

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	1
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 63267				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

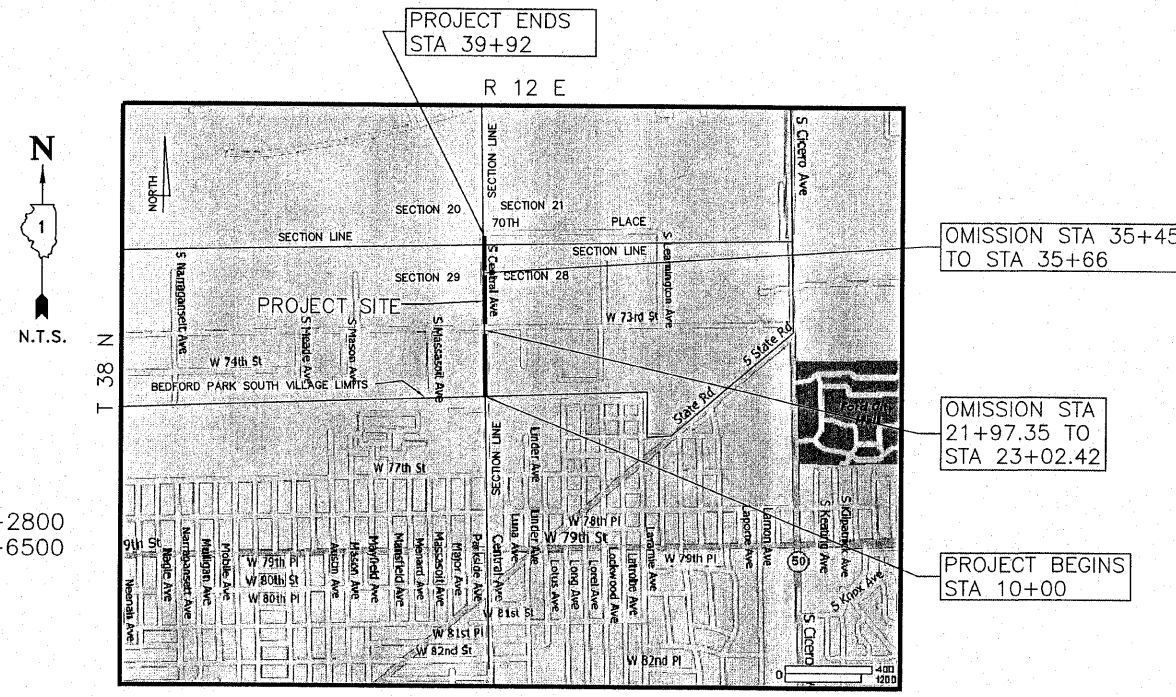
**FAU RTE.2796 (CENTRAL AVENUE)
HOT-MIX ASPHALT RECONSTRUCTION
70th PLACE TO VILLAGE BOUNDARY (RR TRACKS)
SECTION NO. 09-00031-00-PV
PROJECT NO: ARA-9003(387)
JOB NO: C-91-774-09
VILLAGE OF BEDFORD PARK
COOK COUNTY**

INDEX TO SHEETS:

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES & LEGEND
3.	SUMMARY OF QUANTITIES & STRUCTURAL DESIGN INFO
4.	TYPICAL SECTIONS
5-10.	PLAN & PROFILE SHEETS
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12.	PAVEMENT MARKING PLAN
13.	DISTRICT 1 DETAIL-TC10-TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS
14.	DISTRICT 1 DETAIL-TC13-TYPICAL PAVEMENT MARKINGS
15.	DISTRICT 1 DETAIL-BD24-CURB OR CURB AND GUTTER R&R
16.	DISTRICT 1 DETAIL-BD32-BUTT JOINT AND HMA TAPER DETAIL

HIGHWAY STANDARDS:

000001-05:	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05:	SIDEWALK RAMPS ACCESSIBLE TO THE HANDICAPPED
602401-02:	MANHOLE, TYPE A
602301-02:	INLET, TYPE A
602001-01:	CATCH BASIN, TYPE A
604001-03:	FRAMES & LIDS, TYPE 1
606001-04:	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
701901-01:	TRAFFIC CONTROL DEVICES
780001-02:	TYPICAL PAVEMENT MARKINGS



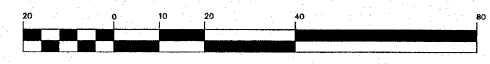
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 8/31/2009
[Signature]
VILLAGE OF BEDFORD PARK, PRESIDENT

PASSED SEPTEMBER 1, 2009
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW SEPTEMBER 1, 2009
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS/REGION 1 ENGINEER

MFI FIELD ENGINEER: MELCHOR MANGOBA 1-847-705-4408
CONSULTANT: HOFFERLE BUTLER ENGINEERING, INC. 1-708-599-8980



J.U.L.I.E.
JOINT UTILITY LOCATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 63267

GROSS LENGTH OF PROJECT 2,992 FEET (0.57 MILES)
NET LENGTH OF PROJECT 2,867 FEET (0.54 MILES)

hbe Hoefflerle-Butler Engineering, Inc.
Consulting Civil Engineers - Land Surveyors
PROFESSIONAL DESIGN FIRM LICENSE NO. 194-00019
874 S. ROBERTS ROAD HICKORY HILLS, ILLINOIS 60457
(708) 599-8980 FAX (708) 599-8790

STEPHEN A. LEIBER
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
[Signature]
3/21/09
DATE

EXPIRES 11-30-09
(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)

FILE 0039-07-315

GENERAL NOTES

CONSTRUCTION WILL BE PERFORMED IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007, ETC.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER OF ALL EXISTING 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 CONTRACTORS 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 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 OR THE VILLAGE. THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)

STORM SEWER

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR CATCH BASINS TO BE ADJUSTED.

ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE VILLAGE.

RESTORATION

CONTRACTOR IS TO RESTORE ALL UNPAVED AREAS DAMAGED DURING CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION INCLUDING THE FINE GRADING AND SODDING OF AREAS WITHIN EASEMENTS AND RIGHTS-OF-WAY.

STAGING

NO FORMAL STAGING OF TRAFFIC FLOW WILL BE REQUIRED PLEASE REFER TO TRAFFIC CONTROL PLAN FOR GUIDE TO ALLOWABLE TRAFFIC MOVEMENT.

MISCELLANEOUS

ACCESS: THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION, THE COST TO PROVIDE ACCESS SHALL BE PAID FOR AS AGGREGATE SURFACE COURSE, TYPE B.

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

ALL SAWCUTTING SHALL BE INCLUDED IN THE UNIT OF COST OF REMOVAL ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) TYPE III BARRICADES SHALL HAVE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.

ANY EXISTING PAVEMENT DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION SHALL BE REPLACED/REPAIRED BY THE CONTRACTOR AT HIS/HERS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER WITH NO ADDITIONAL COMPENSATION TO THE CONTRACTOR.

STAKING

THE CONTRACTOR SHALL TAKE CARE TO PROTECT AND PRESERVE ALL STAKING AND MARKING DURING CONSTRUCTION. CONTINUOUS DESTRUCTION OF STAKES AS A RESULT OF CARELESSNESS MAY RESULT IN DAMAGES.

PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED, IF, IN THE ENGINEER'S OPINION, THE WORK IS NOT REQUIRED, THE ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE BITUMINOUS MATERIAL (PRIME COAT) QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.30 GAL/S.Y.






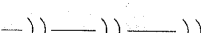





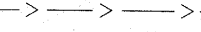



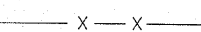










HOEFFERLE-BUTLER ENGINEERING SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK. THEY SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE IF CONSTRUCTION STAKING IS REQUIRED.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	2
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				

ABBREVIATIONS

BBOX	BUFFALO BOX (WATER SHUT OFF)	P.C.C.	PORTLAND CEMENT CONCRETE
B-B	BACK TO BACK OF CURB	PVC	POLYVINYL CHLORIDE
BM	BENCH MARK	PP	POWER POLE
CB	CATCH BASIN	R.O.W.	RIGHT OF WAY
CO	CLEANOUT	STA	STATION
DIP	DUCTILE IRON PIPE	SAN	SANITARY
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
EOB	EDGE OF BRICK	TYP	TYPICAL
EOC	EDGE OF CONCRETE	VCP	VITRIFIED CLAY PIPE
EOG	EDGE OF GRAVEL	WDF	WOOD FENCE
EOP	EDGE OF PAVEMENT	WSO	WATER SHUT OFF
F-F	FACE TO FACE OF CURB	WV	WATER VALVE
F.H.	FIRE HYDRANT	WVV	WATER VALVE VAULT
FES	FLARED END SECTION		
G	GAS		
INV	INVERT ELEVATION		
IP	IRON PIPE		
IN	INLET		
MFP	METAL FENCE POST		
MH	MANHOLE		

LEGEND

EXISTING 4' DIA. STORM M.H.		EXISTING B-BOX	
EXISTING 4' DIA. CATCH BASIN		EXISTING GAS VALVE	
EXISTING 2' DIA. STORM INLET		EXISTING COMBINED SEWER	
EXISTING STORM CURB INLET		EXISTING STORM SEWER	
EXISTING 2' DIA. CATCH BASIN		EXISTING SANITARY SEWER	
EXISTING BEEHIVE		EXISTING WATERMAIN	
EXISTING SANITARY MANHOLE		EXISTING FENCE	
EXISTING STREET LIGHT		EXISTING GAS MAIN	
EXISTING POWER POLE		EXISTING TELEPHONE LINE	
EXISTING FIRE HYDRANT		EXISTING ELECTRIC LINE	
EXISTING WATER VALVE IN VAULT		PROPOSED PAVEMENT	
EXISTING WATER VALVE IN BOX		PROPOSED CONCRETE	
		DETECTIBLE WARNINGS	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF BEDFORD PARK CENTRAL AVENUE RECONSTRUCTION 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
NAME	DATE	
JMH PER IDOT REVIEW	08/25/09	GENERAL NOTES AND LEGEND
JMH PER IDOT REVIEW	08/31/09	
		SCALE: HORIZ. N.T.S. DATE: 07/16/09
		DRAWN BY: JMH CHECKED BY: SAL

SUMMARY OF QUANTITIES

1000

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	3
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				

ITEM No.	ITEMS	UNITS	QTY.
20200410	EARTH EXCAVATION (SPECIAL)	C.Y.	977
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	C.Y.	150
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	C.Y.	150
21101615	TOPSOIL FURNISH AND PLACE, 4"	S.Y.	3250
25000400	NITROGEN FERTILIZER NUTRIENT	LBS.	60
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	LBS.	60
25000600	POTASSIUM FERTILIZER NUTRIENT	LBS.	60
25200100	SODDING	S.Y.	3250
35501300	HOT-MIX ASPHALT BASE COURSE, 4"	S.Y.	38.9
35800100	PREPARATION OF BASE	S.Y.	8796
35800200	AGGREGATE BASE REPAIR	TON	2000
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	50
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	2693
40600982	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT	S.Y.	89
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1257
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIXTURE 'C', N50	TON	6
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIXTURE 'D', N50	TON	1007
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"	S.Y.	202
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	S.F.	11,313
42400410	PORTLAND CEMENT CONCRETE SIDEWALK, 8"	S.F.	294
42400800	DETECTABLE WARNINGS	S.F.	290
44000198	HOT-MIX ASPHALT SURFACE REMOVAL- VARIABLE DEPTH	S.Y.	8796
44000200	DRIVEWAY PAVEMENT REMOVAL	S.Y.	277
44000600	SIDEWALK REMOVAL	S.F.	1015
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FT	950
60202705	CATCH BASINS, TYPE A, 4'-DIAMETER WITH SALVAGED FRAME AND GRATE	EA	4
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EA	2
60250200	CATCH BASINS TO BE ADJUSTED	EA	1
60255500	MANHOLES TO BE ADJUSTED	EA	3
60255600	MANHOLES TO BE ADJUSTED (SPECIAL)	EA	6
60257900	MANHOLES TO BE RECONSTRUCTED	EA	2
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EA	2
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EA	12
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EA	4
60500040	REMOVING MANHOLES	EA	1
60500050	REMOVING CATCH BASINS	EA	4
60500060	REMOVING INLETS	EA	2
67100100	MOBILIZATION	L.S.	1
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L.S.	1
* 78000100	THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS	S.F.	263.8
* 78000200	THERMOPLASTIC PAVEMENT MARKING, LINE -4"	FT.	663
* 78000400	THERMOPLASTIC PAVEMENT MARKING, LINE - 6"	FT.	456
* 78000650	THERMOPLASTIC PAVEMENT MARKING, LINE -24"	FT.	192.5
X0322919	CLEAN EXISTING STRUCTURES	EA	5
Z0018300	DRAINAGE STRUCTURE REPAIR	EA	6
XX005751	MANHOLE REHABILITATION	FOOT	4
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L.S.	1

* INDICATES SPECIALTY ITEM

HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART

MIXTURE TYPE	AIR VOIDS AT Ndes
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N50; 2"	4% AT 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50	4% AT 50 GYR
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N50, (IL 9.5mm); 2"	4% AT 50 GYR
HOT-MIX ASPHALT BASE COURSE (HOT-MIX ASPHALT BINDER IL 19mm); 6"	4% AT 50 GYR

THE UNIT WEIGHT 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 70-22' AND FOR NON-POLYMERIZED HMA THE 'AC TYPE' SHALL BE 'PG 64-22' UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR 'PERCENT OF RAP' SEE DISTRICT ONE SPECIAL PROVISIONS.

STRUCTURAL DESIGN INFORMATION

<p>SOUTH OF 73rd</p> <p>STRUCTURAL DESIGN TRAFFIC: YEAR 2020</p> <p style="text-align: center;">PV= 6175 SU= 260 MU= 65</p> <p>ROAD/STREET CLASSIFICATION: CLASS II</p> <p>PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:</p> <p style="text-align: center;">P= 50 S= 50 M= 50</p> <p>TRAFFIC FACTOR: ACTUAL T.F.= 0.55 MINIMUM T.F.= N/A</p> <p>PG GRADE: BINDER= 64-22 SURFACE= 64-22</p> <p style="text-align: center;">IBR= 3.0 SSR= FAIR</p>	<p>NORTH OF 73rd</p> <p>STRUCTURAL DESIGN TRAFFIC: YEAR 2020</p> <p style="text-align: center;">PV= 2408 SU= 168 MU= 224</p> <p>ROAD/STREET CLASSIFICATION: CLASS II</p> <p>PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:</p> <p style="text-align: center;">P= 50 S= 50 M= 50</p> <p>TRAFFIC FACTOR: ACTUAL T.F.= 1.055 MINIMUM T.F.= N/A</p> <p>PG GRADE: BINDER= 64-22 SURFACE= 64-22</p> <p style="text-align: center;">IBR= 3.0 SSR= FAIR</p>
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Hoeffler-Butler Engineering, Inc.
 Consulting Civil Engineers - Land Surveyors
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 8714 S. ROBERTS ROAD, HICKORY HILLS, ILLINOIS 60577
 (708) 599-8980 FAX (708) 599-8790

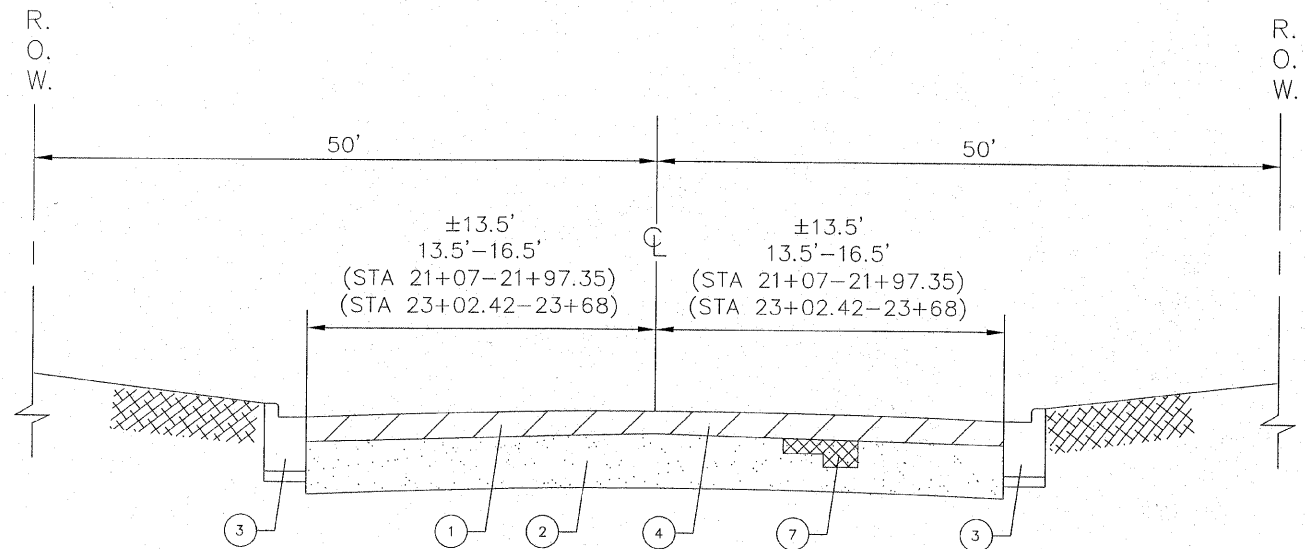
REVISIONS	
NAME	DATE
JMH PER IDOT REVIEW	08/29/09
JMH PER IDOT REVIEW	09/31/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF BEDFORD PARK
 CENTRAL AVENUE RECONSTRUCTION
 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
GENERAL NOTES AND SUMMARY OF QUANTITIES
 SCALE: HORIZ: N.T.S.
 DATE: 07/16/09
 DRAWN BY: JMH
 CHECKED BY: SAL

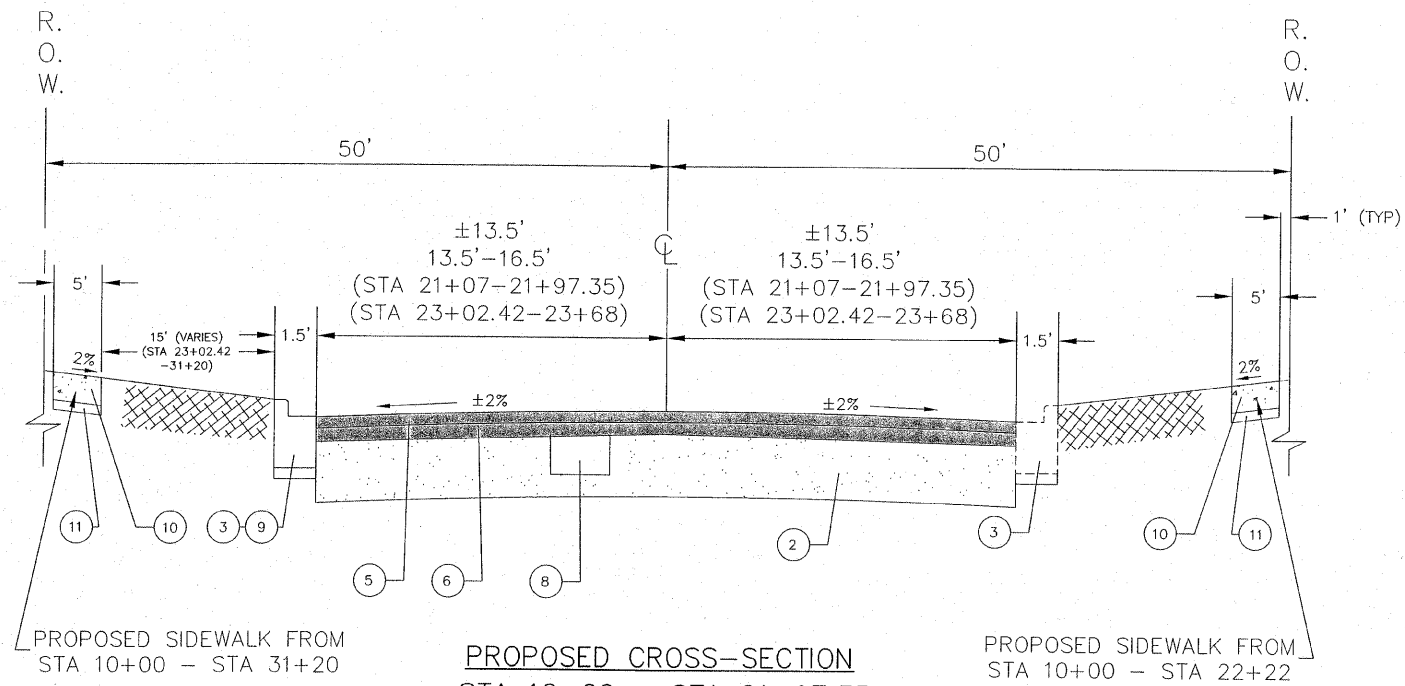
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- | | |
|------------------------------------------------------------|-----------------------------------------------------------|
| ① EX. BIT. SURFACE, ±4" | ⑦ SPECIAL EXCAVATION (WHERE DIRECTED BY ENGINEER) |
| ② EX. AGGREGATE BASE, ±9" | ⑧ AGGREGATE BASE REPAIR (WHERE DIRECTED BY ENGINEER) |
| ③ EX. CURB & GUTTER, TY B6.12 | ⑨ COMB. CURB & GUTTER REPLACEMENT (WHERE MARKED IN FIELD) |
| ④ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | ⑩ PROPOSED P.C.C. SIDEWALK, 5" |
| ⑤ PROP. HOT-MIX ASPHALT SURF. CSE, MIX 'D', N50, 2" | ⑪ PROPOSED AGGREGATE BASE, 2" |

NOTE: CROSS-HATCHED ITEMS ARE TO BE REMOVED



EXISTING CROSS-SECTION
 STA 10+00 - STA 21+97.35
 STA 23+02.42 - STA 39+16



PROPOSED CROSS-SECTION
 STA 10+00 - STA 21+97.35
 STA 23+02.42 - STA 39+16

hbe Hoefler-Butler Engineering, Inc.
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 PROFESSIONAL DESIGN FIRM LICENSE NO. 084-00889
 674 S. ROBERTS ROAD HICKORY HILLS, ILLINOIS 60457
 (708) 599-9986 FAX (708) 599-8798

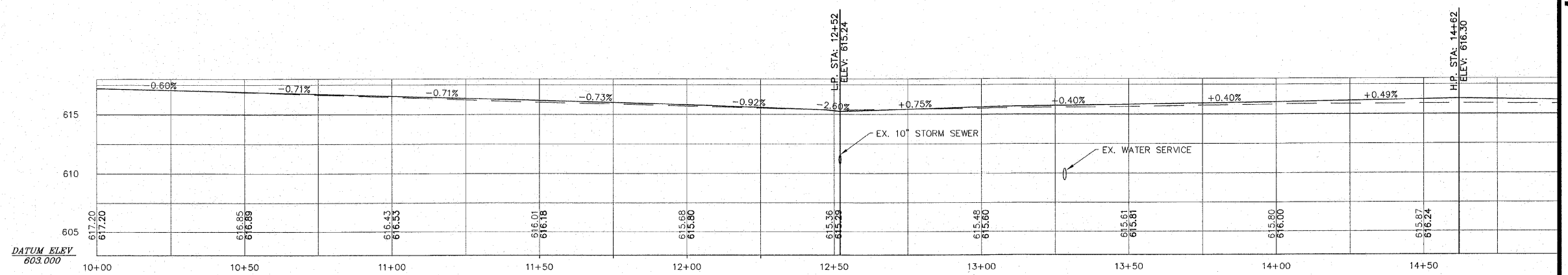
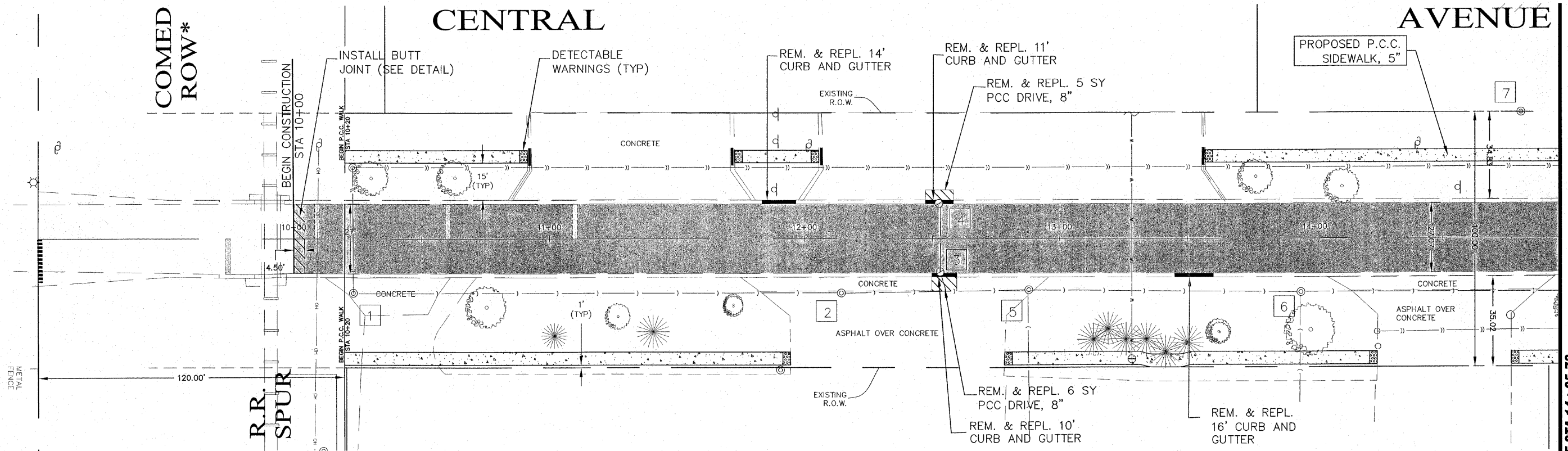
REVISIONS		DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF BEDFORD PARK CENTRAL AVENUE RECONSTRUCTION 70th PLACE TO VILLAGE LIMITS (RR TRACKS) TYPICAL CROSS SECTIONS STA. 10+00 - STA. 39+92
NO.	NAME		
1	JMH PER IDOT REVIEW	08/25/09	SCALE: N.T.S. HORIZ. DATE: 07/16/09 DRAWN BY: JMH CHECKED BY: SAL

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CONTRACT NO. 63267				



CENTRAL

AVENUE



hbe Hoeffler-Butler Engineering, Inc.
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 PROFESSIONAL DESIGN FIRM LICENSE NO. 094-00089
 8774 S. ROBERTS ROAD - HICKORY HILLS, ILLINOIS 60457
 (708) 599-6980 FAX (708) 599-6790

*VILLAGE HAS UNDERLYING EASEMENT THROUGH COMED R.O.W.
 RAILROAD SPUR WITHIN COMED R.O.W. (OWNS NO R.O.W.)

REVISIONS	NAME	DATE
JMH PER IDOT REVIEW		08/25/09
JMH PER IDOT REVIEW		08/31/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF BEDFORD PARK
 CENTRAL AVENUE RECONSTRUCTION
 70th PLACE TO VILLAGE LIMITS (RR TRACKS)

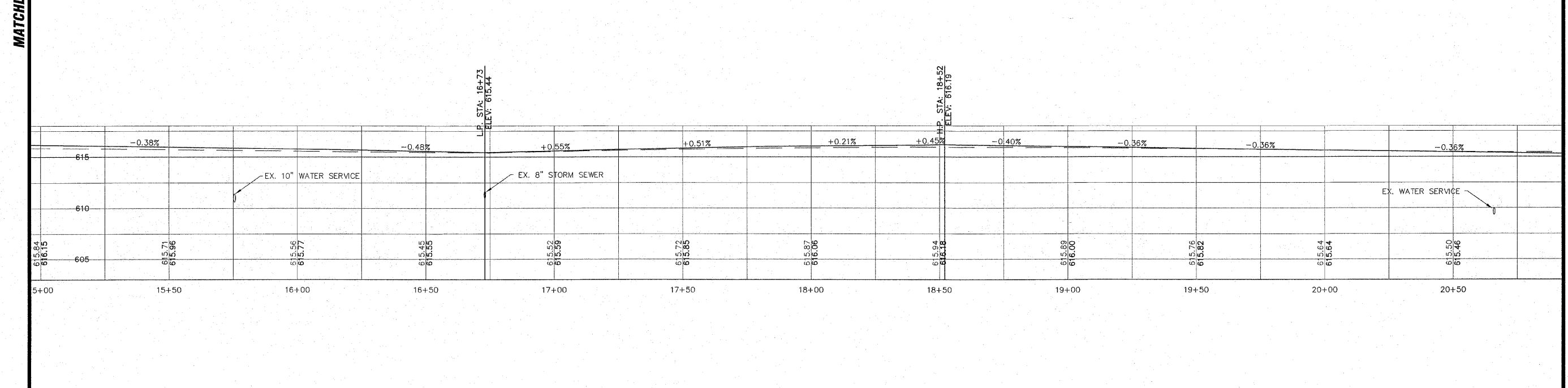
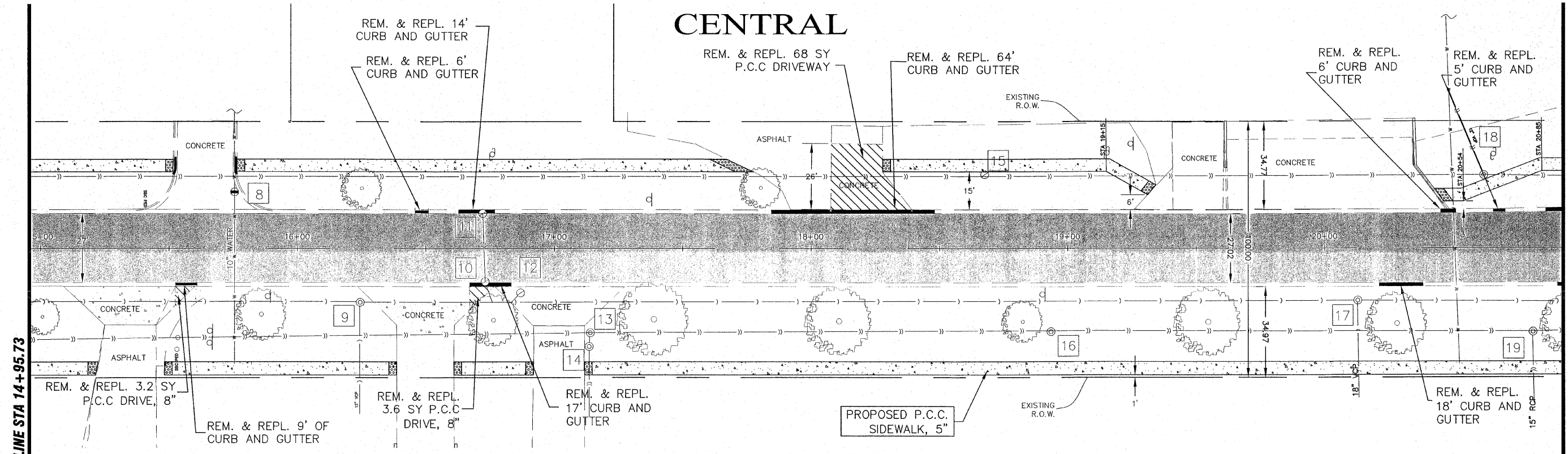
SCALE:
 HORIZ: 1"=20'
 VERT: 1"=5'
 DATE: 07/16/09

DRAWN BY: JMH
 CHECKED BY: SAL

MATCHLINE STA 14+95.73

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	6
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				

CENTRAL



hbe **Hoefler-Butler Engineering, Inc.**
 Consulting Civil Engineers • Land Surveyors
 PROFESSIONAL DESIGN FIRM LICENSE NO. 04-00089
 874 S. ROBERTS ROAD • HICKORY HILLS, ILLINOIS 60457
 (708) 539-0980 FAX (708) 539-0790

MATCHLINE STA 14+95.73

MATCHLINE STA 20+92.68

REVISIONS		DATE
NO.	NAME	
1	JMH PER DOT REVIEW	08/25/09
2	JMH PER DOT REVIEW	08/31/09


ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF BEDFORD PARK
 CENTRAL AVENUE RECONSTRUCTION
 70th PLACE TO VILLAGE LIMITS (RR TRACKS)

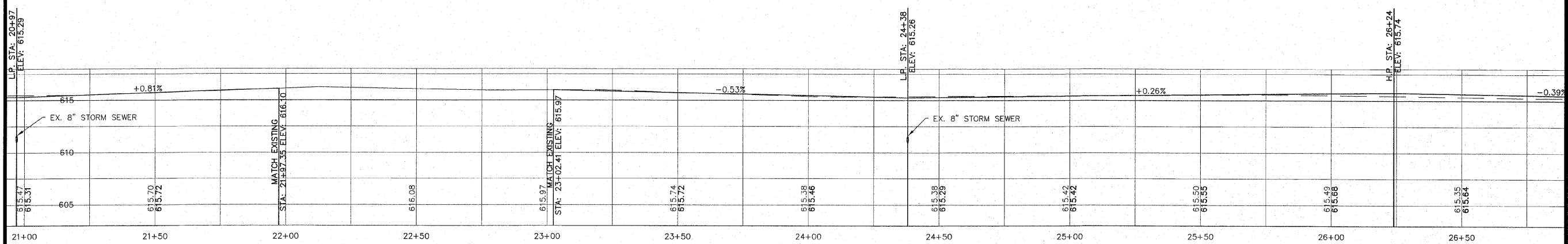
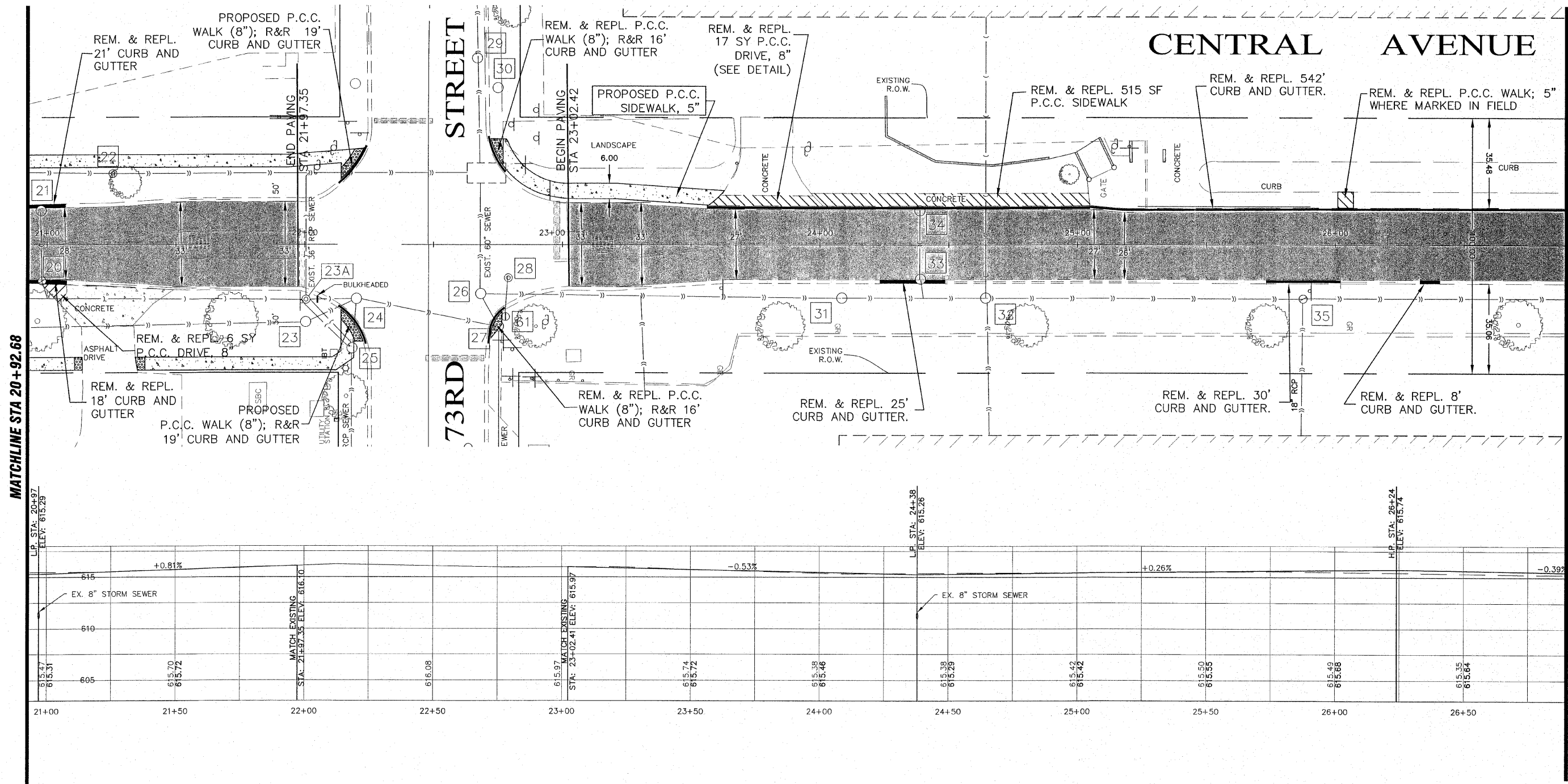
SCALE:
 HORIZ. 1"=20'
 VERT. 1"=2'
 DATE: 07/16/09

DRAWN BY: JMH
 CHECKED BY: SAL

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	7
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				




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 (708) 599-8980 FAX (708) 599-8778



REVISIONS		DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF BEDFORD PARK CENTRAL AVENUE RECONSTRUCTION 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
NO.	NAME		
1	JMH PER IDOT REVIEW	08/25/09	SCALE: HORIZ: 1"=20' VERT: 1"=2' DATE: 07/16/09

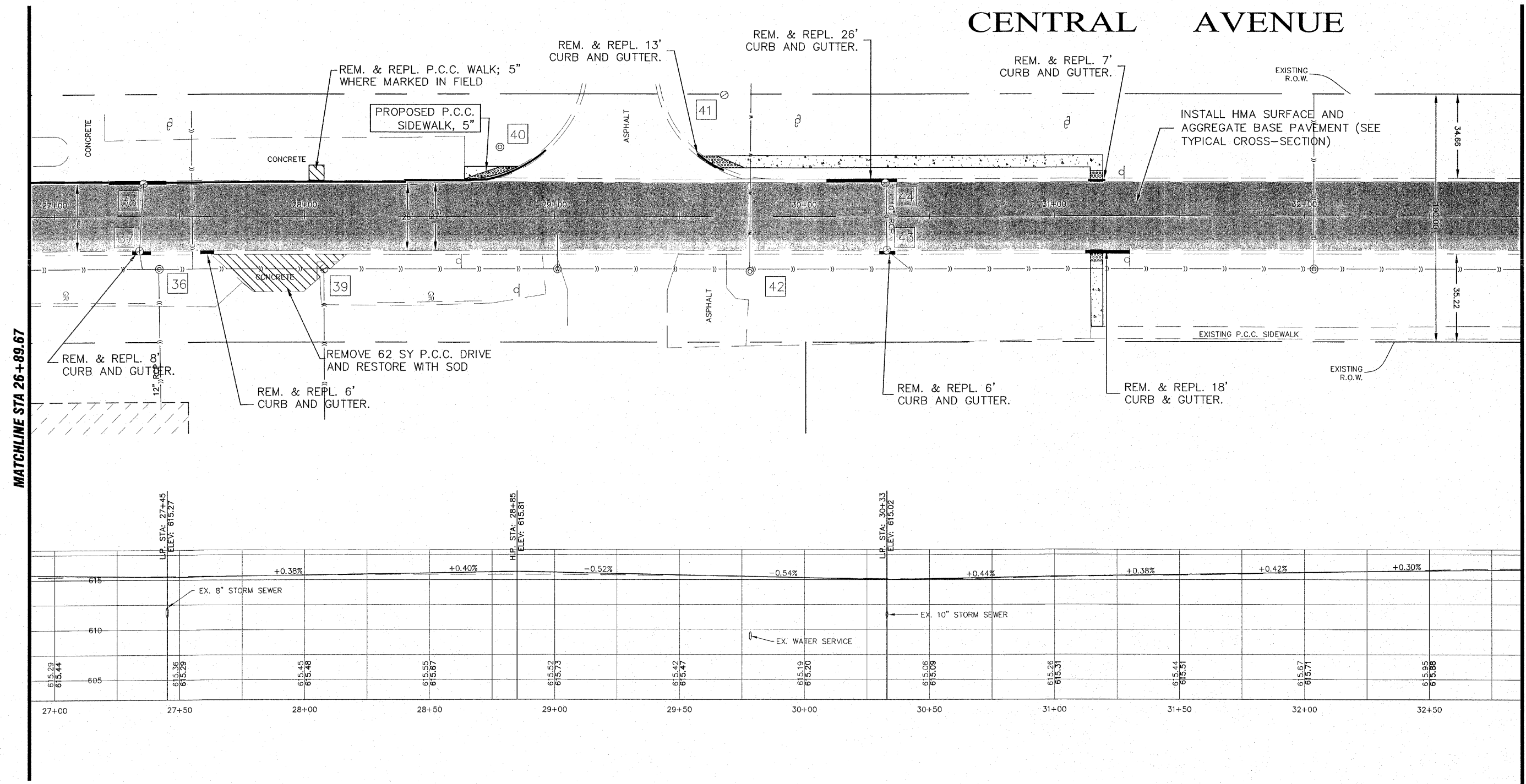
DRAWN BY: JMH
 CHECKED BY: SAL

MATCHLINE STA 26+89.67

REF: 05/16/09

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	8
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				

CENTRAL AVENUE



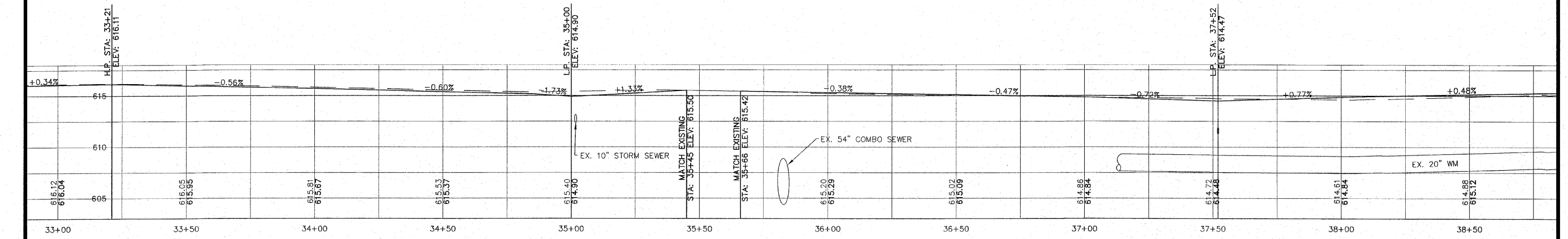
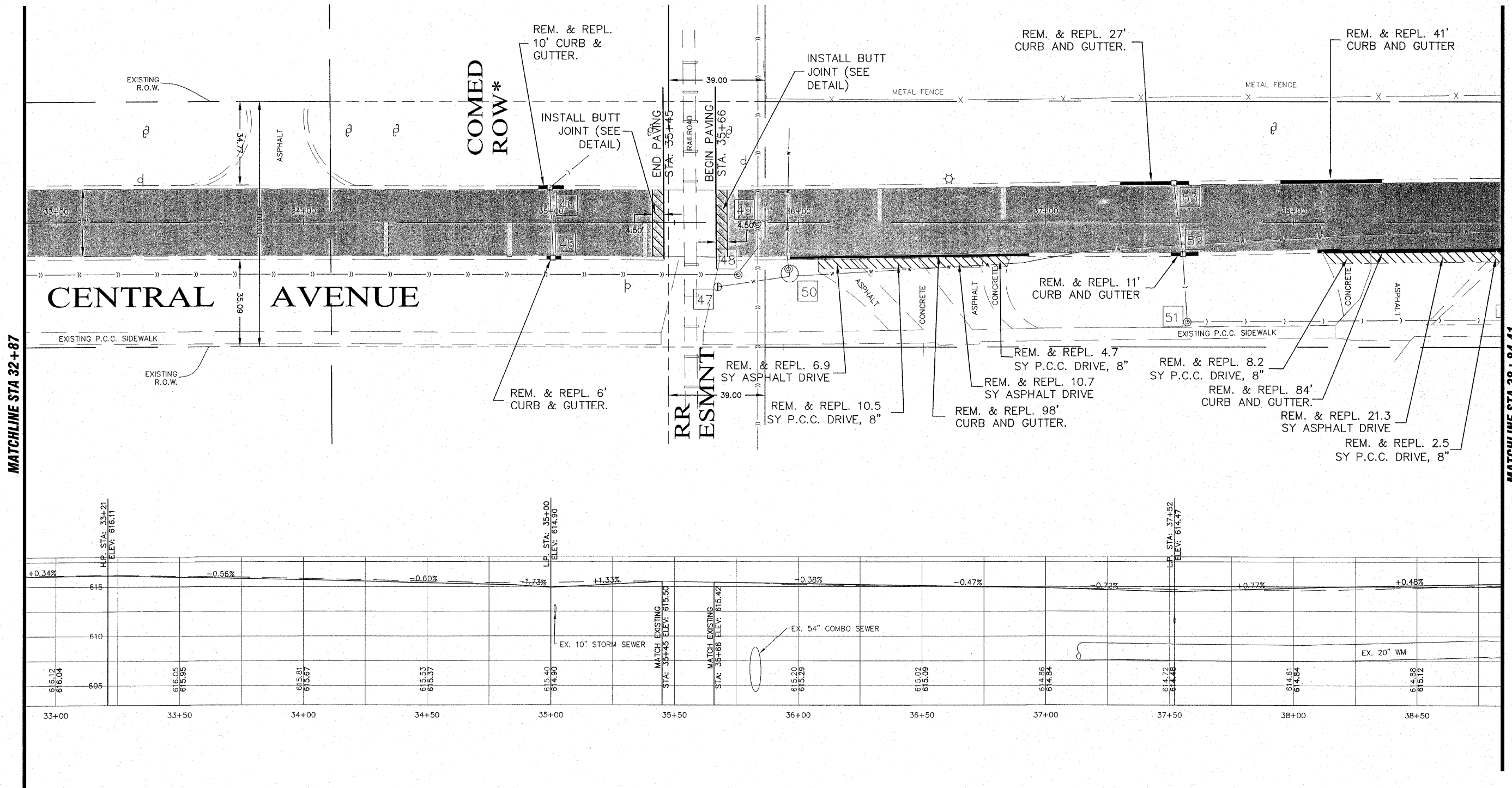
615	+0.38%		+0.40%		-0.52%		-0.54%		+0.44%		+0.38%		+0.42%		+0.30%	
610	EX. 8" STORM SEWER															
610	EX. 10" STORM SEWER															
610	EX. WATER SERVICE															
605	615.29 615.44	615.36 615.29	615.45 615.48	615.55 615.67	615.52 615.73	615.42 615.47	615.19 615.20	615.06 615.09	615.26 615.31	615.44 615.51	615.67 615.71	615.95 615.88				
	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00	32+50				

hbe **Hoefler-Butler Engineering, Inc.**
 Consulting Civil Engineers • Land Surveyors
 PROFESSIONAL DESIGN FIRM LICENSE NO. 094-00819
 8714 S. ROBERTS ROAD ROCKY HILLS, ILLINOIS 60457
 (708) 399-9980 FAX (708) 399-9776

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF BEDFORD PARK CENTRAL AVENUE RECONSTRUCTION 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
NAME	DATE	
JMH PER IDOT REVIEW	08/25/09	SCALE: HORIZ: 1"=20' VERT: 1"=2' DATE: 07/16/09

DRAWN BY: JMH
CHECKED BY: SAL

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	9
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63267				



hbe **Hoeffler-Butler Engineering, Inc.**
 Consulting Civil Engineers - Land Surveyors
 PROFESSIONAL DESIGN FIRM LICENSE NO. 184-008819
 8714 S. ROBERTS ROAD HOCKEY HILLS, ILLINOIS 60457
 (708) 599-8980 FAX (708) 599-8798

*VILLAGE HAS UNDERLYING EASEMENT THROUGH COMED R.O.W.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF BEDFORD PARK CENTRAL AVENUE RECONSTRUCTION 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
NAME	DATE	
JMH PER 1001 REVIEW	08/25/09	SCALE: HORIZ: 1"=20' VERT: 1"=2' DATE: 07/16/09

DRAWN BY: JMH
CHECKED BY: SAL

MATCHLINE STA 32+87

MATCHLINE STA 38+84.41

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	10
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				

CENTRAL AVENUE DRAINAGE STRUCTURE REPAIR SCHEDULE FOR NORTH OF 73RD STREET

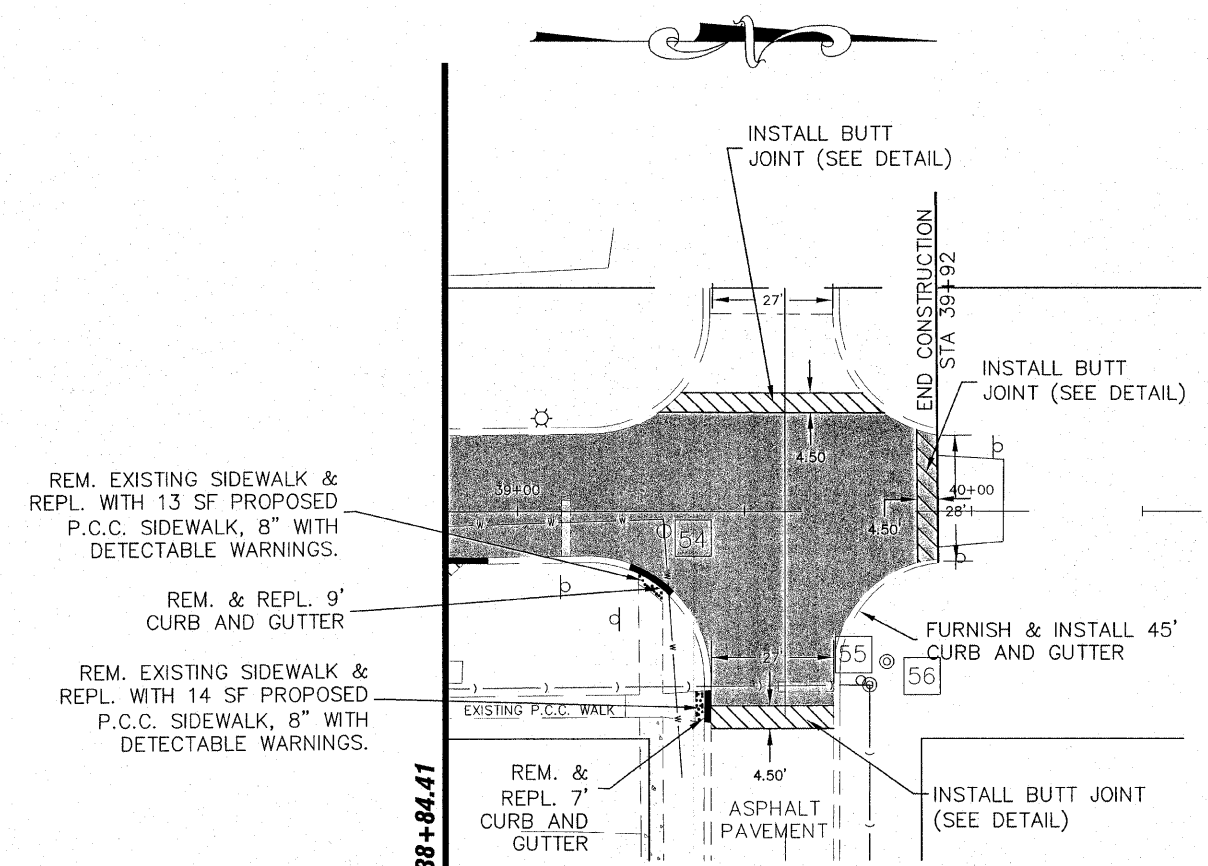
NUMBER	STRUCTURE TYPE	REMOVAL OF FRAME & RINGS	REMOVAL OF PIPE	CLEAN OUT	REMOVE & REPLACE STRUCTURE	REMARKS
31	1415 MH					RESET FRAME AND SEAL DOWN
32	1413 MH					
33	1411 4' CB		X			FIX TRAP. SEE NOTE 3
34	1418 4' CB					SEE NOTE 3. CHANGE TO 7" FRAME. HYDRO SEAL BROKEN CONE
35	3689 CB					REALIGN FRAME, REMOVE TOP 2" OF MH. RESET WITH CONC RINGS.
36	3687 MH					REALIGN AND SEAL FRAME DOWN. REMOVE TOP OF PIPE, CREATE BENCH
37	3688 4' CB					REPLACE FRAME AND COVER. REMOVE 2 ROWS OF BRICK, REPLACE W/ CONC. RINGS. CUT OFF VCP CLOSE TO WALL
38	3689 CB					SEE NOTE 3
39	3704 CB					SEE NOTE 3. REMOVE TOP 3 ROWS OF TAPERED BLOCK. REPLACE W/ CONCRETE RINGS. MORTAR UP INVERT ON WEST SIDE. PATCH CONC. DRIVEWAY
40	4176 MH		X	X		
41	4172 CB			X		
42	3750 5' VV					
43	3782				X	
44	3761 CB				X	
45	3819 INLET				X	REMOVE AND REPLACE FRAME & GRATE. SEE NOTE 3
46	3818 INLET				X	REMOVE AND REPLACE FRAME & GRATE. SEE NOTE 3
47	3843 MH					REMOVE AND REPLACE FRAME & COVER. REPL. WITH NEW COVER STAMPED "WATER". SEAL FRAME TO STRUCTURE.
48	3846 MH					REALIGN FRAME AND SEAL FRAME DOWN.
49	3863 MH		X			
50	3862 MH					REMOVE AND REPLACE FRAME & COVER. REPL. WITH NEW COVER STAMPED "WATER". CHANGE TO 4" FRAME. SEAL FRAME TO FLAT TOP.
51	3916 MH					
52	3917 INLET				X	REMOVE AND REPLACE INLET AND FRAME & GRATE. SEE NOTE 3
53	3918 INLET					REMOVE AND REPLACE FRAME & GRATE.
54	3987 MH					
55	3985 MH					NO WORK REQUIRED
56	3986 MH				X	
57	4325 MH					NO WORK REQUIRED
58	4455 MH					
59	4454 CB					
60	1118 V V					
61	1120 V V					
62	4750 MH					INSTALL NEW INVERT. LOWER RIM TO MATCH EXISTING GRADE
63						
64						

CENTRAL AVENUE DRAINAGE STRUCTURE REPAIR SCHEDULE SOUTH OF 73RD STREET

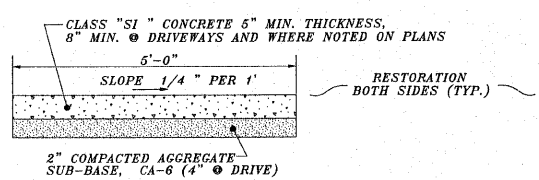
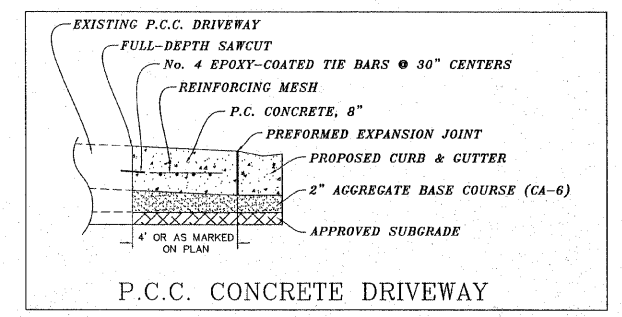
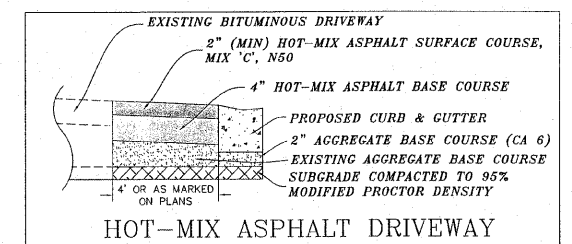
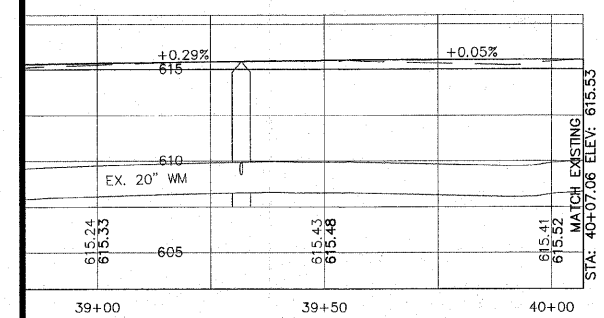
NUMBER	STRUCTURE TYPE	REMOVAL OF FRAME & RINGS	REMOVAL OF PIPE	CLEAN OUT	REMOVE & REPLACE STRUCTURE	REMARKS	SEE NOTE #3
1	3071 MH					TOP 3" OF STRUCTURE TO BE REMOVED & AND REPLACED. SEE ALSO NOTE 3	
2	3107 3' MH					1 ROW OF M.T. BLOCK AND 1 ROW OF BRICK TO BE REMOVED & REPLACED WITH PRECAST RINGS.	
3	3115 4' CB				X		
4	3282 4' CB				X		
5	3116 MH					REMOVE AND REPLACE ADJUSTMENT RINGS. SEE NOTE 3	
6	3139 4' MH					REMOVE AND REPLACE ADJUSTMENT RINGS. REALIGN FRAME & RINGS. FRAME AND RINGS TO BE SEALED DOWN	
7	3229 4' MH					SECURE & SEAL FRAME TO MANHOLE.	
8	3212 V V					REMOVE AND REPLACE FRAME & COVER. INSTALL NEW ADJ. RINGS. SEE NOTE 3	
9	3402 3' MH		X		X	REMOVED 1 ROW OF BLOCK & 3 ROWS OF BRICK AND REPLACED WITH PRECAST RINGS. PATCH WALLS	
10	3477 4' CB					SEE NOTE #3. REMOVED COMMON BRICK AND REPLACE WITH CONCRETE BRICK. PATCH WALLS	
11	3504 4' CB						
12	3478 CB					SEE NOTE #3	
13	3465 4' MH			X		SECURE & SEAL FRAME TO MANHOLE. SWITCH TO 8" FRAME. PATCH 18" RCP TO EAST AT WALL	
14	3466 MH						
15	3534 CB					LOWER EXISTING FRAME. MATCH EXISTING GRADE. INSTALL PCC ADJUSTMENT RINGS	
16	3445						
17	3433 3' MH			X		REMOVAL CONCRETE BLOCK JOINTS	
18	3561 MH					REMOVE ROW OF COMMON BRICK. REPAIR WITH CONCRETE ADJUSTMENT RING	
19	3426 4' MH					RESET FRAME AND SEAL DOWN	
20	3416 4' CB				X	NEEDS A TRAP	
21	1421 CB					RESET FRAME AND SEAL DOWN	
22	3585 MH					REMOVE ROW OF COMMON BRICK. REPAIR WITH CONCRETE ADJUSTMENT RING. RESET FRAME AND SEAL DOWN. PROVIDE CEMENTITIOUS LINER 10.2-FOOT DEEP.	
23	1148 5' CB					RESET FRAME AND SEAL DOWN	
23A	MH					RAISE FRAME AND COVER	
24	1077 3' CB					PROVIDE CEMENTITIOUS LINER 10.2-FOOT DEEP.	
25	1147 MH					RESET FRAME AND SEAL DOWN	
26	1037 5' MH					PROVIDE CEMENTITIOUS LINER 10.2-FOOT DEEP. INSTALL INVERT. TERMINATION MH FOR 12-INCH SANITARY FORCE MAIN	
27	1119 5' MH					NO WORK REQUIRED	
28	3602 V V			X		RESET FRAME AND SEAL DOWN	
29	1087 CB					NOT A PART OF THIS PROJECT	
30						NOT A PART OF THIS PROJECT	

- NOTES:
- FURNISH AND INSTALL E.J. 1022 TYPE FRAME AND GASKETED SOLID COVER
 - FURNISH AND INSTALL E.J. 1022 TYPE FRAME AND OPEN COVER.
 - ALL ADJUSTMENT RINGS WITHIN PAVED AREAS TO BE RUBBERIZED. MAXIMUM ADJUSTMENT FOR RUBBER RINGS TO BE 3". ADDITIONAL ADJUSTMENTS IN HEIGHT SHALL BE MADE WITH PCC RINGS FOR A TOTAL ADJUSTMENT HEIGHT OF 8-INCHES. REMOVE AND REPLACE EXISTING ADJUSTMENT RINGS.

- NOTES:
- FURNISH AND INSTALL E.J. 1022 TYPE FRAME AND GASKETED SOLID COVER
 - FURNISH AND INSTALL E.J. 1022 TYPE FRAME AND OPEN COVER.
 - ALL ADJUSTMENT RINGS WITHIN PAVED AREAS TO BE RUBBERIZED. MAXIMUM ADJUSTMENT FOR RUBBER RINGS TO BE 3". ADDITIONAL ADJUSTMENTS IN HEIGHT SHALL BE MADE WITH PCC RINGS FOR A TOTAL ADJUSTMENT HEIGHT OF 8-INCHES. REMOVE AND REPLACE EXISTING ADJUSTMENT RINGS.



MATCHLINE STA 38+84.41



- NOTES:
- MAX. LONGITUDINAL SLOPE SHALL NOT EXCEED 8% (12:1).
 - AGGREGATE SUB-BASE COURSE SHALL BE MECHANICALLY COMPACTED.
 - SURFACE SHALL HAVE A LIGHT BROOM FINISH, WITH 1/2" DEEP FALSE JOINTS 5' ON CENTER.
 - 1/2" PREFORMED EXPANSION JOINTS 30' ON CENTER.
 - ALL SIDEWALK SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.
 - ALL AREAS ADJACENT TO SIDEWALK WILL BE RESTORED TO ORIGINAL CONDITION.

P.C.C. CONCRETE SIDEWALK

REVISIONS			ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF BEDFORD PARK CENTRAL AVENUE RECONSTRUCTION 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
NO.	DATE	BY	
1	08/25/09	JMH	SCALE: HORIZ: 1"=20' VERT: 1"=2' DATE: 07/16/09
2			

hbe Hoeffler-Butler Engineering, Inc.
Consulting Civil Engineers - Land Surveyors
PROFESSIONAL DESIGN FIRM LICENSE NO. 084-00889
674 S. ROBERTS ROAD HICKORY HILLS, ILLINOIS 60457
CHgo 599-8988 FAX CHgo 599-8979

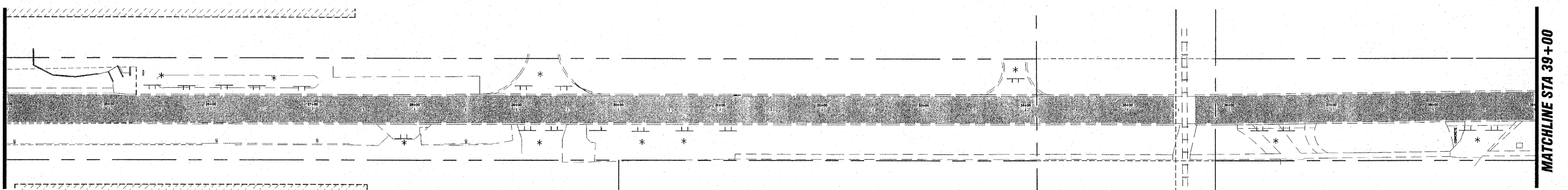
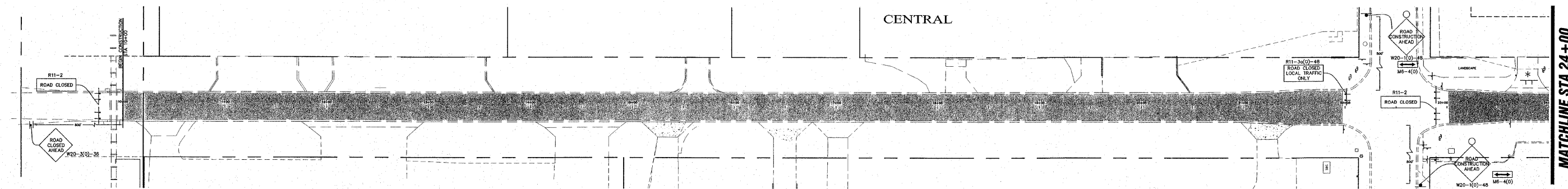
HBE-08/07/09-513

DRAWN BY: JMH
CHECKED BY: SAL

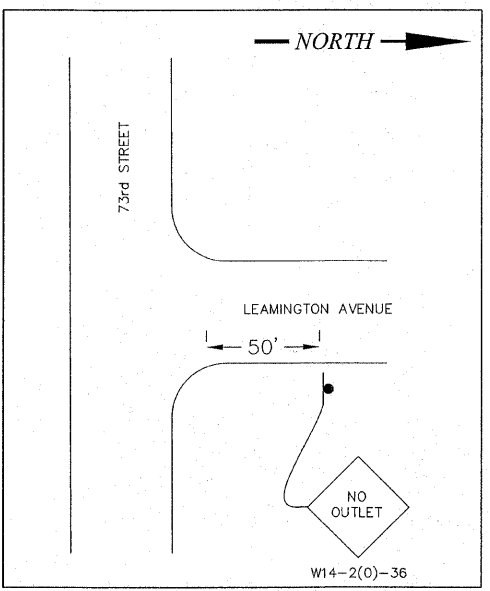
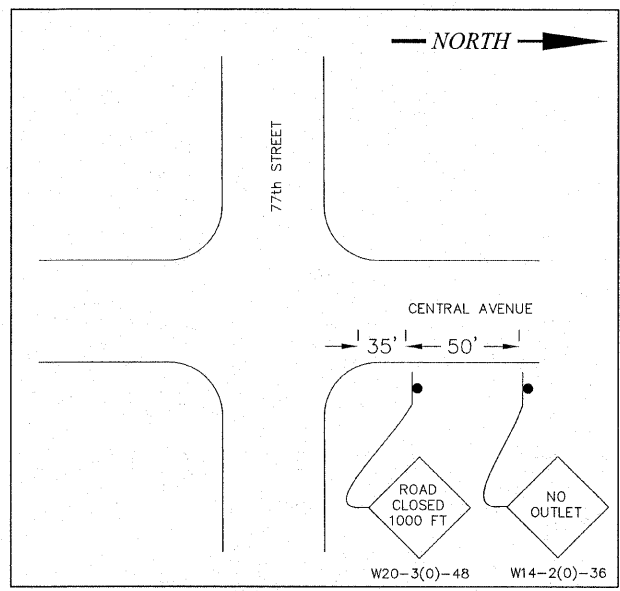
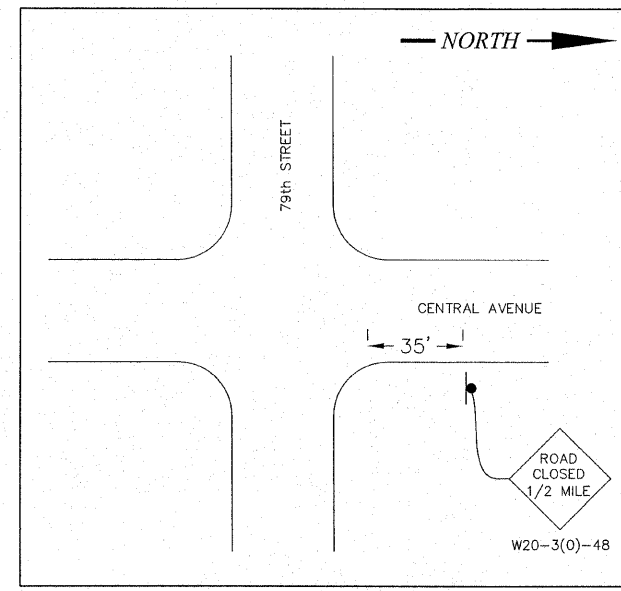
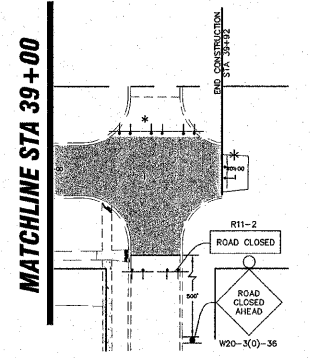
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	11
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				



CENTRAL



hbe **Hoefler-Butler Engineering, Inc.**
 Consulting Civil Engineers - Land Surveyors
 PROFESSIONAL DESIGN FIRM LICENSE NO. 04-00089
 874 S. ROBERTS ROAD - HICKORY HILLS, ILLINOIS 60437
 (708) 359-0800 FAX (708) 359-0790



NOTES:
 1) CONTRACTOR RESPONSIBLE FOR BARRICADING DRIVEWAY ENTRANCES IF NECESSARY (WHERE MARKED *)
 2) CENTRAL AVENUE SOUTH OF 73rd STREET SHALL BE KEPT OPEN TO LOCAL TRAFFIC

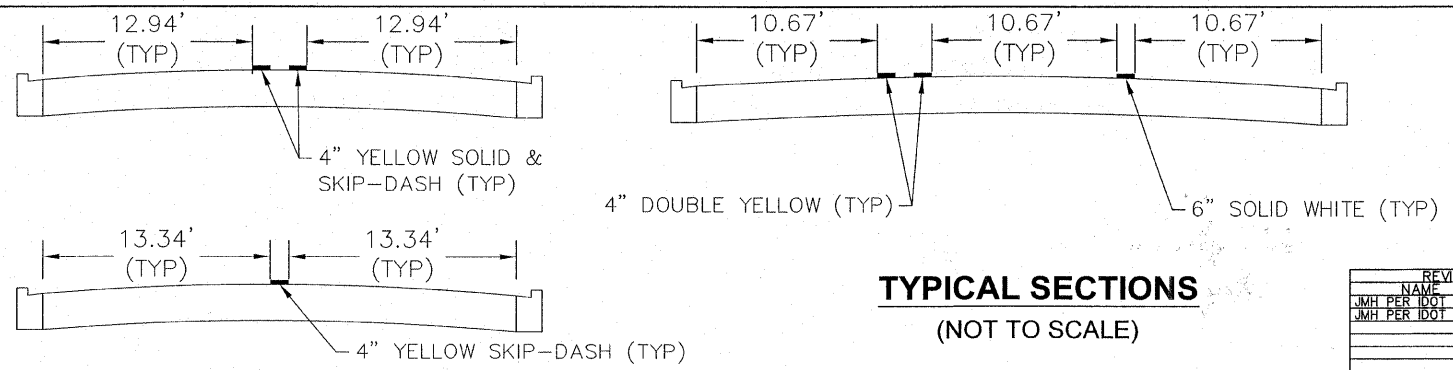
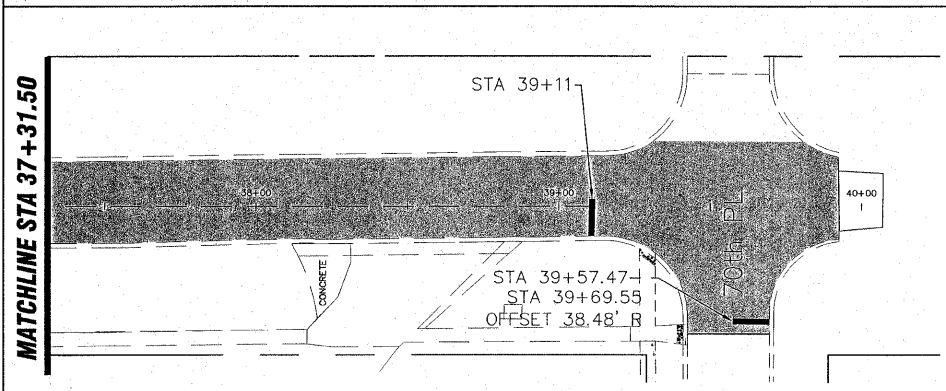
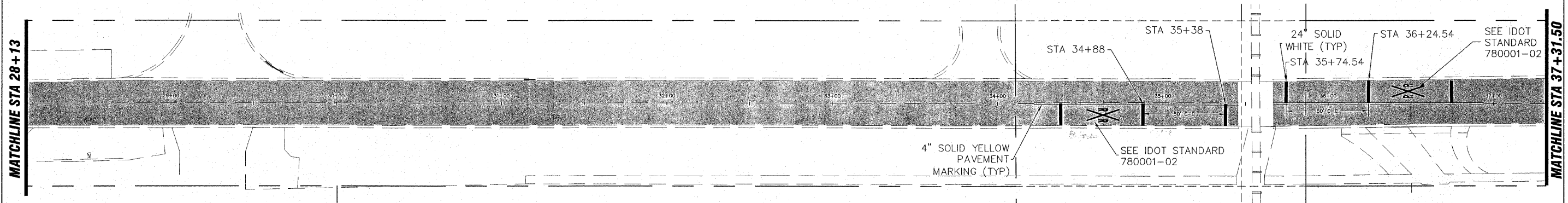
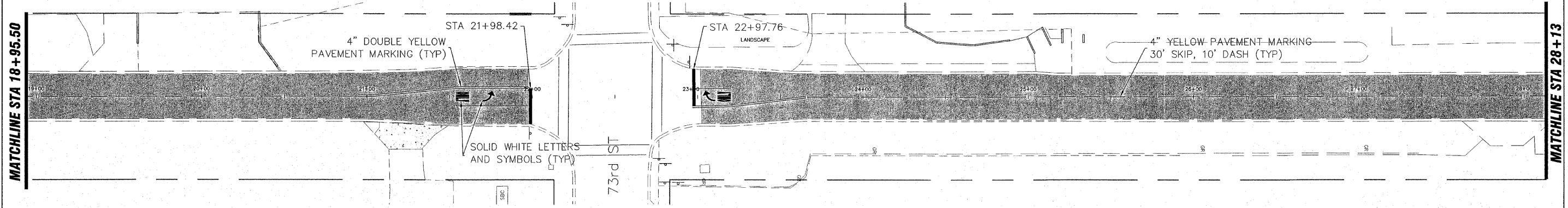
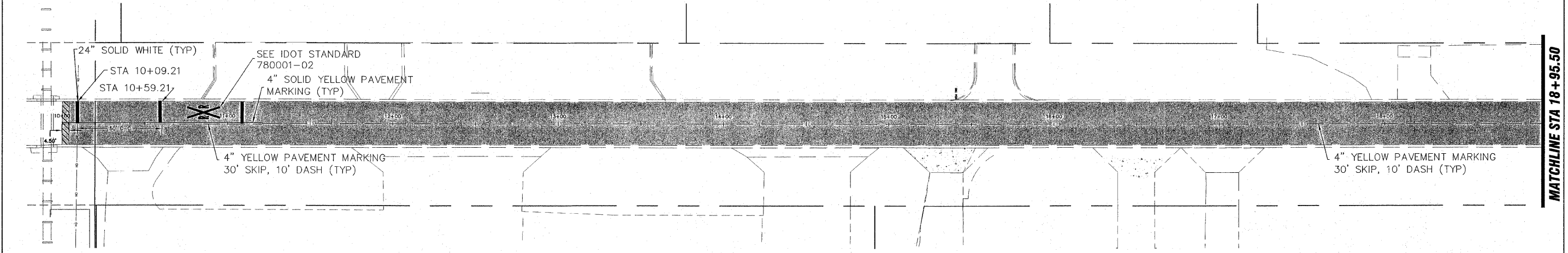
- LEGEND**
- WORK AREA
 - SIGN ON PORTABLE OR PERMANENT SUPPORT
 - CONSTRUCTION SIGN WITH FLASHING LIGHT
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - TYPE III BARRICADE

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF BEDFORD PARK TRAFFIC CONTROL PLAN 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
NAME	DATE	
JMH PER IDOT REVIEW	08/25/09	SCALE: HORIZ: 1"=50' DATE: 07/16/09
JMH PER IDOT REVIEW	08/31/09	
		DRAWN BY: JMH CHECKED BY: SAL

TBE JOB# 07-515

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	12
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63267				

hbe **Hoeffler-Butler Engineering, Inc.**
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 8714 S. ROBERTS ROAD - ROCKFORD, ILLINOIS 61107
 (708) 595-8980 FAX (708) 599-8796



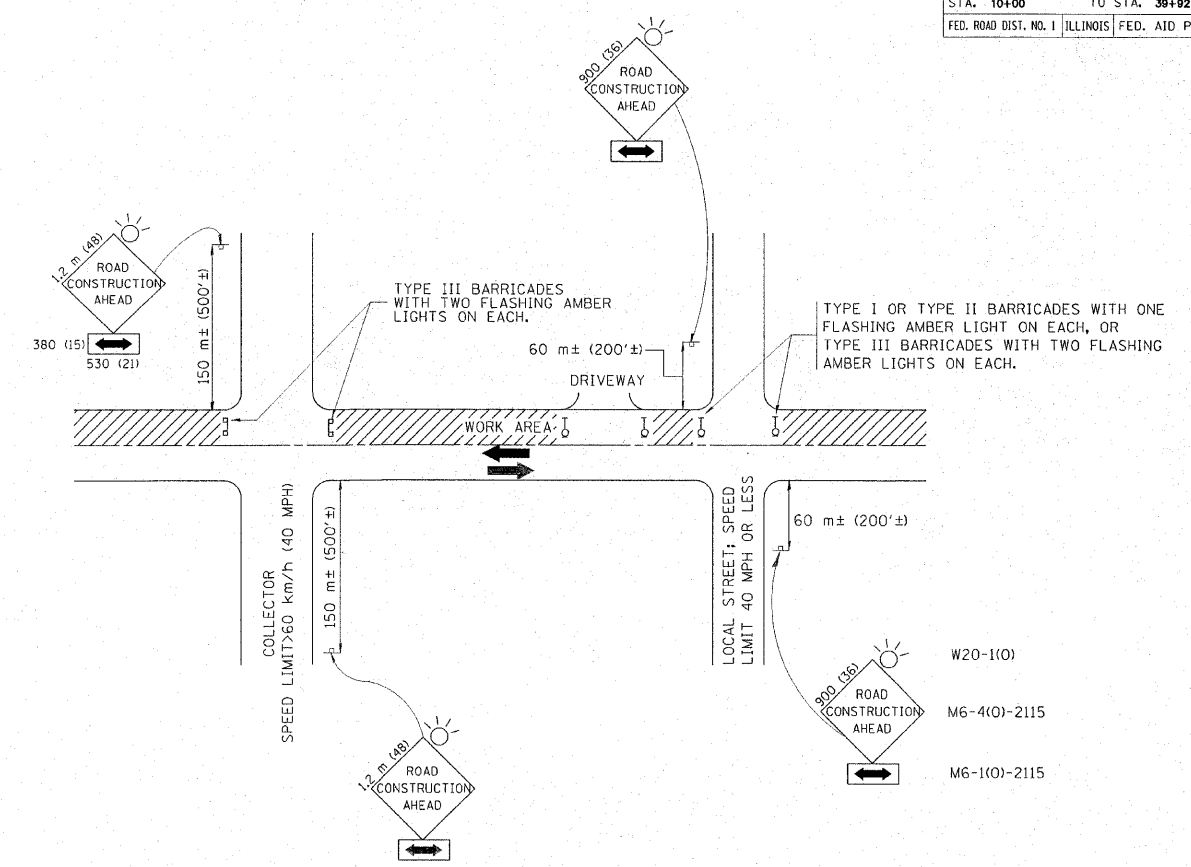
NOTE: ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

TYPICAL SECTIONS
(NOT TO SCALE)

REVISIONS	NAME	DATE
JMH PER IDOT REVIEW		08/25/09
JMH PER IDOT REVIEW		08/31/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF BEDFORD PARK
 PAVEMENT MARKING PLAN
 70th PLACE TO VILLAGE LIMITS (RR TRACKS)
 SCALE:
 HORIZ: 1"=30'
 DATE: 07/16/09
 DRAWN BY: JMH
 CHECKED BY: SAL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	13
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') 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.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

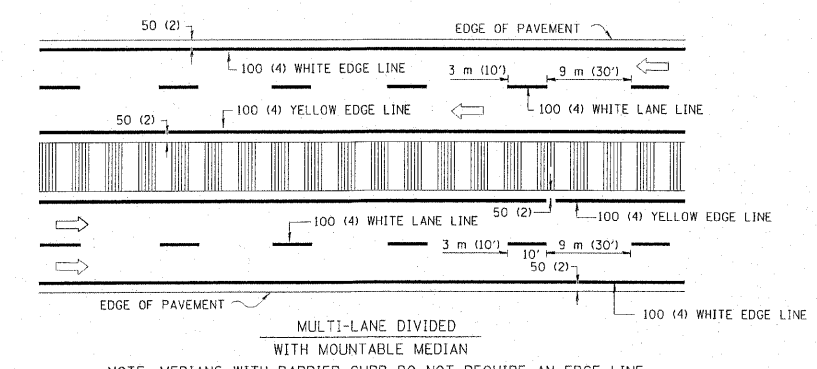
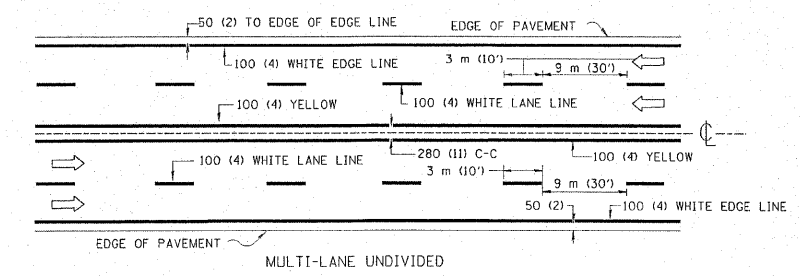
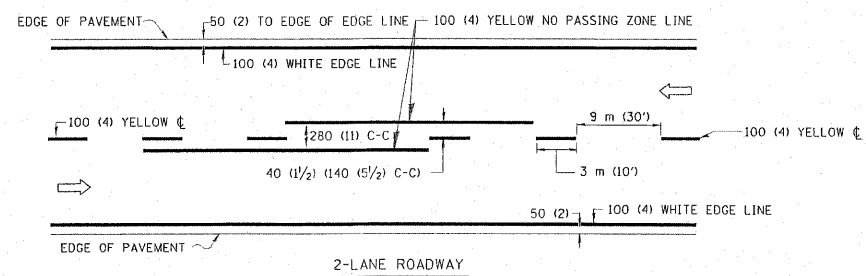
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: VERT. _____
 HORIZ. _____
 DATE 10/18/2002

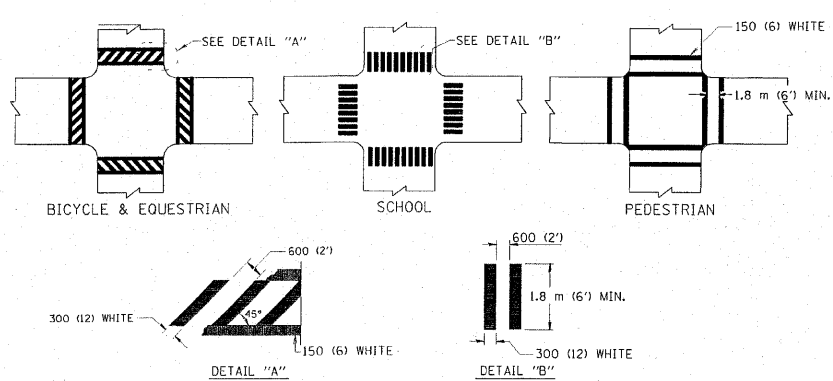
DRAWN BY _____
 CHECKED BY _____
 TC-10

hbe **Hoefler-Butler Engineering, Inc.**
 Consulting Civil Engineers • Land Surveyors
 PROFESSIONAL DESIGN FIRM LICENSE NO. 04-00089
 874 S. ROBERTS ROAD • HOBART HILLS, ILLINOIS 60437
 (708) 599-8989 FAX (708) 599-8796

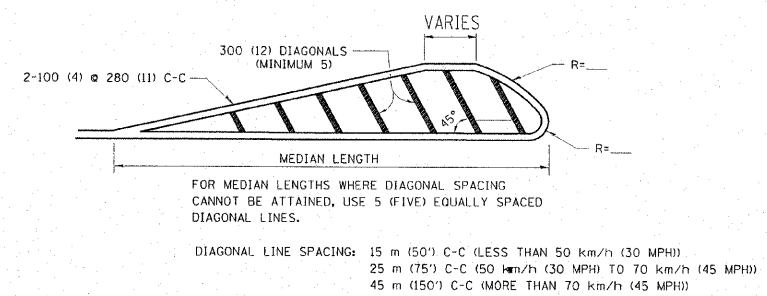
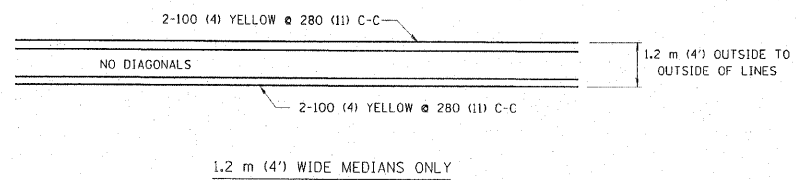
F. A. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2786	09-00031-00-PV	COOK	16	14
STA. 10+00	TO STA. 39+92			
FED. ROAD DIST. NO.	BLDG.	BLDG.	FED. AID PROJECT	



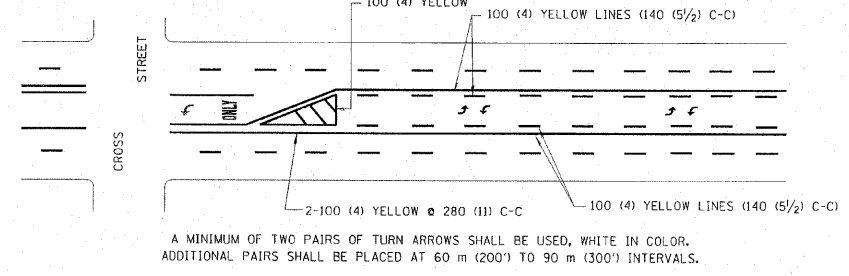
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE
TYPICAL LANE AND EDGE LINE MARKING



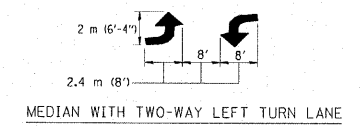
TYPICAL CROSSWALK MARKING



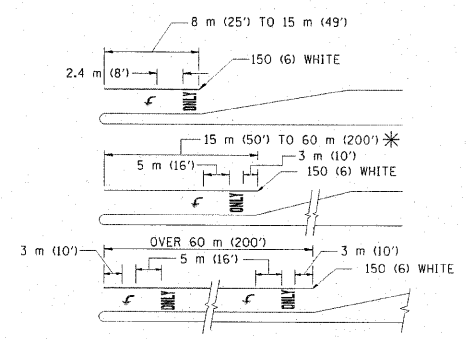
DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))
 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
 45 m (150') C-C (MORE THAN 70 km/h (45 MPH))



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

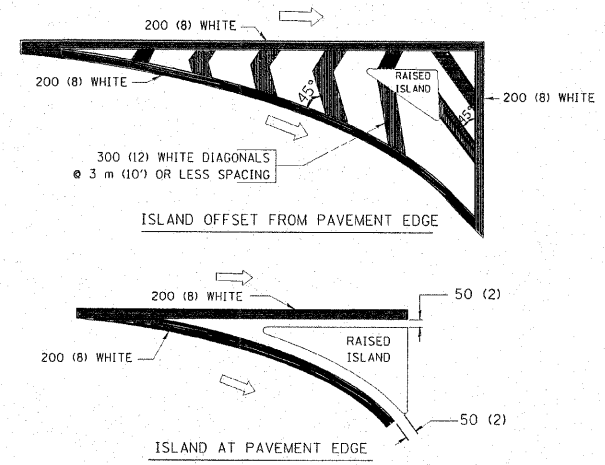


TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
 * AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)
 * TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) 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 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT; OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS

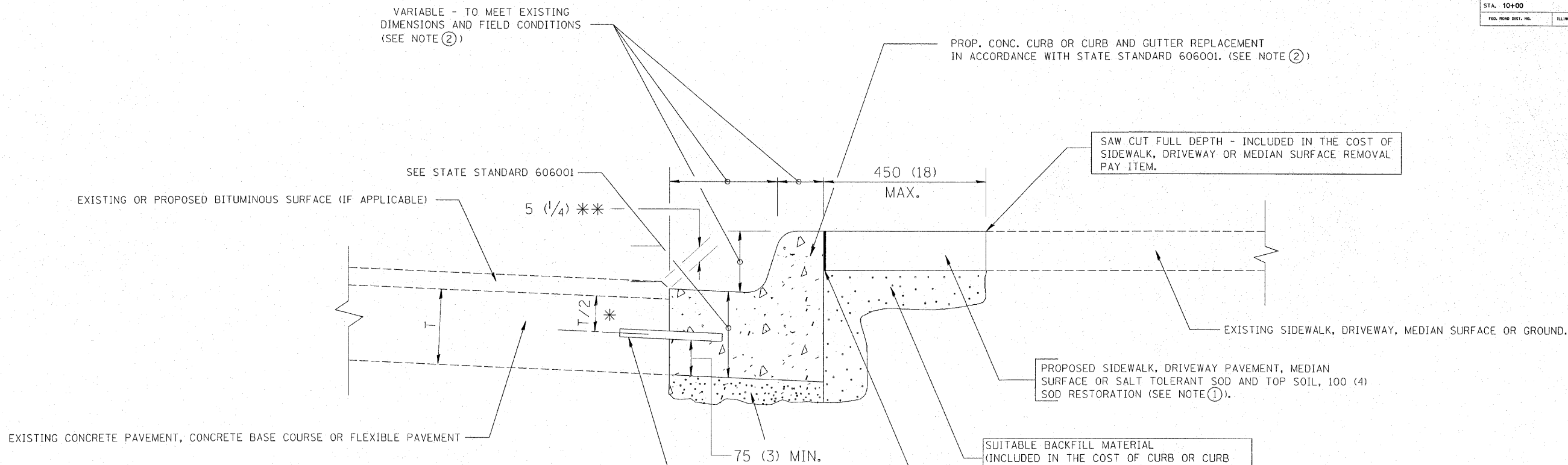
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

SCALE: NONE
 DATE 10/18/2002
 DRAWN BY CADD
 CHECKED BY
 TC-13
 REVISION DATE: 01/06/00

hbe Hoeffel-Butler Engineering, Inc.
 Consulting Civil Engineers • Land Surveyors
 PROFESSIONAL DESIGN FIRM LICENSE NO. 064-00089
 874 S. ROBERTS ROAD • ROCKFORD HILLS, ILLINOIS 60457
 (815) 399-9380 FAX (815) 399-9376

DATE-TIME
 DGN-SPEC
 VHT/013

F. A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	15
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



- * 75 (3) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SALT TOLERANT SOD AND TOP SOIL, 100 (4) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF BITUMINOUS SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE
M. DE YONG	05/28/91
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	03/12/96
R. SHAH	03/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

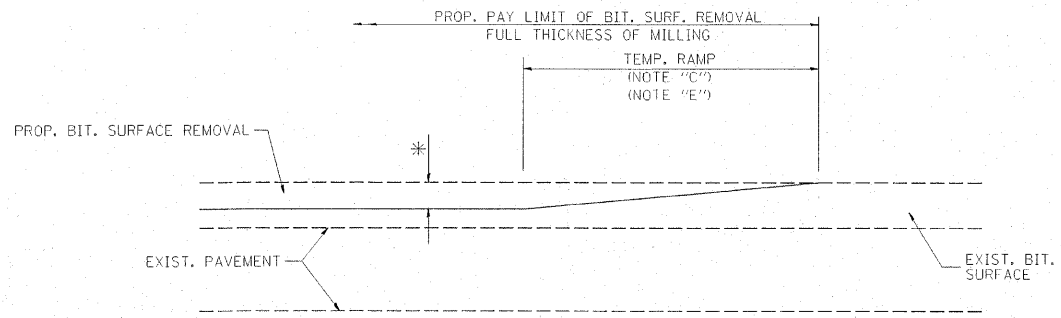
**CURB OR
CURB AND GUTTER
REMOVAL AND REPLACEMENT**

SCALE: NONE
 DATE 10/18/2002

DRAWN BY
 CHECKED BY
 BD600-06 (BD-24)

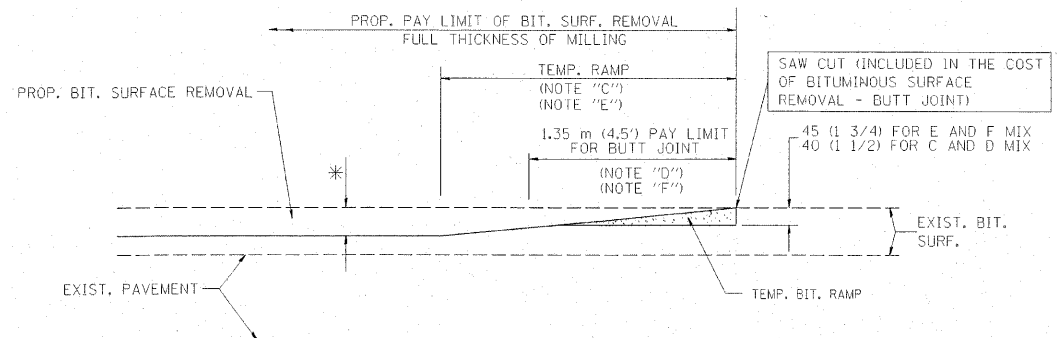
hbe Hoeffler-Butler Engineering, Inc.
 Consulting Civil Engineers - Land Surveyors
 PROFESSIONAL DESIGN FIRM LICENSE NO. 184-00819
 8714 S. ROBERTS ROAD HICKORY HILLS, ILLINOIS 60457
 (708) 599-8980 FAX (708) 599-8791

F. A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2796	09-00031-00-PV	COOK	16	16
STA. 10+00		TO STA. 39+92		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

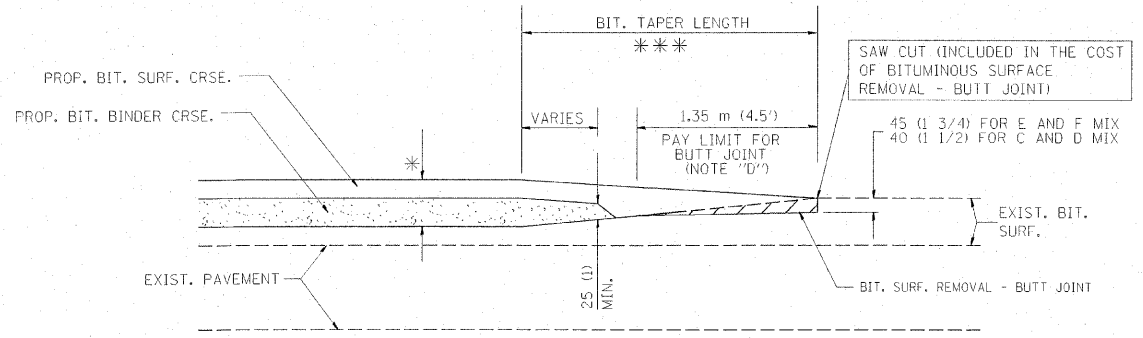
OPTION 1



BITUMINOUS CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

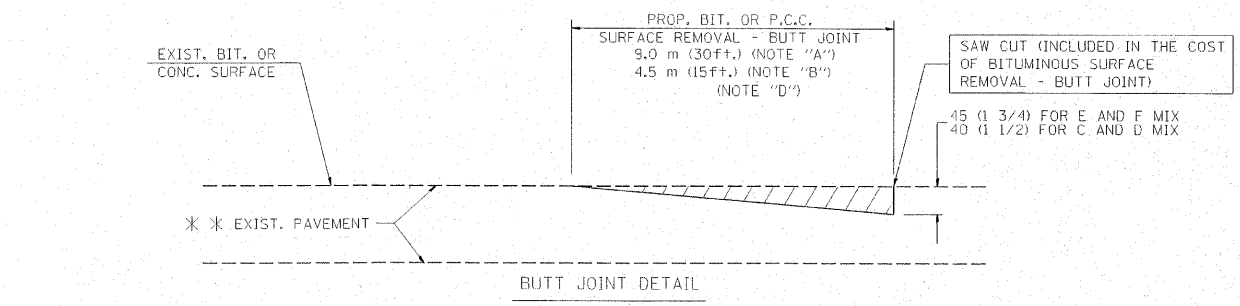
OPTION 2

TYPICAL TEMPORARY RAMP

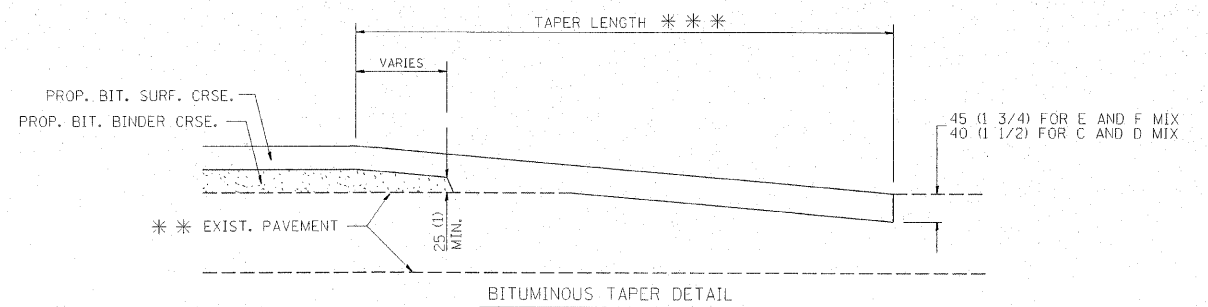


BUTT JOINT AND BITUMINOUS TAPER

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY

*** PC CONCRETE, BITUMINOUS OR BITUMINOUS 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 BITUMINOUS SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 FT.) PER INCH OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT".
- G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

BASIS OF PAYMENT:
THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01

SCALE: NONE
DRAWN BY: [blank]
CHECKED BY: [blank]
DATE PLOTTED: 10/18/2002

REVISION DATE: 04/06/01

hbe **Hoefferle-Butler Engineering, Inc.**
Consulting Civil Engineers • Land Surveyors
PROFESSIONAL DESIGN FIRM LICENSE NO. 194-00019
6457
8714 S. ROBERTS ROAD HICKORY HILLS, ILLINOIS
C780 599-8988 FAX C780 599-8770

DATE-TIME
DRAW-SPEC
VI-BD32

FILE 008#07-510