

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
167	04-01225-00-BR	WILLIAMSON	16	2
STA	12+00	STA	18+50	
ROAD DIST.	ILLINOIS			
CONTRACT No. 99299				

SUMMARY OF QUANTITIES

X181-2A

CODE NO.	ITEM	UNITS	TOTAL
20100500	TREE REMOVAL, ACRES	ACRE	0.03
20200100	EARTH EXCAVATION	CU YD	444
20400800	FURNISHED EXCAVATION	CU YD	1637
25000200	SEEDING, CLASS 2	ACRE	0.2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18
25100630	EROSION CONTROL BLANKET	SQ YD	841
28000400	PERIMETER EROSION BARRIER	FOOT	616
28000500	INLET AND PIPE PROTECTION	EACH	1
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	520
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	58
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	30
50200100	STRUCTURE EXCAVATION	CU YD	268
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	17.4
50300225	CONCRETE STRUCTURES	CU YD	154.6
50300280	CONCRETE ENCASMENT	CU YD	4.4
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	3,780
50800105	REINFORCEMENT BARS	POUND	15,180
50900305	STEEL RAILING, TYPE T1	FOOT	280
51201400	FURNISHING STEEL PILES HP10x42	FOOT	175
51202305	DRIVING PILES	FOOT	175
51203400	TEST PILE STEEL HP10x42	EACH	1
51204650	PIZZE SHOES	EACH	7
51500100	NAME PLATES	EACH	1
54201060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	56
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	391
63000005	*STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	250.0
63100075	*TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
63100167	*TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

* SPECIALTY ITEMS

• Adjusted for Shrinkage (25% Shrinkage Assumed)
** Waste (+) or Shortage (-)

EARTH EXCAVATION						
Stage	Location	Earth Excavation	Excavation to be used in Embankment*	Embankment	Earthwork Balance**	
	From To	Cubic Yard	Cubic Yard	Cubic Yard	Cubic Yard	
TR 167	12+00.00 14+40.11	136	102	86	16	
TR 167	15+81.89 18+50.00	7	6	1,885	-1,879	
Slope Wall - East Abutment		301	226	0	226	
TOTAL		444	334	1,971	-1,637	

SCHEDULE OF QUANTITIES

EROSION CONTROL BLANKET				
TR 167	Sta.	Sta.	Side	SQ YD
	12+00.00	to 14+40.11	Lt	84.5
	12+00.00	to 14+40.11	Rt	94.7
	15+81.89	to 18+50.00	Lt	363.2
	15+81.89	to 18+50.00	Rt	298.6
Total				841

PERIMETER EROSION BARRIER				
TR 167	Sta.	Sta.	Side	FOOT
	14+00.00	to 14+40.11	Lt/Rt	80.2
	15+81.88	to 18+50.00	Lt/Rt	536.2
Total				616

TRAFFIC BARRIER TERMINAL, TYPE 5A				
TR 167	Sta.	Sta.	Side	EACH
	14+30.11	to 14+41.86	Rt	1
	14+25.71	to 14+37.46	Lt	1
	15+80.17	to 15+91.92	Lt	1
	15+83.95	to 15+96.16	Rt	1
Total				4

STEEL PLATE BEAM GUARD RAIL, TYPE B				
TR 167	Sta.	Sta.	Side	FOOT
	13+42.61	to 14+30.11	Rt	87.5
	13+88.21	to 14+25.71	Lt	37.5
	15+91.92	to 16+79.42	Lt	87.5
	15+96.16	to 16+33.66	Rt	37.5
Total				250.0

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)				
TR 167	Sta.	Sta.	Side	EACH
	12+92.61	to 13+42.61	Rt	1
	13+38.21	to 13+88.21	Lt	1
	15+33.66	to 13+83.66	Rt	1
	16+79.42	to 17+29.42	Lt	1
Total				4

INLET AND PIPE PROTECTION				
TR 167	Station	Side	Offset (ft)	EACH
	16+86.73	Rt	26.1	1
Total				1

TREE REMOVAL, ACRES				
TR 167	Sta.	Sta.	Side	ACRE
	12+18.83	to 13+85.20	Rt	0.01
	12+35.43	to 14+74.67	Lt	0.02
Total				0.03

SEEDING, CLASS 2				
TR 167	Sta.	Sta.	Side	ACRE
	12+00.00	to 14+40.11	Lt	0.03
	12+00.00	to 14+40.11	Rt	0.03
	15+81.89	to 18+50.00	Lt	0.08
	15+81.89	to 18+50.00	Rt	0.06
Total				0.2

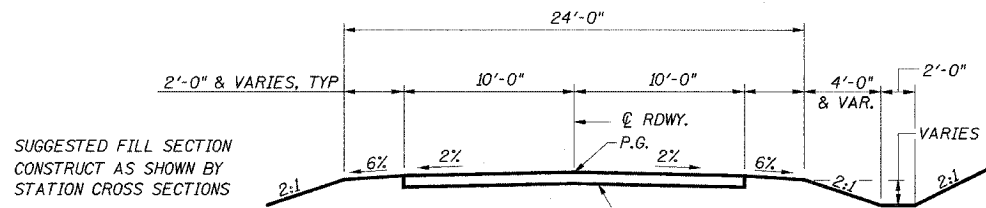
AGGREGATE SURFACE COURSE, TYPE A					
TR 167	Sta.	Sta.	Sq Yd	Depth (ft)	TON
	12+00.00	to 12+50.00	101.4	0.67	46.2
	12+50.00	to 14+40.11	422.5	0.67	192.5
	15+81.88	to 18+00.00	484.7	0.67	220.8
	18+00.00	to 18+50.00	105.6	0.67	48.1
Entrance					
			36.2	0.50	12.4
Total					520

GENERAL NOTES

- ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY SAID UTILITY ADJUSTMENTS.
- THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF FINISHED SURFACE.
- THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AS DETAILED IN SECTION 107 OF THE STANDARD SPECIFICATIONS, TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS/HER CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLE 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- ALL ELEVATIONS SHOWN REFER TO THE U.S.G.S. DATUM AT MEAN SEA LEVEL.
- THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONSTRUCT EROSION CONTROL BLANKET IN ACCORDANCE W/ ARTICLE 251 OF THE IDOT STANDARD SPECIFICATIONS. THE EROSION CONTROL BLANKET SHALL BE EXCELSIOR BLANKET.
- ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES AND SHRUBS FROM DAMAGE DUE TO HIS OPERATIONS.
- PAVEMENT REMOVAL (OIL & CHIP) WILL BE PAID FOR AS EARTH EXCAVATION AND WILL BE CONSIDERED AS UNSUITABLE MATERIAL.
- THE REMOVAL OF FENCES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT AND THE RE-ERECTION OF THE FENCES AT THE LOCATION SPECIFIED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

FACTORS USED FOR QUANTITY CALCULATIONS

HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	112 LBS/SQ YD/1" DEPTH
NITROGEN FERTILIZER NUTRIENT	90LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90LBS/ACRE



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN BY
STATION CROSS SECTIONS

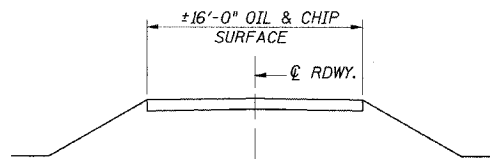
GAP PROPOSED CROSS SECTION FROM
STA. 14+40.11 TO STA. 15+81.88

SEE HIGHWAY STANDARD 630201
FOR SHOULDER TRANSITIONS

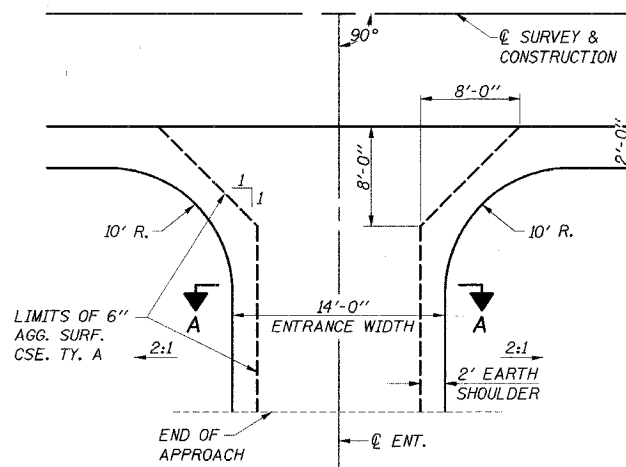
TYPICAL PROPOSED CROSS SECTION
STA. 12+00.00 TO STA. 18+50.00

ROAD CLASSIFICATION: LOCAL ROAD ADT 0-250
CURRENT ADT LESS THAN 150

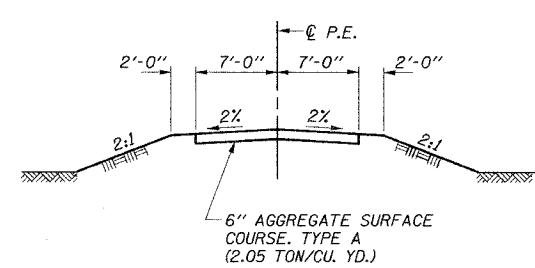
TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY
TO BE CONSTRUCTED FROM STA. 12+00 TO STA. 12+50 AND
FROM STA. 18+00 TO STA. 18+50.



EXISTING TYPICAL CROSS SECTION



PRIVATE ENTRANCE DETAIL
RT. STA. 18+00



SECTION A-A

SUMMARY & SCHEDULE OF QUANTITIES,
GENERAL NOTES AND TYPICAL SECTIONS
TR 167 OVER ICG RAILROAD
WILLIAMSON COUNTY
SECTION 04-01225-00-BR