

PUBLIC UTILITIES	
ELECTRIC –	PSE&G 80 PARK PLAZA NEWARK, NJ 07102
CABLE –	COMCAST 403 SOUTH STREET EATONTOWN, NJ 07728
	VERIZON 1318 MAPLE AVENUE ROEBLING, NJ 08554
GAS –	PSE&G 80 PARK PLAZA NEWARK, NJ 07102
WATER –	NEW JERSEY AMERICAN WATER 1 WATER STREET CAMDEN, NJ 08102
SEWER –	WEST ORANGE DEPARTMENT OF PUBLIC WORKS 25 LAKESIDE AVENUE WEST ORANGE, NJ 07052

PRELIMINARY

EAGLE ROCK AVENUE

ROADWAY IMPROVEMENT PLANS

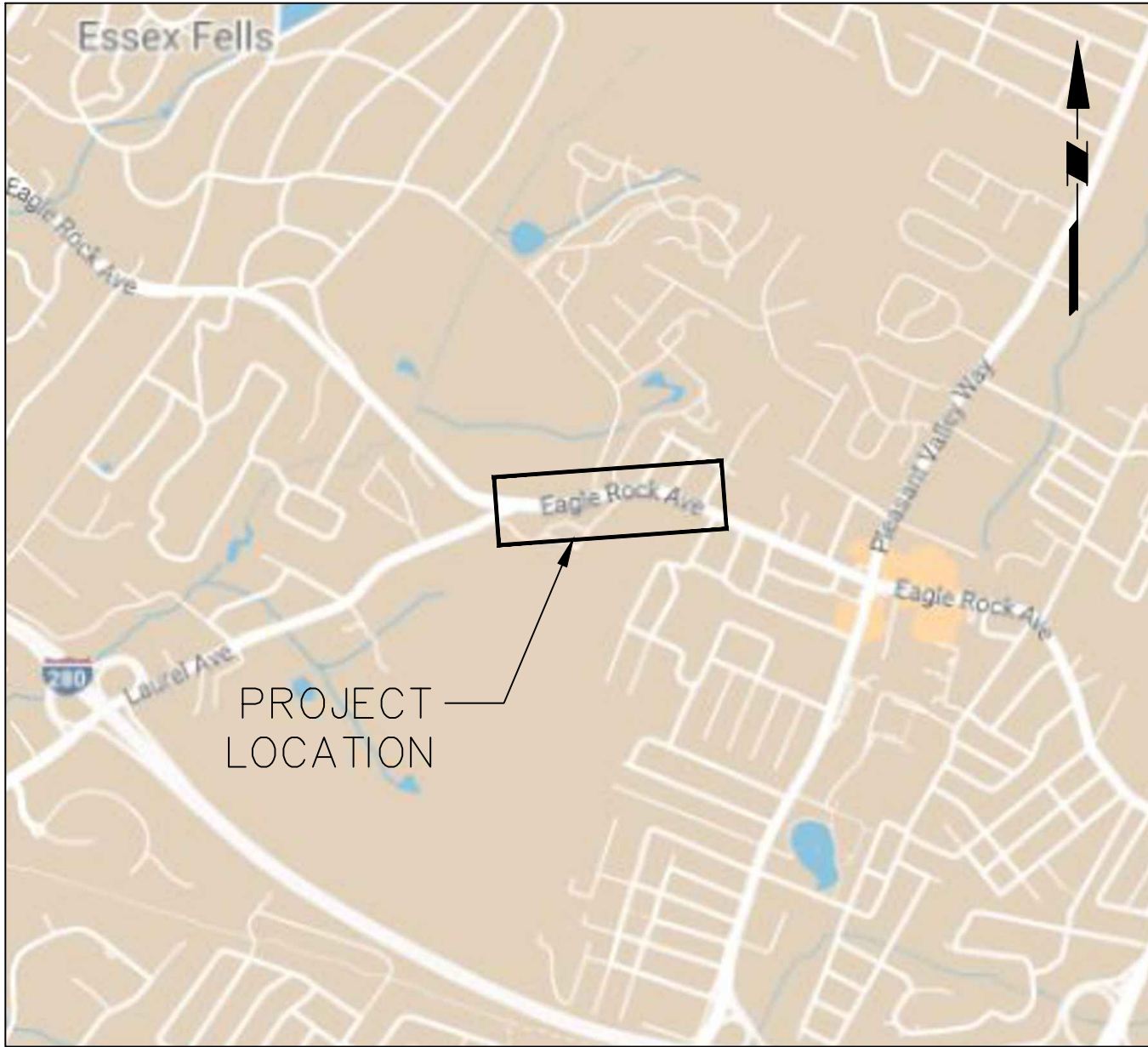
C.R. 611, MILEPOST 2.6-2.8

WEST ORANGE

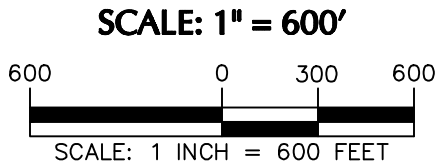
ESSEX COUNTY, NEW JERSEY

FEBRUARY 2026

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2	KT002–0101	LEGEND AND GENERAL NOTES
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20–22	KT501–0101	DETAILS



PROJECT LOCATION



UNDERGROUND LOCATION SERVICE CALL: 1–800–272–1000.

NOTE:

LOCATION OF UTILITIES AS SHOWN ON THESE PLANS ARE PLOTTED FROM AVAILABLE DATA ON FILE WITH THE UTILITY COMPANIES AND IS NOT GUARANTEED AS TO EXACTNESS. THE CONTRACTOR IS TO CONTACT UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL USE THE UTILITY LOCATIONS SHOWN AS AN AID IN DETERMINING EXACT LOCATIONS.

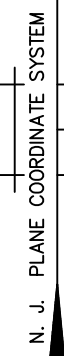
CHANGES MADE TO THESE PLANS SINCE SIGNATURE BY THE CONSULTANT MAY BE DETERMINED BY COMPARISON OF THE PLANS FILED AT THE DEPARTMENT WITH THOSE FILED AT THE OFFICE OF THE CONSULTANT.

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL GOVERN AS UPDATED AND AMENDED PER NJDOT BASELINE DOCUMENT CHANGES. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM IF SUPPLEMENTARY SPECIFICATIONS ARE APPLICABLE.

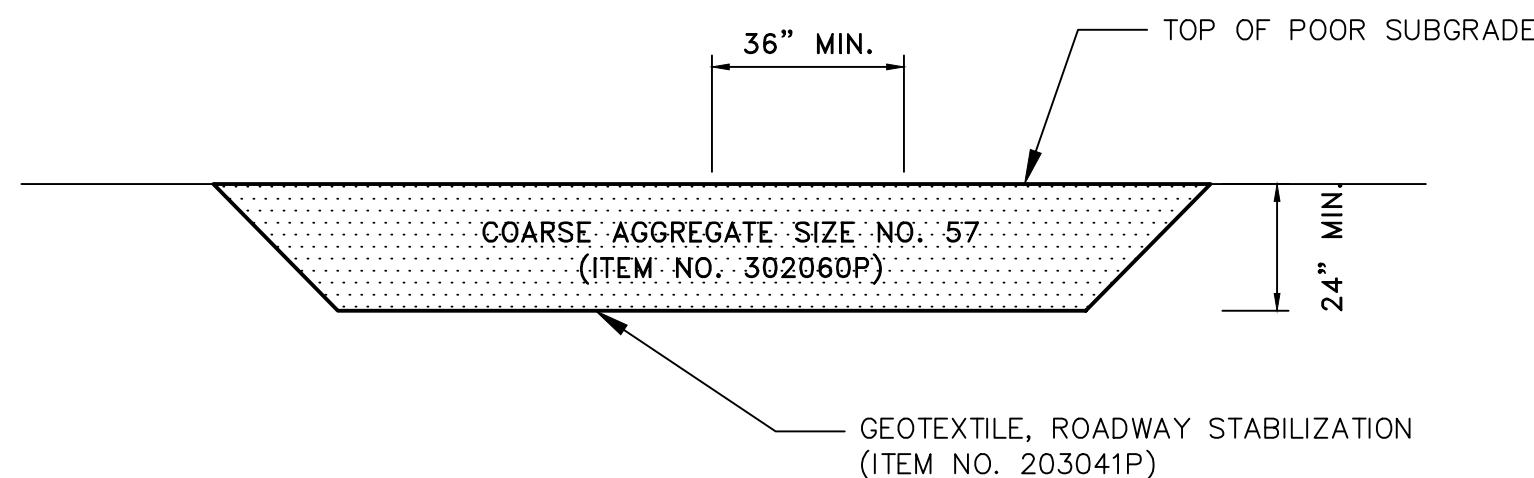
THE NEW JERSEY DEPARTMENT OF TRANSPORTATION 2016 STANDARD ROADWAY CONSTRUCTION – TRAFFIC CONTROL – BRIDGE CONSTRUCTION DETAILS AND THE 2007 STANDARD ELECTRICAL DETAILS SHALL GOVERN.

Date	Description	No.
Revisions		
 02/12/2026 DATE SIGNED SIGNATURE KARL A. PEHNKE PROFESSIONAL ENGINEER STATE LIC. No. GE36434		
LANGAN Langan Engineering and Environmental Services, LLC 1 University Square Drive, Suite 110 Princeton, NJ 08540 T: 609.282.8000 F: 609.282.8001 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400		
Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE ESSEX COUNTYNEW JERSEY		
Drawing Title		
COVER SHEET		
Project No. 101049802		Drawing No. KT001 0101
Date 02/12/2026		
Scale N/A		
Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026		
Sheet 1 of 22		

STANDARD LEGEND



1. PROPOSED UTILITY POLE RELOCATIONS, AS SHOWN OR REQUIRED DURING CONSTRUCTION, SHALL BE CONSTRUCTED BY PUBLIC SERVICE ELECTRIC & GAS, COMCAST, AND VERIZON. ABANDONED POLES SHALL BE REMOVED BY PUBLIC SERVICE ELECTRIC & GAS, COMCAST, AND VERIZON. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES ON THE REQUIRED RELOCATIONS.
2. PROPOSED WATER RELATED RELOCATIONS, RESETS AND NEW FACILITIES AS SHOWN OR REQUIRED DURING CONSTRUCTION, SHALL BE CONSTRUCTED BY NEW JERSEY AMERICAN WATER. WATER MAINS SHALL BE RELOCATED HORIZONTALLY AND/OR VERTICALLY AND SHALL NOT CONFLICT WITH PROPOSED IMPROVEMENTS.
3. PROPOSED GAS RELATED RELOCATIONS, RESETS AND NEW FACILITIES AS SHOWN OR REQUIRED DURING CONSTRUCTION SHALL BE CONSTRUCTED BY PUBLIC SERVICE ELECTRIC & GAS. GAS MAINS SHALL BE RELOCATED HORIZONTALLY AND/OR VERTICALLY AND SHALL NOT CONFLICT WITH PROPOSED IMPROVEMENTS.
4. DRAINAGE AND UTILITY STRUCTURES TO BE ABANDONED SHALL BE REMOVED TO 1' BELOW PROPOSED SUBBASE. BOTTOM SLAB OF STRUCTURE SHALL BE BROKEN THROUGH TO PROVIDE DRAINAGE. CONDUIT OPENINGS SHALL BE PLUGGED WITH CONCRETE. STRUCTURES SHALL BE BACKFILLED WITH COMPACTED SUBBASE.
5. UNSOUND PATCHES AND WEAK AREAS OF PAVEMENT SHALL BE EXCAVATED AND REPLACED WITH HMA 25M64 BASE COURSE PRIOR TO RESURFACING.
6. USE POLYMERIZED JOINT ADHESIVE FOR LONGITUDINAL JOINT OF NEW SURFACE COURSE WITH AN EXISTING HMA, CURB OR ANY VERTICAL SURFACE ALONG THE NEW SURFACE.
7. EXCAVATE AND REPLACE ANY UNSTABLE SUBGRADE MATERIALS WITH SUBBASE.
8. SURVEY INFORMATION:
 - 8.1. HORIZONTAL DATUM REFERS TO NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD 83.
 - 8.2. VERTICAL DATUM REFERS TO NAVD 1988.
 - 8.3. UTILITY INFORMATION SHOWN WAS OBTAINED BY FIELD VERIFICATION AND RECORD DRAWINGS. UTILITY MARKOUTS ARE RECOMMENDED FOR EXACT LOCATIONS OF UTILITIES.
9. CONTRACTOR TO PERFORM TEST PITS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE AND RESOLVE UTILITY CONFLICTS WITH THE RESPECTIVE UTILITY.
10. CONSTRUCTION DETAIL (SEE BELOW), IF AND WHERE DIRECTED, FOR THE UNDERCUT STABILIZATION:



(NOT TO SCALE)

A.B., BK.	AHEAD, BACK	J.B.	JUNCTION BOX	RCP, R.C.P.	REINFORCED CONCRETE PIPE
B.C.T.	BARRIER CURB TRANSITION	LCT, LCT.	LINEAR CURB TRANSITION	RMC, R.M.C.	RIGID METALLIC CONDUIT
B , B.L.	BASELINE	LT., RT.,	LEFT, RIGHT	RNMC, R.N.M.C.	RIGID NON-METALLIC CONDUIT
BGR	BEAM GUIDE RAIL	LOP	LIMIT OF PAVEMENT (PAVING)	ROW, R.O.W.	RIGHT OF WAY
BM, B.M.	BENCHMARK	LOM	LIMIT OF MILLING	RR, R.R.	RAILROAD
B.T.	BELL TELEPHONE	M.B.	MAILBOX	RTE, RT.	ROUTE
BIT., BITUM.	BITUMINOUS	M.P.	MILE POST	SAN.	SANITARY
BLDG.	BUILDING	MAX, MAX.	MAXIMUM	SDWK.	SIDEWALK
C , C.L.	CENTERLINE	MIN, MIN.	MINIMUM	S.E.	SOIL EROSION & SEDIMENT CONTROL PLAN
CL.P.	CAST IRON PIPE	NO, NO.	NUMBER	S.H.D.	STATE HIGHWAY DEPARTMENT
CLF	CHAIN LINK FENCE	N.T.S.	NOT TO SCALE	SHLD.	SHOULDER
C.M.P.	CORRUGATED METAL PIPE	PVMT, PAV'T	PAVEMENT	S , S.D.	SURVEY LINE
CONC.	CONCRETE	PERF.	PERFORATED	S.O., S.D.	SUBBASE OUTLET DRAIN
CRT	CURB RAMP TYPE	PGL, P.G.L.	PROFILE GRADE LINE	STY.	STORY
CULV.	CULVERT	P, P.L.	PROPERTY LINE, PROFILE LINE	T	TANGENT
D, DIA.	DIAMETER	PK	PARKER KAYLON MASONRY NAIL	TBA	TO BE ABANDONED
D, D.C.	DROP CURB	P.C, P.O.C.	POINT ON CURVE	TBR	TO BE REMOVED
DE	DITCH EXCAVATION	POL, P.O.L.	POINT ON LINE	TEL.	TELEPHONE
DEP., DP	DEPRESSED CURB	POT, P.O.T.	POINT ON TANGENT	TEMP.	TEMPORARY
DR	DRILL HOLE	PROP, P.R.C.	PROPOSED POINT OF REVERSE CURVE	TH., TH.	THICK
EB	DRIVEWAY	PT, P.T.	POINT OF TANGENCY	THP, T.H.P.	TYPE, TYPE
E.B. W.B. N.B. S.B.	EASTBOUND, WESTBOUND, NORTHBOUND, SOUTHBOUND	PVC, P.V.C.	POLYVINYL CHLORIDE PIPE	U.D., U.	UNDERDRAIN
EL, ELEV.	ELEVATION		POINT OF VERTICAL CURVATURE	UP, U.P.	UTILITY POLE
EDGE OF PAVEMENT		PSI	PLAN SHEET INDEX	VAR, VAR.	VARIABLE, VARIES
EXIST, EXIST.	EXISTING	PVI, P.V.I.	POINT OF VERTICAL INTERSECTION	VCT, V.C.T.	VERTICAL CURB TRANSITION
GR	GRATE	PVT, P.V.T	POINT OF VERTICAL TANGENCY, PAVEMENT	W.C.V.G.	WHITE CONCRETE VERTICAL CURB
HT.	HEIGHT	RADIUS	RADIUS	WM	WATER METER
H.W.	HEADWALL	RCP, R.C.P.	REINFORCED CONCRETE PIPE	X-SECT	CROSS SECTION
HYD.	HYDRANT	RCCP, R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE		
INV	INVERT				
IP	IRON PIN				

E-D00-	EST. & DIST. OF QTY	R0Y	T - TIES	TSS -	TRAFFIC SIGNAL, SIGNALING AND STRIPING PLANS
TS	- TECHNICAL SECTIONS	G	- GRADES	STD	- SIGN TEXT DETAIL
PSI	- PLAN SHEET INDEX	TC	- TRAFFIC CONTROL/STAGING PLANS	MS	- METHOD OF CROSS SECTIONS
C	- CONSTRUCTION PLANS	E	- ELECTRICAL PLANS	X	- CROSS SECTIONS
DP	- DRAINAGE PLANS	ES	- ELECTRICAL SIGNAL PLANS	CON	- CONSTRUCTION DETAILS
P	- DRAINAGE PLANS	LS	- LANDSCAPE PLANS	EOOB-	- ESTIMATE OF QUANTITIES - BRIDGE
D	- PROFILES	SL	- SIGN LOCATION PLANS	B	- BRIDGE PLANS

Revisions

02/12/2026
DATE SIGNED

KARL A. PEHNKE
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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS

WEST ORANGE

ESSEX COUNTY NEW JERSEY

Drawing Title

LEGEND AND GENERAL NOTES

Project No.	101049802
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Date _____

02/12/2026

Scale

	N/A
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Drawn By	Checked
TEA	

IJM	
Submission Date	

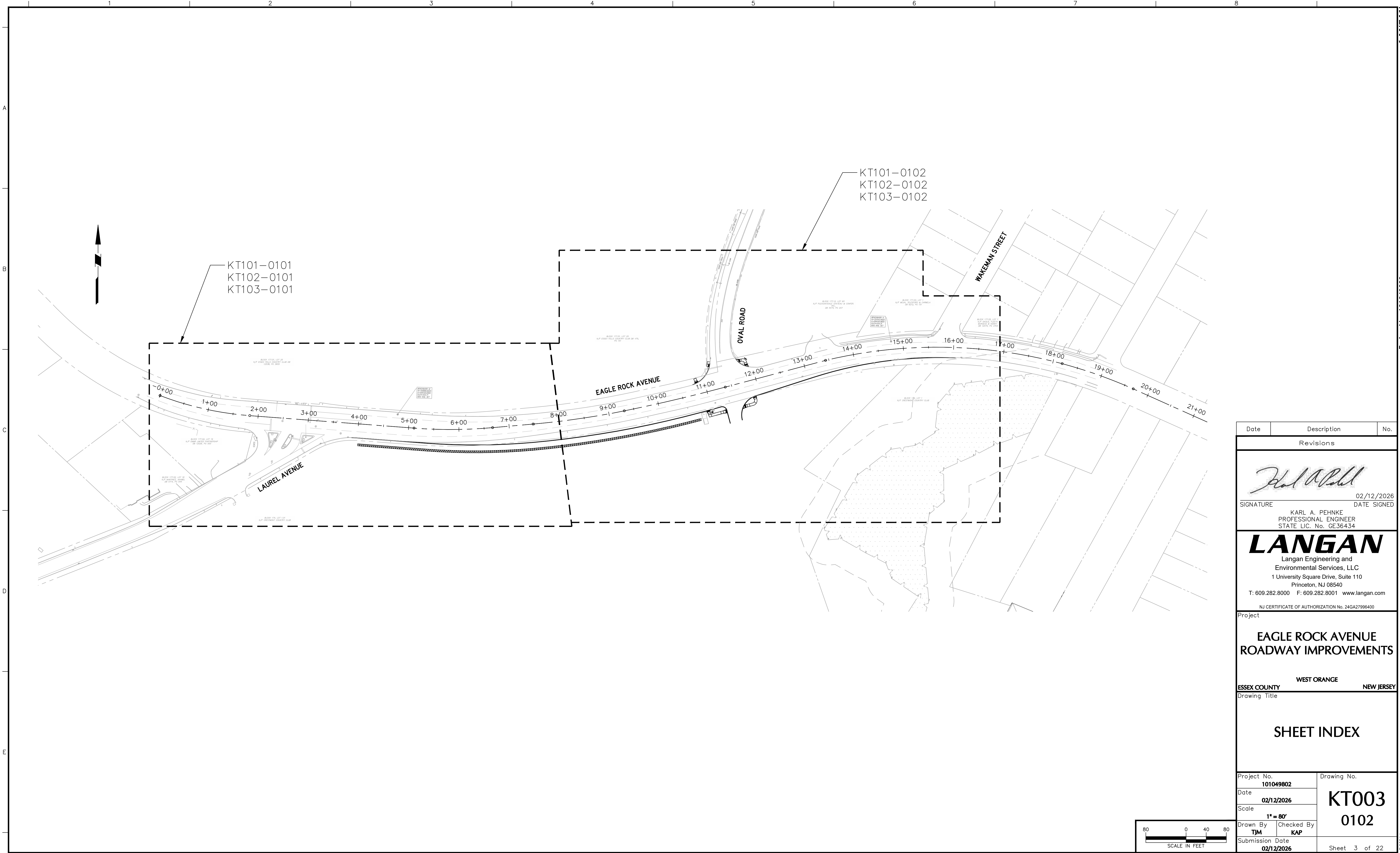
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03/13/2026

Drawing No.

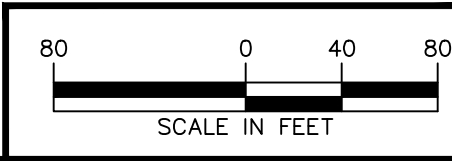
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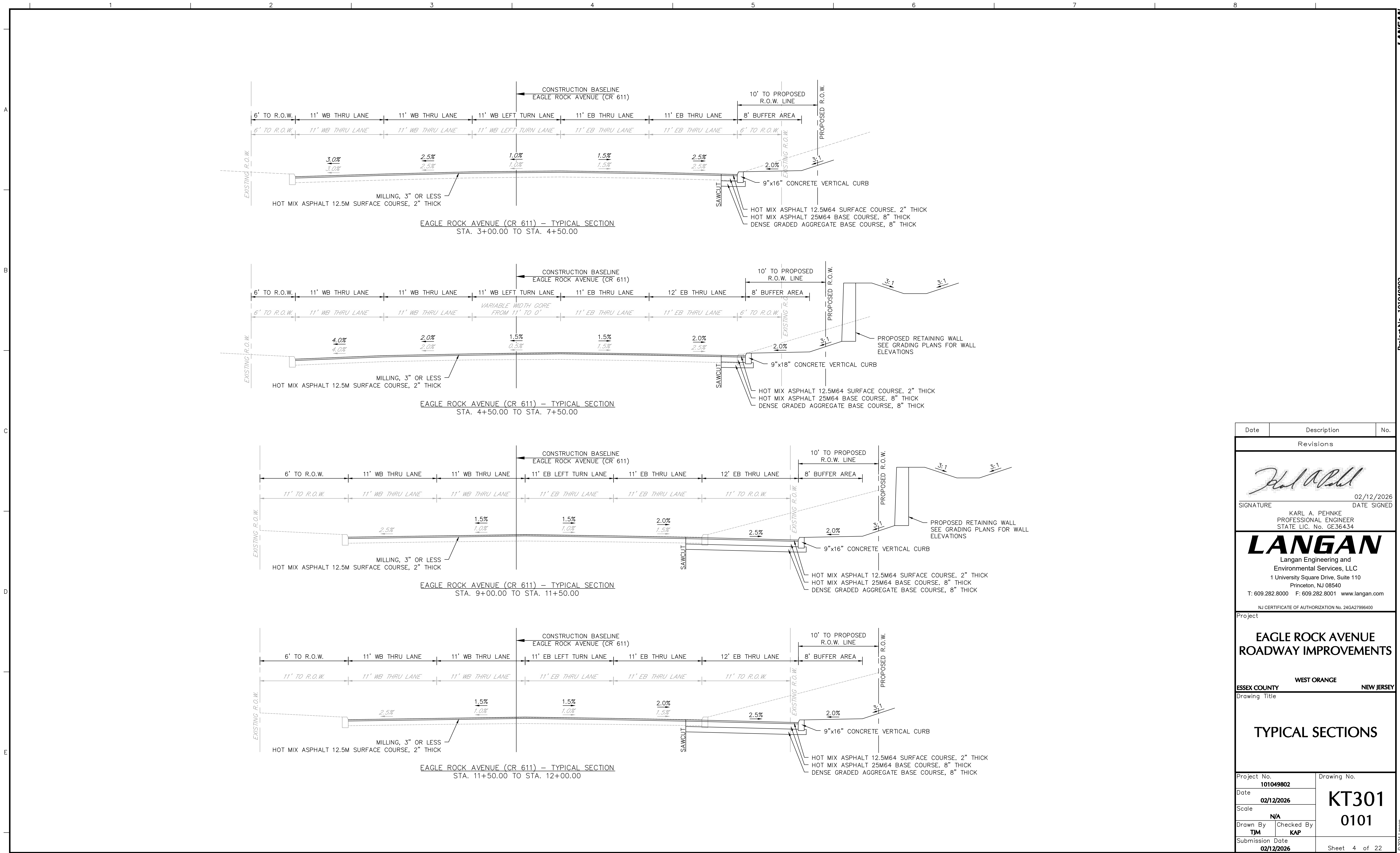
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Sheet 2 of 22



Date	Description	No.
Revisions		
		
SIGNATURE		02/12/2026 DATE SIGNED
KARL A. PEHNKE PROFESSIONAL ENGINEER STATE LIC. No. GE36434		
LANGAN Langan Engineering and Environmental Services, LLC 1 University Square Drive, Suite 110 Princeton, NJ 08540 T: 609.282.8000 F: 609.282.8001 www.langan.com		
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400		
Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
ESSEX COUNTY WEST ORANGE NEW JERSEY		
Drawing Title		
SHEET INDEX		
Project No. 101049802		Drawing No. KT003 0102
Date 02/12/2026		
Scale 1" = 80'		
Drawn By TJM		
Checked By KAP		Sheet 3 of 22
Submission Date 02/12/2026		





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Revisions		
		
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Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE NEW JERSEY		
ESSEX COUNTY		
Drawing Title		
TYPICAL SECTIONS		
Project No. 101049802		Drawing No. KT301 0101
Date 02/12/2026		
Scale N/A		
Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026		Sheet 4 of 22

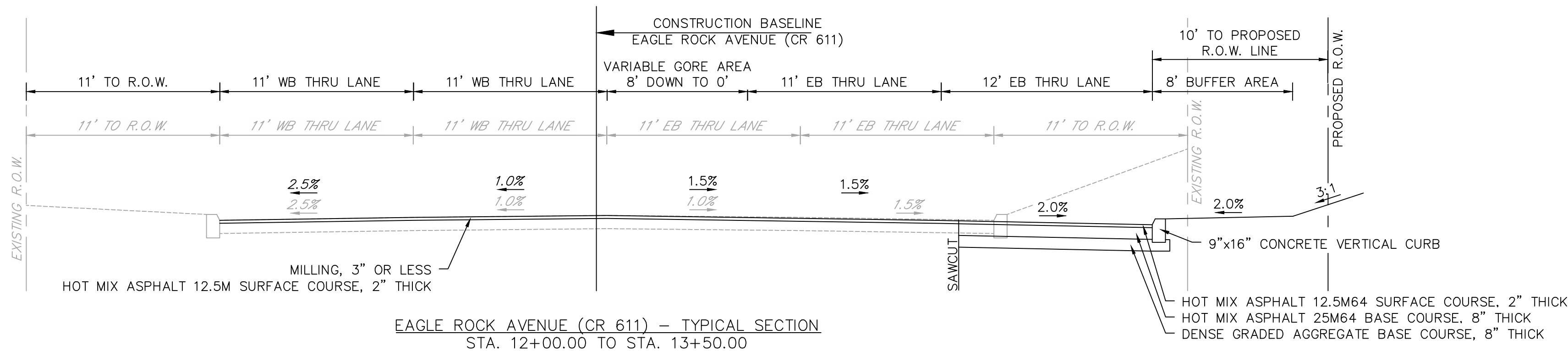
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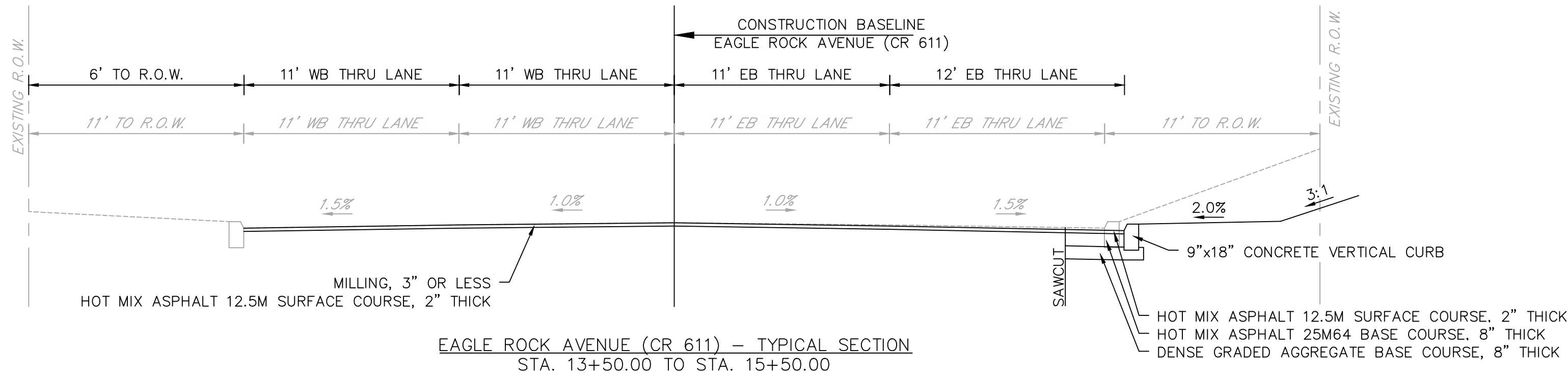
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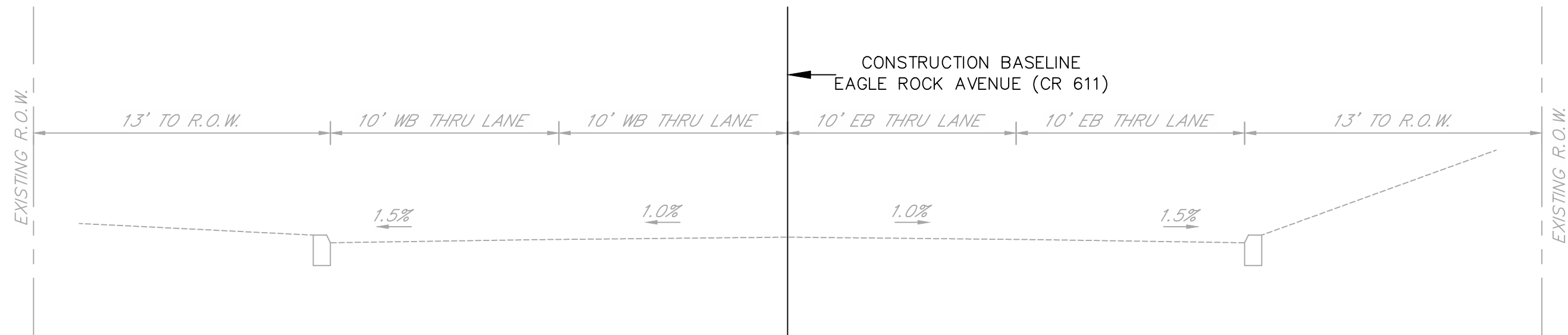
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EAGLE ROCK AVENUE (CR 611) – TYPICAL SECTION
STA. 12+00.00 TO STA. 13+50.00

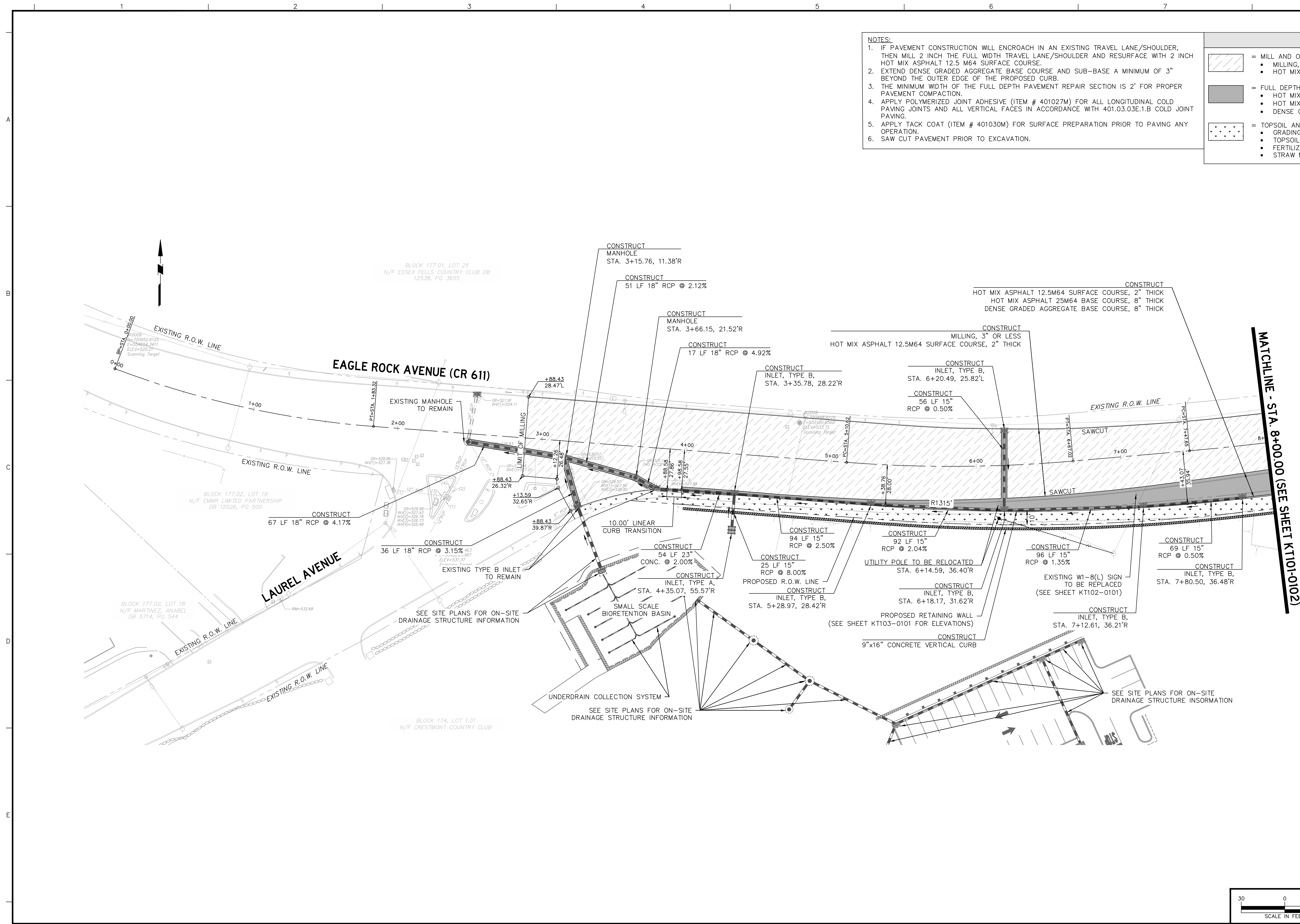


EAGLE ROCK AVENUE (CR 611) – TYPICAL SECTION
STA. 13+50.00 TO STA. 15+50.00



EAGLE ROCK AVENUE (CR 611) – TYPICAL SECTION
STA. 16+00.00 TO STA. 17+00.00

Date	Description	No.
Revisions		
		
SIGNATURE		02/12/2026 DATE SIGNED
KARL A. PEHNKE PROFESSIONAL ENGINEER STATE LIC. No. GE36434		
LANGAN Langan Engineering and Environmental Services, LLC 1 University Square Drive, Suite 110 Princeton, NJ 08540 T: 609.282.8000 F: 609.282.8001 www.langan.com		
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400		
Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE ESSEX COUNTY NEW JERSEY		
Drawing Title		
TYPICAL SECTIONS		
Project No. 101049802		Drawing No. KT301 0102
Date 02/12/2026		
Scale N/A		
Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026		
Sheet 5 of 22		



Date	Description	No.
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Revisions


SIGNATURE

02/12/2026
DATE

SIGNATURE _____ DATE SIGNED _____

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Project

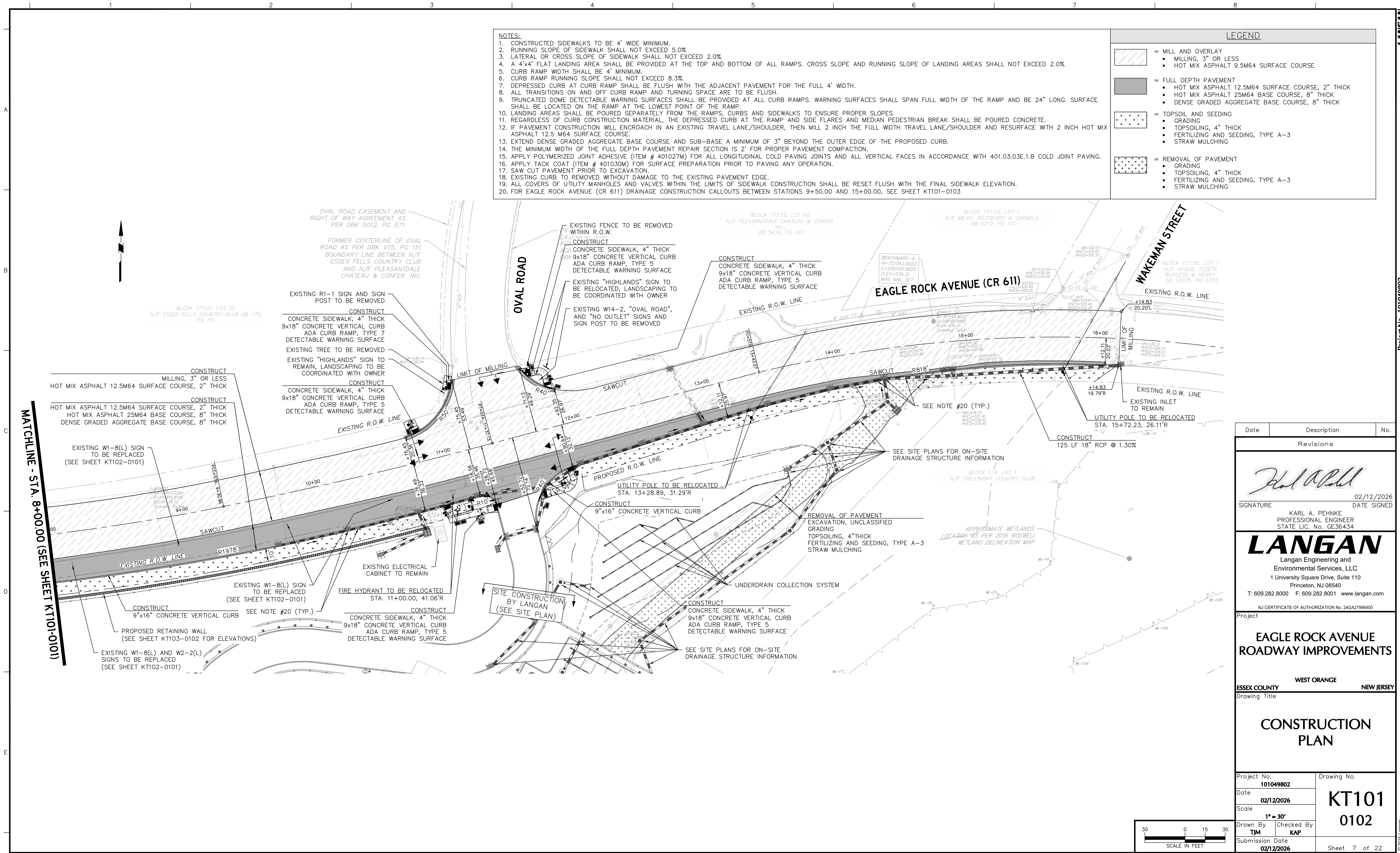
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS

WEST ORANGE

ESSEX COUNTY	NEW JERSEY
Drawing Title	

CONSTRUCTION PLAN

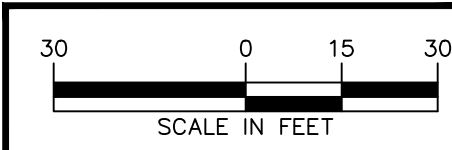
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Scale 1" = 30'		
Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026		
		Sheet 6 of 22

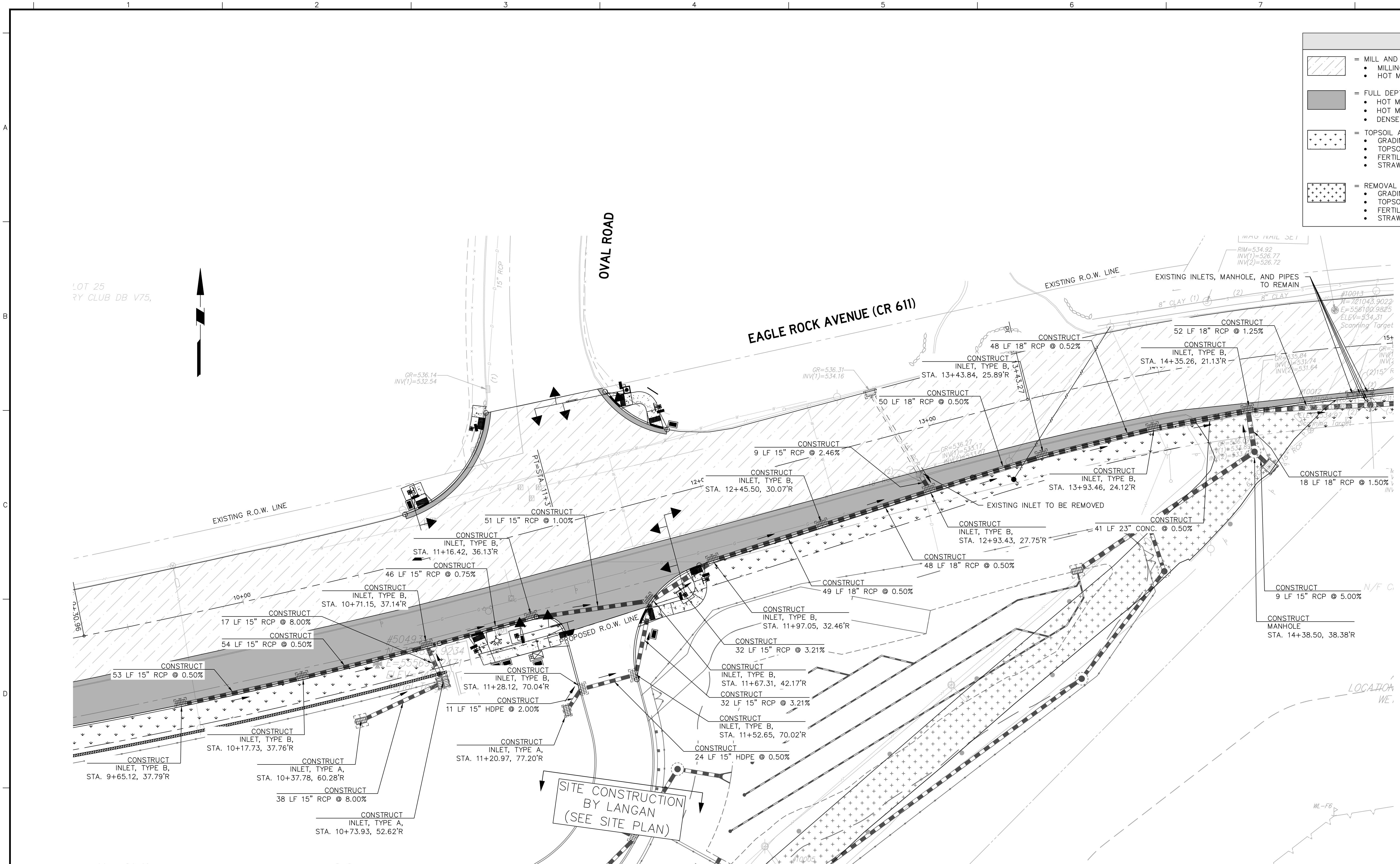


- NOTES:
1. CONSTRUCTED SIDEWALKS TO BE 4' WIDE MINIMUM.
 2. RUNNING SLOPE OF SIDEWALK SHALL NOT EXCEED 5.0%.
 3. LATERAL OR CROSS SLOPE OF SIDEWALK SHALL NOT EXCEED 2.0%.
 4. A 4'x4' FLAT LANDING AREA SHALL BE PROVIDED AT THE TOP AND BOTTOM OF ALL RAMPS. CROSS SLOPE AND RUNNING SLOPE OF LANDING AREAS SHALL NOT EXCEED 2.0%.
 5. CURB RAMP WIDTH SHALL BE 4' MINIMUM.
 6. CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 8.3%.
 7. DEPRESSED CURB AT CURB RAMP SHALL BE FLUSH WITH THE ADJACENT PAVEMENT FOR THE FULL 4' WIDTH.
 8. ALL TRANSITIONS ON AND OFF CURB RAMP AND TURNING SPACE ARE TO BE FLUSH.
 9. TRUNCATED DOME DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT ALL CURB RAMPS. WARNING SURFACES SHALL SPAN FULL WIDTH OF THE RAMP AND BE 24" LONG. SURFACE SHALL BE LOCATED ON THE RAMP AT THE LOWEST POINT OF THE RAMP.
 10. LANDING AREAS SHALL BE POURED SEPARATELY FROM THE RAMPS, CURBS AND SIDEWALKS TO ENSURE PROPER SLOPES.
 11. REGARDLESS OF CURB CONSTRUCTION MATERIAL, THE DEPRESSED CURB AT THE RAMP AND SIDE FLARES AND MEDIAN PEDESTRIAN BREAK SHALL BE POURED CONCRETE.
 12. IF PAVEMENT CONSTRUCTION WILL ENCR OACH IN AN EXISTING TRAVEL LANE/SHOULDER, THEN MILL 2 INCH THE FULL WIDTH TRAVEL LANE/SHOULDER AND RESURFACE WITH 2 INCH HOT MIX ASPHALT 12.5 M64 SURFACE COURSE.
 13. EXTEND DENSE GRADED AGGREGATE BASE COURSE AND SUB-BASE A MINIMUM OF 3" BEYOND THE OUTER EDGE OF THE PROPOSED CURB.
 14. THE MINIMUM WIDTH OF THE FULL DEPTH PAVEMENT REPAIR SECTION IS 2' FOR PROPER PAVEMENT COMPACTION.
 15. APPLY POLYMERIZED JOINT ADHESIVE (ITEM # 401027M) FOR ALL LONGITUDINAL COLD PAVING JOINTS AND ALL VERTICAL FACES IN ACCORDANCE WITH 401.03.03E.1.B COLD JOINT PAVING.
 16. APPLY TACK COAT (ITEM # 401030M) FOR SURFACE PREPARATION PRIOR TO PAVING ANY OPERATION.
 17. SAW CUT PAVEMENT PRIOR TO EXCAVATION.
 18. EXISTING CURB TO BE REMOVED WITHOUT DAMAGE TO THE EXISTING PAVEMENT EDGE.
 19. ALL COVERS OF UTILITY MANHOLES AND VALVES WITHIN THE LIMITS OF SIDEWALK CONSTRUCTION SHALL BE RESET FLUSH WITH THE FINAL SIDEWALK ELEVATION.
 20. FOR EAGLE ROCK AVENUE (CR 611) DRAINAGE CONSTRUCTION CALLOUTS BETWEEN STATIONS 9+50.00 AND 15+00.00, SEE SHEET KT101-0103

LEGEND	
	= MILL AND OVERLAY • MILLING, 3" OR LESS • HOT MIX ASPHALT 9.5M64 SURFACE COURSE
	= FULL DEPTH PAVEMENT • HOT MIX ASPHALT 12.5M64 SURFACE COURSE, 2" THICK • HOT MIX ASPHALT 25M64 BASE COURSE, 8" THICK • DENSE GRADED AGGREGATE BASE COURSE, 8" THICK
	= TOPSOIL AND SEEDING • GRADING • TOPSOILING, 4" THICK • FERTILIZING AND SEEDING, TYPE A-3 • STRAW MULCHING
	= REMOVAL OF PAVEMENT • GRADING • TOPSOILING, 4" THICK • FERTILIZING AND SEEDING, TYPE A-3 • STRAW MULCHING

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Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
ESSEX COUNTY WEST ORANGE NEW JERSEY		
Drawing Title		
CONSTRUCTION PLAN		
Project No. 101049802		Drawing No. KT101 0102
Date 02/12/2026		
Scale 1" = 30'		
Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026		Sheet 7 of 22





LEGEND

= MILL AND OVERLAY

MILLING, 3" OR LESS

HOT MIX ASPHALT 9.5M64 SURFACE COURSE

= FULL DEPTH PAVEMENT

HOT MIX ASPHALT 12.5M64 SURFACE COURSE, 2" THICK

HOT MIX ASPHALT 25M64 BASE COURSE, 8" THICK

DENSE GRADED AGGREGATE BASE COURSE, 8" THICK

= TOPSOIL AND SEEDING

GRADING

TOPSOILING, 4" THICK

FERTILIZING AND SEEDING, TYPE A-3

STRAW MULCHING

= REMOVAL OF PAVEMENT

GRADING

TOPSOILING, 4" THICK

FERTILIZING AND SEEDING, TYPE A-3

STRAW MULCHING

Date	Description	No.
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Revisions

02/12/2026

SIGNATURE

KARL A. PEHNKE

PROFESSIONAL ENGINEER

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Project

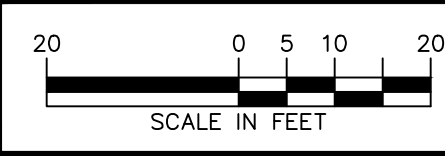
EAGLE ROCK AVENUE
ROADWAY IMPROVEMENTS

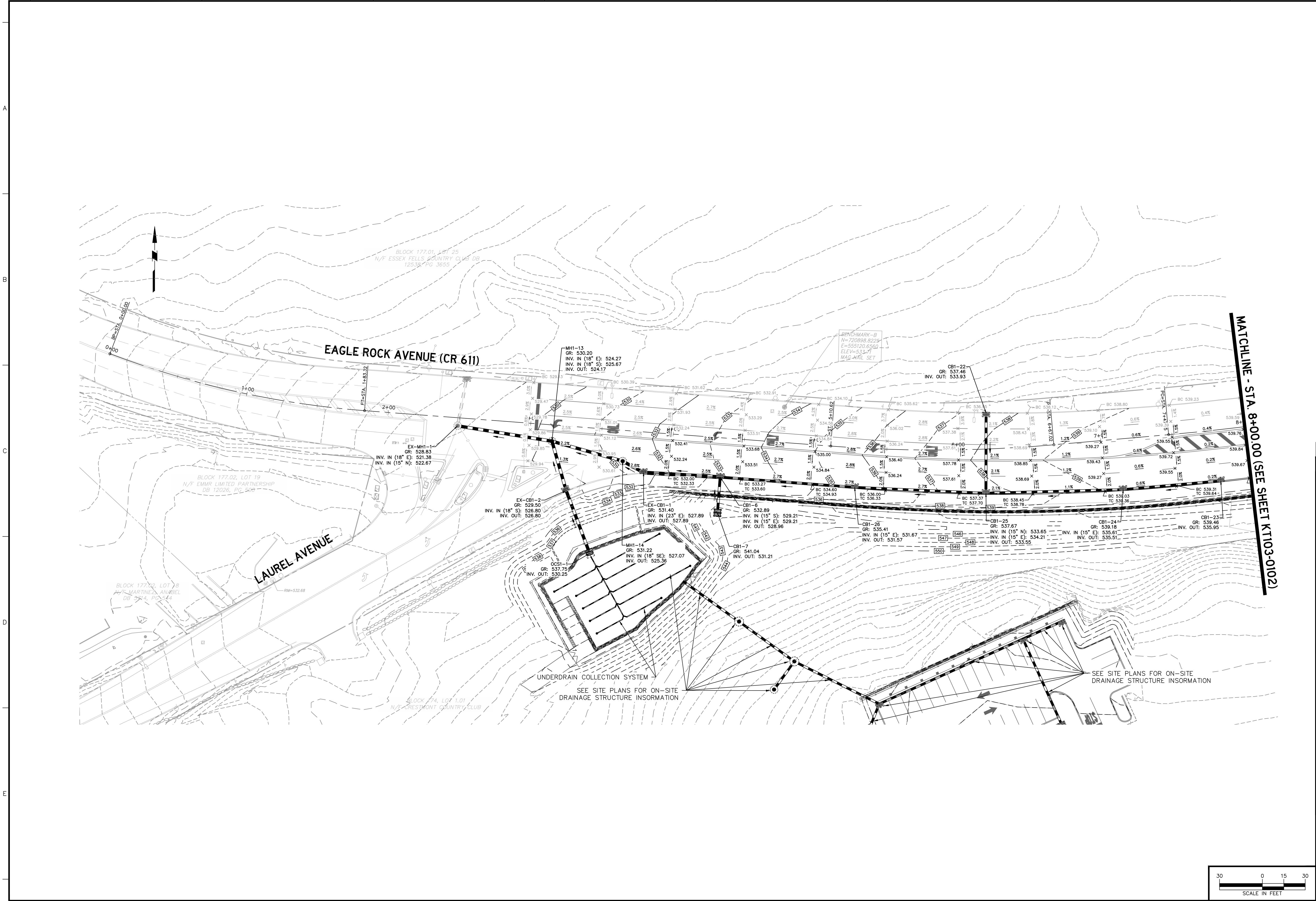
WEST ORANGE
ESSEX COUNTY NEW JERSEY

Drawing Title

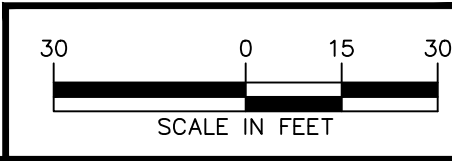
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PLAN

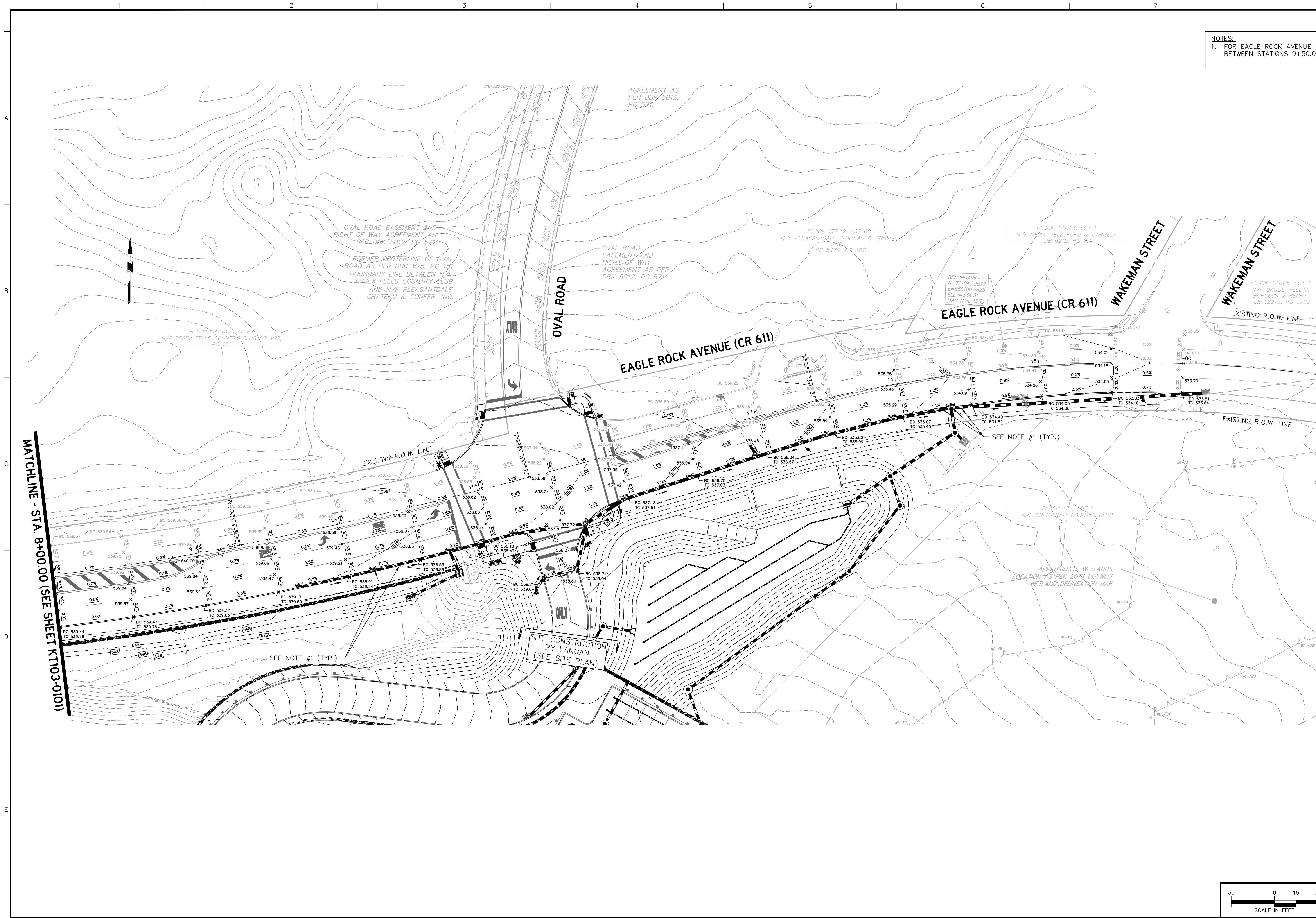
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Date 02/12/2026	
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Drawn By TJM	Checked By KAP
Submission Date 02/12/2026	Sheet 8 of 22





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Revisions			
			
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WEST ORANGE NEW JERSEY			
ESSEX COUNTY			
Drawing Title			
GRADING PLAN			
Project No. 101049802		Drawing No. KT103 0101	
Date 02/12/2026			
Scale 1" = 30'			
Drawn By TJM			
Submission Date 02/12/2026		Checked By KAP	Sheet 9 of 22





NOTES:
1. FOR EAGLE ROCK AVENUE (CR 611) DRAINAGE CONSTRUCTION CALLOUTS BETWEEN STATIONS 9+50.00 AND 15+00.00, SEE SHEET KT103-0103.

Date	Description	No.
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Revisions

Karl A. Pehnke
SIGNATURE
KARL A. PEHNKE
PROFESSIONAL ENGINEER
STATE LIC. No. GE36434
02/12/2026
DATE SIGNED

LANGAN
Langan Engineering and
Environmental Services, LLC
1 University Square Drive, Suite 110
Princeton, NJ 08540
T: 609.282.8000 F: 609.282.8001 www.langan.com
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project

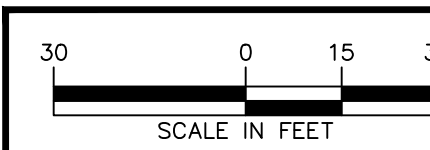
EAGLE ROCK AVENUE
ROADWAY IMPROVEMENTS

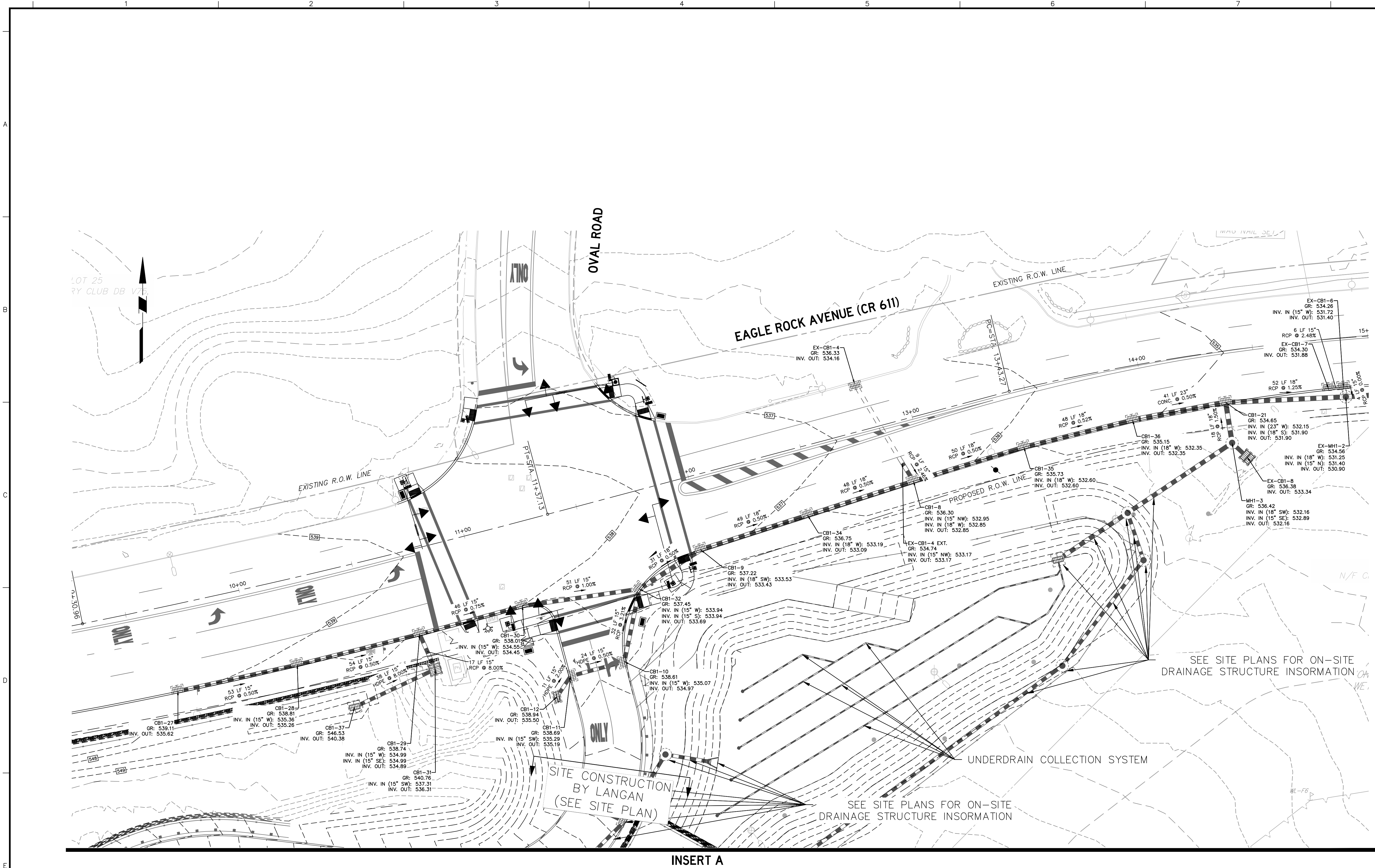
ESSEX COUNTY WEST ORANGE NEW JERSEY

Drawing Title

GRADING PLAN

Project No. 101049802	Drawing No. KT103 0102
Date 02/12/2026	
Scale 1" = 30'	
Drawn By TJM	Checked By KAP
Submission Date 02/12/2026	Sheet 10 of 22





Date	Description	No.
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Revisions

Handwritten Signature
SIGNATURE
KARL A. PEHNKE
PROFESSIONAL ENGINEER
STATE LIC. No. GE36434
02/12/2026
DATE SIGNED

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Project

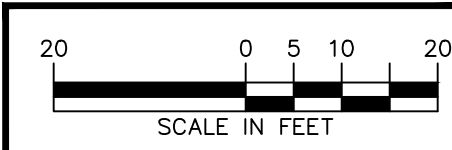
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ROADWAY IMPROVEMENTS

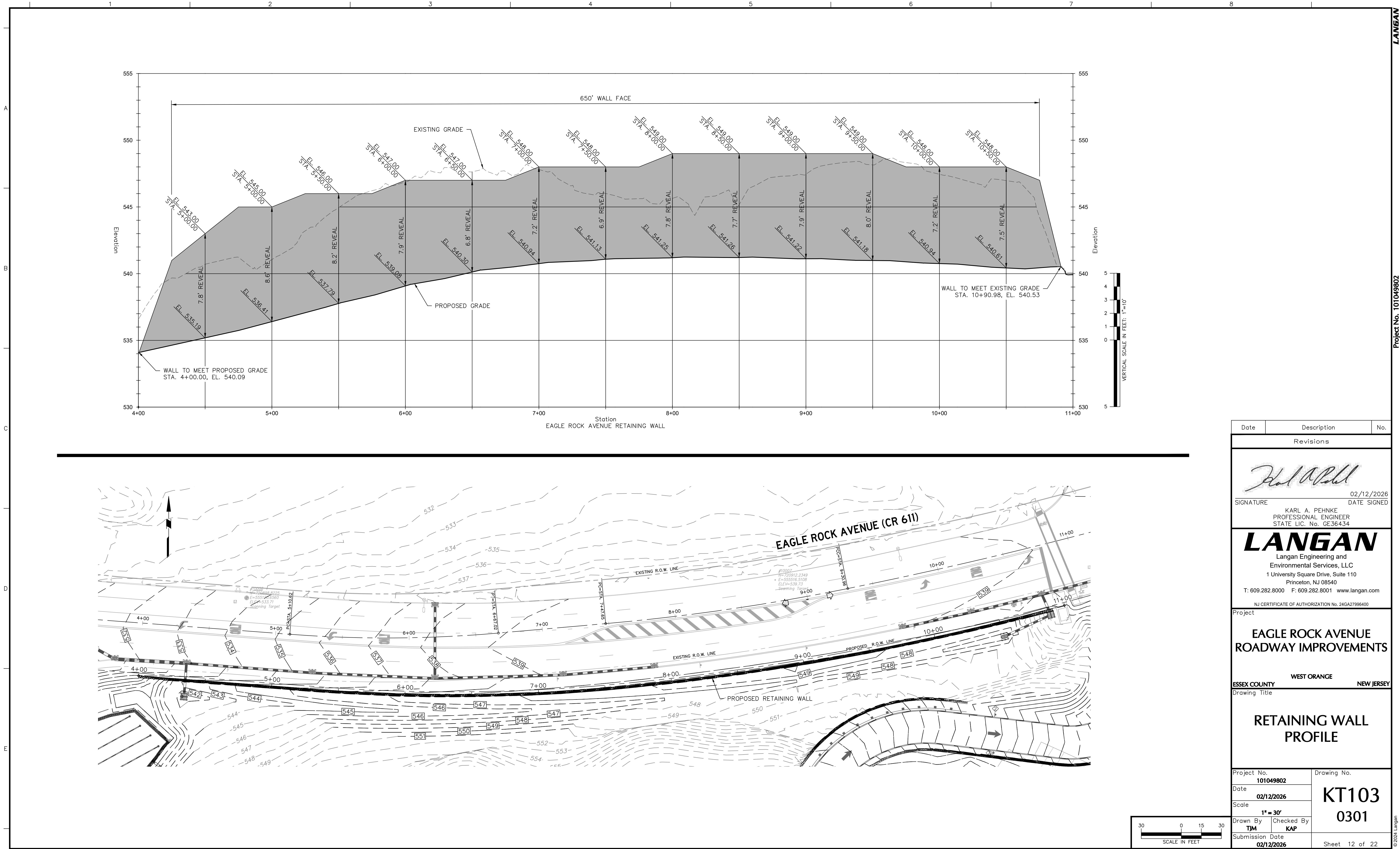
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Drawing Title

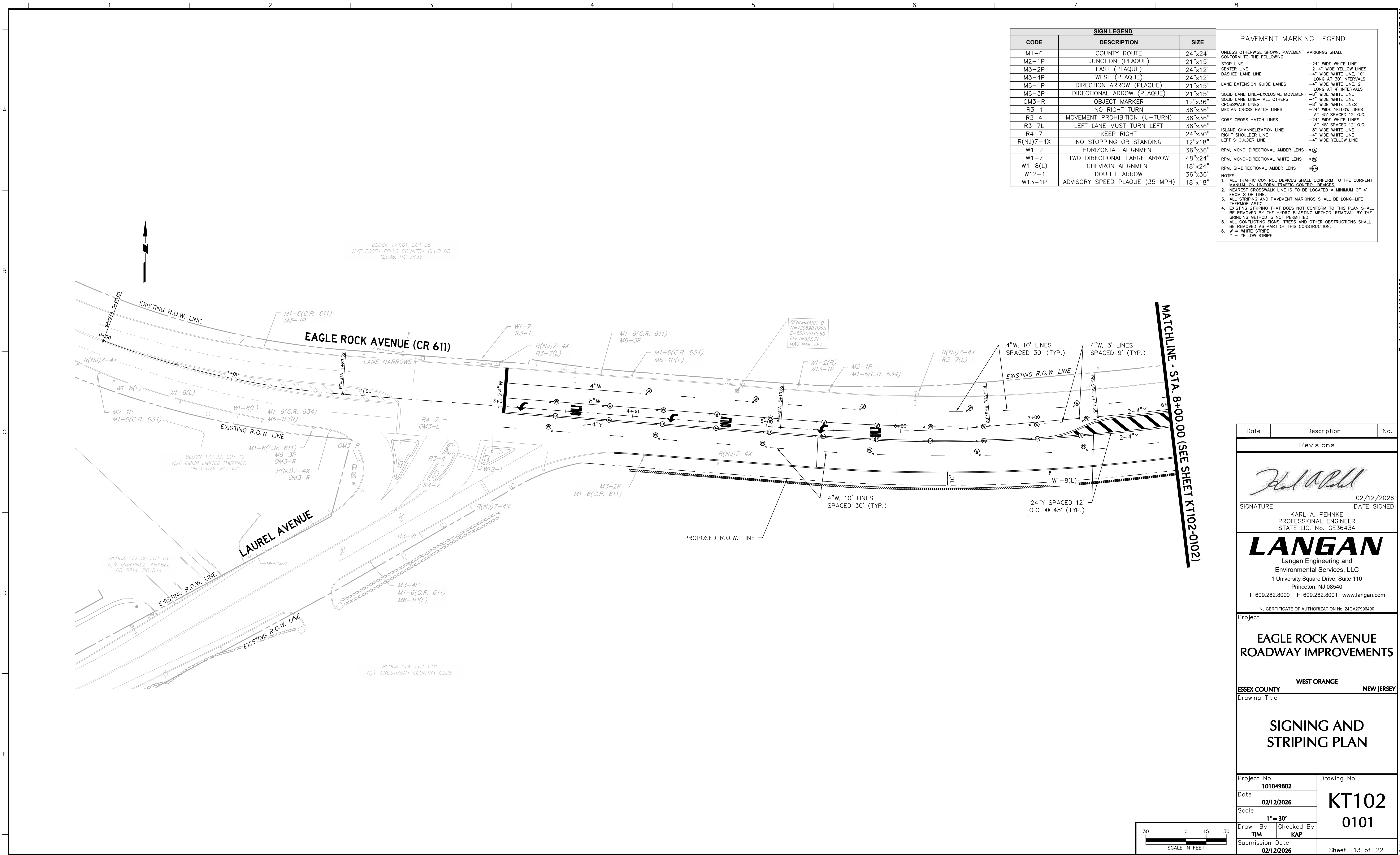
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Project No. 101049802	Drawing No. KT103 0103
Date 02/12/2026	
Scale 1" = 20'	
Drawn By TJM	Checked By KAP
Submission Date 02/12/2026	Sheet 11 of 22





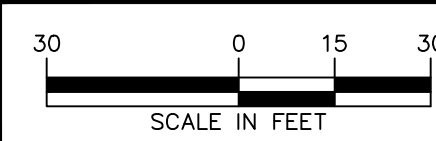
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Revisions		
		
02/12/2026 DATE SIGNED		
SIGNATURE KARL A. PEHNKE PROFESSIONAL ENGINEER STATE LIC. No. GE36434		
LANGAN Langan Engineering and Environmental Services, LLC 1 University Square Drive, Suite 110 Princeton, NJ 08540 T: 609.282.8000 F: 609.282.8001 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27986400		
Project EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS WEST ORANGE NEW JERSEY ESSEX COUNTY		
Drawing Title RETAINING WALL PROFILE		
Project No. 101049802		Drawing No. KT103 0301
Date 02/12/2026		
Scale 1" = 30'		
Drawn By TJM		
Checked By KAP		Sheet 12 of 22
Submission Date 02/12/2026		

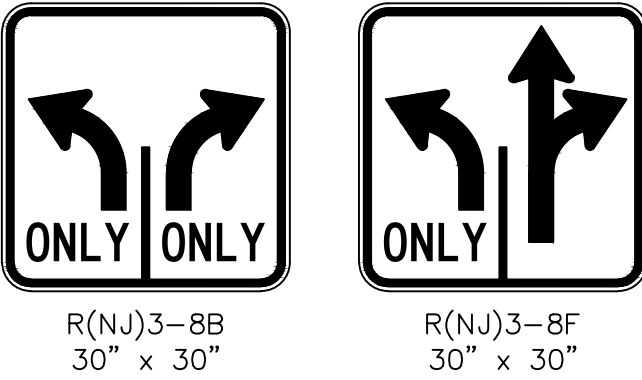
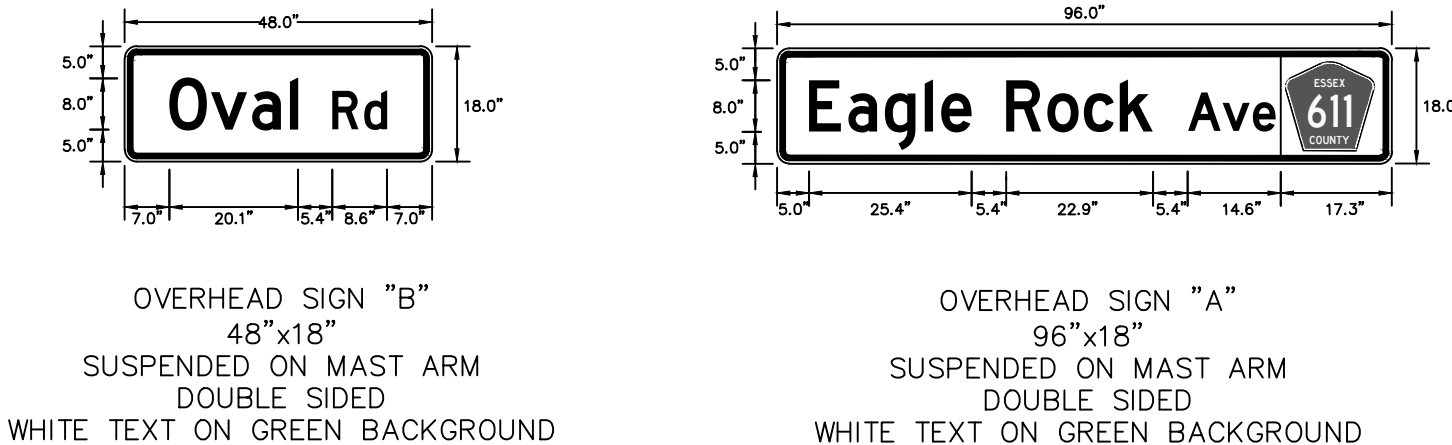
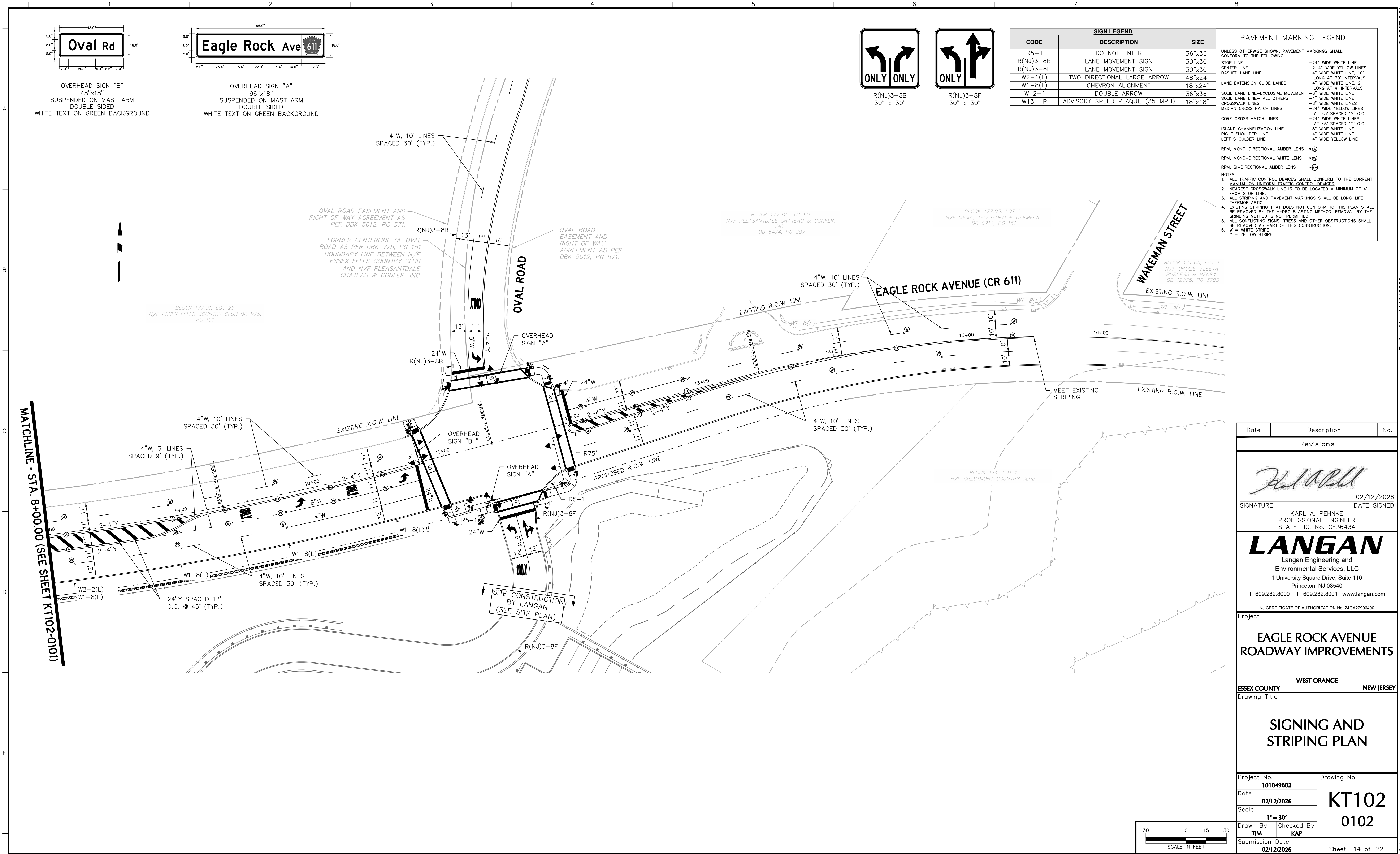


SIGN LEGEND		
CODE	DESCRIPTION	SIZE
M1-6	COUNTY ROUTE	24"x24"
M2-1P	JUNCTION (PLAQUE)	21"x15"
M3-2P	EAST (PLAQUE)	24"x12"
M3-4P	WEST (PLAQUE)	24"x12"
M6-1P	DIRECTIONAL ARROW (PLAQUE)	21"x15"
M6-3P	DIRECTIONAL ARROW (PLAQUE)	21"x15"
OM3-R	OBJECT MARKER	12"x36"
R3-1	NO RIGHT TURN	36"x36"
R3-4	MOVEMENT PROHIBITION (U-TURN)	36"x36"
R3-7L	LEFT LANE MUST TURN LEFT	36"x36"
R4-7	KEEP RIGHT	24"x30"
R(NJ)7-4X	NO STOPPING OR STANDING	12"x18"
W1-2	HORIZONTAL ALIGNMENT	36"x36"
W1-7	TWO DIRECTIONAL LARGE ARROW	48"x24"
W1-8(L)	CHEVRON ALIGNMENT	18"x24"
W12-1	DOUBLE ARROW	36"x36"
W13-1P	ADVISORY SPEED PLAQUE (35 MPH)	18"x18"

PAVEMENT MARKING LEGEND	
UNLESS OTHERWISE SHOWN, PAVEMENT MARKINGS SHALL CONFORM TO THE FOLLOWING:	
STOP LINE	-24" WIDE WHITE LINE
CENTER LINE	-2-4" WIDE YELLOW LINES
DASHED LANE LINE	-4" WIDE WHITE LINE, 10' LONG AT 30' INTERVALS
LANE EXTENSION GUIDE LINES	-4" WIDE WHITE LINE, 2' LONG AT 4' INTERVALS
SOLID LANE LINE-EXCLUSIVE MOVEMENT	-8" WIDE WHITE LINE
SOLID LANE LINE- ALL OTHERS	-4" WIDE WHITE LINE
CROSSWALK LINES	-8" WIDE WHITE LINES
MEDIAN CROSS HATCH LINES	-24" WIDE YELLOW LINES
GORE CROSS HATCH LINES	-AT 45° SPACED 12' O.C.
ISLAND CHANNELIZATION LINE	-24" WIDE WHITE LINES
RIGHT SHOULDER LINE	-AT 45° SPACED 12' O.C.
LEFT SHOULDER LINE	-8" WIDE WHITE LINE
	-4" WIDE WHITE LINE
	-4" WIDE YELLOW LINE
RPM, MONO-DIRECTIONAL AMBER LENS	⦿A
RPM, MONO-DIRECTIONAL WHITE LENS	⦿B
RPM, BI-DIRECTIONAL AMBER LENS	⦿B2
NOTES:	
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.	
2. NEAREST CROSSWALK LINE IS TO BE LOCATED A MINIMUM OF 4' FROM STOP LINE.	
3. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE LONG-LIFE THERMOPLASTIC.	
4. EXISTING STRIPING THAT DOES NOT CONFORM TO THIS PLAN SHALL BE REMOVED BY THE HYDRO BLASTING METHOD. REMOVAL BY THE GRINDING METHOD IS NOT PERMITTED.	
5. ALL CONFLICTING SIGNS, TRESS AND OTHER OBSTRUCTIONS SHALL BE REMOVED AS PART OF THIS CONSTRUCTION.	
6. W = WHITE STRIPE	
Y = YELLOW STRIPE	

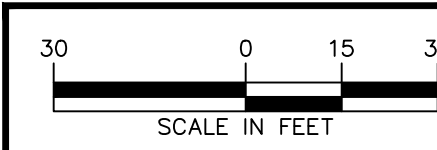
Date	Description	No.
Revisions		
		
SIGNATURE	KARL A. PEHNKE PROFESSIONAL ENGINEER STATE LIC. No. GE36434	02/12/2026 DATE SIGNED
LANGAN Langan Engineering and Environmental Services, LLC 1 University Square Drive, Suite 110 Princeton, NJ 08540 T: 609.282.8000 F: 609.282.8001 www.langan.com		
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400		
Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE ESSEX COUNTY NEW JERSEY		
Drawing Title		
SIGNING AND STRIPING PLAN		
Project No.	Drawing No.	
101049802	KT102	
Date	02/12/2026	
Scale	1" = 30'	
Drawn By	TJM	Checked By
Submission Date	02/12/2026	
Sheet 13 of 22		



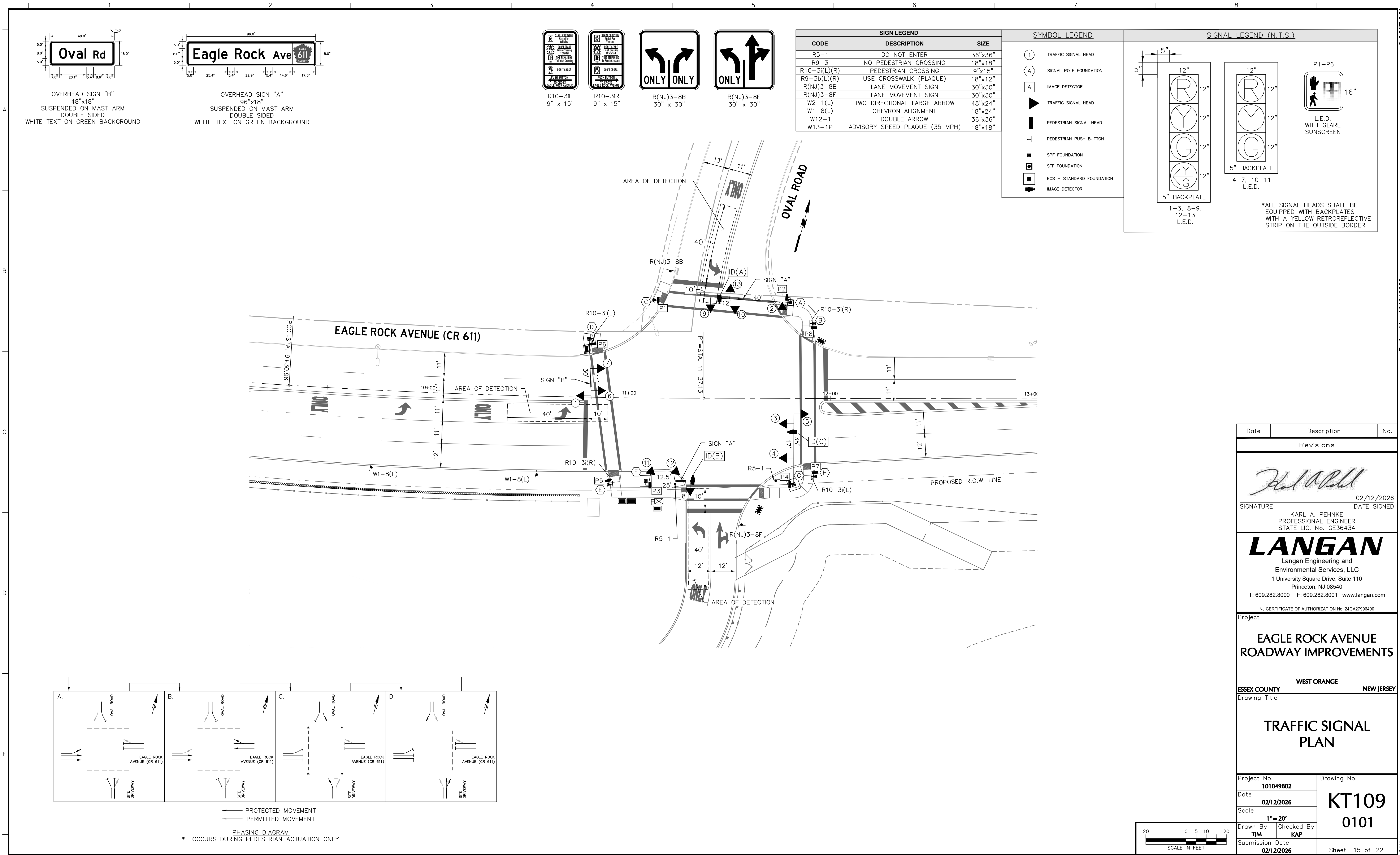


SIGN LEGEND		
CODE	DESCRIPTION	SIZE
R5-1	DO NOT ENTER	36"x36"
R(NJ)3-8B	LANE MOVEMENT SIGN	30"x30"
R(NJ)3-8F	LANE MOVEMENT SIGN	30"x30"
W2-1(L)	TWO DIRECTIONAL LARGE ARROW	48"x24"
W1-8(L)	CHEVRON ALIGNMENT	18"x24"
W12-1	DOUBLE ARROW	36"x36"
W13-1P	ADVISORY SPEED PLAQUE (35 MPH)	18"x18"

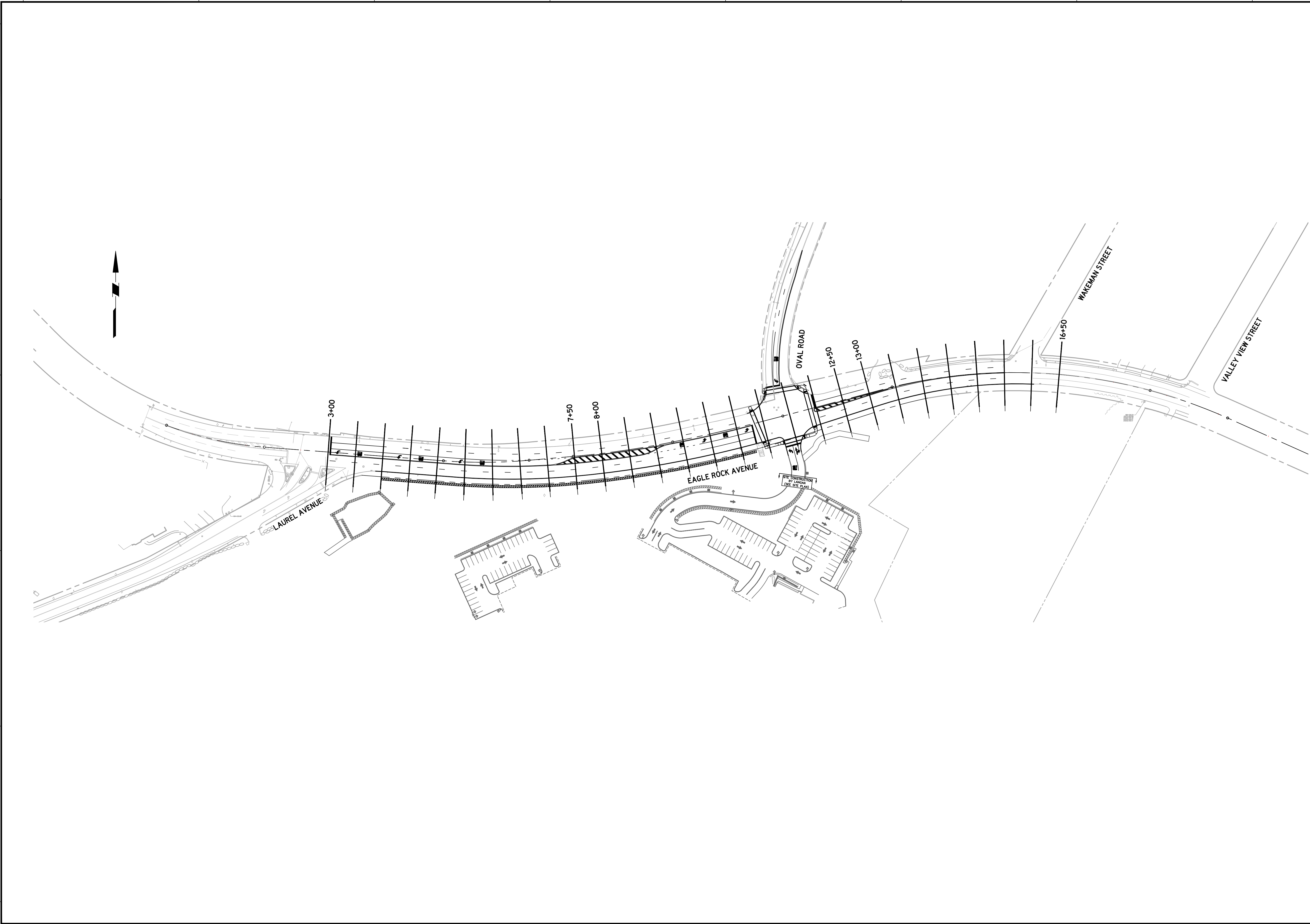
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UNLESS OTHERWISE SHOWN, PAVEMENT MARKINGS SHALL CONFORM TO THE FOLLOWING:	
STOP LINE	-24" WIDE WHITE LINE
CENTER LINE	-2-4" WIDE YELLOW LINES
DASHED LANE LINE	-4" WIDE WHITE LINE, 10' LONG AT 30' INTERVALS
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SOLID LANE LINE-EXCLUSIVE MOVEMENT	-8" WIDE WHITE LINE
SOLID LANE LINE- ALL OTHERS	-4" WIDE WHITE LINE
CROSSWALK LINES	-8" WIDE WHITE LINES
MEDIAN CROSS HATCH LINES	-24" WIDE YELLOW LINES AT 45' SPACED 12' O.C.
GORE CROSS HATCH LINES	-24" WIDE WHITE LINES AT 45' SPACED 12' O.C.
ISLAND CHANNELIZATION LINE	-8" WIDE WHITE LINE
RIGHT SHOULDER LINE	-4" WIDE WHITE LINE
LEFT SHOULDER LINE	-4" WIDE YELLOW LINE
RPM, MONO-DIRECTIONAL AMBER LENS	⊙A
RPM, MONO-DIRECTIONAL WHITE LENS	⊙B
RPM, BI-DIRECTIONAL AMBER LENS	⊙E
NOTES:	
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.	
2. NEAREST CROSSWALK LINE IS TO BE LOCATED A MINIMUM OF 4' FROM STOP LINE.	
3. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE LONG-LIFE THERMOPLASTIC.	
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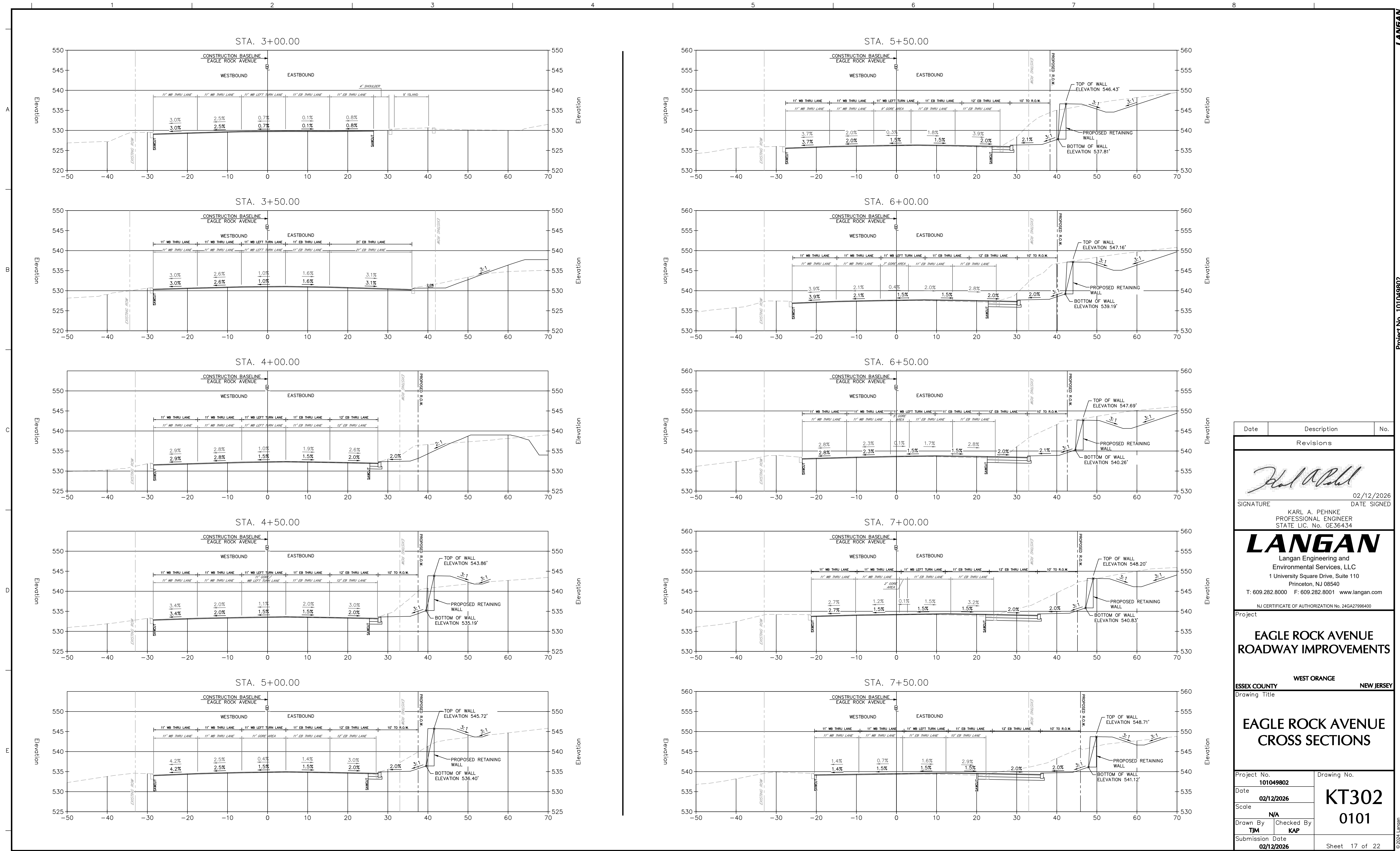
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Revisions		
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Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE NEW JERSEY		
ESSEX COUNTY		
Drawing Title		
SIGNING AND STRIPING PLAN		
Project No.	101049802	Drawing No.
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Scale	1" = 30'	
Drawn By	TJM	Checked By
Submission Date	02/12/2026	
		Sheet 14 of 22



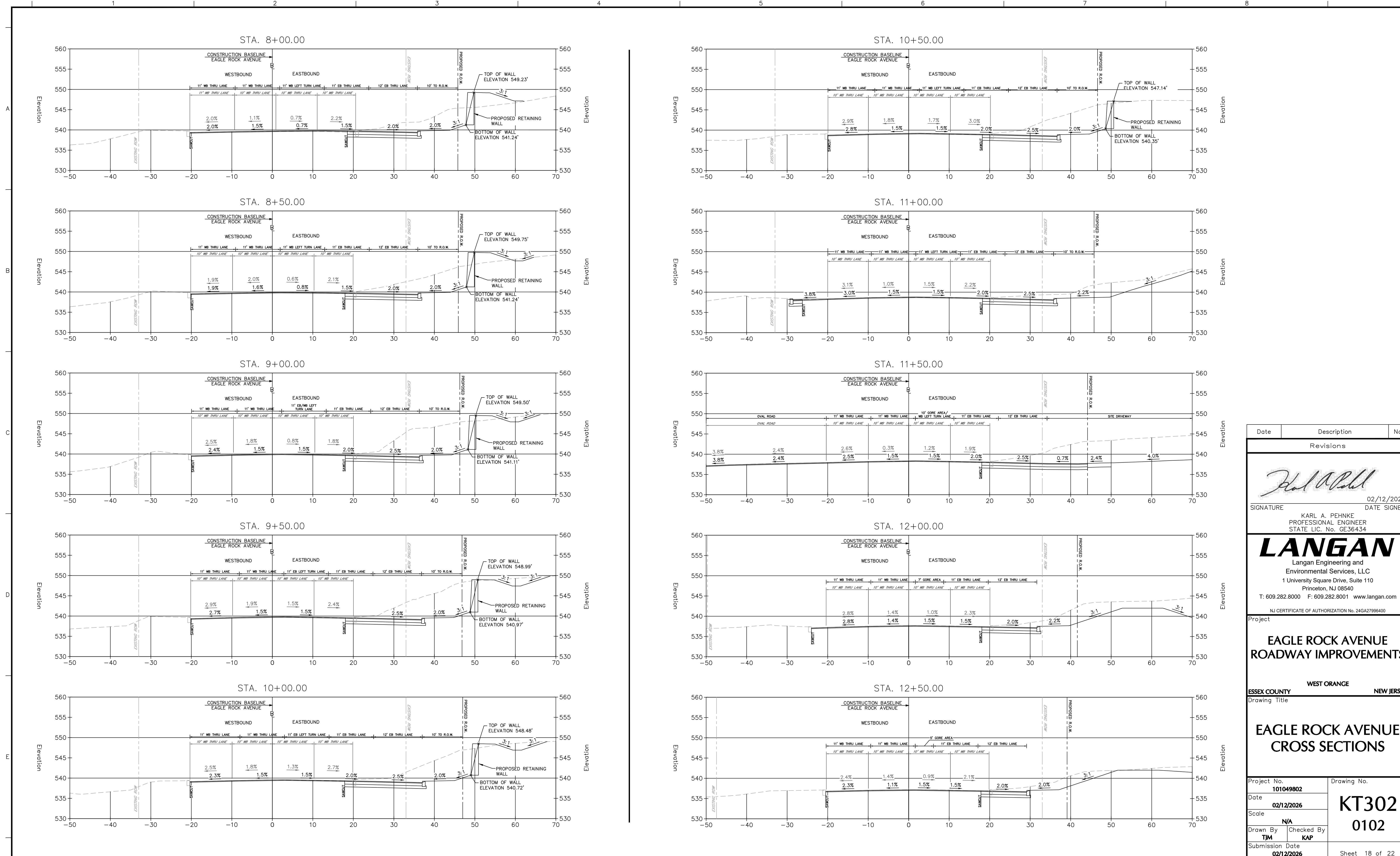
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Project EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
ESSEX COUNTY WEST ORANGE NEW JERSEY Drawing Title TRAFFIC SIGNAL PLAN		
Project No. 101049802		Drawing No. KT109 0101
Date 02/12/2026		
Scale 1" = 20'		Sheet 15 of 22
Drawn By TJM Checked By KAP		
Submission Date 02/12/2026		



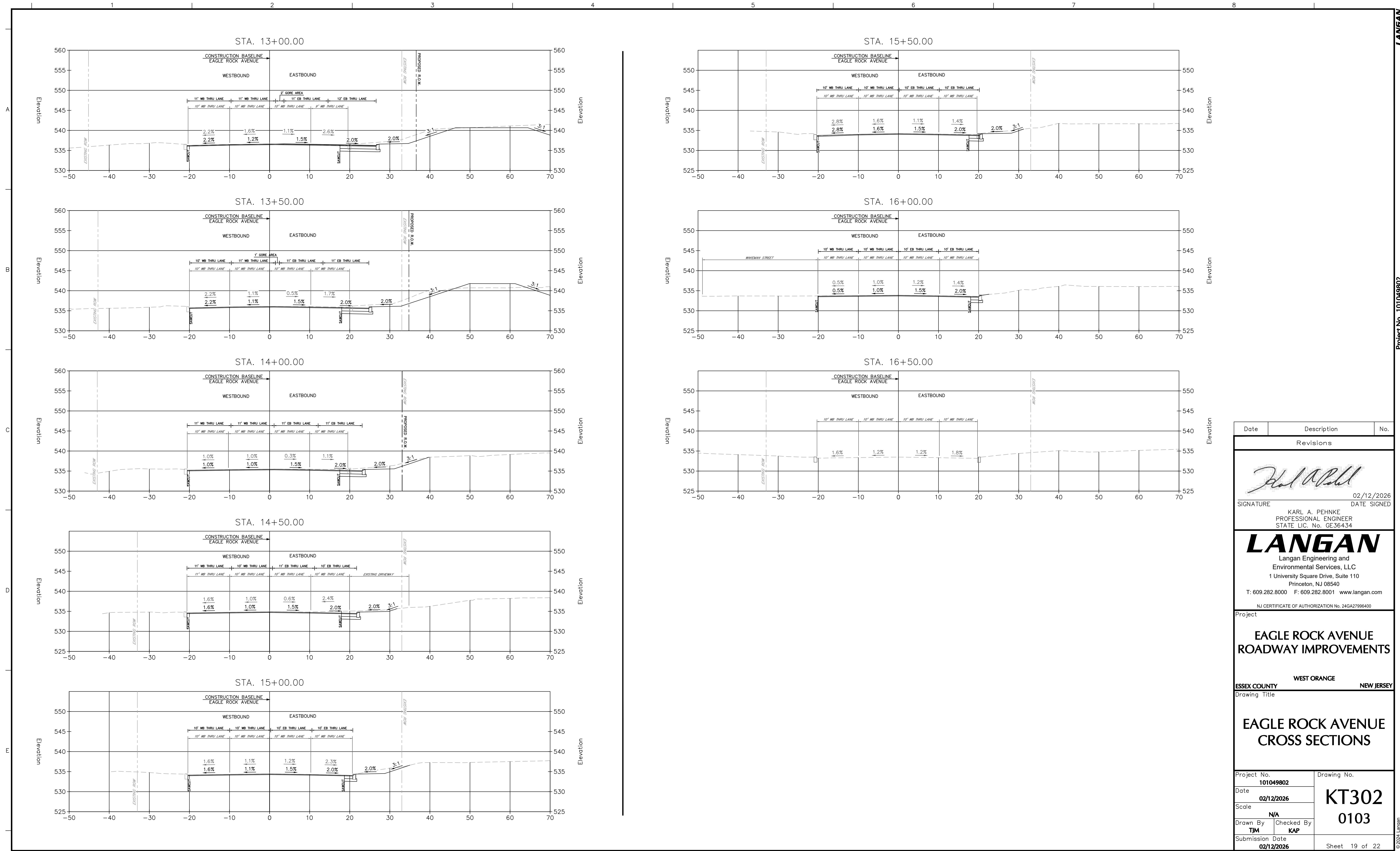
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Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
ESSEX COUNTY WEST ORANGE NEW JERSEY		
Drawing Title		
METHOD OF SECTIONS		
Project No. 101049802		Drawing No. KT003 0102
Date 02/12/2026		
Scale N/A		
Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026		Sheet 16 of 22



Date	Description	No.
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Project		
EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS WEST ORANGE ESSEX COUNTY NEW JERSEY Drawing Title		
EAGLE ROCK AVENUE CROSS SECTIONS		
Project No. 101049802		Drawing No. KT302 0101
Date 02/12/2026		
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Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026		
Sheet		17 of 22



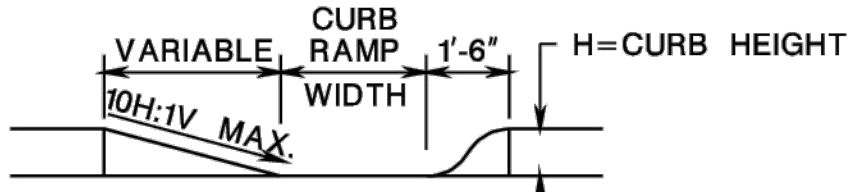
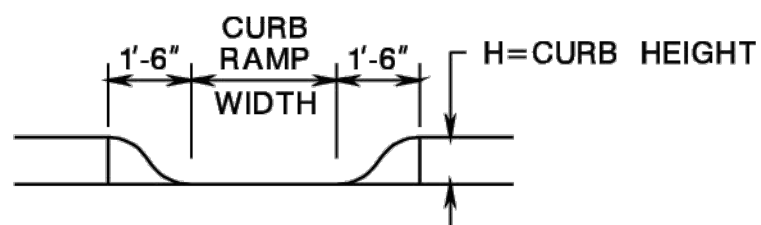
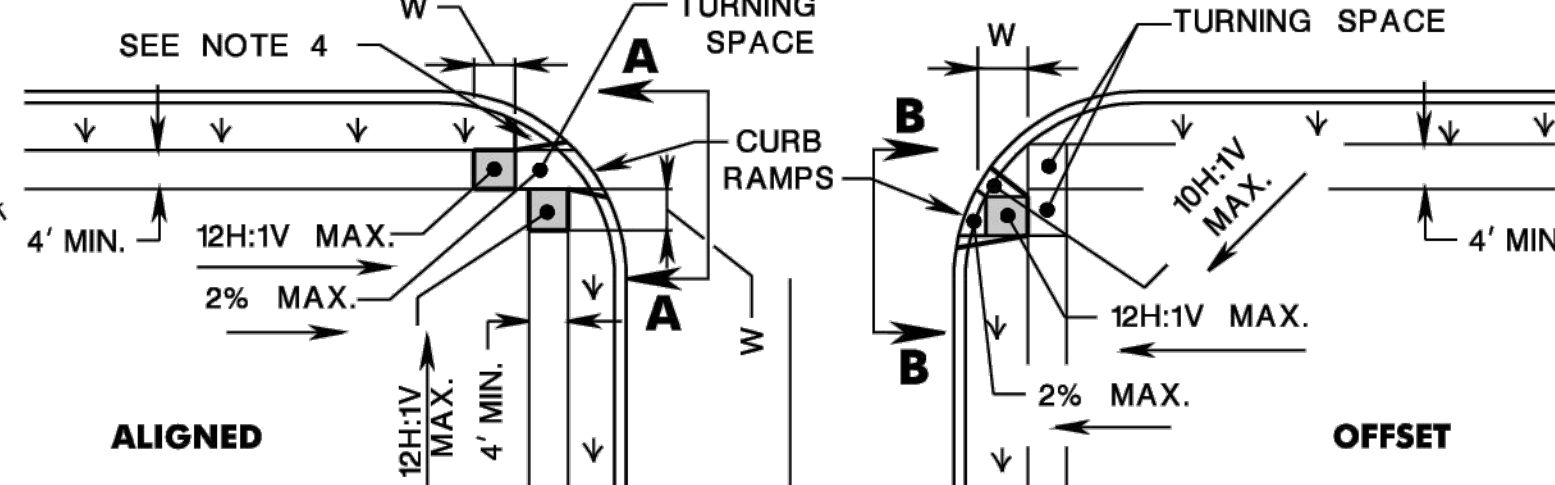
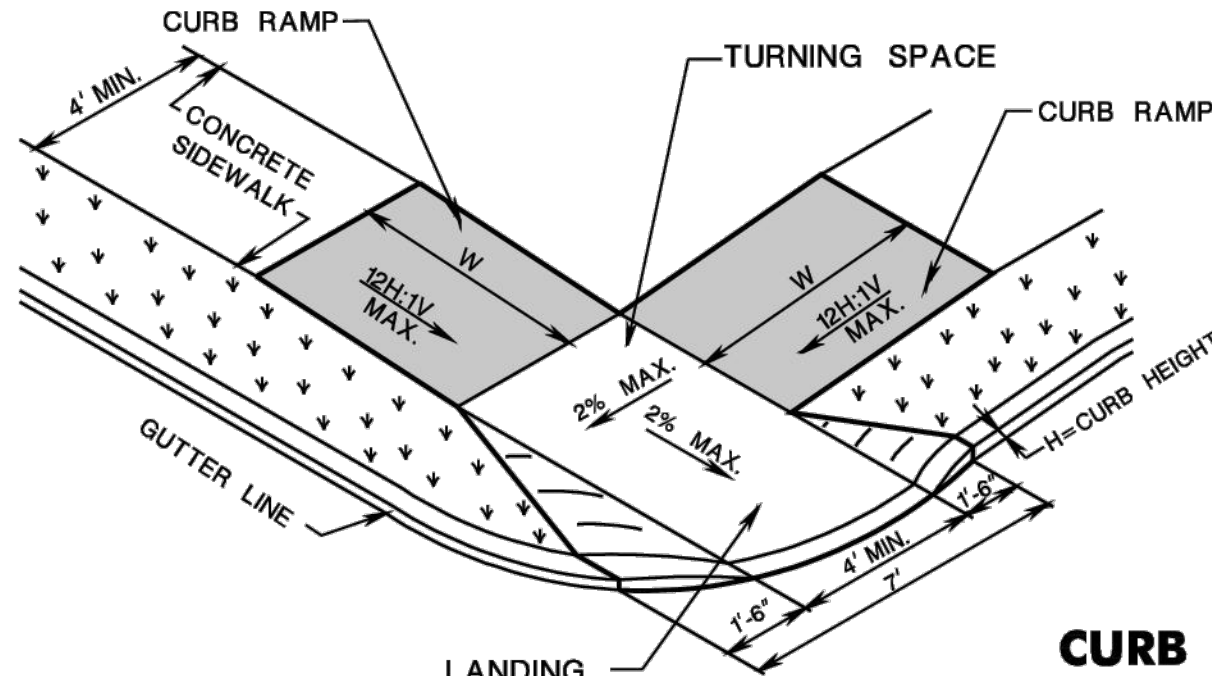
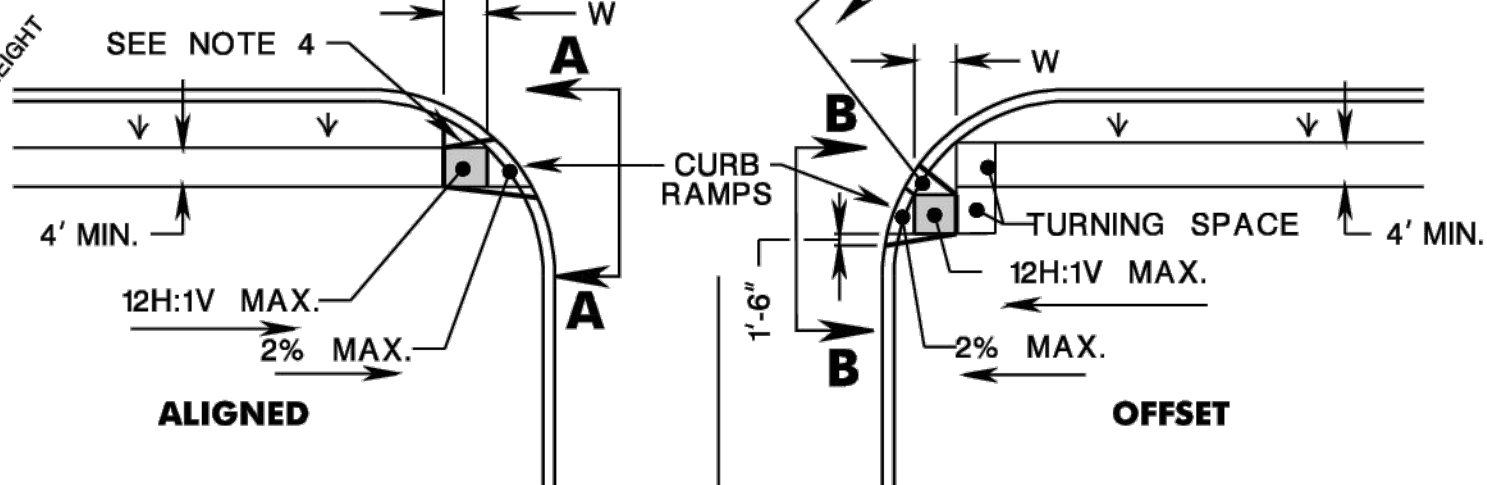
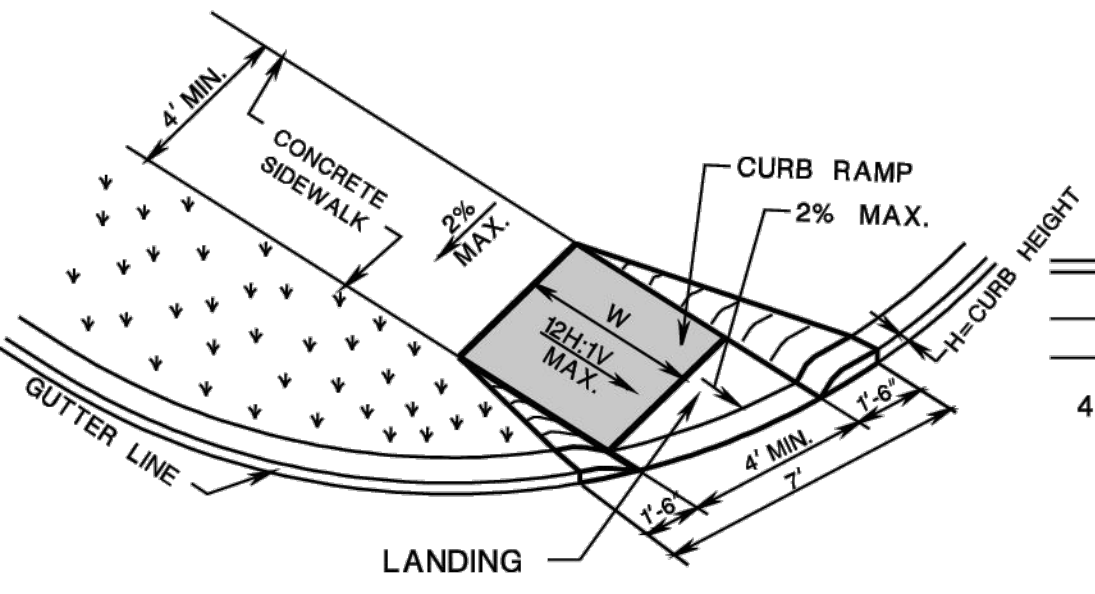
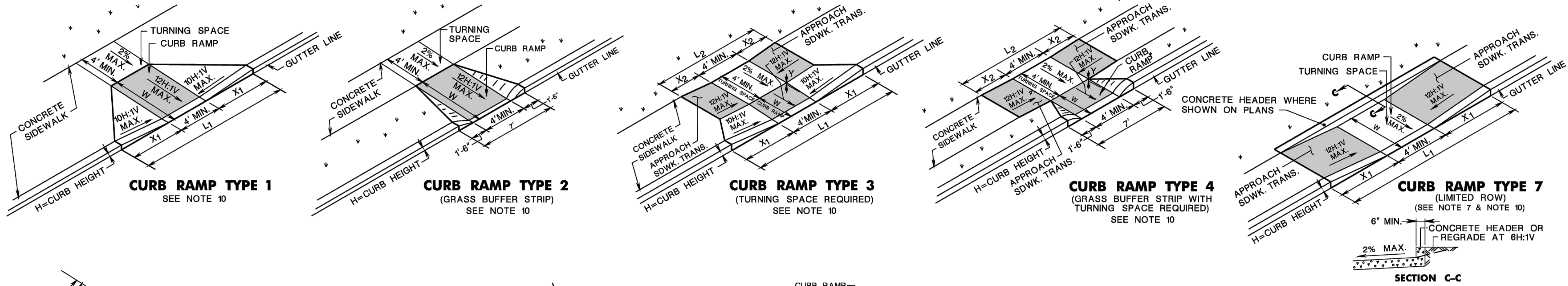
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EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE NEW JERSEY		
ESSEX COUNTY		
Drawing Title		
EAGLE ROCK AVENUE CROSS SECTIONS		
Project No. 101049802		Drawing No. KT302 0102
Date 02/12/2026		
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Submission Date 02/12/2026		Sheet 18 of 22



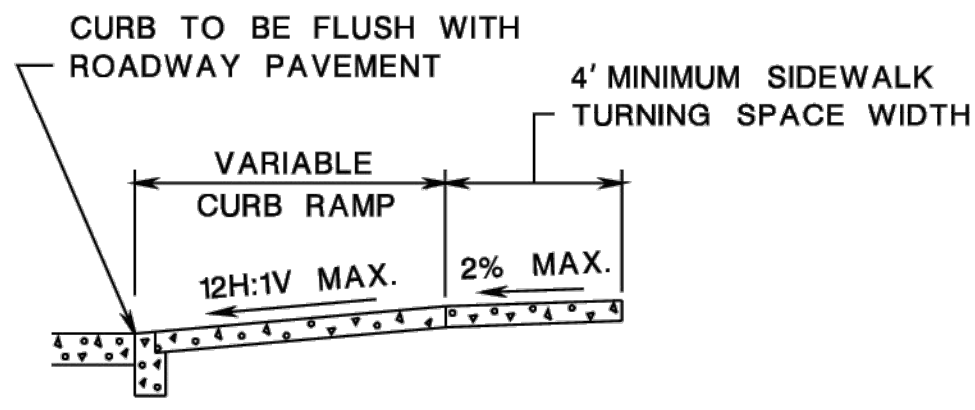
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EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE ESSEX COUNTY NEW JERSEY		
DRAWING TITLE		
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PROJECT NO.		DRAWING NO.
101049802		KT302
DATE		02/12/2026
SCALE		N/A
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TJM		KAP
SUBMISSION DATE		SHEET
02/12/2026		19 OF 22

A
B
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E

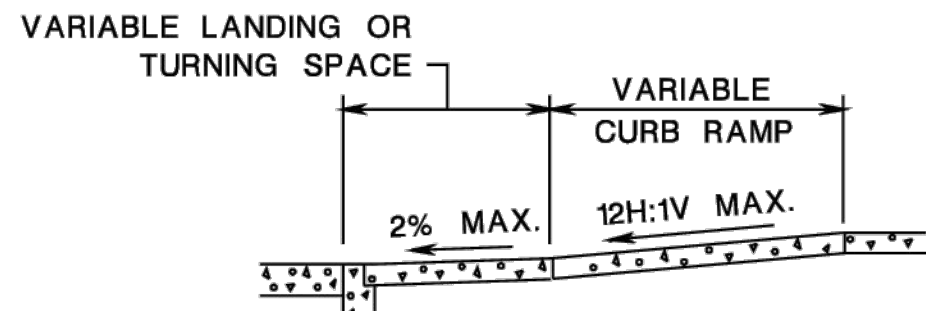
Project No. 101049802



NOTE:
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY PAVEMENT (CURB RAMP TYPES 5 & 6).

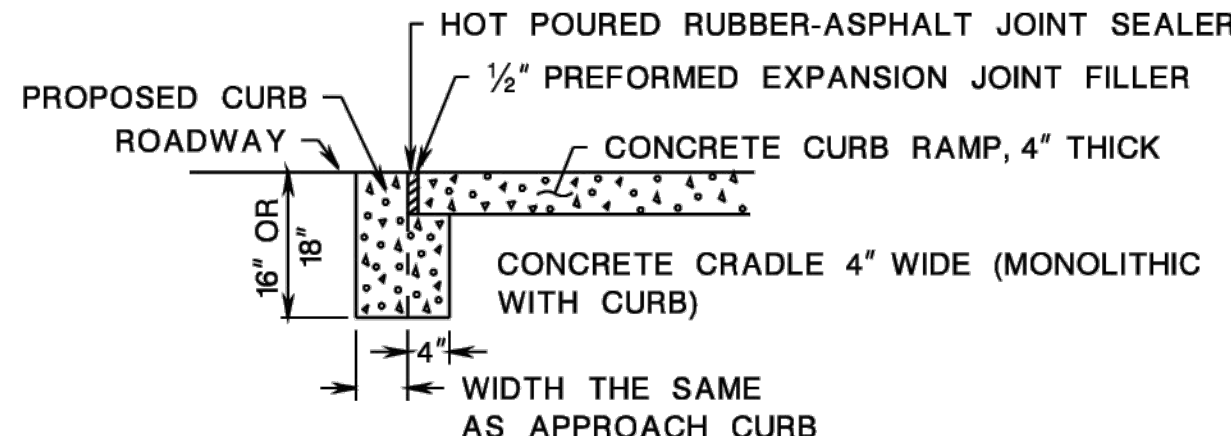


SECTION THROUGH CURB RAMPS 1 THROUGH 4



SECTION THROUGH CURB RAMPS 5 AND 6

- NOTES:**
- KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
 - FOR DIMENSIONS SEE CD-606-3 AND CD-606-4.
 - CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT THE ENTIRE WIDTH OF THE RAMP (4 FEET MIN.) AT ALL CURB RAMPS.
 - FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
 - SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
 - CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
 - WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, USE CURB RAMP TYPE 7, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
 - CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
 - THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X_2 IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
 - CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN.



DROPPED CURB AND CRADLE

CONCRETE SIDEWALK
(PUBLIC SIDEWALK CURB RAMP)
N.T.S.

CD-606-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION

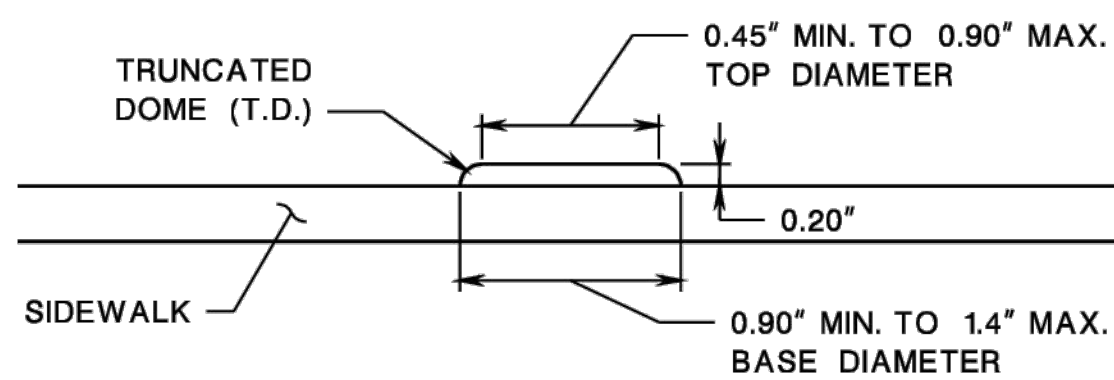
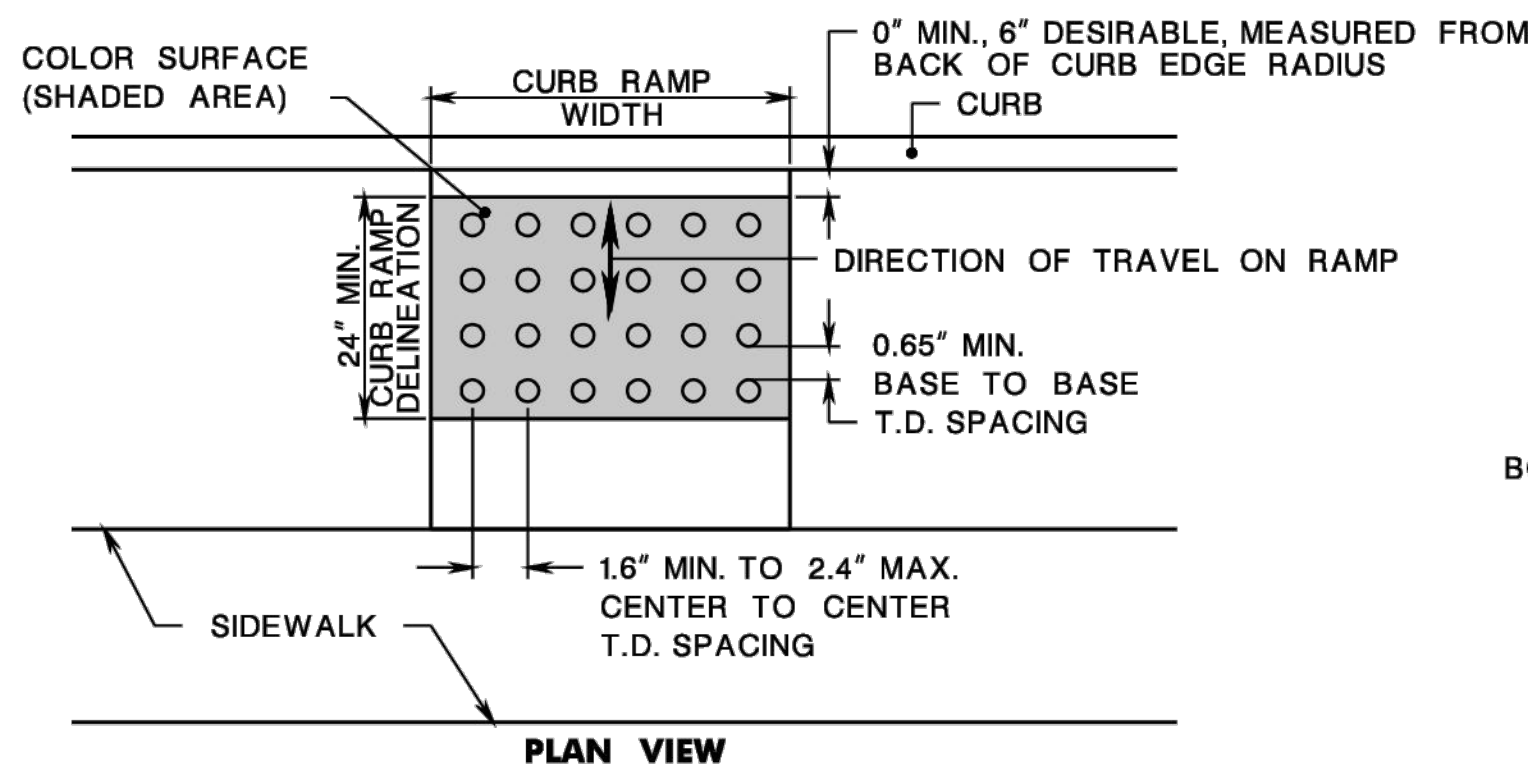
CONSTRUCTION DETAILS

CURB RAMPS

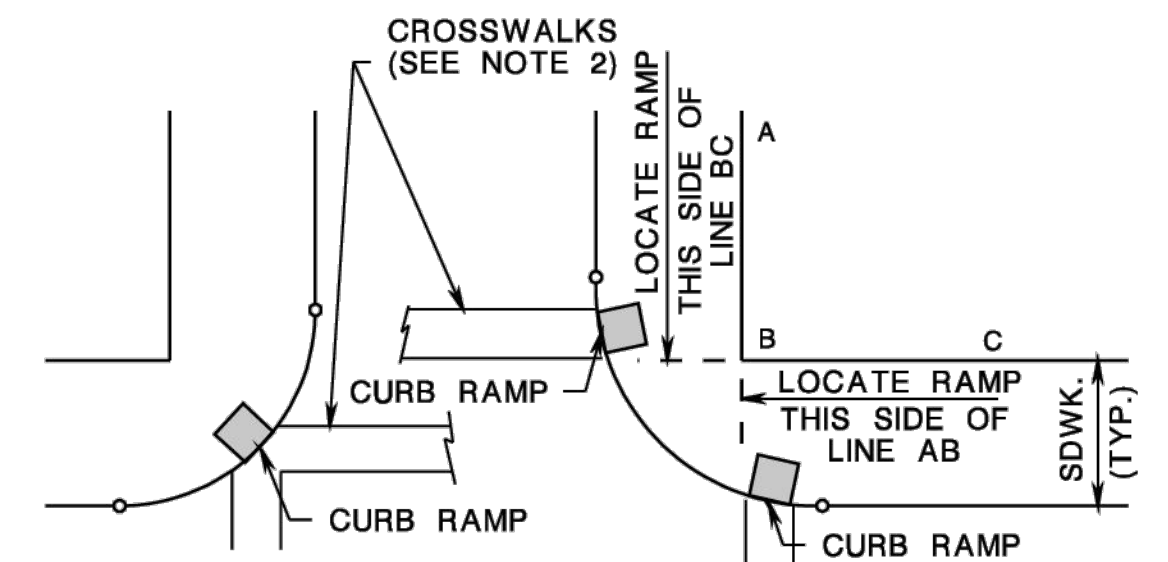
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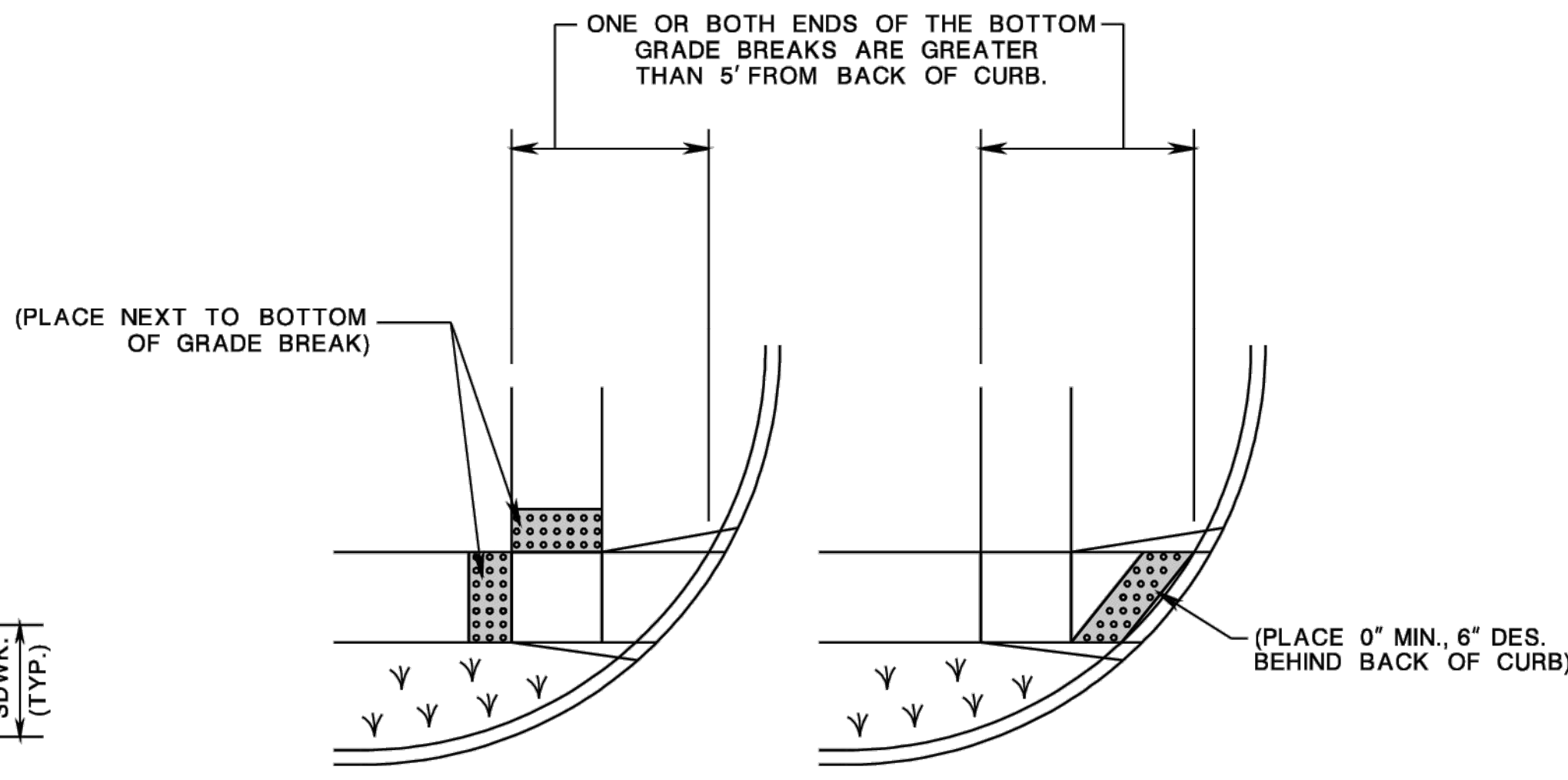
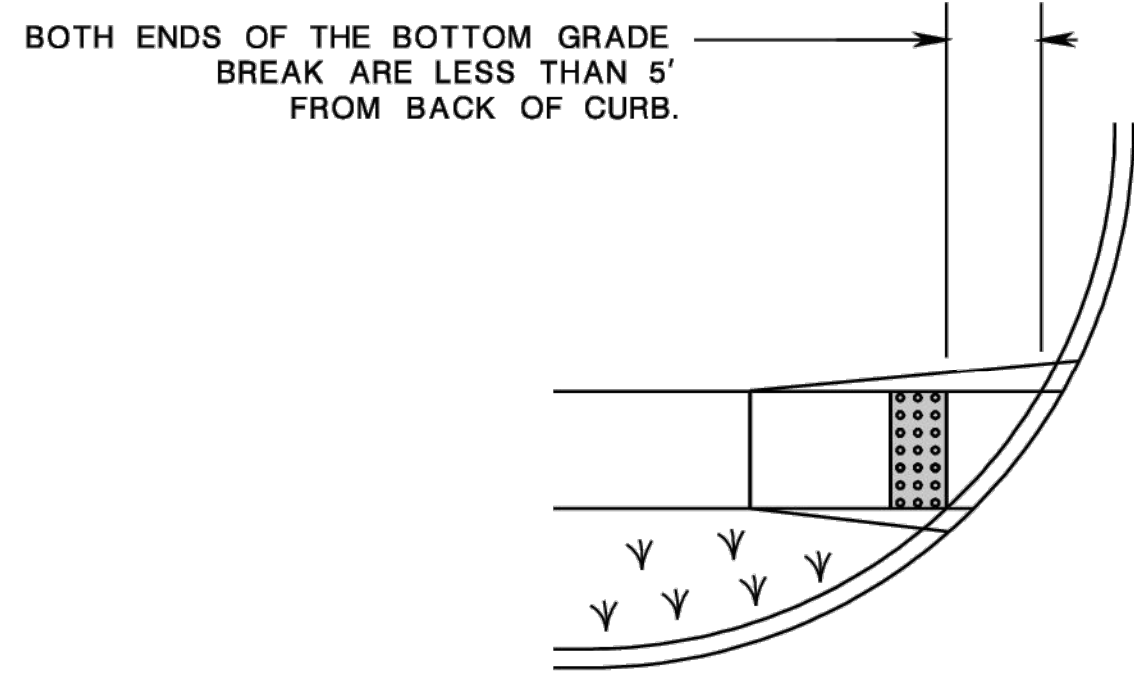
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LANGAN Langan Engineering and Environmental Services, LLC 1 University Square Drive, Suite 110 Princeton, NJ 08540 T: 609.282.8000 F: 609.282.8001 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27986400		
Project EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
WEST ORANGE ESSEX COUNTY NEW JERSEY		
Drawing Title CONSTRUCTION DETAILS		
Project No. 101049802	Drawing No. KT501 0102	
Date 02/12/2026		
Scale N/A		
Drawn By TJM	Checked By KAP	
Submission Date 02/12/2026	Sheet 21 of 22	



DETECTABLE WARNING SURFACE

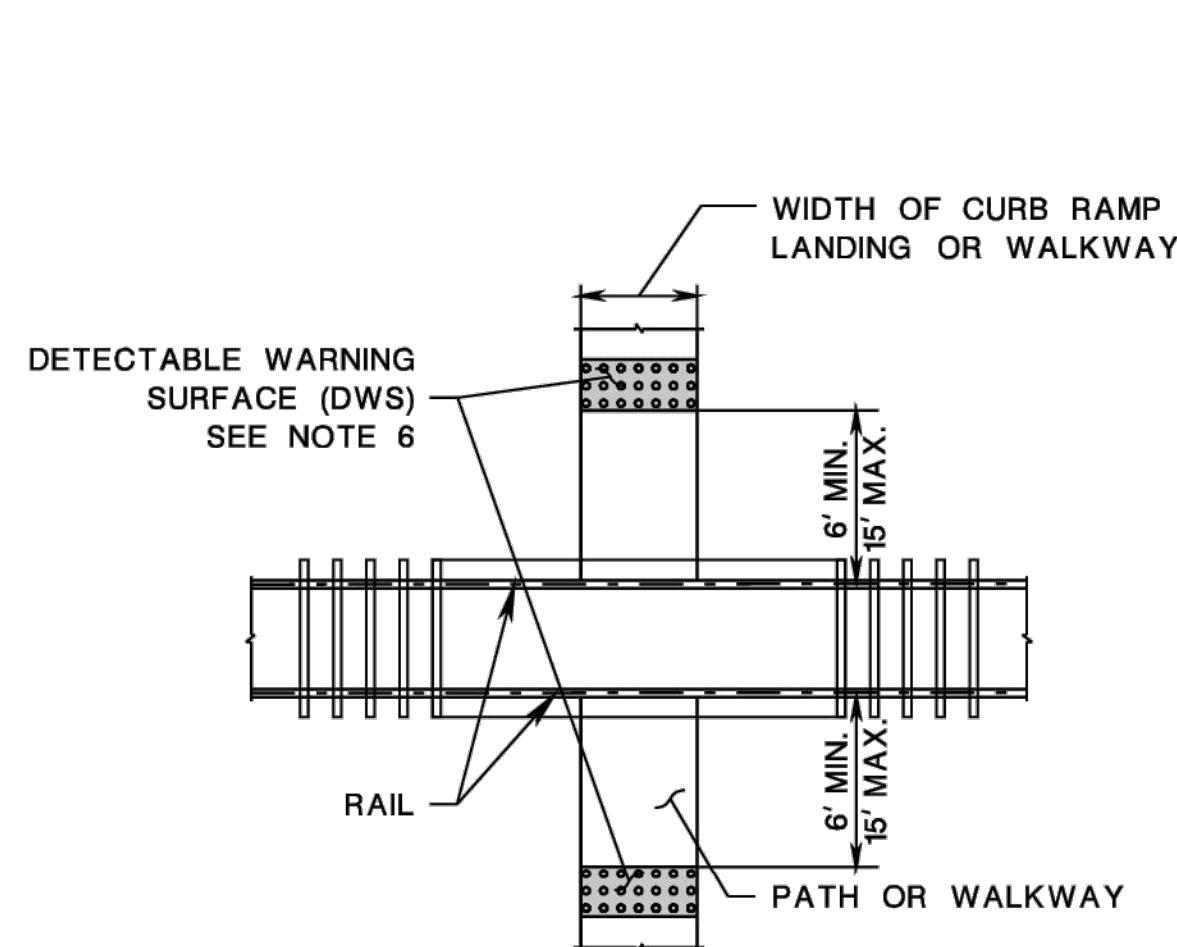


LOCATION OF CURB RAMP TYPES 1, 2, 3, 4, & 7 FOR CROSSING PARALLEL AND PERPENDICULAR TO HIGHWAY

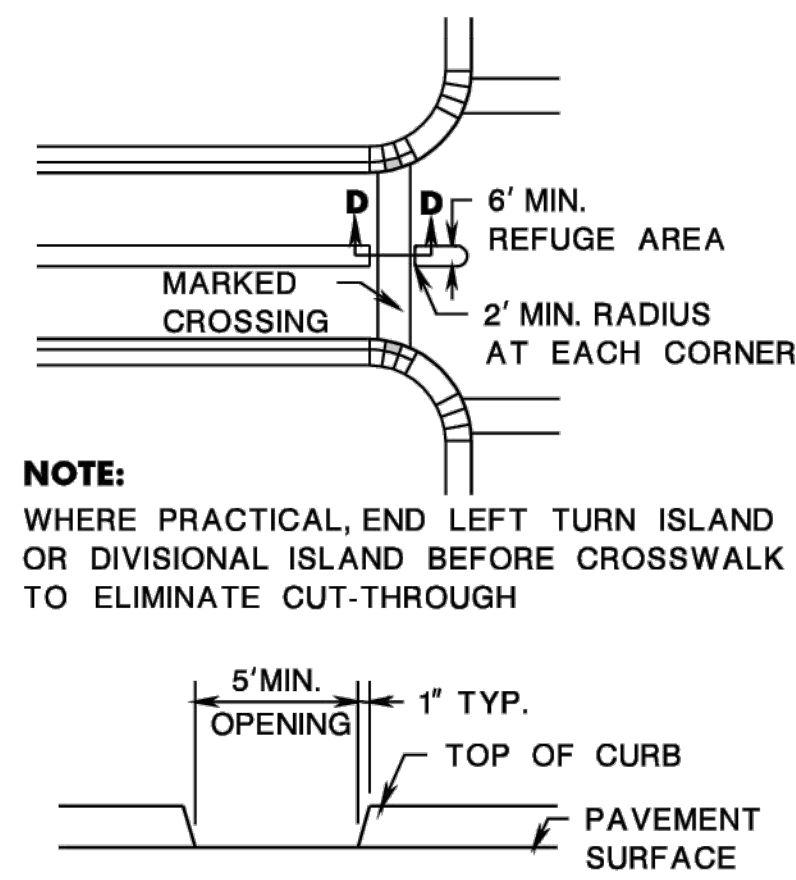


PLACEMENT OF DETECTABLE WARNING SURFACE FOR CURB RAMP TYPE 5 AND 6

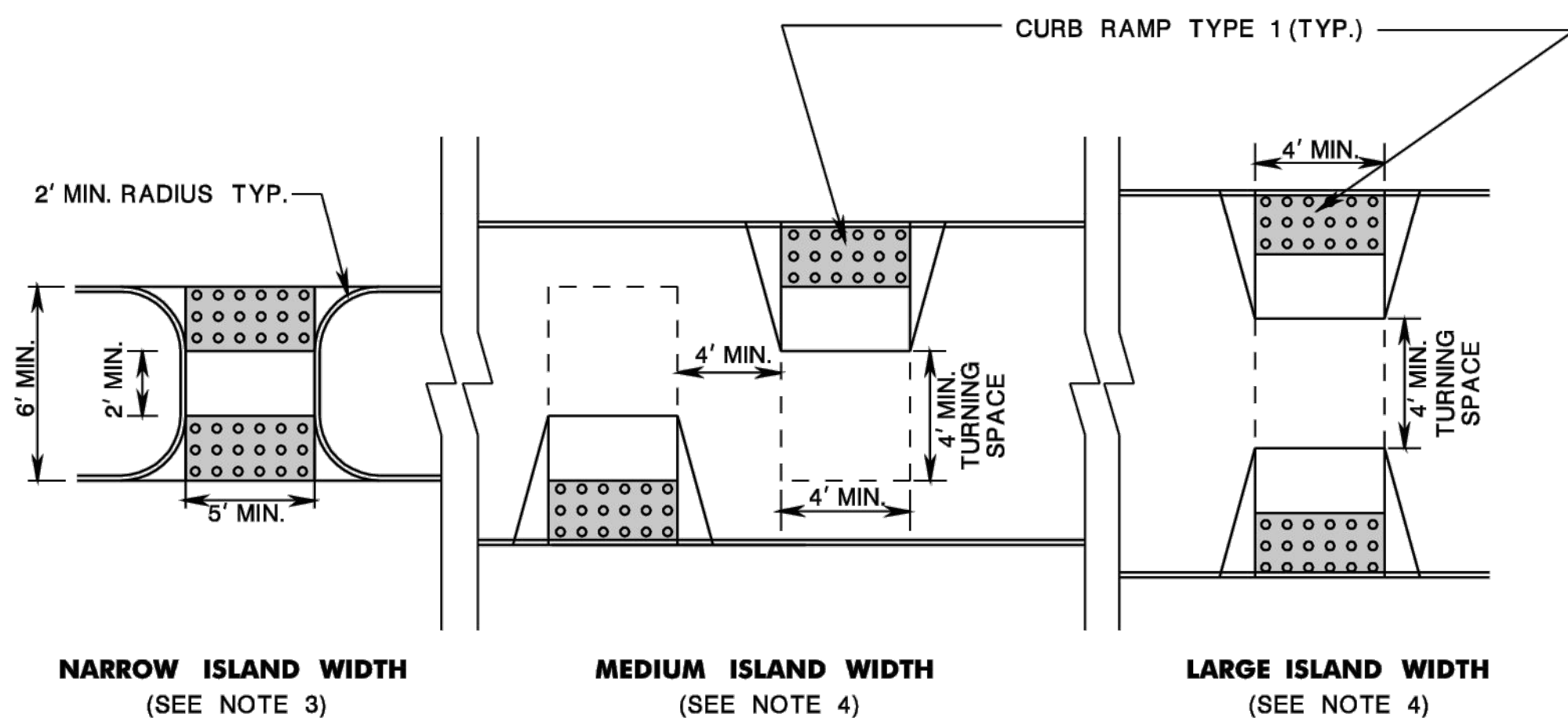
- NOTES:**
- KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
 - CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
 - FOR NARROW ISLAND WIDTH, SEE PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS DETAIL.
 - FOR MEDIUM AND LARGE ISLAND WIDTH, SEE CURB RAMP TYPE 1 ON CD-606-1.
 - CONSTRUCT CURB RAMP TYPES 1, 2, 3, 4, & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.
 - IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FROM THE RAIL.
 - A STANDARD DETECTABLE WARNING (DWS) SURFACE IS NOT AVAILABLE TO FIT THIS APPLICATION, AND THEREFORE ONE WILL NEED TO BE CUSTOMIZED. THE DWS SHOULD COVER THE ENTIRE WIDTH OF THE RAMP. THE ROWS OF DOMES ON THE DWS SHOULD FOLLOW THE DIRECTION OF TRAVEL OF THE RAMP, SO PEDESTRIANS WHO USE MOBILE DEVICES CAN TRACK BETWEEN THE DOMES.



PEDESTRIAN RAILROAD CROSSING



PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS



PEDESTRIAN REFUGE ISLAND

DETECTABLE WARNING SURFACE N.T.S.

CD-606-2

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

53
164

Date	Description	No.
Revisions		
 SIGNATURE KARL A. PEHNKE PROFESSIONAL ENGINEER STATE LIC. No. GE36434 02/12/2026 DATE SIGNED		
LANGAN Langan Engineering and Environmental Services, LLC 1 University Square Drive, Suite 110 Princeton, NJ 08540 T: 609.282.8000 F: 609.282.8001 www.langan.com NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400		
Project EAGLE ROCK AVENUE ROADWAY IMPROVEMENTS		
ESSEX COUNTY WEST ORANGE NEW JERSEY Drawing Title CONSTRUCTION DETAILS		
Project No. 101049802	Drawing No. KT501 0103	
Date 02/12/2026	KT501 0103	
Scale N/A		
Drawn By TJM		
Submission Date 02/12/2026		
Checked By KAP	Sheet 22 of 22	