

SUMMARY OF QUANTITIES			URBAN		CONSTRUCTION TYPE CODE															
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0004 90% FED 10% STATE STATE URBAN	0021 90% FED 10% STATE TRAFFIC SIGNALS	0014 90% FED 10% STATE BRIDGE: MEDIAN WORK	0040 90% FED 10% STATE RETAINING WALL	0028 80% STATE 20% WILLOW SPRINGS SHARED PATH SIDEWALK	0021 100% WILLOW SPRINGS EVP											
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	310	310																
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	575	575																
550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	30	30																
550A0680	STORM SEWERS, CLASS A, TYPE 3 18"	FOOT	44	44																
550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	FOOT	123	123																
550A4100	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	147	147																
55100500	STORM SEWER REMOVAL 12"	FOOT	1236	1236																
55100700	STORM SEWER REMOVAL 15"	FOOT	216	216																
55100900	STORM SEWER REMOVAL 18"	FOOT	16	16																
55101200	STORM SEWER REMOVAL 24"	FOOT	378	378																
58700300	CONCRETE SEALER	50 FT	3098				3098													
59100100	GEOCOMPOSITE WALL DRAIN	50 YD	220				220													
60107600	PIPE UNDERDRAINS 4"	FOOT	650	650																
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	35	35																
60200105	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE I FRAME, OPEN LID	EACH	1	1																
60200805	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE B GRATE	EACH	1	1																

Rev. 6-3-14

Rev.

FILE NAME :	USER NAME : dora/001	DESIGNED -	REVISED -
6:\pwork\work\for\coray\neeh\0060753\142709-dra\p01a.dgn		DRAWN -	REVISED -
	PLOT SCALE : 100.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE : 12/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 171 (ARCHER AVE) AT 104TH AVE. (FLAVIN ROAD)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	B-N-5	COOK	129	7
SCALE:			SHEET NO. OF SHEETS	STA. TO STA.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

14

EARTHWORK SCHEDULE

1 LOCATION	2 EARTH EXCAVATION (CU. YD)	3 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU. YD)	4 EMBANKMENT (CU. YD)	5 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU. YD)
IL. RTE. 171	50	43	2307	-2264
104TH AVE. / WILLOW SPRINGS RD.	0	0	1226	-1226
TOTAL	50	43	3533	-3490

COLUMNS 1, 2, & 4 LOCATION AND QUANTITIES FROM CROSS SECTIONS:
CUT = EARTH EXCAVATION, FILL = EMBANKMENT

COLUMN 3 QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR SHRINKAGE FACTOR OF 15%.

COLUMN 5 EARTHWORK REQUIRED:
(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED (FURNISHED OR BORROW EXCAVATION)
(+) = QUANTITY TO BE WASTED.

LANDSCAPING SCHEDULE

FAU 1600 (143RD STREET)	TOPSOIL EXCAVATION AND PLACEMENT (CU. YD)	TOPSOIL EXCAVATION AND PLACEMENT, 6" (SQ. YD.)	AREA OF TOPSOIL NEEDED (SQ. YD.)	EXCESS OF TOPSOIL TO BE MOVED (SQ. YD.)
IL. RTE. 171	788	4728	614	4114
1104TH AVE. / WILLOW SPRINGS RD.	2484	14904	908	13996
TOTAL	3272	19632	1522	18110

TREE REMOVAL SCHEDULE

ROADWAY	STATION AND OFFSET	6 TO 15 UNITS	OVER 15 UNITS
IL. RTE. 171	198+76.2 / 41.5 L	6	
	198+94.7 / 41.9 L	7	
	199+01.5 / 37.7 R		24
	202+06.2 / 33.8 R		36
104TH AVE. / WILLOW SPRINGS RD.	501+13.3 / 69.6 R	8	
TOTAL		21	60

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE TYPE	AIR VOIDS (%) • Ndes	OMP
RESURFACING AND OVERLAY OVER EXISTING PCC		
POLY HMA SURFACE COURSE MIX "F", N90 (IL 9.5mm), 1 3/4"	4% @ 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	OC / OA
WIDENING		
POLY HMA SURFACE COURSE MIX "F", N90 (IL 9.5mm), 1 3/4"	4% @ 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% @ 50 GYR.	OC / OA
HMA SHOULDER RESURFACING		
POLY HMA SURFACE COURSE MIX "F", N90 (IL 9.5mm), 1 3/4"	4% @ 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1 1/2"	3.5% @ 50 GYR.	OC / OA
HOT-MIX ASPHALT PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm), 10"	4% @ 70 GYR.	OC / OA
HMA REPLACEMENT OVER PATCHES		
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	OC / OA
SHARED PATH		
HMA SURFACE COURSE MIX "D", N50 (IL-9.5mm), 2"	4% @ 50 GYR.	OC / OA
HMA DRIVEWAY (C.E.)		
HMA SURFACE COURSE MIX "D", N50, (IL-9.5mm), 2"	4% @ 50 GYR.	OC / OA
HMA BASE COURSE (IL-19mm), 8"	4% @ 50 GYR.	OC / OA

OMP Designation: Quality Control/Quality Assurance (OC/OA); Quality Control for Performance (OCP).

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO 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. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE MIXTURE.

PAVEMENT PATCHING SHALL BE DONE PRIOR TO MILLING THE ROADWAY SURFACE, PER BD-22 DETAIL

1 REVISED AP 5/22/14

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES OF QUANTITIES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwwork\pwwork\paraynoal\vd8168753\VP1	paraynoal	DRAWN	REVISED		IL. ROUTE 171 (ARCHER AVE.) AT 104TH AVE.		3565	B-N-5	COOK	129	26
		CHECKED	REVISED		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		CONTRACT NO. 60T24
		DATE	REVISED		(ILLINOIS) FED. AID PROJECT						

DRAINAGE STRUCTURES AND STORM SEWERS TABLE

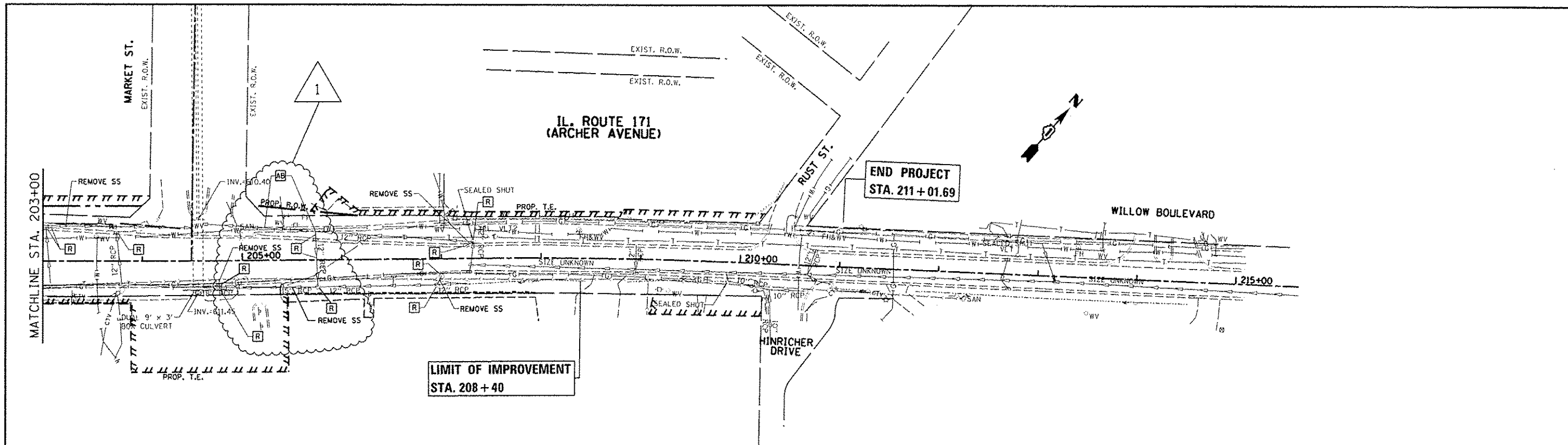
DRAINAGE STRUCTURES

<p>1 STA. 497+39.0, 21.6 RT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 628.4 INV.(NW) = 619.0 EXISTING INV.(SW) = 622.1 (MAINTAIN)</p>	<p>FLAT TOP 18 STA. 199+24.5, 48.4 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 614.8 INV.(N) = 609.2 INV.(NE) = 609.4 INV.(SW) = 609.3</p>	<p>FLAT TOP 29 STA. 504+19.2, 76.8 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 596.5 INV.(NW) = 593.1 INV.(SE) = 593.1</p>	<p>41 STA. 204+40.5, 33.7 LT MH TYP.A 6' DIA. W/ F&G CL TYP.1 T.O.G. = 610.4 INV.(SW) = 602.7 INV.(NE) = 602.6 <i>NOTE: SEE DISTRICT DETAIL BD-12 FOR OTHER ELEVATIONS AND REQUIREMENTS</i></p>
<p>4 STA. 498+10.5, 22.4 LT CB TYP.A 4' DIA. W/ F&G TYP. 24 T.O.G. = 623.7 INV.(NW) = 616.0</p>	<p>FLAT TOP 19 STA. 500+68.9, 52.8 LT MH TYP.A 6' DIA. W/ F&G CL TYP.1 T.O.G. = 614.6 INV.(S) = 609.1 INV.(SE) = 609.9 INV.(NW) = 603.5 <i>NOTE: SEE DISTRICT DETAIL BD-12 FOR OTHER ELEVATIONS AND REQUIREMENTS</i></p>	<p>FLAT TOP 30 STA. 504+45.8, 73.2 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 597.4 INV.(SE) = 593.0</p>	<p>OUTLET #3 RESTRICTOR 42 STA. 204+50.9, 33.5 LT STORM SEWER CONNECTION TO SOUTHWEST SIDE T.O.G. = 610.9 INV.(SW) = 602.5 <i>NOTE: EXIST. STRUCTURE TO REMAIN</i></p>
<p>5 STA. 498+38.5, 21.0 RT MH TYP.A 4' DIA. W/ F&G CL TYP.1 T.O.G. = 621.8 INV.(S) = 614.8 INV.(SE) = 616.3 INV.(NW) = 613.3</p>	<p>OUTLET #2 RESTRICTOR 20 STA. 500+89.4, 39.9 RT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 614.5 INV.(SW) = 609.0</p>	<p>31 STA. 200+54.1, 56.2 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 614.3 INV.(E) = 608.5</p>	<p>FLAT TOP 45 STA. 207+32.0, 16.9 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 615.6 INV.(SW) = 606 INV.(SE) = 607.2</p>
<p>8 STA. 499+25.3, 28.8 RT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 616.7 INV.(N) = 613.0</p>	<p>21 STA. 500+77.6, 39.3 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 614.3 INV.(NW) = 608.8</p>	<p>32 STA. 200+65.3, 45.4 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 614.2 INV.(W) = 608.3 INV.(NE) = 608.0</p>	<p>FLAT TOP 46 STA. 206+23.3, 24.9 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 613.7 INV.(NE) = 604.8 INV.(SW) = 604.6</p>
<p>FLAT TOP 9 STA. 499+29.8, 34.5 RT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 616.9 INV.(S) = 612.9 INV.(SE) = 612.3 INV.(SW) = 612.0 INV.(NW) 612.6 (EXISTING)</p>	<p>22 STA. 500+88.4, 38.1 LT CB TYP.A 4' DIA. F&G TYP.24 T.O.G. = 614.4 INV.(SE) = 608.7 INV.(NE) = 608.0 INV.(SW) = 606.0</p>	<p>33 STA. 201+84.3, 37.3 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 612.5 INV.(NW) = 607.0</p>	<p>FLAT TOP 47 STA. 207+26.9, 30.1 RT CB TYP.A 4' DIA. W/ F&G TYP.8 T.O.G. = 616.6 TO MATCH PROP. SWALE ELEV. INV.(SW) = 608.5</p>
<p>FLAT TOP 10 STA. 499+42.3, 36.5 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 616.9 INV.(NW) = 611.0 INV.(NE) = 611.3</p>	<p>23 STA. 500+88.1, 52.1 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 612.5 INV.(NW) = 603.0 INV.(NE) = 605.7 INV.(SE) = 603.3</p>	<p>34 STA. 201+84.4, 44.0 LT MH TYP.A 4' DIA. W/ F&G CL TYP.1 T.O.G. = 613.1 INV.(SW) = 606.0 INV.(SE) = 606.9 INV.(NE) = 605.8</p>	<p>FLAT TOP 48 STA. 207+01, 16.3 RT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 615.2 INV.(S) = 608.2</p>
<p>FLAT TOP 11 STA. 499+55.9, 38.2 LT CB TYP.A 5' DIA. W/ F&G TYP.24 T.O.G. = 616.2 INV.(NW) = 610.7 INV.(SE) = 610.9</p>	<p>24 STA. 500+99.1, 58.5 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 611.1 INV.(SE) = 602.9 INV.(NW) = 599.7</p>	<p>35 STA. 203+03, 33.5 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 611.2 INV.(W) = 605.6 INV.(E) = 605.9 (EXIST. MAINTAIN)</p>	<p>FLAT TOP 49 STA. 206+95.7, 26.4 RT MH TYP.A 4' DIA. W/ F&G CL TYP.1 T.O.G. = 615.9 (PROPOSED; SEE CROSS-SECTION) INV.(N) = 608.0 INV.(NE) = 608.0 INV.(SW) = 607.9 (EXISTING, MAINTAIN)</p>
<p>FLAT TOP 12 STA. 500+49.34, 49.8 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 614.8 INV.(NW) = 610.1 INV.(SE) = 610.3</p>	<p>25 STA. 501+89.3, 29.2 RT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 616.5 INV.(E) = 611.0</p>	<p>36 STA. 202+93.9, 37.4 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 611.2 INV.(NW) = 605.2 INV.(E) = 605.4</p>	<p>FLAT TOP 50 STA. 204+76.7, 19.5 RT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 611.8 INV.(SE) = 607.3</p>
<p>FLAT TOP 13 STA. 198+11.3, 29.0 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 616.5 INV.(NE) = 609.8 INV.(SW) = 610.1 (EXIST. MAINTAIN)</p>	<p>26 STA. 501+90, 37.2 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 616.3 INV.(NE) = 609.7 INV.(S) = 601.0</p>	<p>FLAT TOP 37 STA. 202+93.5, 43.9 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 612.2 INV.(SW) = 604.6 INV.(SE) = 605.1 INV.(NE) = 604.3</p>	<p>FLAT TOP 51 STA. 204+76.8, 27.7 RT CB TYP.A 4' DIA. W/ F&G OL. TYP.1 T.O.G. = 611.8 INV.(NW) = 607.1 INV.(NE) = 602.2 INV.(SW) = 602.0</p>
<p>FLAT TOP 14 STA. 198+40.1, 25.9 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 615.9 INV.(NE) = 610.7</p>	<p>27 STA. 501+67.8, 63.1 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 606.6 INV.(SE) = 599.0 INV.(N) = 600.0 INV.(NW) = 595.5</p>	<p>38 STA. 203+74.1, 29.0 LT MH TYP.A 4' DIA. W/ F&G CL TYP.1 T.O.G. = 610.8 INV.(NW) = 604.5 INV.(SE) = 604.7 (EXIST. MAINTAIN)</p>	<p>EXIST. BOX CULVERT 51A STA. 204+60.9, 27.3 RT (24" STORM SEWER CONNECTION TO NORTHEAST DOWNSTREAM SIDE OF EXISTING BOX CULVERT) T.O.G. = 611.5 INV.(NE) = 601.8 <i>NOTE: EXIST. STRUCTURE TO REMAIN</i></p>
<p>15 STA. 198+60.7, 26.3 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 615.8 INV.(NW) = 610.3 INV.(SW) = 610.5</p>	<p>FLAT TOP 28 STA. 502+90.6, 71.2 LT CB TYP.A 5' DIA. W/ F&G TYP.8 T.O.G. = 597.8 INV.(SE) = 594.0 INV.(NW) = 593.7</p>	<p>39 STA. 203+73.2, 37.3 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 610.4 INV.(NW) = 604.2 INV.(SE) = 604.4</p>	<p>1 STA. 204+60.9, 27.3 RT (24" STORM SEWER CONNECTION TO SOUTHWEST SIDE) T.O.G. = 610.9 INV.(SW) = 602.5</p>
<p>FLAT TOP 16 STA. 198+60.3, 37.2 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 615.9 INV.(NE) = 609.5 INV.(SW) = 609.6 INV.(SE) = 610.2</p>	<p>40 STA. 203+72.6, 44.0 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 610.7 INV.(SE) = 604.1 INV.(SW) = 603.1 INV.(NE) = 602.9</p>	<p>FLAT TOP 51 STA. 204+76.8, 27.7 RT CB TYP.A 4' DIA. W/ F&G OL. TYP.1 T.O.G. = 611.8 INV.(NW) = 607.1 INV.(NE) = 602.2 INV.(SW) = 602.0</p>	<p>1 STA. 205+74.1, 20.6 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 612.9 INV.(NE) = 604.0 INV.(SE) = 603.8</p>
<p>17 STA. 199+36.4, 44.6 LT CB TYP.A 4' DIA. W/ F&G TYP.24 T.O.G. = 615.1 INV.(SW) = 609.5</p>	<p>41 STA. 203+72.6, 44.0 LT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 610.7 INV.(SE) = 604.1 INV.(SW) = 603.1 INV.(NE) = 602.9</p>	<p>FLAT TOP 51 STA. 204+76.8, 27.7 RT CB TYP.A 4' DIA. W/ F&G OL. TYP.1 T.O.G. = 611.8 INV.(NW) = 607.1 INV.(NE) = 602.2 INV.(SW) = 602.0</p>	<p>1 STA. 205+75.9, 27.4 RT MH TYP.A 5' DIA. W/ F&G CL TYP.1 T.O.G. = 614.1 INV.(NE) = 605.1 (EXISTING) INV.(NW) = 603.2 INV.(SW) = 603.0</p>

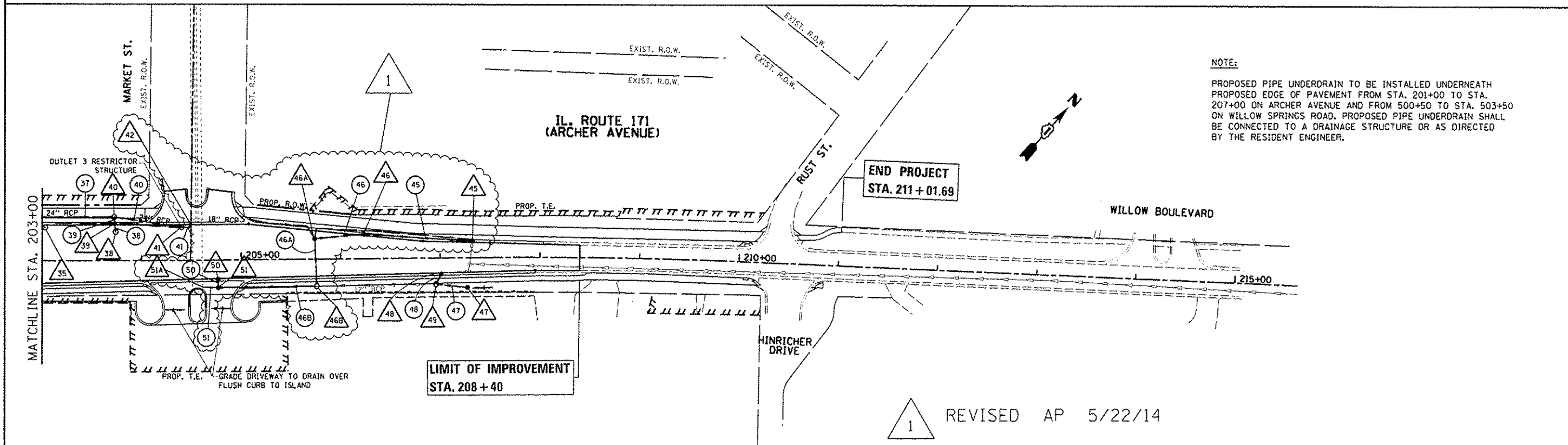
1 REVISED AP 5/22/14

NOTE:
STORM SEWER OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS:
A) TO THE PAVEMENT EDGE, FOR STRUCTURES FALLING IN THE CURB LINE.
B) TO THE CENTER OF THE STRUCTURE FOR ALL OTHER STRUCTURE LOCATIONS.

FILE NAME : c:\pwworkspace\p0909001\102160753\102160753.dwg	USER NAME : p0909001	DESIGNED -	REVISED -	STATE OF ILLINOIS	DRAINAGE TABLE	F.A.U. R.T.E. 3565	SECTION B-N-5	COUNTY COOK	TOTAL SHEETS 129	SHEET NO. 43
Default	PLOT SCALE : 1/8"=1'-0"	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.	SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 60T24	
	PLOT DATE : 5/23/2014	CHECKED -	REVISED -						ILLINOIS FED. AID PROJECT	



EXISTING



PROPOSED

FILE NAME	USER NAME	DESIGNED	REVISED
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	27W9-shit-gennote.dgn	DRAWN	REVISED
		-	-
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		-	-
	PLOT DATE = 5/22/2014	DATE	REVISED
		-	-

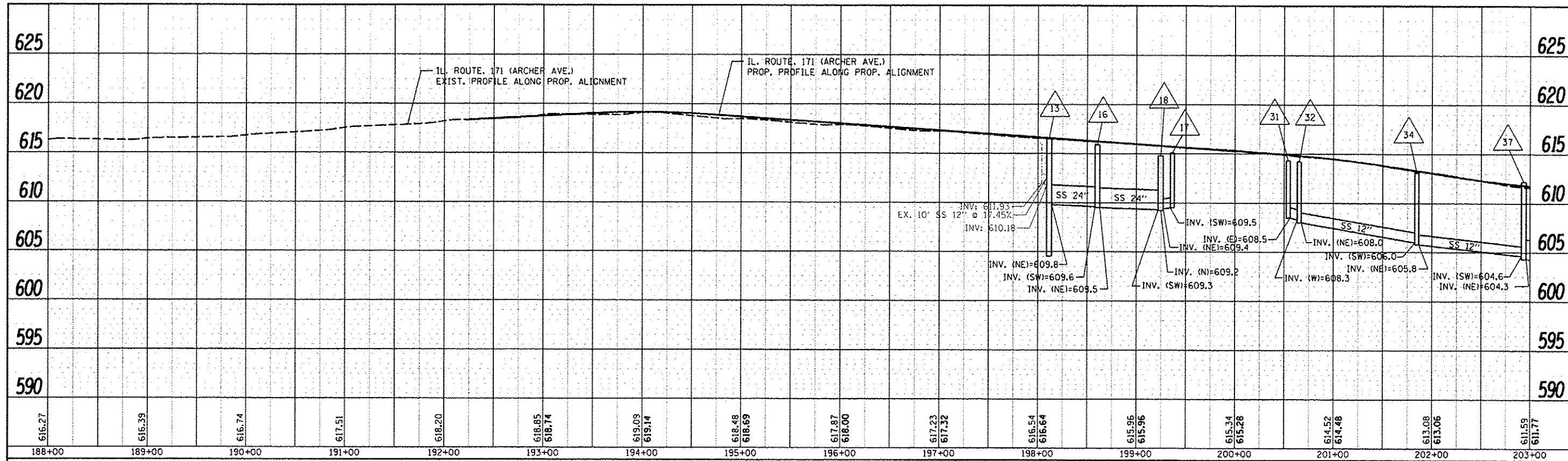
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN
IL. ROUTE 171 (ARCHER AVE.) AT 104th AVE.**

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

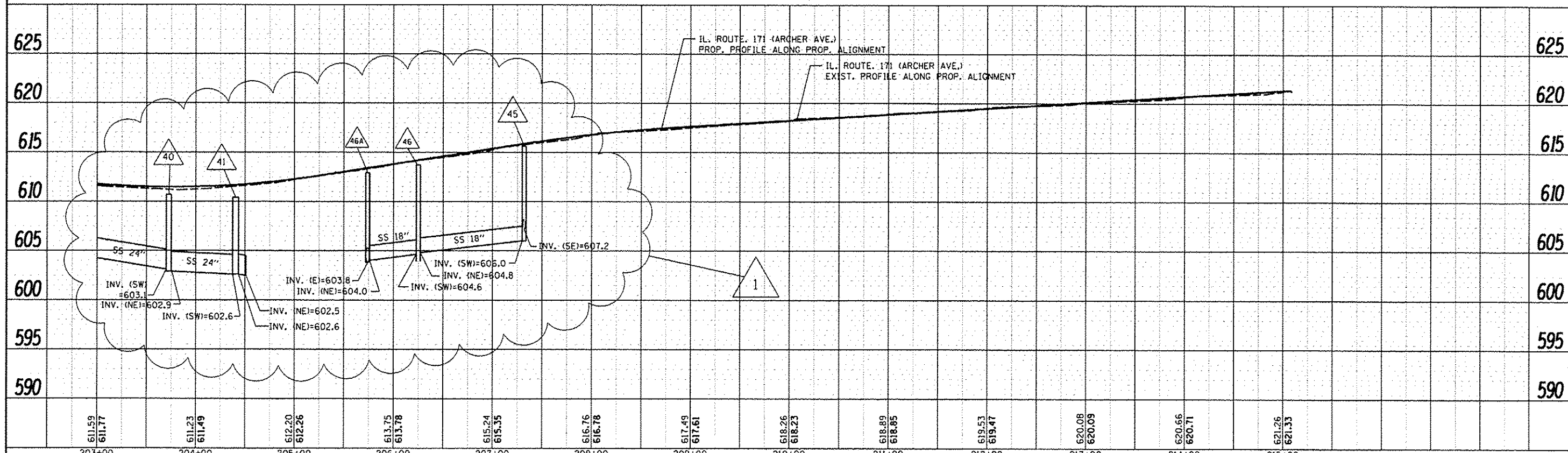
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
356B	B-N-5	COOK	129	46
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

BY	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	
NO.	
FILE NAME	
NO.	



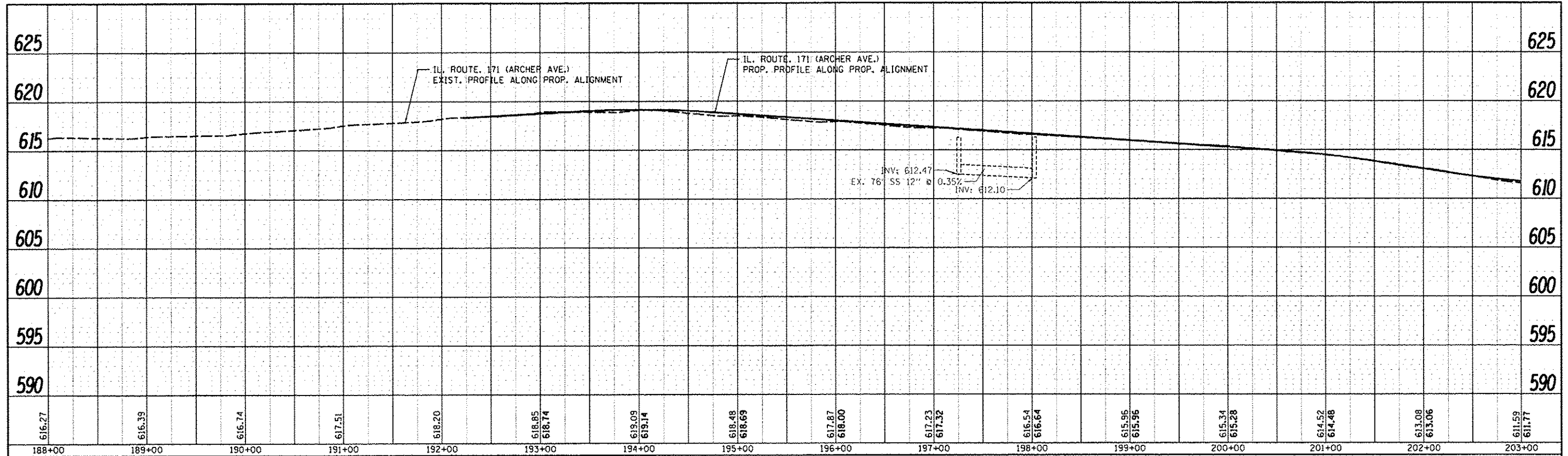
1 REVISED AP 5/22/14

BY	DATE
DESIGNED	
DRAWN	
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FILE NAME	
NO.	



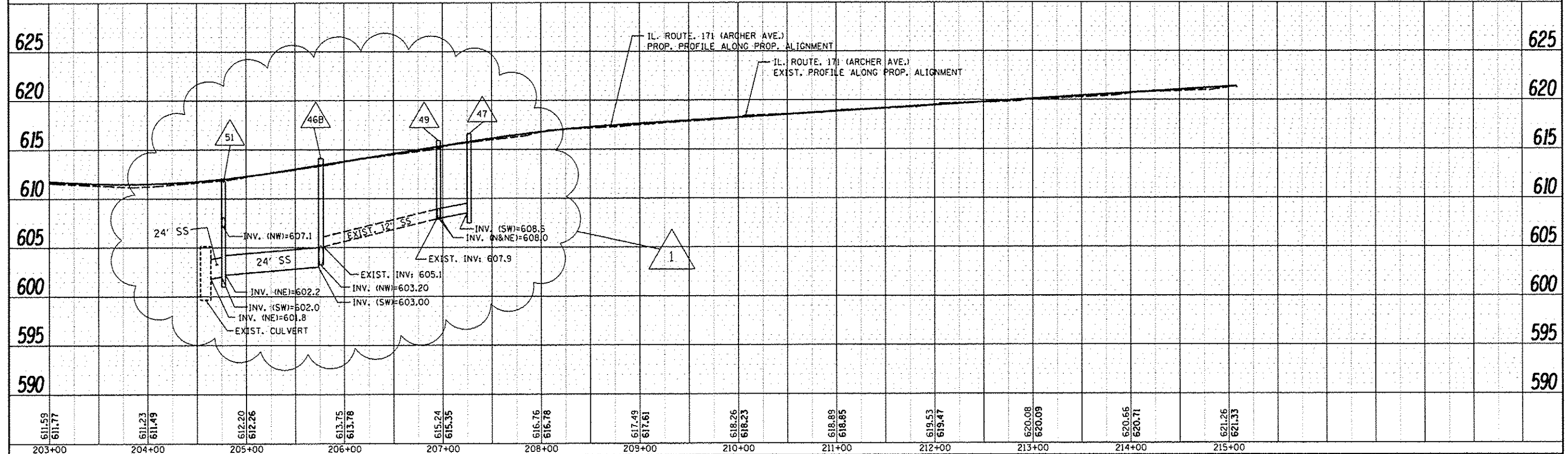
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c:\pwworksp\p101\p101\p101\148168753\p1142	paragonal							3565		COOK	129	47
Default	PLOT SCALE = 1/8"=20' / in.	CHECKED	REVISED								CONTRACT NO. 60T24	
	PLOT DATE = 5/22/2014	DATE	REVISED			SCALE: 1"=50'		SHEET	OF	SHEETS	STA.	TO STA.
											ILLINOIS FED. AID PROJECT	

DATE	
BY	
PROJECT	
PROJ. NO.	
ALLOCATION CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	



1 REVISED AP 5/22/14

DATE	
BY	
PROFILE	
ROUTED	
CHANGES CHECKED	
FILE NO.	
DATE	



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PROFILE RIGHT SIDE
IL. ROUTE 171 (ARCHER AVE.)

FILE NAME: c:\work\p10101\perognal\0168753\p142
24-shr-gamma.dgn

USER NAME: perognal
DESIGNED: [blank]
DRAWN: [blank]
CHECKED: [blank]
DATE: 5/22/2014

REVISIONS:
REVIS: [blank]
REVIS: [blank]
REVIS: [blank]
REVIS: [blank]

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565		COOK	129	48
CONTRACT NO. 60T24				
ILLINOIS FED. AID PROJECT				

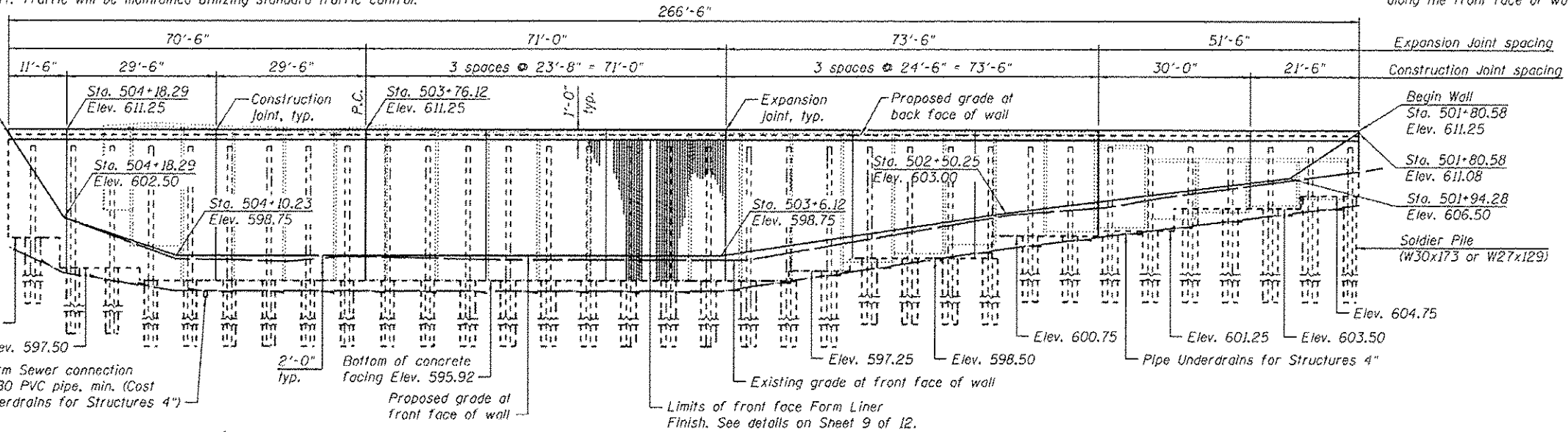
Benchmark: Chiseled Square in concrete base of traffic signal at the north east corner of 1L-171 and Willow Springs Road, Elev. 615.27

Existing Structure: Metal "Bin Style" retaining wall was built at an unknown time after 1974. The existing wall does not have a structure number. The wall height varies from ±13'-4" to ±2'-4". The posts are spaced ±10'-0" apart. Traffic will be maintained utilizing standard traffic control.

Note: All dimensions are measured along the front face of wall

No Salvage.

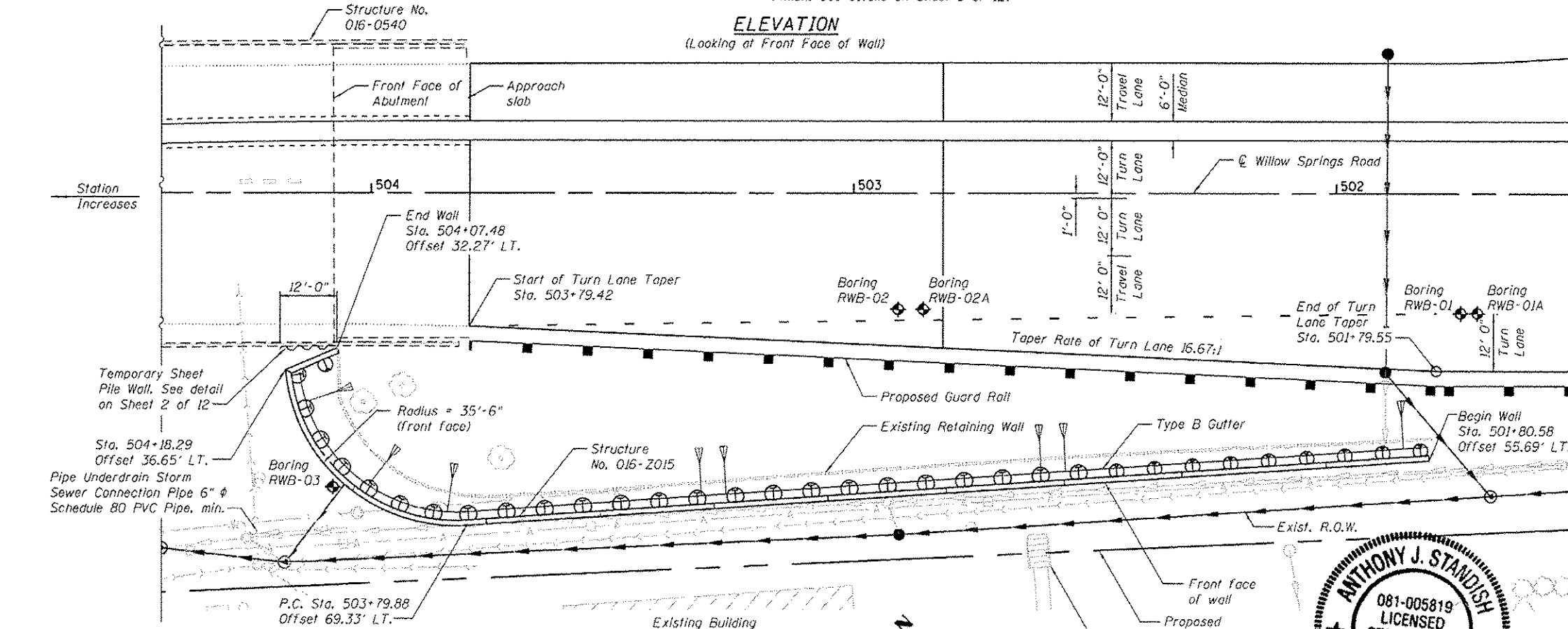
End Wall
Sta. 504+07.48
Elev. 611.25



Pipe underdrain Storm Sewer connection pipe 6" Schedule 80 PVC pipe, min. (Cost included in Pipe Underdrains for Structures 4)

Structure No. 016-0540

ELEVATION
(Looking at Front Face of Wall)



PLAN

Notes: Offsets are measured from the centerline of Willow Springs Road to the front face of wall
P.C. = Point of curvature of wall
Utility relocation shown on the roadway plans.
See Roadway plans for Type B Gutter

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Bill of Material
- 3 Soldier Pile Layout
- 4 Typical Section
- 5 General Details
- 6-7 Concrete Details
- 8 Pile Splice Details
- 9 Form Liner Details
- 10-12 Soil Boring Log

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

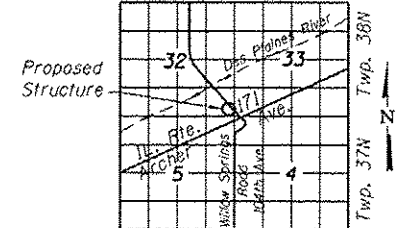
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

LEGEND

- Storm Sewer
- Pipe Underdrain
- Existing Storm Sewer
- Existing Sanitary Sewer
- Existing Water Main
- Aerial Electric Line
- Utility Pole
- Soil Boring
- Catch Basin
- Storm Manhole

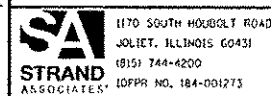
Range 12E - 3rd. PM



LOCATION SKETCH



GENERAL PLAN
104TH AVENUE/WILLOW SPRINGS ROAD
E.A.U. 2697 SECTION B-N-5
COOK COUNTY
STATION 501+80.58 TO STATION 504+18.29
STRUCTURE NO. 016-2015



USER NAME = briant	DESIGNED - KJL	REVISOR
PLLOT SCALE =	CHECKED - RRD	REVISOR
PLLOT DATE = 2/25/2014	DRAWN - BJF	REVISOR
	CHECKED - RRD	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-2015
SHEET NO. 1 OF 12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	B-N-5	COOK	129	75
				CONTRACT NO. 60T24
ILLINOIS FED. AID PROJECT				

