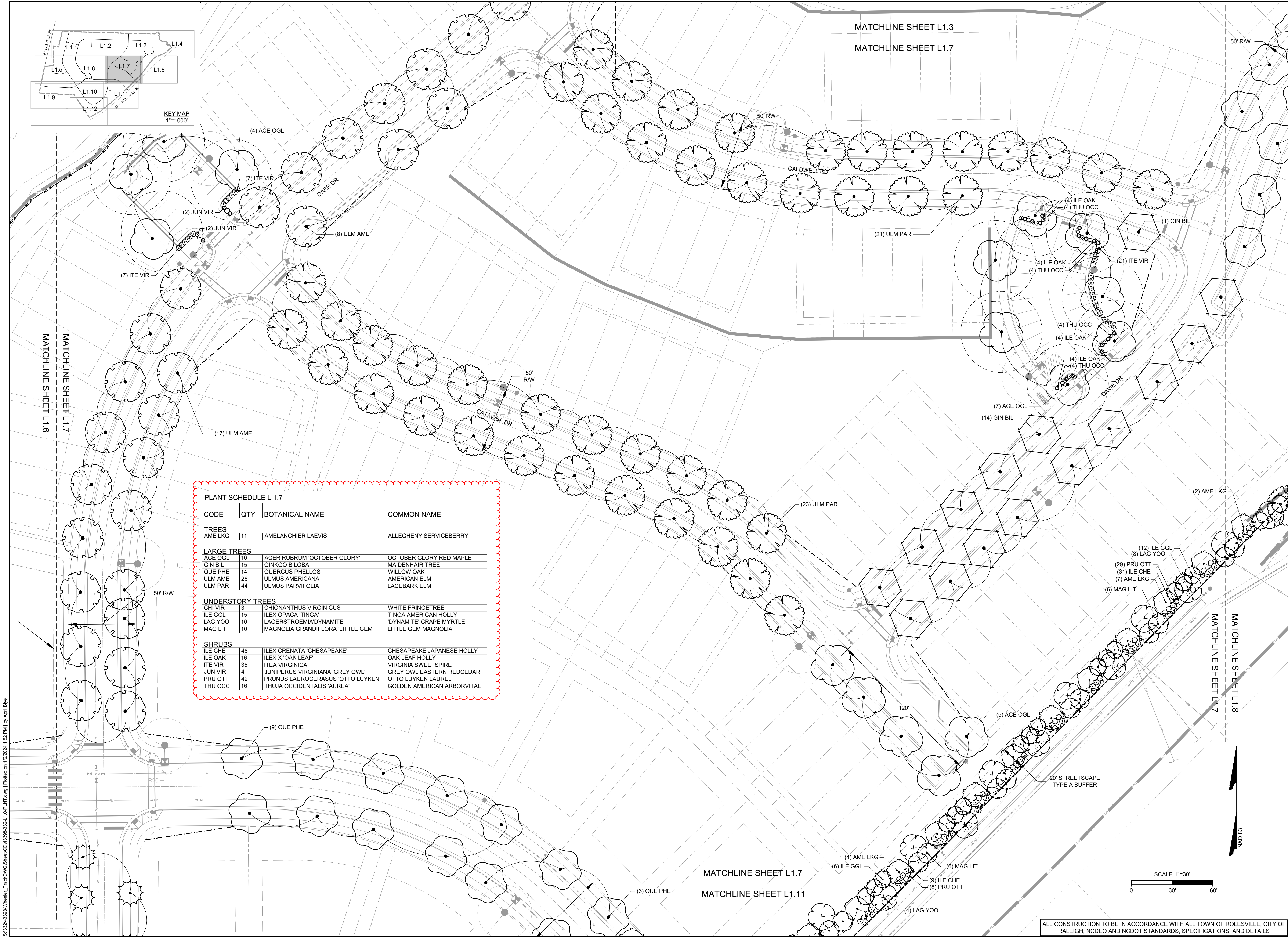




PLANT SCHEDULE L 1.7			
CODE	QTY	BOTANICAL NAME	COMMON NAME
TREES			
AME LKG	11	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY
LARGE TREES			
ACE OGL	16	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE
GIN BIL	15	GINKGO BILOBA	MAIDENHAIR TREE
QUE PHE	14	QUERCUS PHELLOS	WILLOW OAK
ULM AME	26	ULMUS AMERICANA	AMERICAN ELM
ULM PAR	44	ULMUS PARVIFOLIA	LACEBARK ELM
UNDERSTORY TREES			
CHI VIR	3	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
ILE GGL	15	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
LAG YOO	10	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG LIT	10	MAGNOLIA 'GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
SHRUBS			
ILE CHE	48	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
ILE OAK	16	ILEX X 'OAK LEAF'	OAK LEAF HOLLY
ITE VIR	35	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
JUN VIR	4	JUNIPERUS VIRGINIANA 'GREY OWL'	GREY OWL EASTERN REDCEDAR
PRU OTT	42	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL
THU OCC	16	THUJA OCCIDENTALIS 'AUREA'	GOLDEN AMERICAN ARBORVITAE



01/02/2024

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NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

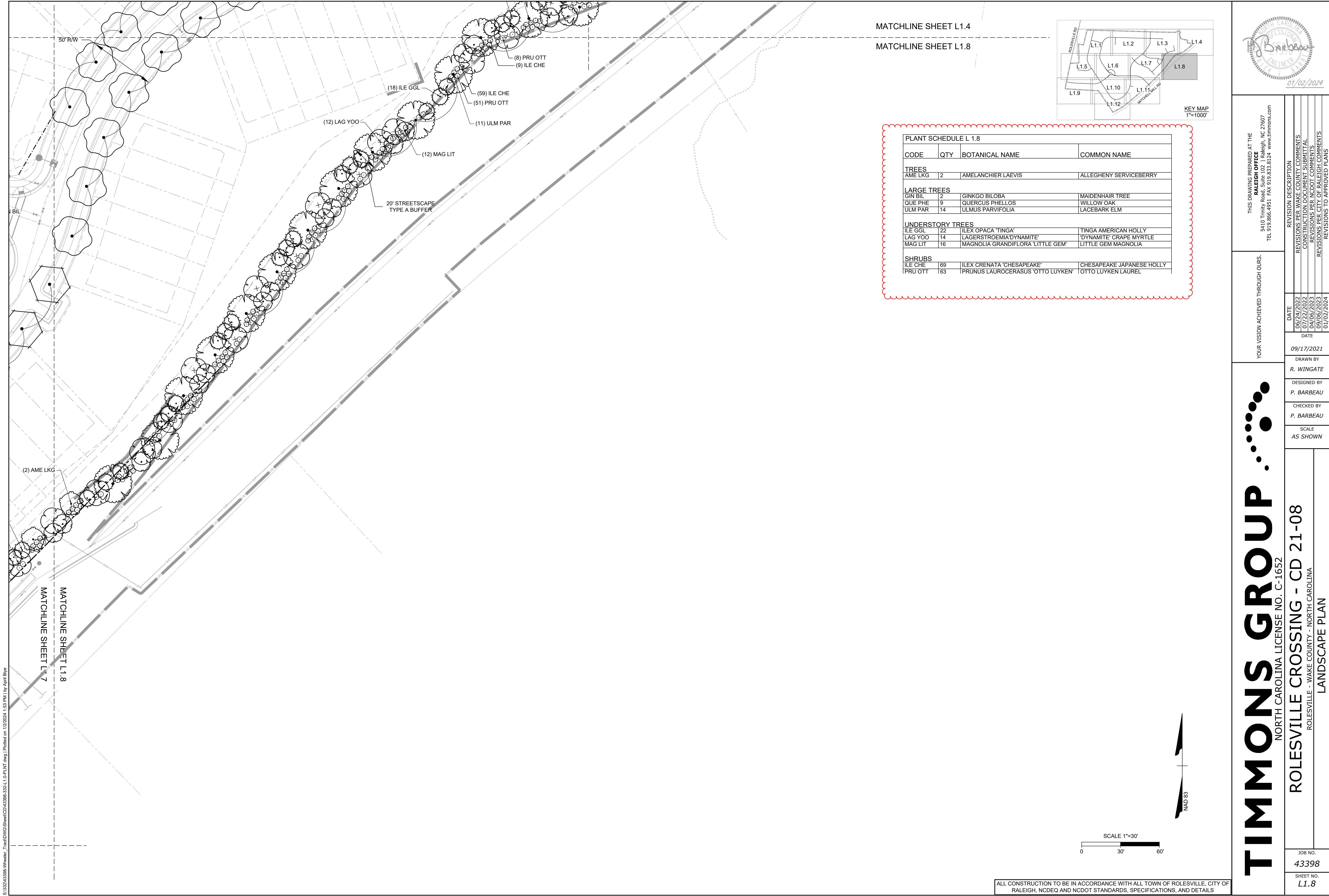
LANDSCAPE PLAN

JOB NO.
43398

SHEET NO.
L1.7

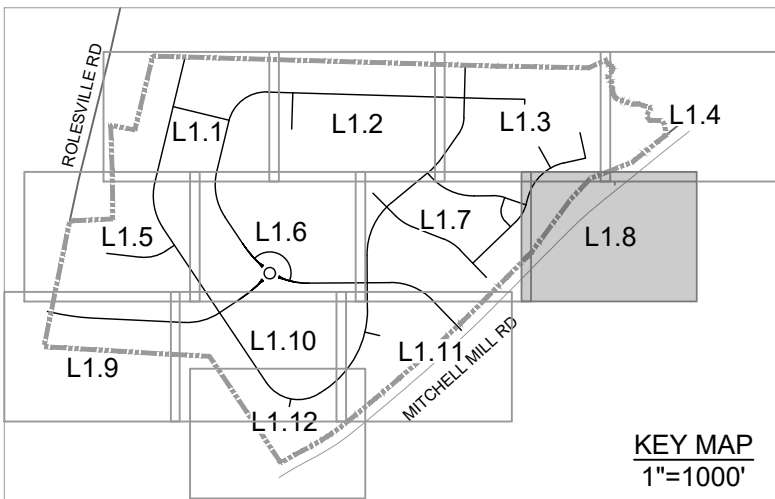
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MATCHLINE SHEET L1.4

MATCHLINE SHEET L1.8



PLANT SCHEDULE L 1.8			
CODE	QTY	BOTANICAL NAME	COMMON NAME
TREES			
AME LKG	2	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY
LARGE TREES			
GIN BIL	2	GINKGO BILOBA	MAIDENHAIR TREE
QUE PHE	9	QUERCUS PHELLOS	WILLOW OAK
ULM PAR	14	ULMUS PARVIFOLIA	LACEBARK ELM
UNDERSTORY TREES			
ILE GGL	22	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
LAG YOO	14	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' GRAPE MYRTLE
MAG LIT	16	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
SHRUBS			
ILE CHE	69	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
PRU OTT	163	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL

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ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

LANDSCAPE PLAN

JOB NO.
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SHEET NO.
L1.8

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DATE

09/17/2021

DRAWN BY

R. WINGATE

DESIGNED BY

P. BARBEAU

CHECKED BY

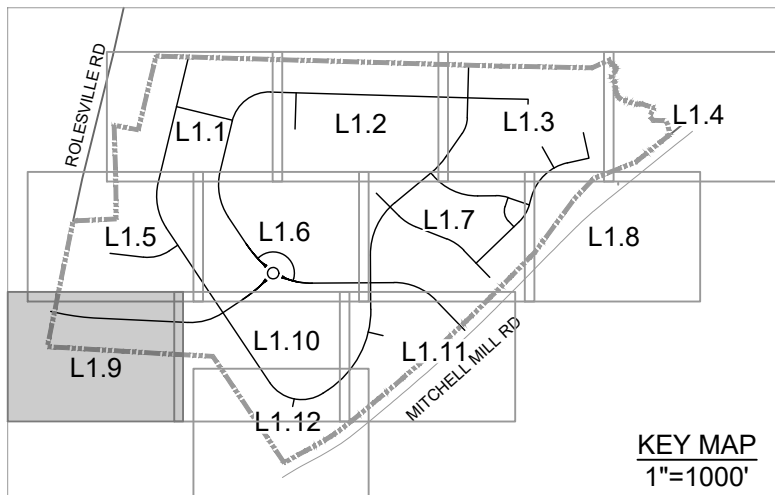
P. BARBEAU

SCALE

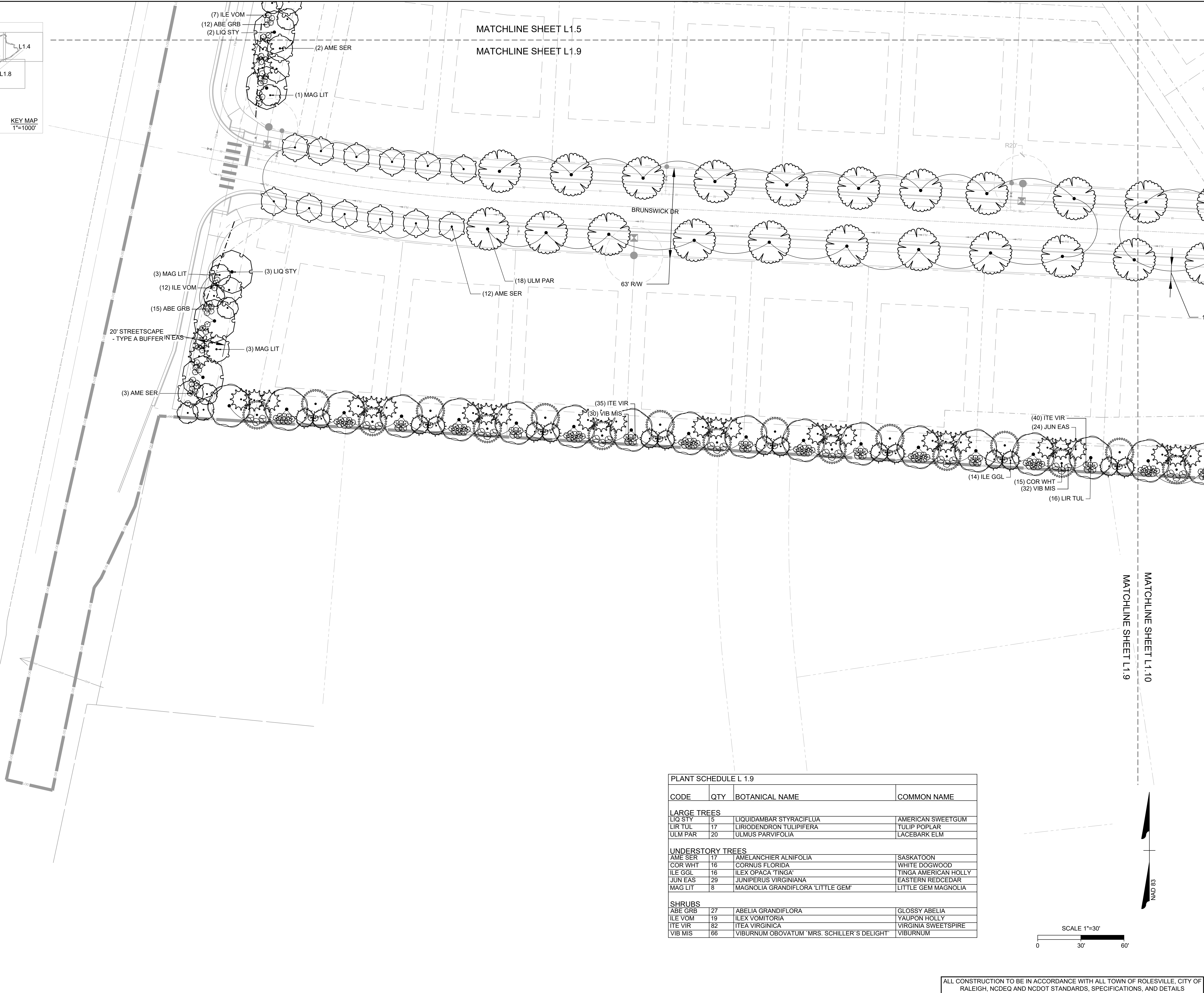
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S:\324\3398-Wheeler_TraffDWG\SheetCD\4398-332.L1.G-PLANT.dwg | Plotted on 1/2/2024 1:53 PM | by April Blye



KEY MAP
1"=1000'



PLANT SCHEDULE L 1.9			
CODE	QTY	BOTANICAL NAME	COMMON NAME
LARGE TREES			
LIQ STY	5	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM
LIR TUL	17	LIRIODENDRON TULIPIFERA	TULIP POPLAR
ULM PAR	20	ULMUS PARVIFOLIA	LACEBARK ELM
UNDERSTORY TREES			
AME SER	17	AMELANCHIER ALNIFOLIA	SASKATOON
COR WHT	16	CORNUS FLORIDA	WHITE DOGWOOD
ILE GGL	16	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
JUN EAS	29	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
MAG LIT	8	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
SHRUBS			
ABE GRB	27	ABELIA GRANDIFLORA	GLOSSY ABELIA
ILE VOM	19	ILEX VOMITORIA	YAUPON HOLLY
ITE VIR	82	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
VIB MIS	66	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	VIBURNUM

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09/06/2023
09/06/2023
01/02/2024

09/17/2021

DRAWN BY
R. WINGATE

DESIGNED BY
P. BARBEAU

CHECKED BY
P. BARBEAU

SCALE
AS SHOWN

TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

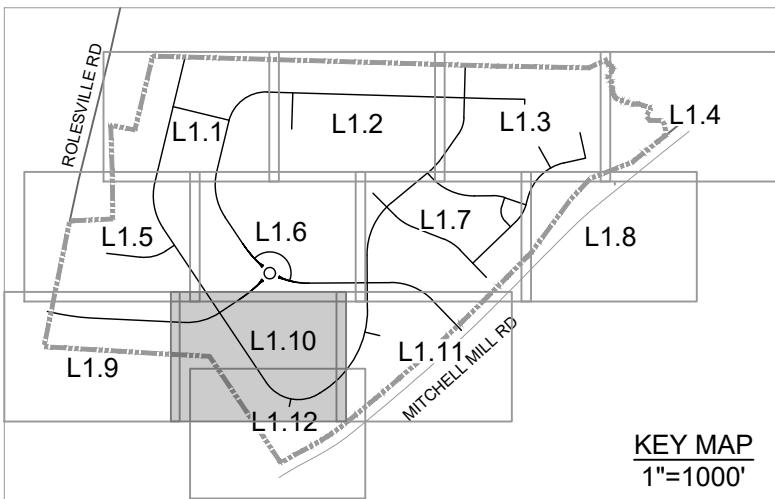
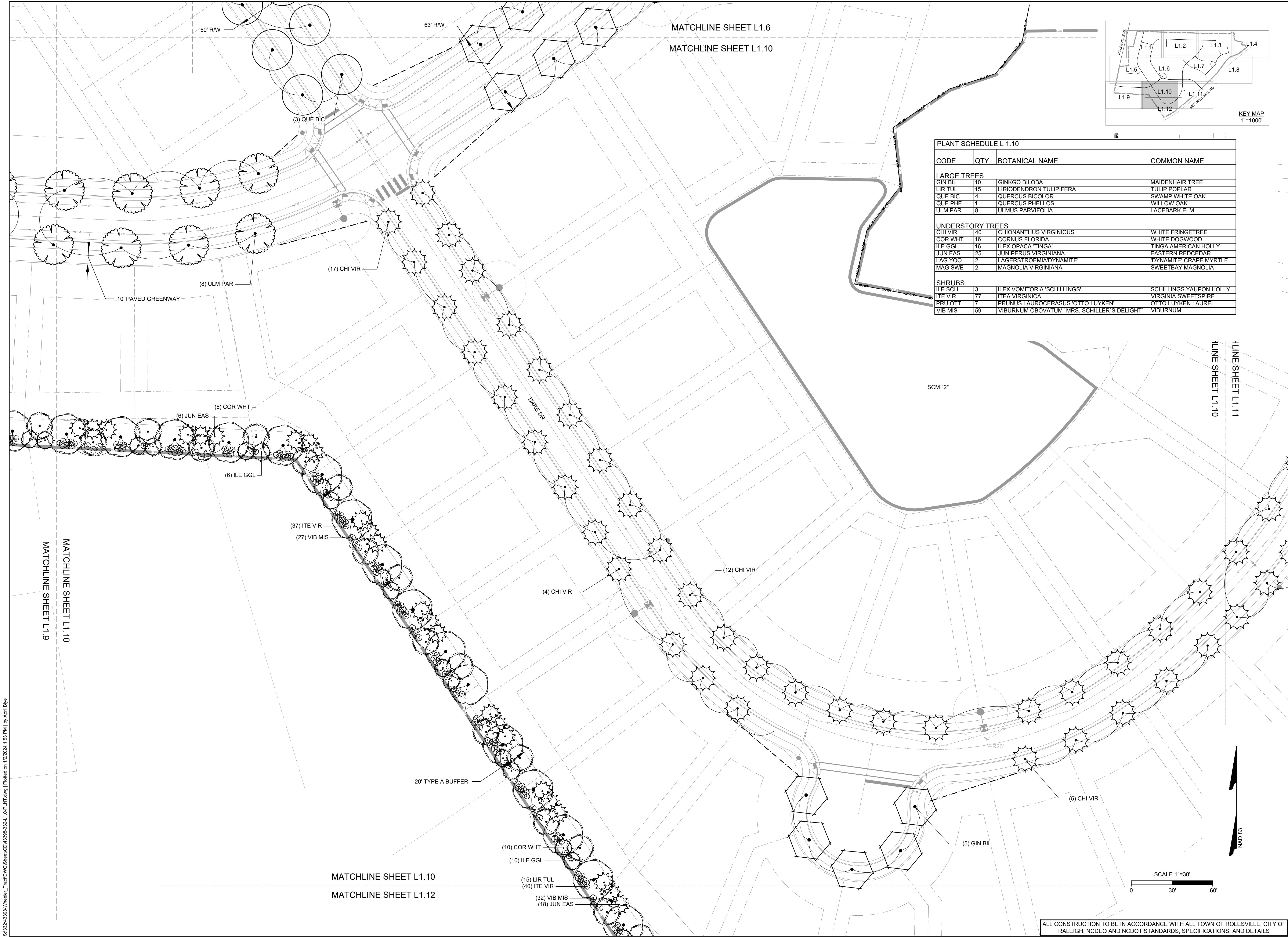
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

LANDSCAPE PLAN

JOB NO.
43398

SHEET NO.
L1.9

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PLANT SCHEDULE L 1.10			
CODE	QTY	BOTANICAL NAME	COMMON NAME
LARGE TREES			
GIN BIL	10	GINKGO BILOBA	MAIDENHAIR TREE
LIR TUL	15	LIRIODENDRON TULIPIFERA	TULIP POPLAR
QUE BIC	4	QUERCUS BICOLOR	SWAMP WHITE OAK
QUE PHE	1	QUERCUS PHELLOS	WILLOW OAK
ULM PAR	8	ULMUS PARVIFOLIA	LACEBARK ELM
UNDERSTORY TREES			
CHI VIR	40	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
COR WHT	16	CORNUS FLORIDA	WHITE DOGWOOD
ILE GGL	16	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
JUN EAS	25	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
LAG YOO	2	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG SWE	2	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
SHRUBS			
ILE SCH	3	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPON HOLLY
ITE VIR	77	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
PRU OTT	7	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL
VIB MIS	59	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	VIBURNUM



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	01/02/2024

DRAWN BY
S. FANTAYE

DESIGNED BY
S. FANTAYE

CHECKED BY
J. BLASCO

SCALE
AS SHOWN

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ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

LANDSCAPE PLAN

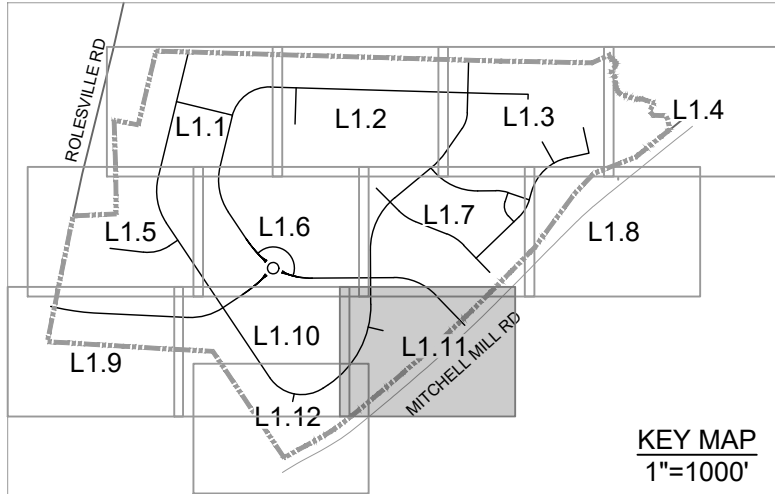
JOB NO.
43398

SHEET NO.
L1.10

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PLANT SCHEDULE L 1.11			
CODE	QTY	BOTANICAL NAME	COMMON NAME
TREES			
AME LKG	15	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY
LARGE TREES			
GIN BIL	7	GINKGO BILOBA	MAIDENHAIR TREE
QUE PHE	12	QUERCUS PHELLOS	WILLOW OAK
UNDERSTORY TREES			
AME SER	8	AMELANCHIER ALNIFOLIA	SASKATOON
CHI VIR	23	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
ILE GGL	6	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
JUN EAS	27	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
LAG YOO	23	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG LIT	6	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
MAG SWE	20	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
SHRUBS			
ILE CHE	18	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
ILE SCH	72	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPOH HOLLY
PRU OTT	108	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL

MATCHLINE SHEET L1.10

MATCHLINE SHEET L1.12

20' TYPE A BUFFER

(10) COR WHT
(10) ILE GGL
(15) LIR TUL
(40) ITE VIR
(32) VIB MIS
(18) JUN EAS

(4) CHI VIR

(12) CHI VIR

20' TYPE A BUFFER

(6) JUN EAS

(6) ILE GGL
(19) VIB MIS
(27) ITE VIR
(6) LIR TUL

EXISTING PROPERTY
MARKER
EXISTING
RIGHT-OF-WAY

(5) GIN BIL

(5) CHI VIR

(6) MAG SWE
(22) PRU OTT
(5) LAG YOO
(16) ILE SCH
(4) QUE PHE
(6) JUN EAS

MATCHLINE SHEET L1.11

MATCHLINE SHEET L1.12

20' STREETSCAPE
TYPE A BUFFER

(6) AME LKG
(20) PRU OTT
(16) ILE SCH

(21) ILE SCH
(23) PRU OTT
(4) QUE PHE
(15) JUN EAS
(9) LAG YOO
(8) MAG SWE

SCALE 1"=30'

NAD 83

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ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

LANDSCAPE PLAN

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SHEET NO.
L1.11

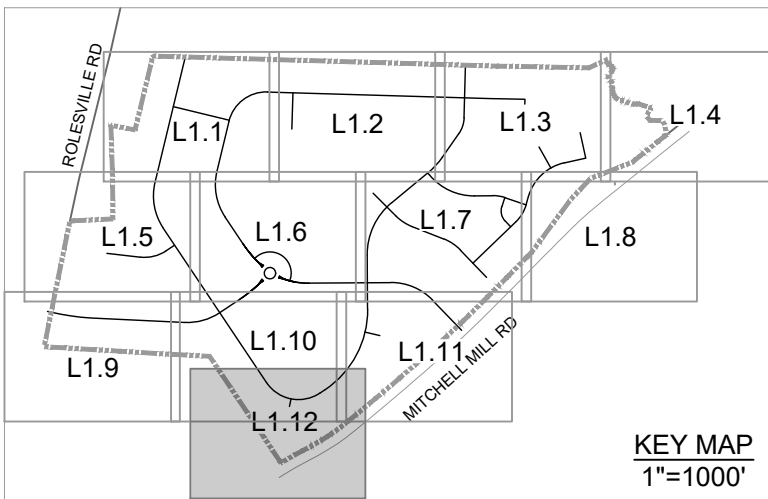
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SCALE 1"=30'



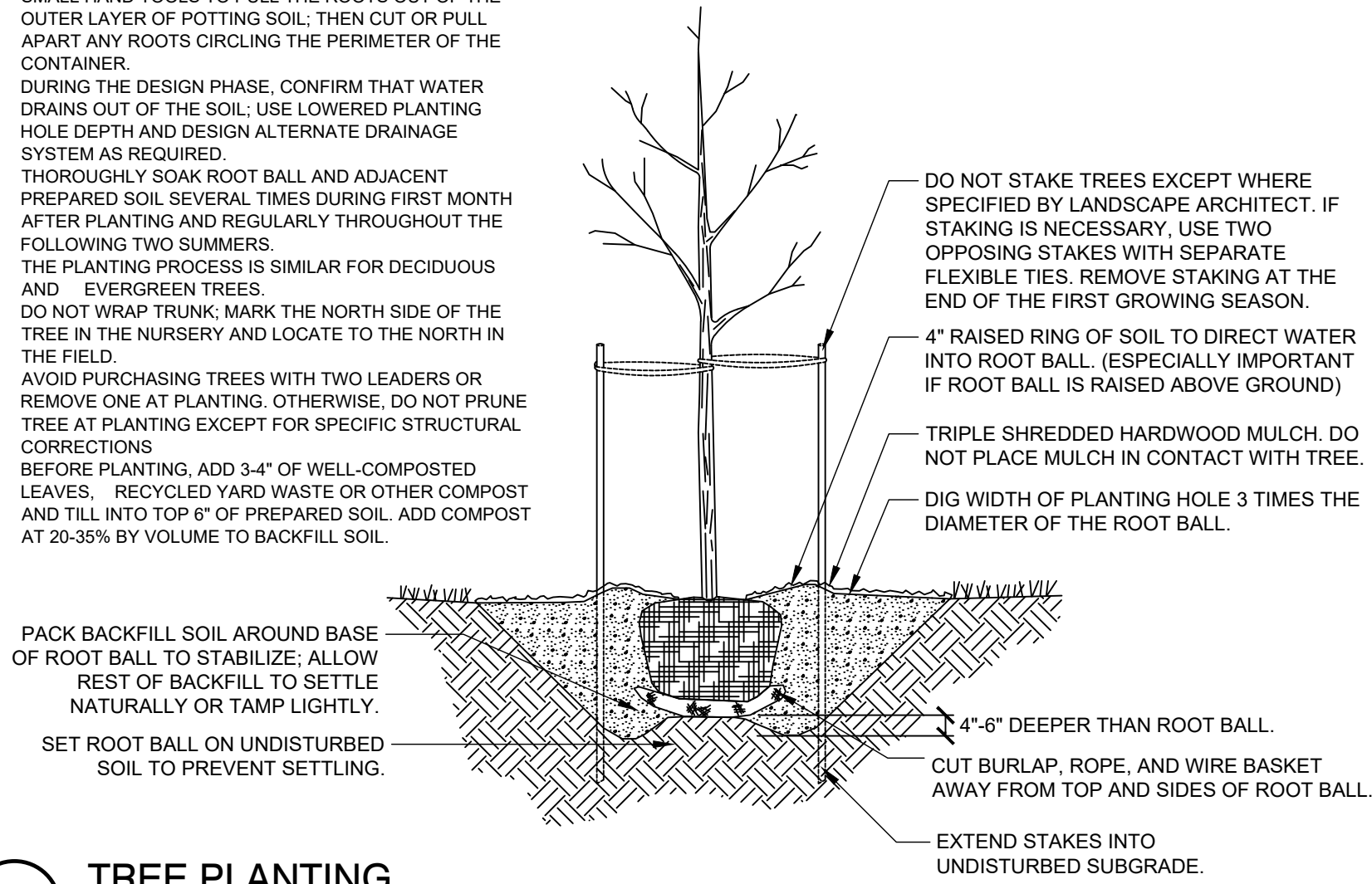
A horizontal scale bar with a white left half and a black right half. It is marked with '0' at the left end, '30'' at the midpoint, and '60'' at the right end.

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NOTES:

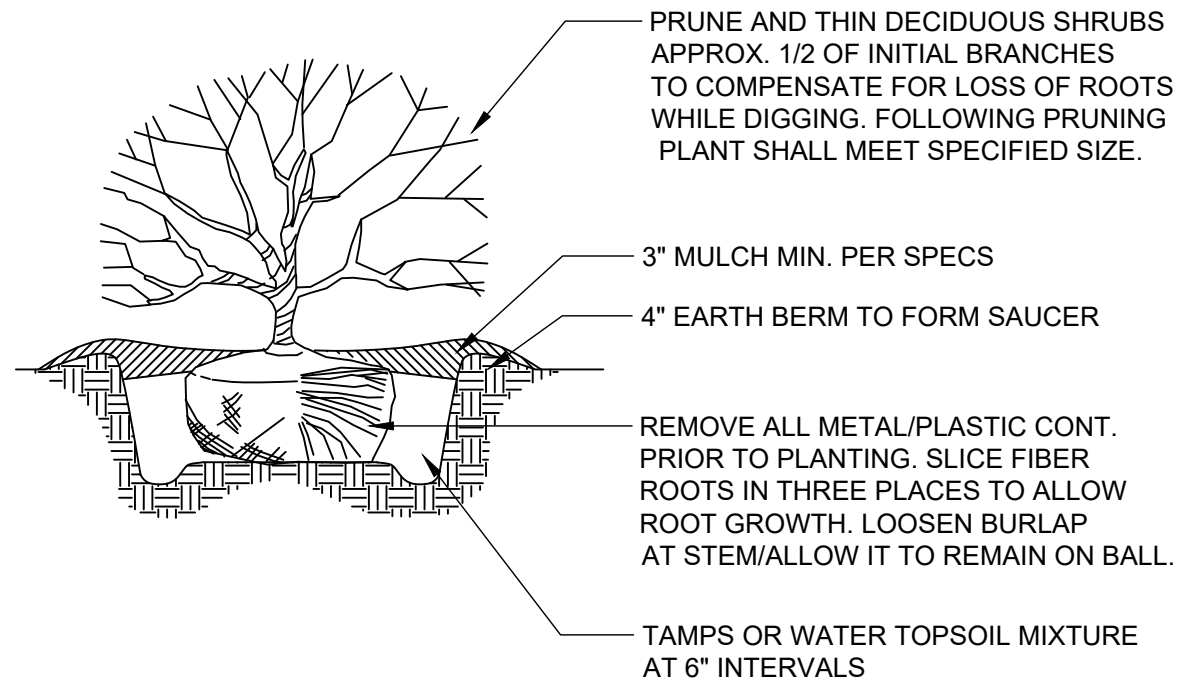
- WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6" (10-15CM) OVER THE ENTIRE AREA.
- FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
- DURING THE DESIGN PHASE, CONFIRM THAT WATER DRAINS OUT OF THE SOIL; USE LOWERED PLANTING HOLE DEPTH AND DESIGN ALTERNATE DRAINAGE SYSTEM AS REQUIRED.
- THOROUGHLY SOAK ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
- DO NOT WRAP TRUNK; MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
- AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS.
- BEFORE PLANTING, ADD 3-4" OF WELL-COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL SOIL.



1 TREE PLANTING
NTS

LANDSCAPE NOTES:

- ALL PLANT MATERIAL INSTALLED MUST MEET STANDARDS SET BY AMERICAN ASSOCIATION OF NURSERYMEN, INC., "STANDARDS FOR NURSERY STOCK."
- THE MINIMUM NUMBER OF PLANTS REQUIRED, REGARDLESS OF AREA CALCULATIONS, IS (3) TREES AND (20) SHRUBS.
- PLANTING AREAS SHALL BE PERMANENTLY PROTECTED FROM DAMAGE BY VEHICULAR TRAFFIC THROUGH THE USE OF CURBING AND/OR WHEEL STOPS. WHEEL STOPS SHALL BE USED IN PARKING AREAS WHERE:
 - CURBING HAS NOT BEEN USED OR IS LESS THAN 6" IN HEIGHT.
 - PROPOSED NEW TREES AND SHRUBS ARE PLANTED WITHIN 5' FROM ADJACENT CURBING OR EDGE OF VEHICULAR SURFACE AREA PAVING.
- A CERTIFICATE OF OCCUPANCY SHALL BE ISSUED ONLY WHEN ALL PLANTINGS HAVE BEEN INSTALLED AND ALL THE WORK SHOWN ON THE APPROVED LANDSCAPE PLAN HAS BEEN COMPLETED. SUBSTANTIAL CHANGES IN PLANTINGS WHICH HAVE CHANGED THE INTENT OF THE APPROVED PLANS AND CHANGED THE CREDIT TOTALS USED TO MEET THE ORDINANCE REQUIREMENTS SHALL BE REVIEWED BY THE TOWN STAFF FOR COMPLIANCE PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
- WHERE SUPPLEMENTAL PLANTING IS REQUIRED IN BUFFERS, THE PLANNING DIRECTOR SHALL HAVE THE AUTHORITY TO SPECIFY THE LOCATION TO ACCOUNT FOR AND PROVIDE MAXIMUM SCREENING IN THE EVENT OF SIGNIFICANT GRADE DIFFERENCES BETWEEN PROPERTIES TO WHICH THE BUFFER STANDARD APPLIES. PROPOSED VEGETATION SHALL ADHERE TO THE FOLLOWING BUFFER PLANTING REQUIREMENTS:
 - IN CALCULATING BUFFER PLANTING REQUIREMENTS, AREAS OF DRIVEWAYS AND SIGHT DISTANCE TRIANGLES SHALL BE EXCLUDED.
 - DECIDUOUS OVERSTORY TREES, SMALL TREES OR LARGE SHRUBS, EVERGREEN SHRUBS AND EVERGREEN TREES SHALL BE DISTRIBUTED ALONG THE ENTIRE LENGTH OF THE BUFFER. DUE TO UNIQUE CHARACTERISTICS OF A SITE, OR DESIGN OBJECTIVES, ALTERNATIVE DESIGNS THAT ACHIEVE THE REQUIRED SCREENING MAY BE APPROVED BY THE PLANNING DIRECTOR.
- NO SCREENING OR BUFFERING SHALL INTERFERE WITH THE SIGHT DISTANCE TRIANGLES REQUIRED FOR SAFE TRAFFIC MOVEMENTS AT DRIVEWAY OR STREET INTERSECTIONS.
 - PLANTINGS MUST NOT CREATE ANY VISUAL OBSTRUCTION BETWEEN 30" AND 7' IN HEIGHT WITHIN SIGHT DISTANCE TRIANGLES.
 - THE PRUNING OF VSA SCREENING SHRUBS SHALL ALLOW LATERAL GROWTH OF BRANCHES AS TO FORM A HEDGE.
- ALL LANDSCAPE ISLANDS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED



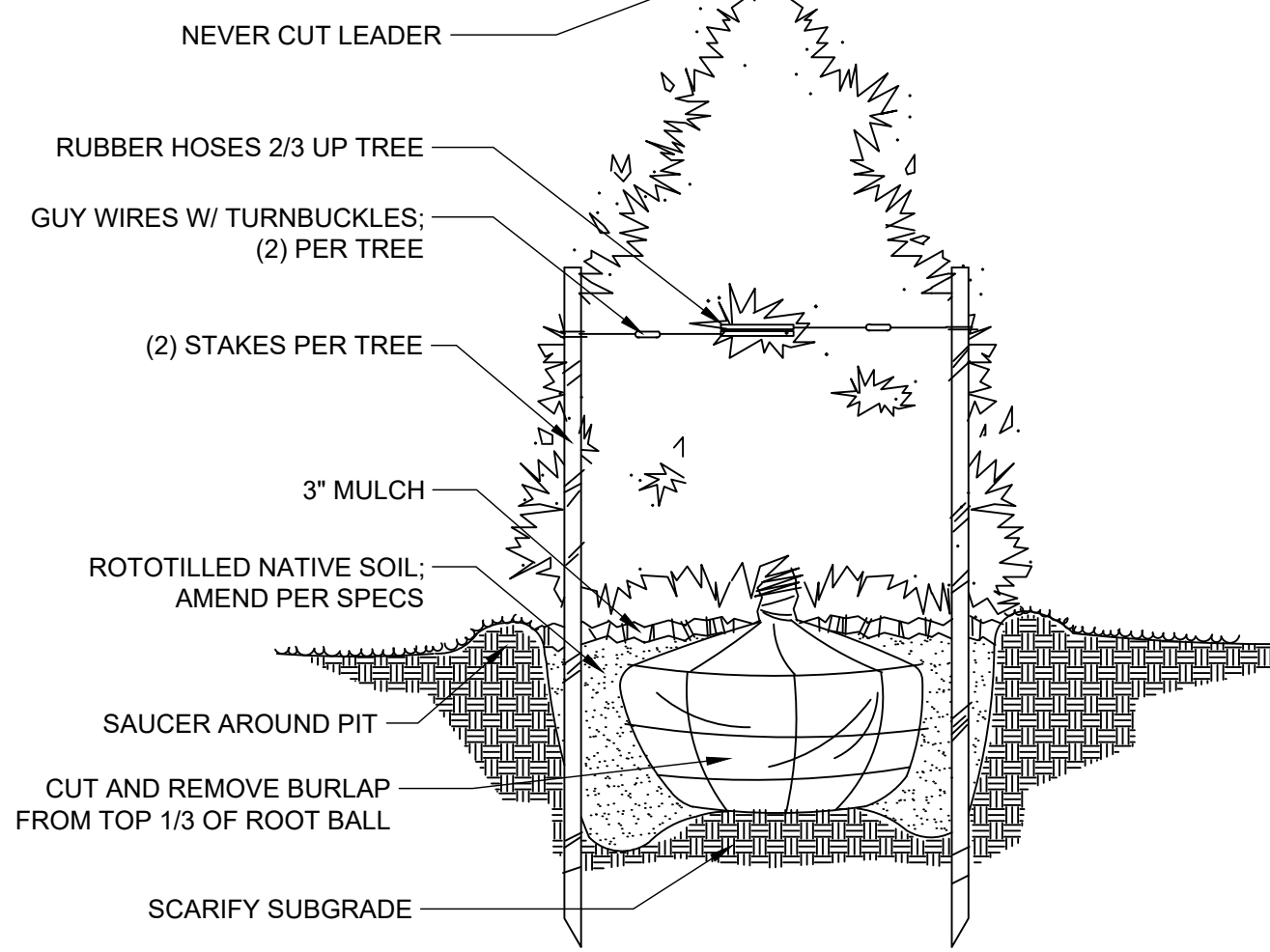
NOTES:

- SOIL MIX: 1/3 ORGANIC MATTER, 2/3 EXIST SOIL.
- WIDTH OF PLANT PIT: SANDY SOIL, 24" WIDER THAN PLANT BALL; CLAY SOIL, 12" WIDER THAN PLANT BALL.
- FOR PLANTING AREAS WHERE SOIL HAS BEEN COM-PACTED BY EQUIP. CONTACT LA PRIOR TO PLANTING.
- FOR CAMELLIAS, RHODOS, AZALEAS, AND LAURELS: SOIL MIX, 2/3 ORGANIC AND 1/3 EXISTING SOIL
- SHRUB SHALL BEAR SAME RELATIONSHIP TO GRADE AS IT DID PRIOR TO DIGGING.

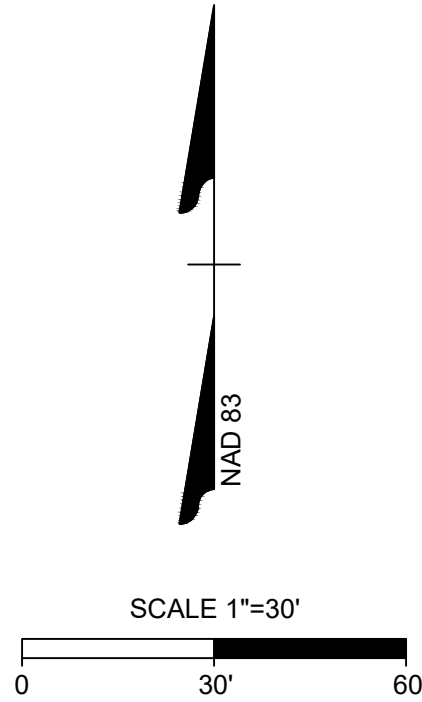
2 SHRUB PLANTING
NTS

NOTES:

- Tree shall have same relation to grade as it had in nursery



3 EVERGREEN PLANTING
NTS



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DATE
09/17/2021

DRAWN BY
S. FANTAYE

DESIGNED BY
S. FANTAYE

CHECKED BY
J. BLASCO

SCALE
AS SHOWN

TIMMONS GROUP
NORTH CAROLINA LICENSE NO. C-1652

ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

LANDSCAPE NOTES & DETAILS 2

JOB NO.
43398

SHEET NO.
L2.1

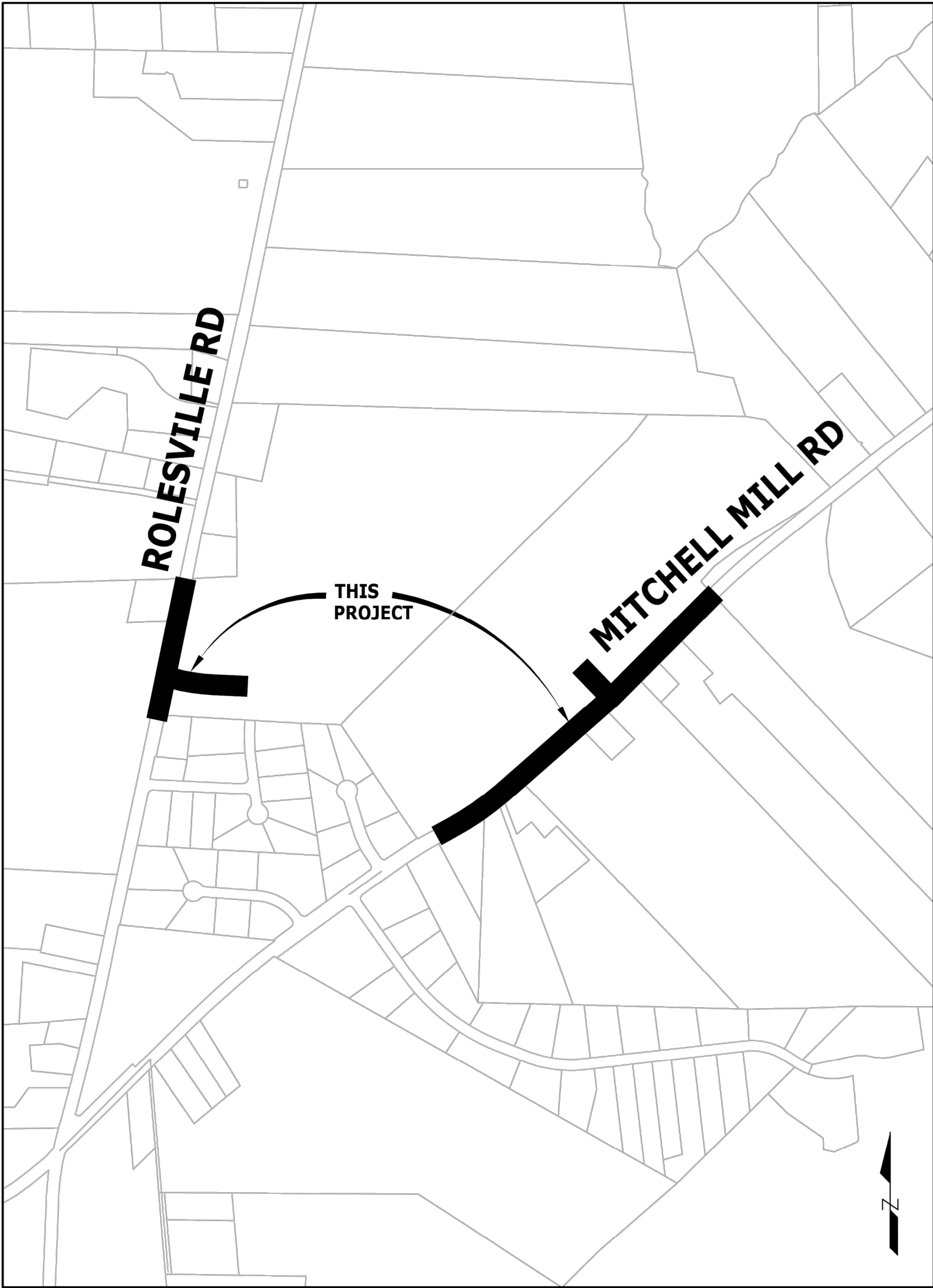
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WHEELER TRACT
OFFSITE IMPROVEMENTS
TOWN OF ROLESVILLE
WAKE COUNTY, NORTH CAROLINA

DATE: 07/21/22

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MITCHELL MILL ROAD	
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EROSION CONTROL SHEET	R5.03
TRAFFIC CONTROL PLANS	R7.00
CROSS SECTIONS	R8.01 - R8.10



OVERALL VICINITY MAP
SCALE: 1" = 500'



ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF NCDOT STANDARDS AND SPECIFICATIONS.

SURVEY NOTES:

- HORIZONTAL CONTROL (BASIS OF THE BEARINGS) IS BASED ON NC STATE GRID, NAD'83 (2011); VERTICAL CONTROL IS BASED ON NAVD'88, AS ESTABLISHED BY GPS. ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES.
- CONTOUR INTERVALS ARE 1'.
- THE LOCATION OF SUB SURFACE UTILITIES AS SHOWN HEREON, IF ANY, ARE BASED ON FIELD LOCATION OF SURFACE FEATURES AND MARKINGS PROVIDED BY NC 811 AND ARE APPROXIMATE. OTHER SUB SURFACE UTILITIES MAY EXIST ON THIS SITE THAT ARE NOT INCLUDED IN THIS SURVEY.
- THIS MAP CONSTITUTES NEITHER A SUBDIVISION NOR A RECOMBINATION PLAT OF THE PARCELS OF LAND SHOWN HEREON. THIS MAP HAS NOT BEEN PREPARED IN ACCORDANCE WITH NC G.S. 47-30 AND IS NOT SUITABLE FOR RECORDING.
- THERE ARE NO RECOVERABLE NGS MONUMENTS WITHIN 200' OF THIS PROPERTY.

EXISTING CONDITONS NOTES:

- OTHER SOURCES OF INFORMATION INCLUDE TOWN GIS AND AERIAL IMAGERY.
- THE UTILITIES ON THESE PLANS ARE APPROXIMATE ONLY, AND ARE NOT ACCURATE FOR CONSTRUCTION PURPOSES. FOR FIELD MARKS CALL 811.

DEMOLITION NOTES:

- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- REMOVE TOPSOIL AND STOCKPILE APPROPRIATELY ON-SITE. ON-SITE TEMPORARY STOCKPILES SHALL BE LOCATED WITHIN CONSTRUCTION LIMITS.
- ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL BE PATCHED PER PAVEMENT REPAIR DETAIL.
- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGE OCCUR, NOTIFY ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL USE NC ONE CALL (811) TO LOCATE ALL UNDERGROUND UTILITIES.
- VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
- EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERLY WITH THE PROPOSED FINISHED GRADES (WHETHER OR NOT INDICATED TO BE MODIFIED).
- GENERAL CONTRACTOR TO COORDINATE ALL PEDESTRIAN ACCESS PATHS, LOCATIONS, LIGHTING ETC. WITH THE OWNER.
- CONTRACTOR TO COORDINATE ALL WORK AS NEEDED WITH UTILITY COMPANIES, MUNICIPALITY, AND INSPECTORS.
- CONTRACTOR TO COORDINATE ALL DEMOLITION WORK AS NEEDED WITH UTILITY COMPANIES AND MUNICIPALITIES. ALL WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- CONTRACTOR TO CONFIRM LOCATION OF ALL ONSITE UTILITY SERVICES AND COORDINATE REMOVAL AS NEEDED.

GRADING AND STORM DRAINAGE NOTES:

- CONTRACTOR SHALL CALL "NORTH CAROLINA ONE CALL" (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO DIGGING TO HAVE EXISTING UTILITIES LOCATED. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES INVOLVED IN ANY RELATED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
- EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE CONTRACTOR'S INDEPENDENT TESTING LABORATORY.
- A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED PRIOR TO ANY WORK, GRADING OR INSTALLATION OF EROSION CONTROL MEASURES.
- IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ENGINEER PRIOR TO POURING ANY ASPHALT SO THAT A SOLUTION CAN BE FOUND.
- SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
- EXISTING VEGETATION WITHIN TREE PROTECTIVE AREAS SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR OR THE ENGINEER.
- THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.

DESIGN DATA

Rolesville Road (SR-1003)	Mitchell Mill Road (SR-2224)
ADT 2019 = 4,300	ADT 2019 = 1,900
Vd = 50 mph	Vd = 50 mph
F.C. = Minor Arterial	F.C. = Major Collector

NOTE: SEE TRAFFIC STUDY FOR FUTURE VOLUMES



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REVISION DESCRIPTION
ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE
GRADING AND STORM NETWORK ADJUSTMENTS

DATE
06-15-2023
10-24-2023

07/21/22

DRAWN BY
BPW

DESIGNED BY
BPW

CHECKED BY
BPW

SCALE

WHEELER TRACT - OFFSITE IMPROVEMENTS
ROLESVILLE - WAKE COUNTY, NORTH CAROLINA

COVER SHEET

JOB NO.
43398

SHEET NO.
R1.00

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Alignment Name: MMRD
Station Range: Start: 200+00.00, End: 231+84.86
Description:

Line (1)
N54° 21' 49.81"E 144.382'
N 776,611.4531 E 2,164,646.7550 201+44.38
Line (1)

Direction Back N54° 21' 49.81"E
 Radius 2,000.000'
 Delta 7°01'18"(RT)
 Length 245.107'
 Tangent 122.707'
 Chord Direction N57° 52' 29.02"E Distance 244.95'
 Direction Ahead N61° 23' 08.24"E

Line (3)
N61° 23' 08.24"E 78.306'
N 776,779.2139 E 2,164,922.9443 204+67.79
Line (3)

Direction Back N61° 23' 08.24"E
 Radius 1,500.000'
 Delta 11°35'23"(LT)
 Length 303.416'
 Tangent 152.227'
 Chord Direction N55° 35' 26.88"E Distance 302.89'
 Direction Ahead N49° 47' 45.52"E

Line (5)
N49° 47' 45.52"E 283.432'
N 777,133.3404 E 2,165,389.3142 210+54.64
Line (5)

Direction Back N49° 47' 45.52"E
 Radius 7,400.000'
 Delta 5°11'05"(LT)
 Length 669.619'
 Tangent 335.038'
 Chord Direction N47° 12' 13.16"E Distance 669.35'
 Direction Ahead N44° 36' 40.81"E

Line (7)
 N44° 36' 40.81"E 471.600'
 N 777,923.8467 E 2,166,211.6969 221+95.86
 Line (7)

Direction Back N44° 36' 40.81"E
 Radius 2,500.000'
 Delta 6°35'39"(RT)
 Length 287.727'
 Tangent 144.022'
 Chord Direction N47° 54' 30.39"E Distance 287.56'
 Direction Ahead N51° 12' 19.98"E

Line (9)
 N51° 12' 19.98"E 701.272'
 N 778,555.9755 E 2,166,971.6646 231+84.86
 Line (9)

Alignment Length: 3,184.860'

Line (1)
N11° 58' 11.82"E 244.367'
N 777,317.3483 E 2,163,496.6743 102+44.37
Line (1)

Line (3)		
N 11° 32' 42.39"E	505.833'	
N 778,106.5156 E	2,163,658.7184	110+50.00
Line (3)		
N 778,106.5156 E	2,163,658.7184	110+50.00
End RVRD		

Alignment Name: ROAD1
Station Range: Start: 10+00.00, End: 14+01.54
Description:

Line (1)
S78° 25' 03.43"E 81.989'
N 777,497.2142 E 2,163,617.6597 10+81.99
Line (1)

Direction Back S78° 25' 03.43"E
 Radius 1,000.000'
 Delta 8°51'44"(LT)
 Length 154.673'
 Tangent 77.491'
 Chord Direction S82° 50' 55.26"E Distance 154.51'
 Direction Ahead S87° 16' 47.09"E

Line (3)
S87° 16' 47.09"E 164.875'
N 777,470.1532 E 2,163,935.6661 14+01.54
Line (3)

Alignment Length: 401.538'

Alignment Name: ROAD2
Station Range: Start: 10+00.00, End: 12+17.61
Description:

Line (1)
 N43° 55' 39.13"W 217.614'
 N 777,570.0941 E 2,165,551.2300 12+17.61
 Line (1)

Alignment Length: 217.614'

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

THE ROAD GRADING AND STRUCTURES ON THIS PROJECT HAVE BEEN DONE OR ARE NOW BEING DONE UNDER A PREVIOUS CONTRACT. THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03
AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.
CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.

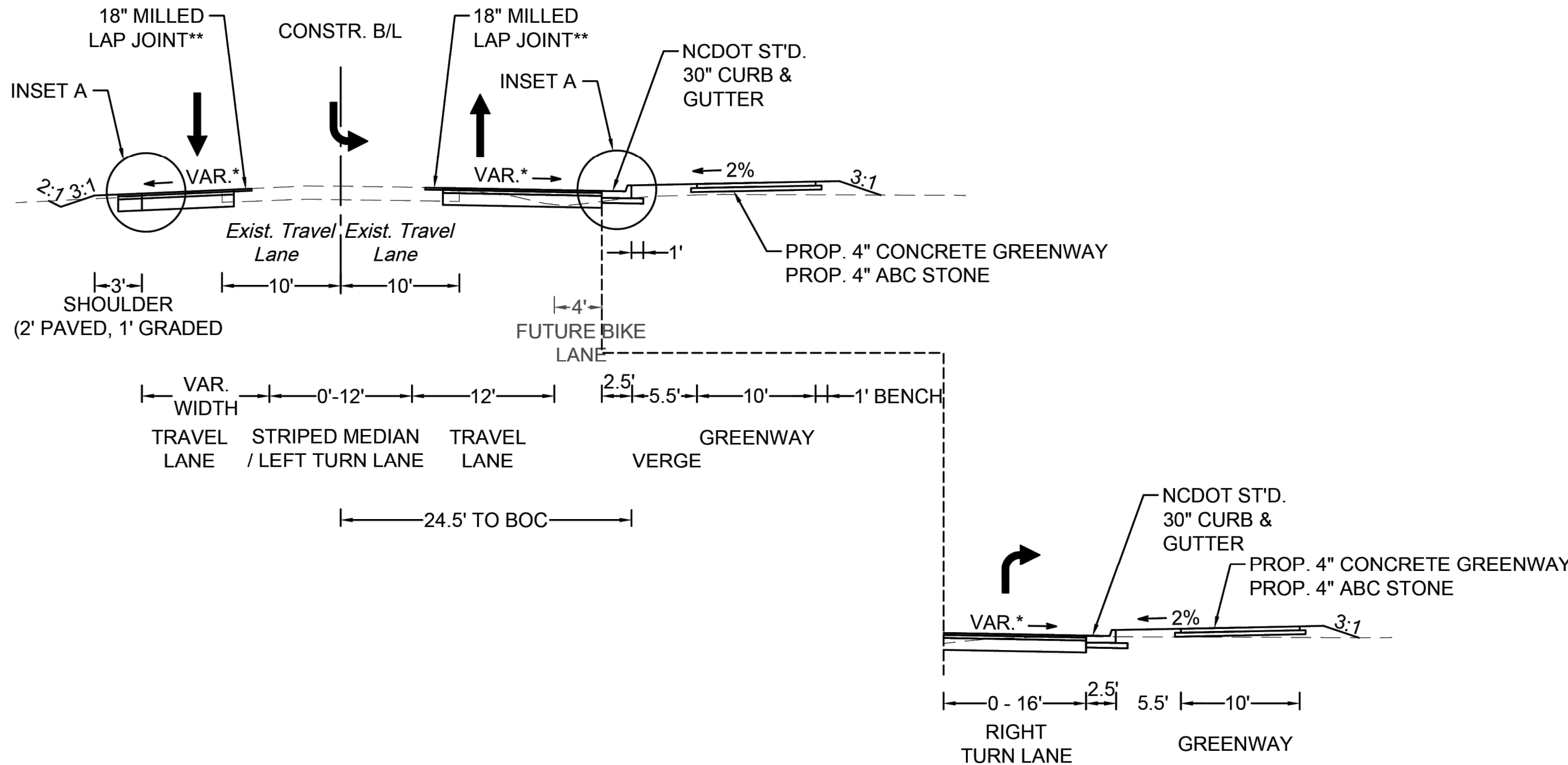
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
DIVISION 8 - INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
816.01	Concrete Pads - for Shoulder Drain Installation
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.03	Driveway Turnout - Drop Curb Type
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
876.02	Guide for Rip Rap at Pipe Outlets

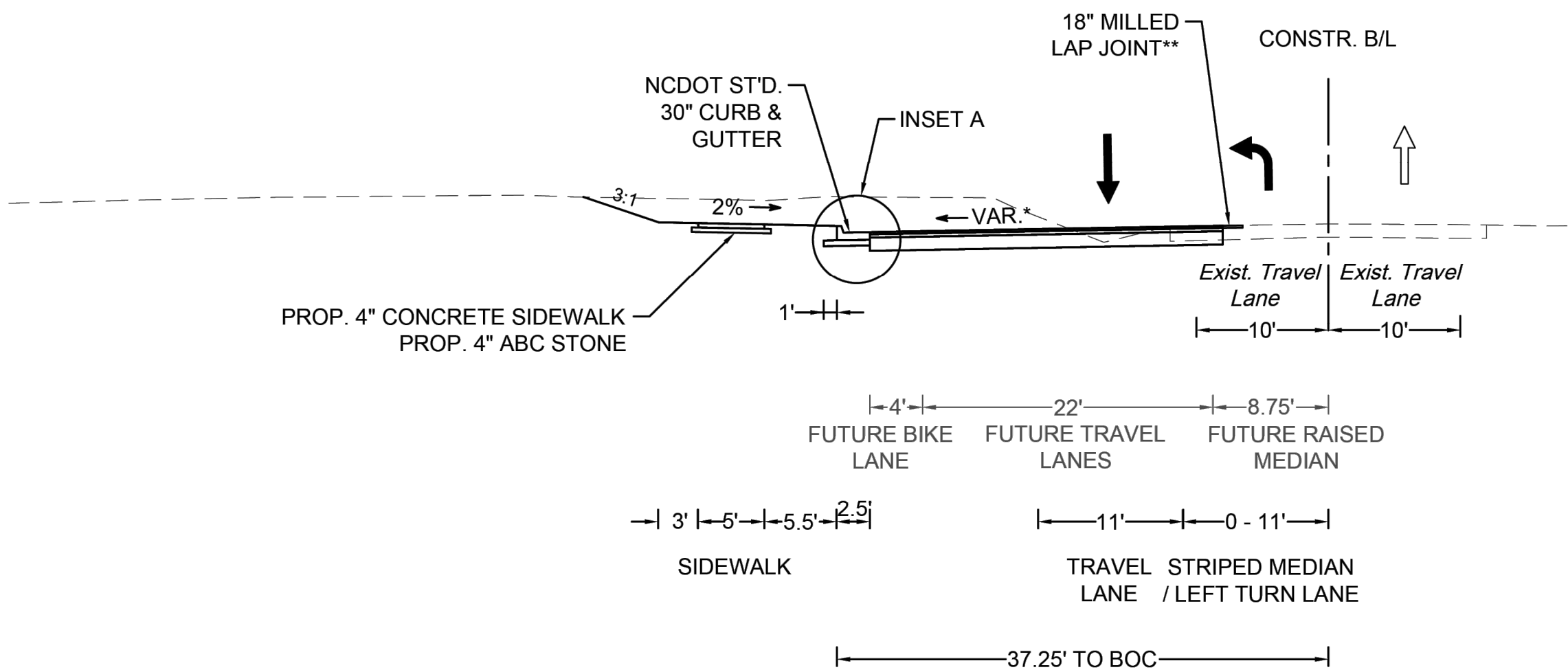
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TYPICAL SECTIONS

ROLESVILLE ROAD
PROPOSED TYPICAL SECTION
STA. 102+70 TO 110+00

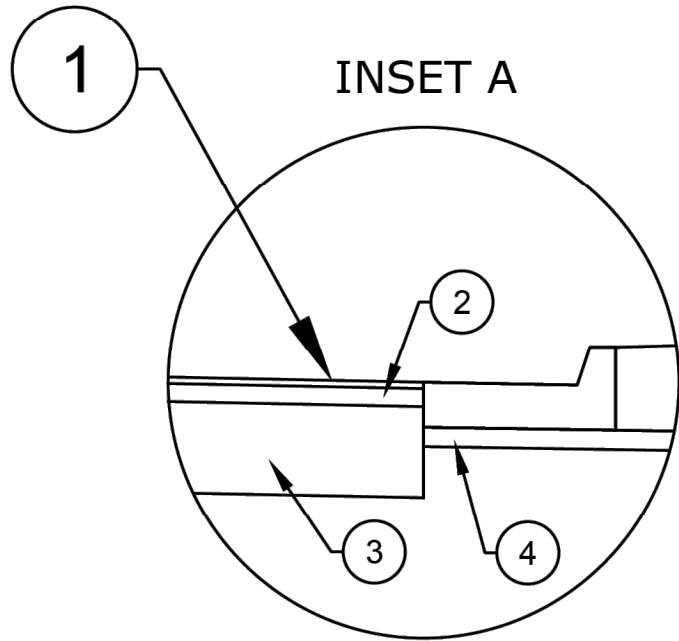


MITCHELL MILL ROAD
PROPOSED TYPICAL SECTION
STA. 203+00 TO 220+75



* OR AS CONTROLLED BY SUPERELEVATION, SEE CROSS SECTIONS FOR FURTHER DETAILS

** SAW CUT 18" INTO EXISTING PAVEMENT TO KEY-IN PAVEMENT WIDENING AREAS. MATCH AND REPLACE EXISTING.



- ① 3" ASPHALT CONCRETE SURFACE COURSE (NCDOT S9.5C)
- ② 4" ASPHALT INTERMEDIATE COURSE (NCDOT I19.0C)
- ③ 10" AGGREGATE BASE MATERIAL (NCDOT ABC STONE)
* USE 5" DEPTH ASPHALT CONCRETE BASE COURSE (NCDOT B25.0C) IF WIDENING < 6'
- ④ 4" AGGREGATE BASE MATERIAL (NCDOT ABC STONE)



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REVISION DESCRIPTION	
DATE	ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE
06-15-2023	GRADING AND STORM NETWORK ADJUSTMENTS
10-24-2023	

DATE	07/21/22
DRAWN BY	BPW
DESIGNED BY	BPW
CHECKED BY	BPW
SCALE	AS NOTED

TIMMONS GROUP

WHEELER TRACT - OFFSITE IMPROVEMENTS
ROLESVILLE - WAKE COUNTY, NORTH CAROLINA
TYPICAL SECTIONS

JOB NO.	43398
SHEET NO.	R2.01

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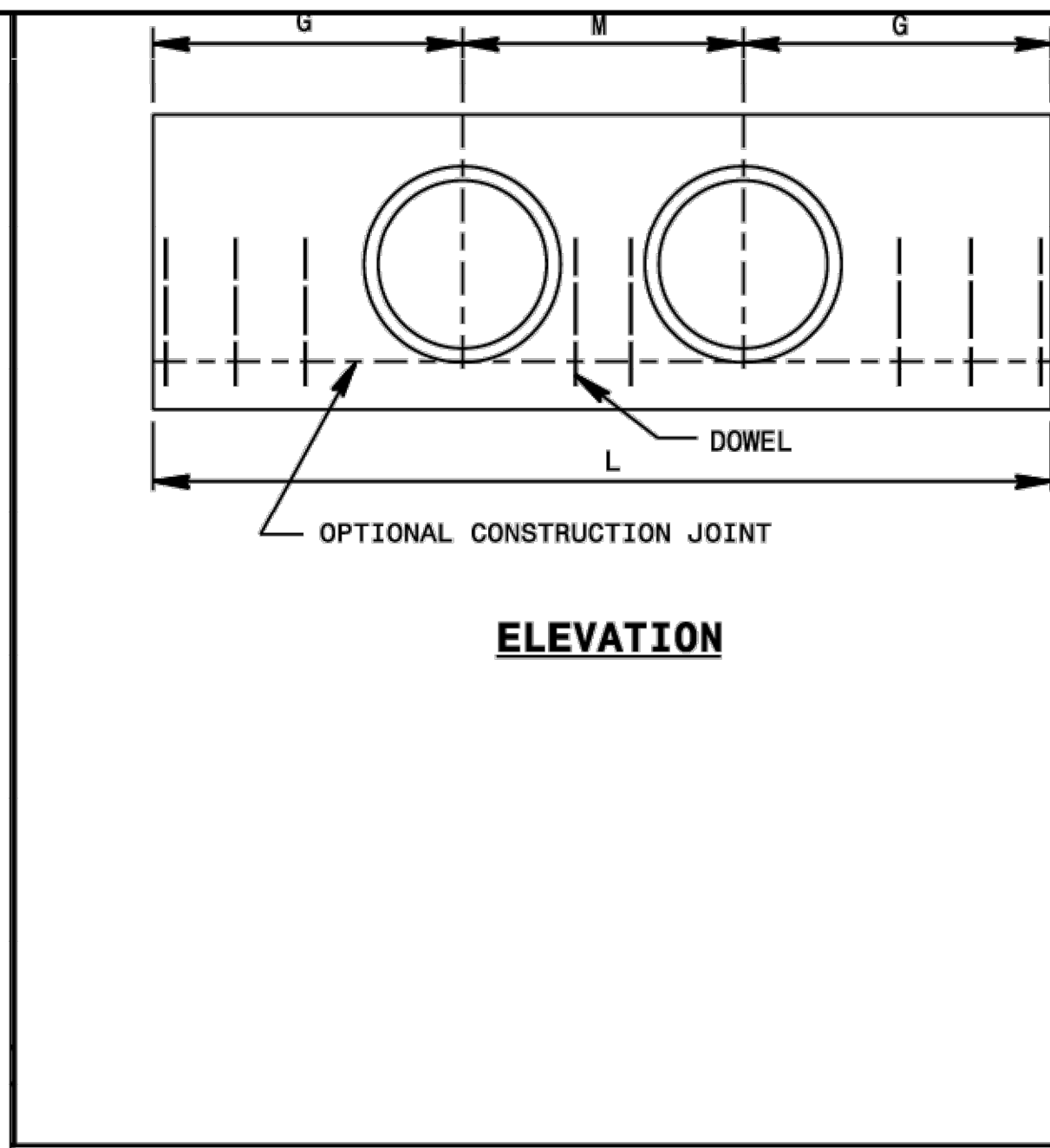
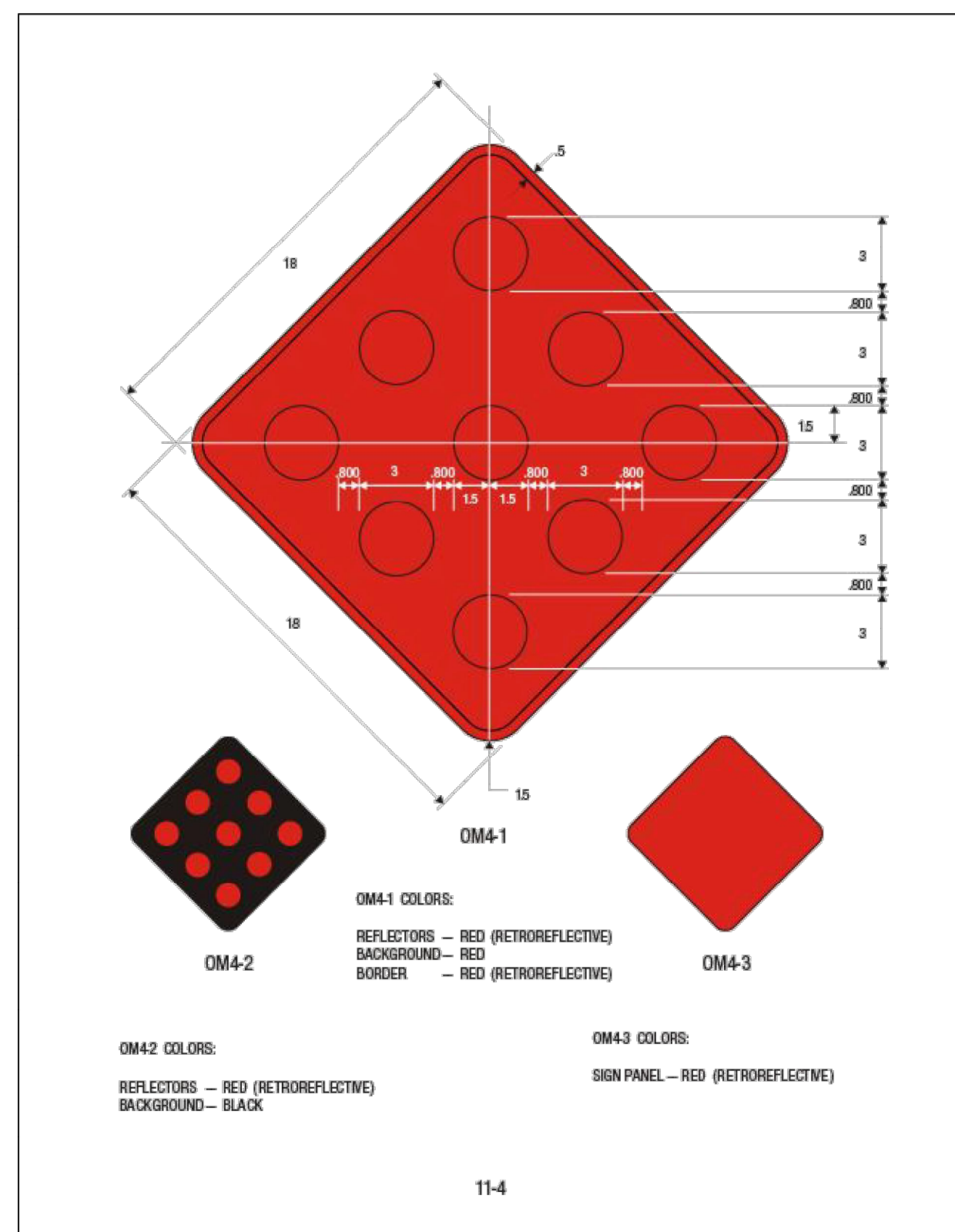
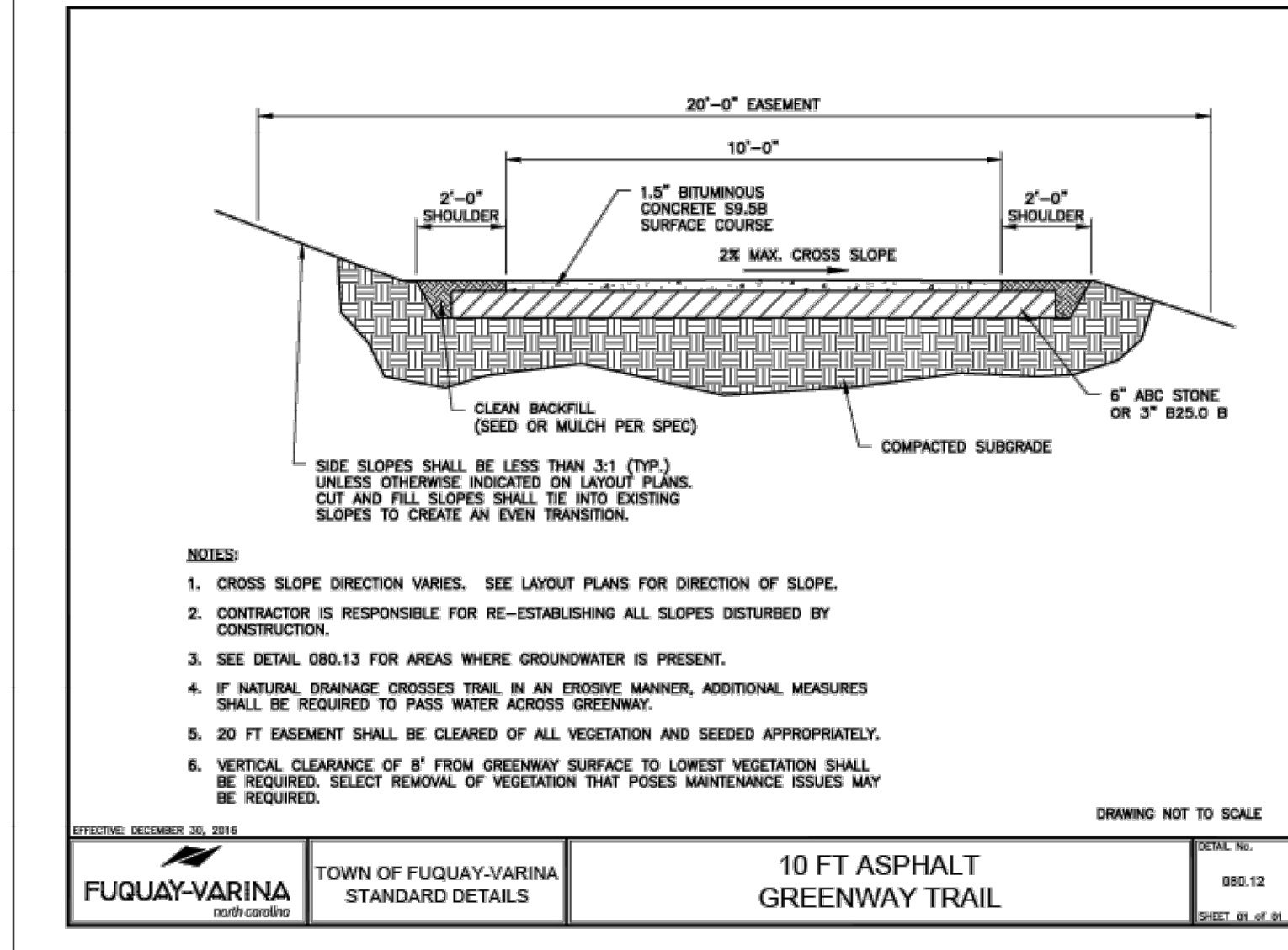


FIGURE 10

DOWELS IN ENDWALL WITH REINFORCED CONCRETE

TYPE 10

TYPE 10A

TYPE 10B

TYPE 10C

TYPE 10D

TYPE 10E

TYPE 10F

TYPE 10G

TYPE 10H

TYPE 10I

TYPE 10J

TYPE 10K

TYPE 10L

TYPE 10M

TYPE 10N

TYPE 10O

TYPE 10P

TYPE 10Q

TYPE 10R

TYPE 10S

TYPE 10T

TYPE 10U

TYPE 10V

TYPE 10W

TYPE 10X

TYPE 10Y

TYPE 10Z

TYPE 10AA

TYPE 10AB

TYPE 10AC

TYPE 10AD

TYPE 10AE

TYPE 10AF

TYPE 10AG

TYPE 10AH

TYPE 10AI

TYPE 10AJ

TYPE 10AK

TYPE 10AL

TYPE 10AM

TYPE 10AN

TYPE 10AO

TYPE 10AP

TYPE 10AQ

TYPE 10AR

TYPE 10AS

TYPE 10AT

TYPE 10AU

TYPE 10AV

TYPE 10AW

TYPE 10AX

TYPE 10AY

TYPE 10AZ

TYPE 10BA

TYPE 10BB

TYPE 10BC

TYPE 10BD

TYPE 10BE

TYPE 10BF

TYPE 10BG

TYPE 10BH

TYPE 10BI

TYPE 10BJ

TYPE 10BK

TYPE 10BL

TYPE 10BM

TYPE 10BN

TYPE 10BO

TYPE 10BP

TYPE 10BQ

TYPE 10BR

TYPE 10BS

TYPE 10BT

TYPE 10BU

TYPE 10BV

TYPE 10BW

TYPE 10BX

TYPE 10BY

TYPE 10BZ

TYPE 10CA

TYPE 10CB

TYPE 10CC

TYPE 10CD

TYPE 10CE

TYPE 10CF

TYPE 10CG

TYPE 10CH

TYPE 10CI

TYPE 10CJ

TYPE 10CK

TYPE 10CL

TYPE 10CM

TYPE 10CN

TYPE 10CO

TYPE 10CP

TYPE 10CQ

TYPE 10CR

TYPE 10CS

TYPE 10CT

TYPE 10CU

TYPE 10CV

TYPE 10CW

TYPE 10CX

TYPE 10CY

TYPE 10CZ

TYPE 10DA

TYPE 10DB

TYPE 10DC

TYPE 10DD

TYPE 10DE

TYPE 10DF

TYPE 10DG

TYPE 10DH

TYPE 10DI

TYPE 10DJ

TYPE 10DK

TYPE 10DL

TYPE 10DM

TYPE 10DN

TYPE 10DO

TYPE 10DP

TYPE 10DQ

TYPE 10DR

TYPE 10DS

TYPE 10DT

TYPE 10DU

TYPE 10DV

TYPE 10DW

TYPE 10DX

TYPE 10DY

TYPE 10DZ

TYPE 10EA

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TYPE 10EC

TYPE 10ED

TYPE 10EE

TYPE 10EF

TYPE 10EG

TYPE 10EH

TYPE 10EI

TYPE 10EJ

TYPE 10EK

TYPE 10EL

TYPE 10EM

TYPE 10EN

TYPE 10EO

TYPE 10EP

TYPE 10EQ

TYPE 10ER

TYPE 10ES

TYPE 10ET

TYPE 10EU

TYPE 10EV

TYPE 10EW

TYPE 10EX

TYPE 10EY

TYPE 10EZ

TYPE 10FA

TYPE 10FB

TYPE 10FC

TYPE 10FD

TYPE 10FE

TYPE 10FF

TYPE 10FG

TYPE 10FH

TYPE 10FI

TYPE 10FJ

TYPE 10FK

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TYPE 10FN

TYPE 10FO

TYPE 10FP

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TYPE 10FR

TYPE 10FS

TYPE 10FT

TYPE 10FU

TYPE 10FV

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TYPE 10FY

TYPE 10FZ

TYPE 10GA

TYPE 10GB

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TYPE 10GZ

TYPE 10HA

TYPE 10HB

TYPE 10HC

TYPE 10HD

TYPE 10HE

TYPE 10HF

TYPE 10HG

TYPE 10HH

TYPE 10HI

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TYPE 10HK

TYPE 10HL

TYPE 10HM

TYPE 10HN

TYPE 10HO

TYPE 10HP

TYPE 10HQ

TYPE 10HR

TYPE 10HS

TYPE 10HT

TYPE 10HU

TYPE 10HV

TYPE 10HW

TYPE 10HX

TYPE 10HY

TYPE 10HZ

TYPE 10IA

TYPE 10IB

TYPE 10IC

TYPE 10ID

TYPE 10IE

TYPE 10IF

TYPE 10IG

TYPE 10IH

TYPE 10II

TYPE 10IJ

TYPE 10IK

TYPE 10IL

TYPE 10IM

TYPE 10IN

TYPE 10IO

TYPE 10IP

TYPE 10IQ

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TYPE 10IW

TYPE 10IX

TYPE 10IY

TYPE 10IZ

TYPE 10JA

TYPE 10JB

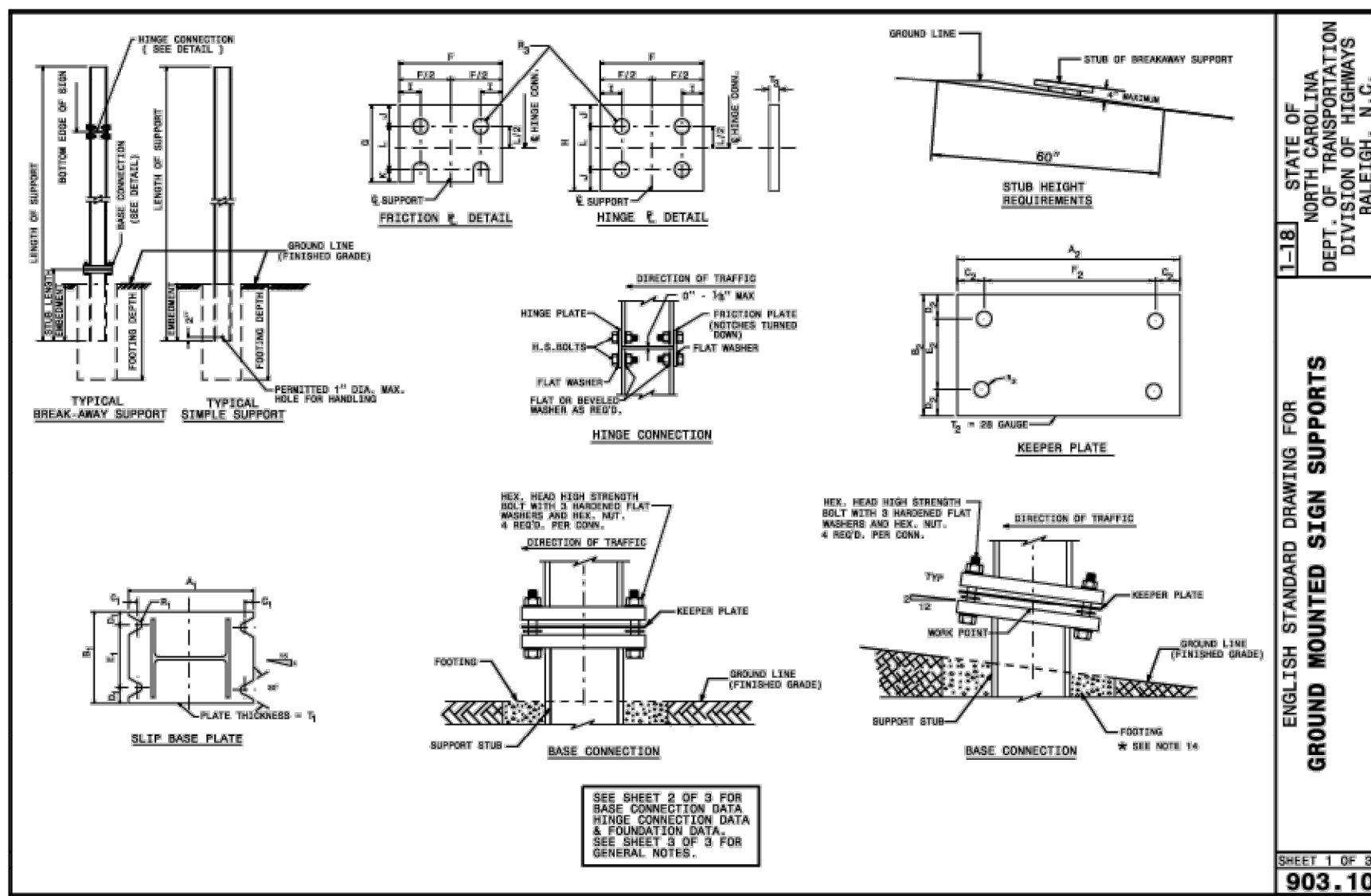
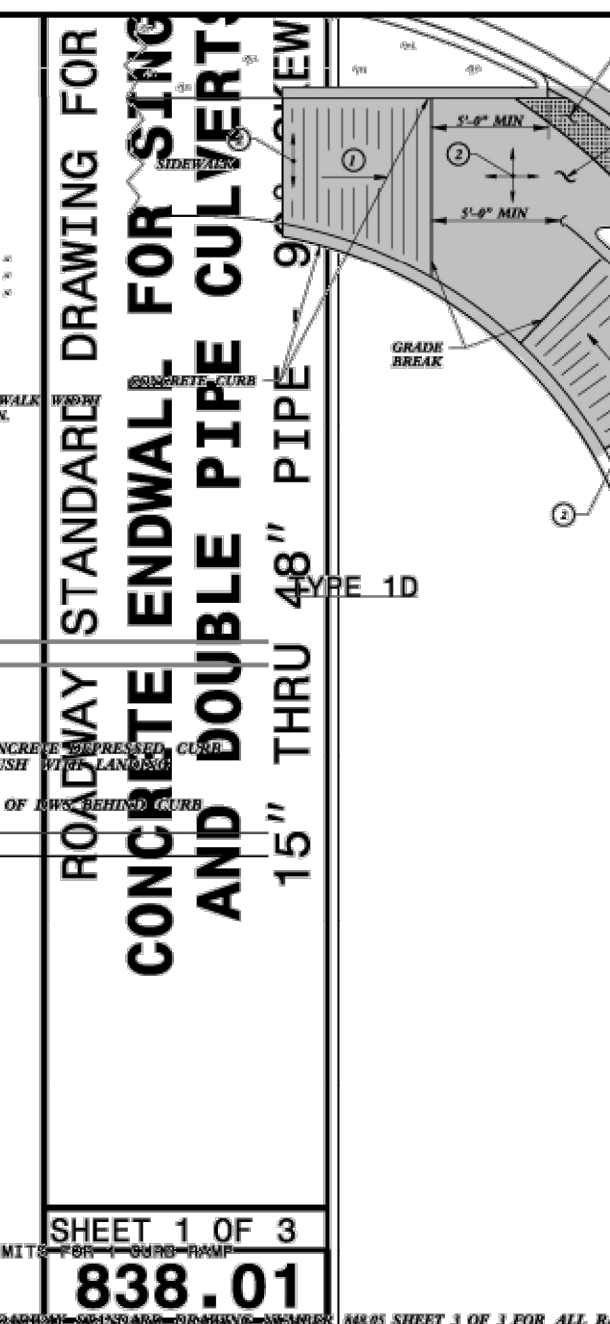
TYPE 10JC

TYPE 10JD

TYPE 10JE

TYPE 10JF

TYPE



ROADWAY STANDARD DRAWING FOR

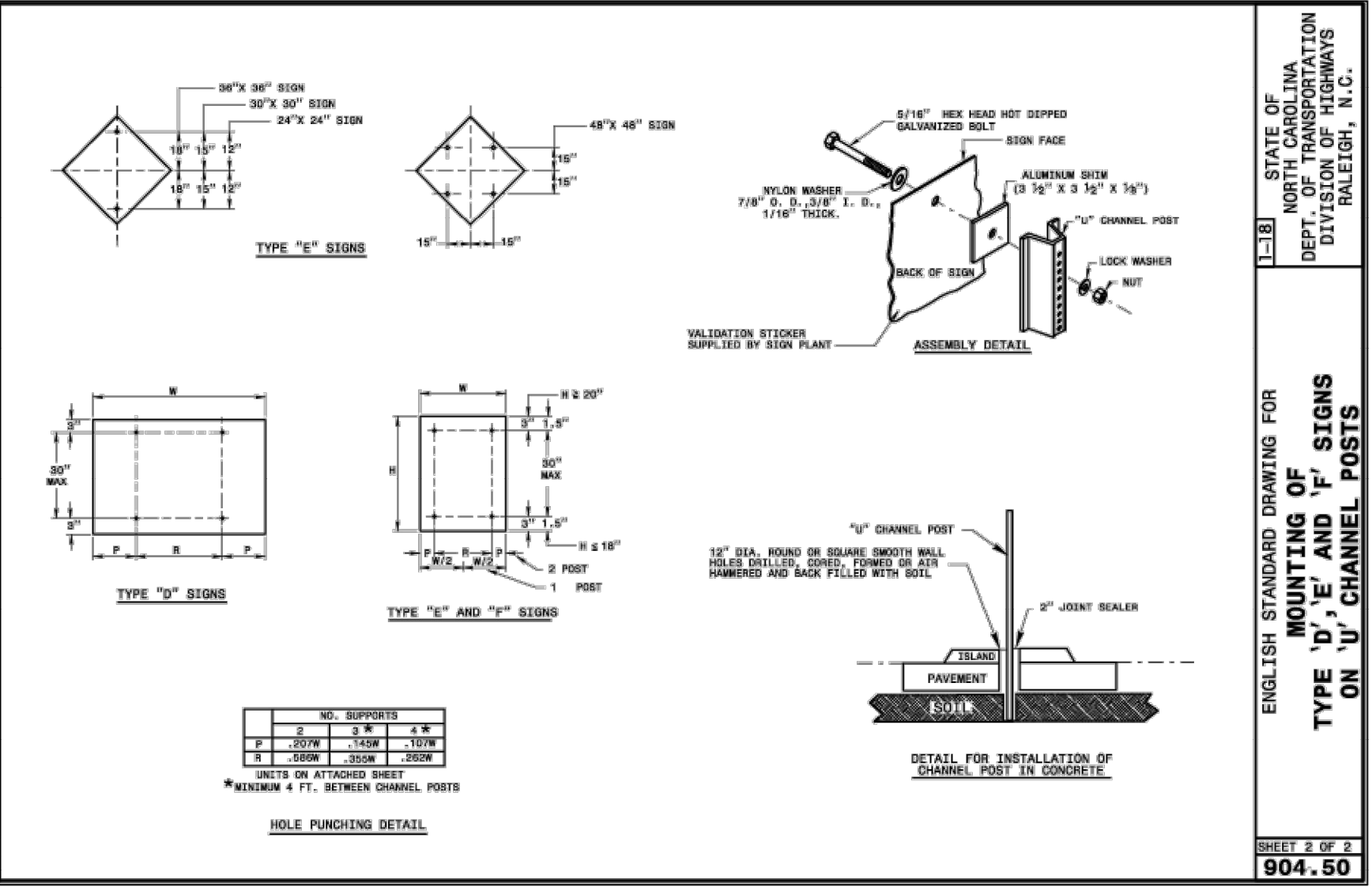
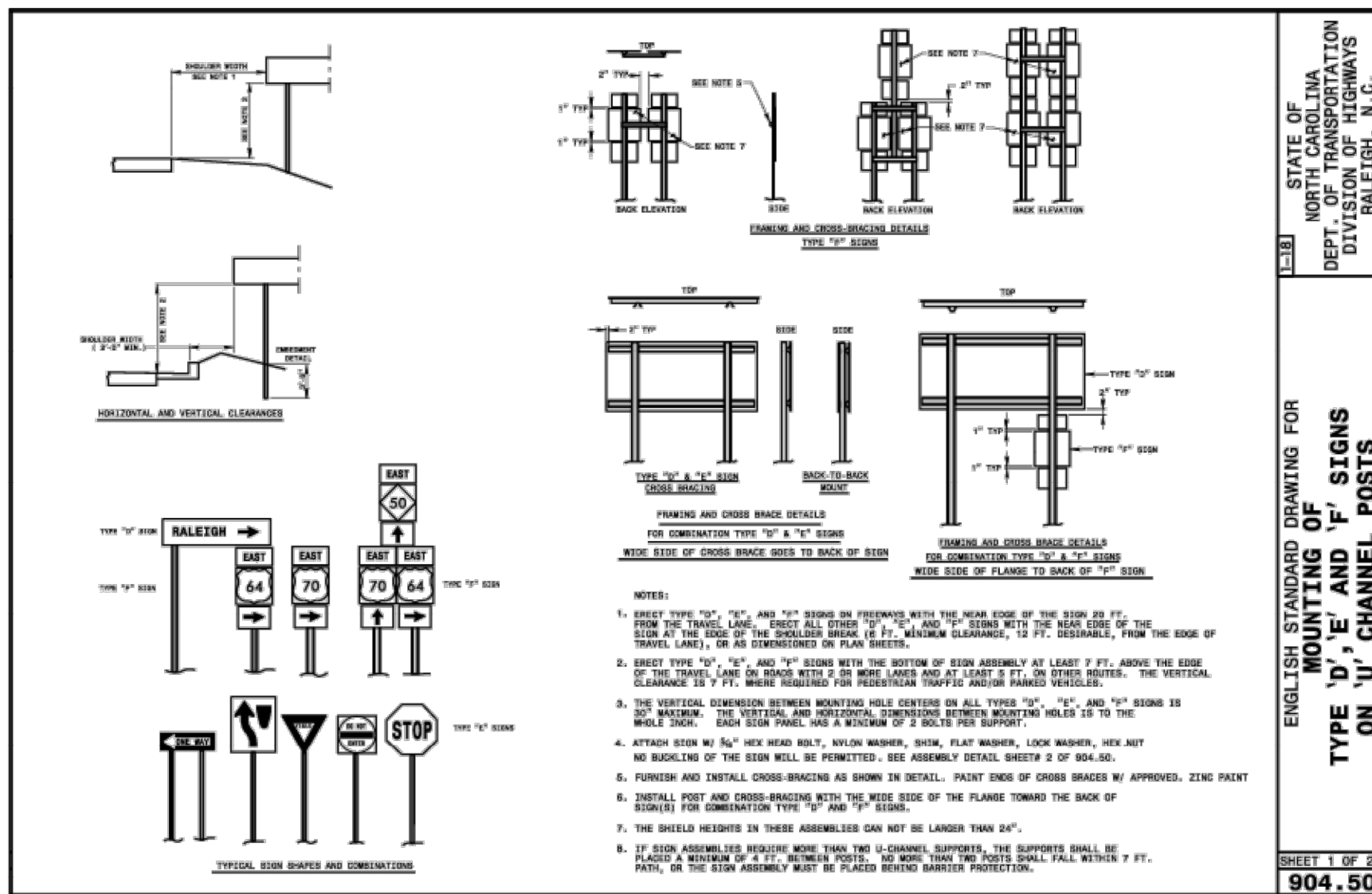
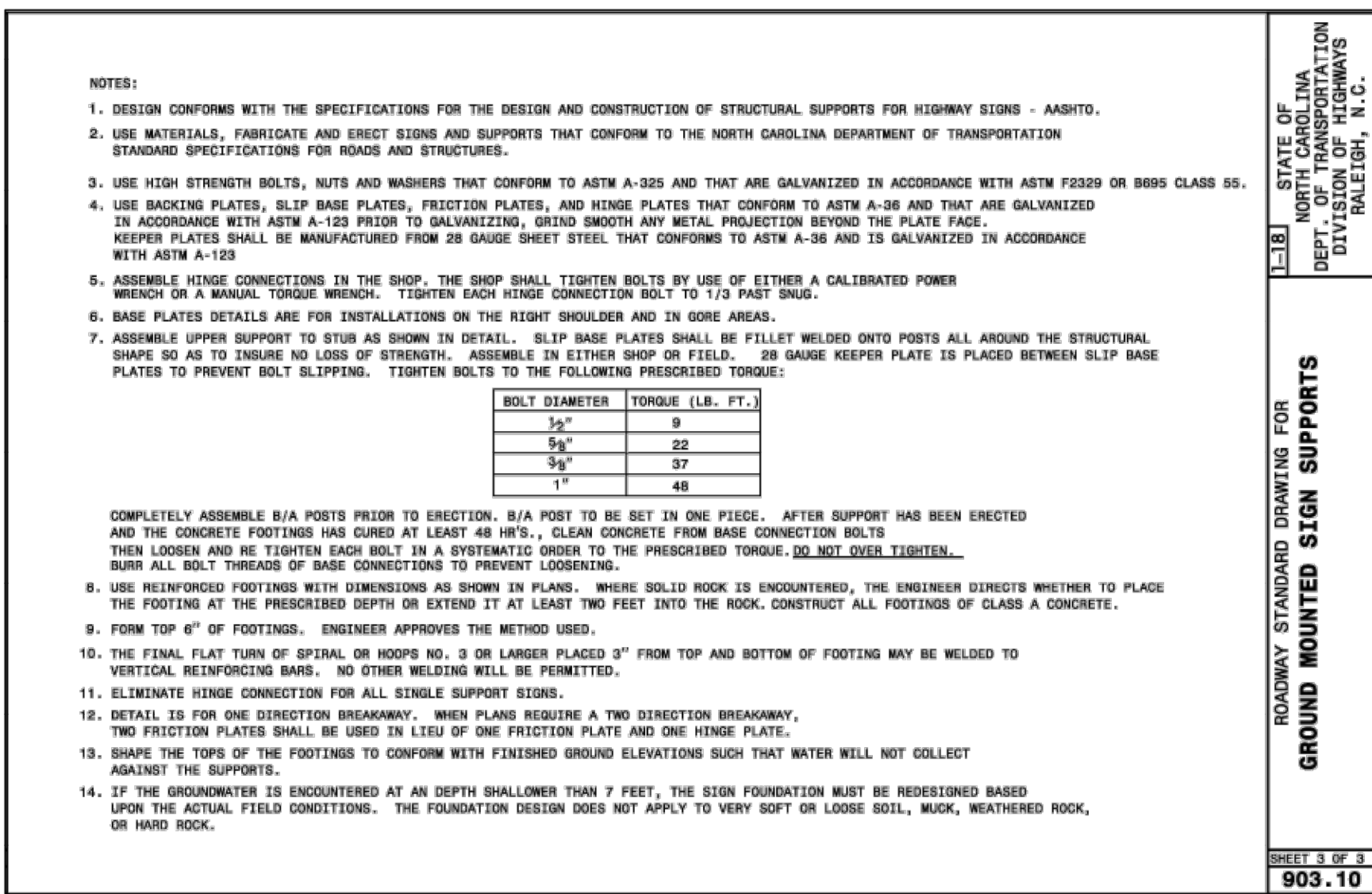
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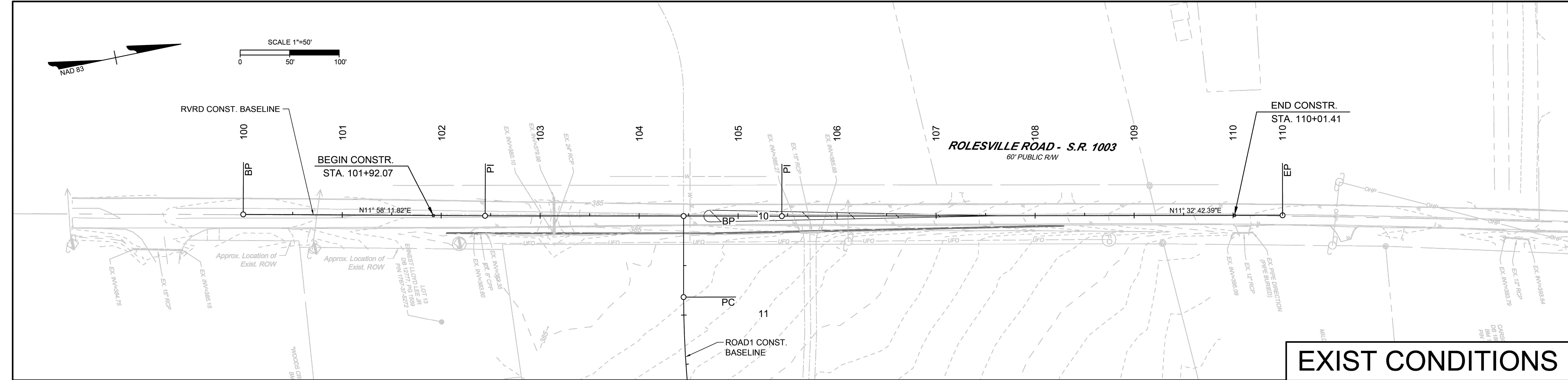
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STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF
RAILROADS

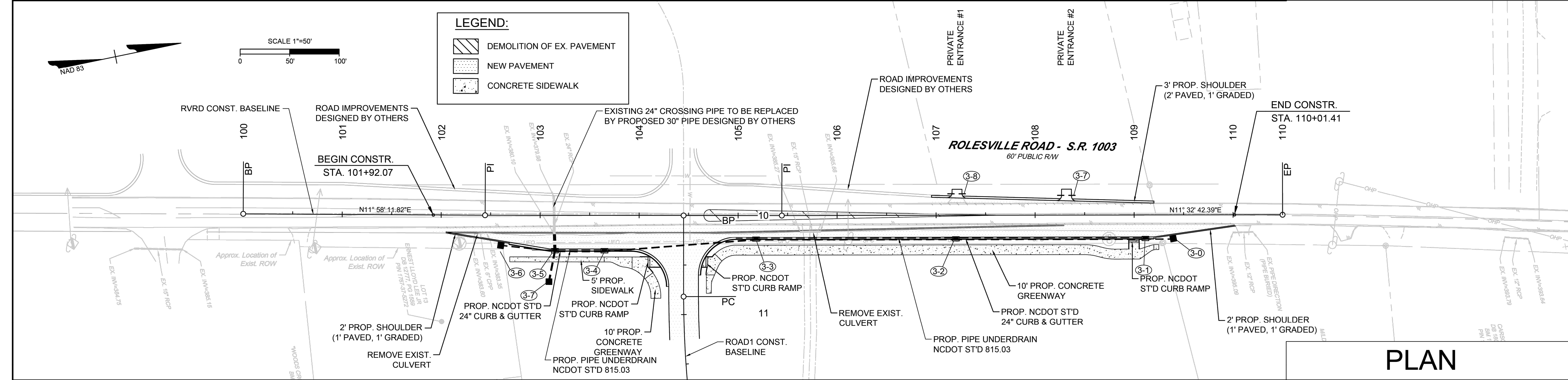
SHEET 2 OF 3
903.1

SLT BASE PLATE DATA										KEEPER PLATE DATA										HINGE CONNECTION DATA										PEAK ANGLE RESISTANCE CAPACITY	
SEAL NUMBER	SEAL SIZE	A ₁	B ₁	C ₁	T ₁	E ₁	F ₁	G ₁	H ₁	A ₂	B ₂	C ₂	T ₂	E ₂	F ₂	G ₂	H ₂	T ₃		BOLT SIZE	F	G	H	I	J	K	L	M	N	O	
0003.3	5/8"x24"x 3/16"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0447.7	5/8"x24"x 3/16"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0609	5/8"x24"x 3/16"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
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0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
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0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
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0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
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0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
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0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
0610.1	5/8"x24"x 4"	3"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	4"	1"	16"	1/16"x1"	1"	3/8"	2"	4"	16" GRANGE	"1/2"x24"x1/16"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	10
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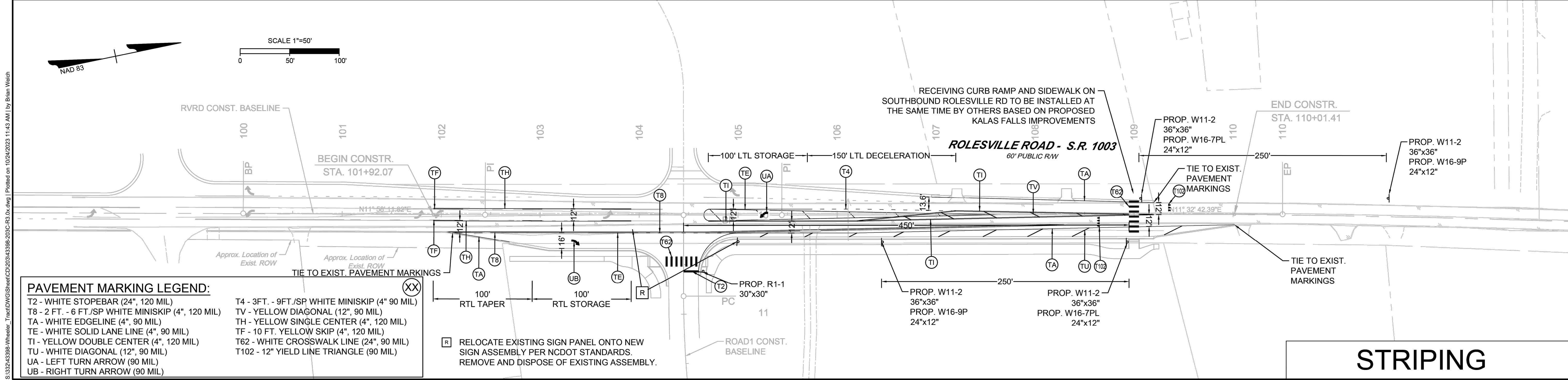




EXIST CONDITIONS



PLAN

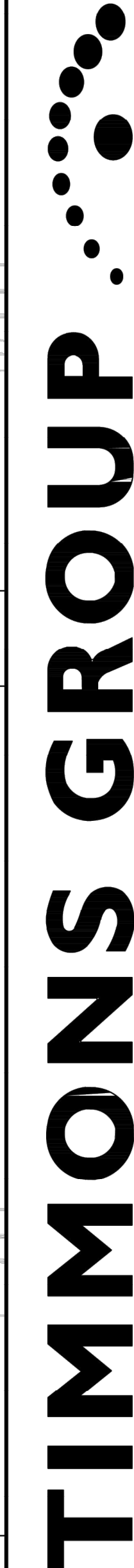


PAVEMENT MARKING LEGEND:

- T2 - WHITE STOPEBAR (24", 120 MIL)
- T8 - 2 FT. - 6 FT./SP WHITE MINISKIP (4", 120 MIL)
- TA - WHITE EDGELINE (4", 90 MIL)
- TE - WHITE SOLID LANE LINE (4", 90 MIL)
- TI - YELLOW DOUBLE CENTER (4", 120 MIL)
- TU - WHITE DIAGONAL (12", 90 MIL)
- UA - LEFT TURN ARROW (90 MIL)
- UB - RIGHT TURN ARROW (90 MIL)
- T4 - 3 FT. - 9 FT./SP WHITE MINISKIP (4" 90 MIL)
- TV - YELLOW DIAGONAL (12", 90 MIL)
- TH - YELLOW SINGLE CENTER (4", 120 MIL)
- TF - 10 FT. YELLOW SKIP (4", 120 MIL)
- T62 - WHITE CROSSWALK LINE (24", 90 MIL)
- T102 - 12" YIELD LINE TRIANGLE (90 MIL)

[R] RELOCATE EXISTING SIGN PANEL ONTO NEW SIGN ASSEMBLY PER NCDOT STANDARDS. REMOVE AND DISPOSE OF EXISTING ASSEMBLY.

STRIPING



WHEELER TRACT - OFFSITE IMPROVEMENTS

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EXISTING CONDITIONS & PLAN & STRIPING SHEET

THIS DRAWING PREPARED AT THE
RALEIGH OFFICE
5410 Trinity Road, Suite 112 | Raleigh, NC 27607
TEL 919.866.4951 FAX 919.833.8124 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE

06-15-2023

DATE

07/21/22

DRAWN BY

BPW

DESIGNED BY

BPW

CHECKED BY

BPW

SCALE

1" = 50'

JOB NO.

43398

SHEET NO.

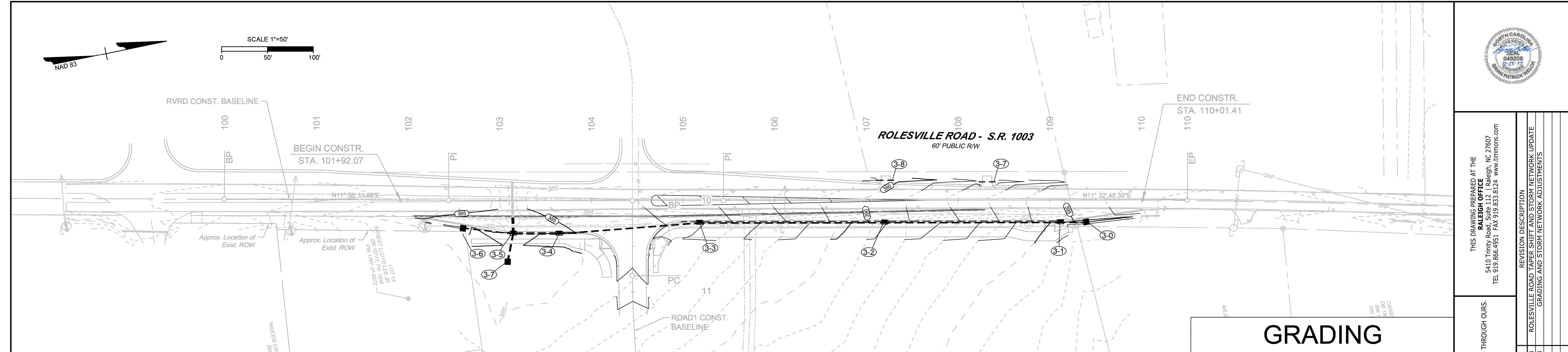
R3.01

REVISION DESCRIPTION

ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE

GRADING AND STORM NETWORK ADJUSTMENTS

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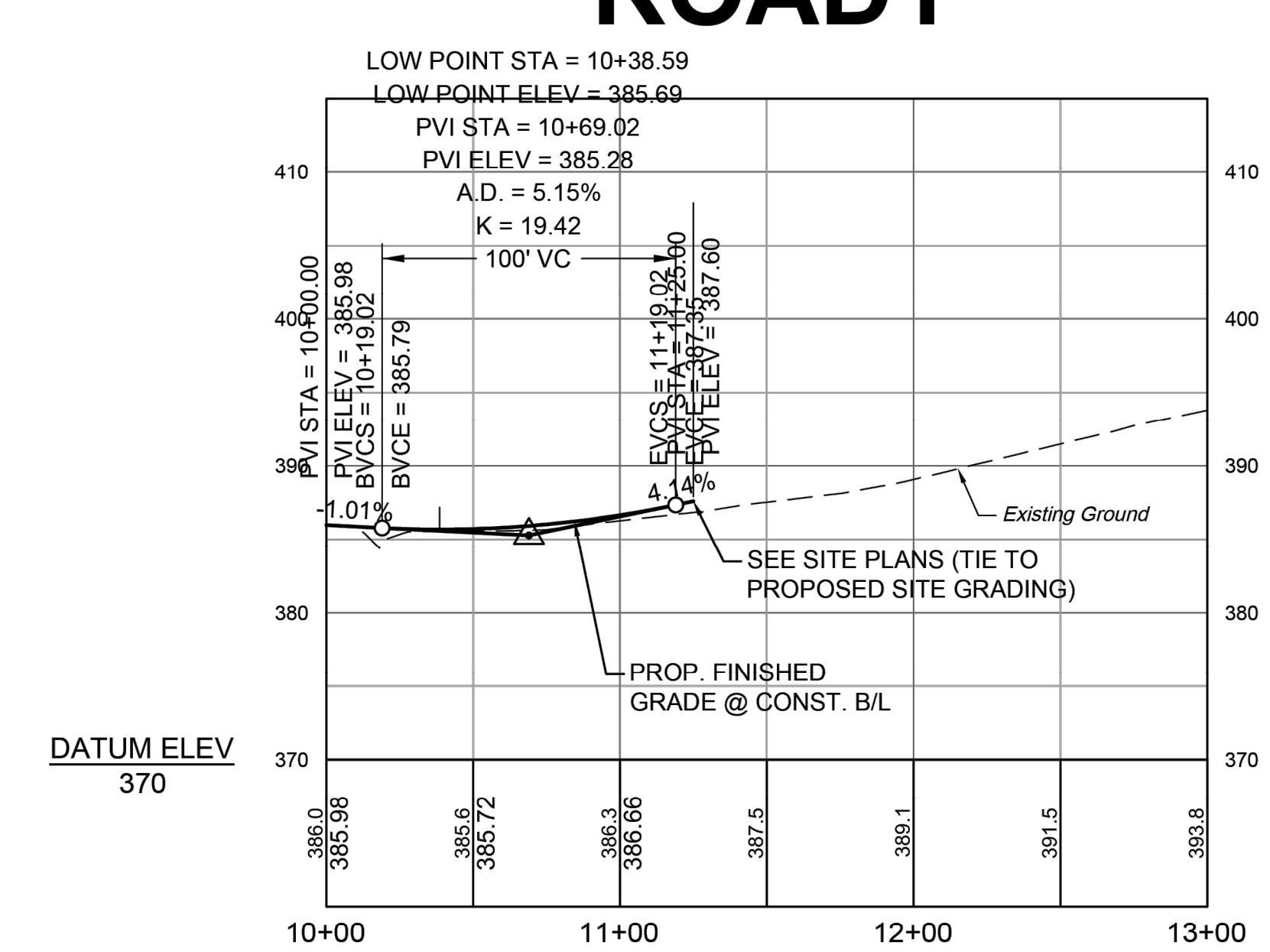
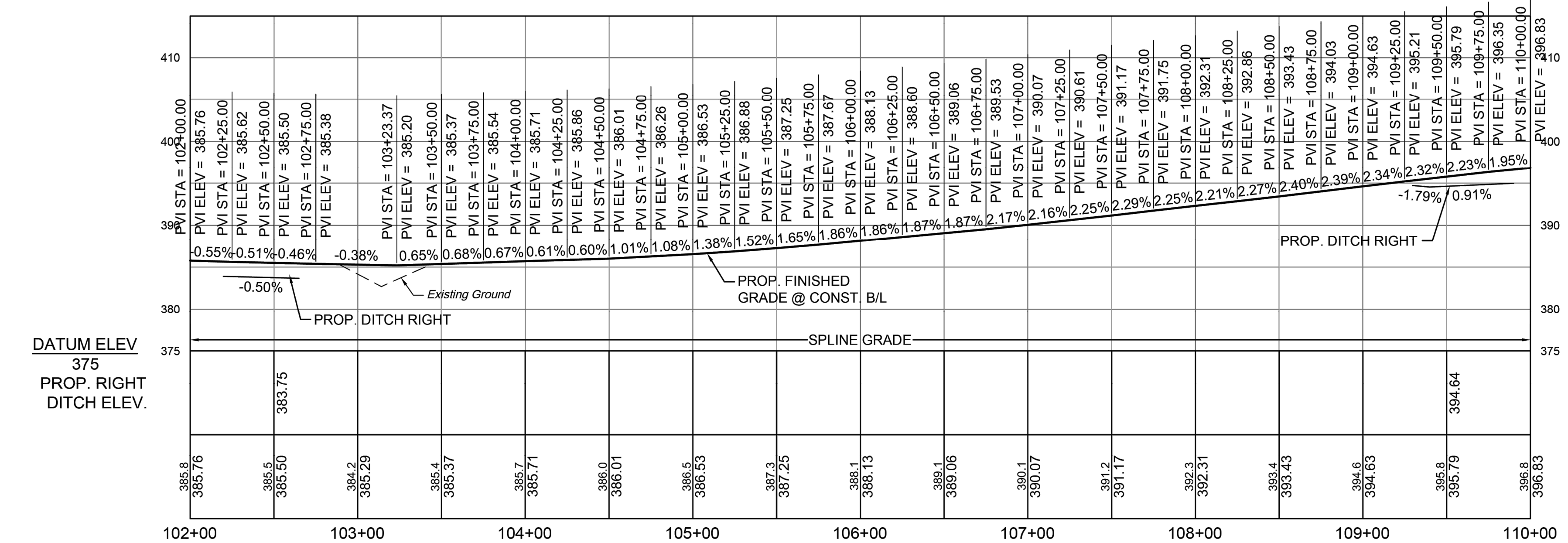


PROFILE

RVRD

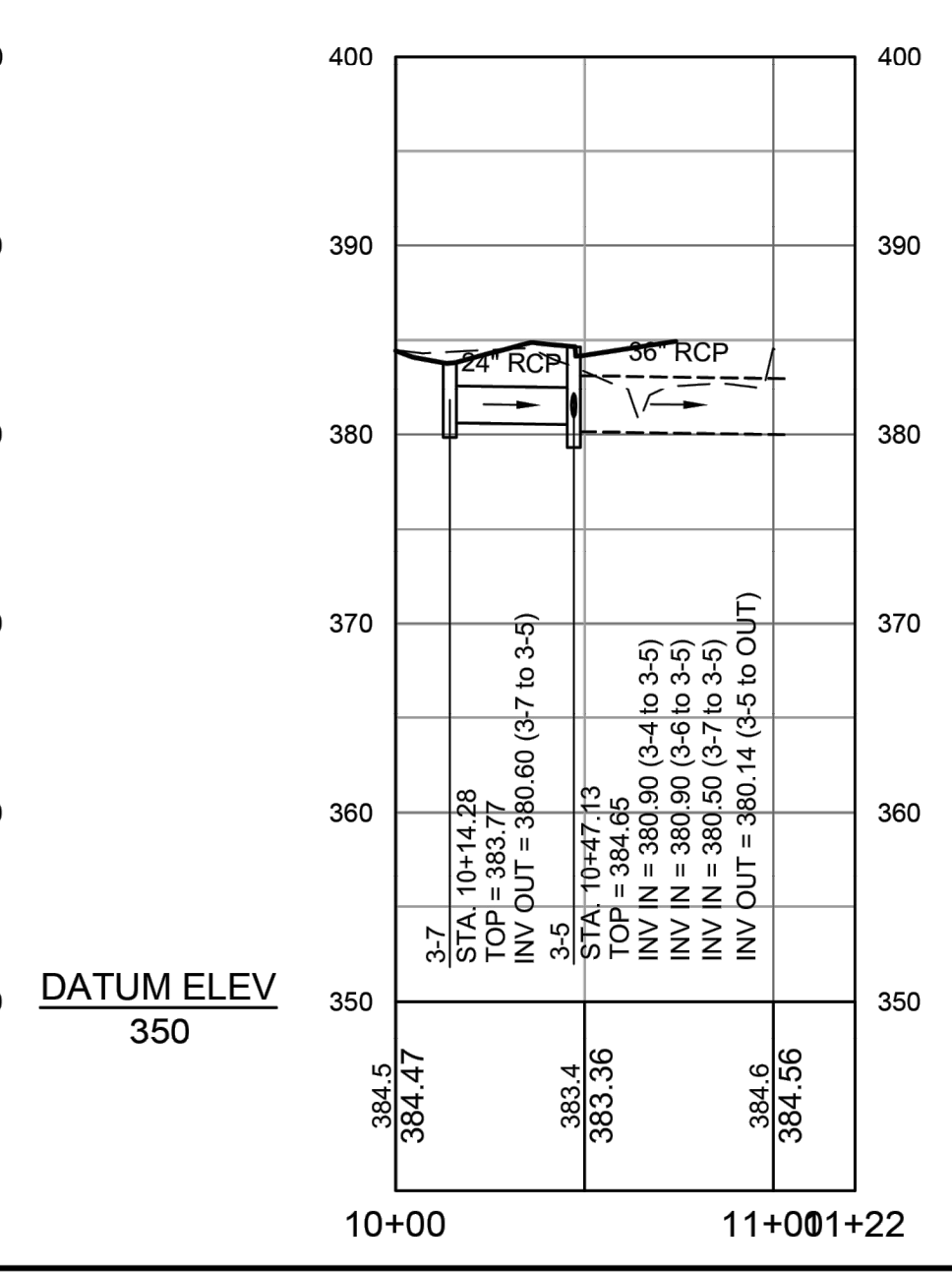
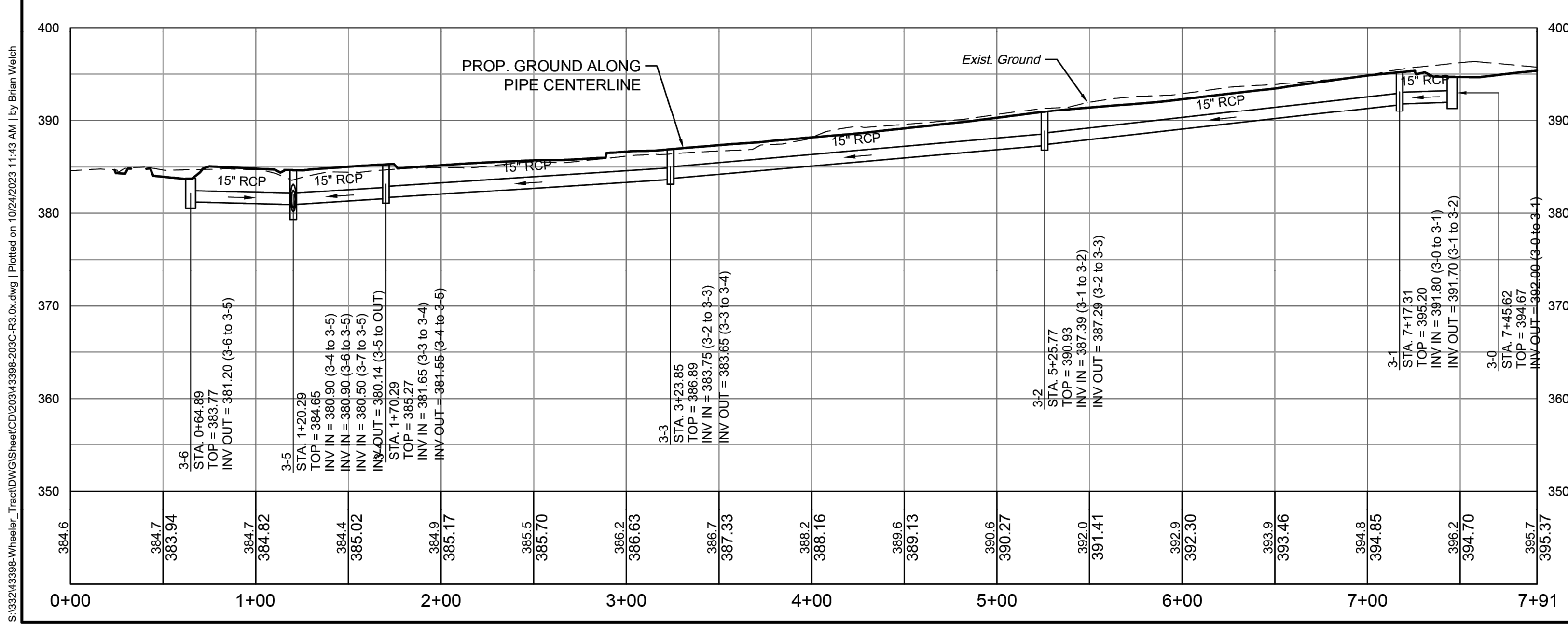
ROAD1

GRADING



STM ROLESVILLE RD

STRM 3-7 TO OUTFALL



STORM STRUCTURE TABLE STM Rolesville Road				
STR. #	TOP	INV. IN	INV. OUT	DESCRIPTION
3-6	383.77'		381.20' (15" RCP TO 3-5)	NCDOT 840.14 CONCRETE DI
3-5	384.65'	380.90' (15" RCP FROM 3-4) 380.90' (15" RCP FROM 3-6)	380.14' (36" RCP TO OUT)	NCDOT 840.02 CONCRETE CB
3-4	385.27'	381.65' (15" RCP FROM 3-3)	381.55' (15" RCP TO 3-5)	NCDOT 840.02 CONCRETE CB
3-3	386.89'	383.75' (15" RCP FROM 3-2)	383.65' (15" RCP TO 3-4)	NCDOT 840.02 CONCRETE CB
3-2	390.93'	387.39' (15" RCP FROM 3-1)	387.29' (15" RCP TO 3-3)	NCDOT 840.02 CONCRETE CB
3-0	394.67'		392.00' (15" RCP TO 3-1)	NCDOT 840.14 CONCRETE DI
3-1	395.20'	391.80' (15" RCP FROM 3-0)	391.70' (15" RCP TO 3-2)	NCDOT 840.02 CONCRETE CB

STORM PIPE TABLE STM Rolesville Road								DRAINAGE
FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DIA.	MATERIAL	DESCRIPTION	
3-0 - 3-1	392.00'	391.80'	0.71%	28.30 LF	15"	RCP	CLASS III	
3-1 - 3-2	391.70'	387.39'	2.25%	191.54 LF	15"	RCP	CLASS III	
3-2 - 3-3	387.29'	383.75'	1.75%	201.92 LF	15"	RCP	CLASS III	
3-3 - 3-4	383.65'	381.65'	1.30%	153.56 LF	15"	RCP	CLASS III	
3-4 - 3-5	381.55'	380.90'	1.30%	50.00 LF	15"	RCP	CLASS III	
3-5 - 3-6	381.20'	380.90'	0.55%	54.98 LF	15"	RCP	CLASS III	
OUT - 3-5	379.98'	380.14'	0.29%	55.64 LF	36"	RCP	EXIST. PIPE	

PROFILE

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REVISION DESCRIPTION

DATE	DESCRIPTION
06-15-2023	ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE
10-24-2023	GRADING AND STORM NETWORK ADJUSTMENTS

DATE
07/21/22

DRAWN BY
BPW

DESIGNED BY
BPW

CHECKED BY
BPW

SCALE
1" = 50'

TIMMONS GROUP

WHEELER TRACT - OFFSITE IMPROVEMENTS
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

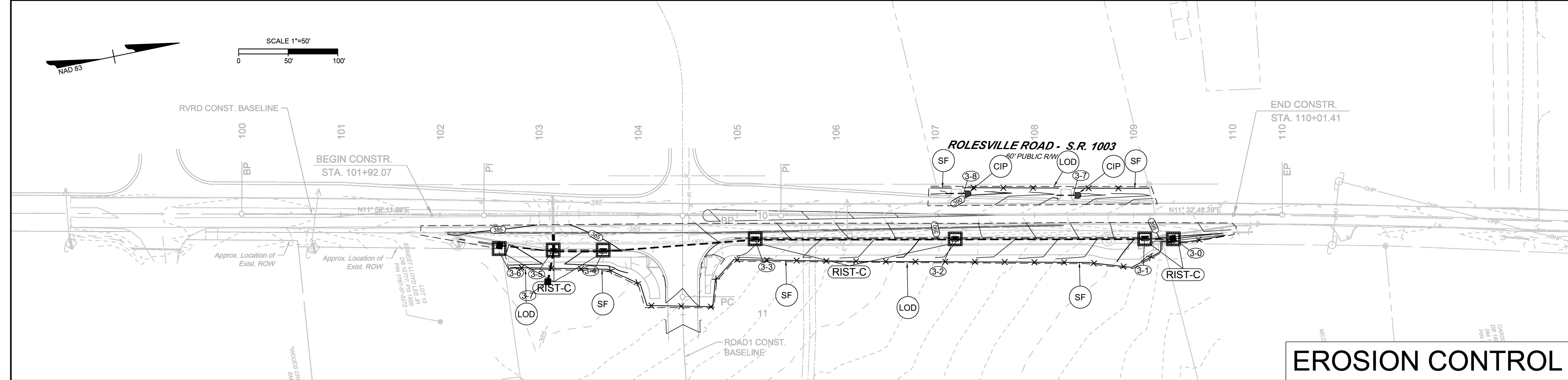
JOB NO.
43398

SHEET NO.
R3.02

GRADING & PROFILE SHEET

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EROSION CONTROL NOTES & DETAILS

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO WIDEN ROLESVILLE ROAD AND MITCHELL MILL ROAD TO THE ONE-HALF THE ULTIMATE CROSS SECTION PER THE TOWN'S COMPREHENSIVE TRANSPORTATION PLAN. THESE IMPROVEMENTS SPAN FOR THE ENTIRE FRONTAGE SITE DEVELOPMENT PER TOWN UDO REQUIREMENTS. ADDITIONAL IMPROVEMENTS INCLUDE STRIPING AND DITCHES.

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION EROSION AND SEDIMENT CONTROL DESIGN AND CONSTRUCTION MANUAL. THE MINIMUM STANDARDS SET FORTH BY THIS MANUAL SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

EROSION CONTROL SEQUENCE OF CONSTRUCTION

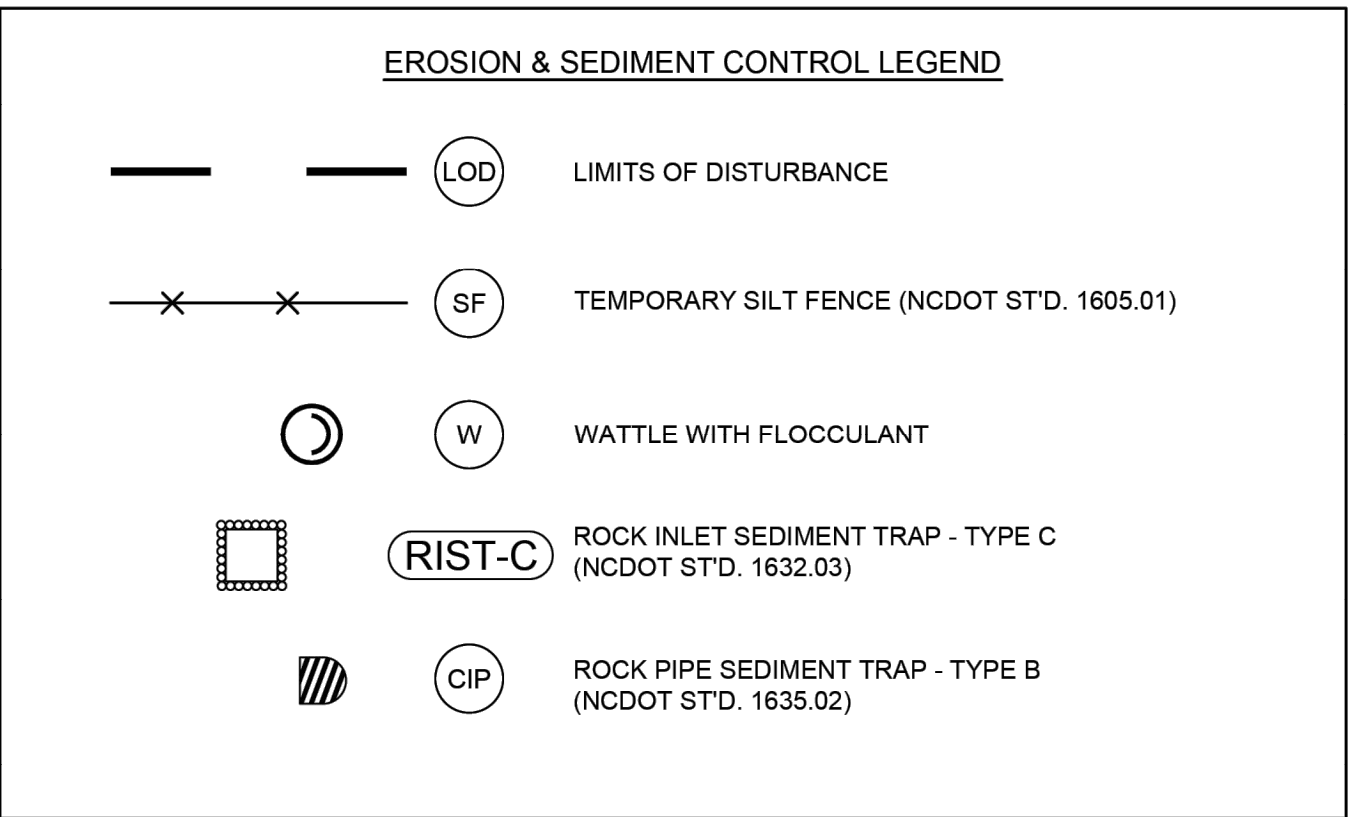
A SINGLE-PHASED EROSION CONTROL APPROACH IS PROVIDED BELOW TO DESCRIBE GENERAL MEASURES REQUIRED TO MAINTAIN THE SITE THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL APPLY PHASE I AS DESCRIBED HEREIN TO THE VARIOUS WORK AREAS ASSOCIATED WITH THIS PROJECT. DUE TO THE NATURE OF WORK AREAS, THE CONTRACTOR SHALL ENSURE EROSION CONTROL MEASURES ARE PROVIDED AS DESCRIBED THROUGH PROJECT COMPLETION AND ACCEPTANCE.

PHASE I:

- PROVIDE MINIMAL CLEARING TO INSTALL SILT FENCE AS SHOWN ON THE PLANS. INSTALL CULVERT PROTECTION AS REQUIRED FOR EXISTING PIPES. TAKE SPECIAL CARE TO KEEP SOIL BUILD-UP FROM ENTERING THE EXISTING ROAD PAVEMENT.
- THE CONTRACTOR WILL NOTIFY THE INSPECTOR OF THE PERMITTED LOCATION EXCESS SOIL MATERIAL IS HAULED TO OR BORROW MATERIAL IS BROUGHT IN FROM. CLEAR AND GRUB AS INDICATED IN THE PLANS. MAINTAIN ACCESS ALONG EXISTING ROADS AND TO EXISTING DRIVEWAYS AT ALL TIMES.
- TEMPORARY GRADING AND SEEDING IS REQUIRED FOR ALL AREAS WHEN DIRECTED:
 - WHEN IT IS IMPOSSIBLE OR IMPRACTICAL TO BRING AN AREA TO THE FINAL LINE, GRADE AND FINISH SO THAT PERMANENT SEEDING AND MULCHING OPERATIONS CAN BE PERFORMED WITHOUT SUBSEQUENT SERIOUS DISTURBANCE BY ADDITIONAL GRADING
 - WHEN EROSION OCCURS OR IS CONSIDERED TO BE POTENTIALLY SUBSTANTIAL ON AREAS OF GRADED ROADBED WHERE CONSTRUCTION OPERATIONS ARE TEMPORARILY SUSPENDED OR WHEN THE GRADING OF THE ROADBED HAS BEEN COMPLETED SUBSTANTIALLY IN ADVANCE OF THE PAVING CONSTRUCTION DURING SEASONS OF THE YEAR WHEN PERMANENT SEEDING AND MULCHING IS PROHIBITED BY THE CONTRACT
 - WHEN AN IMMEDIATE COVER WOULD BE DESIRABLE TO MINIMIZE EROSION, SILTATION OR POLLUTION ON ANY AREA
 - 7/14-DAY SOIL STABILIZATION REQUIREMENTS APPLY TO ANY SECTION OF THE PROJECT WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED AND SHALL SUPERSEDE ANY LESS STRINGENT STABILIZATION REQUIREMENTS ON THE PLANS. [G.S. 143-215.1]
- CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED EROSION CONTROL MEASURES UNTIL FINAL APPROVAL OF CONSTRUCTION.
- THE SITE SHALL BE PERMANENTLY STABILIZED AFTER ALL GRADING HAS BEEN COMPLETED BY SEEDING ALL DISTURBED AREAS.
- UPON CONSTRUCTION COMPLETION, THE CONTRACTOR MUST CONTACT THE INSPECTOR FOR EROSION CONTROL INSPECTION OF SLOPE STABILITY. EROSION CONTROL MEASURES MAY NOT BE REMOVED WITHOUT AUTHORIZATION BY THE ASSIGNED INSPECTOR.
- UPON APPROVAL CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES.

NOTE:

- CONTRACTOR MUST KEEP THE EXISTING ROAD FREE FROM BUILDUP OF SOIL.



STABILIZATION REQUIREMENTS:

Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective April 1, 2019 issued by the North Carolina Department of Environment and Natural Resources. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity, with the following exceptions in which temporary or permanent ground cover shall be provided in 14 calendar days from the last land-disturbing activity:

- Slopes between 2:1 and 3:1, with a slope length of 10 ft. or less
- Slopes 2:1 or flatter, with a slope length of 50 ft. or less
- Slopes 4:1 or flatter

The stabilization timeframe for High Quality Water (HQW) Zones shall be 7 calendar days with no exceptions for slope grades or lengths. High Quality Water Zones (HQW) Zones are defined by North Carolina Administrative Code 15A NCAC 04A.0105 (2). Temporary and permanent ground cover stabilization shall be achieved in accordance with the provisions in this contract and as directed.

SEEDING AND MULCHING:

(EAT)

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

All Roadway Areas

March 1 - August 31	September 1 - February 28
25# Tall Fescue	50# Tall Fescue
10# Centipede	10# Centipede
25# Bermudagrass (unfilled)	35# Bermudagrass (unfilled)
500# Fertilizer	500# Fertilizer
4000# Limestone	4000# Limestone

Waste and Borrow Locations

March 1 - August 31	September 1 - February 28
75# Tall Fescue	75# Tall Fescue
25# Bermudagrass (unfilled)	35# Bermudagrass (unfilled)
500# Fertilizer	500# Fertilizer
4000# Limestone	4000# Limestone

Note: 50# of Bahiagrass may be substituted for either Centipede or Bermudagrass only upon Engineer's request.

Approved Tall Fescue Cultivars

06 Dunt	Escalade	Justice	Savonget
2nd Millennium	Essential	Kolobart	Shelby
3rd Millennium	Evergreen 2	Kinny Hawk 2000	Sheridan
Apache III	Falcon IV	Legitimate	Sigma
Avenge	Falcon XG	Lexington	Silver Hawk
Balances	Falcon V	LSD	Silverstar
Barbours II	Faith	Magnum	Shamrock Elite
Bar Pa	Fat Cat	Mandor	Sidewinder
Barren	Fernova	Millennium SRP	Skyline
Barrington	Fidelity	Moist	Solara
Barrovento	Finalewa Elite	Mustang 4	Southern Choice II
Barrabito	Finalewa Xpress	Ninja 2	Speedway
Bilmore	Fiance II	Of Glory	Spryler LS
Bingo	Firebird	Olympic Gold	Sunset Gold
Bilmo	Firecracker LS	Palde	Tacco
Blackwack	Firesa	Pangonia	Tanzania
Blade Runner II	Five Point	Pedigree	Tio
Bonast	Focus	Picasso	Tobacco II
Brevesart	Fortis	Piedmont	Tolladega
Bravo	Garrison	Platinum	Tulene
Bullseye	Grassie II	Prosecco 5301	Turmo
Canavaro	Gold Medalion	Prospect	Titanium LS
Candyst	Grassie 3	Pure Gold	Tracer
Cayenne	Greenbrook	Quest	Transverse SRP
Cenosa R2	Greenkeeper	Raptor II	Trio Time
Chaper	Grovin	Rabel Emerald	Turbo RZ
Cochise IV	Greystone	Rabel Sentry	Turbo RZ
Continuation	Guardian 21	Rabel IV	Turbo RZ
Cort	Guardian 41	Regiment II	Ultimate
Corona	Heat	Regenerate	Ultimate
Coyote	Heavy Truck	Reposition	Venue
Darlington	Hot Rod	Rhambler 2 SRP	Unshaken
Dartici	Hummer	Rambler	Van Gogh
Devise	Indefence	Rennin	Watchdog
Domination	Innovator	Riverside	Wolfpack II
Dynamic	Integrity	RSP	XtremeGreen
Dynasty	Jaguar 3	Rocket	
Endeavor	Jamboree	Scorpion	

On cut and fill slopes 2:1 or steeper Centipede shall be applied at the rate of 5 pounds per acre and add 20# of Sericea Lespedeza from January 1 - December 31.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-3 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

TEMPORARY SEEDING:

Fertilizer shall be the same analysis as specified for Seeding and Mulching and applied at the rate of 400 pounds and seeded at the rate of 50 pounds per acre. Sweet Sudan Grass, German Millet or Browning Millet shall be used in summer months and Pigeon Grass during the remainder of the year. The Engineer will determine the exact dates for using each kind of seed.

FERTILIZER TOPDRESSING:

Fertilizer used for topdressing on all roadway areas except slopes 2:1 and steeper shall be 10-20-20 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 1-2-3 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 10-20-20 analysis and as directed.

Fertilizer used for topdressing on slopes 2:1 and steeper and waste and borrow areas shall be 16-8-8 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 1-2-3 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 16-8-8 analysis and as directed.

SUPPLEMENTAL SEEDING:

The kinds of seed and proportions shall be the same as specified for Seeding and Mulching, with the exception that no centipede seed will be used in the seed mix for supplemental seeding. The rate of application for supplemental seeding may vary from 25# to 75# per acre. The actual rate per acre will be determined prior to the time of topdressing and the Contractor will be notified in writing of the rate per acre, total quantity needed, and areas on which to apply the supplemental seed. Minimum tillage equipment, consisting of a soil seeder shall be used for incorporating seed into the soil so as to prevent disturbance of existing vegetation. A clothseeder (roll and chain) may be used where degree of slope prevents the use of a soil seeder.

MOWING:

The minimum mowing height on this project shall be 4 inches.

Mulching Materials and Application Rates

Material	Rate Per Acre	Quality	Notes
Organic Mulches	1-2 tons	Dry, unrotted, unweeded, avoid weeds.	Should come from within or onto: spread by hand or machine; must be tacked down.
Wood chips	5-6 tons	Air dry	Tack with 10 lbs nitrogenizer. Apply with brush blower, chip loader, or by hand. Not for use in fine turf.
Wood fiber	0.5-1 ton		Also referred to as wood shavings. May be hydroseeded. Do not use in hot, dry weather.
Straw	20 cubic yards	Air dry, shredded or hammer-milled, or chips.	Apply with mulch blower, chip loader, or by hand. Do not use applied back.
Com straw	4-6 tons	Cut or shredded in 4-6 in. lengths.	Apply with mulch blower or by hand. Not for use in fine turf.
Green mulch	1-3 tons	Green or dry; should contain no weeds.	
Wet soil mix	Cover area	Heavy uniform; water of single late year.	Withstands weather. Best when used with organic mulch.
Alum mix	Cover area		Withstands weather. Best when used with organic mulch.
Fibergrass mat	Cover area		Withstands weather.
Excelsior (wood fiber)	Cover area		
Fibergrass mat	0.5-1 ton	Continuous layer of straw glass bound together with a soil-based agent.	Apply with a compressed air ejector. Tack with straw/seed applied at a rate of 25-30 lbs/1,000 sq. ft.

Chemical Stabilizers

Apply to Practice No. 0.28, Green Line Chemical.

*Use of trade names does not imply endorsement of product.

NOTES

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WHEELER TRACT - OFFSITE IMPROVEMENTS

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

EROSION CONTROL PLAN

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REVISION DESCRIPTION

ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE
GRADING AND STORM NETWORK ADJUSTMENTS

DATE

06-15-2023

10-24-2023

DATE

07/21/22

DRAWN BY

BPW

DESIGNED BY

BPW

CHECKED BY

BPW

SCALE

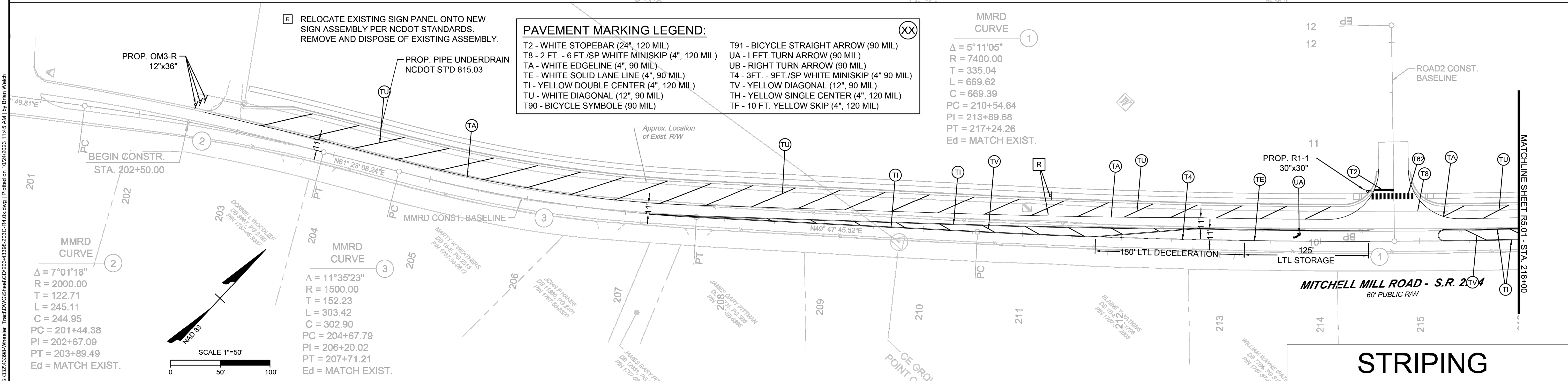
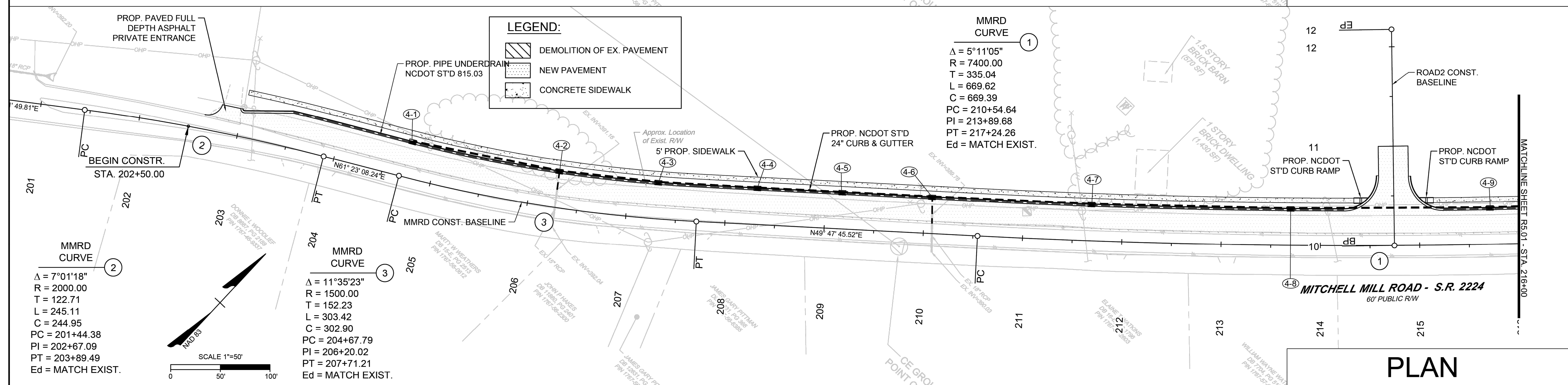
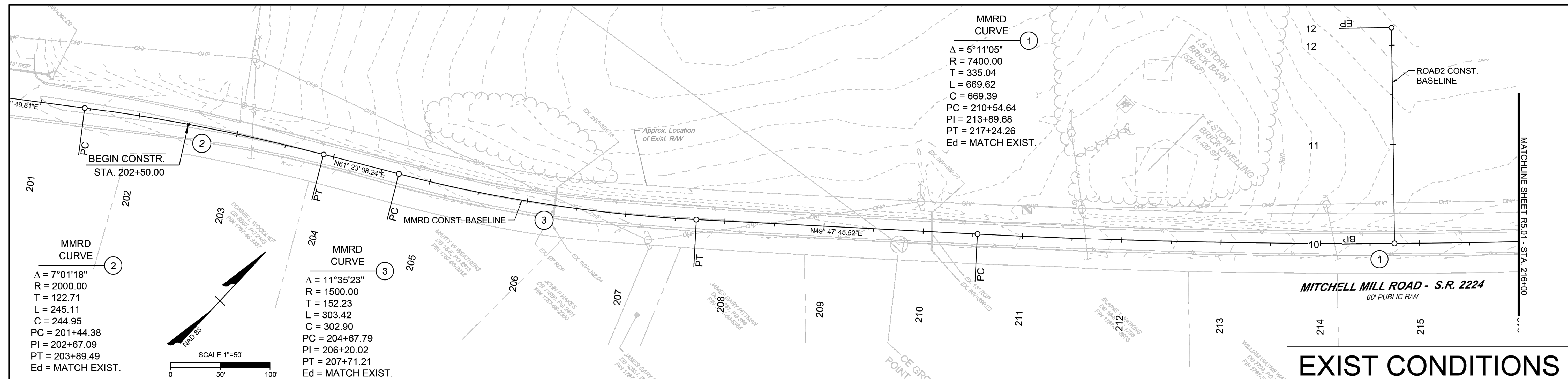
JOB NO.

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SHEET NO.

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REVISION DESCRIPTION
ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE CRADING AND STORM NETWORK ADJUSTMENTS

DATE	
06-15-2023	D 07/2
10-04-2023	DRA B
	DESIGN B
	CHECK B
	SC 1"

The logo for the Timmons Group, featuring the company name in a bold, sans-serif font, with a stylized graphic of dots forming a curved path above the text.

WHEELER TRACT - OFFSITE IMPROVEMENTS

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

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MATCHLINE SHEET R4.01 - STA. 216+00

MATCHLINE SHEET R4.01 - STA. 216+00

MATCHLINE SHEET R4.01 - STA. 216+00

KAYLA J. BOGGS
DA 1632, PG 1638
PIN 1707-57-3620

KAYLA J. BOGGS
DA 1632, PG 1638
PIN 1707-57-3620

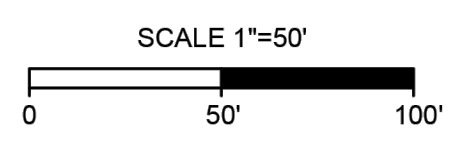
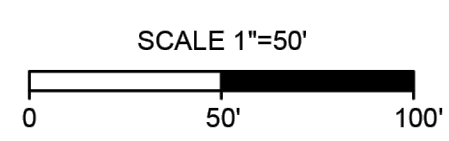
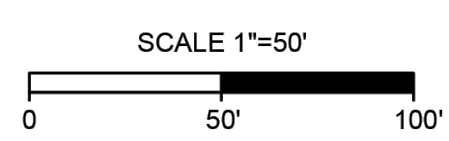
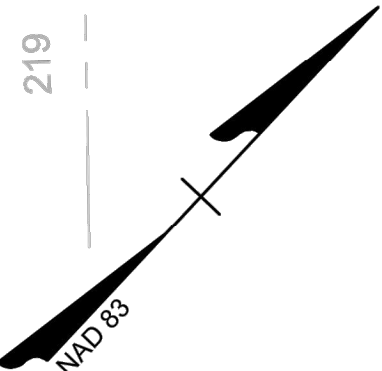
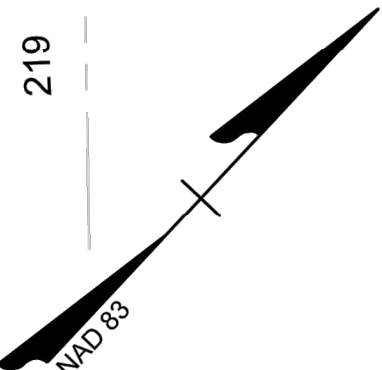
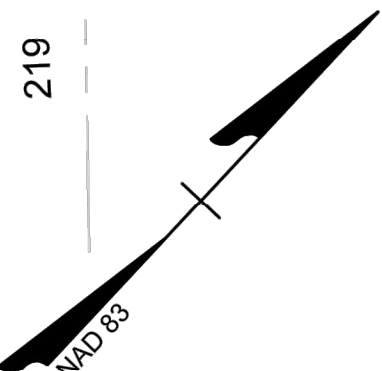
JUSTIN THOMAS HARRIS
DA 1561, PG 242
PIN 1707-58-8632

JUSTIN THOMAS HARRIS
DA 1561, PG 242
PIN 1707-58-8632

Approx. Location
of Exist. R/W

Approx. Location
of Exist. R/W

Approx. Location
of Exist. R/W



END CONSTR.
STA. 220+74.49

END CONSTR.
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GRAHAM J. JOHNSON JR.
DA 1632, PG 1638
PIN 1707-57-3620

GRAHAM J. JOHNSON JR.
DA 1632, PG 1638
PIN 1707-57-3620

GRAHAM J. JOHNSON JR.
DA 1632, PG 1638
PIN 1707-57-3620

PC

PC

PC

PT

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PT

MMRD CONST. BASELINE
MITCHELL MILL ROAD - S.R. 2224
60' PUBLIC R/W

MMRD CONST. BASELINE
MITCHELL MILL ROAD - S.R. 2224
60' PUBLIC R/W

MMRD CONST. BASELINE
MITCHELL MILL ROAD - S.R. 2224
60' PUBLIC R/W

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MMRD
CURVE ④
Δ = 6°35'39"
R = 2500.00
T = 144.02
L = 287.73
C = 287.57
PC = 221+95.86
PI = 223+39.88
PT = 224+83.59
Ed = MATCH EXIST.

MMRD
CURVE ④
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PC = 221+95.86
PI = 223+39.88
PT = 224+83.59
Ed = MATCH EXIST.

LEGEND:
[Hatched Box] DEMOLITION OF EX. PAVEMENT
[Dotted Box] NEW PAVEMENT
[Solid Box] CONCRETE SIDEWALK

PAVEMENT MARKING LEGEND:
T2 - WHITE STOPEBAR (24", 120 MIL)
T8 - 2 FT. - 6 FT./SP WHITE MINISKIP (4", 120 MIL)
TA - WHITE EDGELINE (4", 90 MIL)
TE - WHITE SOLID LANE LINE (4", 90 MIL)
TI - YELLOW DOUBLE CENTER (4", 120 MIL)
TU - WHITE DIAGONAL (12", 90 MIL)
T90 - BICYCLE SYMBOLE (90 MIL)
T91 - BICYCLE STRAIGHT ARROW (90 MIL)
UA - LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
T4 - 3FT. - 9FT./SP WHITE MINISKIP (4" 90 MIL)
TV - YELLOW DIAGONAL (12", 90 MIL)
TH - YELLOW SINGLE CENTER (4", 120 MIL)
TF - 10 FT. YELLOW SKIP (4", 120 MIL)

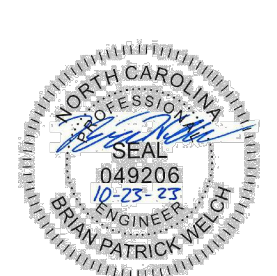
[R] RELOCATE EXISTING SIGN PANEL ONTO NEW
SIGN ASSEMBLY PER NCDOT STANDARDS.
REMOVE AND DISPOSE OF EXISTING ASSEMBLY.

PROP. RIP RAP CLASS B
T: 18", L: 12", W: 6"

EXIST CONDITIONS

PLAN

STRIPING



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REVISION DESCRIPTION
ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE
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DATE
06-15-2023
10-24-2023

DATE
07/21/22

DRAWN BY
BPW

DESIGNED BY
BPW

CHECKED BY
BPW

SCALE
1" = 50'

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43398

SHEET NO.
R5.01

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ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

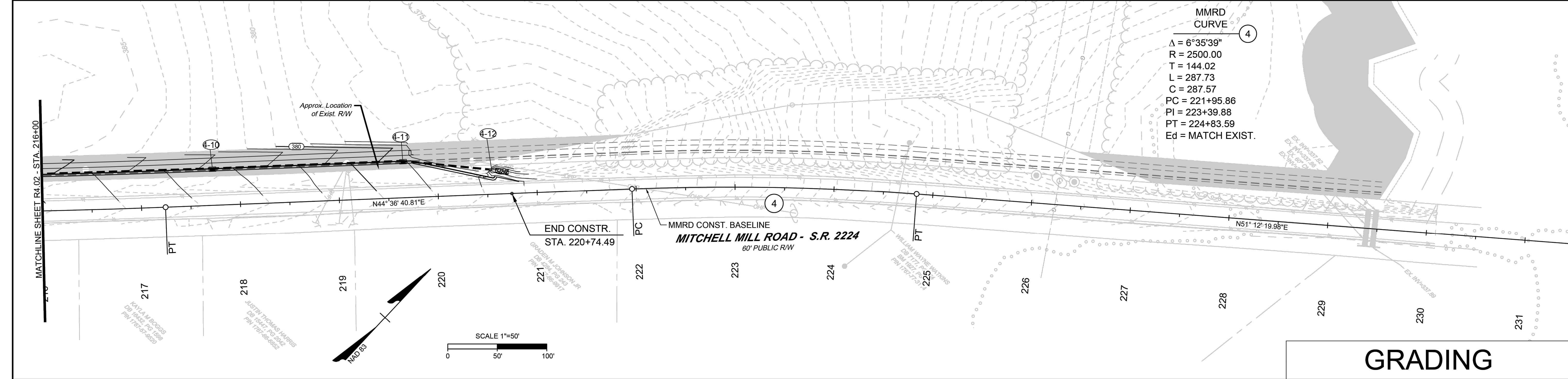
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ROLESVILLE - WAKE COUNTY - NORTH CAROLINA
EXISTING CONDITIONS & PLAN & STRIPING SHEET

S:\320-43298-Wheeler - Tract\DWG\Sheet\CD\203-43298-203C-RE.dwg | Plotted on 10/24/2023 11:47 AM | by Brian Welch



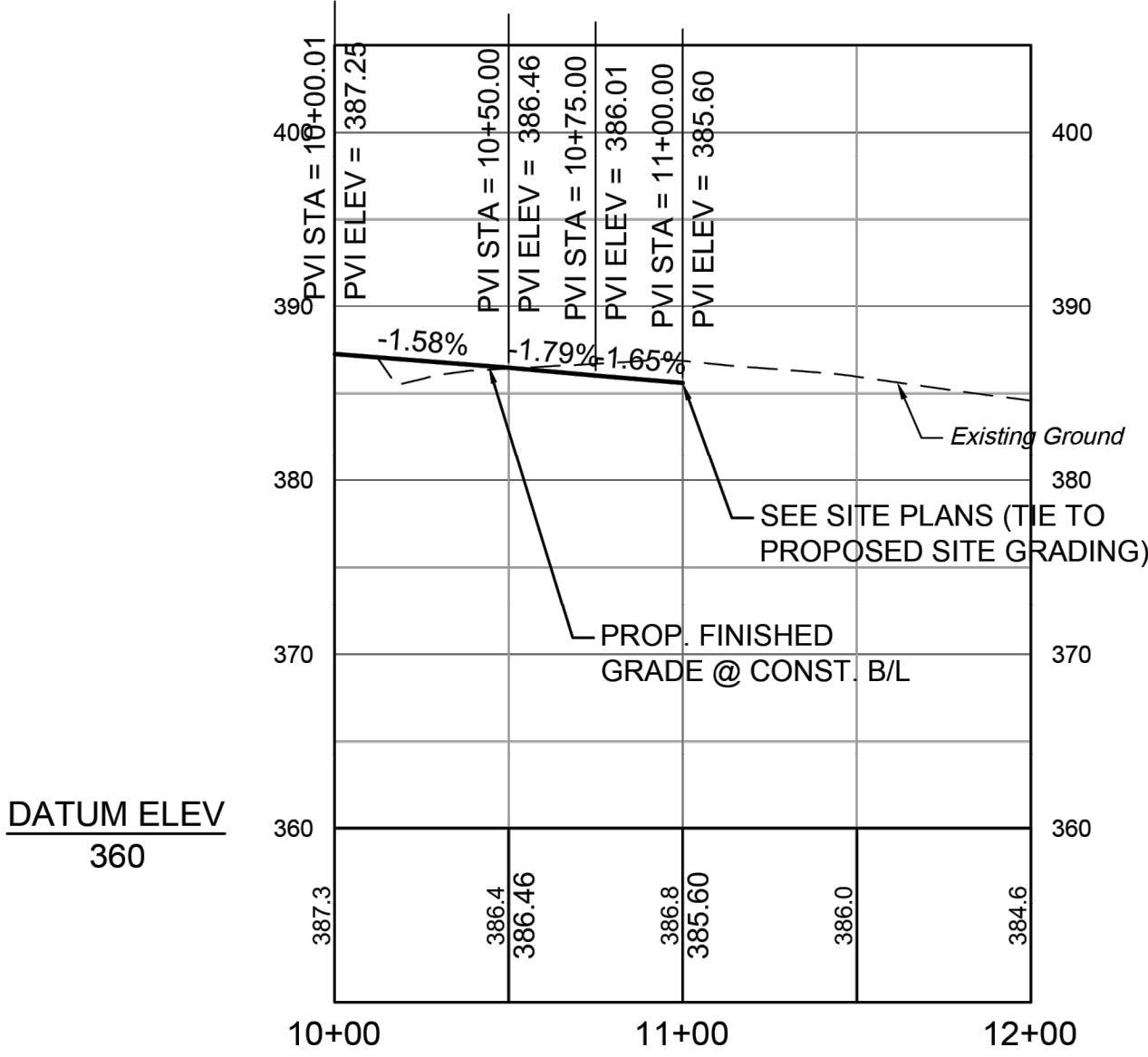
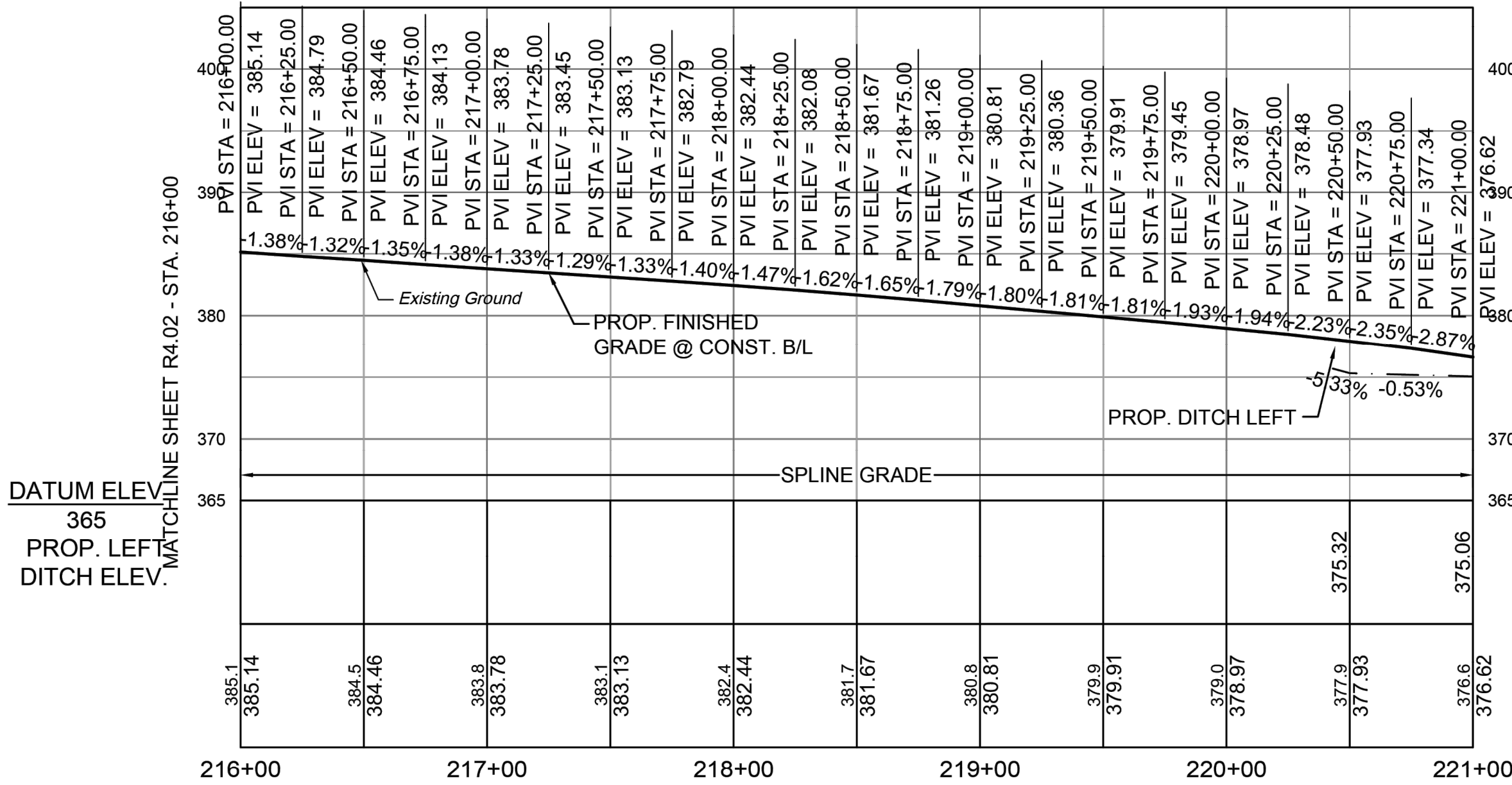
MMRD
CURVE ④

$\Delta = 6^\circ 35' 39''$
 $R = 2500.00$
 $T = 144.02$
 $L = 287.73$
 $C = 287.57$
 $PC = 221+95.86$
 $PI = 223+39.88$
 $PT = 224+83.59$
 $Ed = \text{MATCH EXIST.}$

GRADING

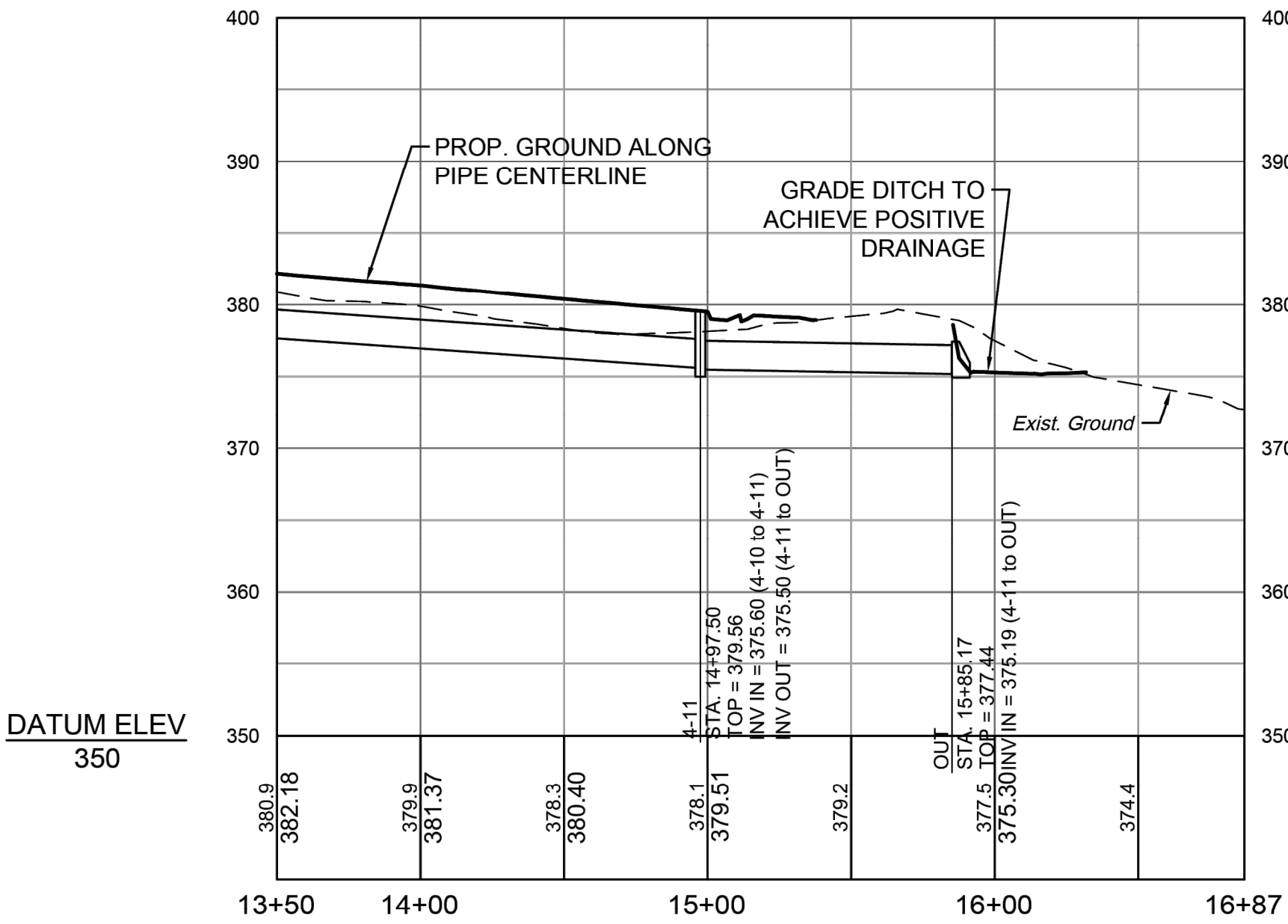
MMRD

ROAD2



PROFILE

STM MITCHELL MILL ROAD



STORM STRUCTURE TABLE STM Mitchell Mill Road				
STR. #	TOP	INV. IN	INV. OUT	DESCRIPTION
OUT	377.44'	375.19' (24" RCP FROM 4-11)		NCDOT 310.02 CONCRETE ES
4-11	379.56'	375.60' (24" RCP FROM 4-10)	375.50' (24" RCP TO OUT)	NCDOT 840.02 CONCRETE CB
4-10	382.78'	378.38' (24" RCP FROM 4-9)	378.28' (24" RCP TO 4-11)	NCDOT 840.02 CONCRETE CB
4-9	385.54'	381.09' (24" RCP FROM 4-8)	380.99' (24" RCP TO 4-10)	NCDOT 840.02 CONCRETE CB
4-8	389.08'	385.26' (24" RCP FROM 4-7)	384.60' (24" RCP TO 4-9)	NCDOT 840.02 CONCRETE CB
4-7	392.18'	386.56' (24" RCP FROM 4-6)	386.46' (24" RCP TO 4-8)	NCDOT 840.02 CONCRETE CB
4-6	393.38'	387.47' (24" RCP FROM 4-5) 389.68' (18" RCP FROM IN-NORTH)	387.37' (24" RCP TO 4-7)	NCDOT 840.02 CONCRETE CB
4-5	393.41'	388.17' (24" RCP FROM 4-4)	388.07' (24" RCP TO 4-6)	NCDOT 840.02 CONCRETE CB
4-2	393.51'	390.76' (18" RCP FROM EX-1) 389.56' (24" RCP FROM 4-1)	389.46' (24" RCP TO 4-3)	NCDOT 840.02 CONCRETE CB
4-4	393.83'	388.55' (24" RCP FROM 4-3)	388.55' (24" RCP TO 4-5)	NCDOT 840.02 CONCRETE CB
4-3	393.94'	388.83' (24" RCP FROM 4-2)	388.92' (24" RCP TO 4-4)	NCDOT 840.02 CONCRETE CB
4-1	395.27'		390.31' (24" RCP TO 4-2)	NCDOT 840.02 CONCRETE CB

STORM PIPE TABLE STM Mitchell Mill Road							
FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DIA.	MATERIAL	DESCRIPTION
4-1 - 4-2	390.31'	389.56'	0.50%	150.63 LF	24"	RCP	CLASS III
4-2 - 4-3	389.46'	388.83'	0.63%	100.06 LF	24"	RCP	CLASS III
4-3 - 4-4	388.92'	388.55'	0.38%	99.79 LF	24"	RCP	CLASS III
4-4 - 4-5	388.55'	388.17'	0.44%	85.85 LF	24"	RCP	CLASS III
4-5 - 4-6	388.07'	387.47'	0.66%	90.61 LF	24"	RCP	CLASS III
4-6 - 4-7	387.37'	386.56'	0.51%	160.33 LF	24"	RCP	CLASS III
4-7 - 4-8	386.46'	385.26'	0.60%	200.51 LF	24"	RCP	CLASS III
4-8 - 4-9	384.60'	381.09'	1.75%	200.64 LF	24"	RCP	CLASS III
4-9 - 4-10	380.99'	378.38'	1.30%	200.96 LF	24"	RCP	CLASS III
4-10 - 4-11	378.28'	375.60'	1.39%	192.64 LF	24"	RCP	CLASS III
4-11 - OUT	375.50'	375.19'	0.35%	87.67 LF	24"	RCP	CLASS III
EX-1 - 4-2	392.04'	390.76'	2.25%	56.87 LF	18"	RCP	EXIST. PIPE
IN-NORTH - 4-6	390.03'	389.68'	0.63%	55.98 LF	18"	RCP	EXIST. PIPE

PROFILE

TIMMONS GROUP

WHEELER TRACT - OFFSITE IMPROVEMENTS

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

GRADING & PROFILE SHEET

JOB NO.
43398

SHEET NO.
R5.02

THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION
ROLESVILLE ROAD TAPER SHIFT AND STORM NETWORK UPDATE
GRADING AND STORM NETWORK ADJUSTMENTS

DATE
06-15-2023
10-24-2023

DATE
07/21/22

DRAWN BY
BPW

DESIGNED BY
BPW

CHECKED BY
BPW

SCALE
1" = 50'

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