

Install two (2) #8 USE-2 conductors in 4" (inch) metallic conduit to wall pack luminaire support conduit on 6' (feet)-0" (inch) max hangers, hanger rods and concrete anchors for straight conduit runs or with clamps and concrete anchors for runs with field bends.

Fasten underpass luminaire mounting brackets as shown on detail.

LED wall pack luminaires shall have a housing of aluminum alloy casting. Luminaires shall provide a minimum of 4000 lumens, a correlated color temperature of 4000k, a color rendering index of 70 or greater, and a minimum efficacy of 60 lumens per watt. Luminaires shall be dimmable, full cutoff, have a BUG rating of b3u3g3 or lower, and be rated for a minimum lifetime (L70) of 100,000 hours. The light distribution shall be Type III. The LED driver shall be rated for a minimum life of 100,000 hours.

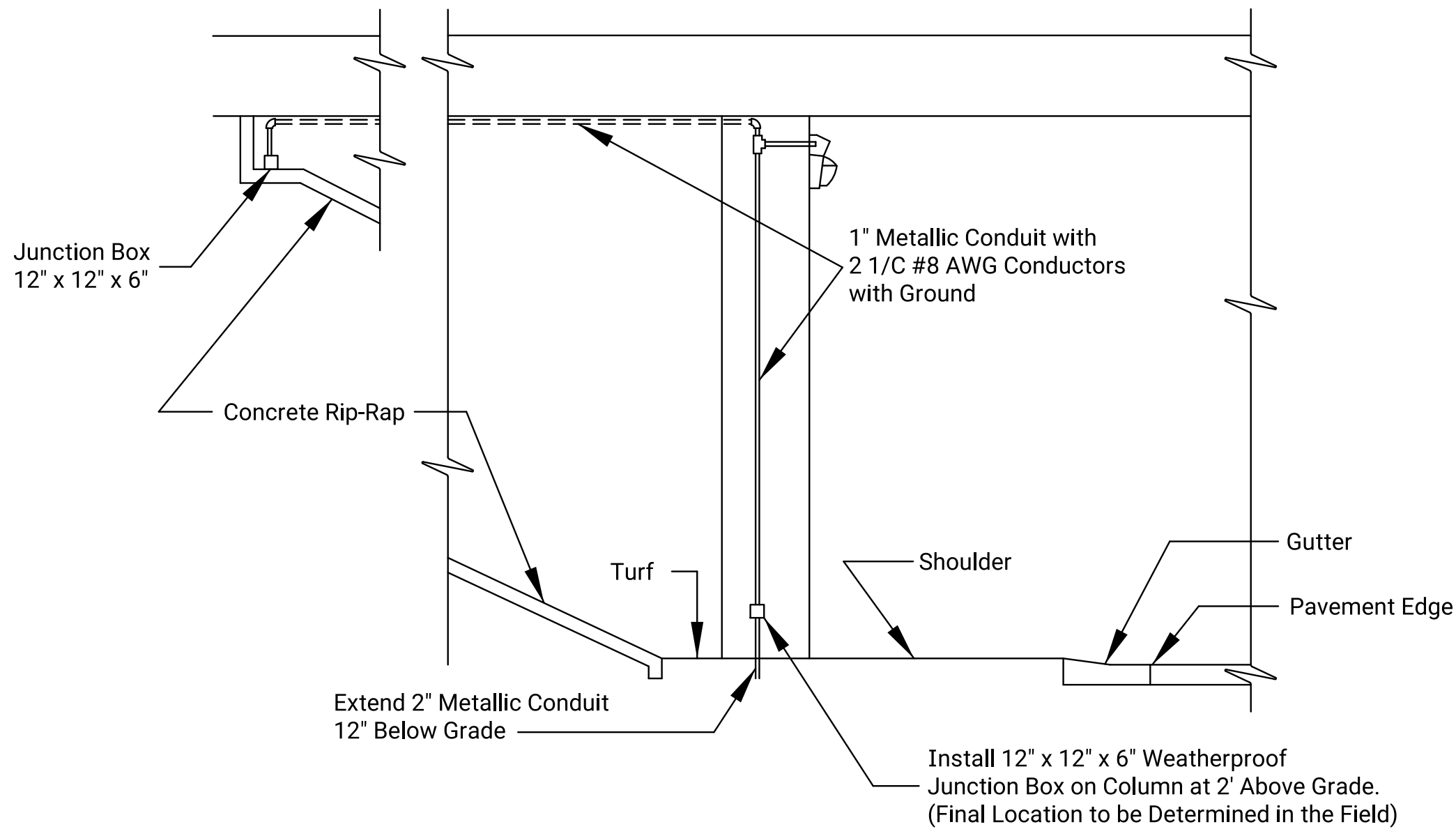
High pressure sodium wall pack luminaires with built in regulator ballast with 250 watt high pressure sodium lamp for 480 volt secondary circuit.

WEDGE TYPE STUD BOLT ANCHORS: The contractor shall install two 3/8" (inch) x 3" (inch) wedge type stud bolt anchors for conduit clamps. The anchors shall be wedge type made from carbon steel meeting AISI 12L14 steel. The minimum embedded depth shall be 1 3/4" (inch).

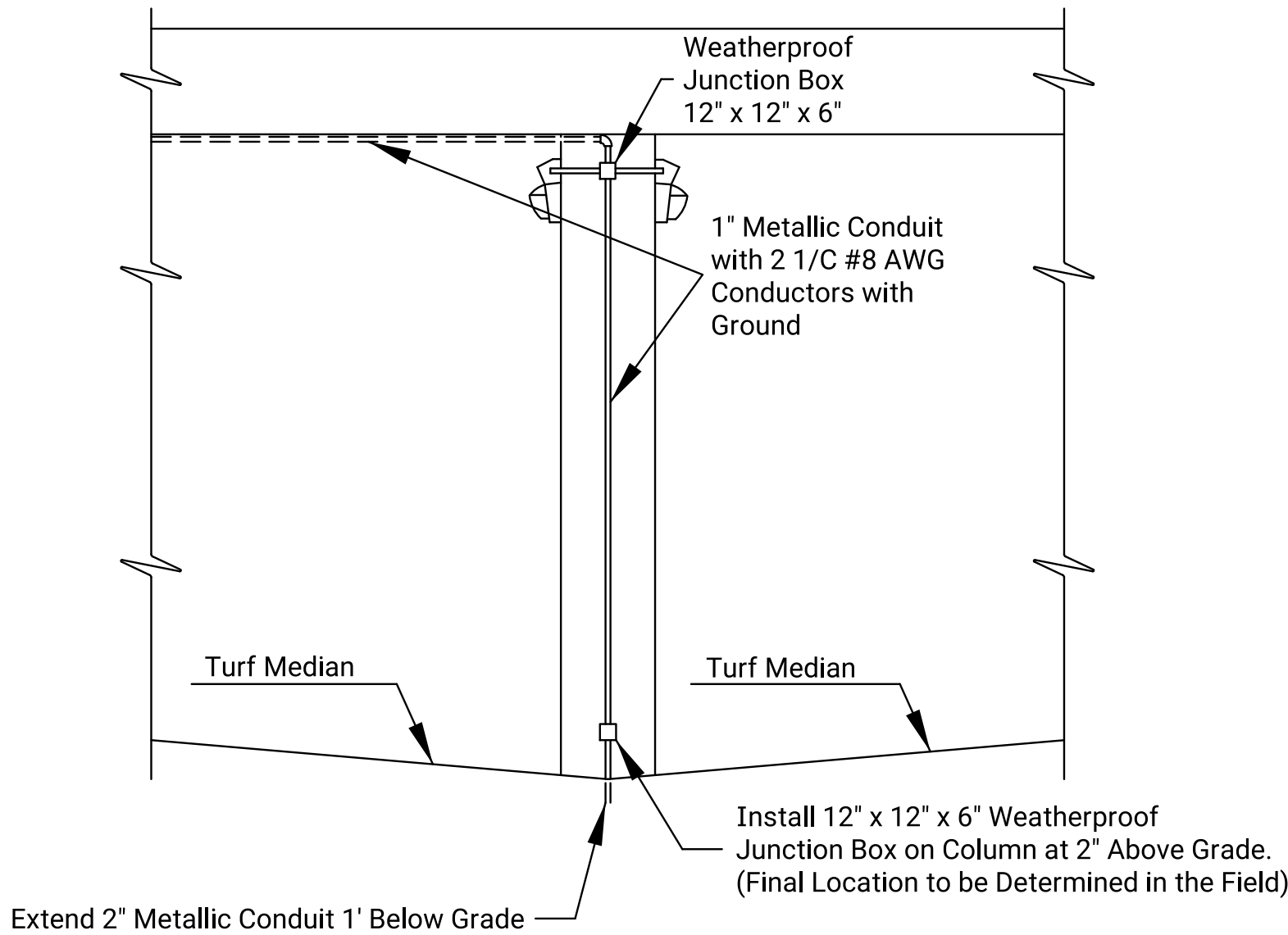
CONDUIT CLAMPS WITH CLAMP BACKS: The contractor shall install 1" (inch) conduit clamps with a compatible clamp back. Clamps shall be heavy duty steel to secure the 1" (inch) metallic conduit to structure. Conduit clamps are to be spaced at 6' (feet) intervals.

JUNCTION BOX: Junction box shall be made of 14 gauge sheet metal (steel) with welded seams, knockouts and weatherproof screw cover. Boxes shall be hot dipped galvanized in accordance with ASTM A-123 or electroplated with a minimum thickness of 0.4 mil after fabrication. The surface of the junction box which comes in contact with concrete shall be covered with aluminum colored butyl rubber sealant (caulking compound).

250 WATT UNDERDECK LUMINAIRE: 250 watt underdeck luminaire shall have a single piece cast aluminum housing with built-in regulator ballast and prismatic light controlling refractor made of shock resisting glass.



Summary of Underdeck Lighting System Quantities		
Item	Unit	Quantity
Weatherproof Junction Box (12"x12"x6")	Each	
1" Metallic Conduit	Inch	
2" Metallic Conduit	Inch	
#8 AWG 1/C Secondary with Ground	Feet	
3/8" x 3" Wedge Type Anchor Bolts	Each	
2" Conduit Clamps with Clamp Backs	Each	
250 Watt High Pressure Sodium Wall Pack	Each	
250 Watt, 16,000 Lumen, Clear High Pressure Soduim, 24,000 Hour Lamp	Each	
LED Wall Pack	Each	
4000 Lumen, LED, 60 Lumens Per Watt, Bug Rating 3 or Less, 100,000 Hour Lamp	Each	



STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		0	0	

01	02-22-16	Added LED Language			C.E.	B.D.G.
NO.	DATE	REVISIONS			BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION						
UNDERDECK LIGHTING DETAIL AND QUANTITIES						
TE204						
FHWA APPROVAL		08-06-03		APP'D.		Linda G. Voss
DESIGNED	V.H.	DETAILED	V.H.	QUANTITIES	TRACED	
DESIGN CK.	C.A.L.	DETAIL CK.	C.A.L.	QUAN.CK.	TRACE CK.	