SITE PLANS

SHEET NO.	DESCRIPTION
$\begin{array}{c} \text{SHEET NO.} \\ \hline \\ & \text{C-100} \\ & \text{C-101A} \\ & \text{C-101B} \\ & \text{C-102} \\ & \text{C-102} \\ & \text{C-103} \\ & \text{C-104} \\ & \text{C-105} \\ & \text{C-106} \\ & \text{C-107} \\ & \text{C-106} \\ & \text{C-107} \\ & \text{C-108} \\ & \text{C-109} \\ & \text{C-110} \\ & \text{C-111} \\ & \text{C-112} \end{array}$	DESCRIPTION PAVING LOCATION MAP JACKSON PARK MAINTENANCE BUILDING JACKSON PARK MAINTENANCE BUILDING – STORMWATER ADD/ALT 4TH AVENUE PAVING AND BRIDGE RESURFACING JACKSON PARK ROAD COOPERATIVE EXTENSION HEALTH AND HUMAN SERVICES CENTRAL SERVICES HENDERSON COUNTY GARAGE EDNEYVILLE LIBRARY PROBATION AND PAROLE DEPARTMENT ANIMAL SHELTER PAVING DETAILS
C-113	ADD/ALTERNATE STORMWATER DETAILS

# 2024 Jackson Park and County Facilities Paving for Henderson County

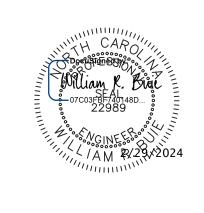
Henderson County North Carolina

## WGLA Engineering

WGLA ENGINEERING, PLLC 724 5th AVENUE WEST HENDERSONVILLE, NC 28739 (828) 687-7177 WGLA.COM NC LICENSE P-1342

2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS			
DATE	DESCRIPTION		
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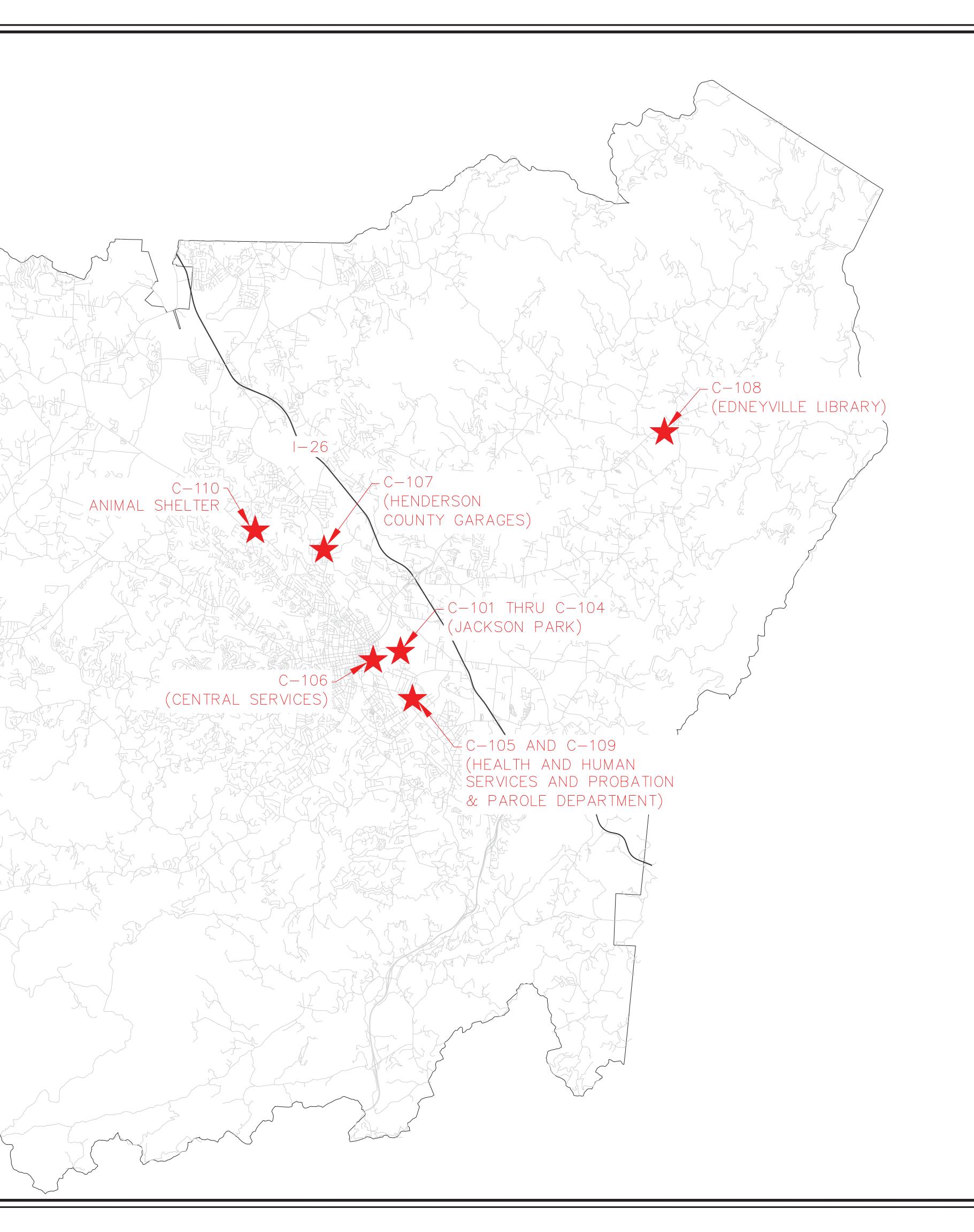
PROJECT NUMBER: DATE:

23199 1/24

Cover Sheet



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2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA

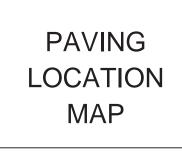


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DATE	DESCRIPTION		



PROJECT NUMBER: DATE:

23199 1/24



C-100

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### 2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS			
DATE	DESCRIPTION		



PROJECT NUMBER: DATE:

23199 1/24

### JACKSON PARK MAINTENANCE BUILDING PARKING LOT

C-101A

#### LEGEND:

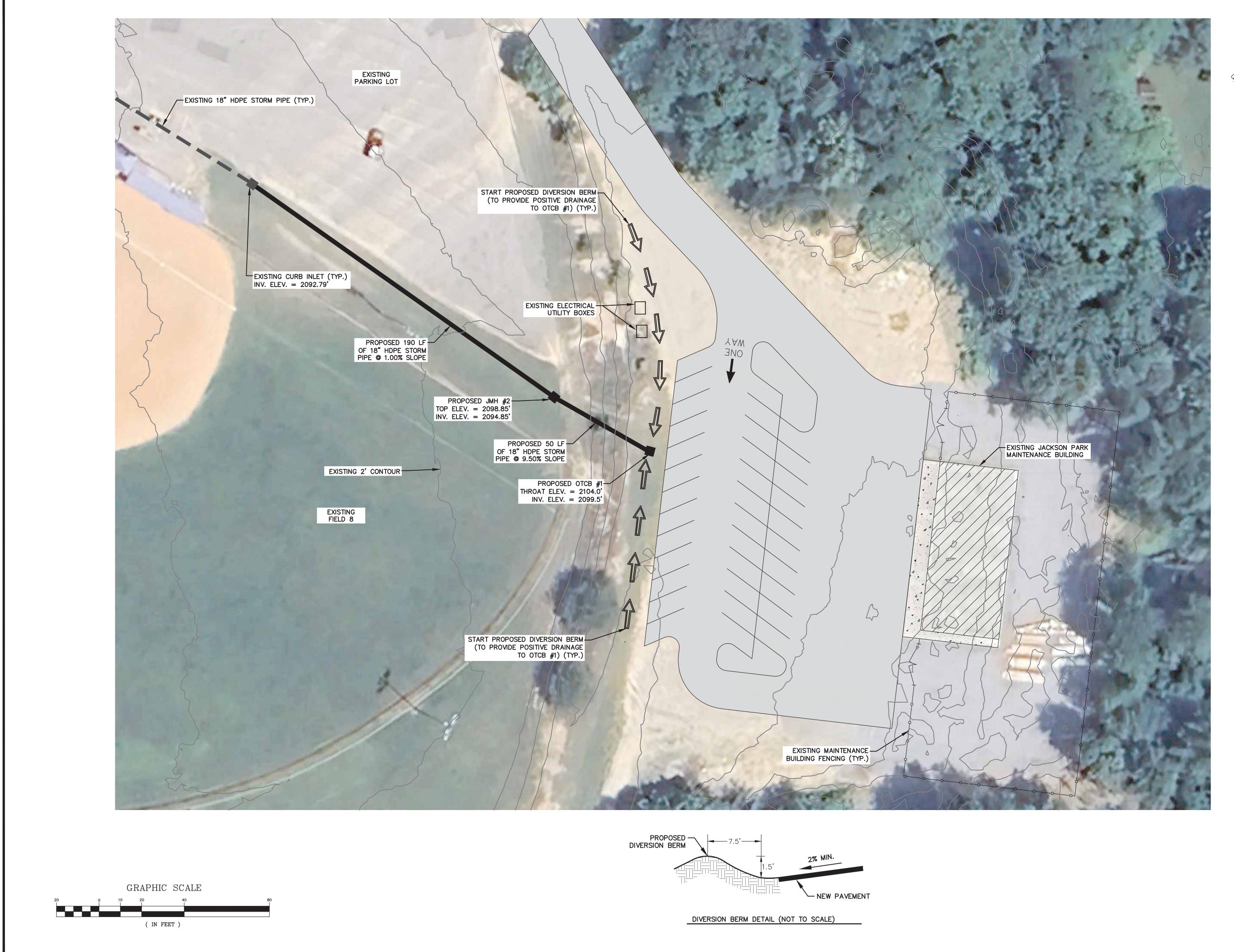
1. COMPACT EXISTING STONE AND INSTALL 4" OF ADDITIONAL STONE SUBGRADE ACROSS PROPOSED PARKING AREA. COORDINATE PROOF ROLL WITH ENGINEER PRIOR TO INSTALLING NEW ASPHALT.

2. NEW PARKING LOT TO BE INSTALLED AT A MIN. GRADE OF 2% WITH A MAX GRADE OF 5% IN ANY DIRECTION.

NOTES:

4" OF ADDITIONAL STONE SUBGRADE W/ 2" NEW ASPHALT

SCALE: 1"=20'



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2024 Jackson Park and County **Facilities** Paving

HENDERSON COUNTY NORTH CAROLINA



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DATE	DESCRIPTION		



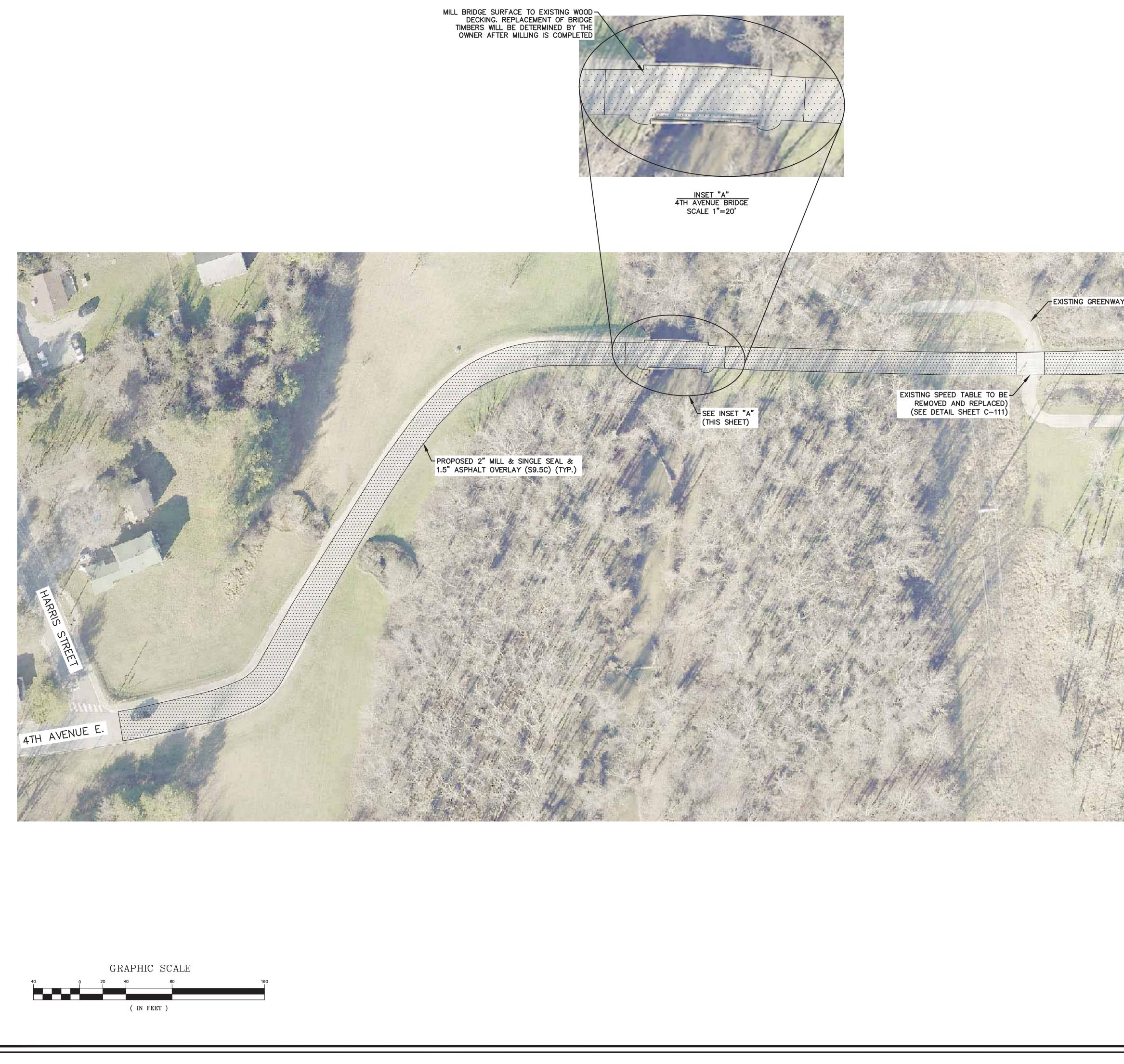
PROJECT NUMBER: DATE:

23199 1/24

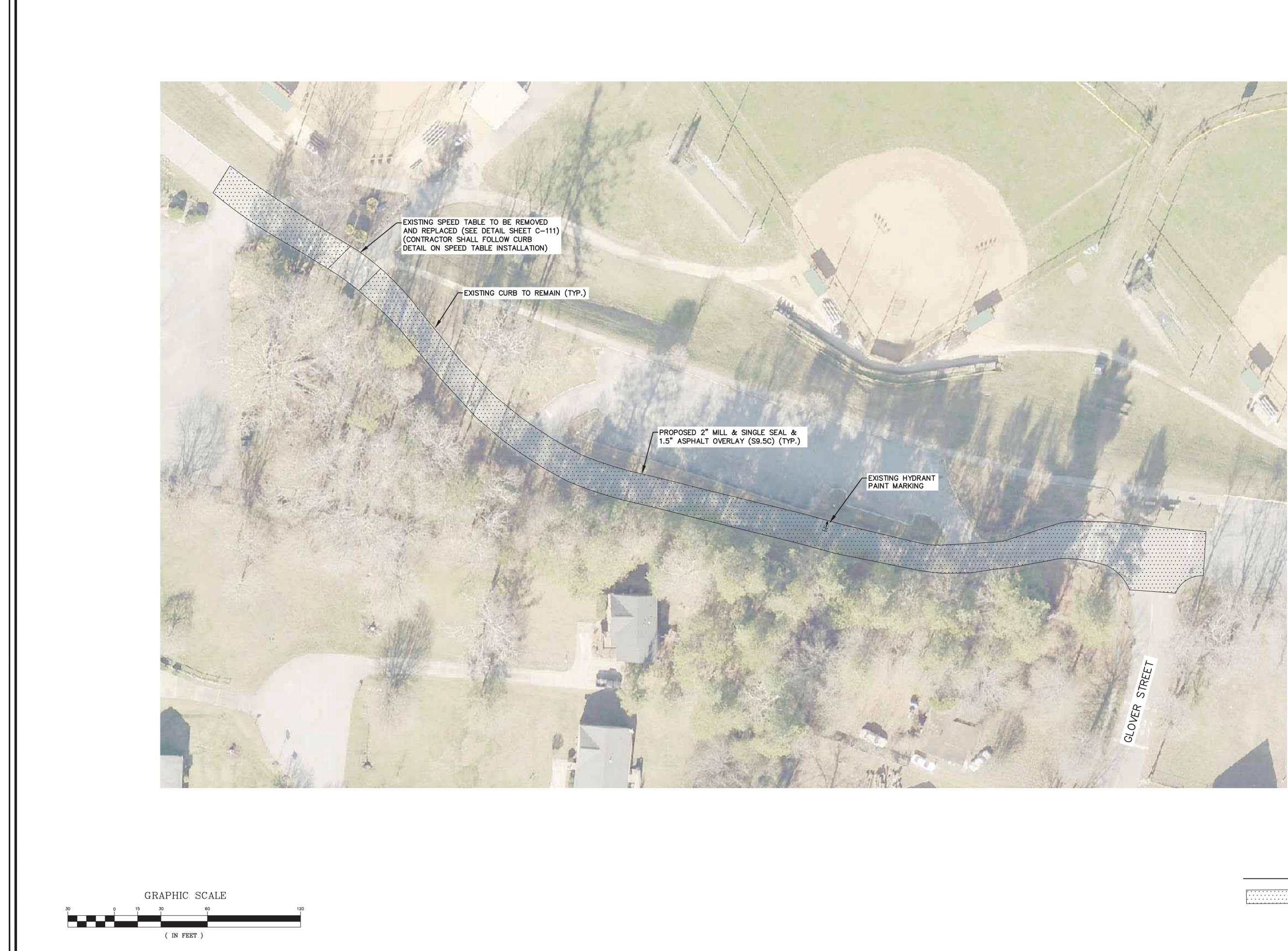
MAINTENANCE BUILDING STORMWATER ADD/ALT

C-101B

SCALE: 1"=20'







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2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS		
DATE	DESCRIPTION	



JACKSON PARK

ROAD

C-103

SCALE: 1"=30'

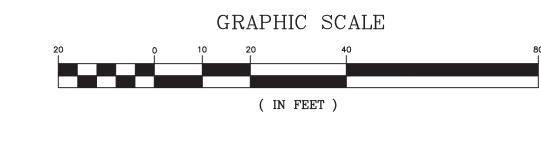
PROJECT NUMBER: DATE:

23199 1/24

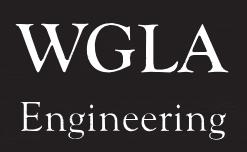
LEGEND:

PROPOSED 2" MILL & SINGLE SEAL & 1.5" ASPHALT OVERLAY (S9.5C)









2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS			
DATE	DESCRIPTION		



PROJECT NUMBER: DATE:

SCALE: 1"=20'

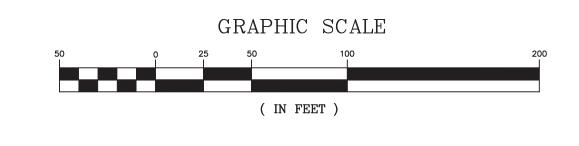
23199 1/24



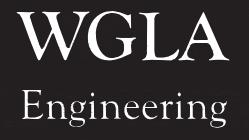
C-104

LEGEND:

PROPOSED REMOVE EXISTING ASPHALT/IMPERVIOUS, RECONDITION STONE SUBGRADE AND INSTALL 2" OF NEW ASPHALT







### 2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS		
DATE	DESCRIPTION	



PROJECT NUMBER: DATE:

23199 1/24



C-105

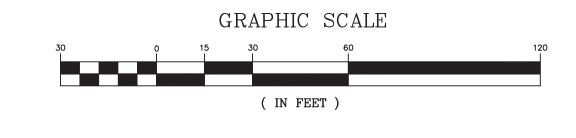
LEGEND:



PROPOSED FULL DEPTH ASPHALT PATCH

PROPOSED SEAL COAT

SCALE: 1"=50'





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### 2024 Jackson Park and County **Facilities** Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS		
DATE	DESCRIPTION	



PROJECT NUMBER: DATE:

SCALE: 1"=30'

23199 1/24



C-106

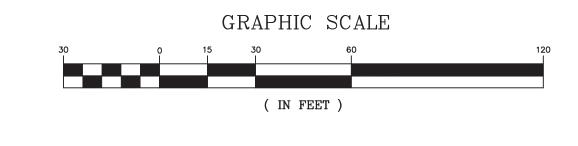
LEGEND:

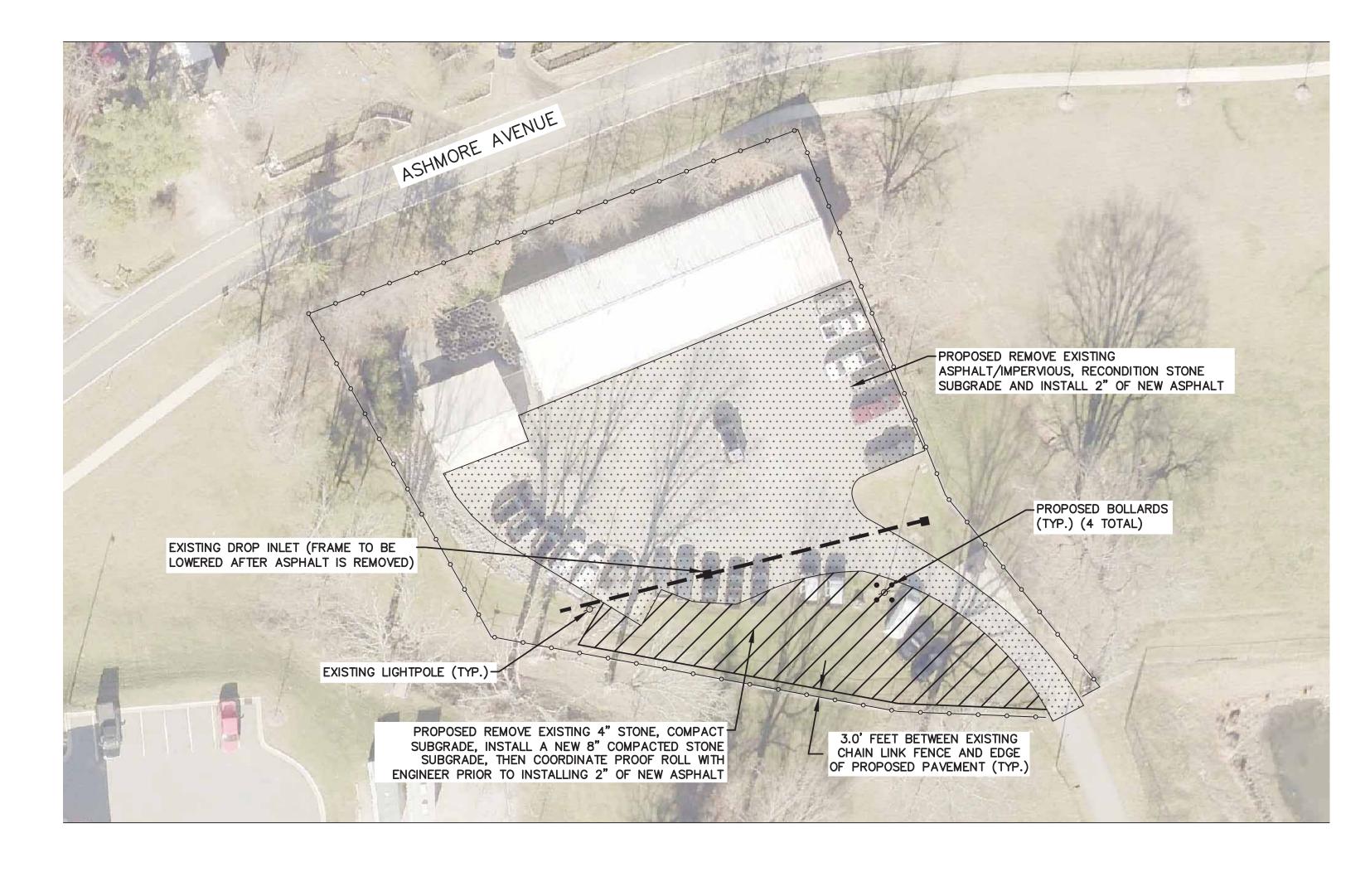
PROPOSED REMOVE EXISTING ASPHALT, RECONDITION STONE SUBGRADE AND INSTALL 2" OF NEW ASPHALT



• • • • • • • • • •

PROPOSED DOUBLE SEAL

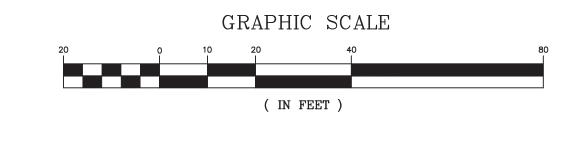


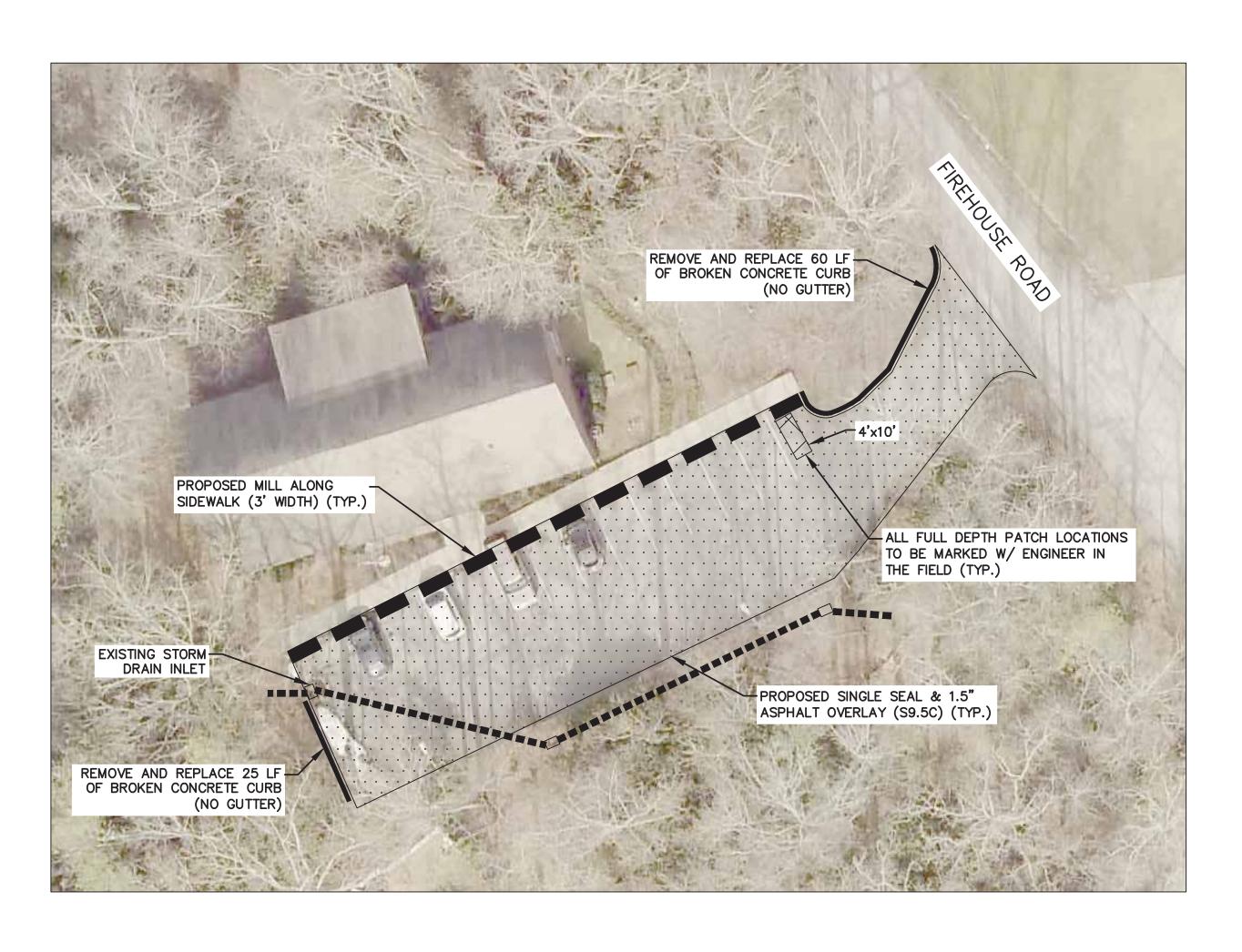


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NOKTH	2024 Jackson Park and County Facilities Paving
	HENDERSON COUNTY NORTH CAROLINA

	Know what's Call be
LEGEND:	PROJECT NUMBE DATE:
PROPOSED REMOVE EXISTING 4" STONE, COMPACT SUBGRADE, INSTALL A NEW 8" COMPACTED STONE SUBGRADE, THEN COORDINATE PROOF ROLL WITH ENGINEER PRIOR TO INSTALLING 2" OF NEW ASPHALT	HENDI COUNTY
PROPOSED REMOVE EXISTING ASPHALT/IMPERVIOUS, RECONDITION STONE SUBGRADE AND INSTALL 2" OF NEW ASPHALT	C-'
	SCALE: 1"=30'

	CARO Desperine 900 % 1/1/1 William K. Bus 07C03EBF740148D 22989 07C03EBF740148D 22989 07C03EBF740148D	4	
	REVISIONS		
DATE	DESCRIPTION		
	Know what's below. Call before you di	g.	
PROJE DATE:	CT NUMBER:	23199 1/24	
HENDERSON COUNTY GARAGE			
	C-107		





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### 2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS				
DATE	DESCRIPTION			

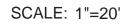


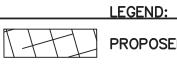
PROJECT NUMBER: DATE:

23199 1/24



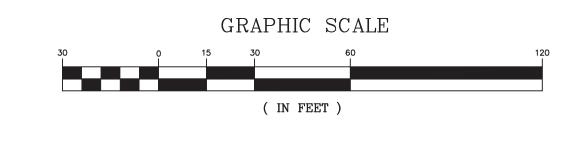


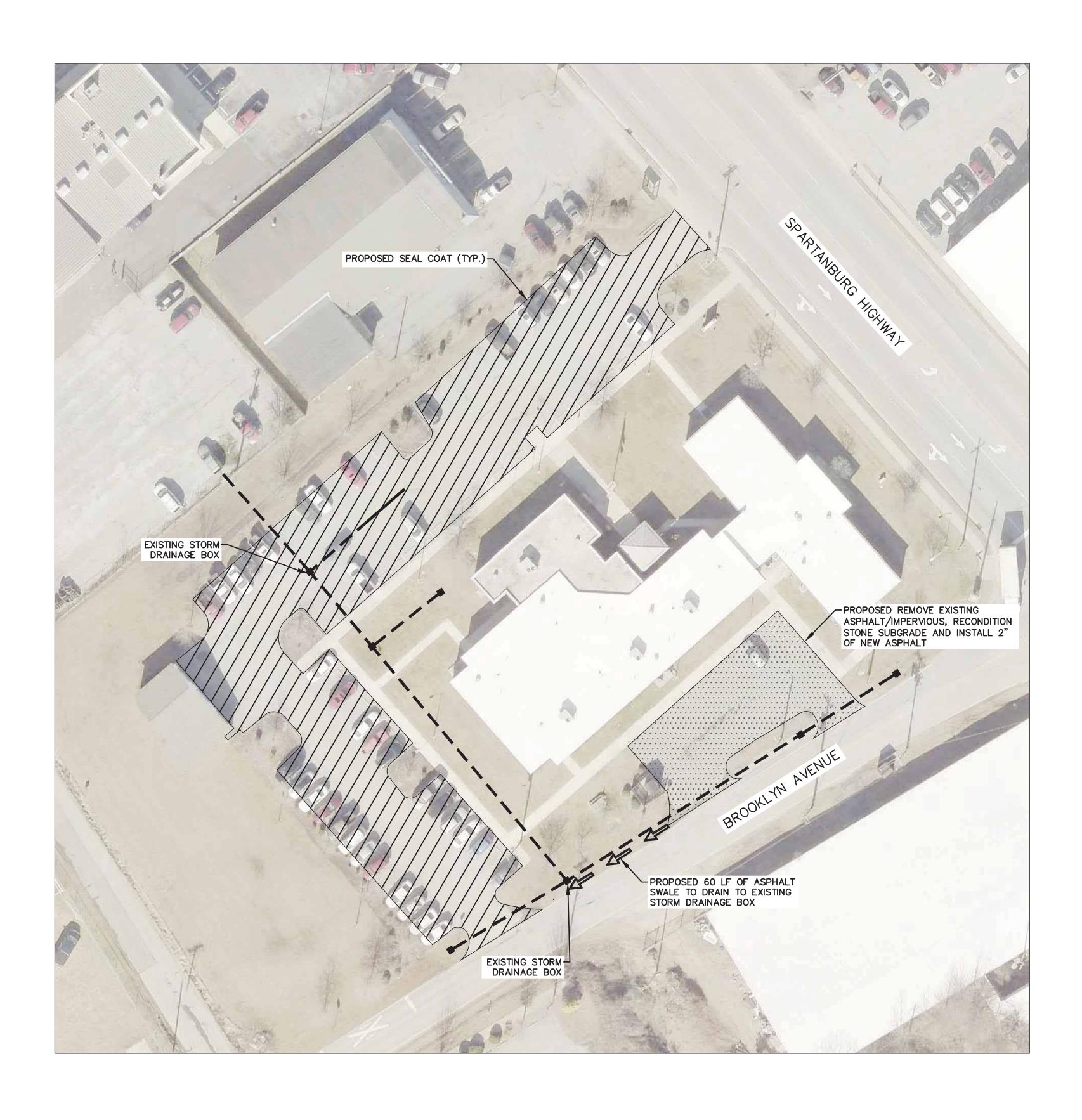




PROPOSED FULL DEPTH ASPHALT PATCH

SINGLE SEAL & 1.5" ASPHALT OVERLAY (S9.5C)







### 2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA

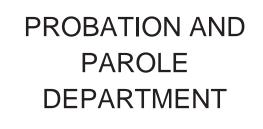


REVISIONS				
DESCRIPTION				



PROJECT NUMBER: DATE:

23199 1/24



C-109

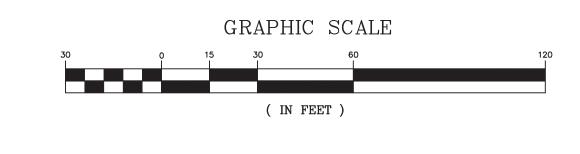
SCALE: 1"=30'

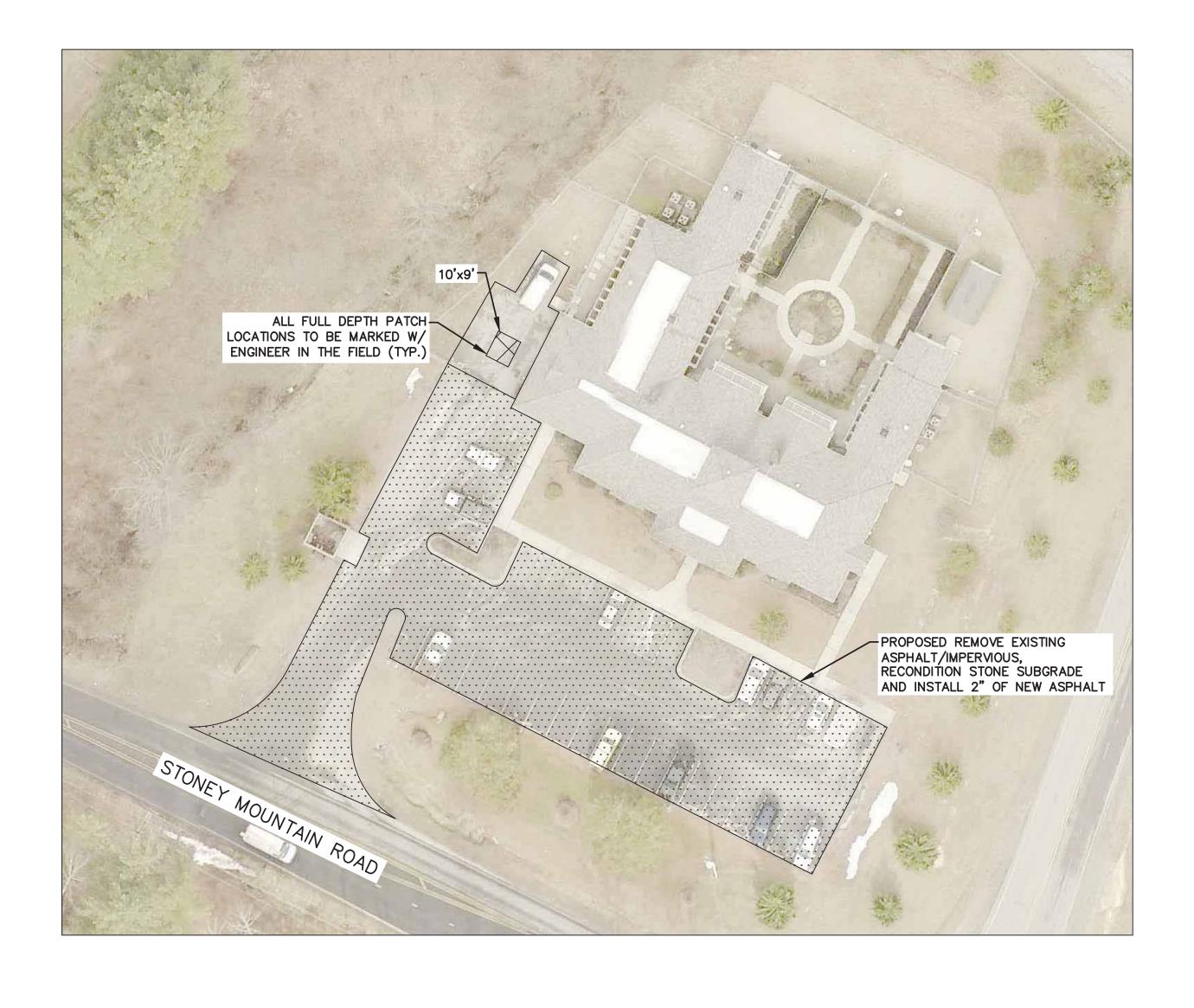
LEGEND:

PROPOSED SEAL COAT



PROPOSED REMOVE EXISTING ASPHALT/IMPERVIOUS, RECONDITION STONE SUBGRADE AND INSTALL 2" OF NEW ASPHALT

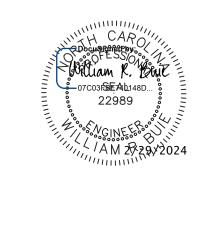






### 2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA



REVISIONS				
DATE	DESCRIPTION			



PROJECT NUMBER: DATE:

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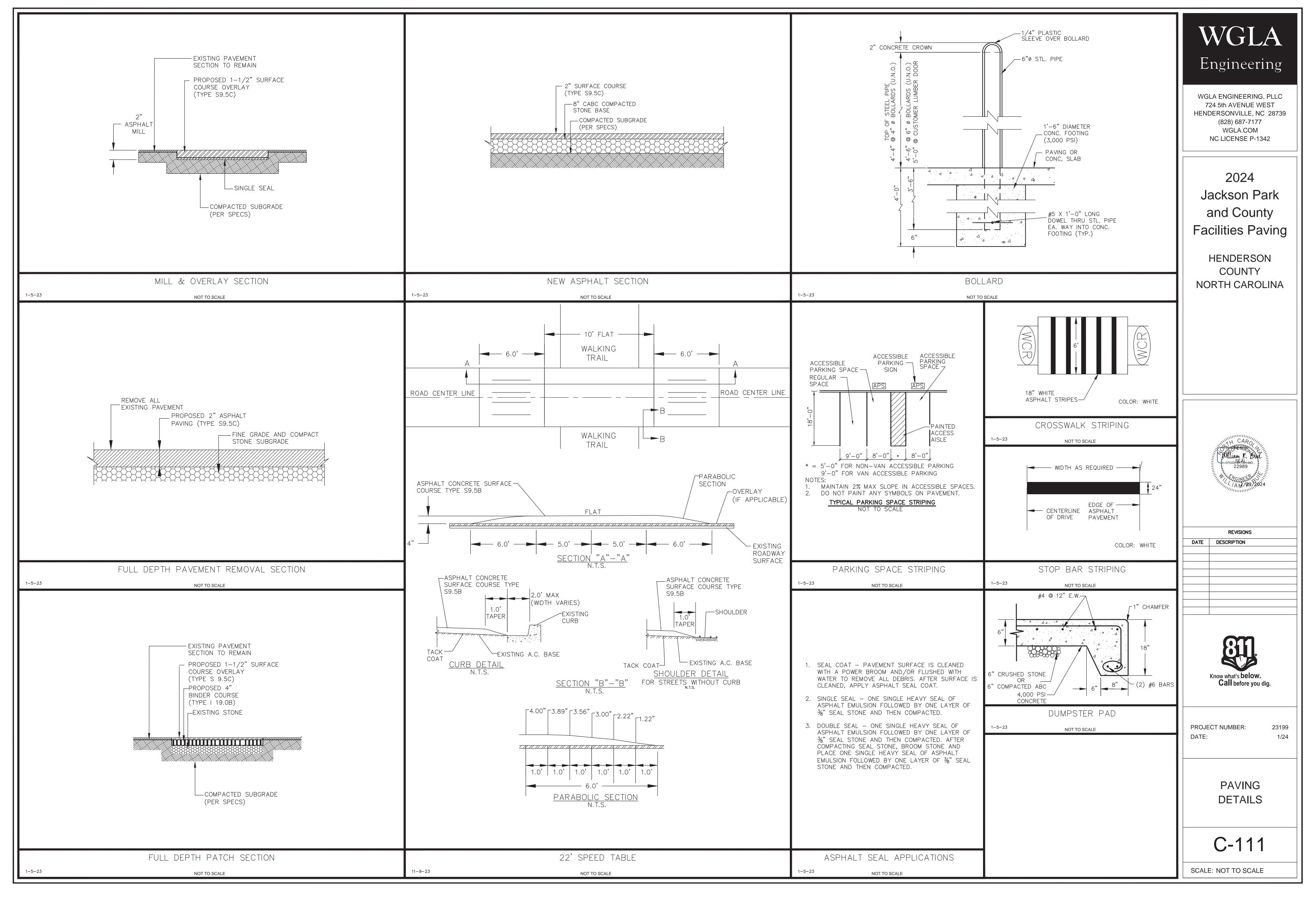


C-110

SCALE: 1"=30'

	LEGEND:				
LTTT+	PROPOSED	FULL	DEPTH	ASPHALT	PATCH

PROPOSED REMOVE EXISTING ASPHALT/IMPERVIOUS, RECONDITION STONE SUBGRADE AND INSTALL 2" OF NEW ASPHALT 



#### GENERAL CONSTRUCTION NOTES

1. ALL WORK AND CONSTRUCTION ACTIVITIES ON THE PROJECT SITE SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS AND REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A SAFE WORK SITE.

2. THE ENGINEER AND OWNER RESERVE THE RIGHT TO MODIFY PROJECT WORK ITEMS (INCLUDING GRADING) AS DEEMED NECESSARY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT. THE CONTRACTOR MAY SUGGEST ADJUSTMENTS TO GRADING OR OTHER WORK ITEMS TO BE APPROVED BY THE ENGINEER OR OWNER.

3. THE CONTRACTOR SHALL COMPLY WITH THE GEOTECHNICAL REPORT FOR THE PLACEMENT OF FILL AND COMPACTION REQUIREMENTS. IF NO REPORT IS AVAILABLE, THE FOLLOWING MINIMUM STANDARDS SHALL APPLY:

#### <u>PLACEMENT OF FILL:</u>

A. PLACE THE MATERIAL IN SUCCESSIVE HORIZONTAL LAYERS NOT EXCEEDING 8" FOR THE FULL WIDTH OF THE CROSS SECTION.B. FILL SHALL BE PLACED ONLY WHEN IT IS WITHIN 3% OF ITS OPTIMUM MOISTURE CONTENT AS DETERMINED BY A

STANDARD PROCTOR ASTM D 698. C. EACH LAYER OF FILL SHALL BE SPREAD EVENLY AND SHALL BE COMPACTED TO ITS SPECIFIED DENSITY AS DETERMINED BY STANDARD PROCTOR ASTM D 698 BEFORE NEW LAYERS ARE PLACED AND COMPACTED.

D. SLOPED GROUND SURFACES STEEPER THAN ONE VERTICAL TO FOUR HORIZONTAL, ON WHICH FILL IS TO BE PLACED, SHALL BE STEPPED OR BENCHED SUCH THAT FILL MATERIAL WILL BOND TO THE EXISTING SURFACES.
E. EMBANKMENT SLOPES SHALL BE CONSTRUCTED BY FILLING ONE (1) FOOT BEYOND THE PROPOSED FINISHED SLOPE SURFACE FOR EACH LIFT. COMPACTION EQUIPMENT SHALL WORK TO THE EDGE OF EACH LIFT. AFTER THE ENTIRE FILL IS PLACED AND COMPACTED, THE OUTSIDE FOOT OF THE SLOPE SHALL BE TRIMMED TO THE DESIGN SLOPE WITH A DOZER.

UNLESS INDICATED ON THE DRAWINGS, NO FILL SLOPES SHALL BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.

#### COMPACTION:

A. STRUCTURAL FILL UNDER BUILDINGS AND WITHIN 10' OF BUILDING PERIMETER, 100% OF STANDARD PROCTOR THE ENTIRE DEPTH OF FILL.
B. UNDER WALKS, DRIVES, PADS, AND PAVED AREAS: 95% OF STANDARD PROCTOR EXCEPT 100% OF STANDARD PROCTOR

IN THE UPPER 2'. C. UNDER LAWNS AND PLANTING AREAS BEYOND 10' FROM BUILDING: 95% OF STANDARD PROCTOR.

D. BACKFILL IN TRENCHES: COMPLY WITH COMPACTION REQUIREMENTS FOR THE AREA THROUGH WHICH THE TRENCH RUNS. 4. ALL EROSION CONTROL DEVICES SUCH AS SILT FENCES, DIVERSIONS, SEDIMENT TRAPS, ETC. SHALL BE MAINTAINED IN WORKABLE CONDITIONS FOR THE LIFE OF THE PROJECT AND SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT ONLY WITH THE ENGINEER'S APPROVAL. SEE THE NPDES REQUIREMENTS ON THIS PLAN SHEET FOR MORE DETAIL. IF DURING THE LIFE OF THE PROJECT A STORM CAUSES SOIL EROSION WHICH CHANGES THE FINISHED GRADES OR CREATES "GULLIES" AND "WASHED AREAS", THESE SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST. THE CONTRACTOR SHALL ADHERE TO THE APPROVED EROSION CONTROL PLAN AND TAKE ANY ADDITIONAL MEASURES NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.

#### 4. DISPOSABLE MATERIALS:

A. CLEARING AND GRUBBING WASTES SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT THEIR EXPENSE, UNLESS OTHERWISE SPECIFIED.

B. SOLID WASTES TO BE REMOVED SUCH AS SIDEWALKS, CURBS, PAVEMENT, ETC. MAY BE PLACED IN SPECIFIED DISPOSAL AREAS IF PERMITTED BY THE APPROPRIATE AGENCIES AND APPROVED BY THE OWNER. THIS MATERIAL SHALL BE SPREAD AND MIXED WITH DIRT ELIMINATING ALL VOIDS. THIS MATERIAL SHALL HAVE A MINIMUM COVER OF 2'. THE CONTRACTOR SHALL MAINTAIN SPECIFIED COMPACTION REQUIREMENTS IN THESE AREAS. WHEN DISPOSAL SITES ARE NOT PROVIDED, THE CONTRACTOR SHALL REMOVE THIS WASTE FROM THE SITE AND PROPERLY DISPOSE OF IT AT THEIR EXPENSE.
C. ABANDONED UTILITIES SUCH AS CULVERTS, WATER PIPE, HYDRANTS, CASTING, PIPE APPURTENANCES, UTILITY POLES, ETC. SHALL BE THE PROPERTY OF THE SPECIFIED UTILITY AGENCY OR COMPANY HAVING JURISDICTION. BEFORE THE CONTRACTOR CAN REMOVE, DESTROY, SALVAGE, RE-USE, SELL OR STORE FOR THEIR OWN USE ANY ABANDONED UTILITY, THEY MUST PRESENT TO THE OWNER WRITTEN PERMISSION FROM THE UTILITY INVOLVED.
D. UNLESS OTHERWISE NOTED ON THE PLANS, BURNING WILL NOT BE ALLOWED ON THIS PROJECT. SHOULD BURNING BE ALLOWED BY THE OWNER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS (AT THEIR EXPENSE)

ALLOWED BT THE OWNER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSART PERMITS (AT THEIR EXPENSE) AND FOLLOW ALL APPLICABLE RULES AND REGULATIONS. 6. UNLESS OTHERWISE SPECIFIED, ALL BASE, PAVING, CURBING AND OTHER CONCRETE WORK SHALL CONFORM TO THE LOCAL

MUNICIPALITY OR NCDOT SPECIFICATIONS FOR CONSTRUCTION. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO THE LOCAL THE LOCAL UTILITY REQUIREMENTS AND/OR THE NCDENR MINIMUM STANDARDS.

7. IN THE EVENT EXCESSIVE GROUND WATER OR SPRINGS ARE ENCOUNTERED WITHIN THE LIMITS OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL NECESSARY UNDERDRAINS AND STONE AS DIRECTED BY THE ENGINEER. ALL WORK SHALL BE PAID BASED UPON THE UNIT PRICES UNLESS OTHERWISE SPECIFIED.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ADJUSTMENT OF ALL UTILITY SURFACE ACCESSES (INCLUDING MANHOLE COVERS, VALVE BOXES, ETC.) WHETHER HE PERFORMS THE WORK OR THE UTILITY COMPANY PERFORMS THE WORK.

9. THE CONTRACTOR SHALL CONTROL ALL "DUST" BY PERIODIC WATERING AND SHALL PROVIDE ACCESS AT ALL TIMES FOR PROPERTY OWNERS WITHIN THE PROJECT AND FOR EMERGENCY VEHICLES. ALL OPEN DITCHES AND HAZARDOUS AREAS SHALL BE CLEARLY MARKED IN ACCORDANCE WITH OSHA REGULATIONS.

10. ALL AREAS OF EXPOSED SOIL SHALL BE SEEDED, FERTILIZED AND MULCHED ACCORDING TO THE SPECIFICATIONS. THE FINISHED SURFACE SHALL BE TO GRADE AND SMOOTH, FREE OF ALL ROCKS LARGER THAN 3", EQUIPMENT TRACKS, DIRT CLODS, BUMPS, RIDGES, AND GOUGES PRIOR TO SEEDING. THE SURFACE SHALL BE LOOSENED TO A DEPTH OF 1"+/- TO ACCEPT SEED. THE CONTRACTOR SHALL NOT PROCEED WITH SEEDING OPERATIONS WITHOUT FIRST OBTAINING THE ENGINEER'S APPROVAL OF THE GRADED SURFACE. ALL SEEDING SHALL BE PERFORMED BY A MECHANICAL "HYDRO-SEEDER". THE ENGINEER PRIOR TO SEEDING MUST APPROVE HAND SEEDING ON ANY AREA.

11. GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE OF OPTIMUM GERMINATION SEASON WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE GROUND COVER.

#### GENERAL CONSTRUCTION NOTES

12-20-2022

NOT TO SCALE

## WGLA Engineering

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2024 Jackson Park and County Facilities Paving

HENDERSON COUNTY NORTH CAROLINA

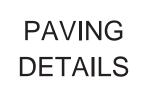


REVISIONS				
DATE	DESCRIPTION			



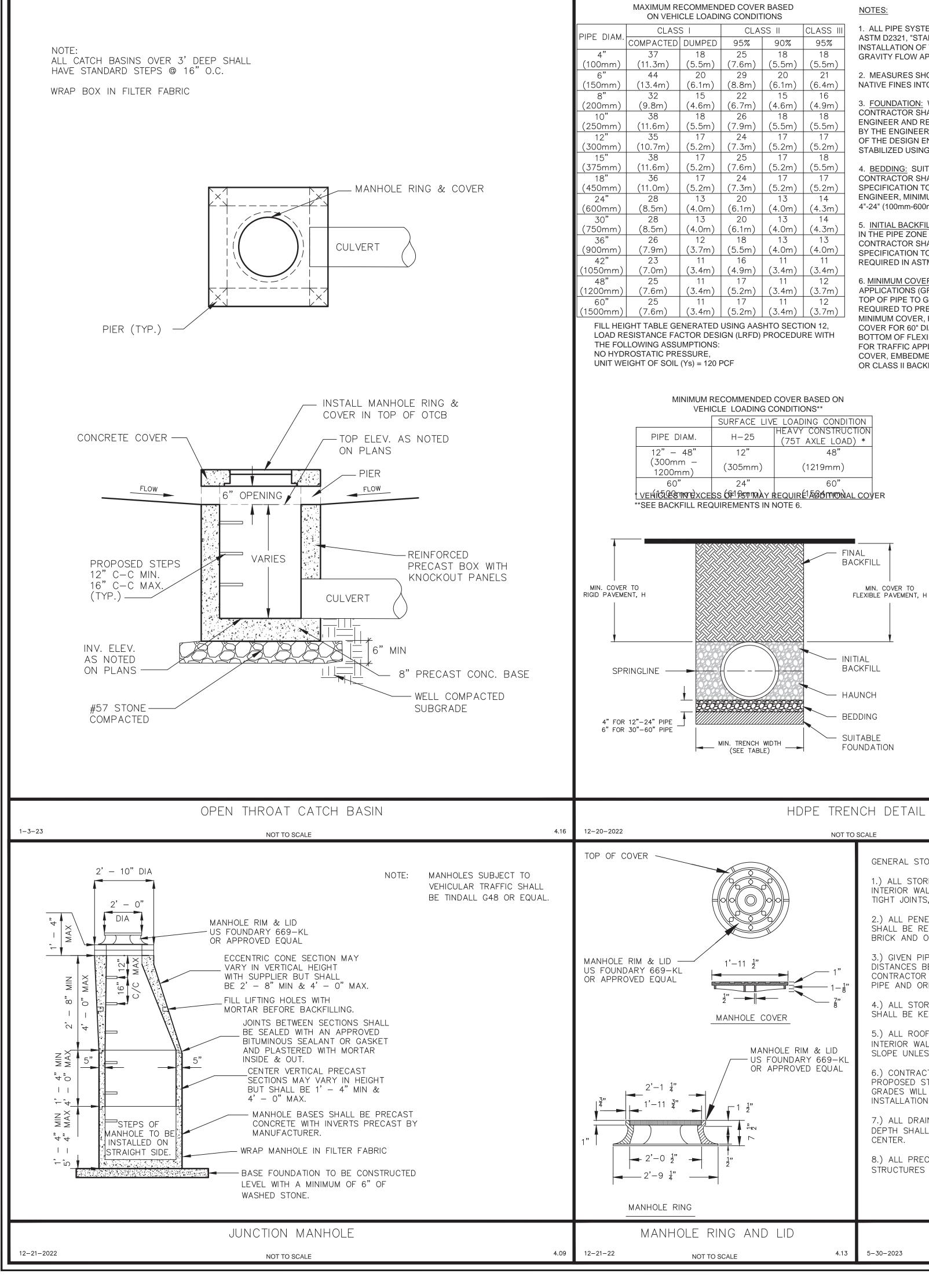
PROJECT NUMBER: DATE:

23199 1/24



# C-112

SCALE: NOT TO SCALE



MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS					
CLAS	S I	CLAS	SS II	CLASS III	
OMPACTED	DUMPED	95%	90%	95%	
37	18	25	18	18	
(11.3m)	(5.5m)	(7.6m)	(5.5m)	(5.5m)	
44	20	29	20	21	
(13.4m)	(6.1m)	(8.8m)	(6.1m)	(6.4m)	
32	15	22	15	16	
(9.8m)	(4.6m)	(6.7m)	(4.6m)	(4.9m)	
38	18	26	18	18	
(11.6m)	(5.5m)	(7.9m)	(5.5m)	(5.5m)	
35	17	24	17	17	
(10.7m)	(5.2m)	(7.3m)	(5.2m)	(5.2m)	
38	17	25	17	18	
(11.6m)	(5.2m)	(7.6m)	(5.2m)	(5.5m)	
36	17	24	17	17	
(11.0m)	(5.2m)	(7.3m)	(5.2m)	(5.2m)	
28	13	20	13	14	
(8.5m)	(4.0m) 13	(6.1m)	(4.0m)	(4.3m)	
28		20	13	14	
(8.5m)	(4.0m)	(6.1m)	(4.0m)	(4.3m)	
26	12	18	13	13	
(7.9m)	(3.7m)	(5.5m)	(4.0m)	(4.0m)	
23	11	16	11		
(7.0m)	(3.4m)	(4.9m)	(3.4m)	(3.4m) 12	
25	11	17	11		
(7.6m)	(3.4m)	(5.2m)	(3.4m)	(3.7m) 12	
25		17	11		
(7.6m)	(3.4m)	(5.2m)	(3.4m)	(3.7m)	

VEHICLE LOADING CONDITIONS**				
SURFACE LIVE LOADING CONDITION				
PIPE DIAM.	HEAVY CONSTRUCTION (75T AXLE LOAD) *			
12" - 48"	12"	48"		
(300mm – 1200mm)	(305mm)	(1219mm)		

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

REC	OMME	ENDED	MINII	MUM TREN	ICH WID	THS
			NALN I	TOENOU		

	MIN. TRENCH WIDTH
4"	21"
(100mm) 6"	(533mm) 23"
6"	23"
(150mm) 8"	(584mm) 26"
$\binom{200}{2}$	$\frac{26}{(660mm)}$
(200mm) 10"	(660mm) 28"
(250  mm)	20 (711mm)
(250mm) 12"	(711mm) 30"
(300mm)	(762mm) 34"
(300mm) 15"	34"
(375mm) 18"	(864mm) 39"
<u>ِ</u> 18" ر	39"
(450mm) 24"	(991mm) 48"
24"	48"
(600mm) 30"	(1219mm) 56"
$30^{\prime\prime}$	56″
(750mm) 36"	(1422mm) 64"
30 (900mm)	64 (1626mm)
(900mm) 42"	(1626mm) 72"
(1050mm)	(1829mm)
(1050mm) 48"	(1829mm) 80"
(1200mm) 60"	(2032mm) 96"
	96"
(1500mm)	(2438mm)

NOT TO	SCALE 3.08	3-ALL AREAS TO BE SEEDED OR PLATED SHALL E CREATING FISSURES IN A CRISS-CROSS PATTERN GLAZE THE SIDE WALLS OF THE FISSURES. SITE
OVER	GENERAL STORMWATER NOTES:	NOT BE ACCEPTABLE. THE DEPTH OF SOIL PREPA OF THE REVIEW AGENCY. ONCE TILLED OR RIPPED RETURNED TO FINAL GRADE. PH MODIFIERS AND/C
	1.) ALL STORMWATER PIPES SHALL BE HDPE WITH SMOOTH INTERIOR WALL, WITH BELL AND SPIGOT ENDS AND SOIL TIGHT JOINTS, UNLESS OTHERWISE NOTED ON PLANS.	ADDED DURING THE SOIL PREPARATION PROCEDUR 4-ALL STONES LARGER THAN 3" ON ANY SIDE, S DURING THE BED PREPARATION SHALL BE REMOVE
	2.) ALL PENETRATIONS INTO STORMWATER STRUCTURES SHALL BE REPAIRED PROPERLY INSIDE AND OUTSIDE WITH BRICK AND OR NON-SHRINK GROUT.	B. AREAS TO BE SEEDED 1-TILL OR DISC THE PREPARED AREAS TO BE SEE ANY SIDE, STICKS, ROOTS, AND OTHER EXTRANEOU
RIM & LID $1'-11 \frac{1}{2}"$ ARY 669-KL VED EQUAL $1''-11 \frac{1}{2}"$ $1'' -11 \frac{1}{2}"$ $1'' -11 \frac{1}{2}"$	3.) GIVEN PIPE LENGTHS ARE BASED ON HORIZONTAL DISTANCES BETWEEN STORMWATER STRUCTURES. CONTRACTOR SHALL FACTOR IN SLOPES WHEN ORDERING PIPE AND ORDER ADDITIONAL LENGTH AS NECESSARY.	PROCESS, ADD pH MODIFIERS AND FERTILIZERS AT 2-RECOMPACT THE AREA UTILIZING A CULTIPACKE SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. PROVIDE THE APPROVED SURFACE DRAINAGE. SEI GRADES ARE OBTAINED AND SEEDBED PREPARATIO
Ž MANHOLE COVER	4.) ALL STORMWATER PIPES IN EXCESS OF 20% SLOPE SHALL BE KEYED.	<u>C. AREAS TO BE SPRIGGED, SODDED, AND/OR PLA</u> 1—AT THE TIME OF PLANTING, TILL OR DISC THE F
MANHOLE RIM & LID / US FOUNDARY 669-KL	5.) ALL ROOF LEADERS SHALL BE 8" HDPE SMOOTH INTERIOR WALL (MAY BE PVC/SCH-40) WITH 1.0% MIN SLOPE UNLESS OTHERWISE NOTED ON PLANS.	GRADE. REMOVE ALL STONES LARGER THAN 3" C SURFACE. IF NOT INCORPORATED DURING THE RIF RECOMMENDED SOIL AMENDMENTS.
$-\frac{2'-1}{1'-11}\frac{4''}{4'}$	6.) CONTRACTOR TO ENSURE THAT ALL EXISTING AND PROPOSED STORM DRAINAGE STRUCTURES, PIPES AND GRADES WILL PROVIDE POSITIVE DRAINAGE PRIOR TO INSTALLATION.	2-RECOMPACT THE AREA UTILIZING A CULTIPACKE INSTALL SPRIGS, SOD AND PLANTS AS DIRECTED I TACK AS SPECIFIED.
$-\frac{1-11}{2}$	7.) ALL DRAINAGE STRUCTURES GREATER THAN 4' IN	IV. CLOSEOUT
	DEPTH SHALL HAVE ACCESS TO STEPS INSTALLED 16" ON CENTER.	1-REFER TO NCG01 REQUIREMENTS AND CONSTRU-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8.) ALL PRECAST "WAFFLE BOX" STORM DRAINAGE STRUCTURES TO HAVE A MAXIMUM DEPTH OF 10'.	2-CONTRACTOR RESPONSIBLE FOR ESTABLISHING PERMIT OR ACCEPTANCE BY OWNER. GROUND COV HAVE BEEN STABILIZED WITH A PERMANENT PEREN CONTIGUOUS BARE AREAS GREATER THAN ONE SC ENGINEER OR EROSION CONTROL INSPECTOR.
MANHOLE RING		3-MULTIPLE SEEDING EFFORTS BY THE CONTRACTOR ESTABLISH SUITABLE GROUND COVER.
MANHOLE RING AND LID	STORMWATER NOTES	SEE
NOT TO SCALE 4.13	5-30-2023 NOT TO SCALE 4.20	11–15–23

#### SEEDING SPECIFICATIONS TEMPORARY COVER

#### LIME & FERTILIZER CONTRACTOR SHALL FURNISH AND APPLY LIME CONDITIONS FOR SEED GERMINATION.

A NORTH CAROLINA DEPARTMENT OF AGRICULTU SEEDED. RECOMMENDED FERTILIZER AND pH AD. BASED ON THE TEST RESULTS.

THESE MATERIALS SHALL BE SPREAD UNIFORMLY DEPTH OF 3 - 4 INCHES WITH EQUIPMENT APPR

TEMPORARY COVER SEEDING - CONTRACTOR SHALL SELECT A QUICK AREA, THE TIME OF PLANTING, AND THAT WILL

MAY THROUGH AUGUST SUNDANGRASS 50 LB / AC OR GERMAN MILLET 40 LB / AC

SEPT. THROUGH APRIL

120 LB / AC

ALL SEEDS SHALL HAVE BEEN TESTED NOT MORE CONTRACTOR SHALL APPLY SEED UNIFORMLY BY

HYDRAULICALLY. A SLURRY MIXTURE OF WATER, FERTILIZER, SEED

#### C. MULCHING

RYEGRAIN

IN ORDER TO REDUCE DAMAGE FROM WATER RUN MATERIAL SHALL BE FURNISHED WHEN TEMPORAR -DRY UNCHOPPED, UNWEATHERED SMALL GRAIN ACRE

-WOOD FIBER (EXCELSIOR) -WOOD CELLULOSE FIBER - 500 LBS / ACRE WI -JUTE MATTING

#### II. PERMANENT COVER

A. CONTRACTOR SHALL FURNISH AND APPLY

1- A NORTH CAROLINA DEPARTMENT OF AGRICU SEEDED. RECOMMENDED FERTILIZER AND pH ADJ BASED ON THE TEST RESULTS.

2- 2.3 LBS / 1000 SF OF KENTUCKY 31 TALL IN THE MANNER DESCRIBED ABOVE IN PARTS 1,

APPLY NURSE CROP AS FOLLOWS: MAY 1 – AUG 15 – 10 LBS / AC GERMAN MIL - 15 LBS / AC SUNDANGRA

AUG 15 - MAY 1 - 40 LBS / AC RYE (GRAIN B. SEEDING DATES: KY.31 TALL FESCUE (BELOW 2500' ELEV) ÀUG 20 - SEPT 15

MARCH 1 - MAY 1 (ABOVE 2500' ELEV) JULY 15 - AUG 30

MARCH 5 - MAY 15 C. MULCHING

APPLY 4000 LB / AC OF GRAIN STRAW SUITABL MANUFACTURERS RECOMMENDATIONS

III. SOIL PREPARATION

A. GENERAL REQUIREMENTS 1-PREPARATION FOR PRIMARY/PERMANENT STAB WITHIN THE PREPARATION AREA IS COMPLETE. TO COMPLETION OF CONSTRUCTION AND INSTALL

2-A NORTH CAROLINA DEPARTMENT OF AGRICUL BE SEEDED, SPRIGGED, SODDED OR PLANTED. INCORPORATED INTO THE PREPARED AREAS AND

3-ALL AREAS TO BE SEEDED OR PLATED SHALL ROSS PATTERI SSURES. SITE OF SOIL PRE LLED OR RIPP ODIFIERS AND, TION PROCEDU

	WGLA
APPLY LIME AND FERTILIZER TO THE SOIL AS REQUIRED TO PROVIDE SATISFACTORY I.	Engineering
F AGRICULTURE SOILS TEST OR EQUAL SHALL BE OBTAINED FOR ALL AREAS TO BE AND pH ADJUSTING PRODUCTS SHALL BE INCORPORATED INTO APPLICABLE AREAS	WGLA ENGINEERING, PLLC
D UNIFORMLY OVER THE AREA TO BE PLANTED. THE SOIL SHALL BE TILLED TO A IPMENT APPROVED BY THE ENGINEER.	724 5th AVENUE WEST HENDERSONVILLE, NC 28739
LECT A QUICK GROWING GRASS WITH HIGH SEEDING VIGOR THAT IS SUITED TO THE THAT WILL NOT INTERFERE WITH PLANT TO BE SOWN LATER FOR PERMANENT COVER.	(828) 687-7177 WGLA.COM NC LICENSE P-1342
AC AC	
AC TED NOT MORE THAN 6 MONTHS PRIOR TO THE DATE OF SEEDING. NIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR TILIZER, SEED AND CELLULOSE FIBER MULCH IS ACCEPTABLE ON THIS PROJECT.	2024 Jackson Park and County
M WATER RUN-OFF AND IMPROVE MOISTURE CONDITIONS FOR SEEDLINGS, A MULCH	Facilities Paving
EN TEMPORARY SEEDING IS TO BE DONE. ACCEPTABLE MATERIALS ARE: SMALL GRAIN STRAW OR HAY FREE OF SEEDS OF COMPETING PLANTS $-1-2$ TONS /	HENDERSON
BS / ACRE WITHOUT STRAW	COUNTY NORTH CAROLINA
AND APPLY	
T OF AGRICULTURE SOILS TEST OR EQUAL SHALL BE OBTAINED FOR ALL AREAS TO BE AND pH ADJUSTING PRODUCTS SHALL BE INCORPORATED INTO APPLICABLE AREAS	
IN PARTS 1, 2 AND 3.	
C GERMAN MILLET OR C SUNDANGRASS C RYE (GRAIN)	
	H CAR Decession of the second
TRAW SUITABLY TACKED DOWN. ADD NETTING TO STEEP SLOPES AND STAPLE PER $\mathbb{S}$	
MANENT STABILIZATION SHALL NOT BEGIN UNTIL ALL CONSTRUCTION AND UTILITY WORK COMPLETE. HOWEVER, IT MAY BE NECESSARY TO PREPARE FOR NURSE CROPS PRIOR AND INSTALLATION OF UTILITIES.	REVISIONS DATE DESCRIPTION
OF AGRICULTURE SOILS TEST (OR EQUAL) SHALL BE OBTAINED FOR ALL AREAS TO PLANTED. RECOMMENDED FERTILIZER AND PH ADJUSTING PRODUCTS SHALL BE AREAS AND BACKFILL MATERIAL PER THE TEST.	
LATED SHALL BE TILLED OR RIPPED TO A DEPTH OF 4". RIPPING CONSISTS OF OSS PATTERN OVER THE ENTIRE SURFACE AREA USING AN IMPLEMENT THAT WILL NOT SURES. SITE PREPARATION THAT DOES NOT COMPLY WITH THESE DOCUMENTS SHALL OF SOIL PREPARATION MAY BE ESTABLISHED AS A RANGE BASED ON THE APPROVAL LED OR RIPPED ACCORDING TO THE APPROVED PLAN, ALL AREAS ARE TO BE DIFIERS AND/OR OTHER SOIL AMENDMENTS SPECIFIED IN THE SOIL TESTS CAN BE ION PROCEDURE OR AS DESCRIBED BELOW.	
N ANY SIDE, STICKS, ROOTS, AND OTHER EXTRANEOUS MATERIALS THAT SURFACE ALL BE REMOVED.	
EAS TO BE SEEDED TO A MINIMUM DEPTH OF 4". REMOVE STONES LARGER THAN 3" ON HER EXTRANEOUS MATERIALS THAT SURFACE. IF NOT INCORPORATED IN THE RIPPING	811.
FERTILIZERS AT THE RATE SPECIFIED. A CULTIPACKER ROLLER. THE FINISHED GRADE SHALL BE SMOOTH EVEN SOIL	Know what's below.
FINE TEXTURE. ALL RIDGES AND DEPRESSIONS SHALL BE REMOVED AND FILLED TO DRAINAGE. SEEDING THE GRADED AREAS IS TO BE DONE IMMEDIATELY AFTER FINISHED ED PREPARATION IS COMPLETE.	Call before you dig.
D. AND/OR PLANTED OR DISC THE PREPARED AREA TO A DEPTH OF 4"-6" BELOW THE APPROVED FINISHED GER THAN 3" ON ANY SIDE, STICKS, ROOTS AND OTHER EXTRANEOUS MATERIALS THAT DURING THE RIPPING PROCESS, ADD pH MODIFIERS, FERTILIZER AND OTHER	PROJECT NUMBER: 23199 DATE: 1/24
A CULTIPACKER ROLLER AND PREPARE FINAL GRADES AND DESCRIBED ABOVE. AS DIRECTED IMMEDIATELY AFTER FINE GRADING IS COMPLETE. MULCH, MAT AND/OR	
AND CONSTRUCTION SEQUENCE FOR GROUND STABILIZATION TIMEFRAMES. ESTABLISHING GROUND COVER PRIOR TO CLOSE OUT OF EROSION CONTROL . GROUND COVER WILL BE CONSIDERED ESTABLISHED WHEN ALL EXPOSED SOILS MANENT PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80% WITH NO THAN ONE SQUARE YARD. VEGETATION DENSITY SHALL BE DETERMINED BY THE SPECTOR.	ADD/ALTERNATE STORMWATER DETAILS
THE CONTRACTOR MAY BE REQUIRED FOR PORTIONS OF OR THE ENTIRE SITE TO R.	C-113
SEEDING SPECIFICATIONS	
NOT TO SCALE 3.10	SCALE: NOT TO SCALE