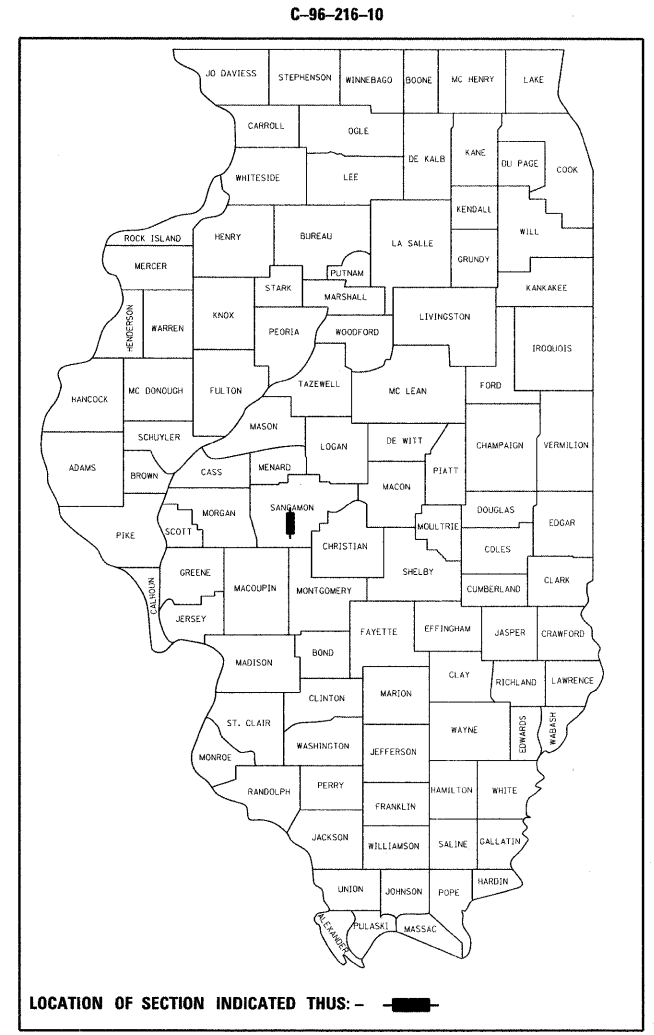


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	1
PROJECT		ILLINOIS	CONTRACT NO. 93516	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR
PROPOSED LOCAL AGENCY IMPROVEMENTS
AMERICAN RECOVERY & REINVESTMENT ACT**

**GORDON DRIVE / FAU ROUTE 8153
SECTION 09-00028-01-DR
VILLAGE OF CHATHAM
PROJECT ARA-5082(009)
JOB NUMBER C-96-216-10**



INDEX OF SHEETS

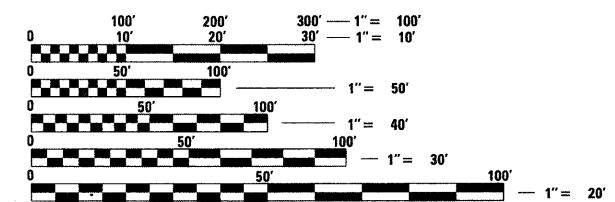
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES & GENERAL NOTES
3 - 5	TYPICAL SECTIONS
6	ALIGNMENT AND TIES
7 - 8	PLAN AND PROFILE SHEETS
9	REMOVAL AND ADJUSTMENT PLAN (S.N. 084-8011)
10	EROSION CONTROL (S.N. 084-8011)
11	REMOVAL AND EROSION CONTROL PLAN (5' X 3' BOX)
12	DETOUR PLAN
13 - 21	BOX CULVERT PLANS
22 - 32	CROSS SECTIONS

STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701301-03	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO LANE, TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)
BLR 26-2	STEEL PLATE BEAM GUARDRAIL 27 1/2" HEIGHT

UTILITIES

TELEPHONE	ELECTRIC, WATER & SEWER	ELECTRIC
VERIZON 330 WEST BEECHER JACKSONVILLE, IL 62650	VILLAGE OF CHATHAM 116 EAST MULBERRY CHATHAM, IL 62629	CENTRAL ILLINOIS LIGHT CO. 322 E. CAPITAL SPRINGFIELD, IL
GAS AMEREN 322 EAST CAPITOL SPRINGFIELD, IL 62701	CABLE TV INSIGHT COMMUNICATIONS SPRINGFIELD, IL	RURAL ELECTRIC CO-OP RURAL ROUTE 1 AUBURN, IL



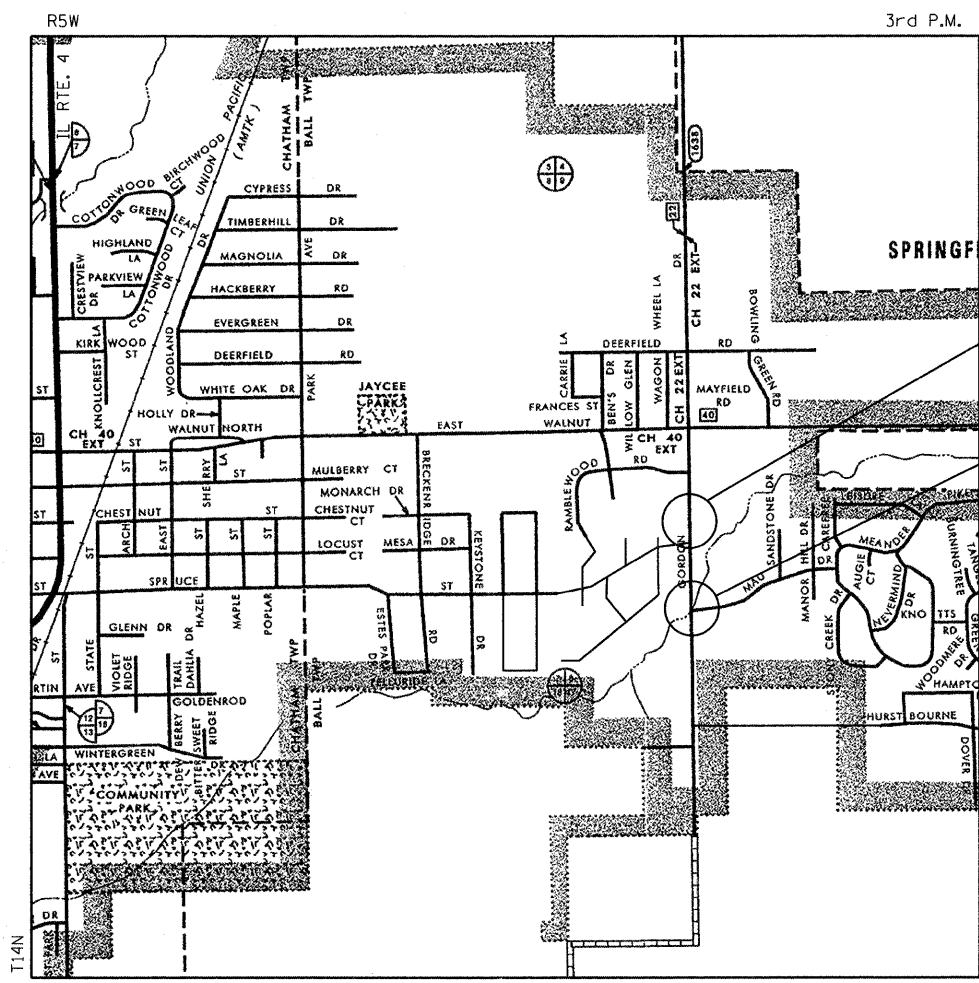
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

**PROJECT ENGINEER
PROJECT MANAGER**

DESIGN DESIGNATION
MINOR ARTERIAL (ADT 4450 (27))
DESIGN SPEED = 30 MPH

CONTRACT NO. 93516

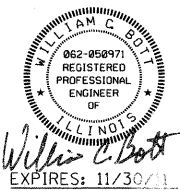


5' X 3' PRC BOX CULVERT
STA. 50+33.42

STRUCTURE NO. 084-8011
STATION 41+97.55
MODIFICATION TO TRIPLE BARREL
(10'x7' x 134' LONG) RC BOX CULVERT

LOCATION MAP

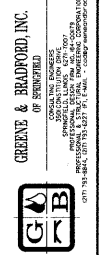
GROSS LENGTH = 1,056.00 FEET = 0.200 MILES
NET LENGTH = 474.00 FEET = 0.090 MILES



APPROVED	<i>Nov. 24</i>	20 09
VILLAGE PRESIDENT		
PASSED	<i>Nov 30</i>	20 09
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS		
PASSED	<i>November 30</i>	20 09
DISTRICT SIX ENGINEER OF CONSTRUCTION		
Releasing For Bid Based on Limited Review	<i>Nov 30</i>	20 09
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER		
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

COMPUTER FILE NO. 06167-sht-Cover.dgn
PROJECT 06167
11/18/09 - FAV



SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE:	
PAY ITEM	ITEM	UNIT	TOTAL	X028-2A	1000
				SN 084-0811	5' X 3' BOX
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	32	32	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24	24	
20100500	TREE REMOVAL, ACRES	ACRE	0.2		0.2
20200100	EARTH EXCAVATION	CU YD	28	15	13
20300100	CHANNEL EXCAVATION	CU YD	549	514	35
20400800	FURNISHED EXCAVATION	CU YD	437	363	74
20800150	TRENCH BACKFILL	CU YD	325	95	230
25000900	SEEDING, CLASS 1 (SPECIAL)	ACRE	0.9	0.7	0.2
28000400	PERIMETER EROSION BARRIER	FOOT	345	215	130
28100107	STONE RIPRAP, CLASS A4	SQ YD	953	900	53
28200200	FILTER FABRIC	SQ YD	953	900	53
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	328	164	164
48101200	AGGREGATE SHOULDERS, TYPE B	TON	150	70	80
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	27.5	27.5	
50200100	STRUCTURE EXCAVATION	CU YD	1,180	900	280
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58,970	58,970	
51500100	NAME PLATES	EACH	1	1	
54001000	BOX CULVERT END SECTIONS	EACH	2		2
54002020	EXPANSION BOLTS, 3/4"	EACH	104	104	
54003000	CONCRETE BOX CULVERTS	CU YD	353.0	353.0	
54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	FOOT	90		90
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1	
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	2		2
63200310	GUARDRAIL REMOVAL	FOOT	262.5	262.5	
△ 63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	37.5	37.5	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	0.5	0.5
△ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2		2
X0320598	TEMPORARY STEEL SHEET PILING (TO REMAIN IN PLACE)	SQ FT	1,088		1,088
X0323265	REMOVE EXISTING RIPRAP	SQ YD	470	470	

• SPECIAL PROVISION
△ SPECIALTY ITEMS

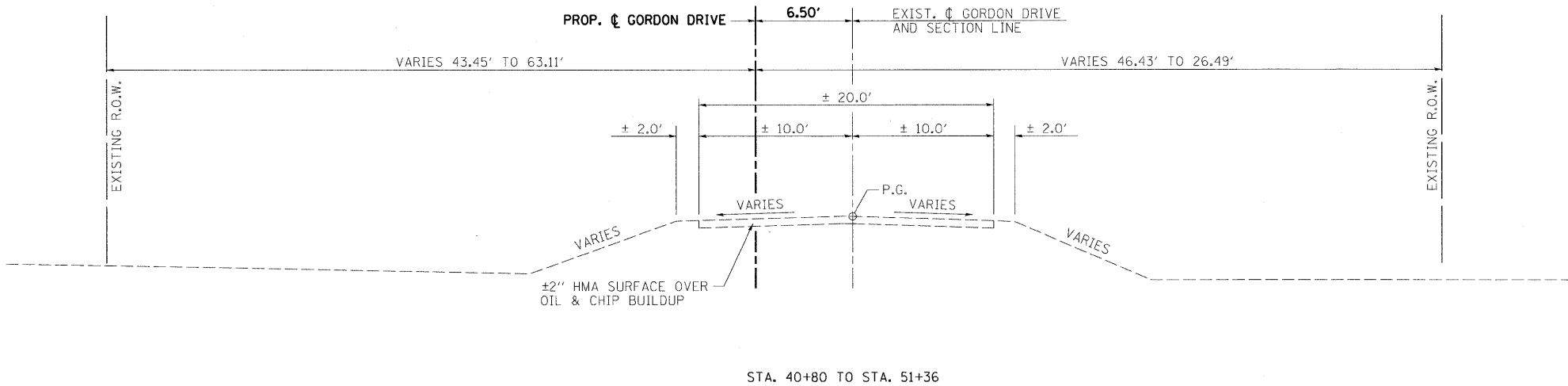
GENERAL NOTES

- WHEN SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- ALL PLAN ELEVATIONS REPRESENT USGS DATUM.
- SEE SPECIAL PROVISIONS FOR SEEDING RATES.
- THE FOLLOWING APPLICATIONS RATES WERE USED IN THE DEVELOPMENT OF PLAN QUANTITIES:

COARSE AGGREGATE 2.05 TON / CU YD
STONE RIPRAP, CLASS A4 1.5 TON / CU YD

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	VOIDS
CLASS "D" PATCHES	IL - 19.0	PG 64-22	4.0% @ N50 DESIGN

EXISTING TYPICAL SECTIONS



STA. 40+80 TO STA. 51+36

GREENE & BRADFORD, INC.
 of BRADFORD
INCORPORATED IN ILLINOIS
 1000 WEST WASHINGTON STREET
 DEERFIELD, ILLINOIS 60015
 PHONE: 847.970.1234 FAX: 847.970.1235
 WWW.GREENE-AND-BRADFORD.COM

FILE NAME =	USER NAME = frankv	DESIGNED - WCB	REVISED -
J:\06167\DRAWINGS\06167-shr-typical.dgn		DRAWN - MDS	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED - WCB	REVISED -
	PLOT DATE = 11/19/2009	DATE - 10/02/09	REVISED -

VILLAGE OF CHATHAM GORDON DRIVE IMPROVEMENTS

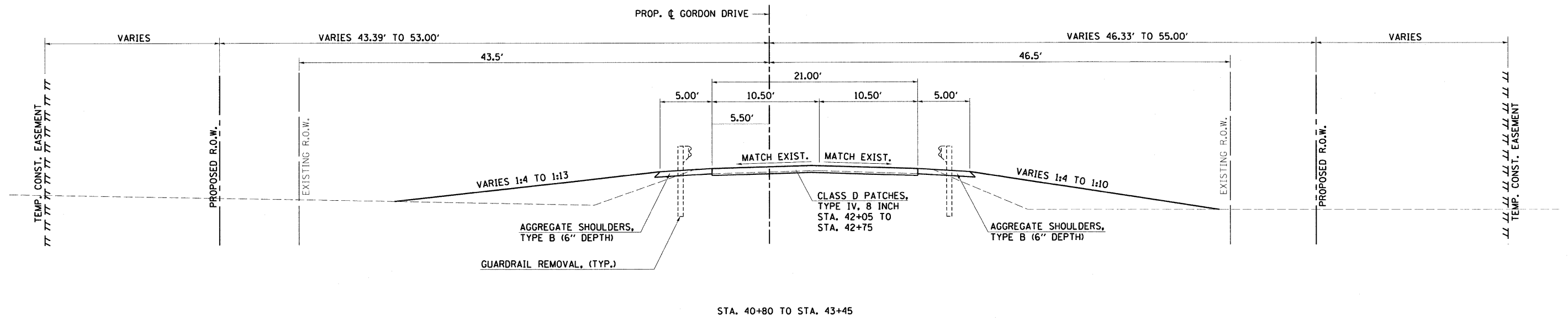
TYPICAL SECTIONS

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93516	
			ARA-5082(009)	

PLOT DRIVER = vb1_T0S700_PS_LOCAL_IDOT.pltcf

PROPOSED TYPICAL SECTIONS



FILE NAME = J:\06167\DRAWINGS\06167-shr-Typical.dgn
 USER NAME = frankv
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 11/19/2009

DESIGNED - WCB
 DRAWN - MDS
 CHECKED - WCB
 DATE - 10/02/09

REVISED -
 REVISED -
 REVISED -
 REVISED -

VILLAGE OF CHATHAM GORDON DRIVE IMPROVEMENTS

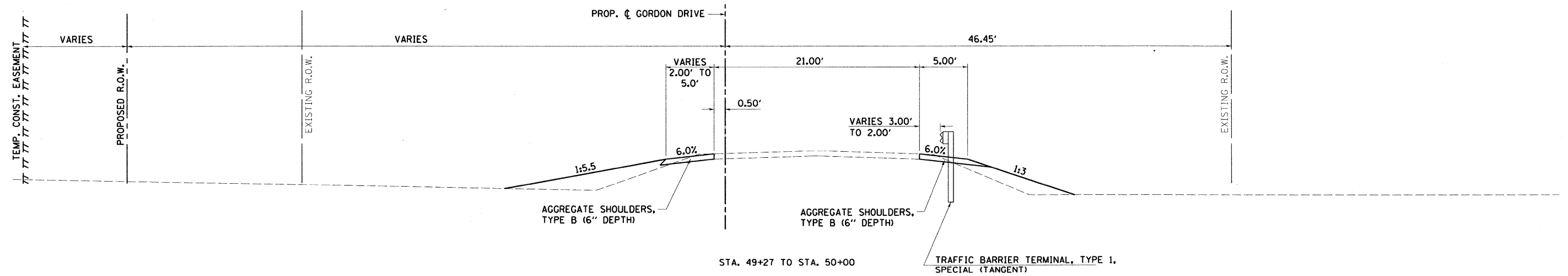
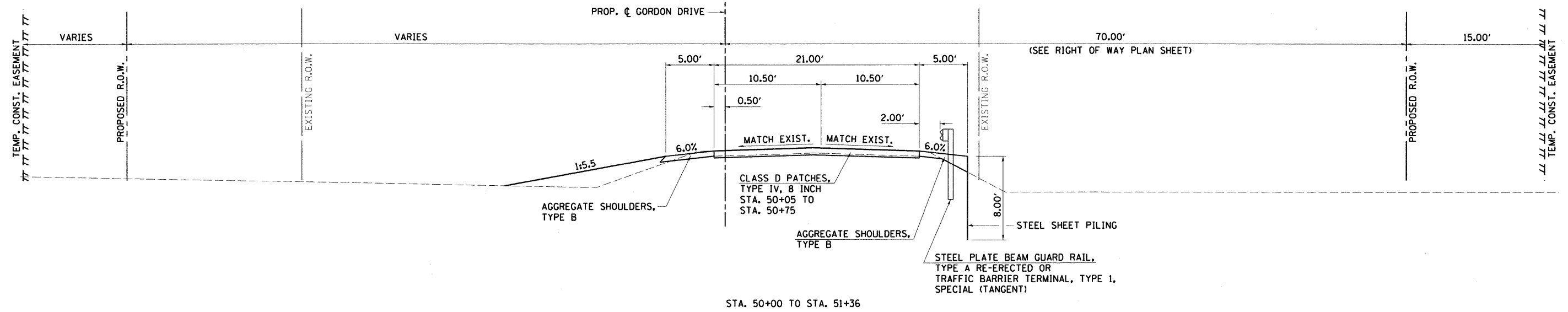
TYPICAL SECTIONS

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-5082(009)			CONTRACT NO. 93516	

PLOT DRIVER = V81.TDS700.PS.LOCAL.1001.plt:efg

PROPOSED TYPICAL SECTIONS



GREENE & BRADFORD, INC.
OF WENDELL, N.C.
REGISTERED PROFESSIONAL ENGINEERS
REGISTERED PROFESSIONAL SURVEYORS
REGISTERED PROFESSIONAL LAND SURVEYORS
REGISTERED PROFESSIONAL GEODETIC SURVEYORS
REGISTERED PROFESSIONAL CIVIL ENGINEERS
REGISTERED PROFESSIONAL ARCHITECTS
REGISTERED PROFESSIONAL INTERIOR DESIGNERS
REGISTERED PROFESSIONAL PLANNERS
REGISTERED PROFESSIONAL ENVIRONMENTAL ENGINEERS
REGISTERED PROFESSIONAL ELECTRICAL ENGINEERS
REGISTERED PROFESSIONAL MECHANICAL ENGINEERS
REGISTERED PROFESSIONAL CHEMICAL ENGINEERS
REGISTERED PROFESSIONAL INDUSTRIAL ENGINEERS
REGISTERED PROFESSIONAL METALLURGICAL ENGINEERS
REGISTERED PROFESSIONAL AERONAUTICAL ENGINEERS
REGISTERED PROFESSIONAL AGRICULTURAL ENGINEERS
REGISTERED PROFESSIONAL FOOD ENGINEERS
REGISTERED PROFESSIONAL TEXTILE ENGINEERS
REGISTERED PROFESSIONAL PAPER ENGINEERS
REGISTERED PROFESSIONAL PETROLEUM ENGINEERS
REGISTERED PROFESSIONAL NUCLEAR ENGINEERS
REGISTERED PROFESSIONAL MARINE ENGINEERS
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REGISTERED PROFESSIONAL TELECOMMUNICATIONS ENGINEERS
REGISTERED PROFESSIONAL TRANSPORTATION ENGINEERS
REGISTERED PROFESSIONAL WATER RESOURCES ENGINEERS
REGISTERED PROFESSIONAL WASTE ENGINEERS
REGISTERED PROFESSIONAL POLYMER ENGINEERS
REGISTERED PROFESSIONAL PLASTICS ENGINEERS
REGISTERED PROFESSIONAL RUBBER ENGINEERS
REGISTERED PROFESSIONAL GLASS ENGINEERS
REGISTERED PROFESSIONAL CERAMIC ENGINEERS
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REGISTERED PROFESSIONAL CONSTRUCTION ARCHITECTURE ARCHITECTURE ENGINEERS

FILE NAME = J:\06167\DRAWINGS\06167-shr-Typical.dgn	USER NAME = frankv	DESIGNED - WCB	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - WCB	DRAWN - MDS	REVISED -
PLOT DATE = 11/19/2009	DATE - 10/02/09		REVISED -

VILLAGE OF CHATHAM GORDON DRIVE IMPROVEMENTS

TYPICAL SECTIONS

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 8153	SECTION 09-00028-01-DR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-5082(009)			CONTRACT NO. 93516	

Chain G65W contains:
8001 CUR G65W1 CUR G65W2 CUR G65W3 CUR G65W4 8065

Beginning chain G65W description

Point 8001 N 1,091,862.2441 E 2,433,238.5646 Sta 13+38.92

Course from 8001 to PC G65W1 N 0° 59' 37.68" W Dist 2,000.0000

Curve Data

Curve G65W1
P.I. Station 34+38.96 N 1,093,961.9655 E 2,433,202.1411
Delta = 1° 30' 58.45" (LT)
Degree = 0° 45' 28.37"
Tangent = 100.0372
Length = 200.0628
Radius = 7,560.0000
External = 0.6618
Long Chord = 200.0570
Mid. Ord. = 0.6618
P.C. Station 33+38.92 N 1,093,861.9433 E 2,433,203.8762
P.T. Station 35+38.98 N 1,094,061.9068 E 2,433,197.7601
C.C. N 1,093,730.8210 E 2,425,645.0134
Back = N 0° 59' 37.68" W
Ahead = N 2° 30' 36.14" W
Chord Bear = N 1° 45' 06.91" W

Curve Data

Curve G65W2
P.I. Station 36+39.10 N 1,094,161.9280 E 2,433,193.3755
Delta = 1° 44' 45.87" (RT)
Degree = 0° 52' 19.49"
Tangent = 100.1173
Length = 200.2190
Radius = 6,570.0000
External = 0.7628
Long Chord = 200.2113
Mid. Ord. = 0.7627
P.C. Station 35+38.98 N 1,094,061.9068 E 2,433,197.7601
P.T. Station 37+39.20 N 1,094,262.0363 E 2,433,192.0406
C.C. N 1,094,349.6360 E 2,439,761.4566
Back = N 2° 30' 36.14" W
Ahead = N 0° 45' 50.27" W
Chord Bear = N 1° 38' 13.20" W

Course from PT G65W2 to PC G65W3 N 0° 45' 50.27" W Dist 1,520.3380

Curve Data

Curve G65W3
P.I. Station 53+59.69 N 1,095,882.3750 E 2,433,170.4342
Delta = 3° 26' 05.36" (RT)
Degree = 1° 42' 55.59"
Tangent = 100.1447
Length = 200.2295
Radius = 3,340.0000
External = 1.5010
Long Chord = 200.1995
Mid. Ord. = 1.5003
P.C. Station 52+59.54 N 1,095,782.2392 E 2,433,171.7695
P.T. Station 54+59.77 N 1,095,982.4110 E 2,433,175.1008
C.C. N 1,095,826.7724 E 2,436,511.4726
Back = N 0° 45' 50.27" W
Ahead = N 2° 40' 15.09" E
Chord Bear = N 0° 57' 12.41" E

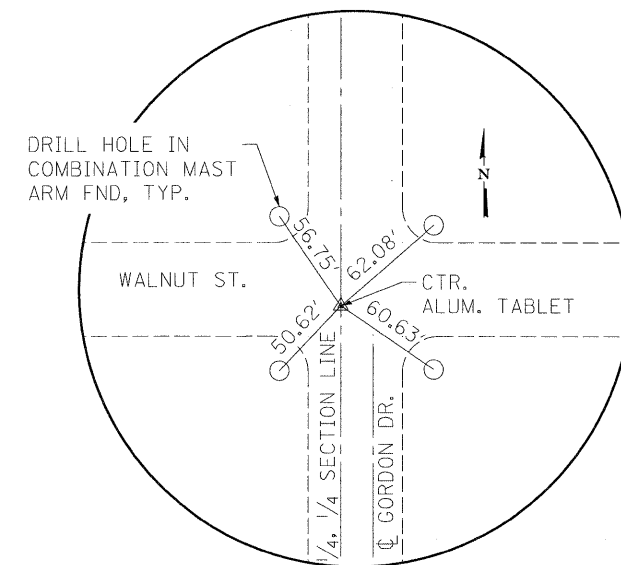
Curve Data

Curve G65W4
P.I. Station 55+59.92 N 1,096,082.4469 E 2,433,179.7674
Delta = 3° 26' 05.36" (LT)
Degree = 1° 42' 55.59"
Tangent = 100.1447
Length = 200.2295
Radius = 3,340.0000
External = 1.5010
Long Chord = 200.1995
Mid. Ord. = 1.5003
P.C. Station 54+59.77 N 1,095,982.4110 E 2,433,175.1008
P.T. Station 56+60.00 N 1,096,182.5828 E 2,433,178.4321
C.C. N 1,096,138.0496 E 2,429,838.7290
Back = N 2° 40' 15.09" E
Ahead = N 0° 45' 50.27" W
Chord Bear = N 0° 57' 12.41" E

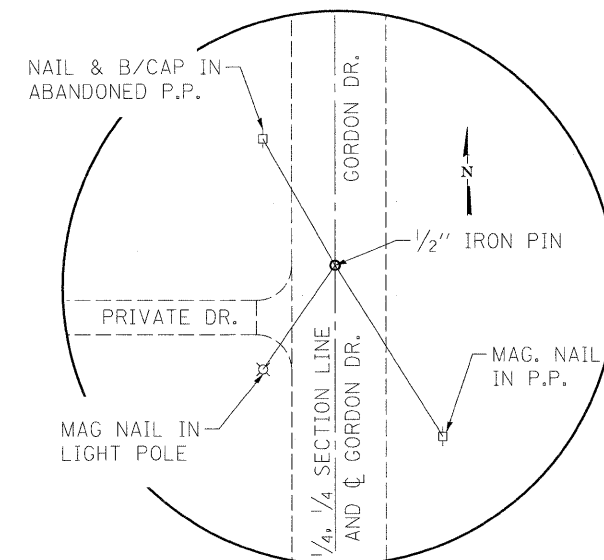
Course from PT G65W4 to 8065 N 0° 45' 50.27" W Dist 340.0000

Point 8065 N 1,096,522.5525 E 2,433,173.8988 Sta 60+00.00

Ending chain G65W description



STA. 60+00.00, 5.50' LT
N.W. CORNER E 1/2, S.W. 1/4,
SEC. 8, T14N, R5W
N - 1,096,522.4792
E - 2,433,168.3993



P.C. STA. 33+38.92
N.W. CORNER E 1/2, N.W. 1/4,
SEC. 17, T14N, R5W
N - 1,093,861.9433
E - 2,433,203.8762



FILE NAME = J:\06167\DRAWINGS\06167-shr-ATB.dgn	USER NAME = frankv	DESIGNED - WCB	REVISED -
		DRAWN - FAV	REVISED -
		CHECKED - WCB	REVISED -
		DATE - 10/07/09	REVISED -

VILLAGE OF CHATHAM
GORDON DRIVE IMPROVEMENTS

ALIGNMENT & TIES

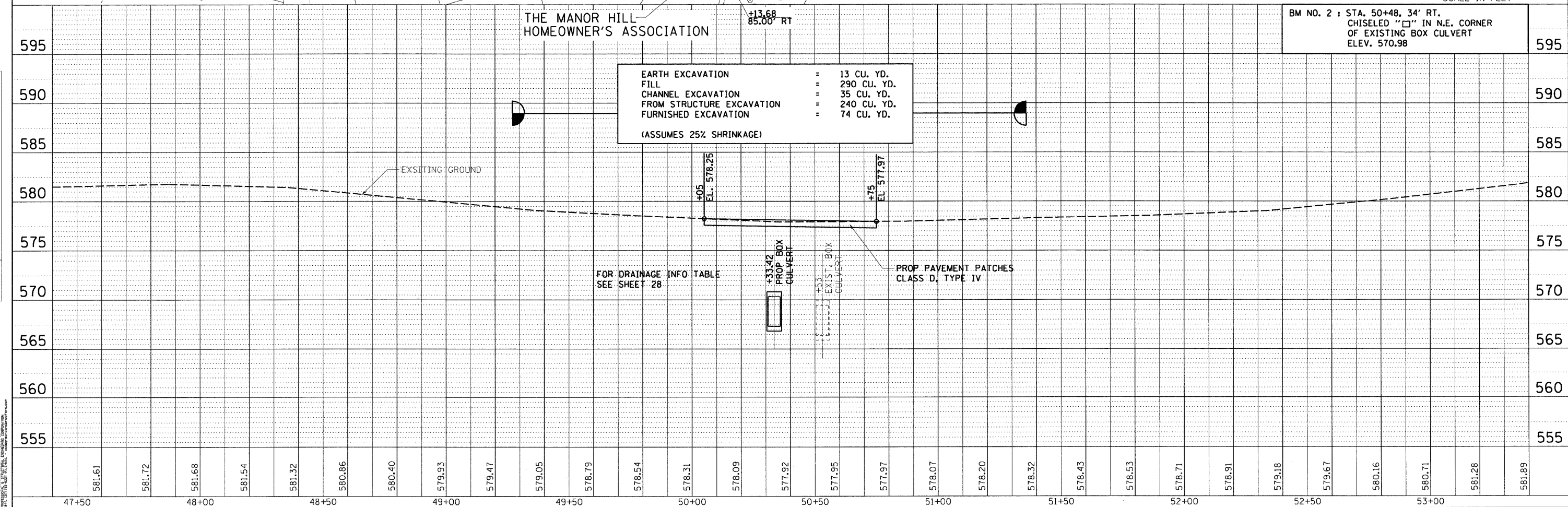
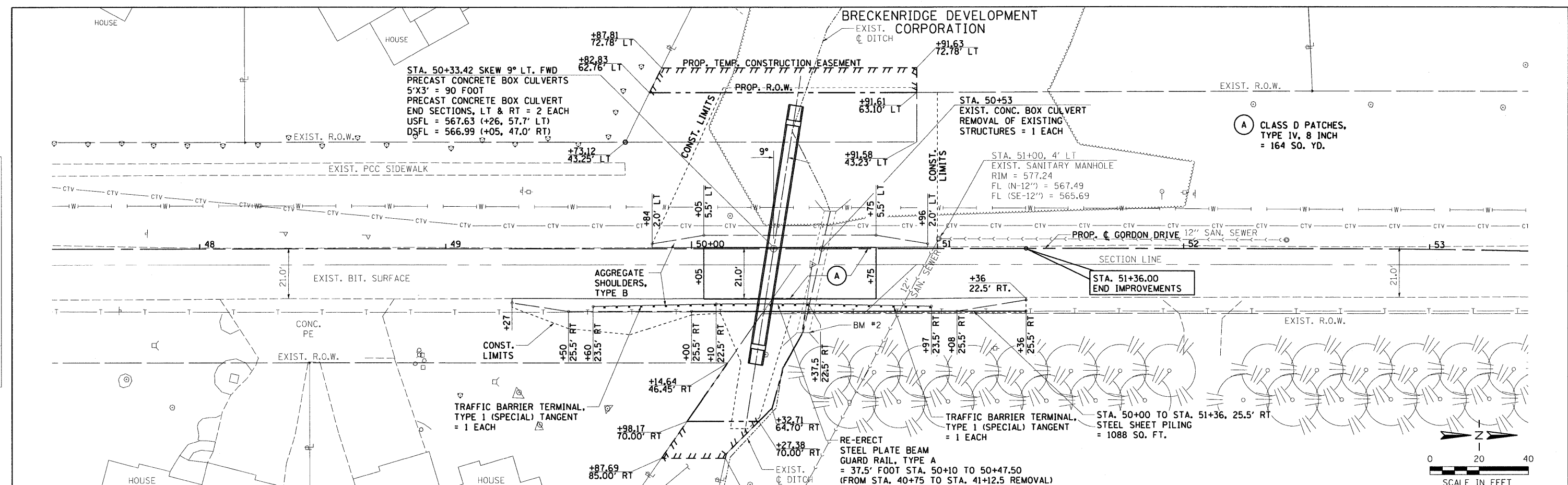
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 8153	SECTION 09-00028-01-DR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 6
CONTRACT NO. 93516				

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	CHECKED		
	RT. OF WAY		
	CHECKED		
	NO.		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	NOTED		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHECKED		
	NO.		

GREENE & BRADFORD, INC.
 OF BREWSTER
 1000 WEST 10TH STREET
 SUITE 200
 WYOMING, MISSOURI 64481
 781-764-4444 FAX 781-764-4445
 www.greenelandbradford.com



EARTH EXCAVATION	=	13 CU. YD.
FILL	=	290 CU. YD.
CHANNEL EXCAVATION FROM STRUCTURE EXCAVATION	=	35 CU. YD.
FURNISHED EXCAVATION	=	240 CU. YD.
TOTAL	=	74 CU. YD.
(ASSUMES 25% SHRINKAGE)		

FILE NAME = J:\06167\DRAWINGS\06167-sht-plnprf-phases1.dgn	USER NAME = frankv	DESIGNED -	REVISED -	VILLAGE OF CHATHAM GORDON DRIVE IMPROVEMENTS	PLAN AND PROFILE - 5' x 3' BOX CULVERT	F.A.U. RTE. = 8153	SECTION = 09-00028-01-DR	COUNTY = SANGAMON	TOTAL SHEETS = 32	SHEET NO. = 8			
G&B PROJECT: 06167	PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -			SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 93516				
PLOT DRIVER = Vb1_T05700_P5_LOCAL_ID01.pltOfg	PLOT DATE = 11/19/2009	DATE -	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-50820091			

TREE REMOVAL (UNITS DIAMETER)	
LOCATION	UNITS
40+85, 29' LT	= 12
42+05, 23' LT	= 24
42+07, 20' LT	= 10
42+08, 20' LT	= 10

STA. 40+75 LT TO STA. 41+12.5 LT
 REMOVE AND RE-ERECT STEEL PLATE
 BEAM GUARD RAIL, TYPE A = 37.5 FOOT
 (RE-ERECT FROM STA. 50+10 TO
 STA. 50+47.5, 22.5' RT)


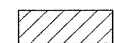

STA. 41+12.5 LT TO STA. 42+75 LT
 GUARDRAIL REMOVAL = 162.5 FOOT

STA. 41+75 RT TO STA. 42+75 RT
 GUARDRAIL REMOVAL = 100.0 FOOT

STA. 42+75, 31.7' RT
 MANHOLES TO BE RECONSTRUCTED
 = 1 EACH
 RIM (EXIST.) = 569.06
 RIM (PROP.) = 573.00

REMOVE
 EXISTING RIPRAP
 = 470 SQ YD
 (12" DEPTH ASSUMED)

LEGEND

-  EXISTING RIPRAP
-  EXISTING RIPRAP REMOVAL
-  TREE REMOVAL, UNIT

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	RT. OF WAY		
	CHECKED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	(S.M. NO. 1)		
	STRUCTURE		
	NOTATIONS		
	CHP		
	NO.		



FILE NAME = J:\06167\DRAWINGS\06167-sht-Rm-Eros-phase1A.dgn	USER NAME = frankv	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		DATE -	REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

**REMOVAL AND ADJUSTMENT PLAN
 S.N. 084-8011**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

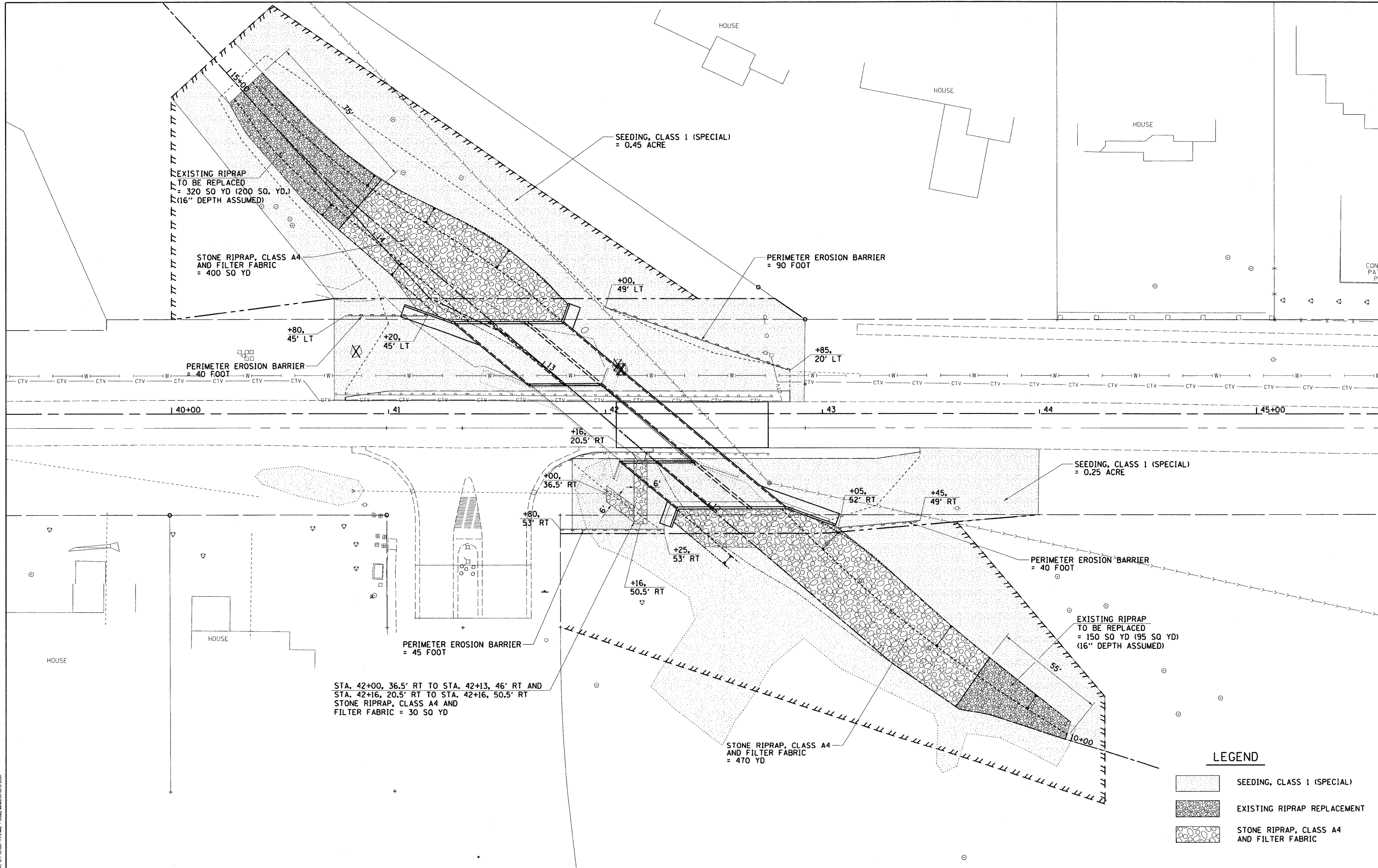
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	9
CONTRACT NO. 93516				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-5082(009)				

PLOT DRIVER = Vb1.105700.PS.LOCAL.ID01.plt

PLAN	DATE
SURVEYED	BY
ALTIMETER CHECKED	
RTY. OF WAY CHECKED	
NOTE BOOK NO.	
ADD. FILE NAME	

PROFILE	DATE
SURVEYED	BY
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	

GREENE & BRADFORD, INC.
OF SPRINGFIELD
SURVEYING & ENGINEERING
INCORPORATED
1000 N. WASHINGTON ST., SUITE 200
SPRINGFIELD, ILLINOIS 62761
TEL: 217/223-1111 FAX: 217/223-1112
WWW.GREENE-AND-BRADFORD.COM



LEGEND

[Stippled pattern]	SEEDING, CLASS 1 (SPECIAL)
[Cross-hatched pattern]	EXISTING RIPRAP REPLACEMENT
[Circular pattern]	STONE RIPRAP, CLASS A4 AND FILTER FABRIC

STA. 42+00, 36.5' RT TO STA. 42+13, 46' RT AND
STA. 42+16, 20.5' RT TO STA. 42+16, 50.5' RT
STONE RIPRAP, CLASS A4 AND
FILTER FABRIC = 30 SQ YD

**VILLAGE OF CHATHAM
GORDON DRIVE IMPROVEMENTS**

EROSION CONTROL - S.N. 084-8011

FILE NAME =	J:\06167\DRAWINGS\06167-shr-Rem-Eros-phase1A.dgn
USER NAME =	Franky
DESIGNED -	REVISD -
CHECKED -	REVISD -
DRAWN -	REVISD -
DATE -	REVISD -
PLOT SCALE =	20.0000' / 1" =
PLOT DATE =	11/19/2009

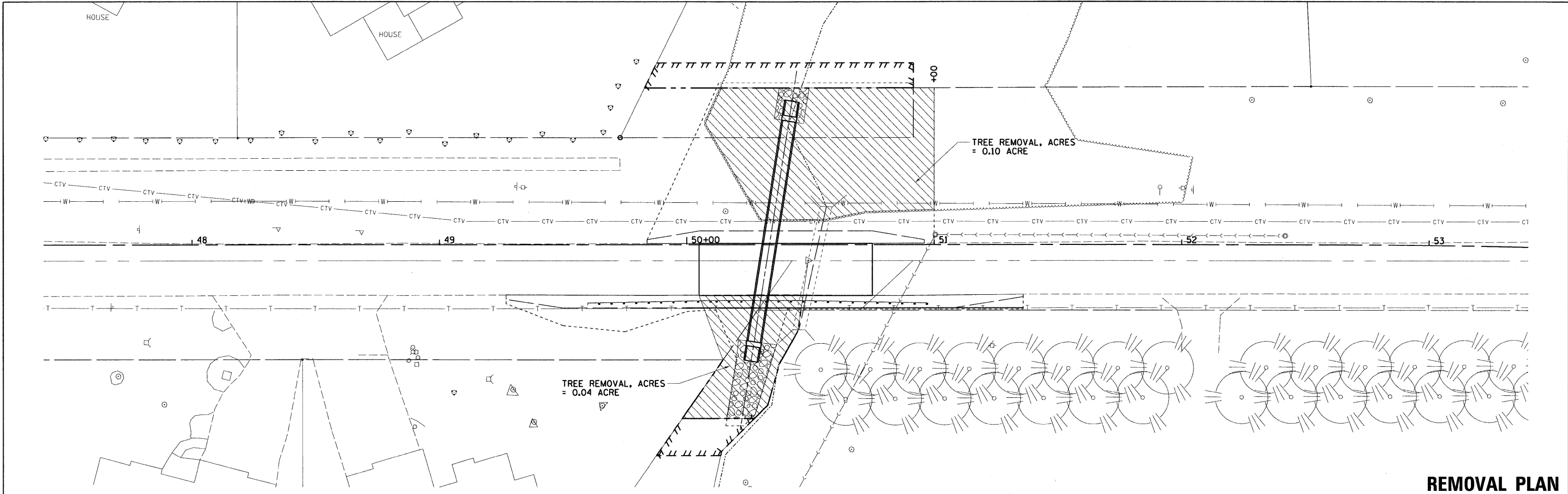
G&B PROJECT: 06167
PLOT DRIVER = V81.TDS700.PS.LOCAL.ID01.plt to Fg

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

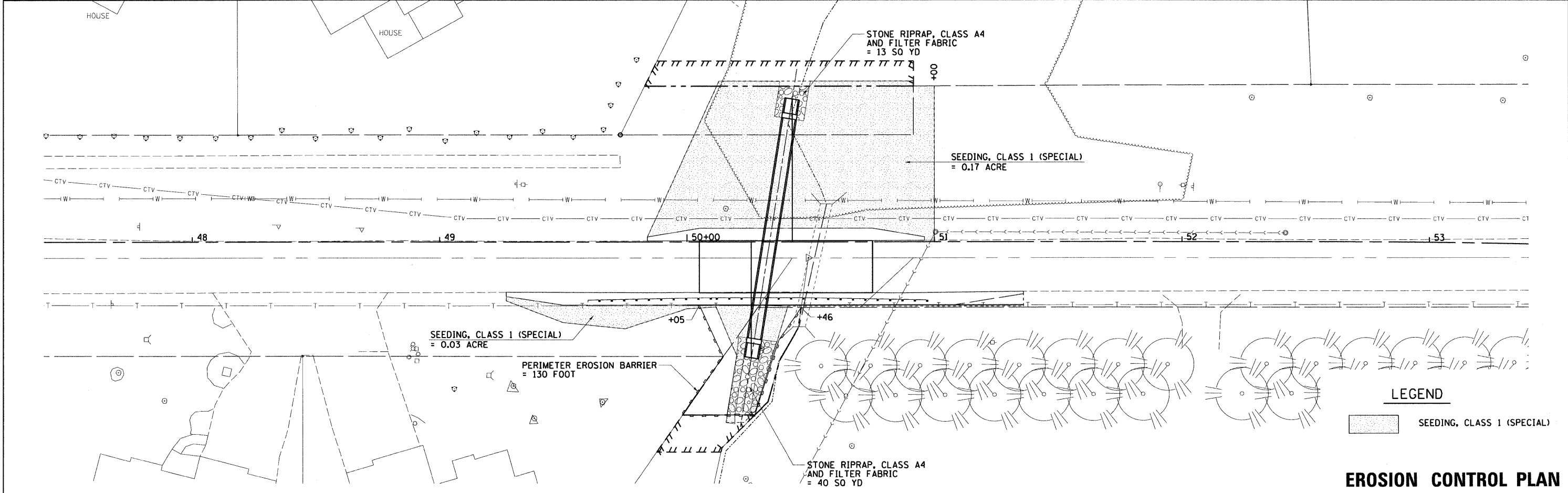
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8153	09-00028-01-DR	SANGAMON	32	10
CONTRACT NO. 93516				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	ARA-5082(009)		

PLAN	SURVEYED	BY	DATE
	NOTE BOOK		
	ALIGNED		
	CHECKED		
	BY		
	NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		



REMOVAL PLAN

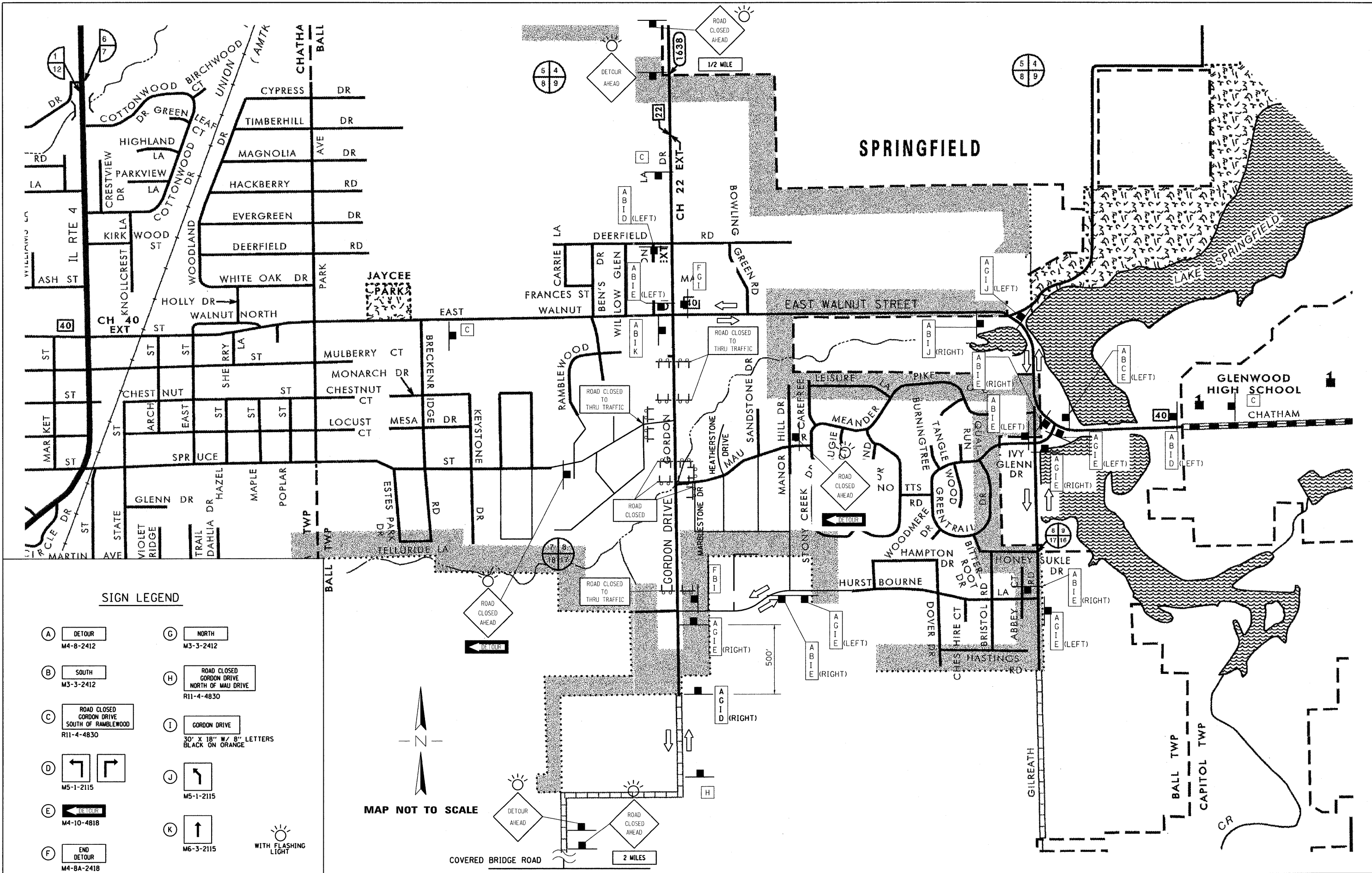


LEGEND

	SEEDING, CLASS 1 (SPECIAL)
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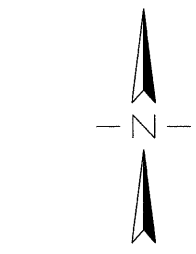
EROSION CONTROL PLAN

FILE NAME = J:\06167\DRAWINGS\06167-sht-Rem-Eros-phase1B.dgn	USER NAME = frankv	DESIGNED -	REVISED -	VILLAGE OF CHATHAM GORDON DRIVE IMPROVEMENTS	REMOVAL AND EROSION CONTROL PLAN 5' x 3' BOX CULVERT			F.A.U. RTE. 8153	SECTION 09-00028-01-DR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 11
G&B PROJECT: 06167	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 33516			
PLOT DATE = 11/19/2009	DATE -	DRAWN -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT ARA-5082(009)							
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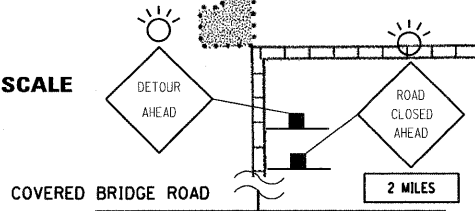


SIGN LEGEND

- (A) DETOUR
M4-8-2412
- (B) SOUTH
M3-3-2412
- (C) ROAD CLOSED
GORDON DRIVE
SOUTH OF RAMBLEWOOD
R11-4-4830
- (D) M5-1-2115
- (E) M4-10-4818
- (F) END
DETOUR
M4-8A-2418
- (G) NORTH
M3-3-2412
- (H) ROAD CLOSED
GORDON DRIVE
NORTH OF MAU DRIVE
R11-4-4830
- (I) GORDON DRIVE
30" X 18" W/ 8" LETTERS
BLACK ON ORANGE
- (J) M5-1-2115
- (K) M6-3-2115



MAP NOT TO SCALE



GREENE & BRADFORD, INC.
 OF BRIDGEVILLE, PA.
 1000 W. STATE ST.
 BRIDGEVILLE, PA. 15005
 TEL: 724-838-1111 FAX: 724-838-1112
 WWW.GRENEANDBRADFORD.COM

FILE NAME = J:\06167\DRAWINGS\06167-shd-detour.dgn
 USER NAME = Frankv
 PLOT SCALE = 50.0000' / 1" IN.
 PLOT DATE = 11/19/2009

DESIGNED - WCB
 DRAWN - MDS
 CHECKED - WCB
 DATE - 10/05/09

REVISED -
 REVISED -
 REVISED -
 REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

DETOUR PLAN

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	12
				CONTRACT NO. 93516
ILLINOIS FED. AID PROJECT ARA-5082(009)				

Benchmark: Chisled "□" in S.E. corner of the east headwall box culvert.
East side of Gordon Drive & ±70' north of Mau Drive. Elev. 571.51.

Existing Structure: Twin 10'x7' reinforced concrete box culvert 54' in length.
Extend to 134'-0" and add a 10'x7' cast-in-place box culvert with cast-in-place reinforced concrete headwalls and wingwalls. Road to be closed during construction.

No Salvage.

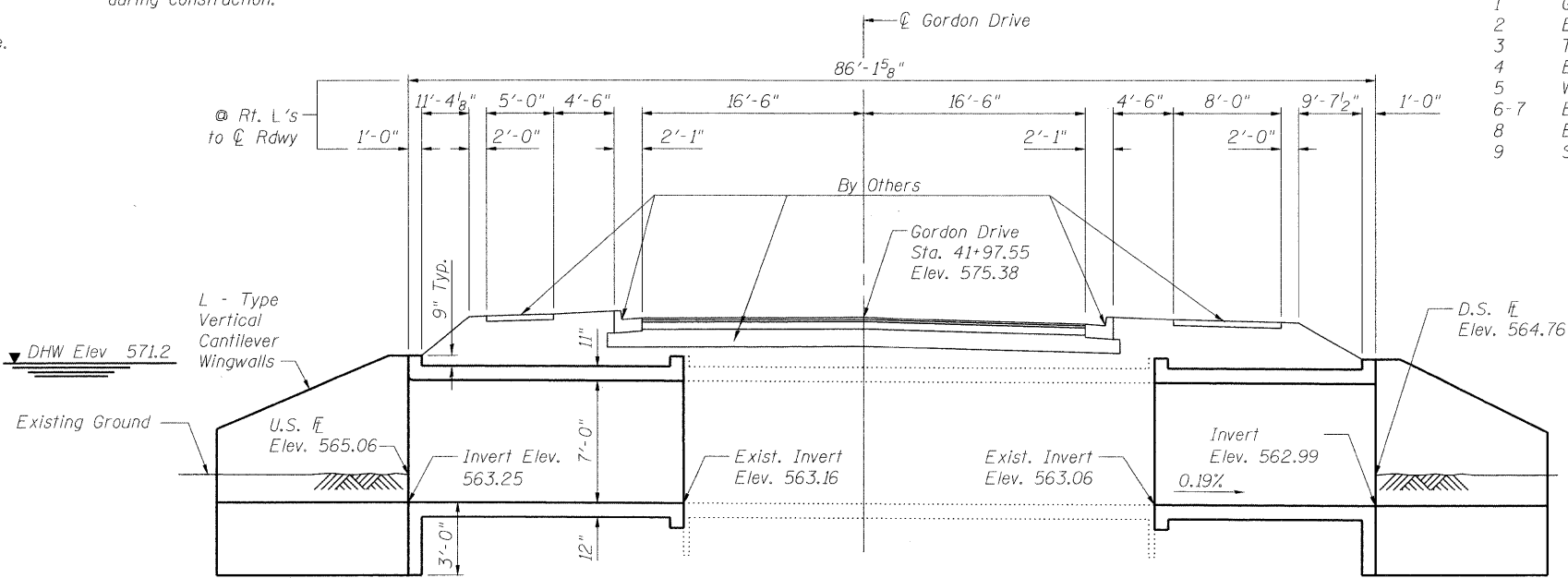
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Existing Removal Plan
- 3 Top Slab Details
- 4 Bottom Slab Details
- 5 Wingwall Details
- 6-7 Box Culvert Section Details
- 8 Box Culvert Details
- 9 Soil Borings

WATERWAY INFORMATION

		Q C.F.S.		Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
Flood	Freq. Yr.	Exist.	Prop.	Exist.	Prop.	Exist.	Exist.	Prop.	Exist.	Prop.
Design	Box Culvert	649	649	92.7	139.6	570.0	0.5	0.0	570.5	570.0
	Over-the-Road	0	0	0.0	0.0					
	Total	649	649	92.7	139.6					
Base	Box Culvert	1073	1073	104.0	156.0	571.2	1.9	0.6	573.1	571.8
	Over-the-Road	0	0	0.0	0.0					
	Total	1073	1073	104.0	156.0					
Over-topping	Box Culvert	1266	1266	104.0	156.0	571.6	2.9	1.1	574.5	572.7
	Over-the-Road	0	0	0.0	0.0					
	Total	1266	1266	104.0	156.0					
Maximum	Box Culvert	1409.6	1443	104.0	156.0	571.9	3.8	1.7	575.7	573.6
	Over-the-Road	33.4	0	17.0	0.0					
	Total	1443	1443	121.0	156.0					
Maximum	Box Culvert	1460.2	1738	104.0	156.0	572.5	4.1	2.8	576.6	575.3
	Over-the-Road	277.8	0	116.2	0.0					
	Total	1738	1738	220.2	156.0					



LONGITUDINAL SECTION

PROPOSED PROFILE GRADE

(Along Center Roadway)
(Future Roadway Construction, By Others)

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- All construction joints shall be bonded.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	27.5
Reinforcement Bars, Epoxy Coated	Pound	58,970
Name Plates	Each	1
Expansion Bolts, 3/4"	Each	104
Concrete Box Culverts	Cu Yd	353.0

DESIGN SPECIFICATIONS

2002 AASHTO

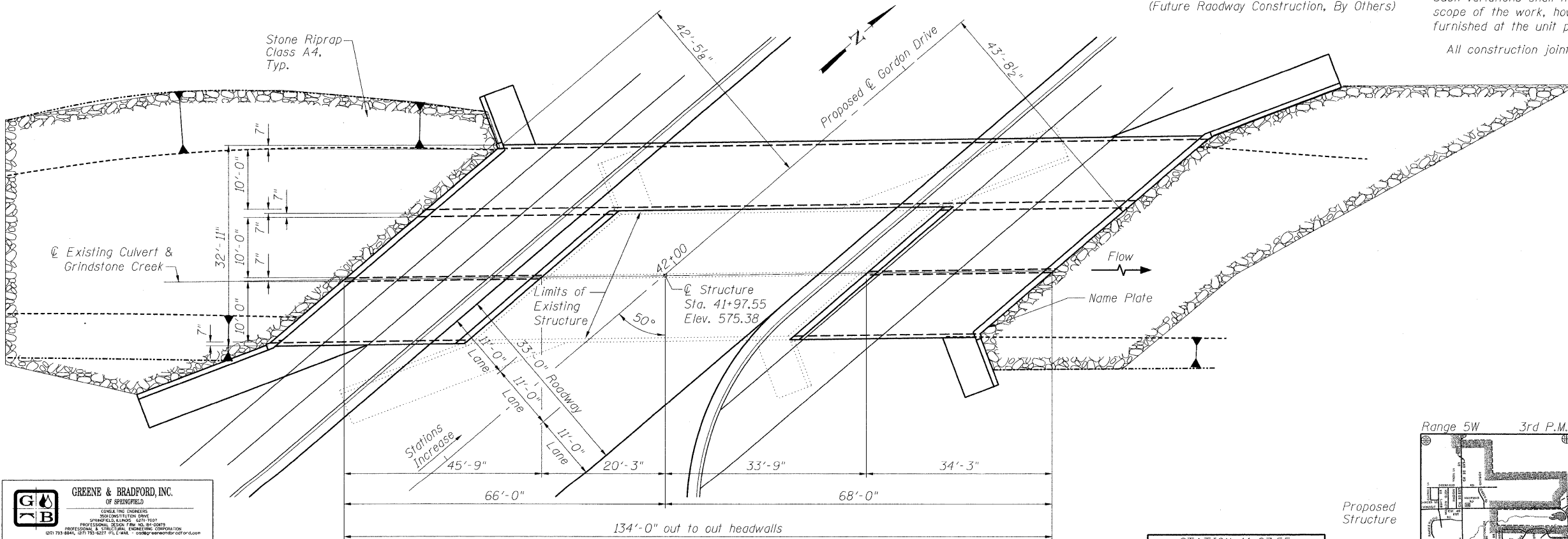
DESIGN STRESSES

FIELD UNITS

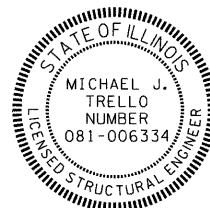
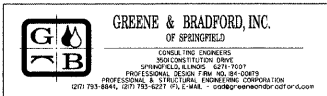
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HS 20-44

Allow 50#/sq. ft. for future wearing surface.



PLAN



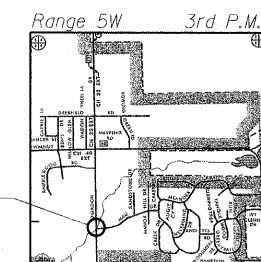
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current A.A.S.H.T.O. L.R.F.D. Bridge Design Specifications.

Michael J. Trello
Signed
11/25/09
Dated

Expires: 11/30/10

STATION 41+97.55
REBUILT 20... BY
VILLAGE OF CHATHAM
F.A.U. RTE. 8153
SEC. 09-00028-01-DR
LOADING HS20
STRUCTURE NO. 084-8011

NAME PLATE
See Std. 515001

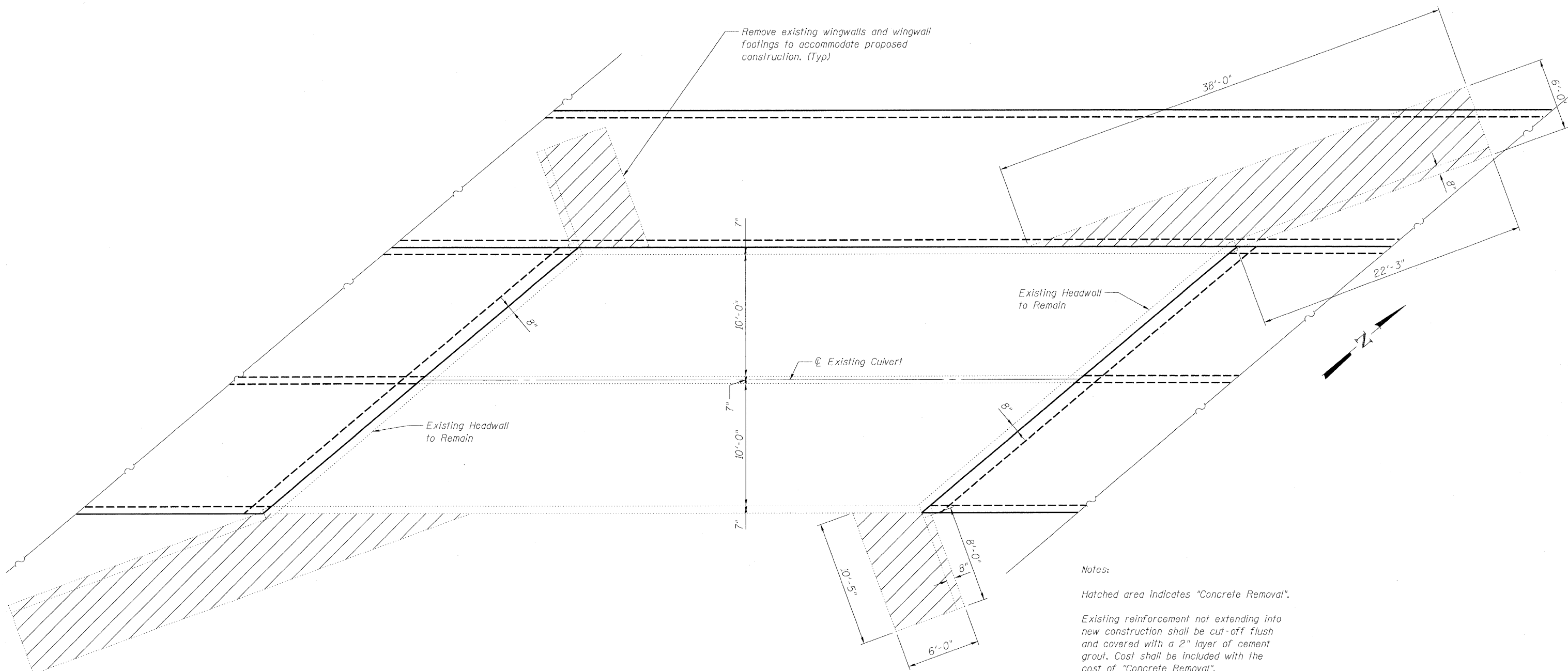


LOCATION SKETCH

GENERAL PLAN & ELEVATION
GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011

SHEET NO.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	8153	09-00028-01-DR	SANGAMON	32	13
CONTRACT NO. 93516					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-5082(009)					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



EXISTING REMOVAL PLAN

EXISTING REMOVAL PLAN
GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011

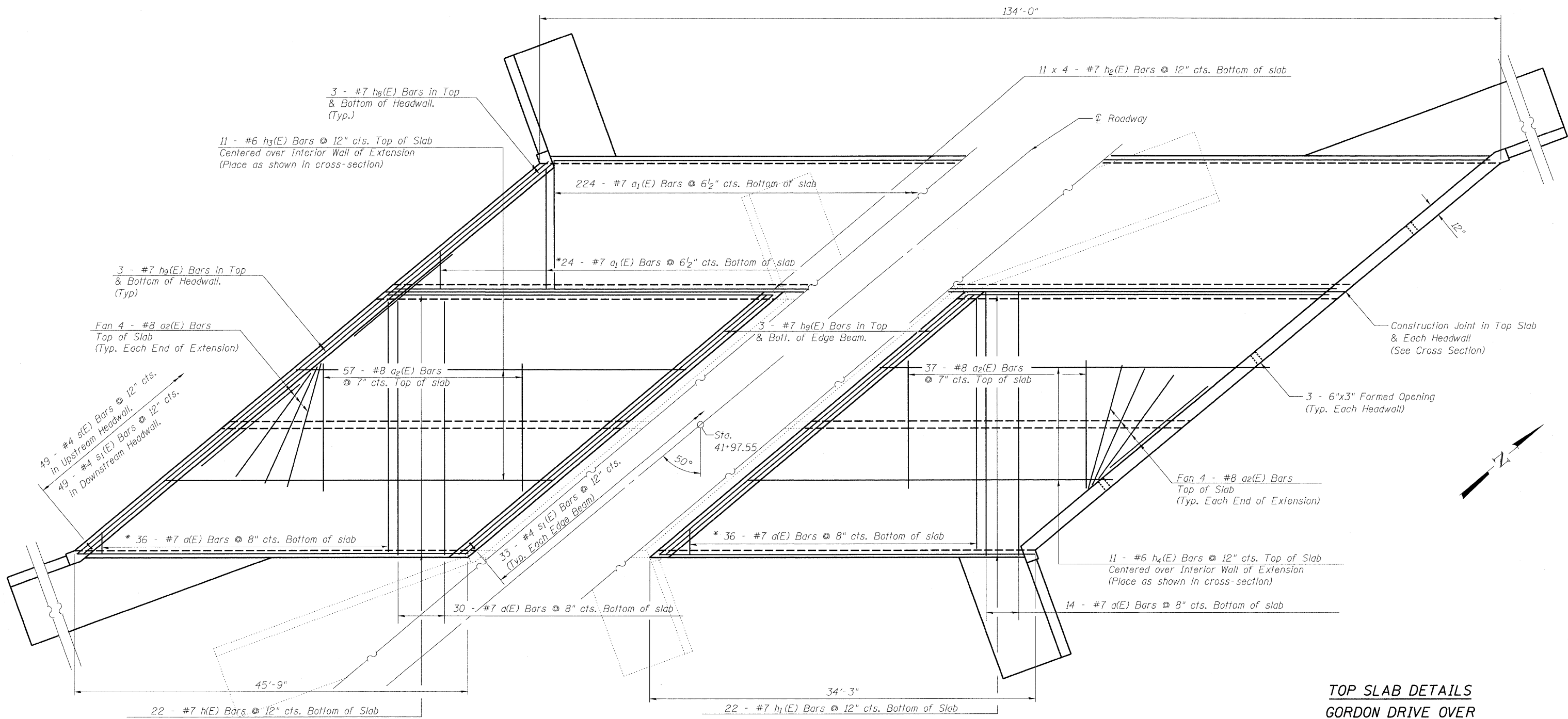
GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
PROFESSIONAL ENGINEERS
PROFESSIONAL SURVEYORS
PROFESSIONAL & STRUCTURAL ENGINEERING CORPORATION
4271 93RD HWY 156, SPRINGFIELD, IL 62781
TEL: 217-223-1111 FAX: 217-223-1112

DESIGNED	NIEWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO

G&B PROJECT: - PLOT DRIVER = V81.TDS700.PS.LOCAL.IDOT.pltcf
FILE NAME = J:\06167\DRAWINGS\Cordon Culvert\06167-Reinforcement Details.dgn
PLOT DATE = 11/19/2009 PLOT SCALE = 3/11 7/8 "1" = 1" USER NAME = frankv

SHEET NO. 2 9 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8153	09-00028-01-DR	SANGAMON	32	14
			CONTRACT NO. 93516		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	ARA-5082(009)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MIN. BAR LAP
#7 bars = 3'-5"

* Cut a(E), and a1(E) bars to fit skew. Use balance of bar in opposite end.

Notes:
For bar bend details, drain details and Bill of Material, see sheet 8 of 9.
For wingwall details see sheet 5 of 9.

PLAN TOP SLAB

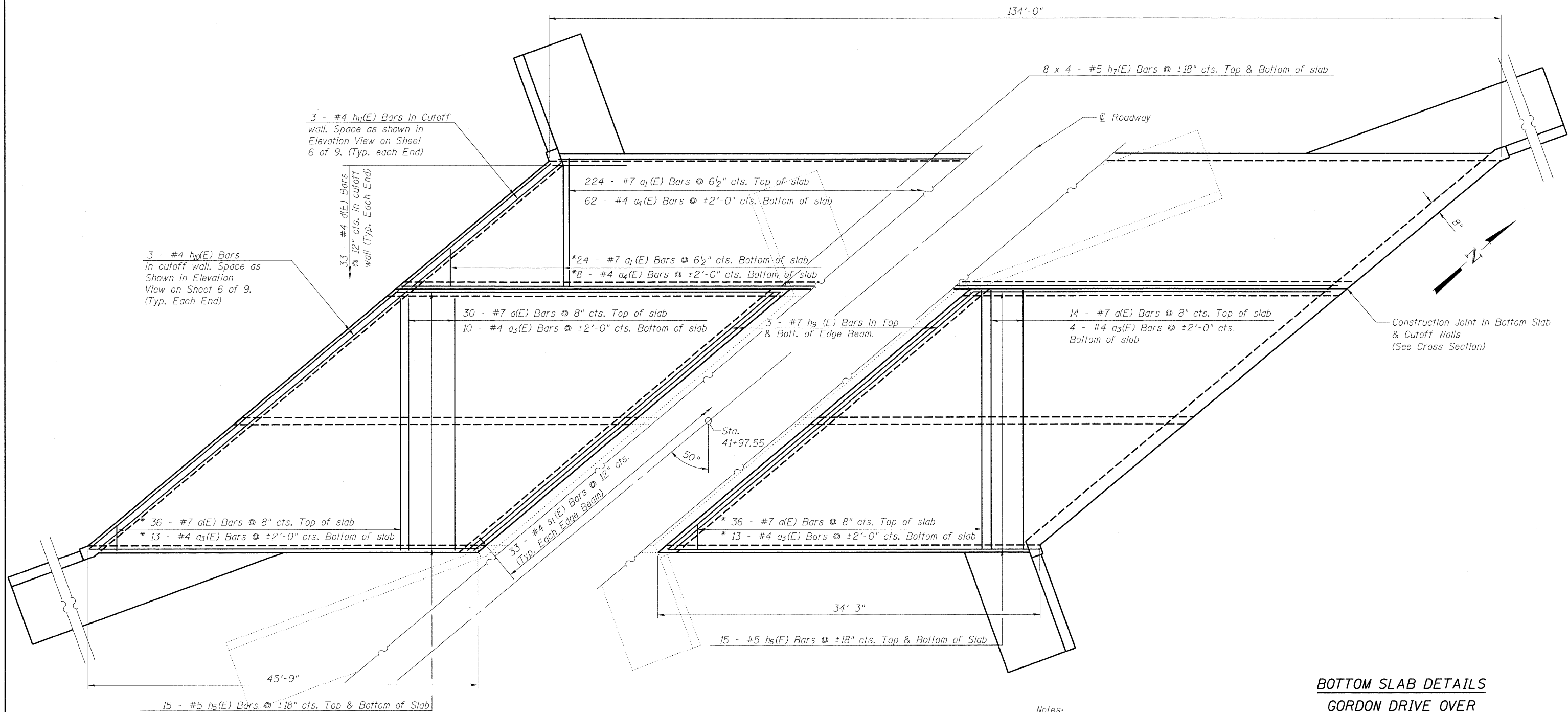
TOP SLAB DETAILS
GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
500 CONVENT ROAD
SPRINGFIELD, ILLINOIS 62701
PHONE: (217) 223-1111 FAX: (217) 223-1112
PROFESSIONAL & STRUCTURAL ENGINEERING CORPORATION
0271781-8894, 0271781-5221 (F), E-MAIL: info@greenebradford.com

DESIGNED	NIEWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO

SHEET NO. 3	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8153	09-00028-01-DR	SANGAMON	32	15
9 SHEETS		CONTRACT NO. 93516			
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	ARA-5082(009)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



3 - #4 h₁₁(E) Bars in Cutoff wall. Space as shown in Elevation View on Sheet 6 of 9. (Typ. each End)

3 - #4 h₁₀(E) Bars in cutoff wall. Space as Shown in Elevation View on Sheet 6 of 9. (Typ. Each End)

33 - #4 a₁(E) Bars @ 12" cts. in cutoff wall (Typ. Each End)

224 - #7 a₁(E) Bars @ 6 1/2" cts. Top of slab
62 - #4 a₄(E) Bars @ ±2'-0" cts. Bottom of slab

*24 - #7 a₁(E) Bars @ 6 1/2" cts. Bottom of slab
*8 - #4 a₄(E) Bars @ ±2'-0" cts. Bottom of slab

30 - #7 a(E) Bars @ 8" cts. Top of slab
10 - #4 a₃(E) Bars @ ±2'-0" cts. Bottom of slab

3 - #7 h₉(E) Bars in Top & Bott. of Edge Beam.

14 - #7 a(E) Bars @ 8" cts. Top of slab
4 - #4 a₃(E) Bars @ ±2'-0" cts. Bottom of slab

Construction Joint in Bottom Slab & Cutoff Walls (See Cross Section)

Sta. 41+97.55

33 - #4 s₁(E) Bars @ 12" cts. (Typ. Each Edge Beam)

*36 - #7 a(E) Bars @ 8" cts. Top of slab
*13 - #4 a₃(E) Bars @ ±2'-0" cts. Bottom of slab

15 - #5 h₆(E) Bars @ ±18" cts. Top & Bottom of Slab

15 - #5 h₆(E) Bars @ ±18" cts. Top & Bottom of Slab

* Cut a(E), a₁(E), a₃(E), & a₄(E) bars to fit skew. Use Balance of bar in opposite end.

MIN. BAR LAP
#5 bars = 2'-2"

Notes:
For bar bend details and Bill of Material, see sheet 8 of 9.
For wingwall details see sheet 5 of 9.

BOTTOM SLAB DETAILS
GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011



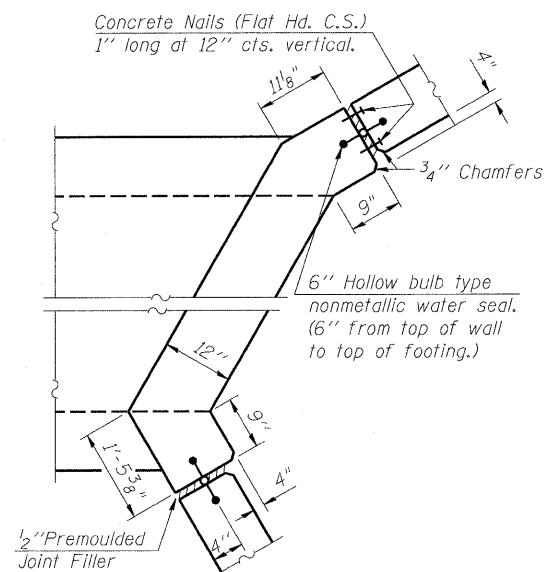
DESIGNED NIEWINSKI
CHECKED TRELLO
DRAWN VERENSKI
CHECKED TRELLO

G&B PROJECT: - PLOT DRIVER = V81.T05702.PS.LOCAL.IDOT.pltcf
FILE NAME = J:\06167\DRAWINGS\Gordon Culver\06167-Reinforcement Details.dgn
PLOT DATE = 11/19/2009 PLOT SCALE = 3/11 7/8" = 1" USER NAME = Frankv

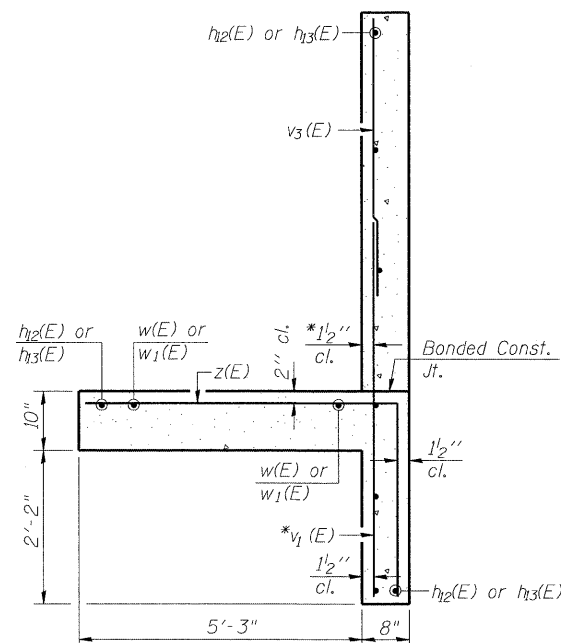
PLAN BOTTOM SLAB

SHEET NO. 4	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8153	09-00028-01-DR	SANGAMON	32	16
9 SHEETS	CONTRACT NO. 93516				
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	ARA-5082(009)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

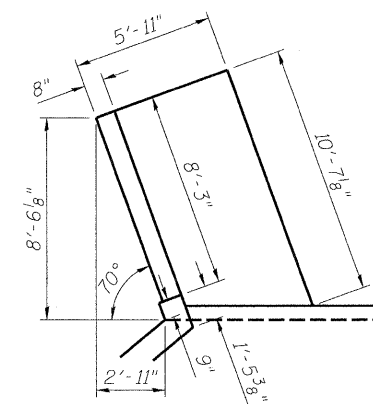
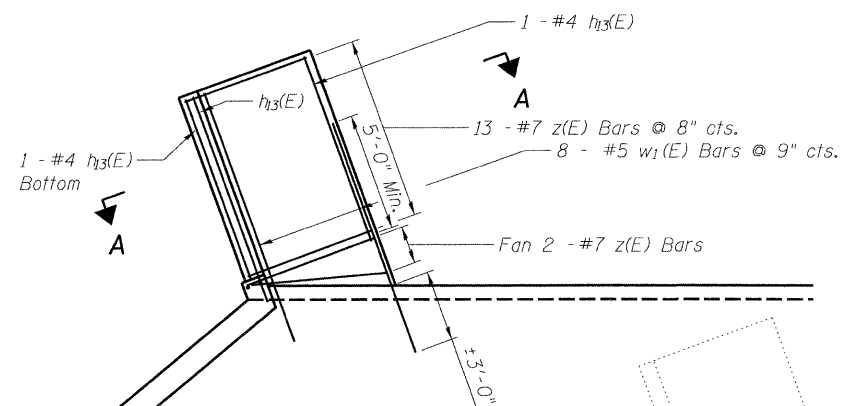


CORNER DETAIL

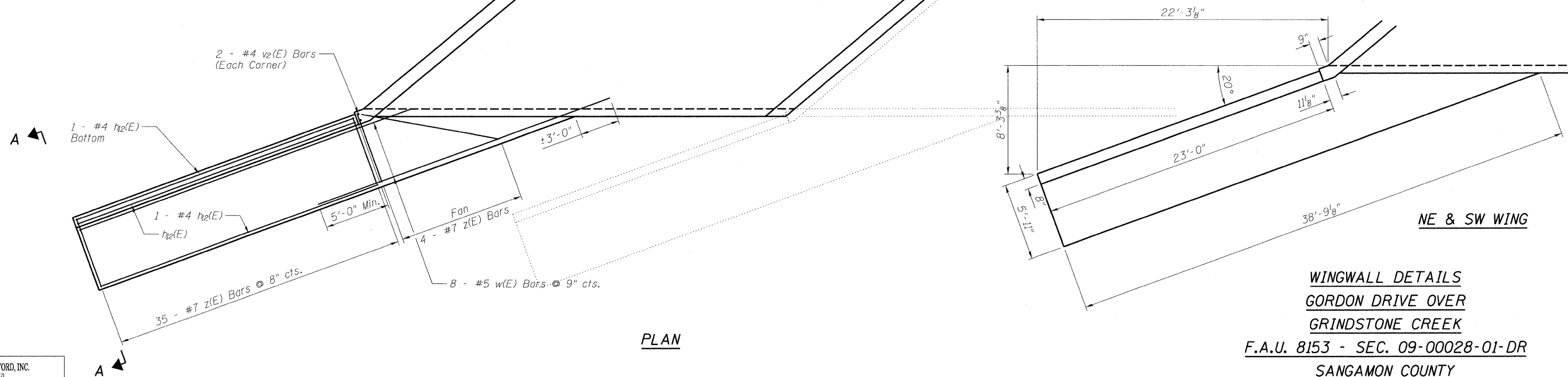


SECTION A-A

* v₁(E) bars shall not be placed more than 1 1/2" cl. from back face of wingwalls.



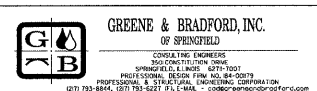
NW & SE WING



PLAN

NE & SW WING

WINGWALL DETAILS
GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011

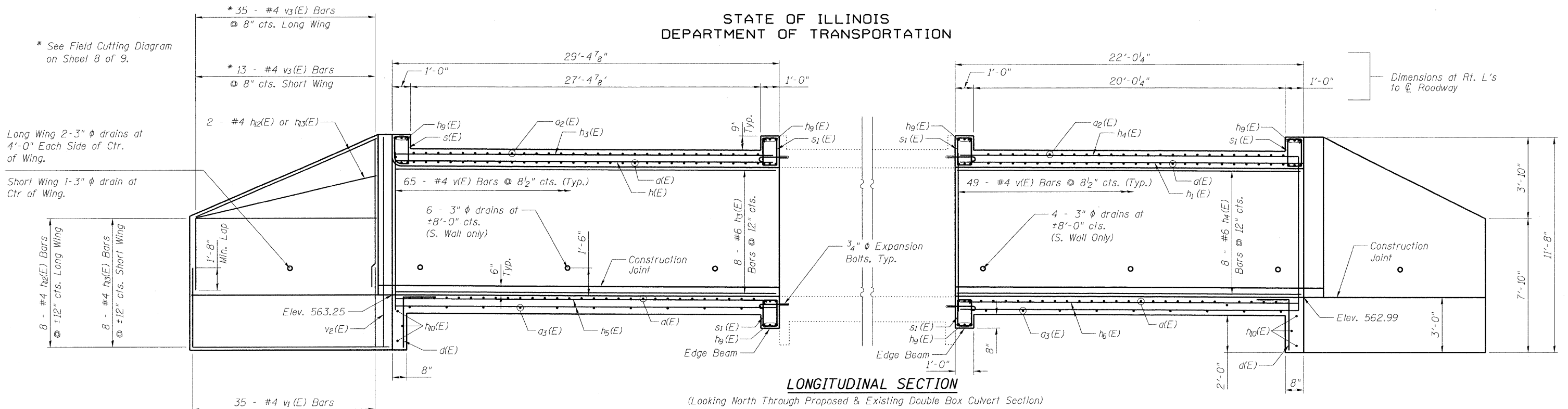


DESIGNED **NIWINSKI**
CHECKED **TRELLO**
DRAWN **VERENSKI**
CHECKED **TRELLO**

G&B PROJECT: - PLOT DRIVER = V81.TDS700.PS.LOCAL.IDOT.pltcf9
FILE NAME = J:\06167\DRAWINGS\Gordon Culvert\06167-Reinforcement Details.dgn
PLOT DATE = 11/19/2009 PLOT SCALE = 3/11 7/8" = 1" USER NAME = Franklv

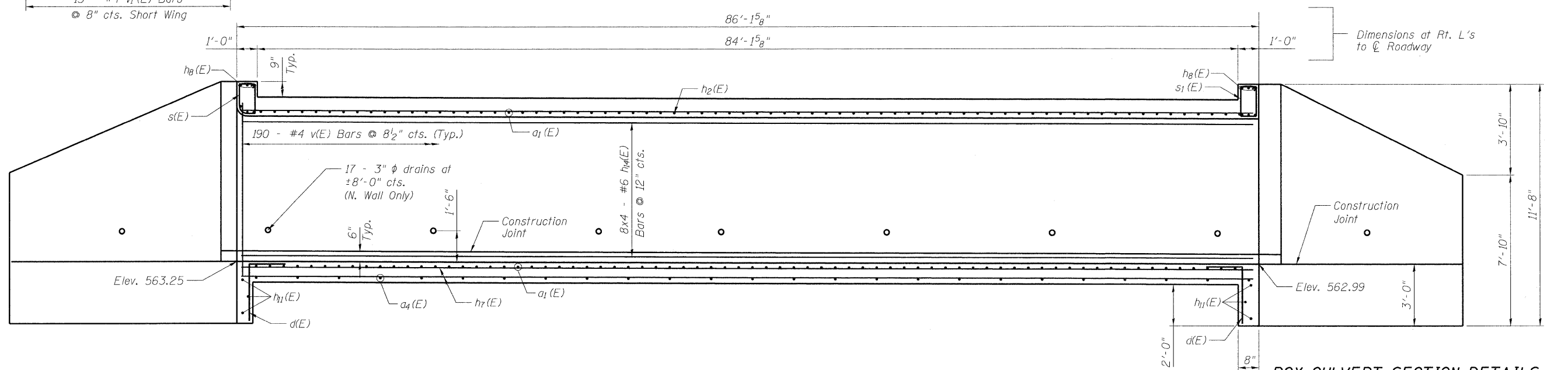
SHEET NO. 5	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	8153	09-00028-01-DR	SANGAMON	32	17
			CONTRACT NO. 93516		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	ARA-5082(009)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LONGITUDINAL SECTION

(Looking North Through Proposed & Existing Double Box Culvert Section)



LONGITUDINAL SECTION

(Looking North Through Proposed Single Box Culvert Section)

BOX CULVERT SECTION DETAILS

**GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011**

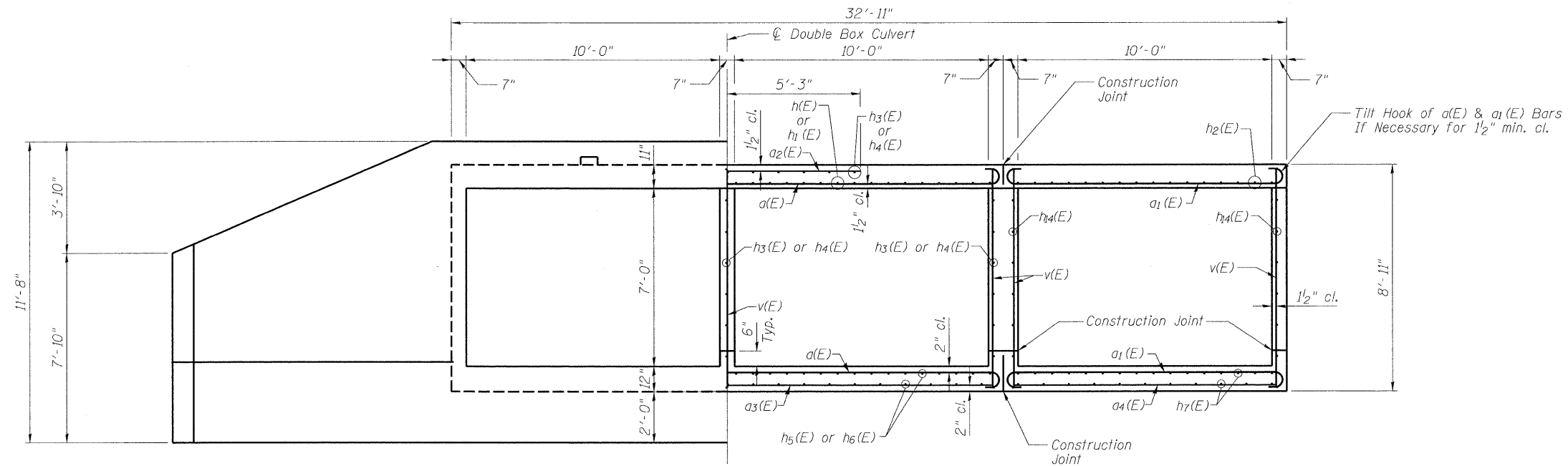
MIN. BAR LAP
#6 bars = 2'-7"
#4 bars = 1'-8"

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
CORPORATION
1071 184th St. Springfield, IL 62767
TEL: 217-223-1111 FAX: 217-223-1112

DESIGNED	NIWINSKI
CHECKED	TRELLO
DRAWN	VERENSKI
CHECKED	TRELLO

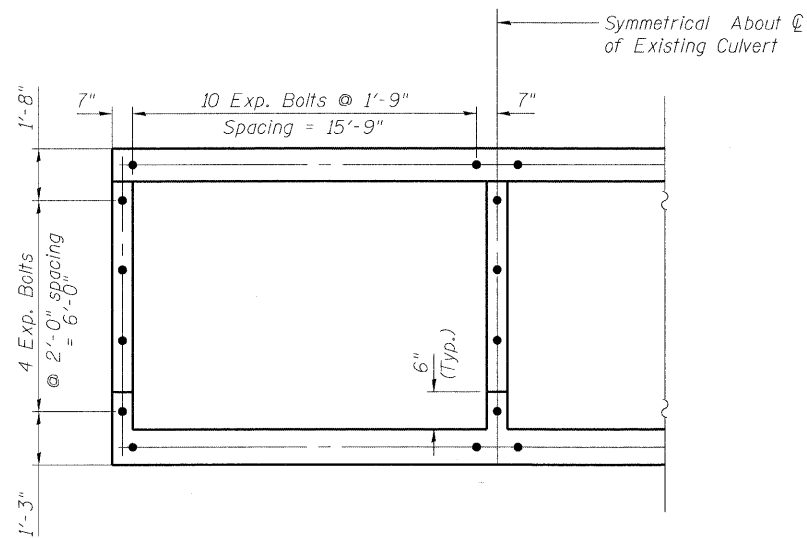
SHEET NO. 6	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8153	09-00028-01-DR	SANGAMON	32	18
9 SHEETS	CONTRACT NO. 93516				
	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT	ARA-5082(009)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

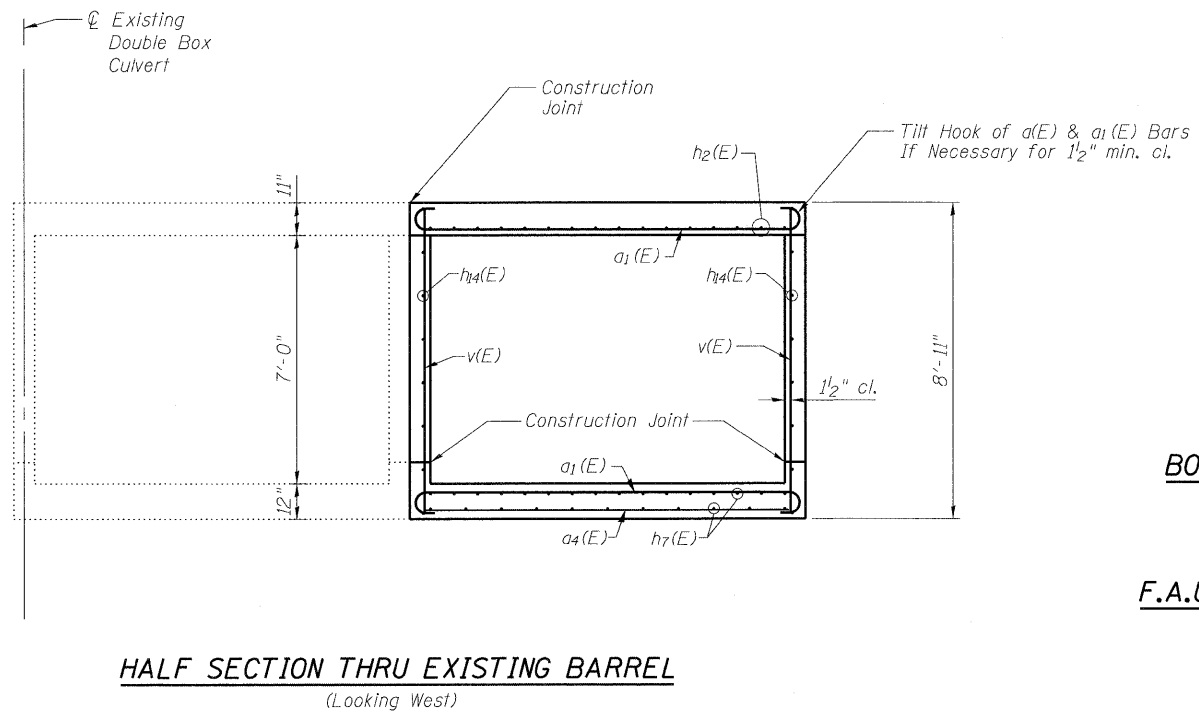


HALF END ELEVATION
(Looking West)

HALF SECTION THRU BARREL EXTENSIONS
(Looking West)



EXPANSION BOLT PLACEMENT DETAIL
(104 Required)



HALF SECTION THRU EXISTING BARREL
(Looking West)

BOX CULVERT SECTION DETAILS
GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011



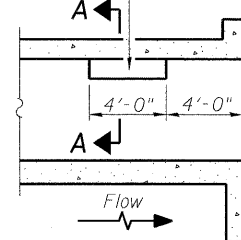
DESIGNED **NIWINSKI**
CHECKED **TRELLO**
DRAWN **VERENSKI**
CHECKED **TRELLO**

Note:
Expansion Bolts shall be 3/4" ϕ
Hooked Bolts. Hooked Bolts shall
extend a minimum of 9" into
new concrete.

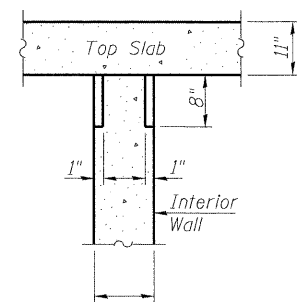
SHEET NO. 7	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	8153	09-00028-01-DR	SANGAMON	32	19
			CONTRACT NO. 93516		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	ARA-5082(009)	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).

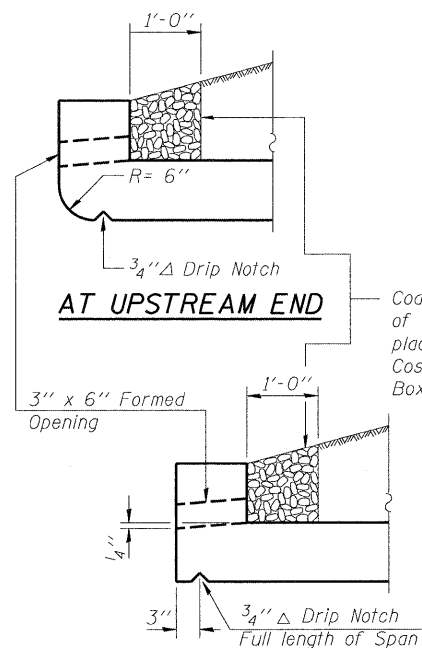


LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING
SITE DETAILS
(Downstream End Only)

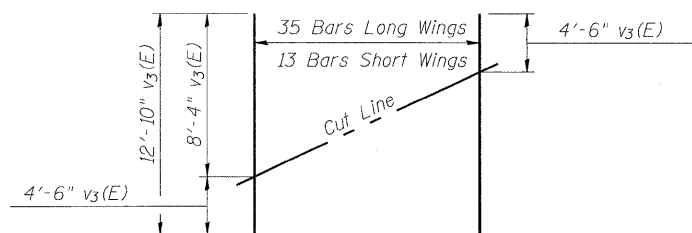


AT UPSTREAM END

AT DOWNSTREAM END

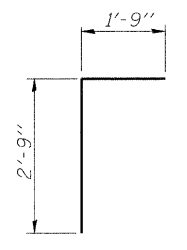
DRAIN DETAIL

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

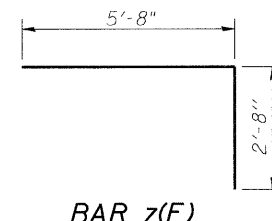


FIELD CUTTING DIAGRAM

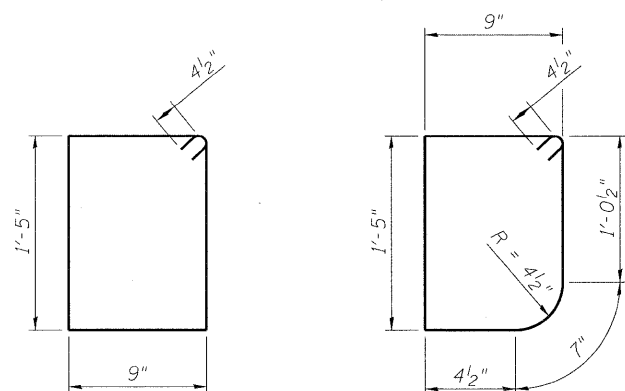
Order v3(E) full length. Cut as shown and use remainder of bars in opposite wing.



BAR d(E)

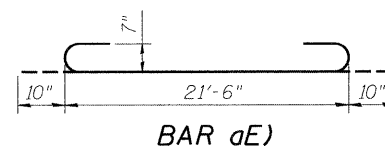


BAR z(E)

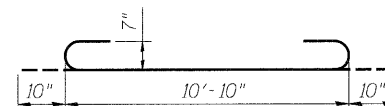


BAR s1(E)

BAR s(E)



BAR a(E)



BAR a1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	232	#7	23'-2"	U
a1(E)	496	#7	12'-6"	U
a2(E)	110	#8	10'-6"	—
a3(E)	40	#4	21'-6"	—
a4(E)	70	#4	10'-10"	—
d(E)	66	#4	4'-6"	L
h(E)	22	#7	45'-6"	—
h1(E)	22	#7	34'-0"	—
h2(E)	44	#7	36'-0"	—
h3(E)	35	#6	45'-6"	—
h4(E)	35	#6	34'-0"	—
h5(E)	30	#5	45'-6"	—
h6(E)	30	#5	34'-0"	—
h7(E)	64	#5	35'-0"	—
h8(E)	12	#7	17'-0"	—
h9(E)	36	#7	33'-6"	—
h10(E)	6	#4	33'-6"	—
h11(E)	6	#4	17'-0"	—
h12(E)	24	#4	22'-9"	—
h13(E)	24	#4	8'-0"	—
h14(E)	64	#6	35'-3"	—
s(E)	49	#4	4'-11"	0
s1(E)	181	#4	5'-1"	0
v(E)	722	#4	8'-7"	—
v1(E)	96	#4	4'-9"	—
v2(E)	8	#4	11'-5"	—
v3(E)	48	#4	12'-10"	—
w(E)	16	#5	27'-0"	—
w1(E)	16	#5	11'-3"	—
z(E)	108	#7	8'-4"	L
Concrete Box Culverts			Cu. Yd.	353.0
Reinforcement Bars, Epoxy Coated			Pound	58,970

BOX CULVERT DETAILS

GORDON DRIVE OVER
GRINDSTONE CREEK

F.A.U. 8153 - SEC. 09-00028-01-DR

SANGAMON COUNTY

STATION 41+97.55

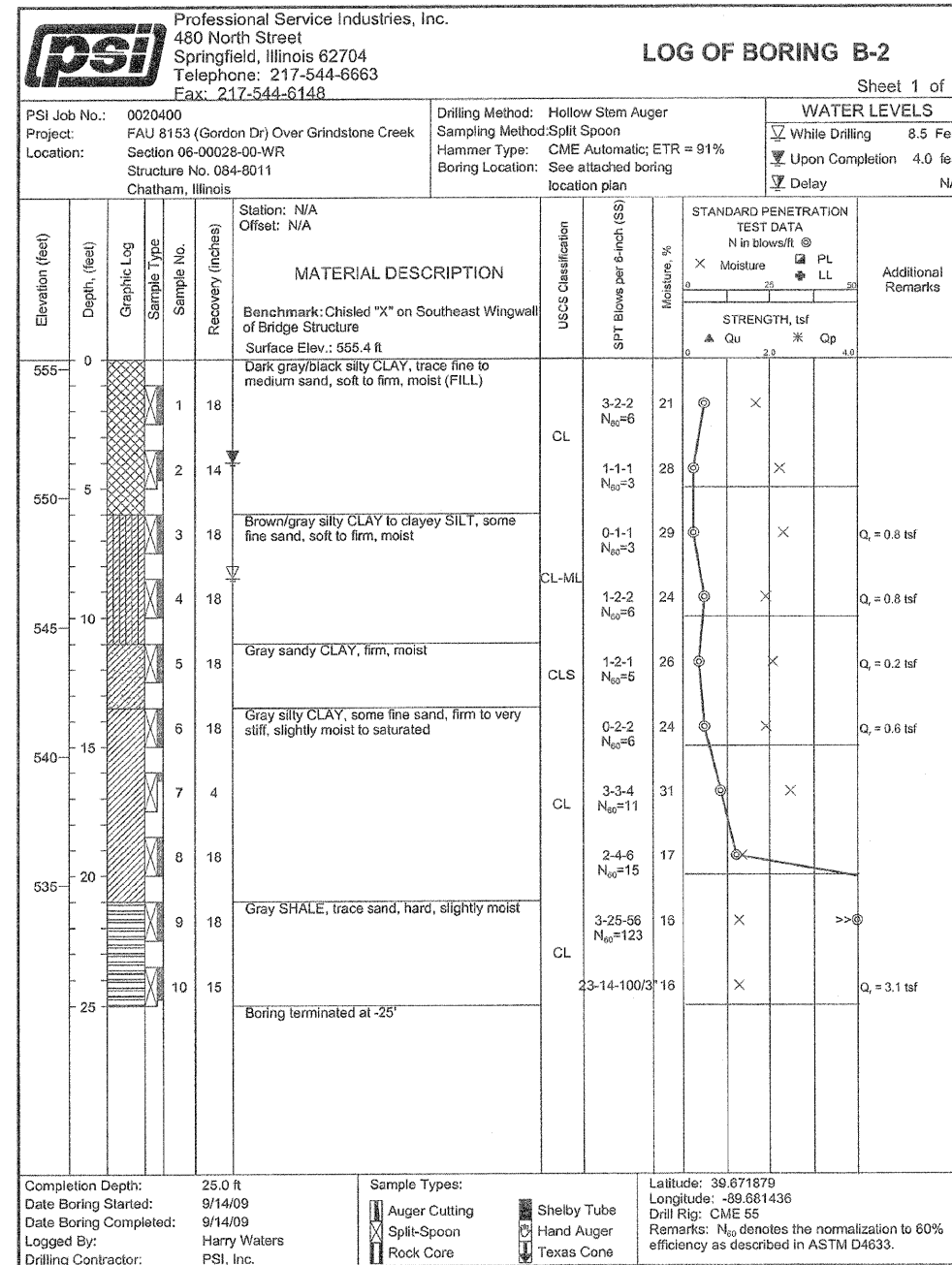
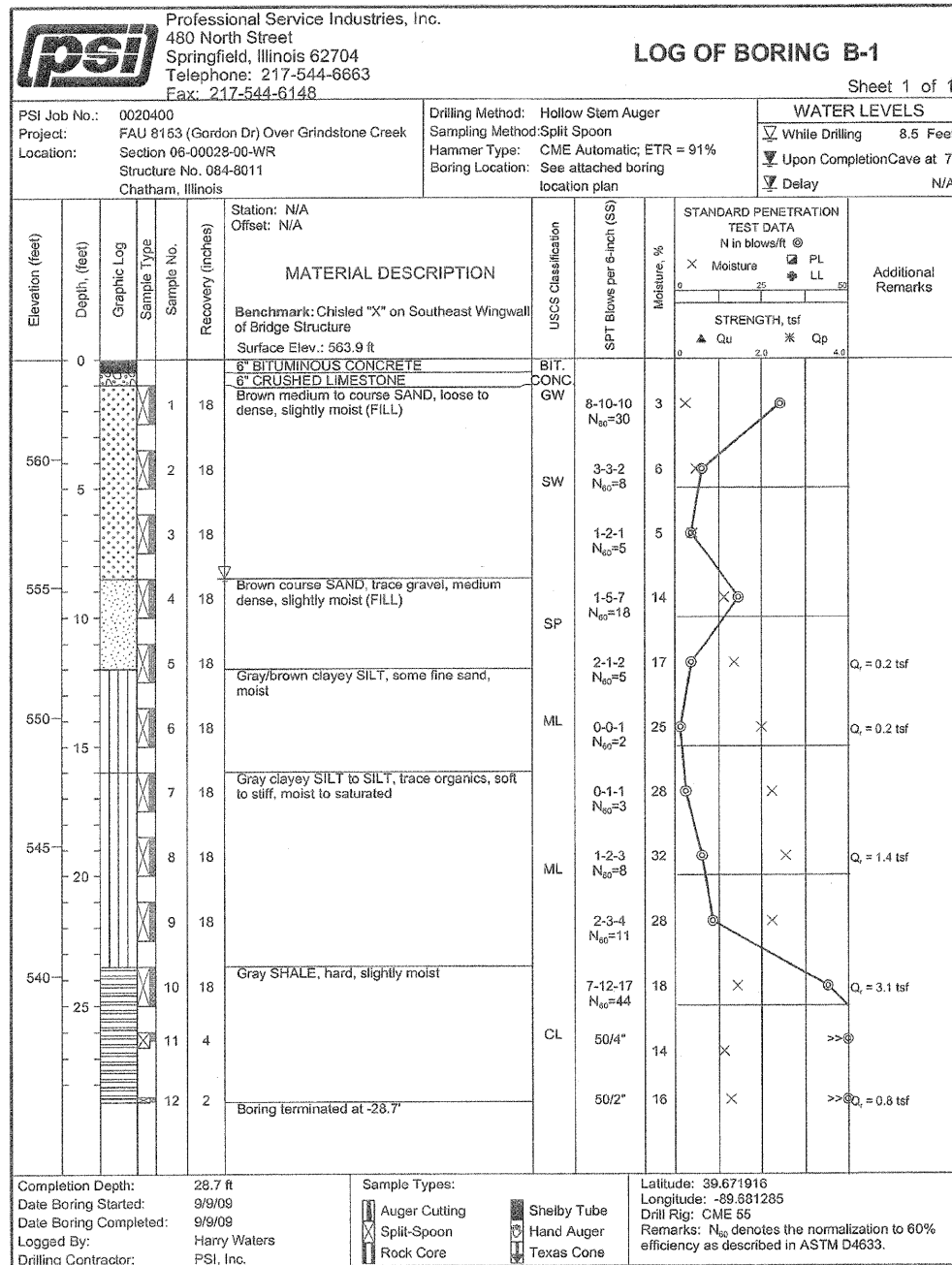
STRUCTURE NO. 084-8011

SHEET NO. 8	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	8153	09-00028-01-DR	SANGAMON	32	20
FED. ROAD DIST. NO. -			ILLINOIS	FED. AID PROJECT	ARA-5082(009)
					CONTRACT NO. 93516

GREENE & BRADFORD, INC.
OF SPRINGFIELD
CONSULTING ENGINEERS
1000 NORTH MAIN STREET
SPRINGFIELD, ILLINOIS 62761-1001
PROFESSIONAL ENGINEERING CORPORATION
ILLINOIS LICENSE NO. 021-000001
REGISTERED PROFESSIONAL ENGINEERS

DESIGNED NIEWINSKI
CHECKED TRELLO
DRAWN VERENSKI
CHECKED TRELLO

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORINGS
GORDON DRIVE OVER
GRINDSTONE CREEK
F.A.U. 8153 - SEC. 09-00028-01-DR
SANGAMON COUNTY
STATION 41+97.55
STRUCTURE NO. 084-8011



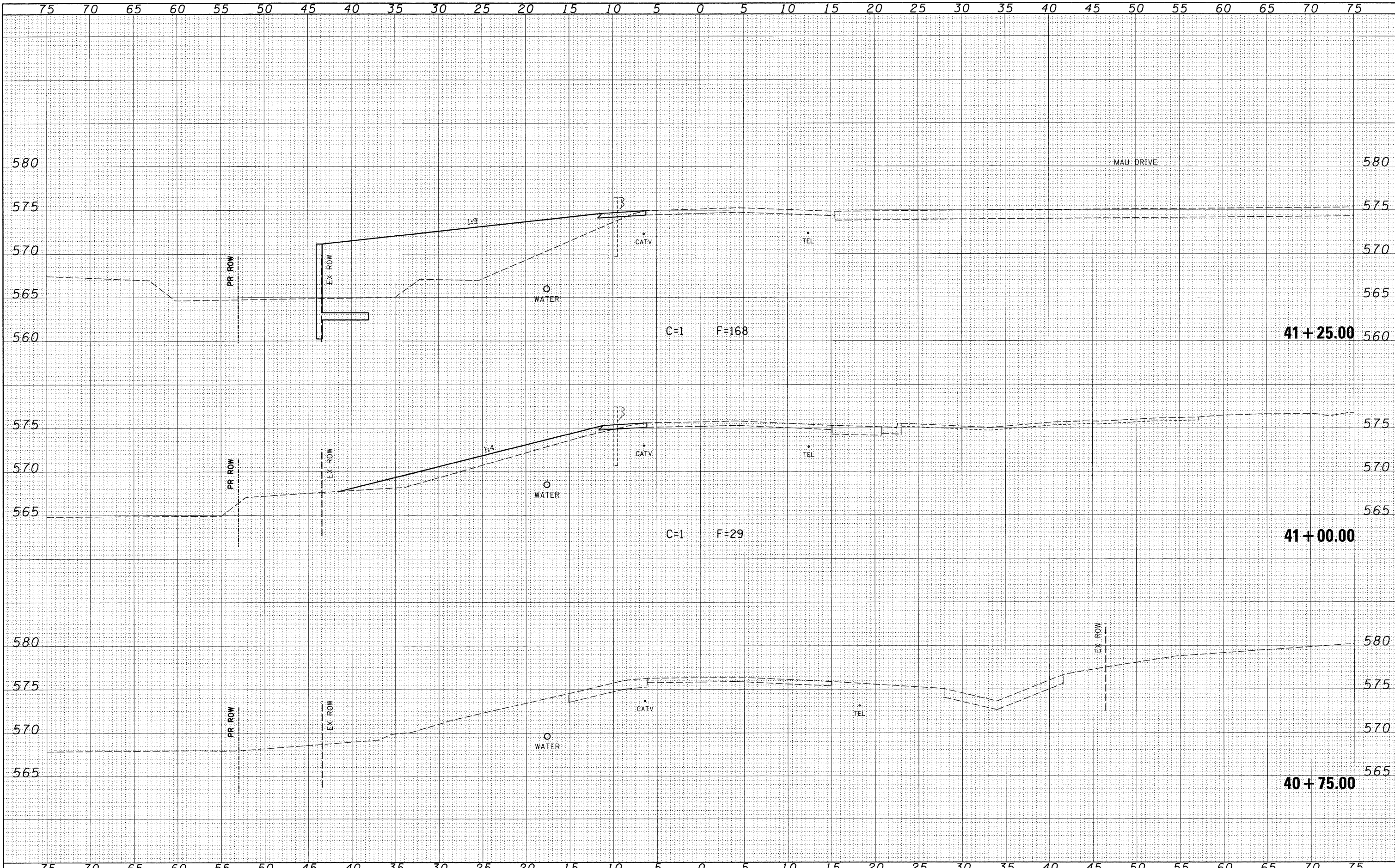
DESIGNED **NIWINSKI**
CHECKED **TRELLO**
DRAWN **VERENSKI**
CHECKED **TRELLO**

SHEET NO. 9	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8153	09-00028-01-DR	SANGAMON	32	21
9 SHEETS			CONTRACT NO. 93516		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	ARA-5082(009)	

DATE	
BY	
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

GREENE & BRADFORD, INC.
 CIVIL ENGINEERS
 1000 W. MONROE ST., SUITE 100
 CHICAGO, ILLINOIS 60606
 (773) 327-1000



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-phase1A.dgn
 USER NAME = Frankv
 PLOT SCALE = 5,00000 ' / in.
 PLOT DATE = 11/20/2009

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 9/29/09	REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - S.N. 084-8011			
SCALE: 5'H : 5'V	SHEET NO.	OF SHEETS	STA. 40+75.00 TO STA. 41+25.00

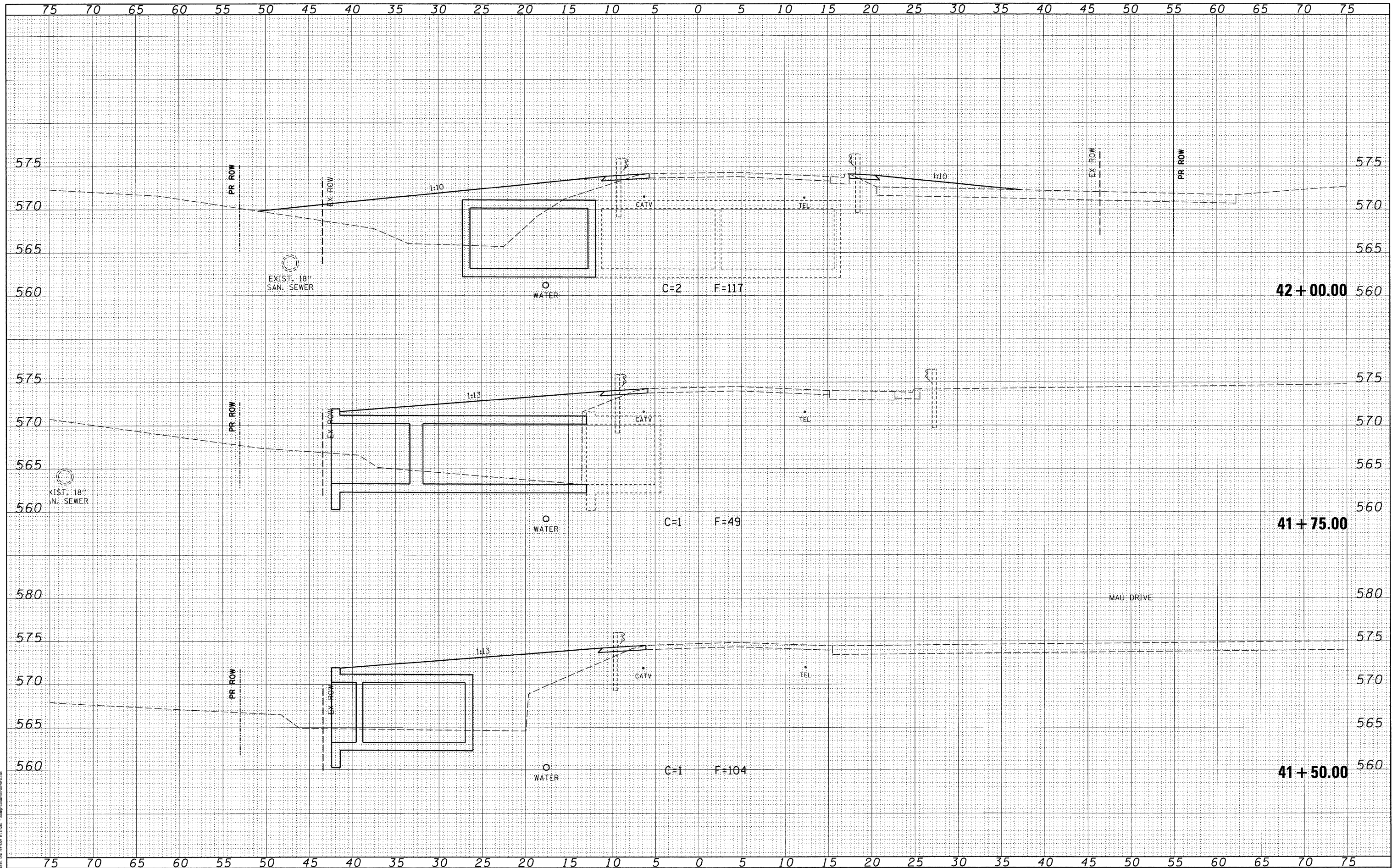
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8153	09-00028-01-DR	SANGAMON	32	22
CONTRACT NO. 093516				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT ARA-5082(009)		

G&B PROJECT: 06167
 PLOT DRIVER = V81.TDS700.PS.LOCAL.IDOT.plt\Fg

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

GREENE & BRADFORD, INC.
 CIVIL ENGINEERS
 1000 N. WASHINGTON ST., SUITE 200
 CHAMPAIGN, ILLINOIS 61820
 (309) 231-1111
 WWW.GREENE-AND-BRADFORD.COM



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-phase1A.dgn
 USER NAME = frankv
 DESIGNED - WCB
 DRAWN - MDS
 CHECKED - WCB
 DATE - 9/29/09
 PLOT SCALE = 5.0000' / in.
 PLOT DATE = 11/20/2009
 G&B PROJECT: 06167
 PLOT DRIVER = V81_TDS700_P5_LOCAL_IDOT.plt\Fg

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 9/29/09	REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - S.N. 084-8011

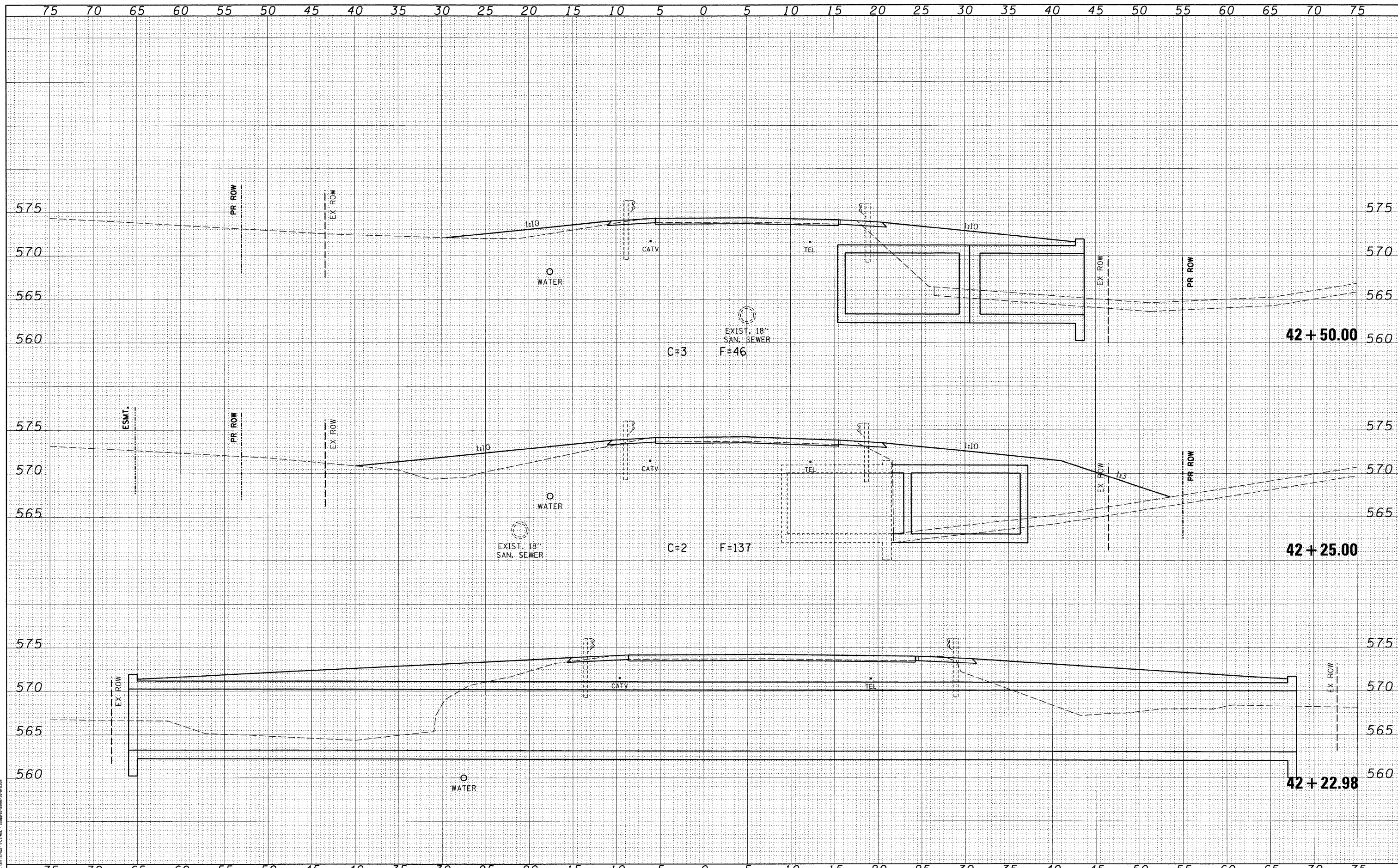
SCALE: 5'H : 5'V SHEET NO. OF SHEETS STA. 41+50.00 TO STA. 42+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	23
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT ARA-5082(009)	
			CONTRACT NO. 93516	

FINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

GREENE & BRADFORD, INC.	DATE
OF SPRINGFIELD	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-phase1A.dgn
 USER NAME = frankv
 DESIGNED - WCB
 DRAWN - MDS
 PLOT SCALE = 5,0000' / 1" = 50000
 CHECKED - WCB
 PLOT DATE = 11/20/2009
 DATE - 9/29/09

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 9/29/09	REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

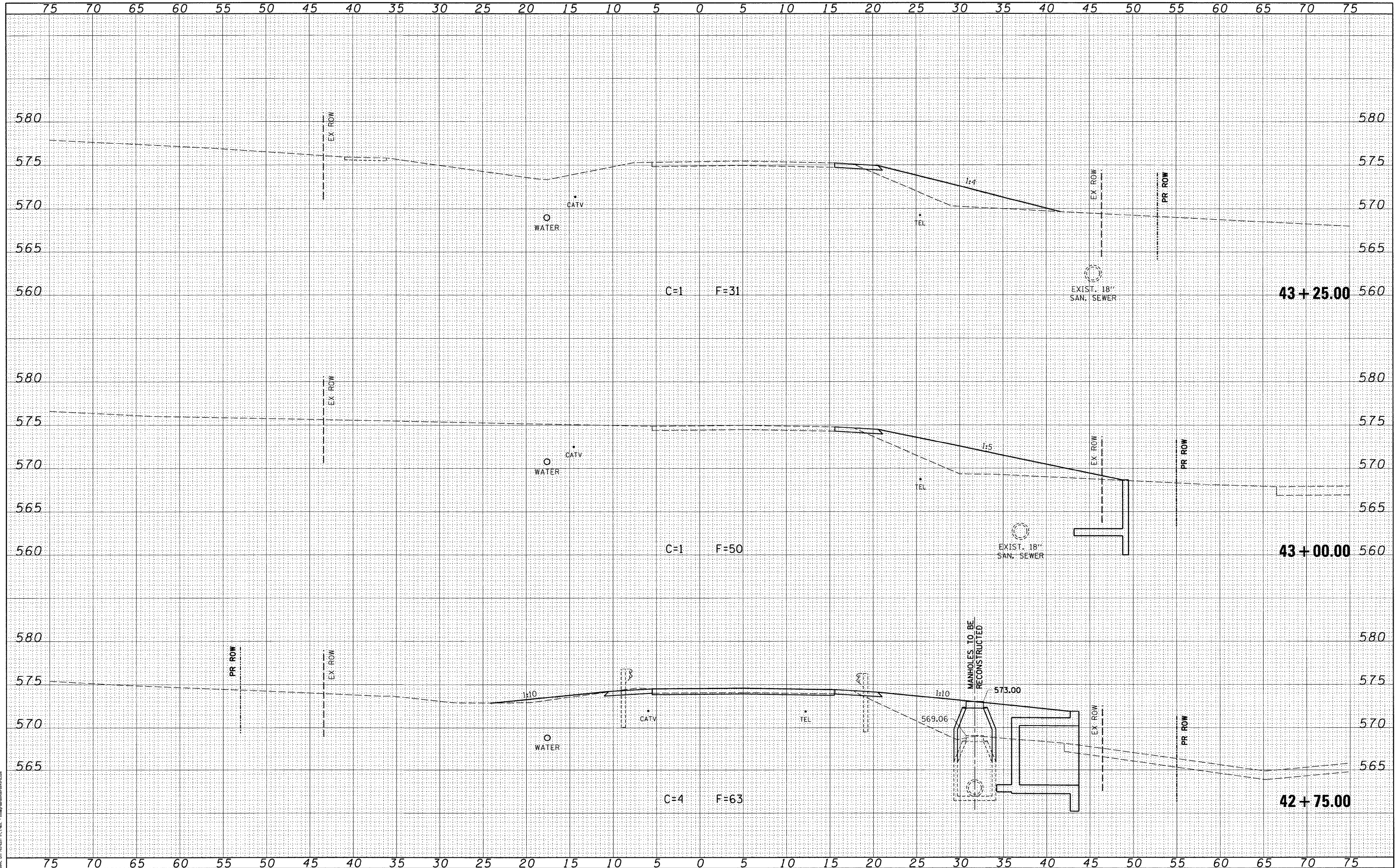
CROSS SECTIONS - S.N. 084-8011			
SCALE: 5'H : 5'V	SHEET NO.	OF SHEETS	STA. 42+22.98 TO STA. 42+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	24
CONTRACT NO. 93516				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT ARA-50820099		

PLOT DRIVER = V81.TDS700_PS.LOCAL_100T.pltcfgr

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



FILE NAME = J:\06167\DRAWINGS\06167-sht-vssht-phase1A.dgn
 USER NAME = frankv
 DESIGNED - WCB
 DRAWN - MDS
 CHECKED - WCB
 DATE - 9/29/09
 PLOT SCALE = 5.0000' / 1" = 50.0000
 PLOT DATE = 11/20/2009
 Q&B PROJECT: 06167
 PLOT DRIVER = V8i_TDS700_PS_LOCAL_IDOT.plt\Fg

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 9/29/09	REVISED -

**VILLAGE OF CHATHAM
GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - S.N. 084-8011

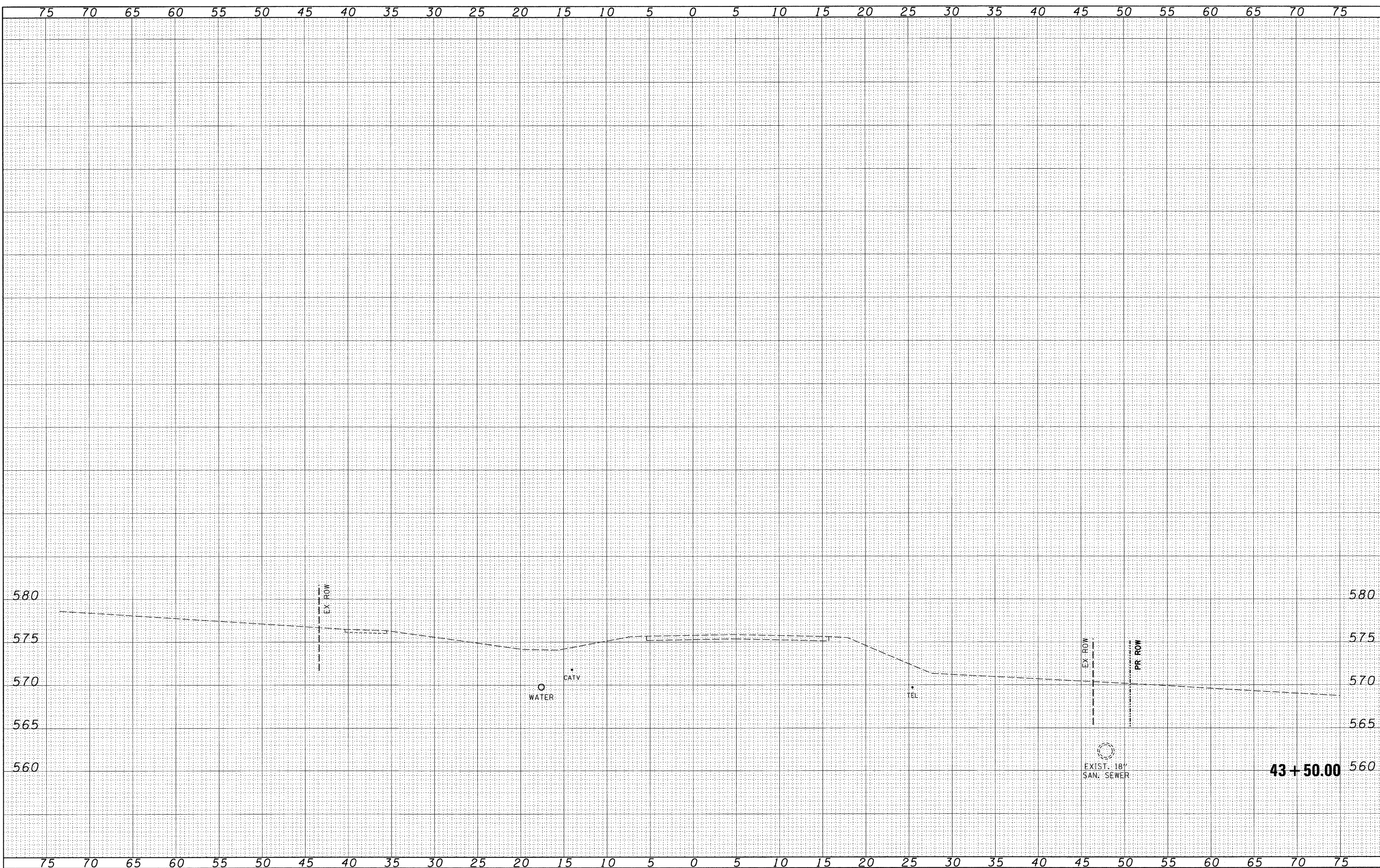
SCALE: 5'H : 5'V SHEET NO. OF SHEETS STA. 42+75.00 TO STA. 43+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	25
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT ARA-5082(009)	
			CONTRACT NO. 093516	

FINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

GREENE & BRADFORD, INC.
 CIVIL ENGINEERS
 1000 N. W. 10th St., Ft. Lauderdale, FL 33304
 (954) 561-1100



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-phase1A.dgn
 USER NAME = frankv
 PLOT SCALE = 5.0000' / in.
 PLOT DATE = 11/20/2009
 C&B PROJECT: 06167
 PLOT DRIVER = V8i_TDS700_PS_LOCAL_IDOT.plt\Fg

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 9/29/09	REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - S.N. 084-8011

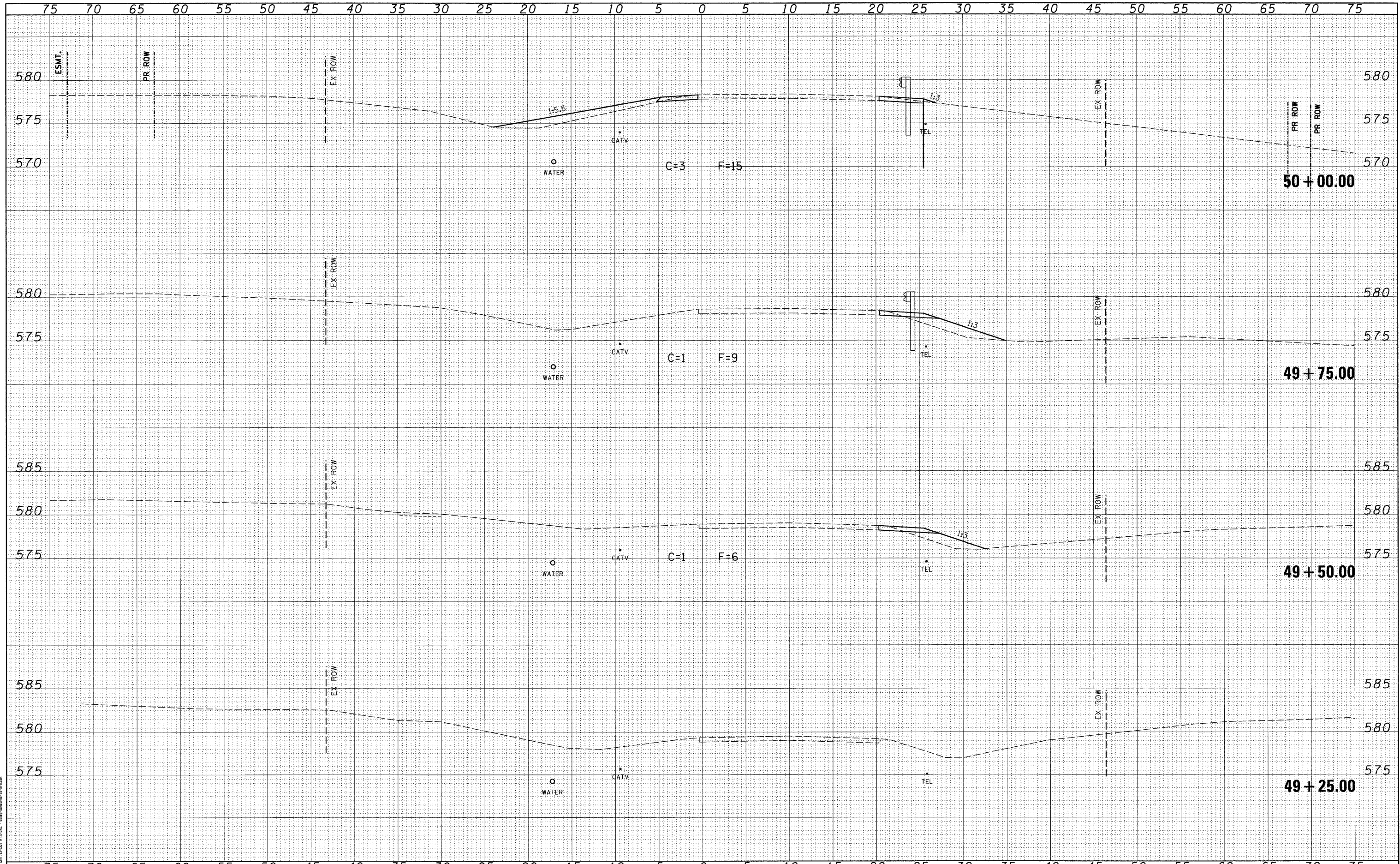
SCALE: 5'H : 5'V	SHEET NO.	OF	SHEETS	STA. 43+50.00	TO STA. 43+50.00
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	26
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT ARA-5082(009)	
			CONTRACT NO. 093516	

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

GREENE & BRADFORD, INC.
 CIVIL ENGINEERS
 1100 S. WASHINGTON ST., SUITE 200
 SPRINGFIELD, ILLINOIS 62760
 PHONE: 217/223-8800
 FAX: 217/223-8801
 WWW: WWW.GREENE-AND-BRADFORD.COM



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-phase1B.dgn
 USER NAME = Frankv
 DESIGNED - WCB
 DRAWN - MDS
 CHECKED - WCB
 DATE - 9/29/09
 PLOT SCALE = 5.0000" / 1"
 PLOT DATE = 11/20/2009
 G&B PROJECT: 06167
 PLOT DRIVER = V8i_TDS700_PS_LOCAL_ID01.plt\Fg

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 9/29/09	REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - 5' x 3' BOX CULVERT

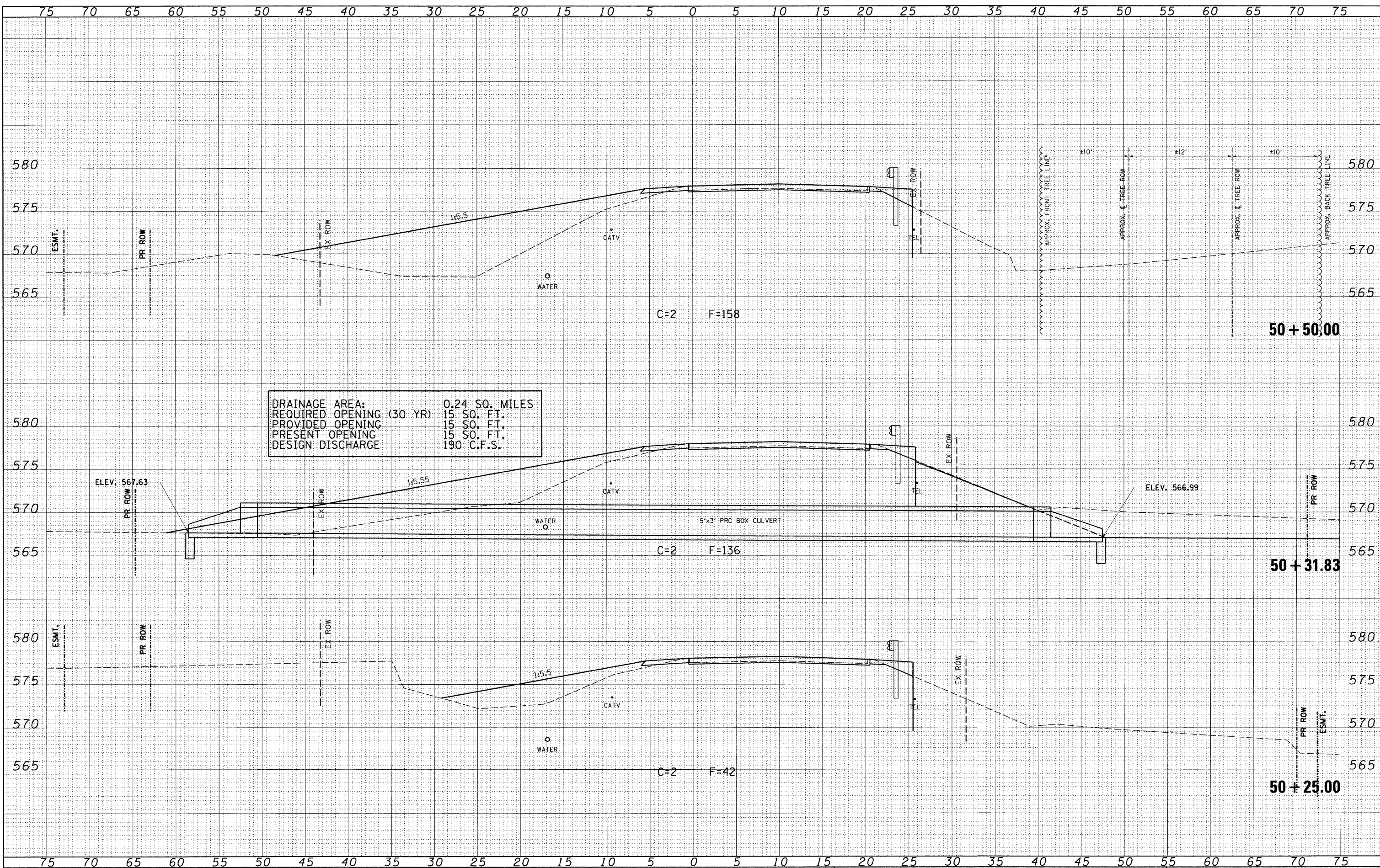
SCALE: 5'H : 5'V SHEET NO. OF SHEETS STA. 49+25.00 TO STA. 50+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	27
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 093516	
			ARA-2085(009)	

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

GREENE & BRADFORD, INC.
 SURVEYING & ENGINEERING
 1000 N. WASHINGTON ST., SUITE 200
 CHAMPAIGN, ILLINOIS 61820
 (312) 299-1100
 WWW.GREENE-AND-BRADFORD.COM



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-phase1B.dgn
 USER NAME = Frankv
 DESIGNED - WCB
 DRAWN - MDS
 CHECKED - WCB
 DATE = 9/29/09
 PLOT SCALE = 5.0000' / 1" = 50.0000' / 100.0000'
 PLOT DATE = 11/20/2009

REVISIONS
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - 5' x 3' BOX CULVERT

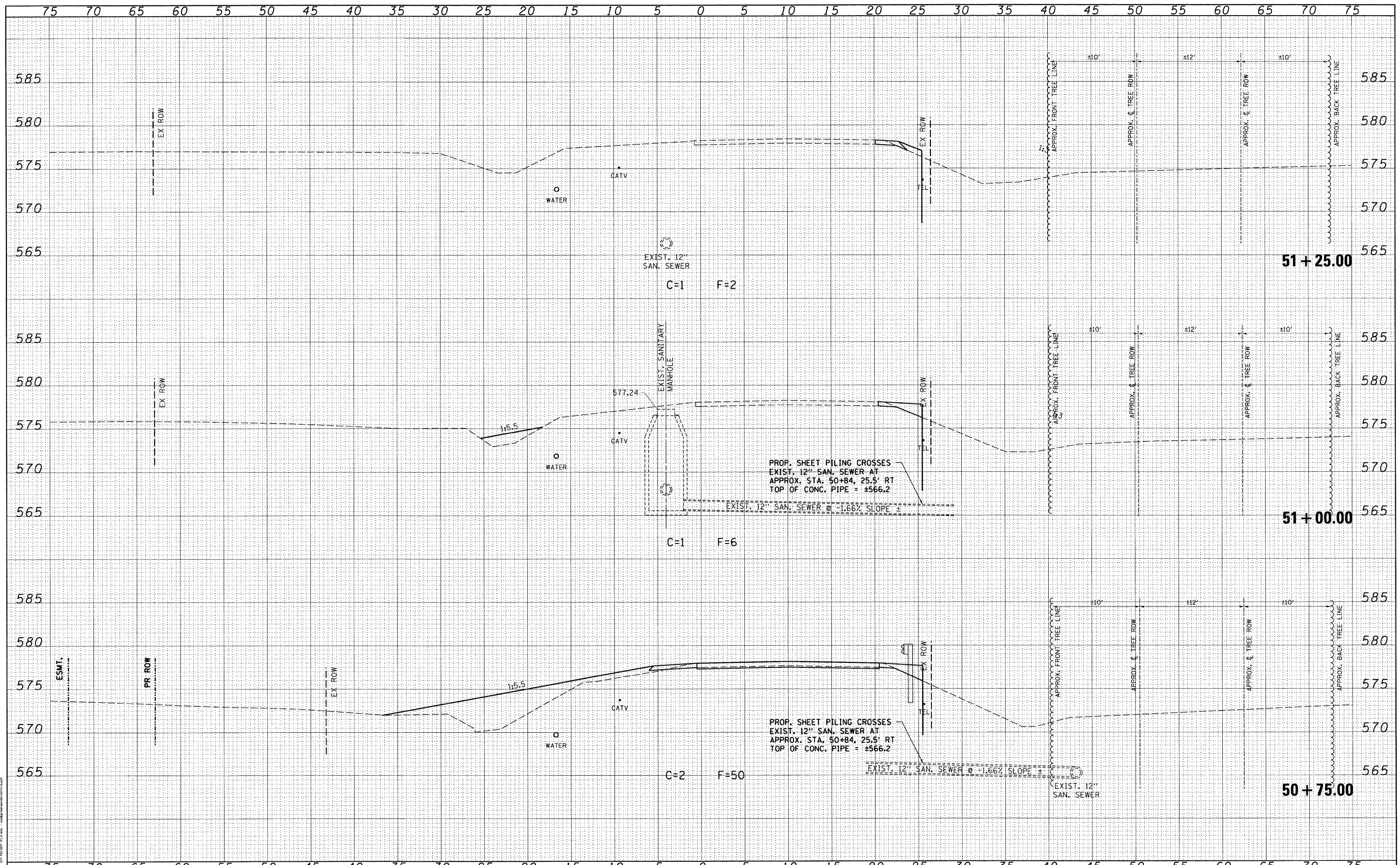
SCALE: 5'H : 5'V SHEET NO. OF SHEETS STA. 50+25.00 TO STA. 50+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	28
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT ARA-2085(009)	
			CONTRACT NO. 93516	

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO.
 AREAS CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO.
 AREAS CHECKED

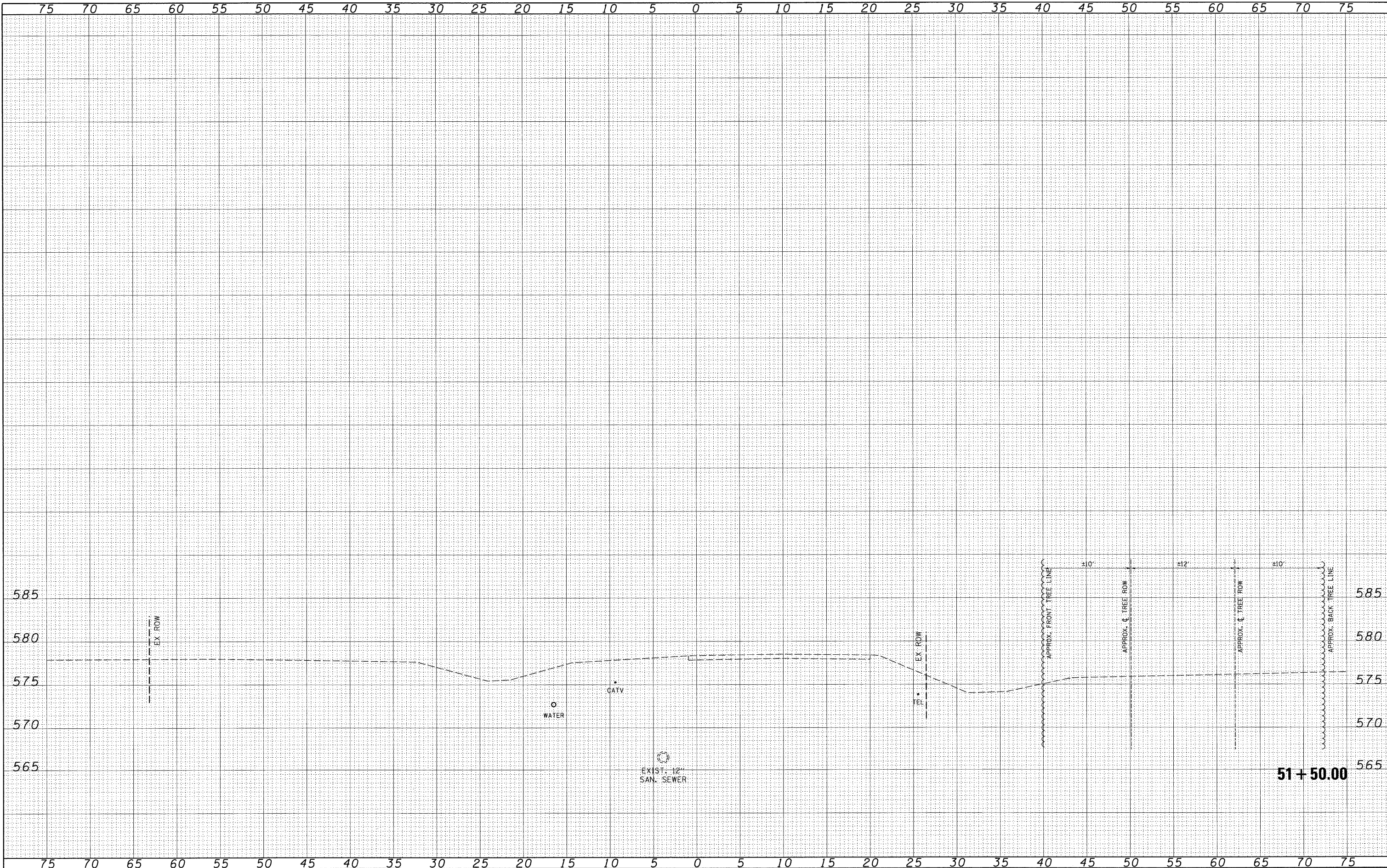
GREENE & BRADFORD, INC.
 CONSULTING ENGINEERS
 1100 N. W. 10th St., Ft. Lauderdale, FL 33304
 (954) 561-1100
 G&B PROJECT: 06167
 PLOT DRIVER = VB1_TDS700_PS_LOCAL_IDDT.pltcf



FILE NAME = J:\06167\DRAWINGS\06167-sht-xsht-phase1B.dgn	USER NAME = Frankv	DESIGNED - WCB	REVISED -	VILLAGE OF CHATHAM GORDON DRIVE IMPROVEMENTS	CROSS SECTIONS - 5' x 3' BOX CULVERT			F.A.U. RTE. 8153	SECTION 09-00028-01-DR	COUNTY SANGAMON	TOTAL SHEETS 32	SHEET NO. 29
PLOT SCALE = 5.00000' / in.	CHECKED - WCB	DATE - 9/29/09	REVISED -		SCALE: 5'H : 5'V	SHEET NO. OF SHEETS	STA. 50+75.00 TO STA. 51+25.00	CONTRACT NO. 93516				
PLOT DATE = 11/20/2009	DATE - 9/29/09	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-2085(009)							

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
NO.	



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-phase1B.dgn
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 PLOT SCALE = 5.0000' / 1" = 5000
 PLOT DATE = 11/20/2009
 G&B PROJECT: 06167
 PLOT DRIVER = V8.TDS700.P5.LOCAL.IDOT.pltcf

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 9/29/09	REVISED -

**VILLAGE OF CHATHAM
GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - 5' x 3' BOX CULVERT

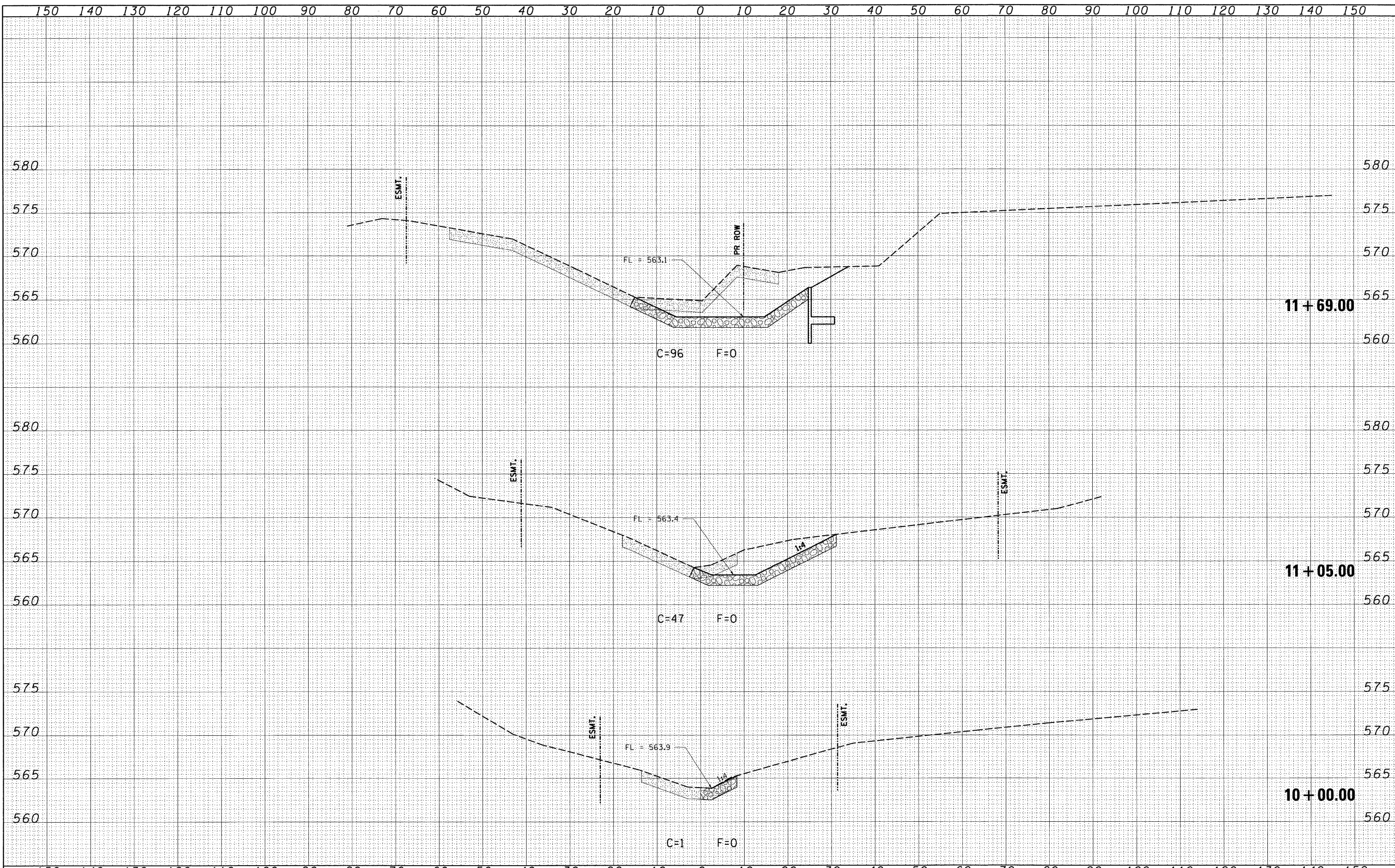
SCALE: 5'H : 5'V SHEET NO. OF SHEETS STA. 51+50.00 TO STA. 51+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	30
CONTRACT NO. 93516				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT ARA-2085(009)		

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

GREENE & BRADFORD, INC.
 CIVIL ENGINEERS
 1000 N. WASHINGTON ST., SUITE 200
 CHAMPAIGN, ILLINOIS 61820
 (309) 556-1100
 FAX (309) 556-1101
 WWW.GREENE-AND-BRADFORD.COM



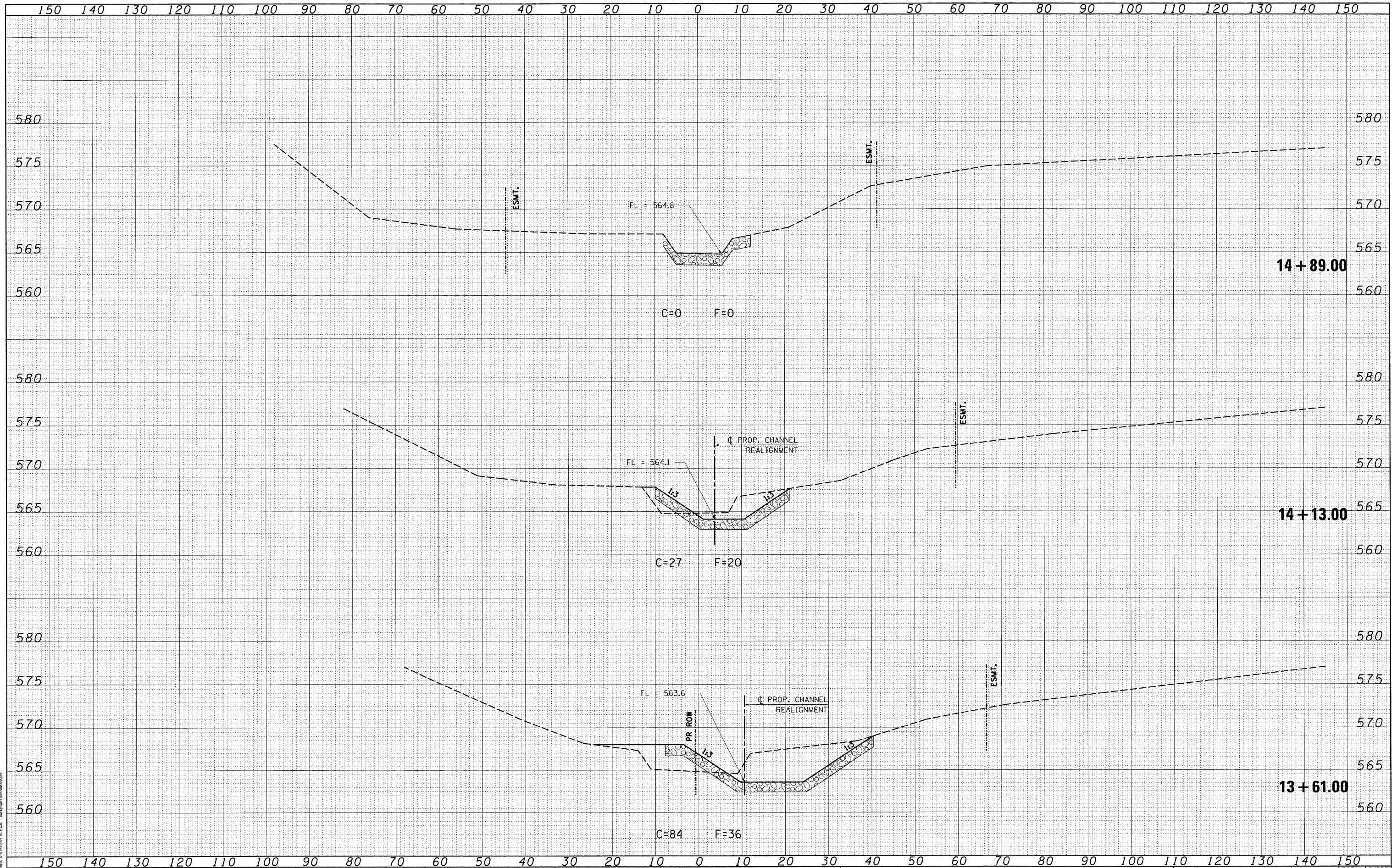
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PLOT SCALE = 10.0000' / in.	CHECKED - WCB	DRAWN - MDS	REVISED -		SCALE:	SHEET NO. OF	SHEETS	STA. 10+00.00 TO STA. 11+69.00	CONTRACT NO. 93510				
PLOT DATE = 11/20/2009	DATE - 10/05/09	CHECKED - WCB	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-5082(009)								
Q&B PROJECT: 06167	DATE - 10/05/09	DATE - 10/05/09	REVISED -										

PLOT DRIVER = V81.TDS700.PS.LOCAL.100T.pltcf

BY	DATE
SURVEYED	
PLOTTED	
DATE	
NO. OF SHEETS	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
DATE	
NO. OF SHEETS	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
DATE	
NO. OF SHEETS	
AREAS CHECKED	
NO.	



FILE NAME = J:\06167\DRAWINGS\06167-sht-xssht-channel.dgn
 USER NAME = frankv
 PLOT SCALE = 10.0000' / 1" / in.
 PLOT DATE = 11/20/2009
 G&B PROJECT: 06167
 PLOT DRIVER = VB1-TDS700.PS.LOCAL.T001.pltcf

DESIGNED - WCB	REVISED -
DRAWN - MDS	REVISED -
CHECKED - WCB	REVISED -
DATE - 10/05/09	REVISED -

**VILLAGE OF CHATHAM
 GORDON DRIVE IMPROVEMENTS**

CROSS SECTIONS - S.N. 084-8011 CHANNEL

SCALE: SHEET NO. OF SHEETS STA. 13+61.00 TO STA. 14+89.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8153	09-00028-01-DR	SANGAMON	32	32
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT ARA-508210091	
			CONTRACT NO. 93516	