

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**IDOT/DNR STATEWIDE
BUFFALO ROCK STATE PARK**

**SECTION BUFFALO ROCK 2022
IDNR PROJECT 2-21-001
BUFFALO STATE PARK ROAD
LASALLE COUNTY
C-30-002-22**

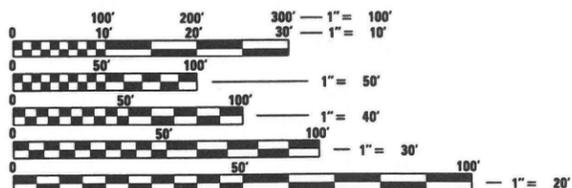
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	34	1
		ILLINOIS		CONTRACT NO. 46924

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- 5 SCHEDULE OF QUANTITIES
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- 27 GUARDRAIL AGGREGATE EROSION TREATMENTS
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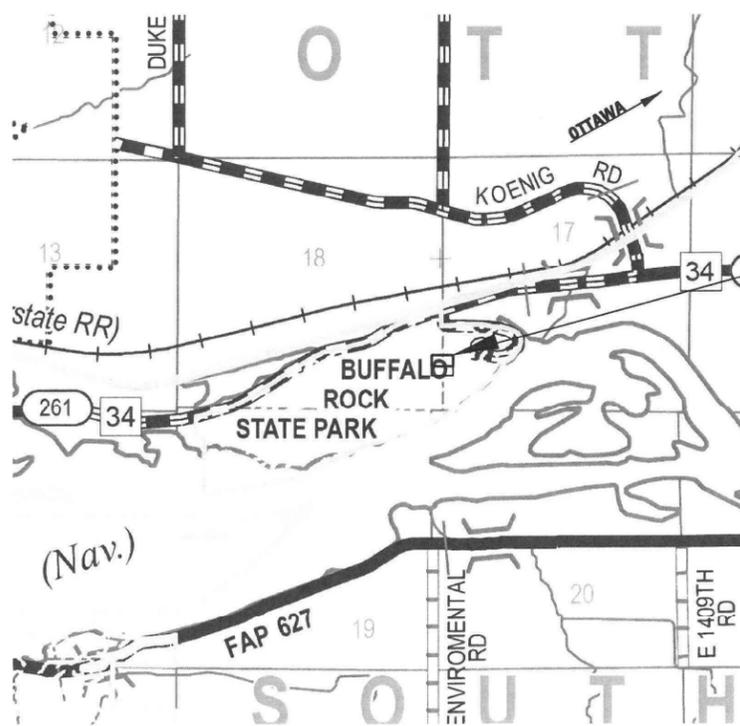
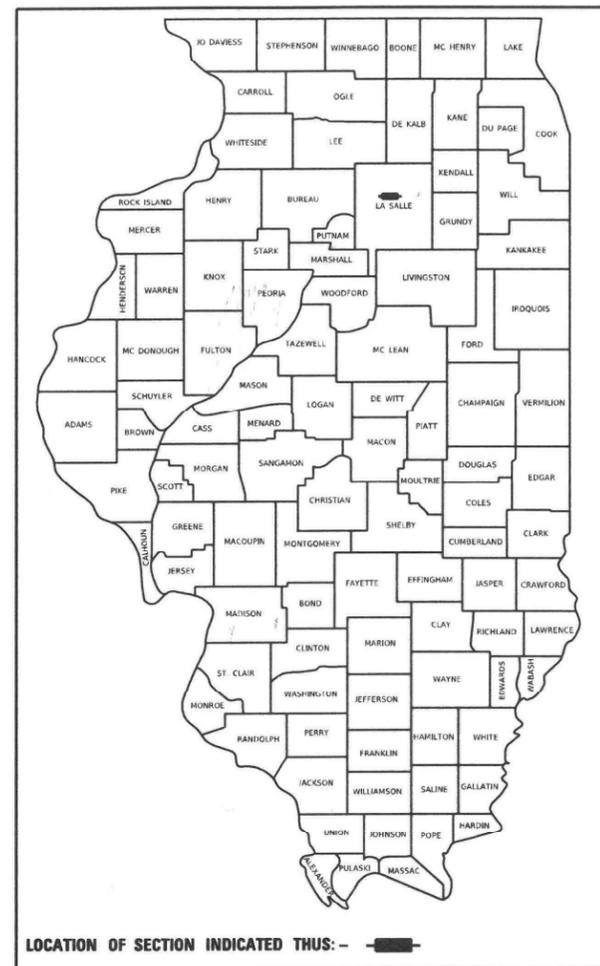
LIST OF STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND A FOOT
- 420001-09 PAVEMENT JOINTS
- 601001-05 PIPE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 606201-04 TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 631033-08 TRAFFIC BARRIER TERMINAL, TYPE 6B
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-08 TRAFFIC CONTROL DEVICES
- BLR17-4 TRAFFIC CONTROL DEVICES - DAY LABOR CONSTRUCTION
- BLR21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



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 LOCATION



DATE SIGNED : 08/19/2021
LIC. EXP. DATE : 11/30/2021
TERRA ENGINEERING, LTD



GROSS LENGTH = 235 FT. = 0.045 MILE
NET LENGTH = 235 FT. = 0.045 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

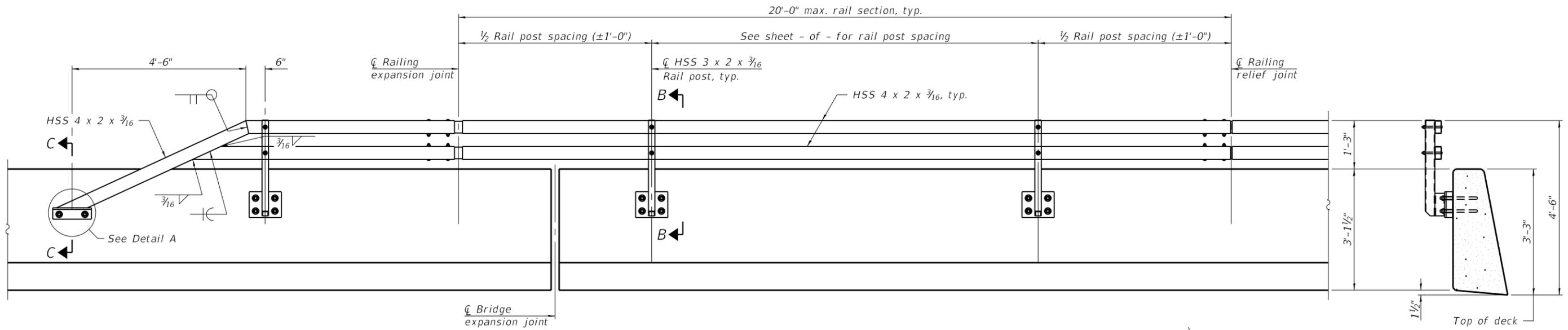
SUBMITTED OCT 1 20 21

REGIONAL ENGINEER

October 1 20 21
ENGINEER OF DESIGN AND ENVIRONMENT

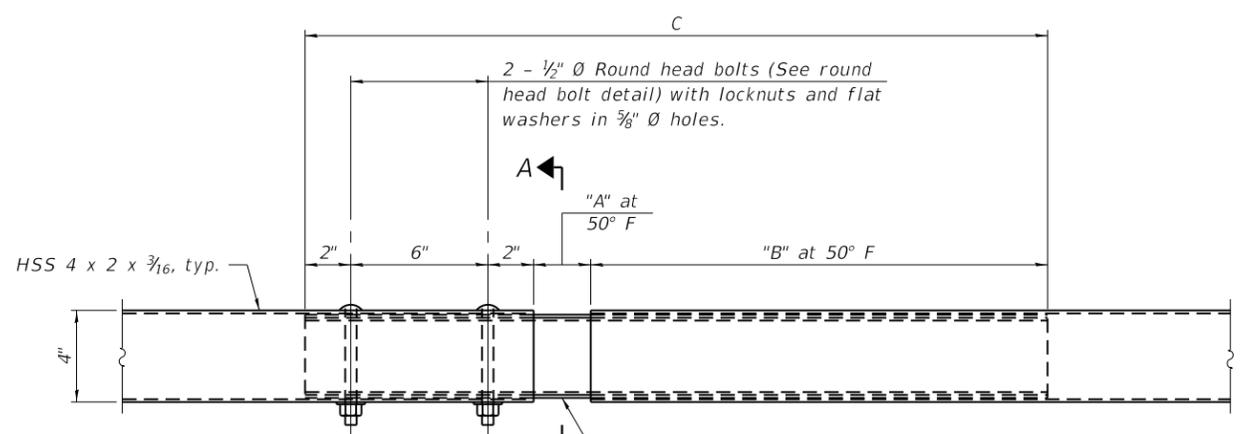
October 1 20 21
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

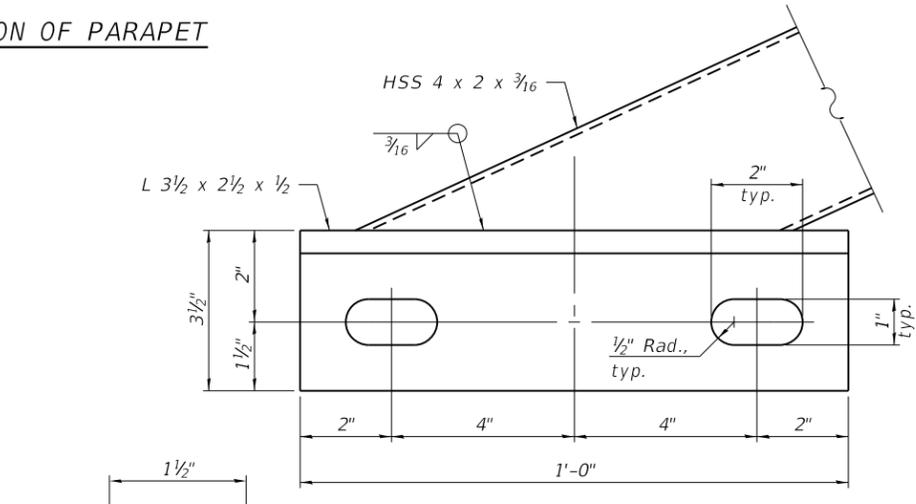


SECTION THRU PARAPET

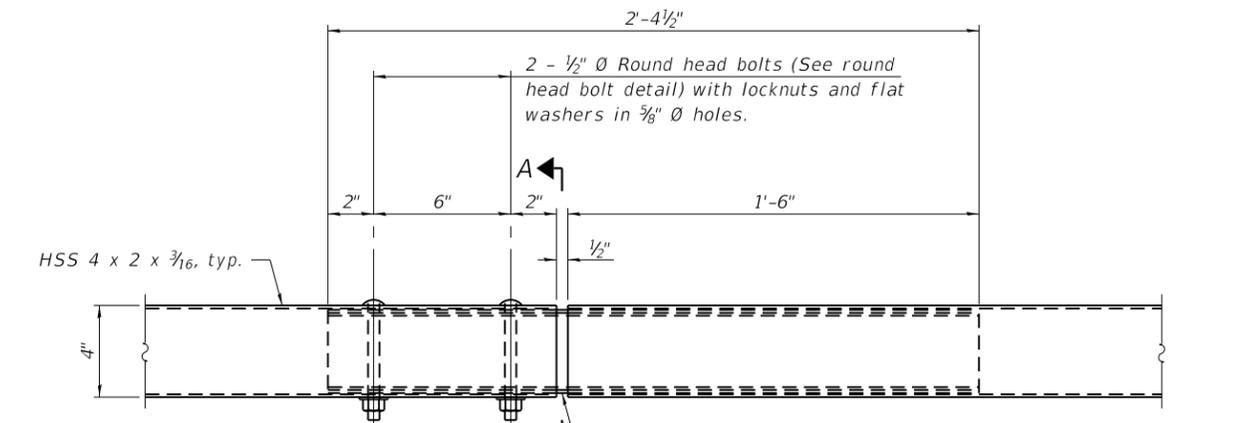
OUTSIDE ELEVATION OF PARAPET



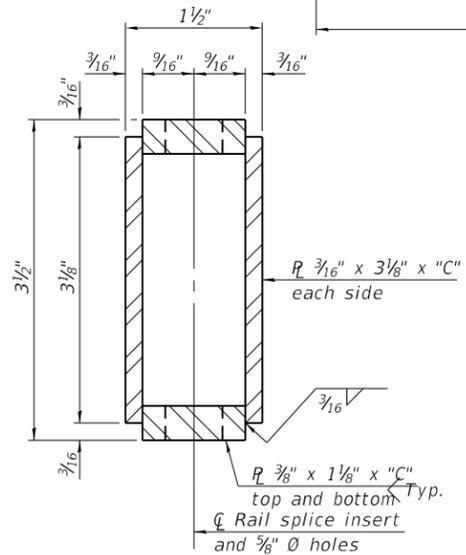
RAIL SPLICE ELEVATION
(At railing expansion joint)



DETAIL A
(Bolts omitted for clarity)



RAIL SPLICE ELEVATION
(At railing relief joint)



SECTION A-A

Notes:
 This work shall be according to Section 509 of the Standard Specifications except as noted.
 Rail posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Railing expansion joints shall be provided between any two (2) posts which span a bridge expansion joint.
 Railing relief joints shall be placed between rail sections that do not span over an expansion joint.
 All HSS tubing, post and railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 Threaded rods shall be ASTM F1554, Grade 36.
 This work will be paid for at the contract unit price per foot for Bicycle Railing Parapet.

SPLICE DIMENSIONS

Location	T	A	B	C
Over Strip Seal Jt.	≤4"	2 1/2"	1'-8"	2'-8 1/2"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	1'-10 3/4"	3'-2 1/4"
Over Finger or Modular Jt.	≤15"	8 1/4"	2'-1 1/2"	3'-7 3/4"

T = ; total movement along centerline of roadway at expansion joint.

RAILING CRITERIA

NCHRP 350 Test Level	2
Railing Weight (plf)	25
Post Spacing Range	7'-0" - 10'-0"

R-39 10-12-2021

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing, Parapet	Foot	-

(Sheet 1 of 2)

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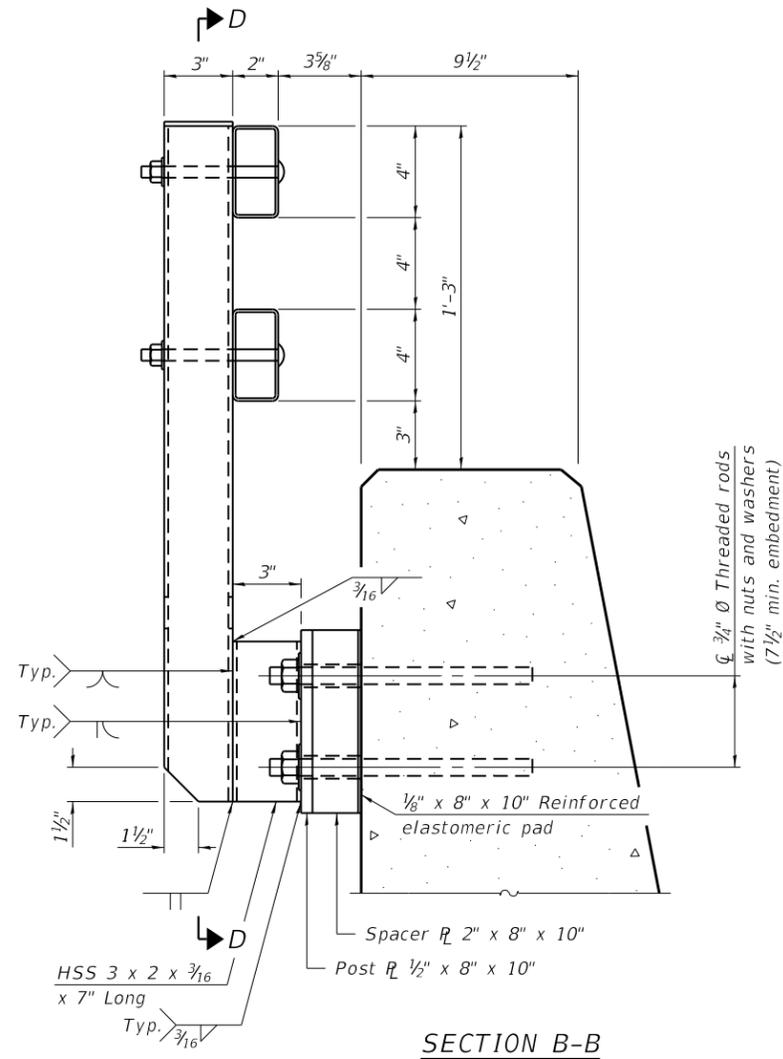
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DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING, PARAPET

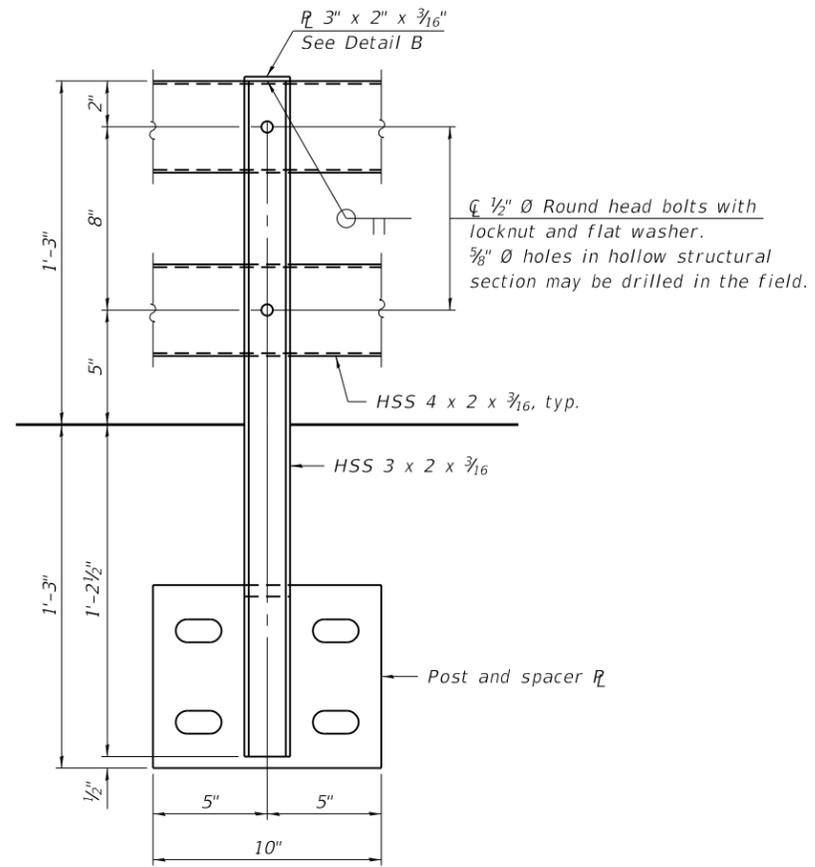
SHEET 1 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	22A
CONTRACT NO. 46924				

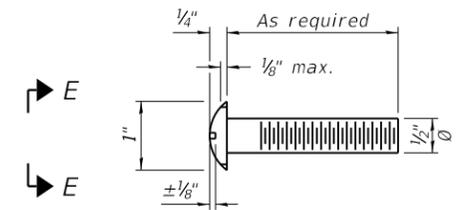
ILLINOIS FED. AID PROJECT
ADDED SHEET 10/26/21



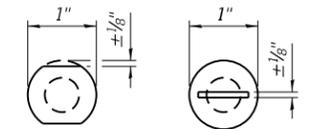
SECTION B-B



SECTION D-D
(Bolts omitted for clarity)

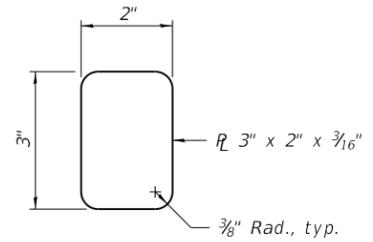


ROUND HEAD BOLT DETAIL

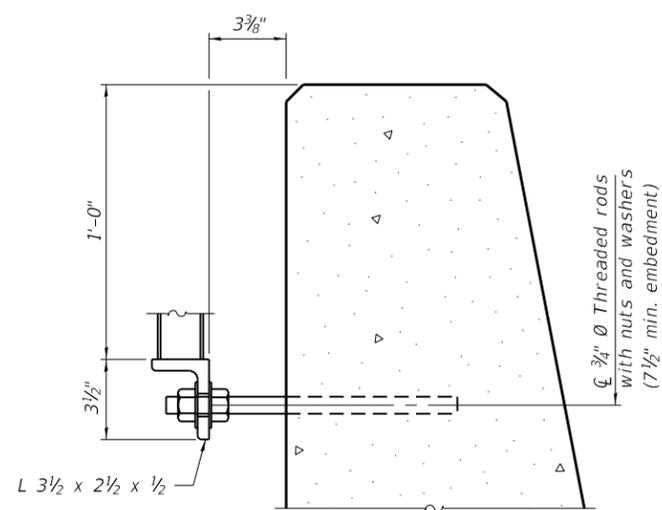


Without slot or recess With slot (shown) or approved recess

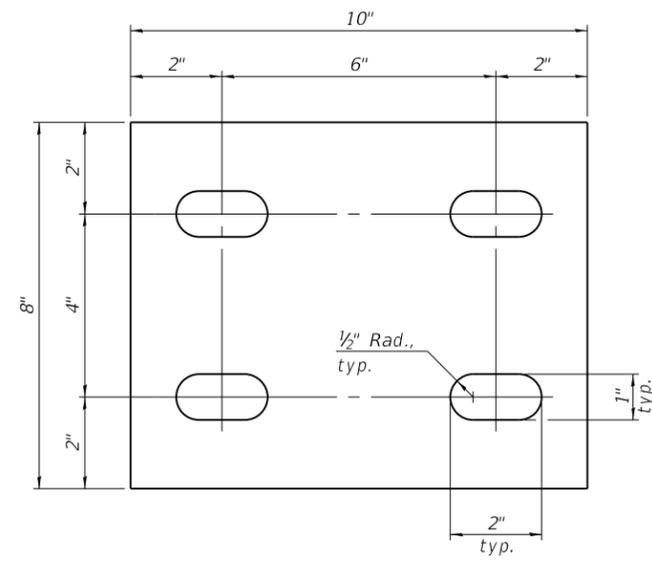
VIEW E-E



DETAIL B



SECTION C-C



POST AND SPACER P

R-39 10-12-2021

(Sheet 2 of 2)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING, PARAPET

SHEET 2 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BR 2021	LASALLE	32	22B
CONTRACT NO. 46924				

ILLINOIS FED. AID PROJECT
ADDED SHEET 10/26/21