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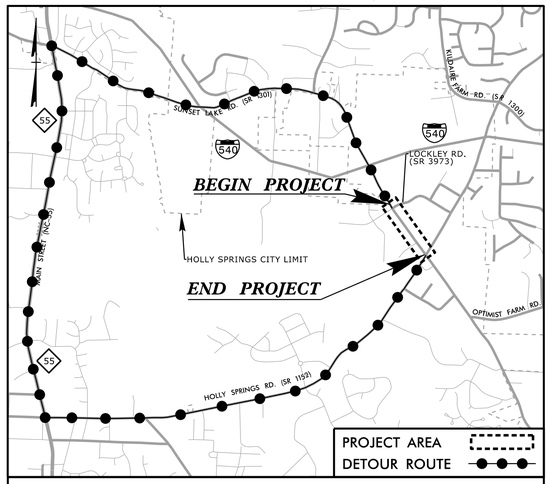
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09/08/09

TIP PROJECT: HL–0008D

CONTRACT: DE00409

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP N.T.S.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

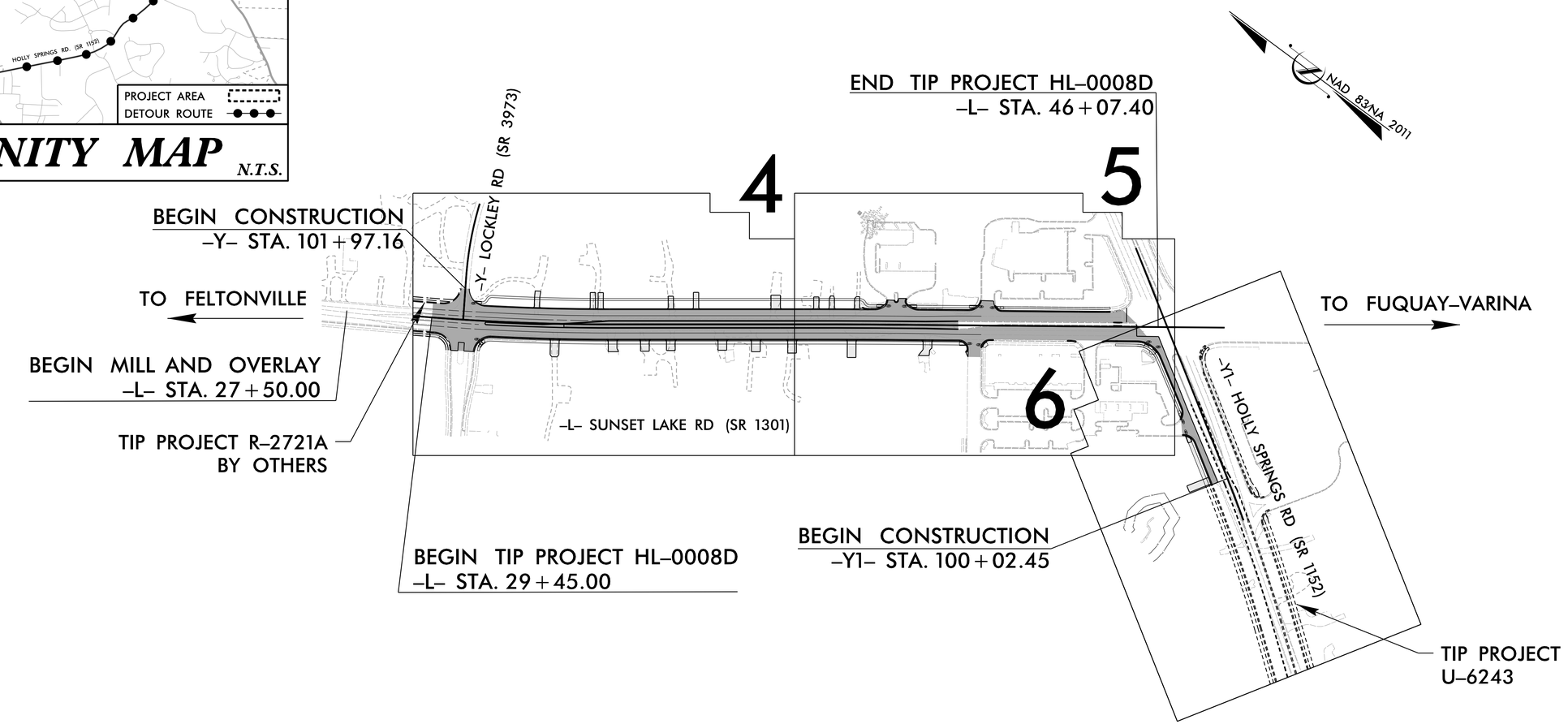
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HL–0008D	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49367.1.8	N/A	PE
49367.2.9	N/A	R/W
49367.2.17	N/A	UTIL
49367.3.8	N/A	CONST

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

LOCATION: SR 1301 (SUNSET LAKE ROAD) BETWEEN SR 1152 (HOLLY SPRINGS ROAD) AND SR 3973 (LOCKLEY ROAD)

TYPE OF WORK: GRADING, PAVING, & DRAINAGE



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF HOLLY SPRINGS.

GRAPHIC SCALES

30 15 0 30 60
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2025 = 12,300
ADT 2045 = 17,000

V = 40 MPH

FUNCTIONAL CLASS:
MAJOR COLLECTOR

PROJECT LENGTH

TOTAL LENGTH TIP PROJECT HL–0008D = 0.315 MILES

NCDOT CONTACT: CALEB WHITBY, PE
DIVISION 5 PROJECT MANAGER
PH: 919–707–7398

Prepared in the Office of:

DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

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5808 FARINGDON PLACE
RALEIGH, NC 27609
PHONE: 919-872-5115
www.drmp.com | NC License No. F-1524

2024 STANDARD SPECIFICATIONS

JANUARY 29, 2024
RIGHT OF WAY DATE:
AUGUST 12, 2026
LETTING DATE:

KAYLA M. POULOS, PE
PROJECT ENGINEER

MIKAYLA M. LINDSEY, PE
PROJECT DESIGNER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 044113 ENGINEER RYAN P. MITCHELL

Signed by: Ryan P. Mitchell
SIGNATURE: 7/7/2026

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 050515 ENGINEER KAYLA M. POULOS

Signed by: Kayla M. Poulos
SIGNATURE: 7/7/2026

STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION *

7/6/2026
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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	1A

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050515 ENGINEER KAYLA M. POWLOS
Kayla M. Powlos
2/5/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

INDEX OF SHEETS, GENERAL NOTES, & 2024 ROADWAY ENGLISH STANDARD DRAWINGS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, & STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A–1 THRU 2A–2	TYPICAL SECTIONS
2C–1 THRU 2C–4	ROADWAY DETAILS
3B–1	ROADWAY SUMMARY SHEET
3D–1 THRU 3D–3	DRAINAGE SUMMARY SHEET
3G–1	GEOTECHNICAL SUMMARY SHEET
3P–1	PARCEL INDEX
4 THRU 7	PLAN & PROFILE SHEETS
RW–01 THRU RW–06	RIGHT OF WAY PLANS
TMP–1 THRU TMP–20	TRANSPORTATION MANAGEMENT PLANS
PMP–1 THRU PMP–5	PAVEMENT MARKING & SIGNING PLANS
EC–1 THRU EC–9	EROSION CONTROL PLANS
RF–1	REFORESTATION DETAIL SHEET
UC–1 THRU UC–5	UTILITY CONSTRUCTION PLANS
UO–1 THRU UO–3	UTILITY BY OTHERS PLANS
X–1	CROSS SECTION INDEX SHEET
X–1A	CROSS SECTION SUMMARY SHEET
X–2 THRU X–19	CROSS SECTION SHEETS

GENERAL NOTES 2024 SPECIFICATIONS EFF. 01–16–2024

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELELVATION 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.

CLEARING:

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

SHOULDER CONSTRUCTION:

SHOULDER CONSTRUCTION ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD I.

SIDE ROADS:

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.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

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

STREET TURNOUT:

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

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104–7.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY, AT&T, CHARTER, VERIZON, ENBRIDGE, AND TOWN OF HOLLY SPRINGS. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT–OF–WAY MARKERS:

ALL RIGHT–OF–WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

CURB RAMPS:

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD. 848.06.

2024 ROADWAY ENGLISH STANDARD DRAWINGS EFF. 01–16–2024

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" CONTRACTS STANDARDS AND DEVELOPEMENT UNIT – N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 16, 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
DIVISION 2 – EARTHWORK	
200.03	METHOD OF CLEARING – METHOD III
225.02	GUIDE FOR GRADING SUBGRADE – SECONDARY AND LOCAL
DIVISION 3 – PIPE CULVERTS	
300.01	METHOD OF PIPE INSTALLATION (DETAIL IN LIEU OF STANDARD)
310.02	PARALLEL PIPE END SECTION – PRECAST CONCRETE SECTION FOR 15" TO 24" PIPE
310.03	CROSS PIPE END SECTION – PRECAST CONCRETE SECTION FOR 18" TO 30" PIPE
310.10	DRIVEWAY PIPE CONSTRUCTION
DIVISION 5 – SUBGRADE, BASES AND SHOULDERS	
560.01	METHOD OF SHOULDER CONSTRUCTION – HIGH SIDE OF SUPERELEVATED CURVE – METHOD I
DIVISION 6 – ASPHALT BASES AND PAVEMENTS	
654.01	PAVEMENT REPAIRS
DIVISION 8 – INCIDENTALS	
806.01	CONCRETE RIGHT–OF–WAY MARKER
806.02	GRANITE RIGHT–OF–WAY MARKER
815.02	SUBSURFACE DRAIN
840.01	BRICK CATCH BASIN – 12" THRU 54" PIPE
840.02	CONCRETE CATCH BASIN – 12" THRU 54" PIPE
840.03	FRAME, GRATES AND HOOD – FOR USE ON STANDARD CATCH BASIN
840.24	FRAMES AND NARROW SLOT SAG GRATES
840.31	CONCRETE JUNCTION BOX – 12" THRU 66" PIPE
840.32	BRICK JUNCTION BOX – 12" THRU 66" PIPE
840.34	TRAFFIC BEARING JUNCTION BOX – FOR USE WITH PIPES 42" AND UNDER
840.51	BRICK MANHOLE – 12" THRU 36" PIPE
840.52	PRECAST MANHOLE – 4', 5' AND 6' DIAMTER 12" THRU 48" PIPE
840.53	PRECAST MANHOLE WITH MASONRY BASE – 12" THRU 42" PIPE
840.54	MANHOLE FRAME AND COVER
840.66	DRAINAGE STRUCTURE STEPS
846.01	CONCRETE CURB, GUTTER AND CURB & GUTTER
848.01	CONCRETE SIDEWALK (DETAIL IN LIEU OF STANDARD)
848.03	DRIVEWAY TURNOUT – DROP CURB TYPE
848.04	STREET TURNOUT
848.06	CURB RAMP (DETAIL IN LIEU OF STANDARD FOR SHEET 9 OF 13)
848.07	CONCRETE SIDEPATH /SHARED USE PATH /GREENWAY CONSTRUCTION
852.01	CONCRETE ISLANDS
852.05	MEDIAN CURB FOR CATCH BASIN – FOR USE WITH 1'–6" CURB & GUTTER
852.10	MEDIAN CONSTRUCTION – WITH CURB AND GUTTER
876.01	RIP RAP IN CHANNELS AND DITCHES
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS
876.04	DRAINAGE DITCHES WITH CLASS 'B' RIP RAP

1/28/2026
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9/10/2021

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin (EIP) — EIP
- Computed Property Corner
- Existing Concrete Monument (ECM) — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil — S
- Potential Contamination Area: Soil — S
- Known Contamination Area: Water — W
- Potential Contamination Area: Water — W
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Secondary Horiz and Vert Control Point
- Vertical Benchmark
- Existing Right of Way Monument
- Proposed Right of Way Monument (Rebar and Cap)
- Proposed Right of Way Monument (Concrete)
- Existing Permanent Easement Monument
- Proposed Permanent Easement Monument (Rebar and Cap)
- Existing C/A Monument
- Proposed C/A Monument (Rebar and Cap)
- Proposed C/A Monument (Concrete)
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Existing Control of Access Line — CA
- Proposed Control of Access Line — CA
- Proposed ROW and CA Line — RW CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage/Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge

- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

** SUE – Subsurface Utility Engineering*
LOS – Level of Service – A,B,C or D (Accuracy)

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole — HH
- H–Frame Pole
- U/G Power Line Test Hole (SUE – LOS A)*
- U/G Power Line (SUE – LOS B)* — P
- U/G Power Line (SUE – LOS C)* — P
- U/G Power Line (SUE – LOS D)* — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Test Hole (SUE – LOS A)*
- U/G Telephone Cable (SUE – LOS B)* — T
- U/G Telephone Cable (SUE – LOS C)* — T
- U/G Telephone Cable (SUE – LOS D)* — T
- U/G Telephone Conduit (SUE – LOS B)* — TC
- U/G Telephone Conduit (SUE – LOS C)* — TC
- U/G Telephone Conduit (SUE – LOS D)* — TC
- U/G Fiber Optics Cable (SUE – LOS B)* — T FO
- U/G Fiber Optics Cable (SUE – LOS C)* — T FO
- U/G Fiber Optics Cable (SUE – LOS D)* — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line Test Hole (SUE – LOS A)*
- U/G Water Line (SUE – LOS B)* — W
- U/G Water Line (SUE – LOS C)* — W
- U/G Water Line (SUE – LOS D)* — W
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Test Hole (SUE – LOS A)*
- U/G TV Cable (SUE – LOS B)* — TV
- U/G TV Cable (SUE – LOS C)* — TV
- U/G TV Cable (SUE – LOS D)* — TV
- U/G Fiber Optic Cable (SUE – LOS B)* — TV FO
- U/G Fiber Optic Cable (SUE – LOS C)* — TV FO
- U/G Fiber Optic Cable (SUE – LOS D)* — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line Test Hole (SUE – LOS A)*
- U/G Gas Line (SUE – LOS B)* — G
- U/G Gas Line (SUE – LOS C)* — G
- U/G Gas Line (SUE – LOS D)* — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- SS Force Main Line Test Hole (SUE – LOS A)*
- SS Force Main Line (SUE – LOS B)* — FSS
- SS Force Main Line (SUE – LOS C)* — FSS
- SS Force Main Line (SUE – LOS D)* — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line (SUE – LOS B)* — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

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FINAL PAVEMENT SCHEDULE					
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.	S2	6" CONCRETE SIDEPATH
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.	R1	2'-6" CONCRETE CURB AND GUTTER.	T	COMPACTED EARTH MATERIAL.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R2	1'-6" CONCRETE CURB AND GUTTER.	U	EXISTING PAVEMENT.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R3	5" MONOLITHIC CONCRETE ISLAND (KEYED IN).	V	1.5" MILLING.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.	S1	4" CONCRETE SIDEWALK/PATH (6" AT DRIVEWAYS/RAMPS).	W	WEDGING (SEE WEDGING DETAIL ON THIS SHEET).
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.				

NOTES: 1. ALL PAVEMENT SLOPES ARE 1:1 UNLESS OTHERWISE SPECIFIED.
2. SEE ROADWAY PLANS FOR LOCATION OF INTERSECTION TURNOUTS, TURN LANES, TAPERS, AND ISLANDS.

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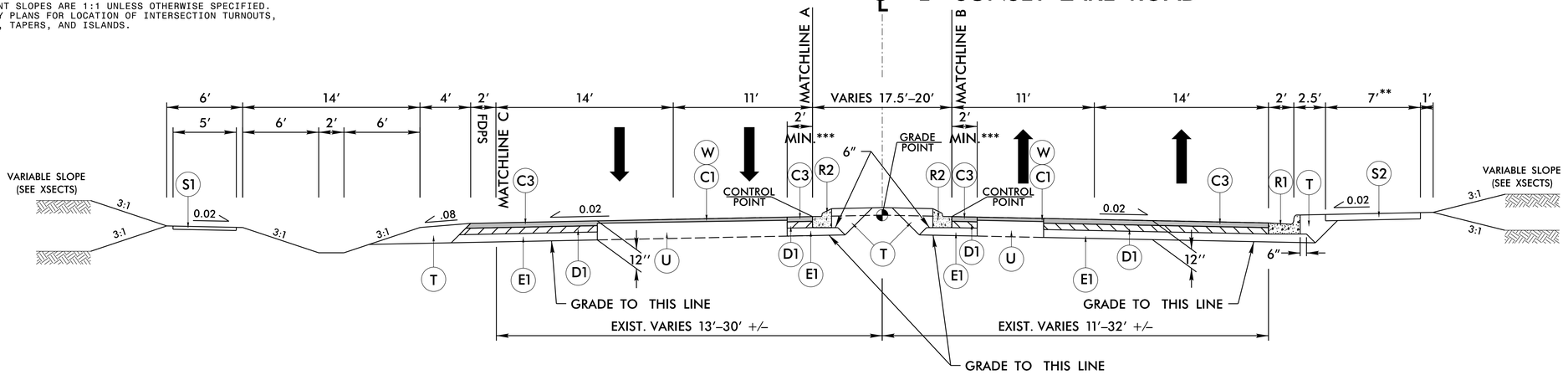
PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	2A-1

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050515 KAYLA M. POULOS
12/18/2025

PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039819 ANTONIA T. HEYWARD
12/18/2025

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–L– SUNSET LAKE ROAD ℄

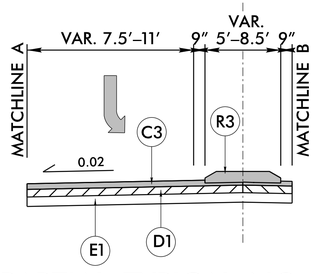


TYPICAL SECTION NO. 1

–L– STA. 30+25.00 TO –L– STA. 33+00.00
–L– STA. 39+00.00 TO –L– STA. 42+02.79 LT
–L– STA. 39+00.00 TO –L– STA. 41+73.06 RT
**MULTIUSE PATH: –L– STA. 30+53.08 TO –L– STA. 41+70.00

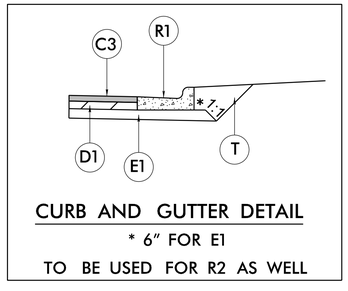
***MIN. 2′ FULL DEPTH PAVEMENT IN FRONT OF CURB. SAWCUT EXISTING PAVEMENT IF NECESSARY.

–L– SUNSET LAKE ROAD ℄

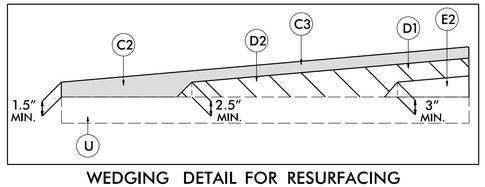


PARTIAL TYPICAL NO. 1A

–L– STA. 30+67.04 TO –L– STA. 32+47.73

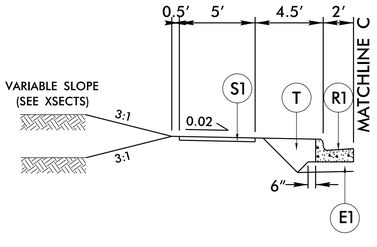


CURB AND GUTTER DETAIL
* 6″ FOR E1
TO BE USED FOR R2 AS WELL



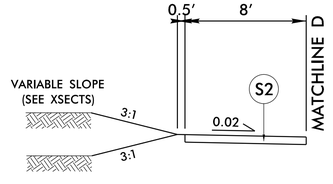
WEDGING DETAIL FOR RESURFACING

–L– STA. 30+50.00 TO –L– STA. 33+00.00
–L– STA. 39+00.00 TO –L– STA. 41+50.00
SEE XSECTS



PARTIAL TYPICAL NO. 1B

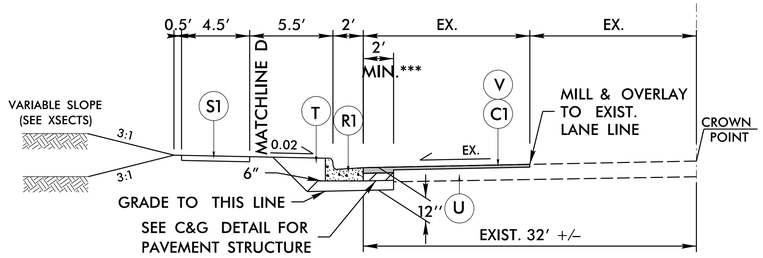
–L– STA. 39+45.00 TO –L– STA. 41+95.00



PARTIAL TYPICAL NO. 4A

–Y1– STA. 100+02.45 TO –Y1– STA. 101+28.70

–Y1– HOLLY SPRINGS ROAD ℄



TYPICAL SECTION NO. 4

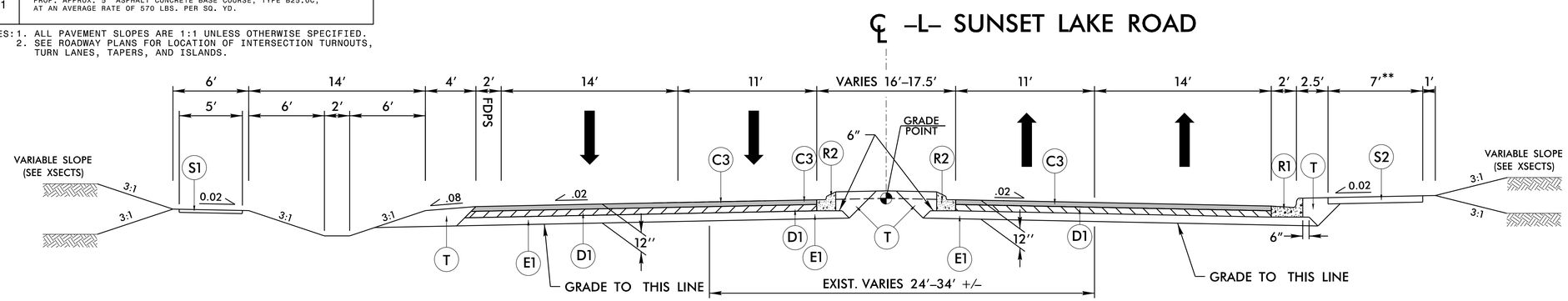
–Y1– STA. 100+02.45 TO –Y1– STA. 103+62.57

8/22/2025
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User:Ryan.Jubb

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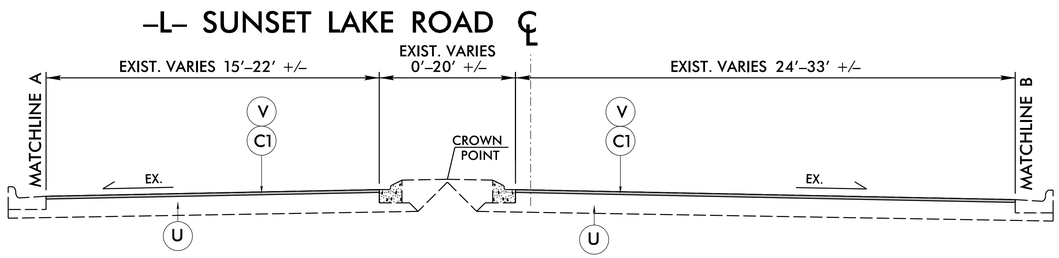
FINAL PAVEMENT SCHEDULE					
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.	S2	6" CONCRETE SIDEPATH
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.	R1	2'-6" CONCRETE CURB AND GUTTER.	T	COMPACTED EARTH MATERIAL.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R2	1'-6" CONCRETE CURB AND GUTTER.	U	EXISTING PAVEMENT.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R3	5" MONOLITHIC CONCRETE ISLAND (KEYED IN).	V	1.5" MILLING.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.	S1	4" CONCRETE SIDEWALK/PATH (6" AT DRIVEWAYS/RAMPS).	W	WEDGING (SEE WEDGING DETAIL ON THIS SHEET).
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.				

NOTES: 1. ALL PAVEMENT SLOPES ARE 1:1 UNLESS OTHERWISE SPECIFIED.
2. SEE ROADWAY PLANS FOR LOCATION OF INTERSECTION TURNOUTS, TURN LANES, TAPERS, AND ISLANDS.



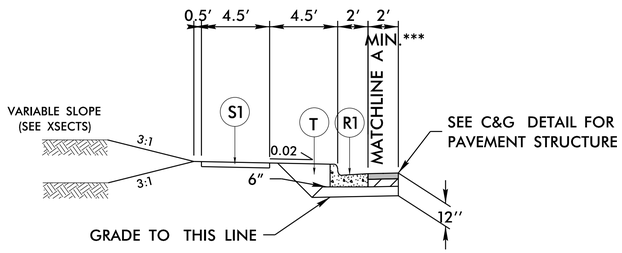
TYPICAL SECTION NO. 2

–L– STA. 33+00.00 TO –L– STA. 39+00.00



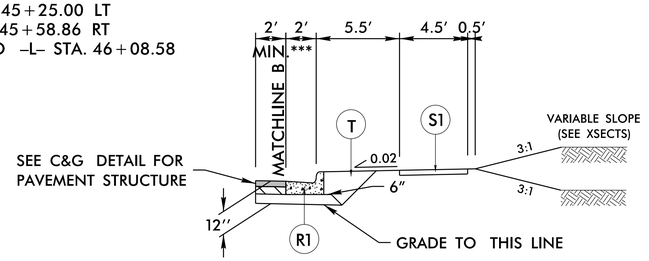
TYPICAL SECTION NO. 3

–L– STA. 29+45.00 TO –L– STA. 30+25.00
–L– STA. 42+02.79 TO –L– STA. 45+25.00 LT
–L– STA. 41+73.06 TO –L– STA. 45+58.86 RT
OUTSIDE LANE RT: –L– STA. 41+73.06 TO –L– STA. 46+08.58



PARTIAL TYPICAL SECTION NO. 3A

–L– STA. 42+32.53 TO –L– STA. 44+97.77 LT



PARTIAL TYPICAL SECTION NO. 3B

–L– STA. 45+10.00 TO –L– STA. 46+14.00 RT

***MIN. 2′ FULL DEPTH PAVEMENT IN FRONT OF CURB. SAWCUT EXISTING PAVEMENT IF NECESSARY.

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5808 FARRINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115
NC LICENSE NO. F-1524
www.drmp.com

PROJECT REFERENCE NO.	SHEET NO.
HL–0008D	2A–2

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050515 ENGINEER KAYLA M. POULOS
12/18/2025

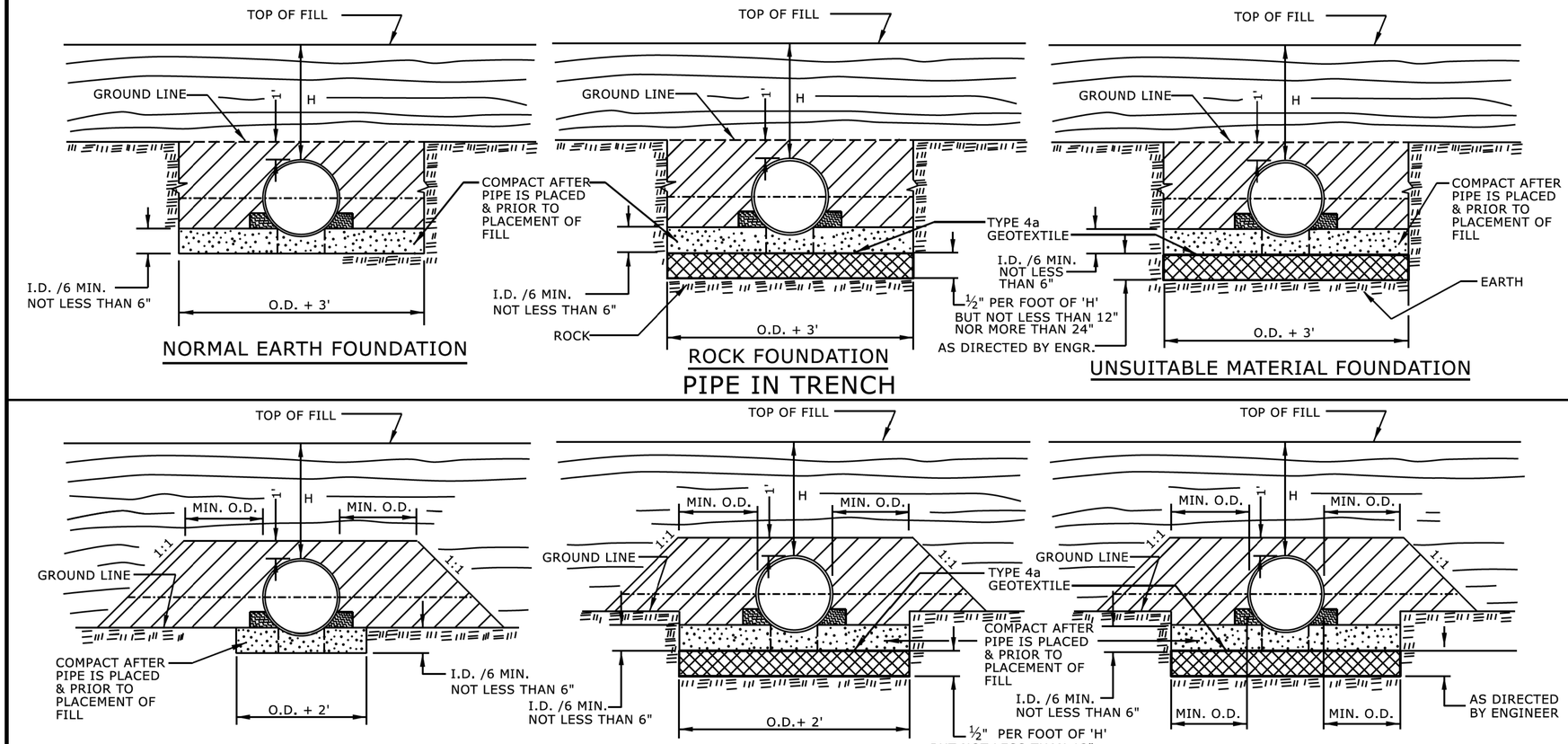
PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 039819 ENGINEER ANTONIA T. HEYWARD
12/18/2025

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8/22/2025
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User: RyanJubb

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PROJECT REFERENCE NO.	SHEET NO.
HL–0008D	2C–1



GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF
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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR

METHOD OF PIPE INSTALLATION

FLEXIBLE PIPE

SHEET 1 OF 2

300.01

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033144 NICOLE M. HACKER

1/28/2026

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CONTRACTS STANDARDS AND DEVELOPMENT UNIT

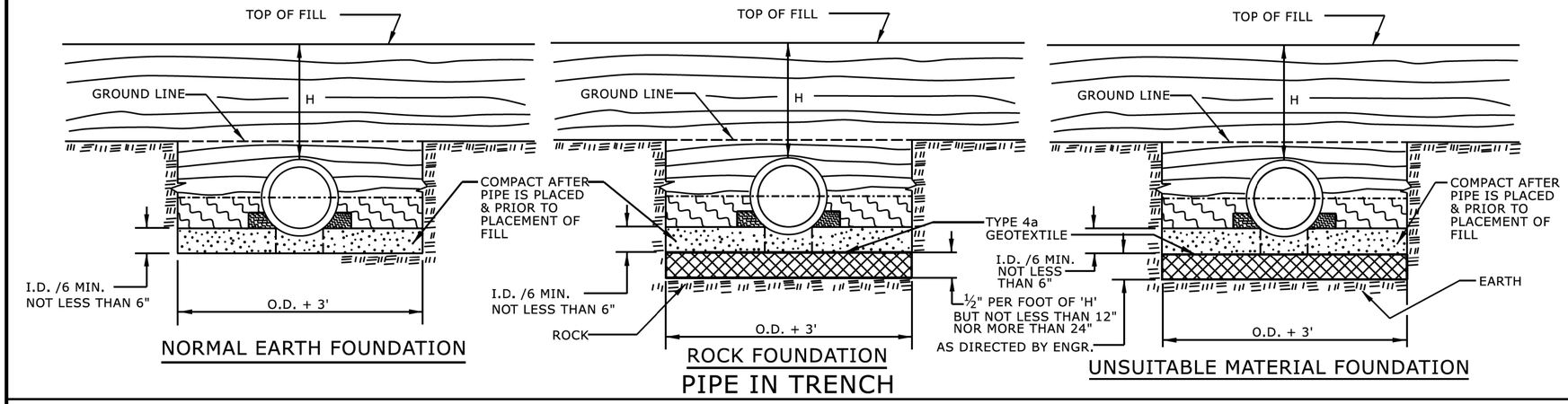
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

Docusign Envelope ID: 7F340245-0174-4BFF-A724-11EEEDC751C8

PROJECT REFERENCE NO.	SHEET NO.
HL–0008D	2C–2



GENERAL NOTES:

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

APPROVED SUITABLE LOCAL MATERIAL.

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.

LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

SPRINGLINE OF PIPE

SELECT BACKFILL MATERIAL CLASS III OR CLASS II, BELOW SPRINGLINE.

UNDISTURBED EARTH MATERIAL

SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR

METHOD OF PIPE INSTALLATION

RIGID PIPE

SHEET 2 OF 2

300.01

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033144 NICOLE M. HACKLER

1/28/2026

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CONTRACTS STANDARDS AND DEVELOPMENT UNIT

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FILE SPEC.:

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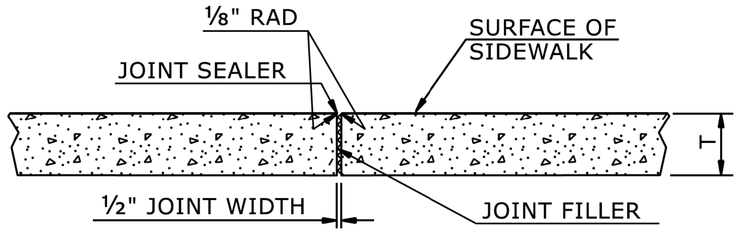
PROJECT REFERENCE NO.	SHEET NO.
HL–0008D	2C–3

NOTES:

CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

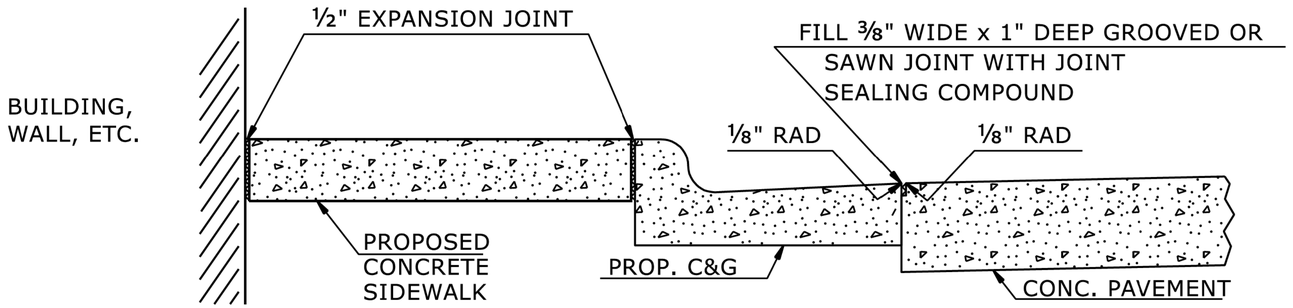
PLACE A GROOVE JOINT 1" DEEP WITH ⅛" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE ½" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A ½" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



T = SIDEWALK THICKNESS

TRANSVERSE EXPANSION JOINT IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

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DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR

CONCRETE SIDEWALK

SHEET 1 OF 1

848D01

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033144 NICOLE M. HACKLER
1/28/2026

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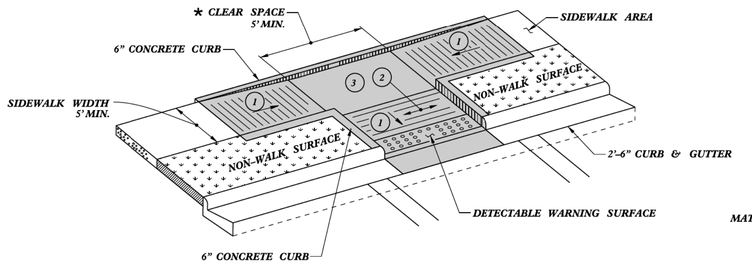
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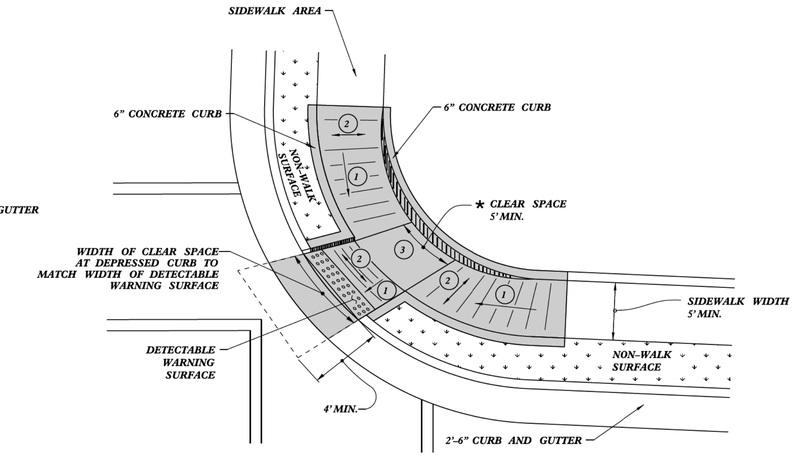
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HL-0008D	2C-4

* - *WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4'MINIMUM X 5'MINIMUM, WITH 5'PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.*



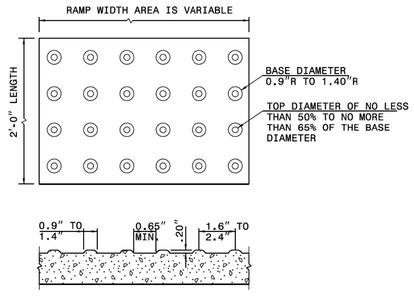
TYPE 3



TYPE 3 MODIFIED
INSTALLATION IN A RADIUS

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

(1) *8.33% (12:1) MAX RAMP SLOPE*

(2) *CROSS SLOPE: 2.00%*

(3) *MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%.*

PAY LIMITS FOR 1 CURB RAMP

STATE OF
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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CURB RAMP
PARALLEL RAMP

NORTH CAROLINA PROFESSIONAL SEAL 033144 ENGINEER NICOLE M HACKLER
1/28/2026

SHEET 9 OF13
848D06

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PROJECT NO.	SHEET NO.
HL-0008D	3B-1

DRMP

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5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

LINE	Station	Station	Uncl. Excav.	Embank.	Borrow	Waste
-L-	30+00.00	46+00.00	3624	2629	0	995
-Y1-	99+50.00	104+00.00	35	299	264	0
TOTAL			**3659**	**2928**	**264**	**995**
ADJUSTMENTS DUE TO						
Est. Loss Due To Clearing And Grubbing			0			0
Shoulder Borrow			0			0
Rock Waste To Replace Borrow						
Adjust For Rock Swell That Replaces Borrow						
Eliminate Shrinkage For Mat'l That Is Now Rock						
Earth Waste to Replace Borrow					-264	-264
PROJECT TOTAL			**3659**	**2928**	**0**	**731**
Est. 5% to Replace Topsoil in Borrow Pits					0	
GRAND TOTAL			**3659**		**0**	
SAY			**3700**		**0**	

Est. Shoulder Borrow	**300 CY**
Est. Drainage Ditch Excav.	**0 CY**
Select Granular Material	**100 CY**
Geotextile For Soil Stab.	**100 SY**
Estimate Undercut	**100 CY**
Estimate Shallow Undercut	**100 CY**
Class IV Subgrade Stab.	**200 TONS**
Geotextile For Sub. Stab.	**300 SY**

Earthwork quantities are calculated by the roadway designer. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit. Approximate quantities only. Shoulder borrow, fine grading, and clearing and grubbing will be paid for at the lump sum price for "Grading".

Class IV Subgrade Stab.	200 TONS
Geotextile For Sub. Stab.	300 SY

SUMMARY OF CURB AND GUTTER

LINE	Station	Station	LOC LT/RT/CL	LENGTH
1'-6" C&G				
L	32+47.73	41+50.00	LT	903
L	32+47.73	41+50.00	RT	902
L	45+05.00	45+25.00	CL	20
L	45+05.00	45+25.00	CL	20
			TOTAL	1,845
			SAY	**1850**
2'-6" C&G				
L	29+45.00	29+68.14	RT	24
L	30+44.09	41+73.06	RT	1,013
L	39+22.06	44+97.77	LT	568
L	42+00.00	42+30.00	RT	36
L	45+10.00	46+14.01	RT	118
Y1	100+02.45	101+34.08	LT	140
Y1	101+66.13	103+17.85	LT	141
			TOTAL	2,040
			SAY	**2,050**

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CHA-SMCCARTHY

COMPUTED BY: Sean McCarthy DATE: 01/30/2026

CHECKED BY: Ryan Mitchell, PE DATE: 01/30/2026

PROJECT NO.	SHEET NO.
HL-0008D	3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

| LINE & STATION | OFFSET | | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) SIZE 12 | 15 | 18 | 24 | 30 | 36 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | DO NOT USE PP PIPE | R. C. PIPE CLASS III 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | REINFORCED ENDWALLS CY | DRAINAGE STRUCTURE MASONRY CY | QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) 0' THRU 5' EACH | A 5' THRU 10' LIN. FT. | B 10' AND ABOVE LIN. FT. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.2 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840. | G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.2 | G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.2 | G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.2 | DRIVEWAY D.I. STD. 840.30 | FRAME W/ GRATE FOR DRIVEWAY STD. 840.30 | J.B. STD. 840.31 OR STD. 840.32 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | T.B.J.B. STD. 840.34 | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | MODIFIED CONC. FLUME | PREFORMED SCOUR HOLE (PER EACH) | ENERGY DISSIPATION BASIN | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | CONCRETE AND BRICK PIPE PLUG STD. 840.77 CY | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---

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301-PW0KMWEL

COMPUTED BY: Sean McCarthy DATE: 01/30/2026

CHECKED BY: Ryan Mitchell, PE DATE: 01/30/2026

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
HL-0008D	3D-2

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

| LINE & STATION | OFFSET | | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) SIZE 12 | 15 | 18 | 24 | 30 | 36 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | DO NOT USE PP PIPE | R. C. PIPE CLASS III 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | ENDWALLS STD. 838.11, 838.12, 838.13 (UNLESS NOTED OTHERWISE) CY | REINFORCED ENDWALLS CY | DRAINAGE STRUCTURE MASONRY CY | QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) A 0' THRU 5' EACH | A 5' THRU 10' LIN. FT. | B 10' AND ABOVE LIN. FT. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | DRIVEWAY D.I. STD. 840.30 | FRAME W/ GRATE FOR DRIVEWAY STD. 840.30 | J.B. STD. 840.31 OR STD. 840.32 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | T.B.J.B. STD. 840.34 | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | MODIFIED CONC. FLUME | PREFORMED SCOUR HOLE (PER EACH) | ENERGY DISSIPATION BASIN | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

301-PWXMWEL

COMPUTED BY: Sean McCarthy DATE: 01/30/2026

CHECKED BY: Ryan Mitchell, PE DATE: 01/30/2026

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
HL-0008D	3D-3

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

| LINE & STATION | OFFSET | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) SIZE 12 | 15 | 18 | 24 | 30 | 36 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | DO NOT USE PP PIPE | R. C. PIPE CLASS III 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | ENDWALLS STD. 838.11, 838.12, 838.13 (UNLESS NOTED OTHERWISE) CY | REINFORCED ENDWALLS CY | DRAINAGE STRUCTURE MASONRY CY | QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) A: 0' THRU 5' EACH | A: 5' THRU 10' LIN. FT. | B: 10' AND ABOVE LIN. FT. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | DRIVEWAY D.I. STD. 840.30 | FRAME W/ GRATE FOR DRIVEWAY STD. 840.30 | J.B. STD. 840.31 OR STD. 840.32 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | T.B.J.B. STD. 840.34 | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | MODIFIED CONC. FLUME | PREFORMED SCOUR HOLE (PER EACH) | ENERGY DISSIPATION BASIN | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---

Docusign Envelope ID: BF1ADBF5-62A1-4BA0-8A84-64F22FCC8579

COMPUTED BY: Alex Jones DATE: 5/9/23
CHECKED BY: Jinyoung Park DATE: 5/9/23

(2-3-23)

PROJECT NO.	SHEET NO.
HL-0008D	3G-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	200
				TOTAL LF:	200

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
CONTINGENCY			ASU(1)	12"	100	200	300		
			TOTAL CY/TONS/SY:		100	200**	300**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

Docusign Envelope ID: BF1ADBF5-62A1-4BA0-8A84-64F22FCC8579

COMPUTED BY: MML DATE: 6/16/2025
CHECKED BY: KMP DATE: 6/16/2025

PROJ. REFERENCE NO.	SHEET NO.
HL-0008D	3P-1

DRMP

DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX

PARCEL NO.	PLAN SHEET NO.	PROPERTY OWNER NAME	R/W AREA TAKEN	TEMP CONST ESMT	PERM DRAIN ESMT	PERM UTL ESMT	PERM DRAIN UTL ESMT
1	4	EMMA LEACH	5505	2265	-	967	-
2	4	APEX NORTH CAROLINA	2712	-	-	2973	-
3	4	RUBY AND JAMES SIDNEY	2727	-	-	3143	-
4	4	JAMES SIDNEY	2723	-	-	2937	-
5	4	JAMES AND ELLA SIDNEY	3410	1281	-	1349	-
6	4	LEON AND LINDA BAKER	4054	1192	-	421	-
7	4, 5	MICHAEL AND BRENDA JACKSON	2733	424	-	870	-
8	5	TRIVENI SANGAM LLC	1794	584	-	369	-
9	5	AMERICAN PROPERTIES HOLDINGS LLC	70	1468	-	1353	-
10	5	PARMINDER AND PARDEEP SANDHAR	911	571	-	-	-
11		OMITTED	-	-	-	-	-
12	5	BRISTA LLC	1045	169	147	3434	314
13		OMMITTED	-	-	-	-	-
14	4, 5	DONALD WINSTON	2003	-	-	4178	-
15	4	WAKE ACQUISITIONS LLC	1342	-	-	2629	-
16	4	GRADY AND DORETHA MCKEY	1470	-	-	2599	-
17	4	DALE HEMRICK AND STEVEN NORRIS	2347	1988	-	1748	-
18	4	MARK AND ARLENE MCDONALD	1250	1085	-	940	-
19	4	ASCENT CAPITAL MANAGEMENT LLC	1341	1188	-	-	-
20	4	GRAHAM RAINES, JR	1307	2317	-	-	-
21	4	JENNIFER FAULK AND ANTHONY ARTIS	-	-	-	-	-
22	4	WOODCREEK NEIGHBORHOOD ASSN	706	581	-	3232	-
23	5	JOYCE WILLIAMS	-	-	-	3454	-
24	5	QUINN INVESTMENTS PROPERTIES LLC	-	2058	3423	-	-
25		OMMITTED	-	-	-	-	-
26	5, 6	SUNHOLLY LLC	-	444	-	-	-

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

8/17/99

REVISIONS

NOTES:
1. DRIVEWAYS IN A CURB AND GUTTER SECTION ARE 20′ MIN. UNLESS OTHERWISE NOTED. DRIVEWAYS IN A SHOULDER SECTION ARE 12′ MIN. PAVED WIDTH UNLESS OTHERWISE NOTED, WITH TOTAL GRADED WIDTH OF NO LESS THAN 16′.
2. ALL DIMENSIONS ARE TO EDGE OF TRAVEL UNLESS OTHERWISE SPECIFIED.
3. MAINTAIN ACCESS TO ALL MAILBOXES WITHIN THE PROJECT LIMITS. CONTRACTOR TO RELOCATE AS NECESSARY.

DRMP
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5808 FARRINGDON PLACE
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(919) 872-5115
NC LICENSE NO. F-1524
www.drmp.com

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 050515 ENGINEER KAYLA M POLITO
12/18/2025

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 044113 ENGINEER RYAN P MITCHELL
2/5/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

BEGIN CONSTRUCTION
-Y- STA. 101+97.16

BEGIN TIP PROJECT HL-0008D
-L- STA. 29+45.00

-L- POC Sta. 30+16.76=
-Y- POT Sta. 102+68.74

-L- PC Sta. 29+33.70

-Y- PT Sta. 101+69.37

-L- PT Sta. 33+51.56

-L- SUNSET LAKE ROAD (SR 1301)

-Y- LOCKLEY ROAD (SR 3973)

S 57° 30′ W

S 36° 35′ 43.4″ E

S 31° 59′ 28.4″ E

R 2721A

R 40′

R 2.5′

MILL AND OVERLAY TO LIMITS OF RADIUS TIE-IN -L- STA. 30+26.53, OFF. = ~71.5′

NCDOT TYPE 1C MODIFIED CURB RAMP

GRADE TO DRAIN

DESIGN FROM R-2721A PLANS

DRAINAGE FROM R-2721A PLANS

TIE TO TBJB FROM R-2721A PROJECT

REMOVE 18″ PIPE

REMOVE 15″ PIPE FROM R-2721A PROJECT

REMOVE TBJB FROM R-2721A PROJECT

REMOVE 18″ PIPE FROM R-2721A PLANS

TIE TO CB FROM R-2721A PROJECT

REPLACE APPROX. 23 LF 2′-6″ C&G IN KIND IN PLACE ONCE DRAINAGE UPGRADES ARE COMPLETE

NCDOT TYPE 3 MODIFIED CURB RAMP

END MILL AND OVERLAY -L- STA. 30+25.00

MILL AND OVERLAY TO LIMITS OF RADIUS TIE-IN -L- STA. 30+44.09, OFF. = ~71.5′

BEGIN CURB AND GUTTER -L- STA. 30+44.09

EXISTING RIGHT-OF-WAY

CONTRACTOR TO REMOVE THREE (3) STUMPS

SEE NOTE A THIS SHEET

CONCRETE DRIVEWAY TIE-IN

UPDATE TIE-IN

REMOVE 15″ PIPE

REMOVE 18″ PIPE

REMOVE CB

REMOVE FES

5″ MONOLITHIC CONC. ISLAND

END MONOLITHIC CONC. ISLAND +47.73

2′-6″ C&G

1′-6″ C&G

7′ MULTIUSE PATH

2′ PLANTING STRIP

2′ FDPS

5′ SIDEWALK

18″ PIPE

18″ RCP-IV

15″ RCP-IV

8″ RCP-IV

PUE

PI Sta 31+42.74
Δ = 4° 36′ 15.1″ (LT)
D = 1° 06′ 06.6″
L = 417.86′
T = 209.04′
R = 5,200.00′
e = NC

PI Sta 100+85.04
Δ = 12° 51′ 10.7″ (LT)
D = 7° 35′ 19.8″
L = 169.37′
T = 85.04′
R = 755.00′
e = EXIST.

NOTE A:
3 TONS CLASS B RIP RAP
10 SY GEOTEXTILE FABRIC
SEE NCDOT STD. 876.02

FOR -L- & -Y- PROFILES, SEE SHEET NO. 7

INSET MATCHLINE

PAVING LIMITS

BEGIN MILL AND OVERLAY -L- STA. 27+50.00

MATCHLINE -L- STA. 37+85.00 SEE SHEET 5

JAMES AND EVELYN BREWINGTON DB 3613 PG 948 BM 1967 PG 101

EMMA LEACH DB 1952 PG 661 BM 1967 PG 101

APEX NORTH CAROLINA DB 17872 PG 2468 BM 1967 PG 101

RUBY AND JAMES SIDNEY DB 12108 PG 2082 BM 1967 PG 101

JAMES SIDNEY DB 2940 PG 614 BM 1967 PG 101

JAMES AND ELLA SIDNEY DB 2132 PG 699 BM 1967 PG 101

LEON AND LINDA BAKER DB 2964 PG 711 BM 1967 PG 101

MICHAEL AND BRENDA JACKSON DB 4222 PG 443 BM 1967 PG 101

WOODCREEK NEIGHBORHOOD ASSN DB 13338 PG 1672 BM 2008 PG 1398

JENNIFER FAULK AND ANTHONY ARTIS DB 17249 PG 2601 BM 2008 PG 1398

GRAHAM RAINES, JR DB 4113 PG 474 BM 1959 PG 167

ASCENT CAPITAL MANAGEMENT LLC DB 18225 PG 2494 BM 1959 PG 167

DAVID CARLSON AND ELIZABETH CARLSON DB 17389 PG 2311 BM 2008 PG 1398

MARK AND ARLENE MCDONALD DB 8310 PG 265 BM 1967 PG 101

DALE HEMRICK AND STEVEN NORRIS DB 15303 PG 1116 BM 1991 PG 825

GRADY AND DORETHA MCKEY DB 4972 PG 217 BM 1991 PG 825

WAKE ACQUISITIONS LLC DB 11628 PG 548 BM 1967 PG 101

DONALD WINSTON DB 7396 PG 16 BM 1967 PG 101

8/22/2025
(Pr:8) HL_0008D_Rdy_psh04_FBO.dgn
User: Ryan.Jubb

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

8/17/99

REVISIONS

NOTES:
1. DRIVEWAYS IN A CURB AND GUTTER SECTION ARE 20' MIN. UNLESS OTHERWISE NOTED. DRIVEWAYS IN A SHOULDER SECTION ARE 12' MIN. PAVED WIDTH UNLESS OTHERWISE NOTED, WITH TOTAL GRADED WIDTH OF NO LESS THAN 16'.
2. ALL DIMENSIONS ARE TO EDGE OF TRAVEL UNLESS OTHERWISE SPECIFIED.
3. MAINTAIN ACCESS TO ALL MAILBOXES WITHIN THE PROJECT LIMITS. CONTRACTOR TO RELOCATE AS NECESSARY.
4. CONTRACTOR TO REPAIR SIGNAL LOOPS DAMAGED DURING MILLING AND OVERLAY OPERATION.

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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050515 KAYLA M. POLITO
2/5/2026

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044113 RYAN P. MITCHELL
2/5/2026

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MATCHLINE -L- STA. 37+85.00 SEE SHEET 4

MATCHLINE -Y1- STA. 103+10.00 SEE SHEET 6

NAD 83/2011

-L- PC Sta. 38+28.41

-L- PT Sta. 40+07.69

-L- POT Sta. 46+28.39= -Y1- POT Sta.103+75.06

END TIP PROJECT HL-0008D -L- STA. 46+07.40

-L- SUNSET LAKE ROAD (SR 1301)

-Y1- HOLLY SPRINGS ROAD (SR 1152)

S 36° 04' 54.5" E

S 36° 35' 43.4" E

NOTE A:
3 TONS CLASS B RIP RAP
10 SY GEOTEXTILE FABRIC
SEE NCDOT STD. 876.02

-L-
PI Sta 39+18.06
Δ = 0° 30' 49.0" (RT)
D = 0° 17' 11.3"
L = 179.28'
T = 89.64'
R = 20,000.00'
e = NC

FOR -L- PROFILE, SEE SHEET NO. 7

2/4/2026
Proj: HL0008D_Rdy_psh05_FBO.dgn
User: mlindsey

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

8/17/99

REVISIONS

NOTES:
1. DRIVEWAYS IN A CURB AND GUTTER SECTION ARE 20′ MIN. UNLESS OTHERWISE NOTED. DRIVEWAYS IN A SHOULDER SECTION ARE 12′ MIN. PAVED WIDTH UNLESS OTHERWISE NOTED, WITH TOTAL GRADED WIDTH OF NO LESS THAN 16′.
2. ALL DIMENSIONS ARE TO EDGE OF TRAVEL UNLESS OTHERWISE SPECIFIED.
3. MAINTAIN ACCESS TO ALL MAILBOXES WITHIN THE PROJECT LIMITS. CONTRACTOR TO RELOCATE AS NECESSARY.

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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	6
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050515 KAYLA M. POLITO
2/5/2026

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044113 RYAN P. MITCHELL
2/5/2026

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HOLLY SPRINGS ROAD LLC
DB 16543 PG 631
BM 2012 PG 1156

HOLLY SPRINGS ROAD LLC
DB 16543 PG 631
BM 2012 PG 1156

QUINN INVESTMENTS PROPERTIES LLC
DB 12894 PG 128
DB 12886 PG 744
BM 2004 PG 448

LEONARD AND KATHERINE SHAFFER
DB 15869 PG 191
BM 1967 PG 101

MICHAEL EVANS
DB 15470 PG 1762
BM 1967 PG 101

SHARON CUFFEE
DB 11872 PG 618
BM 1967 PG 101

NAD 83/2011

100+00 +98.25 189.50 — RIP-RAP ENERGY DISSIPATOR BASIN SEE DETAIL A THIS SHEET — Q10=24.50 CFS

+67.00 183.75 — BZ 1 — +71.00 164.00 — BZ 2 — +02.25 169.50 — BZ — PDE — 600 CUT

+11.02 98.00 — 30" RCP-IV — 601 w/ MF

+12.25 88.00 — +30.00 98.00 — +32.75 55.00 — 602 CB

+09.00 55.00 — +93.00 55.00 — +93.00 80.75 — RETAIN CB — 16′ — 8′ MULTIUSE PATH

+00.00 73.00 — +55.00 73.00 — PAVING LIMITS (TYP.) — R 30′ — 30" RCP-IV — 603 CB

+40.00 65.00 EX. R/W — NCDOT TYPE 1 MODIFIED CURB RAMP — TIE TO EXIST. +34.08 — REMOVE 24" PIPE — TIE TO EXIST. +66.13 — NCDOT TYPE 1 MODIFIED CURB RAMP — REMOVE CB — R 30′ — 4.5′ SIDEWALK — 30" RCP-IV — 604 CB — REMOVE 18" PIPE

PERMANENT UTILITY EASEMENT FROM U-6243 PROJECT

RIGHT-OF-WAY FROM U-6243 PROJECT

PERMANENT DRAINAGE EASEMENT FROM U-6243 PROJECT

FROM U-6243 PLANS — REMOVE CB

RETAIN PIPE — REMOVE JB

REPLACE EXISTING 2′-6″ C&G AND EXISTING SIDEWALK IN KIND IN PLACE ONCE DRAINAGE UPGRADES ARE COMPLETE

REMOVE 24" PIPE

FROM U-6243 PLANS

REPLACE EXISTING 2′-6″ C&G AND EXISTING SIDEWALK IN KIND IN PLACE ONCE DRAINAGE UPGRADES ARE COMPLETE

FROM U-6243 PLANS

-Y1- PI Sta 99+00.00

-Y1- HOLLY SPRINGS ROAD (SR 1152) — N 31° 42′ 17.4″ E

SR 1152 HOLLY SPRINGS RD 24′ BST

SR 1152 HOLLY SPRINGS RD 22′ BST

SR 1152 HOLLY SPRINGS RD BST VARIES

-Y1- PI Sta 100+00.00

RIGHT-OF-WAY FROM U-6243 PROJECT

PERMANENT UTILITY EASEMENT FROM U-6243 PROJECT

BEGIN CONSTRUCTION
-Y1- STA. 100+02.45

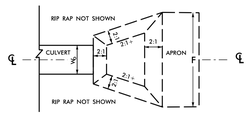
MATCHLINE -Y1- STA. 103+10.00
SEE SHEET 5

-Y1-
PI Sta 99+50.00
△ = 1° 38′ 13.3" (LT)
D = 1° 38′ 13.3"
L = 100.00′
T = 50.00′
R = 3,500.00′
e = EXIST.

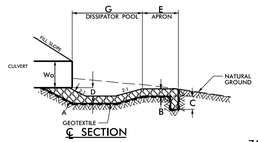
DETAIL A
RIP-RAP ENERGY DISSIPATOR BASIN

DIM. (ft)	RIP RAP BASIN 1 S18 OUT
A	2.5
B	1.5
C	1.0
D	1.5
E	2.5
F	9.5
G	7.5

ALL DIMENSIONS APPROXIMATE



PLAN



℄ SECTION

QUANTITIES
20 TONS CLASS 1 RIP RAP
28 SY GEOTEXTILE FABRIC

7/08

2/4/2026
P:\...\HL0008D_Rdy_psh06_FBO.dgn
User:mlindsey

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

5/28/99

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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	7

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050515 ENGINEER KATIA M. POULOS
12/18/2025

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044113 ENGINEER PAIGE P. MITCHELL
2/5/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

–L– SR 1301 (SUNSET LAKE ROAD)

PI = 30+50.00
EL = 414.88'
VC = 50'
K = 114

PI = 32+50.00
EL = 412.35'
VC = 300'
K = 590

PI = 37+00.00
EL = 404.38'
VC = 380'
K = 474

BEGIN MILL & OVERLAY
–L– PC STA. 27+50.00

END MILL & OVERLAY
BEGIN GRADE –L– PC STA. 30+25.00
EL. = 415.30'

BEGIN TIP PROJECT HL-0008D
–L– STA. 29+45.00

–L– STA. 30+16.76 =
–Y– STA. 102+68.74

–L– PT STA. 30+75.00
EL. = 414.56'

–L– PC STA. 31+00.00
EL. = 414.24'

–L– PT STA. 34+00.00
EL. = 409.69'

–L– PC STA. 35+10.00
EL. = 407.75'

–1.7000%
–1.2627%
–1.2627%
–1.7711%
–1.7711%
–0.9701%

EXISTING GROUND

PROPOSED GRADE

FOR –L– PLAN VIEW, SEE SHEETS 4 & 5

465 455 445 435 425 415 405 395 385 375

24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00

–L– SR 1301 (SUNSET LAKE ROAD)

PI = 39+35.00
EL = 402.10'
VC = 70'
K = 50

PI = 40+05.00
EL = 400.45'
VC = 70'
K = 66

PROPOSED GRADE

–L– PC STA. 39+00.00
EL. = 402.44'

–L– PT STA. 38+90.00
EL. = 402.54'

–L– PC/PT STA. 39+70.00
EL. = 401.28'

–L– PT STA. 40+40.00
EL. = 400.00'

–0.9701%
–0.9701%
–2.3513%
–1.2943%

END GRADE –L– STA. 40+50.00
BEGIN MILL & OVERLAY
EL. = 399.87'

EXISTING GROUND

END TIP PROJECT HL-0008D
–L– STA. 46+07.40

END MILL & OVERLAY LT
–L– STA. 45+35.00

END MILL & OVERLAY RT
–L– 45+58.10

FOR –L– PLAN VIEW, SEE SHEETS 4 & 5

465 455 445 435 425 415 405 395 385 375

38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00

–Y– SR 3973 (LOCKLEY ROAD)

–L– STA. 30+16.76 =
–Y– STA. 102+68.74

BEGIN CONSTRUCTION
–Y– STA. 101+97.16

EXISTING GROUND

–L– STA. 30+17.00
(OFFSET = 33.75' LT) =
–Y– STA. 102+34.99

FOR –Y– PLAN VIEW, SEE SHEET NO. 4

450 440 430 420 410 400 390

100+00 101+00 102+00 103+00

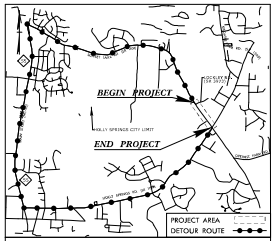
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User: RJohnson

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HL-0008D	RW01	09

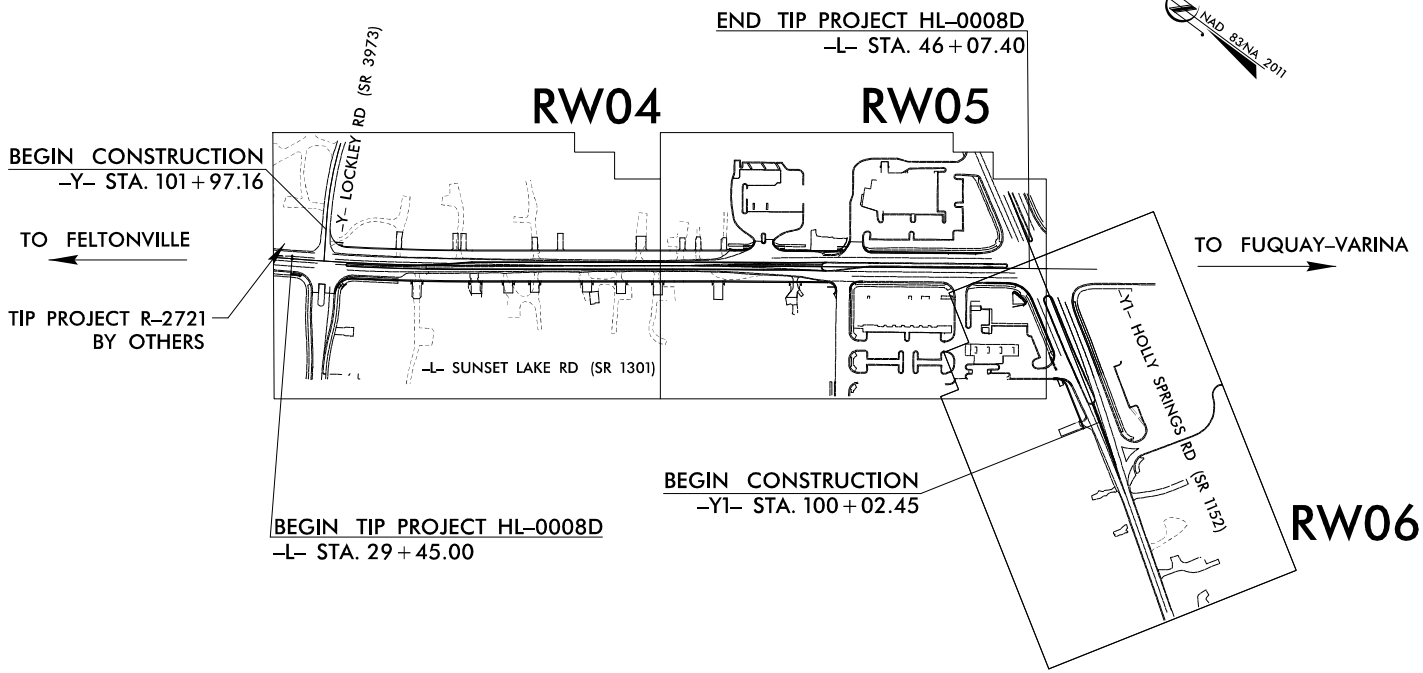
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

WAKE COUNTY



VICINITY MAP N.T.S.



TIP PROJECT: HL-0008D

05/08/99

16-JUN-2026 08:01
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jasonpreyatte AT PREATTED

GRAPHIC SCALE

50 25 0 50 100
PLANS

NOT TO SCALE

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2721AZ-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 697,986.543(ft) EASTING: 2,070,504.812(ft) ELEVATION: N/A (ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988804
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2721AZ-1" TO -L- STATION 29+45 IS N 84-06'59.3" W 11,712.27(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared In the Office of:

GEL Engineering of NC, Inc. DBA
GEL SOLUTIONS
an Affiliate of THE GEL GROUP, INC.
2700 SUMNER BLVD.
SUITE 106
RALEIGH, NC 27616
(919) 544-1100
WWW.GEL-SOLUTIONS.COM

NORTH CAROLINA GEL ENGINEERING OF NC, INC. NO. C-1938 CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA PROFESSIONAL SEAL L-3996 PARKS H. ICENHOUR JR. LAND SURVEYOR

Digitally signed by Parks H. Icenhour, Jr.
Date: 2026.06.16 08:08:25 -04'00'

SIGNATURE: *Date:*

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-2721	RW02C-3

Location and Surveys

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
8760 TRYON ROAD
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License #P-1333
formerly DAVIS Engineers & Consultants

PROJECT SURVEYOR

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

2/20/2020

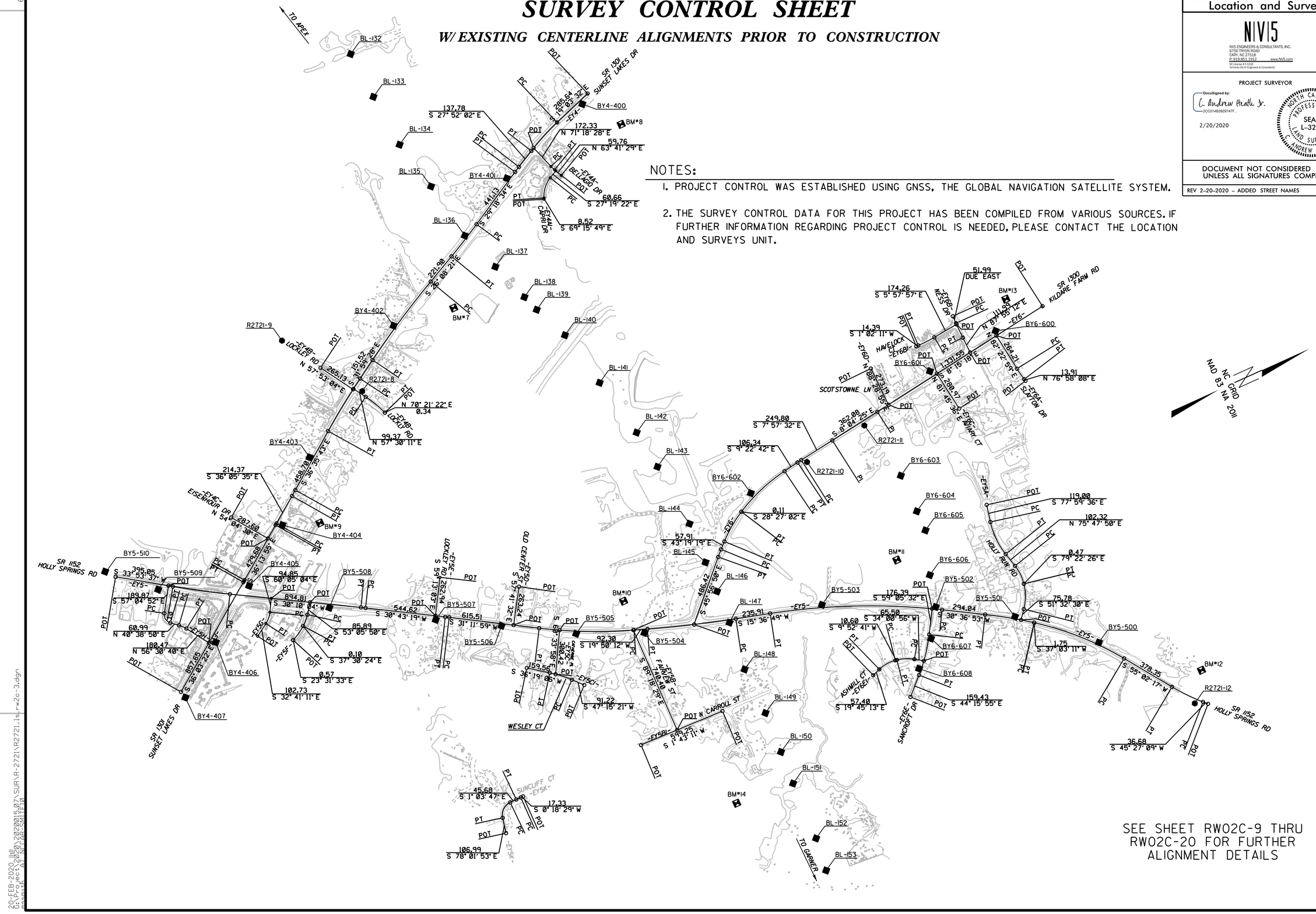
NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REV 2-20-2020 – ADDED STREET NAMES

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



SEE SHEET RW02C-9 THRU RW02C-20 FOR FURTHER ALIGNMENT DETAILS

6/2/99

REVISIONS

20-FEB-2020 Jill
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6/2/99

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT SURVEYOR

DocuSigned by: C. Andrew Heath Jr. 2CC014B3929747F...

2/11/2020

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
R-2721	RW02C-9

Location and Surveys

NIV15

NV5 ENGINEERS & CONSULTANTS, INC.
6750 TRYON ROAD
CARY, NC 27518
p 919.653.1935 www.NV5.com
NC License #P1339
formerly CALYX Engineers & Consultants

BL

POINT	DESC.	NORTH	EAST	ELEVATION
2	R2721-2	705422.6590	2045187.5780	317.19
100	BL-100	705404.5510	2045777.8900	338.15
3	R2721-3	705375.9420	2046516.6380	364.61
101	BL-101	705337.6650	2047302.9270	390.95
102	BL-102	705243.6530	2047986.9450	401.66
103	BL-103	705203.3940	2048304.3640	407.63
104	BL-104	705139.1160	2048682.8300	404.39
105	BL-105	705068.5510	2048902.0400	413.81
106	BL-106	705002.5230	2049254.4950	397.19
107	BL-107	704932.2500	2049675.2440	380.25
108	BL-108	704815.9590	2050092.4730	389.51
109	BL-109	704741.1900	2050445.7360	389.36
110	BL-110	704612.1970	2050864.1400	378.62
111	BL-111	704494.2990	2051162.1070	370.79
112	BL-112	704342.4440	2051488.4230	356.37
113	BL-113	704072.7900	2051862.2750	357.09
114	BL-114	703880.7160	2052041.2630	355.58
115	BL-115	703597.6480	2052275.7020	350.03
116	BL-116	703254.5540	2052504.7060	350.29
117	BL-117	702933.2950	2052708.5440	379.74
118	BL-118	702531.2240	2052932.3310	403.32
119	BL-119	702296.3430	2053079.0980	406.55
120	BL-120	702039.2550	2053229.3580	390.61
121	BL-121	701731.2810	2053454.4720	406.04
122	BL-122	701463.4710	2053744.9530	392.10
123	BL-123	701220.9380	2053960.9440	413.00
124	BL-124	700954.5830	2054256.3540	403.62
B124	BL-124B	700871.5250	2054367.6760	416.60
125	BL-125	700784.0530	2054485.3950	419.49
126	BL-126	700657.8970	2054700.6430	418.16
127	BL-127	700518.4820	2055001.5280	385.88
128	BL-128	700372.7490	2055347.7090	414.87
129	BL-129	700221.9870	2055668.9530	426.28
130	BL-130	700172.3230	2055944.9840	419.53
131	BL-131	700101.3280	2056381.5550	384.75
132	BL-132	700047.1670	2056813.2700	390.37
133	BL-133	700067.8220	2057141.8500	375.49
134	BL-134	700096.0250	2057511.1330	387.44
135	BL-135	700173.7030	2057857.3240	399.99
136	BL-136	700245.3790	2058256.8780	424.61
137	BL-137	700346.7300	2058534.8960	417.28
138	BL-138	700441.3110	2058803.9070	401.76
139	BL-139	700482.2970	2058916.6520	390.49
140	BL-140	700585.3420	2059153.0620	373.18
141	BL-141	700666.9680	2059544.8810	396.56
142	BL-142	700756.5390	2059956.5650	404.27
143	BL-143	700789.4820	2060226.8800	401.02
144	BL-144	700828.2970	2060669.0040	428.64
145	BL-145	700819.1690	2060952.7020	429.83
146	BL-146	700809.1160	2061164.6970	424.71
147	BL-147	700798.7480	2061392.6590	407.93
148	BL-148	700761.2120	2061724.6390	379.48
149	BL-149	700767.7340	2062053.2380	390.37
150	BL-150	700755.1590	2062337.5680	376.03
151	BL-151	700741.6690	2062566.4640	345.45
152	BL-152	700730.5000	2062970.6810	354.45
153	BL-153	700702.6480	2063197.5310	364.32
154	BL-154	700673.8310	2063545.8240	378.24
155	BL-155	700671.3090	2063860.2700	393.47
156	BL-156	700676.9720	2064336.0560	394.23
157	BL-157	700685.8360	2064638.1980	382.61
158	BL-158	700723.9190	2064936.8920	370.10
159	BL-159	700779.3150	2065340.2280	397.34
160	BL-160	700874.2410	2065673.2520	406.35
161	BL-161	700951.1800	2066094.1610	392.92
162	BL-162	701021.9160	2066405.9540	384.99
163	BL-163	701048.4540	2066580.5050	357.69
164	BL-164	701113.8320	2066787.8420	339.22
165	BL-165	701183.7140	2067079.5950	349.06
166	BL-166	701240.6310	2067424.2940	385.86
167	BL-167	701384.1250	2067818.7700	397.22
168	BL-168	701451.8320	2068367.3400	427.51
169	BL-169	701485.2420	2068984.1780	422.98
170	BL-170	701493.7210	2069546.2810	399.43
171	BL-171	701473.8720	2069899.4850	393.20
172	BL-172	701472.5210	2070087.2320	381.36
173	BL-173	701445.2070	2070332.3870	372.13
174	BL-174	701389.2840	2070708.6060	408.46
175	BL-175	701347.8630	2071107.5070	423.99
176	BL-176	701287.8430	2071534.5690	432.06
177	BL-177	701251.8770	2071975.7520	434.74
178	BL-178	701196.5150	2072354.1390	449.18
179	BL-179	701156.4100	2072626.7400	456.21
180	BL-180	701127.5440	2072900.7160	439.99
181	BL-181	701092.0130	2073297.5490	423.24
182	BL-182	701017.9600	2073688.0360	403.28
183	BL-183	700993.9350	2073981.3470	414.35
184	BL-184	700953.4600	2074276.9900	400.24
185	BL-185	700926.1030	2074606.6820	376.68

BL

POINT	DESC.	NORTH	EAST	ELEVATION
186	BL-186	700896.0700	2074911.4680	402.74
187	BL-187	700842.5020	2075150.1060	388.61
188	BL-188	700803.8550	2075317.6540	388.99
189	BL-189	700755.5550	2075524.0060	400.26
190	BL-190	700665.3230	2075887.3270	412.11
191	BL-191	700584.7810	2076154.8230	400.96
192	BL-192	700422.6560	2076628.6570	385.56
193	BL-193	700287.4150	2077055.5120	385.84
194	BL-194	700110.1400	2077354.1460	399.65
195	BL-195	700051.2280	2077784.9330	408.65
196	BL-196	699915.5870	2078266.5830	390.59
197	BL-197	699771.7390	2078692.3630	375.61
198	BL-198	699619.9970	2079016.6010	392.00
199	BL-199	699675.6560	2079252.1190	405.64
200	BL-200	699669.5160	2079656.6750	412.43
201	BL-201	699444.0620	2079769.9980	409.56
202	BL-202	699352.1300	2080161.5560	403.98
203	BL-203	699170.0960	2080668.5250	405.90
204	BL-204	698832.5630	2081030.4270	422.57
205	BL-205	698559.1320	2081488.5190	425.97
206	BL-206	698446.5360	2081889.1860	431.33
207	BL-207	698197.8980	2082212.2140	420.41
208	BL-208	697821.2020	2082550.1970	393.56
209	BL-209	697583.0550	2082776.5940	389.07
210	BL-210	697185.4650	2083077.4660	398.23
211	BL-211	696932.6860	2083301.5020	390.79
212	BL-212	696696.0770	2083492.6430	402.95
213	BL-213	696413.2950	2083724.7650	404.53
23	R2721-23	695795.6540	2084054.3020	387.04
214	BL-214	695751.8390	2084302.8240	376.05
215	BL-215	695492.2920	2084584.0550	376.44
216	BL-216	695312.7430	2084772.4520	383.02
217	BL-217	695030.3170	2085082.5770	371.97
218	BL-218	694762.5710	2085414.4930	359.10
219	BL-219	694568.2450	2085660.7390	345.94
220	BL-220	694122.6700	2085737.0590	333.56
221	BL-221	693995.2150	2086159.2220	322.67
222	BL-222	694020.8930	2086523.6940	353.57
223	BL-223	693875.1450	2086765.8820	373.34
224	BL-224	693696.0090	2087064.6550	378.52
225	BL-225	693591.4080	2087267.2210	374.08
226	BL-226	693482.4660	2087489.8900	378.41
227	BL-227	693257.6690	2087992.1430	351.87
228	BL-228	693089.5360	2088440.0920	339.47
229	BL-229	692983.4550	2088777.6440	329.35
230	BL-230	692877.5520	2089114.3490	331.61
231	BL-231	692796.7900	2089426.4380	346.44
232	BL-232	692663.0040	2090075.4390	343.41
233	BL-233	692633.5450	2090250.9610	327.55
234	BL-234	692595.5090	2090472.0340	332.22
29	R2721-29	692512.4350	2090773.7630	336.79
28	R2721-28	692897.4930	2090734.2390	346.72

BLA

POINT	DESC.	NORTH	EAST	ELEVATION
98	BLA-98	705523.2730	2043545.9040	0.00
99	BLA-99	705482.6080	2044433.8490	0.00
EO2	R2721-2	705422.6590	2045187.5780	0.00

BY-1

POINT	DESC.	NORTH	EAST	ELEVATION
235	BY1-235	707091.0210	2048502.7590	374.57
236	BY1-236	706644.8050	2048225.1920	368.27
237	BY1-237	706199.5280	2047947.4710	362.51
238	BY1-238	705756.6340	2047680.1710	363.48
239	BY1-239	705307.5730	2047425.7980	367.45
240	BY1-240	704759.3350	2047253.8530	370.19
241	BY1-241	704161.2160	2047217.4800	374.79
242	BY1-242	703393.1760	2047398.3570	372.11
4	R2721-4	702702.0830	2047626.7940	363.30
5	R2721-5	701900.3780	2047814.8170	354.38

BY-2

POINT	DESC.	NORTH	EAST	ELEVATION
243	BY2-243	705476.2000	2049270.6240	397.72
244	BY2-244	704445.2480	2049292.6230	395.40

BY-3

POINT	DESC.	NORTH	EAST	ELEVATION
7	R2721-7	702269.1090	2054845.1850	440.31
6	R2721-6	701960.3900	2054110.1260	425.56
300	BY3-300	701925.2750	2053705.2460	409.88
301	BY3-301	702111.8380	2052747.8360	372.97
302	BY3-302	702363.7500	2052129.3260	352.38
303	BY3-303	702520.6420	2051464.1500	381.08

BY-4

POINT	DESC.	NORTH	EAST	ELEVATION
400	BY4-400	701340.6000	2057771.4170	434.04
401	BY4-401	700665.4100	2058019.7520	426.78
402	BY4-402	699551.9150	2058614.6780	424.36
8	R2721-8	699174.2210	2058932.1670	415.35
403	BY4-403	698663.5550	2059193.7190	405.39
404	BY4-404	698305.1820	2059536.6600	399.77
405	BY4-405	697928.9720	2059820.0960	395.28
406	BY4-406	697564.6850	2060075.5480	399.78
407	BY4-407	697221.9060	2060332.8720	392.74

BY-5

POINT	DESC.	NORTH	EAST	ELEVATION
13	R2721-13	704493.4890	2063922.2410	428.43
12	R2721-12	703451.8480	2063195.6560	397.84
500	BY5-500	703028.9160	2062550.1780	368.41
501	BY5-501	702581.8710	2062155.3520	408.51
502	BY5-502	702118.2180	2061873.2750	408.68
503	BY5-503	701420.3130	2061541.6090	373.53
504	BY5-504	700243.5250	2061217.9310	421.31
505	BY5-505	699818.7360	2061032.3870	407.62
506	BY5-506	699379.2170	2060773.7380	389.62
507	BY5-507	698989.0120	2060552.6500	384.08
508	BY5-508	698364.1820	2060180.6040	363.00
509	BY5-509	697356.1290	2059588.8840	388.77
510	BY5-510	697077.9340	2059328.9850	389.33

BY-6

POINT	DESC.	NORTH	EAST	ELEVATION
603	BY6-603	702270.6290	2060963.3110	430.81
604	BY6-604	702269.9730	2061228.5340	416.07
605	BY6-605	702269.6560	2061370.6570	397.91
606	BY6-606	702171.6090	2061659.5260	397.52
607	BY6-607	702001.4020	2062055.5180	408.81
608	BY6-608	701842.6150	2062208.5500	397.67

BY-6A

POINT	DESC.	NORTH	EAST	ELEVATION
600	BY6-600	703262.3060	2060332.5220	449.95
601	BY6-601	702742.9420	2060398.4760	447.19
11	R2721-11	702185.4050	2060550.4930	443.25
10	R2721-10	701728.1820	2060615.9360	441.85

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

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6/2/99

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-2721	RW02C-14

Location and Surveys

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
6750 TRYON ROAD
CARY, NC 27518
p: 919.851.1919 www.NV5.com
NC License #P1339
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

2/11/2020

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EY4

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	701402.854	2057721.078							
LINE			S 19°03'31.6" E	285.64					
PC	701132.877	2057814.349							
CURVE			S 23°27'46.8" E	261.09	08°48'30.3"(LT)	03°22'13.2"	261.35	130.93	1700.00
PT	700893.371	2057918.305							
LINE			S 27°52'01.9" E	137.78					
PC	700771.568	2057982.707							
CURVE			S 28°35'18.1" E	42.79	01°26'32.4"(LT)	03°22'13.2"	42.79	21.40	1700.00
PT	700733.992	2058003.184							
LINE			S 29°18'34.3" E	441.13					
PC	700349.330	2058219.131							
CURVE			S 27°43'27.6" E	276.63	03°10'13.4"(RT)	01°08'45.3"	276.67	138.37	5000.00
PT	700104.456	2058347.825							
LINE			S 26°08'20.9" E	221.90					
PC	699905.247	2058445.586							
CURVE			S 29°03'54.6" E	663.61	05°51'07.5"(LT)	00°52'53.3"	663.90	332.24	6500.00
PT	699325.208	2058767.969							
LINE			S 31°59'28.4" E	151.52					
PC	699196.702	2058848.242							
CURVE			S 34°17'35.9" E	417.75	04°36'15.1"(LT)	01°06'06.6"	417.86	209.04	5200.00
PT	698851.572	2059083.614							
LINE			S 36°35'43.4" E	458.70					
PC	698483.301	2059357.070							
CURVE			S 36°20'39.3" E	45.59	00°30'08.2"(RT)	01°06'06.6"	45.59	22.79	5200.00
PT	698446.584	2059384.086							
LINE			S 36°05'35.2" E	214.37					
PC	698273.356	2059510.374							
CURVE			S 36°09'45.1" E	12.60	00°08'19.8"(LT)	01°06'06.6"	12.60	6.30	5200.00
PT	698263.183	2059517.809							
LINE			S 36°13'55.0" E	429.68					
PC	697916.588	2059771.775							
CURVE			S 36°08'38.6" E	15.95	00°10'32.8"(RT)	01°06'06.6"	15.95	7.98	5200.00
PT	697903.705	2059781.184							
LINE			S 36°03'22.2" E	857.65					
POT	697210.349	2060285.976							

EY4A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	700916.358	2057906.374							
LINE			N 71°18'28.0" E	172.33					
PC	700971.588	2058059.618							
CURVE			N 67°29'58.3" E	33.21	07°36'59.5"(LT)	22°55'05.9"	33.23	16.64	250.00
PT	700984.297	2058100.299							
LINE			N 63°41'28.5" E	59.76					
POT	701010.783	2058153.868							

EY4A1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	700989.296	2058110.410							
LINE			S 27°19'22.0" E	60.66					
PC	700935.407	2058138.251							
CURVE			S 48°17'35.6" E	143.15	41°56'27.1"(LT)	28°38'52.4"	146.40	76.65	200.00
PT	700840.164	2058245.124							
LINE			S 69°15'49.1" E	8.52					
POT	700837.149	2058253.088							

EY4B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	698981.770	2058670.772							
LINE			N 57°53'04.0" E	265.13					
POT	699122.718	2058895.328							
LINE			N 32°55'55.0" W	4.64					
POT	699126.611	2058892.807							
LINE			N 57°30'11.0" E	99.37					
PC	699180.000	2058976.620							
CURVE			N 63°55'46.4" E	169.01	12°51'10.7"(RT)	07°35'19.8"	169.37	85.04	755.00
PT	699254.276	2059128.436							
LINE			N 70°21'21.7" E	0.34					
POT	699254.392	2059128.760							

EY4C

POINT	N	E	BEARING	DIST
POT	698009.827	2059346.919		
LINE			N 54°04'30.0" E	287.60
POT	698178.567	2059579.811		

EY5

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	703532.625	2063235.828							
LINE			S 45°27'09.2" W	36.68					
PC	703506.896	2063209.690							
CURVE			S 50°14'43.1" W	233.95	09°35'07.9"(RT)	04°05'33.2"	234.22	117.38	1400.00
PT	703357.288	2063029.835							
LINE			S 55°02'17.1" W	378.35					
PC	703140.478	2062719.761							
CURVE			S 46°02'44.2" W	656.48	17°59'05.8"(LT)	02°43'42.1"	659.18	332.32	2100.00
PT	702684.825	2062247.165							
LINE			S 37°03'11.3" W	1.75					
PC	702683.431	2062246.113							
CURVE			S 33°50'02.1" W	336.94	06°26'18.3"(LT)	01°54'35.5"	337.11	168.73	3000.00
PT	702403.552	2062058.510							
LINE			S 30°36'53.0" W	294.04					
PC	702150.501	2061908.769							
CURVE			S 23°06'50.8" W	1168.30	15°00'04.3"(LT)	01°16'49.3"	1171.65	589.19	4475.00
PT	701075.984	2061450.135							
LINE			S 15°36'48.6" W	235.91					
PC	700848.777	2061386.640							
CURVE			S 17°43'30.3" W	604.26	04°13'23.3"(RT)	00°41'55.4"	604.40	302.34	8200.00
PT	700273.198	2061202.672							
LINE			S 19°50'11.9" W	92.30					
PC	700186.376	2061171.351							
CURVE			S 25°31'05.4" W	643.49	11°21'47.0"(RT)	01°45'46.6"	644.55	323.33	3250.00
PT	699605.657	2060894.137							
LINE			S 31°11'58.9" W	615.51					
PC	699079.166	2060575.286							
CURVE			S 30°57'38.8" W	27.10	00°28'40.1"(LT)	01°45'46.6"	27.10	13.55	3250.00
PT	699055.926	2060561.344							
LINE			S 30°43'18.8" W	544.62					
PC	698587.739	2060283.113							
CURVE			S 30°26'41.3" W	31.43	00°33'15.1"(LT)	01°45'46.6"	31.44	15.72	3250.00
PT	698560.638	2060267.185							
LINE			S 30°10'03.7" W	894.81					
PC	697787.025	2059817.514							
CURVE			S 32°01'50.5" W	390.12	03°43'33.6"(RT)	00°57'17.7"	390.18	195.16	6000.00
PT	697456.298	2059610.607							
LINE			S 33°53'37.3" W	395.05					
POT	697128.381	2059390.308							

EY5A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	702719.863	2061384.162							
LINE			S 77°59'36.4" E	119.00					
PC	702695.109	2061500.555							
CURVE			N 88°54'06.8" E	241.70	26°12'33.7"(LT)	10°44'58.8"	243.82	124.08	533.00
PT	702699.741	2061742.205							
LINE			N 75°47'50.0" E	102.32					
PC	702724.846	2061841.400							
CURVE			N 88°12'42.0" E	135.44	24°49'44.2"(RT)	18°11'20.9"	136.50	69.34	315.00
PT	702729.073	2061976.772							
LINE			S 79°22'25.9" E	0.47					
PC	702728.986	2061977.237							
CURVE			S 65°27'27.9" E	171.72	27°49'55.9"(RT)	16°02'57.3"	173.42	88.45	357.00
PT	702657.661	2062133.440							
LINE			S 51°32'30.0" E	75.78					
POT	702610.532	2062192.777							

EY5B

POINT	N	E	BEARING	DIST
POT	700182.953	2061170.115		
LINE			S 89°18'29.0" E	740.40
POT	700174.012	2061910.462		

EY5B1

POINT	N	E	BEARING	DIST
POT	700507.829	2061920.485		
LINE			S 0°43'11.0" W	599.25
POT	699908.851	2061902.501		

EY5C

POINT	N	E	BEARING	DIST
POT	699726.093	2060963.598		
LINE			S 60°33'58.0" E	300.42
POT	699578.460	2061225.243		

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

10-FEB-2020 16:50
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smith

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
HL0008D	RW02D-1
Location and Surveys	

GEL SOLUTIONS
an Affiliate of THE GEL GROUP, INC
2700 SUMNER BLVD.
SUITE 100
RALEIGH,NC 27616
(919) 544-1100
WWW.GEL-SOLUTIONS.COM

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Parks H. Icenhour Jr., PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 24th day of April, 2025.

Digitally signed by Parks H. Icenhour, Jr.
Date: 2025.04.24 10:59:55 -04'00'

Professional Land Surveyor L-3996

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	700891.8840	2057919.0923
PC	23+20.76	699724.8985	2058537.6026
PT	27+82.18	699325.2085	2058767.9692
PC	29+33.70	699196.7020	2058848.2415
PT	33+51.56	698851.5721	2059083.6140
PC	38+28.41	698468.7242	2059367.8943
PT	40+07.69	698324.3097	2059474.1271
POT	47+59.45	697716.7549	2059916.8681

Y

TYPE	STATION	NORTH	EAST
PC	100+00.00	699254.2762	2059128.4358
PT	101+69.37	699179.9996	2058976.6202
POT	102+68.74	699126.6107	2058892.8066

Y1

TYPE	STATION	NORTH	EAST
PC	99+00.00	697419.2750	2059588.8023
PT	100+00.00	697503.5894	2059642.5648
POT	105+70.03	697988.5502	2059942.1391

NOTES:

1. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/07/2025 TO 4/18/2025.

REVISIONS

6/2/99

24-APR-2025 09:26
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Jason Frevatte AT PREVATTE

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
HL0008D	RW03E-1
Location and Surveys	

GEL SOLUTIONS
an Affiliate of THE GEL GROUP, INC
2700 SUMNER BLVD.
SUITE 100
RALEIGH,NC 27616
(919) 544-1100
WWW.GEL-SOLUTIONS.COM

GEL ENGINEERING OF NC, INC. NO. C-1938 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA PROFESSIONAL SEAL L-3996 LAND SURVEYOR PARKS H. ICENHOUR JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST	
L	30+47.55	-60.25	699133.8420	2058959.9987	
L	30+58.50	71.52	699052.3232	2058855.8870	
L	30+91.00	46.25	699038.8945	2058895.1153	
L	33+51.56	46.25	698823.9996	2059046.4818	PK NAIL SET
L	33+51.56	-60.25	698887.4987	2059131.9870	
L	38+28.42	46.25	698441.1516	2059330.7621	
L	38+28.42	-60.25	698504.6427	2059416.2672	
L	39+38.00	-60.25	698422.6840	2059476.8027	
L	39+38.35	46.25	698352.9150	2059395.9059	
L	39+40.00	-50.07	698408.5733	2059474.5284	
L	41+08.02	-48.25	698271.6432	2059572.2090	
L	41+88.89	-48.25	698206.2885	2059619.8347	

PERMANENT EASEMENT-E IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	99+67.00	-183.75	697573.6345	2059469.6788
Y1	99+71.00	-164.00	697566.3228	2059488.4152
Y1	99+93.00	-80.75	697540.2127	2059570.2656
Y1	99+98.25	-189.50	697601.7719	2059480.4742
Y1	100+02.25	-169.50	697594.5832	2059499.5423
Y1	100+09.00	-55.00	697540.1512	2059600.5025
Y1	100+12.25	-88.00	697560.2591	2059574.1352
Y1	100+32.75	-55.00	697560.3569	2059612.9842

PERMANENT EASEMENT-E IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST	
L	31+01.25	46.25	699030.2994	2058920.8648	
L	31+02.00	67.25	699017.9748	2058883.8449	
L	31+31.75	71.25	698990.7480	2058897.3907	
L	31+31.75	86.25	698993.5565	2058901.5274	
L	31+63.00	71.25	698964.5930	2058915.2630	
L	31+63.00	79.75	698959.7763	2058920.2594	
L	31+81.75	86.25	698940.4072	2058913.7332	
L	31+97.00	-84.50	699025.3535	2059062.6367	
L	31+97.00	-60.25	699011.4816	2059042.7462	
L	32+13.33	79.25	698918.0991	2058937.8293	
L	32+14.00	46.25	698936.5103	2058965.2243	
L	32+20.50	-85.25	699006.8531	2059076.5172	
L	32+28.00	-107.25	699013.5166	2059098.7384	
L	32+44.50	-98.75	698998.7703	2059094.6351	
L	32+47.75	-100.50	698993.8236	2059104.4289	
L	33+71.00	46.25	698808.3944	2059058.0691	
L	33+71.00	57.75	698801.5385	2059048.8362	
L	33+76.00	57.75	698797.5242	2059051.8170	
L	33+76.00	-91.75	698886.6502	2059171.8453	
L	33+76.00	-106.75	698895.5926	2059183.8883	
L	33+76.00	87.75	698779.6394	2059027.7310	
L	33+96.25	87.75	698763.3814	2059039.8033	
L	33+96.25	57.75	698781.2662	2059063.8892	
L	33+96.25	-91.75	698870.3921	2059183.9176	
L	33+96.25	-106.75	698879.3345	2059195.9606	
L	34+01.25	46.25	698784.1077	2059076.1030	
L	34+01.25	57.75	698777.2519	2059066.8700	
L	34+93.00	-101.75	698798.6765	2059249.6248	
L	34+96.00	-91.75	698790.3063	2059243.3846	
L	35+12.25	-108.50	698787.2454	2059266.5202	
L	35+20.00	-86.75	698768.0567	2059253.6781	
L	35+32.00	70.50	698664.6762	2059134.5814	
L	35+32.00	46.25	698679.1330	2059154.0509	
L	35+43.00	-68.25	698733.7925	2059246.1139	
L	35+43.00	-86.75	698749.5908	2059267.3898	
L	35+55.00	70.75	698646.0612	2059148.0924	
L	35+62.75	92.50	698626.8725	2059135.2503	
L	35+79.00	76.00	698623.6626	2059158.1852	
L	35+82.00	85.75	698615.4414	2059152.1458	
L	37+33.50	-66.75	698584.7218	2059364.9010	
L	37+33.50	-60.25	698580.8467	2059359.6824	
L	37+38.25	-66.75	698580.9082	2059367.7328	NOT SET PAINT MARK IN DRIVEWAY
L	37+38.25	-97.00	698598.9420	2059392.0195	NOT SET UNDER CAR
L	37+40.25	77.25	698493.4553	2059253.3125	NOT SET PAINT MARK IN DRIVEWAY
L	37+40.25	92.50	698484.3639	2059241.0688	NOT SET PAINT MARK IN DRIVEWAY
L	37+58.75	-97.00	698582.4833	2059404.2408	
L	37+58.75	-67.00	698564.5985	2059380.1548	
L	37+60.50	92.50	698468.1859	2059253.1410	
L	37+60.50	77.50	698477.0483	2059265.1840	
L	37+64.00	-67.00	698560.3834	2059383.2846	
L	37+64.00	-60.25	698556.3593	2059377.8653	
L	38+24.00	-65.50	698511.3173	2059417.8500	
L	38+24.50	-96.00	698529.0987	2059442.6354	
L	38+25.00	-60.25	698507.3845	2059414.2311	
L	38+29.00	-66.25	698507.7485	2059421.4341	
L	38+44.50	-99.00	698514.7621	2059457.0095	
L	38+49.00	-69.25	698493.4177	2059435.7987	
L	38+51.00	78.25	698404.0052	2059318.4715	
L	38+53.50	94.50	698392.3329	2059306.8950	
L	38+54.00	-70.00	698489.8323	2059439.3879	
L	38+55.50	-60.25	698482.8207	2059432.4478	
L	38+74.00	46.25	698404.3097	2059357.4312	
L	38+74.00	93.00	698376.8220	2059320.2359	
L	38+84.00	46.25	698396.2848	2059363.3586	
L	38+84.00	93.00	698368.8157	2059326.1495	
L	38+84.00	78.25	698377.5761	2059338.0162	
L	39+84.00	94.00	698288.0005	2059384.2581	
L	39+84.00	78.75	698296.9964	2059396.5722	
L	40+05.25	78.00	698280.3402	2059409.6551	
L	40+05.25	93.25	698271.3574	2059397.3315	
L	40+37.75	-50.09	698329.5181	2059532.3076	
L	40+37.75	-61.75	698336.3865	2059541.7329	
L	40+81.00	-63.50	698302.4635	2059568.6188	
L	41+03.75	-92.50	698301.1567	2059605.4543	
L	41+07.94	-50.19	698272.8503	2059573.7247	
L	41+07.99	-92.50	698297.7336	2059607.9489	
L	41+54.35	68.75	698165.2935	2059504.9383	

I, Parks H. Icenhour Jr., PLS, certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

This 7th day of MAY, 2025.

Digitally signed by Parks H. Icenhour, Jr.
Date: 2025.05.07 08:16:17 -04'00'

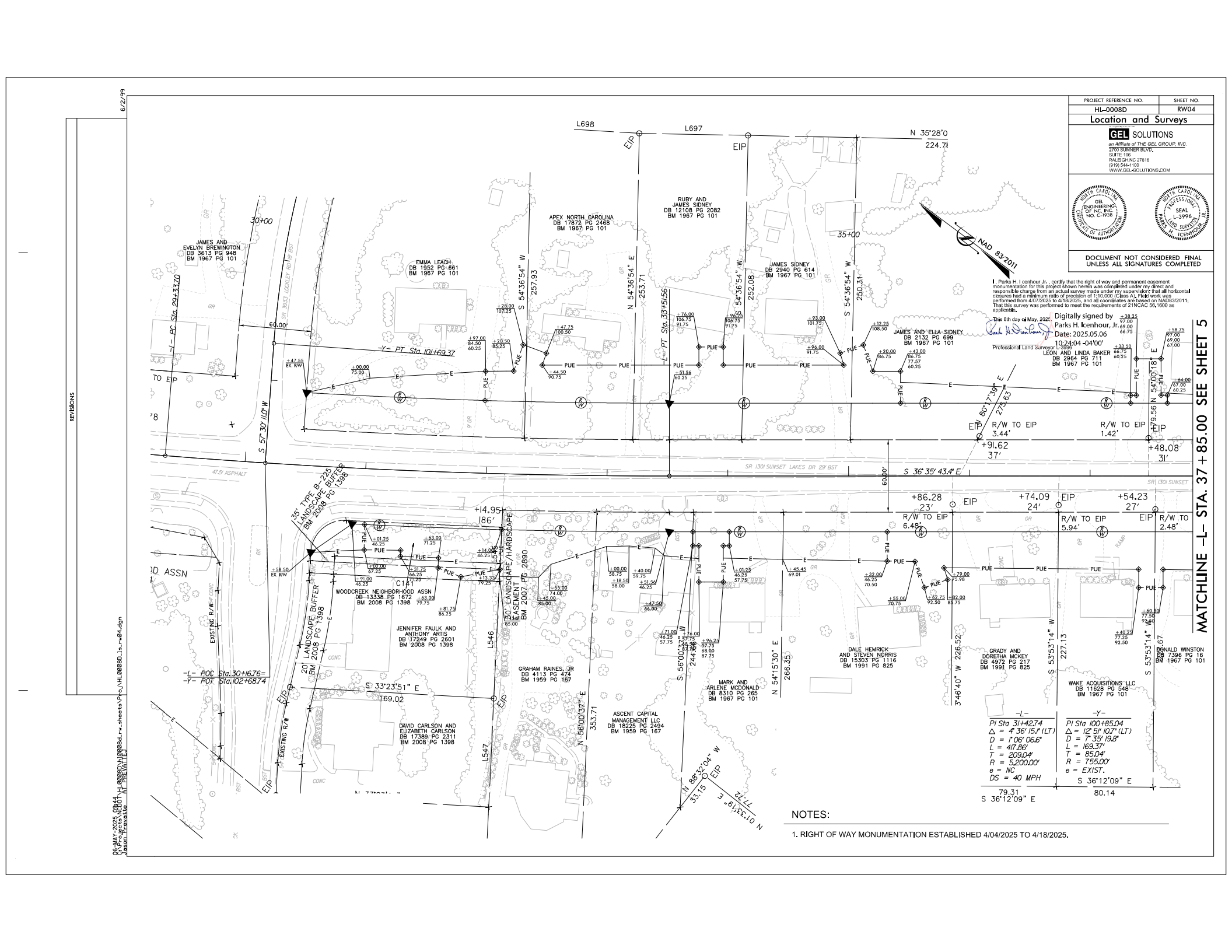
Professional Land Surveyor L-3996

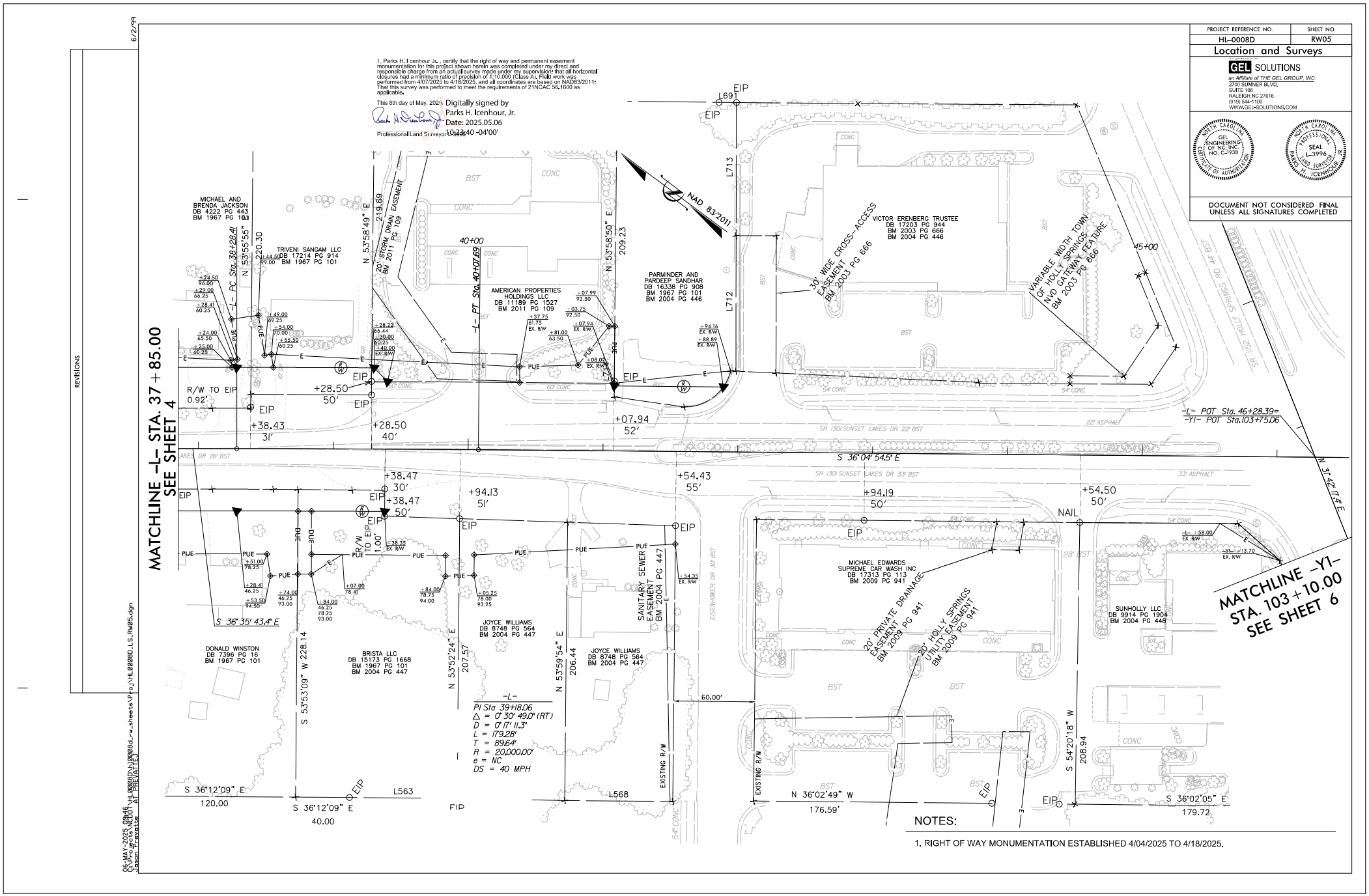
NOTES:

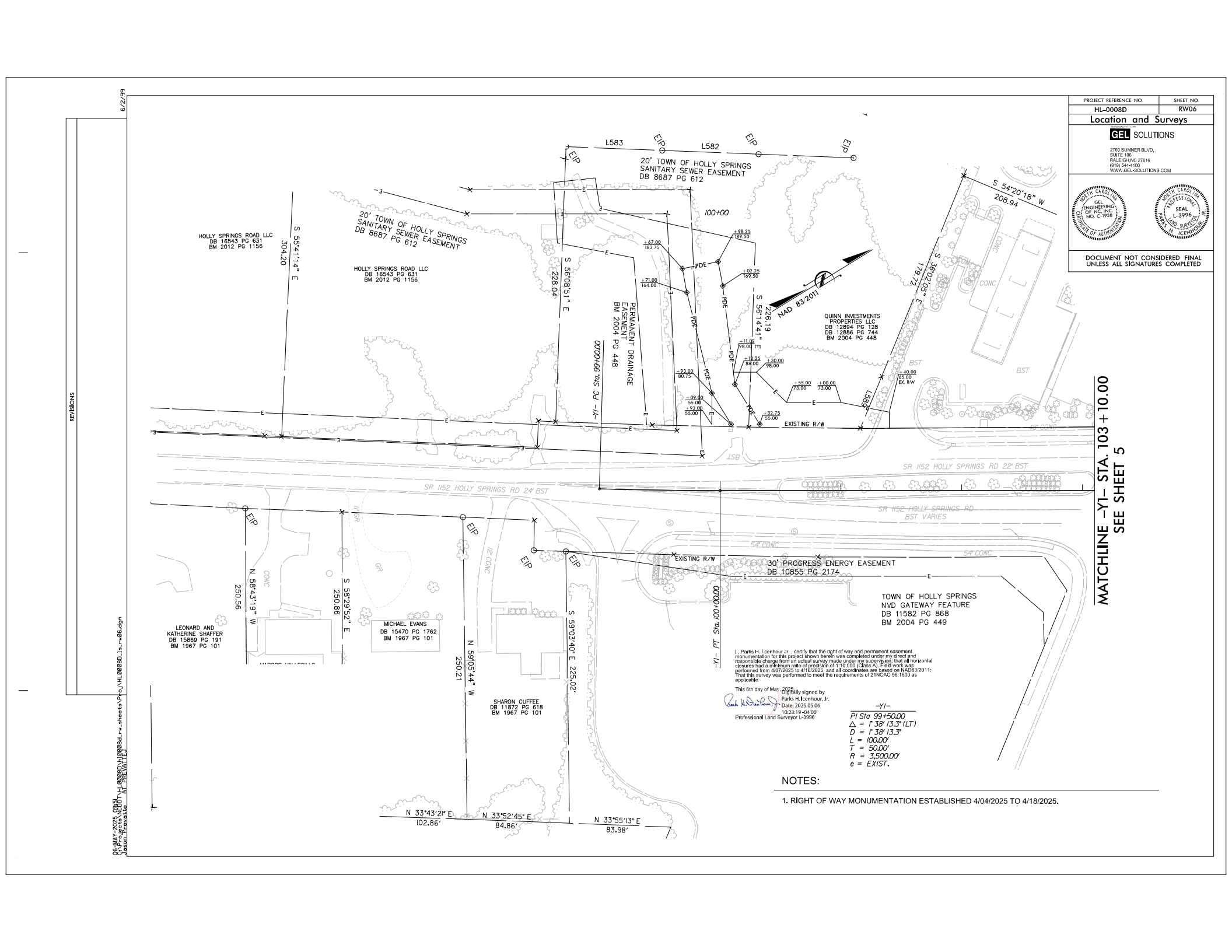
1. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/07/2025 TO 4/18/2025.

REVISIONS 6/2/99

07-MAY-2025 08:15
C:\Projects\HL0008D\hl0008d_rw_sheets\hl0008d_ls_rw03e.dgn
Jason Prevatte


PROJECT REFERENCE NO.
HL-0008D
SHEET NO.
RW04
Location and Surveys
GEL SOLUTIONS
an Affiliate of THE GEL GROUP, INC.
2700 SUMNER BLVD.
SUITE 106
RALEIGH, NC 27616
(919) 544-1100
WWW.GELSOLUTIONS.COM
GEL ENGINEERING OF NC, INC. NO. C-1938
SEAL L-3996
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
I, Parks H. Icenhour Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 4/07/2025 to 4/18/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.
This 6th day of May, 2025.
Digitally signed by Parks H. Icenhour, Jr.
Date: 2025.05.06 10:24:04 -04'00'
Professional Land Surveyor L-3996
REVISIONS
6/2/99
MATCHLINE -L- STA. 37+85.00 SEE SHEET 5
NAD 83/2011
JAMES AND EVELYN BREWINGTON DB 3613 PG 948 BM 1967 PG 101
EMMA LEACH DB 1952 PG 661 BM 1967 PG 101
APEX NORTH CAROLINA DB 17872 PG 2468 BM 1967 PG 101
RUBY AND JAMES SIDNEY DB 12108 PG 2082 BM 1967 PG 101
JAMES SIDNEY DB 2940 PG 614 BM 1967 PG 101
JAMES AND ELLA SIDNEY DB 2132 PG 699 BM 1967 PG 101
LEON AND LINDA BAKER DB 2964 PG 711 BM 1967 PG 101
WOODCREEK NEIGHBORHOOD ASSN DB 13338 PG 1672 BM 2008 PG 1398
JENNIFER FAULK AND ANTHONY ARTIS DB 17249 PG 2601 BM 2008 PG 1398
DAVID CARLSON AND ELIZABETH CARLSON DB 17389 PG 2311 BM 2008 PG 1398
GRAHAM RAINES, JR DB 4113 PG 474 BM 1959 PG 167
ASCENT CAPITAL MANAGEMENT LLC DB 18225 PG 2494 BM 1959 PG 167
MARK AND ARLENE MCDONALD DB 8310 PG 265 BM 1967 PG 101
DALE HEMRICK AND STEVEN NORRIS DB 15303 PG 1116 BM 1991 PG 825
GRADY AND DORETHA MCKEY DB 4972 PG 217 BM 1991 PG 825
WAKE ACQUISITIONS LLC DB 11628 PG 548 BM 1967 PG 101
DONALD WINSTON DB 7396 PG 16 BM 1967 PG 101
SR 1301 SUNSET LAKES DR 29' BST
SR 1313 LOCKLEY RD 18' BST
475' ASPHALT
35' TYPE B-225 LANDSCAPE BUFFER BM 2008 PG 1398
20' LANDSCAPE BUFFER BM 2008 PG 1398
50' LANDSCAPE/HARDSCAPE EASEMENT BM 2007 PG 2890
EXISTING R/W
-L- POC Sta.30+16.76= -Y- POT Sta.102+68.74
-L- PC Sta. 29+33.70
-Y- PT Sta. 101+69.37
-L- PT Sta. 33+51.56
L546
L547
L698
L697
S 57° 30' 11.0" W
S 54°36'54" W 257.93
N 54°36'54" E 253.71
S 54°36'54" W 252.08
S 54°36'54" W 250.31
S 33°23'51" E 169.02
N 56°00'37" E 353.71
S 56°00'37" W 244.66
N 54°15'30" E 266.35
S 53°53'14" W 227.13
S 3°46'40" W 226.52
N 54°00'18" E 279.56
S 36° 35' 43.4" E
N 88°32'04" W 33.15
N 01°53'19" E 77.72
S 36°12'09" E 79.31
S 36°12'09" E 80.14
-L-
PI Sta 31+42.74
Δ = 4° 36' 15.1" (LT)
D = 1° 06' 06.6"
L = 417.86'
T = 209.04'
R = 5,200.00'
e = NC
DS = 40 MPH
-Y-
PI Sta 100+85.04
Δ = 12° 51' 10.7" (LT)
D = 7° 35' 19.8"
L = 169.37'
T = 85.04'
R = 755.00'
e = EXIST.
+14.95 186'
+91.62 37'
+48.08 31'
+86.28 23'
+74.09 24'
+54.23 27'
R/W TO EIP 3.44'
R/W TO EIP 1.42'
R/W TO EIP 6.48'
R/W TO EIP 5.94'
R/W TO EIP 2.48'
NOTES:
1. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/04/2025 TO 4/18/2025.
06-MAY-2025 09:44
C:\Projects\NC101_HL0008D\hl0008d_rw_sheets\Proj\HL0008D_1s_rw04.dgn
Jason Frevaste AT PREVATTE


I, Parks H. Icenhour Jr. , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 4/07/2025 to 4/18/2025, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.
This 6th day of May, 2025
Digitally signed by Parks H. Icenhour, Jr.
Date: 2025.05.06 10:23:40 -04'00'
Professional Land Surveyor L-3996
PROJECT REFERENCE NO. HL-0008D
SHEET NO. RW05
Location and Surveys
GEL SOLUTIONS
an Affiliate of THE GEL GROUP, INC.
2700 SUMNER BLVD, SUITE 100
RALEIGH, NC 27616
(919) 544-1100
WWW.GEL-SOLUTIONS.COM
GEL ENGINEERING OF NC, INC. NO. C-1938
SEAL L-3996 ICENHOUR, JR.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
REVISIONS
6/2/99
MATCHLINE -L- STA. 37+85.00 SEE SHEET 4
MATCHLINE -Y1- STA. 103+10.00 SEE SHEET 6
MICHAEL AND BRENDA JACKSON DB 4222 PG 443 BM 1967 PG 101
TRIVENI SANGAM LLC DB 17214 PG 914 BM 1967 PG 101
20' STORM DRAIN EASEMENT BM 2011 PG 109
AMERICAN PROPERTIES HOLDINGS LLC DB 11189 PG 1527 BM 2011 PG 109
PARMINDER AND PARDEEP SANDHAR DB 16338 PG 908 BM 1967 PG 101 BM 2004 PG 446
VICTOR ERENBERG TRUSTEE DB 17203 PG 944 BM 2003 PG 666 BM 2004 PG 446
30' WIDE CROSS-ACCESS EASEMENT BM 2003 PG 666
VARIABLE WIDTH TOWN OF HOLLY SPRINGS NVD GATEWAY FEATURE BM 2003 PG 666
MICHAEL EDWARDS SUPREME CAR WASH INC DB 17313 PG 113 BM 2009 PG 941
20' PRIVATE DRAINAGE EASEMENT BM 2009 PG 941
20' HOLLY SPRINGS UTILITY EASEMENT BM 2009 PG 941
SUNHOLLY LLC DB 9914 PG 1904 BM 2004 PG 448
SANITARY SEWER EASEMENT BM 2004 PG 447
JOYCE WILLIAMS DB 8748 PG 564 BM 2004 PG 447
BRISTA LLC DB 15173 PG 1668 BM 1967 PG 101 BM 2004 PG 447
DONALD WINSTON DB 7396 PG 16 BM 1967 PG 101
-L- PC Sta. 38+28.41
-L- PT Sta. 40+07.69
-L- PI Sta 39+18.06
Δ = 0° 30' 49.0" (RT)
D = 0° 17' 11.3"
L = 179.28'
T = 89.64'
R = 20,000.00'
e = NC
DS = 40 MPH
-L- POT Sta. 46+28.39= -Y1- POT Sta.103+75.06
NAD 83/2011
SR 1130 HOLLY SPRINGS RD #4 BST
SR 1130 SUNSET LAKES DR 22' BST
SR 1130 SUNSET LAKES DR 33' BST
EISENHOWER DR 30' BST
S 36° 04' 54.5" E
S 36° 35' 43.4" E
N 31° 42' 17.4" E
S 53°53'09" W 228.14
N 53°52'24" E 207.57
N 53°59'54" E 206.44
N 53°58'49" E 219.69
N 53°55'55" E 220.30
N 53°58'50" E 209.23
S 36°12'09" E 120.00
S 36°12'09" E 40.00
N 36°02'49" W 176.59'
S 54°20'18" W 208.94
S 36°02'05" E 179.72
60.00'
R/W TO EIP 0.92'
R/W TO EIP 1.00'
EXISTING R/W
NOTES:
1. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/04/2025 TO 4/18/2025.
06-MAY-2025 09:16
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Jason Frevaldo
ATTRIBUTES



PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	RW06

Location and Surveys

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NORTH CAROLINA BOARD OF ENGINEERING OF NC, INC. CERTIFICATE OF AUTHORIZATION NO. C-1938

NORTH CAROLINA PROFESSIONAL SEAL L-3996 LAND SURVEYOR PARKS H. ICENHOUR

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Parks H. Icenhour Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 4/07/2025 to 4/18/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 6th day of May, 2025.

Digitally signed by Parks H.Icenhour, Jr.
Date: 2025.05.06 10:23:19 -04'00'

Professional Land Surveyor L-3996

NOTES:

1. RIGHT OF WAY MONUMENTATION ESTABLISHED 4/04/2025 TO 4/18/2025.

REVISIONS

6/2/99

06-MAY-2025 09:51
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Jason Frevatte
AT PREVATTE

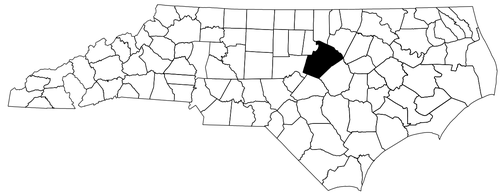
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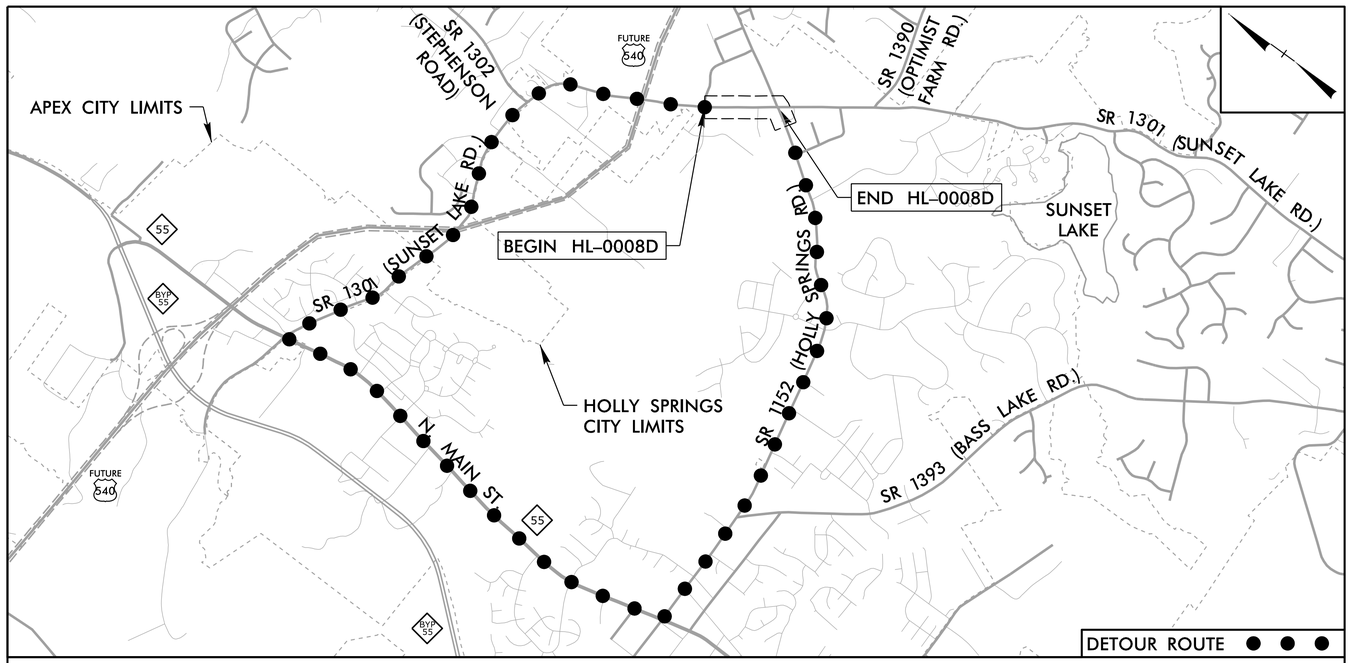
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAKE COUNTY

LOCATION: SR 1301 (SUNSET LAKE ROAD) BETWEEN SR 1152 (HOLLY SPRINGS ROAD) AND SR 3973 (LOCKLEY ROAD)





VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-2A-2B	GENERAL NOTES
TMP-3A-3B	TRANSPORTATION MANAGEMENT STRATEGIES AND PHASING PLAN
TMP-4	DETOUR SIGN DESIGN
TMP-5	TEMPORARY TRAFFIC CONTROL PHASE I - STEP A
TMP-6-7	TEMPORARY TRAFFIC CONTROL PHASE I - STEP B
TMP-8	TEMPORARY TRAFFIC CONTROL PHASE II - STEP A
TMP-9	TEMPORARY TRAFFIC CONTROL PHASE II - STEP B
TMP-10	TEMPORARY TRAFFIC CONTROL PHASE II - STEP C
TMP-11	TEMPORARY TRAFFIC CONTROL PHASE III - STEP A
TMP-12	TEMPORARY TRAFFIC CONTROL PHASE III - STEP B
TMP-13	TEMPORARY TRAFFIC CONTROL PHASE III - STEP C
TMP-14	TEMPORARY TRAFFIC CONTROL PHASE III - STEP D
TMP-15-17	TEMPORARY TRAFFIC CONTROL PHASE IV
TMP-18	PHASE I - STEP B DETOUR ROUTE

SHEET NO.
TMP-1

CONTRACT: DE00409 TIP PROJECT: HL-0008D



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

PLANS PREPARED BY:

ZACHARY M. ESPOSITO, PE, TCDS
PROJECT ENGINEER

MIKAYLA M. LINDSEY, PE
PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

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PHONE: 919-872-5115 | www.drmp.com | NC License No. F-1524

APPROVED: Signed by: Zachary M Esposito 564TDD760484E8...

DATE: 7/7/2026

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M ESPOSITO

Docusign Envelope ID: C935449C-AA3B-44F6-AFA1-EE3E10EF971D

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES
1150.01	FLAGGERS
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-1A

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LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- REMOVAL
- WEDGING

SIGNALS

EXISTING PROPOSED TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN
- PORTABLE CONCRETE BARRIER (PCB)

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

P1	WHITE EDGE LINE	PAINT (4")	LF
P2	WHITE SOLID LANE LINE	PAINT (4")	LF
P3	10 FT. WHITE SKIP	PAINT (4")	LF
P4	3 FT. - 9 FT./SP WHITE MINISKIP	PAINT (4")	LF
P5	2 FT. - 6 FT./SP WHITE MINISKIP	PAINT (4")	LF
P13	YELLOW DOUBLE CENTER	PAINT (4")	LF
P42	YELLOW DIAGONAL	PAINT (8")	LF

APPROVED: Signed by: Zachary M Esposito 5647DD760484E8...
DATE: 2/5/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

ROADWAY STANDARD DRAWINGS & LEGEND

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GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
SUNSET LAKE ROAD	MONDAY-FRIDAY 6AM-9AM AND 4PM-7PM
HOLLY SPRINGS ROAD	MONDAY-FRIDAY 6AM-9AM AND 4PM-7PM

SEE ICT'S FOR MORE DETAILS ON PHASE I - STEP B WEEKEND CONSTRUCTION TIME RESTRICTIONS.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
SUNSET LAKE ROAD
HOLLY SPRINGS ROAD

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

   WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON SUNSET LAKE ROAD AND/OR HOLLY SPRINGS ROAD.

PAVEMENT EDGE DROP OFF REQUIREMENTS

J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

   BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

   BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

   BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

APPROVED: Signed by: Zachary M Esposito 5647DD76D4884E8...
DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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GENERAL NOTES

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RALEIGH, NC 27609
(919) 872-5115

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GENERAL NOTES

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

T) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
SUNSET LAKE ROAD	PAINT	NONE
HOLLY SPRINGS ROAD	PAINT	NONE

U) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATIONOF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

W) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

GENERAL NOTES (CONT.)

MISCELLANEOUS

X) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

Y) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

Z) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASHPALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

Signed by:
APPROVED: Zachary M. Esposito
5647DD76D4884E8...
DATE: 2/5/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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GENERAL NOTES

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TRANSPORTATION MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

TRAFFIC MANAGEMENT STRATEGIES:

- FULL ROADWAY CLOSURES
- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- ONE-LANE, TWO WAY OPERATION (FLAGGING)
- WEEKEND WORK
- WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
- OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:

- INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

GENERAL TRAFFIC CONTROL NOTES

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES (RSD 1101.01). FIELD VERIFY LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES, SCHOOLS, BUS STOPS, EMERGENCY SERVICES, AND BUSINESSES DURING THE LIFE OF THE CONTRACT, PRIOR TO INCORPORATION, OBTAIN WRITTEN APPROVAL FROM THE ENGINEER ON METHOD TO MAINTAIN ACCESS.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE.

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO EXISTING AND/OR TEMPORARY TRAFFIC PATTERN UPON ACTIVITIES COMPLETION, UNLESS OTHERWISE NOTED IN THE PHASING PLANS.

WHEN PHASING STATES TO USE LANE CLOSURES, REFER TO THE FOLLOWING FOR ALL EXISTING AND PROPOSED ROADS:

-ALL TWO-LANE/TWO-WAY FACILITIES SEE RSD 1101.02 SHEET 1 OF 19
-ALL TWO-LANE/TWO-WAY FACILITIES WITH TWLTL SEE RSD 1101.02 SHEET 2 OF 19
-ALL DIVIDED MULTI-LANE FACILITIES SEE RSD 1101.02 SHEET 3 OF 19

COMPLETE PAVING UP TO, BUT NOT INCLUDING, THE FINAL LAYER OF SURFACE COURSE UNTIL STATED TO PLACE FINAL LAYER IN THE PHASING PLANS.

WHEN WEDGING OVER EXISTING PAVEMENT, WEDGE TO PROPOSED ELEVATION (LESS THE FINAL LAYER OF SURFACE COURSE), OR WEDGE AS NEEDED TO MAINTAIN TRAFFIC. MAINTAIN POSITIVE DRAINAGE AND MAINTAIN A MAXIMUM 0.04 ROLLOVER IN BOTH EXISTING AND/OR TEMPORARY TRAVEL LANES.

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

PHASING PLAN

PHASE I

STEP A (SEE TMP-5):

INSTALL WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, BEGIN ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-Y1- STA. 100+02 +/- TO -Y1- STA. 103+53 +/- (SEE TMP-5)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

STEP B (SEE TMP-6 THRU TMP-7):

ICT NOTE:
CONTRACTOR SHALL COMPLETE THE WORK OF PHASE I - STEP B IN FIFTY-NINE (59) CONSECUTIVE HOURS (FRIDAY 7PM TO MONDAY 6 AM). ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS AND DETOUR SIGNAGE SHALL BE INSTALLED PRIOR TO THE WEEKEND ICT. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES FOR MORE DETAILS.

PRIOR TO WEEKEND ICT AND ROAD CLOSURE, REMOVE AND RESET ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01). CONTRACTOR SHALL INSTALL CMS BOARDS TO NOTIFY TRAFFIC OF UPCOMING ROAD CLOSURE. FURTHERMORE, ENSURE ALL NECESSARY ROAD CLOSURE AND DETOUR SIGNAGE IS INSTALLED FOR -L- SUNSET LAKE ROAD. ONCE INSTALLED, COVER ROAD CLOSURE AND DETOUR SIGNAGE UNTIL SHIFTING INTO PHASE I - STEP B TRAFFIC PATTERN. SEE TMP-20 FOR DETOUR SIGNAGE.

UNCOVER ROAD CLOSURE AND DETOUR SIGNAGE. USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 39+28 +/- TO -L- STA. 41+39 +/- (SEE TMP-6)
-L- STA. 44+00 +/- TO -L- STA. 45+89 +/- (SEE TMP-6)

AT THE COMPLETION OF PHASE I - STEP B, REMOVAL ALL BARRICADES AND SIGNAGE ASSOCIATED WITH DETOUR -L- SUNSET LAKE ROAD AND REOPEN SUNSET LAKE ROAD TO TRAFFIC.

APPROVED: Signed by: Zachary M. Esposito 5647DD76D4884E8...
DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT STRATEGIES AND PHASING PLAN

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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-3B

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PHASING PLAN

PHASE II

STEP A (SEE TMP-8):

USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 35+05 +/- TO -L- STA. 42+33 +/- (SEE TMP-8)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

STEP B (SEE TMP-9):

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 30+44 +/- TO -L- STA. 35+05 +/- (SEE TMP-9)

AT THE END OF EACH WORK DAY, CONTRATOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

STEP C (SEE TMP-10):

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 29+45 +/- TO -L- STA. 29+68 +/- (SEE TMP-10)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

PHASE III

STEP A (SEE TMP-11):

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 42+33 +/- TO -L- STA. 44+97 +/- (SEE TMP-11)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

STEP B (SEE TMP-12):

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 36+50 +/- TO -L- STA. 42+03 +/- (SEE TMP-12)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

STEP C (SEE TMP-13):

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 30+81 +/- TO -L- STA. 36+50 +/- (SEE TMP-13)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

STEP D (SEE TMP-14):

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONTINUE ROADWAY IMPROVEMENTS (INCLUDING DRAINAGE) TO THE FOLLOWING STATIONS:

-L- STA. 30+27 +/- TO -L- STA. 30+81 +/- (SEE TMP-14)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

PHASE IV

STEP A (SEE TMP-15 THRU TMP-17):

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01). CONTRACTOR MAY INSTALL CMS BOARDS TO NOTIFY TRAFFIC OF UPCOMING ROAD CLOSURE.

USING LANE CLOSURES AND FLAGGERS AS NEEDED, COMPLETE ROADWAY IMPROVEMENTS TO THE FOLLOWING STATIONS:

-L- STA. 30+68 +/- TO -L- STA. 41+50 +/- (SEE TMP-15 THRU TMP-17)

AT THE END OF EACH WORK DAY, CONTRACTOR TO REMOVE TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC FLOW.

PHASE V

STEP A:

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES AND FLAGGERS AS NEEDED, COMPLETE REMAINING PAVING, INCLUDING FINAL SURFACE COURSE AND INSTALL FINAL PAVEMENT MARKINGS AND MARKERS.

REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC OPERATION.

APPROVED: Signed by: Zachary M Esposito 5647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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TRANSPORTATION MANAGEMENT STRATEGIES AND PHASING PLAN

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HL-0008D	TMP-4

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SIGN NUMBER: SD-1
TYPE: D
QUANTITY: 15

SIGN WIDTH: 3′-6″
HEIGHT: 2′-6″
TOTAL AREA: 8.75 Sq.Ft.

BORDER TYPE:
RADII: 1.5″

NO. Z BARS:
LENGTH:

BACKG COLOR: Flourescent Orange
COPY COLOR: Black

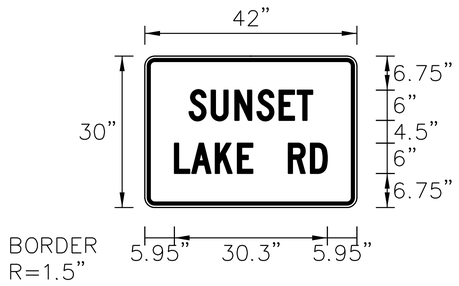
SYMBOL	X	Y	WID	HT

MAT′L: 0.125″ (3.2 mm) ALUMINUM

DESIGN BY: MML
PROJECT ID: HL-0008D

CHECKED BY: ZME
LOCATION:

May 20, 2024
DIV: 5



Spacing Factor is 1 unless specified otherwise

USE NOTES:

1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
2. Background shall be NC Grade B reflective sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner

																										Series/Size Text Length
	S	U	N	S	E	T																				C 2000
	8.76	13.14	17.82	22.2	26.58	30.18																				24.48
	L	A	K	E		R	D																			C 2000
	5.85	9.27	13.95	18.33	21.75	28.41	32.79																			30.3

FILENAME: HL-0008D_TC_SIGN DESIGN

NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: Signed by: Zachary M. Esposito 5647DD760484E8...
DATE: 2/5/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

DETOUR SIGN DESIGN

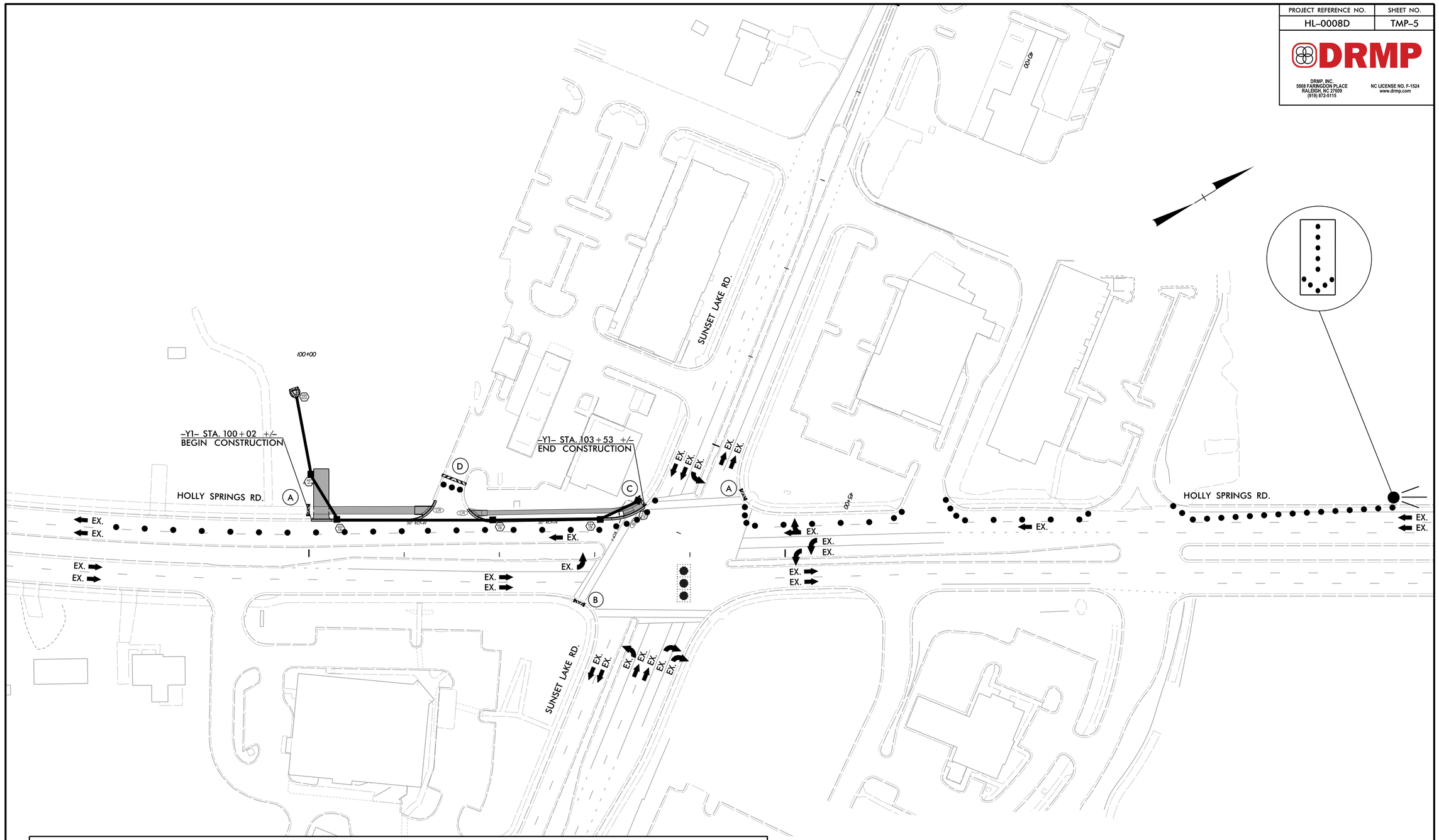
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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-5

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SIDEWALK CLOSED

2" MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

A

SIDEWALK CLOSED
CROSS HERE

2" MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

B

SIDEWALK CLOSED
CROSS HERE

2" MAX

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

C

R11-2
48" x 30"

ROAD CLOSED

TYPE III BARRICADE

D

APPROVED: Signed by: Zachary M. Esposito 5647DD7E04884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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TEMPORARY TRAFFIC CONTROL PHASE I – STEP A

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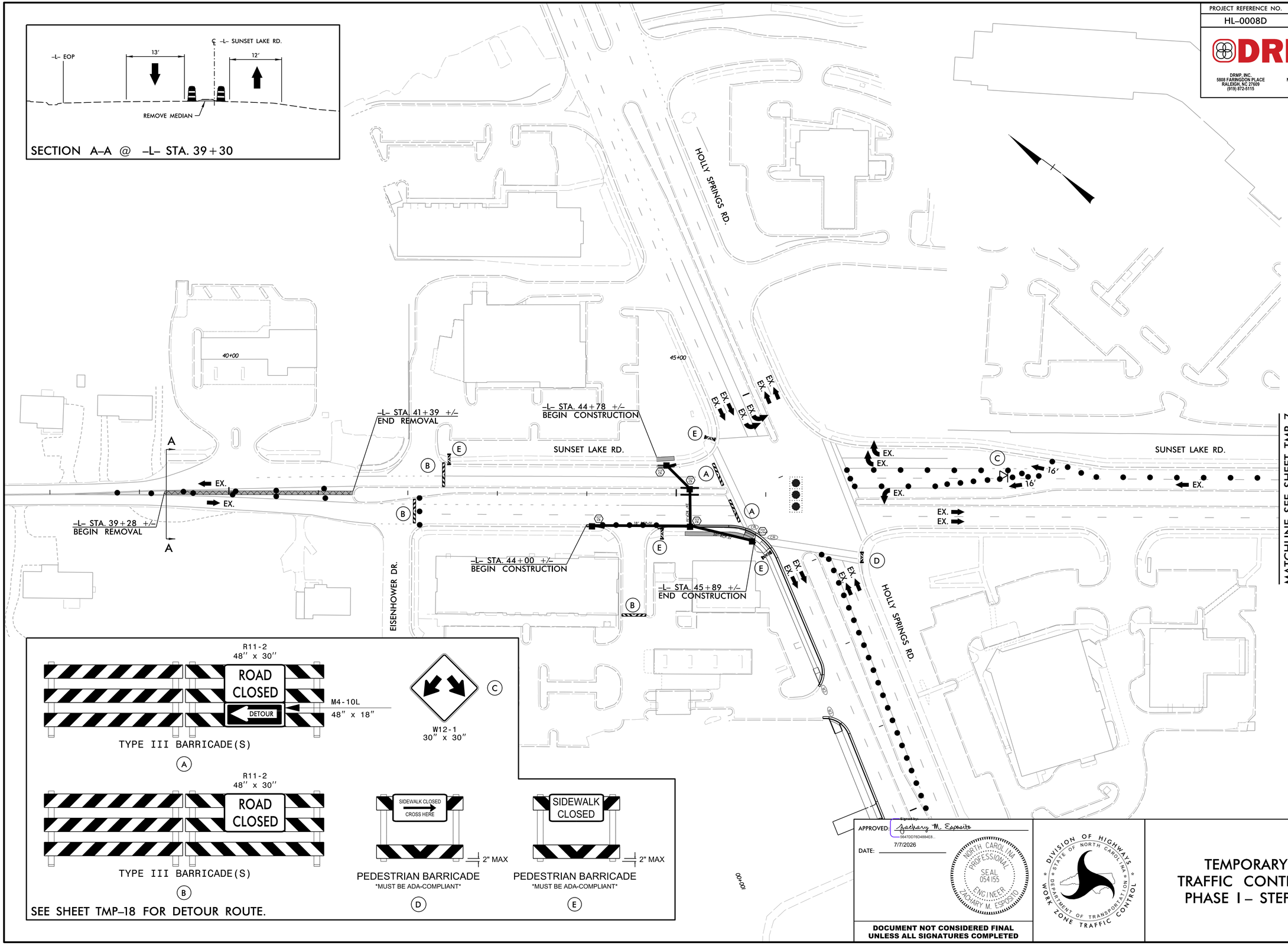
PROJECT REFERENCE NO.	SHEET NO.
HL–0008D	TMP–6

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SECTION A–A @ –L– STA. 39+30



TYPE III BARRICADE(S)

(A)

TYPE III BARRICADE(S)

(B)

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

(D)

PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT

(E)

SEE SHEET TMP–18 FOR DETOUR ROUTE.

APPROVED: Signed by: Zachary M. Esposito 5647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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TEMPORARY TRAFFIC CONTROL PHASE I – STEP B

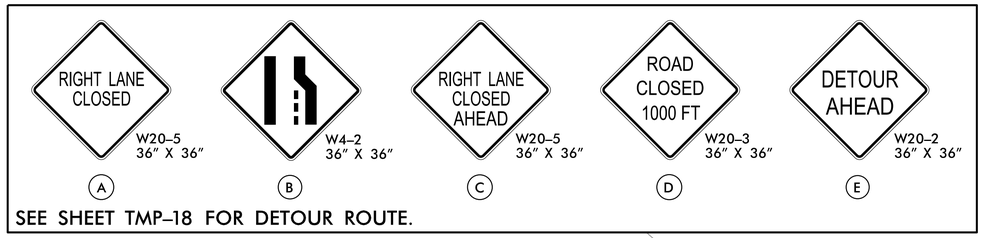
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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-7

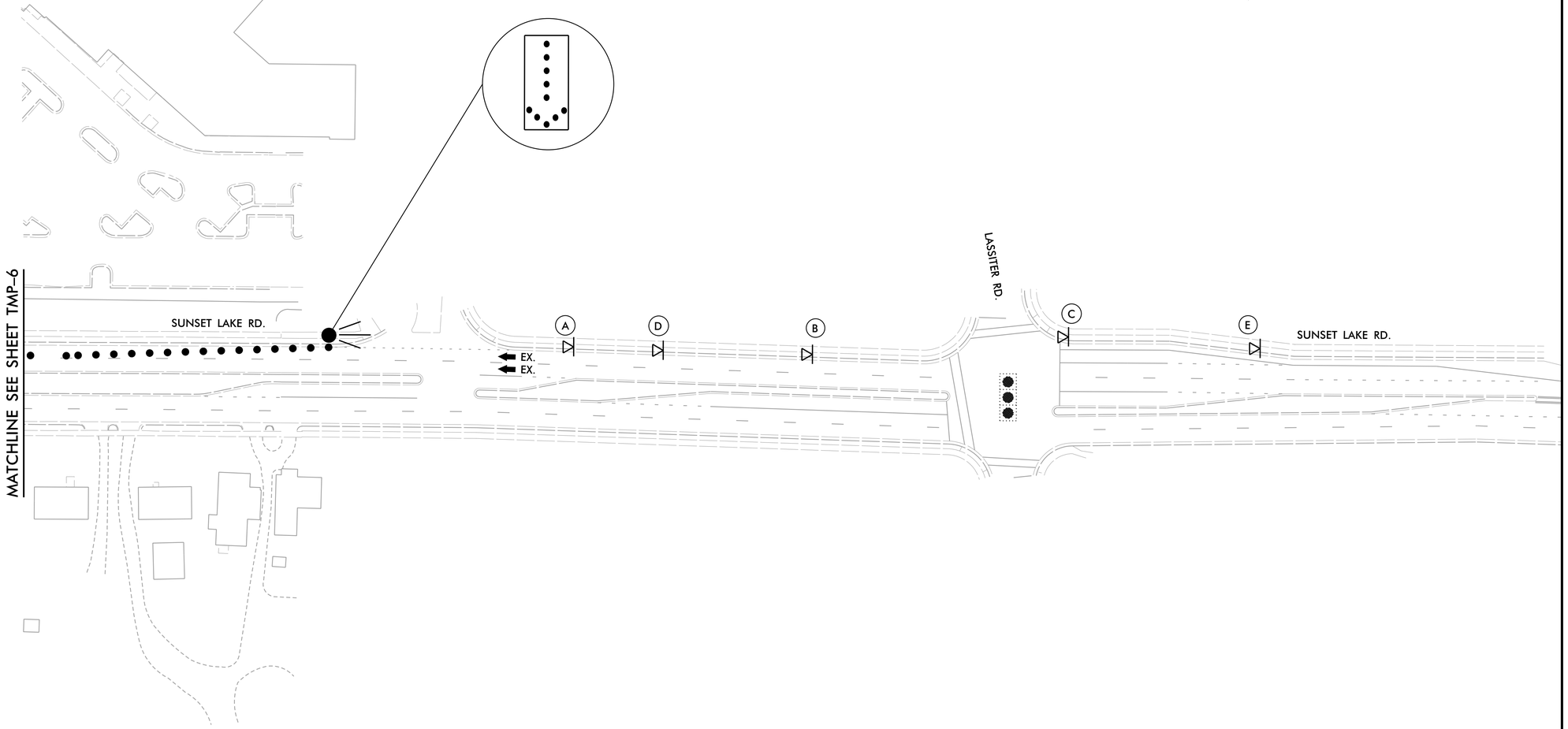
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SEE SHEET TMP-18 FOR DETOUR ROUTE.



APPROVED: Signed by: Zachary M. Esposito 5647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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TEMPORARY TRAFFIC CONTROL PHASE I – STEP B

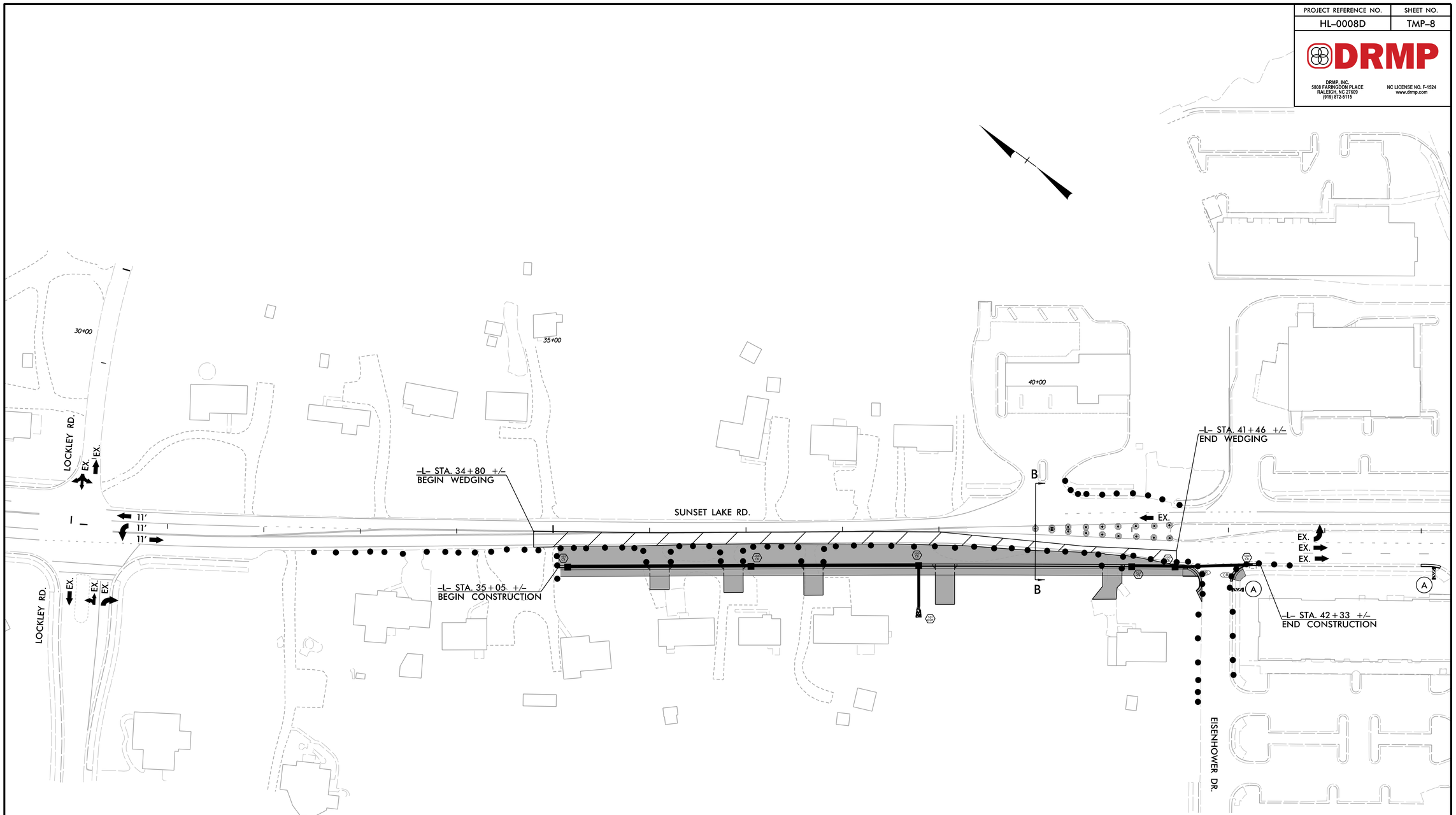
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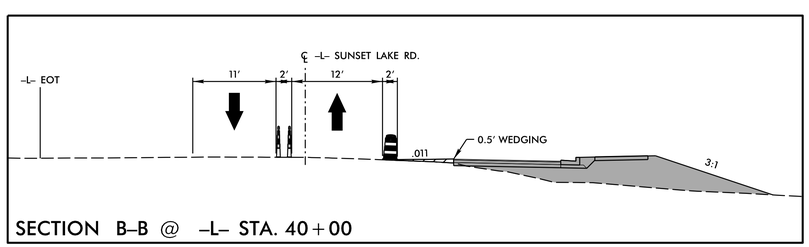
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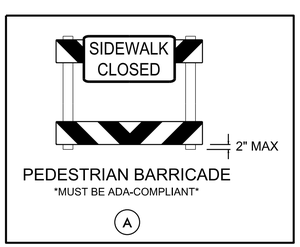
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SECTION B–B @ –L– STA. 40+00



PEDESTRIAN BARRICADE
"MUST BE ADA-COMPLIANT"
(A)

APPROVED: Signed by: Zachary M. Esposito 0647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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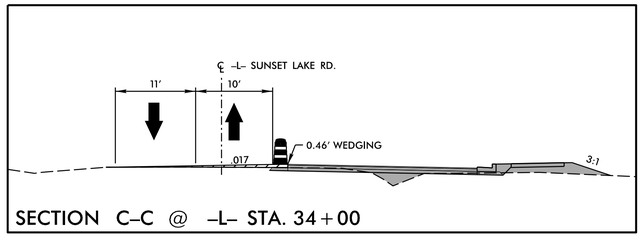
TEMPORARY TRAFFIC CONTROL PHASE II – STEP A

Docusign Envelope ID: 15FC029C-9128-8055-80BF-C8250272C17A

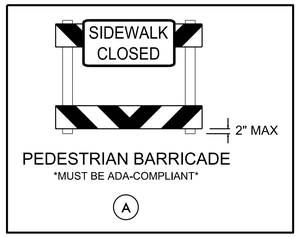
PROJECT REFERENCE NO.	SHEET NO.
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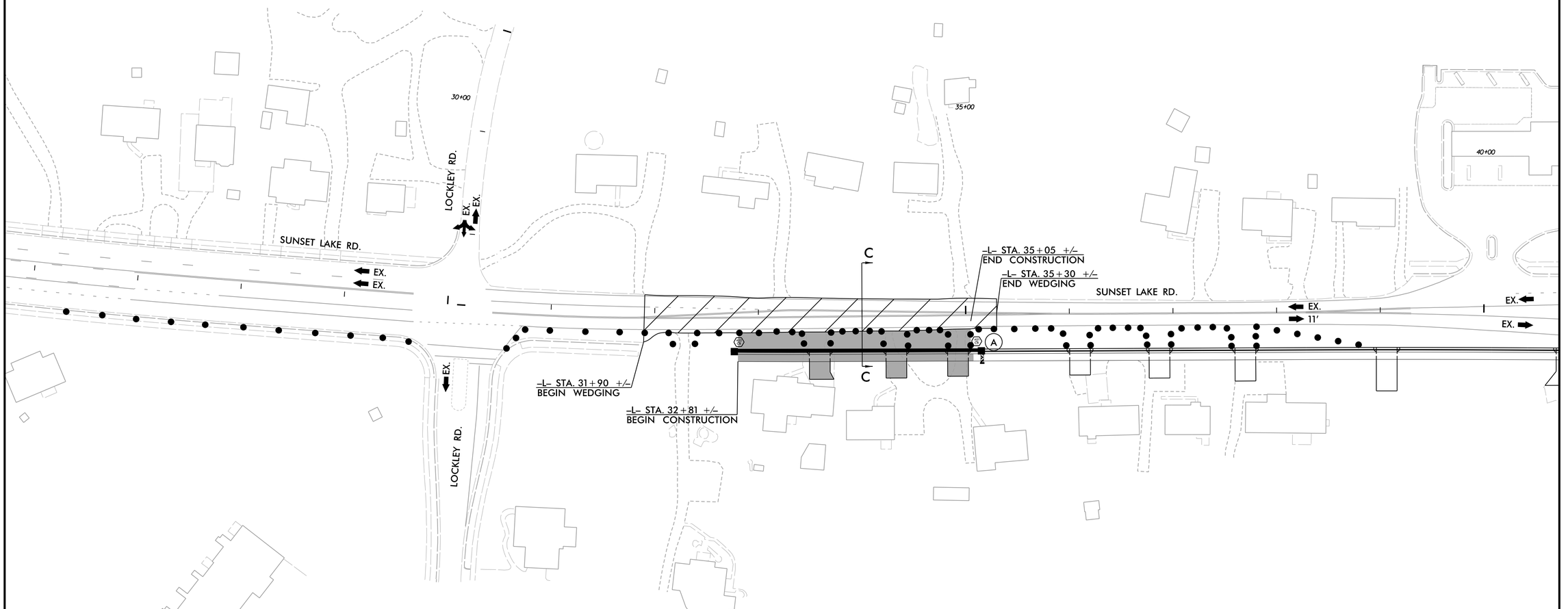
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SECTION C–C @ –L– STA. 34+00



PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT
(A)



APPROVED: Signed by: Zachary M. Esposito 5647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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DIVISION OF HIGHWAYS • STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION • WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL PHASE II – STEP B

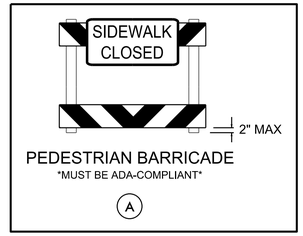
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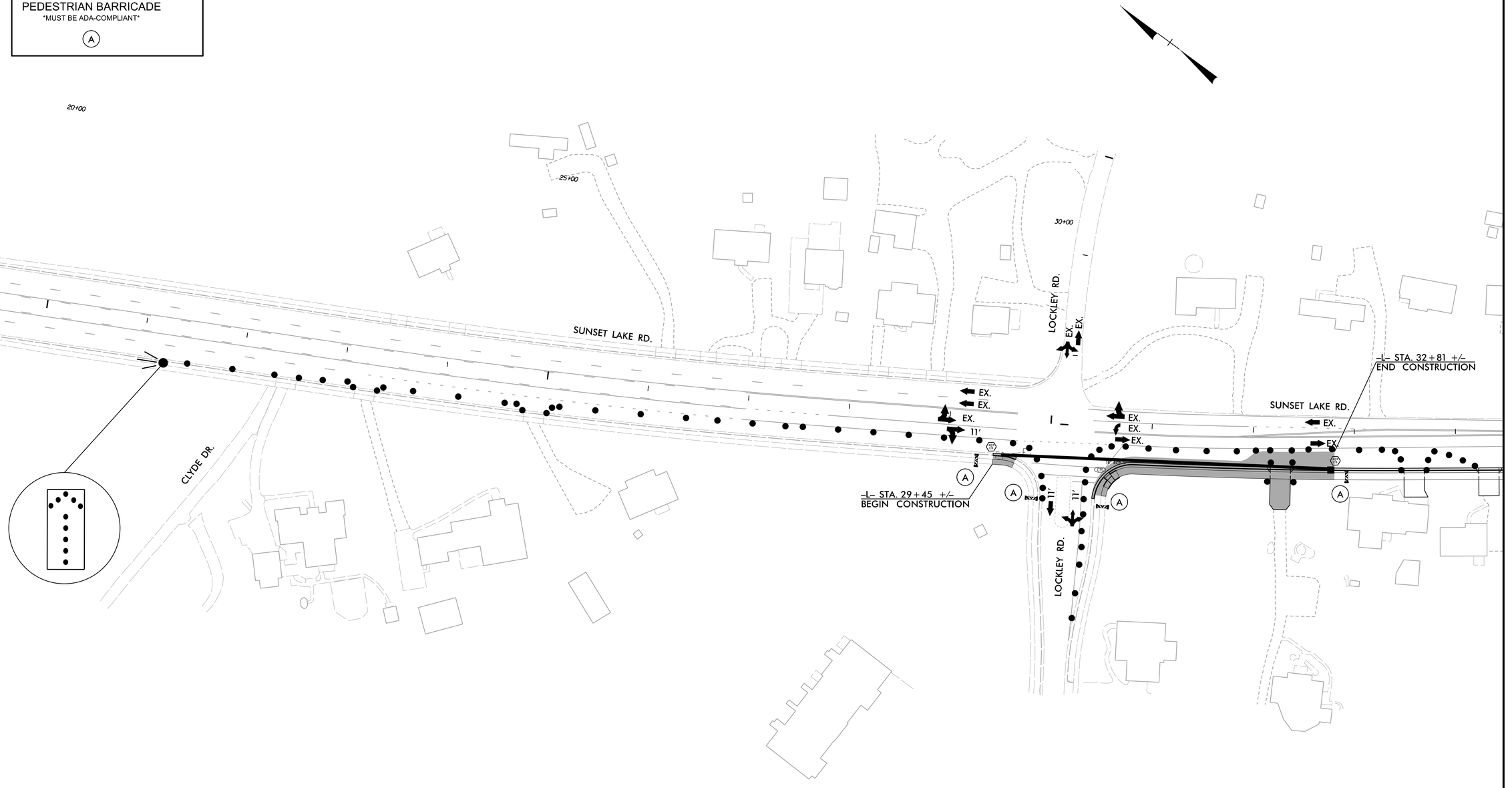
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HL-0008D	TMP-10

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DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL PHASE II – STEP C

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HL-0008D	TMP-11

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HOLLY SPRINGS RD.

45+00

-L- STA. 42+33 +/-
BEGIN CONSTRUCTION

-L- STA. 44+97 +/-
END CONSTRUCTION

SUNSET LAKE RD.

EISENHOWER DR.

EX.

16'

00+00

W12-1
48" X 48"
(A)

SIDEWALK CLOSED AHEAD
CROSS HERE
2" MAX
PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT
(B)

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE
(C)

APPROVED: Signed by: Zachary M. Esposito
5647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL PHASE III – STEP A

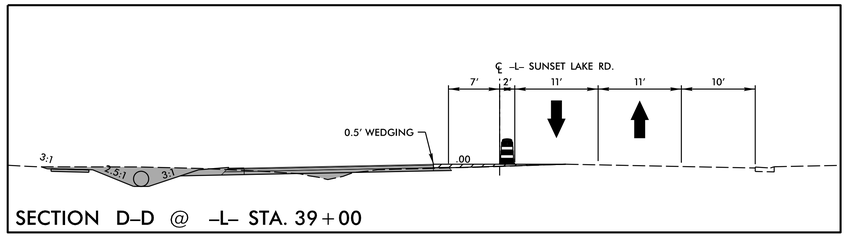
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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-12

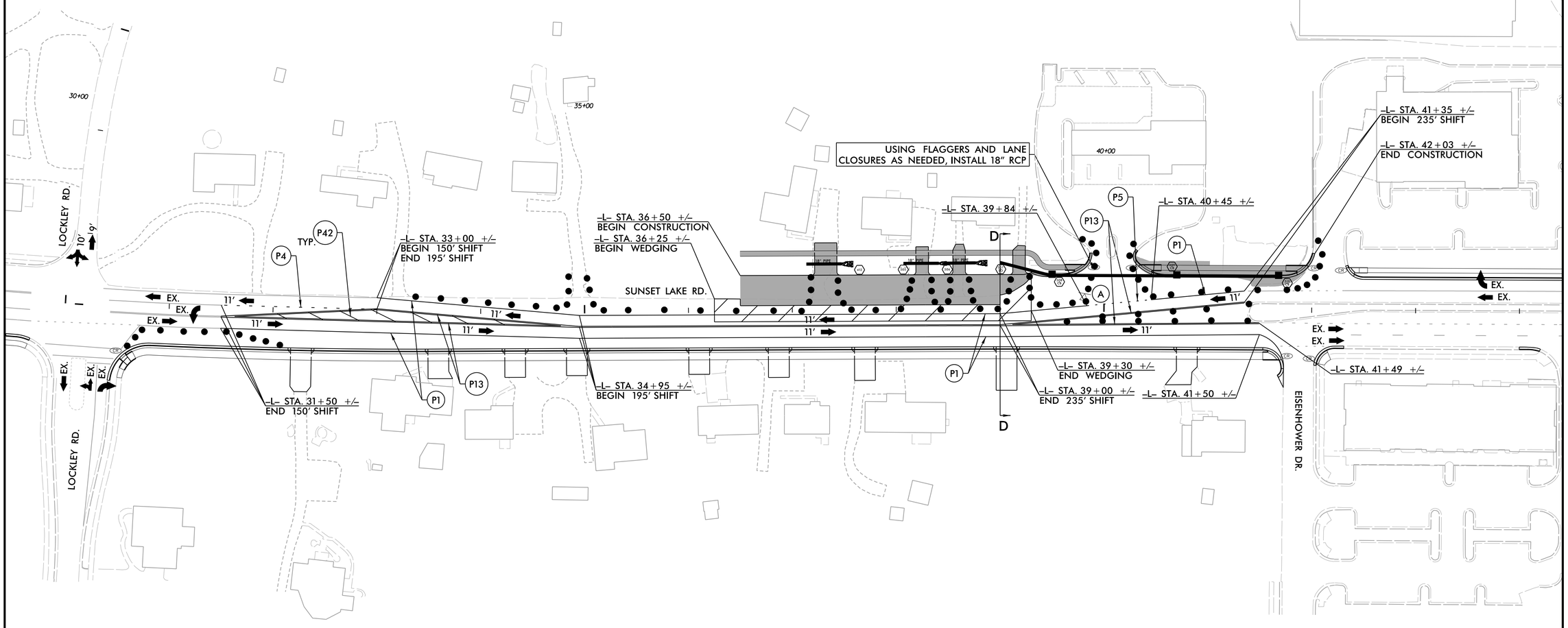
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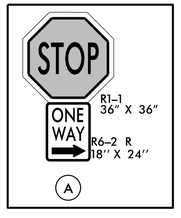
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SECTION D–D @ -L- STA. 39+00





APPROVED: Signed by: Zachary M. Esposito 5647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL PHASE III – STEP B

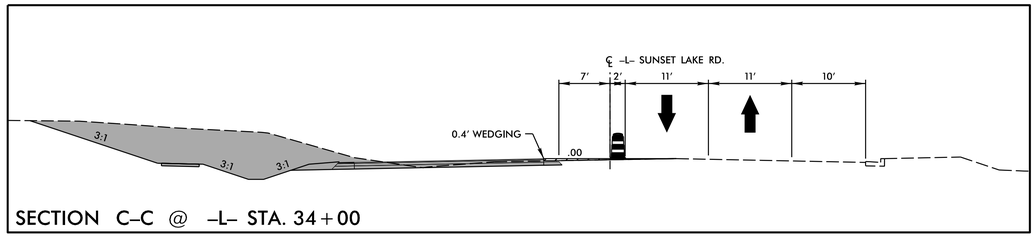
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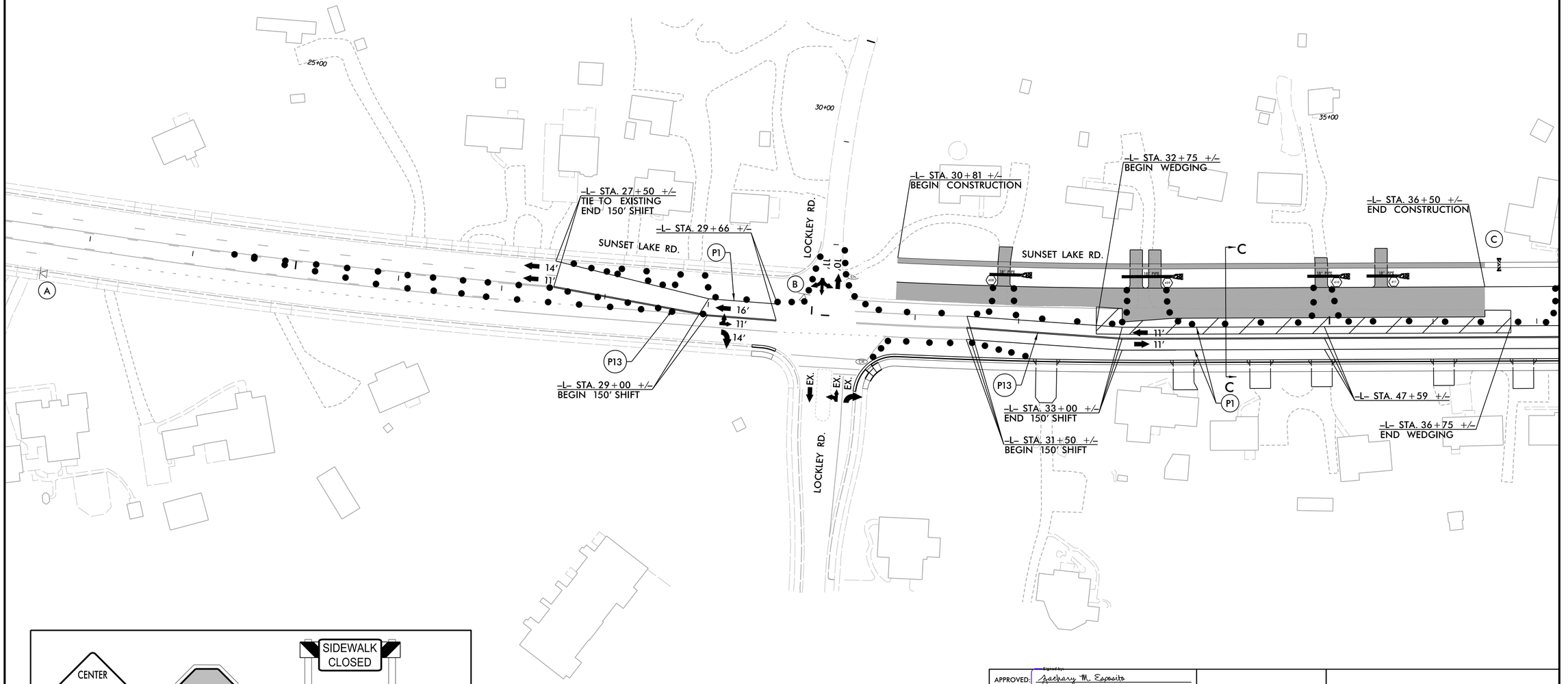
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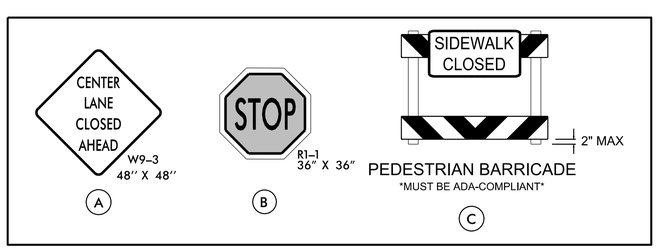
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DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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TEMPORARY TRAFFIC CONTROL PHASE III – STEP C

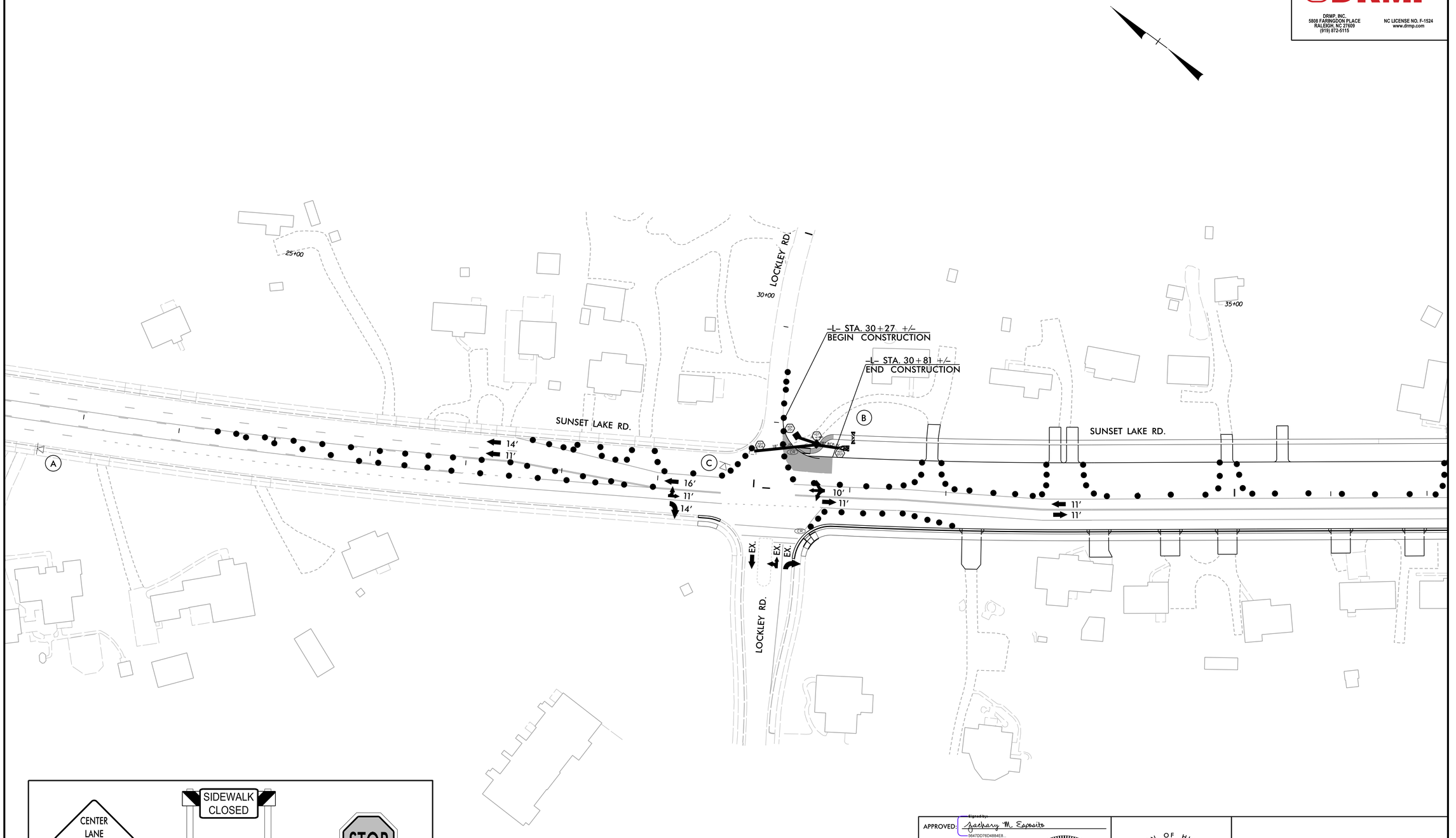
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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-14

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CENTER LANE CLOSED AHEAD
W9-3
48″ X 48″
A

SIDEWALK CLOSED
2" MAX
PEDESTRIAN BARRICADE
MUST BE ADA-COMPLIANT
B

STOP
R1-1
36″ X 36″
C

APPROVED: Signed by: Zachary M. Esposito
5647DD76D4884E8...
DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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TEMPORARY TRAFFIC CONTROL PHASE III – STEP D

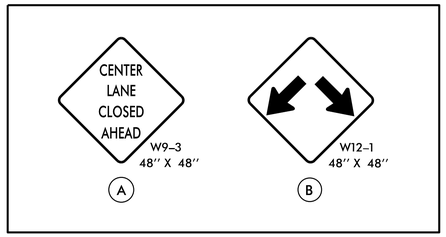
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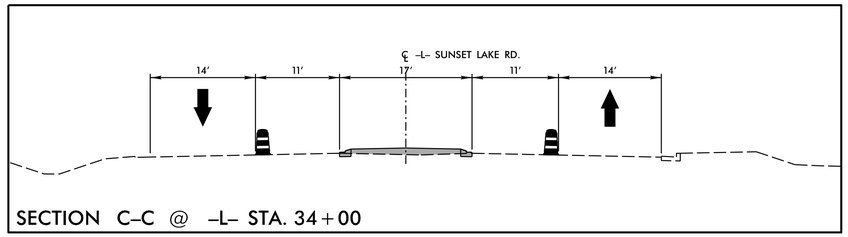
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HL-0008D	TMP-15

DRMP

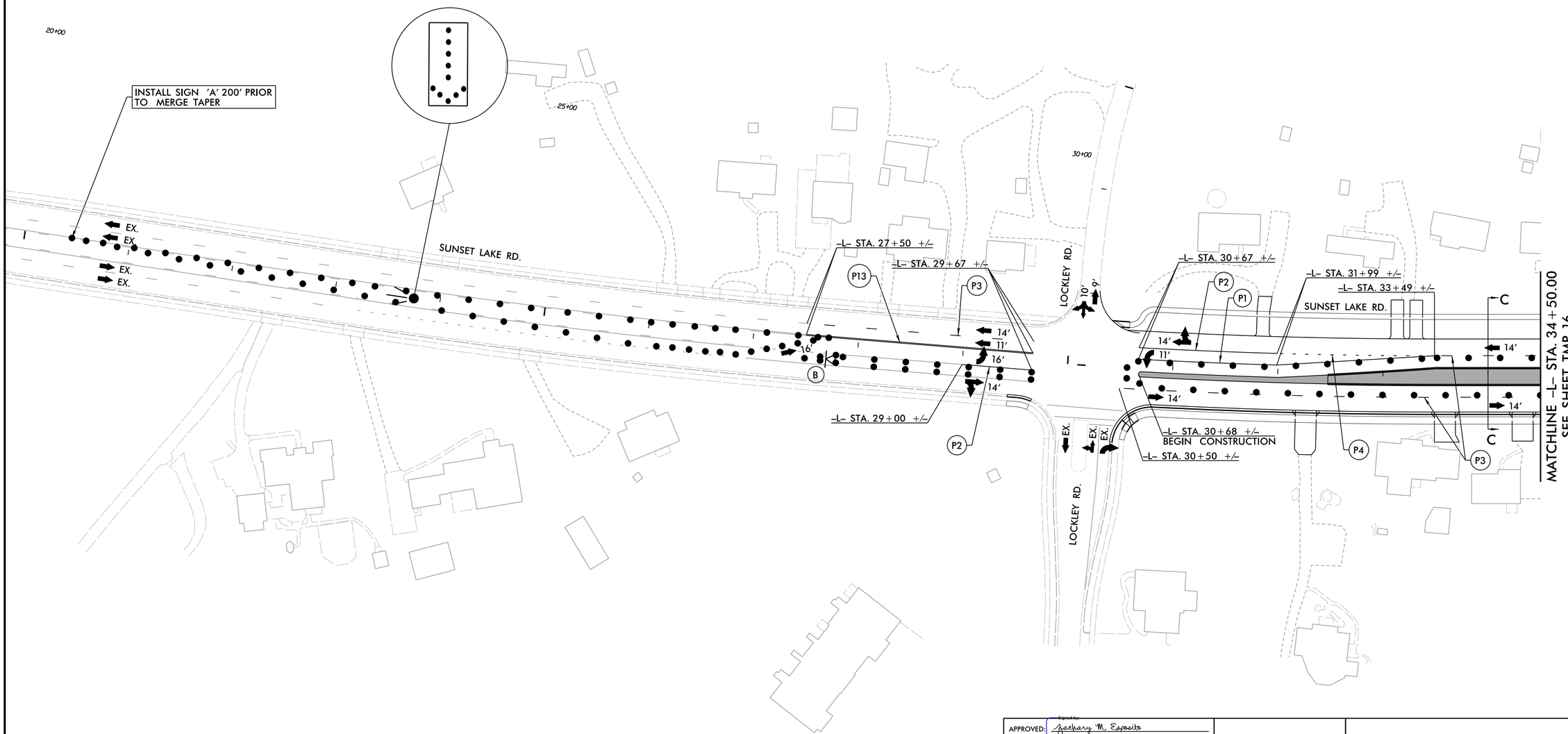
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DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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TEMPORARY TRAFFIC CONTROL PHASE IV

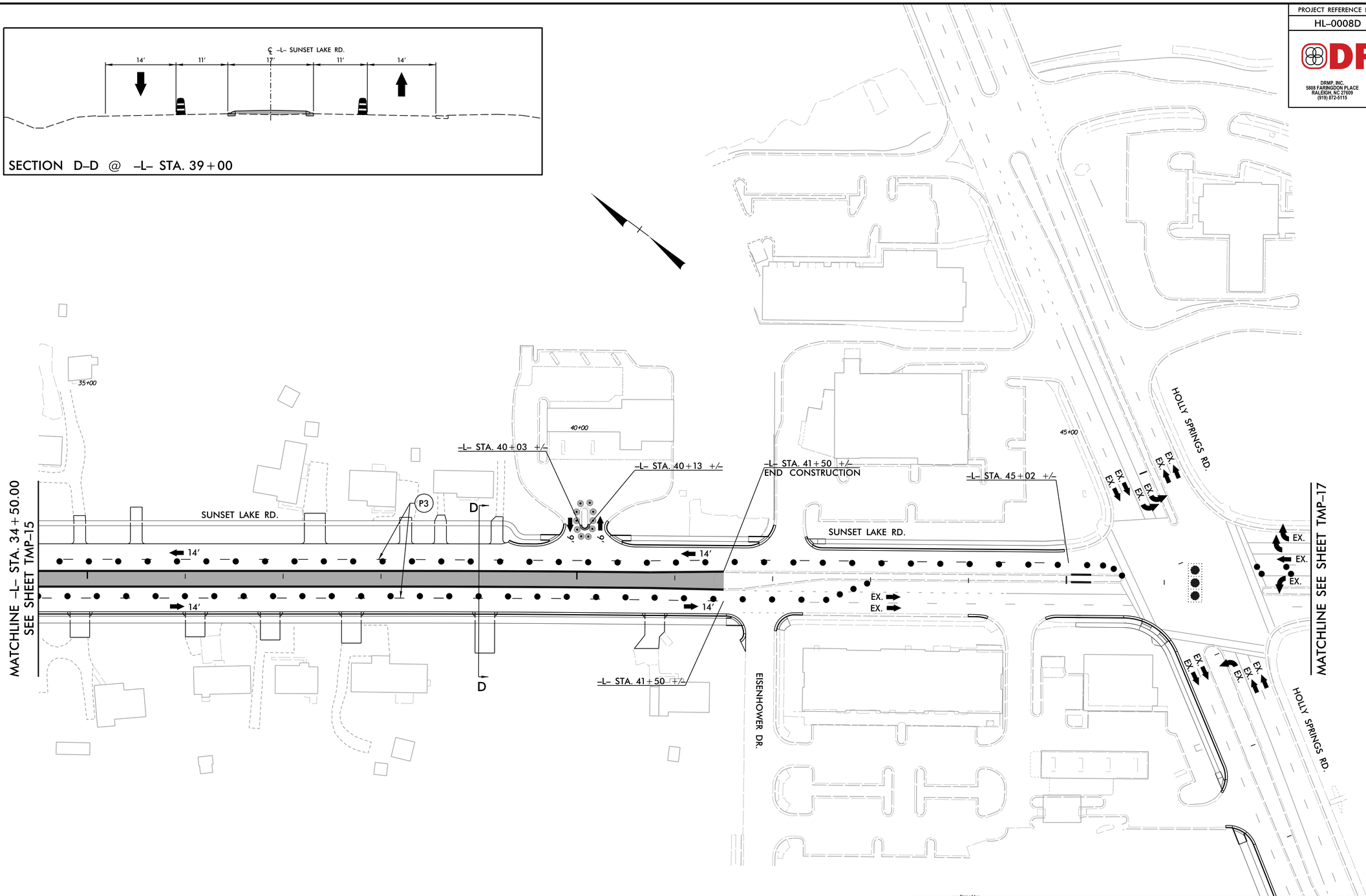
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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-16

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0647DD76D4884E8...

DATE: 7/7/2026

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TEMPORARY TRAFFIC CONTROL PHASE IV

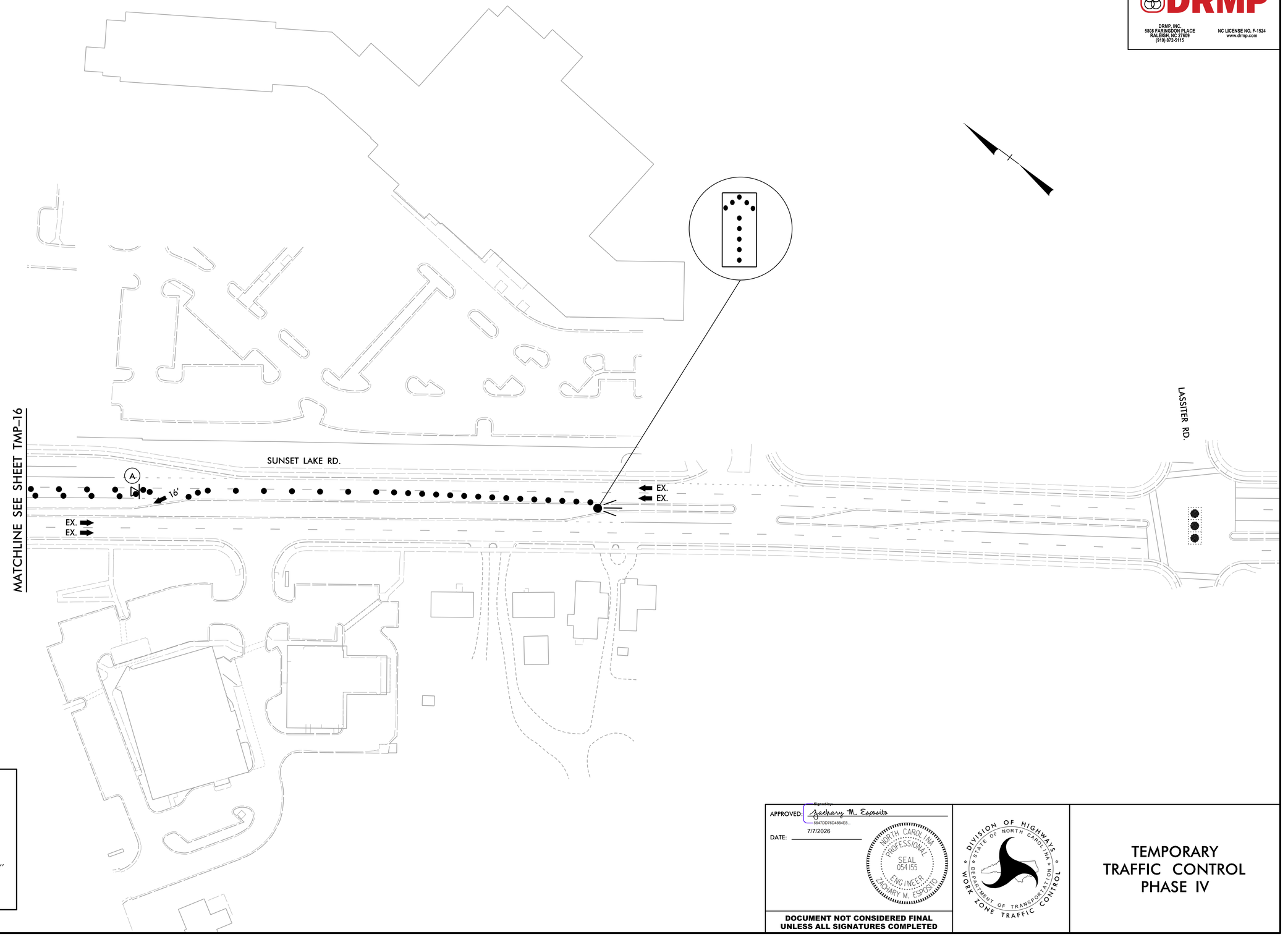
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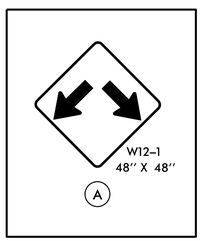
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HL-0008D	TMP-17

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APPROVED: Signed by: Zachary M. Esposito 5647DD76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

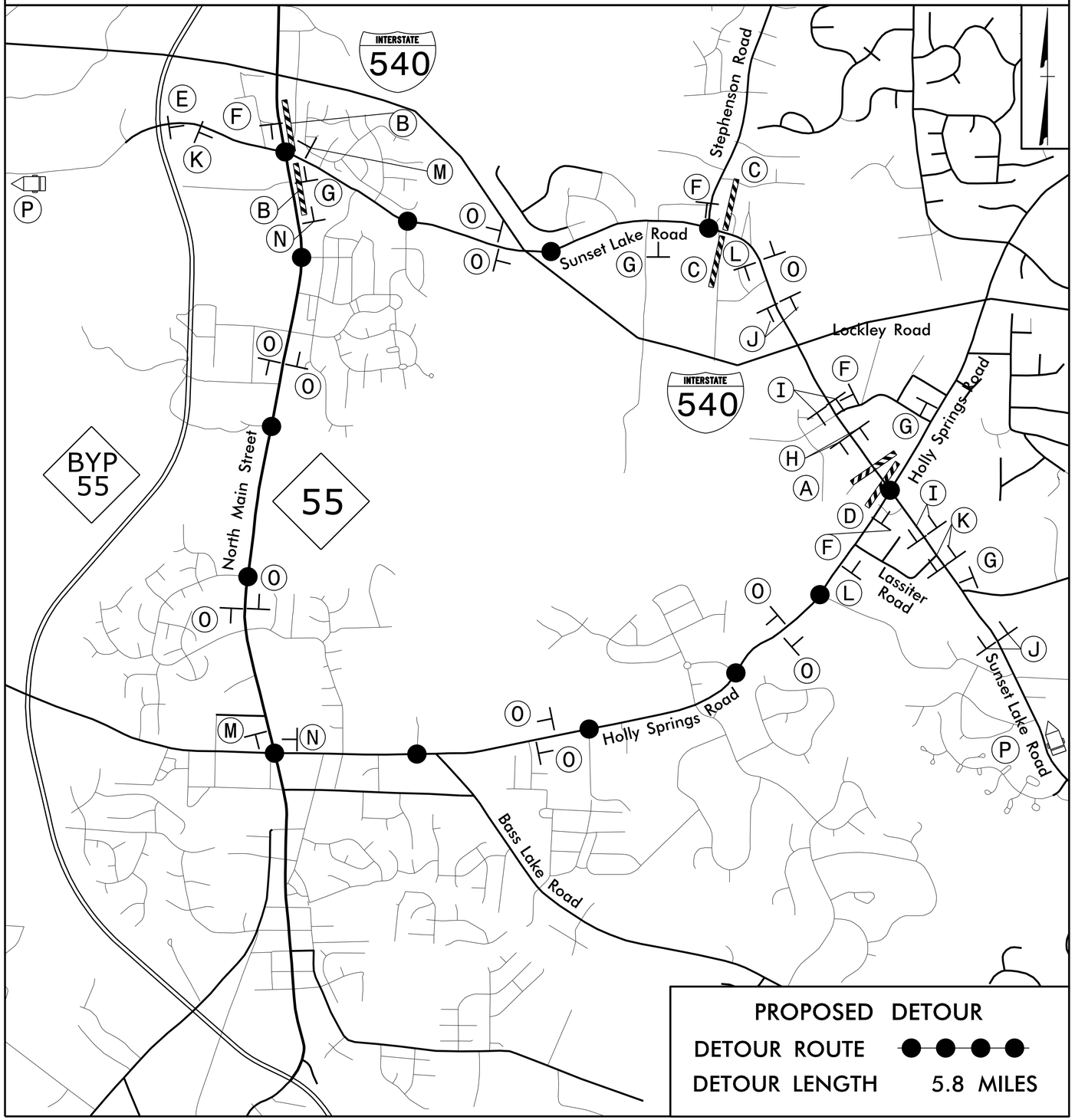
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TEMPORARY TRAFFIC CONTROL PHASE IV

Docusign Envelope ID: 15FC029C-9128-8055-80BF-C8250272C17A

SUNSET LAKE ROAD DETOUR VIA HOLLY SPRINGS ROAD AND NC 55



PROPOSED DETOUR

DETOUR ROUTE

DETOUR LENGTH 5.8 MILES

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-18

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R11-2
48" x 30"
ROAD CLOSED

TYPE III BARRICADE(S)

A

R11-3
60" x 30"
ROAD CLOSED
2.5 MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR
M4-10R
48" x 18"

TYPE III BARRICADE

B

R11-3
60" x 30"
ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

C

R11-2
48" x 30"
ROAD CLOSED
DETOUR
M4-10L
48" x 18"

TYPE III BARRICADE

D

ROAD CLOSED AHEAD
W20-3
48" X 48"

2.8 MILES
W16-3P
24" X 24"

E

ROAD CLOSED AHEAD
W20-3
48" x 48"

NEXT LEFT
SP-4L
42" X 12"

F

ROAD CLOSED AHEAD
W20-3
48" x 48"

NEXT RIGHT
SP-4R
42" X 12"

G

ROAD CLOSED 500 FT
W20-3
48" X 48"

H

ROAD CLOSED 1000 FT
W20-3
48" X 48"

I

ROAD CLOSED AHEAD
W20-3
48" X 48"

J

DETOUR AHEAD
W20-2
48" X 48"

K

END DETOUR
M4-8 A
24" X 18"

L

SUNSET LAKE RD
SD-1
42" x 30"
DETOUR
M4-8
24" X 12"
M6-1 L
21" X 15"

M

SUNSET LAKE RD
SD-1
42" x 30"
DETOUR
M4-8
24" X 12"
M6-1
21" X 15"

N

SUNSET LAKE RD
SD-1
42" x 30"
DETOUR
M4-8
24" X 12"
M6-3
21" X 15"

O

P

MESSAGE NO. 1	MESSAGE NO. 2
SUNSET LAKE RD CLOSED	FOLLOW POSTED DETOUR

CHANGEABLE MESSAGE SIGN

APPROVED: Signed by: Zachary M. Esposito 5647D76D4884E8...

DATE: 7/7/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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PHASE I – STEP B
DETOUR ROUTE

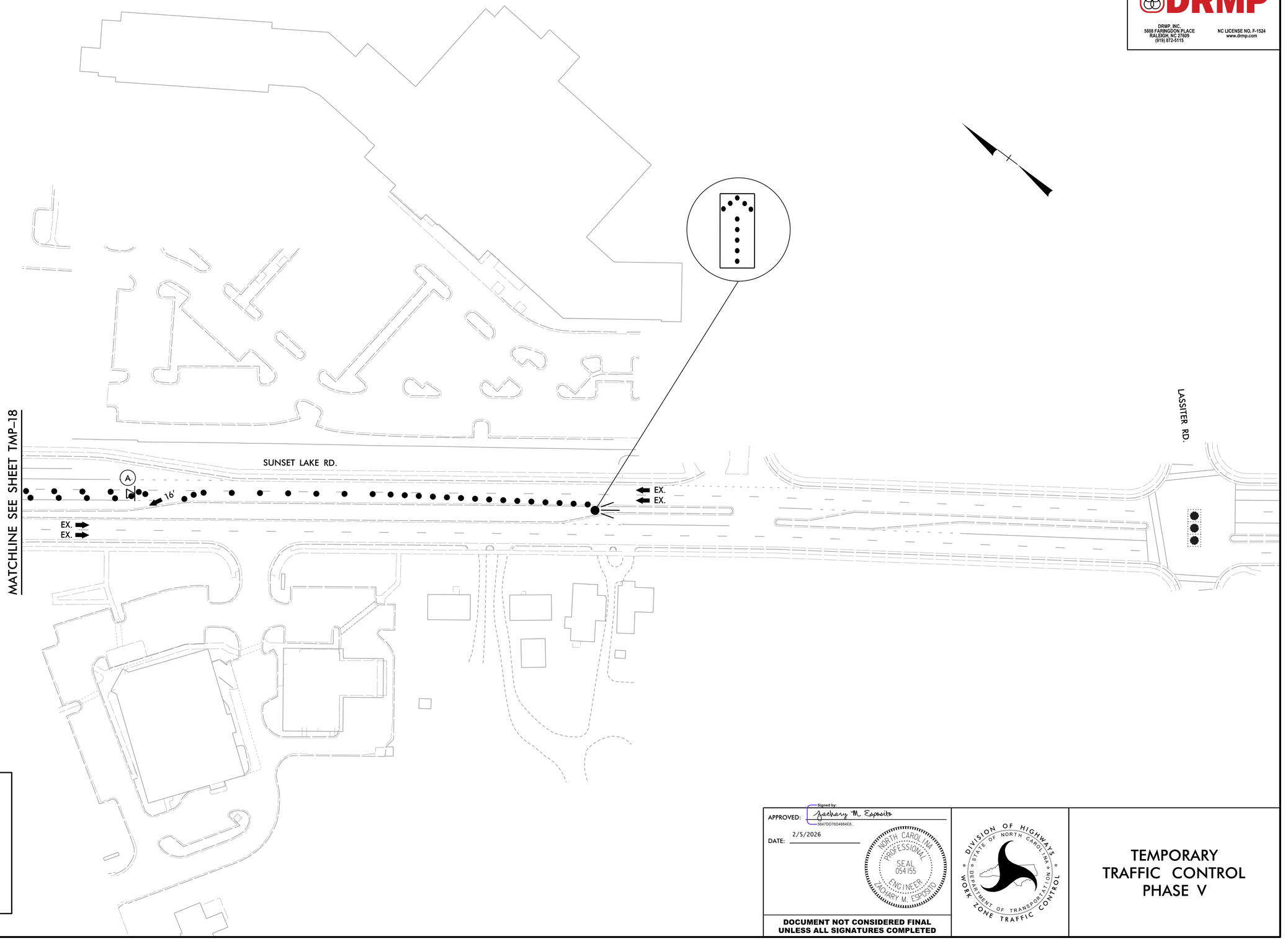
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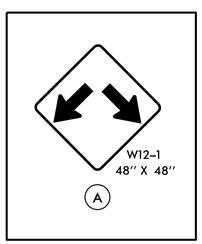
PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-19

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APPROVED: Signed by: Zachary M. Esposito
5647DD760484E8...

DATE: 2/5/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

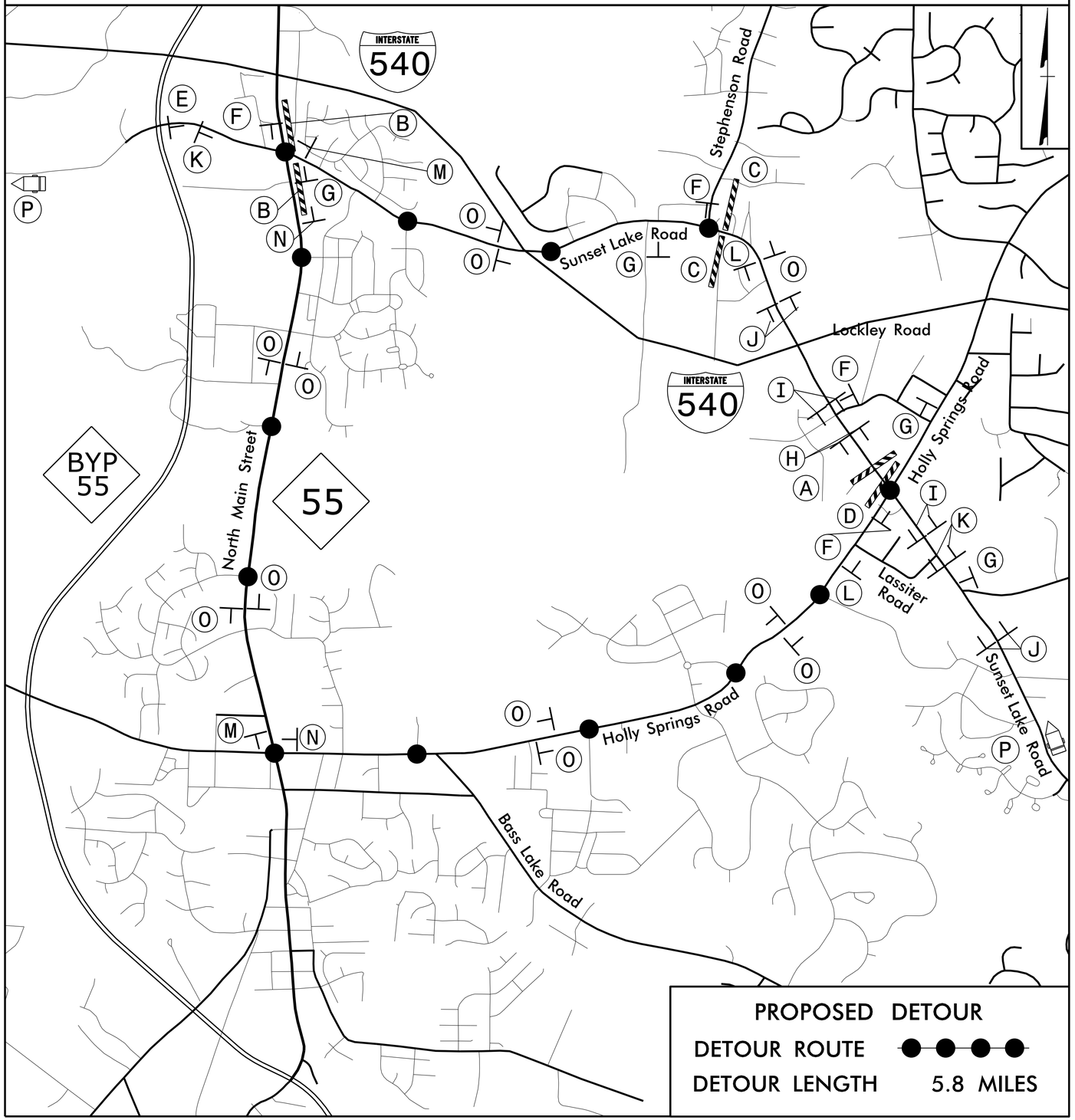
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TEMPORARY TRAFFIC CONTROL PHASE V

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SUNSET LAKE ROAD DETOUR VIA HOLLY SPRINGS ROAD AND NC 55



PROPOSED DETOUR

DETOUR ROUTE

DETOUR LENGTH 5.8 MILES

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	TMP-20

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R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE(S)
A

R11-3
60" x 30"
ROAD CLOSED
2.5 MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR
M4-10R
48" x 18"
TYPE III BARRICADE
B

R11-3
60" x 30"
ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
TYPE III BARRICADE
C

R11-2
48" x 30"
ROAD CLOSED
DETOUR
M4-10L
48" x 18"
TYPE III BARRICADE
D

ROAD CLOSED AHEAD
W20-3
48" X 48"
2.8 MILES
W16-3P
24" X 24"
E

ROAD CLOSED AHEAD
W20-3
48" x 48"
NEXT LEFT
SP-4L
42" X 12"
F

ROAD CLOSED AHEAD
W20-3
48" x 48"
NEXT RIGHT
SP-4R
42" X 12"
G

ROAD CLOSED 500 FT
W20-3
48" X 48"
H

ROAD CLOSED 1000 FT
W20-3
48" X 48"
I

ROAD CLOSED AHEAD
W20-3
48" X 48"
J

DETOUR AHEAD
W20-2
48" X 48"
K

END DETOUR
M4-8 A
24" X 18"
L

SUNSET LAKE RD
DETOUR
SD-1
42" x 30"
M4-8
24" X 12"
M6-1 L
21" X 15"
M

SUNSET LAKE RD
DETOUR
SD-1
42" x 30"
M4-8
24" X 12"
M6-1
21" X 15"
N

SUNSET LAKE RD
DETOUR
SD-1
42" x 30"
M4-8
24" X 12"
M6-3
21" X 15"
O

P

MESSAGE NO. 1	MESSAGE NO. 2
SUNSET LAKE RD CLOSED	FOLLOW POSTED DETOUR

CHANGEABLE MESSAGE SIGN

APPROVED: Signed by: Zachary M. Esposito 5647DD760484E8...

DATE: 2/5/2026

NORTH CAROLINA PROFESSIONAL SEAL 054155 ENGINEER ZACHARY M. ESPOSITO

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PHASE II – STEP B
DETOUR ROUTE

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

TIP PROJECT: HL-0008D

CONTRACT: DE00409

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	PMP-1

APPROVED: Digitally signed by Kayla M. Poulos 1B07791CEF90423...

DATE: 2/5/2026

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 050515 ENGINEER KAYLA M. POULOS

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PAVEMENT MARKING AND SIGNING PLAN
WAKE COUNTY

LOCATION: SR 1301 (SUNSET LAKE ROAD) BETWEEN SR 1152 (HOLLY SPRINGS ROAD) AND SR 3973 (LOCKLEY ROAD)

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL SUPPORTS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1250.01	PAVEMENT MARKINGS - RAISED PAVEMENT MARKERS
1251.01	PAVEMENT MARKINGS - PERMANENT AND TEMPORARY
1264.01	OBJECT MARKERS - SPACING
1264.02	OBJECT MARKERS - INSTALLATION

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
THERMOPLASTIC(4", 90 MILS)	
T1	WHITE EDGELINE
T2	WHITE SOLID LANE LINE
T3	10FT. WHITE SKIP
T4	3FT. - 9FT./SP WHITE MINISKIP
T5	2FT. - 6FT./SP WHITE MINISKIP
T10	YELLOW EDGELINE
T11	YELLOW SINGLE CENTER
T12	10 FT. YELLOW SKIP
T13	YELLOW DOUBLE CENTER
THERMOPLASTIC (8", 90 MILS)	
T46	WHITE CROSSWALK LINE
THERMOPLASTIC (24", 90 MILS)	
T61	WHITE STOPBAR
T62	WHITE CROSSWALK LINE
THERMOPLASTIC PAVEMENT MARKINGS SYMBOLS (90 MILS)	
T70	LEFT TURN ARROW
T72	STRAIGHT ARROW
T73	COMBO. LEFT/STRAIGHT ARROW
T74	COMBO. RIGHT/STRAIGHT ARROW
SNOWPLOWABLE PAVEMENT MARKERS	
MF	POLYCARBONATE H-SHAPED MARKERS

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	POLYCARBONATE H-SHAPED

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

E) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

PROJECT NOTE

1 DISPOSE EXISTING SIGN SYSTEM, U-CHANNEL
2 ALL EXISTING SIGNS TO BE REMOVED AND REPLACED WITH NEW SIGN ASSEMBLIES WITHIN THE PROJECT LIMITS UNLESS OTERWISE NOTED ON THE PLANS.
3 DISPOSE EXISTING SUPPORT, U-CHANNEL

SIGNING GENERAL NOTES

. SIGNS FURNISHED BY CONTRACTOR.
. IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
. WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
. ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
. WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
. THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
. ALL SIGNS WITHIN THE CLEAR ZONE SHALL BE ON BREAKAWAY SUPPORTS THAT COMPLY WITH THE LATEST EDITION OF AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) AND NCHRP REPORT 350.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGNS	120	S.F.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	290	L.F.
4102000000	904	SIGN ERECTION, TYPE E	17	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	18	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	1	EA.
4685000000	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	3560	L.F.
4710000000	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	760	L.F.
4725000000	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	12	EA.
4895000000	SP	POLYCARBONATE H-SHAPED MARKERS	90	EA.

GRAPHIC SCALE

30 15 0 30 60

PLANS

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING AND SIGNING TITLE SHEET
PMP-2	TYPE E SIGNS
PMP-3 THRU PMP-5	PAVEMENT MARKING AND SIGNING DETAILS

PLANS PREPARED BY: DRMP, INC.

KAYLA M. POULOS, PE — PROJECT MANAGER

MIKAYLA M. LINDSEY, PE — PROJECT ENGINEER

DRMP

DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

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(401) QUANTITY REQ'D _2_



18" X 18"
OM1-3

MOUNT BELOW SIGN 402
IN 2 INSTALLATIONS

(406) QUANTITY REQ'D _2_



30" X 30"
W11-15

ONE "U" POST PER SIGN

(402) QUANTITY REQ'D _2_



24" X 30"
R4-7

ONE "U" POST PER SIGN

(403) QUANTITY REQ'D _1_



30" X 36"
R2-1

ONE "U" POST PER SIGN

(404) QUANTITY REQ'D _4_



54" X 18"
R6-1 (R)

TWO "U" POSTS PER SIGN

(405) QUANTITY REQ'D _6_



36" X 36"
R1-1

ONE "U" POST PER SIGN

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	PMP-2A

APPROVED: Signed by: Kayla M. Poulos 1B07791CEF90423...

DATE: 2/5/2026

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 050515 ENGINEER KAYLA M. POULOS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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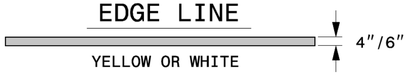
TYPE E SIGNS

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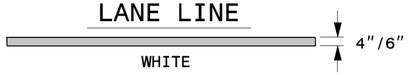
PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	PMP-2B

CONTINUOUS LINES

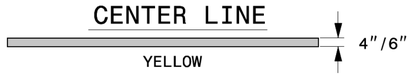
EDGE LINE



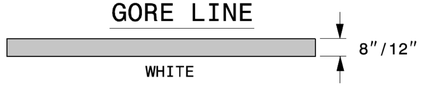
LANE LINE



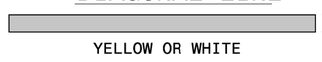
CENTER LINE



GORE LINE

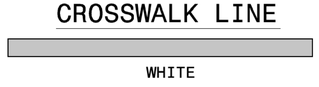


DIAGONAL LINE



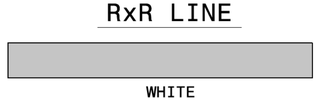
12″ 45 MPH OR HIGHER
8″ LESS THAN 45 MPH
4″-6″ FOR BICYCLE FACILITIES

CROSSWALK LINE

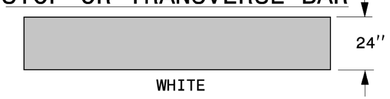


8″ TRANSVERSE
24″ LONGITUDINAL

RxR LINE

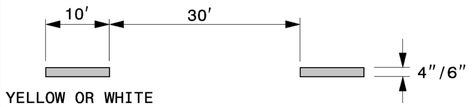


STOP OR TRANSVERSE BAR



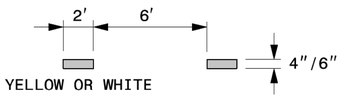
10′-30′/SP SKIP LINE

UNLESS OTHERWISED SHOWN, USE 10′-30′/SP SKIPS FOR SKIP LANE LINES AND SKIP CENTER LINES.



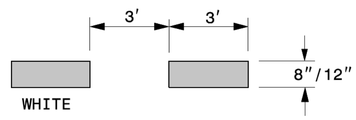
2′-6′/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 2′-6′/SP MINI-SKIPS FOR LANE LINE EXTENSIONS THROUGH INTERSECTIONS, EDGE LINE EXTENSIONS THROUGH INTERSECTIONS AND BICYCLE LANE EXTENSIONS.



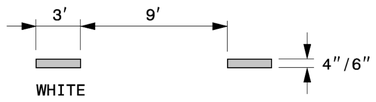
3′-3′/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3′-3′/SP MINI-SKIPS FOR THE WHITE EDGE LINE ENTENSIONS AT ROUNDABOUTS.



3′-9′/SP MINI-SKIP LINE

UNLESS OTHERWISED SHOWN, USE 3′-9′/SP MINI-SKIPS FOR MINI-SKIP LANE LINES, LINE EXTENSIONS THROUGH TAPERS, AND MINI-SKIPS USED FOR BICYCLE LANE LINES.



GENERAL NOTES:

1- USE 6″ LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.

2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR

PAVEMENT MARKINGS

LINE TYPES AND OFFSETS

SHEET 1 OF 2

1205D01

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042546 MATTHEW V. SPRINGER

2/6/2026

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: M.V. SPRINGER DATE: 2-15-24
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

SYMBOL LEGEND	
T70	LEFT TURN ARROW
T71	RIGHT TURN ARROW
T73	THROUGH/LEFT ARROW

PROJECT NOTES

1 DISPOSE EXISTING SIGN SYSTEM, U-CHANNEL
2 ALL EXISTING SIGNS TO BE REMOVED AND REPLACED WITH NEW SIGN ASSEMBLIES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED ON PLANS.

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	PMP-3

APPROVED: Signed by: Kayla M. Poulos 1B07791CEF90423... 2/5/2026
DATE:

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 050515 ENGINEER KAYLA M. POULOS

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–L– STA. 23+21 +/–
TIP PROJECT R–2721 BY OTHERS
–L– STA. 27+50 +/–
–L– STA. 28+52 +/–
–L– STA. 29+96 +/–
SEE NOTE 1
–L– STA. 29+67 +/–
–L– STA. 30+17 +/–
OFFSET = 52′ +/–
–L– STA. 30+01 +/–
OFFSET = 52′ +/–
–L– STA. 30+38 +/–
–L– STA. 31+50
SEE SHEET PMP–4
MATCHLINE –L–
–L– STA. 30+83 +/–
–L– STA. 30+68 +/–
–L– STA. 30+49 +/–
–L– STA. 29+45 +/–
–L– STA. 29+88 +/–
–L– STA. 30+23 +/–
OFFSET 57′ +/–
–L– STA. 30+35 +/–
–L– STA. 30+47 +/–
OFFSET 57′ +/–
–L– STA. 30+35 +/–
OFFSET 80′ +/–
SEE NOTE 1
SEE NOTE 1
SEE NOTE 1

T61 T62 TYP. T11 T12 T10 T5 T61 T3 T4 T2 T13 T62 TYP. T2

401 402 405 406

STOP STOP STOP

RIGHT LANE MUST TURN RIGHT
RIGHT LANE MUST TURN RIGHT

6′ 14′ 11′ 11′ 11′ 14′ 10′

1 2

OCKLEY RD. (SR 3973)

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)
1 –L– STA. 30+57, 47′ RT (SEE RDY SHEET 2C–4)
2 –L– STA. 30+44, 41′ LT (TYPE 1 MOD)

PAVEMENT MARKING AND SIGNING DETAIL

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

PROJECT NOTES

1 DISPOSE EXISTING SIGN SYSTEM, U-CHANNEL
2 ALL EXISTING SIGNS TO BE REMOVED AND REPLACED WITH NEW SIGN ASSEMBLIES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED IN THE PLANS.

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	PMP-4

APPROVED: Signed by: Kayla M. Poulos 1B07791CEF90423... DATE: 2/5/2026

SEAL

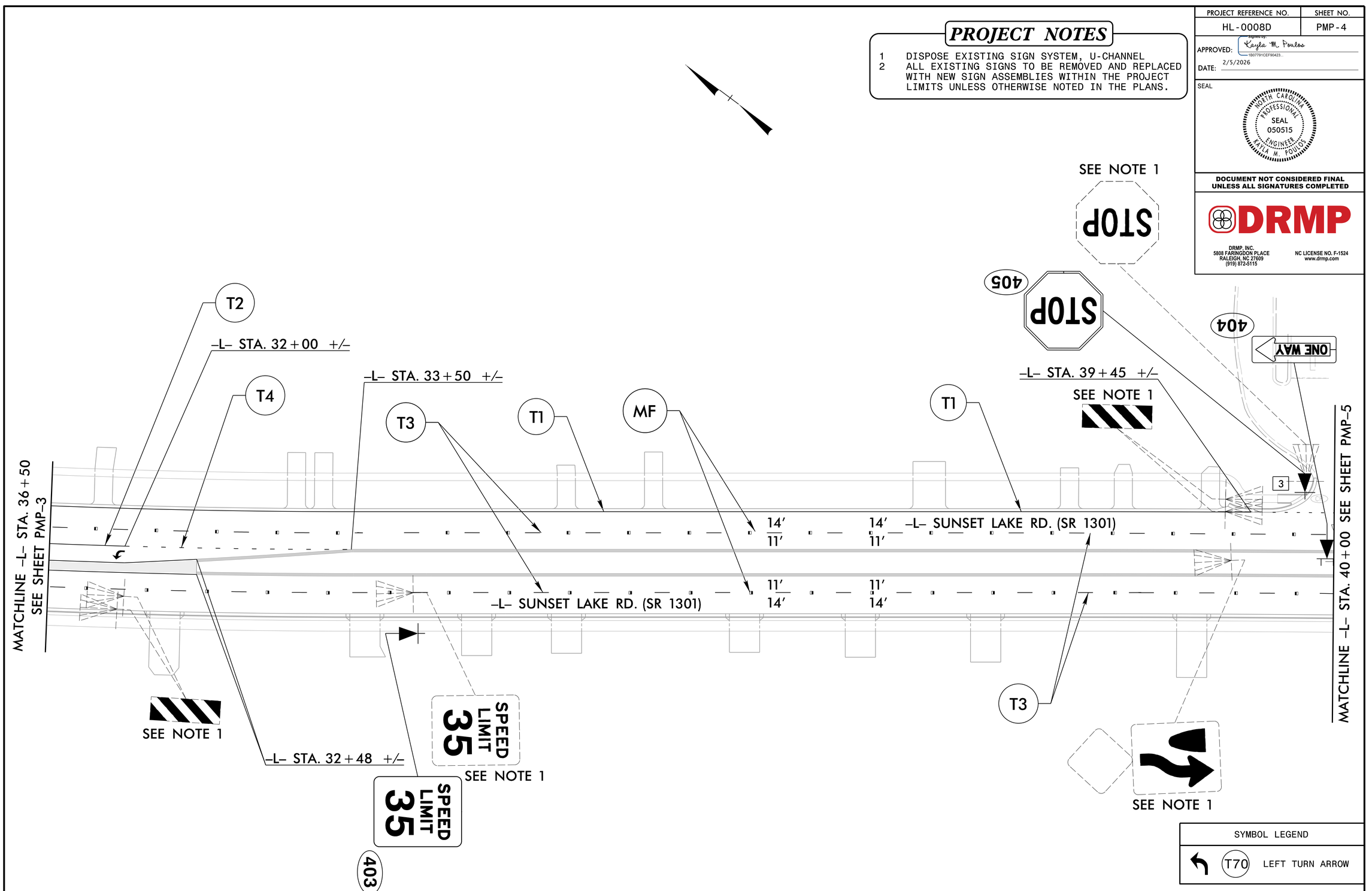
NORTH CAROLINA PROFESSIONAL SEAL 050515 ENGINEER KAYLA M. POULOS

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SYMBOL LEGEND	
T70	LEFT TURN ARROW

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)
3 –L– STA. 39+77, 41′ LT (TYPE 1 MOD)

PAVEMENT MARKING AND SIGNING DETAIL

Docusign Envelope ID: 5A67696B-3D77-4AFF-A60E-0D3D612E9B4D

PROJECT NOTES

1 DISPOSE EXISTING SIGN SYSTEM, U-CHANNEL
2 ALL EXISTING SIGNS TO BE REMOVED AND REPLACED WITH NEW SIGN ASSEMBLIES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED ON THE PLANS.
3 DISPOSE EXISTING SUPPORT, U-CHANNEL
4 RELOCATE EXISTING SIGN

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	PMP-5

APPROVED: Signed by: Kayla M. Poulos 1B07791CEF90423...
DATE: 2/5/2026

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–L– STA. 40+60 +/–
MATCHLINE –L– STA. 40+00 SEE SHEET PMP–4
SEE NOTE 1
STOP
405
404
ONE WAY
406
T46
T5
T4
T2
T3
–L– STA. 41+74 +/–
–L– STA. 42+50 +/–
–L– STA. 45+43 +/–
–L– STA. 45+37 +/–
–L– STA. 45+49 +/–
SEE NOTE 1
RIGHT LANE MUST TURN RIGHT
402
401
SEE NOTE 1
4
6
8
14′ 11′
11′ 14′
11′ 11′
11′ 11′
–L– SUNSET LAKE RD. (SR 1301)
T61
–L– STA. 45+91 +/–
–Y1– STA. 103+45 +/–
–Y1– STA. 103+33 +/–
–Y1– STA. 102+90 +/–
–Y1– STA. 102+83 +/–
MF
–L– STA. 41+53 +/–
–L– STA. 41+66 +/–
5
7
9
ONE WAY
404
–L– STA. 42+56 +/–
–L– STA. 42+24 +/–
–Y1– STA. 103+13 +/–
11′ 11′
SEE NOTE 1
T5
ONE WAY
404
STOP
405
SEE NOTE 1
STOP
405
SEE NOTE 1
–L– STA. 45+61 +/–
–L– STA. 45+67 +/–
–L– STA. 45+73 +/–
–L– STA. 45+79 +/–
10
RIGHT LANE MUST TURN RIGHT
SEE NOTE 1
RETAIN SIGN SYSTEM
SEE NOTES 3 & 4
ADOPT A HIGHWAY
11
–Y1– HOLLY SPRINGS RD. (SR 1152)
T3
TIP PROJECT U–6243 BY OTHERS
–Y1– STA. 99+91 +/–

SYMBOL LEGEND	
T70	LEFT TURN ARROW
T72	THROUGH ARROW
T74	THROUGH/RIGHT ARROW

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
4 –L– STA. 40+40, 41′ LT (TYPE 1 MOD)	8 –L– STA. 42+37, 40′ LT (TYPE 1 MOD)
5 –L– STA. 41+65, 40′ RT (TYPE 1 MOD)	9 –L– STA. 45+93, 45′ RT (STD. 848.06 PG 3)
6 –L– STA. 41+90, 41′ LT (TYPE 1 MOD)	10 –Y1– STA. 101+73, 45′ LT (TYPE 1 MOD)
7 –L– STA. 42+08, 41′ RT (SEE RDY SHEET 2C–4)	11 –Y1– STA. 101+25, 48′ LT (TYPE 1 MOD)

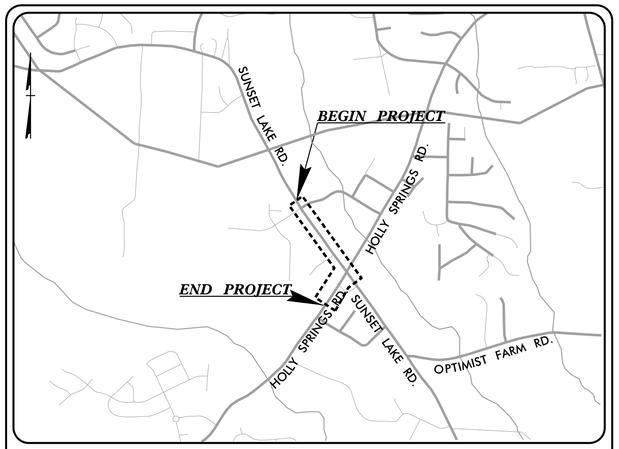
PAVEMENT MARKING AND SIGNING DETAIL

TIP PROJECT: HL–0008D

CONTRACT: DE00409

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HL-0008D	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
49367.1.8	N/A	PE
49367.2.9	N/A	R/W
49367.2.17	N/A	UTIL
49367.3.8	N/A	CONST



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

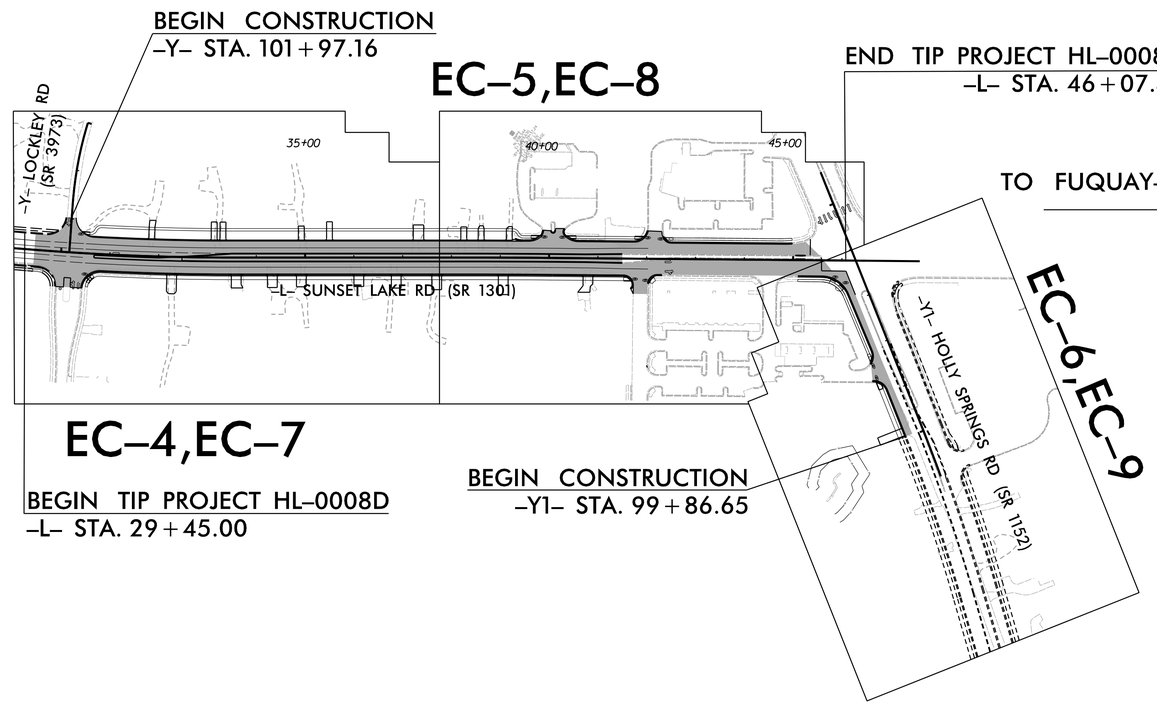
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WAKE COUNTY

LOCATION: *SR 1301 (SUNSET LAKE ROAD) BETWEEN SR 1152 (HOLLY SPRINGS ROAD) AND SR 3973 (LOCKLEY ROAD)*

TYPE OF WORK: GRADING, PAVING, & DRAINAGE

NAD 83/NA 2011



ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

GRAPHIC SCALE

30 15 0 30 60
PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

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Prepared in the Office of:

DRMP, INC.
5805 FARINGDON PLACE,
RALEIGH, NC 27609
NC LICENSE NO. F-1524 (919) 872-5115

Designed by:

SEAN V. MCCARTHY *4773*
NAME *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

12/18/2025
HL-0008D_EC_TSH.dgn
User: mlindsay

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-1A
R/W SHEET NO.	

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1636.03	Coir Fiber Wattle Barrier	—CFW—CFW—CFW—

8/22/2025
K:\HL_0008D_EC_1A.dgn
User:Ryan.Jubb

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-2A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	31+00	39+00	LT	1420
				SUBTOTAL	1420
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					8750
				TOTAL	10170
				SAY	10170

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-2B

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES.

8/22/2025
\\HL0008D_EC_3 SERIES_SUMMARIES.dgn
User: Ryan.Jobb

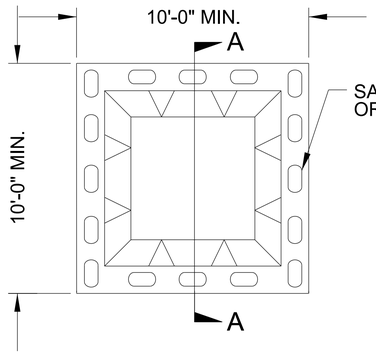
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-2C
R/W SHEET NO.	

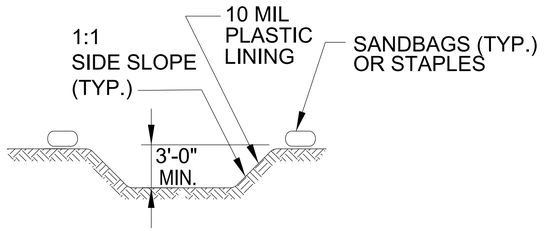
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ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A



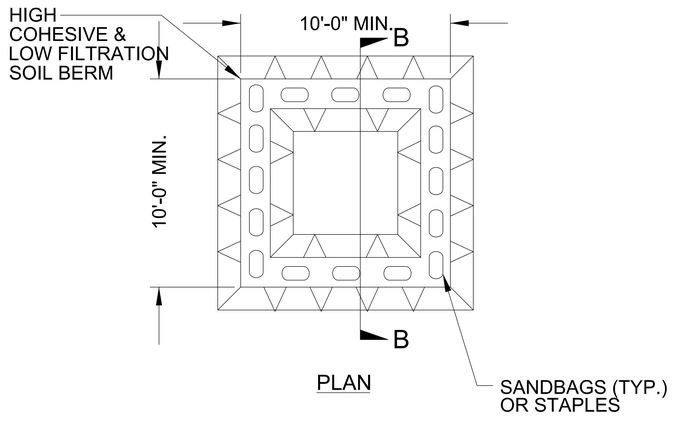
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

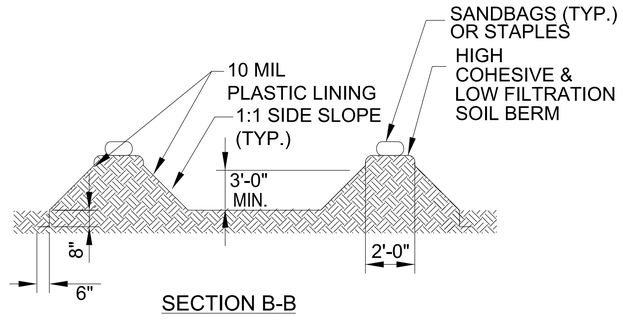
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



PLAN



SECTION B-B



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

8/22/2025
...\HL-0008D_EC_2C.dgn
User:Ryan.Jubb

8/17/99

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
RIST TYPE-C INLET PROTECTION EROSION CONTROL MEASURES MAY BE SUBSTITUTED WITH FABRIC INSERT INLET PROTECTION ON CATCH BASINS AT THE DISCRETION OF THE ENGINEER.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-4/CONST-4
R/W SHEET NO.	

DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
www.drmp.com

NAD 83/2011

-Y- LOCKLEY ROAD (SR 3973)

30+00

35+00

BEGIN CONSTRUCTION
-Y- STA. 101+44.38
TIE TO EXIST.

BEGIN TIP PROJECT HL-0008D
-L- STA. 29+45.00

-L- SUNSET LAKE ROAD (SR 1301)

MATCHLINE -L- STA. 37+85.00
SEE SHEET EC-5/CONST-5

JAMES AND EVELYN BREWINGTON
DB 3613 PG 948
BM 1967 PG 101

1 EMMA LEACH
DB 1952 PG 661
BM 1967 PG 101

2 APEX NORTH CAROLINA
DB 17872 PG 2468
BM 1967 PG 101

3 RUBY AND JAMES SIDNEY
DB 12108 PG 2082
BM 1967 PG 101

4 JAMES SIDNEY
DB 2940 PG 614
BM 1967 PG 101

5 JAMES AND EVA SIDNEY
DB 2332 PG 699
BM 1967 PG 101

6 LEON AND LINDA BAKER
DB 2964 PG 711
BM 1967 PG 101

7 MICHAEL AND BRENDA JACKSON
DB 4222 PG 443
BM 1967 PG 101

14 DONALD WINSTON
DB 7396 PG 16
BM 1967 PG 101

15 WAKE ACQUISITIONS LLC
DB 11628 PG 548
BM 1967 PG 101

16 GRADY AND DORETHA MCKEY
DB 4972 PG 217
BM 1991 PG 825

17 DALE HEMRICK AND STEVEN NORRIS
DB 15303 PG 1116
BM 1991 PG 825

18 MARK AND ARLENE MCDONALD
DB 8310 PG 265
BM 1967 PG 101

19 ASCENT CAPITAL MANAGEMENT LLC
DB 18225 PG 2494
BM 1959 PG 167

20 GRAHAM RAINES, JR
DB 4113 PG 474
BM 1959 PG 167

21 JENNIFER FAULK AND ANTHONY ARTIS
DB 17249 PG 2601
BM 2008 PG 1398

22 WOODCREEK NEIGHBORHOOD ASSN
DB 13338 PG 1672
BM 2008 PG 1398

DAVID CARLSON AND ELIZABETH CARLSON
DB 17389 PG 2311
BM 2008 PG 1398

GRADE TO DRAIN
SEE NOTE A THIS SHEET
WATTLE (TYP.)
WATTLE WITH PAM (TYP.)
LOD
PUE
18" RCP-IV
15" RCP-IV
18" PIPE
REMOVE 18" PIPE
REMOVE 15" PIPE
REMOVE 15" PIPE FROM R-2721A PROJECT
REMOVE TBJB FROM R-2721A PROJECT
REMOVE 18" PIPE
TIE TO TBJB FROM R-2721A PROJECT
REMOVE CB
REMOVE FES
TIE TO CB FROM R-2721A PROJECT
ROCK INLET SEDIMENT TRAP TYPE C (TYP.)
SPECIAL SEDIMENT CONTROL FENCE (TYP.)
TEMP. SEDIMENT CONTROL FENCE (TYP.)
SEE NOTE A THIS SHEET

NOTE A:
3 TONS CLASS B RIP RAP
10 SY GEOTEXTILE FABRIC
SEE NCDOT STD. 876.02

8/22/2025
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User: Ryan.Jubb

8/17/99

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

NOTE:
RIST TYPE-C INLET PROTECTION EROSION CONTROL MEASURES MAY BE SUBSTITUTED WITH FABRIC INSERT INLET PROTECTION ON CATCH BASINS AT THE DISCRETION OF THE ENGINEER.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-5/CONST-5
R/W SHEET NO.	

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RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
www.drmp.com

NAD 83/2011

MATCHLINE -L- STA. 37+85.00
SEE SHEET EC-4/CONST-4

MATCHLINE -Y1- STA. 103+10.00
SEE SHEET EC-6/CONST-4

END TIP PROJECT HL-0008D
-L- STA. 46+07.40

-Y1- HOLLY SPRINGS ROAD (SR 1152)

40+00

45+00

MICHAEL AND BRENDA JACKSON
DB 4229 PG 443
BM 1967 PG 101

TRIVENI SANGAM LLC
DB 17214 PG 914
BM 1967 PG 101

AMERICAN PROPERTIES HOLDINGS LLC
DB 11189 PG 1527
BM 2011 PG 109

PARMINDER AND PARDEEP SANDHAR
DB 16338 PG 908
BM 1967 PG 101
BM 2004 PG 446

VICTOR ERENBERG TRUSTEE
DB 17203 PG 944
BM 2003 PG 666
BM 2004 PG 446

MICHAEL EDWARDS SUPREME CAR WASH INC
DB 17313 PG 113
BM 2009 PG 941

SUNHOLLY LLC
DB 9914 PG 1904
BM 2004 PG 446

JOYCE WILLIAMS
DB 8748 PG 564
BM 2004 PG 447

BRISTA LLC
DB 15173 PG 1668
BM 1967 PG 101
BM 2004 PG 447

DONALD WINSTON
DB 7396 PG 16
BM 1967 PG 101

REMOVE 18" PIPE
SEE NOTE A THIS SHEET
REMOVE 15" PIPE
REMOVE JB
REMOVE FES
REMOVE CB
REMOVE 18" PIPE
ROCK INLET SEDIMENT TRAP TYPE C (TYP.)
ADJUST CB
RETAIN PIPE
RETAIN CB
REMOVE MANHOLE
15" PIPE TO REMAIN
CB TO REMAIN
SPECIAL SEDIMENT CONTROL FENCE (TYP.)
TEMP. SEDIMENT CONTROL FENCE (TYP.)

18" PIPE
24" RCP-IV
18" RCP-IV
15" RCP-IV
30" RCP-IV

LOD
EOD
PUE
CR
F
E
C
D

NOTE A:
3 TONS CLASS B RIP RAP
10 SY GEOTEXTILE FABRIC
SEE NCDOT STD. 876.02

60.00'

EXISTING R/W

8/22/2025
HL_0008D_EC_psh05_CG.dgn
User: Ryan.Jobb

8/17/99

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

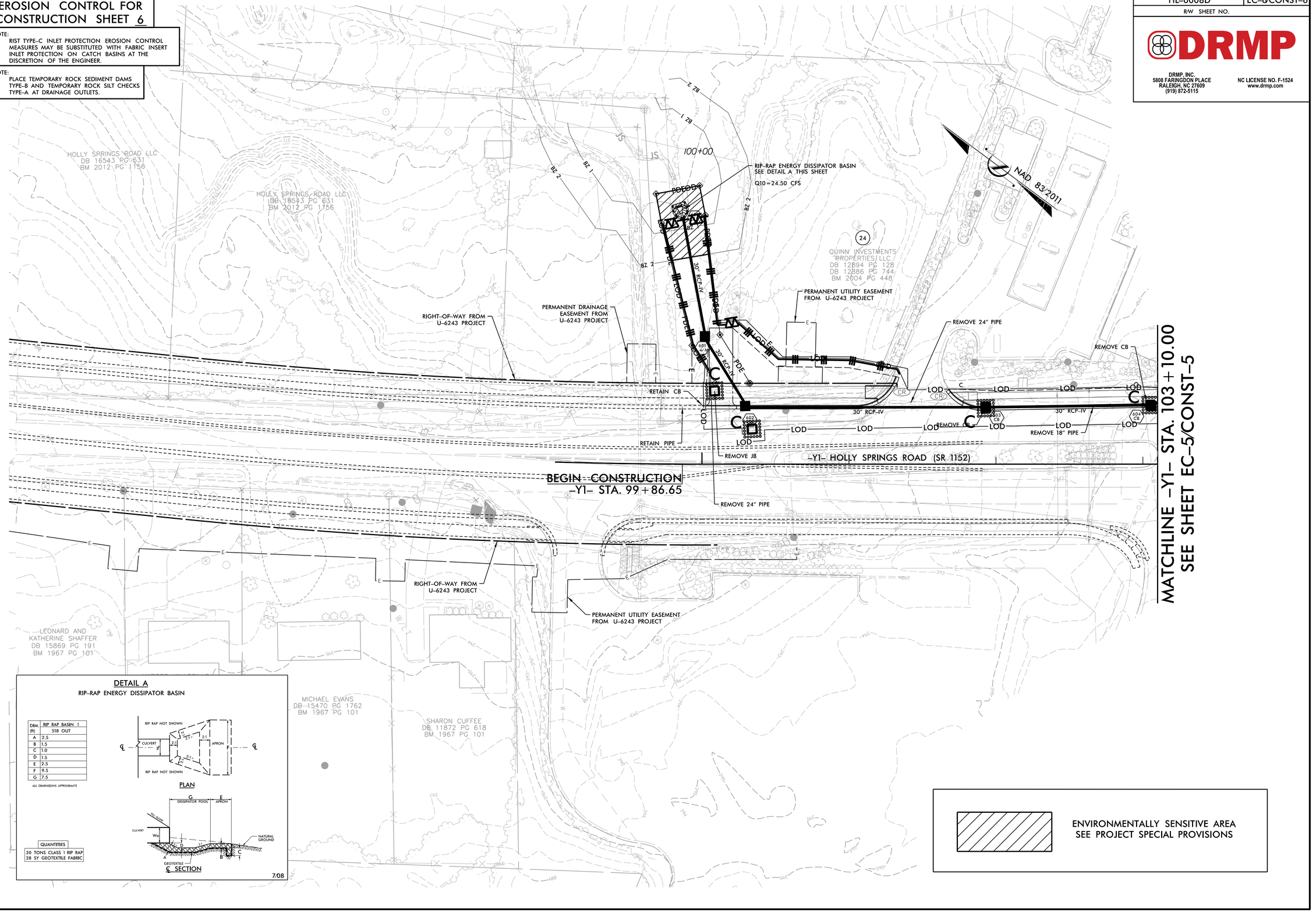
NOTE:
RIST TYPE–C INLET PROTECTION EROSION CONTROL MEASURES MAY BE SUBSTITUTED WITH FABRIC INSERT INLET PROTECTION ON CATCH BASINS AT THE DISCRETION OF THE ENGINEER.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE–B AND TEMPORARY ROCK SILT CHECKS TYPE–A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
HL–0008D	EC–6/CONST–6
R/W SHEET NO.	

DRMP, INC.
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RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
www.drmp.com



DETAIL A
RIP–RAP ENERGY DISSIPATOR BASIN

DIM. (ft)	RIP RAP BASIN 1 518 OUT
A	2.5
B	1.5
C	1.0
D	1.5
E	2.5
F	9.5
G	7.5

ALL DIMENSIONS APPROXIMATE

PLAN

℄ SECTION

QUANTITIES
20 TONS CLASS 1 RIP RAP
28 SY GEOTEXTILE FABRIC

7/08

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

8/22/2025
HL0008D_EC_psh06_CG.dgn
User: RyanJubb

8/17/99

FINAL PHASE

NOTE:
RIST TYPE-C INLET PROTECTION EROSION CONTROL MEASURES MAY BE SUBSTITUTED WITH FABRIC INSERT INLET PROTECTION ON CATCH BASINS AT THE DISCRETION OF THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-7/CONST-4
R/W SHEET NO.	

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NC LICENSE NO. F-1524
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NAD 83/2011

-Y- LOCKLEY ROAD (SR 3973)

BEGIN CONSTRUCTION
-Y- STA. 101+44.38
TIE TO EXIST.

BEGIN TIP PROJECT HL-0008D
-L- STA. 29+45.00

-L- SUNSET LAKE ROAD (SR 1301)

MATCHLINE -L- STA. 37+85.00
SEE SHEET EC-8/CONST-5

NOTE A:
3 TONS CLASS B RIP RAP
10 SY GEOTEXTILE FABRIC
SEE NCDOT STD. 876.02

JAMES AND EVELYN BREWINGTON DB 3613 PG 948 BM 1967 PG 101

1 EMMA LEACH DB 1952 PG 661 BM 1967 PG 101

2 APEX NORTH CAROLINA DB 17872 PG 2468 BM 1967 PG 101

3 RUBY AND JAMES SIDNEY DB 12108 PG 2082 BM 1967 PG 101

4 JAMES SIDNEY DB 2940 PG 614 BM 1967 PG 101

5 JAMES AND ELLA SIDNEY DB 2132 PG 699 BM 1967 PG 101

6 LEON AND LINDA BAKER DB 2964 PG 711 BM 1967 PG 101

7 MICHAEL AND BRENDA JACKSON DB 4222 PG 443 BM 1967 PG 101

14 DONALD WINSTON DB 7396 PG 16 BM 1967 PG 101

15 WAKE ACQUISITIONS LLC DB 11628 PG 548 BM 1967 PG 101

16 GRADY AND DORETHA MCKEY DB 4972 PG 217 BM 1991 PG 825

17 DALE HEMRICK AND STEVEN NORRIS DB 15303 PG 1116 BM 1991 PG 825

18 MARK AND ARLENE MCDONALD DB 8310 PG 265 BM 1967 PG 101

19 ASCENT CAPITAL MANAGEMENT LLC DB 18225 PG 2494 BM 1959 PG 167

20 GRAHAM RAINES, JR DB 4113 PG 474 BM 1959 PG 167

21 JENNIFER FAULK AND ANTHONY ARTIS DB 17249 PG 2601 BM 2008 PG 1398

22 WOODCREEK NEIGHBORHOOD ASSN DB 13338 PG 1672 BM 2008 PG 1398

DAVID CARLSON AND ELIZABETH CARLSON DB 17389 PG 2311 BM 2008 PG 1398

8/22/2025
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User: Ryan.Jobb

8/17/99

FINAL PHASE

NOTE:
RIST TYPE-C INLET PROTECTION EROSION CONTROL MEASURES MAY BE SUBSTITUTED WITH FABRIC INSERT INLET PROTECTION ON CATCH BASINS AT THE DISCRETION OF THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-8/CONST-5
R/W SHEET NO.	

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(919) 872-5115
NC LICENSE NO. F-1524
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MATCHLINE -L- STA. 37+85.00
SEE SHEET EC-7/CONST-4

MATCHLINE -Y1- STA. 103+10.00
SEE SHEET EC-9/CONST-4

END TIP PROJECT HL-0008D
-L- STA. 46+07.40

NAD 83/2011

-Y1- HOLLY SPRINGS ROAD (SR 1152)

40+00

45+00

7 MICHAEL AND BRENDA JACKSON DB 4222 PG 443 BM 1967 PG 101

8 TRIVENI SANGAM LLC DB 17214 PG 914 BM 1967 PG 101

9 AMERICAN PROPERTIES HOLDINGS LLC DB 11189 PG 1527 BM 2011 PG 109

10 PARMINDER AND PARDEEP SANDHAR DB 16338 PG 908 BM 1967 PG 101 BM 2004 PG 446

VICTOR ERENBERG TRUSTEE DB 17203 PG 944 BM 2003 PG 666 BM 2004 PG 446

MICHAEL EDWARDS SUPREME CAR WASH INC DB 17313 PG 113 BM 2009 PG 941

SUNHOLLY LLC DB 9914 PG 1904 BM 2004 PG 445

14 DONALD WINSTON DB 7396 PG 16 BM 1967 PG 101

12 BRISTA LLC DB 15173 PG 1668 BM 1967 PG 101 BM 2004 PG 447

23 JOYCE WILLIAMS DB 8748 PG 564 BM 2004 PG 447

26

REMOVE 18" PIPE
REMOVE CB
REMOVE 18" PIPE
REMOVE 15" PIPE
REMOVE 18" PIPE
REMOVE CB
REMOVE JB
REMOVE FES
REMOVE 18" PIPE
REMOVE 18" PIPE
REMOVE CB
REMOVE 18" PIPE
REMOVE CB
REMOVE 18" PIPE
REMOVE 18" PIPE
REMOVE CB
REMOVE 18" PIPE
REMOVE MANHOLE
REMOVE 18" PIPE
REMOVE CB
REMOVE 18" PIPE
ADJUST CB
RETAIN PIPE
RETAIN CB
RETAIN PIPE
RETAIN PIPE
REMOVE 18" PIPE
SEE NOTE A THIS SHEET
SPECIAL SEDIMENT CONTROL FENCE (TYP.)
TEMP. SEDIMENT CONTROL FENCE (TYP.)
ROCK INLET SEDIMENT TRAP TYPE C (TYP.)
15" PIPE TO REMAIN
CB TO REMAIN

18" PIPE
18" PIPE
24" RCP-IV
18" RCP-IV
15" RCP-IV
30" RCP-IV
8" PVC

+28.22
66.44
+94.16
EX. R/W
+07.00
78.41
-L- +58.00
EX. R/W
-Y1- +13.70
EX. R/W

60.00'

NOTE A:
3 TONS CLASS B RIP RAP
10 SY GEOTEXTILE FABRIC
SEE NCDOT STD. 876.02

8/22/2025
HL0008D_EC_psh05_FINAL.dgn
User: Ryan.Jobe

8/17/99

FINAL PHASE

NOTE:
RIST TYPE-C INLET PROTECTION EROSION CONTROL MEASURES MAY BE SUBSTITUTED WITH FABRIC INSERT INLET PROTECTION ON CATCH BASINS AT THE DISCRETION OF THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	EC-9/CONST-6
R/W SHEET NO.	

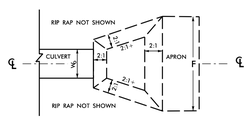
DRMP
DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115
NC LICENSE NO. F-1524
www.drmp.com

8" PVC END UNK
8" DIP
HOLLY SPRINGS ROAD LLC
DB 16543 PG 631
BM 2012 PG 1156
HOLLY SPRINGS ROAD LLC
DB 16543 PG 631
BM 2012 PG 1156
100+00
RIP-RAP ENERGY DISSIPATOR BASIN
SEE DETAIL A THIS SHEET
Q10=24.50 CFS
NAD 83/2011
QUINN INVESTMENTS PROPERTIES LLC
DB 12894 PG 128
DB 12886 PG 744
BM 2004 PG 448
PERMANENT UTILITY EASEMENT FROM U-6243 PROJECT
RIGHT-OF-WAY FROM U-6243 PROJECT
PERMANENT DRAINAGE EASEMENT FROM U-6243 PROJECT
REMOVE 24" PIPE
REMOVE CB
RETAIN CB
RETAIN PIPE
REMOVE JB
REMOVE 18" PIPE
30" RCP-IV
-Y1- HOLLY SPRINGS ROAD (SR 1152)
BEGIN CONSTRUCTION
-Y1- STA. 99+86.65
MATCHLINE -Y1- STA. 103+10.00
SEE SHEET EC-8/CONST-5
LEONARD AND KATHERINE SHAFFER
DB 15869 PG 191
BM 1967 PG 101
MICHAEL EVANS
DB 15470 PG 1762
BM 1967 PG 101
SHARON CUFFEE
DB 11872 PG 618
BM 1967 PG 101

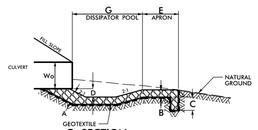
DETAIL A
RIP-RAP ENERGY DISSIPATOR BASIN

DIM. (ft)	RIP RAP BASIN 1 518 OUT
A	2.5
B	1.5
C	1.0
D	1.5
E	2.5
F	9.5
G	7.5

ALL DIMENSIONS APPROXIMATE



PLAN



℄ SECTION

QUANTITIES
20 TONS CLASS 1 RIP RAP
28 SY GEOTEXTILE FABRIC

7/08

8/22/2025
HL0008D_EC_psh06_FINAL.dgn
User: RyanJubb

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HL0008D	RF-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
49367.1.8	N/A	P.E.	

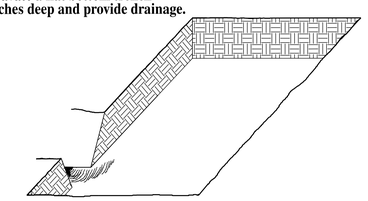
PLANTING DETAILS

SEEDLING / LINER BAREROOT PLANTING DETAIL

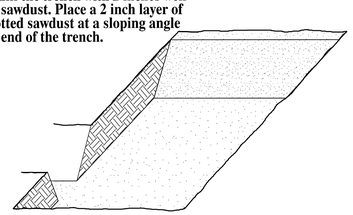
HEALING IN

1. Locate a healing-in site in a shady, well protected area.

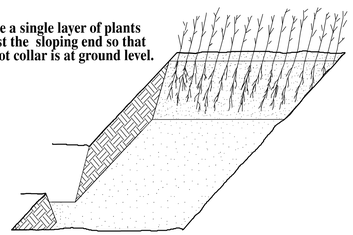
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



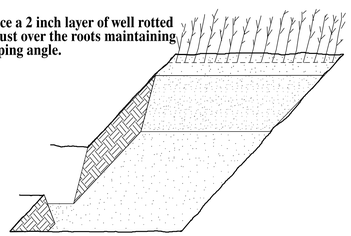
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



4. Place a single layer of plants against the sloping end so that the root collar is at ground level.

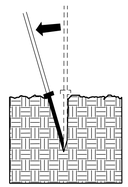


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

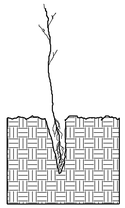


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

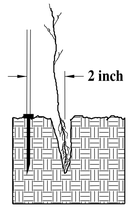
DIBBLE PLANTING METHOD
USING THE KBC PLANTING BAR



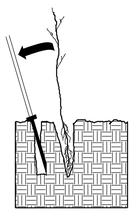
1. Insert planting bar as shown and pull handle toward planter.



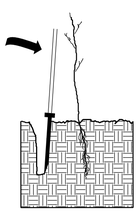
2. Remove planting bar and place seedling at correct depth.



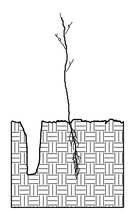
3. Insert planting bar 2 inches toward planter from seedling.



4. Pull handle of bar toward planter, firming soil at bottom.



5. Push handle forward firming soil at top.



6. Leave compaction hole open. Water thoroughly.

PLANTING NOTES:

PLANTING BAG
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.



KBC PLANTING BAR
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



ROOT PRUNING
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

REFORESTATION

☐ TREE REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

REFORESTATION

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

33% LIRIODENDRON TULIPIFERA	TULIP POPLAR	12 in - 18 in BR
33% PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	12 in - 18 in BR
34% BETULA NIGRA	RIVER BIRCH	12 in - 18 in BR

REFORESTATION DETAIL SHEET

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

09/08/99

TIP PROJECT: HL–0008D

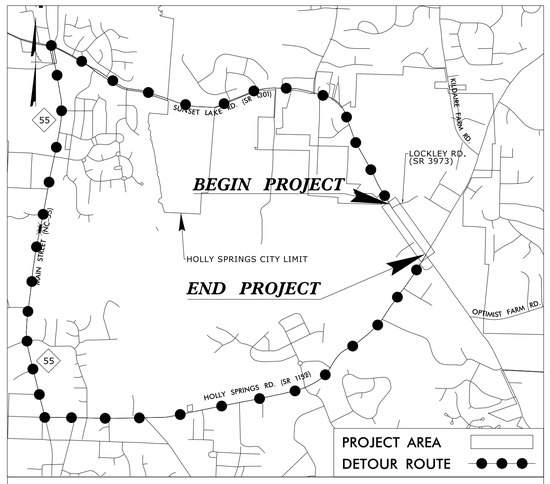
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

T.I.P. NO.	SHEET NO.
HL–0008D	UC–1

UTILITY CONSTRUCTION PLANS
WAKE COUNTY

LOCATION: SR 1301 (SUNSET LAKE ROAD) BETWEEN SR 1152 (HOLLY SPRINGS ROAD) AND SR 3973 (LOCKLEY ROAD)

TYPE OF WORK: WATER RELOCATION



VICINITY MAP *N.T.S.*

END TIP PROJECT HL–0008D
–L– STA. 46 + 07.40

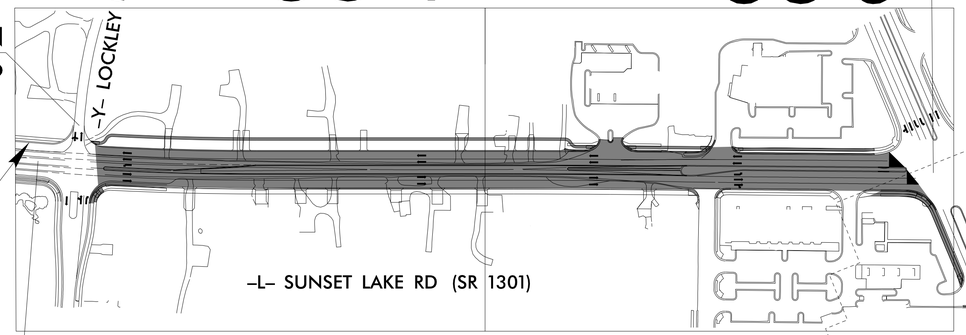
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UC–4 UC–5

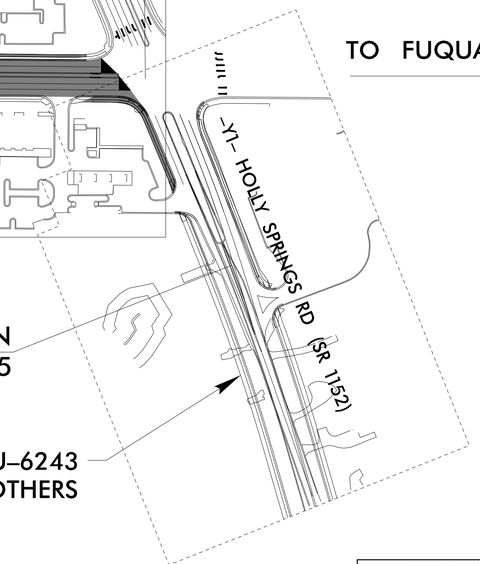
BEGIN CONSTRUCTION
–Y– STA. 101 + 97.16

TO FELTONVILLE

TIP PROJECT R–2721A
BY OTHERS



TO FUQUAY–VARINA



BEGIN CONSTRUCTION
–Y1– STA. 100 + 02.45

BEGIN TIP PROJECT HL–0008D
–L– STA. 29 + 45.00

TIP PROJECT U–6243
PROJECT BY OTHERS

DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED

GRAPHIC SCALES

50 25 0 30 60
PLANS

50 25 0 30 60
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UC–1	TITLE SHEET
UC–2	UTILITY SYMBOLOGY
UC–3	NOTES
UC–3A THRU UC–3B	DETAILS
UC–4 THRU UC–5	UTILITY CONSTRUCTION SHEET

WATER OWNER ON PROJECT

(A) WATER TOWN OF HOLLY SPRINGS

PREPARED IN THE OFFICE OF

Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F–0929

AMIR R. HADJIMIRY, PE	*CONSULTANT CONTACT #1*
LEIGH–ANN B. DUDLEY, PE	*CONSULTANT CONTACT #2*
THOMAS P. B. CANTY, PE	*CONSULTANT CONTACT #3*

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 048011 ENGINEER AMIR R. HADJIMIRY
6/19/24

DIVISION OF HIGHWAYS
DIVISION 5
PROJECT DEVELOPMENT UNIT
2612 N. DUKE STREET
DURHAM NC 27704
PHONE (919) 317–4700
FAX (919) 317–4710

Susan Lancaster, PE	*TEAM LEAD*
Caleb Whitby, PE	*PROJECT MANAGER*
Donald W. Proper	*DIVISION UTILITIES ENGINEER*
James Swinson	*SENIOR UTILITIES ENGINEER*

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UC-2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

- Water Line (Sized as Shown) — 12" WL
- 11¼ Degree Bend
- 22½ Degree Bend
- 45 Degree Bend
- 90 Degree Bend
- Plug
- Tee
- Cross
- Reducer
- Gate Valve — GV
- Butterfly Valve — BV
- Tapping Valve — TGV
- Line Stop — LS
- Line Stop with Bypass — LS/BP
- Blow Off — BO
- Fire Hydrant — PFH
- Relocate Fire Hydrant — REH
- Remove Fire Hydrant — REM FH
- Water Meter — PWM
- Relocate Water Meter — RWM
- Remove Water Meter — REM WM
- Water Pump Station — PS(W)
- RPZ Backflow Preventer — PRPZ
- DCV Backflow Preventer — PBFP
- Relocate RPZ Backflow Preventer — RRPZ
- Relocate DCV Backflow Preventer — RBFP

PROPOSED SEWER SYMBOLS

- Gravity Sewer Line (Sized as Shown) — 12" SS
- Force Main Sewer Line (Sized as Shown) — 12" FSS
- Manhoe (Sized per Note)
- Sewer Pump Station — PS(SS)

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Telephone Pedestal — TEL PED
- Utility Line by Others (Type as Shown) — PROP O/H POW LINES
- Trenchless Installation — 12" TL INSTALL
- Encasement by Open Cut — 24" ENCAS BY OC
- Encasement — 24" ENCASEMENT
- Thrust Block
- Air Release Valve — AR
- Utility Vault — UV
- Concrete Pier — CP
- Steel Pier — SP
- Plan Note — NOTE
- Pay Item Note — PAY ITEM

EXISTING UTILITIES SYMBOLS

- Power Pole
- Telephone Pole
- Joint Use Pole
- Utility Pole
- Utility Pole with Base
- H-Frame Pole
- Power Transmission Line Tower
- Water Manhole
- Power Manhole
- Telephone Manhole
- Sanitary Sewer Manhole
- Hand Hole for Cable
- Power Transformer
- Telephone Pedestal
- CATV Pedestal
- Gas Valve
- Gas Meter
- Located Miscellaneous Utility Object
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.
- *Underground Power Line — 12" TL INSTALL
- *Underground Telephone Cable — 12" TL INSTALL
- *Underground Telephone Conduit — 12" TL INSTALL
- *Underground Fiber Optics Telephone Cable — 12" TL INSTALL
- *Underground TV Cable — 12" TL INSTALL
- *Underground Fiber Optics TV Cable — 12" TL INSTALL
- *Underground Gas Pipeline — 12" TL INSTALL
- Aboveground Gas Pipeline — A/G Gas
- *Underground Water Line — 12" TL INSTALL
- Aboveground Water Line — A/G Water
- *Underground Gravity Sanitary Sewer Line — SS
- Aboveground Gravity Sanitary Sewer Line — A/G Sanitary Sewer
- *Underground SS Forced Main Line — 12" TL INSTALL
- Underground Unknown Utility Line — 12" TL INSTALL
- SUE Test Hole
- Water Meter
- Water Valve
- Fire Hydrant
- Sanitary Sewer Cleanout

*For Existing Utilities

- Utility Line Drawn from Record (Type as Shown) — 12" TL INSTALL
- Designated Utility Line (Type as Shown)

$$SYSTIME$$
$$SYSLEVEL$$
$$USERNAME$$
$$DGN$$

REV: 2/1/2012

5/14/99

UTILITY CONSTRUCTION

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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UC-3

DESIGNED BY:	ARH
DRAWN BY:	ACB
CHECKED BY:	TPBC
APPROVED BY:	ARH
REVISED: 06/19/2026	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 048011 ANTHONY R. HADJIMICHAEL
6/21/24

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S (THE DEPARTMENT) "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2024.

2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO HOLLY SPRINGS PUBLIC UTILITIES DEPARTMENT.

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.

4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.

5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.

8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.

9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

10. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS.

11. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER WITH 18" MIN. VERTICAL SEPARATION REQUIRED.

12. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE HOLLY SPRINGS PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.

13. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE HOLLY SPRINGS PUBLIC UTILITIES DEPARTMENT.

14. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.

PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE SHALL BE MJ DIP OF THE SAME PRESSURE CLASS AND THICKNESS AS THE EXISTING WATER LINE. UNLESS OTHERWISE SHOWN ON HOLLY SPRINGS TYPICAL DETAILS. I.E. SEE HS635

2. ALL PIPE JOINTS AND FITTINGS SHALL BE RESTRAINED WITH RESTRAINED JOINTS.

3. CONTRACTOR SHALL ENSURE THAT THE CONNECTION BETWEEN EXISTING AND PROPOSED WATER LINE SHALL BE AT TIMES MOST CONVENIENT TO THE PUBLIC AND UTILITY OWNER.

4. CONTRACTOR SHALL COORDINATE WITH THE HOLLY SPRINGS PUBLIC UTILITIES DEPARTMENT STAFF 72 HOURS PRIOR TO THE SHUTDOWN OF THE EXISTING WATER LINE.

5. CONTRACTOR SHALL REMOVE EXISTING 16" & 12" WATER LINE AS NECESSARY TO MAKE CONNECTION WITH THE NEW WATER LINE.

6. CONTRACTOR SHALL PLACE FOUNDATION CONDITIONING MATERIALS AND GEOTEXTILE IN ALL PROPOSED WATERLINE TRENCHES.

7. CONTRACTOR AND HOLLY SPRINGS WATER WILL EXCHANGE ALL NECESSARY CONTACTS / PHONE NUMBERS AT THE PRE CONSTRUCTION CONFERENCE.

8. UPON EXPOSING ANY OF HOLLY SPRINGS WATER'S ASSETS, CONTRACTOR SHALL IMMEDIATELY NOTIFY HOLLY SPRINGS WATER ASSET MANAGEMENT TO PERFORM CONDITION ASSESSMENT OF THE ASSET WHILE EXPOSED.

9. CONTRACTOR SHALL PROVIDE A 2-DAY NOTIFICATION TO HOLLY SPRINGS WATER PRIOR TO ANYTIME CONTRACTOR WILL EXCAVATE WITHIN 10 FEET OF ANY HOLLY SPRINGS WATER MAIN.

10. ALL NEW WATER INFRASTRUCTURE SHALL BE IN COMPLIANCE WITH THE HOLLY SPRINGS PUBLIC UTILITIES HANDBOOK.

11. WATER LINE ASSUMED TO BE 3' BELOW GRADE, CONTRACTOR TO VERIFY DEPTH OF WATER MAIN FOR SERVICE CONNECTIONS.

12. CONTRACTOR TO VERIFY SERVICE LINE SIZES FOR CONNECTION.

$$$$$$SYSTIME$$$$$$
$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

5/14/99

PROJECT TYPICAL DETAILS

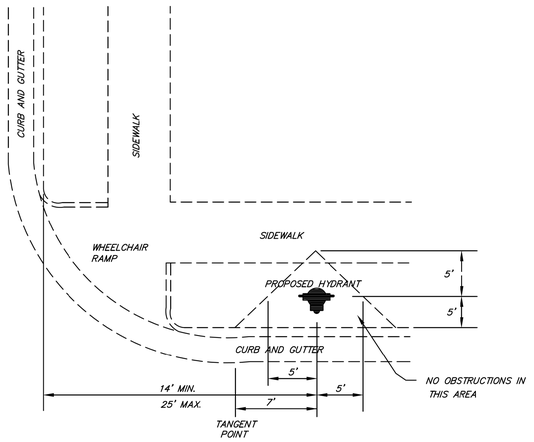
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2610 WYCLIFF ROAD
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NC COA No. P-0529

DRMP
DRMP, INC.
5555 FARRINGDON PLACE
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NC LICENSE NO. P-1324 (919) 872-0115

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UC-3A
DESIGNED BY: EPH	
DRAWN BY: ACB	
CHECKED BY: TPBC	
APPROVED BY: EPH	
REVISED: 06/19/2026	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL SEAL 048011 ENGINEER AMIR R. HADJMIRI 6/19/26

UTILITY CONSTRUCTION



NOTES:

1. LOCATION SHOULD BE COORDINATED WITH NCDOT ALONG STATE MAINTAINED ROADWAYS.
2. HYDRANTS NOT TO BE LOCATED IN RADIUS.

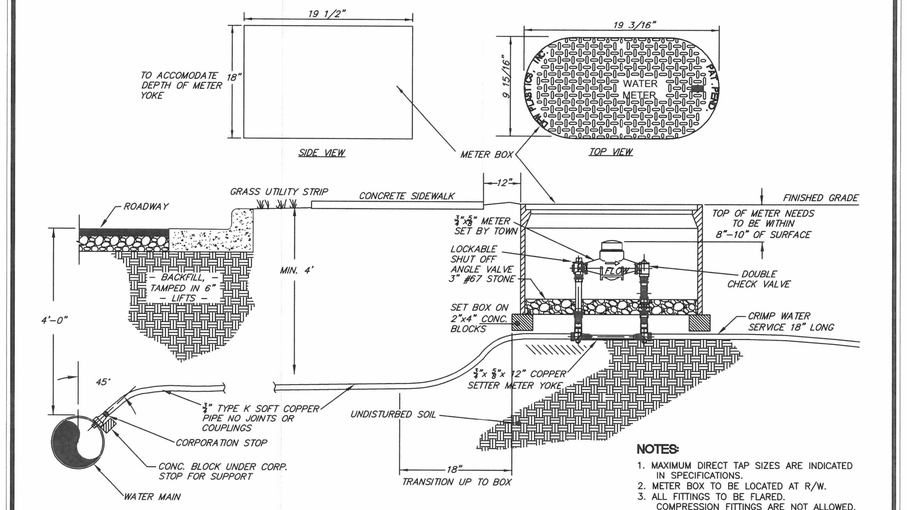
DRAWING NOT TO SCALE

STANDARD HYDRANT LOCATION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS613**

DATE	REVISIONS
11/9/21	



NOTES:

1. MAXIMUM DIRECT TAP SIZES ARE INDICATED IN SPECIFICATIONS.
2. METER BOX TO BE LOCATED AT R/W.
3. ALL FITTINGS TO BE FLARED. COMPRESSION FITTINGS ARE NOT ALLOWED.
4. ALL ¾"x¾" WATER METERS TO BE SUPPLIED BY TOWN.
5. METER TO READ IN 100's OF GALLONS.

NOTE:
CARRY WASHED STONE UNDER AND AROUND PIPE TO PROTECT CORPORATION STOP

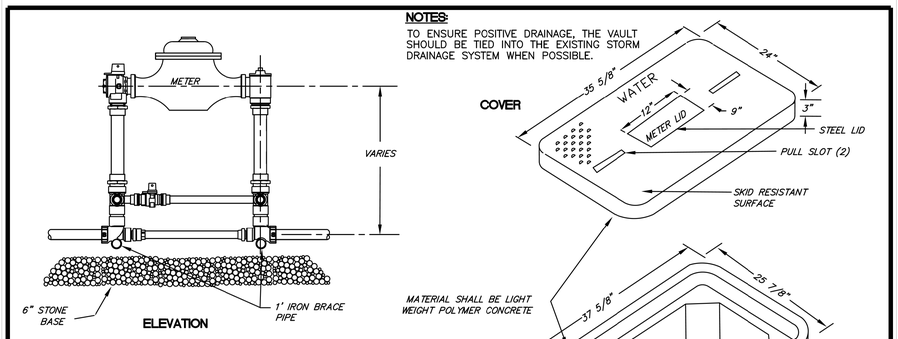
DRAWING NOT TO SCALE

STANDARD 3/4" WATER SERVICE

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS615**

DATE	REVISIONS
11/2/20	



NOTES:
TO ENSURE POSITIVE DRAINAGE, THE VAULT SHOULD BE TIED INTO THE EXISTING STORM DRAINAGE SYSTEM WHEN POSSIBLE.

NOTES:

1. PIPING TO BE BRASS & COPPER TUBING & SHALL BE EQUIPPED W/ANGLED CHECK VALVE OUTLETS & BY-PASS FLANGED VALVE OR BY-PASS FLANGED BALL VALVE INLETS AS FURNISHED BY FORD CUSTOMSETTERS, MUELLER OR OTHER APPROVED EQUAL.
2. PRECAST CONCRETE BOX WITH ALUMINUM ACCESS HATCH WILL BE AN ACCEPTABLE ALTERNATIVE WITH APPROVAL OF THE DIRECTOR OF ENGINEERING.

DIMENSIONS (INCHES)	
A	B
18 3/8"	30 1/8"

● BOX NOT TRAFFIC LOADED

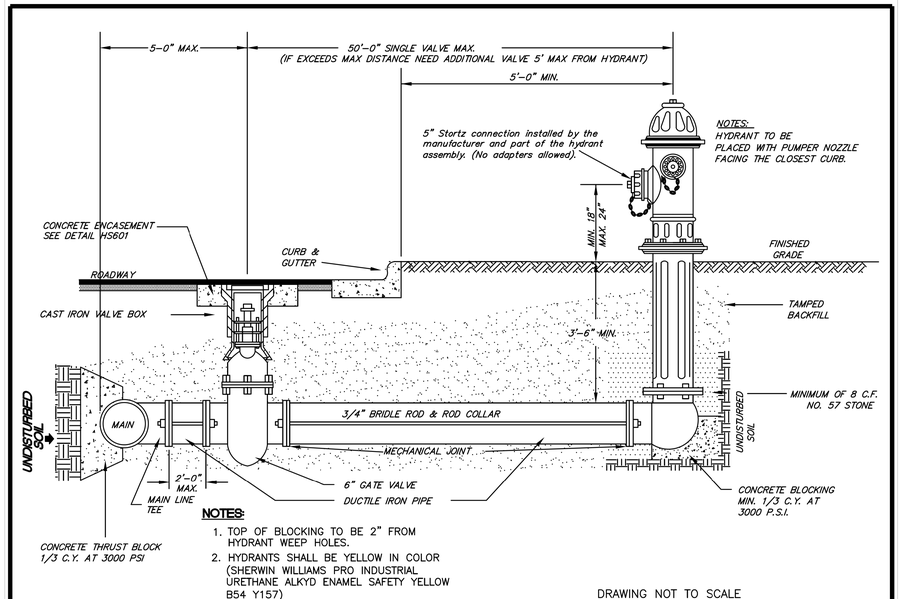
DRAWING NOT TO SCALE

STANDARD 1-1/2" METER INSTALLATION AND VAULT

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS616**

DATE	REVISIONS
2/22/19	



NOTES:

1. TOP OF BLOCKING TO BE 2" FROM HYDRANT WEEP HOLES.
2. HYDRANTS SHALL BE YELLOW IN COLOR (SHERWIN WILLIAMS PRO INDUSTRIAL URETHANE ALKYD ENAMEL SAFETY YELLOW B54 Y157)

DRAWING NOT TO SCALE

STANDARD HYDRANT INSTALLATION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS622**

DATE	REVISIONS
11/9/21	

$$$$$$SYSTIME$$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$$

5/14/99

PROJECT TYPICAL DETAILS

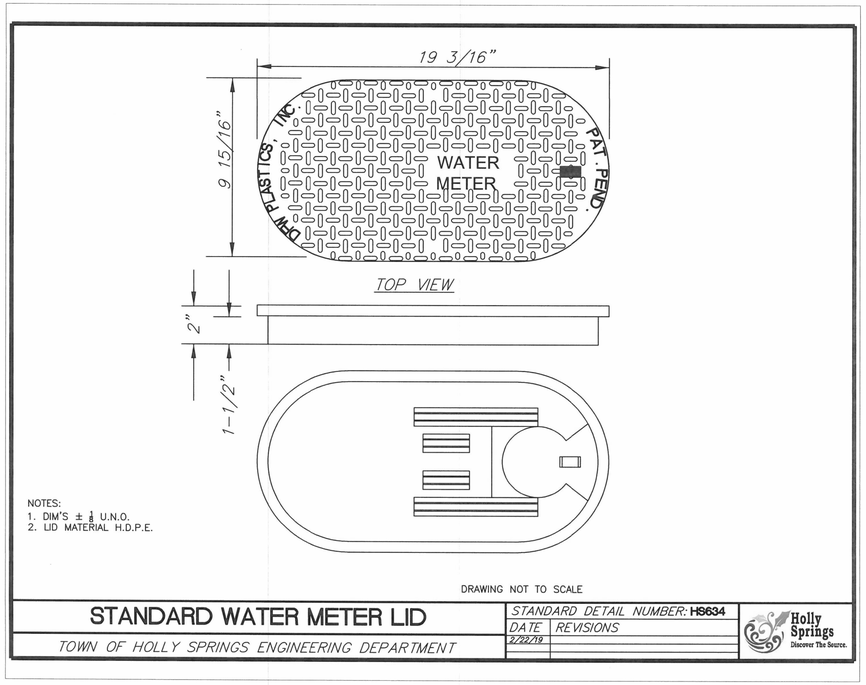
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NC COA No. P-0529

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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UC-3B
DESIGNED BY: EPH	
DRAWN BY: ACB	
CHECKED BY: TPBC	
APPROVED BY: EPH	
REVISED: 06/19/2026	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 048011 AMIR R. HADJMIRI
6/19/26

UTILITY CONSTRUCTION



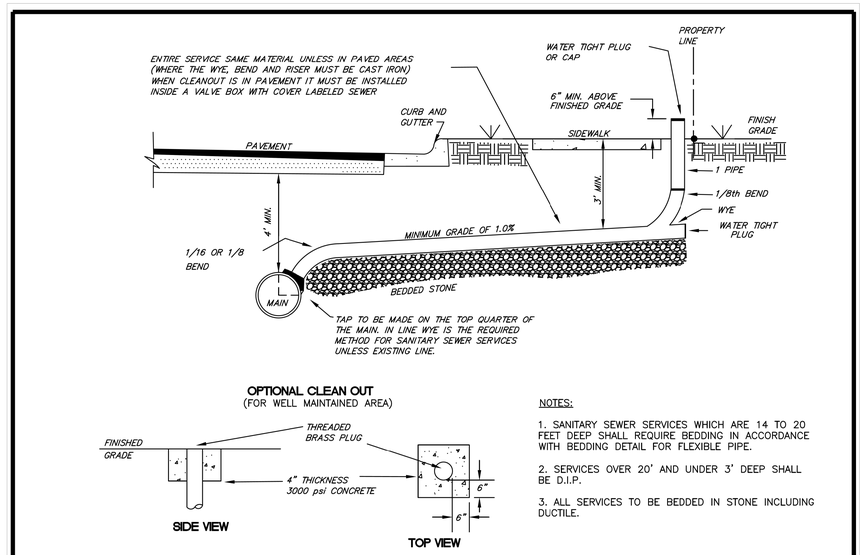
STANDARD WATER METER LID

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS634**

DATE	REVISIONS
2/22/19	

Holly Springs Discover The Source.



NOTES:

1. SANITARY SEWER SERVICES WHICH ARE 14 TO 20 FEET DEEP SHALL REQUIRE BEDDING IN ACCORDANCE WITH BEDDING DETAIL FOR FLEXIBLE PIPE.
2. SERVICES OVER 20' AND UNDER 3' DEEP SHALL BE D.I.P.
3. ALL SERVICES TO BE BEDDED IN STONE INCLUDING DUCTILE.

DRAWING NOT TO SCALE

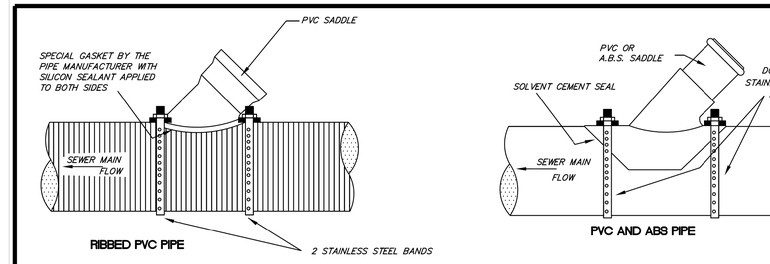
STANDARD SANITARY SEWER TAP AND SERVICE

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS715**

DATE	REVISIONS
6/30/19	

Holly Springs Discover The Source.



NOTES:

1. PVC SOLVENT CEMENT SHALL BE USED FOR PVC SADDLES.
2. ABS SOLVENT CEMENT SHALL BE USED FOR ABS SADDLES.
3. TRUSS SADDLES SHALL BE USED WITH TRUSS PIPE.

DRAWING NOT TO SCALE

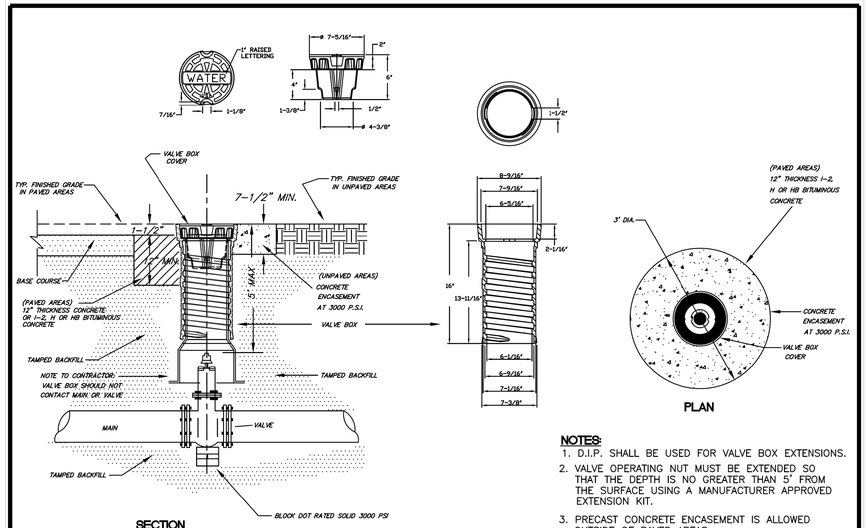
STANDARD SANITARY SEWER LATERAL CONNECTIONS FOR EXISTING LINES

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS717**

DATE	REVISIONS
7/24/09	

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NOTES:

1. D.I.P. SHALL BE USED FOR VALVE BOX EXTENSIONS.
2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5' FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
3. PRECAST CONCRETE ENCASEMENT IS ALLOWED OUTSIDE OF PAVED AREAS.
4. DOMESTIC MADE IN USA.

DRAWING NOT TO SCALE

STANDARD VALVE BOX INSTALLATION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS601**

DATE	REVISIONS
8/4/17	

Holly Springs Discover The Source.

$$$$$$SYSTIME$$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$$

5/14/99

PROJECT TYPICAL DETAILS

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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UC-3C
DESIGNED BY: EPH	
DRAWN BY: ACB	
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REVISED: 06/19/2026	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
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NORTH CAROLINA PROFESSIONAL SEAL 048011 ENGINEER AMIR R. HADJMIRI
6/19/26

UTILITY CONSTRUCTION

SPECIFICATION TIME (min-sec) REQUIRED FOR PRESSURE DROP FROM 3-1/2 TO 2-1/2 PSIG WHEN TESTING ONE PIPE DIAMETER ONLY

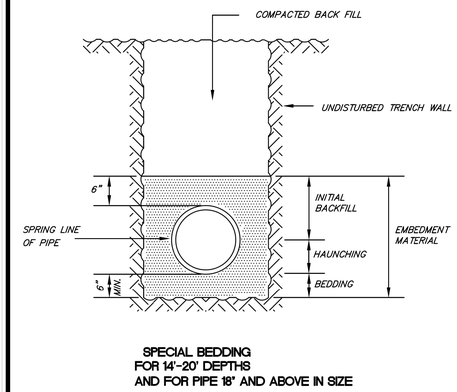
LENGTH OF LINE, FEET	PIPE DIAMETER, INCHES								
	4	6	8	10	12	15	18	21	24
25	0:04	0:10	0:18	0:28	0:40	1:02	1:29	2:01	2:38
50	0:09	0:20	0:35	0:55	1:19	2:04	2:58	4:03	5:17
75	0:13	0:30	0:53	1:23	1:59	3:06	4:27	6:04	7:55
100	0:18	0:40	1:10	1:50	2:38	4:08	5:56	8:05	10:34
125	0:22	0:50	1:28	2:18	3:18	5:09	7:26	9:55	11:20
150	0:26	0:59	1:46	2:45	3:58	6:11	8:30	|	|
175	0:31	1:09	2:03	3:13	4:37	7:05	|	|	|
200	0:35	1:19	2:21	3:40	5:17	|	|	|	12:06
225	0:40	1:29	2:38	4:08	5:40	|	|	10:25	13:36
250	0:44	1:39	2:56	4:35	|	|	8:31	11:35	15:07
275	0:48	1:49	3:14	4:43	|	|	9:21	12:44	16:38
300	0:53	1:59	3:31	|	|	|	10:12	13:53	18:09
350	1:02	2:19	3:47	|	|	8:16	11:54	16:12	21:10
400	1:10	2:38	|	|	6:03	9:27	13:36	18:31	24:12
450	1:19	2:50	|	|	6:48	10:38	15:19	20:50	27:13
500	1:28	|	|	5:14	7:34	11:49	17:01	23:09	30:14

STANDARD AIR TEST TABLE

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS719

DATE	REVISIONS
8/30/19	



SPECIAL BEDDING FOR 14'-20' DEPTHS AND FOR PIPE 18" AND ABOVE IN SIZE

STANDARD BEDDING FOR 3' TO 14' DEPTHS

NOTES:

1. EMBEDMENT MATERIAL MUST BE CLASS I (NO. 67 OR NO. 78M WASHED STONE IS TYPICALLY USED).
2. EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY FOR CLASS I MATERIAL.
3. ALL SANITARY SEWER LINES LESS THAN 3' AND OVER 20 FEET IN DEPTH MUST BE D.I.P.

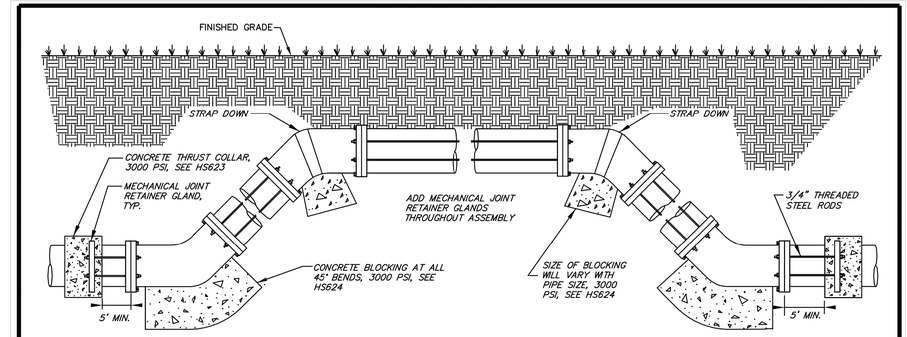
DRAWING NOT TO SCALE

BEDDING FOR FLEXIBLE AND SEMI-RIGID SANITARY SEWER PIPE

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS703

DATE	REVISIONS
7/24/09	



ROD REQUIREMENTS

SIZE OF 45° BEND	STATIC THRUST IN POUNDS	NUMBER OF RODS REQUIRED
6"	4,328	2
8"	7,694	4
12"	17,312	4
16"	30,779	8
24"	69,252	8

NOTES:
1. VERTICAL BENDS ARE NOT PERMITTED UNLESS OTHERWISE APPROVED BY TOHS DEVELOPMENT INSPECTOR.
2. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT BENDS.
4. RESTRAINED MECHANICAL GLANDS TO BE USED AT ALL FITTINGS.
5. MUST USE DUCTILE IRON EYE BOLTS WHERE NECESSARY.
6. 3' MINIMUM COVER MUST BE MAINTAINED ON ALL WATER MAINS

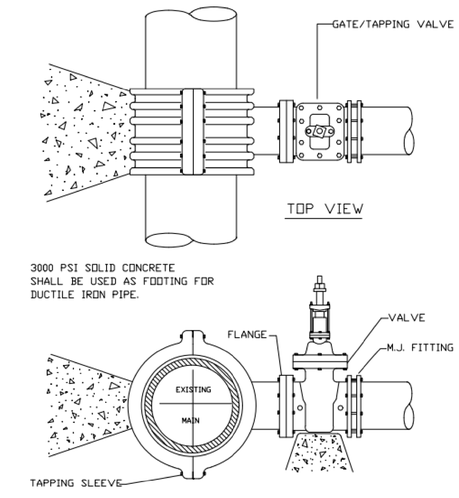
DRAWING NOT TO SCALE

STANDARD VERTICAL BEND

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS635

DATE	REVISIONS
6/27/23	



NOTES:
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.

DRAWING NOT TO SCALE

4" – 24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS628

DATE	REVISIONS
8/30/19	

$$$$$$SYSTIME$$$$$$
$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$$

Dewberry
2610 WYCLIFF ROAD
SUITE 300
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. P-0509

DRMP
DRMP, INC.
5808 FAIRVIEW PLACE
RALEIGH, NC 27609
NC LICENSE NO. P-1524 (919) 872-5115

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UC-4

DESIGNED BY: ARH
DRAWN BY: ACB
CHECKED BY: TPBC
APPROVED BY: ARH
REVISED: 06/19/2026

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES ENGINEERING SEC.
PHONE:(919)707-6690
FAX:(919)250-4151

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 048011 6/19/26 ENGINEER ARTHUR R. HADJIMARY

UTILITY CONSTRUCTION PLANS ONLY

GRAPHIC SCALE
30 15 0 30 60
HORIZ.

UTILITY CONSTRUCTION

THIS SHEET CORRESPONDS TO RDY. SHEET 4

NAD 83/2011

RELOCATE WATER METER
PROP 42 LF 3/4" WATER SERVICE LINE
RELOCATE WATER METER
PROP 37 LF 3/4" WATER SERVICE LINE
RELOCATE FIRE HYDRANT
STA 31+17 OFF. 60.40'
SEE FIRE HYDRANT
DETAILS HS613 & HS622
PROP 34 LF FIRE HYDRANT LEG
PROP 6" TAPPING SLEEVE AND VALVE
EXISTING FIRE HYDRANT TO BE RELOCATED
EXISTING 12" WATER MAIN
PROP 38 LF 4" SANITARY GRAVITY SEWER
RECONSTRUCT MANHOLE
RAISE RIM ELEV. TO 413.40'
SANITARY SEWER CLEAN-OUT
RELOCATE WATER METER
PROP 65 LF 3/4" WATER SERVICE LINE
SANITARY SEWER CLEAN-OUT
PROP 36 LF 4" SANITARY GRAVITY SEWER
RELOCATE WATER METER
PROP 64 LF 3/4" WATER SERVICE LINE
PROP 65 LF 3/4" WATER SERVICE LINE
RELOCATE WATER METER
PROP 40 LF 3/4" WATER SERVICE LINE
SANITARY SEWER CLEAN-OUT
PROP 72 LF 4" SANITARY GRAVITY SEWER
PROP 71 LF 4" SANITARY GRAVITY SEWER
RELOCATE FIRE HYDRANT
STA 35+23 OFF. 60.28'
SEE FIRE HYDRANT
DETAILS HS613 & HS622
PROP 40 LF FIRE HYDRANT LEG
EXISTING FIRE HYDRANT TO BE RELOCATED
SANITARY SEWER CLEAN-OUT
RELOCATE WATER METER
PROP 36 LF 4" SANITARY GRAVITY SEWER
SANITARY SEWER CLEAN-OUT
PROP 66 LF 3/4" WATER SERVICE LINE
RELOCATE WATER METER
SANITARY SEWER CLEAN-OUT
SANITARY SEWER CLEAN-OUT
RELOCATE WATER METER
PROP 45 LF 3/4" WATER SERVICE LINE
SANITARY SEWER CLEAN-OUT
RELOCATE WATER METER
PROP 43 LF 3/4" WATER SERVICE LINE
PROP 6" TAPPING SLEEVE AND VALVE
PROP 35 LF 4" SANITARY GRAVITY SEWER
RELOCATE WATER METER
PROP 63 LF 3/4" WATER SERVICE LINE
SANITARY SEWER CLEAN-OUT
PROP 33 LF 4" SANITARY GRAVITY SEWER
PROP 75 LF 4" SANITARY GRAVITY SEWER
PROP 32 LF 4" SANITARY GRAVITY SEWER
SANITARY SEWER CLEAN-OUT
RELOCATE WATER METER
PROP 60 LF 3/4" WATER SERVICE LINE
PROP 76 LF 4" SANITARY GRAVITY SEWER

-L- SUNSET LAKE ROAD (SR 1301)

SEE NOTE A THIS SHEET
SEE NOTE B THIS SHEET

MATCHLINE -L- STA. 37+85.00 SEE SHEET UC-5

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 200 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE:
1. CONTRACTOR TO ENSURE WATER MAIN REMAINS IN SERVICE DURING ALL WATER METER AND FIRE HYDRANT RELOCATIONS.

2. FOR HYDRANT RELOCATION:
–EXISTING HYDRANT LEG TO BE REMOVED FROM THE TEE AND THE TEE IS TO BE CAPPED.
–THE VALVE WILL BE CLOSED AND CONCRETE POURED INTO VALVE BOX TO PREVENT IT FROM BEING OPENED.

5/14/99

$$$$$$$SYSTIME$$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$$

5/14/99

Dewberry	2610 WYCLIFF ROAD SUITE 610 RALEIGH, NC 27607 PHONE: 919.881.0939 NC COA No. P-0509
DRMP	DRMP, INC. 5808 FAIRVIEW PLACE RALEIGH, NC 27609 NC LICENSE NO. F-1324 (919) 872-5115

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UC-5
DESIGNED BY: ARH	
DRAWN BY: ACB	
CHECKED BY: TPBC	
APPROVED BY: ARH	
REVISED: 06/19/2026	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL SEAL 048011 ENGINEER AMIR R. HADJMIR

GRAPHIC SCALE
30 15 0 30 60
HORIZ.

NAD 83/2011

UTILITY CONSTRUCTION

THIS SHEET CORRESPONDS TO RDY. SHEET 5

MATCHLINE –L– STA. 37+85.00
SEE SHEET UC-4

RELOCATE FIRE HYDRANT
STA 38+91 OFF. 60.26'
SEE FIRE HYDRANT
DETAILS HS613 & HS622

EXISTING FIRE HYDRANT TO BE RELOCATED

PROP 46 LF FIRE HYDRANT LEG

PROP 6" TAPPING SLEEVE AND VALVE

EXISTING 12" WATER MAIN

WATER METER TO REMAIN

PROP 28 LF 4" SANITARY GRAVITY SEWER

SANITARY SEWER CLEAN-OUT

PROP 61 LF 3/4" WATER SERVICE LINE

RELOCATE WATER METER

PROP 61 LF 3/4" WATER SERVICE LINE

RELOCATE WATER METER

SANITARY SEWER CLEAN-OUT

PROP 29 LF 4" SANITARY GRAVITY SEWER

–L– SUNSET LAKE ROAD (SR 1301)

NY HOLLY SPRINGS ROAD (SR 1152)

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 175 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

NOTE:
1. CONTRACTOR TO ENSURE WATER MAIN REMAINS IN SERVICE DURING ALL WATER METER AND FIRE HYDRANT RELOCATIONS.

2. FOR HYDRANT RELOCATION:
–EXISTING HYDRANT LEG TO BE REMOVED FROM THE TEE AND THE TEE IS TO BE CAPPED.
–THE VALVE WILL BE CLOSED AND CONCRETE POURED INTO VALVE BOX TO PREVENT IT FROM BEING OPENED.

$$$$$$$$SYSTIME$$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$$

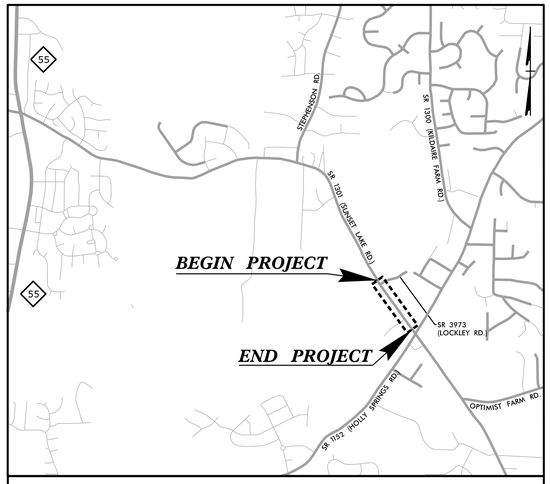
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09/08/25

TIP PROJECT: HL–0008D

CONTRACT: DE00409

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP N.T.S.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS
WAKE COUNTY

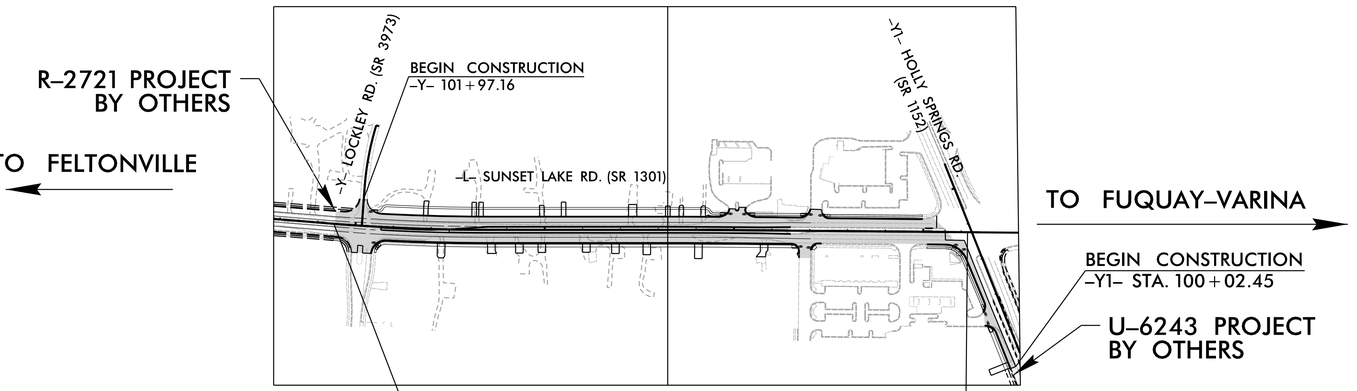
STATE PROJECT REFERENCE NO.	SHEET NO.
HL–0008D	UO–1

NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

LOCATION: SR 1301 (SUNSET LAKE ROAD) BETWEEN SR 1152 (HOLLY SPRINGS ROAD) & SR 3973 (LOCKLEY ROAD)

TYPE OF WORK: DISTRIBUTION POWER, COMMUNICATIONS, & GAS RELOCATION

NAD 83/NA 2011



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

30 15 0 30 60
PLANS

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION
UO–1	TITLE SHEET
UO–2 THRU UO–3	UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS

(A) POWER – DUKE
(B) FIBER – CHARTER
(C) FIBER – AT&T
(D) FIBER – VERIZON
(E) GAS – ENBRIDGE

Prepared In the Office of:
DRMP
ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS
DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
PHONE: 919-872-5115
www.drmp.com | NC License No. F-1524

UTILITY PROJECT ENGINEER

MIKAYLA M. LINDSEY, PE
SIGNATURE:

DIVISION OF HIGHWAYS
DIVISION 5
PROJECT DEVELOPMENT UNIT
2612 N. DUKE STREET
DURHAM, NC 27704
919–317–4700 FAX: 919–317–4710

SUSAN LANCASTER, PE — *TEAM LEAD*
CALEB WHITBY, PE — *PROJECT MANAGER*
DONALD W. PROPER — *DIV. UTILITIES ENGINEER*
JAMES SWINSON — *UTILITIES ENGINEER*

1/28/2026
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User: mlindsey

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DRMP INC.
5808 FAIRINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
www.drmp.com

PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UO-2
THIS SHEET CORRESPONDS TO	4

UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

REVISIONS

8/17/99

BEGIN CONSTRUCTION
-Y- STA. 101+97.16
TIE TO EXIST.

-Y- LOCKLEY ROAD (SR 3973)

-L- SUNSET LAKE ROAD (SR 1301)

BEGIN TIP PROJECT HL-0008D
-L- STA. 29+45.00

MATCHLINE -L- STA. 37+85.00 SEE SHEET UO-3

NAD 83/2011

EXISTING POLE TO BE REMOVED

CHARTER PROP. UG FACILITIES

EXISTING POLE TO BE REMOVED

EXISTING POLE TO BE REMOVED

PROP. DUKE AERIAL ROUTE
PROP. CHARTER AERIAL ROUTE
PROP. AT&T AERIAL ROUTE

EXISTING POLE TO BE REMOVED

AT&T LINES TO BE REMOVED

EXISTING POLE TO BE REMOVED

AT&T PROP. OH FACILITY

R-2721 PROJECT BY OTHERS

RELOCATE TV PEDESTAL

AT&T PROP. UG FACILITY

RETAIN AT&T HAND HOLE

CHARTER PROP. UG FACILITIES

RELOCATE AT&T HAND HOLE

EXISTING POLES TO BE REMOVED

EXISTING POLE TO BE REMOVED

REMOVE AT&T HAND HOLE

VERIZON PROP. UG FACILITIES

CHARTER PROP. UG FACILITIES

EXISTING POLES TO BE REMOVED

MISSING VERIZON HAND HOLE

EXISTING POLE TO BE REMOVED

RELOCATE TV PEDESTAL

JAMES AND EVELYN BREWINGTON
DB 3613 PG 948
BM 1967 PG 101

EMMA LEACH
DB 1952 PG 661
BM 1967 PG 101

APEX NORTH CAROLINA
DB 17872 PG 2468
BM 1967 PG 101

RUBY AND JAMES SIDNEY
DB 12108 PG 2082
BM 1967 PG 101

JAMES SIDNEY
DB 2940 PG 614
BM 1967 PG 101

JAMES AND ELLA SIDNEY
DB 2132 PG 699
BM 1967 PG 101

LEON AND LINDA BAKER
DB 2964 PG 711
BM 1967 PG 101

MICHAEL AND BRENDA JACKS(
DB 4222 PG 4
BM 1967 PG

WOODCREEK NEIGHBORHOOD ASSN
DB 13338 PG 1672
BM 2008 PG 1398

JENNIFER FAULK AND ANTHONY ARTIS
DB 17249 PG 2611
BM 2008 PG 1398

GRAHAM RAINES JR
DB 4113 PG 474
BM 1959 PG 167

ASCENT CAPITAL MANAGEMENT LLC
DB 18225 PG 2494
BM 1959 PG 167

MARK AND ARLENE MCDONALD
DB 8310 PG 265
BM 1967 PG 101

DALE HEMRICK AND STEVEN NORRIS
DB 15303 PG 1116
BM 1991 PG 825

GRADY AND DORETHA MCKEY
DB 4972 PG 217
BM 1991 PG 825

WAKE ACQUISITIONS LLC
DB 11628 PG 548
BM 1967 PG 101

DONALD WINSTON
DB 7396 PG 16
BM 1967 PG 101

DAVID CARLSON AND ELIZABETH CARLSON
DB 17389 PG 2311
BM 2008 PG 1398

8/22/2025
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User: RyanJubb

8/17/99

REVISIONS

DRMP

DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
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PROJECT REFERENCE NO.	SHEET NO.
HL-0008D	UO-3
THIS SHEET CORRESPONDS TO	5

UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

MATCHLINE -L- STA. 37+85.00
SEE SHEET UO-2

END TIP PROJECT HL-0008D
-L- STA. 46+07.40

NAD 83/2011

EXISTING POLE TO BE REMOVED

EXIST. ENBRIDGE LINE TO BE ABANDONED

PROP. ENBRIDGE GAS MAIN

MISSING VERIZON HAND HOLE

AT&T FACILITIES

EXISTING POLE TO BE REMOVED

REMOVE AT&T HAND HOLE

AT&T LINES TO BE REMOVED

MISSING VERIZON HAND HOLE

VERIZON PROP. UG FACILITIES

REMOVE AT&T PEDESTALS

CHARTER PROP. UG FACILITIES

EXISTING POLE TO BE REMOVED

PROP. DUKE AERIAL ROUTE
PROP. CHARTER AERIAL ROUTE
PROP. AT&T AERIAL ROUTE

-L- SUNSET LAKE ROAD (SR 1301)

-Y1- HOLLY SPRINGS ROAD (SR 1152)

EISENHOWER DRIVE

7 MICHAEL AND BRENDA JACKSON DB 4229 PG 443 BM 1967 PG 101

8 TRIVENI SANGAM LLC DB 17214 PG 914 BM 1967 PG 101

9 AMERICAN PROPERTIES HOLDINGS LLC DB 11189 PG 1527 BM 2011 PG 109

10 PARMINDER AND PARDEEP SANDHAR DB 16338 PG 908 BM 1967 PG 101 BM 2004 PG 446

VICTOR ERENBERG TRUSTEE DB 17203 PG 944 BM 2003 PG 666 BM 2004 PG 446

MICHAEL EDWARDS SUPREME CAR WASH INC DB 17313 PG 113 BM 2009 PG 941

26 SUNHOLLY LLC DB 9914 PG 190 BM 2004 PG 448

23 JOYCE WILLIAMS DB 8748 PG 564 BM 2004 PG 447

12 BRISTA LLC DB 15173 PG 1668 BM 1967 PG 101 BM 2004 PG 447

14 DONALD WINSTON DB 7396 PG 16 BM 1967 PG 101

8/22/2025
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User:RyanJubb

INDEX OF CROSS SECTION SHEETS

-L- SR 1301 (SUNSET LAKE ROAD)	X-2 THRU X-15
-Y1- SR 1152 (HOLLY SPRINGS ROAD)	X-16 THRU X-17

PROJECT NO.	SHEET NO.
HL-0008D	X-1

DRMP

DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
www.drmp.com

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CROSS-SECTION SUMMARY

PROJ. REFERENCE NO.	SHEET NO.
HL-0008D	X-1A

DRMP, INC.
5808 FARINGDON PLACE
RALEIGH, NC 27609
(919) 872-5115

NC LICENSE NO. F-1524
www.drmp.com

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

Station L	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
30+00.00	0	0
30+50.00	24	2
31+00.00	155	2
31+50.00	276	3
31+85.00	137	3
32+00.00	51	8
32+25.00	137	79
32+50.00	157	95
33+00.00	271	98
33+20.00	56	32
33+50.00	96	58
34+00.00	293	84
34+35.00	223	56
34+50.00	93	25
34+95.00	150	61
35+00.00	8	6
35+50.00	186	49
36+00.00	275	52
36+05.00	31	6
36+50.00	243	44
36+85.00	141	46
37+00.00	50	26
37+30.00	78	40
37+50.00	47	26
37+65.00	39	34
38+00.00	76	114
38+25.00	34	88
38+50.00	35	93
38+60.00	12	41
39+00.00	37	187
39+50.00	34	221
40+00.00	7	179
40+50.00	17	128
40+80.00	11	73
41+00.00	5	43
41+50.00	26	61
42+00.00	19	28
42+20.00	8	0
42+50.00	11	0
43+00.00	12	0
43+50.00	14	0
44+00.00	14	0
44+50.00	14	0
45+00.00	7	0
45+50.00	8	0
46+00.00	8	0

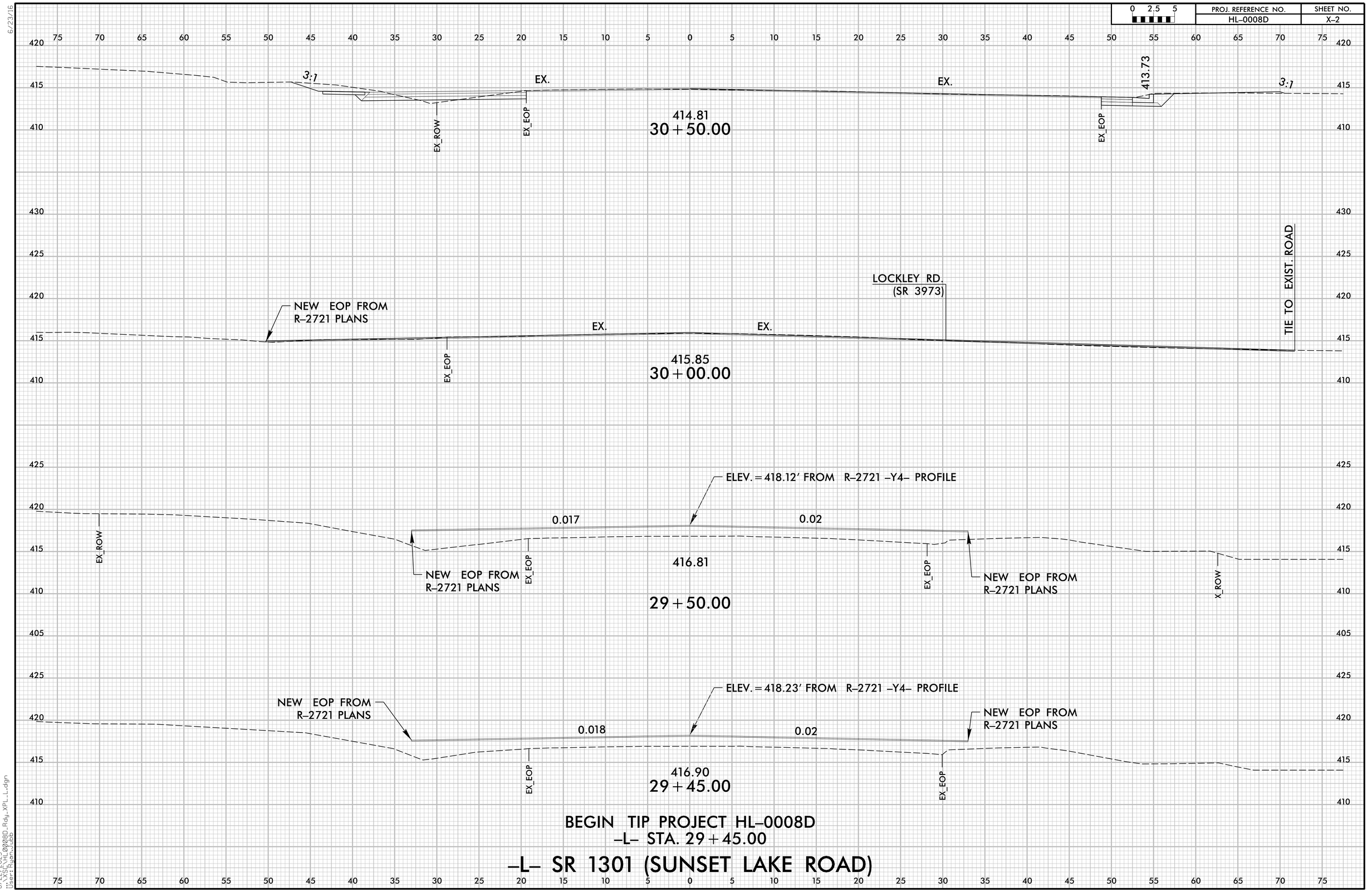
Station Y1	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)
99+50.00	0	0
100+00.00	0	0
100+50.00	3	63
101+00.00	7	124
101+50.00	4	61
102+00.00	7	0
102+50.00	14	0
103+00.00	0	0
103+50.00	0	0
104+00.00	0	0

Approximate quantities only. Shoulder borrow, fine grading, and clearing and grubbing will be paid for at the contract lump sum price for "Grading".

Earthwork quantities are calculated by the roadway designer. These earthwork quantities are based in part on subsurface data from the Geotechnical Engineering Unit.

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-2



BEGIN TIP PROJECT HL-0008D
-L- STA. 29+45.00

-L- SR 1301 (SUNSET LAKE ROAD)

8/22/2025
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User: RJohnJobb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-3

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

435 430 425 420 415 410 405

TIE TO EXIST. DRIVE

5'

0.250

0.160

0.020

0.020

412.31

3:1

EX_ROW

EX_EOP

412.40

31+85.00

EX_EOP

EX_ROW

420 415 410 405

3:1

3:1

3:1

410.56

0.020

0.020

412.80

3:1

EX_ROW

EX_EOP

412.99

31+50.00

EX_EOP

EX_ROW

420 415 410 405

3:1

3:1

3:1

411.21

0.020

0.020

413.45

3:1

EX_ROW

EX_EOP

413.94

31+00.00

EX_EOP

EX_ROW

420 415 410 405

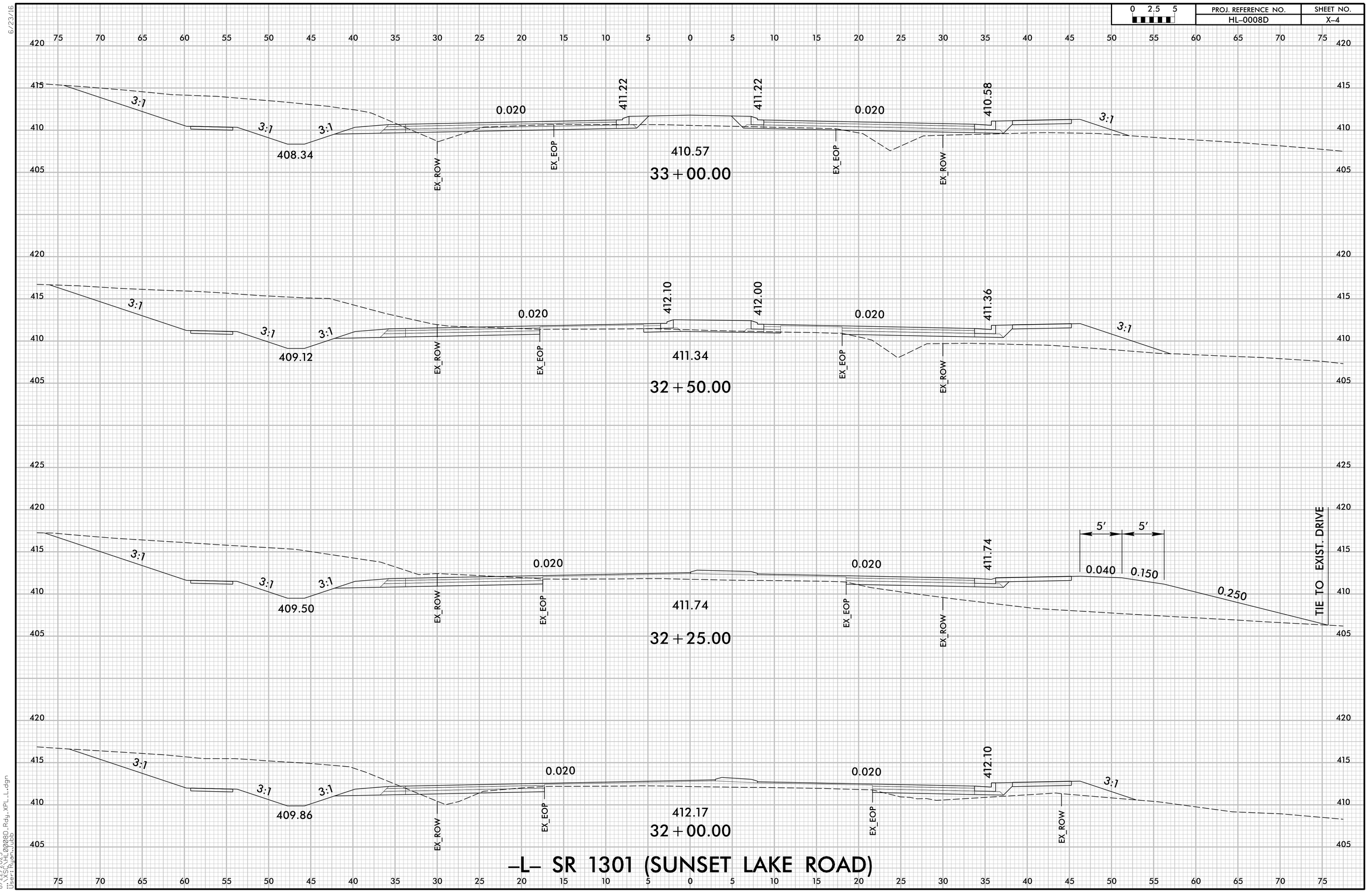
-L- SR 1301 (SUNSET LAKE ROAD)

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

8/22/2025
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User: RJohnJobb

6/23/16

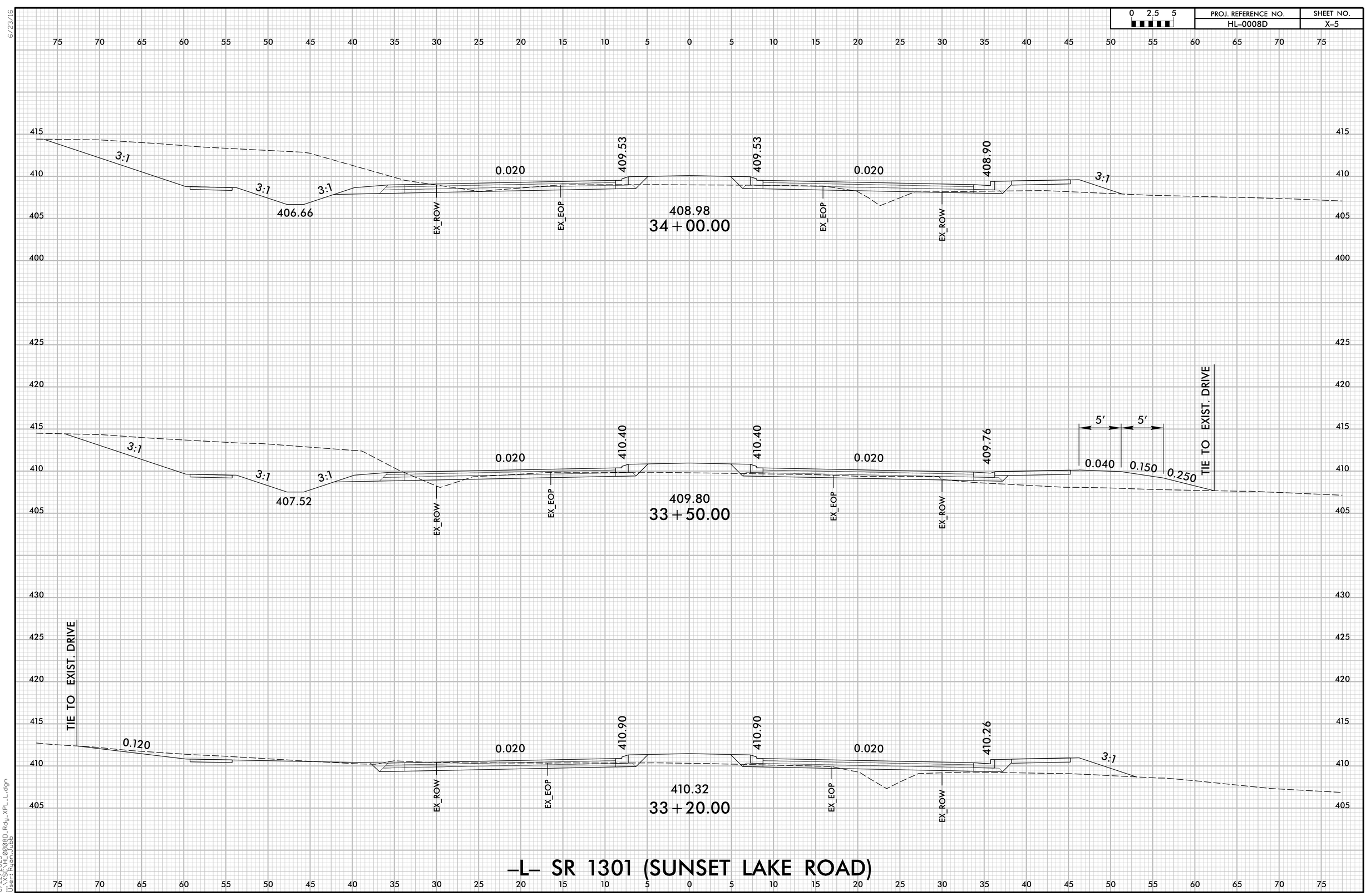
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-4



8/22/2025
...\XS\HL0008D_Rdy_XPL_L.dgn
User:RyanJobb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-5



8/22/2025
...\XSC\HL0008D_Rdy_XPL_L.dgn
User:Ryan.Jobb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-6

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

425 420 415 410 405 400

TIE TO EXIST. DRIVE

0.120

0.020

407.85

407.85

0.020

407.22

5′ 5′

0.040 0.150 0.25

TIE TO EXIST. DRIVE

EX_ROW EX_EOP EX_EOP EX_ROW

407.26

34+95.00

415 410 405 400

3:1 3:1 3:1 3:1

405.77

0.020

408.65

408.65

0.020

408.01

EX_ROW EX_EOP EX_EOP EX_ROW

408.05

34+50.00

425 420 415 410 405 400

3:1 3:1 3:1

406.04

0.020

408.91

408.91

0.020

408.28

5′ 5′

0.040 0.150 0.250

TIE TO EXIST. DRIVE

EX_ROW EX_EOP EX_EOP EX_ROW

408.34

34+35.00

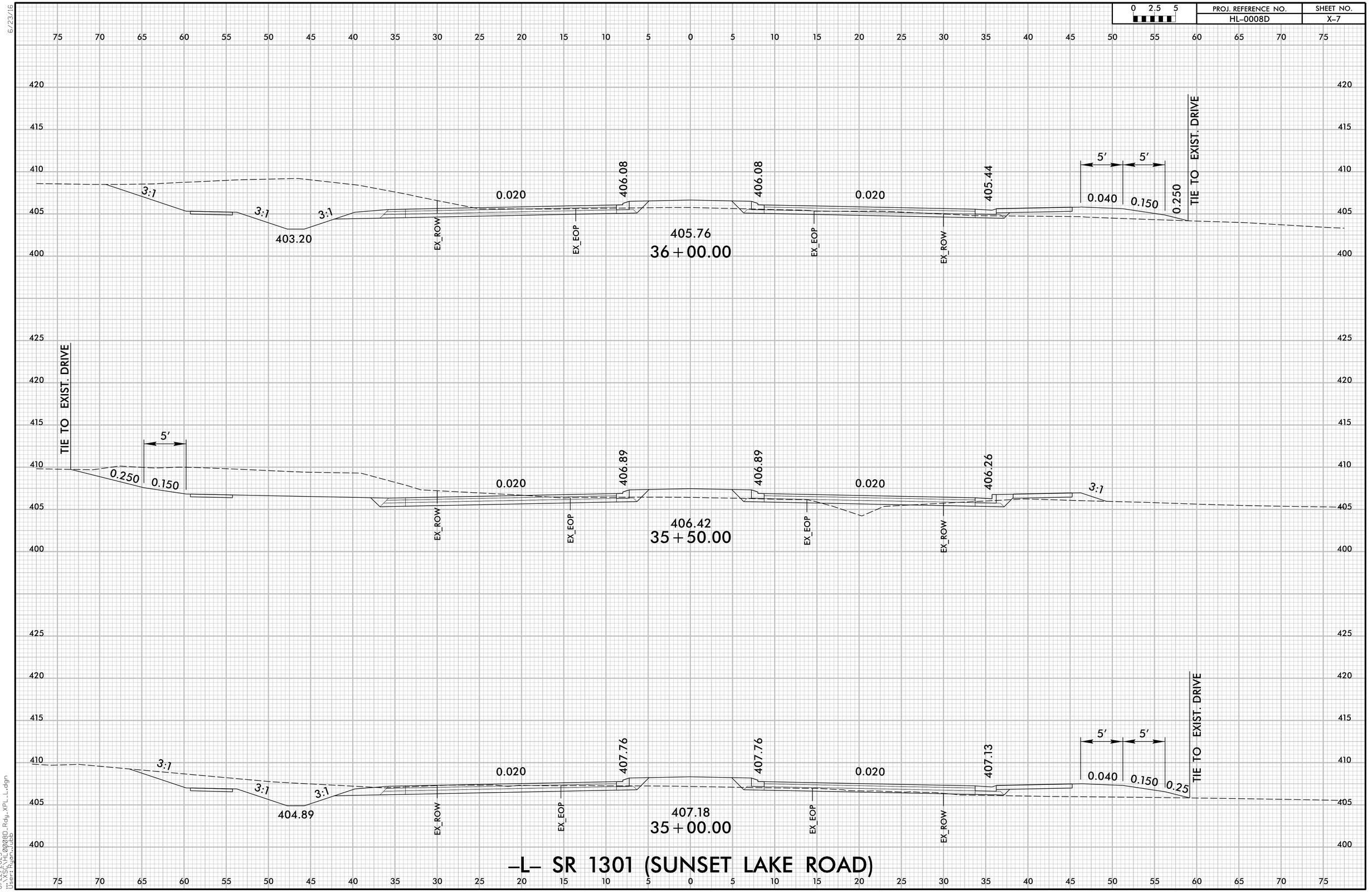
–L– SR 1301 (SUNSET LAKE ROAD)

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

8/22/2025
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User: Ryan.Jobb

6/23/16

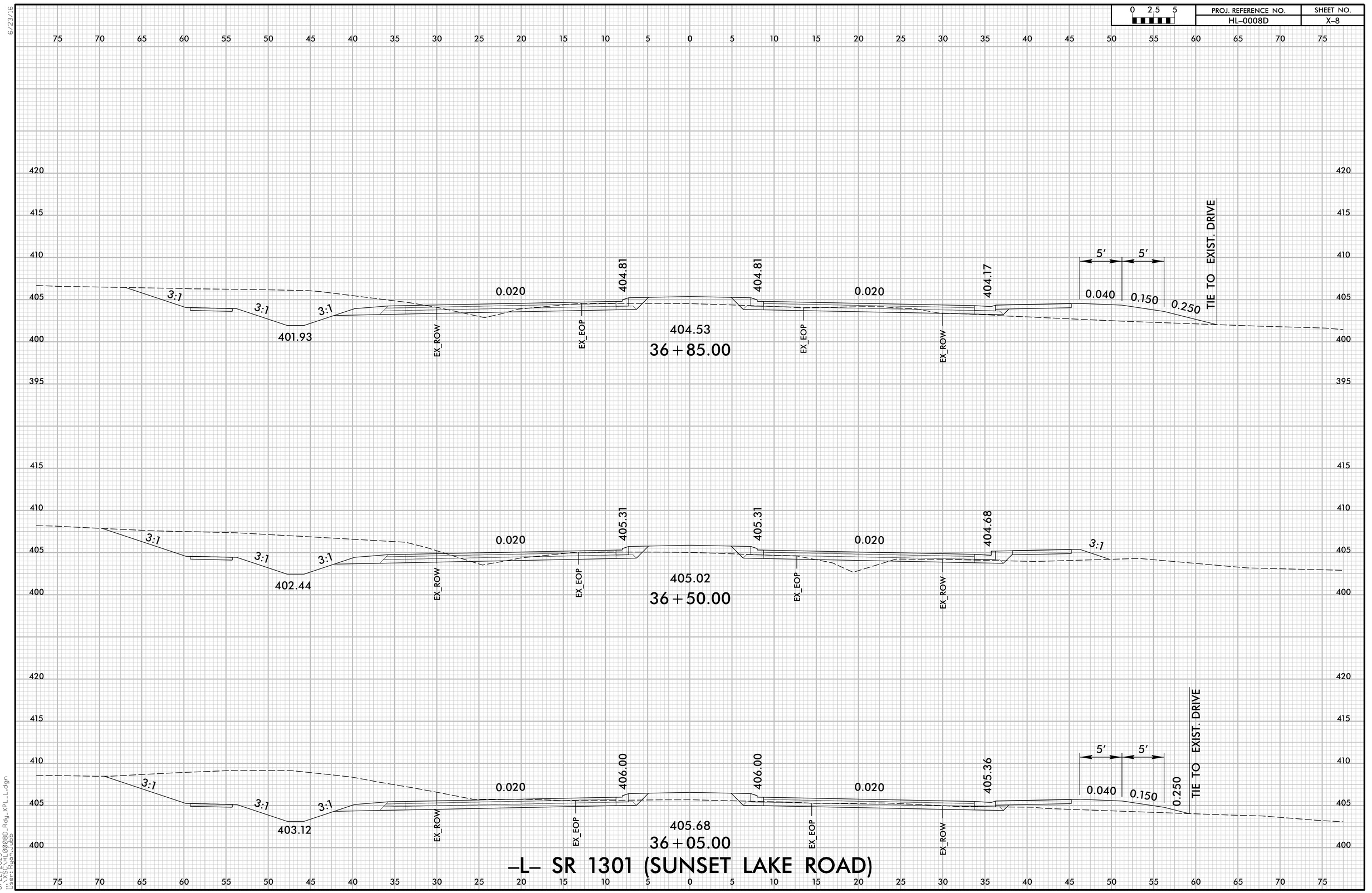
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-7



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...\XSC\HL0008D_Rdy_XPL_L.dgn
User:Ryan.Jobb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-8



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User: RyanJobb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-9

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

410 405 400 395

3:1 3:1 3:1 3:1

401.07

0.020 0.020

403.94 403.94 403.31

EX_ROW EX_EOP EX_EOP EX_ROW

403.63

37+50.00

420 415 410 405 400 395

TIE TO EXIST. DRIVE

0.120

0.020 0.020

404.20 404.20 403.56

EX_ROW EX_EOP EX_EOP EX_ROW

403.90

37+30.00

410 405 400 395

3:1 3:1 3:1 3:1

401.73

0.020 0.020

404.60 404.60 403.96

EX_ROW EX_EOP EX_EOP EX_ROW

404.33

37+00.00

–L– SR 1301 (SUNSET LAKE ROAD)

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

8/22/2025
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User:RyanJabb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-10

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

420 415 410 405 400 395

TIE TO EXIST. DRIVE
0.06
0.020
EX_ROW
0.020
EX_EOP
403.05
402.54
38+25.00
403.05
EX_EOP
0.020
EX_ROW
402.42
3:1

410 405 400 395

3:1
3:1
3:1
400.46
0.020
EX_ROW
403.34
EX_EOP
402.88
38+00.00
403.34
EX_EOP
0.020
EX_ROW
402.70
3:1

420 415 410 405 400 395

3:1
3:1
3:1
400.88
0.020
EX_ROW
403.75
EX_EOP
403.41
37+65.00
403.75
EX_EOP
0.020
EX_ROW
403.12
5′
5′
0.040
0.150
0.250
TIE TO EXIST. DRIVE

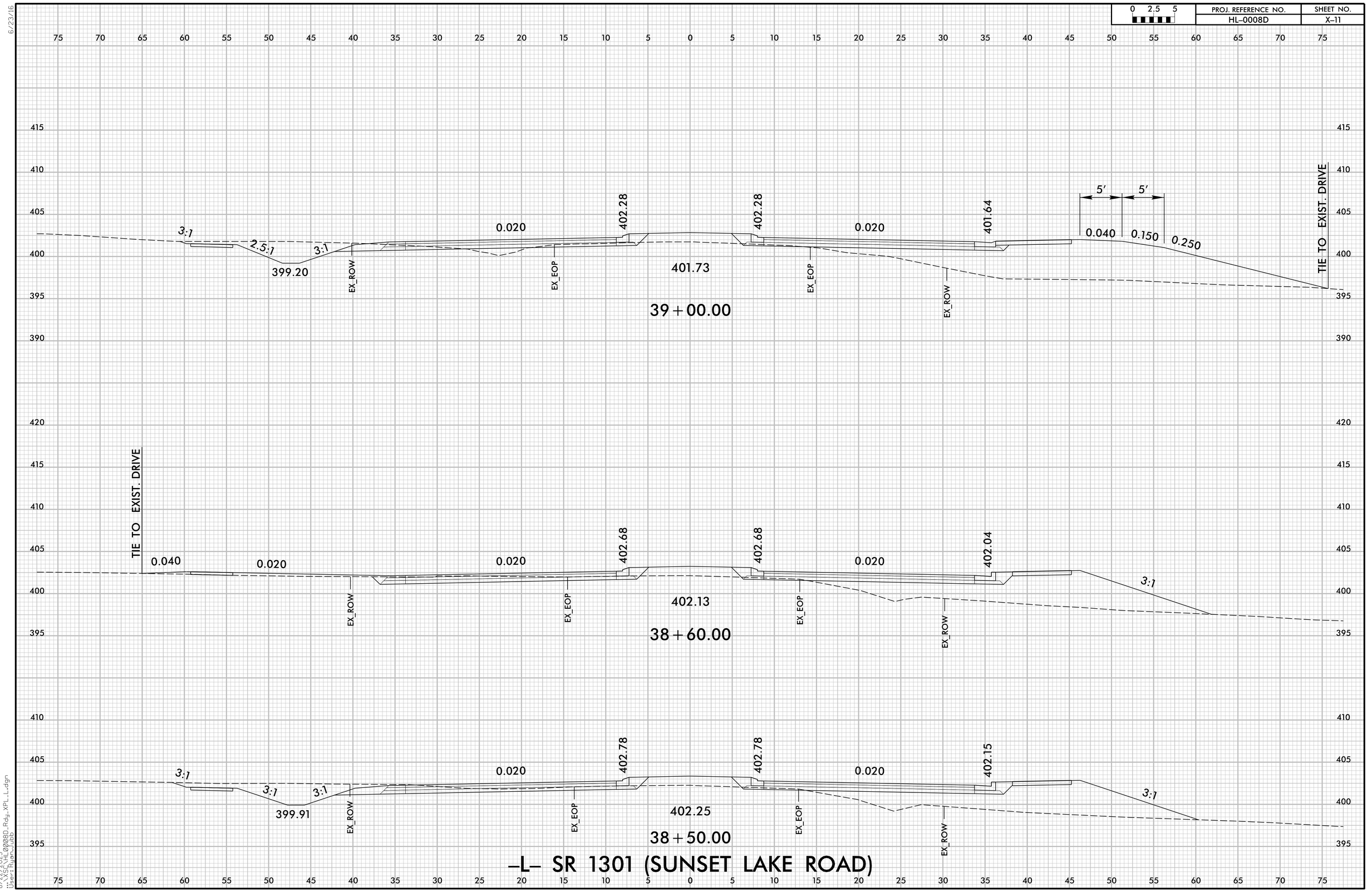
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

–L– SR 1301 (SUNSET LAKE ROAD)

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::\XS\HL0008D_Rdy_XPL_L.dgn
User:RyanJobb

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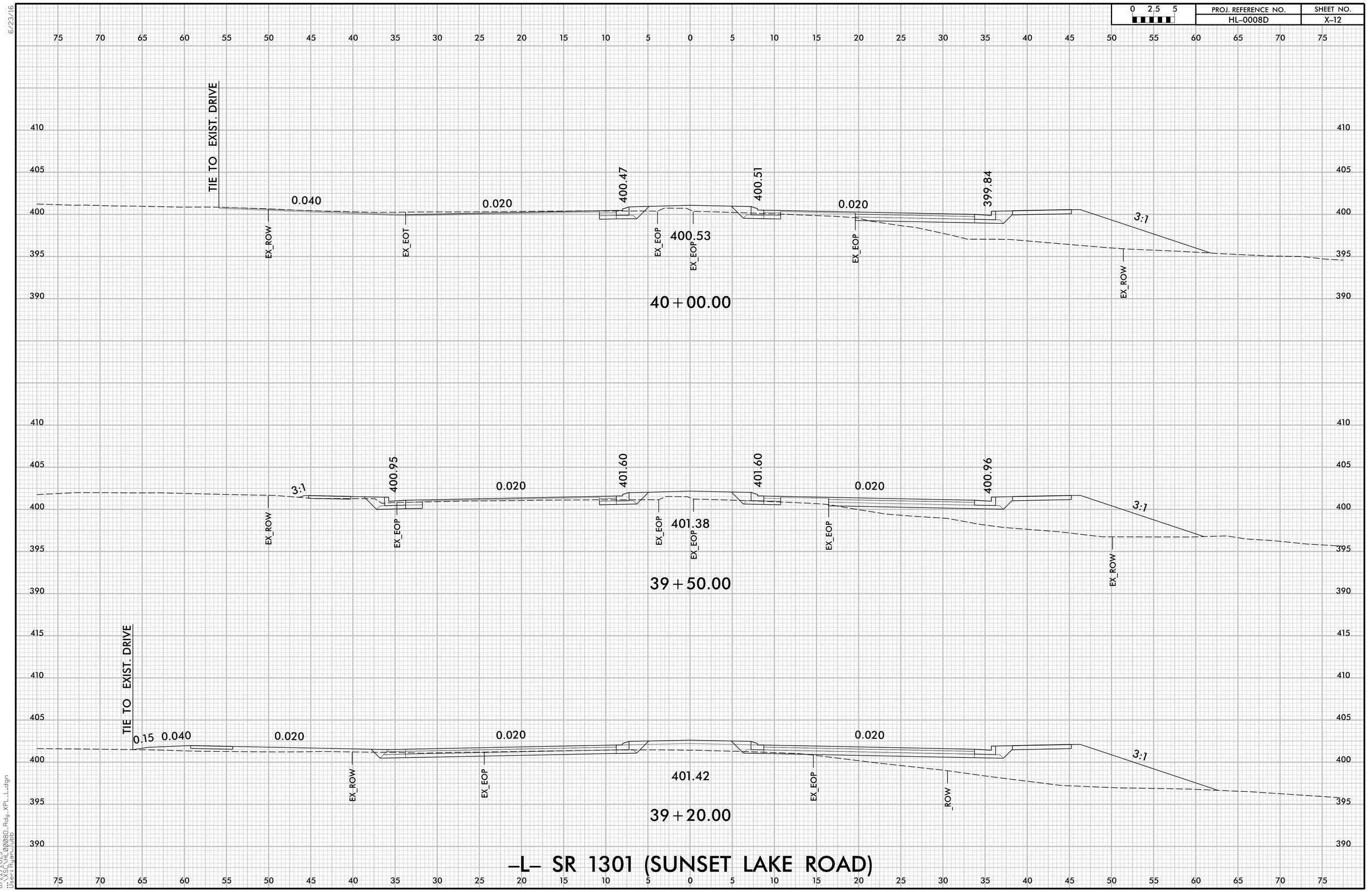
0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-11



8/22/2025
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User:RyanJobb

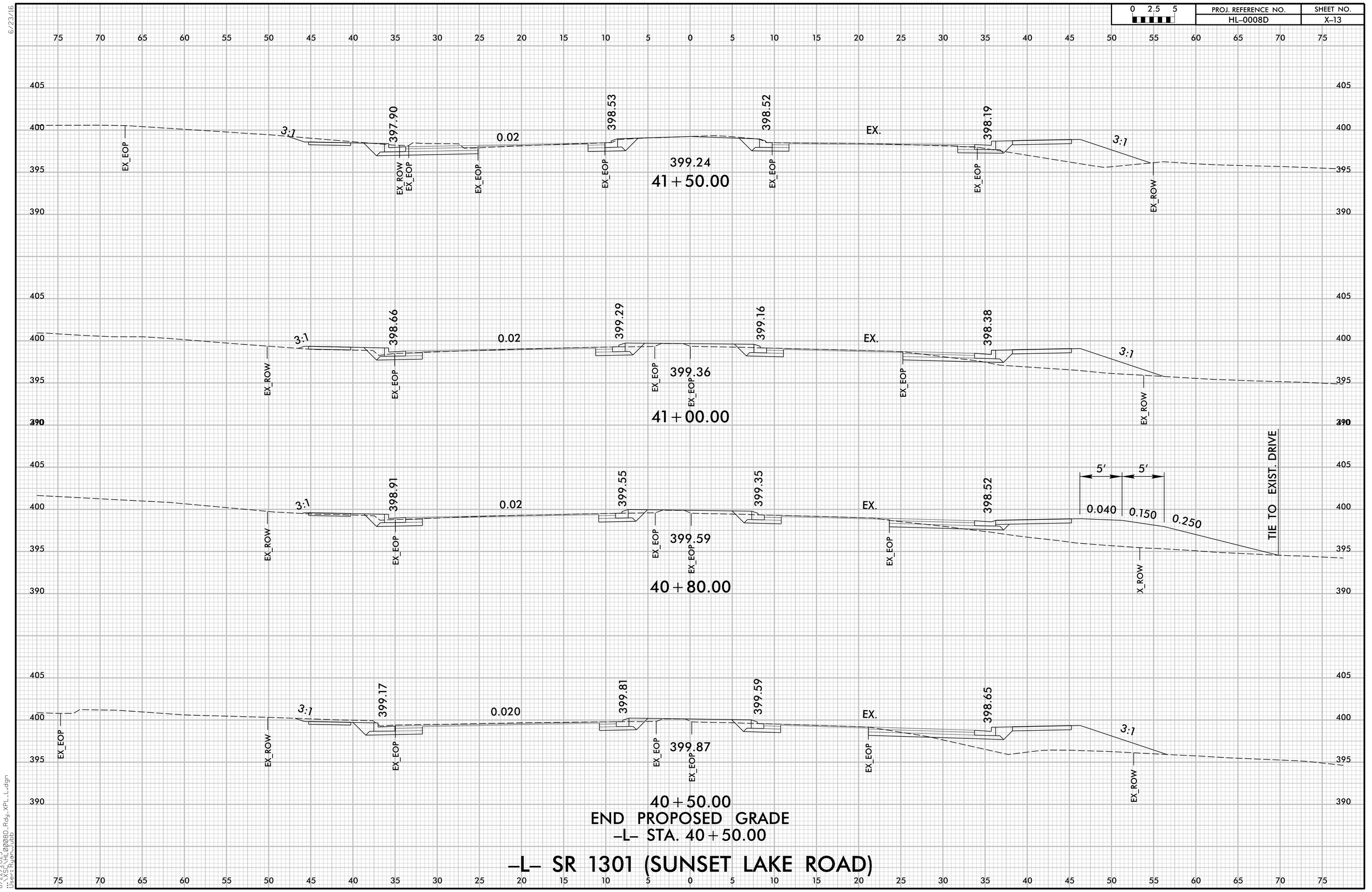
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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-12



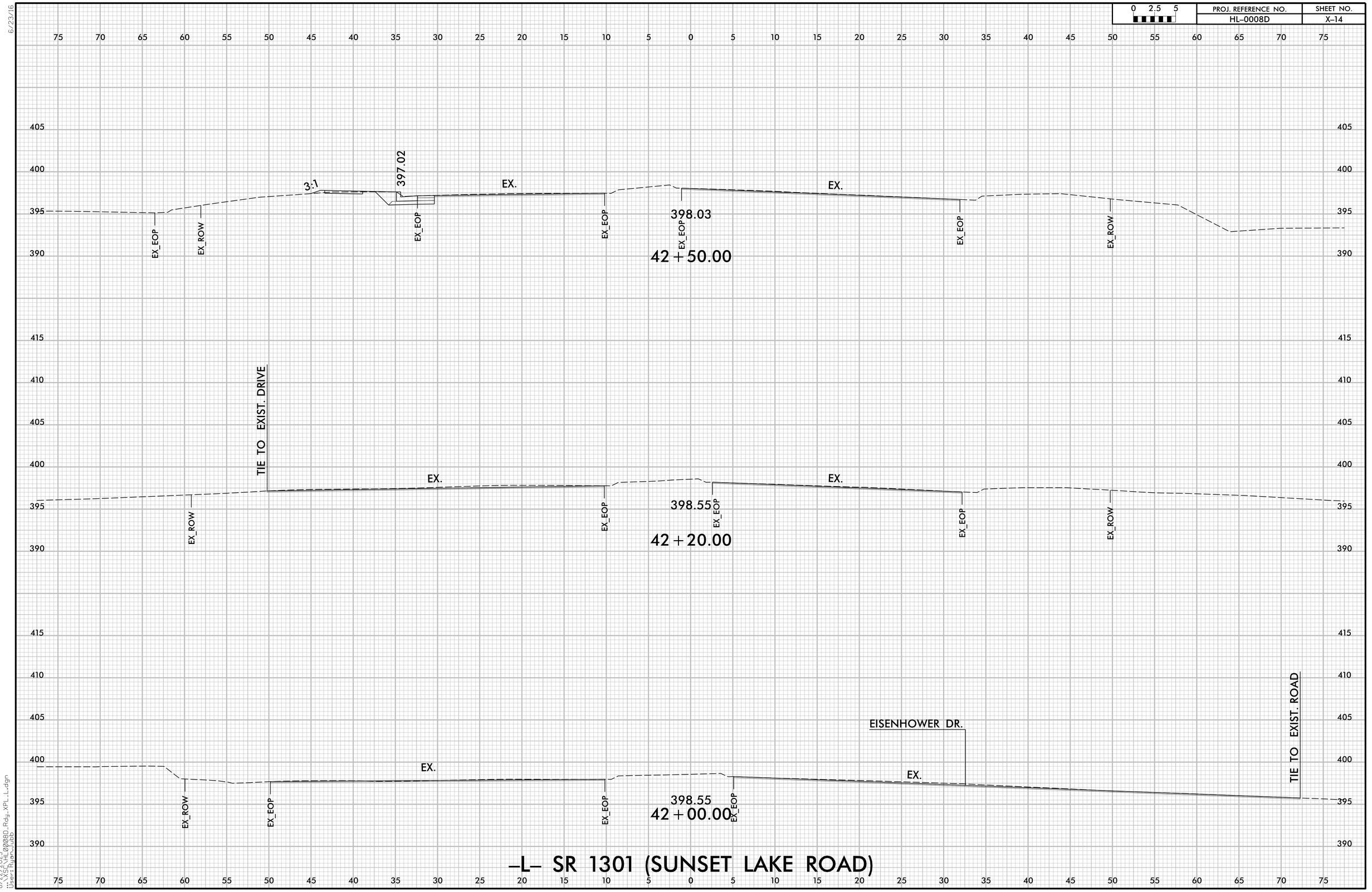
8/22/2025
::\XS\HL0008D_Rdy_XPL_L.dgn
User: RyanJobb

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-13



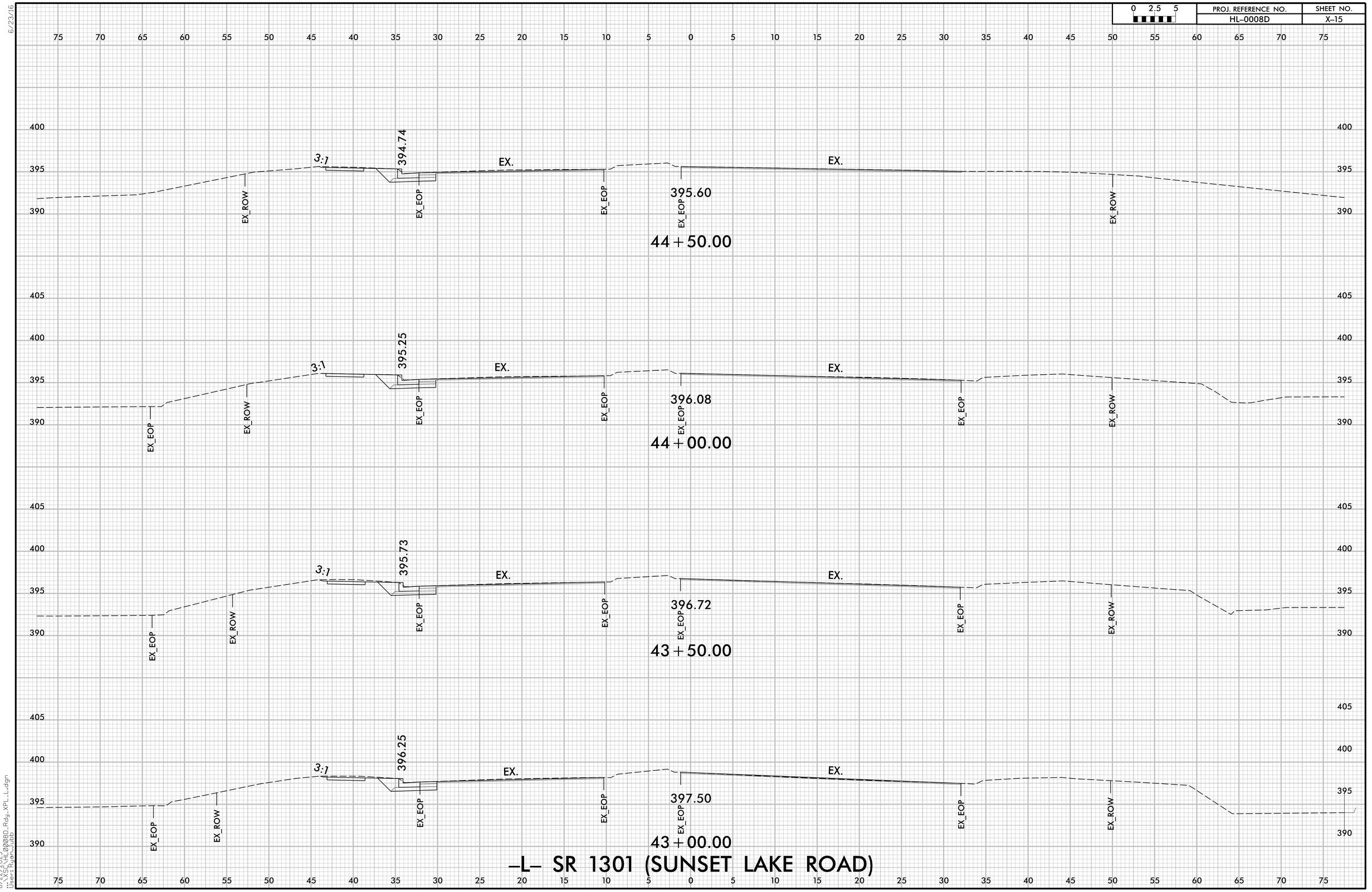
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User:RyanJobb

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-14



6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-15

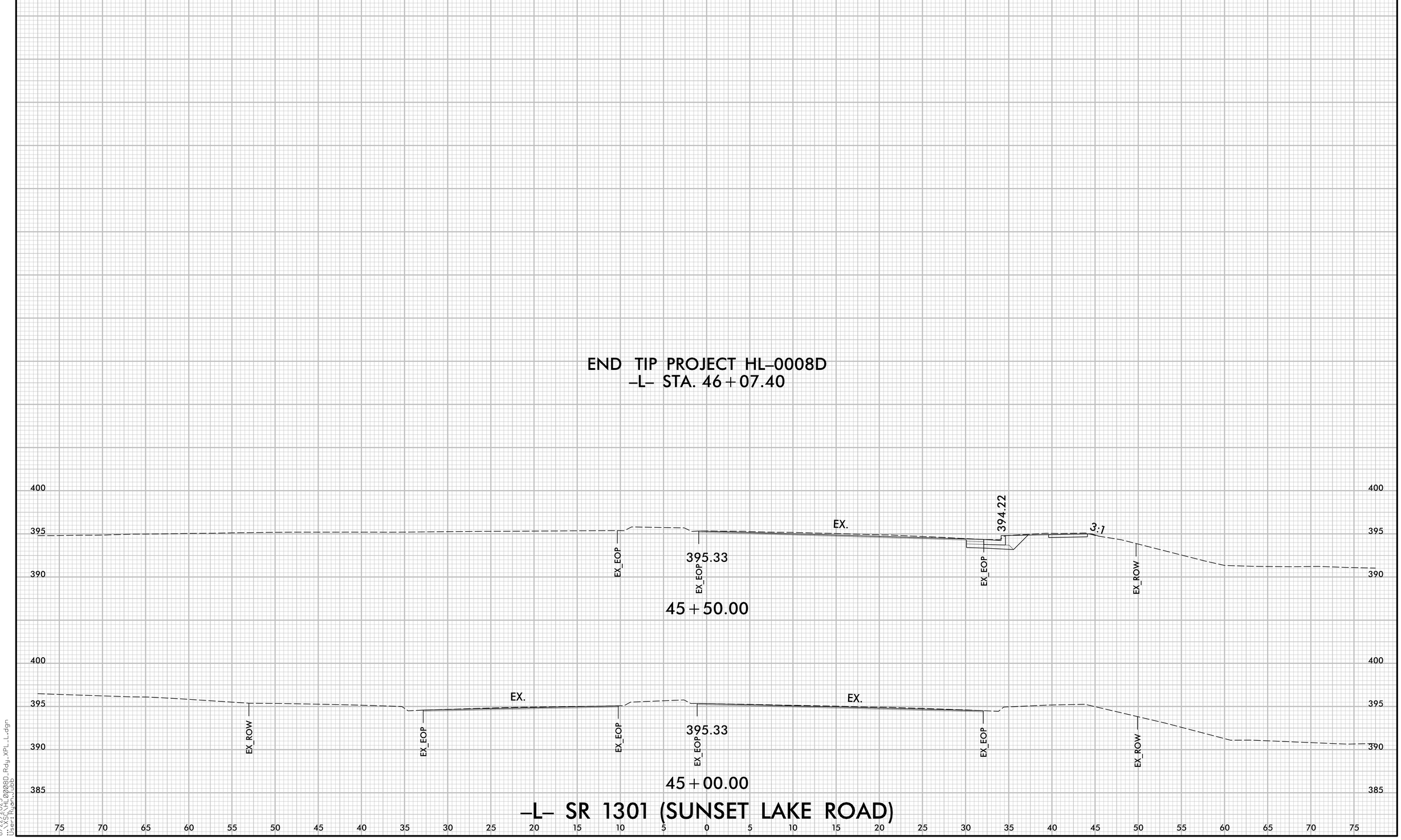


8/22/2025
...\XS\HL0008D_Rdy_XPL_L.dgn
User:RyanJubb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-16

END TIP PROJECT HL-0008D
-L- STA. 46+07.40



8/22/2025
...\XS_HL0008D_Rdy_XPL_L.dgn
User:RyanJubb

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-17

90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

395
390
385
380

3:1
EX.
EX_ROW
EX_EOP
EX_EOP
387.62
100+50.00
EX_EOP
EX_EOP
EX_ROW

395
390
385
380

5′ 5′
0.08 0.02
0.15
EX.
EX_ROW
EX_EOP
EX_EOP 386.84 EX_EOP
100+10.00
EX_EOP
EX_ROW

BEGIN CONSTRUCTION
–Y1– STA. 100+02.45

395
390
385
380
375

BK
EX_EOP
EX_EOP 386.71 EX_EOP
100+00.00
EX_EOP
EX_ROW

–Y1– SR 1152 (HOLLY SPRINGS RD.)

90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

10/8/2025
...\XSC\HL0008D_Rdy_XPL_Y1.dgn
User:mlindsey

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	HL-0008D	X-18

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

400
395
390
385

EX_EOP
EX_ROW
EX_EOP
EX.
EX_EOP
EX_EOP
EX_EOP
EX_ROW

392.83
102 + 00.00

405
400
395
390
385

TIE TO EXIST. DRIVE
EX_ROW
EX.
EX_EOP
EX_EOP
EX_EOP
EX_ROW

391.00
101 + 50.00

415
410
405
400
395
390
385
380

3:1
EX_ROW
EX_EOP
EX.
EX_EOP
EX_EOP
EX_EOP
EX_ROW

389.33
101 + 00.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

–Y1– SR 1152 (HOLLY SPRINGS RD.)

10/8/2025
\\XSC\HL0008D_Rdy_XPL_Y1.dgn
User: mlindsey

6/23/16

0 2.5 5

PROJ. REFERENCE NO.	SHEET NO.
HL-0008D	X-19

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

400
395
390

EX_ROW
EX_EOP

L/Y1 INTERSECTION

396.23

103+50.00

400
395
390

EX.
EX_ROW
EX_EOP
EX_EOP
EX_EOP
EX_EOP

395.85

103+00.00

400
395
390
385

EX.
EX_ROW
EX_EOP
EX_EOP
EX_EOP
EX_ROW

394.63

102+50.00

–Y1– SR 1152 (HOLLY SPRINGS RD.)

10/8/2025
...\XSC\HL0008D_Rdy_XPL_Y1.dgn
User: mlindsey