09-22-2023 LETTING ITEM 064

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

COUNTY 20-18113 WAYNE 18 -00-BR ILLINOIS CONTRACT NO. 95923

SECTION

259

INDEX OF SHEETS

HEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	PLAN AND PROFILE
5-9.	CULVERT PLANS
10-18.	STATION CROSS SECTIONS

PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM OFF SYSTEM BRIDGE

PROJECT NHWH(008) SECTION 20-18113-00-BR ORCHARD ROAD DISTRICT **WAYNE COUNTY** T.R. 259 / 1550N PROPOSED STRUCTURE NO. 096-3477 C-97-074-22

HIGHWAY STANDARDS

515001-04

NAME PLATE FOR BRIDGES

701901-08

TRAFFIC CONTROL DEVICES

BLR 21-9

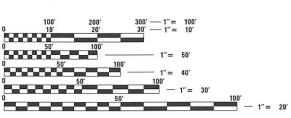
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

AT&T CORP. 2500 COLT ROAD SPRINGFIELD, IL 62707

WESTERN WAYNE WATER DISTRICT 102 S. MAIN WAYNE CITY, IL 62895

WABASH COMMUNICATIONS CO-OP LOUISVILLE, IL 62858



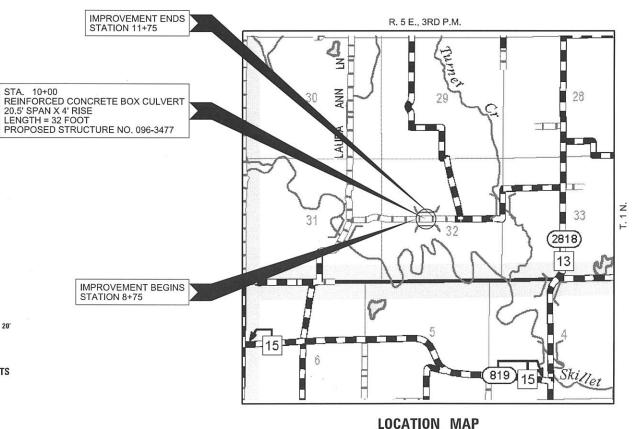
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: DESIGN SPEED:

LOCAL ROAD (0-250 ADT) 30 MPH

DESIGN TRAFFIC:

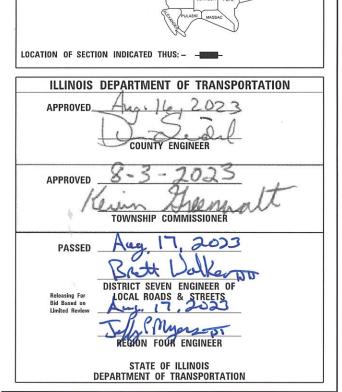
50 ADT



APPROXIMATE SCALE:

NET LENGTH OF SECTION = 300 FEET = 0.057 MILES

WARNING **CALL 811 BEFORE YOU DIG** DIG NO: A2860311





HAMPTON, LENZINI AND RENWICK, INC. RS - STRUCTURAL ENGINEERS - LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201

SPRINGFIELD, ILLINOIS 62703 217.546.3400 www.hlrengineering.com

184.000959 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

CONTRACT NO. 95923

PROJECT NUMBER: 20.0659.130 DATE: 02/03/2023

	SUMMARY OF QUANTI	TIES							
ITEM NO.	ITEM	CONSTRUCTION TYPE CODE 0010							
		UNIT	TOTAL	CULVERT	ROADWAY				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	0	6				
20200100	EARTH EXCAVATION	CU YD	370	0	370				
20700110	POROUS GRANULAR EMBANKMENT	TON	192	192	0				
20900110	POROUS GRANULAR BACKFILL	CU YD	31	31	0				
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	115	115	0				
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	220	0	220				
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	0				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20,230	20,230	0				
51500100	NAME PLATES	EACH	1	1	0				
54003000	CONCRETE BOX CULVERTS	CU YD	81.5	81.5	0				
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	79	79	0				
67100100	MOBILIZATION	L SUM	1	0	0				
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	79	79	0				
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2	0	0.2				

	0 0	EARTHW	ORK SU	MARY	-	192						
EARTH * MISC. SHRINKAGE % EARTH EMBANKMENT EARTHWORK												
LOCATION	EXCAVATION	EXCAVATION	FACTOR	USED	EXCAVATION	REQUIRED	BALANCE					
					ADJUSTED FOR		WASTE (+) OR					
					SHRINKAGE(25%)		SHORTAGE (-)					
	CUBIC YARD	CUBIC YARD			CUBIC YARD	CUBIC YARD	CUBIC YARD					
TR 259												
STA. 8+75 TO STA. 9+89.08	167		25.00%	100.00%	125	0	125					
STA. 9+89.08 TO STA. 10+10.92		79	25.00%	50.00%	30		30					
STA. 10+10.92 TO STA. 11+75	201		25.00%	100.00%	151	9	142					
EXCAVATION FROM PGE AND PGB		229	25.00%	50.00%	86		86					
TOTAL	368	308			392	9	383					
USE	370						385					

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022", THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. ALL CLEARING AND GRUBBING, FENCE REMOVAL, STUMP REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL AND DISPOSAL OF EXISTING AGGREGATE PAVEMENT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 3. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.

4. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

AGGREGATE SURFACE COURSE: 2.05 TON/CU.YD.

STONE RIPRAP 1.75 TON/CU.YD.

POROUS GRANULAR EMBANKMENT 2.0 TON/CU.YD.

- 5. THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY: SEEDING, CLASS 2(SPECIAL) = 0.2 ACRES
- 6. COMMITMENTS: NONE

TR	EE REMO	VAL SCHEDULE					
		TREE REMOVAL					
LOCA	ATION	(6 TO 15 UNITS DIAMETER)					
	_	20100110					
STATION	OFFSET	UNIT					
10+27	28 LT.	6					
TOTAL		6					

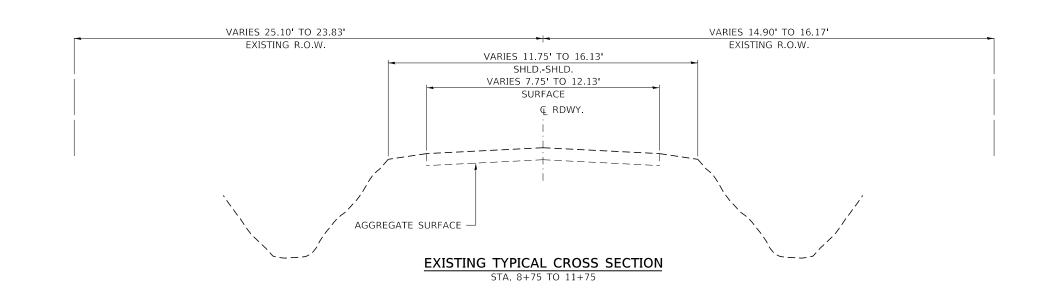
ROADWAY SCHEDU	JLE
LOCATION	AGGREGATE SURFACE COURSE TYPE B
TR 259	TON
STA. 8+75 TO STA. 11+75 (8")	220
TOTAL	220

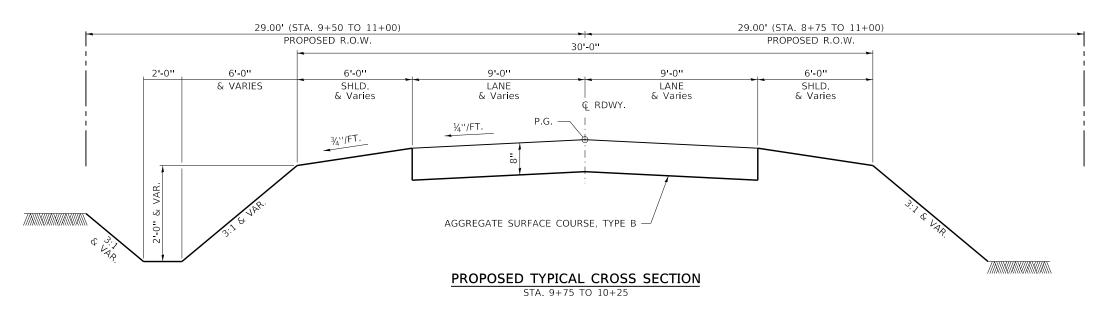
WAYNE

CONTRACT NO. 95923

18 2

FILE NAME = 200659-sht-summary.dgn	USER NAME = timk	DESIGNED J.W.F.	REVISED *						T.R.	SECTION
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.D.S.	REVISED -	STATE OF ILLINOIS	SUM	IMARY OF QUANTITIES ANI	O GENERAL N	NOTES	259	20-18113-00-BR
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED S.W.M.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT		-			ORCHAR	RD ROAD DISTRICT
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 2/24/2023	DATE 02/24/2023	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED.

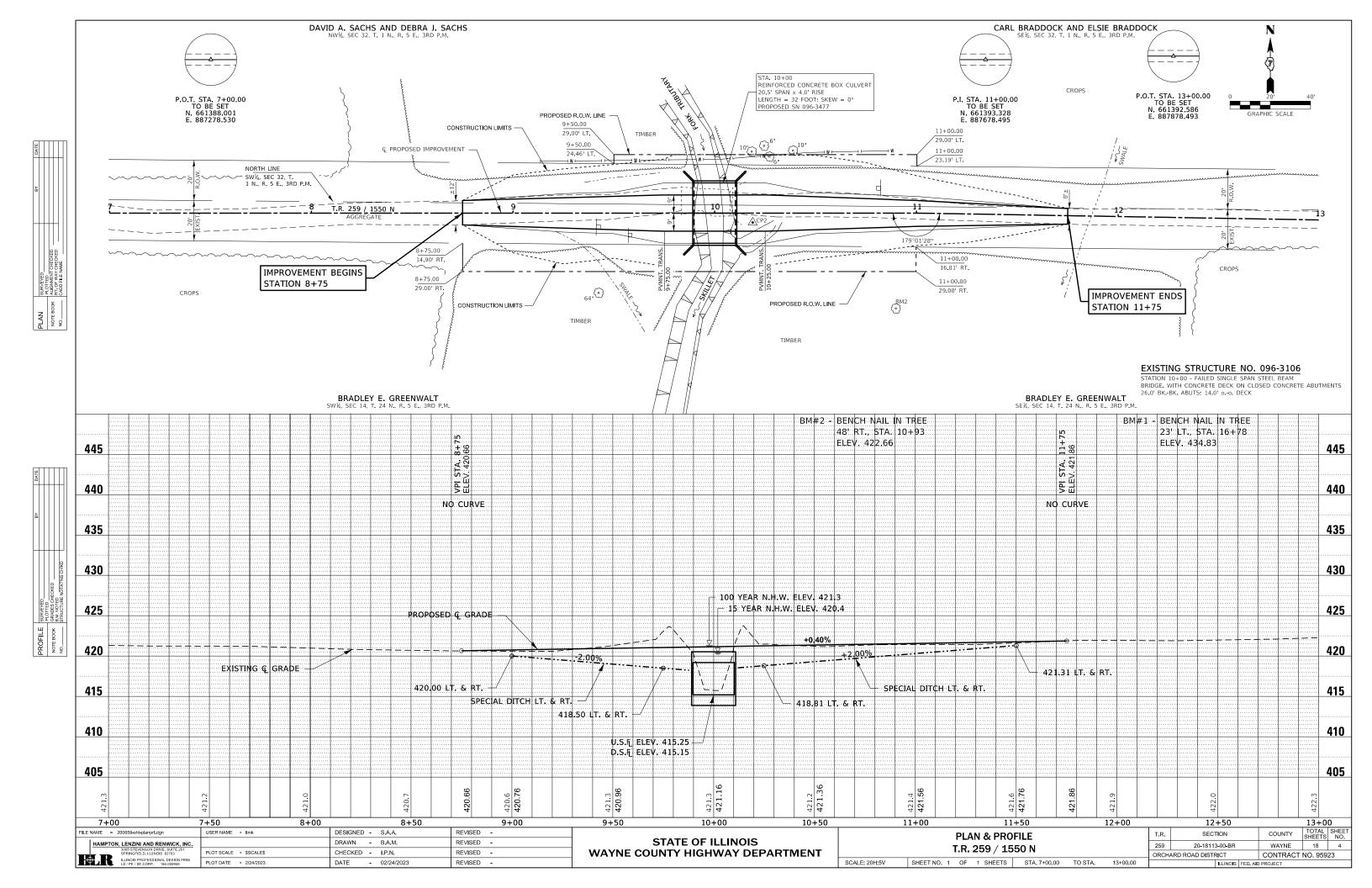


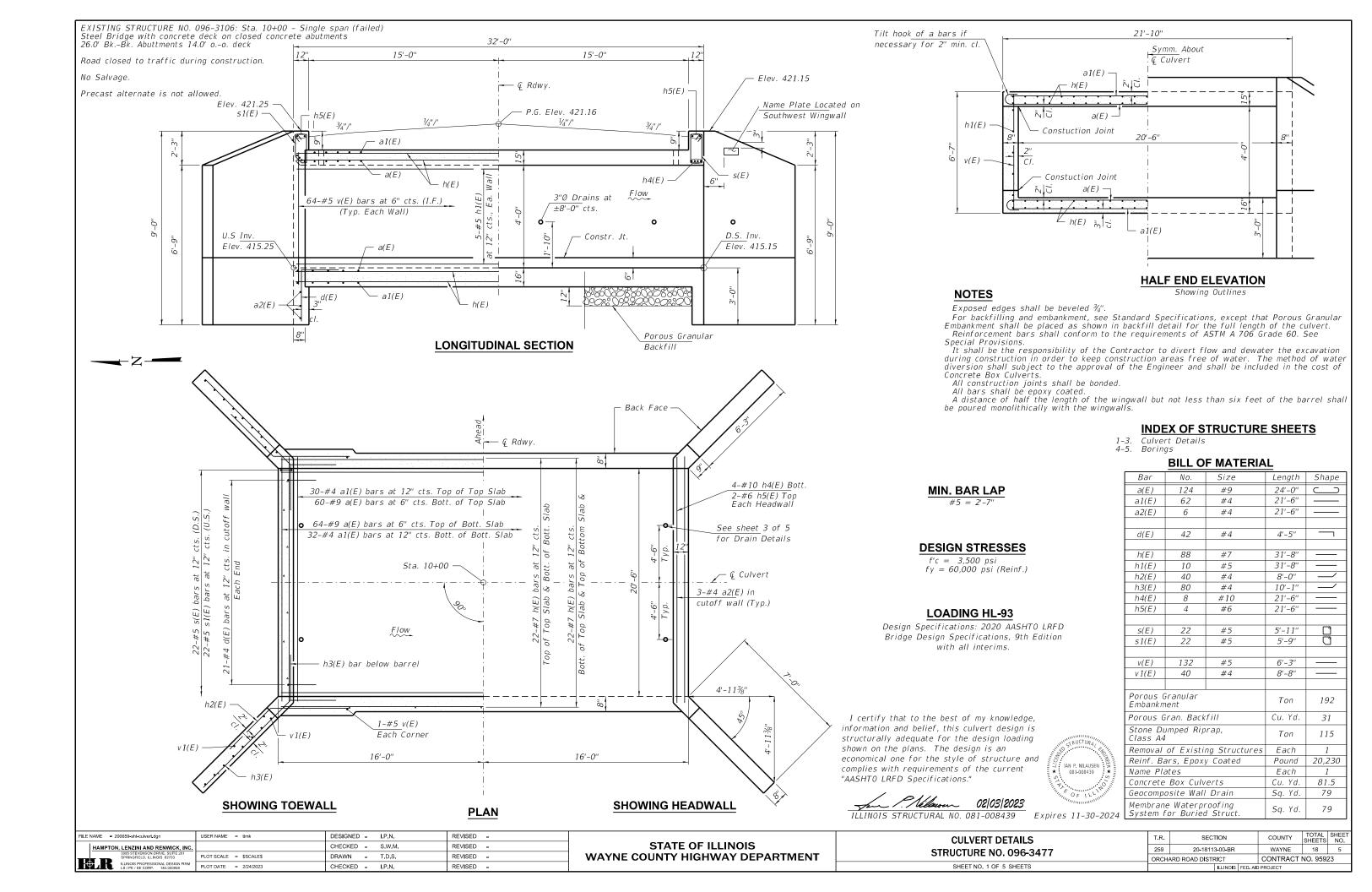


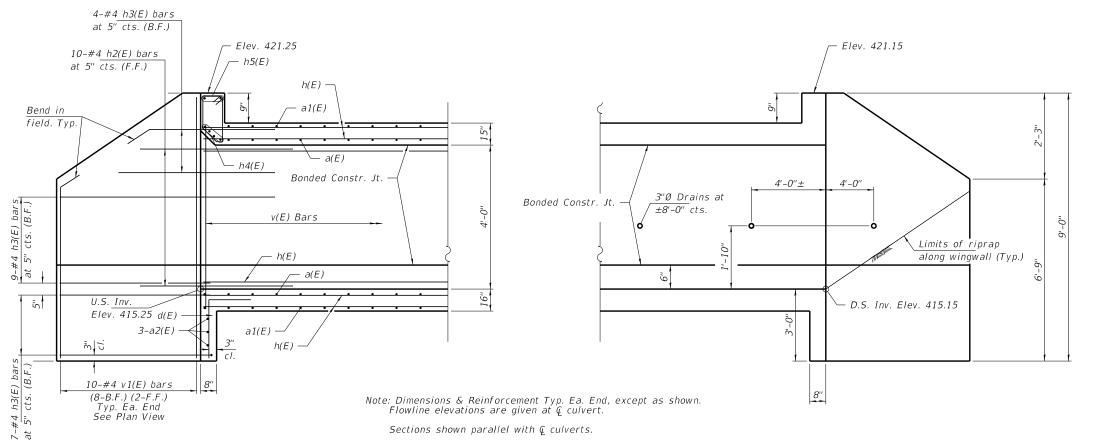
SUGGESTED CUT SECTION CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS TRANSITION FROM THE PROPOSED SURFACE AND ROADWAY TO THE EXISTING ROADWAY SHALL BE CONSTRUCTED FROM STA. 8+75 TO 9+75 AND FROM STA. 10+25 TO 11+75

SUGGESTED FILL SECTION CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS

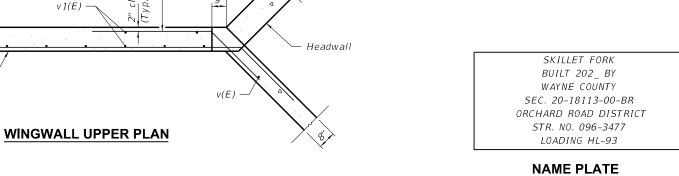
FILE NAM	E = 200659-sht-typsectlons.dgn	USER NAME = tlmk	DESIGNED - I.P.N.	REVISED -					T.R.	SECTION	COUNTY	TOTAL	SHEET
<u> H</u> /	MPTON, LENZINI AND RENWICK, INC.		DRAWN - T.D.S.	REVISED -	STATE OF ILLINOIS		TYPICAL CROSS S	SECTIONS	259	20-18113-00-BR	WAYNE	18	3
	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT				ORCHAF	RD ROAD DISTRICT	CONTRAC	T NO. 95	923
IJŧ Φ Ĺ	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 2/24/2023	DATE - 02/24/2023	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 8+75.00 TO STA. 11+75.00		ILLINOIS FED.	AID PROJECT		







WINGWALL ELEVATION



a2(E)

Cut-off wall

WINGWALL ELEVATION - SHOWING REINFORCMENT

7'-0''

v 1(E)

7'-0"

v1(E)

WINGWALL LOWER PLAN

h3(E)

h3(E)

Back Face

Back Face

− h2(E)

R. 5 E., 3RD. P.M. BAR d(E) ₩32-Proposed Bridge 096-3477 **LOCATION SKETCH** 57/8" 31/8" BAR s(E) BAR s1(E)

h2(E)

h3(E)

WATERWAY INFORMATION

Drainage Area = 0.2	2 Sq. M.	i.		Existing Low Grade Elev. 420.6 at Sta. 9+00 Proposed Low Grade Elev. 420.7 at Sta. 9+00							
Flood	Freq.	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwater El.			
F1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.		
Ten-Year	10	194	60	82	420.0	0.1	0.0	420.1	420.0		
Design	15	230	60	82	420.4	0.2	0.1	420.6	420.5		
Base	100	392	60	82	421.3	0.3	0.0	421.6	421.3		
Scour Check	200	460	60	82	421.6	0.3	0.0	421.9	421.6		
Max Calc	500	557	60	82	421.9	0.2	0.0	422.1	422.9		
Low Water Approach must remain in place											

NOTES

1. For Bill of Material and reinforcement bars summary see sheet 1 of 5.

21'-6"

BAR a(E)

5'-0"

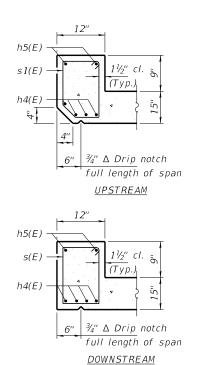
7'-1"

BARS h2(E) & h3(E)

2. B.F. denotes Back Face and F.F. denotes Front Face.

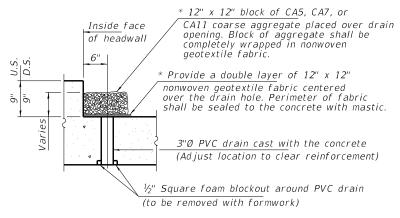
	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 2/24/2023	CHECKED - I.P.N.	REVISED -		SHEET NO. 2 OF 5 SHEETS		ILLINOIS FED. AID	PROJECT		
-	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - T.D.S.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 096-3477	ORCHARD ROA		CONTRACT	NO. 95923	
	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	· · · · · · · · · · · · · · · · · · ·	259	20-18113-00-BR	WAYNE	18	6
FIL	NAME = 200659-sht-culvert.dgn	USER NAME = tlmk	DESIGNED - I.P.N.	REVISED -		CULVERT DETAILS	T.R.	SECTION	COUNTY	SHEETS	NO

See Std. 515001



SECTION THRU HEADWALL

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

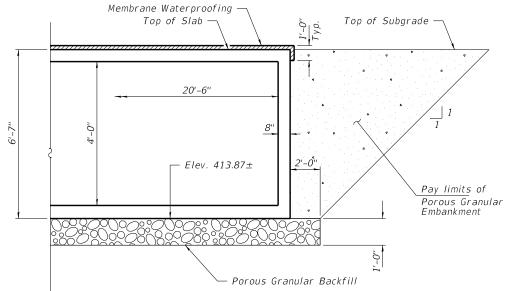


DRAIN DETAIL

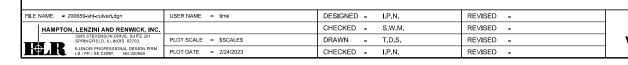
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

Drains shall be installed in each span near head walls.

Membrane waterproofing shall be omitted for the fabric, drain and aggregate block.



BACKFILL DETAIL



STATE OF ILLINOIS WAYNE COUNTY HIGHWAY DEPARTMENT

CULVERT DETAILS STRUCTURE NO. 096-3477 SHEET NO. 3 OF 5 SHEETS

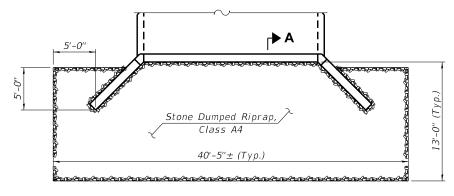
 T.R.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS
 NO.

 259
 20-18113-00-BR
 WAYNE
 18
 7

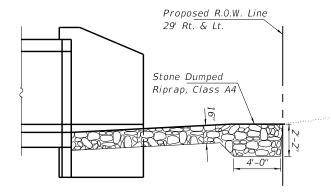
 ORCHARD ROAD DISTRICT
 CONTRACT NO. 95923

 ILLINOIS | FED. AID PROJECT

SECTION A-A







		BLE					BORING No. B-1	water	level r	eading
ENGI	INEER	ING COI	VSULTANTS	County	: Wayne,	IL	Sheet No. 1 of 3	1st er	counte	er: 7.5'
Client	t: HLR			Weathe	r: Sunny		Temperature: 30's	water	level i	reading
Driller	: Noble	Engineeri	ng Consultants	Date St	art: 1-13-	21	Surface Elevation: ~100** 421.6	At Cor	npletion	24'
Locati	on: Str.	#096-3106	Orchard Twp.	Date Fi	nished: 1	-13-21	Driller: Tony Schocker	Back	fill:	Soil
	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	Moisture %	USC Class.	cuttings Elev.**
1										99 420
2	SS-1	1.0'-2.5'	5	5-3-2	20		0.0'-2.0' Silt, Clay, Sand, Etc. FILL	28.1	FILL	98
3										97
4	SS-2	3.5'-5.0'	4	1-2-2	70	0.9	2.0'-23.0' SILTY CLAY, trace to some sand, trace gravel, wet sand seam at 7.5', medium stiff to stiff, brown to brown	21.2	CL	96
5							mottled gray			95
6	SS- 3	6.0'-7.5'	5	2-3-2	100	0.9		24.9	CL	94
7										93
8										92
9	SS-4	8.5'-10.0'	4	2-2-2	100	0.8		23.1	CL	91
10										90 411.
11										89
12										88
13										87
14	SS-5	13.5'-15.0'	7	2-3-4	100	1.0		23.9	CL	86
15										85
16										84
17										83
18										82
19	SS-6	18.5'-20.0'	8	3-3-5	100	1.2		22.8	CL	81
20										80 401.
21										79
22										78
23							22 01 07 01 01 4 V 4			77
24	SS-7	23.5'-25.0'	4	1-2-2	100	0.7	23.0'-27.8' CLAY, trace sand, trace gravel, medium stiff, gray	23.1	СН	76
25										75
26										74
27										73
28										72
29							27.8'-65.0' SILTY FINE SAND, trace gravel,			71
30	SS-8	28.5'-30.0'	24	7-10-14	100		medium gravel seam at 33', occ. clay seams, medium dense to dense, saturated, grav	21.4	SM	70 391.
		ISA (2-1/4" id		comments	* Qp test is	an estimat	e of the unconfined compressive strength performed			
)' to 78.1'				by a compa	ct calibrat	ed spring loaded cylinder			
Drill Rig	: Mobile E	3-47			-	_	ation is based upon top of east abutment elevation			
Samplin	g: split-sp	poon (SS)				100 and is	not surveyed.			

N	UE	3LE					BORING No. B-1	water	level re	eading
ENG	INEER	ING CO	VSULTANTS	County	: Wayne,	IL	Sheet No. 2 of 3	1st en	counte	r: 7.5'
Clien	t: HLR			Weathe	r: Sunny		Temperature: 30's	water	level r	eading
Drille	r: Noble	e Engineer	ing Consultants			3-21	Surface Elevation: ~100** 421.6	At completion 24'		
			06 Orchard Twp.		nished: 1		Driller: Tony Schocker		cuttings	
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery QpUS			Elev.**		
31										69 390.
32										68
33										67
34	SS-9	33.5'-35.0'	32	7-14-18	100	-		17.4	SM	66
35										65
36										64
37										63
38										62
39	SS-10	38.5'-40.0'	37	11-18-19	100	-	27.8'-65.0' SILTY FINE SAND, trace gravel, medium gravel seam at 33', occ. clay seams, medium dense to dense, saturated,	22.0	SM	61
10		•					gray			60 381.6
11										59
12										58
1 3										57
14	SS-11	43.5'-45.0'	30	12-14-16	100	-		17.1	SM	56
45										55
16										54
1 7										53
\$ 8										52
19	SS-12	48.5'-50.0'	33	38-14-19	100	-		19.9	SM	51
50										50 371.6
51										49
52										48
53			1							47
54	SS-13	53.5'-55.0'	32	11-17-15	100	-		21.4	SM	46
55										45
56										44
57										43
58										42
59										41
60	SS-14	58.5'-60.0'	36	14-17-19	100	-		20.6	SM	40361.
		SA (2-1/4" id)		comments			of the unconfined compressive strength performed			
)' to 78.1'						spring loaded cylinder			
orill Rig: Mobile B-47					** ground surface elevation is based upon top of east abutment elevation estimate of 100 and is not surveyed.					
Sampling: split-spoon (SS)					estimate of	100 and is	not surveyed.			

		3 <i>LE</i>					BORING No. B-1	water	level re	eading
ENG	INEER	ING CO	VSULTANTS	County	: Wayne,	IL	Sheet No. 3 of 3	1st en	counte	r: 7.5'
Clien	t: HLR			Weathe	r: Sunny		Temperature: 30's	water	level r	eading
Drille	r: Noble	Engineer	ing Consultants	Date St	arted: 1-1	3-21	Surface Elevation: ~100** 421.6	At con	24'	
			06 Orchard Twp.		nished: 1		Driller: Tony Schocker	BackfillSoil		cuttings
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	Moisture %		Elev.**
61										39 360.6
62										38
63										37
64	SS-15	63.5'-65.0'	29	11-14-15	100	-	27.8'-65.0' SILTY FINE SAND, trace gravel, medium gravel seam at 33', occ. clay seams, medium dense to dense, saturated,	19.4	SM	36
65							gray			35
66										34
67										33
68										32
69	SS-16	68.5'-70.0'	17	8-8-9	100	1.0	65.0'-72.4' SILTY CLAY, trace to some sand, trace gravel, stiff, gray	23.7	CL	31
70										30 351.6
71										29
72		•		•						28
73										27
74	SS-17	73.5'-75.0'	100+	68-100/5"	60	-	72.4'-78.1' WEATHERED SHALE, gray			26
75										25
76										24
77										23
78										22
79										21
80										20 341.6
81										
82			1							
83										
84										
85										
86										
87										
88										
89										
90										
Drilling	Method: H	SA (2-1/4" id)		comments	[†] Op test is a	n estimate	of the unconfined compressive strength performed			
)' to 78.1'						spring loaded cylinder			
	Mobile B-	47					tion is based upon top of east abutment elevation			
_	g: split-spo						not surveyed.			
	J	(,				421.6				
	1					~~ * * * V		1		4

BORING 1

FILE NAME = 2	200659-sht-culvert.dgn	USER NAME = tlmk	DESIGNED -	I.P.N.	REVISED -
НАМРТО	N, LENZINI AND RENWICK, INC.		CHECKED -	S.W.M.	REVISED -
	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN -	T.D.S.	REVISED -
HER	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 2/24/2023	CHECKED -	I.P.N.	REVISED -

STATE OF ILLINOIS								
WAYNE COUNTY HIGHWAY DEPARTMENT								

BORING 1	T.R.	SECTION	SECTION			SHEE		
STRUCTURE NO. 096-3477	259	20-18113-00-BR	WAYNE	18	8			
511(00101)L 110: 050-5477	ORCHARD ROAD DISTRICT			CONTRACT NO. 95923				
SHEET NO. 4 OF 5 SHEETS		ILLINOIS	FED. AID PROJECT					

COUNTY TOTAL SHEETS NO.

WAYNE 18 8

Ι¥	UE	BLE		County: Wayne, IL			BORING No. B-2		level r	eading
ENG	INEER	ING COI	VSULTANTS				Sheet No. 1 of 3	1st encounter: 24'		
Clien	t: HLR			Weathe	r: Sunny		Temperature: 30's	water	level	reading
Driller: Noble Engineering Consultants				Date Start: 1-13-21 Date Finished: 1-13-21			Surface Elevation: ~100** 421.6	At Cor	npletior	Dry cave
Location: Str. #096-3106 Orchard Twp. Depth: Sample Sample Perth No. Perth			Driller: Tony Schocker				Back		Soil	
		Sample Sample N. Malua Blow Recovery Qp		Moisture	USC Class.	cuttings Elev.**				
1		· ·			,	,	·	1.0		99 420
2	SS-1	1.0'-2.5'	3	3-1-2	20	-	0.0'-2.5' Silt, Clay, Sand, Etc. FILL	13.1	FILL	98
3										97
4	SS-2	3.5'-5.0'	7	3-3-4	100	0.9	2.5'-19.1' SILTY CLAY, trace to some sand, trace gravel, wet sand seam at 7.5', medium stiff to stiff, brown to brown	19.8	CL	96
5							mottled gray			95
6	SS-3	6.0'-7.5'	7	2-3-4	100	1.0		23.6	CL	94
7										93
8		1						-		92
9	SS-4	8.5'-10.0'	7	2-3-4	100	1.0		19.1	CL	91
10										90 411
11										89
12										88
13										87
14	SS-5	13.5'-15.0'	10	2-4-6	100	1.3		20.5	CL	86
15										85
16										84
17										83
18			Г							82
19	SS-6	18.5'-20.0'	5	2-2-3	100	0.8	19.1'-24.0' CLAY, trace sand, trace gravel, medium stiff, gray	23.9	СН	81
20										80 401.
21										79
22										78
23	SS-7	23.5'-25.0'	12	2-6-6	100	-	24.0'-31.2' SILTY FINE SAND, trace gravel, medium dense, saturated gray	23.1	SM	77
25							,	-		75
26								_		74
27										73
28										72
29										71
30	SS-8	28.5'-30.0'	17	7-8-9	100	-		15.4	SM	70 391.
Orilling	Method:HS	SA (2-1/4" id)		comments	* Op test is a	n estimate	of the unconfined compressive strength performed			
Depth: (0' to 79.9'				by a compa	act calibrate	ed spring loaded cylinder			
Orill Rig	: Mobile B-	47			** ground sur	face elevat	tion is based upon top of west abutment elevation			
Sampling: split-spoon (SS)					estimate of 100 and is not surveyed.					

NOBLE							BORING No. B-2	water level reading				
ENG	INEER	ING CO	<i>NSULTANTS</i>	County	: Wayne,	IL	Sheet No. 2 of 3	1st en	counte	r: 24'		
Clien	t: HLR			Weather: Sunny			Temperature: 30's	water level reading				
Drille	r: Noble	Engineer	ing Consultants				Surface Elevation: ~100** 421.6	At com	pletion	Dry cave		
Location:Str. # 096-3106 Orchard Twp. Depth: Sample Sample Depth No.			Date Finished: 1-13-21			Driller: Tony Schocker	BackfillSoil		cuttings			
Depth:		Sample Depth	N-Value	Blow Count	Recovery Qp		Recovery Qp		Moisture %		Elev.**	
31										69 390		
32							24.0'-31.2' SILTY FINE SAND, trace gravel, medium dense, saturated gray			68		
33										67		
34	SS-9	33.5'-35.0'	15	5-6-8	100	1.4		19.4	CL	66		
35										65		
36										64		
37										63		
38			1							62		
39	SS-10	38.5'-40.0'	14	6-7-7	100	1.4	31.2'-40.9' CLAY, trace to some sand, trace gravel, occ. wet sand seams, stiff,	20.3	CL	61		
40			I				gray			60 381		
41										59		
42				-						58		
43										57		
44	SS-11	43.5'-45.0'	34	12-16-18	100	-	40.9'-67.1' SILTY FINE SAND, trace gravel, occ. gravel seams, dense, saturated, gray	14.7	SM	56		
45										55		
46										54		
47										53		
48										52		
49	SS-12	48.5'-50.0'	38	15-19-19	100	-		17.4	SM	51		
50										50 371		
51										49		
52										48		
53			I							47		
54	SS-13	53.5'-55.0'	39	14-15-24***	100	-		11.5	SM	46		
55										45		
56										44		
57										43		
58										42		
59										41		
60	SS-14	58.5'-60.0'	33	8-14-19	100	-		14.9	SM	40 361		
		SA (2-1/4" id)		comments			of the unconfined compressive strength performed					
)' to 79.9'	L					spring loaded cylinder					
	Mobile B-						tion is based upon top of west abutment elevation not surveyed.					
Samplin	g: split-spo	oon (SS)		-	***rock in sh		·					

							T					
N	NOBLE						BORING No. B-2	water level reading				
ENG	INEER	RING CO	NSULTANTS	County: Wayne, IL Weather: Sunny Date Started: 1-13-21			Sheet No. 3 of 3	1st en	counte	er: 24'		
	t: HLR						Temperature: 30's	_		reading		
		e Engineer	ring Consultants				Surface Elevation: ~100** 421.6	_		Dry cave		
	Location:Str. # 096-3106 Orchard Twp. Depth: Sample Depth No. N-Value						Driller: Tony Schocker			cuttings		
Sample Sample N Volus			Blow Recovery Qp Count (%) (tsf)*			Soil Description	usc		Elev.**			
61								1		39 360.6		
62										38		
63										37		
64	SS-15	63.5'-65.0'	34	14-16-18	100	-	40.9'-67.1' SILTY FINE SAND, trace gravel, occ. gravel seams, dense, saturated, gray	18.9	SM	36		
65										35		
66										34		
67										33		
68			1							32		
69	SS-16	68.5'-70.0'	16	5-8-8	100	1.1	67.1'-72.5' SILTY CLAY, trace to some sand, trace gravel, stiff, gray	22.5	CL	31		
70			1							30 351.6		
71										29		
72			•							28		
73										27		
74	SS-17	73.5'-75.0'	100+	87-100/5"	80	-	72.5'-79.9' WEATHERED SHALE, gray			26		
75										25		
76										24		
77								_		23		
78								_		22		
79	SS-18	78.5'-80.0'	100+	100/5"	60	-				21		
80										20 341.6		
81												
82												
83		1						-				
84												
85												
86												
87												
88								-				
89								-				
90												
_		SA (2-1/4" id)		comments	* Op test is a	n estimate	of the unconfined compressive strength performed					
)' to 79.9'						l spring loaded cylinder					
	: Mobile B-				** ground su							
Samplin	g: split-sp	oon (SS)					not surveyed.	-				
				421.6								

COUNTY TOTAL SHEET NO.

WAYNE 18 9

BORING 2

Ŀ	ILLINOIS PROFESSIONAL DESIGN FIF LS / PE / SE CORP. 184.000959	PLOT DATE = 2/24/2023 CHECKED - I.P.N. REVISED -			SHEET NO. 5 OF 5 SHEETS		ILLINOIS FED. AI	AID PROJECT				
-	SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN -	T.D.S.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT	51KUCTUKE NO. 030-3477	ORCHARD ROAD DISTRICT		CONTRACT NO. 959		<i>j</i>
	HAMPTON, LENZINI AND RENWICK, IN	<u>5.</u>	CHECKED -	S.W.M.	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 096-3477	259	20-18113-00-BR	WAYNE	18	9
	ILE NAME = 200659-sht-culvert.dgn	USER NAME = tlmk	DESIGNED -	I.P.N.	REVISED -		BORING 2	T.R.	SECTION	COUNTY	SHEETS	NO.

