

PART OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 29, TOWNSHIP 46 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0008TE	1.280				0.016		04-29-401-098
0009TE	1.260				0.018		04-29-400-003
0010TE	0.632				0.003	140	04-29-401-099
0011TE	0.615				0.005	224	04-29-401-100
0012TE	0.521				0.003	119	04-29-401-101
0013TE	0.593				0.006	238	04-29-401-102

COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD '83 (2011), AND THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF SECTION 32-46-12 FOUND LCOOT MONUMENT PER DOCUMENT 6955730 RECORDED FEBRUARY 4, 2013 HAS A VALUE OF 2,099,014,637 NORTH & 1,113,410,758 EAST

STATION	OFFSET	NORTH	EAST
73+79.98	47.00' LT	2,099,494,568	1,114,887,496
73+79.99	40.00' LT	2,099,487,859	1,114,889,494
74+79.84	40.00' LT	2,099,516,204	1,114,985,236
74+81.94	47.00' LT	2,099,523,512	1,114,985,262
75+91.00	40.00' LT	2,099,547,759	1,115,091,819
75+91.00	47.00' LT	2,099,554,471	1,115,089,831
76+44.00	40.00' LT	2,099,562,804	1,115,142,638
76+44.00	47.00' LT	2,099,569,516	1,115,140,651
76+64.00	40.00' LT	2,099,568,482	1,115,161,815
76+64.00	47.00' LT	2,099,575,194	1,115,159,828

77+49.00	40.00' LT	2,099,592,611	1,115,243,319
77+49.00	47.00' LT	2,099,599,323	1,115,241,331
77+81.00	40.00' LT	2,099,601,695	1,115,274,002
77+81.00	47.00' LT	2,099,608,407	1,115,272,015
78+74.50	40.00' LT	2,099,628,238	1,115,363,656
78+74.50	47.00' LT	2,099,634,950	1,115,361,669
78+91.50	40.00' LT	2,099,633,064	1,115,379,956
78+91.50	47.00' LT	2,099,639,776	1,115,377,969
79+56.50	40.00' LT	2,099,651,516	1,115,442,282
79+56.50	47.00' LT	2,099,658,228	1,115,440,295
79+90.50	40.00' LT	2,099,661,167	1,115,474,884
79+90.50	47.00' LT	2,099,667,880	1,115,472,896

LEGEND

- SECTION - QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET

SURVEY NOTES:
1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
2. BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
3. ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99997405.
4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON DECEMBER 8, 2016.

STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

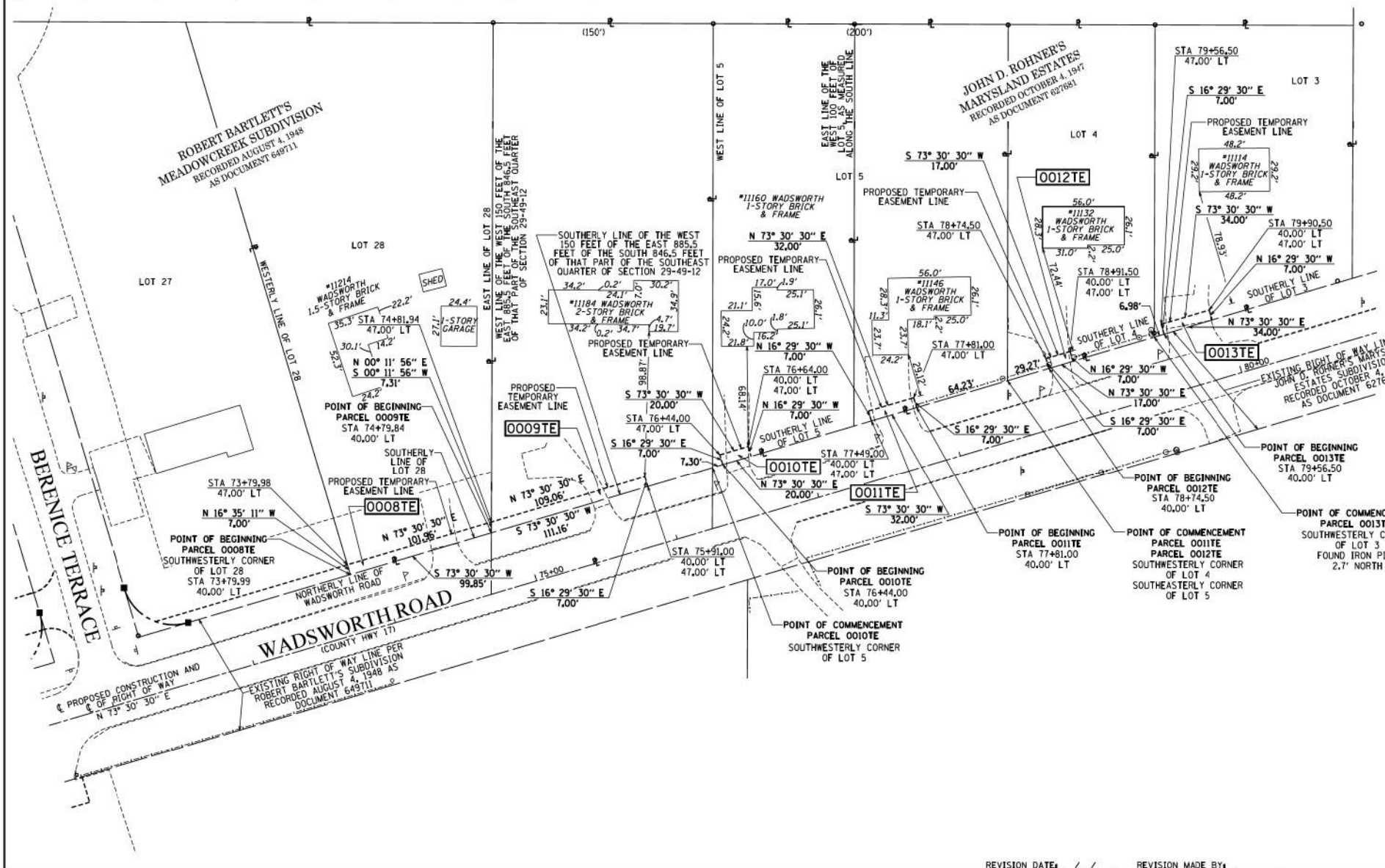
STATE OF ILLINOIS)
COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, ENVIRONMENTAL DESIGN INTERNATIONAL INC, ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001224, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 29, TOWNSHIP 46 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 14TH DAY OF OCTOBER, A.D. 2020.

WILLIAM J. FLEMING
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003226
LICENSE EXPIRATION DATE: 11/30/2020

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



EDI PROJECT 1811.003.15

EDI Environmental Design International Inc.
Civil, Survey, Environmental and Construction Inspection Services
33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603
PH: (312) 345-1400 FAX: (312) 345-0529
www.ediintl.com MBE/WBE/DBE

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WADSWORTH RD. AT LEWIS AVE.

LIMITS: COUNTY: LAKE
SECTION: 13-0005-06-WR JOB NO.: R-55-001-097
STATION: 73+00.00 TO 80+00.00
SCALE: 1" = 40' SHEET 9 OF 10 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

MODEL: Default
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USER NAME	DESIGNED	REVISION
= PatelDe	-	-
	DRAWN - DNP	REVISION -
	CHECKED - MCW	REVISION -
	DATE - 09/28/2023	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS
WADSWORTH ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-0005-06-WR	LAKE	228	101

CONTRACT NO. 61K05
ILLINOIS FED. AID PROJECT

SCALE: N/A SHEET 6 OF 7 SHEETS STA. TO STA.

PART OF THE SOUTHEAST QUARTER OF SECTION 29, TOWNSHIP 46 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0014	2.380	0.115		2.265			04-29-401-103 04-29-401-104

COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD '83 (2011), AND THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF SECTION 32-46-12 FOUND L.C.D.O.T. MONUMENT PER DOCUMENT 6955730 RECORDED FEBRUARY 4, 2013 HAS A VALUE OF 2,099,014.637' NORTH & 1,113,410.758' EAST

STATION	OFFSET	NORTH	EAST
81+21.00	40.00' LT	2,099,698.213	1,115,600.015
81+21.00	48.00' LT	2,099,705.884	1,115,597.744
84+03.57	40.00' LT	2,099,778.428	1,115,870.958
84+06.50	66.50' LT	2,099,804.670	1,115,866.247
84+16.33	82.53' LT	2,099,822.828	1,115,871.121

LEGEND

SECTION CORNER: 9, 10, 15, 16

QUARTER SECTION CORNER: 16, 15

GRAPHIC SCALE: 1" = 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011) ADJUSTMENT, EAST ZONE AND THE C. OF PROPOSED CONSTRUCTION OF LEWIS AVENUE SOUTH OF WADSWORTH ROAD BEARS N 00° 09' 49" E

- SECTION - QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

IRON PIPE OR ROD FOUND: ○

CUT CROSS FOUND OR SET: +

"MAG" NAIL SET: ⊕

5/8" REBAR SET: ●

- SURVEY NOTES:
- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
 - BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
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 - AREAS SHOWN ON THIS PLAT ARE "GROUND".
 - FIELD SURVEY COMPLETED ON DECEMBER 8, 2016.

- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
COUNTY OF COOK)

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DATED AT CHICAGO, ILLINOIS THIS 14TH DAY OF OCTOBER, A.D. 2020.

WILLIAM J. FLEMING
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003226
LICENSE EXPIRATION DATE: 11/30/2020

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



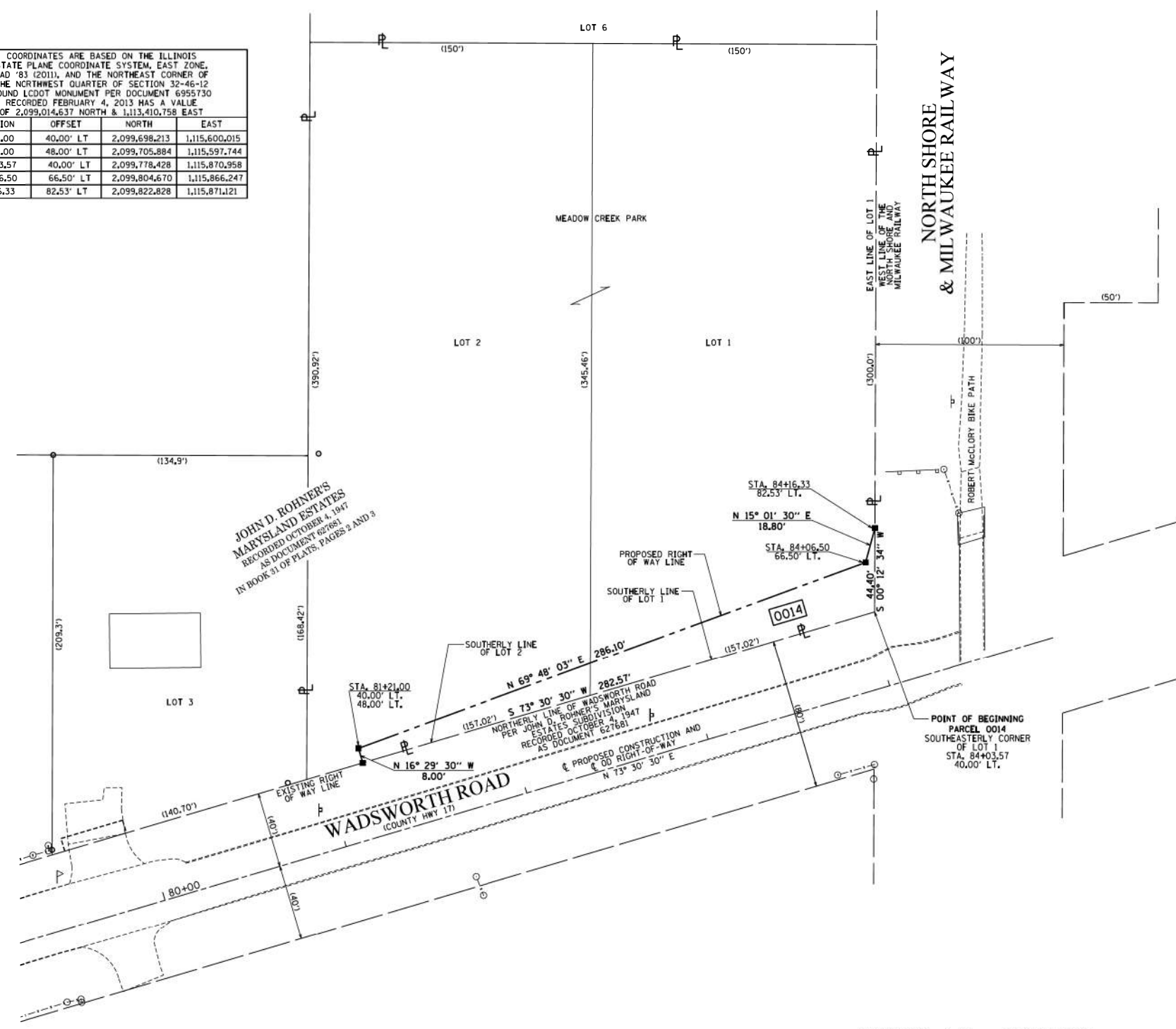
EDI PROJECT 1811.003.15

Environmental Design International Inc.
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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
WADSWORTH RD. AT LEWIS AVE.

LIMITS: COUNTY: LAKE
SECTION: 13-00055-06-WR JOB NO.: R-55-001-97
STATION 80+00.00 TO 84+50.00
SCALE: 1" = 30' SHEET 10 OF 10 SHEETS

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196



REVISION DATE: / / REVISION MADE BY:

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USER NAME	DESIGNED	REVISION
= PatelDe	-	-
	DRAWN - DNP	REVISION -
	CHECKED - MCW	REVISION -
	DATE - 09/28/2023	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

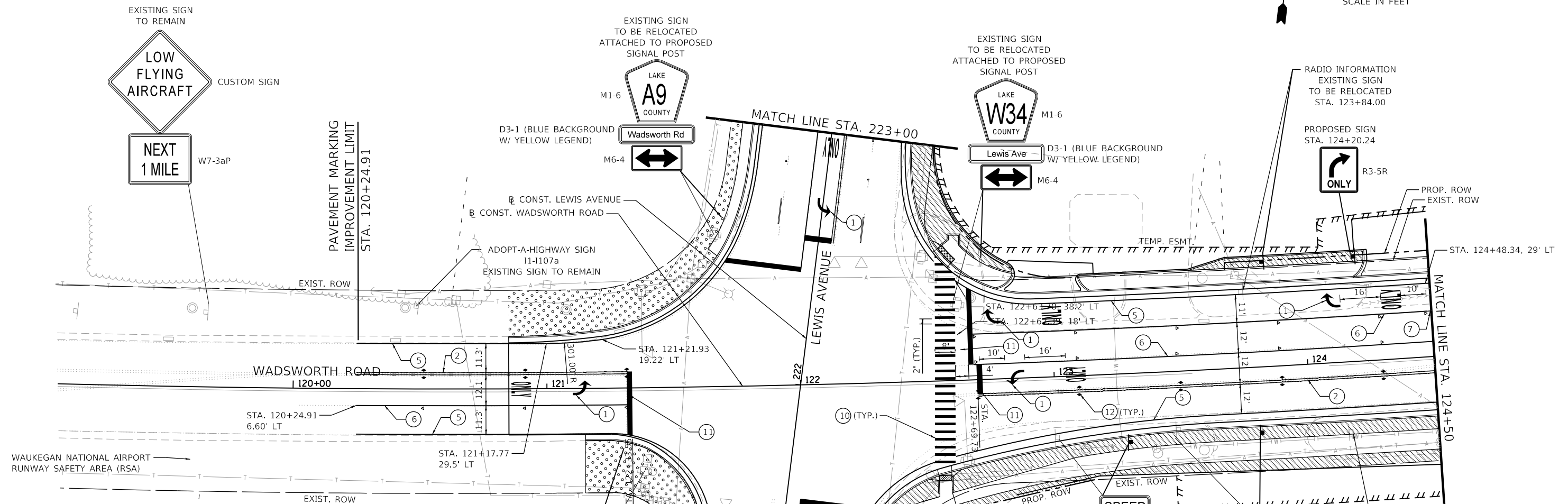
PLAT OF HIGHWAYS
WADSWORTH ROAD

SCALE: N/A SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	102

CONTRACT NO. 61K05

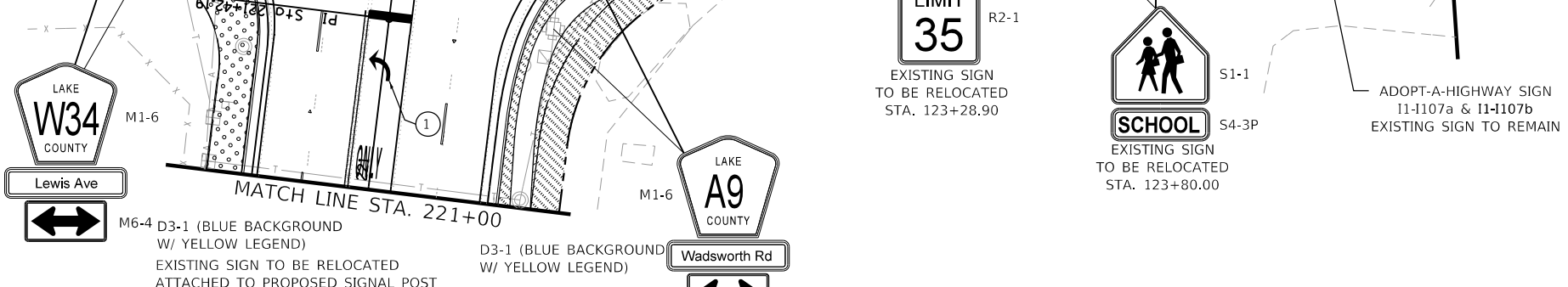
ILLINOIS FED. AID PROJECT



LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE
GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) YELLOW SOLID AND YELLOW SKIP
DASH LINE (10' DASH, 30' SKIP) @ 11" C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 5" (78000300) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75' C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25' C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
- ⑫ RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP.
RECESSED PAVEMENT MARKER, DOUBLE YELLOW
RECESSED PAVEMENT MARKER, WHITE AND RED

SEEDING, CLASS 2A (MODIFIED) (X2501030) (AERONAUTICS SEEDING MIXTURE)	SODDING, SALT TOLERANT (25200110)
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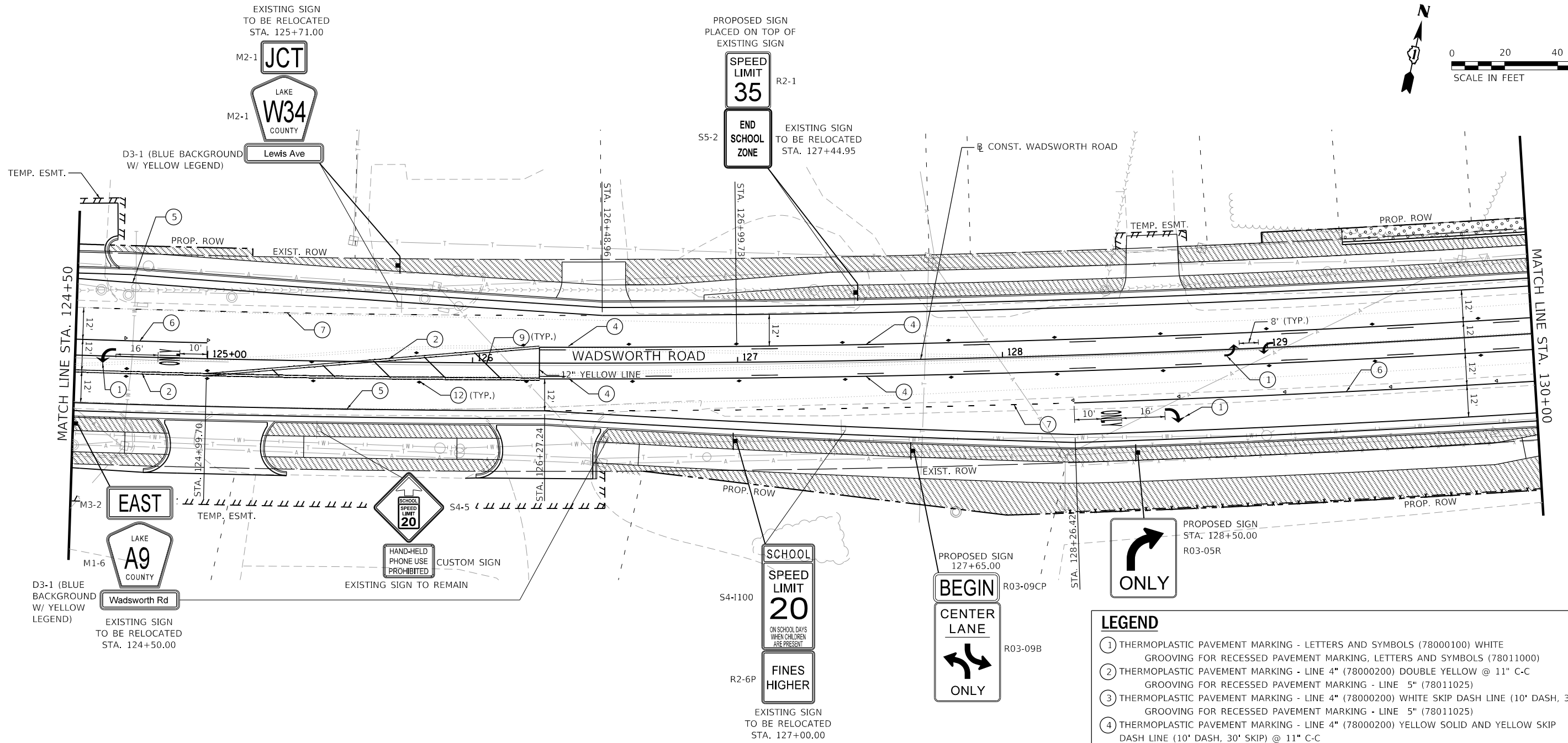
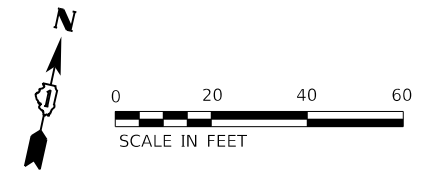


NOTE:

1. SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
2. PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
3. NARROW LINE INDICATES EXISTING SIGN LOCATION. BOLD LINE INDICATED PROPOSED SIGN LOCATION.
4. SEE HIGHWAY STANDARDS 720001, 720006, 720016, AND 728001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.

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	USER NAME = PatelDe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN WADSWORTH ROAD				F.A.U. RTE. 1209	SECTION 13-00055-06-WR	COUNTY LAKE	TOTAL SHEETS 228	SHEET NO. 103
	PLOT SCALE = 40.0000' / in.	CHECKED - MCW	REVISED -		SCALE: 1"=20'	SHEET 1	OF 9 SHEETS	STA. 119+50 TO STA. 124+50	CONTRACT NO. 61K05				
	PLOT DATE = 11/15/2023	DATE - 09/28/2023	REVISED -		ILLINOIS FED. AID PROJECT								



LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
④	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) YELLOW SOLID AND YELLOW SKIP DASH LINE (10' DASH, 30' SKIP) @ 11" C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (78000300) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75° C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25° C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑩	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑪	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
⑫	RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP. RECESSED PAVEMENT MARKER, DOUBLE YELLOW RECESSED PAVEMENT MARKER, WHITE AND RED
	SEEDING, CLASS 2A (MODIFIED) (X2501030) (AERONAUTICS SEEDING MIXTURE)
	SODDING, SALT TOLERANT (25200110)

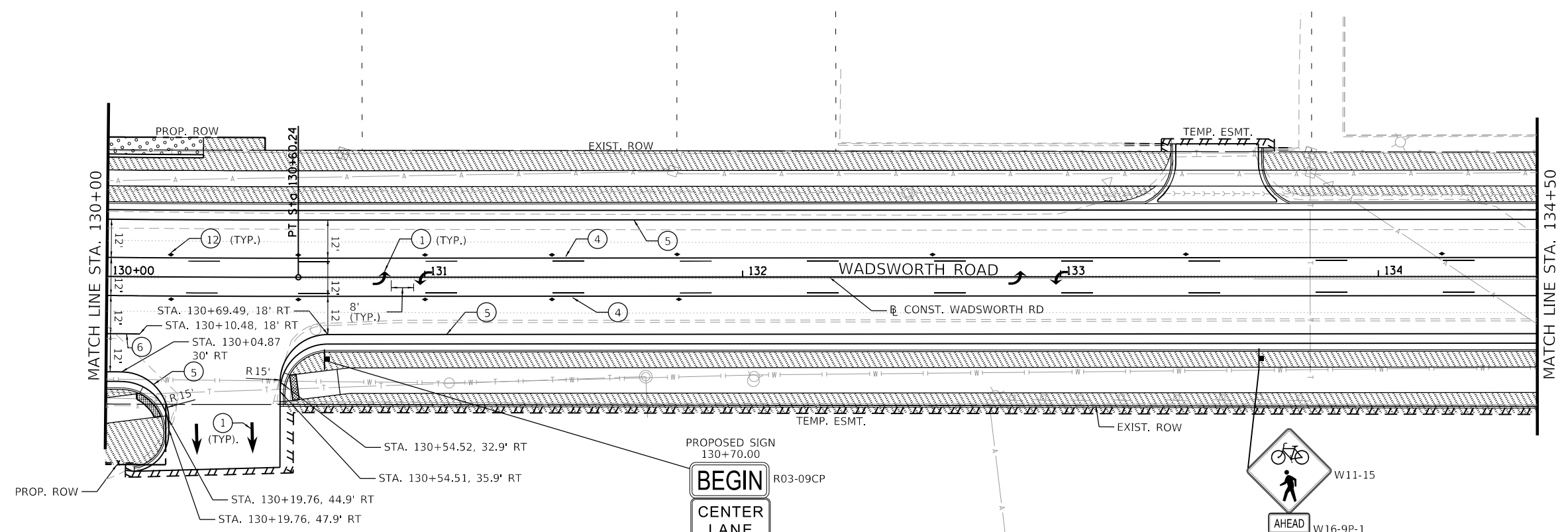
NOTE:

- SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
- PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
- NARROW LINE INDICATES EXISTING SIGN LOCATION. BOLD LINE INDICATED PROPOSED SIGN LOCATION.
- SEE HIGHWAY STANDARDS 720001, 720006, 720016, AND 728001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.

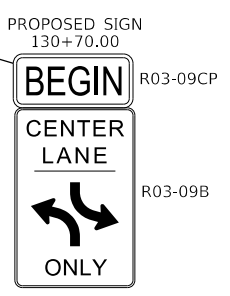
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 PROJECT: 1122723\001 - Wadsworth Road Phase II\CAD_CPI\CAD_Sheets\Signs-Signs-CP-sht-02.dwg

	USER NAME = PatelDe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN WADSWORTH ROAD				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MCW	REVISED -		SCALE: 1"=20'	SHEET 2	OF 9 SHEETS	STA. 124+50 TO STA. 130+00	1209	13-0055-06-WR	LAKE	228	104
	PLOT DATE = 11/15/2023	DATE - 09/28/2023	REVISED -						CONTRACT NO. 61K05				

NOTE



LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
④	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) YELLOW SOLID AND YELLOW SKIP DASH LINE (10' DASH, 30' SKIP) @ 11" C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (78000300) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75° C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25° C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑩	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑪	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
⑫	RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP. RECESSED PAVEMENT MARKER, DOUBLE YELLOW RECESSED PAVEMENT MARKER, WHITE AND RED
	SEEDING, CLASS 2A (MODIFIED) (X2501030) (AERONAUTICS SEEDING MIXTURE)
	SODDING, SALT TOLERANT (25200110)



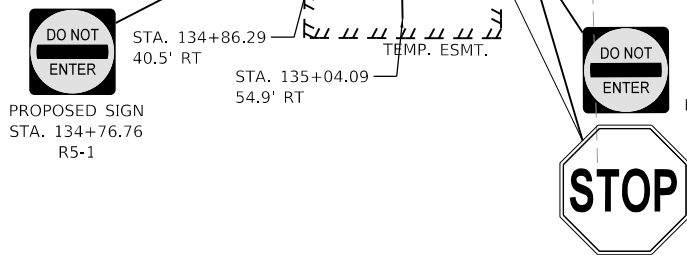
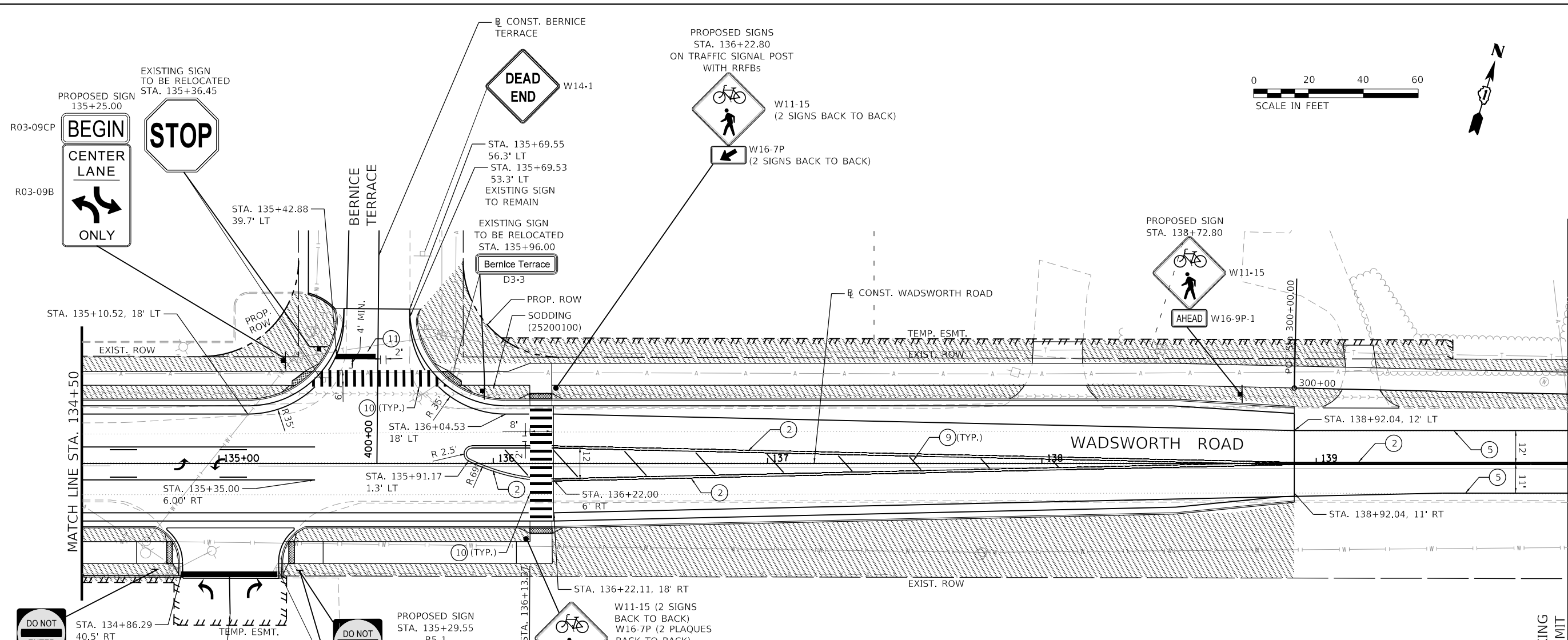
NOTE:

- SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
- PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
- NARROW LINE INDICATES EXISTING SIGN LOCATION. BOLD LINE INDICATED PROPOSED SIGN LOCATION.
- SEE HIGHWAY STANDARDS 720001, 720006, 720016, AND 728001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.

MODEL: Default
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	USER NAME = PatelDe PLOT SCALE = 40.0000' / in. PLOT DATE = 11/15/2023	DESIGNED - DRAWN - DNP CHECKED - MCW DATE - 09/28/2023	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN WADSWORTH ROAD				F.A.U. RTE. 1209 SECTION 13-00055-06-WR COUNTY LAKE TOTAL SHEETS 228 SHEET NO. 105
	SCALE: 1"=20' SHEET 3 OF 8 SHEETS STA. 130+00 TO STA. 135+50				CONTRACT NO. 61K05 ILLINOIS FED. AID PROJECT				

MODEL: Default
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PROPOSED SIGN STA. 135+29.55 R5-1 TO BE PLACED BACK TO BACK OF EXISTING SIGN (RELOCATED)

PROPOSED SIGN STA. 136+12.00 ON TRAFFIC SIGNAL POST WITH RRFBs

PROPOSED SIGN STA. 136+22.80 ON TRAFFIC SIGNAL POST WITH RRFBs

LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) YELLOW SOLID AND YELLOW SKIP DASH LINE (10' DASH, 30' SKIP) @ 11" C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 5" (78000300) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75' C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25' C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
- ⑫ RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP. RECESSED PAVEMENT MARKER, DOUBLE YELLOW RECESSED PAVEMENT MARKER, WHITE AND RED

SEEDING, CLASS 2A (MODIFIED) (X2501030) (AERONAUTICS SEEDING MIXTURE)

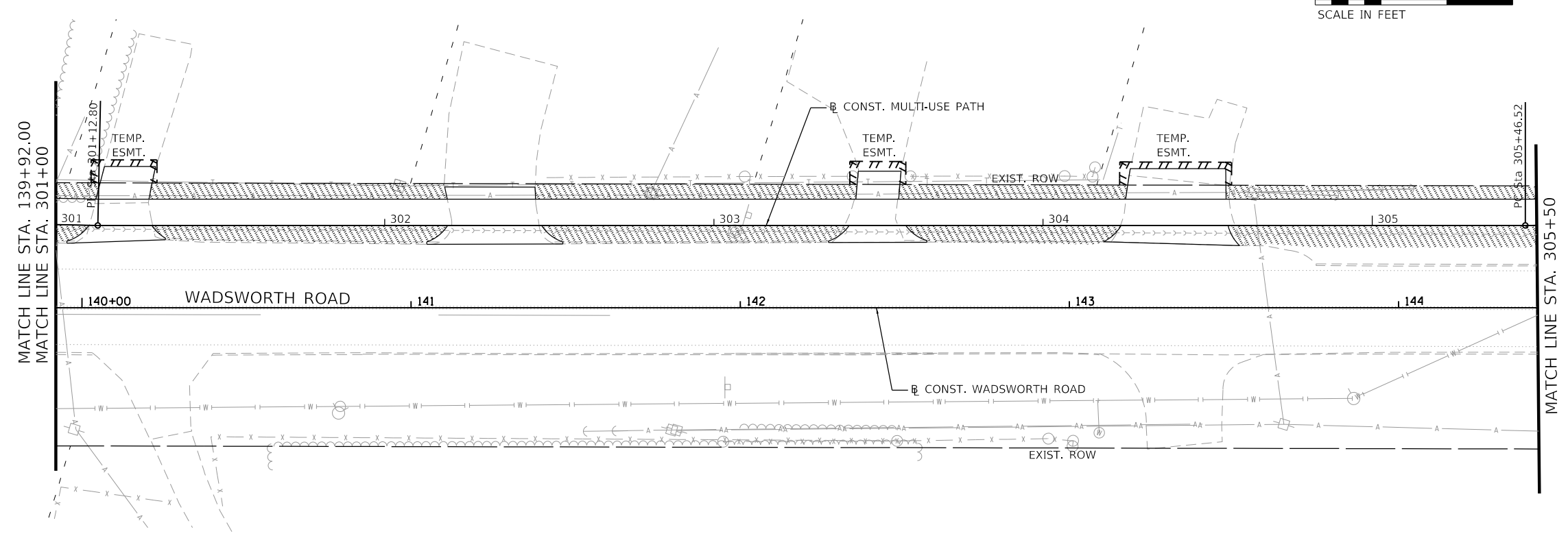
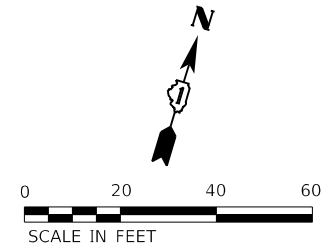
SODDING, SALT TOLERANT (25200100)

NOTE:

- SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
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- NARROW LINE INDICATES EXISTING SIGN LOCATION. BOLD LINE INDICATED PROPOSED SIGN LOCATION.
- SEE HIGHWAY STANDARDS 720001, 720006, 720016, AND 728001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.

	USER NAME = PatelDe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN WADSWORTH ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - MCW	REVISED -					1209	13-00055-06-WR	LAKE	228	106
	PLOT DATE = 11/15/2023	DATE - 09/28/2023	REVISED -					CONTRACT NO. 61K05				

SCALE: 1"=20' SHEET 4 OF 8 SHEETS STA. 135+50 TO STA. 139+92 ILLINOIS FED. AID PROJECT



LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE
GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
 - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
 - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
 - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) YELLOW SOLID AND YELLOW SKIP
DASH LINE (10' DASH, 30' SKIP) @ 11" C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
 - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 5" (78000300) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
 - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
 - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
 - ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75° C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
 - ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25° C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
 - ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
 - ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
 - ⑫ RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP.
RECESSED PAVEMENT MARKER, DOUBLE YELLOW
RECESSED PAVEMENT MARKER, WHITE AND RED
- SEEDING, CLASS 2A (MODIFIED) (X2501030)
(AERONAUTICS SEEDING MIXTURE)
 SODDING, SALT TOLERANT (25200110)

NOTE:

- SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
- PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
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MODEL: Default
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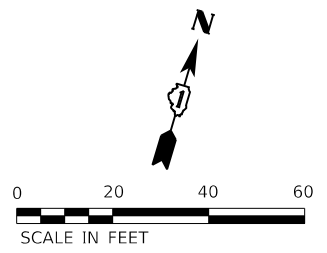
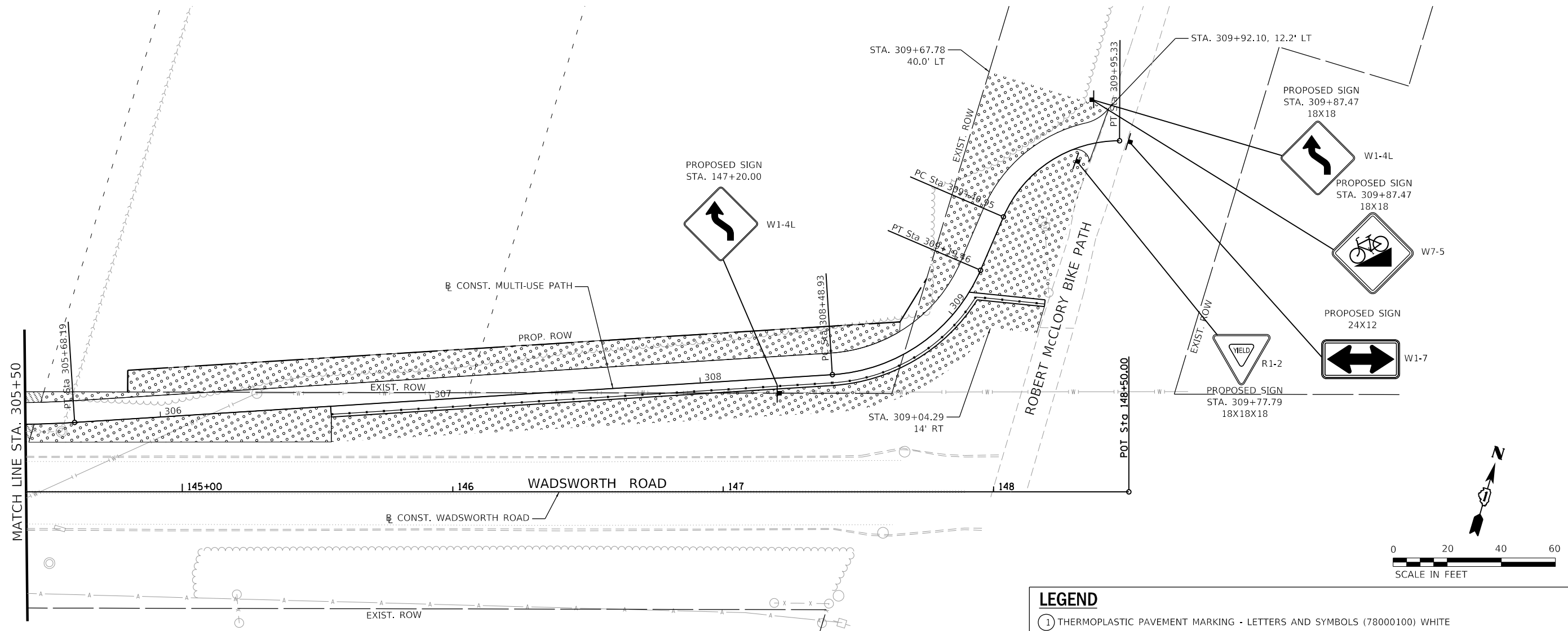


USER NAME = PatelDe	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DNP	REVISED -
PLOT DATE = 11/15/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN			
MULTI-USE PATH			
SCALE: 1"=20'	SHEET 5	OF 8 SHEETS	STA. 301+00 TO STA. 305+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	107
CONTRACT NO. 61K05				
ILLINOIS		FED. AID PROJECT		



NOTE:

- SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
- PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
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- SEE HIGHWAY STANDARDS 720001, 720006, 720016, AND 728001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.

LEGEND	
①	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
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⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 5" (78000300) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP) GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75' C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25' C-C GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑩	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
⑪	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
⑫	RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP. RECESSED PAVEMENT MARKER, DOUBLE YELLOW RECESSED PAVEMENT MARKER, WHITE AND RED
	SEEDING, CLASS 2A (MODIFIED) (X2501030) (AERONAUTICS SEEDING MIXTURE)
	SODDING, SALT TOLERANT (25200110)

MODEL: Default
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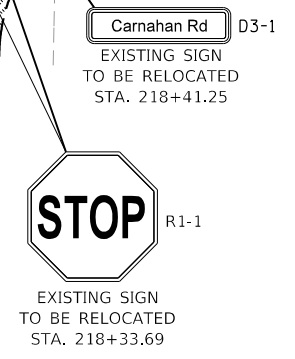
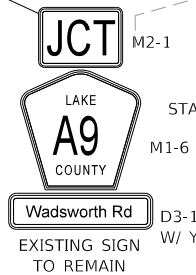
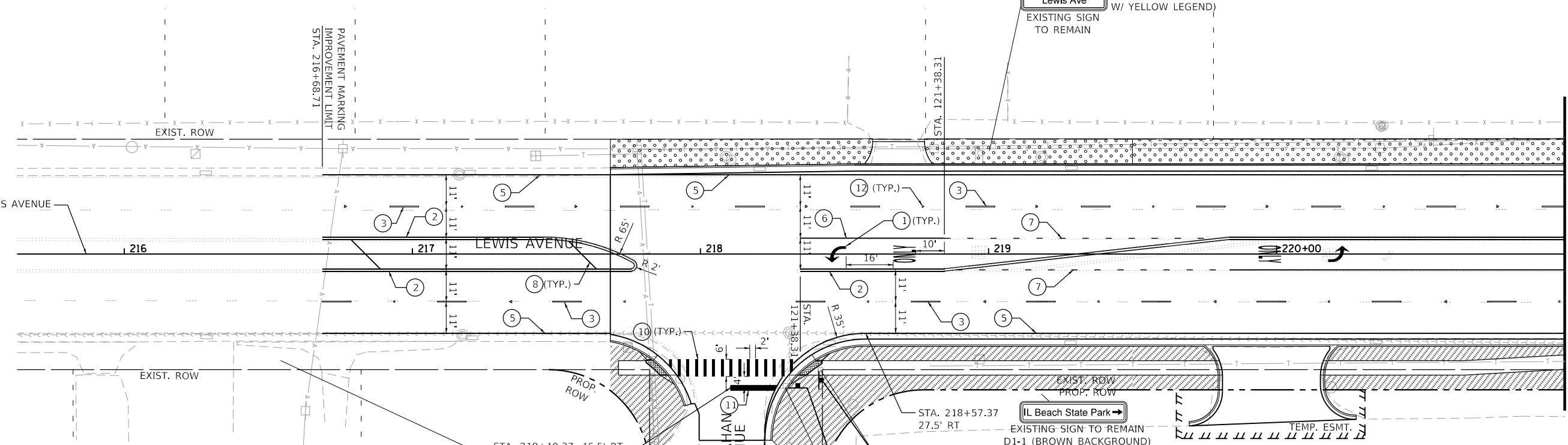
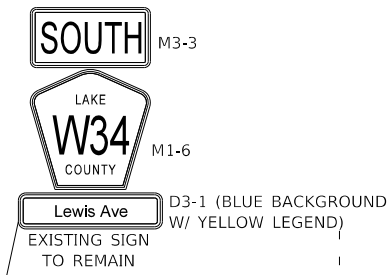
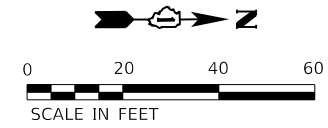
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PLOT SCALE = 40.0000' / in.	DRAWN - DNP	REVISED -
PLOT DATE = 11/15/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN
MULTI-USE PATH**

SCALE: 1"=20' SHEET 6 OF 8 SHEETS STA. 305+50 TO STA. 309+89

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-0055-06-WR	LAKE	228	108
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE
GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) YELLOW SOLID AND YELLOW SKIP
DASH LINE (10' DASH, 30' SKIP) @ 11" C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 5" (78000300) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75' C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25' C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
- ⑫ RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP.
RECESSED PAVEMENT MARKER, DOUBLE YELLOW
RECESSED PAVEMENT MARKER, WHITE AND RED

SEEDING, CLASS 2A (MODIFIED) (X2501030) (AERONAUTICS SEEDING MIXTURE)
 SODDING, SALT TOLERANT (25200110)

NOTE:

1. SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
2. PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
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4. SEE HIGHWAY STANDARDS 720001, 720006, 720016, AND 728001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.

MODEL: Default
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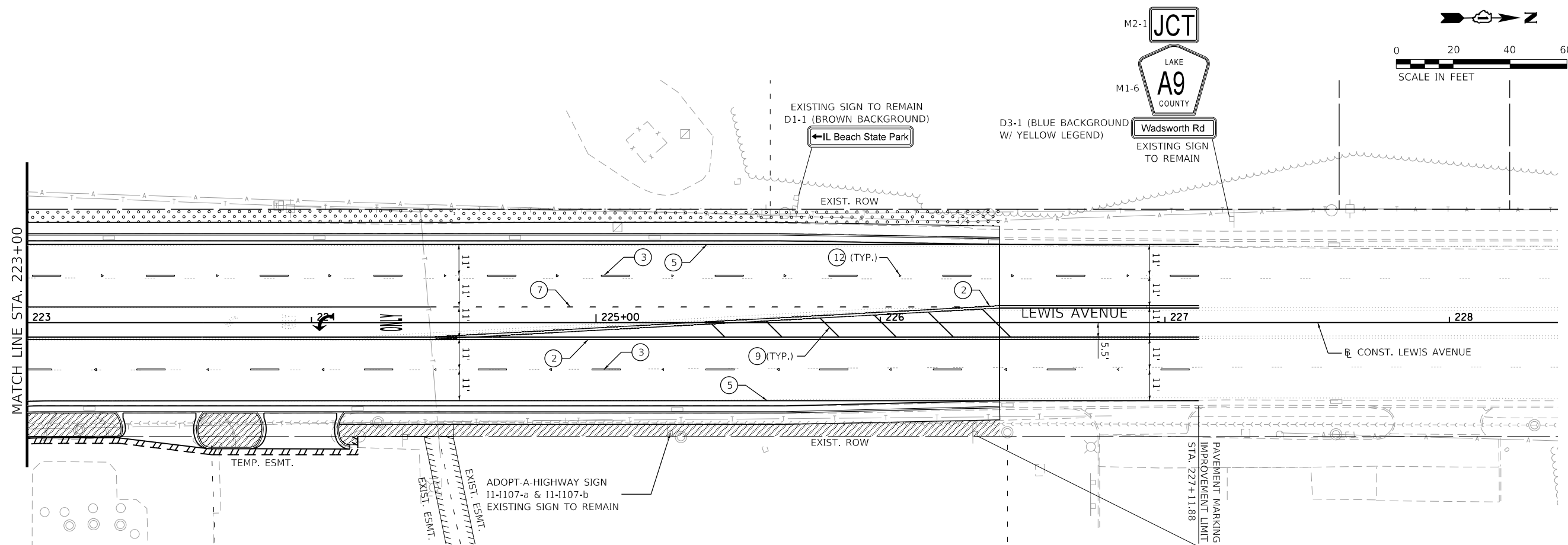
USER NAME = PatelDe	DESIGNED -	REVISED -
	DRAWN - DNP	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MCW	REVISED -
PLOT DATE = 11/15/2023	DATE - 09/28/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING, SIGNING, AND LANDSCAPING PLAN
LEWIS AVENUE**

SCALE: 1"=20' SHEET 7 OF 8 SHEETS STA. 214+00 TO STA. 219+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	109
CONTRACT NO. 61K05				
		ILLINOIS	FED. AID PROJECT	



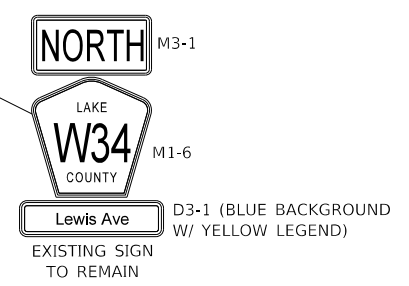
LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (78000100) WHITE
GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS (78011000)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) DOUBLE YELLOW @ 11" C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) WHITE SKIP DASH LINE (10' DASH, 30' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 5" (78011025)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (78000200) YELLOW SOLID AND YELLOW SKIP
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GROOVING FOR RECESSED PAVEMENT MARKING - LINE 6" (78011030)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) WHITE DOTTED LINE EXTENSION (2' DASH, 6' SKIP)
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 7" (78011035)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 75° C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) YELLOW DIAGONAL LINE @ 45° AND 25° C-C
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) WHITE SOLID LINE
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 13" (78011065)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650) WHITE STOP BAR
GROOVING FOR RECESSED PAVEMENT MARKING - LINE 25" (78011125)
- ⑫ RECESSED REFLECTIVE PAVEMENT MARKER (X7810300) 40' SPACING TYP.
RECESSED PAVEMENT MARKER, DOUBLE YELLOW
RECESSED PAVEMENT MARKER, WHITE AND RED

SEEDING, CLASS 2A (MODIFIED) (X2501030) (AERONAUTICS SEEDING MIXTURE)	SODDING, SALT TOLERANT (25200110)
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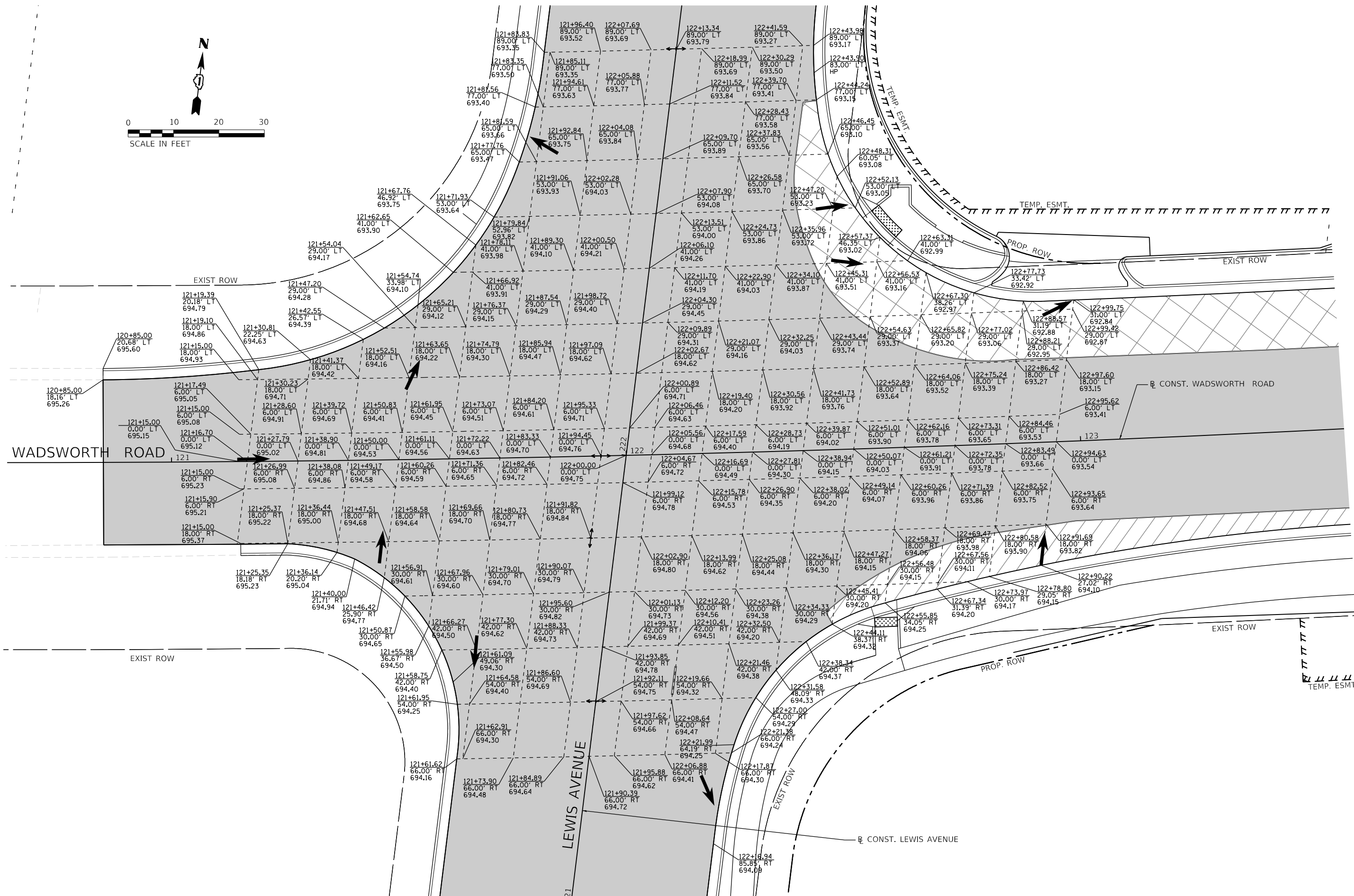
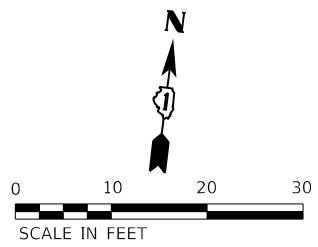
NOTE:

1. SEE HIGHWAY STANDARD 780001 AND LC7800 FOR TYPICAL PAVEMENT MARKINGS FOR TURN LANE, CROSSWALK, AND MEDIAN MARKING DETAILS.
2. PAVEMENT MARKINGS SHOWN EXTENDING OUTSIDE OF THE PROJECT LIMITS ARE BEING REPLACED DUE TO THEIR REMOVAL FOR TRAFFIC MAINTENANCE DURING CONSTRUCTION. REPLACE PAVEMENT MARKINGS AFTER CONSTRUCTION USING THERMOPLASTIC MATERIAL.
3. NARROW LINE INDICATES EXISTING SIGN LOCATION. BOLD LINE INDICATED PROPOSED SIGN LOCATION.
4. SEE HIGHWAY STANDARDS 720001, 720006, 720016, AND 728001 FOR SIGN PANEL AND SIGN SUPPORT DETAILS.



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PLOT DATE = 11/15/2023	DATE - 09/28/2023	REVISED -	REVISED -	REVISED -	SCALE: 1"=20'	SHEET 8	OF 8	SHEETS	STA. 224+50	TO STA. 230+00	CONTRACT NO. 61K05		ILLINOIS FED. AID PROJECT



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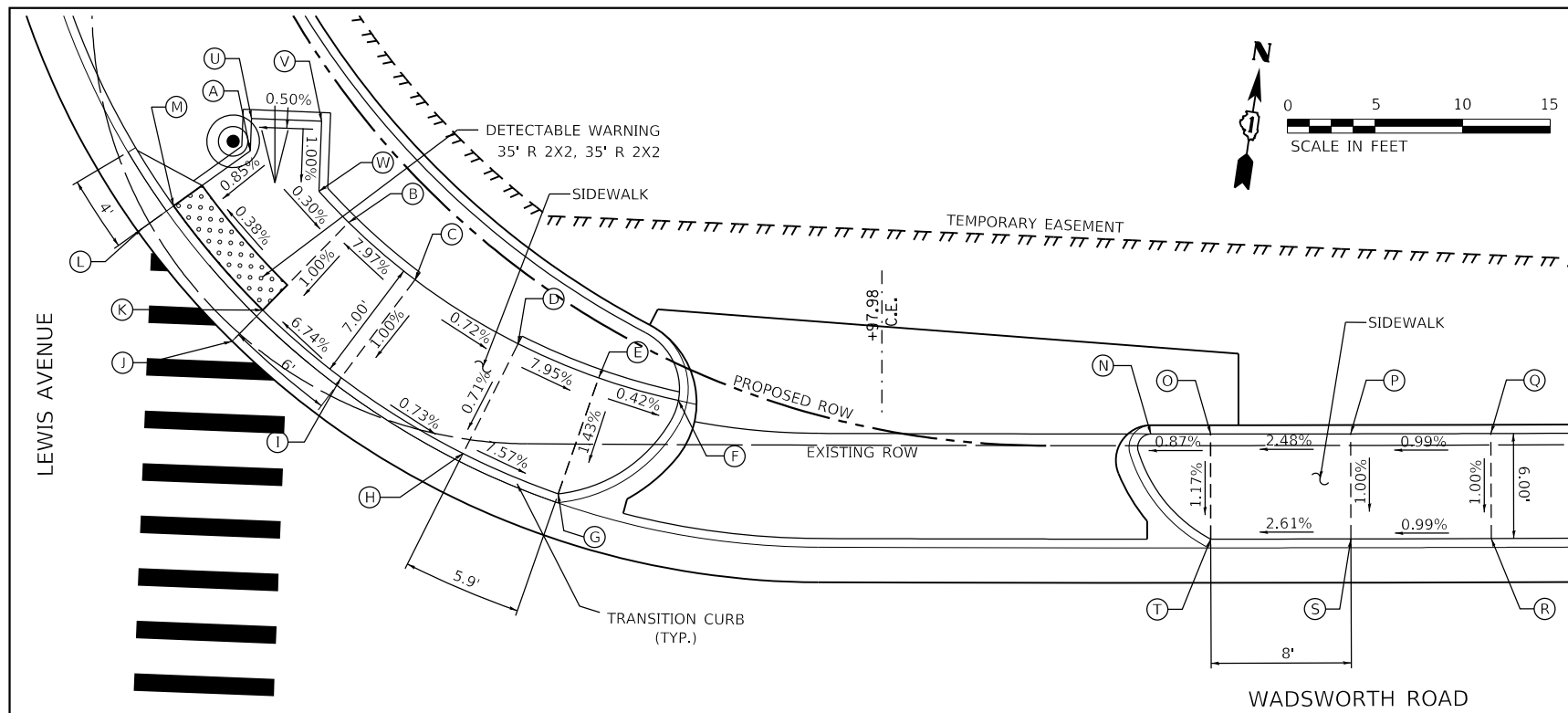
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION PLAN DETAIL

SCALE: 1"=10' SHEET 1 OF 1 SHEETS STA. TO STA.

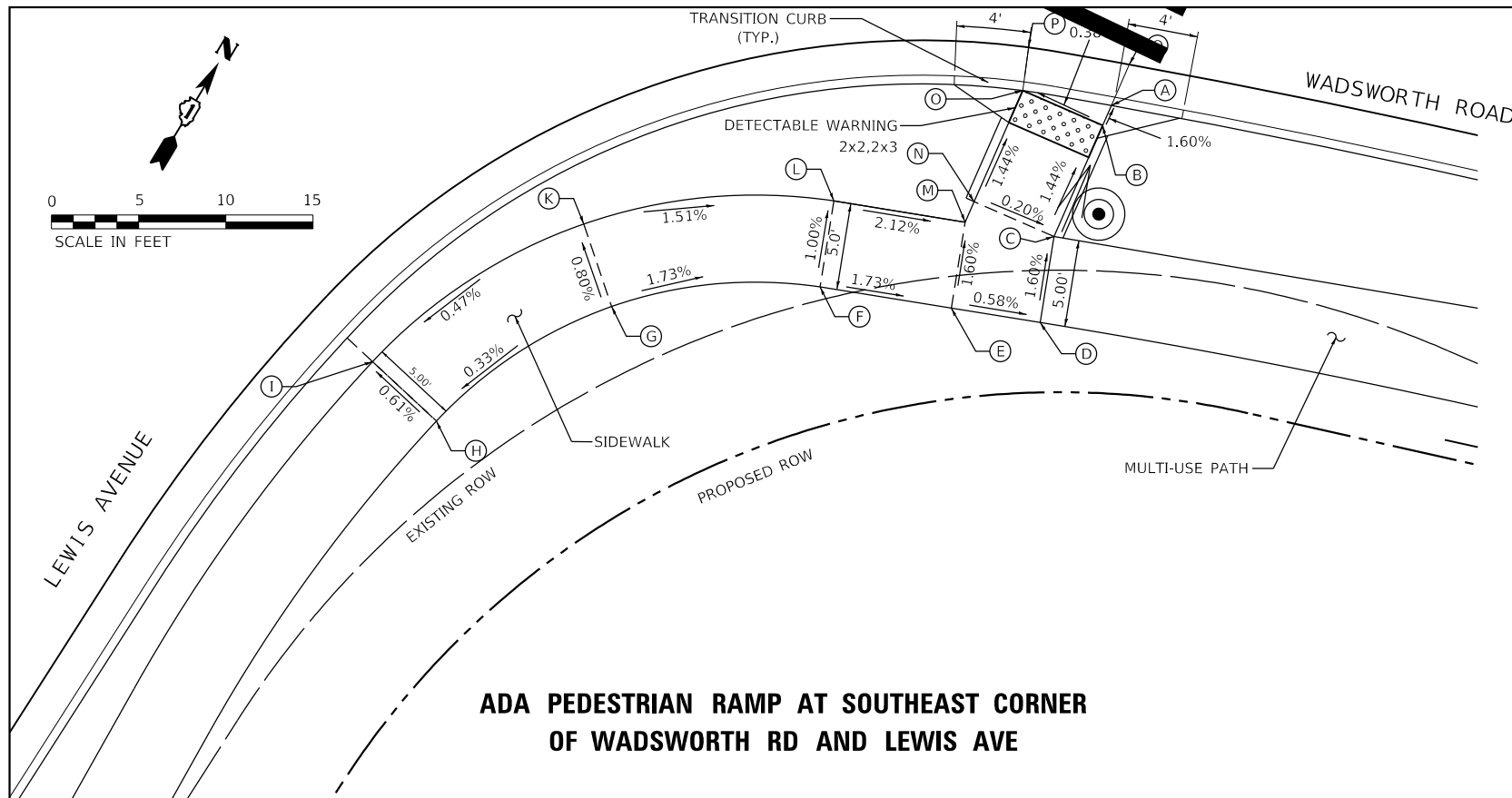
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	111
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



**ADA PEDESTRIAN RAMPS AT NORTHEAST CORNER
OF WADSWORTH RD AND LEWIS AVE**

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	122+60.11	55.41	LT	693.03
B	122+65.82	51.37	LT	693.02
C	122+69.66	48.14	LT	693.42
D	122+75.62	44.52	LT	693.37
E	122+80.27	42.60	LT	692.87
F	122+84.86	41.34	LT	692.95
G	122+77.98	35.98	LT	692.87
H	122+72.49	38.25	LT	693.32
I	122+65.46	42.52	LT	693.35
J	122+59.17	44.54	LT	693.01
K	122+60.92	46.34	LT	692.95
L	122+53.69	50.75	LT	693.04

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
M	122+55.73	52.23	LT	692.98
N	123+12.02	39.49	LT	692.78
O	123+15.45	39.49	LT	692.81
P	123+23.50	39.51	LT	693.01
Q	123+31.56	39.49	LT	693.09
R	123+31.56	33.50	LT	693.03
S	123+23.51	33.51	LT	692.95
T	123+15.46	33.50	LT	692.74
U	122+60.17	57.27	LT	693.05
V	122+64.21	57.14	LT	693.07
W	122+64.08	53.15	LT	693.03



**ADA PEDESTRIAN RAMP AT SOUTHEAST CORNER
OF WADSWORTH RD AND LEWIS AVE**

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	122+58.41	36.00	RT	694.18
B	122+58.41	37.25	RT	694.20
C	122+58.42	44.21	RT	694.30
D	122+59.66	49.05	RT	694.38
E	122+54.70	50.34	RT	694.41
F	122+47.38	52.26	RT	694.54
G	122+37.00	58.13	RT	694.75
H	122+30.55	68.21	RT	694.71
I	122+25.88	66.58	RT	694.68
K	122+33.66	54.44	RT	694.71
L	122+46.13	47.42	RT	694.49
M	122+53.46	45.50	RT	694.33
N	122+53.46	44.22	RT	694.31
O	122+53.44	37.26	RT	694.21
P	122+52.75	34.86	RT	694.27
Q	122+58.41	33.43	RT	693.96

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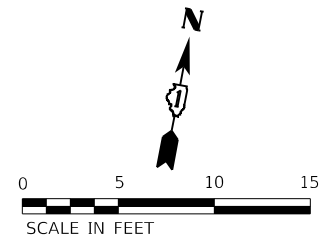
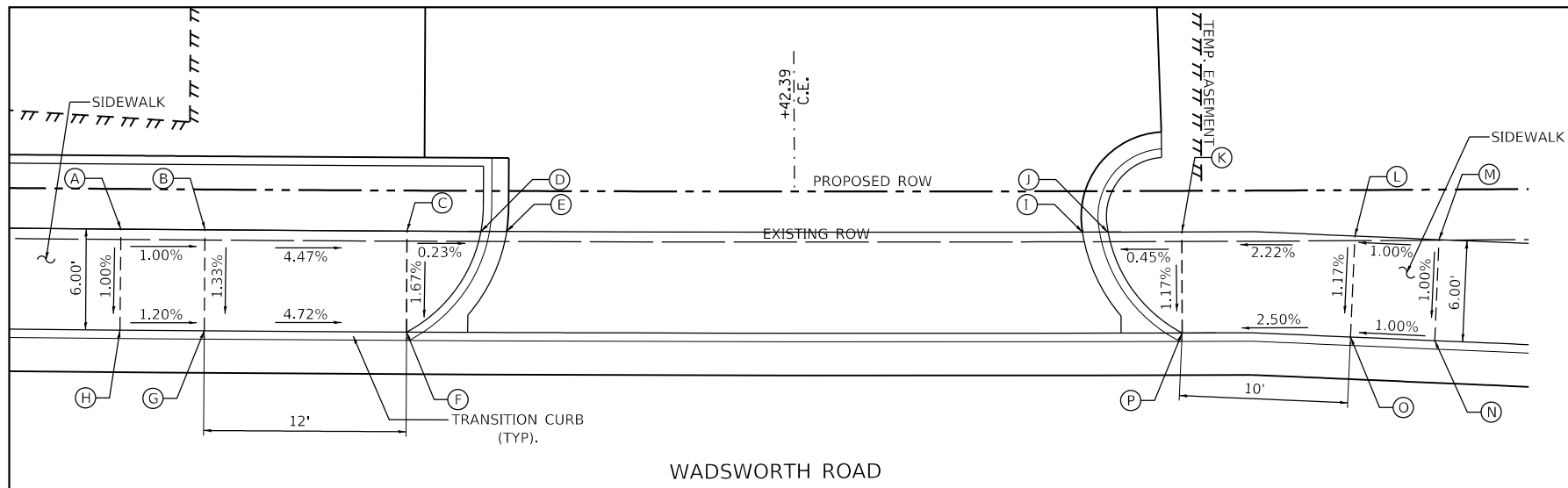
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PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA PEDESTRIAN RAMP DETAILS
WADSWORTH ROAD**

SCALE: 1"=5' SHEET 1 OF 8 SHEETS STA. TO STA.

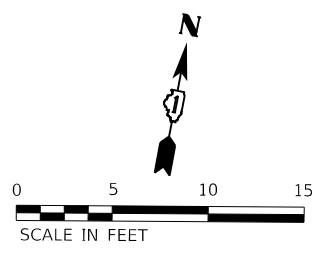
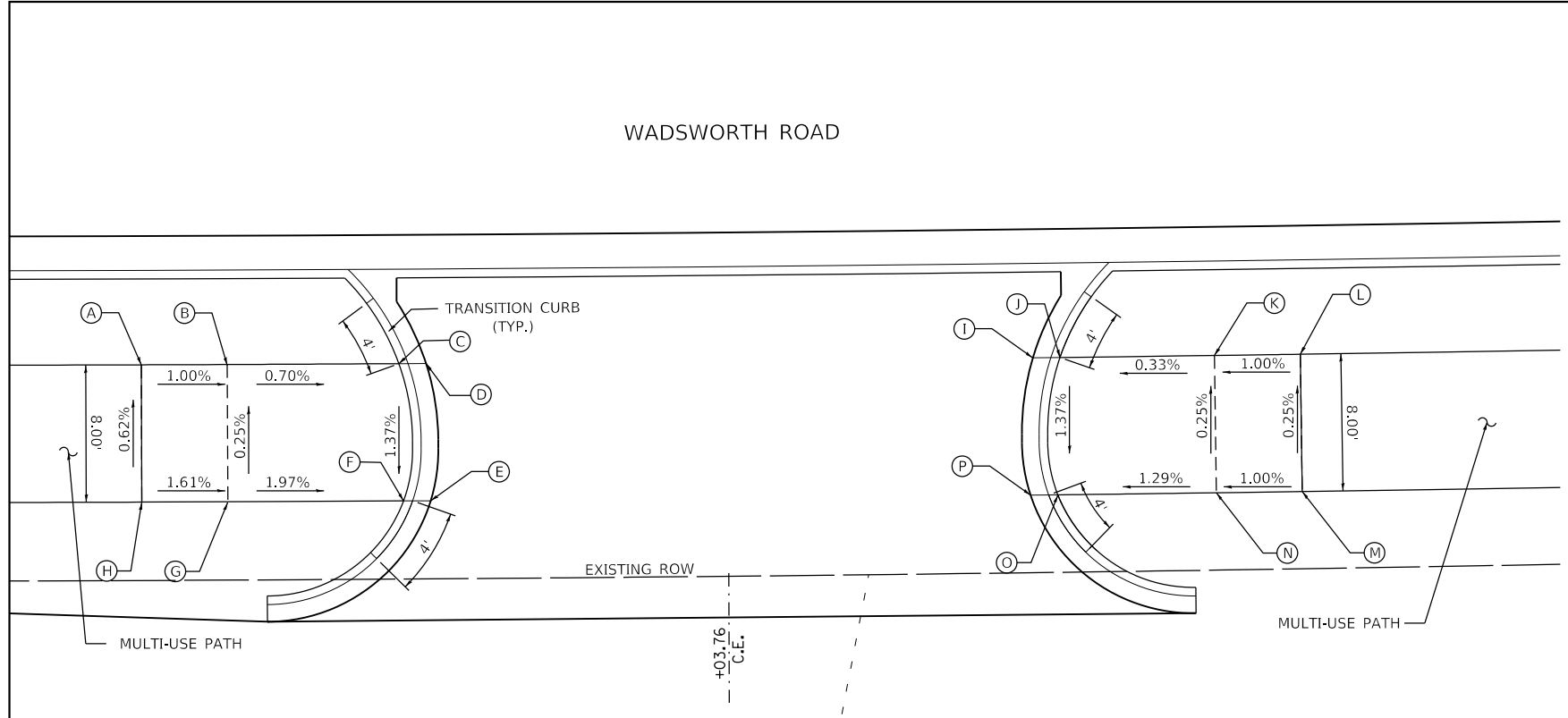
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	112
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



RAMP SUMMARY				
POINT	STA.	OFFSET	ELEV.	
A	124+02.67	39.50	LT	692.42
B	124+07.70	39.50	LT	692.37
C	124+19.77	39.49	LT	691.83
D	124+24.19	39.49	LT	691.82
E	124+25.72	39.49	LT	691.88
F	124+19.77	33.50	LT	691.73
G	124+07.70	33.50	LT	692.30
H	124+02.68	33.50	LT	692.36
I	124+60.13	39.50	LT	691.20
J	124+61.66	39.50	LT	691.19

RAMP SUMMARY				
POINT	STA.	OFFSET	ELEV.	
K	124+66.06	39.50	LT	691.21
L	124+76.40	39.21	LT	691.44
M	124+81.43	38.97	LT	691.49
N	124+81.14	32.98	LT	691.43
O	124+76.11	33.22	LT	691.38
P	124+66.06	33.50	LT	691.13

ADA PEDESTRIAN RAMP DETAILS



RAMP SUMMARY				
POINT	STA.	OFFSET	ELEV.	
A	124+69.67	28.50	RT	692.30
B	124+74.65	28.50	RT	692.25
C	124+84.60	28.50	RT	692.18
D	124+86.17	28.50	RT	692.24
E	124+86.39	36.50	RT	692.13
F	124+84.82	36.50	RT	692.07
G	124+74.65	36.50	RT	692.27
H	124+69.68	36.50	RT	692.35
I	125+21.34	28.50	RT	692.01
J	125+22.92	28.50	RT	691.95

RAMP SUMMARY				
POINT	STA.	OFFSET	ELEV.	
K	125+31.88	28.50	RT	691.98
L	125+36.85	28.50	RT	692.05
M	125+36.85	36.50	RT	692.03
N	125+31.88	36.50	RT	692.00
O	125+22.70	36.50	RT	691.84
P	125+21.12	36.50	RT	691.90

ADA PEDESTRIAN RAMP DETAILS

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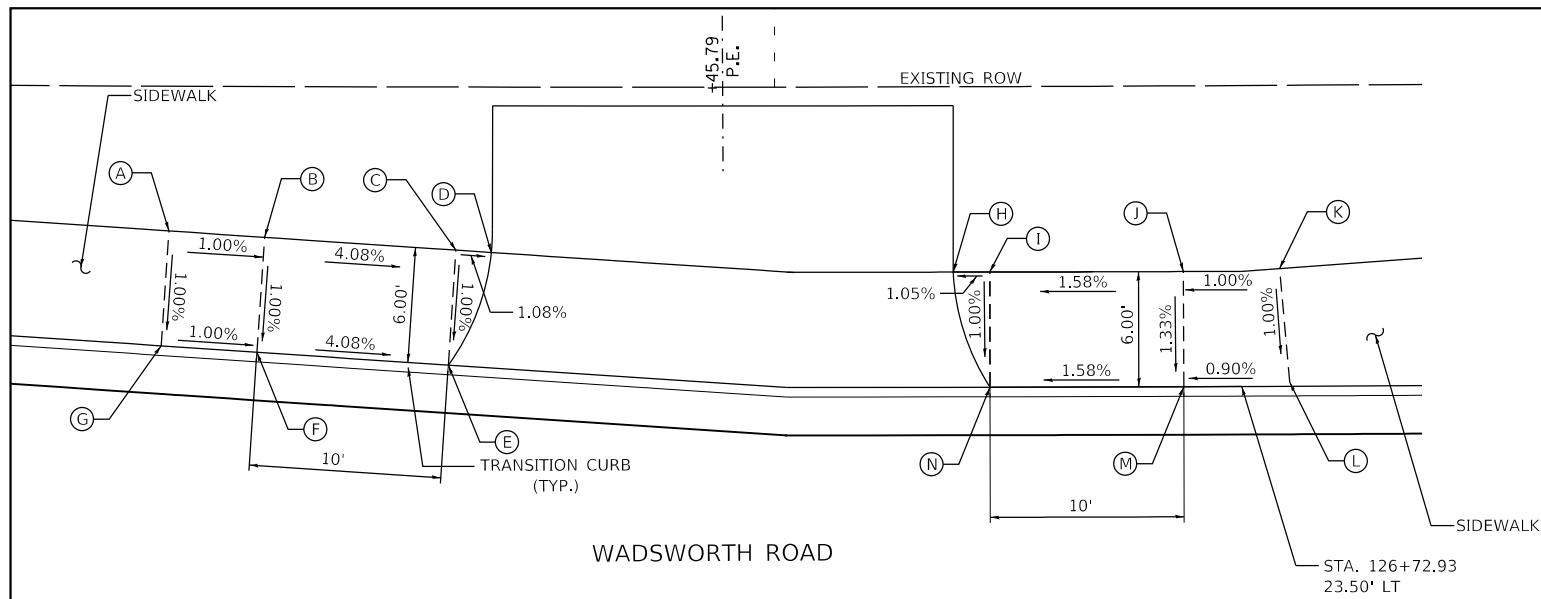
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	DATE - 09/28/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA PEDESTRIAN RAMP DETAILS
WADSWORTH ROAD**

SCALE: 1"=5' SHEET 2 OF 8 SHEETS STA. TO STA.

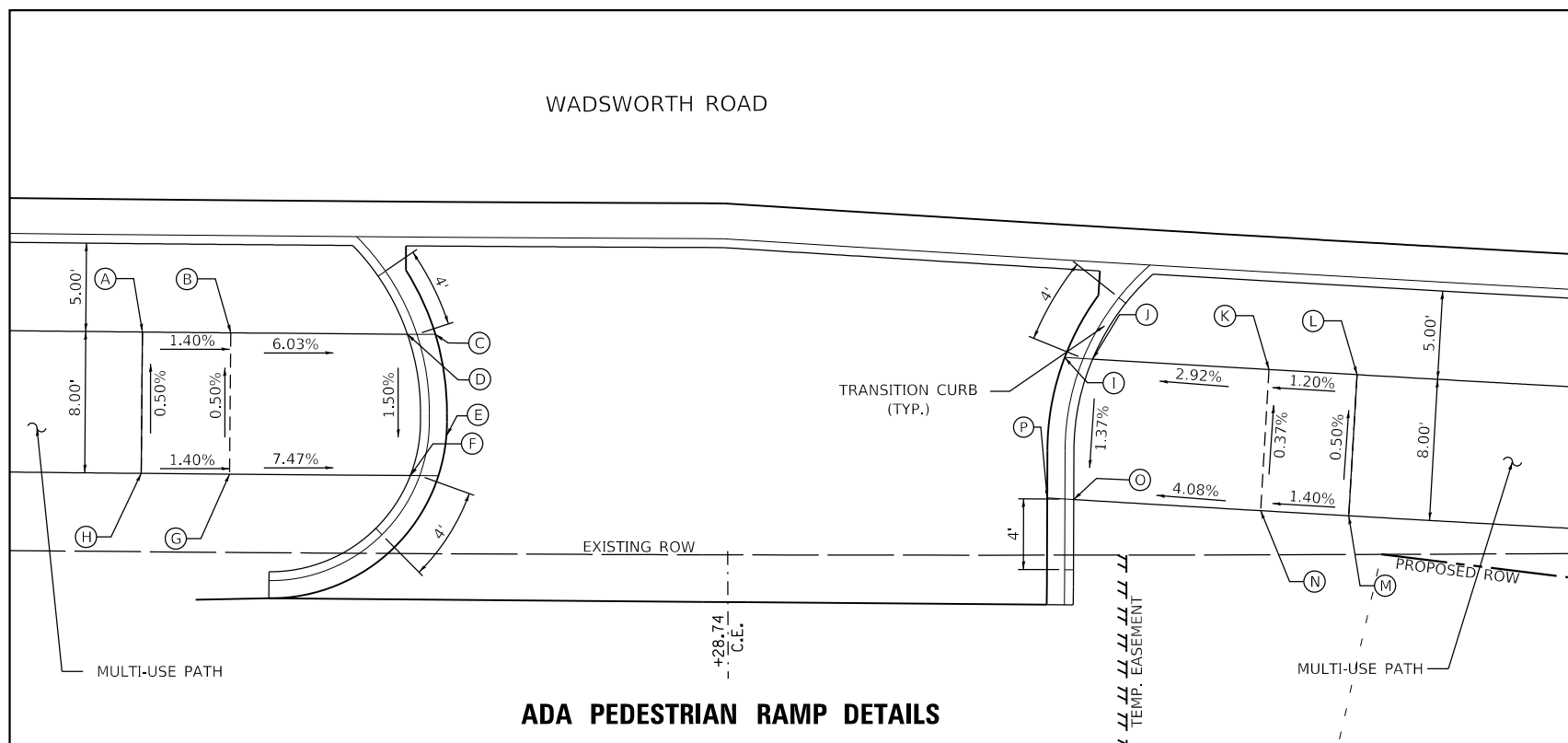
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1209	13-00055-06-WR	LAKE	228	113
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



ADA PEDESTRIAN RAMP DETAILS

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	126+16.77	31.56	LT	690.48
B	126+21.78	31.25	LT	690.43
C	126+31.81	30.62	LT	690.02
D	126+33.66	30.50	LT	690.00
E	126+31.43	24.63	LT	689.96
F	126+21.41	25.26	LT	690.37
G	126+16.39	25.57	LT	690.42

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
H	126+57.86	29.50	LT	689.76
I	126+59.77	29.50	LT	689.78
J	126+69.90	29.50	LT	689.94
K	126+74.94	29.64	LT	689.99
L	126+75.44	23.71	LT	689.93
M	126+69.90	23.50	LT	689.88
N	126+59.77	23.50	LT	689.72



ADA PEDESTRIAN RAMP DETAILS

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	125+94.37	28.50	RT	691.43
B	125+99.34	28.50	RT	691.36
C	126+09.29	28.50	RT	690.76
D	126+10.87	28.50	RT	690.82
E	126+11.08	36.50	RT	690.70
F	126+09.51	36.50	RT	690.64
G	125+99.34	36.50	RT	691.40
H	125+94.37	36.50	RT	691.47
I	126+46.32	29.67	RT	690.58
J	126+47.89	29.76	RT	690.52

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
K	126+57.82	30.36	RT	690.81
L	126+62.79	30.66	RT	690.87
M	126+62.31	38.65	RT	690.91
N	126+57.35	38.35	RT	690.84
O	126+46.83	37.71	RT	690.41
P	126+45.34	37.62	RT	690.47

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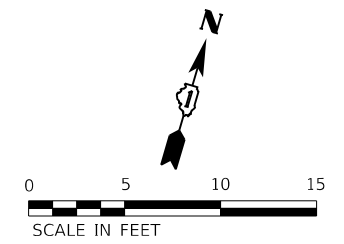
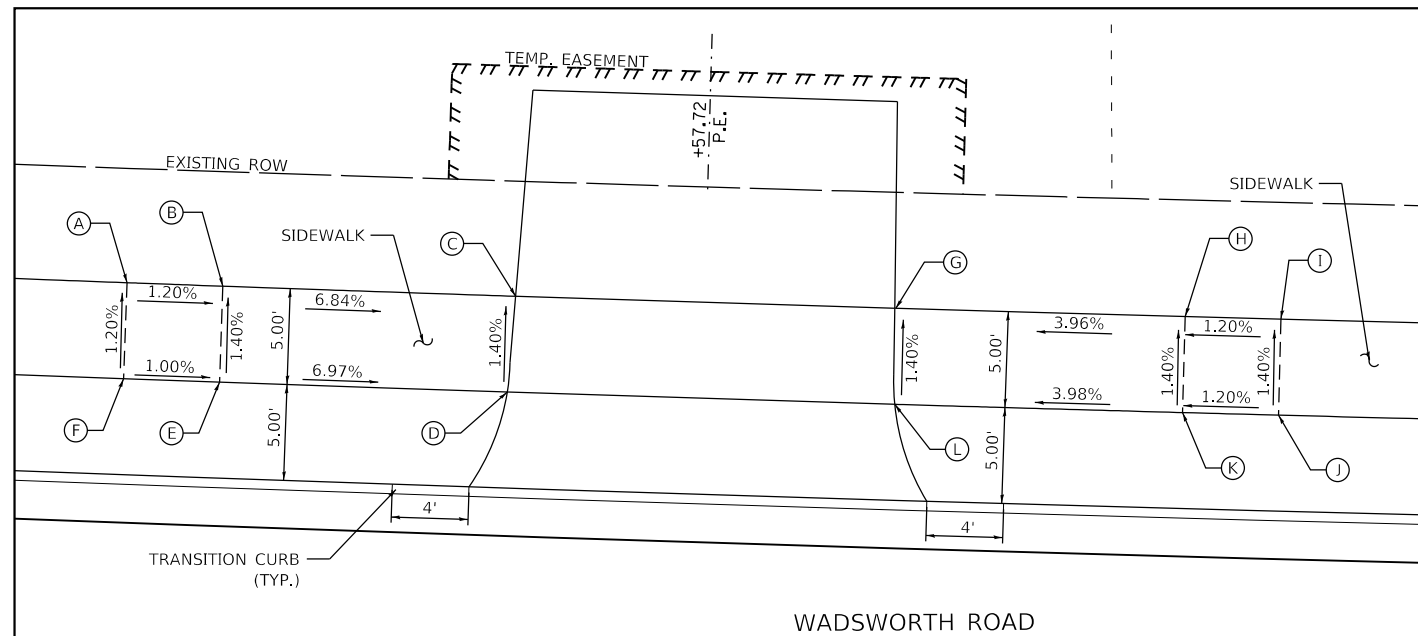
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PEDESTRIAN RAMP DETAILS
WADSWORTH ROAD

SCALE: 1"=5' SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	114
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

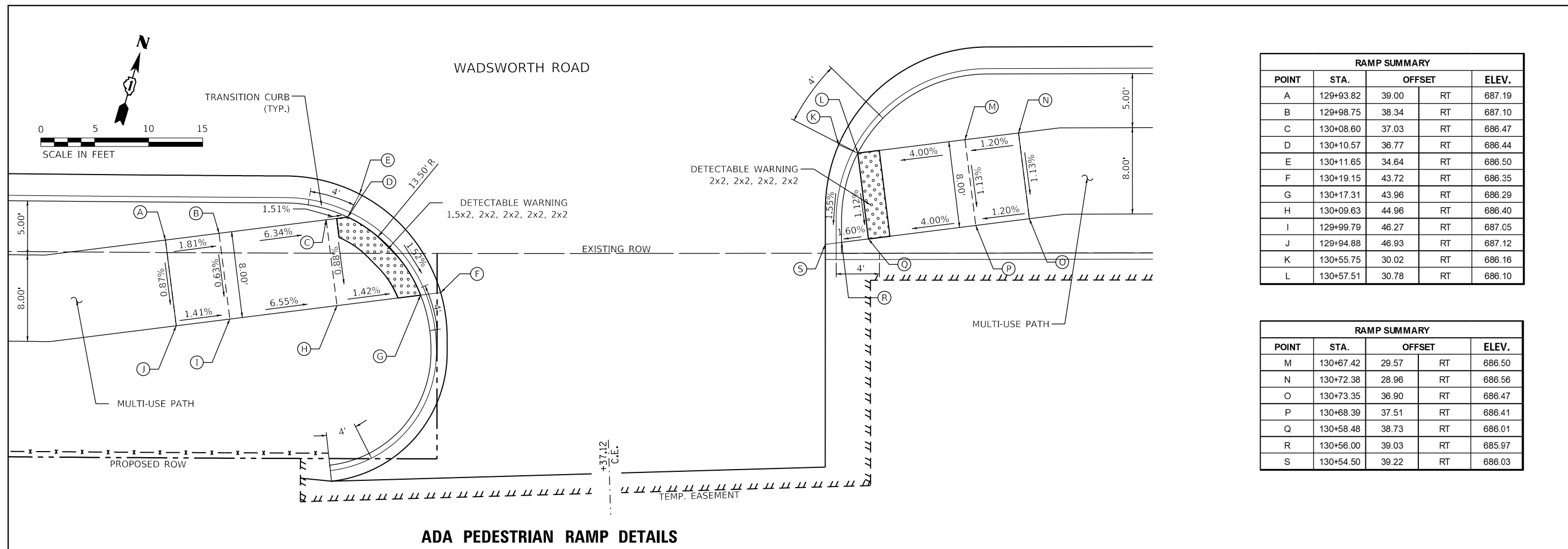


RAMP SUMMARY			
POINT	STA.	OFFSET	ELEV.
A	128+27.48	33.50 LT	688.32
B	128+32.50	33.50 LT	688.26
C	128+47.85	33.50 LT	687.21
D	128+47.58	28.50 LT	687.28
E	128+32.51	28.50 LT	688.33
F	128+27.48	28.50 LT	688.38

RAMP SUMMARY			
POINT	STA.	OFFSET	ELEV.
G	128+67.78	33.50 LT	686.99
H	128+82.95	33.50 LT	687.59
I	128+87.97	33.50 LT	687.65
J	128+87.97	28.50 LT	687.72
K	128+82.95	28.50 LT	687.66
L	128+67.87	28.50 LT	687.06

WADSWORTH ROAD

ADA PEDESTRIAN RAMP DETAILS



RAMP SUMMARY			
POINT	STA.	OFFSET	ELEV.
A	129+93.82	39.00 RT	687.19
B	129+98.75	38.34 RT	687.10
C	130+08.60	37.03 RT	686.47
D	130+10.57	36.77 RT	686.44
E	130+11.65	34.64 RT	686.50
F	130+19.15	43.72 RT	686.35
G	130+17.31	43.96 RT	686.29
H	130+09.63	44.96 RT	686.40
I	129+99.79	46.27 RT	687.05
J	129+94.88	46.93 RT	687.12
K	130+55.75	30.02 RT	686.16
L	130+57.51	30.78 RT	686.10

RAMP SUMMARY			
POINT	STA.	OFFSET	ELEV.
M	130+67.42	29.57 RT	686.50
N	130+72.38	28.96 RT	686.56
O	130+73.35	36.90 RT	686.47
P	130+68.39	37.51 RT	686.41
Q	130+58.48	38.73 RT	686.01
R	130+56.00	39.03 RT	685.97
S	130+54.50	39.22 RT	686.03

ADA PEDESTRIAN RAMP DETAILS

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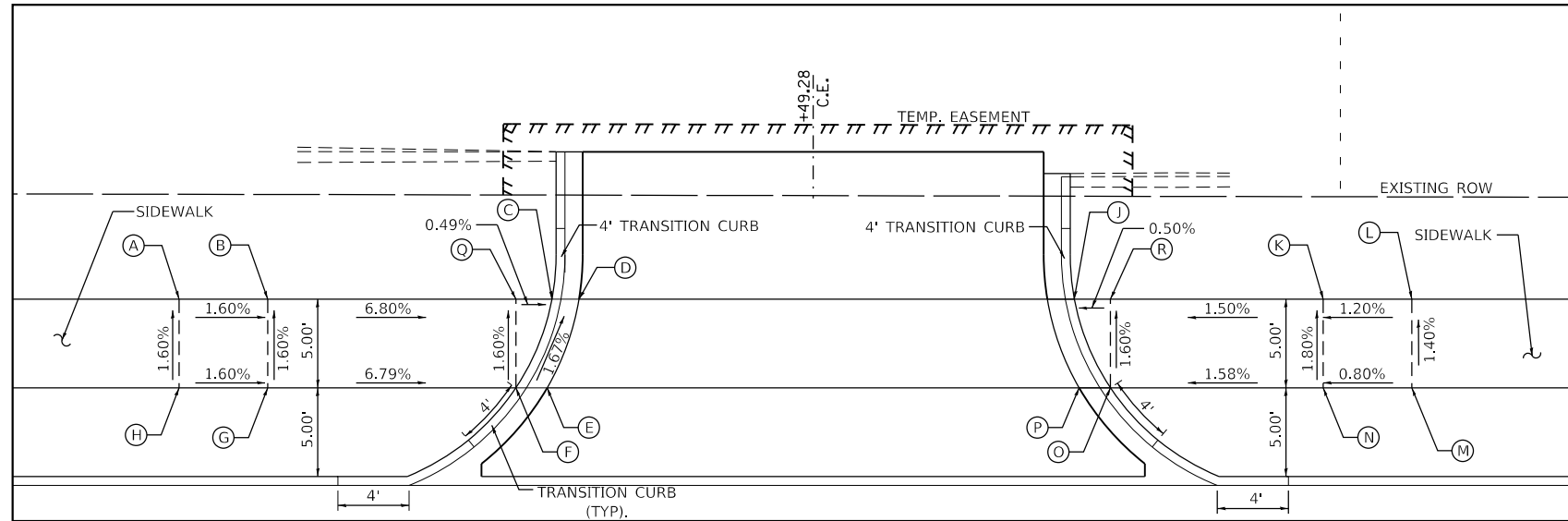
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**ADA PEDESTRIAN RAMP DETAILS
WADSWORTH ROAD**

SCALE: 1"=5' SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	115
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

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WADSWORTH ROAD

ADA PEDESTRIAN RAMP DETAILS

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	133+13.51	33.50	LT	683.67
B	133+18.51	33.50	LT	683.59
C	133+34.55	33.50	LT	682.63
D	133+36.07	33.50	LT	682.64
E	133+34.27	28.50	LT	682.73
F	133+32.51	28.50	LT	682.72
G	133+18.51	28.50	LT	683.67
H	133+13.51	28.50	LT	683.75
I	133+62.49	33.50	LT	682.34
J	133+64.02	33.50	LT	682.33
K	133+78.06	33.50	LT	682.52

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
L	133+83.06	33.50	LT	682.58
M	133+83.06	28.50	LT	682.65
N	133+78.06	28.50	LT	682.61
O	133+66.06	28.50	LT	682.42
P	133+64.29	28.50	LT	682.43
Q	133+32.49	33.50	LT	682.64
R	133+66.06	33.50	LT	682.34



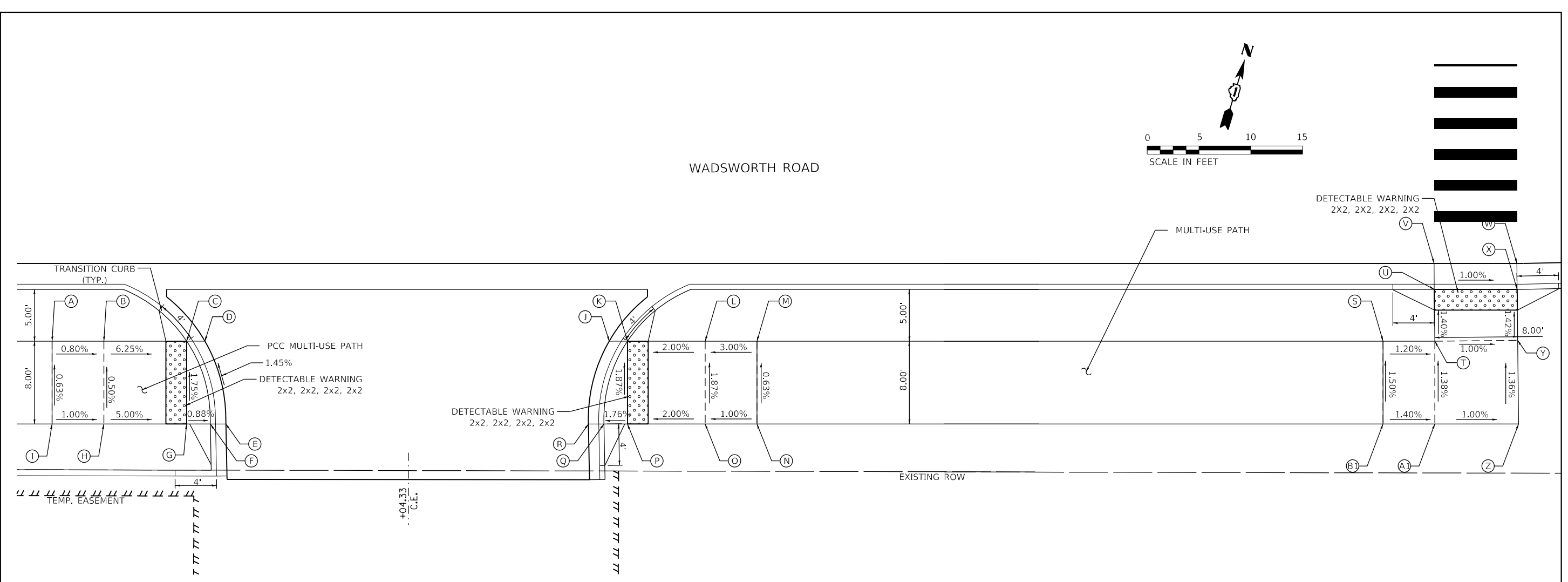
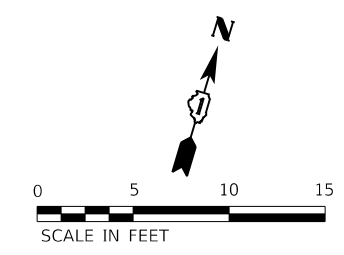
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PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**ADA PEDESTRIAN RAMP DETAILS
WADSWORTH ROAD**

SCALE: 1"=5' SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	116
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



ADA PEDESTRIAN RAMP DETAILS

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	13469.93	28.50	RT	681.80
B	13474.93	28.50	RT	681.76
C	13482.93	28.50	RT	681.26
D	13484.69	28.50	RT	681.27
E	13486.71	36.50	RT	681.39
F	13485.21	36.50	RT	681.38
G	13482.93	36.50	RT	681.40
H	13474.93	36.50	RT	681.80
I	13469.93	36.50	RT	681.85
J	13523.72	28.50	RT	680.86
K	13525.49	28.50	RT	680.85

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
L	135+32.99	28.50	RT	681.00
M	135+37.99	28.50	RT	681.15
N	135+37.99	36.50	RT	681.20
O	135+32.99	36.50	RT	681.15
P	135+25.49	36.50	RT	681.00
Q	135+23.22	36.50	RT	680.96
R	135+21.72	36.50	RT	680.97
S	136+08.44	28.50	RT	679.73
T	13613.44	28.50	RT	679.67
U	13613.39	23.50	RT	679.60
V	13613.37	21.00	RT	679.66

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
W	136+21.37	21.00	RT	679.58
X	136+21.39	23.50	RT	679.52
Y	136+21.44	28.42	RT	679.59
Z	136+21.52	36.50	RT	679.70
A1	136+13.44	36.50	RT	679.78
B1	136+08.44	36.50	RT	679.85

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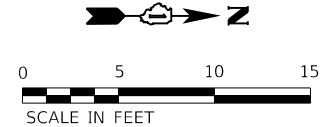
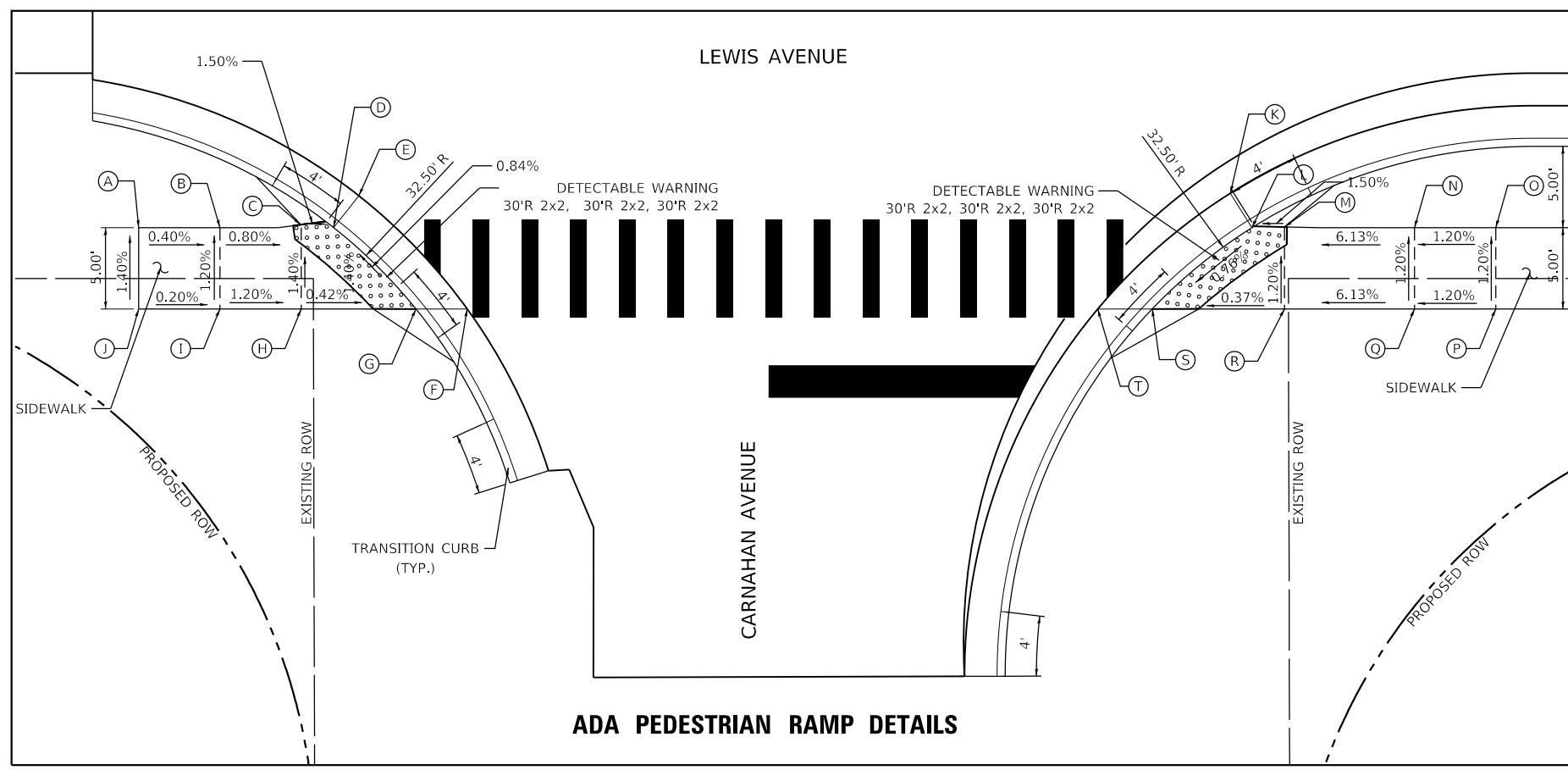
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PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**ADA PEDESTRIAN RAMP DETAILS
WADSWORTH ROAD**

SCALE: 1"=5' SHEET 6 OF 8 SHEETS STA. TO STA.

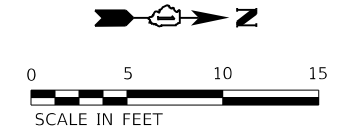
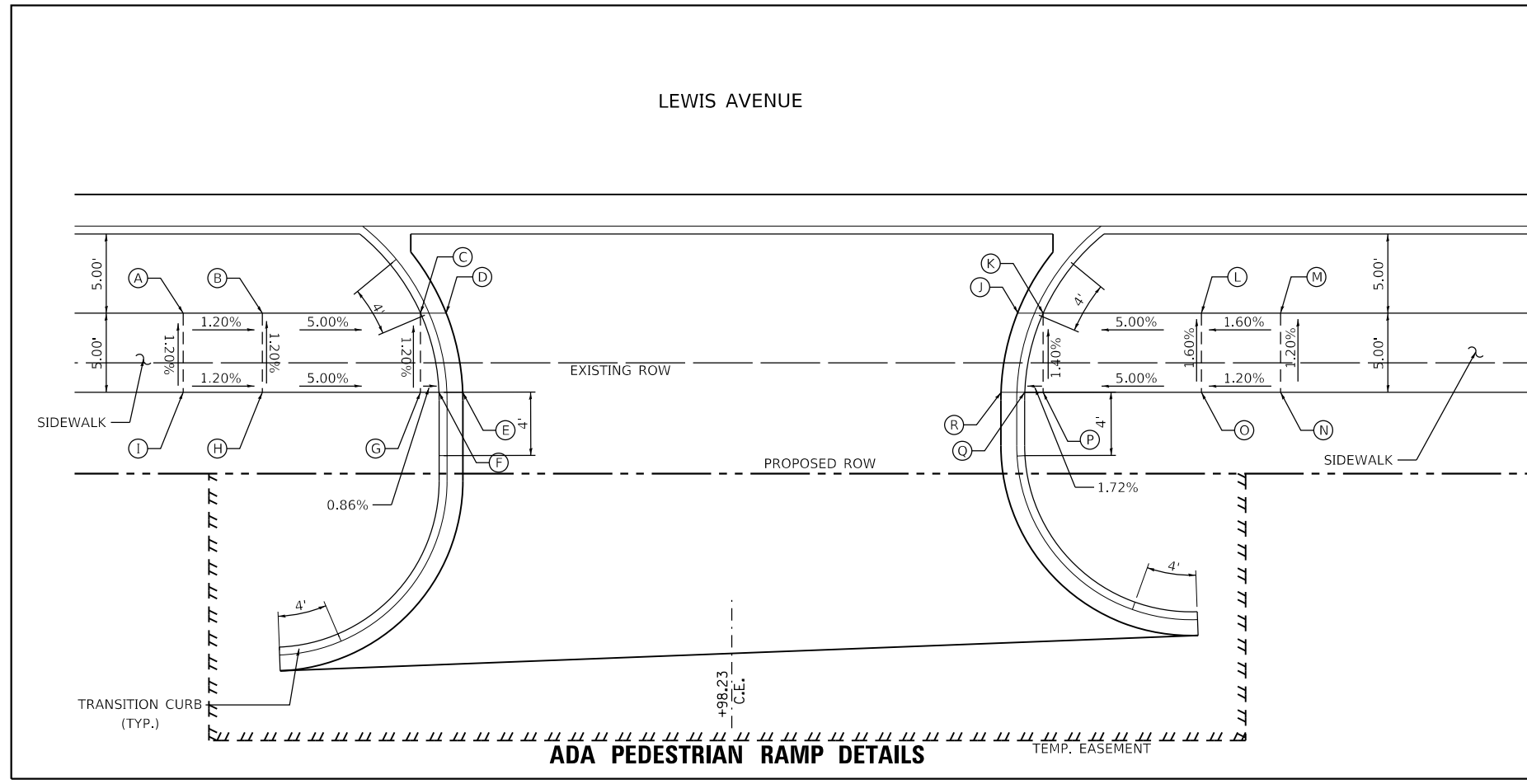
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	117
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



ADA PEDESTRIAN RAMP DETAILS

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	217+71.54	37.00	RT	690.70
B	217+76.54	37.00	RT	690.68
C	217+81.54	37.00	RT	690.64
D	217+83.54	37.00	RT	690.61
E	217+85.09	35.04	RT	690.67
F	217+91.76	42.00	RT	690.73
G	217+88.61	42.00	RT	690.67
H	217+81.54	42.00	RT	690.70
I	217+76.54	42.00	RT	690.76
J	217+71.54	42.00	RT	690.77
K	218+38.72	34.88	RT	691.48
L	218+40.05	37.00	RT	691.42

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
M	218+42.05	37.00	RT	691.45
N	218+50.05	37.00	RT	691.94
O	218+55.05	37.00	RT	692.00
P	218+55.05	42.00	RT	692.06
Q	218+50.05	42.00	RT	692.00
R	218+42.05	42.00	RT	691.51
S	218+33.92	42.00	RT	691.48
T	218+30.56	42.00	RT	691.54



ADA PEDESTRIAN RAMP DETAILS

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
A	21963.56	37.00	RT	694.07
B	21968.56	37.00	RT	694.01
C	21978.56	37.00	RT	693.51
D	21980.18	37.00	RT	693.52
E	21981.22	42.00	RT	693.57
F	21979.72	42.00	RT	693.56
G	21978.56	42.00	RT	693.57
H	21968.56	42.00	RT	694.07
I	21963.56	42.00	RT	694.13
J	22016.32	37.00	RT	693.71
K	22017.9	37.00	RT	693.70

RAMP SUMMARY				
POINT	STA.	OFFSET		ELEV.
L	220+27.90	37.00	RT	694.20
M	220+32.90	37.00	RT	694.28
N	220+32.90	42.00	RT	694.34
O	220+27.90	42.00	RT	694.28
P	220+17.90	42.00	RT	693.78
Q	220+16.74	42.00	RT	693.76
R	220+15.24	42.00	RT	693.77

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USER NAME = BenhamJ	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - DNP	REVISED -
PLOT DATE = 11/2/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

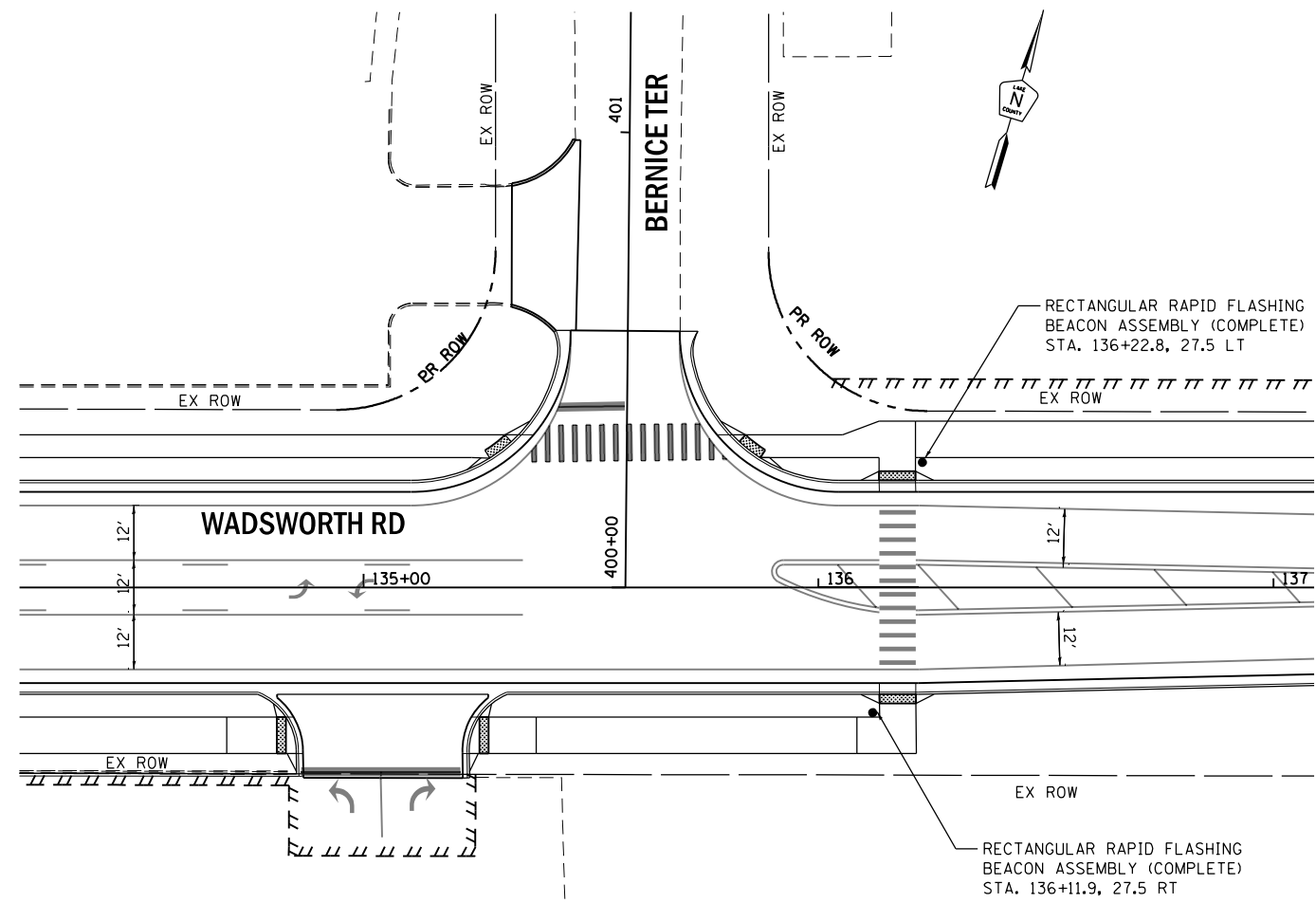
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PEDESTRIAN RAMP DETAILS
LEWIS AVENUE

SCALE: 1"=5' SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	119
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

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ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QUANTITY
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2

NOTES:
 SEE LCDOT STANDARD DRAWING LC8502, RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM, FOR ADDITIONAL DETAILS.
 THIS INSTALLATION SHALL BE SOLAR POWERED.
 SEE SIGNING PLANS FOR LOCATION OF R1-5b SIGNS.



USER NAME	■ dwtorzak	DESIGNED	- ZH	REVISED	-
DRAWN	- RG	CHECKED	- DW	REVISED	-
PLOT SCALE	■ 40,0000 * / in.	DATE	- 09/29/2023	REVISED	-
PLOT DATE	■ 9/27/2023				

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RRFB INSTALLATION PLAN
WADSWORTH RD AT BERNICE TERR

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	120
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

REMOVAL NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: LAKE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH UPS (COMPLETE)
- 1 EACH FIBER ENCLOSURE
- 2 EACH CONFIRMATION BEACONS
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR FROM THE EXISTING TRAFFIC SIGNAL INSTALLATION, RELOCATED TO THE TEMPORARY TRAFFIC INSTALLATION AND RETURNED TO THE LISTED AGENCY AT THE END OF CONSTRUCTION AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: LAKE COUNTY DIVISION OF TRANSPORTATION

- 1 EACH VIDEO ENCODER
- 1 EACH LAYER II (DATALINK) SWITCH
- 1 EACH REMOTE CONTROLLED VIDEO SYSTEM

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 8 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 8 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 5 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH STEEL MAST ARM AND POLE
- 2 EACH ALUMINIUM MAST ARM AND POLE
- 4 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 1 EACH CONTROLLER AND CABINET

NOTES FOR TEMPORARY TRAFFIC SIGNALS:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY CONTRACTOR.
2. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIA. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMER SHALL BE USED WHEN EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTING STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
3. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
4. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROLLER EQUIPMENT.
5. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENT AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
6. TRAFFIC SIGNALS MANAGEMENT SYSTEMS SHALL BE MAINTAIN IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

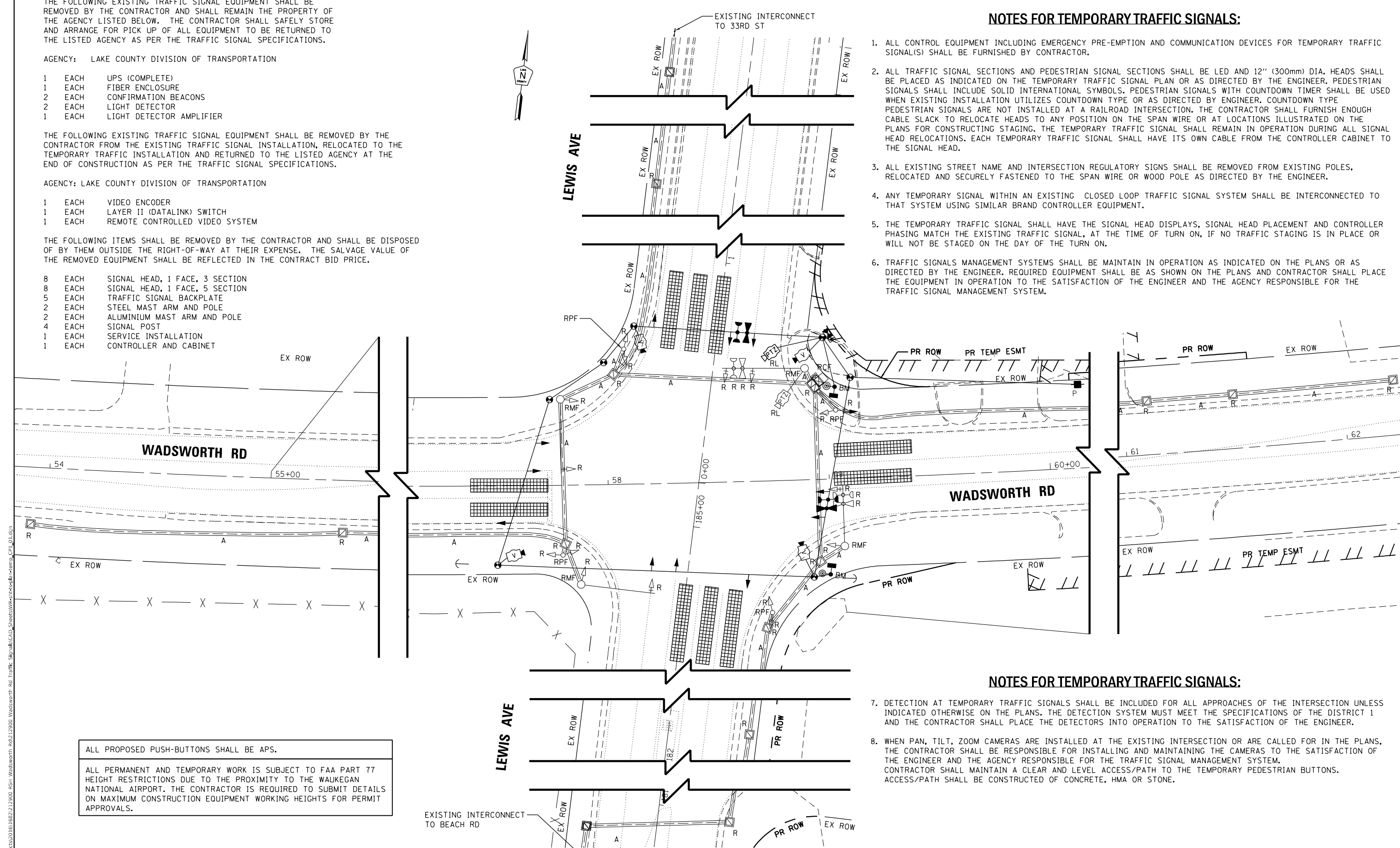
NOTES FOR TEMPORARY TRAFFIC SIGNALS:

7. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF THE DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
8. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM. CONTRACTOR SHALL MAINTAIN A CLEAR AND LEVEL ACCESS/PATH TO THE TEMPORARY PEDESTRIAN BUTTONS. ACCESS/PATH SHALL BE CONSTRUCTED OF CONCRETE, HMA OR STONE.

MODEL: Default
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ALL PROPOSED PUSH-BUTTONS SHALL BE APS.

ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.



USER NAME	■ Dwiktorzak	DESIGNED	- ZH	REVISED	-
DRAWN	- RG	CHECKED	- DW	REVISED	-
PLOT SCALE	■ 40.0000" / in.	DATE	- 09/29/2023	REVISED	-
PLOT DATE	■ 10/26/2023				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

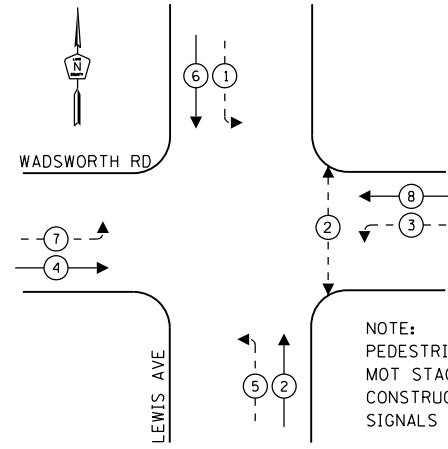
TEMPORARY SIGNAL PLAN
WADSWORTH RD AT LEWIS AVE

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	121
CONTRACT NO. 61K05				

ILLINOIS FED. AID PROJECT

PROPOSED CONTROLLER SEQUENCE

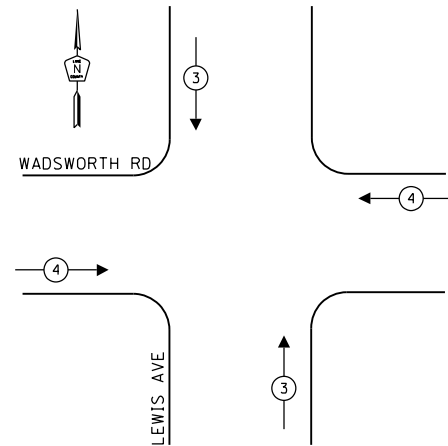


LEGEND:

- ← (⊙) → PROTECTED PHASE
- ← (⊙) - - PROTECTED/PERMITTED PHASE
- ← (⊙) → PEDESTRIAN PHASE
- ← (⊙) OL → OVERLAP

NOTE:
PEDESTRIAN PHASE 2 REQUIRED AFTER
MOT STAGE 2 (AFTER SIDEWALKS
CONSTRUCTED AND BEFORE PROPOSED
SIGNALS ARE OPERATIONAL).

**EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL
SERVICE REQUIREMENTS**

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	4	11	44
4-SECTION	-	14	-
5-SECTION	8	13	104
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	2	15	30
MASTER CONTROLLER	1	150	150
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			408
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			1,013

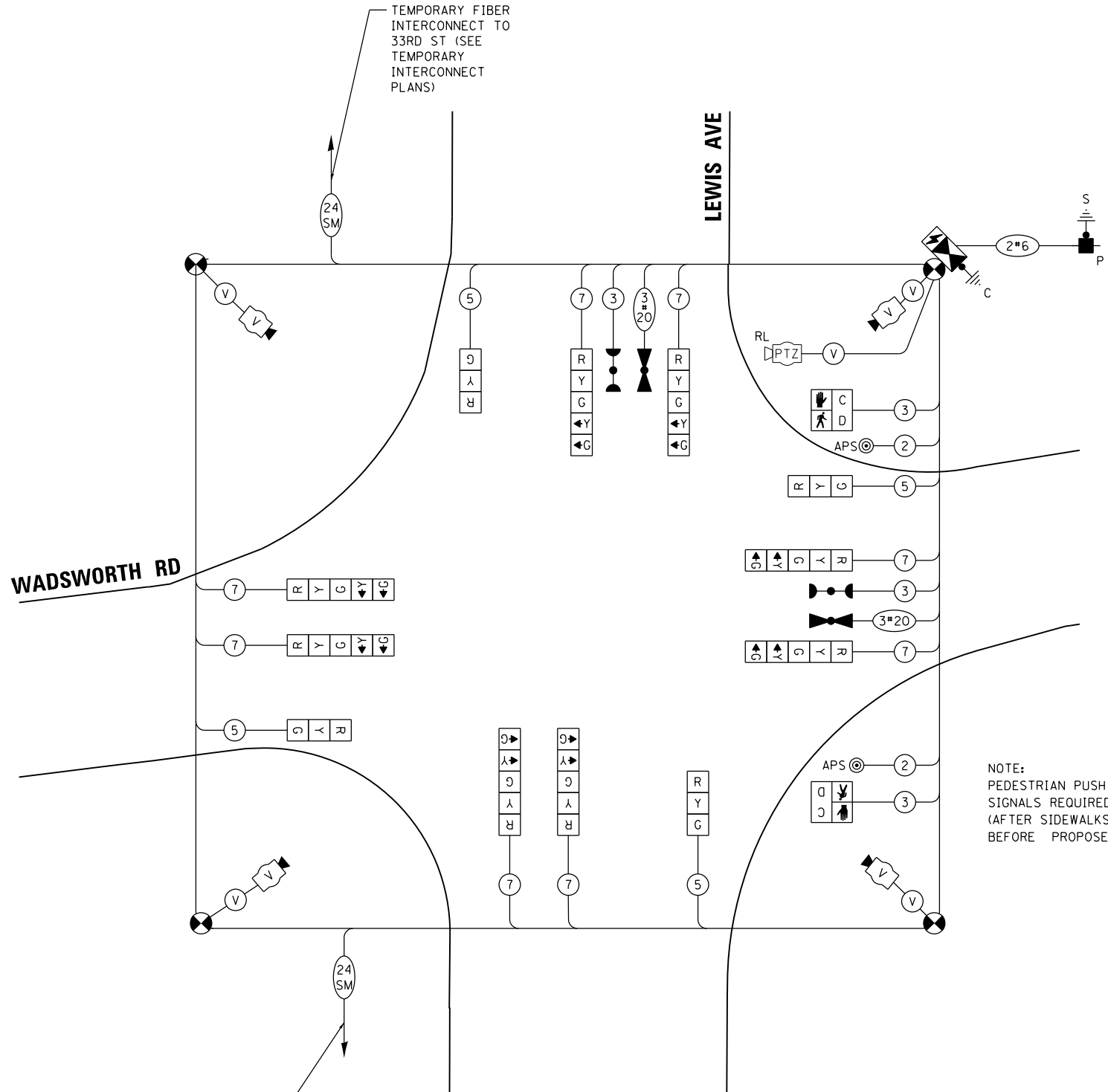
**ENERGY COSTS TO:
VILLAGE OF BEACH PARK**

11270 W. WADSWORTH RD
BEACH PARK, IL 60099

ENERGY SUPPLY:

CONTACT: DANIEL MENDEZ
PHONE: (773)-799-6111
COMPANY: COMED
ACCOUNT NUMBER:
METER NUMBER:

ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.



NOTE:
PEDESTRIAN PUSH BUTTONS AND PEDESTRIAN
SIGNALS REQUIRED AFTER STAGE 2
(AFTER SIDEWALKS ARE CONSTRUCTED AND
BEFORE PROPOSED SIGNALS ARE OPERATIONAL).

**TEMPORARY CABLE PLAN
(NOT TO SCALE)**



USER NAME: Dwiktorzak
DESIGNED: ZH
DRAWN: RG
CHECKED: DW
DATE: 09/29/2023

REVISIONS:
REVISED: -
REVISED: -
REVISED: -
REVISED: -

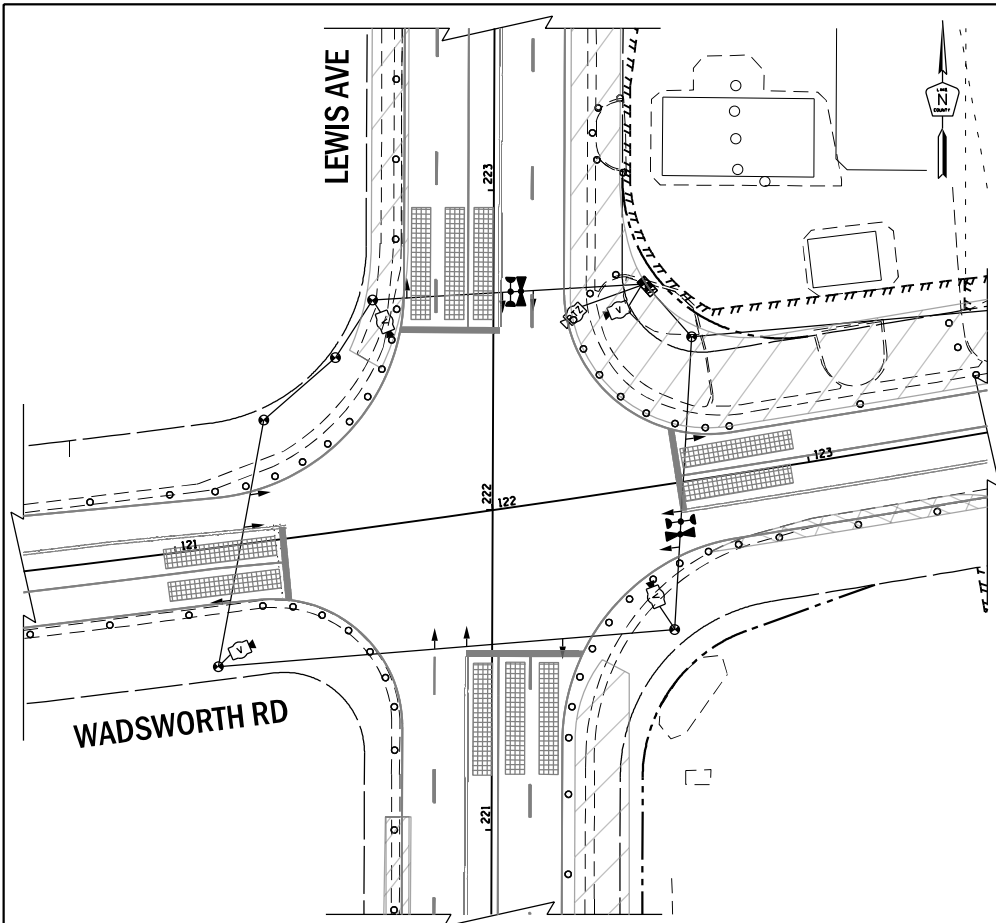
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN
WADSWORTH RD AT LEWIS AVE
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

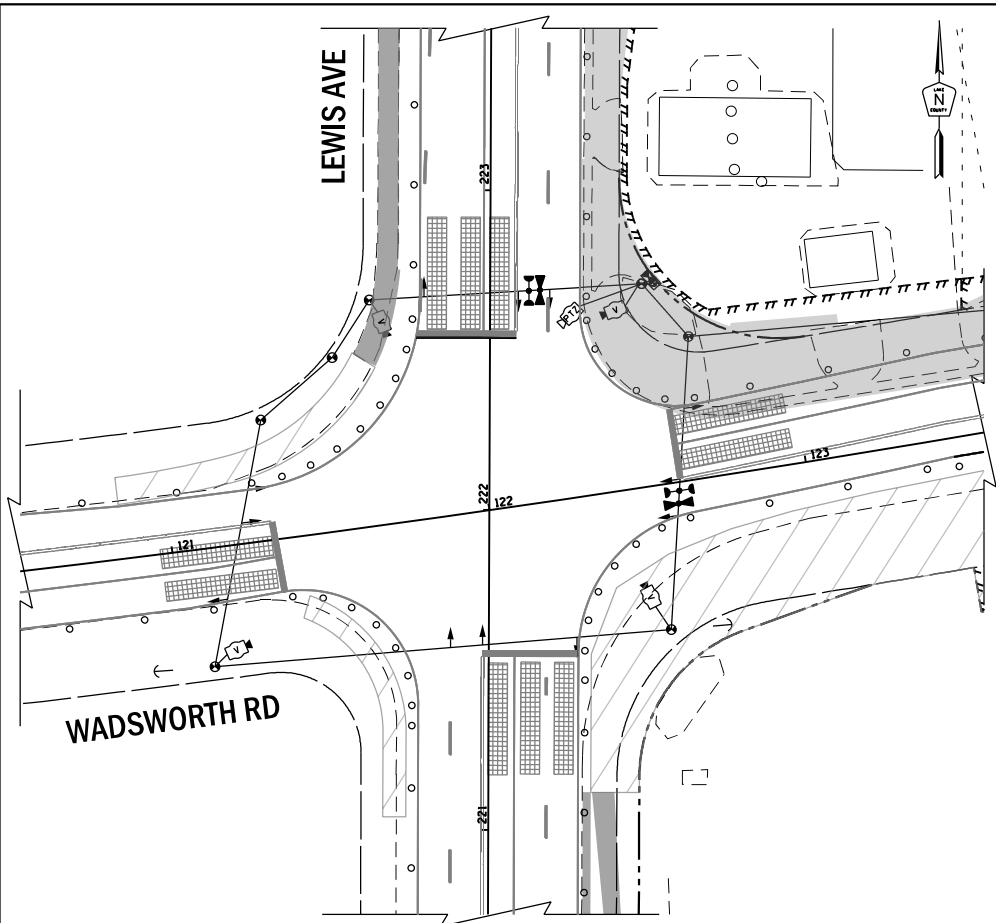
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	122

CONTRACT NO. 61K05
ILLINOIS FED. AID PROJECT

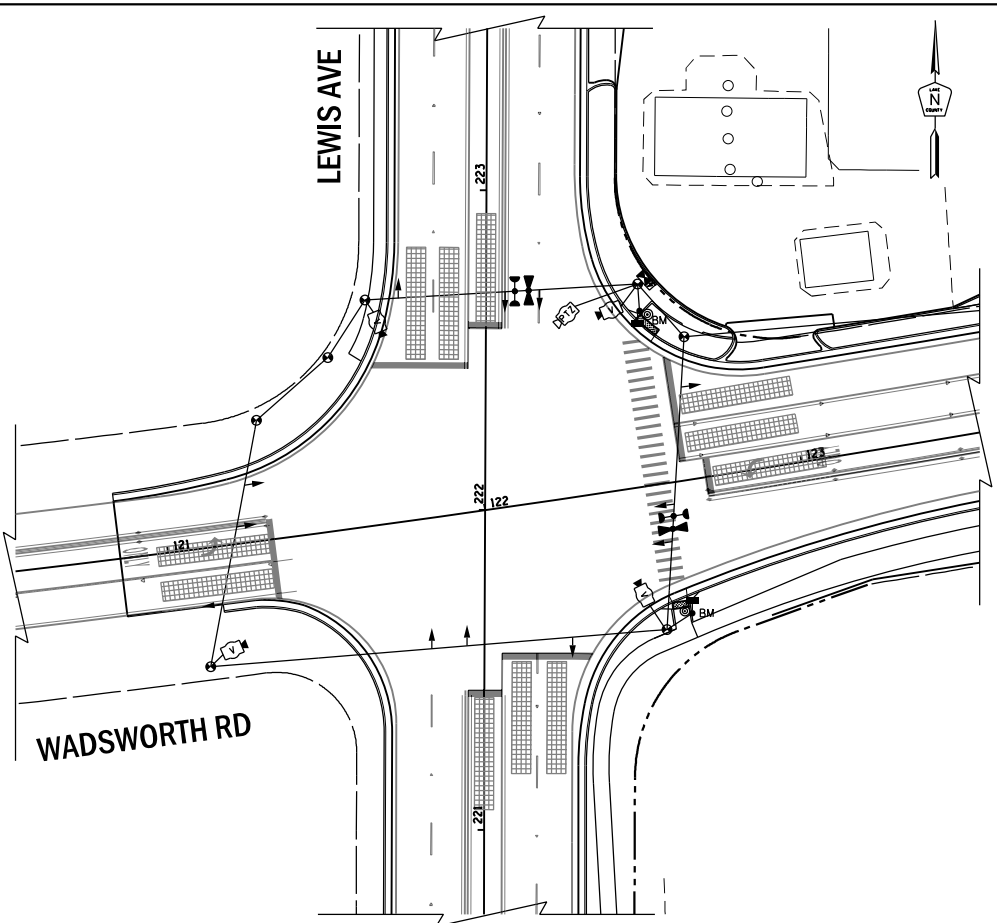
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PROJECT: 230909
DRAWN: DW
DATE: 10/26/2023



TEMPORARY TRAFFIC SIGNAL STAGE 1



TEMPORARY TRAFFIC SIGNAL STAGE 2



TEMPORARY TRAFFIC SIGNAL FINAL CONDITION

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USER NAME	dwiktorzak
PLOT SCALE	40.0000 * / in.
PLOT DATE	9/27/2023

DESIGNED	ZH
DRAWN	RG
CHECKED	DW
DATE	09/29/2023

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

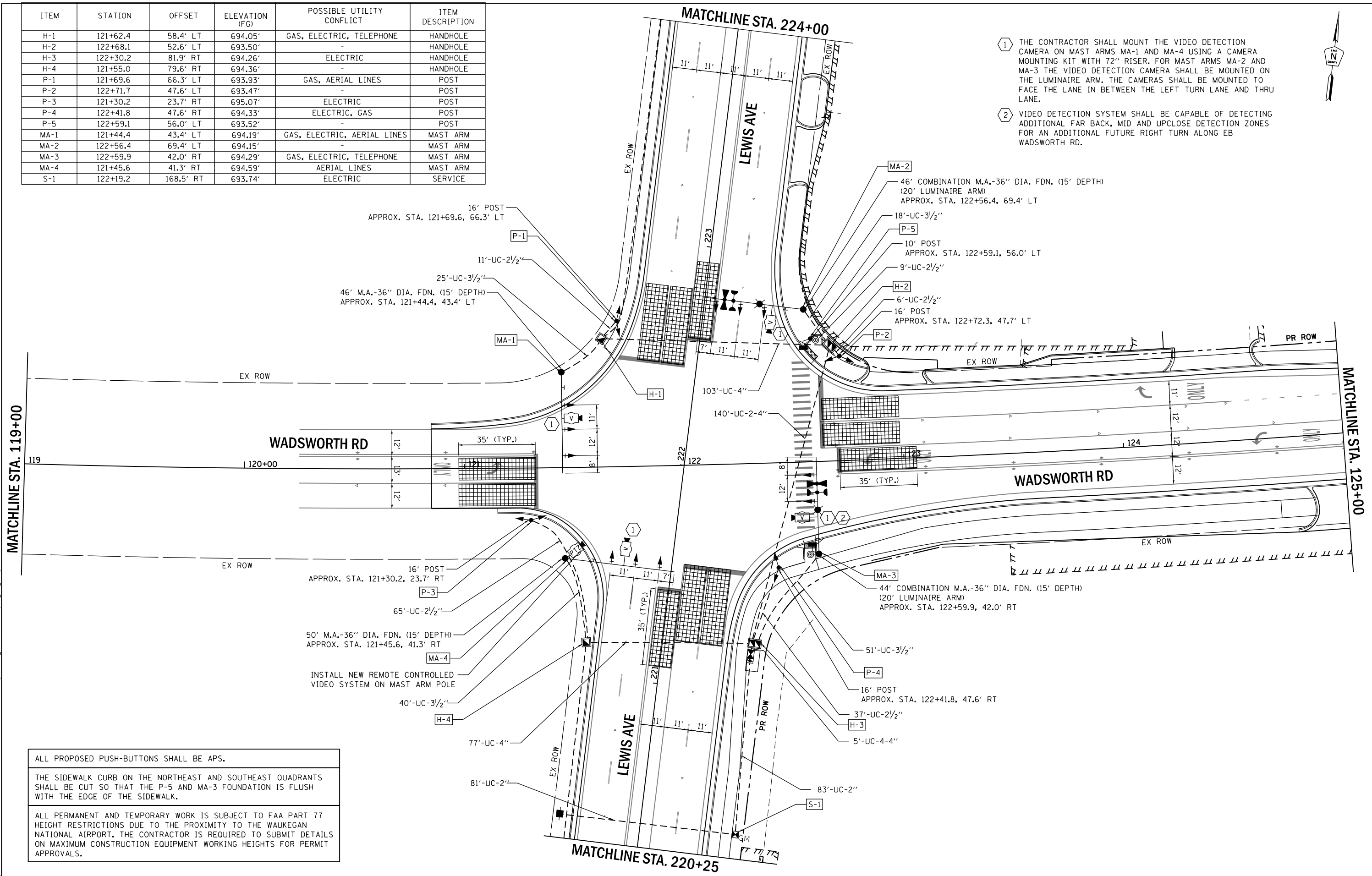
TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGING PLAN - WADSWORTH RD AT LEWIS AVE

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	123
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

ITEM	STATION	OFFSET	ELEVATION (FG)	POSSIBLE UTILITY CONFLICT	ITEM DESCRIPTION
H-1	121+62.4	58.4' LT	694.05'	GAS, ELECTRIC, TELEPHONE	HANDHOLE
H-2	122+68.1	52.6' LT	693.50'	-	HANDHOLE
H-3	122+30.2	81.9' RT	694.26'	ELECTRIC	HANDHOLE
H-4	121+55.0	79.6' RT	694.36'	-	HANDHOLE
P-1	121+69.6	66.3' LT	693.93'	GAS, AERIAL LINES	POST
P-2	122+71.7	47.6' LT	693.47'	-	POST
P-3	121+30.2	23.7' RT	695.07'	ELECTRIC	POST
P-4	122+41.8	47.6' RT	694.33'	ELECTRIC, GAS	POST
P-5	122+59.1	56.0' LT	693.52'	-	POST
MA-1	121+44.4	43.4' LT	694.19'	GAS, ELECTRIC, AERIAL LINES	MAST ARM
MA-2	122+56.4	69.4' LT	694.15'	-	MAST ARM
MA-3	122+59.9	42.0' RT	694.29'	GAS, ELECTRIC, TELEPHONE	MAST ARM
MA-4	121+45.6	41.3' RT	694.59'	AERIAL LINES	MAST ARM
S-1	122+19.2	168.5' RT	693.74'	ELECTRIC	SERVICE

- THE CONTRACTOR SHALL MOUNT THE VIDEO DETECTION CAMERA ON MAST ARMS MA-1 AND MA-4 USING A CAMERA MOUNTING KIT WITH 72" RISER. FOR MAST ARMS MA-2 AND MA-3 THE VIDEO DETECTION CAMERA SHALL BE MOUNTED ON THE LUMINAIRE ARM. THE CAMERAS SHALL BE MOUNTED TO FACE THE LANE IN BETWEEN THE LEFT TURN LANE AND THRU LANE.
- VIDEO DETECTION SYSTEM SHALL BE CAPABLE OF DETECTING ADDITIONAL FAR BACK, MID AND UPCLOSE DETECTION ZONES FOR AN ADDITIONAL FUTURE RIGHT TURN ALONG EB WADSWORTH RD.



ALL PROPOSED PUSH-BUTTONS SHALL BE APS.

THE SIDEWALK CURB ON THE NORTHEAST AND SOUTHEAST QUADRANTS SHALL BE CUT SO THAT THE P-5 AND MA-3 FOUNDATION IS FLUSH WITH THE EDGE OF THE SIDEWALK.

ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.

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USER NAME = zhoerbert	DESIGNED - ZH	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE = 11/3/2023	CHECKED - DW	REVISED -
	DATE - 09/29/2023	REVISED -

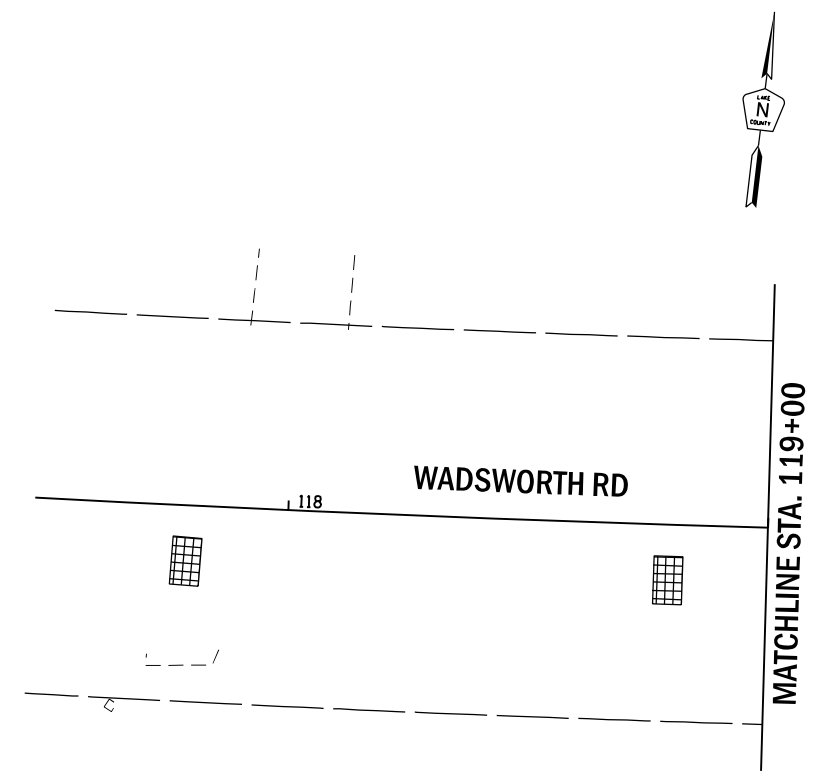
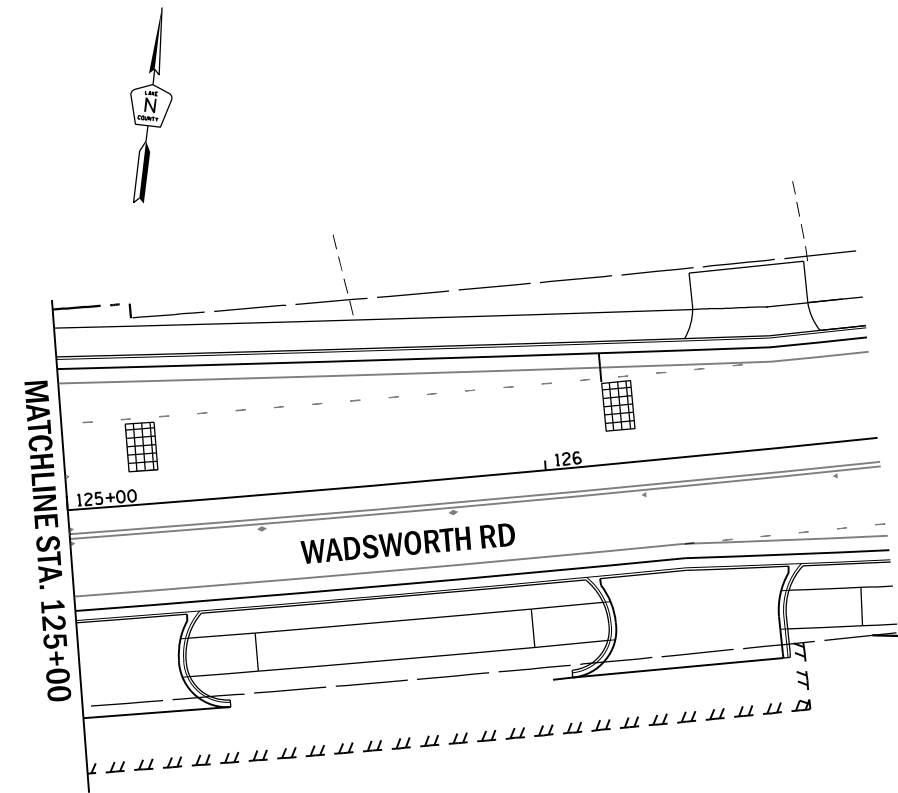
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
WADSWORTH RD AT LEWIS AVE - (SHEET 1 OF 2)

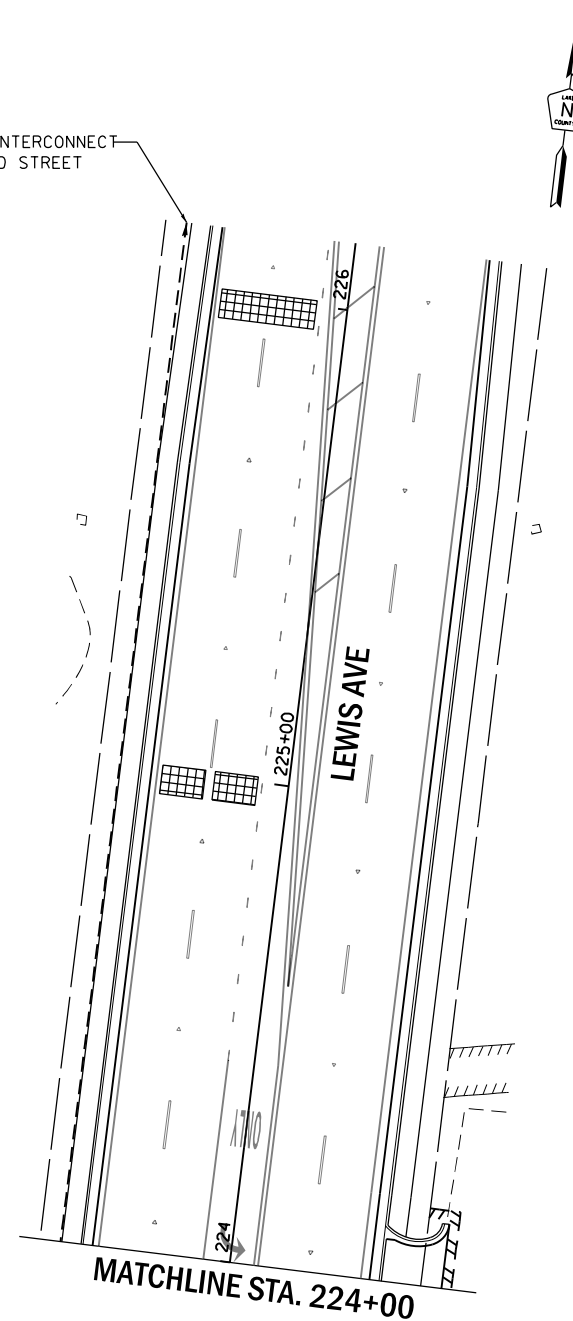
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	124
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

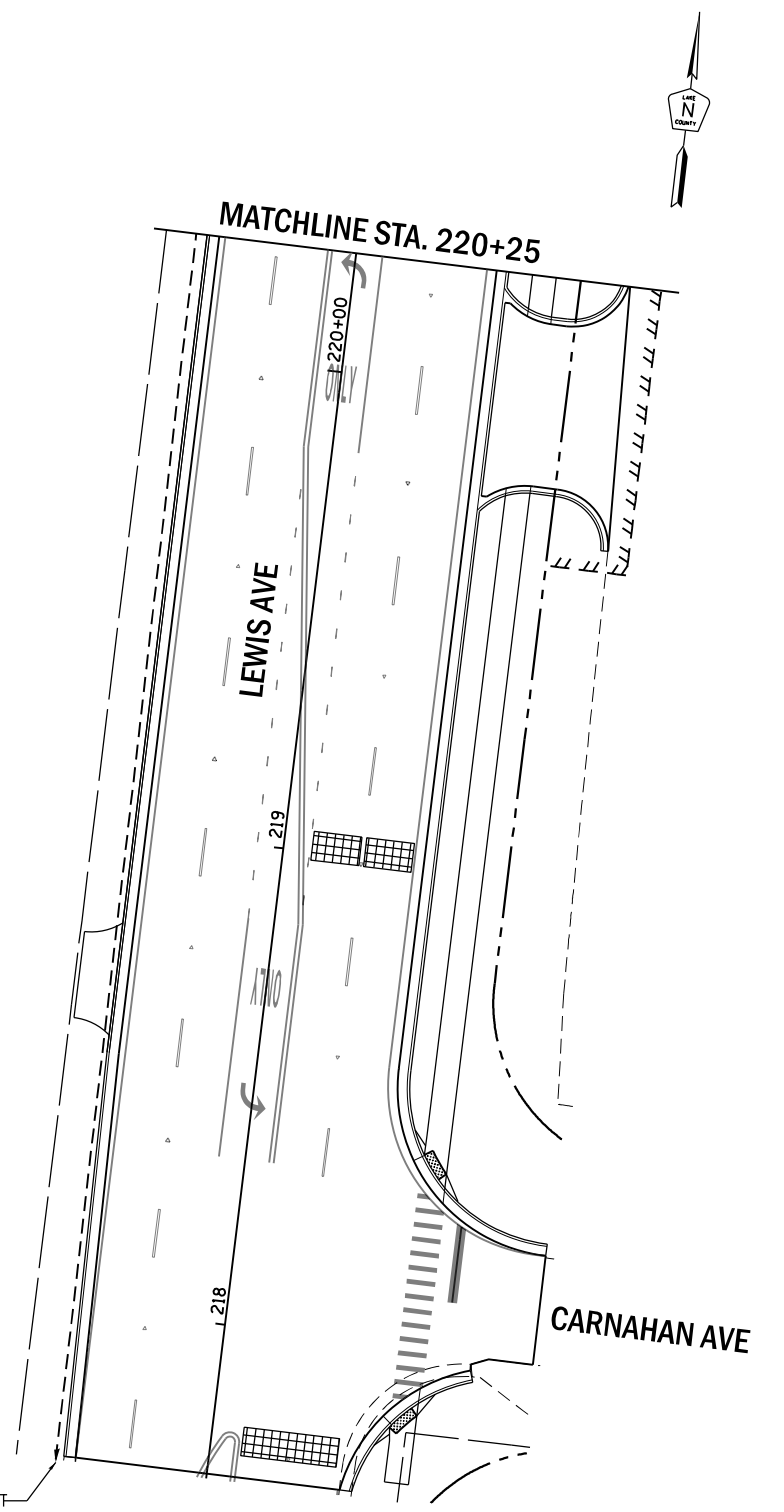
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PROP. INTERCONNECT
TO 33RD STREET



PROP. INTERCONNECT
TO BEACH RD



ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.



USER NAME	■ dwtorzak	DESIGNED	- ZH	REVISED	-
DRAWN	- RG	CHECKED	- DW	REVISED	-
PLOT SCALE	■ 40,0000 * / in.	DATE	- 09/29/2023	REVISED	-
PLOT DATE	■ 9/27/2023				

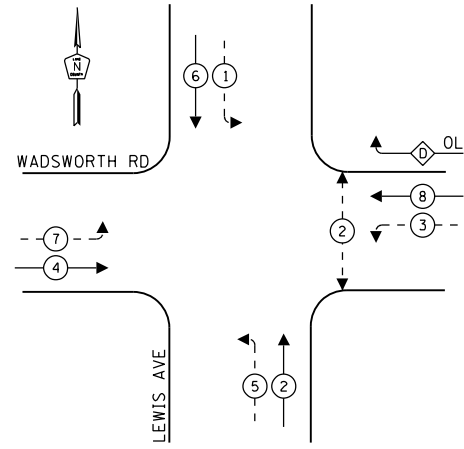
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
WADSWORTH RD AT LEWIS AVE – (SHEET 2 OF 2)

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	125
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE



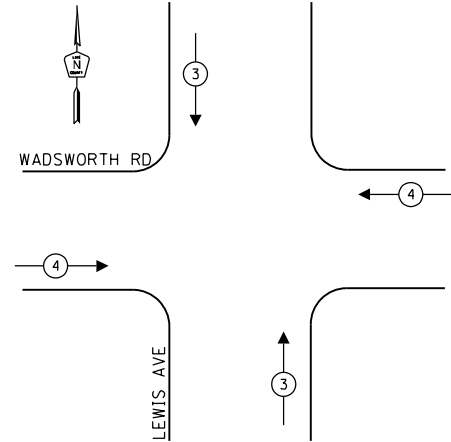
LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ - - ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ← ⊙ ⊙ OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	=	8 + 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

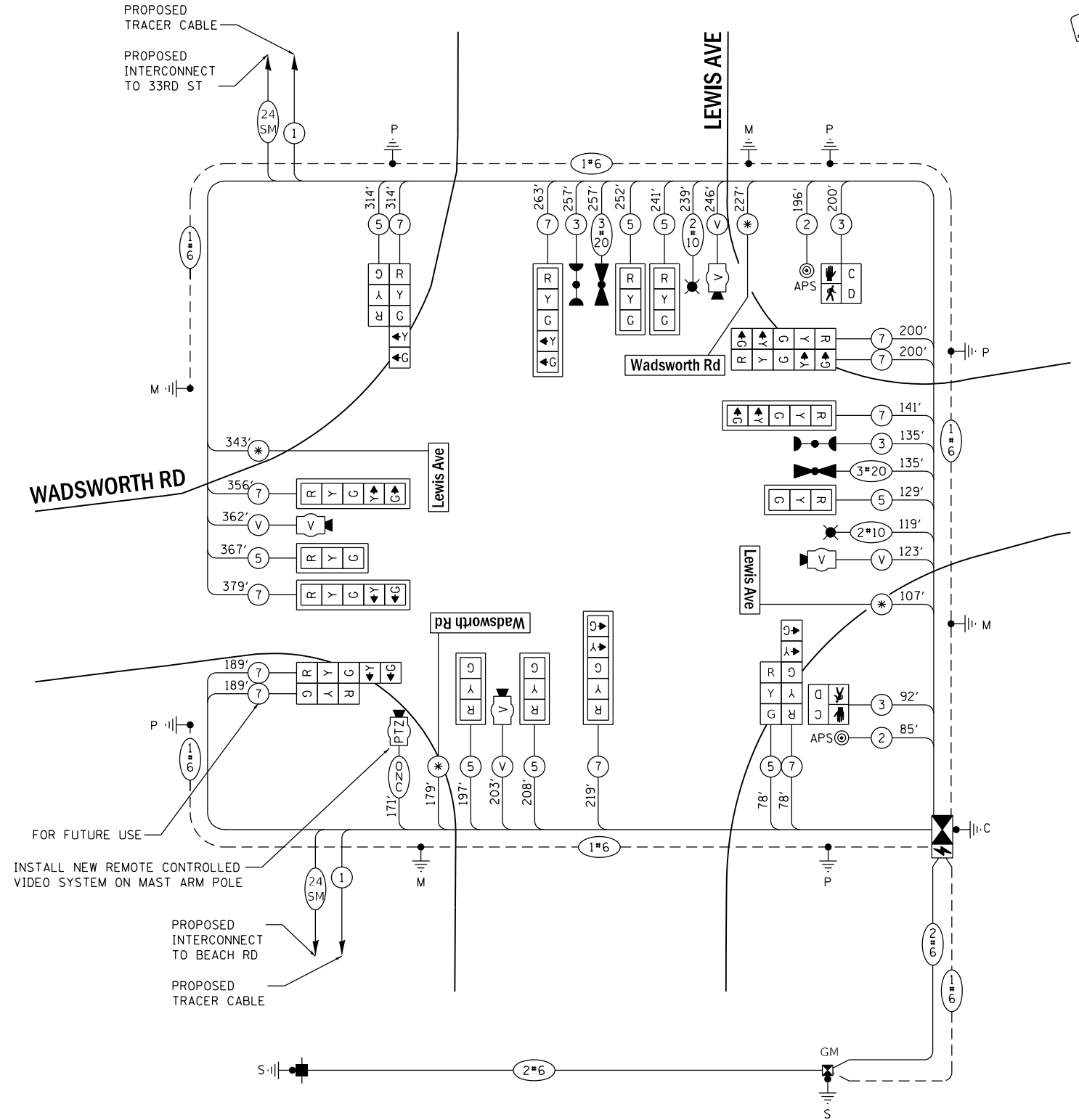
EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	9	11	99
4-SECTION	-	14	-
5-SECTION	10	13	130
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	2	15	30
MASTER CONTROLLER	1	150	150
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING			489
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	4	120	480
LUMINAIRE	2	240	480
TOTAL SERVICE WIRE SIZING			2,054

ENERGY COSTS TO: VILLAGE OF BEACH PARK

11270 W. WADSWORTH RD
BEACH PARK, IL 60099

ENERGY SUPPLY:

CONTACT: DANIEL MENDEZ
PHONE: (733)-799-6111
COMPANY: COMED
ACCOUNT NUMBER:
METER NUMBER:



CABLE PLAN
(NOT TO SCALE)

NOTE: * - 3/C #14 S00W

MODEL: Default
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USER NAME	dwiktorzak
PLOT SCALE	40.0000" / in.
PLOT DATE	9/27/2023

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DRAWN	RG	REVISED	-
CHECKED	DW	REVISED	-
DATE	09/29/2023	REVISED	-

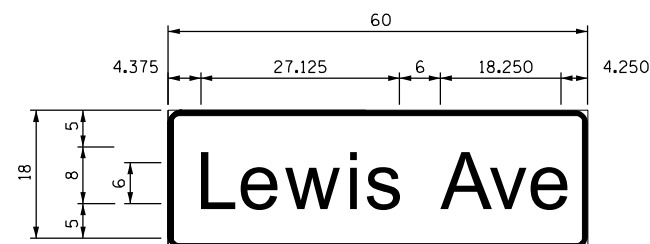
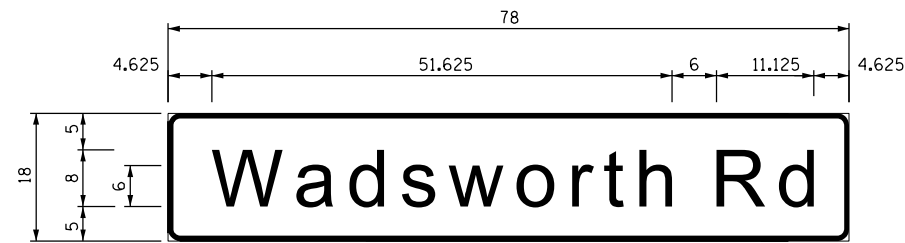
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN
WADSWORTH RD AT LEWIS AVE**

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	126
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES



NOTES:

1. FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.
2. ALL DIMENSIONS ARE IN INCHES.

ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	164
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	128
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	134
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	480
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	281
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	684
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1786
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2450
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	196
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	834
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
CONFIRMATION BEACON	EACH	2
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	392
RELOCATE EXISTING SWITCH (SPECIAL)	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	171
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TRAFFIC SIGNAL POST, 10 FOOT, (SPECIAL)	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	4
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	856
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT. (SPECIAL)	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT. (SPECIAL)	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT. (SPECIAL)	EACH	1
LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	1
CABLE (SPECIAL)	FOOT	358
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

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PLOT DATE	9/27/2023

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DRAWN	RG
CHECKED	DW
DATE	09/29/2023

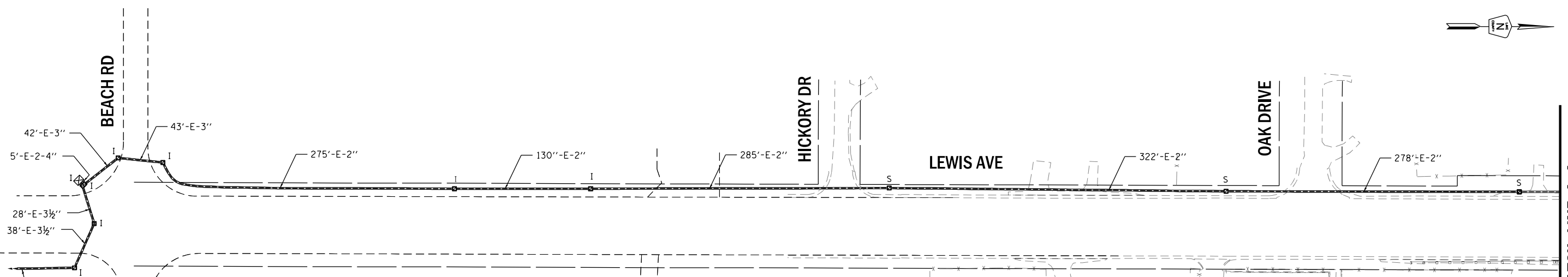
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
WADSWORTH RD AT LEWIS AVE

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	127
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

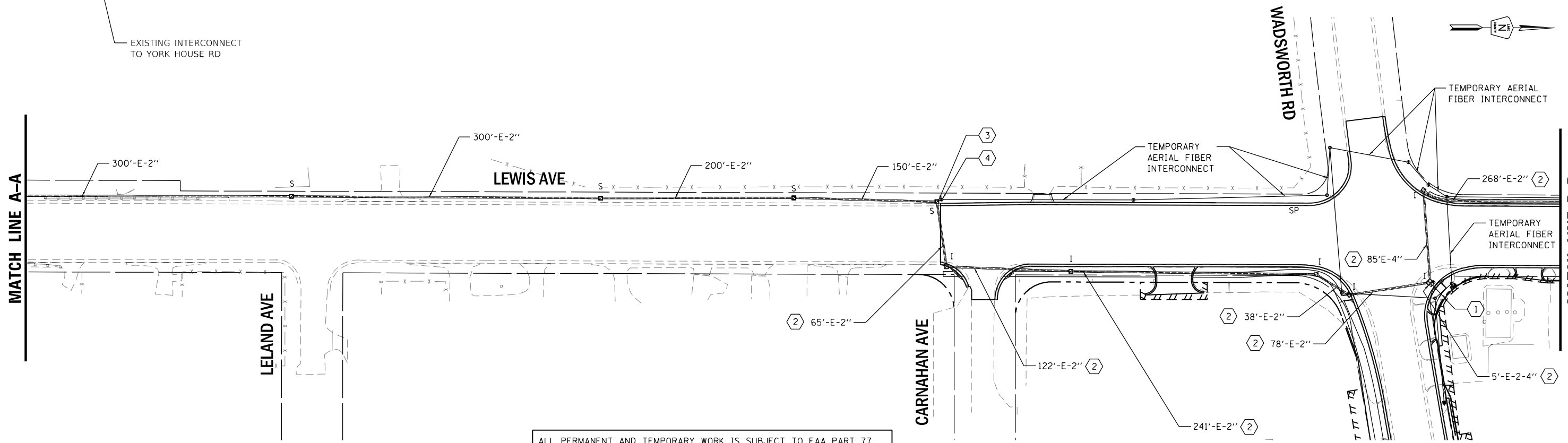


NOTES:

- ① DISCONNECT FIBER OPTIC CABLES AND TRACER CABLES.
- ② PULL EXISTING FIBER OPTIC CABLES AND TRACER CABLES BACK THROUGH EXISTING HANDHOLES AND CONDUITS TO EXISTING HANDHOLE WHERE THEY ARE TO BE STORED.
- ③ STORE EXISTING FIBER OPTIC CABLES AND TRACER CABLES IN THIS HANDHOLE FOR FUTURE USE. THE CABLES SHALL BE COILED AND THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE THE ENTIRE LENGTH OF CABLE IS PROTECTED FROM DAMAGE.

- ④ TEMPORARY FIBER AND EXISTING FIBER SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE ON TEMPORARY WOOD POLE. THE CONTRACTOR SHALL STAGE WORK SO THE DURATION OF INTERRUPTION TO THE COMMUNICATION IS MINIMAL.

MATCH LINE A-A



ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.

MATCH LINE B-B

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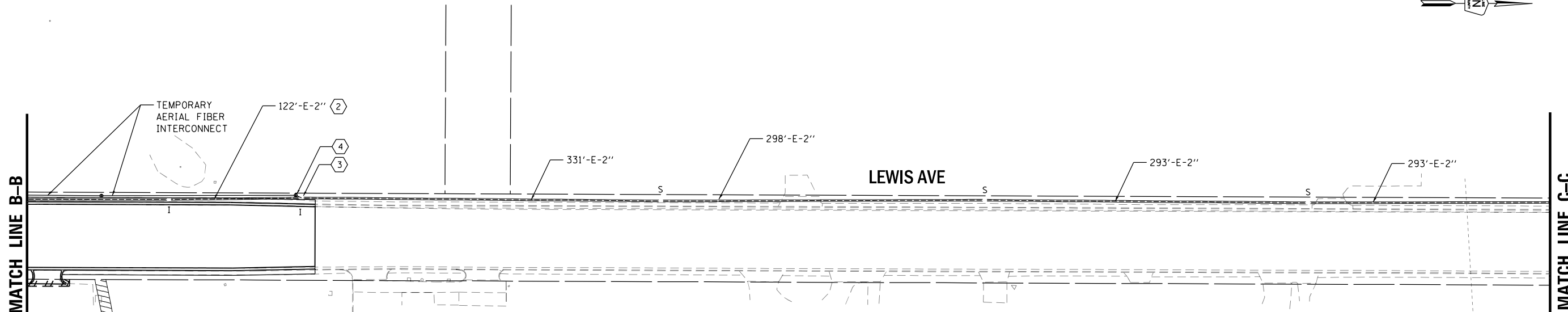
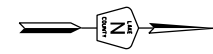
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DRAWN	RG
CHECKED	DW
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

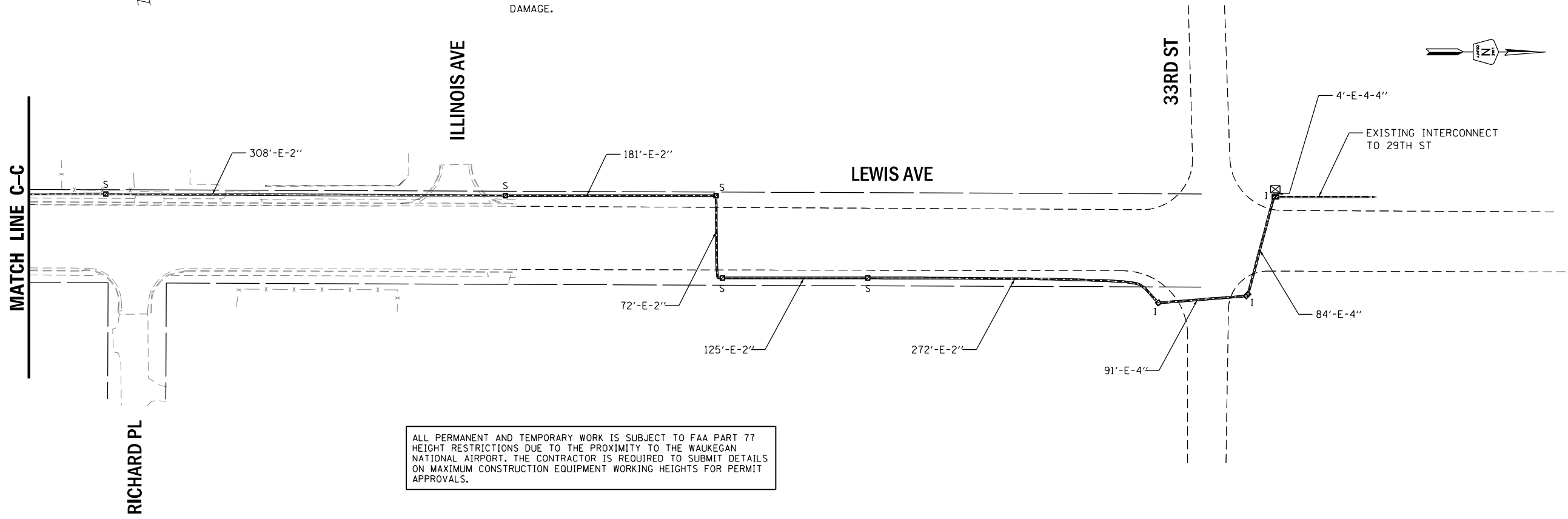
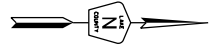
SIGNAL PLAN TEMPORARY INTERCONNECT PLAN			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	128
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



NOTES:

- ① DISCONNECT FIBER OPTIC CABLES AND TRACER CABLES.
- ② PULL EXISTING FIBER OPTIC CABLES AND TRACER CABLES BACK THROUGH EXISTING HANDHOLES AND CONDUITS TO EXISTING HANDHOLE WHERE THEY ARE TO BE STORED.
- ③ STORE EXISTING FIBER OPTIC CABLES AND TRACER CABLES IN THIS HANDHOLE FOR FUTURE USE. THE CABLES SHALL BE COILED AND THE CONTRACTOR SHALL EXERCISE CARE TO ENSURE THE ENTIRE LENGTH OF CABLE IS PROTECTED FROM DAMAGE.
- ④ TEMPORARY FIBER AND EXISTING FIBER SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE ON TEMPORARY WOOD POLE. THE CONTRACTOR SHALL STAGE WORK SO THE DURATION OF INTERRUPTION TO THE COMMUNICATION IS MINIMAL.



ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.

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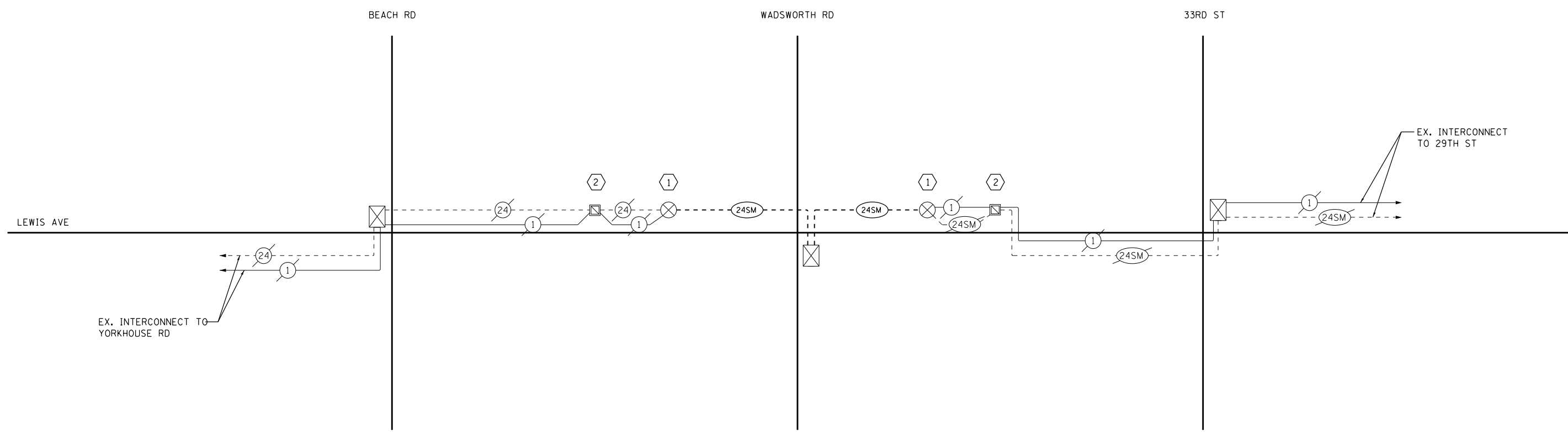
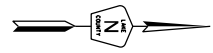


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DRAWN	- RG	CHECKED	- DW	REVISED	-
PLOT SCALE	■ 100.0000' / in.	DATE	- 09/29/2023	REVISED	-
PLOT DATE	■ 9/27/2023				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

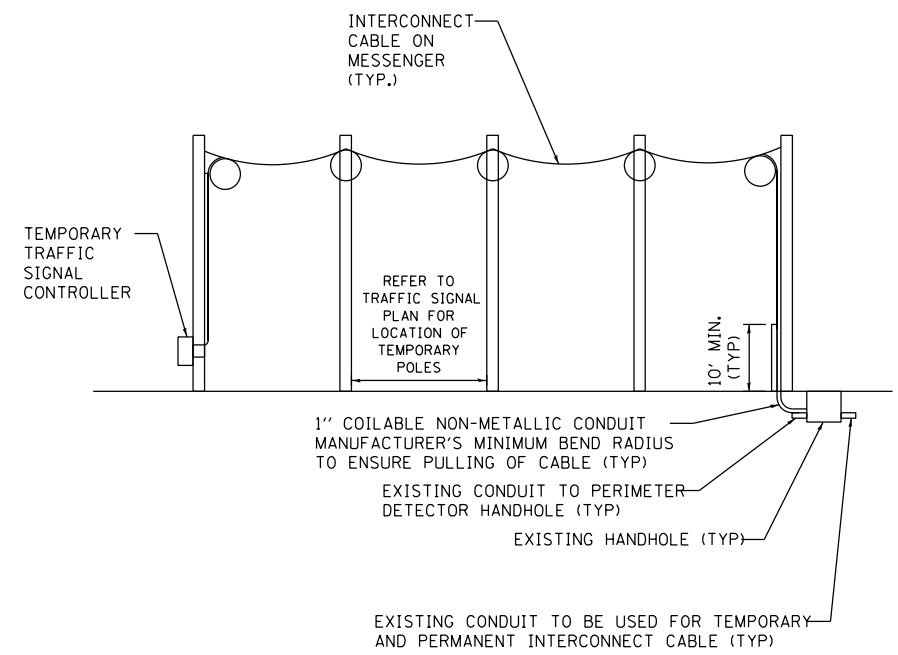
SIGNAL PLAN			
TEMPORARY INTERCONNECT PLAN			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	129
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



- ① TEMPORARY POLE WHERE TEMPORARY INTERCONNECT GOES AERIAL AND TEMPORARY FIBER OPTIC CABLES ARE TO BE SPLICED IN A WEATHER PROOF ENCLOSURE.
- ② EXISTING HANDHOLE WHERE EXISTING FIBER OPTIC CABLES SHALL BE STORED.

ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.



THE CONTRACTOR MUST NOTIFY THE LCDOT SIGNAL SYSTEM ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO THE START OF ANY WORK ON THE INTERCONNECT SIGNAL SYSTEM.

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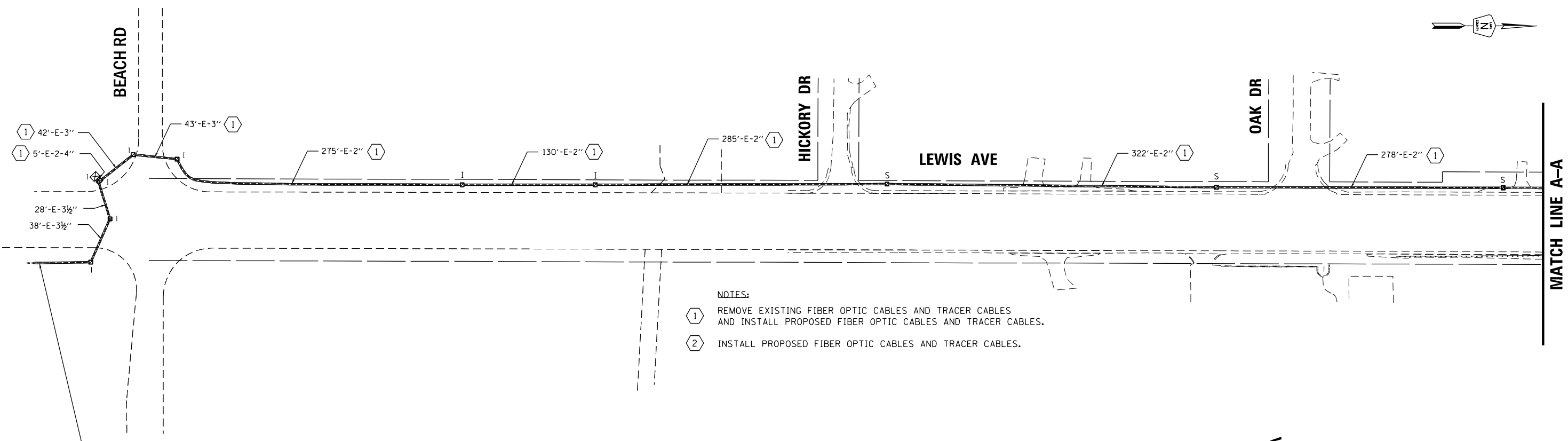
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PLOT DATE	■ 10/26/2023				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT SCHEMATIC

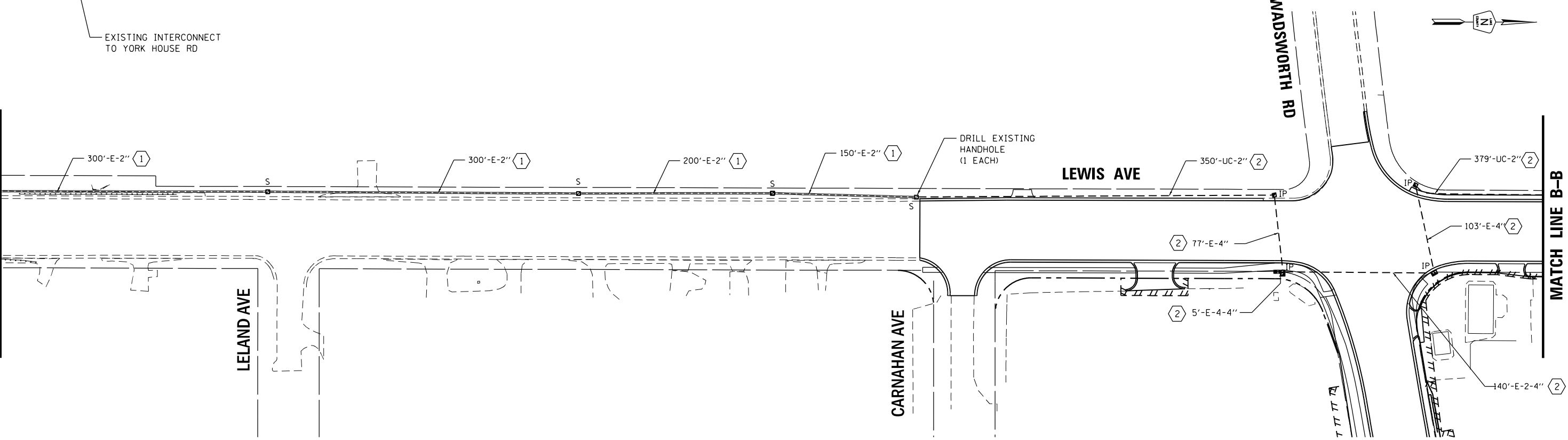
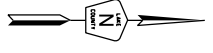
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	130
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



- NOTES:
- ① REMOVE EXISTING FIBER OPTIC CABLES AND TRACER CABLES AND INSTALL PROPOSED FIBER OPTIC CABLES AND TRACER CABLES.
 - ② INSTALL PROPOSED FIBER OPTIC CABLES AND TRACER CABLES.

MATCH LINE A-A



ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.

MATCH LINE A-A

MATCH LINE B-B

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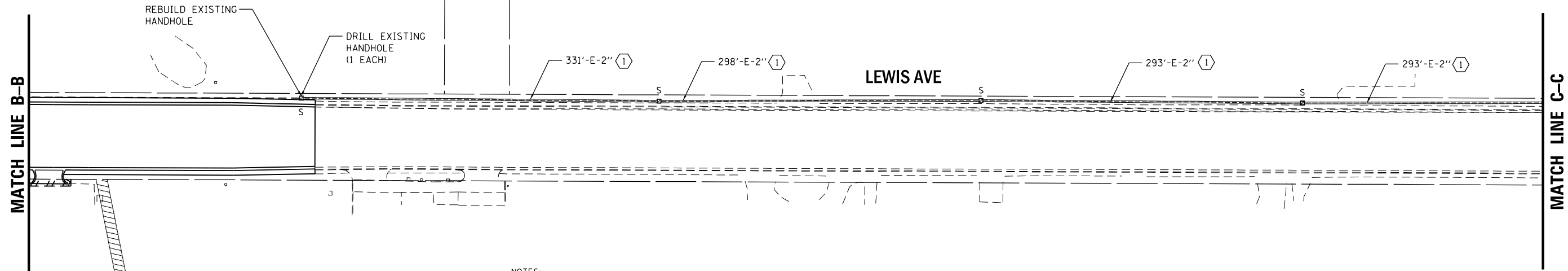
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

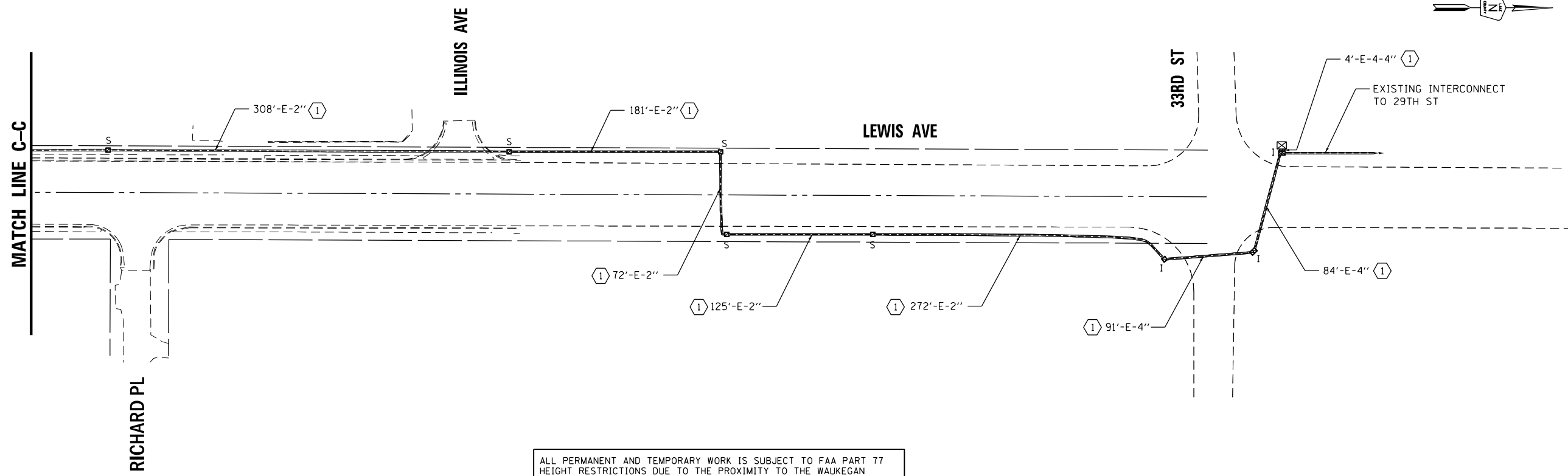
**SIGNAL PLAN
INTERCONNECT PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	131
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- (1) REMOVE EXISTING FIBER OPTIC CABLES AND TRACER CABLES AND INSTALL PROPOSED FIBER OPTIC CABLES AND TRACER CABLES.
 - (2) INSTALL PROPOSED FIBER OPTIC CABLES AND TRACER CABLES.



ALL PERMANENT AND TEMPORARY WORK IS SUBJECT TO FAA PART 77 HEIGHT RESTRICTIONS DUE TO THE PROXIMITY TO THE WAUKEGAN NATIONAL AIRPORT. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS ON MAXIMUM CONSTRUCTION EQUIPMENT WORKING HEIGHTS FOR PERMIT APPROVALS.

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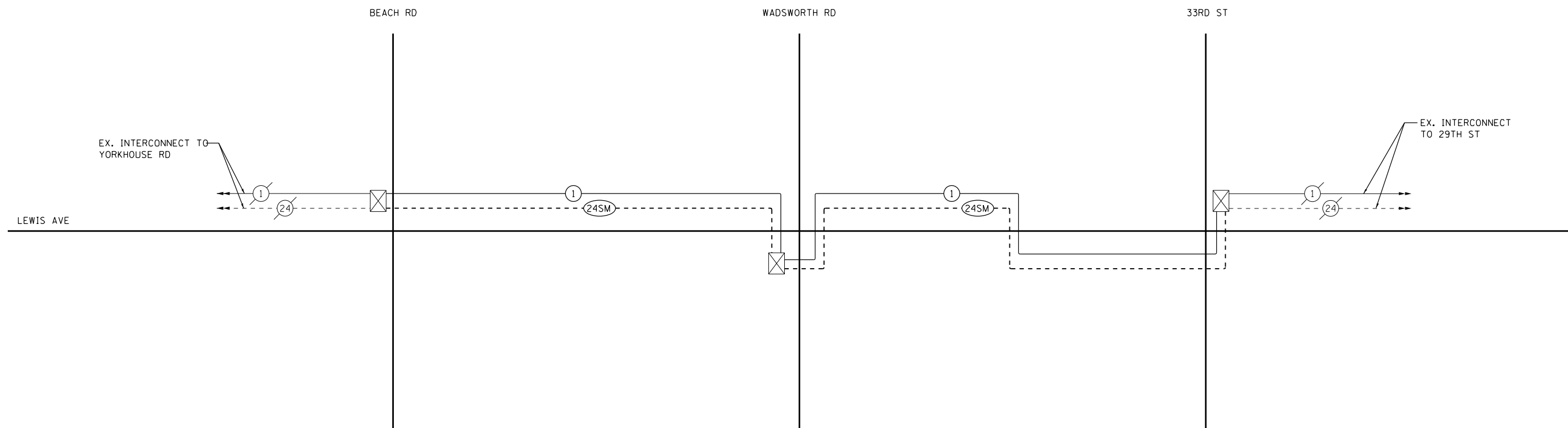
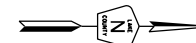
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PLOT SCALE	■ 100,0000 ' / in.	DATE	■ 09/29/2023	REVISED	■
PLOT DATE	■ 9/27/2023				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNAL PLAN
INTERCONNECT PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	132
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	729
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5711
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	5748
DRILL EXISTING HANDHOLE	EACH	2
REBUILD EXISTING HANDHOLE	EACH	1
FIBER OPTIC CABLE IN CONDUIT, 24 SINGLE MODE	FOOT	6028
ROD AND CLEAN EXISTING CONDUIT	FOOT	4682
REMOVE FIBER OPTIC CABLE FROM CONDUIT	FOOT	5711
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

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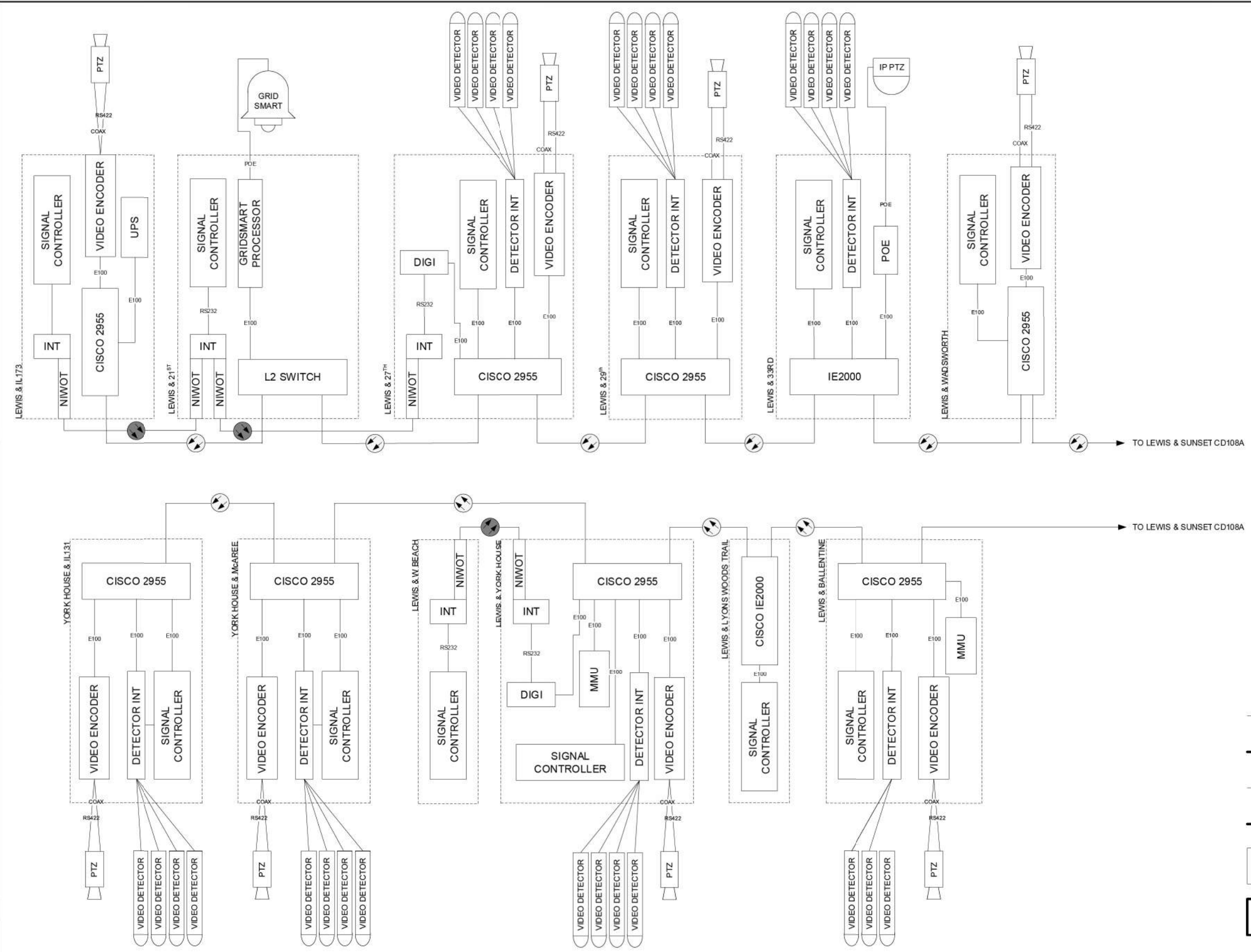
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PLOT DATE	■ 9/27/2023	DATE	- 09/29/2023	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	133
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



EXISTING CONDITION

- EXISTING MULTIMODE FIBER
- PROPOSED MULTIMODE FIBER
- EXISTING SINGLEMODE FIBER
- PROPOSED SINGLEMODE FIBER
- EXISTING EQUIPMENT
- PROPOSED EQUIPMENT

DESIGNED - DG	REVISED - 2017.06.26/16.09.21	21st / Lewis - add GRDSMART
DRAWN - YM	REVISED - 2018.01.16	27th / Lewis - PTZ / encoder
CHECKED - DG	REVISED -	
DATE 2018.02.07	REVISED -	

LAKE COUNTY
DIVISION OF TRANSPORTATION

108E EXISTING
LEWIS / north of SUNSET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
			108E	

MODEL: Default
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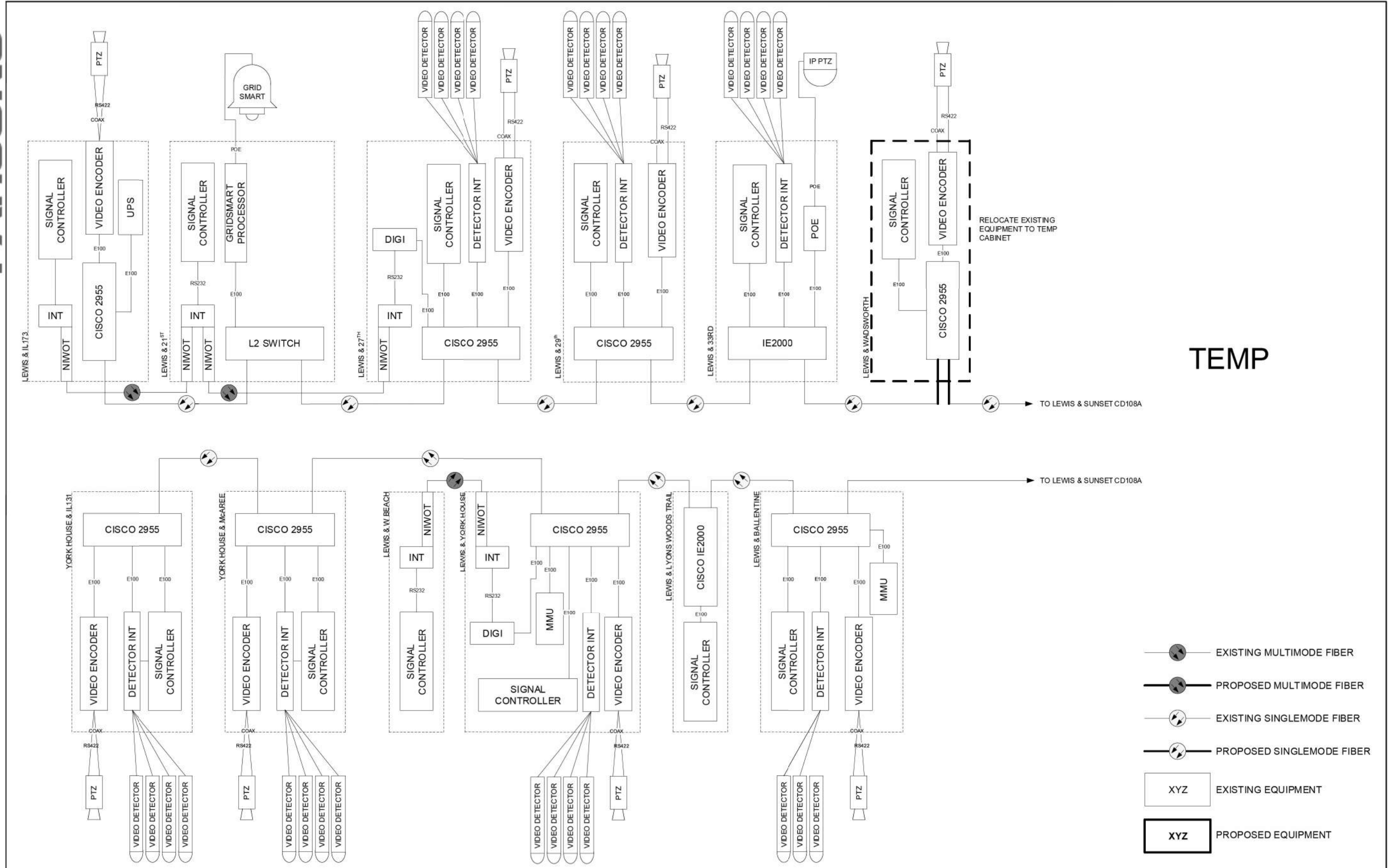
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PLOT DATE - 9/27/2023	CHECKED - DW	REVISED -
	DATE - 09/29/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY STANDARDS & DETAILS
COMMUNICATION PLANS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	134
CONTRACT NO. 61K05				
ILLINOIS		FED. AID PROJECT		



TEMP

RELOCATE EXISTING EQUIPMENT TO TEMP CABINET

- EXISTING MULTIMODE FIBER
- PROPOSED MULTIMODE FIBER
- EXISTING SINGLEMODE FIBER
- PROPOSED SINGLEMODE FIBER
- EXISTING EQUIPMENT
- PROPOSED EQUIPMENT

DESIGNED - DG	REVISED - 2017.06.28/16.09.21	21st / Lewis - add GRIDSMART
DRAWN - YM	REVISED - 2018.01.16	27th / Lewis - PTZ / encoder
CHECKED - DG	REVISED -	
DATE 2018.02.07	REVISED -	

LAKE COUNTY DIVISION OF TRANSPORTATION		108E TEMP LEWIS / north of SUNSET		ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
		SCALE N/A					108E	

MODEL: Default
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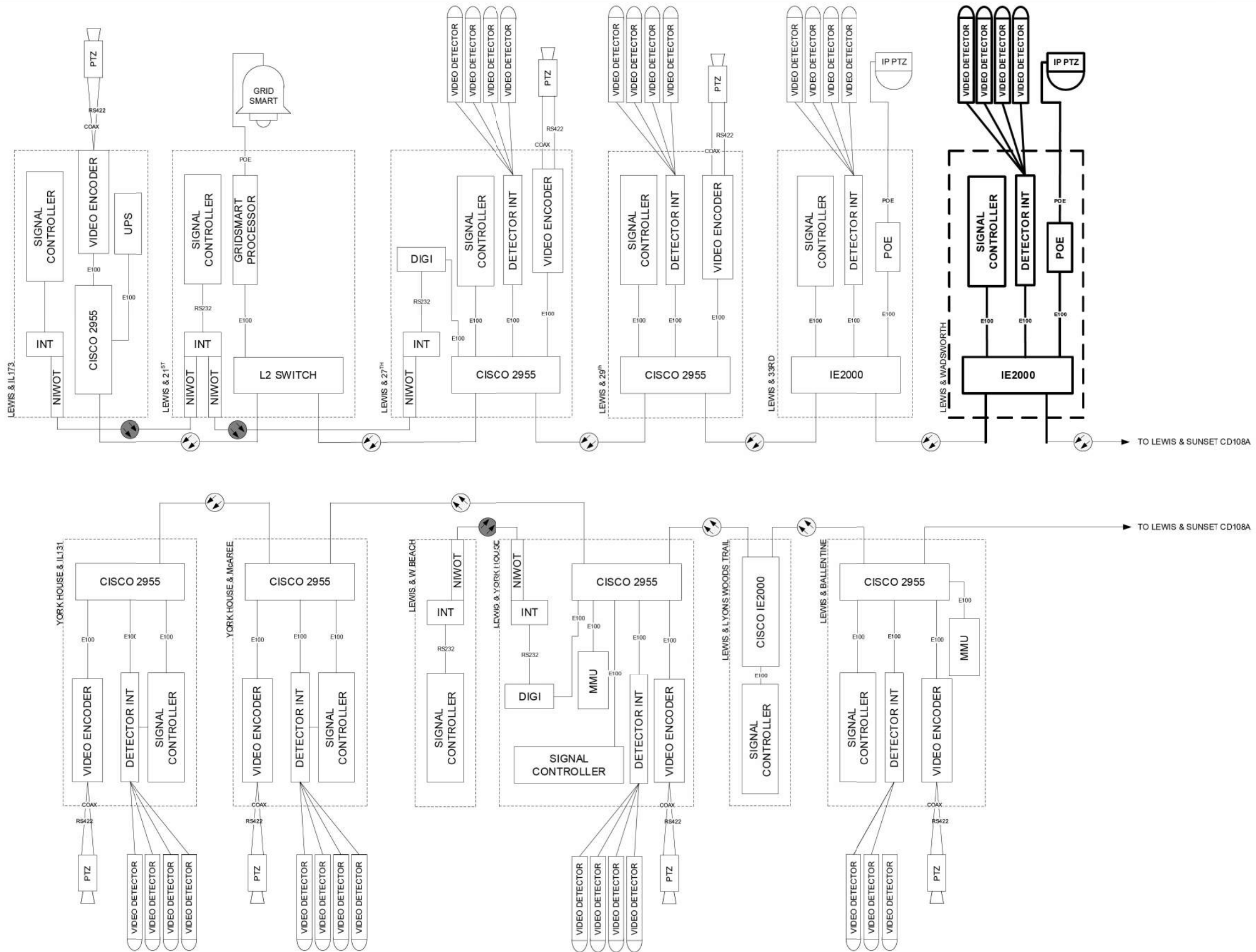


USER NAME - dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE - 40.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE - 9/27/2023	CHECKED - DW	REVISED -
	DATE - 09/29/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY STANDARDS & DETAILS COMMUNICATION PLANS	
SCALE: N.T.S.	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	135
CONTRACT NO. 61K05				
		ILLINOIS	FED. AID PROJECT	



FINAL

- EXISTING MULTIMODE FIBER
- PROPOSED MULTIMODE FIBER
- EXISTING SINGLEMODE FIBER
- PROPOSED SINGLEMODE FIBER
- EXISTING EQUIPMENT
- PROPOSED EQUIPMENT

DESIGNED - DG	REVISED - 2017.06.20/16.09.21	21 st / Lewis - add GRIDSMART
DRAWN - YM	REVISED - 2018.01.16	27th / Lewis - PTZ / encoder
CHECKED - DG	REVISED -	
DATE 2018.02.07	REVISED -	

LAKE COUNTY
DIVISION OF TRANSPORTATION

108E FINAL
LEWIS / north of SUNSET

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
			108E	

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USER NAME - dwiktorzak	DESIGNED - ZH	REVISED -
PLOT SCALE - 40.0000' / in.	DRAWN - RG	REVISED -
PLOT DATE - 9/27/2023	CHECKED - DW	REVISED -
	DATE - 09/29/2023	REVISED -

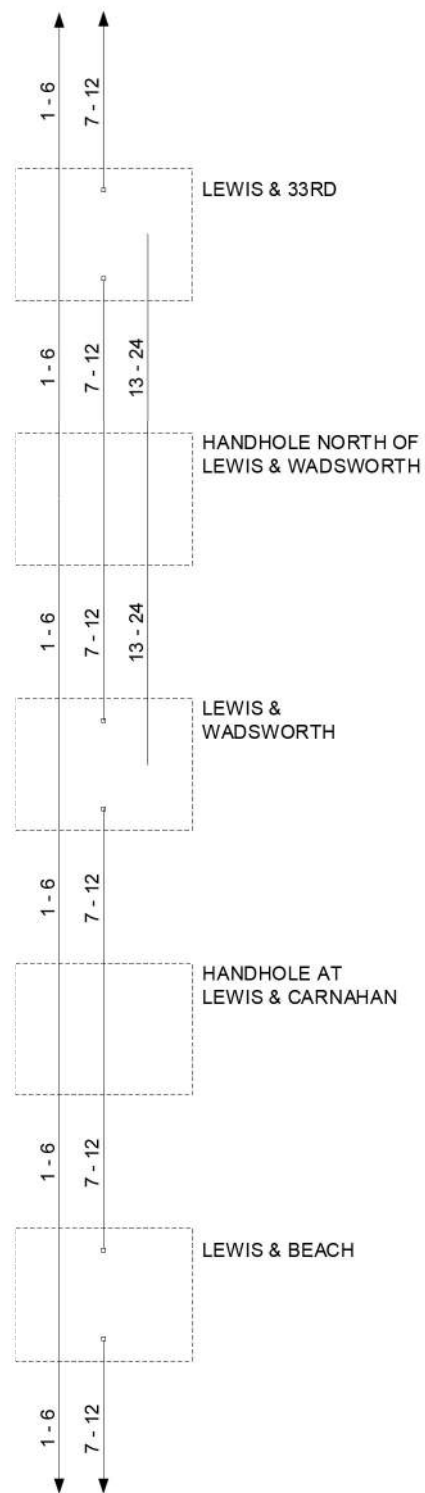
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY STANDARDS & DETAILS
COMMUNICATION PLANS

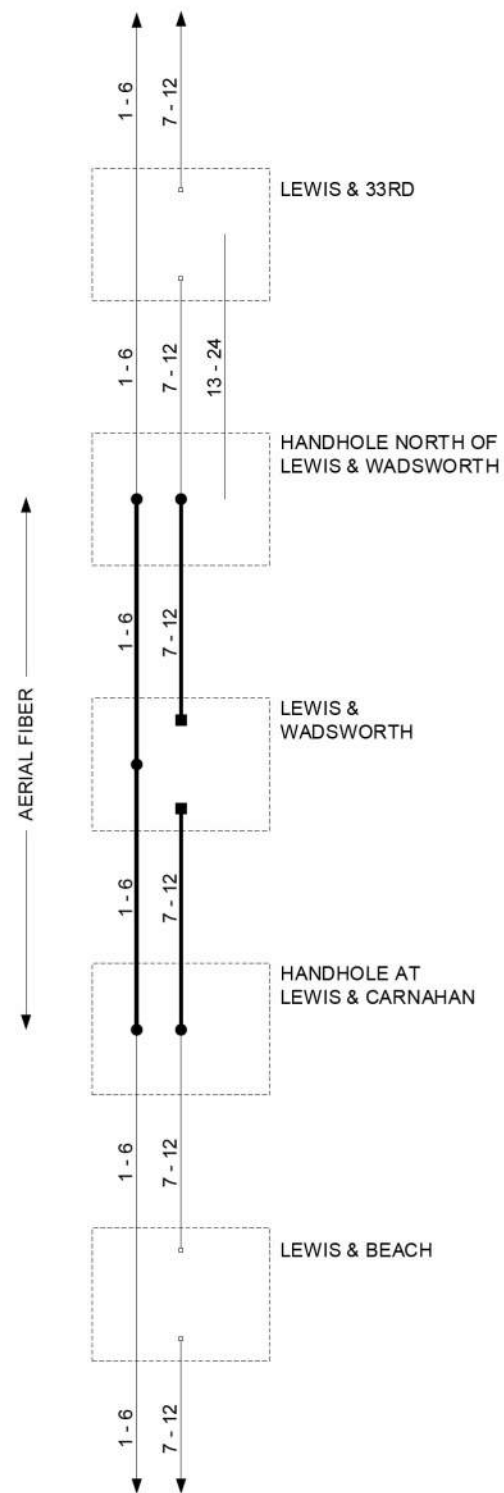
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	136
CONTRACT NO. 61K05				
ILLINOIS		FED. AID PROJECT		

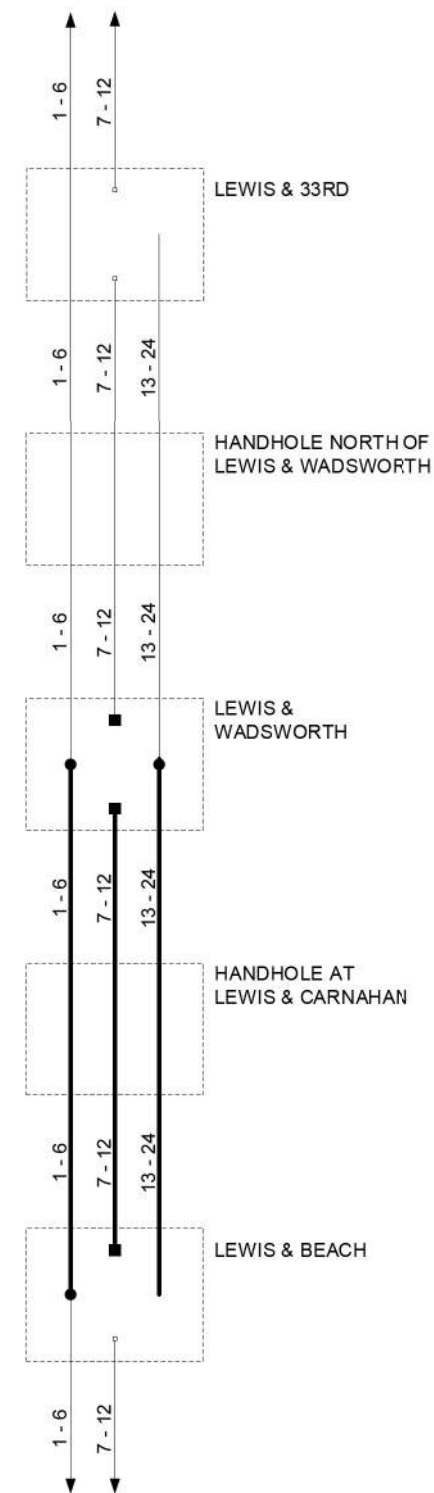
EXISTING



TEMP



FINAL



- EXISTING CONNECTOR / EXISTING FIBER
- NEW CONNECTOR / EXISTING FIBER
- EXISTING FUSION SPLICE / EXISTING FIBER
- NEW FUSION SPLICE / EXISTING FIBER
- NEW CONNECTOR / NEW FIBER
- NEW FUSION SPLICE / NEW FIBER

DESIGNED - DG	REVISED -
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CHECKED - DG	REVISED -
DATE 2018.02.07	REVISED -

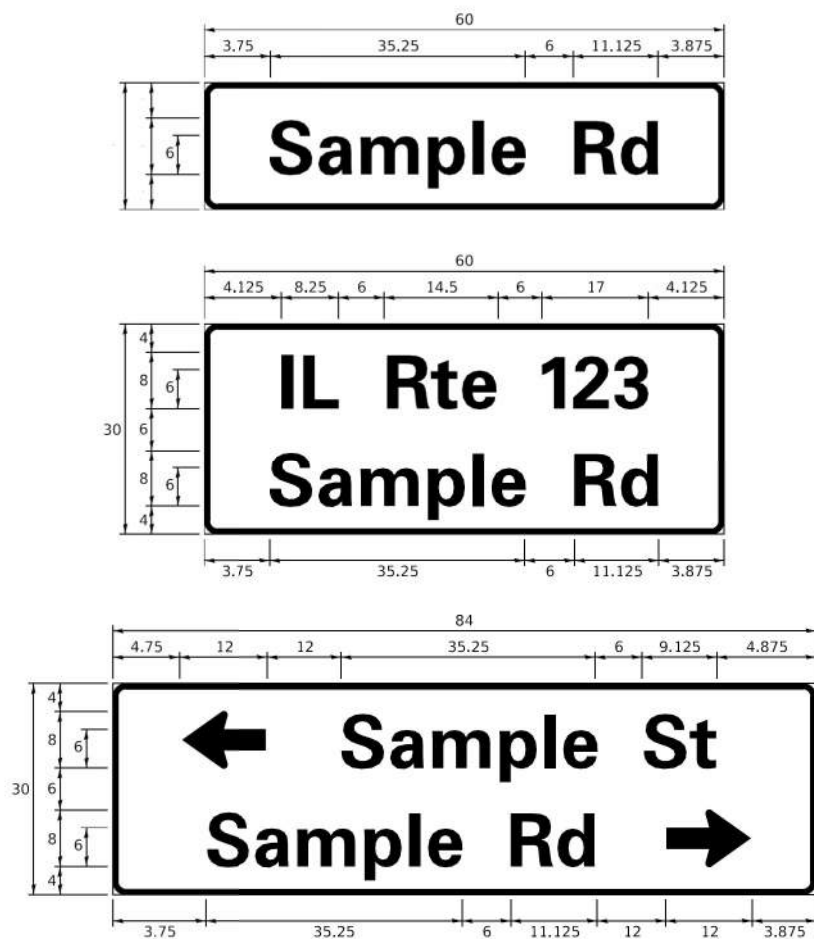
LAKE COUNTY
DIVISION OF TRANSPORTATION

LEWIS FROM BEACH TO 33RD
FIBER SPLICING DIAGRAM

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
			92	

SCALE: N/A

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Bld	17.125	20.000
CIRCLE	Clr	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLS MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA

- WESTERN REMAC, INC.
WOODRIDGE, IL

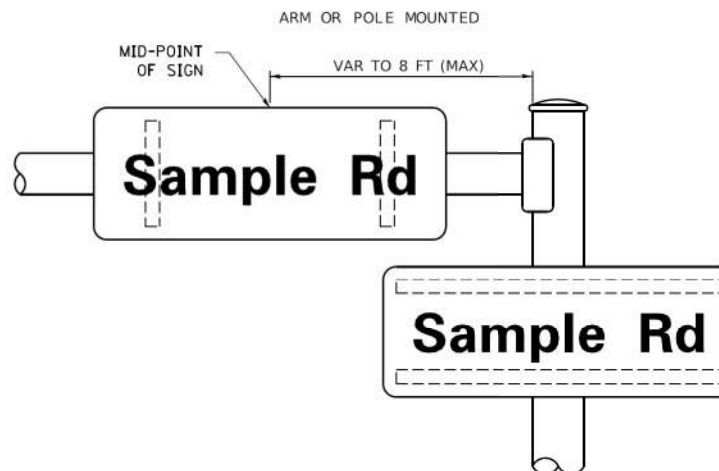
PARTS LISTING:

SIGN CHANNEL
SIGN SCREWS
BRACKETS

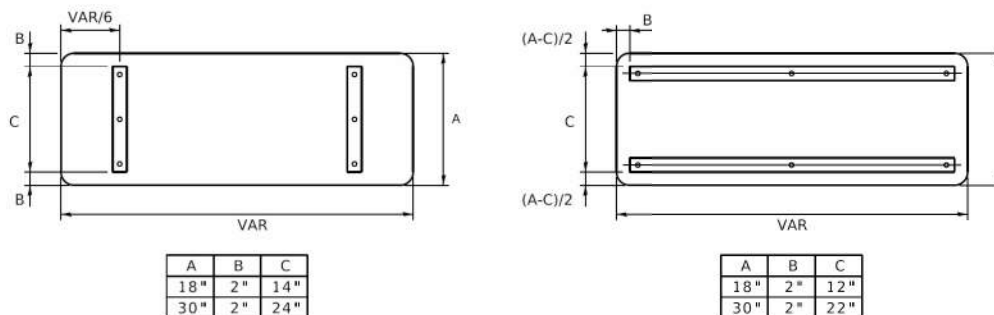
PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1' H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

CHARACTER	FHWA SERIES "C"			CHARACTER	FHWA SERIES "D"		
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.122	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.642	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.122	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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PLOT DATE = 3/4/2019		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - MAST ARM MOUNTED STREET NAMES SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	138
CONTRACT NO. 61K05				



TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTIBLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL WIRE			RELOCATE ITEM		RL			
SIGNAL HEAD			ABANDON ITEM		A			
SIGNAL HEAD WITH BACKPLATE			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
SIGNAL HEAD OPTICALLY PROGRAMMED			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN SIGNAL HEAD			DETECTOR LOOP, TYPE I					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			PREFORMED DETECTOR LOOP					
RADAR DETECTION SENSOR			SAMPLING (SYSTEM) DETECTOR					
VIDEO DETECTION CAMERA			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			WIRELESS DETECTOR SENSOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS ACCESS POINT					
CONFIRMATION BEACON								
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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PLOT DATE = 3/4/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05		CONTRACT NO.		
ILLINOIS		FED. AID PROJECT		

SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

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USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
DRAWN - RG	CHECKED - DW	REVISIED -
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PLOT DATE = 9/27/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

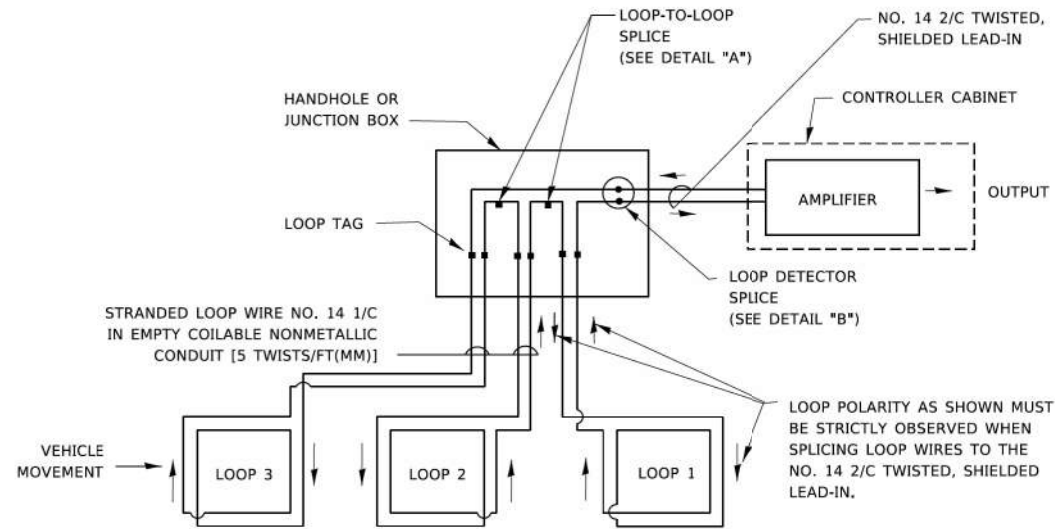
**DISTRICT 1 - STANDARD TRAFFIC SIGNAL
DESIGN DETAILS - 1 OF 7**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	139
ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 61K05				

SCALE: SHEET OF SHEETS STA. TO STA.

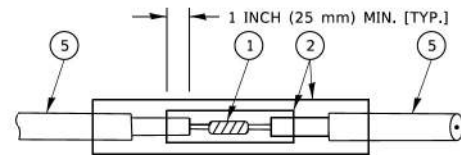
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

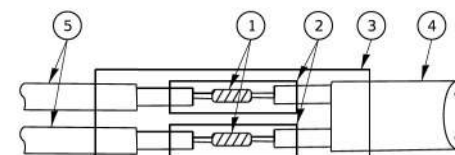


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

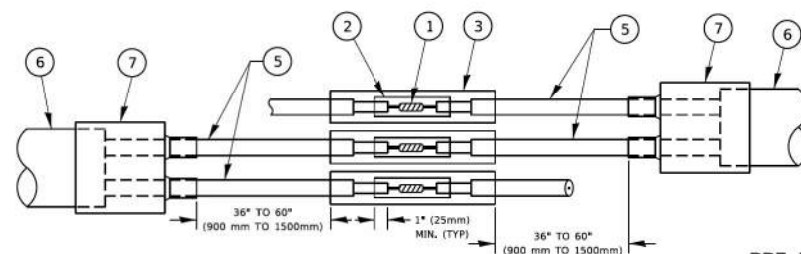


**DETAIL "A"
LOOP-TO-LOOP SPLICE**

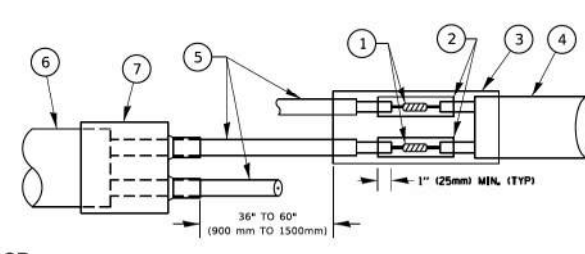


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



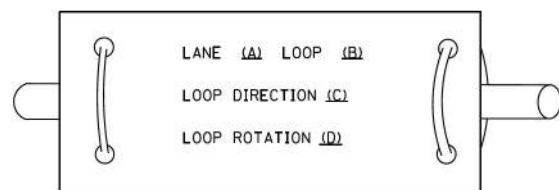
**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

PREFORMED LOOP

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

MODEL: Default
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05			CONTRACT NO.	
ILLINOIS			FED. AID PROJECT	



USER NAME = dwtorzak	DESIGNED - ZH	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

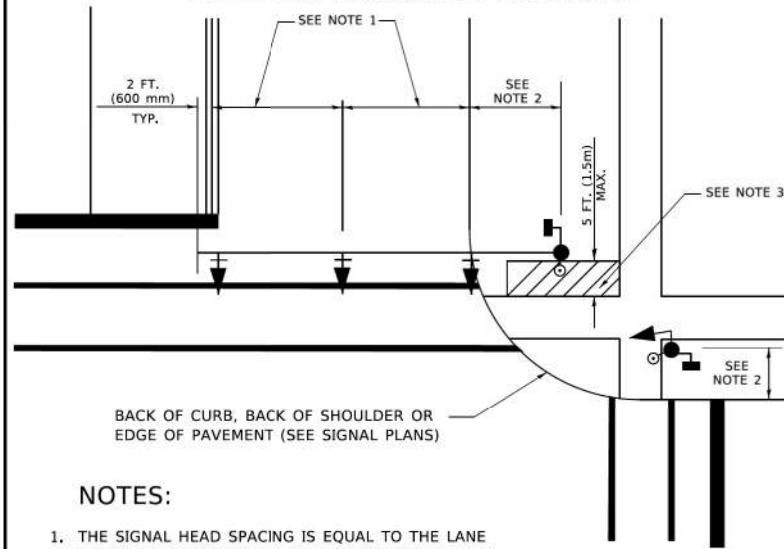
**DISTRICT 1 - STANDARD TRAFFIC SIGNAL
DESIGN DETAILS - 2 OF 7**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS			FED. AID PROJECT	

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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

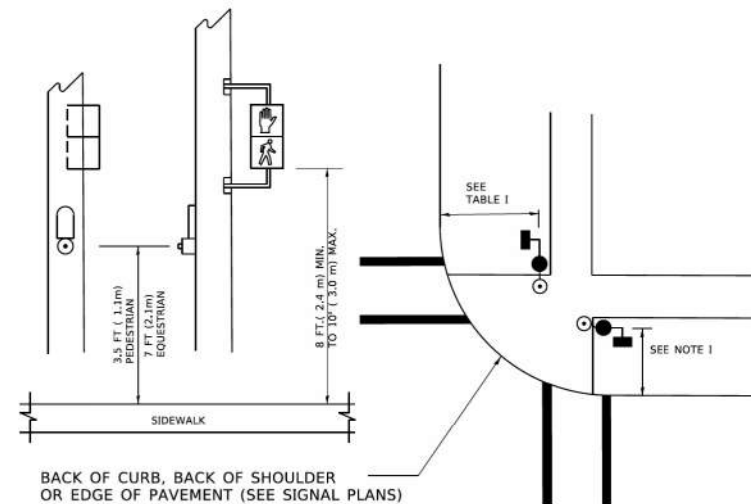
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

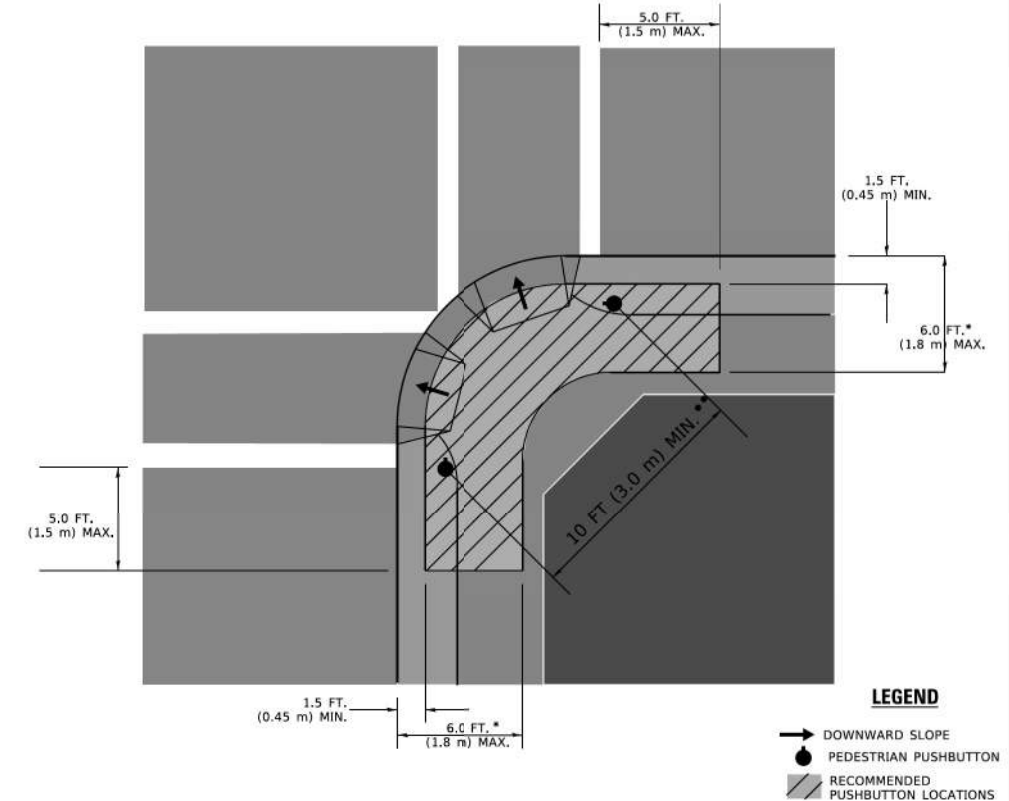
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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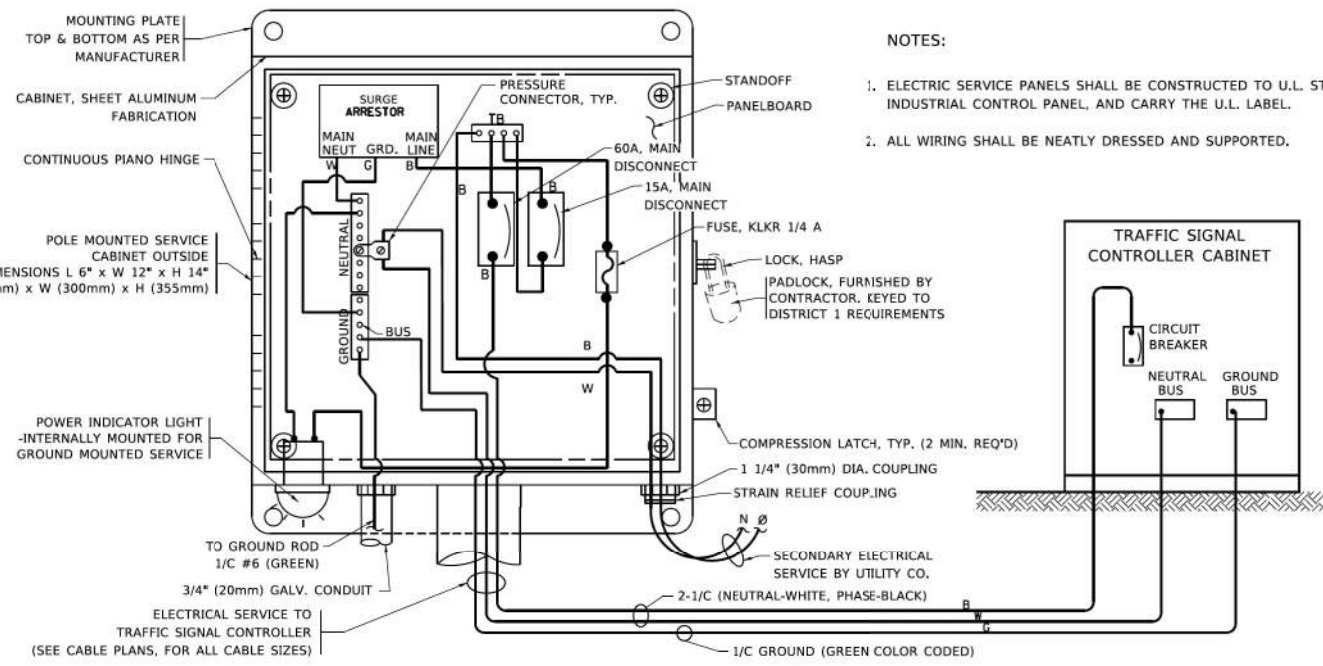
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SCALE: NONE								SHEET 3	OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. TS-05 ILLINOIS FED. AID PROJECT	

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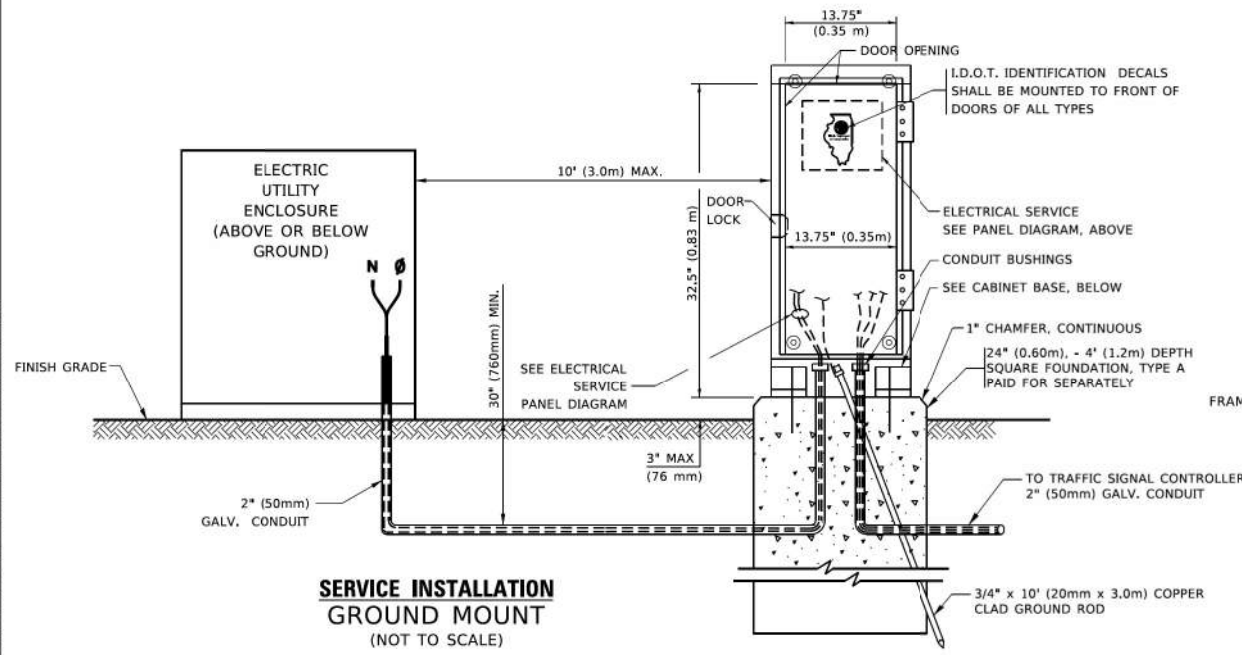
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SCALE:								SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 61K05 ILLINOIS FED. AID PROJECT
								1209	13-00055-06-WR	LAKE	228	141	



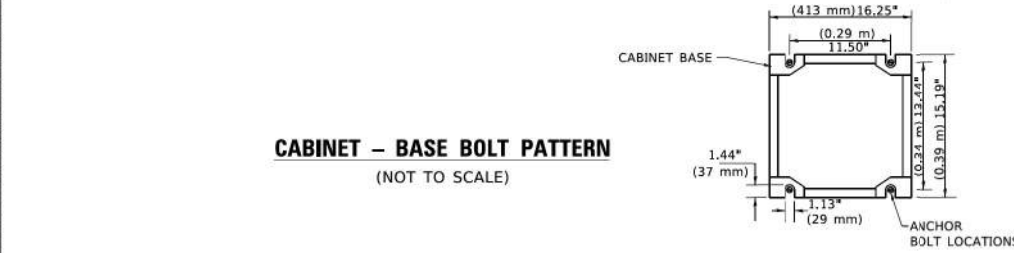
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ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

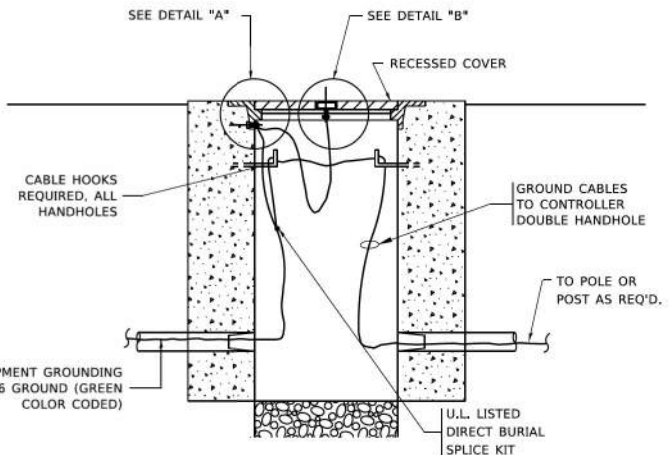
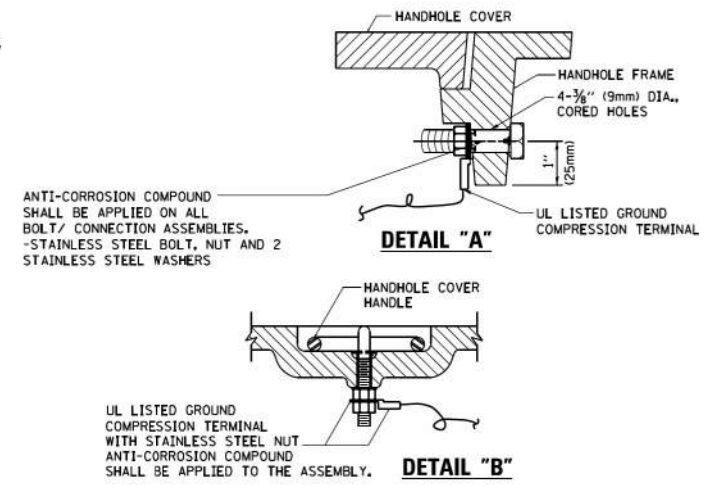


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

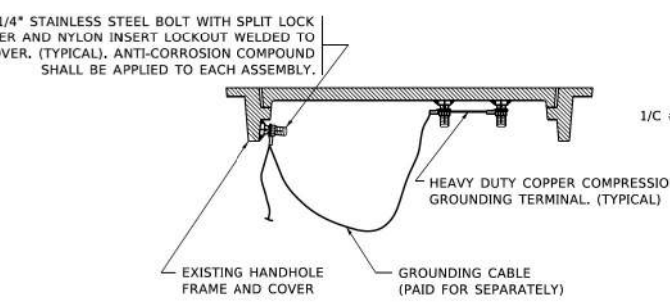


CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



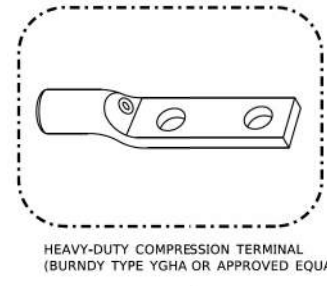
HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

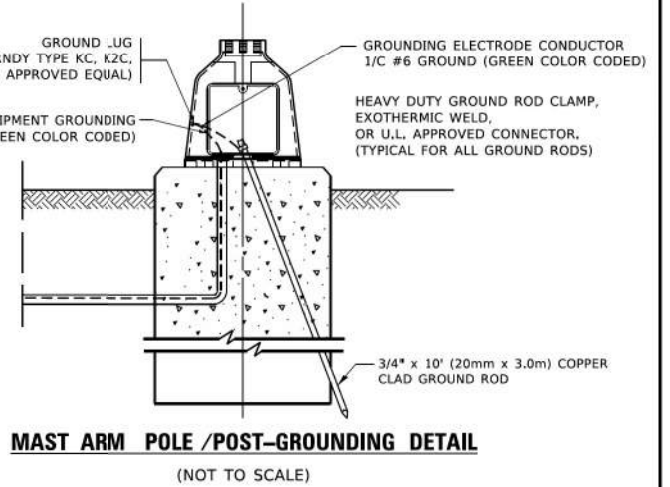
NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4\"/>
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE /POST-GROUNDING DETAIL
 (NOT TO SCALE)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 4	OF 7 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05			CONTRACT NO.	
ILLINOIS			FED. AID PROJECT	

USER NAME = dwiktorzak	DESIGNED - ZH	REVISED -
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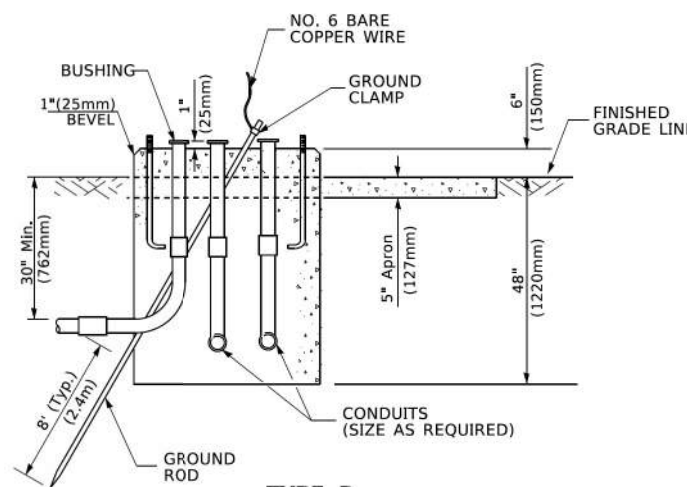
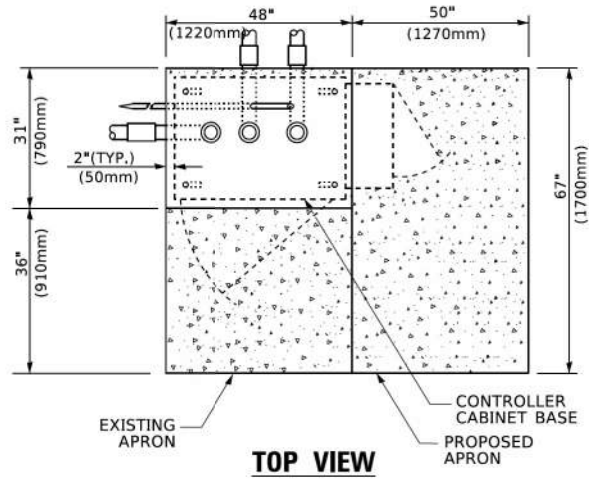
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - STANDARD TRAFFIC SIGNAL			
DESIGN DETAILS - 4 OF 7			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K05				
ILLINOIS			FED. AID PROJECT	

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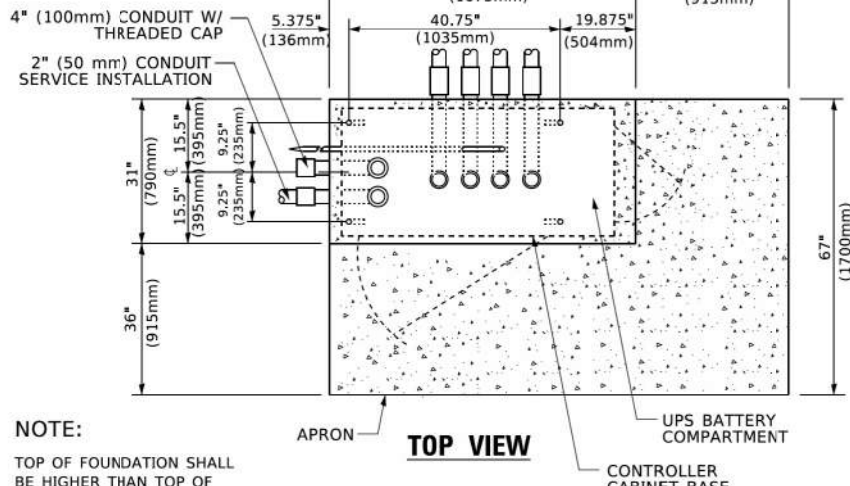
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

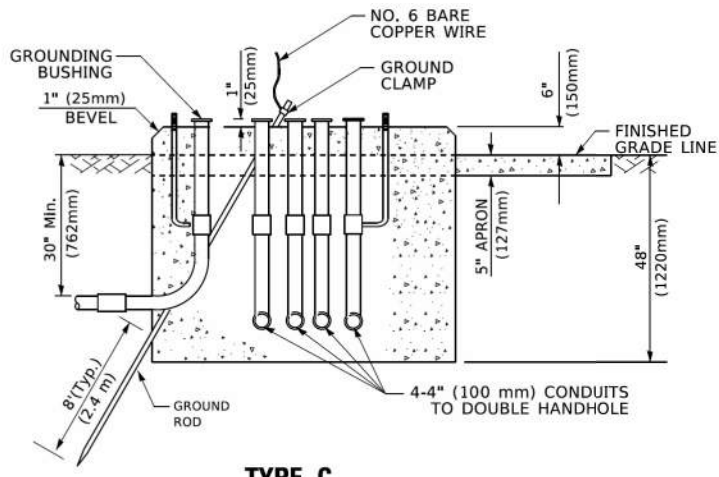
CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH



NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

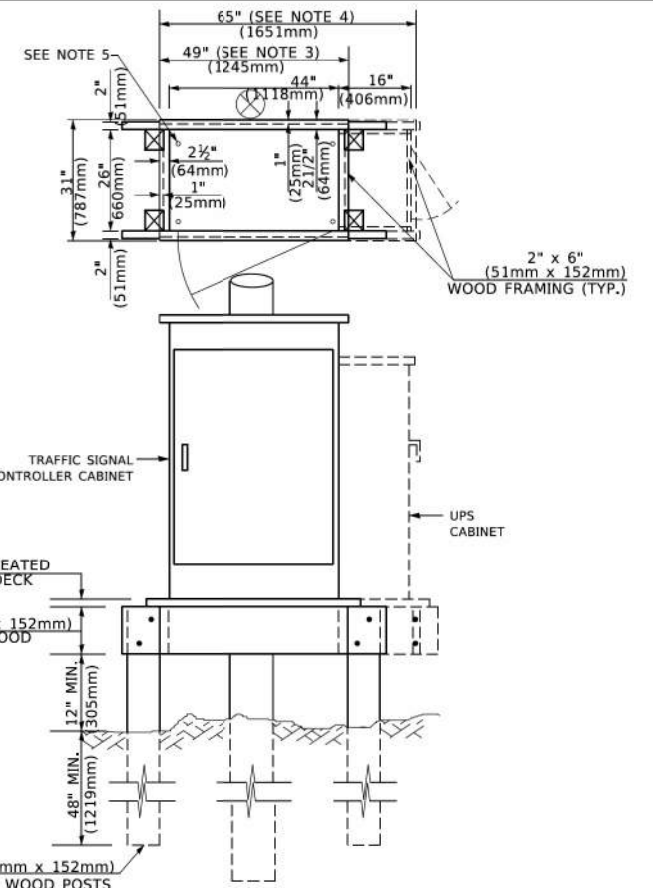
NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Q_u) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**



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PROJECT: 13-0055-06
SHEET: 5 OF 7
DATE: 9/27/2023



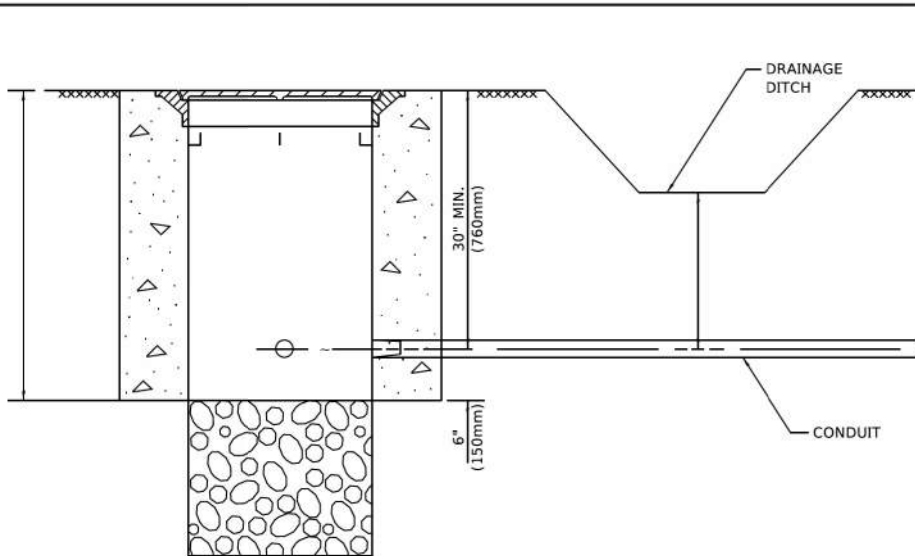
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - STANDARD TRAFFIC SIGNAL
DESIGN DETAILS - 5 OF 7**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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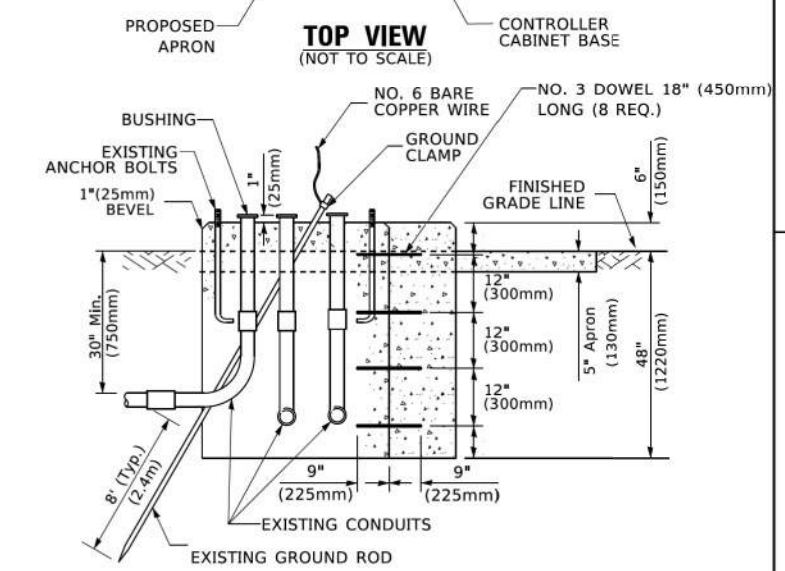
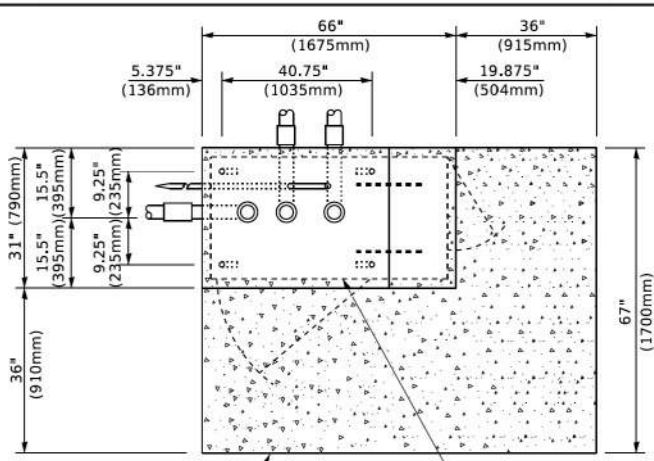
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET 5	OF 7 SHEETS	STA. TO STA.	TS-05 CONTRACT NO.				
				ILLINOIS FED. AID PROJECT				



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

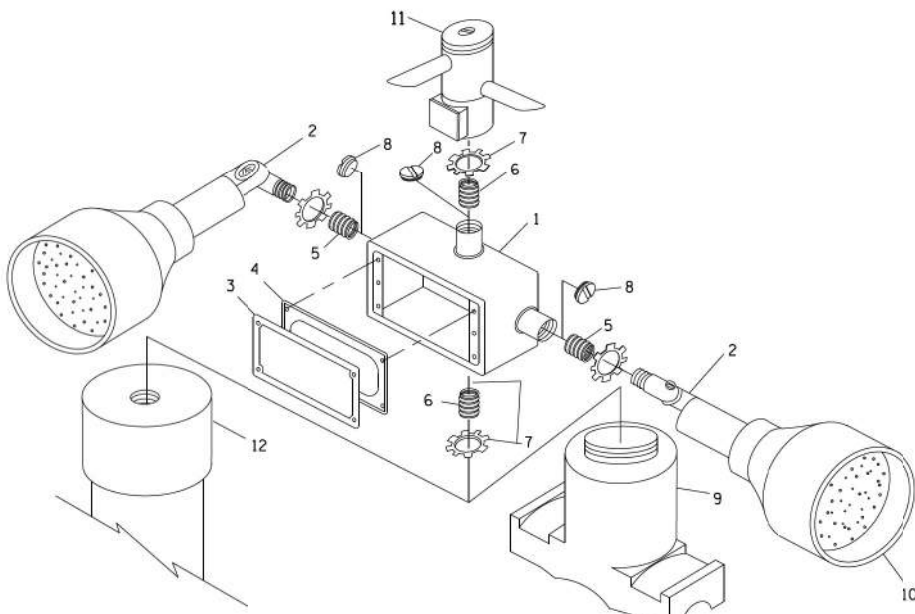


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

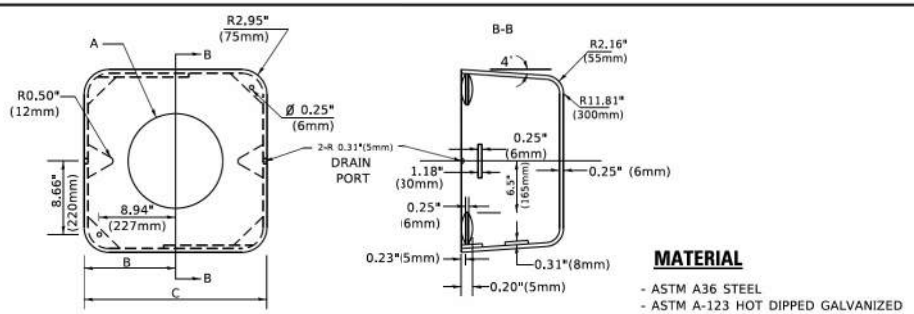
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



POST CAP MOUNT MAST ARM MOUNT EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

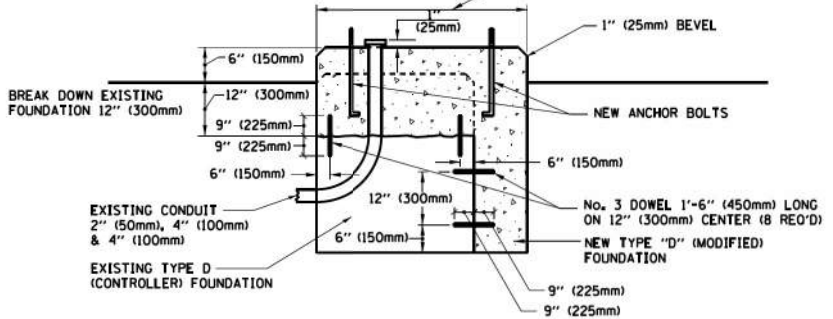
SHROUD

NOTES:

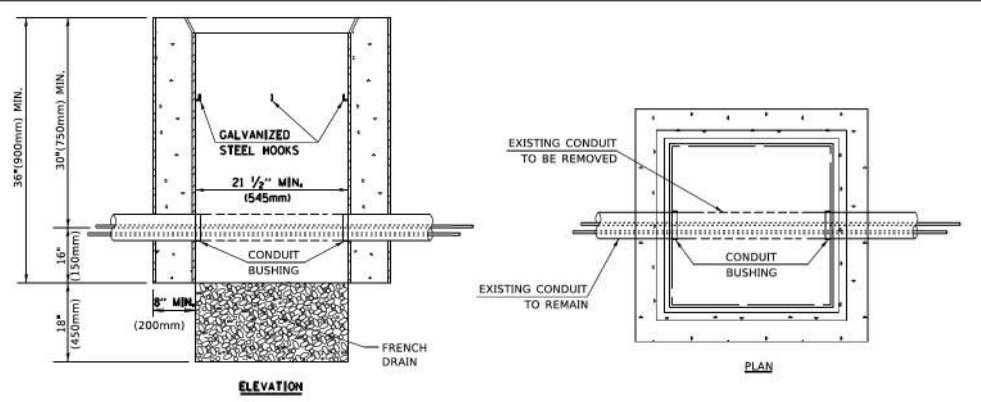
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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FOOTER	ZH	-
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PLOT DATE = 3/4/2019	RG	-
	CHECKED	REVISED
	DW	-
	DATE	REVISED
	09/29/2023	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05			CONTRACT NO.	
ILLINOIS			FED. AID PROJECT	

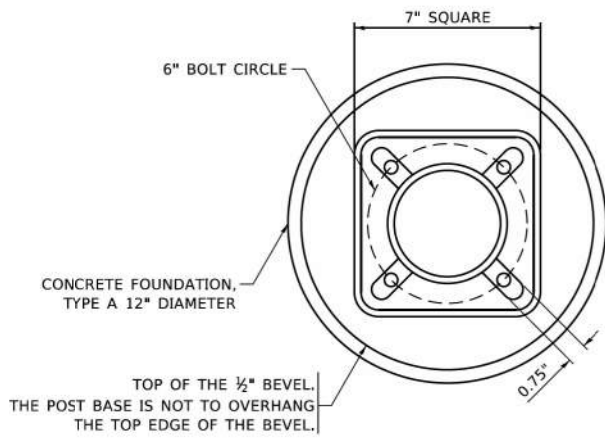
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS - 6 OF 7

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61K05	
ILLINOIS			FED. AID PROJECT	

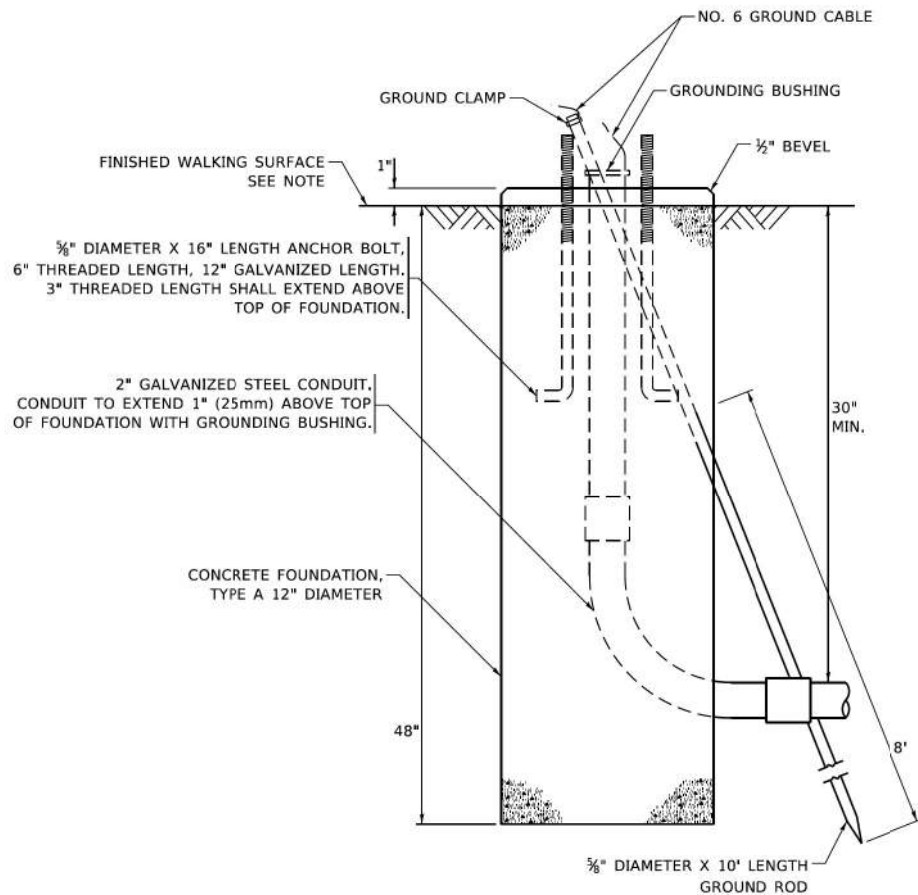
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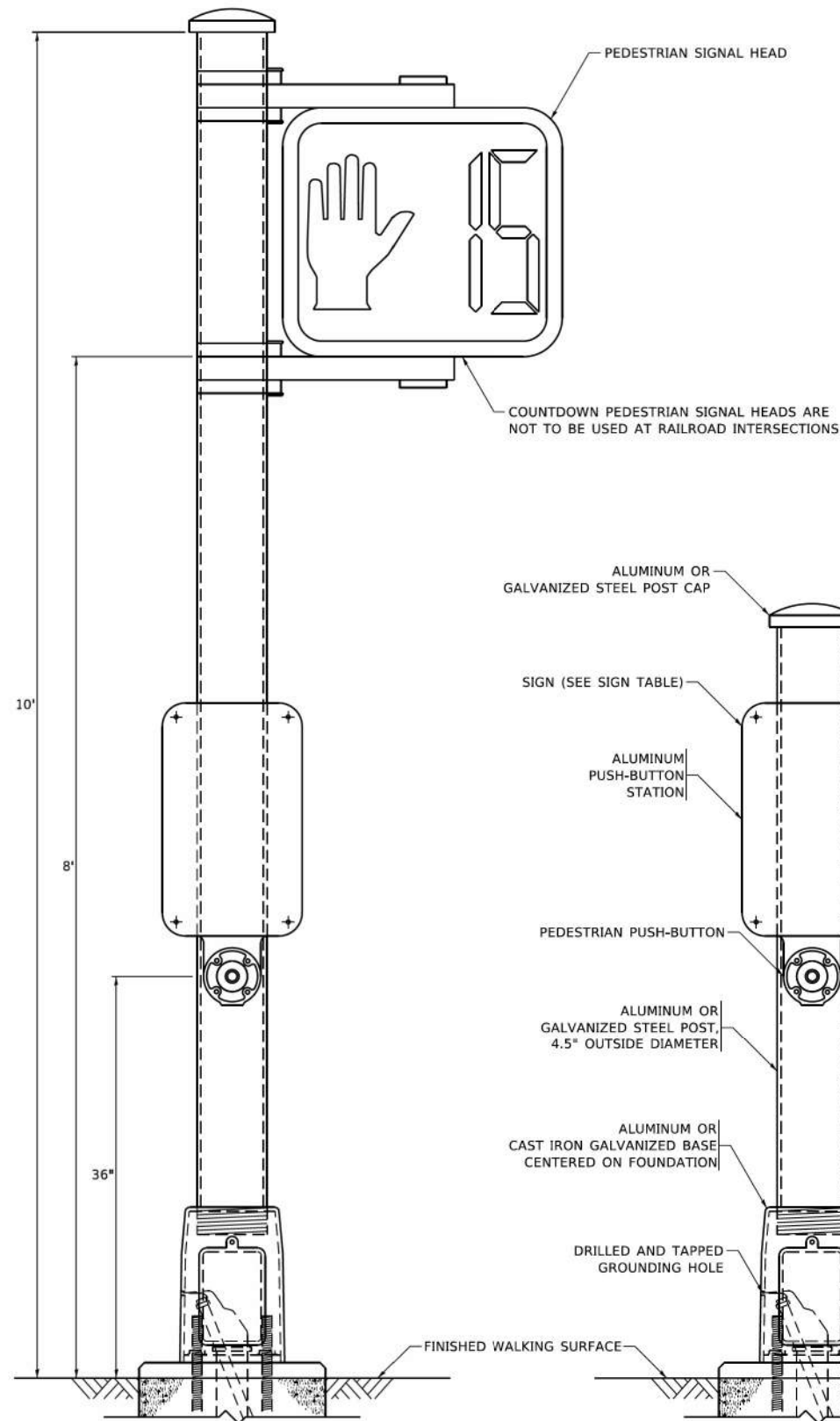
BOLT PATTERN

NOTE:

1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.

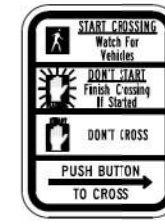


CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER

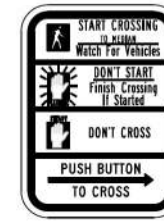


PEDESTRIAN SIGNAL POST, 10 FT.

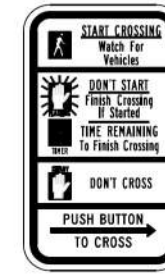
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TS-05			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



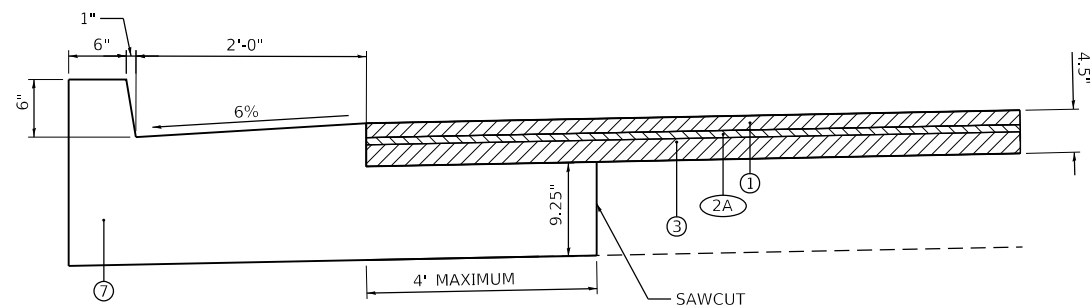
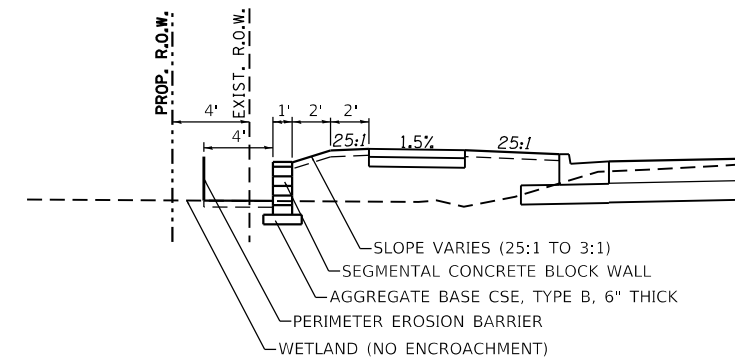
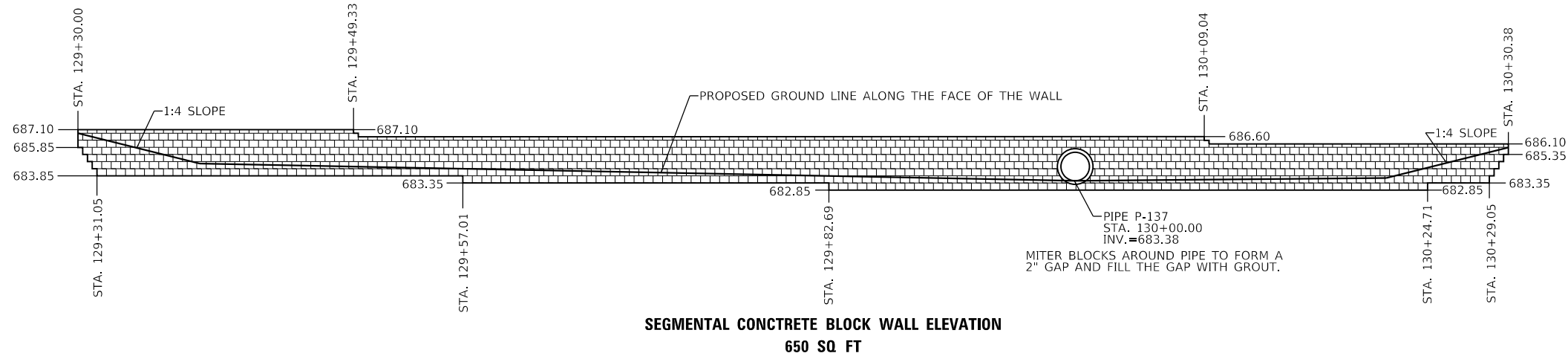
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

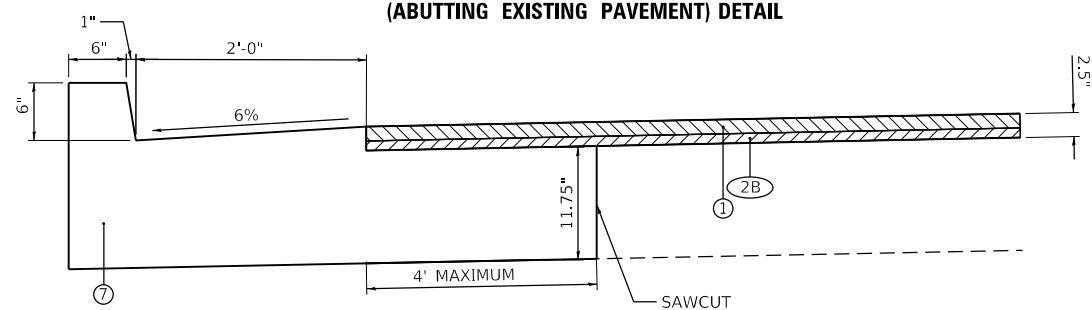
**DISTRICT 1 - STANDARD TRAFFIC SIGNAL
DESIGN DETAILS - 7 OF 7**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	145
			CONTRACT NO. 61K05	
ILLINOIS FED. AID PROJECT				



**WADSWORTH ROAD
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(ABUTTING EXISTING PAVEMENT) DETAIL**



**LEWIS AVENUE
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
(ABUTTING EXISTING PAVEMENT) DETAIL**

PROPOSED LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 (40604062), 1 1/2"
- ②A POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 (40603200), 3/4"
- ②B POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 (40603200), 1"
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (40603085), 2 1/4"
- ⑦ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)(60605100)

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	DATE - 08/09/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: 1"=5' SHEET 1 OF 1 SHEETS STA. TO STA.

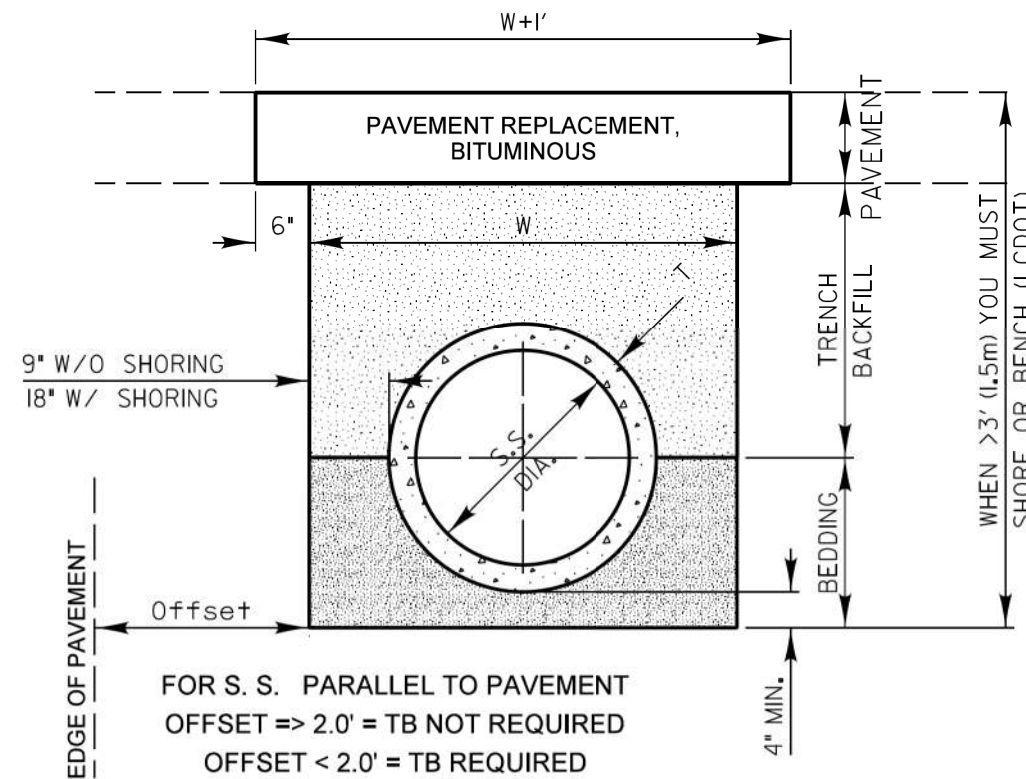
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1209	13-00055-06-WR	LAKE	228	146
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

ENGLISH		TRENCH WIDTH (W)		MIN OFFSET FROM E.O.P.* FOR NO TB		½ PIPE AREA [O.D.]
S.S. DIA.	T	WITHOUT SHORING	WITH SHORING	WITHOUT SHORING	WITH SHORING	(SQ FT)
(IN)	(IN)	(FT)	(FT)	(FT)	(FT)	
10	2.00	2.67	4.17	3.33	4.08	0.53
12	2.00	2.83	4.33	3.42	4.17	0.70
15	2.25	3.13	4.63	3.56	4.31	1.04
18	2.50	3.42	4.92	3.71	4.46	1.44
21	2.75	3.71	5.21	3.85	4.60	1.92
24	3.00	4.00	5.50	4.00	4.75	2.45
27	3.25	4.29	5.79	4.15	4.90	3.06
30	3.50	4.58	6.08	4.29	5.04	3.73
36	4.00	5.17	6.67	4.58	5.33	5.28
42	4.50	5.75	7.25	4.88	5.63	7.09
48	5.00	6.33	7.83	5.17	5.92	9.17

* TO CENTER LINE OF PIPE

DESIGN NOTES:

1. Trench backfill is required if the storm sewer or culvert offset from the edge of the pavement is less than the tabulated values (the inner trench wall is closer than 2' to the edge of pavement)
2. Payment for the trench backfill shall not exceed the quantity computed using the maximum trench width dimensions. If the trench is excavated beyond these limits, the contractor shall furnish and place any additional trench backfill at his/her expense.
3. If the trench width is less than the above maximum values, payment will be based on the actual dimensions of the dug trench.
4. Bedding shall be placed from 4" under the pipe to the spring line of the pipe and is incidental to the corresponding storm sewer or culvert pay item.
5. If any part of the excavation for a drainage structure falls within 2' of the edge of pavement, the space between the side of the excavation and the outer surface of the drainage structure shall be filled with trench backfill. The cost of this item is included in the pay item for the drainage structure.



SCALE: 1" = 2'

REVISIONS	DATE
Text Revision	11/06/07
Text Update	7/14/11



APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

TRENCH WIDTHS FOR TRENCH BACKFILL & PAVEMENT REPLACEMENT, BITUMINOUS

LC0020

MODEL: Default; FILE: Model; Path: \\rsandh-bk-bentley\c\com\rsandh\p\01\Documents\Transportation\Projects\1122723\001 - Wadsworth Road Phase II\CAD_CPI\CAD_Sheets\LCDOT STD\CP1-rft-dec-01.dgn



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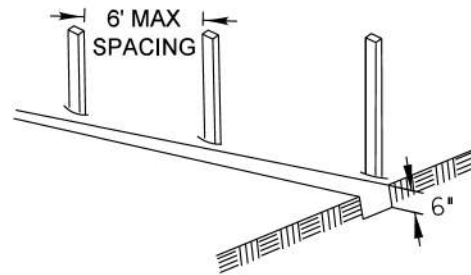
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

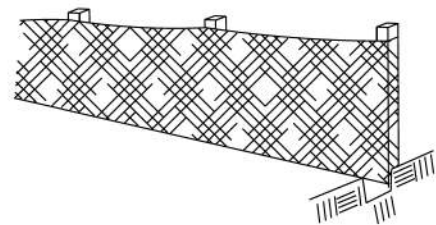
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

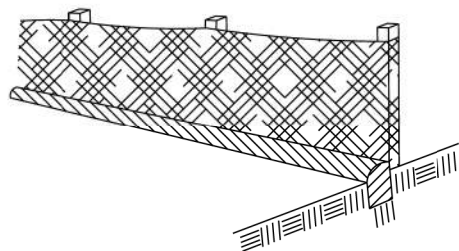
1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS



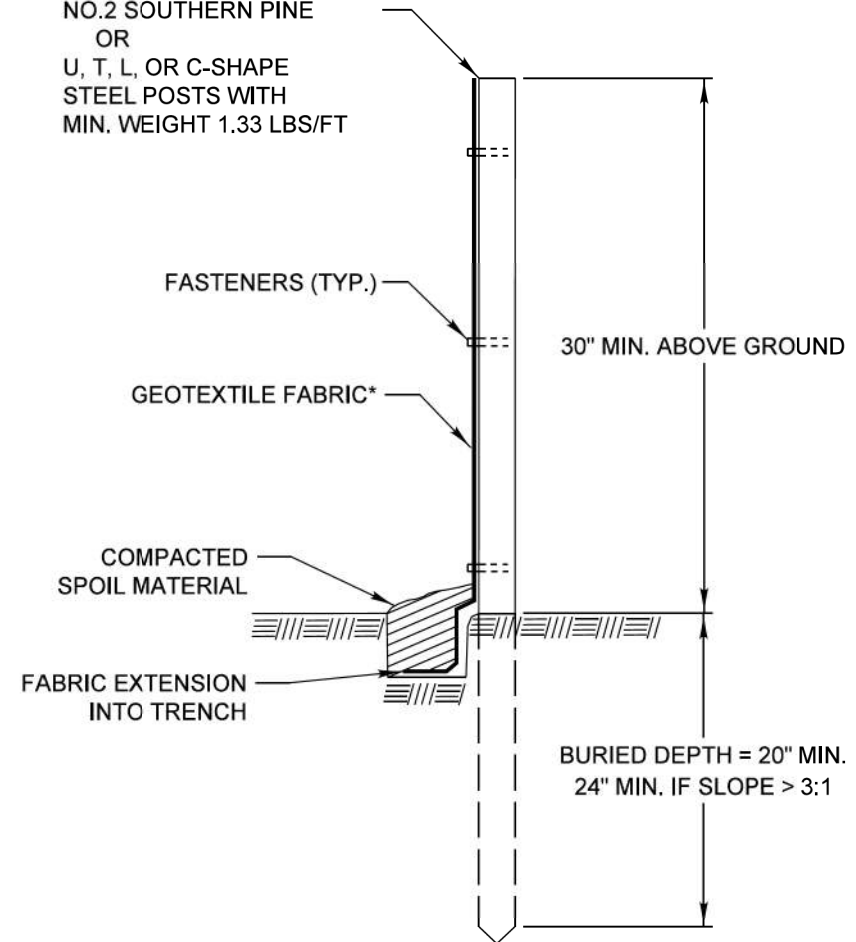
2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH



3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS



POSTS - CHOICE OF:
 1.2" X 1.2" NOMINAL
 HARDWOOD POSTS
 2.6" X 2.6" NOMINAL
 NO.2 SOUTHERN PINE
 OR
 U, T, L, OR C-SHAPE
 STEEL POSTS WITH
 MIN. WEIGHT 1.33 LBS/FT



* NOTE: OPTIONAL WIRE SUPPORT
 - MIN. 30" HEIGHT
 - MIN. 14 GAUGE WIRE
 - MIN. 6 HORIZ. WIRES
 - MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

Requirements	Test Methods	Wire Backed Supported Silt Fence ^a	Unsupported Silt Fence	
			Geotextile Elongation >=50% ^b	Geotextile Elongation <50% ^b
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100lbs
Permittivity ^c	ASTM D 4491	0.05 sec ⁻¹	0.05 sec ⁻¹	0.05 sec ⁻¹
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

REVISIONS	DATE
ORIG. by LCSMC	4/21/08
Update Text	7/15/11


APPROVED BY: M. G. ZEMAITIS
DATE: JUNE 20, 2008

PERIMETER EROSION BARRIER INSTALLATION

LC2051

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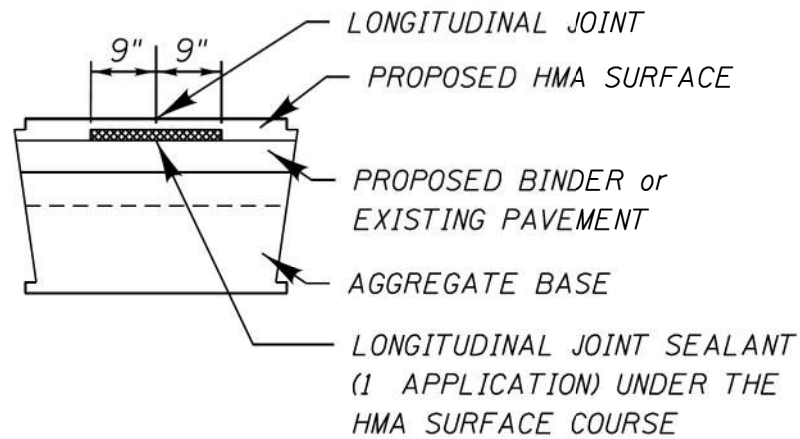
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

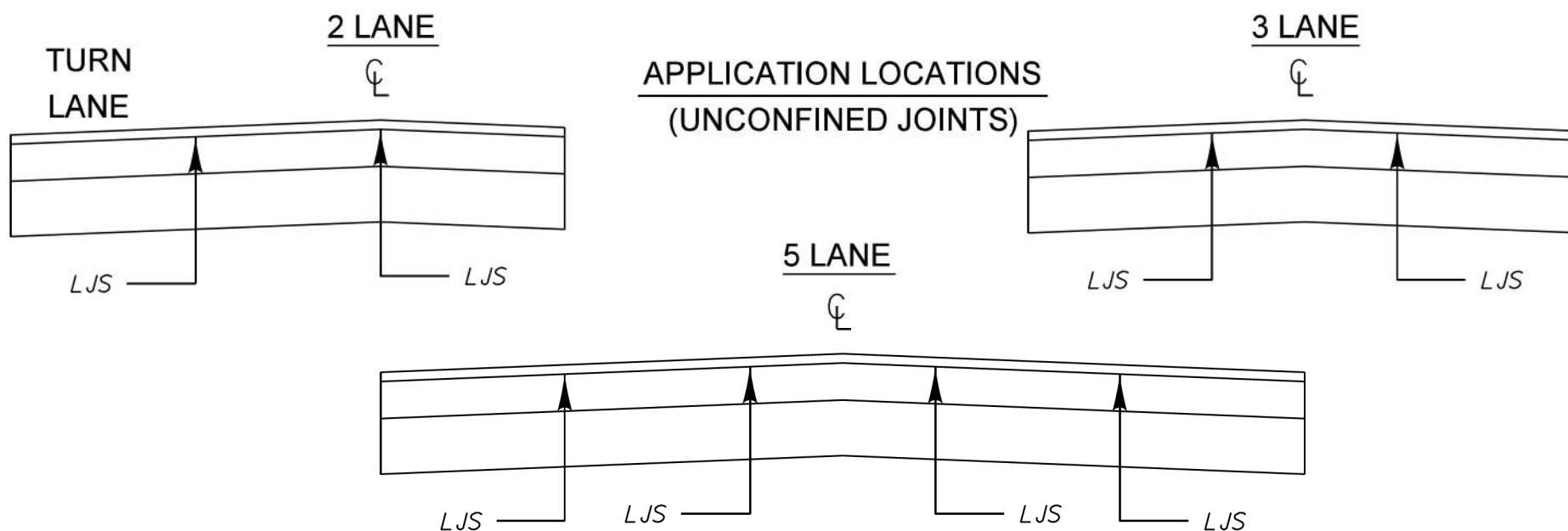
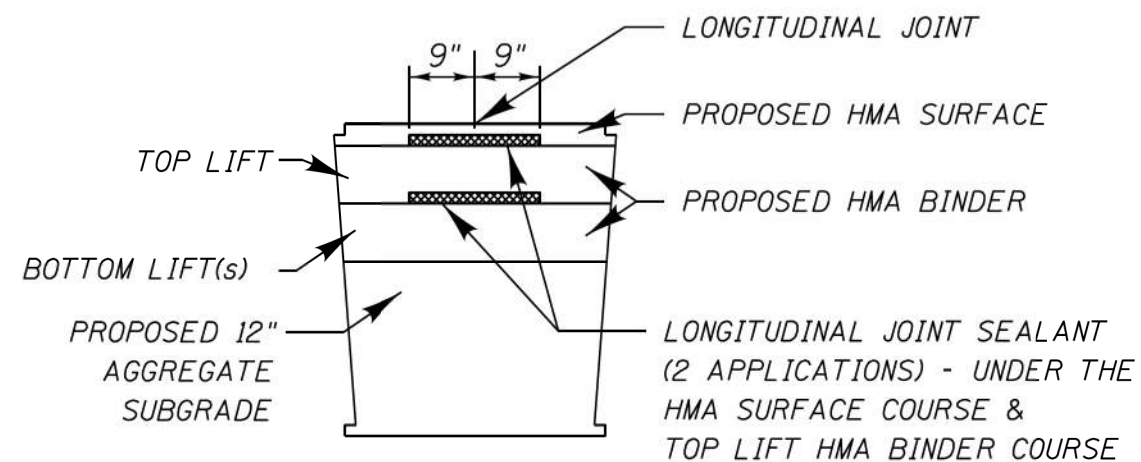
LCDOT STANDARD DETAIL
 SCALE: N/A SHEET 2 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	148
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

LJS = LONGITUDINAL JOINT SEALANT
RESURFACING SECTION



LJS = LONGITUDINAL JOINT SEALANT
RECONSTRUCTION SECTION



IDOT GUIDANCE

Full-Depth HMA Pavements

Under the surface lift & Under the top binder lift

HMA Resurfacing

Under the surface lift

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS	
Removed References to Leveling Binder	10/30/23	DATE: OCT 1, 2022	



TYPICAL LJS APPLICATION

LC4025

MODEL: Default
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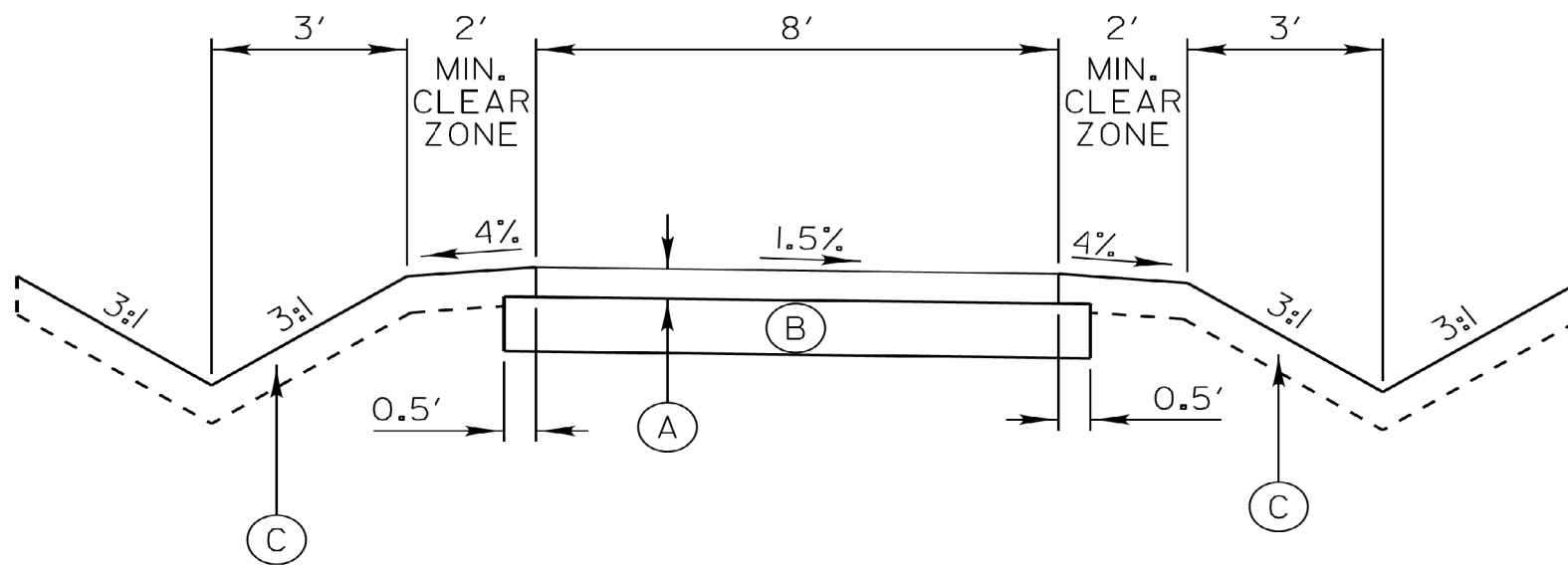
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PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 3 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	149
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



- Ⓐ 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
- Ⓑ AGGREGATE BASE COURSE, TYPE B 6"
- Ⓒ FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

DESIGN NOTE:

If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

SCALE:
VERTICAL 1" = 2'
HORIZONTAL 1" = 4'

REVISIONS	DATE
Changed BP to 3' Surface	5/1/2008
Modified Agg. Base Course	3/1/2011
Change To Mix "D"	2/20/12
Revised Type A to Type B Aggregate	12/20/12
1.5% Path Slope	9/11/2015



APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

**TYPICAL SECTION
8' HOT-MIX ASPHALT
BIKEPATH**

LC4051

MODEL: Default
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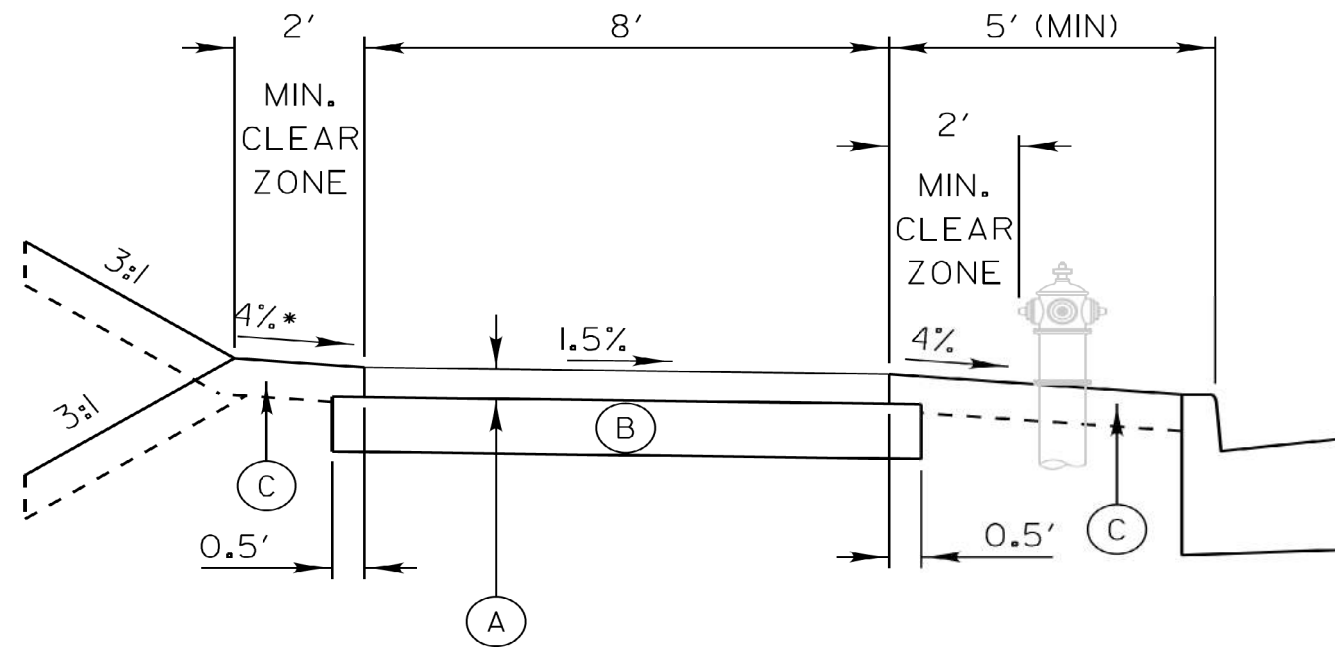
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 4 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	150
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



- (A) 3" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
- (B) AGGREGATE BASE COURSE, TYPE B 6"
- (C) FURNISHING AND PLACING TOPSOIL, 4", and SEEDING, CLASS 2A or SODDING

DESIGN NOTE:

*Slope away from road in fill sections
Slope toward road in cut sections

If the Bike Path is being constructed in conjunction with the road improvement, then the Hot-Mix Asphalt mixes shall be the same as those used on the road in order to avoid multiple mix requirements.

SCALE:
VERTICAL 1" = 2'
HORIZONTAL 1" = 4'

REVISIONS	DATE
Changed BP to 3' Surface	5/1/2008
Modified Agg. Base Course	3/1/2011
Change To Mix "D"	2/20/2012
Revised Type A to Type B Aggregate	12/20/12
1.5% Path Slope	9/11/2015



APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

**TYPICAL SECTION
8' HOT-MIX ASPHALT
BIKEPATH IN VICINITY OF
CURB & GUTTER**

LC4052

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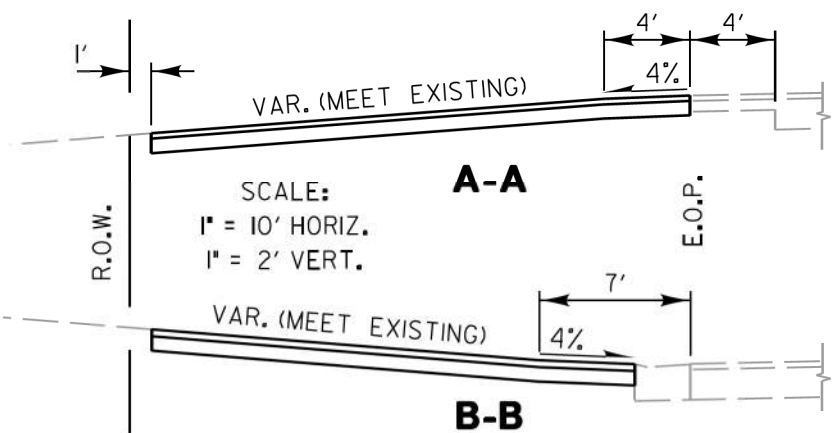
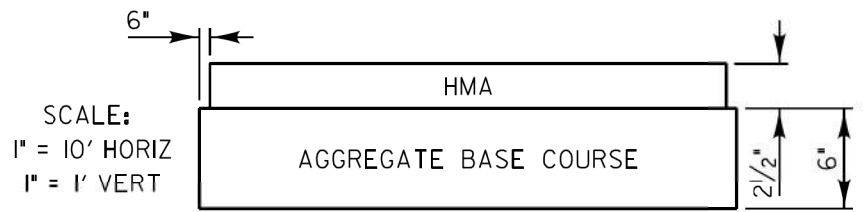
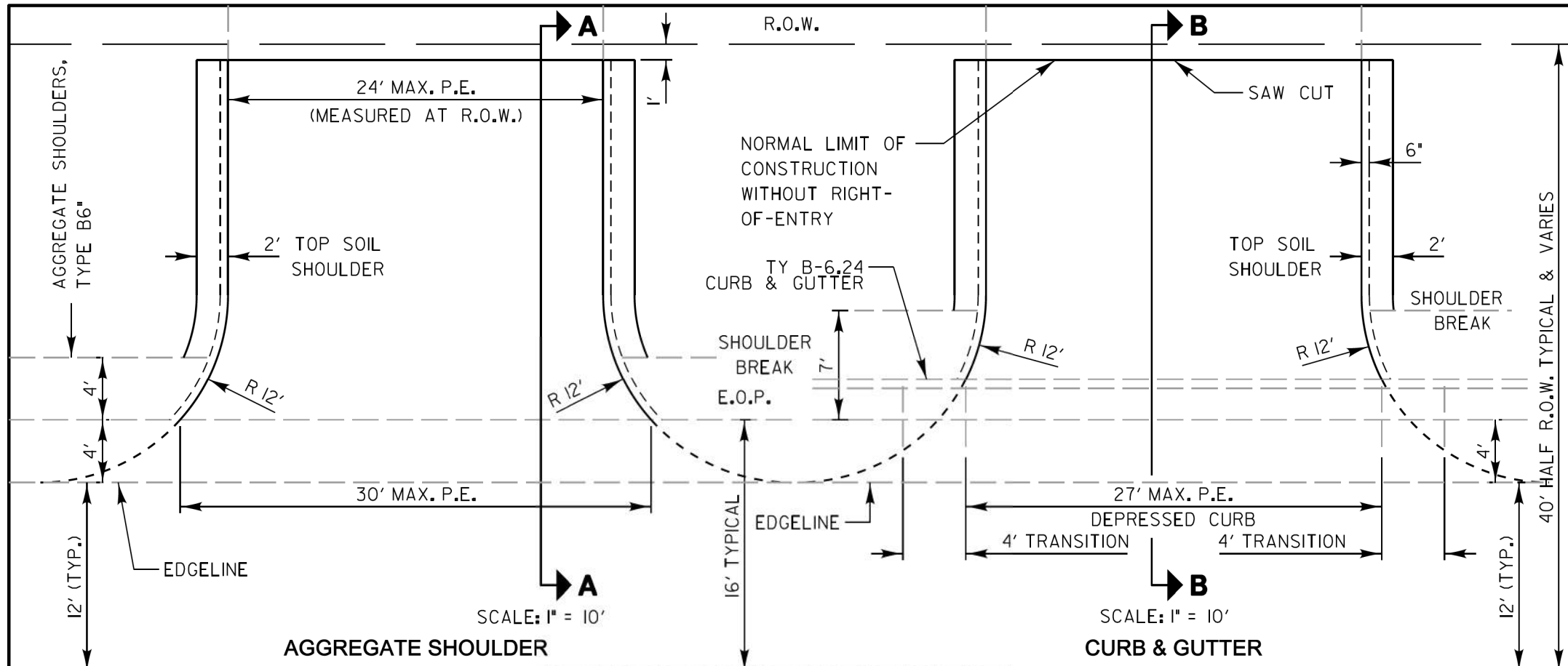
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PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 5 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	151
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



PEs: 2 1/2" HOT-MIX ASPHALT SURFACE COURSE on 6" AGGREGATE BASE COURSE, TYPE B

Calculated Quantities for PRIVATE ENTRANCE w/o Curb and Gutter:

- HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness
Area = 63.0 Sq Yd
63.0 Sq Yd X 112 lb/Sq Yd/Inch x 2.5 Inches = **9 Ton**
- Aggregate Base Course Weight Used = 2 Ton/Cu Yd
65.7 Sq Yd x 2 Ton/Cu Yd x 6 Inch thickness = **22 Ton**

Calculated Quantities for PRIVATE ENTRANCE with Curb and Gutter:

- HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness
Area = 55.0 Sq Yd
55.0 Sq Yd X 112 lb/Sq Yd/Inch x 2.5 Inches = **8 Ton**
- Aggregate Base Course Weight Used = 2 Ton/Cu Yd x 6 Inch thickness = **19 Ton**

REVISIONS	DATE	Lake County Division of Transportation	APPROVED BY: M. G. ZEMAITIS DATE: APRIL 1, 2007
Removed Prime Coat Qty	5/20/08		
Revised Ent. EOP Radius	6/4/10		
Revised Type A to Type B Aggregate	12/20/12		
Revised Curb Transition	1/7/15		

**TYPICAL MINOR ACCESS
(PRIVATE ENTRANCE)**

LC4100

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 11/30/2023



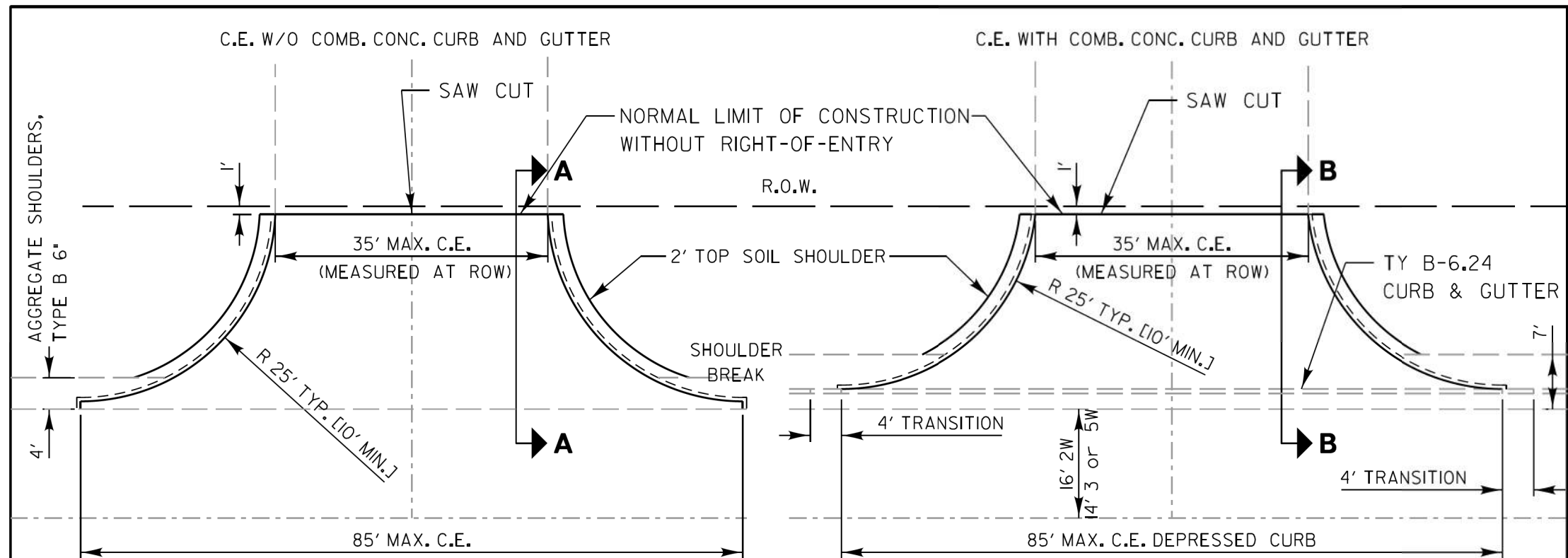
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LCDOT STANDARD DETAIL

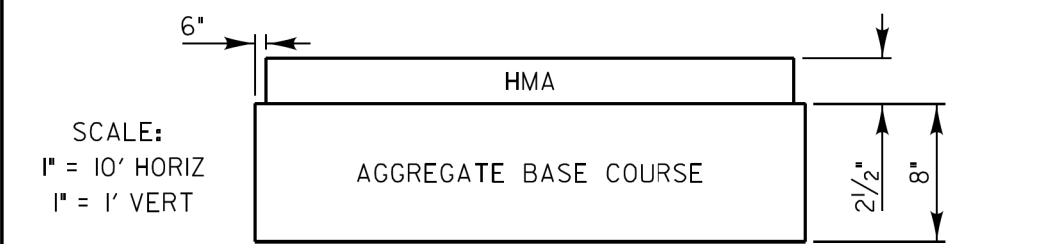
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	152
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



SCALE: 1" = 20'
AGGREGATE SHOULDER

SCALE: 1" = 20'
CURB & GUTTER



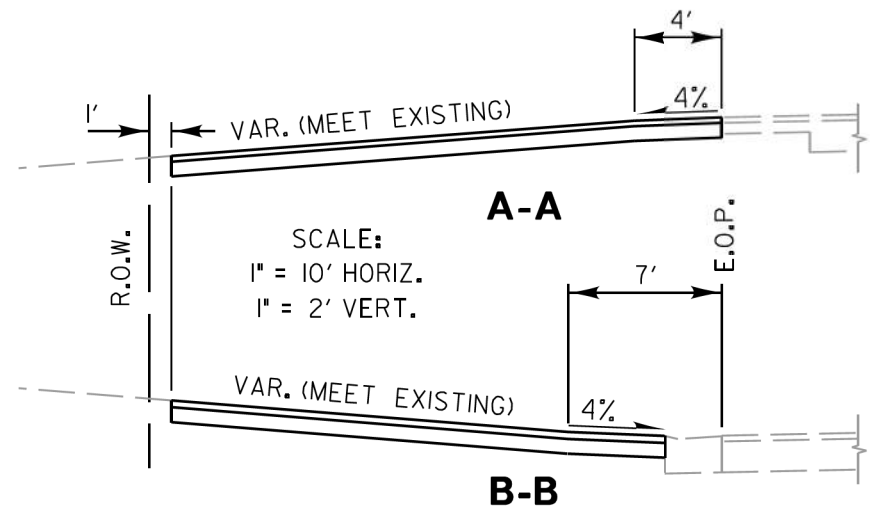
CEs: 2 1/2" HOT-MIX ASPHALT CONCRETE SURFACE COURSE on 8" AGGREGATE BASE COURSE, TYPE B

Calculated Quantities for COMMERCIAL ENTRANCE w/o Curb & Gutter above:

- HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness
 Area = 132.6 Sq Yd
 132.6 Sq Yd x 112 lb/Sq Yd/Inch x 2.5 Inches = **19 Ton**
- Aggregate Base Course Weight Used = 2 Ton/Cu Yd
 137.0 Sq Yd x 2 Ton/Cu Yd x 8 Inch thickness = **61 Ton**

Calculated Quantities for COMMERCIAL ENTRANCE with Curb & Gutter above:

- HMA Surface Course Weight Used = 112 lbs/Sq Yd/Inch thickness
 Area = 116.3 Sq Yd
 116.3 Sq Yd x 112 lb/Sq Yd/Inch x 2.5 Inches = **16 Ton**
- Aggregate Base Course Weight Used = 2 Ton/Cu Yd
 120.4 Sq Yd x 2 Ton/Cu Yd x 8 Inch thickness = **54 Ton**



REVISIONS	DATE
Removed Prime Coat Qty	5/20/08
Revised Type A to Type B Aggregate	12/20/12
Revised Curb Transition	1/7/15

LakeCounty
 Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

TYPICAL MAJOR ACCESS (COMMERCIAL ENTRANCE)

LC4101

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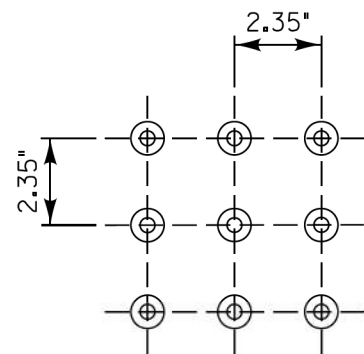


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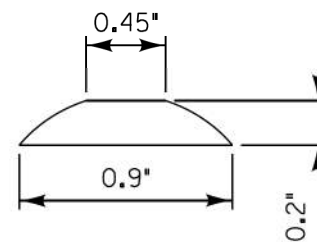
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL
 SCALE: N/A SHEET 7 OF 33 SHEETS

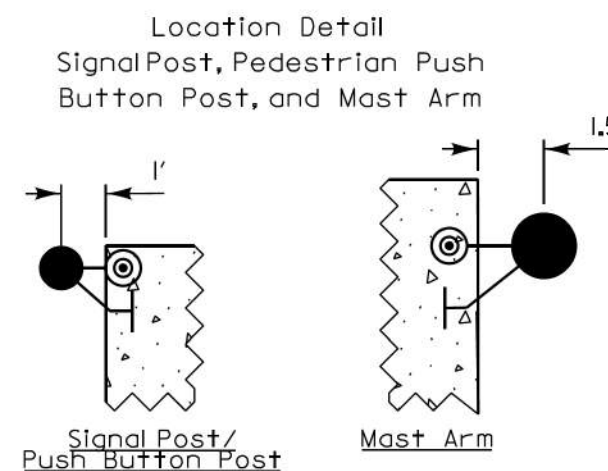
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	153
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



Detail
Detectable Warnings
Square Pattern
(Scale 1" = 6")



Detail
Truncated Dome
(Scale 1" = 1")



Signal Post/
Push Button Post

Mast Arm

•GENERAL NOTES:

1. Cross slopes on sidewalks and paths shall not exceed 1.5% except at locations detailed on the plans.
2. Only whole cast iron panels from the manufacturer shall be used for the detectable warnings. Cut panels shall not be allowed.
3. The gutter slope for the DEPRESSED CURB adjacent to the curb ramp shall be a maximum of 5% (standard curb and gutter is 6%). The back of curb rise shall be a maximum of 1/2" (standard depressed curb is 1/2"). See IDOT standard 606001 for the different curb dimensions.
4. The Depressed Curb and the Transition Curb will be paid for as COMBINATION CONCRETE CURB AND GUTTER of the type adjacent to the curb ramp.
5. The DETECTABLE WARNINGS shall be installed according to Article 424.09 of the IDOT Standard Specifications and the LCDOT specification 42400800 DETECTABLE WARNINGS. Detectable warnings shall be measured and paid for per square foot.

REVISIONS	DATE
Added Warning Details	8/1/2009
Updates & Remove Duplicates	7/14/2015
Remove Fanning of Panels	12/16/2020



APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

**DETECTABLE WARNINGS
and PEDESTRIAN
PUSHBUTTON LOCATIONS**

LC4201

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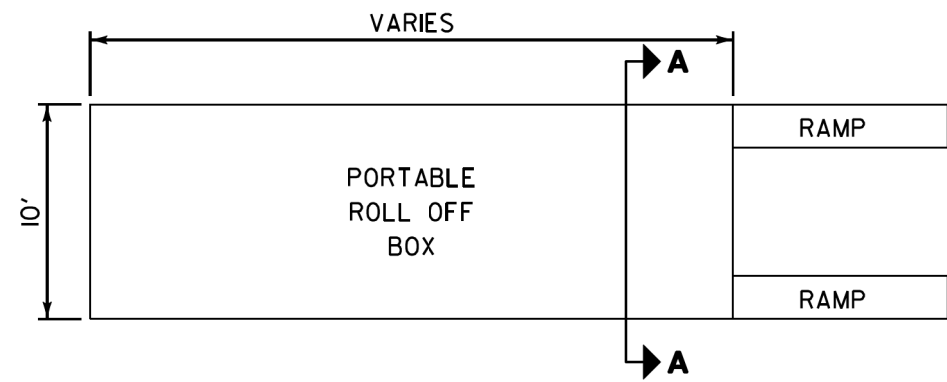
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

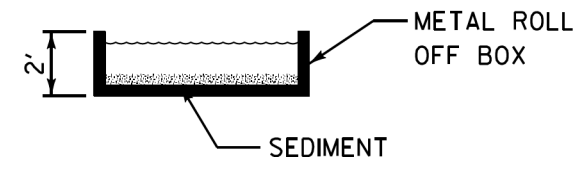
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

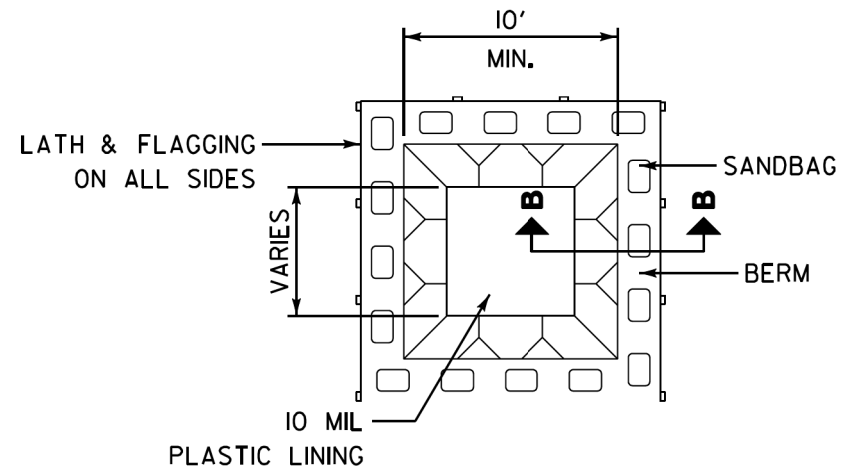


PLAN VIEW

PREFAB PORTABLE WASHOUT

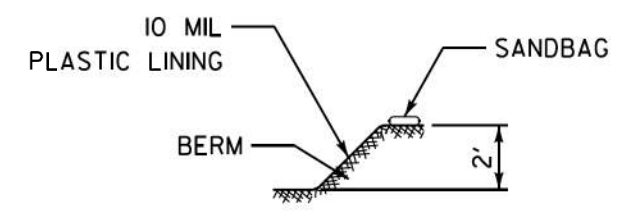


SECTION A-A



PLAN VIEW

BELOW GRADE



SECTION B-B

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS	DATE

LakeCounty
 Division of Transportation

APPROVED BY: MGZ
DATE: March 17, 2008

CONCRETE WASHOUT FACILITIES
 SHEET 1 OF 2

LC4202

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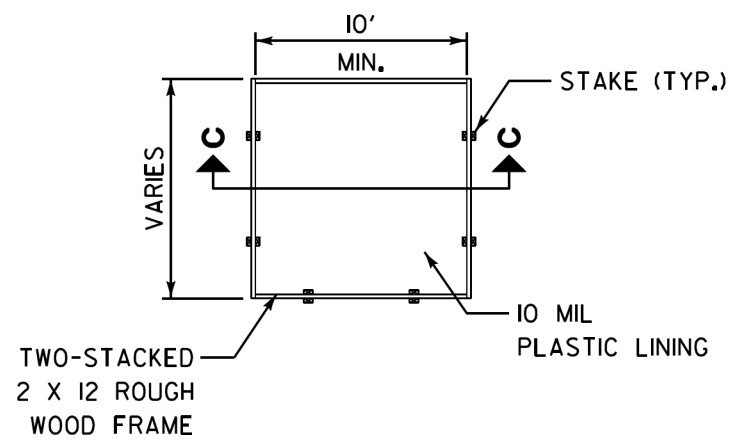
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N/A	SHEET 9 OF 33 SHEETS
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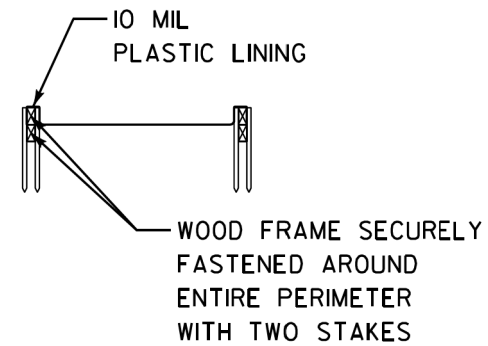
LCDOT STANDARD DETAIL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

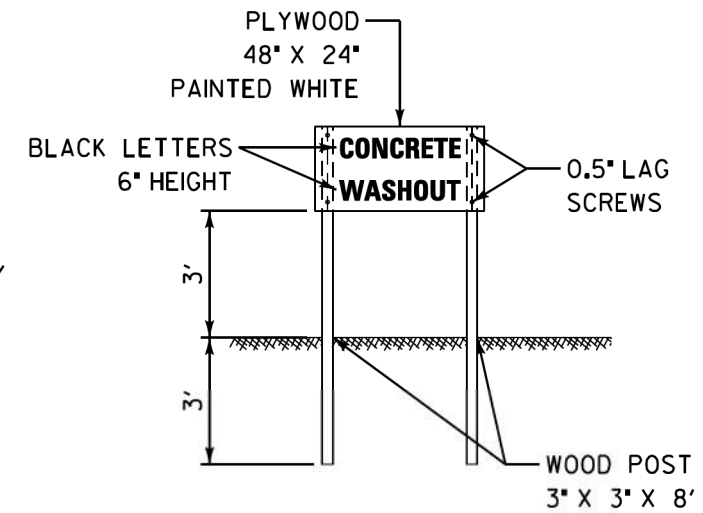


PLAN VIEW

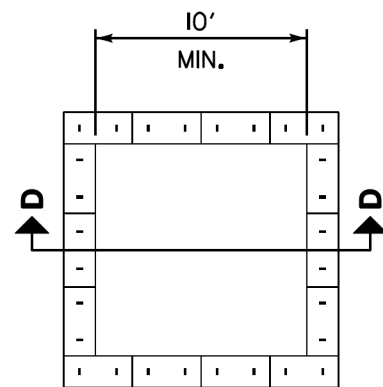
ABOVE GRADE



SECTION C-C

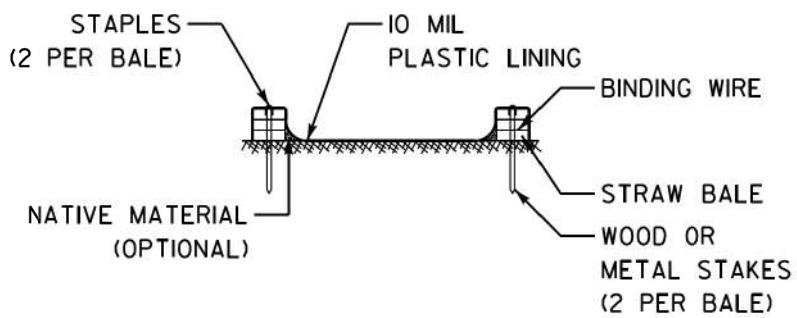


CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

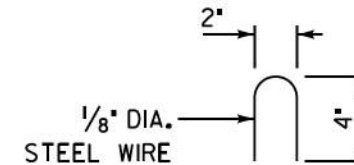


PLAN VIEW

ABOVE GRADE WITH STRAW BALES



SECTION D-D



STAPLE DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS	DATE	Lake County Division of Transportation		APPROVED BY: MGZ DATE: March 17, 2008
		CONCRETE WASHOUT FACILITIES SHEET 2 OF 2		LC4202

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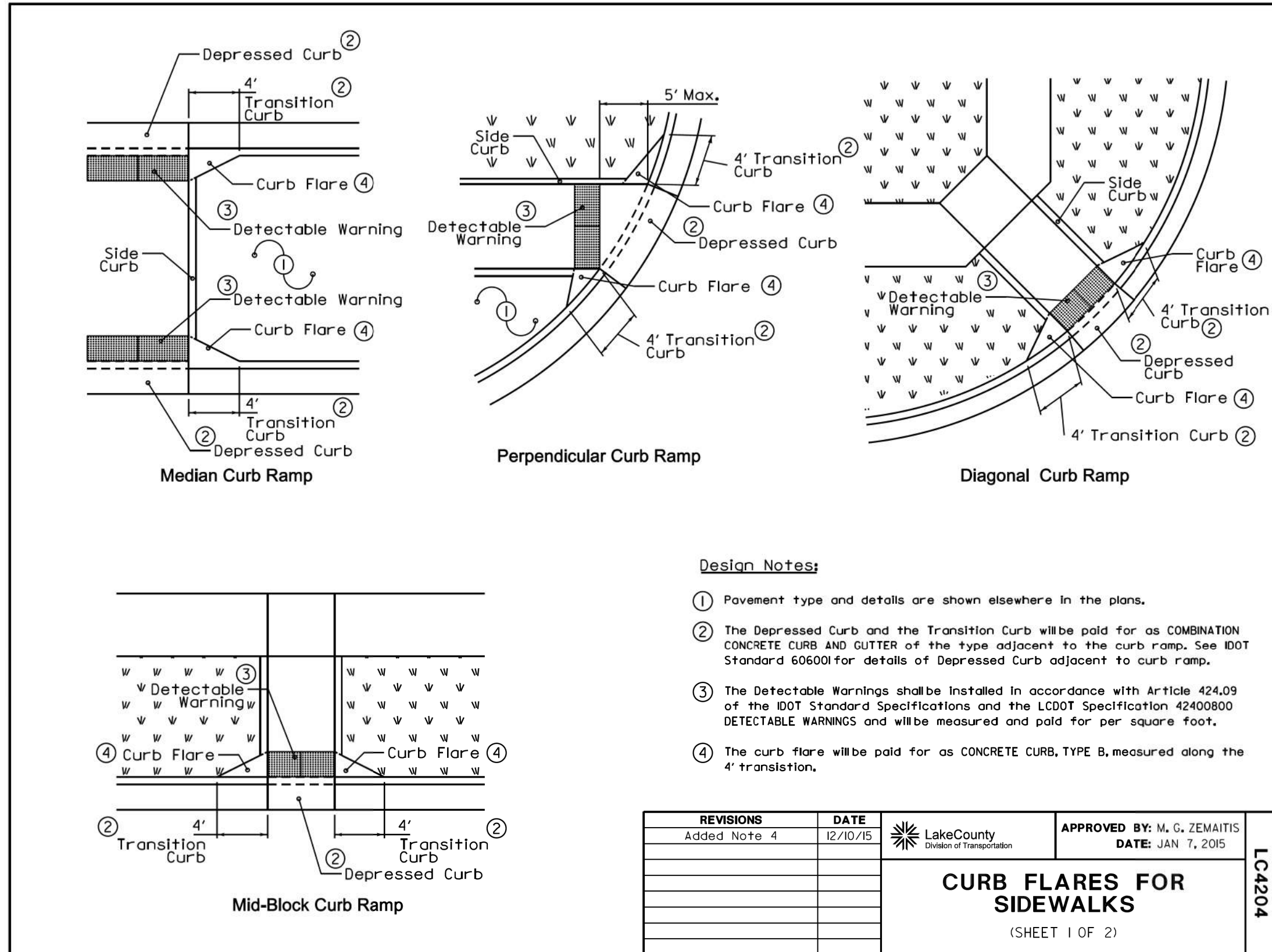
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 10 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	156
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



Design Notes:

- ① Pavement type and details are shown elsewhere in the plans.
- ② The Depressed Curb and the Transition Curb will be paid for as COMBINATION CONCRETE CURB AND GUTTER of the type adjacent to the curb ramp. See IDOT Standard 60600I for details of Depressed Curb adjacent to curb ramp.
- ③ The Detectable Warnings shall be installed in accordance with Article 424.09 of the IDOT Standard Specifications and the LCDOT Specification 42400800 DETECTABLE WARNINGS and will be measured and paid for per square foot.
- ④ The curb flare will be paid for as CONCRETE CURB, TYPE B, measured along the 4' transition.

REVISIONS	DATE
Added Note 4	12/10/15

	APPROVED BY: M. G. ZEMAITIS DATE: JAN 7, 2015
	CURB FLARES FOR SIDEWALKS (SHEET 1 OF 2)

LC4204

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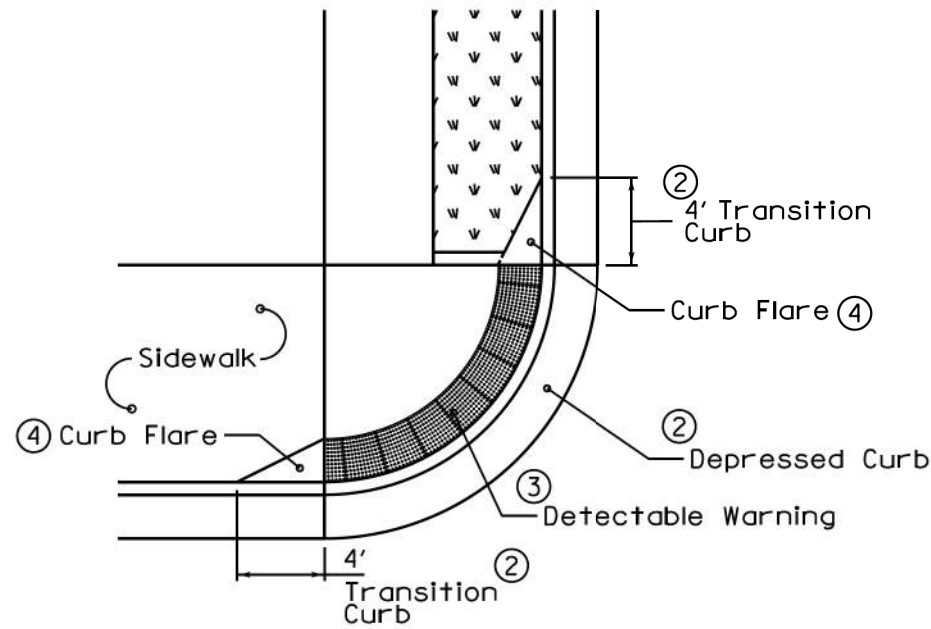
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

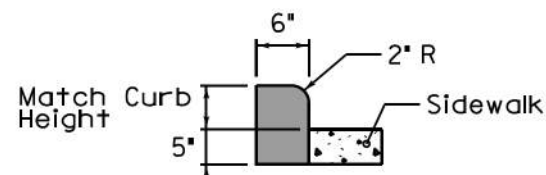
LCDOT STANDARD DETAIL

SCALE: N/A SHEET 11 OF 33 SHEETS

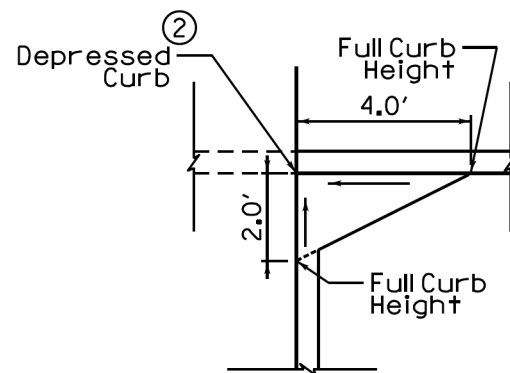
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CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



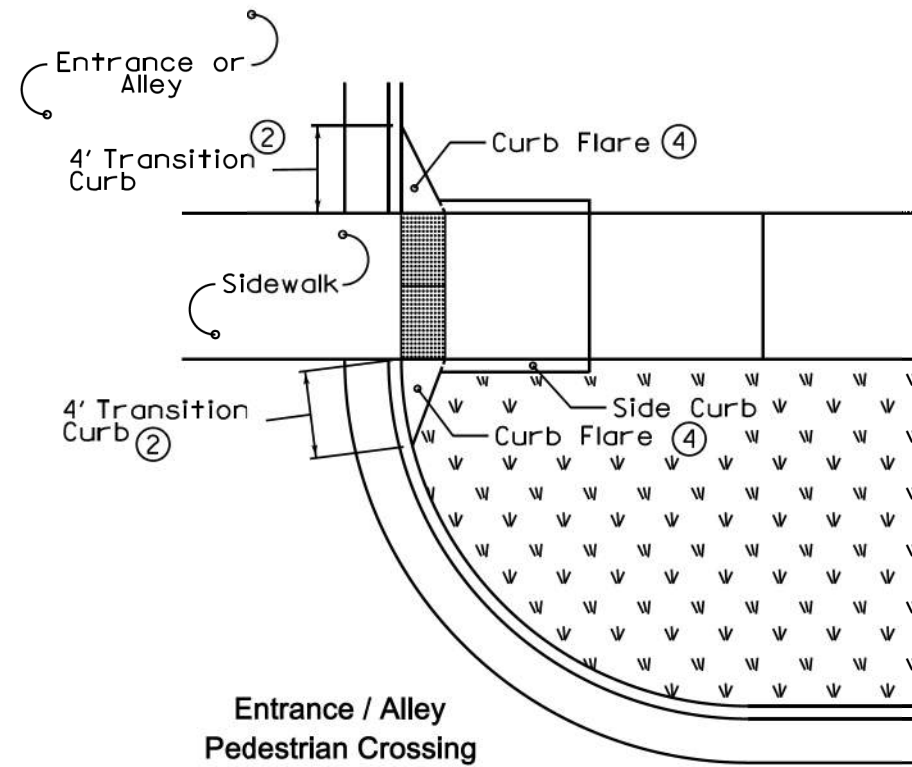
Depressed Corner



Side Curb Type "B" Detail



Curb Flare Detail ④



Entrance / Alley Pedestrian Crossing

Design Notes:

- ① Pavement type and details are shown elsewhere in the plans.
- ② The Depressed Curb and the Transition Curb will be paid for as COMBINATION CONCRETE CURB AND GUTTER of the type adjacent to the curb ramp. See IDOT Standard 60600I for details of Depressed Curb adjacent to curb ramp.
- ③ The Detectable Warnings shall be installed in accordance with Article 424.09 of the IDOT Standard Specifications and the LCDOT Specification 42400800 DETECTABLE WARNINGS and will be measured and paid for per square foot.
- ④ The curb flare will be paid for as CONCRETE CURB, TYPE B, measured along the 4' transition.

REVISIONS	DATE	Lake County Division of Transportation	APPROVED BY: M. G. ZEMAITIS DATE: JAN 7, 2015
Added Note 4	12/10/15		

LC4204

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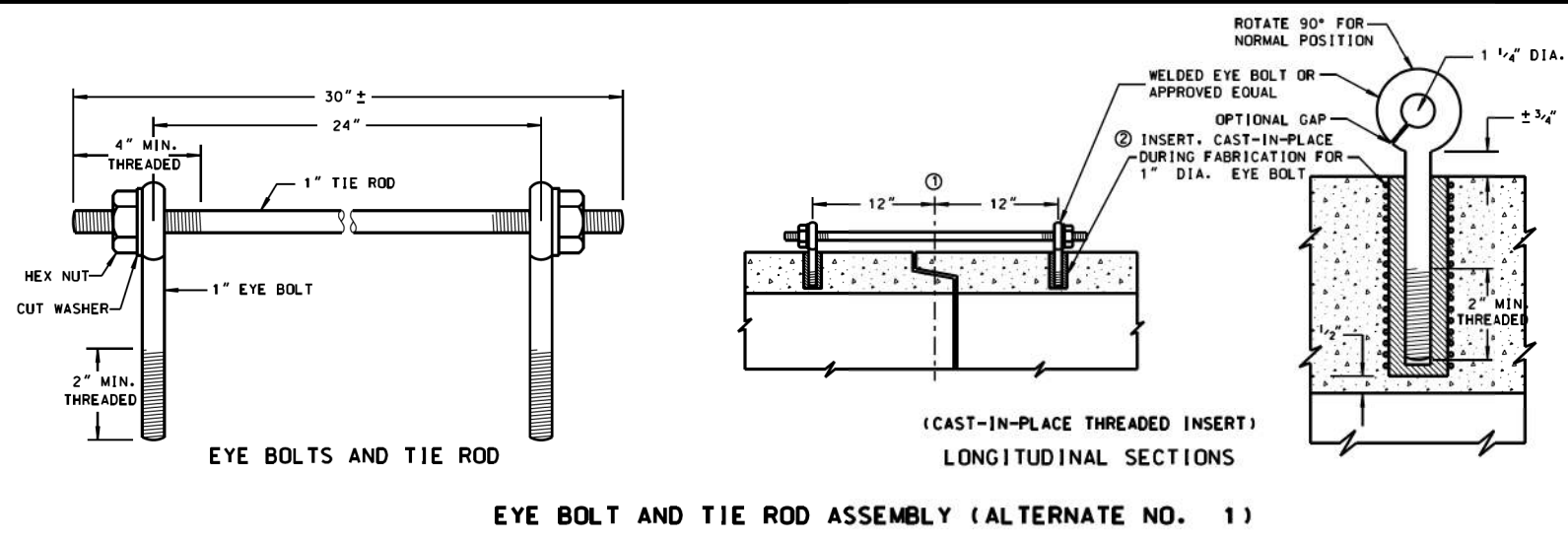
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	DATE - 09/28/2023	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 12 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	158
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS. JOINT TIES AND HARDWARE SHALL BE GALVANIZED STEEL.

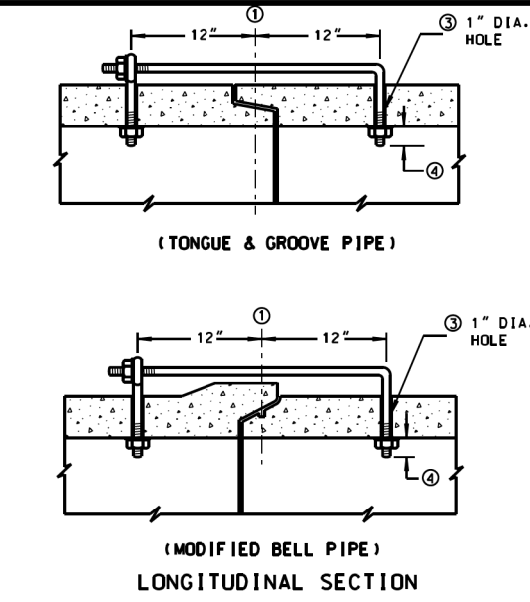
CONCRETE CULVERT PIPE AND SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT THE LAST THREE JOINTS BEFORE A FLARED END SECTION

THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR CONCRETE PIPE.

UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS OR STORM SEWERS.

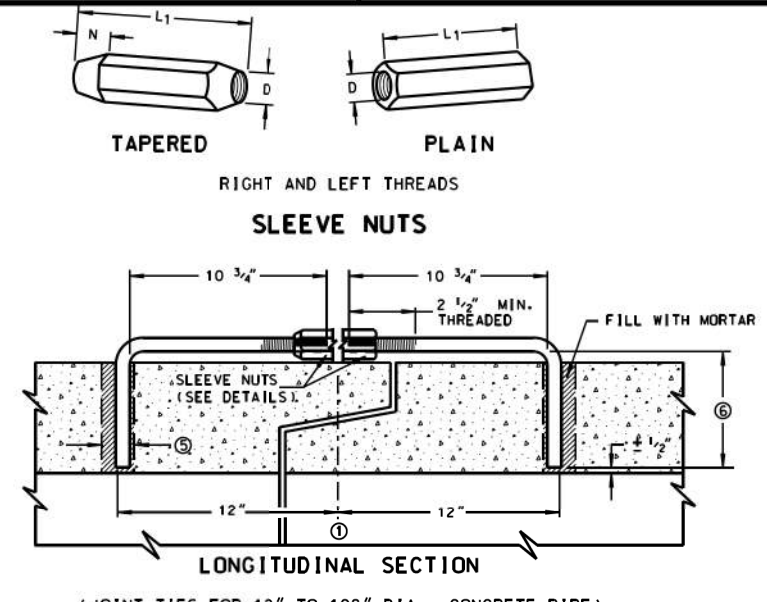
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR GALVANIZED STEEL JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① 1/2" OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
 ② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
 ③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM 1/2" OF TONGUE AND GROOVE.
 ④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".
 ⑤ OPENING TO BE ROD DIAMETER + 1 INCH.
 ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



EYE BOLT DIMENSION TABLE

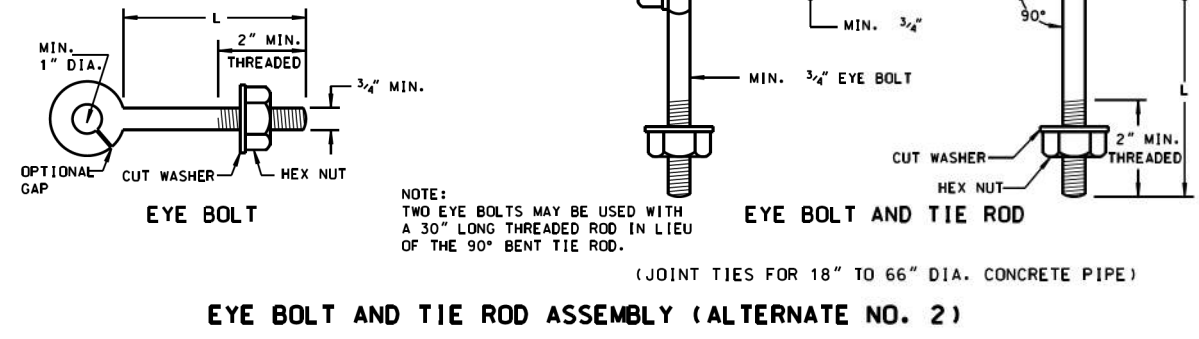
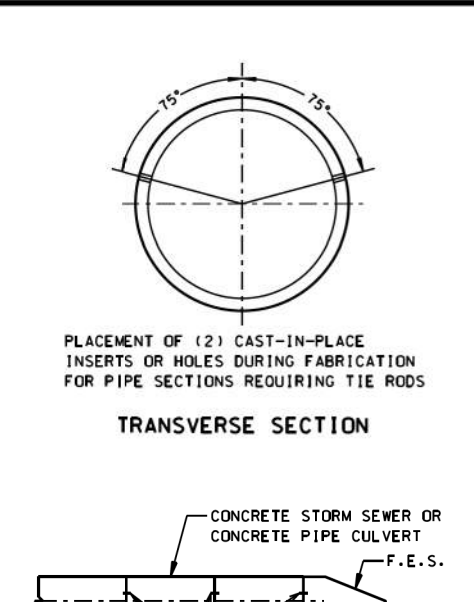
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



NOTE:
TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.

NOT TO SCALE

REVISIONS	DATE
ADDED JOINT TIE MAT'L	7/8/11

LakeCounty
Division of Transportation

APPROVED BY: M. ZEMAITIS
DATE: 04/01/11

JOINT TIES FOR CONCRETE PIPE

LC5402

NO.	REVISIONS / REMARKS	DATE	BY	SURVEYOR/DCSMR/LIAISON

PLOTTED BY: hdmc 7/15/2011

FILE NAME: C:\Documents and Settings\hdmc\My Documents\To ITS\LC5402 JOINT TIES FOR CONCRETE PIPE.dgn

LakeCounty Division of Transportation	PROJECT NAME LAKE COUNTY STANDARDS & DETAILS	ROUTE CH	SECTION -	SECTION NUMBER -	SHEET XX	SHEETS XX
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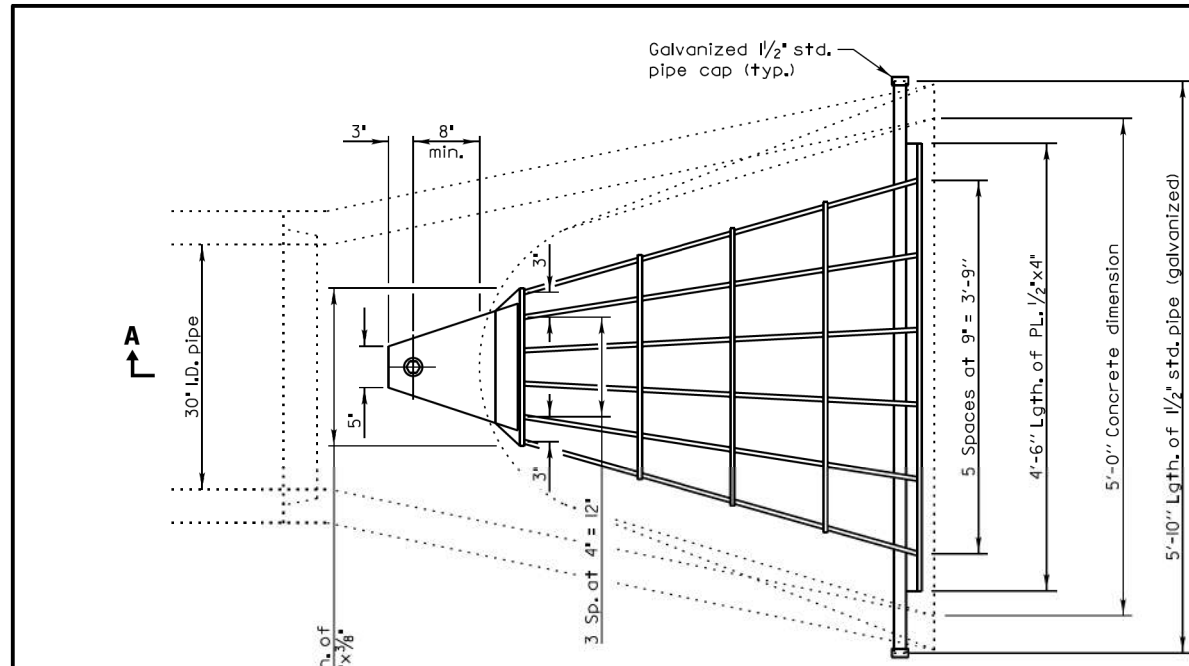
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DATE - 09/28/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

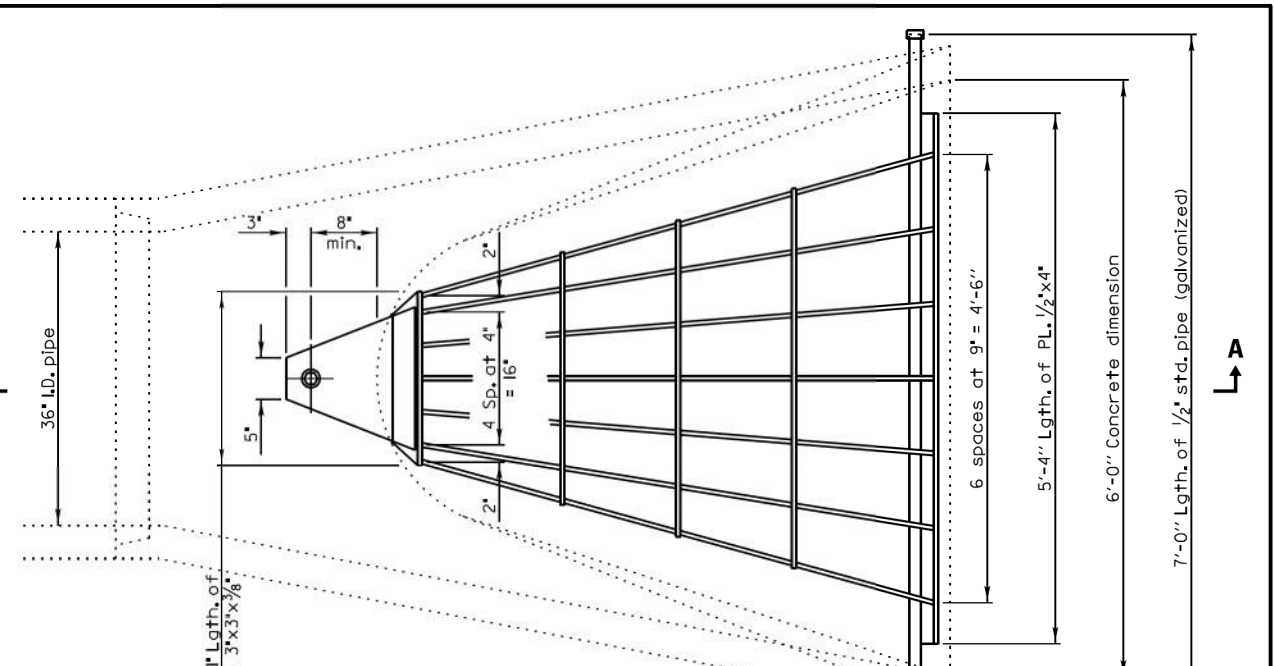
LCDOT STANDARD DETAIL

SCALE: N/A SHEET 13 OF 33 SHEETS

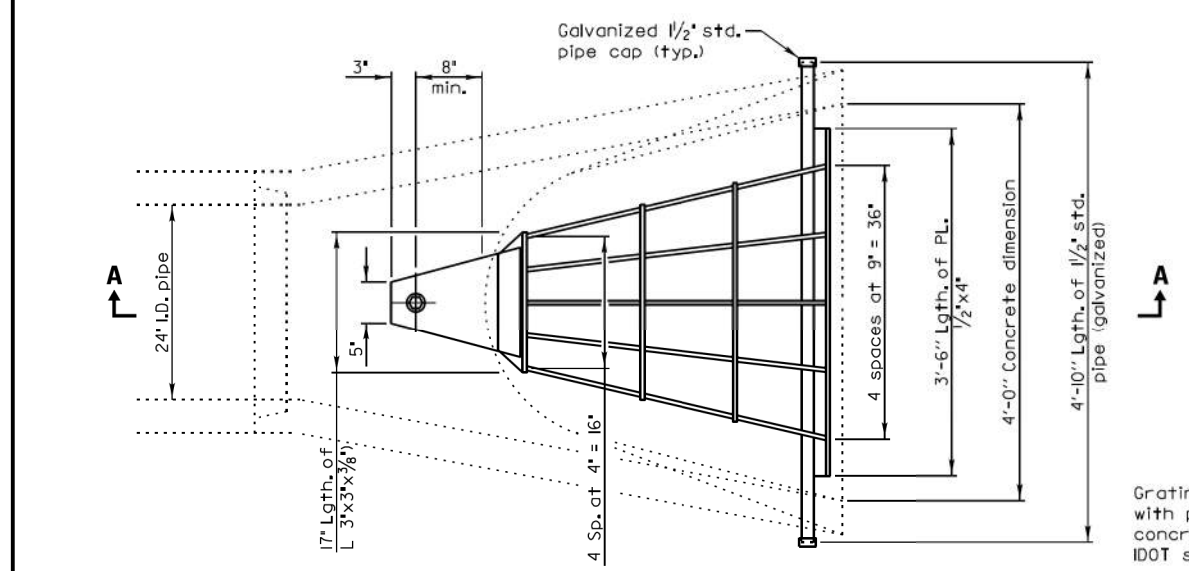
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	159
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



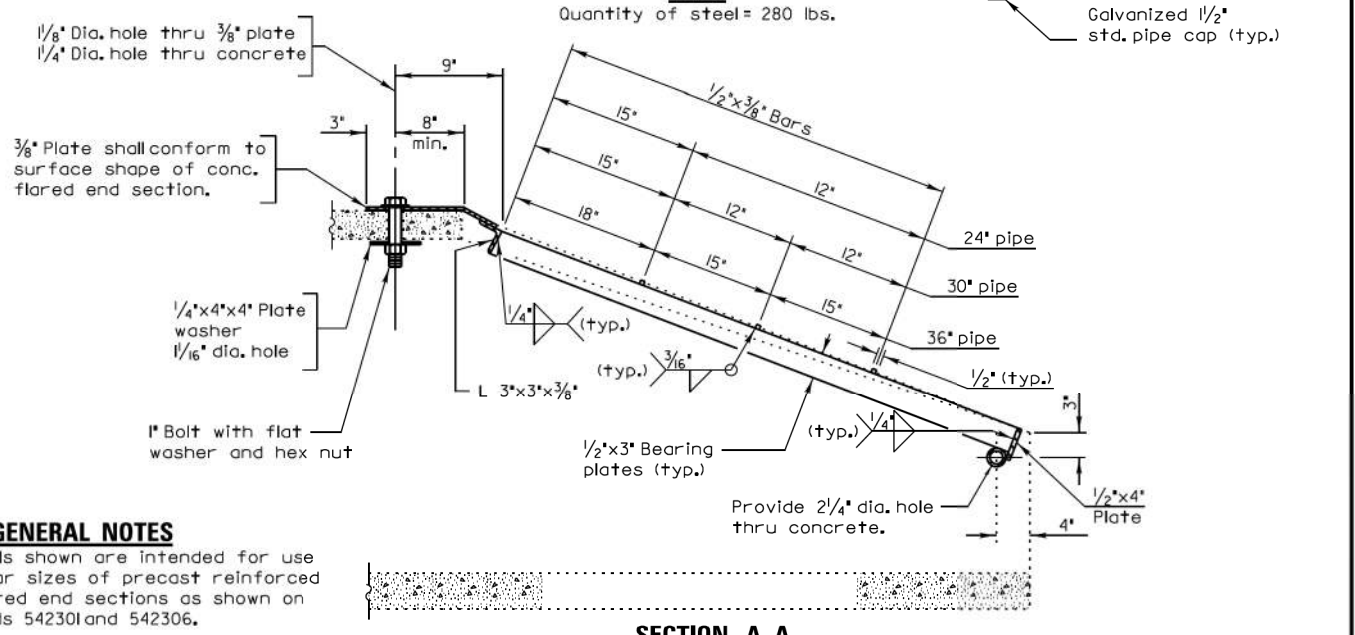
PLAN
Quantity of steel= 210 lbs.



PLAN
Quantity of steel= 280 lbs.



PLAN
Quantity of steel= 150 lbs.



GENERAL NOTES
Grating details shown are intended for use with particular sizes of precast reinforced concrete flared end sections as shown on IDOT standards 542301 and 542306.
Approximate quantity of steel shown includes total quantity of grating, bolts, nuts, washers and steel pipe.
Holes in the precast concrete flared end sections shall be cored to the diameters noted. If cone-out on the other end of the hole occurs, the hole shall be filled with grout to correct the diameter of the hole.

SECTION A-A

REVISIONS	DATE	Lake County Division of Transportation	APPROVED BY: M. G. ZEMAITIS	LC5403
			DATE: DEC. 18, 2014	
			GRATING FOR CONCRETE FLARED END SECTIONS (24"-54")	
			SHEET 1 OF 2	

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR

FILE NAME: U:\Design\Nauman\Lake\Standard Details\LC5403 Grating for Conc Flared End Section 24-54 in pipe.dgn



PROJECT NAME		ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
LAKE COUNTY STANDARDS & DETAILS		CHXX	XXX	XX-00XXX-XX-XX	X	X

MODEL: Default
FILE NAME: U:\Design\Nauman\Lake\Standard Details\LC5403 Grating for Conc Flared End Section 24-54 in pipe.dgn



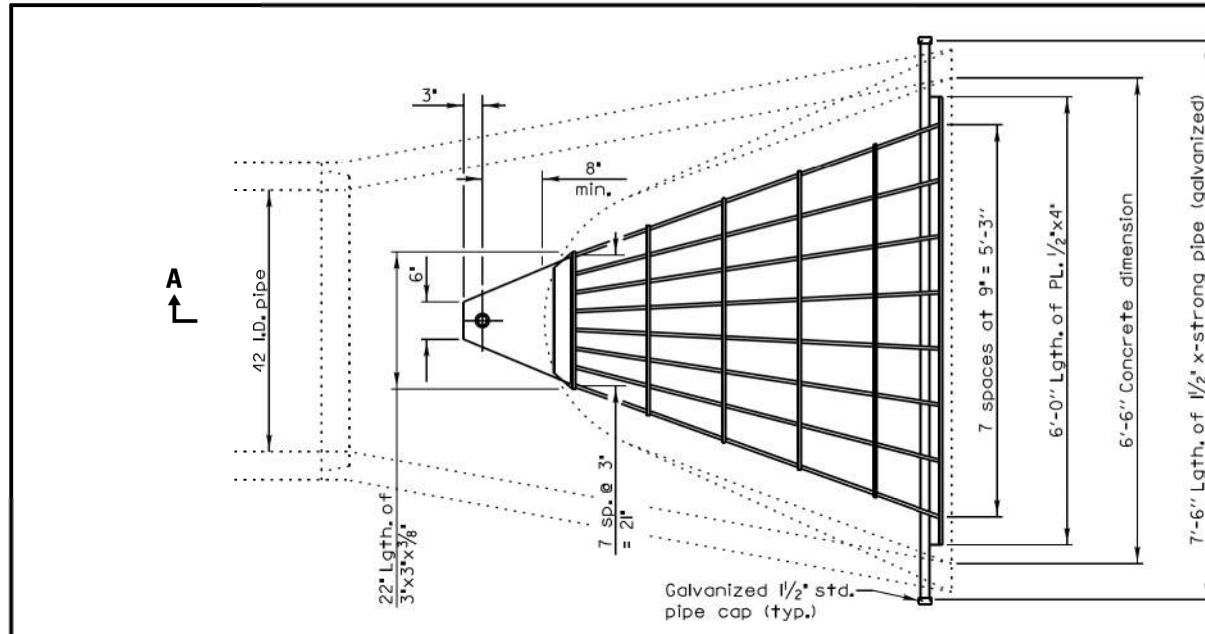
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	DRAWN - DNP	REVISED -
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PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

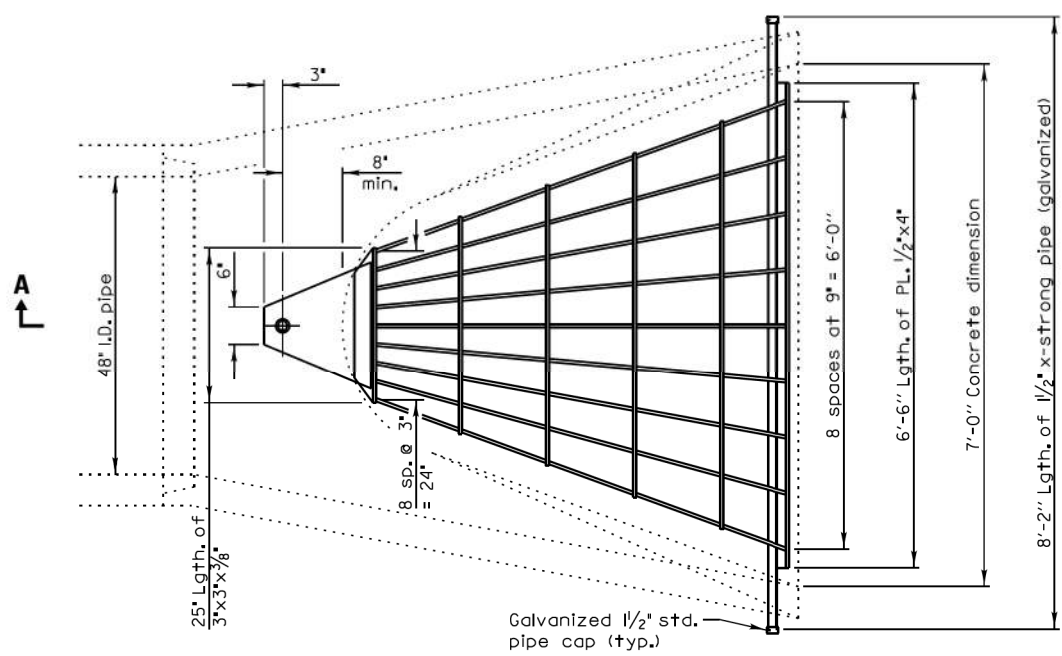
LCDOT STANDARD DETAIL

SCALE: N/A SHEET 14 OF 33 SHEETS

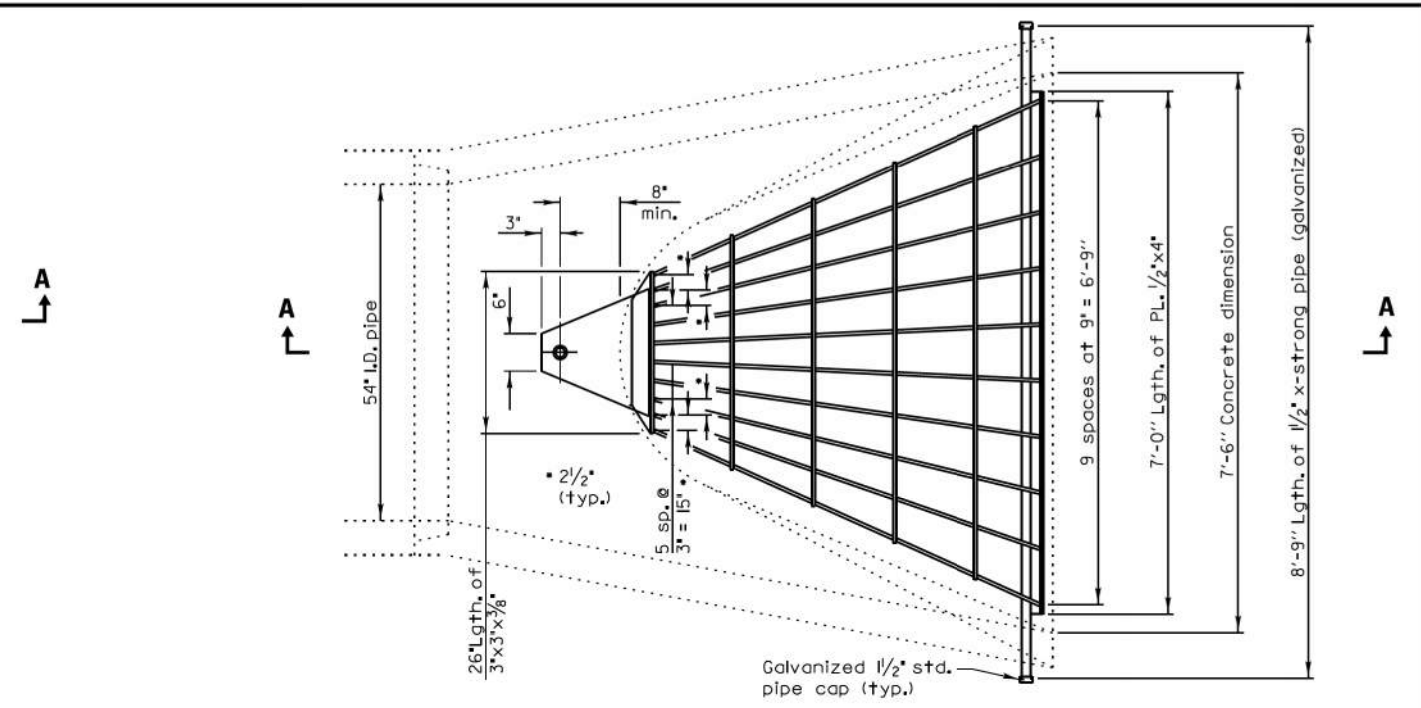
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	160
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



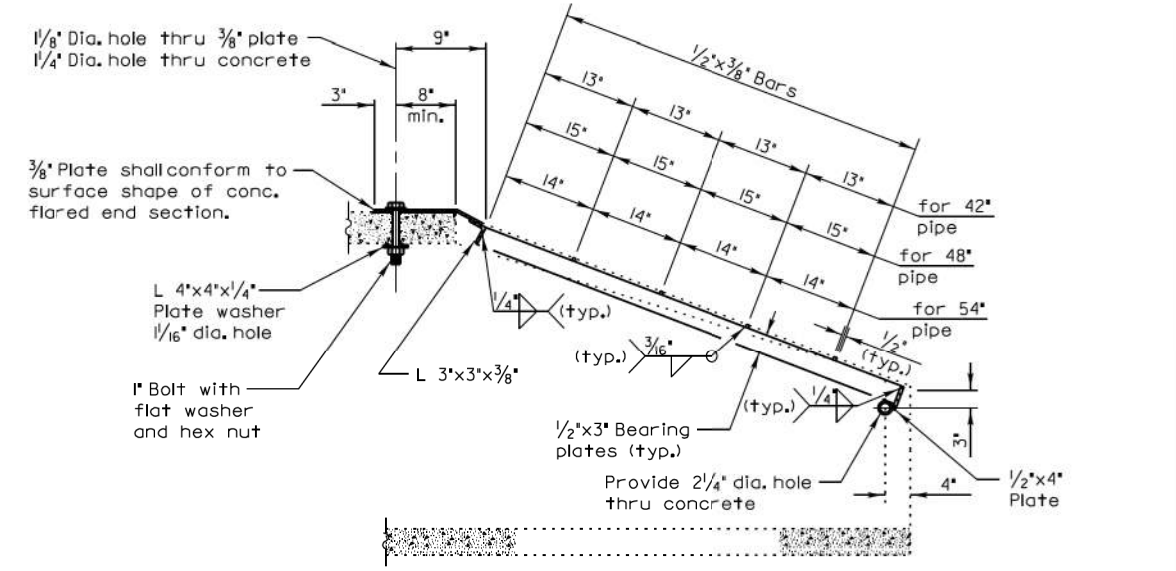
PLAN
Quantity of steel= 320 lbs.



PLAN
Quantity of steel= 400 lbs.



PLAN
Quantity of steel= 425 lbs.



SECTION A-A

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR

FILE NAME: U:\Design\Nauman\Lake\Standard Details\LC5403 Grating for Conc Flared End Section 24-54 in pipe.dgn



PROJECT NAME

LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-00XXX-XX-XX	X	X

APPROVED BY: M. G. ZEMAITIS
DATE: DEC. 18, 2014

GRATING FOR CONCRETE FLARED END SECTIONS (24"-54")

SHEET 2 OF 2

LC5403

MODEL: Default
FILE: Nauman\Lake\Standard Details\LC5403 Grating for Conc Flared End Section 24-54 in pipe.dgn



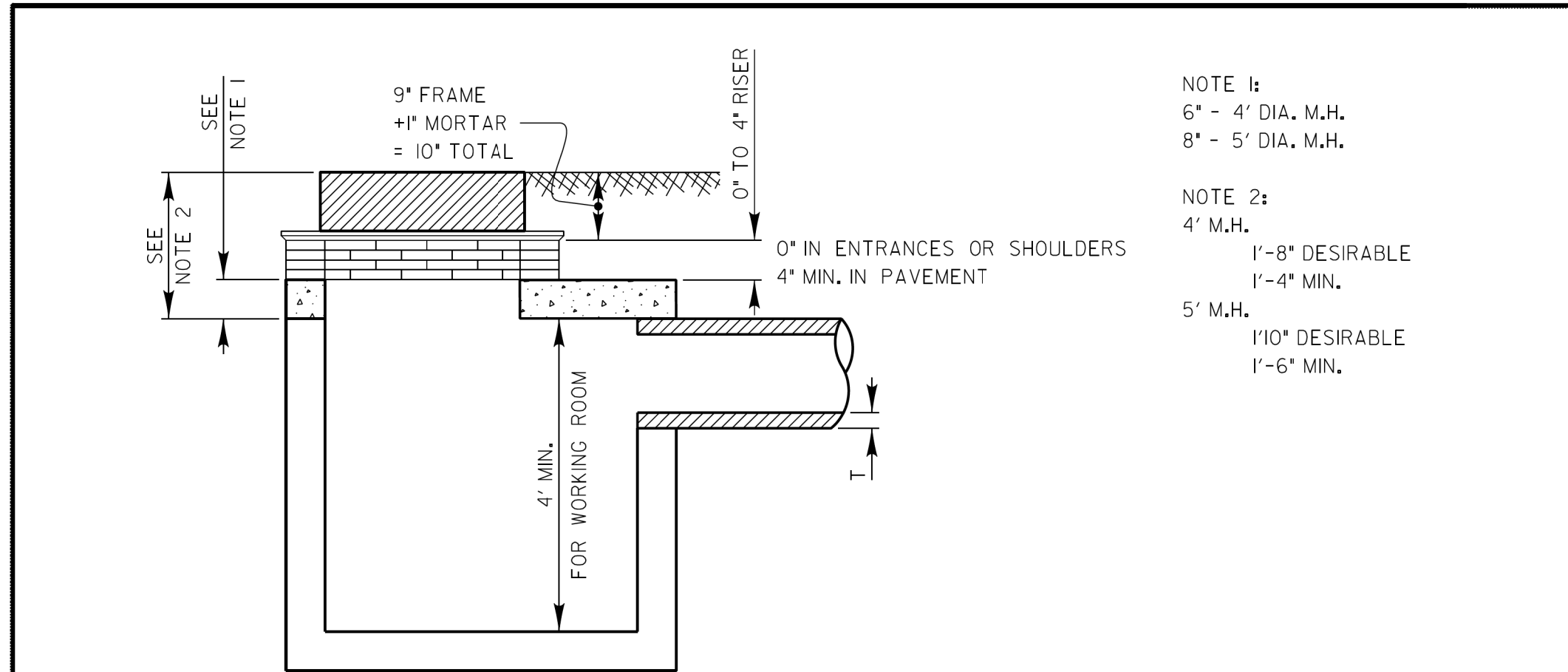
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 15 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	161
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



NOTE 1:
 6" - 4' DIA. M.H.
 8" - 5' DIA. M.H.

NOTE 2:
 4' M.H.
 1'-8" DESIRABLE
 1'-4" MIN.
 5' M.H.
 1'10" DESIRABLE
 1'-6" MIN.

PIPE DIA.	T	MINIMUM DEPTH			
		4' DIAMETER		5' DIAMETER	
		0" RISER	4" RISER	0" RISER	4" RISER
10"	2"	2.33'	2.67'	2.50'	2.83'
12"	2"	2.50'	2.83'	2.67'	3.00'
15"	2 1/4"	2.77'	3.10'	2.94'	3.27'
18"	2 1/2"	3.04'	3.38'	3.21'	3.54'
21"	2 3/4"	—	—	3.48'	3.81'
24"	3"	—	—	3.75'	4.08'
30"	3 1/2"	—	—	4.29'	4.63'
36"	4"	—	—	4.83'	5.17'
42"	4 1/2"	—	—	5.38'	5.71'

STRUCTURES REQUIRE SUMP FOR HEADROOM

SCALE: 1"=2'

REVISIONS	DATE

LakeCounty
 Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

RESTRICTED DEPTH MANHOLE

LC6000

MODEL: Default
 FILE: M:\GIS\Projects\Transportation\Projects\1122723\001 - Wadsworth Road Phase II\CAD_CPI\CAD_Sheets\CPI_rft-dec-10.dgn



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PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

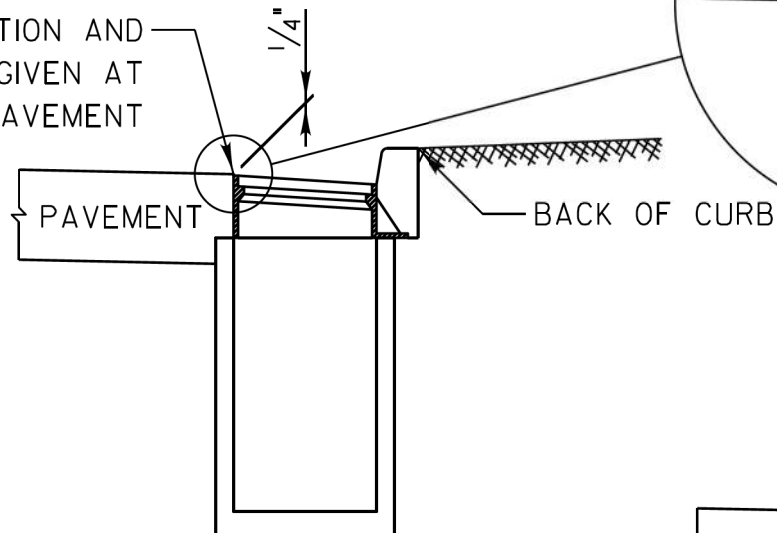
LCDOT STANDARD DETAIL

SCALE: N/A SHEET 16 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	162
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

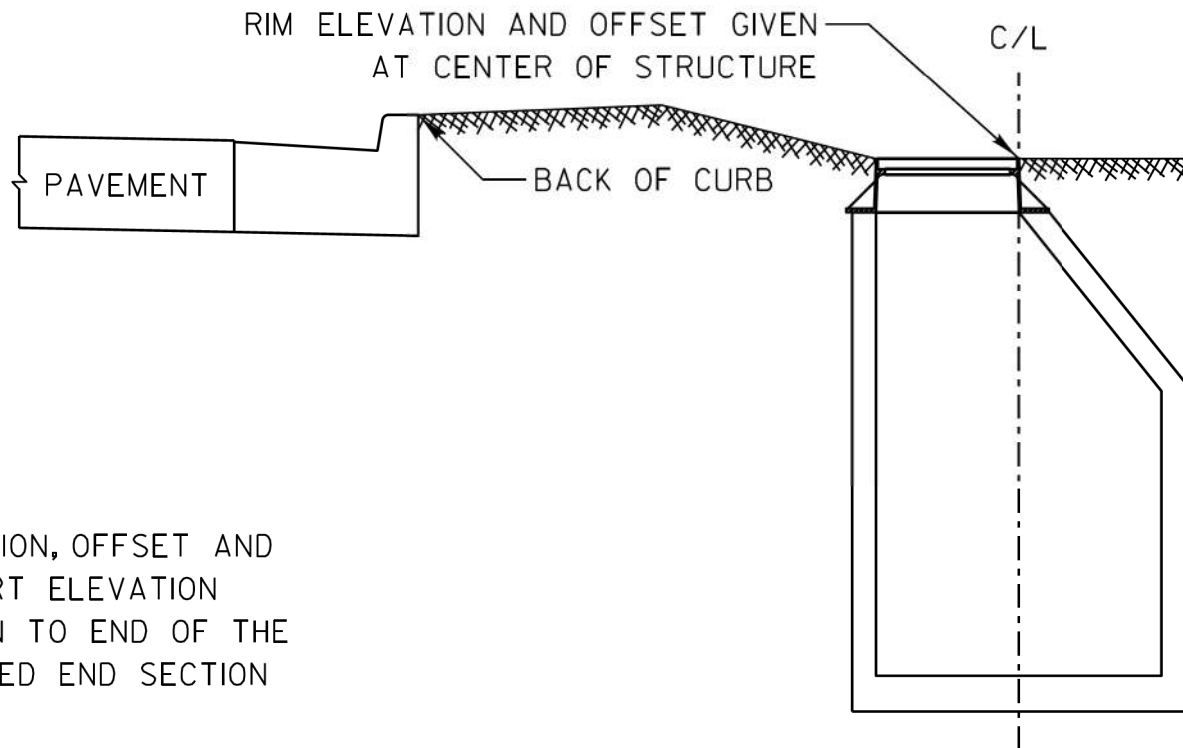
**DRAINAGE STRUCTURES
(EDGE OF PAVEMENT)**

RIM ELEVATION AND
OFFSET GIVEN AT
EDGE OF PAVEMENT

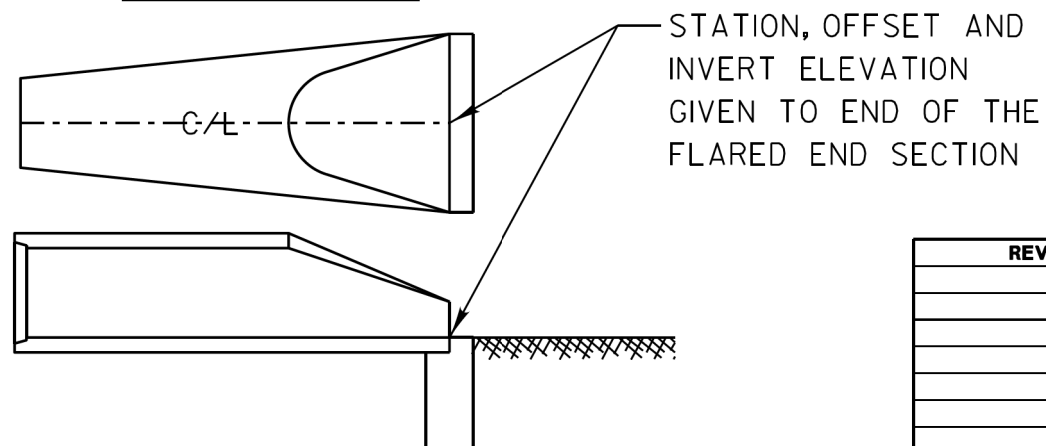


**DRAINAGE STRUCTURES
(OUTSIDE EDGE OF PAVEMENT)**

RIM ELEVATION AND OFFSET GIVEN
AT CENTER OF STRUCTURE



END SECTION



REVISIONS	DATE

LakeCounty
Division of Transportation

APPROVED BY: MGZ
DATE: 03/09/2012

**DRAINAGE STRUCTURE
RIM ELEVATIONS AND
OFFSETS**

LC6003

MODEL: Default
FILE: h:\mde\p\13\132723\001 - Wadsworth Road Phase II\CAD_CPI\CAD_Sheets\CDOT STD\CP1-rt-dec-11.dwg



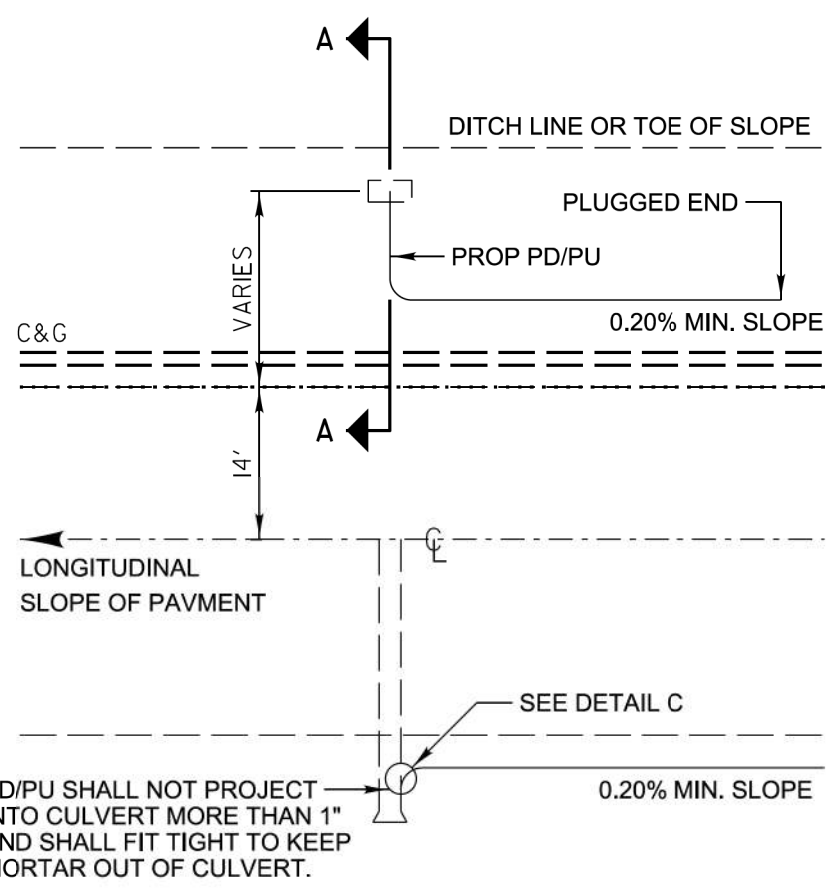
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 17 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	163
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



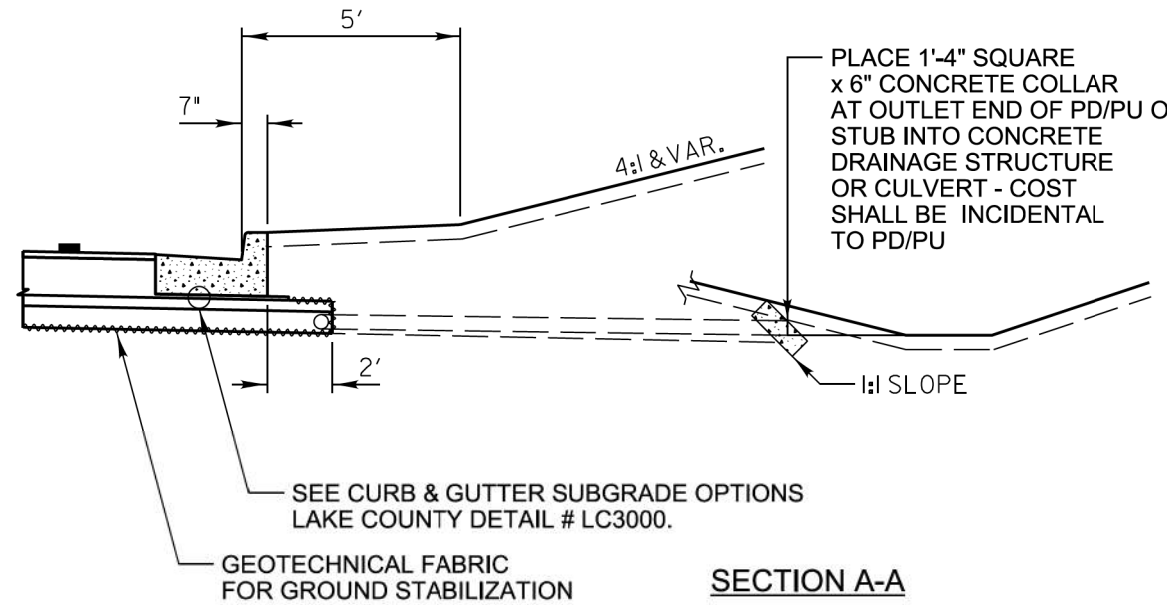
TYPICAL PIPE DRAIN/ PIPE UNDERDRAIN OUTLET

DESIGN NOTES:

All work shall be according to the applicable portions of the "Standard Specifications" except as modified hereon.

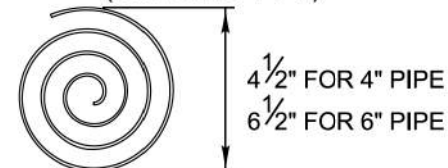
In addition to the requirements of Article 601.08 of the "Standard Specifications", the contract unit price per foot for pipe drains 4" & 6" and pipe underdrains 4" shall include the cost of furnishing and placing the rodent shield.

The removable rodent shield shall be furnished and installed in accordance with one of the configurations shown. The shield shall be fabricated from steel wire, or expanded metal, as detailed above and shall be galvanized after fabrication in accordance with AASHTO M-111. Other submitted designs for a removable rodent shield will be allowed with the approval of the Engineer.

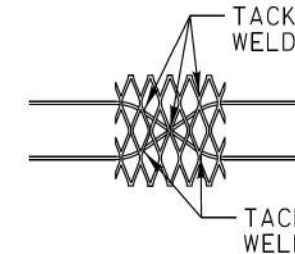


SECTION A-A

(2 LF FOR 4" PIPE)
(3 LF FOR 6" PIPE)



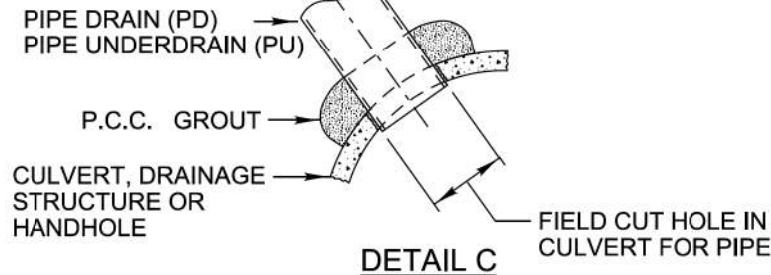
$\frac{3}{16}$ " WIRE STOCK BENT TO A SPIRAL CONFIGURATION. TO INSTALL, TWIST INTO PD/PU END. (FOR CORRUGATED CIRCULAR METAL PIPE)



6"x6" EXPANDED METAL SHIELD WITH TWO 2'-6" LONG PREFABRICATED 6 GAGE STEEL STRUTS FOR SNUG FIT INTO THE PD/PU END.

RODENT SHIELDS DETAIL

(ALTERNATES) NOT TO SCALE



DETAIL C

REVISIONS	DATE
Pipe Drain Added to Labels	5/19/2009
Revised Type A to Type B Aggregate	12/20/12
Removed HMA Shldr & Agg	11/20/13

 LakeCounty
 Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

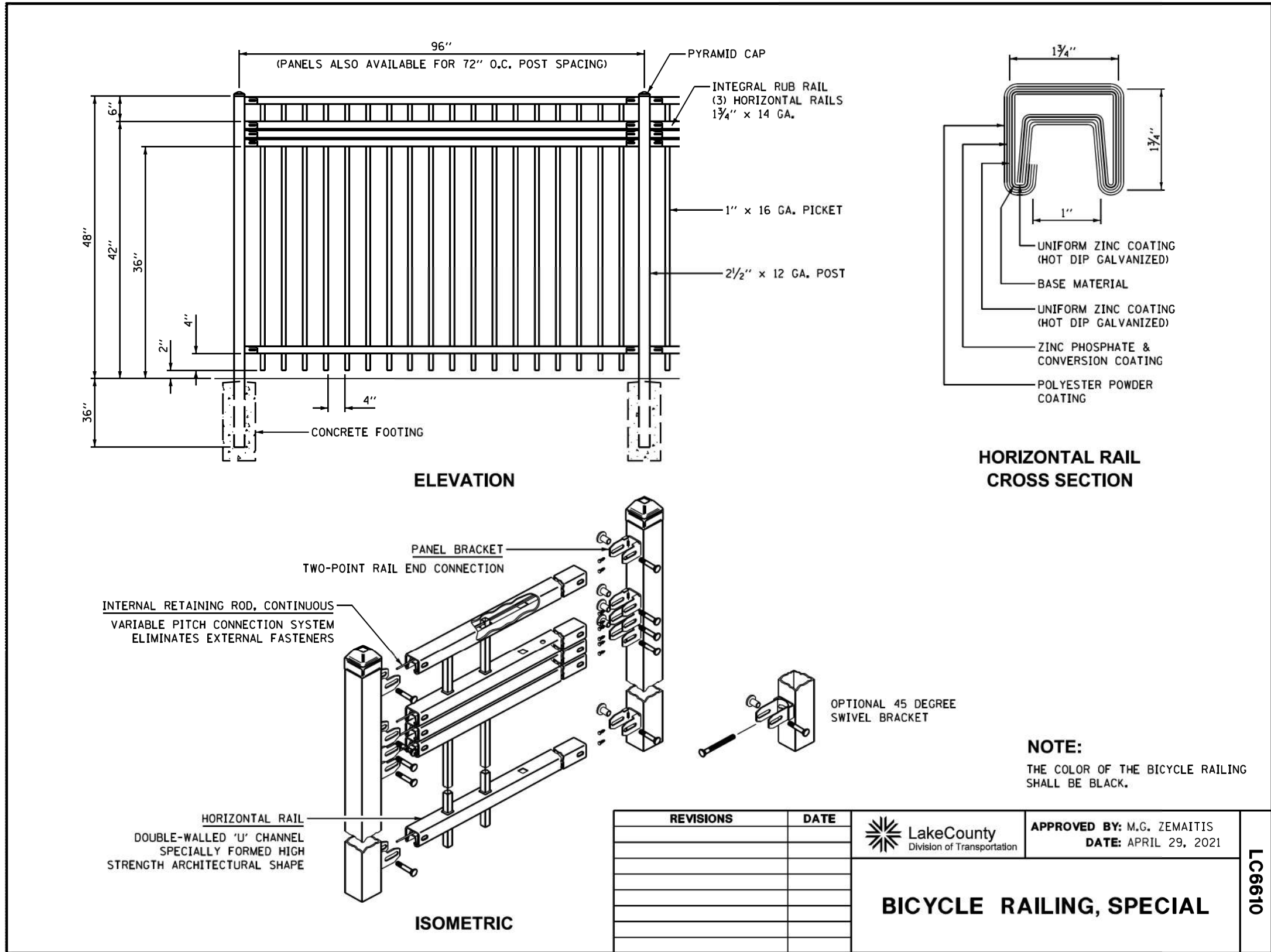
SUB-SURFACE DRAINS

LC6020

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PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISIONS -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	164
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

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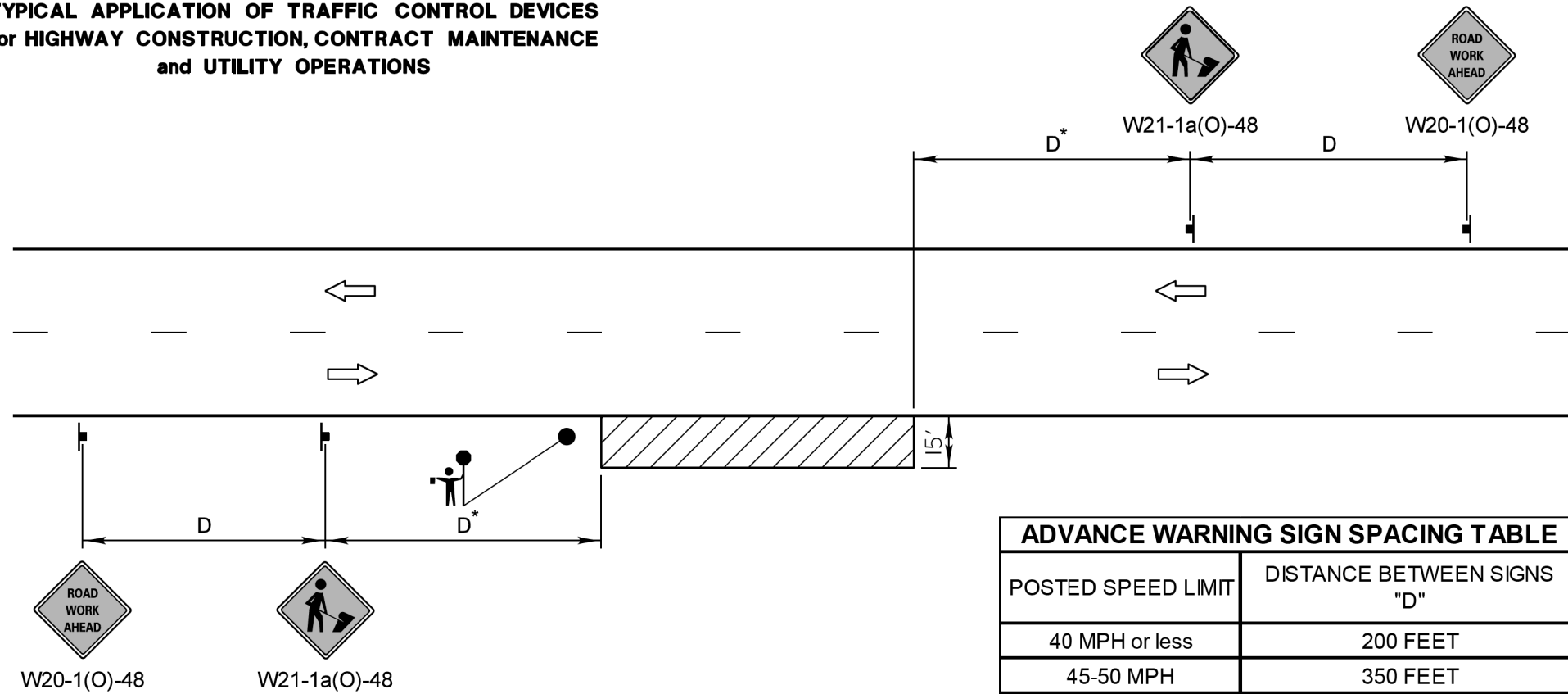
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 19 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	165
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
and UTILITY OPERATIONS**



ADVANCE WARNING SIGN SPACING TABLE	
POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

GENERAL NOTES:

This special detail is used at any time, any vehicle, equipment, workers or their activities require a stationary, intermittent or continuous moving operation within 15 feet of the traffic lane, where the average speed is 1 mph or less.

* Minimum distance "D" is shown in the Advance Warning Sign Spacing Table. If the work is a moving operation, the maximum distance "D" may be extended to ½ the length required for one normal working day's operation or 4 miles, whichever is less.

If the work operation does not exceed 60 minutes, traffic control may be according to I.D.O.T. Highway Standard 701301.

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN WHEN REQUIRED

MODIFIED IDOT STANDARD 701011-04

REVISIONS	DATE	LakeCounty Division of Transportation	APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007	LC7000
Title Block Revision	8/1/09			
Reformat LCDOT Standard	7/15/10			
Updated IDOT Standard Version #	3/29/16			

NOT TO SCALE

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	DATE - 09/28/2023	REVISIONS -

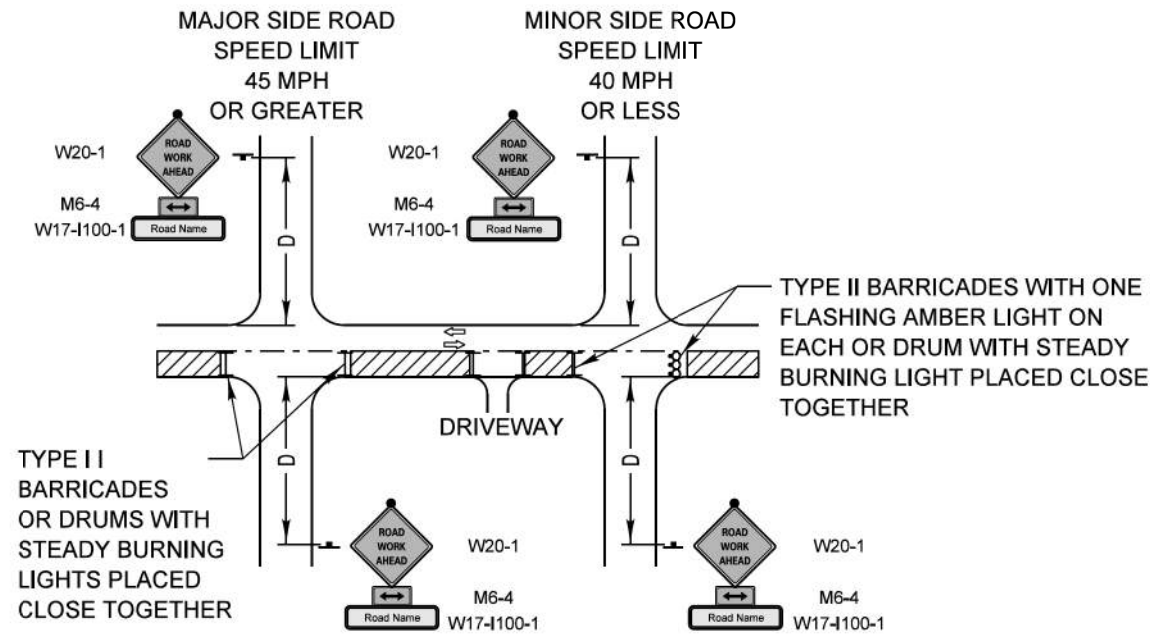
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 20 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	166
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
and UTILITY OPERATIONS**



TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHTS PLACED CLOSE TOGETHER

TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH OR DRUM WITH STEADY BURNING LIGHT PLACED CLOSE TOGETHER

SYMBOLS

	WORK AREA
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE II BARRICADE W/TYPE A FLASHING LIGHT
	DRUM WITH STEADY BURNING LIGHT

ADVANCE WARNING SIGN SPACING TABLE

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

GENERAL NOTE:

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement or where construction requires lane closures.

DESIGN NOTES:

- For a side road with a speed limit of 40 mph or less, the closed portion of the main route shall be protected by blocking with Type II barricades or drums, 1/3 of the cross section of the closed portion of the roadway.
- For a side road with a speed limit of 45 mph or greater, the closed portion of the main route shall be protected by blocking with Type II barricades or drums, 1/2 of the cross section of the closed portion of the roadway.
- All W20-1 "ROAD WORK AHEAD" signs shall be 48"x48" with fluorescent orange reflective sheeting with an amber Type A flashing light mounted on the sign.
- When the side road lies between the beginning of the mainline signing and the work zone, a M6-1 Single Headed Arrow shall be used in lieu of the M6-4 Double Headed Arrow.
- For a lane closure on a side road, use the applicable portions of the appropriate Highway Standard or Traffic Control Detail. The spacing of the signs and barricades or drums 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 closure.
- Advance warning signs shall be omitted on driveways unless otherwise noted.
- The traffic control and protection for side roads and intersections shall be included in the contract lump sum price for "TRAFFIC CONTROL AND PROTECTION, SPECIAL."

NOT TO SCALE

**MODIFIED IDOT DISTRICT ONE
SIDE ROAD DETAIL**

REVISIONS	DATE		APPROVED BY: ANTHONY KHAWAJA	LC7004
Title Block Revision	8/1/09		DATE: APRIL 1, 2007	
Reformat LCDOT Standard	7/15/10	TRAFFIC CONTROL and PROTECTION for SIDEROADS, INTERSECTIONS and DRIVEWAYS		
Use of Drums in lieu Type III Barricade	4/22/14			

MODEL: Default
 FILE: Modifc...
 PROJECT: ...
 USER: ...
 DATE: 10/30/2023



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PLOT SCALE = 40.0000 ' / in.	DRAWN - DNP	REVISED -
PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

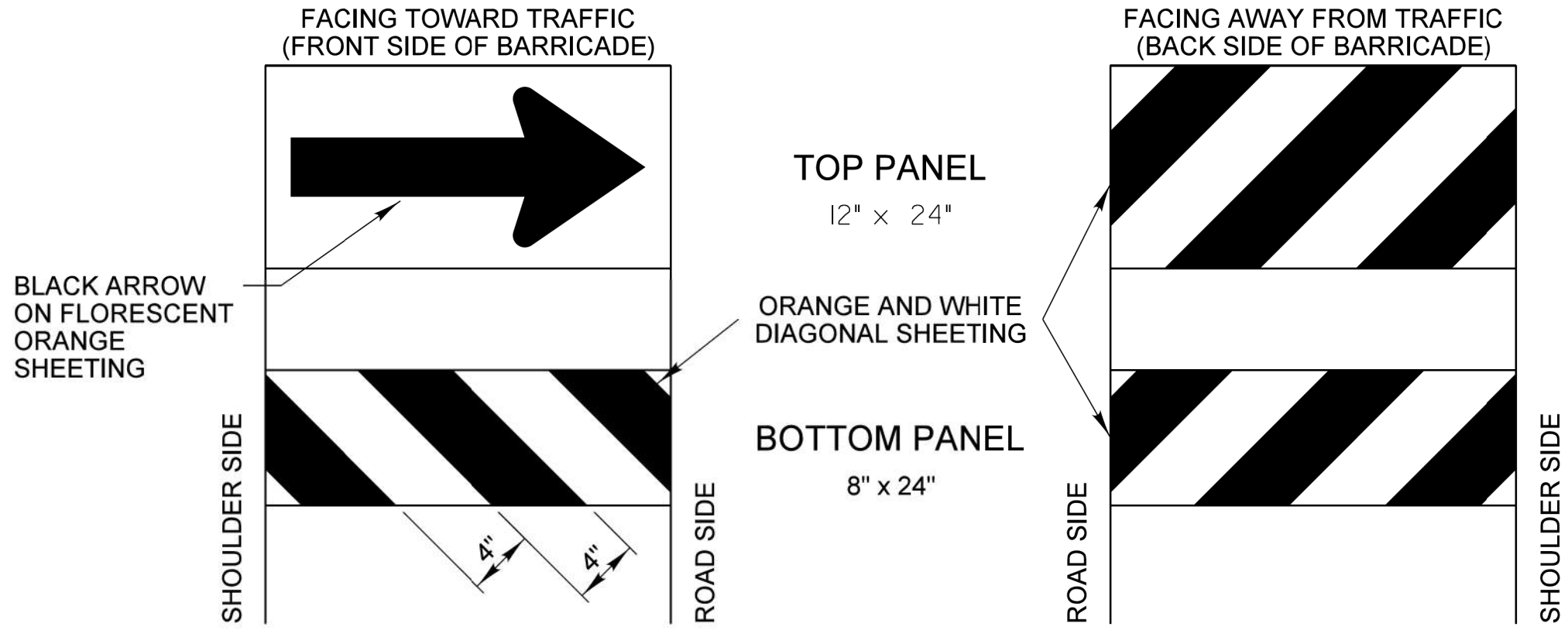
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 21 OF 33 SHEETS

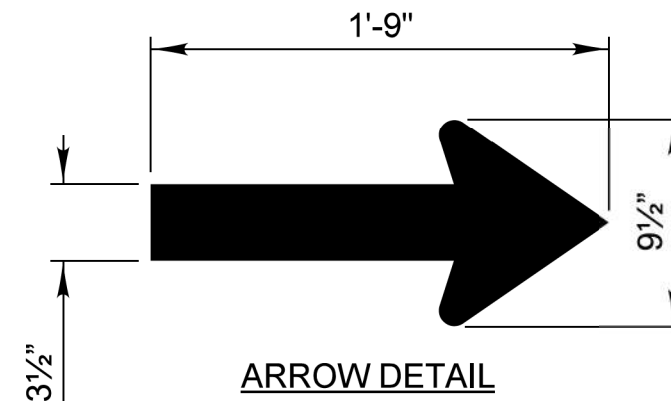
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	167
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

DIRECTION INDICATOR BARRICADES



GENERAL NOTES

- 1) Direction Indicator Barricades shall be constructed from non-metallic Type II barricades meeting the requirements of Article 1106.02 of the Standard Specifications, except where modified by this detail.
- 2) The Direction Indicator Barricades shall be equipped with Type C steady burning lights if used to channelize traffic during the hours of darkness.
- 3) The reflective sheeting for the top panel shall be Type AZ fluorescent orange. The diagonal panels shall have orange and white Type A or better reflective sheeting.



REVISIONS	DATE	Lake County Division of Transportation	APPROVED BY: ANTHONY KHAWAJA DATE: APRIL 1, 2007
Text Update	7/15/11		
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE			LC7200
DIRECTION INDICATOR BARRICADES			

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PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

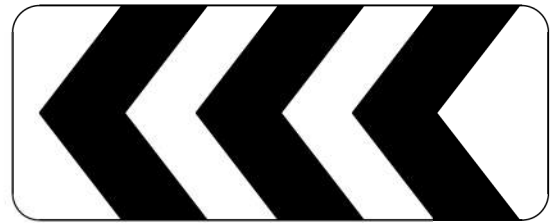
LCDOT STANDARD DETAIL

SCALE: N/A SHEET 22 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	168
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

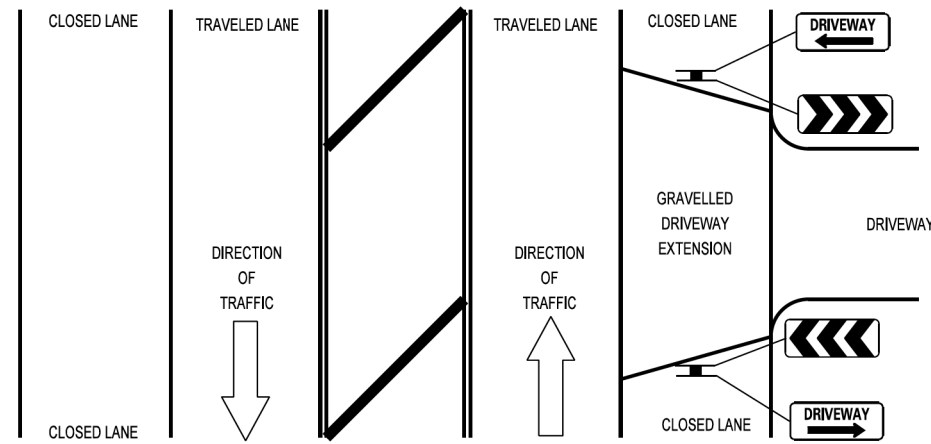


30" X 12" WHITE ON GREEN REFLECTIVE BACKGROUND, 1/2" BORDER, LETTER SIZE 4C



30" X 12" BLACK ON FLOURESCENT ORANGE CHEVRONS

EXAMPLE OF DRIVEWAY SIGN ASSEMBLY INSTALLATION



TEMPORARY CONSTRUCTION INFORMATION SIGNING NOTES:

1. The driveway and chevron signs shall be mounted back to back on the near side of the roadway where the entrance is located. There will be two sign assemblies per driveway.
2. Temporary construction information signs shall be post mounted 7' above the near edge of pavement and shall be a minimum of 6' beyond the edge of the nearest traveled lane, or as directed by the Engineer.
3. The retroreflective sign face shall be a minimum of Type "A" material.
4. The temporary construction information signs shall be removed or relocated when the Engineer determines the signs to be no longer necessary.
5. Existing traffic control signs and messages that are in conflict with the proposed maintenance of traffic shall be covered or modified with a temporary overlay as shown in the plans and/or as directed by the Engineer.
6. Install additional temporary sign panel assemblies as shown in the plans and/or directed by the Engineer.

REVISIONS	DATE	Lake County Division of Transportation	APPROVED BY: A KHAWAJA DATE: APRIL 1, 2007	LC7201
Revised Signs & Text	1/1/09			
Text Update	7/15/11			

MODEL: Default
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	DRAWN - DNP	REVISED -
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PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 23 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	169
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



48" X 36"
 BLACK ON FLUORESCENT ORANGE
 REFLECTIVE BACKGROUND
 1" BORDER WITH 5/8" INSET
 LETTER SIZE 6D
 *LETTER SIZE 6E BOLD

REVISIONS	DATE		APPROVED BY: A KHAWAJA
Revised Signs & Text	1/1/09		Division of Transportation
Text Update	7/15/11		
TEMPORARY CONSTRUCTION INFORMATION SIGNS			LC7201
SHEET 2 OF 2			

MODEL: Default
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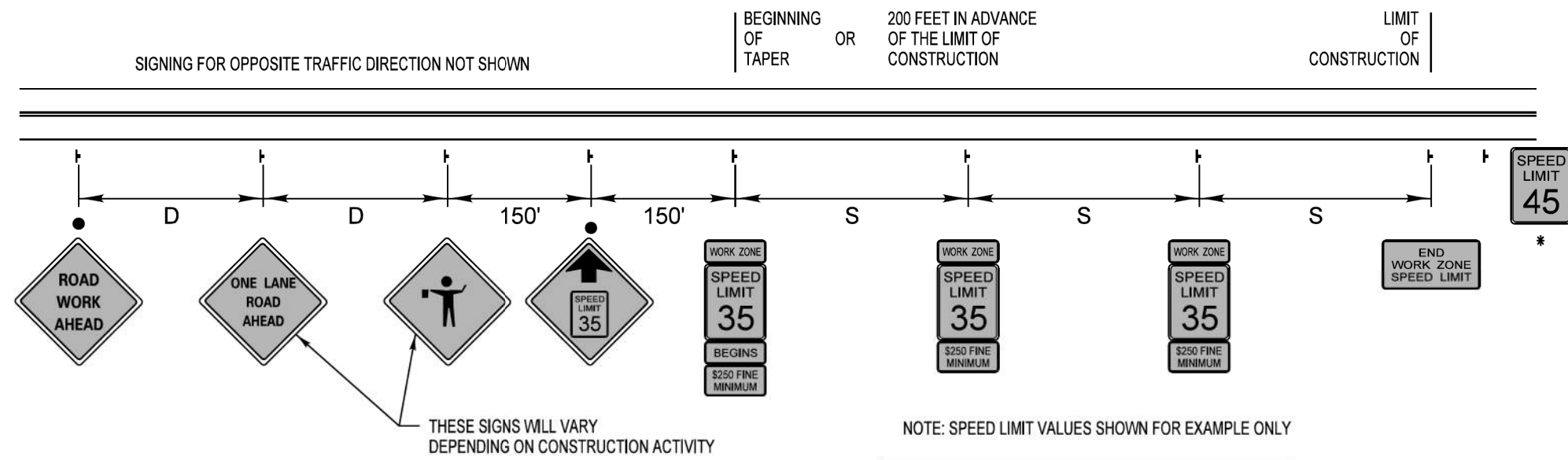
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PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 24 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	170
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



NOTE: SPEED LIMIT VALUES SHOWN FOR EXAMPLE ONLY

NOTES:

- * = EXISTING SPEED LIMIT BEFORE CONSTRUCTION.
- THE SIGN SPACING BETWEEN WORK ZONE SPEED LIMIT SIGNS SHALL BE THE SAME AS COMPARABLE REGULAR SPEED LIMIT SIGNING AS STATED IN THE L.C.D.O.T. POLICY FOR THE ESTABLISHMENT AND POSTING OF SPEED LIMITS ON COUNTY AND TOWNSHIP HIGHWAYS WITHIN LAKE COUNTY, ILLINOIS. A MINIMUM OF 2 WORK ZONE SPEED LIMIT SIGNS SHALL BE REQUIRED PER DIRECTION OF TRAFFIC.
- EXISTING SPEED LIMIT SIGNS AND POST SHALL BE REMOVED AND RETURNED TO THE L.C.D.O.T.'S SIGN SHOP WITHIN 24 HOURS OF REMOVAL.
- ON MULTILANE HIGHWAYS, WORK ZONE SPEED LIMIT AND ADVANCE CONSTRUCTION SIGNING SHALL BE ON THE RIGHT SIDE RIGHT-OF-WAY AND THE LEFT MEDIAN, WHEN THE MEDIAN IS NOT PAVED AND THE WIDTH IS 10 FEET OR GREATER.
- ALL SIGNS SHALL BE PERMANENTLY POST MOUNTED IF THE SIGNS WILL BE DISPLAYED FOR MORE THAN 48 HOURS.

ADVANCE WARNING SIGN SPACING TABLE	
ROAD TYPE (EXISTING SPEED LIMIT)	DISTANCE BETWEEN SIGNS "D"
URBAN-LOW SPEED (40 MPH or less)	200 FEET
URBAN-HIGH SPEED (45-50 MPH)	350 FEET
RURAL (55 MPH or greater)	500 FEET

WORK ZONE SPEED LIMIT SIGN SPACING	
WORK ZONE SPEED LIMIT	DISTANCE BETWEEN SIGNS "S"
35 TO 40 MPH	990 FEET to 1,980 FEET
45 TO 50 MPH	1,320 FEET to 2,640 FEET

REVISIONS	DATE	LakeCounty Division of Transportation	APPROVED BY: A. KHAWAJA DATE: 4/14/09	LC7203
Reformat LCDOT Standard	7/15/10			
Revised Labels	6/26/12			
\$250 Minimum Fine	5/9/19			

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PLOT SCALE = 40.0000 ' / in.	DRAWN - DNP	REVISIONS -
PLOT DATE = 10/30/2023	CHECKED - MCW	REVISIONS -
	DATE - 09/28/2023	REVISIONS -

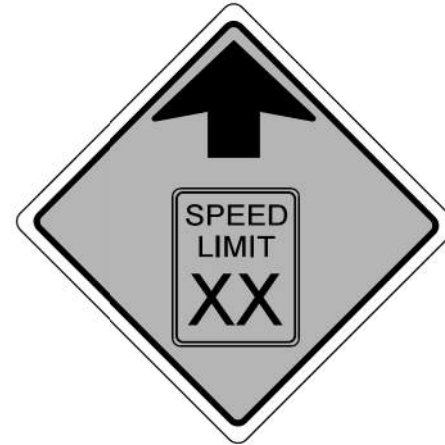
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

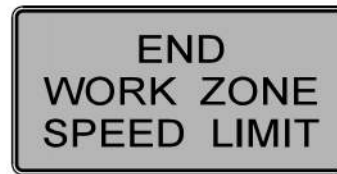
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	171
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

WORK ZONE SPEED LIMIT SIGNS



W3-5 (O) - 48



G20-I 102, 24"X48"



W2-I 115 (O)
3015



R2-1 3036



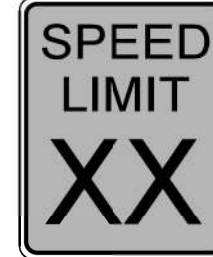
W2-I 113 (O)
3011



R2-I 106
3015



W2-I 115 (O)
3015



R2-1 3036



R2-I 106
3015

R2-1 SPECIAL

REVISIONS	DATE
Reformat LCDOT Standard	7/15/10
Revised Labels	6/26/12
\$250 Minimum Fine	5/9/19



APPROVED BY: A.KHAWAJA
DATE: 4/14/09

WORK ZONE SPEED LIMIT SIGNING DIAGRAM

(SHEET 2 OF 2)

LC7203

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PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
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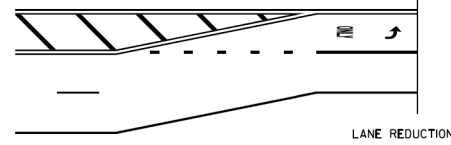
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

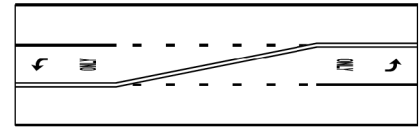
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61K05	

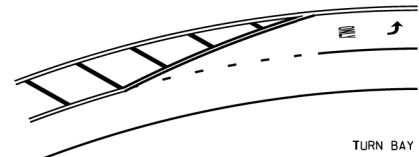
TYPICAL MINI-SKIP PAVEMENT MARKINGS



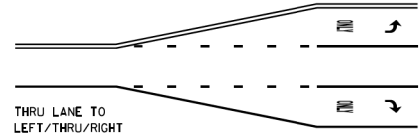
LANE REDUCTION



DOUBLE TAPER



TURN BAY ON CURVE

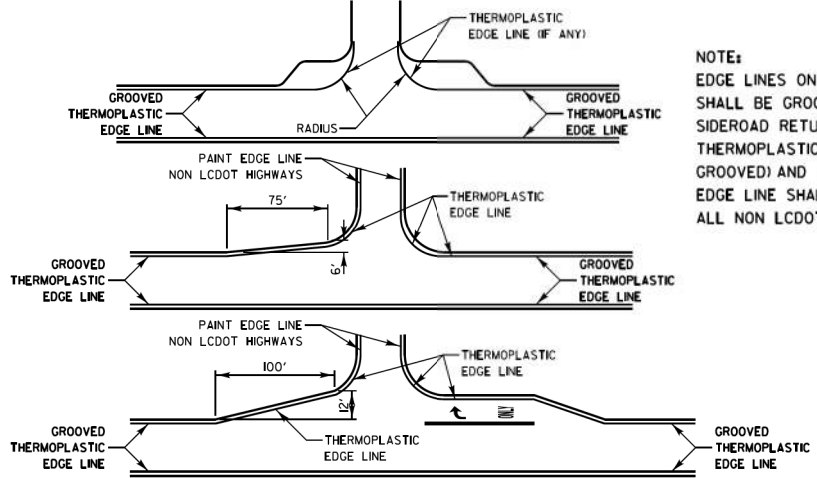


THRU LANE TO LEFT/THRU/RIGHT

MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE. IT EXTENDS.

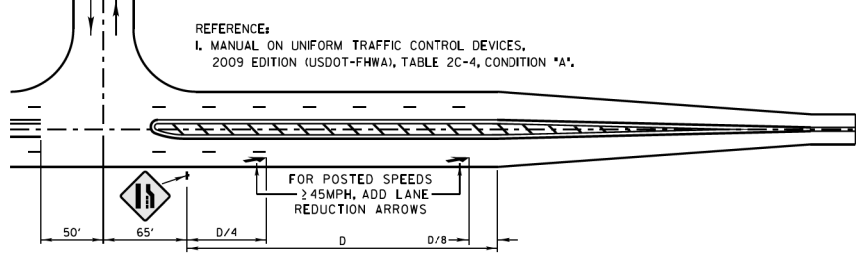
TYPICAL PAVEMENT MARKINGS

EDGE LINE RADII AT SIDE STREETS



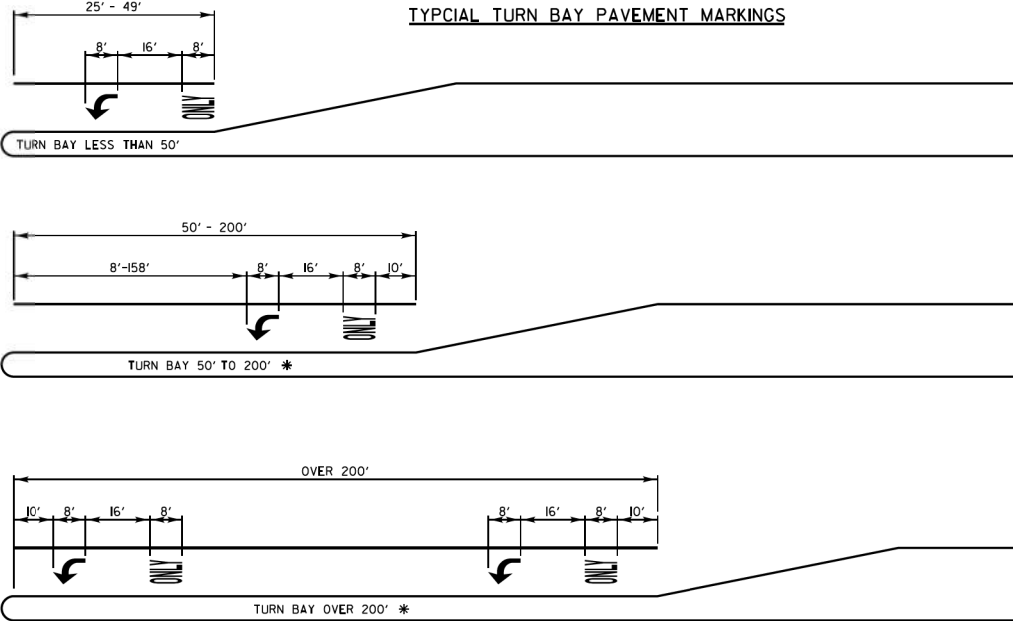
NOTE: EDGE LINES ON LCDOT HIGHWAYS SHALL BE GROOVED THERMOPLASTIC. SIDEROAD RETURNS SHALL BE A THERMOPLASTIC EDGE LINE (NOT GROOVED) AND THE SIDEROAD EDGE LINE SHALL BE PAINT ON ALL NON LCDOT HIGHWAYS.

LANE REDUCTION ARROW PLACEMENT



DESIGN SPEED MPH	D (FEET)
<45	VARIES
45	775' (1)
50	885' (1)
55	990' (1)

TYPICAL TURN BAY PAVEMENT MARKINGS



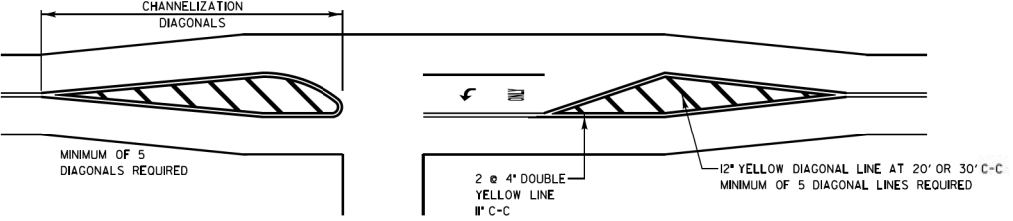
* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

ONLY AREA = 20.8 SQ. FT.

FULL SIZE LETTERS (8") AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ "ONLY".

TWO LANE ROAD



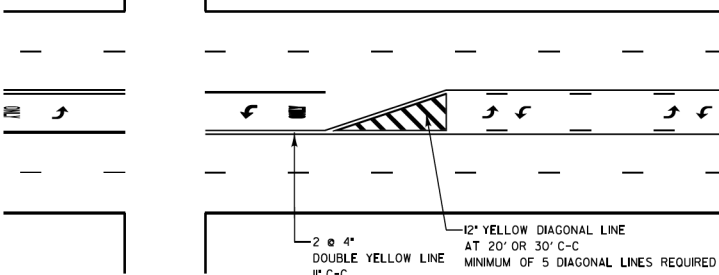
MINIMUM OF 5 DIAGONALS REQUIRED

2 @ 4" DOUBLE YELLOW LINE 1" C-C
12" YELLOW DIAGONAL LINE AT 20' OR 30' C-C
MINIMUM OF 5 DIAGONAL LINES REQUIRED

TYPICAL DIAGONAL SPACING

SPEED LIMIT RANGE	DIAGONAL SPACING	
	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

TWO-WAY LEFT TO LEFT TURN BAY



2 @ 4" DOUBLE YELLOW LINE 1" C-C
12" YELLOW DIAGONAL LINE AT 20' OR 30' C-C
MINIMUM OF 5 DIAGONAL LINES REQUIRED

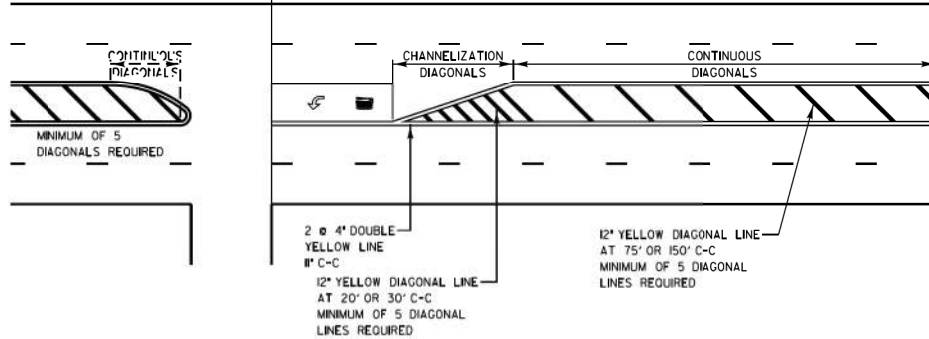
DUAL LEFT TURN ARROWS



31.2 SQ. FT. MINIMUM OF 2 SETS REQUIRED

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

3 OR 5 LANE ROAD



2 @ 4" DOUBLE YELLOW LINE 1" C-C
12" YELLOW DIAGONAL LINE AT 20' OR 30' C-C
MINIMUM OF 5 DIAGONAL LINES REQUIRED

12" YELLOW DIAGONAL LINE AT 75' OR 150' C-C
MINIMUM OF 5 DIAGONAL LINES REQUIRED

REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
ADDED LANE REDUCTION ARROWS	07/1/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14
THERMO EDGELINES at RETURNS	11/18/16
ALL PM TO GROOVED THERMO	1/26/17
REVISED EDGELINES at RETURNS	4/10/17
REVISED STOP BAR/DBL YELLOW	8/31/17



APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

SHEET 1 OF 2

LC7800

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR

FILE NAME: C:\Users\hdmrc\Desktop\LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS.dgn



PROJECT NAME
LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-XXXX-XX-XX	XXX	XXX



USER NAME = PatelDe	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - DNP	REVISED -
PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 27 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	173

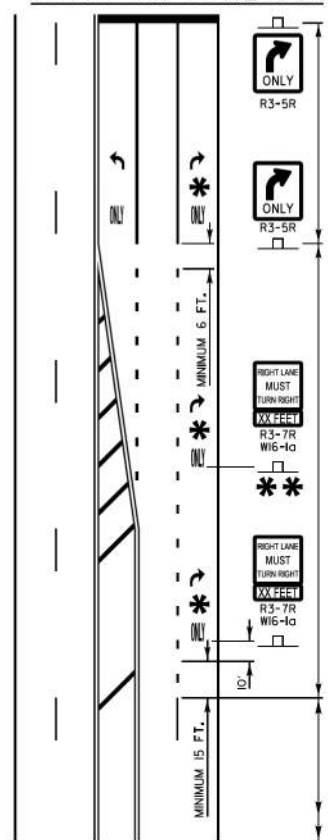
CONTRACT NO. 61K05

ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: C:\Users\hdmrc\Desktop\LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS.dgn

TYPICAL PAVEMENT MARKINGS AND RECESSED PAVEMENT MARKERS

THRU LANE TO TURN LANE CONVERSION



TURN LANE
6" WHITE LINE
(ADDITIONAL PAVEMENT MARKINGS AS SHOWN
ON SHEET ONE OF THE L.C.D.O.T. TYPICAL
PAVEMENT MARKINGS DETAIL SHEETS)

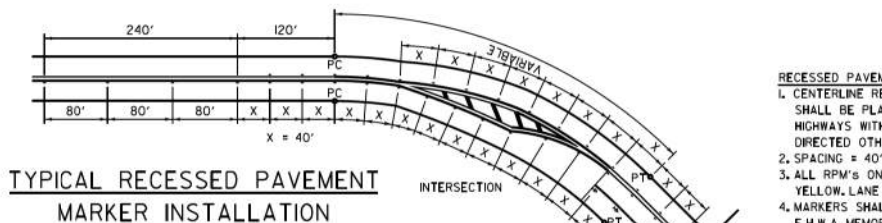
MINIMUM TRANSITION ZONE LENGTH

POSTED SPEED	LENGTH
25 M.P.H.	255 FT
30 M.P.H.	330 FT
35 M.P.H.	405 FT
40 M.P.H.	480 FT
45 M.P.H.	555 FT
50 M.P.H.	630 FT
55 M.P.H.	705 FT

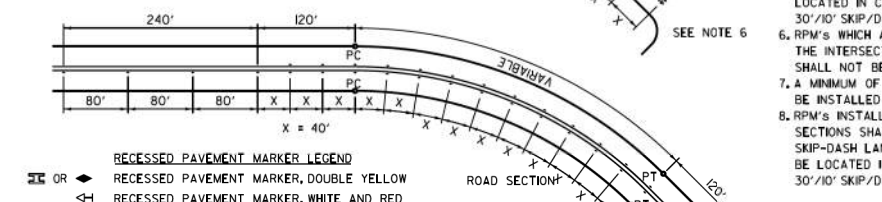
* LOCATION OF PAV'T MARKINGS (MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT, 260 FT
30 M.P.H.	10 FT, 170 FT, 340 FT
35 M.P.H.	10 FT, 210 FT, 410 FT
40 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT
45 M.P.H.	10 FT, 190 FT, 370 FT, 560 FT
50 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT, 640 FT
55 M.P.H.	10 FT, 180 FT, 350 FT, 520 FT, 710 FT

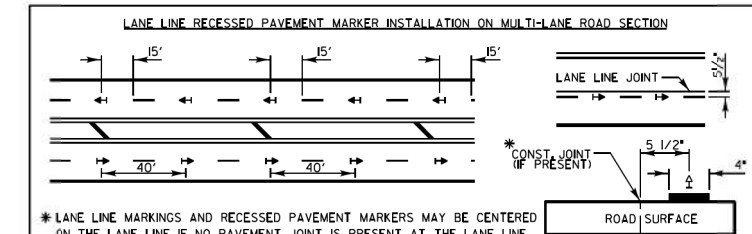
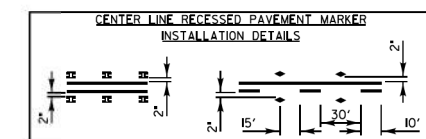
** FOR POSTED SPEEDS 40 M.P.H. OR GREATER
A SECOND R3-7/W16-1a SIGN INSTALLATION
SHALL BE LOCATED HALFWAY BETWEEN THE
BEGINNING OF THE TRANSITION ZONE AND THE
BEGINNING OF THE TURN LANE



TYPICAL RECESSED PAVEMENT MARKER INSTALLATION



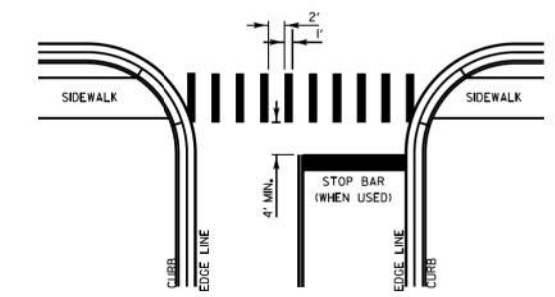
RECESSED PAVEMENT MARKER LEGEND
 ◻ OR ◊ RECESSED PAVEMENT MARKER, DOUBLE YELLOW
 ◁ RECESSED PAVEMENT MARKER, WHITE AND RED



* LANE LINE MARKINGS AND RECESSED PAVEMENT MARKERS MAY BE CENTERED ON THE LANE LINE IF NO PAVEMENT JOINT IS PRESENT AT THE LANE LINE.

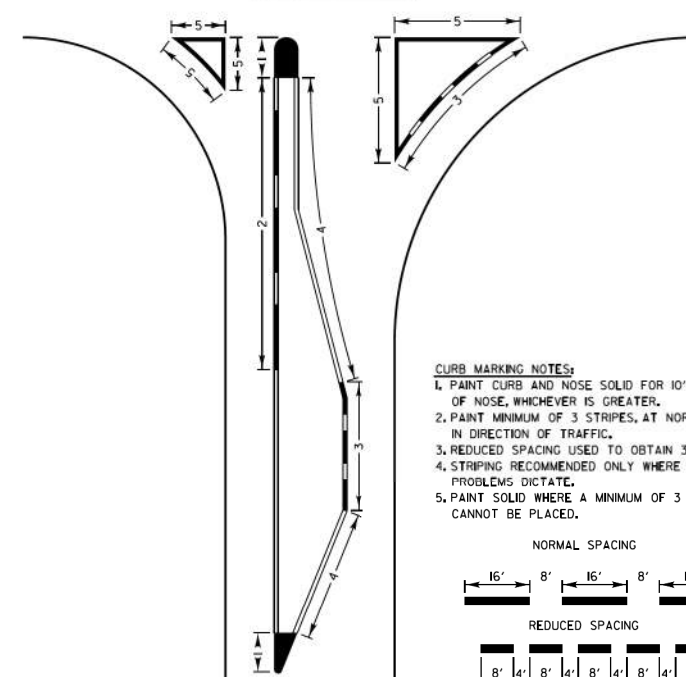
- RECESSED PAVEMENT MARKER NOTES:
- CENTERLINE RECESSED PAVEMENT MARKERS (RPM'S) SHALL BE PLACED ON ALL TWO AND THREE LANE HIGHWAYS WITH CURVES OVER 3 1/2 DEGREES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - SPACING = 40' FOR CENTERLINE MARKERS.
 - ALL RPM'S ON CENTERLINE ARE 2-WAY YELLOW, LANE LINE MARKERS ARE WHITE/RED.
 - MARKERS SHALL BE INSTALLED ACCORDING TO F.H.W.A. MEMORANDUM H10-2L.
 - MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
 - RPM'S WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
 - A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
 - RPM'S INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY, THESE RPM'S SHALL BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH LANE LINE.

CROSSWALKS



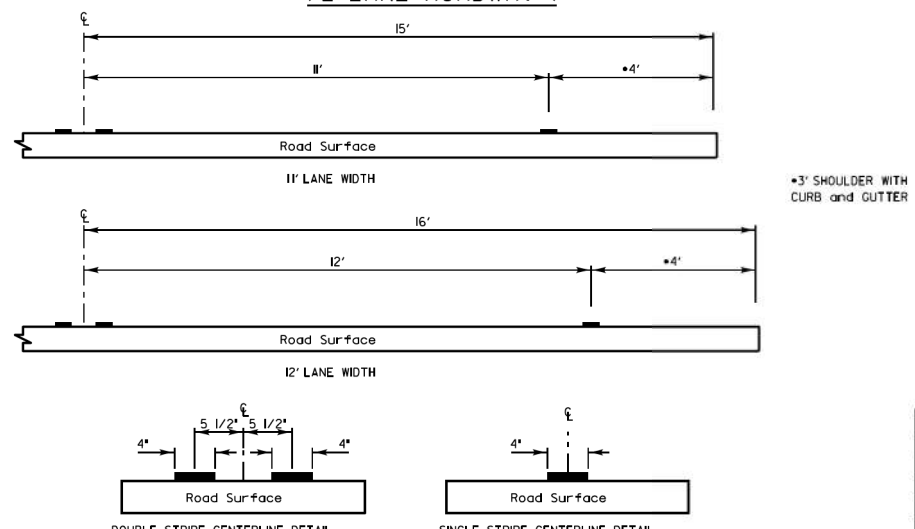
CROSSWALK NOTES:
 1. THE WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND MULTIPATH CROSSINGS, WHICH CAN BE 8' OR 10' WIDE.
 2. THE STOP BAR SHALL BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING



CURB MARKING NOTES:
 1. PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
 2. PAINT MINIMUM OF 3 STRIPES, AT NORMAL SPACING, IN DIRECTION OF TRAFFIC.
 3. REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
 4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
 5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



DOUBLE STRIPE CENTERLINE DETAIL SINGLE STRIPE CENTERLINE DETAIL

NOTE: CENTERLINE MARKINGS ARE 4" LINES AT 11" CENTERS.

PAVEMENT MARKING GUIDELINES				
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	2 @ 4 IN.	SOLID	YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE 11 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED LANE LINES	2 @ 4 IN.	SOLID	YELLOW	11 IN. C-C
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. STRAIGHT ARROW 11.5 SQ. FT. ONLY 20.8 SQ. FT. COMB. ARROW 26.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION 8 FT. LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDANS	2 @ 4 IN. & 11 IN. C-C 12 IN. DIAGONALS @ 45° NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW 2-WAY TRAFFIC WHITE 1-WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
CORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R/R, CROSSING	24 IN. TRANSVERSE LINES OR 12 IN. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE L.O.D.T. STD. 78000 50 FT. AREA OF "X" = 3.6 SQ. FT. / "X" "X" = 54.0 SQ. FT.
SHOULDER DIAGONALS (FOR PAVED SHOULDER 2 @ 6 FT.)	12 IN. @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

ALL PAVEMENT MARKINGS TO BE GROOVED THERMOPLASTIC, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER
 FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART II "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE LATEST L.O.D.T. HIGHWAY STANDARD 78000L

REVISIONS / REMARKS			
NO.	DESCRIPTION	DATE	BY

FILE NAME: C:\Users\hdmrc\Desktop\LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS.dgn

REVISIONS	DATE	APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007	LC7800
SEPARATED RAILROAD SHEET	06/02/08		
REVISED RPM DETAILS	07/11/12		
RAISED TO RECESSED MARKERS	12/2/13		
REMOVE STATION NUMBERS	5/30/14		
TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS SHEET 2 OF 2			
PROJECT NAME LAKE COUNTY STANDARDS & DETAILS	ROUTE SECTION CHXX XXX	SECTION NUMBER XX-XXXX-XX-XX	SHEET SHEETS XXX XXX

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USER NAME	DESIGNED	REVISOR
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	DNP	-
	MCW	-
	-	-

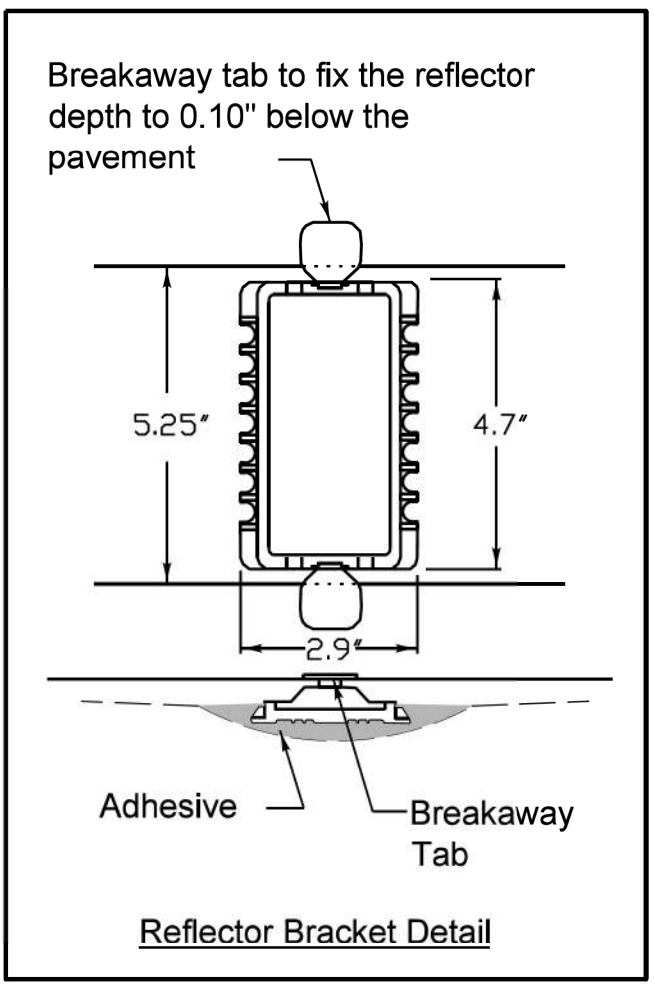
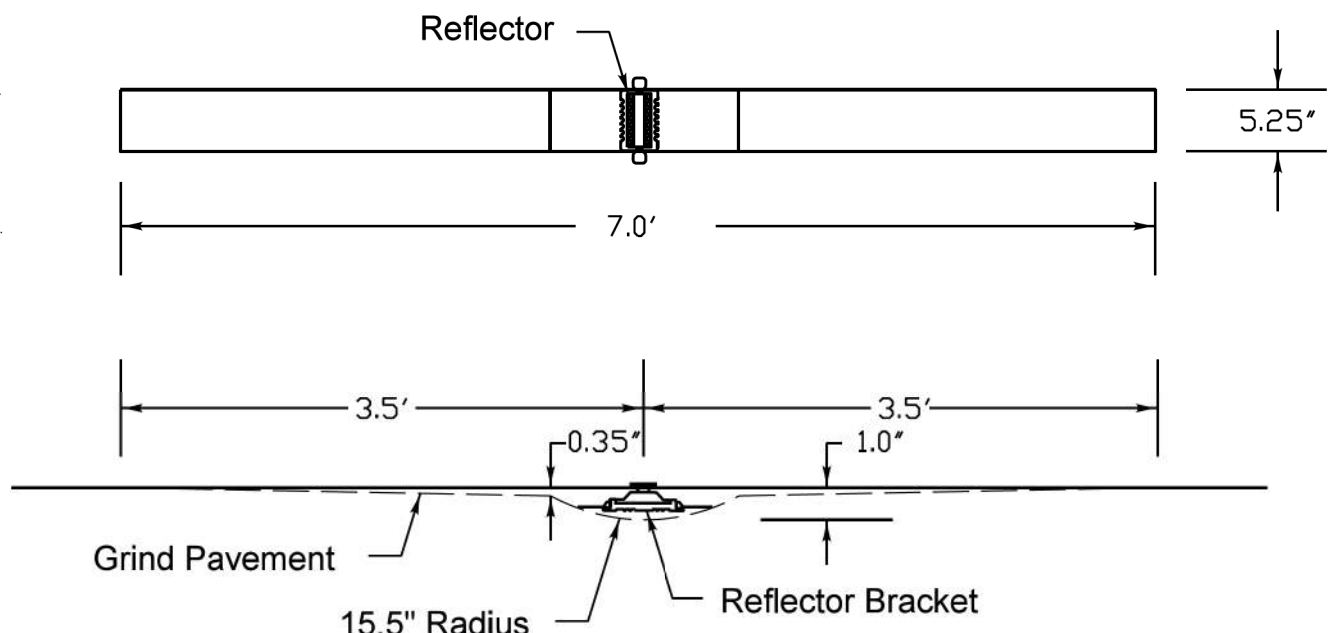
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 28 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	174

CONTRACT NO. 61K05
 ILLINOIS FED. AID PROJECT



Notes

1. The reflective pavement marker lens shall be a 3M 190 series pavement marker or an approved equal.
2. The reflector bracket shall be made of a polycarbonate and shall be a MarkerOne Series R100 or an approved equal.
3. The adhesive used shall meet the requirements of AASHTO M237 specification for adhesives to be used in cementing asphalt surfaces.
4. Markers shall be placed at 40' intervals on lane lines and painted medians and 40' intervals on curves and approaching intersections as shown on LCDOT standard LC7800.

REVISIONS	DATE

	APPROVED BY: JN DATE: 12/02/13
	RECESSED REFLECTIVE PAVEMENT MARKER

LC7805

MODEL: Default
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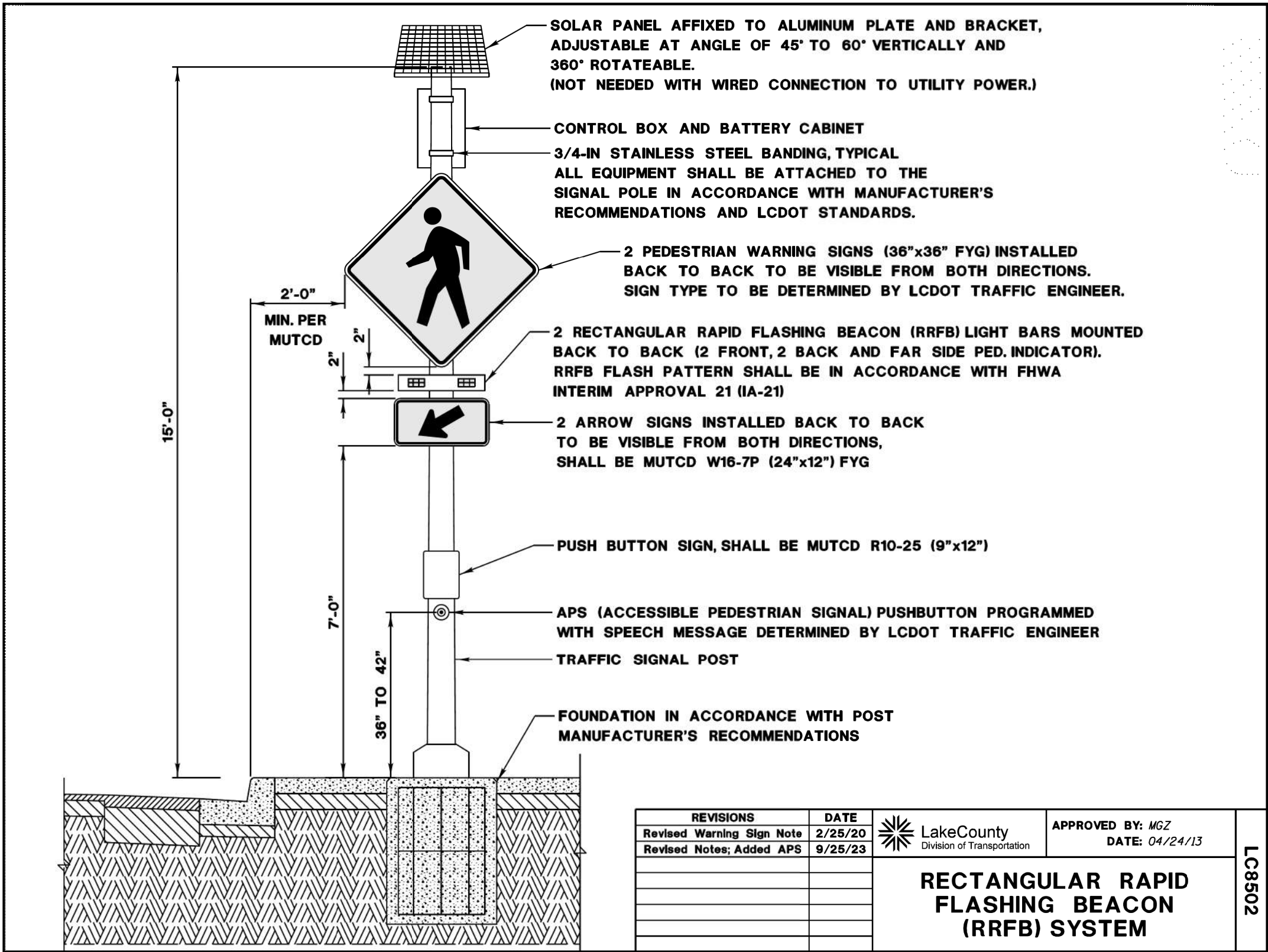
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N/A	SHEET 30 OF 33 SHEETS
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LCDOT STANDARD DETAIL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	176
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				



REVISIONS	DATE
Revised Warning Sign Note	2/25/20
Revised Notes; Added APS	9/25/23


LakeCounty
 Division of Transportation

APPROVED BY: MGZ
 DATE: 04/24/13

**RECTANGULAR RAPID
 FLASHING BEACON
 (RRFB) SYSTEM**

LC8502

MODEL: Default
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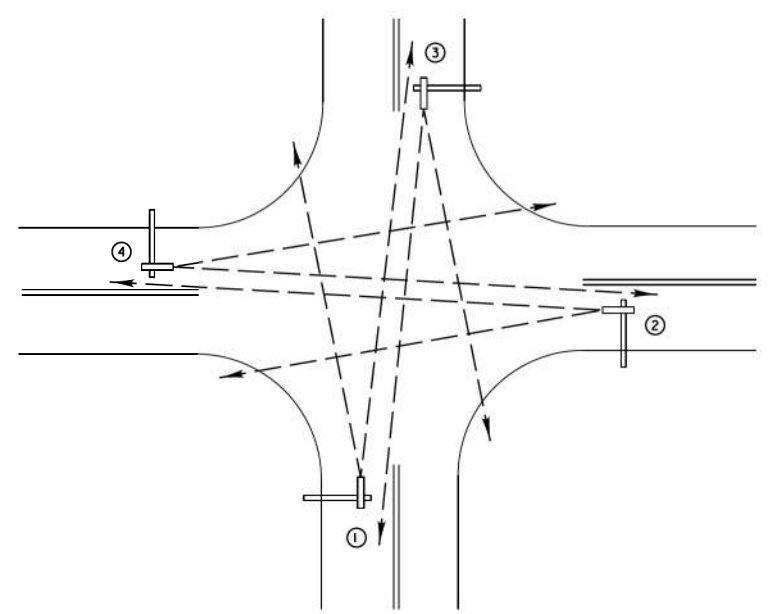
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	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

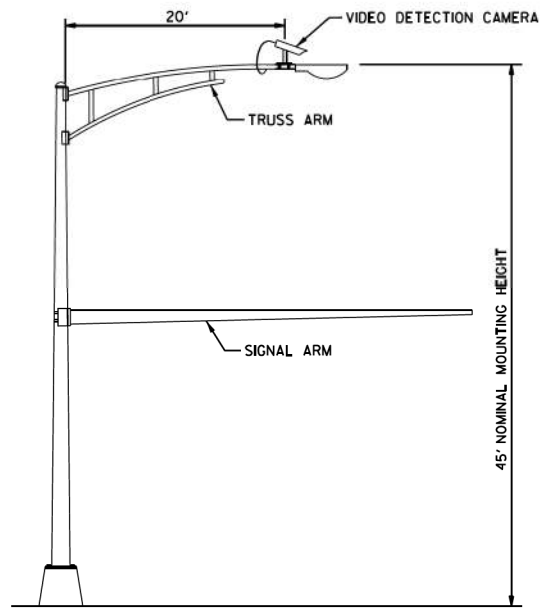
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	177
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

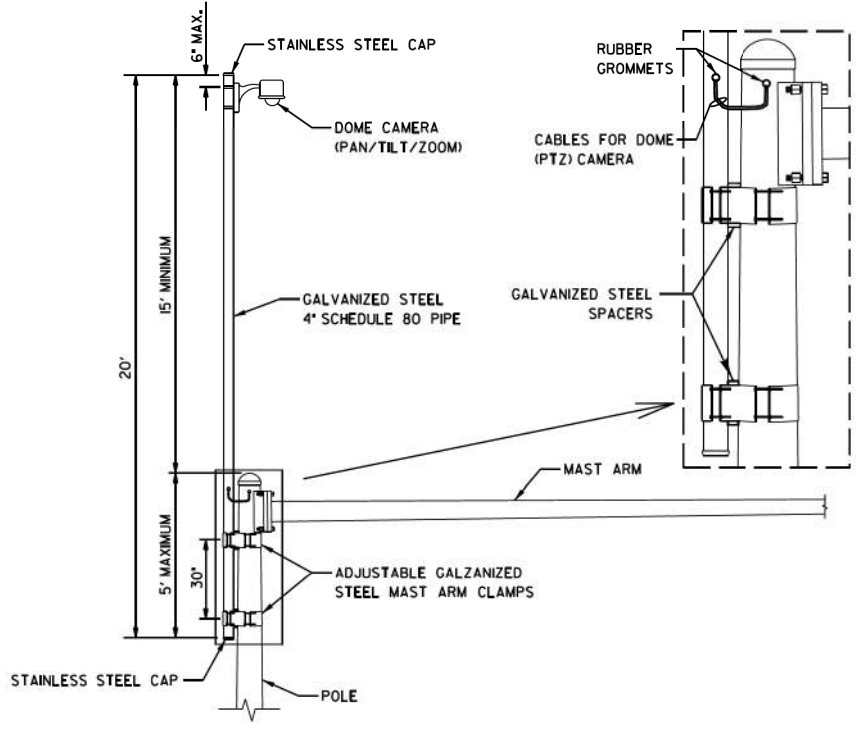


TYPICAL VIDEO VEHICLE DETECTION SYSTEM
(NOT TO SCALE)

(4) VIDEO DETECTION CAMERA ASSEMBLIES AND BRACKETS ① ② ③ ④

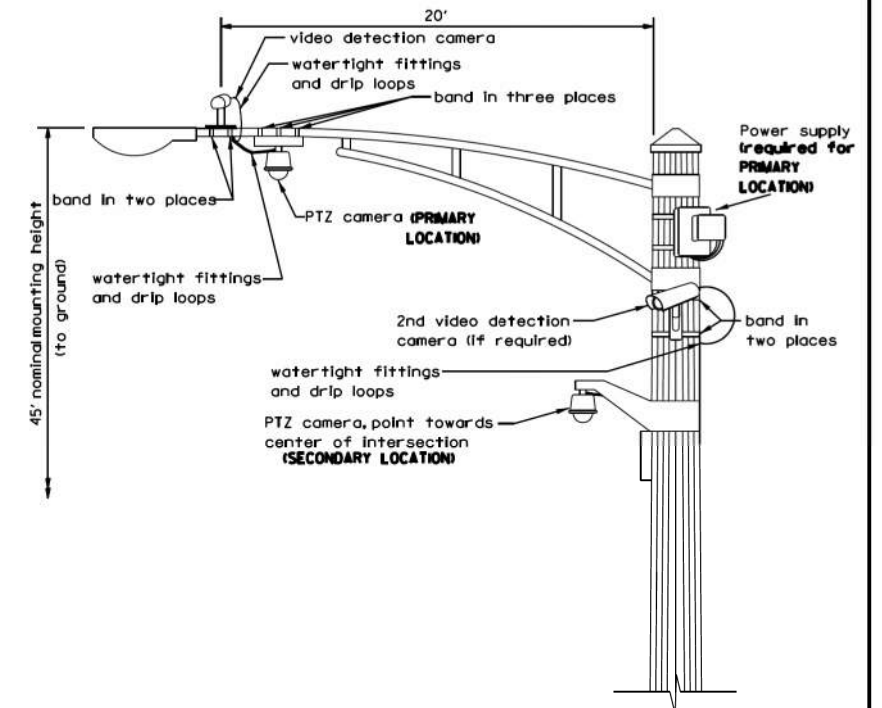


COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS
(NOT TO SCALE)



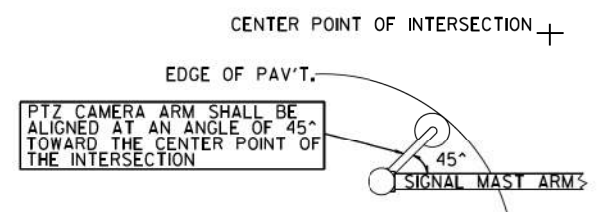
CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)

NOTES:
 - THE MAST ARM IS TAPERED.
 - INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
 - SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS



VIDEO DETECTION CAMERA(S) AND DOME (PTZ) CAMERA MOUNTING DETAIL
(NOT TO SCALE)

NOTES FOR SINGLE, DUAL AND MULTIPLE CAMERA MOUNTING:
 - MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
 - MOUNT VIDEO DETECTION CAMERA AIMING DOWN TOWARD THE DIRECTION OF TRAFFIC TO BE DETECTED.



PTZ CAMERA MOUNTING DETAILS (SECONDARY LOCATION)
(NO SCALE)

REVISIONS	DATE
Mounting Details Revised	05/01/08
2nd Camera Locat. added	01/14/09
Mast Arm Taper Detail	06/01/12
Mounting Details Revised	06/13/14



APPROVED BY: J. P. NELSON
DATE: JUNE 13, 2014

CAMERA MOUNTING DETAILS

LC8900

NO.	REVISIONS / REMARKS	DATE	BY	SURVEYOR

FILE NAME: C:\Users\hdrmc\Desktop\LC8900 VIDEO DETECTION DETAILS.DGN



PROJECT NAME		ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
LAKE COUNTY STANDARDS & DETAILS		CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX



USER NAME = PatelDe	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 "/in.	DRAWN - DNP	REVISED -
PLOT DATE = 10/30/2023	CHECKED - MCW	REVISED -
	DATE - 09/28/2023	REVISED -

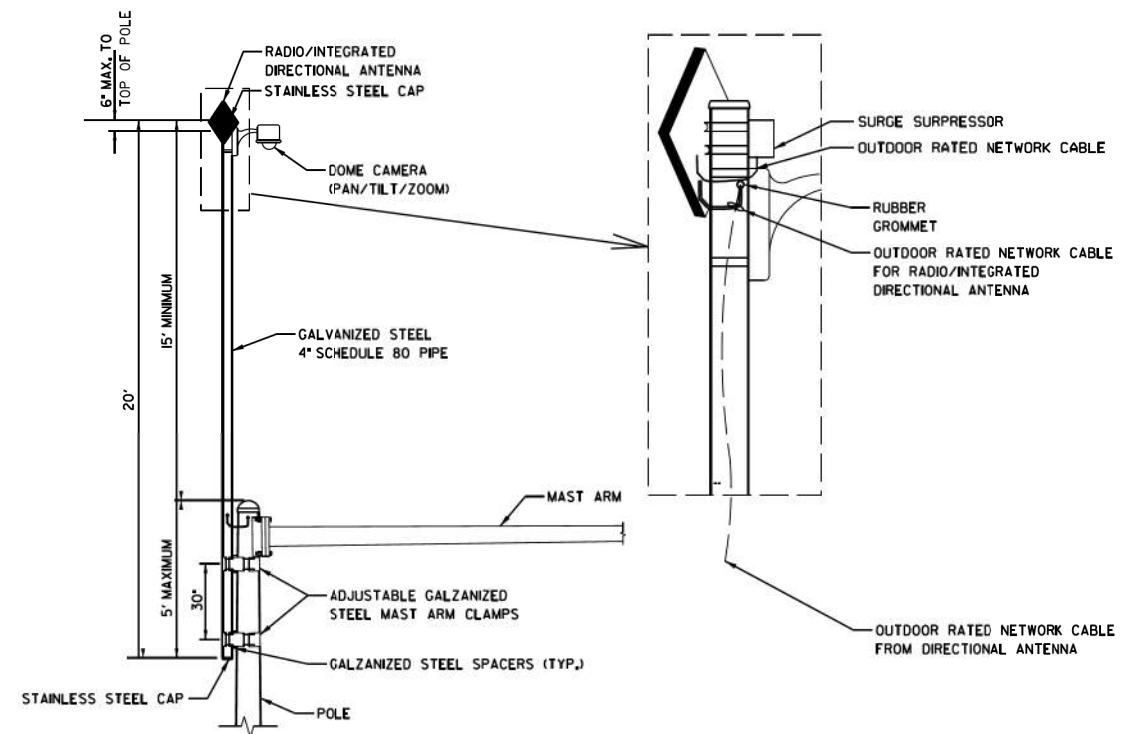
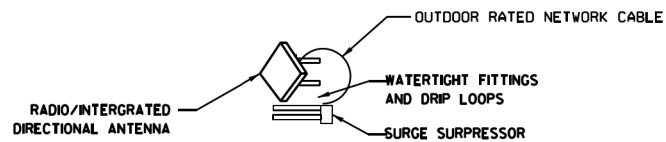
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

SCALE: N/A SHEET 32 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	178
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

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**WIRELESS TRANSMISSION SYSTEM, RADIO, VIDEO DETECTION CAMERA(S)
AND DOME (PTZ) CAMERA MOUNTING DETAIL**

(NOT TO SCALE)

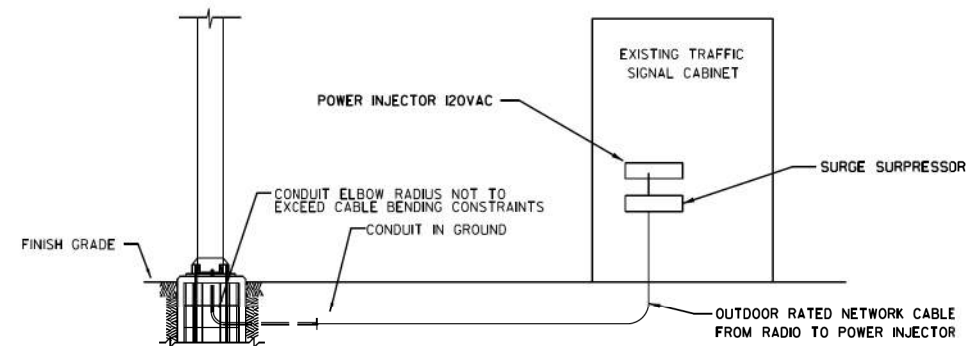
- NOTES FOR SINGLE, DUAL AND MULTIPLE MVP MOUNTING:
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
 - AIM BRACKET TOWARD DIRECTION OF TRAFFIC TO BE DETECTED.
 - MOUNT MACHINE VISION PROCESSOR AIMING DOWN AT 30 DEGREE ANGLE.

NOTES:

WIRELESS TRANSMISSION SYSTEM CONSISTS OF SHORT RANGE, LONG RANGE, AND POINT TO POINT, SEE PLANS FOR ACTUAL LOCATIONS

MANUFACTURER AND PART NOS.:

WIRELESS ANTENNA: PROXIM 5054-SUR-US OR APPROVED EQUAL
LONG RANGE WIRELESS ANTENNA: PROXIM 5054SUR-LR-US OR APPROVED EQUAL
SEE PLANS FOR SPECIFIED WIRELESS ANTENNA



**WIRELESS TRANSMISSION SYSTEM AND RADIO INSTALLATION
ON CAMERA MOUNTING ASSEMBLY DETAIL**

(NOT TO SCALE)

NOTES:

- THE MAST ARM IS TAPERED.
- INSTALL THE EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS.

REVISIONS	DATE	Lake County Division of Transportation	APPROVED BY: Jon Nelson
			DATE: 6/1/12
WIRELESS TRANSMISSION SYSTEM DETAILS			LC8902

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR

FILE NAME: U:\Everyone\LCDOT\standards\design\dgn files\LC8902 WIRELESS TRANSMISSION SYSTEM DETAILS.dgn



PROJECT NAME

LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX



USER NAME = PatelDe	DESIGNED -	REVISED -
	DRAWN - DNP	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED - MCW	REVISED -
PLOT DATE = 10/30/2023	DATE - 09/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LCDOT STANDARD DETAIL

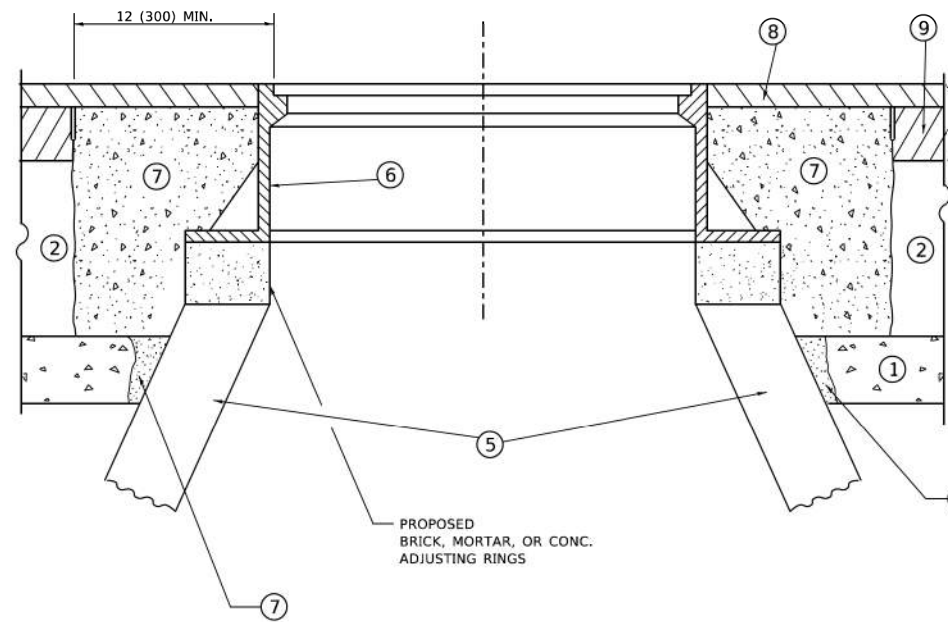
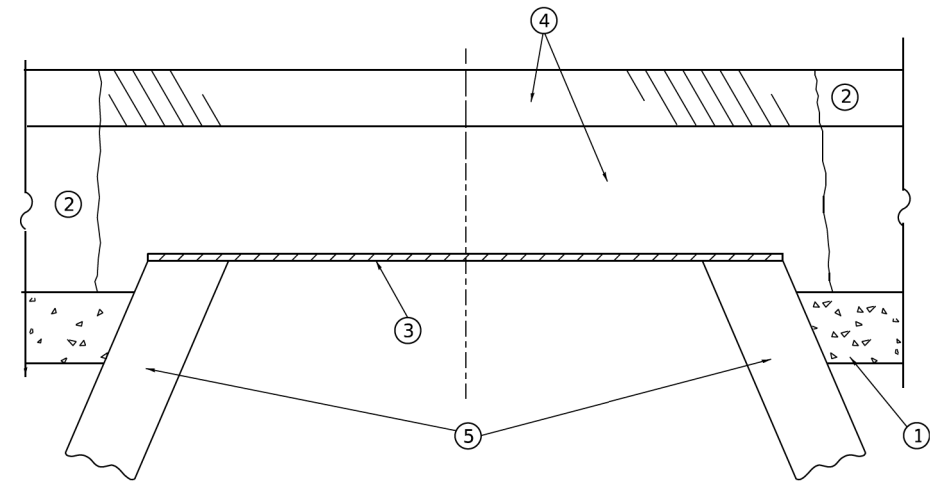
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	179

CONTRACT NO. 61K05

ILLINOIS FED. AID PROJECT

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**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

NOTES

- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-2* CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

- REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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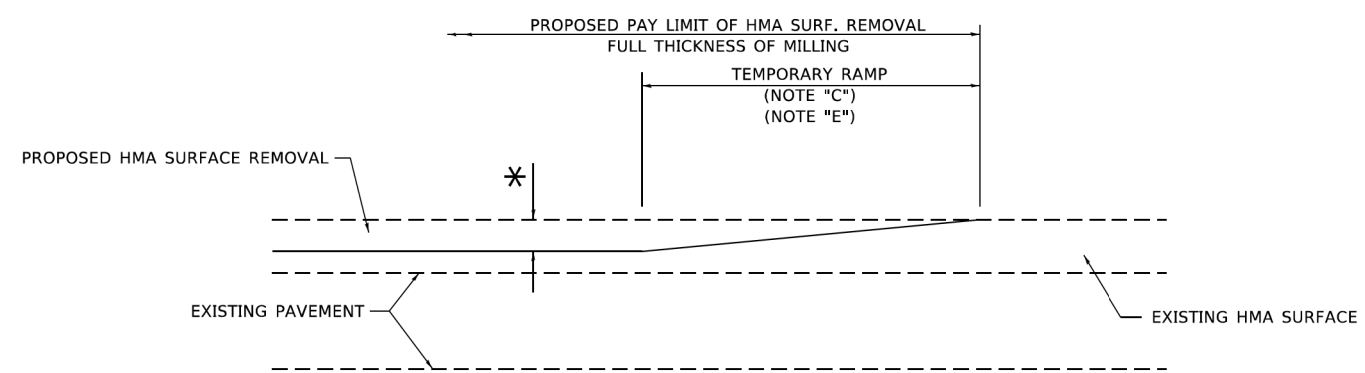
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	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

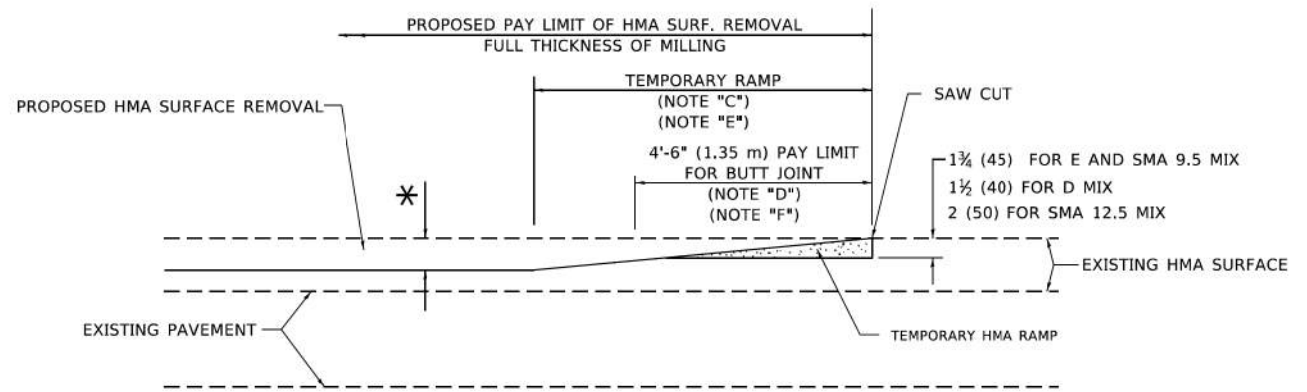
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	181
BD600-03 (BD-08)			CONTRACT NO. 61K05	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

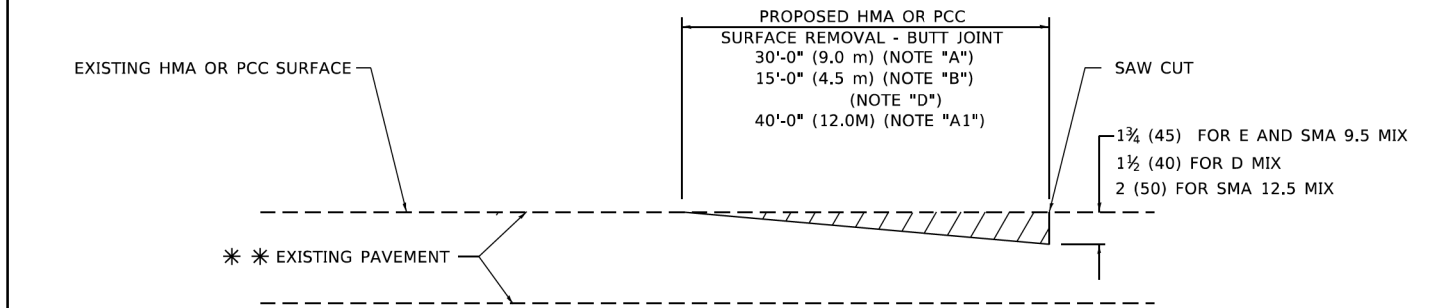
OPTION 1



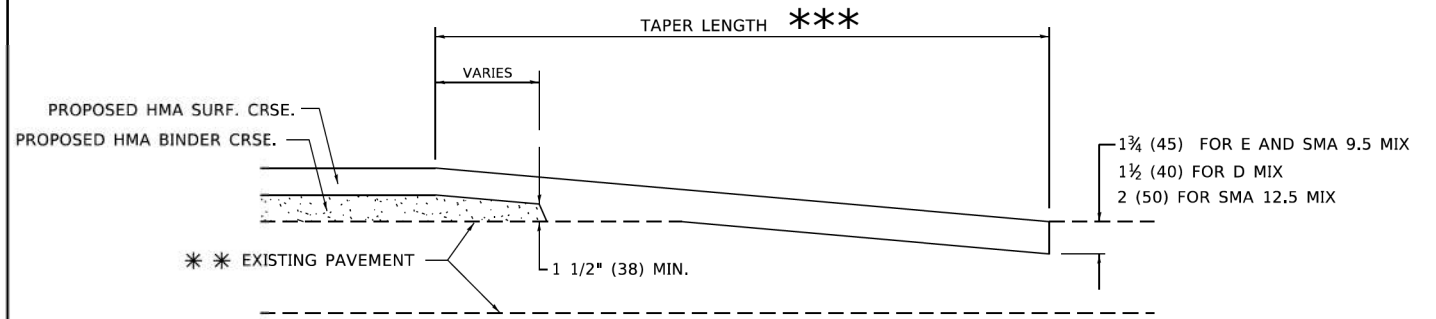
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

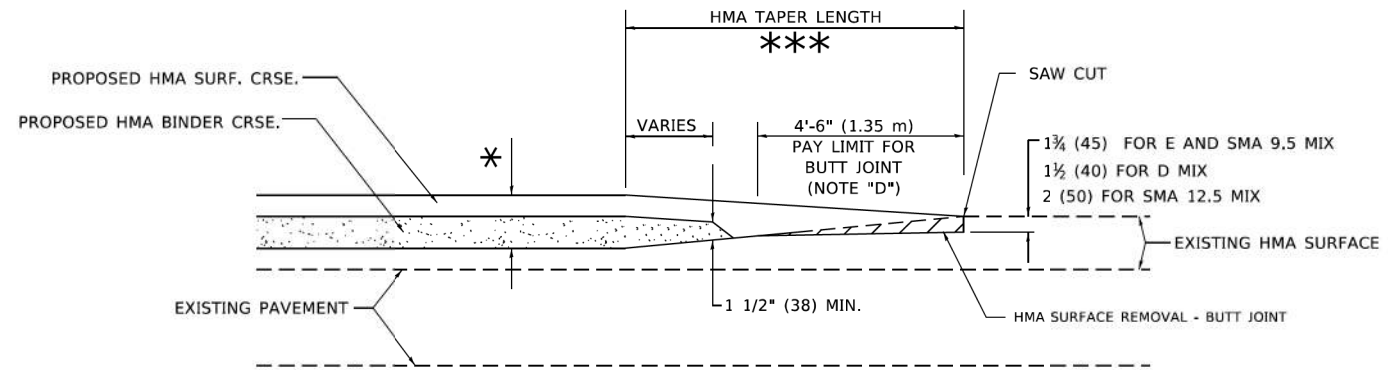
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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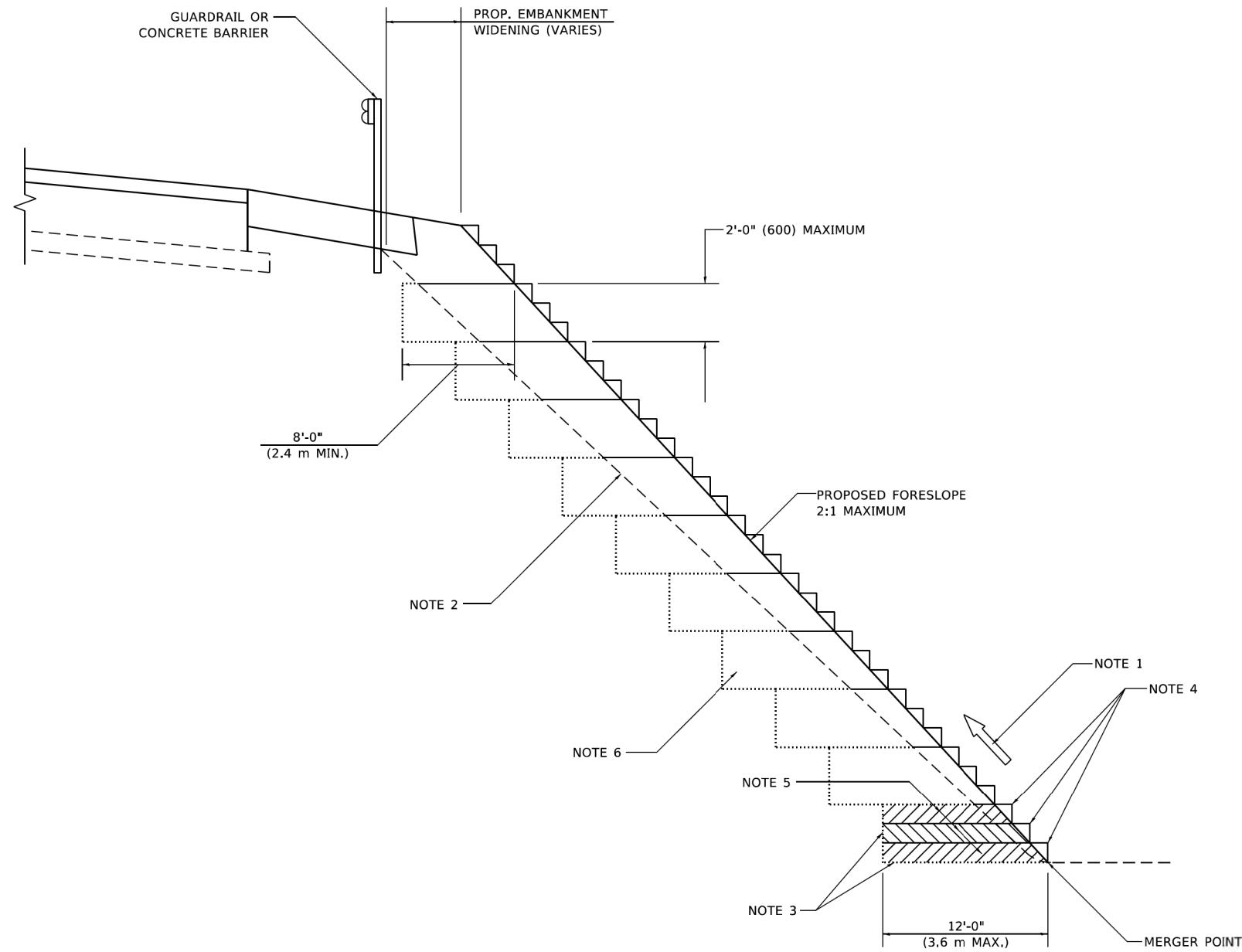
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	DRAWN -	REVISED - M. GOMEZ 04-06-01
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PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	182
BD400-05 BD-32		CONTRACT NO. 61K05		
ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

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 PLOT DATE: 11/18/2022
 USER: Lawrence, DeManche
 DESIGNED: K. SMITH 11-18-22
 DRAWN: CADD
 CHECKED: S.E.B.
 DATE: 06-16-04

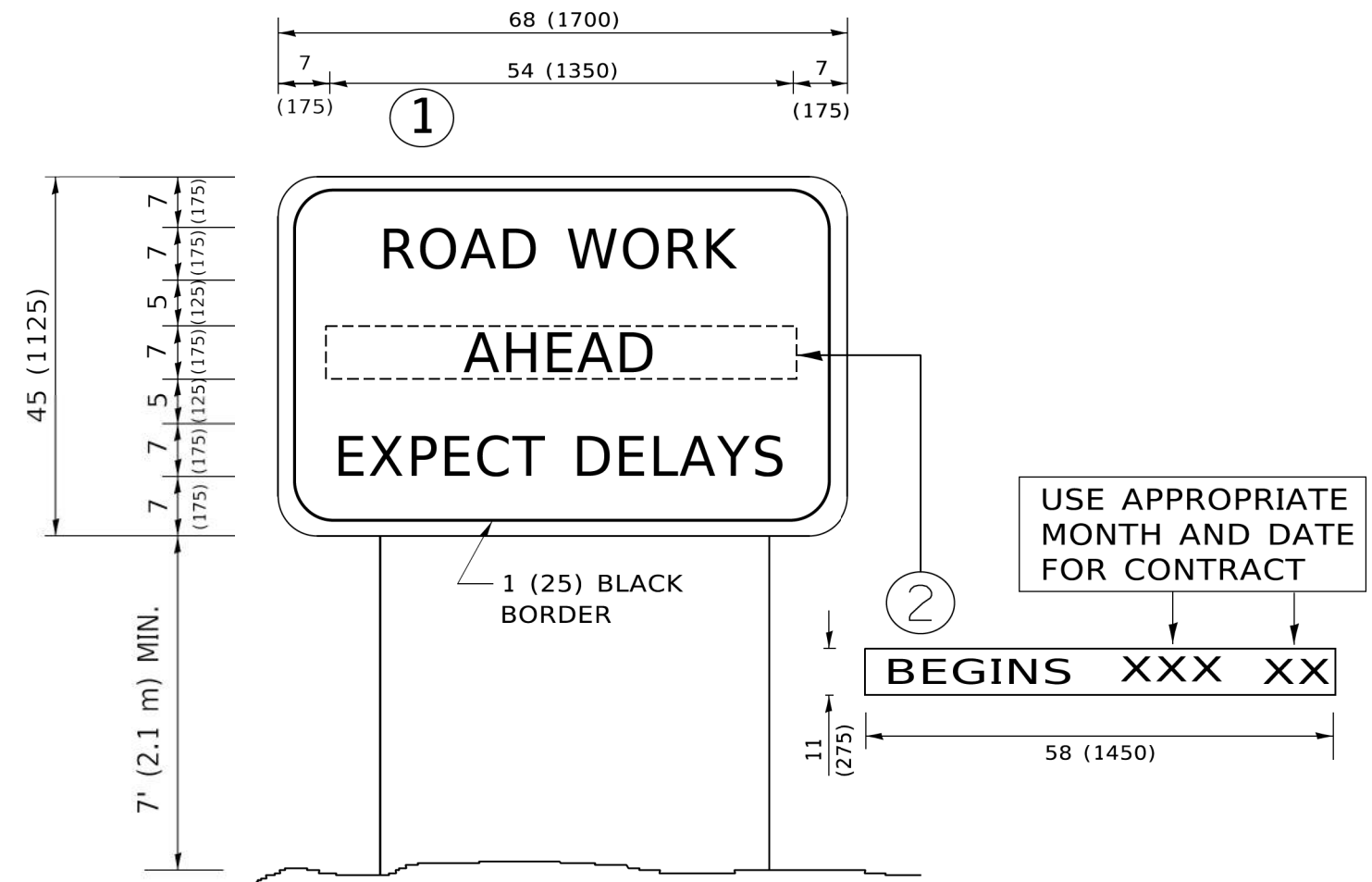
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PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	184
BD-51			CONTRACT NO. 61K05	
ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

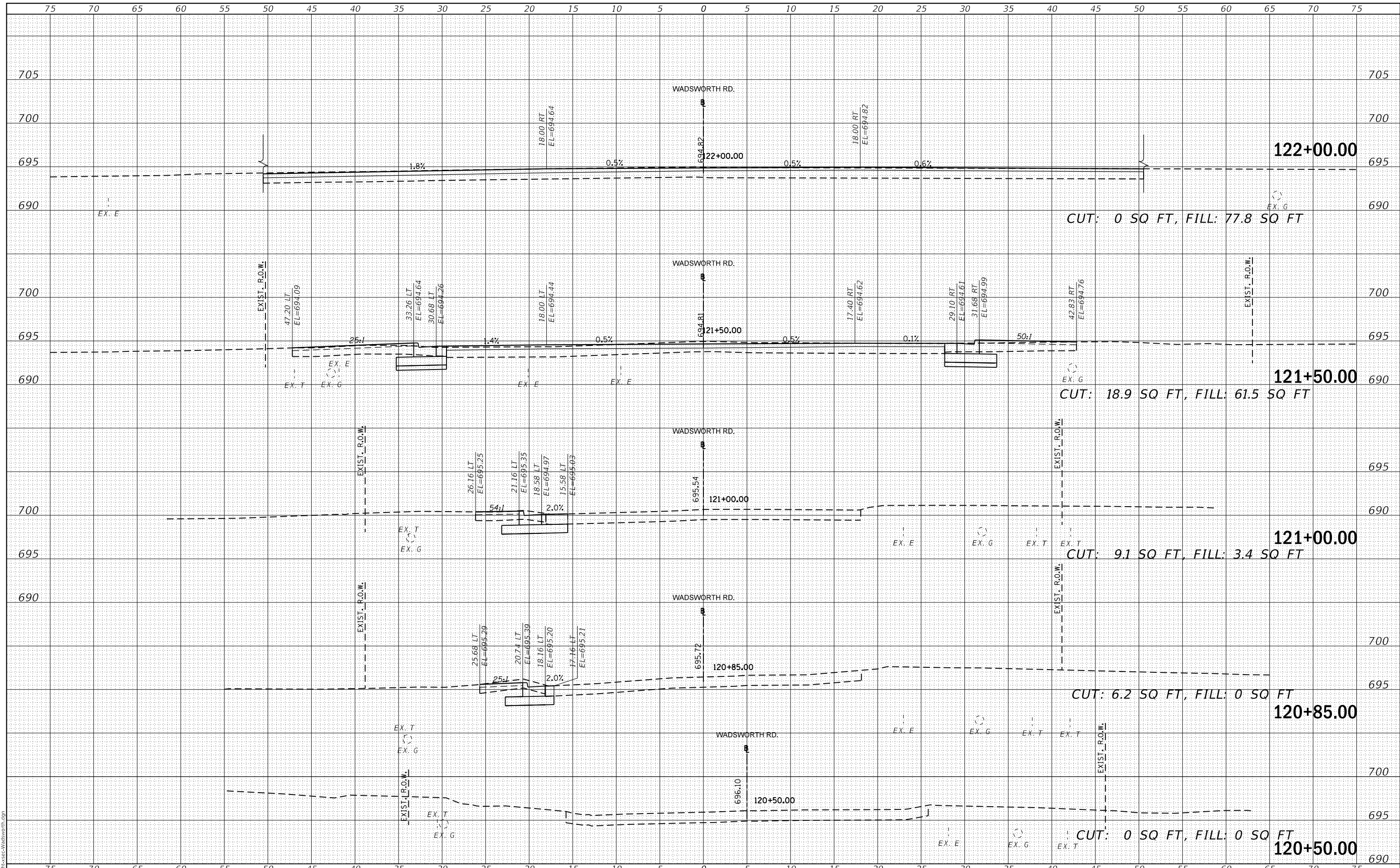
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	227	185
TC-22			CONTRACT NO. 61K05	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	CHECKED

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	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

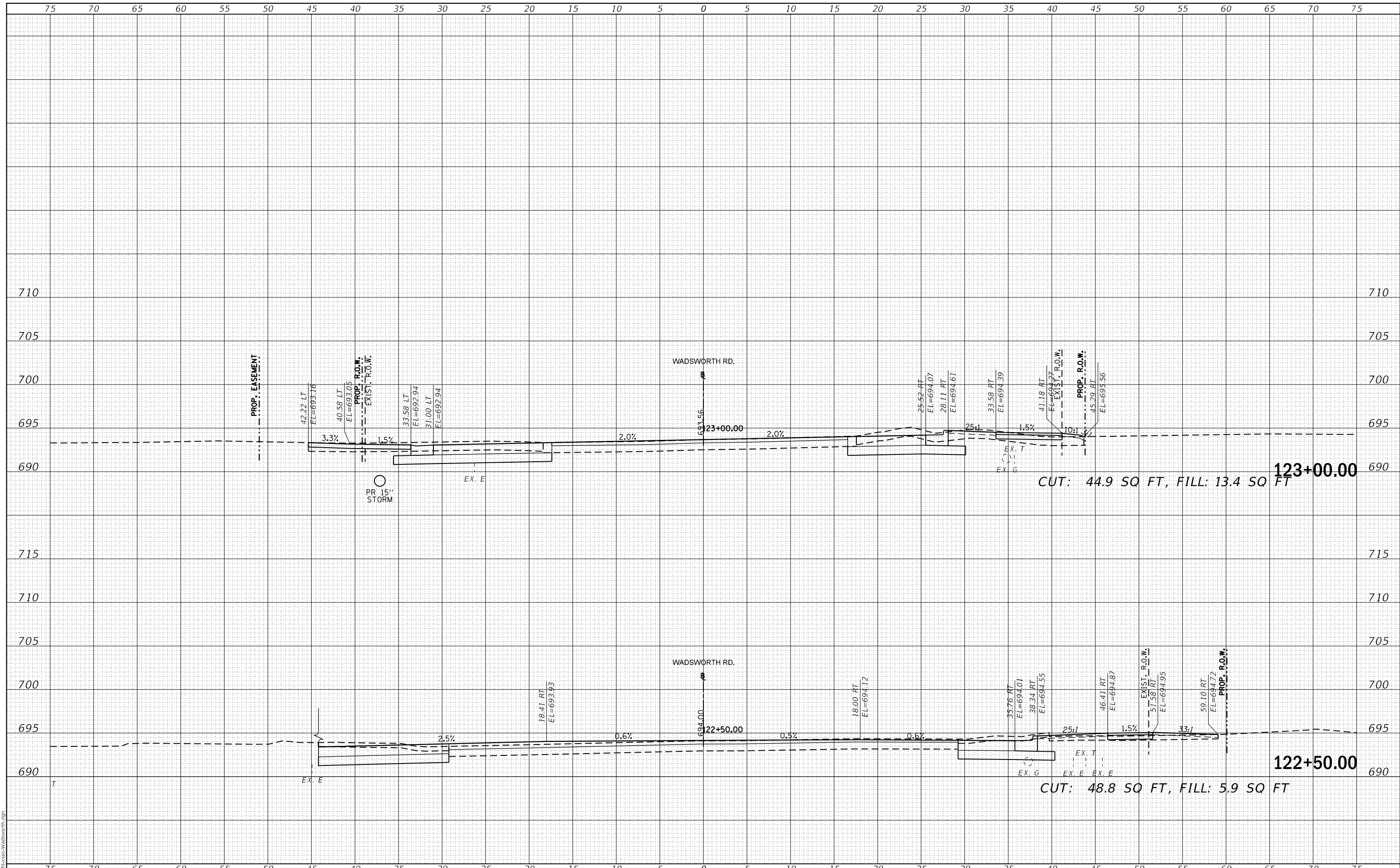
**CROSS SECTIONS
WADSWORTH ROAD**

SCALE: SHEET 1 OF 32 SHEETS STA. 120+50.00 TO STA. 122+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	186
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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PLOT DATE = 10/30/2023	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

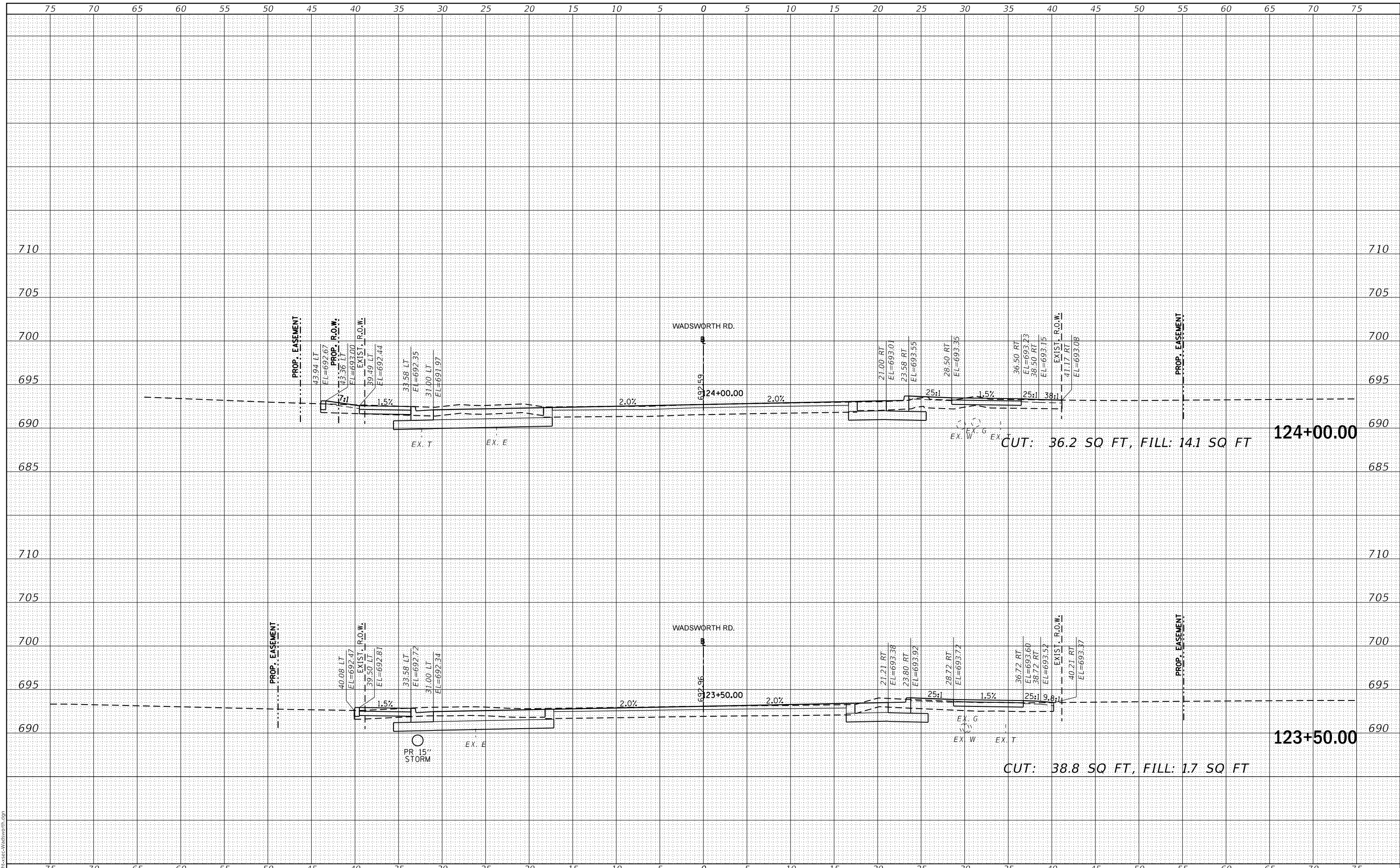
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	187
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

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**LAKE COUNTY
DIVISION OF TRANSPORTATION**

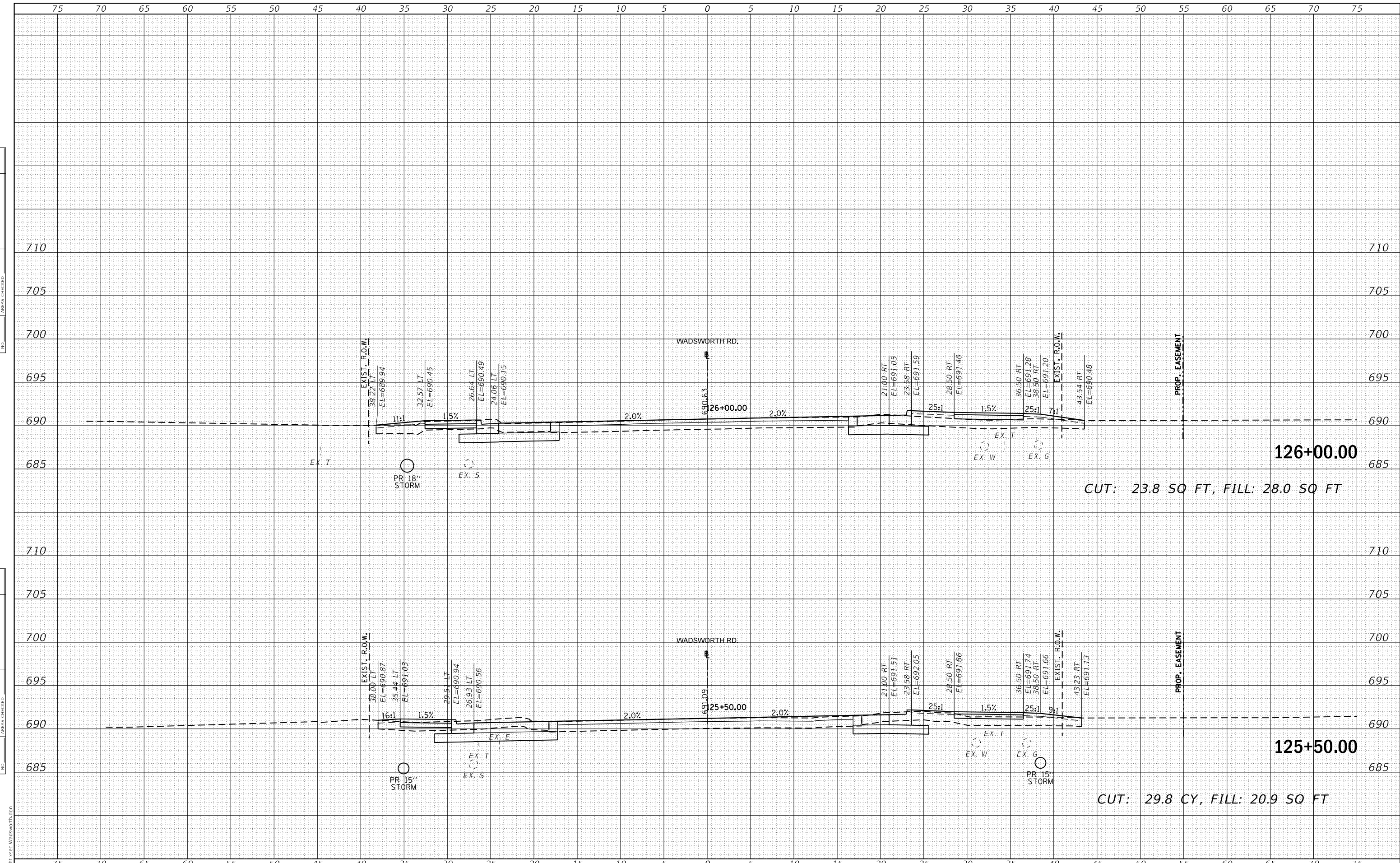
**CROSS SECTIONS
WADSWORTH ROAD**

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	188
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	



CUT: 23.8 SQ FT, FILL: 28.0 SQ FT

CUT: 29.8 CY, FILL: 20.9 SQ FT



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN - TSJ	REVISED -
PLOT DATE = 10/30/2023	CHECKED - ALM	REVISED -
	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

CROSS SECTIONS WADSWORTH ROAD			
SCALE:	SHEET 5	OF 32 SHEETS	STA. 125+00.00 TO STA. 126+00.00

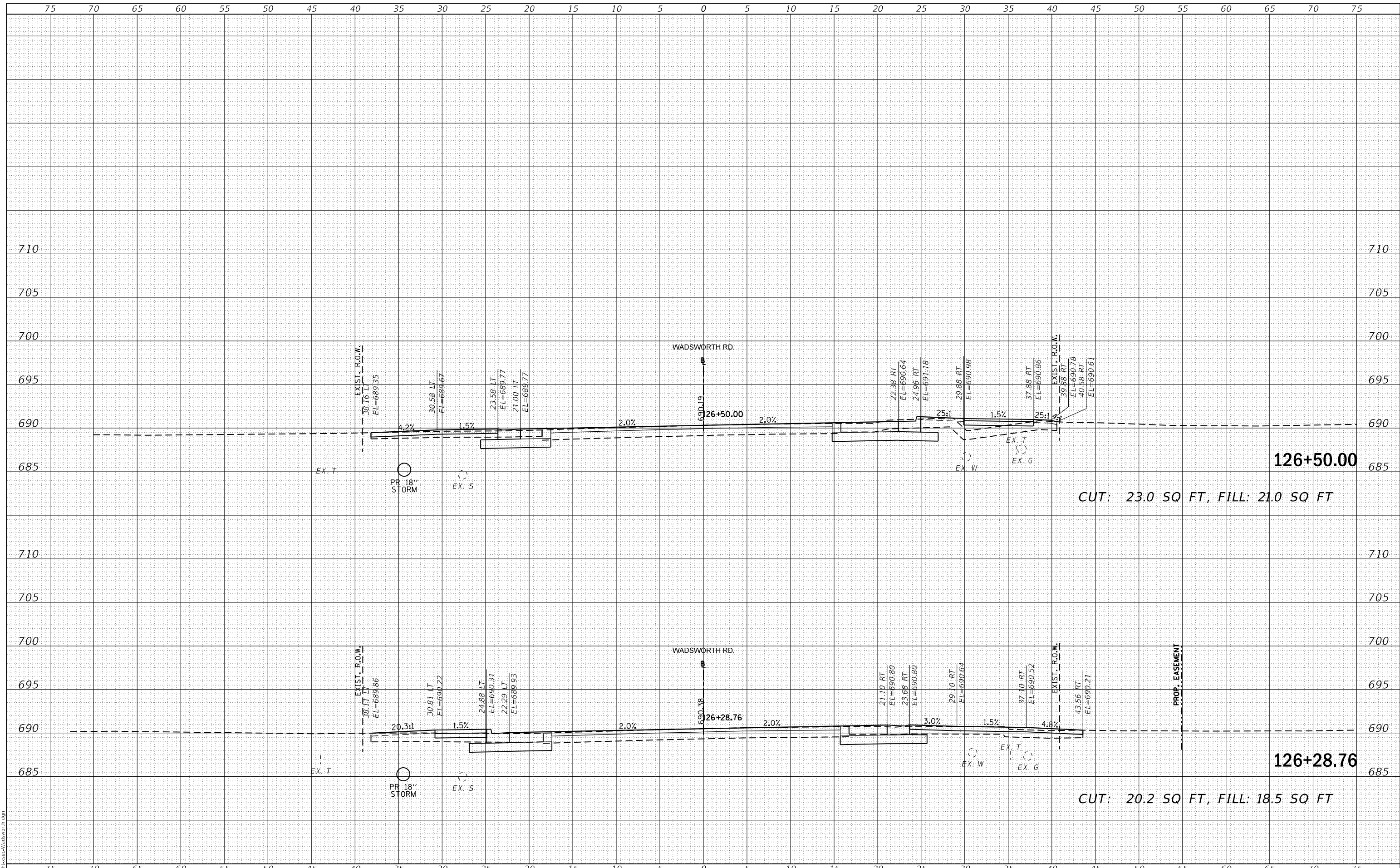
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	190
CONTRACT NO. 61K05				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
FILE NAME: C:\path\to\file\Wadsworth.dgn

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

MODEL: Definit
FILE NAME: C:\path\boxec-Wadsworth.dgn



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TSI	REVISED -
PLOT DATE = 10/30/2023	CHECKED - ALM	REVISED -
	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

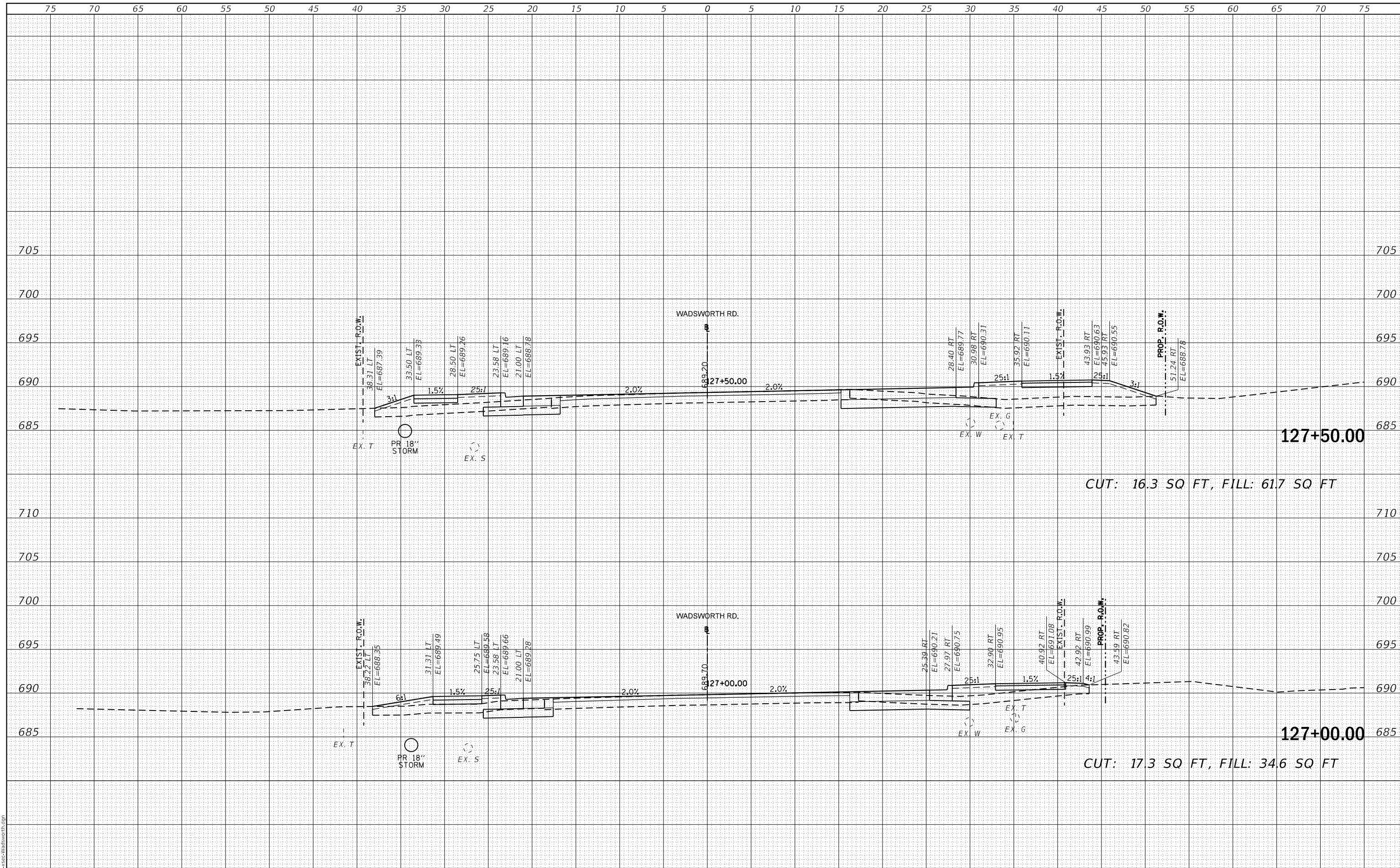
**CROSS SECTIONS
WADSWORTH ROAD**

SCALE: SHEET 6 OF 32 SHEETS STA. 126+28.76 TO STA. 126+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	191
CONTRACT NO. 61K05				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



MODEL: Default
 FILE NAME: C:\path\to\file\Wadsworth.dgn



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TSI	REVISED -
PLOT DATE = 10/30/2023	CHECKED - ALM	REVISED -
	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
 DIVISION OF TRANSPORTATION**

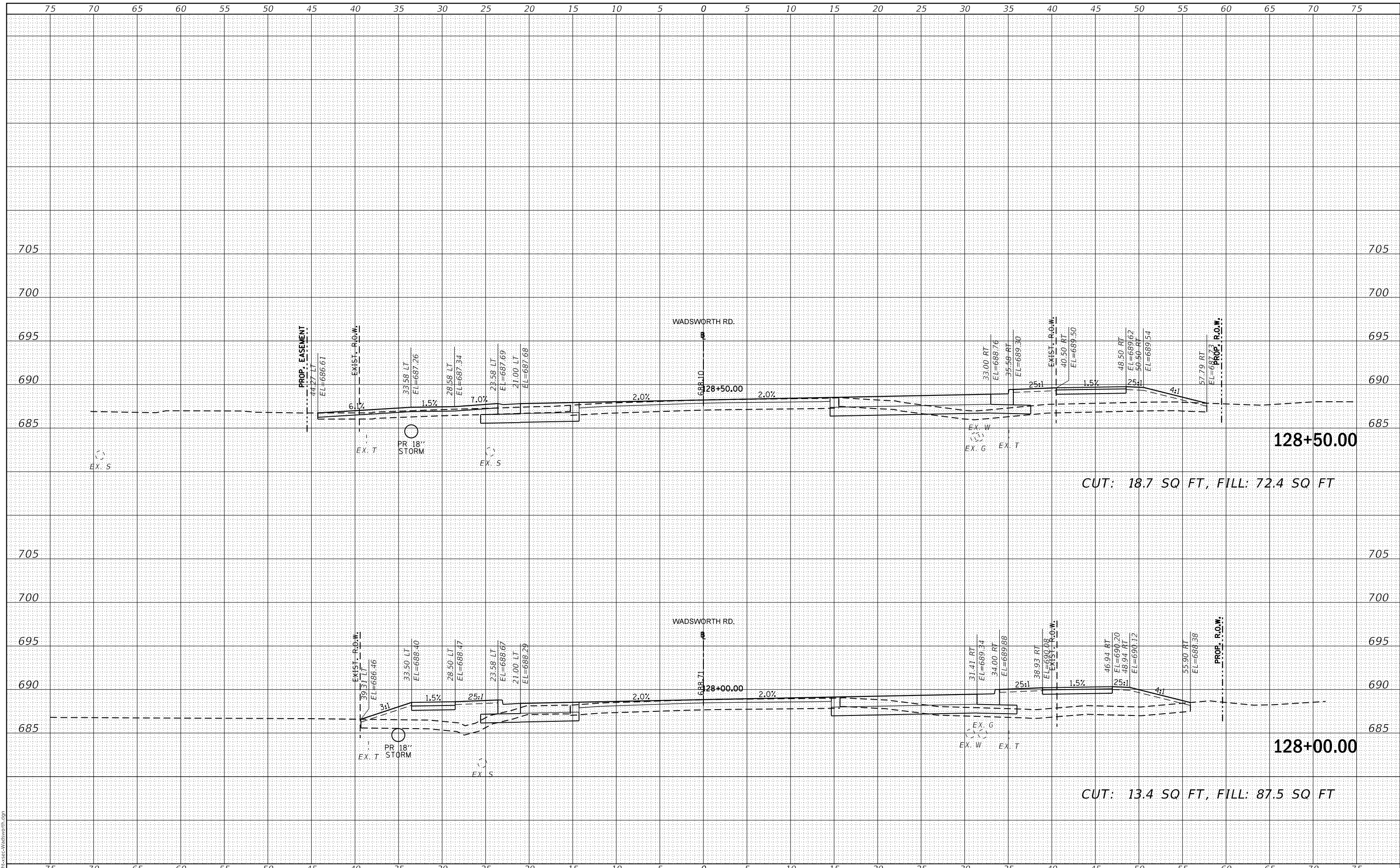
CROSS SECTIONS WADSWORTH ROAD			
SCALE:	SHEET 7	OF 32 SHEETS	STA. 127+00.00 TO STA. 127+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	192
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

MODEL: Default
FILE NAME: CP:13-0055-Wadsworth.dgn



128+50.00
CUT: 18.7 SQ FT, FILL: 72.4 SQ FT

128+00.00
CUT: 13.4 SQ FT, FILL: 87.5 SQ FT



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TSI	REVISED -
PLOT DATE = 10/30/2023	CHECKED - ALM	REVISED -
	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

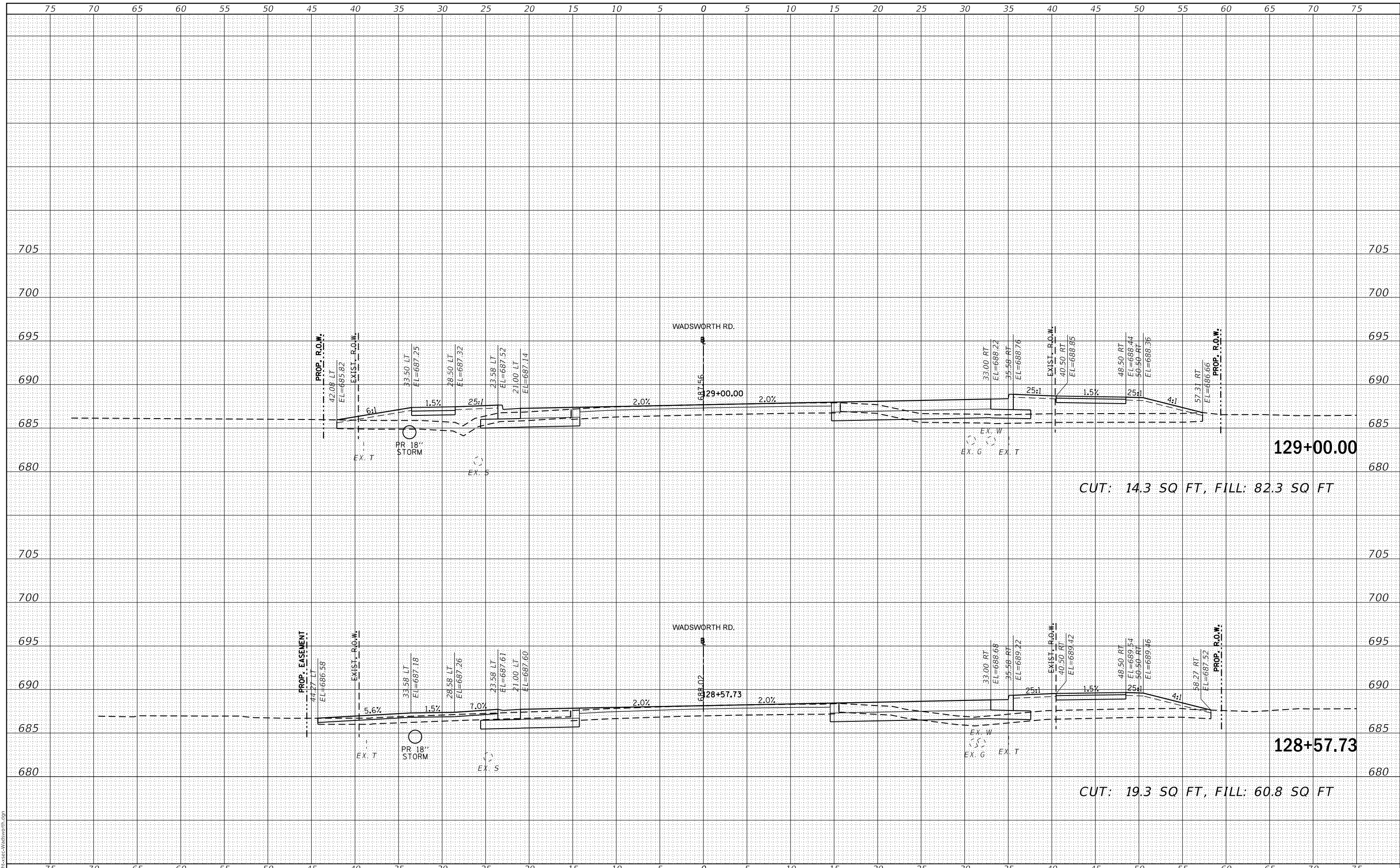
SCALE: SHEET 8 OF 32 SHEETS STA. 128+00.00 TO STA. 128+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-0055-06-WR	LAKE	228	193
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

MODEL: Default
FILE NAME: C:\path\ss-Wadsworth.dgn



129+00.00
CUT: 14.3 SQ FT, FILL: 82.3 SQ FT

128+57.73
CUT: 19.3 SQ FT, FILL: 60.8 SQ FT



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TSI	REVISED -
PLOT DATE = 10/30/2023	CHECKED - ALM	REVISED -
	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

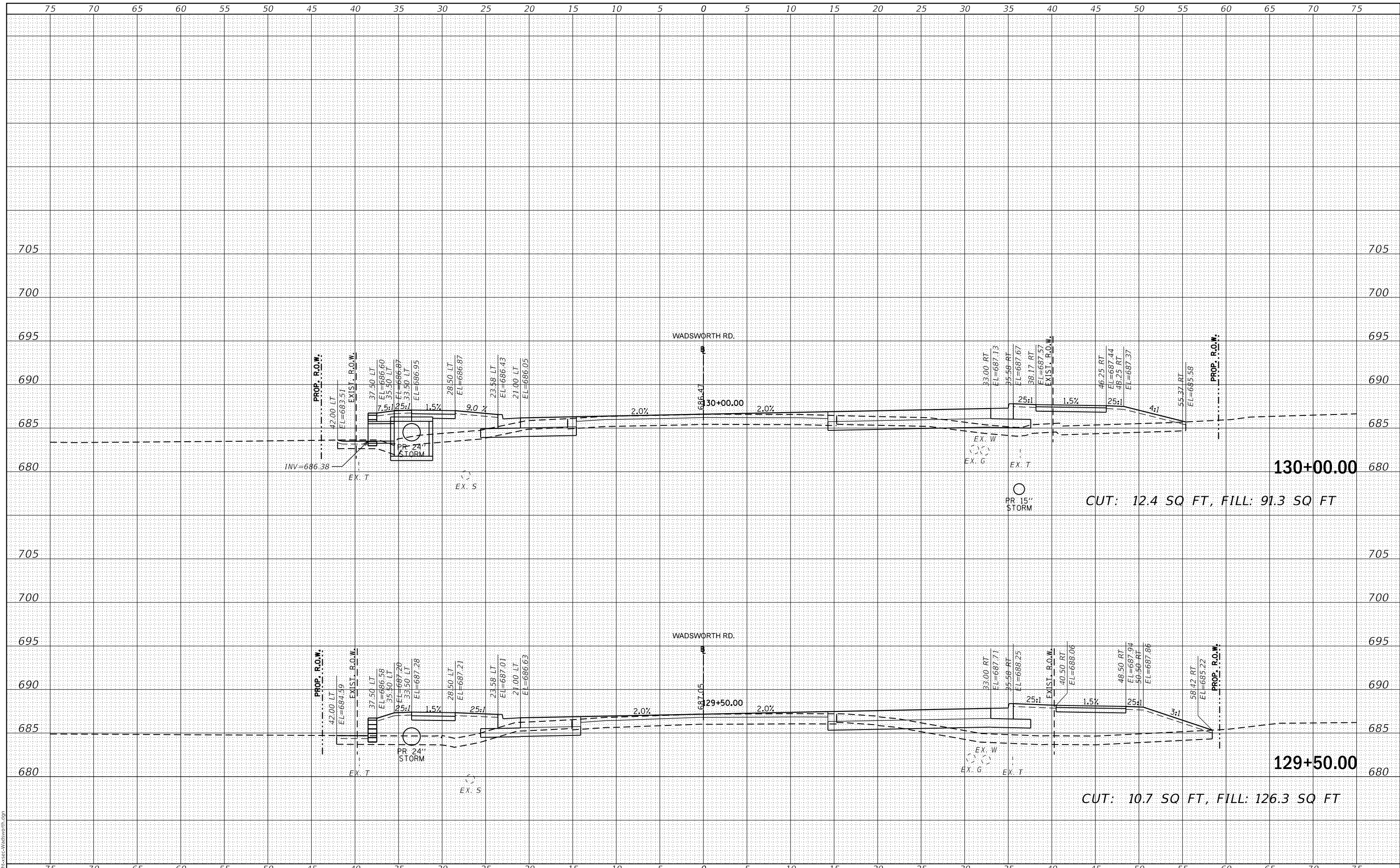
SCALE: SHEET 9 OF 32 SHEETS STA. 128+57.73 TO STA. 129+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	194
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

MODEL: Default
FILE NAME: C:\path\ss-Wadsworth.dgn



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TSI	REVISED -
PLOT DATE = 10/30/2023	CHECKED - ALM	REVISED -
	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

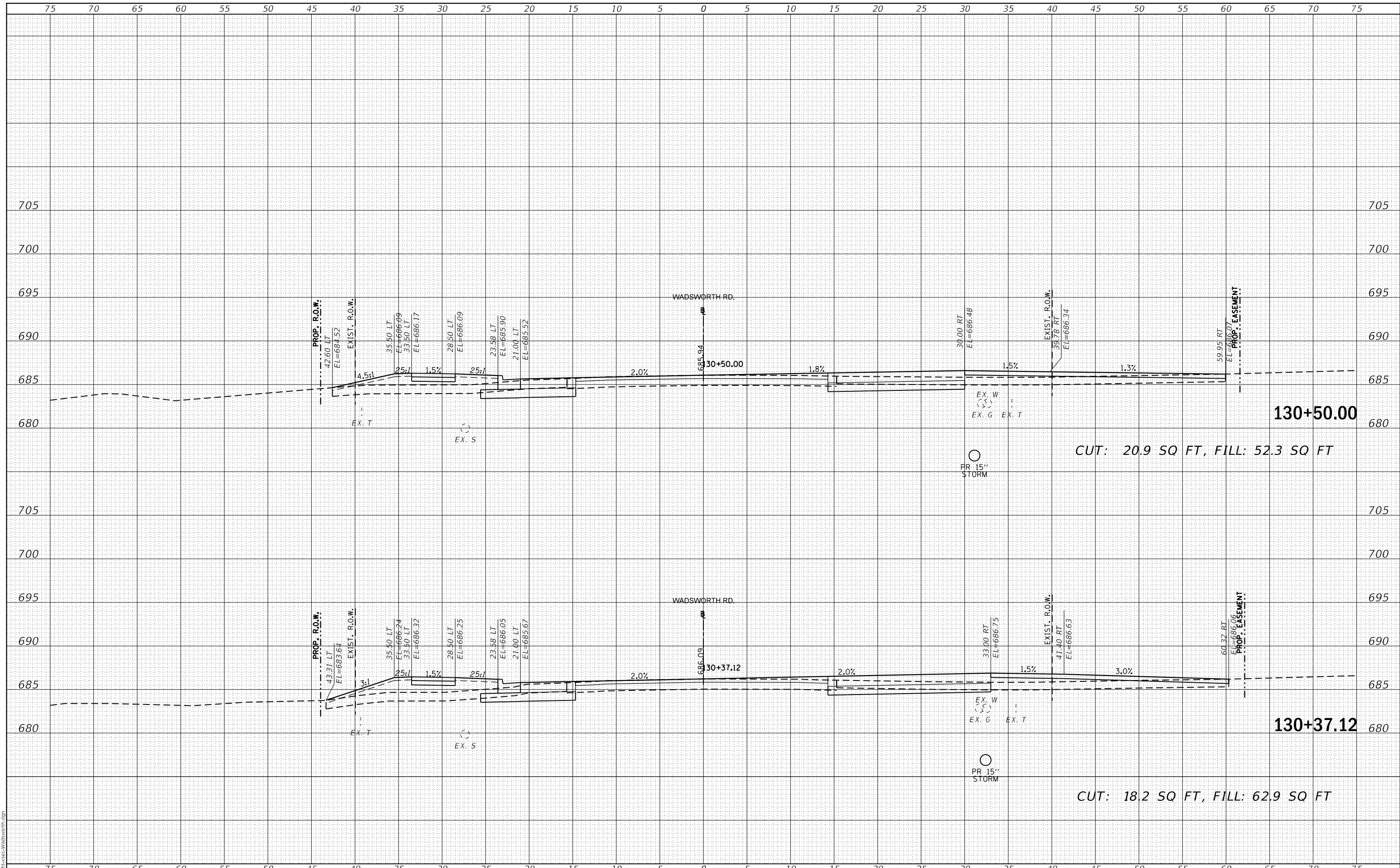
SCALE: SHEET 10 OF 32 SHEETS STA. 129+50.00 TO STA. 130+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	195
CONTRACT NO. 61K05				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS	

MODEL: Default
FILE NAME: CP:\a\boxes\Wadsworth.dgn



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
	DRAWN - TSI	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - ALM	REVISED -
PLOT DATE = 10/30/2023	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

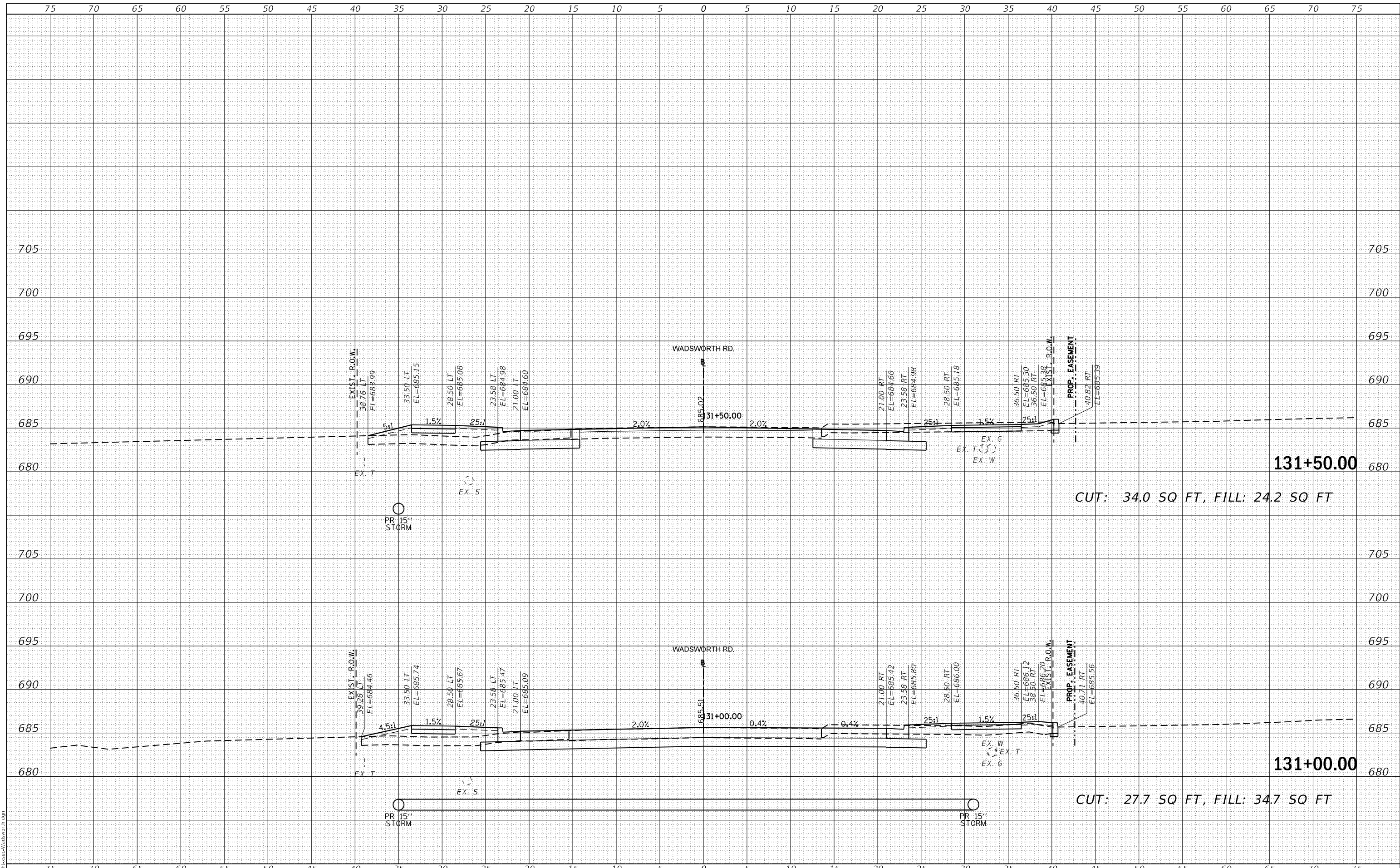
SCALE: SHEET 11 OF 32 SHEETS STA. 130+37.12 TO STA. 130+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	196
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	

MODEL: Default
FILE NAME: C:\path\ss-Wadsworth.dgn



131+50.00
CUT: 34.0 SQ FT, FILL: 24.2 SQ FT

131+00.00
CUT: 27.7 SQ FT, FILL: 34.7 SQ FT



USER NAME = PatelDe
PLOT SCALE = 10.0000' / in.
PLOT DATE = 10/30/2023

DESIGNED - DTJ
DRAWN - TSI
CHECKED - ALM
DATE - 07/30/2021

REVISED -
REVISED -
REVISED -
REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

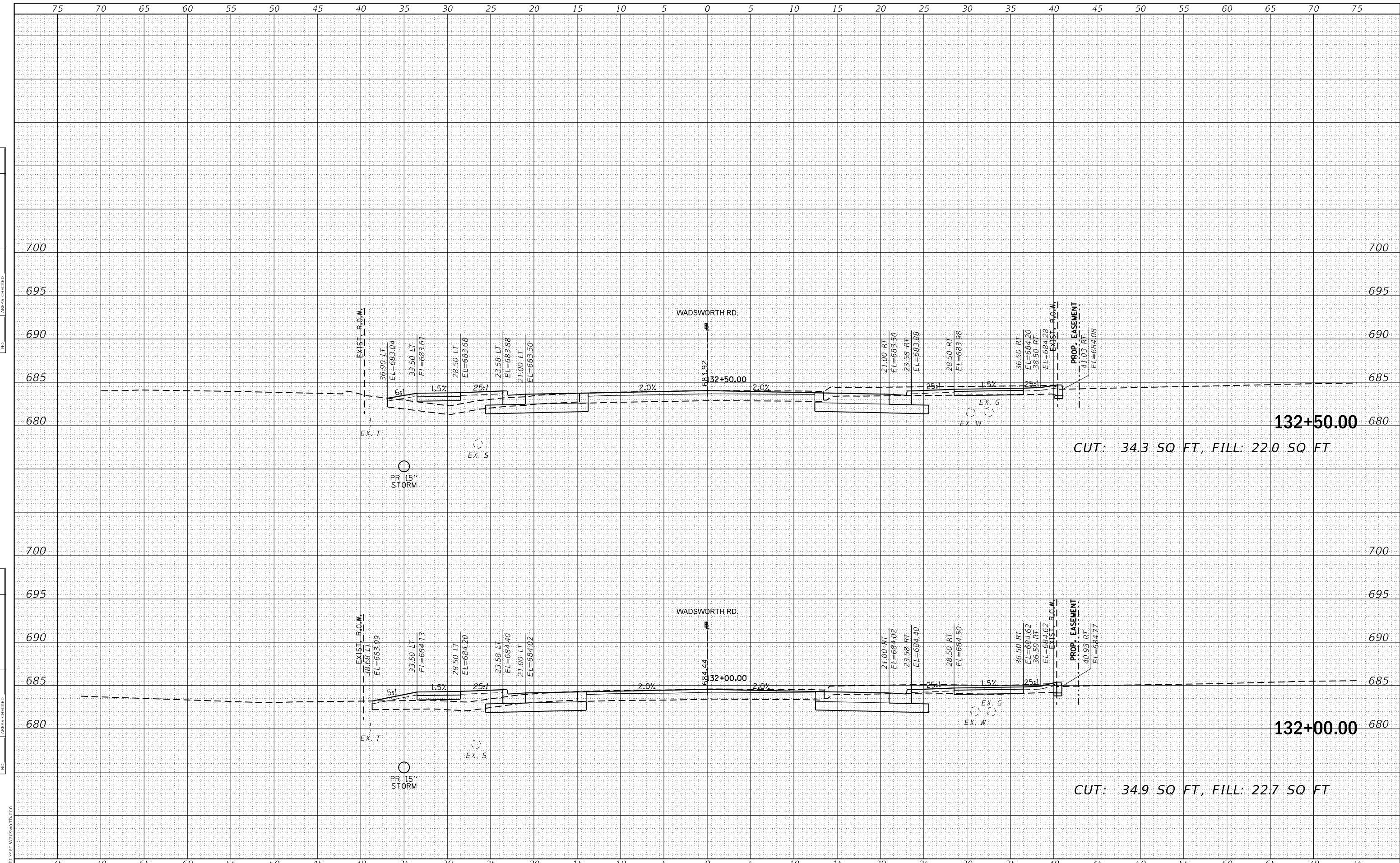
SCALE: SHEET 12 OF 32 SHEETS STA. 131+00.00 TO STA. 131+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	197

CONTRACT NO. 61K05
ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



MODEL: Default
FILE NAME: C:\path\cross-sections\Wadsworth.dgn



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
	DRAWN - TSJ	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - ALM	REVISED -
PLOT DATE = 10/30/2023	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

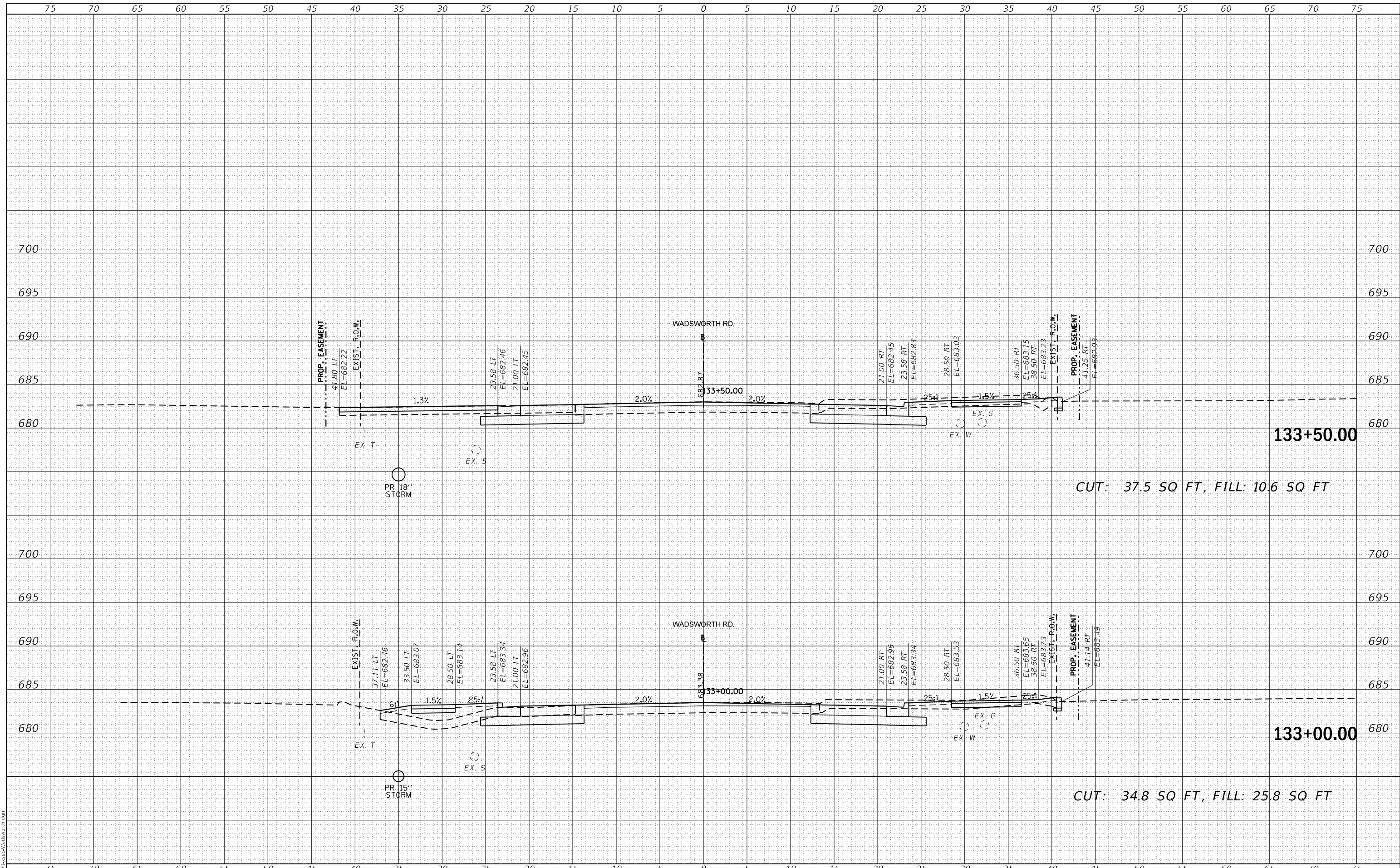
SCALE: SHEET 13 OF 32 SHEETS STA. 132+00.00 TO STA. 132+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	198
CONTRACT NO. 61K05				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

MODEL: Default
FILE NAME: CP:133+00-133+50-Wadsworth.dgn



133+50.00
CUT: 37.5 SQ FT, FILL: 10.6 SQ FT

133+00.00
CUT: 34.8 SQ FT, FILL: 25.8 SQ FT



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
	DRAWN - TSI	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - ALM	REVISED -
PLOT DATE = 10/30/2023	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

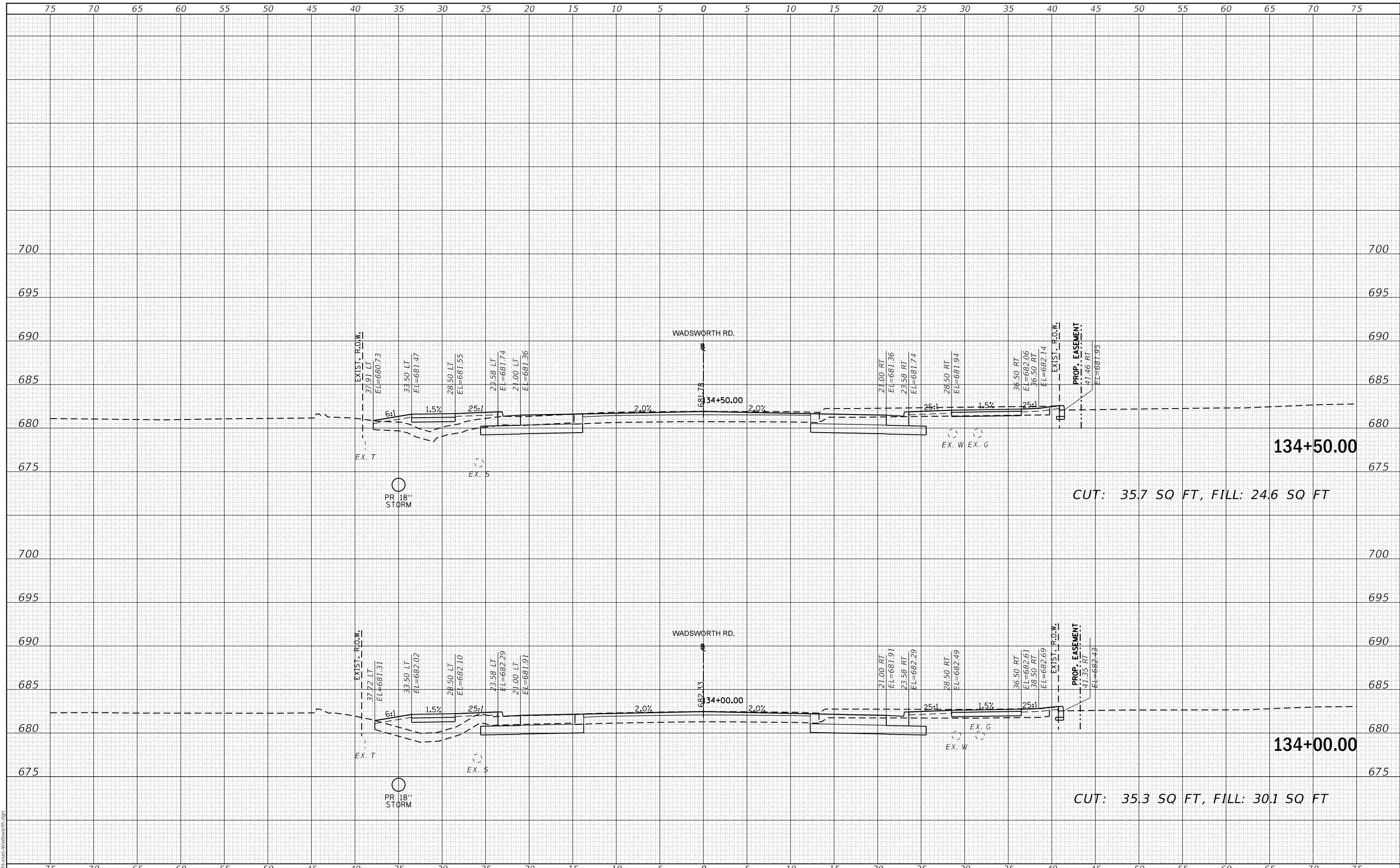
SCALE: SHEET 14 OF 32 SHEETS STA. 133+00.00 TO STA. 133+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	199
				CONTRACT NO. 61K05
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS	

MODEL: Definit
FILE NAME: C:\path\ss-Wadsworth.dgn



USER NAME = PatelDe	DESIGNED - DTJ	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - TSJ	REVISED -
PLOT DATE = 10/30/2023	CHECKED - ALM	REVISED -
	DATE - 07/30/2021	REVISED -

**LAKE COUNTY
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS
WADSWORTH ROAD**

SCALE: SHEET 15 OF 32 SHEETS STA. 134+00.00 TO STA. 134+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1209	13-00055-06-WR	LAKE	228	200
CONTRACT NO. 61K05				
ILLINOIS		FED. AID PROJECT		