General Notes:

It is the intent of this design to construct a ____ x ____ x ____ reinforced concrete pedestrian tunnel with pedestrain headwalls at Sta. _____ skewed 0°. The RCB culvert sections are designed for HL-93 live load and earth fills of feet.

Utility companies and municipalities whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Contractor of the construction starting date.

Excess Class 20 excavation material suitable for backfilling shall be stockpiled at the construction site, as directed by the Engineer.

Faint lines on plans indicate existing structure,

Bell joints shall be placed on the up-grade end of the barrel sections.

Notes to detailers:

If anti-graffiti coating is intended for project, include Bid Item 2599-9999018 Anti-Graffiti Coating (SY) and list the SP title in the Estimate Reference Information. The attached SP should be turned in to Specifications' SP turn-in folder at least one week prior to letting.

If colored sealer coating is intended for project, include Bid Item 2403-7303000 Structural Concrete Coating (SY) and list the DS title in the Estimate Reference Information. The attached DS should be turned in to Specifications' DS turn-in folder at least one week prior to letting.

ADA (and FHWA) allows up to a 5% grade on sidewalks without handrails and level landings. Beyond 5% and up to 8.33%, handrails and level landings would be required at 30'-0" maximum intervals.

Designer to evaluate water drainage in pedestrian tunnel. If profile is very flat or other circumstances exist that may lead to ponding within tunnel, Designer should consider adding a crown to the floor or pitching the floor to one side to minimize ponding in travelway.

Designer to provide longitudinal subdrains at base of pedestrian tunnel. Provide appropriate details to show the outletting of subdrains based on site conditions.

If concrete form liner and rustications are applied to wingwalls, add notes to "Structural Concrete (RCB Culvert)" bid item estimate reference information stating costs associated with form liner, rustications and mockup panel are included with bid item.

Standards: For details to the followin

Summary of Reinforcing Steel				
Location	Quantity	Total		
Headwall 0° Skew	2 at ?	?		
Std. Barrel Sections	? at ?	?		
Barrel End Section				
5r1 Dowel Bars				
Total (LB)				

Concrete Placement Quantities					
Location	Footing	Walls	Slab	Total	
Headwall 0° Skew	2 at	2 at	* 2 at	?	
Std. Barrel Sections	? at ?	? at ?	? at ?	?	
Barrel End Section					
Total (CY)	?	?	?	?	
* Includes parapet and top of wingwall.					

Shop Drawing Submittals

Shop drawings shall be submitted for the following items shown in the table below. (Note additional shop drawings may be required in accordance with Article 1105.03, of the Standard Specifications.)

Submittal requirements for shop drawings should be in accordance with Article 1105.03, of the Standard Specifications, for Highway and Bridge Construction of the Iowa Department of Transportation.

Shop drawings shall be submitted with the following naming convention: (Paren) County DesignNumber SubmittalDescription.pdf

Example: (090)_Blackhawk_Design915_DeckDrains.pdf

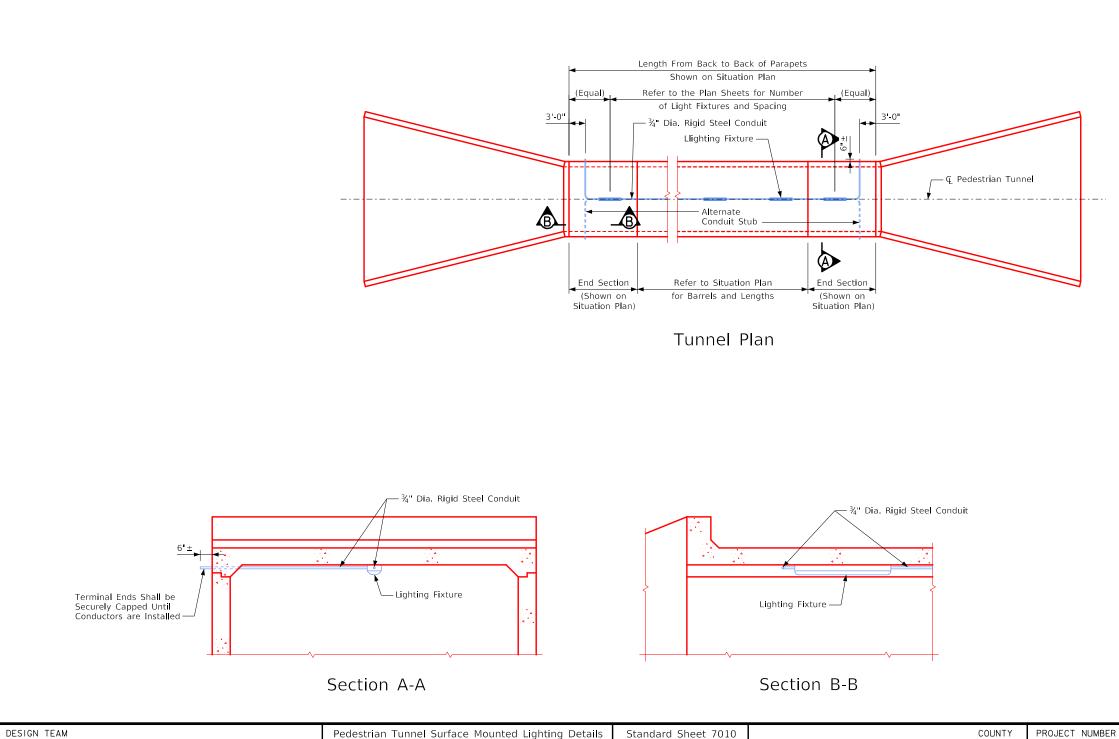
1	Steel Pipe Pedestrian Hand Railing

08-2020

and notes not shown refer ng Iowa D.O.T Highway Standards:			
Standard	Issued	Revised	
	?	?	

General Notes & Quantities

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION DESIGN SHEET NO. ____ OF ____ FILE NO. DESIGN NO.



8/3/2020 5:02:30 PM

bkloss

ISSUED 08-2020

SHEET

THIS

7010

DGN

STANDARDS.

TUNNEL

PEDEST

SIGNED

LRF

ISH

General Lighting Notes:

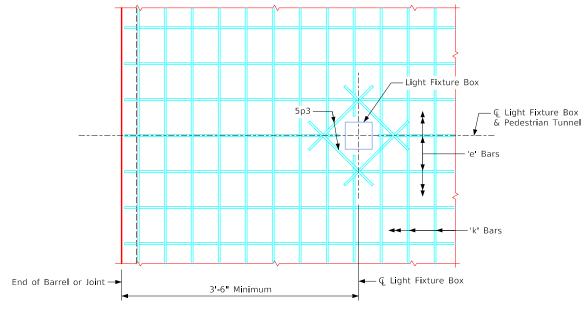
- 1. Construction shall conform to Section 2523 of the Standard Specifications as applicable to the project.
- 2. See design plans for project specific details (electrical service routing, handhole locations, control cabinet details, lighting fixture specification, conductor
- requirements, etc.) 3. Secure conduit and lighting fixtures to concrete with
- post-installed anchors. Type and size to be approved by the Engineer.

Lighting Details

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION DESIGN SHEET NO. FILE NO. DESIGN NO. _ 0F ____

Light Fixture & Junction Box Reinf. Bar List					
Bar	Location	Shape	No.	Length	Weight
5p3 Slab, Bottom, at Light Fixture Box, (One Box)			*4	2'-6"	*10
5p4 Wingwall, F.F., at Junction Box (One Box)			*4	3'-3"	*14
5p5	5p5 Front Face of Parapet (One Box)		*4	1'-4"	*6

Sheet in the design plans.

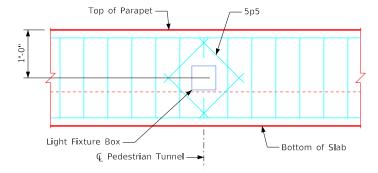


Part Plan View Bottom Slab at Light Fixture Box

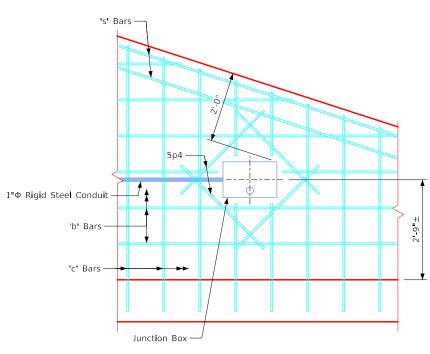
Notes:

Cut e1 and k1 bars in bottom face of barrel slab as necessary to clear light fixture box.

Provide 2 inches clear from end of bars and light fixture box.



Parapet Location of Light Fixture Box (Showing Front Face of Parapet)



Detail A of Junction Box Reinforcing at Wingwall

Notes:

Cut 'b' and 'c' bars in front face of wingwall as necessary to clear junction box.

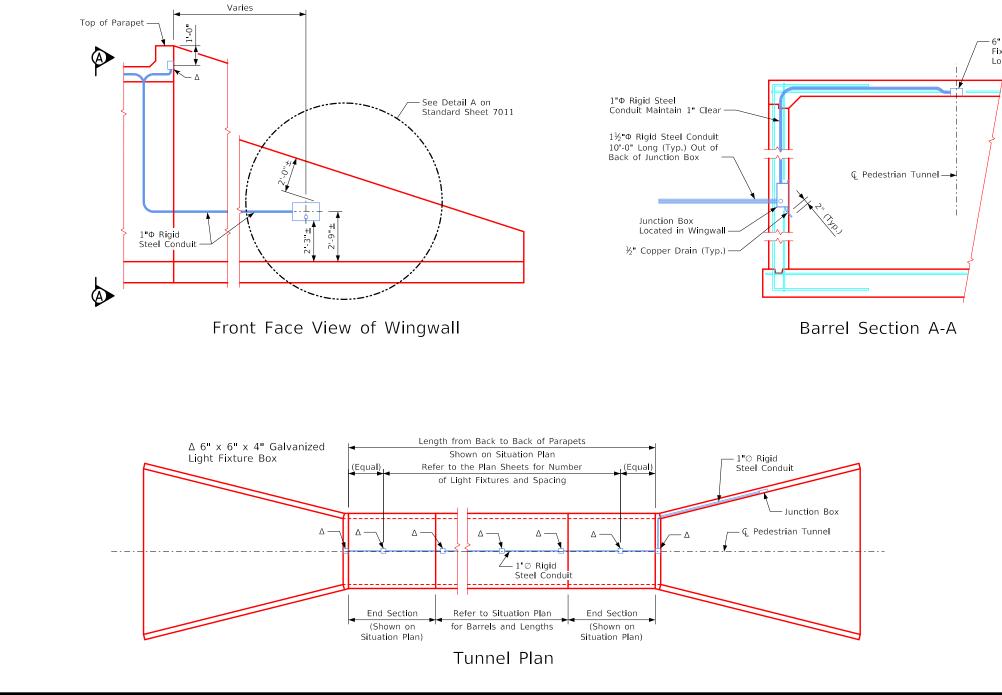
Provide 2 inches clear from end of bars and junction box.

bkloss

* Quantities shown are for the number of boxes listed in this table. Actual quantities needed are tabulated on the "General Notes"

Lighting Details

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION DESIGN SHEET NO. FILE NO. DESIGN NO. __ 0F ____



ISSUED 08-2020

SHEET

THIS

7012

DGN

STANDARDS.

LUNNEL

PEDEST

SIGNED

LRFD

ISH

bkloss

Pedestrian Tunnel Recessed Lighting DetailsStandard Sheet 7012W:\Highway\Bridge\Standards\Pedestrian Tunnels\EnglishPedestrianTunnel.dgn701211x17_pdf.pltcfg

General Lighting Notes:

If recessed light fixtures selected for the project include accomodations for wiring connections within the fixture housing, conduit stub-outs without 6"x6"x4" fixture box may be used at light fixture locations.

Note: Junction boxes shall be LI-104 Type 1.

- 6" x 6" x 4" Galvanized Fixture Boxes (Typ.) Located in Bottom of Slab

Lighting Details

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION DESIGN SHEET NO. _____ OF _____ FILE NO. _____ DESIGN NO. _____