

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2019-1	VARIOUS	6	1
ILLINOIS			CONTRACT NO. 74880	

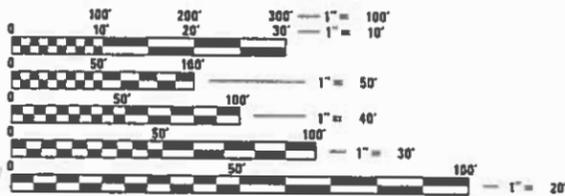
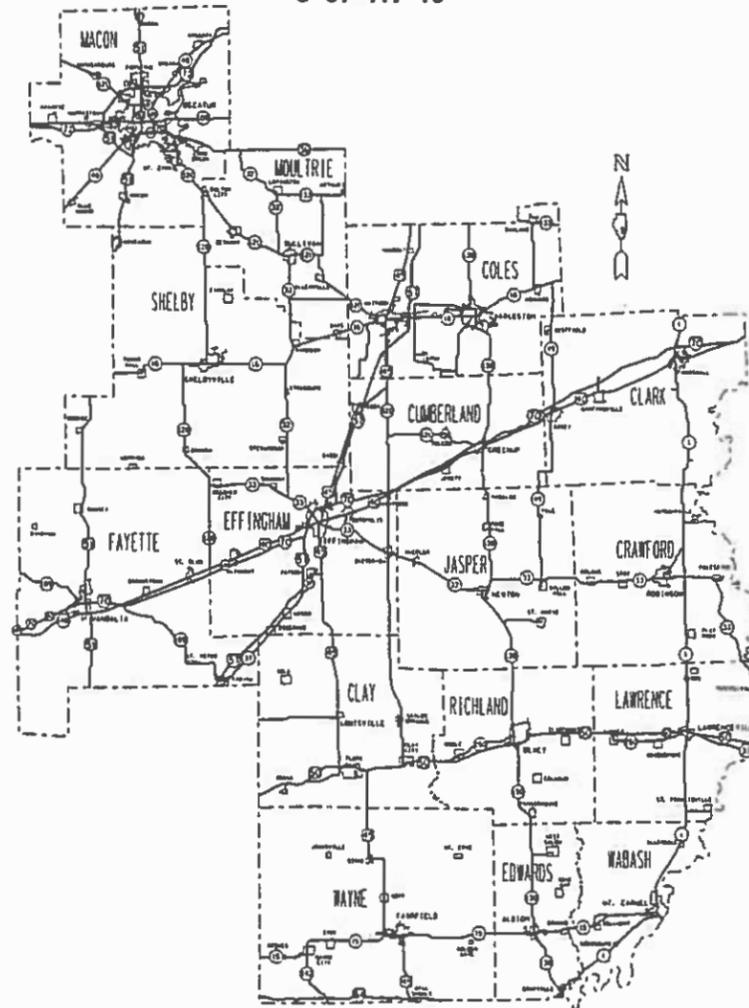
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

VARIOUS ROUTES
SECTION D7 GUARDRAIL 2019-1

GUARDRAIL MAINTENANCE
VARIOUS COUNTIES

C-97-117-18



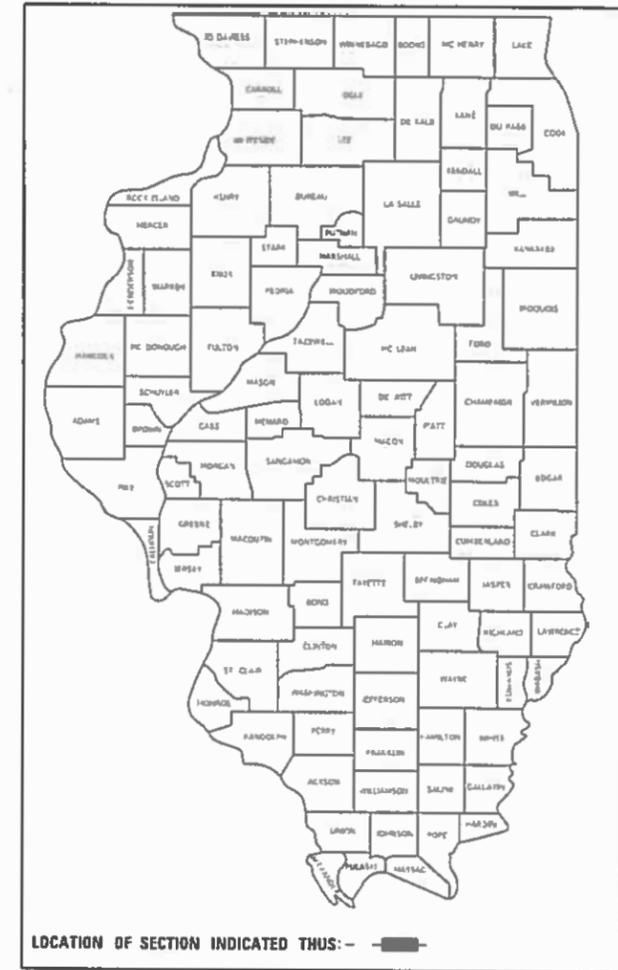
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER BRIAN LEWIS
PROJECT MANAGER

CONTRACT NO. 74880

D-97-067-18



LOCATION OF SECTION INDICATED THUS: — [thick black line] —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED FEBRUARY 5 2019
Jeffrey M. Smith REGIONAL ENGINEER
May 10 2019 A. Elk ENGINEER OF DESIGN AND ENVIRONMENT
May 10 2019 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN VARIOUS COUNTIES ALL LOCATED WITHIN REGION 4-DISTRICT 7. THE WORK INCLUDED IN THIS SECTION CONSISTS OF VARIOUS TYPES OF GUARDRAIL REPAIR AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

ALL WORK IS TO BE REPLACED IN KIND OR, AS INDICATED ON THE CONTRACT PLANS OR PROVISIONS.

THE LOCATIONS OF THE REPAIR AREAS WILL BE DETERMINED BY THE ENGINEER.

GUARDRAIL WORK SHALL INCLUDE ALIGNMENT AS NECESSARY TO RESTORE THE RAIL TO THE ORIGINAL CONDITIONS.

BEFORE ORDERING THE IMPACT ATTENUATORS, THE CONTRACTOR MUST CONTACT THE RESIDENT ENGINEER TO RECEIVE APPROVAL OF THE PROPOSED INSTALLATION.

REMOVAL OF DAMAGED MATERIALS SHALL INCLUDE DISMANTLING, LOADING, HAULING AND DISPOSAL. THE WORK SITE SHALL BE LEFT IN A SAFE AND ORDERLY CONDITION.

MATERIAL SHALL NOT BE LEFT ON OR WITHIN 18' OF THE ROADWAY DURING NON-WORKING HOURS.

TRAFFIC CONTROL SHALL BE INCLUDED IN THE BID PRICE FOR ITEMS IN THE SUMMARY OF QUANTITIES; APPROPRIATE STANDARDS ARE LISTED ON SHEET NO. 2.

THE LIMITS OF THE DAMAGED GUARDRAIL WILL BE MARKED WITH PAINT. THE REPLACEMENT PARTS AND THE QUANTITIES INDICATED ARE WITHIN THESE LIMITS AS MARKED.

REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS SHALL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.

GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (PH. 800-892-0123) OR FOR NON-MEMBER, THE UTILITY COMPANY DIRECTLY.

ANY WORK ORDER MAY BE CANCELLED AT THE ENGINEER'S DISCRETION.

SELF WEATHERING STEEL ITEMS (CORTEN) WILL BE PAID FOR THE SAME AS REGULAR ITEMS.

NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

THE CONTRACTOR IS ADVISED THAT THE GUARDRAIL PAY ITEMS INCLUDED IN THE PLANS MAY BE USED TO REPLACE/REPAIR SPBGR AND TRAFFIC BARRIER TERMINALS FOR THE MIDWEST GUARDRAIL SYSTEM AS SHOWN IN THE HIGHWAY STANDARDS AS WELL AS SPBGR AND TRAFFIC BARRIER TERMINALS INSTALLED PRIOR TO JAN. 1, 2007. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST GUARDRAIL SYSTEM STANDARD.

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS AND GENERAL NOTES
- 3-5 SUMMARY OF QUANTITIES
- 6 DETAIL OF IMPACT ATTENUATORS (NON-DIRECTIVE) TL 3

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 6:

- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630101-10 STRONG POST GUARDRAIL ATTACHED TO CULVERT
- 630106-02 LONG-SPAN GUARDRAIL OVER CULVERT
- 630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631006-08 TRAFFIC BARRIER TERMINAL, TYPE 1B
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631026-06 TRAFFIC BARRIER TERMINAL, TYPE 5
- 631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 631033-07 TRAFFIC BARRIER TERMINAL, TYPE 6B
- 636001-02 CABLE ROAD GUARD SINGLE STRAND
- 643001-02 SAND MODULE IMPACT ATTENUATORS
- 664001-02 CHAIN LINK FENCE
- 665001-02 WOVEN WIRE FENCE
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATION, 2L, 2W, DAY ONLY
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701406-12 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >=45 MPH TO 55 MPH
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS >=45 MPH
- 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <=40 MPH
- 701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
- 701456-05 PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701501-06 URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701606-10 URBAN SINGLE LANE CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES &
INDEX OF SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2019-1	VARIOUS	6	2
			CONTRACT NO. 74880	
		ILLINOIS	FED. AID PROJECT	

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STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 Cont. Maint.
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT	FOOT	40	25	15
	POSTS				
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT	FOOT	30	15	15
	POSTS				
63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT	FOOT	30	15	15
	POSTS				
63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT	FOOT	30	15	15
	POSTS				
63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	20	15	5
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	5	5	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1	
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	1	1	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	EACH	23	16	7
	TANGENT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 Cont. Maint.
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	EACH	1	1	
	FLARED				
63301210	REMOVE AND REERECT STEEL PLATE BEAM	FOOT	63	50	13
	GUARDRAIL, TYPE A				
63301215	REMOVE AND REERECT STEEL PLATE BEAM	FOOT	38	25	13
	GUARDRAIL, TYPE B				
63400105	GUARD POSTS	EACH	6	5	1
63600105	CABLE ROAD GUARD, SINGLE STRAND	FOOT	25	25	
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1	
66500105	WOVEN WIRE FENCE, 4'	FOOT	650	600	50
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	5	2
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	70	60	10
X0100002	GRADING AND SHAPING SPECIAL	SQ YD	250	200	50
X0325264	REPAIR IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2019-1	VARIOUS	6	3
			CONTRACT NO. 74880	
		ILLINOIS	FED. AID PROJECT	

100%
STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 Cont. Maint.
X6300210	GUARDRAIL BLOCKS	EACH	225	175	50
X6300215	RAIL ELEMENT PLATES	EACH	195	180	15
X6300217	RAIL ELEMENT PLATES (RADIUS)	EACH	6	5	1
X6300220	EXTRUDER HEAD	EACH	3	2	1
X6300225	SINGLE END SECTION	EACH	4	3	1
X6300231	STEEL POST, ATTACHED TO STRUCTURES	EACH	5	4	1
X6300235	WOOD POSTS	EACH	4	3	1
X6300236	STEEL POSTS 6'	EACH	150	125	25
X6300239	STEEL POSTS 9'	EACH	2	1	1
X6330310	REMOVE AND REINSTALL EXTRUDER HEAD	EACH	4	3	1
X6331110	STEEL POSTS, SPECIAL	EACH	2	1	1
X6431220	REMOVE AND REPLACE IMPACT ATTENUATOR SAND MODULE	EACH	25	20	5
X6640298	CHAIN LINK FENCE (SPECIAL)	FOOT	40	30	10

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SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021 MCHD	0021 Cont. Maint.
X6640308	CHAIN LINK GATES (SPECIAL)	EACH	1	1	
X6640502	CHAIN LINK FENCE POST	EACH	4	4	
Z0008760	EMERGENCY WORK CALL OUT	EACH	35	25	10
Z0012752	CONCRETE STRUCTURE REPAIR	CU FT	2	2	
Z0020210	PULL POST ARRANGEMENT	EACH	1	1	
Z0029658	REPAIR TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL - POST	EACH	4	3	1
Z0051400	REMOVING AND RESETTING POSTS	EACH	4	3	1
Z0052410	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	18	15	3
Z0052415	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)	EACH	4	4	
Z0052600	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
Z0052900	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 4	EACH	1	1	
Z0053000	REPAIR TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1	

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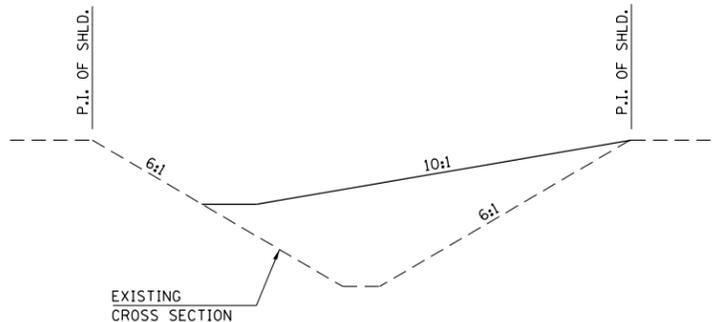
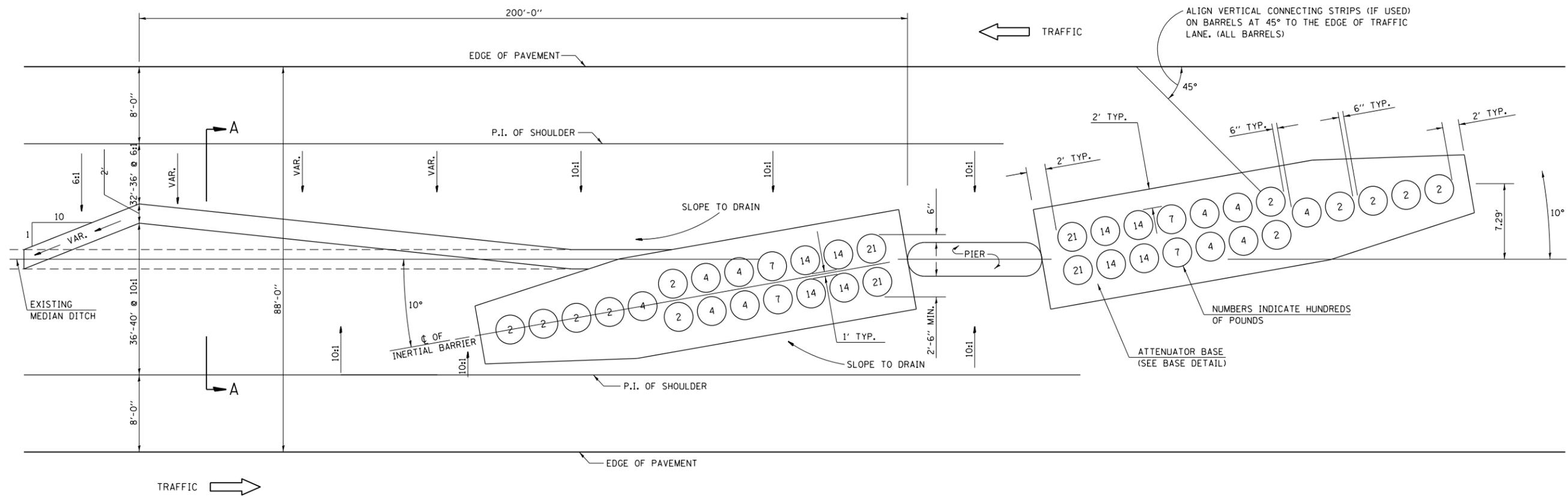
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

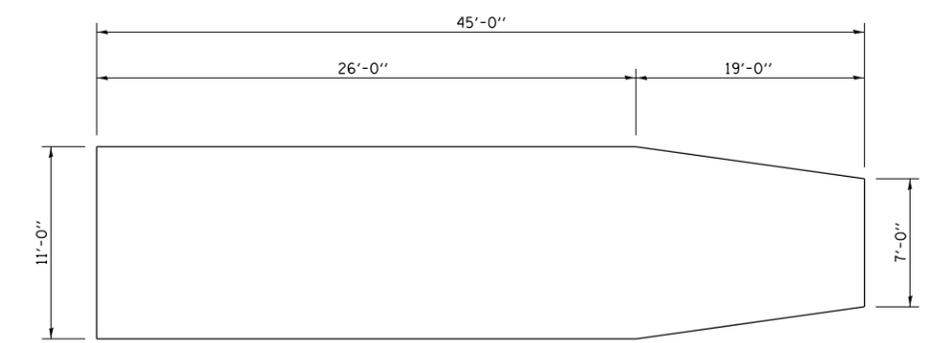
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2019-1	VARIOUS	6	4
			CONTRACT NO. 74880	
		ILLINOIS	FED. AID PROJECT	



SECTION A-A
GRADING AND SHAPING DETAIL



BASE DETAIL

GENERAL NOTES

1. ALL 10:1 SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 OR FLATTER.
2. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
3. THE LENGTH X WIDTH OF MODULE LAYOUT IS 41.0' x 7.0': 19 MODULES - 14,400 LBS.
4. IN AREAS OF 10:1 SLOPES PRECEDING THE ATTENUATOR IN THE MEDIAN INSTALLATION, FOUR OR MORE WOOD POSTS SHALL BE PLACED AT 5' INTERVALS IN THE MEDIAN ϕ . SEE SPECIAL PROVISIONS AND SCHEDULES.

NOTE:
This sheet applies ONLY when making partial repair of an existing sand barrel array that was installed according to this drawing.
Use Standard 643001 for a complete replacement.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. Z0030150

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SAND BARREL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D7 GUARDRAIL 2019-1	VARIOUS	6	6
			CONTRACT NO. 74880	
		ILLINOIS FED. AID PROJECT		