

FOR INDEX OF SHEETS AND  
HIGHWAY STANDARDS  
SEE SHEET NO. 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
FEDERAL-AID HIGHWAY

FAU 2319 (BRIER HILL ROAD)  
NORTH VILLAGE LIMITS  
TO FAU 2291 (BIG TIMBER ROAD)

RESURFACING  
SECTION: 17-00019-00-RS  
PROJECT NUMBER: GMT6(178)  
VILLAGE OF HAMPSHIRE  
KANE COUNTY  
C-91-081-18

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	1
CONTRACT NO. 61E64				



LOCATION OF SECTION INDICATED THUS. - **█** -

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THE STATE OF ILLINOIS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED: 12/21/17 2018  
*James R. Magnuson*  
VILLAGE OF HAMPSHIRE, VILLAGE PRESIDENT

PASSED: MARCH 21, 2018 2018  
*CELT CHESTERFIELD*  
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR  
BID BASED ON  
LIMITED REVIEW: March 22, 2018  
*Carl J. Quigley*  
REGIONAL ENGINEER

DATE: 2/12/2018  
BY: *Timothy V. Weidner*  
TIMOTHY V. WEIDNER

LICENSE EXPIRES: NOVEMBER 30, 2019

59549  
LICENSED PROFESSIONAL ENGINEER  
OF ILLINOIS

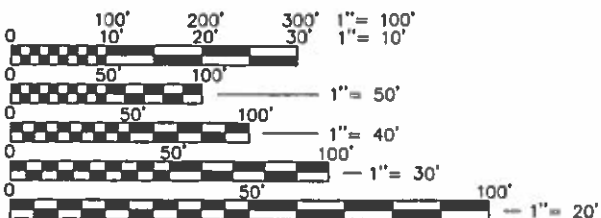
SEAL

**DESIGN DESIGNATION**  
BRIER HILL RD. MINOR COLLECTOR  
DESIGN SPEED = 30 M.P.H.  
POSTED SPEED, NOT POSTED  
ADT (2014) = 875 VPD

PROJECT ENDS  
STA. 62+85

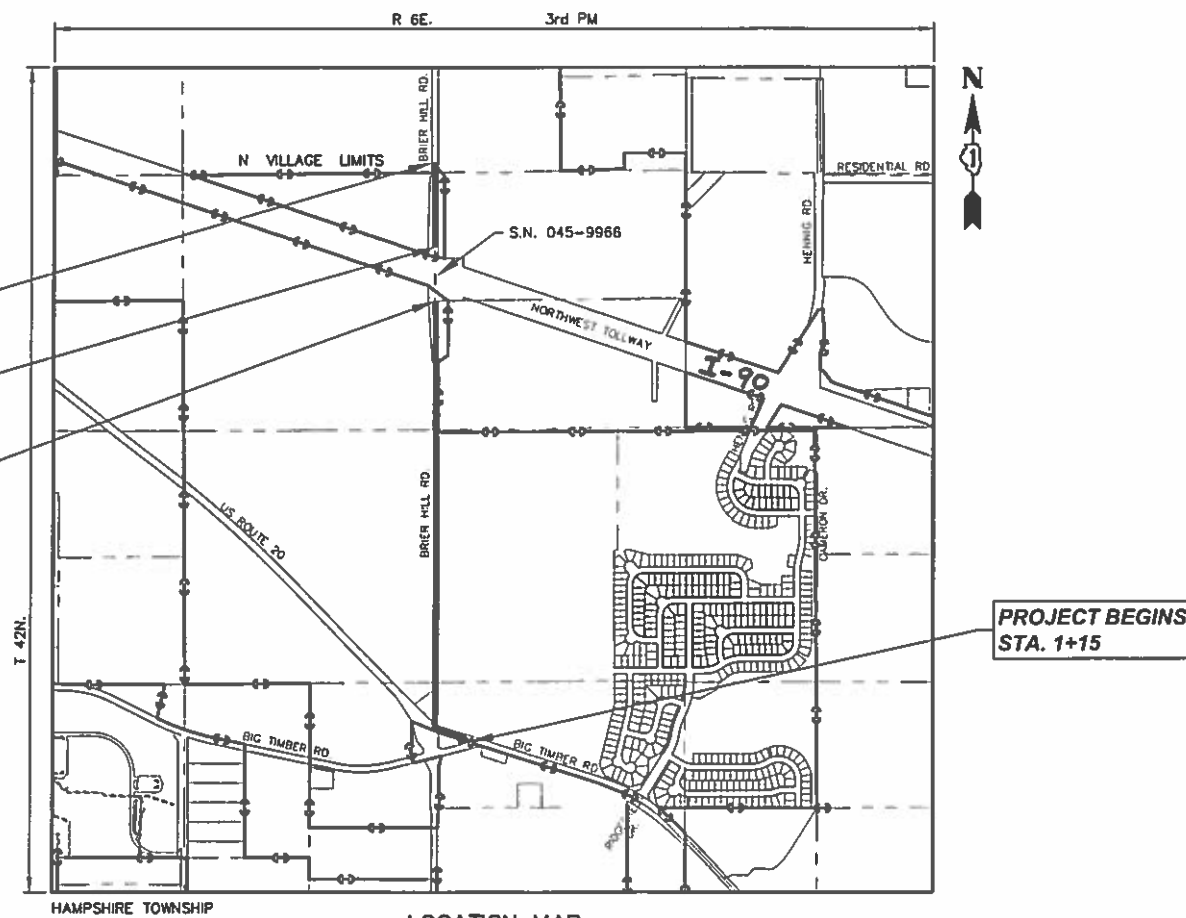
END OMISSION  
STA. 55+15

BEGIN OMISSION  
STA. 49+61



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.

JULIE  
JOINT  
UTILITY  
LOCATION  
INFORMATION FOR  
EXCAVATION  
CALL 811



HAMPSHIRE TOWNSHIP  
**LOCATION MAP**  
SCALE: 1" = 1000'  
GROSS LENGTH OF PROJECT = 6,170 FEET (1.169 MILE)  
NET LENGTH OF PROJECT = 5,616 FEET (1.064 MILE)

Engineering Enterprises, Inc.  
CONSULTING ENGINEERS  
52 Wheeler Road  
Sugar Grove, Illinois 60554  
630.466.6700 / www.eeiweb.com

**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 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY, 2018, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", SEVENTH EDITION, THE CODES AND ORDINANCES OF THE VILLAGE OF HAMPSHIRE, ILLINOIS, THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

NO SUBSTITUTIONS OR VARIANCES WILL BE PERMITTED TO ANY STANDARD NOTES OR ORDINANCES UNLESS APPROVED OTHERWISE IN WRITING PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND THE PLANS

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IF ANY UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, THE OWNER'S AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.

MISCELLANEOUS

THE THICKNESS OF ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE ASPHALT MIXTURES ARE TO BE PLACED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

PATCHING LOCATIONS SHALL BE VERIFIED BY THE ENGINEER AND MARKED OUT BY THE ENGINEER IN THE FIELD.

BRIER HILL ROAD SHALL BE OPEN TO TRAFFIC AT ALL TIMES. WHEN IT IS NECESSARY TO CLOSE ONE LANE OF TRAFFIC DUE TO CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION HOURS WITH THE USE OF TRAFFIC CONTROL DEVICES, SIGNS AND FLAGGERS AS APPLICABLE IN THE TRAFFIC CONTROL STANDARDS.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

**INDEX OF SHEETS**



SHEET NO.	SHEET DESCRIPTION
1.	COVER SHEET AND LOCATION MAP
2.	GENERAL NOTES, HIGHWAY STANDARDS, SUPPLEMENTAL LEGEND AND INDEX OF SHEETS
3.	SUMMARY OF QUANTITIES
4.	TYPICAL SECTIONS
5.-11.	GENERAL PLAN
<b>DISTRICT ONE DETAILS</b>	
12.	(TC-10) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
13.	(TC-13) DISTRICT ONE - TYPICAL PAVEMENT MARKINGS
14.	(TC-22) ARTERIAL ROAD INFORMATION SIGN
15.	(BD-22) PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
16.	(BD-32) BUTT JOINT AND HMA TAPER DETAILS

**HIGHWAY STANDARDS**

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
442201-03	CLASS C AND D PATCHES
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15'(4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS - DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-07	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

**SUPPLEMENTAL LEGEND**

SEE IDOT HIGHWAY STANDARD 000001-06 FOR ADDITIONAL INFORMATION

-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
-  HOT-MIX ASPHALT SURFACE REMOVAL, 1" OR 1.5"

Plotted: March 21, 2018 @ 2:24 PM By: Kris Pung - Tab: 02 Index 22x34

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, HIGHWAY STANDARDS,  
SUPPLEMENTAL LEGEND AND INDEX OF SHEETS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	2
CONTRACT NO.			61E64	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP				

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SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY ROADWAY 75% FEDERAL 25% LOCAL 0005
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	9,366
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	986
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	189
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1,576
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	25
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	11,828
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1,711
44201690	CLASS D PATCHES, TYPE I, 4 INCH	SQ YD	945
44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	200
44201694	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	135
44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	70
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	6,000
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	175
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,250
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	750
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	48
Δ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	90
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	15,420
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	27
* X0326458	PAVEMENT REPLACEMENT, SPECIAL	SQ YD	236
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52

Δ - Indicates specialty item  
\* - See special provisions

Plot Date: February 26, 2018 @ 1:24 PM By: Kris Pung -- Tab: 03 Sum of Ques 22x34

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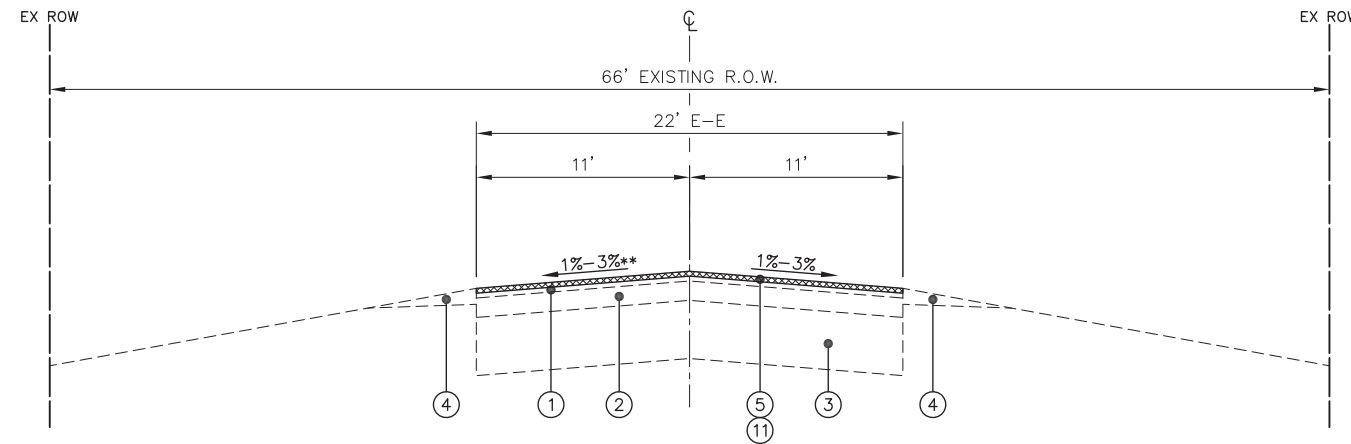
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DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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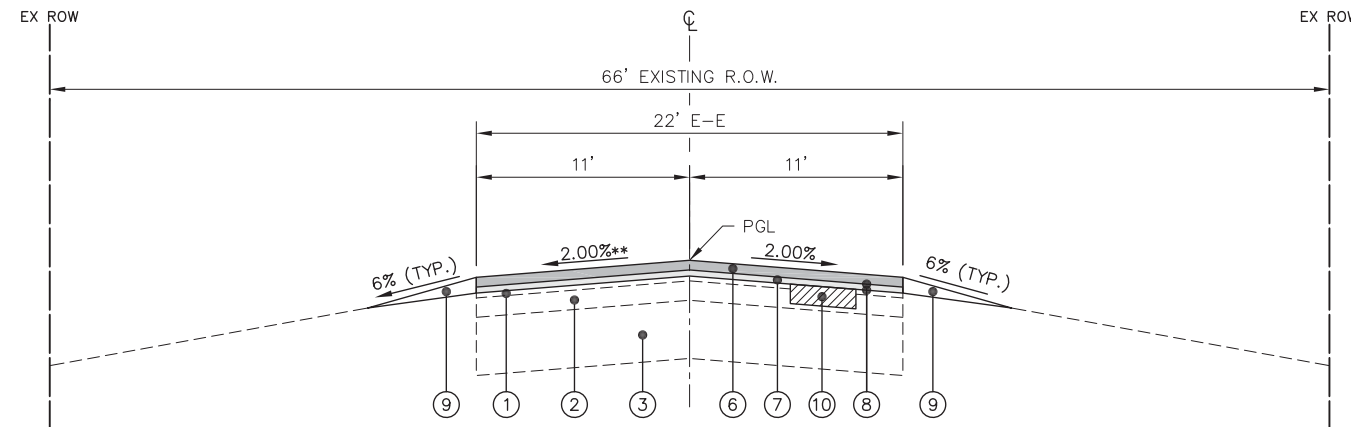
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	3
CONTRACT NO. 61E64				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT - STP				

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**EXISTING TYPICAL SECTION**

STA 36+00 TO STA 43+00 (1.5" MILL)  
 STA 1+15 TO STA 36+00 AND STA 43+00 TO STA 62+85 (1" MILL)  
 N.T.S.



**PROPOSED TYPICAL SECTION**

STA 1+15 TO STA 49+61, STA 55+15 TO STA 62+85  
 OMISSION STA 49+61 TO STA 55+15, BRIER HILL ROAD (BRIDGE OVER I-90)  
 N.T.S.

**LEGEND**

- PATCHING
- \*\* SUPERELEVATION UP TO 6% ON CURVE FROM STA 4+80 TO STA 5+50

LEGEND	
① EXISTING 0.0" TO 2.0" ASPHALT SURFACE COURSE	⑧ BITUMINOUS MATERIALS (TACK COAT)
② EXISTING 1" TO 7.0" ASPHALT BINDER COURSE	⑨ AGGREGATE WEDGE SHOULDER, 2'
③ EXISTING 7.5" TO 15" AGGREGATE BASE COURSE	⑩ CLASS D PATCH, 4" (LOCATION TO BE DETERMINED BY ENGINEER)
④ EXISTING 2' AGGREGATE SHOULDER	⑪ HOT-MIX ASPHALT SURFACE REMOVAL, 1.5"
⑤ HOT-MIX ASPHALT SURFACE REMOVAL, 1"	
⑥ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2.0"	
⑦ LEVELING BINDER (MACHINE METHOD), IL-9.5, N50, 1.25"	

CONTRACTOR SHALL MILL BEFORE PATCHING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
OPERATION	MIXTURE TYPE	AIR VOIDS @ Ndes
BRIER HILL ROAD RESURFACING	LEVELING BINDER (MACHINE METHOD), N50, (IL-9.5mm), 1.25"	4% @ 50 Gyr.
	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm), 2"	4% @ 50 Gyr.
PATCHING	CLASS D PATCHES, 4" HMA BINDER COURSE, IL-19.0, N70, 4" (IN 1 LIFT)	4% @ 70 Gyr.
PAVEMENT REPLACEMENT, SPECIAL	PAVEMENT REPLACEMENT, SPECIAL HMA BINDER COURSE, IL-19.0, N70, 4" (IN 1 LIFT)	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

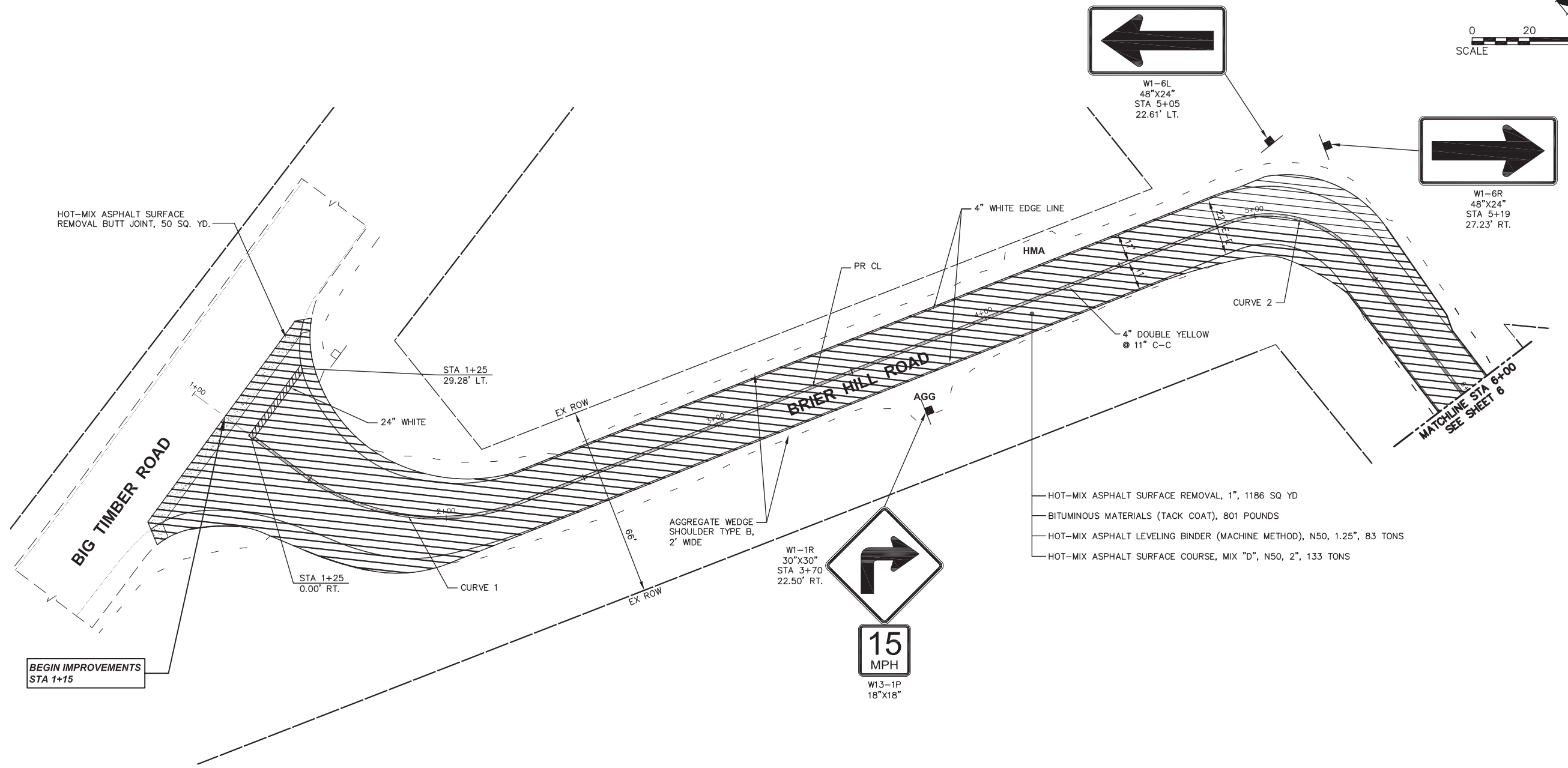
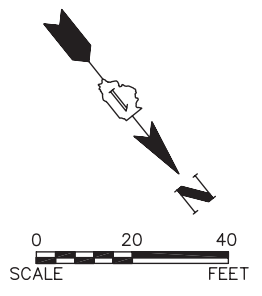
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

Plotted: February 26, 2018 @ 11:28 AM By: Kris Pung - Tab: 04 Typ Section 22x34

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HOT-MIX ASPHALT SURFACE  
REMOVAL BUTT JOINT, 50 SQ. YD.

BIG TIMBER ROAD

BRIER HILL ROAD

BEGIN IMPROVEMENTS  
STA 1+15

CURVE 1		CURVE 2	
PI STA	= 1+90.57	PI STA	= 5+20.07
Δ	= 58.0151°	Δ	= 74.1965°
D	= 71.6197'	D	= 143.2394'
R	= 80.00'	R	= 40.00'
T	= 44.36'	T	= 30.25'
L	= 81.00'	L	= 51.80'
E	= 11.47'	E	= 10.15'
PC STA	= 1+46.21	PC STA	= 4+89.82
PT STA	= 2+27.22	PT STA	= 5+41.62

- HOT-MIX ASPHALT SURFACE REMOVAL, 1", 1186 SQ YD
- BITUMINOUS MATERIALS (TACK COAT), 801 POUNDS
- HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N50, 1.25", 83 TONS
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2", 133 TONS

NOTES:  
1. ALL PAVEMENT MARKINGS  
SHALL BE THERMOPLASTIC.

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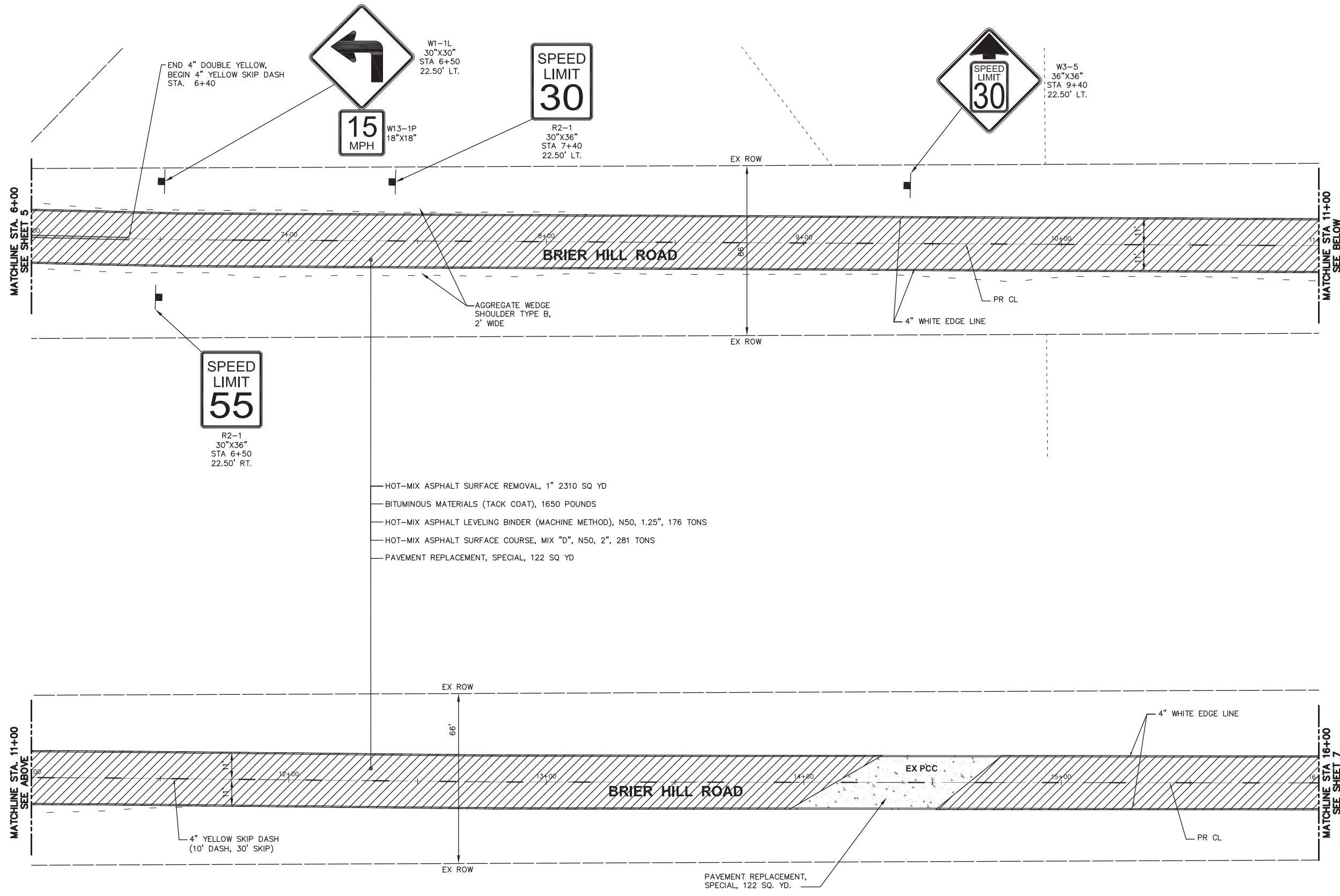
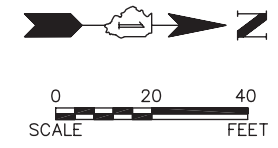
**GENERAL PLAN**

SCALE: 1"=20' SHEET NO. 1 OF 7 SHEETS STA. 1+00 TO STA. 6+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	5
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61E64	
FED. AID PROJECT - STP				

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- HOT-MIX ASPHALT SURFACE REMOVAL, 1" 2310 SQ YD
- BITUMINOUS MATERIALS (TACK COAT), 1650 POUNDS
- HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N50, 1.25", 176 TONS
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2", 281 TONS
- PAVEMENT REPLACEMENT, SPECIAL, 122 SQ YD

NOTES:  
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

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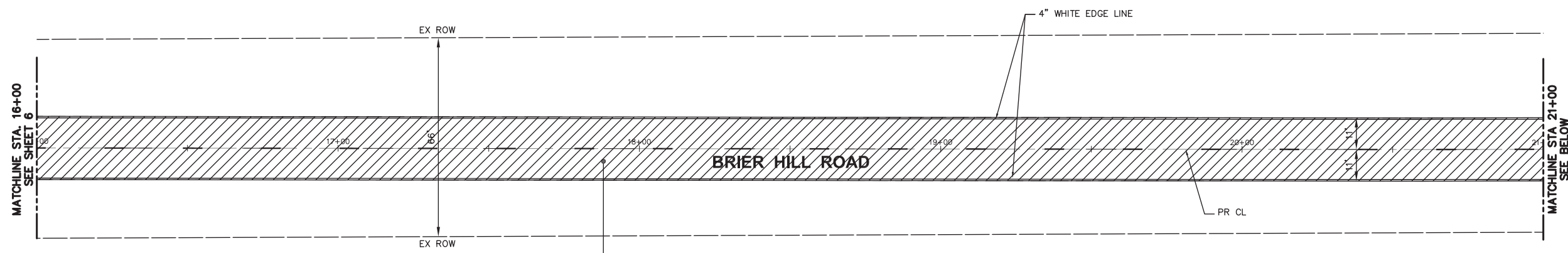
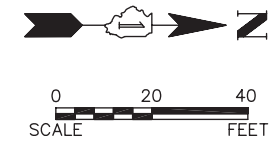
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**GENERAL PLAN**

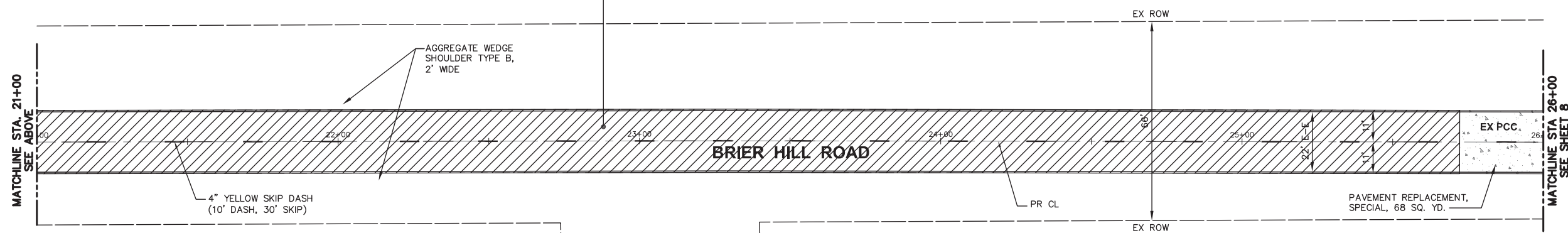
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP			CONTRACT NO. 61E64	

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- HOT-MIX ASPHALT SURFACE REMOVAL, 1" 2290 SQ YD
- BITUMINOUS MATERIALS (TACK COAT), 1650 POUNDS
- HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N50, 1.25", 176 TONS
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2", 281 TONS
- PAVEMENT REPLACEMENT, SPECIAL, 68 SQ YD



NOTES:  
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

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PLOT DATE =	DATE -	REVISED -

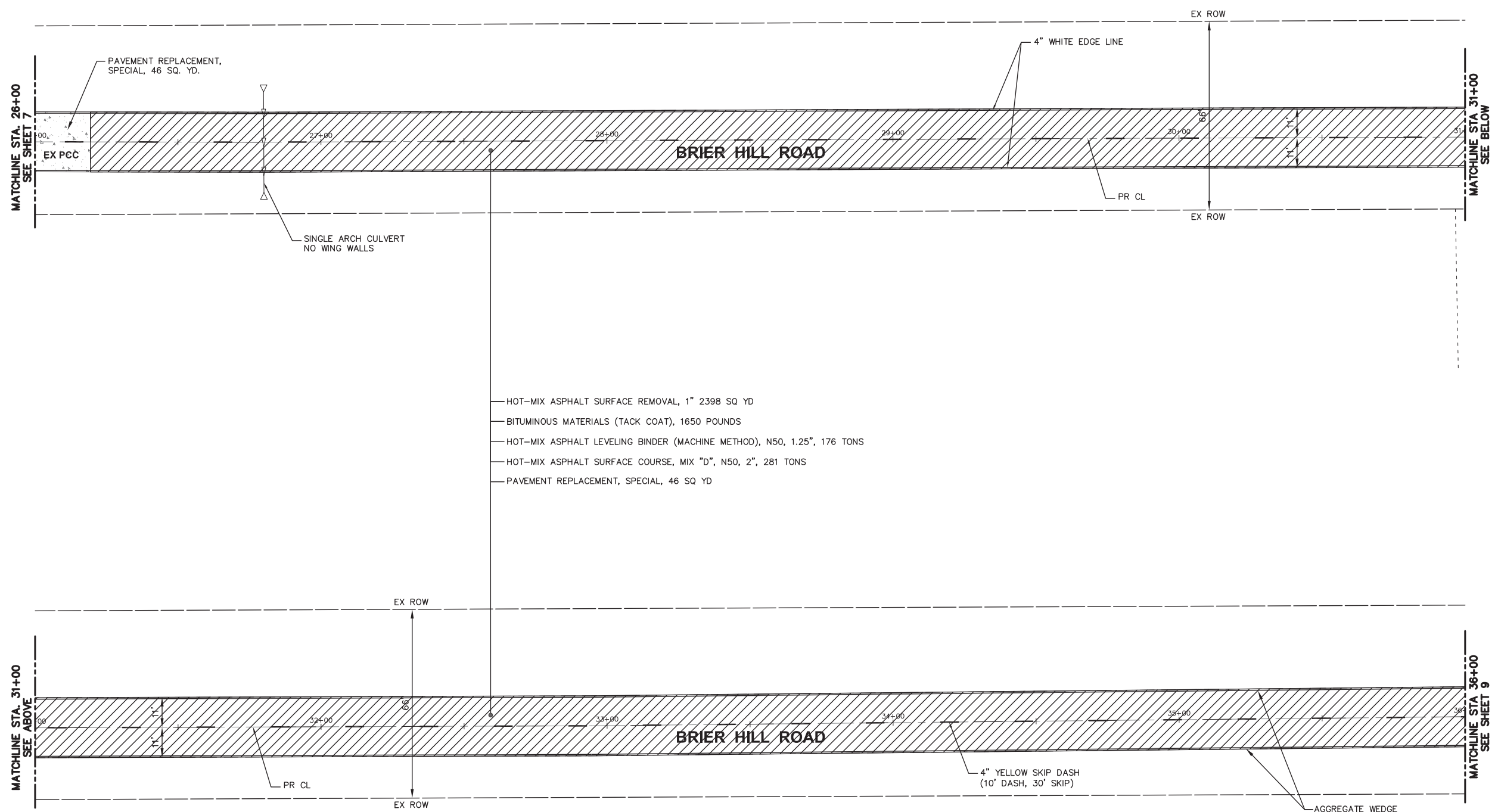
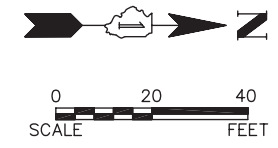
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DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN**

SCALE: 1"=20'      SHEET NO. 3 OF 7 SHEETS      STA. 16+00 TO STA. 26+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	7
CONTRACT NO. 61E64				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP				

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- HOT-MIX ASPHALT SURFACE REMOVAL, 1" 2398 SQ YD
- BITUMINOUS MATERIALS (TACK COAT), 1650 POUNDS
- HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N50, 1.25", 176 TONS
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2", 281 TONS
- PAVEMENT REPLACEMENT, SPECIAL, 46 SQ YD

NOTES:  
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

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PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

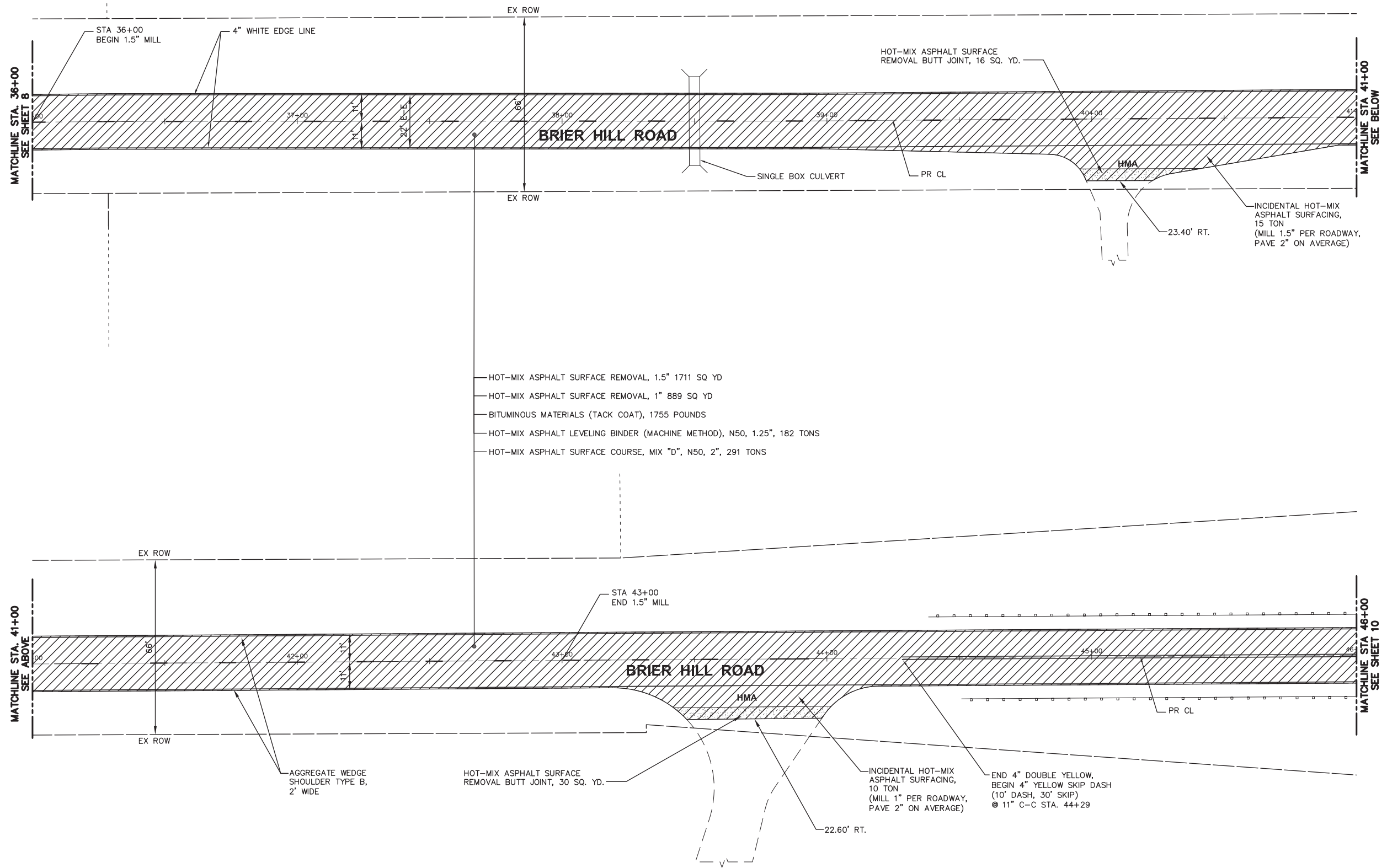
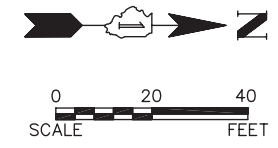
**GENERAL PLAN**

SCALE: 1"=20'      SHEET NO. 4 OF 7 SHEETS      STA. 26+00 TO STA. 36+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	8
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61E64	
FED. AID PROJECT - STP				

Path: H:\SDSKPROJ\HA1708\DWG\DWG\_FINAL\_ENG\HA1708-PLAN





- HOT-MIX ASPHALT SURFACE REMOVAL, 1.5" 1711 SQ YD
- HOT-MIX ASPHALT SURFACE REMOVAL, 1" 889 SQ YD
- BITUMINOUS MATERIALS (TACK COAT), 1755 POUNDS
- HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N50, 1.25", 182 TONS
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2", 291 TONS

NOTES:  
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

Plotted: February 26, 2018 @ 1:21 PM By: Kris Pung - Tab: 09 Plan 05 22x34

**Engineering Enterprises, Inc.**  
CONSULTING ENGINEERS  
52 Wheeler Road  
Sugar Grove, Illinois 60554  
630.466.6700 / www.eeiweb.com

USER NAME =	DESIGNED - KDW	REVISED -
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DATE -	REVISED -	
PLOT SCALE =		
PLOT DATE =		

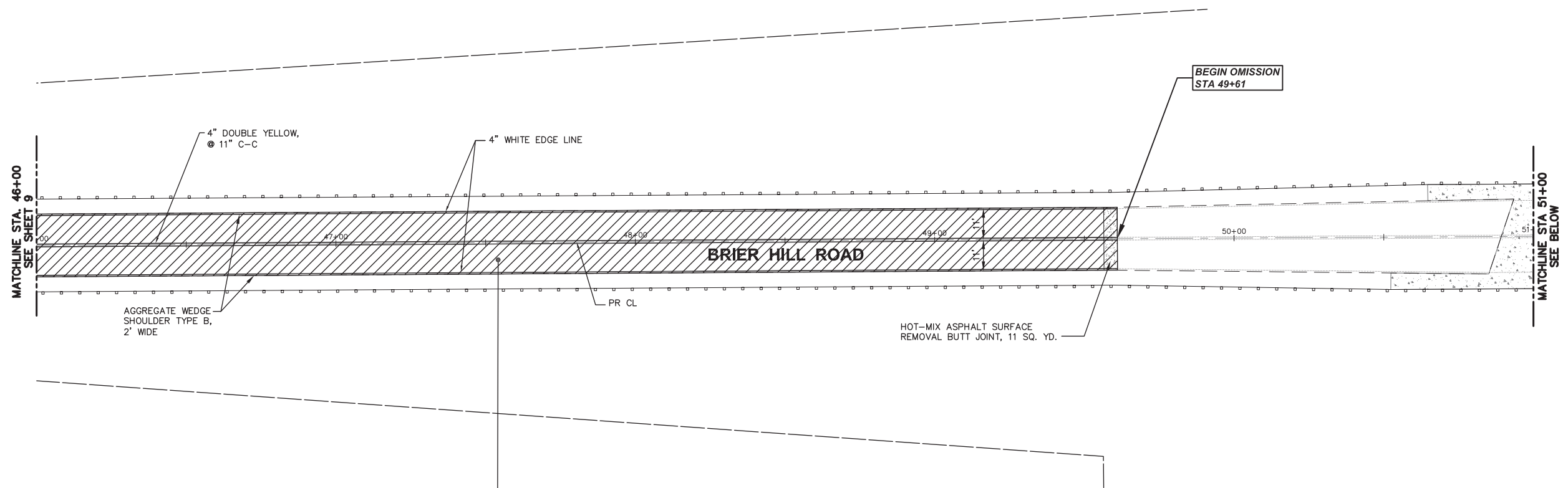
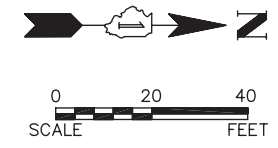
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN**

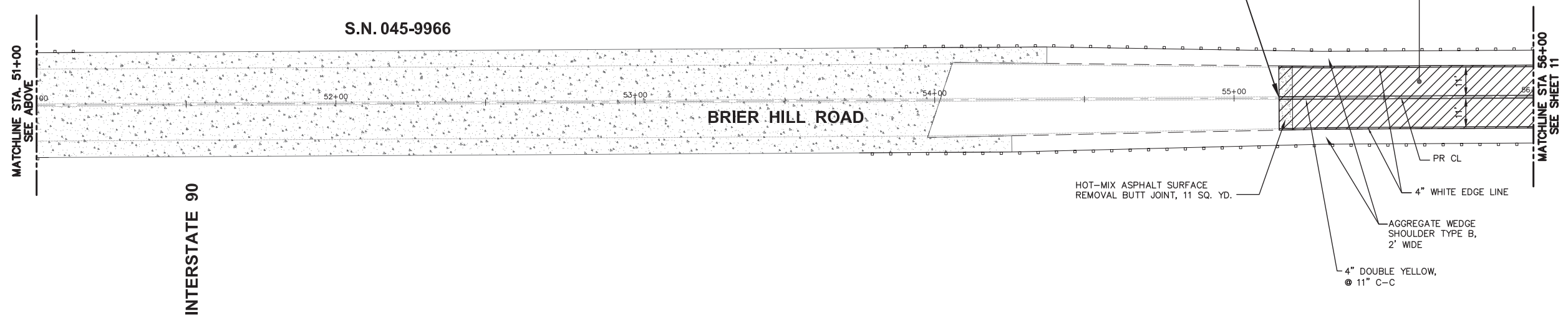
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	9
CONTRACT NO. 61E64				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP				

Path: H:\SDSKPROJ\HA1708\DWG\DWG\_FINAL\_ENG\HA1708-PLAN



- HOT-MIX ASPHALT SURFACE REMOVAL, 1" 1080 SQ YD
- BITUMINOUS MATERIALS (TACK COAT), 729 POUNDS
- HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N50, 1.25", 76 TONS
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2", 121 TONS



- HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT, 11 SQ. YD.
- 4" WHITE EDGE LINE
- AGGREGATE WEDGE SHOULDER TYPE B, 2' WIDE
- 4" DOUBLE YELLOW, @ 11" C-C

NOTES:  
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

Plotted: March 21, 2018 @ 2:34 PM By: Kris Pung - Tab: 10 Plan 06 22x34

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Sugar Grove, Illinois 60554  
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USER NAME =	DESIGNED - KDW	REVISED -
DRAWN - JPS/CLN/KKP	REVISED -	
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PLOT DATE =	DATE -	REVISED -

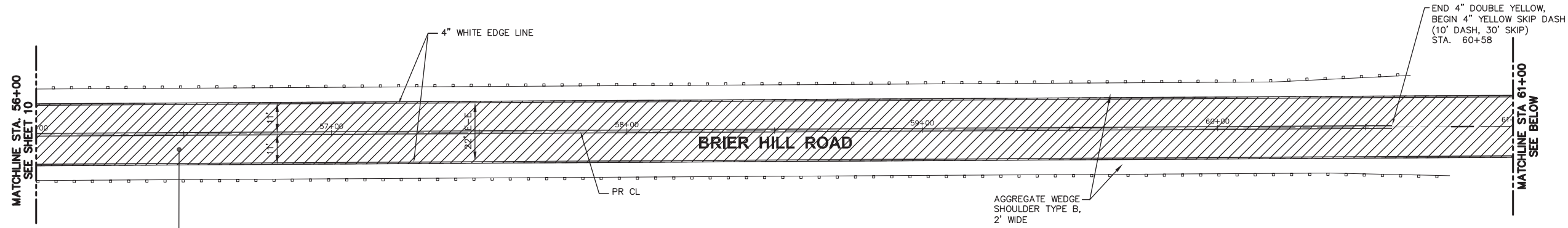
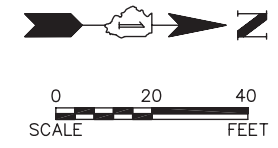
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN**

SCALE: 1"=20'      SHEET NO. 6 OF 7 SHEETS      STA. 46+00 TO STA. 56+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	10
CONTRACT NO. 61E64				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP				

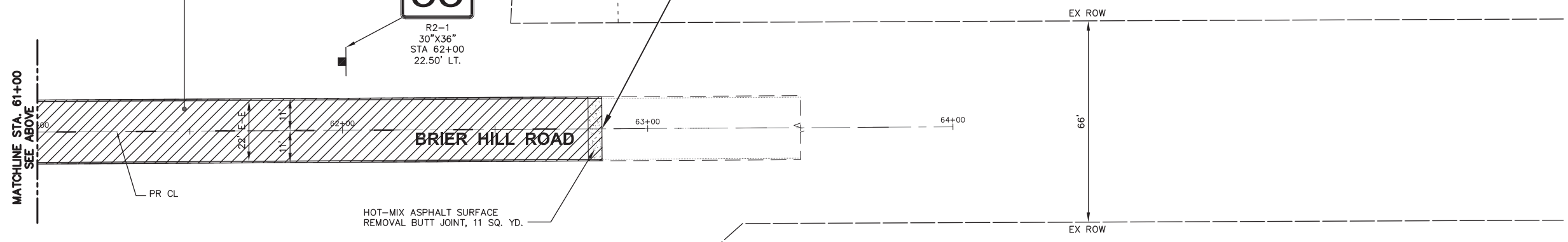
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- HOT-MIX ASPHALT SURFACE REMOVAL, 1" 1675 SQ YD
- BITUMINOUS MATERIALS (TACK COAT), 1131 POUNDS
- HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD), N50, 1.25", 117 TONS
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2", 188 TONS



END IMPROVEMENTS  
STA 62+85  
BRIER HILL ROAD  
VILLAGE LIMITS



NOTES:  
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

Plotted: March 21, 2018 @ 2:36 PM By: Kris Pung - Tab: 11 Plan 07 22x34

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Sugar Grove, Illinois 60554  
630.466.6700 / www.eeiweb.com

USER NAME =	DESIGNED - KDW	REVISED -
	DRAWN - JPS/CLN/KKP	REVISED -
PLOT SCALE =	CHECKED - TVW	REVISED -
PLOT DATE =	DATE -	REVISED -

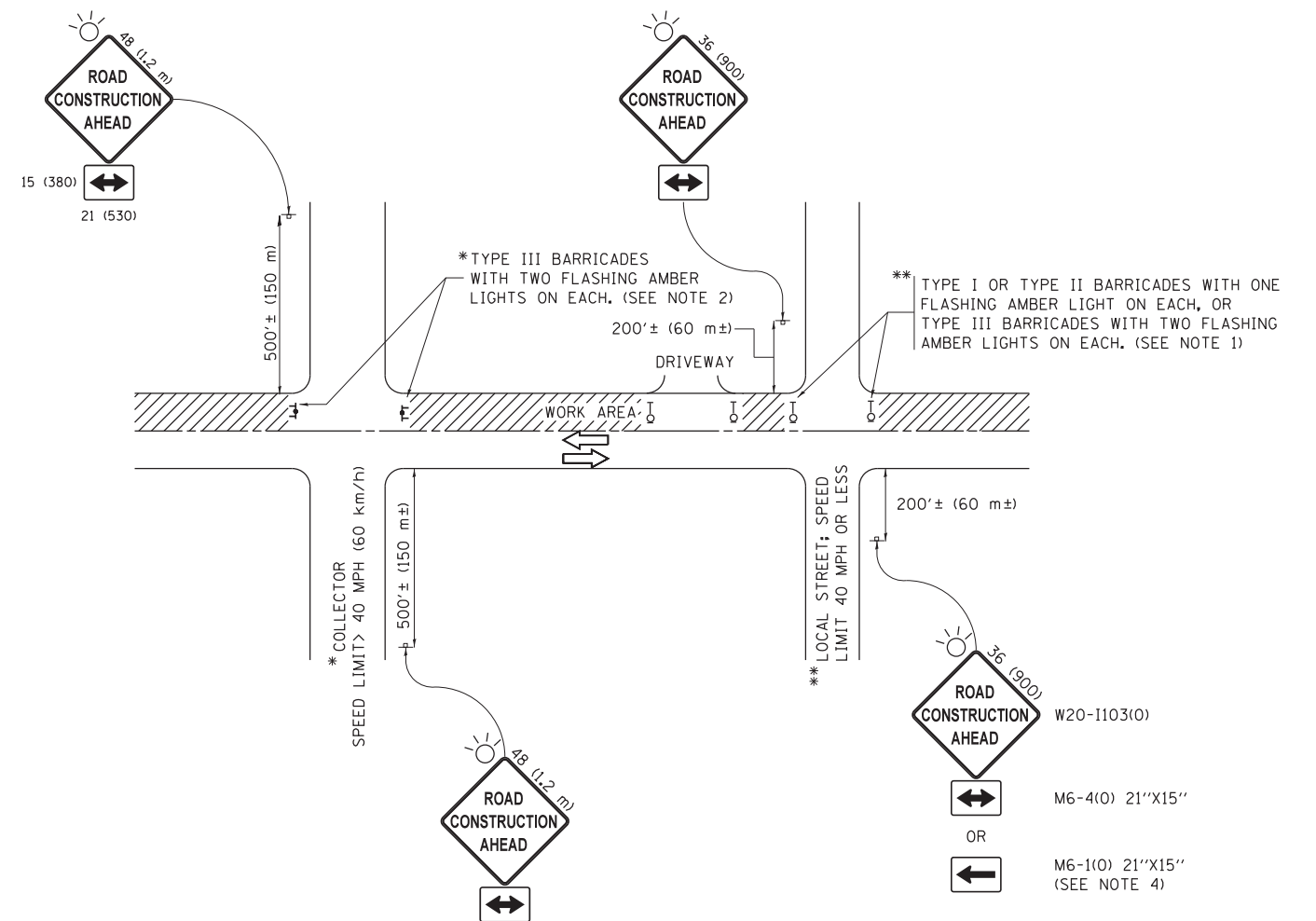
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN**

SCALE: 1"=20' SHEET NO. 7 OF 7 SHEETS STA. 56+00 TO STA. 63+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	11
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61E64	
FED. AID PROJECT - STP				

Path: H:\SDSKPROJ\HA1708\DWG\DWG\_FINAL\_ENG\HA1708-PLAN



**NOTES:**

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.
- 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).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

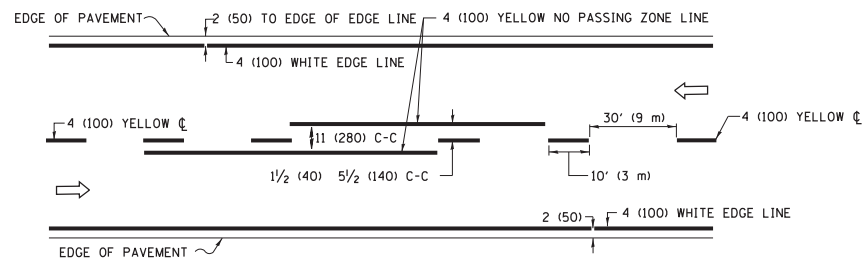
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	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

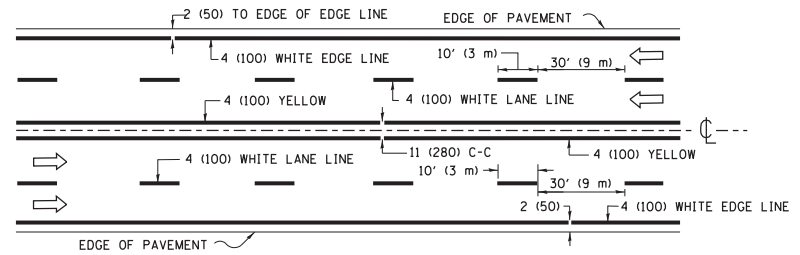
**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

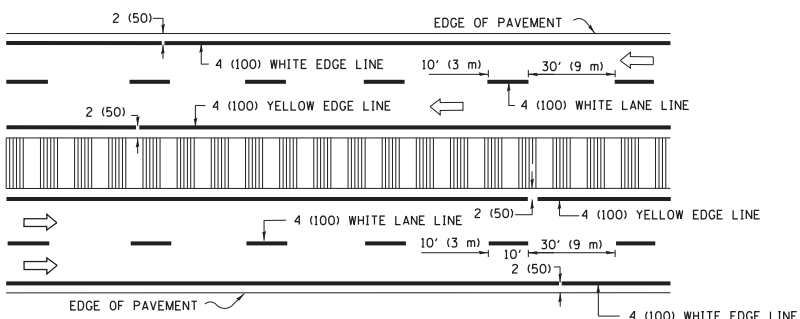
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	12
<b>TC-10</b>			<b>CONTRACT NO. 61E64</b>	
ILLINOIS FED. AID PROJECT - STP				



**2-LANE ROADWAY**

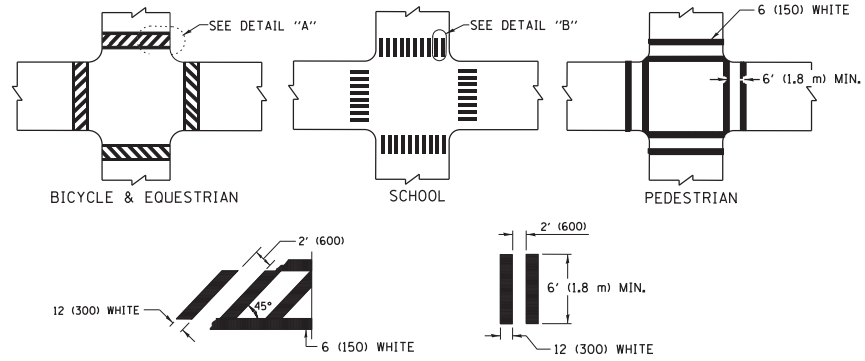


**MULTI-LANE UNDIVIDED**



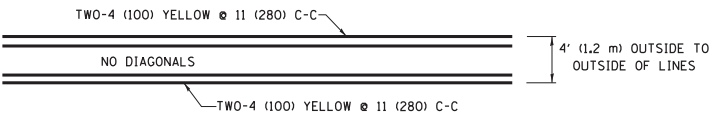
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

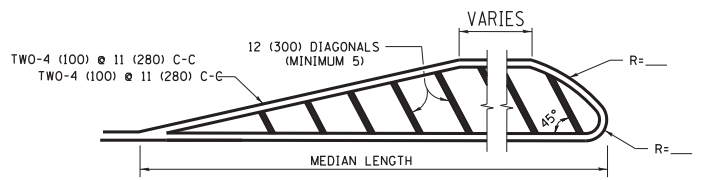


**DETAIL "A"      DETAIL "B"**  
**TYPICAL CROSSWALK MARKING**

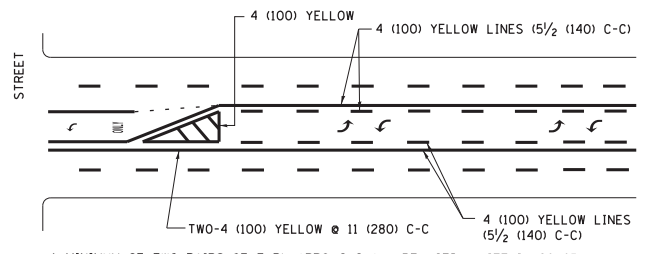
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



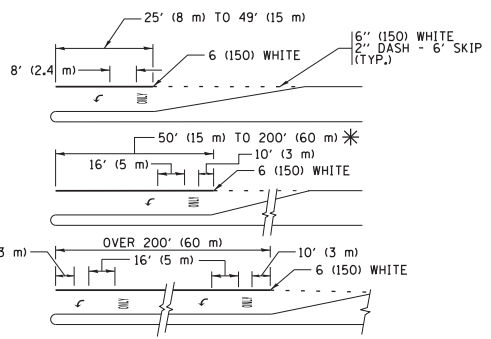
**4' (1.2 m) WIDE MEDIANS ONLY**



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

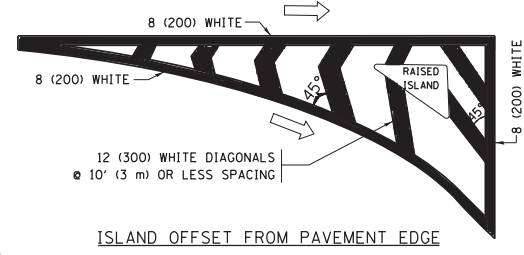


**MEDIAN WITH TWO-WAY LEFT TURN LANE**  
**TYPICAL PAINTED MEDIAN MARKING**

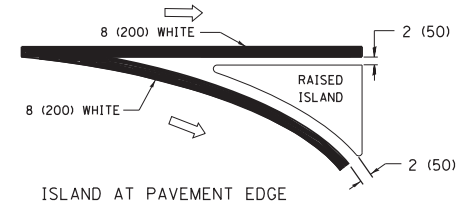


**TYPICAL LEFT (OR RIGHT) TURN LANE**  
**TYPICAL TURN LANE MARKING**

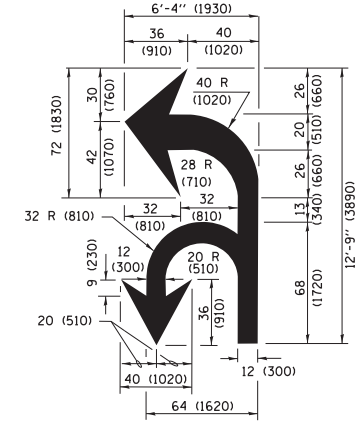
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



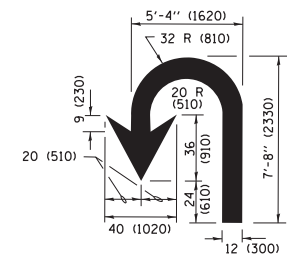
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE**  
**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (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; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO 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 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

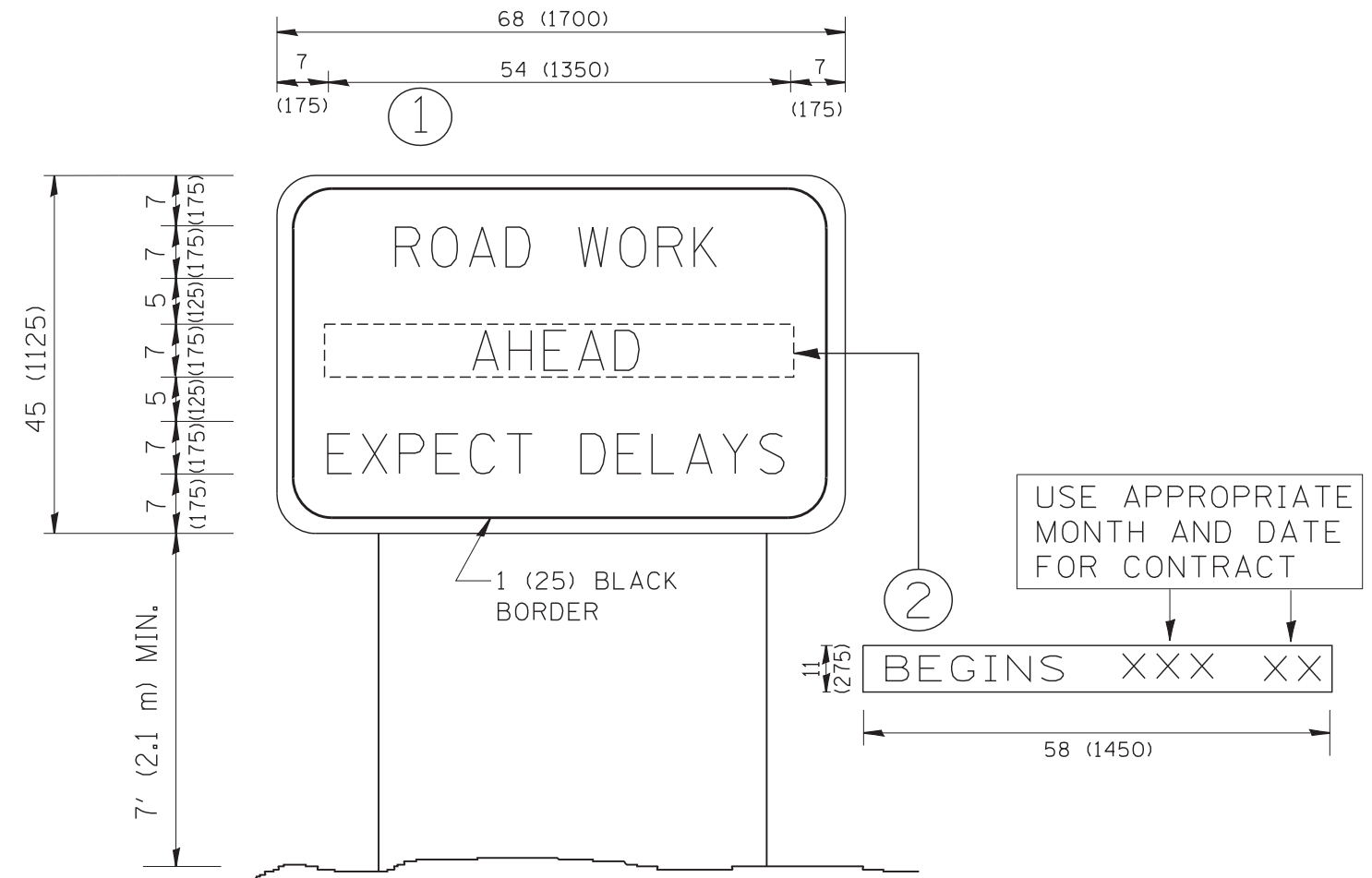
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	PLOT DATE = 4/13/2016		REVISED - C. JUCIUS 04-12-16

**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.
2319	17-00019-00-RS	KANE	16	13
<b>TC-13</b>		CONTRACT NO. 61E64		
ILLINOIS FED. AID PROJECT - STP				



**NOTES:**

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

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegl1onobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

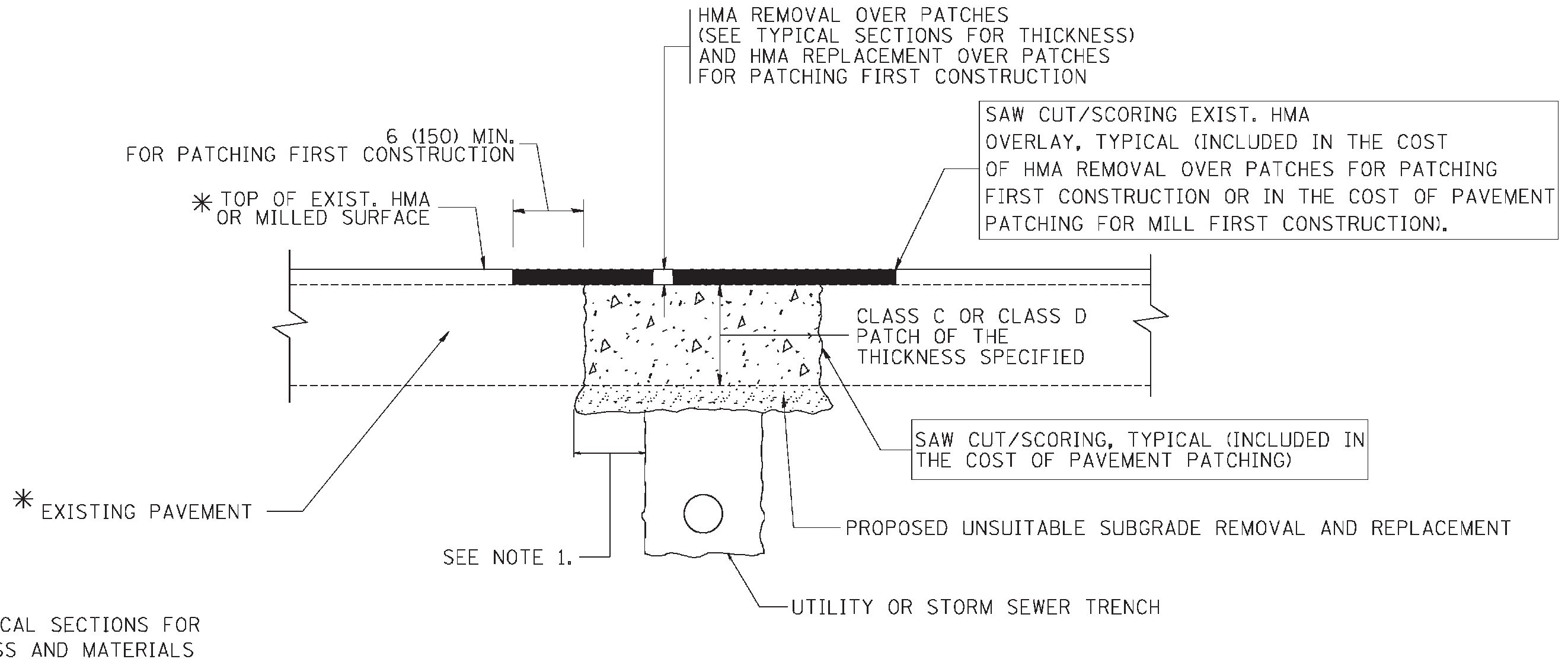
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.P. RTE. 2319	SECTION 17-00019-00-RS	COUNTY KANE	TOTAL SHEETS 16	SHEET NO. 14
<b>TC-22</b>		CONTRACT NO. 61E64		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP				





\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 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 PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

Plotted: February 26, 2018 @ 11:35 AM By: Kris Pung - Job: 15 BD-22 22x34

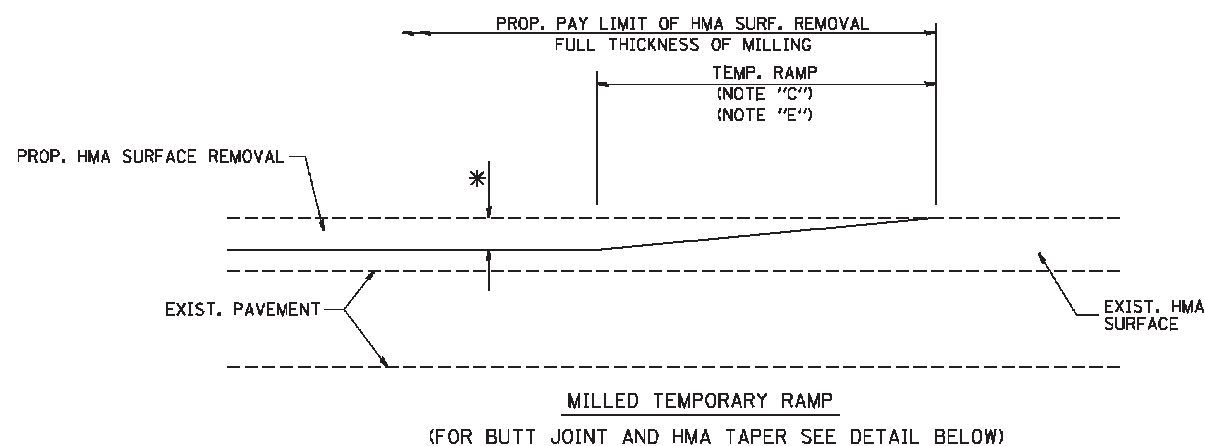
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

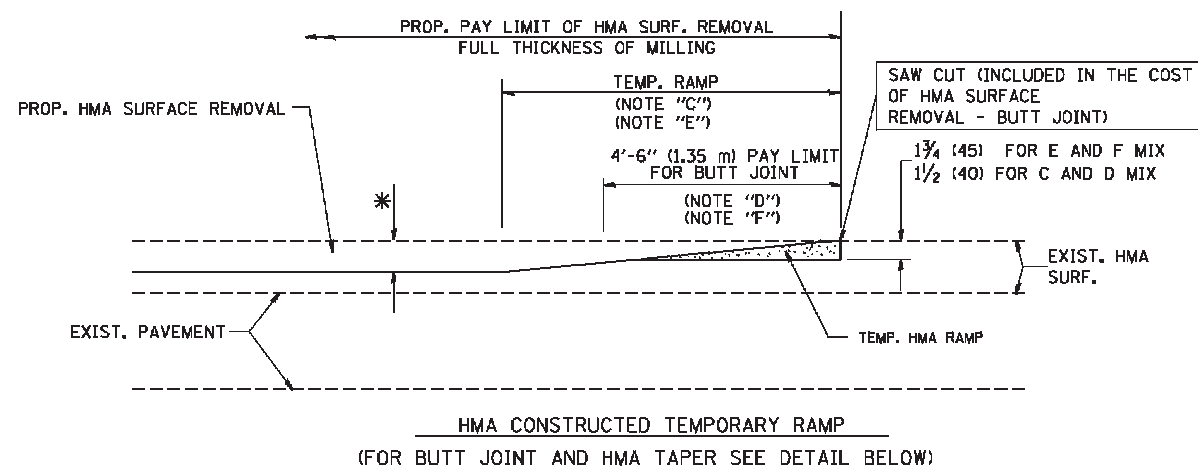
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SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE. 2319	SECTION 17-00019-00-RS	COUNTY KANE	TOTAL SHEETS 16	SHEET NO. 15
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP				

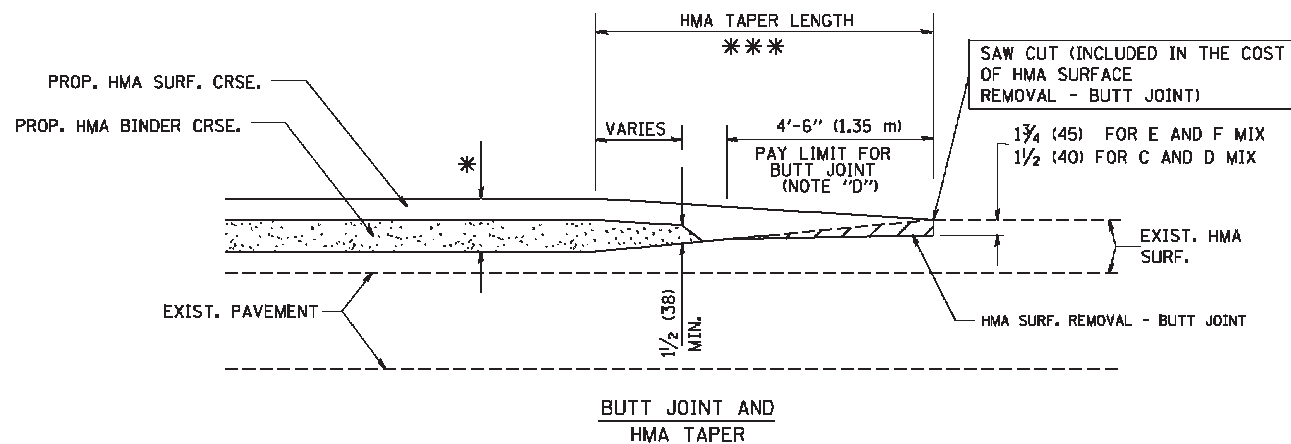
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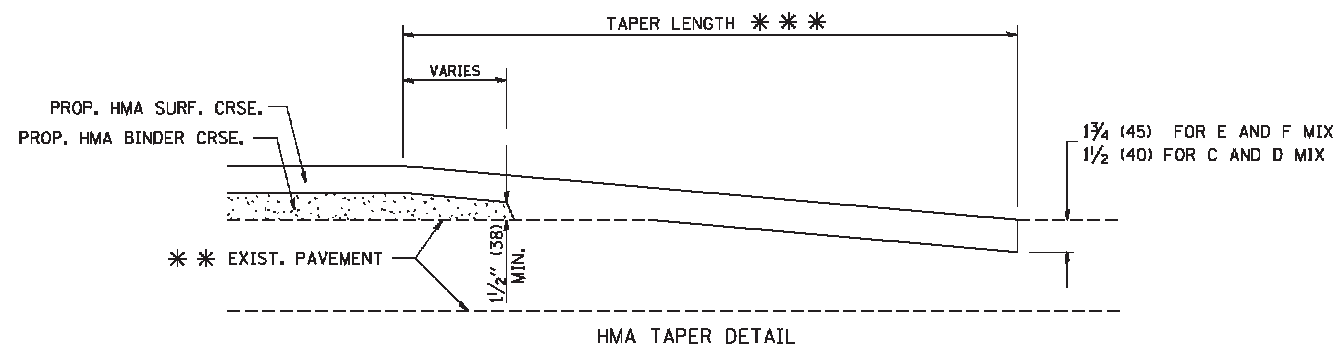
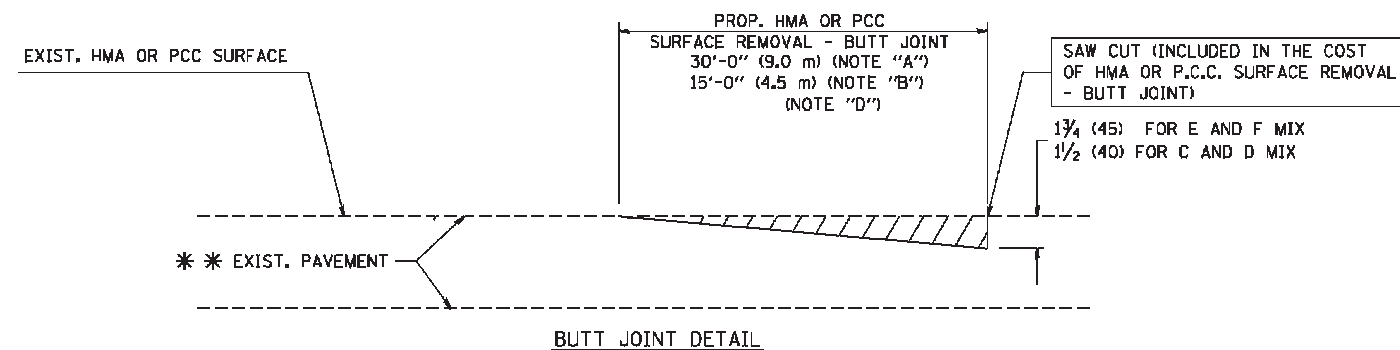
**OPTION 1**



**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



**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.

Plotted: February 26, 2018 @ 11:35 AM By: Kris Pung - Tab: 16 BD-32 22634

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PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 1/4/2008	

DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
DRAWN -	REVISED - A. ABBAS 03-21-97
CHECKED -	REVISED - M. GOMEZ 04-06-01
DATE - 06-13-90	REVISED - R. BORC 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BUTT JOINT AND HMA TAPER DETAILS</b>	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2319	17-00019-00-RS	KANE	16	16
BD400-05 B032		CONTRACT NO. 61E64		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT - STP				

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