

Construction Plans  
For  
Midlands Technical College - Airport Campus  
Deferred Maintenance -  
Parking Lot and Road Repairs  
State Project No: H59-6202-PD

Contact: Tommy Wise  
Tel: (803) 822-6757  
Email: franklintwise@midlandstech.edu



Prepared by:  
**Chao & Associates, Inc.**  
Consulting Engineers  
C & A #: 398545-24

Please note that all work must be completed within 90 days of the Date of Commencement in the Notice to Proceed.

ZONING CERTIFICATION

"I hereby certify that, to the best of my knowledge, these plans comply with all applicable zoning ordinances, and that plans have been submitted to appropriate authority for their review and/or approval."

Engineer

03/21/2025

Date

TABLE 1 FLOOD HAZARD INFORMATION & FLOOD LOADS

FLOOD HAZARD AREA

Flood Map Information:

Flood Zone: X

Community Number: 450129

Panel Number: 0278J

Is the Project Site in a 100-Year Floodplain?

N/A

Yes

No

Base Flood Elevation (NGVD or FIRM)

N/A

Design Flood Elevation (IBC 1612.3 and ASCE 24)

N/A

EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT

Designer's Certification:

"I hereby certify that the measures in this plan are designed to control erosion, retain sediment on the site, and manage stormwater in a manner that neither any on-site nor off-site damage or problem is caused or increased, that all structural measures are designed to the minimum standards for health and safety, and that all the provisions of the plan are in compliance with the Regulations contained in Chapter 72, Article 2, SC Code of Regulations (Erosion and Sediment Reduction and Stormwater Management Regulations"

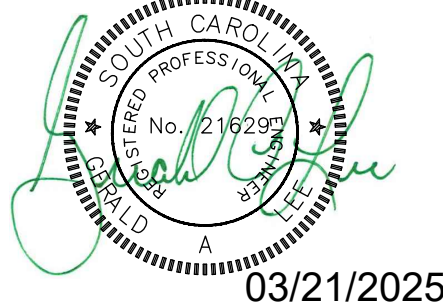
Engineer

03/21/2025

Date



Chao & Associates, Inc.  
Civil - Structural - Survey  
7 Clusters Court  
Columbia, SC 29210  
Voice: (803) 772-8420  
Fax: (803) 772-9120  
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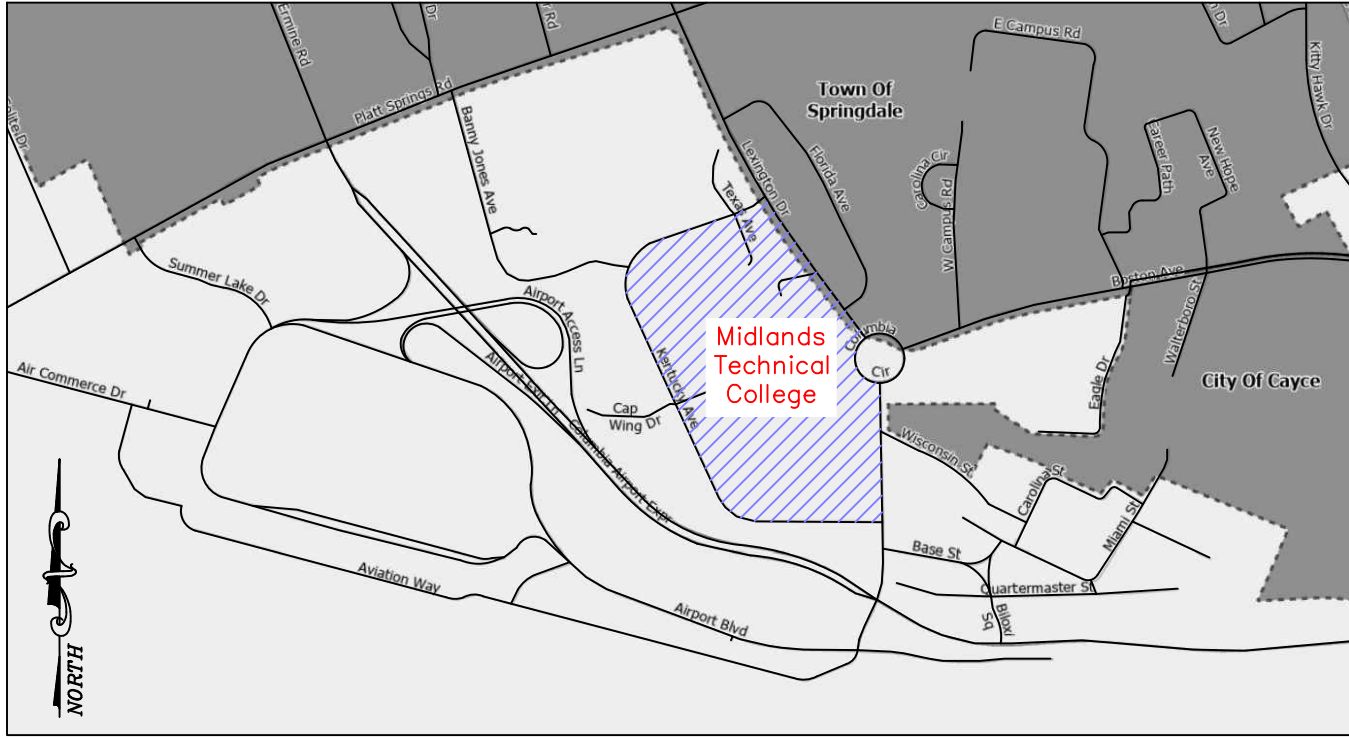


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- C100 - Overall Repair Plan
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- C201 - Existing Cond. & Repair Plan
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- C207A - Striping Plan
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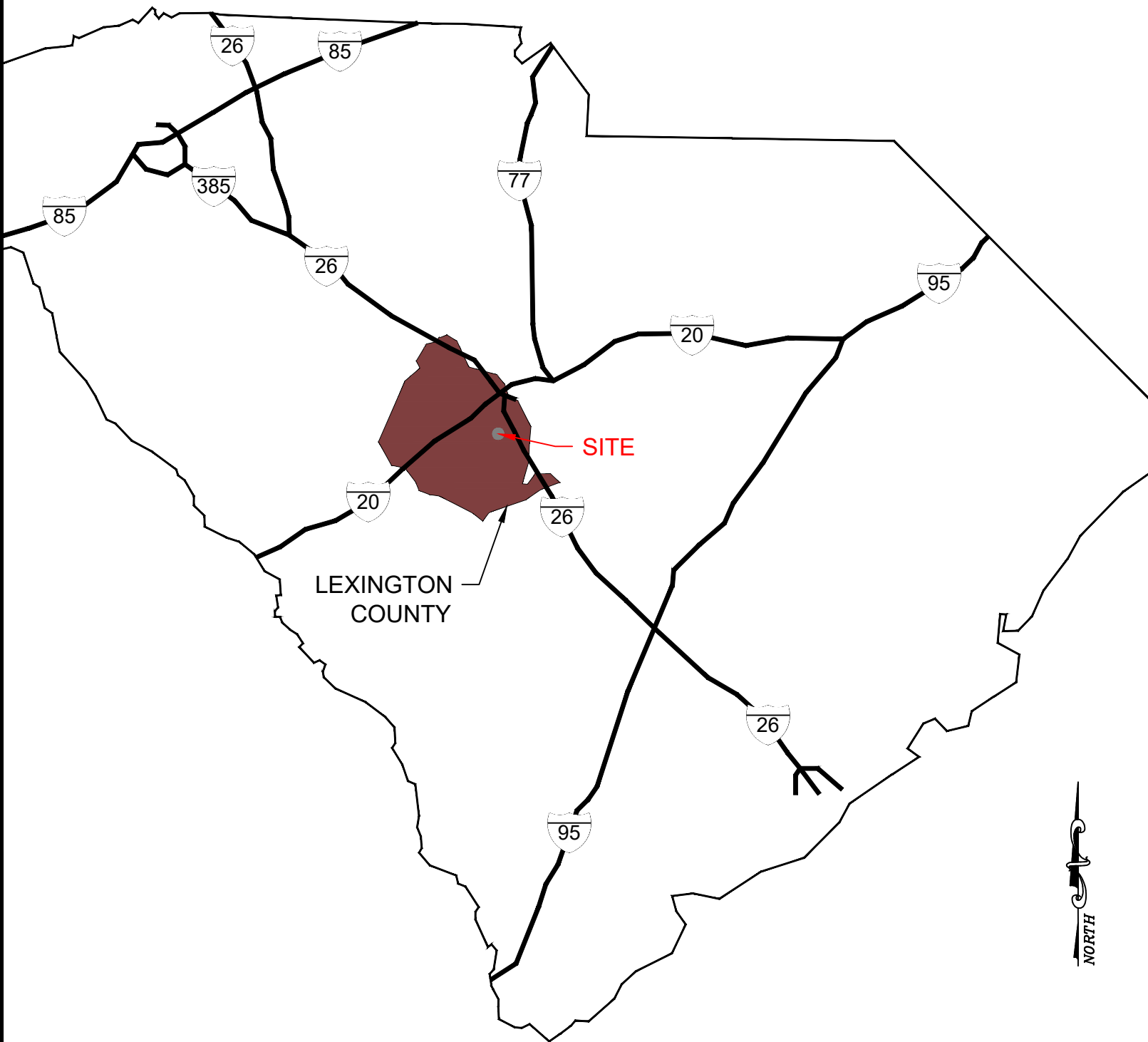
Location Map

County of Lexington  
Scale: Not to Scale

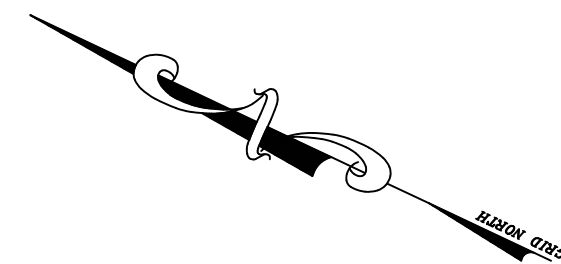


Location Map  
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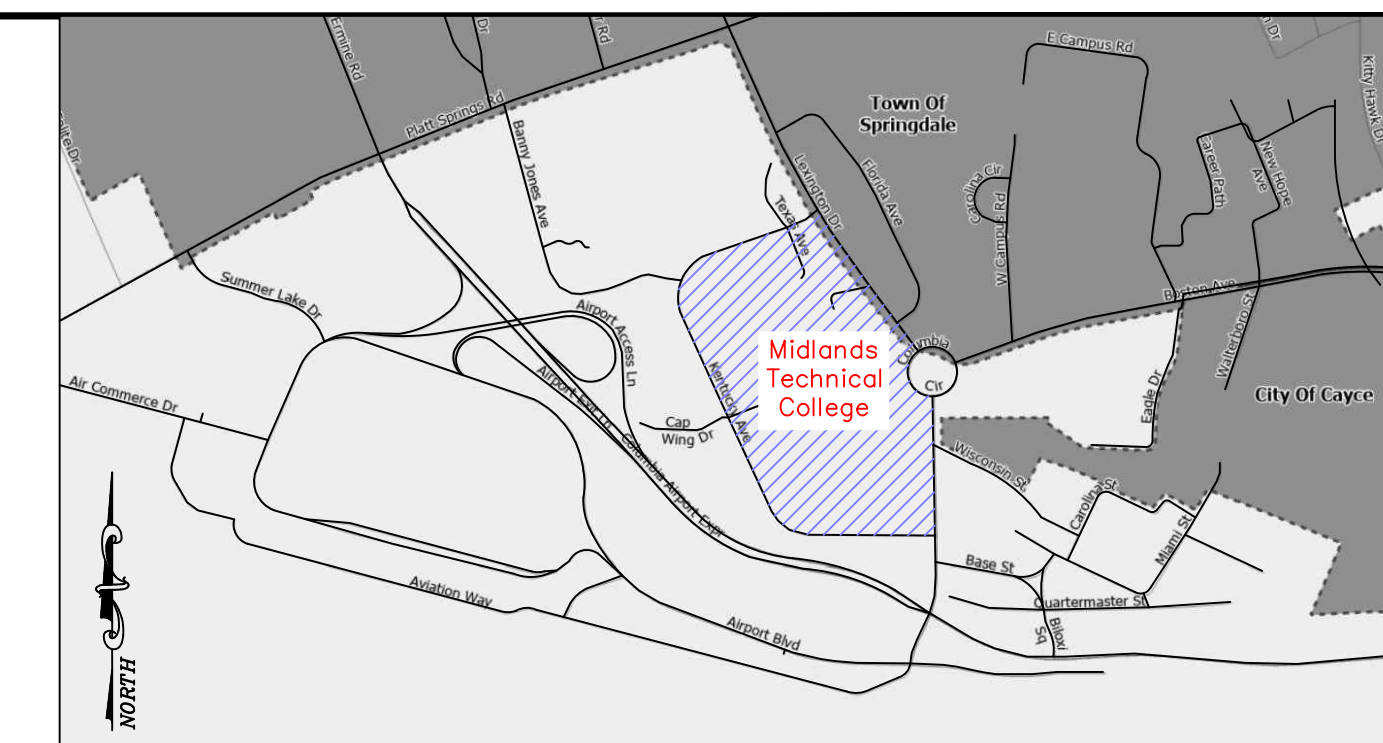
State of South Carolina  
Scale: 1" = 30 Miles



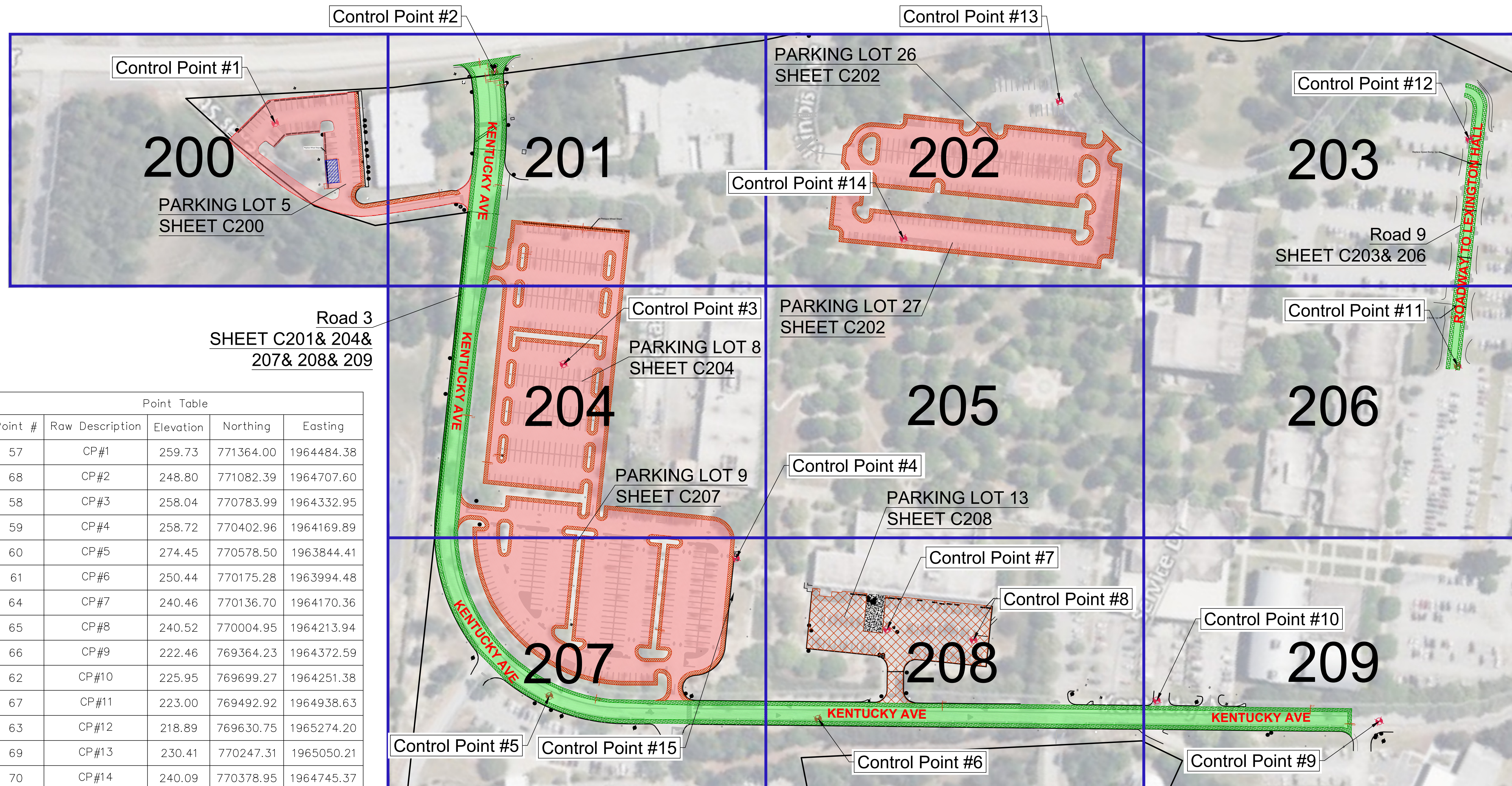




MIDLANDS TECHNICAL COLLEGE - ROADS		MIDLANDS TECHNICAL COLLEGE - PARKING LOTS	
	MILL AND RE-PAVE (3863 SY)		MILL AND RE-PAVE (8357 SY)
	OVERLAY (7342 SY)		OVERLAY (25195 SY)
			FULL DEPTH RECLAMATION (78 SY)
Total (11,205 SY) 25%		Total (33,630 SY) 75%	



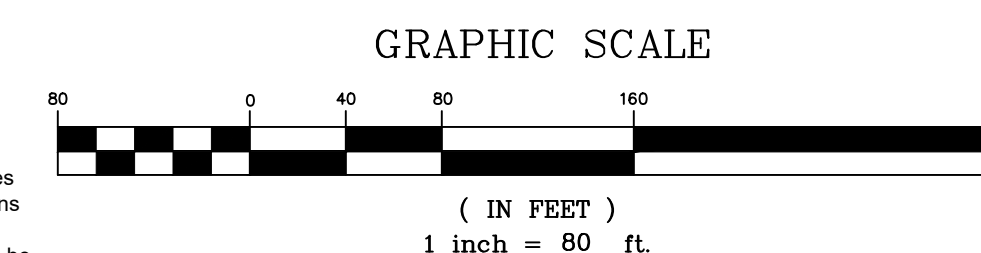
Location Map  
Not to Scale



Point Table				
Point #	Raw Description	Elevation	Northing	Easting
57	CP#1	259.73	771364.00	1964484.38
68	CP#2	248.80	771082.39	1964707.60
58	CP#3	258.04	770783.99	1964332.95
59	CP#4	258.72	770402.96	1964169.89
60	CP#5	274.45	770578.50	1963844.41
61	CP#6	250.44	770175.28	1963994.48
64	CP#7	240.46	770136.70	1964170.36
65	CP#8	240.52	770004.95	1964213.94
66	CP#9	222.46	769364.23	1964372.59
62	CP#10	225.95	769699.27	1964251.38
67	CP#11	223.00	769492.92	1964938.63
63	CP#12	218.89	769630.75	1965274.20
69	CP#13	230.41	770247.31	1965050.21
70	CP#14	240.09	770378.95	1964745.37
71	CP#15	259.99	770382.23	1964119.13



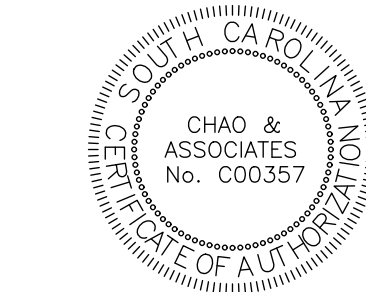
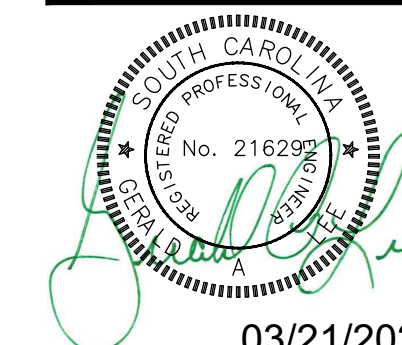
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PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
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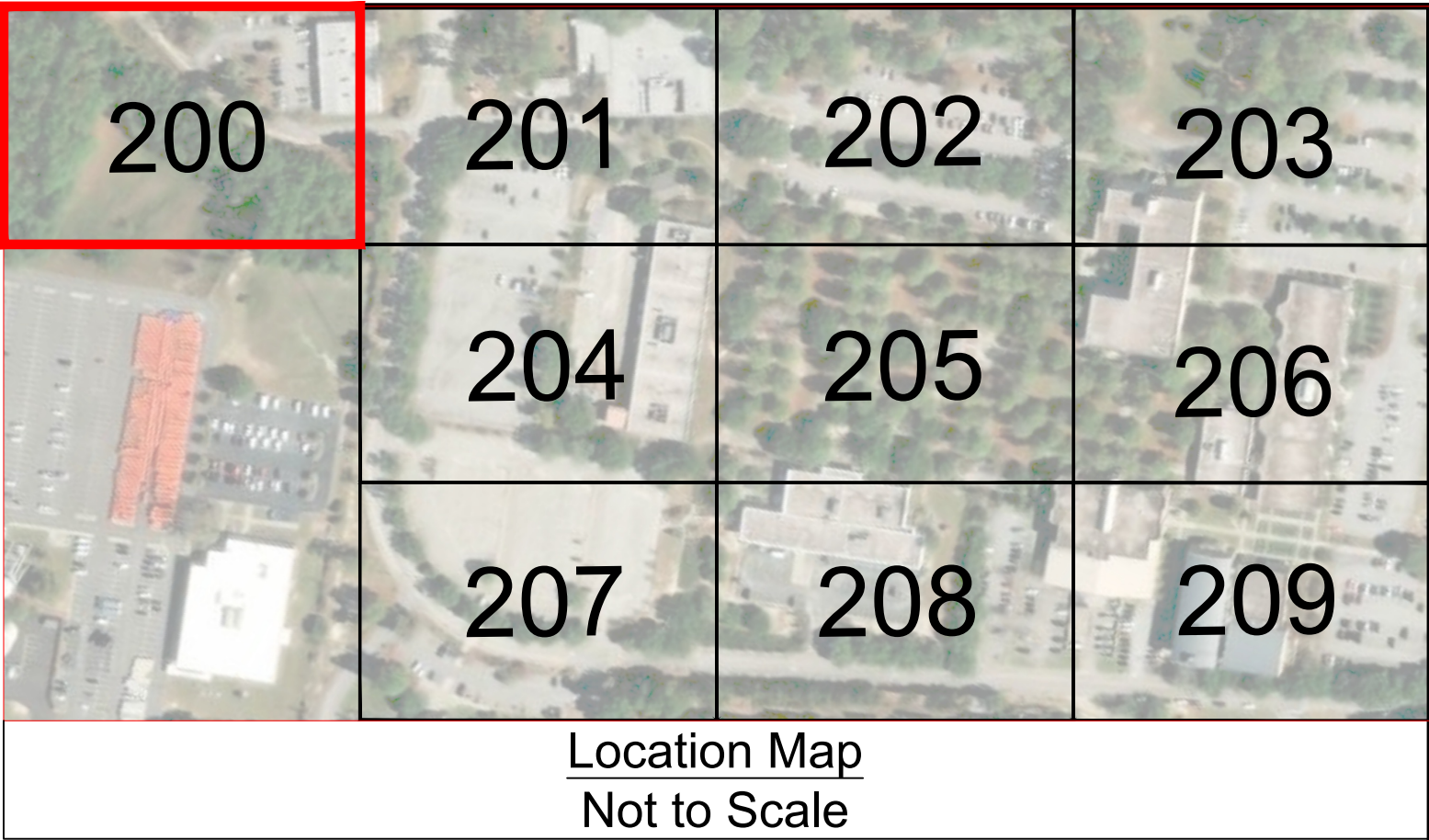
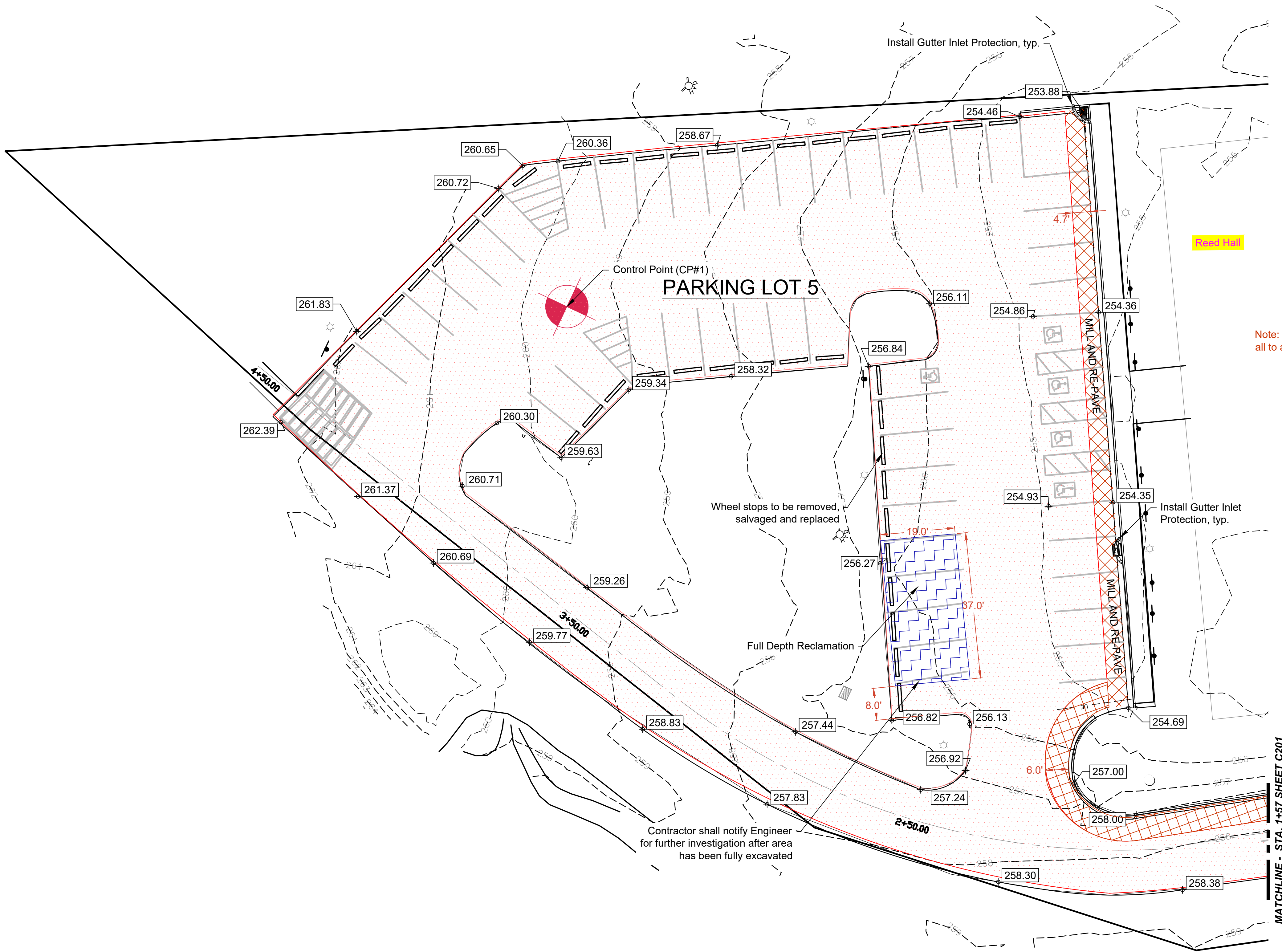


Overall Repair Plan  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC	Checked: GAL
Revised:	
File: H59-6202-PD.dwg	Project No.: 398545-24

C100  
Sheet Number  
March 21, 2025  
Date





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LEGEND			
	Fire hydrant		Curb & gutter
	Water valve		Junction box (JB)
	Water meter		Drop inlet (DI)
	Gas valve		Hood & grate inlet (H&G)
	Sanitary sewer manhole		Yard inlet (YI)
	Cleanout (CO)		Storm drain pipe
	Natural gas line		Concrete sidewalk
	Sanitary sewer line		Power pole & guy
	Water line		Light pole
	Fenceline		Electrical box
	Overhead electric		Sign
	Underground telephone		Limits of disturbance
	Underground fiber optic		
	Underground cable TV		
	Telephone pedestal		

	MILL AND RE-PAVE
	OVERLAY
	MILL AND RE-PAVE
	OVERLAY
	FULL DEPTH RECLAMATION

Summary of Total Asphalt Pavement Repair	
Repair Methods	Repair Area (S.Y.)
Mill and Re-Pave	12,220
Overlay	32,535
Full Depth Repair	80

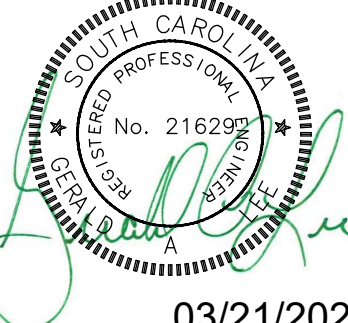
PROJECT: DEFERRED MAINTENANCE -  
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Existing Cond. & Repair Plan  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

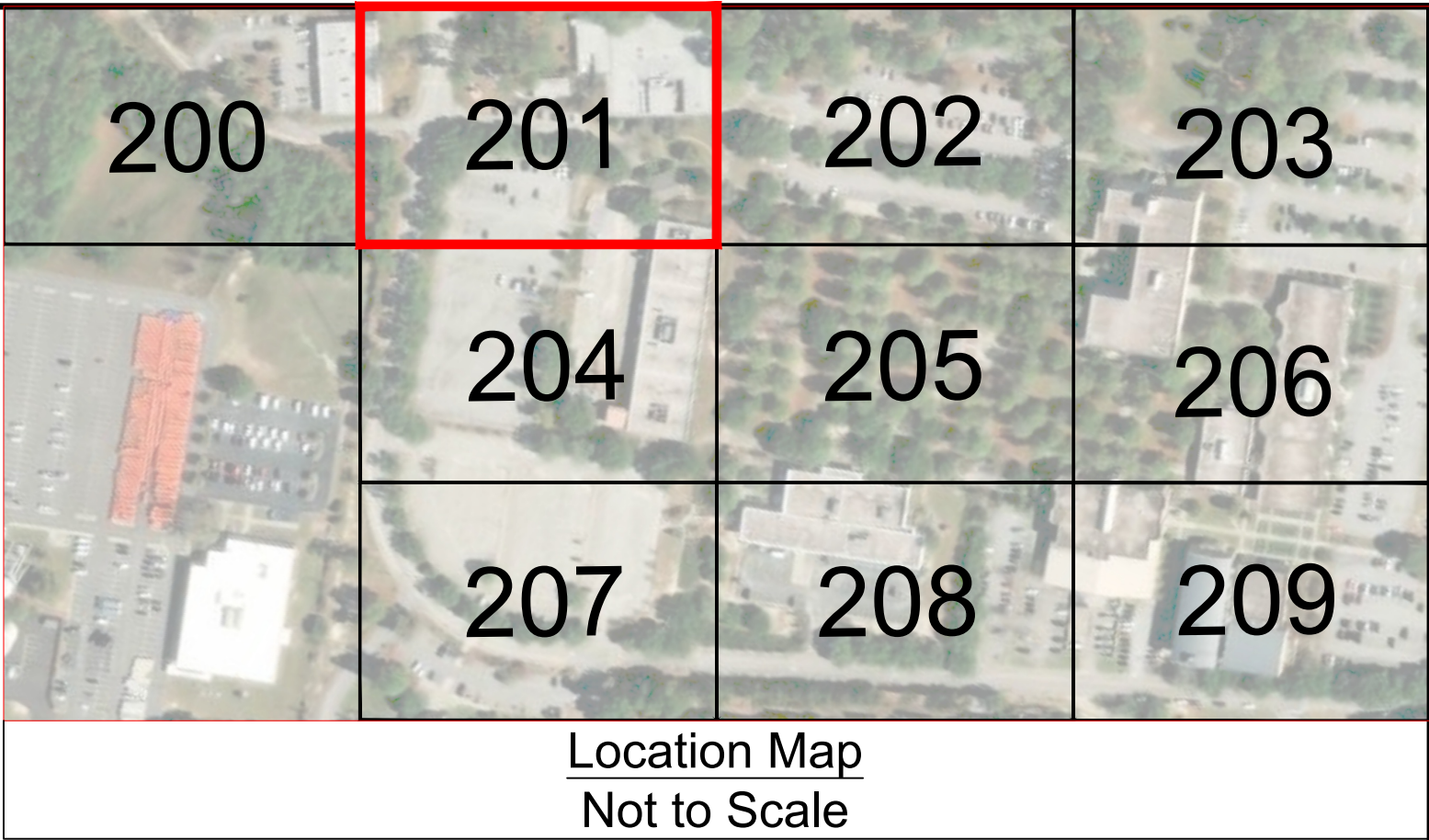
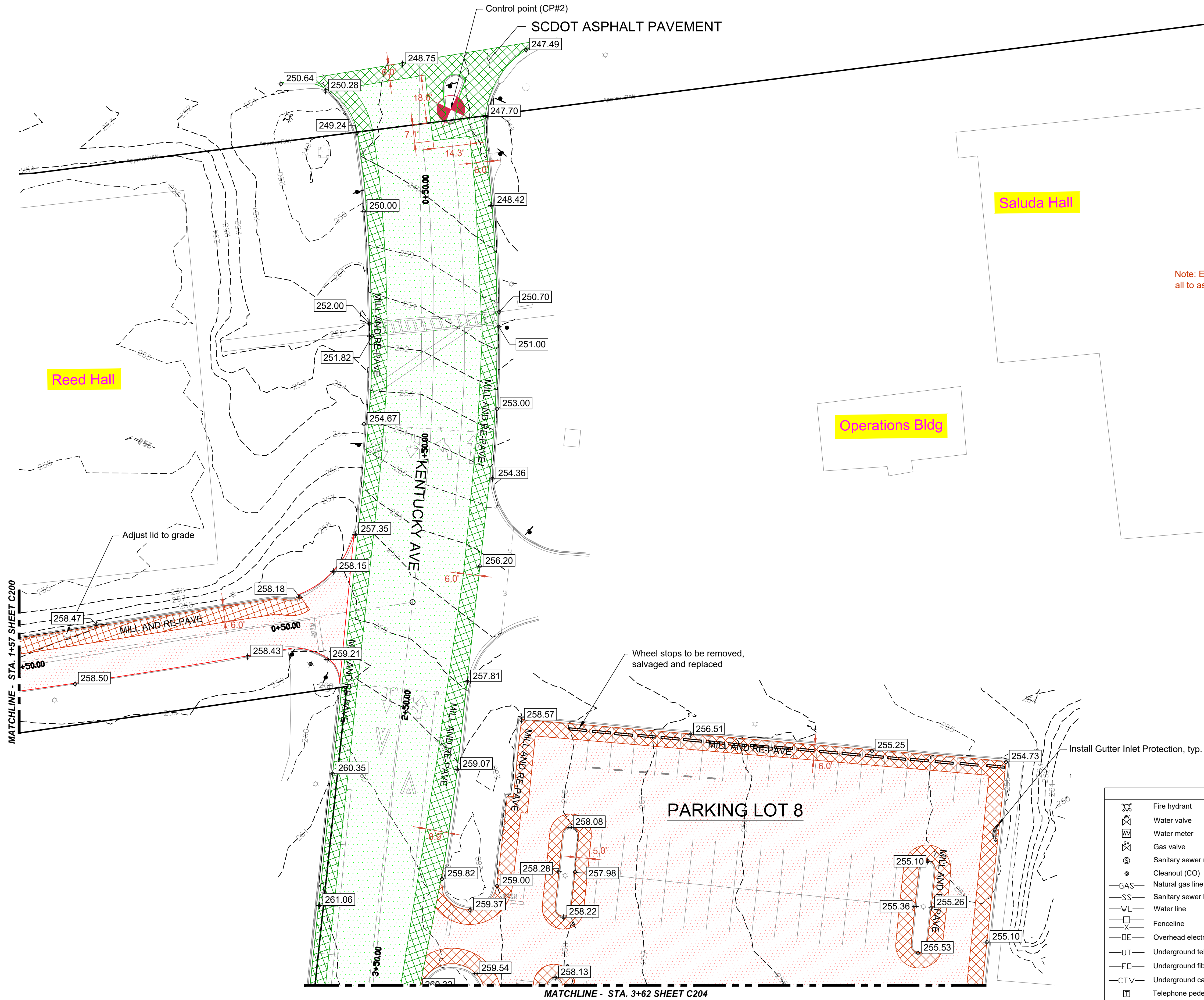
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Revised:

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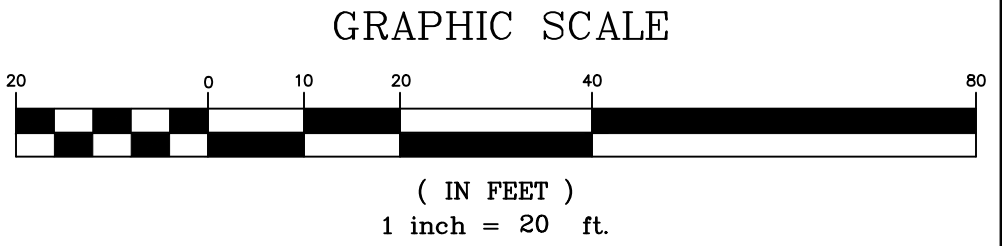
File: H59-6202-PD.dwg  
Project No.: 398545-24

C200  
Sheet Number  
March 21, 2025  
Date





Note: Elevation are all to asphalt surface



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	Water valve	OVERLAY
	Water meter	
	Gas valve	MILL AND RE-PAVE
	Sanitary sewer manhole	OVERLAY
	Cleanout (CO)	
	Natural gas line	
	Sanitary sewer line	
	Water line	
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	Light pole	
	Electrical box	
	Sign	
	Limits of disturbance	

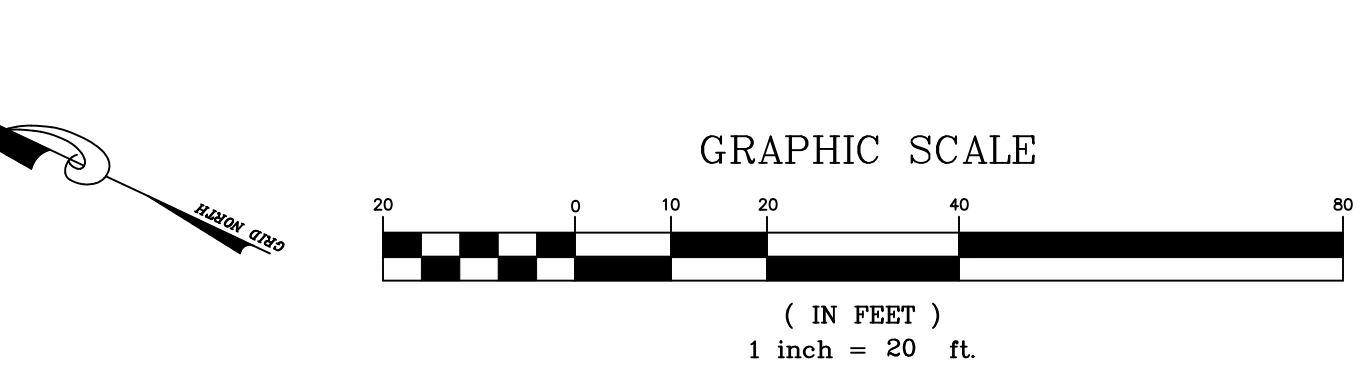
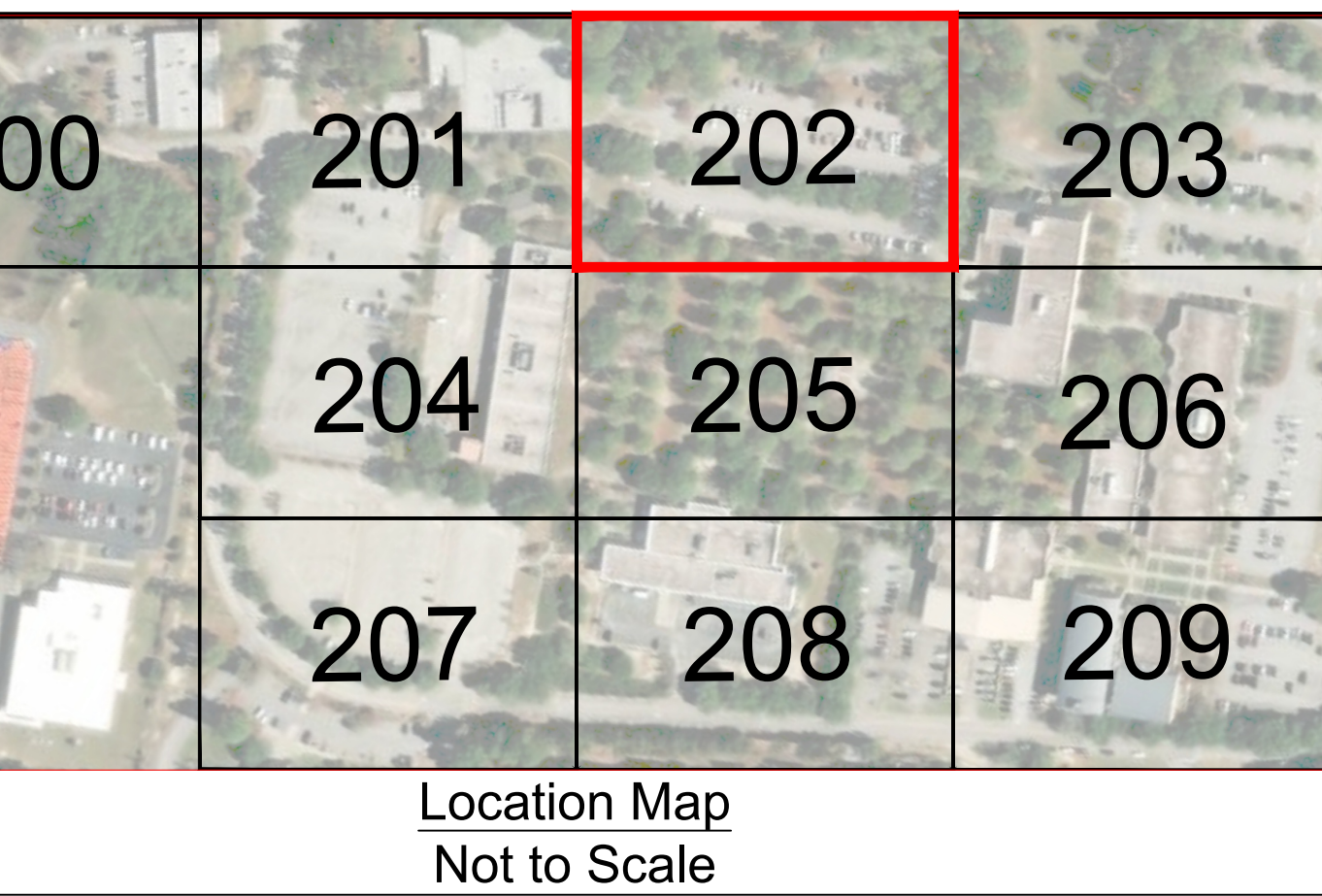
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PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
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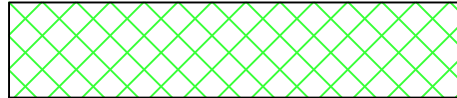
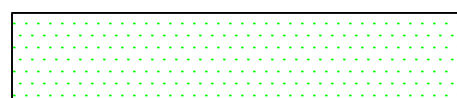
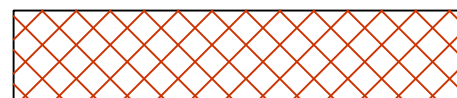

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	MILL AND RE-PAVE
	OVERLAY
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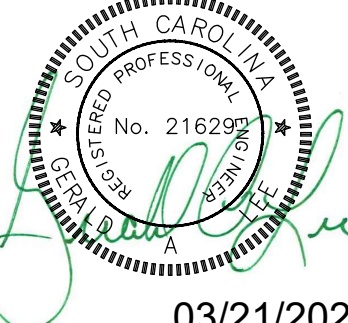
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& LAND SURVEYORS

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**Existing Cond. & Repair Plan**  
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Revised:	
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C202

Sheet Number

March 21, 2025

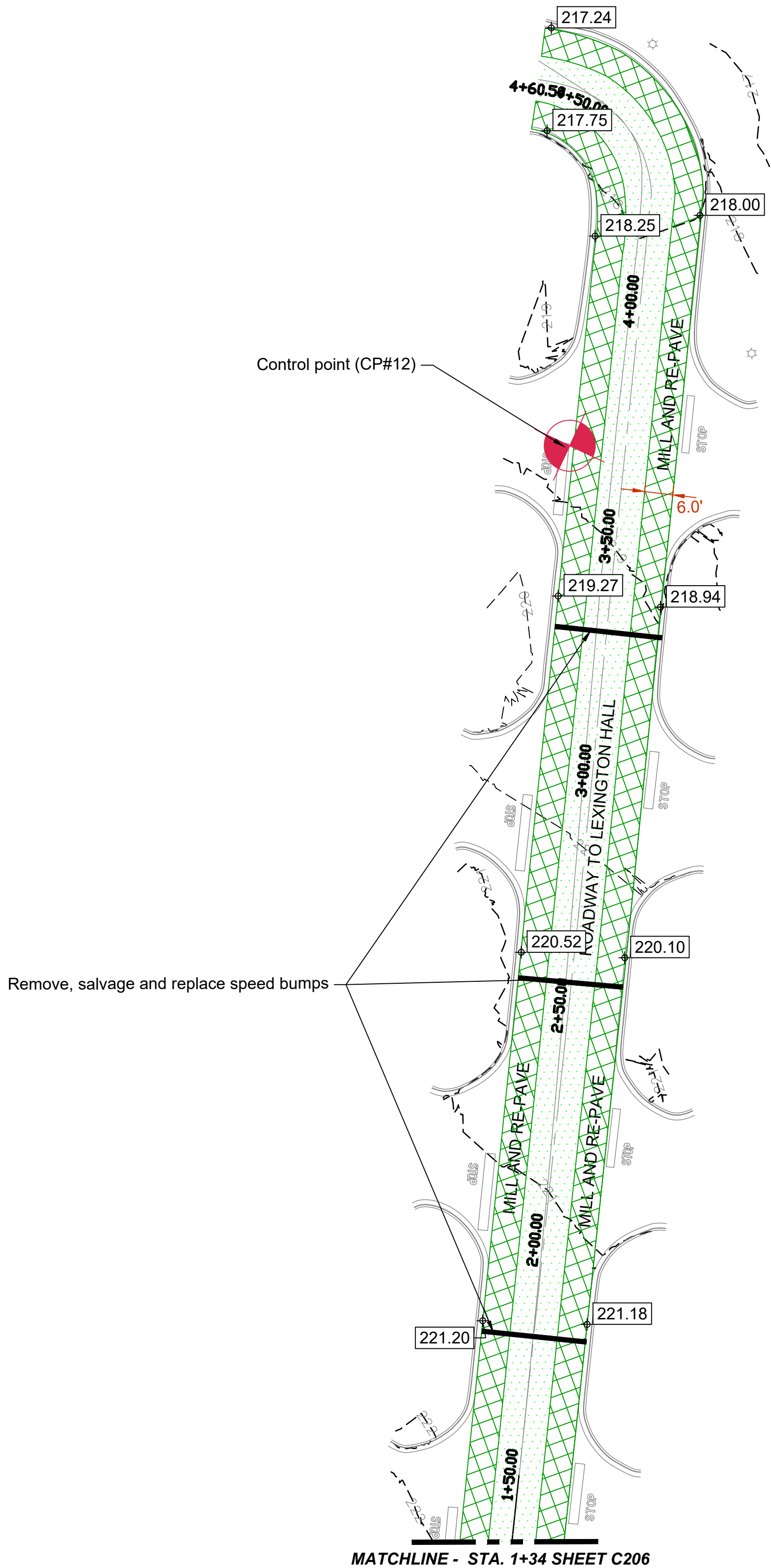
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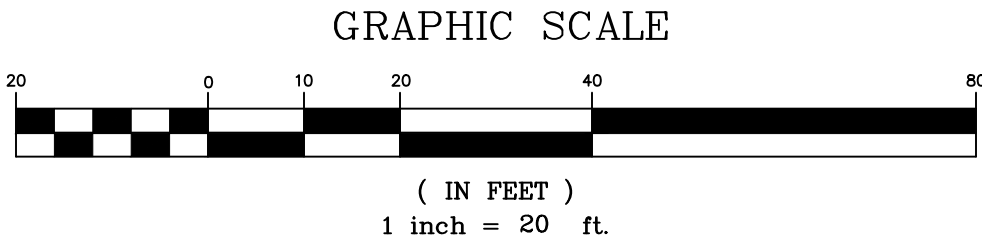
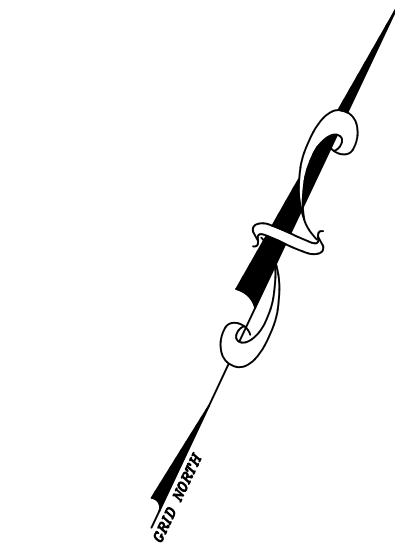




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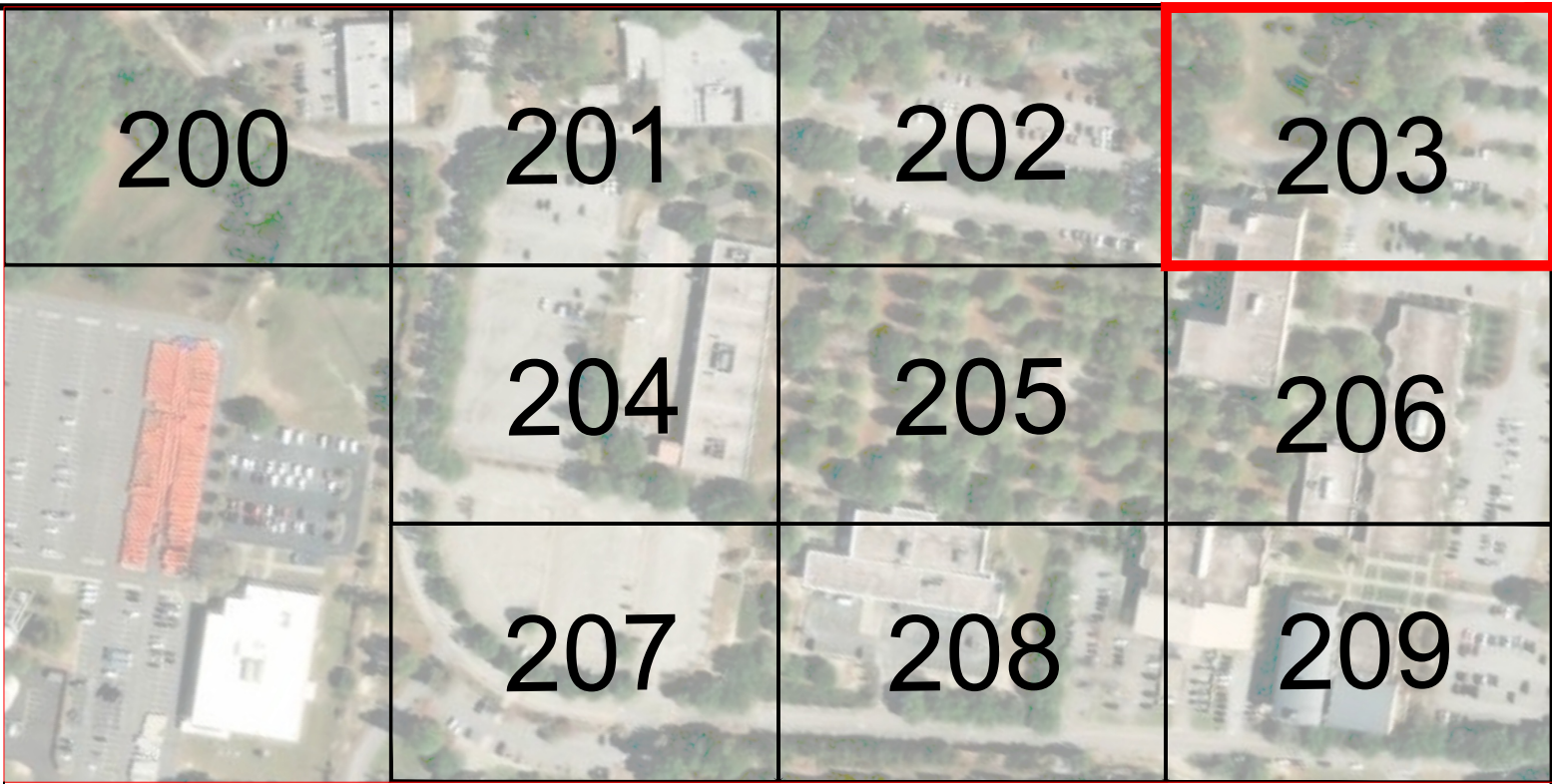
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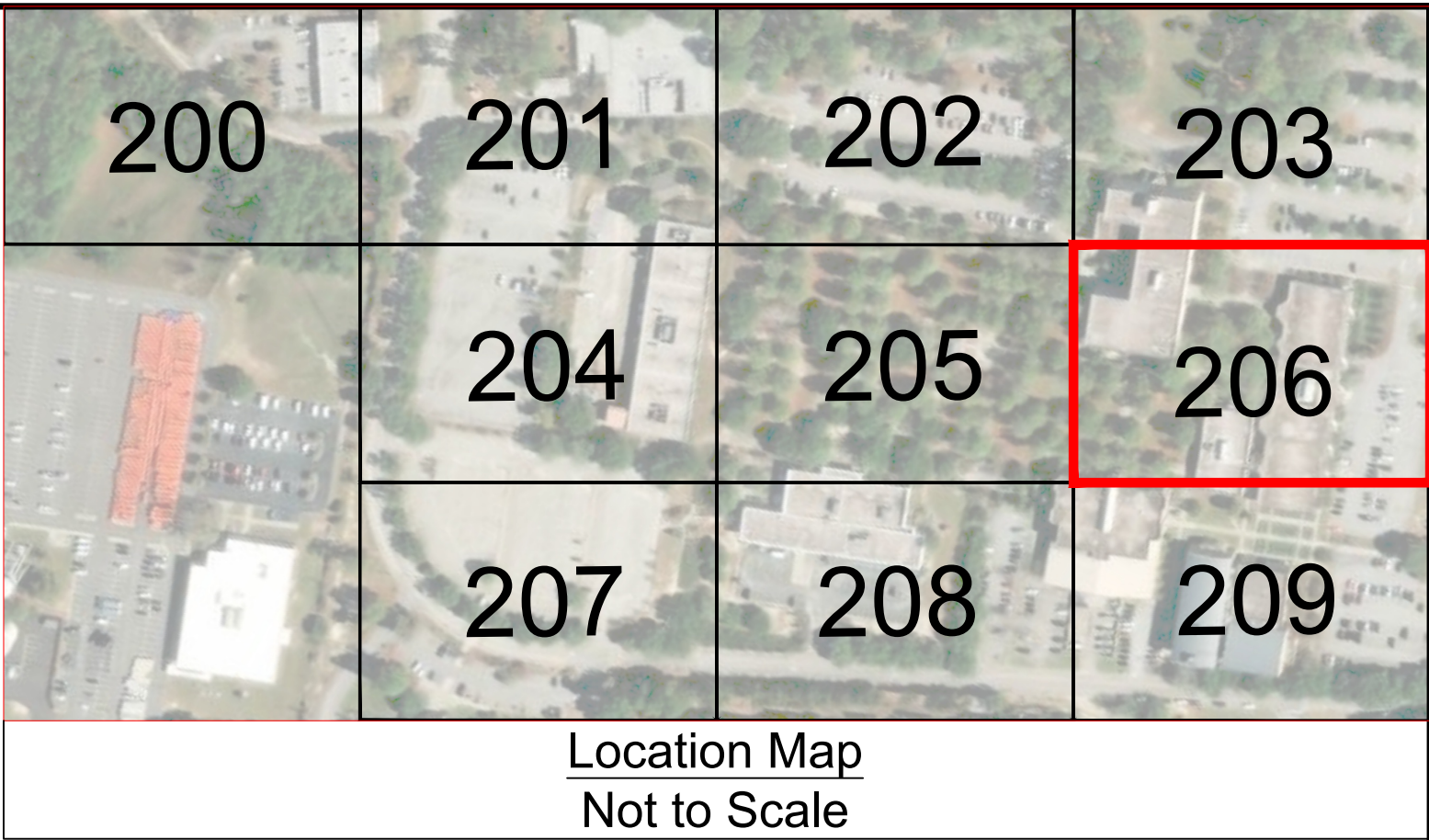
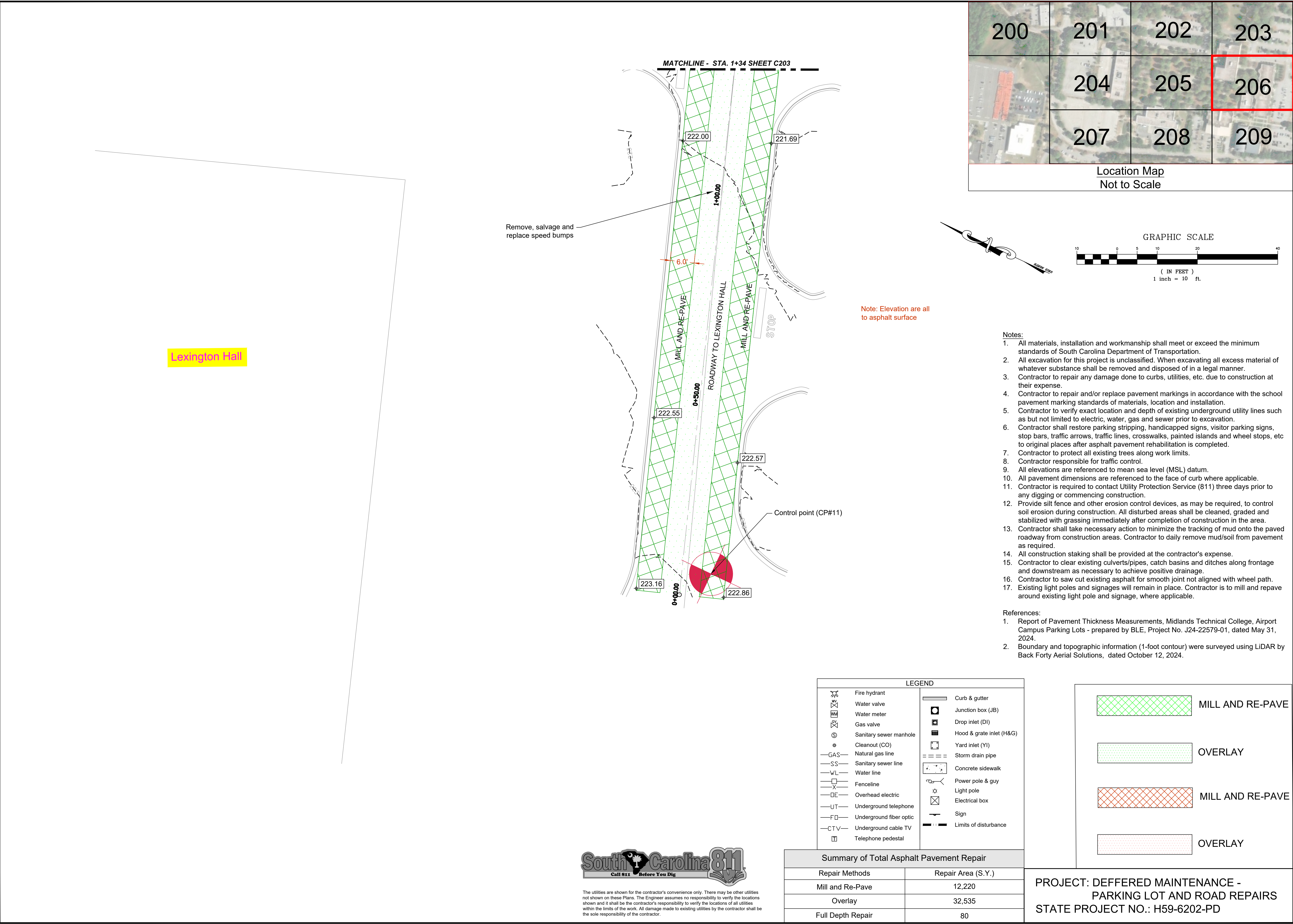
File: H59-6202-PD.dwg Project No.: 398545-24

C203  
Sheet Number  
March 21, 2025  
Date









CHAO & ASSOCIATES, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS

Chao & Associates, Inc.

Civil - Structural - Survey

7 Clusters Court

Columbia, SC 29210

Voice: (803) 772-8420

Fax: (803) 772-9120

Email: [consult@chaoinc.com](mailto:consult@chaoinc.com)

Existing Cond. & Repair Plan  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC

Checked: GAL

Revised:

File: H59-6202-PD.dwg

Project No.: 398545-24

C206

Sheet Number

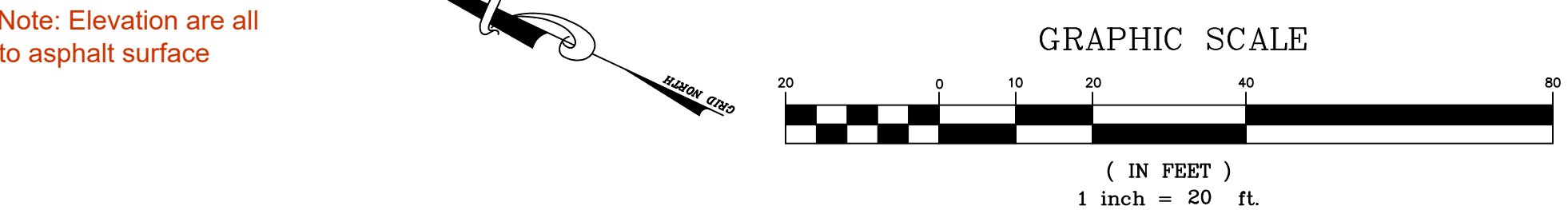
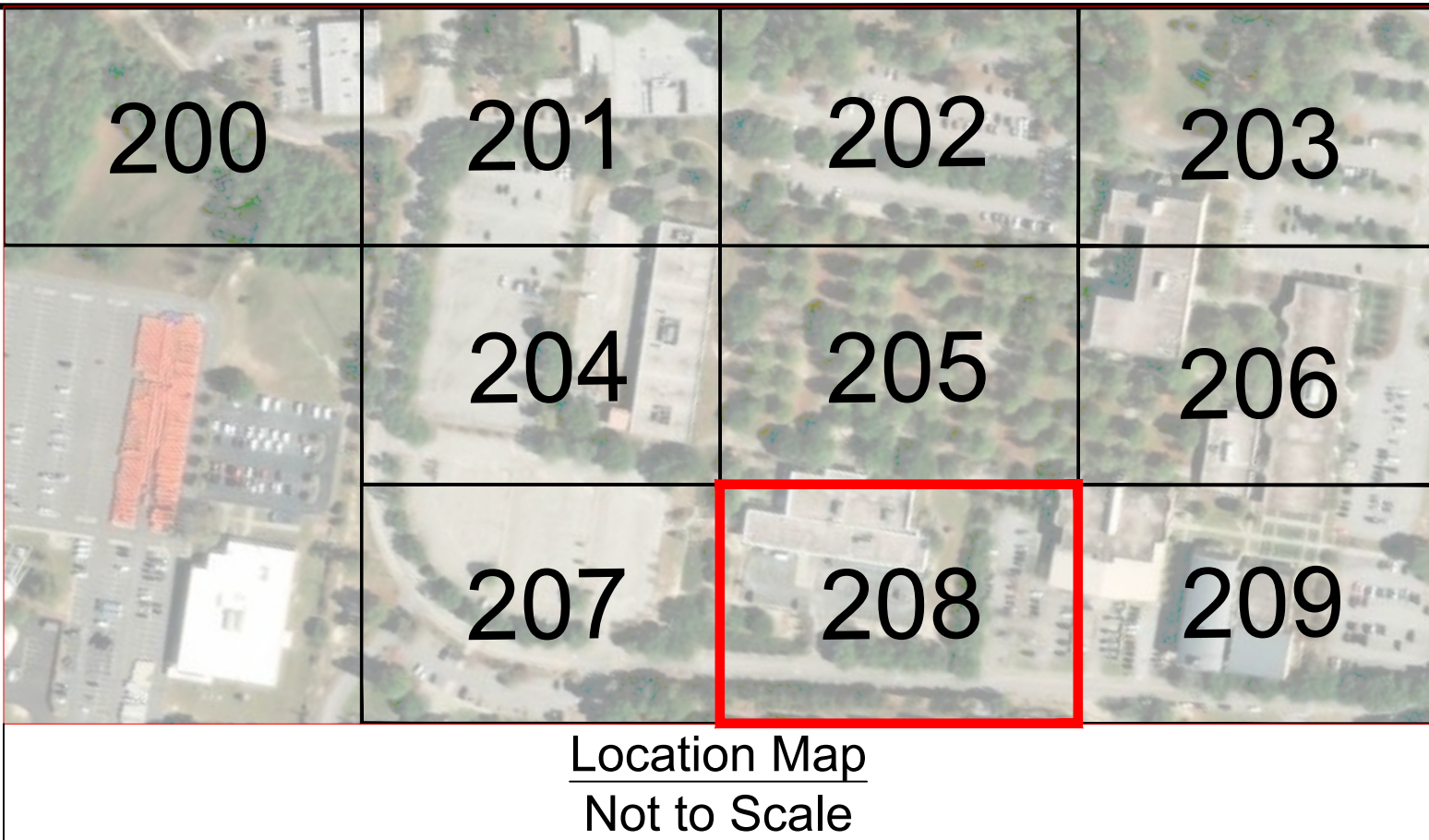
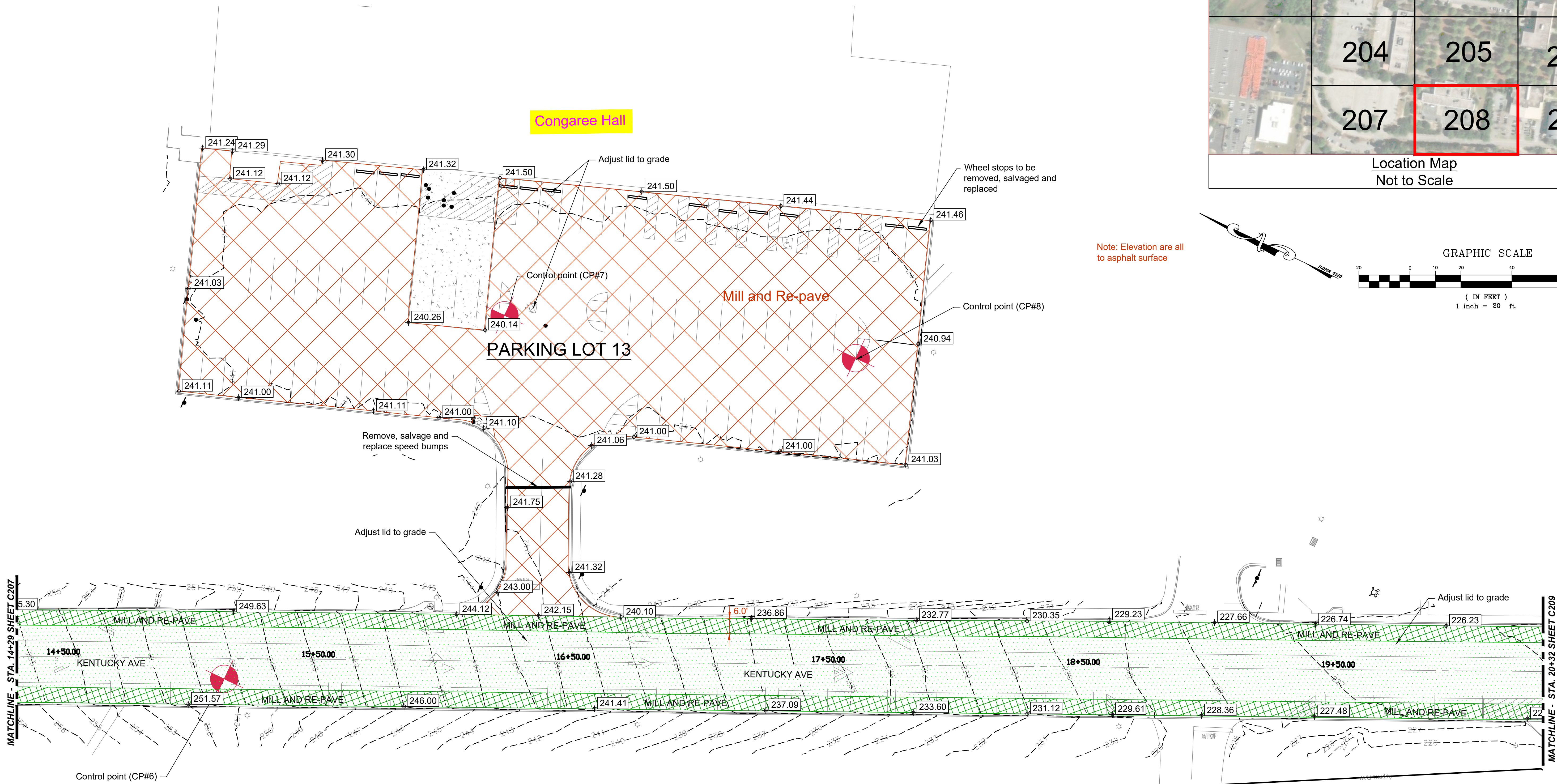
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  7. Contractor to protect all existing trees along work limits.
  8. Contractor responsible for traffic control.
  9. All elevations are referenced to mean sea level (MSL) datum.
  10. All pavement dimensions are referenced to the face of curb where applicable.
  11. Contractor is required to contact Utility Protection Service (811) three days prior to any digging or commencing construction.
  12. Provide silt fence and other erosion control devices, as may be required, to control soil erosion during construction. All disturbed areas shall be cleaned, graded and stabilized with grassing immediately after completion of construction in the area.
  13. Contractor shall take necessary action to minimize the tracking of mud onto the paved roadway from construction areas. Contractor to daily remove mud/soil from pavement as required.
  14. All construction staking shall be provided at the contractor's expense.
  15. Contractor to clear existing culverts/pipes, catch basins and ditches along frontage and downstream as necessary to achieve positive drainage.
  16. Contractor to saw cut existing asphalt for smooth joint not aligned with wheel path.
  17. Existing light poles and signages will remain in place. Contractor is to mill and repave around existing light pole and signage, where applicable.
- References:**
1. Report of Pavement Thickness Measurements, Midlands Technical College, Airport Campus Parking Lots - prepared by BLE, Project No. J24-22579-01, dated May 31, 2024.
  2. Boundary and topographic information (1-foot contour) were surveyed using LIDAR by Back Forty Aerial Solutions, dated October 12, 2024.



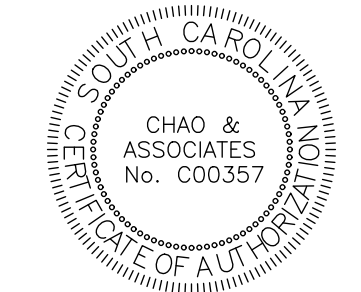
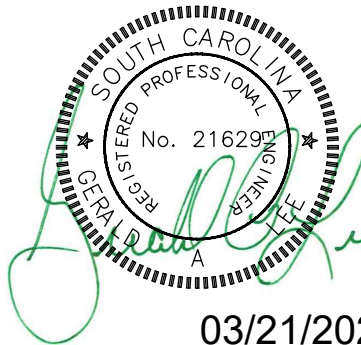
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Water line	Light pole
Fenceline	Electrical box
Overhead electric	Sign
Underground telephone	Limits of disturbance
Underground fiber optic	
Underground cable TV	
Telephone pedestal	

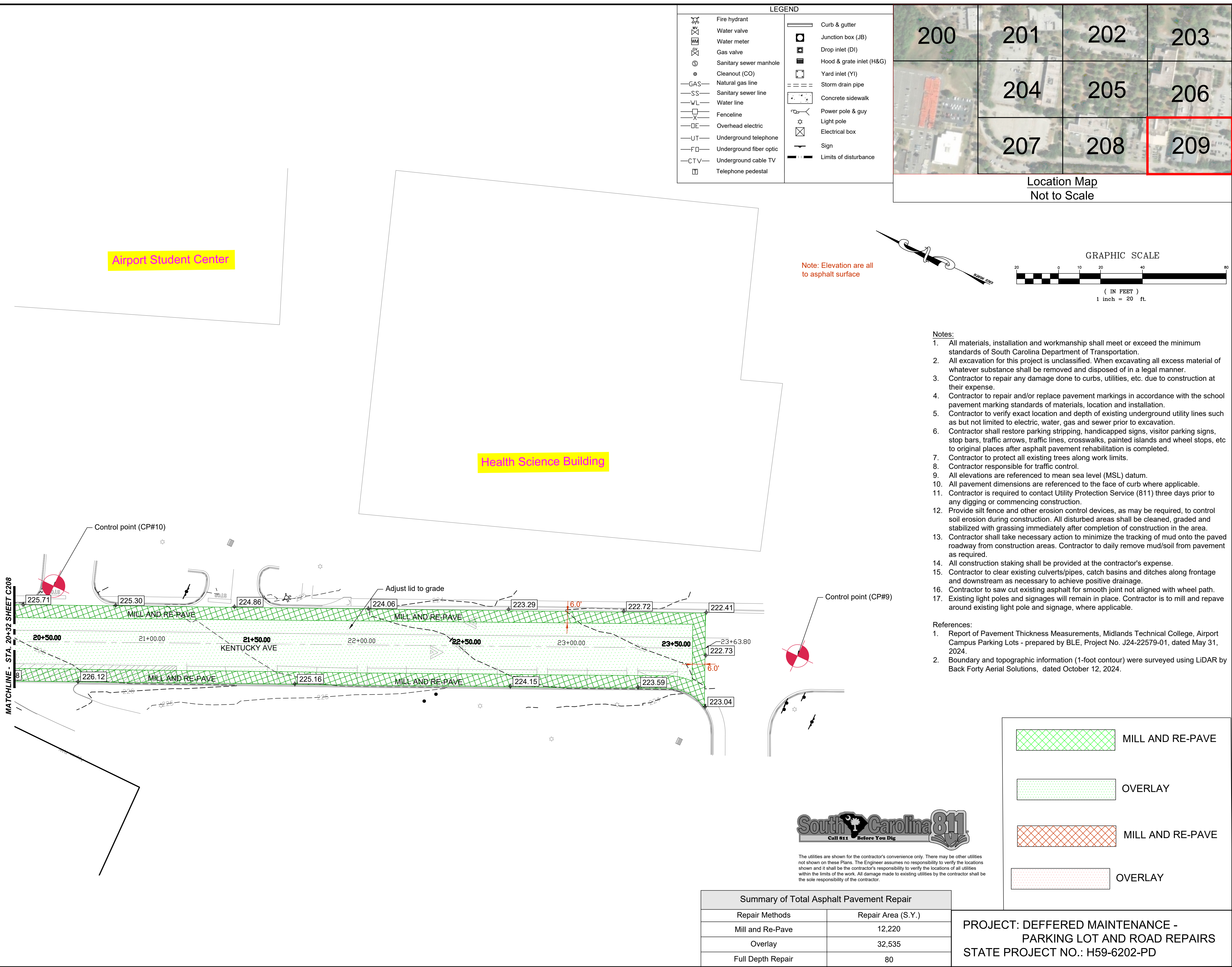
MILL AND RE-PAVE	MILL AND RE-PAVE
OVERLAY	OVERLAY
MILL AND RE-PAVE	MILL AND RE-PAVE
OVERLAY	OVERLAY

Summary of Total Asphalt Pavement Repair	
Repair Methods	Repair Area (S.Y.)
Mill and Re-Pave	12,220
Overlay	32,535
Full Depth Repair	80

PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD







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03/21/2025

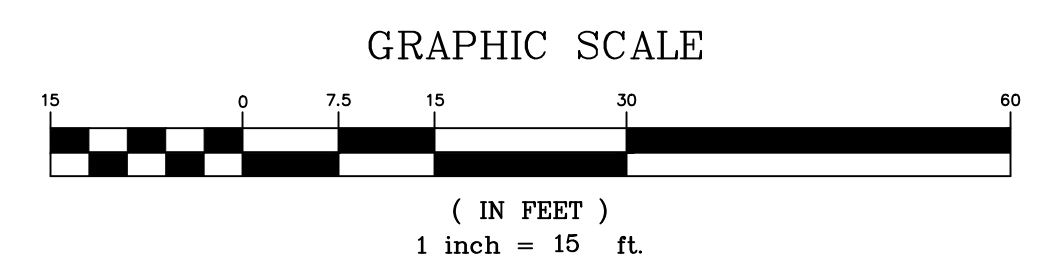
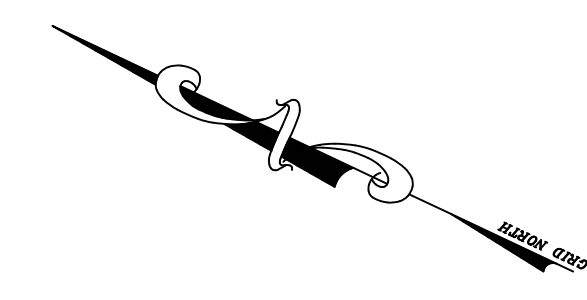
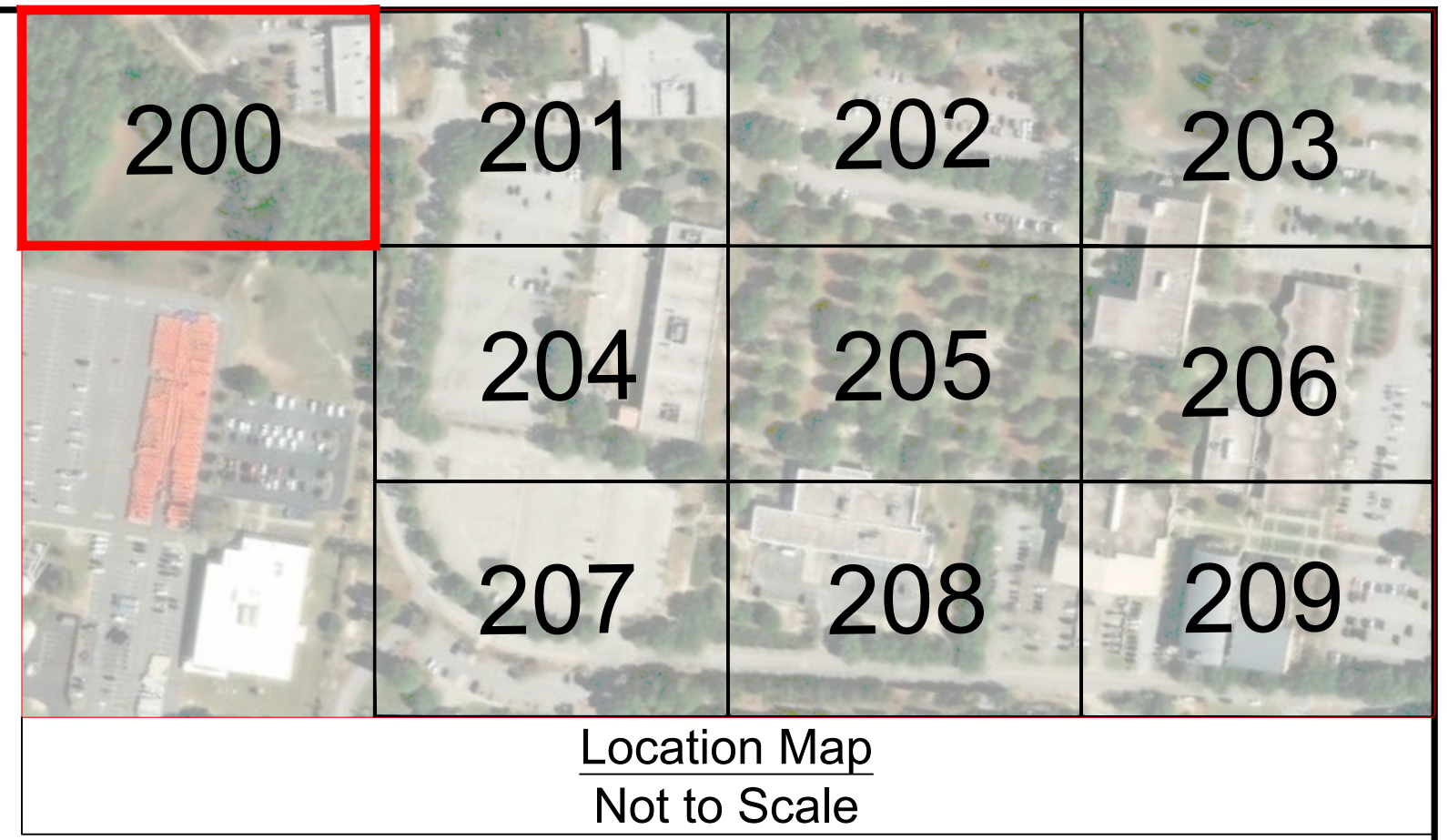
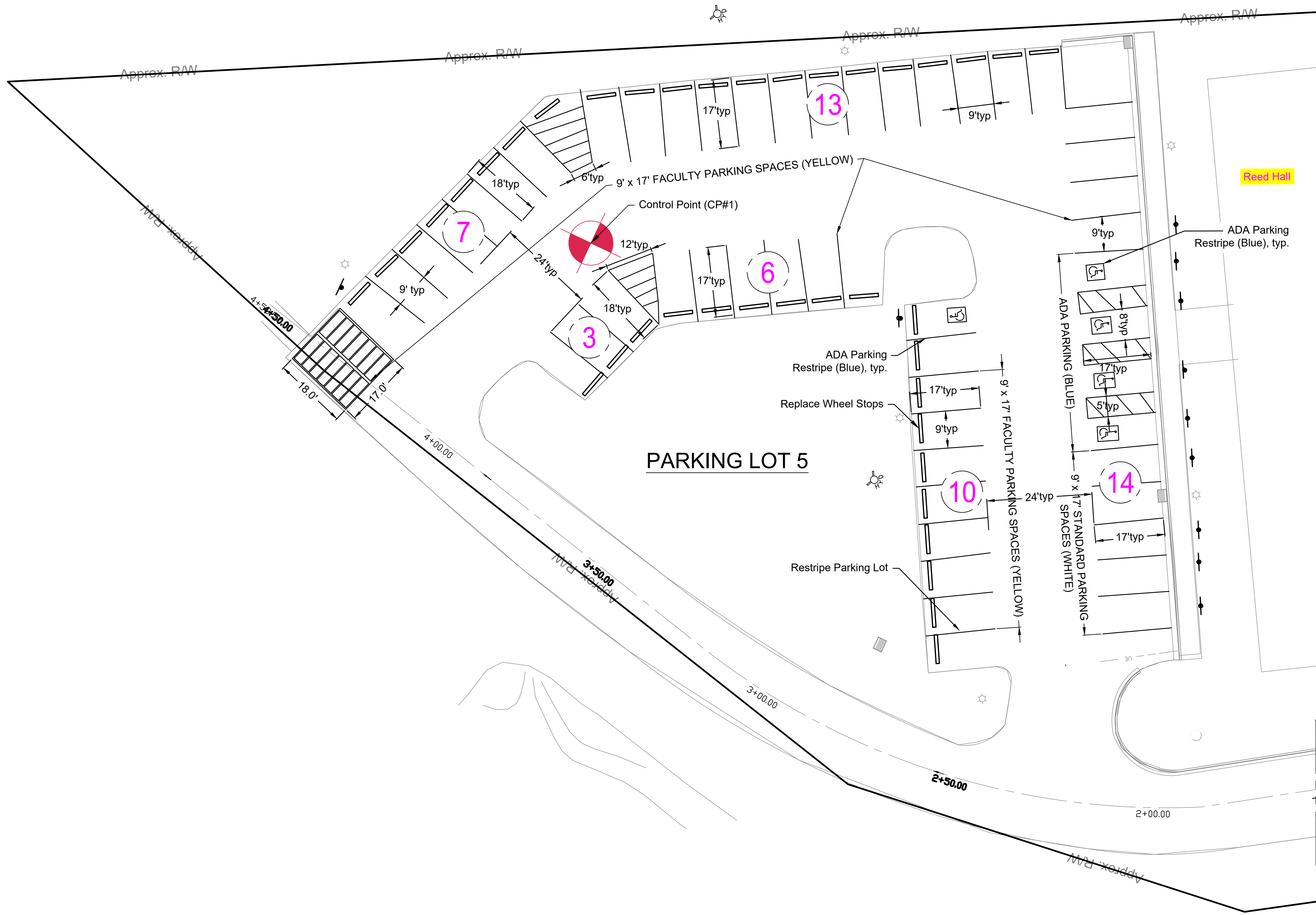
CHAO & ASSOCIATES  
No. C00357  
STATE OF SOUTH CAROLINA  
REGISTERED PROFESSIONAL ENGINEER

**Existing Cond. & Repair Plan**  
**Deferred Maintenance**  
**- Parking and Road Repairs**  
**Prepared For:**  
**Midlands Tech Airport Campus**

Drawn: EYC    Checked: GAL  
Revised:  
Project No.: 398545-24  
File: H59-6202-PD.dwg

**C209**  
Sheet Number  
March 21, 2025  
Date





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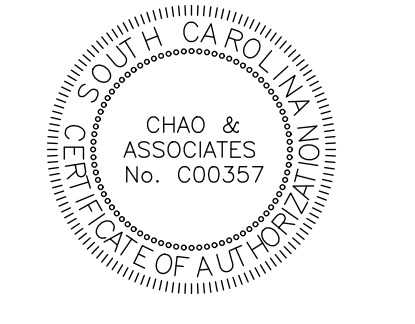
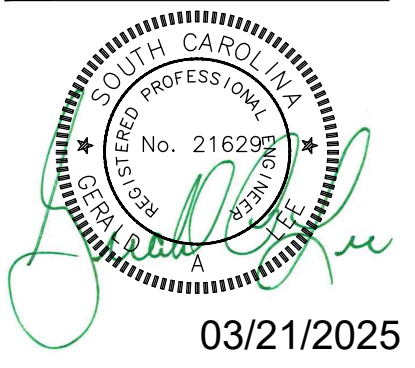
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	Overhead electric		Sign
	Underground telephone		Limits of disturbance
	Underground fiber optic		
	Underground cable TV		
	Telephone pedestal		

PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD



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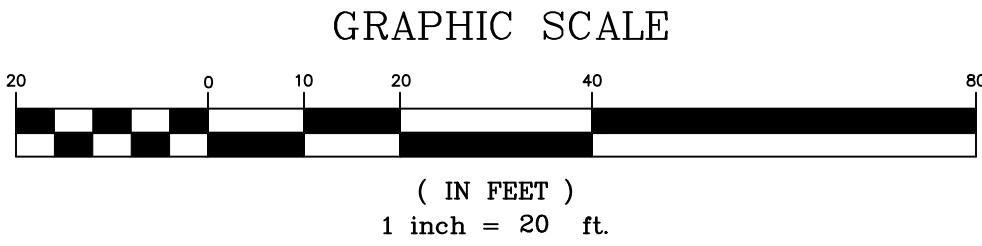
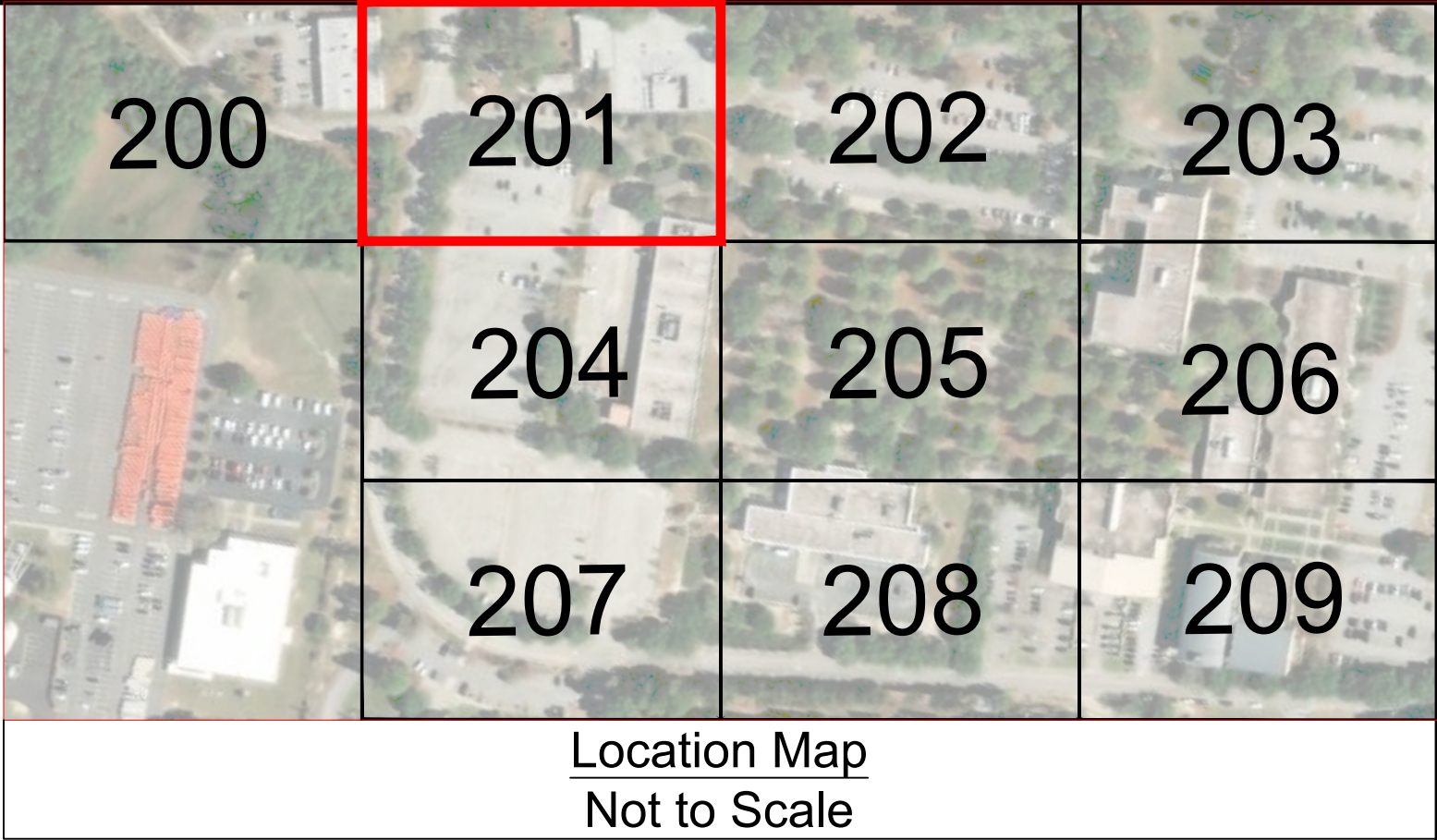
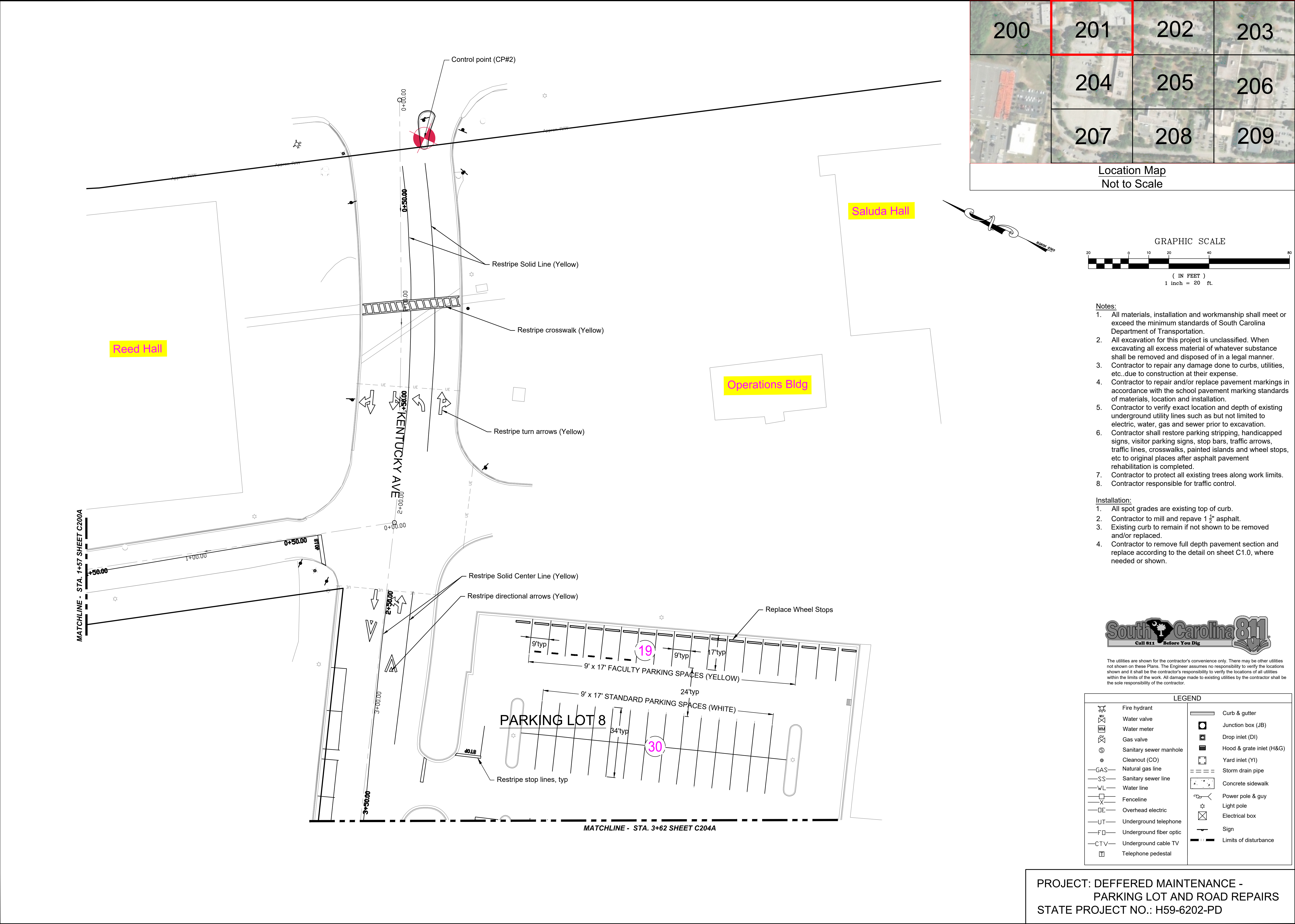


**Striping Plan**  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC      Checked: GAL  
Revised:  
File: H59-6202-PD.dwg      Project No.: 398545-24

**C200A**  
Sheet Number  
March 21, 2025  
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PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD

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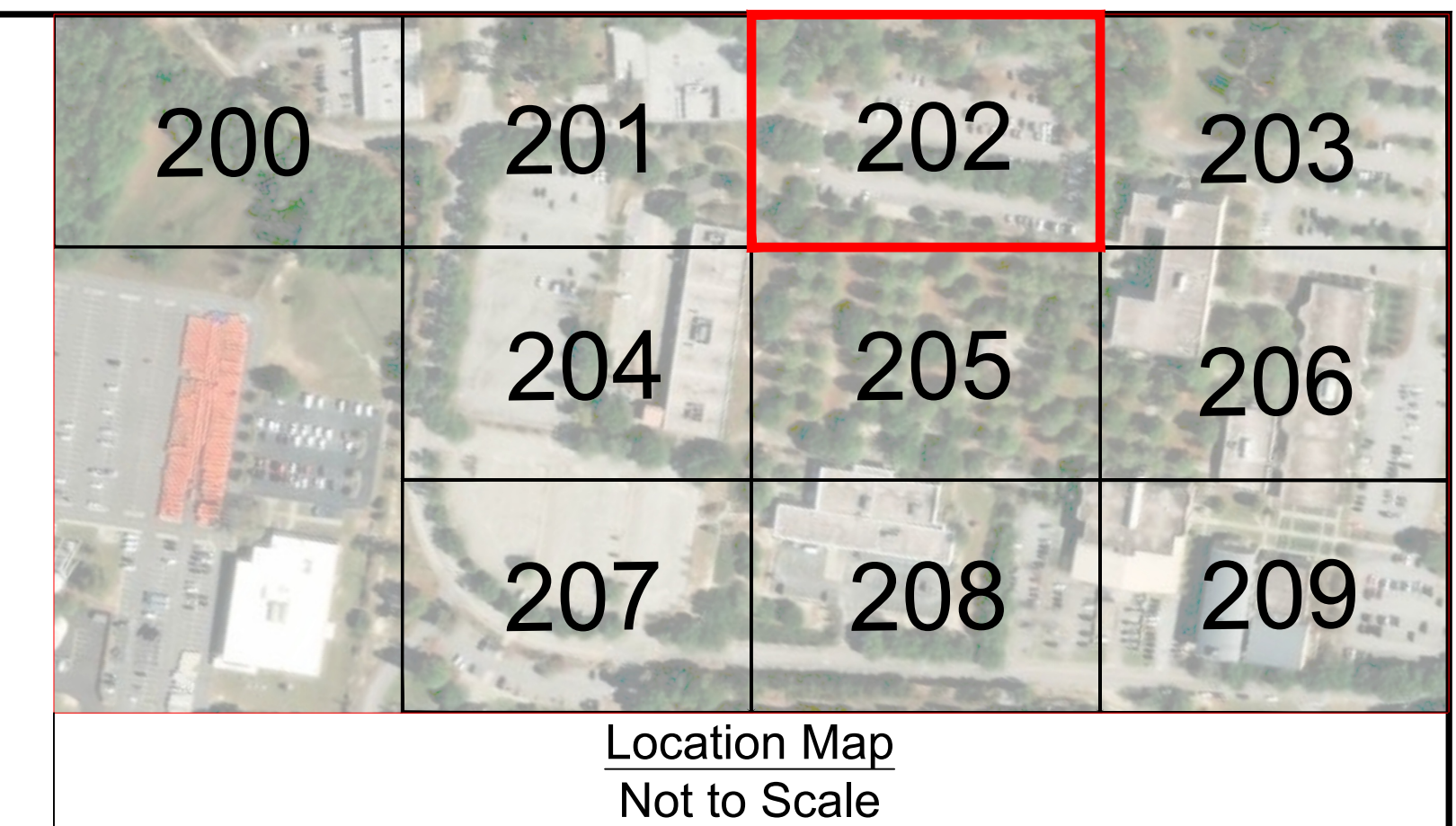
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**Striping Plan**  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

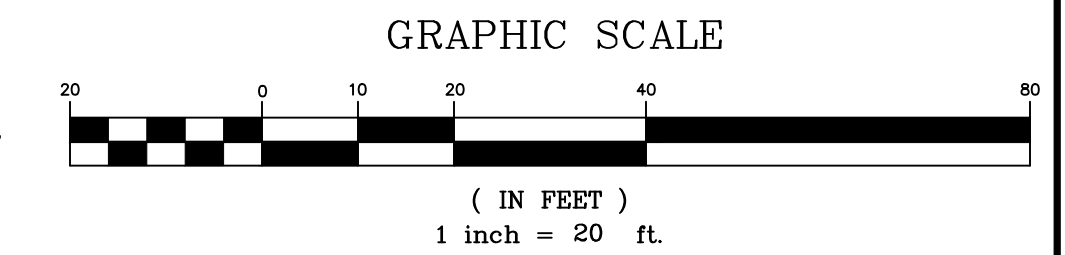
Drawn: EYC      Checked: GAL  
Revised:  
Project No.: 398545-24  
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**C201A**  
Sheet Number  
March 21, 2025  
Date





Location Map  
Not to Scale



Notes:









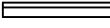




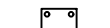
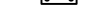




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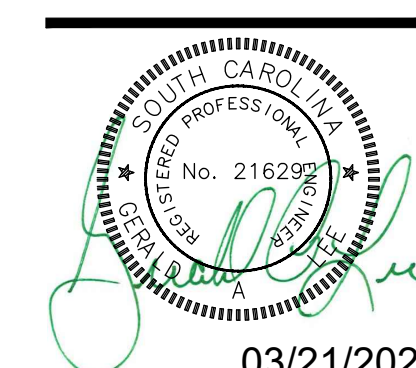
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	Gas valve
	Sanitary sewer manhole
	Cleanout (CO)
—GAS—	Natural gas line
—SS—	Sanitary sewer line
—WL—	Water line
	Fence line
—X—	Overhead electric
—DE—	Underground electric
—UT—	Underground telephone
—F□—	Underground fiber optic
—CTV—	Underground cable TV
	Telephone pedestal
	Curb & gutter
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== == ==	Storm drain pipe
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	Light pole
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	Sign
	Limits of disturbance

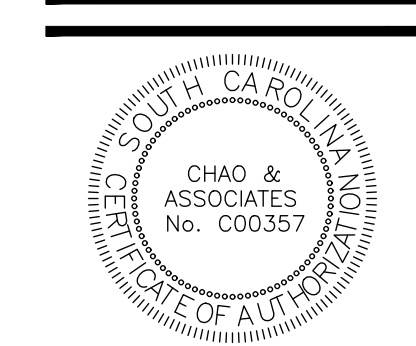
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PARKING LOT AND ROAD REPAIRS  
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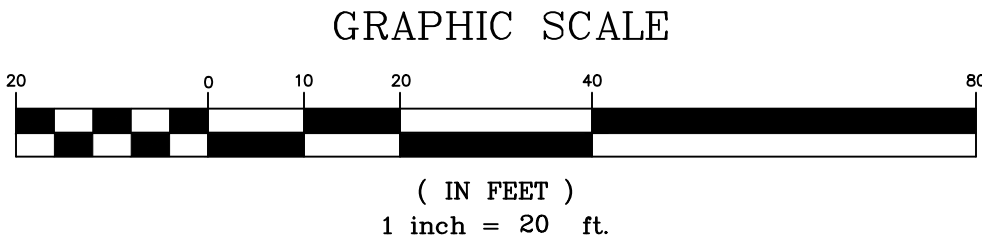
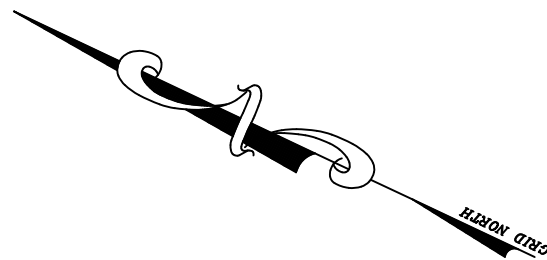
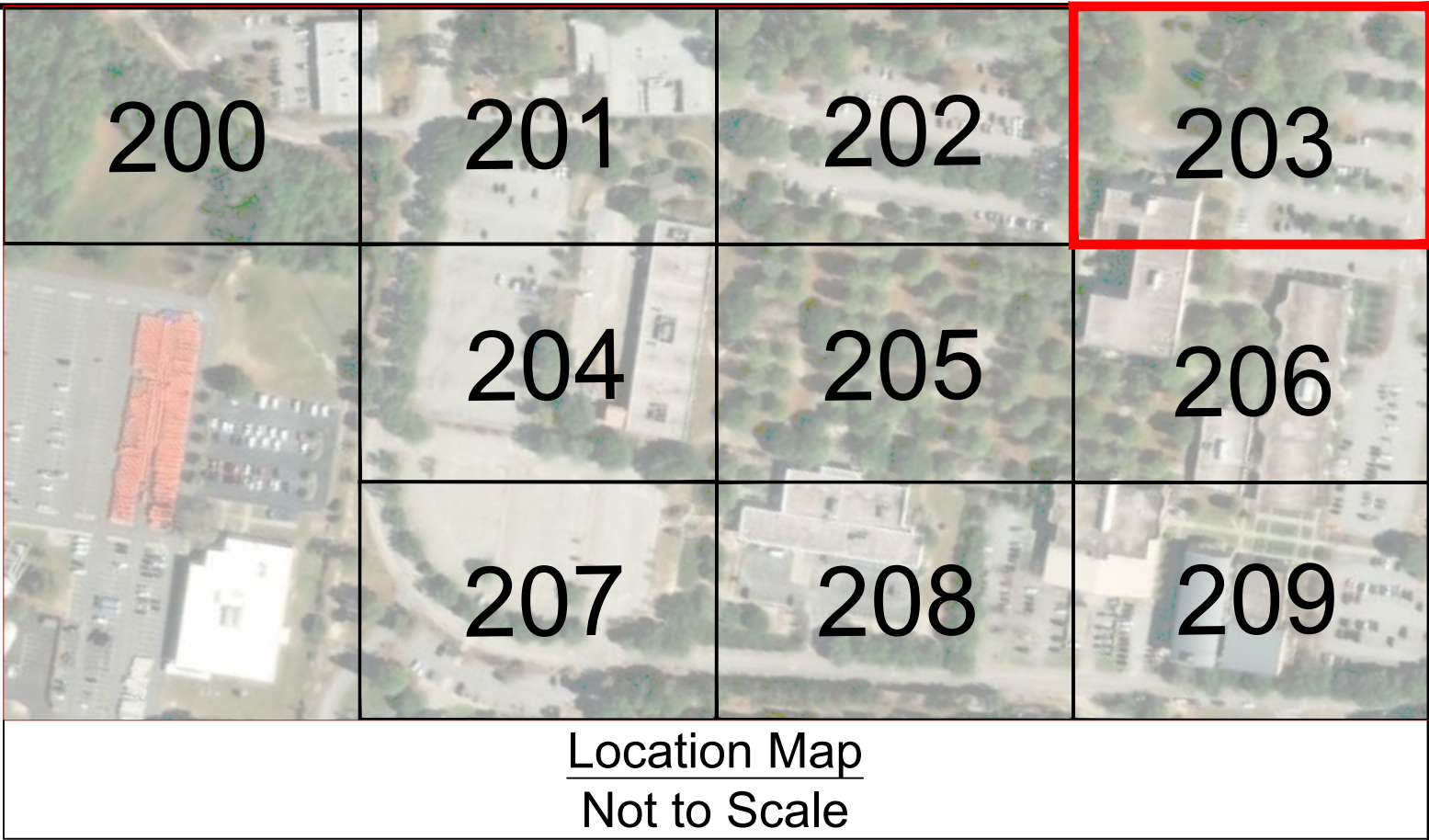
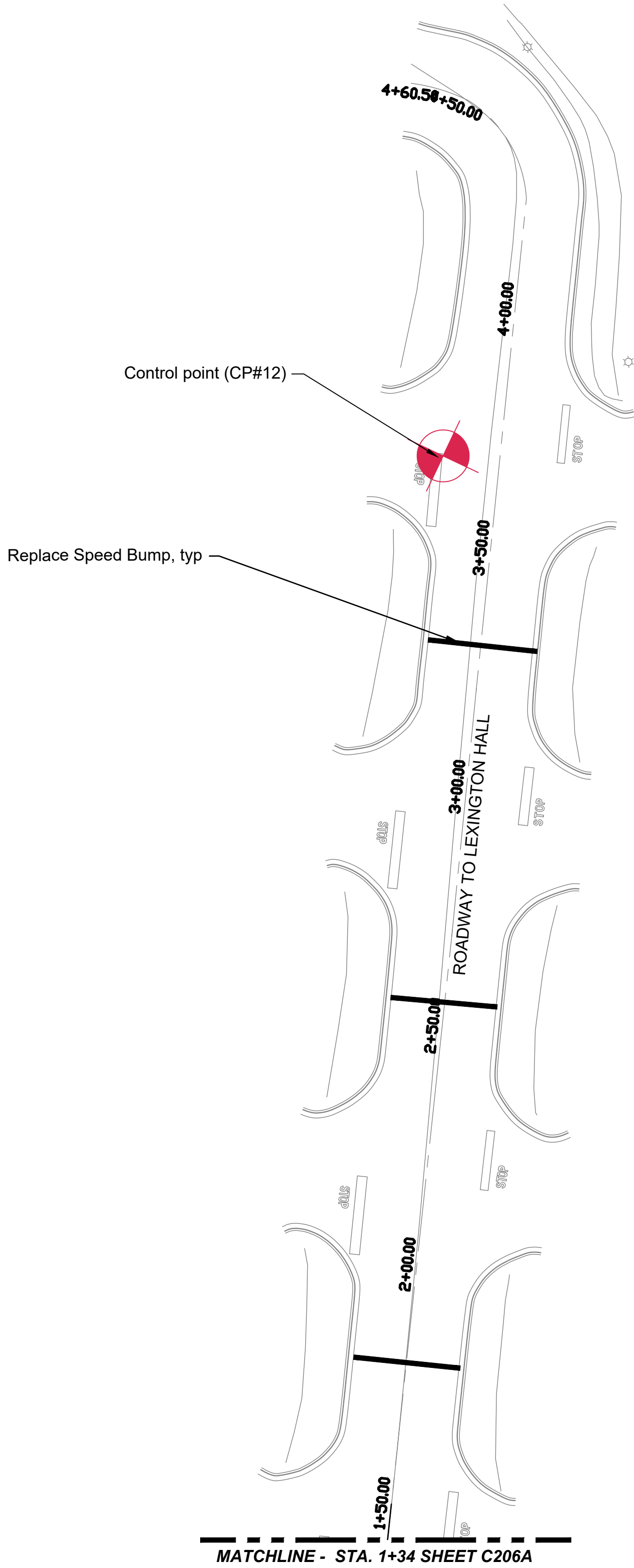
**Striping Plan**  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC	Checked: GAL
Revised:	
File: H59-6202-PD.dwg	Project No.: 398545-24

C202A  
Sheet Number  
March 21, 2025  
Date

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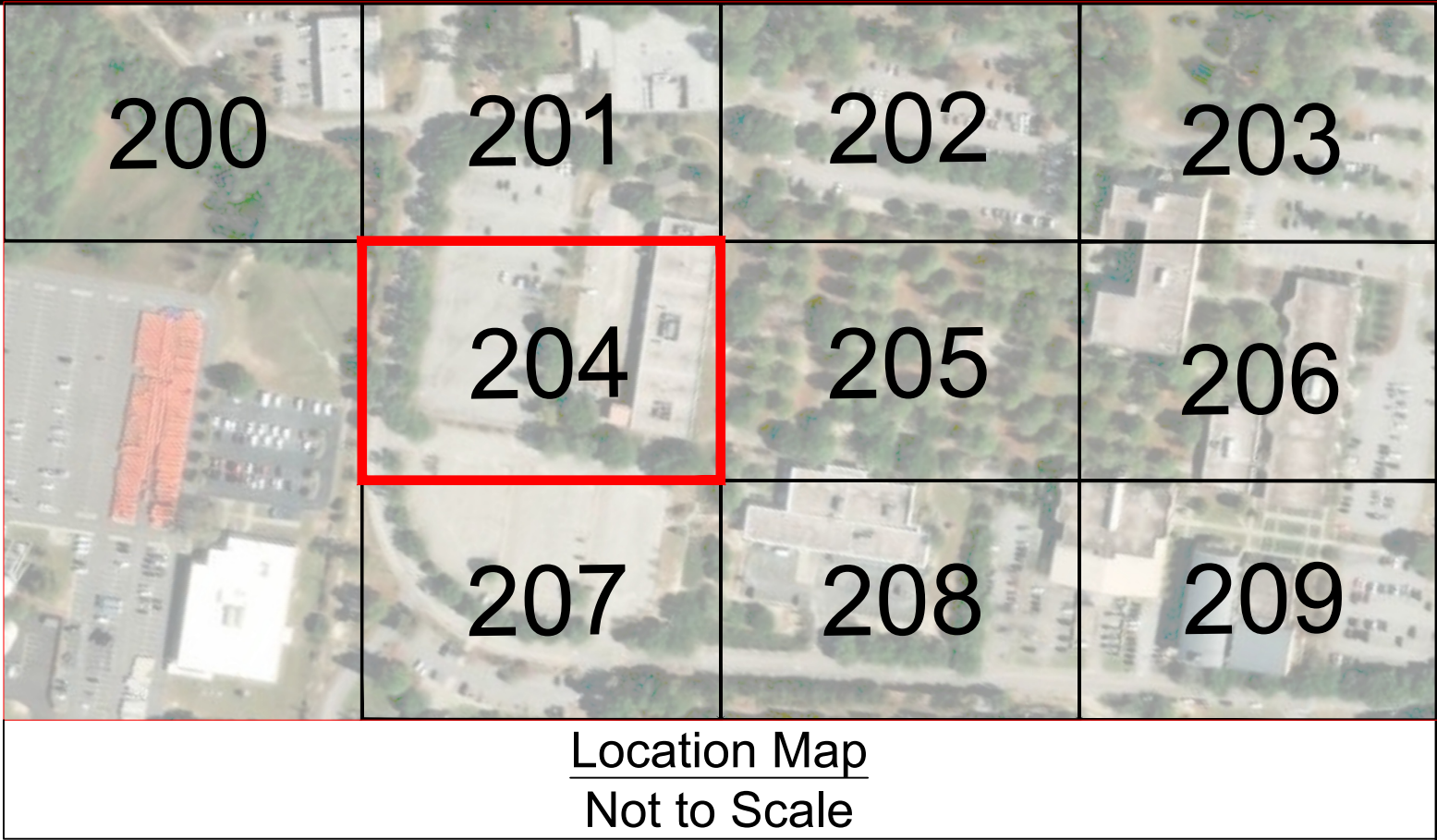


**Striping Plan**  
**Deferred Maintenance**  
**- Parking and Road Repairs**  
**Prepared For:**  
**Midlands Tech Airport Campus**

Drawn: EYC	Checked: GAL
Revised:	
File: H59-6202-PD.dwg	Project No.: 398545-24

**C203A**  
Sheet Number  
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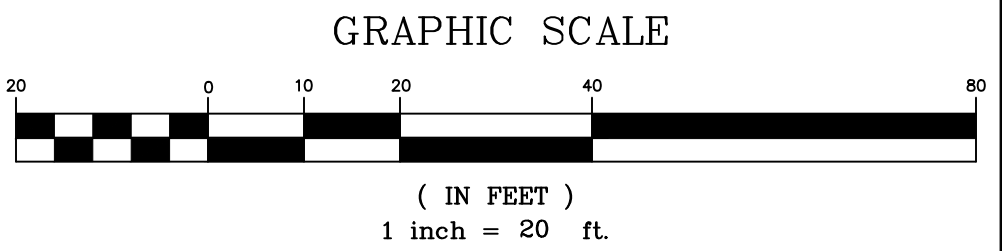




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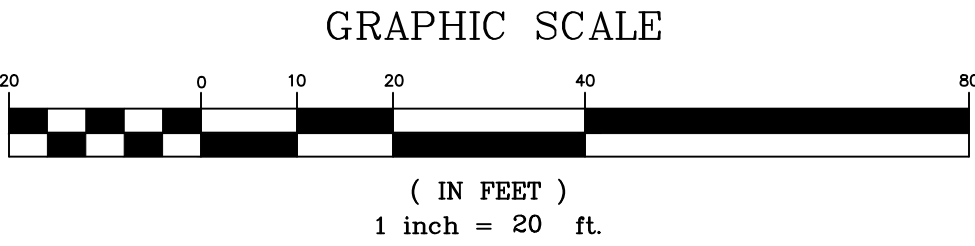
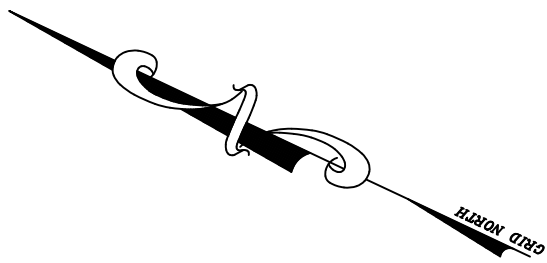
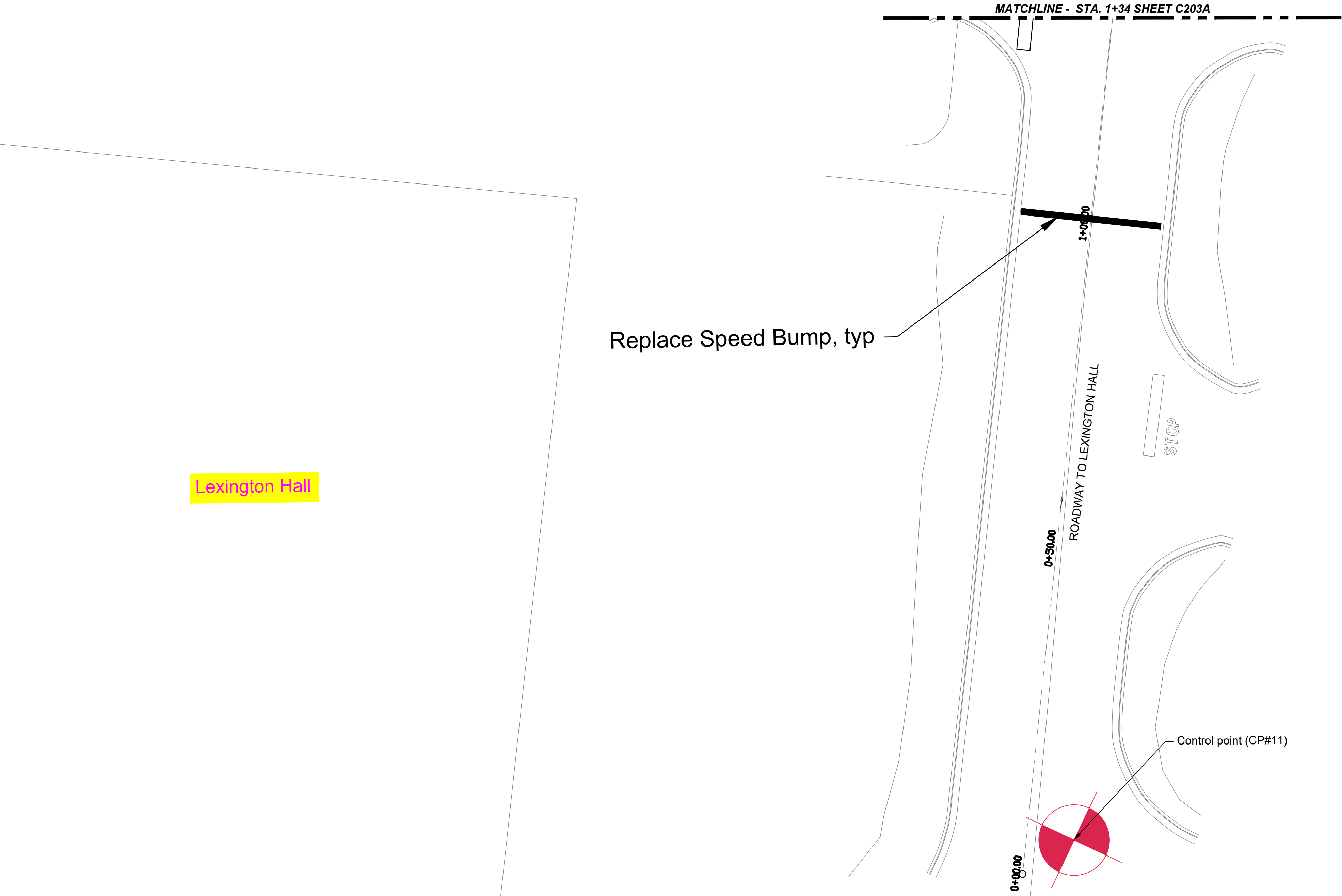
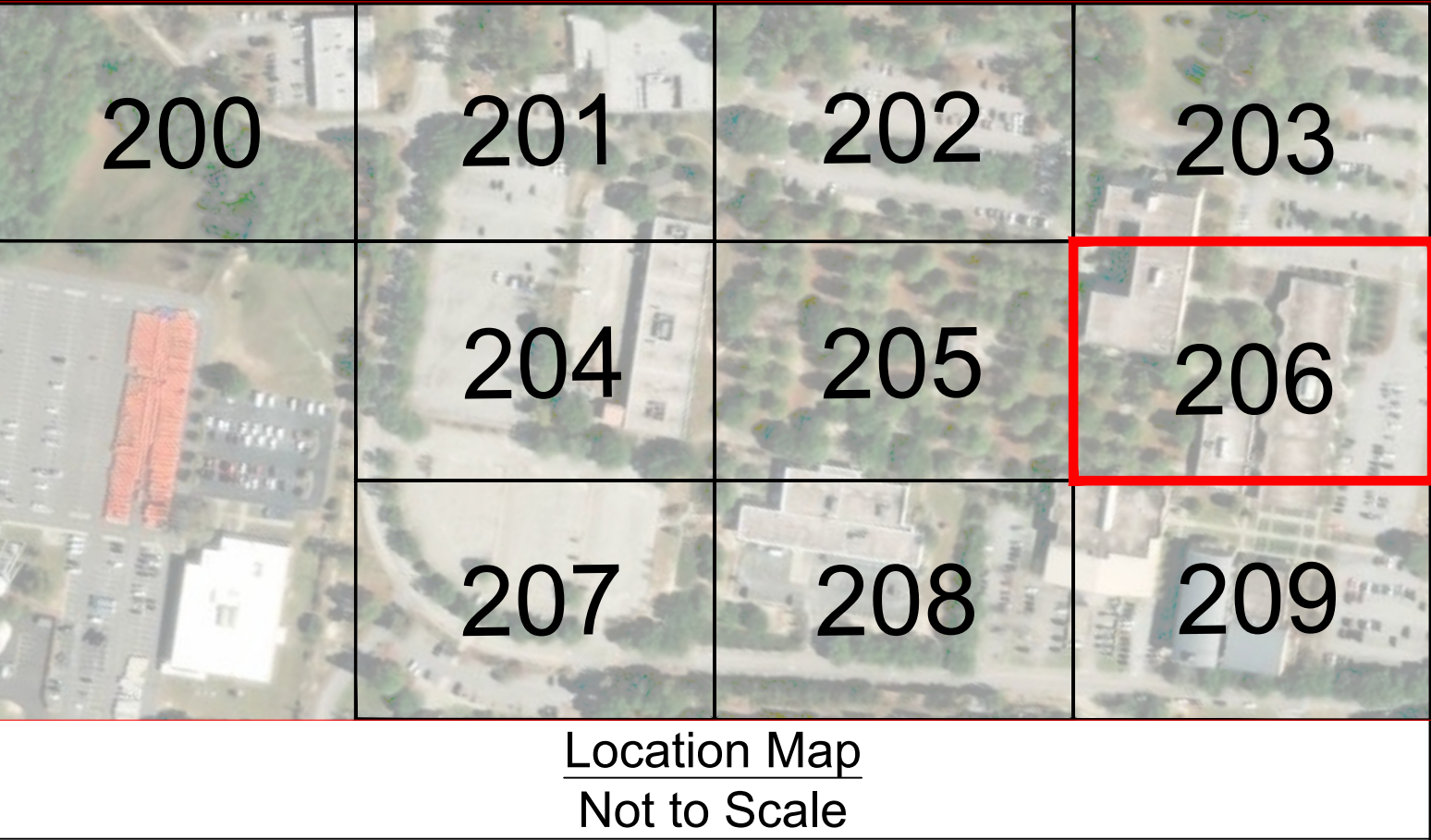


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LEGEND			
	Fire hydrant		Curb & gutter
	Water valve		Junction box (JB)
	Water meter		Drop inlet (DI)
	Gas valve		Hood & grate inlet (H&G)
	Sanitary sewer manhole		Yard inlet (YI)
	Cleanout (CO)		Storm drain pipe
	Natural gas line		Concrete sidewalk
	Sanitary sewer line		Power pole & guy
	Water line		Light pole
	Fenceline		Electrical box
	Overhead electric		Sign
	Underground telephone		Limits of disturbance
	Underground fiber optic		
	Underground cable TV		
	Telephone pedestal		

PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD





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  - Contractor shall restore parking stripping, handicapped signs, visitor parking signs, stop bars, traffic arrows, traffic lines, crosswalks, painted islands and wheel stops, etc to original places after asphalt pavement rehabilitation is completed.
  - Contractor to protect all existing trees along work limits.
  - Contractor responsible for traffic control.

- Installation:
- All spot grades are existing top of curb.
  - Contractor to mill and repave 1 ½" asphalt.
  - Existing curb to remain if not shown to be removed and/or replaced.
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	Water line		Light pole
	Fenceline		Electrical box
	Overhead electric		Sign
	Underground telephone		Limits of disturbance
	Underground fiber optic		
	Underground cable TV		
	Telephone pedestal		

PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD

CHAO & ASSOCIATES, INC.

CONSULTING ENGINEERS & LAND SURVEYORS

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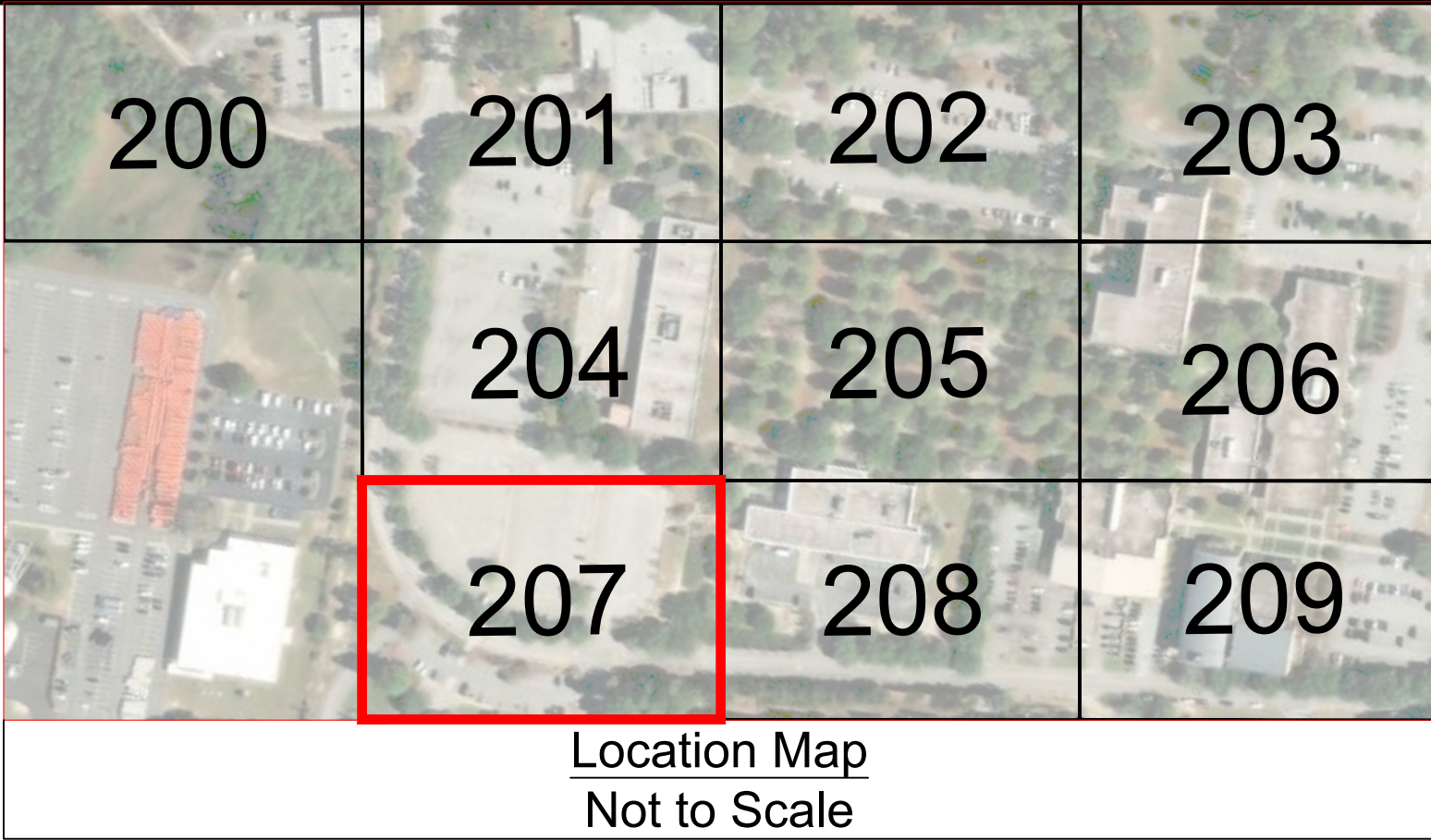
Striping Plan  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC	Checked: GAL
Revised:	
File: H59-6202-PD.dwg	Project No.: 398545-24

C206A

Sheet Number  
March 21, 2025  
Date





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03/21/2025

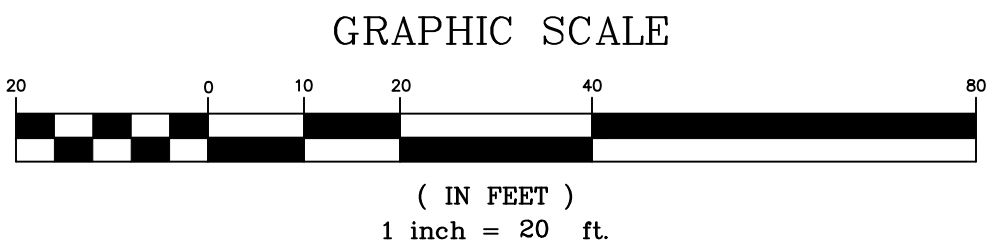
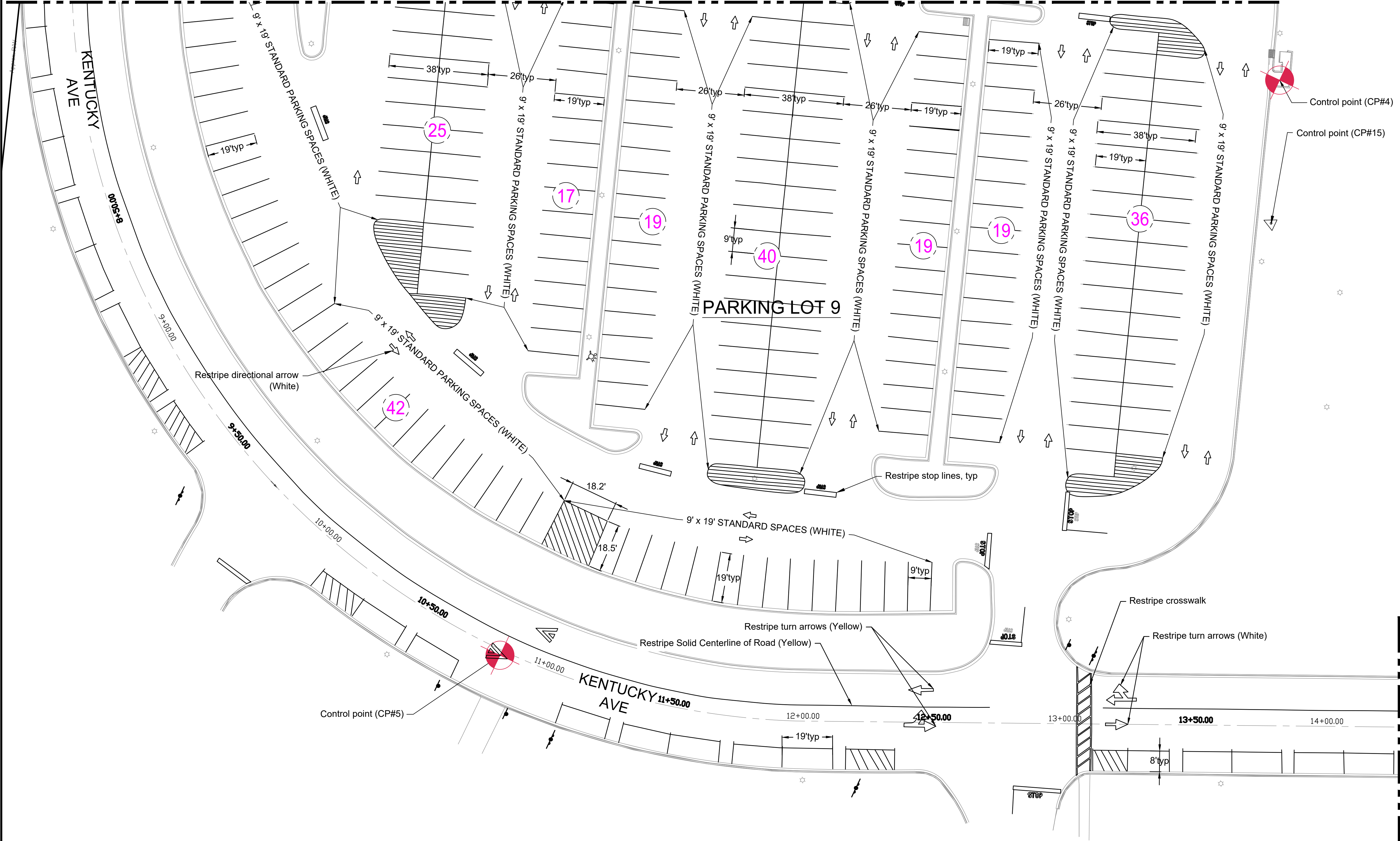
CHAO & ASSOCIATES, INC.  
No. C00357

**Striping Plan**  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC    Checked: GAL  
Revised:  
Project No.: 398545-24  
File: H59-6202-PD.dwg

**C207A**  
Sheet Number  
March 21, 2025  
Date

MATCHLINE - STA. 7+66 SHEET C204A



- Notes:
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  7. Contractor to protect all existing trees along work limits.
  8. Contractor responsible for traffic control.
- Installation:
1. All spot grades are existing top of curb.
  2. Contractor to mill and repave 1 1/2" asphalt.
  3. Existing curb to remain if not shown to be removed and/or replaced.
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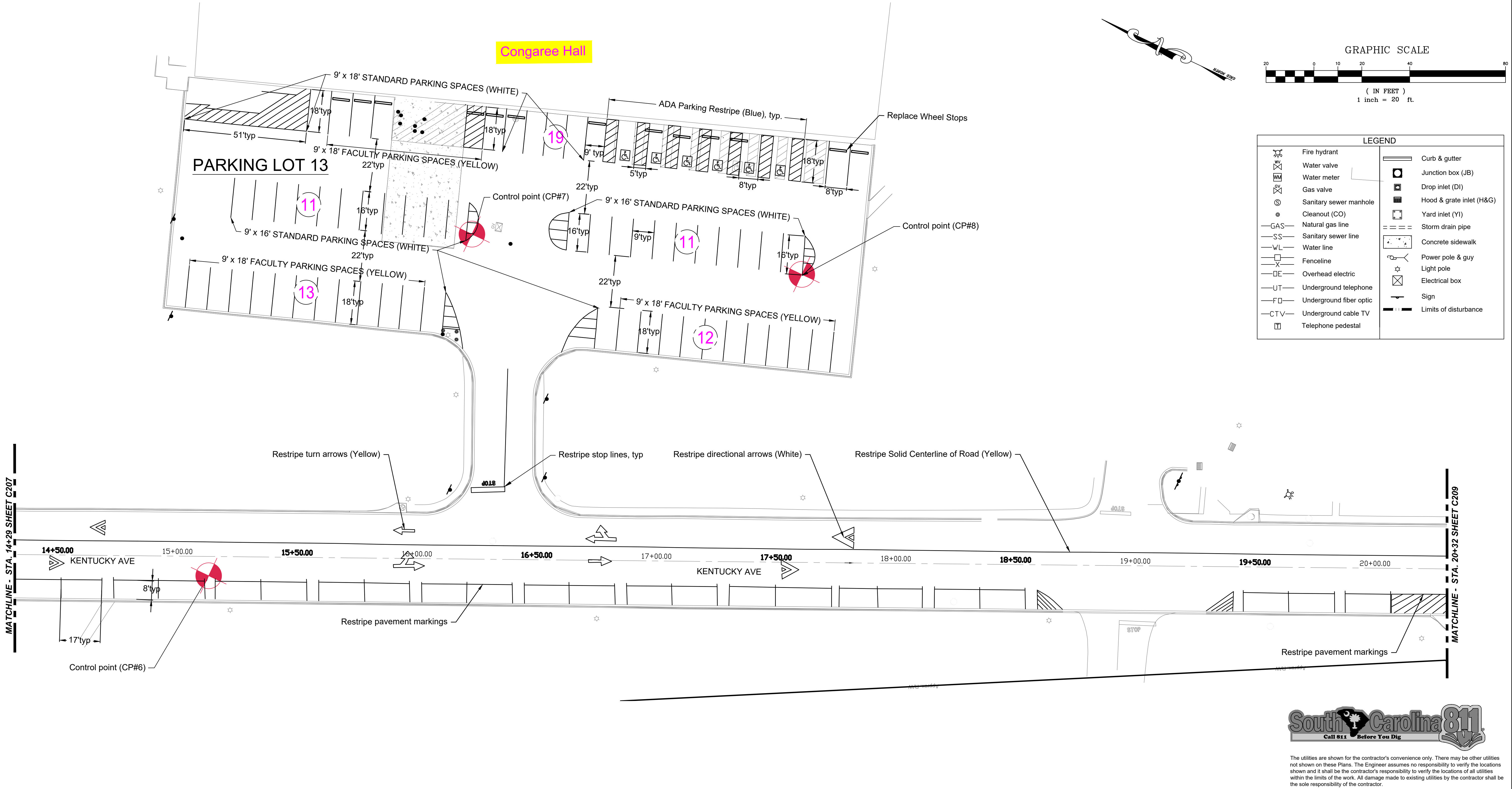
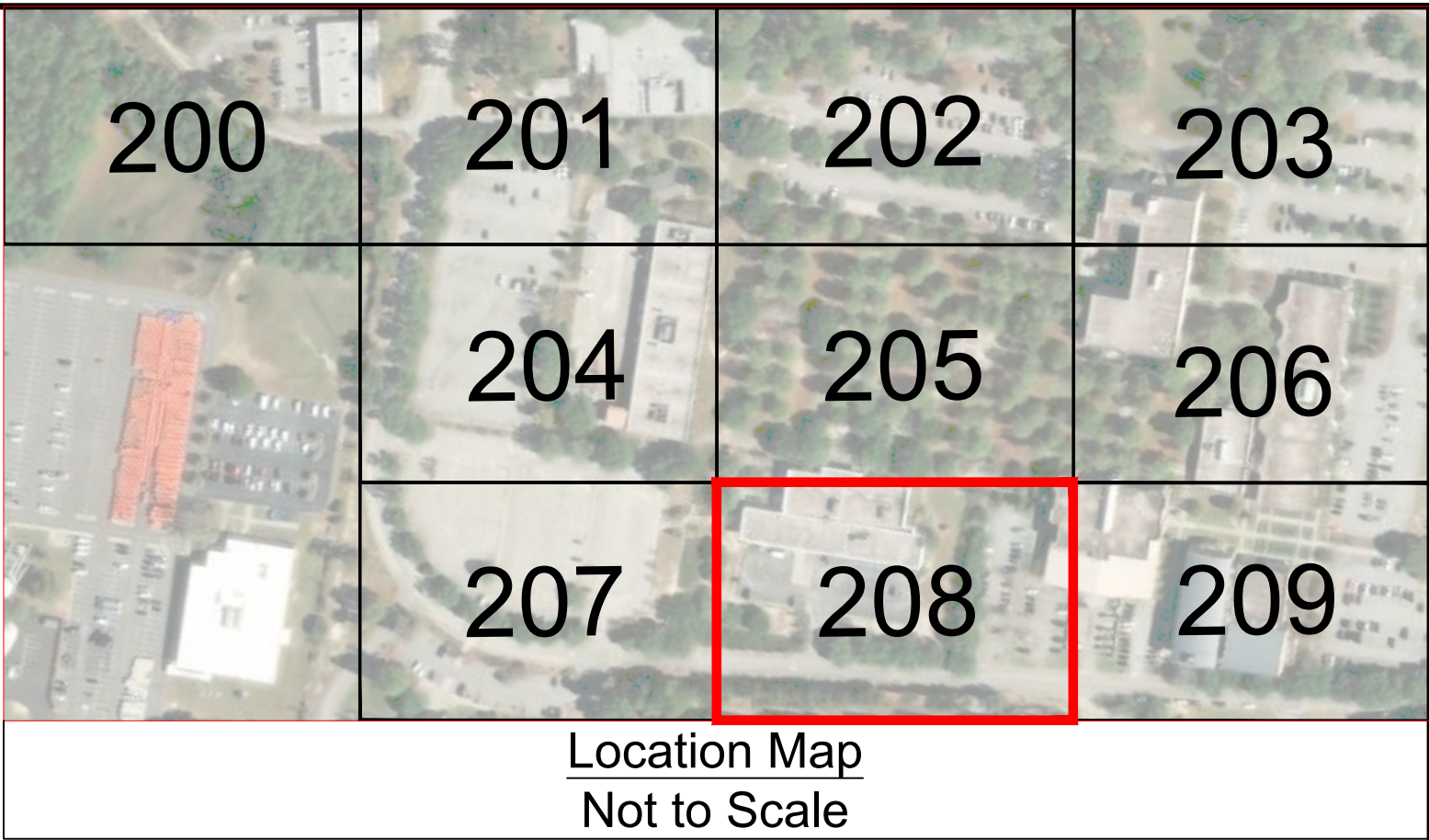
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	Water valve
	Water meter
	Gas valve
	Sanitary sewer manhole
	Cleanout (CO)
	Natural gas line
	Sanitary sewer line
	Water line
	Fenceline
	Overhead electric
	Underground telephone
	Underground fiber optic
	Underground cable TV
	Telephone pedestal
	Curb & gutter
	Junction box (JB)
	Drop inlet (DI)
	Hood & grate inlet (H&G)
	Yard inlet (YI)
	Storm drain pipe
	Concrete sidewalk
	Power pole & guy
	Light pole
	Electrical box
	Sign
	Limits of disturbance

PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD



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PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD

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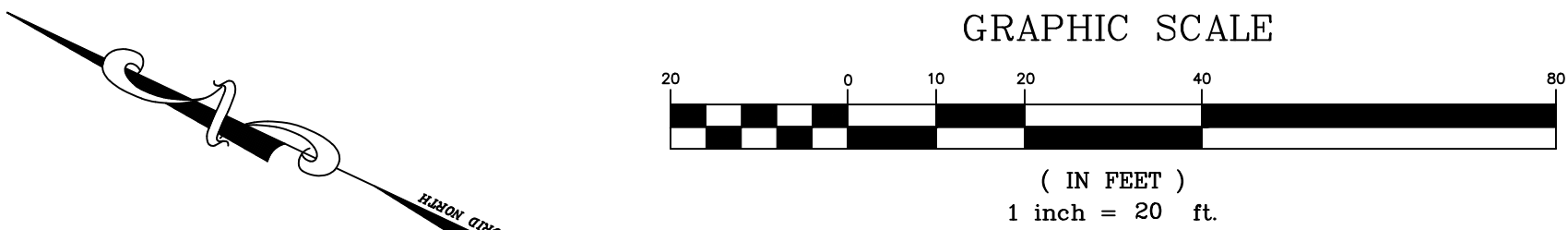
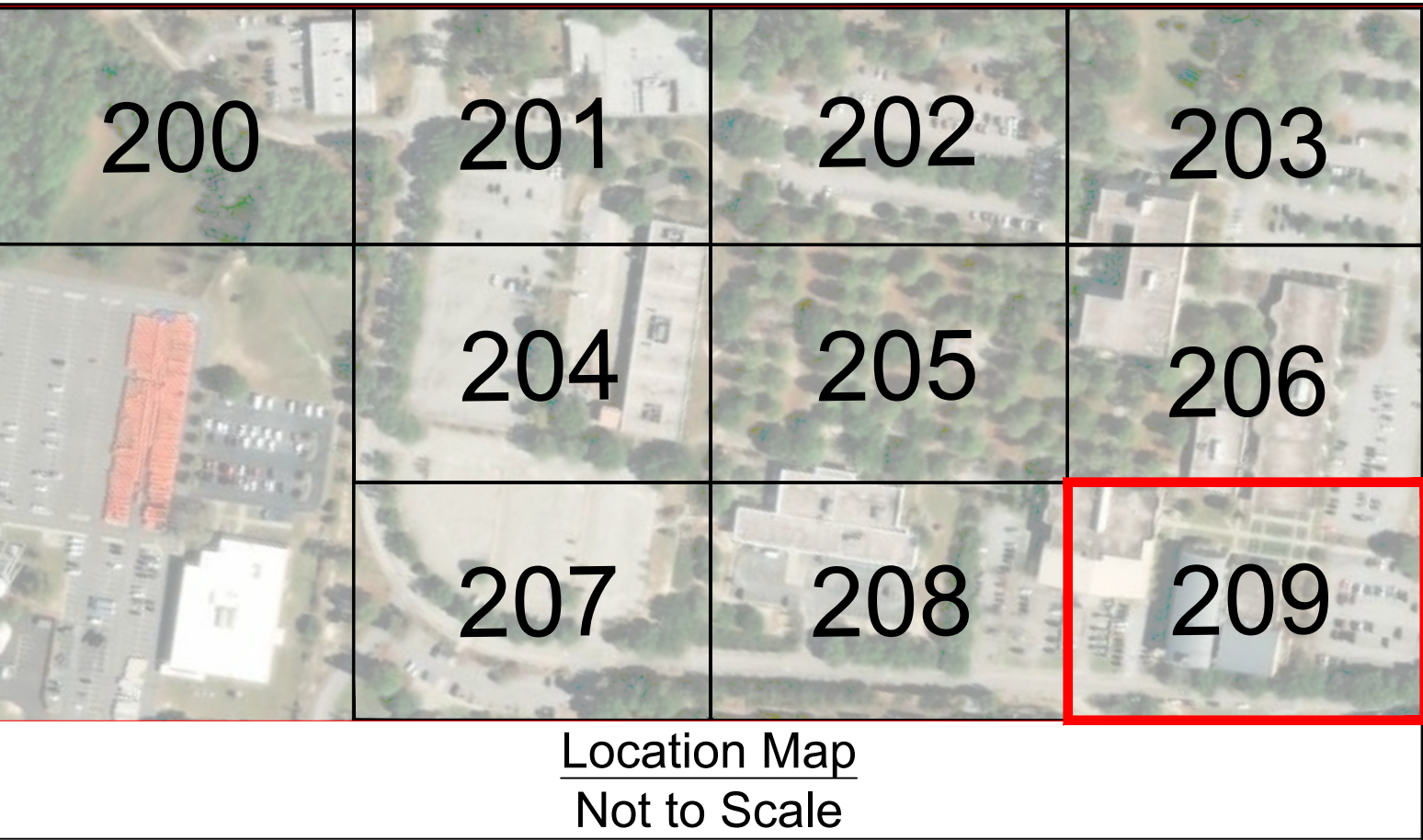
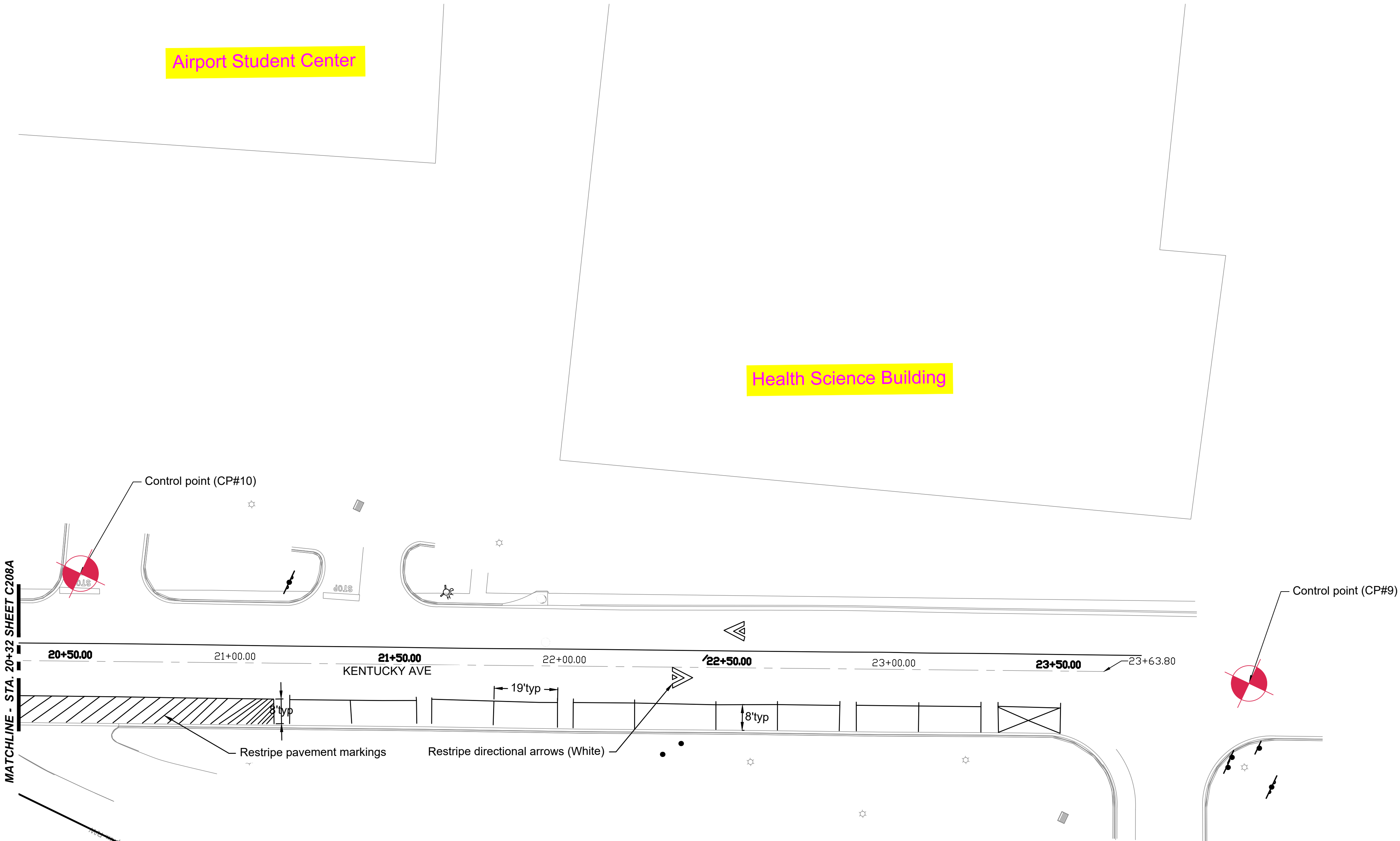
Striping Plan  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC	Checked: GAL
Revised:	
File: H59-6202-PD.dwg	Project No.: 398545-24

C208A

Sheet Number  
March 21, 2025  
Date





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  8. Contractor responsible for traffic control.
  9. All elevations are referenced to mean sea level (MSL) datum.
  10. All pavement dimensions are referenced to the face of curb where applicable.
  11. Contractor is required to contact Utility Protection Service (811) three days prior to any digging or commencing construction.
  12. Provide silt fence and other erosion control devices, as may be required, to control soil erosion during construction. All disturbed areas shall be cleaned, graded and stabilized with grassing immediately after completion of construction in the area.
  13. Contractor shall take necessary action to minimize the tracking of mud onto the paved roadway from construction areas. Contractor to daily remove mud/soil from pavement as required.
  14. All construction staking shall be provided at the contractor's expense.
  15. Contractor to clear existing culverts/pipes, catch basins and ditches along frontage and downstream as necessary to achieve positive drainage.
  16. Contractor to saw cut existing asphalt for smooth joint not aligned with wheel path.
  17. Existing light poles and signages will remain in place. Contractor is to mill and repave around existing light pole and signage, where applicable.

- References:
1. Report of Pavement Thickness Measurements, Midlands Technical College, Airport Campus Parking Lots - prepared by BLE, Project No. J24-22579-01, dated May 31, 2024.
  2. Boundary and topographic information (1-foot contour) were surveyed using LiDAR by Back Forty Aerial Solutions, dated October 12, 2024.



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PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD



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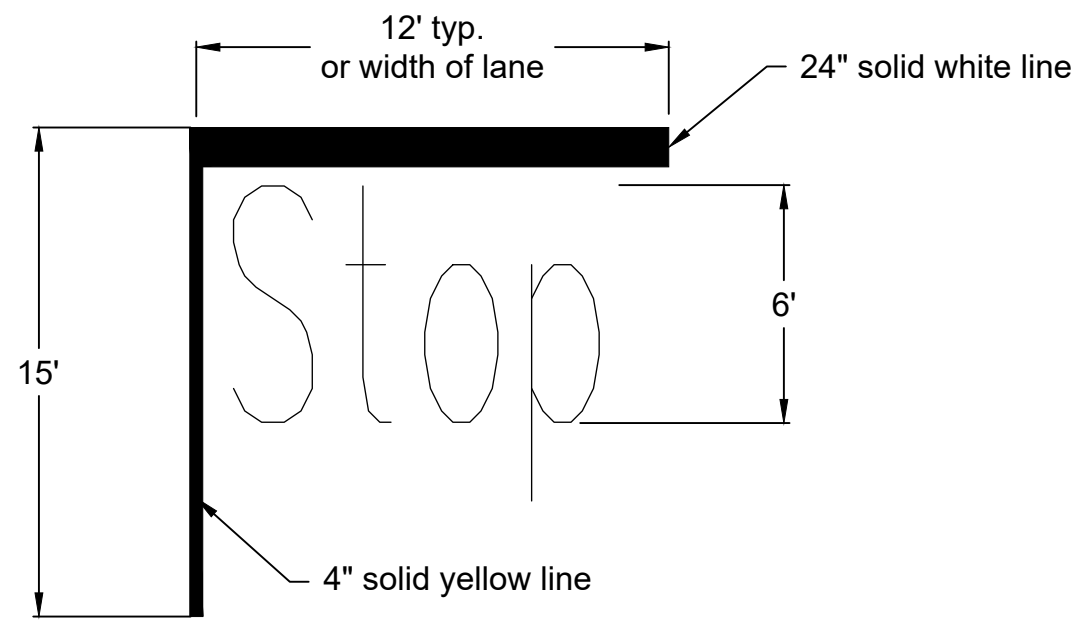
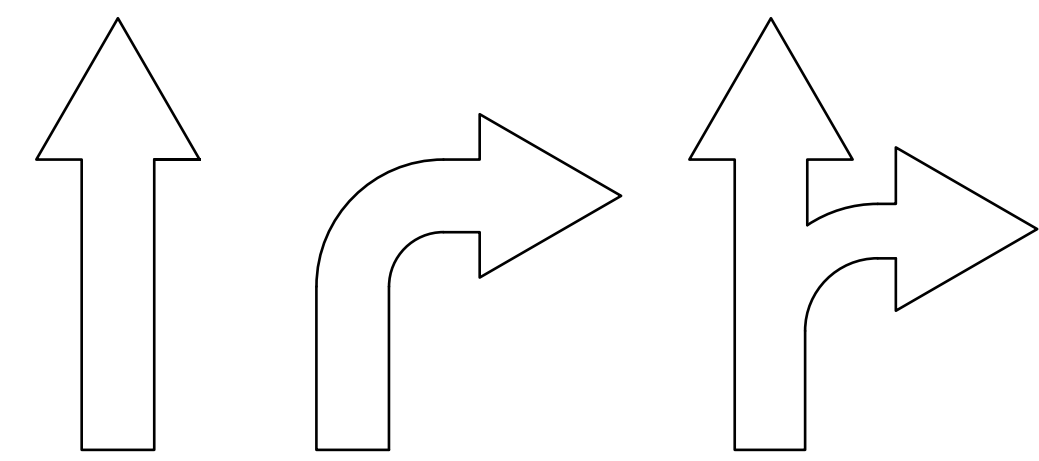
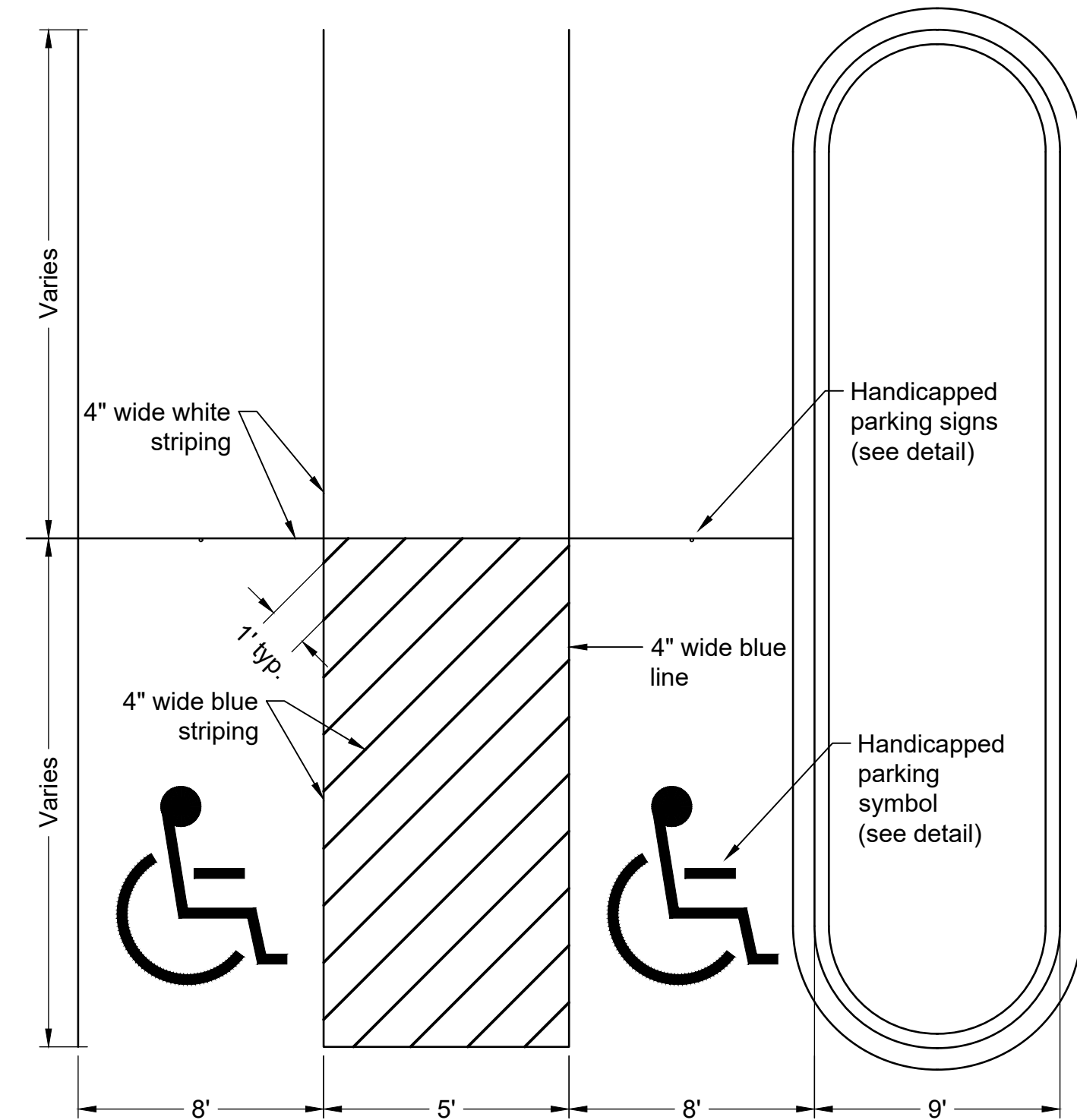
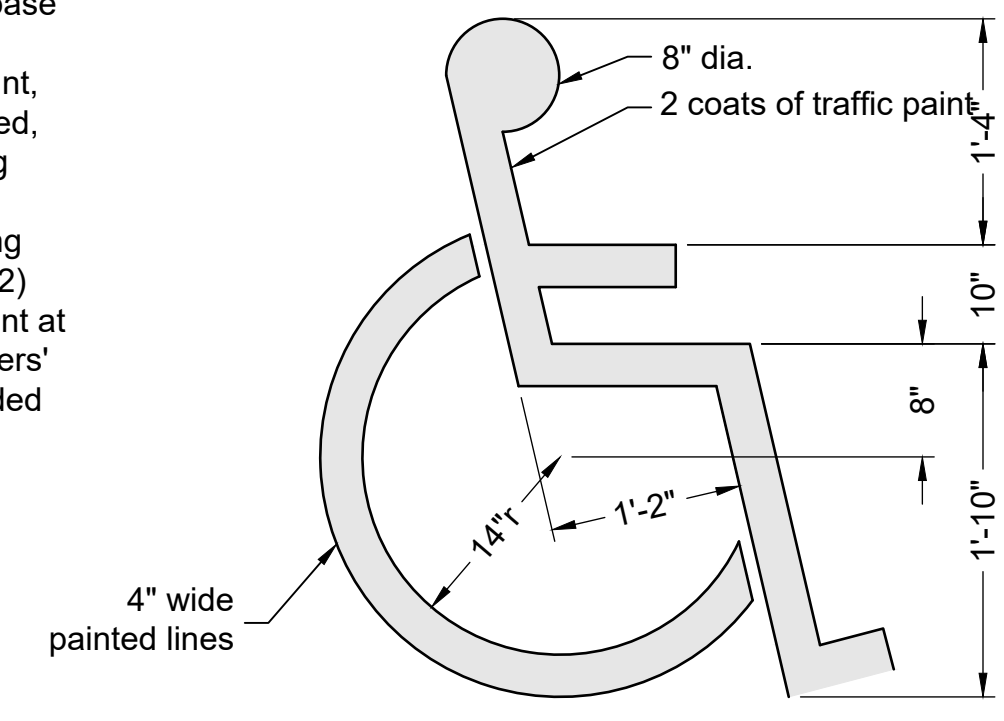
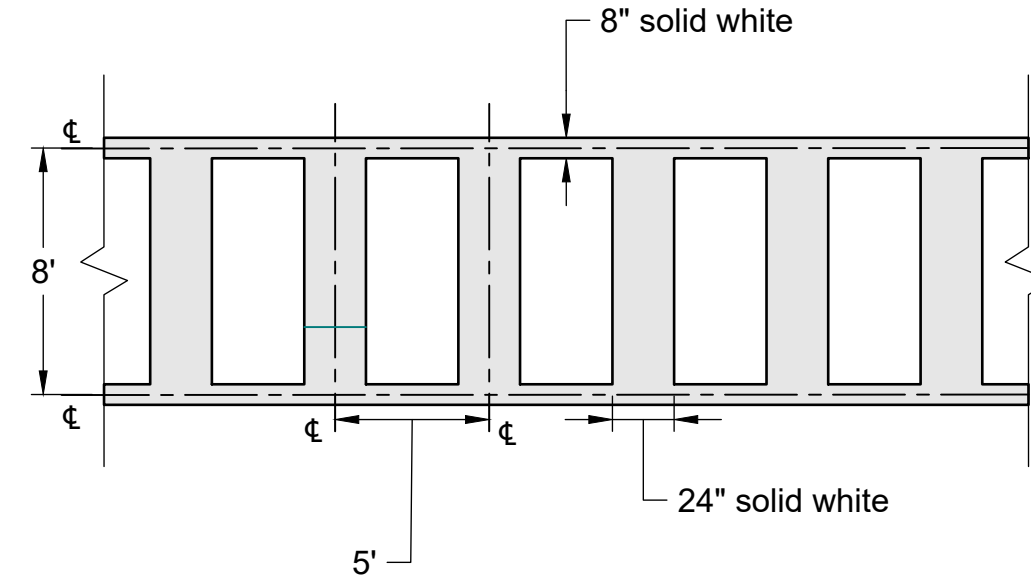
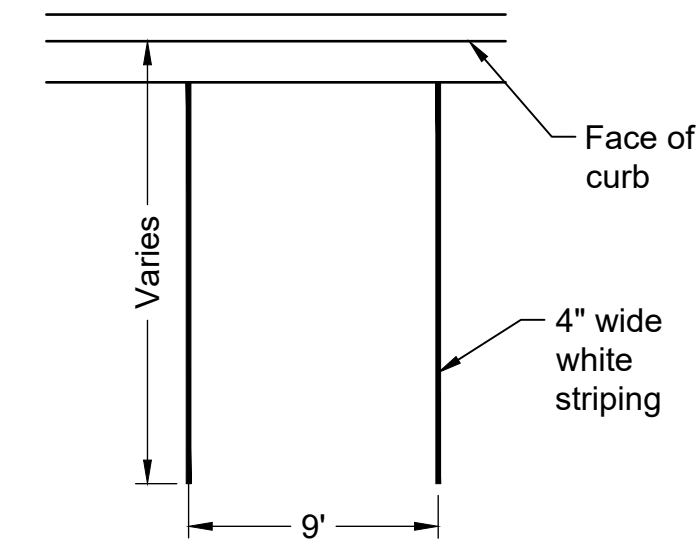
Striping Plan  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC      Checked: GAL  
Revised:  
Project No.: 398545-24  
File: H59-6202-PD.dwg

C209A

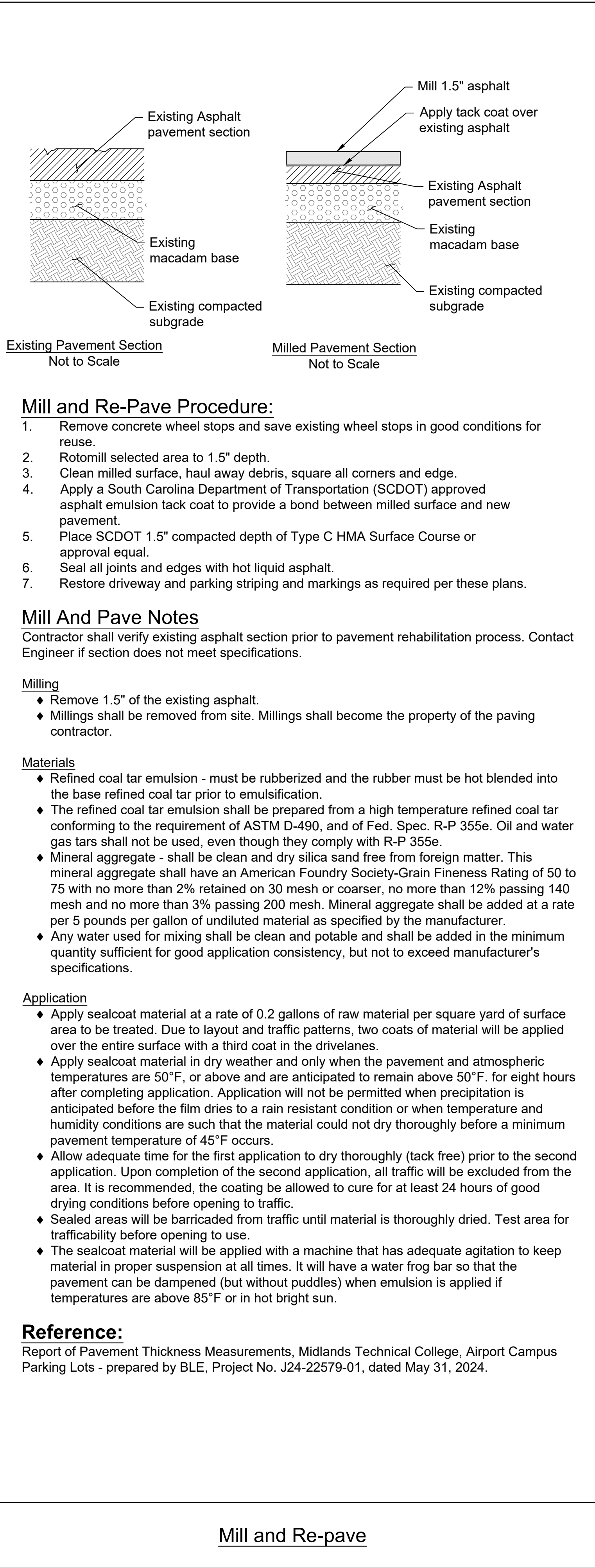
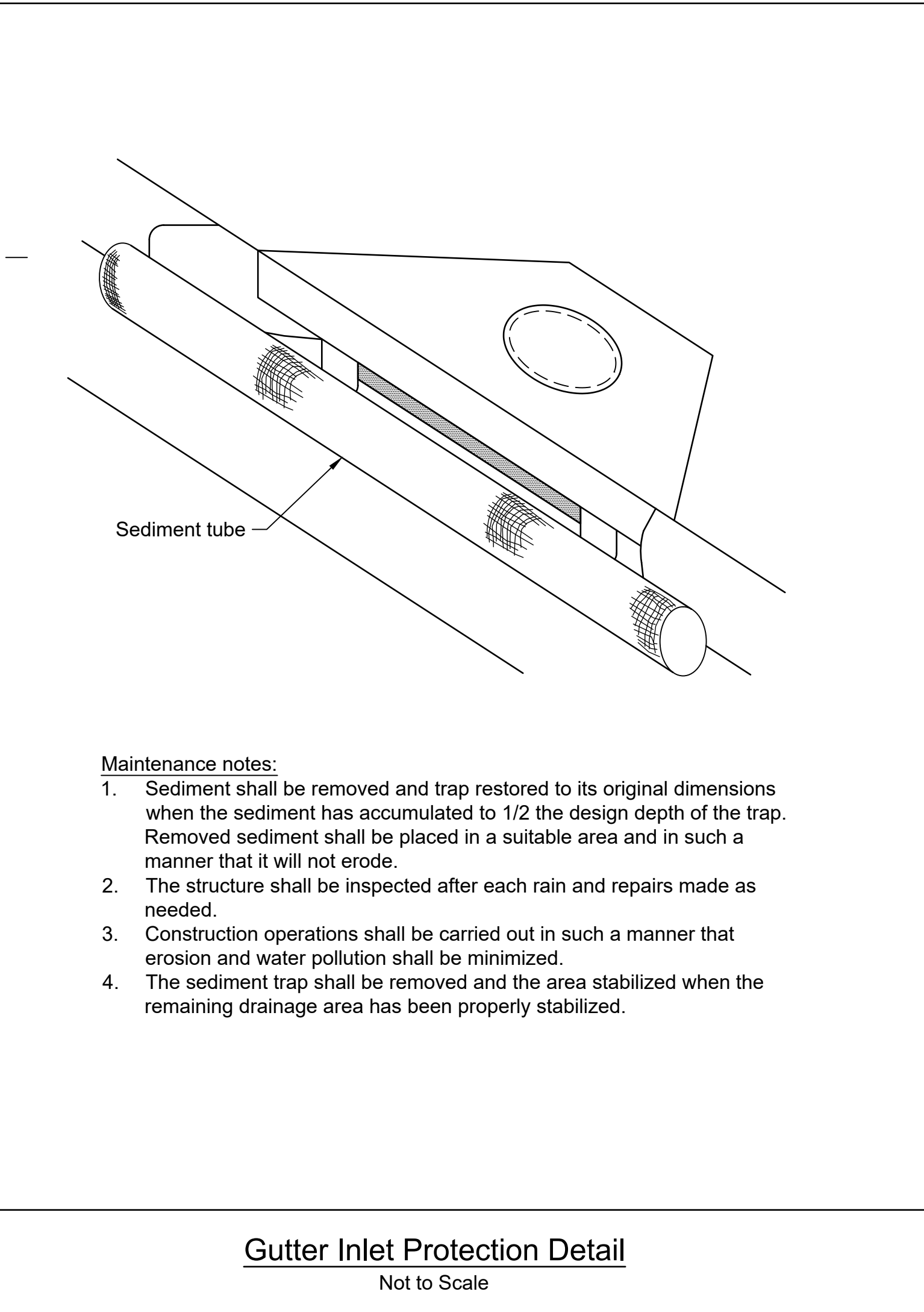
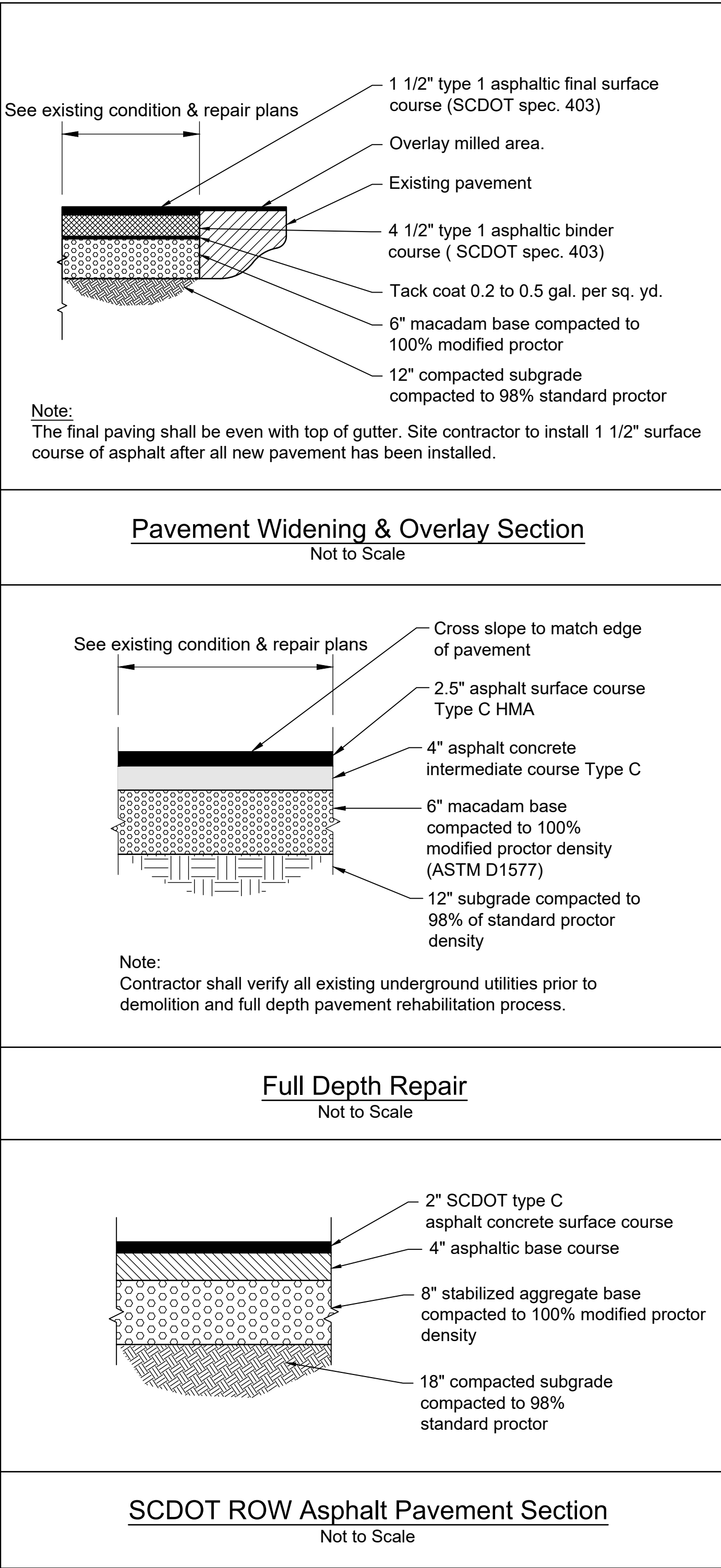
Sheet Number  
March 21, 2025  
Date



	 <p>Striping Notes:</p> <ol style="list-style-type: none"><li>1. Use alkyd base traffic lane marking paint, factory mixed, quick drying and non-bleeding</li><li>2. Apply two (2) coats of paint at manufacturers' recommended rates</li></ol>	 <p>Striping Notes:</p> <ol style="list-style-type: none"><li>1. Use alkyd base traffic lane marking paint, factory mixed, quick drying and non-bleeding</li><li>2. Apply two (2) coats of paint at manufacturers' recommended rates</li><li>3. Use white for striping and blue for ADA related striping</li></ol>	
<p><b>Typical Stop Line Detail</b> Not to Scale</p>	<p><b>Typical Pavement Markings</b> Not to Scale</p>		
<p>Striping Notes:</p> <ol style="list-style-type: none"><li>1. Use alkyd base traffic lane marking paint, factory mixed, quick drying and non-bleeding</li><li>2. Apply two (2) coats of paint at manufacturers' recommended rates</li></ol> 	 <p>Striping Notes:</p> <ol style="list-style-type: none"><li>1. Use alkyd base traffic lane marking paint, factory mixed, quick drying and non-bleeding</li><li>2. Apply two (2) coats of paint at manufacturers' recommended rates</li></ol>		
<p><b>Handicapped Parking Symbol Detail</b> Not to Scale</p>	<p><b>School Crosswalk Marking</b> Not to Scale</p>	<p><b>Typical Parking &amp; Island Layout</b> Not to Scale</p>	
		 <p>Striping Notes:</p> <ol style="list-style-type: none"><li>1. Use alkyd base traffic lane marking paint, factory mixed, quick drying and non-bleeding</li><li>2. Apply two (2) coats of paint at manufacturers' recommended rates</li><li>3. Use white for striping and blue for ADA related striping</li></ol>	
		<p><b>Parking Space Layout</b> Not to Scale</p>	

PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
STATE PROJECT NO.: H59-6202-PD





PROJECT: DEFERRED MAINTENANCE -  
PARKING LOT AND ROAD REPAIRS  
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Construction Details  
Deferred Maintenance  
- Parking and Road Repairs  
Prepared For:  
Midlands Tech Airport Campus

Drawn: EYC      Checked: GAL  
Revised:  
File: H59-6202-PD.dwg      Project No.: 398545-24

C301  
Sheet Number  
March 21, 2025  
Date