' OF A REQUIRED TREE OR WITHIN REQUIRED LANDSCAPE ISLANDS.
 - NO BICYCLE RACKS, FIRE HYDRANTS, UTILITY BOXES, TRANSFORMERS OR OTHER SITE APPURTENANCES MAY BE LOCATED IN REQUIRED LANDSCAPE ISLANDS.
 - TREE ORDINANCE SECTION 8-4-13(d)(8)
 - A PERMANENT WATER SOURCE MUST BE WITHIN 100' OF ALL REQUIRED TREES.
 - TREE ORDINANCE SECTION 8-4-13(d)(12)
 - NO NEW UTILITIES (UNDERGROUND OR OVERHEAD) MAY BE LOCATED DIRECTLY ABOVE OR BELOW EXISTING OR PROPOSED TREE LOCATIONS. PROPOSED UTILITIES MUST BE ROUTED AWAY FROM ALL REQUIRED TREES ON THIS SITE.
 - TREE ORDINANCE SECTION 8-4-13(g)
 - ALL REQUIRED TREES ARE RECOMMENDED TO BE GROWN WITHIN ONE CLIMATIC ZONE OF AUGUSTA, GA.
 - TREES PLANTED FOR CANOPY COVER CREDIT SHALL MEET QUALITY AND SIZE STANDARDS AS DESCRIBED IN THE ANSI Z 60.1 AMERICAN STANDARD FOR NURSERY STOCK DATED 1990 AND PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, AS OFFICIALLY REVISED AND AMENDED FROM TIME TO TIME. ALL TREES SHALL BE PER IGO LIST.
 - ALL TREES SELECTED FOR PLANTING SHOULD BE OF URBAN TOLERANT SPECIES AND SUITABLE FOR THE SITE CONDITIONS OF PLANTING LOCATION, INCLUDING GROWING SPACE LIMITS, SOIL MOISTURE, SOIL VOLUME, AND CLASSIFIED AS WATER WISE PLANT ONCE ESTABLISHED. ALL TREES SHALL BE PER IGO LIST.
 - ALL REQUIRED TREES SHALL BE NURSERY GROWN, TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. TREES SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, FREE FROM DISFIGURING KNOTS, FREE FROM SUN SCALD INJURIES, FROST CRACKS AND/OR ABRASIONS OF THE BARK, AND BE FREE FROM PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION. ALL TREES SHALL HAVE A FULLY DEVELOPED FORM WITHOUT Voids AND OPEN SPACE. TREES SHALL NOT BE LOOSE IN THE CONTAINER OR ROOT BALL. IT IS RECOMMENDED THAT DUG TREES SHALL HAVE BEEN ROOT PRUNED AT LEAST ONCE.
 - ALL REQUIRED TREES SHALL HAVE STRAIGHT, SINGLE CENTRAL LEADERS. TREES THAT HAVE THE MAIN TRUNK FORMING A "Y" SHAPE ARE NOT ACCEPTABLE. TREES THAT ARE NOT FULLY BRANCHED WILL NOT BE ACCEPTED. TREES SHALL HAVE NO BARK DAMAGE AND SHALL NOT BE LEANING OR HAVE SIGNIFICANT SWEEP, CROOK, OR BEND. **TREES SHALL HAVE A MINIMUM 3" CALIPER** AND SHALL HAVE NO BRANCH MORE THAN HALF THE DIAMETER OF THE MAIN LEADER AND SHALL A STRAIGHT UNBRANCHED TRUNK TO 6'. TREES SPECIFIED AS "MULTI-STEMMED" SHALL HAVE A MINIMUM OF 3 AND A MAXIMUM OF 5 SEPARATE CANES A MINIMUM OF 1" CALIPER EACH COMING FROM THE ROOT BALL AND PRUNED INTO TREE FORM WITH NO BRANCHES ON THE LOWER HALF OF THE TREE. MULTIPLE PLANTS SHALL NOT BE USED AS A "MULTI-STEMMED" PLANT. **ALL TREES SHALL BE MINIMUM 8' IN HEIGHT.**
 - ALL REQUIRED TREES SHALL BE SET IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT, AND SHALL BE SET UPRIGHT PLUMB AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO OTHER TREES. EACH TREE SHALL BE SET 1-2" ABOVE THE FINISH GRADE AND BACKFILL SHALL BE BROUGHT EVEN WITH THE TOP OF THE ROOT BALL. NO FILL SHALL BE PERMITTED ATOP THE ROOT BALL.
 - ALL BURLAP, ROPES, STRAPS AND WIRES SHALL BE REMOVED FROM THE ROOT BALL. IF IT IS NOT POSSIBLE TO REMOVE THE BURLAP AND WIRE FROM THE BOTTOM OF THE ROOT BALL, THE BURLAP AND WIRE SHALL BE CUT AWAY FROM THE SIDES AND REMOVED FROM THE HOLE.
 - AFTER REQUIRED TREES ARE SET, THE BACKFILL SHALL BE MUDDLED AROUND THE BASE OF THE ROOT BALL AND ALL VOIDS SHALL BE FILLED.
 - ALL REQUIRED TREES SHALL HAVE THEIR PLANTING PITS MULCHED WITH APPROVED MULCHING MATERIAL IMMEDIATELY AFTER PLANTING. THE MULCHED AREAS SHALL BE THOROUGHLY WATERED. NOTE: MULCH SHALL BE PLACED A MAXIMUM THICKNESS OF 3". NO MULCH WITHIN 8" OF TRUNK OF TREE.
 - IF STAKING AND SUPPORTS HAVE BEEN INSTALLED ON THE REQUIRED TREE(S), ALL STAKING AND SUPPORTS SHALL BE REMOVED AFTER ONE GROWING SEASON.
 - AS A GENERAL RULE, THE FOLLOWING GUIDELINES FOR TREE DIVERSITY WITHIN THE TREE PLANTING SITE AND POPULATION SHOULD BE ADHERED TO: 1) PLANT NO MORE THAN 10% OF ANY SPECIES; NO MORE THAN 20% OF ANY GENUS; AND NO MORE THAN 30% OF ANY FAMILY.

TREE SELECTION NOTES:

- TREES SHALL BE 10' MINIMUM HEIGHT AND 3" MINIMUM CALIPER
- TREE SHOULD BE UNWRAPPED FOR EXAMINATION. STEMS SHOULD BE WRAPPED FOR SHIPMENT AND INSTALLATION. REMOVE WRAP PROMPTLY.
- TREE SHOULD HAVE BEEN PROPERLY TARGET PRUNED - NEVER FLUSH CUT, TRIMMED, ROUNDED-OVER, HEDGED, TIPPED OR TOPPED.
- TREE SHOULD BE FULLY OPEN-GROWN FOR WIND-FIRMNESS.
- TREE SHOULD HAVE A ROOT BALL SIZE THAT MINIMALLY MEETS NURSERY STANDARDS. STRIVE FOR A ROOT BALL AT 150% OF STANDARD ROOT BALL SIZE. ROOT BALL SHOULD BE LIFTED AND CONTAINED TO MINIMIZE AIR EXPOSURE AND ROOT DAMAGE.
- TREE SHOULD HAVE BEEN ROOT PRUNED ONE OR MORE TIMES. THE LAST ROOT PRUNING SHOULD HAVE OCCURRED AT LEAST ONE FULL GROWING SEASON BEFORE INSTALLATION.
- TREE SHOULD HAVE A GOOD CROWN SHAPE AND COLOR (IF EVERGREEN).
- TREE SHOULD BE ENTIRELY FREE FROM PEST SIGNS AND SYMPTOMS.
- TREE SHOULD SHOW VIGOROUS AND SUBSTANTIAL GROWTH FOR AT LEAST THE LAST TWO GROWING SEASONS.
- TREE SHOULD BE CERTIFIED IN WRITING AS TO SCIENTIFIC NAME, VARIETY, AND/OR CULTIVAR NAME.
- TREE SHOULD HAVE A SINGLE DOMINANT LEADER WITH NO SIDE BRANCHES TALLER THAN THE MAIN LEADER. TREE SHOULD NOT HAVE A FLAT TOP.
- TREE SHOULD HAVE APPROXIMATELY TWO-THIRDS OF ITS HEIGHT IN LIVING BRANCHES.
- TREE SHOULD HAVE BRANCHES DISTRIBUTED ALONG THE STEM IN AN ALTERNATING PATTERN AND NOT OCCURRING HORIZONTALLY OPPOSITE EACH OTHER ACROSS THE STEM.
- TREE SHOULD HAVE NO BASAL STEM OR MAIN ROOT BASE SCARS.
- TREE SHOULD HAVE NO STUB OR TIP CUTTING WOUNDS.
- TREE SHOULD NOT HAVE ANY VISIBLE BRANCH STUBS OR INTERNODAL CUTS PRESENT.
- TREE SHOULD HAVE NO FORKS OR DEAD LEADERS EVEN ON OPPOSITE BRANCHING SPECIES.
- TREE SHOULD HAVE NO BARK DAMAGE.
- TREE SHOULD NOT HAVE BEEN STAKED IN THE NURSERY.
- TREE SHOULD NOT HAVE BEEN TREATED AT ANY TIME WITH WOUND PAINT.
- TREES SHOULD NOT HAVE ALL BRANCHES GROWING FROM A SINGLE AREA ON THE STEM (CLUSTERED OR CROWNED). TREES WITH BRANCHES NORMALLY GROWING IN WHORLS SHOULD HAVE ONLY 3-4 BRANCHES PER WHORL.
- TREE SHOULD NOT APPEAR "LEGGY" OR EXCESSIVELY SLENDER. TREE MUST STAND ON ITS OWN AND RESIST WIND DEFLECTION.
- TREE SHOULD HAVE NO NARROW CROTCHES WITH INCLUDED BARK.
- TREE SHOULD HAVE NO SIDE BRANCHES TALLER THAN THE MAIN LEADER.
- TREE SHOULD NOT BE LEANING OR HAVE SIGNIFICANT SWEEP, CROOK OR BEND.
- TREE SHOULD HAVE NO BRANCH MORE THAN ONE-HALF THE DIAMETER OF THE MAIN LEADER.
- TREE SHOULD NOT HAVE BASAL SPROUTS OR FIRST-YEAR STEM SPROUTS.
- TREE SHOULD NOT HAVE SPROUTS FROM AROUND WOUND AREAS OR BRANCH BASES.
- TREE SHOULD NOT HAVE VERTICAL CRACK CLOSURES OVER OLD WOUNDS. PROPER PRUNING WOUND CLOSURES SHOULD BE CIRCULAR.
- TREE SHOULD NOT HAVE BRANCHES THAT CROSSOVER EACH OTHER OR RUB AGAINST EACH OTHER.
- TREE SHOULD NOT HAVE BRANCHES GROWING UPWARD INSIDE THE CROWN.
- TREE SHOULD NOT HAVE LARGE ROOTS CUT CLOSE TO THE ROOT CROWN/STEM BASE.

LANDSCAPE INSTALLATION NOTES:

- THE LANDSCAPE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
- ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING IS COMPLETE AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL.
- ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
- ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETIC OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
- PRIOR TO PLANTING, THE LOCATION OF TREES SHALL BE STAKED AND ALL PLANT MATERIAL SHALL BE INSPECTED FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT OR EQUAL. NO PLANT MATERIAL WILL BE ACCEPTED IF IT IS DAMAGED, DISEASED OR INADEQUATE IN SIZE AS SPECIFIED ON PLANS. SUBSTITUTIONS DUE TO AVAILABILITY MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE OUT ANY TALL SHOOTS, DEAD WOOD OR SUCKERS.
- ALL PLANTS SHALL BE INSTALLED AS PER DETAILS.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE FERTILIZER, PRE-EMERGENT HERBICIDE, LIME, TOPSOIL AND PLANTING MIXTURE AS PER THE PLANTING SOIL MIX NOTE.
- BEDLINES SHALL HAVE A 3" DEEP SHOVEL CUT TRENCH EDGE WHERE MULCH MEETS GRASS, CONCRETE WALKS OR CURBS UNLESS OTHERWISE SPECIFIED. BEDLINES SHALL BE SMOOTH AND CONTINUOUS AND BE WITHIN A REASONABLE LOCATION AND SHAPE AS ILLUSTRATED ON PLANS.
- ALL PLANTING AREAS SHOULD HAVE POSITIVE DRAINAGE TO DISCOURAGE SATURATED ROOT SYSTEMS.
- PLACE 3" OF DYE-FREE DOUBLE HAMMERED HARDWOOD MULCH OVER ALL PLANTING BEDS; TUCK MULCH UNDER PLANTS AND INTO BEDLINE TRENCHES PER PLAN SPECIFICATIONS. DO NOT COVER ROOT FLARES WITH MULCH.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CLEAN UP OF ALL CONTAINERS, PLANT TAGS AND RIBBONS, PALLETS, DEBRIS, ETC. RESULTING FROM HIS OR HER WORK.
- ALL MULCH RINGS SHALL BE 5' DIAMETER.
- ALL AREAS TO BE GRASSED SHALL BE SEEDED OR SODDED PER THE PLANT SCHEDULE AND THE PERMANENT GRASSING NOTE.

IRRIGATION SPECIFICATIONS:

- CONTRACTOR SHALL DESIGN AND INSTALL AN IRRIGATION SYSTEM FOR 100% COVERAGE OF ALL NEW TREES, SHRUBS AND GRASS WITHIN THE IRRIGATION LIMITS. A SHOP DRAWING OF THE PROPOSED SYSTEM LAYOUT AND PROPOSED EQUIPMENT SCHEDULE MUST BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL IRRIGATION EQUIPMENT SHALL BE MANUFACTURED BY RAINBIRD INC. OR APPROVED EQUAL.
- CONTRACTOR SHALL FIELD VERIFY EXISTING WATER PRESSURE AND AVAILABLE VOLUME FOR MINIMUM MANUFACTURED SPECIFIED WORKING PRESSURE BEFORE WORKING IRRIGATION SYSTEM.
- CONTRACTOR SHALL SUPPLY POWER TO CONTROLLER UTILIZING NEAREST EXISTING POWER SUPPLY. CONTRACTOR SHALL CONSULT WITH OWNER AS TO THE LOCATION AND PLACEMENT OF THE CONTROLLER.
- CONTRACTOR WILL INSTALL HEADS AND NOZZLES THAT WILL LIMIT THE AMOUNT OF WATER THROWN ON IMPERVIOUS SURFACES AND STILL MAINTAIN 100% COVERAGE OF PLANTED AREAS WITHIN THE IRRIGATION LIMITS. WATER OVSERSPRAY ONTO IMPERVIOUS SURFACES MUST BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE. IRRIGATION WATER MUST BE DIRECTED AWAY FROM BUILDINGS & OTHER STRUCTURES.
- CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE IRRIGATION INSTALLATION BEGINS.
- NO IRRIGATION WATER SHALL BE THROWN ON BUILDING MASONRY. NO FUNNY PIPE OR OTHER FLEXIBLE PIPE CAN BE USED FOR SUPPLY OR FEEDER LINES. NO STATIONARY RISERS CAN BE USED.
- ALL PLASTIC PIPE FROM SIZES 4" AND ABOVE SHALL BE CLASS 200, SDR 21, UNPLASTICIZED RIGID PVC PIPE WITH INTEGRAL BELL AND RUBBER RING GASKET UNLESS OTHERWISE SPECIFIED. PIPE FROM SIZES 3" TO 3/4" SHALL BE CLASS 200, SOLVENT WELD, PVC PIPE. 1/2" PIPE SHALL BE CLASS 200, SOLVENT WELD, PVC PIPE. ALL PIPE SHALL BE SUPPLIED IN 20' STANDARD LENGTHS AND SHALL BE MANUFACTURED BY CERTAINTEE CORP., CRESTLINE, DURA, OR EQUAL. ALL PIPE THAT IS EXPOSED OR NOT BELOW GRADE SHALL BE SCHEDULE 80 PVC.
- ALL IN-GROUND WIRE CONNECTIONS MUST BE MADE WITH 3M-DBY WIRE CONNECTIONS OR APPROVED EQUAL.
- CONTROLLER SHALL BE BY RAIN BIRD OR APPROVED EQUAL. CONTROLLER SHALL INCLUDE RAIN SENSOR. CONTROLLER SHALL BE WEATHER TIGHT CONSTRUCTION.
- ALL CONTROL VALVES MUST BE BRASS OR SCHD. 80 PVC WITH A SCHD. 80 ISOLATION VALVE AT EACH CONTROL VALVE.
- VALVES IN BOXES MUST BE EASILY ACCESSIBLE AND INSTALLED WITH 8" DRAINAGE ROCK IN BOTTOM.
- ALL VALVE BOXES SHALL BE SET LEVEL WITH FINISHED GRADE.

PERMANENT GRASSING NOTE:

NOTE: ALL AREAS TO BE SODDED SHALL RECEIVE 4" OF SCREENED TOPSOIL. TOP SOIL WILL BE RAKED LEVEL AND FREE OF DEBRIS PRIOR TO SOD INSTALLATION. ALL AREAS TO BE SEEDED WILL RECEIVE 2" OF SCREENED TOP SOIL. TOP SOIL WILL BE RAKED LEVEL AND FREE OF DEBRIS PRIOR TO SEEDING. ALL SODDED AREAS WILL BE TOP DRESSED WITH COARSE SAND TO LEVEL IRREGULARITIES AND PROTECT SOD SEAMS. ALL NEWLY GRASSED AREAS SHALL RECEIVE 1.5" OF ABSORBED WATER EACH WEEK THROUGH CONSTRUCTION AND THE 90 DAY MAINTENANCE PERIOD.

OTHER THAN THE DETENTION BASIN FLOOR ALL AREAS NOT RECEIVING SOD SHALL BE PERMANENTLY GRASSED WITH COMMON BERMUDA SEED AT A RATE OF 50 LBS PER ACRE. ALL SEEDED AREAS SHALL RECEIVE WHEAT STRAW MULCH AT 2 TONS PER ACRE. SLOPED AREAS SHALL HAVE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED WITH SOD STAPLES OR SIMILAR FASTENING METHOD. SEE GRASSING, FERTILIZATION, AND MULCH NOTE FOR ADDITIONAL INSTRUCTIONS ON SHEET C506 (SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS).

PLANTING SOIL MIX NOTE

- PLANTING SOIL SHALL BE A MIXTURE OF APPROVED TOPSOIL, SAND, AND ORGANIC MATERIAL MIXED TO MEET THE FOLLOWING SPECIFICATION.
 - PARTICLE SIZE DISTRIBUTION ACCORDING TO U.S.D.A. PARTICLE CLASSIFICATIONS:
- | PARTICLE | SIZE (MM) | ALLOWABLE LIMIT |
|------------------|------------|-----------------|
| GRAVEL | >4.75 | MAX. 3% |
| FINE GRAVEL | 2.00-4.75 | MAX. 10% |
| VERY COARSE SAND | 1.00-2.00 | COMBINED |
| COARSE SAND+ | 0.50-1.00 | |
| MEDIUM SAND | 0.25-0.50 | 50-75% |
| FINE SAND | 0.10-0.25 | 5-15% |
| VERY FINE SAND | 0.05-0.10 | 0-10% |
| SILT | 0.002-0.05 | 10-20% |
| CLAY | <0.002 | 10-20% |
- THE U.S.D.A. SOIL TEXTURE CLASS SHALL BE A SANDY LOAM, WITH NO MORE THAN 75% SAND AND NO MORE THAN 35% COMBINED SILT+CLAY.
 - THE ORGANIC MATTER SHALL BE 5-8%.
 - DEPTH OF MIX AS INDICATED ON DRAWINGS.

PLANT SCHEDULE

CONTRACTOR RESPONSIBLE FOR THEIR OWN QUANTITY TAKE-OFFS

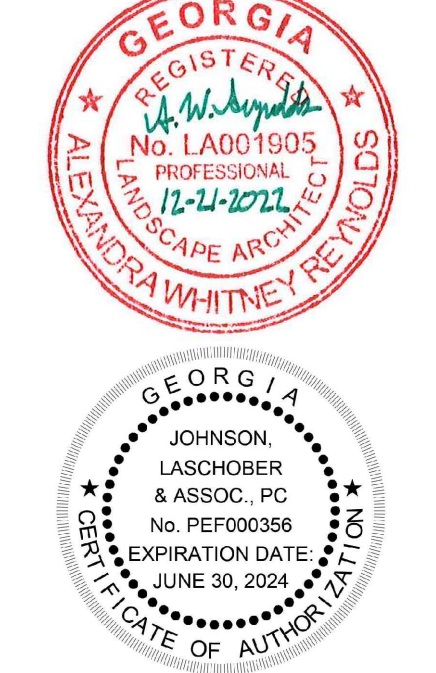
TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	Pp	Parrotia persica	Persian Parrotia	3" Cal.	B&B	4	
	UaJ	Ulmus americana 'Jefferson'	American Elm	3" Cal.	B&B	4	
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	AvrC	Abelia x 'Rose Creek'	Rose Creek Abelia	3 gal.	Pot	82	4' OC
	DxCG	Distylium X 'PIDIST-V' TM	Cinnamon Girl Distylium	3 gal.	Pot	373	4' OC
	Gj	Gardenia jasminoides 'August Beauty'	Gardenia	3 gal.	Pot	28	AS SHOWN
	IcDB	Ilex cornuta 'Dwarf Burford'	Dwarf Burford Holly	6-8" H	B&B	23	TREE FORM
	LcK	Loropetalum chinense 'Kurenai' TM	Jazz Hands Dwarf Pink Loropetalum	2 gal.	Pot	706	3' OC
	MsA	Miscanthus sinensis 'Adagio'	Adagio Eulalia Grass	3 gal.	Pot	238	4' OC
	PvHM	Panicum virgatum 'Heavy Metal'	Heavy Metal Switch Grass	3 gal.	Pot	504	3' OC
	RxM	Rosa x 'Meisental' TM	Lemon Drift Rose	2 gal.	Pot	296	3' OC
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
	SEED	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	seed	N/A	59,165 sf	
	SOD	Cynodon dactylon x transvaalensis	Hybrid Bermudagrass	sod	N/A	24,210 sf	
	Hf	Hemerocallis fulva	Orange Daylily	4"	Pot	471	2.5" OC
	HxSOD	Hemerocallis x 'Stella de Oro'	Stella de Oro Daylily	1 gal.	Pot	1,408	18' OC
	Ps	Phlox subulata	Creeping Phlox	4"	Pot	321	2' O.C.

NOTE: THE LANDSCAPE ARCHITECT HAS SELECTED PLANT VARIETIES THAT ATTAIN SPECIFIC SIZES. ANY PROPOSED SUBSTITUTIONS TO THE PLANT SCHEDULE DUE TO AVAILABLE SUPPLY MUST BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.



Architects • Engineers • Landscape Architects
 JOHNSON, LASCHOBET &
 ASSOCIATES, P.C.
 AUGUSTA, GA • MT. PLEASANT, SC
 TEL (706) 724-3756 • TEL (843) 619-4656
 FAX (706) 724-3935
 WWW.THEJLAGROUP.COM

CITY OF AUGUSTA
 585 TELFAIR ST. AUGUSTA, GA 30901
 PROJECT NAME: WRIGHTSBORO ROAD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS
 PROJECT LOCATION: WRIGHTSBORO ROAD AUGUSTA, GA



REV	DATE	BY	DESCRIPTION
1	12/21/22	RDH	ISSUED FOR BID-REVISION #1
0	10/19/22	RDH	ISSUED FOR BID

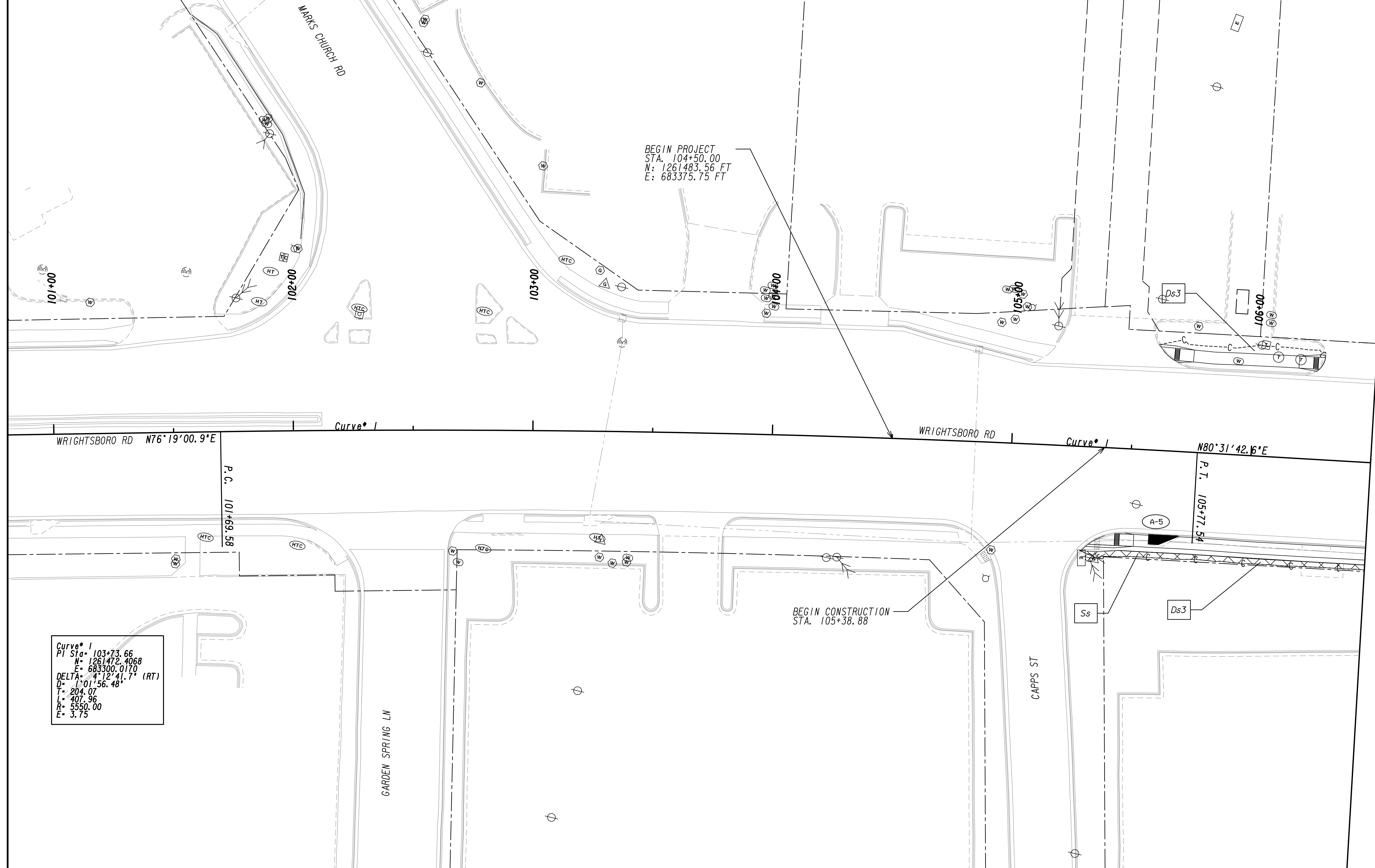
PROJECT NO. 1144.2001
 DRAWN BY: AWR
 CHECKED BY: RDH
 DATE: 10/19/2022

SHEET TITLE:
LANDSCAPE SPECIFICATIONS

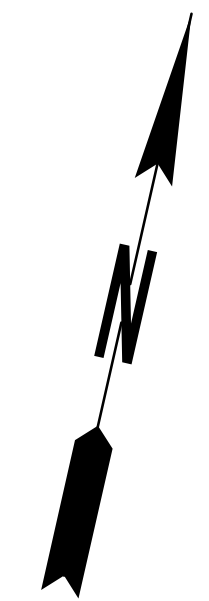
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 DRAWING NO. 28-0012

REV. 1

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MATCH LINE STA. 106+50 SEE DRAWING NO. 54.3-0002



Curve 1
 P.I. Sta. 103+73.66
 N= 1261472.4068
 E= 683300.0170
 DELTA= 4°12'41.7\" (RT)
 D= 1°01'56.48\"
 L= 204.07
 R= 407.96
 E= 5550.00
 E= 3.75

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

--- P --- BEGIN LIMIT OF ACCESS.....BLA
 --- END LIMIT OF ACCESS.....ELA
 --- G --- F --- LIMIT OF ACCESS
 --- REQ'D R/W & LIMIT OF ACCESS
 --- ORANGE BARRIER FENCE
 --- ● --- ○ --- ESA - ENV. SENSITIVE AREA
 --- (SEE ERIT TABLE)



6745 Sugarloaf Parkway, Suite 100
 Duluth, GA 30097
 770.447.8999 - www.chacompanies.com



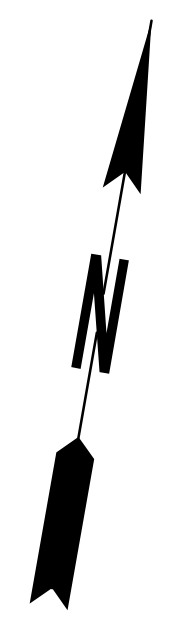
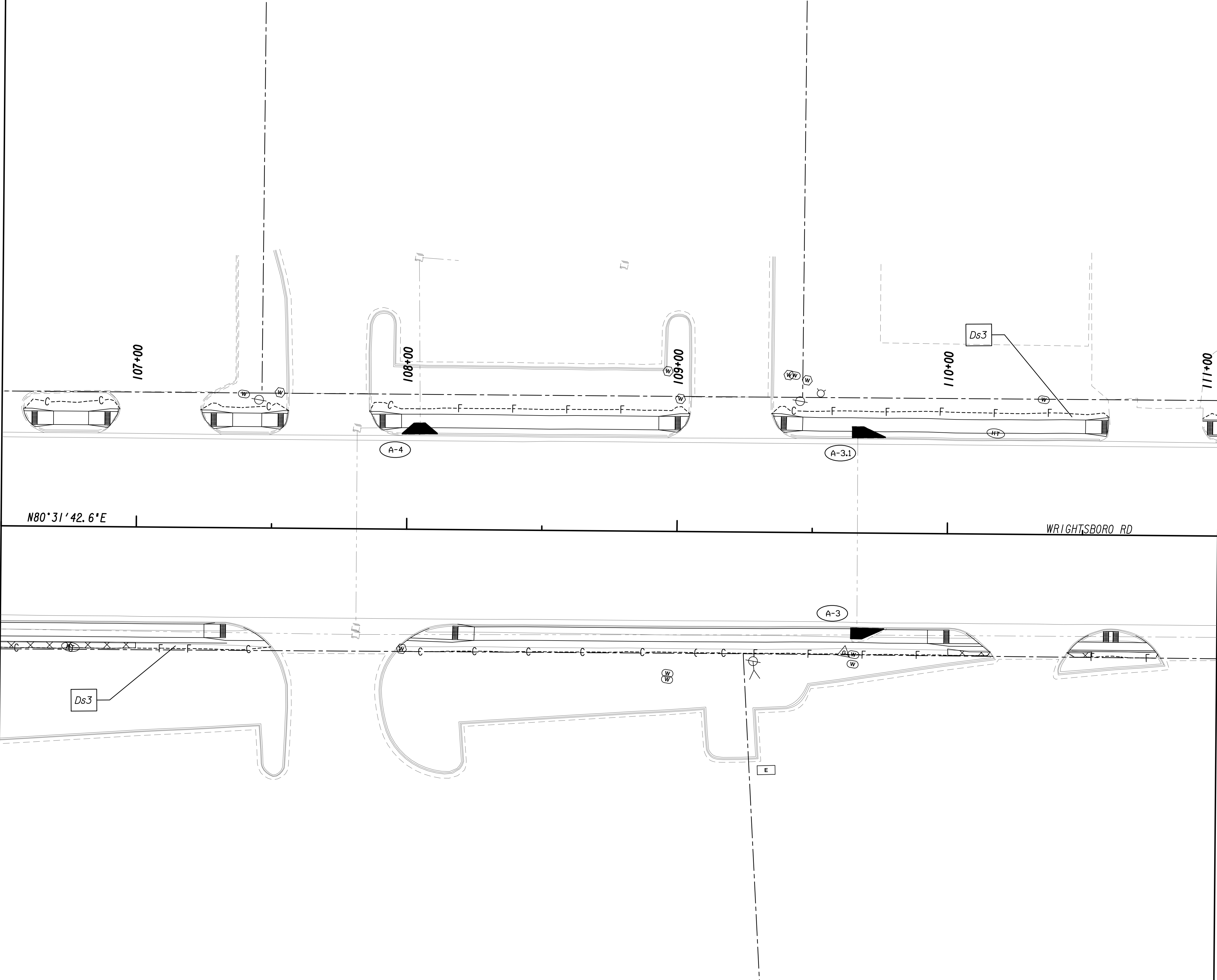
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
CORRECTED:	DATE:	VERIFIED:	DATE:
			DRAWING No. 54.3-0001



MATCH LINE STA. 106+50
SEE DRAWING No. 54-3-0001

MATCH LINE STA. 111+00
SEE DRAWING No. 54-3-0003



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

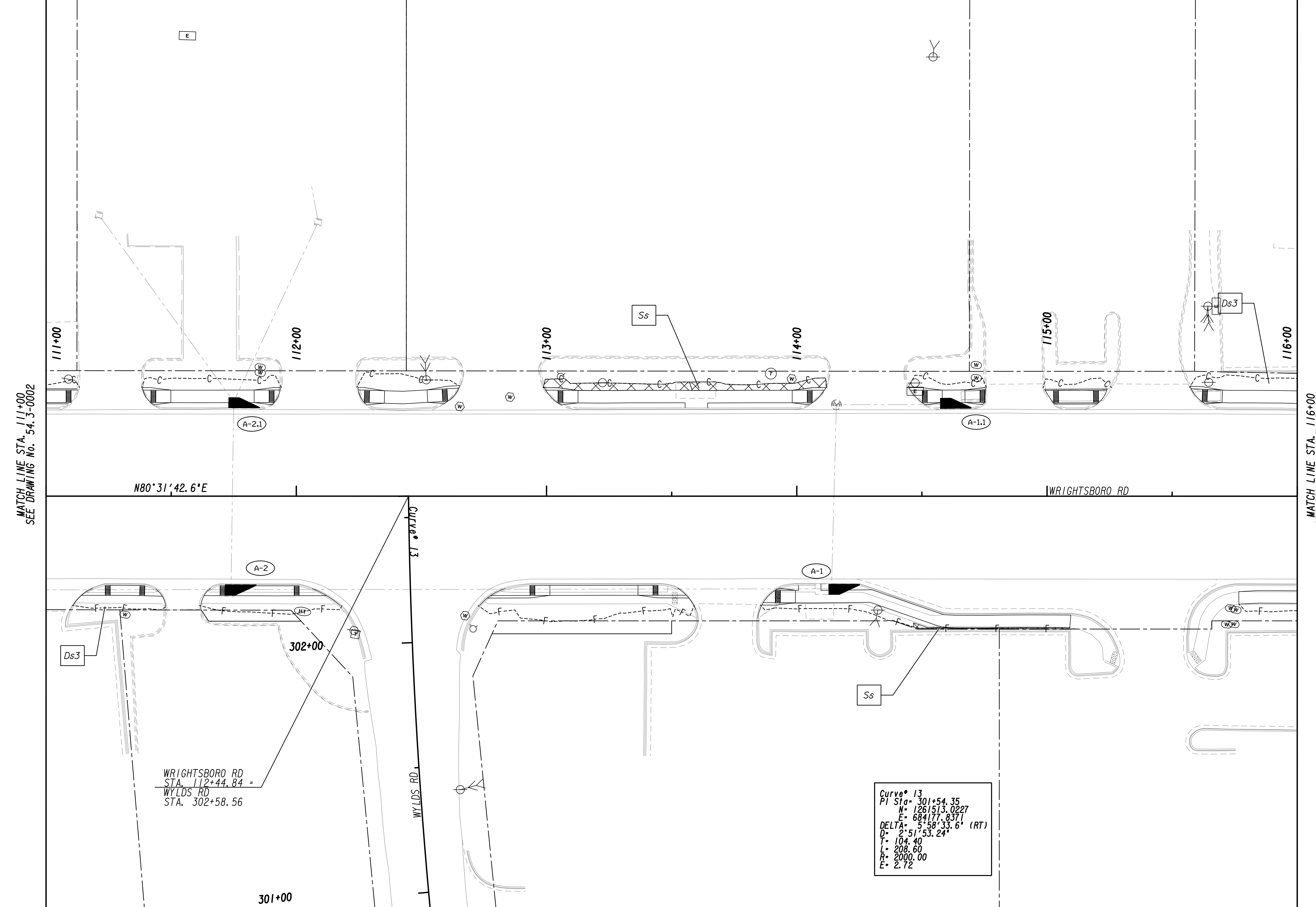
---P--- BEGIN LIMIT OF ACCESS.....BLA
 --- END LIMIT OF ACCESS.....ELA
 ---C---F--- LIMIT OF ACCESS
 --- REQ'D R/W & LIMIT OF ACCESS
 [Hatched Box] ORANGE BARRIER FENCE
 [Dotted Box] ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

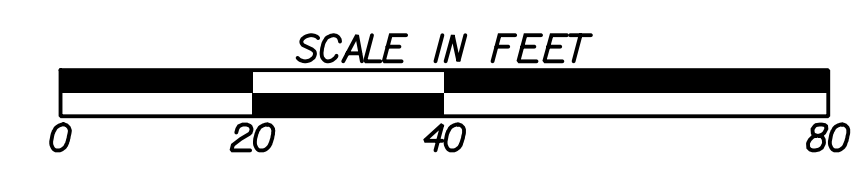
BMP LOCATION DETAILS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE
 FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-3-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



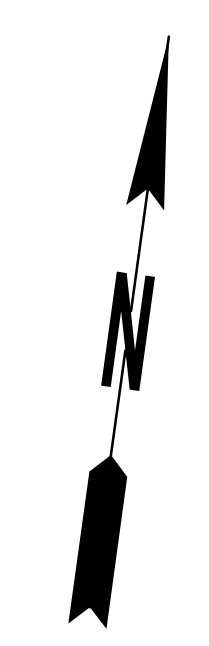
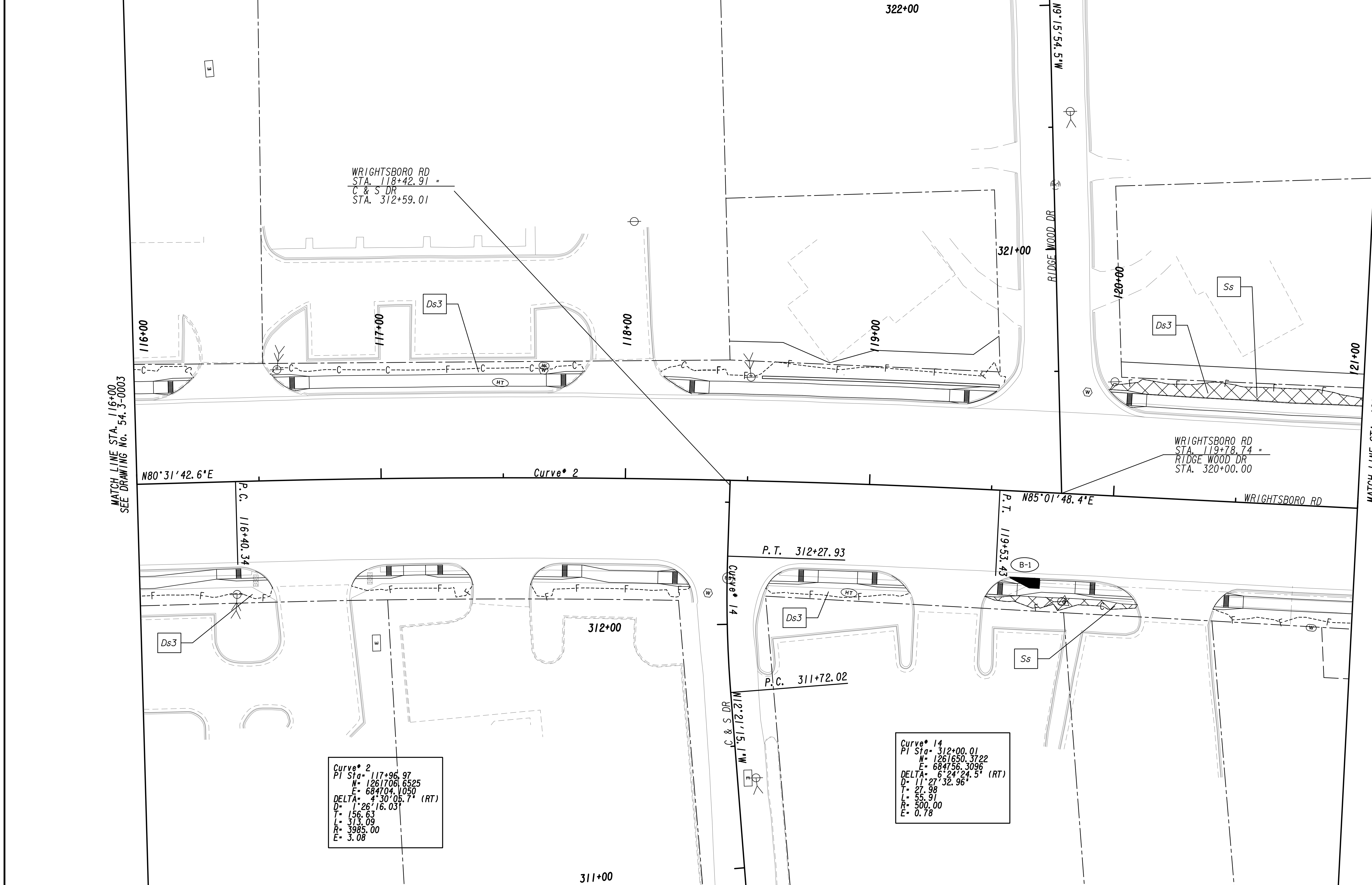
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

— P — BEGIN LIMIT OF ACCESS.....BLA
 — E — END LIMIT OF ACCESS.....ELA
 — C — F — LIMIT OF ACCESS
 — H — H — REQ'D R/W & LIMIT OF ACCESS
 — X — X — ORANGE BARRIER FENCE
 — • — • — ESA - ENV. SENSITIVE AREA
 — ▼ — ▼ — (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-3-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

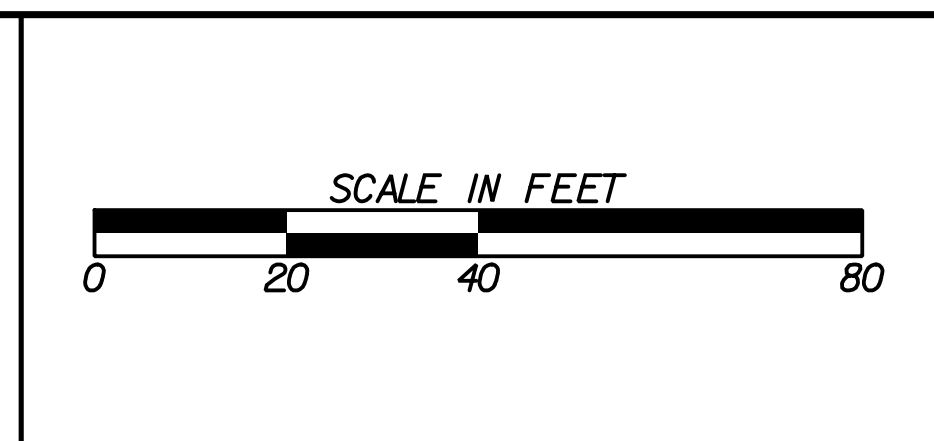


PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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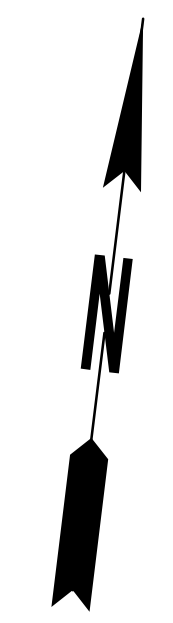
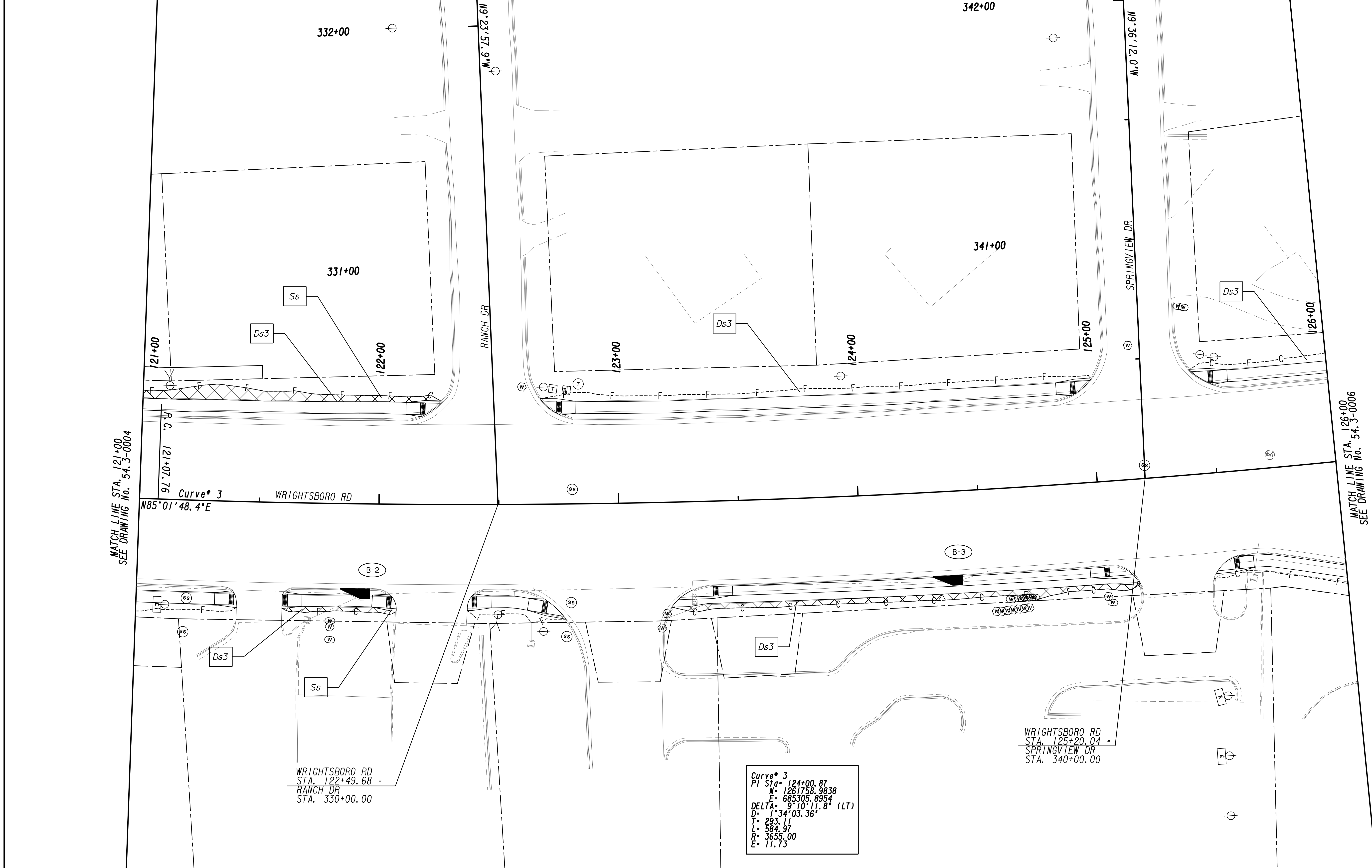
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Duluth, GA 30097
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REVISION DATES	
12-21-22	

BMP LOCATION DETAILS
WRIGHTSBORO RD RECONSTRUCTION
AND PEDESTRIAN IMPROVEMENTS
FROM MARKS CHURCH RD TO HIGHLAND AVENUE
FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54.3-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 121+00
SEE DRAWING No. 54.3-0004

MATCH LINE STA. 126+00
SEE DRAWING No. 54.3-0006

WRIGHTSBORO RD
STA. 122+49.68 =
RANCH DR
STA. 330+00.00

WRIGHTSBORO RD
STA. 125+20.04 =
SPRINGVIEW DR
STA. 340+00.00

Curve # 3
 PI Sta. 124+00.87
 N= 1261758.9838
 E= 685305.8954
 DELTA= 9°10'11.8\"/>

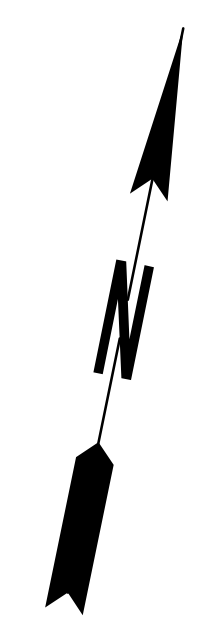
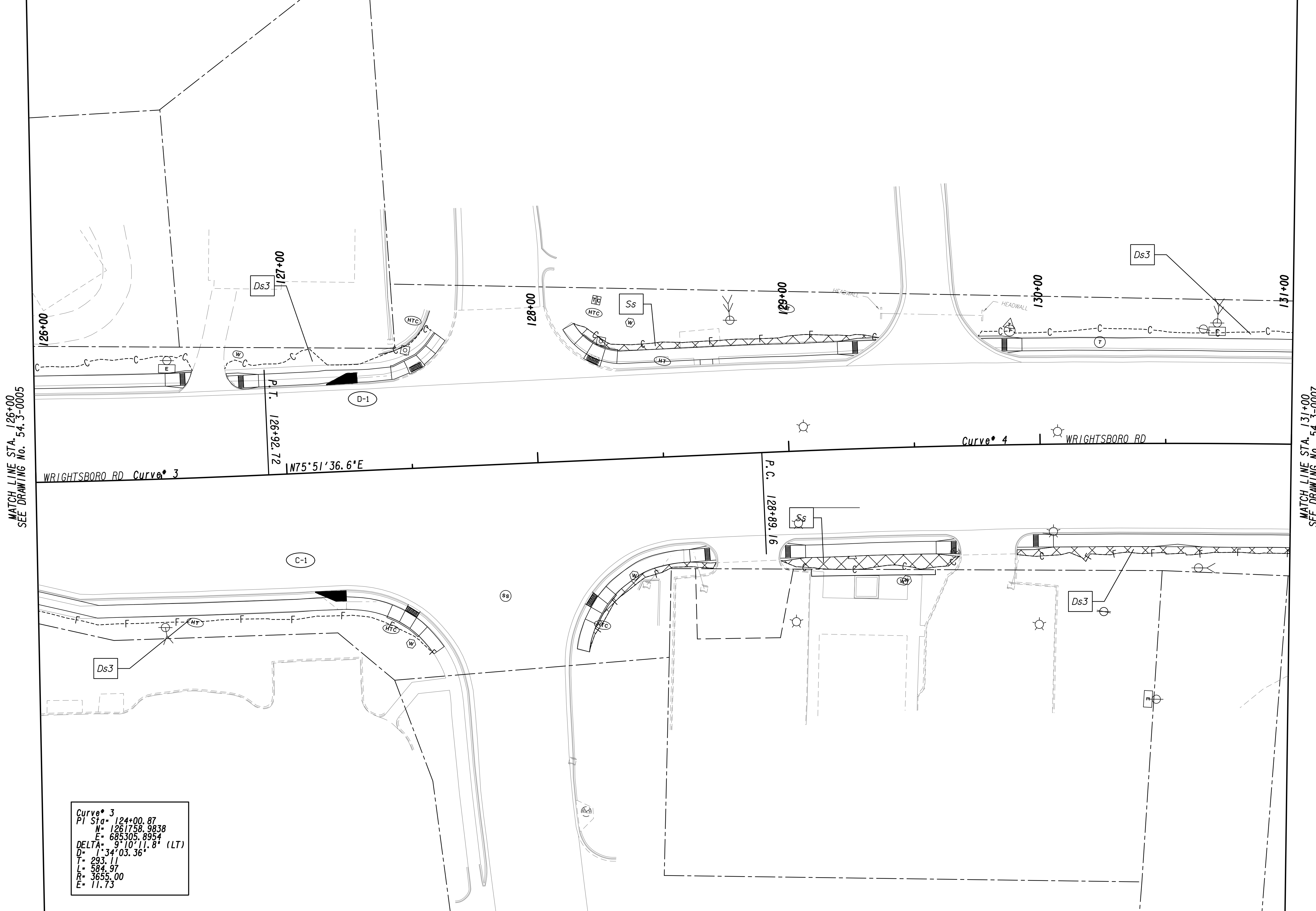
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0005	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

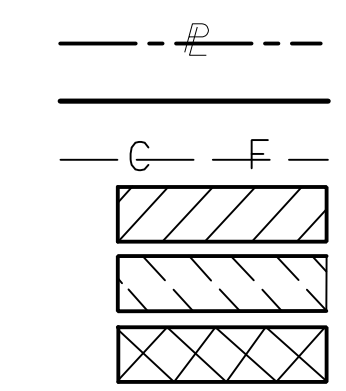


MATCH LINE STA. 126+00
SEE DRAWING No. 54.3-0005

MATCH LINE STA. 131+00
SEE DRAWING No. 54.3-0007

Curve 3
 PI Sta = 124+00.87
 N = 1261758.9838
 E = 685305.8954
 DELTA = 9°10'11.8" (LT)
 D = 134'03.36"
 T = 293.11
 L = 584.97
 R = 3655.00
 E = 11.73

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

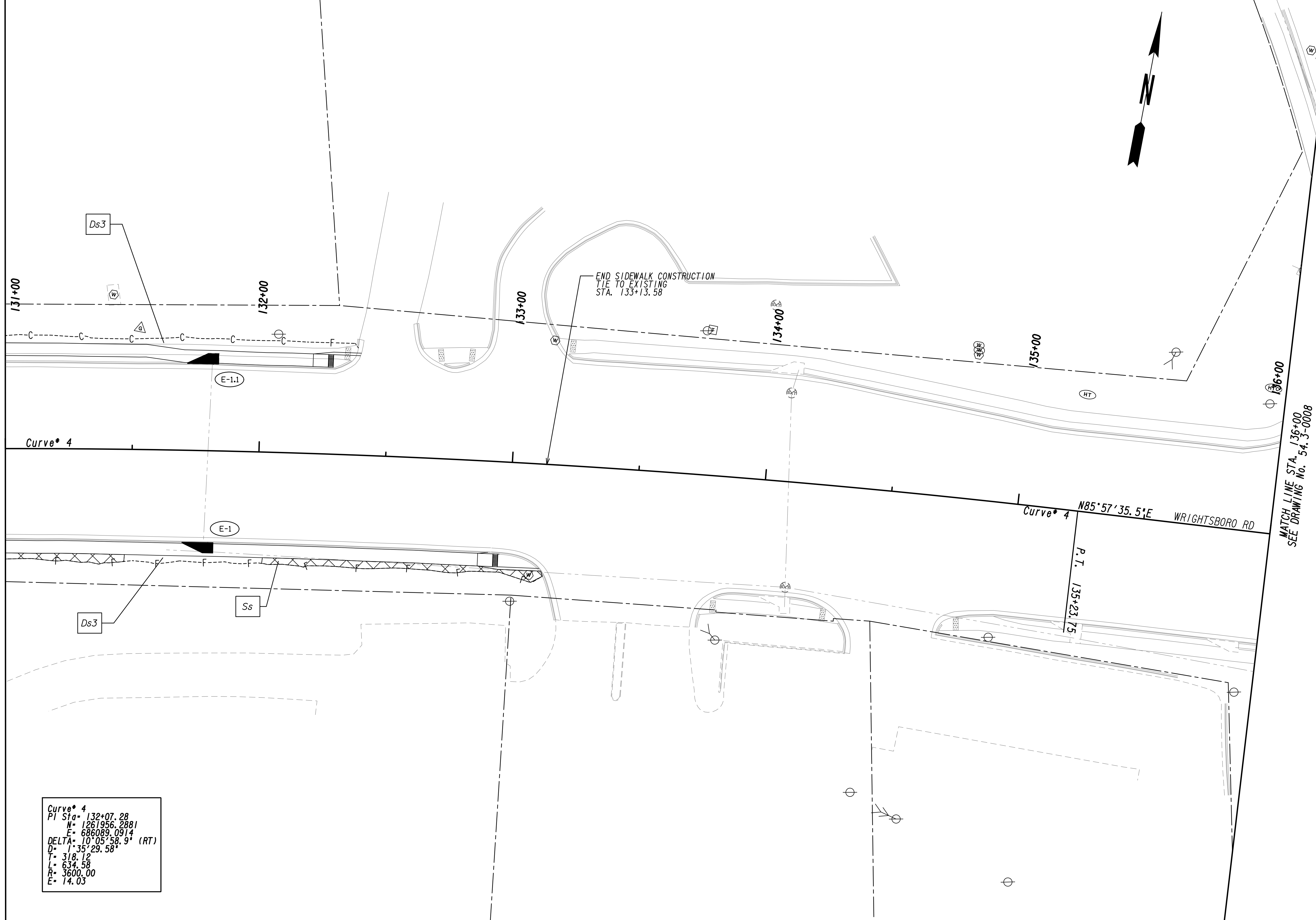


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

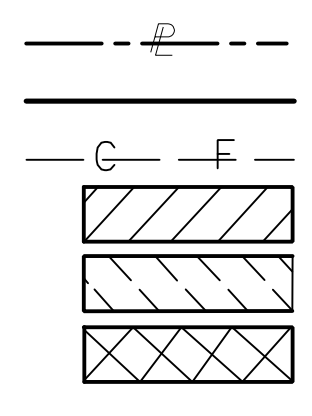


MATCH LINE STA. 131+00
SEE DRAWING No. 54.3-0006

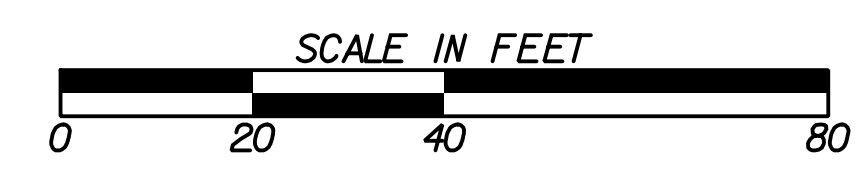
MATCH LINE STA. 136+00
SEE DRAWING No. 54.3-0008

Curve* 4
 PI Sta= 132+07.28
 N= 1261956.2881
 E= 686089.0914
 DELTA= 101°05'58.9" (RT)
 D= 1'35"29.58"
 T= 318.12
 L= 634.58
 R= 3600.00
 E= 14.03

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

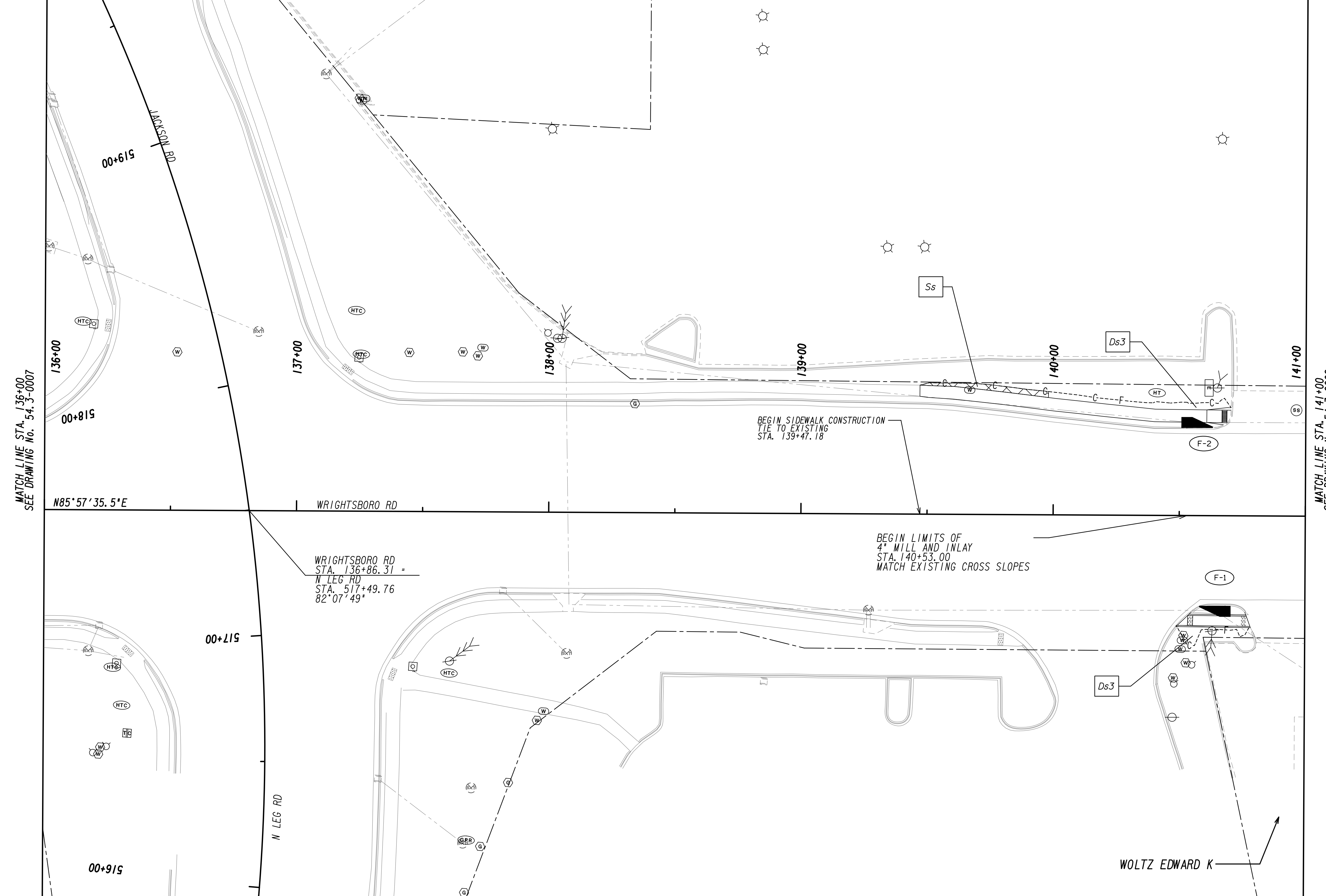


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:		
			DRAWING No. 54.3-0007



MATCH LINE STA. 136+00
SEE DRAWING No. 54-3-0007

MATCH LINE STA. 141+00
SEE DRAWING No. 54-3-0009

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

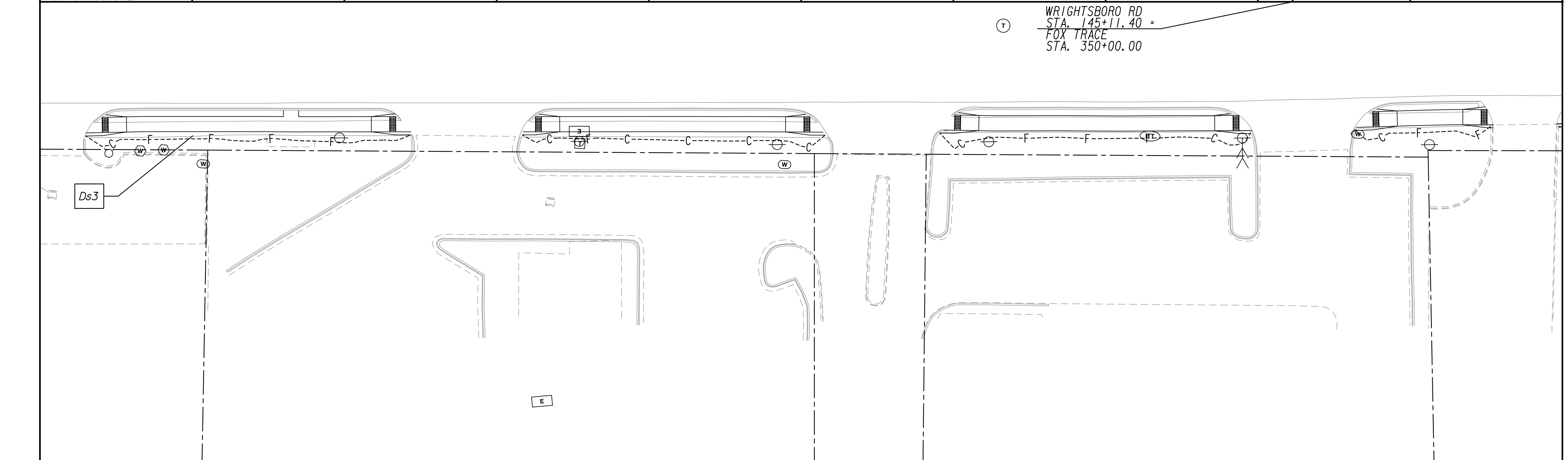
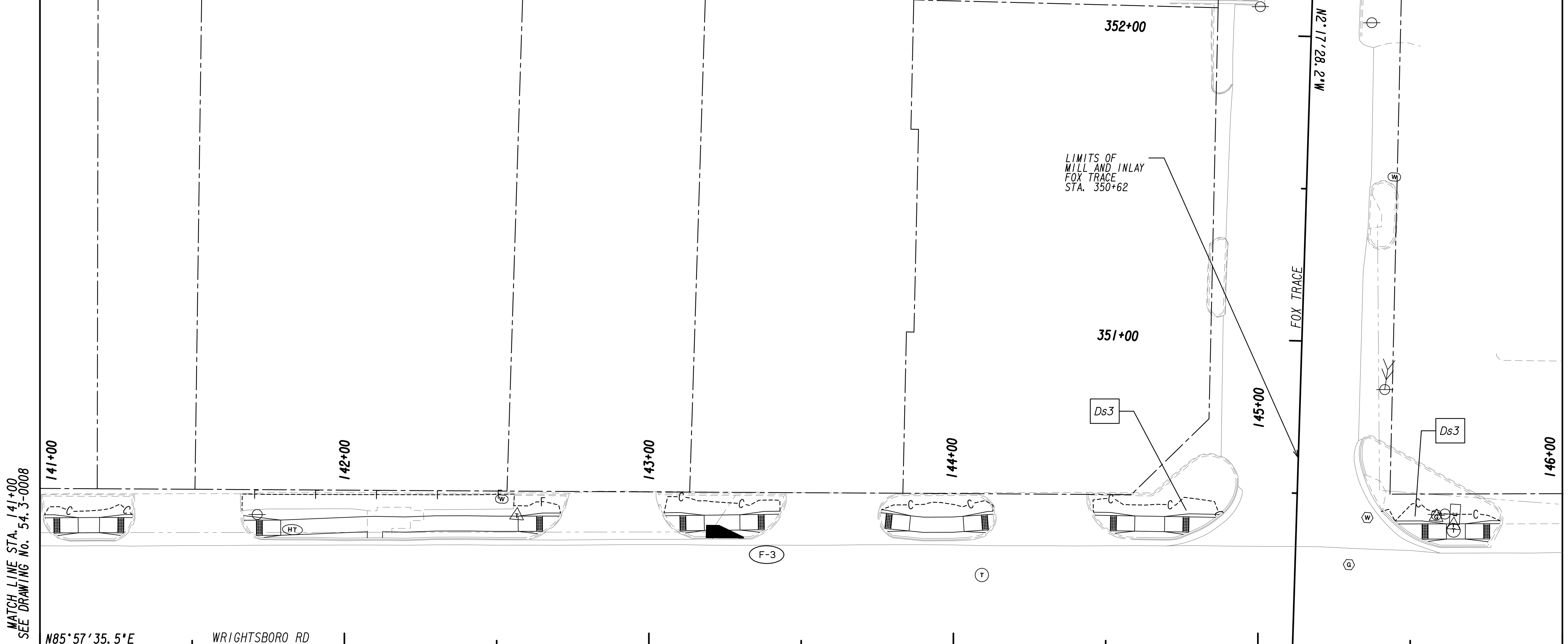
— P ——— BEGIN LIMIT OF ACCESS.....BLA
 ——— END LIMIT OF ACCESS.....ELA
 ——— LIMIT OF ACCESS
 ——— REQ'D R/W & LIMIT OF ACCESS
 [Diagonal Hatching] ORANGE BARRIER FENCE
 [Cross-hatching] ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE
 FINAL PHASE

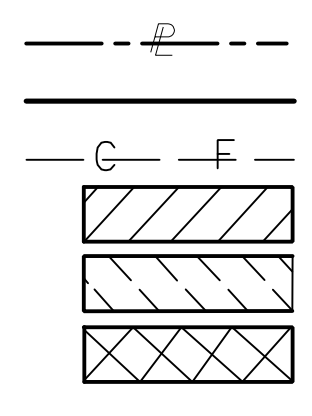
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-3-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 141+00
SEE DRAWING No. 54.3-0008

MATCH LINE STA. 146+00
SEE DRAWING No. 54.3-0010

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

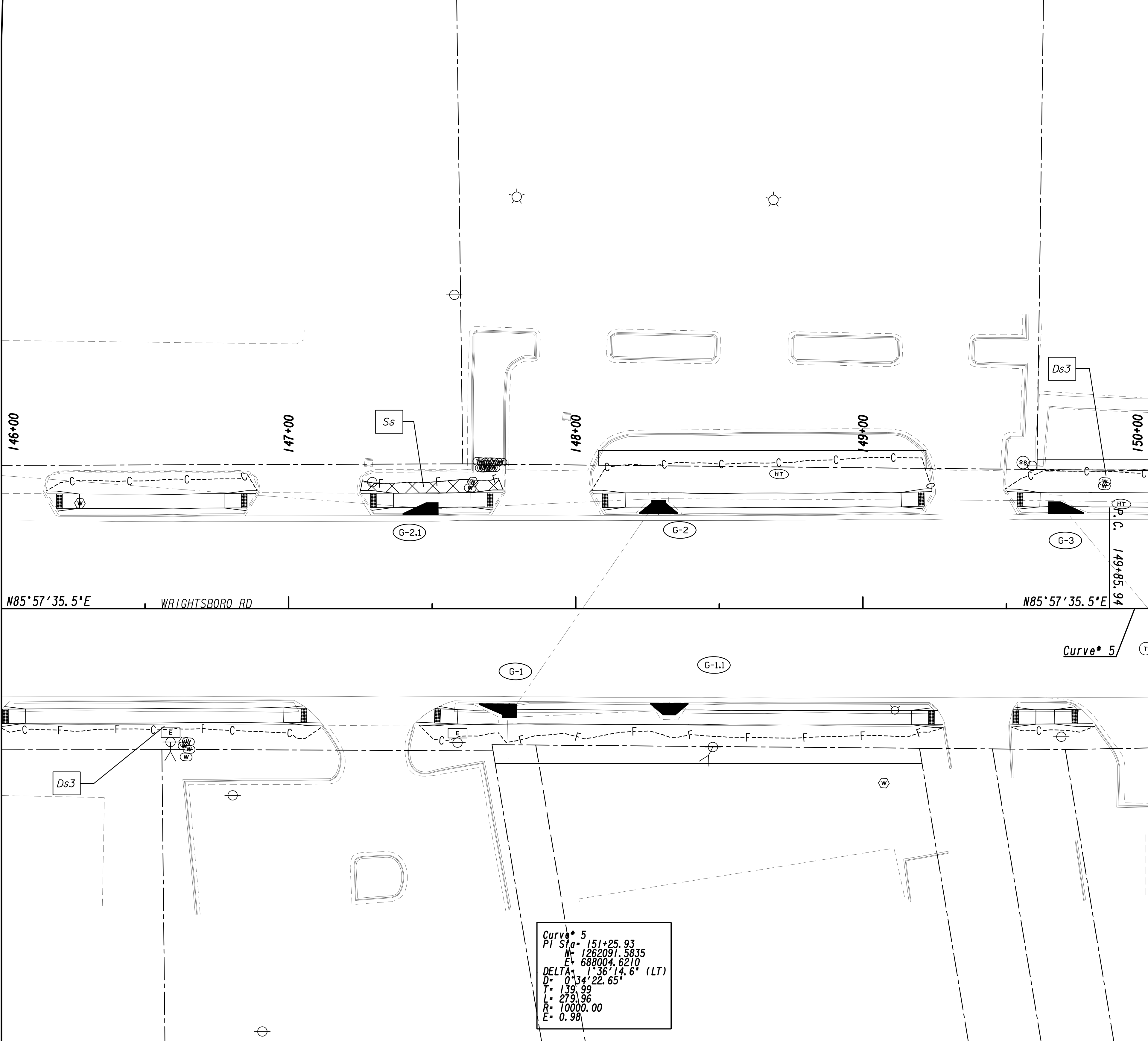


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0009	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

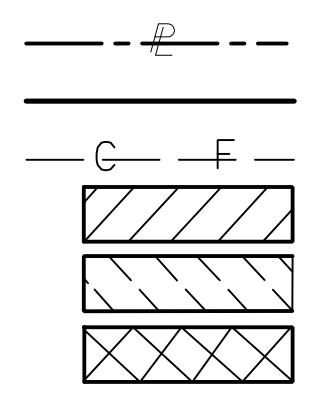


MATCH LINE STA. 146+00
SEE DRAWING No. 54.3-0009

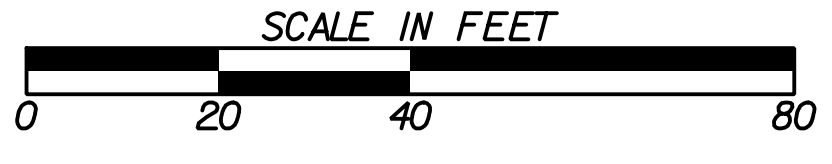
MATCH LINE STA. 150+00
SEE DRAWING No. 54.3-0011

Curve* 5
 PI Sta= 151+25.93
 M= 1262091.5835
 E= 688004.6210
 DELTA= 1°36'14.6" (LT)
 D= 0'34" 22.65"
 T= 139.99
 L= 279.96
 R= 10000.00
 E= 0.98

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

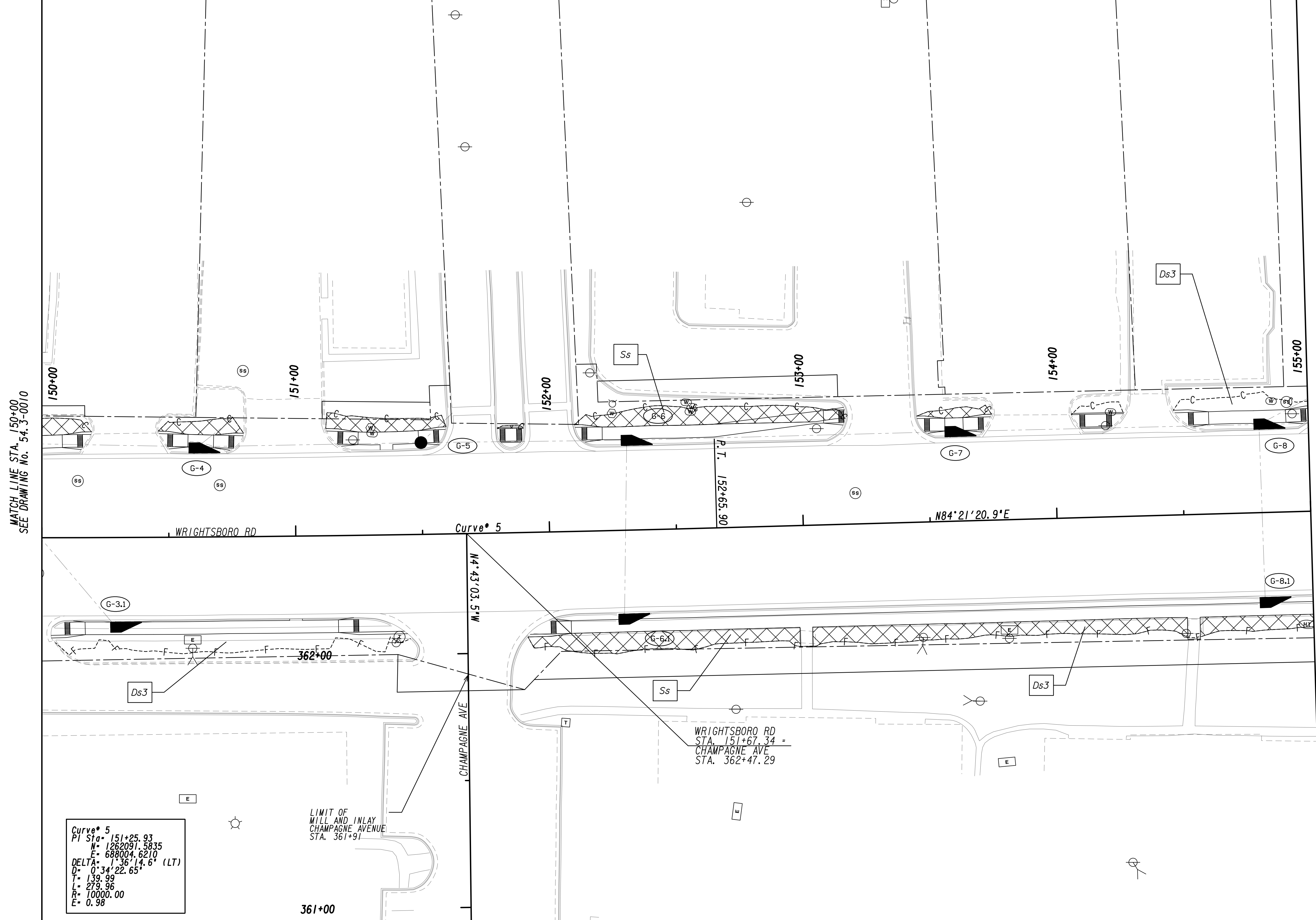


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0010	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 150+00
SEE DRAWING No. 54.3-0010

MATCH LINE STA. 155+00
SEE DRAWING No. 54.3-0012

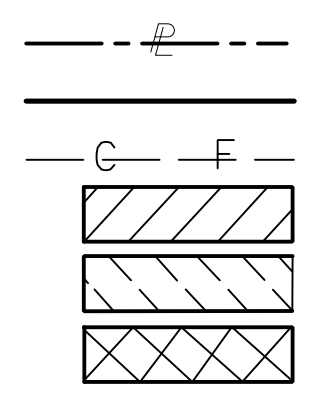
Curve # 5

PI Sta	= 151+25.93
N	= 1262091.5835
E	= 688004.6210
DELTA	= 1°36'14.6" (LT)
D	= 0°34'22.65"
T	= 139.99
L	= 279.96
R	= 10000.00
E	= 0.98

LIMIT OF WILL AND INLAY
CHAMPAGNE AVENUE
STA. 361+91

WRIGHTSBORO RD
STA. 151+67.34 =
CHAMPAGNE AVE
STA. 362+47.29

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



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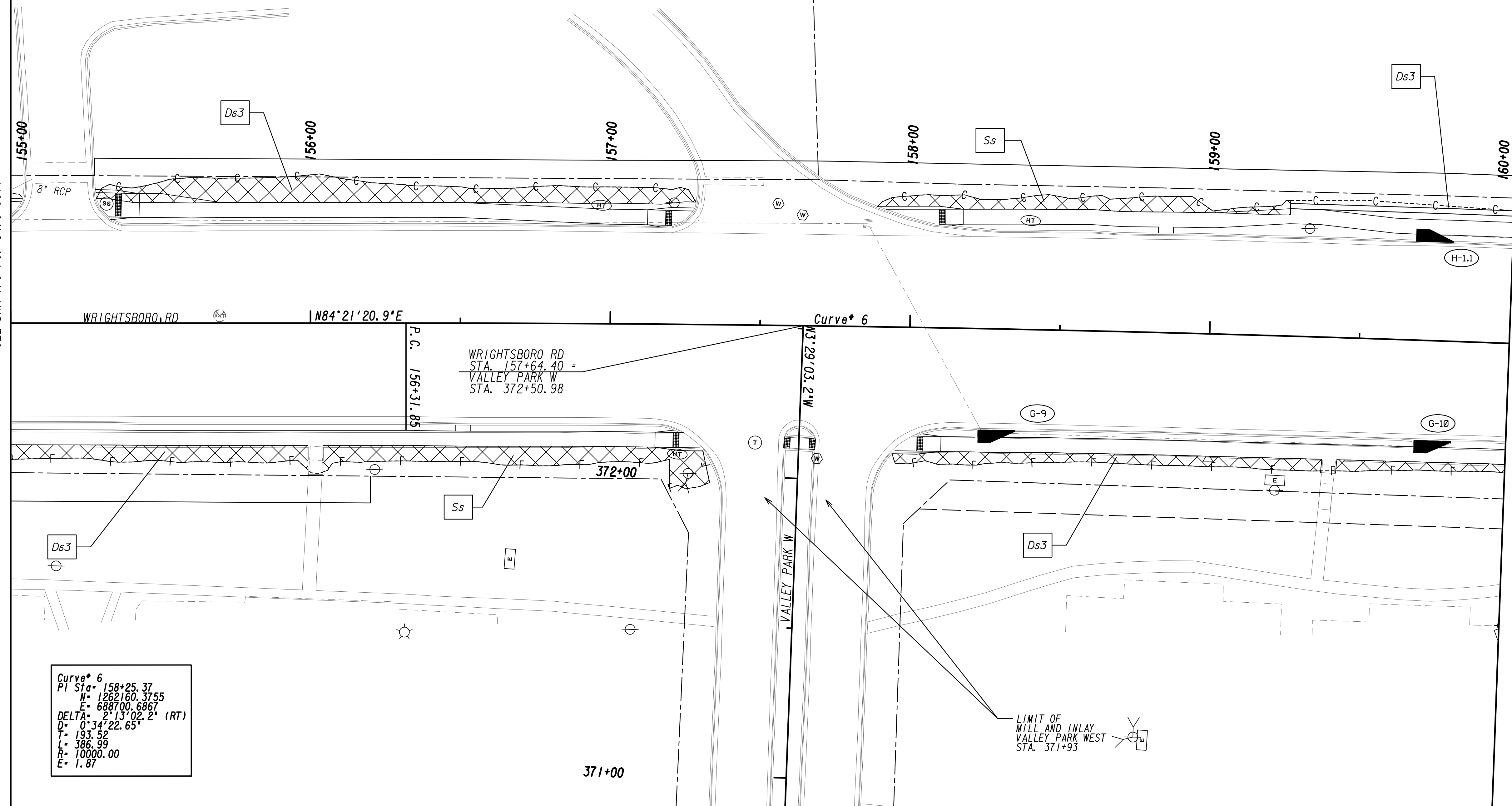
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS		
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54.3-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	



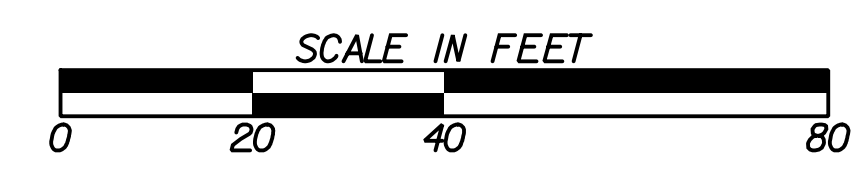
MATCH LINE STA. 155+00
SEE DRAWING No. 54.3-0011

MATCH LINE STA. 160+00
SEE DRAWING No. 54.3-0013



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



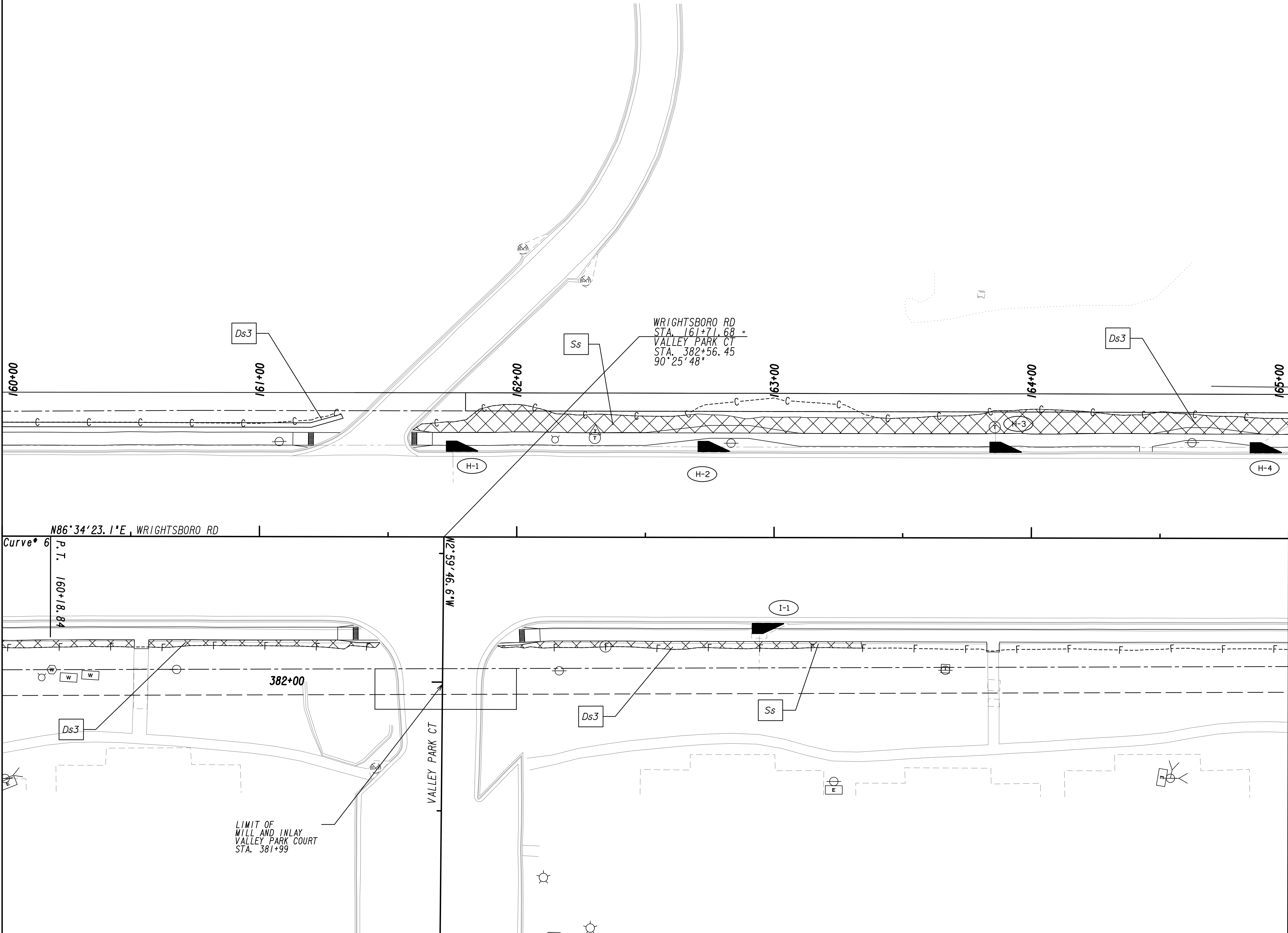
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0012	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 160+00
SEE DRAWING No. 54.3-0012

MATCH LINE STA. 165+00
SEE DRAWING No. 54.3-0014



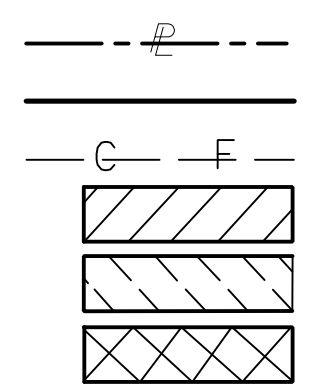
N86°34'23.1"E, WRIGHTSBORO RD

Curve # 6
P.T. 160+18.84

M. 59+46.6 W
VALLEY PARK CT

LIMIT OF WILL AND INLAY
VALLEY PARK COURT
STA. 381+99

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

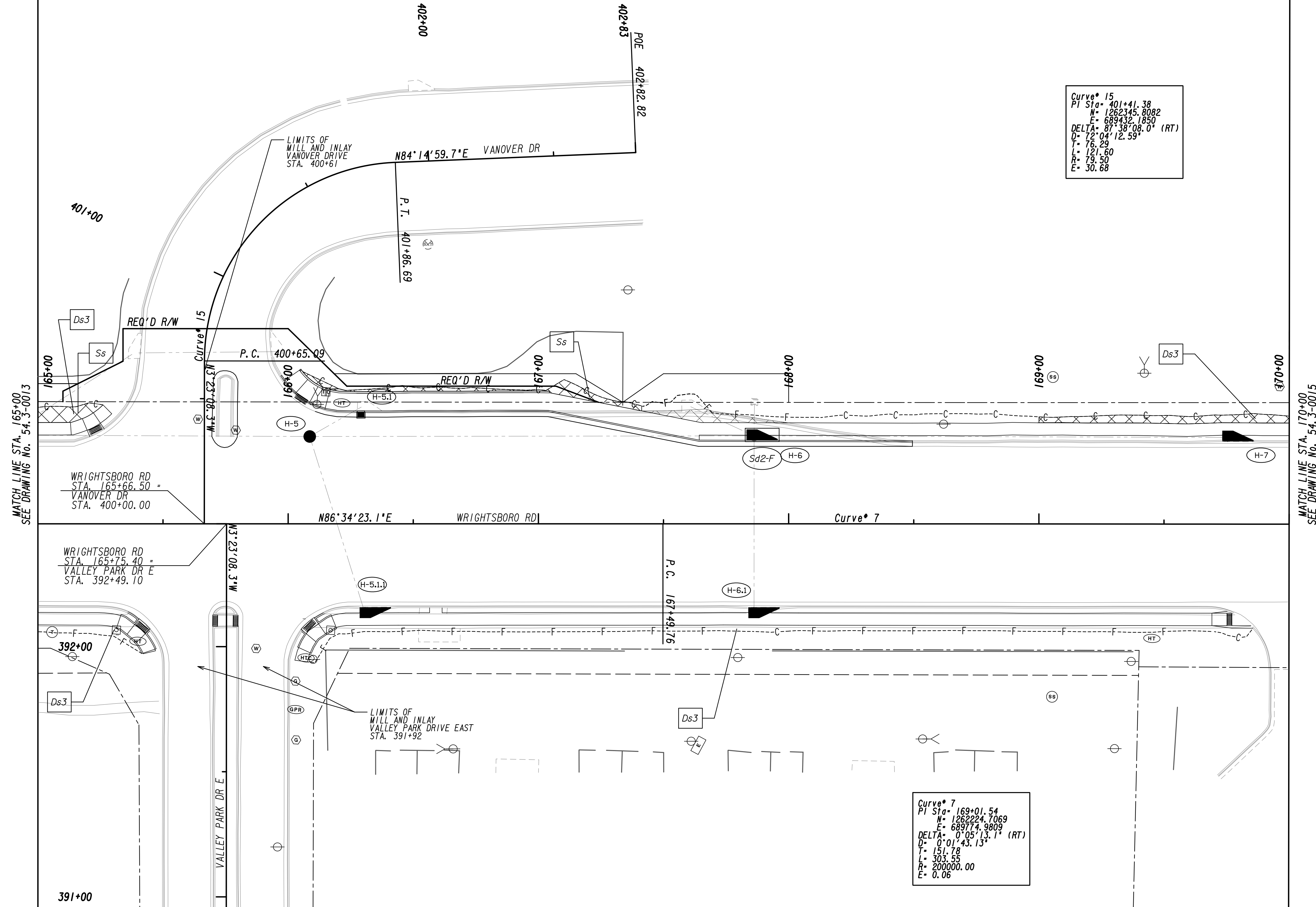
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REVISION DATES	
12-21-22	

BMP LOCATION DETAILS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE
 FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54.3-0013
CORRECTED:	DATE:	
VERIFIED:	DATE:	

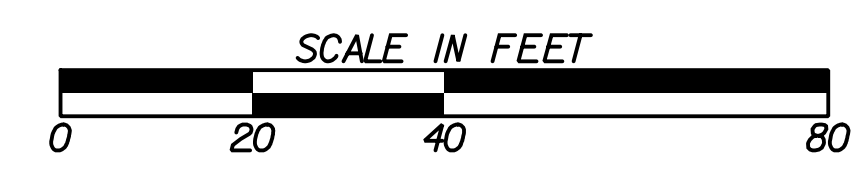


MATCH LINE STA. 165+00
 SEE DRAWING No. 54.3-0013

MATCH LINE STA. 170+00
 SEE DRAWING No. 54.3-0015

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



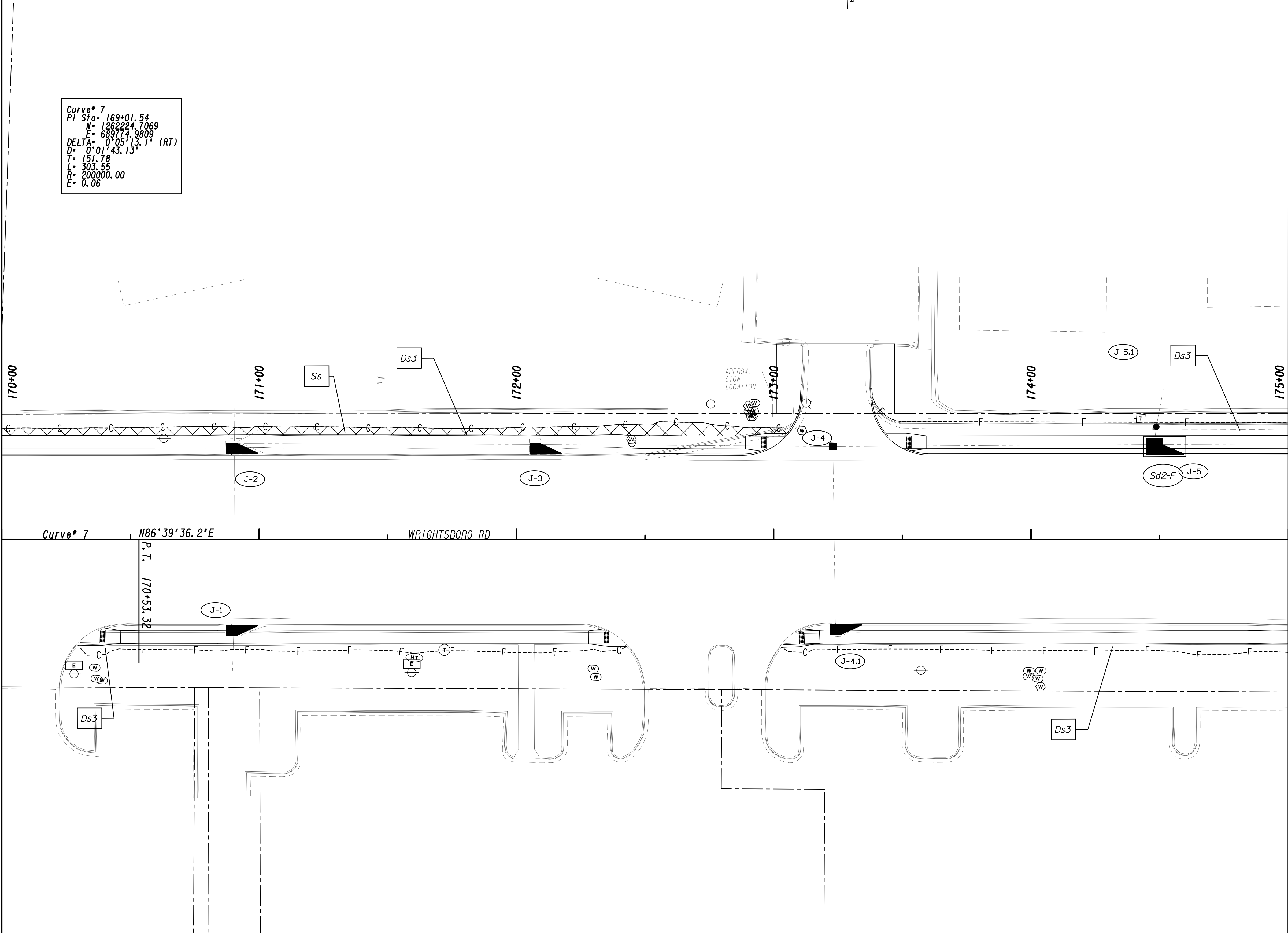
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS		
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54.3-0014
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Curve* 7
 PI Sta= 169+01.54
 N= 1262224.7069
 E= 689774.9809
 DELTA= 0°05'13.1" (RT)
 D= 0°01'43.13"
 T= 151.78
 L= 303.55
 R= 200000.00
 E= 0.06

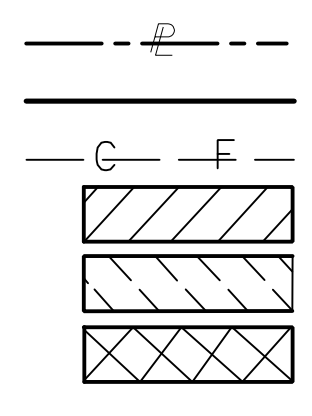
MATCH LINE STA. 170+00
SEE DRAWING No. 54.3-0014

MATCH LINE STA. 175+00
SEE DRAWING No. 54.3-0016



Curve* 7 N86°39'36.2"E
 P.T. 170+53.32
 WRIGHTSBORO RD

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

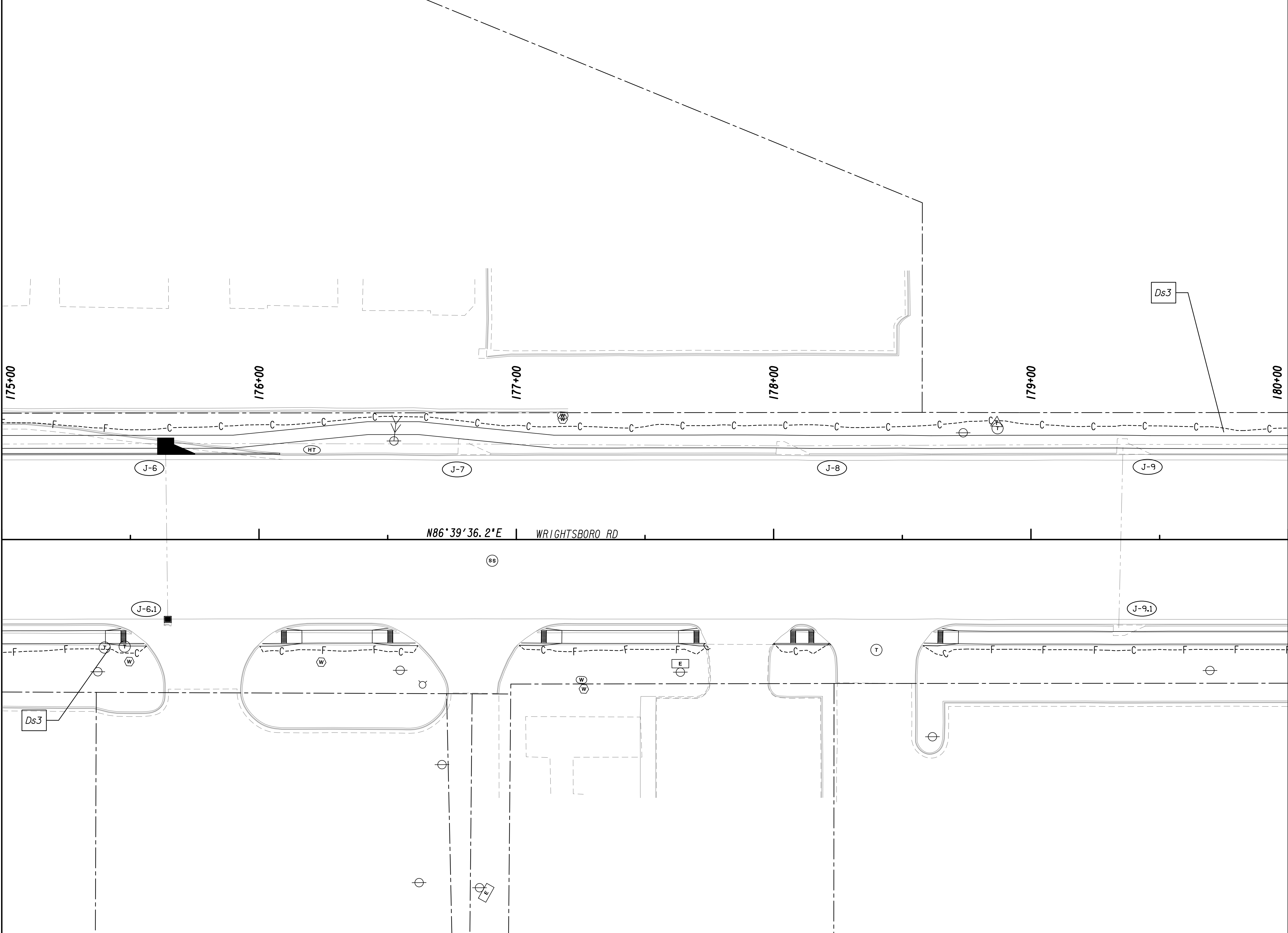


REVISION DATES	
12-21-22	

BMP LOCATION DETAILS		
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54.3-0015
CORRECTED:	DATE:	
VERIFIED:	DATE:	

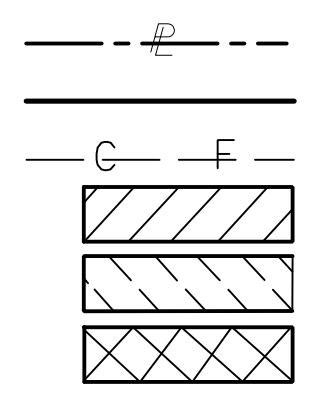


MATCH LINE STA. 175+00
SEE DRAWING No. 54.3-0015



MATCH LINE STA. 180+00
SEE DRAWING No. 54.3-0017

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



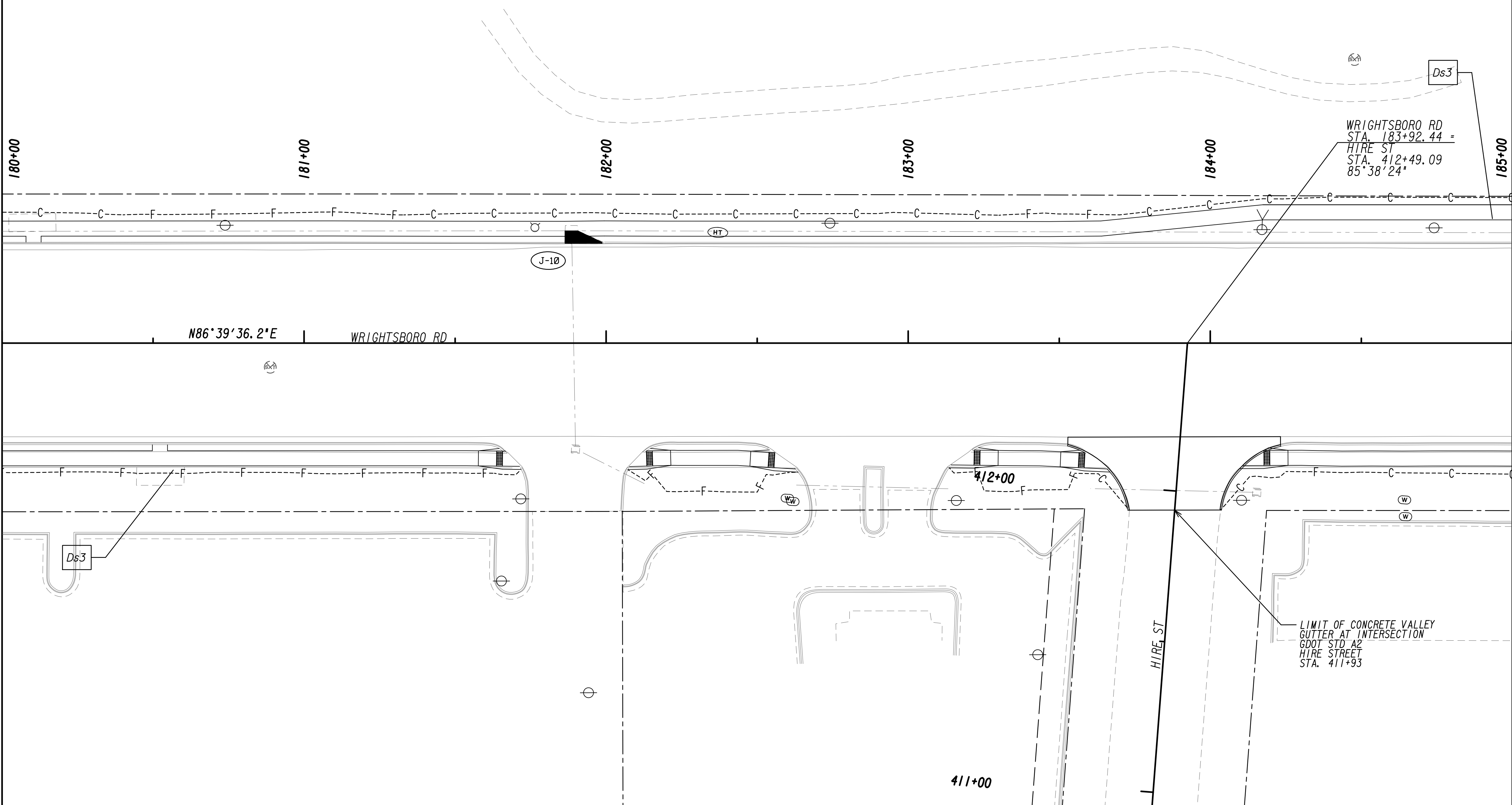
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE
 FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54.3-0016
CORRECTED:	DATE:	
VERIFIED:	DATE:	

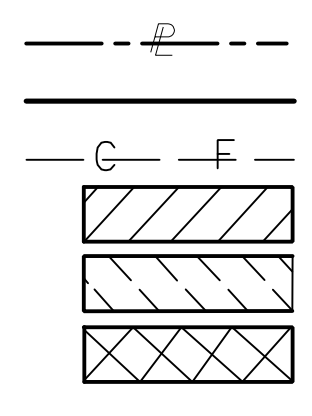


MATCH LINE STA. 180+00
SEE DRAWING No. 54.3-0016

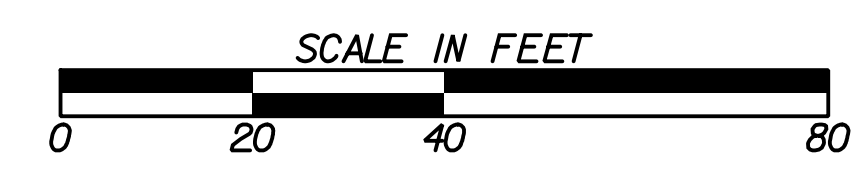


MATCH LINE STA. 185+00
SEE DRAWING No. 54.3-0018

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

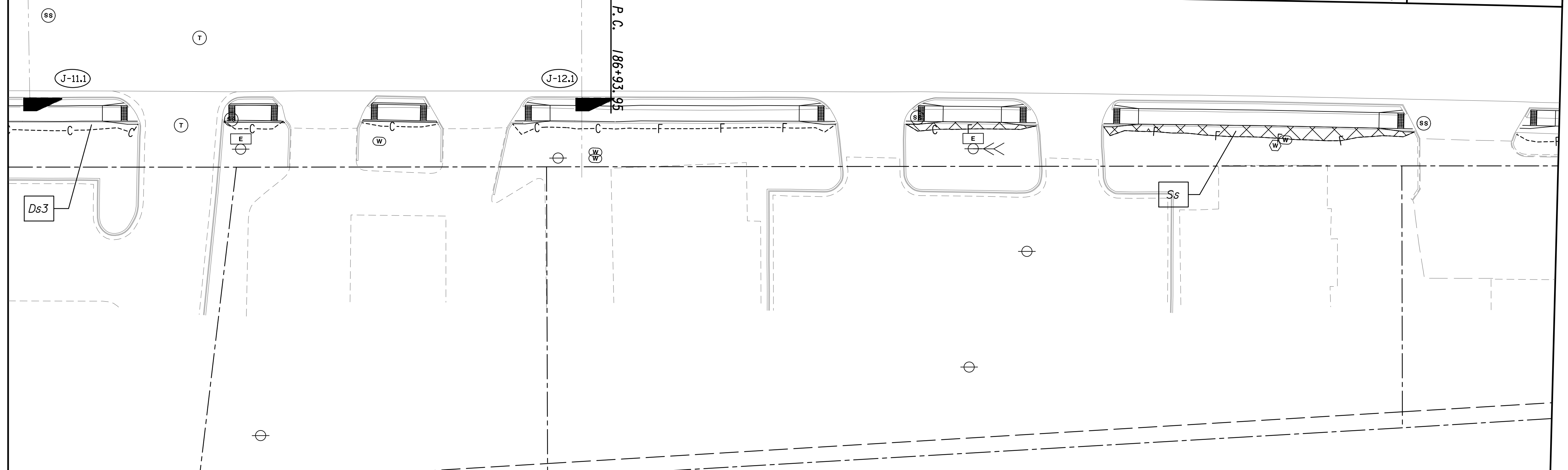
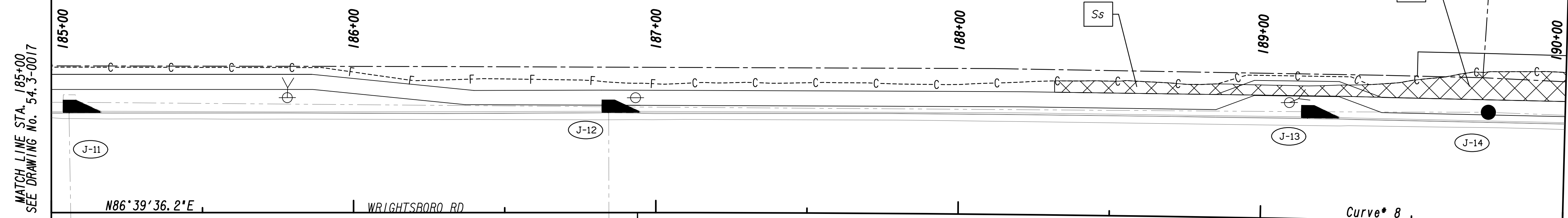


REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:		
			DRAWING No. 54.3-0017



Curve* 8
 PI Sta= 191+34.33
 W= 1262354.7895
 E= 692003.9739
 DELTA= 4°12'12.3" (RT)
 D= 0°28'38.87"
 T= 440.38
 L= 880.76
 R= 12000.00
 E= 8.08

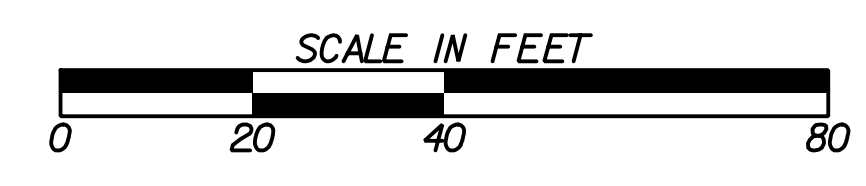


MATCH LINE STA. 185+00
 SEE DRAWING No. 54.3-0017

MATCH LINE STA. 190+00
 SEE DRAWING No. 54.3-0019

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

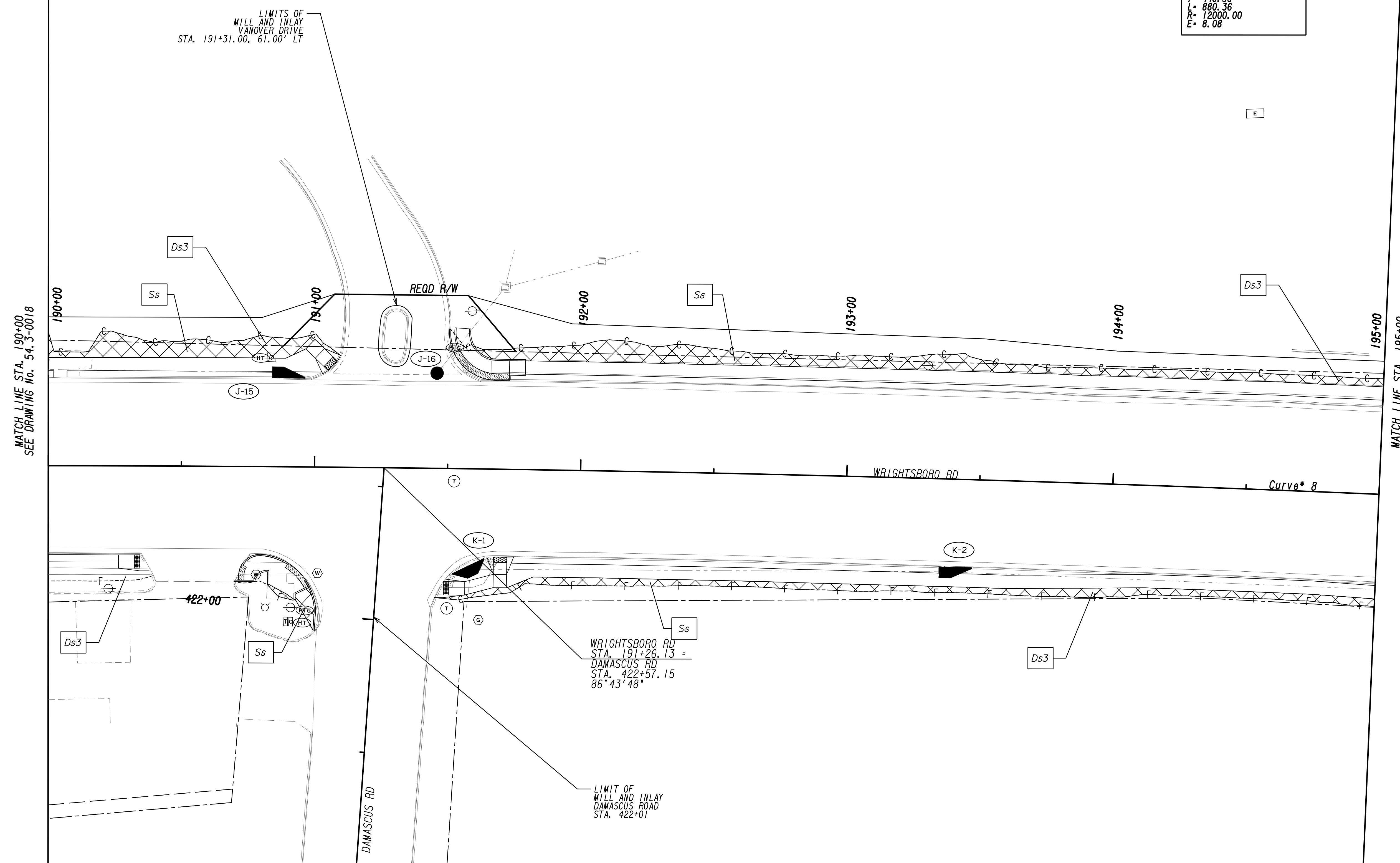
— P — BEGIN LIMIT OF ACCESS.....BLA
 — ELA END LIMIT OF ACCESS.....ELA
 — C — F — LIMIT OF ACCESS
 — III — III — REQ'D R/W & LIMIT OF ACCESS
 — ● — ● — ORANGE BARRIER FENCE
 — ▽ — ▽ — ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:		
			DRAWING No. 54.3-0018

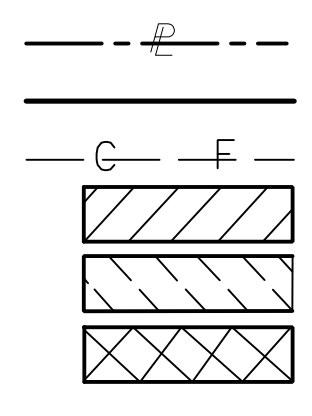
Curve* 8
 PI Sta= 191+34.33
 N= 1262354.7895
 E= 692003.9739
 DELTA= 7°12'12.3" (RT)
 D= 0'28"38.87"
 L= 440.38
 R= 880.36
 E= 12000.00
 E= 8.08



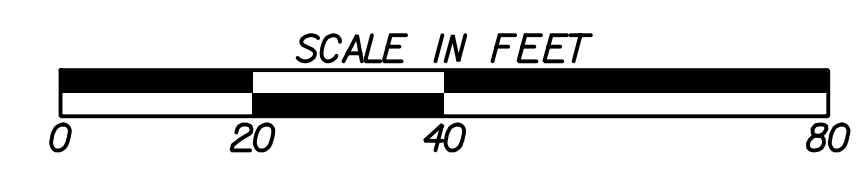
MATCH LINE STA. 190+00
SEE DRAWING No. 54.3-0018

MATCH LINE STA. 195+00
SEE DRAWING No. 54.3-0020

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	BACKCHECKED:	DATE:
CORRECTED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:	VERIFIED:	DATE:
			DRAWING No. 54.3-0019

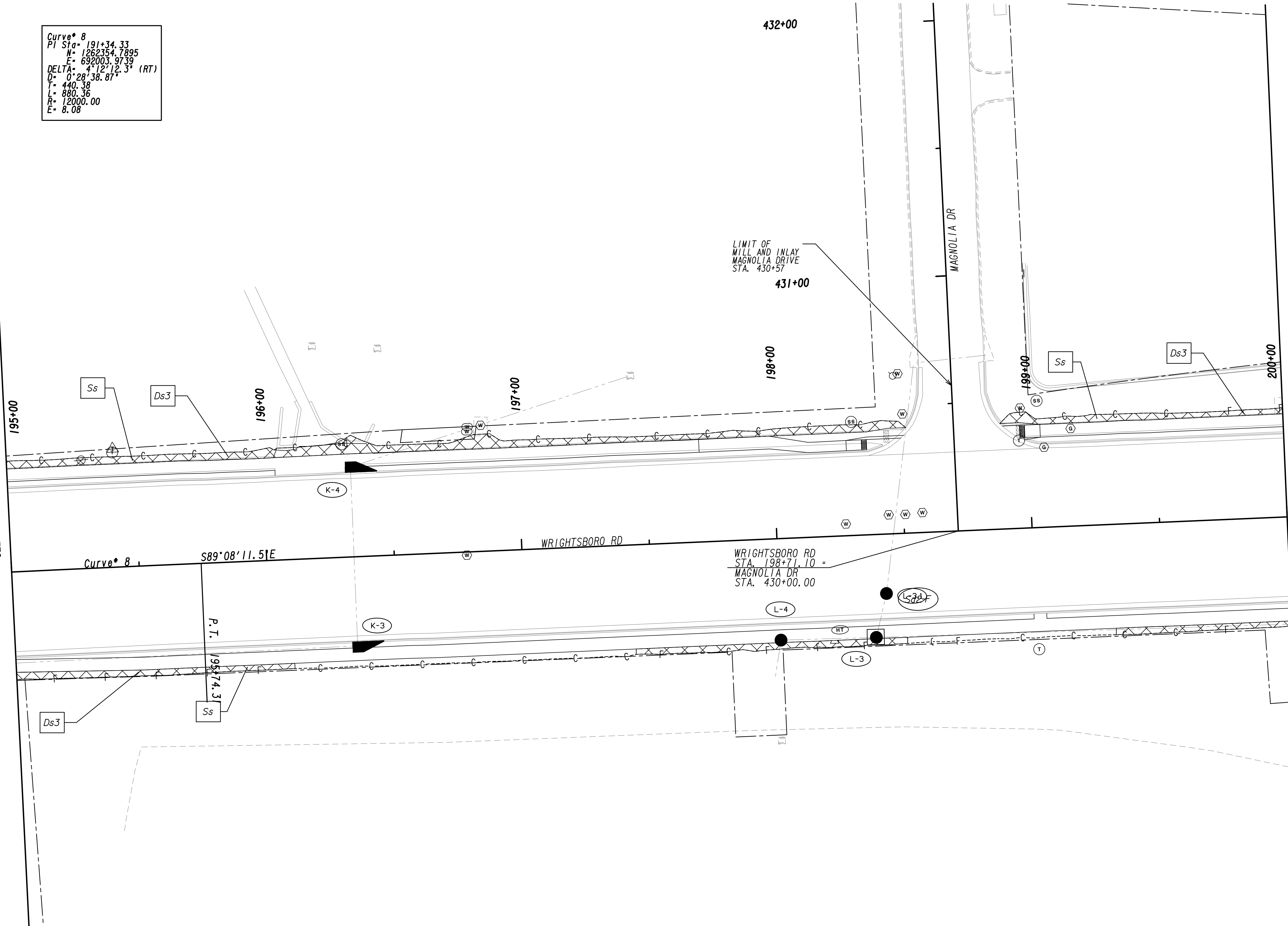


Curve* 8
 PI Sta= 191+34.33
 N= 1262354.7895
 E= 692003.9739
 DELTA= 4°12'12.3" (RT)
 D= 0'28"38.87"
 T= 440.38
 L= 880.36
 R= 12000.00
 E= 8.08



MATCH LINE STA. 195+00
 SEE DRAWING No. 54.3-0019

MATCH LINE STA. 200+00
 SEE DRAWING No. 54.3-0021



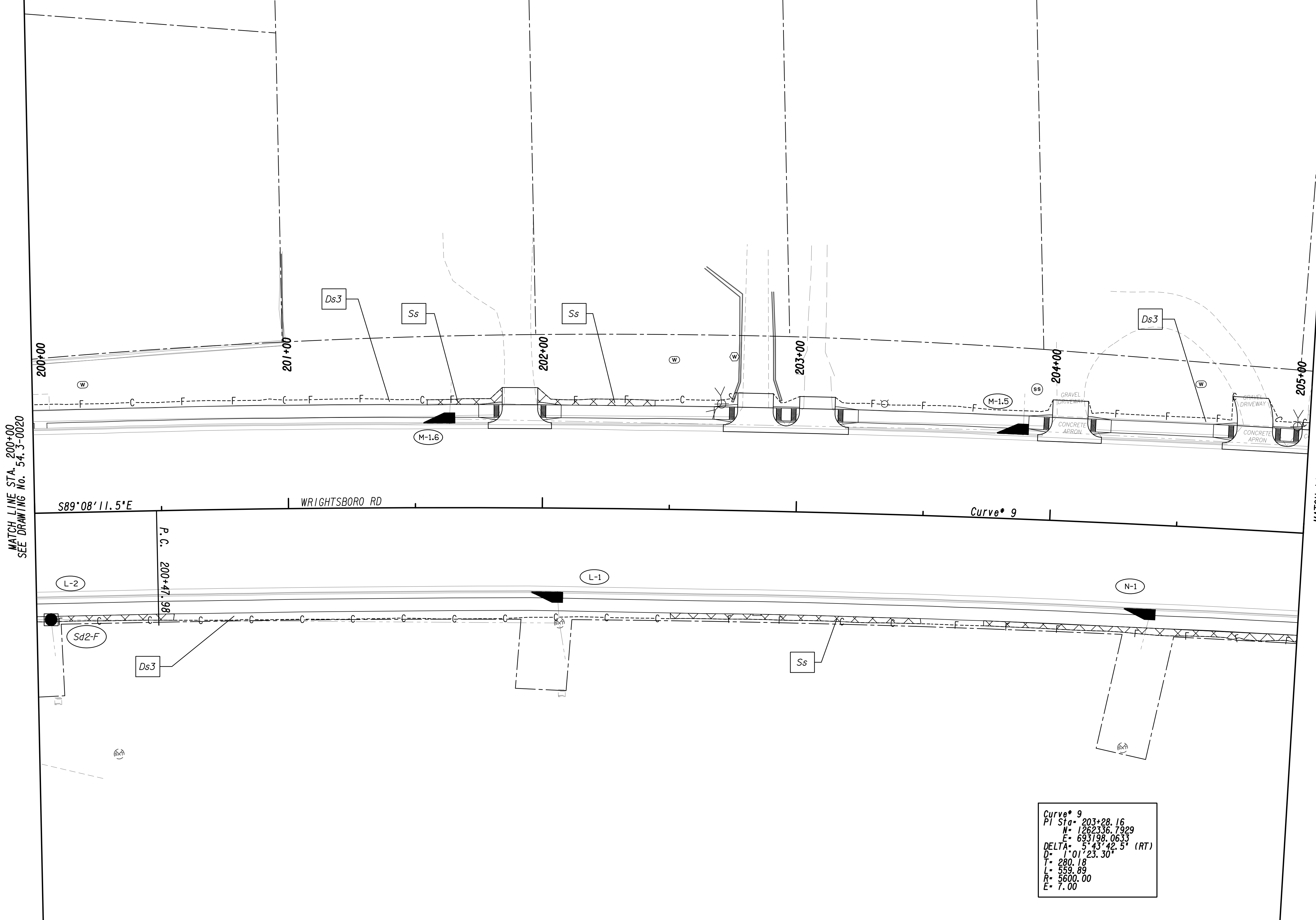
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



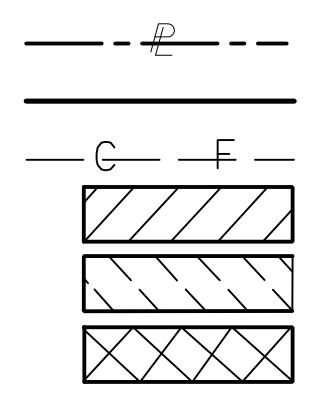
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0020	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

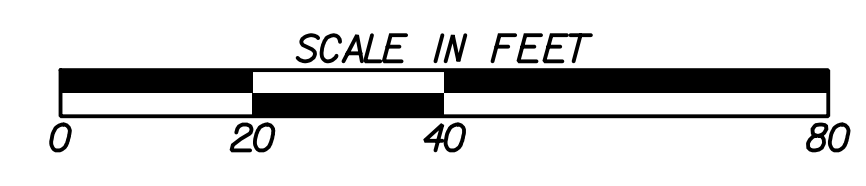


Curve* 9
 PI Sta = 203+28.16
 M = 126336.7929
 E = 693198.0633
 DELTA = 5°43'42.5" (RT)
 D = 1°01'23.30"
 T = 280.18
 L = 559.89
 R = 5600.00
 E = 7.00

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

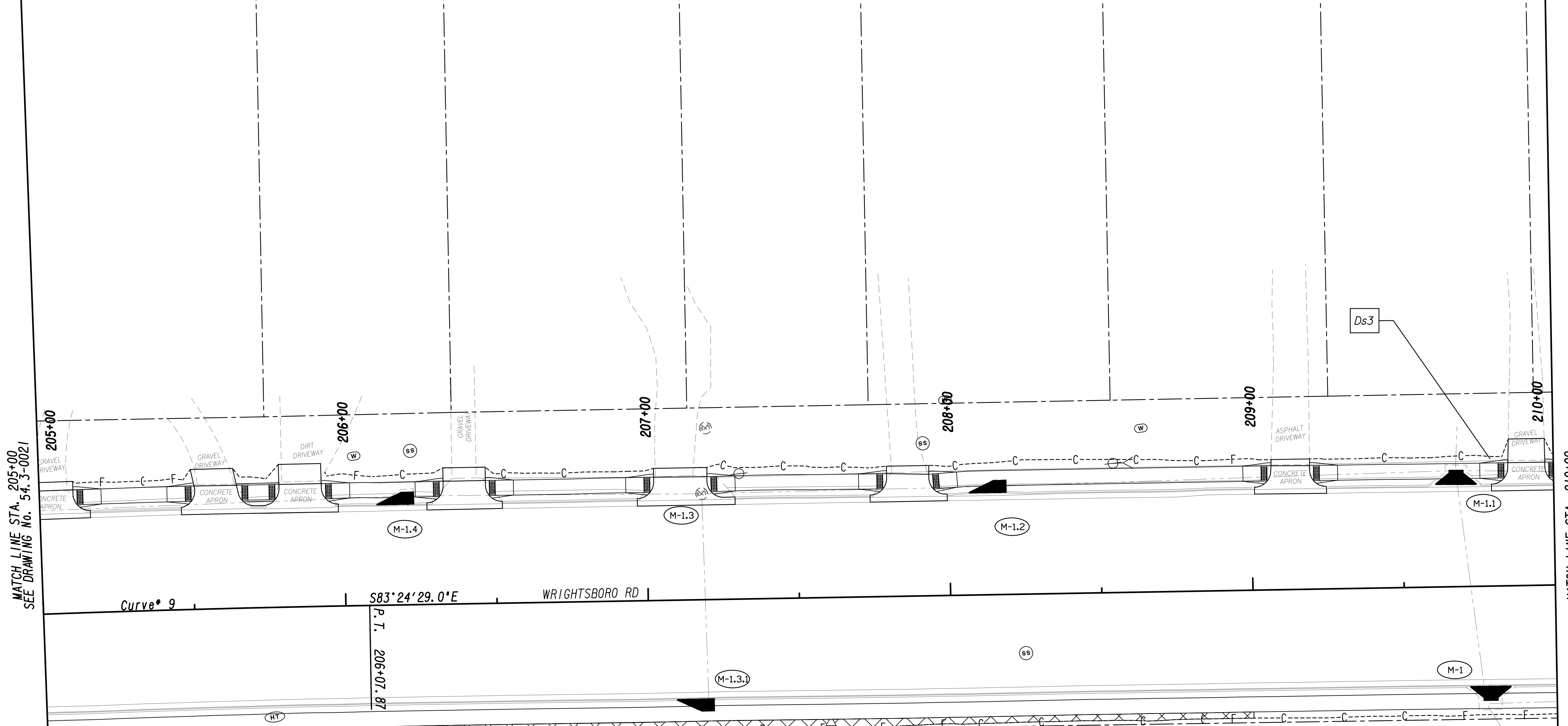


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:		
			DRAWING No. 54.3-0021



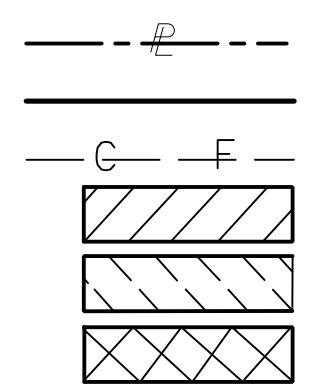
MATCH LINE STA. 205+00
 SEE DRAWING No. 54.3-0021

MATCH LINE STA. 210+00
 SEE DRAWING No. 54.3-0023

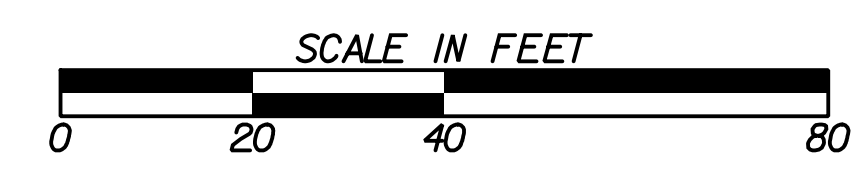
Curve* 9 S83°24'29.0"E WRIGHTSBORO RD

P.T. 206+07.87

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

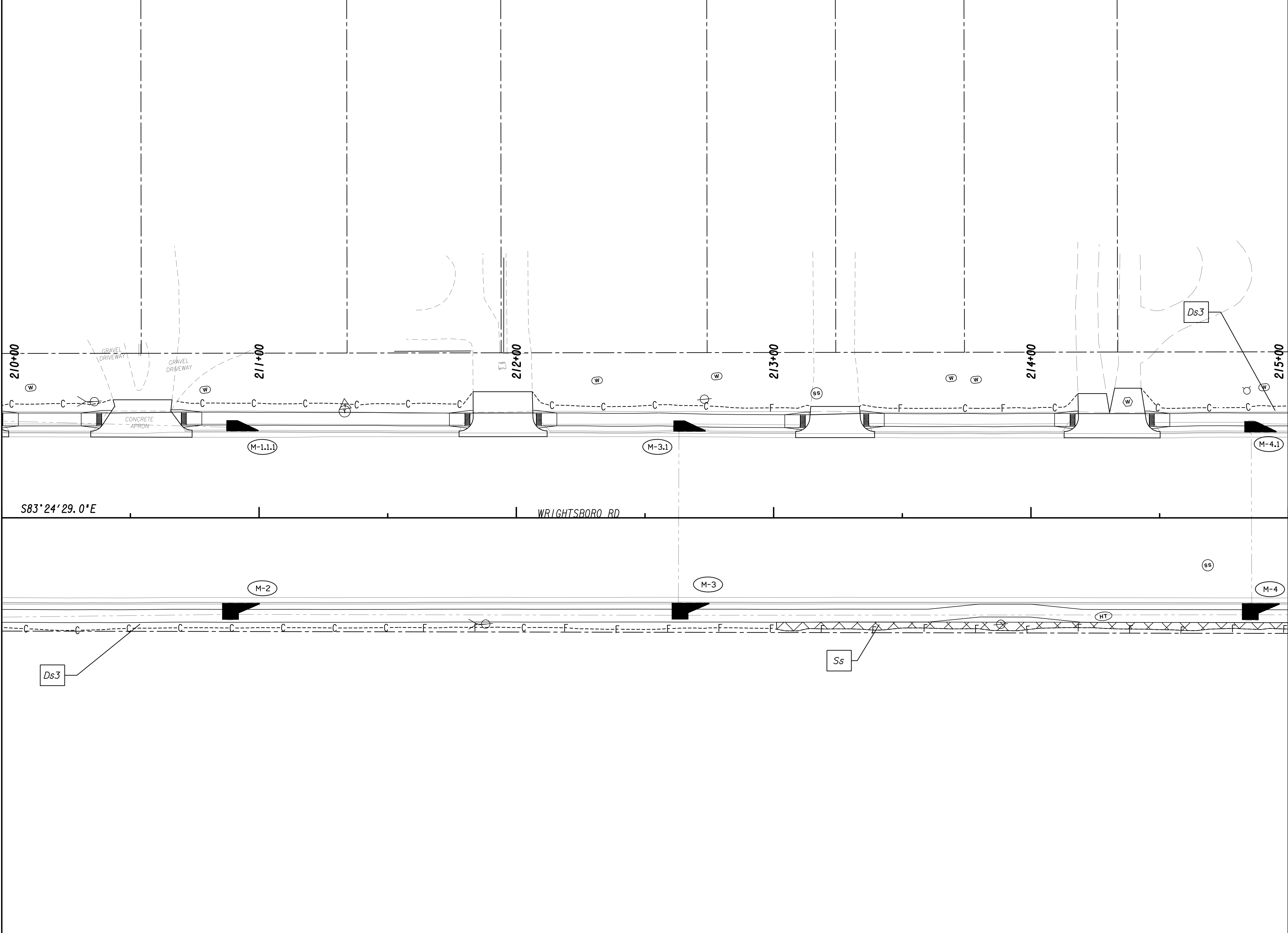


REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0022	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

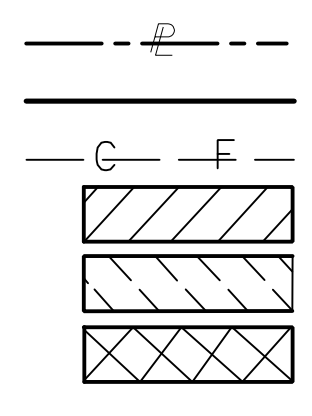


MATCH LINE STA. 210+00
SEE DRAWING No. 54.3-0022



MATCH LINE STA. 215+00
SEE DRAWING No. 54.3-0024

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

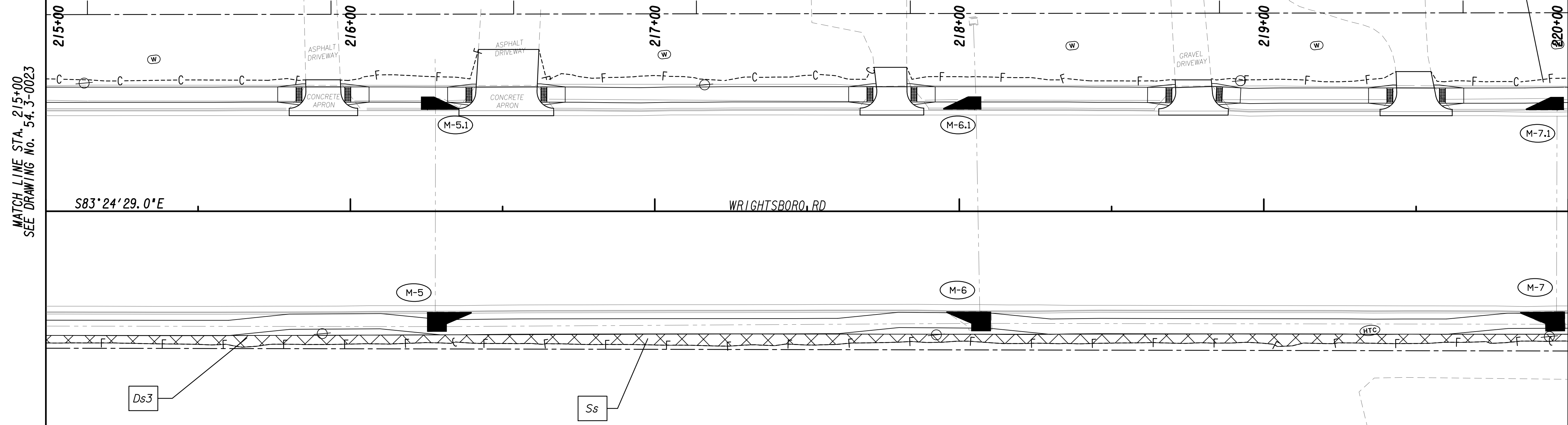


REVISION DATES	
12-21-22	

BMP LOCATION DETAILS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE
 FINAL PHASE

CHECKED:	DATE:
BACKCHECKED:	DATE:
CORRECTED:	DATE:
VERIFIED:	DATE:

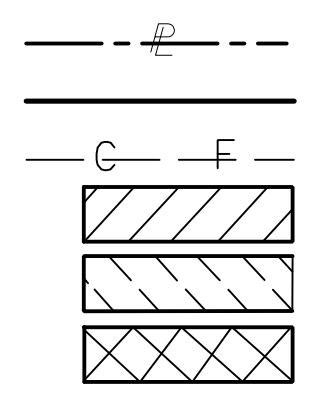
DRAWING No. 54.3-0023



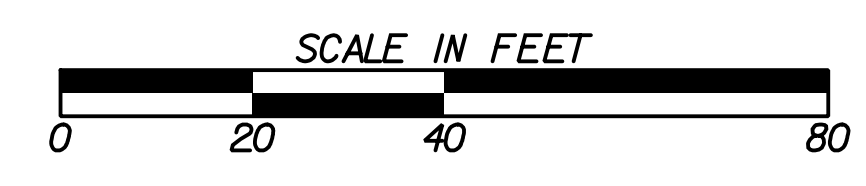
MATCH LINE STA. 215+00
SEE DRAWING No. 54.3-0023

MATCH LINE STA. 220+00
SEE DRAWING No. 54.3-0025

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

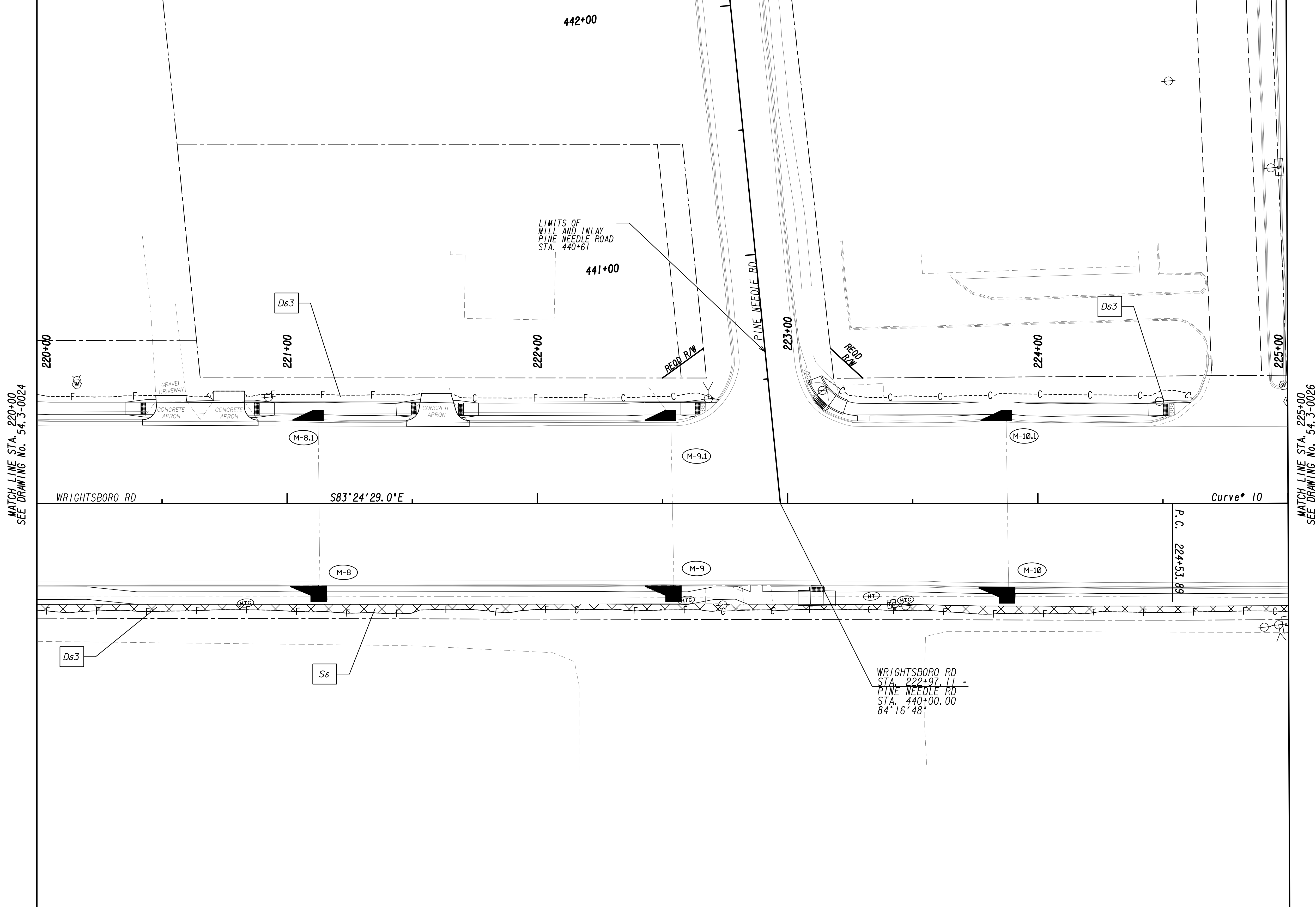


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

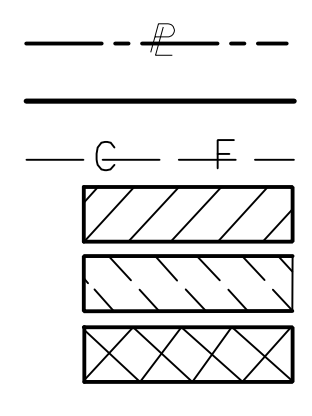


REVISION DATES	
12-21-22	

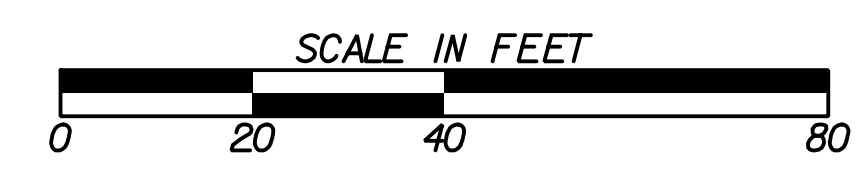
BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0024	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

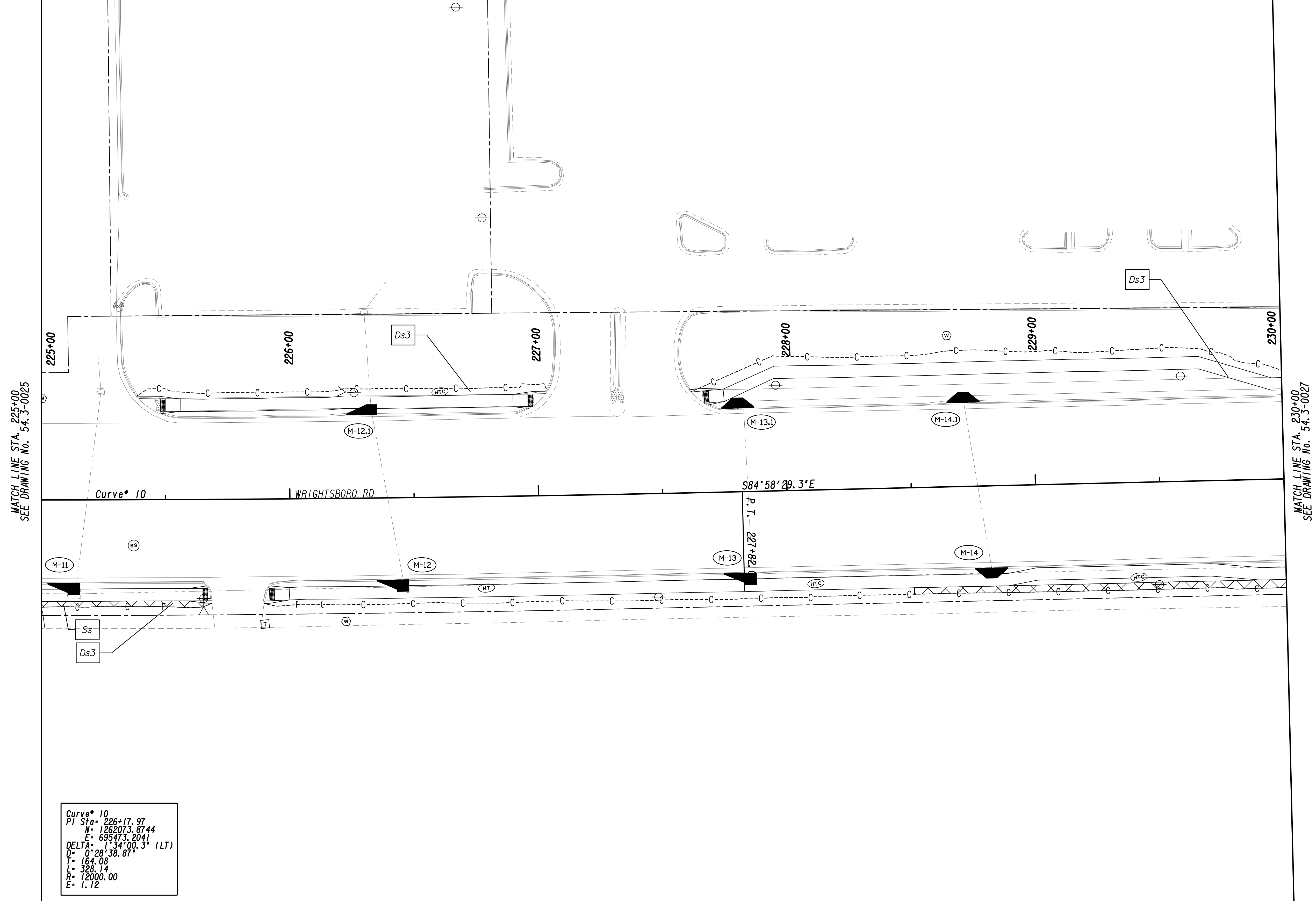


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-3-0025	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



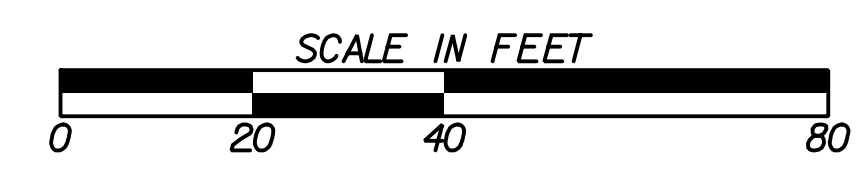
MATCH LINE STA. 225+00
 SEE DRAWING No. 54.3-0025

MATCH LINE STA. 230+00
 SEE DRAWING No. 54.3-0027

Curve* 10
 PI Sta= 226+17.97
 N= 1262073.8744
 E= 695473.2041
 DELTA= 1°34'00.3" (LT)
 D= 0'28"38.87"
 T= 164.08
 L= 328.14
 R= 2000.00
 E= 1.12

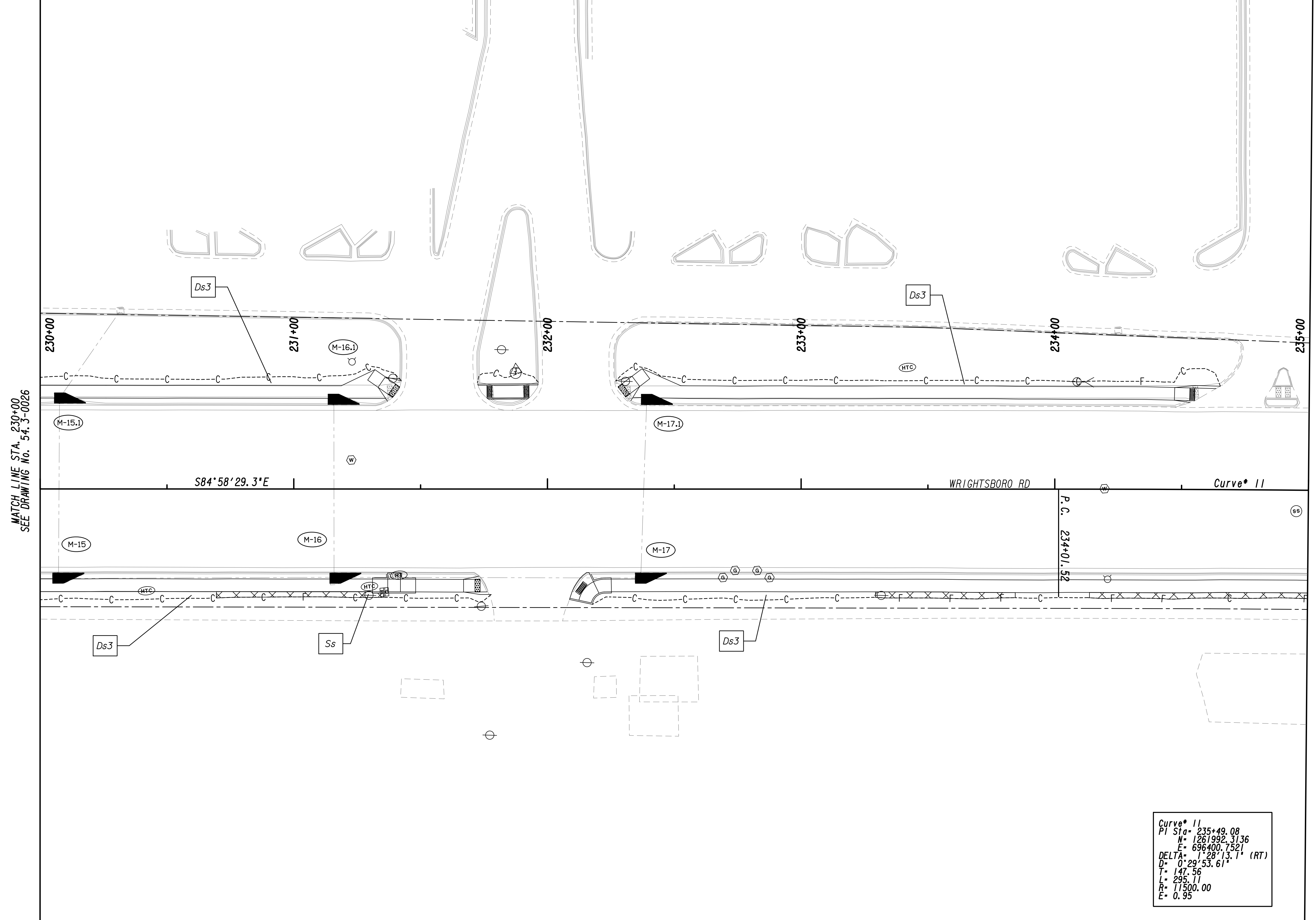
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
VERIFIED:	DATE:		
			DRAWING No. 54.3-0026

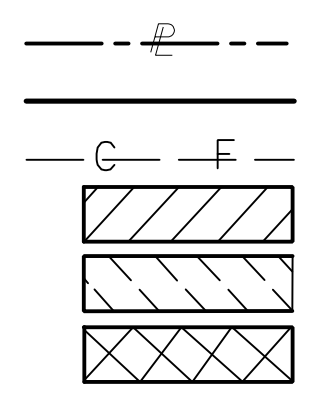


MATCH LINE STA. 230+00
SEE DRAWING No. 54.3-0026

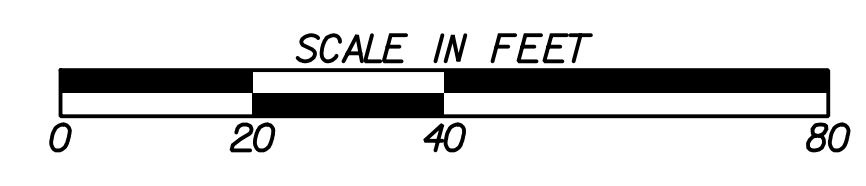
MATCH LINE STA. 235+00
SEE DRAWING No. 54.3-0028

Curve 11
 PI Sta = 235+49.08
 N = 1261992.3136
 E = 696400.7321
 DELTA = 128°13.1' (RT)
 D = 0°29'53.61"
 T = 147.56
 L = 235.11
 R = 11500.00
 E = 0.95

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



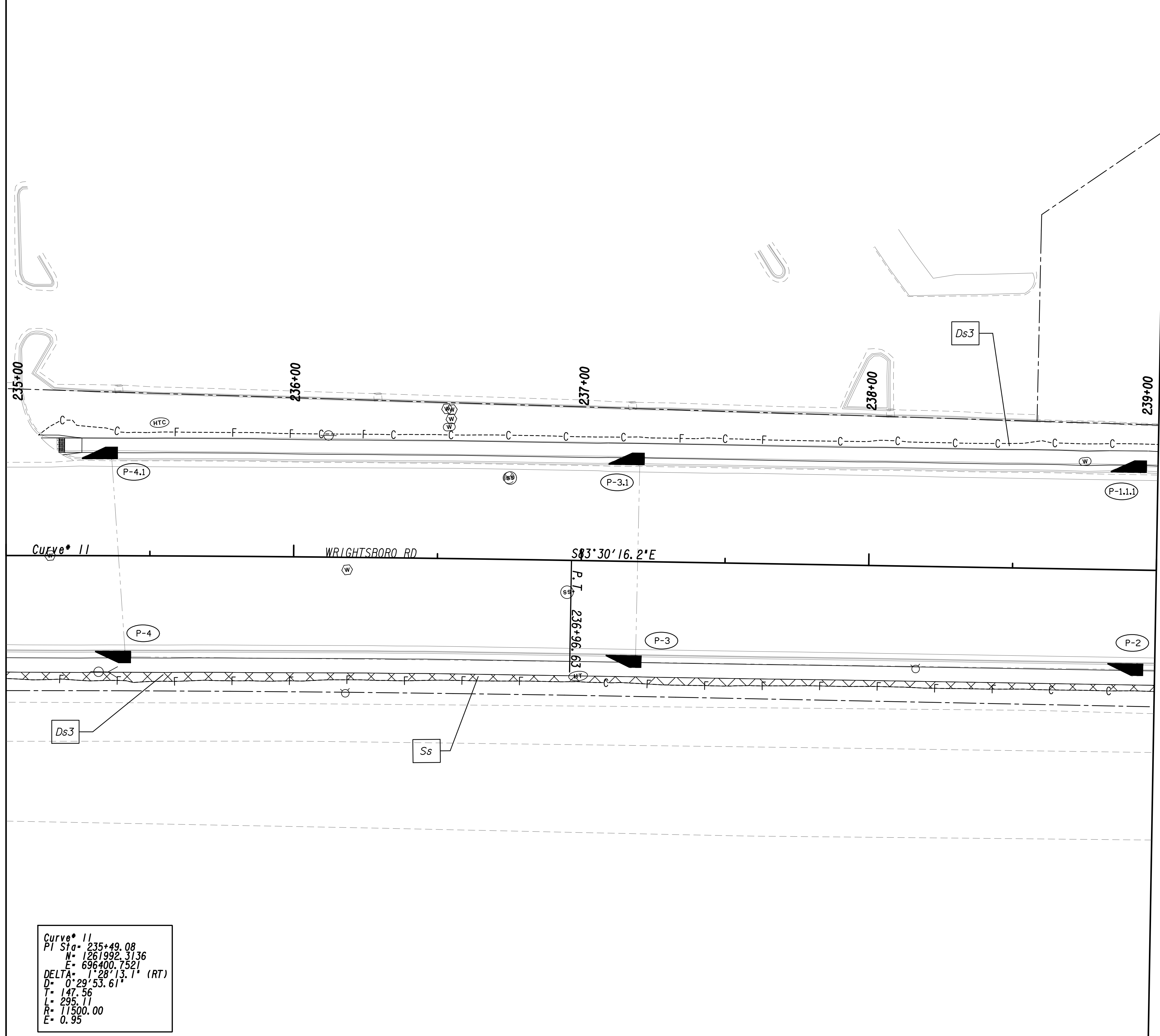
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:		DRAWING No.
BACKCHECKED:	DATE:		54.3-0027
CORRECTED:	DATE:		
VERIFIED:	DATE:		



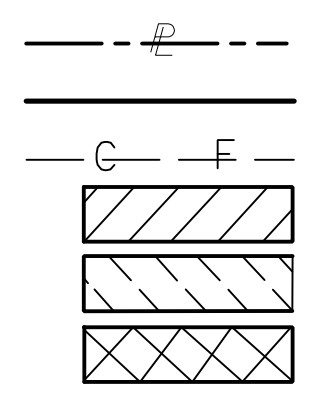
MATCH LINE STA. 235+00
SEE DRAWING No. 54.3-0027

MATCH LINE STA. 239+00
SEE DRAWING No. 54.3-0029



Curve* 11
 PI Sta= 235+49.08
 N= 1261992.3136
 E= 696400.7521
 DELTA= 1° 28' 13.1\" (RT)
 D= 0' 29' 53.61\"
 T= 147.56
 L= 295.11
 R= 11500.00
 E= 0.95

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

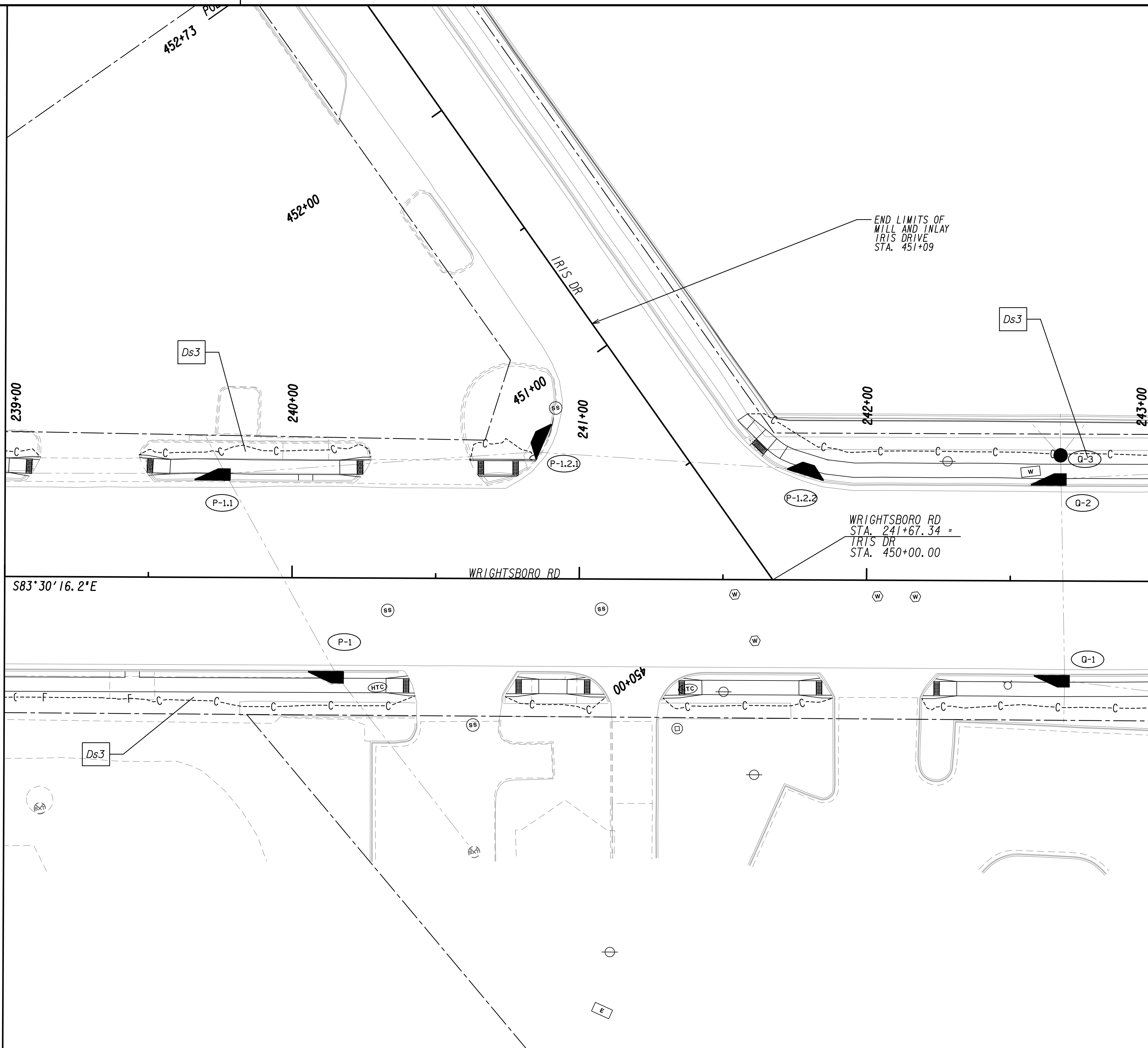


BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0028	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 239+00
SEE DRAWING No. 54.3-0028

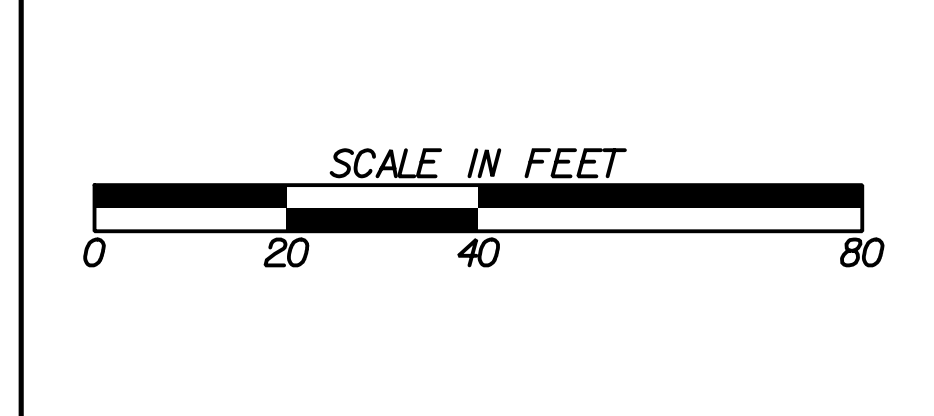
MATCH LINE STA. 243+00
SEE DRAWING No. 54.3-0030

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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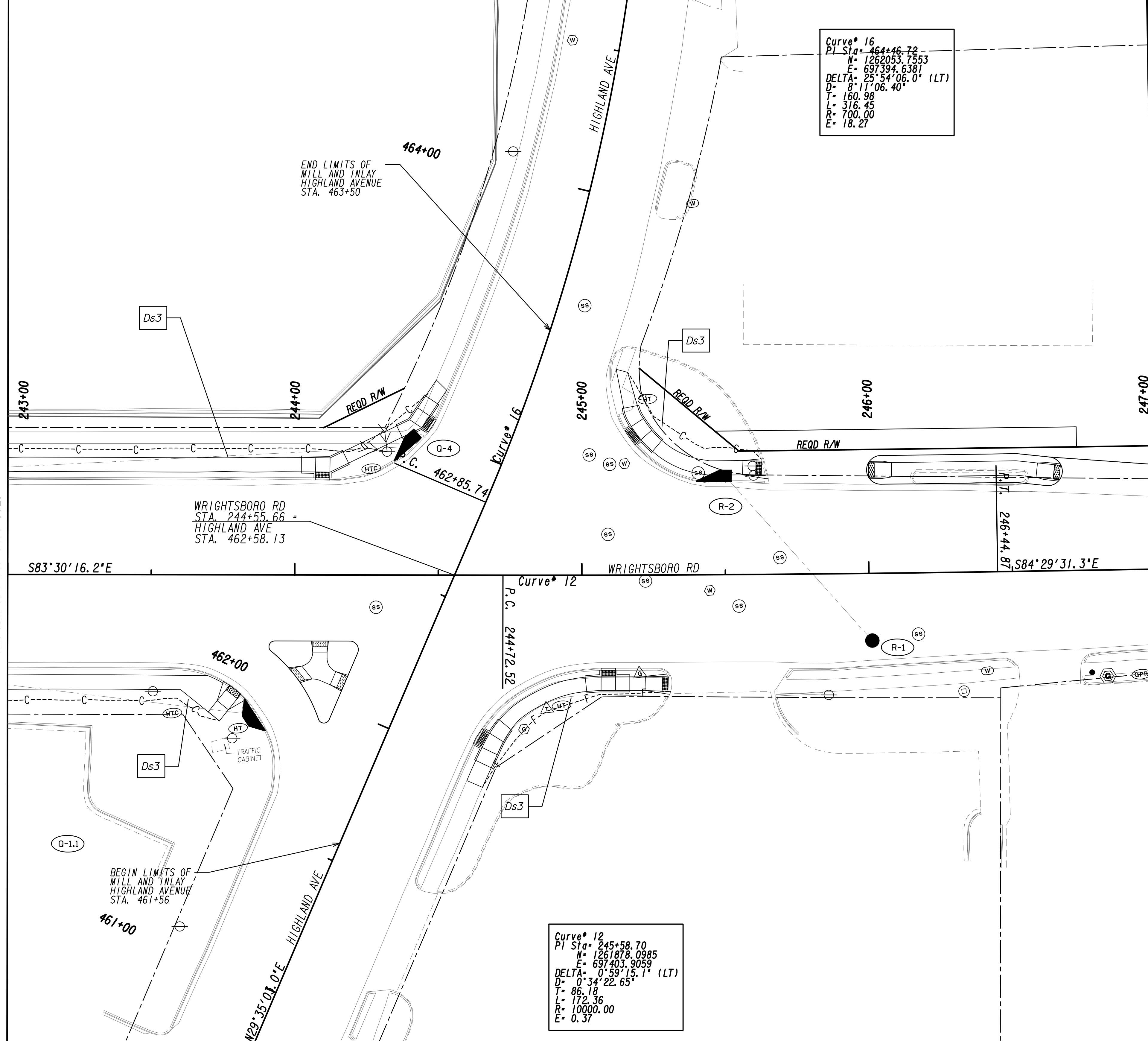
6745 Sugarloaf Parkway, Suite 100
 Duluth, GA 30097
 770.447.8999 - www.chacompanies.com



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS
 WRIGHTSBORO RD RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS
 FROM MARKS CHURCH RD TO HIGHLAND AVENUE
 FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54.3-0029
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve* 16
 PI Sta= 464+46.72
 N= 1262053.7553
 E= 697394.6381
 DELTA= 25°54'06.0" (LT)
 D= 8°17'06.40"
 T= 160.98
 L= 316.45
 R= 700.00
 E= 18.27

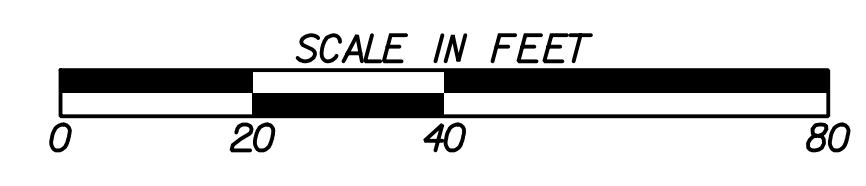
Curve* 12
 PI Sta= 245+58.70
 N= 1261878.0985
 E= 697403.9059
 DELTA= 0°59'15.1" (LT)
 D= 0°34'22.65"
 T= 86.18
 L= 172.36
 R= 10000.00
 E= 0.37

MATCH LINE STA. 243+00
 SEE DRAWING NO. 54-3-0029

MATCH LINE STA. 247+00
 SEE DRAWING NO. 54-3-0031

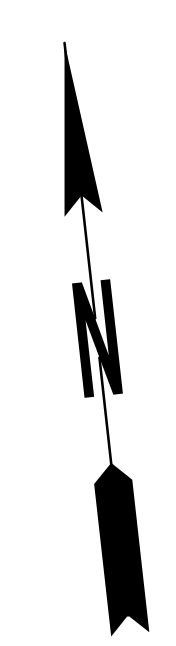
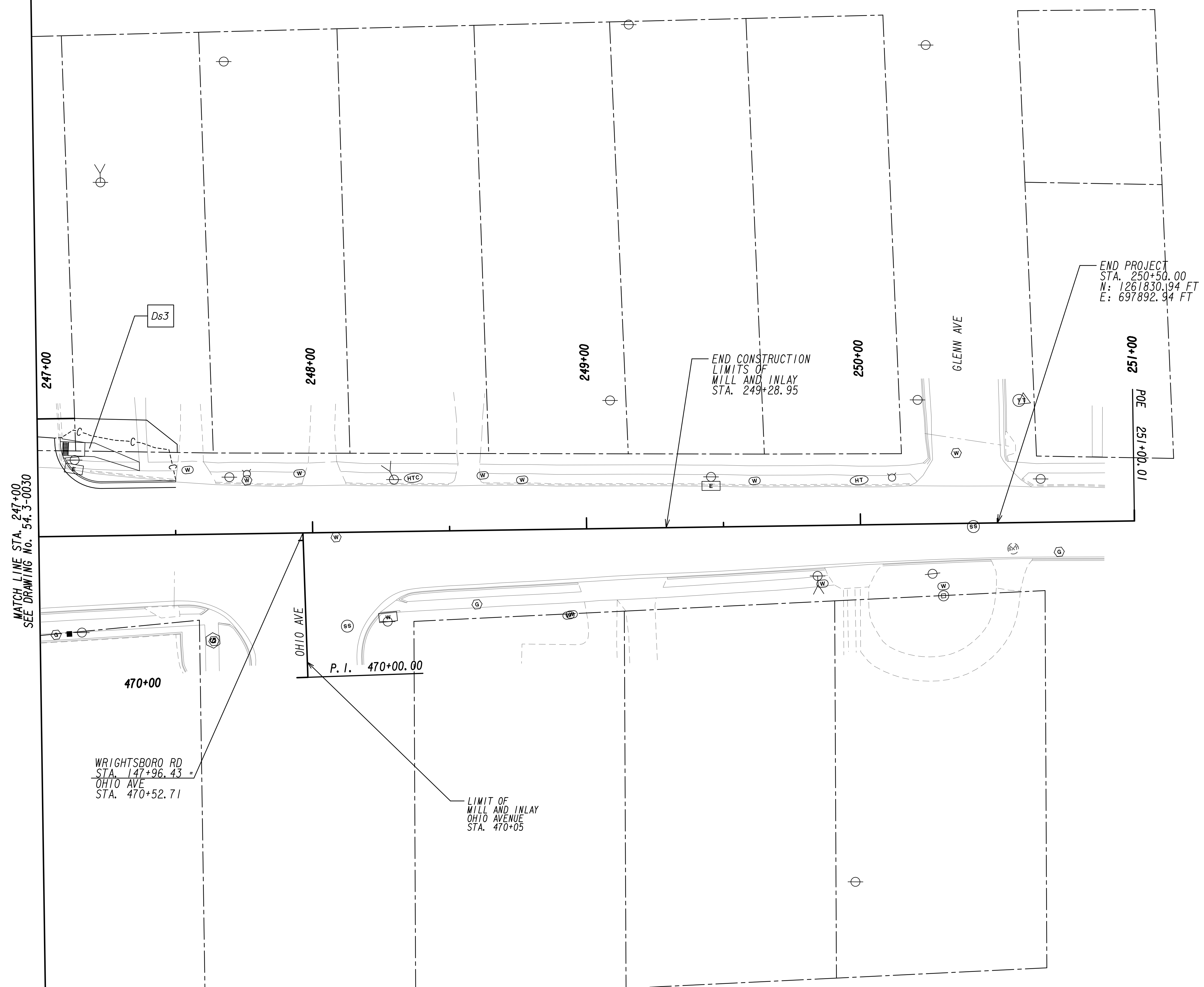
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

— P ——— BEGIN LIMIT OF ACCESS.....BLA
 ——— END LIMIT OF ACCESS.....ELA
 ——— LIMIT OF ACCESS
 ——— REQ'D R/W & LIMIT OF ACCESS
 [Hatched] ORANGE BARRIER FENCE
 [Hatched] ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



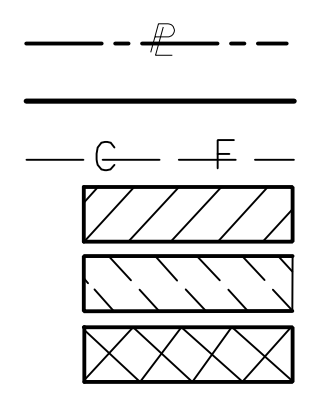
REVISION DATES	
12-21-22	

BMP LOCATION DETAILS		
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-3-0030
CORRECTED:	DATE:	
VERIFIED:	DATE:	

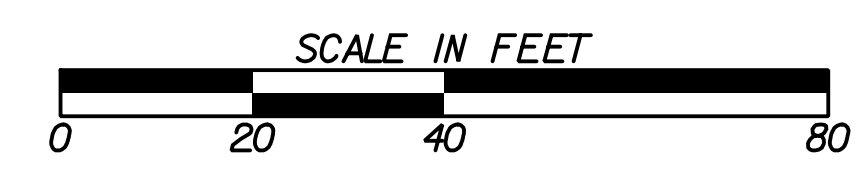


MATCH LINE STA. 247+00
 SEE DRAWING No. 54.3-0030

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	
12-21-22	

BMP LOCATION DETAILS			
WRIGHTSBORO RD RECONSTRUCTION AND PEDESTRIAN IMPROVEMENTS FROM MARKS CHURCH RD TO HIGHLAND AVENUE FINAL PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54.3-0031	
CORRECTED:	DATE:		
VERIFIED:	DATE:		