04-28-2017 LETTING ITEM 144

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	1
FED. ROAD DIST. NO. _	ILLINOIS	CONTRACT NO. 61D75		

*1318 & 2562

INDEX OF SHEETS
SEE SHEET 2 FOR INDEX OF SHEETS

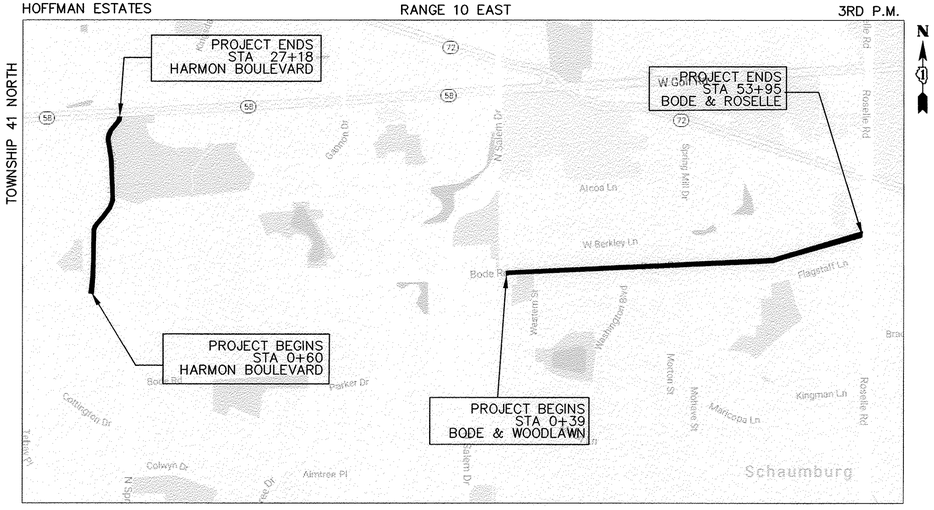
DISTRICT 1 DETAILS
SEE SHEET 2 FOR LIST OF DISTRICT 1 DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED FEDERAL AID HIGHWAY
FAU 1318 (BODE ROAD: WOODLAWN ST TO ROSELLE RD)
FAU 2562 (HARMON BLVD: BODE ROAD TO GOLF ROAD (IL 58))
PAVEMENT RESURFACING
SECTION 15-00095-00-RS
PROJECT NO. M-4003(798)
VILLAGE OF HOFFMAN ESTATES
COOK COUNTY
C-91-424-16

LOCATION OF SECTION INDICATED THUS: – ■

HOFFMAN ESTATES — RANGE 10 EAST — 3RD P.M.

TOWNSHIP 41 NORTH



LOCATION MAP
(NOT TO SCALE)

PROJECT LENGTH

BODE ROAD:
GROSS LENGTH = 5,356 FT (1.014 MILES)
NET LENGTH = 5,356 FT (1.014 MILES)
HARMON BOULEVARD:
GROSS LENGTH = 2,658 FT (0.503 MILES)
NET LENGTH = 2,658 FT (0.503 MILES)

TRAFFIC DATA

ADT	BODE	5,700 VPD (2014)
	HARMON	2,200 VPD (2014)

BODE ROAD AND HARMON BLVD DESIGN INFORMATION

DES. DESIGNATION:	POSTED SPEED	DESIGN SPEED
FAU 1318 (BODE ROAD) – MAJOR COLLECTOR	25 MPH	25 MPH
FAU 2562 (HARMON BOULEVARD) – MAJOR COLLECTOR	25 MPH	25 MPH

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 :: (773) 775-4009

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

1-800-892-0123
OR 811

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved January 30, 2017 DATE
Village of Hoffman Estates, Village Engineer

Passed FEBRUARY 6, 2017 DATE
CHRISTOPHER HOLT
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review February 6 2017 DATE
Regional Engineer

JOSEPH P. ATTANASEO
062-060315
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
DATE: 01/30/2017
SEAL EXPIRES: 11/31/2017

PROJECT ENGINEER: JOSEPH P. ATTANASEO

CONTRACT NO. 61D75

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONSULTANT ENGINEER: JOSEPH P. ATTANASEO, P.E. CIORBA GROUP, INC
PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406 SCHAUMBURG, IL

INDEX OF SHEETS

DISTRICT ONE DETAILS

BD–08	FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD–32	BUTT JOINTS AND HMA TAPER
TC–10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC–13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC–14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC–16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TS–05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS–07	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING

STATE STANDARDS (INCLUDED FOR REFERENCE ONLY)

000001–06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001–09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006–02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424016–03	MID–BLOCK CURB RAMPS FOR SIDEWALK
424026–01	ENTRANCE / ALLEY PEDESTRIAN CROSSING
424031–01	MEDIAN PEDESTRIAN CROSSING
602001–02	CATCH BASIN TYPE A
602011–02	CATCH BASIN TYPE C
602301–04	INLET – TYPE A
602401–03	MANHOLE – TYPE A
602601–04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701–02	MANHOLE STEPS
604001–04	FRAME AND LIDS, TYPE 1
604036–03	GRATE, TYPE 8
604006–05	FRAME AND GRATE, TYPE 3
701001–02	OFF–ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701301–04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311–03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS – DAY ONLY
701501–06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502–07	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701–10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801–06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901–06	TRAFFIC CONTROL DEVICES
720001–01	SIGN PANEL MOUNTING DETAILS
720006–04	SIGN PANEL ERECTION DETAILS
720011–01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001–01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001–05	TYPICAL PAVEMENT MARKINGS
782001–01	CURB REFLECTORS
886001–01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

1. ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, APRIL 1, 2016. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
2. ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER SHALL NOT ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS ADDITIONALLY, THE ENGINEER SHALL NOT ADVISE ON, OR ISSUE DIRECTIONS CONCERNING ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OF PROCEDURES, OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK.
4. THE LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK, INCLUDING MAKING ARRANGEMENTS FOR THE PROPER BRACING, AND OTHER REQUIRED PROTECTION, AS REQUIRED. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. FOR UNDERGROUND UTILITY LOCATIONS, CALL 48 HOURS BEFORE DIGGING, (EXCLUDING SATURDAY, SUNDAY & HOLIDAYS) J.U.L.I.E. 1–800–692–0123 OR 811.
6. THE ENGINEER AND/OR HIS/HER REPRESENTATIVE WILL BE PROVIDING CONSTRUCTION LAYOUT AND STAKING OF THE PROPOSED IMPROVEMENTS. IF CONTRACTOR'S OPERATIONS DAMAGE THE LAYOUT, THE VILLAGE MAY CHARGE A FEE, TO THE CONTRACTOR, TO COVER THE ADDITIONAL COSTS INCURRED BY THE VILLAGE FOR LAYOUT.
7. THE CONTRACTOR SHALL KEEP THE AREA OF CONSTRUCTION FREE OF DEBRIS AND OBJECTIONABLE MATERIALS DURING CONSTRUCTION OR THE VILLAGE RESERVES THE RIGHT TO REMOVE AND BACK CHARGE THE CONTRACTOR.
8. ALL SIDEWALKS WITHIN THE PROJECT LIMITS THAT ARE ADJACENT TO THE CURB SHALL BE REMOVED AND CONSTRUCTED ACCORDING TO PLAN DETAILS AND STANDARDS. CATALOG CUTS OF DETECTABLE WARNINGS MUST BE APPROVED BY THE ENGINEER AS CORRDINATED WITH THE VILLAGE BEFORE INSTALLATION.
9. THE CONTRACTOR SHALL PROTECT ALL SIDEWALKS AND CURB & GUTTER FROM DAMAGE AND VANDALISM.
10. THE CONTRACTOR SHALL VERIFY THE ELEVATION AND LOCATION OF EXISTING SEWERS PRIOR TO THE START OF CONSTRUCTION OF NEW SEWERS.
11. ALL CURB SHALL BE DEPRESSED AT DRIVEWAYS.
12. INLET FILTERS SHALL BE PLACED IN ALL DRAINAGE STRUCTURES WITHIN AND/OR ADJACENT TO PROJECT LIMITS BEFORE THE START OF ANY WORK AT THAT LOCATION. INLET FILTERS SHALL REMAIN IN PLACE AND BE KEPT FREE FROM DEBRIS TO THE SATISFACTION OF THE ENGINEER UNTIL FINAL RESTORATION IS COMPLETE. THIS WORK SHALL BE PAID FOR AS INLET FILTERS
13. ALL REMOVED CASTINGS SHALL BE DELIVERED TO THE VILLAGE YARD BY THE CONTRACTOR.
14. CONTRACTOR MAY OBTAIN A VILLAGE WATER METER FOR FREE WATER USAGE ON THIS JOB. THE WATER METER CAN BE OBTAINED BY VILLAGE PUBLIC WORKS DEPARTMENT FOR A $750 FEE DEPOSIT.
15. THE CONTRACTOR SHALL FIELD CHECK EACH EXISTING STRUCTURE TO BE REPLACED AND DETERMINE THE NUMBER OF PIPES, THEIR SIZE, AND ELEVATION PRIOR TO ORDERING EACH STRUCTURE.
16. CURB & GUTTER, SIDEWALK, AND DRIVEWAY WORK SHALL BE STAGED TO ALLOW FULL TIME ACCESS TO ALL SCHOOLS AND BUSINESSES. LOSS OF SIDEWALK AND DRIVEWAY ACCESS SHALL BE LIMITED TO ONE SIDE OF THE STREET AT A TIME.
17. RESIDENTIAL DRIVEWAY ACCESS SHALL BE RESTORED WITHIN 2 WEEKS OF LOSS OF ACCESS.
18. CONTRACTOR TO REQUEST FIELD BOOK FROM THE ENGINEER FOR LOCAL BENCHMARK INFORMATION FOR SIDEWALK DETAILS.
19. PROPOSED STOP BARS ON ALL SIDEROADS SHALL BE INSTALLED PER IDOT DISTRICT 1 DETAIL TC–13. (4' IN ADVANCE AND PARRALLEL TO CROSSWALK).

LEGEND

EXISTING	PROPOSED	
		SANITARY MANHOLE
		STORM MANHOLE
		CATCH BASIN
		STORM INLET
		VALVE AND VAULT
		FIRE HYDRANT
		STREET LIGHT
		STREET SIGN
		STORM SEWER
		SANITARY SEWER
		WATER MAIN
		RIGHT–OF–WAY
		CURB & GUTTER
		SIDEWALK
		DRIVEWAY
		POWER POLE
		DETECTABLE WARNINGS
		STREET LIGHT CABLE
G		NICOR GAS VALVE
A		AT&T HANDHOLE
AT&T		AT&T BURIED UTILITY
TV		COMCAST BURIED UTILITY
ELC		COMED BURIED UTILITY
GAS–GAS		NICOR BURIED UTILITY
OH		OVERHEAD UTILITY

RCN	STRUCTURES TO BE RECONSTRUCTED
ADJ	STRUCTURES TO BE ADJUSTED
G	NEW GRATE
F&G	NEW FRAME AND GRATE
F&L	NEW FRAME AND LID
C	EXISTING CONCRETE APRON
C/A	EXISTING CONCRETE & ASPHALT APRON
A	EXISTING ASPHALT APRON

	TREES TO BE ROOT PRUNED
	TREE
	SIDEWALK REMOVAL
	RESURFACING AREA
	HOT–MIX ASPHALT SURFACE REMOVAL – BUTT JOINT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
INDEX OF SHEETS, GENERAL NOTES, AND LEGEND

SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15–00095–00–RS	COOK	65	2
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BODE ROAD 0005	HARMON BOULEVARD 0005
20101200	TREE ROOT PRUNING	EACH	76	75	1
20400800	FURNISHED EXCAVATION	CU YD	100	100	
20800150	TRENCH BACKFILL	CU YD	140	140	
21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	5,377	4,241	1,136
25000100	SEEDING, CLASS 1	ACRE	1.25	1.00	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	100	79	21
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	100	79	21
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	100	79	21
25100630	EROSION CONTROL BLANKET	SQ YD	5,377	4,241	1,136
28000510	INLET FILTERS	EACH	108	84	24
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	285	285	
35501323	HOT-MIX ASPHALT BASE COURSE, 9 3/4"	SQ YD	156	156	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	40	40	
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1,087	1,087	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BODE ROAD 0005	HARMON BOULEVARD 0005
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	201	153	48
40600990	TEMPORARY RAMP	SQ YD	300	207	93
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,331		1,331
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	3,357	2,174	1,183
42400800	DETECTABLE WARNINGS	SQ FT	640	440	200
44000100	PAVEMENT REMOVAL	SQ YD	317	317	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	26,620	26,620	
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	10,824		10,824
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,878	1,282	596
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,697	2,698	999
44000600	SIDEWALK REMOVAL	SQ FT	53,850	40,865	12,985
44003100	MEDIAN REMOVAL	SQ FT	1,404	1,404	
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	220	220	
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	760	760	
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	1,195	1,195	

* DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

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Clorba Group, Inc.
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5007 North Cumberland Avenue, Suite 402
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Email chicago@clorba.com

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BOULEVARD PAVEMENT RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	3
* 1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	M-4003 (798)	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BODE ROAD 0005	HARMON BOULEVARD 0005
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	110	110	
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	152	152	
550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	29	29	
550A2410	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 42"	FOOT	219	219	
55100400	STORM SEWER REMOVAL 10"	FOOT	125	125	
55100500	STORM SEWER REMOVAL 12"	FOOT	155	155	
55100700	STORM SEWER REMOVAL 15"	FOOT	85	85	
55100900	STORM SEWER REMOVAL 18"	FOOT	87	87	
55101800	STORM SEWER REMOVAL 42"	FOOT	218	218	
60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1	
60207105	CATCH BASINS, TYPE C, TYPE 3 FRAME AND GRATE	EACH	1	1	
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BODE ROAD 0005	HARMON BOULEVARD 0005
60224445	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60224447	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2	2	
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	3	3	
60255900	MANHOLES TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	24	17	7
60258300	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	2	1	1
60260500	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	34	22	12
60500040	REMOVING MANHOLES	EACH	5	5	
60500050	REMOVING CATCH BASINS	EACH	1	1	
60500060	REMOVING INLETS	EACH	3	3	
67100100	MOBILIZATION	LSUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	0.5	0.5
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1	0.5	0.5
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	0.5	0.5
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	0.5	0.5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,330	8,260	1,070

* DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BOULEVARD PAVEMENT RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	4
* 1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	M-4003 (798)	

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BODE ROAD 0005	HARMON BOULEVARD 0005
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4,703	4,149	554
*	72000100	SIGN PANEL - TYPE 1	SQ FT	119	119	
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	11	11	
*	72900100	METAL POST - TYPE A	FOOT	387	387	
*	78006100	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	729	729	
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	212	212	
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	12,005	11,915	90
*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	2,465	2,095	370
*	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	85	85	
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	90	90	
*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	415	300	115
*	78200020	CURB REFLECTORS	EACH	12	12	
△ *	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BODE ROAD 0005	HARMON BOULEVARD 0005
△ *	88600100	DETECTOR LOOP, TYPE I		198	198	
△ *	88600600	DETECTOR LOOP REPLACEMENT	FOOT	114		114
△ *	89502376	REBUILD EXISTING HANDHOLE	EACH	1	1	
△	X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	1	1	
	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	328	316	12
△	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	37		37
△	X4023000	TEMPORARY ACCESS (ROAD)	EACH	6		6
△	X4230710	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH, SPECIAL	SQ YD	1,519	1,014	505
△	X4230800	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH, SPECIAL	SQ YD	130	130	
△	X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	55,115	41,940	13,175
△	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	2	2	
△	X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	3,846	2,902	944
△	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	600	300	300
△	Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	143	53	90
△	Z0004518	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 5"	SQ YD	86	86	

* DENOTES SPECIALITY ITEM
△ DENOTES SPECIAL PROVISION

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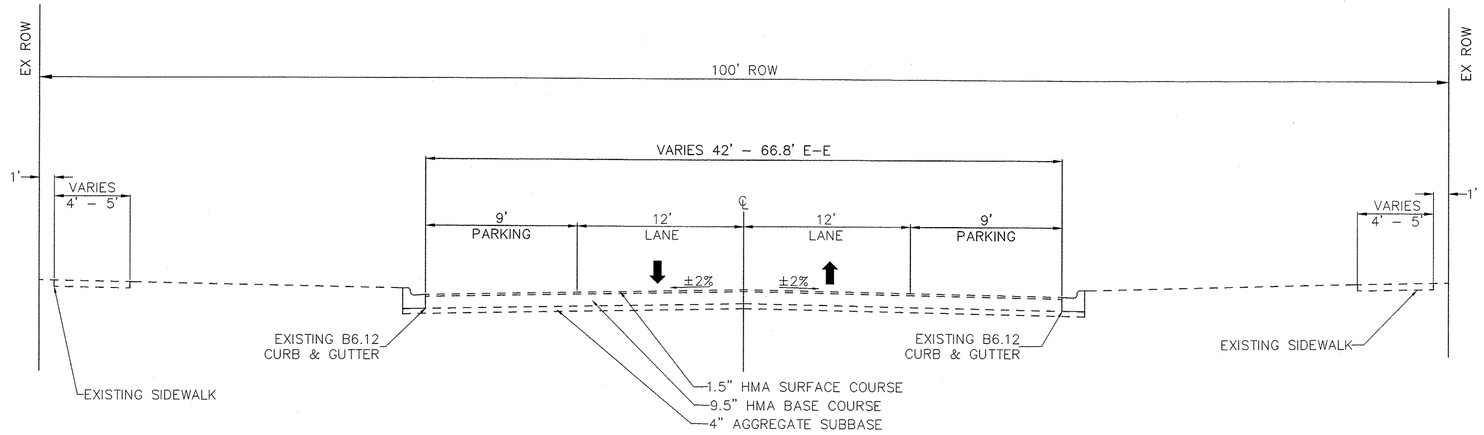
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BOULEVARD PAVEMENT RESURFACING
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

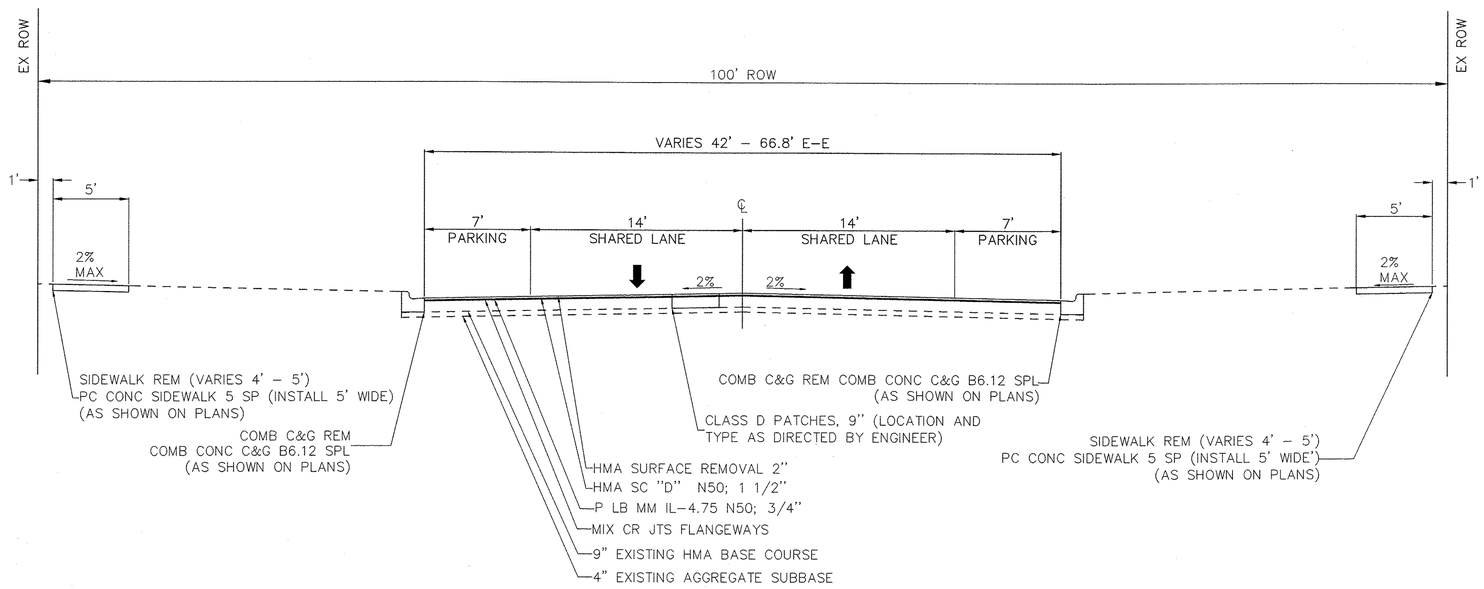
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	5
* 1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	M-4003 (798)	



EXISTING - BODE ROAD
STA 0+39 - STA 53+95

HOT–MIX ASPHALT MIXTURE REQUIREMENTS – BODE ROAD & HARMON BLVD			
MIXTURE TYPE	BODE ROAD	HARMON BLVD	AIR VOIDS @ NDES
RESURFACING			
HOT–MIX ASPHALT SURFACE COURSE, MIX "D", N50	1.50"	2.0"	4% @ 50 GYR.
HOT–MIX ASPHALT BINDER COURSE, IL–19.0, N50	–	2.25"	4% @ 50 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL–4.75, N50	0.75"	-	3.5% @ 50 GYR.
HMA DRIVEWAY 5" (SPECIAL)			
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm)	3.0"	–	4% @ 50 GYR.
HOT–MIX ASPHALT BINDER COURSE, IL–19.0, N50	2.0"	-	4% @ 50 GYR.
HMA DRIVEWAY 3" (SPECIAL)			
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5 mm)	3.0"	3.0"	4% @ 50 GYR.
CLASS D PATCHES			
CLASS D PATCH (HMA BINDER IL–19 mm)	9.0"	–	4% @ 70 GYR.
HMA BASE COURSE			
HMA BASE COURSE (HMA BINDER IL–19 mm)	9 3/4"	–	4% @ 50 GYR.

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76–22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64–22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



PROPOSED - BODE ROAD
STA 0+39 - STA 53+95

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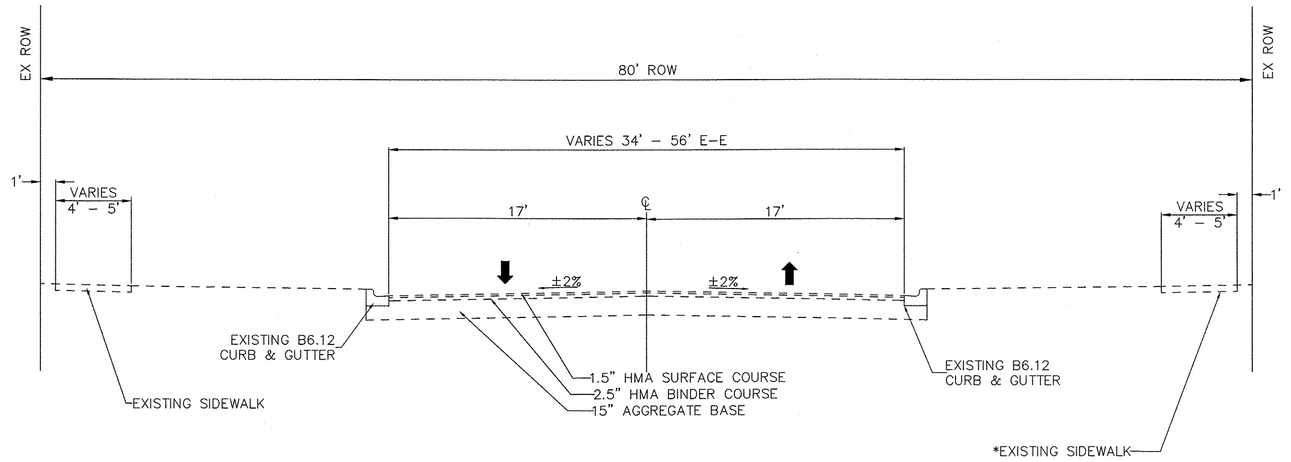
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
TYPICAL SECTION - BODE ROAD

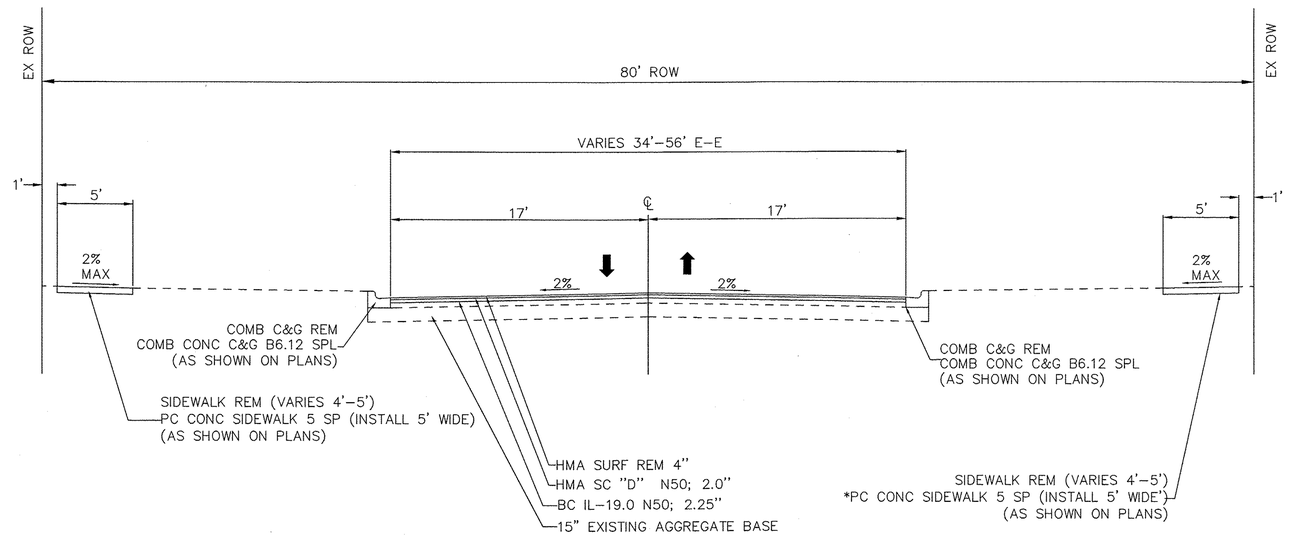
SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15–00095–00–RS	COOK	65	6
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		



EXISTING - HARMON BOULEVARD
STA 0+60 - STA 27+18

* – SIDEWALK OMITTED FROM STA 14+70 TO STA 24+85



PROPOSED - HARMON BOULEVARD
STA 0+60 - STA 27+18

* – SIDEWALK OMITTED FROM STA 14+70 TO STA 24+85

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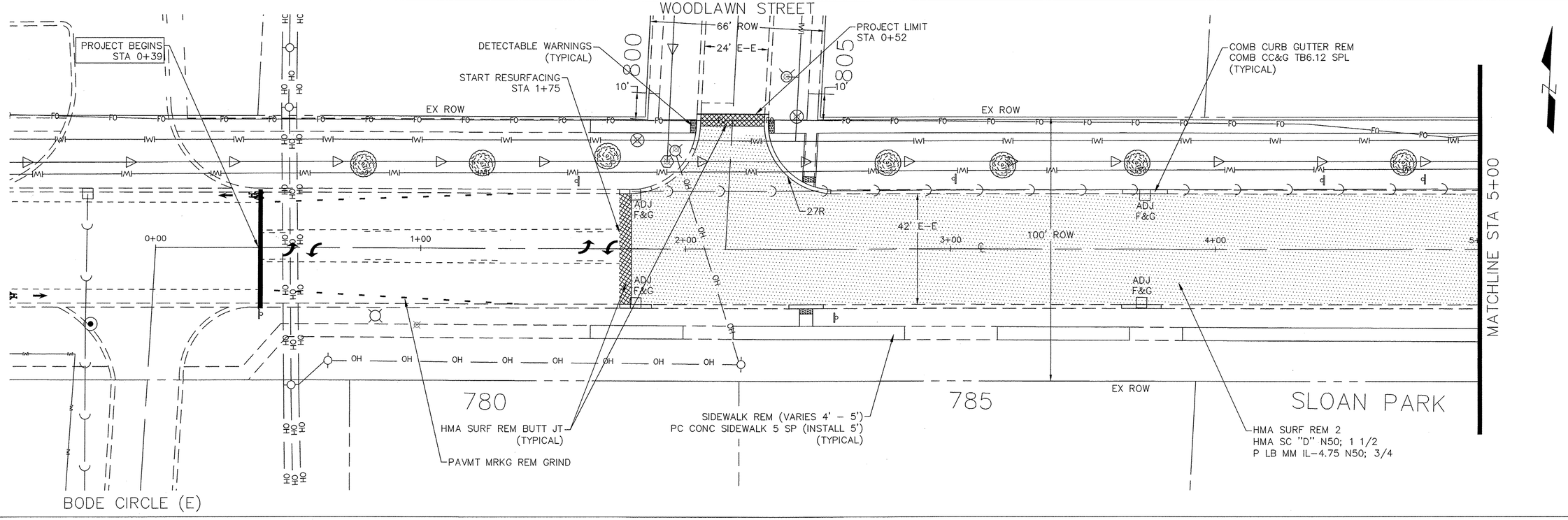
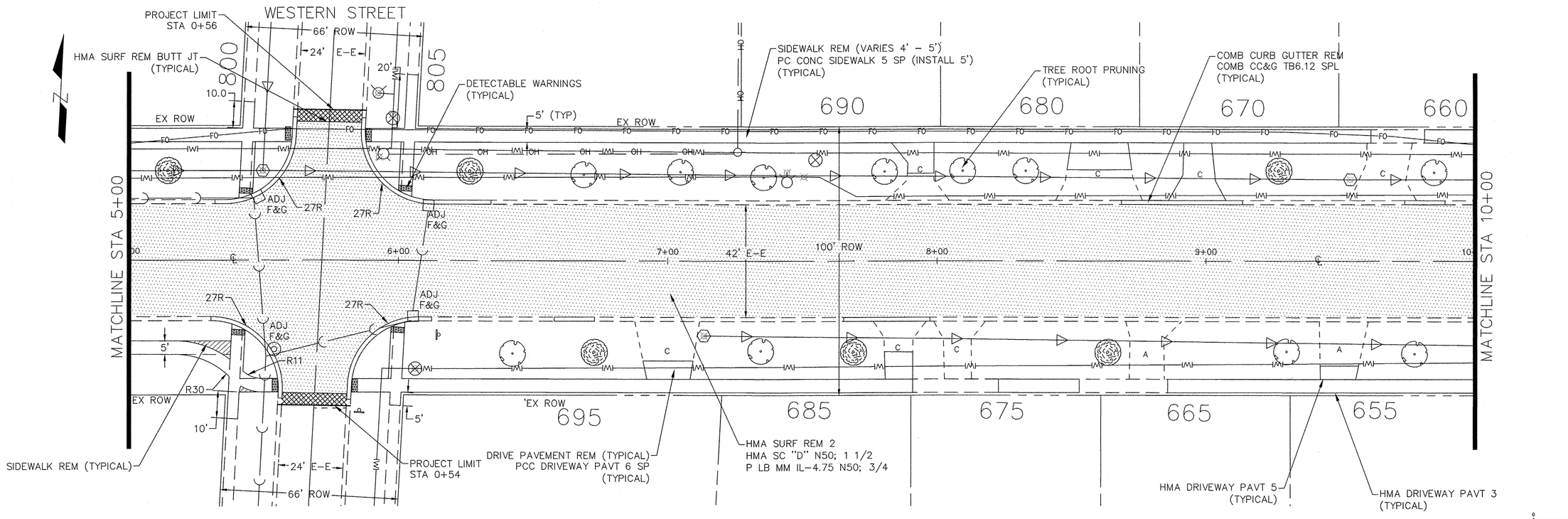
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
TYPICAL SECTION - HARMON BOULEVARD

SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	7
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		





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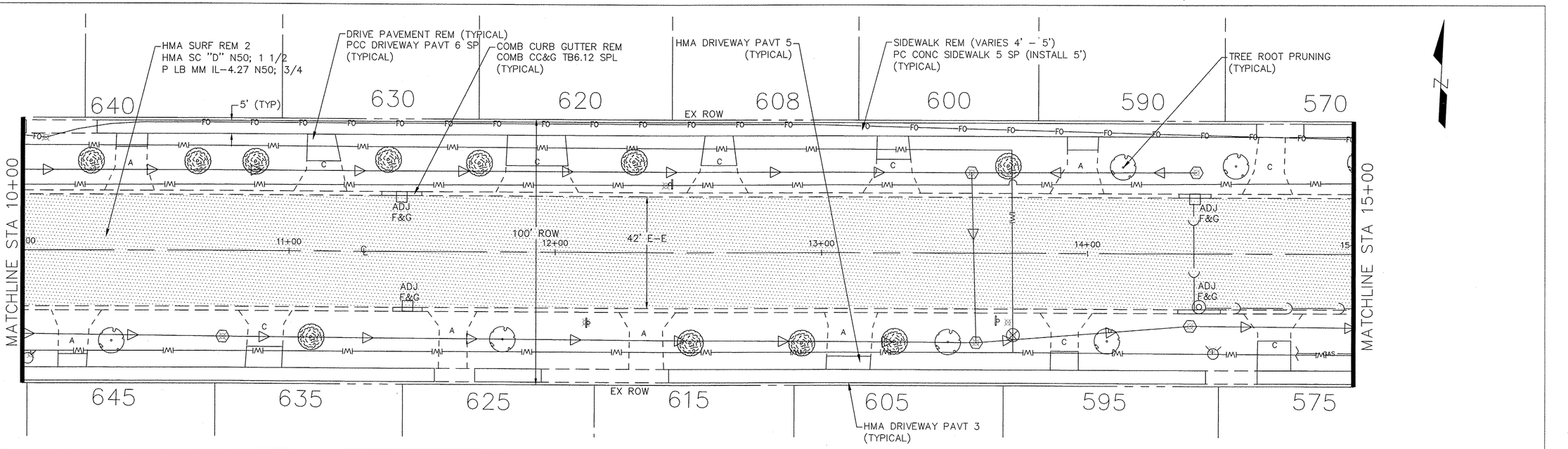
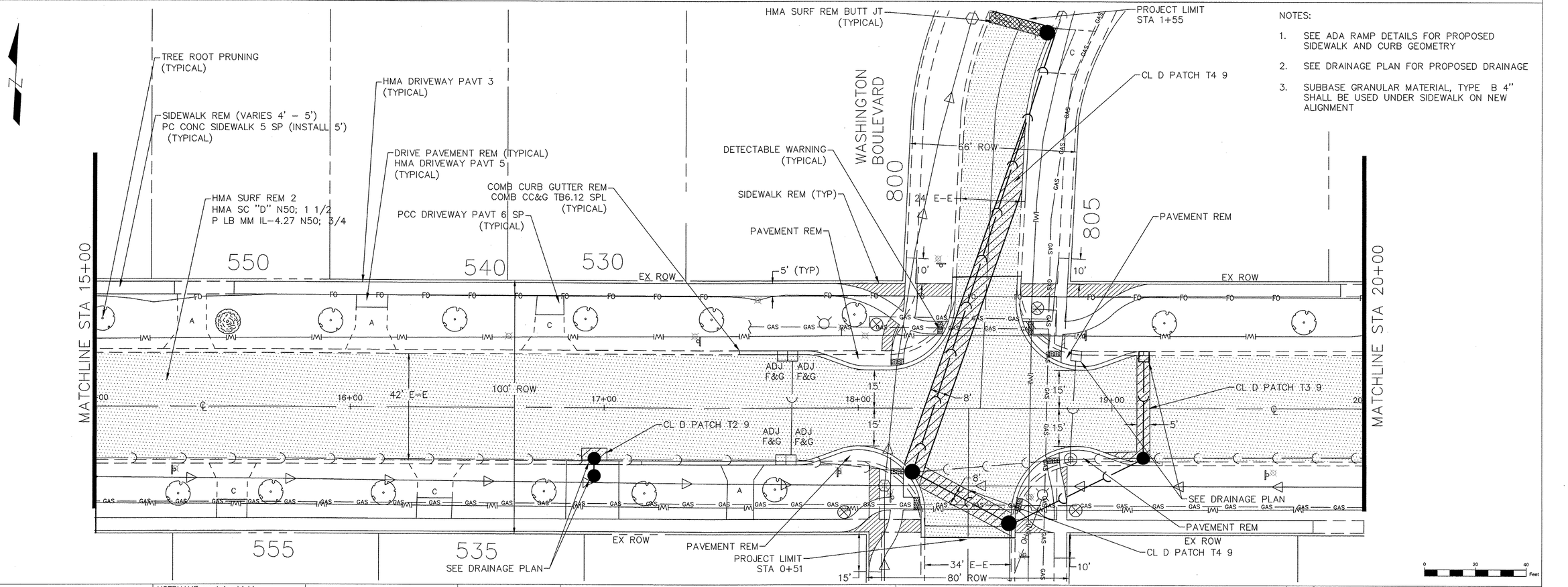
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 1 OF 6 SHEETS | STA. 0+00 TO STA. 10+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	8
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		





NOTES:

1. SEE ADA RAMP DETAILS FOR PROPOSED SIDEWALK AND CURB GEOMETRY
2. SEE DRAINAGE PLAN FOR PROPOSED DRAINAGE
3. SUBBASE GRANULAR MATERIAL, TYPE B 4" SHALL BE USED UNDER SIDEWALK ON NEW ALIGNMENT

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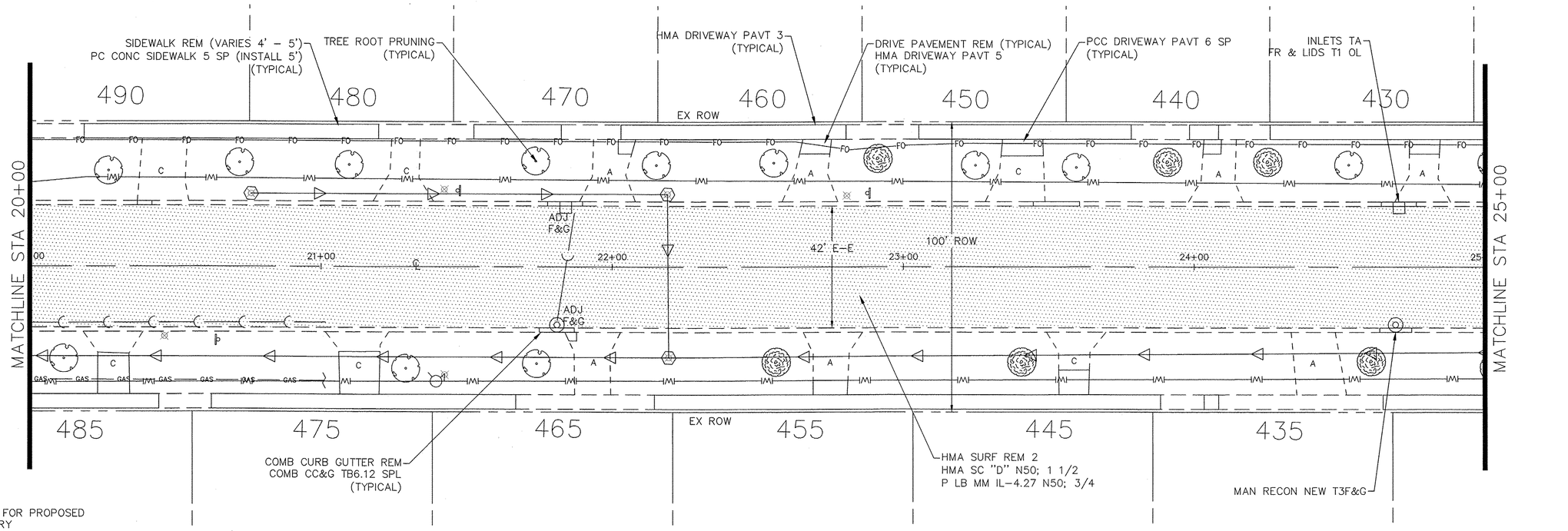
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 2 OF 6 SHEETS | STA. 10+00 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	9
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



NOTES:

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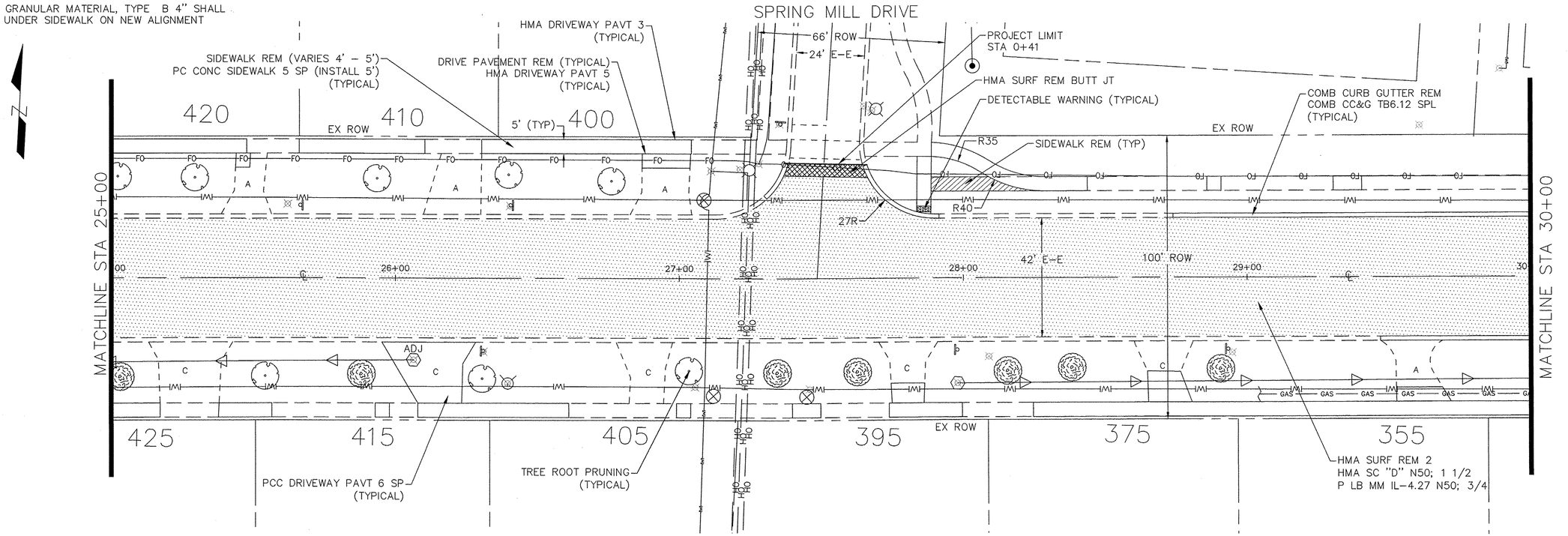

0 20 40 Feet

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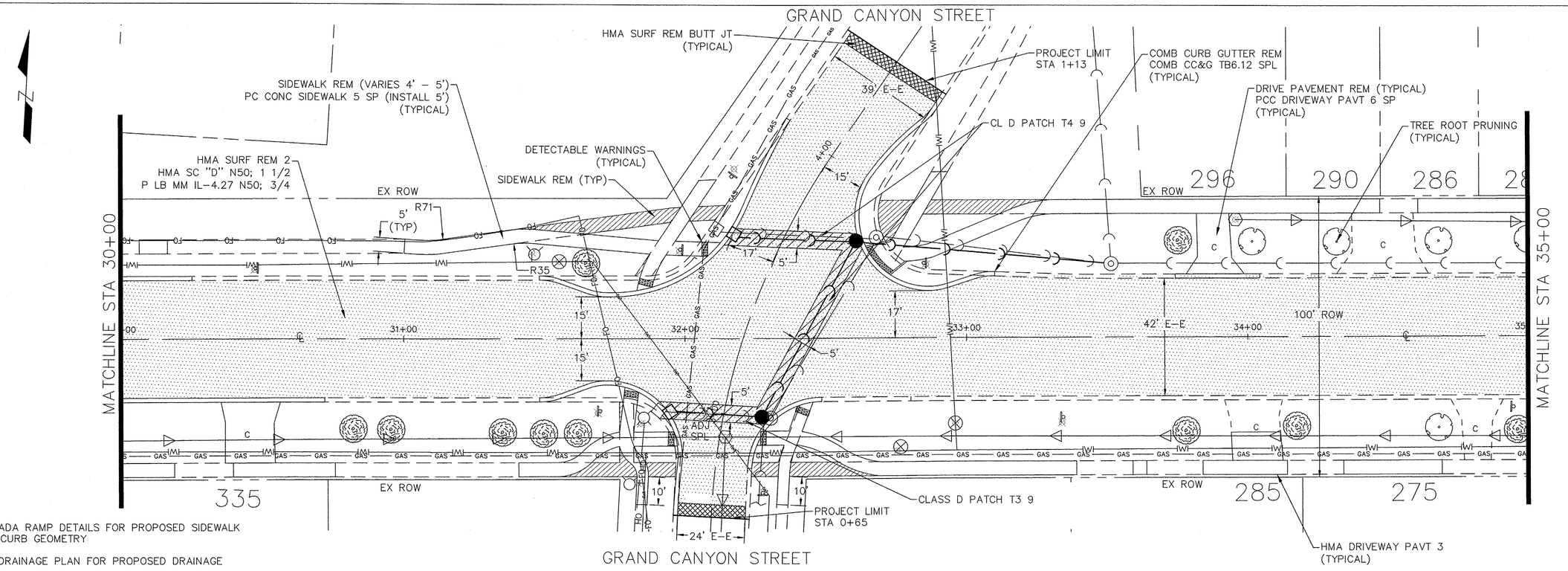
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 3 OF 6 SHEETS | STA. 20+00 TO STA. 30+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	10
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



NOTES:

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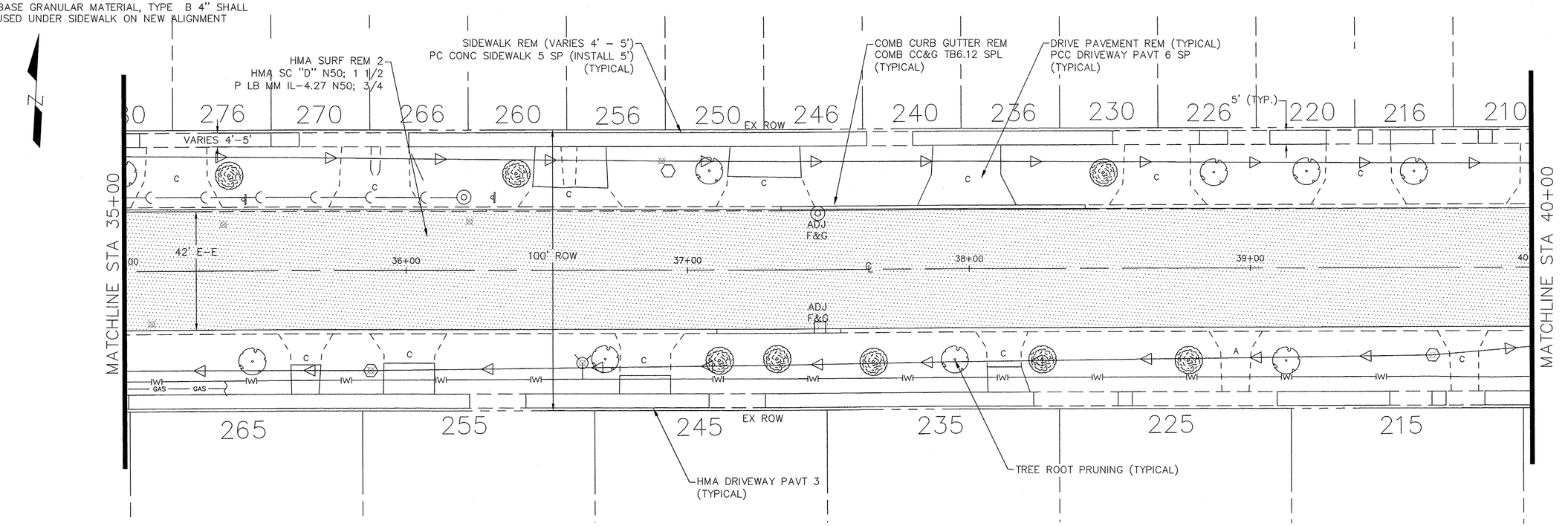

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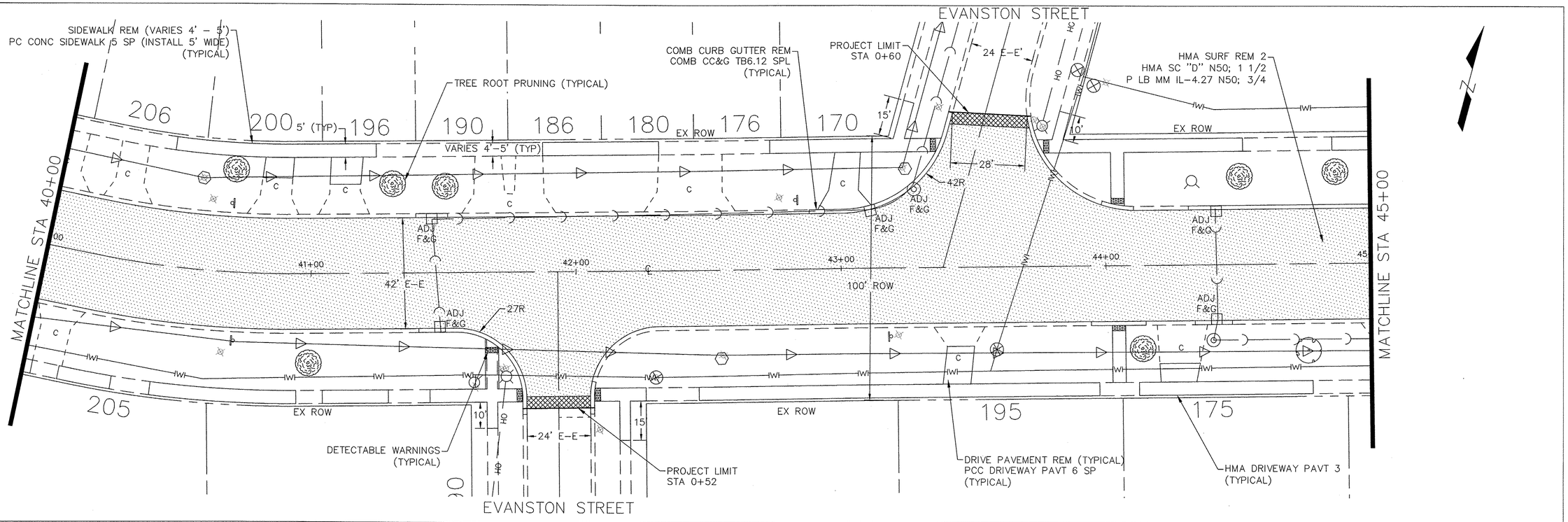
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 4 OF 6 SHEETS | STA. 30+00 TO STA. 40+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15–00095–00–RS	COOK	65	11
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		



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STATE OF ILLINOIS
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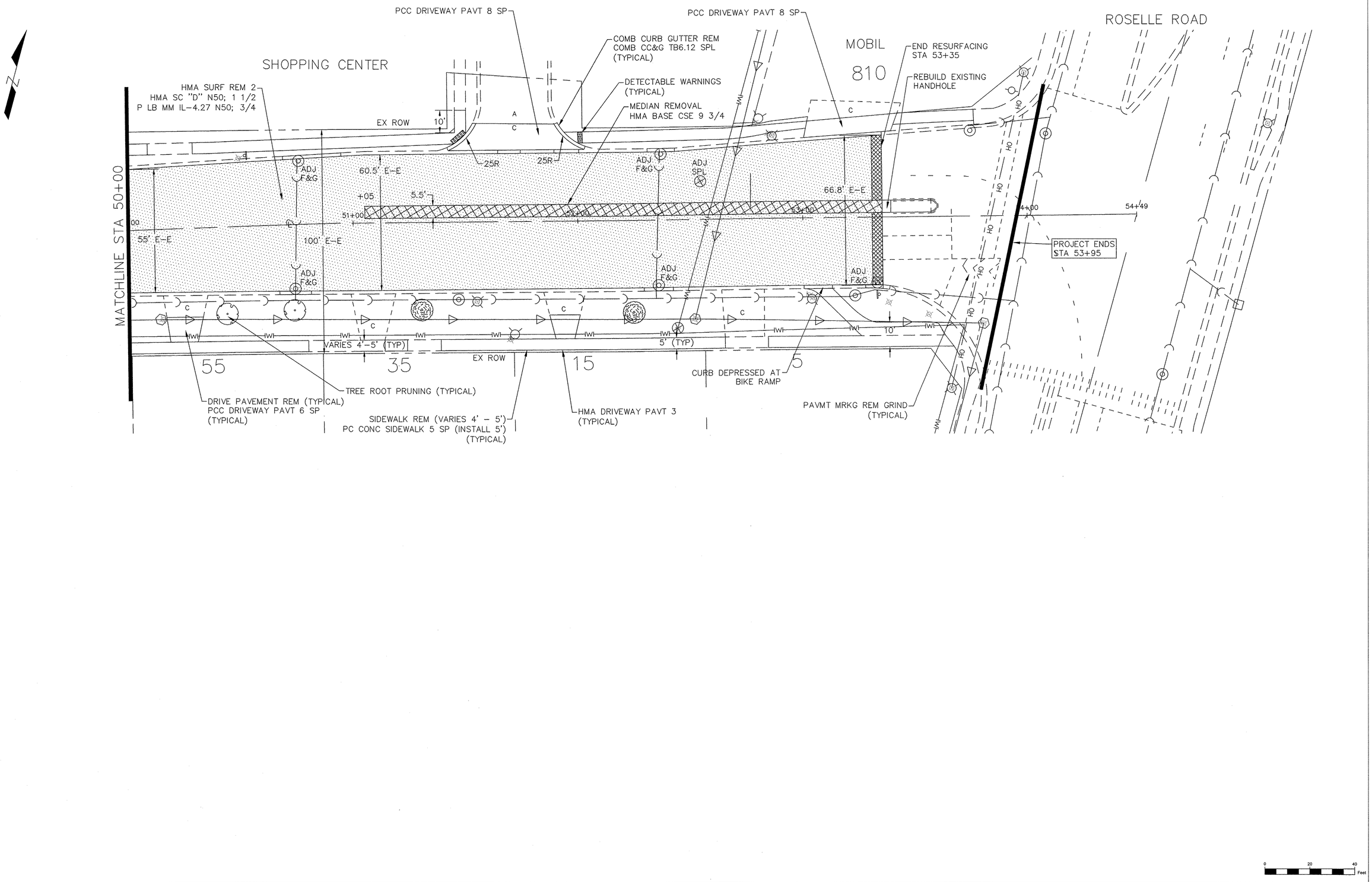
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 5 OF 6 SHEETS | STA. 40+00 TO STA. 50+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	12
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



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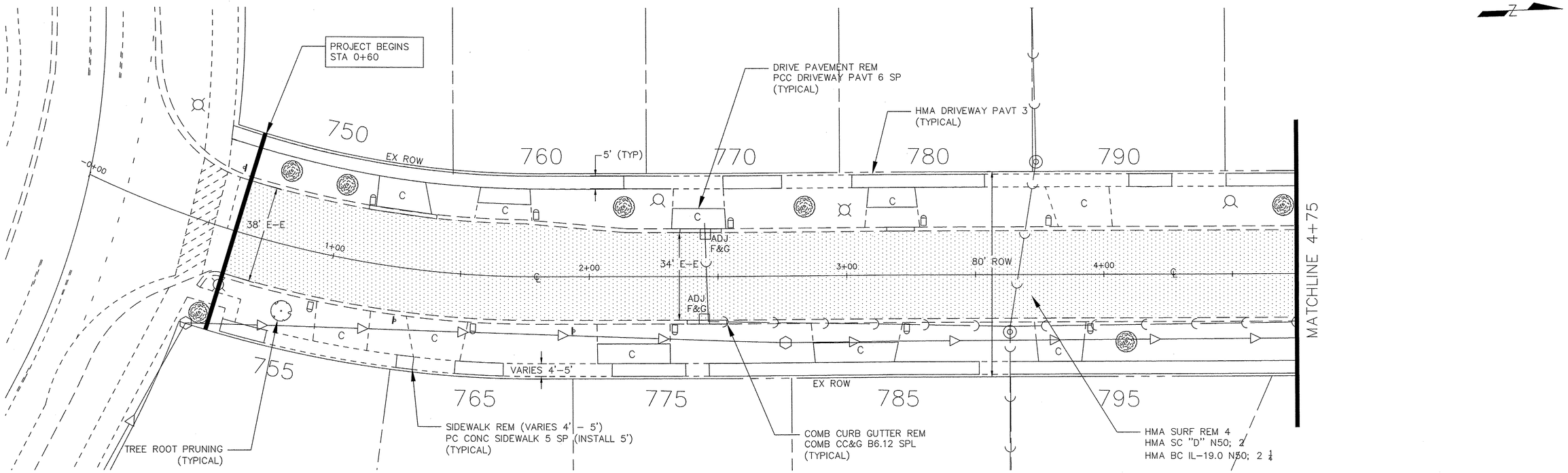
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 6 OF 6 SHEETS | STA. 50+00 TO STA. 54+49

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	13
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



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BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - HARMON BOULEVARD

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 0+00 TO STA. 10+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	14
	*1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

SWEETFLOWER DR.

PROJECT LIMIT 0+53

24' E-E

HMA SURF REM BUTT JT

DETECTABLE WARNINGS (TYPICAL)

COMB CURB GUTTER REM
COMB CC&G B6.12 SPL (TYPICAL)

SIDEWALK REM (VARIES 4' – 5')
PC CONC SIDEWALK 5 SP (INSTALL 5')
(TYPICAL)

5' (TYP)

EX ROW

ADJ F&G

37R

33R

MATCHLINE 10+00

MATCHLINE 15+00

34' E-E

11+00

12+00

13+00

14+00

80' ROW

900

915

925

935

945

955

965

970

980

VARIES 4'–5'

HMA SURF REM 4
HMA SC "D" N50; 2
HMA BC IL–19.0 N50; 2 ¼

DRIVE PAVEMENT REM
PCC DRIVEWAY PAVT 6 SP
(TYPICAL)

HMA DRIVEWAY PAVT 3
(TYPICAL)

ADJ

BULRUSH DR.

PROJECT LIMIT 0+61

1640

38R

MATCHLINE 20+50

16+00

17+00

18+00

19+00

20+00

990

1000

1010

1020

1030

VARIES 4'–5'

COMB CURB GUTTER REM
COMB CC&G B6.12 SPL
(TYPICAL)

HMA SURF REM 4
HMA SC "D" N50; 2
HMA BC IL–19.0 N50; 2 ¼

0 20 40 Feet

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BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - HARMON BOULEVARD

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 10+00 TO STA. 20+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	15
*1318 & 2562		CONTRACT NO. 61D75		
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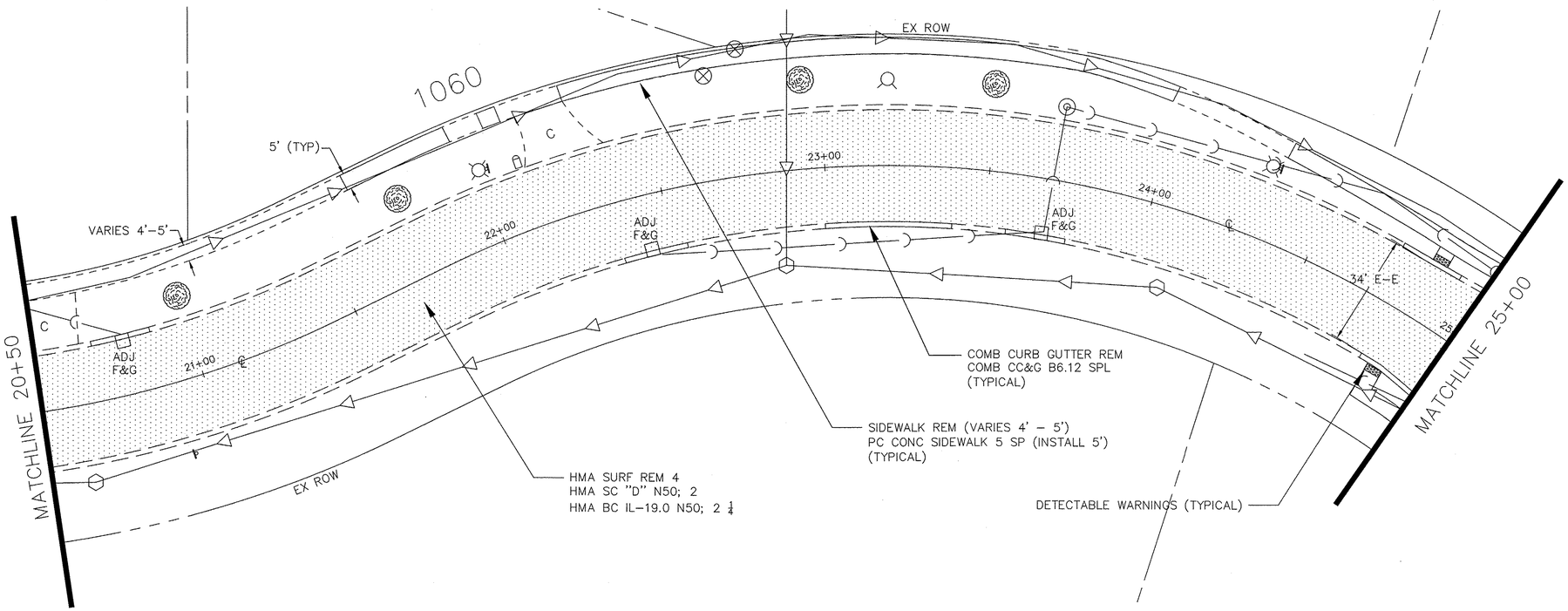

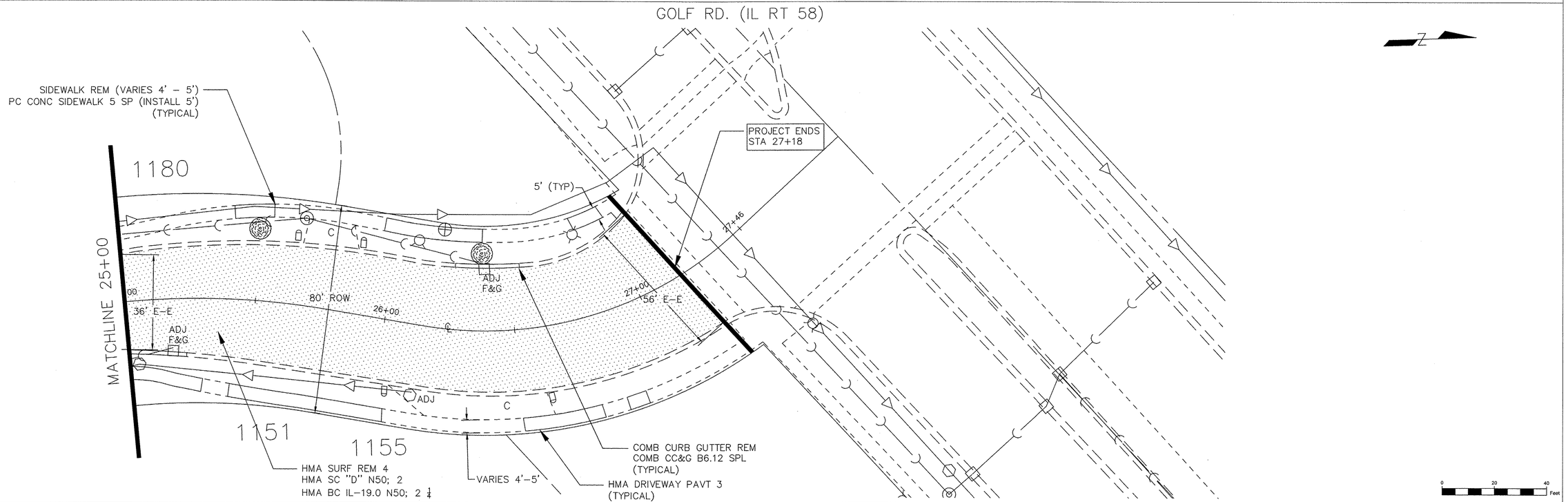

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BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ROADWAY PLAN - HARMON BOULEVARD

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 20+50 TO STA. 27+18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15–00095–00–RS	COOK	65	16
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		

REMOV MANHOLES

STA 18+74L
MAN TA 7 DIA T1F OL
RIM 794.81
N INV 788.91 42" CMP
W INV 791.59 10" DI
S INV 789.01 42" RCP

STORM SEWER REM 42 (178 LF) (0.5%)
SS RG CL A 1 42 (179 LF)

UNDERGROUND FIBER OPTIC (HOFFMAN ESTATES)

UNDERGROUND WATER (HOFFMAN ESTATES)

STORM SEWER REM 18 (58 LF)

REMOV INLETS

STA 16+96R
MAN TA 4 DIA T1F CL
RIM 795.34
E INV = 791.67 18" PVC
W INV = 791.69 18" PVC
S INV = 792.81 12" RCP

UNDERGROUND GASLINE (NICOR)

STA 19+12L
INLETS TA T3F&G
RIM 795.63
S INV 792.60 12" RCP

EX ROW

EX ROW

STORM SEWER REM 10 (36 LF)

SS RG CL A 1 12 (35 LF) (0.5%)

STA 19+12R
CB TA 4 DIA T3F&G
RIM 795.79
N INV 792.42 12" RCP
E INV 792.23 18" RCP
SW INV 792.12 18" RCP

15+00 16+00 17+00 18+00 19+00 20+00 21+0

STORM SEWER REM 18 (5 LF)

STORM SEW CL A 1 12 (5 LF) (0.5%)

EX ROW

EX ROW

SS RG CL A 1 18 (29 LF) (0.5%)

STA 16+96R
CB TC T8G
RIM 795.86
N INV = 792.83 12" RCP

STA 18+21R
MAN TA 7 DIA T3F&G
RIM 795.37
N INV 789.90 42" RCP
W INV 790.42 18" PVC
SE INV 790.00 42" RCP

STORM SEWER REM 18 (24 LF)

REMOV MANHOLES

REMOV MANHOLES

STA 18+60R
MAN TA 7 DIA T3F&G
RIM 795.60
NW INV 790.20 42" RCP
S INV 790.20 42" CMP
NE INV 791.98 18" RCP

SS RG CL A 1 42 (40 LF) (0.5%)
TRENCH BACKFILL = 8.2 CU YD

STORM SEWER REM 42 (40 LF)

REMOV MANHOLES

WASHINGTON BOULEVARD

UNDERGROUND GASLINE (NICOR)

0 20 40 Feet

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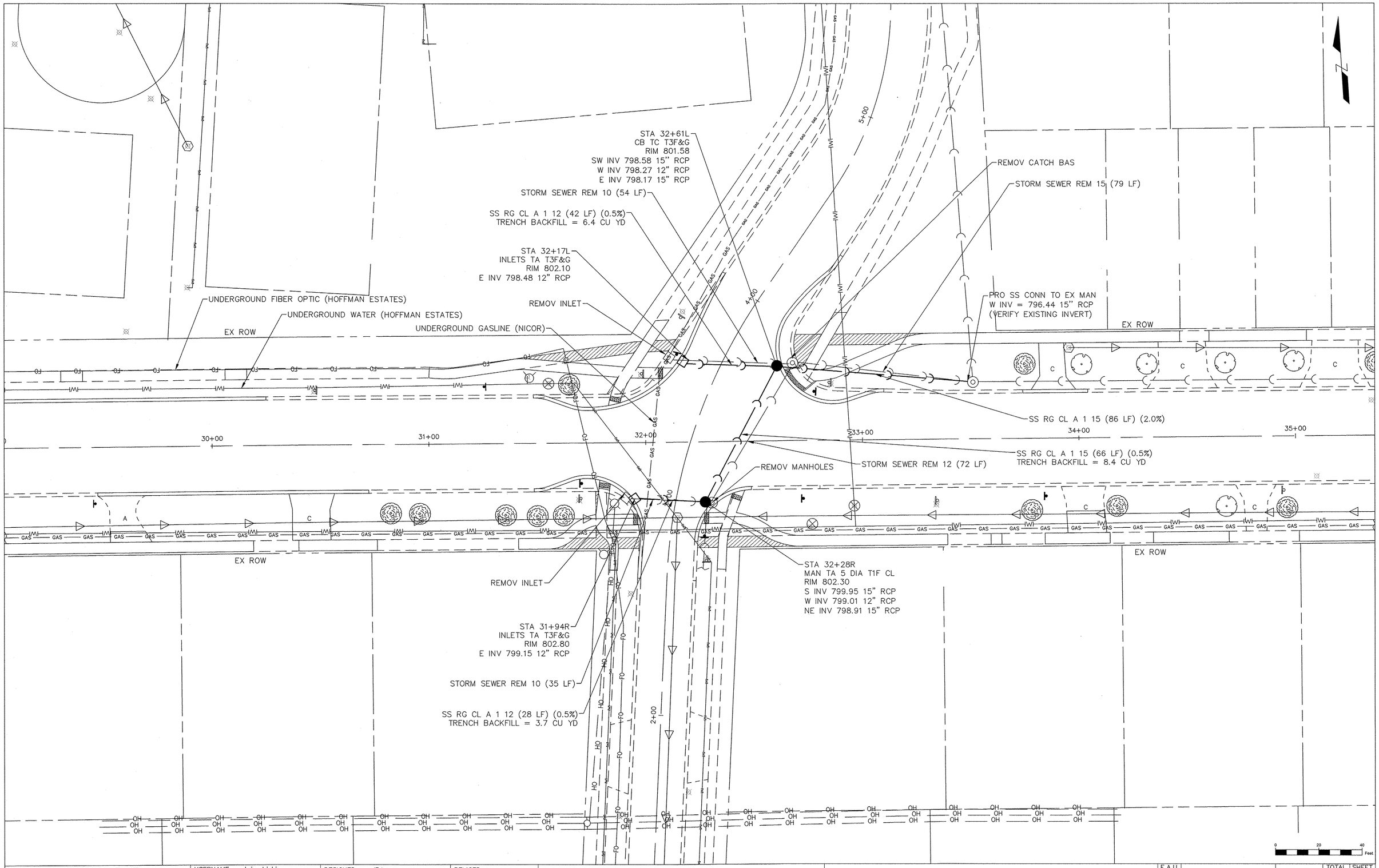
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
DRAINAGE PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. 14+70 TO STA. 21+05

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	17
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



ENGINEERING CONSULTANT
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CONSULTING ENGINEERS
6507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014
Email chicago@ciorba.com

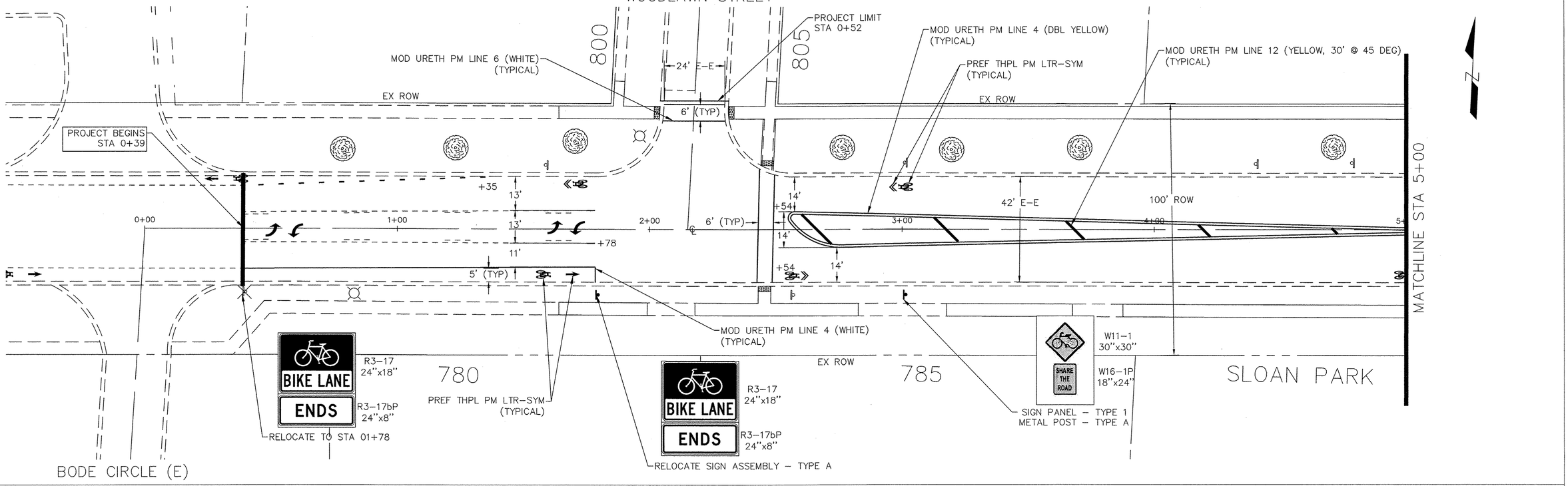
USERNAME = dwierzbicki	DESIGNED – JPA	REVISED –
	DRAWN – DW	REVISED –
PLOT SCALE =	CHECKED – DJO	REVISED –
PLOT DATE =	DATE – 01/30/2017	REVISED –

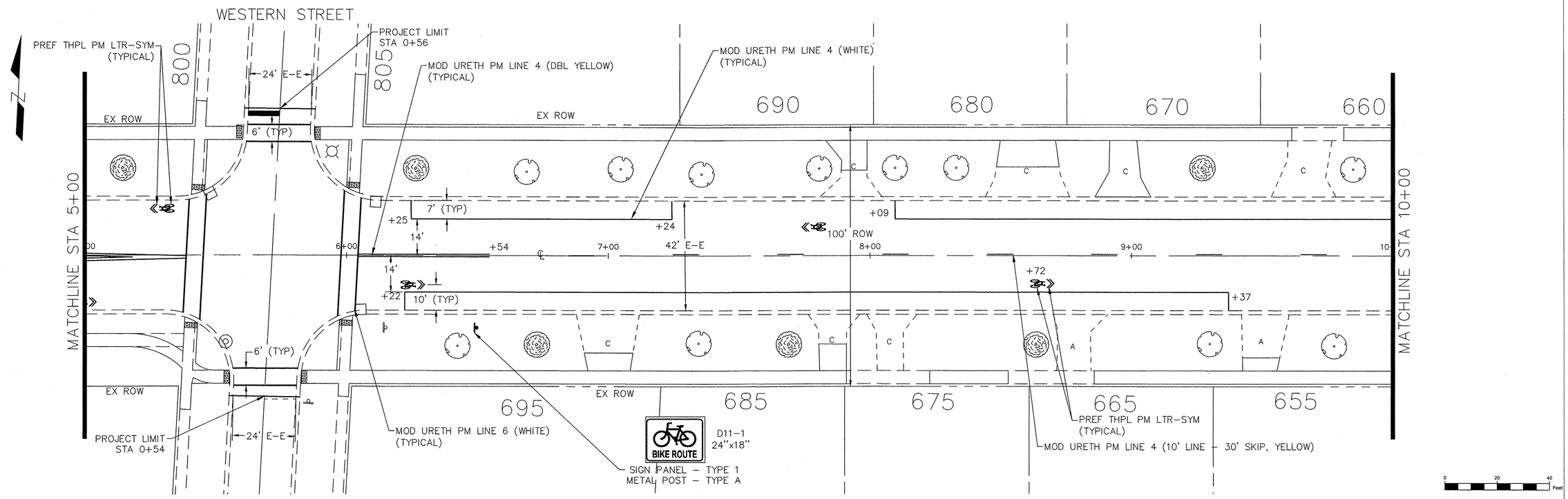
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
DRAINAGE PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. 31+05 TO STA. 35+40

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	18
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		





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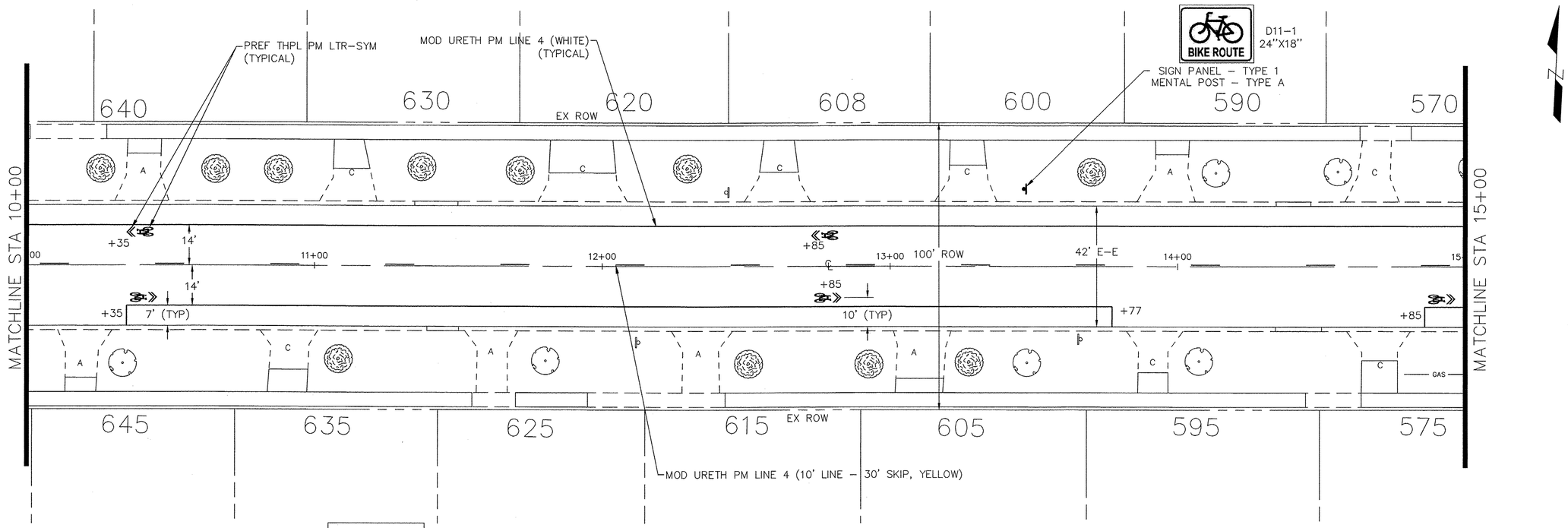
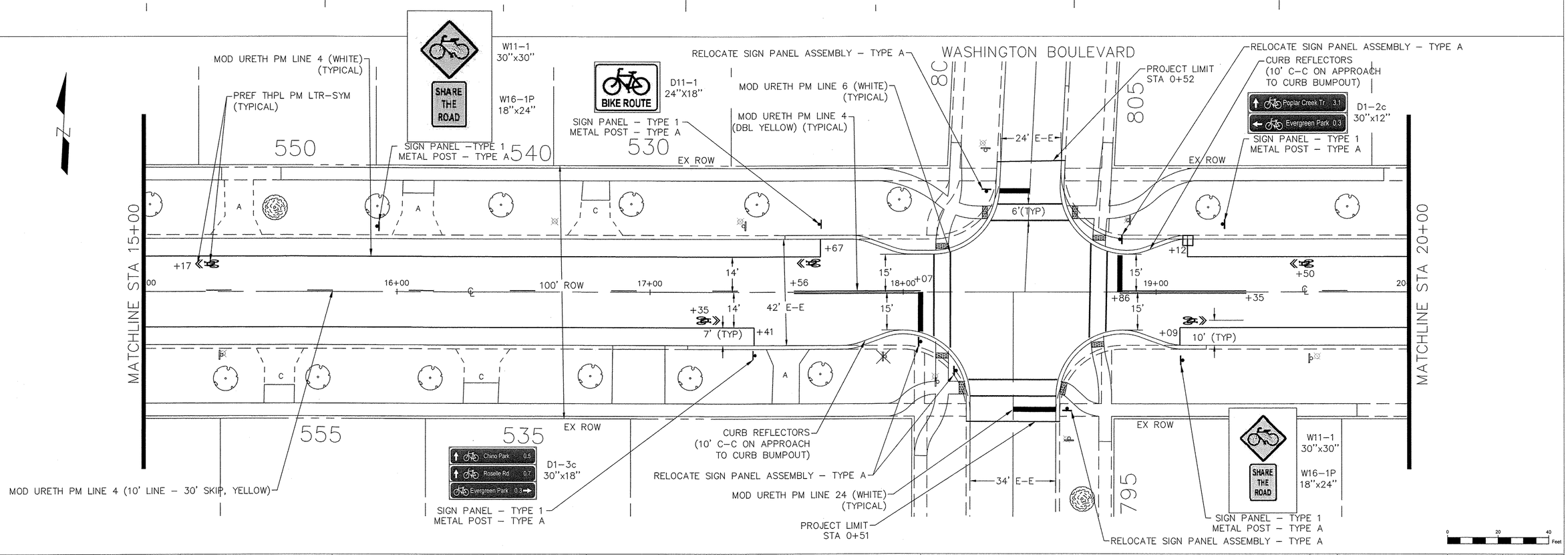
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 1 OF 6 SHEETS | STA. 0+00 TO STA. 10+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	19
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		





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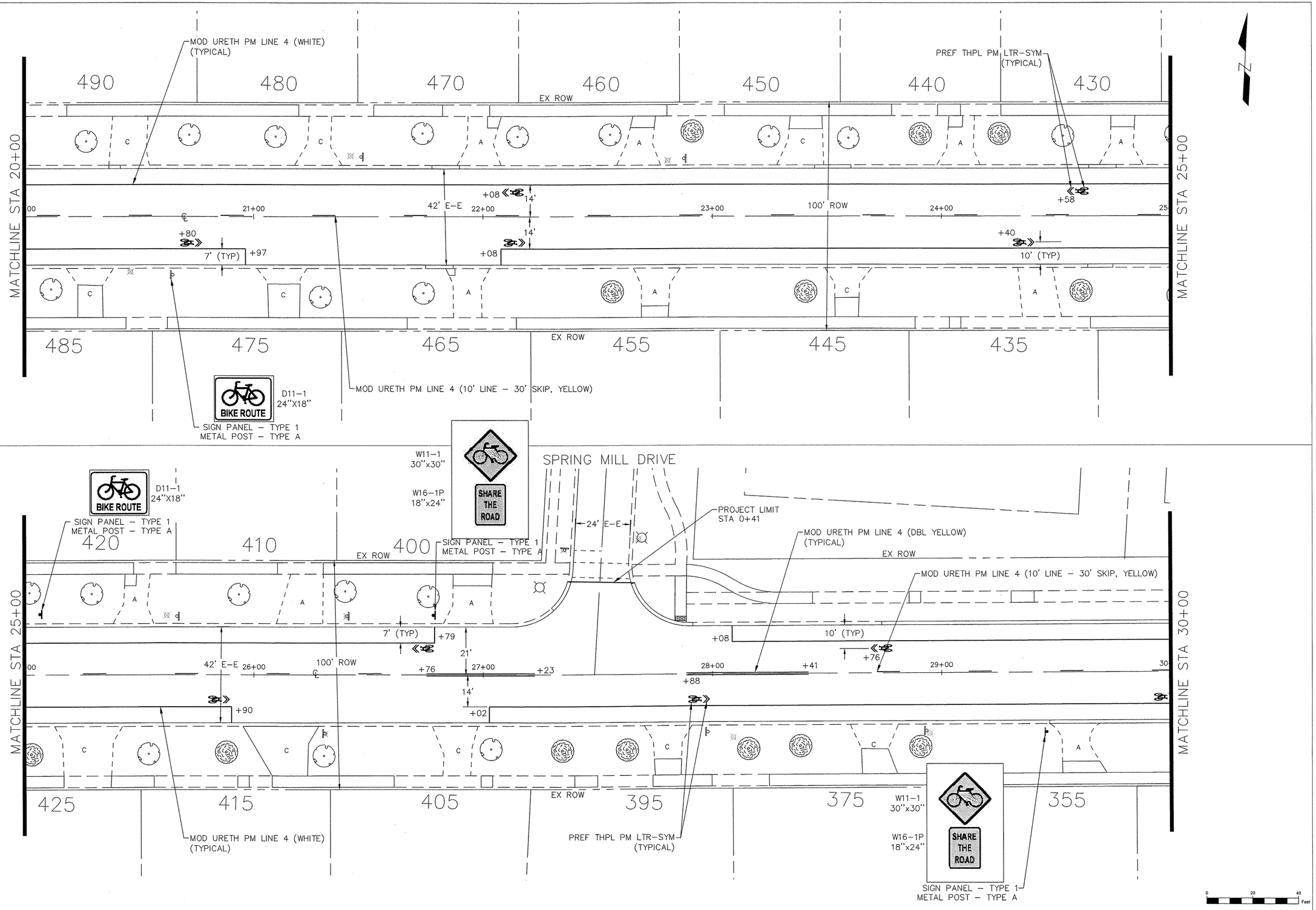
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 2 OF 6 SHEETS | STA. 10+00 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	20
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



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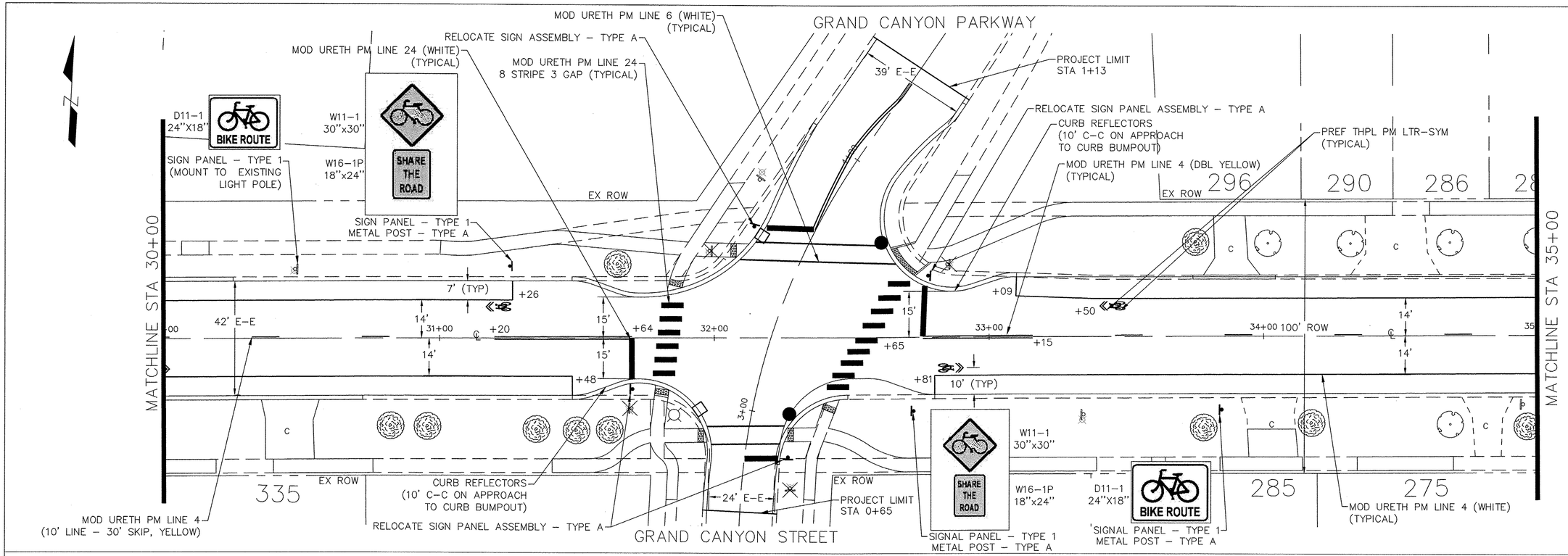
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 3 OF 6 SHEETS | STA. 20+00 TO STA. 30+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	21
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



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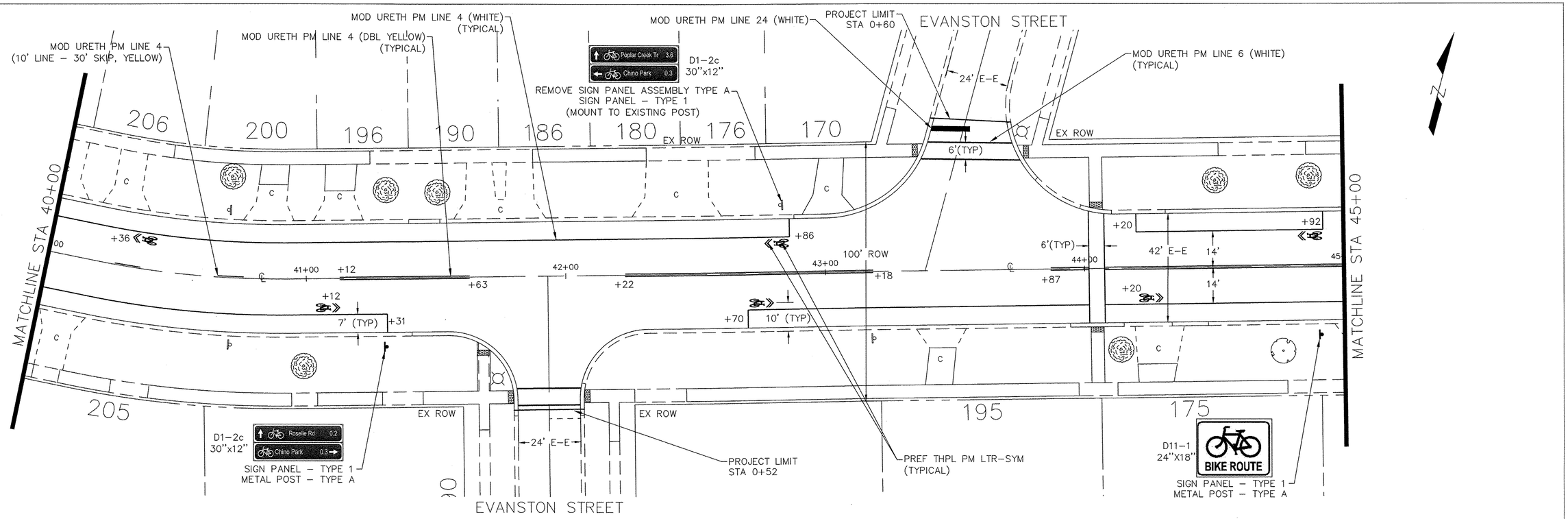
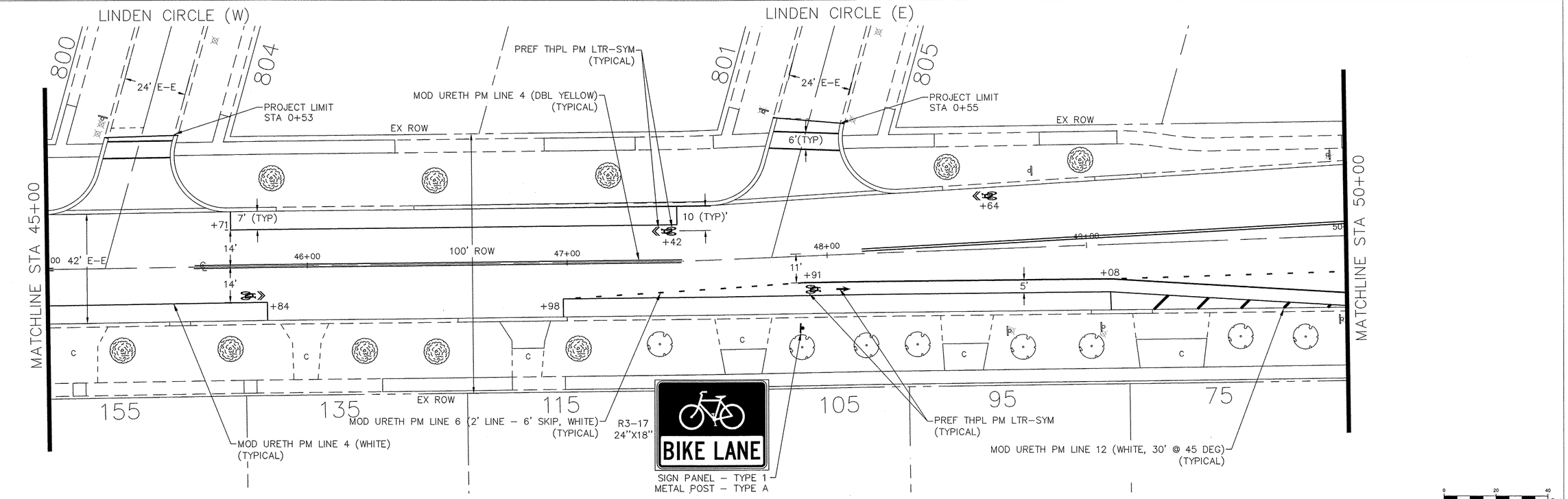
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 4 OF 6 SHEETS | STA. 30+00 TO STA. 40+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15–00095–00–RS	COOK	65	22
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		





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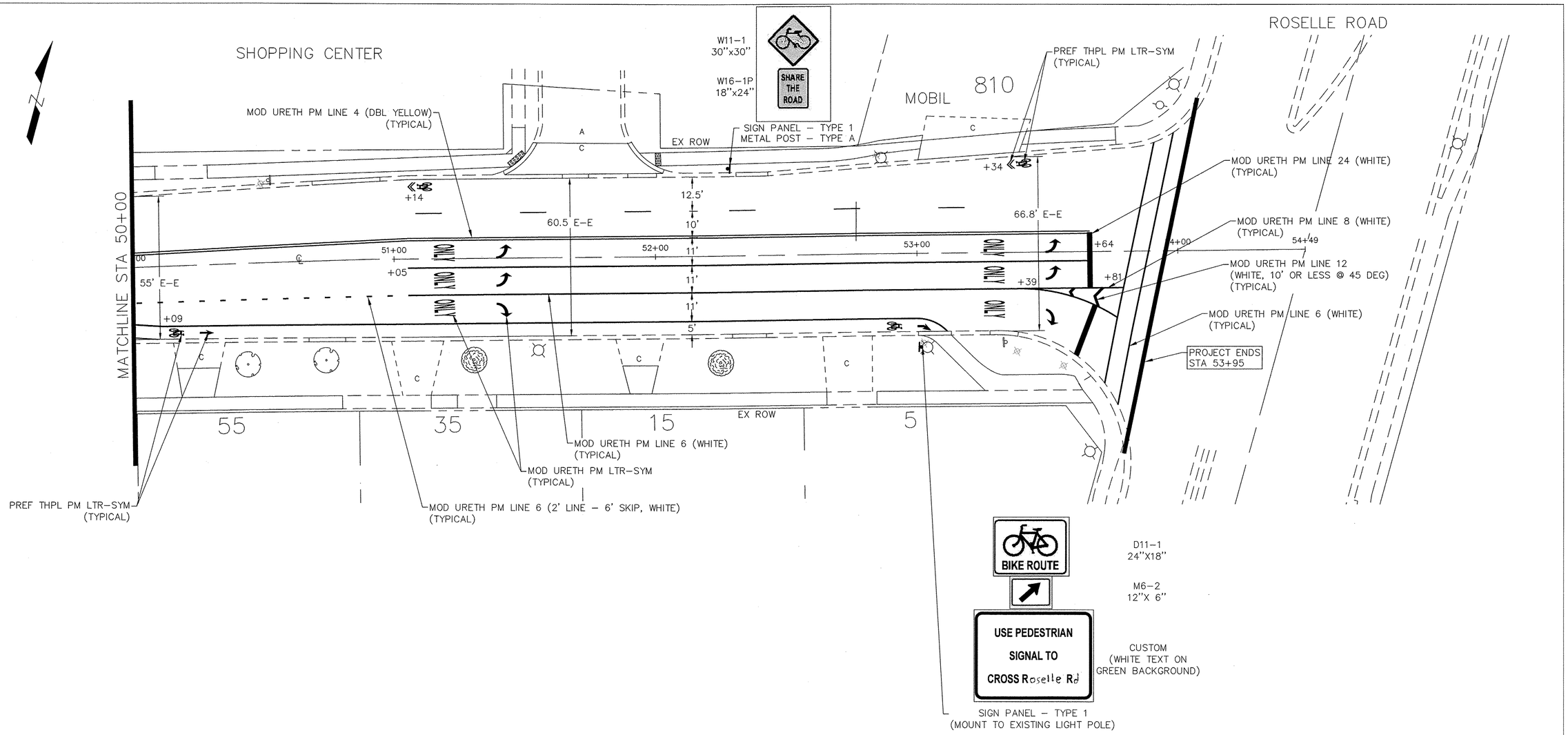
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 5 OF 6 SHEETS | STA. 40+00 TO STA. 50+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15–00095–00–RS	COOK	65	23
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		



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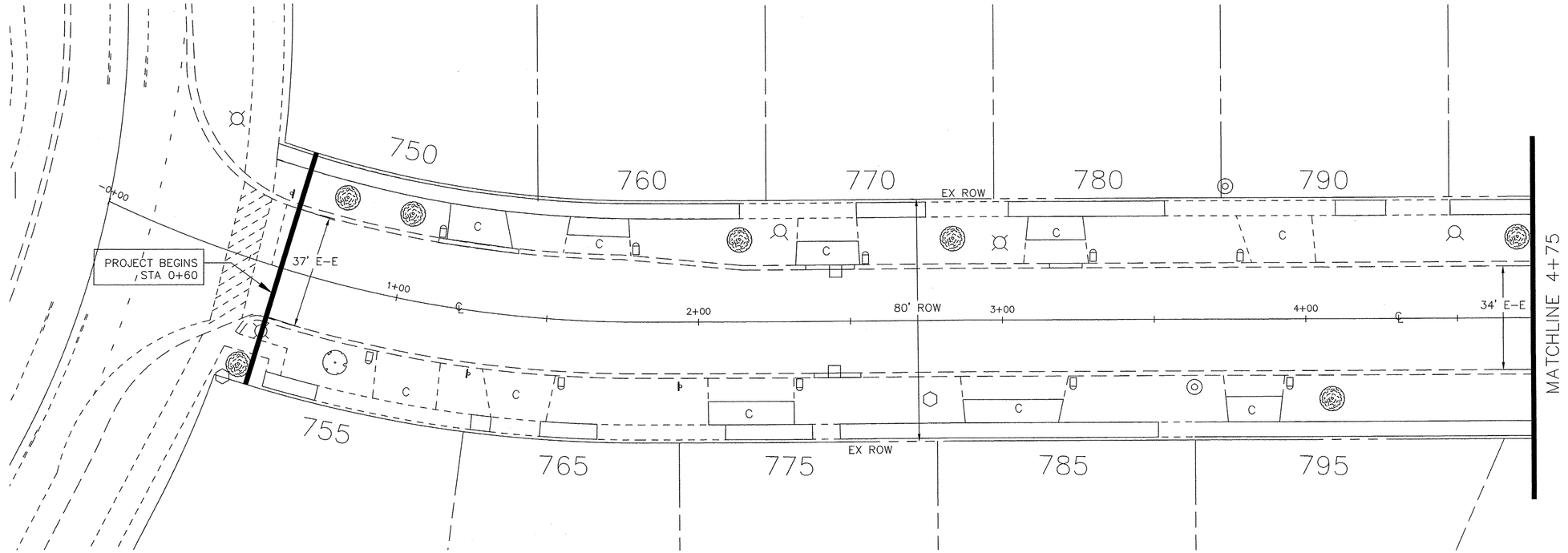
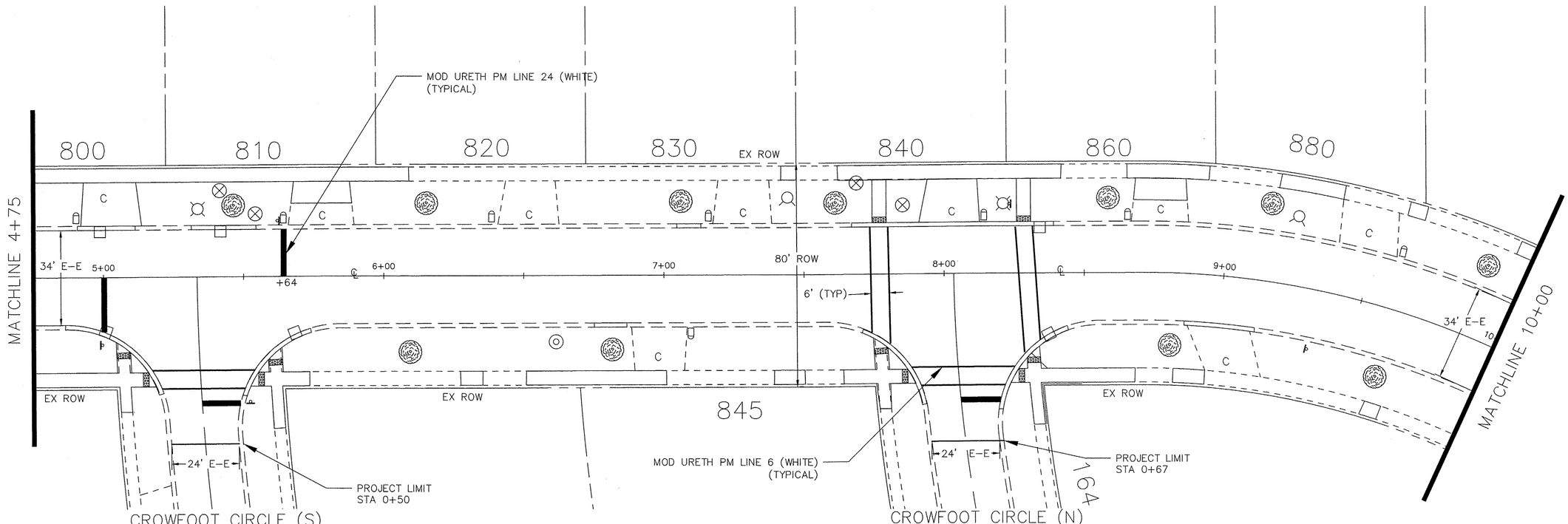
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 6 OF 6 SHEETS | STA. 50+00 TO STA. 54+49

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	24
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		





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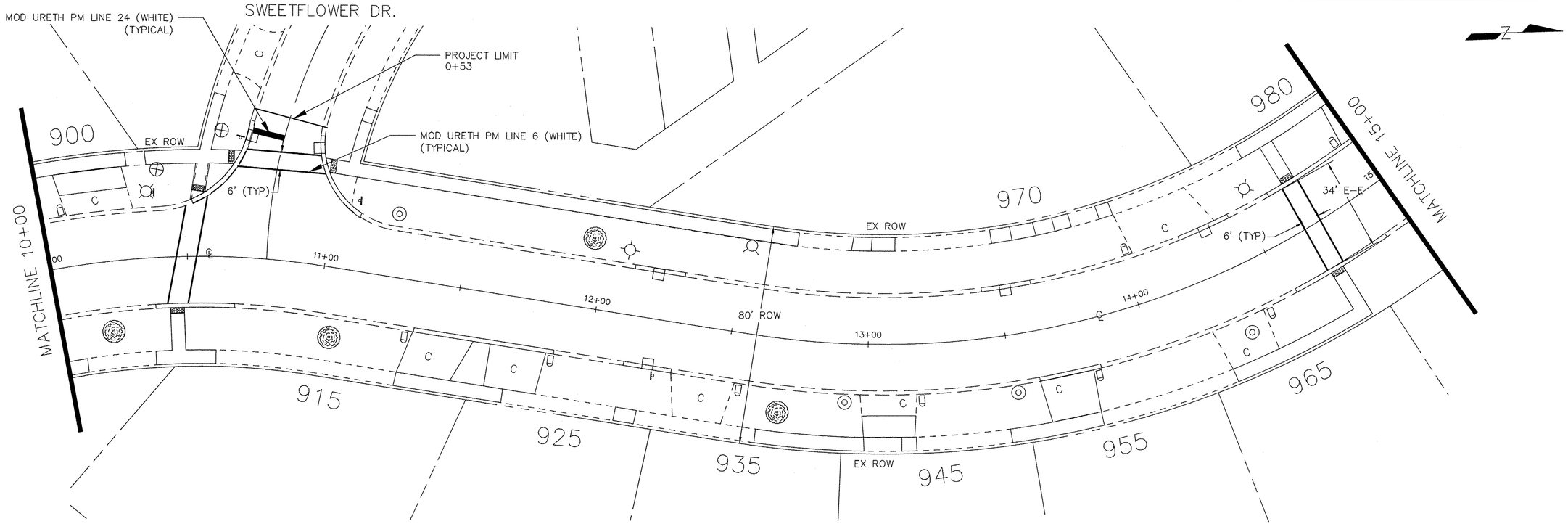
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - HARMON BLVD

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 0+00 TO STA. 10+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	25
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



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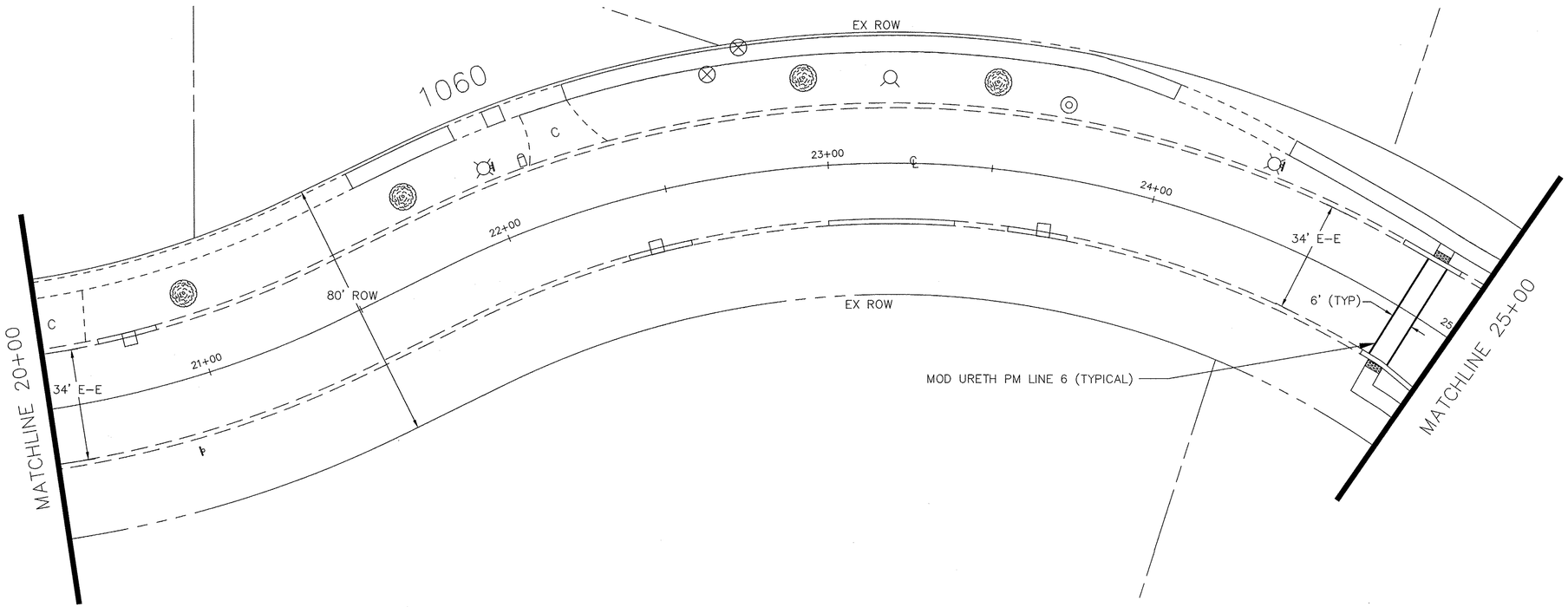
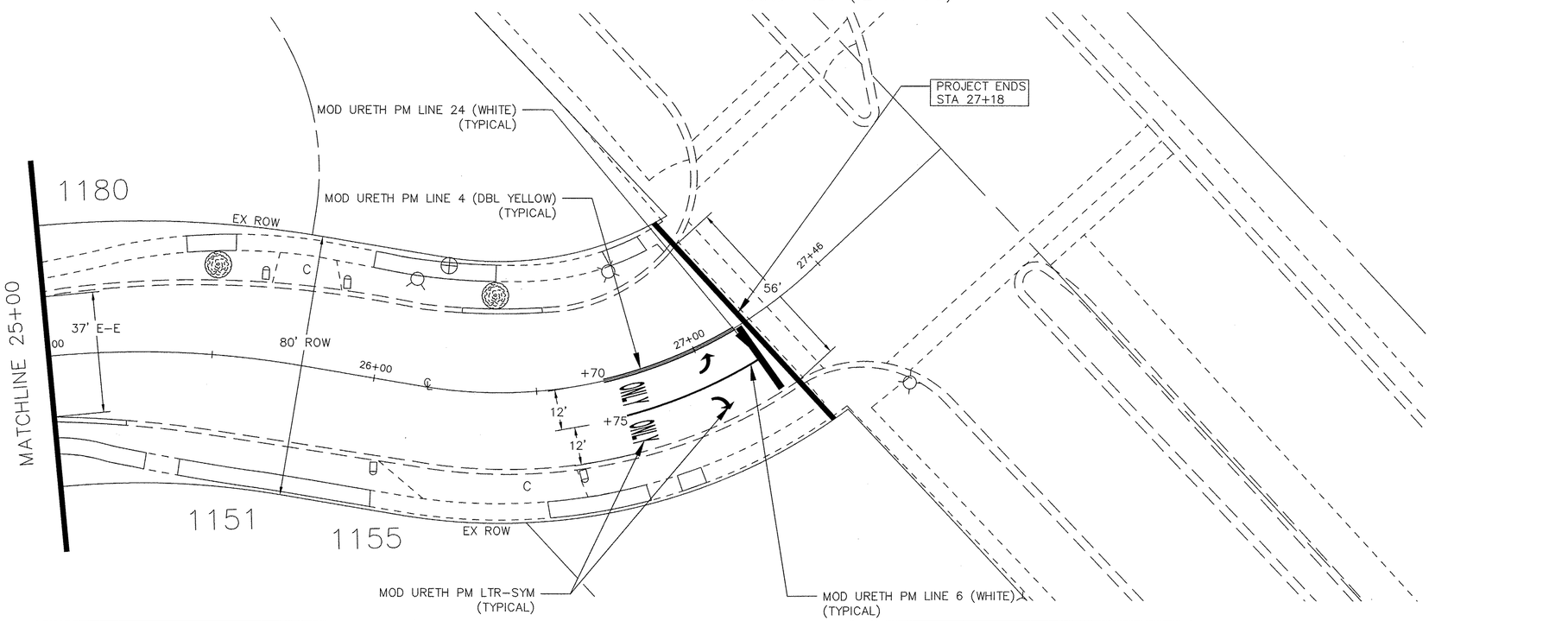
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - HARMON BLVD

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 10+00 TO STA. 20+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	26
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		





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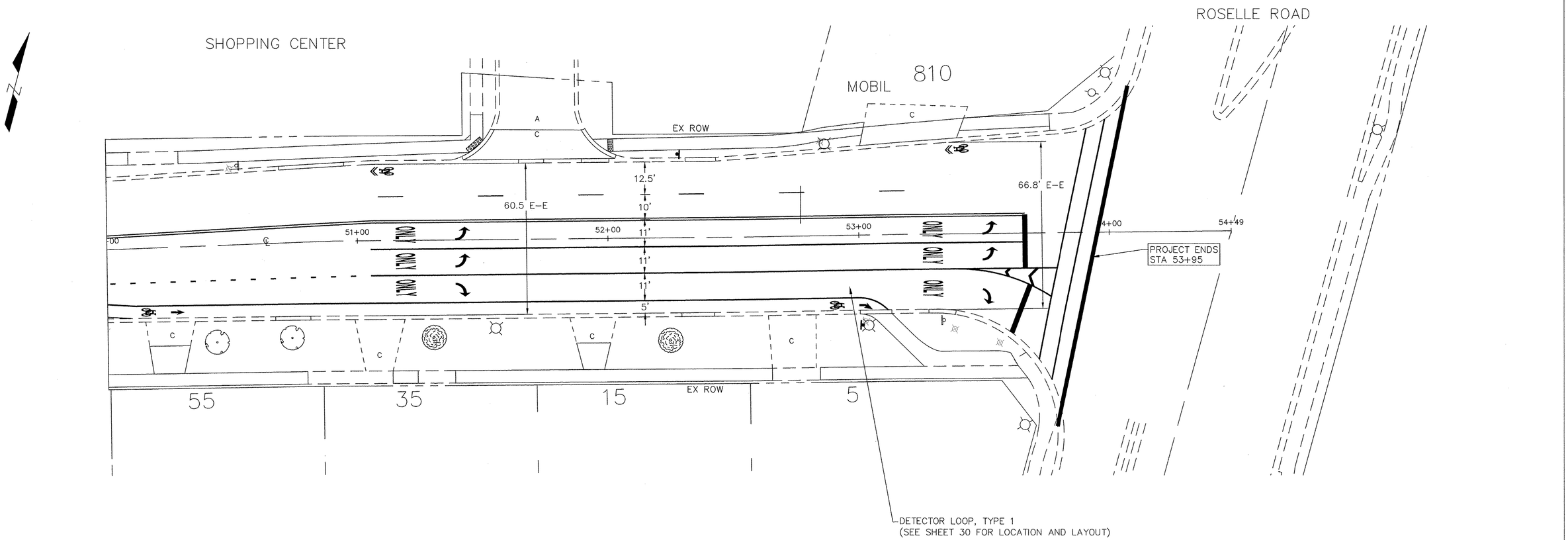
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
STRIPING AND SIGNAGE - HARMON BLVD

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 20+50 TO STA. 27+18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	27
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



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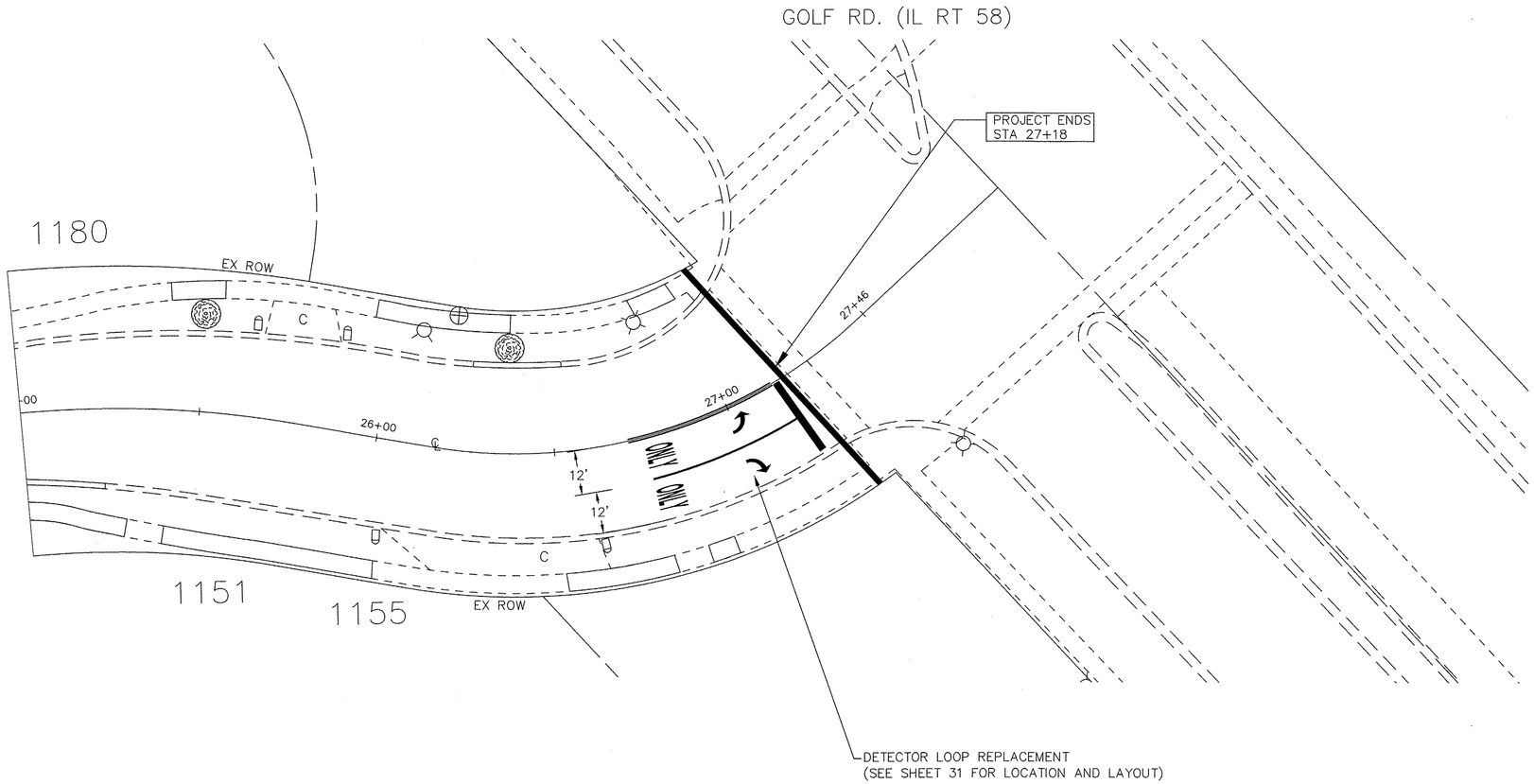
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
DETECTOR LOOP PLAN - BODE ROAD

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. 50+00 TO STA. 54+49

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	28
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



0 20 40 Feet

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
DETECTOR LOOP PLAN - HARMON BLVD

SCALE: 1" = 20' | SHEET NO. 1 OF 1 SHEETS | STA. 20+50 TO STA. 27+18

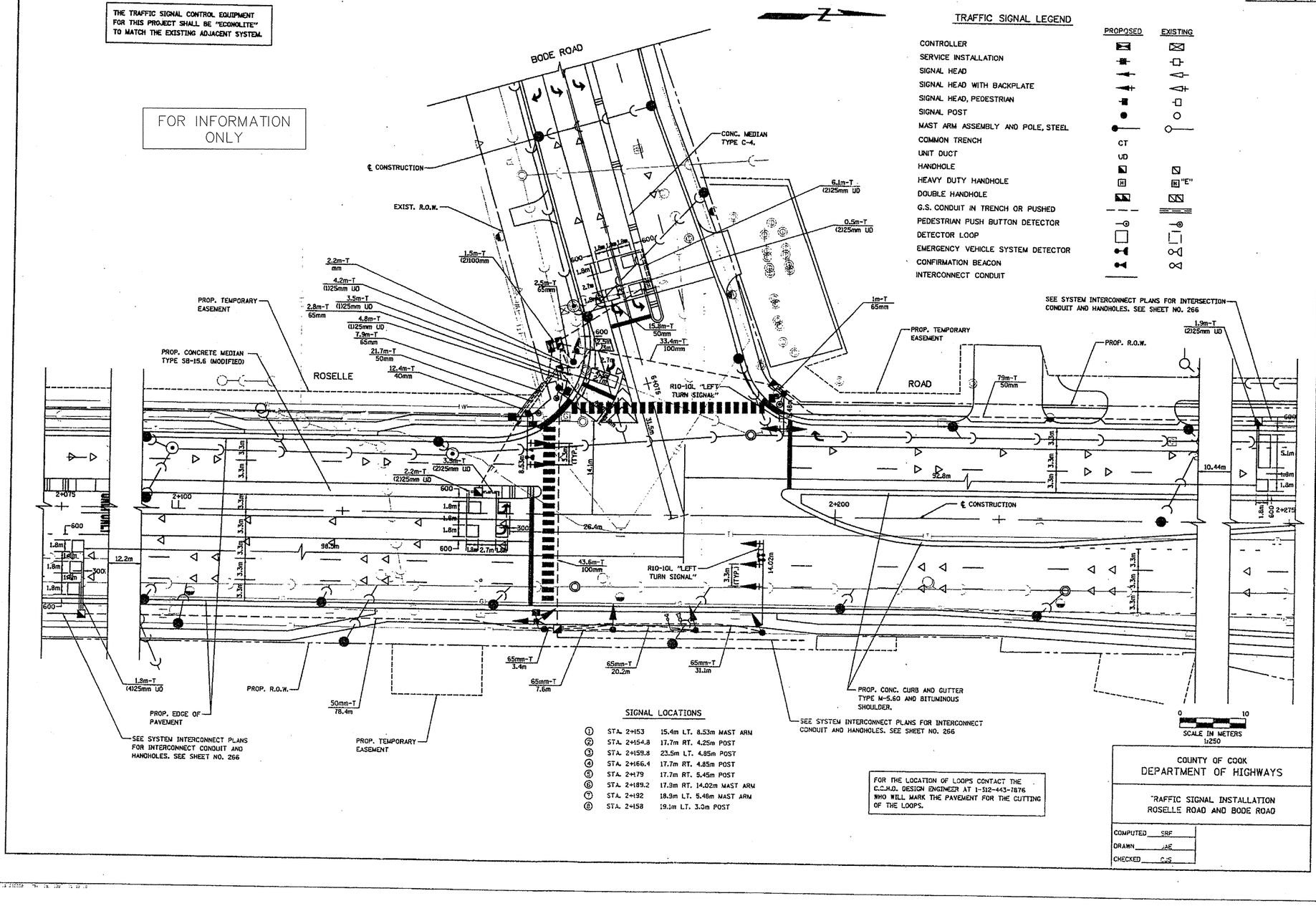
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	29
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

COUNTY HIGHWAY	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
V60	1997	279	405

Section 96-V6040-04-RP

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FOR INFORMATION ONLY



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	▣	⊠
SERVICE INSTALLATION	■	□
SIGNAL HEAD	◀	◁
SIGNAL HEAD WITH BACKPLATE	◀+	◁+
SIGNAL HEAD, PEDESTRIAN	■	□
SIGNAL POST	●	○
MAST ARM ASSEMBLY AND POLE, STEEL	●—	○—
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE	◪	⊠
HEAVY DUTY HANDHOLE	H	H "E"
DOUBLE HANDHOLE	◪◪	⊠⊠
G.S. CONDUIT IN TRENCH OR PUSHED	— — —	═══
PEDESTRIAN PUSH BUTTON DETECTOR	—⊙	—⊙
DETECTOR LOOP	□	□
EMERGENCY VEHICLE SYSTEM DETECTOR	◀	◁
CONFIRMATION BEACON	◀	◁
INTERCONNECT CONDUIT	═══	

SIGNAL LOCATIONS

①	STA. 2+153	15.4m LT. 8.53m MAST ARM
②	STA. 2+154.8	17.7m RT. 4.25m POST
③	STA. 2+159.8	23.5m LT. 4.85m POST
④	STA. 2+166.4	17.7m RT. 4.85m POST
⑤	STA. 2+179	17.7m RT. 5.45m POST
⑥	STA. 2+189.2	17.9m RT. 14.02m MAST ARM
⑦	STA. 2+192	18.9m LT. 5.48m MAST ARM
⑧	STA. 2+158	19.1m LT. 3.0m POST

FOR THE LOCATION OF LOOPS CONTACT THE C.C.H.D. DESIGN ENGINEER AT 1-312-443-7876 WHO WILL MARK THE PAVEMENT FOR THE CUTTING OF THE LOOPS.

COUNTY OF COOK
DEPARTMENT OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION
ROSELLE ROAD AND BODE ROAD

COMPUTED SRF
DRAWN JAE
CHECKED CJS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

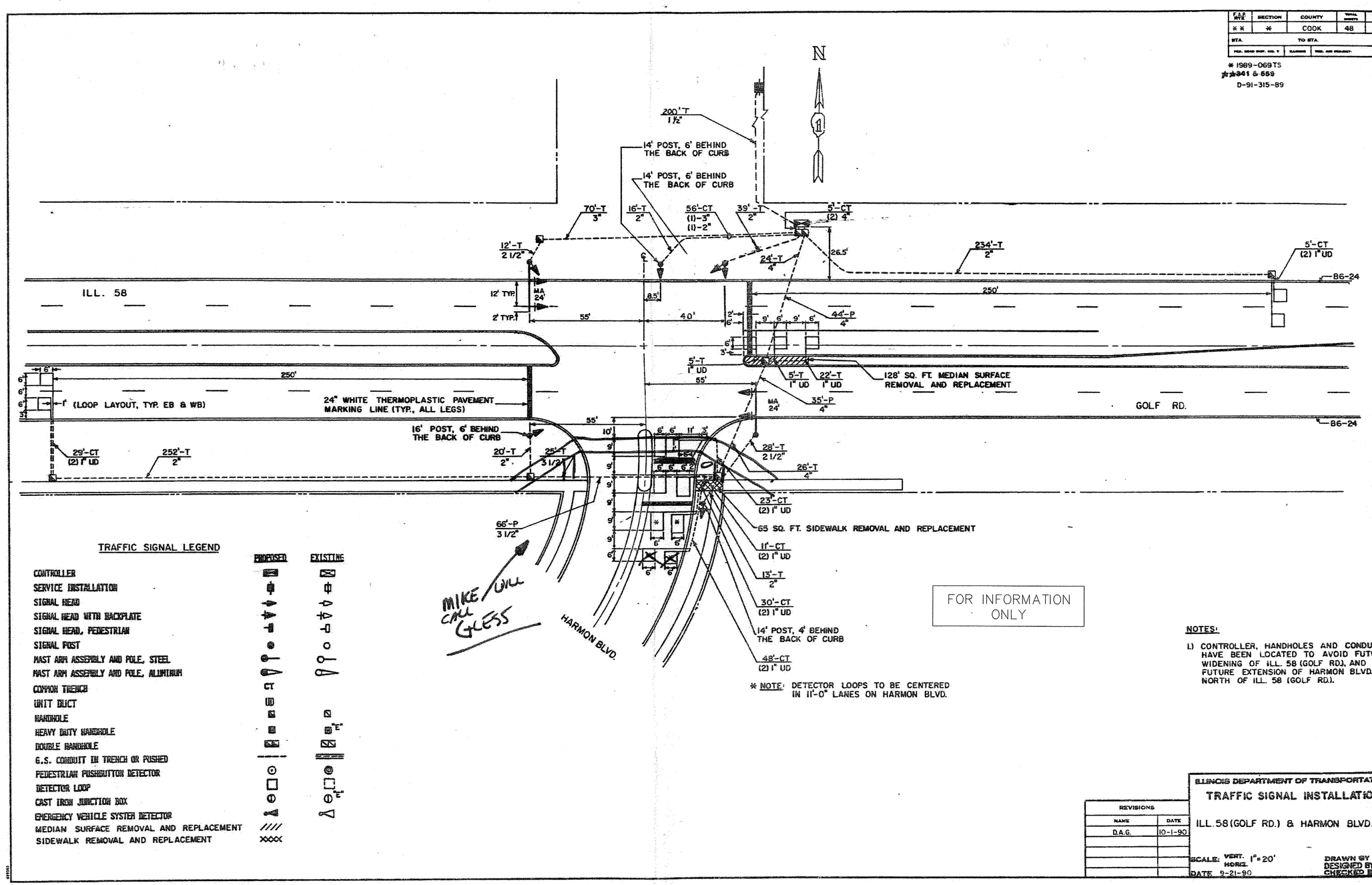
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
EXISTING SIGNAL PLAN - BODE ROAD

SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	30
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* *	*	COOK	48	15
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

* 1989-069TS
**341 & 653
D-91-315-89



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	▭	⊠
SERVICE INSTALLATION	⊕	⊕
SIGNAL HEAD	◆	◇
SIGNAL HEAD WITH BACKPLATE	◆	◇
SIGNAL HEAD, PEDESTRIAN	⊕	⊡
SIGNAL POST	●	○
MAST ARM ASSEMBLY AND POLE, STEEL	●	○
MAST ARM ASSEMBLY AND POLE, ALUMINUM	●	○
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE	H	⊠
HEAVY DUTY HANDHOLE	H	⊞ "E"
DOUBLE HANDHOLE	⊠	⊠
G.S. CONDUIT IN TRENCH OR PUSHED	———	═══
PEDESTRIAN PUSHBUTTON DETECTOR	⊙	⊙
DETECTOR LOOP	□	□ "E"
CAST IRON JUNCTION BOX	⊖	⊖ "E"
EMERGENCY VEHICLE SYSTEM DETECTOR	◢	◢
MEDIAN SURFACE REMOVAL AND REPLACEMENT	////	
SIDEWALK REMOVAL AND REPLACEMENT	XXXX	

FOR INFORMATION ONLY

* NOTE: DETECTOR LOOPS TO BE CENTERED IN 11'-0" LANES ON HARMON BLVD.

NOTES:

1) CONTROLLER, HANDHOLES AND CONDUITS HAVE BEEN LOCATED TO AVOID FUTURE WIDENING OF ILL. 58 (GOLF RD.), AND FUTURE EXTENSION OF HARMON BLVD., NORTH OF ILL. 58 (GOLF RD.).

REVISIONS	
NAME	DATE
D.A.G.	10-1-90

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION

ILL. 58 (GOLF RD.) & HARMON BLVD.

SCALE: VERT. 1"=20' HORIZ.
DATE: 9-21-90
DRAWN BY D.A.G.
DESIGNED BY D.A.G.
CHECKED BY D.A.G.

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel: 773.775.4009 Fax 773.775.4014
Email chicago@ciorba.com

USERNAME = dwierzbicki	DESIGNED – JPA	REVISED –
	DRAWN – DW	REVISED –
PLOT SCALE =	CHECKED – DJO	REVISED –
PLOT DATE =	DATE – 01/30/2017	REVISED –

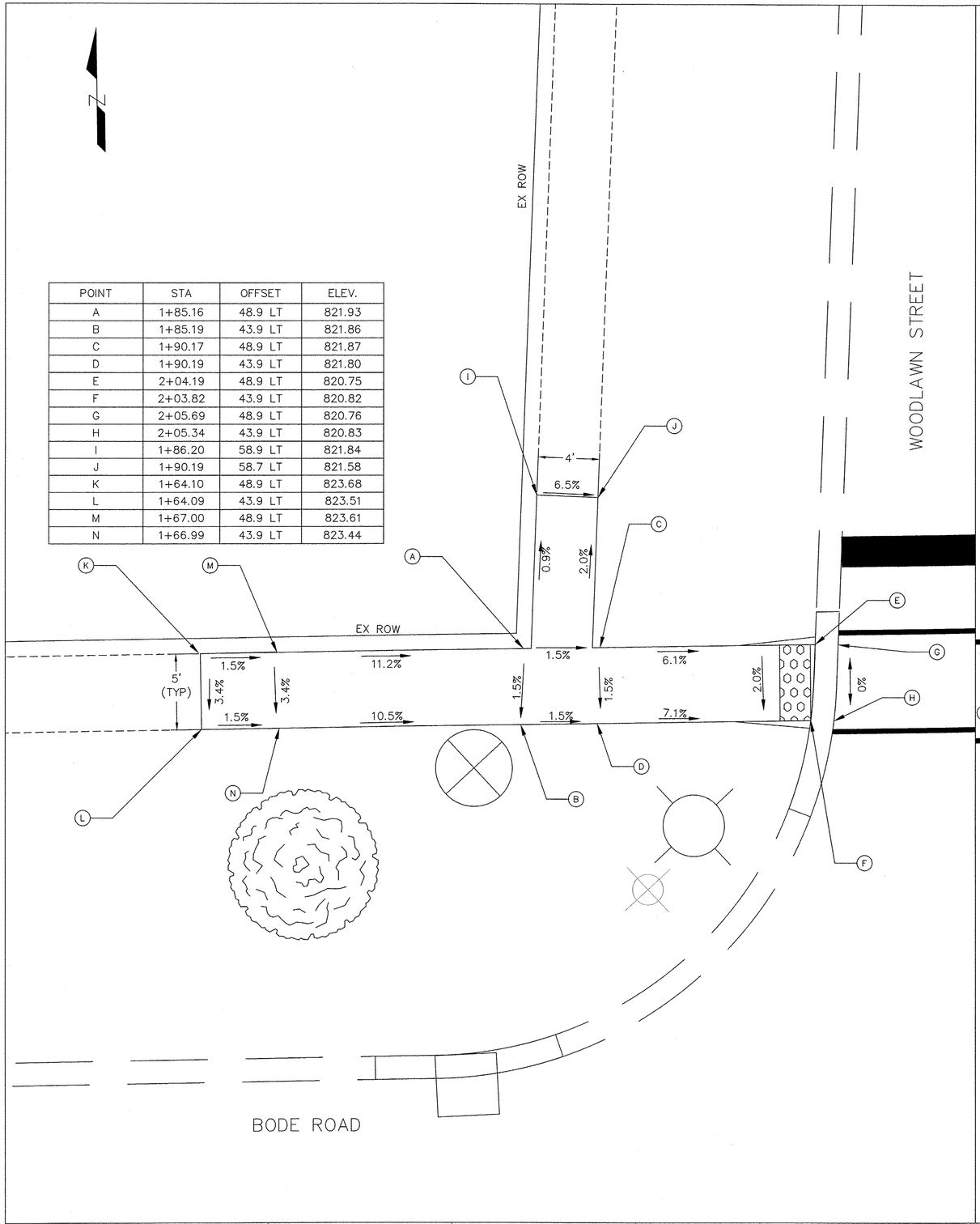
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
EXISTING SIGNAL PLAN - HARMON BOULEVARD

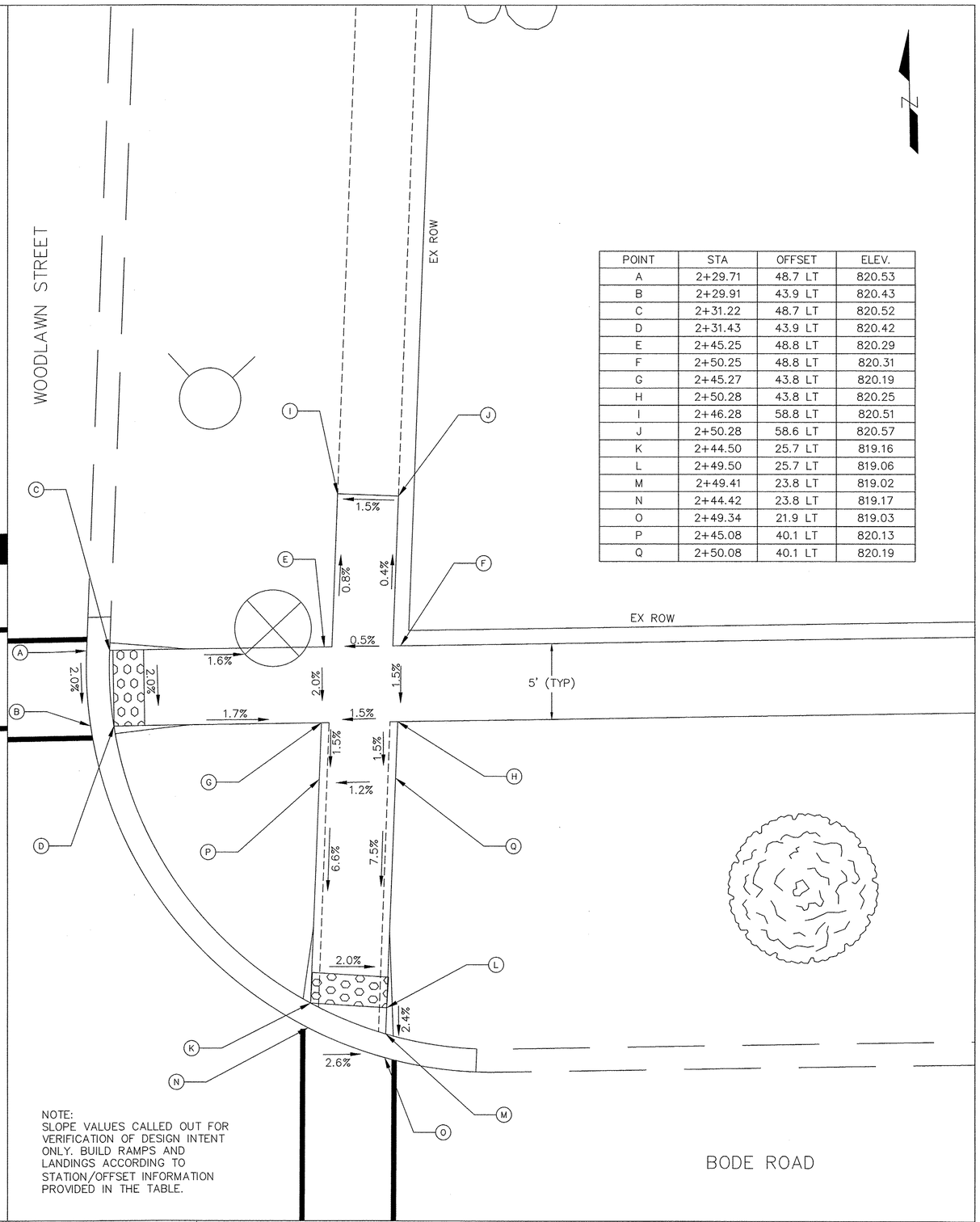
SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	31
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

POINT	STA	OFFSET	ELEV.
A	1+85.16	48.9 LT	821.93
B	1+85.19	43.9 LT	821.86
C	1+90.17	48.9 LT	821.87
D	1+90.19	43.9 LT	821.80
E	2+04.19	48.9 LT	820.75
F	2+03.82	43.9 LT	820.82
G	2+05.69	48.9 LT	820.76
H	2+05.34	43.9 LT	820.83
I	1+86.20	58.9 LT	821.84
J	1+90.19	58.7 LT	821.58
K	1+64.10	48.9 LT	823.68
L	1+64.09	43.9 LT	823.51
M	1+67.00	48.9 LT	823.61
N	1+66.99	43.9 LT	823.44



POINT	STA	OFFSET	ELEV.
A	2+29.71	48.7 LT	820.53
B	2+29.91	43.9 LT	820.43
C	2+31.22	48.7 LT	820.52
D	2+31.43	43.9 LT	820.42
E	2+45.25	48.8 LT	820.29
F	2+50.25	48.8 LT	820.31
G	2+45.27	43.8 LT	820.19
H	2+50.28	43.8 LT	820.25
I	2+46.28	58.8 LT	820.51
J	2+50.28	58.6 LT	820.57
K	2+44.50	25.7 LT	819.16
L	2+49.50	25.7 LT	819.06
M	2+49.41	23.8 LT	819.02
N	2+44.42	23.8 LT	819.17
O	2+49.34	21.9 LT	819.03
P	2+45.08	40.1 LT	820.13
Q	2+50.08	40.1 LT	820.19



NOTE:
SLOPE VALUES CALLED OUT FOR VERIFICATION OF DESIGN INTENT ONLY. BUILD RAMPS AND LANDINGS ACCORDING TO STATION/OFFSET INFORMATION PROVIDED IN THE TABLE.

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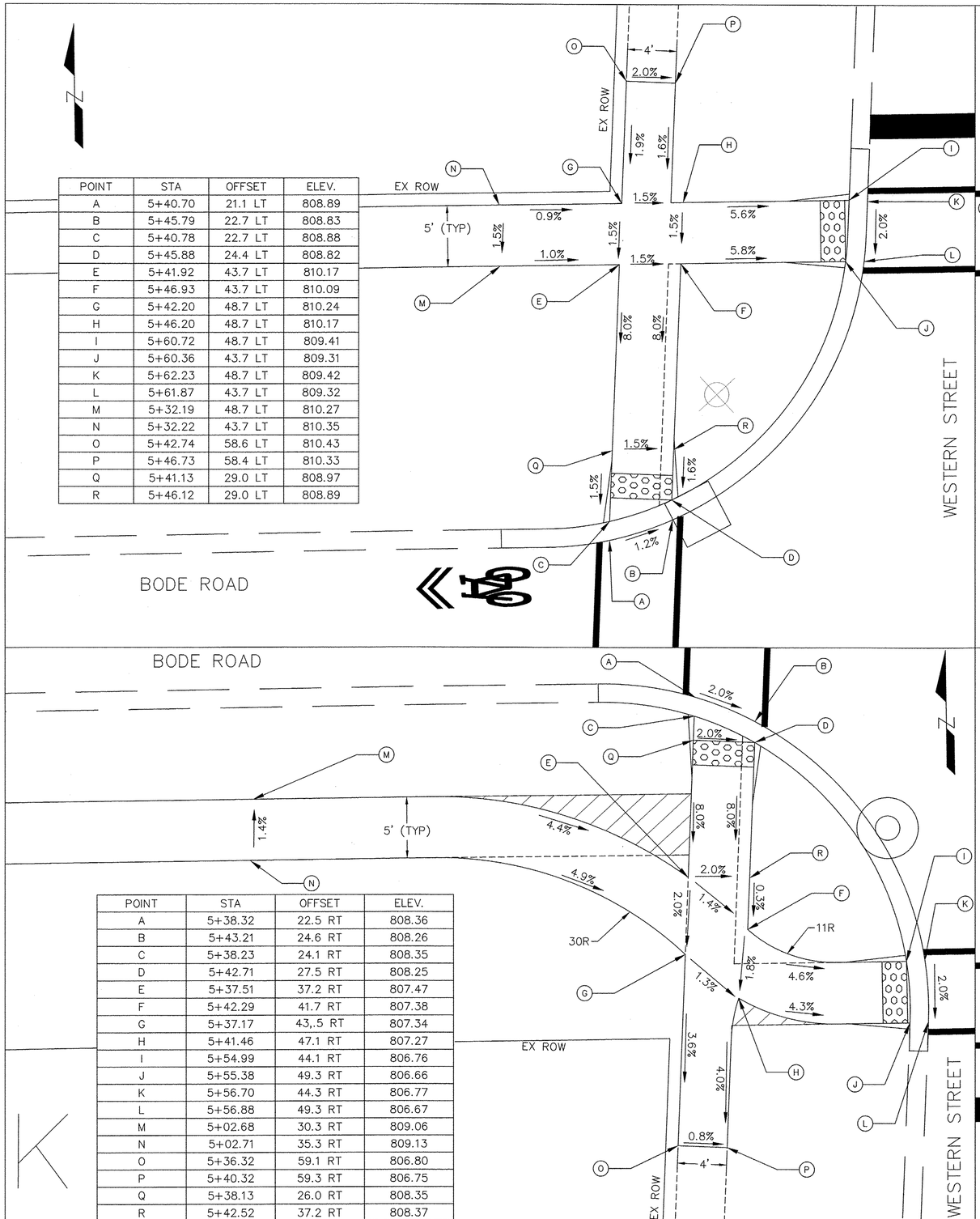
PLOT DATE =	DATE – 01/30/2017	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

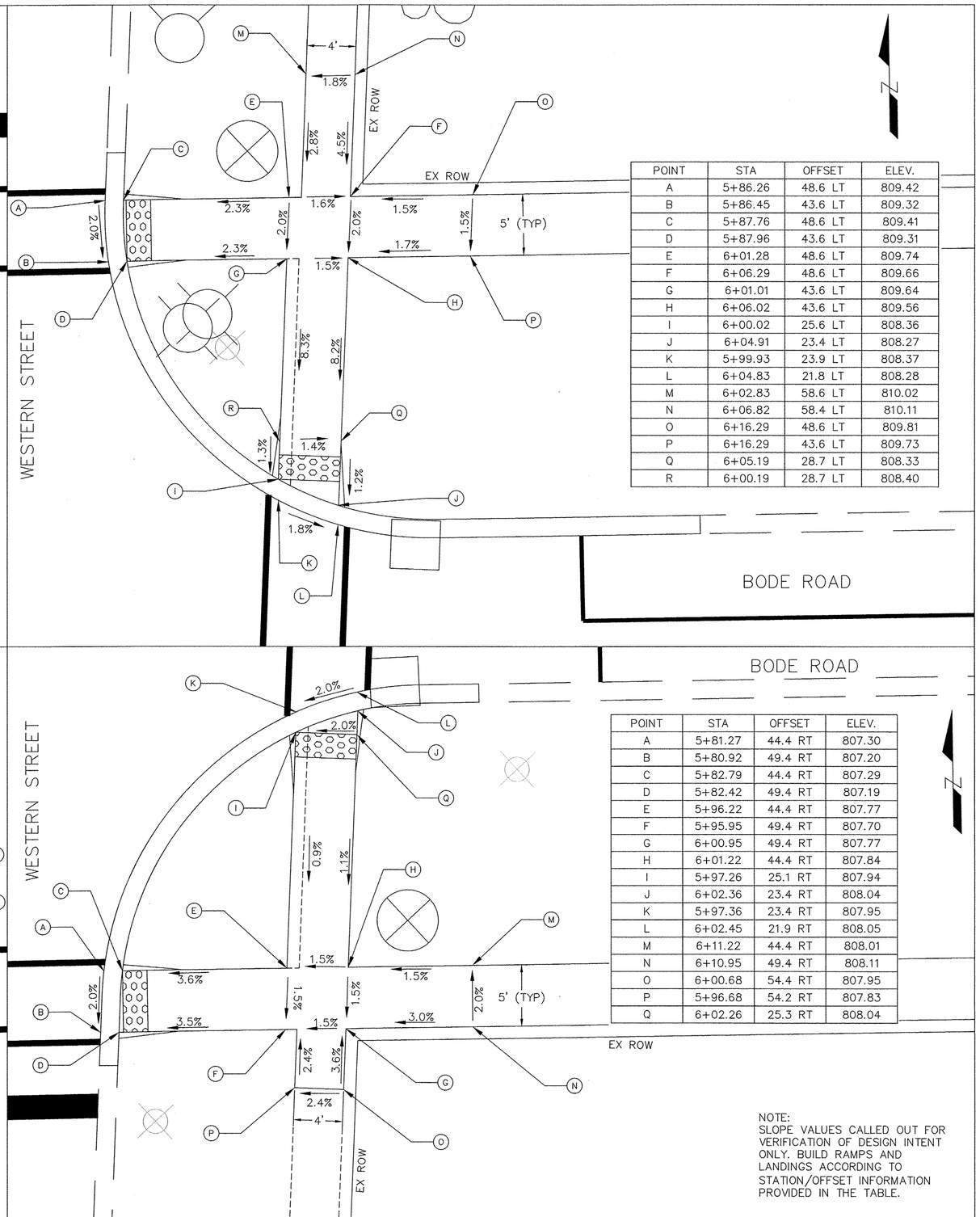
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 4' | SHEET NO. 1 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	32
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	5+40.70	21.1 LT	808.89
B	5+45.79	22.7 LT	808.83
C	5+40.78	22.7 LT	808.88
D	5+45.88	24.4 LT	808.82
E	5+41.92	43.7 LT	810.17
F	5+46.93	43.7 LT	810.09
G	5+42.20	48.7 LT	810.24
H	5+46.20	48.7 LT	810.17
I	5+60.72	48.7 LT	809.41
J	5+60.36	43.7 LT	809.31
K	5+62.23	48.7 LT	809.42
L	5+61.87	43.7 LT	809.32
M	5+32.19	48.7 LT	810.27
N	5+32.22	43.7 LT	810.35
O	5+42.74	58.6 LT	810.43
P	5+46.73	58.4 LT	810.33
Q	5+41.13	29.0 LT	808.97
R	5+46.12	29.0 LT	808.89



POINT	STA	OFFSET	ELEV.
A	5+86.26	48.6 LT	809.42
B	5+86.45	43.6 LT	809.32
C	5+87.76	48.6 LT	809.41
D	5+87.96	43.6 LT	809.31
E	6+01.28	48.6 LT	809.74
F	6+06.29	48.6 LT	809.66
G	6+01.01	43.6 LT	809.64
H	6+06.02	43.6 LT	809.56
I	6+00.02	25.6 LT	808.36
J	6+04.91	23.4 LT	808.27
K	5+99.93	23.9 LT	808.37
L	6+04.83	21.8 LT	808.28
M	6+02.83	58.6 LT	810.02
N	6+06.82	58.4 LT	810.11
O	6+16.29	48.6 LT	809.81
P	6+16.29	43.6 LT	809.73
Q	6+05.19	28.7 LT	808.33
R	6+00.19	28.7 LT	808.40

POINT	STA	OFFSET	ELEV.
A	5+38.32	22.5 RT	808.36
B	5+43.21	24.6 RT	808.26
C	5+38.23	24.1 RT	808.35
D	5+42.71	27.5 RT	808.25
E	5+37.51	37.2 RT	807.47
F	5+42.29	41.7 RT	807.38
G	5+37.17	43,.5 RT	807.34
H	5+41.46	47.1 RT	807.27
I	5+54.99	44.1 RT	806.76
J	5+55.38	49.3 RT	806.66
K	5+56.70	44.3 RT	806.77
L	5+56.88	49.3 RT	806.67
M	5+02.68	30.3 RT	809.06
N	5+02.71	35.3 RT	809.13
O	5+36.32	59.1 RT	806.80
P	5+40.32	59.3 RT	806.75
Q	5+38.13	26.0 RT	808.35
R	5+42.52	37.2 RT	808.37

POINT	STA	OFFSET	ELEV.
A	5+81.27	44.4 RT	807.30
B	5+80.92	49.4 RT	807.20
C	5+82.79	44.4 RT	807.29
D	5+82.42	49.4 RT	807.19
E	5+96.22	44.4 RT	807.77
F	5+95.95	49.4 RT	807.70
G	6+00.95	49.4 RT	807.77
H	6+01.22	44.4 RT	807.84
I	5+97.26	25.1 RT	807.94
J	6+02.36	23.4 RT	808.04
K	5+97.36	23.4 RT	807.95
L	6+02.45	21.9 RT	808.05
M	6+11.22	44.4 RT	808.01
N	6+10.95	49.4 RT	808.11
O	6+00.68	54.4 RT	807.95
P	5+96.68	54.2 RT	807.83
Q	6+02.26	25.3 RT	808.04

NOTE:
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PLOT DATE =	DATE – 01/30/2017	REVISED –

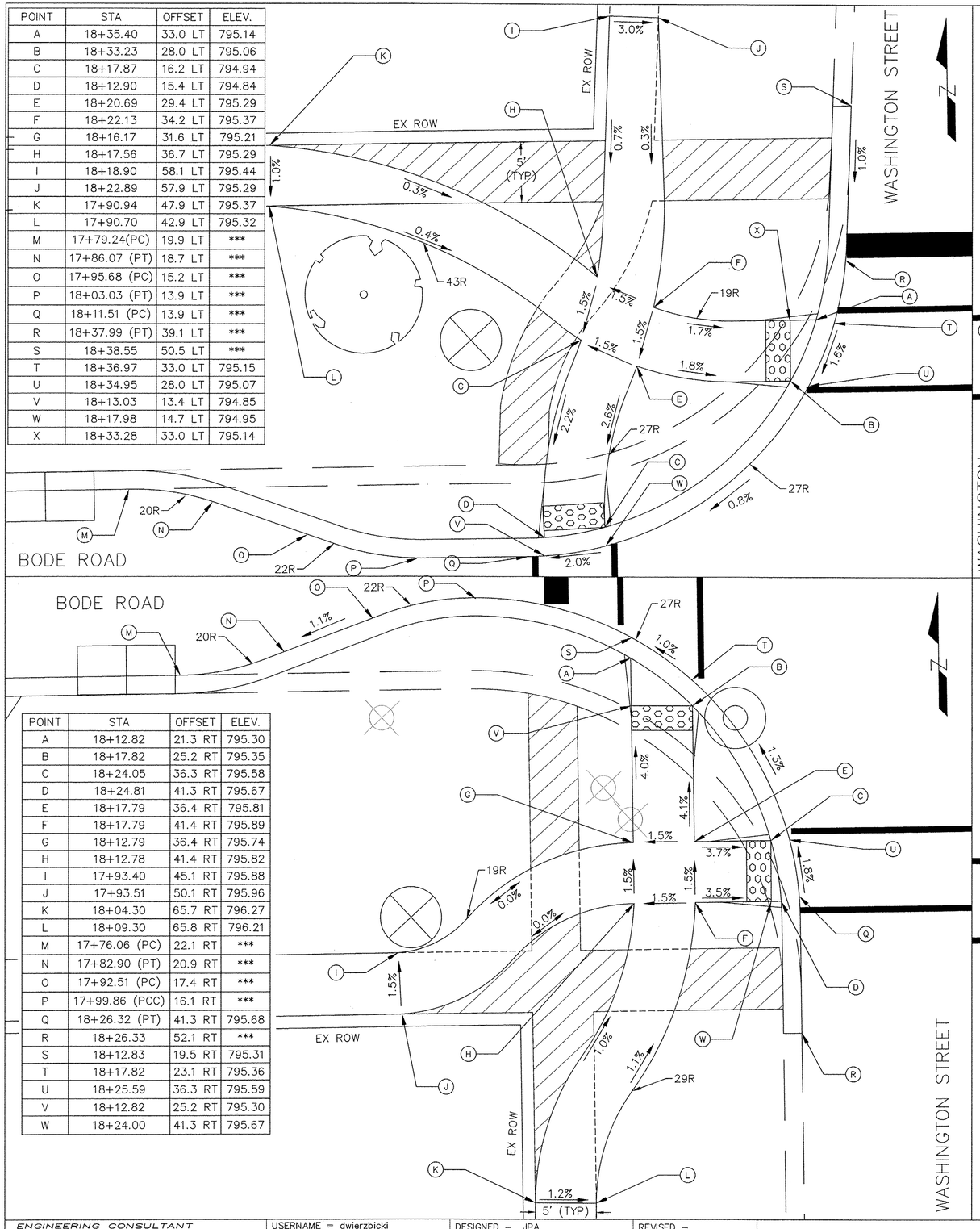
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

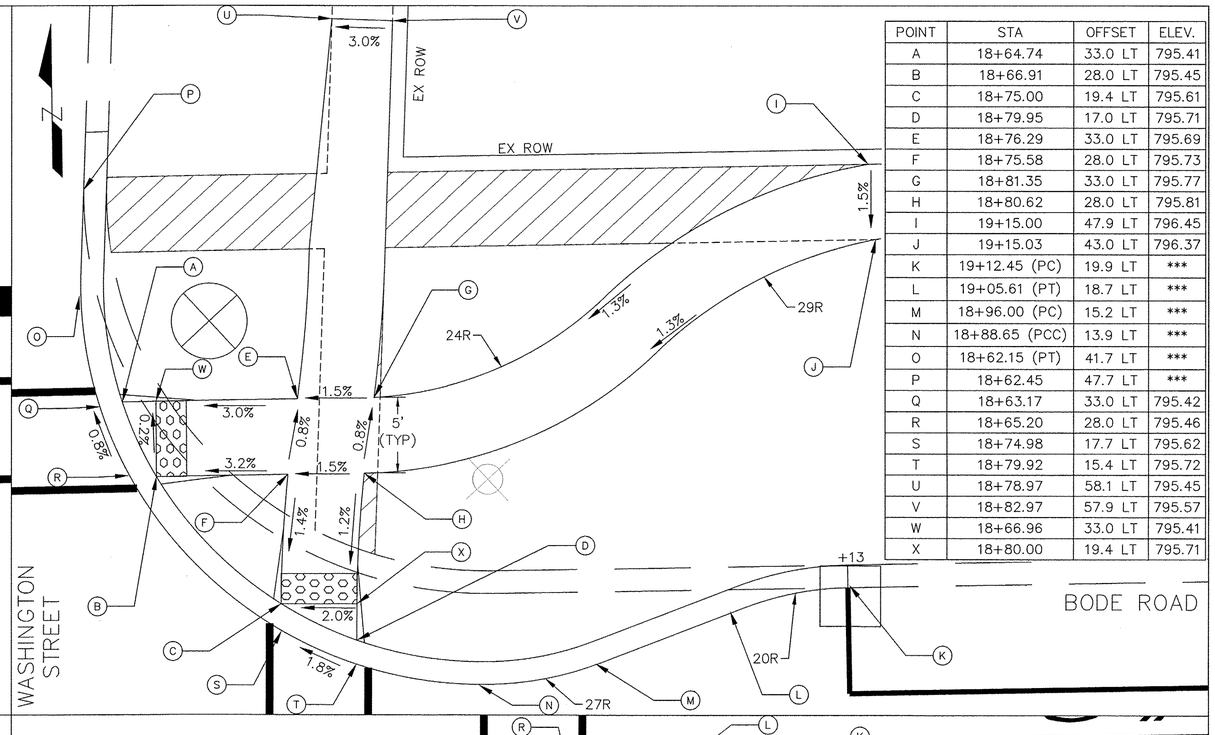
SCALE: 1" = 5' | SHEET NO. 2 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	33
	*1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

POINT	STA	OFFSET	ELEV.
A	18+35.40	33.0 LT	795.14
B	18+33.23	28.0 LT	795.06
C	18+17.87	16.2 LT	794.94
D	18+12.90	15.4 LT	794.84
E	18+20.69	29.4 LT	795.29
F	18+22.13	34.2 LT	795.37
G	18+16.17	31.6 LT	795.21
H	18+17.56	36.7 LT	795.29
I	18+18.90	58.1 LT	795.44
J	18+22.89	57.9 LT	795.29
K	17+90.94	47.9 LT	795.37
L	17+90.70	42.9 LT	795.32
M	17+79.24(PC)	19.9 LT	***
N	17+86.07 (PT)	18.7 LT	***
O	17+95.68 (PC)	15.2 LT	***
P	18+03.03 (PT)	13.9 LT	***
Q	18+11.51 (PC)	13.9 LT	***
R	18+37.99 (PT)	39.1 LT	***
S	18+38.55	50.5 LT	***
T	18+36.97	33.0 LT	795.15
U	18+34.95	28.0 LT	795.07
V	18+13.03	13.4 LT	794.85
W	18+17.98	14.7 LT	794.95
X	18+33.28	33.0 LT	795.14

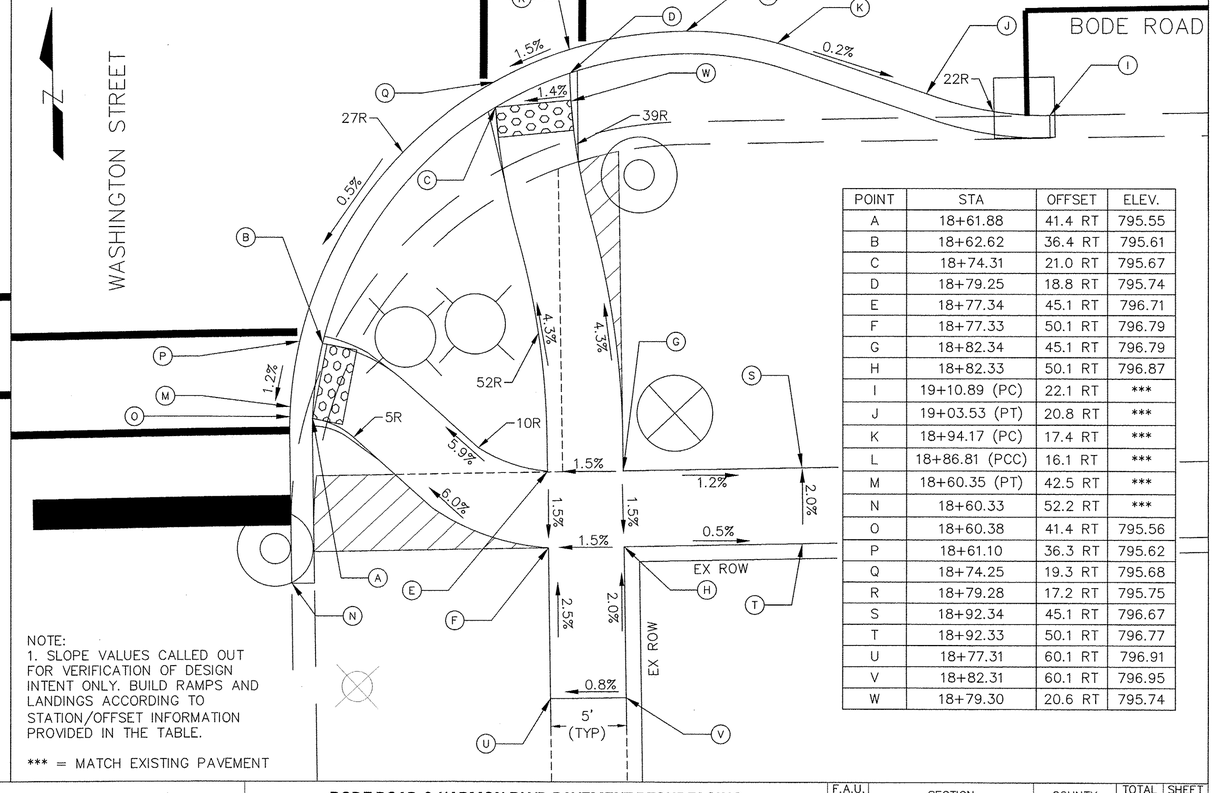


POINT	STA	OFFSET	ELEV.
A	18+64.74	33.0 LT	795.41
B	18+66.91	28.0 LT	795.45
C	18+75.00	19.4 LT	795.61
D	18+79.95	17.0 LT	795.71
E	18+76.29	33.0 LT	795.69
F	18+75.58	28.0 LT	795.73
G	18+81.35	33.0 LT	795.77
H	18+80.62	28.0 LT	795.81
I	19+15.00	47.9 LT	796.45
J	19+15.03	43.0 LT	796.37
K	19+12.45 (PC)	19.9 LT	***
L	19+05.61 (PT)	18.7 LT	***
M	18+96.00 (PC)	15.2 LT	***
N	18+88.65 (PCC)	13.9 LT	***
O	18+62.15 (PT)	41.7 LT	***
P	18+62.45	47.7 LT	***
Q	18+63.17	33.0 LT	795.42
R	18+65.20	28.0 LT	795.46
S	18+74.98	17.7 LT	795.62
T	18+79.92	15.4 LT	795.72
U	18+78.97	58.1 LT	795.45
V	18+82.97	57.9 LT	795.57
W	18+66.96	33.0 LT	795.41
X	18+80.00	19.4 LT	795.71



POINT	STA	OFFSET	ELEV.
A	18+12.82	21.3 RT	795.30
B	18+17.82	25.2 RT	795.35
C	18+24.05	36.3 RT	795.58
D	18+24.81	41.3 RT	795.67
E	18+17.79	36.4 RT	795.81
F	18+17.79	41.4 RT	795.89
G	18+12.79	36.4 RT	795.74
H	18+12.78	41.4 RT	795.82
I	17+93.40	45.1 RT	795.88
J	17+93.51	50.1 RT	795.96
K	18+04.30	65.7 RT	796.27
L	18+09.30	65.8 RT	796.21
M	17+76.06 (PC)	22.1 RT	***
N	17+82.90 (PT)	20.9 RT	***
O	17+92.51 (PC)	17.4 RT	***
P	17+99.86 (PCC)	16.1 RT	***
Q	18+26.32 (PT)	41.3 RT	795.68
R	18+26.33	52.1 RT	***
S	18+12.83	19.5 RT	795.31
T	18+17.82	23.1 RT	795.36
U	18+25.59	36.3 RT	795.59
V	18+12.82	25.2 RT	795.30
W	18+24.00	41.3 RT	795.67

POINT	STA	OFFSET	ELEV.
A	18+61.88	41.4 RT	795.55
B	18+62.62	36.4 RT	795.61
C	18+74.31	21.0 RT	795.67
D	18+79.25	18.8 RT	795.74
E	18+77.34	45.1 RT	796.71
F	18+77.33	50.1 RT	796.79
G	18+82.34	45.1 RT	796.79
H	18+82.33	50.1 RT	796.87
I	19+10.89 (PC)	22.1 RT	***
J	19+03.53 (PT)	20.8 RT	***
K	18+94.17 (PC)	17.4 RT	***
L	18+86.81 (PCC)	16.1 RT	***
M	18+60.35 (PT)	42.5 RT	***
N	18+60.33	52.2 RT	***
O	18+60.38	41.4 RT	795.56
P	18+61.10	36.3 RT	795.62
Q	18+74.25	19.3 RT	795.68
R	18+79.28	17.2 RT	795.75
S	18+92.34	45.1 RT	796.67
T	18+92.33	50.1 RT	796.77
U	18+77.31	60.1 RT	796.91
V	18+82.31	60.1 RT	796.95
W	18+79.30	20.6 RT	795.74



NOTE:
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*** = MATCH EXISTING PAVEMENT

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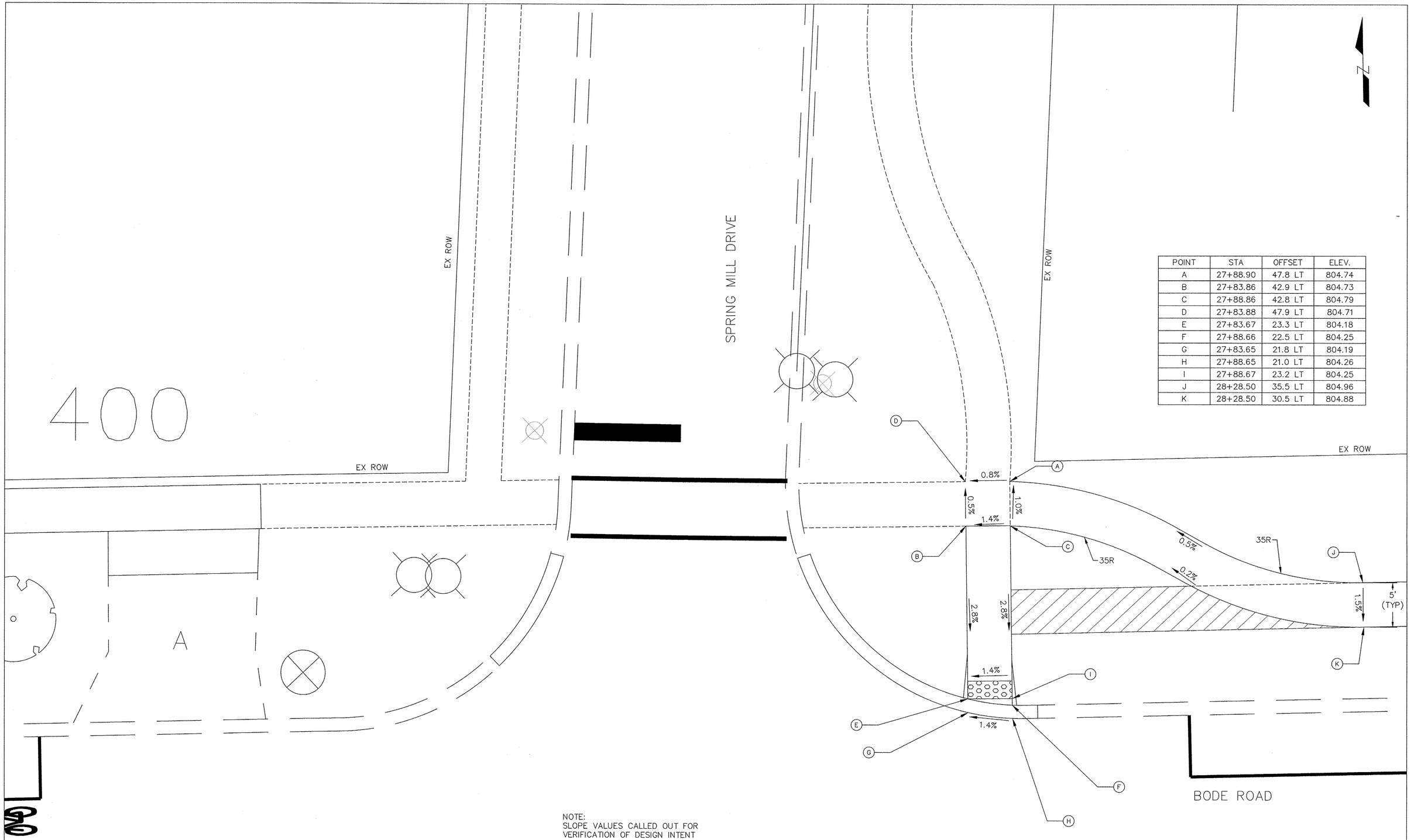
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 5' | SHEET NO. 3 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	34
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	27+88.90	47.8 LT	804.74
B	27+83.86	42.9 LT	804.73
C	27+88.86	42.8 LT	804.79
D	27+83.88	47.9 LT	804.71
E	27+83.67	23.3 LT	804.18
F	27+88.66	22.5 LT	804.25
G	27+83.65	21.8 LT	804.19
H	27+88.65	21.0 LT	804.26
I	27+88.67	23.2 LT	804.25
J	28+28.50	35.5 LT	804.96
K	28+28.50	30.5 LT	804.88

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 5' | SHEET NO. 4 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	35
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

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*** = MATCH EXISTING PAVEMENT

POINT	STA	OFFSET	ELEV.
A	31+82.97	17.2 LT	802.90
B	31+88.31	18.5 LT	802.79
C	32+08.07	29.5 LT	802.35
D	32+12.75	34.3 LT	802.25
E	31+87.65	30.3 LT	803.34
F	31+93.33	29.9 LT	802.25
G	31+90.72	35.0 LT	802.15
H	31+96.63	34.8 LT	802.95
I	32+06.05	57.8 LT	802.85
J	32+09.87	54.5 LT	802.78
K	31+48.35 (PC)	21.0 LT	***
L	31+55.70 (PT)	19.7 LT	***
M	31+65.05 (PC)	16.3 LT	***
N	31+72.41 (PT)	15.0 LT	***
O	31+74.47 (PC)	15.0 LT	***
P	32+21.80 (PT)	46.2 LT	***
Q	31+82.74	15.7 LT	802.91
R	31+87.97	16.8 LT	802.80
S	31+10.20	29.4 LT	802.36
T	32+14.64	34.3 LT	802.26
U	31+37.83	38.8 LT	804.27
V	31+38.50	33.9 LT	804.17
W	31+83.46	19.7 LT	802.89
X	32+08.17	34.5 LT	802.25

POINT	STA	OFFSET	ELEV.
A	32+64.26	32.8 LT	801.36
B	32+72.17	23.1 LT	802.46
E	32+77.64	32.4 LT	802.46
F	32+87.99	59.6 LT	801.13
G	32+92.35	57.2 LT	801.23
H	33+31.70	49.0 LT	802.40
I	33+31.70	44.0 LT	802.36
J	33+10.00 (PC)	22.0 LT	***
K	33+03.12 (PT)	21.0 LT	***
L	32+93.40 (PC)	17.9 LT	***
M	32+86.00 (PCC)	16.8 LT	***
N	32+64.88 (PCC)	58.0 LT	***
O	32+83.90 (PCC)	77.7 LT	***
P	32+88.53 (PT)	82.7 LT	***
Q	32+73.41	35.0 LT	802.36
R	32+78.29	27.4 LT	802.46
S	32+62.61	32.8 LT	801.37
T	32+71.41	21.8 LT	802.47

EX ROW

EX ROW

GRAND CANYON PARKWAY

GRAND CANYON PARKWAY

BODE ROAD

BODE ROAD

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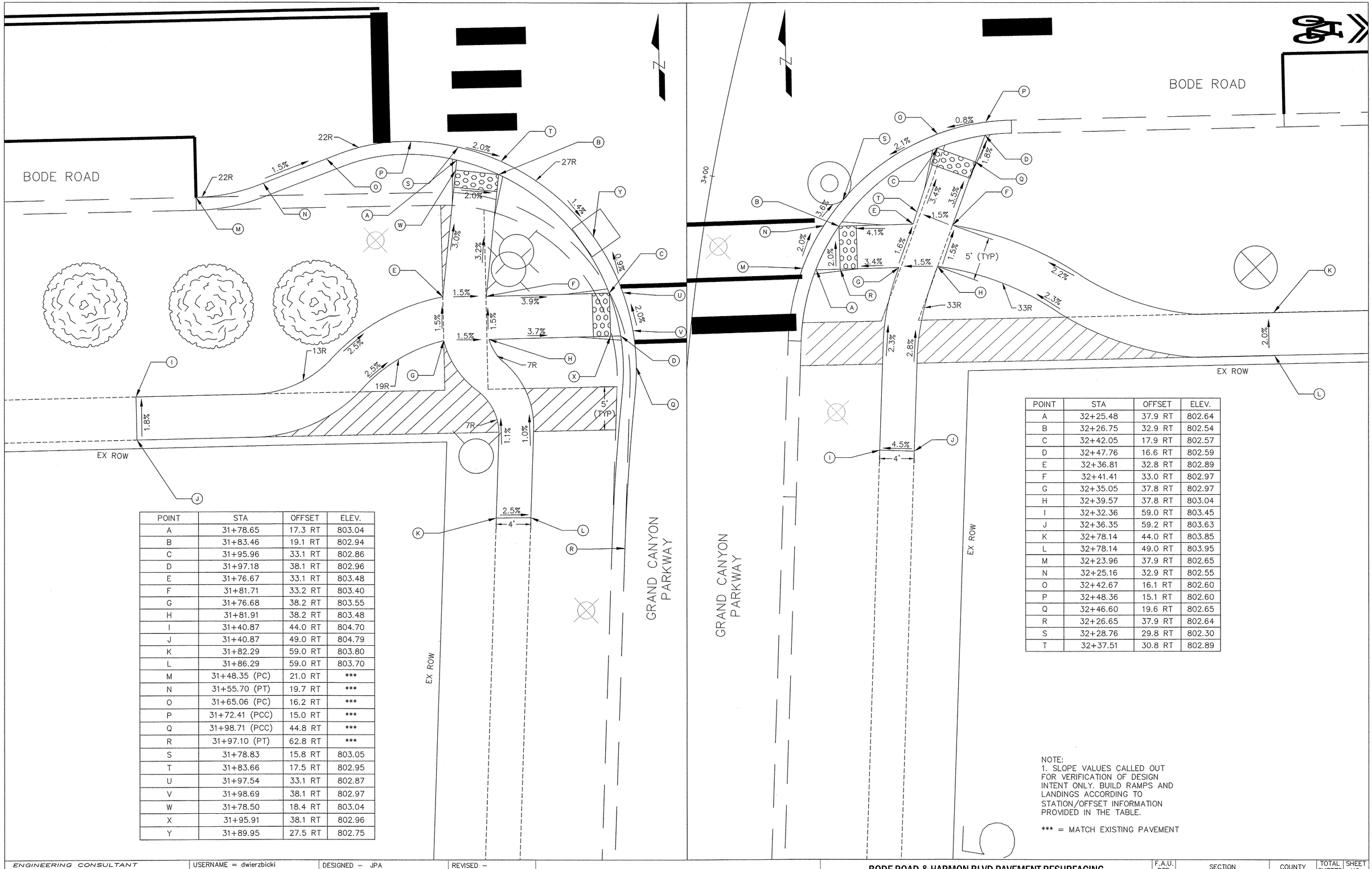
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 5' | SHEET NO. 5 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	36
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	31+78.65	17.3 RT	803.04
B	31+83.46	19.1 RT	802.94
C	31+95.96	33.1 RT	802.86
D	31+97.18	38.1 RT	802.96
E	31+76.67	33.1 RT	803.48
F	31+81.71	33.2 RT	803.40
G	31+76.68	38.2 RT	803.55
H	31+81.91	38.2 RT	803.48
I	31+40.87	44.0 RT	804.70
J	31+40.87	49.0 RT	804.79
K	31+82.29	59.0 RT	803.80
L	31+86.29	59.0 RT	803.70
M	31+48.35 (PC)	21.0 RT	***
N	31+55.70 (PT)	19.7 RT	***
O	31+65.06 (PC)	16.2 RT	***
P	31+72.41 (PCC)	15.0 RT	***
Q	31+98.71 (PCC)	44.8 RT	***
R	31+97.10 (PT)	62.8 RT	***
S	31+78.83	15.8 RT	803.05
T	31+83.66	17.5 RT	802.95
U	31+97.54	33.1 RT	802.87
V	31+98.69	38.1 RT	802.97
W	31+78.50	18.4 RT	803.04
X	31+95.91	38.1 RT	802.96
Y	31+89.95	27.5 RT	802.75

POINT	STA	OFFSET	ELEV.
A	32+25.48	37.9 RT	802.64
B	32+26.75	32.9 RT	802.54
C	32+42.05	17.9 RT	802.57
D	32+47.76	16.6 RT	802.59
E	32+36.81	32.8 RT	802.89
F	32+41.41	33.0 RT	802.97
G	32+35.05	37.8 RT	802.97
H	32+39.57	37.8 RT	803.04
I	32+32.36	59.0 RT	803.45
J	32+36.35	59.2 RT	803.63
K	32+78.14	44.0 RT	803.85
L	32+78.14	49.0 RT	803.95
M	32+23.96	37.9 RT	802.65
N	32+25.16	32.9 RT	802.55
O	32+42.67	16.1 RT	802.60
P	32+48.36	15.1 RT	802.60
Q	32+46.60	19.6 RT	802.65
R	32+26.65	37.9 RT	802.64
S	32+28.76	29.8 RT	802.30
T	32+37.51	30.8 RT	802.89

NOTE:
1. SLOPE VALUES CALLED OUT FOR VERIFICATION OF DESIGN INTENT ONLY. BUILD RAMPS AND LANDINGS ACCORDING TO STATION/OFFSET INFORMATION PROVIDED IN THE TABLE.

*** = MATCH EXISTING PAVEMENT

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USERNAME = dwierzbicki	DESIGNED – JPA	REVISED –
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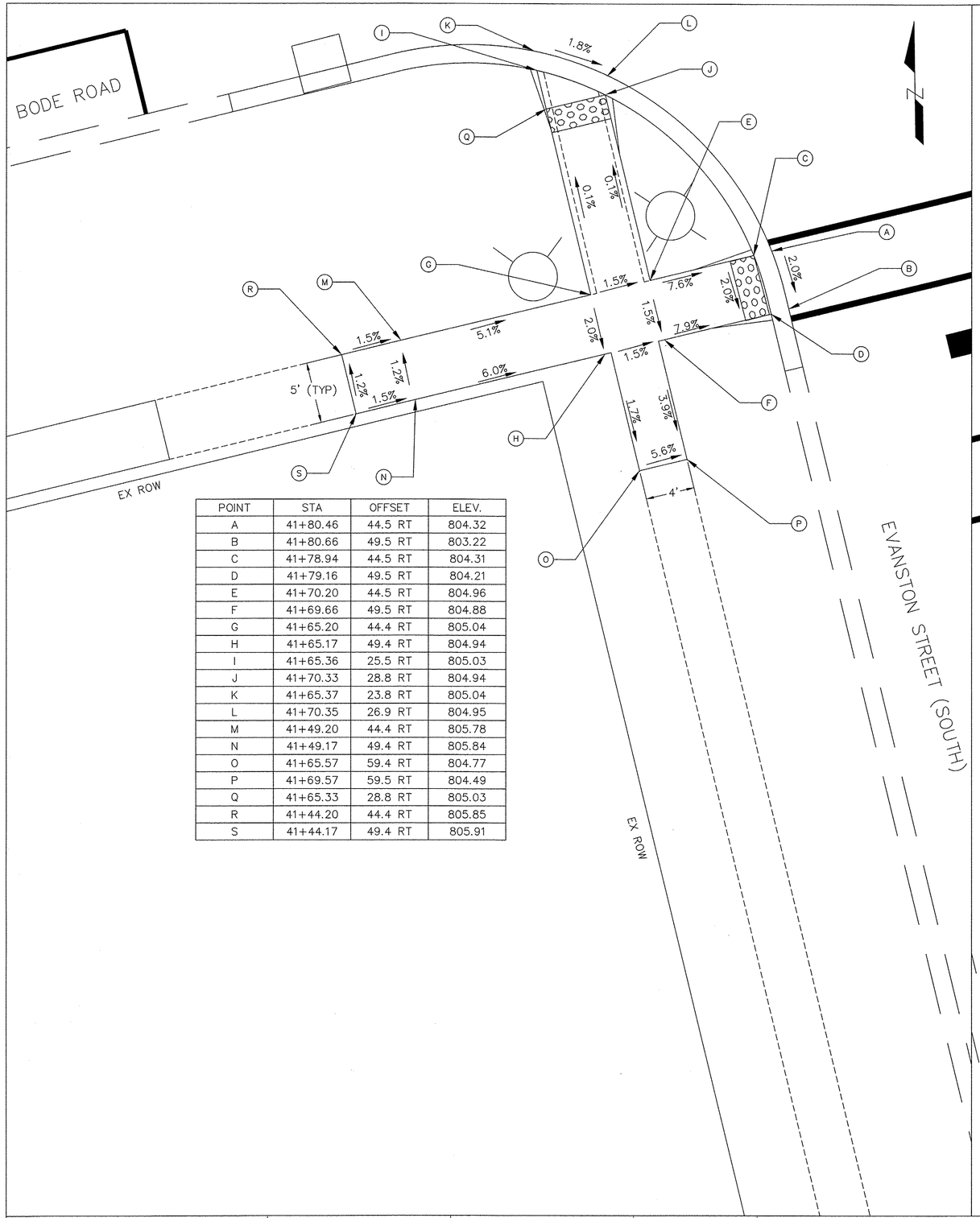
PLOT DATE =	DATE – 01/30/2017	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

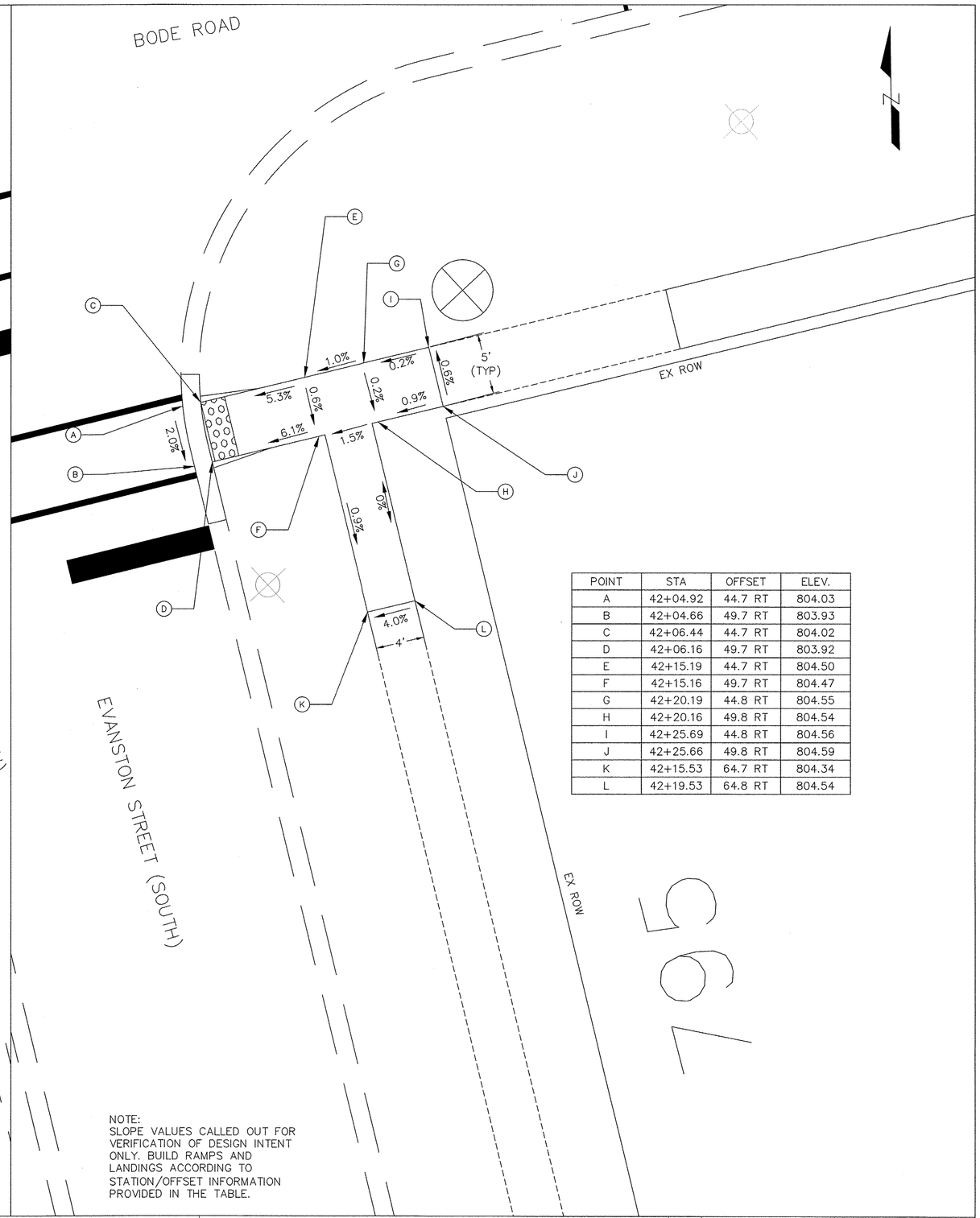
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 5' | SHEET NO. 6 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	37
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	41+80.46	44.5 RT	804.32
B	41+80.66	49.5 RT	803.22
C	41+78.94	44.5 RT	804.31
D	41+79.16	49.5 RT	804.21
E	41+70.20	44.5 RT	804.96
F	41+69.66	49.5 RT	804.88
G	41+65.20	44.4 RT	805.04
H	41+65.17	49.4 RT	804.94
I	41+65.36	25.5 RT	805.03
J	41+70.33	28.8 RT	804.94
K	41+65.37	23.8 RT	805.04
L	41+70.35	26.9 RT	804.95
M	41+49.20	44.4 RT	805.78
N	41+49.17	49.4 RT	805.84
O	41+65.57	59.4 RT	804.77
P	41+69.57	59.5 RT	804.49
Q	41+65.33	28.8 RT	805.03
R	41+44.20	44.4 RT	805.85
S	41+44.17	49.4 RT	805.91



POINT	STA	OFFSET	ELEV.
A	42+04.92	44.7 RT	804.03
B	42+04.66	49.7 RT	803.93
C	42+06.44	44.7 RT	804.02
D	42+06.16	49.7 RT	803.92
E	42+15.19	44.7 RT	804.50
F	42+15.16	49.7 RT	804.47
G	42+20.19	44.8 RT	804.55
H	42+20.16	49.8 RT	804.54
I	42+25.69	44.8 RT	804.56
J	42+25.66	49.8 RT	804.59
K	42+15.53	64.7 RT	804.34
L	42+19.53	64.8 RT	804.54

NOTE:
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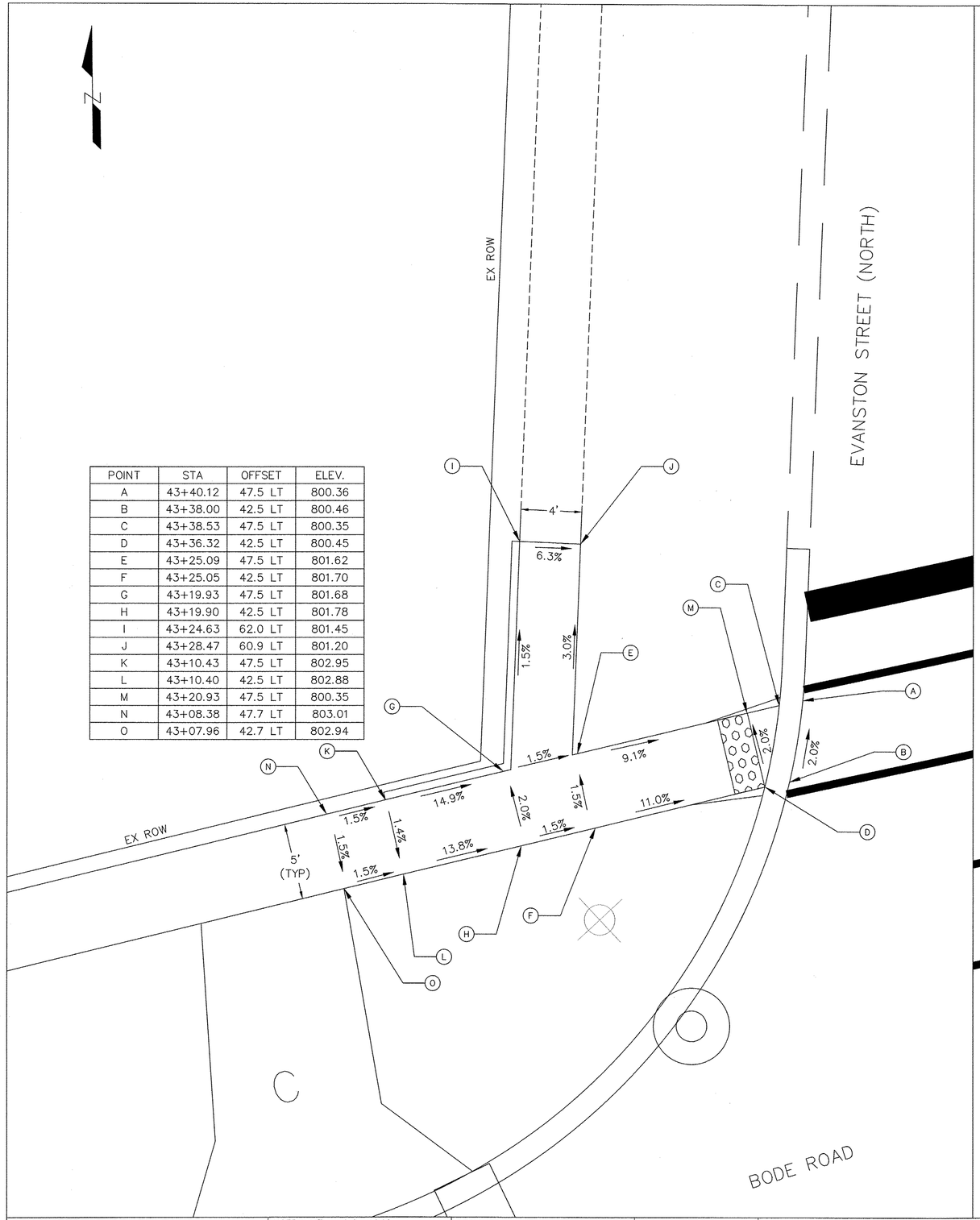
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

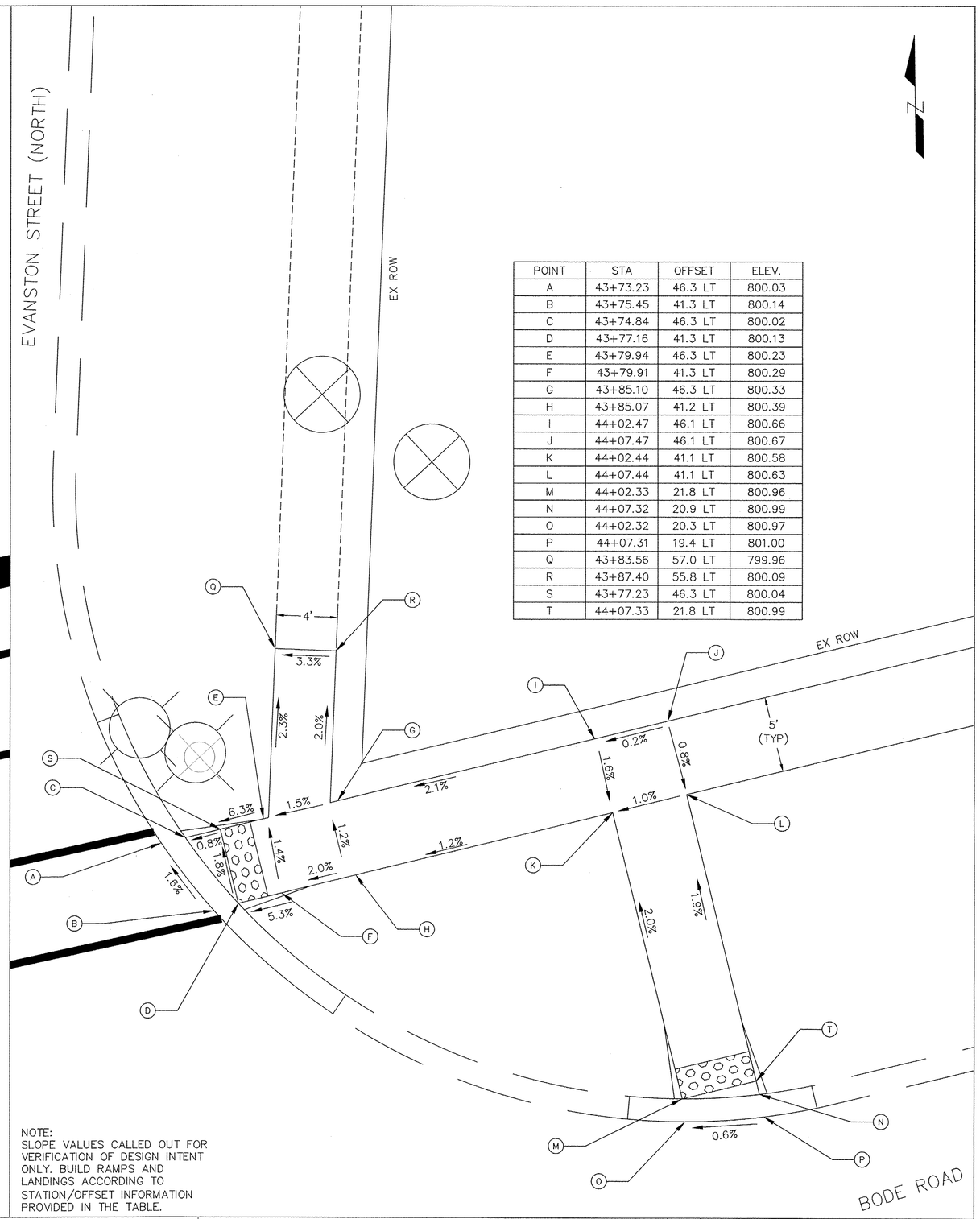
SCALE: 1" = 5' | SHEET NO. 7 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	38
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

POINT	STA	OFFSET	ELEV.
A	43+40.12	47.5 LT	800.36
B	43+38.00	42.5 LT	800.46
C	43+38.53	47.5 LT	800.35
D	43+36.32	42.5 LT	800.45
E	43+25.09	47.5 LT	801.62
F	43+25.05	42.5 LT	801.70
G	43+19.93	47.5 LT	801.68
H	43+19.90	42.5 LT	801.78
I	43+24.63	62.0 LT	801.45
J	43+28.47	60.9 LT	801.20
K	43+10.43	47.5 LT	802.95
L	43+10.40	42.5 LT	802.88
M	43+20.93	47.5 LT	800.35
N	43+08.38	47.7 LT	803.01
O	43+07.96	42.7 LT	802.94



POINT	STA	OFFSET	ELEV.
A	43+73.23	46.3 LT	800.03
B	43+75.45	41.3 LT	800.14
C	43+74.84	46.3 LT	800.02
D	43+77.16	41.3 LT	800.13
E	43+79.94	46.3 LT	800.23
F	43+79.91	41.3 LT	800.29
G	43+85.10	46.3 LT	800.33
H	43+85.07	41.2 LT	800.39
I	44+02.47	46.1 LT	800.66
J	44+07.47	46.1 LT	800.67
K	44+02.44	41.1 LT	800.58
L	44+07.44	41.1 LT	800.63
M	44+02.33	21.8 LT	800.96
N	44+07.32	20.9 LT	800.99
O	44+02.32	20.3 LT	800.97
P	44+07.31	19.4 LT	801.00
Q	43+83.56	57.0 LT	799.96
R	43+87.40	55.8 LT	800.09
S	43+77.23	46.3 LT	800.04
T	44+07.33	21.8 LT	800.99



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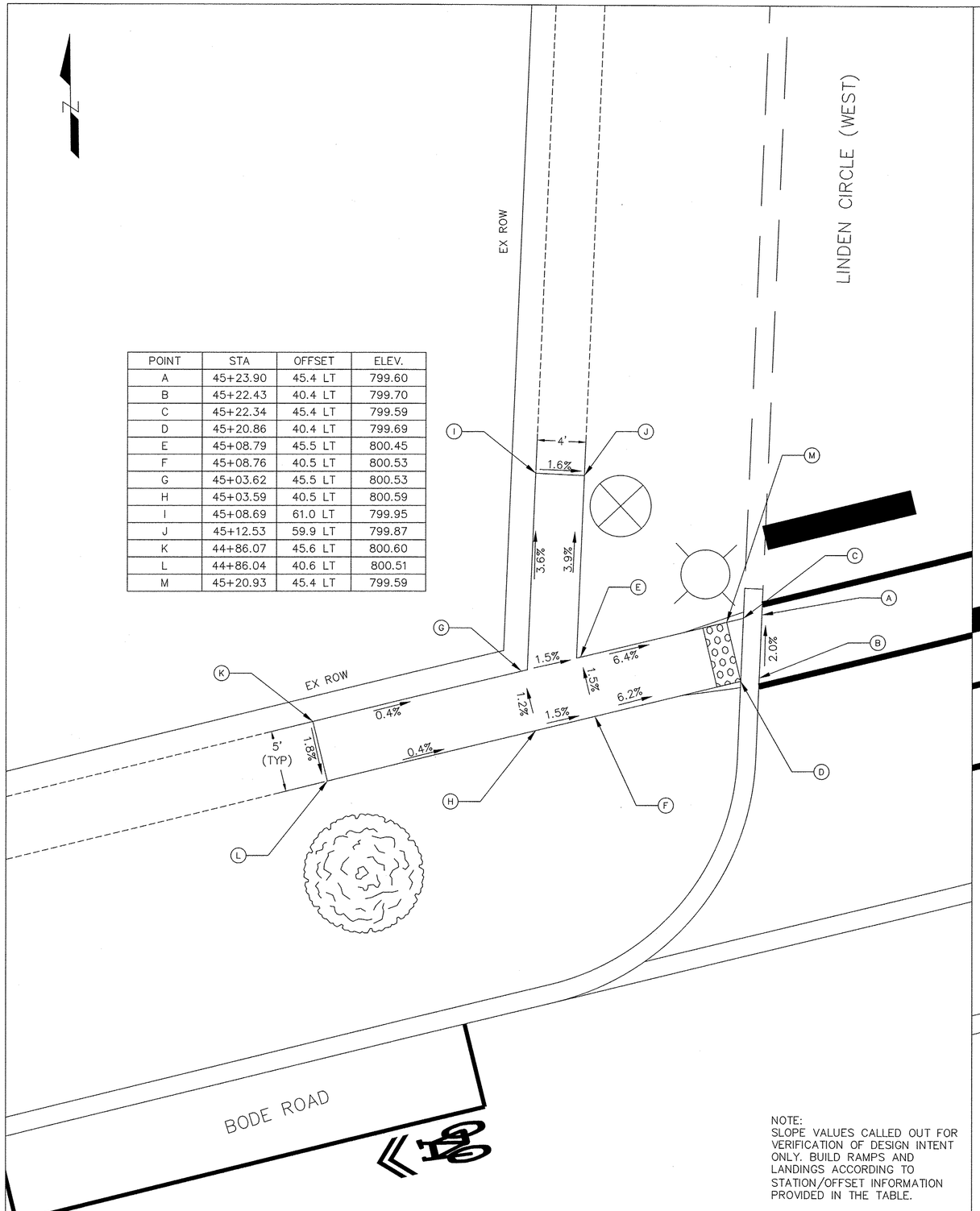
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 4' | SHEET NO. 8 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	39
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

POINT	STA	OFFSET	ELEV.
A	45+23.90	45.4 LT	799.60
B	45+22.43	40.4 LT	799.70
C	45+22.34	45.4 LT	799.59
D	45+20.86	40.4 LT	799.69
E	45+08.79	45.5 LT	800.45
F	45+08.76	40.5 LT	800.53
G	45+03.62	45.5 LT	800.53
H	45+03.59	40.5 LT	800.59
I	45+08.69	61.0 LT	799.95
J	45+12.53	59.9 LT	799.87
K	44+86.07	45.6 LT	800.60
L	44+86.04	40.6 LT	800.51
M	45+20.93	45.4 LT	799.59



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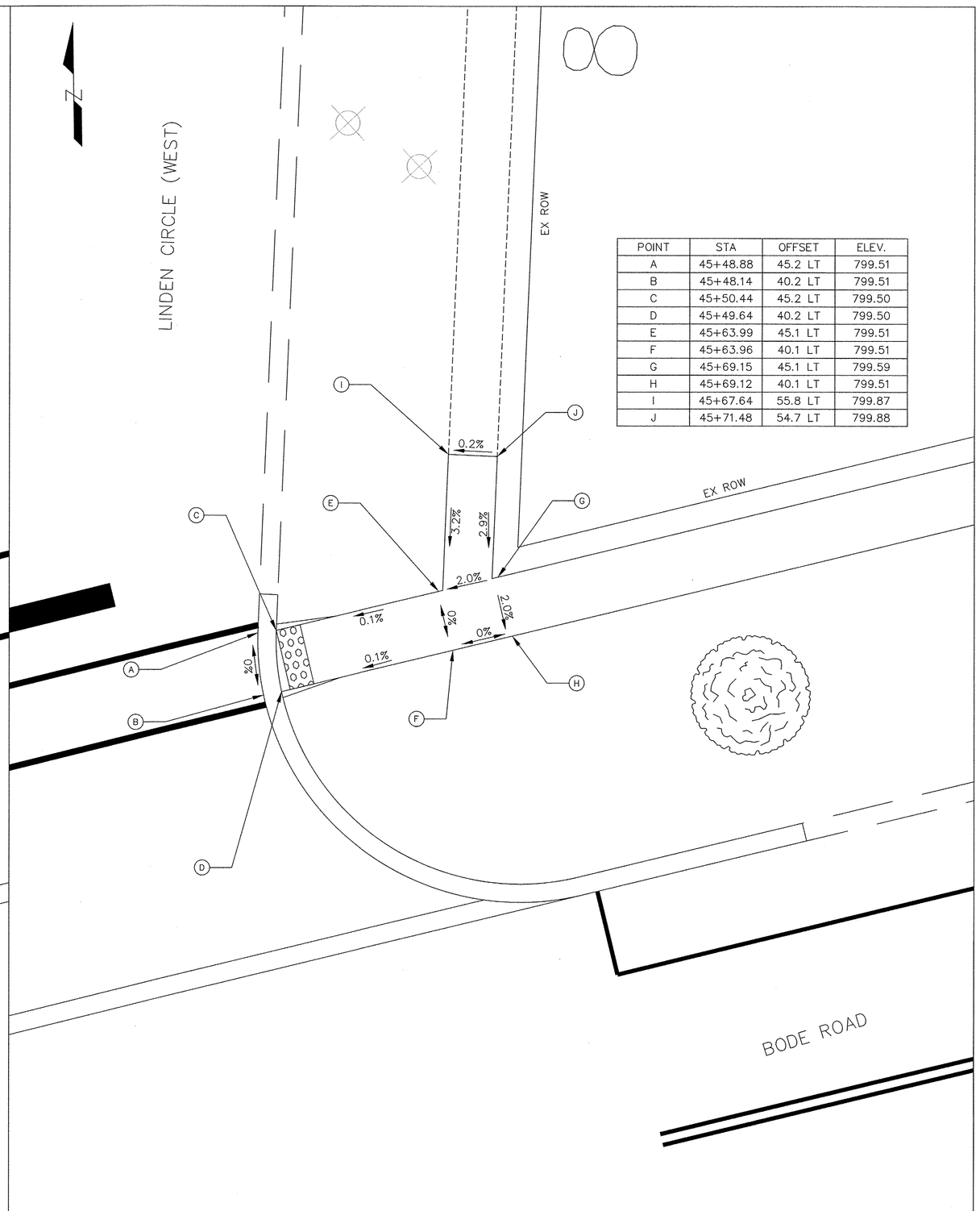
POINT	STA	OFFSET	ELEV.
A	45+48.88	45.2 LT	799.51
B	45+48.14	40.2 LT	799.51
C	45+50.44	45.2 LT	799.50
D	45+49.64	40.2 LT	799.50
E	45+63.99	45.1 LT	799.51
F	45+63.96	40.1 LT	799.51
G	45+69.15	45.1 LT	799.59
H	45+69.12	40.1 LT	799.51
I	45+67.64	55.8 LT	799.87
J	45+71.48	54.7 LT	799.88



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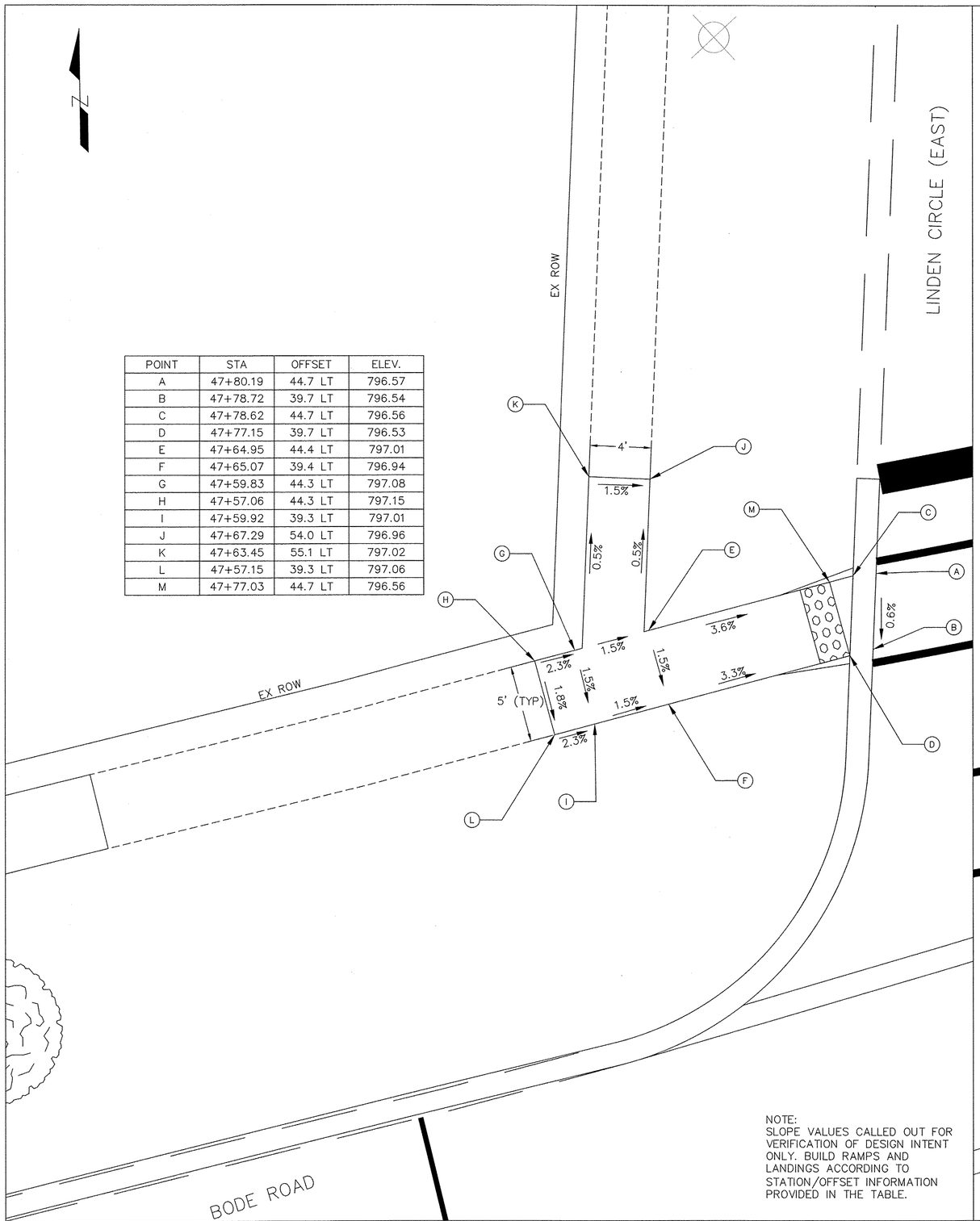
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 5' | SHEET NO. 9 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	40
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

POINT	STA	OFFSET	ELEV.
A	47+80.19	44.7 LT	796.57
B	47+78.72	39.7 LT	796.54
C	47+78.62	44.7 LT	796.56
D	47+77.15	39.7 LT	796.53
E	47+64.95	44.4 LT	797.01
F	47+65.07	39.4 LT	796.94
G	47+59.83	44.3 LT	797.08
H	47+57.06	44.3 LT	797.15
I	47+59.92	39.3 LT	797.01
J	47+67.29	54.0 LT	796.96
K	47+63.45	55.1 LT	797.02
L	47+57.15	39.3 LT	797.06
M	47+77.03	44.7 LT	796.56



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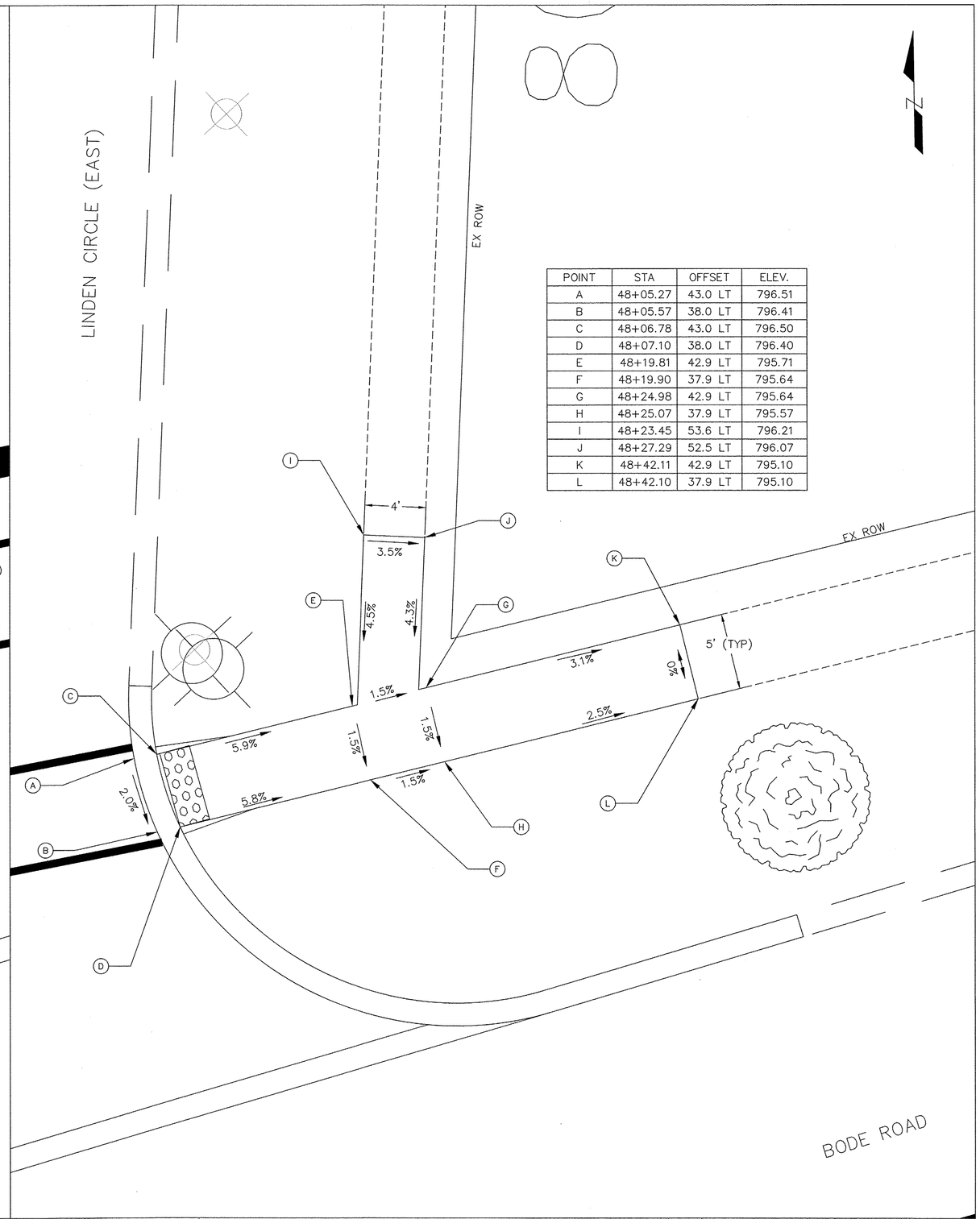
POINT	STA	OFFSET	ELEV.
A	48+05.27	43.0 LT	796.51
B	48+05.57	38.0 LT	796.41
C	48+06.78	43.0 LT	796.50
D	48+07.10	38.0 LT	796.40
E	48+19.81	42.9 LT	795.71
F	48+19.90	37.9 LT	795.64
G	48+24.98	42.9 LT	795.64
H	48+25.07	37.9 LT	795.57
I	48+23.45	53.6 LT	796.21
J	48+27.29	52.5 LT	796.07
K	48+42.11	42.9 LT	795.10
L	48+42.10	37.9 LT	795.10



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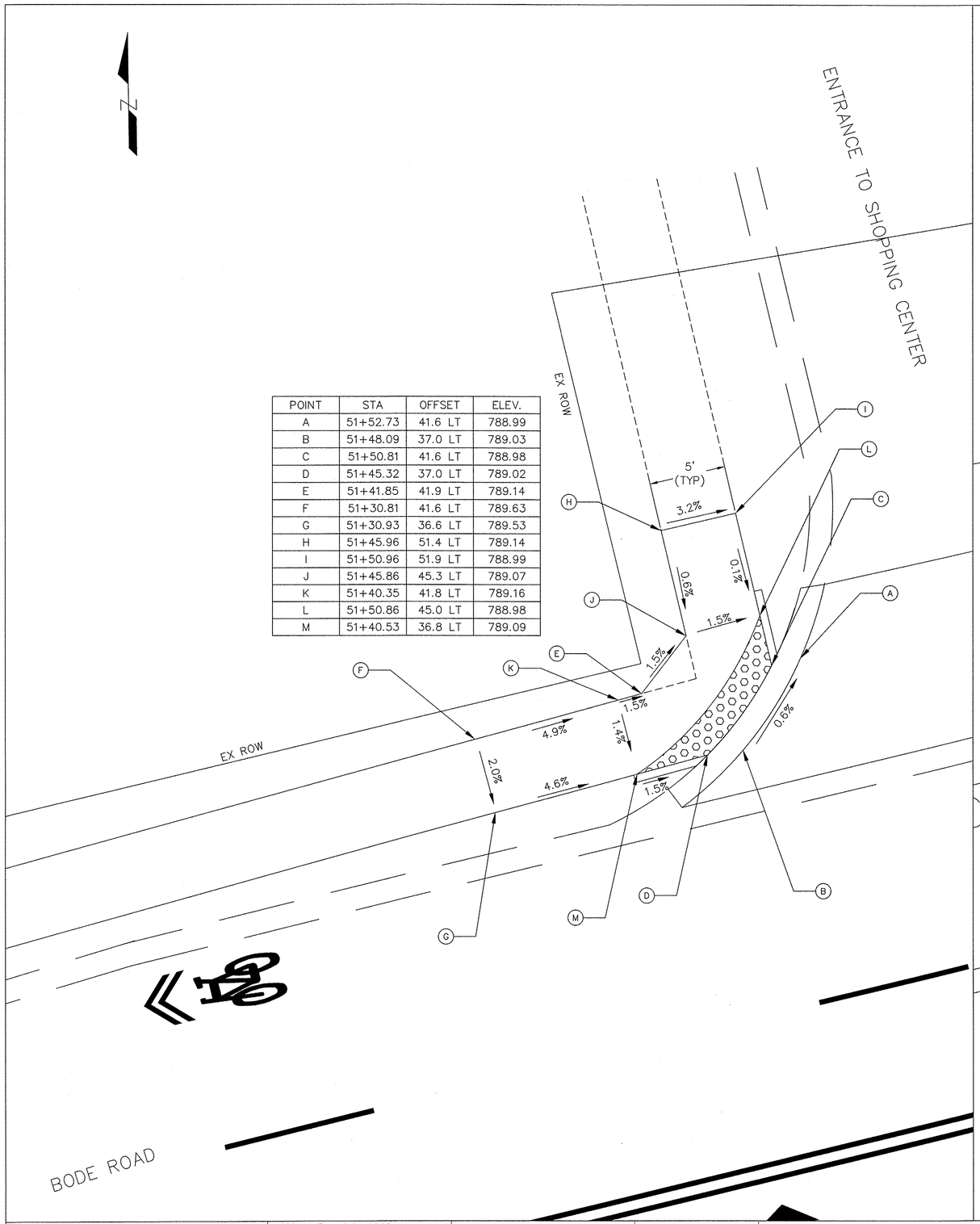
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

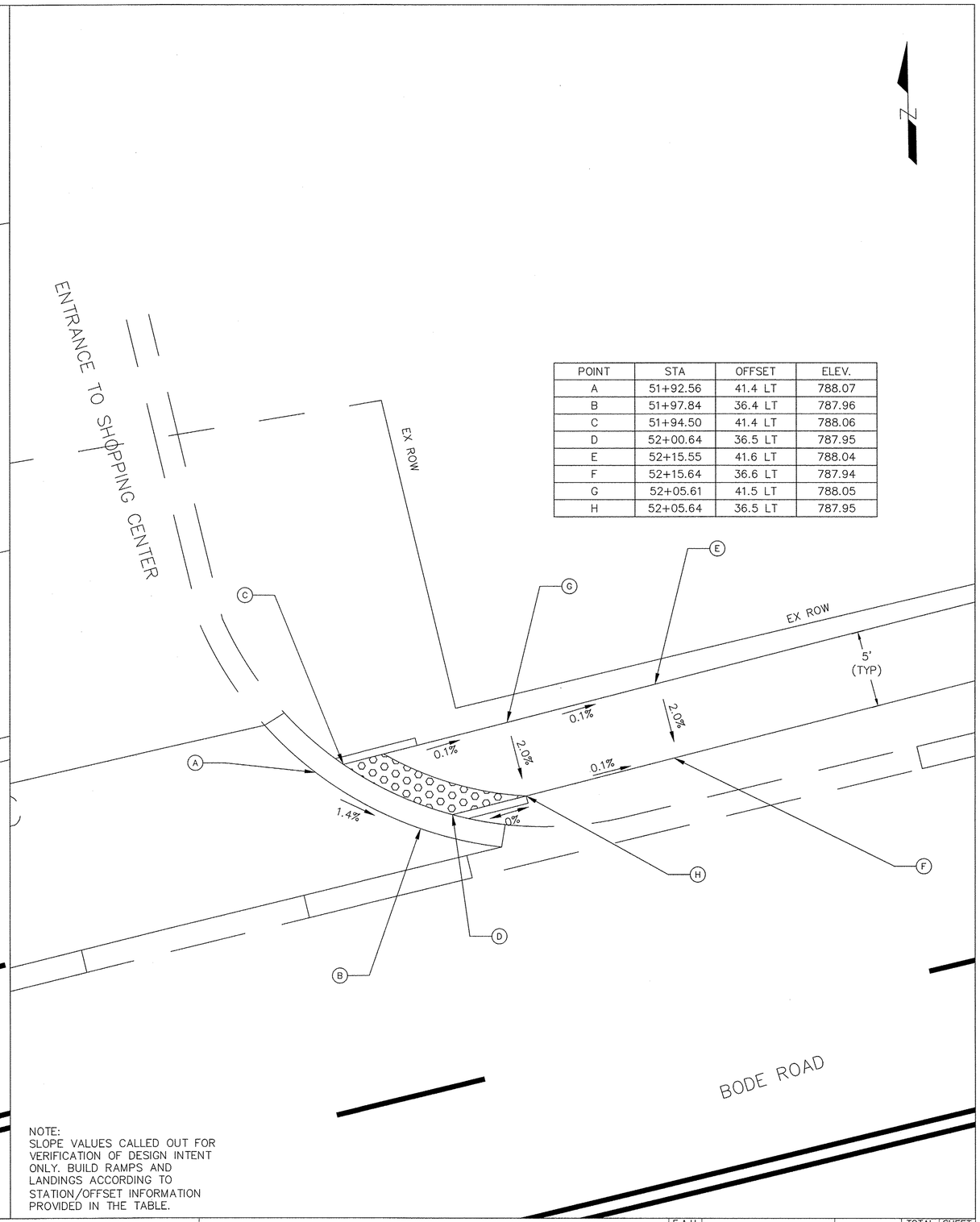
SCALE: 1" = 4' | SHEET NO. 10 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	41
	*1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

POINT	STA	OFFSET	ELEV.
A	51+52.73	41.6 LT	788.99
B	51+48.09	37.0 LT	789.03
C	51+50.81	41.6 LT	788.98
D	51+45.32	37.0 LT	789.02
E	51+41.85	41.9 LT	789.14
F	51+30.81	41.6 LT	789.63
G	51+30.93	36.6 LT	789.53
H	51+45.96	51.4 LT	789.14
I	51+50.96	51.9 LT	788.99
J	51+45.86	45.3 LT	789.07
K	51+40.35	41.8 LT	789.16
L	51+50.86	45.0 LT	788.98
M	51+40.53	36.8 LT	789.09



POINT	STA	OFFSET	ELEV.
A	51+92.56	41.4 LT	788.07
B	51+97.84	36.4 LT	787.96
C	51+94.50	41.4 LT	788.06
D	52+00.64	36.5 LT	787.95
E	52+15.55	41.6 LT	788.04
F	52+15.64	36.6 LT	787.94
G	52+05.61	41.5 LT	788.05
H	52+05.64	36.5 LT	787.95



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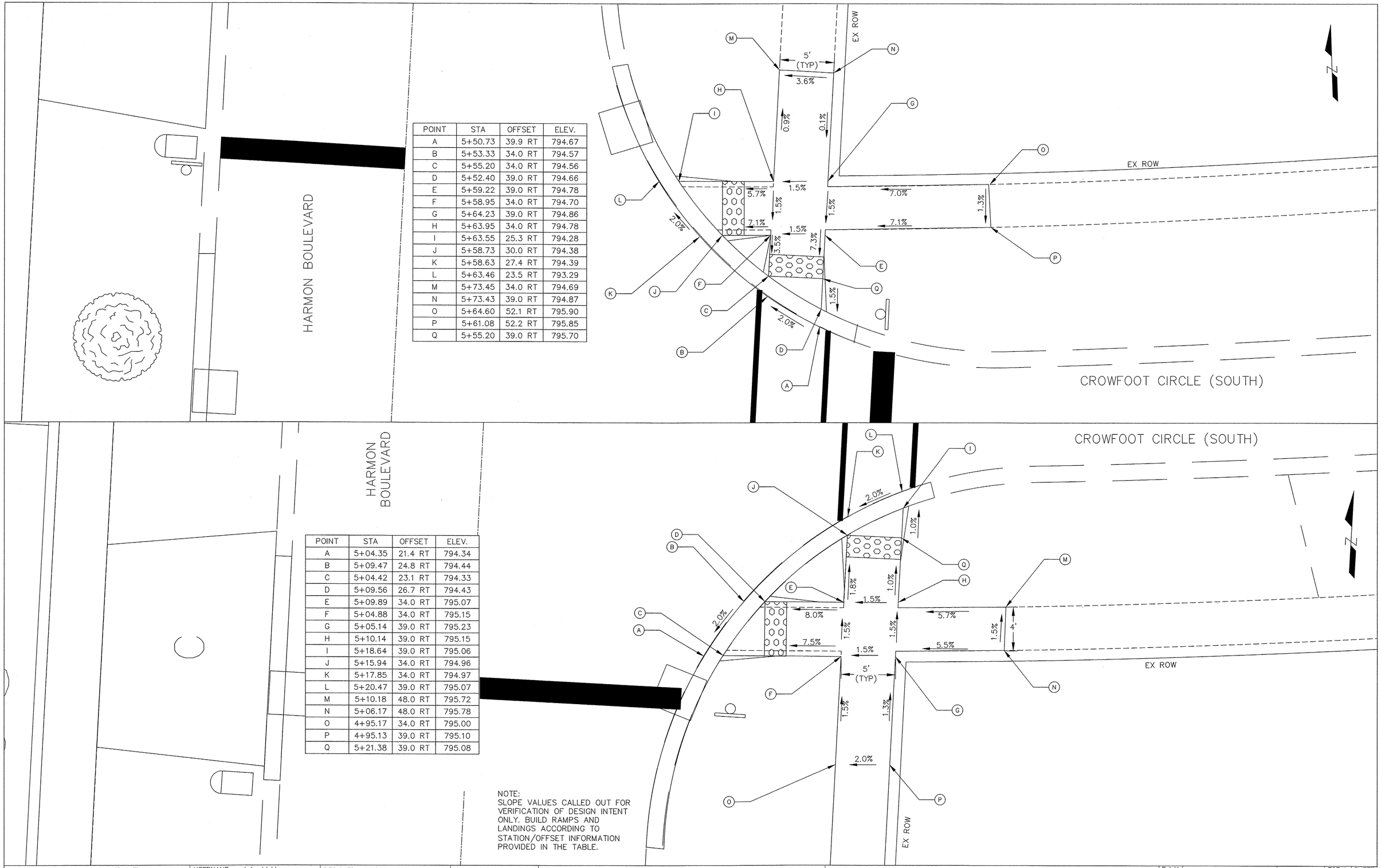
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - BODE ROAD

SCALE: 1" = 4' | SHEET NO. 11 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	42
	*1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	5+50.73	39.9 RT	794.67
B	5+53.33	34.0 RT	794.57
C	5+55.20	34.0 RT	794.56
D	5+52.40	39.0 RT	794.66
E	5+59.22	39.0 RT	794.78
F	5+58.95	34.0 RT	794.70
G	5+64.23	39.0 RT	794.86
H	5+63.95	34.0 RT	794.78
I	5+63.55	25.3 RT	794.28
J	5+58.73	30.0 RT	794.38
K	5+58.63	27.4 RT	794.39
L	5+63.46	23.5 RT	793.29
M	5+73.45	34.0 RT	794.69
N	5+73.43	39.0 RT	794.87
O	5+64.60	52.1 RT	795.90
P	5+61.08	52.2 RT	795.85
Q	5+55.20	39.0 RT	795.70

POINT	STA	OFFSET	ELEV.
A	5+04.35	21.4 RT	794.34
B	5+09.47	24.8 RT	794.44
C	5+04.42	23.1 RT	794.33
D	5+09.56	26.7 RT	794.43
E	5+09.89	34.0 RT	795.07
F	5+04.88	34.0 RT	795.15
G	5+05.14	39.0 RT	795.23
H	5+10.14	39.0 RT	795.15
I	5+18.64	39.0 RT	795.06
J	5+15.94	34.0 RT	794.96
K	5+17.85	34.0 RT	794.97
L	5+20.47	39.0 RT	795.07
M	5+10.18	48.0 RT	795.72
N	5+06.17	48.0 RT	795.78
O	4+95.17	34.0 RT	795.00
P	4+95.13	39.0 RT	795.10
Q	5+21.38	39.0 RT	795.08

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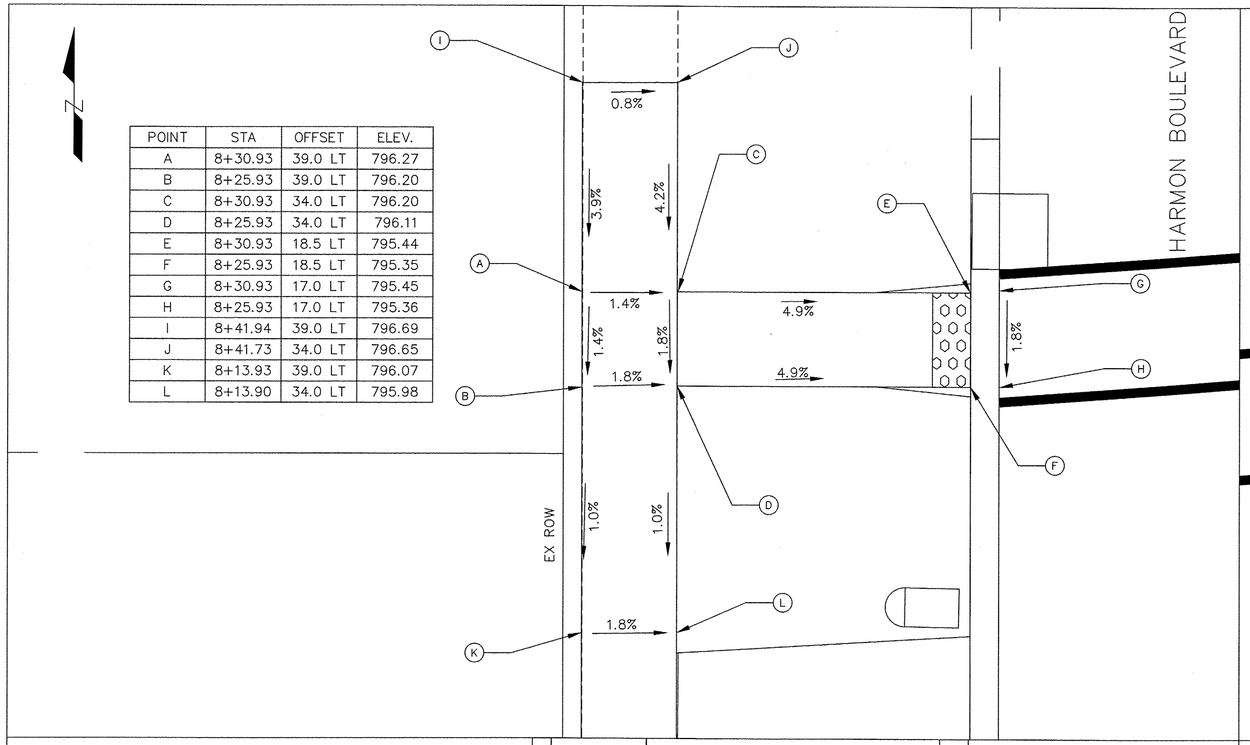
DEPARTMENT OF TRANSPORTATION

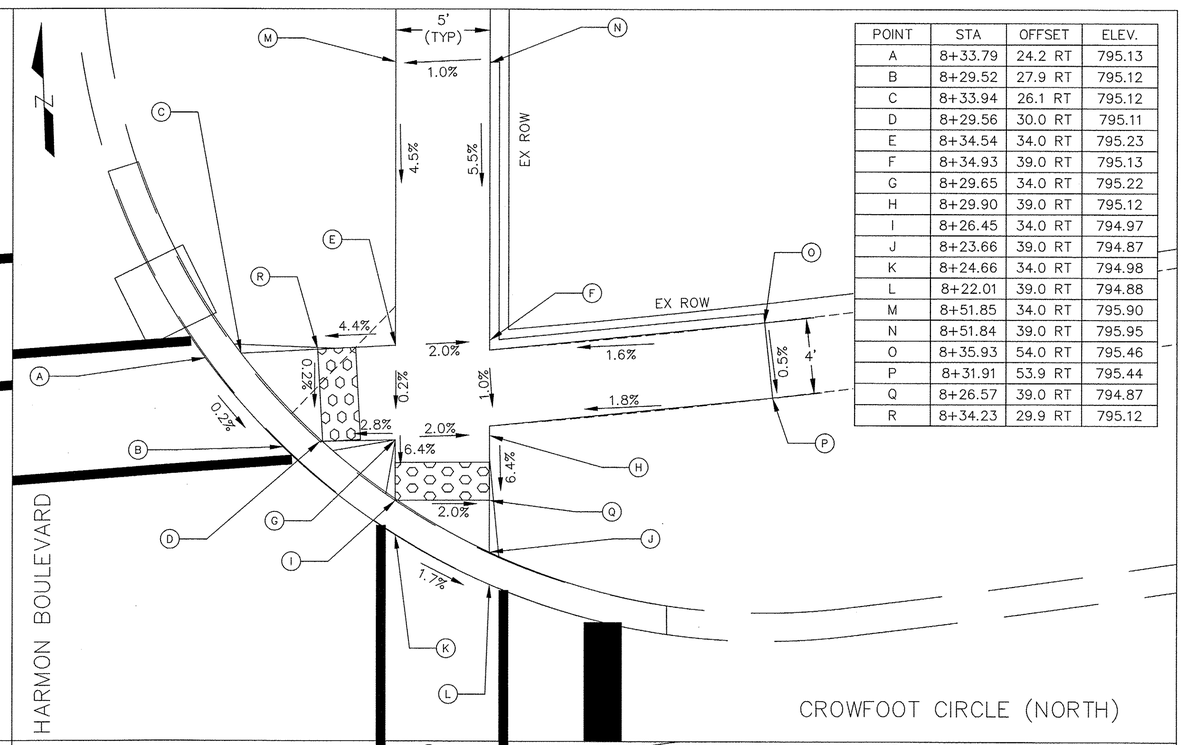
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - HARMON BOULEVARD

SCALE: 1" = 4' | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

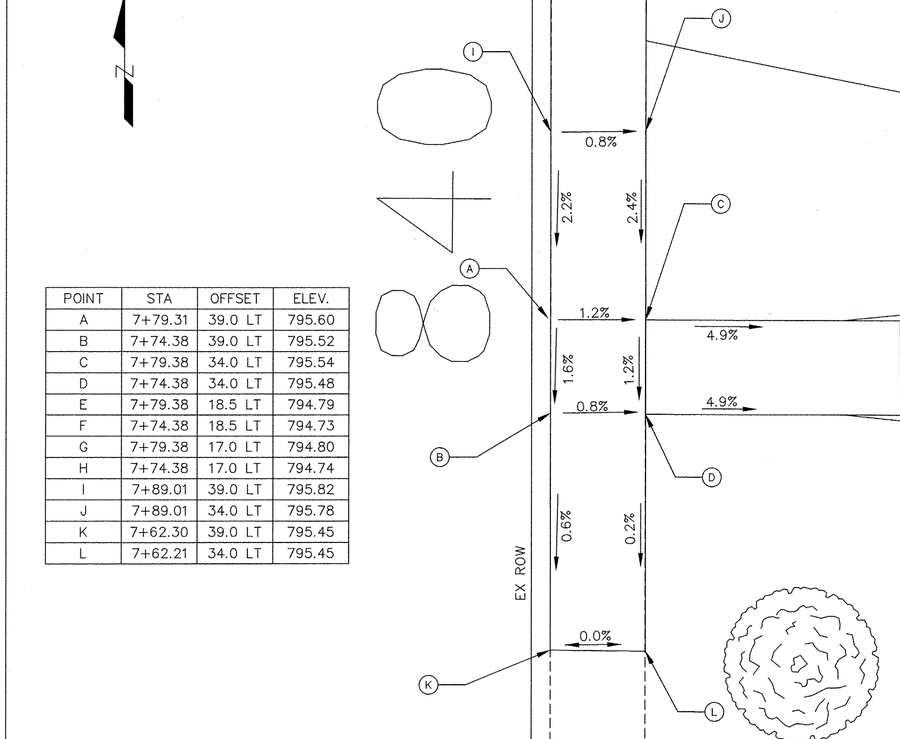
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	43
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	8+30.93	39.0 LT	796.27
B	8+25.93	39.0 LT	796.20
C	8+30.93	34.0 LT	796.20
D	8+25.93	34.0 LT	796.11
E	8+30.93	18.5 LT	795.44
F	8+25.93	18.5 LT	795.35
G	8+30.93	17.0 LT	795.45
H	8+25.93	17.0 LT	795.36
I	8+41.94	39.0 LT	796.69
J	8+41.73	34.0 LT	796.65
K	8+13.93	39.0 LT	796.07
L	8+13.90	34.0 LT	795.98

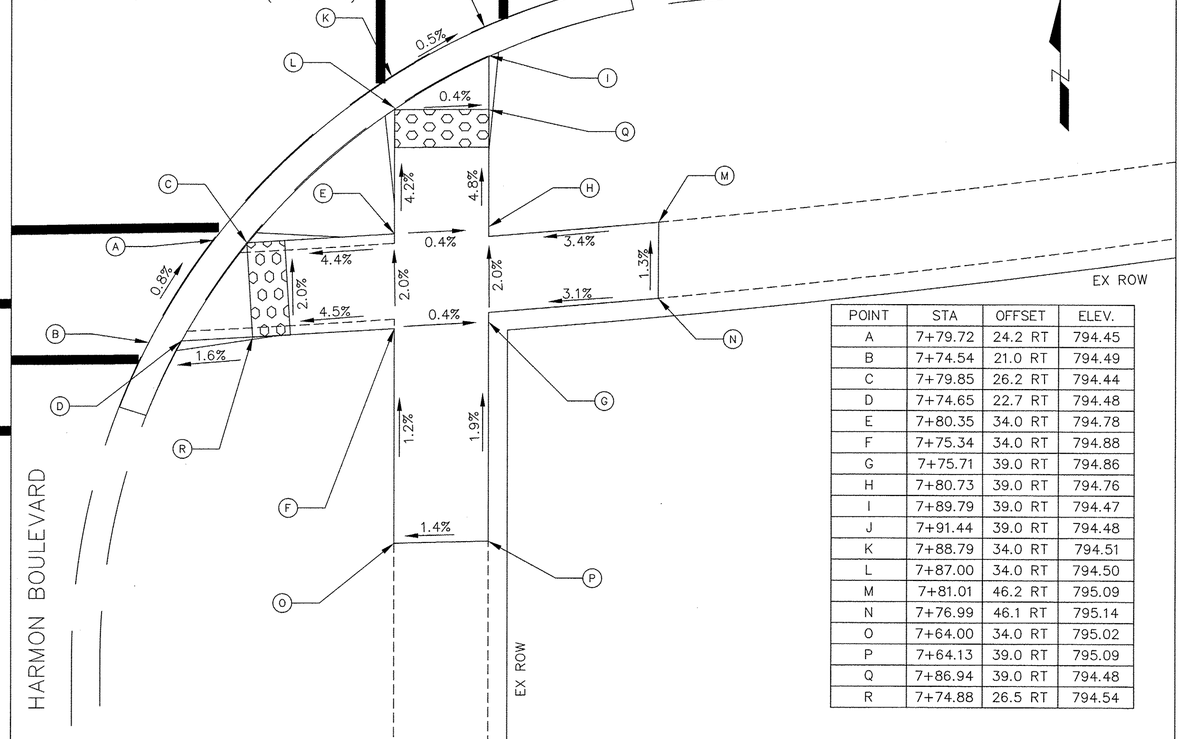


POINT	STA	OFFSET	ELEV.
A	8+33.79	24.2 RT	795.13
B	8+29.52	27.9 RT	795.12
C	8+33.94	26.1 RT	795.12
D	8+29.56	30.0 RT	795.11
E	8+34.54	34.0 RT	795.23
F	8+34.93	39.0 RT	795.13
G	8+29.65	34.0 RT	795.22
H	8+29.90	39.0 RT	795.12
I	8+26.45	34.0 RT	794.97
J	8+23.66	39.0 RT	794.87
K	8+24.66	34.0 RT	794.98
L	8+22.01	39.0 RT	794.88
M	8+51.85	34.0 RT	795.90
N	8+51.84	39.0 RT	795.95
O	8+35.93	54.0 RT	795.46
P	8+31.91	53.9 RT	795.44
Q	8+26.57	39.0 RT	794.87
R	8+34.23	29.9 RT	795.12



POINT	STA	OFFSET	ELEV.
A	7+79.31	39.0 LT	795.60
B	7+74.38	39.0 LT	795.52
C	7+79.38	34.0 LT	795.54
D	7+74.38	34.0 LT	795.48
E	7+79.38	18.5 LT	794.79
F	7+74.38	18.5 LT	794.73
G	7+79.38	17.0 LT	794.80
H	7+74.38	17.0 LT	794.74
I	7+89.01	39.0 LT	795.82
J	7+89.01	34.0 LT	795.78
K	7+62.30	39.0 LT	795.45
L	7+62.21	34.0 LT	795.45

NOTE:
SLOPE VALUES CALLED OUT FOR VERIFICATION OF DESIGN INTENT ONLY. BUILD RAMPS AND LANDINGS ACCORDING TO STATION/OFFSET INFORMATION PROVIDED IN THE TABLE.



POINT	STA	OFFSET	ELEV.
A	7+79.72	24.2 RT	794.45
B	7+74.54	21.0 RT	794.49
C	7+79.85	26.2 RT	794.44
D	7+74.65	22.7 RT	794.48
E	7+80.35	34.0 RT	794.78
F	7+75.34	34.0 RT	794.88
G	7+75.71	39.0 RT	794.86
H	7+80.73	39.0 RT	794.76
I	7+89.79	39.0 RT	794.47
J	7+91.44	39.0 RT	794.48
K	7+88.79	34.0 RT	794.51
L	7+87.00	34.0 RT	794.50
M	7+81.01	46.2 RT	795.09
N	7+76.99	46.1 RT	795.14
O	7+64.00	34.0 RT	795.02
P	7+64.13	39.0 RT	795.09
Q	7+86.94	39.0 RT	794.48
R	7+74.88	26.5 RT	794.54

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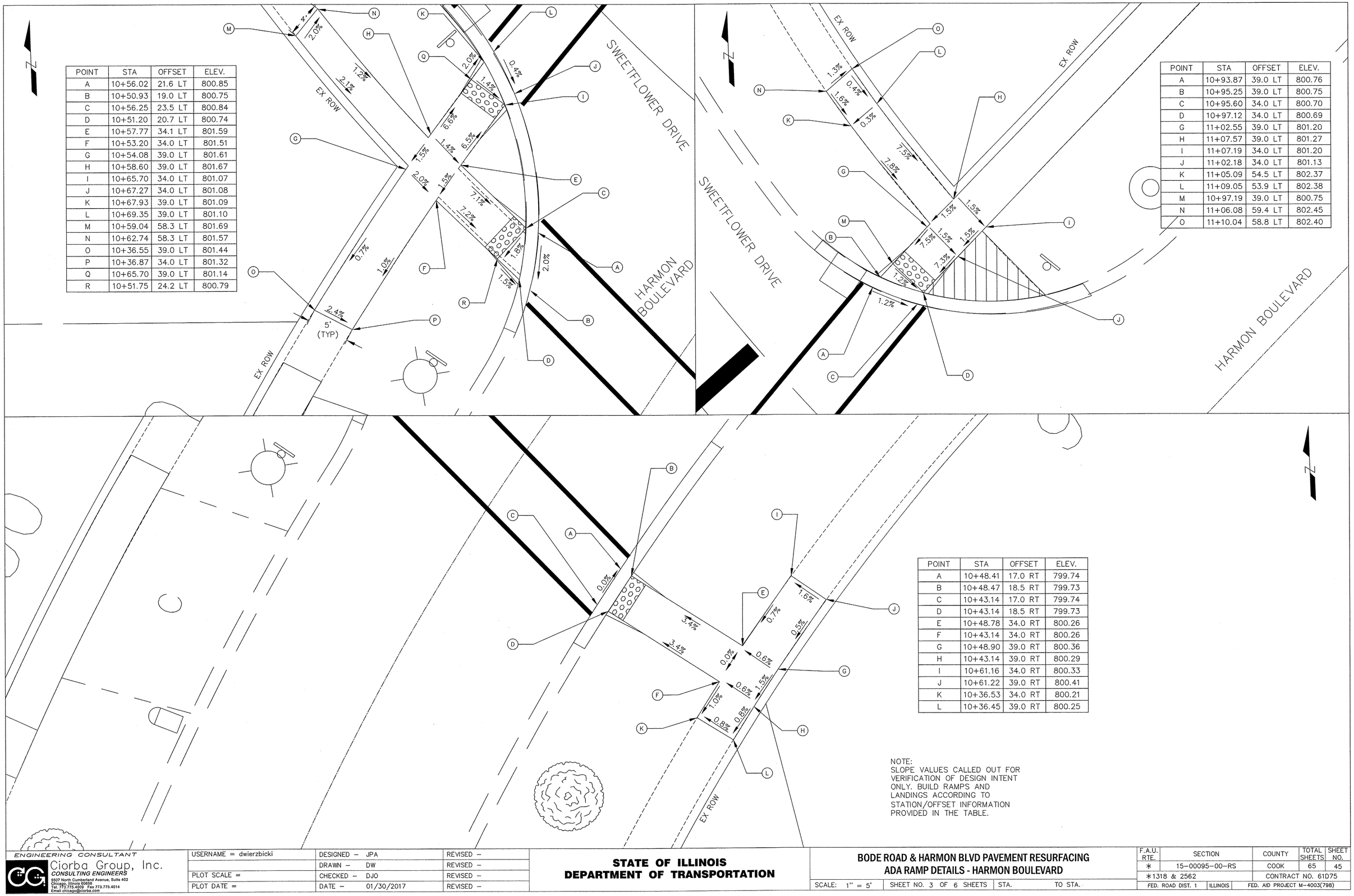
USERNAME = dwierzbicki	DESIGNED – JPA		REVISED –
	DRAWN – DW		REVISED –
PLOT SCALE =	CHECKED – DJO		REVISED –
PLOT DATE =	DATE – 01/30/2017		REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - HARMON BOULEVARD

SCALE: 1" = 4' | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	44
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	10+56.02	21.6 LT	800.85
B	10+50.93	19.0 LT	800.75
C	10+56.25	23.5 LT	800.84
D	10+51.20	20.7 LT	800.74
E	10+57.77	34.1 LT	801.59
F	10+53.20	34.0 LT	801.51
G	10+54.08	39.0 LT	801.61
H	10+58.60	39.0 LT	801.67
I	10+65.70	34.0 LT	801.07
J	10+67.27	34.0 LT	801.08
K	10+67.93	39.0 LT	801.09
L	10+69.35	39.0 LT	801.10
M	10+59.04	58.3 LT	801.69
N	10+62.74	58.3 LT	801.57
O	10+36.55	39.0 LT	801.44
P	10+36.87	34.0 LT	801.32
Q	10+65.70	39.0 LT	801.14
R	10+51.75	24.2 LT	800.79

POINT	STA	OFFSET	ELEV.
A	10+93.87	39.0 LT	800.76
B	10+95.25	39.0 LT	800.75
C	10+95.60	34.0 LT	800.70
D	10+97.12	34.0 LT	800.69
G	11+02.55	39.0 LT	801.20
H	11+07.57	39.0 LT	801.27
I	11+07.19	34.0 LT	801.20
J	11+02.18	34.0 LT	801.13
K	11+05.09	54.5 LT	802.37
L	11+09.05	53.9 LT	802.38
M	10+97.19	39.0 LT	800.75
N	11+06.08	59.4 LT	802.45
O	11+10.04	58.8 LT	802.40

POINT	STA	OFFSET	ELEV.
A	10+48.41	17.0 RT	799.74
B	10+48.47	18.5 RT	799.73
C	10+43.14	17.0 RT	799.74
D	10+43.14	18.5 RT	799.73
E	10+48.78	34.0 RT	800.26
F	10+43.14	34.0 RT	800.26
G	10+48.90	39.0 RT	800.36
H	10+43.14	39.0 RT	800.29
I	10+61.16	34.0 RT	800.33
J	10+61.22	39.0 RT	800.41
K	10+36.53	34.0 RT	800.21
L	10+36.45	39.0 RT	800.25

NOTE:
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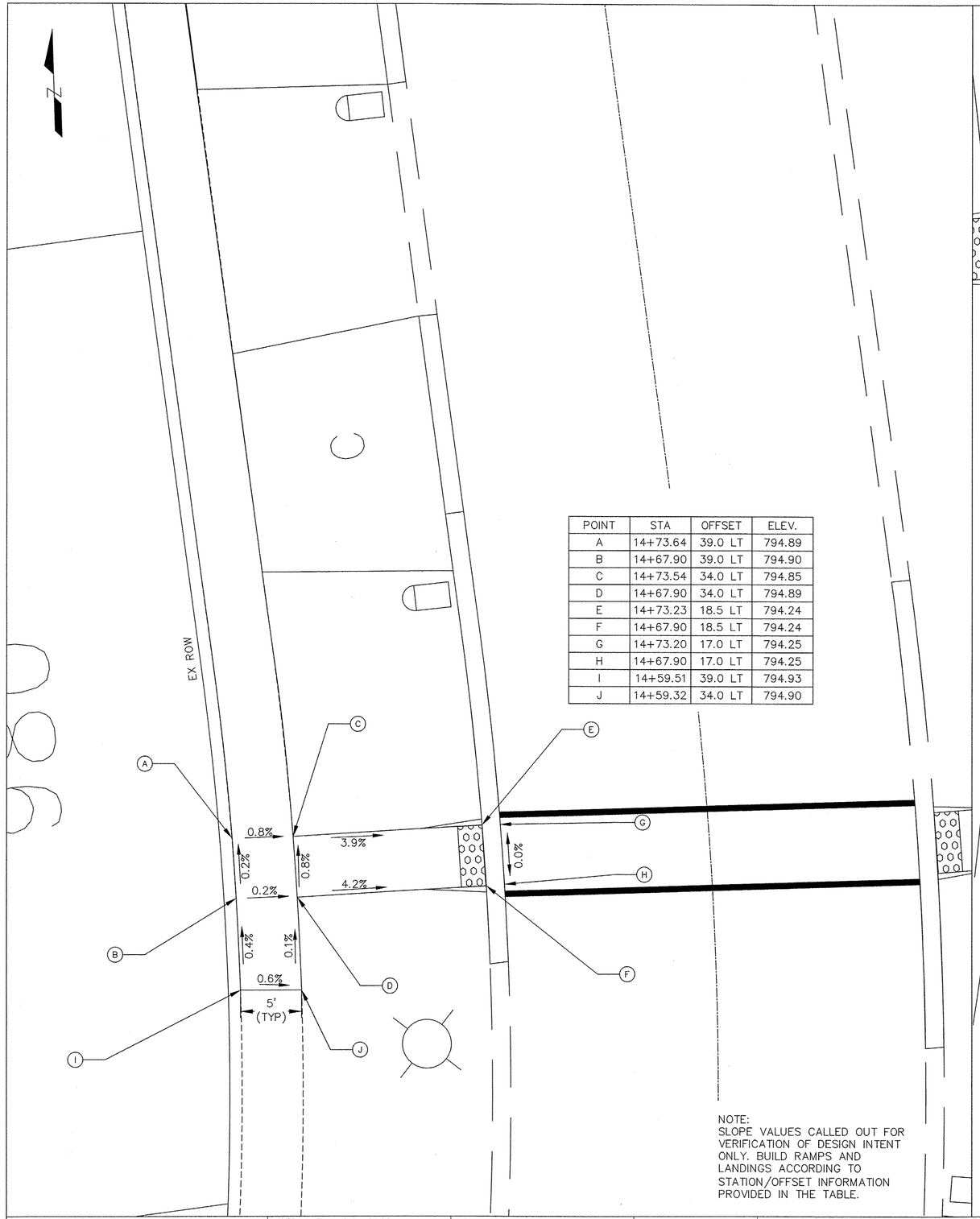
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - HARMON BOULEVARD

SCALE: 1" = 5' | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	45
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	14+73.64	39.0 LT	794.89
B	14+67.90	39.0 LT	794.90
C	14+73.54	34.0 LT	794.85
D	14+67.90	34.0 LT	794.89
E	14+73.23	18.5 LT	794.24
F	14+67.90	18.5 LT	794.24
G	14+73.20	17.0 LT	794.25
H	14+67.90	17.0 LT	794.25
I	14+59.51	39.0 LT	794.93
J	14+59.32	34.0 LT	794.90

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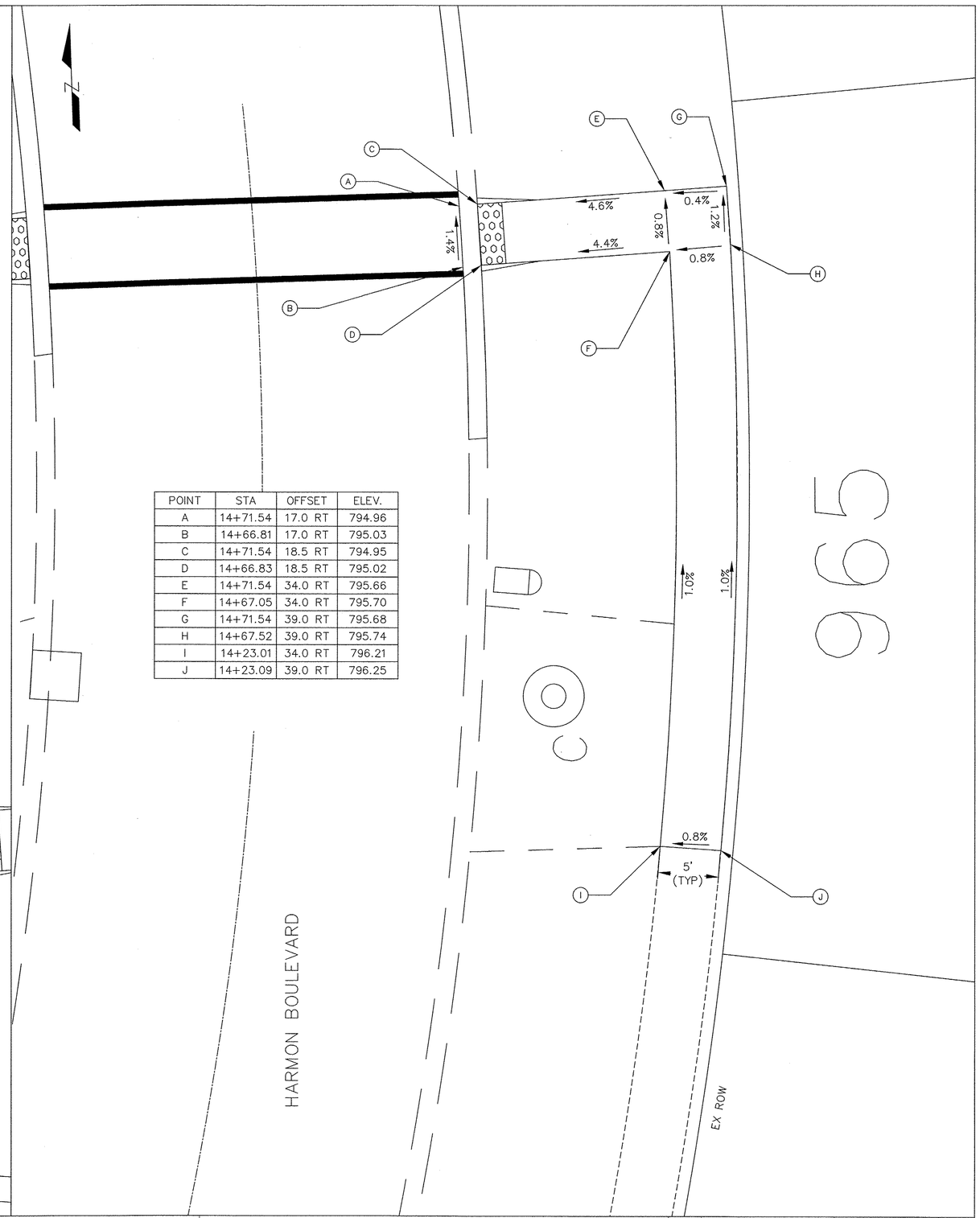

POINT	STA	OFFSET	ELEV.
A	14+71.54	17.0 RT	794.96
B	14+66.81	17.0 RT	795.03
C	14+71.54	18.5 RT	794.95
D	14+66.83	18.5 RT	795.02
E	14+71.54	34.0 RT	795.66
F	14+67.05	34.0 RT	795.70
G	14+71.54	39.0 RT	795.68
H	14+67.52	39.0 RT	795.74
I	14+23.01	34.0 RT	796.21
J	14+23.09	39.0 RT	796.25

965

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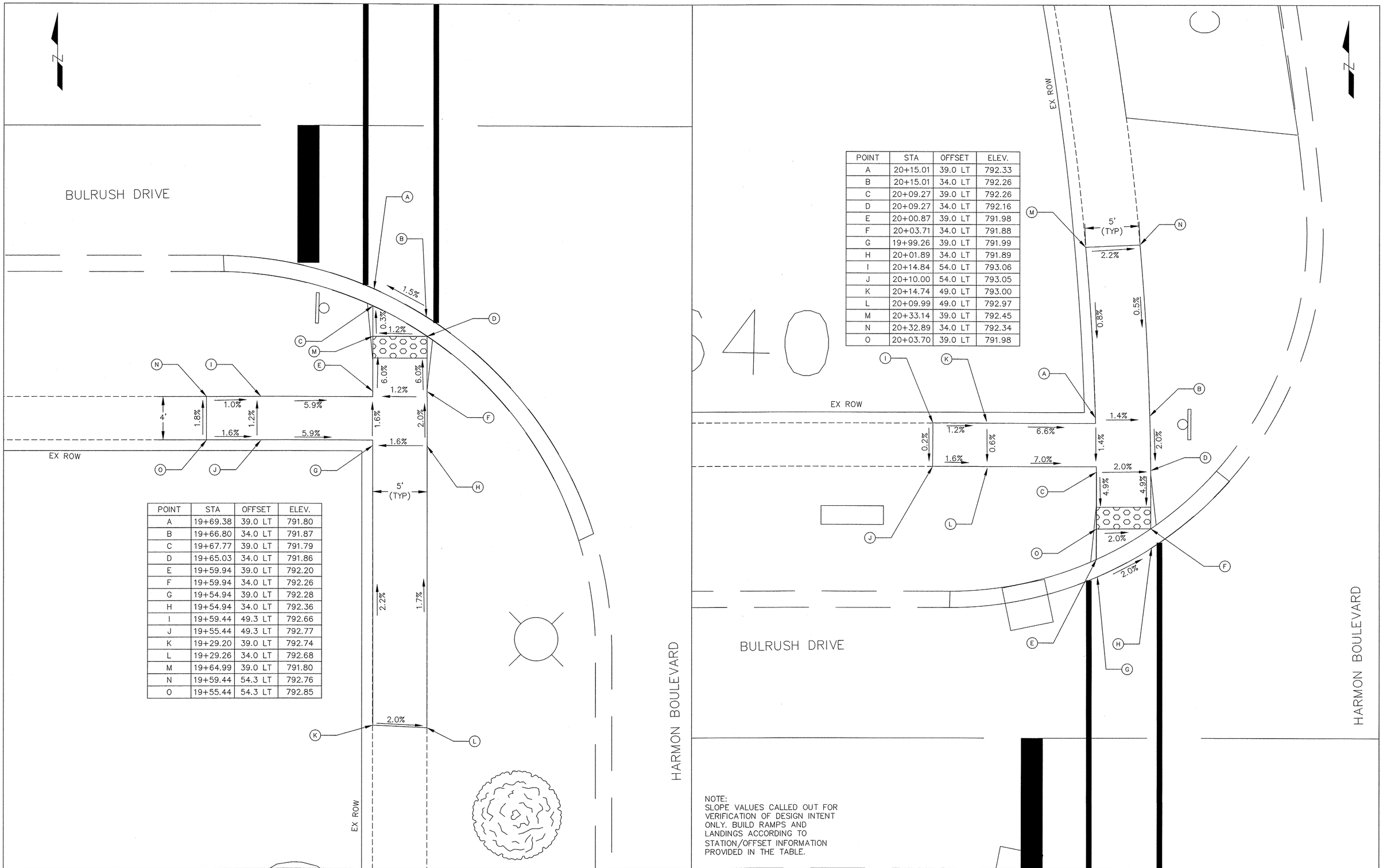
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - HARMON BOULEVARD

SCALE: 1" = 5' | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	46
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	19+69.38	39.0 LT	791.80
B	19+66.80	34.0 LT	791.87
C	19+67.77	39.0 LT	791.79
D	19+65.03	34.0 LT	791.86
E	19+59.94	39.0 LT	792.20
F	19+59.94	34.0 LT	792.26
G	19+54.94	39.0 LT	792.28
H	19+54.94	34.0 LT	792.36
I	19+59.44	49.3 LT	792.66
J	19+55.44	49.3 LT	792.77
K	19+29.20	39.0 LT	792.74
L	19+29.26	34.0 LT	792.68
M	19+64.99	39.0 LT	791.80
N	19+59.44	54.3 LT	792.76
O	19+55.44	54.3 LT	792.85

POINT	STA	OFFSET	ELEV.
A	20+15.01	39.0 LT	792.33
B	20+15.01	34.0 LT	792.26
C	20+09.27	39.0 LT	792.26
D	20+09.27	34.0 LT	792.16
E	20+00.87	39.0 LT	791.98
F	20+03.71	34.0 LT	791.88
G	19+99.26	39.0 LT	791.99
H	20+01.89	34.0 LT	791.89
I	20+14.84	54.0 LT	793.06
J	20+10.00	54.0 LT	793.05
K	20+14.74	49.0 LT	793.00
L	20+09.99	49.0 LT	792.97
M	20+33.14	39.0 LT	792.45
N	20+32.89	34.0 LT	792.34
O	20+03.70	39.0 LT	791.98

NOTE:
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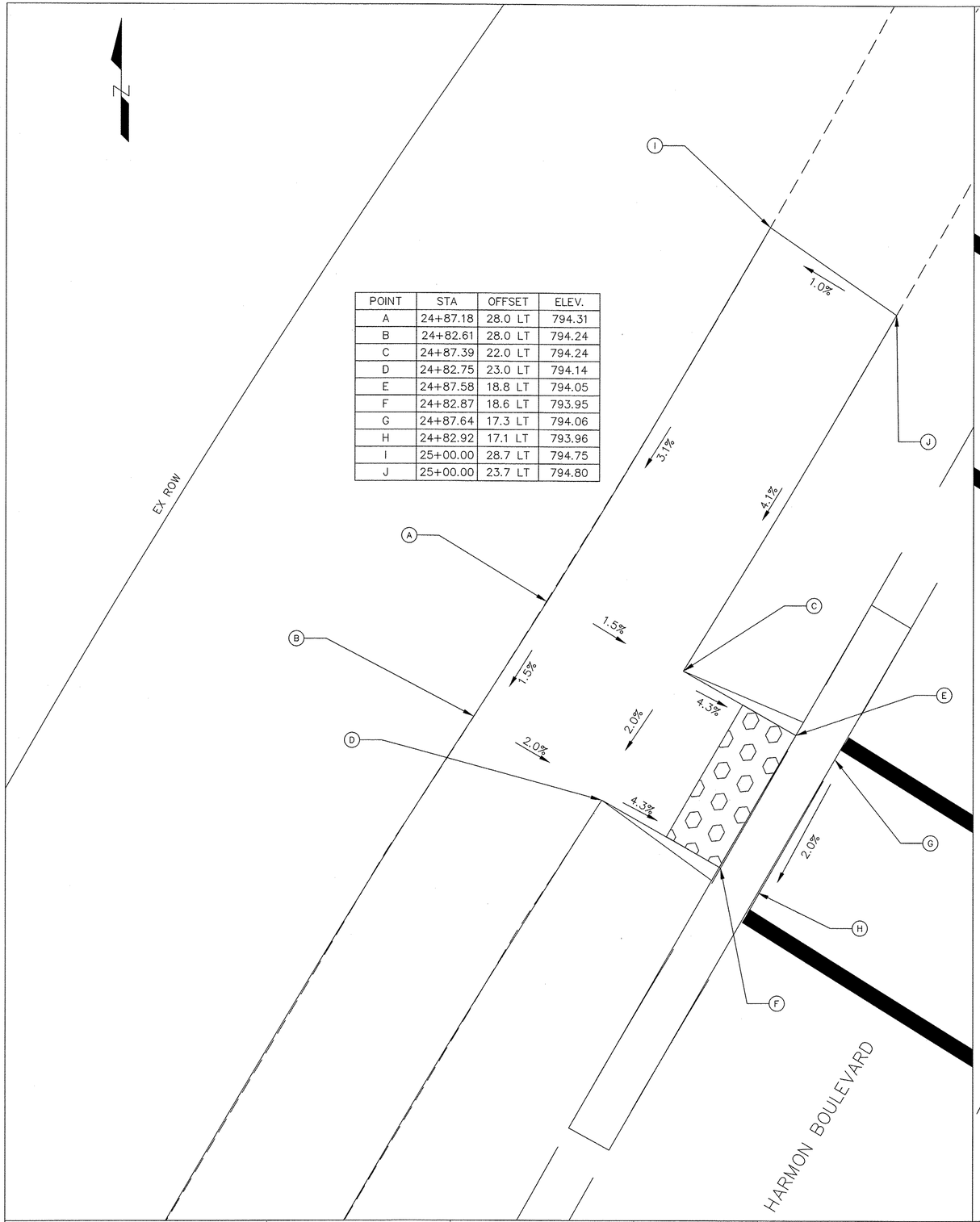
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

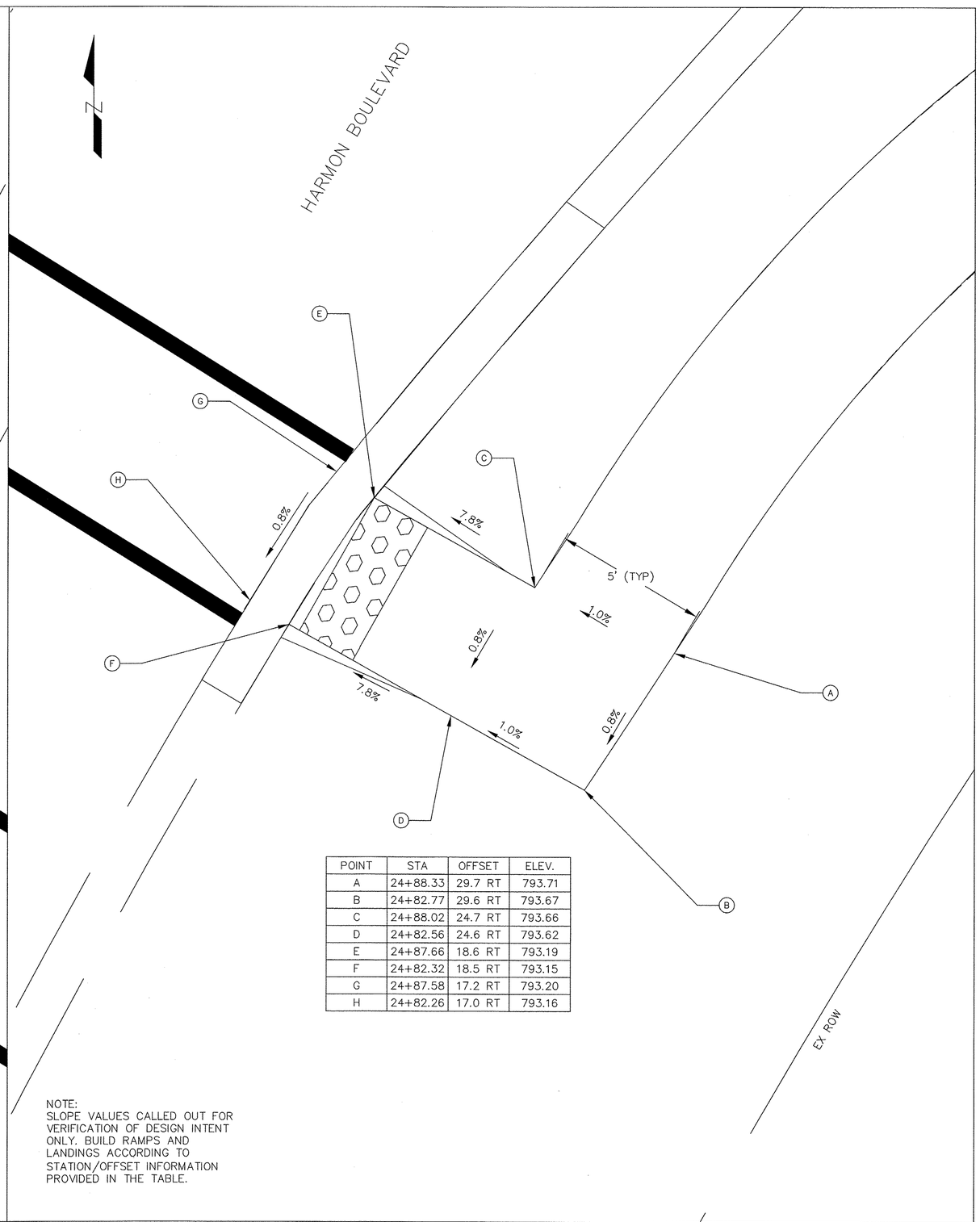
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - HARMON BOULEVARD

SCALE: 1" = 4' | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	47
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



POINT	STA	OFFSET	ELEV.
A	24+87.18	28.0 LT	794.31
B	24+82.61	28.0 LT	794.24
C	24+87.39	22.0 LT	794.24
D	24+82.75	23.0 LT	794.14
E	24+87.58	18.8 LT	794.05
F	24+82.87	18.6 LT	793.95
G	24+87.64	17.3 LT	794.06
H	24+82.92	17.1 LT	793.96
I	25+00.00	28.7 LT	794.75
J	25+00.00	23.7 LT	794.80



POINT	STA	OFFSET	ELEV.
A	24+88.33	29.7 RT	793.71
B	24+82.77	29.6 RT	793.67
C	24+88.02	24.7 RT	793.66
D	24+82.56	24.6 RT	793.62
E	24+87.66	18.6 RT	793.19
F	24+82.32	18.5 RT	793.15
G	24+87.58	17.2 RT	793.20
H	24+82.26	17.0 RT	793.16

NOTE:
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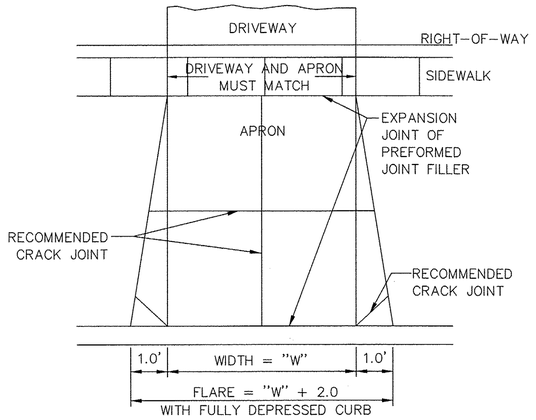
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
ADA RAMP DETAILS - HARMON BOULEVARD

SCALE: 1" = 2' | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	48
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



NOTE: MINIMUIM WIDTH, "W" = 10', MINIMUIM FLARE = 12'
MAXIMUIM WIDTH, "W" = 28',MAXIMUIM FLARE = 30'

NOTES:

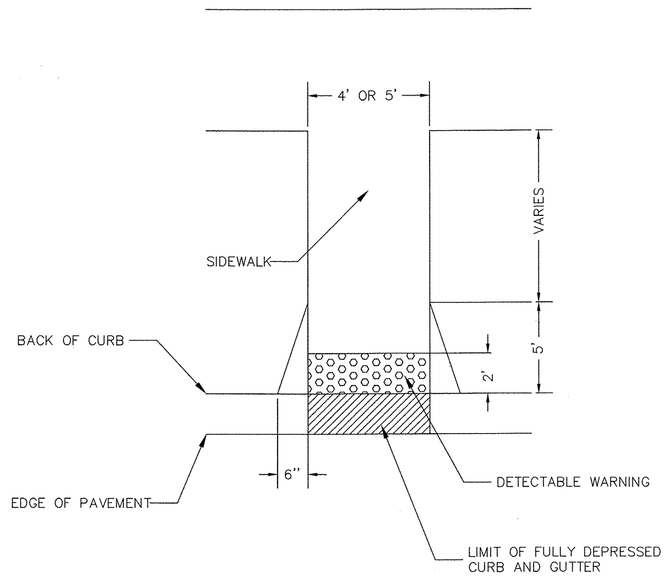
CONCRETE

1. THE APRON SHALL CONSIST OF 6" CONCRETE OVER 4" CA–6 CRUSHED STONE OR GRAVEL.
2. CONCRETE TO BE IDOT APPROVED MIX, MIN. 3500 PSI COMPRESSIVE STRENGTH WITH SYNTHETIC FIBERS.
3. CONCRETE MUST BE CURED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS

ASPHALT

1. THE RESIDENTIAL APRON SHALL CONSIST OF 3" ASHPALT OVER 8" CA–6 CRUSHED STONE OR GRAVEL.
2. THE COMMERCIAL APRON SHALL CONSIST OF 5" ASPHALT OVER 10" CA–6 CRUSHED STONE OR GRAVEL.

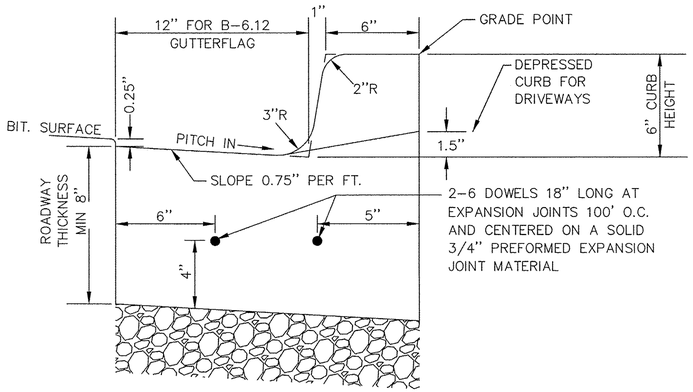
APRON DETAIL



NOTES:

1. DETECTABLE WARNING PLACEMENT AND SIDEWALK/RAMP SLOPE SHALL FOLLOW IDOT STANDARDS 424001 AND 424006
2. DETECTABLE WARNING TO MATCH FULL WIDTH OF APPROACH SIDEWALK, MINIMUM 4 FEET.

SIDEWALK RAMP REMOVAL



CURB & GUTTER, TYPE B–6.12 (SPECIAL)

NOTES:

1. THE CURB SHALL BE DEPRESSED AT ALL APRONS ACROSS ALL SIDEWALK RAMPING IN ACCORDANCE WITH PROJECT DETAILS AND ADA GUIDELINES.
2. CONTRACTION JOINTS TO BE TOOLED OR SAWCUT EVERY 15' TO A DEPTH OF 1.5".
3. EXPANSION JOINTS SHALL BE PROVIDED AT THE BEGINNING AND END OF ALL RETURN RADII, 5 FEET EITHER SIDE OF A DRAINAGE STRUCTURE, AT THE END OF A DAYS POUR, AND/OR AT SPACING NOT TO EXCEED 100 FEET

CURB AND GUTTER DETAIL

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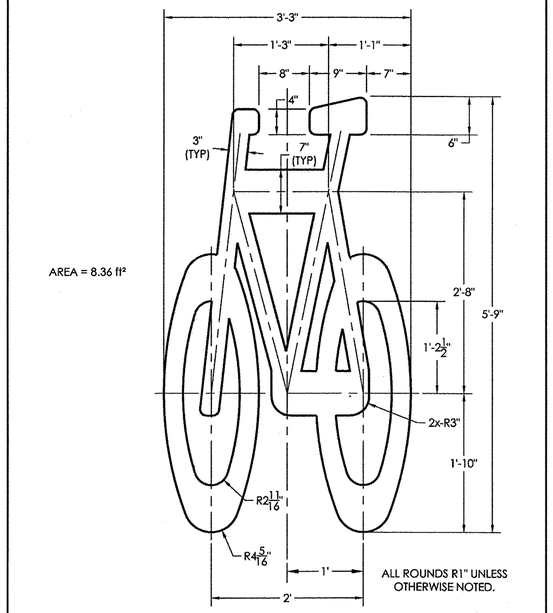
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

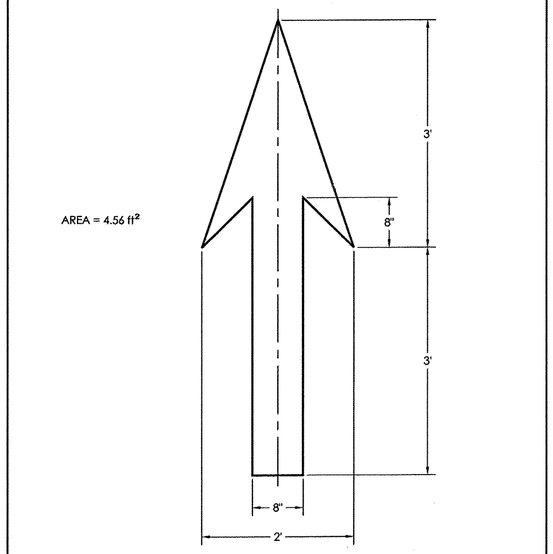
BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
VILLAGE OF HOFFMAN ESTATES DETAILS

SCALE: NTS | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

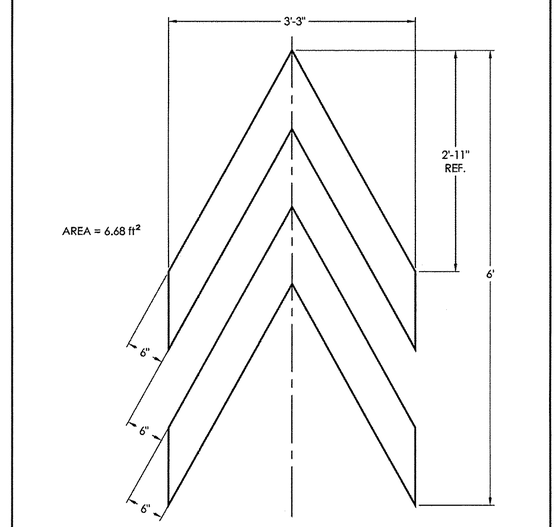
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15–00095–00–RS	COOK	65	49
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		



CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	6' BIKE SYMBOL
			DATE: 06/25/12 · SHEET: A-7-2 · DRAWN BY: CDOT



CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	BIKE ARROW
			DATE: 06/25/12 · SHEET: A-7-4 · DRAWN BY: CDOT



CDOT CHICAGO DEPARTMENT OF TRANSPORTATION	DATE	REVISION	CITY OF CHICAGO
	1/1/2014	REVISION 1	BIKE CHEVRON
			DATE: 06/25/12 · SHEET: A-7-6 · DRAWN BY: CDOT

ENGINEERING CONSULTANT
Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4008 Fax 773.775.4014
Email chicago@ciorba.com

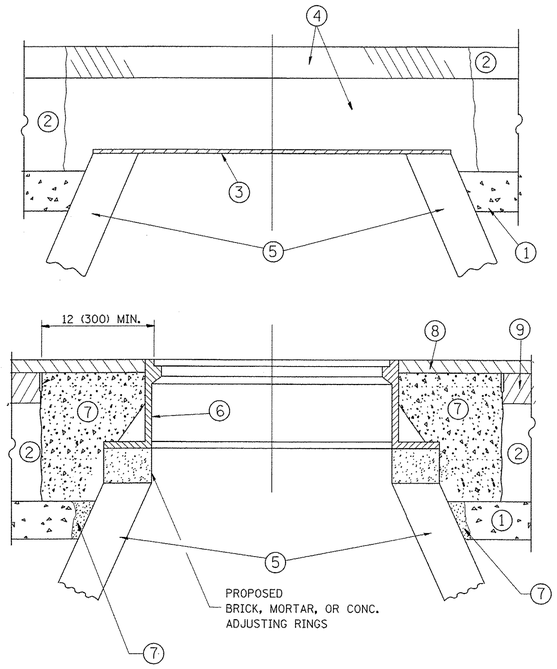
USERNAME = dwierzbicki	DESIGNED – JPA	REVISED –
	DRAWN – DW	REVISED –
PLOT SCALE =	CHECKED – DJO	REVISED –
PLOT DATE =	DATE – 01/30/2017	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BODE ROAD & HARMON BLVD PAVEMENT RESURFACING
VILLAGE OF HOFFMAN ESTATES DETAILS

SCALE: NTS | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	50
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* 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
(2) EXISTING PAVEMENT
(3) 36 (900) DIAMETER METAL PLATE
(4) PROPOSED CRUSHED STONE AND HMA SURFACE MIX
(5) EXISTING STRUCTURE
(6) FRAME AND LID (SEE NOTES)
(7) CLASS PP-1* CONCRETE
(8) PROPOSED HMA SURFACE COURSE
(9) PROPOSED HMA BINDER COURSE

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.

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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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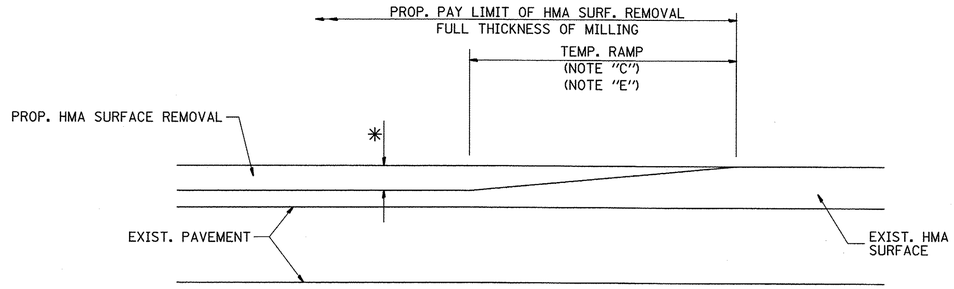
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 1968.5000 ' / m	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

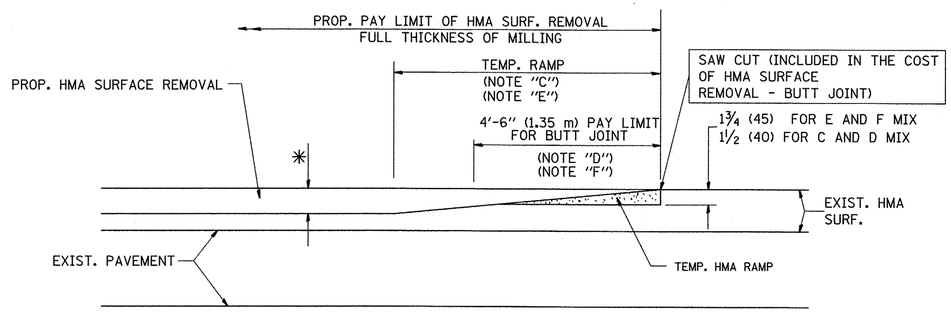
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	51
	*1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

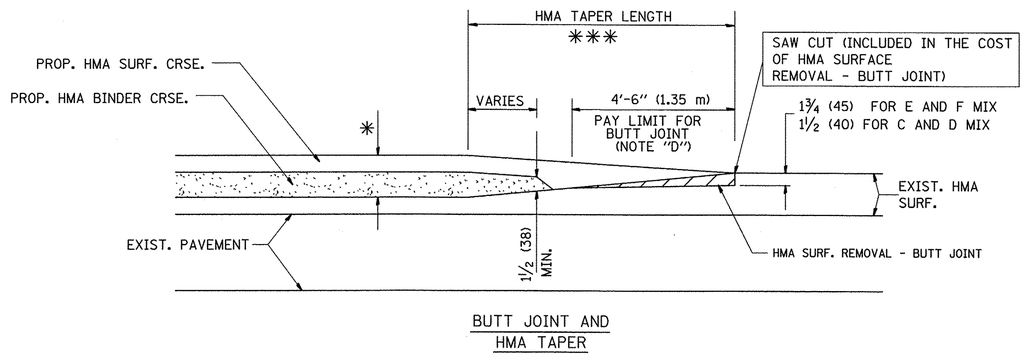


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

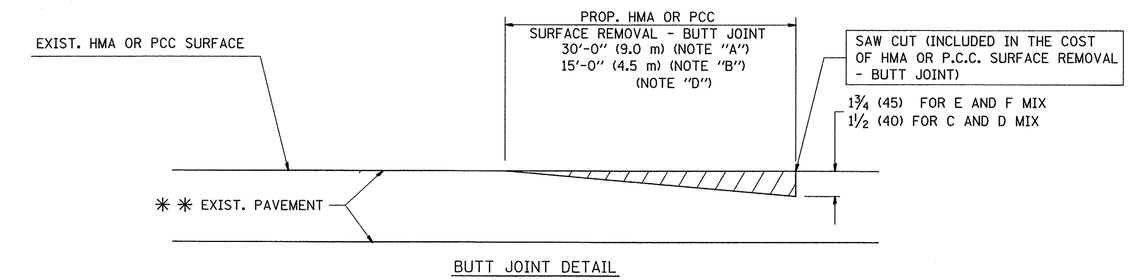
OPTION 2

TYPICAL TEMPORARY RAMP

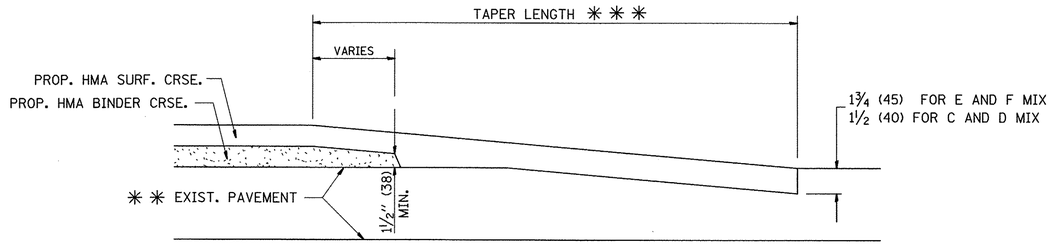


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

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'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 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:

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".

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

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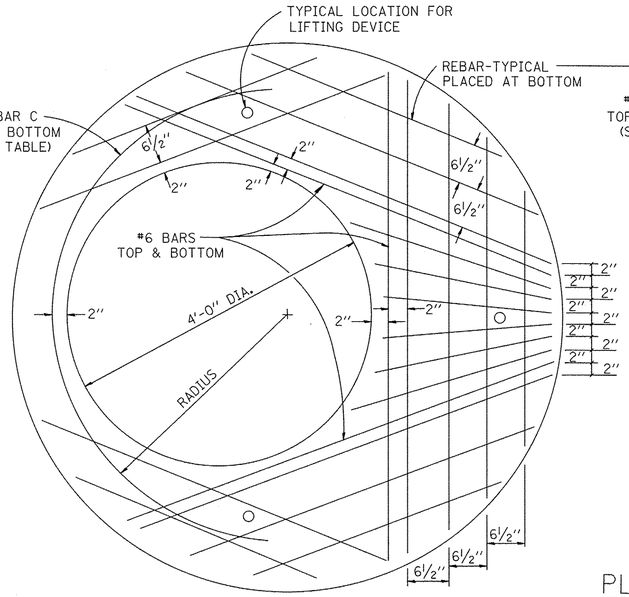
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

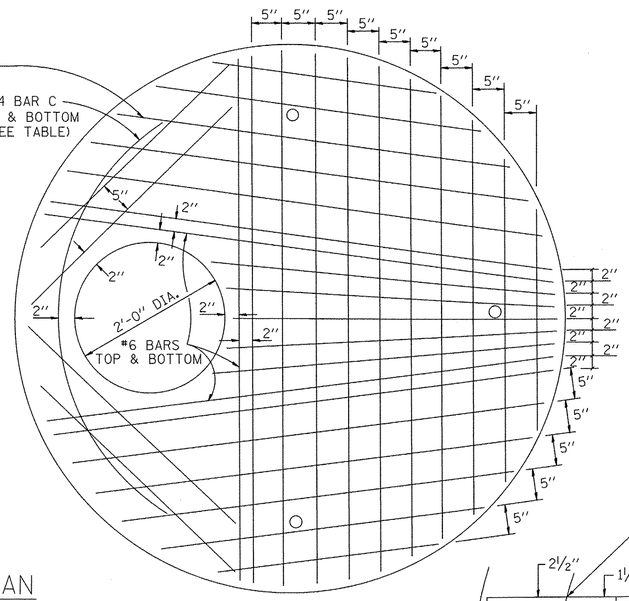
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

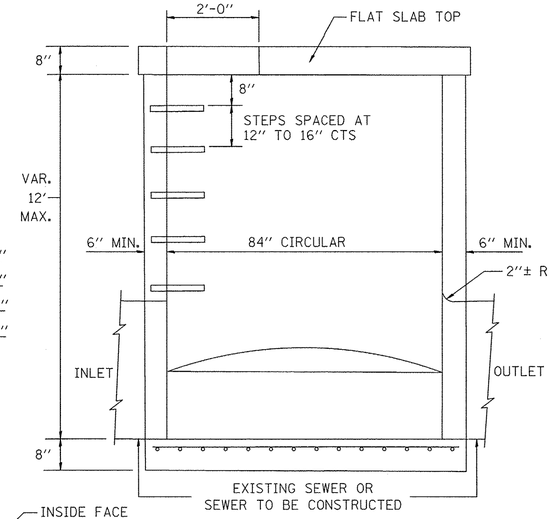
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	52
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		





PLAN

SHOWING REBAR REINFORCEMENT



ELEVATION

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

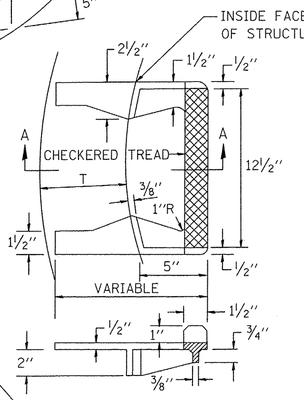
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

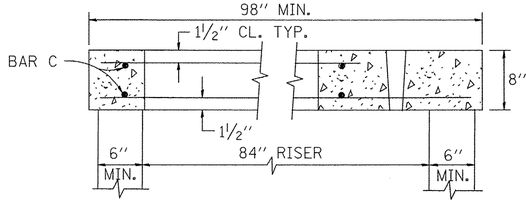
JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.

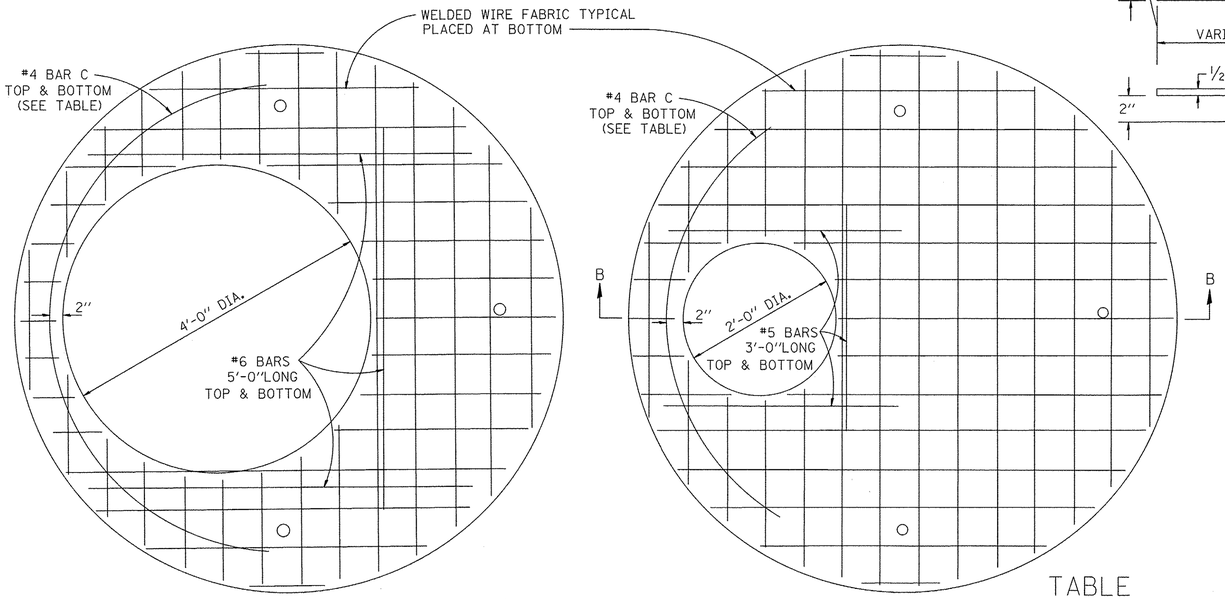


SEC. A-A

CAST IRON STEPS



SECTION B-B



PLAN

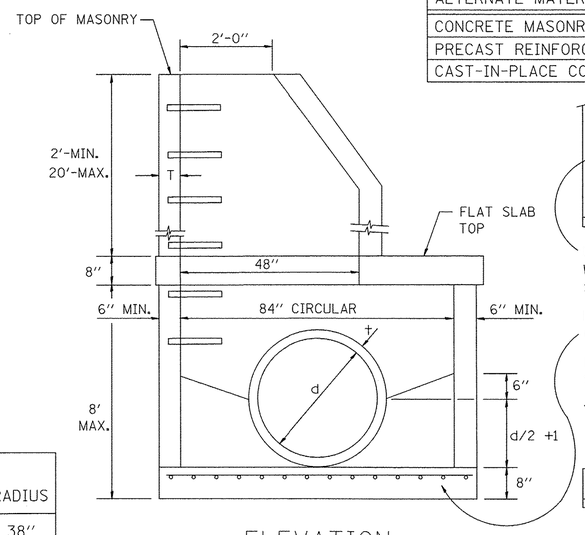
SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

TABLE

DIAMETER OF OPENING	REINFORCEMENT "As" WWF OR EACH DIRECTION	BAR SIZE	BAR C SIZE	BAR C LENGTH	BAR C RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"



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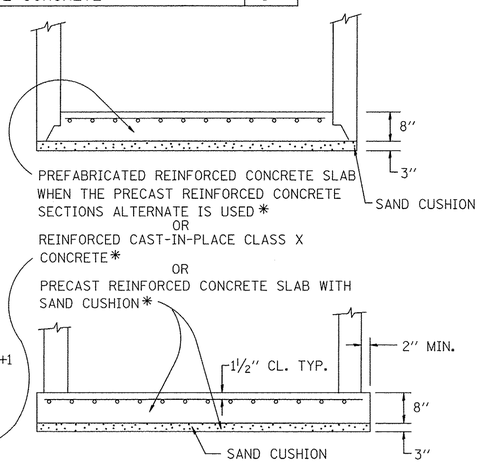

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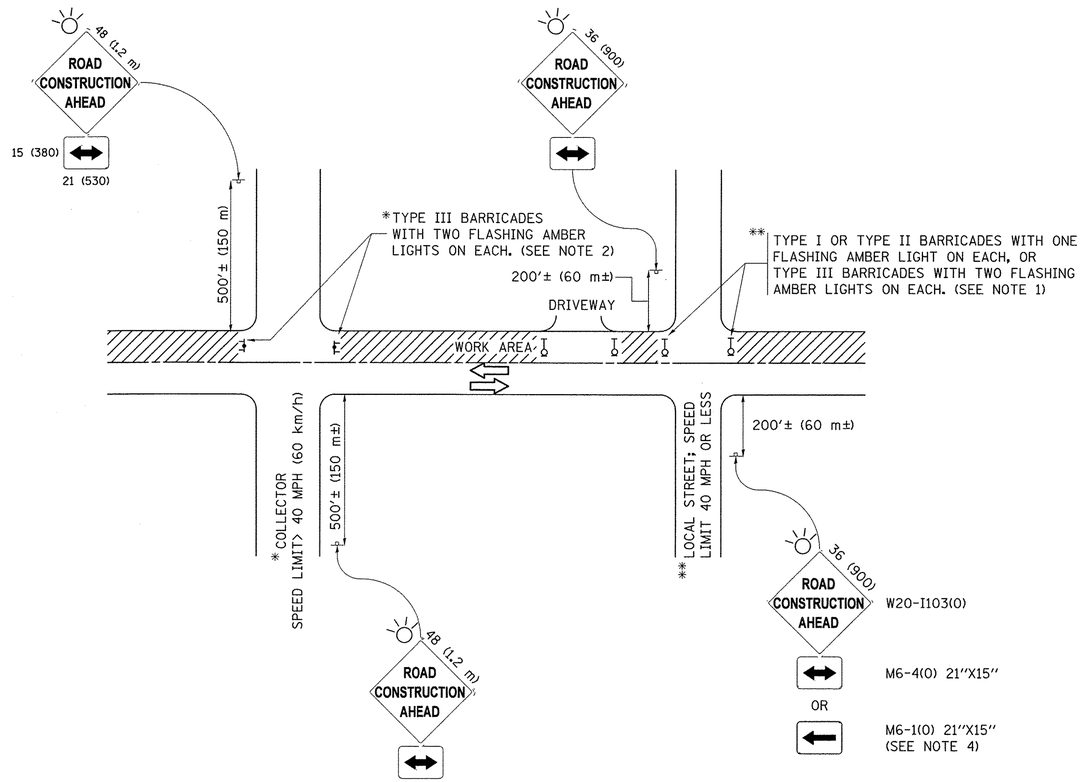
	PLOT DATE = 1/4/2008	DATE - 10-18-02	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE TYPE A
7 FOOT DIAMETER

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	53
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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		DRAWN -	REVISED - T. RAMMACHER 01-06-00
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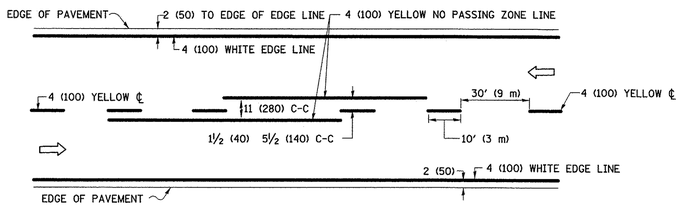
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	54
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



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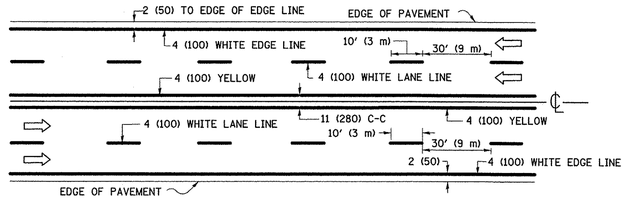
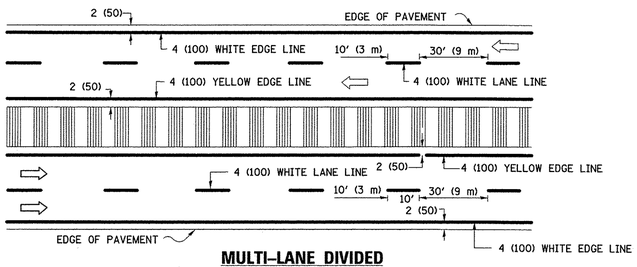
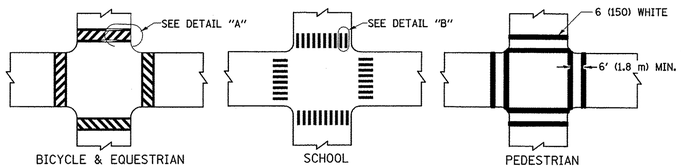


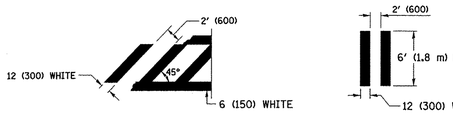
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

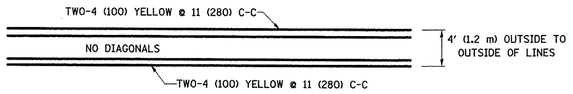




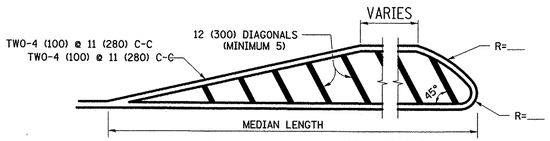
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



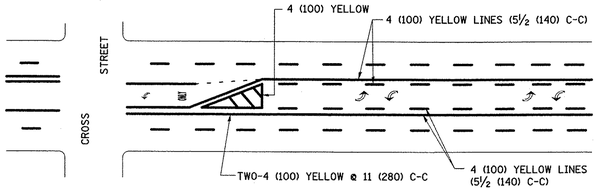
4' (1.2 m) WIDE MEDIANS ONLY



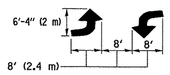
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

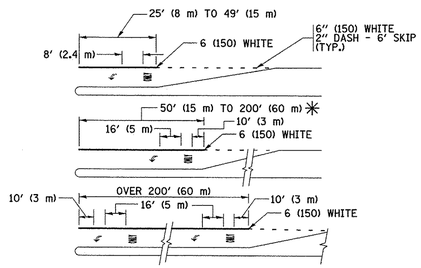


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

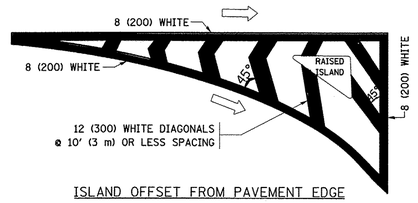


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

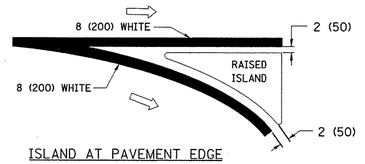
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

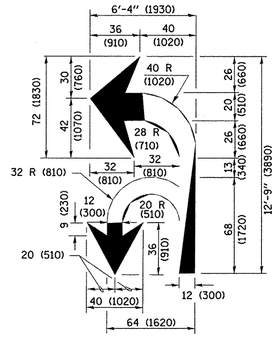


ISLAND OFFSET FROM PAVEMENT EDGE

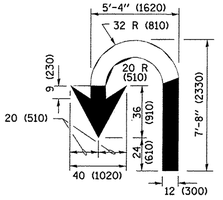


ISLAND AT PAVEMENT EDGE

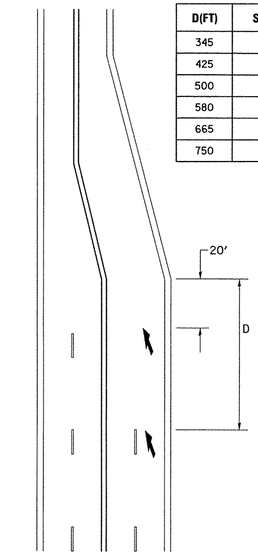
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

LANE REDUCTION TRANSITION

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⌀ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	 4 (100) 2 ⌀ 4 (100)	 SOLID SOLID	 YELLOW YELLOW	 5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⌀ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⌀ 6 (150) 12 (300) ⌀ 45° 12 (300) ⌀ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⌀ 4 (100) WITH 12 (300) DIAGONALS ⌀ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⌀ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) ⌀ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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Default	PLOT DATE = 4/13/2016	DRAWN - DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
			REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
✳	15–00095–00–RS	COOK	65	55
	✳1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M–4003(798)		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

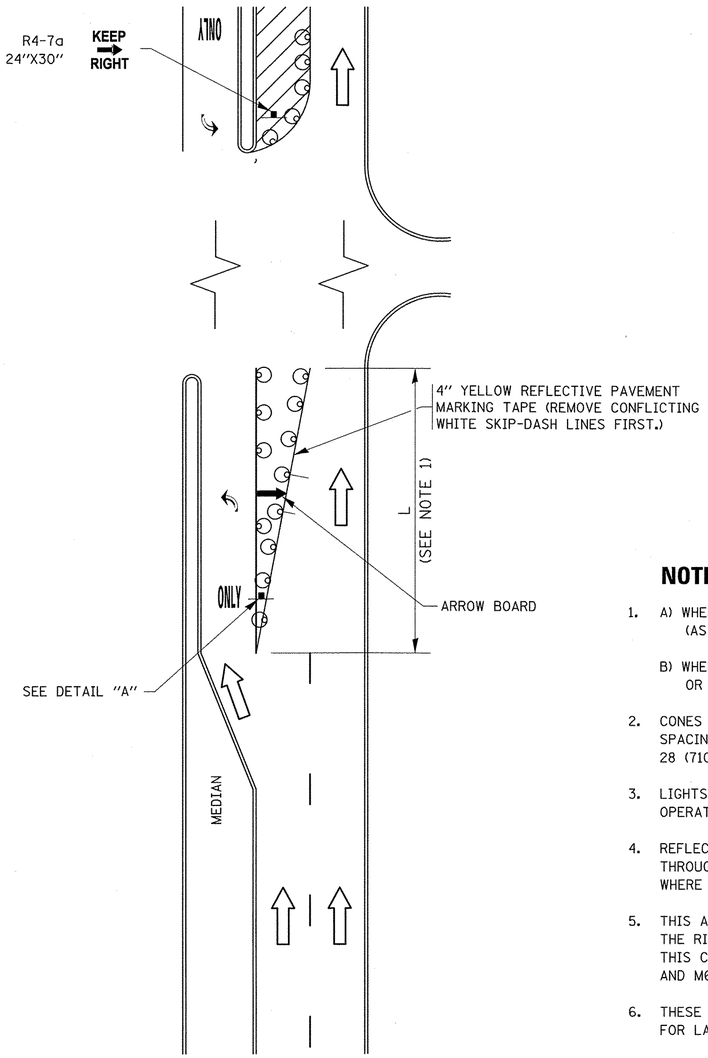


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

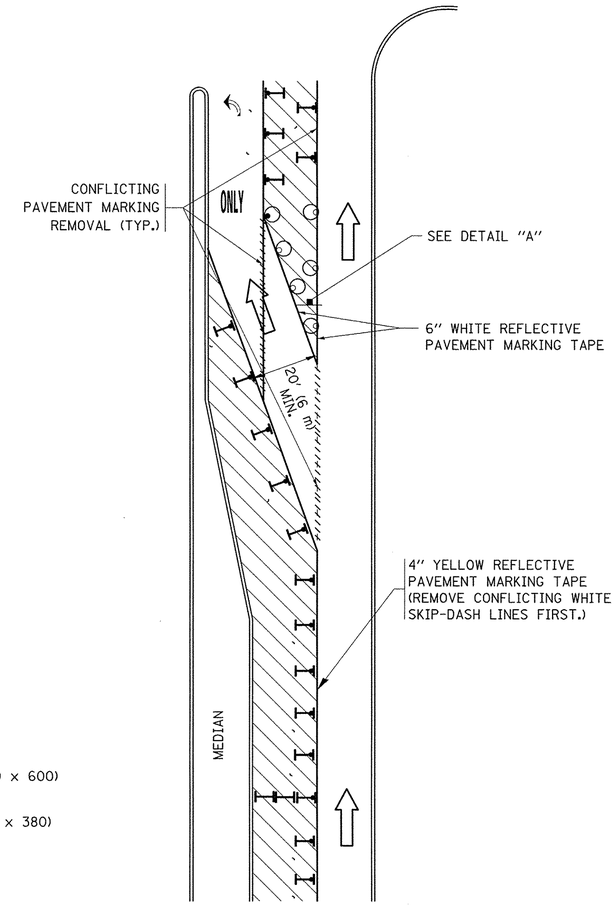
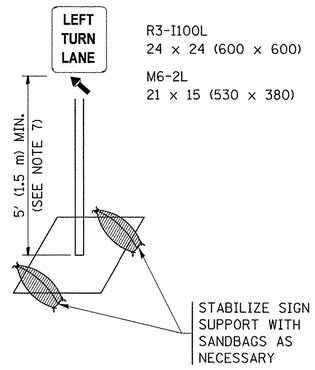


FIGURE 2

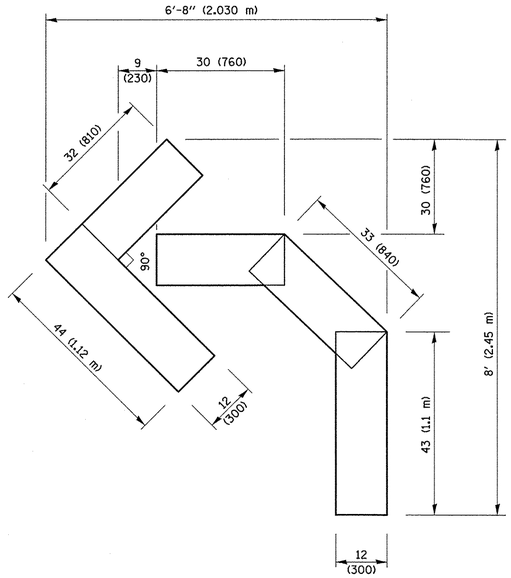


DETAIL A

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

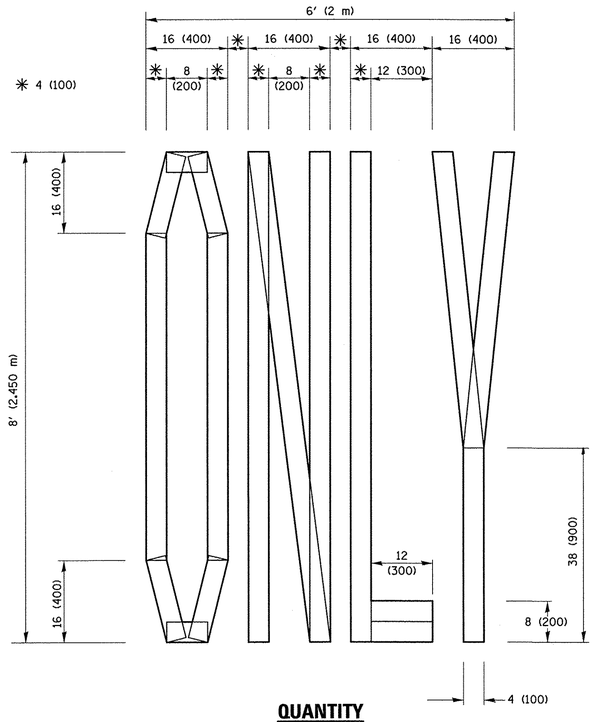
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist Standard Details\Cash House\Default	USER NAME = footemj	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
	PLOT SCALE = 50.0000 ' / in.	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13					
	PLOT DATE = 9/15/2016	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16					
		REVISED -T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	56
	*1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



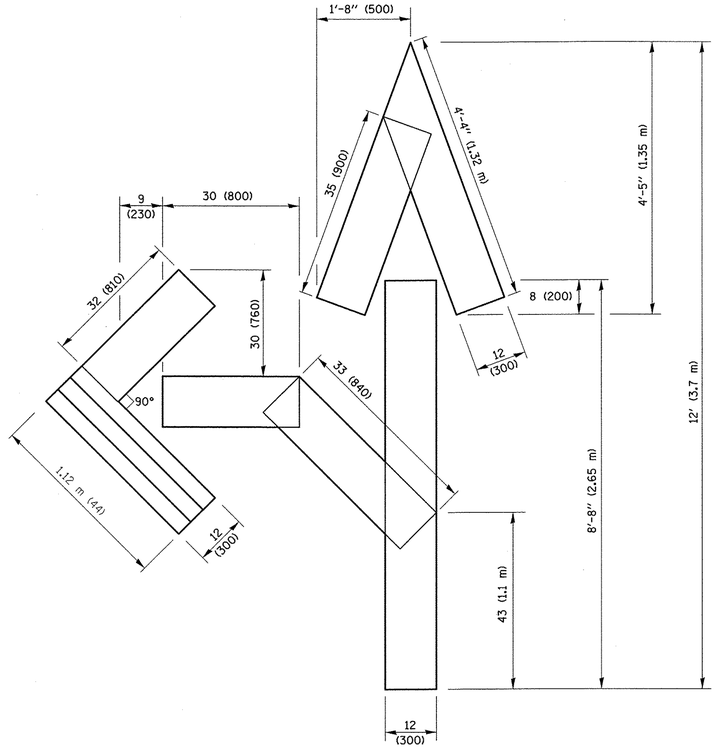
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

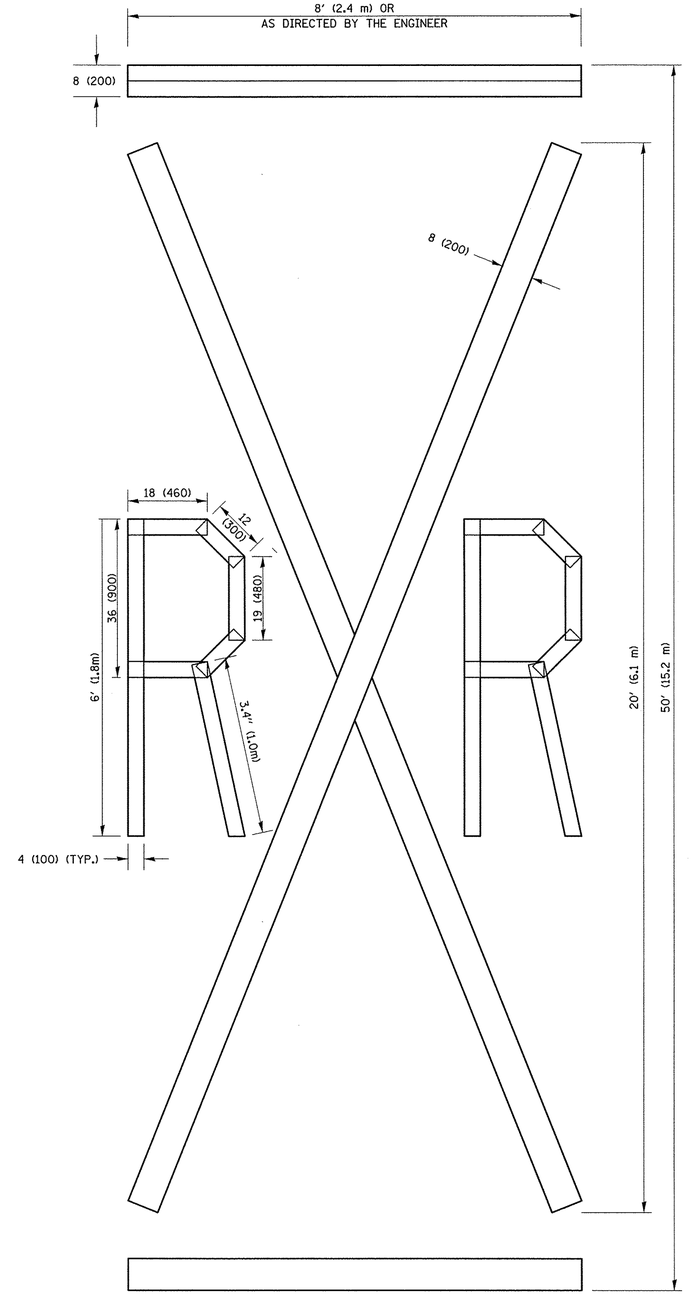


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

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	PLOT DATE = 9/15/2016	CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	57
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		R	R
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G Y G	R Y G Y G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD "RB" INDICATES REFLECTIVE BACKPLATE		R Y G Y G "P"	R Y G Y G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		I	I

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		36F	36F
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
QUEUE DETECTOR		Q	Q
PREFORMED QUEUE DETECTOR		PQ	PQ
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	58
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

LOOP DETECTOR NOTES

1. 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.

2. 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.

3. 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.

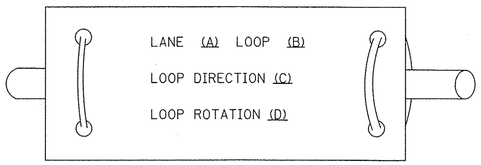
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. 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.

6. 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.

7. 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.

LOOP LEAD-IN CABLE TAG

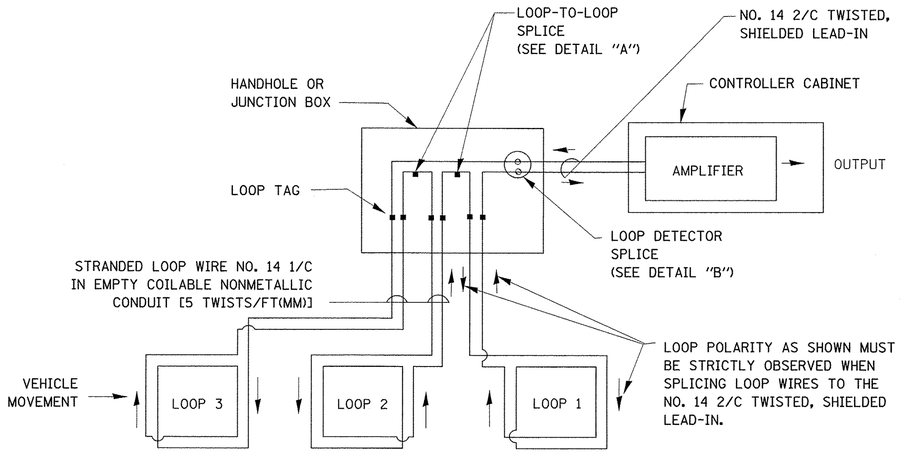


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

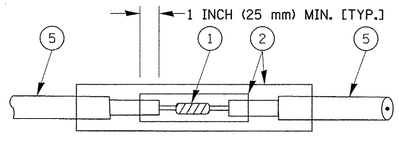
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

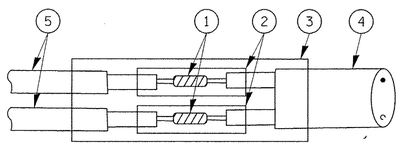


DETECTOR LOOP WIRING SCHEMATIC

- 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.

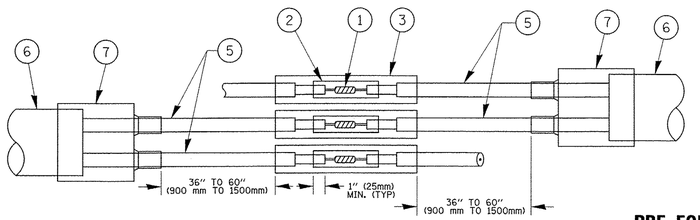


DETAIL "A"
LOOP-TO-LOOP SPLICE



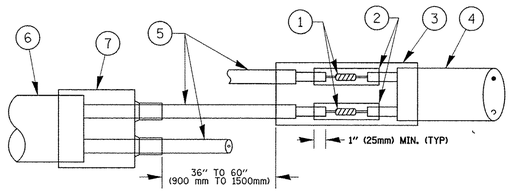
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

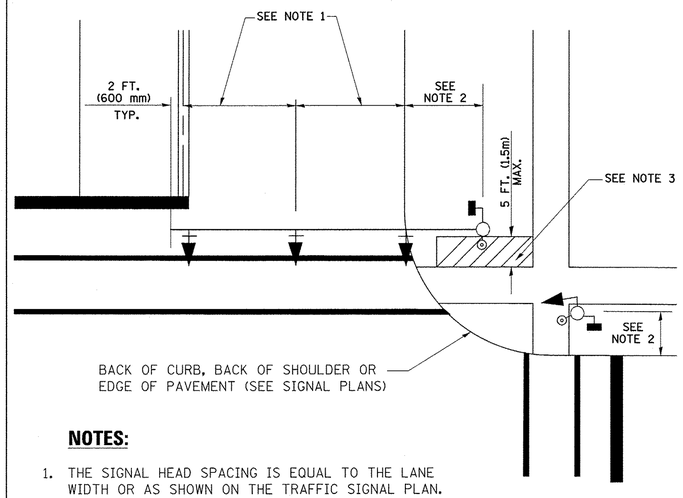
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	59
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

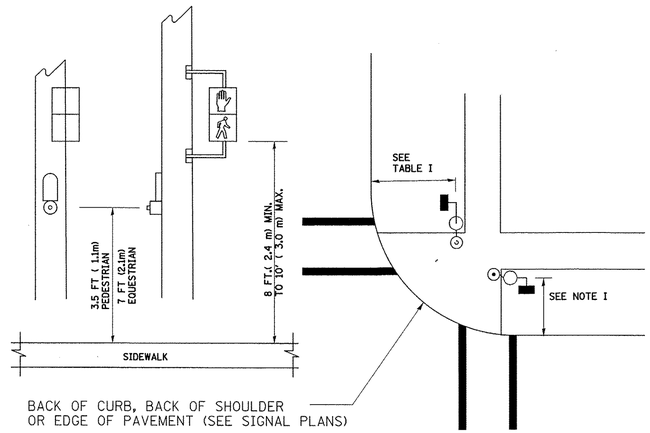
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

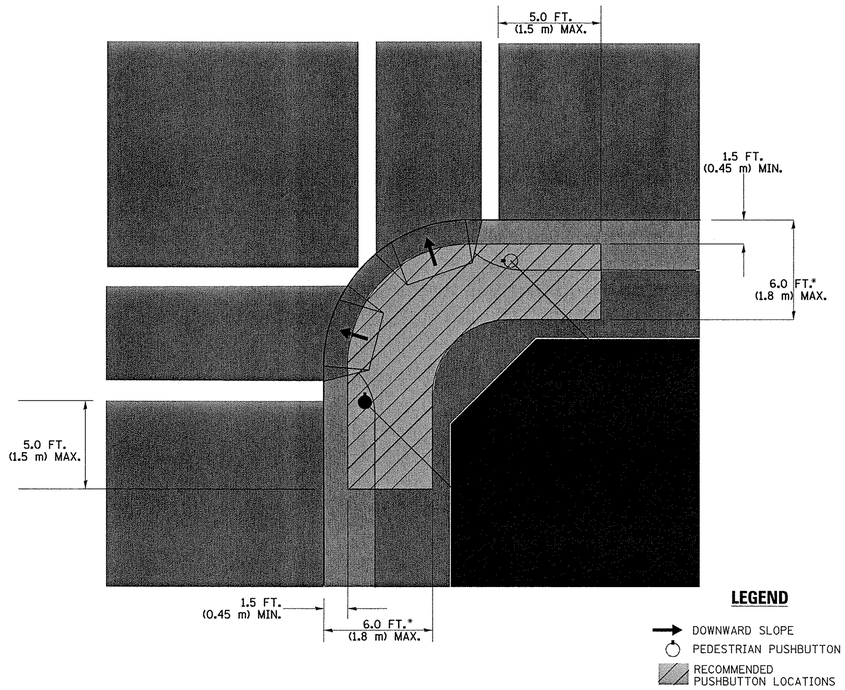
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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 TOTHE 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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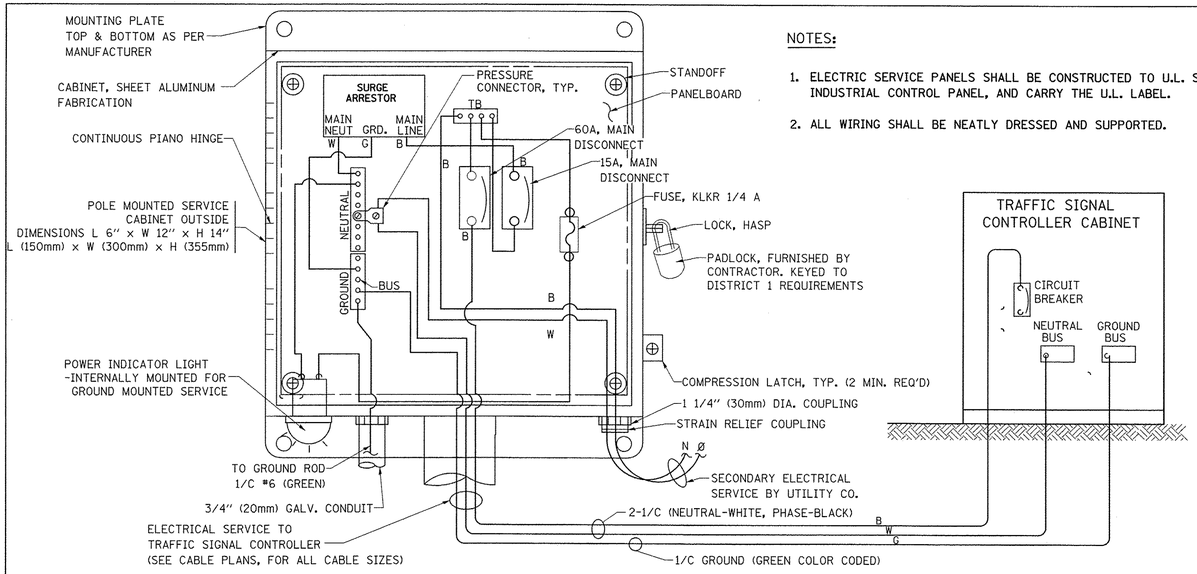
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

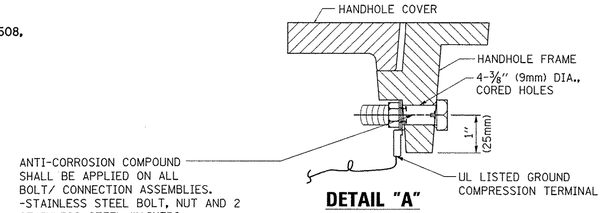
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	60
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



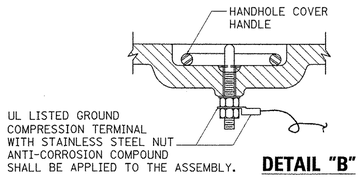
NOTES:

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.

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



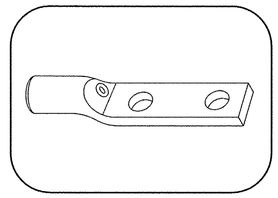
DETAIL "A"



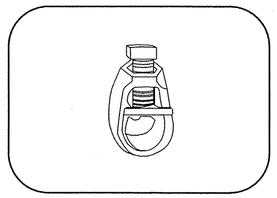
DETAIL "B"

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" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
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.

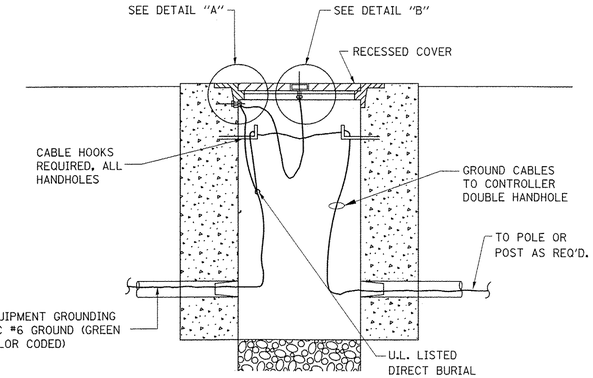


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

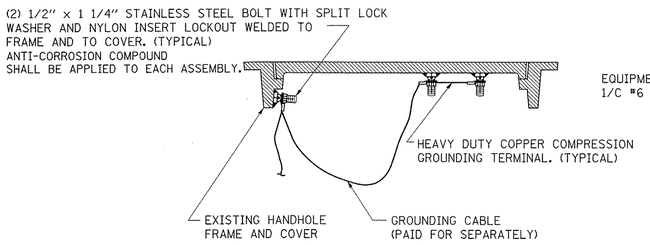


3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

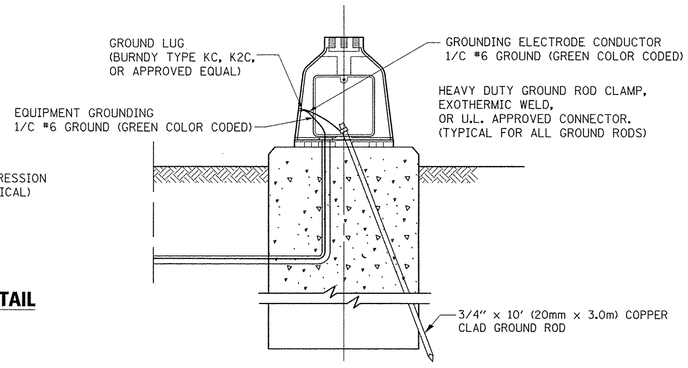
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



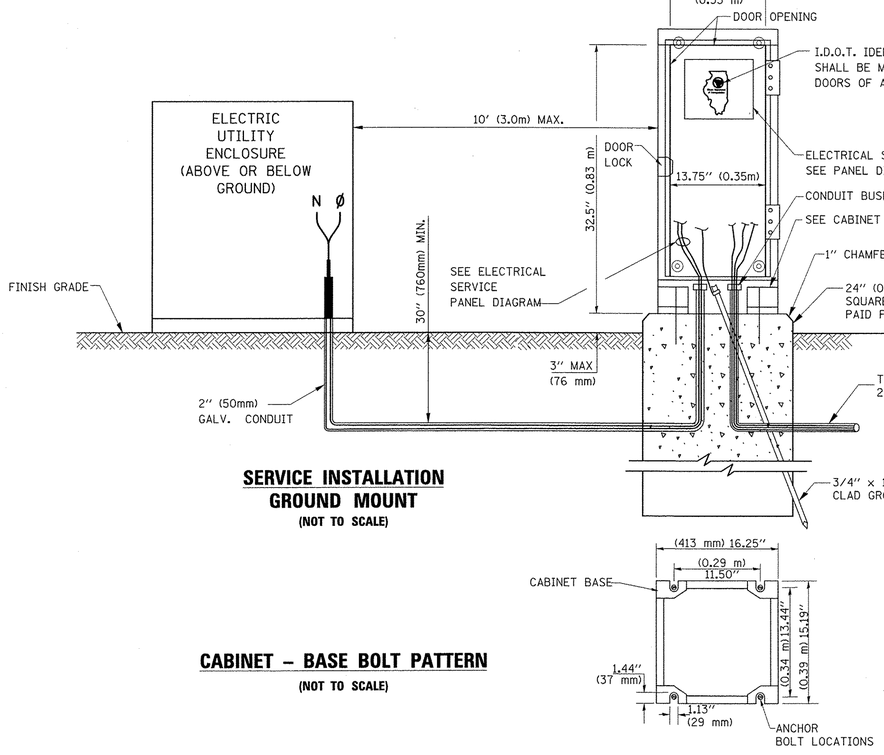
HANDHOLE COVER & FRAME – GROUNDING DETAIL
(NOT TO SCALE)



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



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



SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN
(NOT TO SCALE)

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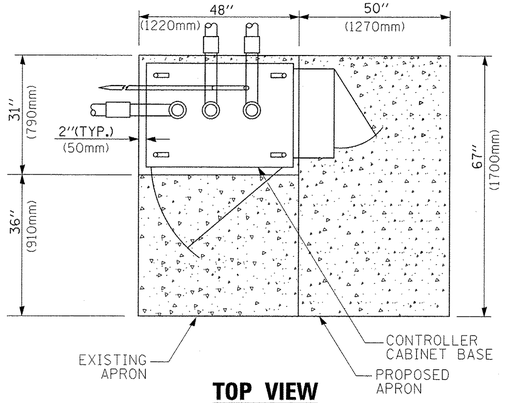
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

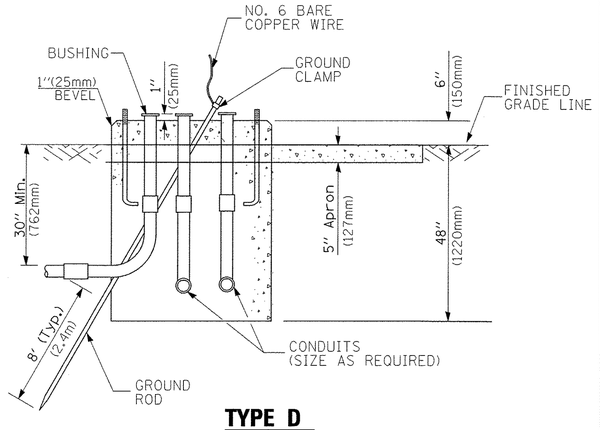
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.

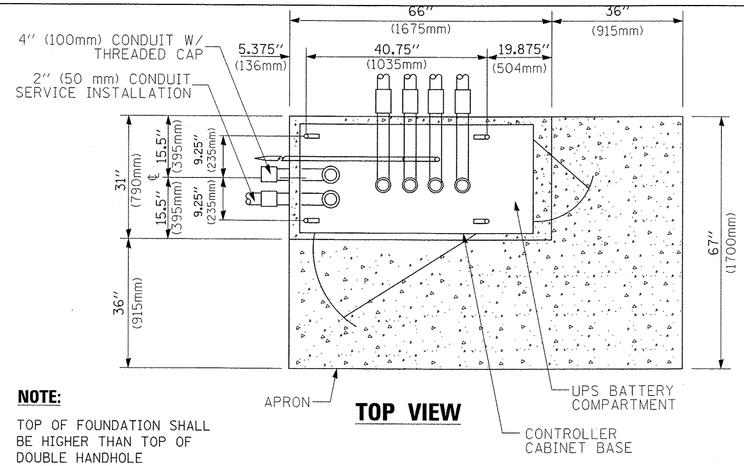
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	61
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



TOP VIEW



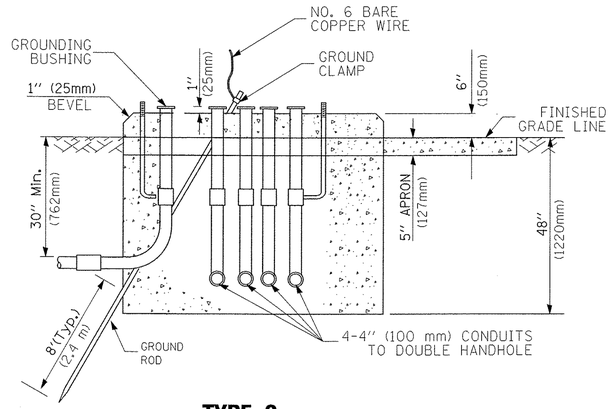
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



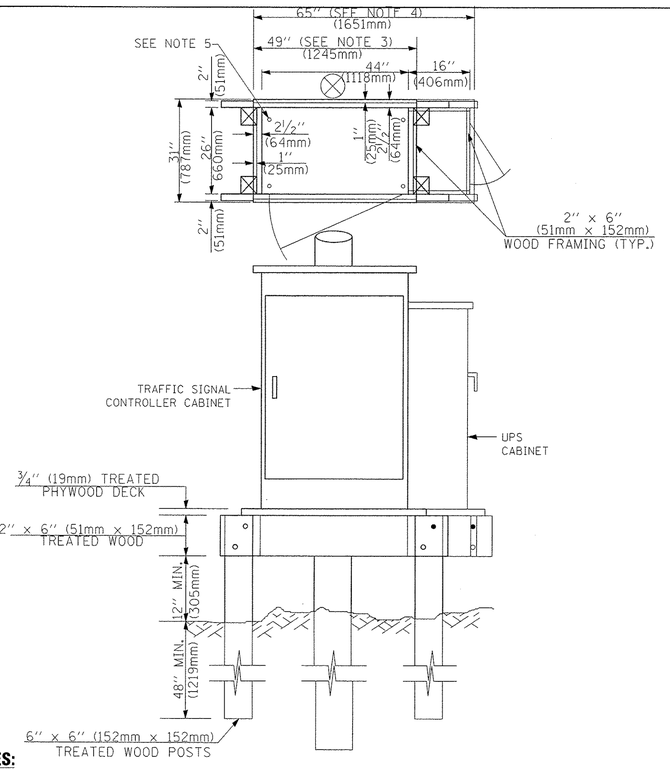
TOP VIEW

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



NOTES:

1. 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
2. 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.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. 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.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

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	① 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)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. 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 (Qu) > 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.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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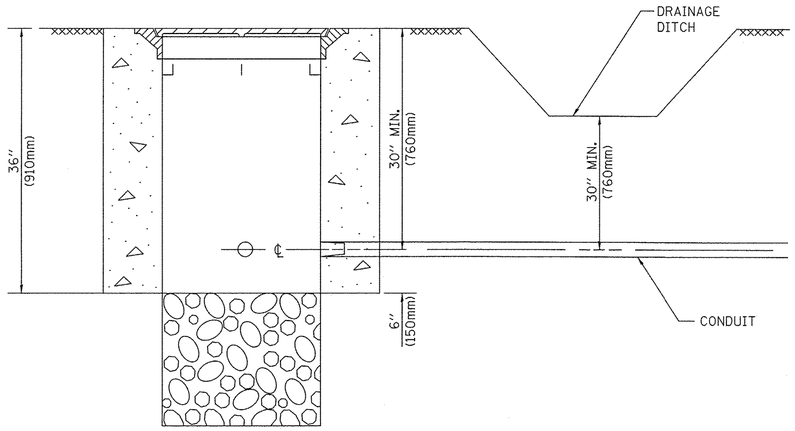
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	62
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

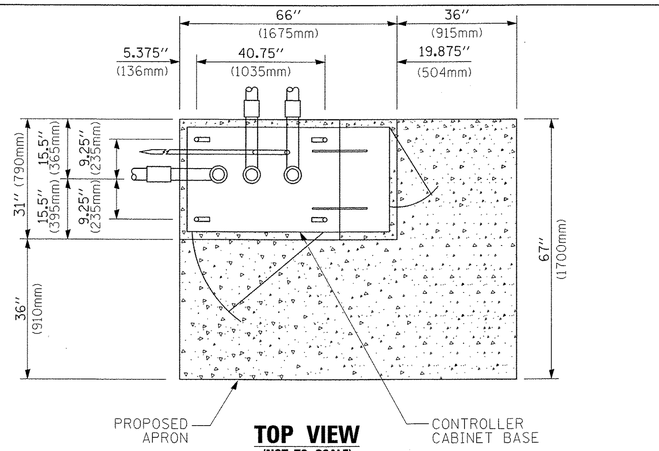


NOTES:

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.

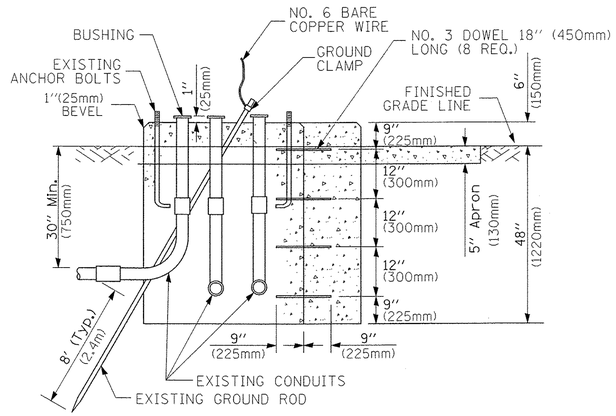
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



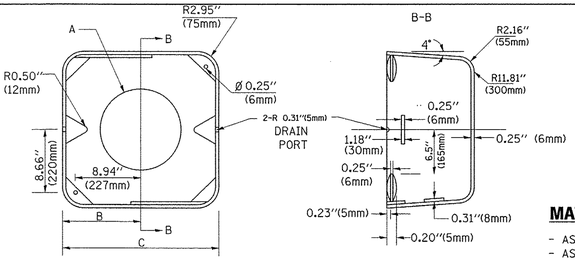
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

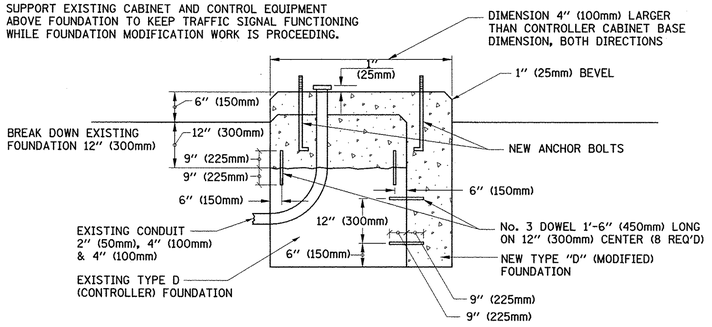
SHROUD

NOTES:

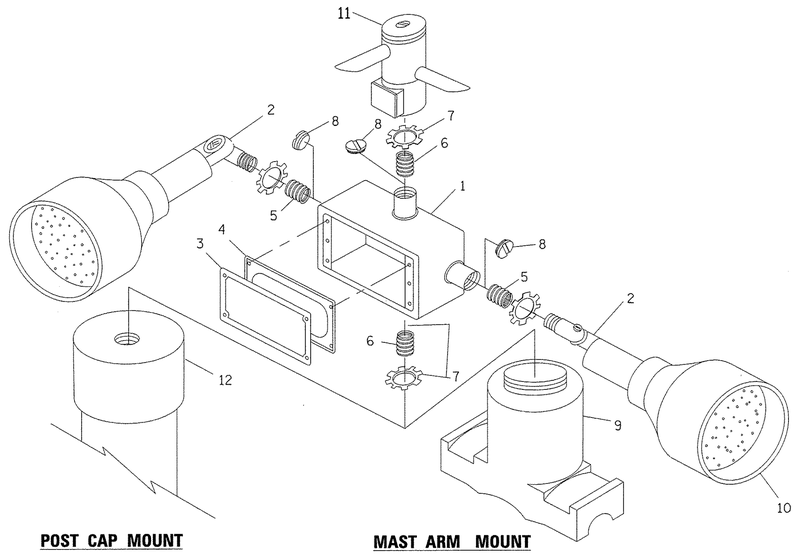
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



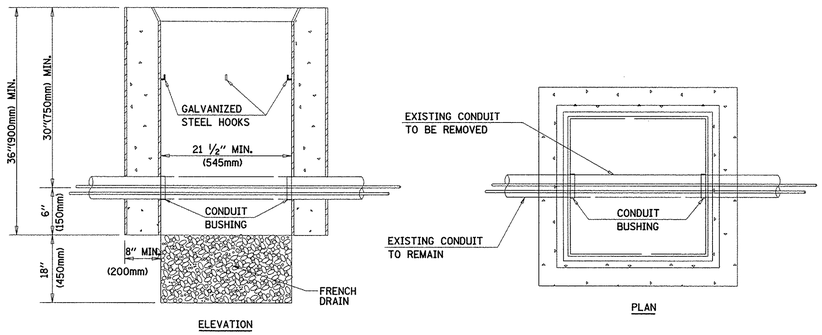
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(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.



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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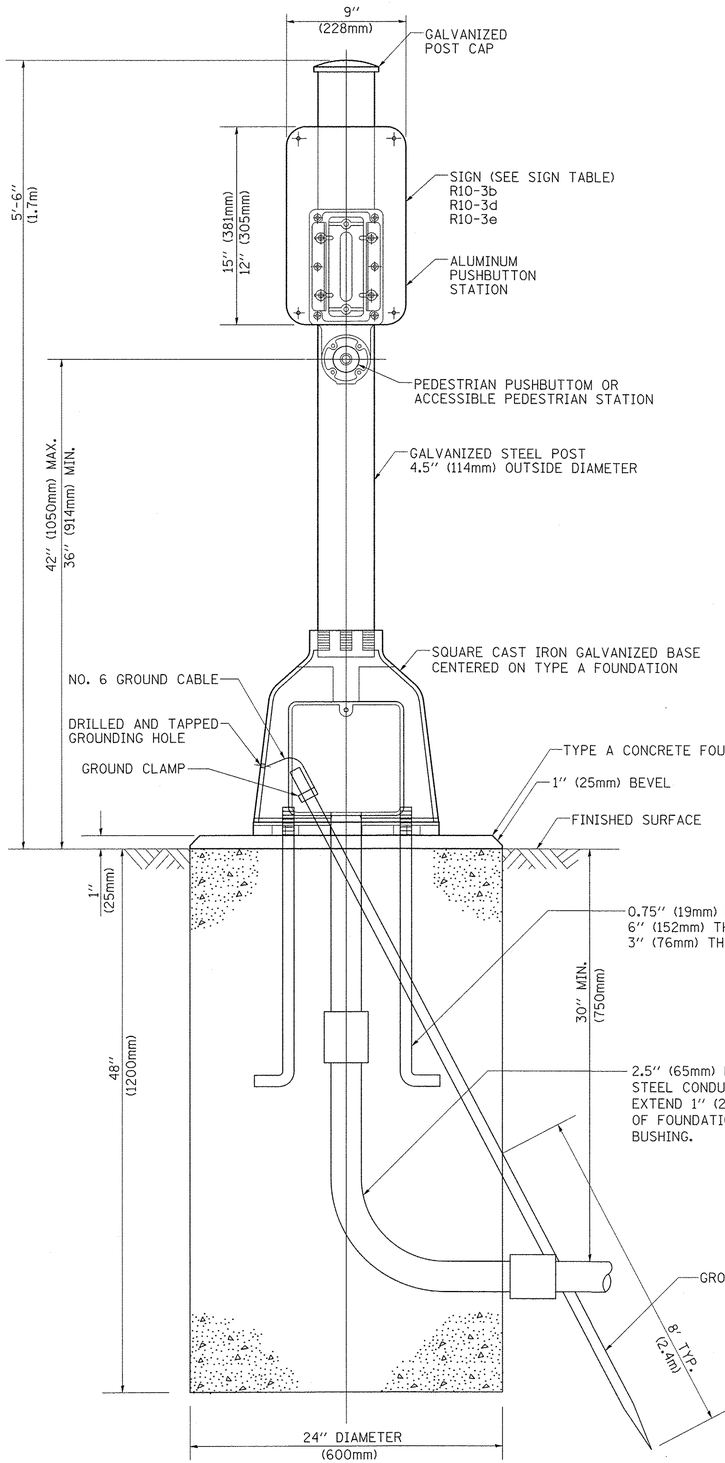
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

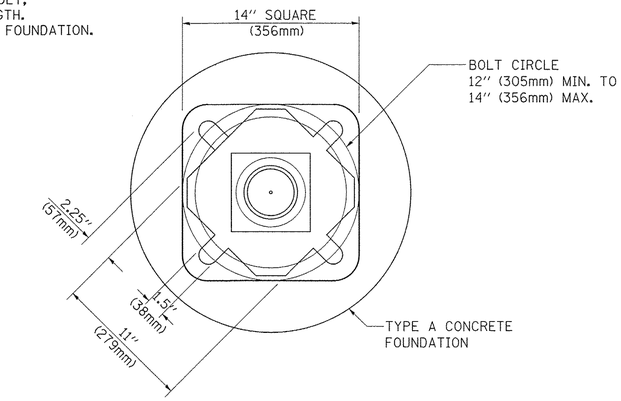
SCALE: NONE | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	63
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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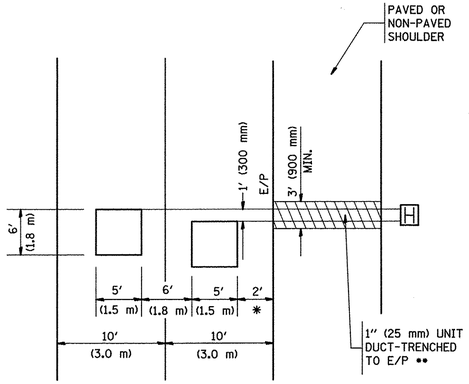
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	64
*1318 & 2562		CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		

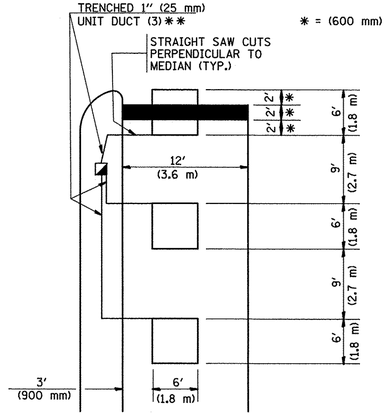
LOOPS NEXT TO SHOULDERS



* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

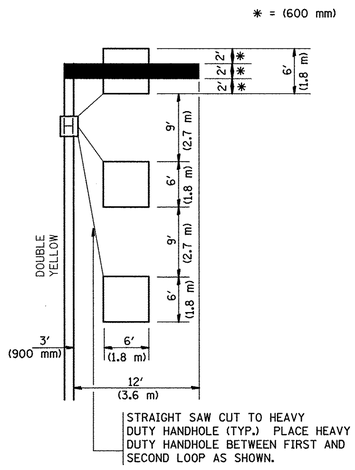
LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

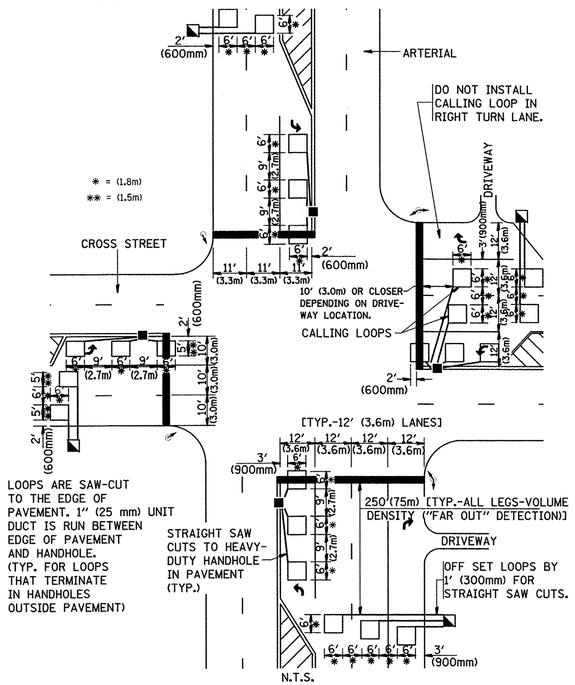
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



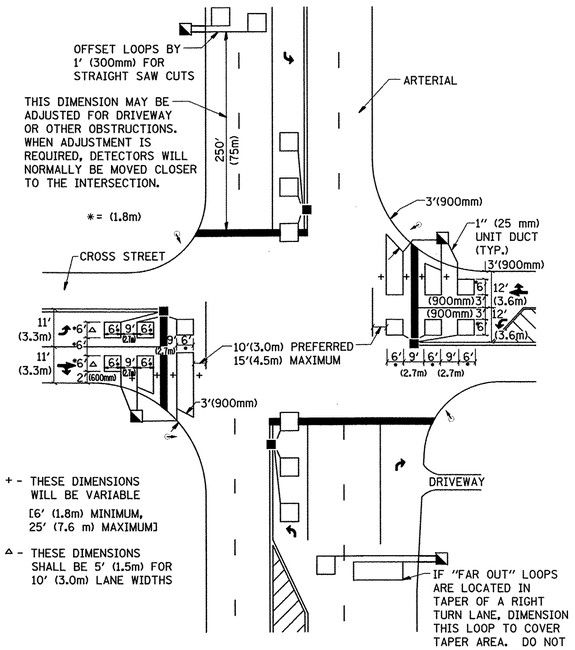
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (I.e. 1-1/2, 1-3/4, 2).
* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	15-00095-00-RS	COOK	65	65
	*1318 & 2562	CONTRACT NO. 61D75		
FED. ROAD DIST. 1	ILLINOIS	FED. AID PROJECT M-4003(798)		