FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF APPLICABLE HIGHWAY STANDARDS SEE SHEET 2

01/19/2018 LETTING ITEM 073

TRAFFIC DATA

OKETO AVENUE

WILSON AVENUE ADT (YEAR) = 4,000 (2014)

J.U.LI.E.

8-1-1 OR 1-800-892-0123

BB

DESIGN DESIGNATION:

ADT (YEAR) = 7,300 (2014) POSTED SPEED LIMIT = 30 MPH

POSTED SPEED LIMIT = 30 MPH

MAJOR COLLECTOR (NORTH OKETO AVENUE) MINOR COLLECTOR (WEST WILSON AVENUE)

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD

CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS

CHRISTOPHER B. BURKE ENCINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



OKETO AVENUE AND WILSON AVENUE

GROSS LENGTH OF PROJECT = 3,097 LINEAL FEET (0.59 MILES) NET LENGTH OF PROJECT = 3,097 LINEAL FEET (0.59 MILES)

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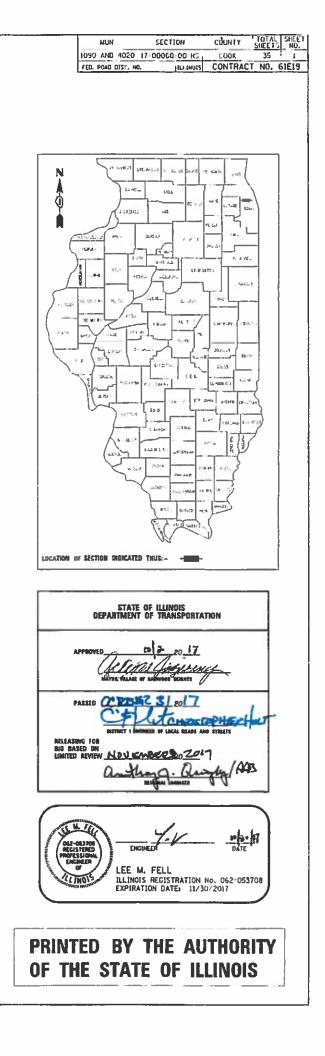
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CONTRACT NO. 61E19

EXPIRATION DATE: 04/30/19

PROFESSIONAL DESIGN FIRM NO. 184-001175

NalkARWOODHEICHTSBIT01940CIvNBcvr.170194.aht



GENERAL NOTES

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS". THE LATEST REVISION; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", (IMUTCD); "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JUNE 2014 SEVENTH EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT HIGHWAY STANDARD. CODES OF THE IEPA TITLE 35, AND O.S.H.A. SHALL BE ADHERED TO FOR THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.

ALL REQUIRED PERMITS FROM THE PROPER GOVERNING AGENCY SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITY FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE COVERED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 8-1-1 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE.

THE CONTRACTOR SHALL CONTACT IDOT'S BUREAU OF MATERIALS (PHONE 847-705-4337) AT LEAST 24 HOURS BEFORE PLACING HOT-MIX ASPHALT OR PORTLAND CEMENT CONCRETE.

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	PLOT SCALE = 20'	CHECKED – LMF	REVISED -	
Default	PLOT DATE = 11/7/2017	DATE –	REVISED -	

	DESCRIPTION	SHEET NO.
	COVER SHEET	1
	GENERAL NOTES AND HIGHWAY STANDARDS	2
MISCELLANEOUS	SUMMARY OF QUANTITIES	3
	TYPICAL SECTIONS	4–5
DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS	OKETO AVENUE EXISTING CONDITIONS AND REMOVAL PLAN	6–8
AND BEGINNING CONSTRUCTION.	WILSON AVENUE EXISTING CONDITIONS AND REMOVAL PLAN	9–10
ALL SAWCUTTING SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.	OKETO AVENUE PROPOSED PLAN	11–13
	WILSON AVENUE PROPOSED PLAN	14–15
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, SIDEWALK REMOVAL AND REPLACEMENT, DRIVEWAY REMOVAL AND REPLACEMENT, AND STRUCTURES TO BE ADJUSTED WILL BE DETERMINED BY THE ENGINEER IN THE FIELD AND WILL NOT EXCEED THE PLANNED QUANTITY.	OKETO AND WILSON AVENUE SOUTHWEST AND NORTHEAST CORN SIDEWALK REPLACEMENT PLAN	ER 16
THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASIS ON WHICH	OKETO AND WILSON AVENUE SOUTHEAST CORNER SIDEWALK REPLACEMENT PLAN	17
THEY ARE TO BE PLACED. PLAN THICKNESSES SHOULD BE CONSIDERED THE MINIMUM THICKNESS PERMITTED.	PROPOSED DRAINAGE PLAN	18
	CONSTRUCTION DETAILS	19
DETECTABLE WARNINGS SHALL BE INSTALLED AT INTERSECTING STREETS, DRIVEWAYS, AND ALLEYS AS SHOWN ON THE PLANS (SEE DETAILS ON SHEETS 16&17).	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-2	4) 20
PAVEMENT GRADES: THE ELEVATIONS INDICATED ON THE PLANS ARE FINISHED GRADES	BUTT JOINT & HMA TAPER DETAILS (BD–32)	21
OF PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.	FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)	22
AND THE FORECAST FOR THE NEXT 7 DAYS SHOWS TEMPERATURES OF 80 OR LESS. IF	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	23
ALL OTHER PAY ITEMS ARE COMPLETED, THE CONTRACTOR WILL NOT BE CHARGED WORKING Days for delays in parkway restoration due to temperature.	DETECTOR LOOP INSTALLATION PLAN FOR WILSON AVENUE AND HARLEM AVENUE (RECEIVED FROM IDOT)	24
NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS,	25
AT NO TIME SHALL LESS THAN HALF OF THE STREET BE AVAILABLE FOR PARKING.	INTERSECTIONS, AND DRIVEWAYS (TC-10)	
CONCRETE FILL BETWEEN NEW CURB AND GUTTER AND EXISTING PAVEMENT: FILLING THE GAP BETWEEN THE EXISTING PAVEMENT AND PROPOSED CURB AND	TYPICAL PAVEMENT MARKINGS (TC-13)	26–32
GUTTER REMOVAL AND REPLACEMENT SHALL BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 606001.	ARTERIAL ROAD INFORMATION SIGN (TC-22)	33
ALL DETECTABLE WARNING TACTILES SHALL BE FIELD VERIFIED AND THE SIZE TO BE DETERMINED BY THE CONTRACTOR PRIOR TO ORDERING.	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)	34
	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS–07)	35

	DATE SENT TO UTILITY COMPANY	RESPONSE DATE	COMMENTS
(DISTRIBUTION)			
1000 COMMERCE DRIVE, FLOOR 1			
OAKBROOK, ILLINOIS 60523	7/24/2017	8/14/2017	NO CONFLICTS ANTICIPATED
ATTN: STEVE LARSON			
Office 630-573-5450			
CAST			
688 INDUSTRIAL DRIVE			
ELMHURST, IL 60126	7/24/2017	7/31/2017	NO CONFLICTS ANTICIPATED
ATTN: MARTHA GIERAS			
Office: 630-600-6352			
ED			
7601 S. LAWNDALE AVENUE			
CHICAGO, IL 60652	7/24/2017		
ATTN: PETER KRATZER			
Mobile: 708-518-6209			
ECHNOLOGY			
565 WILLOWBROOK CENTRE PARKWAY	7/24/2017		
WILLOWBROOK, IL 60527			
ATTN: DOUG GONES			
Office: 630-343-2826			
ENGINEERING			
921 W. VAN BUREN STREET			
CHICAGO, IL 60607	7/24/2017		
ATTN: JAMES NORTON			
Office: 312-432-0076			
R GAS			
1844 FERRY ROAD			
NAPERVILLE, IL 60563	7/24/2017	8/18/2017	NO CONFLICTS ANTICIPATED
ATTN: BRUCE KOPPANG			
Office: 630-388-3046			
NT NEXTEL CORPORATION			
5600 N. RIVER ROAD, SUITE 200			
ROSEMONT, IL 60018	7/24/2017	7/26/2017	NO CONFLICTS ANTICIPATED
ATTN: JIM BURTON			
Mobile: 708-955-6659			

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DISTR BD-08 BD-22 BD-24 BD-32

BD-32 TC-10 TS-05 TS-07 TC-13 TC-22

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND HIG

SHEET

SCALE:

OF SHEETS

INDEX OF SHEETS

HIGHWAY STANDARDS

01-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
01-07	TEMPORARY EROSION CONTROL SYSTEMS
01-10	CURB RAMPS FOR SIDEWALKS
06-03	DIAGONAL CURB RAMPS FOR SIDEWALKS
1-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
6-04	MID-BLOCK CURB RAMPS FOR SIDEWALKS
01-03	CLASS C AND D PATCHES
01-04	FRAME AND LIDS TYPE 1
01-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
06-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24'' (600 MM) FROM PAVEMENT EDGE
01-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24'' (600 MM) FROM PAVEMENT EDGE
01-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
1-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
01-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
01-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
01-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
01-07	TRAFFIC CONTROL DEVICES
01-05	TYPICAL PAVEMENT MARKINGS
01-01	DETECTOR LOOP INSTALLATIONS

DISTRICT 1 STANDARDS

FRAMES AND LIDS ADJUSTMENT WITH MILLING PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT BUTT JOINT AND HMA TAPER DETAILS TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS STANDARD TRAFFIC SIGNAL DESIGN DETAILS DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING DISTRICT ONE TYPICAL PAVEMENT MARKINGS ARTERIAL ROAD INFORMATION SIGN

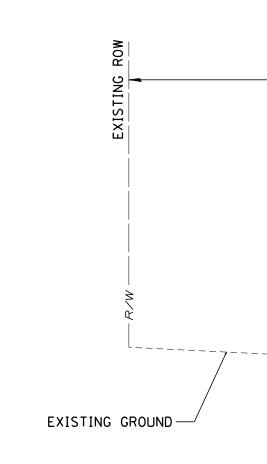
		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HWAY STANDARDS	1090 & 4020	17-00060-00-RS	СООК	35	2
			CONTRAC	T NO.	61E19
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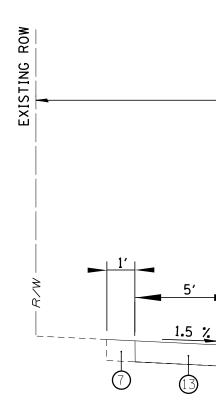
SUMMARY OF QUANTITIES

			CONSTRUCTION CODE 0005
CODE NO.	ITEM	UNIT	TOTAL QUANTI
20800150	TRENCH BACKFILL	CU YD	50
28000510	INLET FILTERS	EACH	43
40500290	BITUMINOUS MATERIALS (TACK COAT)	POUND	9000
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	175
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	693
40500982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	170
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1385
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	497
42400800	DETECTABLE WARNINGS	SQ FT	300
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	11200
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	497
44000600	SIDEWALK REMOVAL	SQ FT	4164
44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	250
	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	250
	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	250
	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	250
	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	185
	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1
	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	8
		EACH	7
	FRAMES AND LIDS, TYPE 1, OPEN LID		
	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	9
	MOBILIZATION	LSUM	1
	IRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	50
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	100
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	235
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	205
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	340
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
88600600	DETECTOR LOOP REPLACEMENT	FOOT	120
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1868
Z0013798	CONSTRUCTION LAYOUT	LSUM	1
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	8
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	100
X0326862	STRUCTURES TO BE ADJUSTED	EACH	5
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	21
X4023000	TEMPORARY ACCESS (ROAD)	EACH	6
X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	4164
X6022712	CATCH BASINS, TYPE A, 4'-DIAMETER WITH SPECIAL FRAME AND GRATE	EACH	14
	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	18
X7015005	CHANGEABLE MESSAGE SIGN	CALDA	35
		CALUA	1

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	•	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						1





NOTES:

1.	PAVING OF THE FULL ROADWAY WIDTH SHALL BE COMPLETED AT THE END OF EACH
	DAY OF PAVING TO PREVENT A LONGITUDINAL COLD JOINT FROM APPEARING WHEN
	OPPOSITE SIDES OF THE ROAD ARE PAVED ON DIFFERENT DAYS. THE CONTRACTOR
	SHALL ALSO ENSURE THAT AT THE END OF EACH DAY EACH PASS ENDS AT
	APPROXIMATELY THE SAME STATION TO PREVENT A COLD JOINT.

2. ALL CURB AND GUTTER AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE SPOT REPAIR ONLY AS DIRECTED BY THE ENGINEER.

<u>LEGEND</u>

1	EXISTING HOT-MIX ASPHALT PAVEMENT
2	EXISTING AGGREGATE SUBBASE
3	EXISTING CURB AND GUTTER
4	EXISTING AGGREGATE BASE
5	EXISTING PCC SIDEWALK
6	HOT-MIX ASPHALT SURFACE REMOVAL, 2
7	SODDING, SALT TOLERANT (INCLUDED IN CONCRETE CURB AND GUTTER REMOVAL REMOVAL AND REPLACEMENT PAY ITEMS
	••RESTORATION/LANDSCAPING PAY ITEM BE DECIDED IN PHASE 2
8	COMBINATION CONCRETE CURB AND GUT (SPOT REPAIR) (AS DIRECTED BY THE E
80	4" SUBBASE GRANULAR MATERIAL TYPE COMBINATION CONCRETE CURB AND GUT

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STATE OF ILLINOIS		OKETO AV Typical se
DEPARTMENT OF TRANSPORTATION		ITPICAL SEC
	SCALE: 50'	SHEET NO. 4 OF 35 SHEET

2% MIN.

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(12)

2%

(12)

<u>STA. 18+90 TO STA. 34+63, OKETO AVENUE</u>

8

9 PROPOSED BITUMINOUS MATERIAL (TACK COAT)

(1) LEVELING BINDER (MACHINE METHOD), N50 - 1"

CEMENT CONCRETE SIDEWALK, 5 INCH)

PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SPOT REPAIR AS DIRECTED BY THE ENGINEER) (SIDEWALKS THROUGH DRIVEWAYS SHALL BE 7 INCHES THICK -THIS WORK WILL BE INCLUDED IN THE PAY ITEM FOR PORTLAND

10 HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N50 - 2"

(2) CLASS D PATCHES, 6 INCH

STA. 18+90 TO STA. 34+63, OKETO AVENUE

(3)(8)

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1.5 %

EXISTING GROUND

2% MIN.

2%

(10)

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PROPOSED TYPICAL SECTION

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6

(4)

EXISTING TYPICAL SECTION

21

LAR MATERIAL TYPE B. (INCLUDED IN COST OF RETE CURB AND GUTTER REMOVAL AND REPLACEMENT)

RETE CURB AND GUTTER (B-6.12) REMOVAL AND REPLACEMENT DIRECTED BY THE ENGINEER)

NDSCAPING PAY ITEMS AND BASIS OF PAYMENT WILL ASE 2

ACEMENT PAY ITEMS)

LERANT (INCLUDED IN THE COST OF COMBINATION ND GUTTER REMOVAL AND REPLACEMENT AND SIDEWALK

SURFACE REMOVAL, 2.75"

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8

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
LEVELING BINDER (MACHINE METHOD), N50 - 1"	4% @ 50 GYR.
CLASS D PATCHES, 6 INCH	4% @ 70 GYR.

NOTE:

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SY/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 "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
- 4. THE HIGH SIDE OF THE ROADWAY SHALL BE PAVED FIRST.

REMOVAL ITEMS: 2.75"

CLASS D PATCHES

	CORE STATION	CORE NUMBER	ASPHALT TOTAL THICKNESS	SUBBASE THICKNESS
	35+48.68	1	8.0′′	14''
	32+91.02	2	11.7''	14"
CORES	29+38.08	3	10.8"	NP
PAVEMENT	26+83.78	4	11.9"	16"
AVE. PA	24+55 . 64	5	13.0"	NP
OKETO A	22+21.20	6	12.1"	NP
0	15+54.22	7	4.0''	6"
	12+01.58	8	4.0''	9"
CORES	23+20.80	9	13.7''	1''
PAVEMENT	23+29 . 49	10	11.3"	NP
. PAVE	23+41.18	11	12.6"	NP
WILSON AVE.	23+53.62	12	15.3''	NP
WILS	23+60.71	13	8.8′′	NP

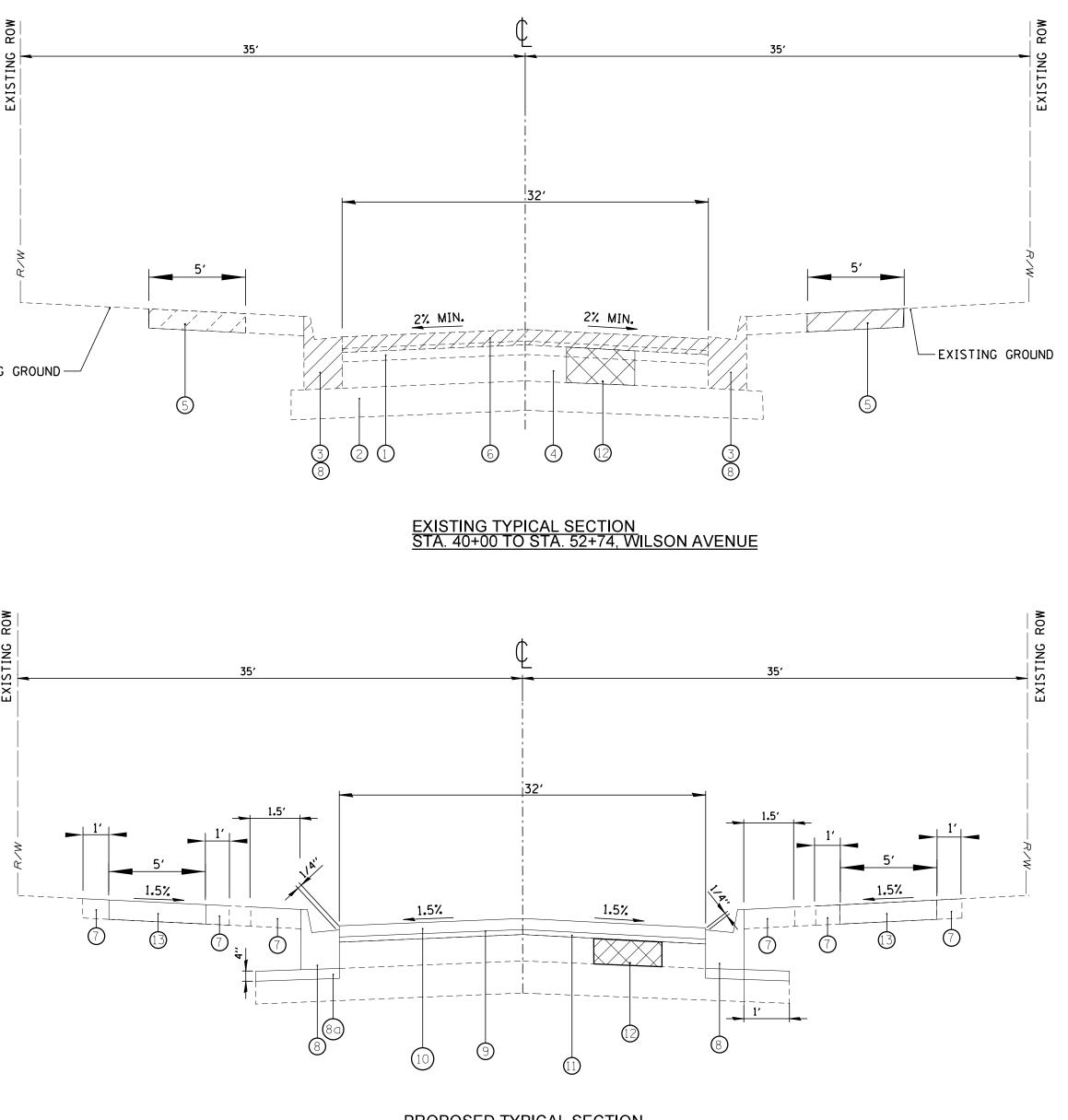
CORE DETAILS

AVG. (OKETO) 9.4'' 7.4′′ AVG. (WILSON) 12.3" 11 *NP = GRANULAR BASE NOT PRESENT

ENUE		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	IONS		1090 & 4020	17-00060-00-RS	СООК	35	4
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EXISTING GROUND -



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2. ALL CURB AND GUTTER AND SIDEWALK REMOVAL AND REPLACEMENT SHALL BE SPOT REPAIR ONLY AS DIRECTED BY THE ENGINEER.

1	EXISTING
2	EXISTING
3	EXISTING
4	EXISTING
5	EXISTING
6	HOT-MIX
7	SODDING, CONCRET REMOVAL
	••RESTOR BE DECID
8	COMBINA (SPOT RE
80	4" SUBB

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	PLOT SCALE = NOT TO SCALE	CHECKED -	LMF	REVISED -
	PLOT DATE = 11/7/2017	DATE -	7/24/17	REVISED -

PROPOSED TYPICAL SECTION STA. 40+00 TO STA. 52+74, WILSON AVENUE 1. PAVING OF THE FULL ROADWAY WIDTH SHALL BE COMPLETED AT THE END OF EACH DAY OF PAVING TO PREVENT A LONGITUDINAL COLD JOINT FROM APPEARING WHEN

IDES OF THE ROAD ARE PAVED ON DIFFERENT DAYS. THE CONTRACTOR ENSURE THAT AT THE END OF EACH DAY EACH PASS ENDS AT ELY THE SAME STATION TO PREVENT A COLD JOINT.

- <u>LEGEND</u>
- NG HOT-MIX ASPHALT PAVEMENT
- NG AGGREGATE SUBBASE
- NG CURB AND GUTTER
- NG AGGREGATE BASE
- NG PCC SIDEWALK
- ASPHALT SURFACE REMOVAL, 2.75"
- G. SALT TOLERANT (INCLUDED IN THE COST OF COMBINATION TE CURB AND GUTTER REMOVAL AND REPLACEMENT AND SIDEWALK AND REPLACEMENT PAY ITEMS)
- DRATION/LANDSCAPING PAY ITEMS AND BASIS OF PAYMENT WILL IDED IN PHASE 2
- ATION CONCRETE CURB AND GUTTER (B-6.12) REMOVAL AND REPLACEMENT REPAIR) (AS DIRECTED BY THE ENGINEER)
- BASE GRANULAR MATERIAL TYPE B. (INCLUDED IN COST OF
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT)

- 9 PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- 10 HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N50 2"
- (1) LEVELING BINDER (MACHINE METHOD), N50 1"
- (2) CLASS D PATCHES, 6 INCH
- PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (SPOT REPAIR AS DIRECTED BY THE ENGINEER) (SIDEWALKS THROUGH DRIVEWAYS SHALL BE 7 INCHES THICK -THIS WORK WILL BE INCLUDED IN THE PAY ITEM FOR PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH) CEMENT CONCRETE SIDEWALK, 5 INCH)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		W WILSON A TYPICAL SECT
	SCALE: 50'	SHEET NO. 5 OF 35 SHEETS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
LEVELING BINDER (MACHINE METHOD), N50 - 1"	4% @ 50 GYR.
CLASS D PATCHES, 6 INCH	4% @ 70 GYR.

NOTE:

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SY/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 "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
- 4. THE HIGH SIDE OF THE ROADWAY SHALL BE PAVED FIRST.

REMOVAL ITEMS: 2.75"

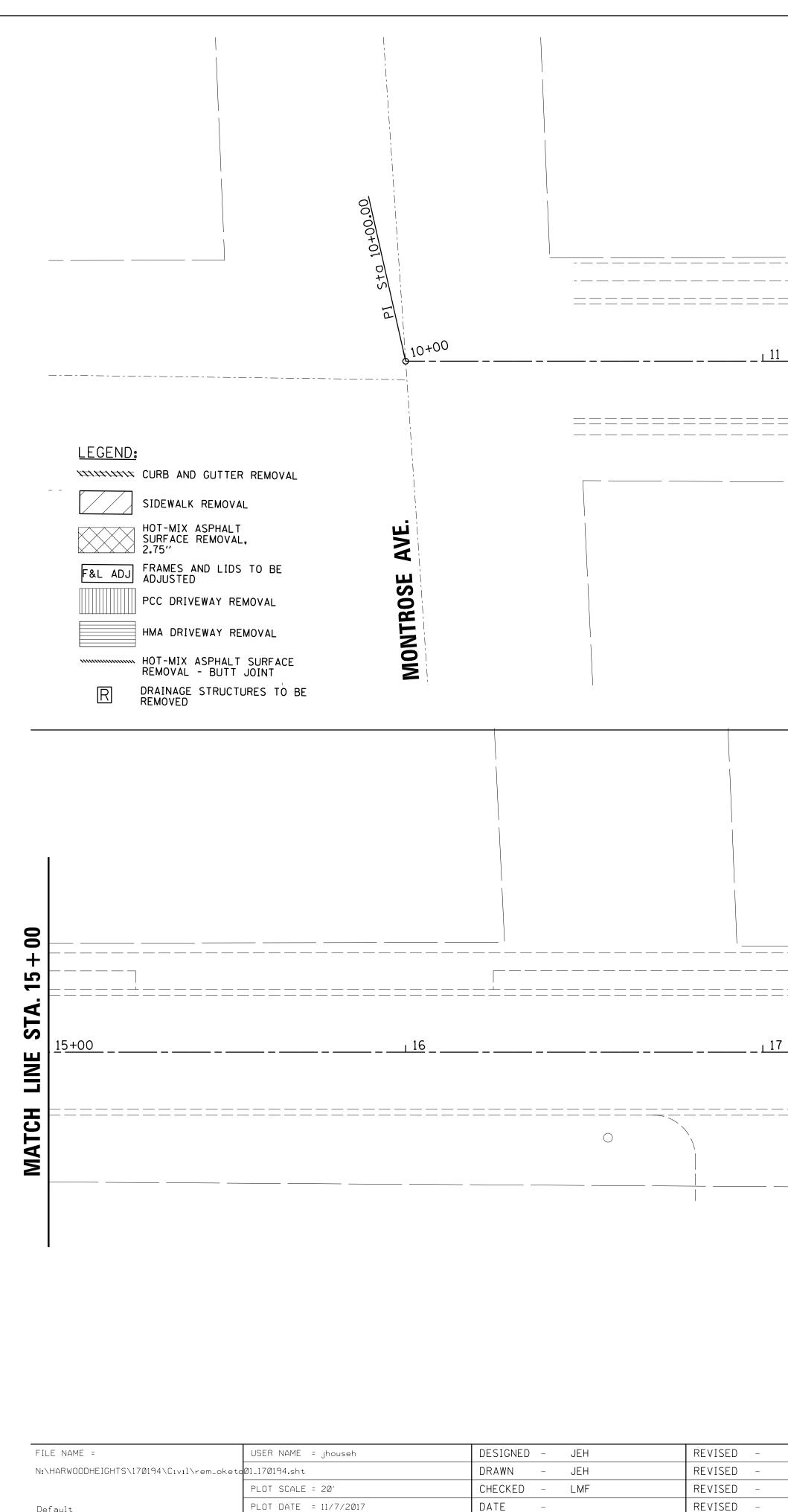
CLASS D PATCHES

_				
	CORE STATION	CORE NUMBER	ASPHALT TOTAL THICKNESS	SUBBASE THICKNESS
	35+48.68	1	8.0″	14"
	32+91.02	2	11.7''	14"
CORES	29+38.08	3	10.8"	NP
PAVEMENT	26+83.78	4	11.9"	16"
AVE. PAV	24+55.64	5	13.0"	NP
OKETO A	22+21.20	6	12.1"	NP
0	15+54.22	7	4.0''	6"
	12+01.58	8	4.0''	9''
CORES	23+20.80	9	13.7"	1''
PAVEMENT	23+29.49	10	11.3''	NP
	23+41.18	11	12.6"	NP
WILSON AVE.	23+53.62	12	15.3''	NP
MILS(23+60.71	13	8.8"	NP

CORE DETAILS

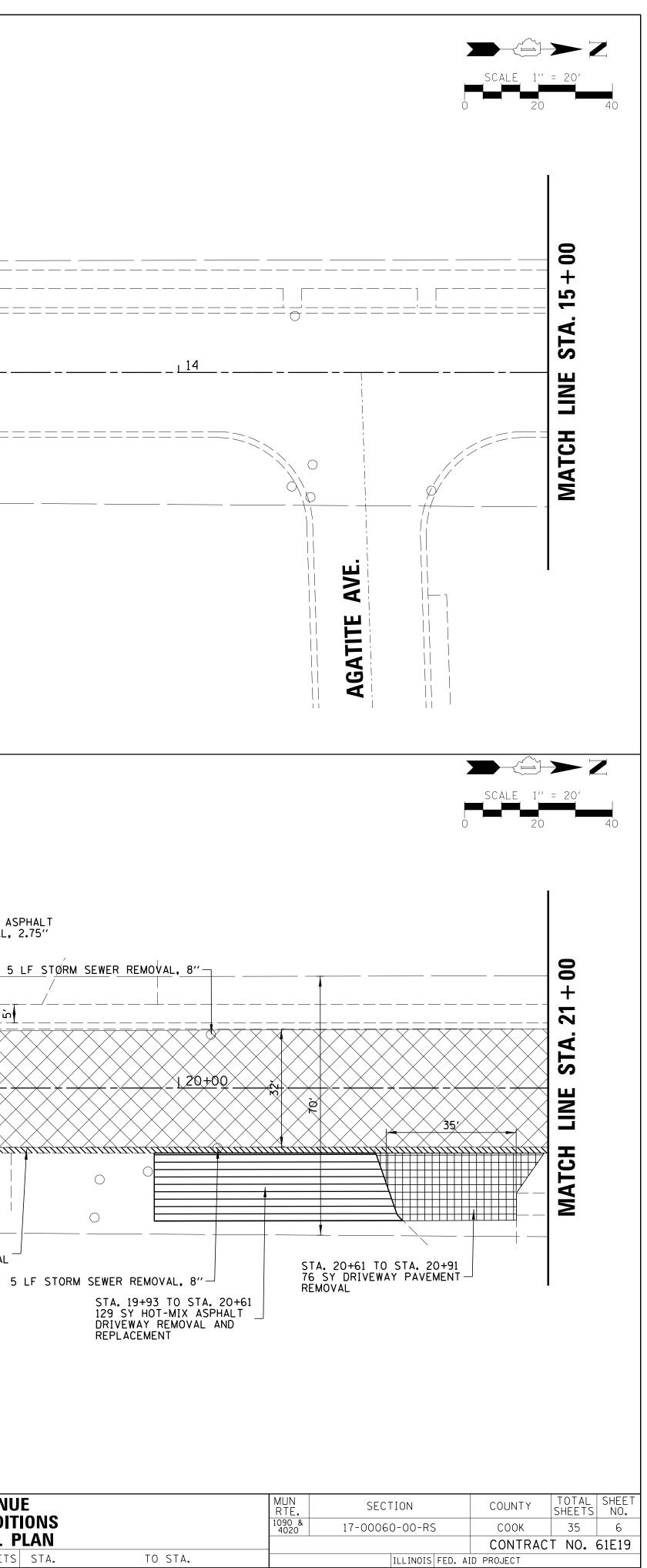
7.4′′ AVG. (OKETO) 9.4" AVG. (WILSON) 12.3" 11 *NP = GRANULAR BASE NOT PRESENT

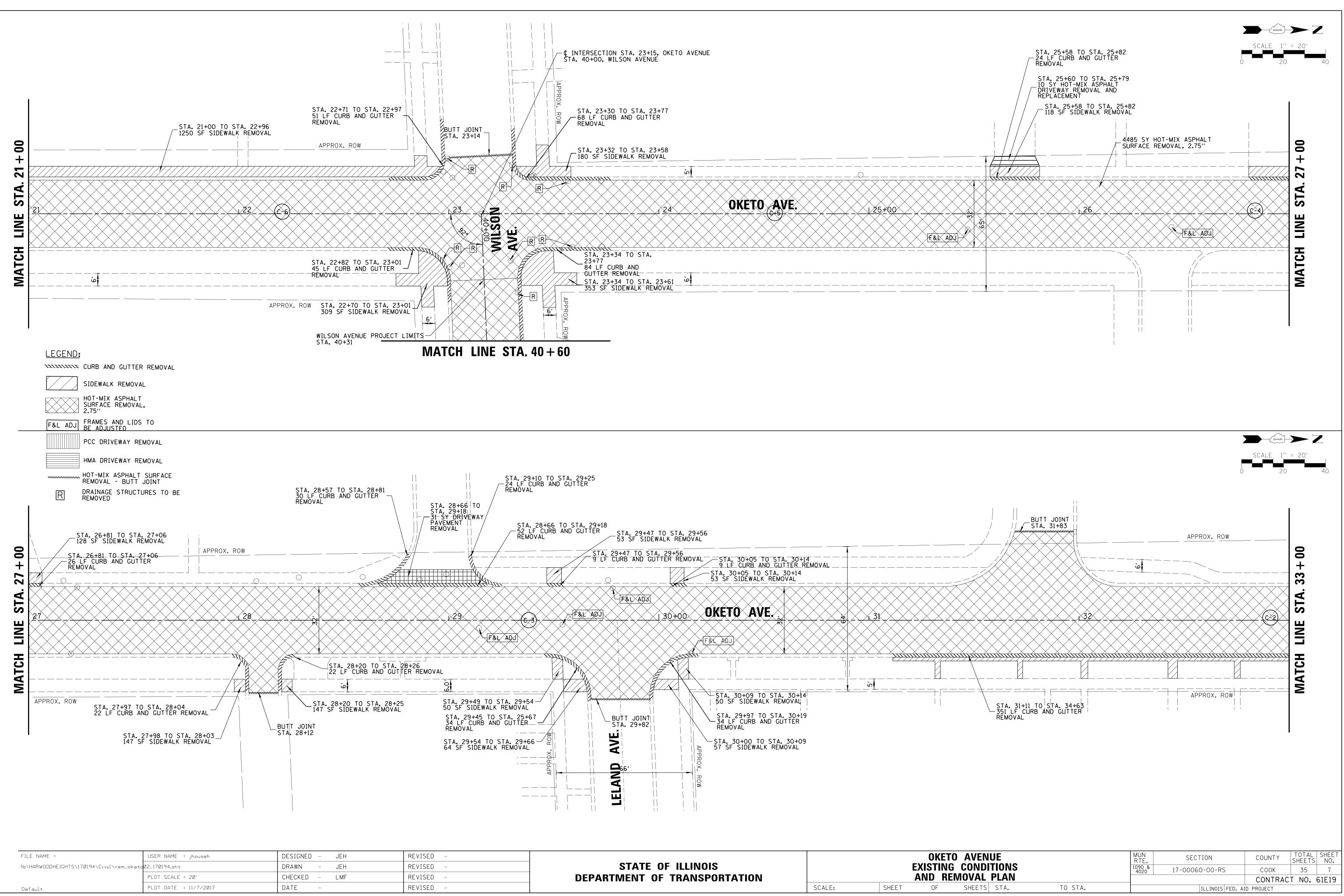
AVENUE		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	IONS		1090 & 4020	17-00060-00-RS	СООК	35	5
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5	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



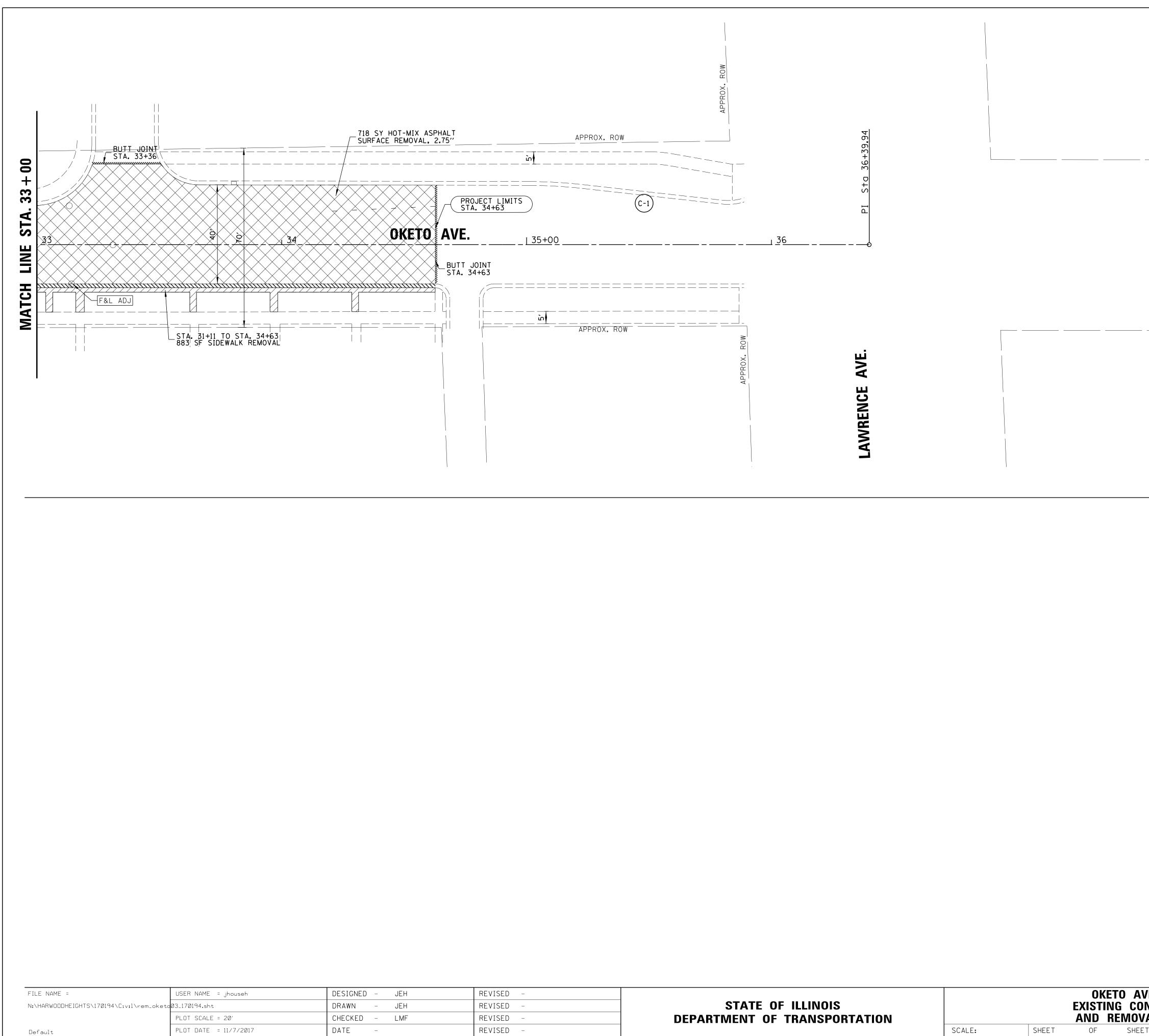
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	OKETO AVE.	
		HEIGHTS BOUNDARY
 OKETO AVE. 18		683 SY HOT-MIX A SURFACE REMOVAL.
	PROJECT LIMITS STA. 18+90	STA. 18+00 TO STA. 21+00 WY ONO STA. 18+00 TO STA. 21+00 WY ONO STA. 18+00 TO STA. 21+00 STA. 19+0 STA. 18+00 TO STA. 21+00 STA. 19+0 STA. 1
STATE OF ILLINOIS DEPARTMENT OF TRANSPO		OKETO AVEN EXISTING CONDI AND REMOVAL SHEET OF SHEET



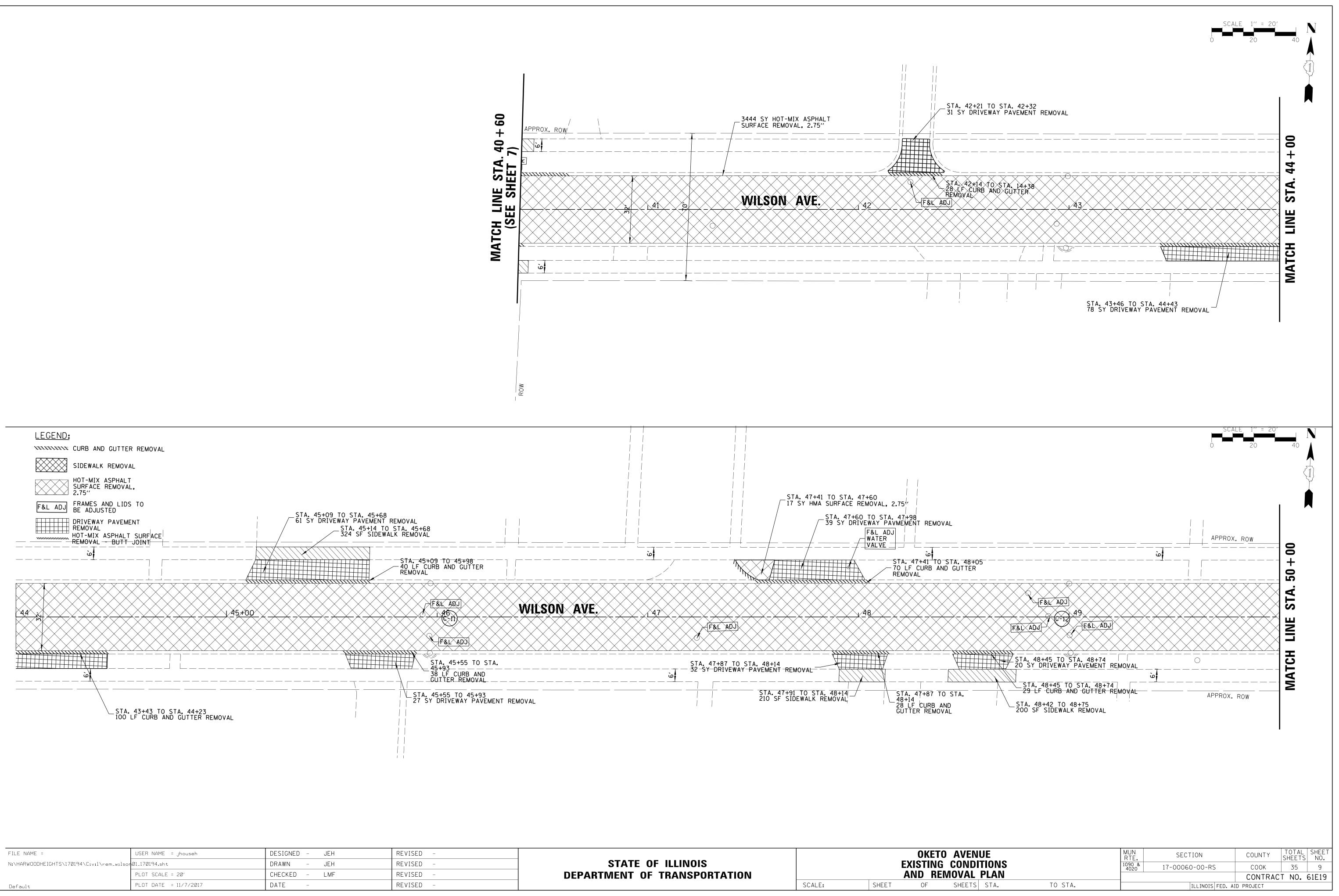


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	SCALE:	SHEET	OF	SHEETS

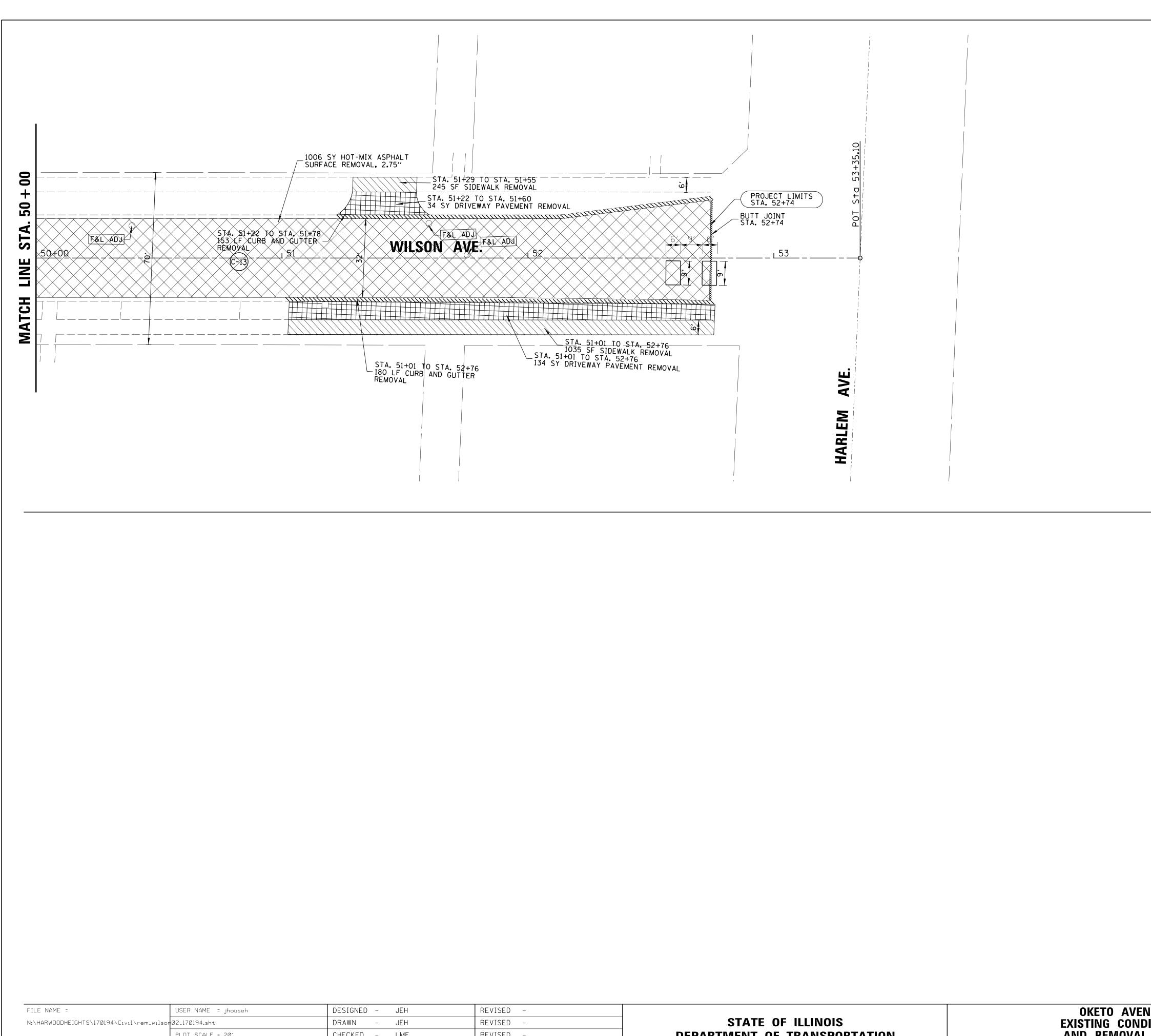


				ETO AVENUE		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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 DEPARTMENT OF TRANSPORTATION		1	AND I	REMOVAL PLAN				CONTRA	CT NO.	61E19
	SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS F	ED. AID PROJECT		

SCALE $1'' = 20'$ 0 20 40
LEGEND:
 CURB AND GUTTER REMOVAL
F&L ADJ FRAMES AND LIDS TO BE ADJUSTED PCC DRIVEWAY HMA DRIVEWAY REMOVAL
REMOVAL - BUTT JOINT REMOVAL - BUTT JOINT R DRAINAGE STRUCTURES TO BE REMOVED

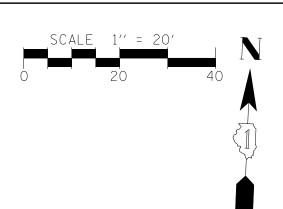


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	SCALE:	SHEET	OF	SHEETS



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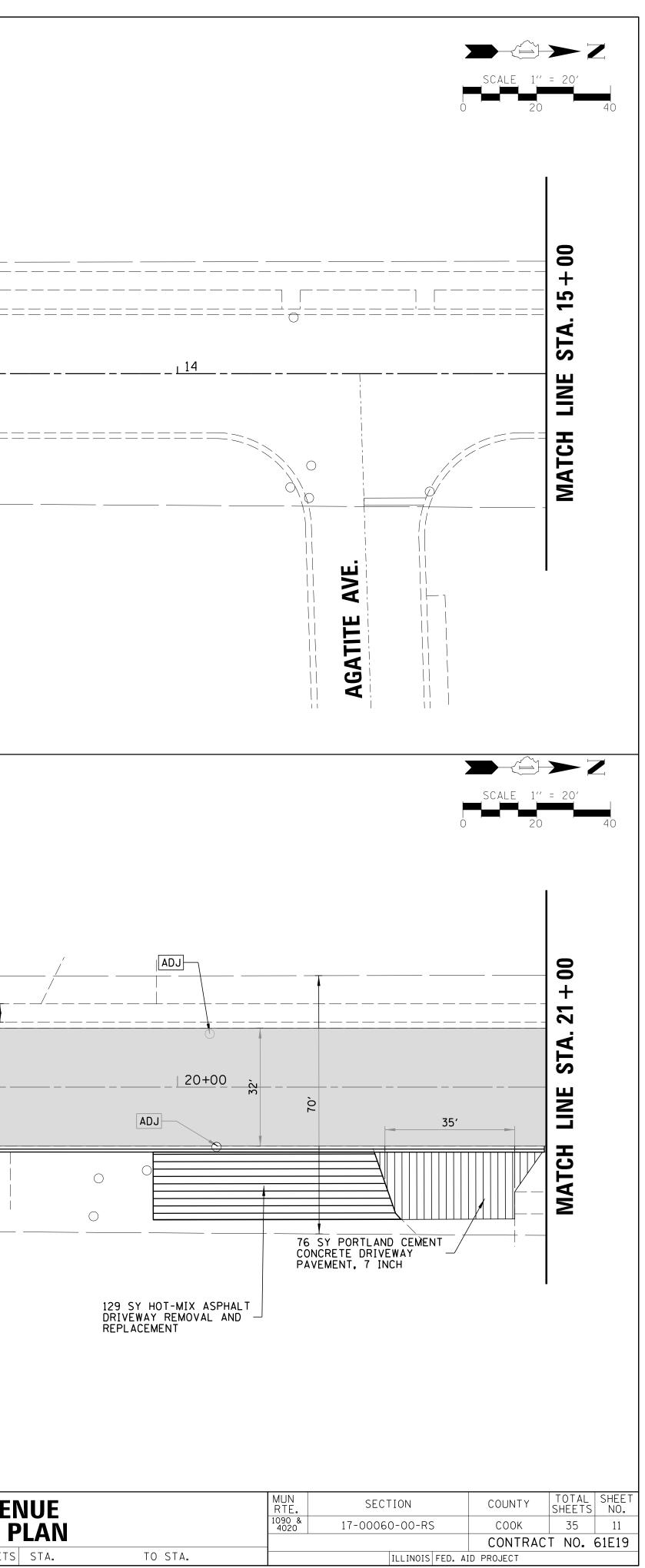
			DKETO	AVENUE		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
 STATE OF ILLINOIS						1090 & 4020	17-00060-00-RS	СООК	35	10
DEPARTMENT OF TRANSPORTATION			J KEIVI	OVAL PLAN		-		CONTRA	CT NO.	61E19
	SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

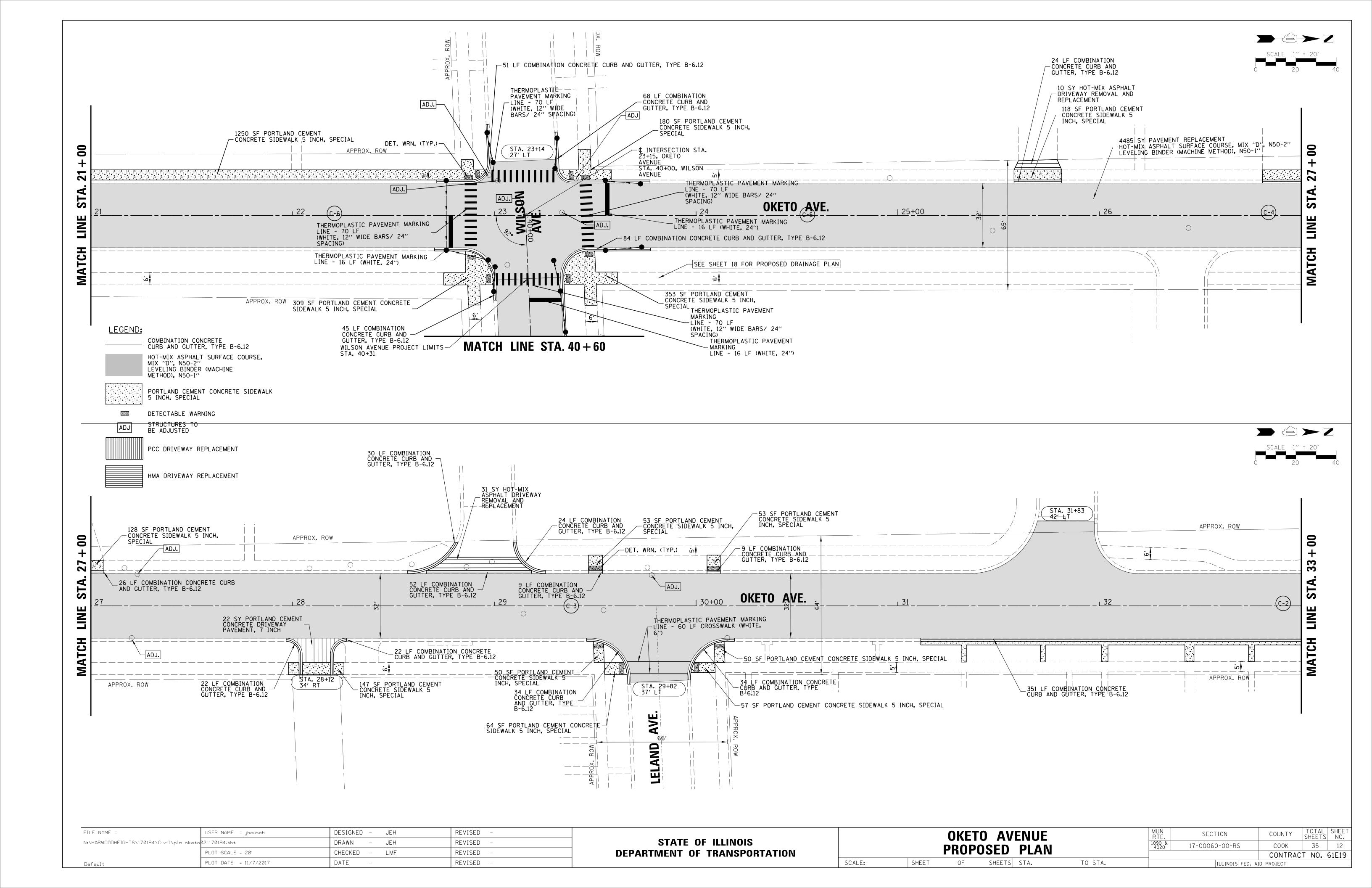


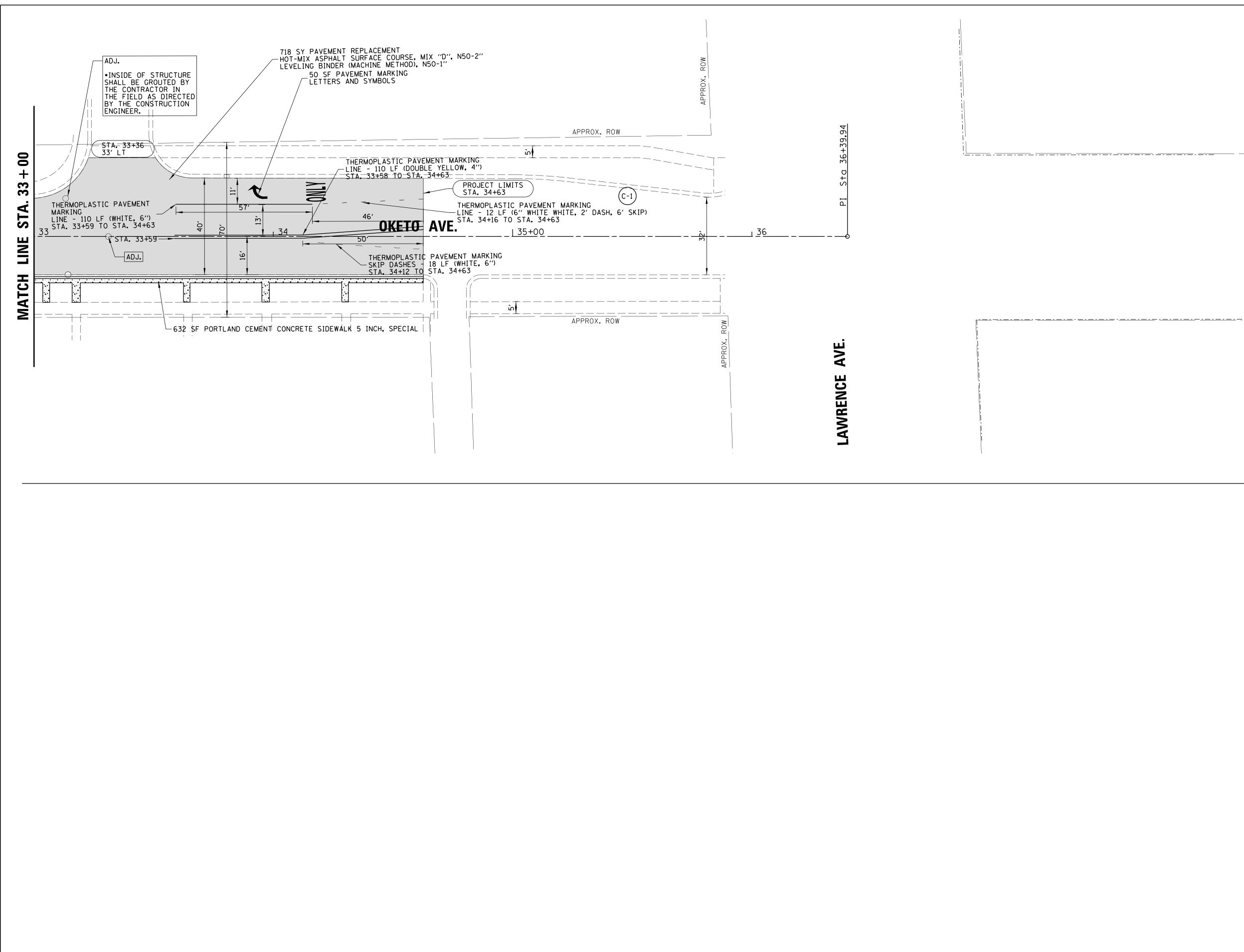
<u>LEGEND:</u>

1411411414	CURB AND GUTTER REMOVAL
	SIDEWALK REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL, 2.75″
F&L ADJ	FRAMES AND LIDS TO BE ADJUSTED
	DRIVEWAY PAVEMENT REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

_		540 10400					
_		ā) 10+00			<u>12</u>	OKETO AVE.	<u>13</u>
_	LEGEND: COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.1 HOT-MIX ASPHALT SURFACE CO MIX "D", N5O-2" LEVELING BINDER (MACHINE METHOD), N5O-1" PORTLAND CEMENT CONCRETE S 5 INCH, SPECIAL DETECTABLE WARNING STRUCTURES TO	URSE, OUL					
00+	ADJ BE ADJUSTED PCC DRIVEWAY REPLACEMENT HMA DRIVEWAY REPLACEMENT						HARWOOD HEIGHTS BOUNDARY
LINE STA. 15	 	<u> 16</u>			OKETO AVE. 18	PROJECT LIMITS STA. 18+90	in i19
MATCH							HARWOOD HEIGHTS BOUNDARY
N:\}	E NAME = USER NAME HARWOODHEIGHTS\170194\Cıvıl\pln_oketo PLOT SCALE Fault PLOT DATE	DR E = 20' CH	SIGNED – JEH AWN – JEH IECKED – LMF .TE –	REVISED-REVISED-REVISED-REVISED-	STATE OF ILLIN DEPARTMENT OF TRANS	SPORTATION	CALE: SHEET OF SHEET



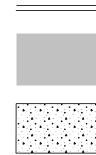




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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				O AV DSED
	SCALE:	SHEET	OF	SHEETS

LEGEND:



COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-2" LEVELING BINDER (MACHINE METHOD), N50-1"

SCALE 1'' = 20

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL

DETECTABLE WARNING STRUCTURES TO BE ADJUSTED ADJ

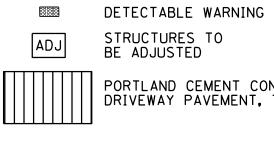


PCC DRIVEWAY REPLACEMENT

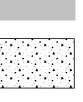
HMA DRIVEWAY REPLACEMENT

/ENUE		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLAN		1090 & 4020	17-00060-00-RS	СООК	35	13		
FLAN CONTRACT NO. 6				61E19				
TS STA.	TO STA.		ILLINOIS FED. AID PROJECT					

o			40 LF COMBINATION _CONCRETE CURB AND GUTTER, TYPE B-6.12 (DEPRESSED)				ADJ WATER VALVE 70) ĈEMENT CONCRETE DRIV CH LF COMBINATION
<u>أ</u> فَ + 44 +			ADJ	INL, TA, T1F, OPEN LID	ؤن 			NCRETE CURB AND GUTTE PE B-6.12 PRESSED) — — — — — — —
LINE STA.	<u> 45+00</u>		GAS	LF STORM SEWER, RUBBER KET, CLASS A, TYPE 1, 12" WILSON AVE. 6 LF STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 12"	<u>_</u> 47		<u> 48</u>	
BATCH	100 LF COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (DEPRESSED)		ADJ. 27 SY PORTLAND CEMEN CONCRETE DRIVEWAY PA 7 INCH F COMBINATION RETE CURB AND ER, TYPE B-6.12 RESSED	INL, TA, T1F, OPEN LID	32 SY POF	CONCRETE	EMENT 5 INCH, MBINATION CURB AND IYPE B-6.12 D)	
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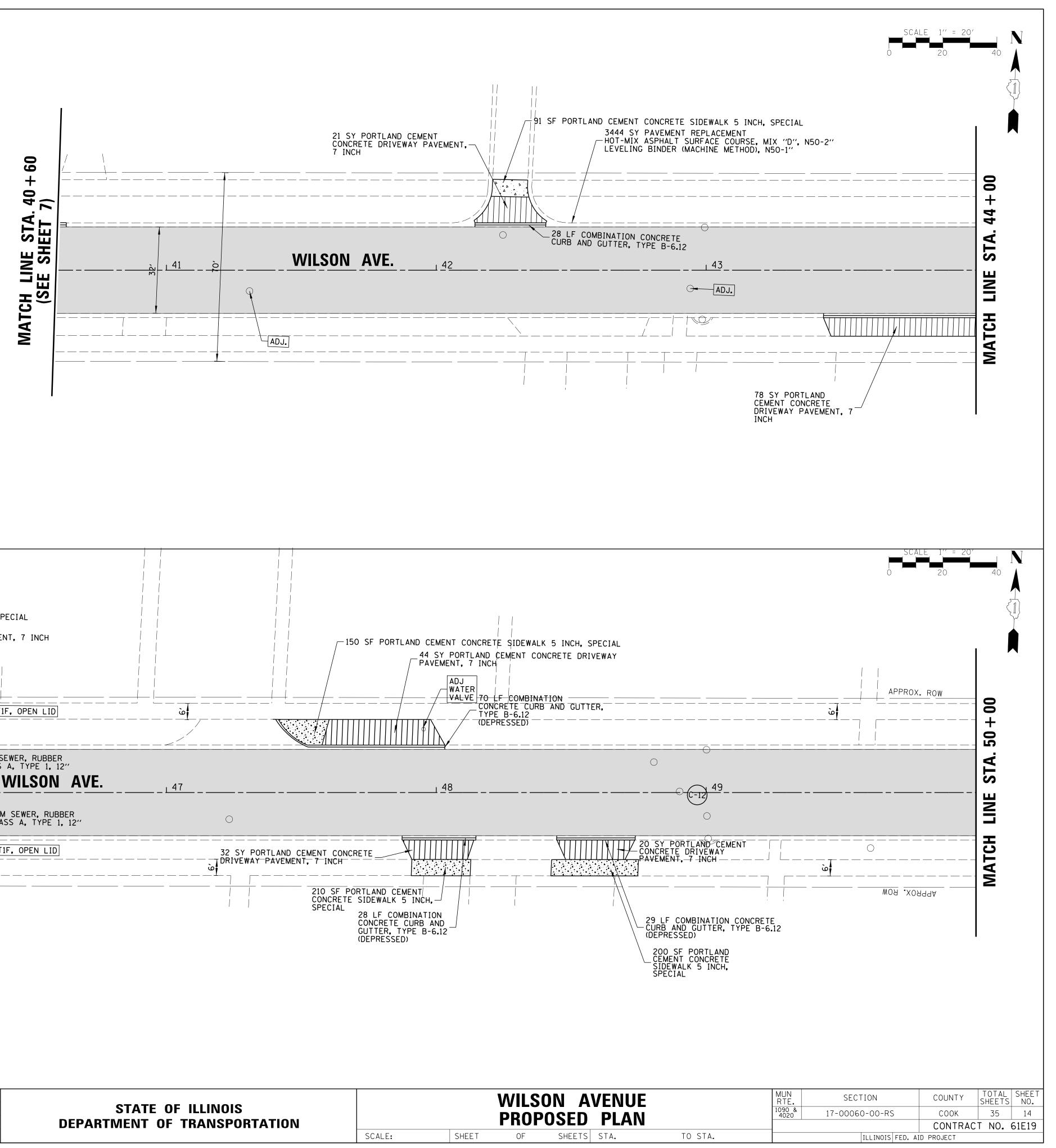
STRUCTURES TO BE ADJUSTED PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH

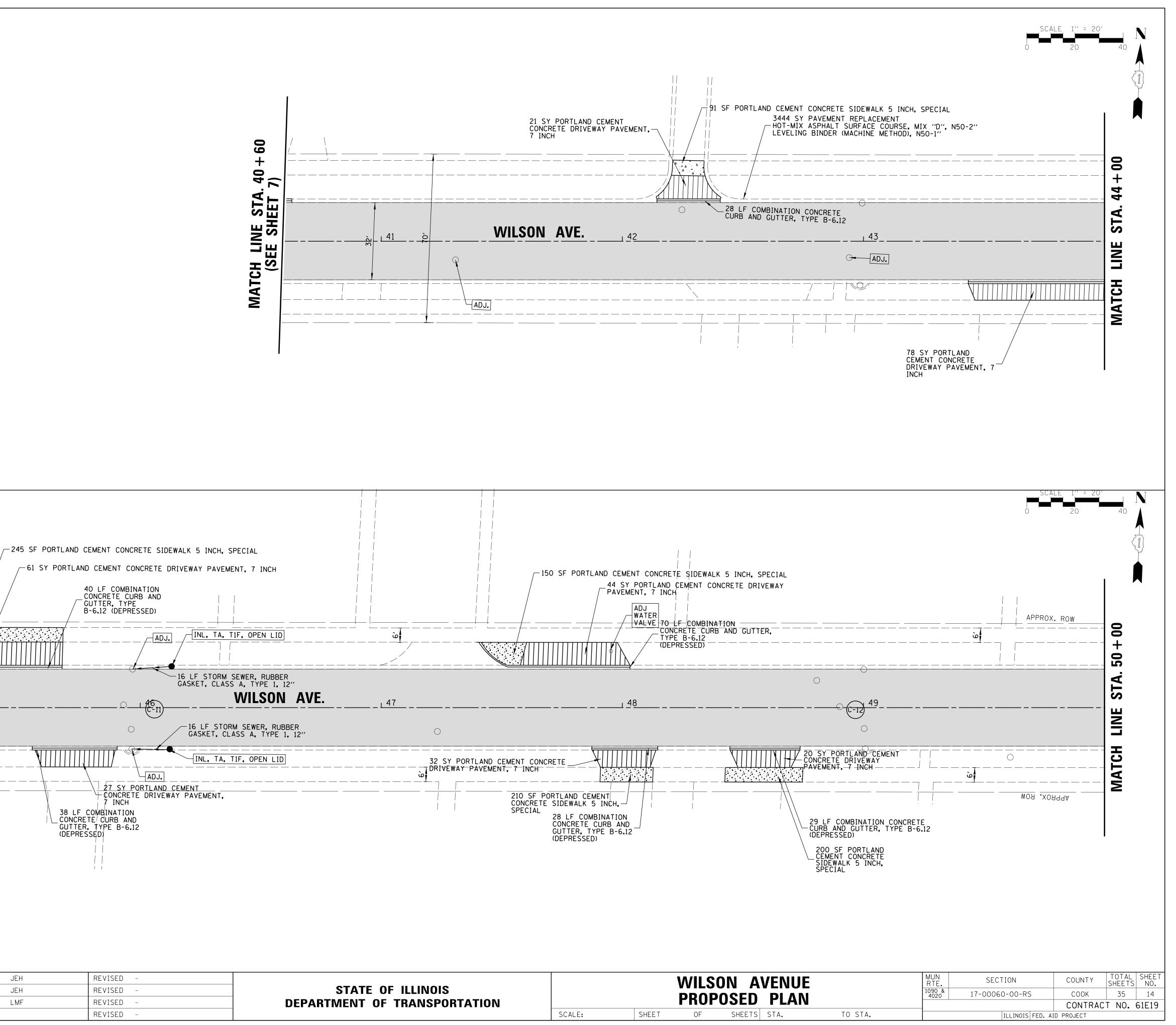


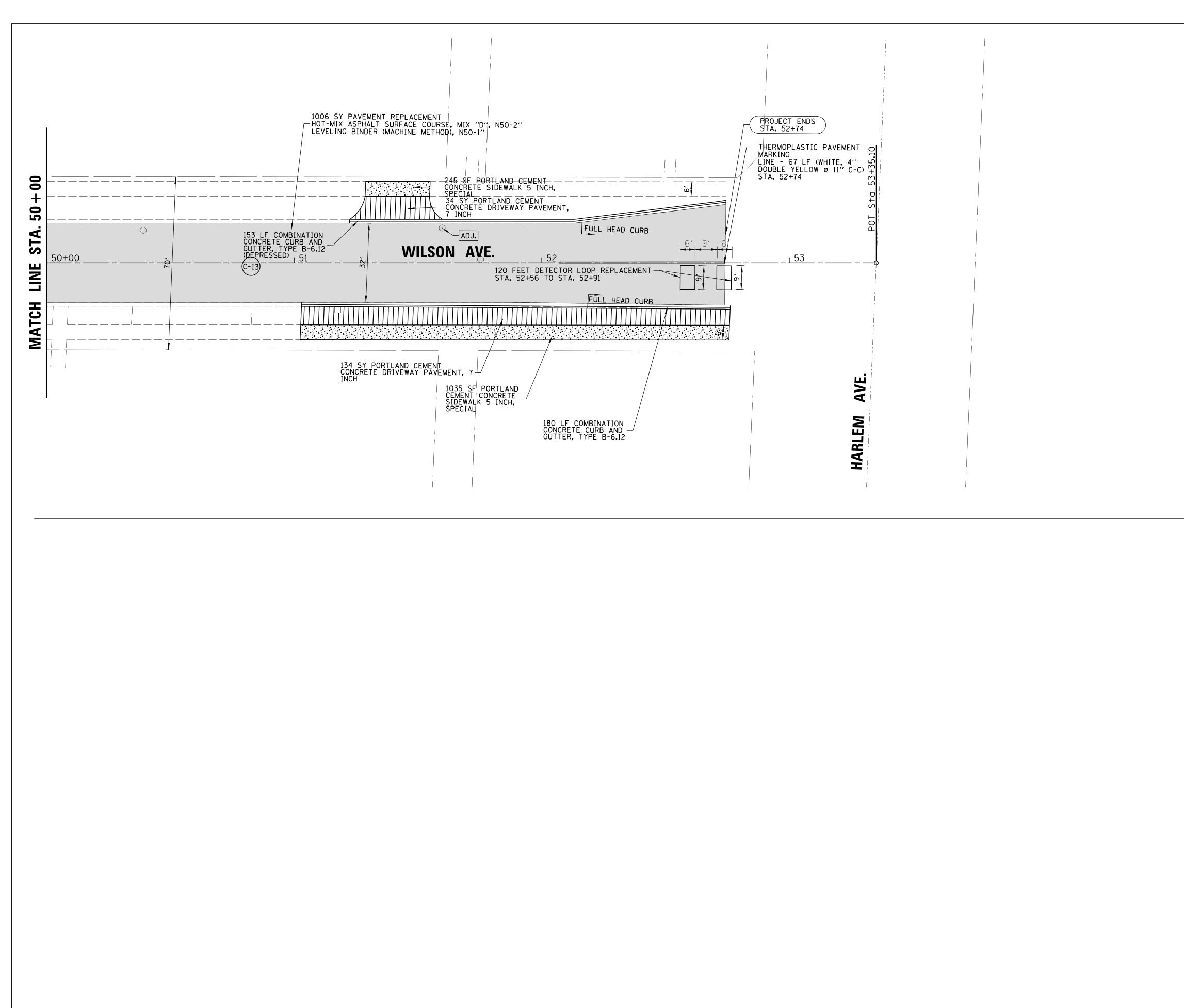
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N5O-2" LEVELING BINDER (MACHINE METHOD), N5O-1" PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

<u>LEGEND:</u>

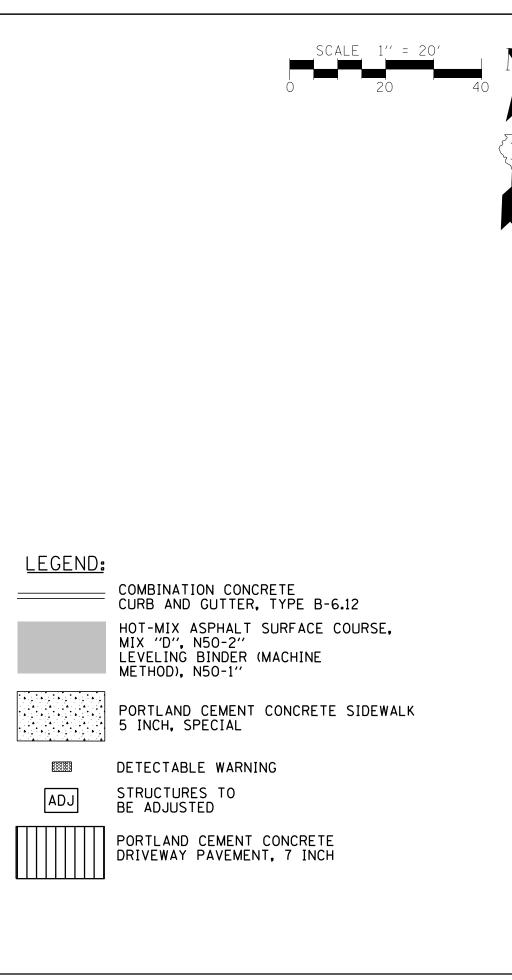




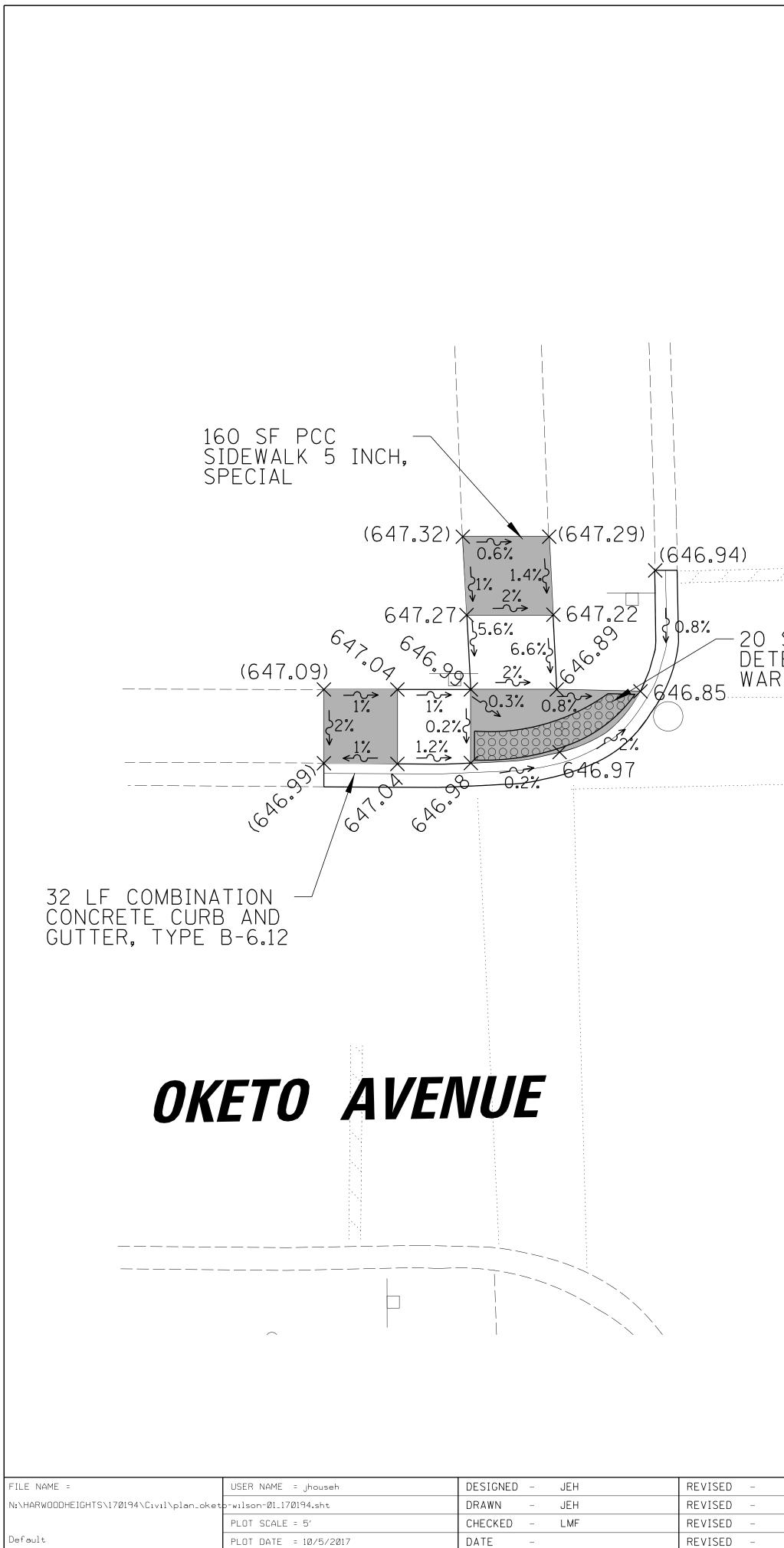


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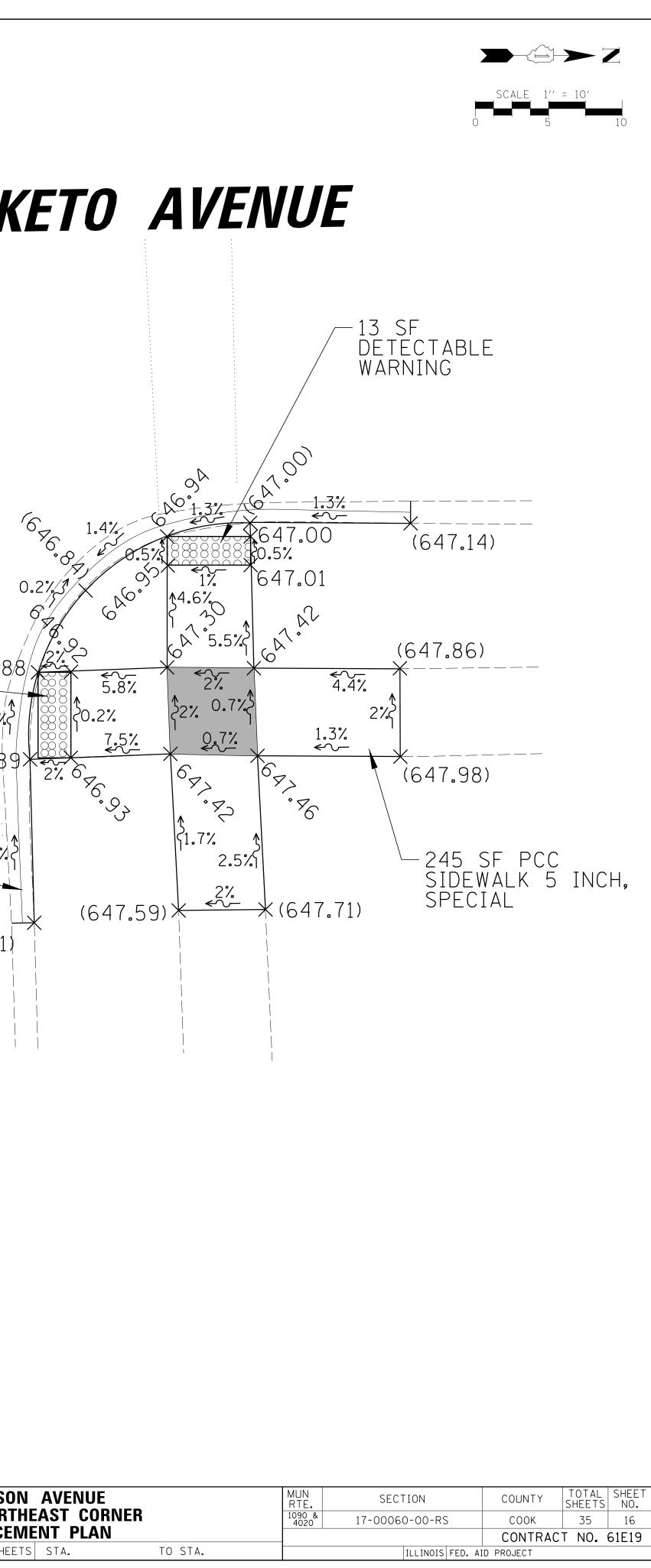
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			VILSO PROPC	
	SCALE:	SHEET	OF	SHEETS



VENUE PLAN		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1090 & 4020	17-00060-00-RS	СООК	35	15
				CONTRAC	T NO.	61E19
S STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

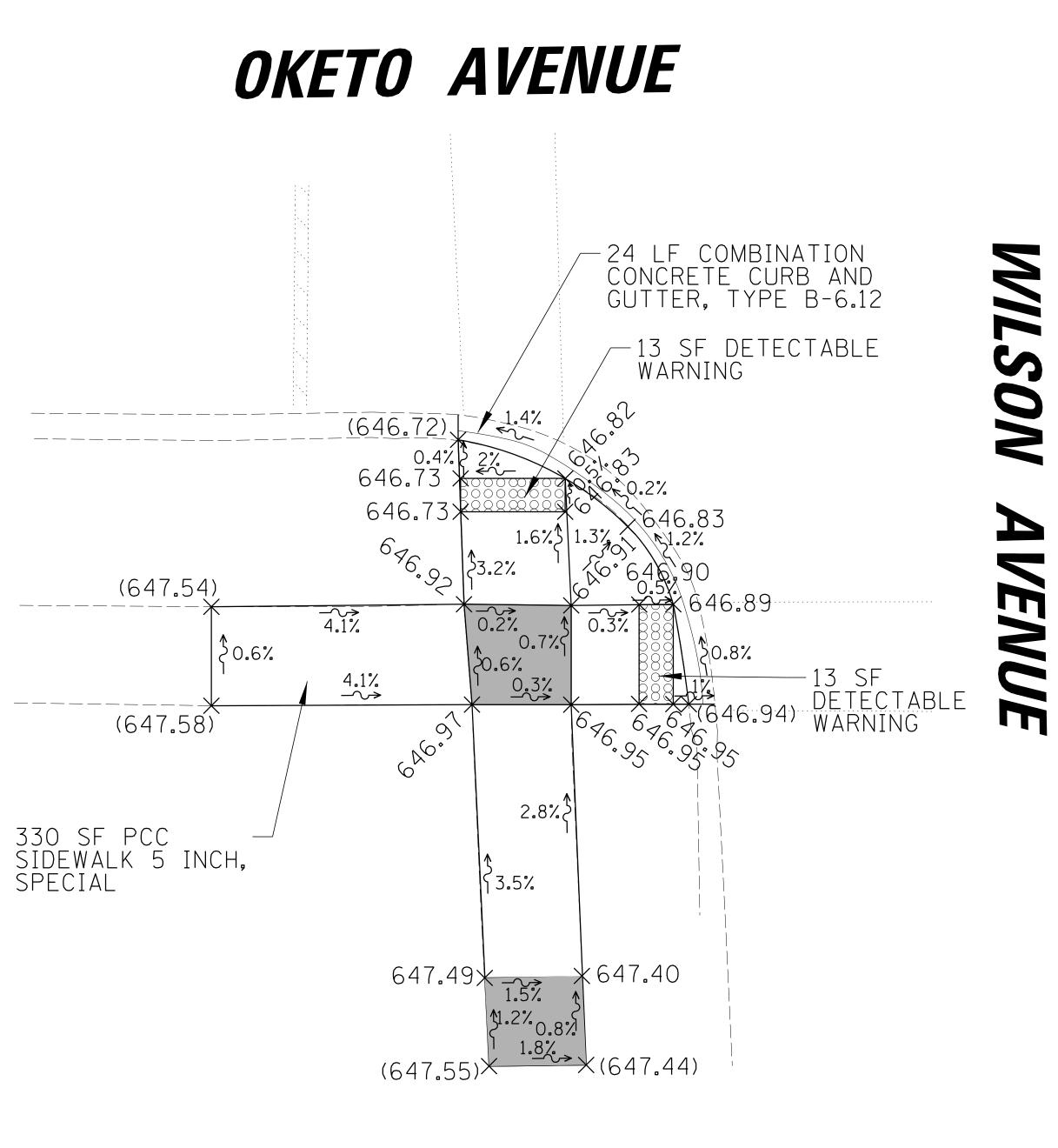


					ОК
SF ECTABLE NING	WILSON AVENUE		48 LF (CONCRE GUTTER	13 SF DETECTABLE WARNING COMBINATION TE CURB AND TYPE B-6.12	646.88 0.2% 646.89 0.2% (646.91)
		(XXX.XX) XXX.XX = OF ILLINOIS F TRANSPORTATIO	PROPOSE	NG SPOT GRAD Ed Spot grad oke Southw)E E TO AND WILSON EST AND NORTH WALK REPLACEN OF SHEET



<u>legend</u>: (XXX.XX) = EXISTING SPOT GRADE XXX.XX = PROPOSED SPOT GRADE

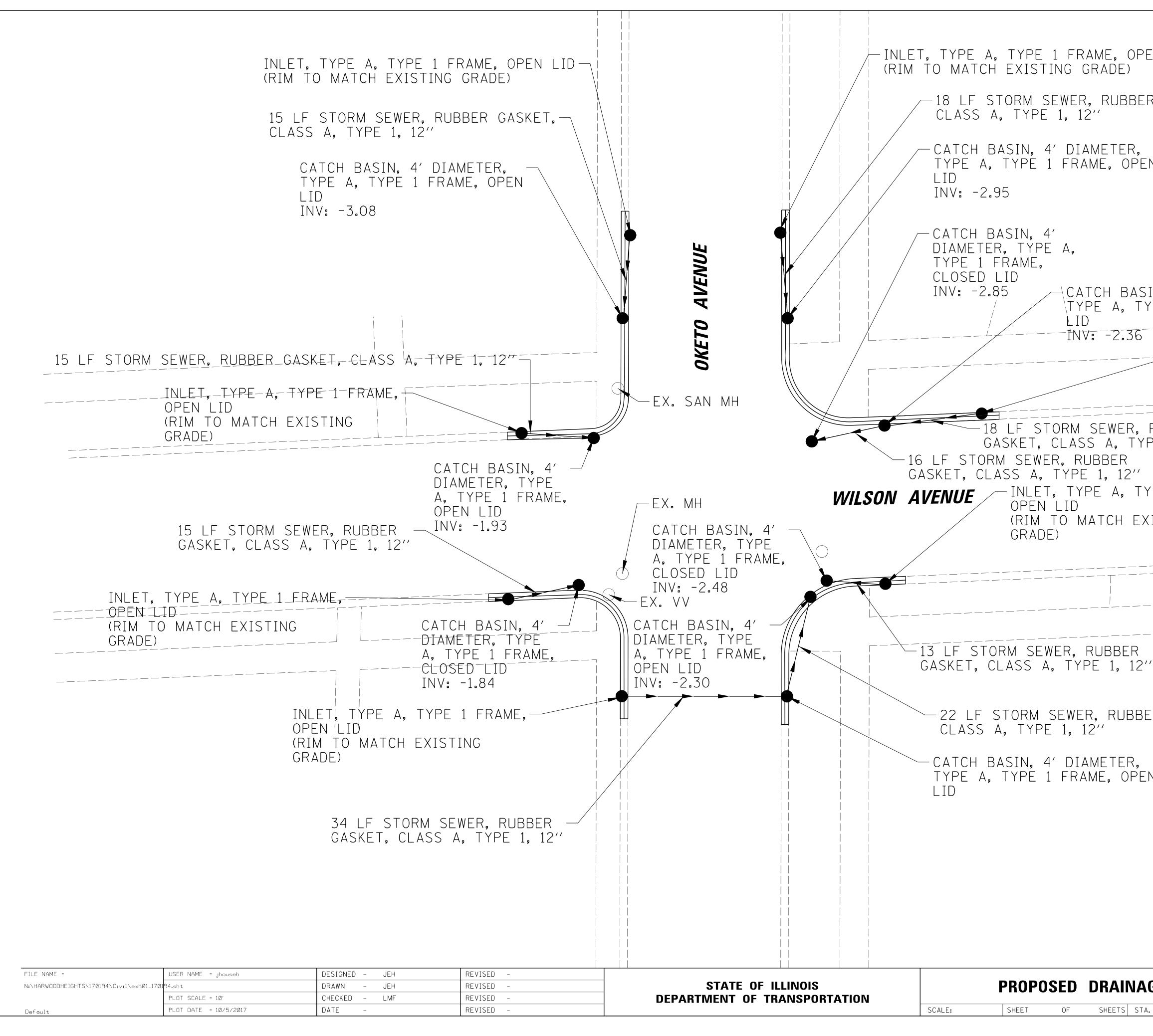
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION) WILS(EAST C REPLACE
	SCALE:	SHEET	OF	SHEETS

			Z
0	SCALE	1'' = 10' 5	10

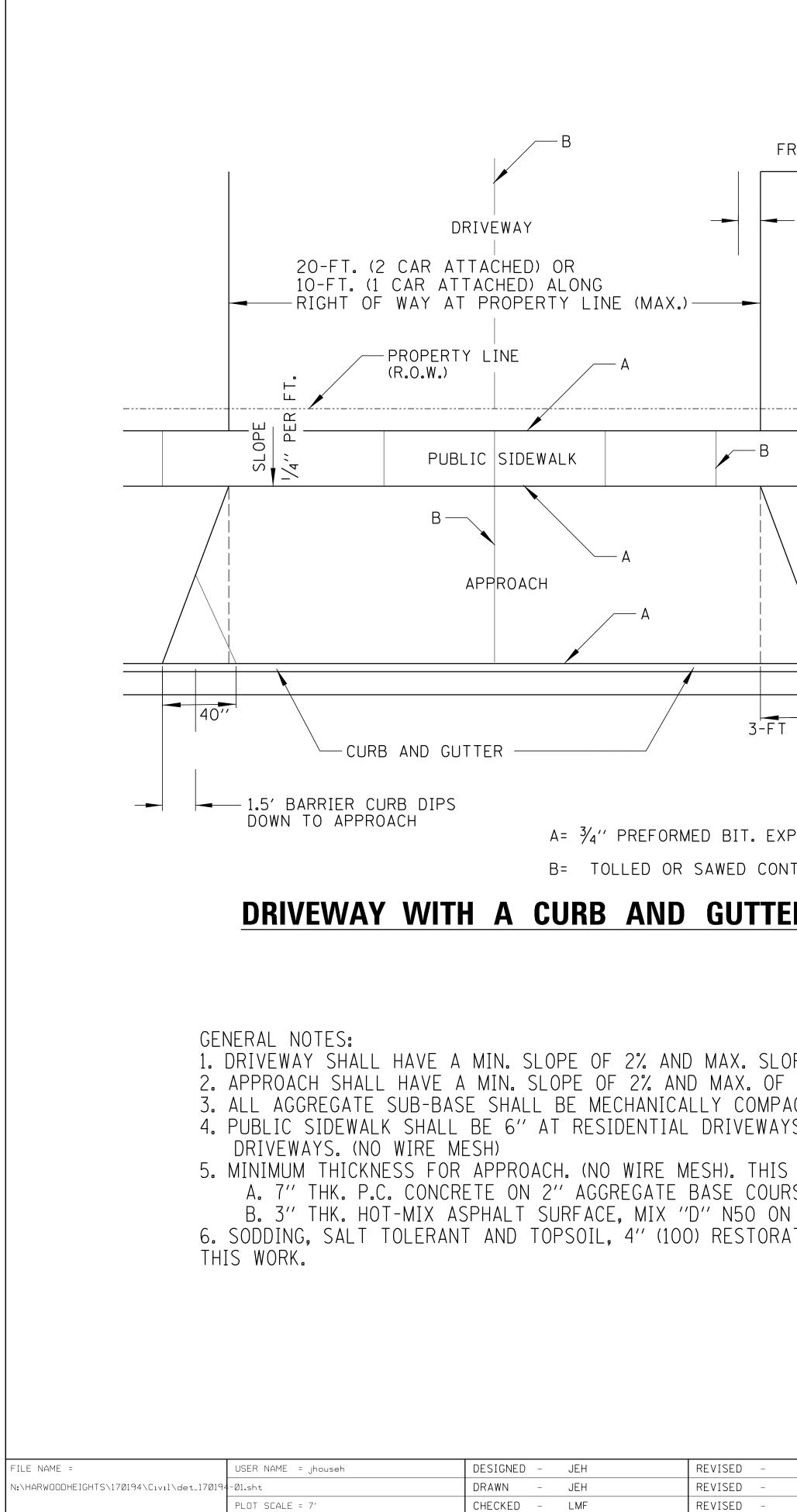
SON AVENUE		MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CORNER		1090 & 4020	17-00060-00-RS	СООК	35	17
EMENT	PLAN	CONTRACT NO. 61E1			61E19	
STA.	TO STA.		ILLINOIS FED. AID PROJECT			



OPEN LID		SCALE 1'' =	20′ N 20 Å
E) BBER GASKET,			
ER, OPEN			
BASIN, 4′ DIAMETER, , type 1 frame, ope	IN		
OPEN LID	E-A,-TYPE-1		
GRADE)	ATCH EXISTI	NG ==========	
ER, RUBBER TYPE 1, 12'' R .2''			
, TYPE 1 FRAME, Existing			
ER 12''			
JBBER GASKET,			
ER, OPEN			
	STORM SEWI D AT MINIMU		OPF
FINAL INV	VERTS TO BE NEER IN THE	E DETERMIN	
	PROPOSED S Flat top s		S TO
INAGE PLAN	MUN RTE. SECT 1090 & 17-00060	D-00-RS CO	SHEETS NU.

ILLINOIS FED. AID PROJECT

TO STA.



PLOT DATE = 10/5/2017

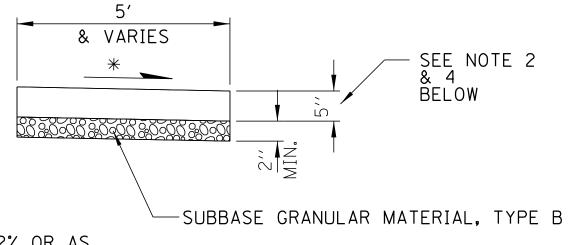
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	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET OF	SHEET
	STATE OF ILLINOIS		CONSTR	UCTION
WILL BE PA RSE TYPE B (1 6'' AGGREGA	COMMERCIAL/INDUSTRIAL			
PANSION JOINT TRACTION JOIN				PUBLIC SI AT COMME
FLARE	DRIVEWAY FLARE SHALL MEET THE BACK OF CURB ELEVATION, TYP.		SH(1. 2.	OSS SLOPE OWN ON CR ALL REQU P.C.C. SIE P.C.C. SIE WHEN FOR SIDEWALK SODDING, PAID FOR P.C.C. SID
5'-0'' (TYPICAL)			
	RAGE DOOR WOOD Cal Both Sides)			
RONT OF DWEL	LING			



E 2% OR AS ROSS SECTIONS

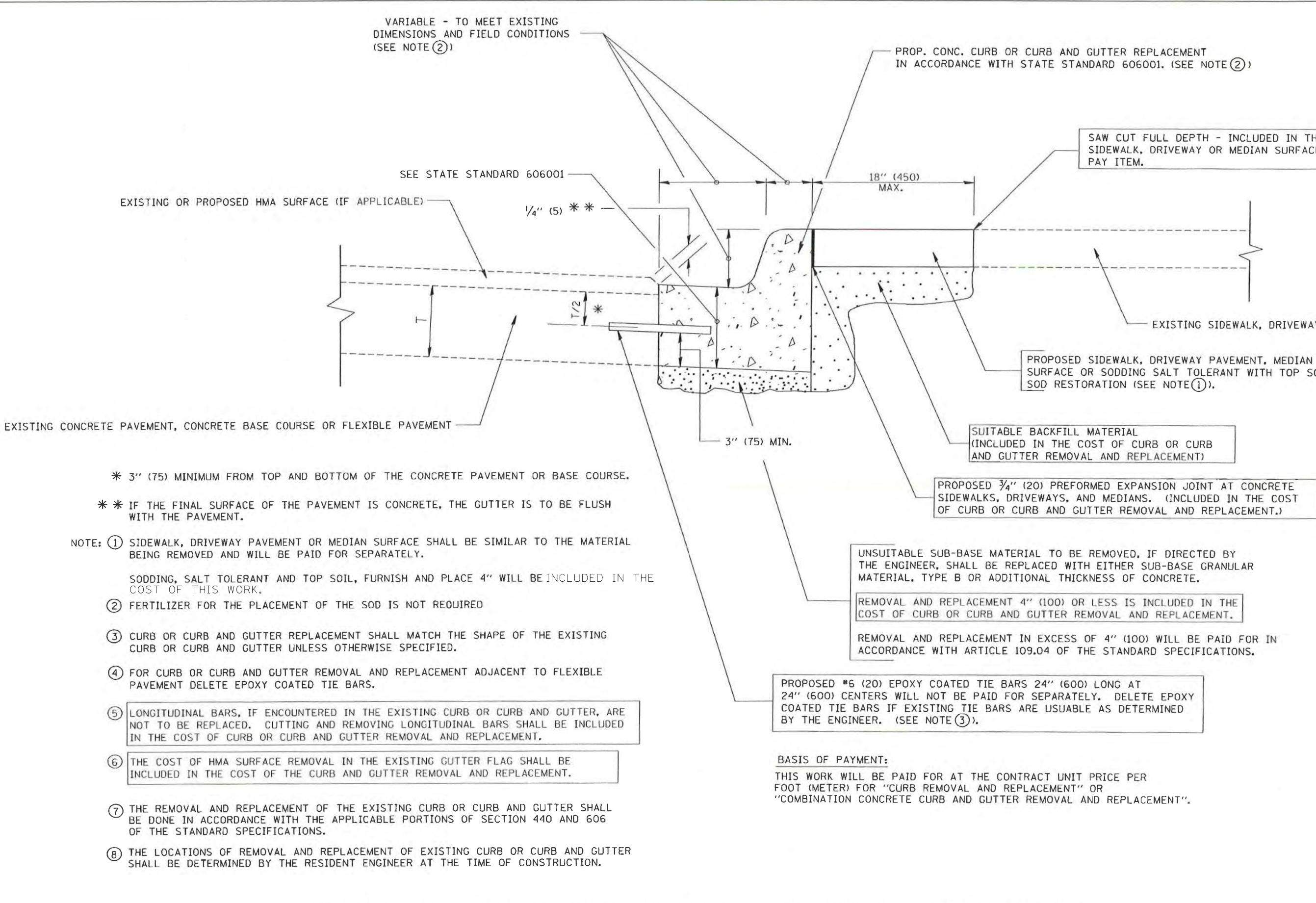
DUIRED EARTH EXCAVATION TO CONSTRUCT IDEWALK SHALL BE INCLUDED IN THE COST OF IDEWALK 5 INCH, SPECIAL. RMS ARE REMOVED FROM THE SIDEWALK EITHER THE K SHALL BE BARRICADED OR BACKFIELD WITHIN 24 HOURS.

SALT TOLERANT AND TOPSOIL, 4" (100) RESTORATION WILL NOT BE R SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF DEWALK 5 INCH, SPECIAL.

IDEWALK SHALL BE 6" AT RESIDENTIAL DRIVEWAYS AND 8" ERCIAL/INDUSTRIAL DRIVEWAYS.

P.C.C. SIDEWALK DETAIL

			MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V	N DETAILS		1090 & 4020	17-00060-00-RS	СООК	35	19
				CONTRAC	T NO.	61E19	
ГS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





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c:\pw_work\pwidot\drivakosgn\d0108315\bd	115\bd24.dgn	DRAWN -	REVISED - A. ABBAS 03-2
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - M. GOMEZ 01-2
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

5-96			
21-97	STATE OF ILLINOIS		CURB OR CURB AND (
22-01	DEPARTMENT OF TRANSPORTATION		REMOVAL AND REPLAC
-09		SCALE: NONE	SHEET NO, 1 OF 1 SHEETS S

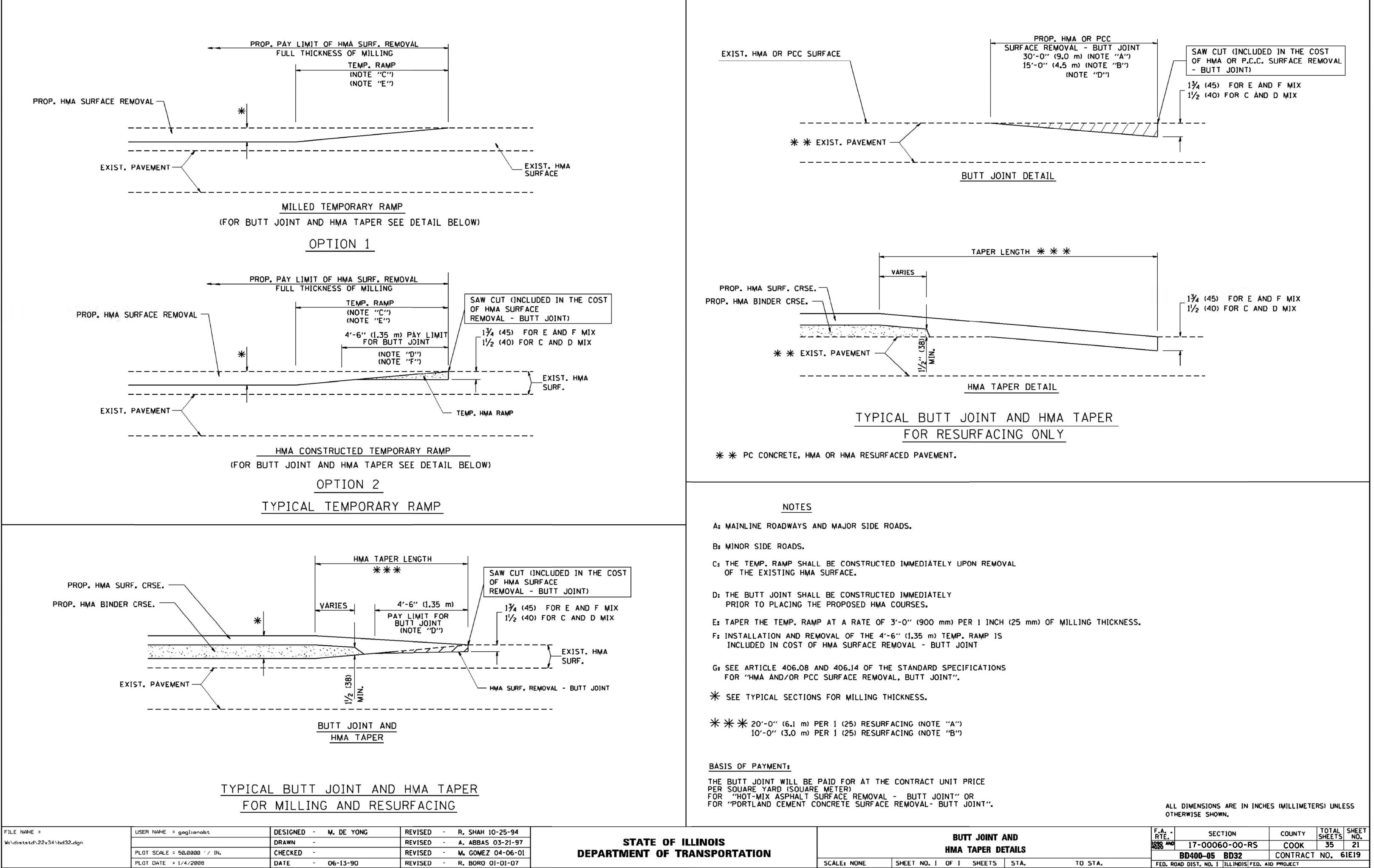
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100)

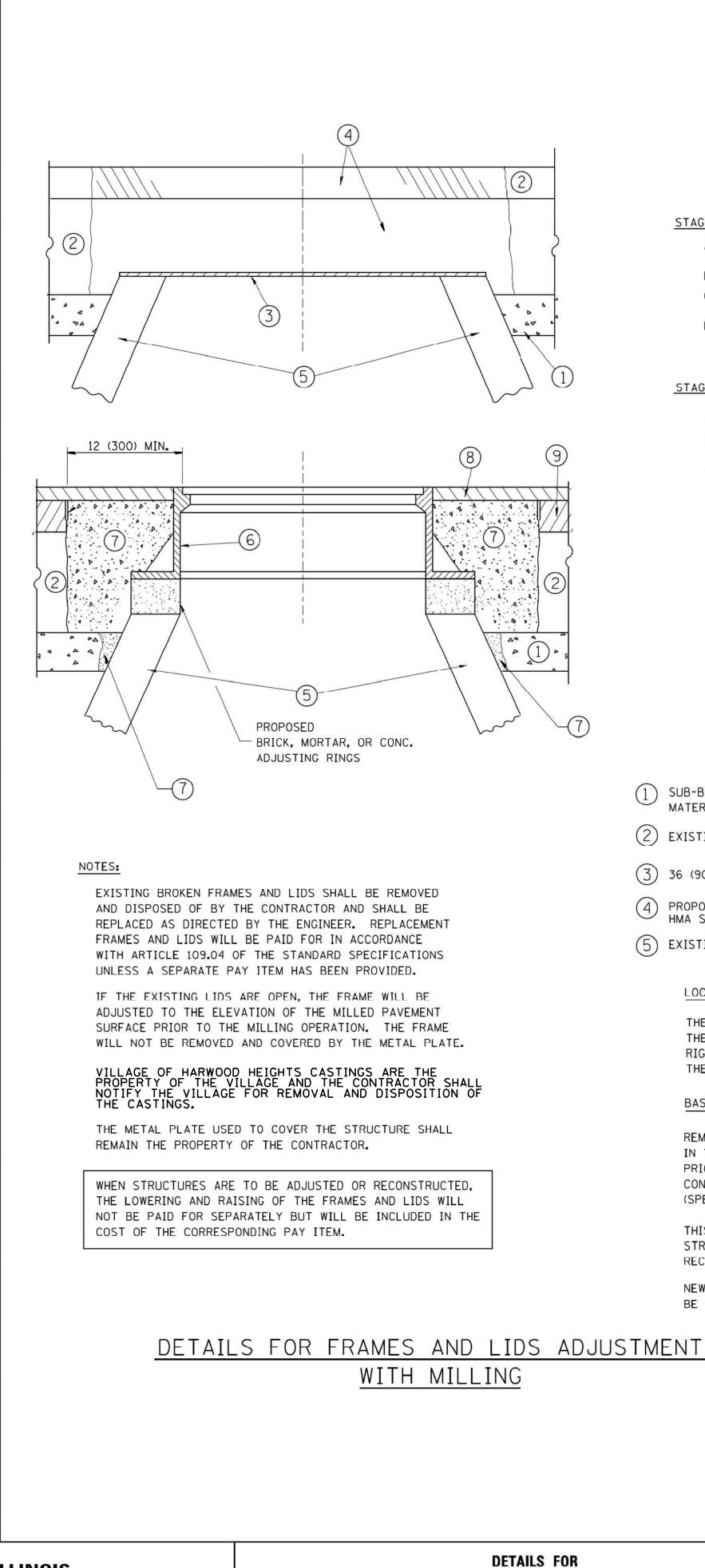
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

			The second secon	SHEETS.	NO.
GUTTER EMENT		17-00060-00-RS	СООК	35	20
		0600-06 (BD-24)	CONTRACT	NO. 6	1E19
STA.	The second se	the second s	AID PROJECT		
)	STA.	Contraction of the second se	BD600-06 (BD-24)	BD600-06 (BD-24) CONTRACT	BD600-06 (BD-24) CONTRACT NO. 6



D Alls		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1090 AND 4020	17-00060-00-RS	СООК	35	21
			BD400-05 BD32	CONTRACT	NO. C	51E19
STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

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-06-	11	

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 $1\frac{1}{2}$ (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	6 FRAME AND LID (SEE NOTES)
2	EXISTING PAVEMENT	(7) CLASS PP-1* CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	
5	EXISTING STRUCTURE	9 PROPOSED HMA BINDER COURSE

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:

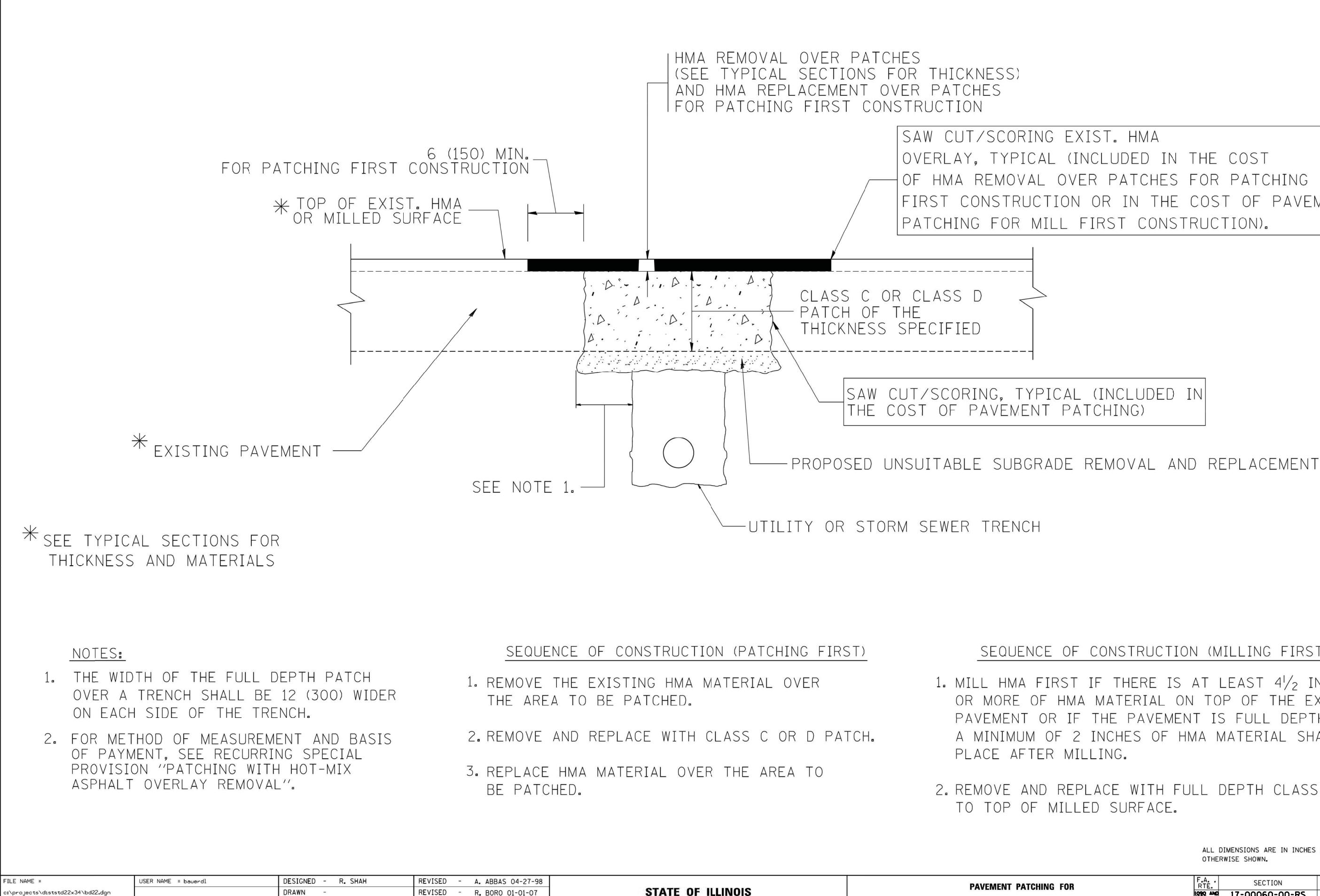
REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

			F.A RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
WITH MILLING		1090 AND 4020	17-00060)-00-F	RS .	СООК	35	22	
	ILLING			BD600-03 (BD8)		CONTRACT	NO. 6	1E19
Ά.	то	STA.	FED. RC	DAD DIST. NO. 1	ILLINOIS	FED. A	AID PROJECT		



- PLACE AFTER MILLING.
- TO TOP OF MILLED SURFACE.

REVISED	-	A. ABBAS 04-27-98	
REVISED	-	R. BORO 01-01-07	
REVISED	-	R. BORO 09-04-07	
REVISED	-	K. ENG 10-27-08	

CHECKED

DATE - 10-25-94

PLOT SCALE = 50.000 ' / IN.

PLOT DATE = 10/27/2008

STATE OF ILLINOIS					
DEPARTMENT	OF	TRANSPORTATION			

OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

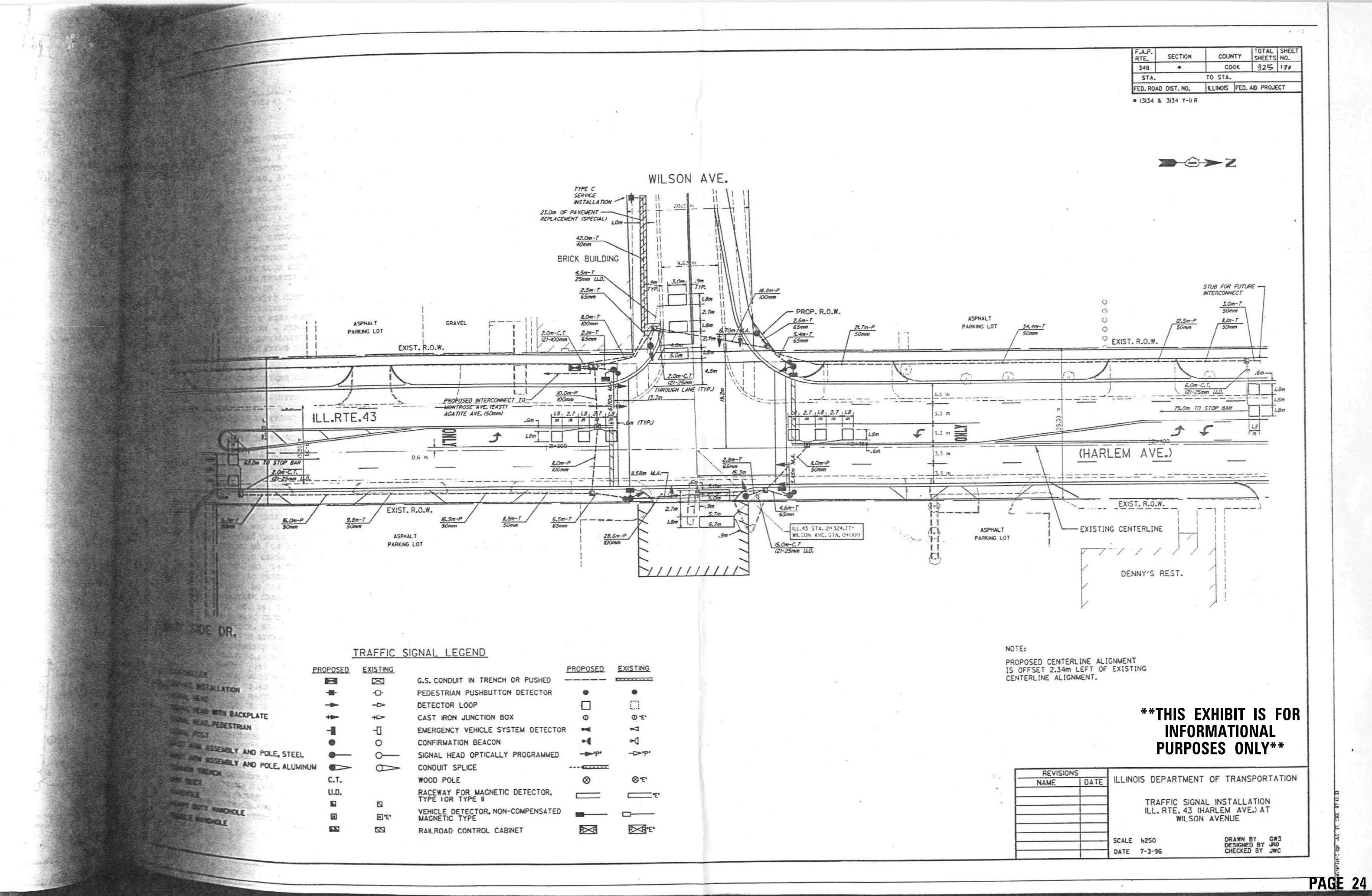
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ inches OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES

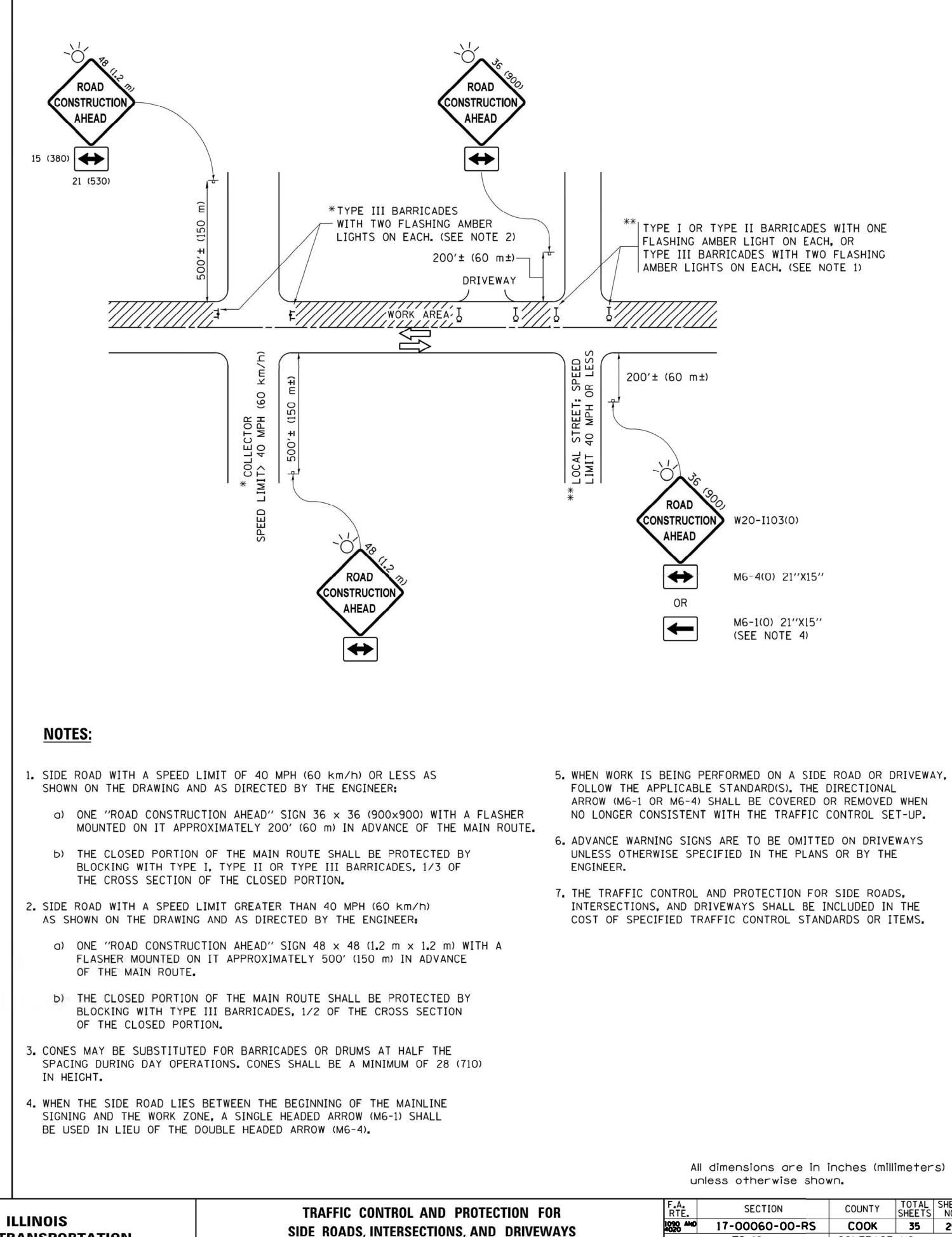
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

DR	F.A. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
NT	17-00060-00-RS		СООК	35	23
	BD400-04 (BD-22) CONTRACT NO. 61E19				
TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



	PROPOSED	EXISTING
NCH OR PUSHED		
TON DETECTOR	•	٠
		\square
BOX	Ø	0 °E*
SYSTEM DETECTO	R 🛋	2
N	-1	~
LLY PROGRAMMED	->*P*	->•P*
	\otimes	0°E
ETIC DETECTOR,		۳.
NON-COMPENSATED		
CABINET	\boxtimes	₹.

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	Documents/IDOT Offices/District 1/Projects/Dis		REVISED -T. RA
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED - A.
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED – A.

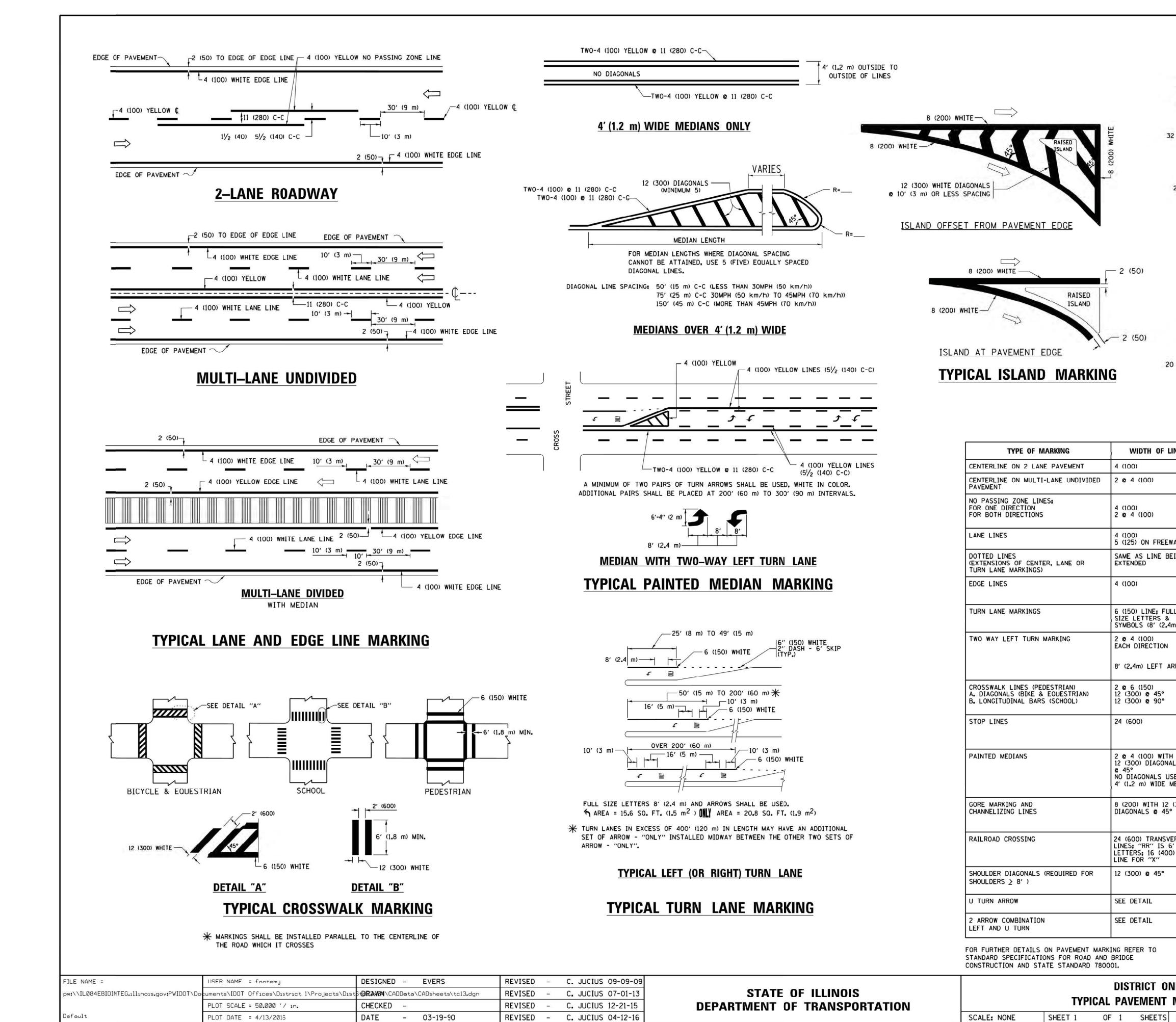


	Α.	HOUSEH	10-15-96	
	RAN	MACHER	01-06-00	
•	S	CHUETZE	07-01-13 09-15-16	
•	S	CHUETZE	09-15-16	

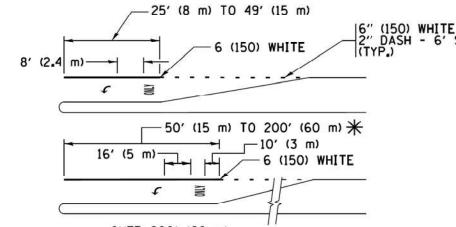
- ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

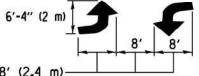
All dimensions are in inches (millimeters)

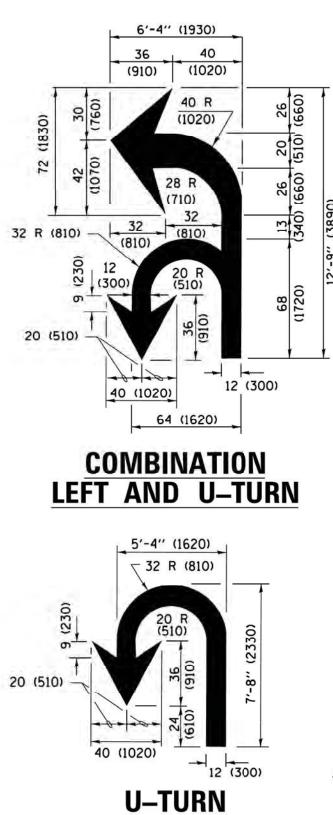
PROTECTION FOR	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IS, AND DRIVEWAYS	1090 AND 4020	17-00060-00-RS	СООК	35	25
IS, AND DRIVEWATS		TC-10	CONTRACT	NO.	61E19
S STA. TO STA.	ILLINOIS FED. AID PROJECT				

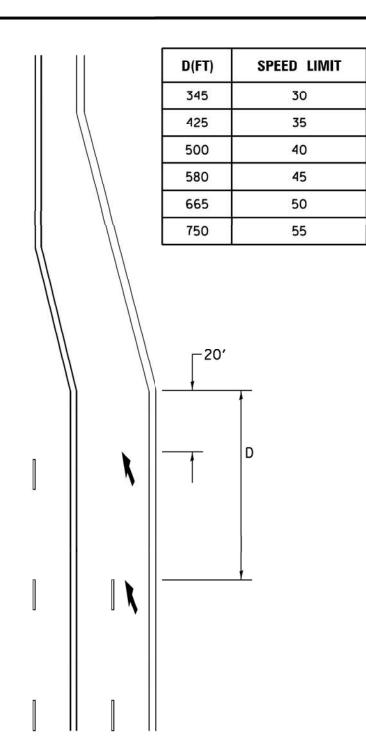


		STANDARD SPECIFICAT			Ε	
C. JUCIUS 09-09-09				פוח	TRICT OI	
C. JUCIUS 07-01-13	STATE OF ILLINOIS		TVD			
C. JUCIUS 12-21-15	DEPARTMENT OF TRANSPORTATION		IYP	ICAL PAV	/EIVIEIN I	N
C. JUCIUS 04-12-16		SCALE: NONE	SHEET 1	OF 1	SHEETS	









LANE REDUCTION TRANSITION

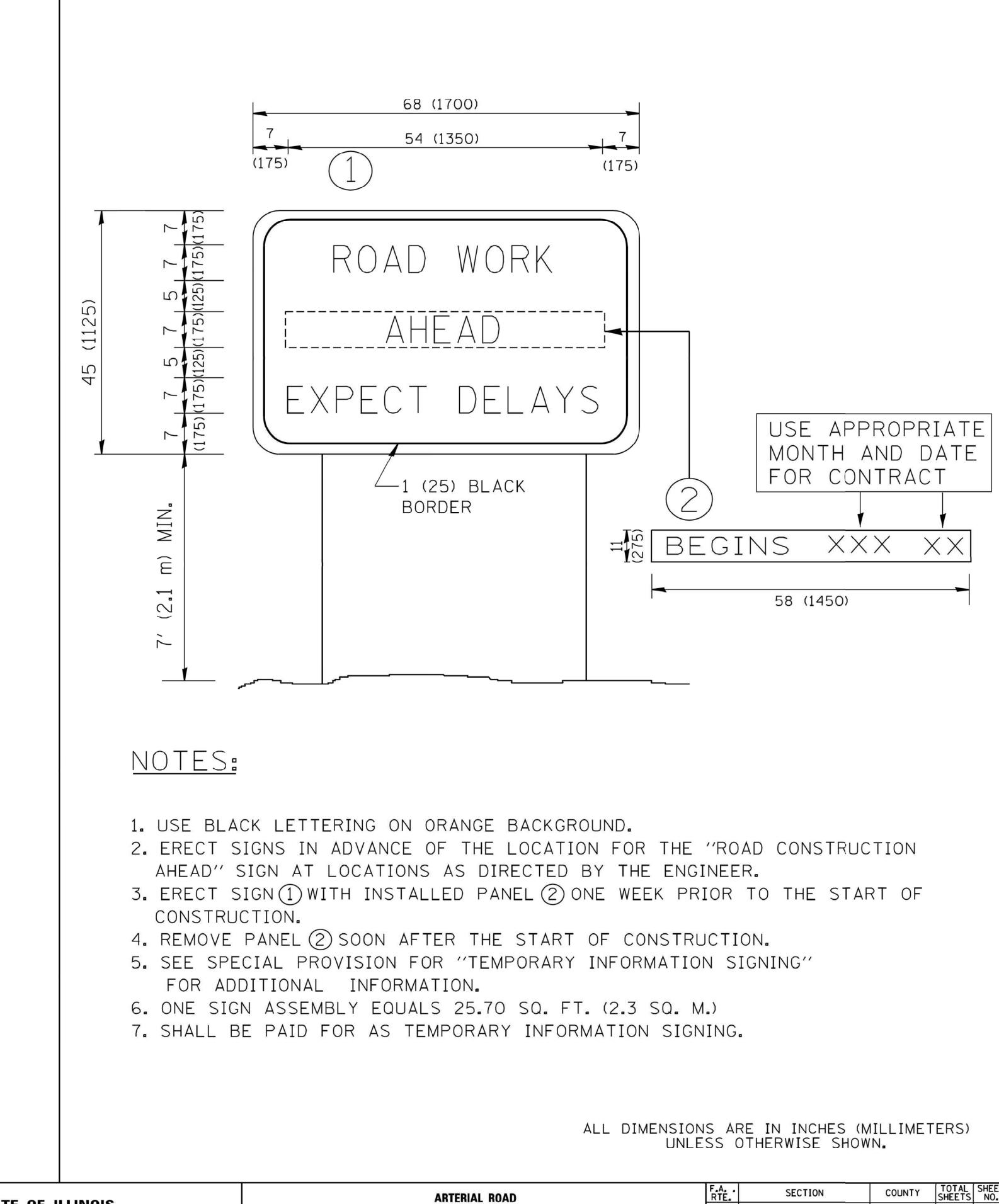
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	51/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
WAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
EING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RICHT	OUTLINE MEDIANS IN YELLOW
ILL 1m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5 ¹ / ₂ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN
ARROW		WHITE	MARKING DETAIL
	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.
	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
H ALS SED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
(300)	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
/ERSE 6′(1_8 m) 0)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
	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))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

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

NE		F_A RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MARKINGS		1090 AND 4020	17-00060-00-RS	СООК	35	26
			TC-13	CONTRACT	NO.	61E19
STA.	TO STA.		ILLINOIS FED. AID PROJECT			

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	PLOT DATE = 1/4/2008	DATE -	REVISED	



R.	MIRS	09	9-15-97	
R.	MIRS	12	-11-97	
RA	имасн	ER	02-02-9	9
С.	JUCIL	JS	01-31-07	

OAD N SIGN		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		1090 AND 4020	17-00060-00-RS	СООК	35	27	
			TC-22	CONTRACT	NO.	61E19	
	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET	\boxtimes	
COMMUNICATION CABINET	ECC	СС
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	ЕММС	ММС
UNINTERRUPTABLE POWER SUPPLY	4	¥
SERVICE INSTALLATION -(P) POLE MOUNTED	- <u></u> -P	- ■ -
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	■ ^G ■ ^{GM}
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE	0	•
ALUMINUM MAST ARM ASSEMBLY AND POLE	\bigcirc	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o-X−	•*
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	• • BM
WOOD POLE	\otimes	•
GUY WIRE	\succ	\succ
SIGNAL HEAD	-[>	-
SIGNAL HEAD WITH BACKPLATE	+>	+►
SIGNAL HEAD OPTICALLY PROGRAMMED		
FLASHER INSTALLATION -(FS) SOLAR POWERED		← F ← FS F FS
PEDESTRIAN SIGNAL HEAD	-[]	-
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON		© © APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA		V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR	\triangleleft	-
CONFIMATION BEACON	0(]	-1
WIRELESS INTERCONNECT	0+++++	●· · -
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

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TRAFFIC SIGNAL LEGEND

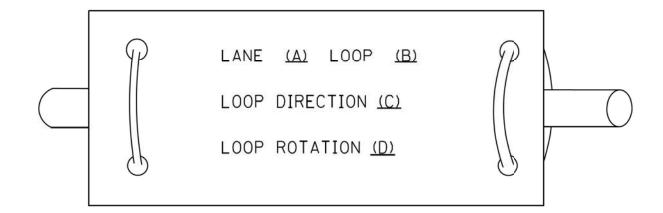
	(NOT TO SCALE)				
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		$ \begin{array}{cccc} R & R \\ Y & Y \\ G & G \\ \bullet Y & \bullet Y \\ \bullet G & \bullet G \\ \end{array} $
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H H	E ®		€ € P	
DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		
JUNCTION BOX		0	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	$\begin{array}{c} \mathbb{C} \\ $	$ \begin{array}{c cccc} R & R & R \\ Y & Y & Y \\ G & G & G \\ \hline $
RAILROAD CANTILEVER MAST ARM	X OX XX	Xex X			$\begin{array}{c} G \\ G \\ \hline G \\ \hline \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\$
RAILROAD FLASHING SIGNAL	Xox	X•X		P RB	
RAILROAD CROSSING GATE	X0X>	X•≯	PEDESTRIAN SIGNAL HEAD		₩
RAILROAD CROSSBUCK	₹	¥	AT RAILROAD INTERSECTIONS		₩ *
RAILROAD CONTROLLER CABINET			PEDESTRIAN SIGNAL HEAD	C C D	
UNDERGROUND CONDUIT (UC). GALVANIZED STEEL			WITH COUNTDOWN TIMER		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	5	5
INTERSECTION ITEM	Ι	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED		
REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
ABANDON ITEM		А	NO. 14 1/C		<u> </u>
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE		— <u>c</u> —
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE COPPER INTERCONNECT CABLE,		
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	<u> 6#18 </u>
DETECTOR LOOP, TYPE I		\Box \bigcirc	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F	12F	
PREFORMED DETECTOR LOOP		P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	24F	24F
SAMPLING (SYSTEM) DETECTOR		s s		36F	
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS (IS)	IS (IS)	GROUND ROD	C M P S	C M P S
QUEUE AND SAMPLING (SYSTEM) DETECTOR	iasi (áŝ)	os os	-(C) CONTROLLER -(M) MAST ARM -(P) POST	≟ ^C ≟ ^M ≟ ^P ≟ ^S	^{≟C} ^{≟M} ^{≟P} ^{≟S}
WIRELESS DETECTOR SENSOR		()	-(S) SERVICE		
WIRELESS ACCESS POINT					

ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
IAL DESIGN DETAILS			1090 AND 4020	17-00060-00-F	RS COOK	35	28
				TS-05	CONTRAC	T NO.	61E19
rs	STA.	TO STA.		ILLINOIS F	ED. AID PROJECT		

LOOP DETECTOR NOTES

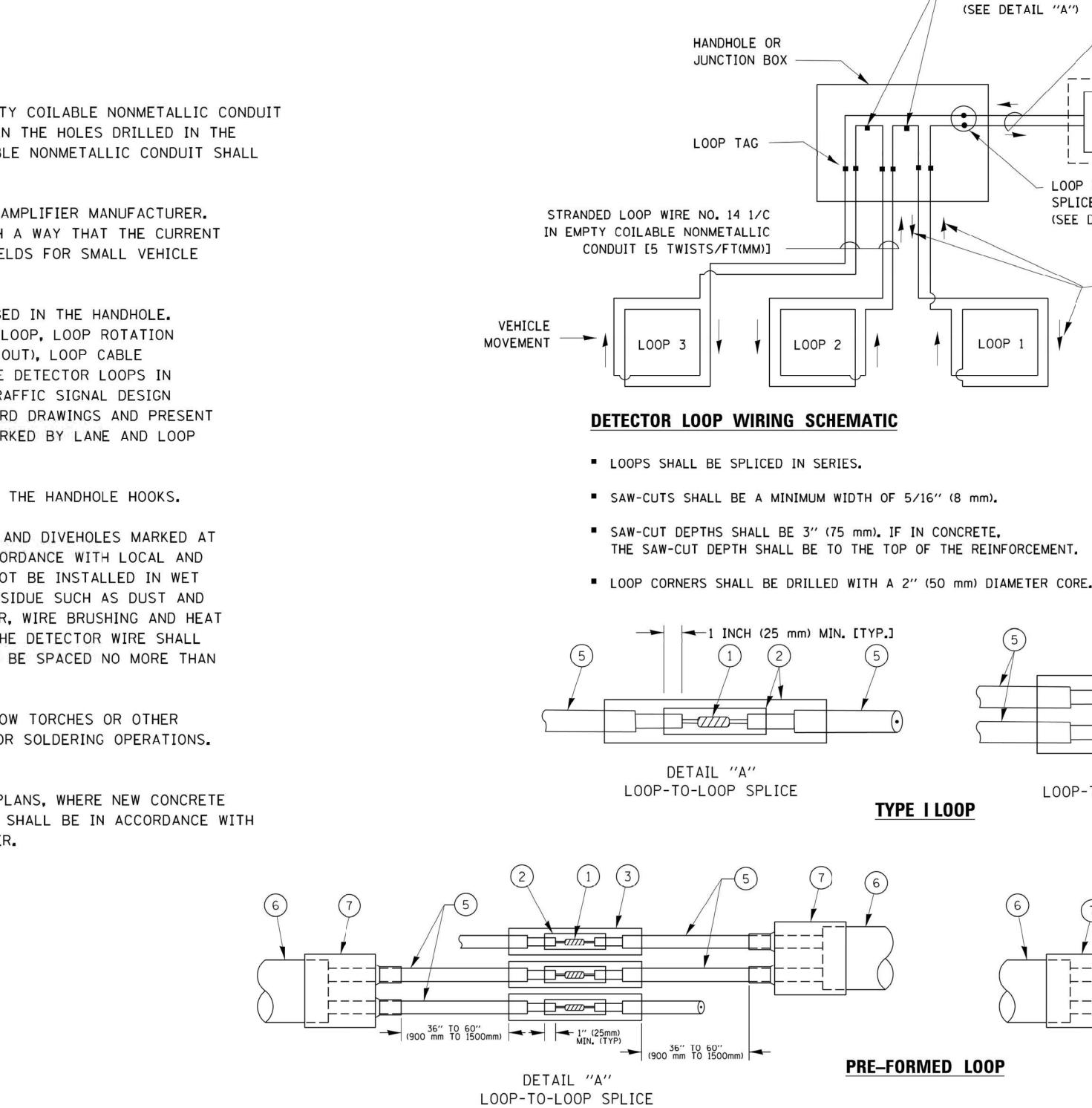
- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 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.

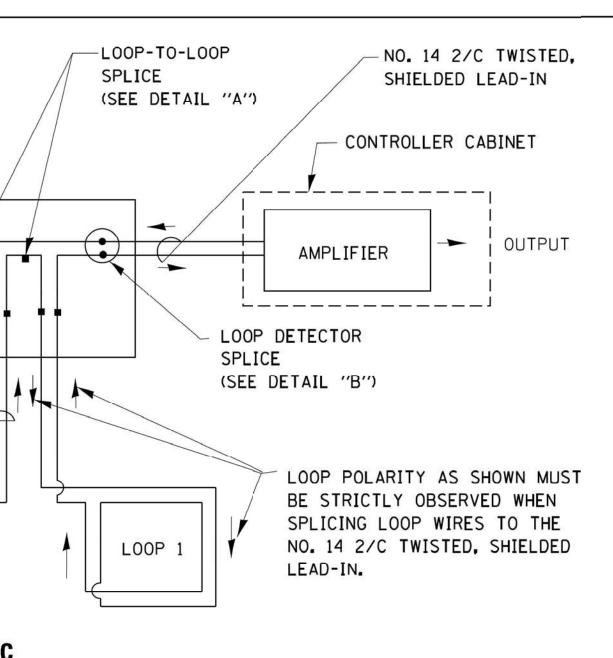
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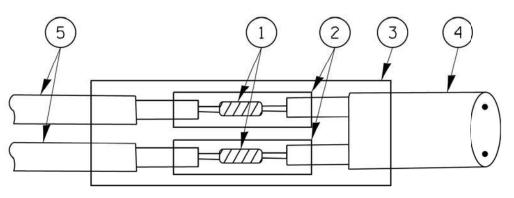


LOOP DETECTOR SPLICE

) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUR OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

DAG 1-1-14				DIS	TRICT O
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		STANDARD T		
		SCALE: NONE	SHEET NO. 2 C	OF 7	SHEETS

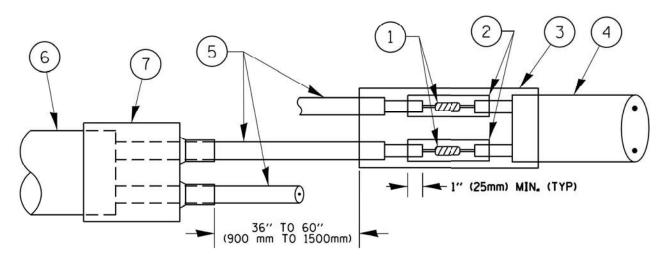




DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

(6)

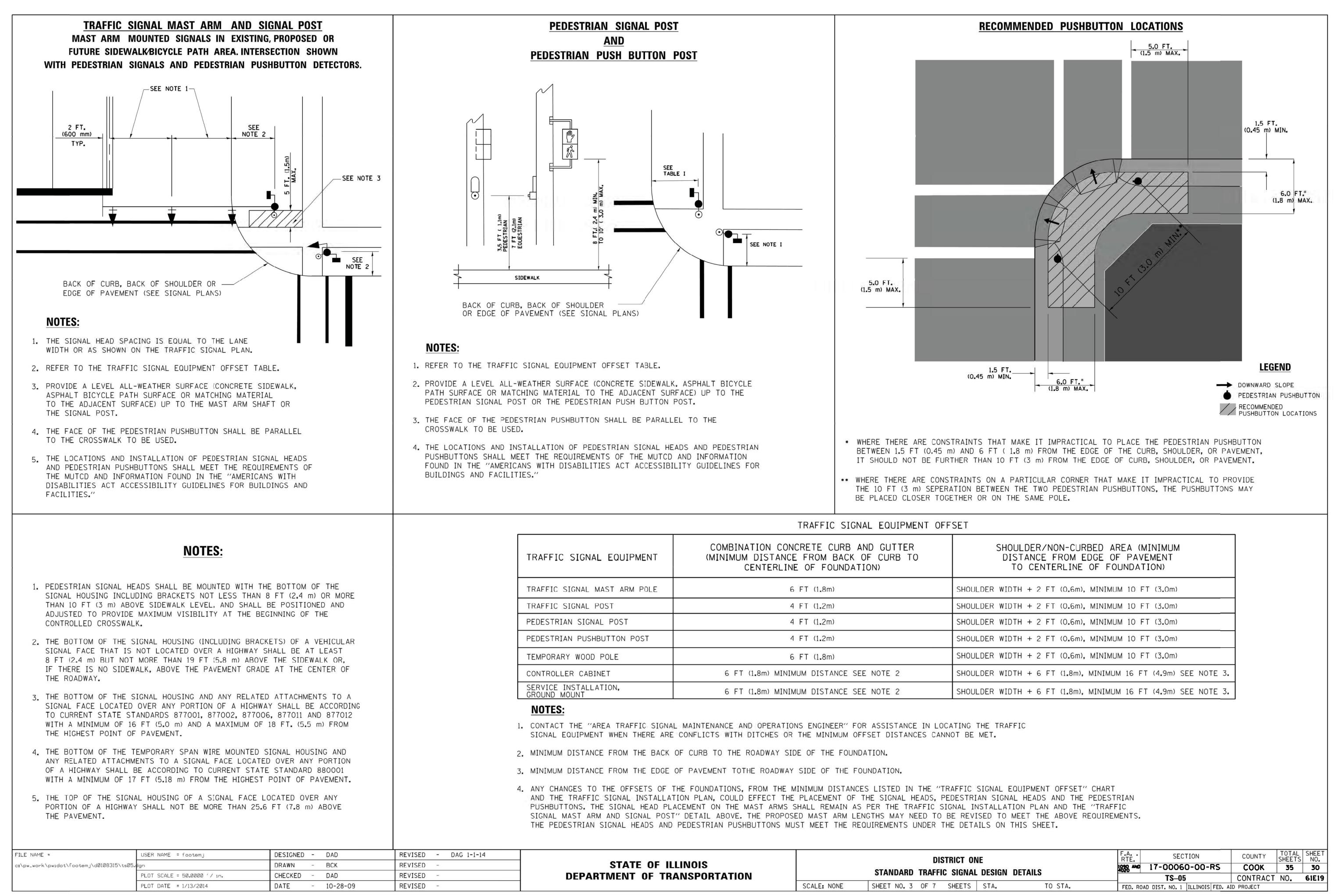


PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

	5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	~
R GRADE.	7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

ONE IAL DESIGN DETAILS			F.A RTE.	F.A SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
			1090 AND 4020	17-00060	0-00-RS	СООК	35	29
				TS05		CONTRACT	NO.	61E19
S	STA.	TO STA.	FED. ROA	D DIST. NO. 1	ILLINOIS FED. AI	D PROJECT		

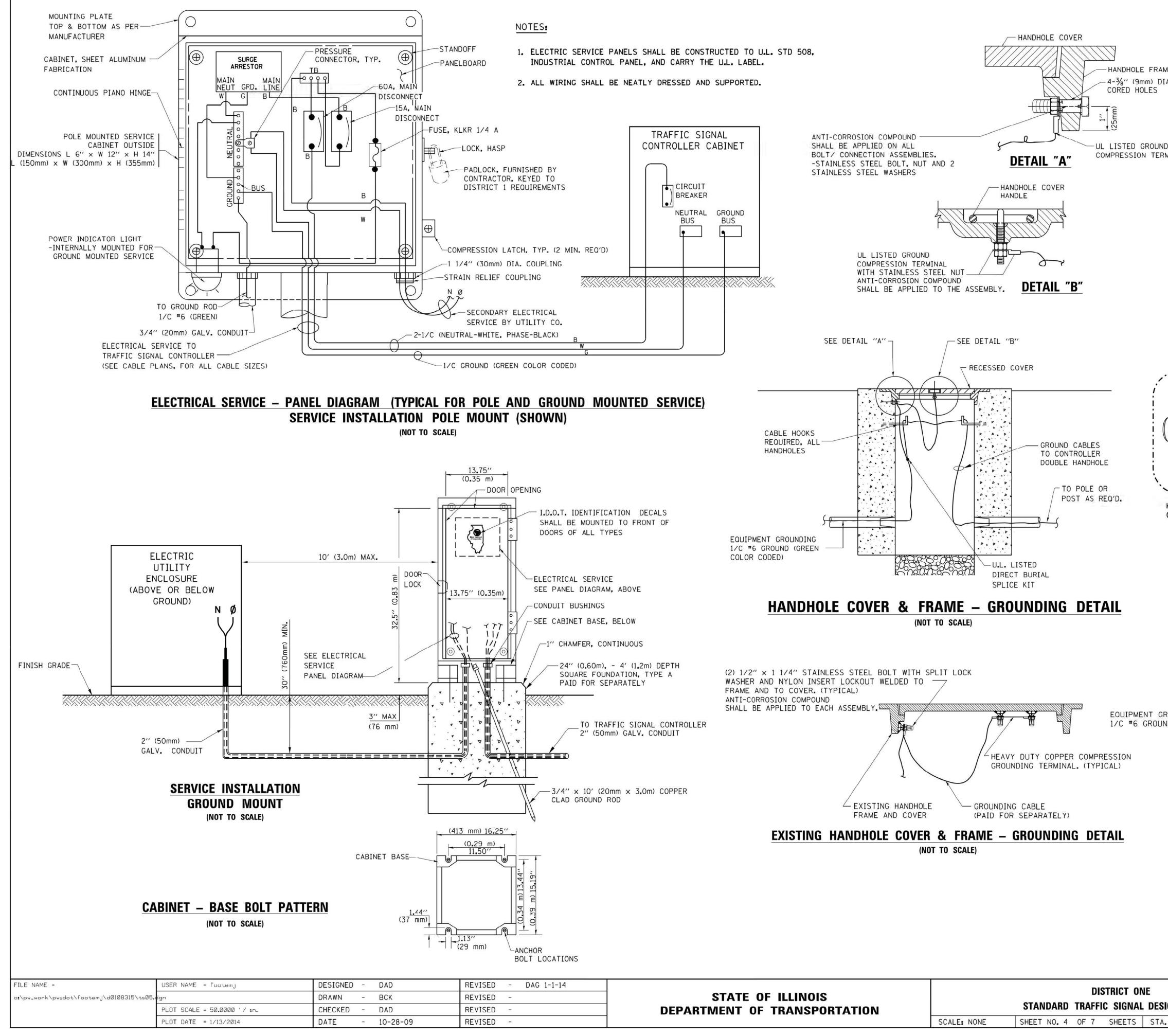


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		(77.1977) (71)
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULD
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULD
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULD
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULD
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULD
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULD
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULD

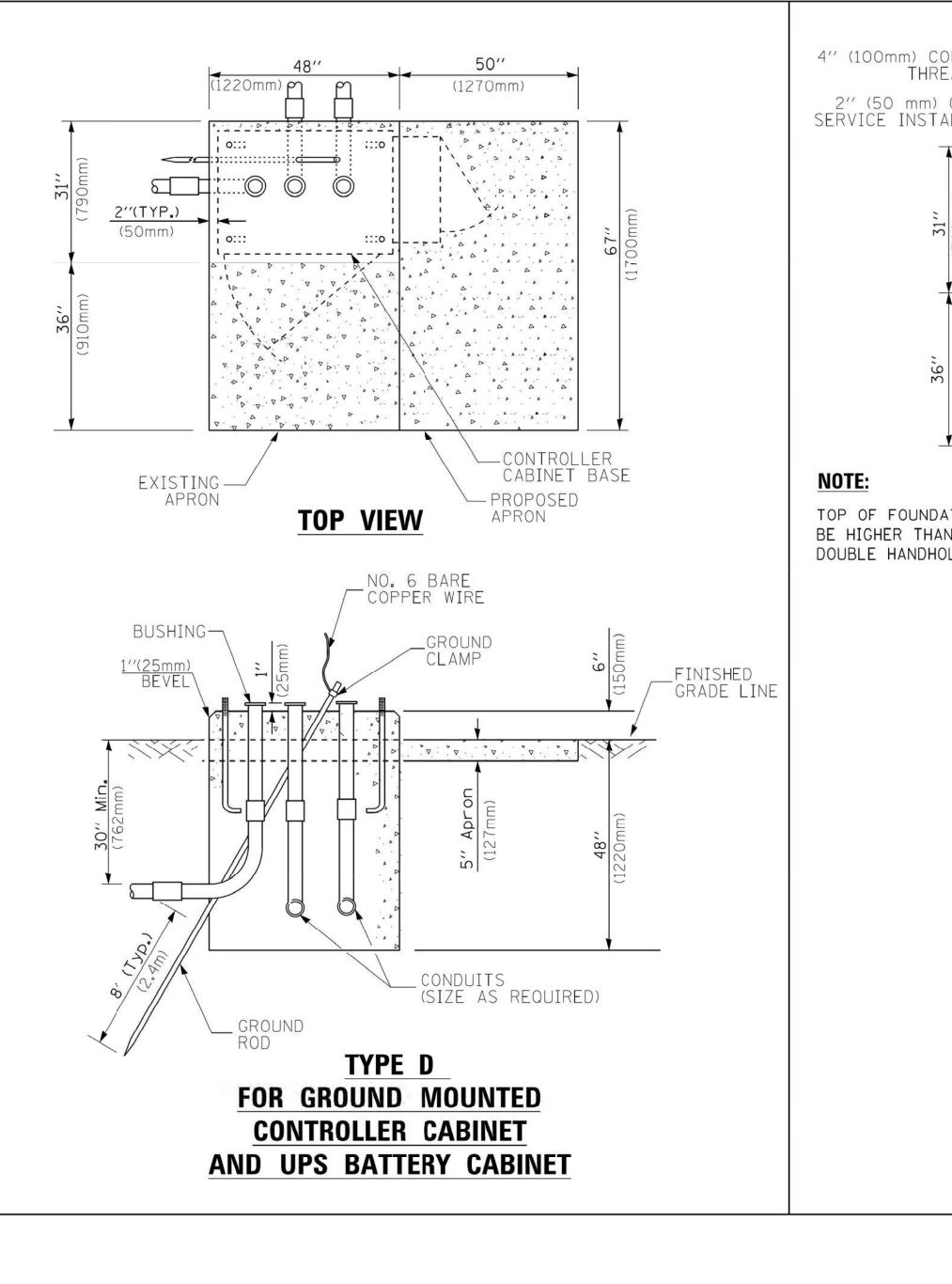
5 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRIC Standard traffic sig					
		SCALE: NONE	SHEET NO. 3	OF 7	SHEETS		
		SCALE: NONE	SHEET NO. 3	OF 7	SHEETS		



DAG 1-1-14				DISTR
	STATE OF ILLINOIS			
	DEPARTMENT OF TRANSPORTATION		STANDARD	TRAFFIC
		SCALE: NONE	SHEET NO. 4	OF 7 S

NOTES: GROUNDING SYSTEM

STA.	1997-94	D STA.	FED. ROA	TS-05	CONTRACT	N0.	61E19
DESIGN DETAIL	LS		090 AND 1020	17-00060-00-RS	COOK	35	31
E			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Contract of Contra	TO SCA				
MAS	ST	ARM POLE / F	POST-	\\ GROUNDING DETA	IL		
			1	3/4" × 10' CLAD GROUN	(20mm × 3.0 ID ROD	m) COPPE	R
			1	V //V			
× I							
GROUND (GREEN C	COLO			OR U.L. APPRO (TYPICAL FOR			
UR APPRO	νcυ			HEAVY DUTY G EXOTHERMIC W	ELD,		
GROUND LI (BURNDY T OR APPRO	TYPE			GROUNDING EI			
	5 (UT SLACK SHAL	LL DE P	NUVIDED DETWEEN FRAME	AND CUVER.		
	6 . 5′ 13′	(2.Om) SLACK SHALL (4.Om) OF SLACK SH	- BE PR ALL BE	D OVER HOOKS IN THE HA OVIDED IN SINGLE HANDHO PROVIDED IN DOUBLE HAN ROVIDED BETWEEN FRAME	OLES IDHOLES.		
	ALL	CLAMPS SHALL BE		OR COPPER, UL APPROVE			
	PE '			(BURNDY TYPE GRC O			
HEAVY-DUTY		MPRESSION TERMINA	<i></i>				
		V			$\overline{)}$		į
	0/	Θ					
Í							
·				· · · · · · · · · · · · · · · · · · ·			
				VIDE A GROUND CABLE WIT ER AND HANDHOLE FRAME.	H CONNECTOR	S	
		ALL EQUIPMENT GROU IN THE CONTROLLER		ONDUCTORS SHALL TERMIN	ATE AT THE	GROUND	BUS
			NAL SYS	TEM SHALL THE NEUTRAL A	ena n s ensen en e rste nsdene		
3	2.			D THE GROUND CONDUCTOR			
		SUCH AS SUB-SURFAC ENGINEER SHALL BE	E CONDI	TIONS OR INSTALLATION F O OR CONTACT THE BUREAL ANSPORTATION DISTRICT O	PROBLEMS, TH	E RESIDE	~~
ROUND TERMINAL		CONTROLLER CABINET	FOUNDA	POST FOUNDATIONS, POLE TION AND ELECTRICAL SEP PLAN, IF THERE ARE AN	RVICE INSTAL	LATION	c
		HANDHOLE, POST, MA	ST ARM.	SHALL BE BONDED TO MET CONTROLLER, ETC.). GROU 3.0m) LONG, COPPER CLAE	ND ROD SHAL	L BE	
n) DIA ES		RACEWAYS. THE GROU	NDING C	ABLE SHALL BE INSTALLED S SHOWN ON THE CABLE PL)		
FRAME				L CONSIST OF AN INSULA		OR	
		different different					



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

VERTICAL CABLE LENGTH
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD F
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)
PEDESTRIAN PUSH BUTTON
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP
SERVICE INSTALLATION POLE MOUNT TO GROUND
SERVICE INSTALLATION GROUND MOUNT
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLE

VERTICAL CA

CABLE SLACK

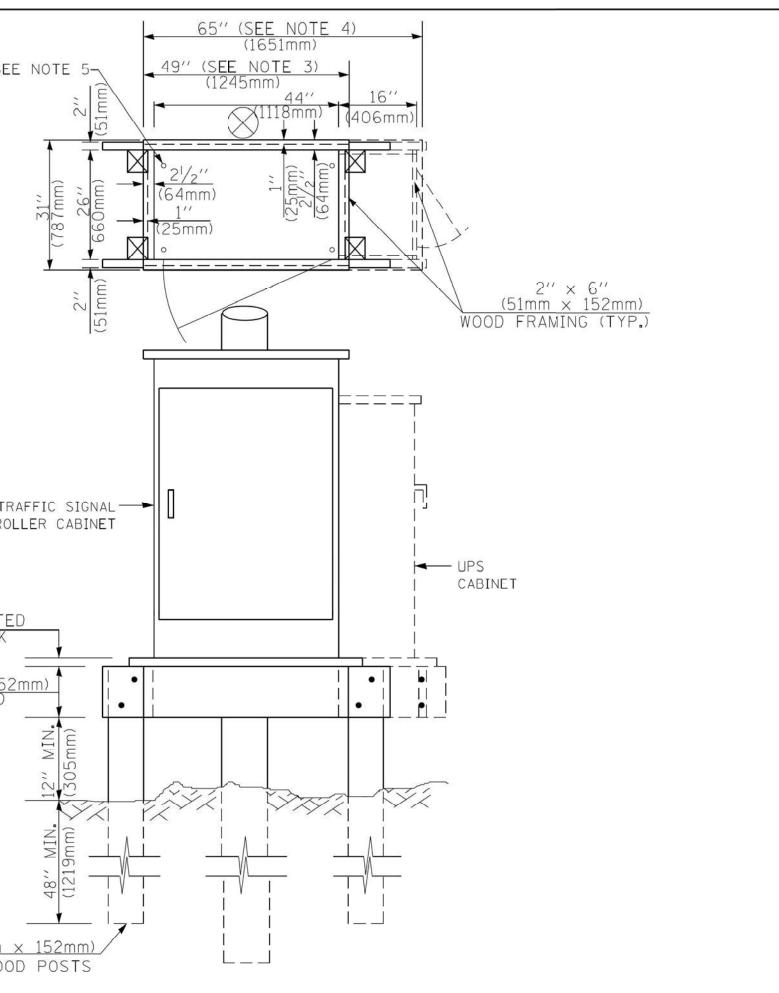
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c:\pw_work\pw1dot\footemj\d0108315\ts05.	dgn	DRAWN	-	ВСК	REVISED	-	
	PLOT SCALE = 50.0000 ' / in.	CHECKED	1	DAD	REVISED		
	PLOT DATE = 1/13/2014	DATE	-	10-28-09	REVISED		

	DEPARTMENT OF TI	NANSPUKIATIUN	SCALE: NONE	SHEET NO. 5 OF 7 SHEETS
AG 1-1-14	STATE OF I			DISTRICT ON Standard traffic signal
<u>BLE LENGTH</u>	FEET METER 20.0+L 6.0+L 13.0 4.0 6.0 2.0 13.5 4.1 13.5 4.1 6.0 2.0 ICE-GROUND MOUNT) 3.0 1.0	FOUNDATION TYPE A - Signal Post TYPE C - CONTROLLER W/ L TYPE D - CONTROLLER SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SOUARE DEPTH OF FOU	4'-0'' (1.2m) 4'-0'' (1.2m)	Greater than or 56' (16.8 m) and le 65' (19.8 m
ATION SHALL N TOP OF DLE GROUNDI BUSHI <u>1" (250</u> BEV UW "OP UW "OP UW "OP UW "OP UW "OP UW "OP UW "OP UW "OP UNDI BUSHI SUPER	IUP VIEW	- CONTROLLER CABINET BASE OUND MP (u) (u) (u) (u) (u) (u) (u) (u) (u) (u		<u>34</u> " (19mm) TREATE PHYWOOD DECK 2" × 6" (51mm x 15) TREATED WOOD TREATED WOOD NOTES: 1. BASED ON CONTROLLER CABINE ADJUST PLATFORM SIZE TO FIT 2. BASED ON UNINTERRUPTIBLE PC ADJUST PLATFORM SIZE TO FIT 3. PLATFORM SIZE FOR CONTROLLI 4. PLATFORM SIZE FOR CONTROLLI 5. DRILLED HOLES THROUGH THE F THE CONTROLLER CABINET TO 6. FASTEN ALL SUPPORT WOOD FR
(915mm) (790mm) 15.5" (395mm) (395mm) 9.25" (235mm) (235mm)				TF
		36'' (915mm)).875'')4mm)		SE

36''

66′′



ET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). IT CABINET BASE DIMENSIONS BEING SUPPLIED OWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" \times 25" (406mm \times 635mm). T CABINET BASE DIMENSIONS BEING SUPPLIED. LER CABINET TYPE IV.

LER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.

PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.

RAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION ..

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
(9.1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
equal to	13'-6" (4.1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
ess than m)	11'-0'' (3.4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
equal to less than m)	13'-0'' (4 . 0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
equal to d up to m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
equal to less than m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
equal to d up to m)	25'-0'' (7 . 6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

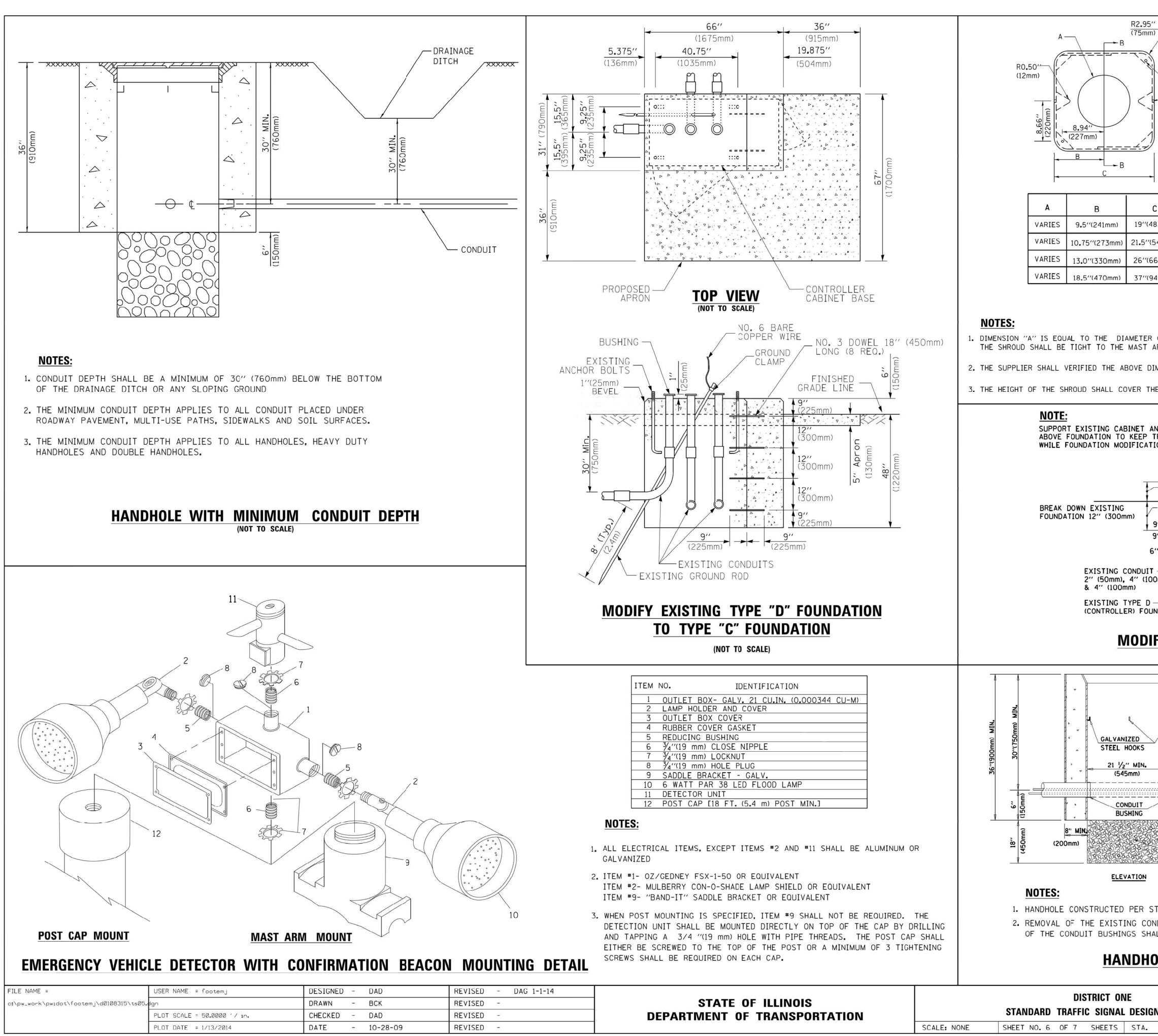
epths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). be verified by boring datc prior to construction or with testing by the Engineer drilling. The Bureau of Bridges & structures should be contacted for a revised ditions are encountered.

rm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations. rm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm)

blies with dual arms refer to state standard 878001..

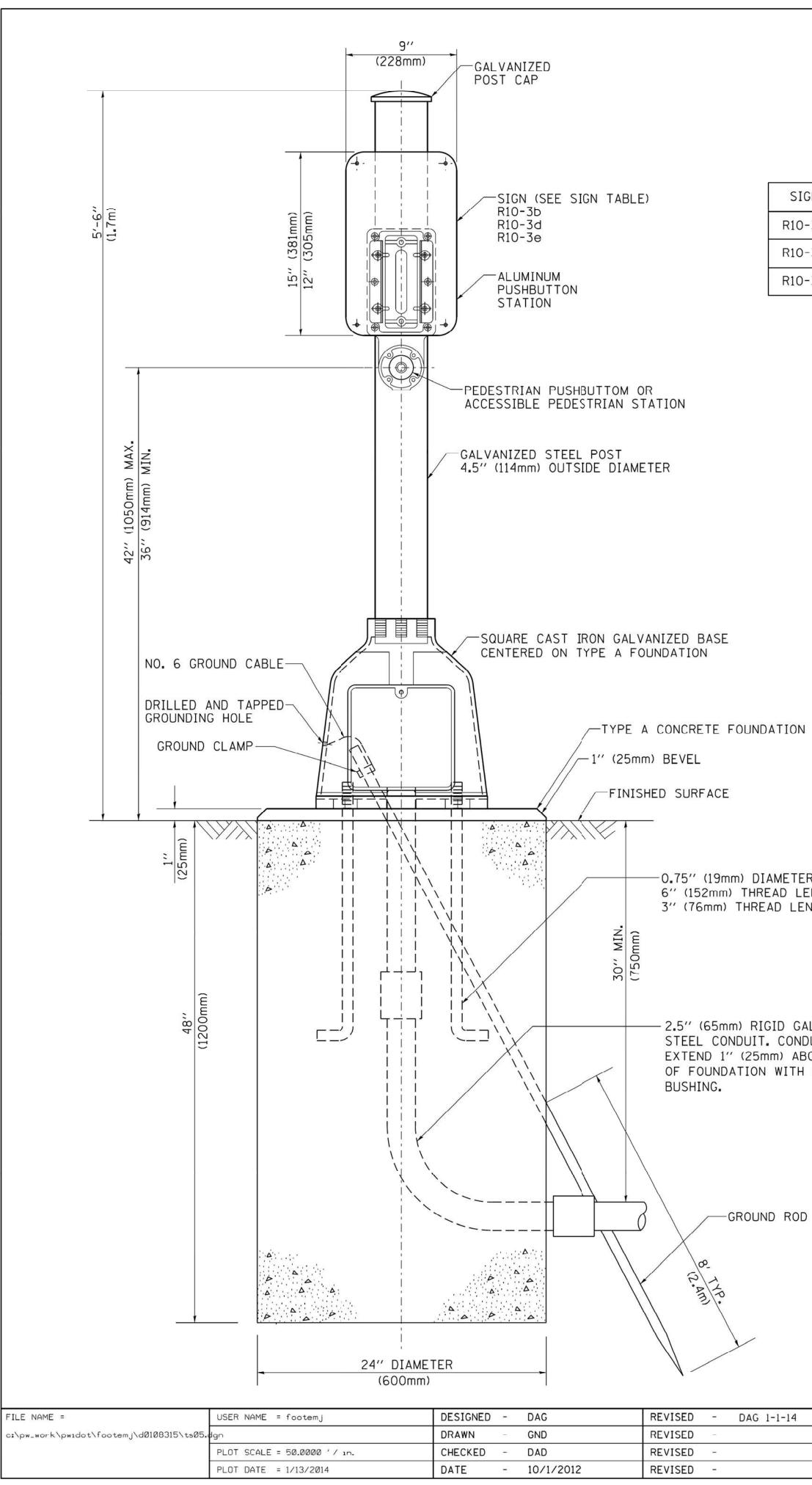
EPTH OF MAST ARM FOUNDATIONS, TYPE E

NE AL DESIGN DETAILS		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		1090 AND 4020	1090 AND 17-00060-00-RS		35	32		
			TS-05	CONTRACT	NO.	61E19		
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



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(75	.95'' imm) /	B-B R2.16''
B 	-	4° (55mm)
	Ø 0.2	<u>25''</u> (300mm)
\sum	l (6n	mm) 2-R 0.31"(5mm) → □→ □→ □→ □→ □→ □→ □→ □→ □→ □→ □→ □→ □
) <		
	-1)	(6mm)
в		0.23''(5mm) - 0.31''(8mm) MATERIAL:
1		
	C	HEIGHT WEIGHT
-)''(483mm)	7" (178mm) - 12" (300mm) 53 lbs (24kg) 7" (178mm) - 12" (300mm) 68 lbs (31 kg)
110 1200000 1 1	5''(546mm)	7" (178mm) - 12" (300mm) 68 lbs (31 kg) 7" (178mm) - 12" (300mm) 81 lbs (37 kg)
	5''(660mm) 7''(940mm)	7" (178mm) - 12" (300mm) 126 lbs (57 kg)
, 3,		
	S	HROUD
	TER OF THE	E MAST ARM POLE AT THE TOP OF THE SHROUD. DLE.
		DNS BASED ON MAST ARM REQUIREMENTS.
COVER	THE ANCH	HOR BOLTS, NUTS AND MAST ARM POLE BASE.
O KEE	P TRAFFIC	TROL EQUIPMENT C SIGNAL FUNCTIONING DIMENSION 4" (100mm) LARGER
		THAN CONTROLLER CABINET BASE DIMENSION, BOTH DIRECTIONS
		1" (25mm) 1" (25mm) BEVEL
	6" (15	50mm)
IG	/-12" (3	300mm)
), (mm	9" (225	5mm)
	9" (225	
	6" (150m	12" (300mm)
	UIT	ON 12" (300mm) CENTER (8 REO'D)
Omm) TYPE	D	NEW TYPE "D" (MODIFIED) FOUNDATION
	FOUNDATION	\ <u> </u>
мло		EXISTING TYPE "D" FOUNDATION
		CAISTING TIFE D FOUNDATION
	//	
	f.	~
	4	•
Ľ	ر بار.	w b d b d
ANIZED	S I	EXISTING CONDUIT
/₂" ΜΙΙ	f	
545mm)		
		CONDUIT BUSHING
		EXISTING CONDUIT TO REMAIN
08.035	1.673924883 	DRAIN PLAN
EVATIO		
ר סבי		STANDARD 814001
		STANDARD 814001. FROM THE HANDHOLE AND THE INSTALLATION
		INCLUDED WITH THE COST OF THE HANDHOLE.
		TO INTERCEPT EXISTING CONDUIT
	IIVEL	
DNE		F.A. SECTION COUNTY TOTAL SHEE NO.
	SIGN DET	AILS 1090 MD 17-00060-00-RS COOK 35 33
ST		TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



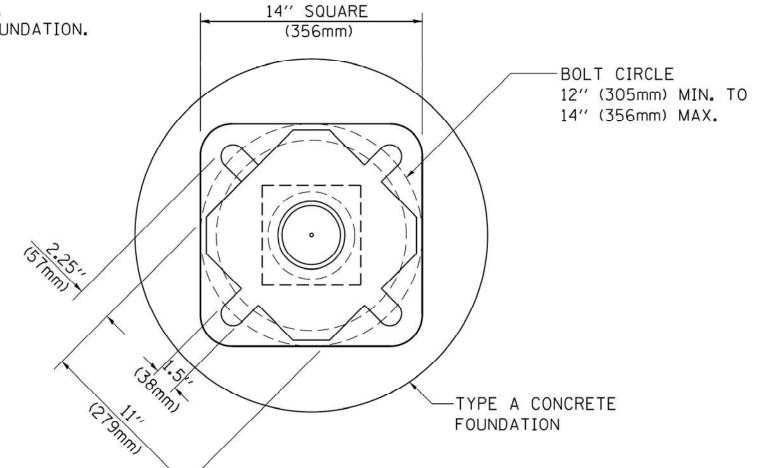
G 1-1-14	STATE OF ILLINOIS DISTRICT ON DEPARTMENT OF TRANSPORTATION SCALE: NONE SHEET NO. 7 OF 7 SHEETS		
	STATE OF ILLINOIS		STANDARD TRAFFIC SIGNAL
		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS

PEDESTRIAN PUSH BUTTON POST, TYPE A

BOLT PATTERN

-GROUND ROD

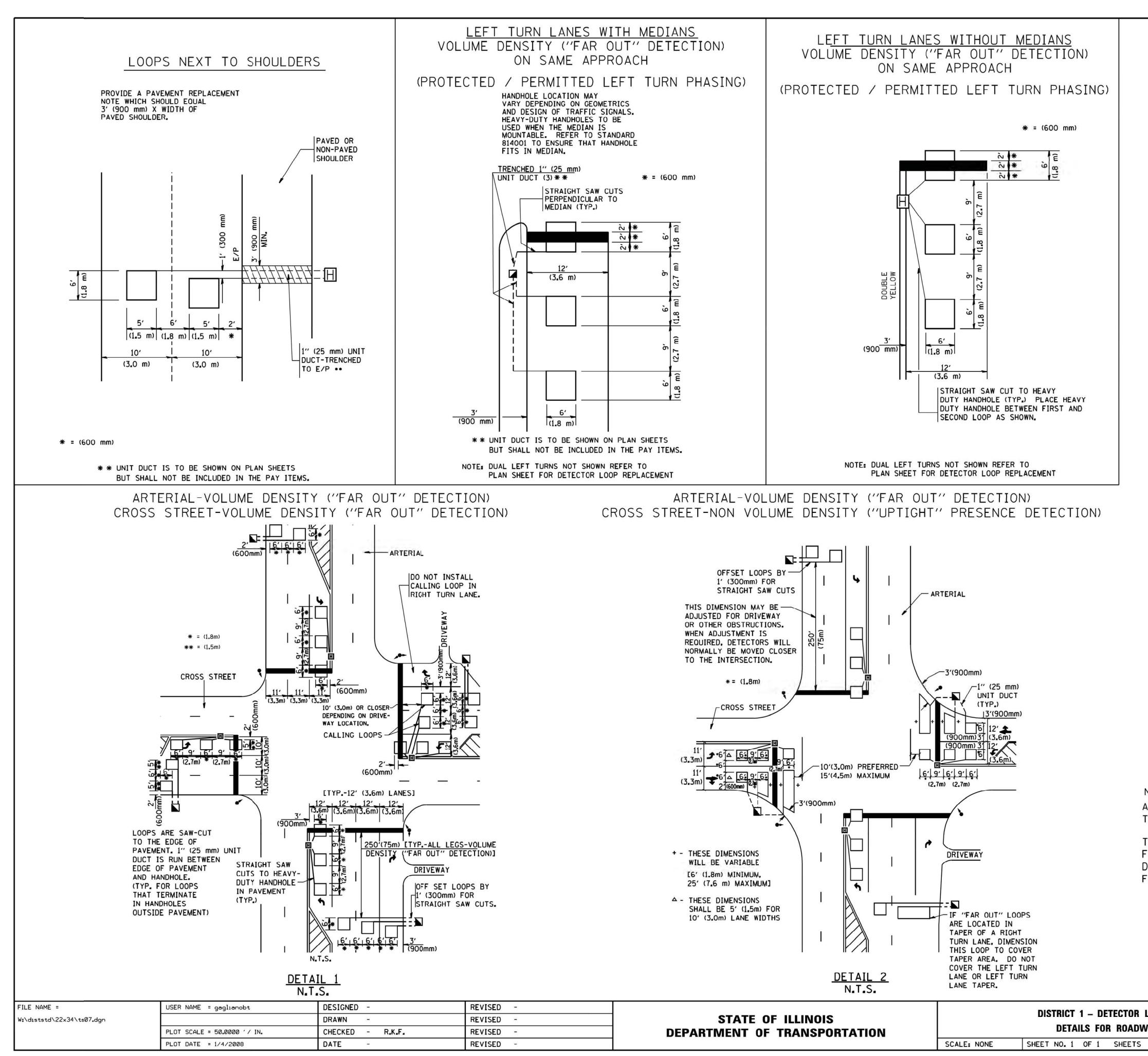
- 2.5" (65mm) RIGID GALVANIZED STEEL CONDUIT. CONDUIT TO EXTEND 1" (25mm) ABOVE TOP OF FOUNDATION WITH GROUNDING



-0.75'' (19mm) DIAMETER X 17'' (432mm) LENGTH ANCHOR BOLT, 6'' (152mm) THREAD LENGTH, 12'' (305mm) GALVANIZE LENGTH. 3" (76mm) THREAD LENGTH SHALL EXTEND ABOVE TOP OF FOUNDATION.

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)						

NE		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
L DESIGN DETAILS		1090 AND 4020	17-00060-00-RS	СООК	35	34	
			TS-05	CONTRACT	NO.	61E19	
STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



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 <u>ALL</u> 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, <u>MORE</u> 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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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 <u>ALL</u> 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.

LOOP INSTALLATION VAY RESURFACING		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		1090 AND 4020	17-00060-00-RS COOK		35	35		
VAT RESURFACING				TS07	CONTRACT	NO.	61E19	
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					