

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	1
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

CONTRACT NO. 61C88

# PLAN FOR PROPOSED FEDERAL AID HIGHWAY

ON-STREET BICYCLE FACILITIES  
VARIOUS LOCATIONS  
BICYCLE ROUTE SIGNS AND  
PAVEMENT MARKING INSTALLATION

SECTION NO. 15-00124-00-BT  
PROJECT NO. TE-01D1(030)

CITY OF HIGHLAND PARK  
LAKE COUNTY

JOB NO. C-91-166-16

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF IDOT HIGHWAY STANDARDS, SEE SHEET NO. 2



LOCATION OF SECTION INDICATED THUS:

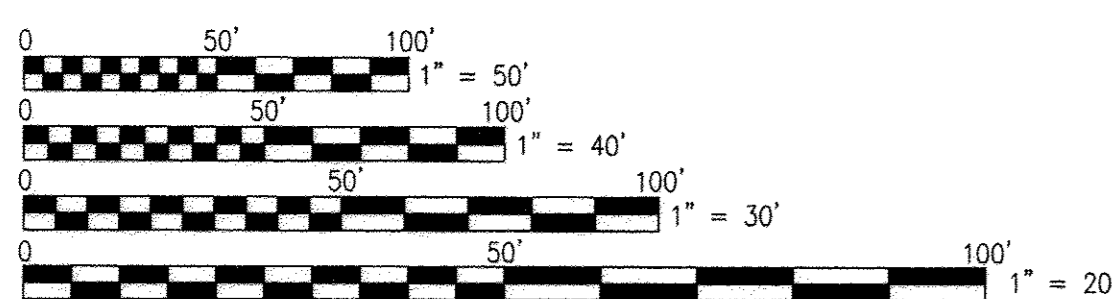
**DESIGN DESIGNATION:**

VARIOUS ROUTES  
ADT = 500-9000  
POSTED/DESIGN SPEED = 25-40 MPH

PROJECT LOCATED IN THE  
CITY OF HIGHLAND PARK

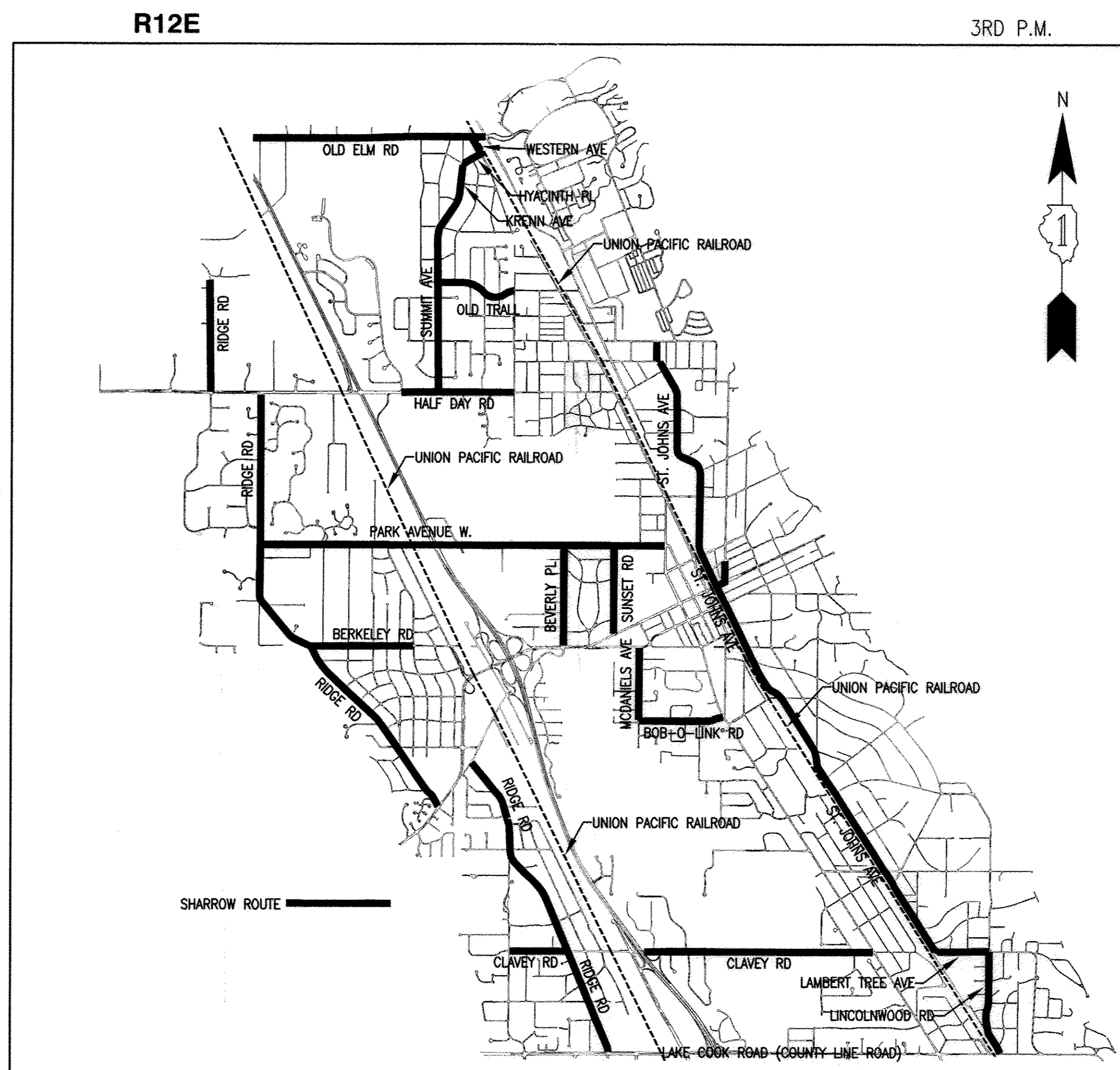
J.U.L.I.E.

FOR UNDERGROUND UTILITY LOCATION  
CALL J.U.L.I.E. TOLL FREE  
PHONE NO.: 811



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES.  
REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING  
MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL



CONTRACT NO. 61C88

## LOCATION MAP

GROSS/NET LENGTH 93,931 L.F. = (17.789 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Approved July 19 2016  
*K. Paul Kr*  
CITY OF HIGHLAND PARK DIRECTOR OF PUBLIC WORKS

Passed July 21 2016  
*C. Holt* CHRISTOPHER HOLT  
DISTRICT #1 ENGINEER OF LOCAL ROADS AND STREETS

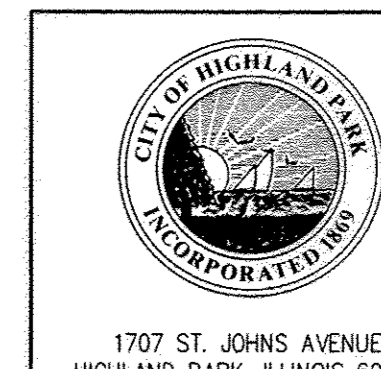
Releasing for Bid  
Based on Limited  
Review July 21 2016  
*John F. Johnson*  
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

*Jason R. Doland*  
JASON R. DOLAND, P.E., P.L.S.  
ILLINOIS REGISTERED PROFESSIONAL ENGINEER  
NO. 062055693 (LICENSE EXPIRES 11-30-17)



PLANS PREPARED BY: DOLAND ENGINEERING, LLC.  
PROFESSIONAL DESIGN FIRM NO. 184-006022



DOLAND  
ENGINEERING, LLC  
CIVIL ENGINEERING - LAND SURVEYING - LAND PLANNING  
334 EAST COLEMAN STREET, SUITE C  
PALATINE, ILLINOIS 60067  
(847) 991-5088 (847) 934-3427 FAX  
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1707 ST. JOHNS AVENUE  
HIGHLAND PARK, ILLINOIS 60035

**GENERAL NOTES:**

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED APRIL 1, 2016; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS, AND IDOT STANDARD DRAWINGS INCLUDED IN THE CONTRACT DOCUMENTS, THE AMERICANS WITH DISABILITIES ACT OF 1990 ACCESSIBILITY GUIDELINES, THE "DRAFT" REHABILITATION ACT OF 1973 (SECTION 504), AND THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES.

MATERIALS AND EQUIPMENT SHALL NOT BE STORED WITHIN THE PROJECT LIMITS.

**COORDINATION:**

THE ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. SPECIAL ATTENTION IS CALLED TO ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION. THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE PARKWAYS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY OF HIGHLAND PARK 72 HOURS PRIOR TO ANY WORK IN ORDER TO OBTAIN MUNICIPAL UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO CONTACT THE CITY PUBLIC WORKS DEPARTMENT UTILITY DIVISION FOR ALL WATER MAIN SHUTOFFS. UNDER NO CONDITION SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS WITHIN THE PROJECT AREA.

THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.

**UTILITY COORDINATION:**

THIS PROJECT HAS LIMITED PROPOSED EXCAVATION FOR INLET REMOVAL IN PAVEMENT. SIGN POSTS SHALL BE MARKED BY THE CONTRACTOR AND THEN COORDINATED WITH UTILITIES AS PER THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

**TRAFFIC CONTROL AND PROTECTION:**

DURING EACH DAY OF PAVEMENT MARKINGS, THE CONTRACTOR SHALL CONSTRUCT THE PROJECT IN THE DIRECTION OF TRAVEL AND END AT A SIDE-STREET. CONTRACTOR SHALL MAINTAIN, AT ALL TIMES, AT LEAST ONE LANE IN EACH DIRECTION OF PERMITTED TRAVEL AND ALL TURN LANES. PAVEMENT MARKINGS SHALL BE INSTALLED AHEAD OF ALL SIGNAGE.

ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. IN ADDITION, ANY SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION BEYOND REPAIR SHALL BE REPLACED IN KIND BY THE CONTRACTOR AND TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT EXCEPT FOR PERIODS OF SHORT DURATION, AS APPROVED BY THE ENGINEER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO POST "NO PARKING" SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE OF CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION AND ALL WILL BE SUPPLIED BY THE CONTRACTOR.

LOCAL TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION OPERATIONS IN ACCORDANCE WITH THE PLANS, ARTICLE 107.14 AND SECTION 701 OF THE STANDARD SPECIFICATIONS. THE FURNISHING, INSTALLATION, MAINTENANCE, SURVEILLANCE, RELOCATION, AND SUBSEQUENT REMOVAL OF ALL SIGNS, TRAFFIC CONES, BARRICADES, WARNING LIGHTS, FLAGMEN, AND OTHER DEVICES WHICH ARE TO BE USED FOR THE PURPOSE OF REGULATING, WARNING, OR GUIDING TRAFFIC DURING THE CONSTRUCTION OF THIS IMPROVEMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION THE TRAFFIC CONTROL PAY ITEMS.

THE CONTRACTOR SHALL NOT WORK ON SATURDAYS, SUNDAYS, AND HOLIDAYS OBSERVED BY THE CITY, IN ADDITION TO AND IN ACCORDANCE WITH ARTICLE 107.09. THE CONTRACTOR SHALL NOT BEGIN WORK OR START UP ANY EQUIPMENT PRIOR TO HOURS PERMITTED BY LOCAL ORDINANCE. ALL WORK SHALL BE COMPLETED WITHIN THE HOURS PERMITTED BY LOCAL ORDINANCE.

**OBSERVED HOLIDAYS:**

- NEW YEAR'S DAY
- MARTIN LUTHER KING DAY
- PASSOVER
- MEMORIAL DAY
- INDEPENDENCE DAY
- LABOR DAY
- ROSH HASHANAH
- YOM KIPPUR
- VETERAN'S DAY
- THANKSGIVING DAY
- CHRISTMAS DAY

**PUBLIC OR PRIVATE UTILITIES:**

THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM, IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY OWNERS SO THAT THEIR FACILITIES MAY BE ADJUSTED OR RELOCATED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED IN THE PLANS. ALL RELOCATION WORK ON EXISTING PRIVATE UTILITIES WILL BE DONE BY THE OWNER OF THAT UTILITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS/HER EXPENSE.

**MISCELLANEOUS:**

DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

ALL EXISTING SIGNAGE AND ASSEMBLIES WHICH CONFLICT WITH THE PROPOSED SIGNAGE SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "REMOVE SIGN PANEL ASSEMBLY - TYPE A."

REMOVE AND/OR GRIND EXISTING PAVEMENT MARKINGS, AS NECESSARY, THAT CONFLICT OR INTERFERE WITH THE INSTALLATION OF THE PROPOSED PAVEMENT MARKINGS/SYMBOLS, AS DIRECTED BY THE ENGINEER.

REMOVE AND REPLACE CURB AND GUTTER AND PAVEMENT AS NECESSARY. PAVEMENT SHALL BE INCLUDED IN PAY ITEM FOR EXISTING FRAME AND GRATE TO BE REMOVED, SALVAGED AND REPLACED.

THE CONTRACTOR SHALL DISPOSE OF ALL MATERIAL IF NECESSARY THAT HAS BEEN EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS AT HIS EXPENSE. ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE ON THE DAY IT IS GENERATED. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING THE MATERIALS TO LOCATIONS PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF IMPROVEMENT. IT IS ANTICIPATED THAT THERE WILL NOT BE ANY SPECIAL WASTE REMOVAL UNDER THIS PROJECT CONTRACT.

PAINT PAVEMENT MARKINGS MAY BE USED ON CONCRETE SURFACES, AS DIRECTED BY THE ENGINEER.

ALL SIGNS TO BE RETROREFLECTIVE TYPE, WITH PANEL BACKS AND SUPPORT POSTS PAINTED/COATED AND TREATED IN ACCORDANCE WITH CITY REQUIREMENTS AND SPECIFICATIONS, MEETING PARK BROWN ENDUR SHIELD SPECIFICATIONS.

NO WORK SHALL BE PERFORMED WITHIN TWENTY-FIVE FEET (25') OF RAILROAD RIGHT-OF-WAY.

**LEGEND**

- EXISTING MANHOLE
- EXISTING LIGHT POLE
- EXISTING TRAFFIC SIGN
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- EXISTING TREE

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 SHARROW ROUTE SIGNING AND PAVEMENT MARKING QUANTITIES PER BLOCK
- 5 TYPICAL PAVEMENT MARKING DETAILS AND TYPICAL CROSS-SECTIONS
- 6-13 SIGN LOCATIONS AND SHARROWS ROUTE MAP
- 14-25 BICYCLE ROUTE SIGNAGE DETAILS
- 26 BICYCLE ROUTE SIGNAGE DETAILS AND BICYCLE SAFE INLET/GRATE LOCATIONS
- 27 CONSTRUCTION DETAILS
- 28-30 D-1 DETAILS

**IDOT HIGHWAY STANDARDS**

- BD600-06(BD-24) CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- 604001-04 FRAME AND LIDS TYPE 1
- 604016-04 FRAME AND GRATE TYPE 4
- 604051-04 FRAME AND GRATE TYPE 11
- 604056-04 FRAME AND GRATE TYPE 11V
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4-5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-05 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS

**SIGN PANEL SUMMARY**

	D11-1 24" x 18" TYPE 1
	D1-1bR 24" x 6" TYPE 1
	W11-1 24" x 24" TYPE 1
	W11-2 24" x 24" TYPE 1
	W16-1 18" x 24" TYPE 1
	R1-6a 12" x 36" TYPE 1
	W16-9P 12" x 24" TYPE 1
	M4-12 12" x 4" TYPE 1
	W16-7pR 24" x 12" TYPE 1
	W16-7pL 24" x 12" TYPE 1
	24" x 24" TYPE 1
	S1-1 36" x 36" TYPE 1
	D11-1 24" x 24" TYPE 1

\*TO BE MOUNTED BELOW BIKE ROUTE SIGN, D11-1  
 \*\*FLOURESCENT YELLOW-GREEN COLOR SCHEME TO BE USED ON CROSSWALK SIGNS  
 \*\*\*TO BE USED FOR SWITCHING OUT THE EXISTING GREEN BAY TRAIL SIGN

**SIGN ID#'S AND SHEET LOCATIONS**

ID#	SHEET LOCATIONS	ID#	SHEET LOCATIONS	ID#	SHEET LOCATIONS
#1	SHEET 6 AND 14	#60	SHEET 8 AND 19	#136	SHEET 10 AND 20
#2	SHEET 6 AND 14	#61	SHEET 8 AND 19	#137	SHEET 10 AND 24
#3	SHEET 6 AND 14	#62	SHEET 8 AND 19	#138	SHEET 10 AND 24
#4	SHEET 6 AND 14	#63	SHEET 10 AND 19	#139	SHEET 10 AND 20
#5	SHEET 6 AND 14	#64	SHEET 6 AND 19	#140	SHEET 10 AND 24
#6	SHEET 6 AND 14	#65	SHEET 6 AND 20	#141	SHEET 7 AND 24
#7	SHEET 10 AND 14	#66	SHEET 6 AND 20	#142	SHEET 7 AND 24
#8	SHEET 10 AND 14	#67	SHEET 6 AND 16	#143	SHEET 7 AND 24
#9	SHEET 10 AND 14	#68	SHEET 6 AND 19	#144	SHEET 7 AND 24
#10	SHEET 11 AND 15	#69	SHEET 10 AND 19	#147	SHEET 12 AND 24
#11	SHEET 11 AND 15	#70	SHEET 10 AND 20	#148	SHEET 13 AND 25
#12	SHEET 12 AND 15	#71	SHEET 12 AND 20	#149	SHEET 13 AND 25
#13	SHEET 12 AND 15	#72	SHEET 12 AND 20	#150	SHEET 13 AND 25
#14	SHEET 12 AND 15	#73	SHEET 8 AND 20	#151	SHEET 13 AND 25
#15	SHEET 12 AND 15	#74	SHEET 8 AND 20	#152	SHEET 13 AND 25
#16	SHEET 12 AND 15	#75	SHEET 8 AND 20	#153	SHEET 13 AND 25
#17	SHEET 12 AND 15	#76	SHEET 8 AND 20	#154	SHEET 12 AND 24
#18	SHEET 11 AND 15	#77	SHEET 8 AND 20	#155	SHEET 9 AND 25
#19	SHEET 10 AND 16	#78	SHEET 12 AND 21	#156	SHEET 9 AND 26
#20	SHEET 10 AND 14	#79	SHEET 12 AND 21	#157	SHEET 9 AND 26
#21	SHEET 6 AND 16	#85	SHEET 11 AND 21	#158	SHEET 9 AND 26
#22	SHEET 6 AND 14	#91	SHEET 11 AND 21	#159	SHEET 9 AND 26
#23	SHEET 6 AND 14	#92	SHEET 11 AND 21		
#24	SHEET 6 AND 16	#96	SHEET 6 AND 20		
#25	SHEET 6 AND 16	#97	SHEET 6 AND 21		
#26	SHEET 8 AND 16	#98	SHEET 7 AND 21		
#27	SHEET 8 AND 16	#99	SHEET 7 AND 21		
#28	SHEET 9 AND 16	#100	SHEET 7 AND 21		
#29	SHEET 9 AND 16	#101	SHEET 7 AND 22		
#30	SHEET 9 AND 16	#102	SHEET 8 AND 22		
#31	SHEET 9 AND 16	#103	SHEET 9 AND 22		
#32	SHEET 8 AND 17	#105	SHEET 8 AND 22		
#33	SHEET 8 AND 16	#107	SHEET 8 AND 20		
#34	SHEET 10 AND 17	#108	SHEET 8 AND 22		
#35	SHEET 10 AND 17	#109	SHEET 7 AND 22		
#36	SHEET 10 AND 17	#110	SHEET 7 AND 21		
#37	SHEET 11 AND 17	#111	SHEET 7 AND 21		
#38	SHEET 11 AND 17	#112	SHEET 6 AND 22		
#39	SHEET 12 AND 17	#113	SHEET 6 AND 20		
#40	SHEET 12 AND 18	#114	SHEET 10 AND 22		
#41	SHEET 12 AND 18	#115	SHEET 11 AND 23		
#42	SHEET 12 AND 18	#116	SHEET 11 AND 23		
#43	SHEET 12 AND 18	#117	SHEET 11 AND 23		
#44	SHEET 12 AND 18	#118	SHEET 11 AND 23		
#45	SHEET 11 AND 17	#119	SHEET 12 AND 23		
#46	SHEET 11 AND 18	#120	SHEET 12 AND 23		
#47	SHEET 10 AND 18	#121	SHEET 12 AND 23		
#48	SHEET 10 AND 18	#122	SHEET 12 AND 23		
#49	SHEET 10 AND 17	#123	SHEET 11 AND 24		
#50	SHEET 7 AND 18	#124	SHEET 11 AND 23		
#51	SHEET 7 AND 19	#125	SHEET 11 AND 23		
#52	SHEET 8 AND 19	#126	SHEET 11 AND 23		
#53	SHEET 8 AND 19	#127	SHEET 10 AND 22		
#54	SHEET 7 AND 19	#128	SHEET 10 AND 14		
#55	SHEET 7 AND 18	#129	SHEET 12 AND 18		
#56	SHEET 8 AND 19	#130	SHEET 8 AND 16		
#57	SHEET 8 AND 19	#134	SHEET 8 AND 16		
#58	SHEET 8 AND 19	#135	SHEET 10 AND 24		
#59	SHEET 8 AND 19				

# SUMMARY OF QUANTITIES

				BICYCLE FACILITIES 0028
SPECIALITY ITEM	CODE NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITY
+	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	6
	67100100	MOBILIZATION	LSUM	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1
	72000100	SIGN PANEL - TYPE 1	SQ FT	4,805
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	4
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	128
	72900100	METAL POST - TYPE A	FOOT	8,976
	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	5
+	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	200
+	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	200
+	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	600
+	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	748
+	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	300

				BICYCLE FACILITIES 0028
SPECIALITY ITEM	CODE NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITY
+	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	690
+	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	200
+	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	300
+	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	500
+	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	200
+	78006100	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	14,325
	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	612
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1
+	X0323569	STEEL POLE REMOVAL	EACH	3
+	X0324380	REMOVE AND REPLACE LID	EACH	21
+	XX007354	REMOVE, SALVAGE AND REPLACE FRAME AND GRATE	EACH	7
+	Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	100
Δ	Z0076600	TRAINEES	HOUR	500
Δ	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500

Δ 0042

ROAD	(LIMITS)	SET OF INTERSECTION MARKINGS	SHARROWS SHARED LANE PVM'T MARKING	"STR" SIGNS	"STR" SIGNS (ALT)
RIDGE ROAD	LAKE COOK ROAD TO LAWRENCE LANE	1	5	0	1
RIDGE ROAD	LAWRENCE AVENUE TO RIDGEE ROAD	2	4	2	0
RIDGE ROAD	RIDGE ROAD TO OLD BRIAR ROAD	2	6	0	0
RIDGE ROAD	OLD BRIAR ROAD TO BALSAM ROAD	1	4	0	0
RIDGE ROAD	BALSAM ROAD TO BLOSSOM COURT	1	4	0	0
RIDGE ROAD	BLOSSOM COURT TO CLAVEY ROAD	2	4	1	0
RIDGE ROAD	CLAVEY ROAD TO ROSEMARY ROAD	2	6	1	0
RIDGE ROAD	ROSEMARY ROAD TO STRATH ERIN	1	10	0	2
RIDGE ROAD	STRATH ERIN TO RED OAK LANE	1	4	1	0
RIDGE ROAD	RED OAK LANE TO EDGEWOOD ROAD	2	4	0	0
RIDGE ROAD	EDGEWOOD ROAD TO BARBERRY ROAD	1	4	2	0
RIDGE ROAD	BARBERRY ROAD TO WINTHROP ROAD	1	4	0	0
RIDGE ROAD	WINTHROP ROAD TO GROVE AVENUE	1	4	0	0
RIDGE ROAD	GROVE AVENUE TO DEVONSHIRE COURT	1	4	2	0
RIDGE ROAD	DEVONSHIRE COURT TO OLD DEERFIELD ROAD	0	4	3	1
RIDGE ROAD	DEERFIELD ROAD TO COVENTRY LANE	1	4	0	0
RIDGE ROAD	COVENTRY LANE TO WEST GATE TERRACE	1	4	0	0
RIDGE ROAD	WEST GATE TERRACE TO CASTLEWOOD ROAD	1	6	1	1
RIDGE ROAD	CASTLEWOOD ROAD TO RICHFIELD AVENUE	2	4	0	0
RIDGE ROAD	RICHFIELD AVENUE TO SOUTHLAND AVENUE	1	6	2	0
RIDGE ROAD	SOUTHLAND AVENUE TO HIDDEN RIDGE LANE	1	4	0	0
RIDGE ROAD	HIDDEN RIDGE LANE TO MIDLAND AVENUE	1	4	0	0
RIDGE ROAD	MIDLAND AVENUE TO GARLAND AVENUE	1	4	0	2
RIDGE ROAD	GARLAND AVENUE TO NORTHLAND AVENUE	1	6	0	0
RIDGE ROAD	NORTHLAND AVENUE TO YORK LANE	1	6	2	0
RIDGE ROAD	YORK LANE TO BERKELEY ROAD	1	4	0	0
RIDGE ROAD	BERKELEY ROAD TO EMERALD WOODS LANE	1	4	0	2
RIDGE ROAD	EMERALD WOODS LANE TO PARTRIDGE LANE	1	8	0	0
RIDGE ROAD	PARTRIDGE LANE TO PAINTERS LAKE ROAD	2	4	0	0
RIDGE ROAD	PAINTERS LAKE ROAD TO HOLLY ROAD	1	4	0	2
RIDGE ROAD	HOLLY ROAD TO PARK AVENUE WEST	1	4	0	0
RIDGE ROAD	PARK AVENUE WEST TO CHURCHILL LANE	1	4	0	0
RIDGE ROAD	CHURCHILL LANE TO KEATS LANE	1	10	4	2
RIDGE ROAD	KEATS LANE TO HYBERNIA DRIVE	1	4	0	0
RIDGE ROAD	HYBERNIA DRIVE TO COOPER LANE	1	4	0	0
RIDGE ROAD	COOPER LANE TO RESERVE COURT	1	4	1	1
RIDGE ROAD	RESERVE COURT TO HALF DAY ROAD	0	6	0	0
RIDGE ROAD	HALF DAY ROAD TO SHAWFORD WAY	1	6	8	1
RIDGE ROAD	SHAWFORD WAY TO FARNHAM ROAD	1	6	3	1
RIDGE ROAD	FARNHAM ROAD TO MILL TRAIL	0	4	0	0
CLAVEY ROAD	RED OAK LANE TO BRIAR LANE	1	3	0	0
CLAVEY ROAD	BRIAR LANE TO ELLRIDGE CIRCLE	1	4	2	0
CLAVEY ROAD	ELLRIDGE CIRCLE TO RIDGE ROAD	0	4	1	0
CLAVEY ROAD	SKOKIE VALLEY HIGHWAY TO CLAVEY LANE	2	3	0	0
CLAVEY ROAD	CLAVEY LANE TO SEVEN PINES CIRCLE	1	8	0	1
CLAVEY ROAD	SEVEN PINES CIRCLE TO ASPEN LANE	2	6	1	0
CLAVEY ROAD	ASPEN LANE TO LARKSPUR DRIVE	1	4	0	0
CLAVEY ROAD	LARKSPUR DRIVE TO HILLSIDE DRIVE	1	12	9	3
CLAVEY ROAD	HILLSIDE DRIVE TO HASTINGS AVENUE	1	2	0	0
CLAVEY ROAD	HASTINGS AVENUE TO GREEN BAY ROAD	0	4	1	0
BERKELEY ROAD	RIDGE ROAD TO SPRUCE AVENUE	1	4	0	0
BERKELEY ROAD	SPRUCE AVENUE TO SUNNYSIDE AVENUE	2	4	1	1
BERKELEY ROAD	SUNNYSIDE AVENUE TO CLOVERDALE AVENUE	2	4	2	0
BERKELEY ROAD	CLOVERDALE AVENUE TO EASTWOOD AVENUE	2	4	0	0
BERKELEY ROAD	EASTWOOD AVENUE TO SHERWOOD ROAD	2	4	0	0
BERKELEY ROAD	SHERWOOD ROAD TO CAVELL AVENUE	0	4	0	1

ROAD	(LIMITS)	SET OF INTERSECTION MARKINGS	SHARROWS SHARED LANE PVM'T MARKING	"STR" SIGNS	"STR" SIGNS (ALT)
PARK AVENUE WEST	RIDGE ROAD TO HOLLY ROAD	1	8	1	1
PARK AVENUE WEST	HOLLY ROAD TO SPRUCE AVENUE	2	4	0	0
PARK AVENUE WEST	SPRUCE AVENUE TO SUNNYSIDE AVENUE	1	4	1	1
PARK AVENUE WEST	SUNNYSIDE AVENUE TO CLOVERDALE AVENUE	1	4	2	0
PARK AVENUE WEST	CLOVERDALE AVENUE TO GRANGE AVENUE	1	2	0	0
PARK AVENUE WEST	GRANGE AVENUE TO CAVELL AVENUE	1	4	0	0
PARK AVENUE WEST	CAVELL AVENUE TO MCCRAREN ROAD	1	4	0	0
PARK AVENUE WEST	MCCRAREN ROAD TO SKOKIE VALLEY ROAD	2	4	0	2
PARK AVENUE WEST	SKOKIE VALLEY ROAD TO BEVERLY PLACE	3	16	8	2
PARK AVENUE WEST	BEVERLY PLACE TO SUNSET ROAD	2	8	0	2
PARK AVENUE WEST	SUNSET ROAD MIDLOTHIAN AVENUE	1	4	2	0
PARK AVENUE WEST	MIDLOTHIAN AVENUE TO GREEN BAY ROAD	0	4	1	1
OLD ELM ROAD	SKOKIE VALLEY ROAD TO BUENA ROAD	1	2	1	0
OLD ELM ROAD	BUENA ROAD TO OLD MILL ROAD	2	4	2	0
OLD ELM ROAD	OLD MILL ROAD TO VALLEY ROAD	1	2	0	0
OLD ELM ROAD	VALLEY ROAD TO S. GREEN BAY ROAD	1	4	0	2
OLD ELM ROAD	S. GREEN BAY ROAD TO TIMBER LANE	1	4	2	0
OLD ELM ROAD	TIMBER LANE TO GRANDVIEW LANE	1	4	4	0
OLD ELM ROAD	GRANDVIEW LANE TO BEVERLY PLACE	1	4	2	2
OLD ELM ROAD	BEVERLY PLACE TO UNIVERSITY AVENUE	1	4	0	0
OLD ELM ROAD	UNIVERSITY AVENUE TO SUMMIT AVENUE	1	4	2	0
OLD ELM ROAD	SUMMIT AVENUE TO KRENN AVENUE	1	4	0	0
OLD ELM ROAD	KRENN AVENUE TO WESTERN AVENUE	2	4	1	0
OLD ELM ROAD	WESTERN AVENUE TO SHERIDAN ROAD	0	4	1	0
HALF DAY ROAD	SUMMIT AVENUE TO COMPTON AVENUE	2	4	1	1
HALF DAY ROAD	COMPTON AVENUE TO GREENWOOD AVENUE	2	4	1	1
HALF DAY ROAD	GREENWOOD AVENUE TO AUGUSTA WAY	1	4	0	0
HALF DAY ROAD	AUGUSTA WAY TO SPYGLASS COURT	1	4	0	0
HALF DAY ROAD	SPYGLASS COURT TO WESTERN AVENUE	0	4	0	0
SUMMIT AVENUE	HALF DAY ROAD TO MARL OAK DRIVE	2	4	0	0
SUMMIT AVENUE	MARL OAK DRIVE TO NORTH AVENUE	2	4	3	1
SUMMIT AVENUE	NORTH AVENUE TO AUBURN AVENUE	2	6	4	1
SUMMIT AVENUE	AUBURN AVENUE TO OLD TRIAL	2	4	0	0
SUMMIT AVENUE	OLD TRIAL TO APPLETREE LANE	2	4	2	0
SUMMIT AVENUE	APPLETREE LANE TO HILL STREET	2	6	2	2
KRENN AVENUE	HILL STREET TO LOTUS PLACE	1	4	2	0
KRENN AVENUE	LOTUS PLACE TO AUDUBON PLACE	1	4	2	0
KRENN AVENUE	AUDUBON PLACE TO HYACINTH PLACE	2	4	0	2
HYACINTH PLACE	KRENN AVENUE TO DATO AVENUE	1	4	0	0
HYACINTH PLACE	DATO AVENUE TO WESTERN AVENUE	0	4	0	0
WESTERN AVENUE	HYACINTH PLACE TO OLD ELM ROAD	1	4	0	2
OLD TRIAL	SUMMIT AVENUE TO DATO AVENUE	1	4	1	1
OLD TRIAL	DATO AVENUE TO PRISCILLA AVENUE	2	4	0	0
OLD TRIAL	PRISCILLA AVENUE TO GREENWOOD AVENUE	2	4	2	0
OLD TRIAL	GREENWOOD AVENUE TO WARBLER PLACE	2	4	0	0
OLD TRIAL	WARBLER PLACE TO WESTERN AVENUE	0	4	0	1
BOB-O-LINK ROAD	MCDANIELS AVENUE TO FAIRVIEW ROAD	1	6	4	0
BOB-O-LINK ROAD	FAIRVIEW ROAD TO ROLLINGWOOD ROAD	2	4	0	0
BOB-O-LINK ROAD	ROLLINGWOOD ROAD TO CROFTON AVENUE NORTH	1	8	0	0
BOB-O-LINK ROAD	CROFTON AVENUE NORTH TO GREEN BAY ROAD	0	6	1	0
MCDANIELS AVENUE	BOB-O-LINK ROAD TO GOLF AVENUE	2	4	0	0
MCDANIELS AVENUE	GOLF AVENUE TO MARVELL LANE	1	4	0	0
MCDANIELS AVENUE	MARVELL LANE TO COURT AVENUE	1	4	0	0
MCDANIELS AVENUE	COURT AVENUE TO KIMBALL ROAD	1	6	2	0
MCDANIELS AVENUE	KIMBALL ROAD TO DRISCOLL COURT	1	4	0	0
MCDANIELS AVENUE	DRISCOLL COURT TO DEERFIELD ROAD	0	4	0	0

ROAD	(LIMITS)	SET OF INTERSECTION MARKINGS	SHARROWS SHARED LANE PVM'T MARKING	"STR" SIGNS	"STR" SIGNS (ALT)
BEVERLY PLACE	CENTRAL AVENUE TO PRINCETON AVENUE	1	6	0	0
BEVERLY PLACE	PRINCETON AVENUE TO TAYLOR AVENUE	1	4	0	0
BEVERLY PLACE	TAYLOR AVENUE TO HILARY LANE	1	4	2	0
BEVERLY PLACE	HILARY LANE TO SANDWICK COURT	1	4	0	0
BEVERLY PLACE	SANDWICK COURT TO ANDEAN PLACE	1	4	0	0
BEVERLY PLACE	ANDEAN PLACE TO CENTERFIELD COURT	1	4	0	2
BEVERLY PLACE	CENTERFIELD COURT TO HARVARD COURT	1	4	0	0
BEVERLY PLACE	HARVARD COURT TO CHERRY LANE	1	4	0	0
BEVERLY PLACE	CHERRY LANE TO ELMWOOD DRIVE	1	4	1	0
BEVERLY PLACE	ELMWOOD DRIVE TO PARK AVENUE WEST	0	4	0	0
SUNSET ROAD	CENTRAL AVENUE TO PRINCETON AVENUE	1	4	0	0
SUNSET ROAD	PRINCETON AVENUE TO HARVARD COURT	1	6	2	2
SUNSET ROAD	HARVARD COURT TO YALE LANE	1	4	2	0
SUNSET ROAD	YALE LANE TO PARK AVENUE WEST	0	4	0	0
ST. JOHNS AVENUE	LAKE COOK ROAD TO PIERCE ROAD	1	4	0	0
ST. JOHNS AVENUE	PIERCE ROAD TO LINCOLNWOOD ROAD	2	4	1	1
LINCOLNWOOD ROAD	ST. JOHNS AVENUE TO BRAESIDE ROAD	1	2	0	0
LINCOLNWOOD ROAD	BRAESIDE ROAD TO HAVENWOOD AVENUE	1	4	2	0
LINCOLNWOOD ROAD	HAVENWOOD AVENUE TO BROWNVILLE ROAD	1	4	0	0
LINCOLNWOOD ROAD	BROWNVILLE ROAD TO CAROL COURT	2	4	0	0
LINCOLNWOOD ROAD	CAROL COURT TO DELTA ROAD	2	4	0	0
LINCOLNWOOD ROAD	DELTA ROAD TO IRIS LANE	1	4	0	0
LINCOLNWOOD ROAD	IRIS LANE TO LAMBERT TREE AVENUE	2	4	0	2
LABERT TREE AVENUE	LINCOLNWOOD ROAD TO GROVELAND AVENUE	1	4	2	0
LABERT TREE AVENUE	GROVELAND AVENUE TO ASHLAND PLACE	1	6	0	0
LABERT TREE AVENUE	ASHLAND PLACE TO ST. JOHNS AVENUE	1	4	1	0
ST. JOHNS AVENUE	LAMBERT TREE AVENUE TO OAKLAND DRIVE	1	4	2	0
ST. JOHNS AVENUE	OAKLAND DRIVE TO WOODLAND ROAD	1	4	2	0
ST. JOHNS AVENUE	WOODLAND ROAD TO KINCAID STREET	1	4	0	0
ST. JOHNS AVENUE	KINCAID STREET TO COMSTOCK PLACE	1	4	0	2
ST. JOHNS AVENUE	COMSTOCK PLACE TO DEAN AVENUE	1	4	2	0
ST. JOHNS AVENUE	DEAN AVENUE TO ROGER WILLIAMS AVENUE	2	4	0	0
ST. JOHNS AVENUE	ROGER WILLIAMS AVENUE TO MARSHMAN STREET	1	4	2	2
ST. JOHNS AVENUE	MARSHMAN STREET TO AVA STREET	1	4	2	0
ST. JOHNS AVENUE	AVA STREET TO CEDAR AVENUE	1	4	2	0
ST. JOHNS AVENUE	CEDAR AVENUE TO BEECH STREET	1	4	2	0
ST. JOHNS AVENUE	BEECH STREET TO WADE STREET/FOREST AVENUE	2	4	2	0
ST. JOHNS AVENUE	WADE STREET/FOREST AVENUE TO LINCOLN AVENUE WEST	2	8	4	0
ST. JOHNS AVENUE	LINCOLN AVENUE WEST TO SHERIDAN ROAD	2	8	2	2
ST. JOHNS AVENUE	SHERIDAN ROAD TO RAVINE DRIVE	1	4	0	0
ST. JOHNS AVENUE	RAVINE DRIVE TO HAZEL AVENUE	1	4	2	0
ST. JOHNS AVENUE	HAZEL AVENUE TO LAUREL AVENUE	2	4	0	2
ST. JOHNS AVENUE	LAUREL AVENUE TO CENTRAL COURT	1	4	0	0
ST. JOHNS AVENUE	CENTRAL COURT TO CENTRAL AVENUE	2	6	2	0
ST. JOHNS AVENUE	CENTRAL AVENUE TO PARK AVENUE	1	6	0	0
ST. JOHNS AVENUE	PARK AVENUE TO ELM PLACE	2	4	2	0
ST. JOHNS AVENUE	ELM PLACE TO VINE AVENUE	2	8	4	0
ST. JOHNS AVENUE	VINE AVENUE TO MAPLE AVENUE	1	4	0	2
ST. JOHNS AVENUE	MAPLE AVENUE TO WOOD PATH	1	6	2	0
ST. JOHNS AVENUE	WOOD PATH TO ORCHARD LANE	2	8	2	0
ST. JOHNS AVENUE	ORCHARD LANE TO MORAIINE ROAD	2	4	0	0
ST. JOHNS AVENUE	MORAIINE ROAD BLOOM STREET	2	6	3	1
ST. JOHNS AVENUE	BLOOM STREET TO TEMPLE AVENUE	1	6	0	0
ST. JOHNS AVENUE	TEMPLE AVENUE TO WALKER AVENUE	0	4	2	0
CENTRAL AVENUE	ST. JOHNS AVENUE TO SHERIDAN ROAD	1	4	0	0
SHERIDAN ROAD	CENRAL AVENUE TO PARK AVENUE	2	6	2	0

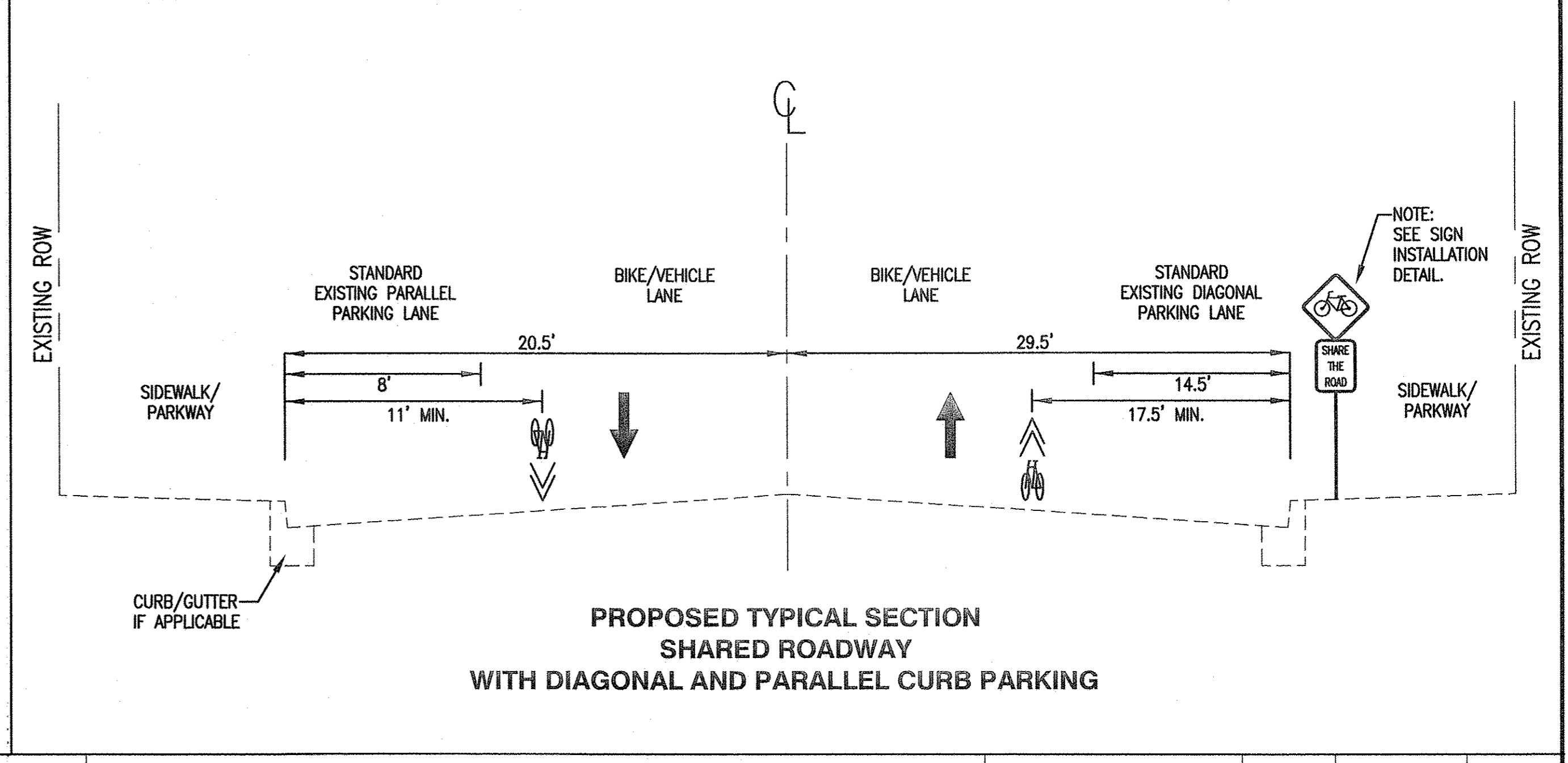
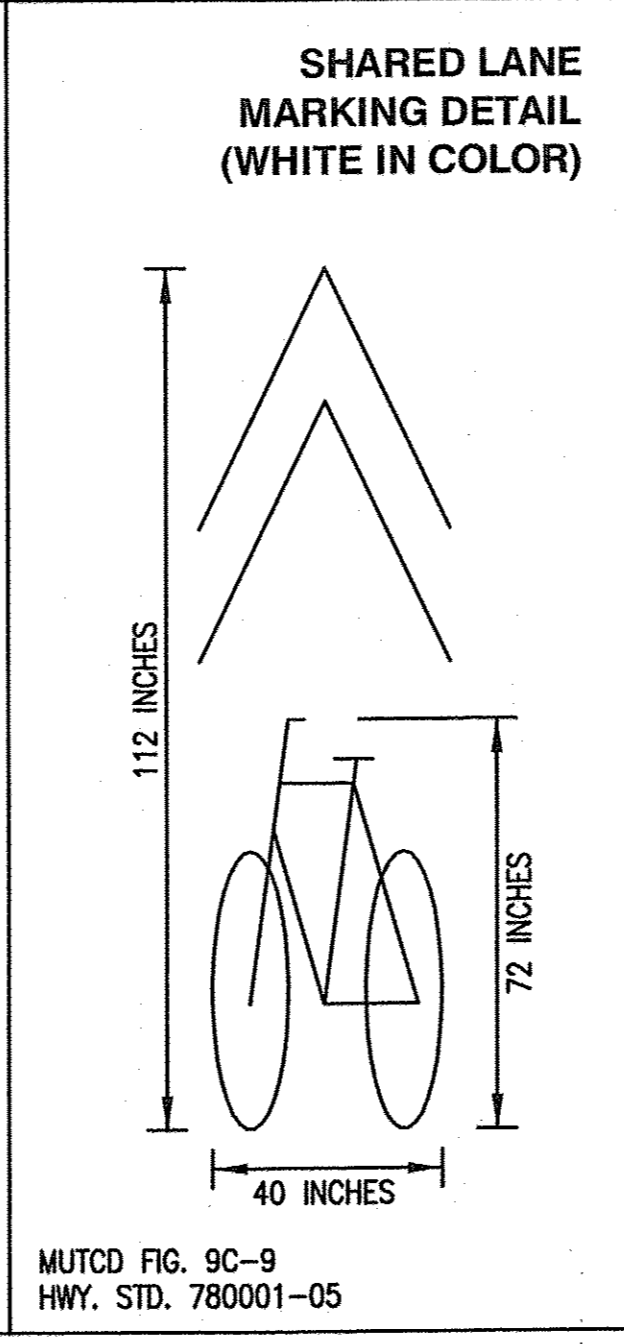
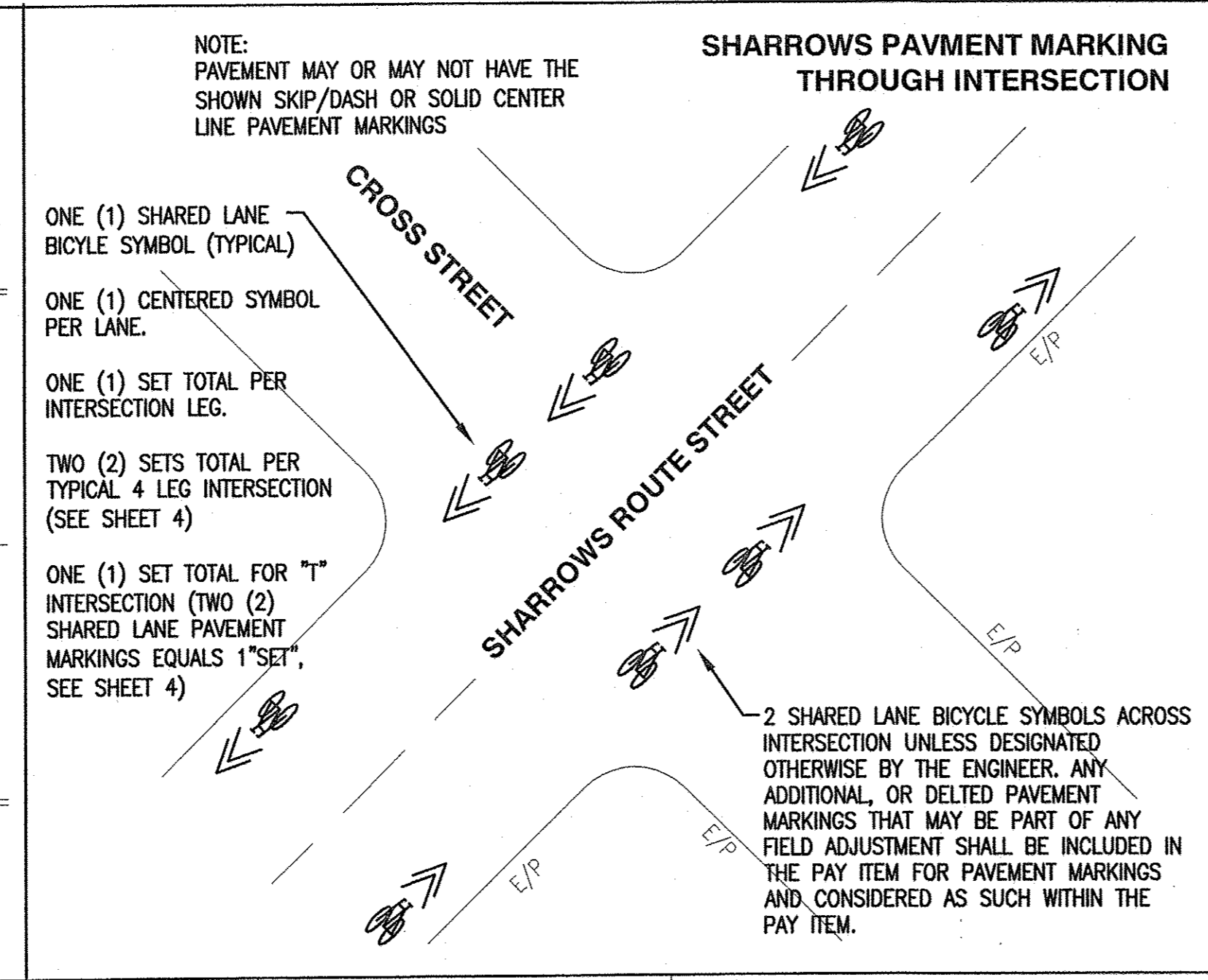
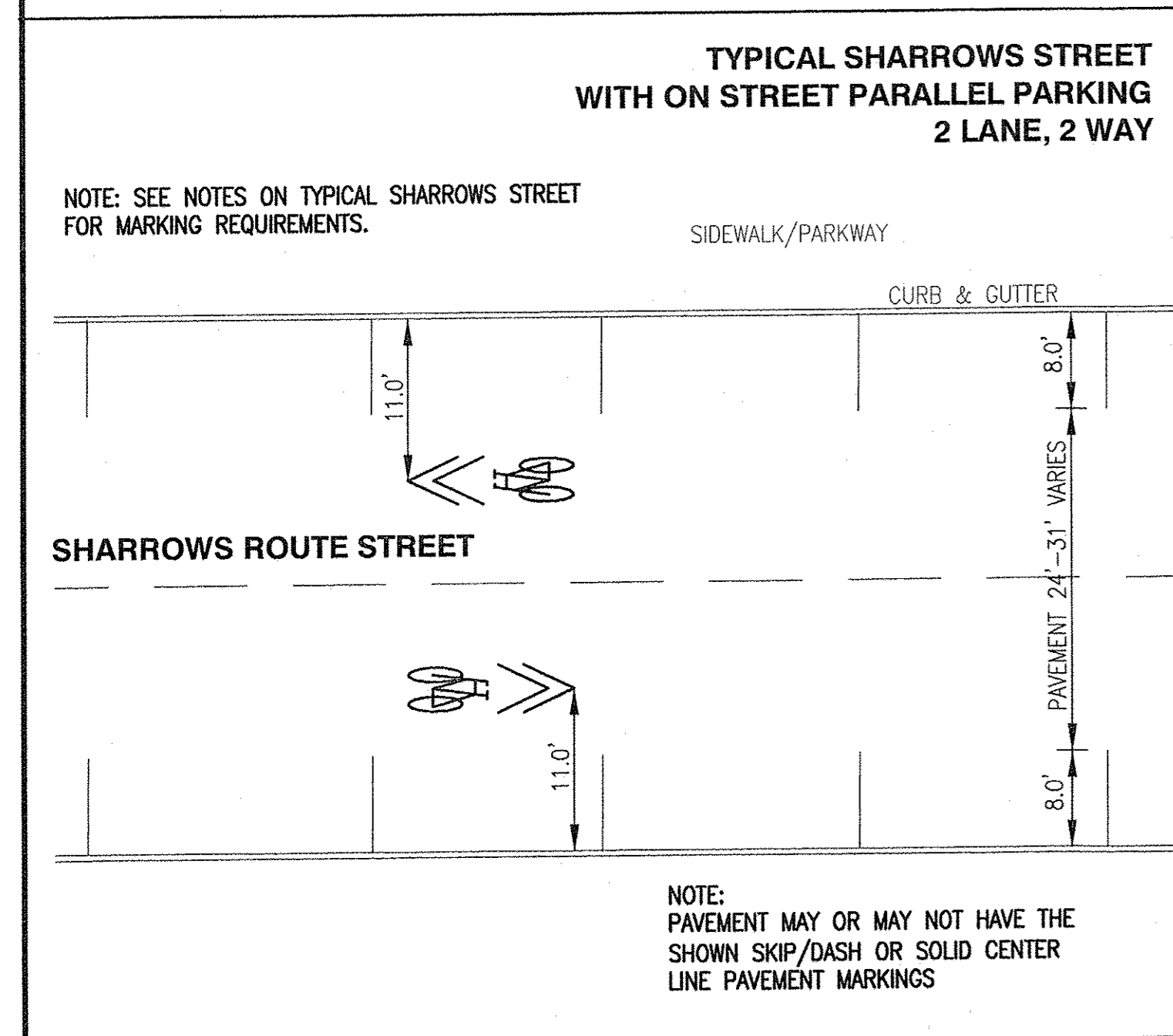
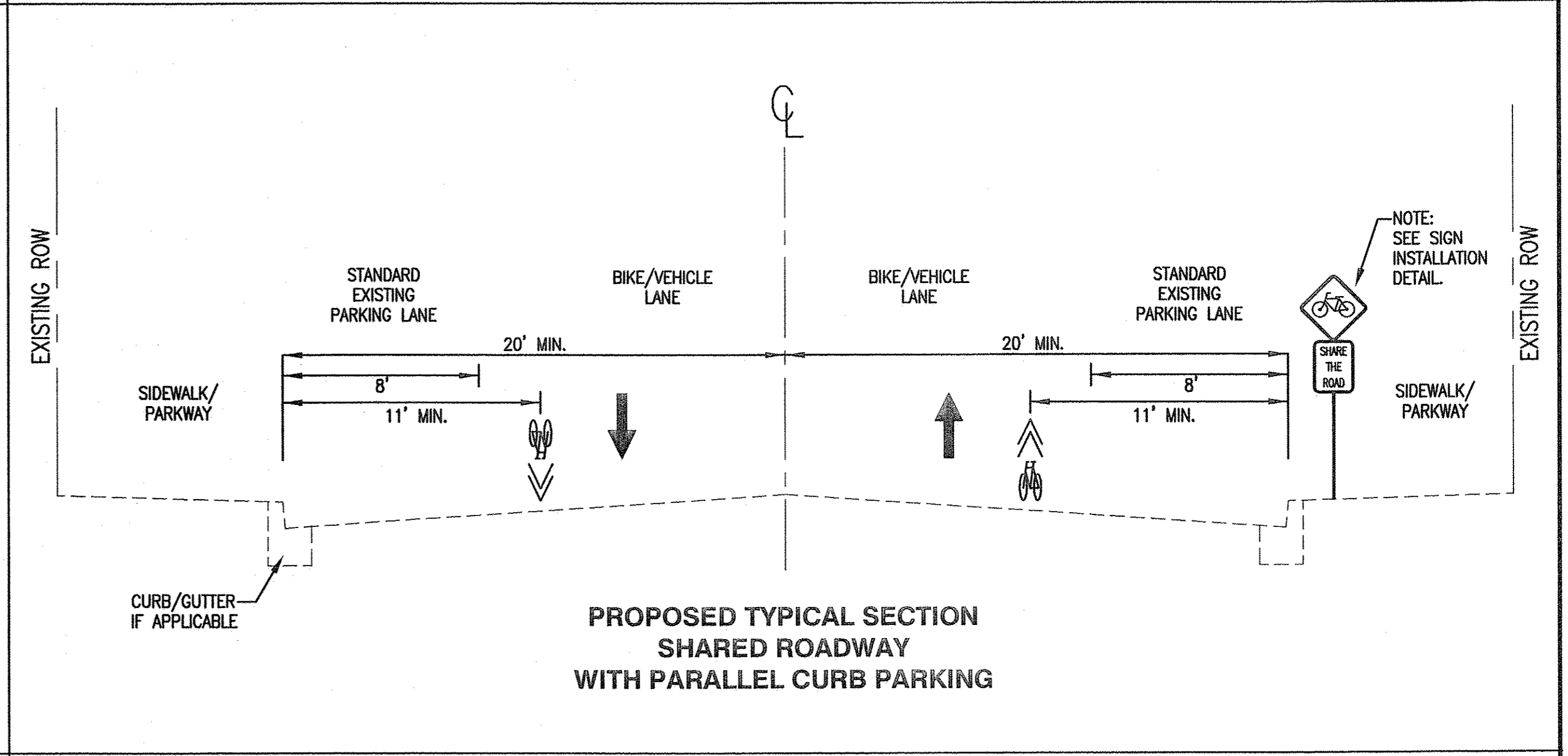
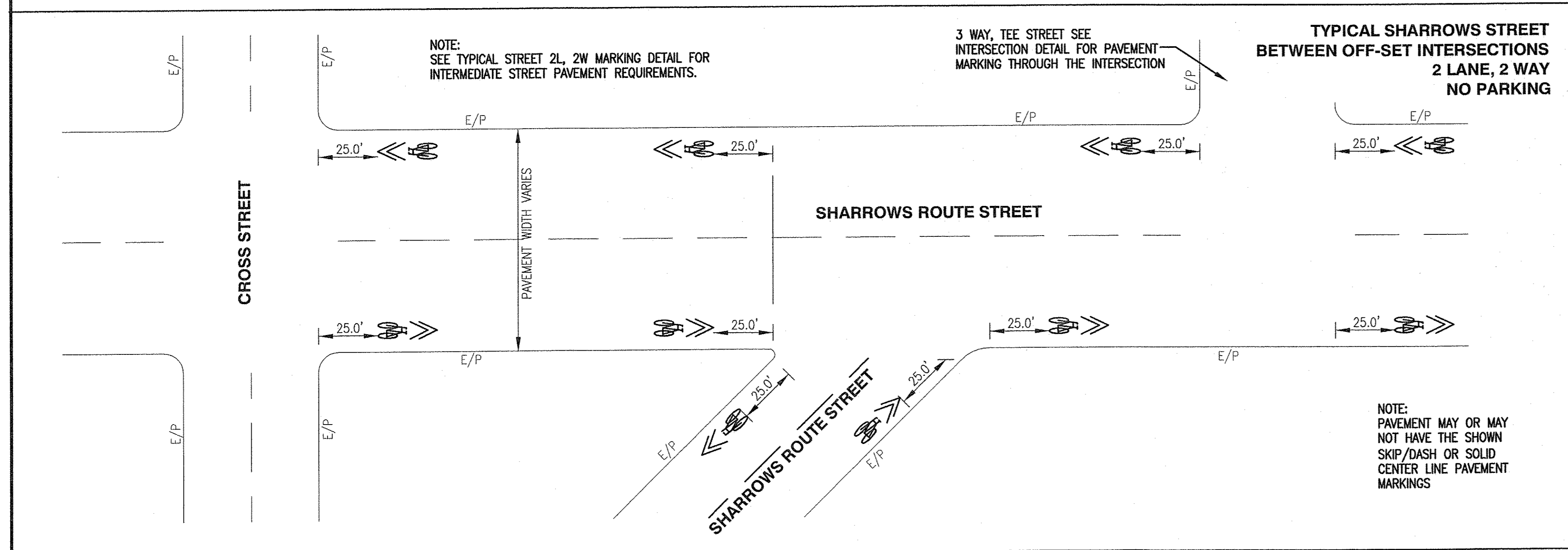
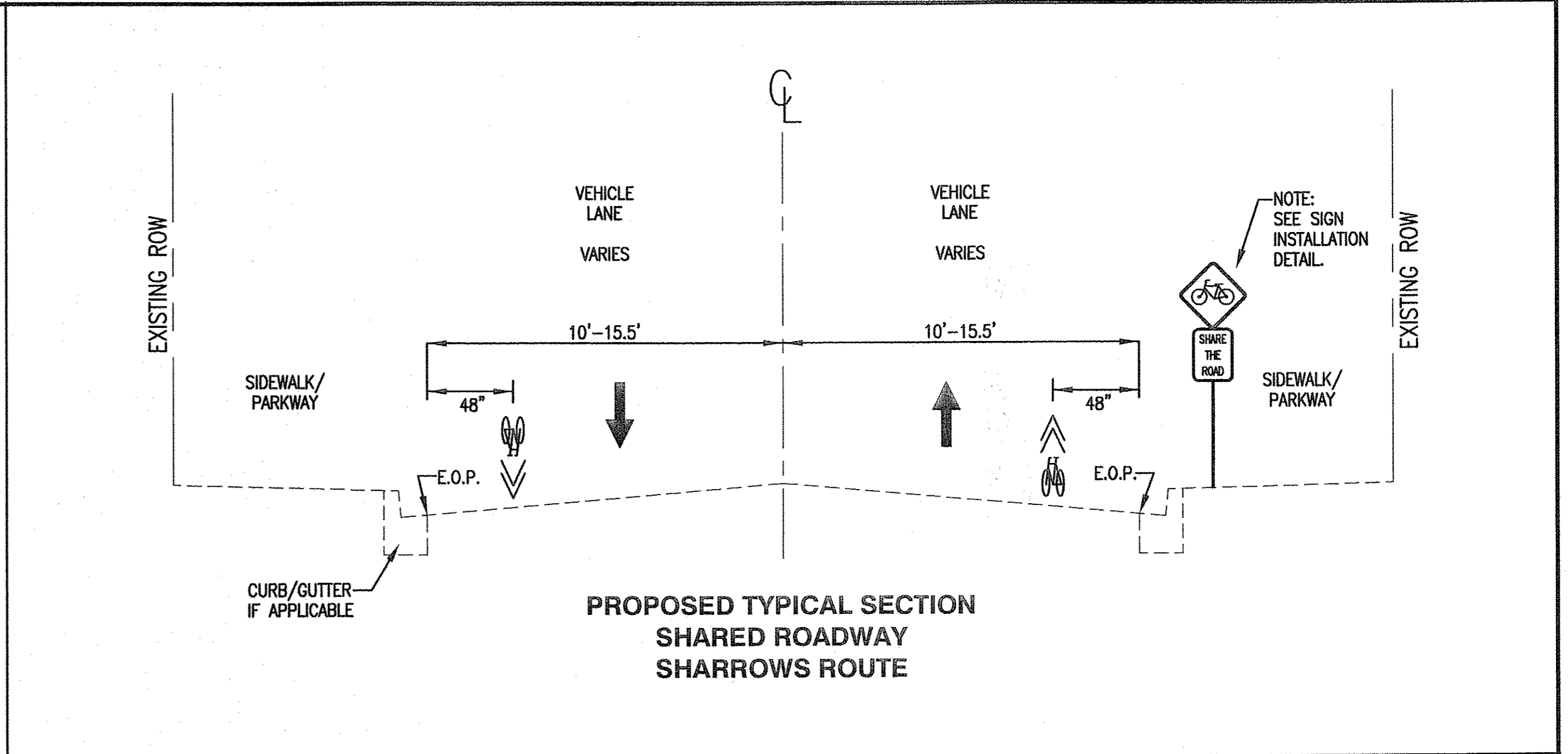
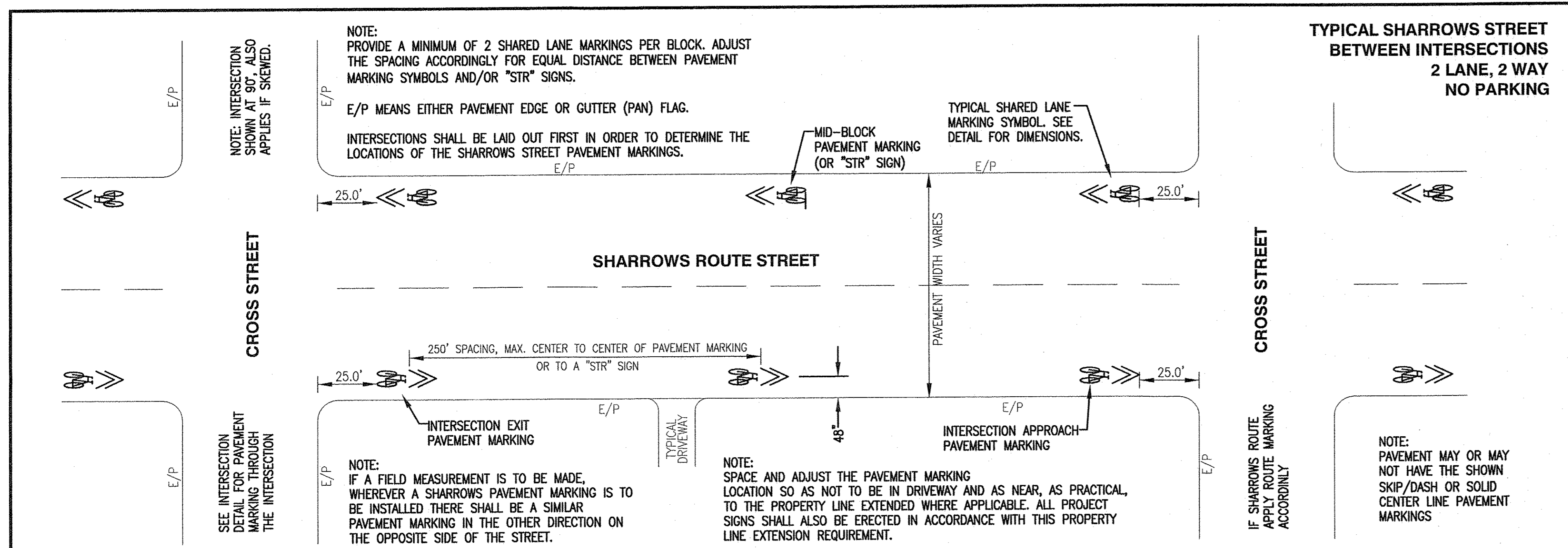
DOLAND ENGINEERING, LLC  
 514 EAST COLLEGE STREET, SUITE C  
 PRAIRIE, ILLINOIS 60541  
 (815) 994-5000 (815) 934-3427 FAX  
 www.dolandeng.com

USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHARROW ROUTE SIGNING AND  
 PAVEMENT MARKING QUANTITIES PER BLOCK  
 SCALE: N/A SHEET NO. 4 OF 30 SHEETS STA. STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124--00--BT	LAKE	30	4
FED. ROAD DIST. NO. --	CONTRACT NO. 61C68		
ILLINOIS	FEDERAL AID PROJECT		



**DOLAND ENGINEERING, LLC**  
 334 EAST OULFAK STREET, SUITE C  
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 (847) 991-5000 (847) 931-3427 FAX  
 www.dolandengineering.com

USER NAME:	DESIGNED:	REVISED:
DRAWN:	CHECKED:	REVISED:
PLOT SCALE:	DATE:	REVISED:
PLOT DATE:		

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**TYPICAL PAVEMENT MARKING DETAILS AND TYPICAL CROSS-SECTIONS**

SCALE: N/A

SHEET NO. 5 OF 30 SHEETS

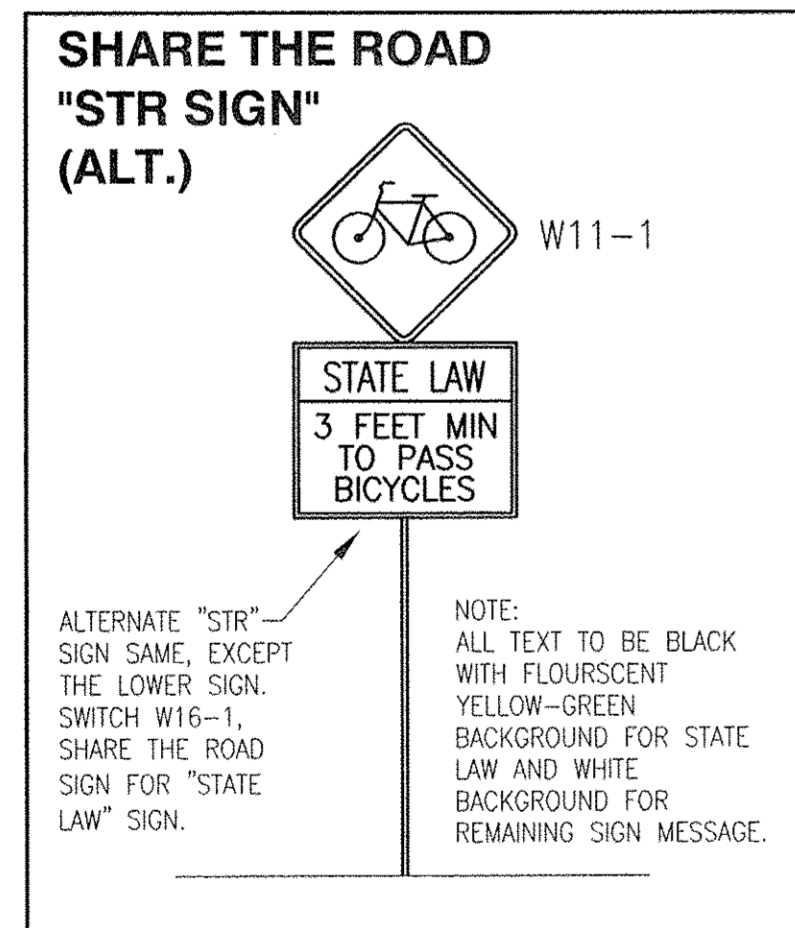
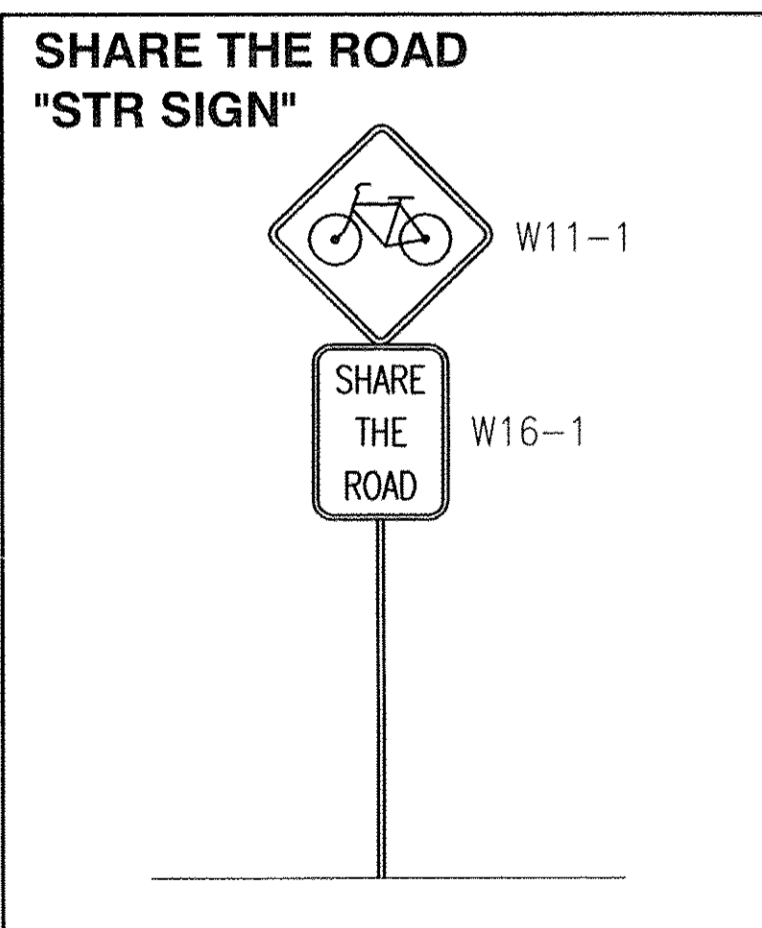
STA. STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	5
FED. ROAD DIST. NO. -	CONTRACT NO. 61CB8		
ILLINOIS	FEDERAL AID PROJECT		

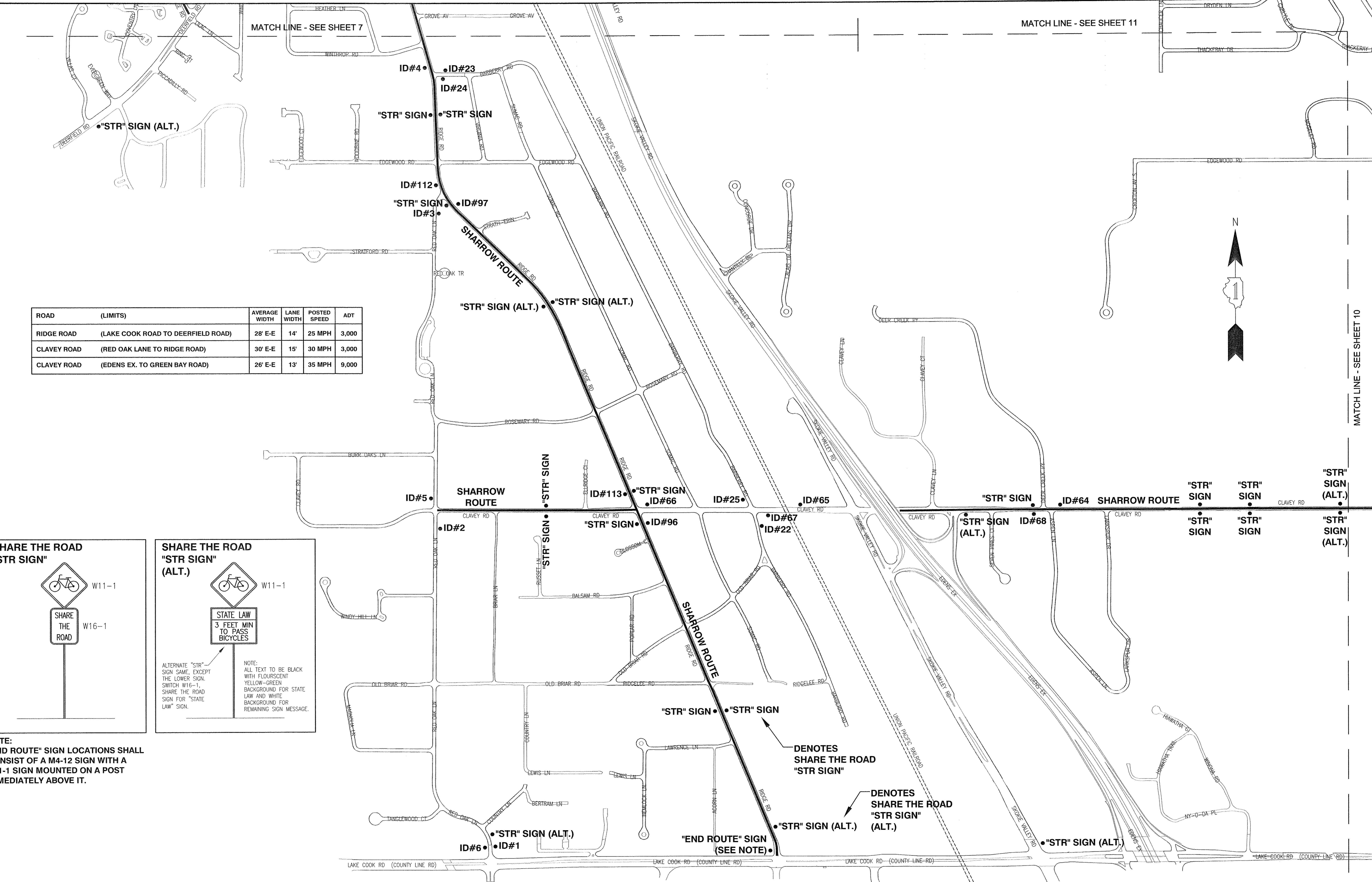
MATCH LINE - SEE SHEET 7

MATCH LINE - SEE SHEET 11

ROAD	(LIMITS)	AVERAGE WIDTH	LANE WIDTH	POSTED SPEED	ADT
RIDGE ROAD	(LAKE COOK ROAD TO DEERFIELD ROAD)	28' E-E	14'	25 MPH	3,000
CLAVEY ROAD	(RED OAK LANE TO RIDGE ROAD)	30' E-E	15'	30 MPH	3,000
CLAVEY ROAD	(EDENS EX. TO GREEN BAY ROAD)	26' E-E	13'	35 MPH	9,000



NOTE:  
"END ROUTE" SIGN LOCATIONS SHALL CONSIST OF A M4-12 SIGN WITH A D11-1 SIGN MOUNTED ON A POST IMMEDIATELY ABOVE IT.



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGN LOCATIONS AND SHARROWS ROUTE MAP

DOLAND  
ENGINEERING, LLC  
CIVIL ENGINEERING • LAND SURVEYING • LAND PLANNING  
334 EAST OULFAK STREET, SUITE C  
PALLASVILLE, ILLINOIS 60462  
(847) 391-5888 (847) 934-3452 FAX  
www.dolandengineering.com

USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

SCALE: 1"=300'

SHEET NO. 6 OF 30 SHEETS

STA.

STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	6
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

MATCH LINE - SEE SHEET 10

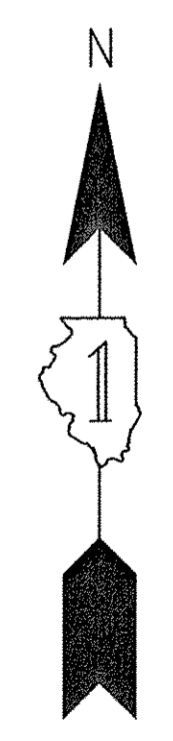
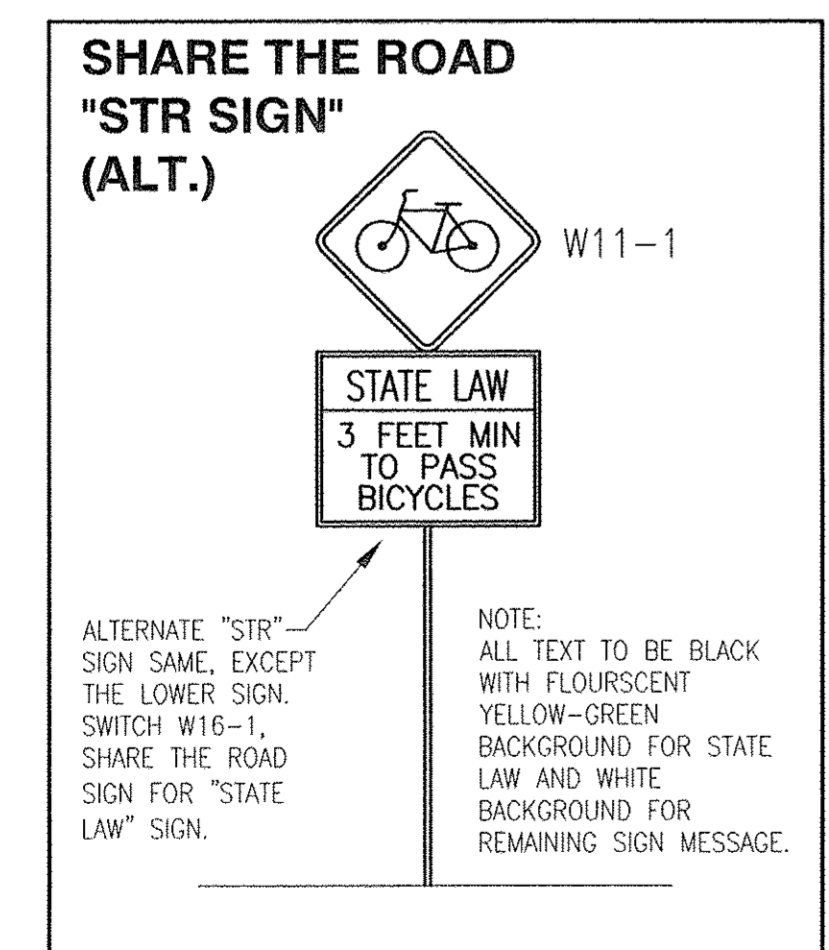
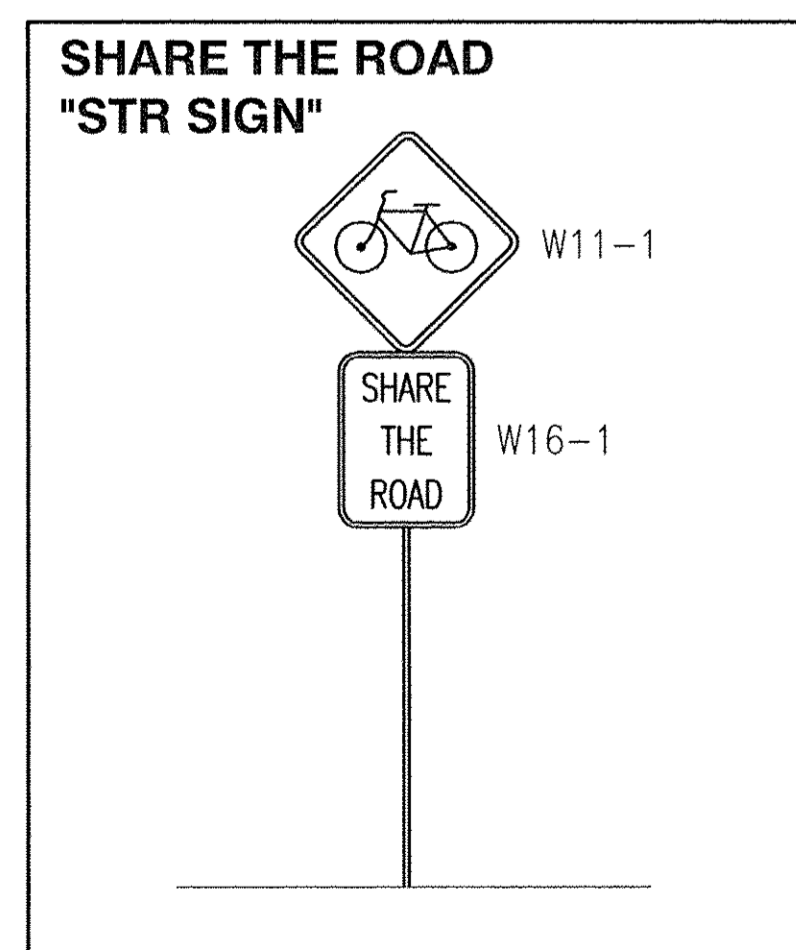
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"STR" SIGN (ALT.) • "STR" SIGN (ALT.)

•ID#101

MATCH LINE - SEE SHEET 8

MATCH LINE - SEE SHEET 12

ROAD	(LIMITS)	AVERAGE WIDTH	LANE WIDTH	POSTED SPEED	ADT
RIDGE ROAD	(DEERFIELD ROAD TO PARK AVENUE WEST)	20' E-E	10'	25 MPH	3,000
BERKELEY ROAD	(RIDGE ROAD TO CAVELLE AVENUE)	28' E-E	14'	25 MPH	4,000
BEVERLY PLACE	(CENTRAL AVENUE TO PARK AVENUE WEST)	22' E-E	11'	25 MPH	5,000
SUNSET ROAD	(CENTRAL AVENUE TO PARK AVENUE WEST)	24' E-E	12'	25 MPH	3,000



MATCH LINE - SEE SHEET 9

"STR" SIGN • "STR" SIGN

"STR" SIGN • "STR" SIGN

"STR" SIGN • "STR" SIGN

"STR" SIGN • "STR" SIGN (ALT.)

ID#105

"END ROUTE" SIGN • "STR" SIGN

ID#60 • ID#59

"END ROUTE" SIGN

"STR" SIGN (ALT.) • "STR" SIGN

"STR" SIGN

ID#61

"STR" SIGN • "STR" SIGN

"STR" SIGN (ALT.) • "STR" SIGN (ALT.)

ID#58

ID#57 & 62

ID#107

ID#74

"STR" SIGN

ID#75

ID#102

ID#108

"STR" SIGN (ALT.) • "STR" SIGN (ALT.) MATCH LINE - SEE SHEET 7

"STR" SIGN (ALT.) ID#33 • "STR" SIGN

"STR" SIGN

"STR" SIGN • "STR" SIGN (ALT.)

ID#27

"STR" SIGN • "STR" SIGN

"STR" SIGN (ALT.)

ID#34

ID#26

ID#130

"STR" SIGN

"STR" SIGN (ALT.)

"STR" SIGN (ALT.)

SHARROW ROUTE

ID#134

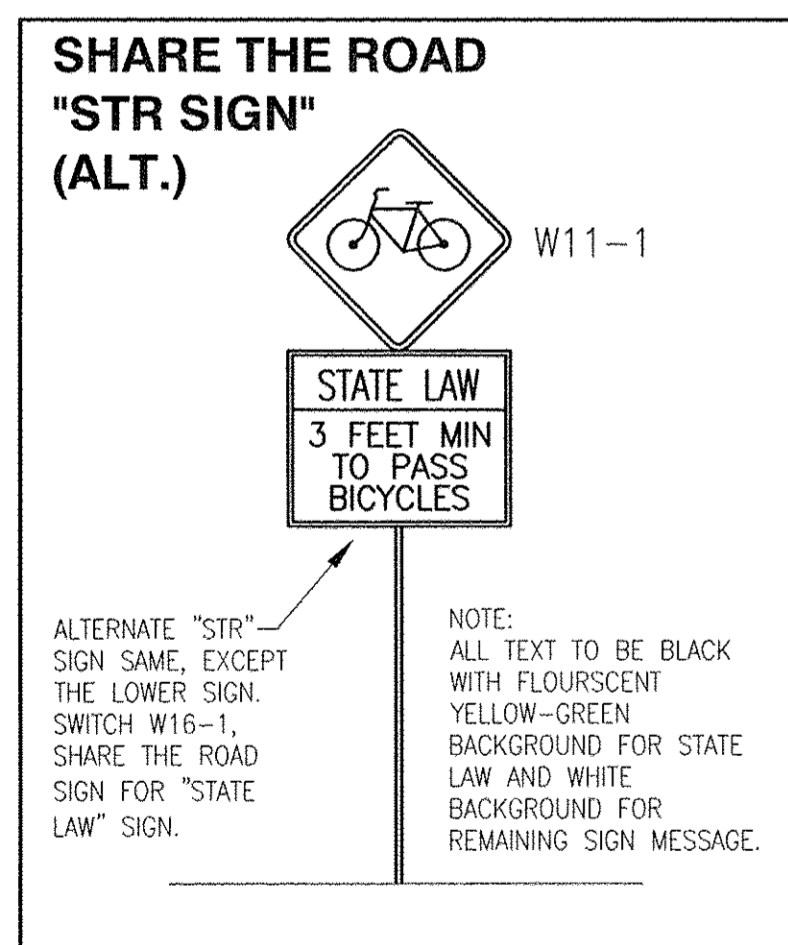
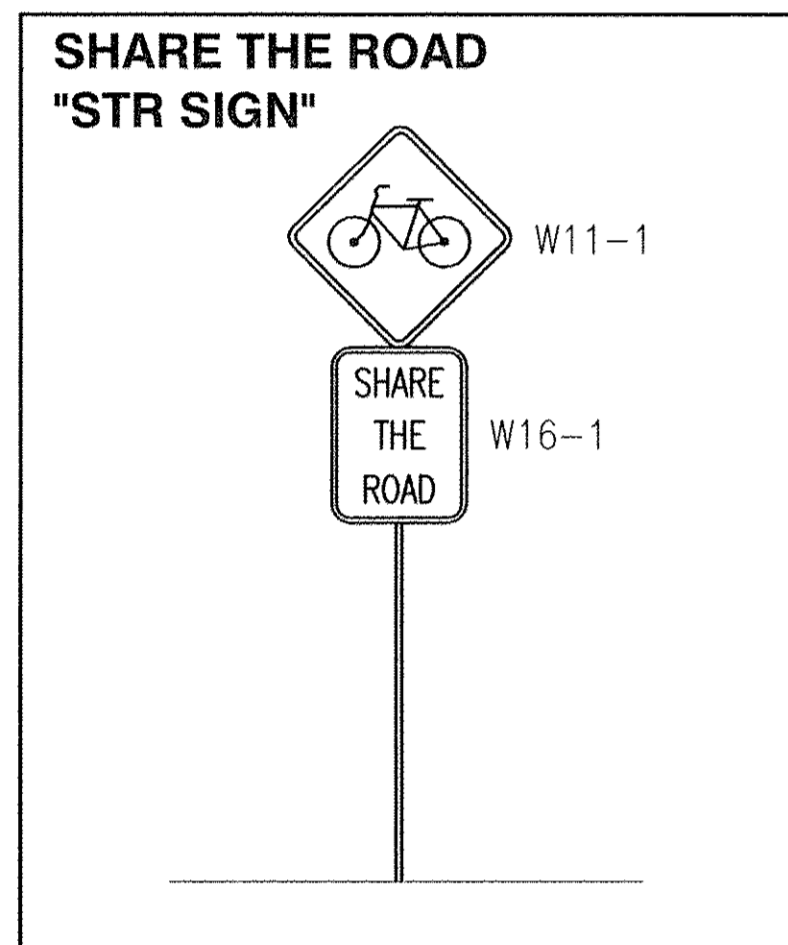
"STR" SIGN (ALT.)

"STR" SIGN (ALT.)

"STR" SIGN

"STR" SIGN

ROAD	(LIMITS)	AVERAGE WIDTH	LANE WIDTH	POSTED SPEED	ADT
RIDGE ROAD	(PARK AVENUE WEST TO HALF DAY ROAD)	20' E-E	10'	25 MPH	4,000
RIDGE ROAD	(HALF DAY ROAD TO NORTH LIMITS)	24' E-E	12'	25 MPH	500
PARK AVENUE WEST	(RIDGE ROAD TO RAILROAD)	21' E-E	10.5'	25 MPH	4,000
HALF DAY ROAD	(SUMMIT AVENUE TO WESTERN AVENUE)	35.5' E-E	17.75'	35 MPH	8,000
SUMMIT AVENUE	(HALF DAY ROAD TO KRENN AVENUE)	26' E-E	13'	25 MPH	4,000



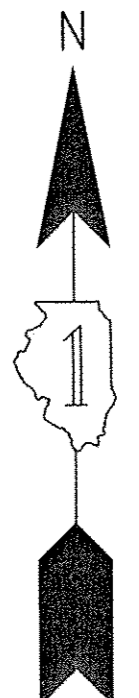
ALTERNATE "STR" SIGN SAME, EXCEPT THE LOWER SIGN. SWITCH W16-1, SHARE THE ROAD SIGN FOR "STATE LAW" SIGN.

NOTE: ALL TEXT TO BE BLACK WITH FLOURSCENT YELLOW-GREEN BACKGROUND FOR STATE LAW AND WHITE BACKGROUND FOR REMAINING SIGN MESSAGE.



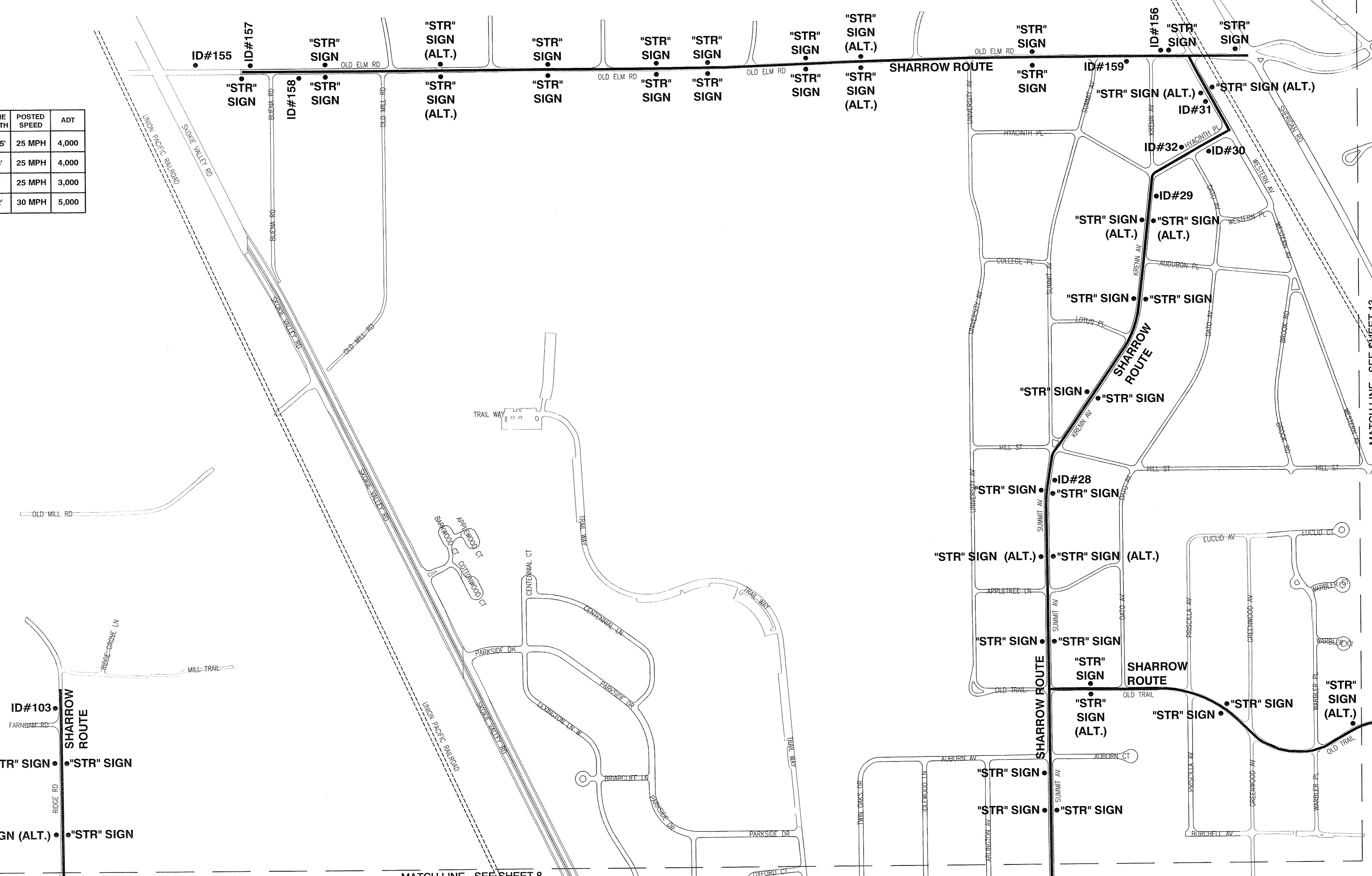
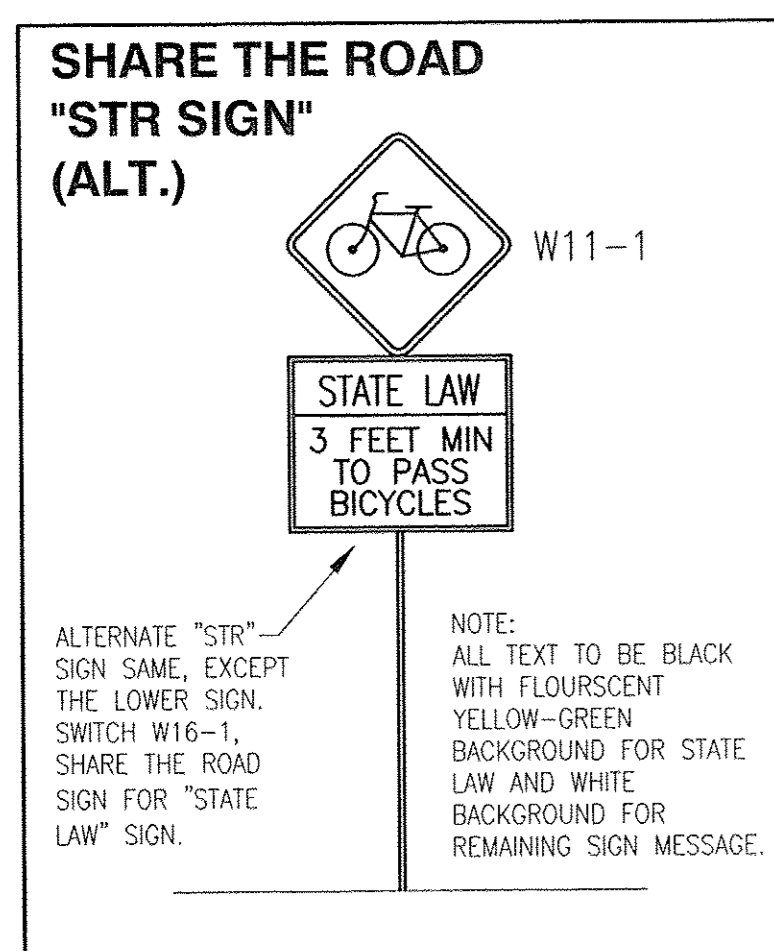
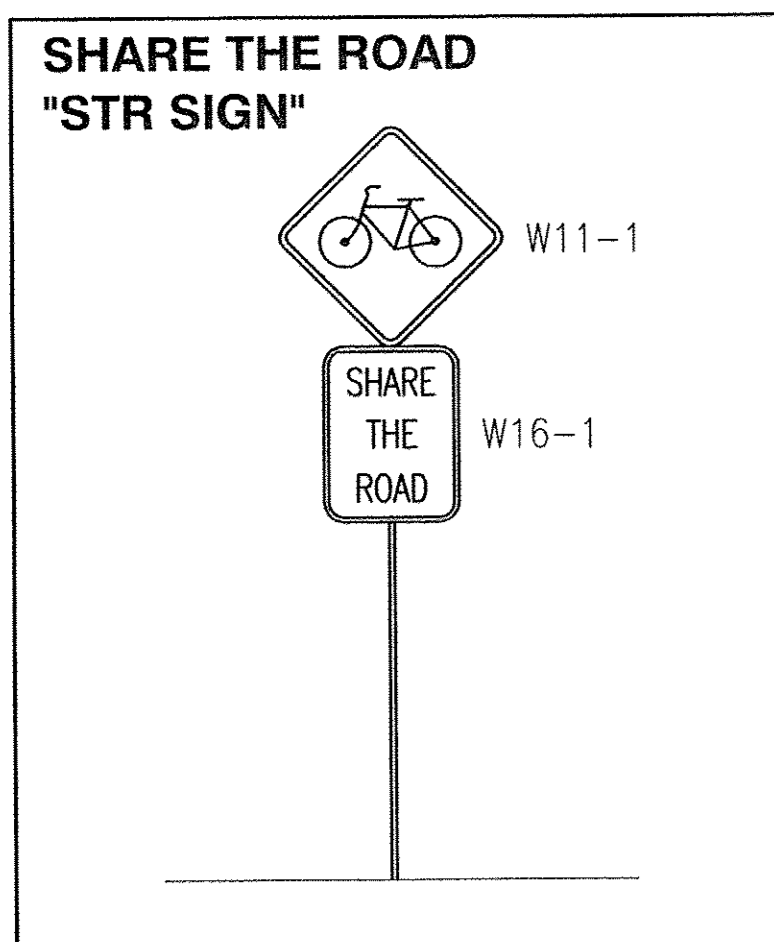
MATCH LINE - SEE SHEET 12





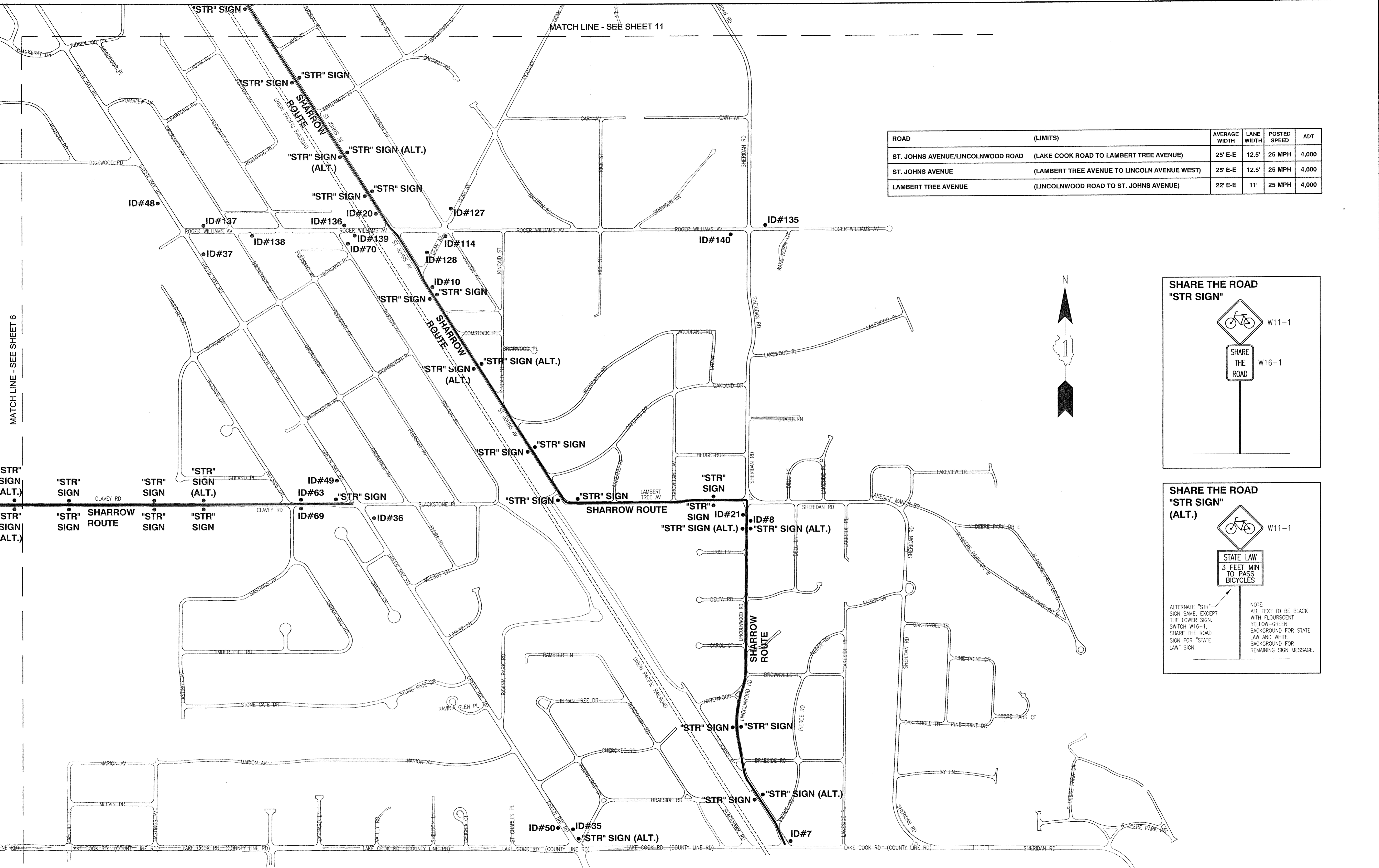
CITY OF LAKE FOREST

ROAD	(LIMITS)	AVERAGE WIDTH	LANE WIDTH	POSTED SPEED	ADT
KRENN AVENUE	(SUMMIT AVENUE TO HYACINTH PLACE)	27' E-E	13.5'	25 MPH	4,000
HYACINTH PLACE	(KRENN AVENUE TO WESTERN AVENUE)	36' E-E	18'	25 MPH	4,000
OLD TRAIL	(SUMMIT AVENUE TO WESTERN AVENUE)	18' E-E	9'	25 MPH	3,000
OLD ELM ROAD	(BUENA ROAD TO WESTERN AVENUE)	24' E-E	12'	30 MPH	5,000

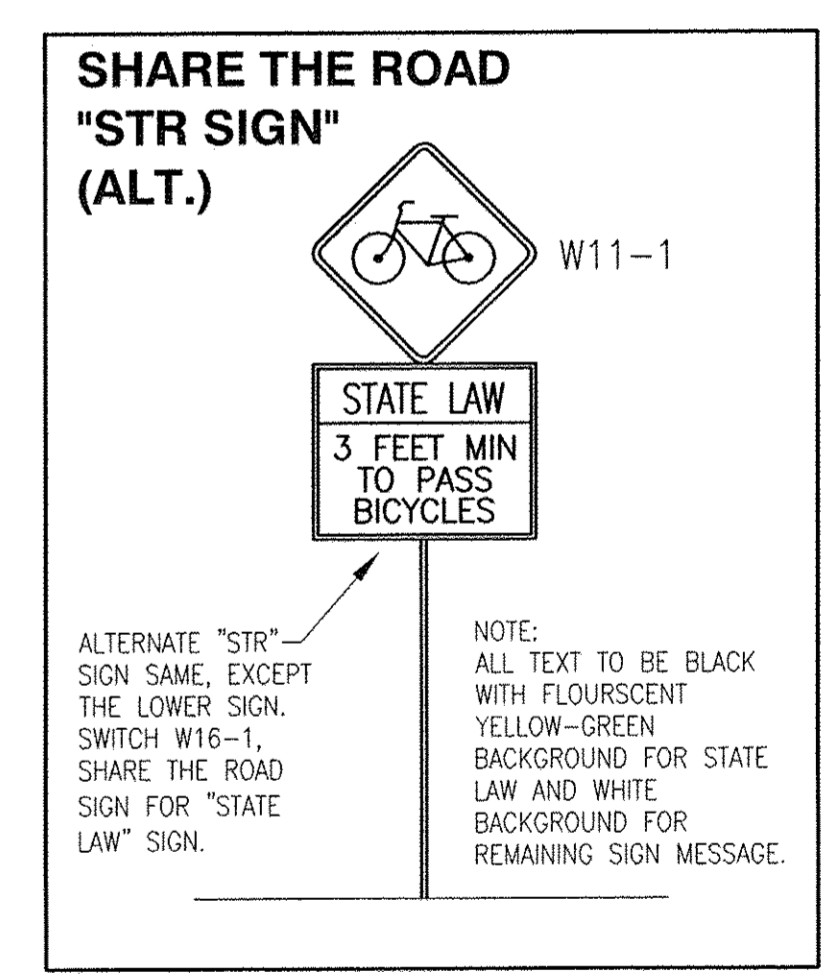
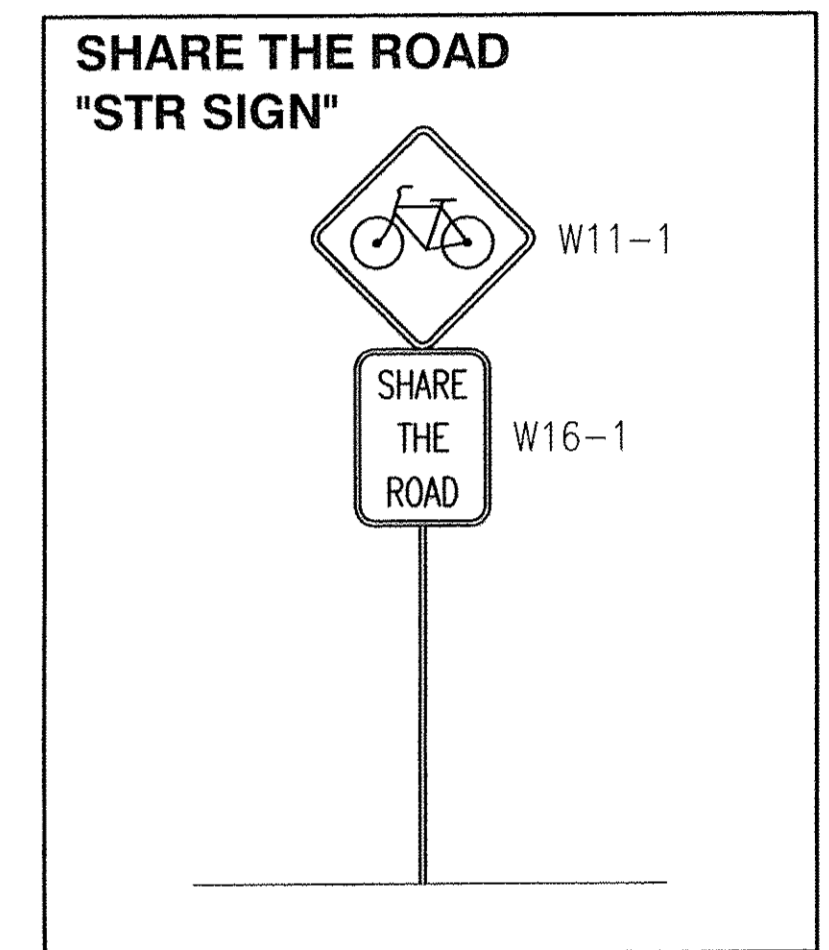
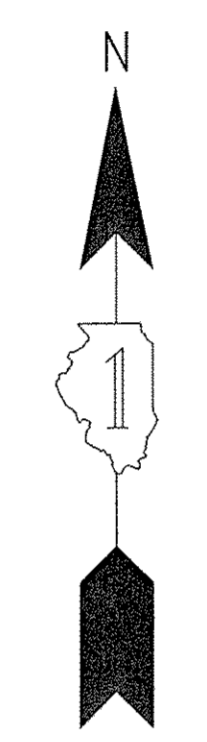


MATCH LINE - SEE SHEET 8

MATCH LINE - SEE SHEET 13



ROAD	(LIMITS)	AVERAGE WIDTH	LANE WIDTH	POSTED SPEED	ADT
ST. JOHNS AVENUE/LINCOLNWOOD ROAD	(LAKE COOK ROAD TO LAMBERT TREE AVENUE)	25' E-E	12.5'	25 MPH	4,000
ST. JOHNS AVENUE	(LAMBERT TREE AVENUE TO LINCOLN AVENUE WEST)	25' E-E	12.5'	25 MPH	4,000
LAMBERT TREE AVENUE	(LINCOLNWOOD ROAD TO ST. JOHNS AVENUE)	22' E-E	11'	25 MPH	4,000



MATCH LINE - SEE SHEET 6

MATCH LINE - SEE SHEET 11

**DOLAND ENGINEERING, LLC**  
 6715 PROGRESS - LAKE SHARROW - LAND PLANNING  
 334 EAST COLFAX STREET, SUITE C  
 PALATKA, ILLINOIS 60067  
 (815) 931-5588 (815) 934-3429 FAX  
 www.dolandengineering.com

USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGNS AND SHARROWS ROUTE MAP**

SCALE: 1"=300' SHEET NO. 10 OF 30 SHEETS STA. STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	10
FED. ROAD DIST. NO. --	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

MATCH LINE - SEE SHEET 12

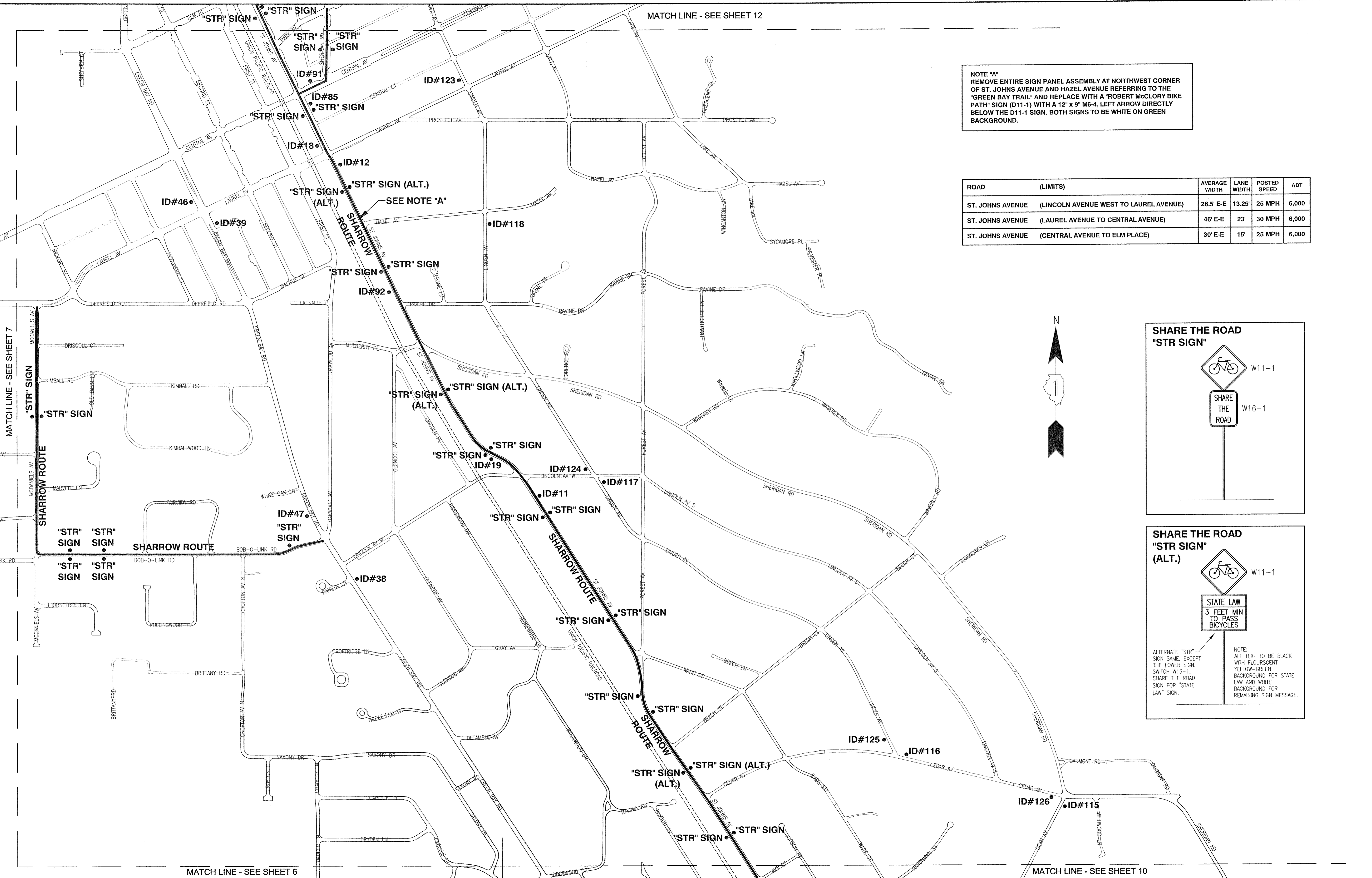
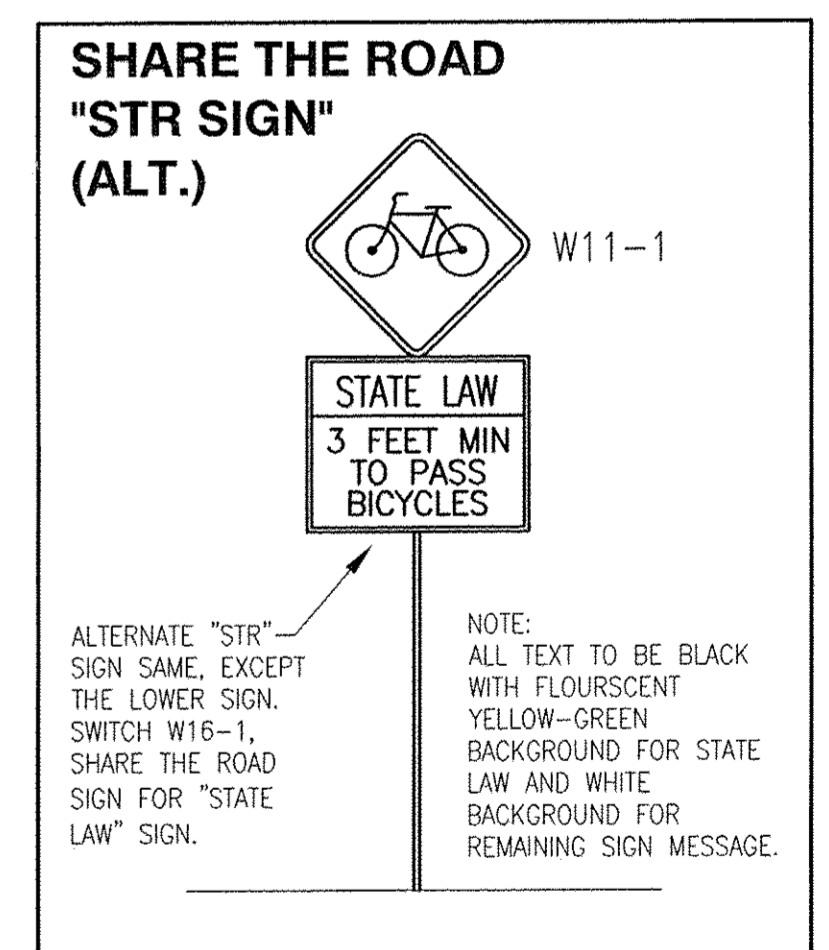
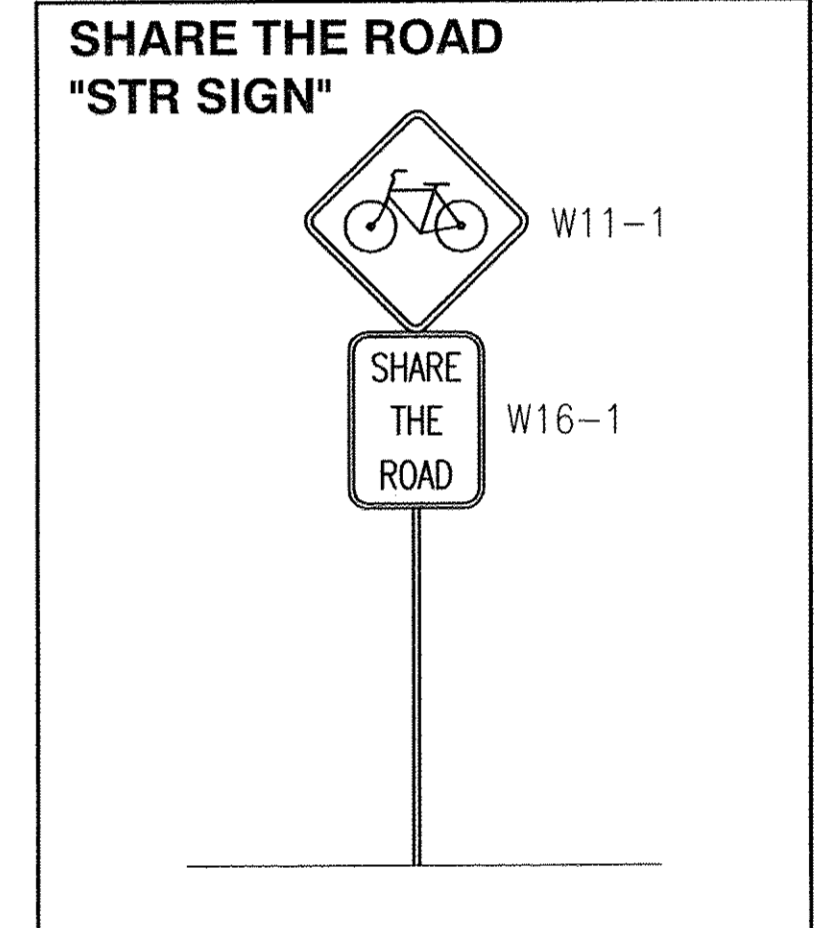
NOTE "A"  
 REMOVE ENTIRE SIGN PANEL ASSEMBLY AT NORTHWEST CORNER OF ST. JOHNS AVENUE AND HAZEL AVENUE REFERRING TO THE "GREEN BAY TRAIL" AND REPLACE WITH A "ROBERT McCLODY BIKE PATH" SIGN (D11-1) WITH A 12" x 9" M6-4, LEFT ARROW DIRECTLY BELOW THE D11-1 SIGN. BOTH SIGNS TO BE WHITE ON GREEN BACKGROUND.

ROAD	(LIMITS)	AVERAGE WIDTH	LANE WIDTH	POSTED SPEED	ADT
ST. JOHNS AVENUE	(LINCOLN AVENUE WEST TO LAUREL AVENUE)	26.5' E-E	13.25'	25 MPH	6,000
ST. JOHNS AVENUE	(LAUREL AVENUE TO CENTRAL AVENUE)	46' E-E	23'	30 MPH	6,000
ST. JOHNS AVENUE	(CENTRAL AVENUE TO ELM PLACE)	30' E-E	15'	25 MPH	6,000

MATCH LINE - SEE SHEET 7

MATCH LINE - SEE SHEET 6

MATCH LINE - SEE SHEET 10



**DOLAND ENGINEERING, LLC**  
 CIVIL ENGINEERING - LAND SURVEYING - LAND PLANNING  
 334 EAST COLFAX STREET, SUITE C  
 PALM SPRING, ILLINOIS 60067  
 (815) 991-5088 (815) 934-3427 FAX  
 www.dolandengineering.com

USER NAME:	DESIGNED:	REVISED:
	DRAWN:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGNS AND SHARROWS ROUTE MAP**

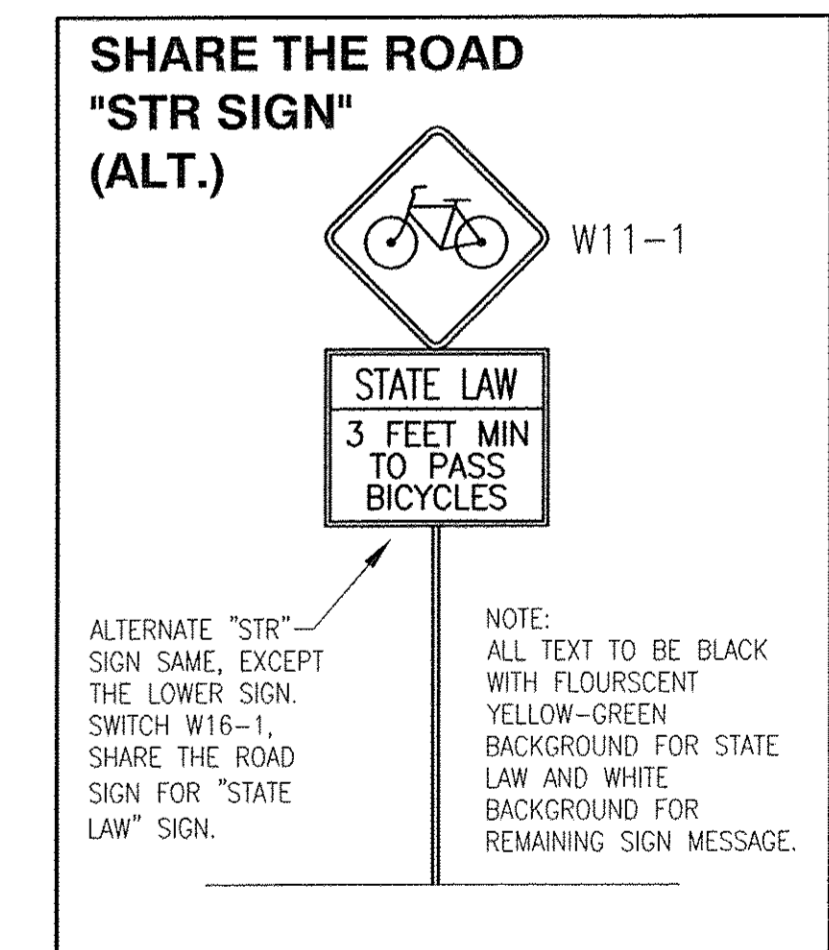
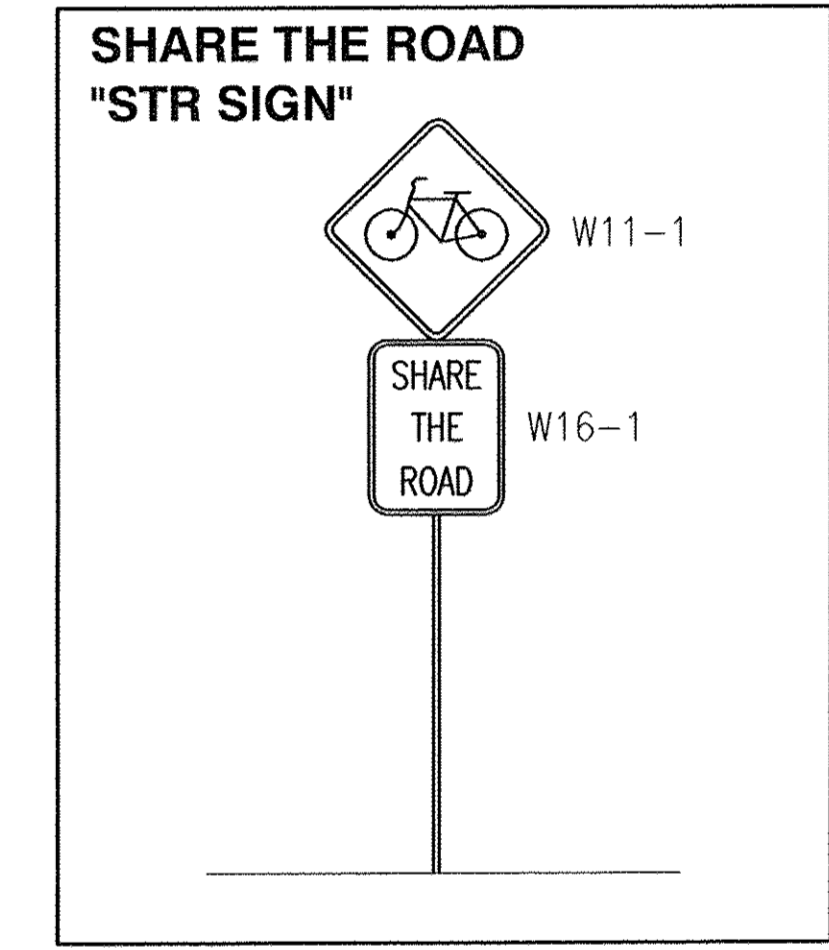
SCALE: 1"=300'	SHEET NO. 11 OF 30 SHEETS	STA.	STA.
SECTION 15-00124-00-BT		COUNTY LAKE	TOTAL SHEETS 30
FED. ROAD DIST. NO. -		CONTRACT NO. 61C88	
ILLINOIS		FEDERAL AID PROJECT	

MATCH LINE - SEE SHEET 13

CITY OF HIGHWOOD

CITY OF HIGHWOOD

ROAD	(LIMITS)	AVERAGE WIDTH	LANE WIDTH	POSTED SPEED	ADT
ST. JOHNS AVENUE	(ELM PLACE TO VINE AVENUE)	30' E-E	15'	25 MPH	6,000
ST. JOHNS AVENUE	(VINE AVENUE TO WALKER AVENUE)	24' E-E	12'	25 MPH	5,000



MATCH LINE - SEE SHEET 8

MATCH LINE - SEE SHEET 7

MATCH LINE - SEE SHEET 11

**DOLAND ENGINEERING, LLC**  
 234 EAST OLDFAX STREET, SUITE C  
 CHATTANOOGA, ILLINOIS 62409  
 (617) 951-5088 (617) 934-3427 FAX  
 WWW.DOLANDENGINEERING.COM

USER NAME:	DESIGNED:	REVISIONS:
	DRAWN:	REVISIONS:
PLOT SCALE:	CHECKED:	REVISIONS:
PLOT DATE:	DATE:	REVISIONS:

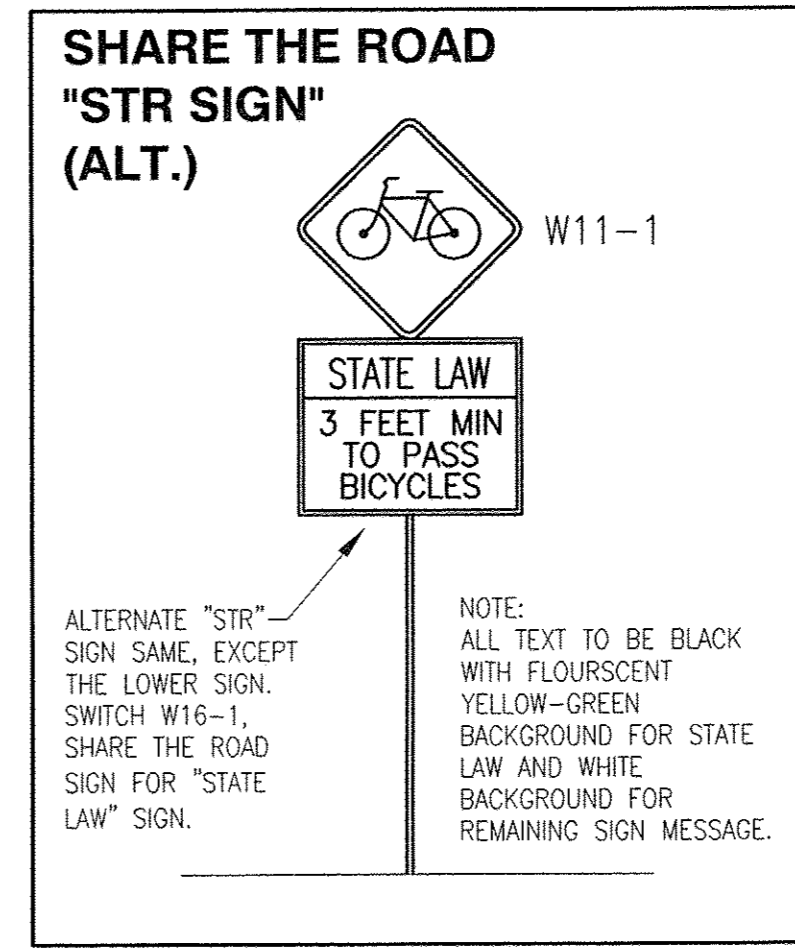
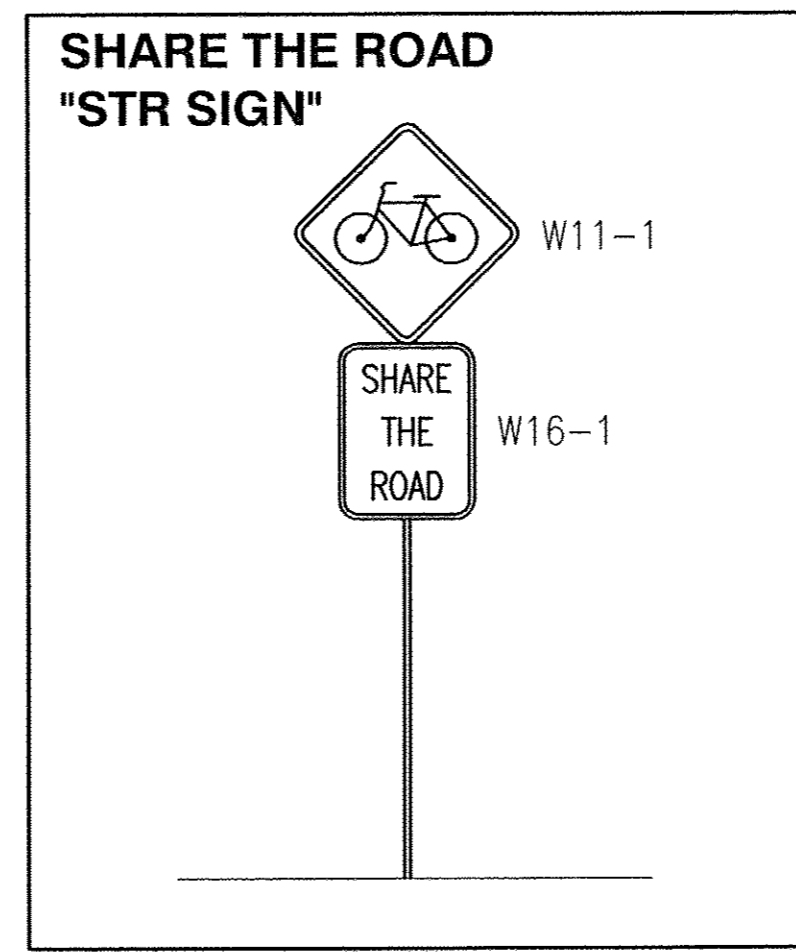
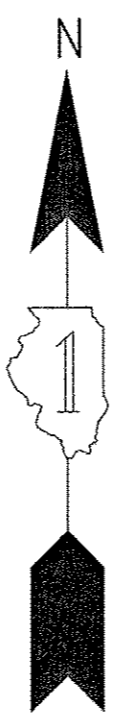
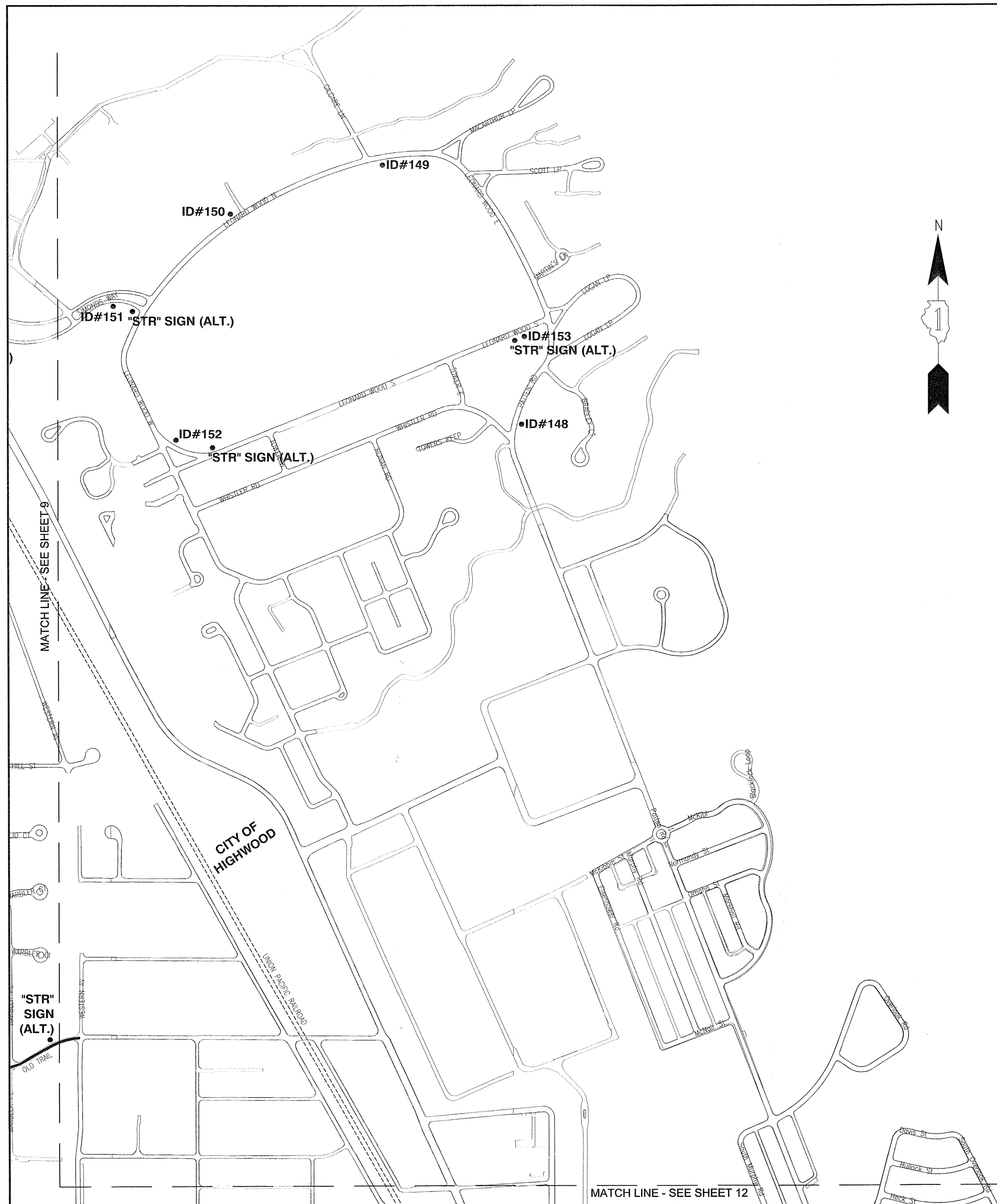
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGNS AND SHARROWS ROUTE MAP**

SCALE: 1"=300'

SHEET NO. 12 OF 30 SHEETS STA. STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	12
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		



MATCH LINE - SEE SHEET 9

MATCH LINE - SEE SHEET 12

**DOLAND ENGINEERING, LLC**  
 CIVIL ENGINEERS - LAND SURVEYORS - LAND PLANNING  
 304 EAST POLARIS STREET, SUITE C  
 PALATKA, ILLINOIS 60067  
 (847) 398-5588 (847) 394-3427 FAX  
 www.dolandengineering.com

USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	DRAWN:	REVISED:
PLOT DATE:	CHECKED:	REVISED:
	DATE:	REVISED:

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNS AND SHARROWS ROUTE MAP**

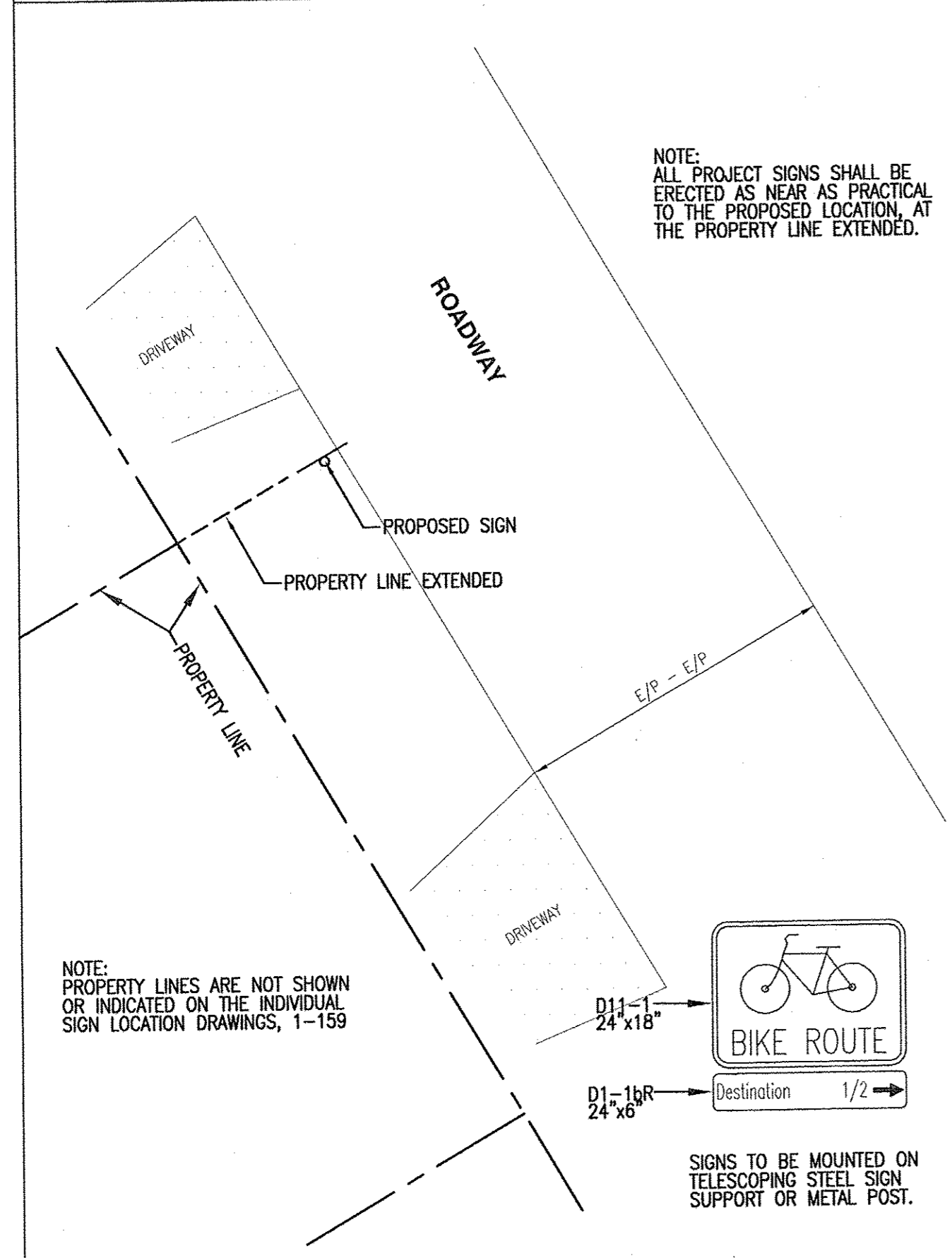
SCALE: 1"=300'

SHEET NO. 13 OF 30 SHEETS

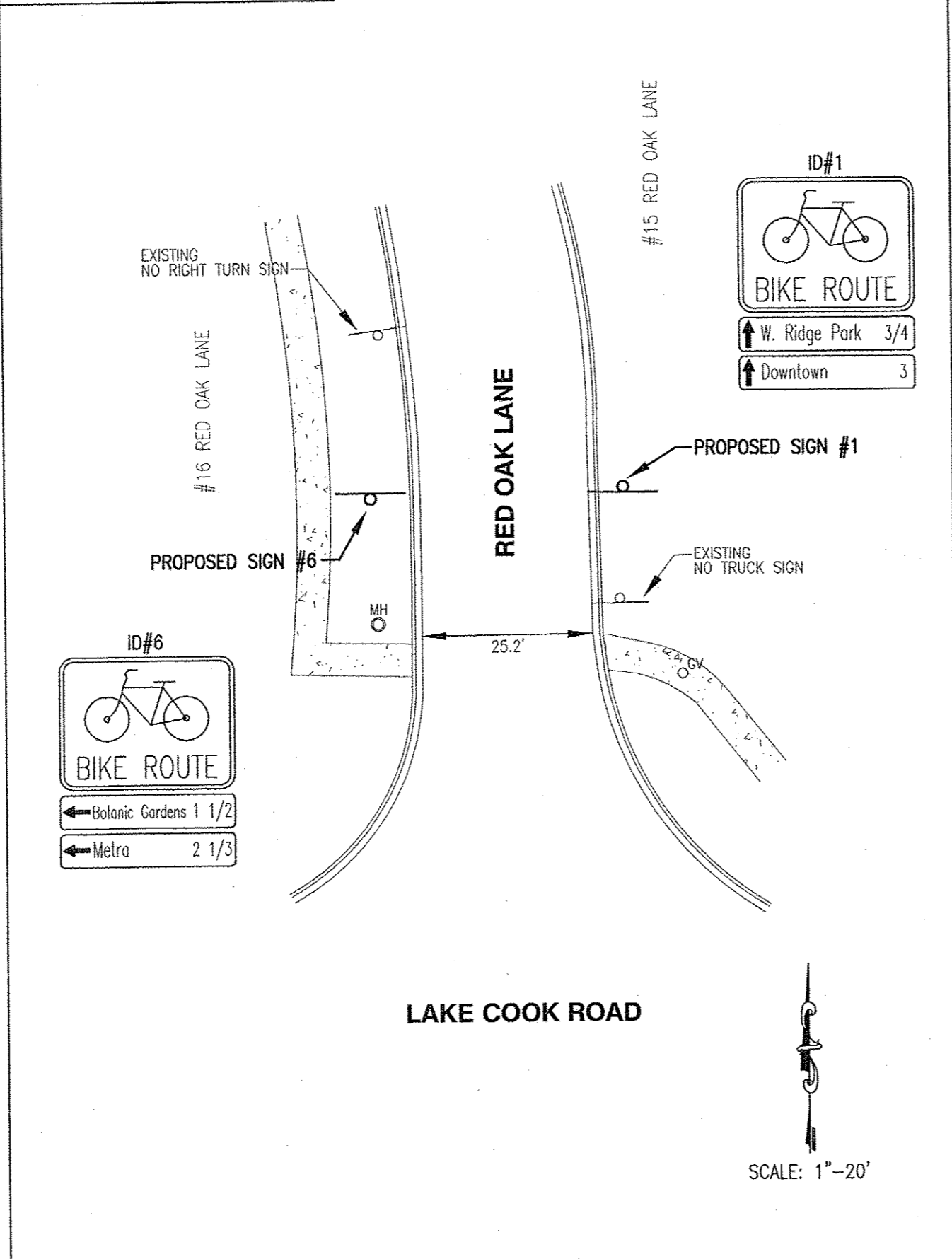
STA. STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	13
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

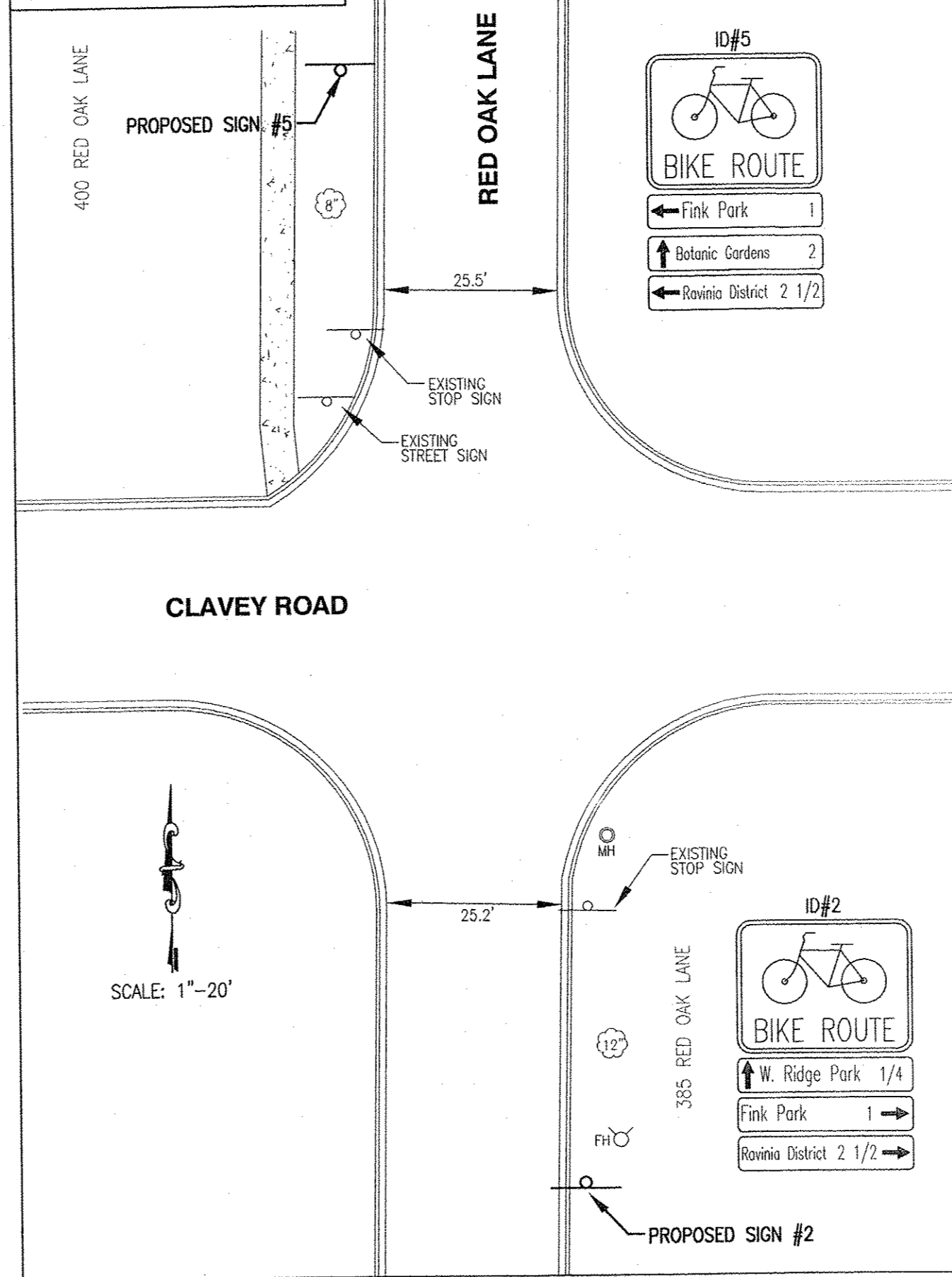
**TYPICAL BICYCLE ROUTE SIGNAGE DETAIL**



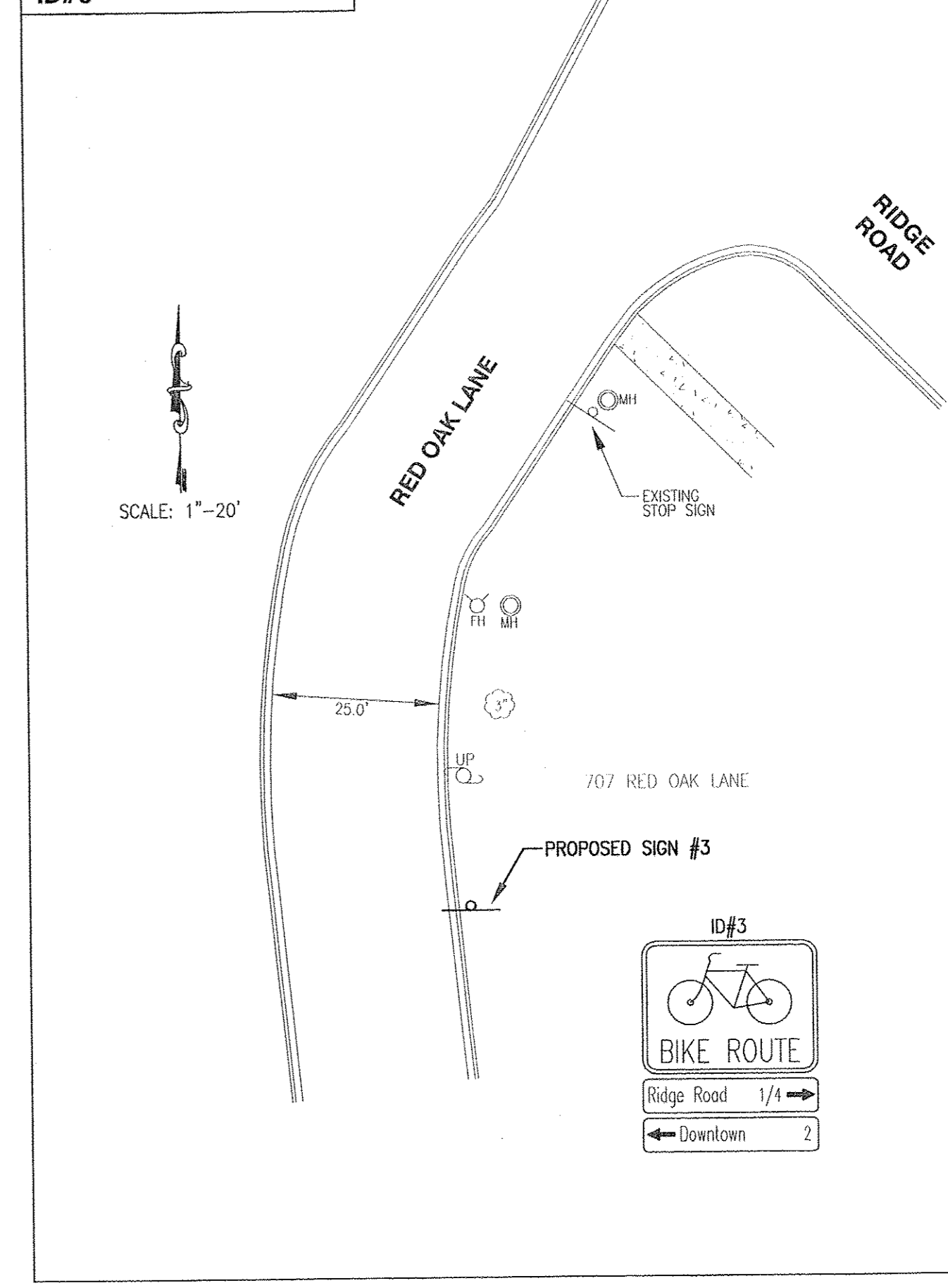
**BICYCLE ROUTE SIGNAGE ID#1 & 6**



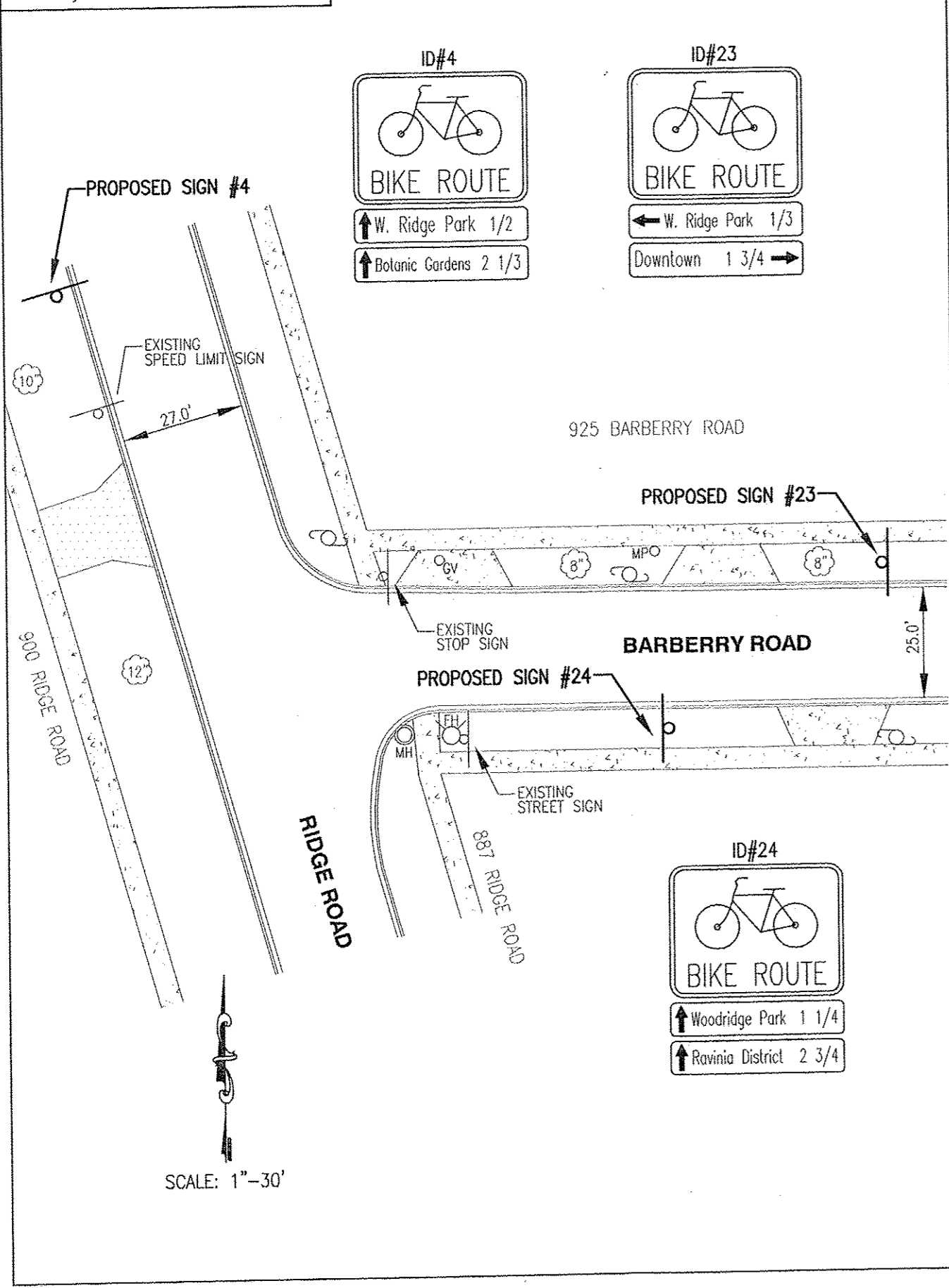
**BICYCLE ROUTE SIGNAGE ID#2 & 5**



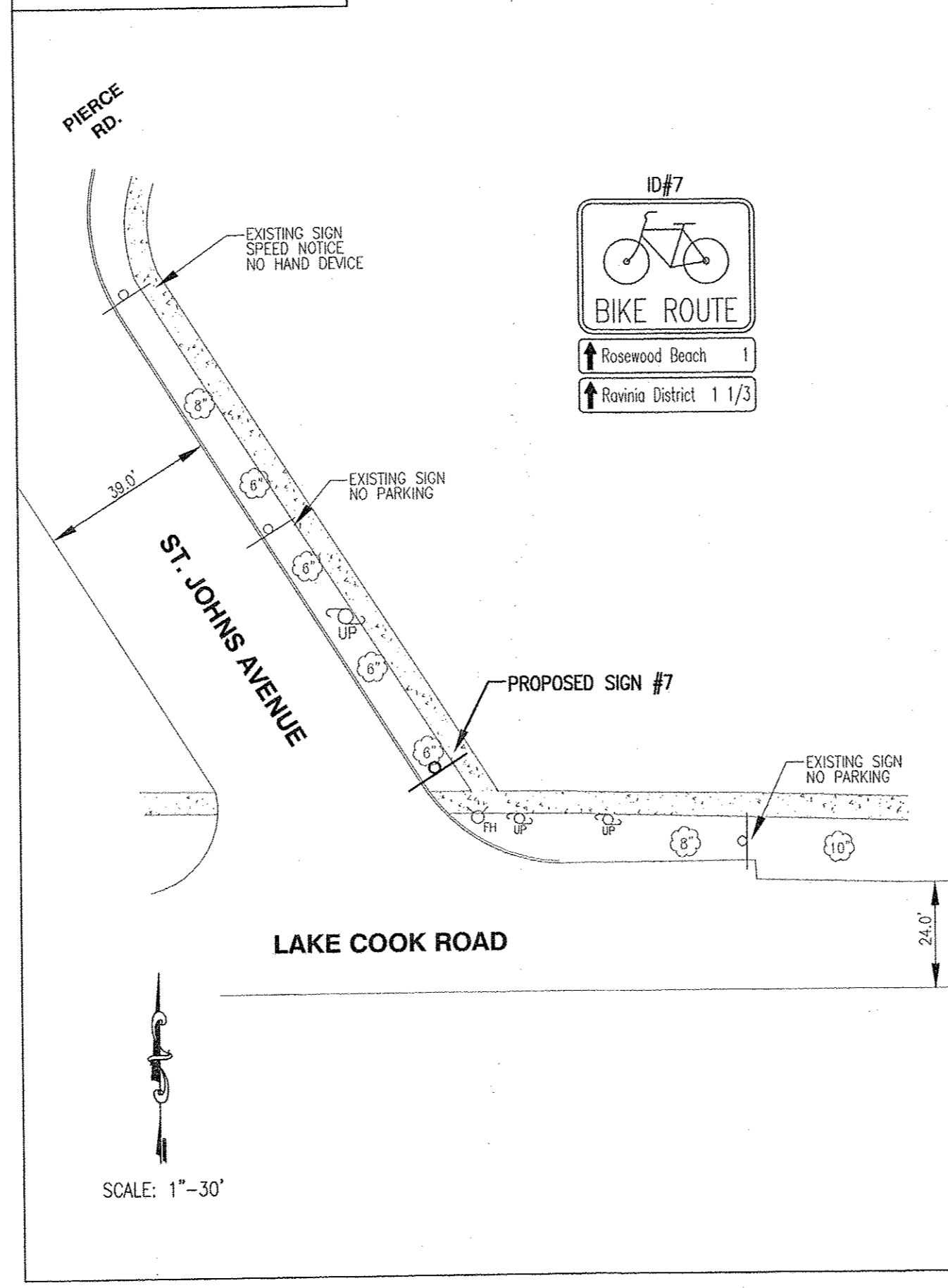
**BICYCLE ROUTE SIGNAGE ID#3**



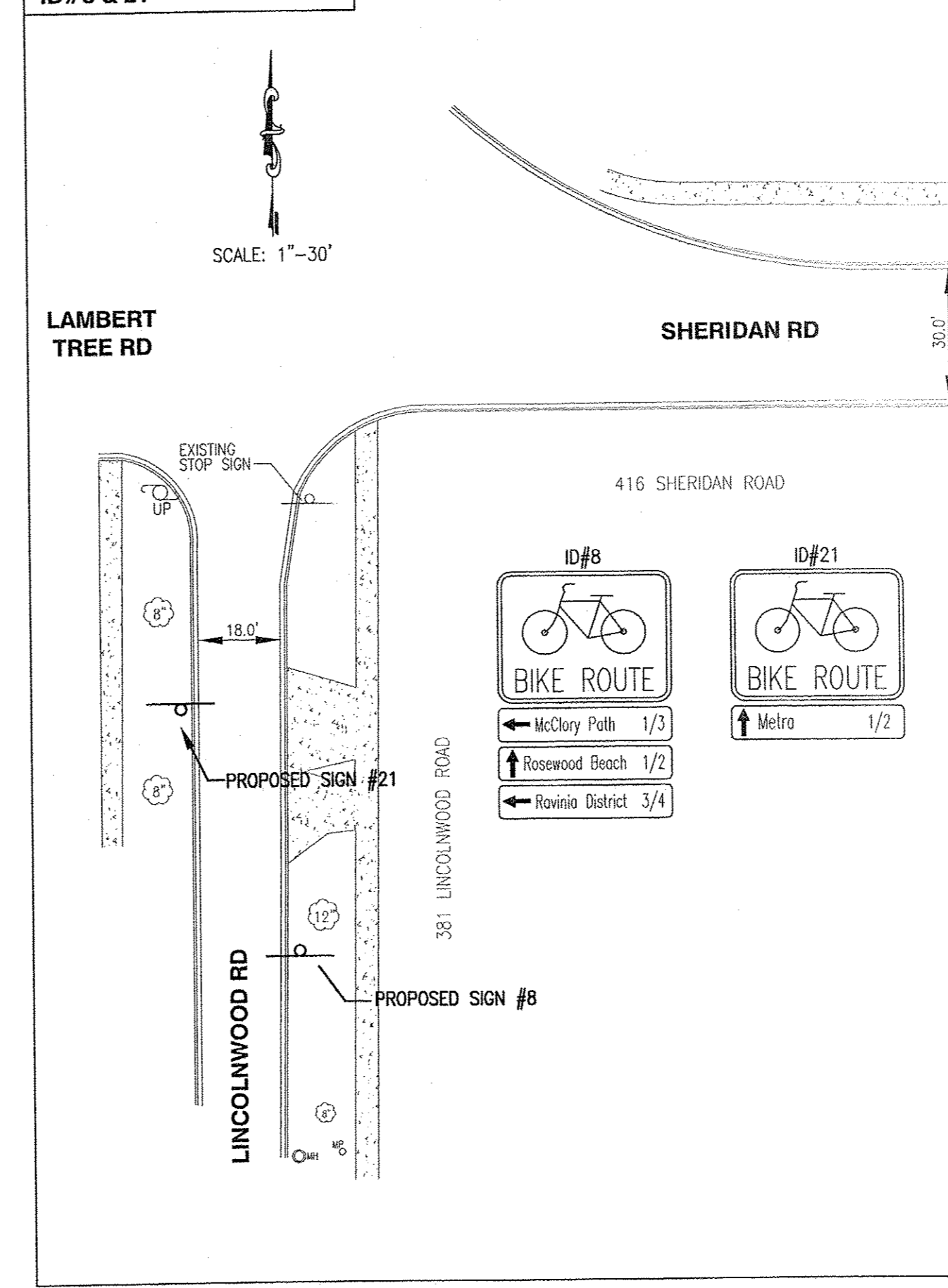
**BICYCLE ROUTE SIGNAGE ID#4, 23 & 24**



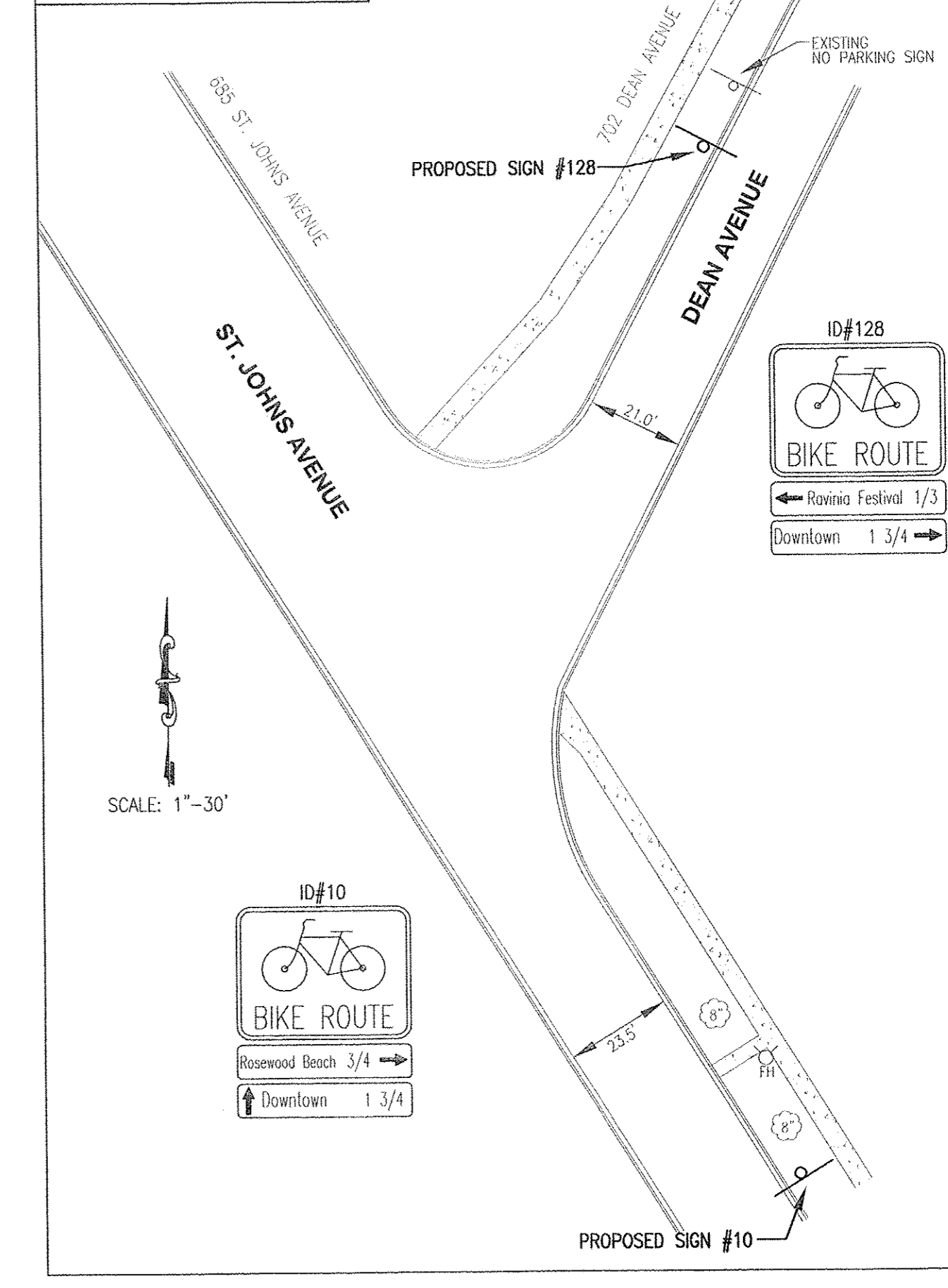
**BICYCLE ROUTE SIGNAGE ID#7**



**BICYCLE ROUTE SIGNAGE ID#8 & 21**



**BICYCLE ROUTE SIGNAGE ID#10 & 128**



**DOLAND ENGINEERING, LLC**  
301 EAST COLFAX STREET, SUITE C  
PALM BEACH, FLORIDA 33480  
(561) 991-5088 (561) 991-2427 FAX  
www.dolandengineering.com

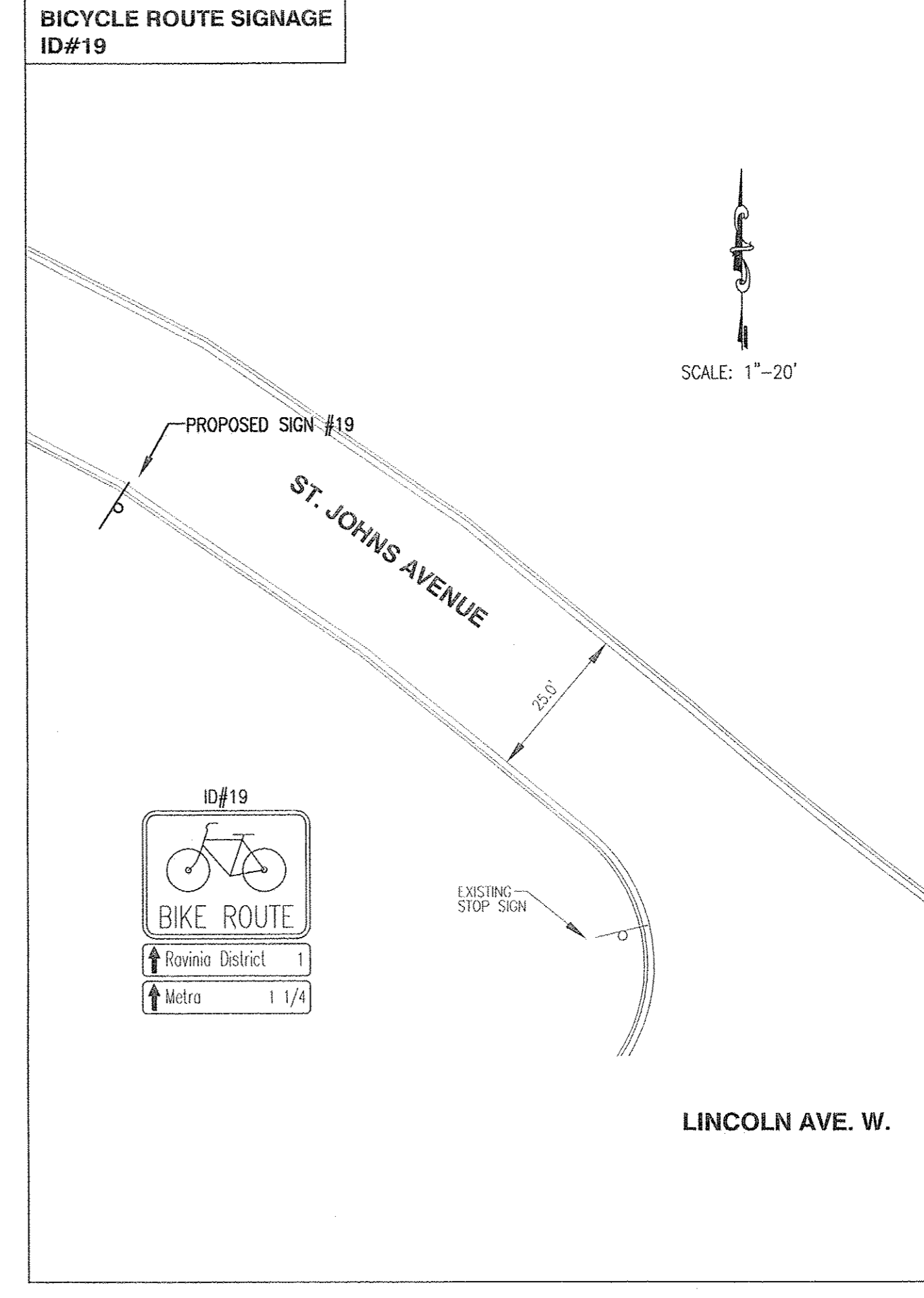
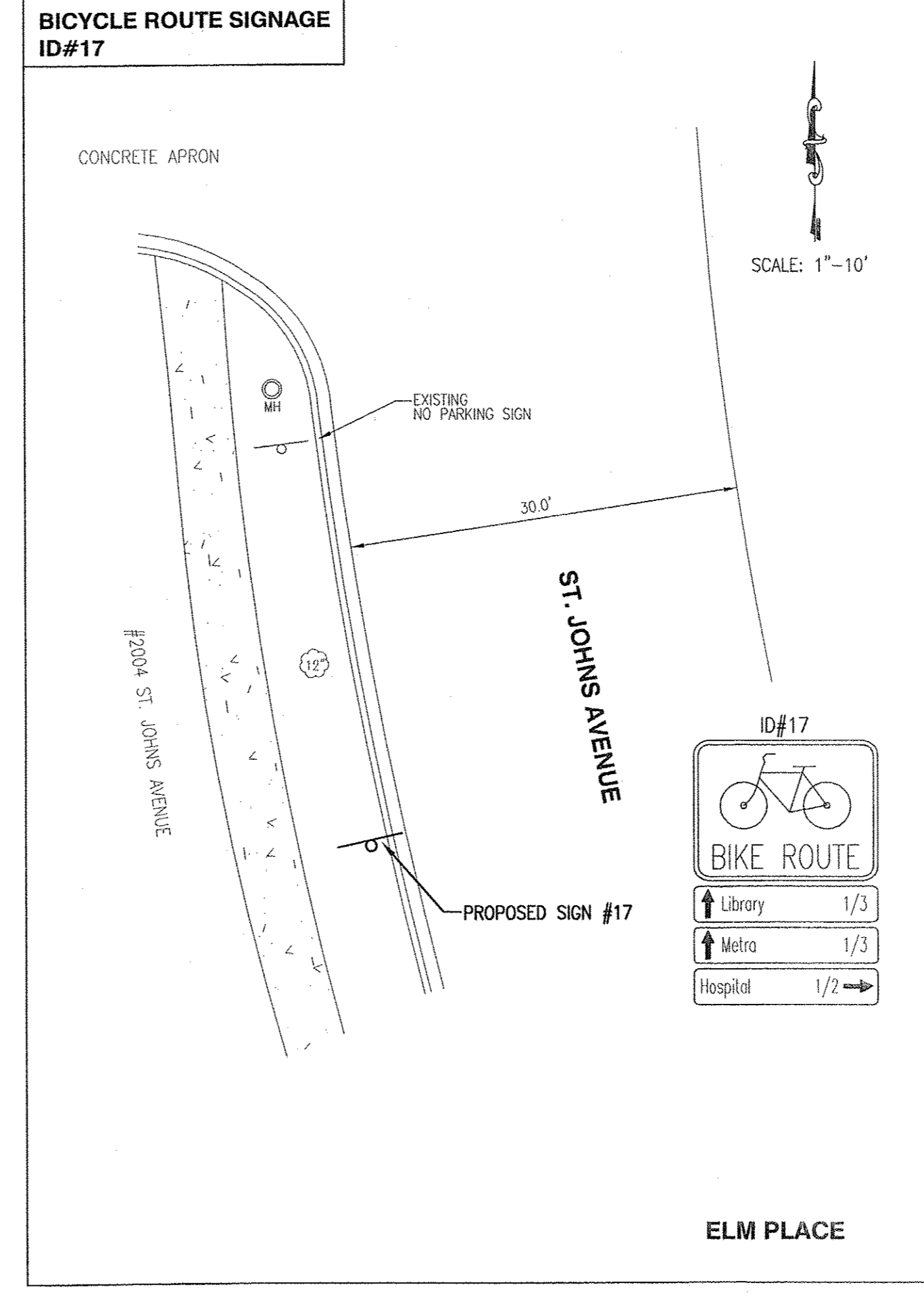
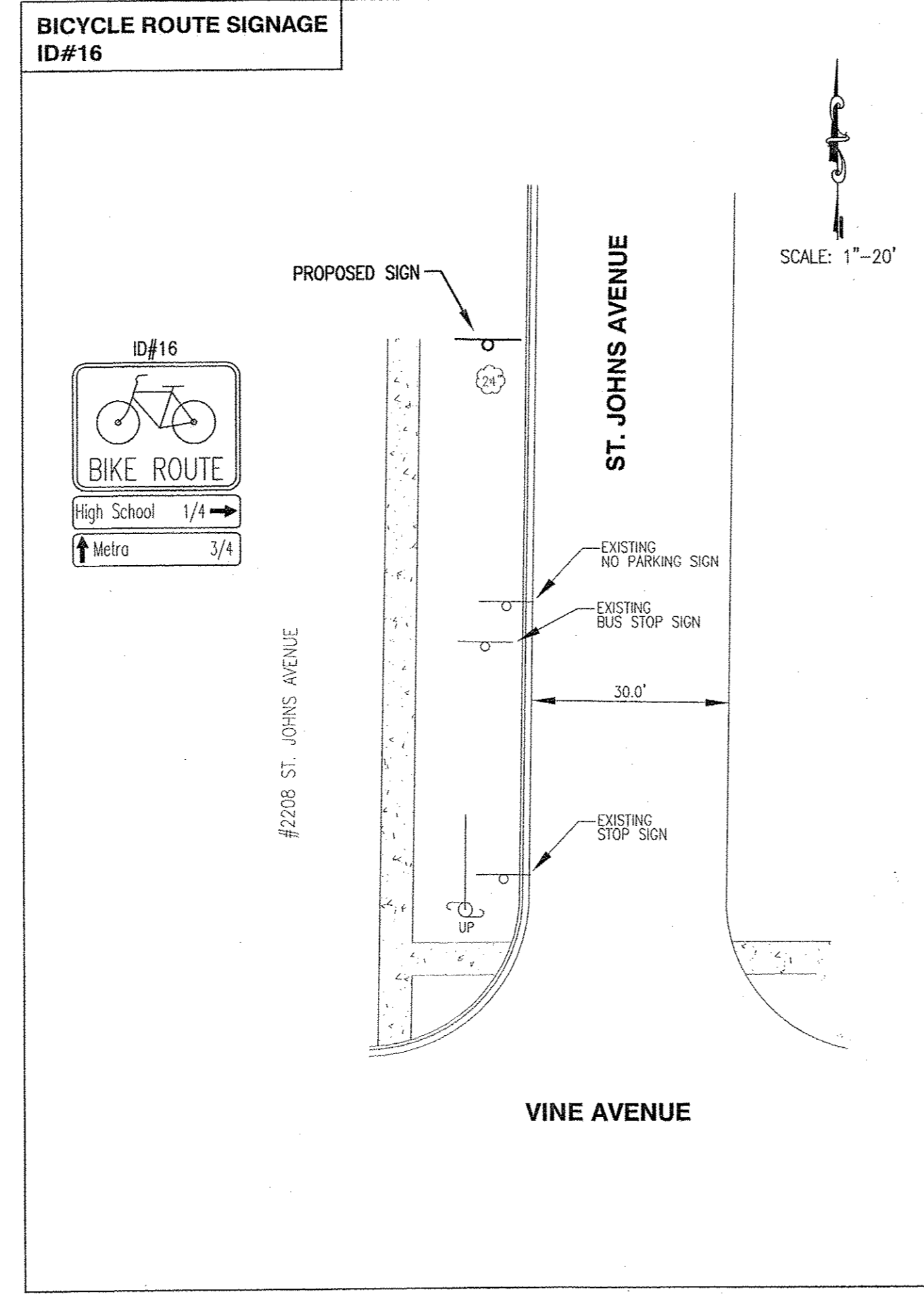
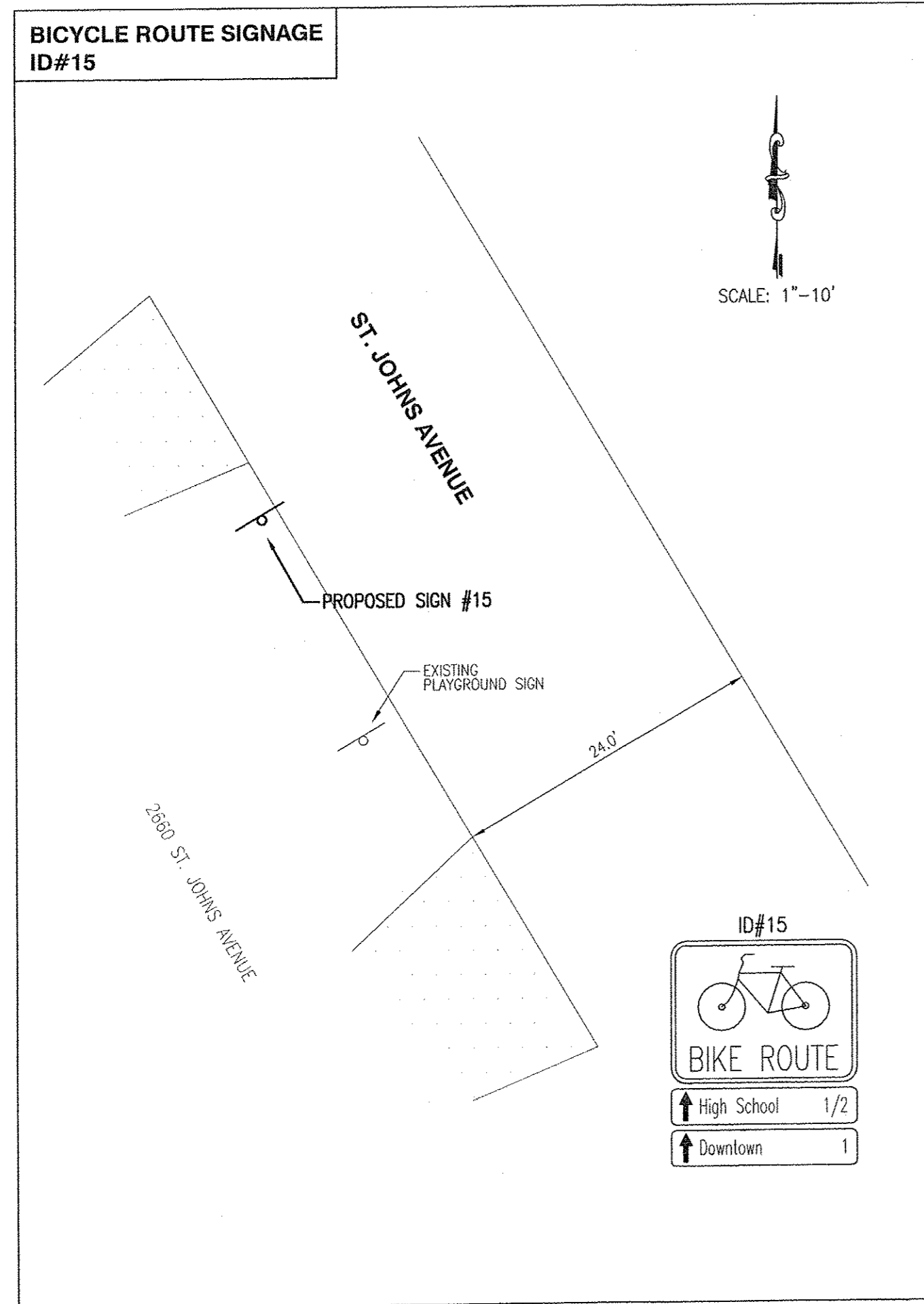
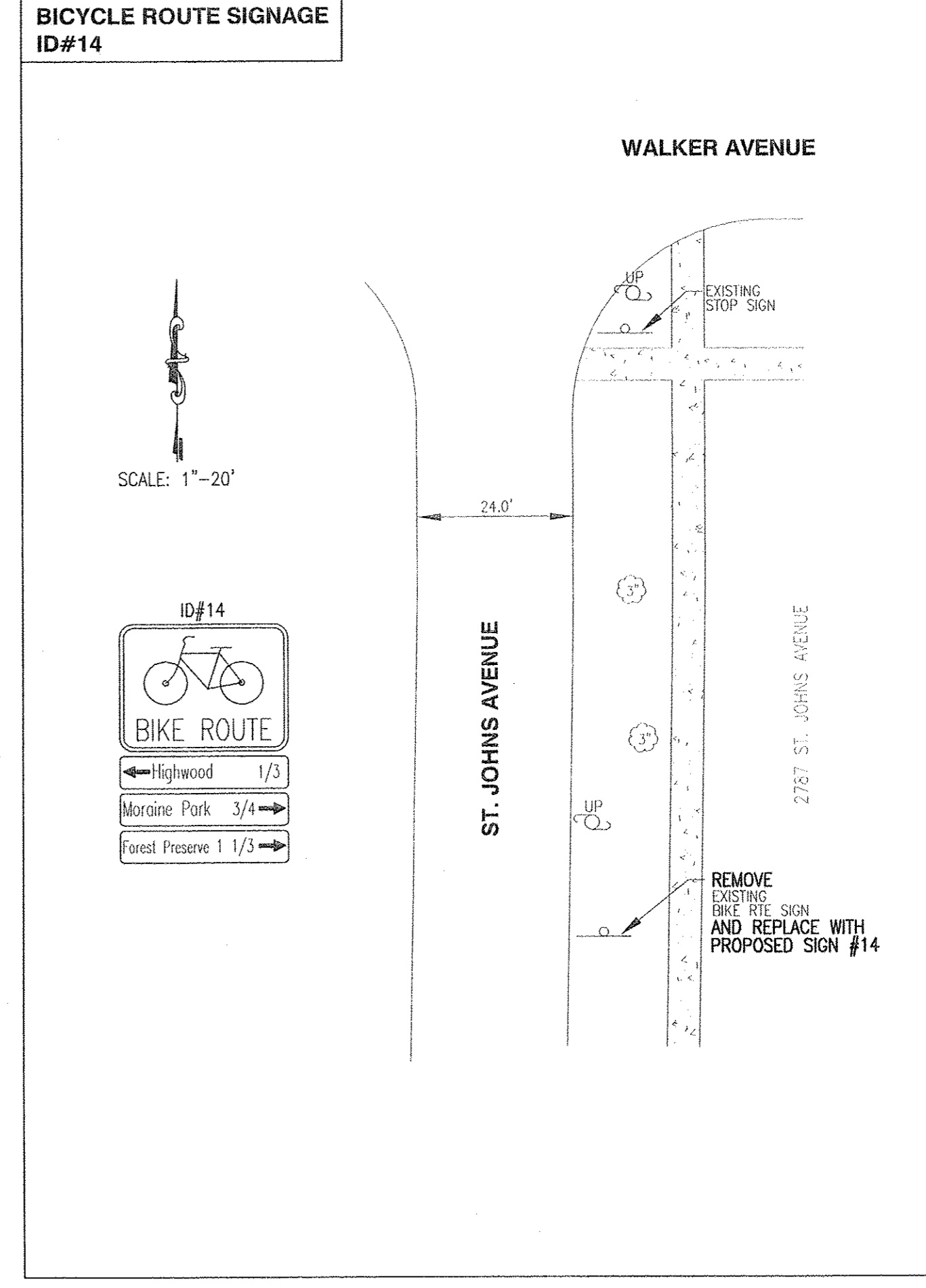
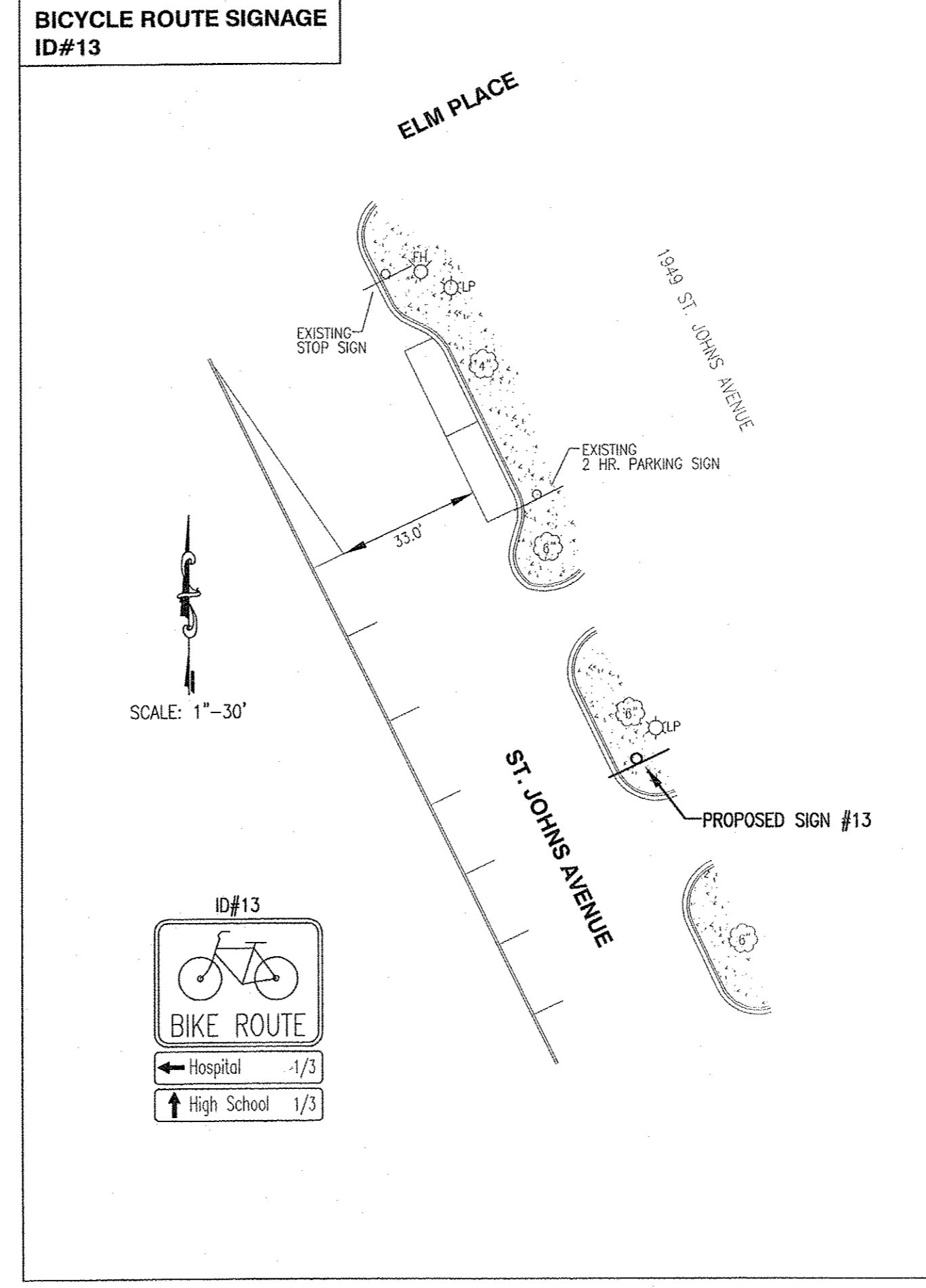
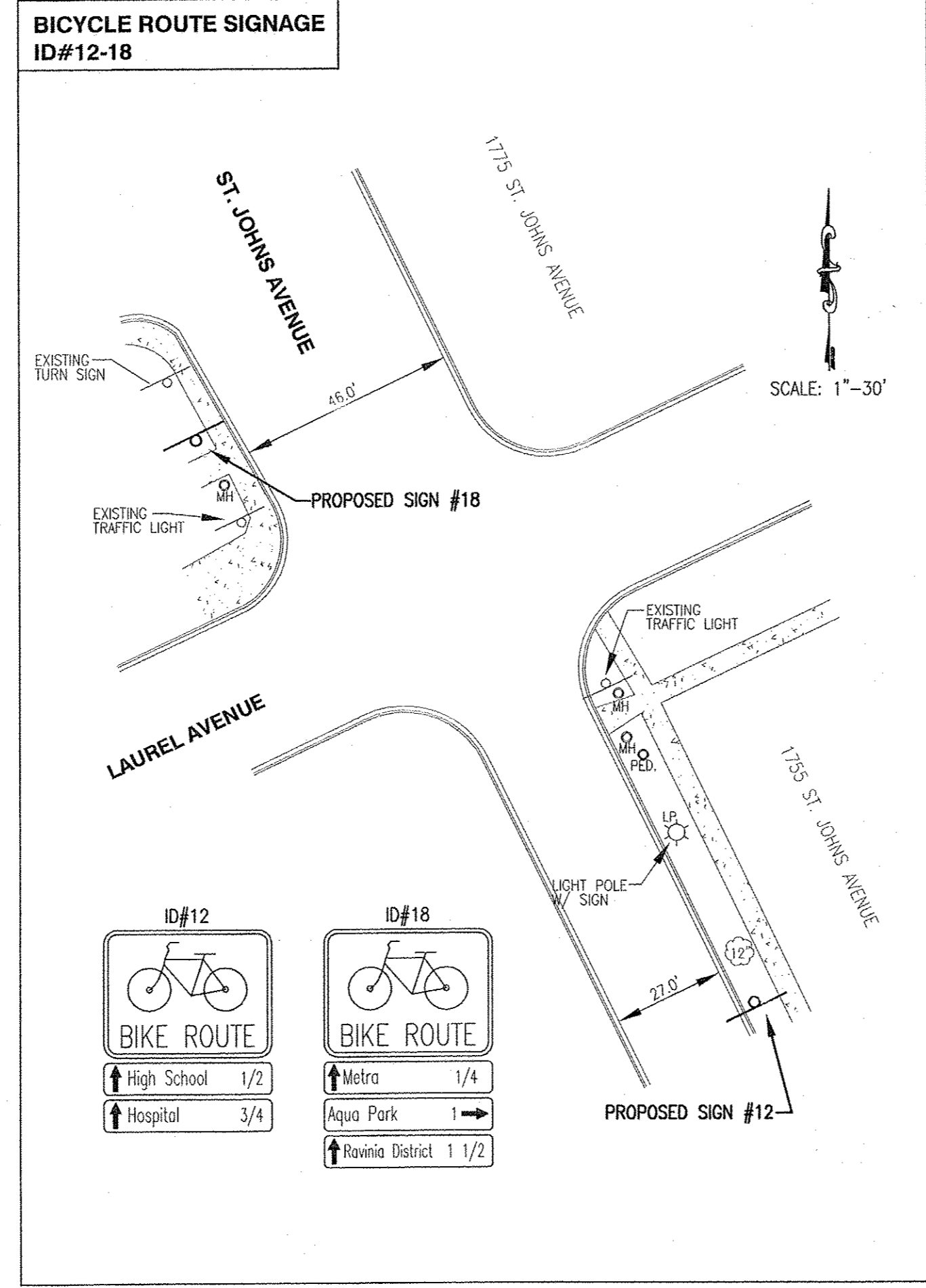
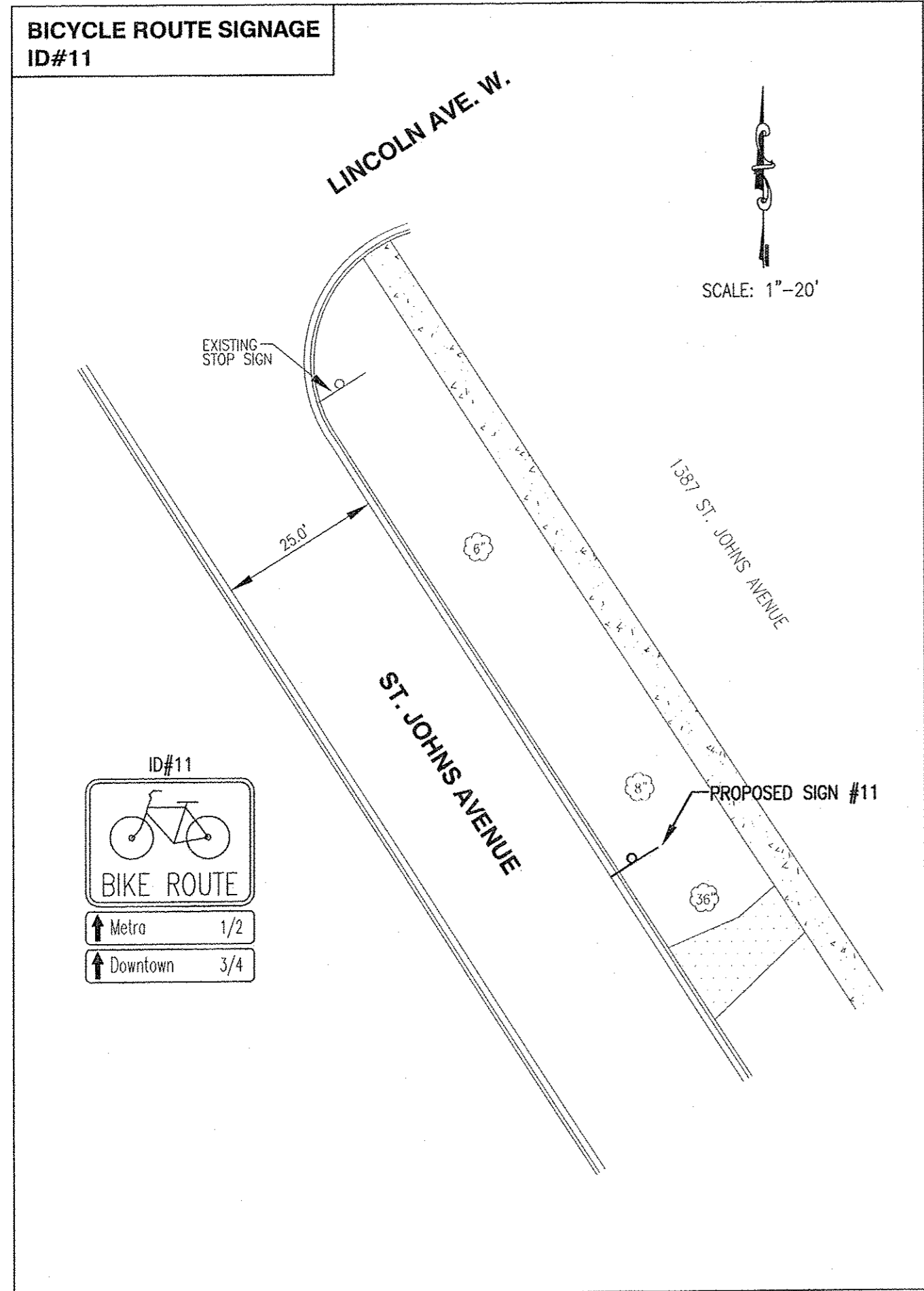
USER NAME:	DESIGNED:	REVISED:
DRAWN:	REVISOR:	
CHECKED:	DATE:	
PLOT DATE:		

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**BICYCLE ROUTE SIGNAGE DETAILS**

SCALE: N/A SHEET NO. 14 OF 30 SHEETS STA. STA.

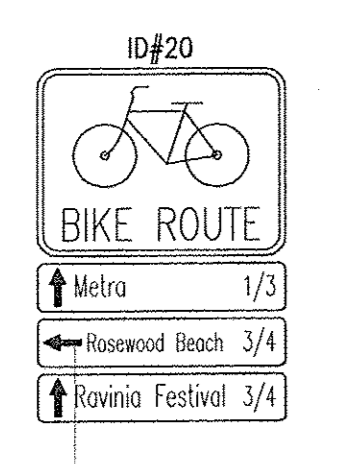
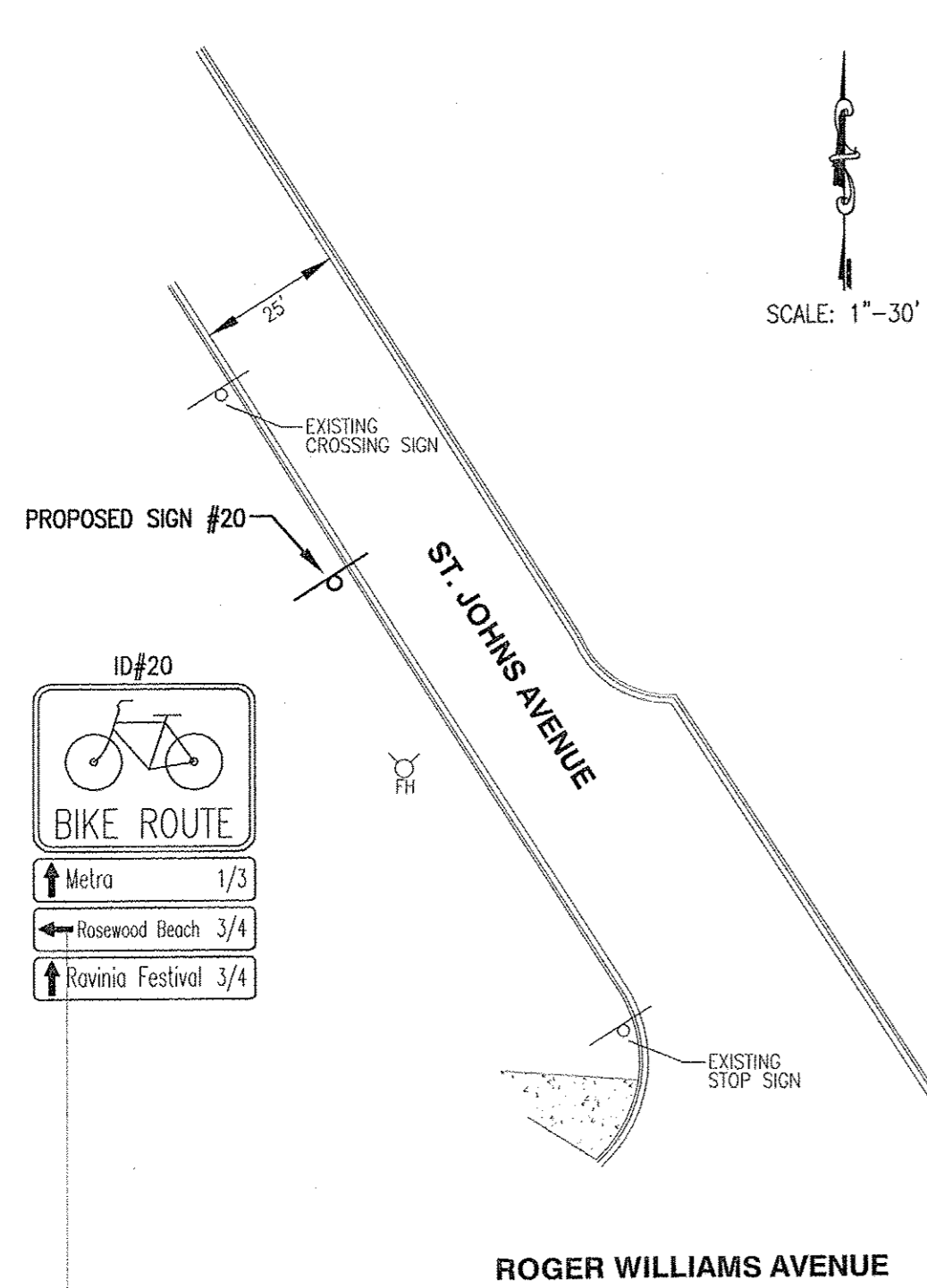
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	14
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		



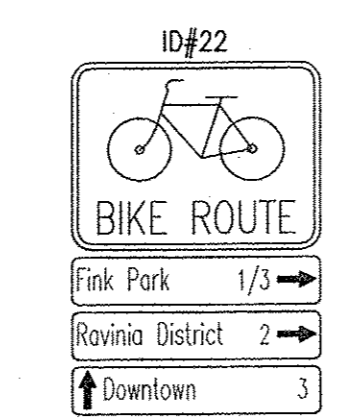
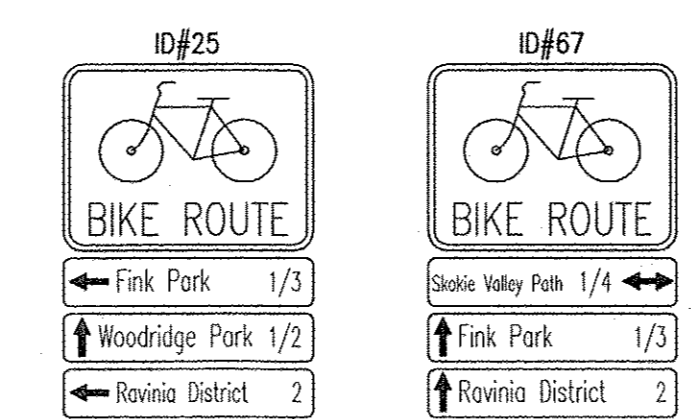
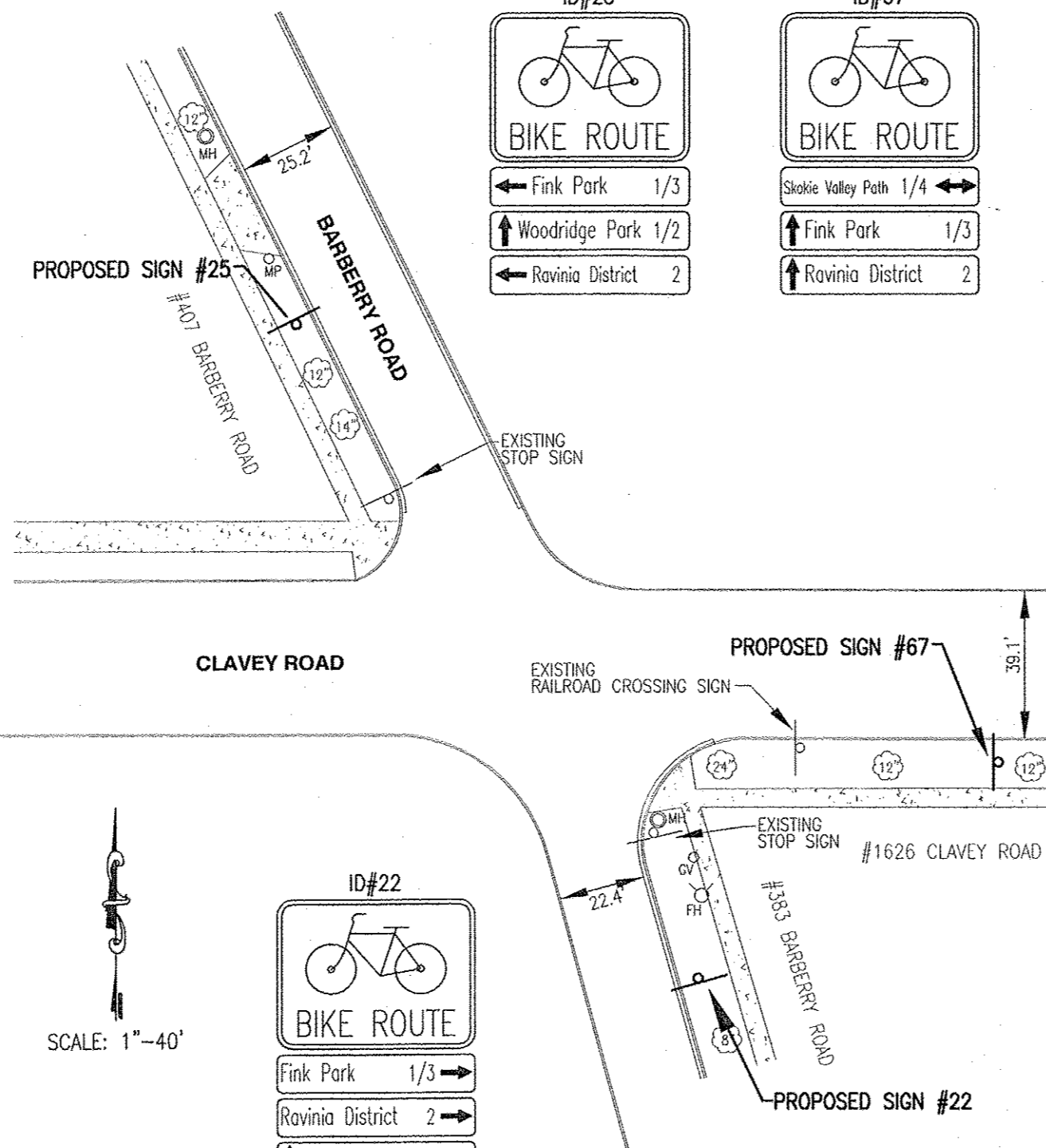
USER NAME:	DESIGNED:	REVISED:
DRAWN:	CHECKED:	REVISED:
PLOT SCALE:	DATE:	REVISED:
PLOT DATE:		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	15
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

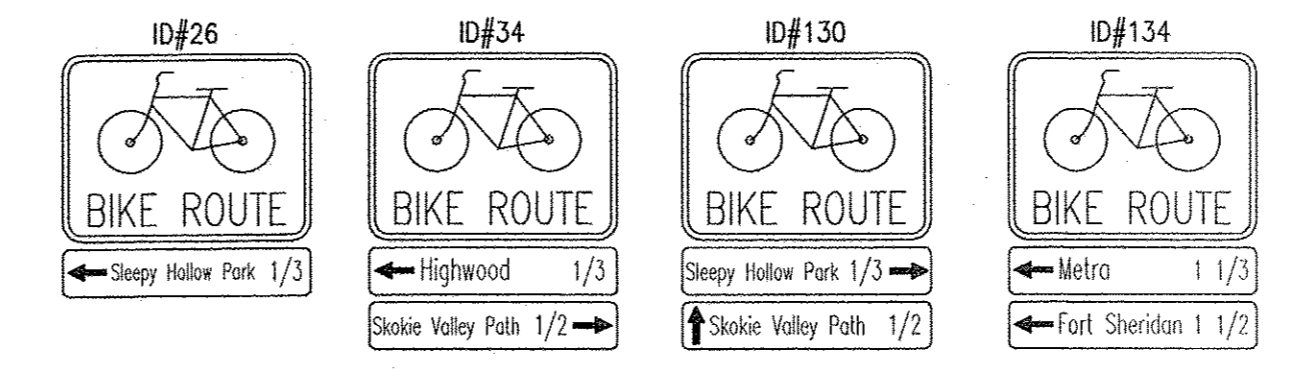
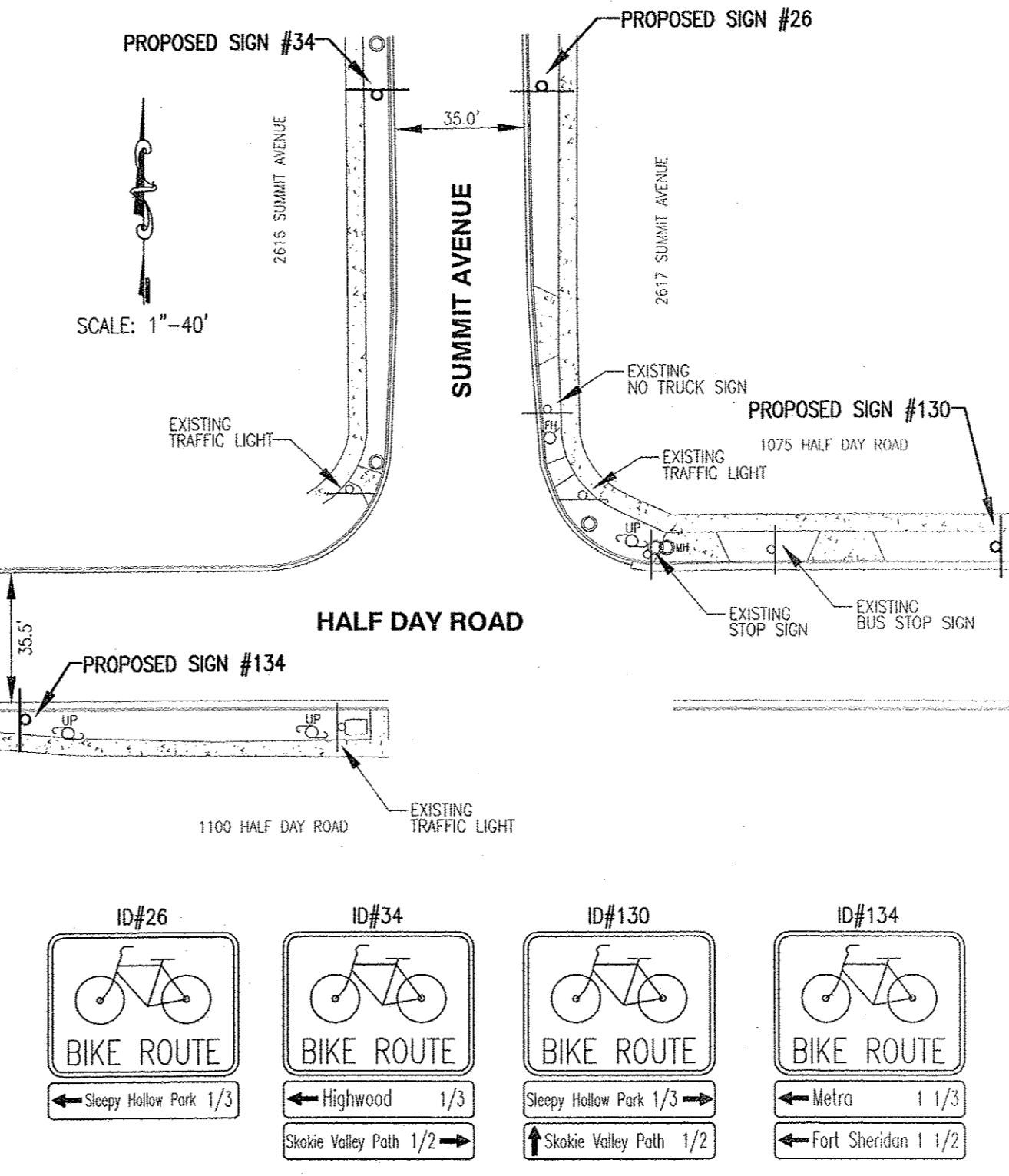
**BICYCLE ROUTE SIGNAGE  
ID#20**



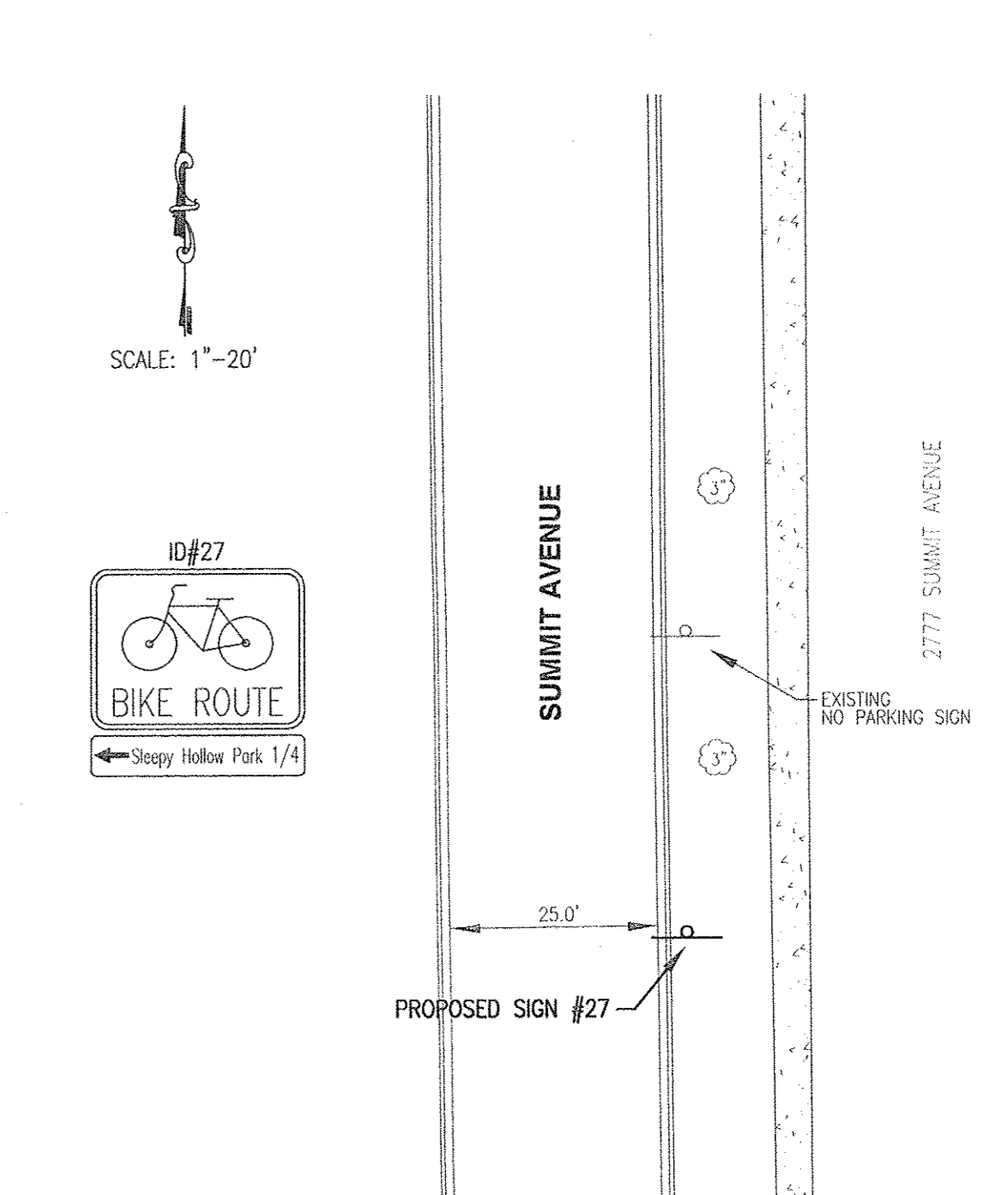
**BICYCLE ROUTE SIGNAGE  
ID#22, 25 & 67**



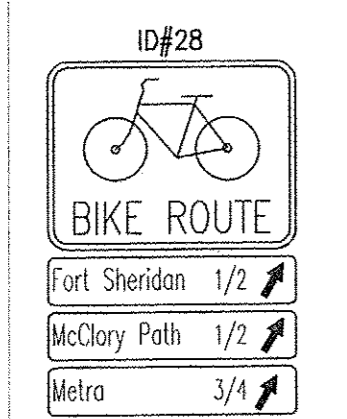
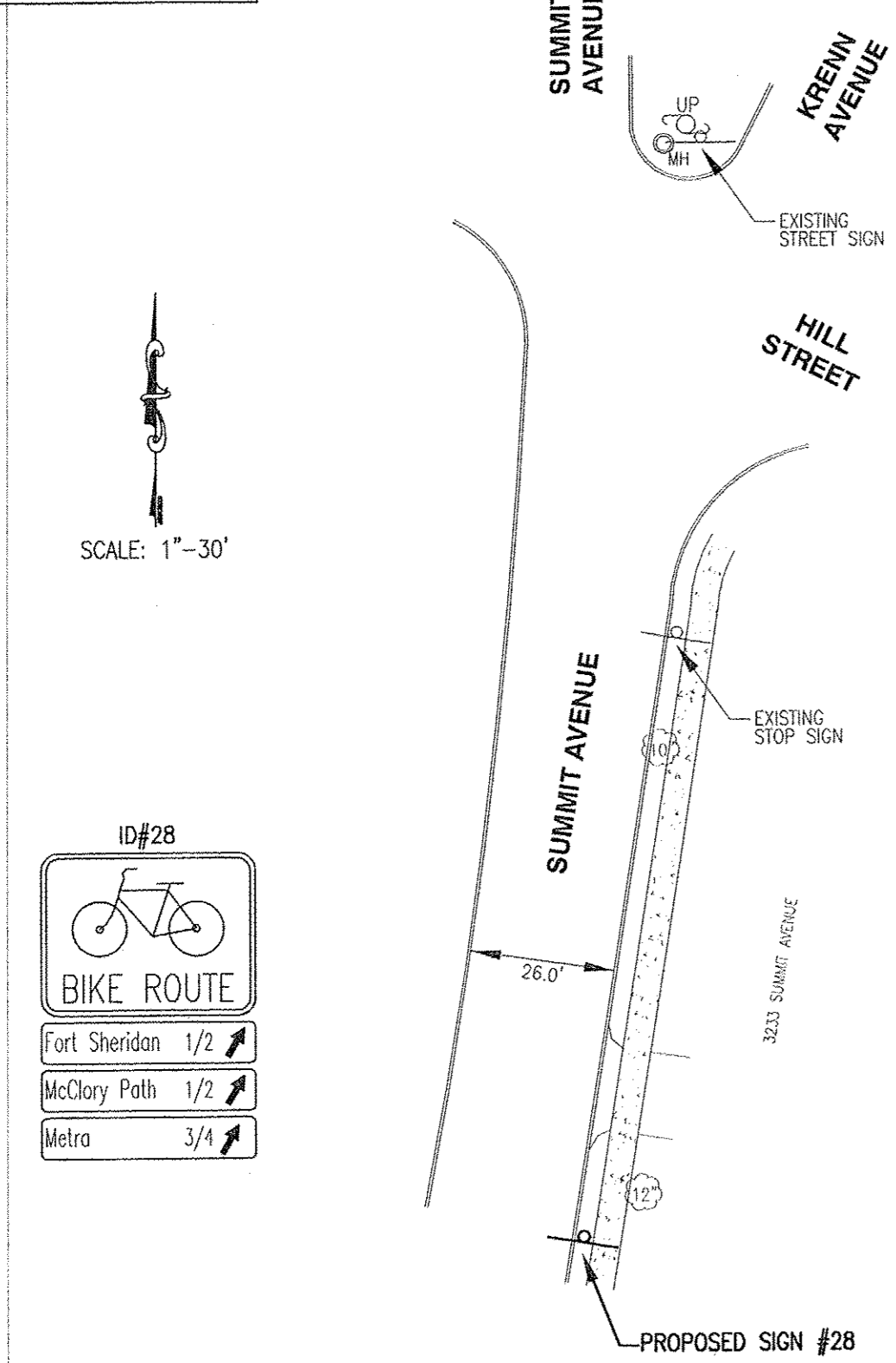
**BICYCLE ROUTE SIGNAGE  
ID#26, 34, 130, & 134**



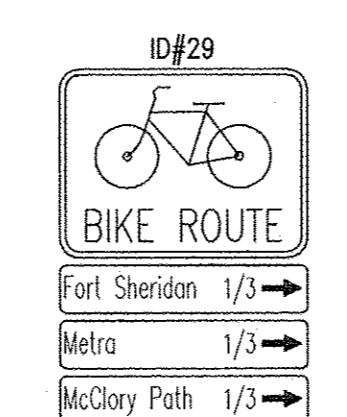
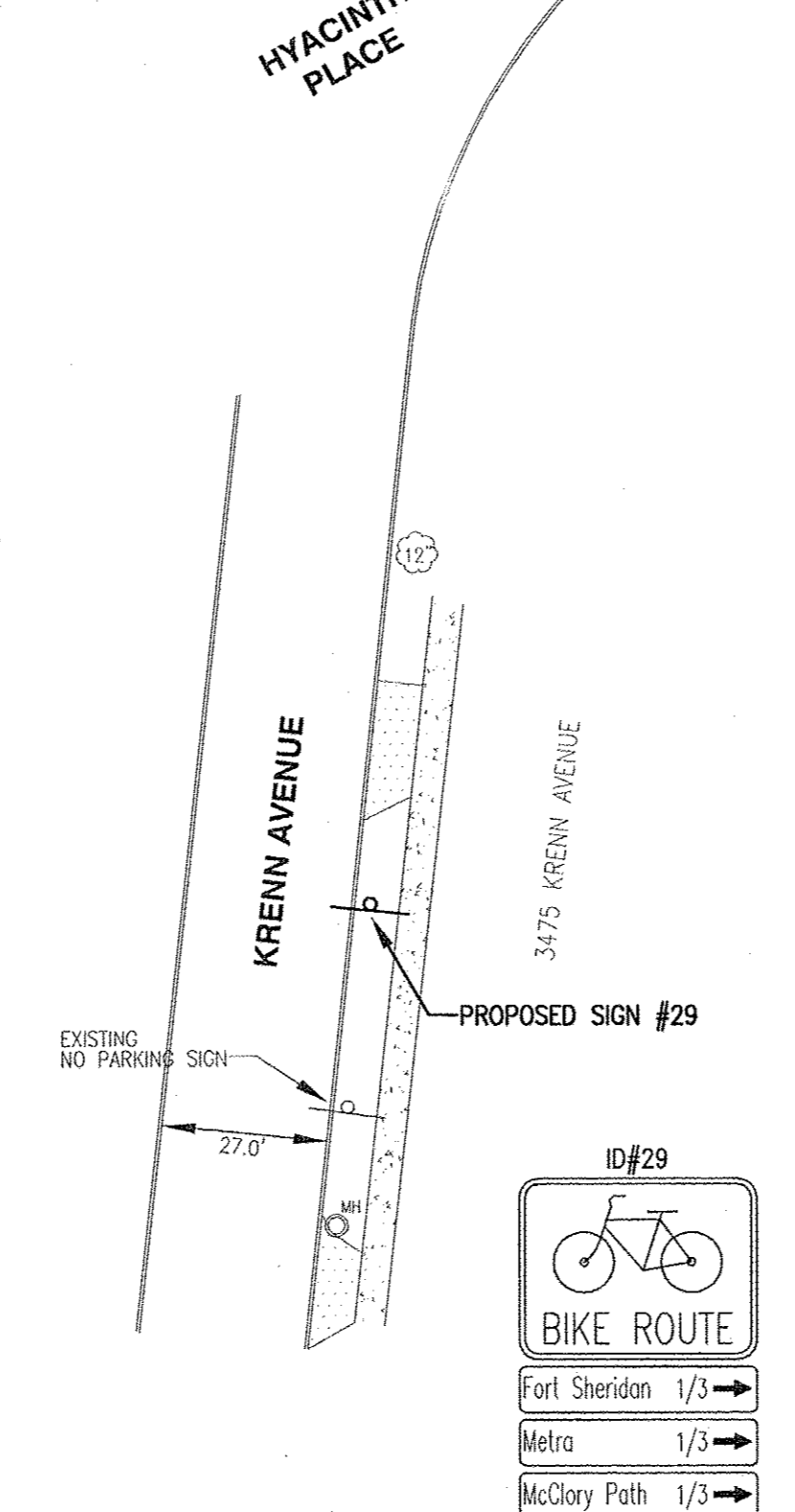
**BICYCLE ROUTE SIGNAGE  
ID#27**



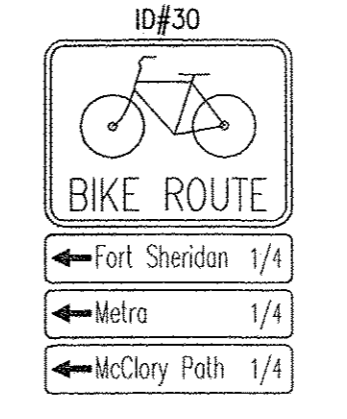
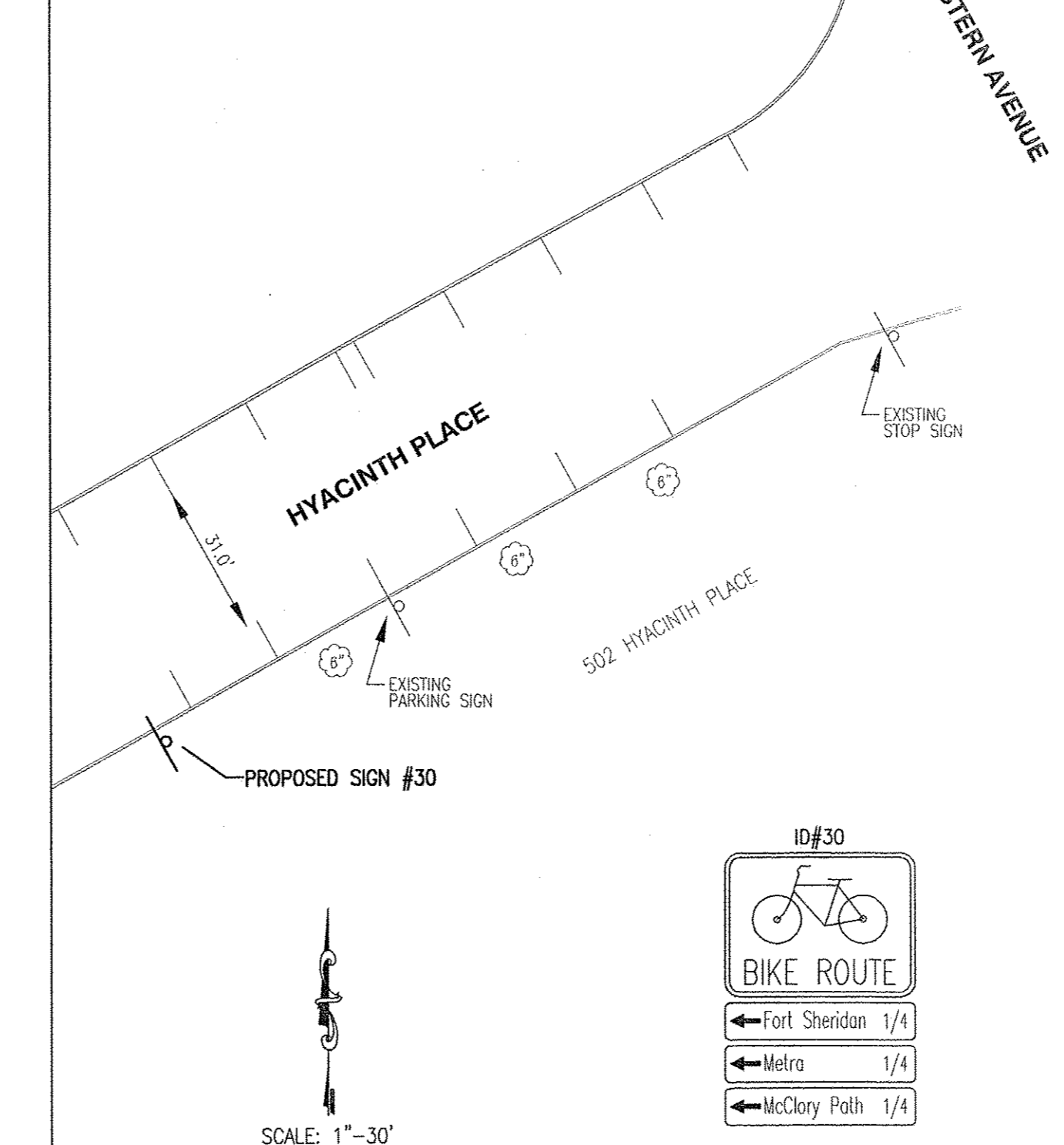
**BICYCLE ROUTE SIGNAGE  
ID#28**



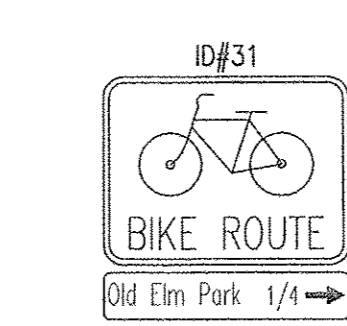
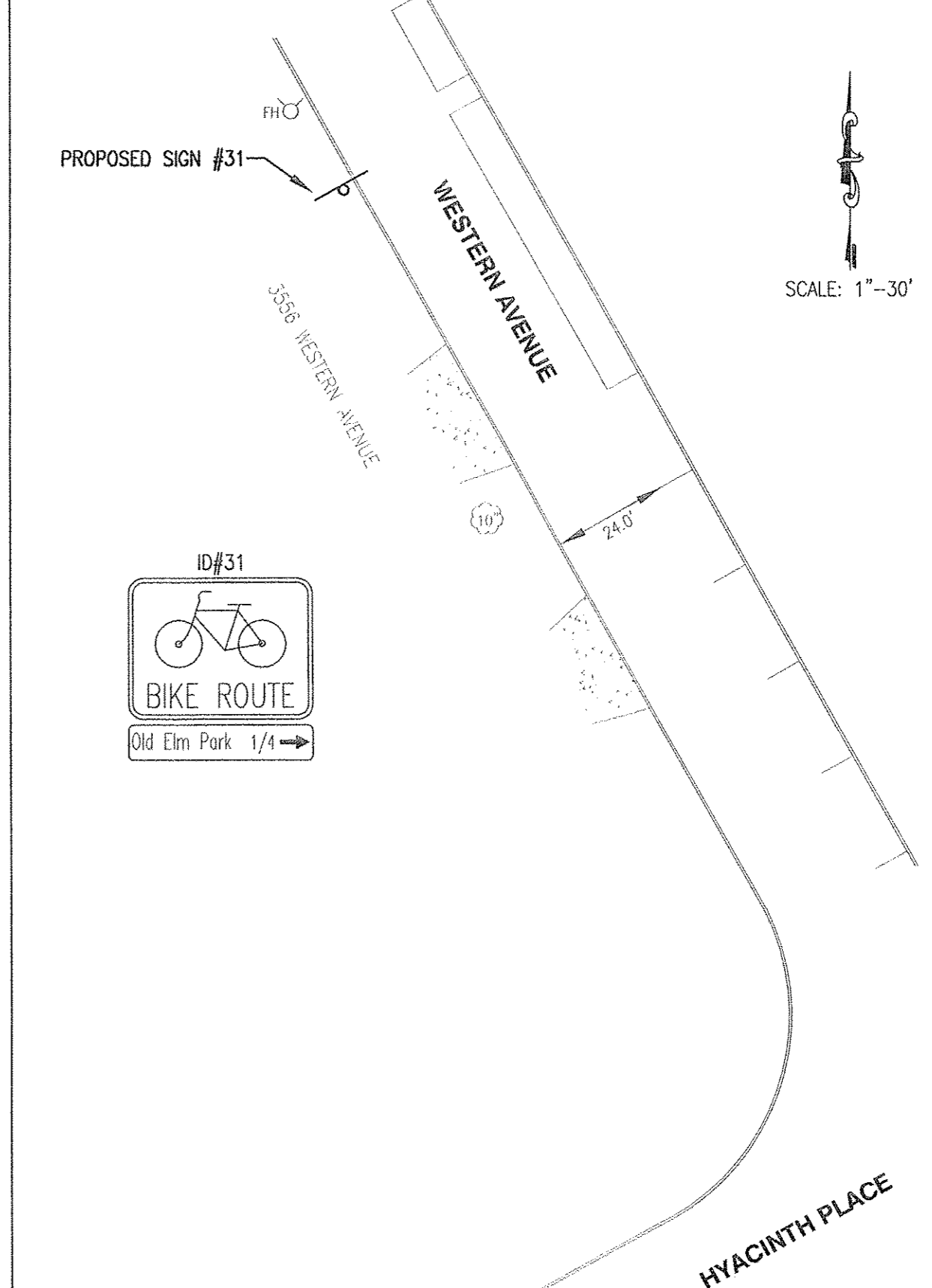
**BICYCLE ROUTE SIGNAGE  
ID#29**



**BICYCLE ROUTE SIGNAGE  
ID#30**



**BICYCLE ROUTE SIGNAGE  
ID#31**

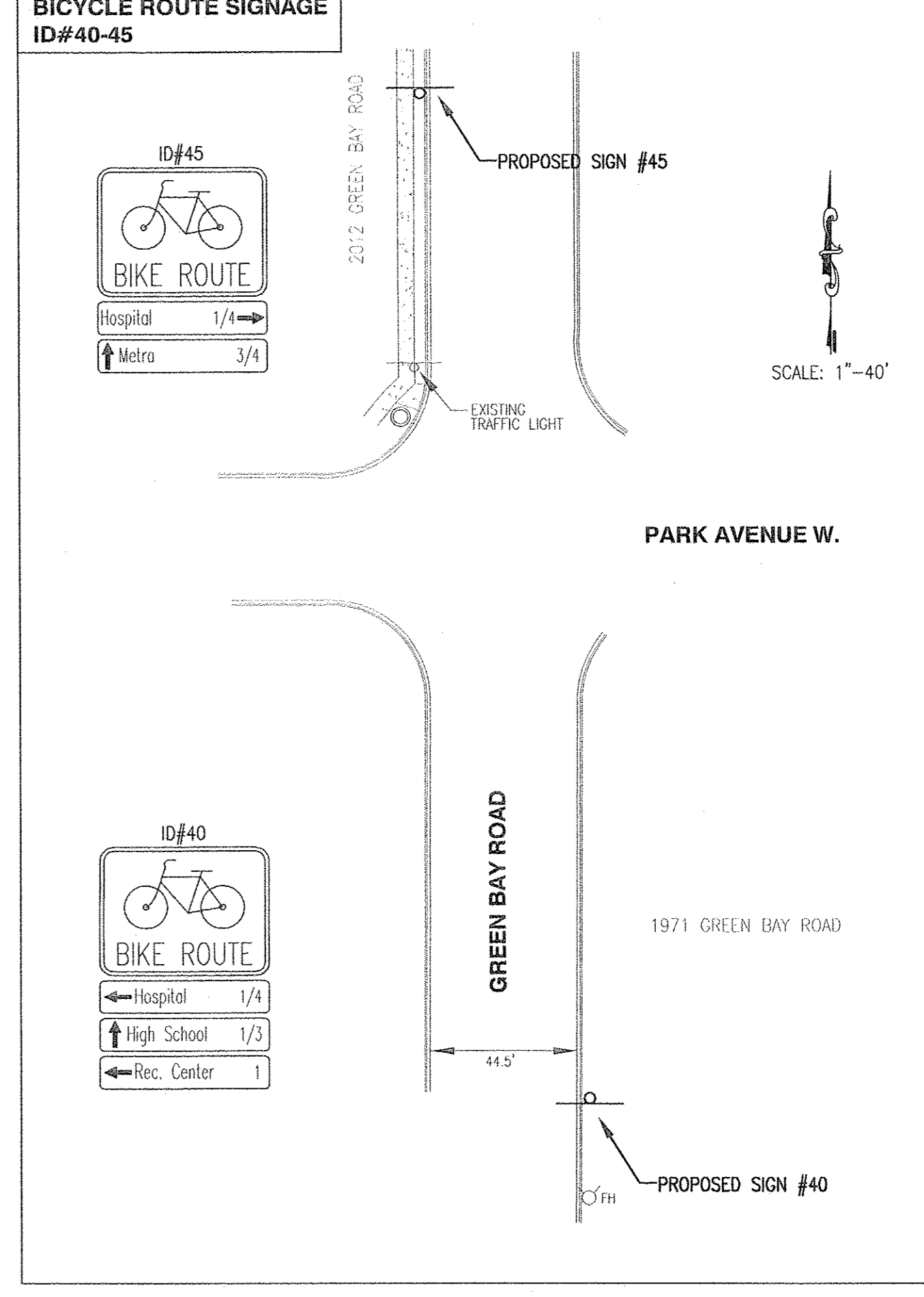
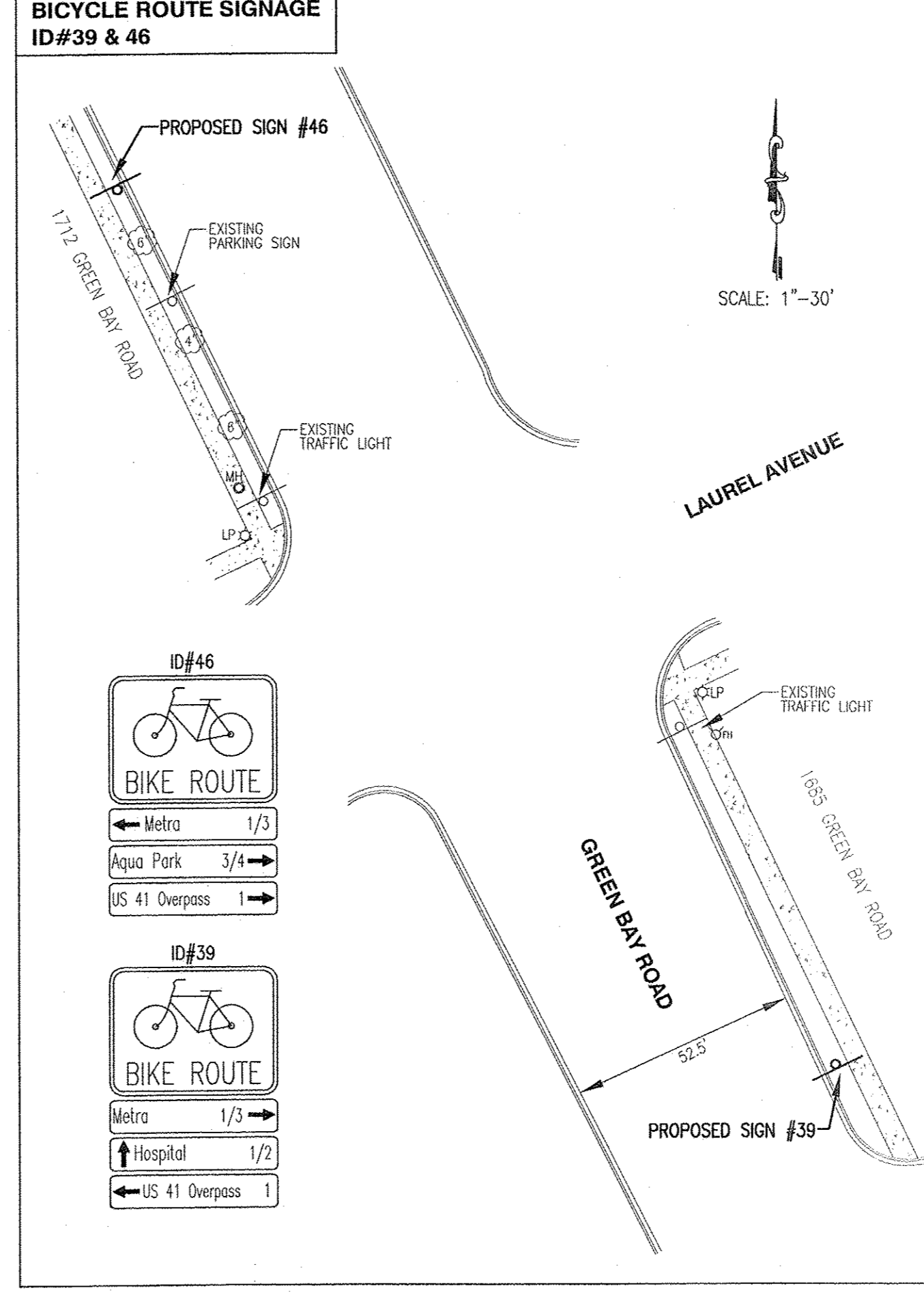
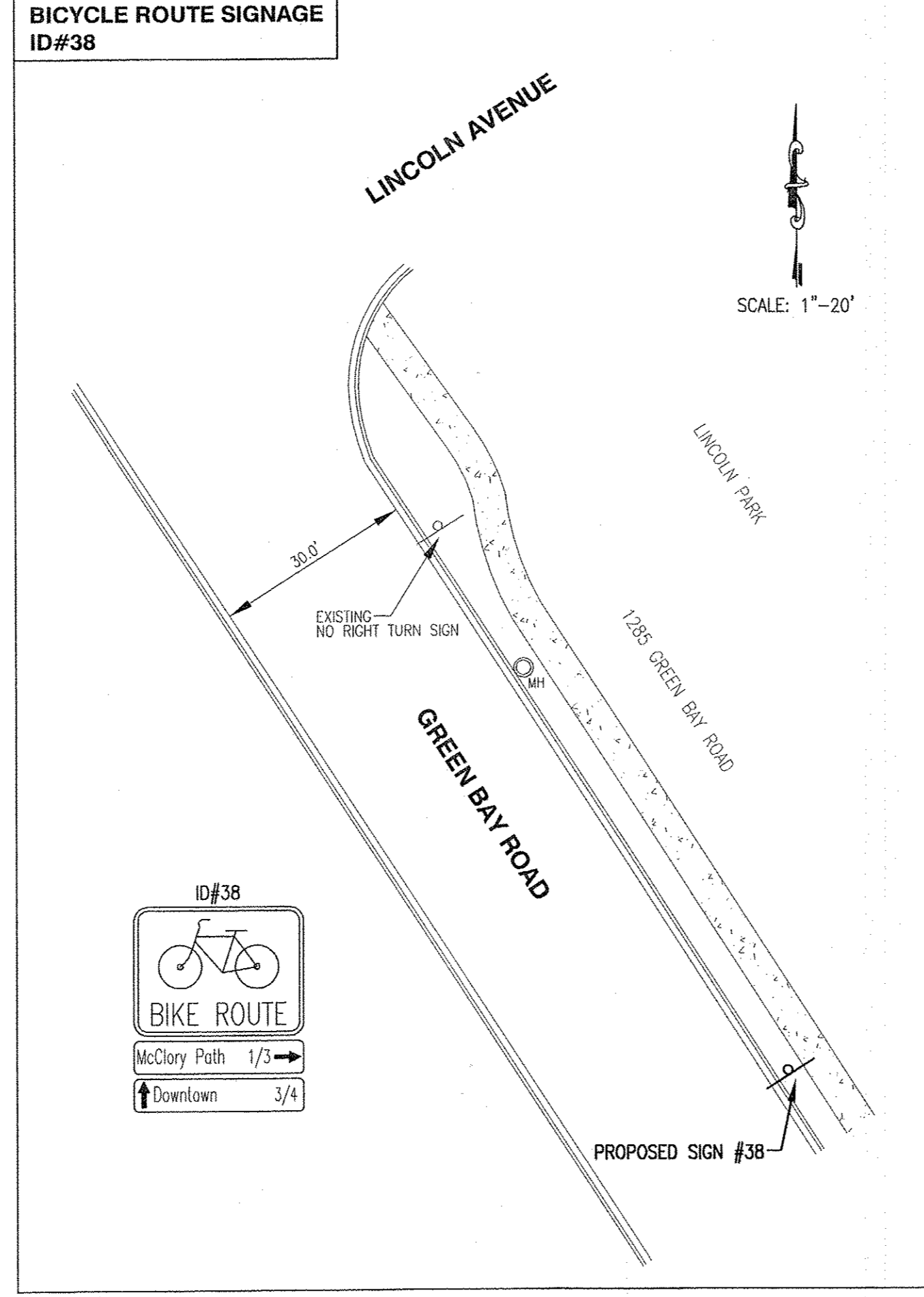
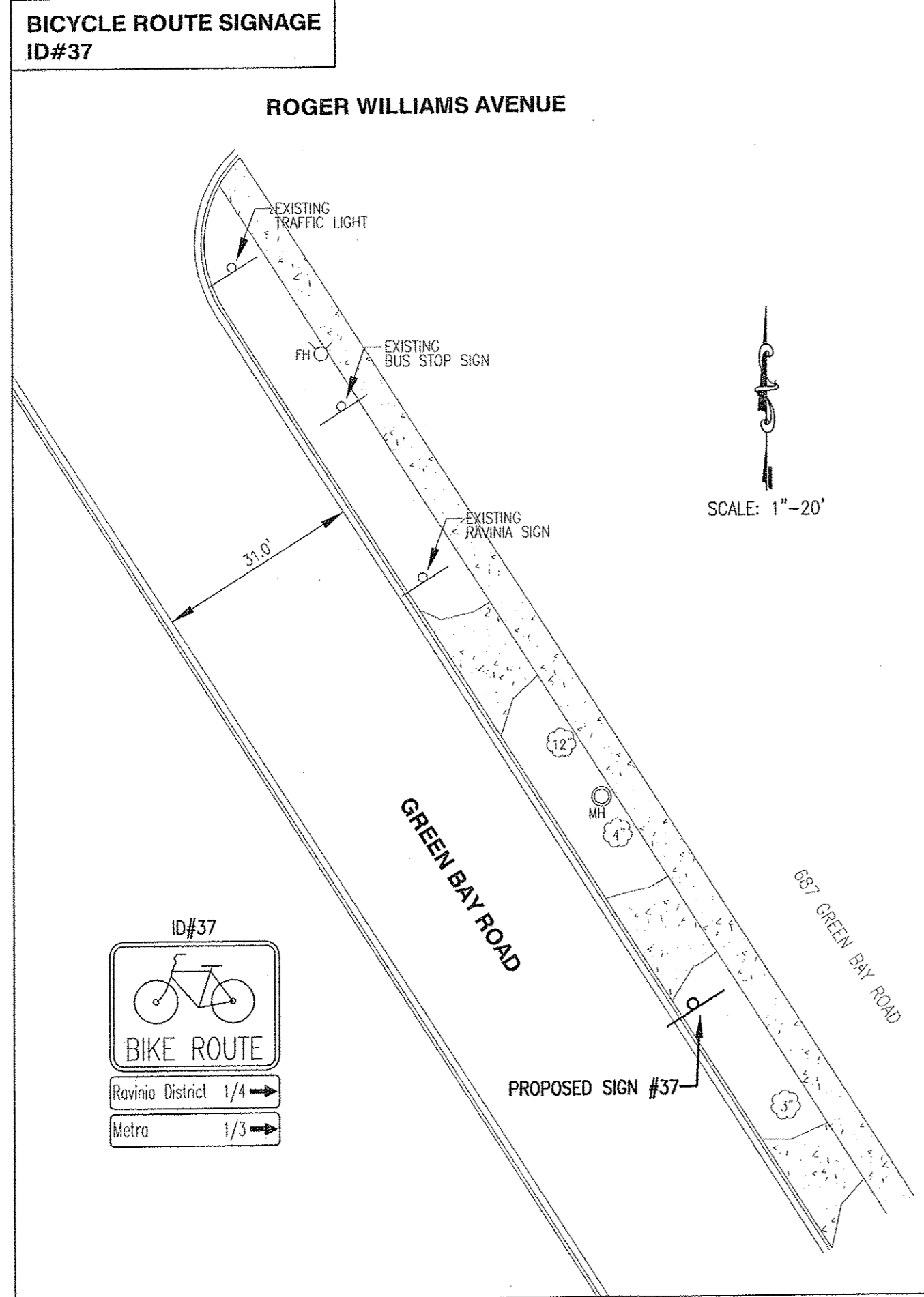
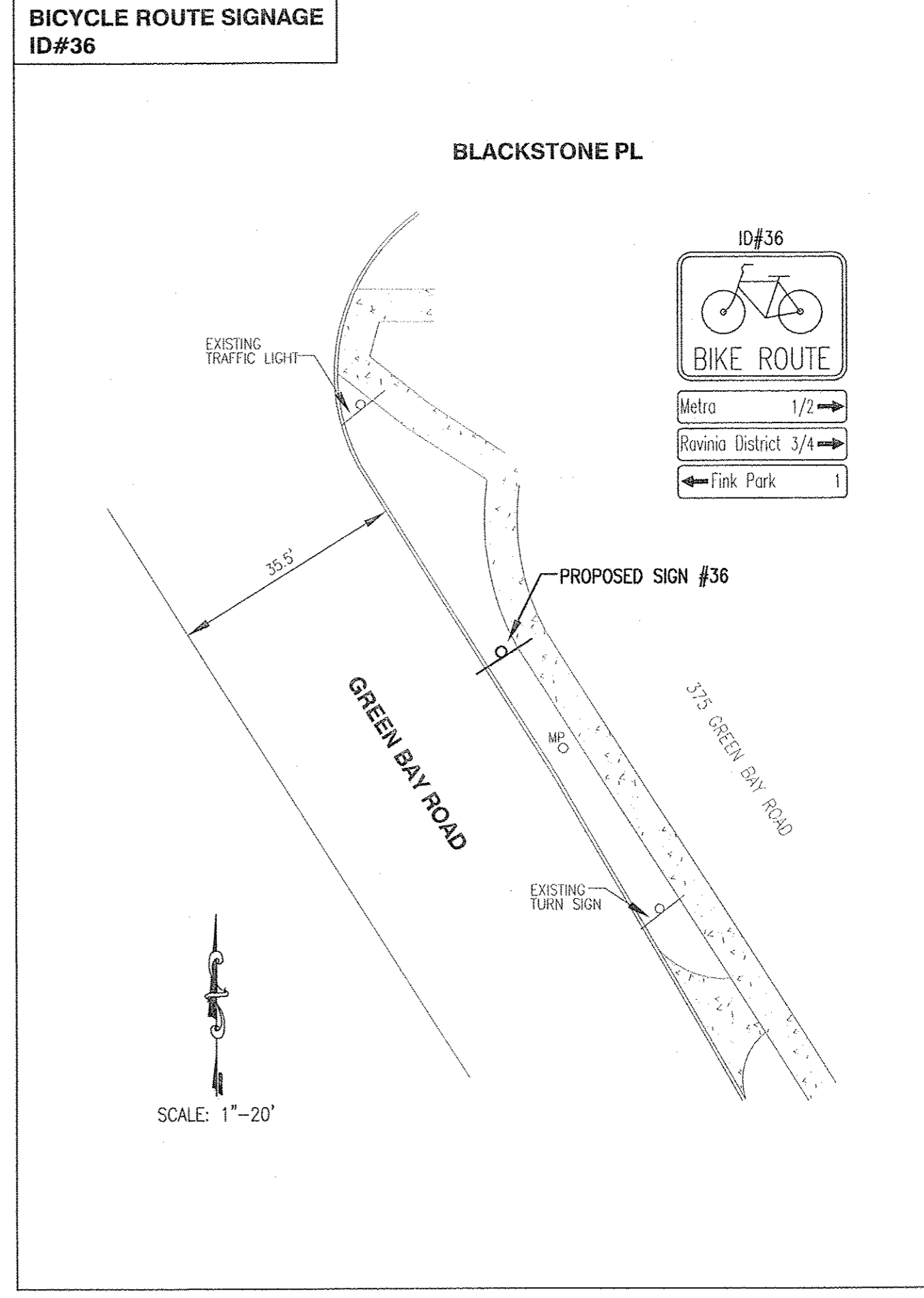
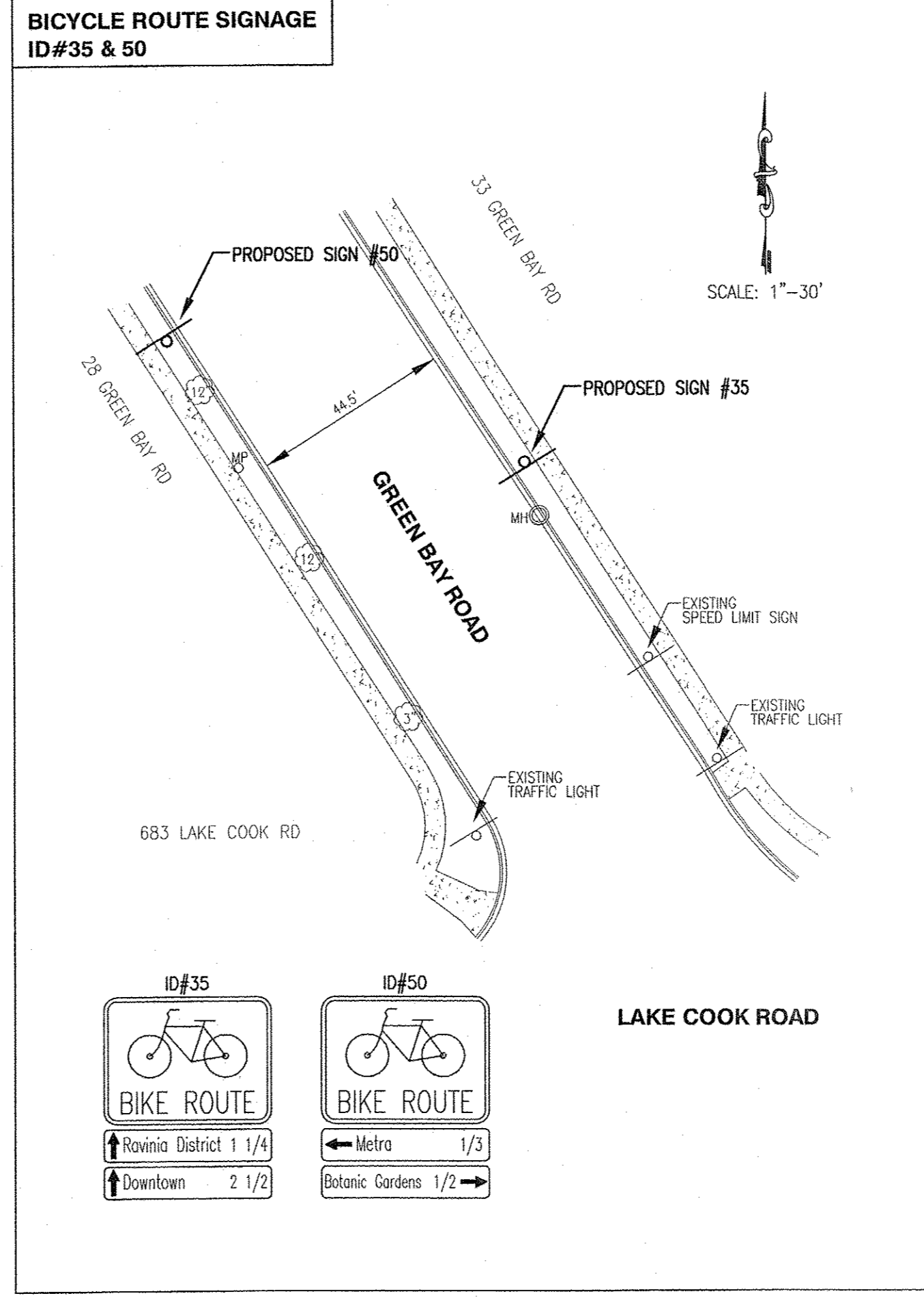
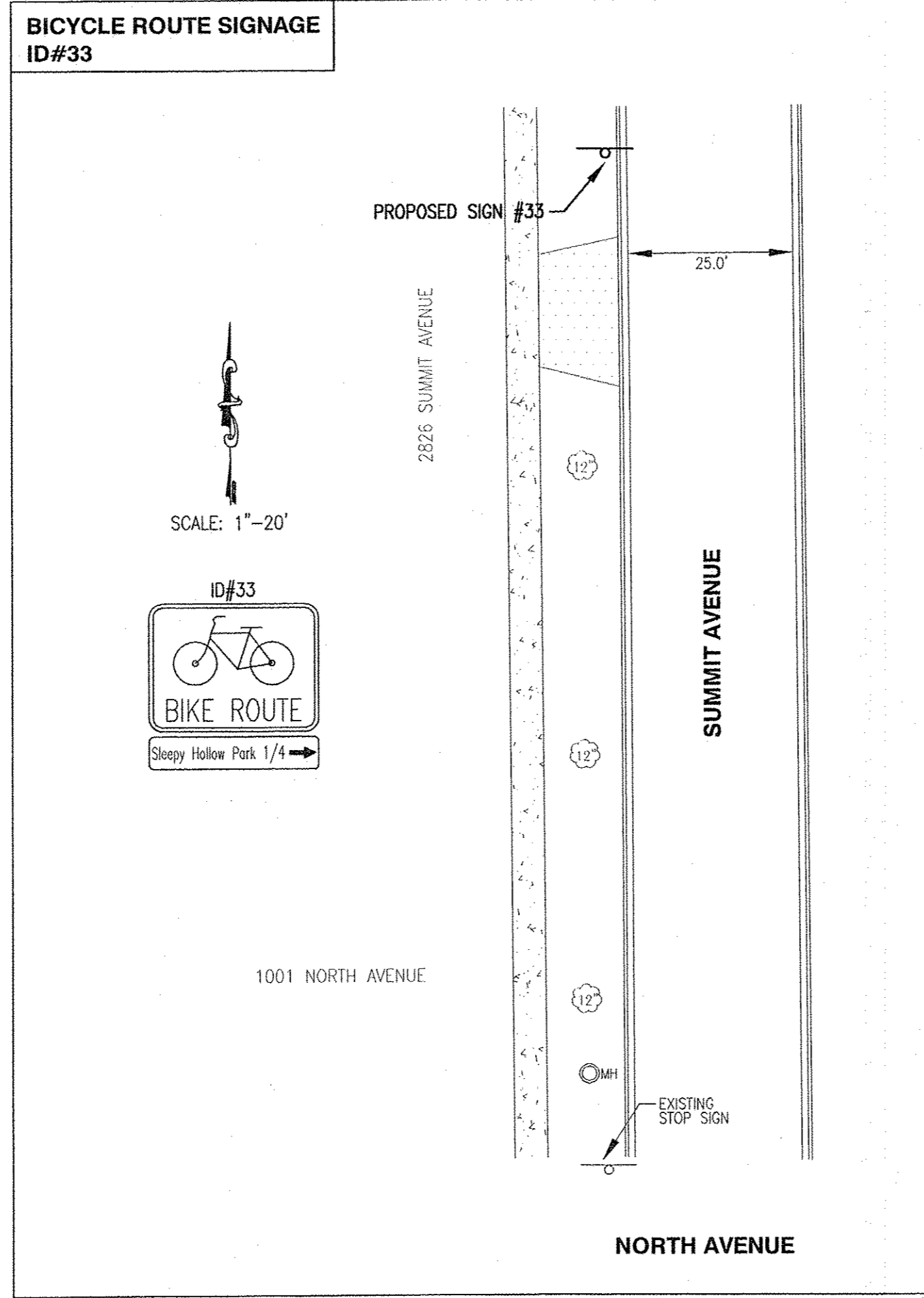
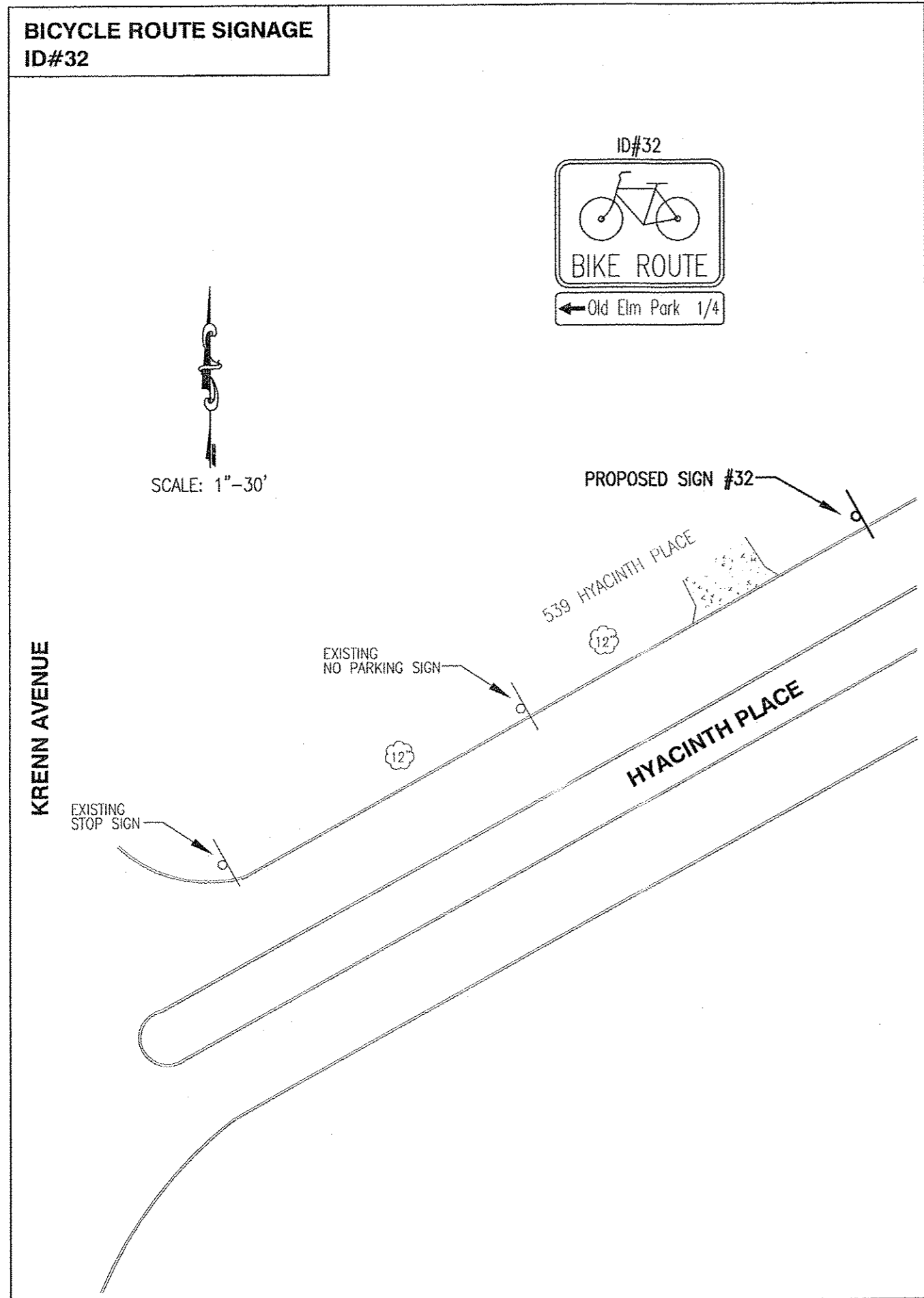


USER NAME:	DESIGNED:	REVISED:
DRAWN:	CHECKED:	REVISED:
PLOT SCALE:	DATE:	REVISED:
PLOT DATE:		

SCALE: N/A	SHEET NO. 16 OF 30 SHEETS	STA.	STA.
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SECTION 15-00124-00-BT	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 16
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

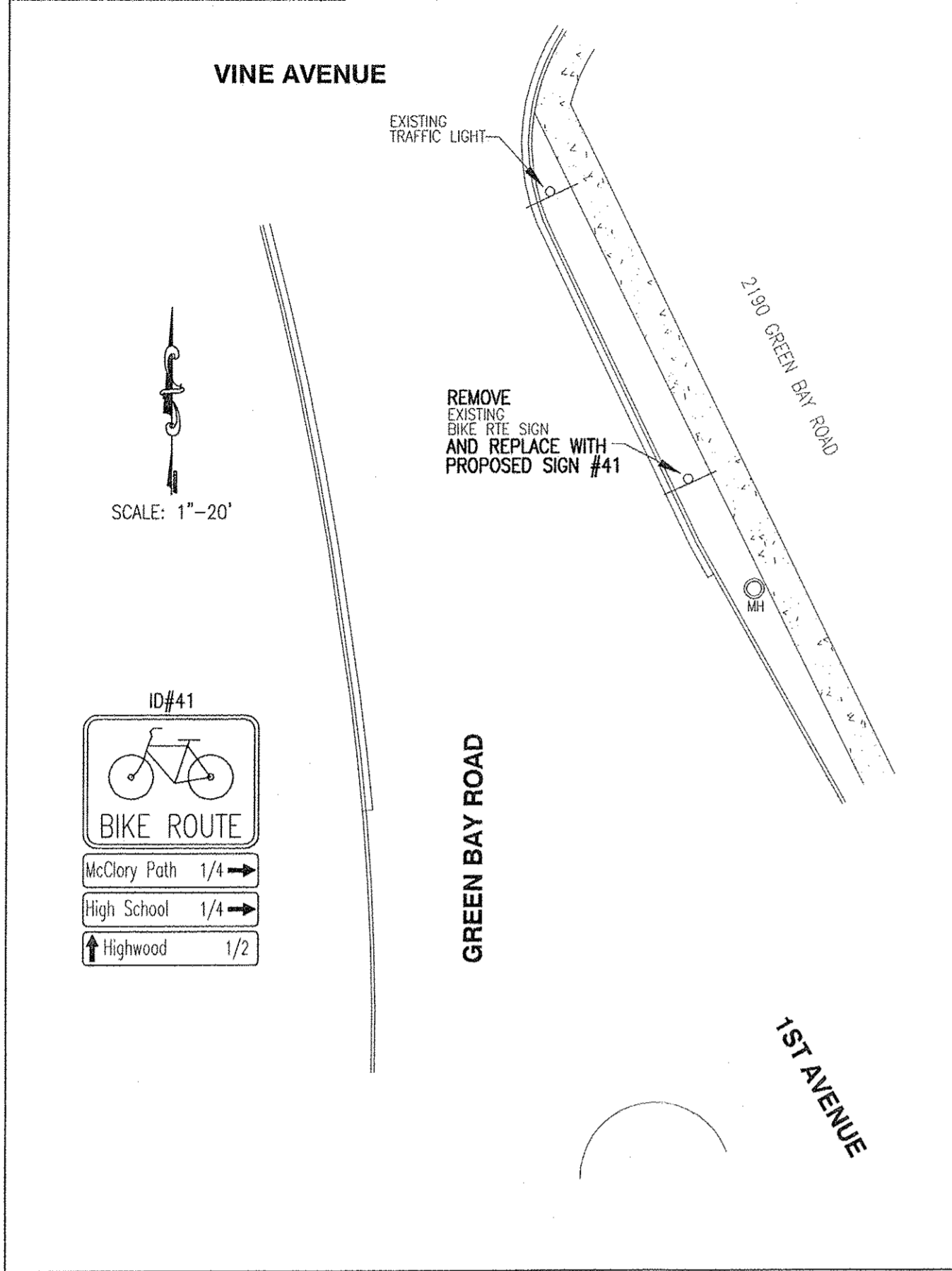




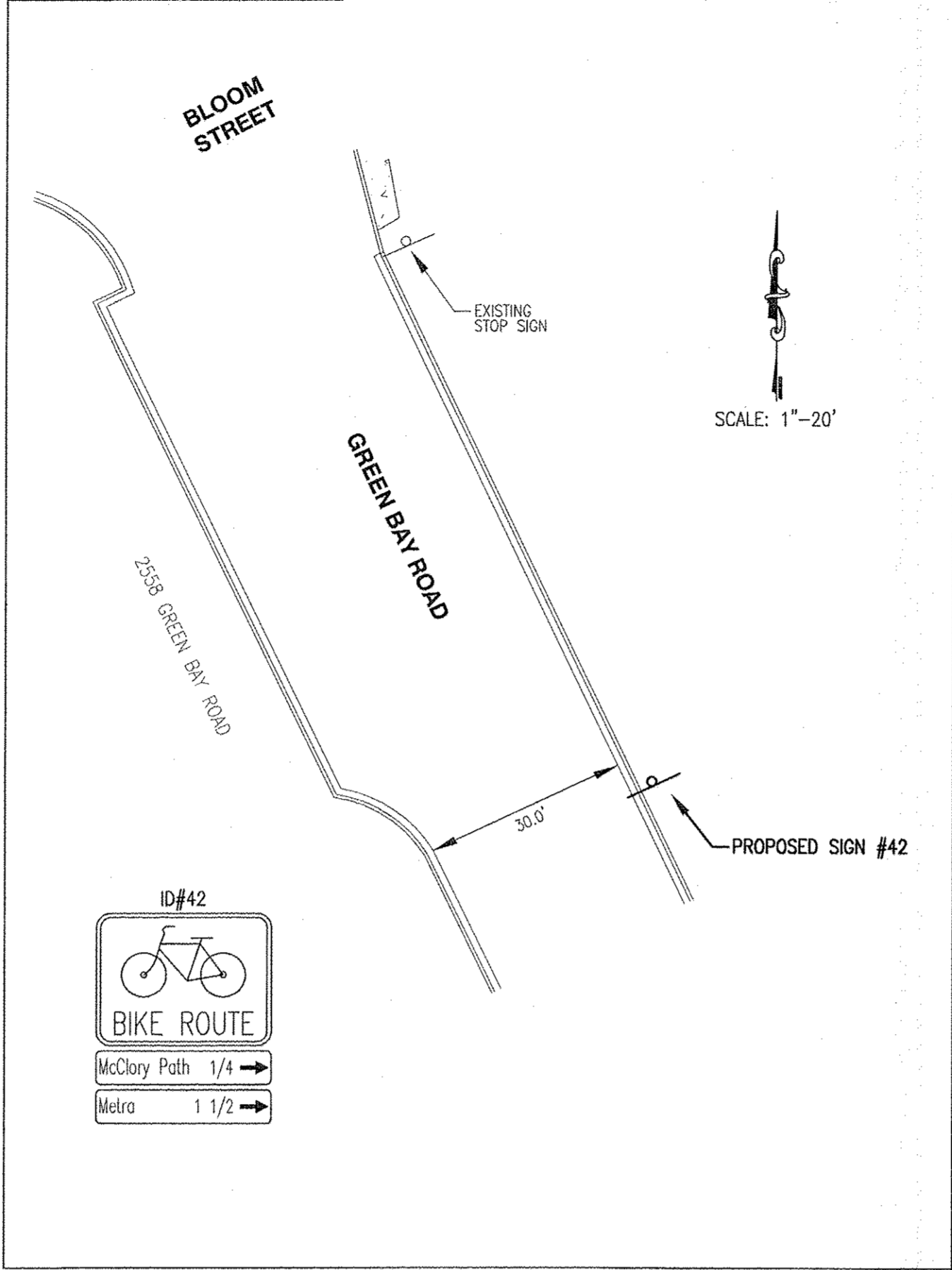
USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	DRAWN:	REVISED:
PLOT DATE:	CHECKED:	REVISED:
	DATE:	REVISED:

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	17
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

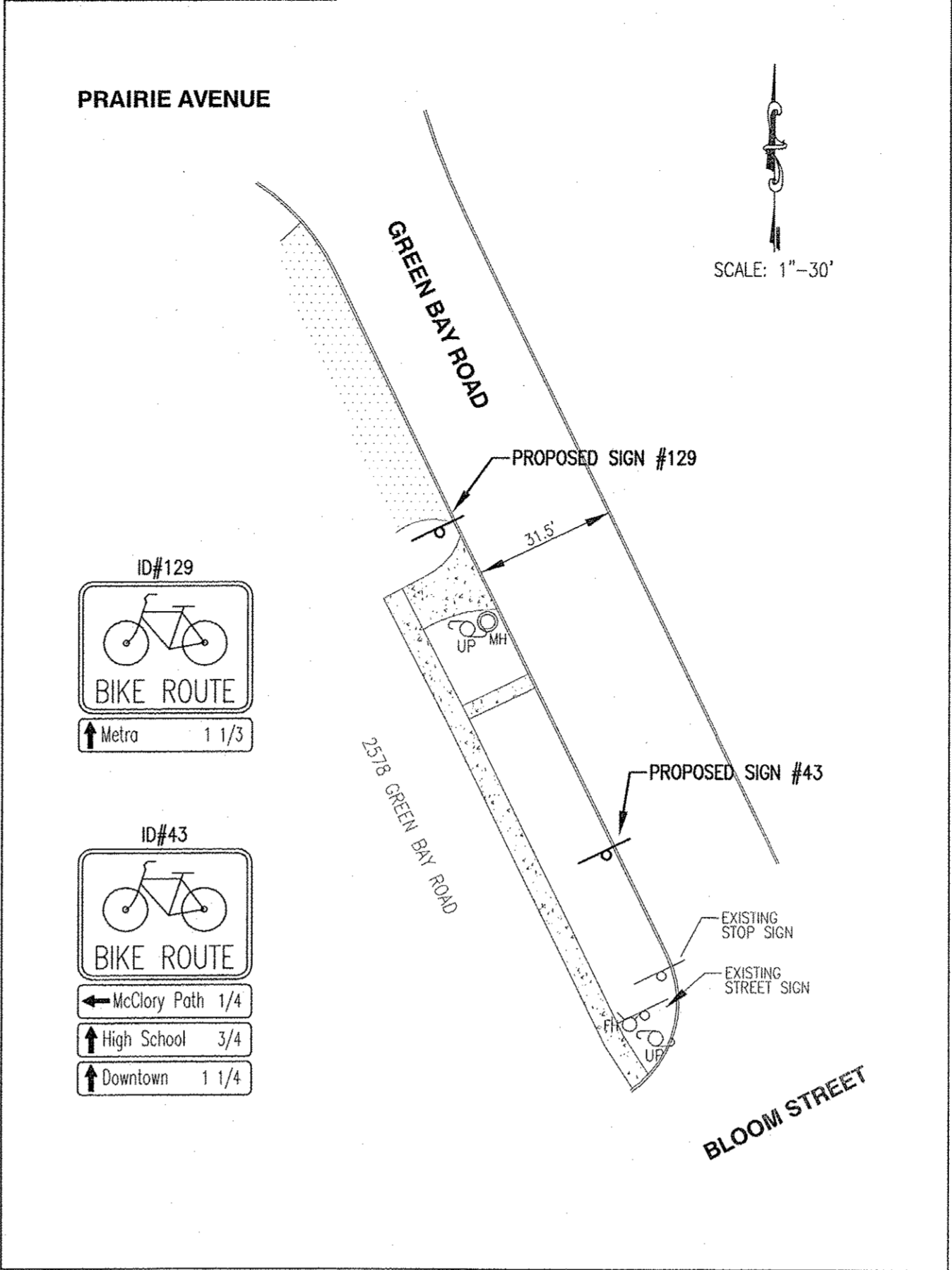
**BICYCLE ROUTE SIGNAGE  
ID#41**



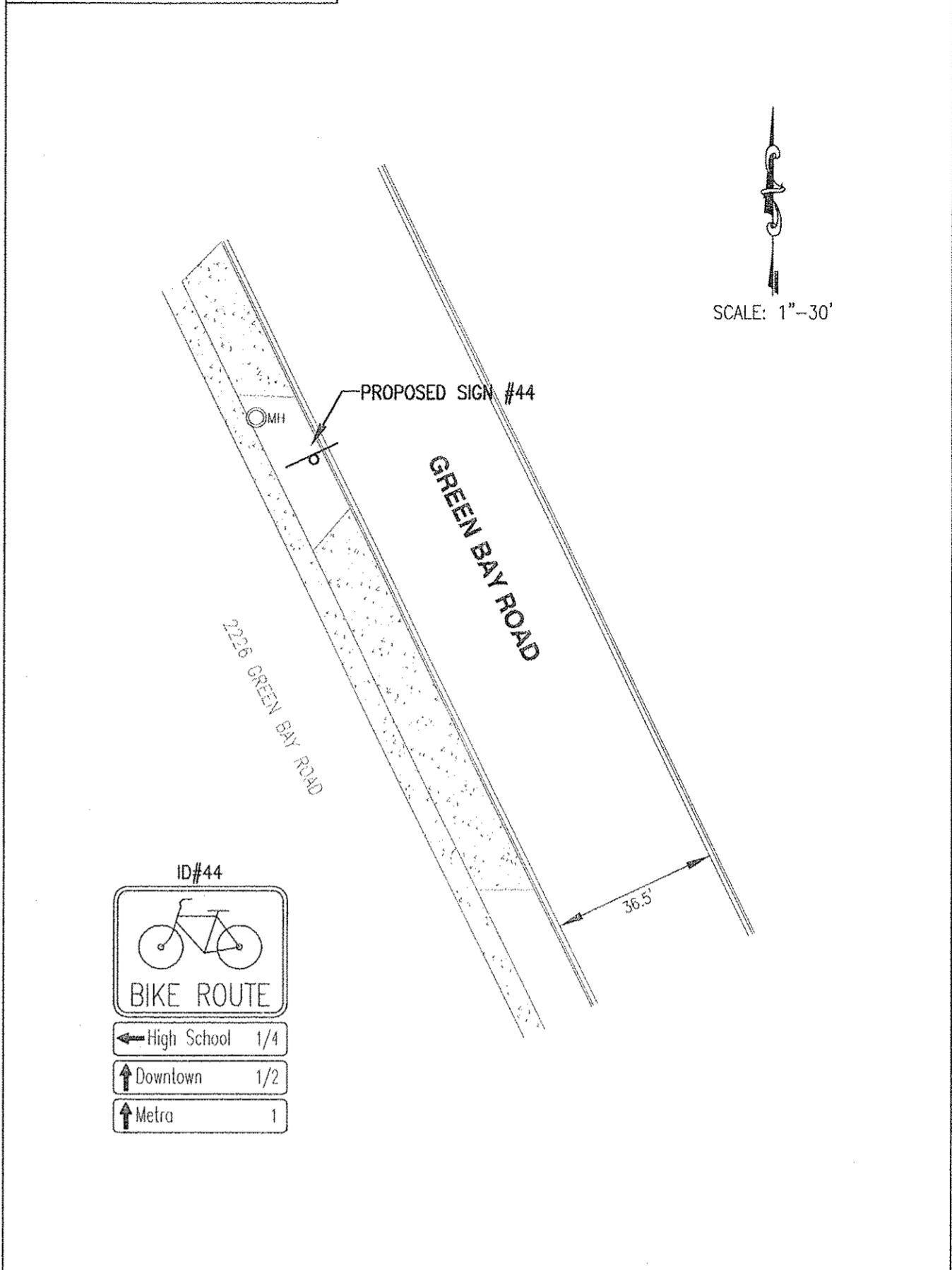
**BICYCLE ROUTE SIGNAGE  
ID#42**



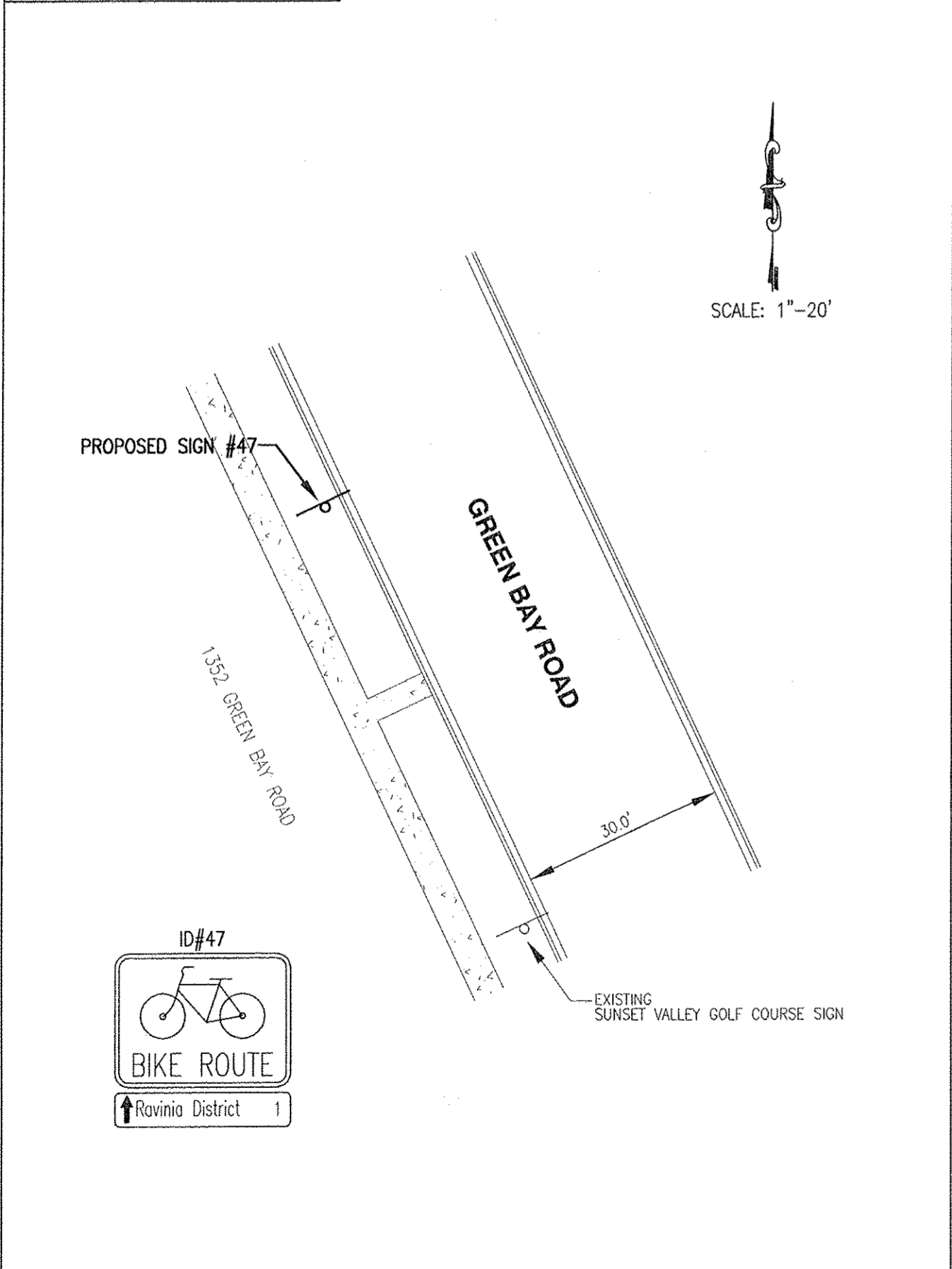
**BICYCLE ROUTE SIGNAGE  
ID#43-129**



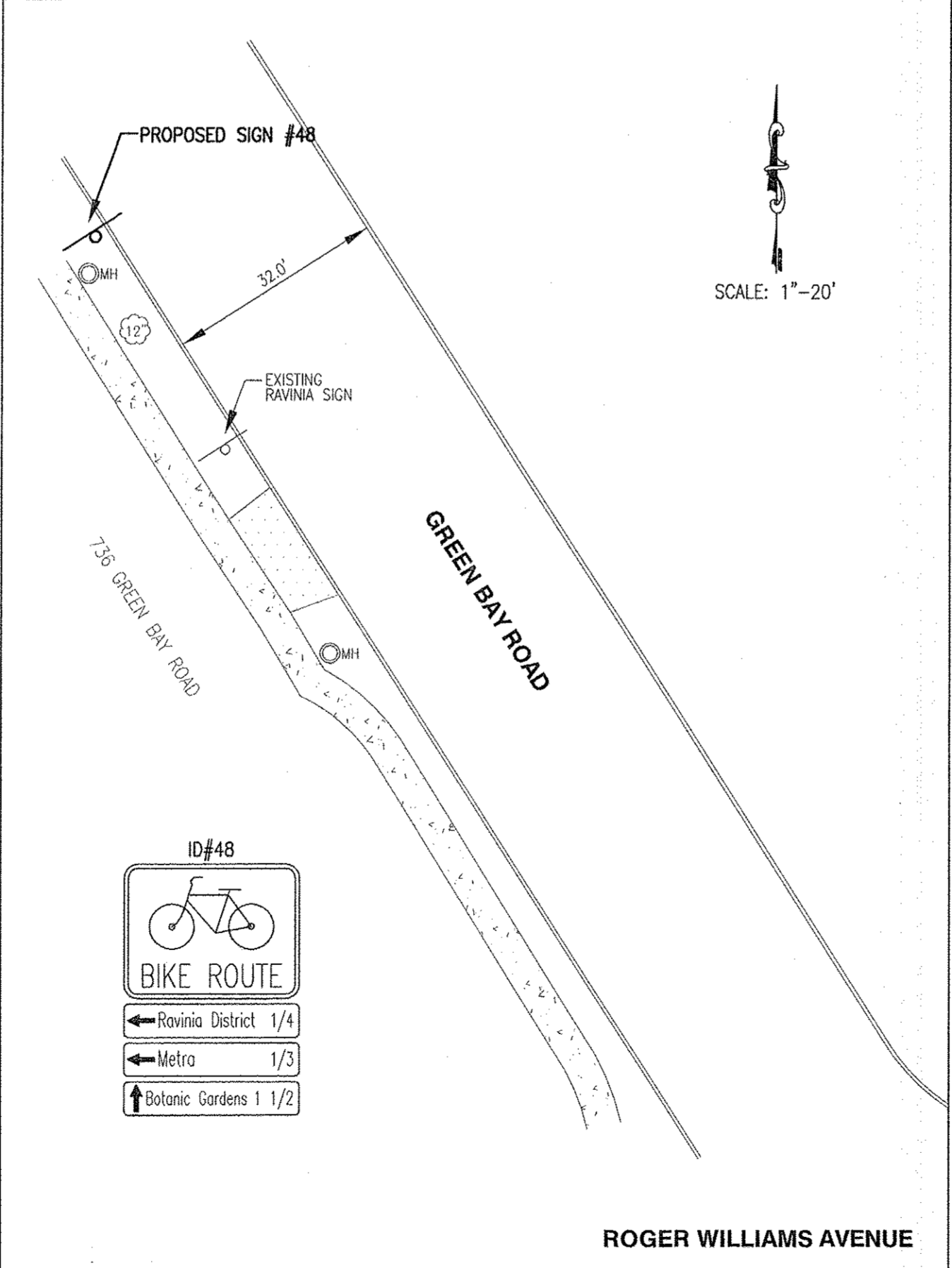
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ID#44**



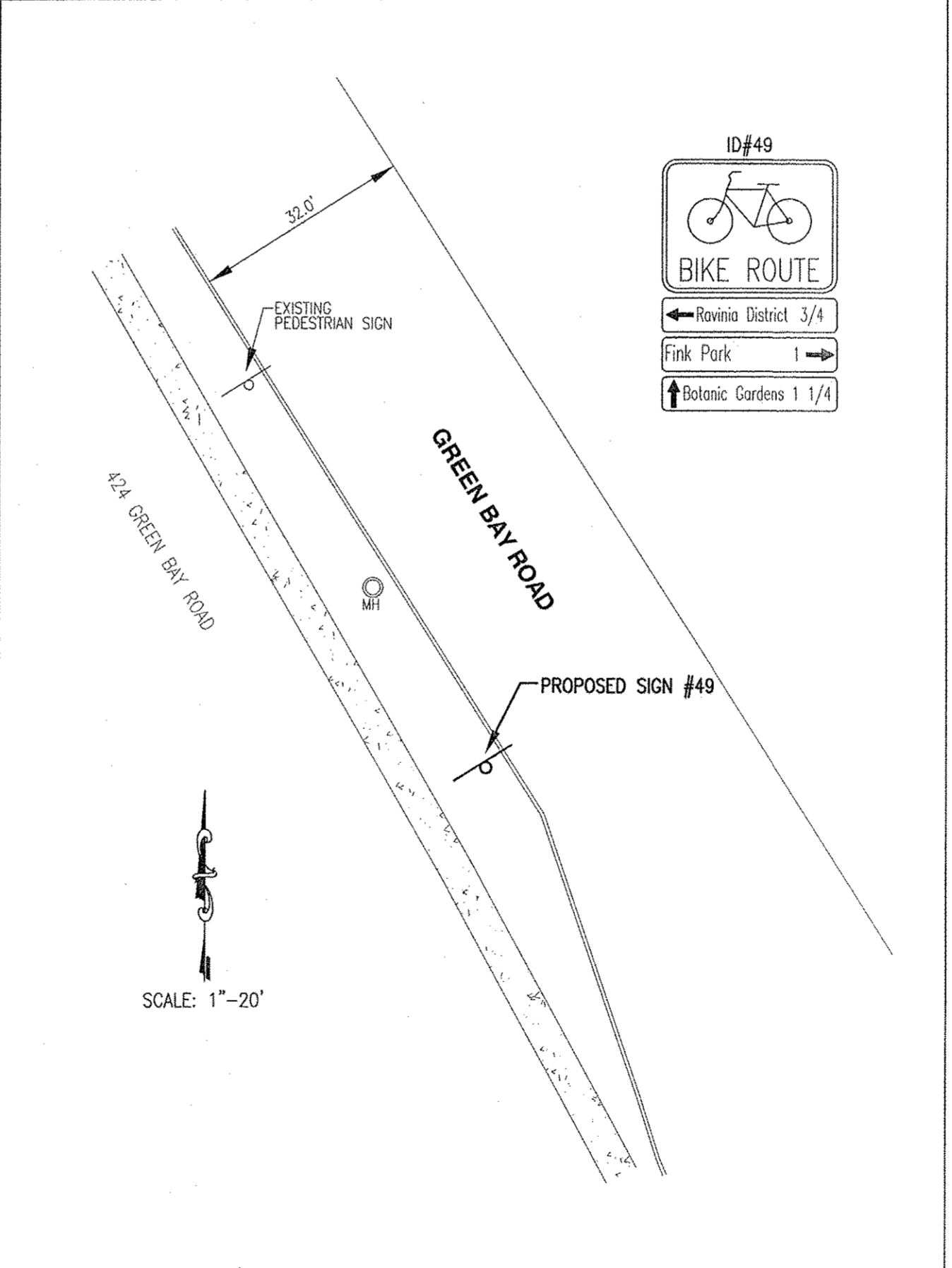
**BICYCLE ROUTE SIGNAGE  
ID#47**



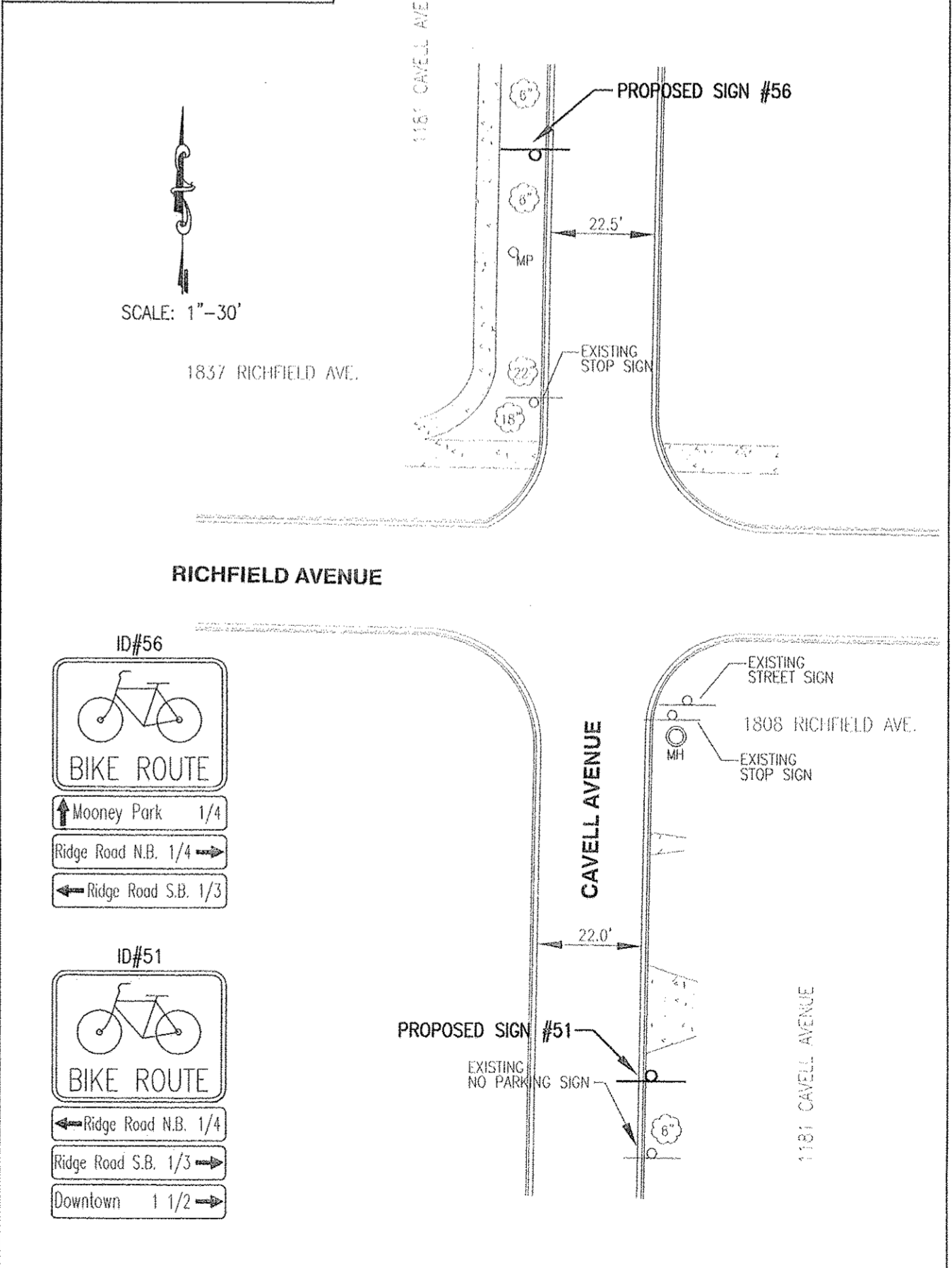
**BICYCLE ROUTE SIGNAGE  
ID#48**



**BICYCLE ROUTE SIGNAGE  
ID#49**

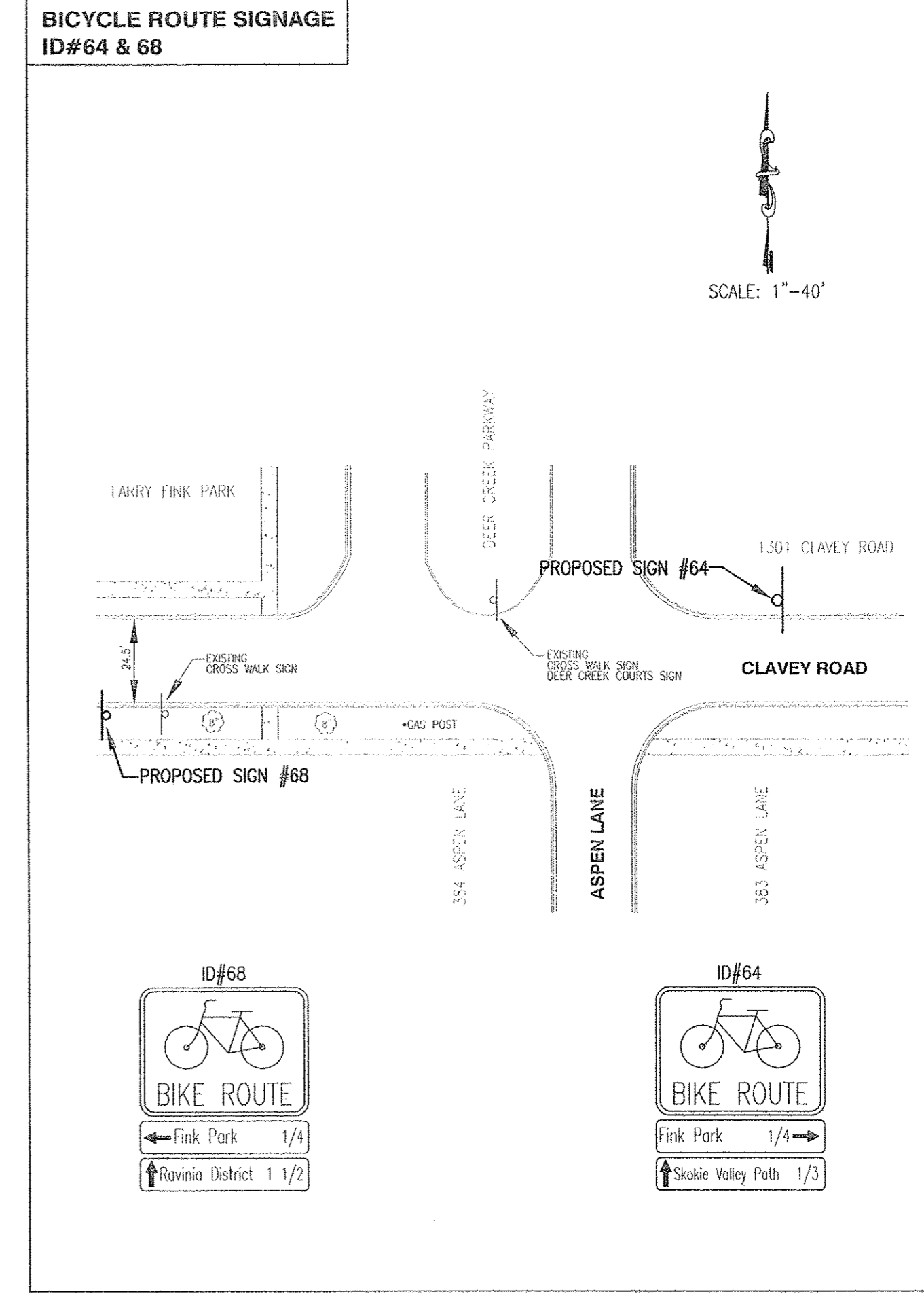
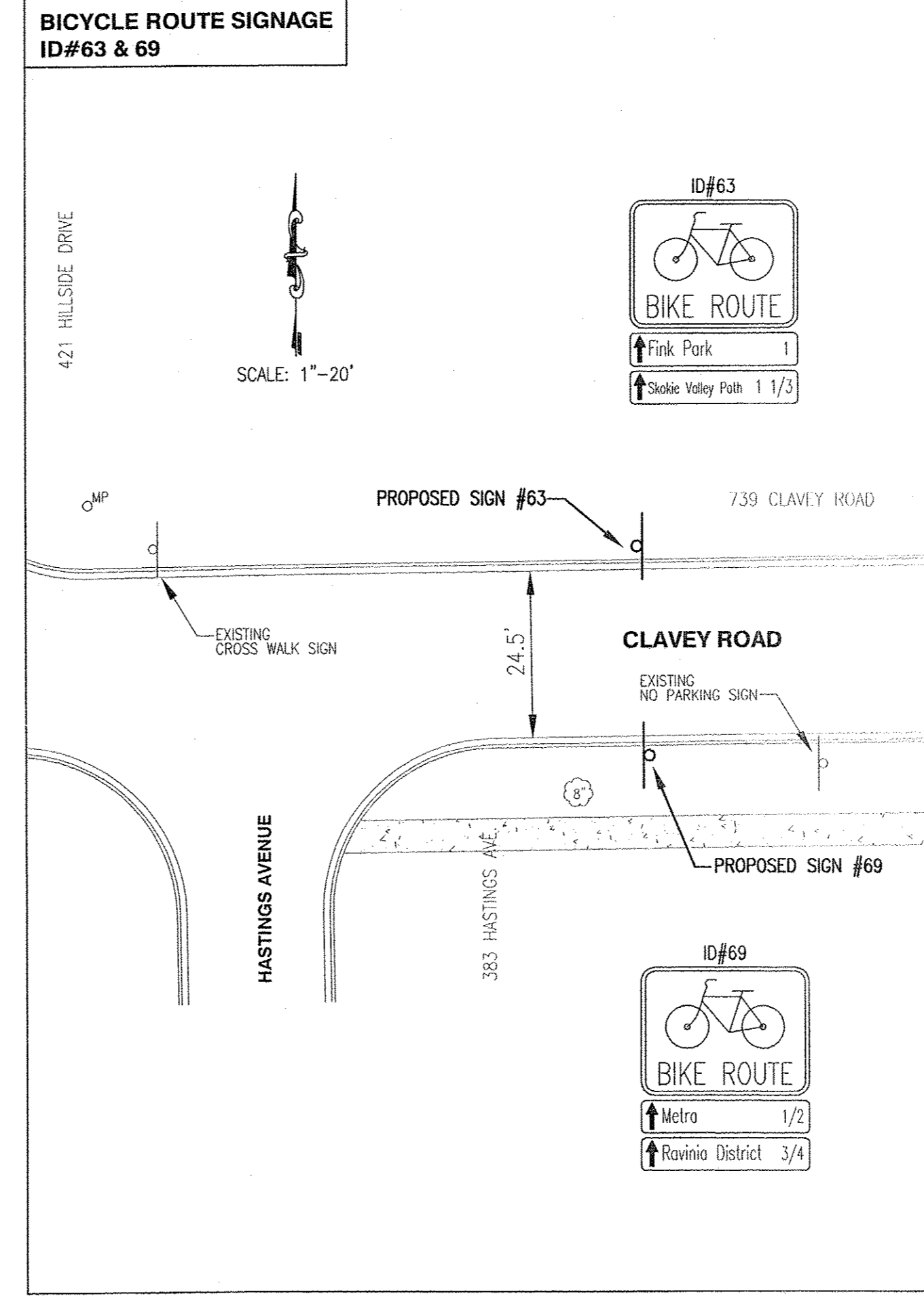
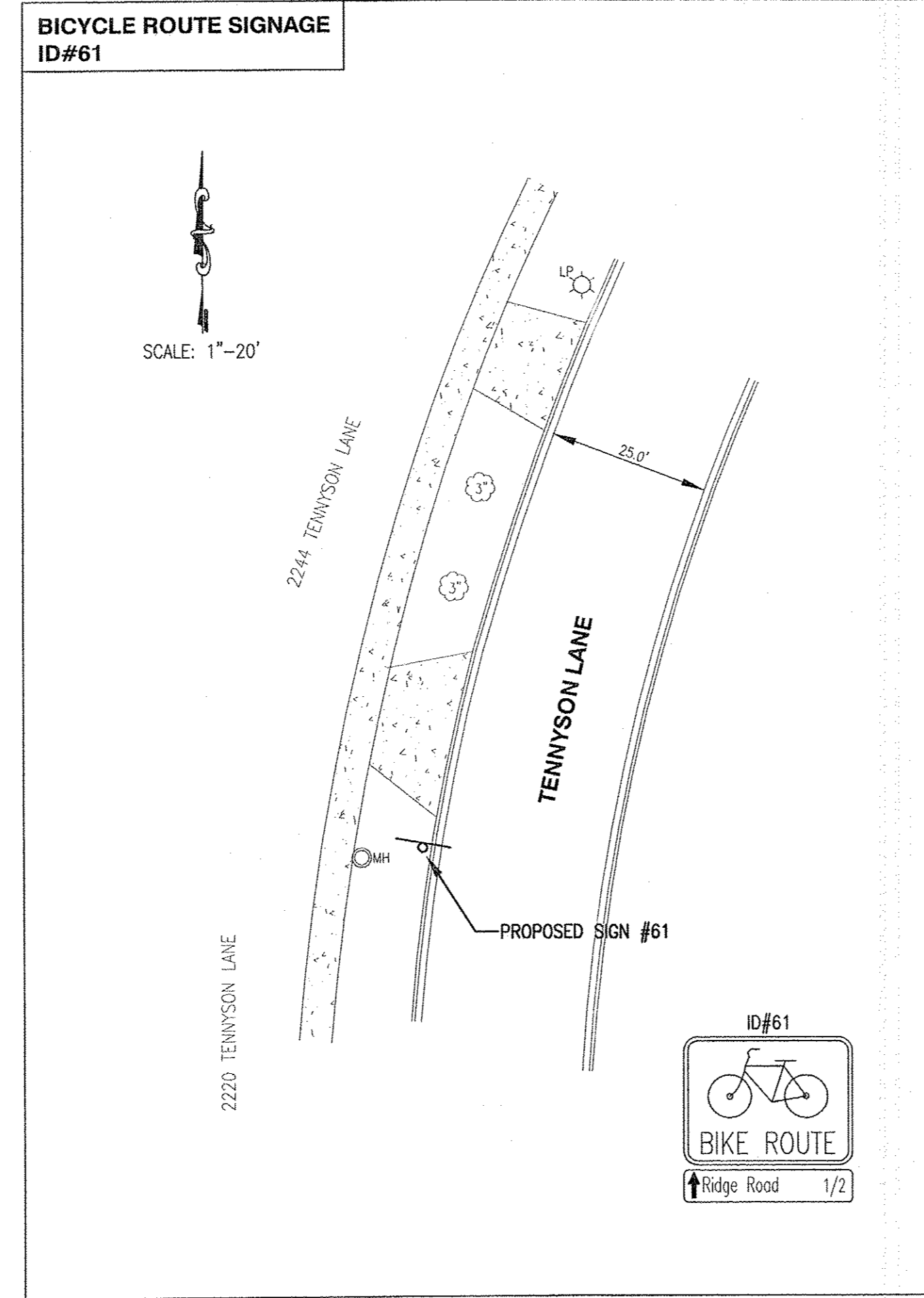
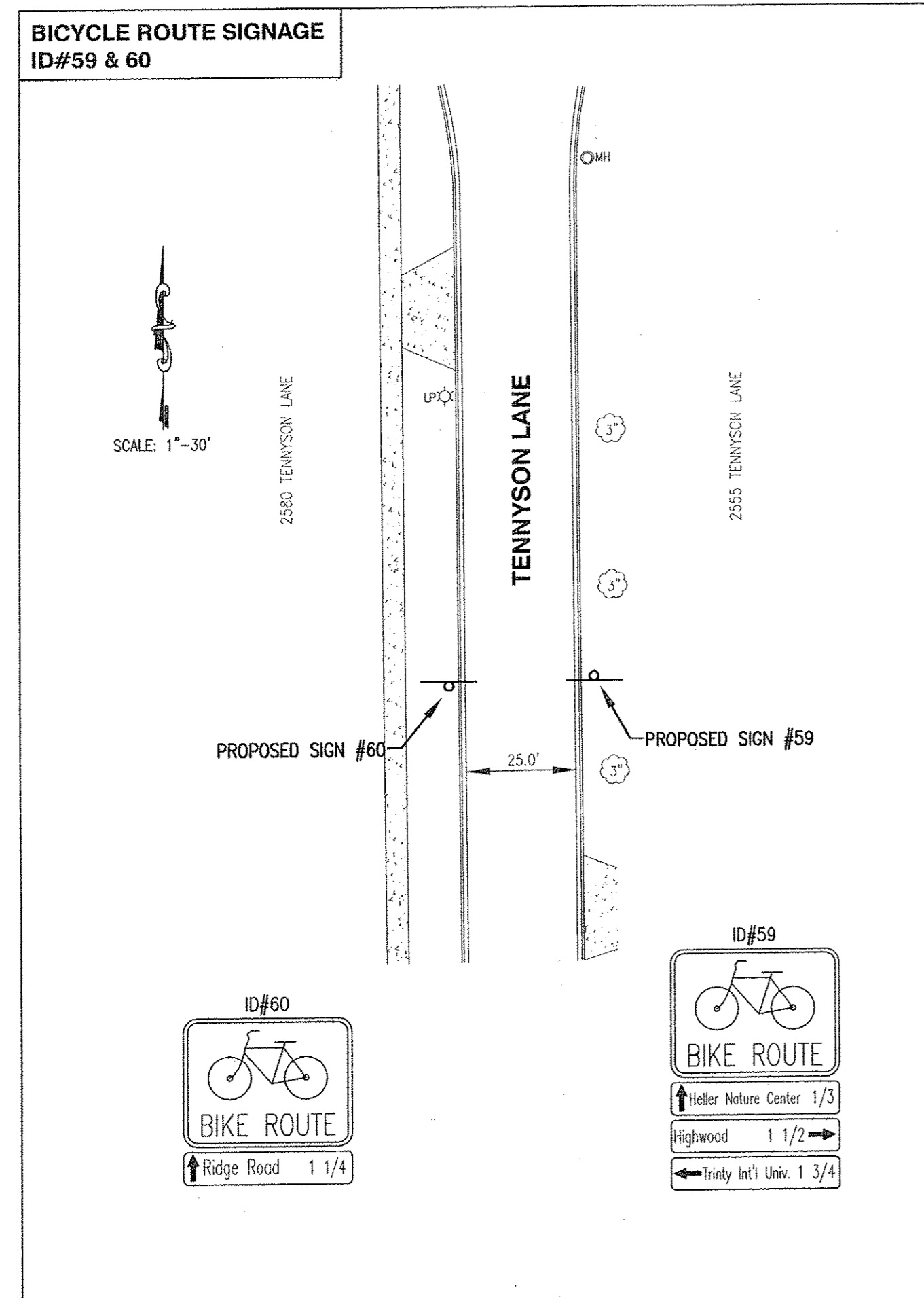
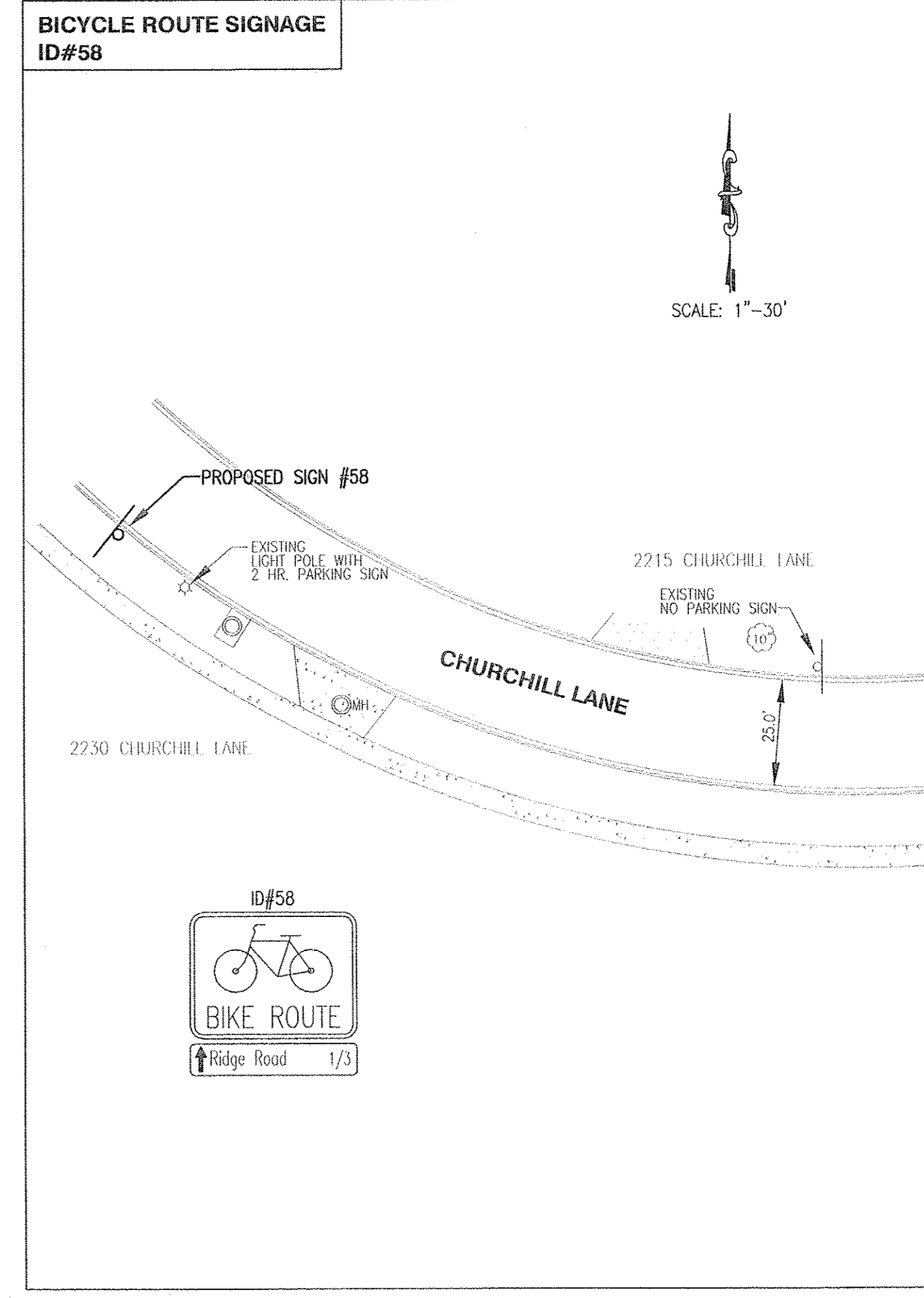
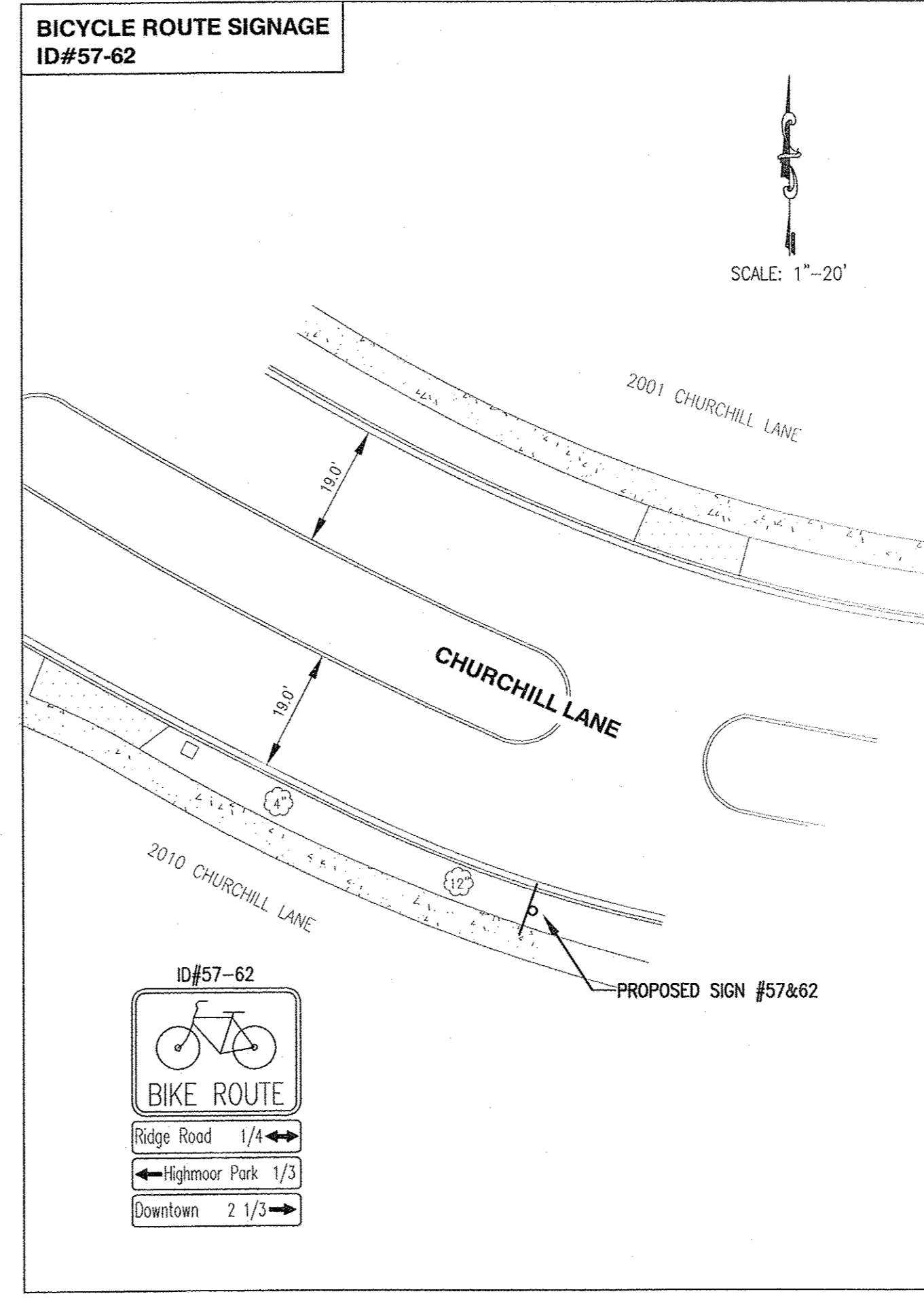
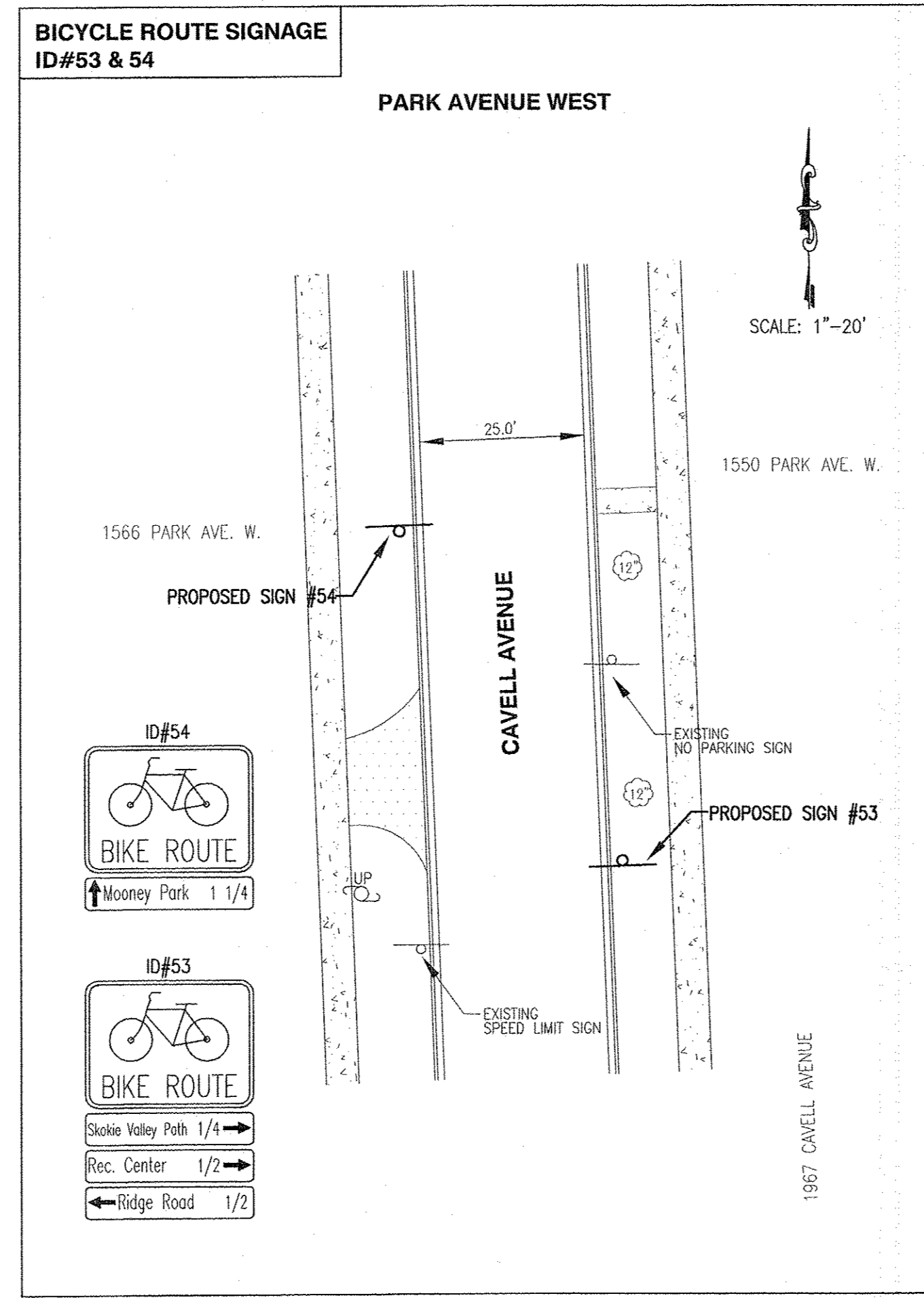
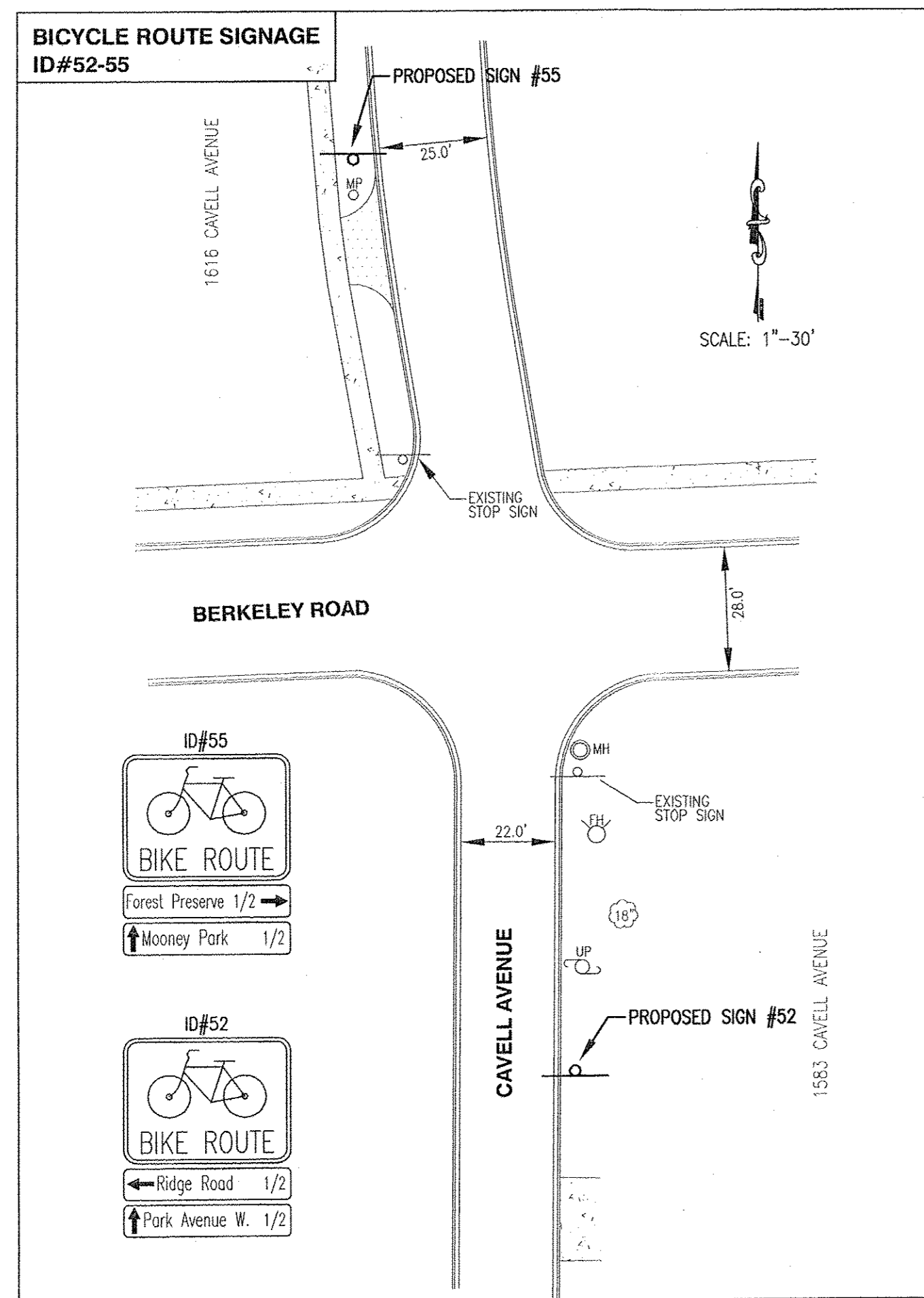


**BICYCLE ROUTE SIGNAGE  
ID#51-56**



USER NAME:	DESIGNED:	REVISED:
DRAWN:	REVISOR:	
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	18
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

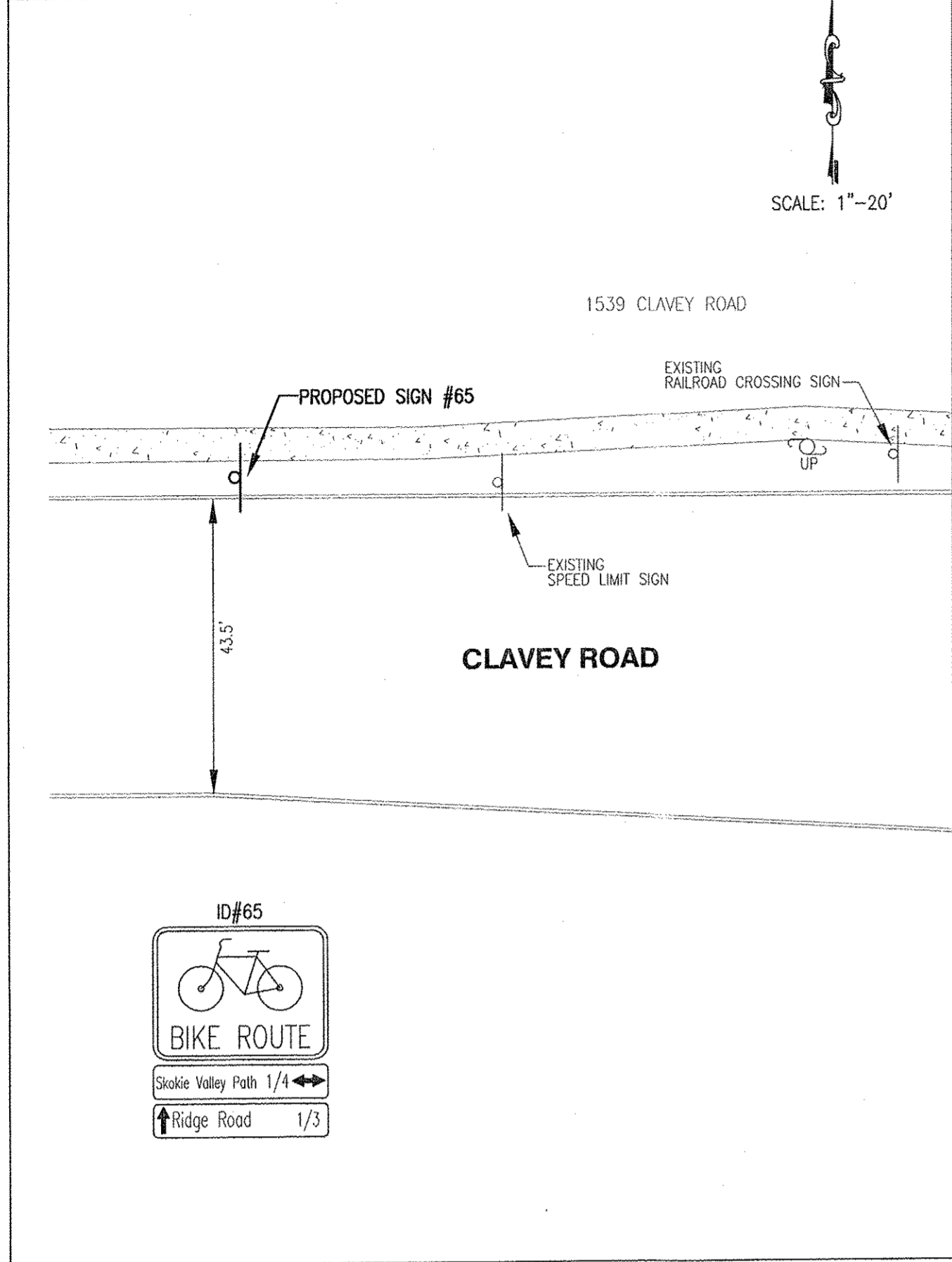


USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	DRAWN:	REVISED:
PLOT DATE:	CHECKED:	REVISED:
	DATE:	REVISED:

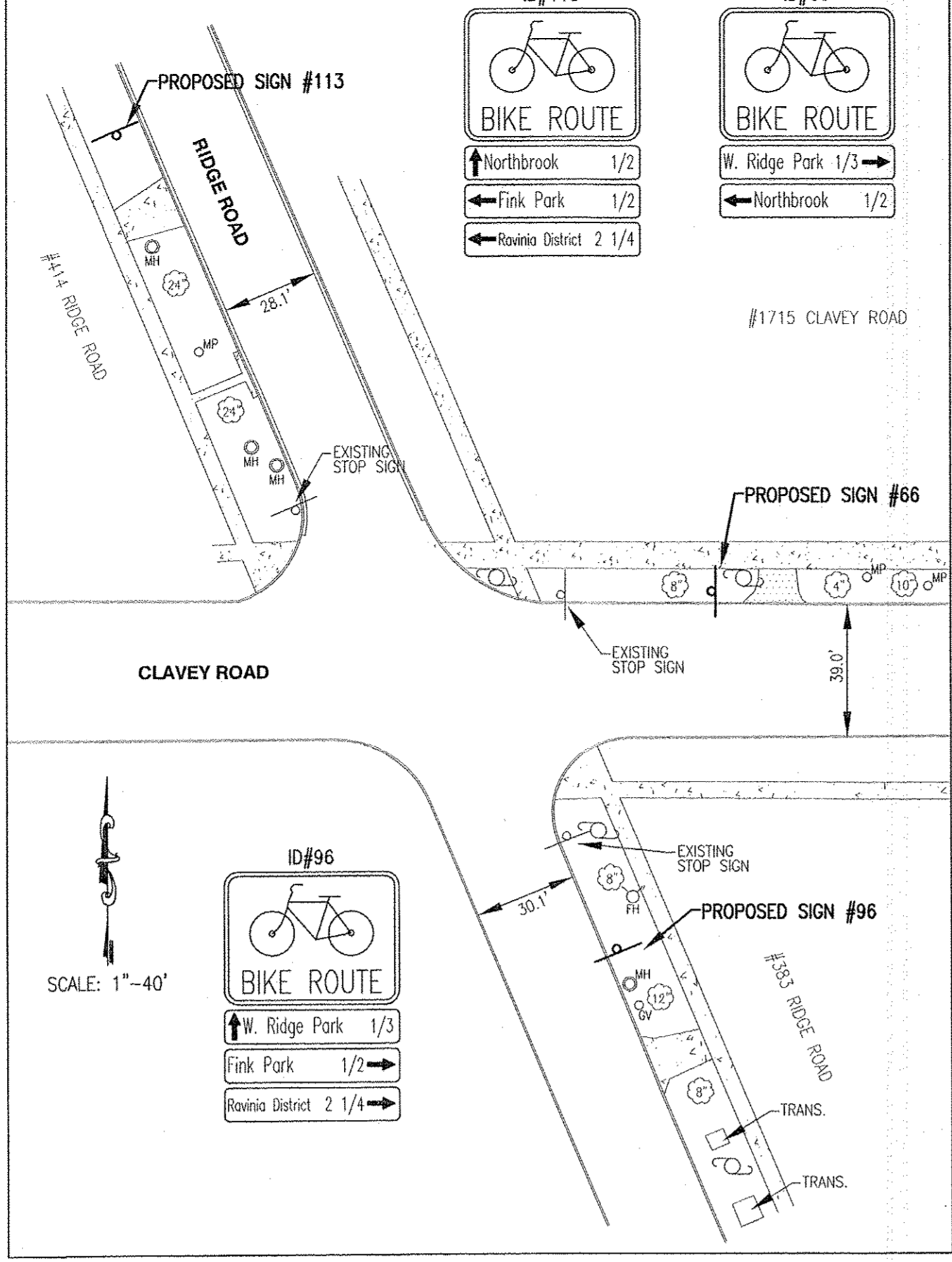
SCALE: N/A	SHEET NO. 19 OF 30 SHEETS	STA.	STA.
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SECTION 15-00124-00-BT	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 19
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

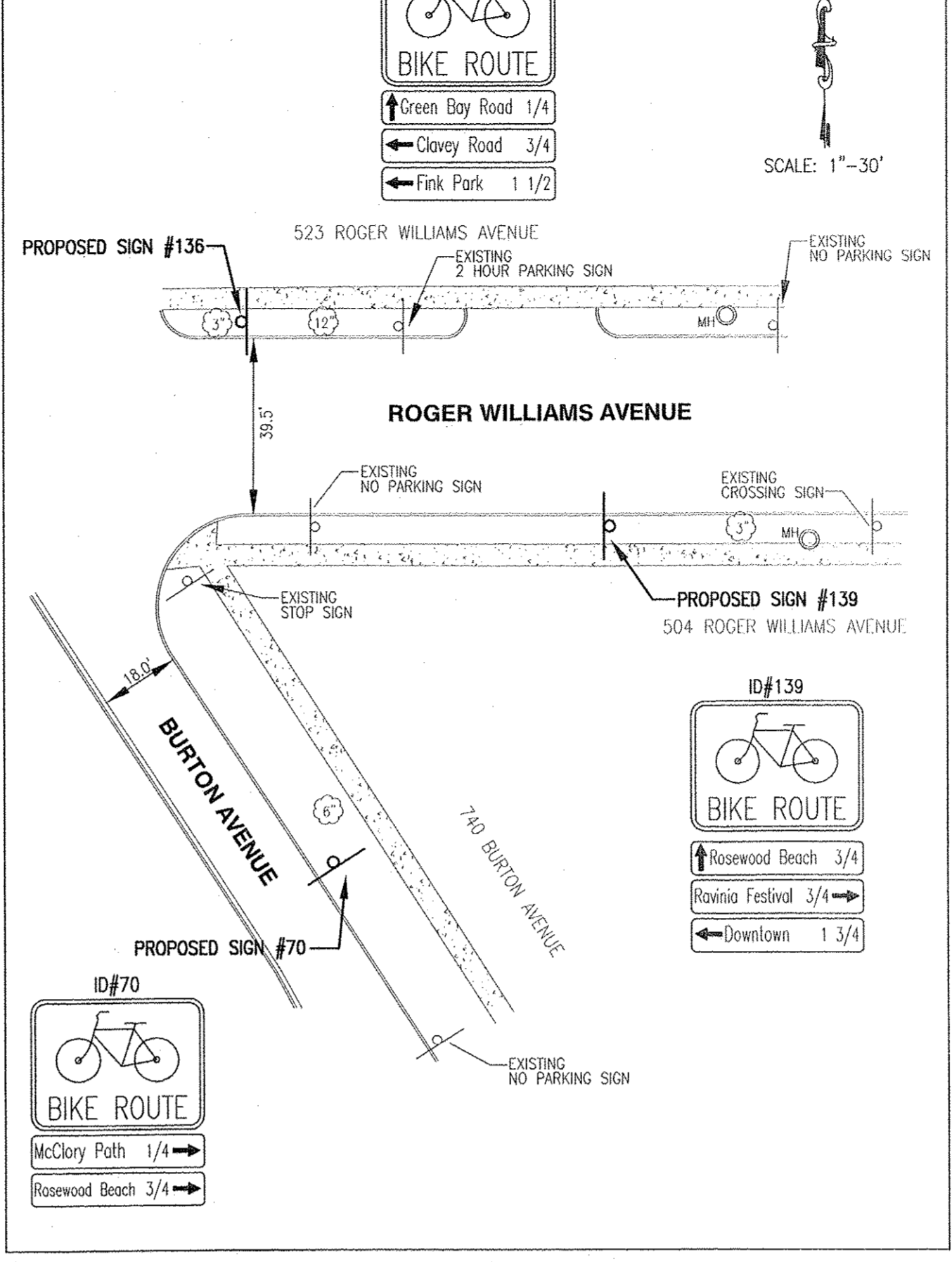
**BICYCLE ROUTE SIGNAGE  
ID#65**



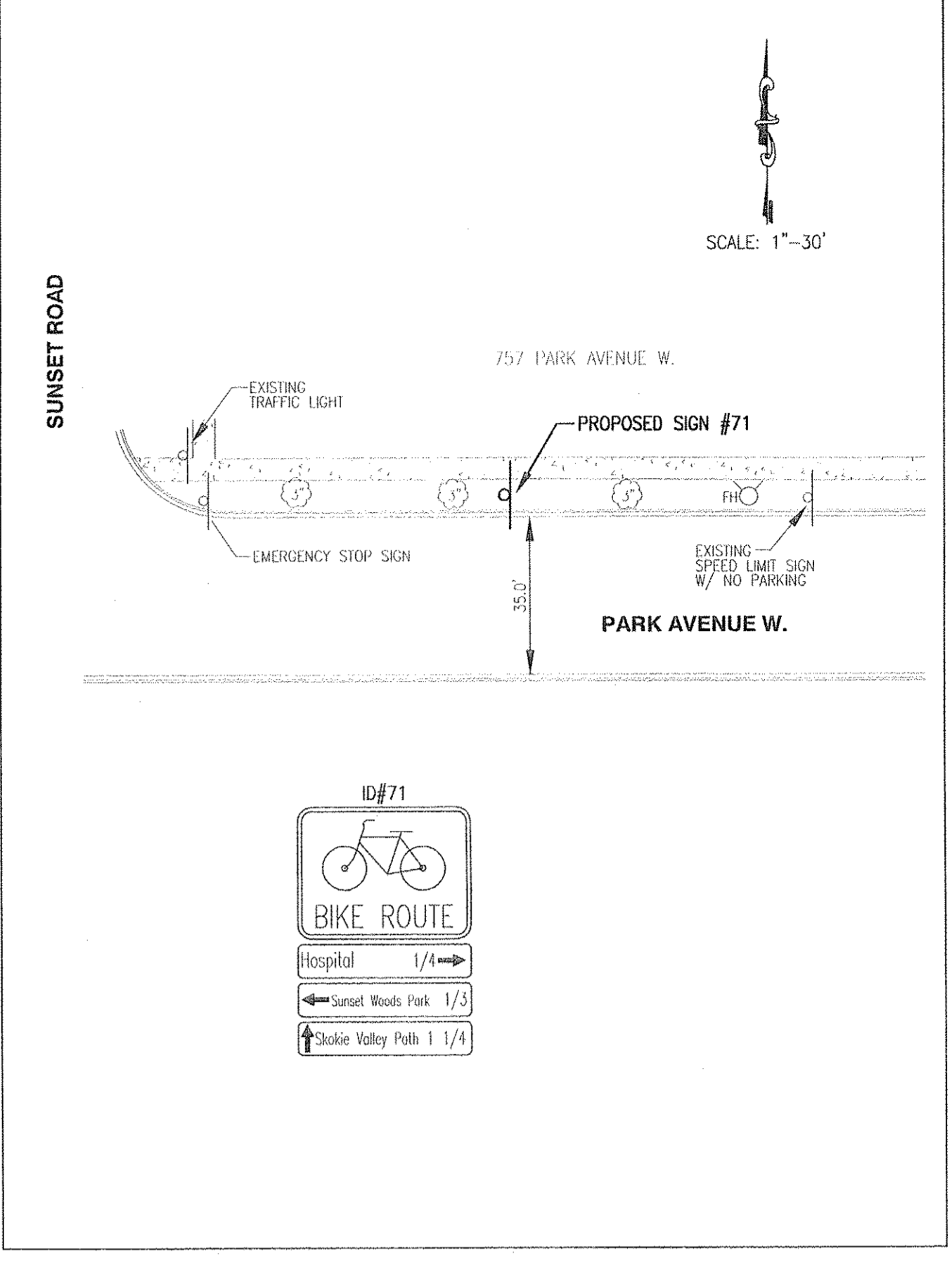
**BICYCLE ROUTE SIGNAGE  
ID#66, 96 & 113**



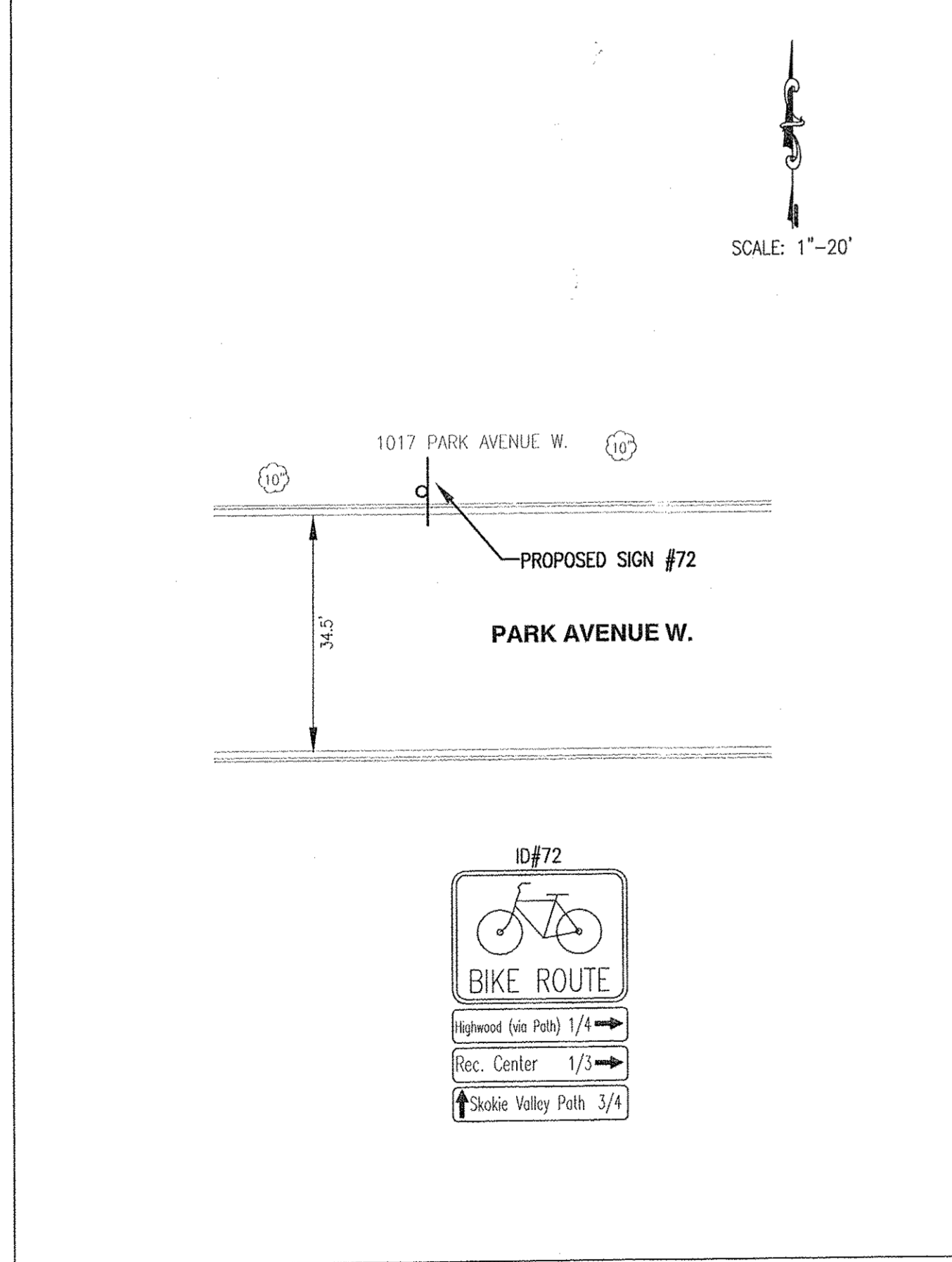
**BICYCLE ROUTE SIGNAGE  
ID#70, 136 & 139**



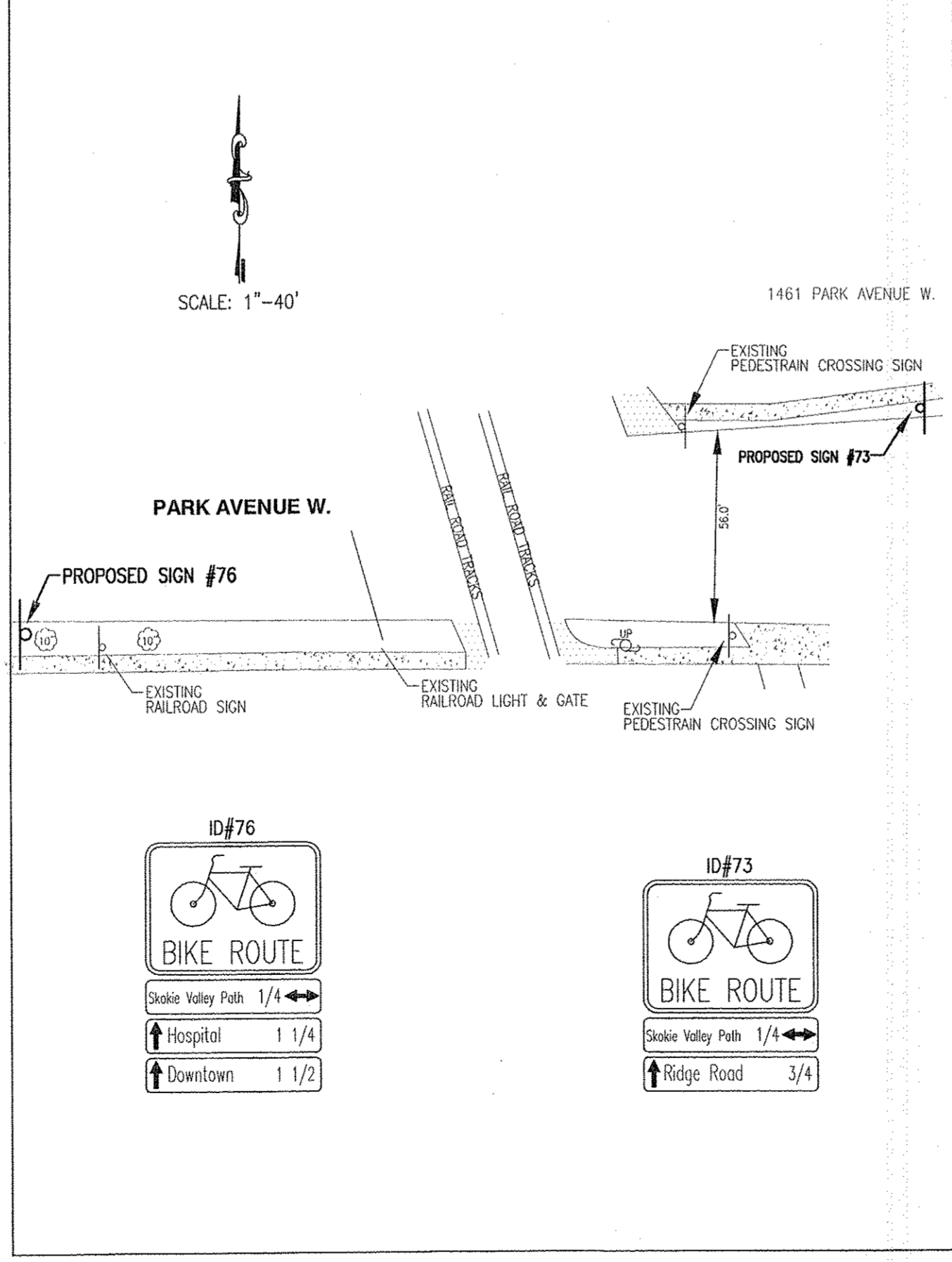
**BICYCLE ROUTE SIGNAGE  
ID#71**



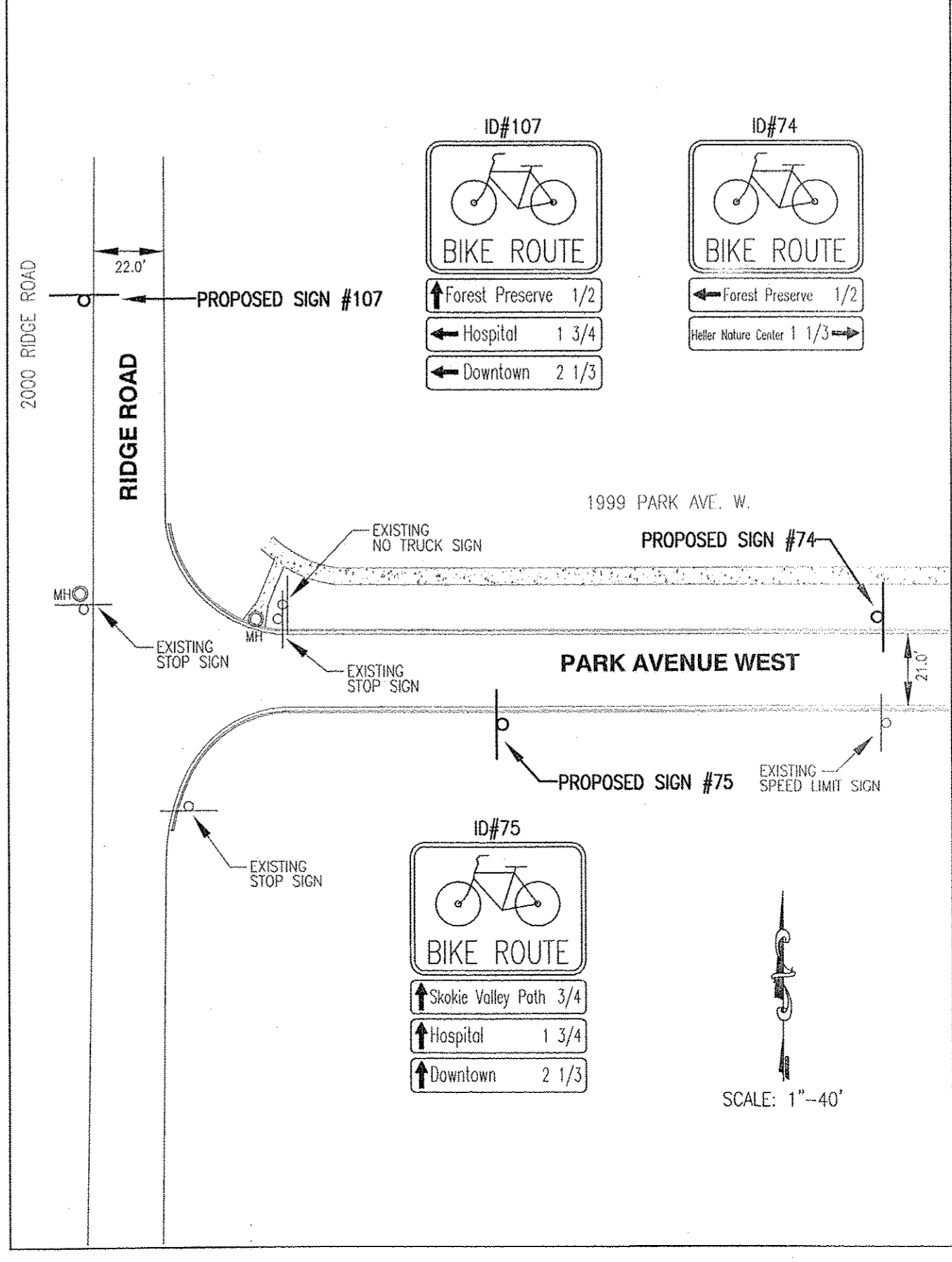
**BICYCLE ROUTE SIGNAGE  
ID#72**



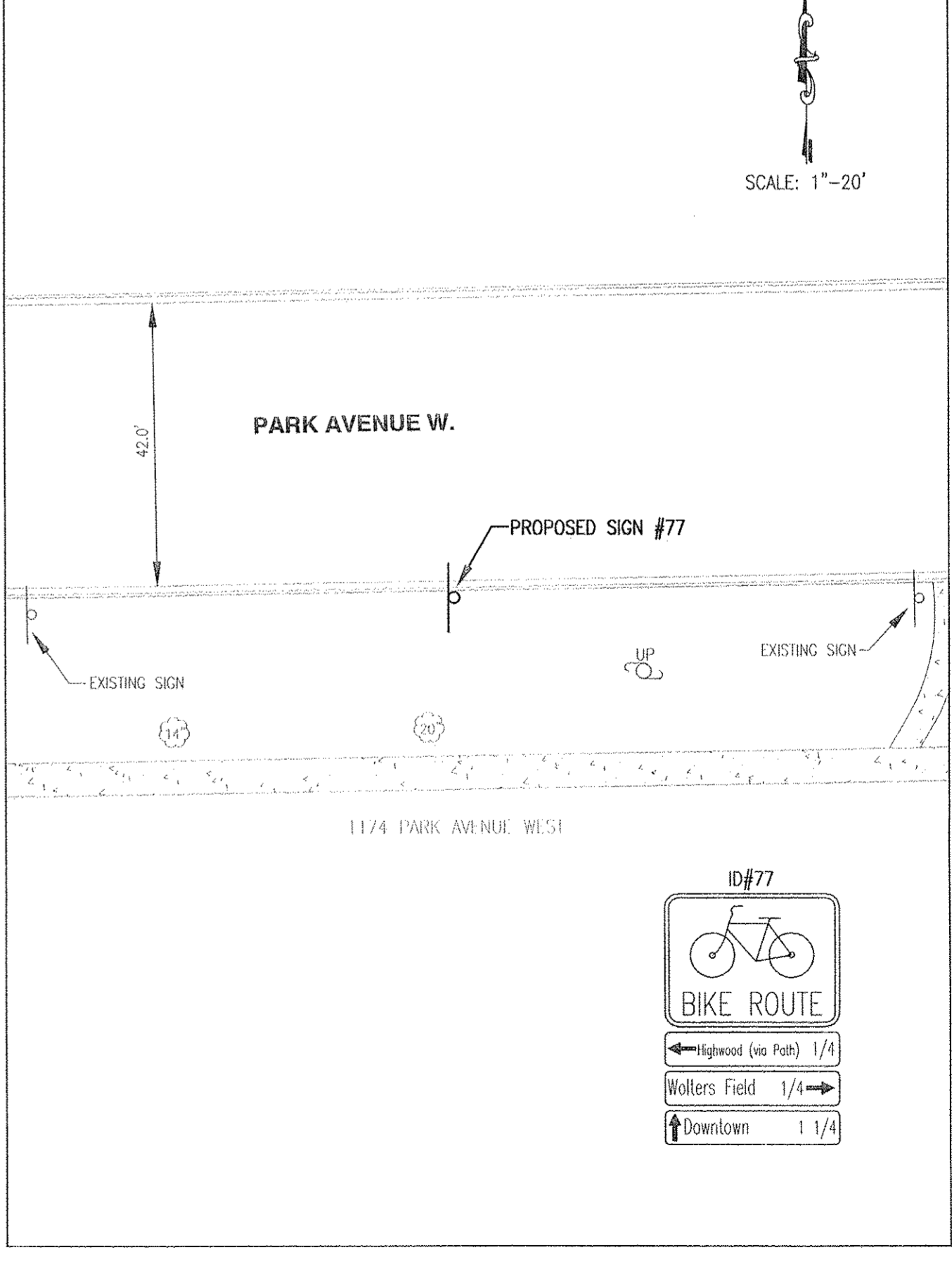
**BICYCLE ROUTE SIGNAGE  
ID#73 & 76**



**BICYCLE ROUTE SIGNAGE  
ID#74, 75 & 107**



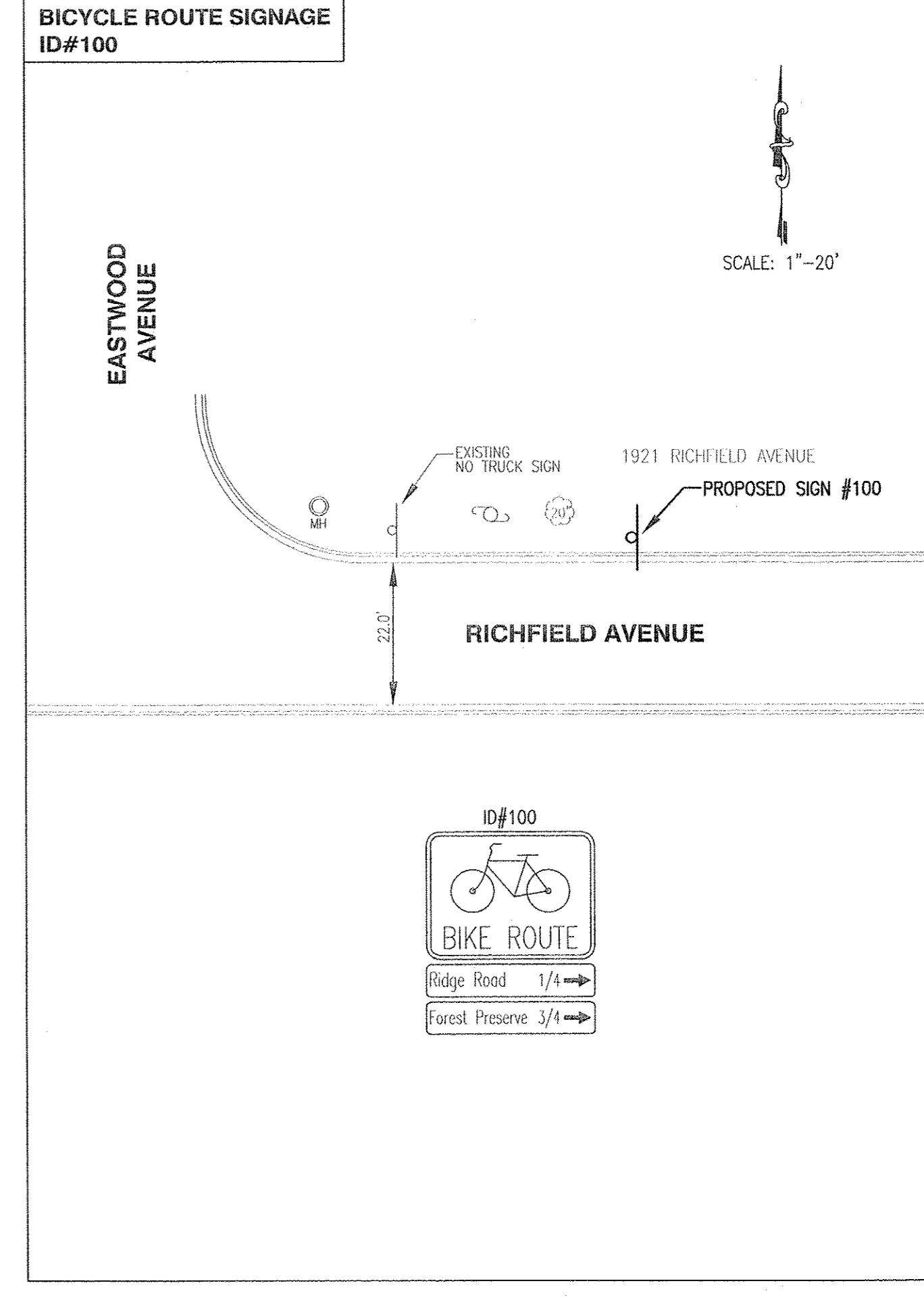
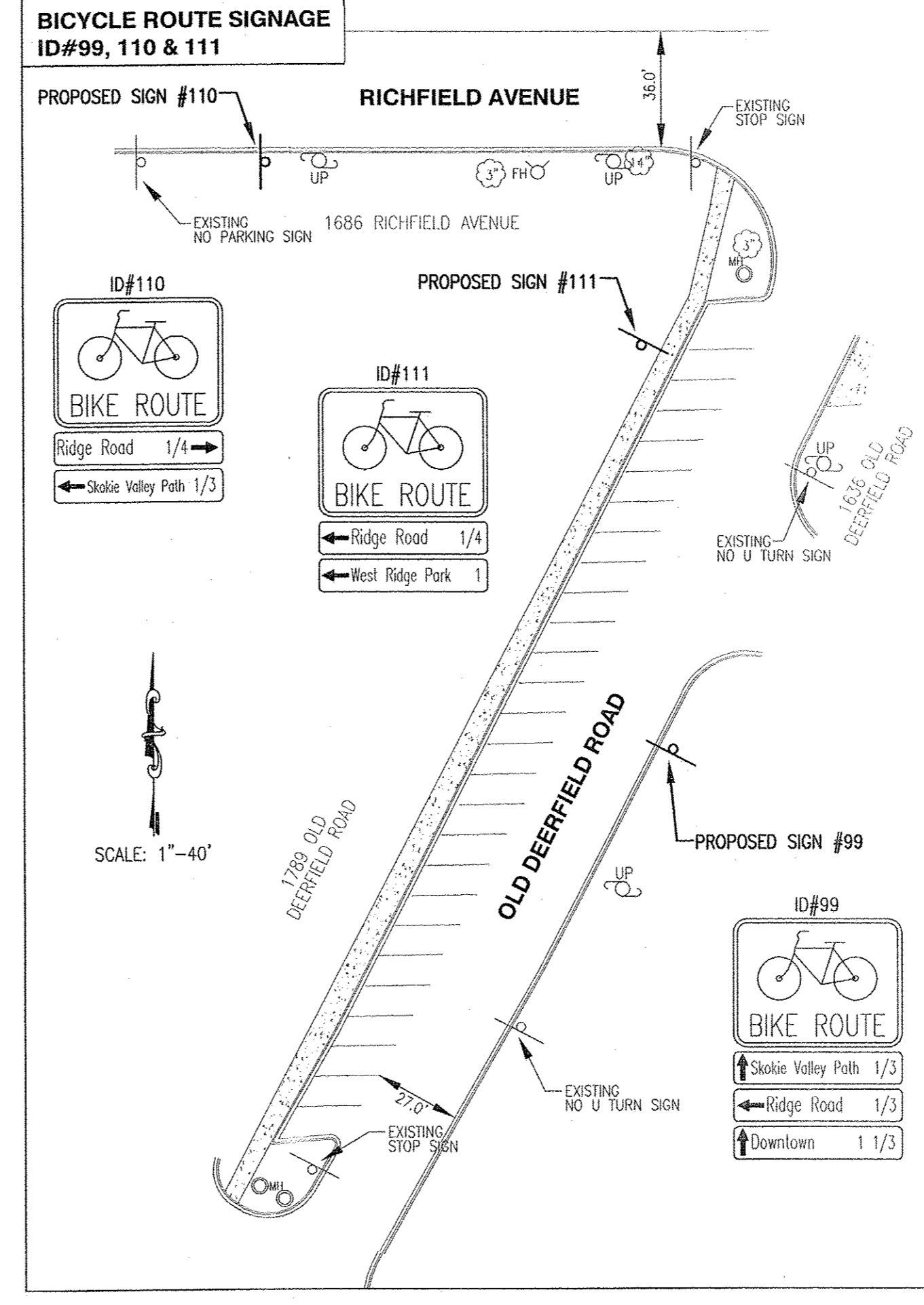
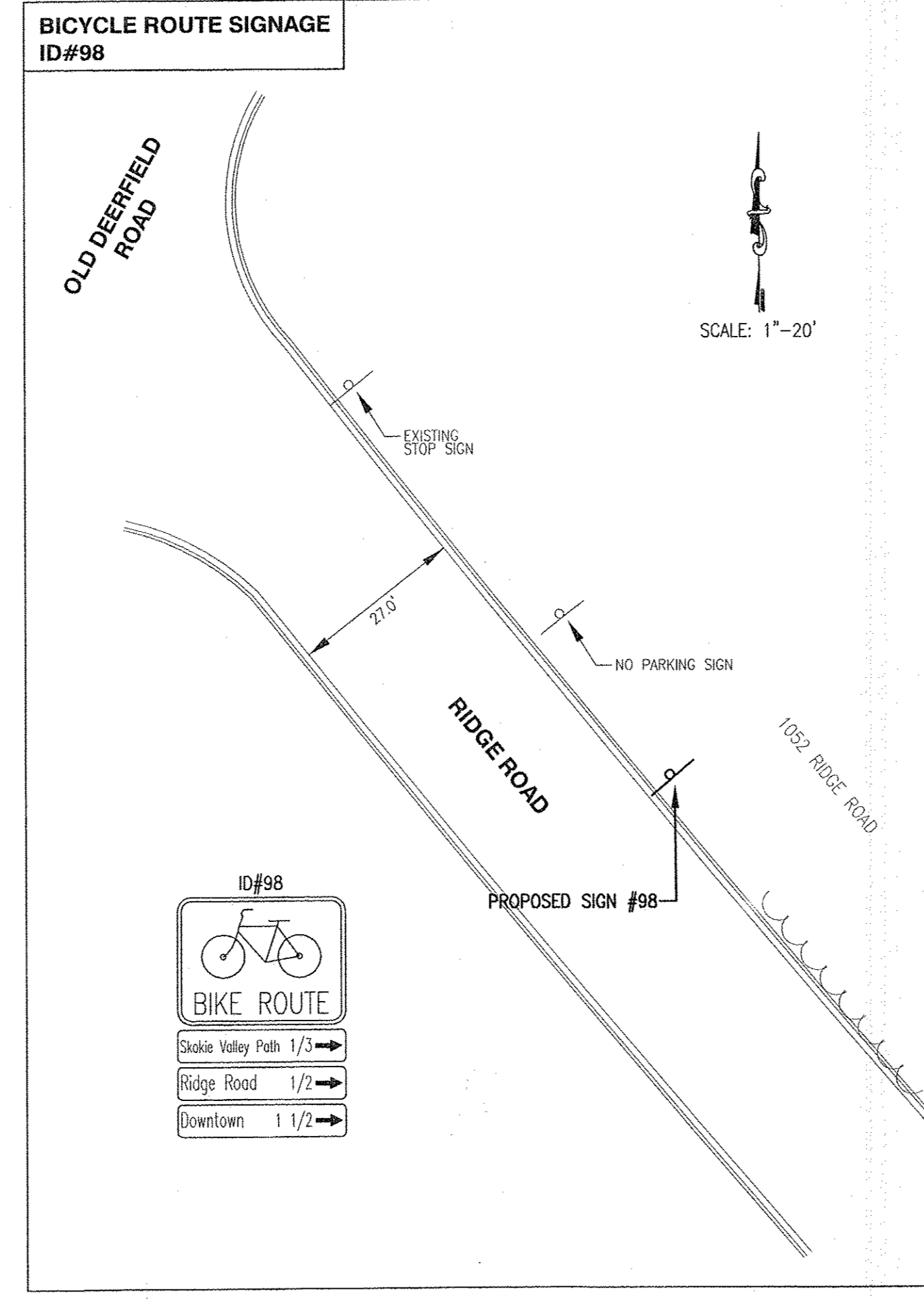
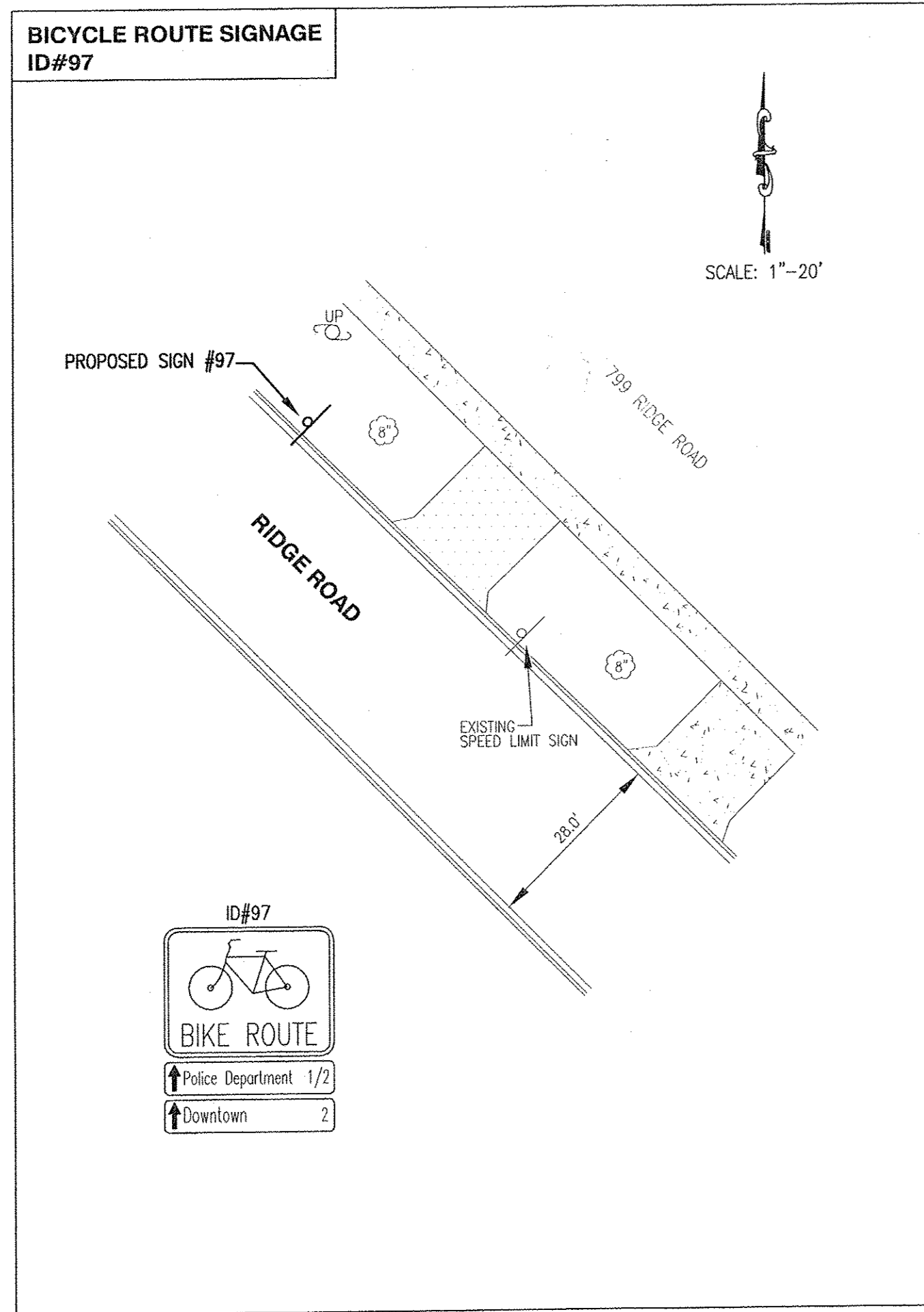
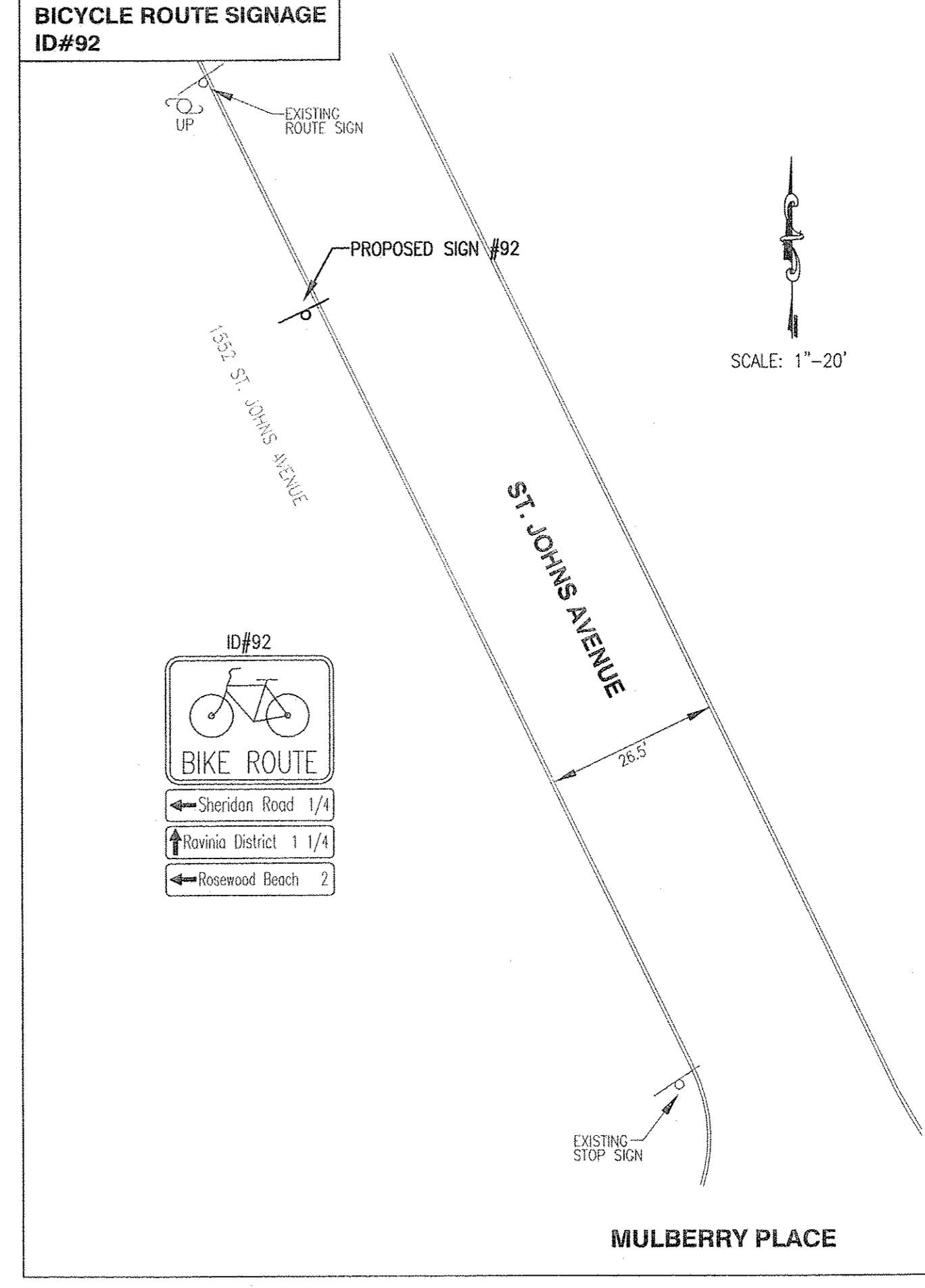
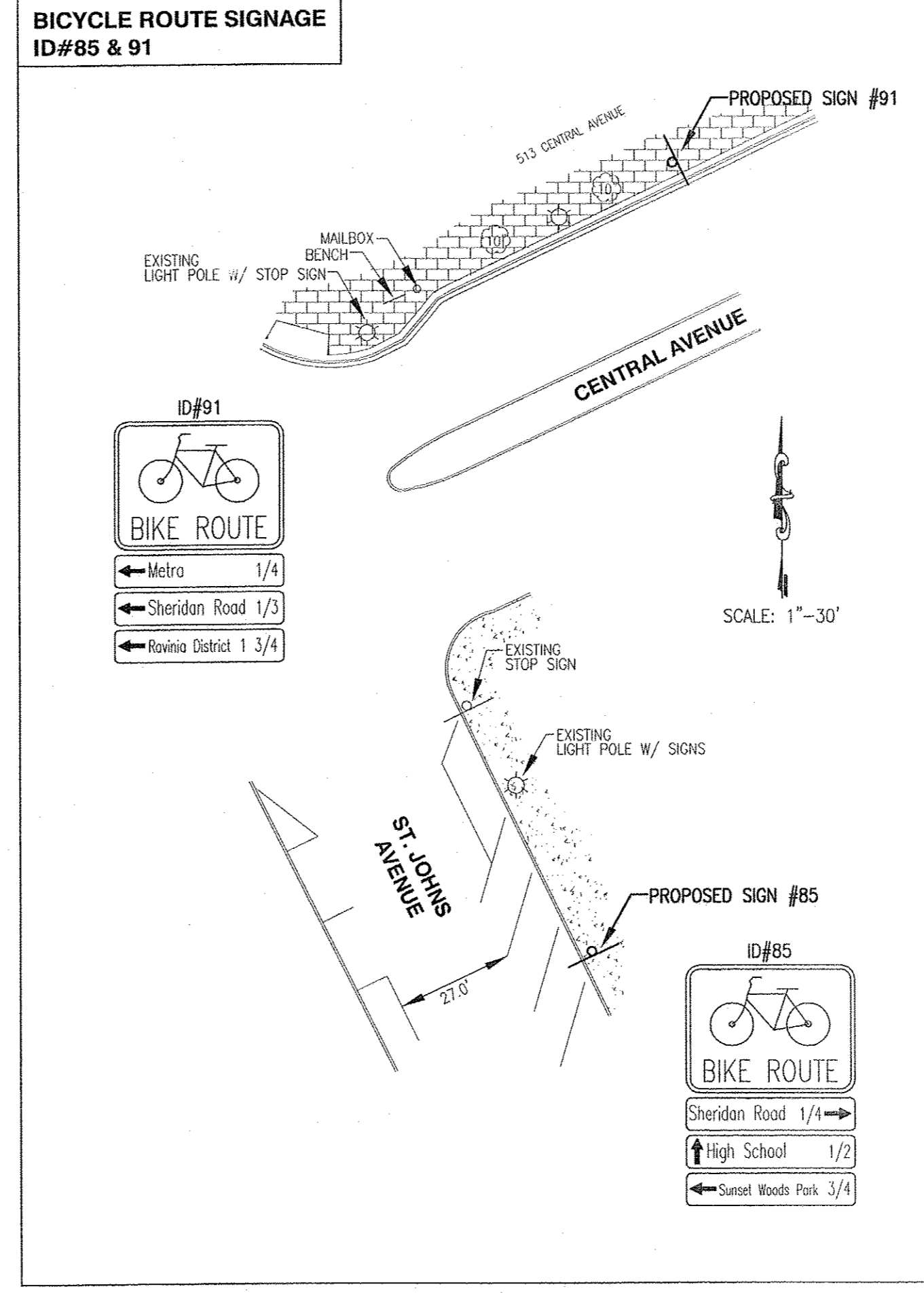
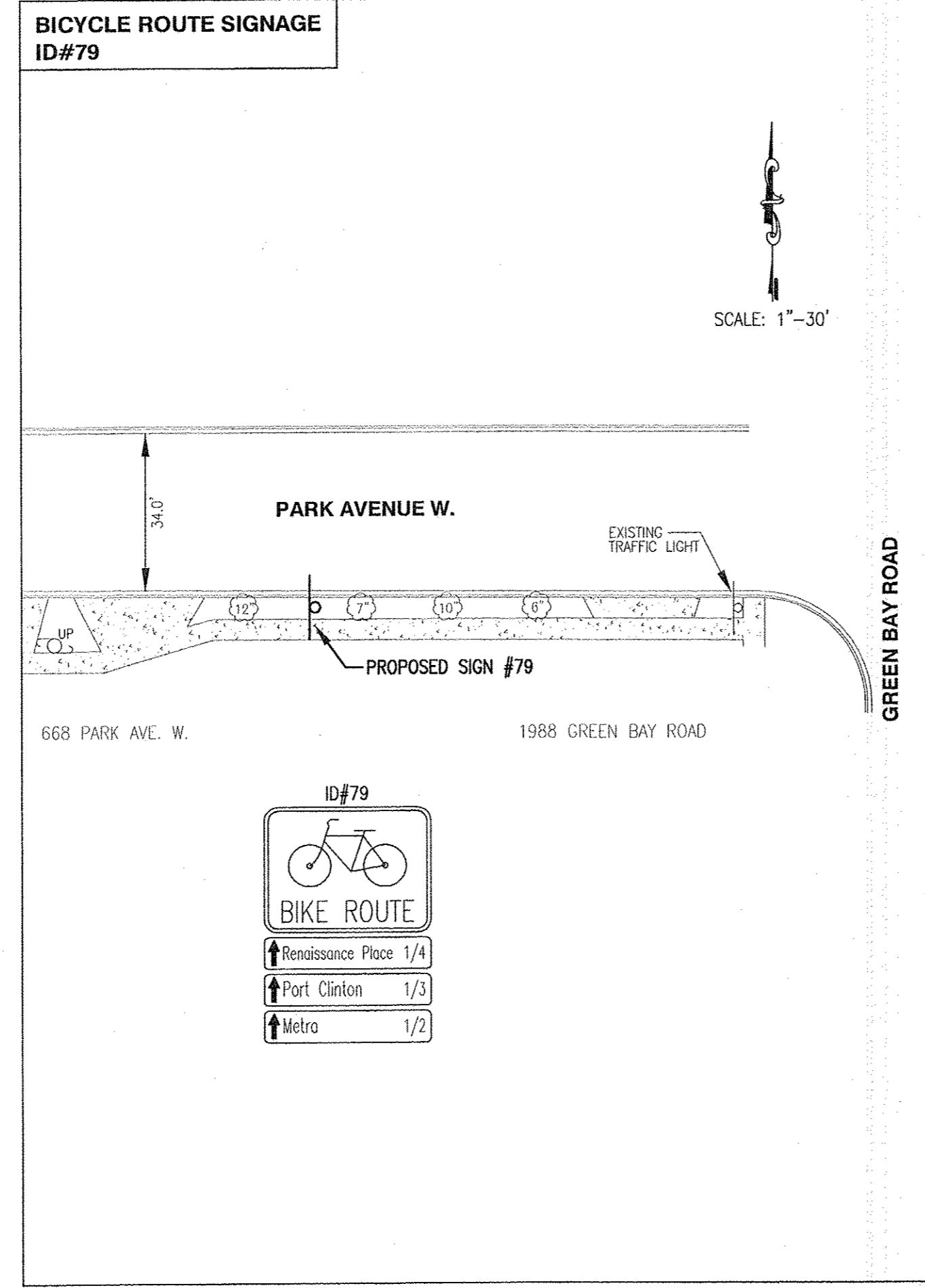
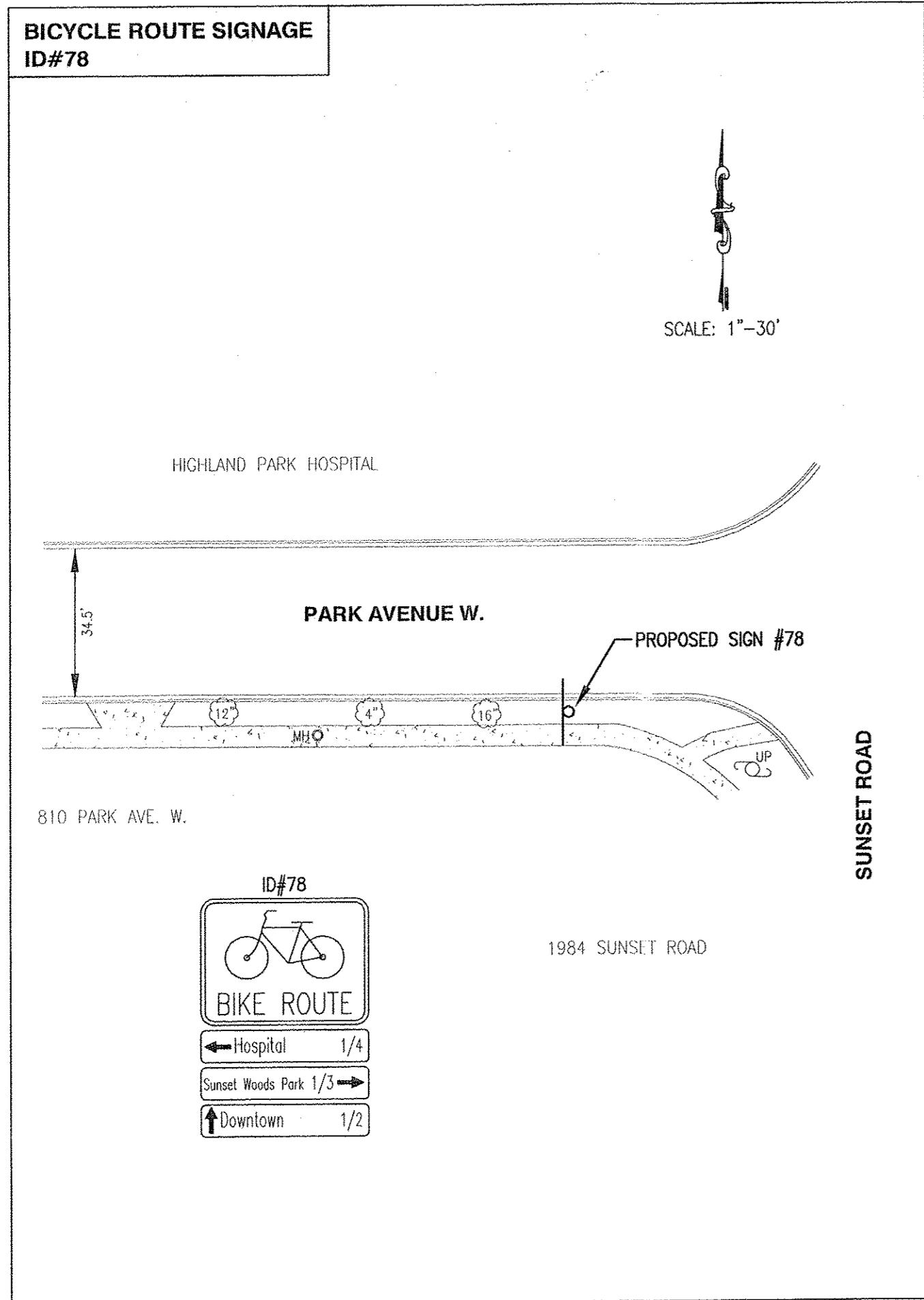
**BICYCLE ROUTE SIGNAGE  
ID#77**



USER NAME:	DESIGNED:	REVISED:
DRAWN:	REVISOR:	
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

SCALE: N/A	SHEET NO. 20 OF 30 SHEETS	STA.	STA.
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	20
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		

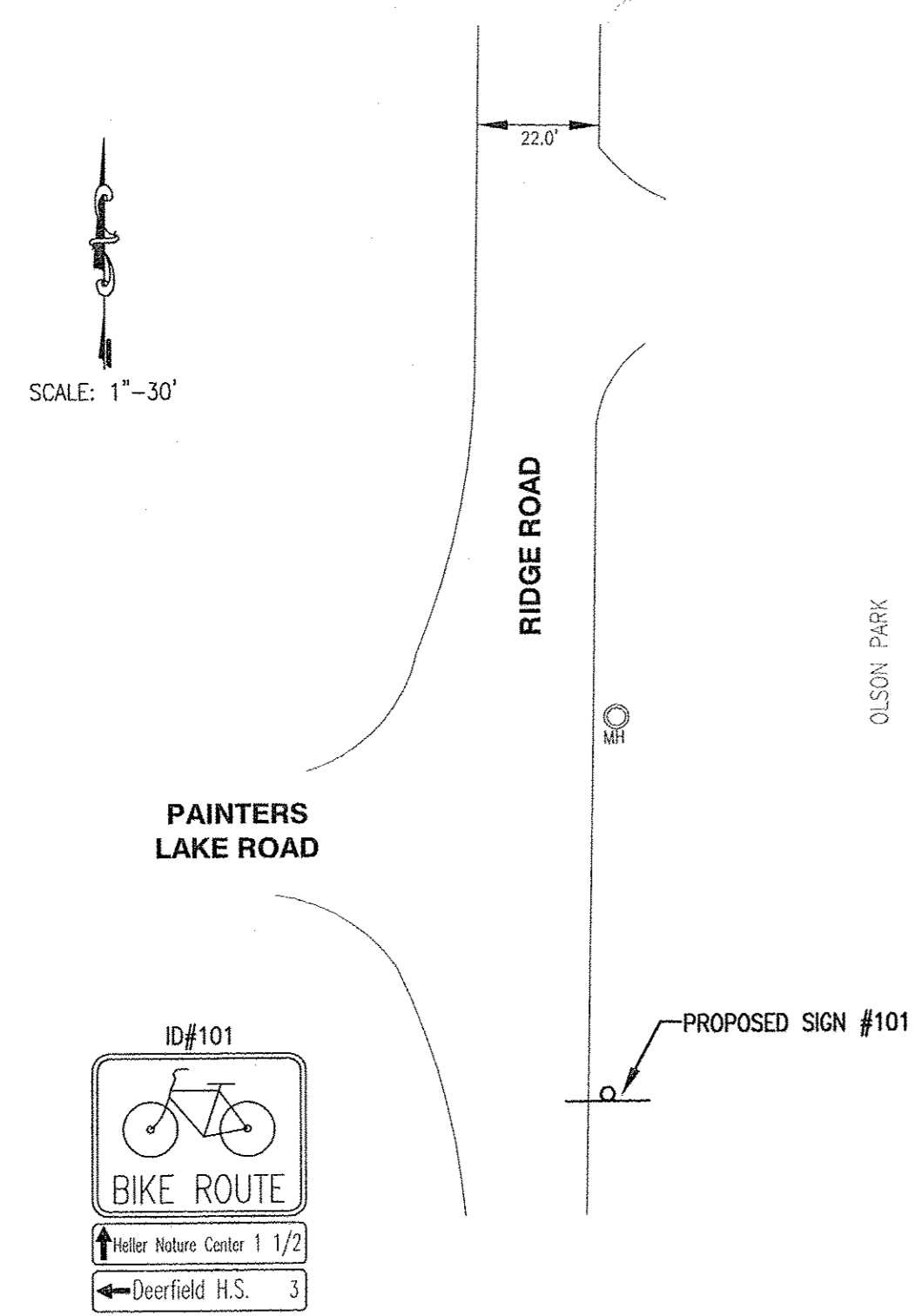


USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

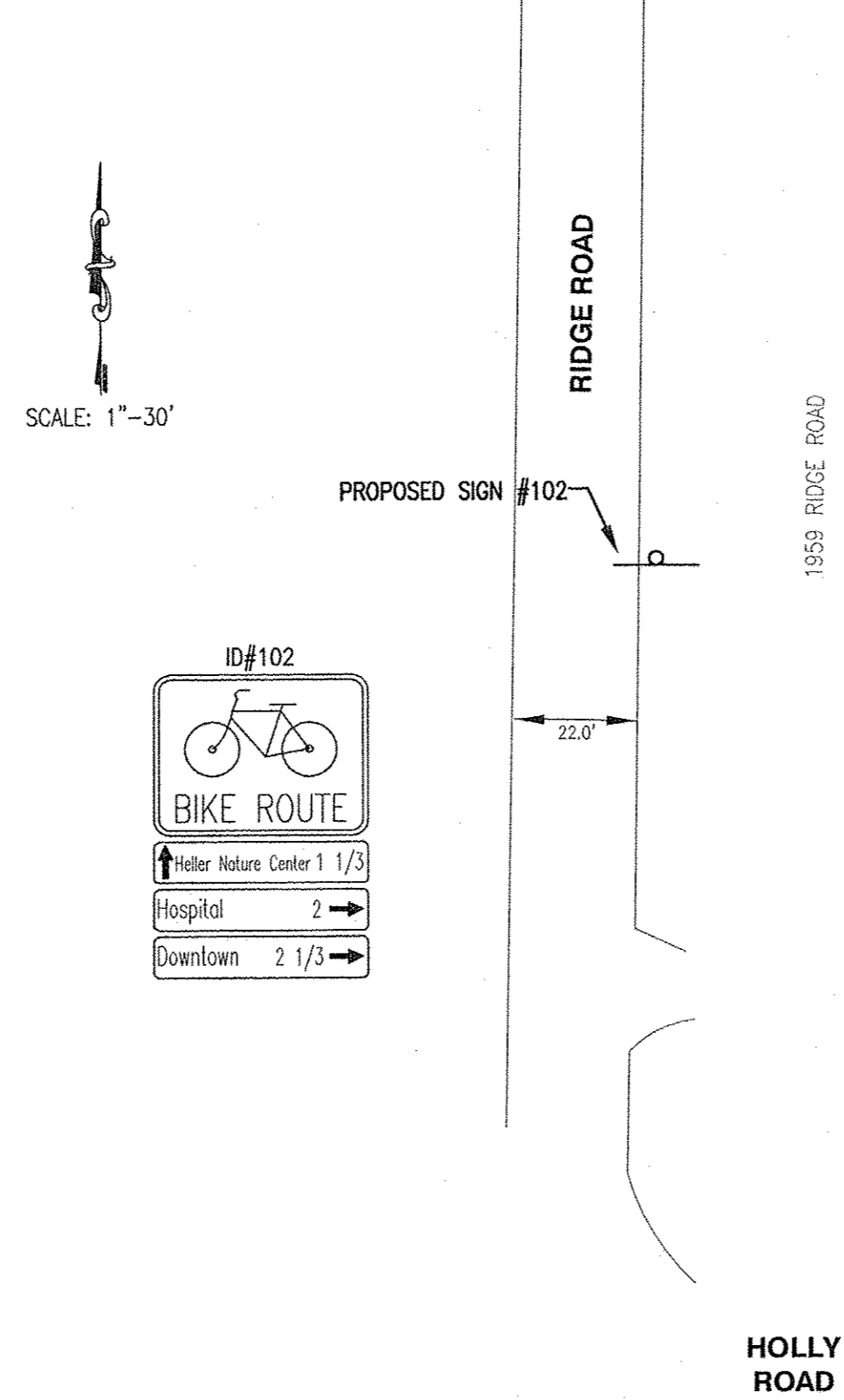
SCALE: N/A	SHEET NO. 21 OF 30 SHEETS	STA.	STA.
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	21
FED. ROAD DIST. NO. -	CONTRACT NO. 610B8		
ILLINOIS	FEDERAL AID PROJECT		

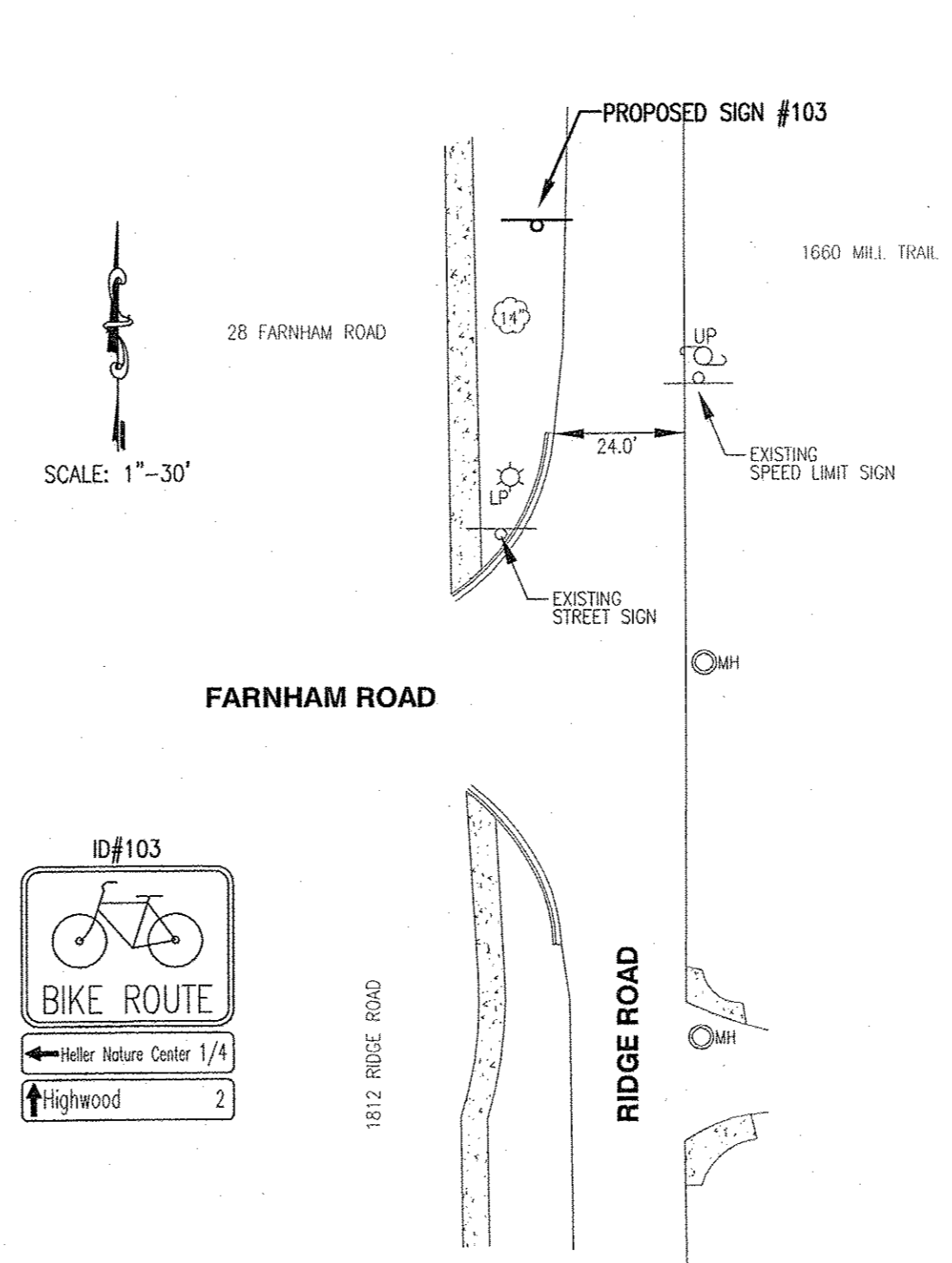
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ID#101



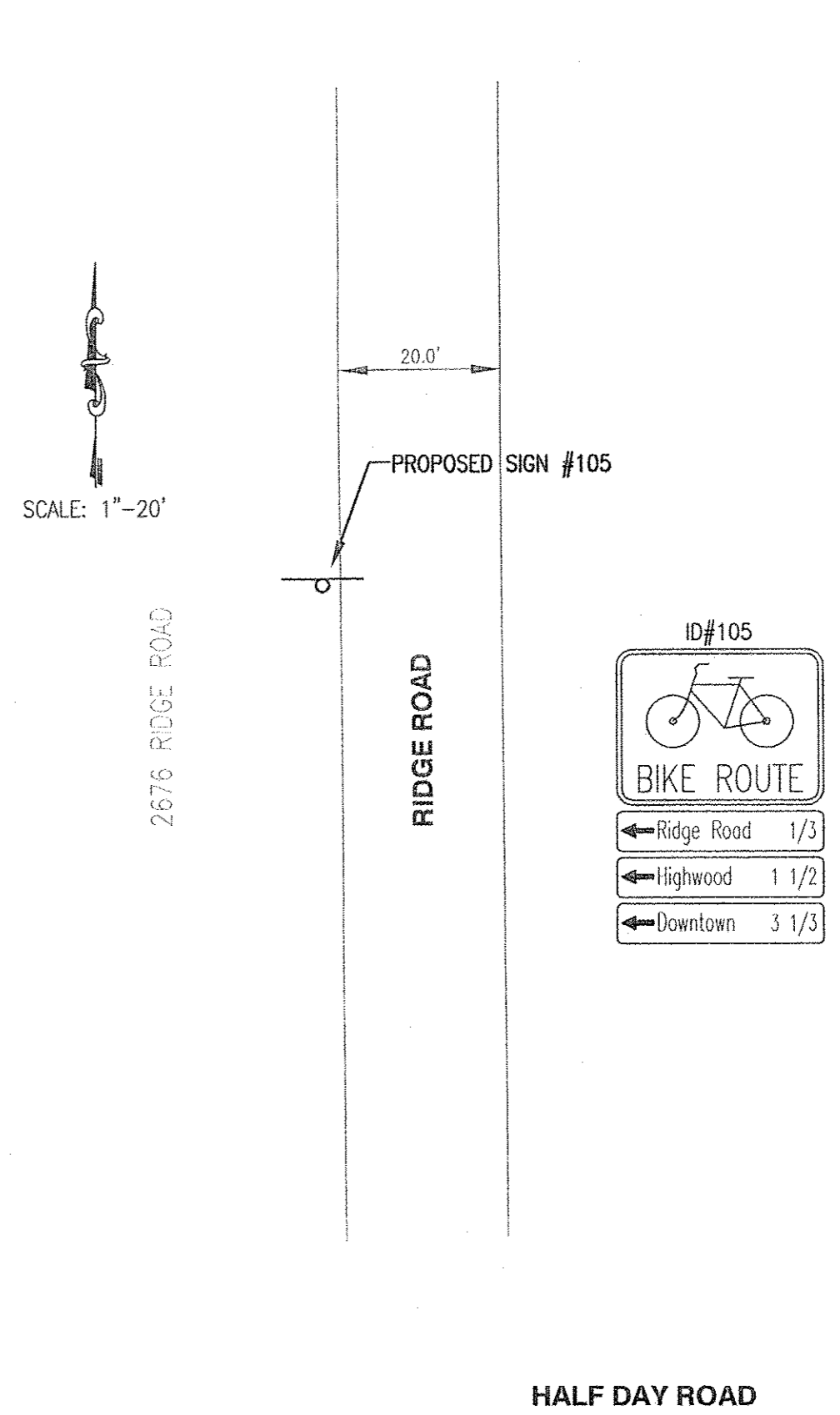
BICYCLE ROUTE SIGNAGE  
ID#102



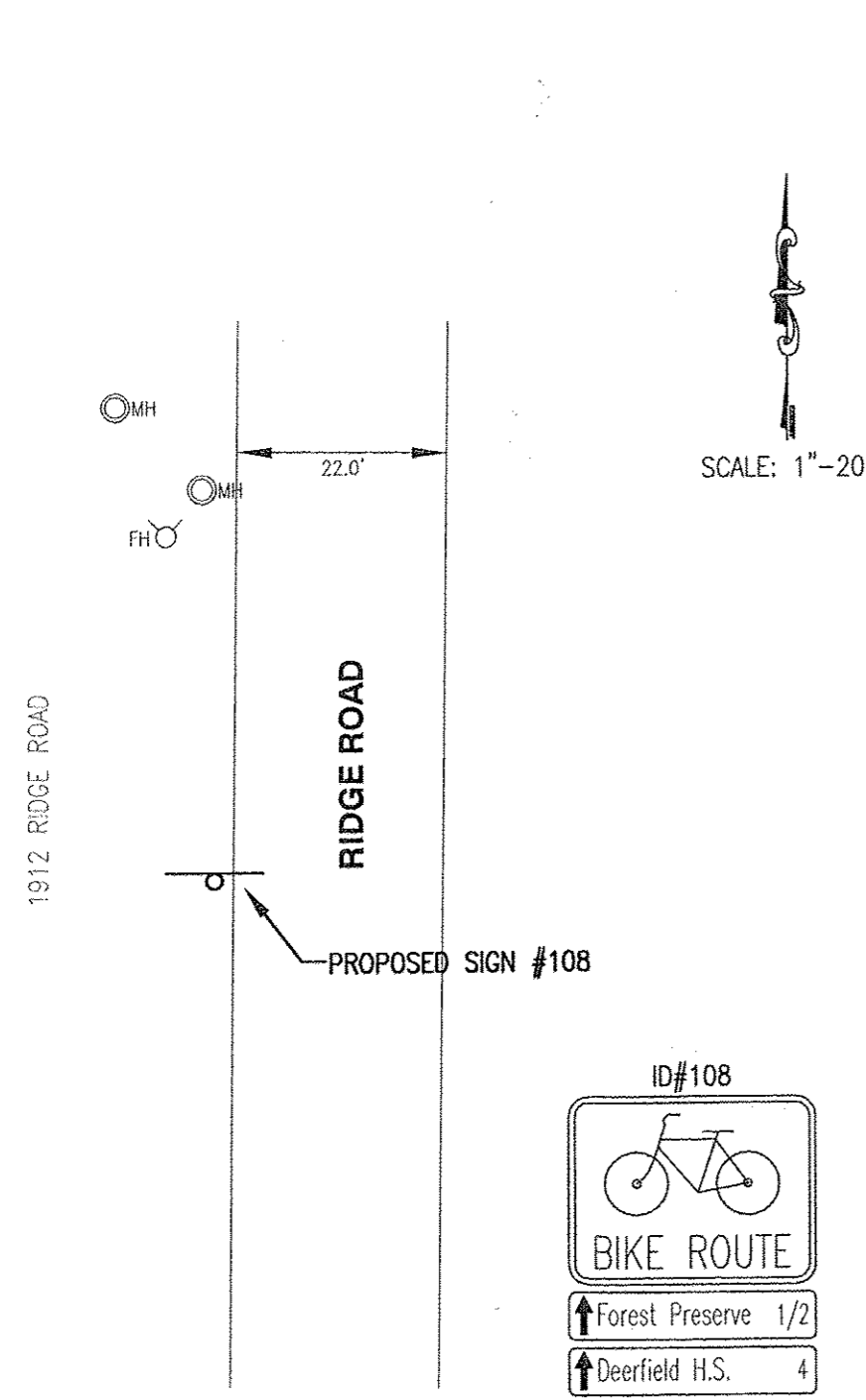
BICYCLE ROUTE SIGNAGE  
ID#103



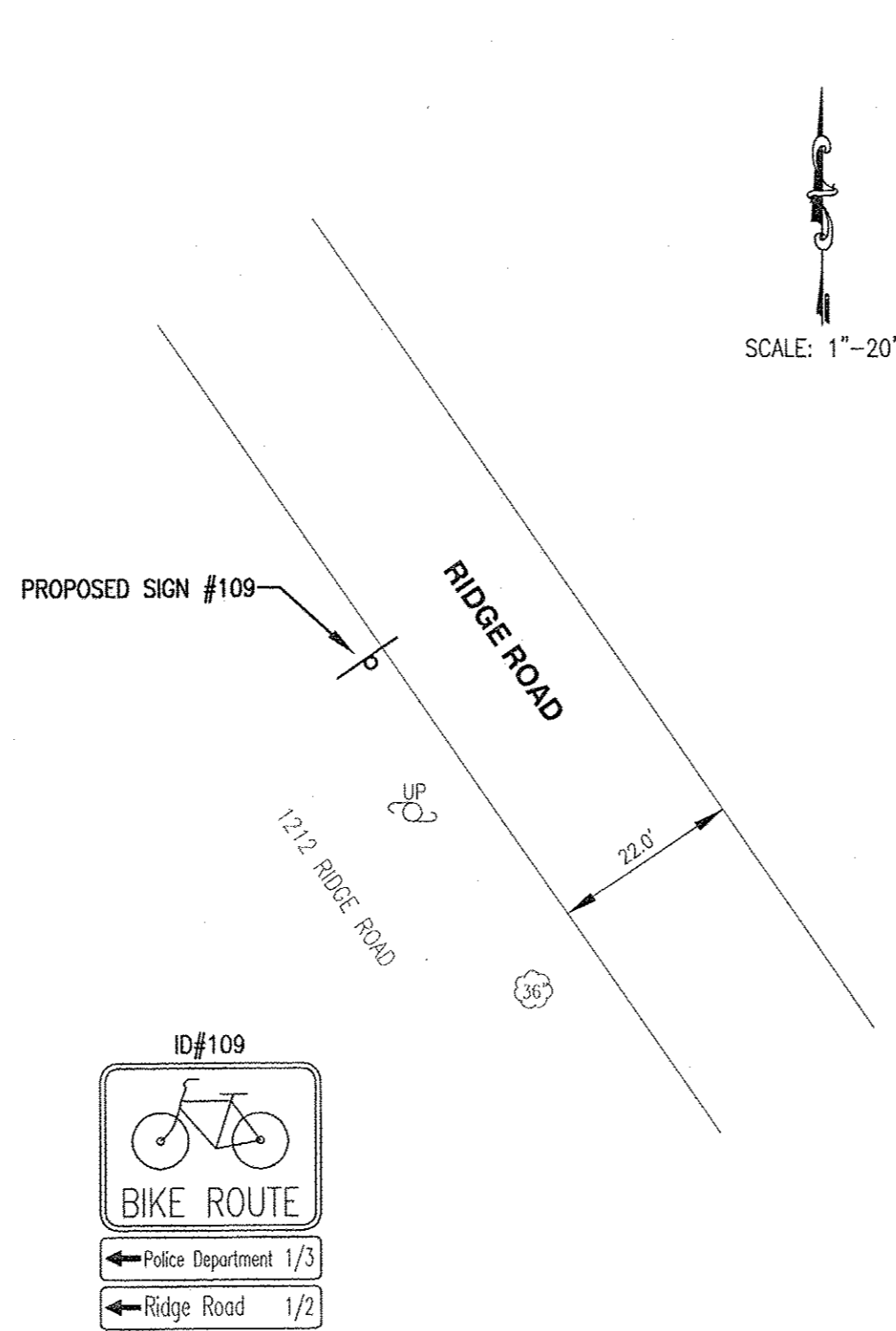
BICYCLE ROUTE SIGNAGE  
ID#105



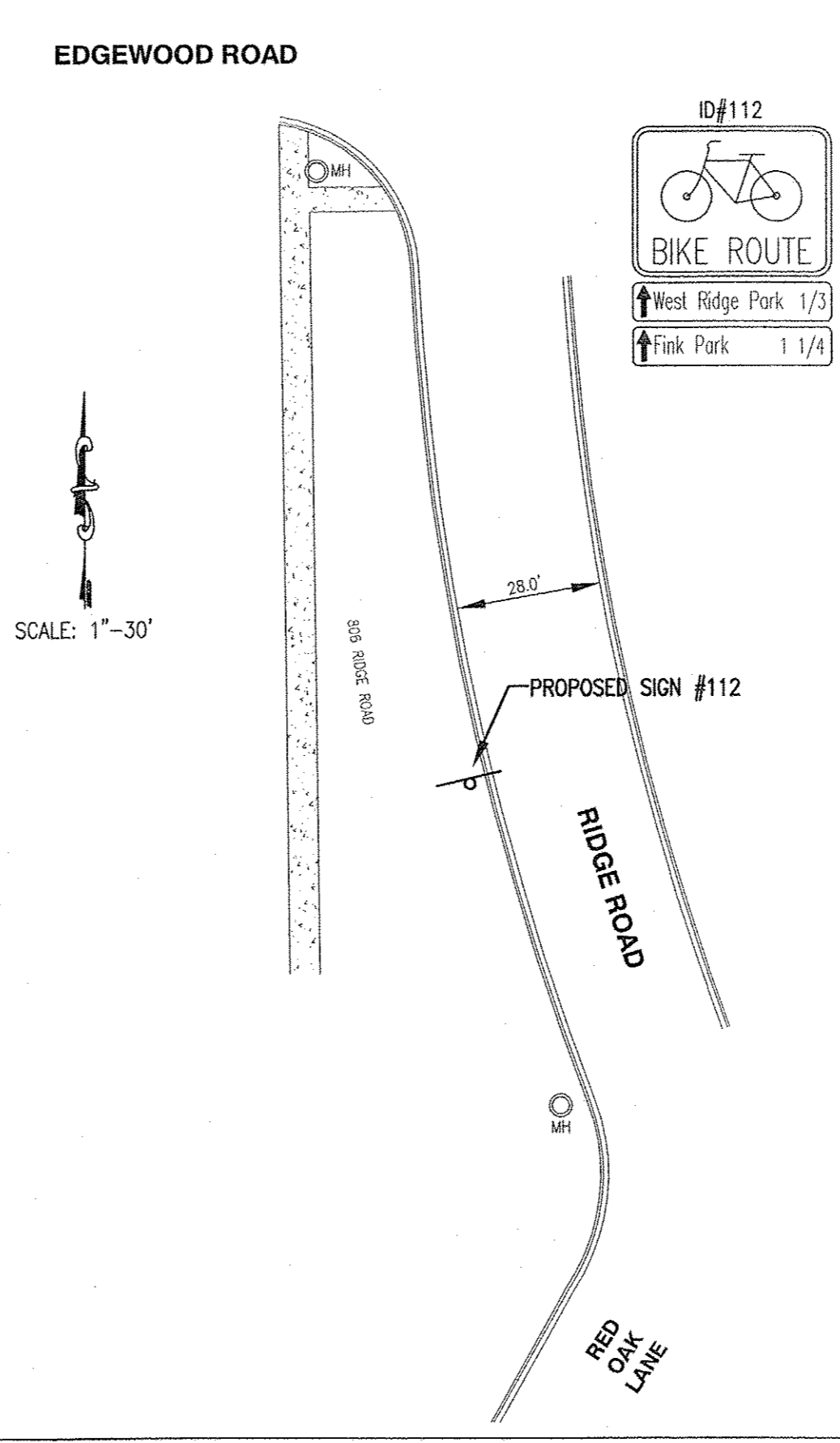
BICYCLE ROUTE SIGNAGE  
ID#108



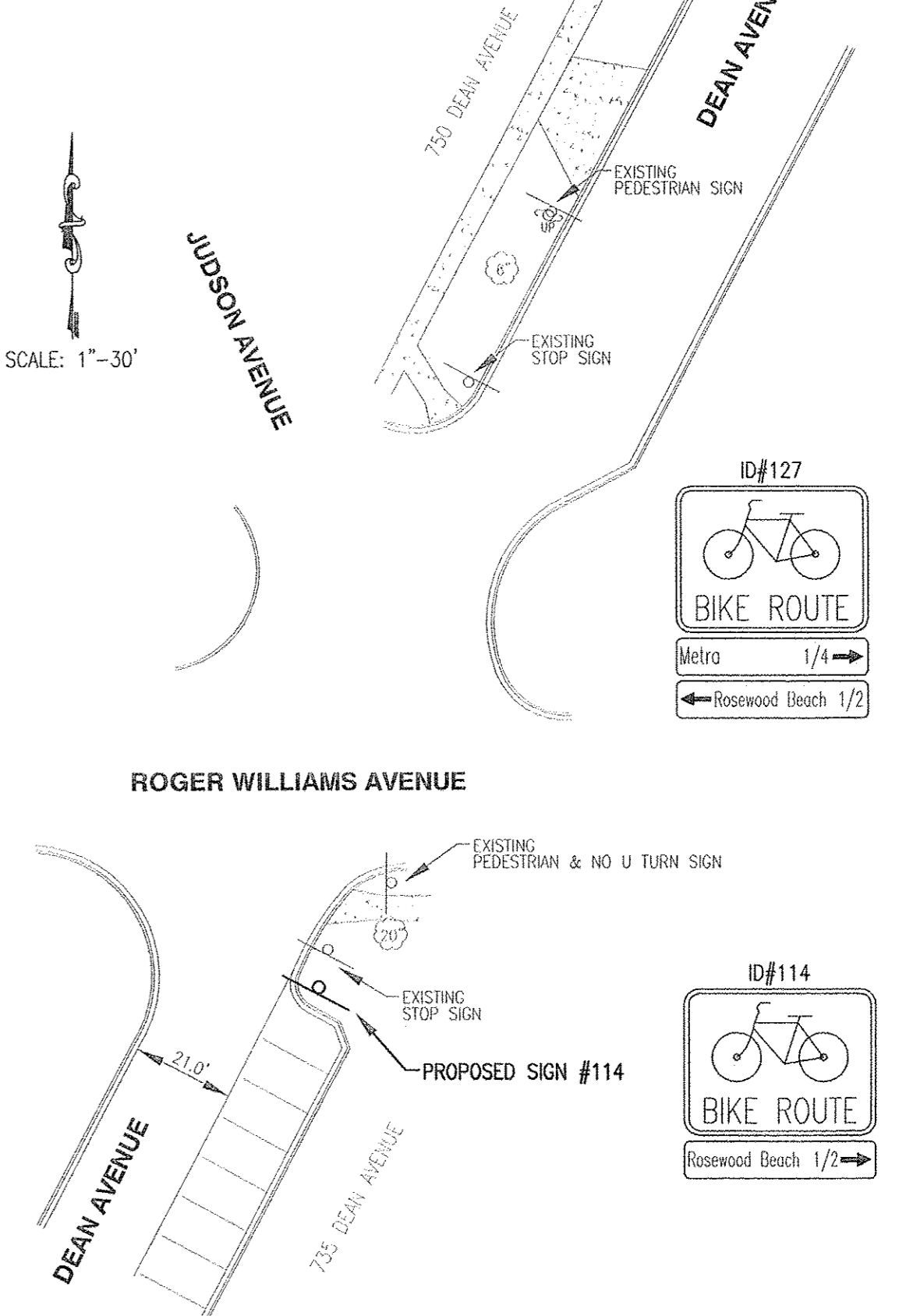
BICYCLE ROUTE SIGNAGE  
ID#109



BICYCLE ROUTE SIGNAGE  
ID#112

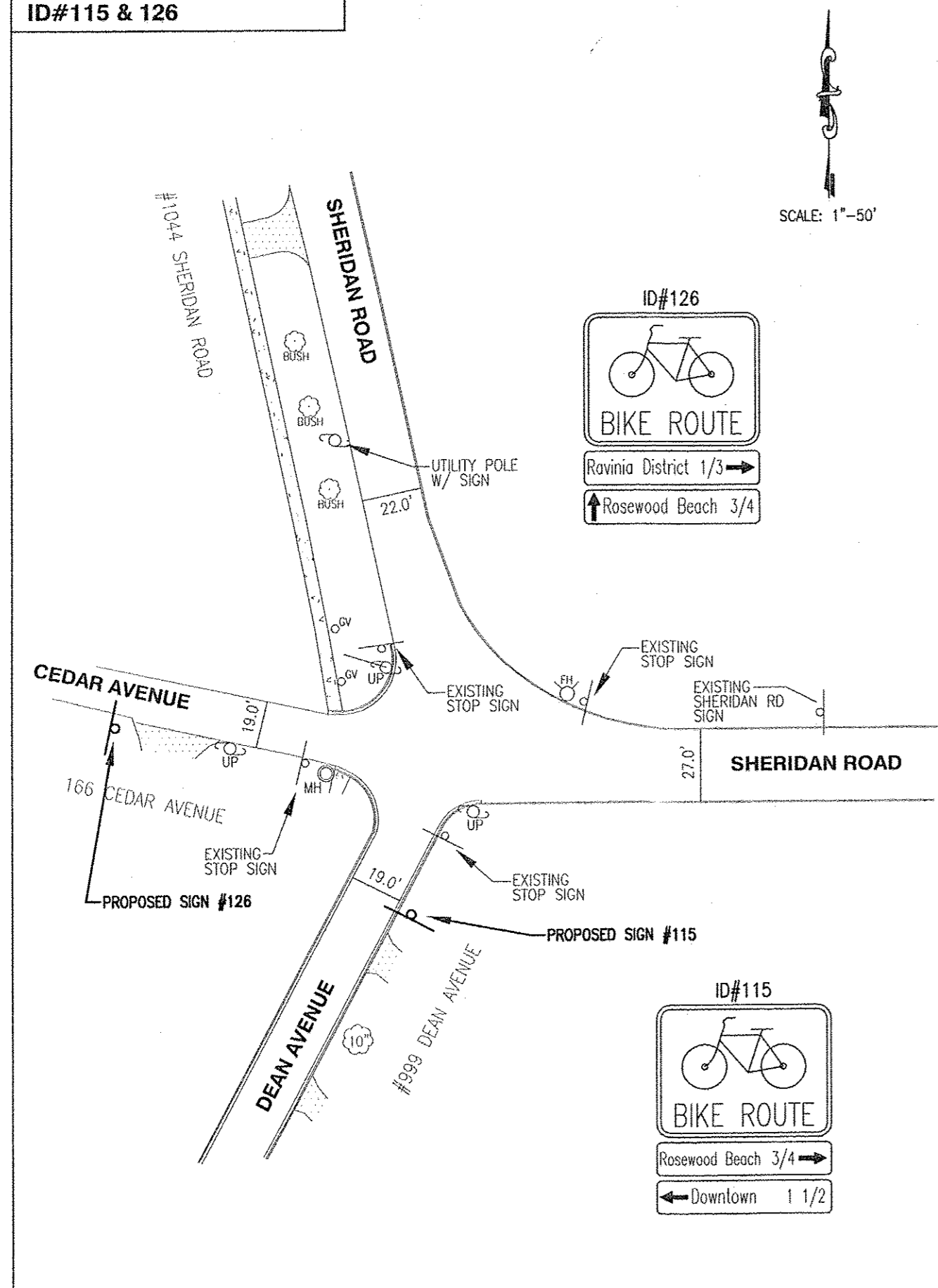


BICYCLE ROUTE SIGNAGE  
ID#114 & 127

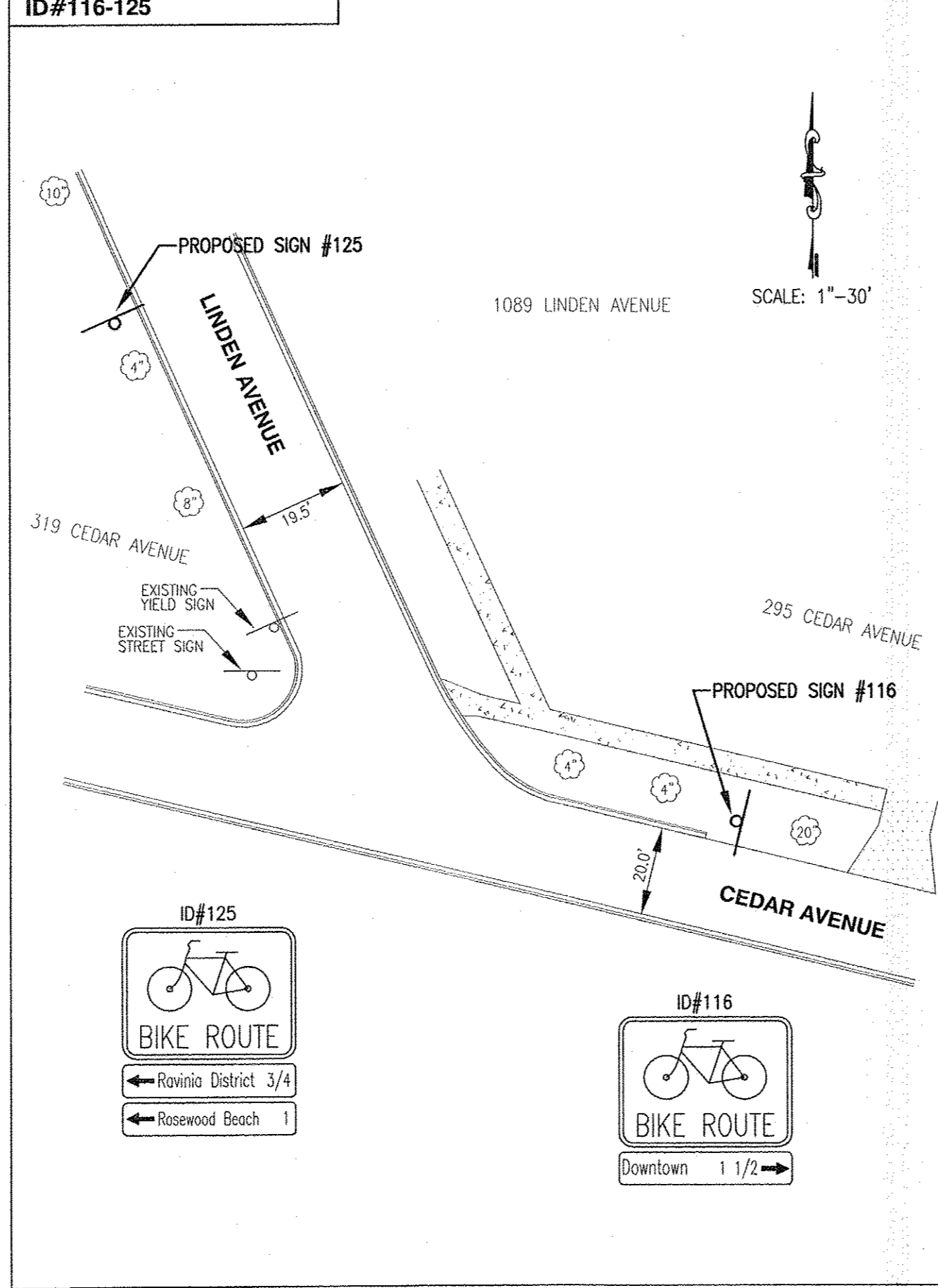


USER NAME:	DESIGNED:	REVISED:
DRAWN:	CHECKED:	REVISED:
PLOT SCALE:	DATE:	REVISED:
PLOT DATE:		

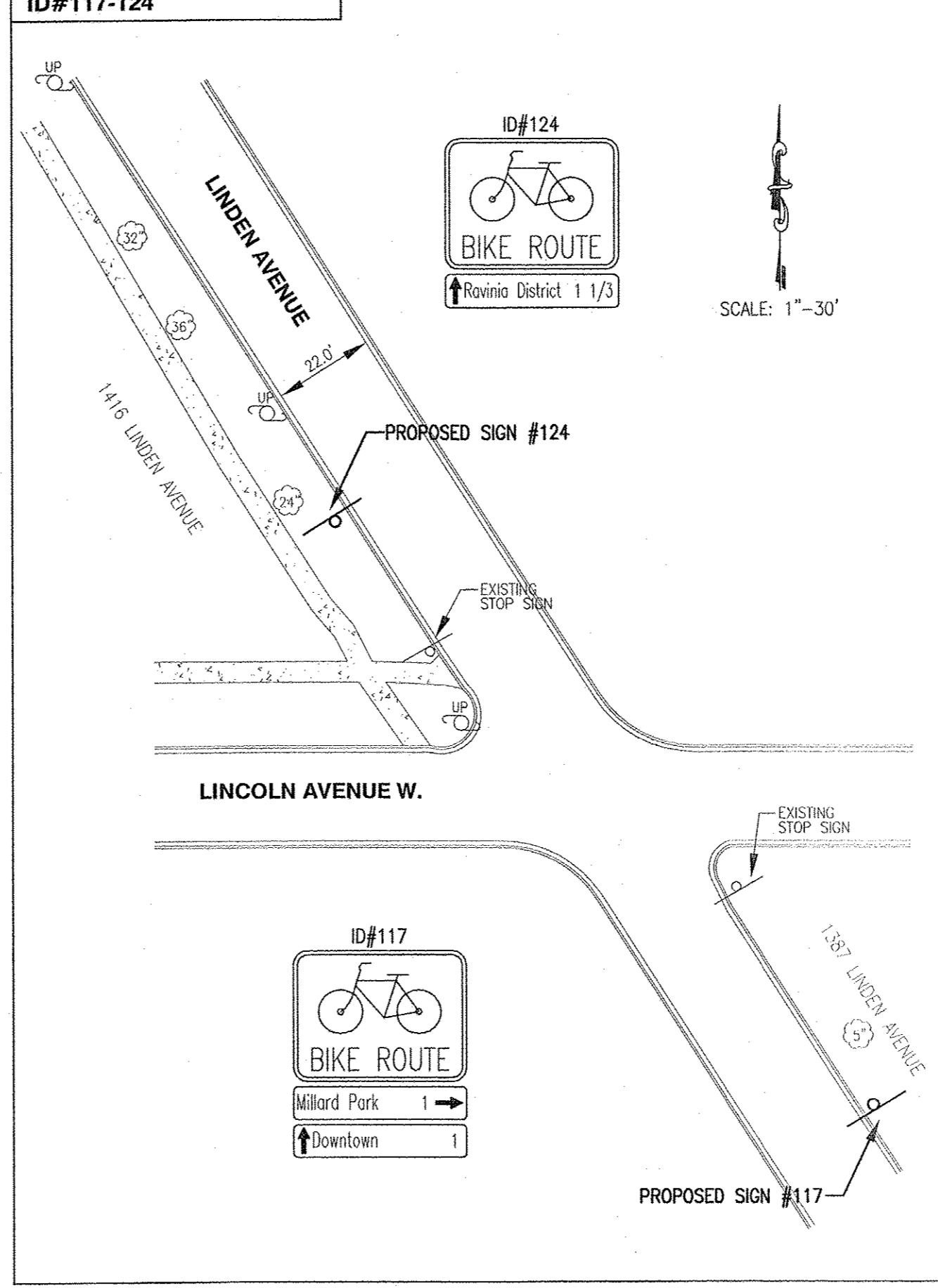
**BICYCLE ROUTE SIGNAGE  
ID#115 & 126**



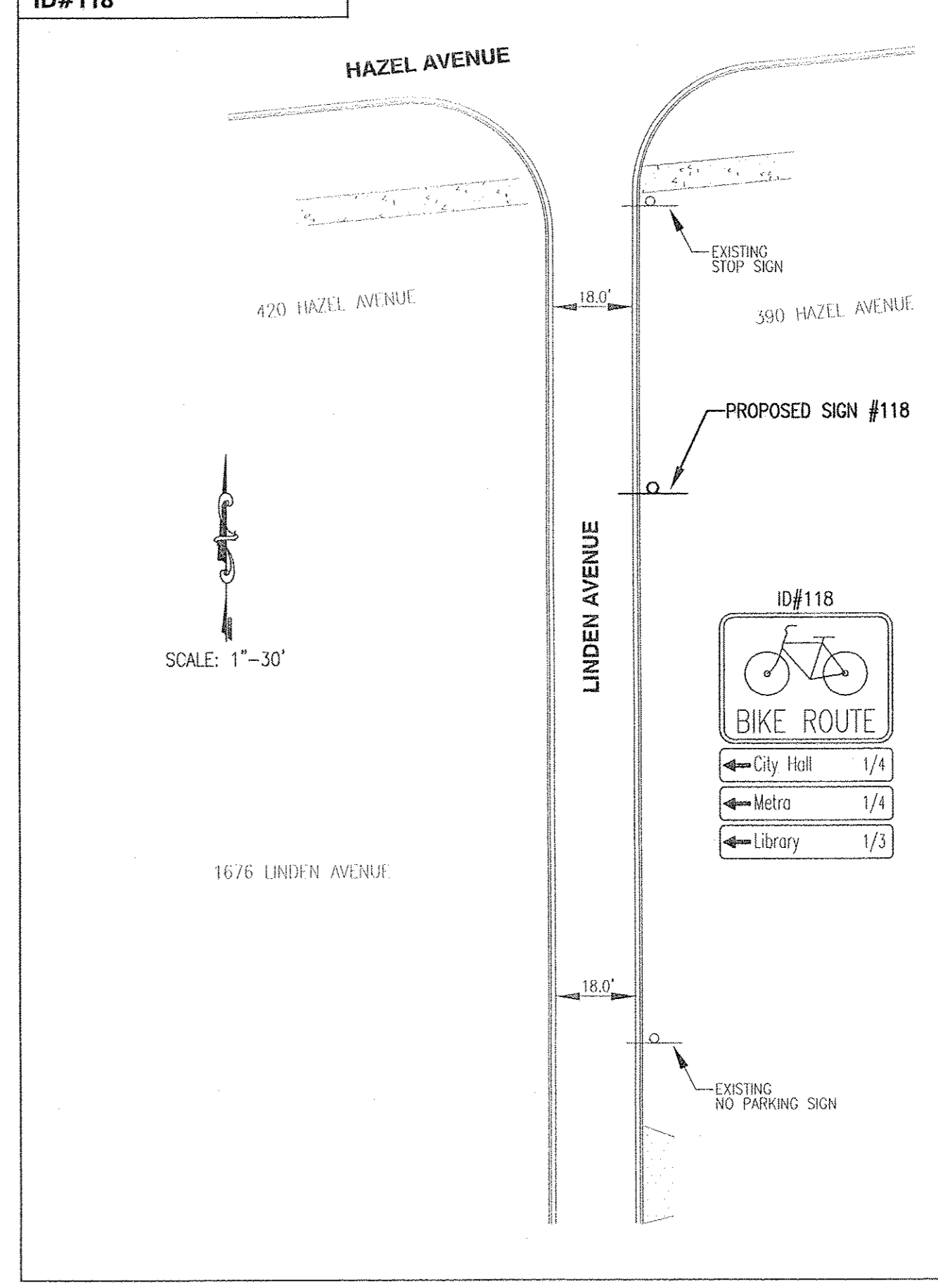
**BICYCLE ROUTE SIGNAGE  
ID#116-125**



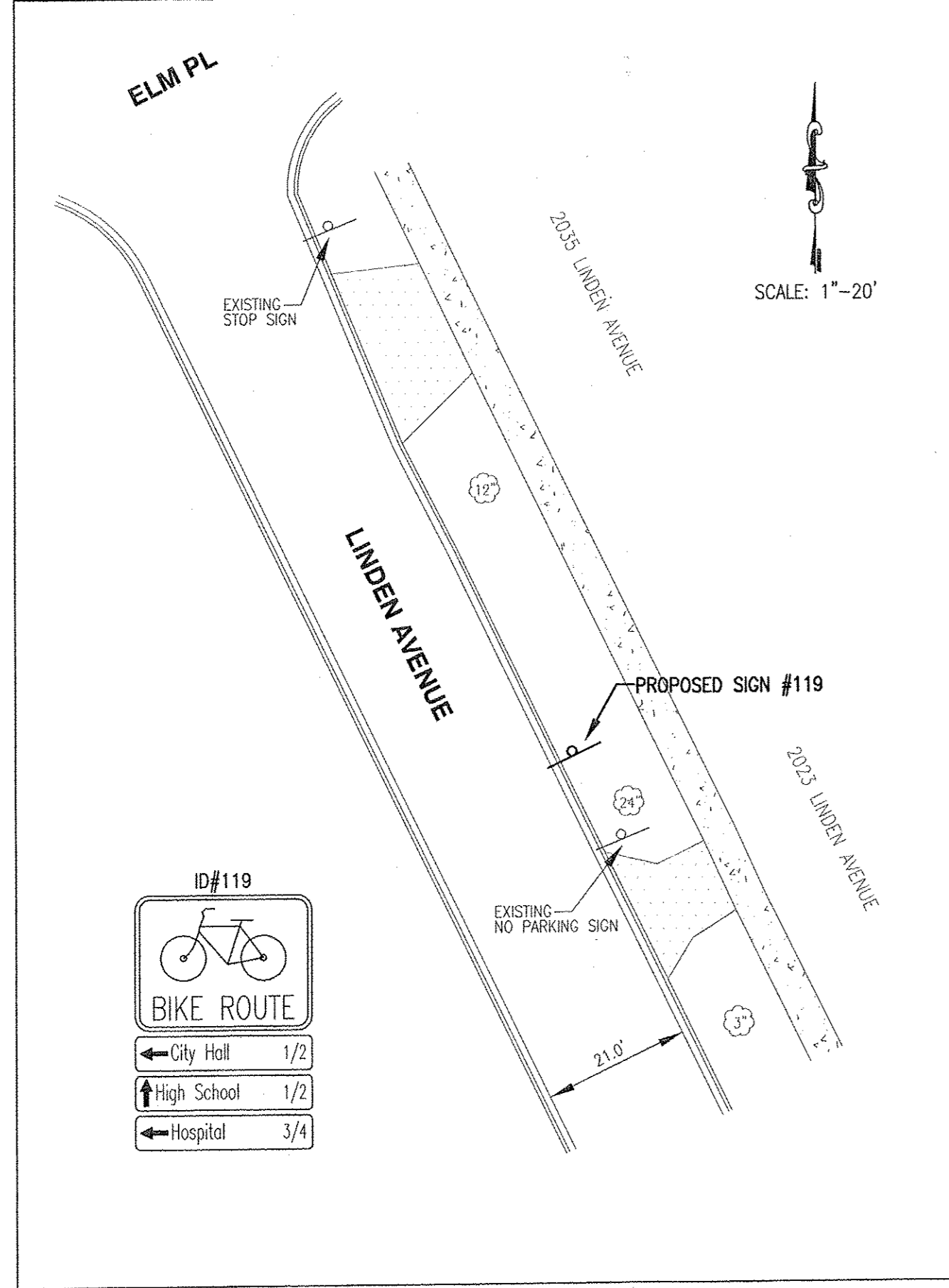
**BICYCLE ROUTE SIGNAGE  
ID#117-124**



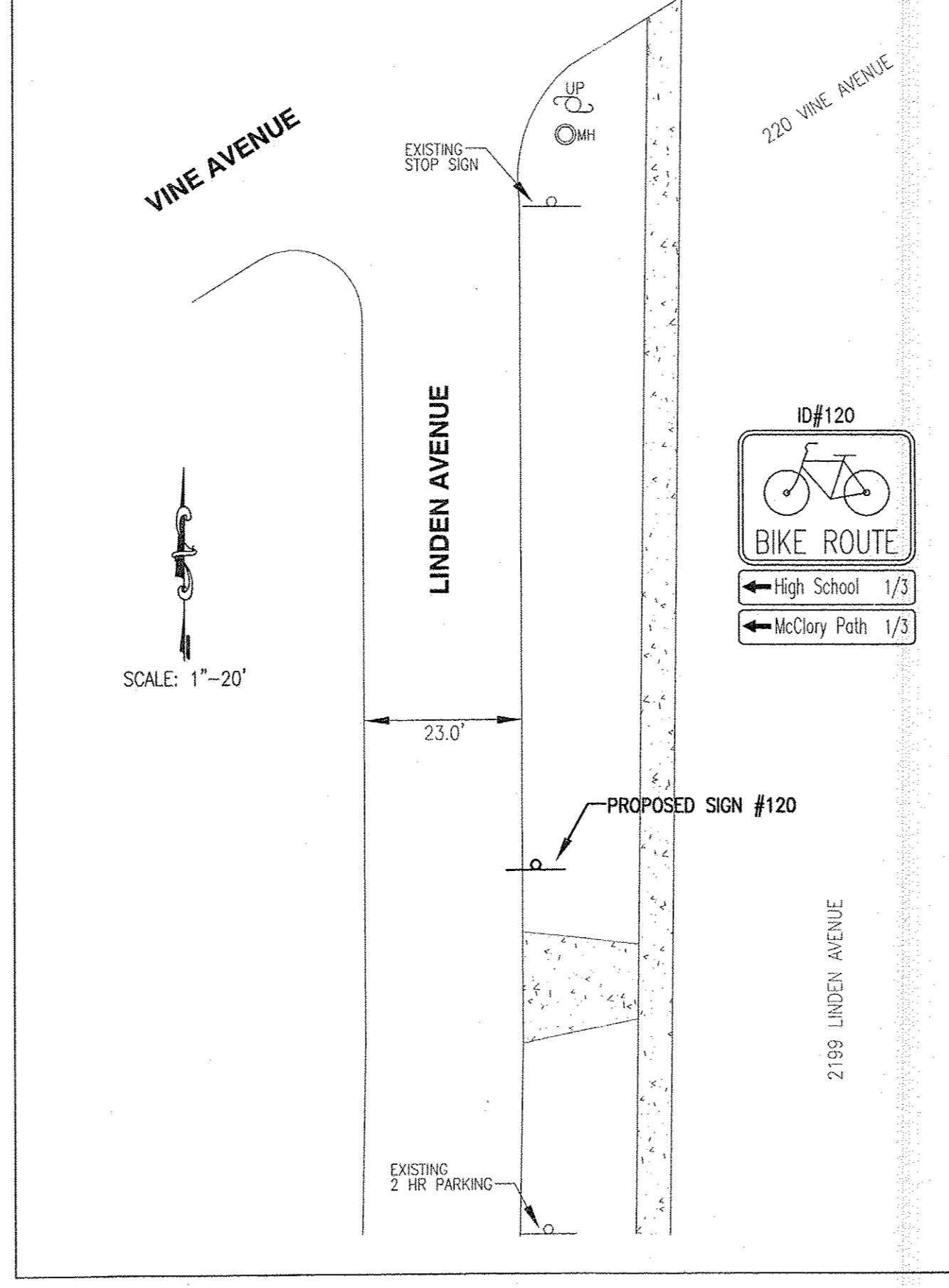
**BICYCLE ROUTE SIGNAGE  
ID#118**



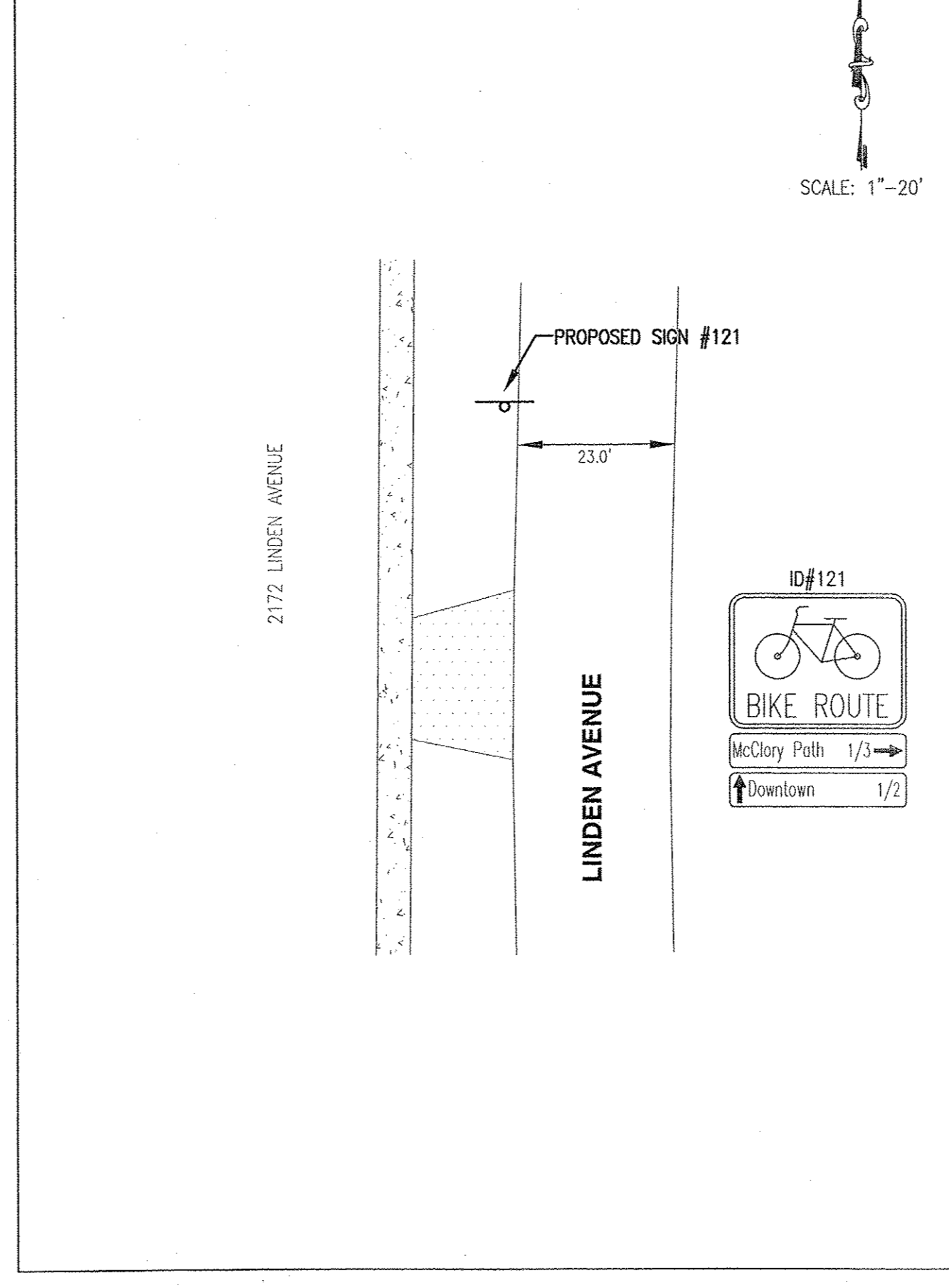
**BICYCLE ROUTE SIGNAGE  
ID#119**



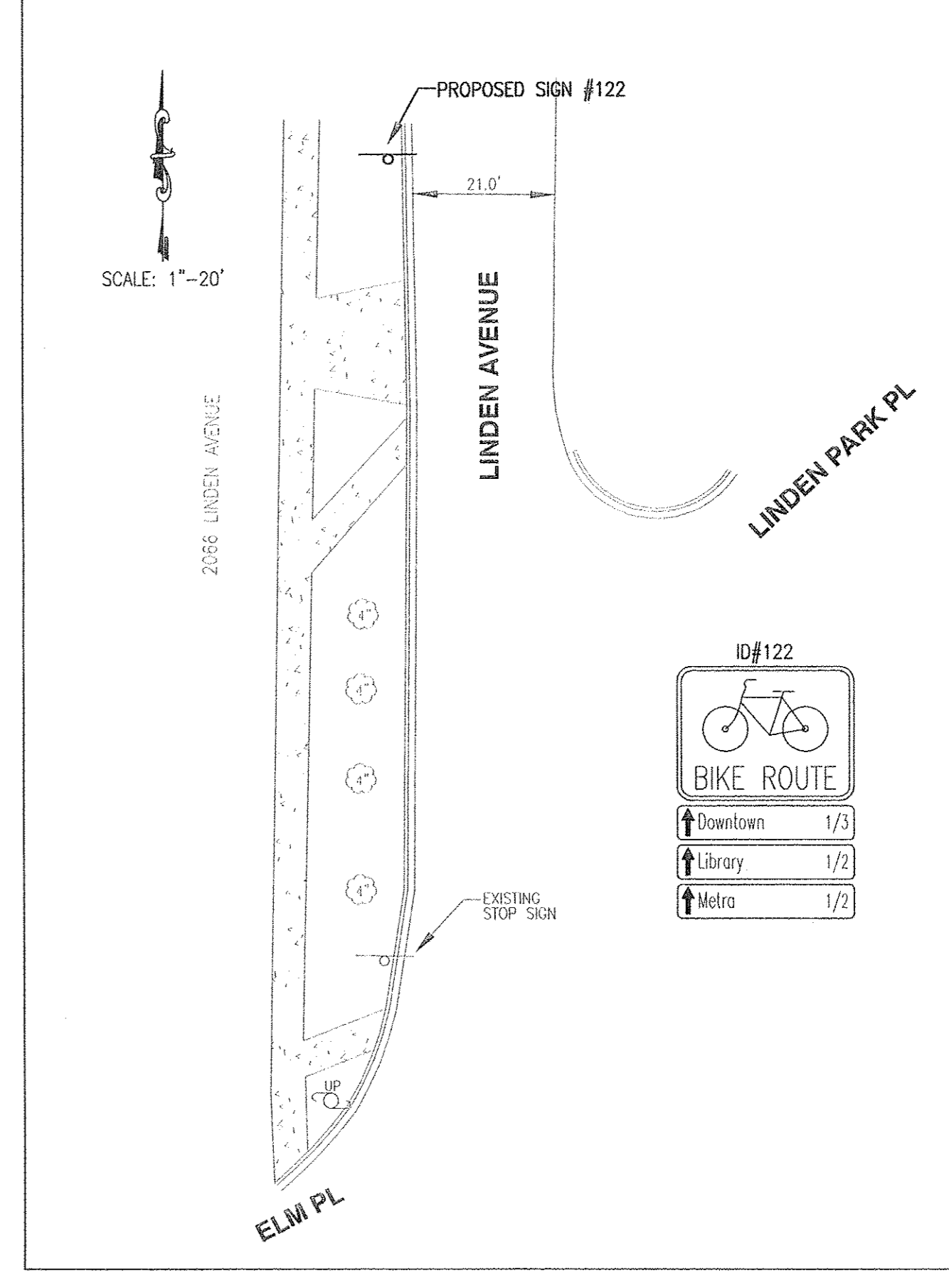
**BICYCLE ROUTE SIGNAGE  
ID#120**



**BICYCLE ROUTE SIGNAGE  
ID#121**

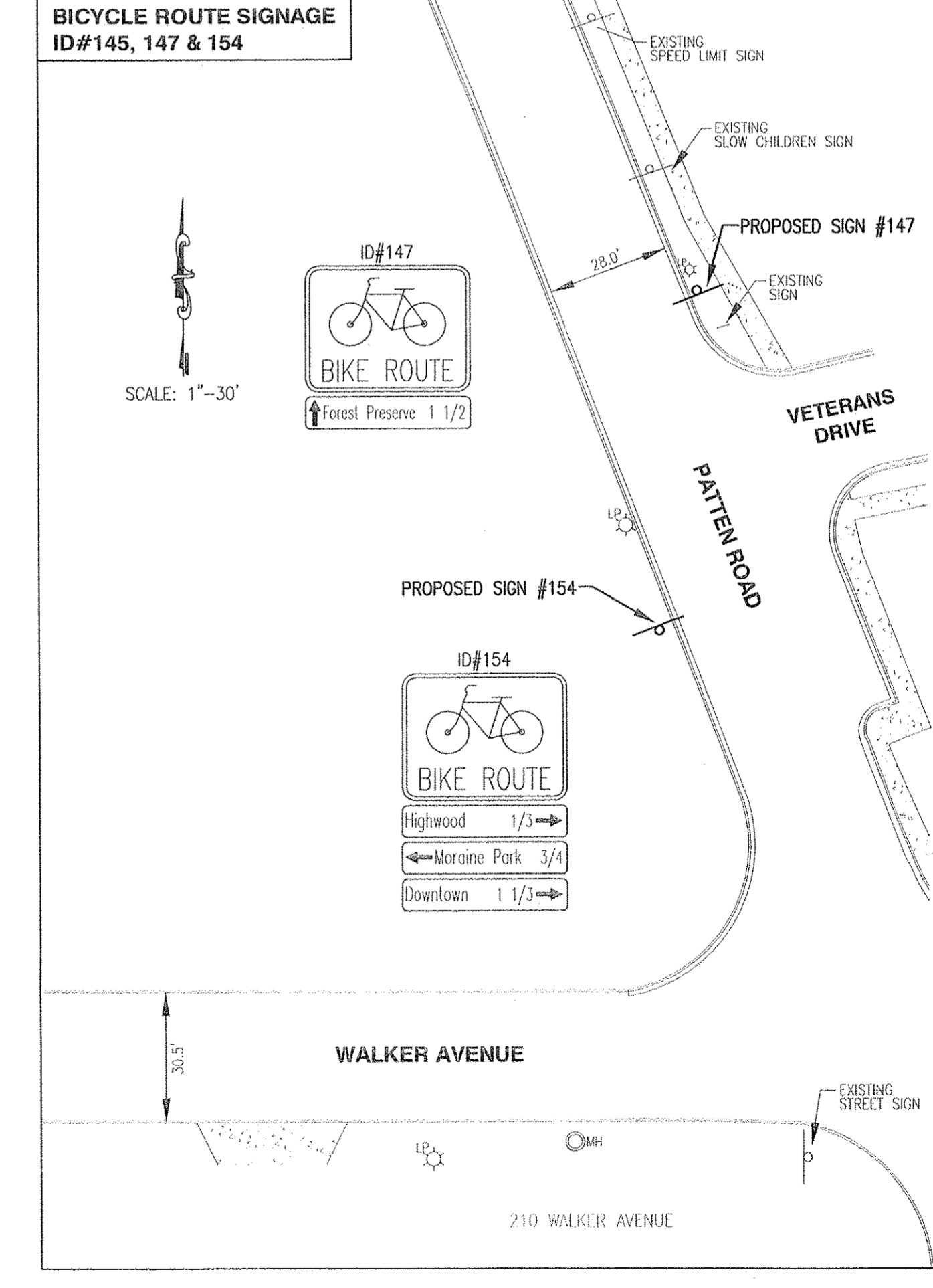
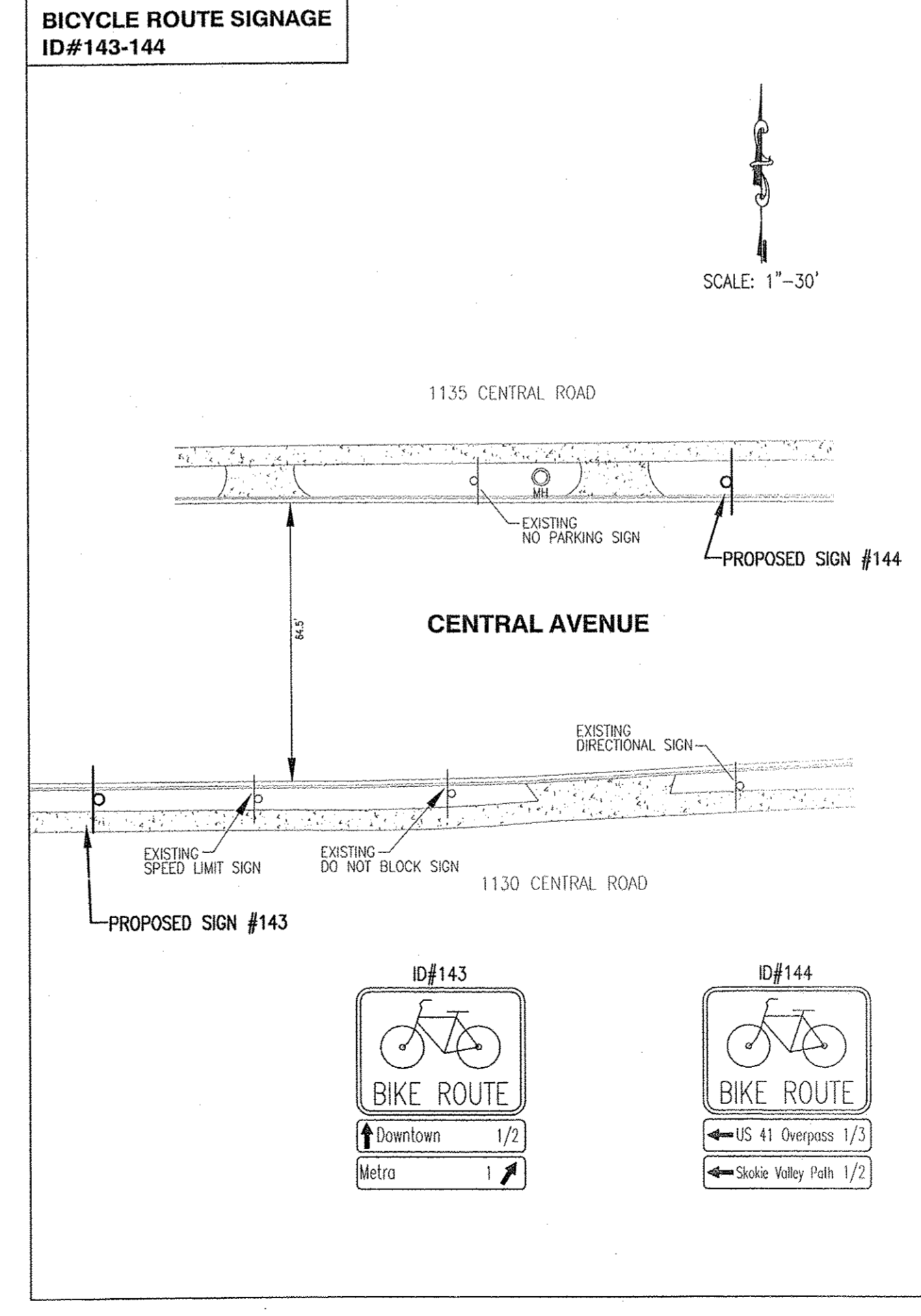
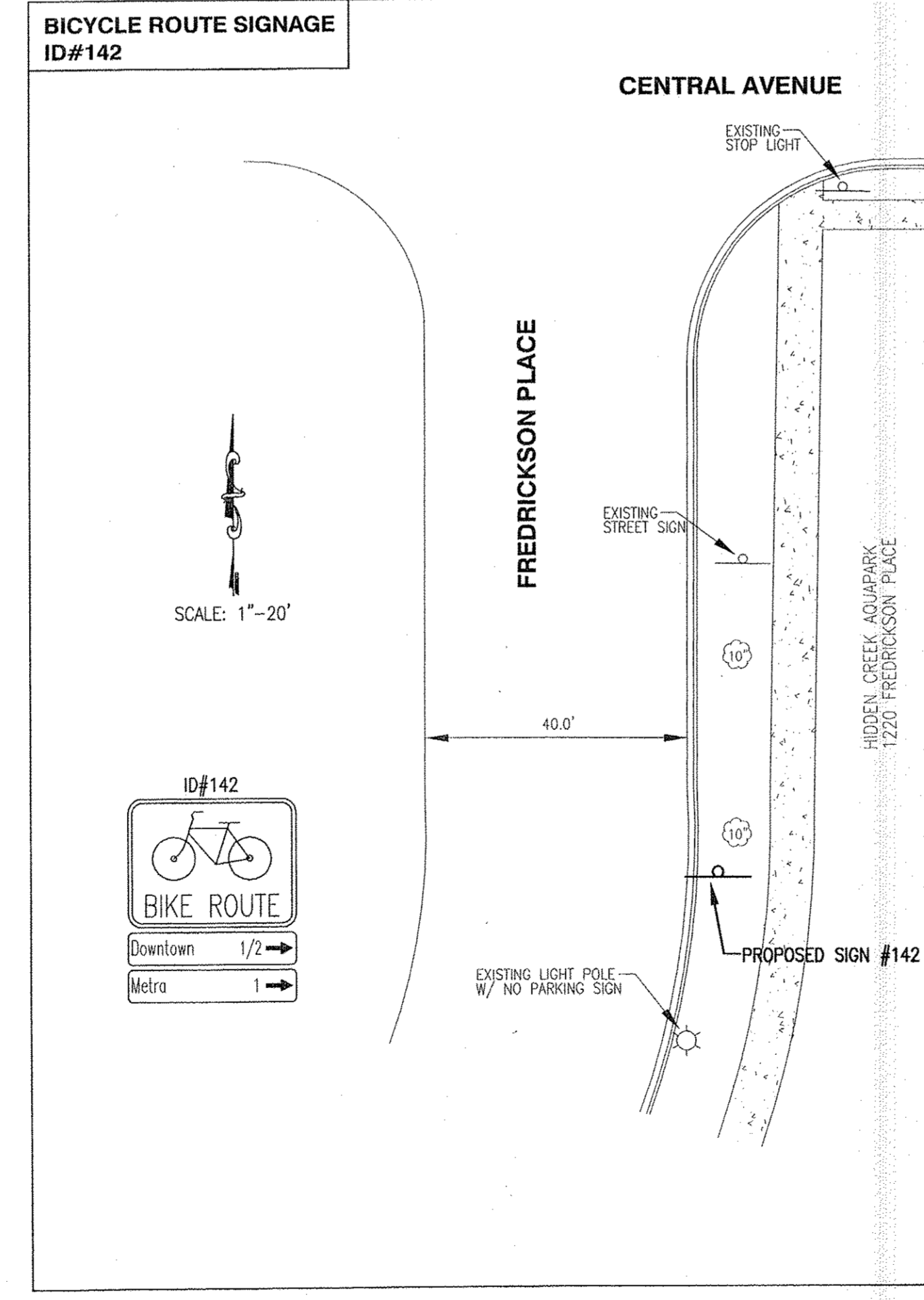
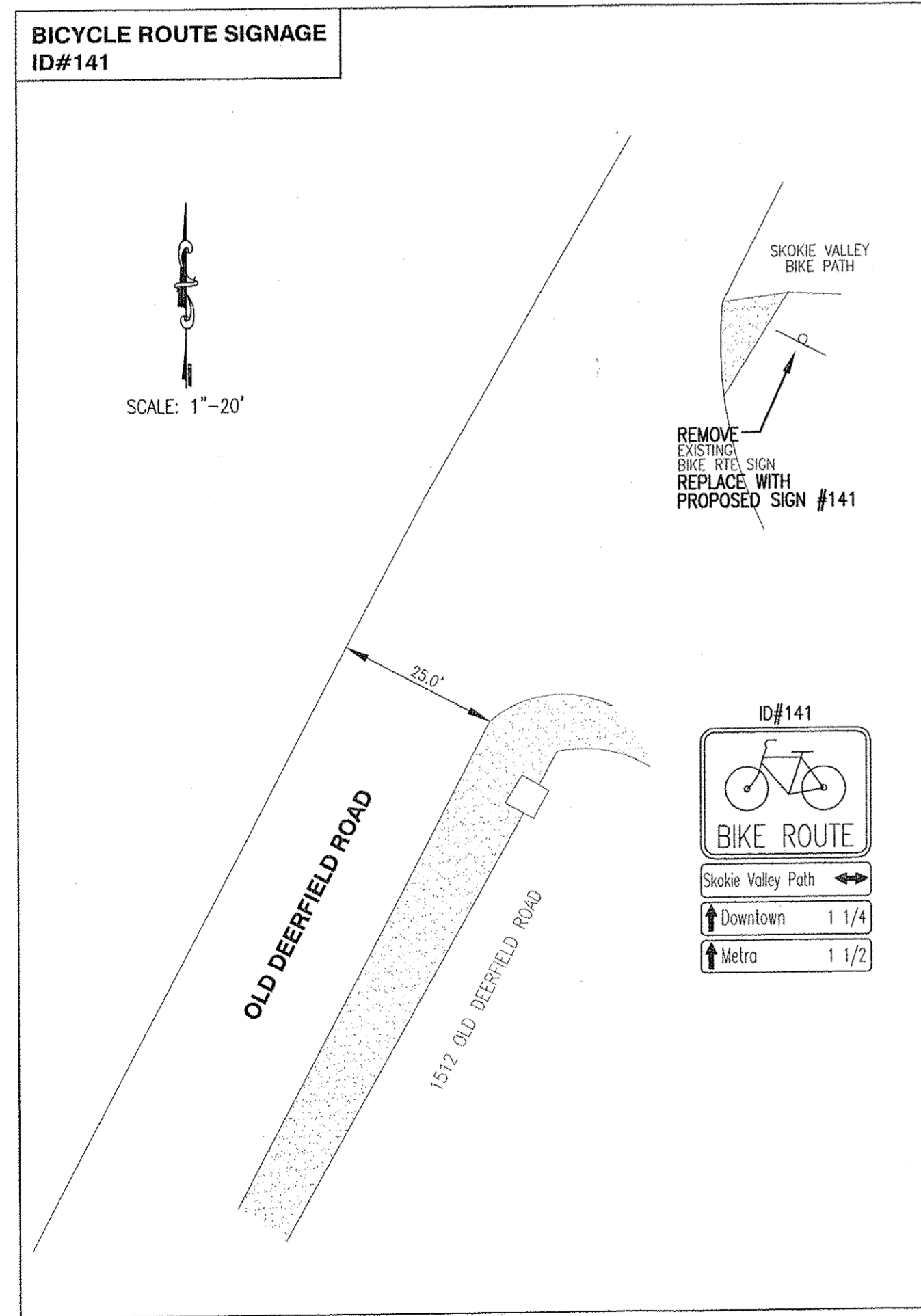
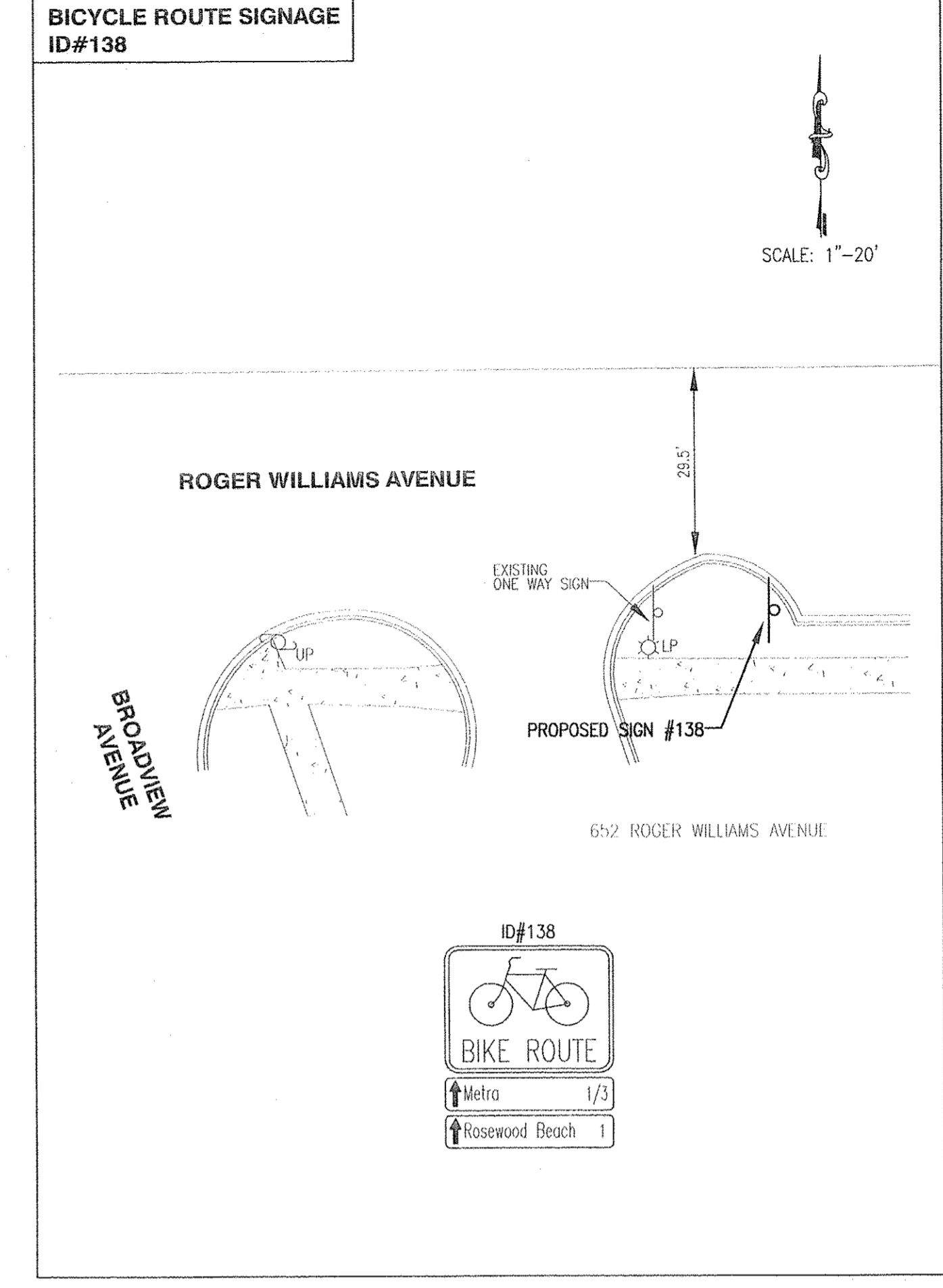
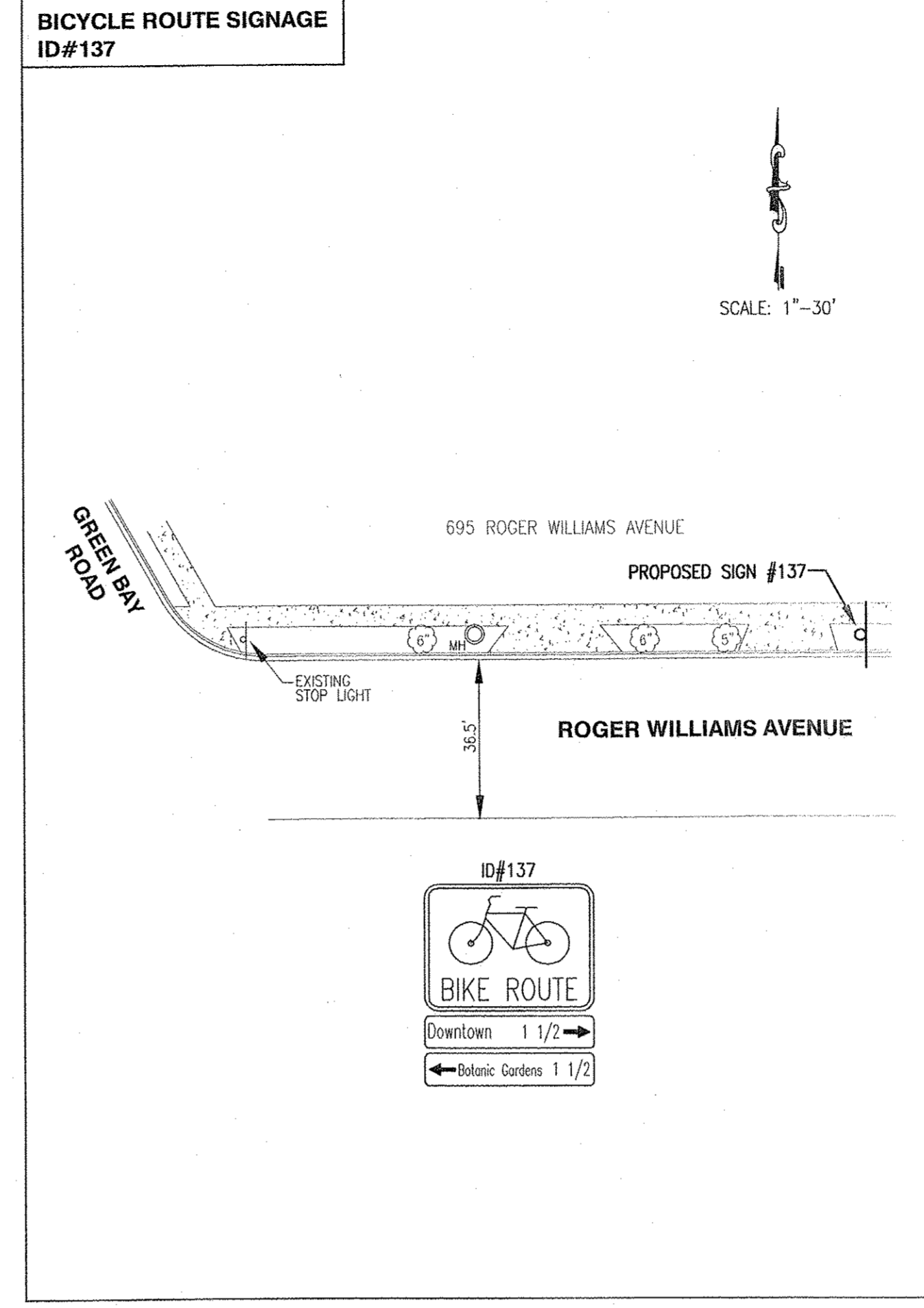
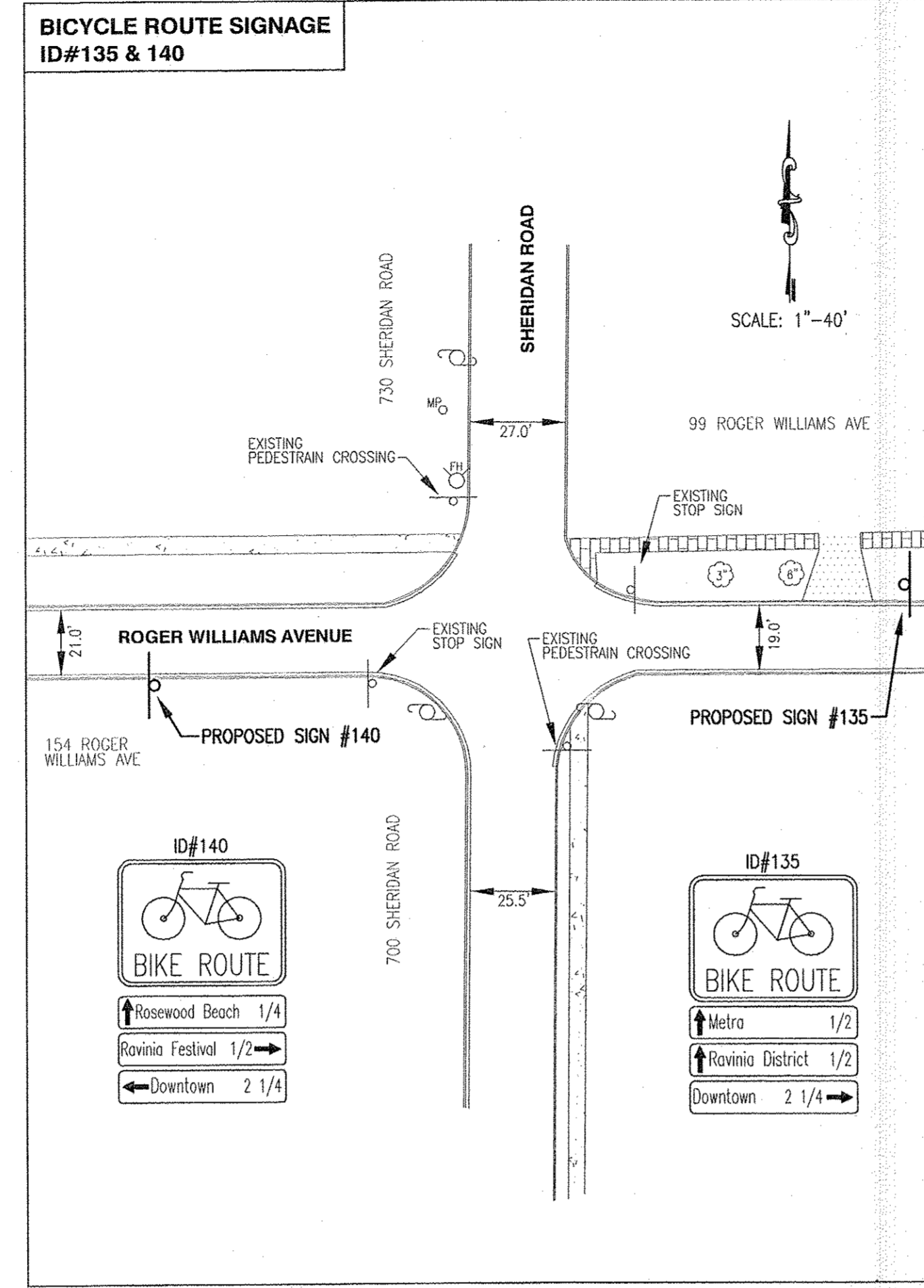
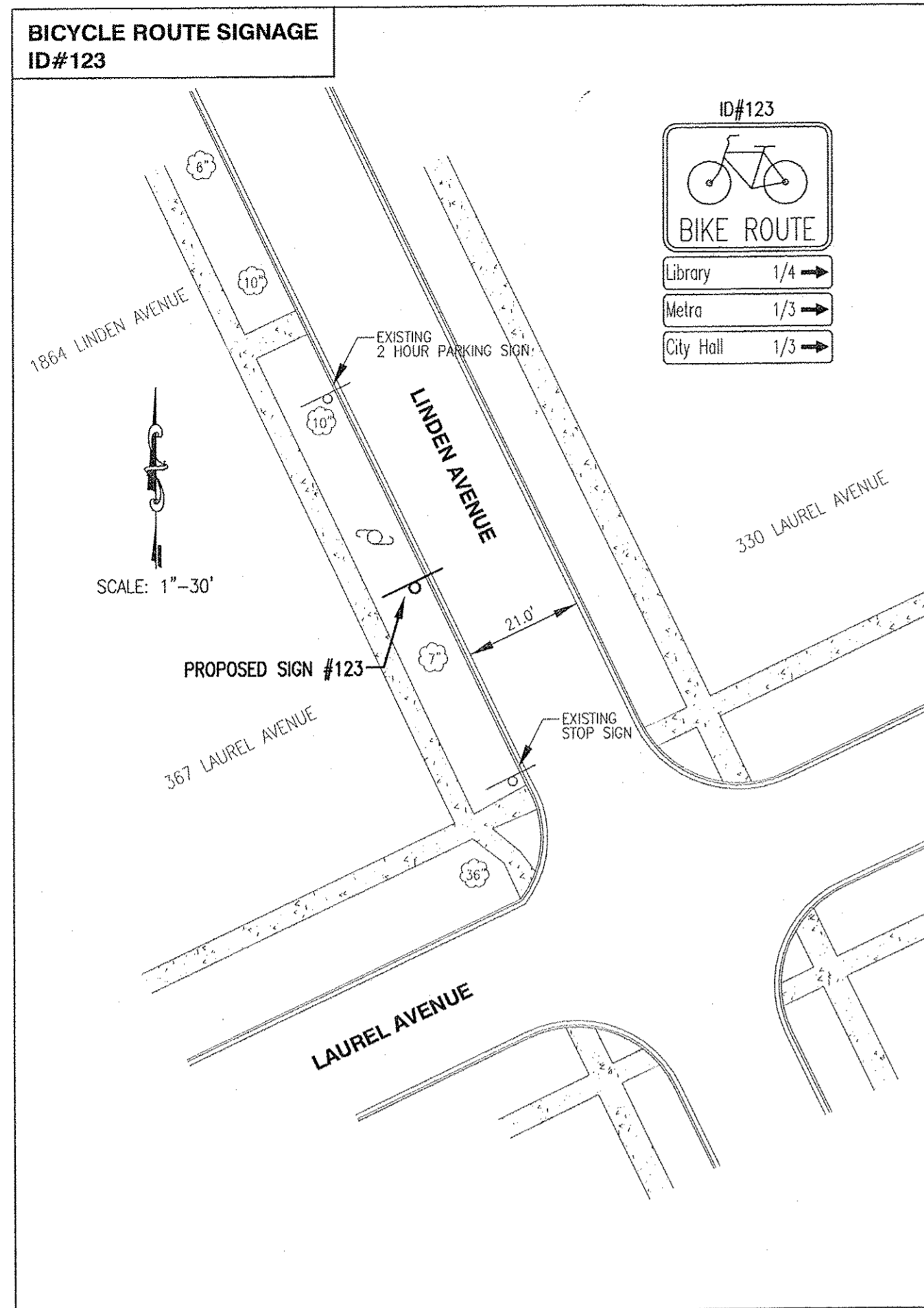


**BICYCLE ROUTE SIGNAGE  
ID#122**



USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	23
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		



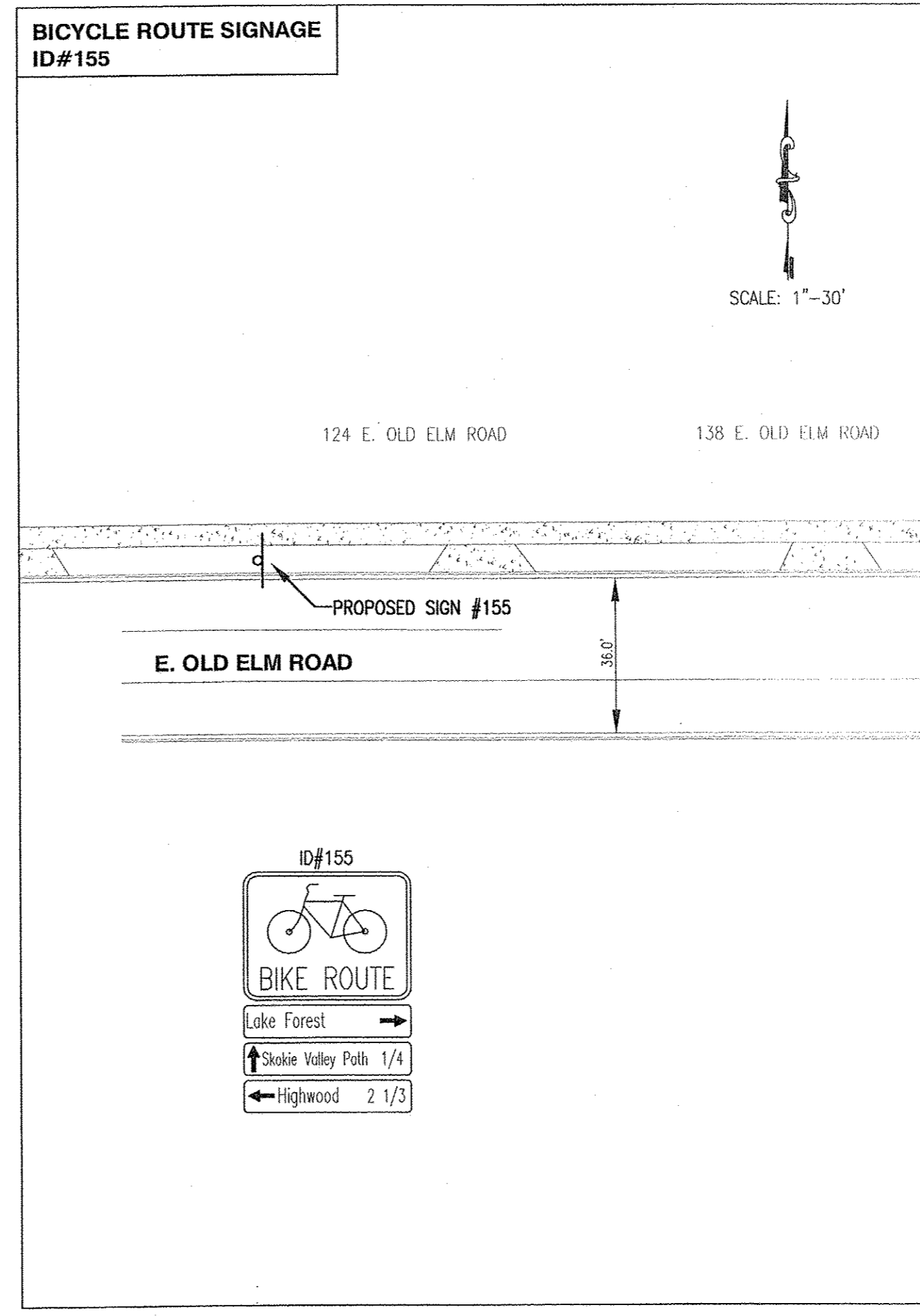
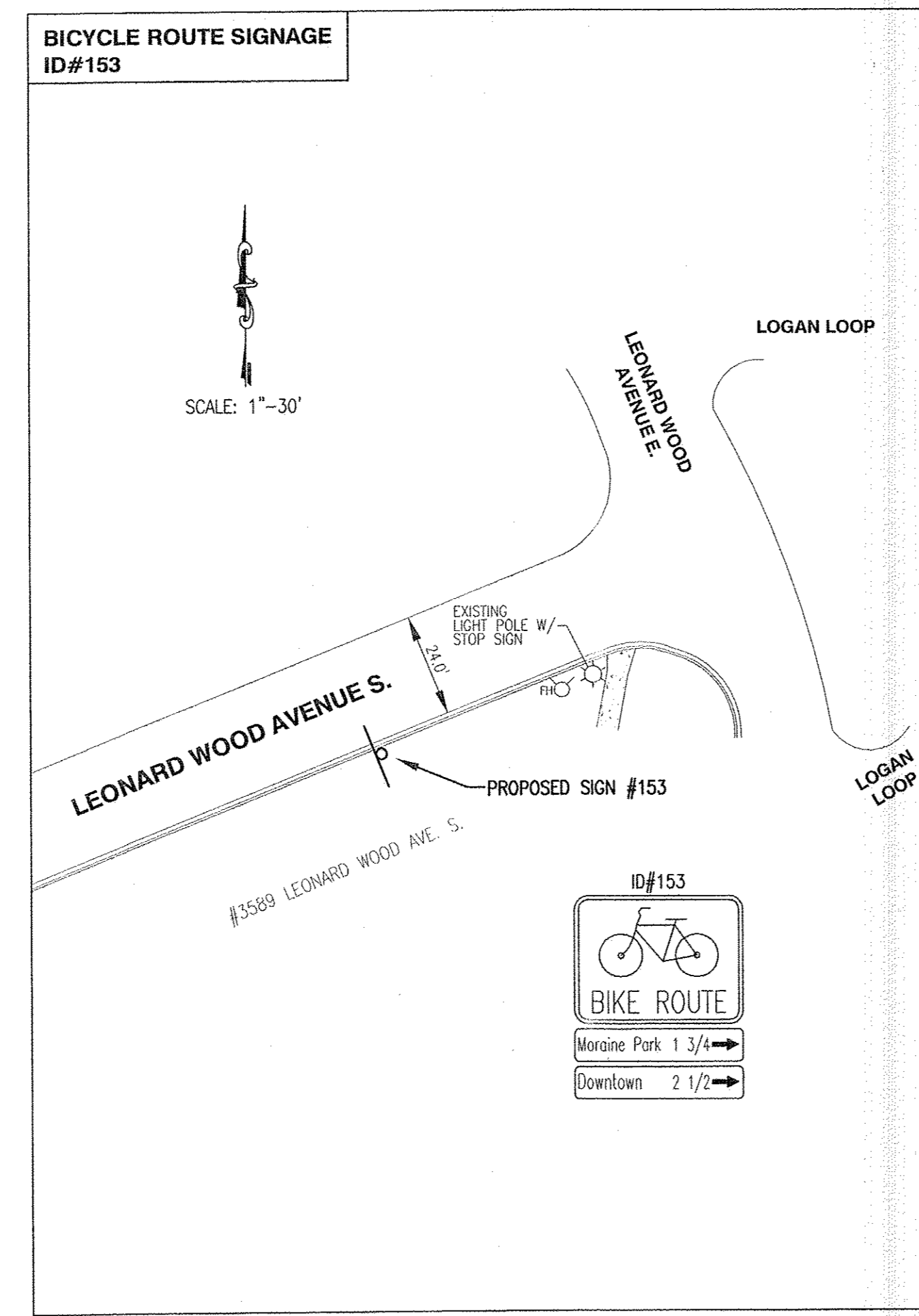
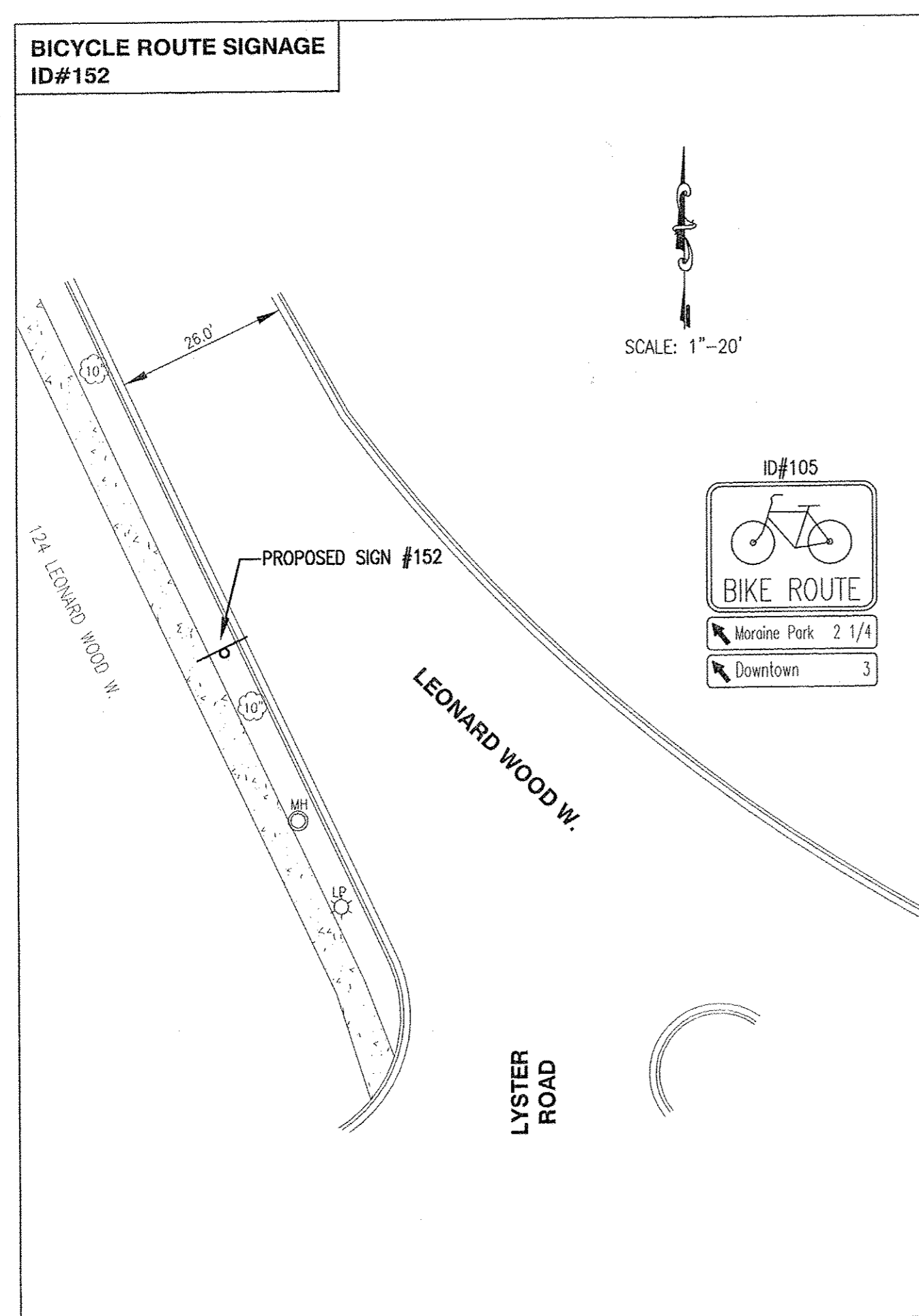
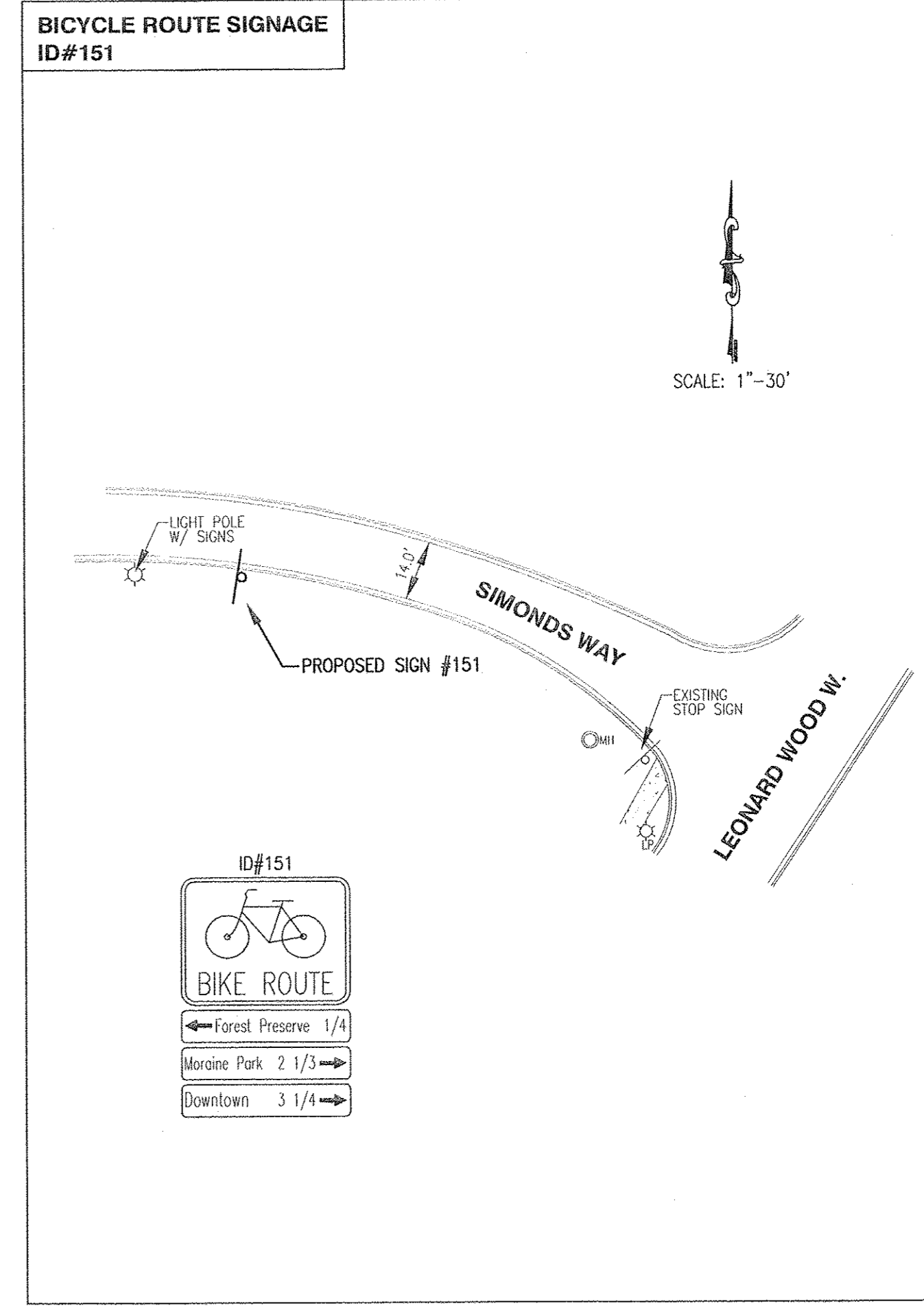
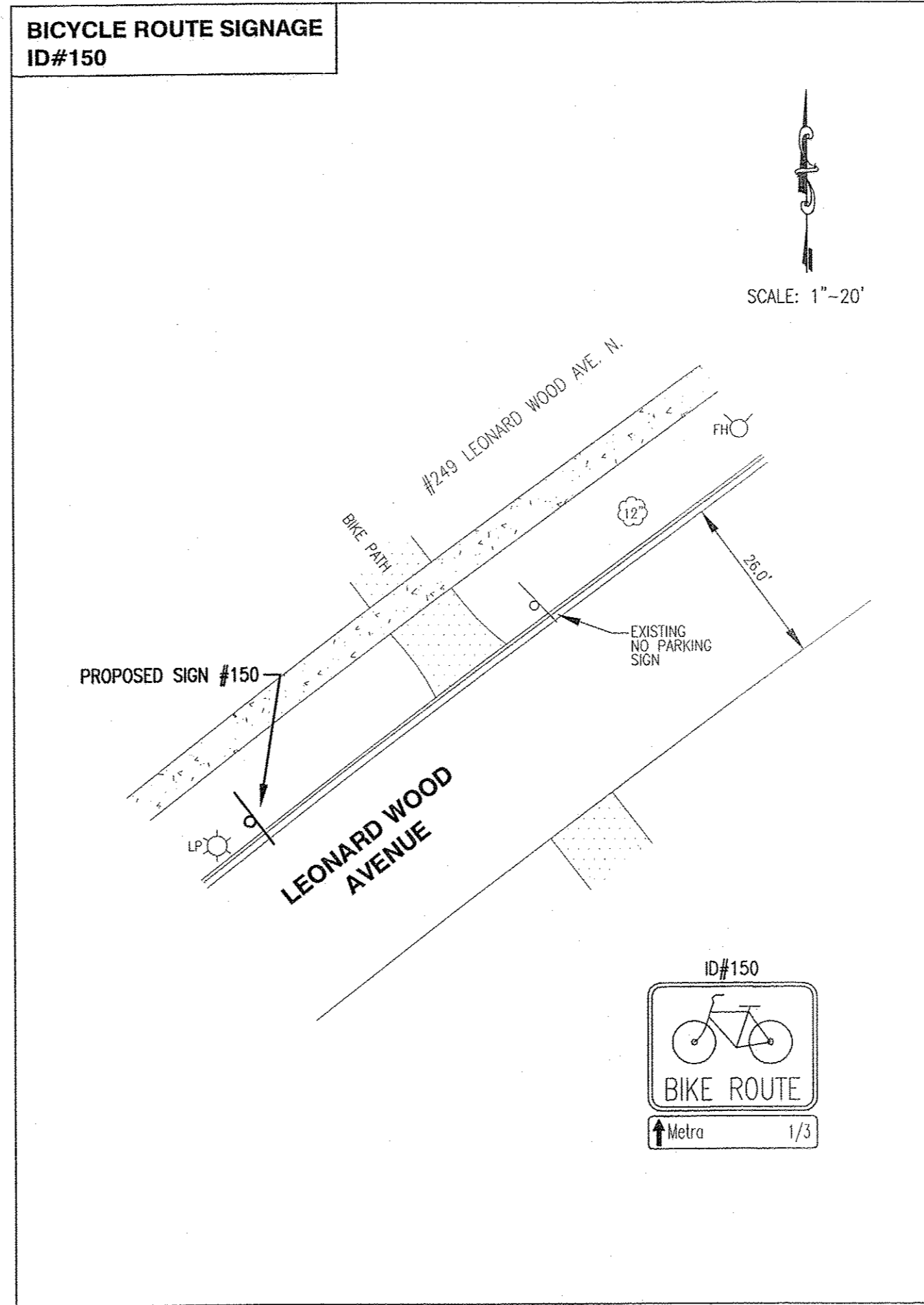
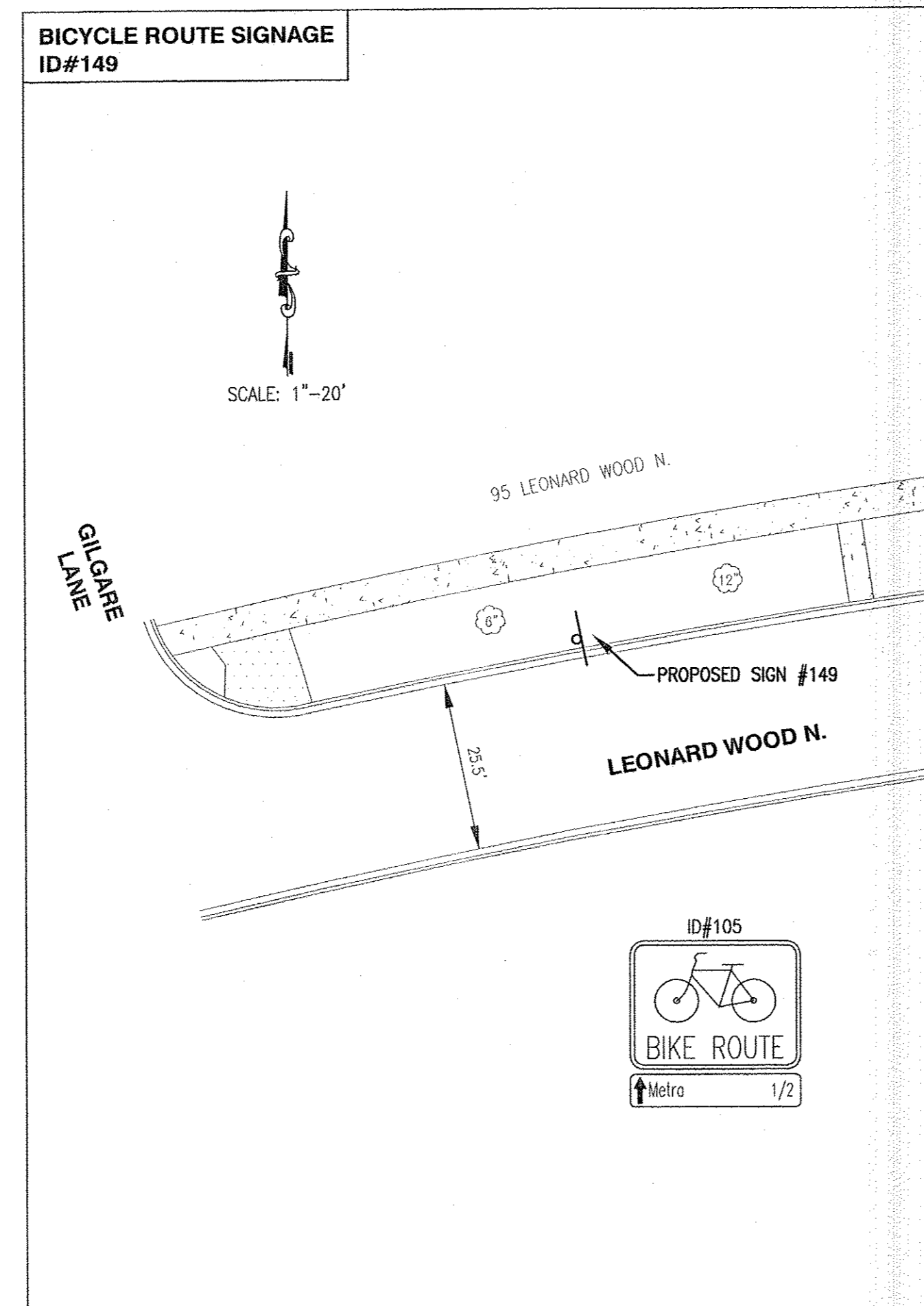
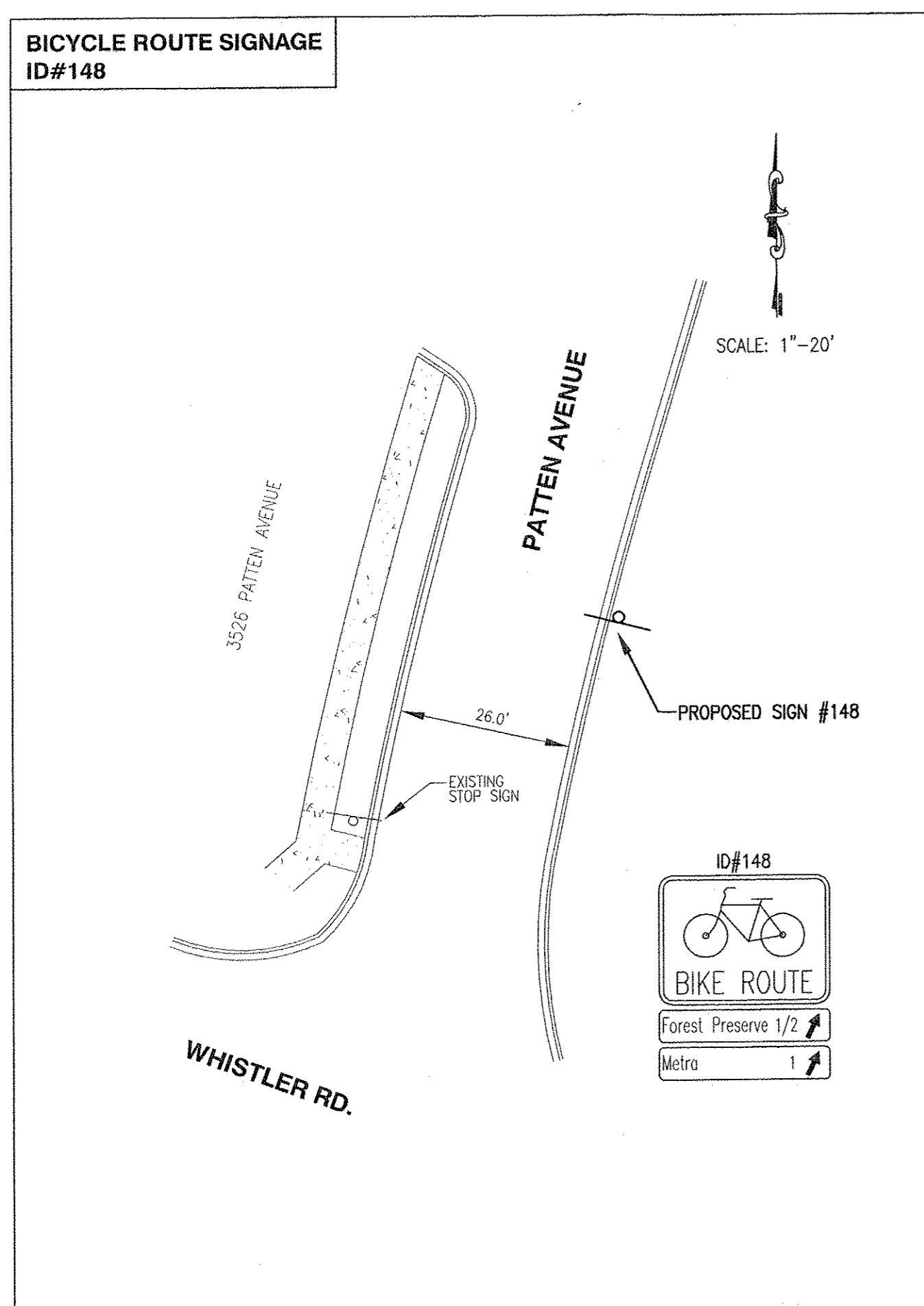
USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

**BICYCLE ROUTE SIGNAGE DETAILS**

SCALE: N/A	SHEET NO. 24 OF 30 SHEETS	STA.	STA.
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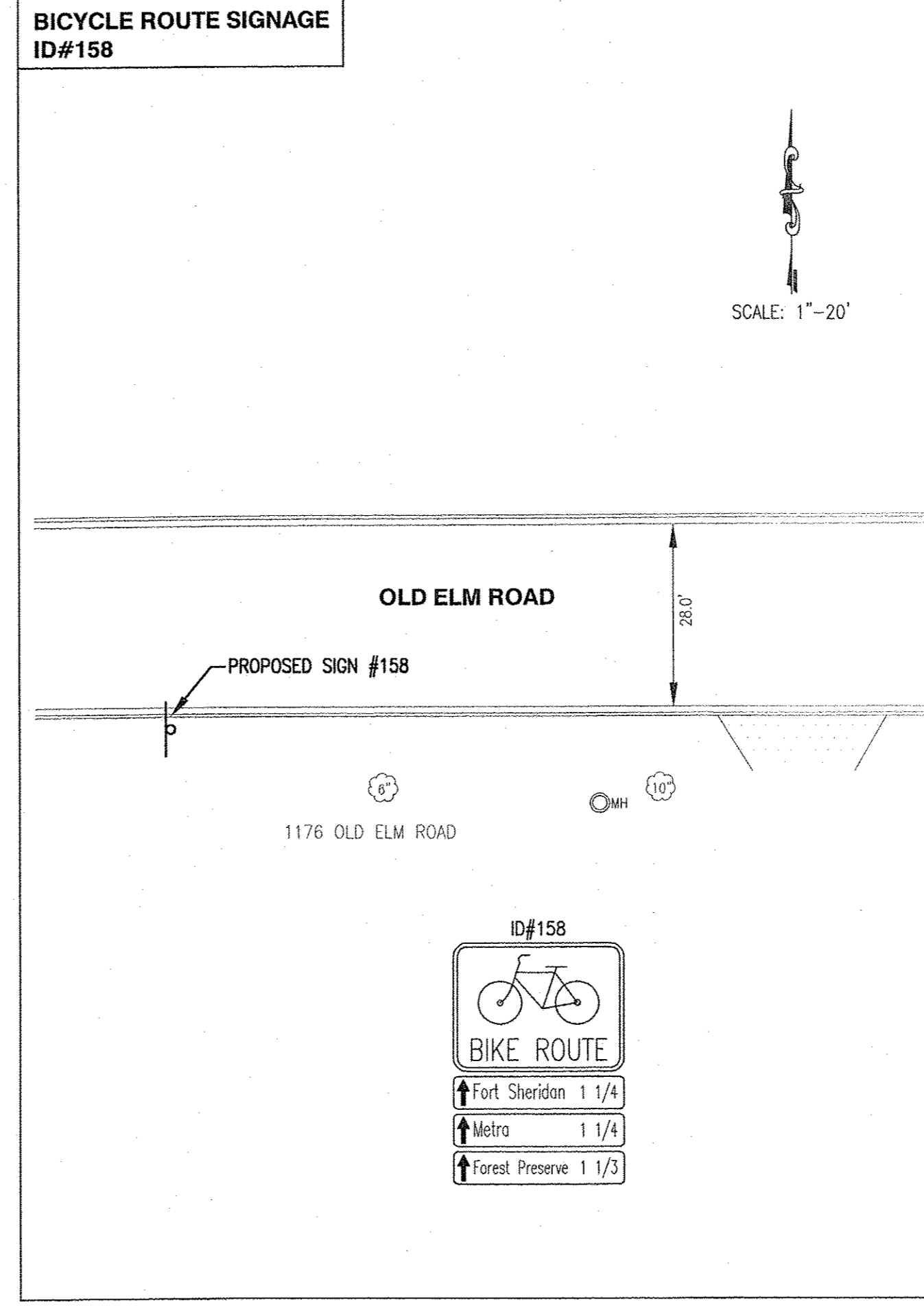
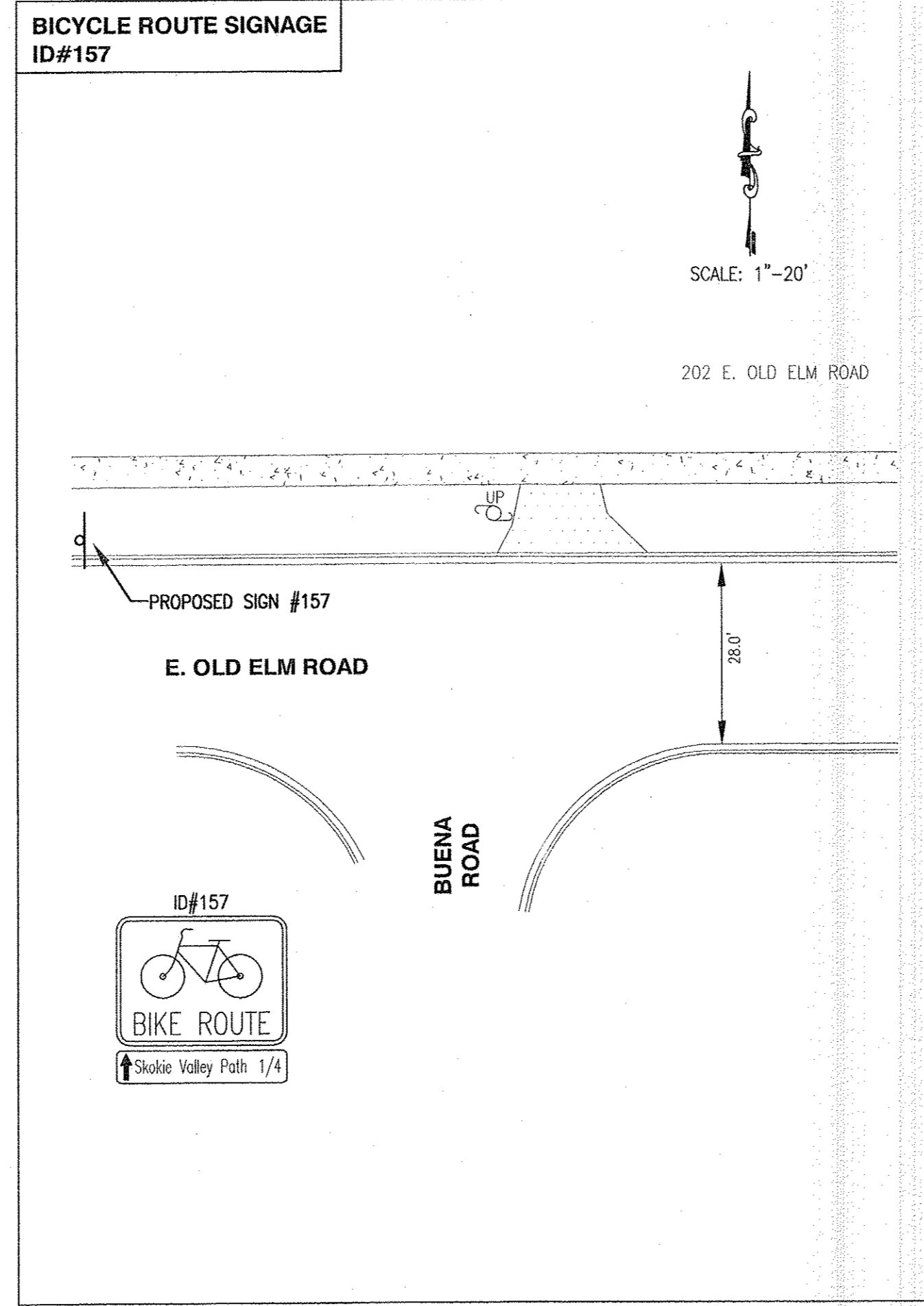
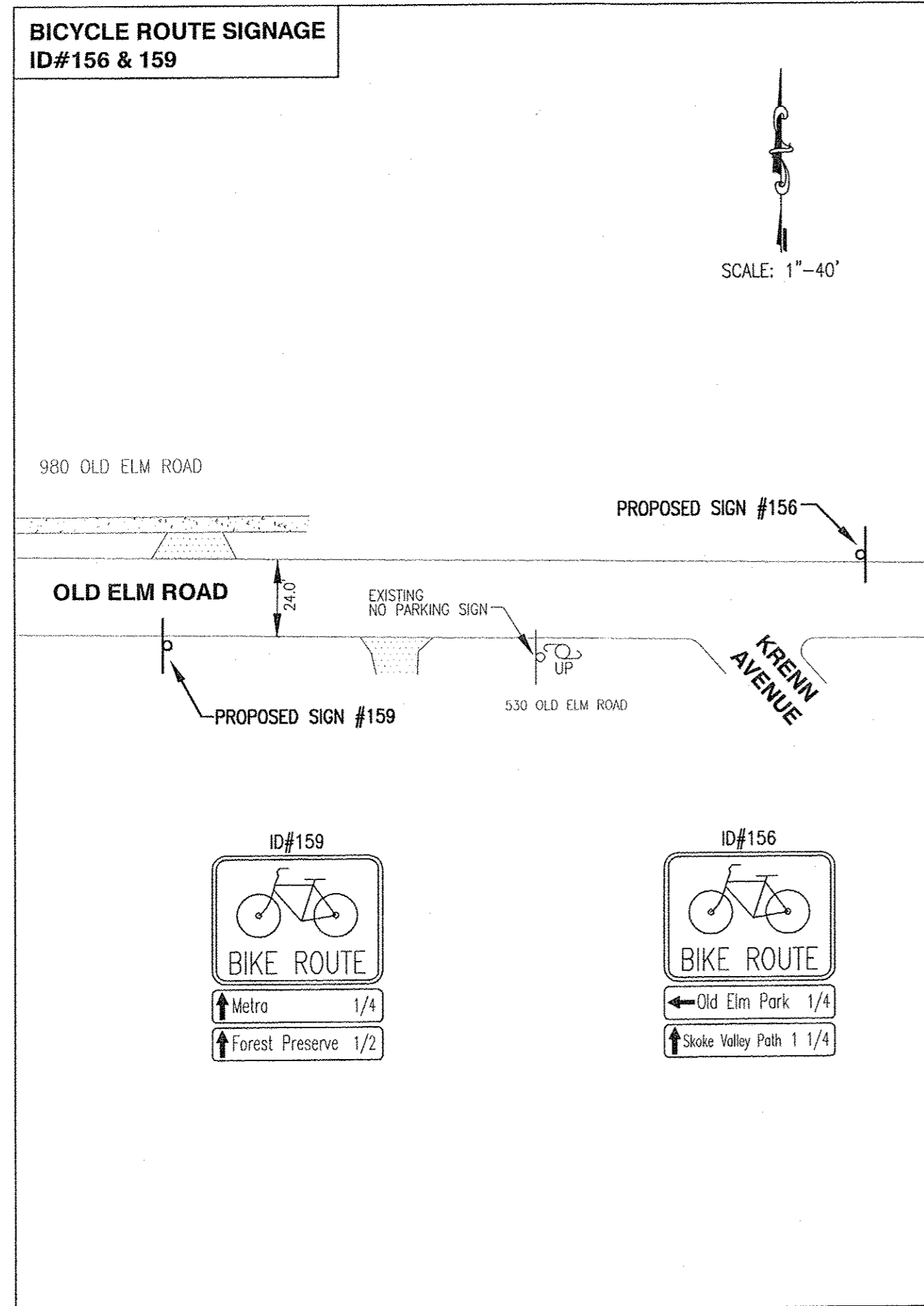
SECTION 15-00124-00-BT	COUNTY LAKE	TOTAL SHEETS 30	SHEET NO. 24
FED. ROAD DIST. NO. -	CONTRACT NO. 61CB8		
ILLINOIS	FEDERAL AID PROJECT		





USER NAME:	DESIGNED:	REVISED:
DRAWN:	REVISOR:	
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	25
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		



**EXISTING INLET GRATES TO BE REMOVED AND REPLACED WITH A BICYCLE SAFE GRATE:**

- \* 861 BARBERRY ROAD
- \* BARBERRY ROAD AT RIDGE ROAD
- \* RED OAK LANE AT LAKE COOK ROAD
- \* 50 RED OAK LANE
- \* RED OAK LANE AT RED OAK SCHOOL (2)
- \* RED OAK LANE AT STRATFORD ROAD
- \* RIDGE ROAD AT OLD DEERFIELD ROAD (2)
- \* 900 RIDGE ROAD
- \* RIDGE ROAD AT GROVE AVENUE
- \* 972 RIDGE ROAD
- \* 996 RIDGE ROAD
- \* RIDGE ROAD AT DEVONSHIRE COURT (2)
- \* 1038 RIDGE ROAD (2)
- \* 677 ROGER WILLIAMS AVENUE
- \* CENTRAL AVENUE AT DEERFIELD ROAD
- \* 905 ST. JOHNS AVENUE
- \* ST. JOHNS AVENUE AT WOODLAND ROAD.

**NOTE:**  
ALL INLET GRATES ARE TO BE DELIVERED, BY THE CONTRACTOR, TO THE PUBLIC WORKS FACILITY OF THE CITY, LOCATED AT 1150 HALF DAY ROAD (IL. RT. 22) AT THE TIME OF REMOVAL.

**EXISTING FRAME AND GRATE TO BE REMOVED, SALVAGED AND REPLACED:**

- \* BARBERRY ROAD AT RIDGE ROAD
- \* SUNSET ROAD AT CENTRAL AVENUE
- \* CENTRAL AVENUE AT DEERFIELD ROAD
- \* ST. JOHNS AVENUE AT BEECH STREET
- \* 1000 BOB-O-LINK ROAD
- \* PATTEN ROAD AT McNAIR STREET (2)

**NOTE:**  
1.) ALL INLET GRATES ARE TO BE DELIVERED, BY THE CONTRACTOR, TO THE PUBLIC WORKS FACILITY OF THE CITY, LOCATED AT 1150 HALF DAY ROAD (IL. RT. 22) AT THE TIME OF REMOVAL.  
2.) SEE SHEET 2

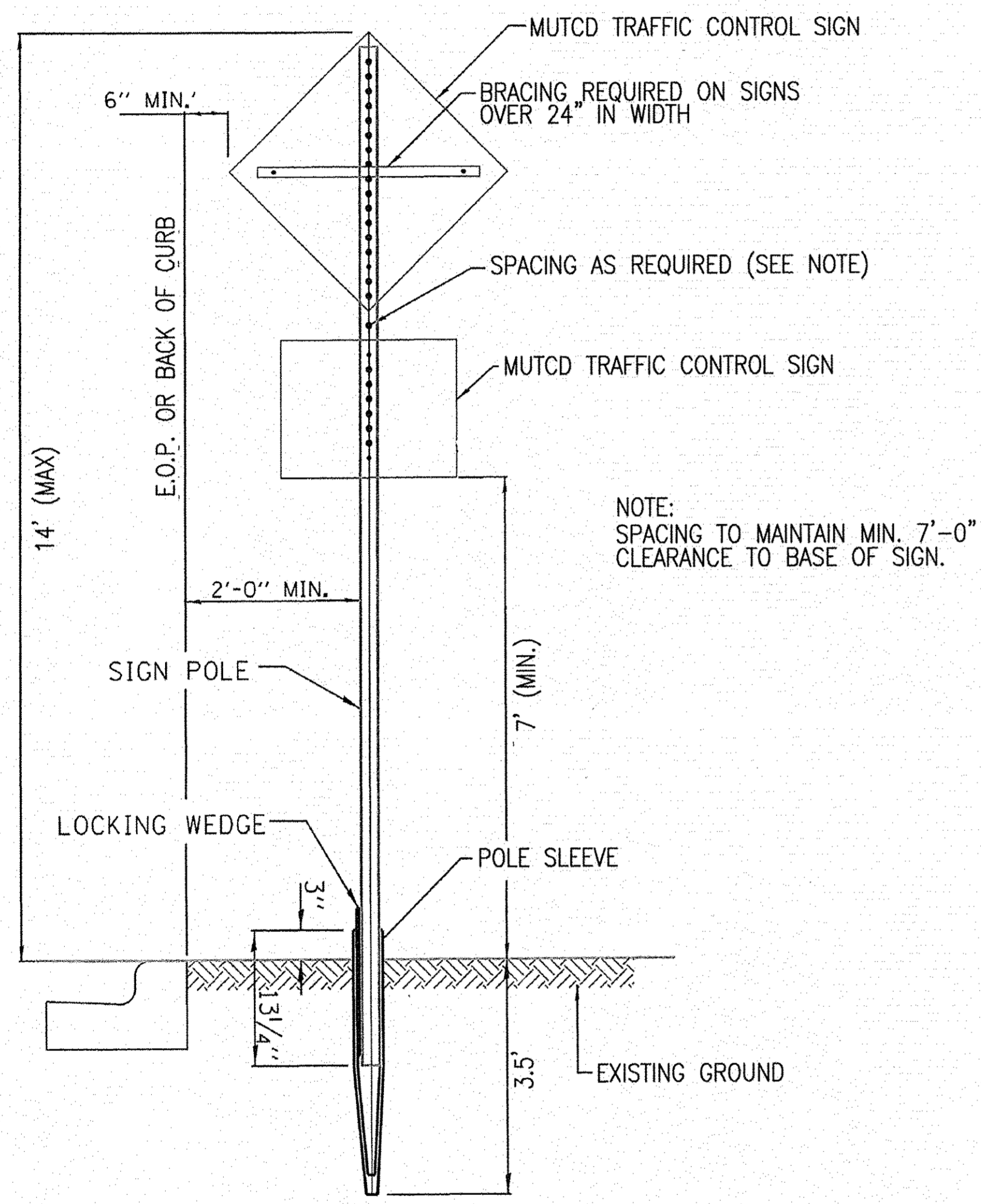
**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ NDES
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50	4% @ 50 GYR

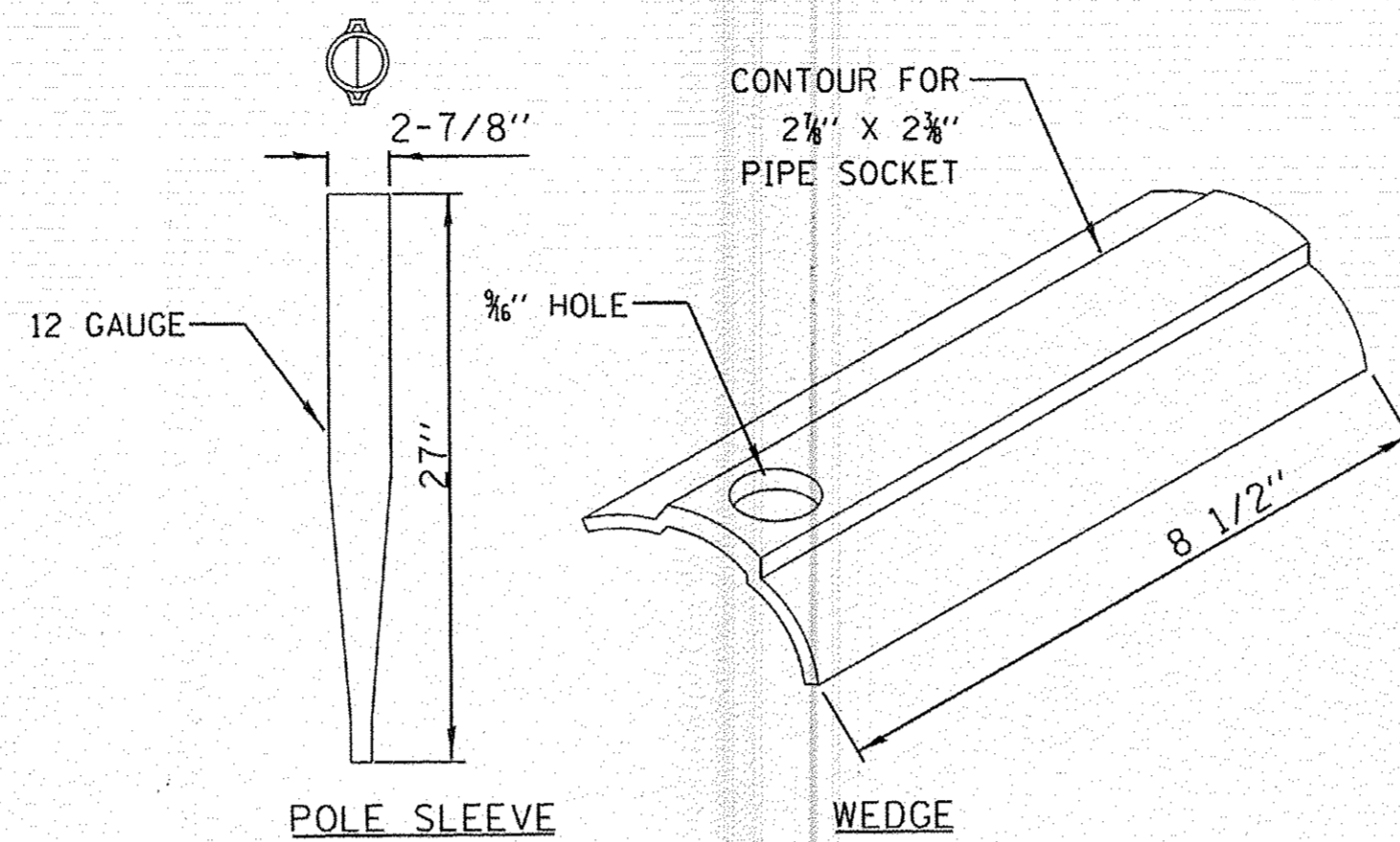
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 - 22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 - 22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

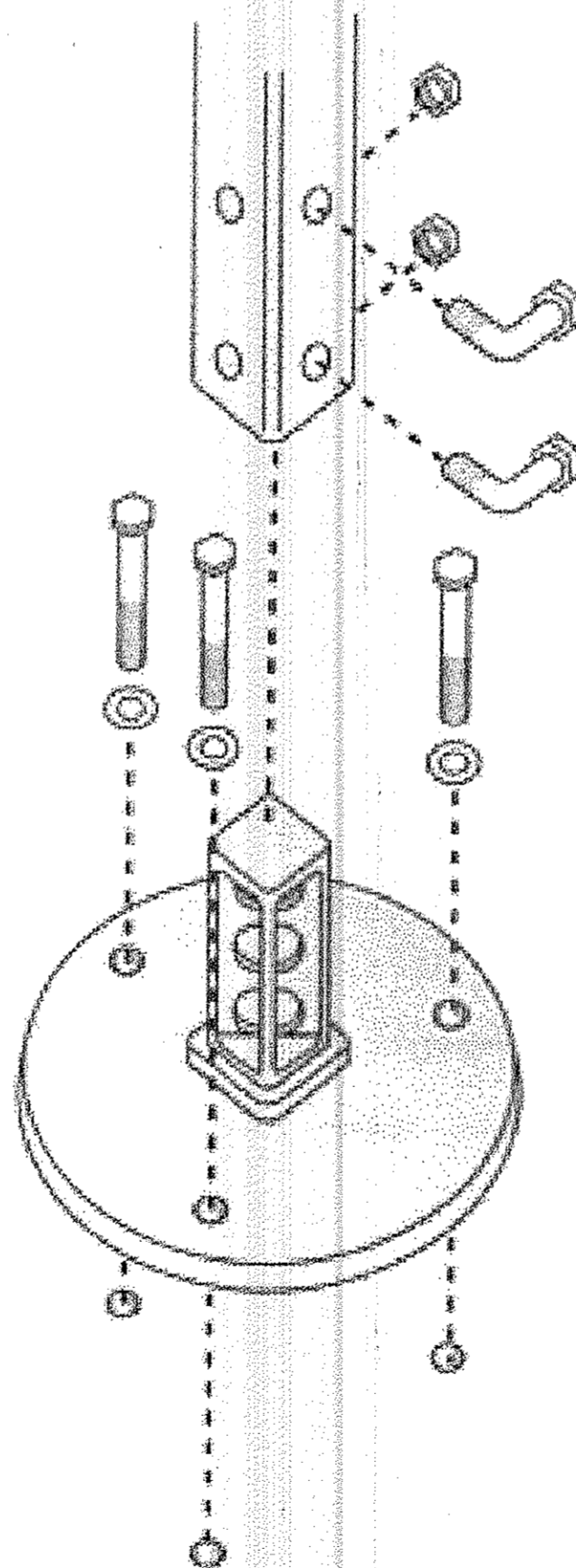
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	26
FED. ROAD DIST. NO. -	CONTRACT NO. 61CBB		
ILLINOIS	FEDERAL AID PROJECT		



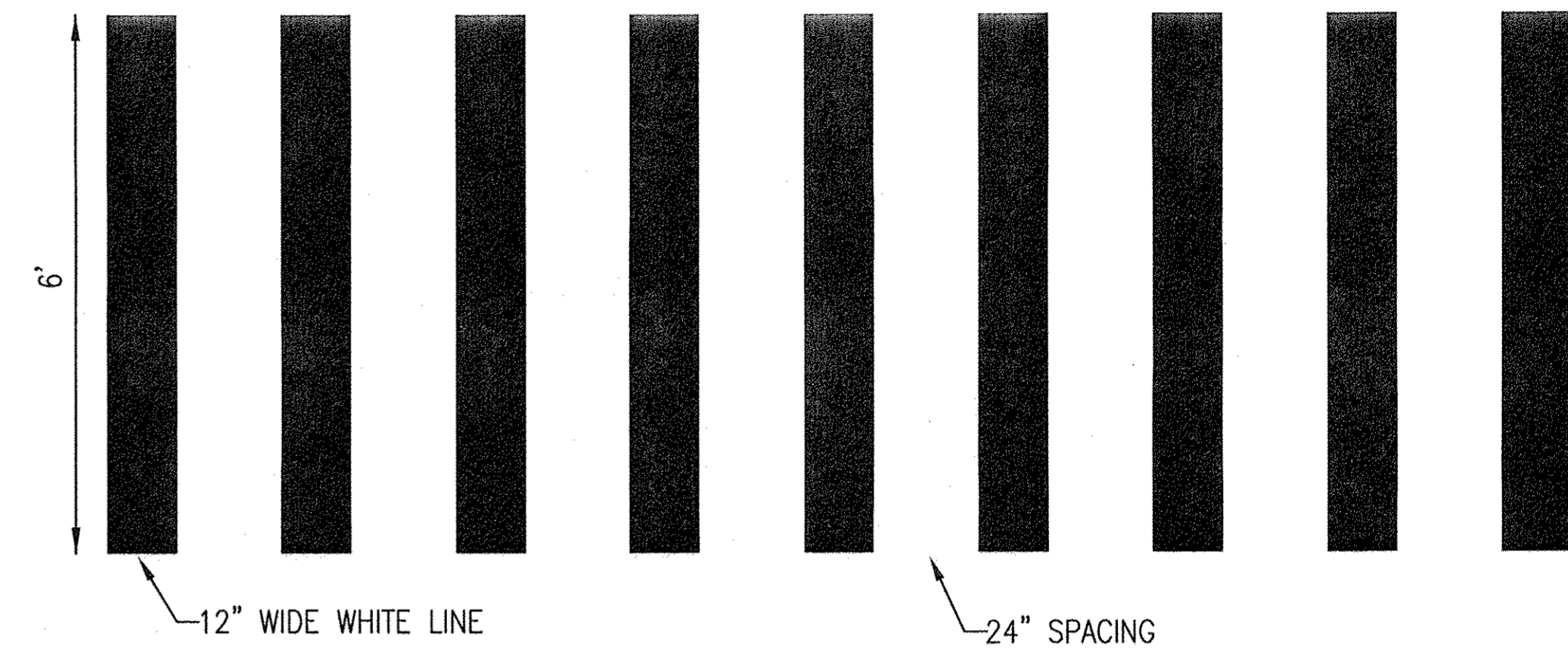
**SIGN INSTALLATION**  
NOT TO SCALE



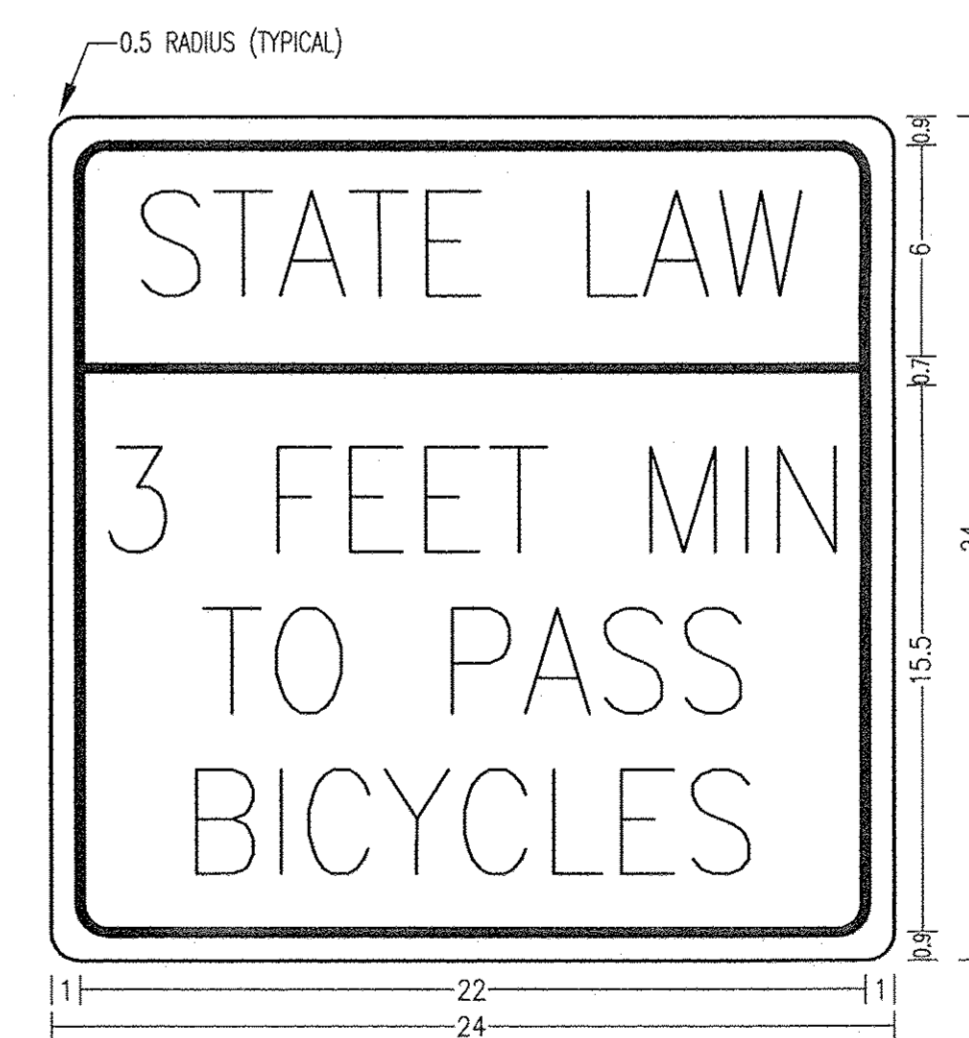
**PIPE SOCKET AND WEDGE DETAIL**  
NOT TO SCALE



**ANCHOR BOLT INSTALLATION DETAIL**  
NOT TO SCALE



**CONTINENTAL CROSSWALK DETAIL**  
NOT TO SCALE

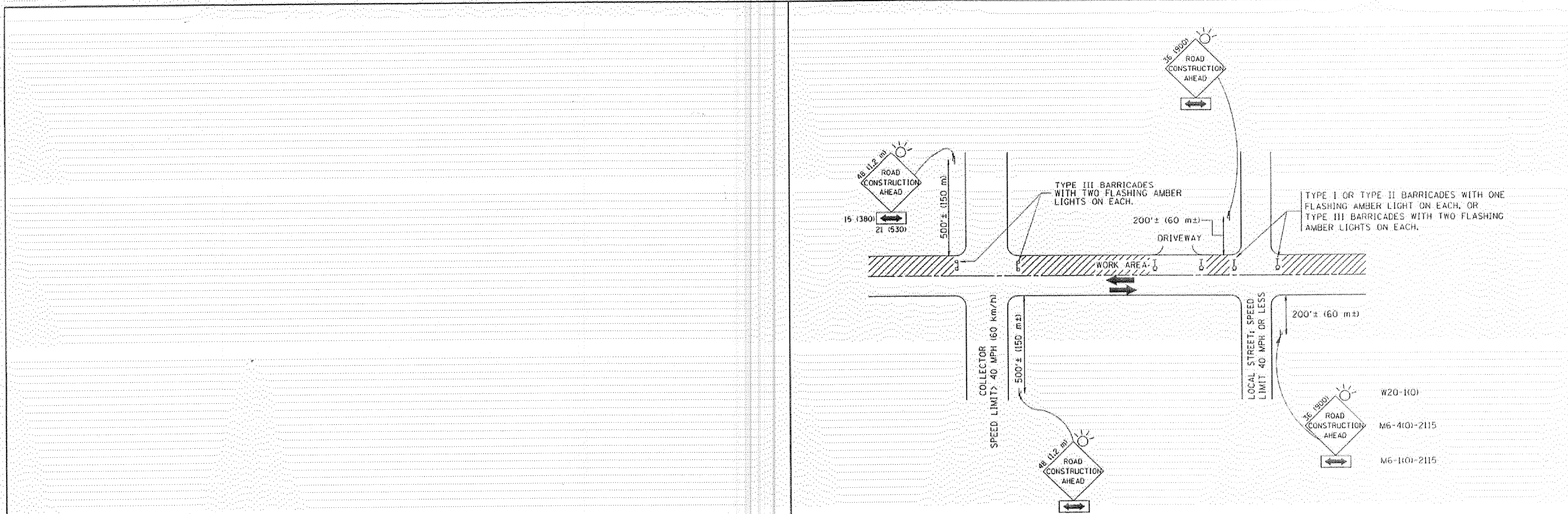


**STATE LAW BICYCLE SIGN**  
NOT TO SCALE

- NOTES:
- \*HIGHWAY GOTHIC
  - \*SERIES C
  - \*LETTERS - 3" HIGH, WIDTH TO BE PROPORTIONATE TO HEIGHT
  - \*ALL DIMENSIONS ARE INCHES
  - \*ROUNDED RECTANGLE - 1/2 INCH RADIUS
  - \*BLACK LETTERS ON WHITE BACKGROUND FOR LOWER THREE (3) LINES OF SIGN TEXT
  - \*BLACK LETTERS ON FLOURESCENT BACKGROUND FOR "STATE LAW" PORTION

USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	DRAWN:	REVISED:
PLOT DATE:	CHECKED:	REVISED:
	DATE:	REVISED:

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	27
FED. ROAD DIST. NO. --	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		



**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

**NOTES:**

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME: W:\dvs\22c31\1\1\1\1\1.dwg	USER NAME: gqglanab	DESIGNED: LHA	REVISED: J. OBERLE 10-18-95
		DRAWN:	REVISED: A. HOUSEH 03-06-96
	PLOT SCALE: 50.000 / 1 IN.	CHECKED:	REVISED: A. HOUSEH 10-15-96
	PLOT DATE: 1/4/2028	DATE: 06-89	REVISED: T. RAMMACHER 01-06-00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

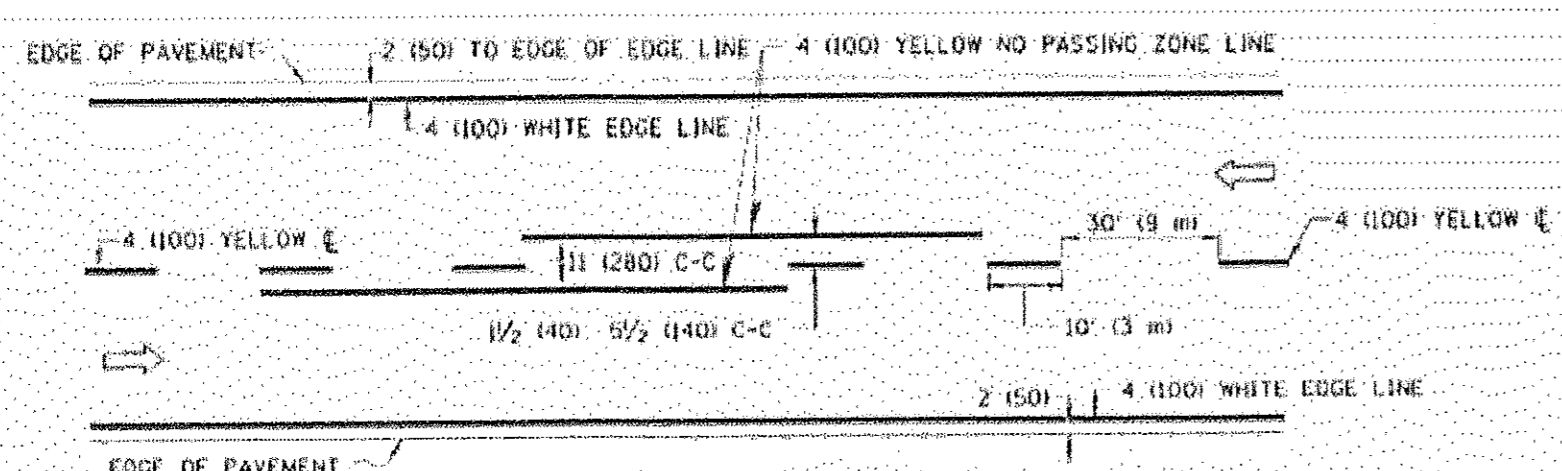
<b>TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	<b>TC-10</b>			
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO.		
		FED. AID PROJECT		

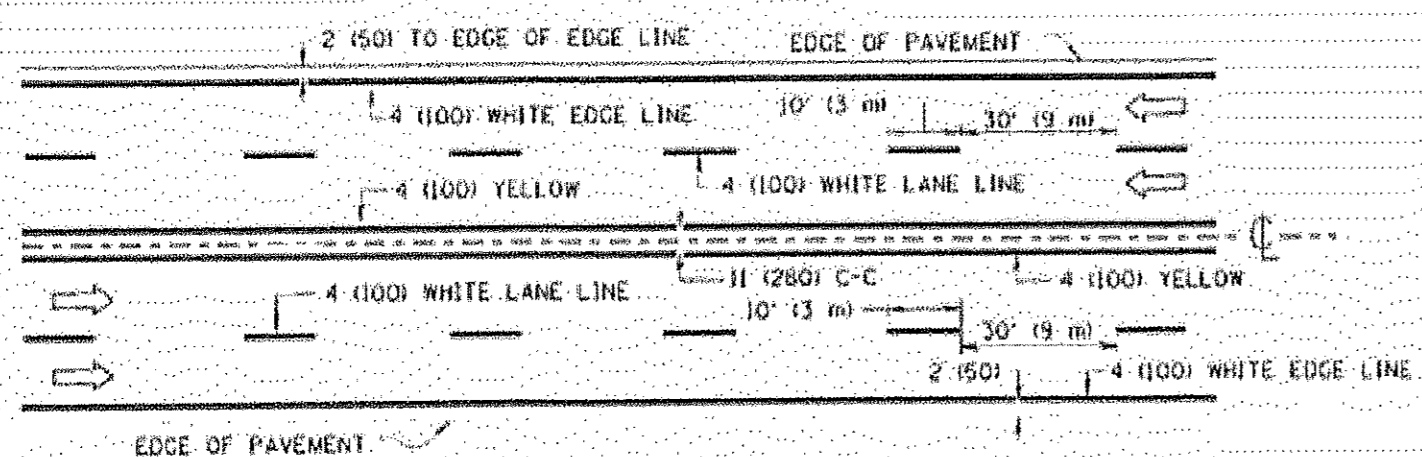
USER NAME:	DESIGNED:	REVISED:
	DRAWN:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

<b>D-1 DETAILS</b>	
SCALE: N/A	SHEET NO. 28 OF 30 SHEETS
STA. TO STA.	

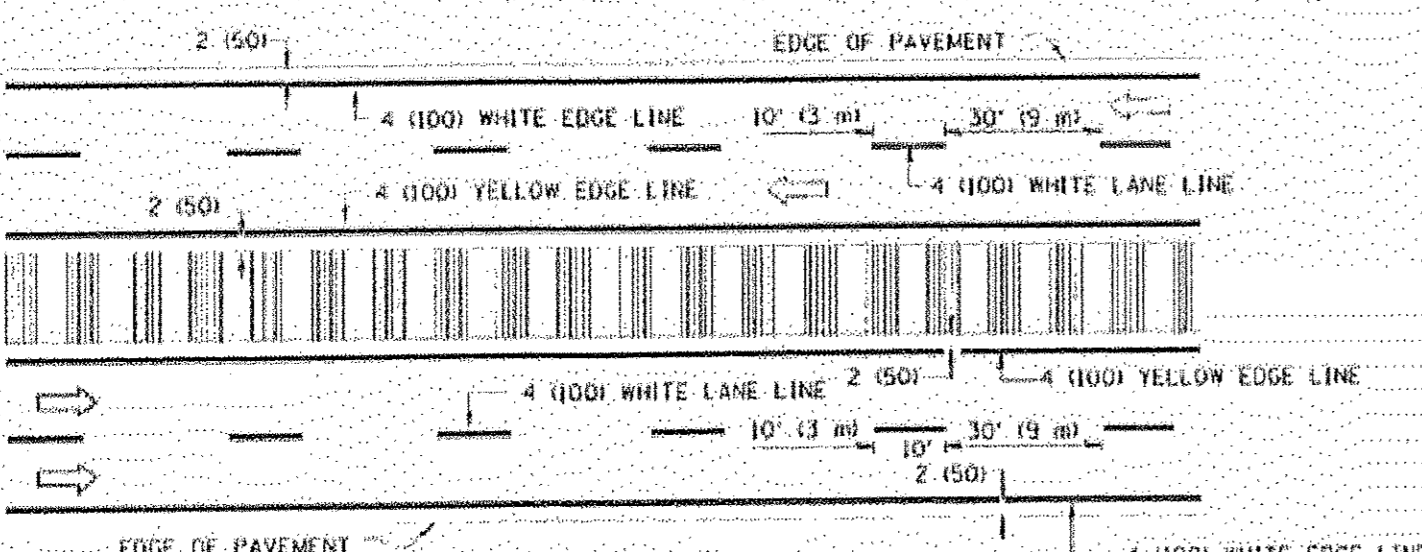
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	28
FED. ROAD DIST. NO. -		CONTRACT NO. 61C88	
ILLINOIS		FEDERAL AID PROJECT	



**2-LANE ROADWAY**

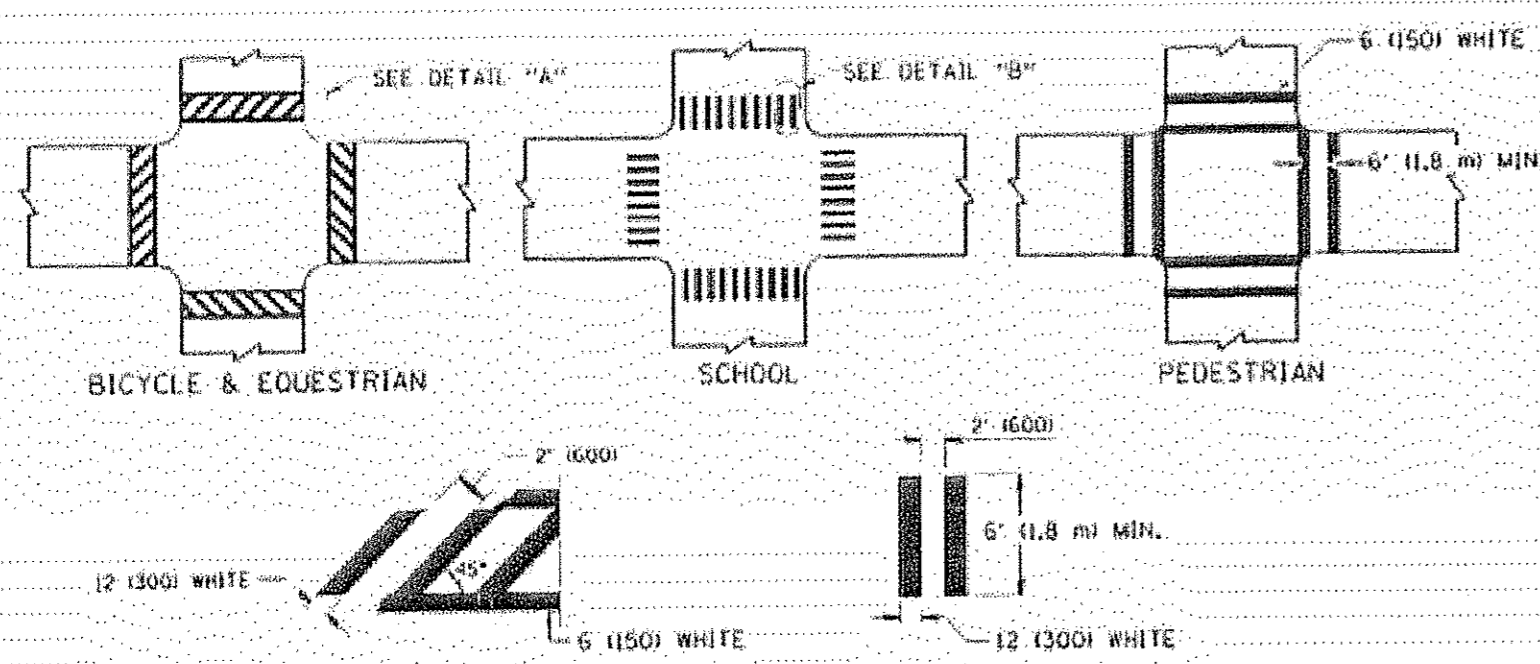


**MULTI-LANE UNDIVIDED**



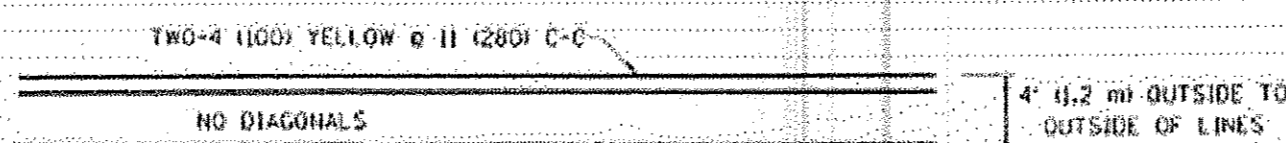
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

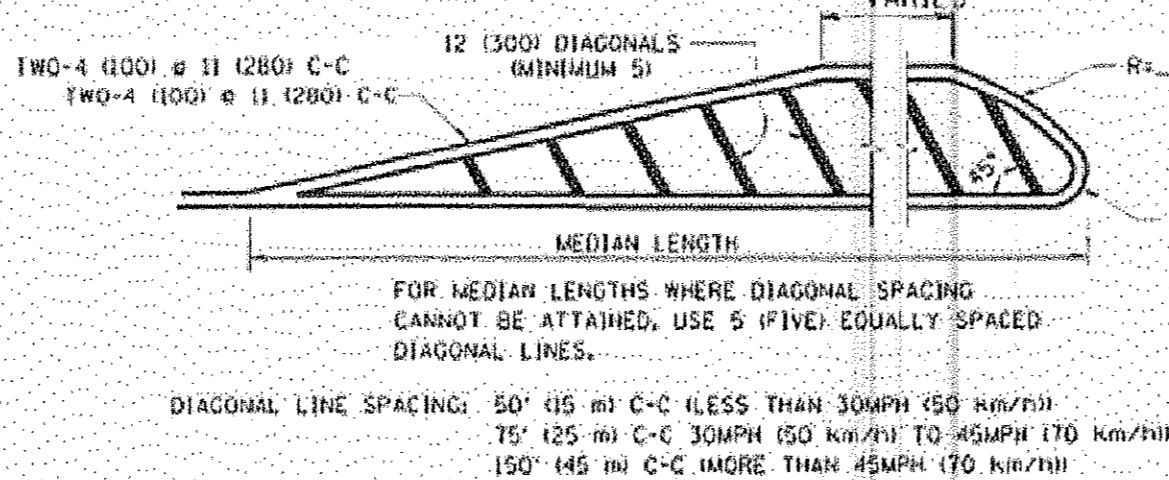


**TYPICAL CROSSWALK MARKING**

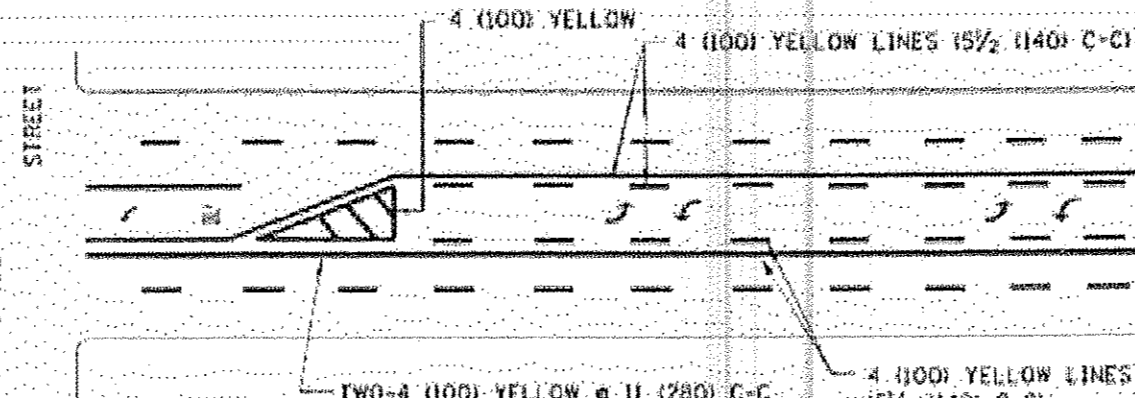
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



**4' (1.2 m) WIDE MEDIANS ONLY**

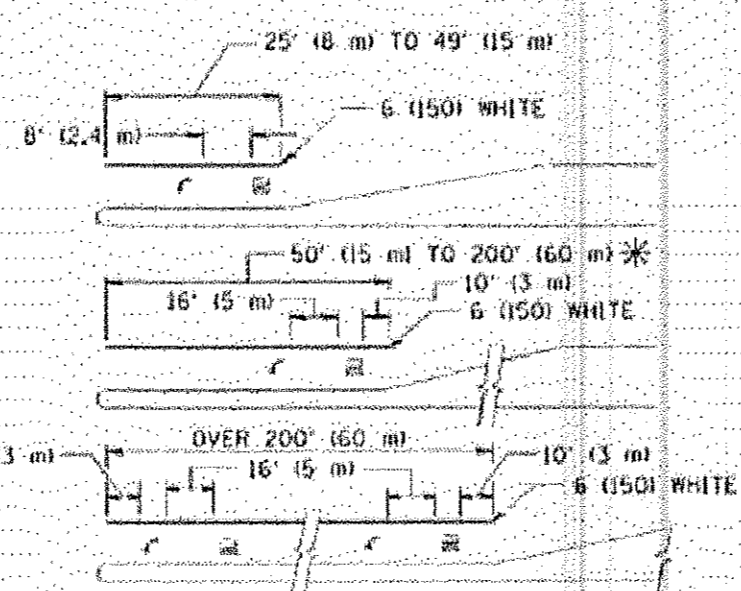


**MEDIANS OVER 4' (1.2 m) WIDE**



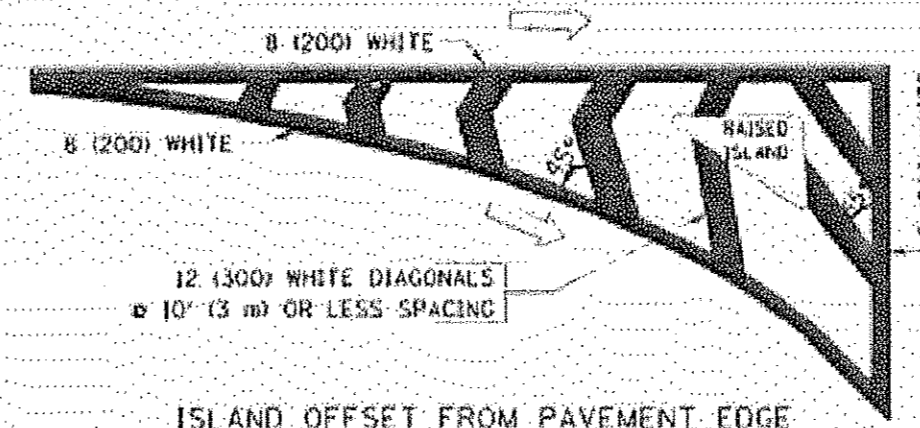
**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

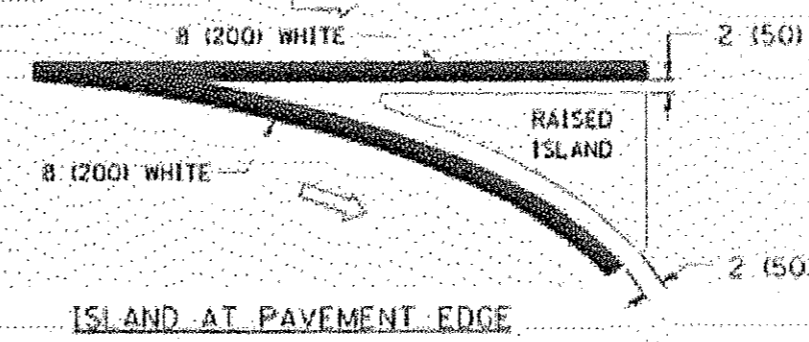


**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

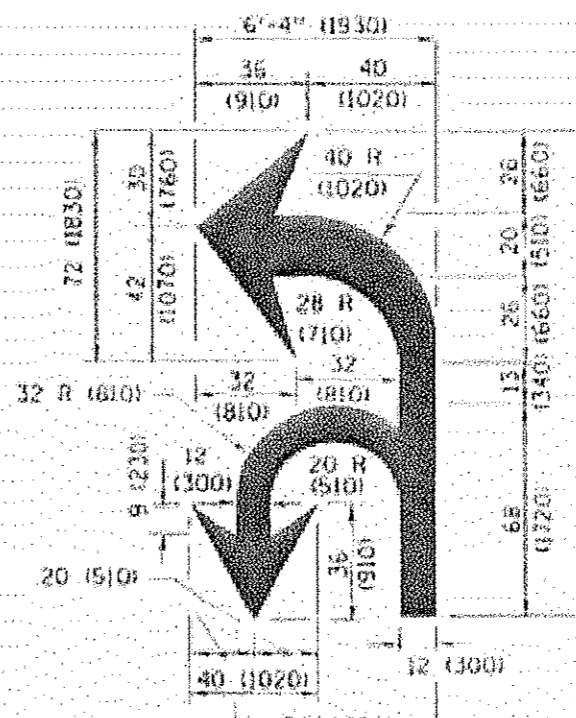


**ISLAND OFFSET FROM PAVEMENT EDGE**

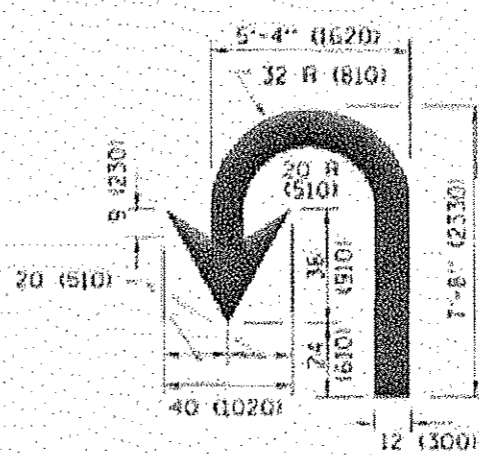


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(F/T)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C DUAL SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (SEE 42-40)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID SKIP-DASH AND SOLID	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45" 12 (300) @ 90"	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK. IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSWALK CENTERLINE, WHEN POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45" NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING
GOVE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45"	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> ) EACH "RR"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS 2' @ 1')	12 (300) @ 45"	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME	USER NAME	DESIGNED	REVISOR
15-00124-00-BT	J. RAMMACHER	E. EVERS	J. RAMMACHER 10-27-94
			C. JUCIUS 09-09-09
			C. JUCIUS 07-01-13
			C. JUCIUS 12-21-15
		CHECKED	
		DATE	03-19-90

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

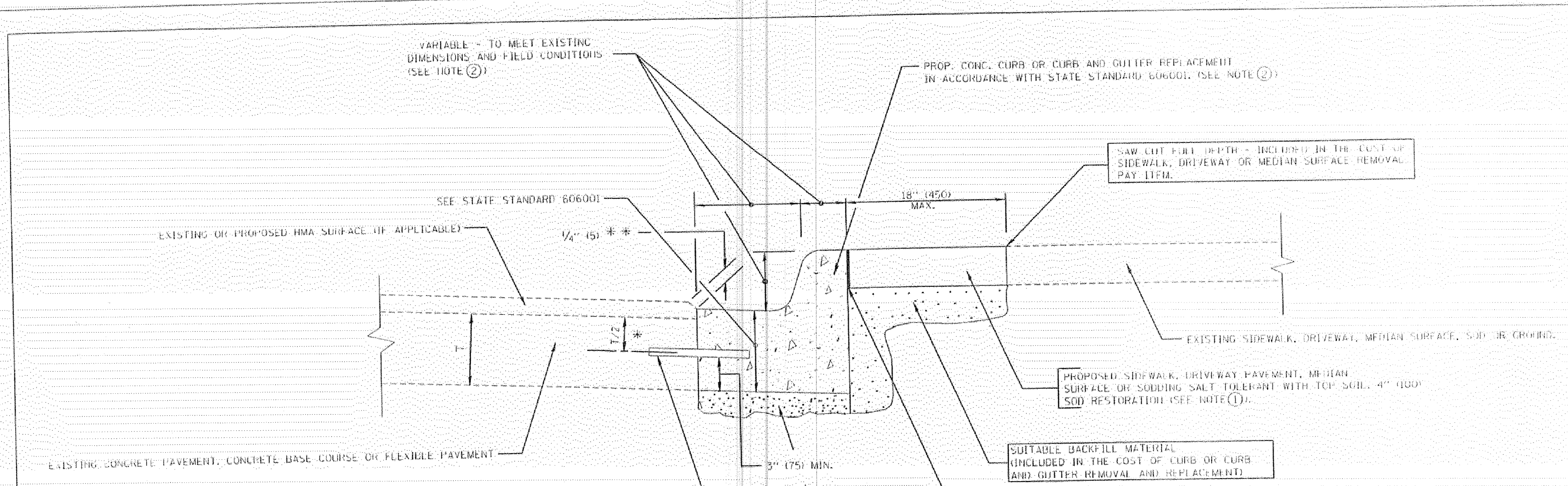
DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13	ILLINOIS	30	29
			CONTRACT NO. 61C88	
			FEDERAL AID PROJECT	

USER NAME	DESIGNED	REVISOR
DRAWN	CHECKED	REVISOR
DATE	DATE	REVISOR

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	29
FED. ROAD DIST. NO. -		CONTRACT NO. 61C88	
ILLINOIS		FEDERAL AID PROJECT	



- \* 5" (125) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.
- NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT-TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- (2) FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.
- (3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- (4) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- (5) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- (6) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- (7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- (8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE (3)).

**BASIS OF PAYMENT:**  
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

## CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakogin	DESIGNED = A. HANISH	REVISED = R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	SHEET NO.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.	
		DRAWN =	REVISED = A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			
	PLOT SCALE = 50,000 X 1 IN.	CHECKED =	REVISED = M. GOMEZ 01-22-01								
	PLOT DATE = 12/15/2009	DATE = 03-11-91	REVISED = R. BORO 12-15-09								

USER NAME:	DESIGNED:	REVISED:
PLOT SCALE:	CHECKED:	REVISED:
PLOT DATE:	DATE:	REVISED:

<b>D-1 DETAILS</b>	
SCALE: N/A	SHEET NO. 30 OF 30 SHEETS
STA.	STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15-00124-00-BT	LAKE	30	30
FED. ROAD DIST. NO. -	CONTRACT NO. 61C88		
ILLINOIS	FEDERAL AID PROJECT		