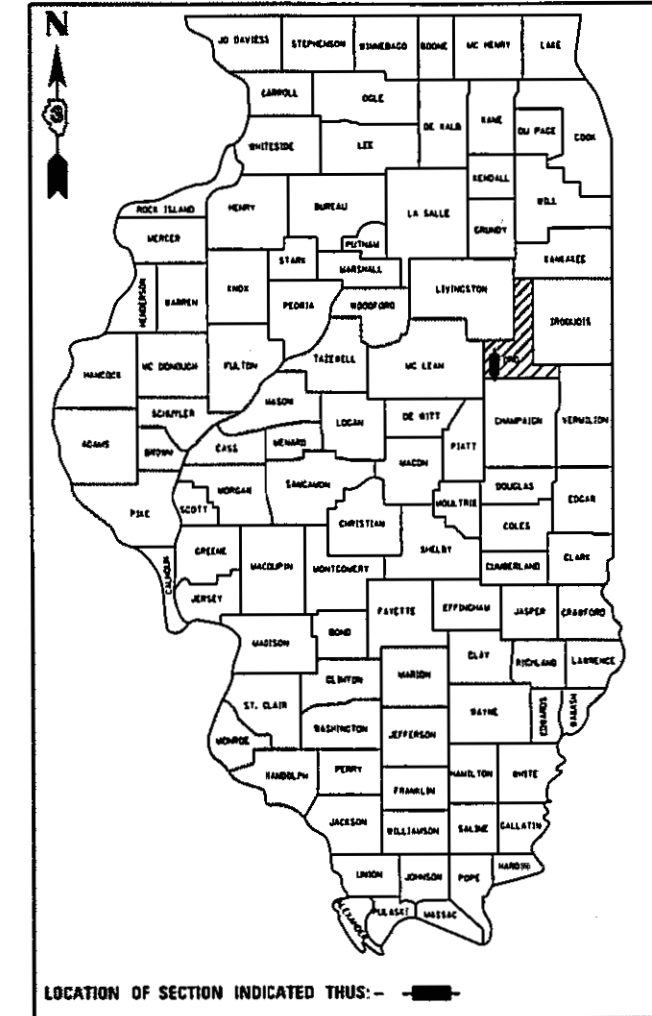


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	1
		ILLINOIS	CONTRACT NO. 66D34	

P-93-016-14
D-93-048-17



FUNCTIONAL CLASSIFICATION
OTHER ARTERIAL (NON URBAN)
2015 ADT = 2950
P.V. = 63.73%
S.U. = 6.61%
M.U. = 29.66%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 17 20 17
[Signature]
REGIONAL ENGINEER

Nov 30 20 17
Maureen M. Addis
ENGINEER OF DESIGN AND ENVIRONMENT

Nov 30 20 17
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROPOSED HIGHWAY PLANS

FAP ROUTE 326 (IL 47)
SECTION 126C-1
PROJECT NHPP-SGQN(080)
STRUCTURE REPLACEMENT
FORD COUNTY

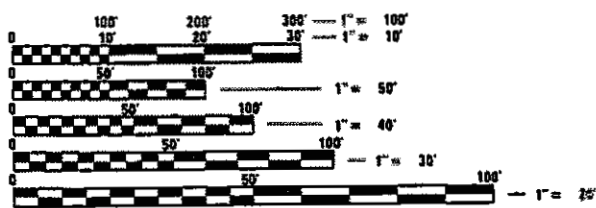
C-93-086-17

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-7 SUMMARY OF QUANTITIES
- 8-9 TYPICAL SECTIONS
- 10-11 SCHEDULES
- 12-13 ALIGNMENT, TIES & BENCHMARKS
- 14 IL 47 PLAN AND PROFILE SHEET
- 15 STAGE CONSTRUCTION TYPICAL SECTIONS
- 16-17 TRAFFIC CONTROL - STAGE 1
- 18-19 TRAFFIC CONTROL - STAGE 2
- 20 EROSION AND SEDIMENT CONTROL
- 21 RIGHT OF WAY
- 22-36 S.N. 027-2524 STRUCTURE PLANS
- 37-39 DETAILS
- 40-44 CROSS SECTIONS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
- 515001-03 NAME PLATE FOR BRIDGES
- 635001-02 DELINEATORS
- 666001-01 RIGHT OF WAY MARKERS
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 701901-07 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



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.

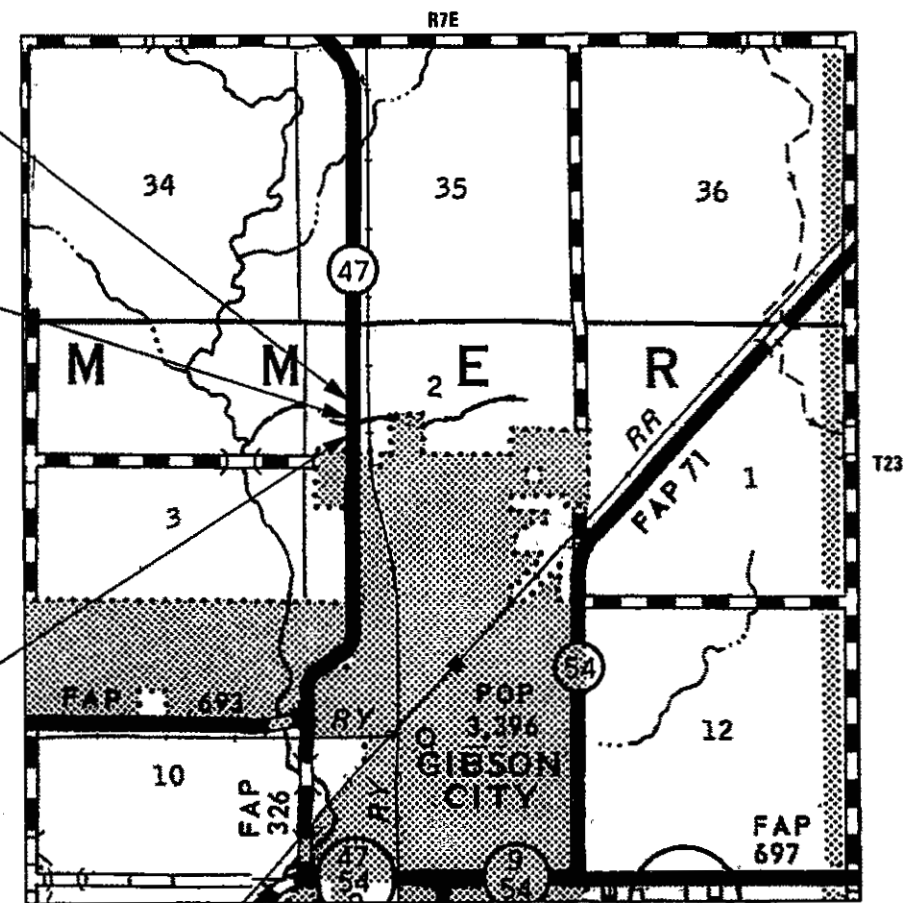
J.U.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
DR 811

PROJECT ENGINEER: DAVE ALEXANDER, P.E.
UNIT CHIEF: BRAD DUNCAN, P.E.
DISTRICT 3 NO. (815)-434-6131
CONTRACT NO. 66D34

PROJECT ENDS
STA 199+45

EXISTING S.N. 027-2524
PROPOSED S.N. 027-2554
DOUBLE PRECAST 8'X5'
BOX CULVERT

PROJECT BEGINS
STA 197+80



GROSS LENGTH = 165.00 FT. = 0.031 MILE
NET LENGTH = 165.00 FT. = 0.031 MILE

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS. DOCUMENTATION REQUIREMENTS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

AT&T

COMMITMENTS

THERE ARE 3 DRAIN TILES THAT DRAIN THE FARM WEST OF THE CULVERT, AND THE GOLF COURSE EAST. THE TILE DRAINS WILL NEED TO BE SET UP PROPERLY DURING AND AFTER THE CONSTRUCTION PROJECT.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

SUPERVISING CONSTRUCTION FIELD ENGINEER

PREPARED BY: *David Beovich*
DISTRICT STUDIES & PLANS ENGINEER

RESIDENT ENGINEER / TECHNICIAN

DATE: 12/17/17

START & END DATES
OF CONSTRUCTION:

EXAMINED BY: *[Signature]*
DISTRICT CONSTRUCTION ENGINEER

INSPECTORS:

Michael A. Sht
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

FILE NAME *	USER NAME * duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
01\pav\p4\p4\p4\p4\duncanbd\0369964\036	0024*shs-cover.dgn	DRAWN -	REVISED -			326	125C-1	FORD	44	2	
#MODELNAME#	PLOT SCALE * 1/8"=1'-0"	CHECKED -	REVISED -			CONTRACT NO. 66034					
	PLOT DATE * 12/12/2017	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				RURAL 80% FEDERAL 20% STATE BOX CULVERT 0004 SN 027-2524
51500100	NAME PLATES	EACH	1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	221	221
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	4	4
54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	FOOT	79	79
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	339	339
60100945	PIPE DRAINS 12"	FOOT	25	25
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	150	150
61100605	MISCELLANEOUS CONCRETE	CU YD	1	1
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	25	25
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	1	1
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	25	25
63200310	GUARDRAIL REMOVAL	FOOT	227	227
63500105	DELINEATORS	EACH	4	4
* 66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4

*

* SPECIALTY ITEMS

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ill084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 3\Projects\036\DRAWING\Bidsheets\0366034-ght-SDD.dwg		CHECKED -	REVISED -					326	126C-1	FORD	44	5
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -		SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.			CONTRACT NO. 66D34				
PLOT DATE = 10/20/2017								ILLINOIS FED. AID PROJECT				

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FEDERAL 20% STATE BOX CULVERT 0004 SN 027-2524
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5
67100100	MOBILIZATION	LSUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	17	17
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	6	6
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1365	1365
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	80	80
70400100	TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2

* SPECIALTY ITEMS

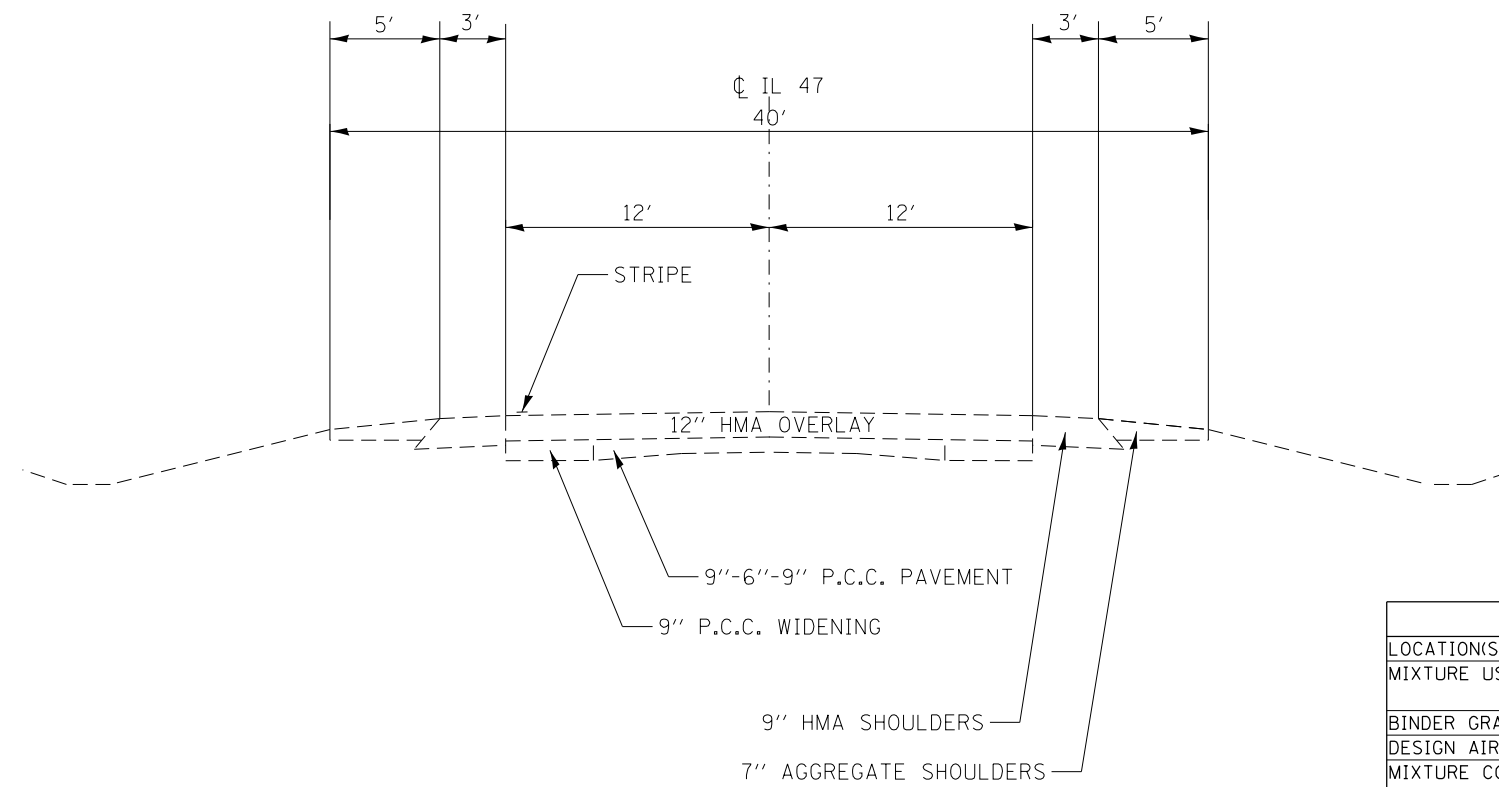
FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL\84EB\INTEG\Illinois.gov\PWIDOT\Documents\DDOT Offices\District 3\Projects\0368\DRAWING\DATA\66D34-shr-S00.dgn		CHECKED -	REVISED -		SCALE:	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.	326	126C-1	FORD	44	6
		DATE -	REVISED -		CONTRACT NO. 66D34								
					ILLINOIS FED. AID PROJECT								

REV

CODE NO.	ITEM	UNIT	RURAL	
			TOTAL QUANTITY	CONSTR. CODE 80% FEDERAL 20% STATE BOX CULVERT 0004 SN 027-2524
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2066	2066
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	80	80
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2	2
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	104	104
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	288	288
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	356	356
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	90	90
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1
Z0062456	TEMPORARY PAVEMENT	SQ YD	356	356

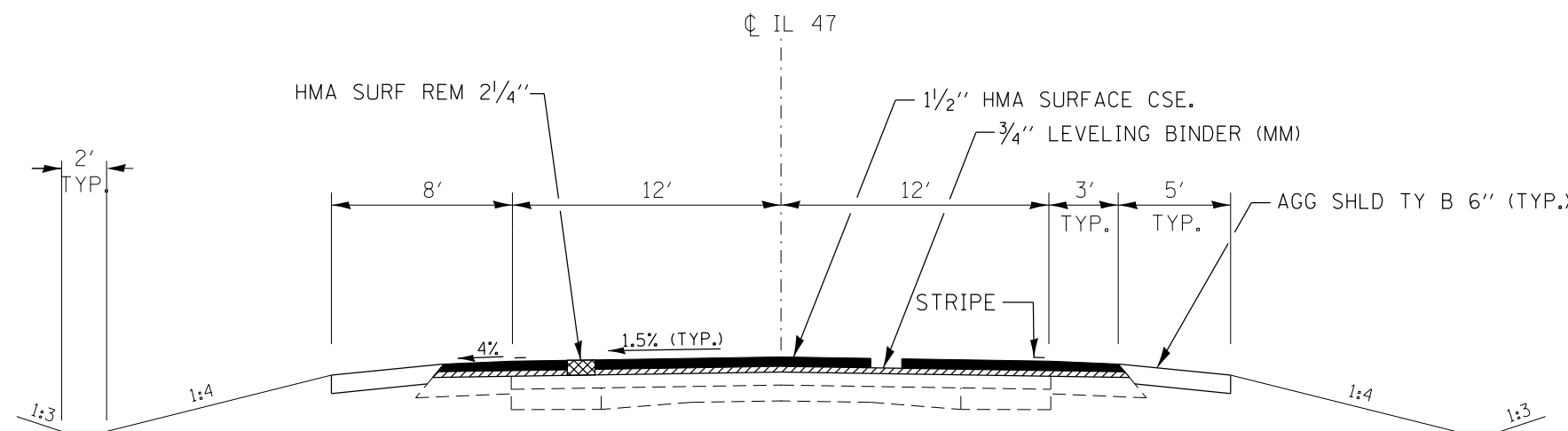
* SPECIALTY ITEMS

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\NL084EB\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\0366\DRAWING\660\66034-sht-500.dgn		CHECKED -	REVISIONS -		326	126C-1	FORD	44	7				
PLOT SCALE = 100,0000 / 1"		DATE -	REVISIONS -		SCALE:	SHEET NO. 5 OF 5 SHEETS	STA.	TO STA.	CONTRACT NO. 66034				
PLOT DATE = 12/20/2017									ILLINOIS FED. AID PROJECT				



EXISTING ROADWAY TYPICAL SECTION

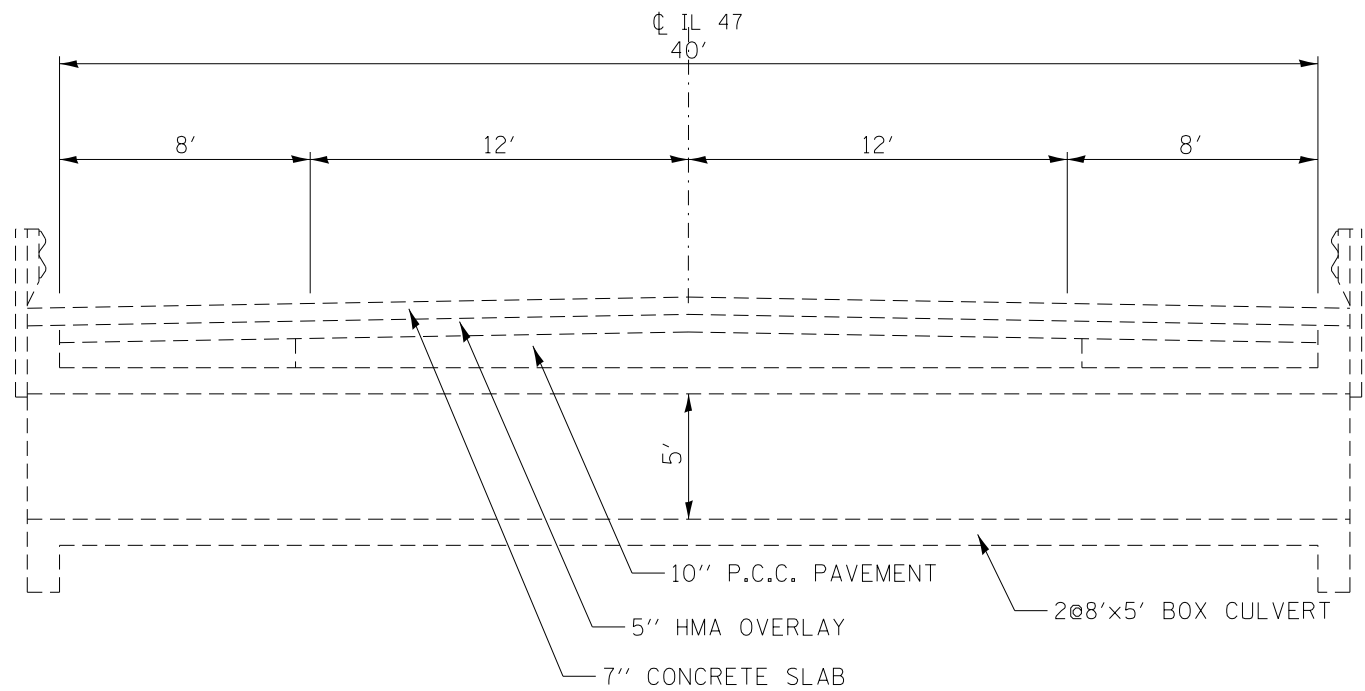
HMA MIXTURE REQUIREMENT TABLE					
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER & TEMPORARY PAVEMENT	LEVELING BINDER	HMA SURFACE	HMA SHOULDERS TOP LIFT	HMA SHOULDERS BOTTOM LIFT
BINDER GRADE (PG):	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION):	IL 19.0	IL 9.5FG	IL 9.5	IL 9.5FG	IL 19.0
FRICITION AGGREGATE:			MIXTURE C		
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES	SATISFACTION OF THE ENGINEER	CORES	SATISFACTION OF THE ENGINEER	CORES



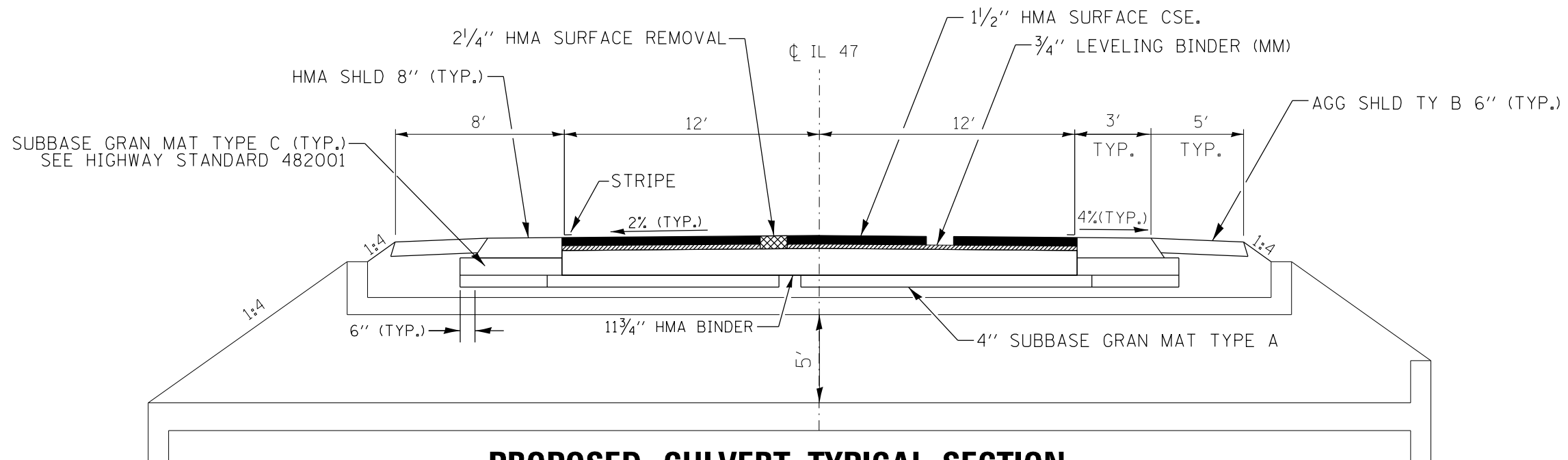
PROPOSED ROADWAY TYPICAL SECTION

STA. 197 + 80 – STA. 198 + 35
STA. 198 + 87 – STA. 199 + 45

NOTE:
 ASSUMED EXISTING ±5' PAVED SHOULDER NEXT TO EXISTING GUARDRAIL TO BE REMOVED AND REPLACED WITH AGGREGATE SHOULDERS.



EXISTING CULVERT TYPICAL SECTION
SN 027-2524



PROPOSED CULVERT TYPICAL SECTION
SN 027-2554
STA. 198 + 35 TO STA. 198 + 87

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pwz\1084EBIDINTEG.illinois.gov:PWIDOT\Documents	S:\DOT Offices\District 3\Projects\66D34\CADData\CA	DRAWN	REVISED -		326	126C-1	FORD	44	9			
PLOT SCALE = 100.0000' / in.	CHECKED -	REVIS	REVISED -		CONTRACT NO. 66D34							
Default	PLOT DATE = 10/20/2017	DATE -	REVISED -		SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT

MAINLINE SCHEDULE														
LOCATION	LENGTH	WIDTH	AREA	HMA SURF REM 2 1/4"	BIT MAT (TACK COAT)	BIT MAT (PRIME COAT)	SUBBASE GRAN MAT TYPE A 4"	SUBBASE GRAN MAT TYPE C	HMA BASE COURSE 11 3/4"	LEVEL BINDER (MM) 9.5FG N50	HMA SURFACE CSE, MIX "C", N50	HMA SHLDS 8"	TEMP RAMP	AGG SHLDS TY B 6"
STA TO STA	FOOT	FOOT	SQ YD	SQ YD	POUND	POUND	SQ YD	TON	SQ YD	TON	TON	SQ YD	SQ YD	SQ YD
196+45.00 TO 197+80.00														150.0
197+80.00 TO 198+35.00	55.00	30.00	183.33	183.3	123.8					7.7	15.4		20.0	61.1
198+35.00 TO 198+87.00	52.00	24.00	138.67	138.7	70.2	312.0	179.0	8.64	137.0	5.8	11.6	34.7		57.8
198+87.00 TO 199+45.00	58.00	30.00	193.33	193.3	130.5					8.1	16.2		20.0	64.4
199+45.00 TO 200+84.00														151.1
TOTAL	165.00		515.33	515	325	312	179	9	137	22	44	35	40	485

GUARDRAIL REMOVAL				
LOCATION	SIDE	GUARDRAIL REMOVAL		
STA TO STA		FOOT		
198+18.20 TO 199+31.70	LEFT	113.5		
197+91.30 TO 199+04.90	RIGHT	113.6		
TOTAL		227		

EARTHWORK				
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-)
STA. TO STA.	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
196+45 - 200+84	96	72	353	-281
TOTAL	96	72	353	-281

QUANTITY INCLUDES:
EXCAVATION FOR TEMP WIDENING
WORK ASSOCIATED WITH
CONSTRUCTING AGG SHLDS

*ASSUMED 25% SHRINKAGE FACTOR
EXCAVATION FOR STRUCTURE REMOVAL AND REPLACEMENT PAID FOR AS STRUCTURE EXCAVATION

ILL. RTE. 47 LOCATION: DITCH, 1.6 MI N OF IL 9 (W) CONTRACT NO. 66D34 FORD COUNTY					
NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
X	NO CENTERLINE PERMANENT SURVEY MARKERS OR	X	X	X	X
X	SECTION CORNERS ARE TO BE SET FOR THIS JOB	X	X	X	X
PRE CONSTRUCTION - THE R.E. MUST TIE AND BRING TO THE ATTENTION OF THE PLATS AND PLANS MANAGER ANY UNLISTED MONUMENTS FOUND.					

REMOVAL ITEMS					
LOCATION	SIDE	PAVEMENT REMOVAL	**TEMPORARY PAVEMENT REMOVAL	*PAVED SHOULDER REMOVAL	
STA TO STA		SQ YD	SQ YD	SQ YD	
198+06.00 TO 198+35.00	LEFT			14.6	
198+35.00 TO 198+51.60	LEFT			13.7	
198+71.10 TO 198+87.00	LEFT			13.0	
198+87.00 TO 199+40.00	LEFT			26.1	
197+83.00 TO 198+35.00	RIGHT			32.2	
198+35.00 TO 198+51.60	RIGHT			14.0	
198+71.10 TO 198+87.00	RIGHT			13.4	
198+87.00 TO 199+18.00	RIGHT			17.7	
198+35.00 TO 198+51.60		44.6			
198+71.10 TO 198+87.00		42.6			
STAGE 1 TEMP PAVT AREA			150.2		
STAGE 2 TEMP PAVT AREA			205.6		
TOTAL		87	356	145	

*SEE NOTE IN TYPICALS PERTAINING TO EXISTING PAVED SHOULDER
**ASSUMED REMOVAL OF TEMPORARY PAVEMENT USED FOR STAGING.

MODEL: MODELNAMES
FILE NAMES: SHEETS

USER NAME = duncanbd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	10
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL				
LOCATION	SIDE	TEMP	TEMP	PERIMETER
		EROS CONT SEEDING POUND	DITCH CHECKS FOOT	EROSION BARRIER FOOT
196+45 - 200+78	LT	26		
196+45 - 200+84	RT	19		
198+46	LT		10	
198+46	RT		10	
198+77	LT		10	
198+77	RT		10	
197+80 - 198+49	LT			69
197+80 - 198+49	RT			69
198+74 - 199+45	LT			71
198+74 - 199+45	RT			71
TOTAL		45	40	280

LANDSCAPING						
LOCATION	SIDE	SEEDING CLASS 2	EROSION CONTROL BLANKET	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
		ACRE	SQ YD	POUND	POUND	POUND
196+45 - 200+78	LT	0.26	1264	23	23	23
196+45 - 200+84	RT	0.19	903	17	17	17
TOTAL		0.45	2167	40	40	40

ROW MARKERS		
LOCATION	SIDE	FURN & ERECT ROW MARKERS
		EACH
197+30	48.83' LT	1
197+80	60' LT	1
199+45	60' LT	1
199+95	48.70' LT	1
TOTAL		4

DELINEATORS		
LOCATION	SIDE	DELINEATOR
		EACH
198+45	LT	1
198+45	RT	1
198+78	LT	1
198+78	RT	1
TOTAL		4

PLACE ALONG SHOULDER

PAVEMENT MARKING								
LOCATION	PAINT			RAISED REFL PAVT MARK EACH	TEMPORARY		SHORT TERM PAVT MARK FOOT	SHORT TERM PAVEMENT MARKING REMOVAL SQ FT
	LINE 4"		LINE 6"		**LINE 4"	LINE 6"		
	2 APPLICATIONS							
	WHITE FOOT	YELLOW FOOT	YELLOW FOOT					
SN 027-2524								
197+80 - 199+45								
CENTERLINE			80	2.00		80	17	6
NO PASSING ZONE		226						
EDGE LINES	660				1365			
*STAGING	1180							
TOTAL	1840	226	80	2	1365	80	17	6

*ADDITIONAL QUANTITY INCLUDED TO REPLACE LINES THAT MAY BE REMOVED DURING STAGING

**ADDITIONAL 4" TEMPORARY LINES INCLUDED FOR STAGING. ESTIMATED QUANTITY IS IN ADDITION TO WHAT IS SHOWN AND PAID FOR UNDER STD. 701321

WORK ZONE TRAFFIC CONTROL									
LOCATION	SIDE	TEMPORARY PAVEMENT	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE TEST LEVEL 3	PAVT MARK REMOVAL - WATER BLASTING	
		STA TO STA	SQ YD	FOOT	FOOT	EACH	EACH	EACH	SQ FT
PRE-STAGE 1									
196+45.00	TO	198+06.00	LEFT	81.6					
199+40.00	TO	200+78.00	LEFT	68.6					
STAGE 1									
196+55.00	TO	197+55.00	LEFT		100.0		1		
197+55.00	TO	197+80.00	LEFT		25.0				
197+80.00	TO	199+42.50	LEFT		162.5				
199+42.50	TO	199+70.00	LEFT		25.0				
199+70.00	TO	200+70.00	LEFT		100		1		
196+36.00	TO	200+89.00	LEFT					150	
STAGE 2									
196+45.00	TO	197+83.00	RIGHT	82.4					
198+35.00	TO	198+87.00	RIGHT	28.9					
199+18.00	TO	200+84.00	RIGHT	94.3					
196+33.00	TO	198+35.00	RIGHT					67	
198+87.00	TO	201+00.00	RIGHT					71	
196+55.00	TO	197+55.00	RIGHT		100		1		
197+55.00	TO	197+80.00	RIGHT		25	3			
197+80.00	TO	199+42.50	RIGHT		162.5	39			
199+42.50	TO	199+70.00	RIGHT		25	3			
199+70.00	TO	200+70.00	RIGHT		100		1		
TOTAL				356	412.5	412.5	90	2	288

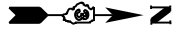
MODEL: MODELNAMES
FILE NAMES: FILES

USER NAME = duncanbd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2017	DATE -	REVISED -

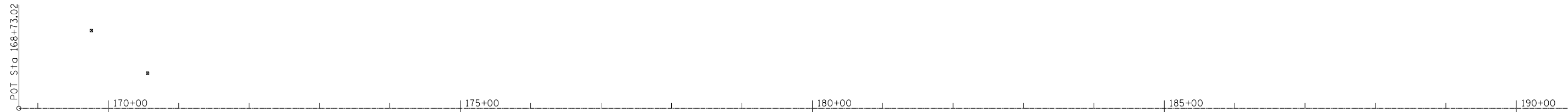
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES			
SCALE: NTS	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	11
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				



HORIZONTAL CONTROL POINTS						
POINT	NORTHING	EASTING	STATION EXISTING ALIGNMENT	STATION EXISTING OFFSET	ELEVATION	DESCRIPTION
50	1388239.3721	971066.5932	168+73.02	CENTERLINE		POT



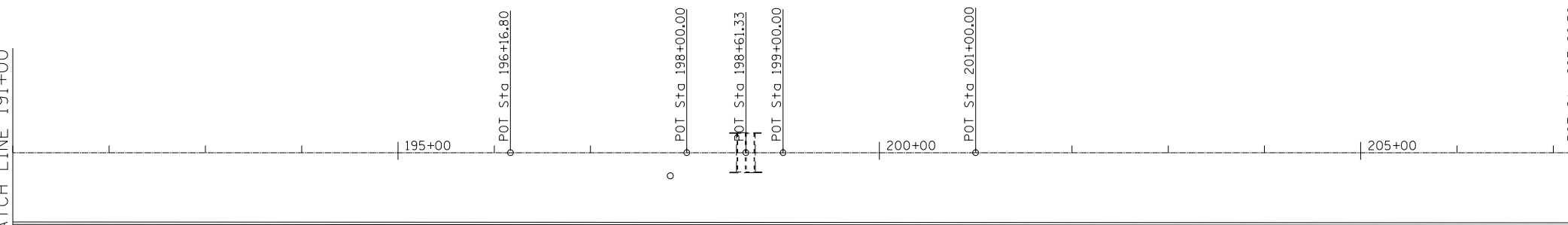
MATCH LINE 191+00

BENCHMARKS						
NO.	NORTHING	EASTING	STATION EXISTING ALIGNMENT	OFFSET EXISTING ALIGNMENT	ELEVATION	DESCRIPTION
9047	1390273.896	966679.2155	171+12.78	53.83' RT	760.37	TOP ROW MARKER
9048	1390271.402	966614.4319	170+48.01	56.32' RT	760.68	TOP ROW MARKER
9051	1390377.577	966622.3464	170+55.92	49.85' LT	763.31	TOP ROW MARKER

BENCHMARKS						
NO.	NORTHING	EASTING	STATION EXISTING ALIGNMENT	OFFSET EXISTING ALIGNMENT	ELEVATION	DESCRIPTION
47500	1391149.1810	971096.1070	197+82.88	24.09' RT	762.288	80d SPIKE
BMI	1389556.9700	967248.8344	198+51.73	20.76' RT	763.6	CHIS '□' ON SE CORNER
47501	1392087.8620	971041.0860	207+21.46	32.68' LT	767.278	80d SPIKE



MATCH LINE 191+00



HORIZONTAL CONTROL POINTS						
POINT	NORTHING	EASTING	STATION EXISTING ALIGNMENT	STATION EXISTING OFFSET	ELEVATION	DESCRIPTION
51	1390983.1473	971071.7081	196+16.80	CENTERLINE		POT
47500	1391149.1810	971096.1070	197+82.88	24.09' RT	762.288	SURVEY POINT
52	1391166.3467	971072.0496	198+00	CENTERLINE		POT
54	1391227.6746	971072.1640	198+61.33	CENTERLINE		POT
56	1391266.3465	971072.2361	199+00	CENTERLINE		POT
58	1391466.3462	971072.6089	201+00	CENTERLINE		POT
47501	1392087.8620	971041.0860	207+21.46	32.68' LT	767.278	SURVEY POINT
59	1392092.8479	971073.7768	207+26.50	CENTERLINE		POT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES &
BENCHMARKS**

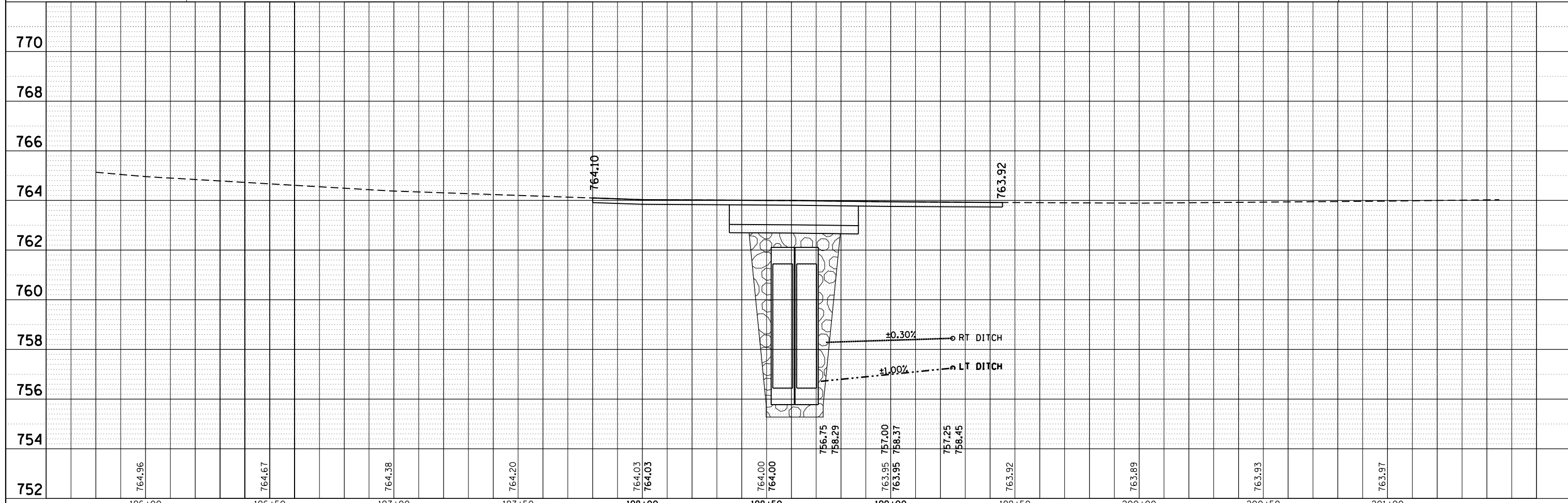
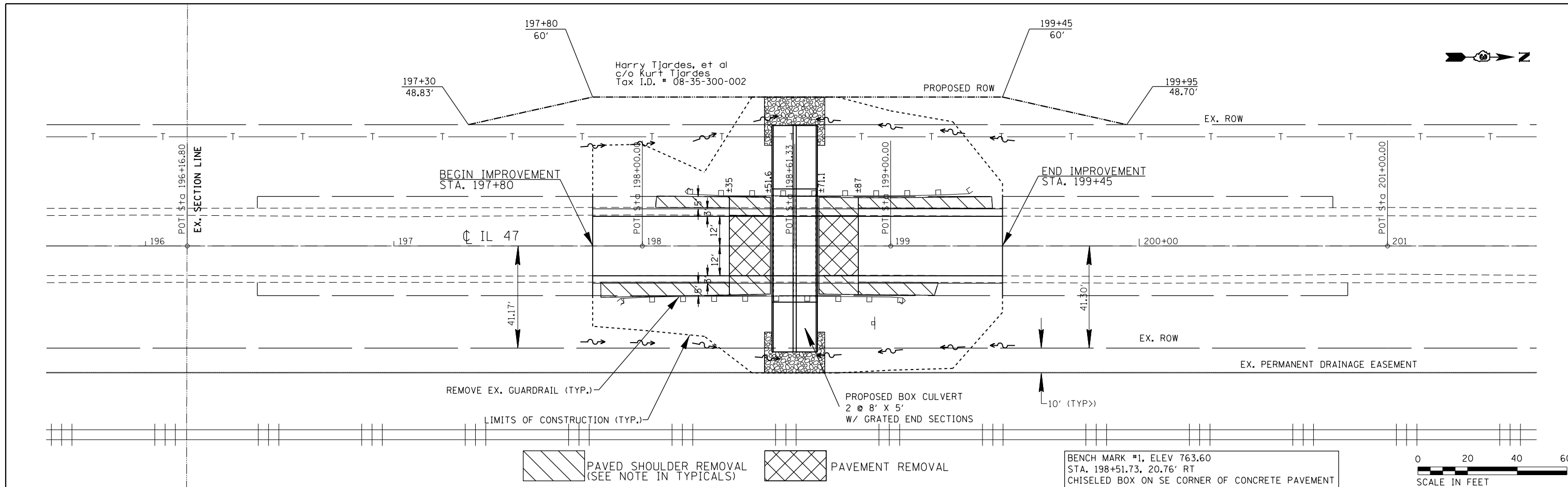
SCALE: 1:75 SHEET 1 OF 2 SHEETS STA. 168+73.02 TO STA. 207+26.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	12
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

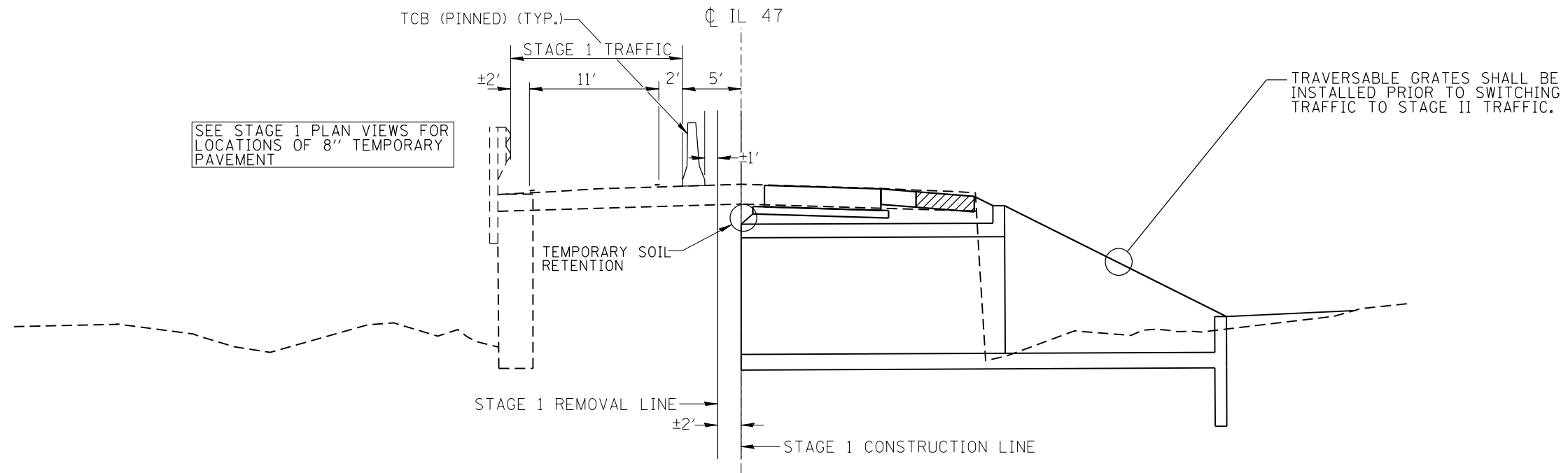
MODEL: Default
FILE: \\nas01\B&E\ID\ITC\Illinois\pwr\RID\DOT\Documents\DOT_Offices\IDirect_3\Projects\66D34\CADD\B&E\CAD\Sheet\66D34-shc-ATB.dgn

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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NO.		
	STRUCTURE		
	NOT AT THIS OFFICE		

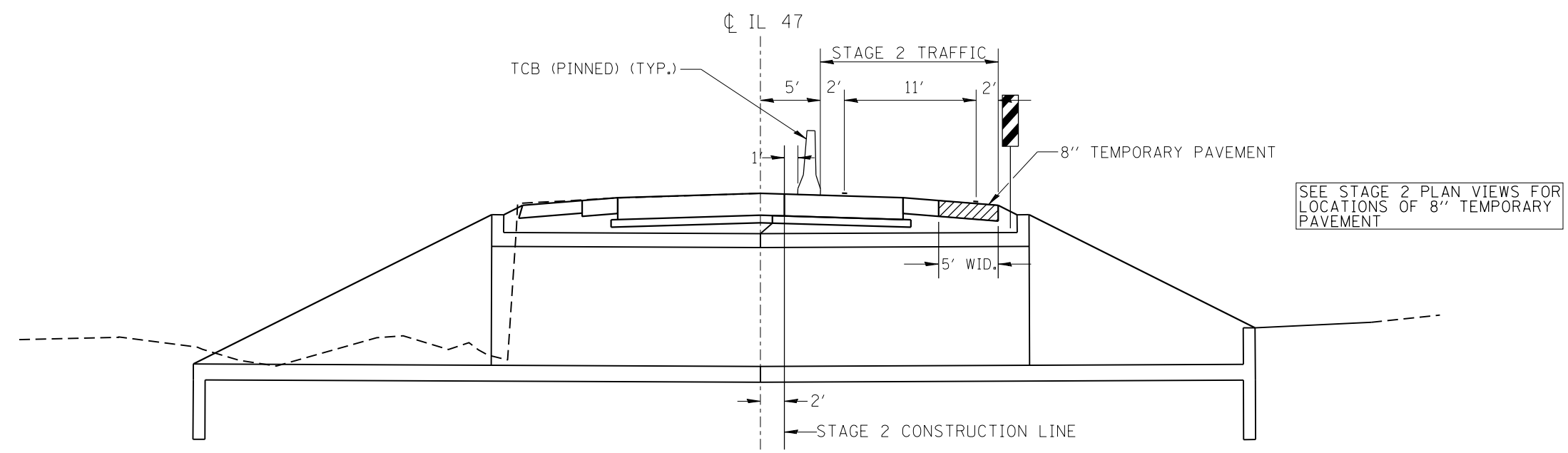


FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 77 PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			326	126C-1	FORD	44	14	
		DATE -	REVISED -			CONTRACT NO. 66034					
						ILLINOIS FED. AID PROJECT					



STAGE 1

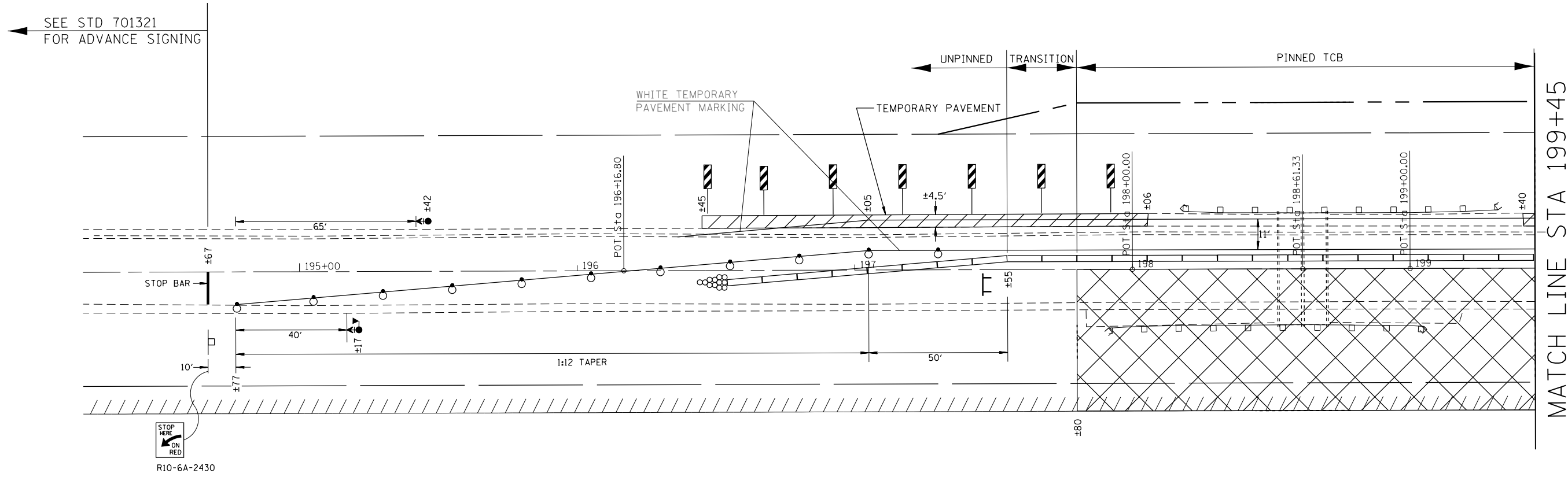
DIMENSIONS SHOWN MAY VARY DEPENDING ON LENGTH OF THE INDIVIDUAL PRECAST BARREL SECTIONS.



STAGE 2

SEE STAGE 2 PLAN VIEWS FOR LOCATIONS OF 8" TEMPORARY PAVEMENT








FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\0366\Drawings\EA\Drawings\0366034-shr-staging	DRAWN	REVISION	REVISION		326	126C-1	FORD	44	15			
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 66D34			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 10/20/2017	DATE -	REVISED -		SCALE: NTS	SHEET 1 OF 5 SHEETS	STA.	TO STA.				



STOP HERE ON RED
R10-6A-2430



SYMBOLS

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  TRAFFIC SIGNAL WITH BACKPLATE & MICROWAVE DETECTOR
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  IMPACT ATTENUATOR
-  DELINEATOR

GENERAL NOTES

1. 8" OF TEMPORARY PAVEMENT SHALL BE PLACED PRIOR TO STAGE 1 USING STANDARD 701326.
2. SEE HIGHWAY STANDARD 701201, 701321 AND 701326 FOR ADDITIONAL TRAFFIC CONTROL INFORMATION.
3. TEMPORARY BRIDGE TRAFFIC SIGNALS, TEMPORARY CONCRETE BARRIER, AND IMPACT ATTENUATOR WILL BE PAID FOR SEPARATELY.
4. STATIONING SHOWN IS APPROXIMATE. ACTUAL LOCATIONS MAY BE ADJUSTED TO MEET EXISTING FIELD CONDITIONS.

MODEL: Default
 FILE NAME: p:\u0008\BID\NTEC\Illinois.gov\PI\DOT\Documents\DOT_Offices\Director\Projects\0366D34\CADD\DATA\CAD\sheet\0366D34-shc-Traffic_control_plan.dgn

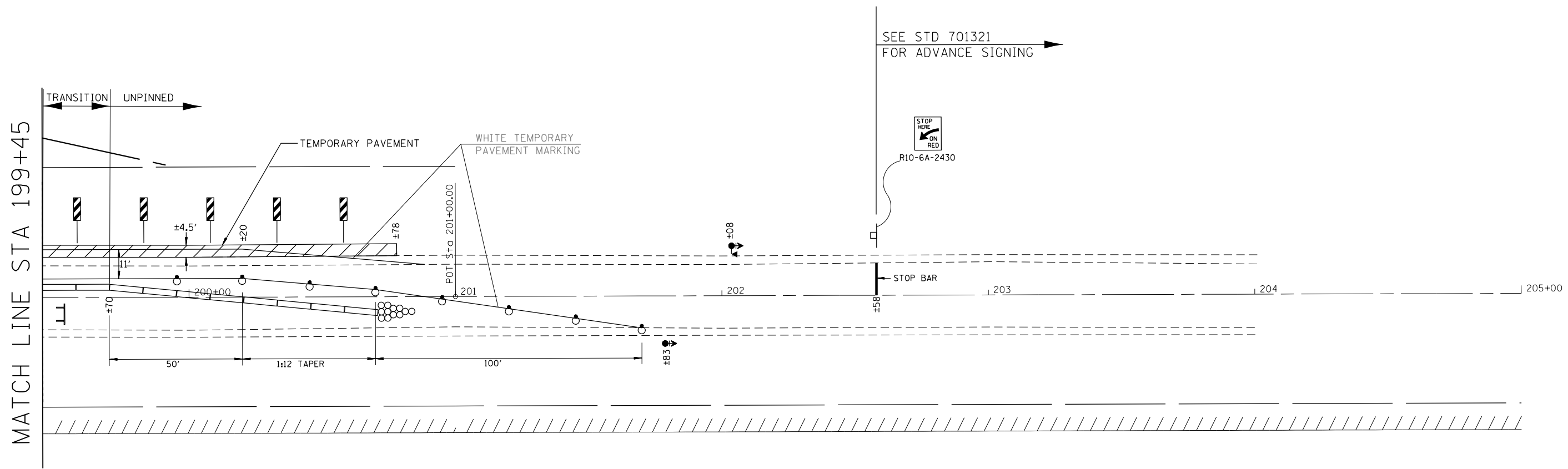
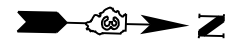
USER NAME = duncanbd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

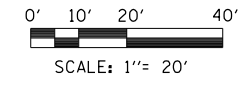
TRAFFIC CONTROL - STAGE 1

SCALE: 1:20 SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	16
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 199+45



SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL WITH BACKPLATE & MICROWAVE DETECTOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- IMPACT ATTENUATOR
- DELINEATOR

GENERAL NOTES

1. 8" OF TEMPORARY PAVEMENT SHALL BE PLACED PRIOR TO STAGE 1 USING STANDARD 701326.
2. SEE HIGHWAY STARDARD 701201, 701321 AND 701326 FOR ADDITIONAL TRAFFIC CONTROL INFORMATION.
3. TEMPORARY BRIDGE TRAFFIC SIGNALS, TEMPORARY CONCRETE BARRIER, AND IMPACT ATTENUATOR WILL BE PAID FOR SEPARATELY.
4. STATIONING SHOWN IS APPROXIMATE. ACTUAL LOCATIONS MAY BE ADJUSTED TO MEET EXISTING FIELD CONDITIONS.

MODEL: Default
FILE: \\nashc-pw\illinois\dot\Documents\DOT_Offices\Director\Projects\66D34\CADD\DATA\CAD\sheet\66D34-shc-Traffic-control_plan.dgn

USER NAME = duncanbd	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 10/20/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

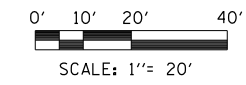
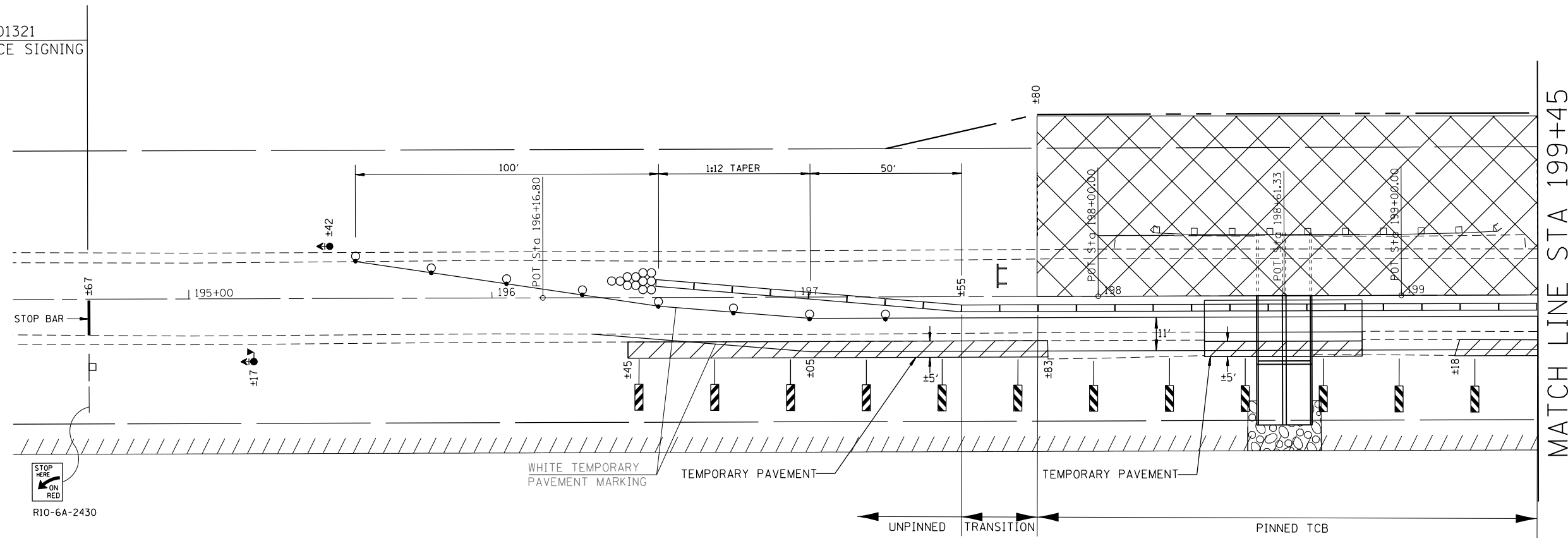
TRAFFIC CONTROL - STAGE 1

SCALE: 1:20 SHEET 3 OF 5 SHEETS STA. TO STA.







F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	17
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				



SEE STD 701321
FOR ADVANCE SIGNING



SYMBOLS

-  WORK AREA
-  SIGN
-  TYPE III BARRICADE
-  TRAFFIC SIGNAL WITH BACKPLATE & MICROWAVE DETECTOR
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  IMPACT ATTENUATOR

GENERAL NOTES

1. SEE HIGHWAY STANDARD 701201, 701321 AND 701326 FOR ADDITIONAL TRAFFIC CONTROL INFORMATION.
2. TEMPORARY BRIDGE TRAFFIC SIGNALS, TEMPORARY CONCRETE BARRIER, AND IMPACT ATTENUATOR WILL BE PAID FOR SEPARATELY.
3. STATIONING SHOWN IS APPROXIMATE. ACTUAL LOCATIONS MAY BE ADJUSTED TO MEET EXISTING FIELD CONDITIONS.

MODEL: Default
FILE NAME: p:\u0008\BEBID\NTEC\Illinois\pov\PIV\DOT\Documents\DOT_Offices\DI\erfct_3\Projects\0366D34\CADD\Bids\CAD\Sheet\0366D34-shc-Traffic_control_plan.dgn

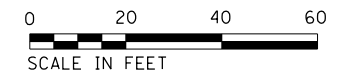
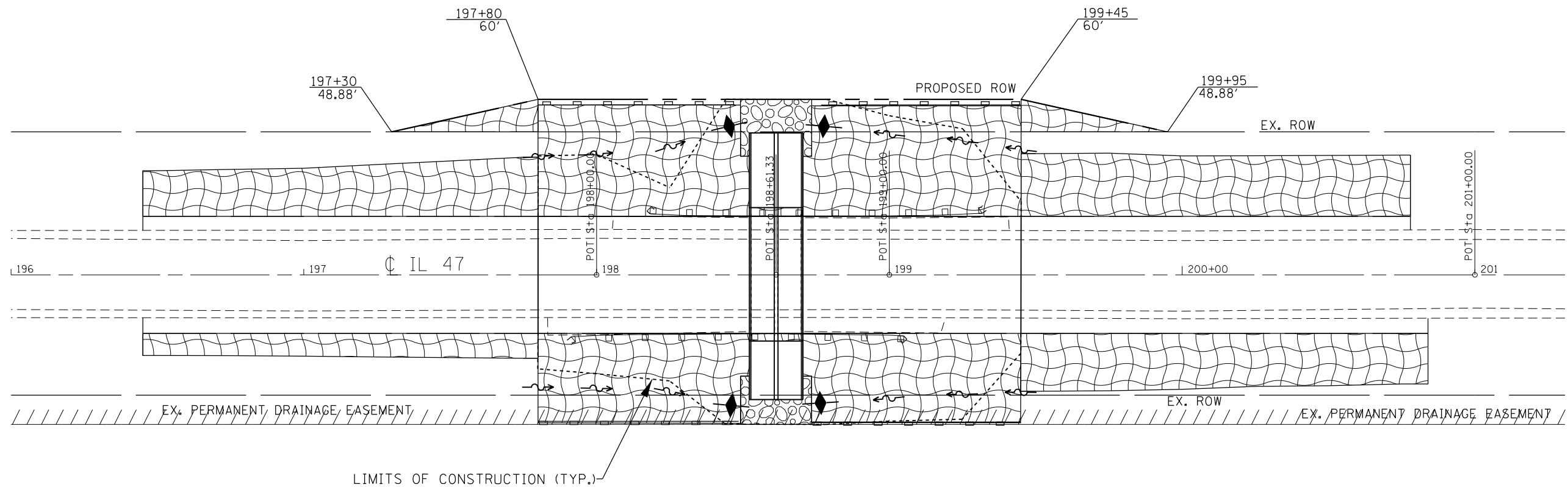
USER NAME = duncanbd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




TRAFFIC CONTROL - STAGE 2

SCALE: 1:20 SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	18
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				



LEGEND

-  EROSION CONTROL BLANKET & SEEDING CLASS 2;
TEMPORARY EROSION CONTROL SEEDING
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -
pw:\IL084EBDINTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366D34\CADData\CADsheets\0366D34.dgn		DRAWN -	REVISED -
Default		CHECKED -	REVISED -
	PLOT SCALE = 40,0000' / 1in.	DATE -	REVISED -
	PLOT DATE = 10/20/2017		

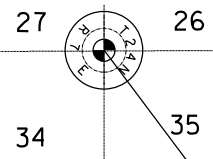
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL

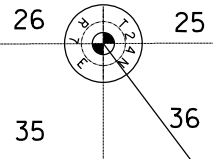
SCALE: 1:20 SHEET 1 OF 1 SHEETS STA. 197+00 TO STA. 201+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	20
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

SOUTHWEST 1/4 OF SEC. 35,
T. 24 N., R. 7 E., 3RD P.M.



N.W. COR. OF SEC. 35, T. 24 N., R. 7 E., 3RD P.M.
MONUMENT RECORD #91-189210
FOUND IRON PIN
NORTHING: 1,396,291.42
EASTING: 969,848.00



N.E. COR. OF SEC. 35, T. 24 N., R. 7 E., 3RD P.M.
MONUMENT RECORD #03-226084
FOUND P.K. NAIL
NORTHING: 1,396,289.89
EASTING: 972,488.77



PARCEL 3YG0001

KURT D. TJARDES, ET AL.

TOTAL HOLDING = 163.000 AC. +/-
TOTAL R.O.W. REQUIRED = 0.055 AC. +/- (2,415 SQ.FT. +/-)
REMAINDER = 162.945 AC. +/-

SURVEYOR'S STATEMENT

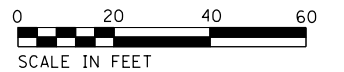
I, JEFFERY J. CIMEI, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS. THAT THE SURVEY OF F.A.P. 607 (U.S. 52) WAS MADE BY ME OR UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



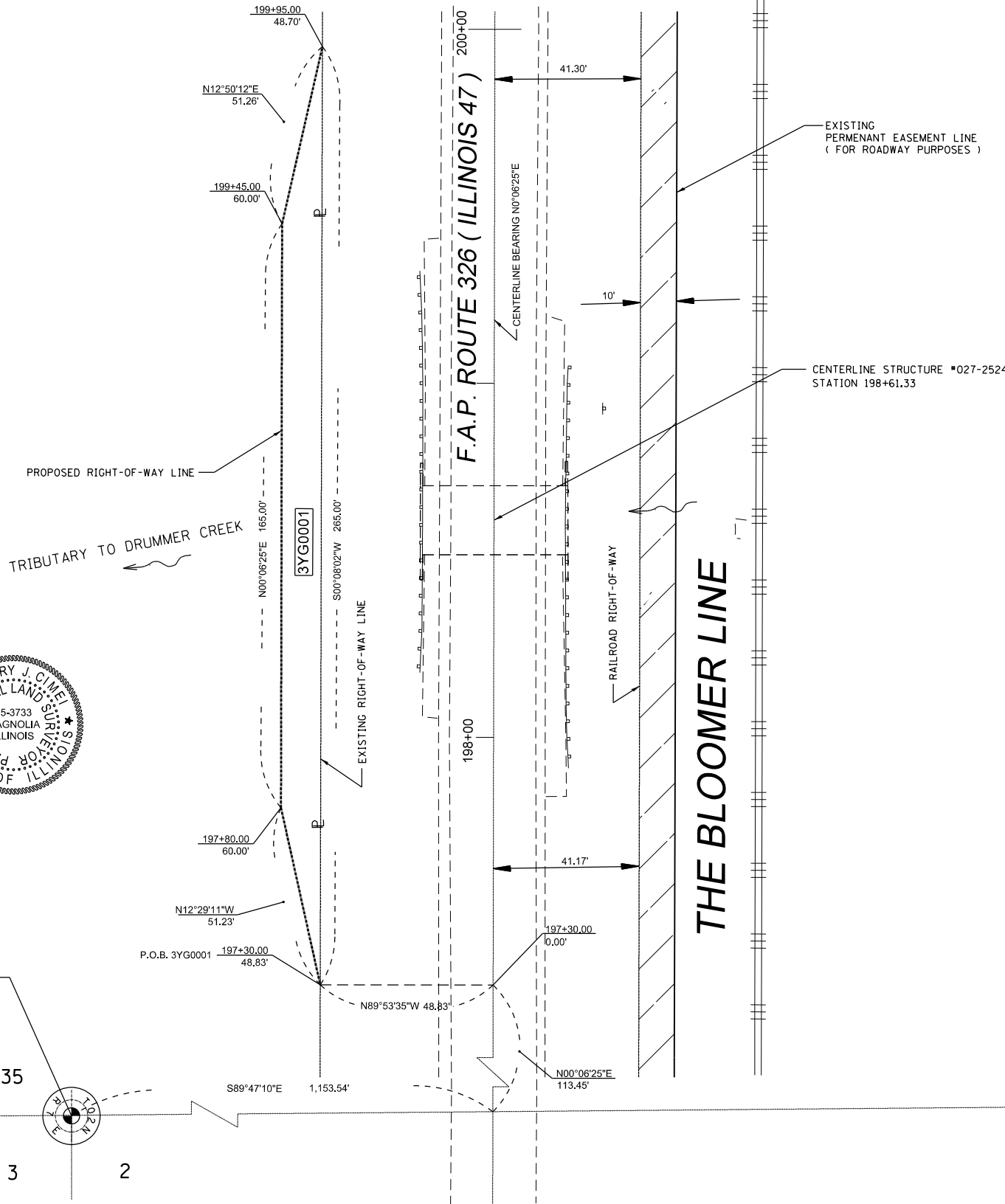
BY _____ DATED _____
JEFFERY J. CIMEI, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3733 (EXPIRES NOV, 2018)

N.W. COR. OF SEC. 2, T. 23 N., R. 7 E., 3RD P.M.
MONUMENT RECORD #81-169124
FOUND PIN WITH CAP
NORTHING: 1,390,987.20
EASTING: 969,918.17
P.O.C. 3YG0001

NOTE: GRID BEARINGS AND DISTANCES SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, (GRID) EAST ZONE, (NAD-83, 2011 ADJ.).
ALL AREAS ARE BASED ON GROUND MEASUREMENTS
COMBINED FACTOR = 0.99994461
TOTAL HOLDING AREA TAKEN FROM TAX ASSESSOR (NOT SURVEYED)



N. QUARTER COR. OF SEC. 2, T. 23 N., R. 7 E., 3RD P.M.
MONUMENT RECORD #91-189211
FOUND PIPE NEXT TO STONE PER MONUMENT RECORD
NORTHING: 1,390,977.33
EASTING: 972,562.26



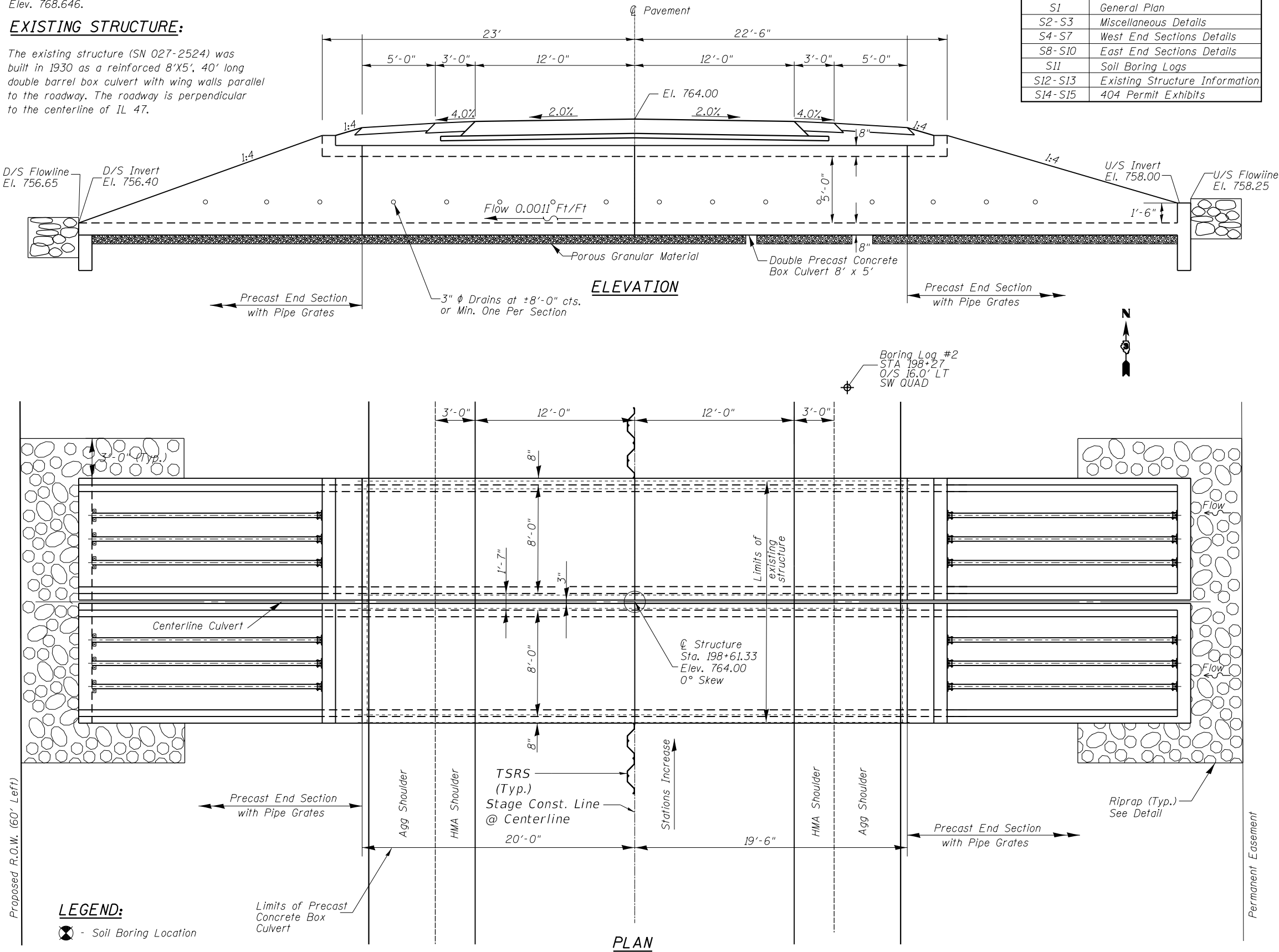
FILE NAME: p:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366034\Drawings\AD\Sheets\0366034-ROW.dgn	USER NAME: duncanbd	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS			F.A.P. RTE.: 326	SECTION: 126C-1	COUNTY: FORD	TOTAL SHEETS: 44	SHEET NO.: 21
PLOT SCALE: 40.0000' / in.	CHECKED: -	REVISED: -	REVISED: -		PROJECT: SHEET 1 OF 1 SHEETS	JOB NO. R93-001-17	CONTRACT NO. 66D34					
PLOT DATE: 10/20/2017	DATE: -	REVISED: -	REVISED: -		SCALE: 1"=20'	STA. 197+30.00 TO STA. 199+95.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

BENCH MARK:

Sta. 198+51.73, 20.76 ft. Right,
Chiseled "□" on SE Corner of Concrete Pavement
Elev. 768.646.

EXISTING STRUCTURE:

The existing structure (SN 027-2524) was built in 1930 as a reinforced 8'X5', 40' long double barrel box culvert with wing walls parallel to the roadway. The roadway is perpendicular to the centerline of IL 47.



LEGEND:
⊗ - Soil Boring Location

Proposed R.O.W. (60' Left)

Permanent Easement

INDEX OF SHEETS

SHEET NO.	TITLE
S1	General Plan
S2-S3	Miscellaneous Details
S4-S7	West End Sections Details
S8-S10	East End Sections Details
S11	Soil Boring Logs
S12-S13	Existing Structure Information
S14-S15	404 Permit Exhibits

LOADING HL-93

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

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 interims

DESIGN STRESSES

FIELD UNITS

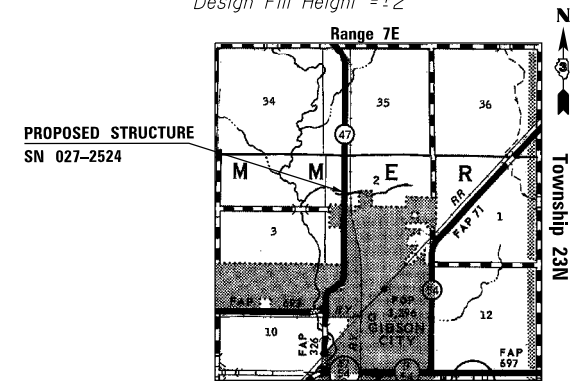
f'c = 3,500 psi
fy = 65,000 psi (Reinforcement)

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded wire fabric)

DESIGN FILL HEIGHT

Design Fill Height = ±2"



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq Yd	65
Filter Fabric	Sq Yd	65
Porous Granular Embankment	Cu Yd	146
Removal of Existing Structures	Each	1
Precast Concrete Box Culverts 8'x5'	Foot	79
Traversable Pipe Grate	Foot	339
*Membrane Waterproofing For Buried Structures	Sq Yd	104
Name Plates	Each	1
Structure Excavation	Cu Yd	125
**Box Culvert End Sections, Culvert No. 1	Each	4
Temporary Soil Retention System	Sq Ft	221

*See Detail
**Proposed East & West End Section Included. See Details.

STATION 198+61.33
BUILT 201 BY
STATE OF ILLINOIS
FAP RT. 326 SEC. 126C-1
LOADING HL93
STR. NO. 027-2554

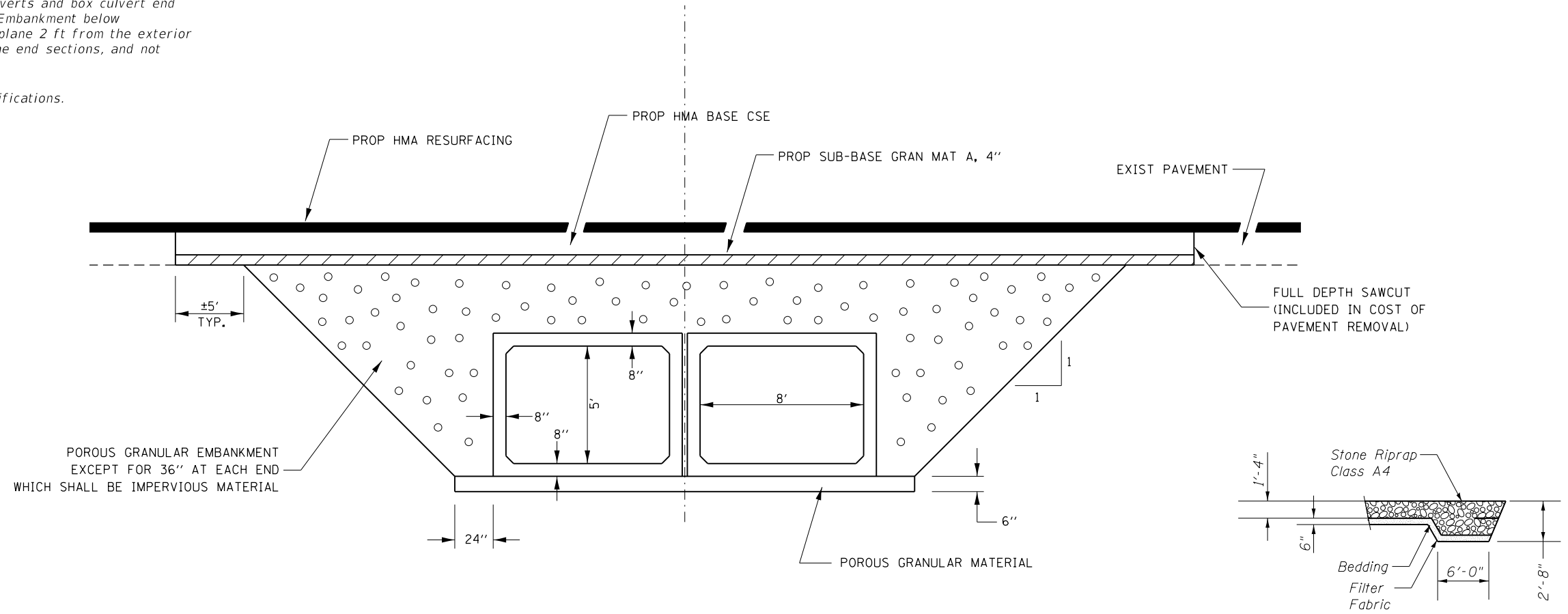
NAME PLATE

See Std. 515001

GENERAL PLAN & ELEVATION
US ROUTE 47 OVER DRUMMER CREEK
F.A.P. RT. 326 SEC. 126C-1
FORD COUNTY
STATION 198+61.33
STRUCTURE NO. 027-2554

GENERAL NOTES

1. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
2. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
3. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
4. Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard. Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.
5. Exposed edges shall be beveled 3/4".
6. For backfilling and embankment see standard specifications.



SECTION THRU PRECAST BARREL

Dimensions at right angle to ϕ of culvert (Looking North).
 3" nominal space shall be as per Standard Specifications - 2016, Section 540.06.
 Cost included with pay item for "Precast Concrete Box Culvert 8'x5'".

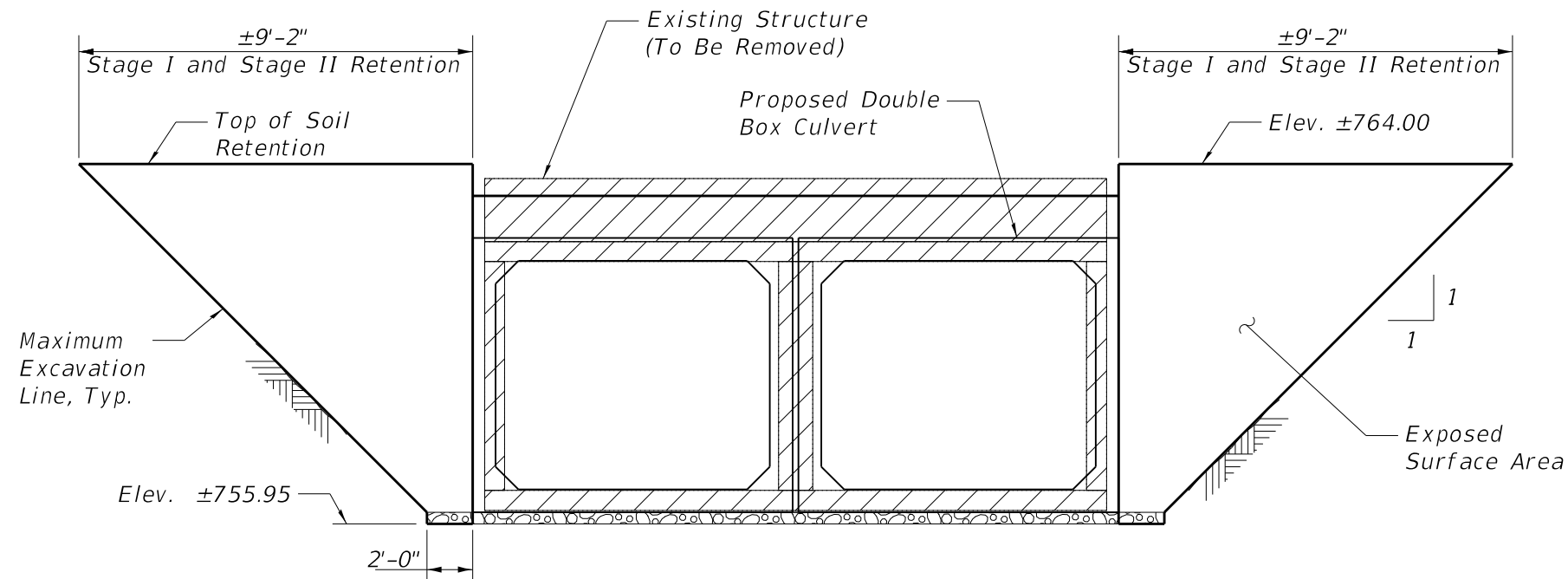
WATERWAY INFORMATION TABLE

Drainage Area = 0.85 sq. mi.
 Exist. Low Grade Elev. = 763.73 @ Sta. 200+00
 Prop. Low Grade Elev. = 763.73 @ Sta. 200+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	120	50	43	759.5	0.0	0.1	759.5	759.6
Base	50	197	55	48	759.8	0.0	0.3	759.8	760.0
Scour Check	100	236	57	50	759.9	0.0	0.3	759.9	760.2
Max. Calc.	200	269	58	52	760.0	0.0	0.3	760.0	760.3
Overtopping	500	315	60	54	760.1	0.2	0.4	760.3	760.5
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

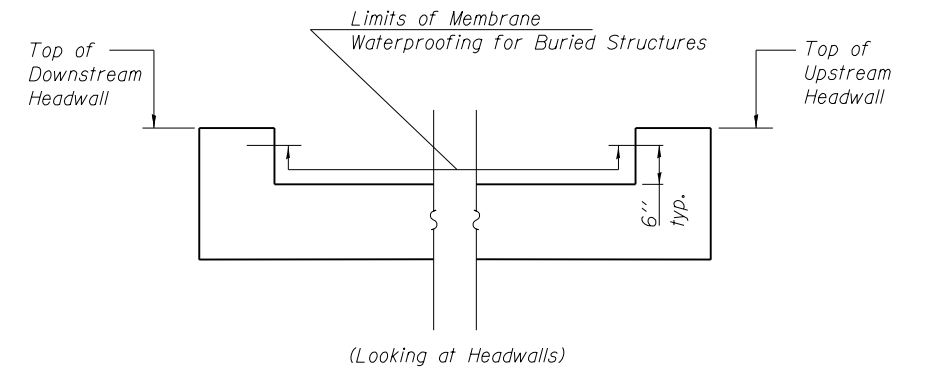
Existing 10-Year Velocity=2.6 ft/sec.
 Proposed 10-Year Velocity=2.9 ft/sec.

MISCELLANEOUS DETAILS
US ROUTE 47 OVER DRUMMER CREEK
F.A.P. RT. 326 SEC. 126C-1
FORD COUNTY
STATION 198+61.33
STRUCTURE NO. 027-2554

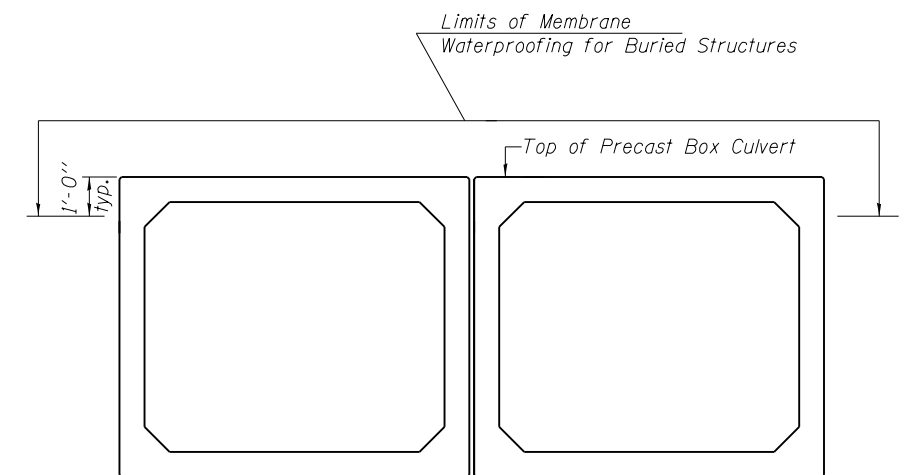


TEMPORARY SOIL RETENTION SYSTEM
 (Dimensions along Stage Construction Line)

Dimensions shown are approximate. The Contractor shall verify dimensions prior to the submittal of the design computations and shop drawings.



(Looking at Headwalls)



(Looking at Box Sections)

**MEMBRANE WATERPROOFING
 FOR BURIED STRUCTURES**

Note: Waterproofing Membrane for Culverts shall cover top of the top slab, top one foot of side walls, and 6 inches up inside face of the headwalls.

MISCELLANEOUS DETAILS
US ROUTE 47 OVER DRUMMER CREEK
F.A.P. RT. 326 SEC. 126C-1
FORD COUNTY
STATION 198+61.33
STRUCTURE NO. 027-2554

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT DETAILS SN 027-2554	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366034\Drawings\0366034-shd-boxculvert.dgn	DESIGNED -	REVISED -	326			126C-1	FORD	44	24	
PLOT SCALE = 8.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 66D34							
PLOT DATE = 10/20/2017	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. 3 OF 15 SHEETS	STA.	TO STA.			

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications.

All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

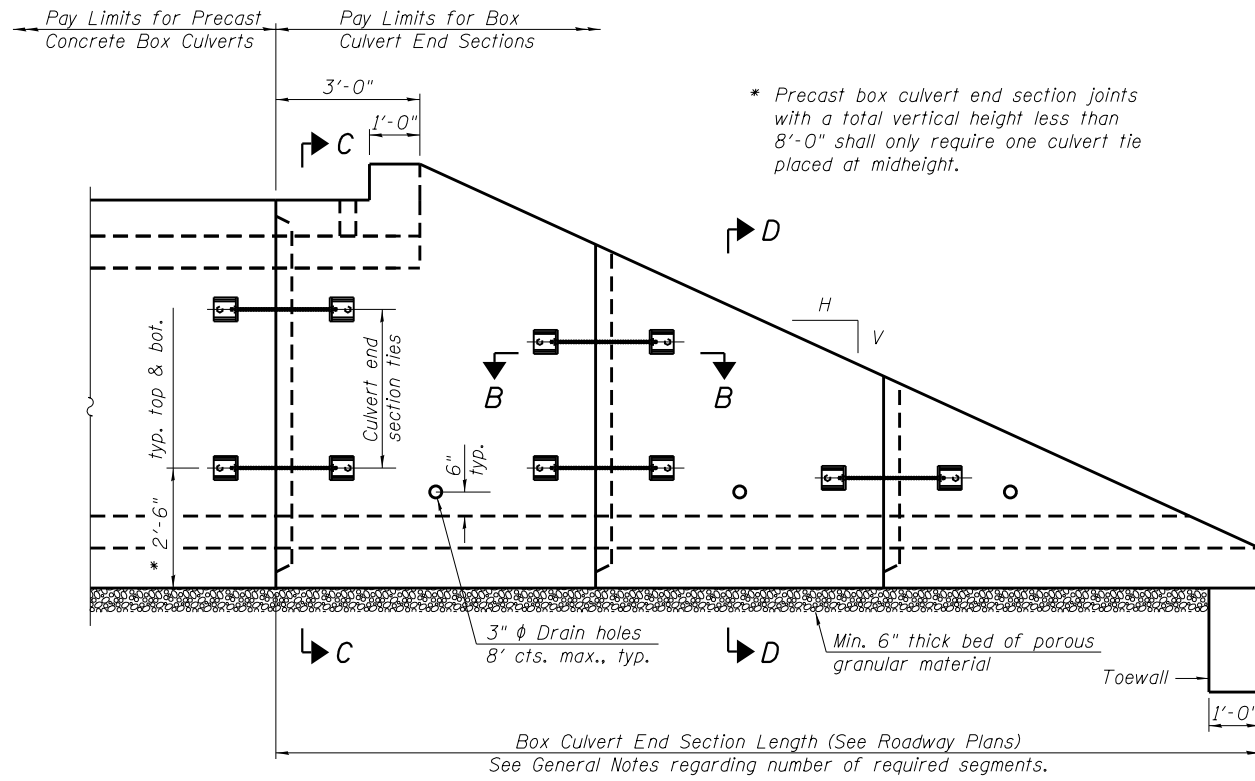
Reinforcement bars designated (E) shall be epoxy coated. Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd.

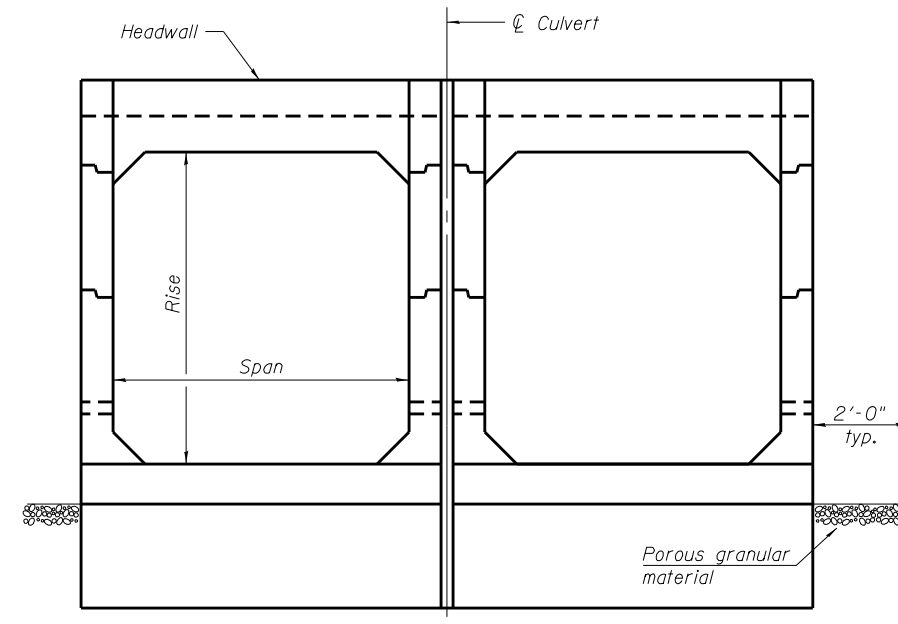
For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.

The 3" nominal space between adjacent end sections shall be filled with Class SI concrete in accordance with Article 540.06 of the Standard Specifications. Cost included with Box Culvert End Sections.

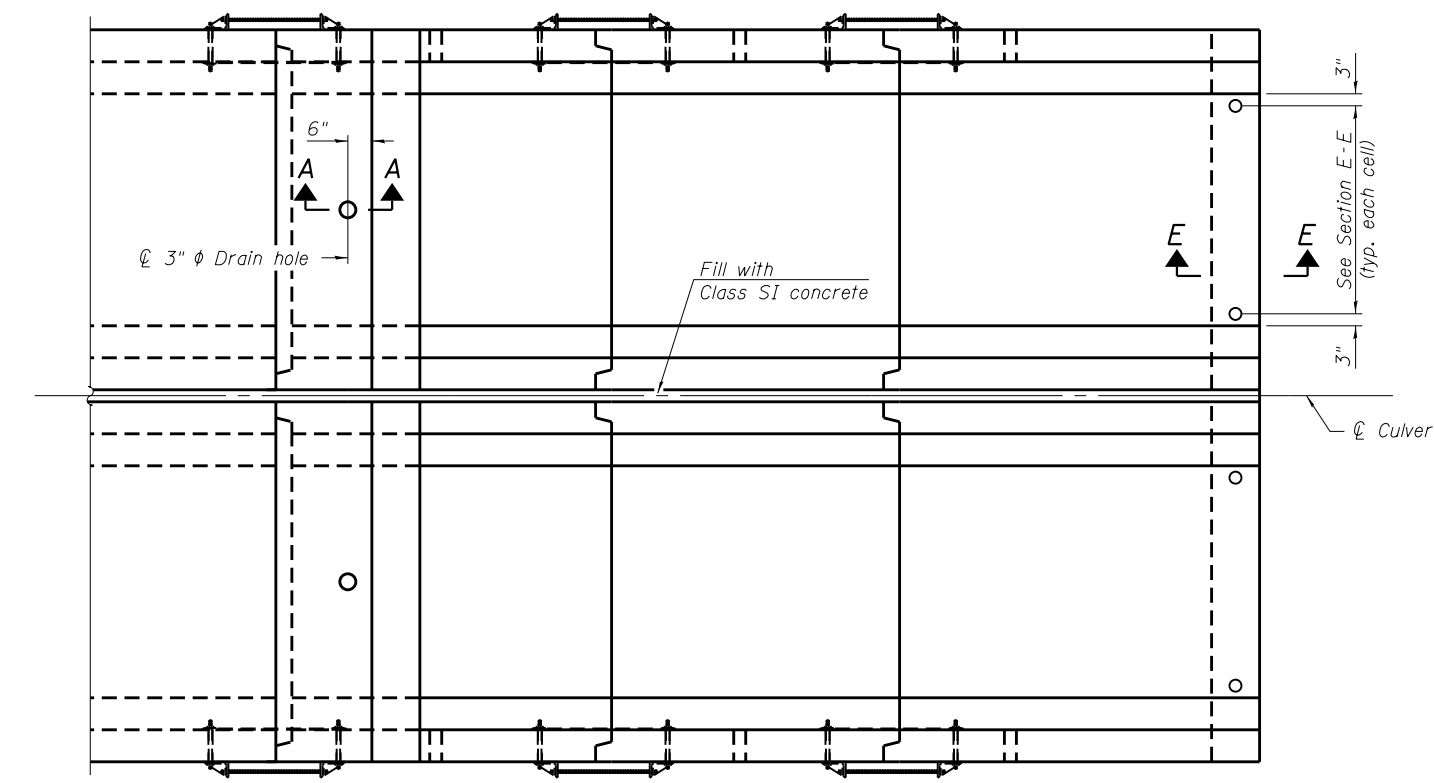
Details for double cell box culvert shown. Details for other multi-cell box culverts similar.



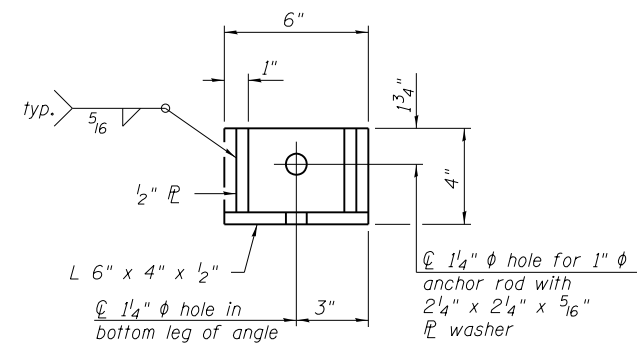
ELEVATION



END VIEW



PLAN



RESTRAINT ANGLE DETAIL

12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

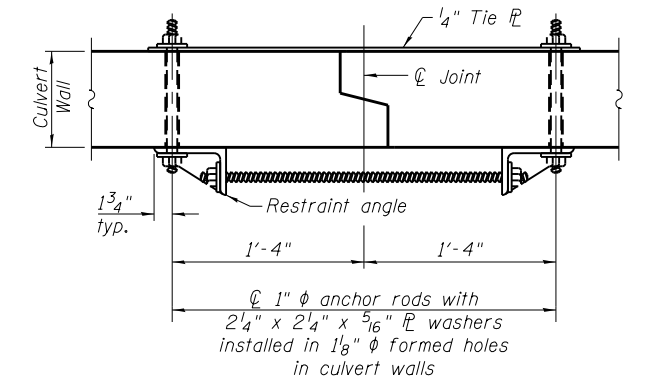
Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

3" ϕ PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed with formwork)

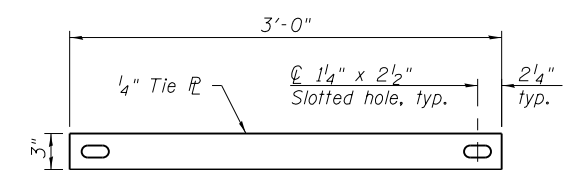
SECTION A-A

(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 the associated work.)



SECTION B-B

(Showing end section tie details)



TIE PLATE DETAIL

MCB-TES-1

11-5-13

(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISED
		CHECKED -	REVISED
		DRAWN -	REVISED
		CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-CELL PRECAST BOX CULVERT TAPERED END SECTIONS
WEST END SECTIONS**

SHEET NO. 4 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	25
CONTRACT NO. 66D34				

ILLINOIS FED. AID PROJECT

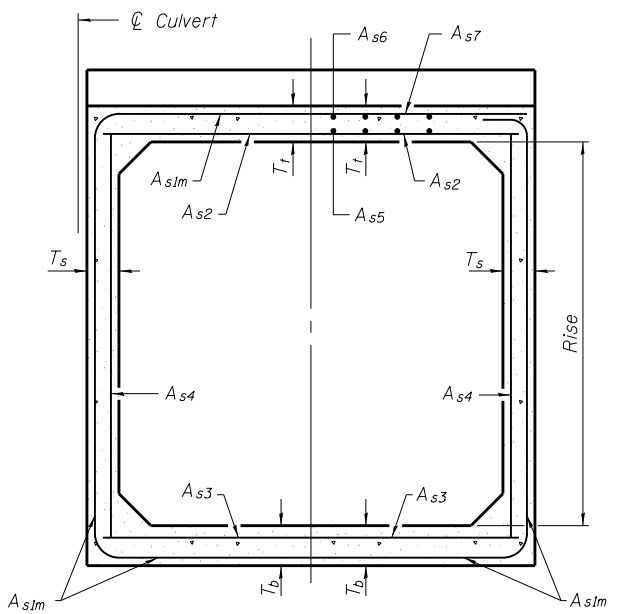
		As_{1m} REINFORCEMENT										
		(in. ² /ft)										
T _s (in.)	Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17										
5	0.26	0.21	0.18									
6	0.22	0.26	0.23	0.22								
7	0.25	0.33	0.59	0.27	0.28							
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40					
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48				
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56			
11	0.52	0.45	0.54		0.46		0.41		0.50	0.65		
12	0.55	0.49	0.58		0.50		0.45		0.46		0.75	

(As_{1m} reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

Notes:
 Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.
 The size and spacing of the v₂(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As_{1m}). v₂(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.
 Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.
 Sections C-C, D-D, and Headwall Elevation are symmetric about ϕ culvert through 180° rotation.

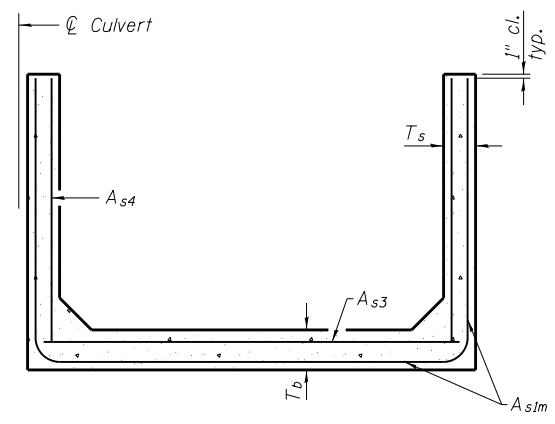
l₁ DIMENSION

- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"

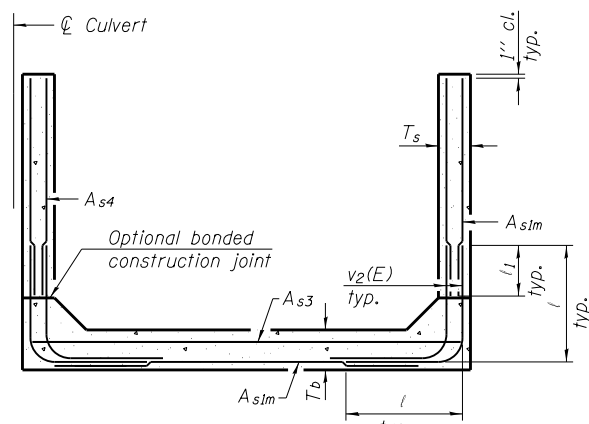


(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)

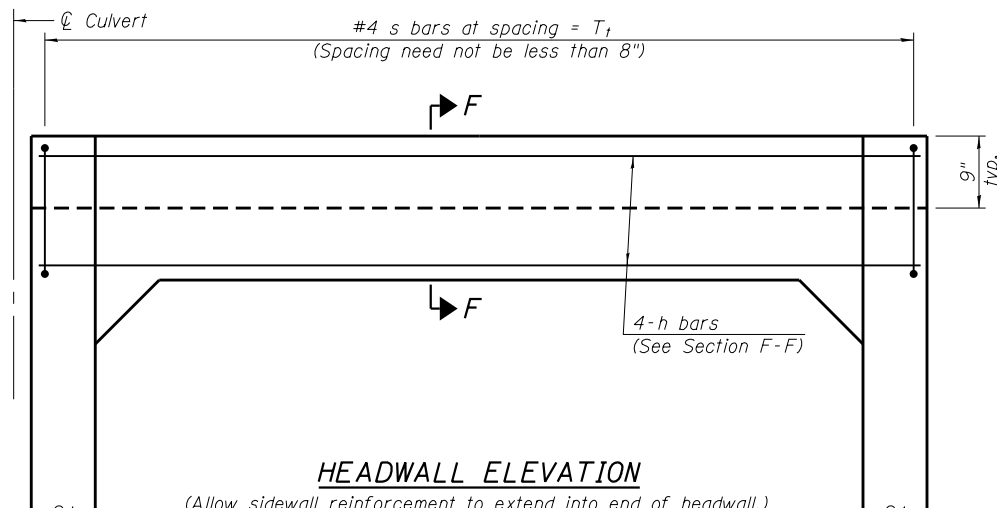
SECTION C-C



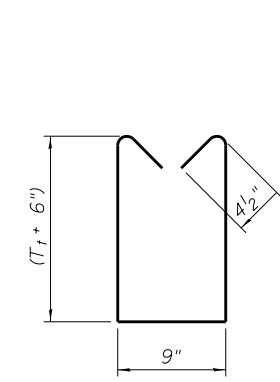
SECTION D-D



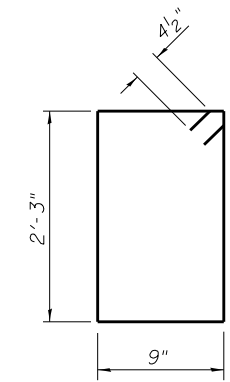
ALTERNATE SECTION D-D



HEADWALL ELEVATION



BAR s



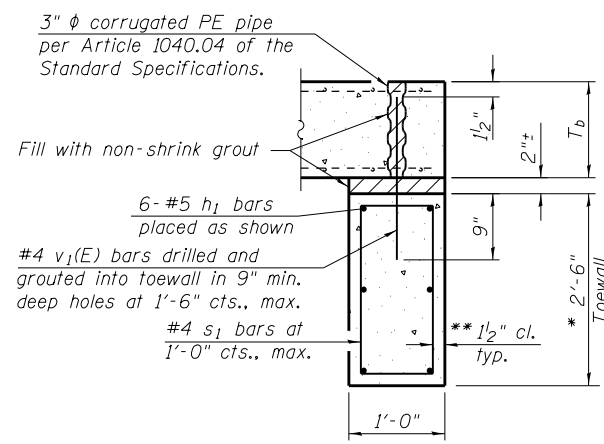
BAR s1

TOEWALL CONSTRUCTION SEQUENCE

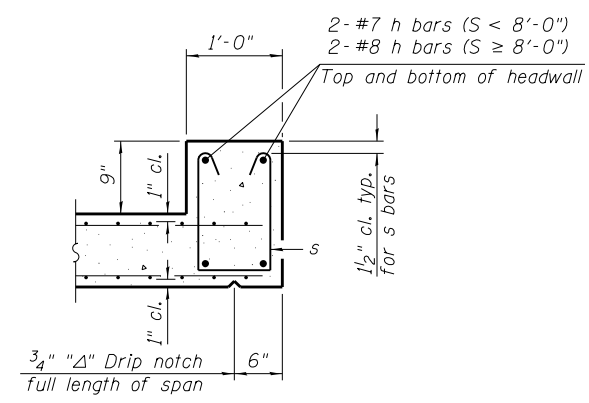
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION E-E



SECTION F-F

MCB-TES-2

11-5-13

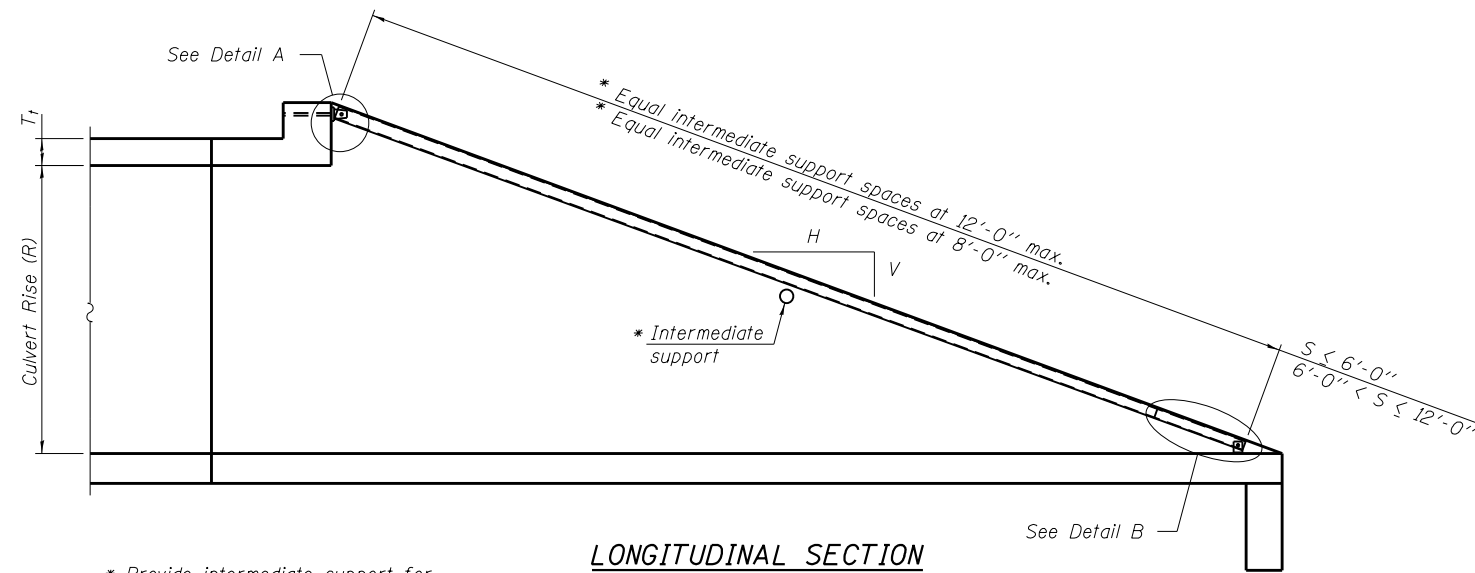
(Sheet 2 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISD	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-CELL PRECAST BOX CULVERT TAPERED END SECTIONS WEST END SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISD			326	126C-1	FORD	44	26	
		PLOT SCALE =	REVISD			CONTRACT NO. 66D34					
		PLOT DATE =	REVISD			ILLINOIS FED. AID PROJECT					

GENERAL NOTES

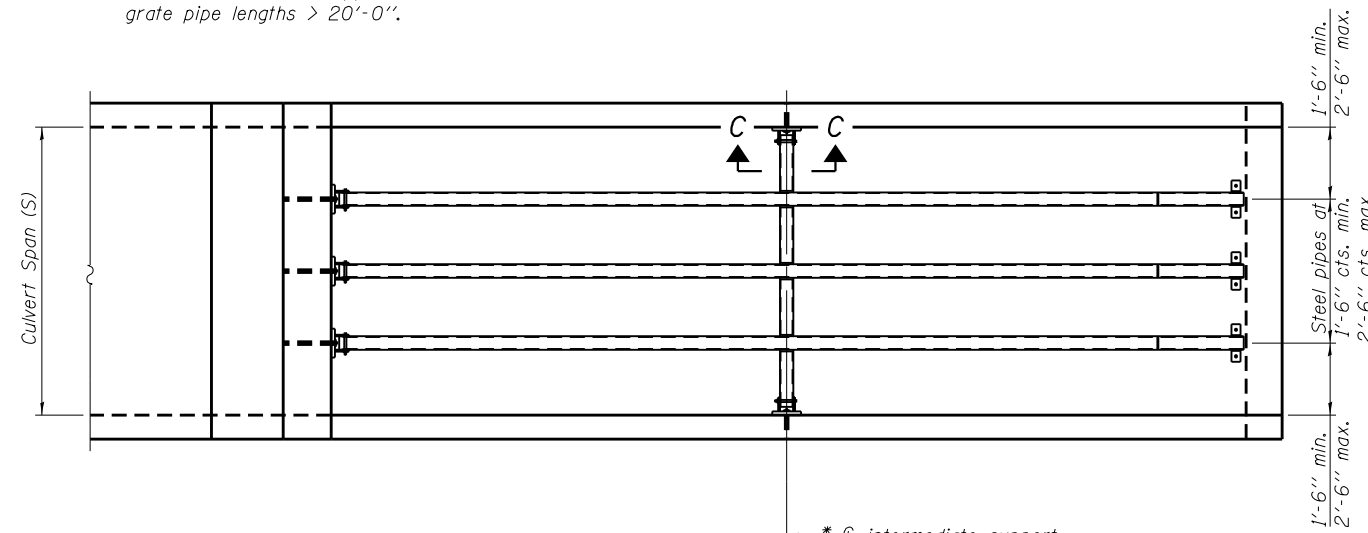
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.
 This standard shall only be used on concrete end sections not skewed more than ±15 degrees with roadway.

The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional 1/3 turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.

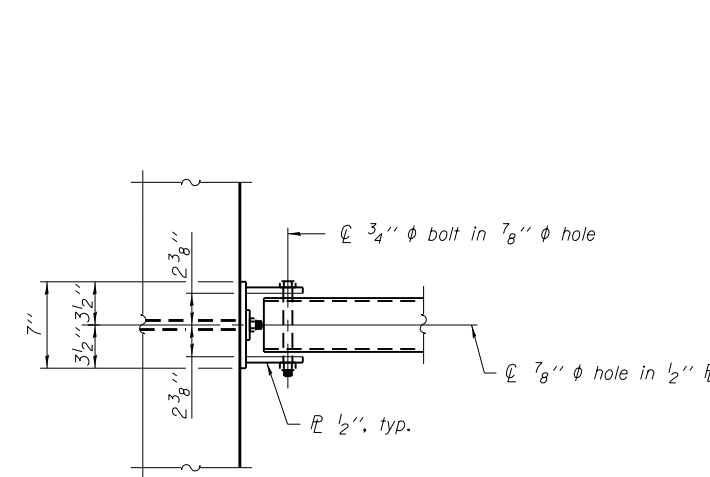


LONGITUDINAL SECTION

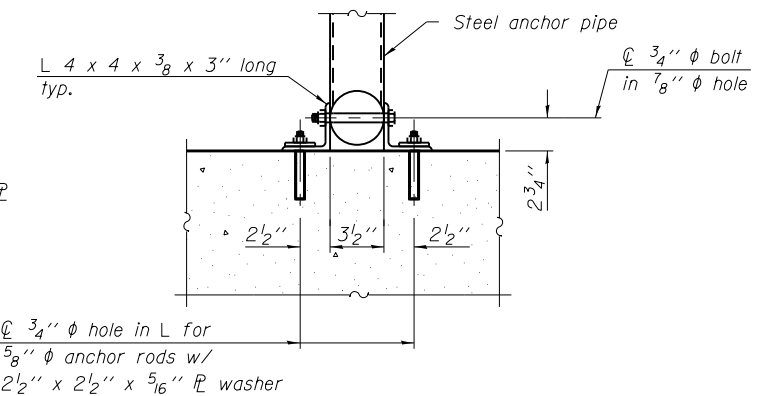
* Provide intermediate support for grate pipe lengths > 20'-0".



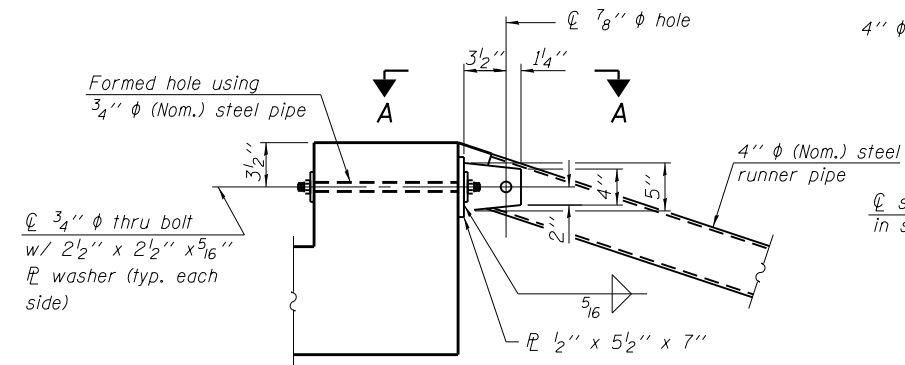
PLAN VIEW



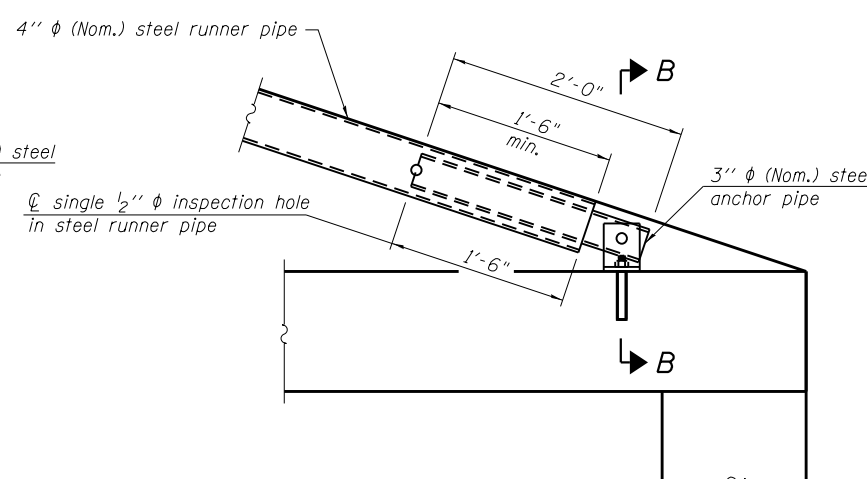
VIEW A-A



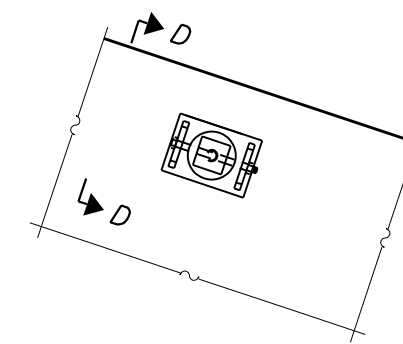
SECTION B-B



DETAIL A

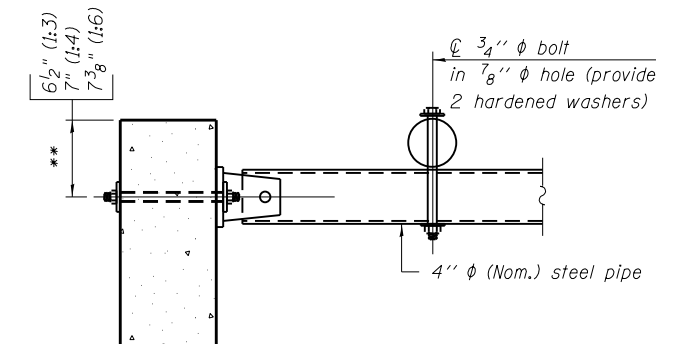


DETAIL B



VIEW C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

TPGBC-ZS-1

8-21-13

FILE NAME =	USER NAME =	DESIGNED -	REVISED
		CHECKED -	REVISED
		DRAWN -	REVISED
		CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAVERSABLE PIPE GRATE FOR BOX CULVERTS
WEST END SECTIONS**

SHEET NO. 6 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	27
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

(Sheet 1 of 2)

PIPE-GRATE SCHEDULE FOR BOX CULVERT END SECTIONS

Precast Box Culvert Dimensions			Slope of End Section								
			1:3			1:4			1:6		
S (ft)	R (ft)	T ₁ (in)	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
4	2	7.5	1 @ 8'-10"	N/A	8'-10"	1 @ 11'-7"	N/A	11'-7"	1 @ 17'-2"	N/A	17'-2"
4	2	5	1 @ 8'-2"	N/A	8'-2"	1 @ 10'-8"	N/A	10'-8"	1 @ 15'-11"	N/A	15'-11"
4	3	7.5	1 @ 12'-0"	N/A	12'-0"	1 @ 15'-8"	N/A	15'-8"	1 @ 23'-3"	1 @ 3'-7"	26'-10"
4	3	5	1 @ 11'-4"	N/A	11'-4"	1 @ 14'-10"	N/A	14'-10"	1 @ 22'-0"	1 @ 3'-7"	25'-7"
4	4	7.5	1 @ 15'-2"	N/A	15'-2"	1 @ 19'-10"	1 @ 3'-7"	23'-5"	1 @ 29'-4"	2 @ 3'-7"	36'-6"
4	4	5	1 @ 14'-6"	N/A	14'-6"	1 @ 18'-11"	N/A	18'-11"	1 @ 28'-1"	2 @ 3'-7"	35'-3"
5	2	8	1 @ 8'-11"	N/A	8'-11"	1 @ 11'-9"	N/A	11'-9"	1 @ 17'-5"	N/A	17'-5"
5	2	6	1 @ 8'-5"	N/A	8'-5"	1 @ 11'-1"	N/A	11'-1"	1 @ 16'-5"	N/A	16'-5"
5	3	8	1 @ 12'-1"	N/A	12'-1"	1 @ 15'-10"	N/A	15'-10"	1 @ 23'-6"	1 @ 4'-7"	28'-1"
5	3	6	1 @ 11'-7"	N/A	11'-7"	1 @ 15'-2"	N/A	15'-2"	1 @ 22'-6"	1 @ 4'-7"	27'-1"
5	4	8	1 @ 15'-3"	N/A	15'-3"	1 @ 20'-0"	1 @ 4'-7"	24'-7"	1 @ 29'-7"	2 @ 4'-7"	38'-9"
5	4	6	1 @ 14'-9"	N/A	14'-9"	1 @ 19'-3"	N/A	19'-3"	1 @ 28'-7"	2 @ 4'-7"	37'-9"
5	5	8	1 @ 18'-5"	N/A	18'-5"	1 @ 24'-1"	2 @ 4'-7"	33'-3"	1 @ 35'-8"	3 @ 4'-7"	49'-5"
5	5	6	1 @ 17'-11"	N/A	17'-11"	1 @ 23'-5"	1 @ 4'-7"	28'-0"	1 @ 34'-8"	2 @ 4'-7"	43'-10"
6	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
6	2	7	2 @ 8'-8"	N/A	17'-4"	2 @ 11'-5"	N/A	22'-10"	2 @ 16'-11"	N/A	33'-10"
6	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	1 @ 5'-7"	52'-7"
6	3	7	2 @ 11'-10"	N/A	23'-8"	2 @ 15'-6"	N/A	31'-0"	2 @ 23'-0"	1 @ 5'-7"	51'-7"
6	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	1 @ 5'-7"	45'-7"	2 @ 29'-7"	2 @ 5'-7"	70'-4"
6	4	7	2 @ 15'-0"	N/A	30'-0"	2 @ 19'-8"	1 @ 5'-7"	44'-11"	2 @ 29'-1"	2 @ 5'-7"	69'-4"
6	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	2 @ 5'-7"	59'-4"	2 @ 35'-8"	3 @ 5'-7"	88'-1"
6	5	7	2 @ 18'-2"	N/A	36'-4"	2 @ 23'-9"	2 @ 5'-7"	58'-8"	2 @ 35'-2"	2 @ 5'-7"	81'-6"
6	6	8	2 @ 21'-7"	1 @ 5'-7"	48'-9"	2 @ 28'-3"	2 @ 5'-7"	67'-8"	2 @ 41'-9"	3 @ 5'-7"	100'-3"
6	6	7	2 @ 21'-4"	1 @ 5'-7"	48'-3"	2 @ 27'-11"	2 @ 5'-7"	67'-0"	2 @ 41'-3"	3 @ 5'-7"	99'-3"
7	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
7	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	2 @ 6'-7"	60'-2"
7	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	2 @ 6'-7"	53'-2"	2 @ 29'-7"	3 @ 6'-7"	78'-11"
7	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	3 @ 6'-7"	67'-11"	2 @ 35'-8"	4 @ 6'-7"	97'-8"
7	6	8	2 @ 21'-7"	2 @ 6'-7"	56'-4"	2 @ 28'-3"	3 @ 6'-7"	76'-3"	2 @ 41'-9"	5 @ 6'-7"	116'-5"
7	7	8	2 @ 24'-9"	3 @ 6'-7"	69'-3"	2 @ 32'-4"	4 @ 6'-7"	91'-0"	2 @ 47'-10"	6 @ 6'-7"	135'-2"
8	2	8	3 @ 8'-11"	N/A	26'-9"	3 @ 11'-9"	N/A	35'-3"	3 @ 17'-5"	N/A	52'-3"
8	3	8	3 @ 12'-1"	N/A	36'-3"	3 @ 15'-10"	N/A	47'-6"	3 @ 23'-6"	2 @ 7'-7"	85'-8"
8	4	8	3 @ 15'-3"	N/A	45'-9"	3 @ 20'-0"	2 @ 7'-7"	75'-2"	3 @ 29'-7"	3 @ 7'-7"	111'-6"
8	5	8	3 @ 18'-5"	N/A	55'-3"	3 @ 24'-1"	3 @ 7'-7"	95'-0"	3 @ 35'-8"	4 @ 7'-7"	137'-4"
8	6	8	3 @ 21'-7"	2 @ 7'-7"	79'-11"	3 @ 28'-3"	3 @ 7'-7"	107'-6"	3 @ 41'-9"	5 @ 7'-7"	163'-2"
8	7	8	3 @ 24'-9"	3 @ 7'-7"	97'-0"	3 @ 32'-4"	4 @ 7'-7"	127'-4"	3 @ 47'-10"	6 @ 7'-7"	189'-0"
8	8	8	3 @ 27'-11"	3 @ 7'-7"	106'-6"	3 @ 36'-6"	4 @ 7'-7"	139'-10"	3 @ 53'-11"	6 @ 7'-7"	207'-3"
9	2	9	3 @ 9'-3"	N/A	27'-9"	3 @ 12'-1"	N/A	36'-3"	3 @ 17'-11"	N/A	53'-9"
9	3	9	3 @ 12'-4"	N/A	37'-0"	3 @ 16'-2"	N/A	48'-6"	3 @ 24'-0"	3 @ 8'-7"	97'-9"
9	4	9	3 @ 15'-6"	N/A	46'-6"	3 @ 20'-4"	2 @ 8'-7"	78'-2"	3 @ 30'-1"	3 @ 8'-7"	116'-0"
9	5	9	3 @ 18'-8"	N/A	56'-0"	3 @ 24'-5"	3 @ 8'-7"	99'-0"	3 @ 36'-2"	4 @ 8'-7"	142'-10"
9	6	9	3 @ 21'-10"	2 @ 8'-7"	82'-8"	3 @ 28'-7"	3 @ 8'-7"	111'-6"	3 @ 42'-3"	5 @ 8'-7"	169'-8"
9	7	9	3 @ 25'-0"	3 @ 8'-7"	100'-9"	3 @ 32'-8"	4 @ 8'-7"	132'-4"	3 @ 48'-4"	6 @ 8'-7"	196'-6"
9	8	9	3 @ 28'-2"	3 @ 8'-7"	110'-3"	3 @ 36'-10"	4 @ 8'-7"	144'-10"	3 @ 54'-5"	6 @ 8'-7"	214'-9"
9	9	9	3 @ 31'-4"	3 @ 8'-7"	119'-9"	3 @ 40'-11"	5 @ 8'-7"	165'-8"	3 @ 60'-6"	7 @ 8'-7"	241'-7"
10	2	10	3 @ 9'-6"	N/A	28'-6"	3 @ 12'-5"	N/A	37'-3"	3 @ 18'-5"	N/A	55'-3"
10	3	10	3 @ 12'-8"	N/A	38'-0"	3 @ 16'-6"	N/A	49'-6"	3 @ 24'-6"	3 @ 9'-7"	102'-3"
10	4	10	3 @ 15'-10"	N/A	47'-6"	3 @ 20'-8"	2 @ 9'-7"	81'-2"	3 @ 30'-7"	3 @ 9'-7"	120'-6"
10	5	10	3 @ 19'-0"	N/A	57'-0"	3 @ 24'-9"	3 @ 9'-7"	103'-0"	3 @ 36'-8"	4 @ 9'-7"	148'-4"
10	6	10	3 @ 22'-1"	2 @ 9'-7"	85'-5"	3 @ 28'-11"	3 @ 9'-7"	115'-6"	3 @ 42'-9"	5 @ 9'-7"	176'-2"
10	7	10	3 @ 25'-3"	3 @ 9'-7"	104'-6"	3 @ 33'-0"	4 @ 9'-7"	137'-4"	3 @ 48'-10"	6 @ 9'-7"	204'-0"
10	8	10	3 @ 28'-5"	3 @ 9'-7"	114'-0"	3 @ 37'-2"	4 @ 9'-7"	149'-10"	3 @ 54'-11"	6 @ 9'-7"	222'-3"
10	9	10	3 @ 31'-7"	4 @ 9'-7"	133'-1"	3 @ 41'-3"	5 @ 9'-7"	171'-8"	3 @ 61'-0"	7 @ 9'-7"	250'-1"
10	10	10	3 @ 34'-9"	4 @ 9'-7"	142'-7"	3 @ 45'-5"	5 @ 9'-7"	184'-2"	3 @ 67'-1"	8 @ 9'-7"	277'-11"
11	2	11	4 @ 9'-9"	N/A	39'-0"	4 @ 12'-9"	N/A	51'-0"	4 @ 18'-11"	N/A	75'-8"
11	3	11	4 @ 12'-11"	N/A	51'-8"	4 @ 16'-11"	N/A	67'-8"	4 @ 25'-0"	3 @ 10'-7"	131'-9"
11	4	11	4 @ 16'-1"	N/A	64'-4"	4 @ 21'-0"	2 @ 10'-7"	105'-2"	4 @ 31'-1"	3 @ 10'-7"	156'-1"
11	6	11	4 @ 22'-5"	2 @ 10'-7"	110'-10"	4 @ 29'-3"	3 @ 10'-7"	148'-9"	4 @ 43'-3"	5 @ 10'-7"	225'-11"
11	8	11	4 @ 28'-9"	3 @ 10'-7"	146'-9"	4 @ 37'-6"	4 @ 10'-7"	192'-4"	4 @ 55'-5"	6 @ 10'-7"	285'-2"
11	10	11	4 @ 35'-0"	4 @ 10'-7"	182'-4"	4 @ 45'-9"	5 @ 10'-7"	235'-11"	4 @ 67'-7"	8 @ 10'-7"	355'-0"
11	11	11	4 @ 38'-2"	4 @ 10'-7"	195'-0"	4 @ 49'-10"	6 @ 10'-7"	262'-10"	4 @ 73'-8"	9 @ 10'-7"	389'-11"
12	2	12	4 @ 10'-0"	N/A	40'-0"	4 @ 13'-1"	N/A	52'-4"	4 @ 19'-5"	N/A	77'-8"
12	3	12	4 @ 13'-2"	N/A	52'-8"	4 @ 17'-3"	N/A	69'-0"	4 @ 25'-6"	3 @ 11'-7"	136'-9"
12	4	12	4 @ 16'-4"	N/A	65'-4"	4 @ 21'-4"	2 @ 11'-7"	108'-6"	4 @ 31'-7"	4 @ 11'-7"	172'-8"
12	6	12	4 @ 22'-8"	2 @ 11'-7"	113'-10"	4 @ 29'-7"	3 @ 11'-7"	153'-1"	4 @ 43'-9"	5 @ 11'-7"	232'-11"
12	8	12	4 @ 29'-0"	3 @ 11'-7"	150'-9"	4 @ 37'-10"	4 @ 11'-7"	197'-8"	4 @ 55'-11"	7 @ 11'-7"	304'-9"
12	10	12	4 @ 35'-4"	4 @ 11'-7"	187'-8"	4 @ 46'-1"	5 @ 11'-7"	242'-3"	4 @ 68'-1"	8 @ 11'-7"	365'-0"
12	12	12	4 @ 41'-8"	5 @ 11'-7"	224'-7"	4 @ 54'-4"	6 @ 11'-7"	286'-10"	4 @ 80'-3"	10 @ 11'-7"	436'-10"

TPGBC-ZS-2

8-21-13

FILE NAME D366034-sht-boxculvert2524.dgn	DESIGNED -	REVISD -
	CHECKED -	REVISD -
PLOT DATE 10/20/2017	DRAWN -	REVISD -
	CHECKED -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAVERSABLE PIPE GRATE FOR BOX CULVERTS
WEST END SECTIONS**

SHEET NO. 7 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	28
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

(Sheet 2 of 2)

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).
1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications.

All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

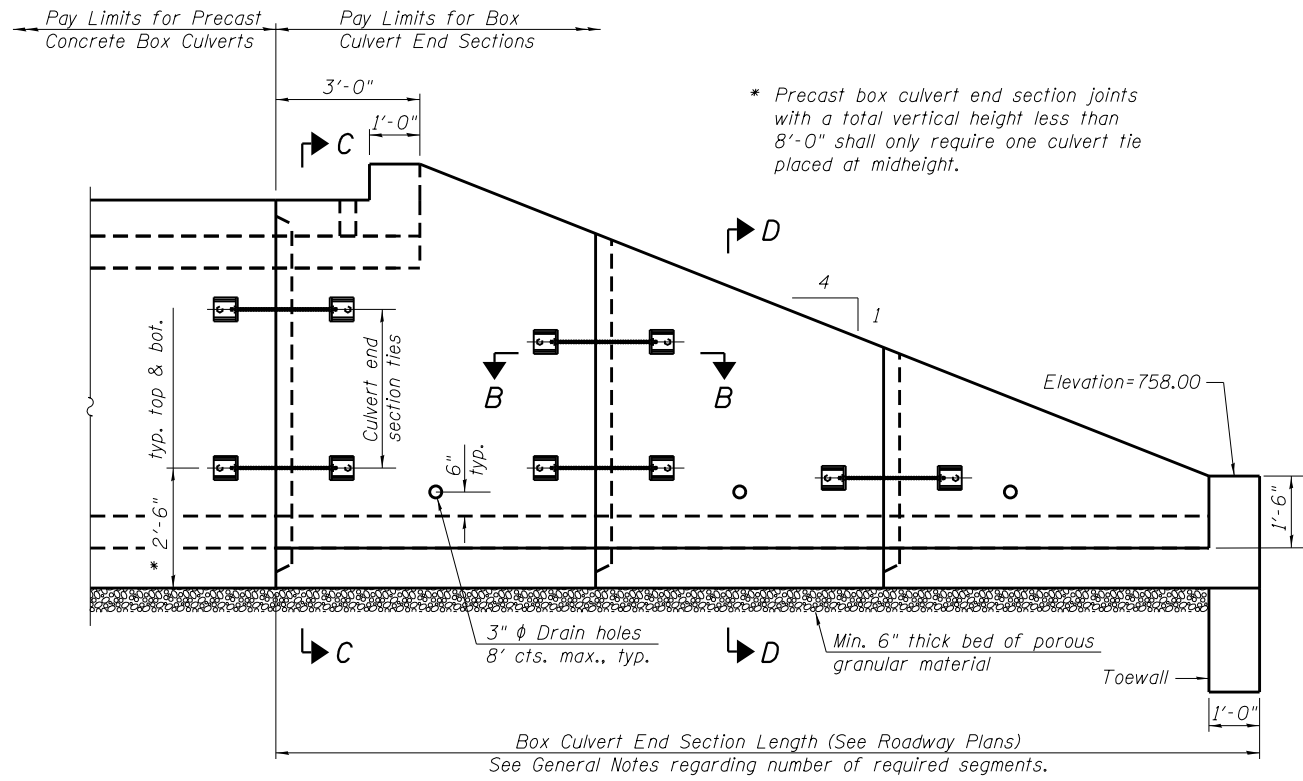
Reinforcement bars designated (E) shall be epoxy coated. Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd.

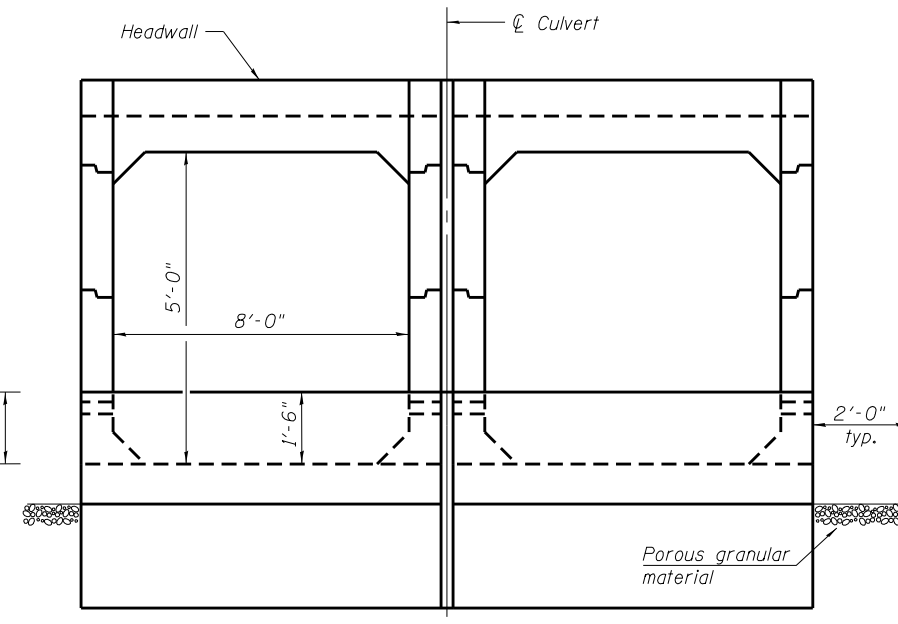
For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.

The 3" nominal space between adjacent end sections shall be filled with Class SI concrete in accordance with Article 540.06 of the Standard Specifications. Cost included with Box Culvert End Sections.

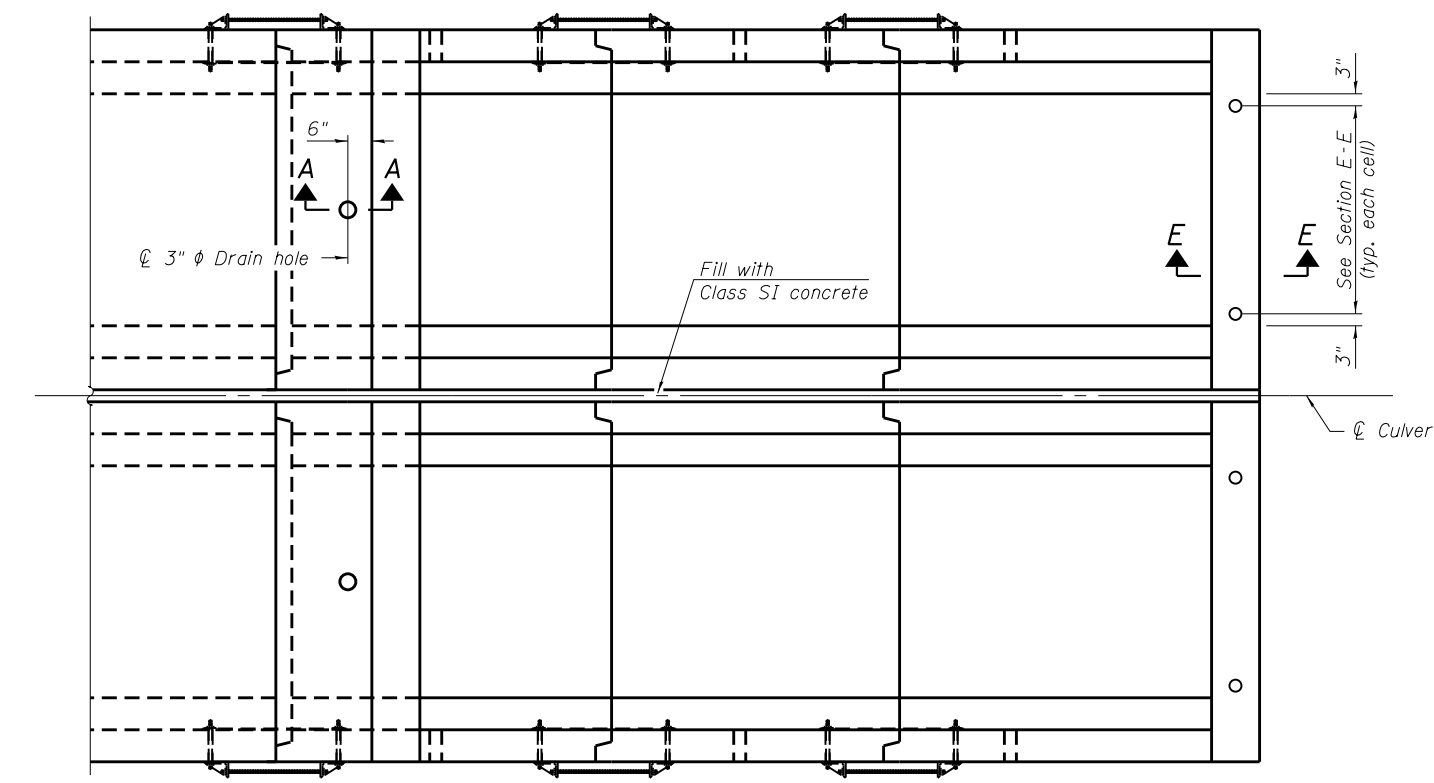
Details for double cell box culvert shown. Details for other multi-cell box culverts similar.



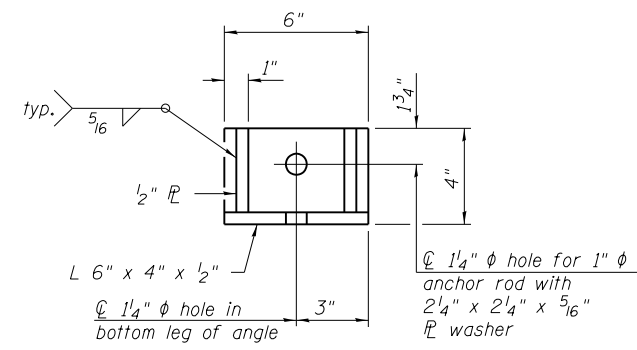
ELEVATION



END VIEW



PLAN



RESTRAINT ANGLE DETAIL

12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

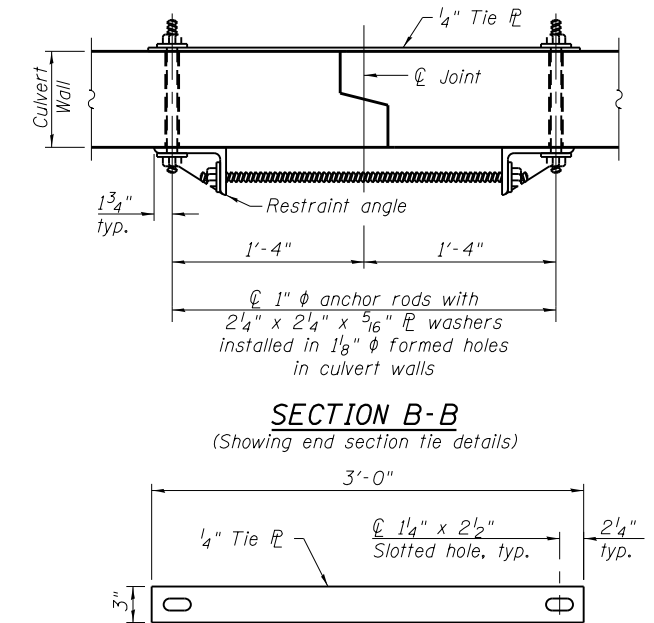
Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

3" ϕ PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed with formwork)

SECTION A-A

(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 the associated work.)



SECTION B-B

(Showing end section tie details)

TIE PLATE DETAIL

MCB-TES-1

FILE NAME =	USER NAME =	DESIGNED -	REVISED
		CHECKED -	REVISED
		DRAWN -	REVISED
		CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT END SECTIONS, CULVERT NO. 1
EAST END SECTIONS**

SHEET NO. 8 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	29
CONTRACT NO. 66D34				

ILLINOIS FED. AID PROJECT

(Sheet 1 of 2)

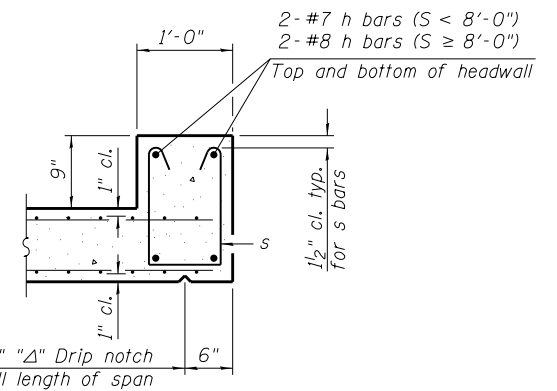
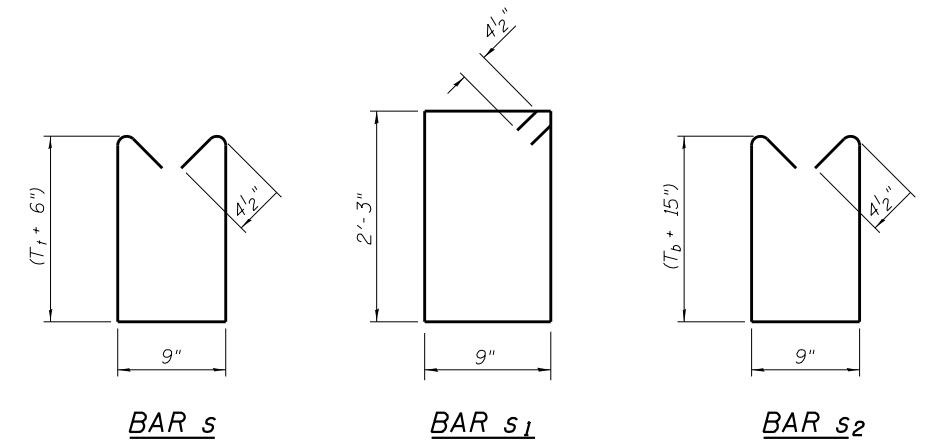
		As_{1m} REINFORCEMENT										
		(in. ² /ft)										
T _s (in.)	Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17										
5	0.26	0.21	0.18									
6	0.22	0.26	0.23	0.22								
7	0.25	0.33	0.59	0.27	0.28							
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40					
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48				
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56			
11	0.52	0.45	0.54		0.46		0.41		0.50	0.65		
12	0.55	0.49	0.58		0.50		0.45		0.46		0.75	

(As_{1m} reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

Notes:
 Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.
 The size and spacing of the v₂(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As_{1m}). v₂(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.
 Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.
 Sections C-C, D-D, and Headwall Elevation are symmetric about ϕ culvert through 180° rotation.

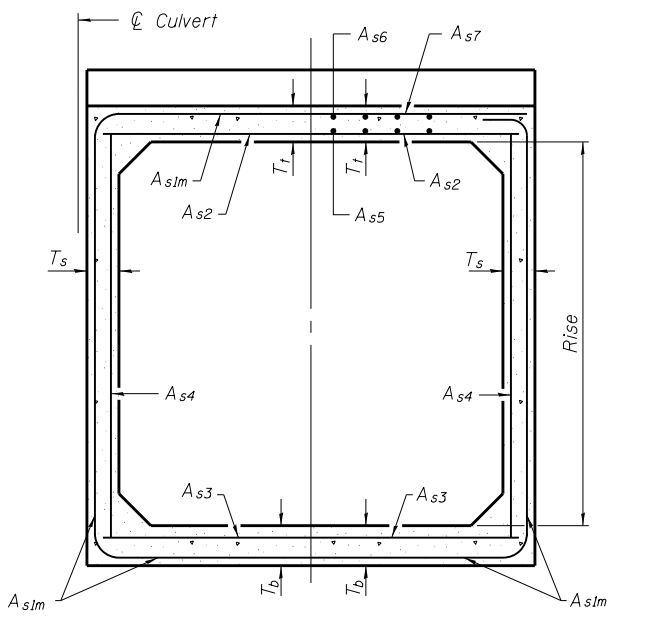
1 DIMENSION

- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"



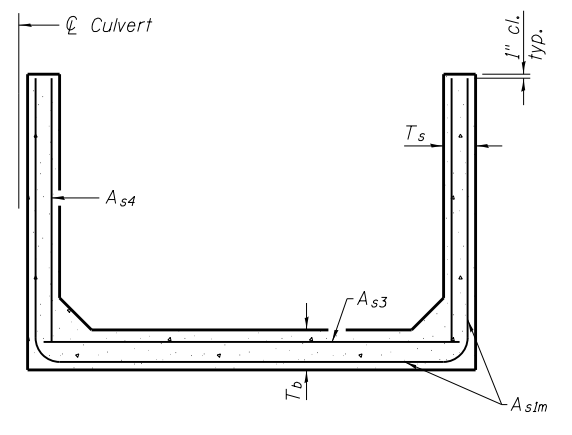
SECTION F-F

(Sheet 2 of 2)

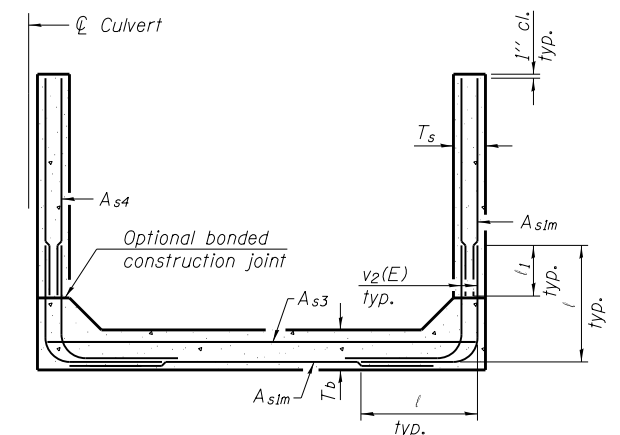


SECTION C-C

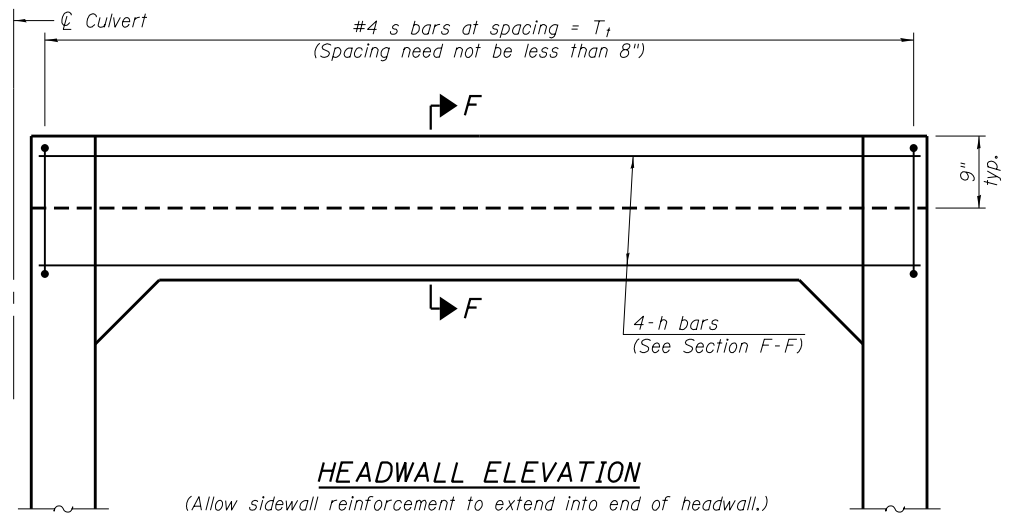
(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)



SECTION D-D



ALTERNATE SECTION D-D



HEADWALL ELEVATION

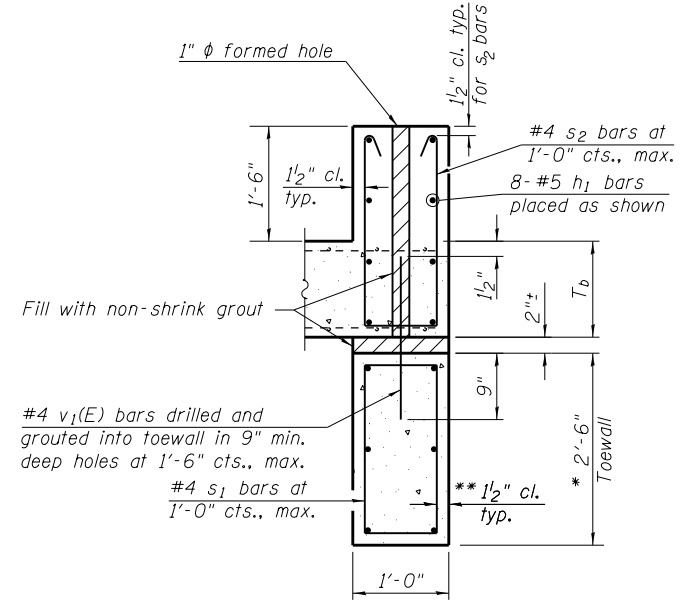
(Allow sidewall reinforcement to extend into end of headwall.)

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION E-E

MCB-TES-2

FILE NAME =	USER NAME =	DESIGNED -	REVISD	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOX CULVERT END SECTIONS, CULVERT NO. 1 EAST END SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISD			326	126C-1	FORD	44	30	
		DRAWN -	REVISD			CONTRACT NO. 66D34					
		CHECKED -	REVISD			ILLINOIS FED. AID PROJECT					

GENERAL NOTES

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2" unless noted otherwise.
 This standard shall only be used on concrete end sections not skewed more than ±15 degrees with roadway.

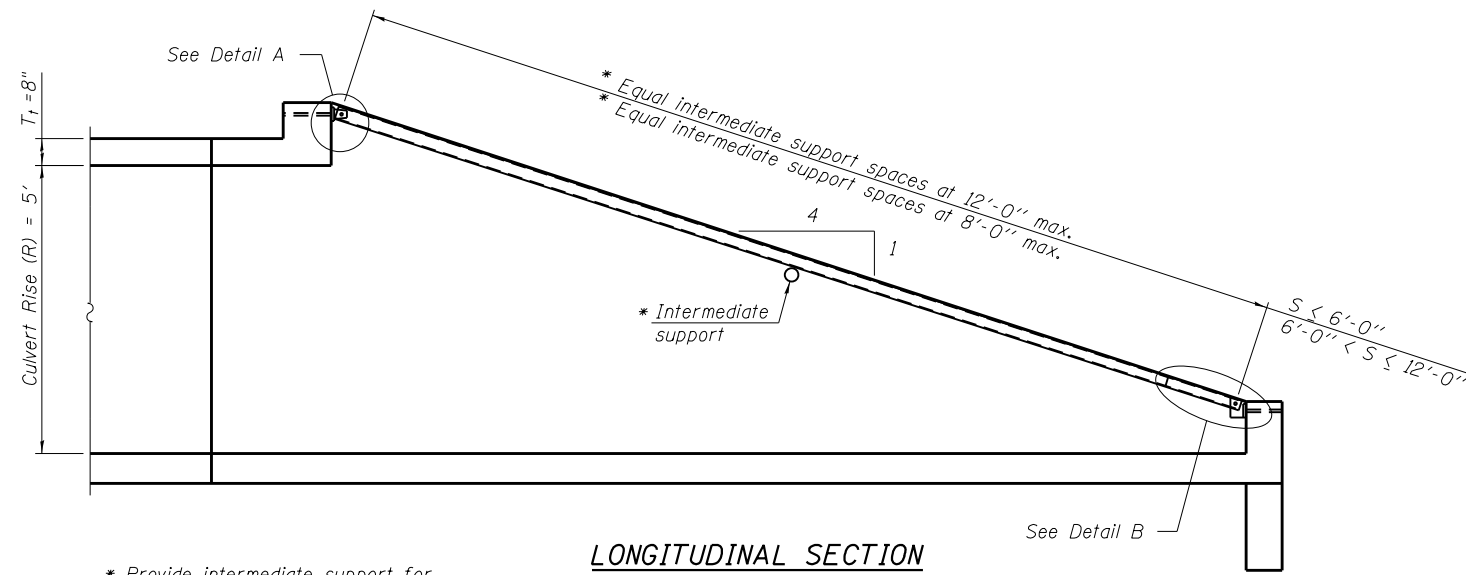
The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional 1/3 turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.

Slope of End Section
1:4

Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
3 @ 19'-8"	2 @ 7'-7"	*74'-2"

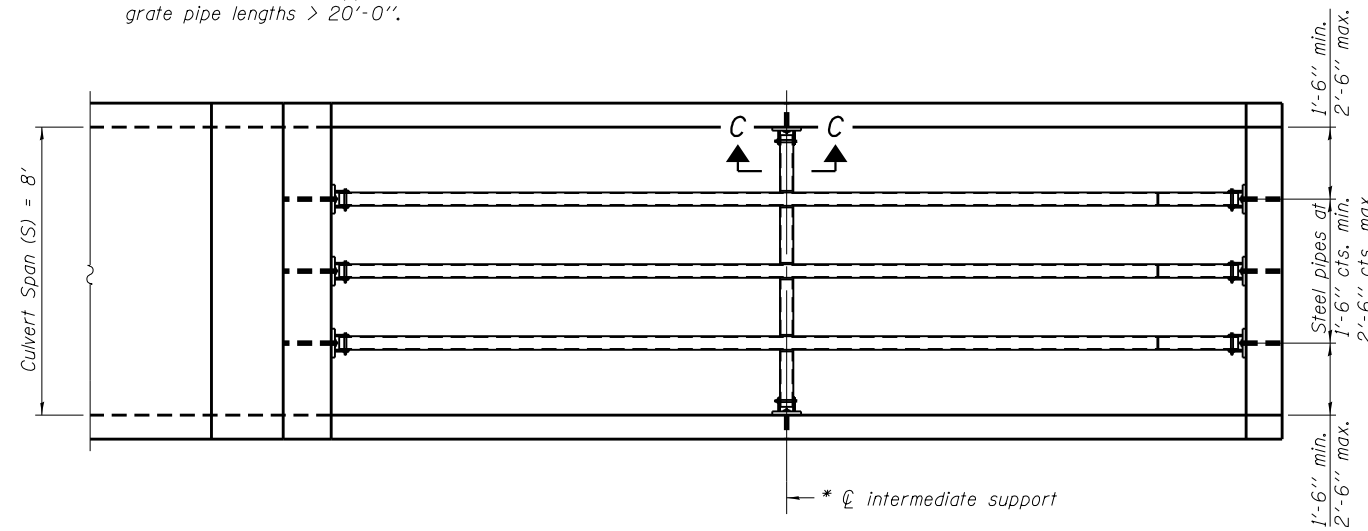
*For One End Section

*For One End Section

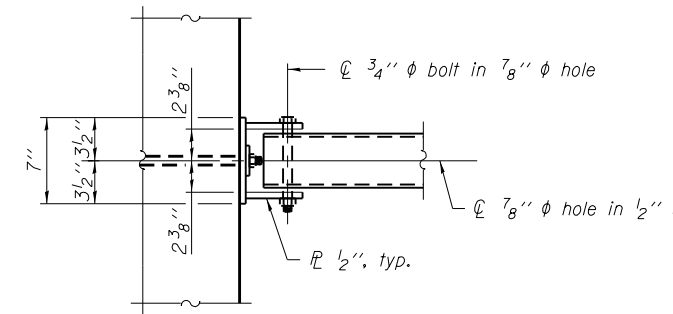


LONGITUDINAL SECTION

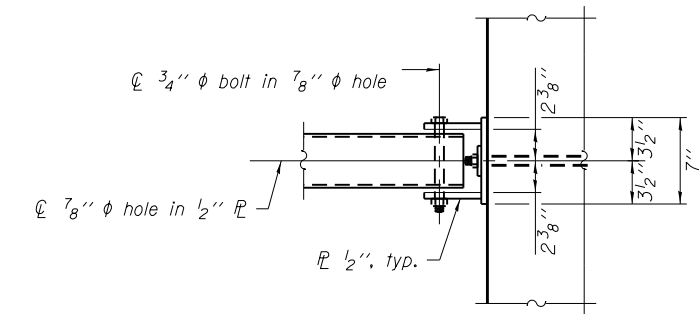
* Provide intermediate support for grate pipe lengths > 20'-0".



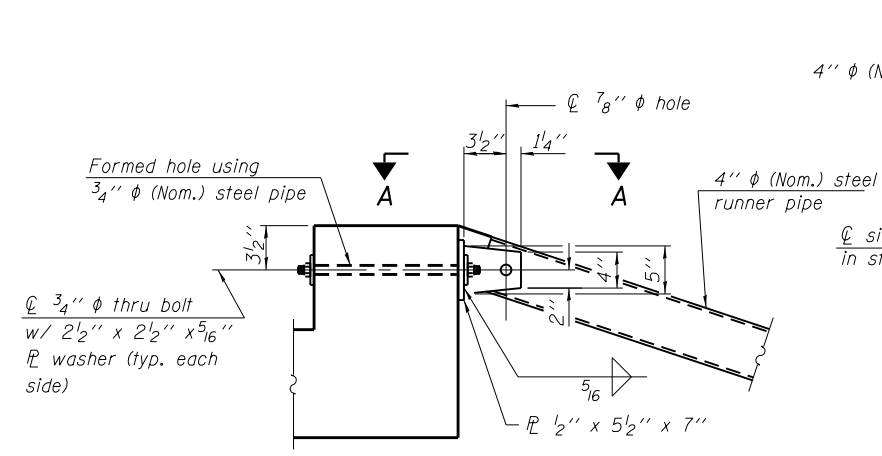
PLAN VIEW



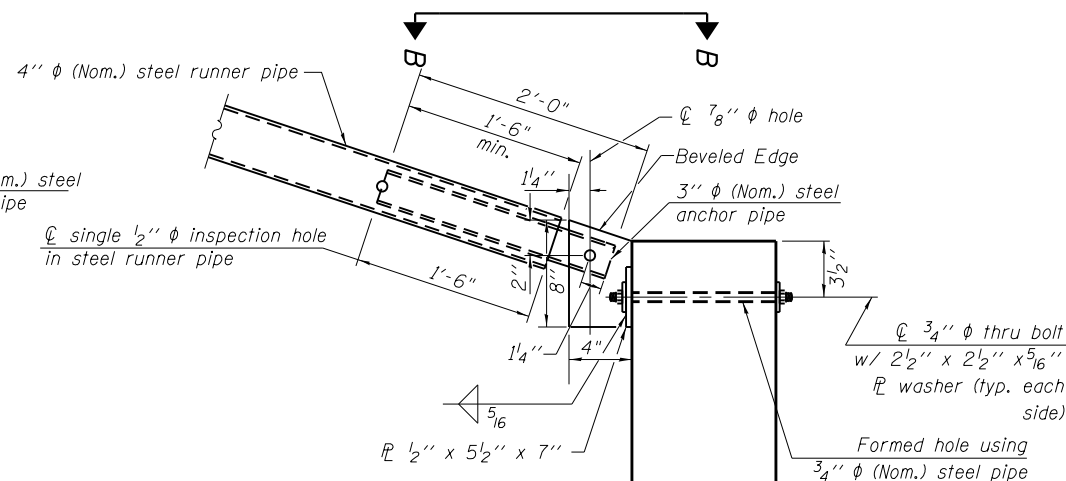
VIEW A-A



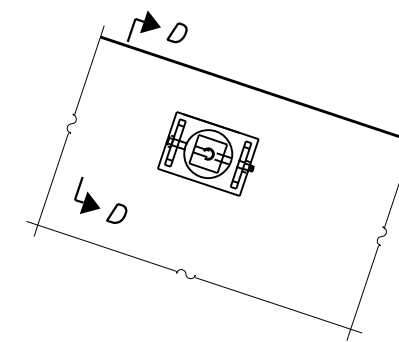
SECTION B-B



DETAIL A

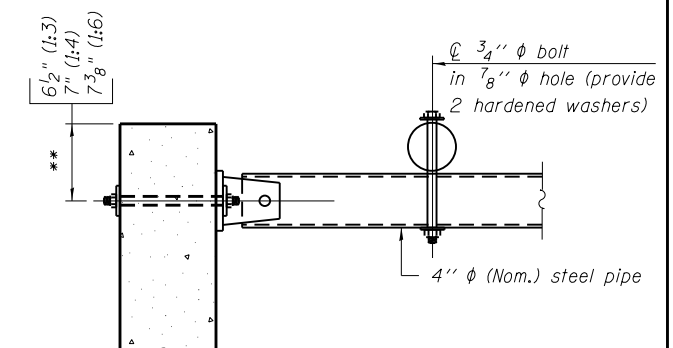


DETAIL B



VIEW C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

TPGBC-ZS-1

FILE NAME =	USER NAME =	DESIGNED -	REVISED
		CHECKED -	REVISED
		DRAWN -	REVISED
		CHECKED -	REVISED
PLOT SCALE =			
PLOT DATE =			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAVERSABLE PIPE GRATE FOR BOX CULVERTS
EAST END SECTIONS**

SHEET NO. 10 OF 15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	31
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 9/14/15

ROUTE FAP 326 (IL 47) DESCRIPTION IL 47 over a Ditch, 1.56 miles North of IL 9 LOGGED BY Larry Myers
 SECTION 126 C-1 LOCATION SW 1/4, SEC. 35, TWP. 24N, RNG. 7E, 3rd PM,
Latitude 40.486838, Longitude -88.380662
 COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D	B	U	M	
						(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft		(ft)	(/6")	(tsf)	(%)	
	027-2524 (Exist.) 198+61.33	01 (N.E. Quad.) 198+93	16.0 ft Rt.	763.68	761.18						756.62	741.2	743.7								
Bituminous Shoulder, Black Silty Clay Loam Fill																					
Hard to Stiff Black Silty Clay Loam Fill						5		4.5	22												
Stiff Gray & Brown Silty Clay						2		1.8	25												
Stiff Gray & Brown Silty Clay Till with Gravel Pieces & Minor Silt / Sand / Gravel Seams						1		1.0	21												
Hard Gray Silty Clay Till						5		6.1	17												
Hard Gray Silty Clay Loam Till						7		7.4	13												
End of Boring																					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 9/14/15

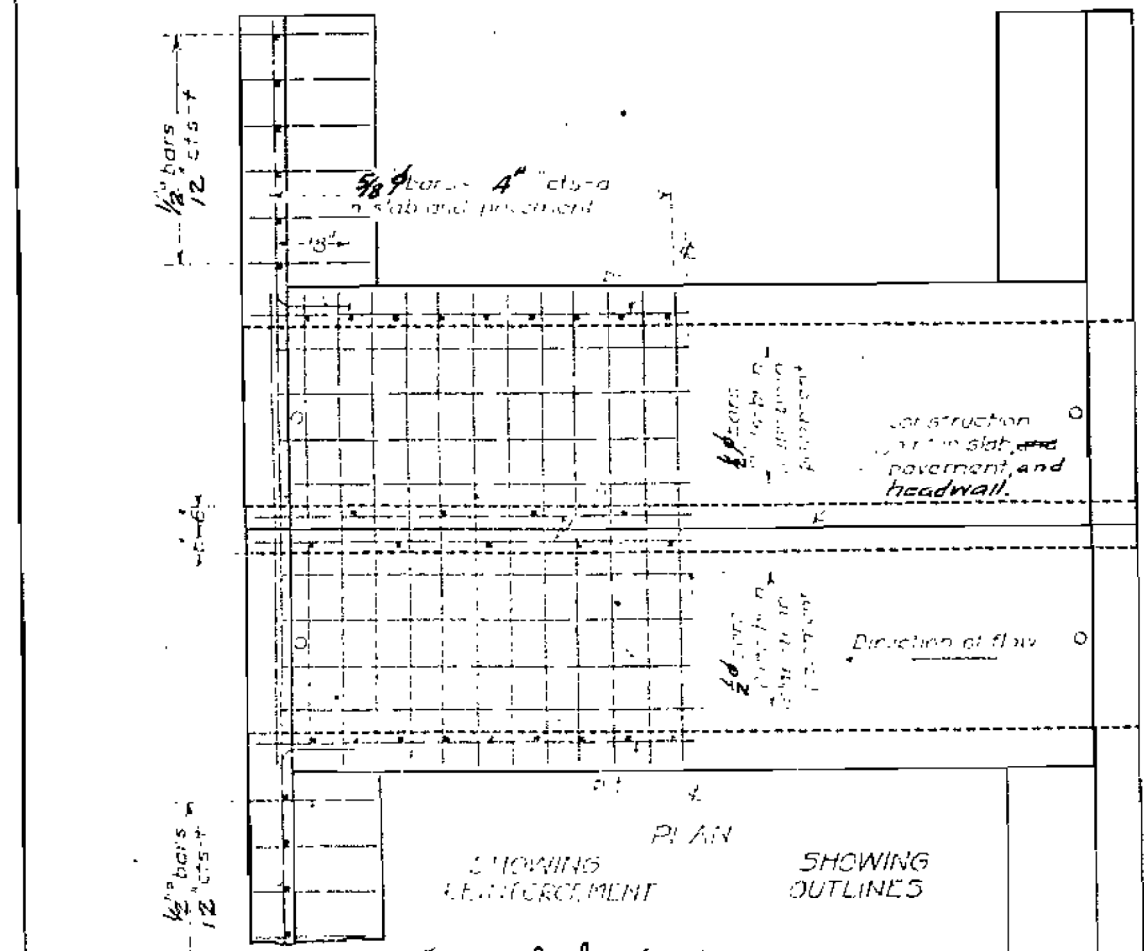
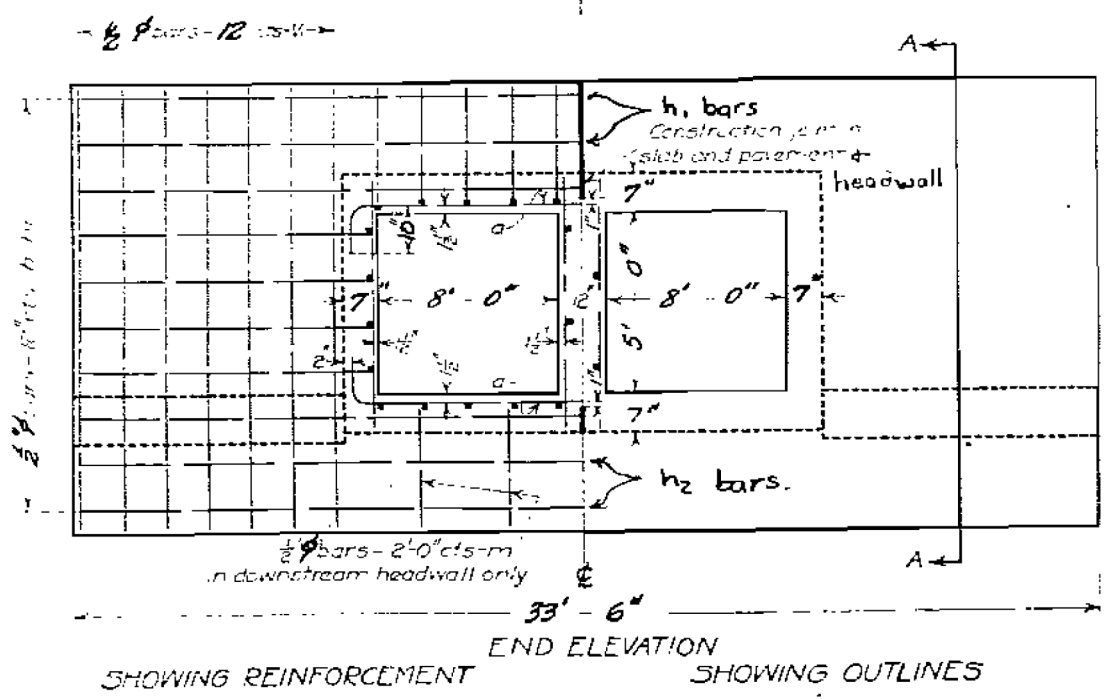
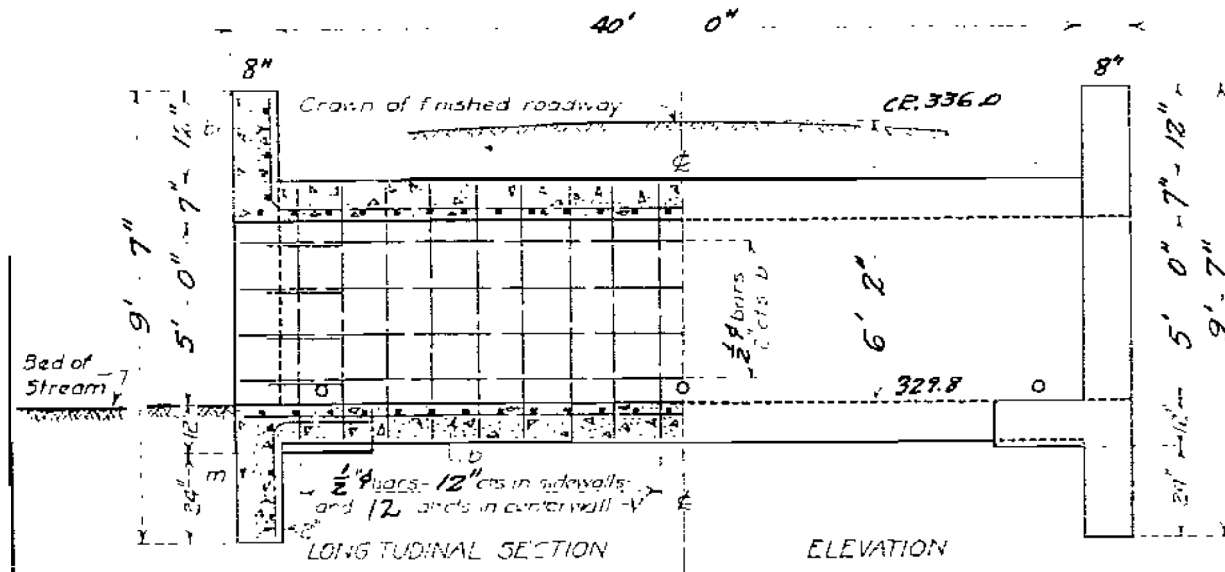
ROUTE FAP 326 (IL 47) DESCRIPTION IL 47 over a Ditch, 1.56 miles North of IL 9 LOGGED BY Larry Myers
 SECTION 126 C-1 LOCATION SW 1/4, SEC. 35, TWP. 24N, RNG. 7E, 3rd PM,
Latitude 40.486654, Longitude -88.380783
 COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D	B	U	M	
						(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft		(ft)	(/6")	(tsf)	(%)	
	027-2524 (Exist.) 198+61.33	02 (S.W. Quad.) 198+27	16.0 ft Lt.	763.66	761.16						756.62	741.7	741.7								
Augered Bituminous Shoulder, Black Silty Clay Loam Fill																					
Stiff Black Silty Clay Loam Fill						3		1.5	21												
Stiff Brown & Gray Silty Clay Loam / Silty Clay with Silt, Sand, Gravel Pockets / Seams						2		1.8	23												
Hard Brown Silty Clay Loam Till						3		4.7	19												
Hard Gray Silty Clay Till						6		7.1	16												
End of Boring																					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
R.C. DOUBLE BOX CULVERT

SEC.	County		
7	126 Ford	37	33
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT 157	



Adjust height of headwalls to be 12" above shoulder elevation. Build tops of headwalls parallel to grade line.

SILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
v	120	1/2"	5'-9"
vi	36	1/2"	9'-0"
h	24	1/2"	9'-6"
hi	8	1/2"	16'-6"
k	12	1/2"	17'-6"
o	240	5/8"	19'-6"
b	24	1/2"	22'-6"
bi	36	1/2"	22'-0"
t	22	1/2"	3'-0"
m	10	1/2"	6'-0"
Reinforcing Steel Lbs			7600*
Concrete-Cu Yds			62.7*

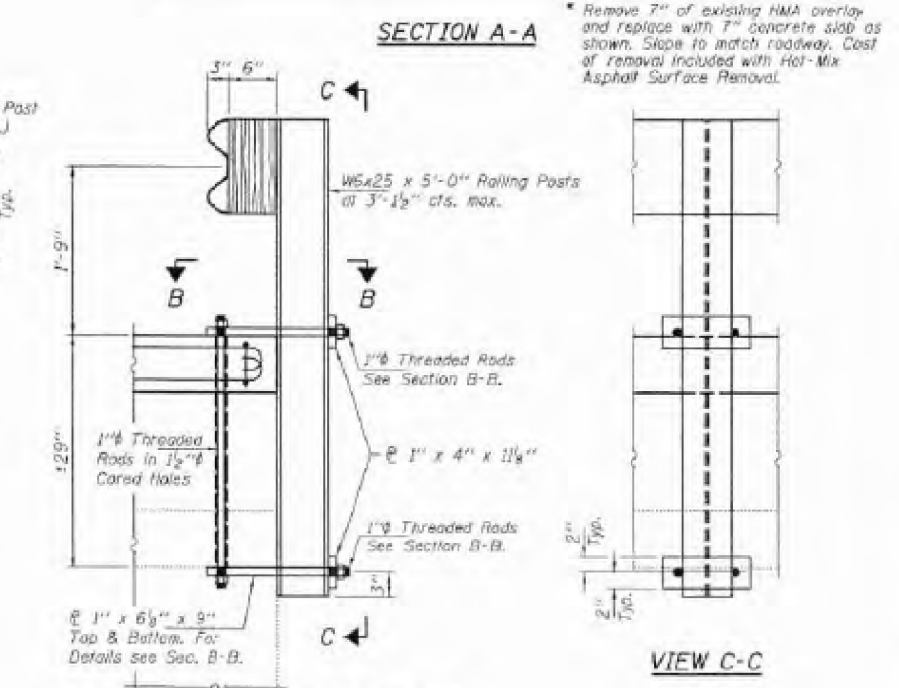
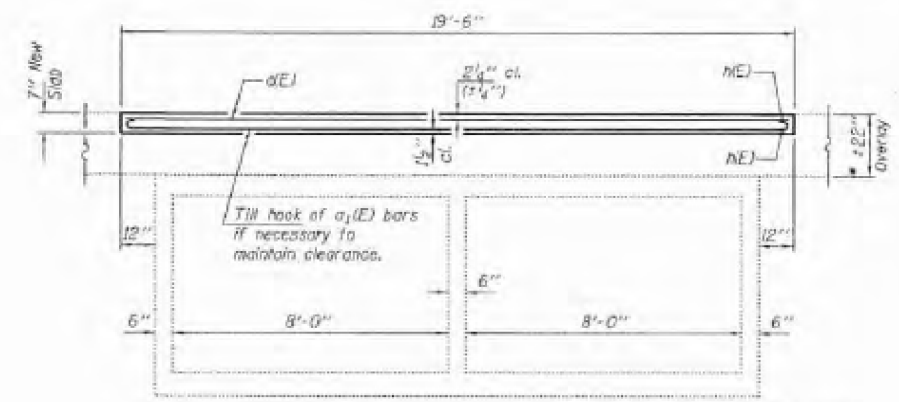
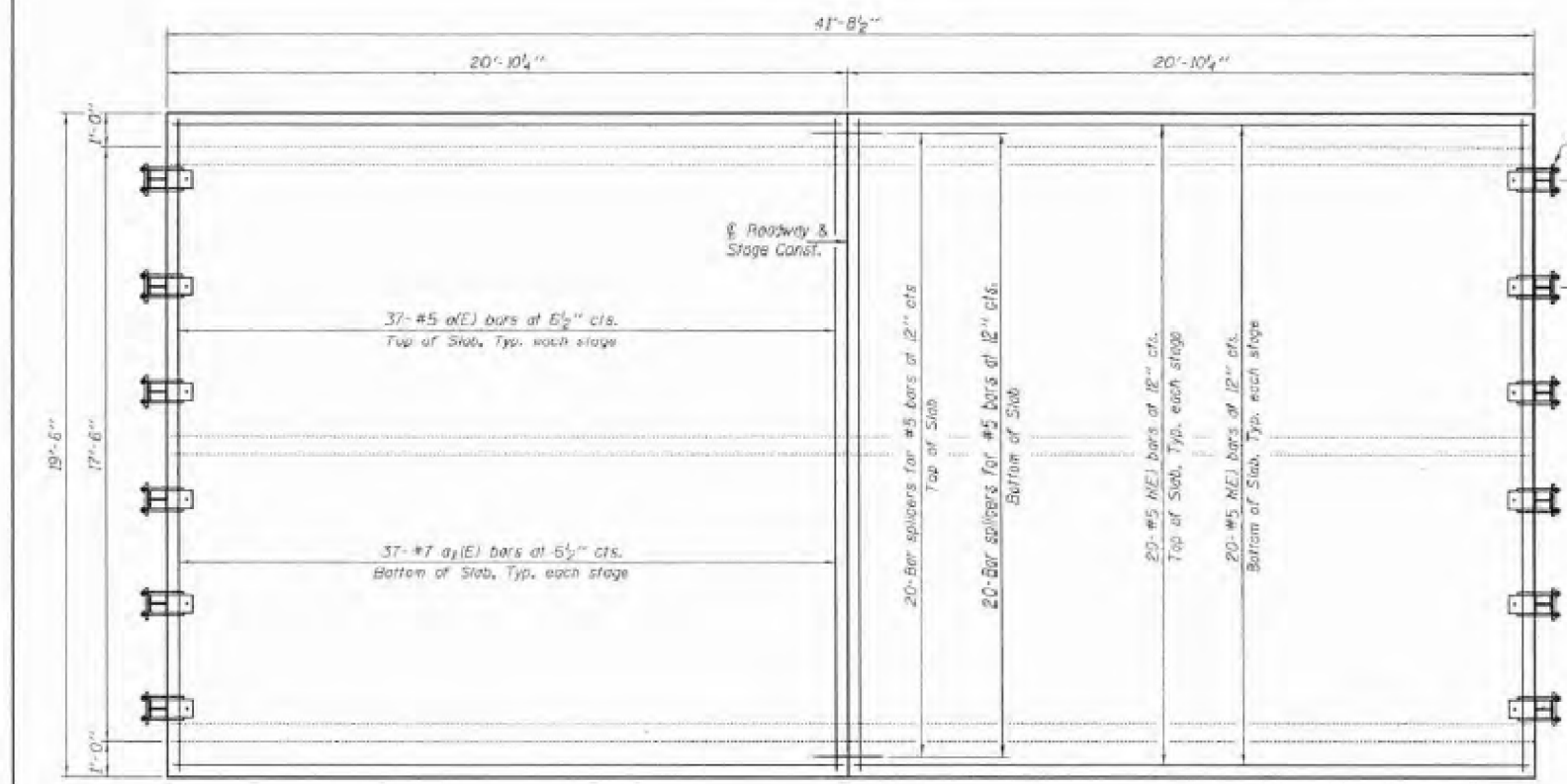
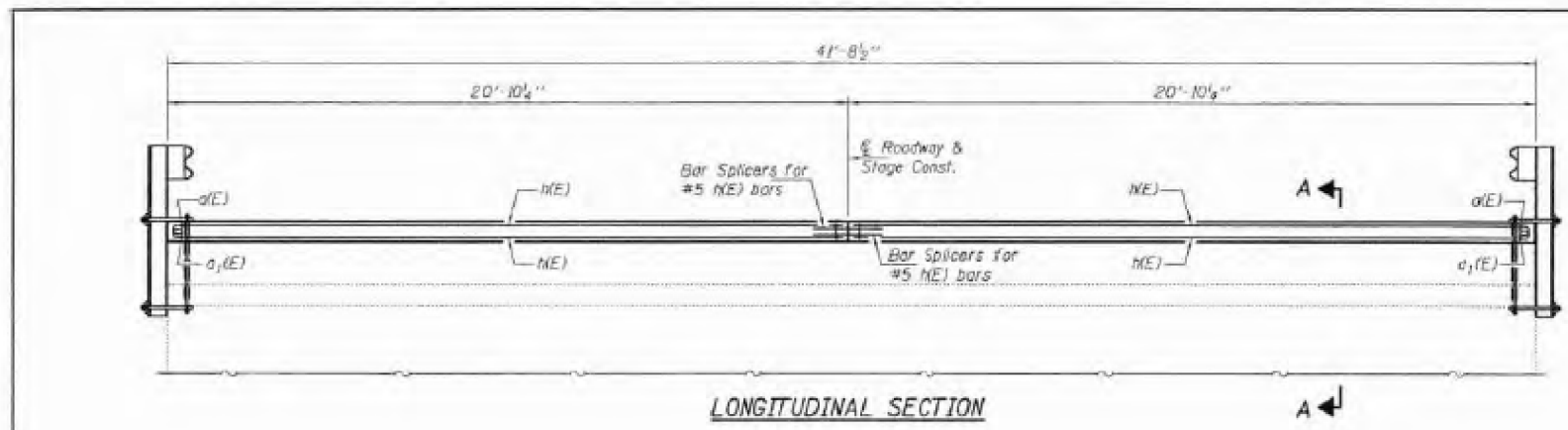
Class X Concrete to be used throughout Proportions 1:2:4

COMPUTED - M.B. Williams
CHECKED - J.P. Williams
DRAWN - M.B. Williams
CHECKED - J.P. Williams
SPECIAL ASSEMBLED - T.J.S.
CHECKED - T.P.S.

EXAMINED July 16 '30
E. F. Burch
P.A.S.
APPROVED
Chief Engineer

STA. 2257+77
Route 47 - Sec. 126
FCA & CO.

1113sp.



GENERAL NOTES

Plan dimensions and details relative to existing plans 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 or 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.

Reinforcement bars designated (E) shall be epoxy coated.

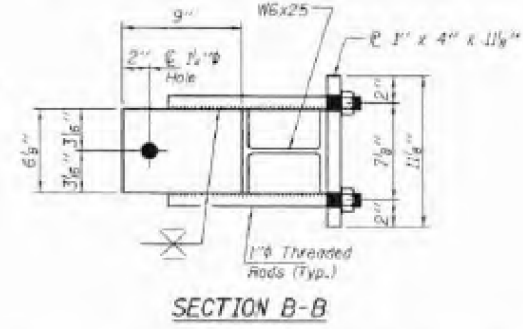
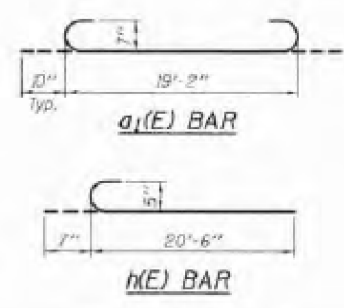
The slab surface shall have its final finish lined according to Article 420.09(a)(4) of the Standard Specifications. Cost included with Concrete Superstructures.

DESIGN STRESSES

FIELD UNITS

$f'c = 3,500$ psi

$f_y = 60,000$ psi (Reinf.)



BILL OF MATERIAL

Bar	No.	Size	Length	Slope
a1(E)	74	#5	19'-2"	
a2(E)	74	#7	20'-10"	
ME	80	#5	21'-1"	
Bar Splicers			Each	40
Hot-Mix Asphalt Surface Removal			Sq. Yds.	90.4
Reinforcement Bars, Epoxy Coated			Pound	6390
Concrete Superstructure			Cu. Yds.	17.6
SPBGR Attached to Structure (Special)			Foot	39.0

DESIGNED	EXAMINED	DATE	MAY 8, 2012
CHECKED			
BROWN			
CHECKED			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 47 OVER DITCH
SM 027-2524
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	34
CONTRACT NO. 66C29				

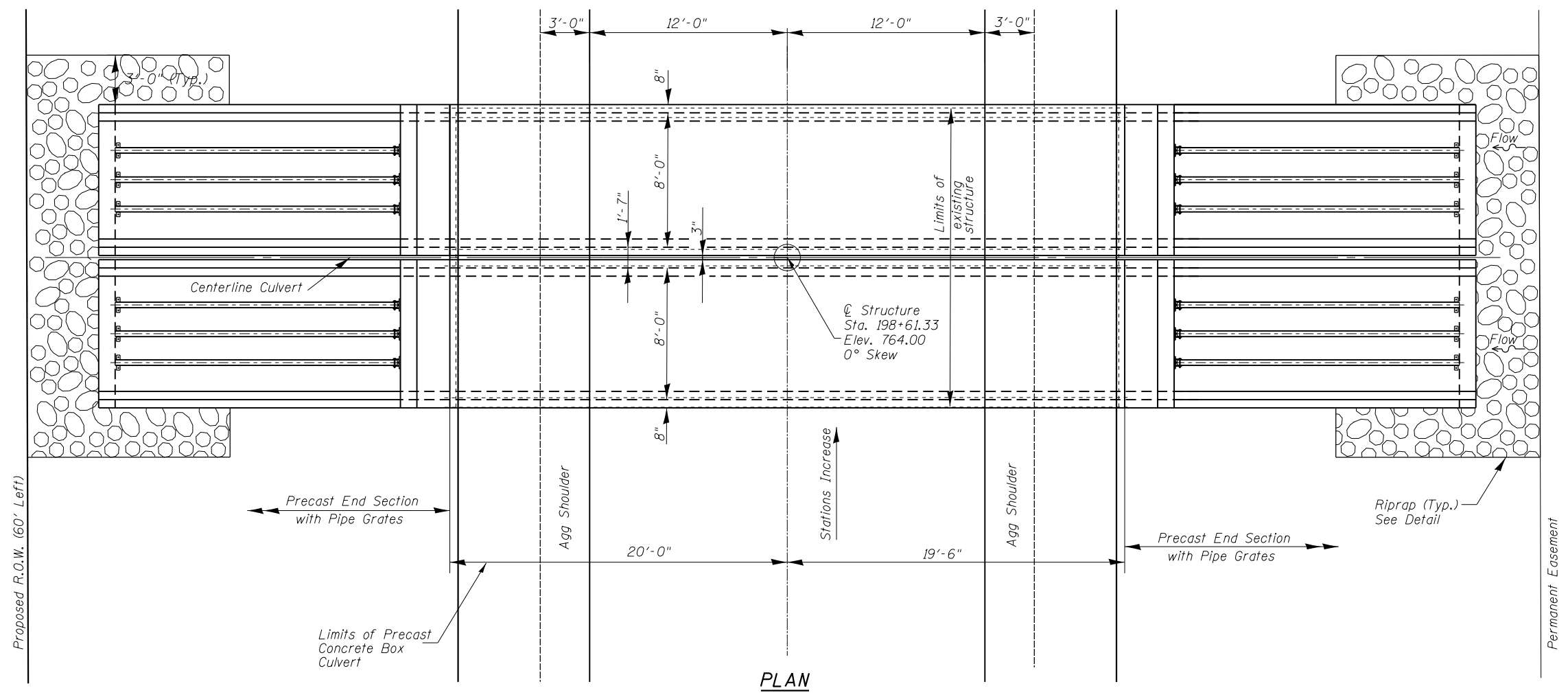
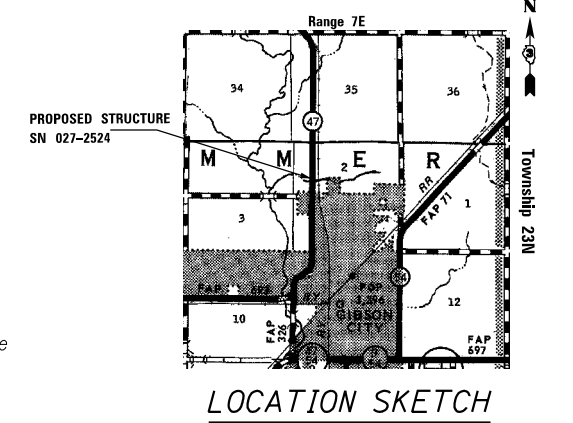
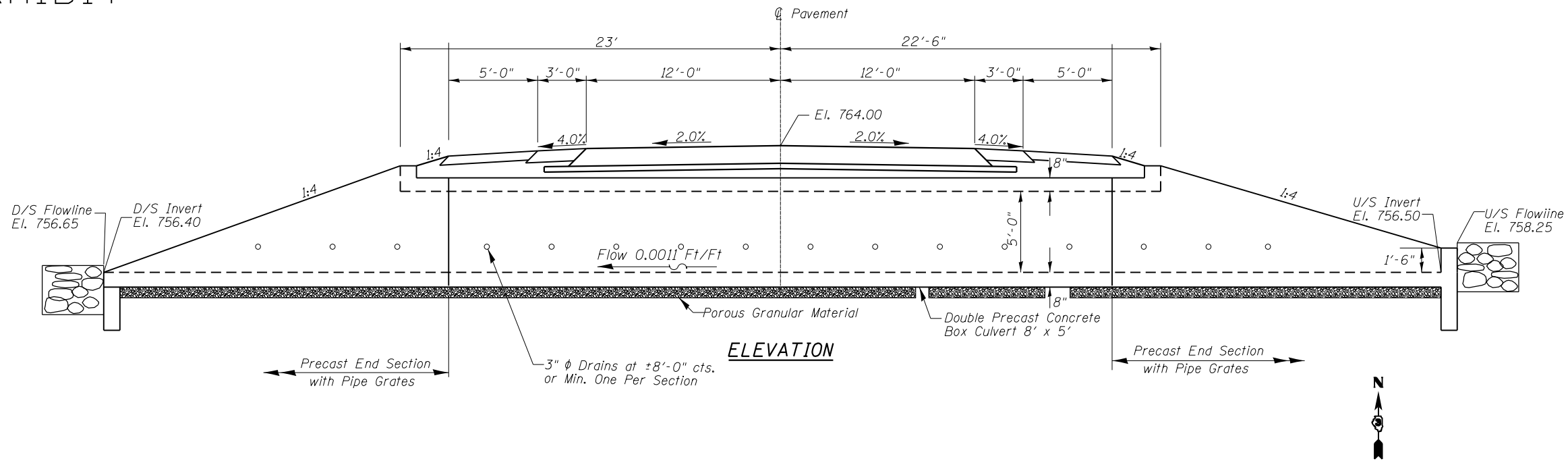
FILE NAME	USER NAME	DESIGNED	REVISED
pw\11084EBIDINTEG.illinois.gov\PIWIDOTDocuments\DOT Offices\District 3\Projects\0366034\Drawings\0366034-sht-boxcu	duncanbd		
PLOT SCALE	CHECKED	REVISED	
1/8" = 1'-0"			
PLOT DATE	DATE	REVISED	
10/20/2017			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
SN 027-2524
SCALE: SHEET NO. 13 OF 15 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	34
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

EXHIBIT

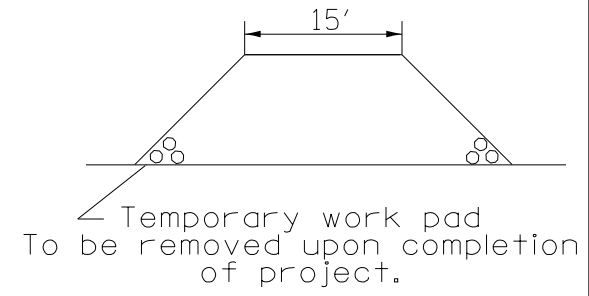
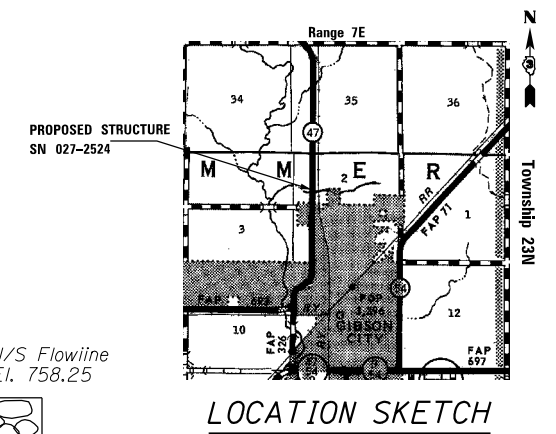
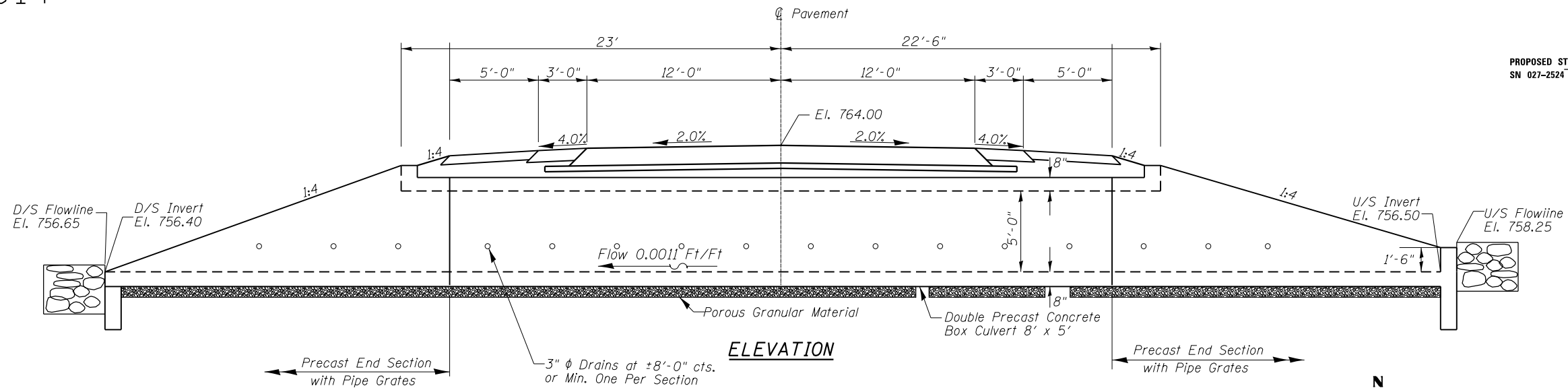


Not to Scale

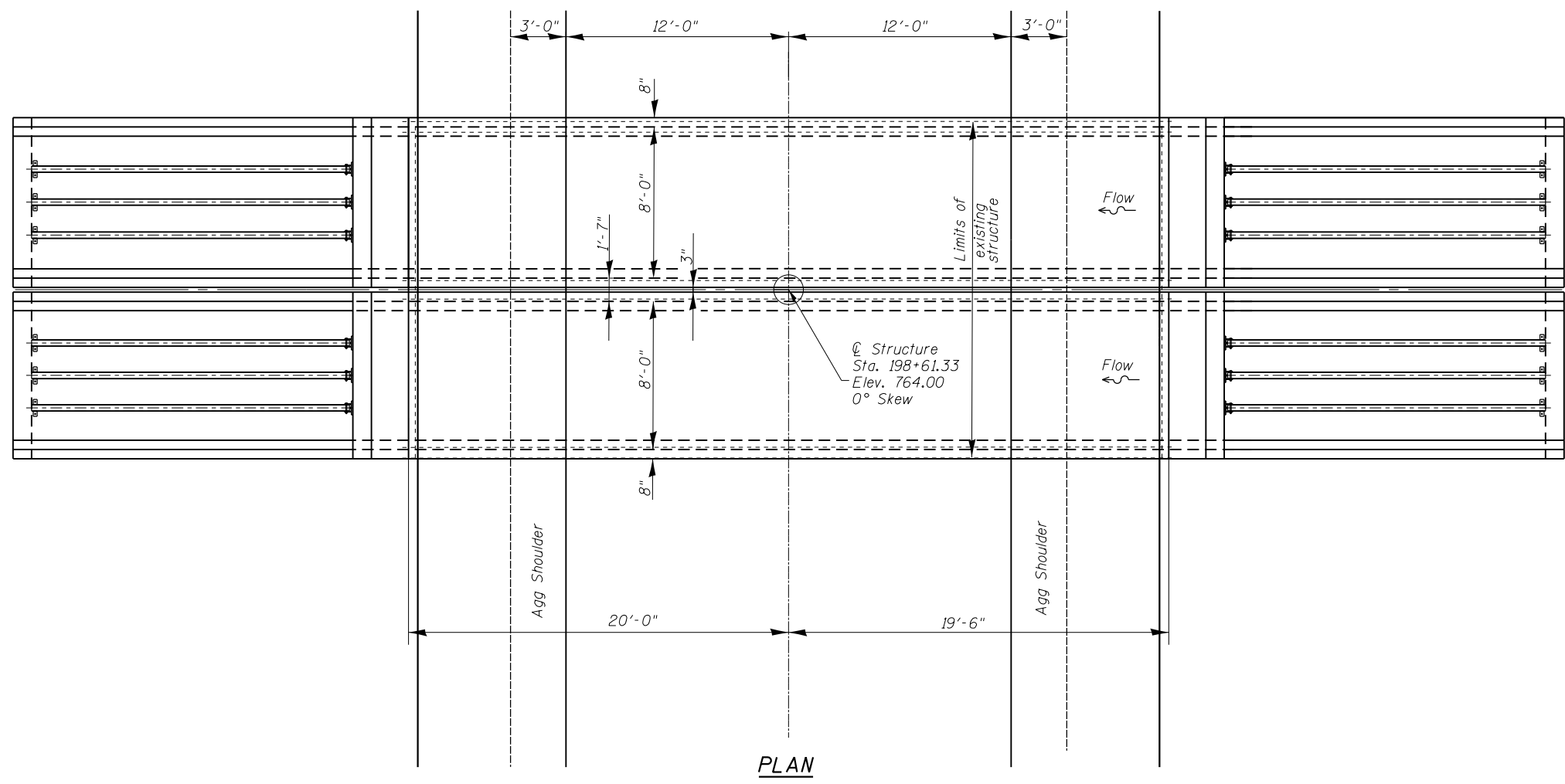
GENERAL PLAN & ELEVATION
US ROUTE 47 OVER DRUMMER CREEK
F.A.P. RT. 326 SEC. 126C-1
FORD COUNTY
STATION 198+61.33
EXISTING STRUCTURE NO. 027-2524
PROPOSED STRUCTURE NO. 027-2554

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	404 PERMIT EXHIBITS SN 027-2554	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 3\Projects\0366\Drawings\0366\036634-sht-boxculvert\036634-sht-boxculvert.dwg	PLLOT SCALE = 8.0000' / in.	CHECKED -	REVISED -			326	126C-1	FORD	44	35
PLLOT DATE = 10/20/2017	DATE -	REVISED -	REVISED -			CONTRACT NO. 66D34				
						SCALE:	SHEET NO. 14 OF 15 SHEETS	STA.	TO STA.	

EXHIBIT



Temporary work pad
 Approximately 56 sq. yds of
 clean coarse aggregates.
 To be removed upon completion
 of project.

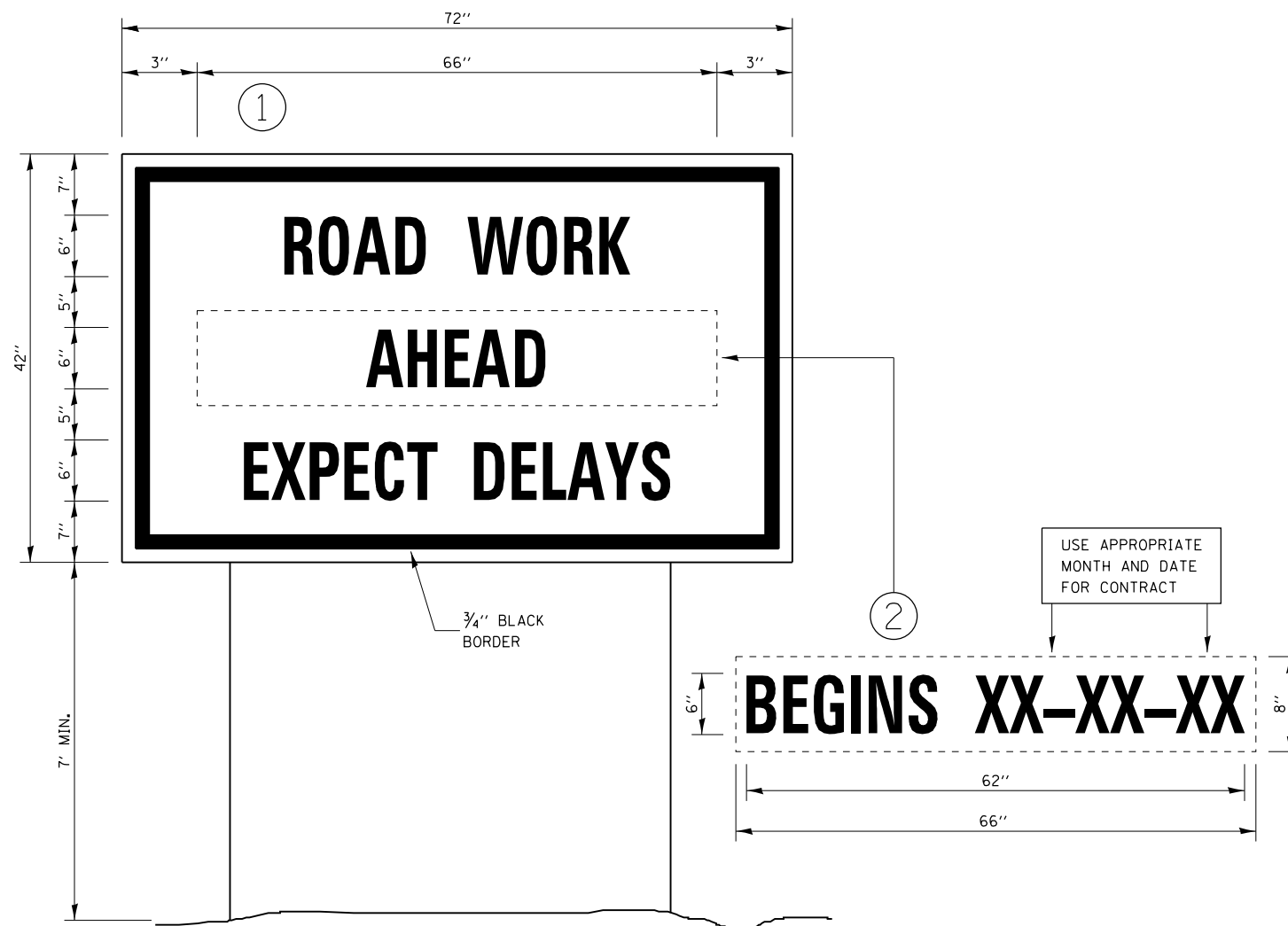


Temporary work pad
 Approximately 56 sq. yds of
 clean coarse aggregates.
 To be removed upon completion
 of project.

Not to Scale

GENERAL PLAN & ELEVATION
US ROUTE 47 OVER DRUMMER CREEK
F.A.P. RT. 326 SEC. 126C-1
FORD COUNTY
STATION 198+61.33
EXISTING STRUCTURE NO. 027-2524
PROPOSED STRUCTURE NO. 027-2554

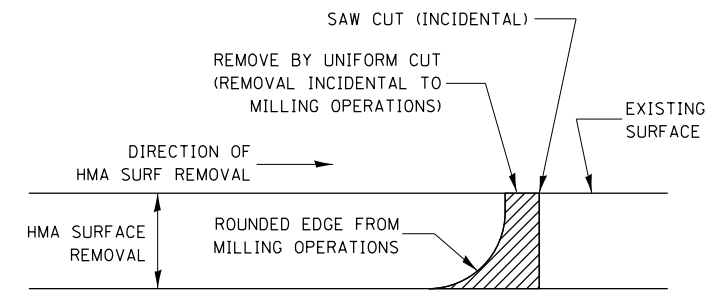
FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	404 PERMIT EXHIBITS SN 027-2554	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBID\INTEG.illinois.gov\PIWID\Documents\IDOT Offices\District 3\Projects\03660\Drawings\EA\Drawings\0366034-sht-boxcu\REVISED.dgn	PLLOT SCALE = 8.0000' / in.	CHECKED -	REVISED -			326	126C-1	FORD	44	36
PLLOT DATE = 10/20/2017	DATE -	REVISED -	REVISED -			CONTRACT NO. 66D34				
						SCALE:	SHEET NO. 15 OF 15 SHEETS	STA.	TO STA.	



TEMPORARY INFORMATION SIGNING

NOTES:

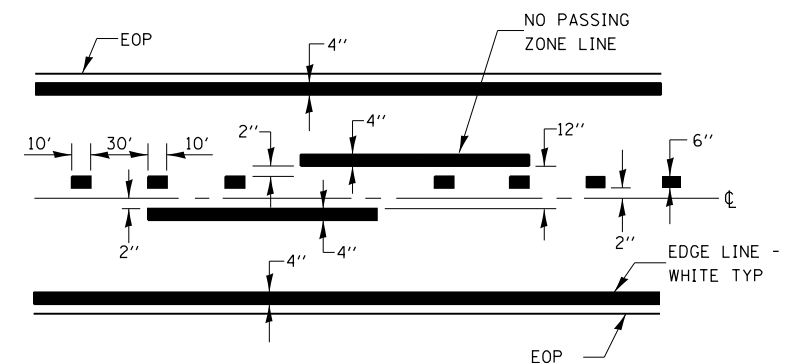
1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

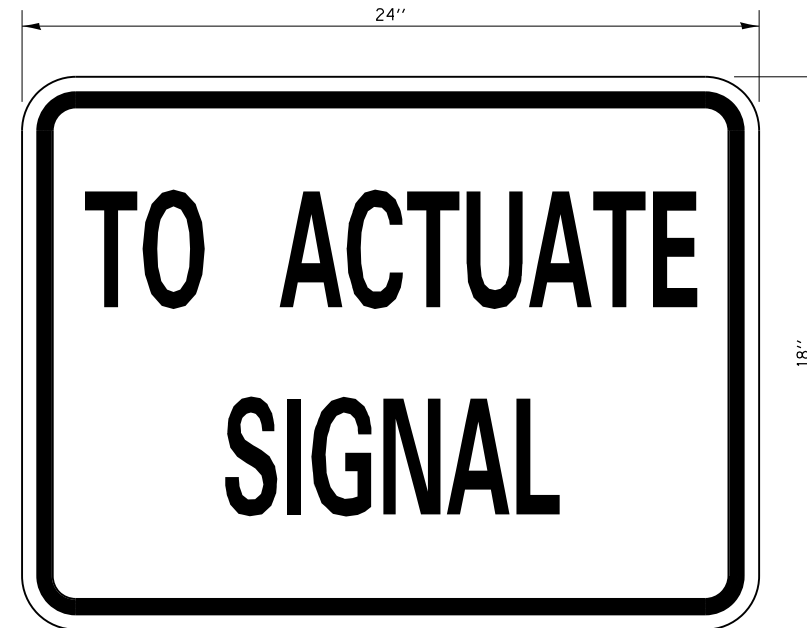
HMA DETAIL AT BUTT JOINTS



CENTERLINE & NO PASSING ZONE LINES - YELLOW

PAVEMENT MARKING

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 3\Projects\0366034\Drawings\0366034-sht-PLAN	DRAWN -	CHECKED -	REVISED -			326	126C-1	FORD	44	37	
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			CONTRACT NO. 66D34					
	PLOT DATE = 10/20/2017	DATE -	REVISED -			SCALE:	SHEET 1 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



SIZE: 24" x 18"

4" CAPITAL LETTERS - BLACK

1/2" BORDER - BLACK

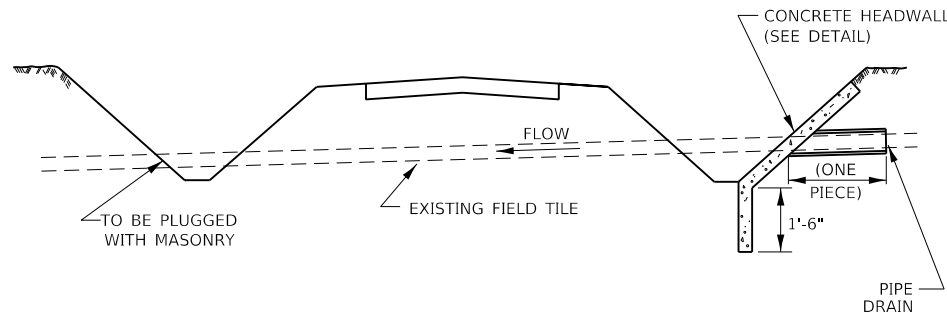
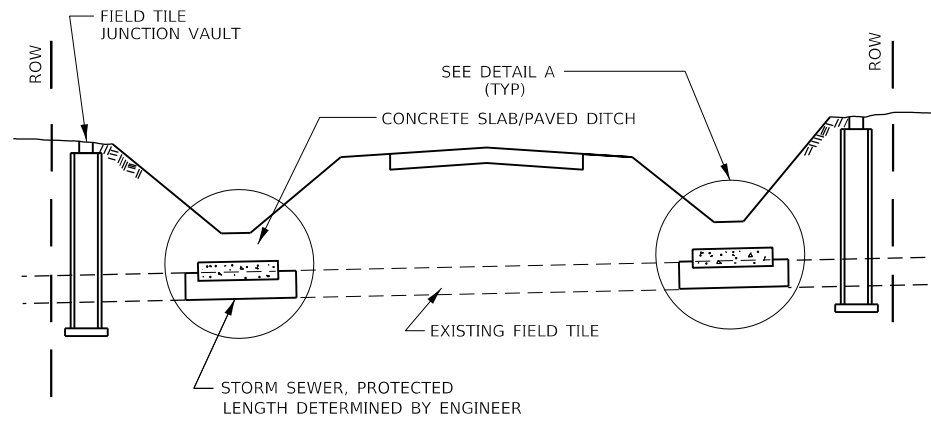
WHITE REFLECTIVE - TYPE B
ENGINEERING GRADE SHEETING

GENERAL NOTE:

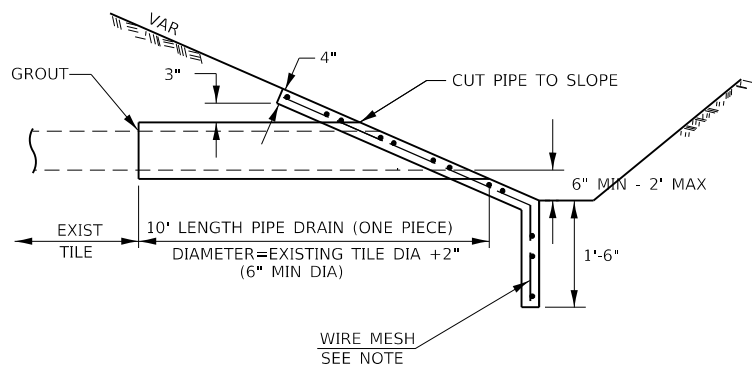
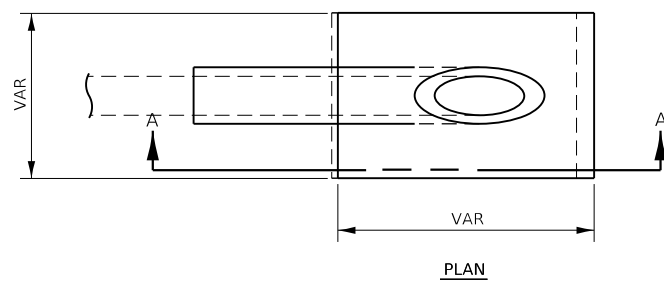
THIS SIGN SHALL BE INSTALLED AT THE
STOP LINE AS DIRECTED BY THE ENGINEER.

STOP LINE SIGN FOR TEMPORARY SIGNALS

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366034\Drawings\0366034-sht-PLAN	DRAWN	CHECKED	REVISED			326	126C-1	FORD	44	38
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 66034			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 10/20/2017	DATE -	REVISED -			SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.	

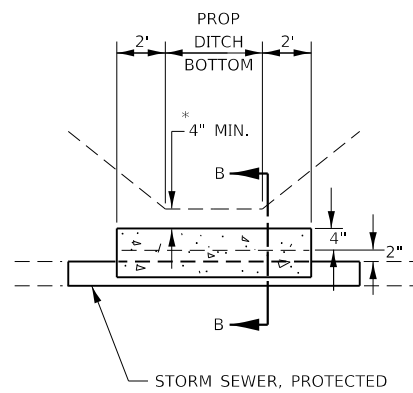


FIELD TILE REPLACEMENT



SECTION A-A

CLASS SI CONCRETE HEADWALLS



DETAIL A

NO SCALE

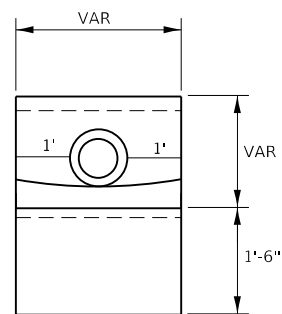
* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

NOTES

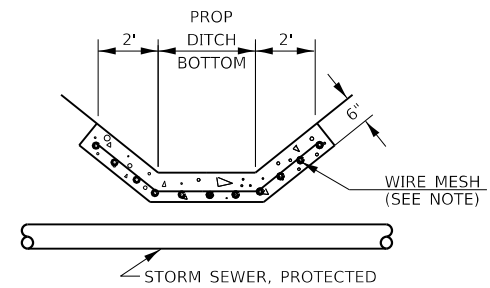
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

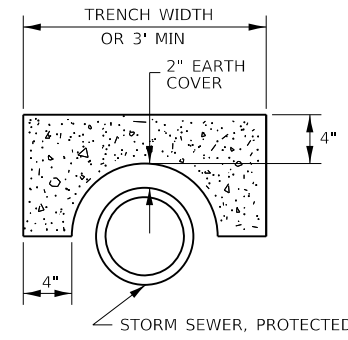


END VIEW

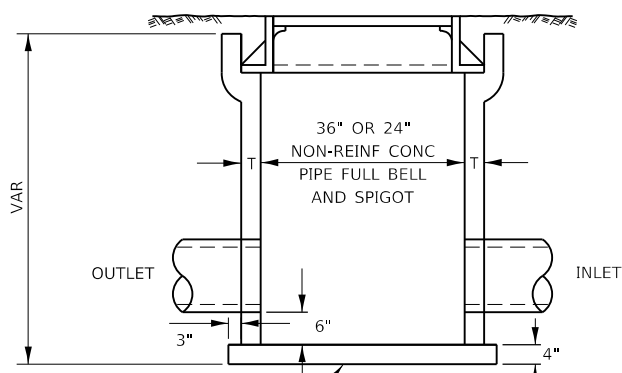


DETAIL C

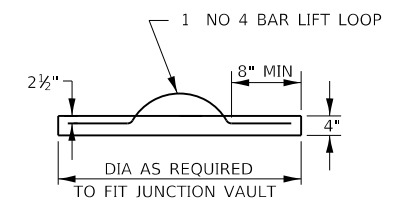
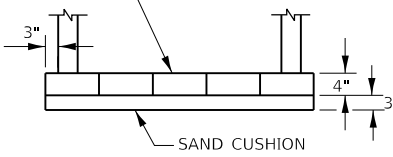
NO SCALE



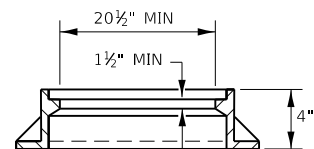
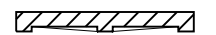
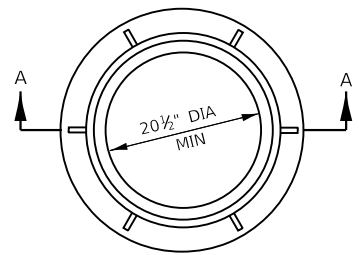
SECTION B-B



CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



FIELD TILE JUNCTION VAULT



SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"

NOTES

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

MODEL: Default
FILE NAME: p:\u0008\BID\NTEC\Illinois\gov\FWID\DOT\Documents\1\DOT Office\1\126C-1\126C-1.dwg
PROJECT: 126C-1\126C-1.dwg
DATE: 10/20/2017

USER NAME = duncanbd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/20/2017	DATE -	REVISED -

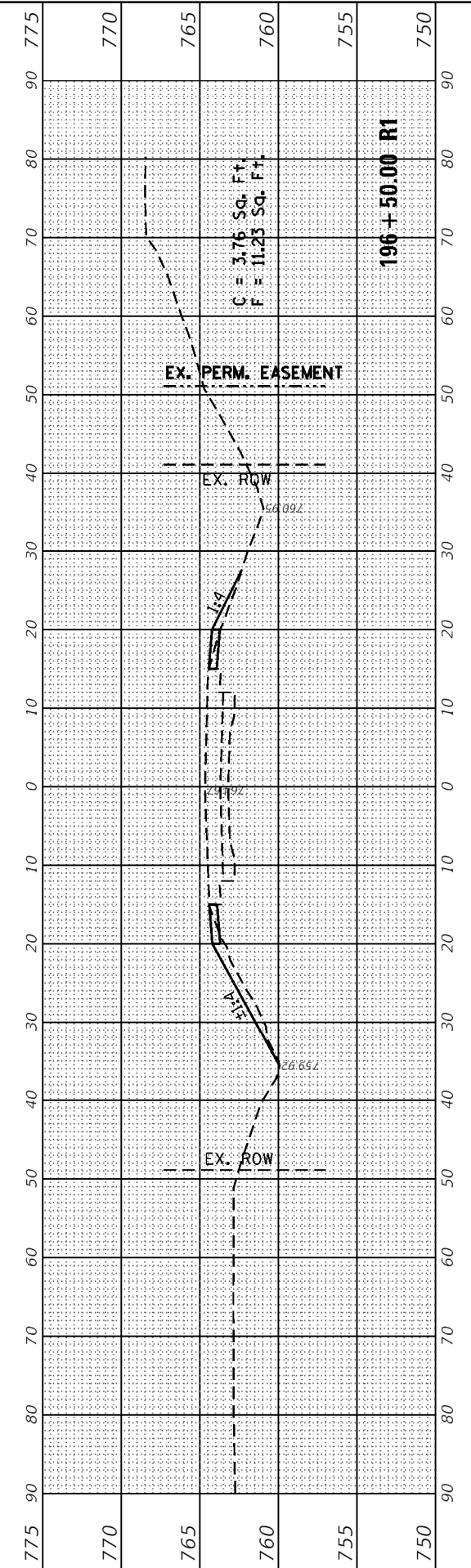
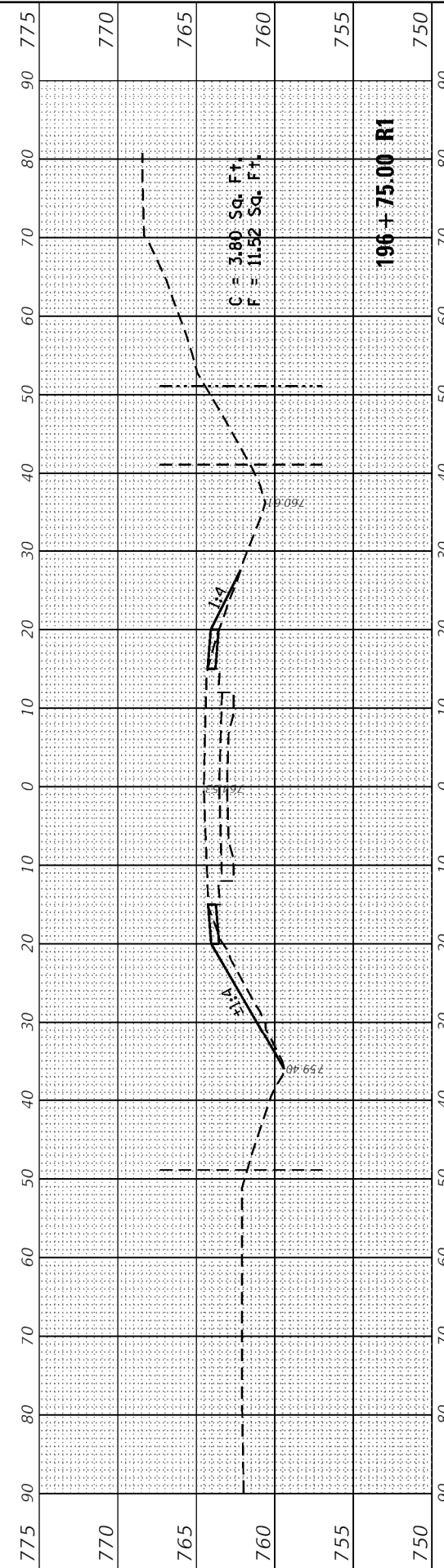
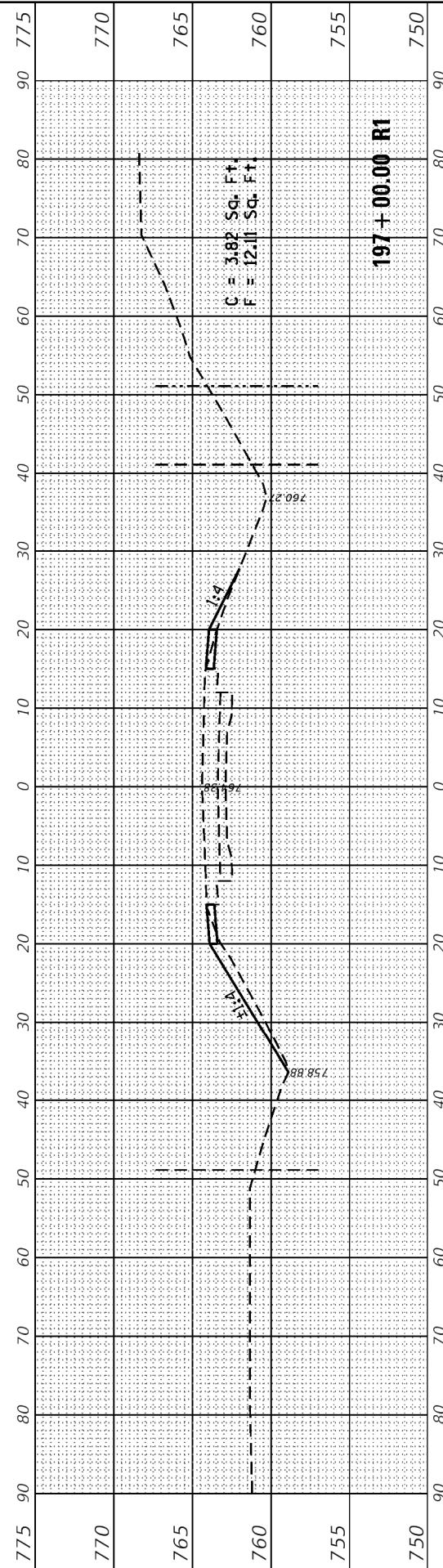
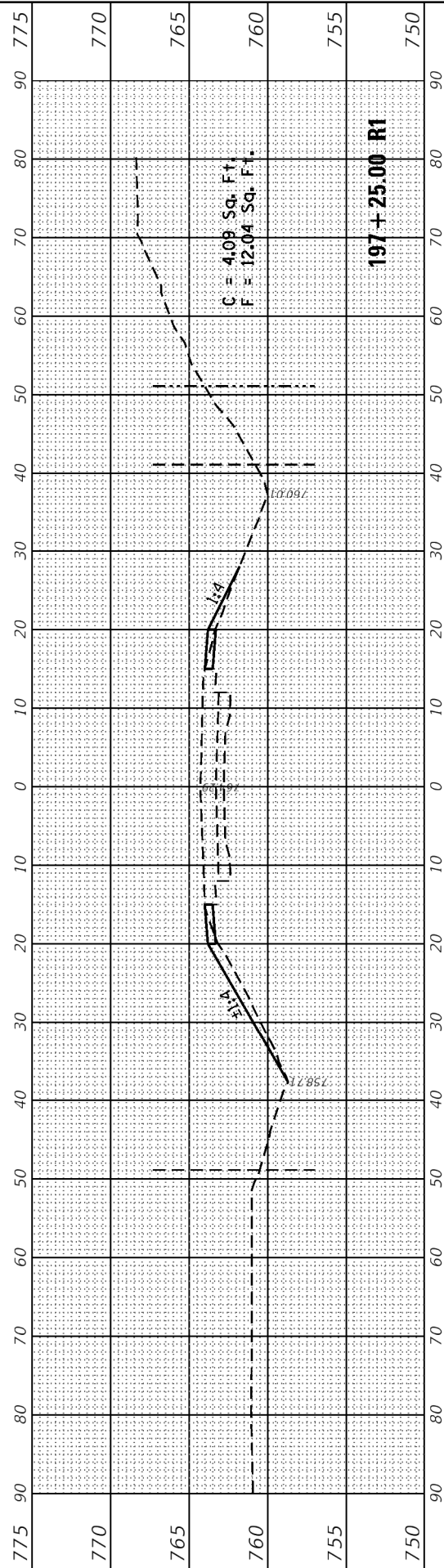
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS			
SCALE:	SHEET 3 OF 3 SHEETS	STA.	TO STA.

F.A.P. RTE. 326	SECTION 126C-1	COUNTY FORD	TOTAL SHEETS 44	SHEET NO. 39
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = p:\IL084E\BID\INTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 3\Projects\0366034\CADD\Drawings\Drawings\0366034-topo.dgn
 USER NAME = duncanbd
 DESIGNED -
 REVISIONS:
 REVISIONS:
 REVISIONS:
 REVISIONS:
 PLOT SCALE = 20.0000' / in.
 CHECKED -
 DATE -
 PLOT DATE = 10/20/2017

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

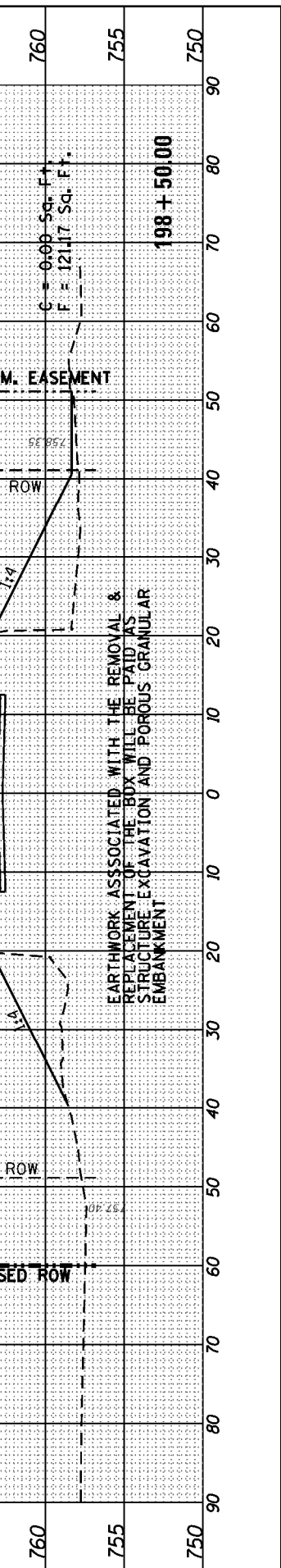
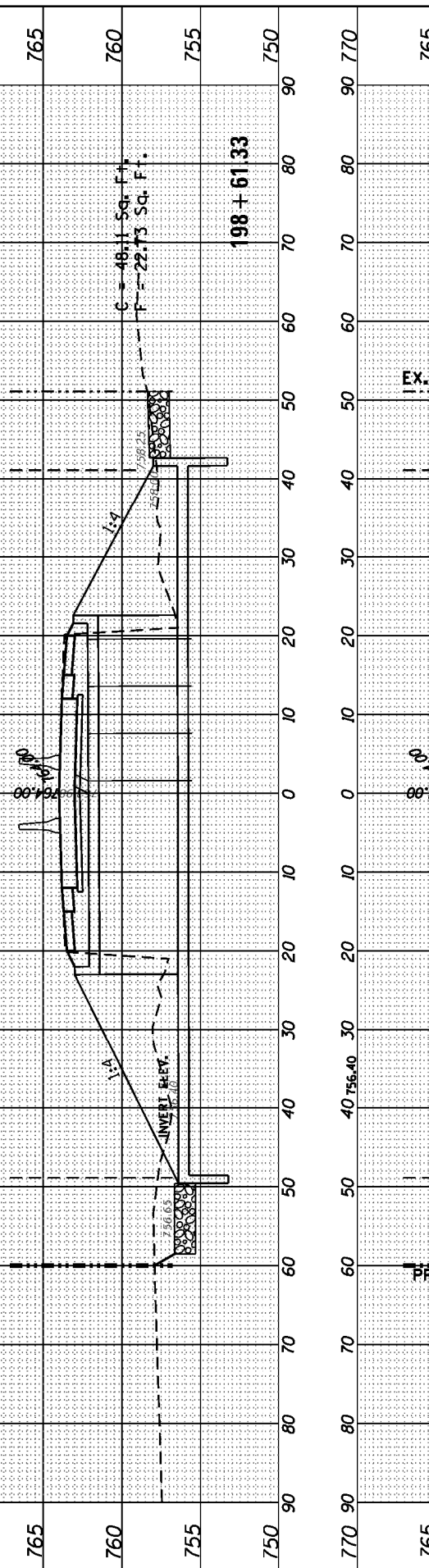
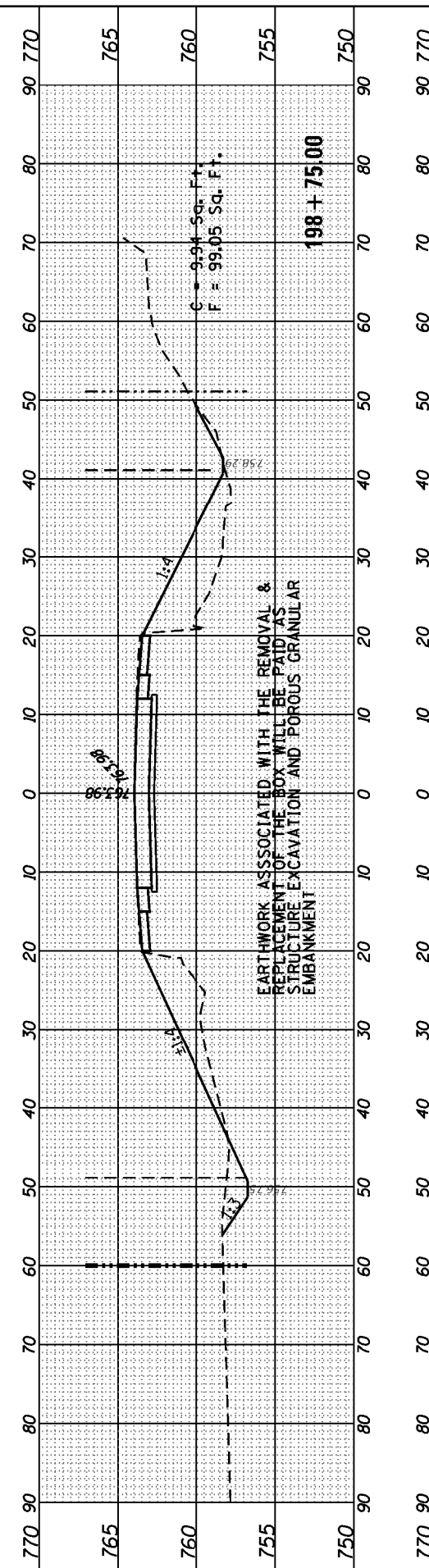
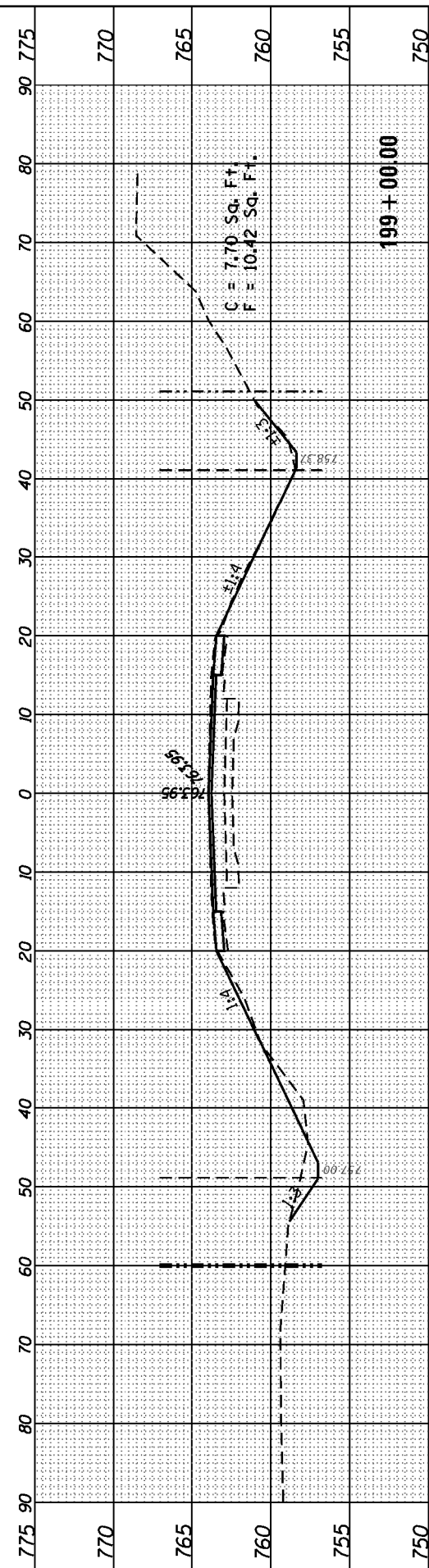
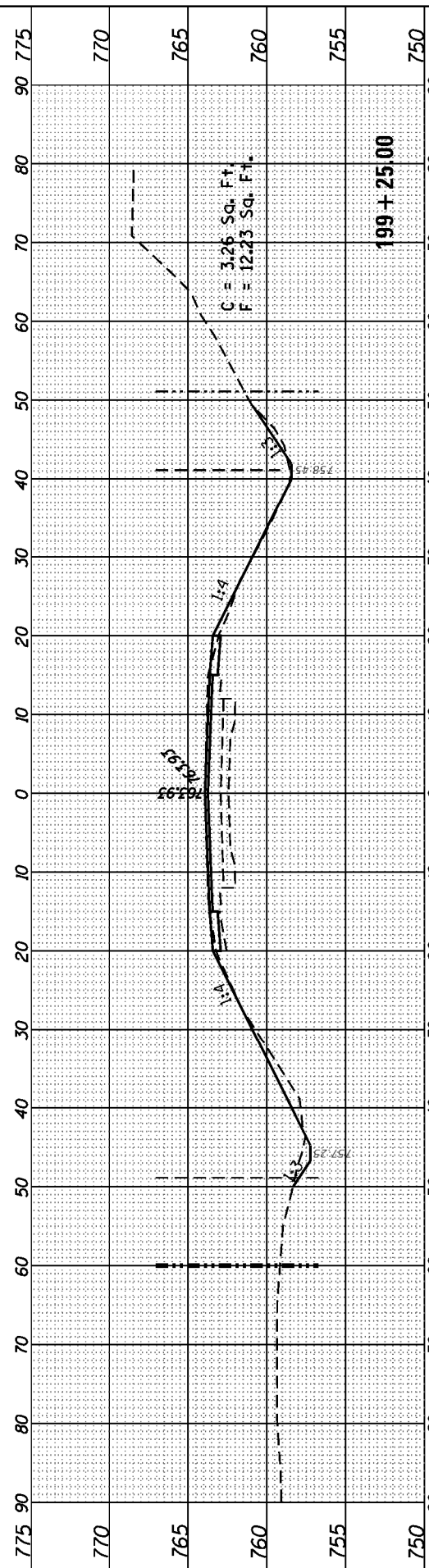
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 196+50.00 R1 TO STA. 197+25.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	40
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = p:\11\084E\BID\INTEG.\Illinois.gov\PIDOT\Documents\DOT Offices\District 3\Projects\0366034\CADD\DRAWINGS\Sheets\0366034-topo.dgn

USER NAME = duncanbd
 DESIGNED -
 CHECKED -
 DATE -
 PLOT SCALE = 28.0000' / in.
 PLOT DATE = 10/20/2017

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

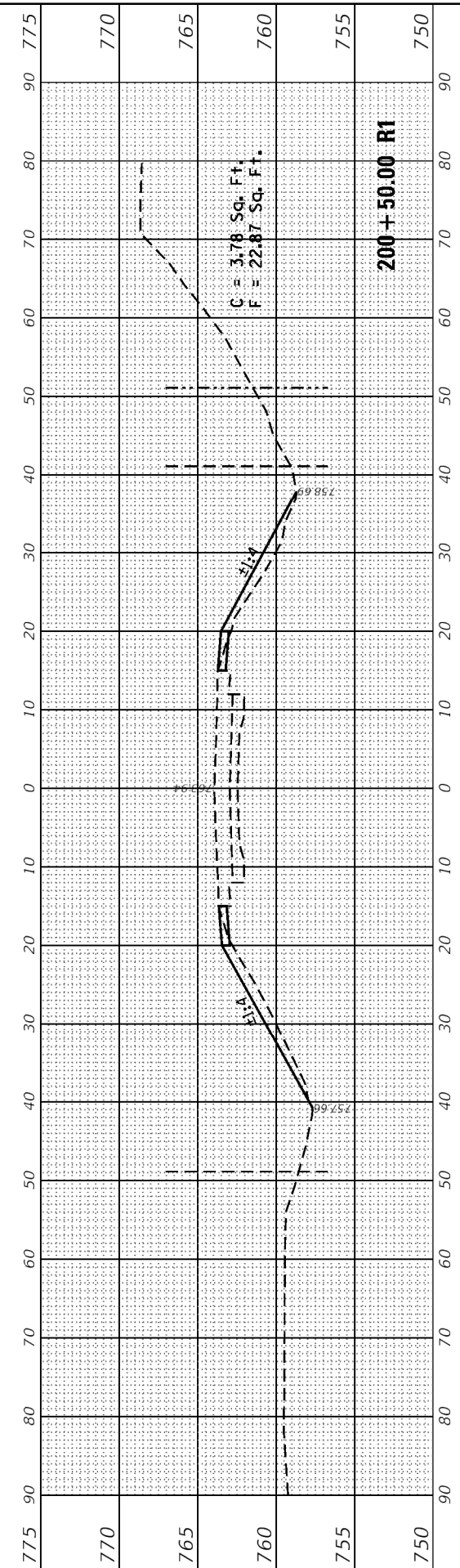
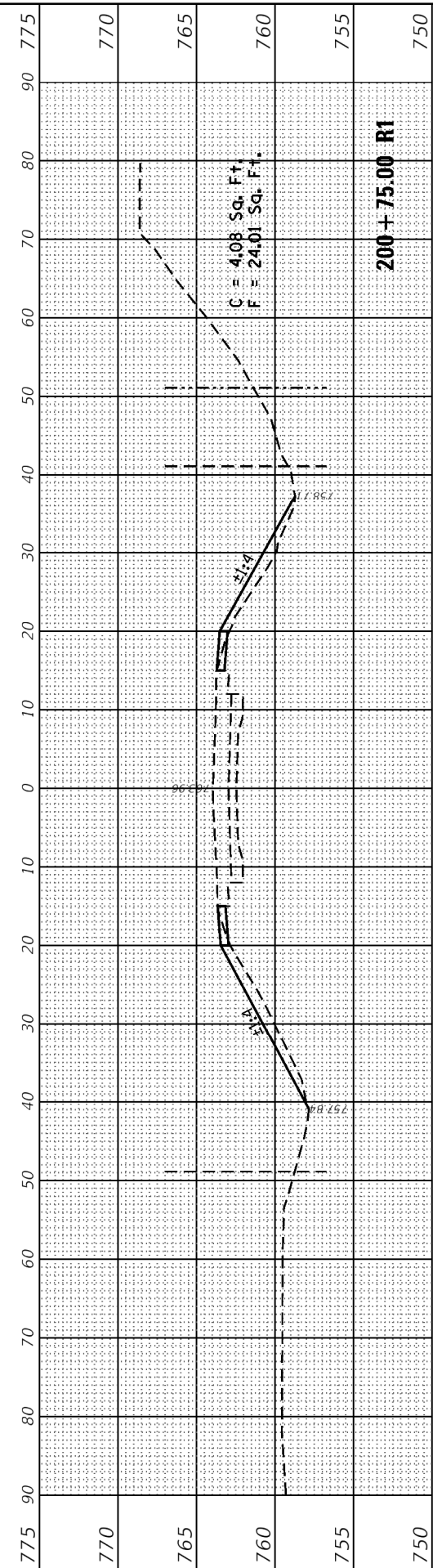
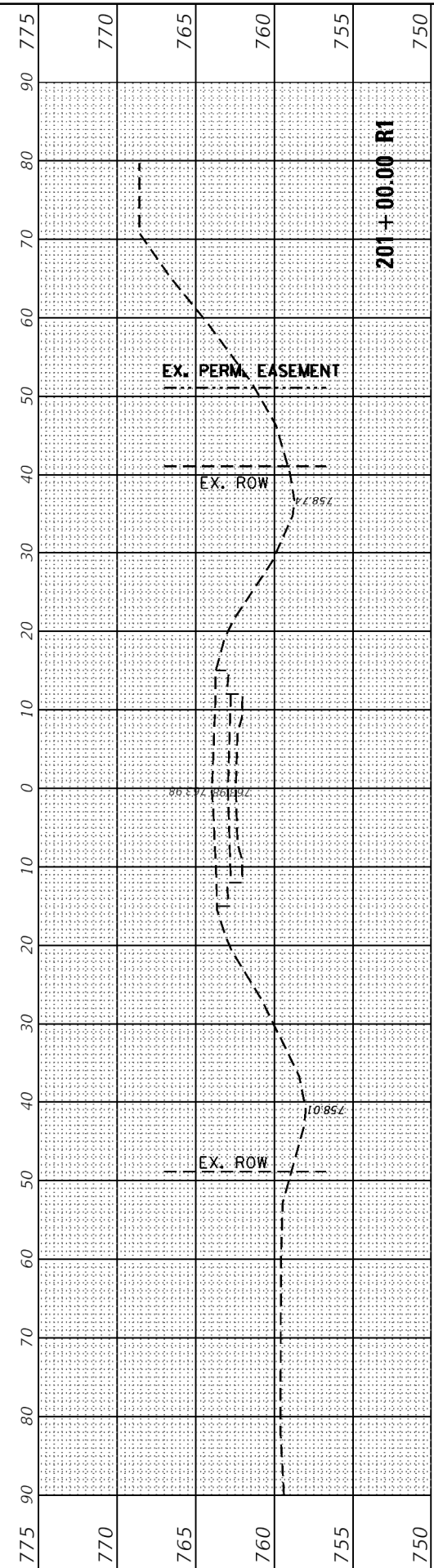
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 198+50.00 RI TO STA. 199+25.00 RI

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	42
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -
p:\1\084E\BID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 3\Projects\0366034\CADD\Drawings\0366034-topo.dgn		DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 200+50.00 R1 TO STA. 201+00.00 R1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	126C-1	FORD	44	44
CONTRACT NO. 66D34				
ILLINOIS FED. AID PROJECT				