

ADDENDUM NO. 4
FOR
INTERSECTION CAPACITY IMPROVEMENTS (FY 23)
26-53ITB

ISSUED
April 28, 2026



CITY OF MCKINNEY CONTACT

Erika Roberts
Contracts & Construction Supervisor
401 E. Virginia Street
McKinney, Texas 75069
eroberts1@mckinneytexas.org

The City of McKinney exclusively uses [Bonfire](#) for the notification and dissemination of all solicitations. The receipt of solicitations through any other means may result in your receipt of incomplete specifications and/or addendums which could ultimately render your bid/proposal non-compliant. The City of McKinney accepts no responsibility for the receipt and/or notification of solicitations through any other means.

RECEIPT OF ADDENDUM NO. 4 MUST BE ACKNOWLEDGED IN SUBMITTAL

ADDENDUM NO. 4

INTERSECTION CAPACITY IMPROVEMENTS (FY 23) 26-53ITB

This Addendum is hereby made a part of the Invitation to Bid documents to the same extent as if it were originally included therein. The following clarifications shall be made to the Invitation to Bid and shall become a part of, and attached to, the Invitation to Bid documents.

Failure to acknowledge the addendum may result in your submission being considered non-responsive.

Modifications to Bid Documents

The following has been revised to reflect changes to the existing US 380 Illumination conditions due to TxDOT Project CSJ 0135-02-071 construction being ahead of schedule.

1. The following revised sheets replace the corresponding sheets in the plans: Sheets 47, 48, 49, 51, 52, 53, 54, 55, 58, and 59 revised.
2. Plan sheets: Sheets 179 to 185 added to plans.
3. The revised bid schedule pages (1 to 13) to replace the existing project bid schedule. Bid form: Bid Items 226, 307, 403, 712, 713, 714, 716, 717, 718, 719, 720, and 721 updated. Bid items 802, 803, 804 added.
4. Project Manual: Sheet 78 revised.

END OF ADDENDUM NO. 4

NO.	DATE	DESCRIPTION
001	04/27/2024	APPROXIMATE 1:00 P.M. 1:00 P.M. 1:00 P.M.
002		
003		
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INTERSECTION CAPACITY IMPROVEMENTS
 (FY 23) CIP ST303
 US 380 & LAKE FOREST DR
 REMOVAL PLAN
 STA. -1+61 TO STA. 0+00 (EB & WB)



CobbFendley
 TRENDS Firm Registration No. 274
 Land Surveying Firm Registration No. 10046700
 2801 Network Boulevard, Suite 800
 Frisco, Texas 75034
 972.335.2214 | fax 972.335.3202 | www.cobbhendley.com

III WARNING III
 EXISTING UTILITIES ARE SHOWN ON THIS PLAN. CONTRACTORS SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE PROVIDER PRIOR TO START OF CONSTRUCTION AND SHALL DISCOVERED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING UTILITIES ARE DAMAGED. THE CONTRACTOR SHALL REPAIR THEM AT THEIR OWN EXPENSE.



- LEGEND**
- CONC. PAVT REMOVAL
 - CONC. SIDEWALK REMOVAL
 - MEDIAN / PARKWAY REMOVAL
 - DISTURBED AREA

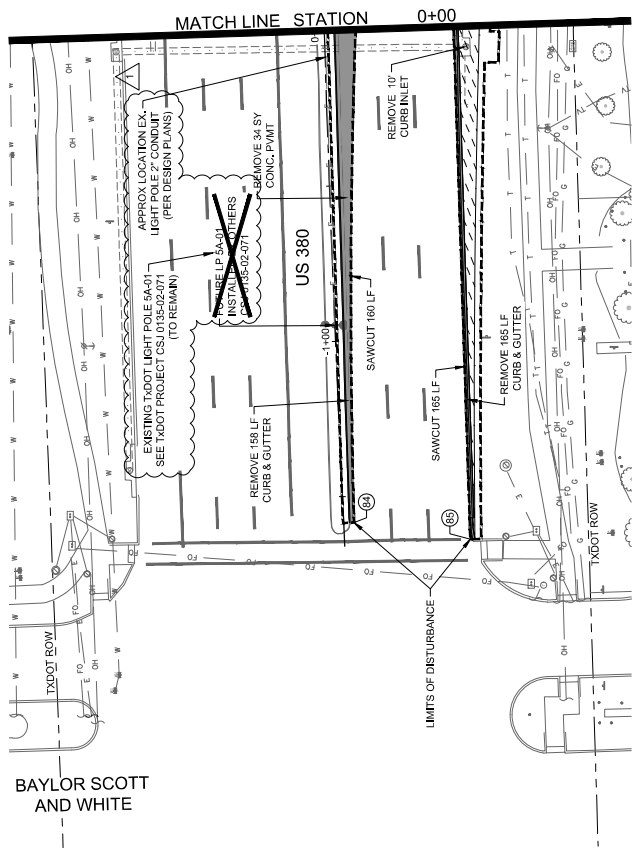
- NOTES:**
- REMOVAL OF EXISTING IRRIGATION MAINS AND ALL OTHER APPURTENANCES RELATED TO IRRIGATION WILL BE SUBSIDIARY. (NO PAY ITEM)
 - CONTRACTOR SHALL SAWCUT AND LEAVE IN PLACE A 10X12 CONCRETE WEDGE OR FILL 10'X10' CORNER WITH HOT MIX ASPHALT. ALL EXISTING CURBS AND GUTTERS IN LANE, MATERIAL WILL REMAIN IN PLACE UNTIL TIME TO PREP SUBGRADE AND POUR CONCRETE. (NO PAY ITEM).
 - EXISTING INLETS TO BE RELOCATED SHALL BE CAPPED AND USED AS A JUNCTION BOX FOR PROPOSED INLET.



FOR REVISION 1 ITEMS ONLY

Point Table

Point #	Nearing	Existing
84	7132058.9705	2524752.7449
85	7132018.8941	2524447.5100



BAYLOR SCOTT AND WHITE

NO.	DATE	DESCRIPTION
001	04/27/2024	CONSTRUCTION 1.0007 1. LAYOUT REVISIONS
002		
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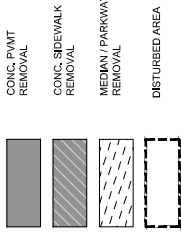
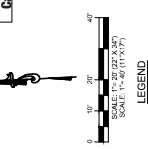
INTERSECTION CAPACITY IMPROVEMENTS
 (F) 23 CIP 5T2303
 US 380 & LAKE FOREST DR
 REMOVAL PLAN
 STA. 8+50 TO END (EB & WB)
 STA. 8+50 TO END (EB & WB)



CobbFendley
 TRESP Firm Registration No. 274
 License Firm Registration No. 1006700
 2801 Network Boulevard, Suite 800
 Frisco, Texas 75034
 972.335.2214 | fax 972.335.2022 | www.cobbhendley.com

49
 SHEET

WARNING III
 EXISTING UTILITIES SHALL BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION AND SHALL BE PROTECTED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING UTILITIES ARE DAMAGED. THE CONTRACTOR SHALL REPAIR THE UTILITIES AT THEIR OWN EXPENSE.

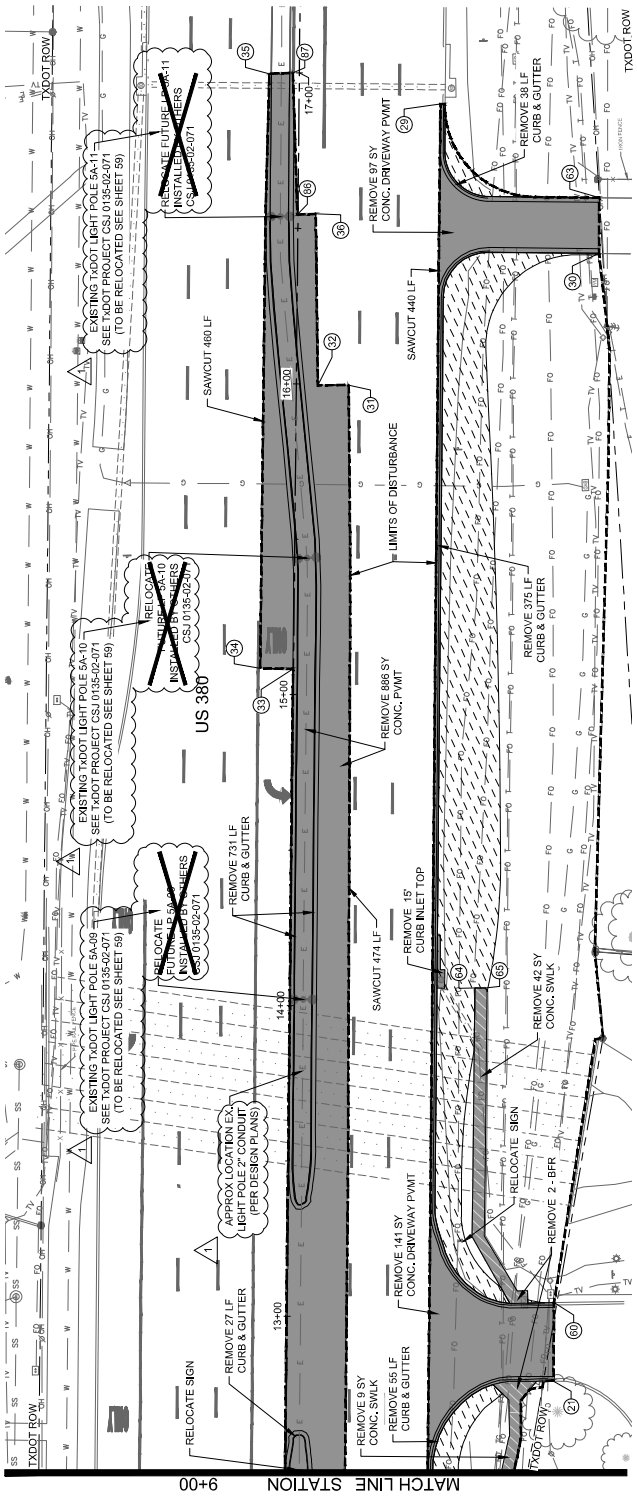
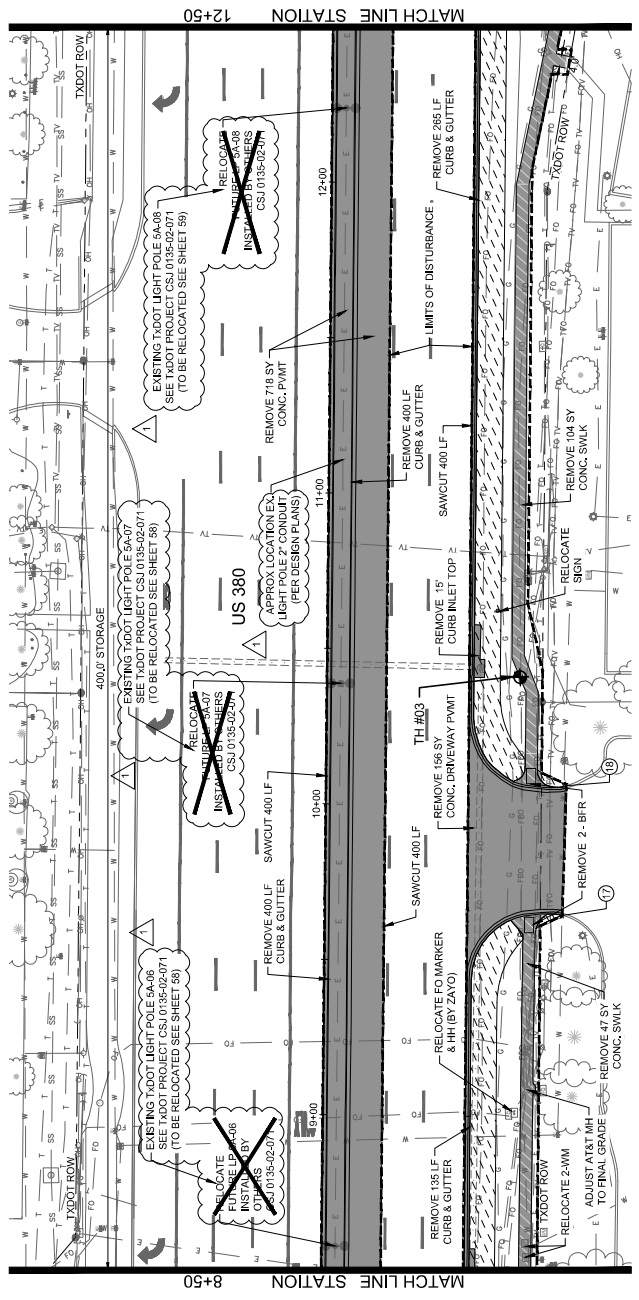


- NOTES:
- REMOVAL OF EXISTING IRRIGATION MAINS AND ALL OTHER APPURTENANCES RELATED TO IRRIGATION WILL BE SUBSIDIARY. (NO PAY ITEM)
 - CONTRACTOR SHALL SAWCUT AND LEAVE IN PLACE A 10X12 CONCRETE WEDGE OR FILL 10X10 CONCRETE WITH HOT MIX ASPHALT. ALL EXISTING IRRIGATION MAINS IN LANE, MATERIAL WILL REMAIN IN PLACE UNTIL TIME TO PREP SUBGRADE AND POUR CONCRETE. (NO PAY ITEM).
 - EXISTING INLETS TO BE RELOCATED SHALL BE PROPOSED AND USED AS A JUNCTION BOX FOR CAPPED INLET.
 - TOP OF EXISTING ILLUMINATION POLE FOUNDATIONS OF RELOCATED POLES SHALL BE REMOVED PER TPOOT ITEMS 610 AND 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.



FOR REVISION - ITEMS ONLY

Point #	Northing	Easting
17	7131977.2638	252897.2846
18	7131974.6689	252981.15171
21	7131954.8937	252818.7751
29	7131978.8578	252958.0542
30	7131928.8651	252948.9171
31	7132010.6782	252959.0811
32	7132020.6022	252959.2964
33	7132031.4443	252943.3773
34	7132041.9740	252918.8319
35	7132033.6653	252959.9145
36	7132019.5476	252964.4062
37	7131928.1461	252956.7975
64	7131976.1984	252931.8993
65	7132025.8677	252964.4056
86	7132025.4722	252959.0799
87		



NO.	DATE	DESCRIPTION
001	04/27/2024	CONSTRUCTION 1.000711 (LAYOUT) REVISIONS
002		
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11 WARNING III
 IN THE FIELD, CONTRACTORS SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE PROVISION PRIOR TO START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DISCOVERED. CONTRACTORS ARE RESPONSIBLE FOR COORDINATING ALL UTILITY RELOCATION WORK NECESSARY AND PROTECTING ALL UTILITIES. THE CONTRACTOR SHALL REPLACE ALL UTILITIES AT THEIR OWN RISK.



FOR REVISION 1 ITEMS ONLY



UNIQUE BY NATURE.
McKINNEY
 TEXAS

INTERSECTION CAPACITY IMPROVEMENTS
 US 380 & LAKE FOREST DR
 PAVING PLAN & PROFILE
 (F) 23 CIP FT2303
 STA. 0+00 TO STA. 4+00 (EB)

THEBIS Firm Registration No. 10067000
 2801 Network Boulevard, Suite 800
 Frisco, Texas 75034
 972.335.3214 | fax 972.335.3202 | www.cobbendley.com

PROJECT NO. 2303
 SHEET NO. 52

DATE: 04/27/2024
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH THE PROVISION PRIOR TO START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES DISCOVERED. CONTRACTORS ARE RESPONSIBLE FOR COORDINATING ALL UTILITY RELOCATION WORK NECESSARY AND PROTECTING ALL UTILITIES. THE CONTRACTOR SHALL REPLACE ALL UTILITIES AT THEIR OWN RISK.

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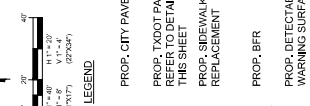
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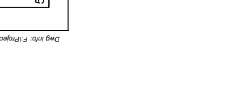
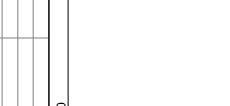
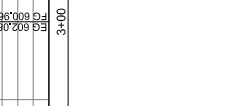
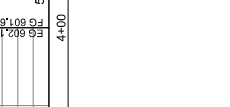
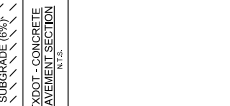
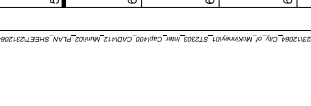
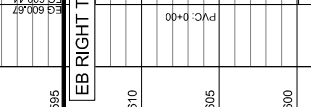
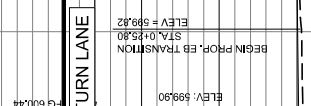
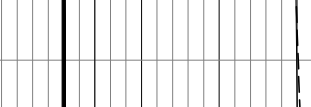
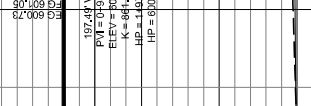
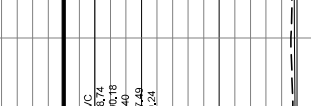
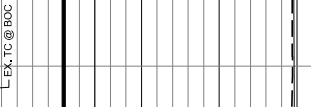
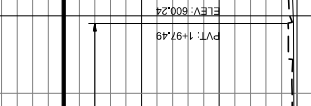
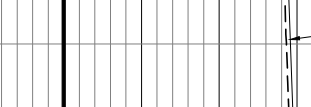
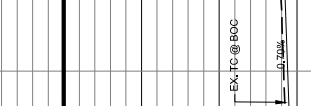
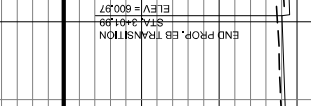
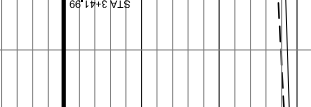
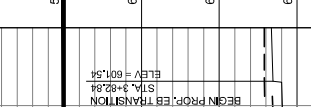
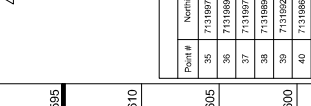
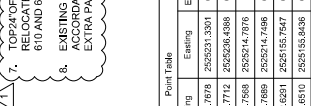
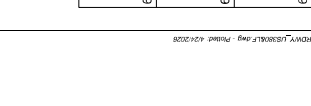
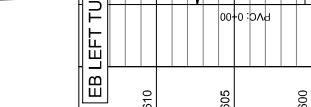
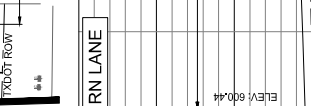
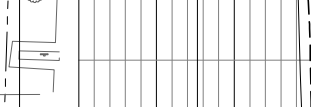
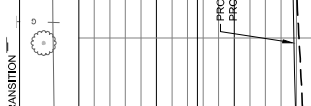
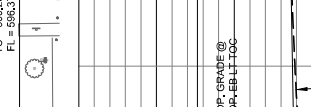
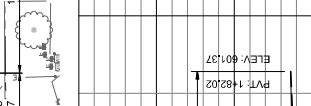
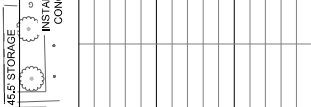
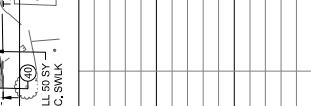
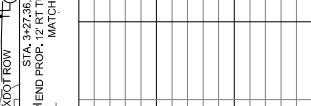
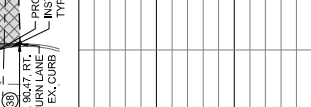
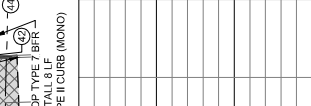
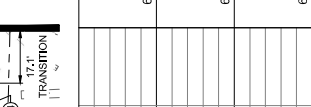
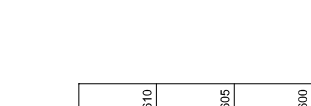
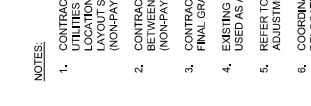
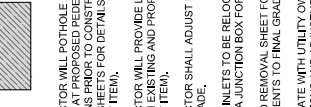
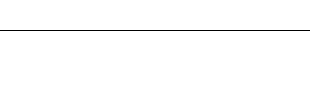
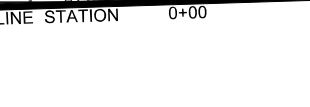
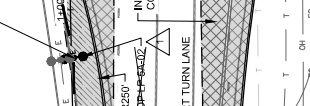
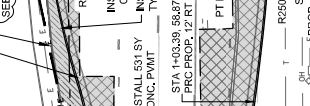
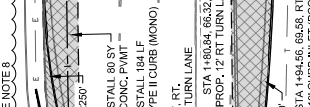
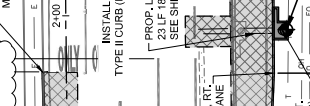
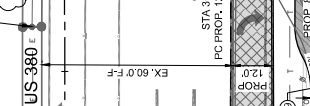
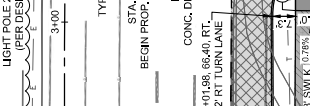
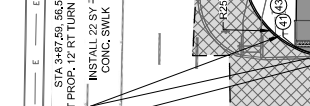
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- NOTES:
- CONTRACTOR WILL POTHOLE AND FIELD VERIFY EXISTING UTILITIES AT PROPOSED PEDESTRIAN AND SIGNAL POLE LOCATIONS PRIOR TO CONSTRUCTION. REFER TO SIGN POLE LAYOUT SHEETS FOR DETAILS ON PROPOSED LOCATIONS (NONPAY ITEM).
 - CONTRACTOR WILL PROVIDE LONGITUDINAL BUTT JOINTS BETWEEN EXISTING AND PROPOSED CONCRETE PAVEMENT (NONPAY ITEM).
 - CONTRACTOR SHALL ADJUST EXISTING APPURTENANCES TO FINAL GRADE.
 - EXISTING INLETS TO BE RELOCATED SHALL BE CAPPED AND USED AS A JUNCTION BOX FOR PROPOSED INLET.
 - REFER TO REMOVAL SHEET FOR UTILITY RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.
 - COORDINATE WITH UTILITY OWNERS PRIOR TO RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.
 - TOP OF POLES SHALL BE AT THE SAME ELEVATION AS EXISTING POLES. RELOCATED POLES SHALL BE REMOVED PER TxDOT ITEMS 610 AND 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.
 - EXISTING CONDUIT SHALL BE ABANDONED IN PLACE IN AN EXTRA PAY ITEM.



Point #	Nothing	Existing	Elevation
35	7131897.769	252523.3301	601.44
36	7131898.712	252526.4388	601.54
37	7131897.766	252521.4796	601.31
38	7131898.769	252521.4796	601.47
39	7131898.631	252515.7647	601.72
40	7131898.6510	252515.8348	601.89
41	7131897.722	252520.8758	0.00
42	7131897.708	252526.4333	0.00
43	7131897.7624	252526.4797	0.00
44	7131898.7624	252526.4797	0.00



NO.	DATE	REVISIONS
001	07/27/2024	APPROVED FOR TxDOT LAYOUT REVISIONS
002		
003		
004		
005		
006		
007		
008		
009		
010		

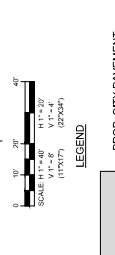


INTERSECTION CAPACITY IMPROVEMENTS
 (F) 23 CIP ST303
 US 380 & LAKE FOREST DR
 PAVING PLAN & PROFILE
 STA. 8+50 TO STA. 12+50 (EB)



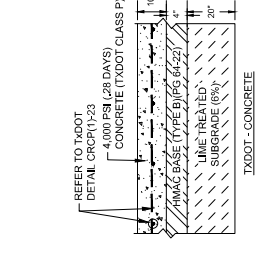
CobbFendley
 TRESPASSING FIRM REGISTRATION NO. 274
 LMS SURVEYING FIRM REGISTRATION NO. 10046700
 2801 Network Boulevard, Suite 800
 Frisco, Texas 75034
 972.353.2214 | fax 972.353.2022 | www.cobbendley.com

WARNING III
 EXISTING UTILITIES SHALL BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION AND SHALL BE RELOCATED AS NECESSARY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY RELOCATIONS AND PROTECTING ALL UTILITIES. CONTRACTOR SHALL REPLACE THEM AT THEIR OWN DISPENSE.

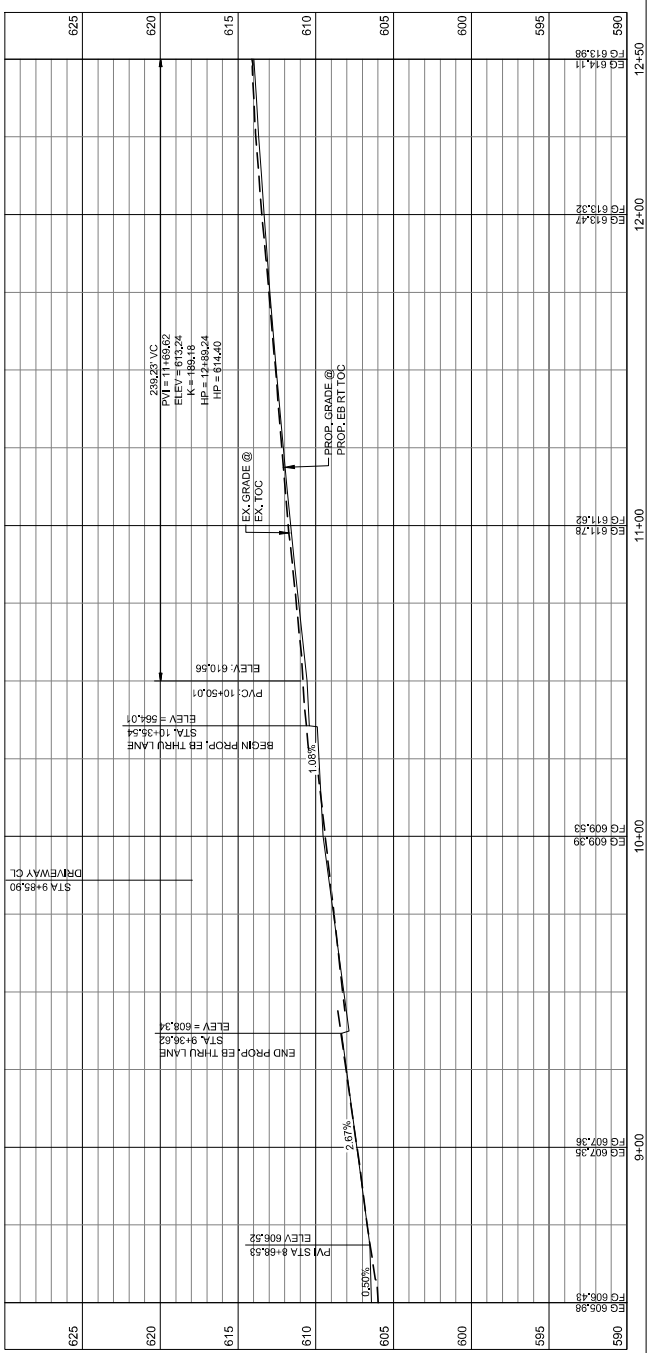
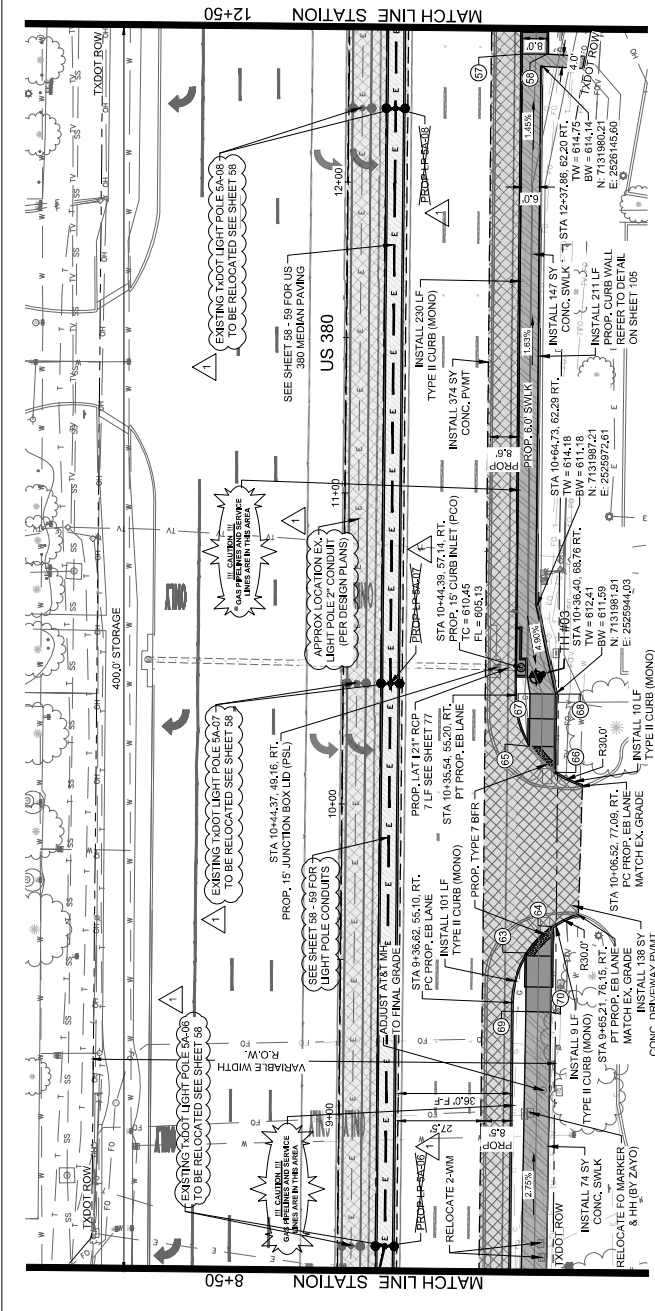


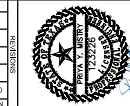
- PROP. CITY PAVEMENT
- PROP. TxDOT PAVEMENT DETAIL ON THIS SHEET
- PROP. SIDEWALK REPLACEMENT
- PROP. BFR
- PROP. DETECTABLE WARNING SURFACE
- PROP. CONC. MEGAN

- NOTES:
- CONTRACTOR WILL POT HOLE AND FIELD VERIFY EXISTING UTILITIES AT PROPOSED PEDESTRIAN AND SIGNAL POLE LOCATIONS PRIOR TO CONSTRUCTION. REFER TO SIGN POLE LAYOUT SHEETS FOR DETAILS ON PROPOSED LOCATIONS (NONPAY ITEM).
 - CONTRACTOR WILL PROVIDE LONGITUDINAL BUTT JOINTS BETWEEN EXISTING AND PROPOSED CONCRETE PAVEMENT (NONPAY ITEM).
 - CONTRACTOR SHALL ADJUST EXISTING APPURTENANCES TO FINAL GRADE.
 - EXISTING INLETS TO BE RELOCATED SHALL BE CARPED AND USED AS A JUNCTION BOX FOR PROPOSED INLET.
 - REFER TO REMOVAL SHEET FOR UTILITY RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.
 - COORDINATE WITH UTILITY OWNERS PRIOR TO RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.
 - TOP OF EXISTING SIGNAL POLE LOCATIONS OF RELOCATED POLES SHALL BE REMOVED PER TxDOT ITEMS 610 AND 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.
 - EXISTING CONDUIT SHALL BE ABANDONED IN PLACE IN ACCORDANCE WITH TxDOT ITEM 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.



Point #	Northing	Easting	Elevation
57	7131985.7301	2528146.7400	613.52
58	7131976.7374	2528146.4466	614.58
63	7131984.2654	2528060.7666	609.13
64	7131985.8948	2528068.8656	609.56
65	7131981.3442	2528027.1190	610.41
66	7131983.7195	2528058.5419	610.14
67	7131980.0294	2528044.0278	610.47
68	7131982.8009	2528043.6466	610.63
69	7131983.1365	2528041.8273	609.28
70	7131987.1443	2528041.4730	608.44





INTERSECTION CAPACITY IMPROVEMENTS
 (F) 23 CIP ST2303
 US 380 & LAKE FOREST DR
 PAVING PLAN & PROFILE
 STA. 12+50 TO END (EB)



WARNING III
 EXISTING UTILITIES SHALL BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION AND SHALL BE RELOCATED AS NECESSARY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WHERE NECESSARY AND PROTECTING UTILITIES AS NEEDED. THE CONTRACTOR SHALL REPLACE THEM AT THEIR OWN DISPENSE.



FOR REVISION - ITEMS ONLY



CONTRACTOR WILL POT HOLE AND FIELD VERIFY EXISTING UTILITIES AT PROPOSED PEDESTRIAN AND SIGNAL POLE LOCATIONS PRIOR TO CONSTRUCTION. REFER TO SIGN POLE LAYOUT SHEETS FOR DETAILS ON REFERRED LOCATIONS (NONPAY ITEM).

CONTRACTOR WILL PROVIDE LONGITUDINAL BUTT JOINTS BETWEEN EXISTING AND PROPOSED CONCRETE PAVEMENT (NONPAY ITEM).

CONTRACTOR SHALL ADJUST EXISTING APPURTENANCES TO FINAL GRADE.

EXISTING INLETS TO BE RELOCATED SHALL BE CAPPED AND USED AS A JUNCTION BOX FOR PROPOSED INLET.

REFER TO REMOVAL SHEET FOR UTILITY RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.

COORDINATE WITH UTILITY OWNERS PRIOR TO RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.

RELOCATED POLES SHALL BE REMOVED PER TxDOT ITEMS 610 AND 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.

EXISTING CONDUIT SHALL BE ABANDONED IN PLACE IN PLACE IN TxDOT ITEM 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.



NOTES:

1. CONTRACTOR WILL POT HOLE AND FIELD VERIFY EXISTING UTILITIES AT PROPOSED PEDESTRIAN AND SIGNAL POLE LOCATIONS PRIOR TO CONSTRUCTION. REFER TO SIGN POLE LAYOUT SHEETS FOR DETAILS ON REFERRED LOCATIONS (NONPAY ITEM).

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3. CONTRACTOR SHALL ADJUST EXISTING APPURTENANCES TO FINAL GRADE.

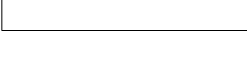
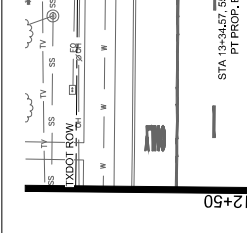
4. EXISTING INLETS TO BE RELOCATED SHALL BE CAPPED AND USED AS A JUNCTION BOX FOR PROPOSED INLET.

5. REFER TO REMOVAL SHEET FOR UTILITY RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.

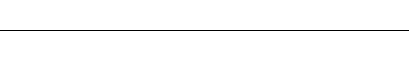
6. COORDINATE WITH UTILITY OWNERS PRIOR TO RELOCATIONS AND ADJUSTMENTS TO FINAL GRADE.

7. RELOCATED POLES SHALL BE REMOVED PER TxDOT ITEMS 610 AND 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.

8. EXISTING CONDUIT SHALL BE ABANDONED IN PLACE IN PLACE IN TxDOT ITEM 612. THIS WORK WILL BE A NO EXTRA PAY ITEM.



Station	Point	Stationing	Existing Elevation	Proposed Elevation
635		7131888.7519	2526108.7403	615.62
630		7131872.6088	2526178.1735	613.22
625		7131883.3886	2526244.4000	614.76
620		7131875.8007	2526221.2557	613.88
615		7131852.0712	2526264.0729	616.00
610		7131843.8707	2526255.4111	615.10
605		7131827.4475	2526259.6644	614.94
600		7131822.2540	2526238.9427	614.00
		7131844.6564	2526242.6691	616.00



NO.	DATE	REVISIONS
001	04/27/20	CONCEPTUAL LAYOUT
002	04/27/20	1. LAYOUT REVISIONS



INTERSECTION CAPACITY IMPROVEMENTS
 US 380 & LAKE FOREST DR
 (FY 23) CIP \$12303
 STA. 0+00 TO STA. 12+00
 WB LEFT TURN LANE & EB MEDIAN

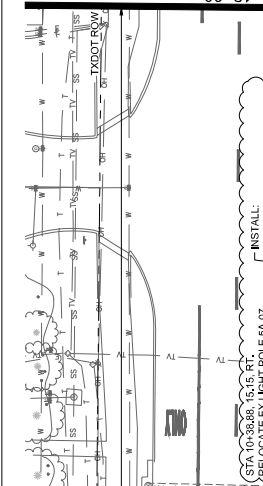


CobbFendley
 TRS Engineering Firm Registration No. 10064700
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 Frisco, Texas 75034
 972.353.2214 | fax 972.353.2302 | www.cobbfendley.com

WARNING III
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11 WARNING III
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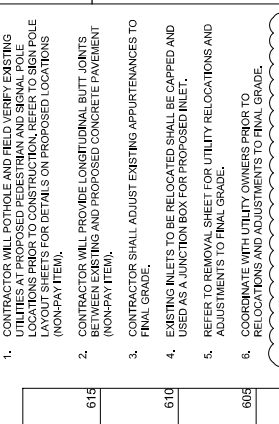
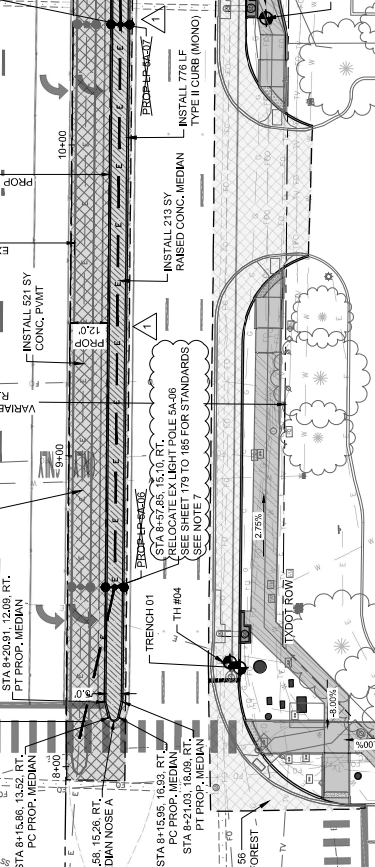


LEGEND

PROP. CITY PAVEMENT
 PROP. TAXIOT PAVEMENT
 THIS SHEET
 PROP. SIDEWALK REPLACEMENT
 PROP. BFR
 PROP. DETECTABLE WARNING SURFACE
 PROP. CONC. MEDIAN

NOTES:

- CONTRACTOR WILL POTHOLE AND FIELD VERIFY EXISTING UTILITIES AT PROPOSED PEDESTRIAN AND SIGNAL POLE LOCATIONS PRIOR TO CONSTRUCTION. REFER TO SIGN POLE LAYOUT SHEETS FOR DETAILS ON PROPOSED LOCATIONS (NONPAY ITEM).
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FOR REVISION 1 ITEMS ONLY

04/27/20

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11

FOR REVISION 1 ITEMS ONLY

04/27/20

11

11

11

Station	WB Left Turn Lane	EB Median
615	ELEV 612.06	ELEV 612.06
610	ELEV 613.43	ELEV 613.43
605	ELEV 614.90	ELEV 614.90
600	ELEV 616.37	ELEV 616.37
10+00	ELEV 610.01	ELEV 610.01
11+00	ELEV 611.90	ELEV 611.90
12+00	ELEV 613.87	ELEV 613.87

FOR REVISION 1 ITEMS ONLY

04/27/20

11

11

11

ROADWAY ILLUMINATION ASSEMBLY NOTES

1. Details apply to roadway lighting installations bid or referenced under Item 610, "Roadway Illumination Assemblies." Provide, furnish, and install all other materials not shown on the plans which may be necessary for complete and proper construction. Where manufacturers provide warranties or guarantees as a customary trade practice, furnish to the State such warranties or guarantees.
2. The locations of poles and fixtures may be shifted by the Engineer to accommodate local conditions. Install or remove poles and luminaires located near overhead electrical lines using established industry and utility safety practices and in accordance with laws governing such work. Consult with the appropriate utility company prior to beginning such work.
3. Provide new and unused materials. Ensure that all materials and installations comply with the applicable articles of the National Electrical Code (NEC), TxDOT standards and specifications, National Electrical Manufacturers Association (NEMA), and are listed by Underwriters Laboratories (UL) or a Nationally Recognized Testing Lab (NRTL). NRTLs such as Canadian Standard Association, Intertek Testing Services NA Inc., or FM Approvals LLC can be considered equivalent to UL. Faulty fabrication or poor workmanship in any material, equipment, or installation is justification for rejection.
4. Provide Roadway Illumination Light Fixtures as per TxDOT Departmental Material Specification (DMS) 11010, Item 610, and as shown on the Material Producers List (MPL) for Roadway Illumination and Electrical Supplies.
5. Fabricate steel roadway illumination poles in accordance with Roadway Illumination Poles (RIP) standards and Item 610. Poles fabricated according to RIP standards do not require shop drawing submittals.
 - a. Alternate designs to RIP standards or the use of aluminum to fabricate poles will require the submission of shop drawings electronically. For instructions on submitting shop drawings electronically see "Guide to Electronic Shop Drawing Submittal" on the TxDOT web site.
 - b. Limitations on use of the RIP standard: The RIP standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e., not more than) 25' above the elevation of the surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 6th Edition (2013) of the AASHTO Design Specifications. For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, provide poles meeting the following requirements:
 - i. Submittals. Following the electronic shop drawing submittal process (see Guide to Electronic Shop Drawing Submittal on the TxDOT web site), submit to the Engineer for approval (P.E.).
 - ii. Luminaire Structural Support Requirements. Provide light poles, arms, and anchor bolt assemblies with a 25 year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the 6th edition (2013) of the AASHTO Design Specifications. For transformer base poles, include transformer base and connecting hardware in calculations and shop drawing submittals. Structurally test all transformer bases to resist the theoretical plastic moment capacity of the pole. Submit certification of the plastic moment load test and FEMA Breakaway Requirement Test of the model of base being furnished. The shop drawings, shop drawing base and transformer manufacturer's installation and logo on shop drawings. Include on manufacturer's shop drawings the ASTM designations for all materials to be used.
6. For both transformer and shoe-base type illumination poles, provide and install double-pole breakerway fuse holders as specified by DMS-11040. Breakaway fuse holders are listed on the MPL for Roadway Illumination and Electrical Supplies under Items 610 & 620. Provide 10 amp time delay fuses for breakerway connectors in light poles, or inside the light fixture for underpass luminaires. In each pole, connect luminaires to the breakerway connector with continuous stranded 12 AWG copper conductors as listed on the MPL. Bond all equipment grounding conductors together and to the ground lug in the transformer base or hand hole.
7. Tighten anchor bolts for shoe base, concrete traffic barrier base, and bridge mount roadway illumination poles, in accordance with Item 449.
8. Install T-Base with following procedure:
 - a. Anchor Bolt Tightening.
 - i. Coat the threads of the anchor bolts with electrically conductive lubricant.
 - ii. Place the T-base over the anchor bolts. Foundation must be level and flat. The maximum permissible gap under any one corner of the T-base is 1/8" before nuts are tightened.
 - iii. Coat the bearing surfaces of the nuts and washers with electrically conductive lubricant. Install (1) 1/2" hold down washer, (1) lock washer, and (1) nut on each anchor bolt. Turn the nuts onto the bolts so that each is hand-tight against the washer.
 - iv. Using a torque wrench, tighten each nut to 150 ft-lb. Uniform contact is required between the foundation and the T-base in the corner regions of the T-base, and all corner gaps must be closed after applying torque. If a gap still exists after torquing to 150 ft-lbs, continue torquing each bolt incrementally until gap is closed or maximum allowable torque of 250 ft. pound is reached, whichever comes first. If 250 ft-lbs is not enough to close the gap the foundation must be leveled. Gaps along the straight sides of the T-bases and the foundation are permissible. Ensure that no high point of contact occurs between the straight sides of the T-base and the foundation.
 - v. Check top of T-base for level. If not level then foundation must be leveled.
9. Top Bolt Procedure
 - i. Erect pole over T-base with crane. Coat bolts, nuts, washers, and lock washers with electrically conductive lubricant.

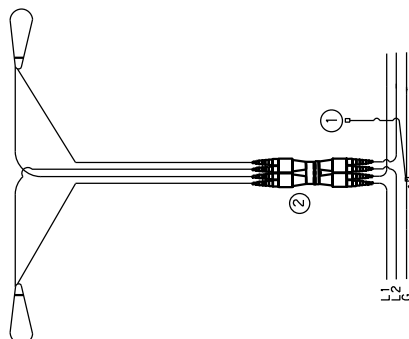
- i. Install bolts and 1/2" connecting washers from the inside of the T-base, thread up through the pole base. Install flat washers, lock washers and nuts snug tight according to Item 447, "Structural Bolting."
 - iii. Tighten each nut to 150 ft-lb. using a torque wrench.
- a. Level and Plumb
 - i. Ensure pole is plumb and mast arm is perpendicular to the roadway according to plans to within 5 degrees.
 9. Construct luminaire pole foundations in accordance with Item 416, "Drilled Shaft Foundations," and TxDOT standard sheet RID(1)-20.
 10. Provide and install underpass luminaires in accordance with Item 610, DMS-11010, and TxDOT standard sheet RID(3). Typical luminaire size for underpass luminaires is 150W HPS or 150W EQ LED.
 11. Mount luminaires on arms level as shown by the luminaire level indicator.
 12. Orient luminaires perpendicular to the roadway intended to be lit unless otherwise shown on the plans.

Wiring Diagram Notes:

1. Use 1/2 in.-13 UNC threaded, copper or tin-plated copper, pole bonding connector, sized appropriately for conductors, bonded to T-base, or use ground lug in handhole as available.
2. Use pre-qualified two-pole breakerway connectors for all luminaire pole installations. For luminaires fed by a circuit with a neutral conductor, use double pole breakerway connectors with the neutral side unfused and marked white.
3. Split Bolt or other connector.

Decorative LED Lighting Notes:

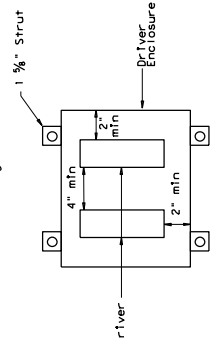
1. LED Drivers in Remote Outdoor enclosures (for drivers that do not include an enclosure as part of a factory assembly):
 - a. Provide NEMA 3R outdoor enclosure or as approved.
 - b. Install enclosure at least 12" above ground or other horizontal surface. Mount vertically or on ceiling, and avoid direct sun where possible.
 - c. Install drivers with at least 2 inches of space from enclosure walls.
 - d. For multiple drivers in an enclosure, provide at least 4 inches side to side and 1 inch end to end from other drivers or electronic equipment
 - e. For drivers mounted on back wall of enclosure, mount enclosure on 1 5/8" strut or other standoff to dissipate heat, or mount driver to side of the enclosure or to the metal cover.
 - f. Provide remote drivers with a maximum of 100 watts
 - g. Provide drivers with documentation of 100,000 hr lifetime or at least of 65C or higher.



L1, L2 = Hot Conductors
G = Grounding Conductor

TYPICAL WIRING DIAGRAM

LUMINAIRES SERVED AT 480V ON 240/480 VOLT SERVICE OR LUMINAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE.



Driver Spacing in Remote Enclosure

Texas Department of Transportation		Texas Safety Division Standard	
FILE: RID(1)-20.dgn	DATE: 1/11/2007	BY: []	CHK: []
PROJECT: TxDOT January 2007	CONF: []	JOB: []	REVISION: []
REVISED: []	DIST: []	COUNTY: []	SHEET NO.: []
1-11	12-20		179

ROADWAY ILLUMINATION DETAILS

RID(1)-20

GENERAL NOTES:

- ALL 150 watt HPS and 150 watt equivalent LED luminaires
- Luminaire locations, conduit, and conductor sizes and routing are typical and diagrammatic only. See project layout sheets for specific details.
- Conduit will be paid for under Item 618, "Conduit," and conductors will be paid for under Item 620, "Electrical Conductors," unless otherwise shown on the plans.
- Adjust conduit in saddles to place fixture height and orientation as required. See fixture orientation detail and plans. Where the luminaire is being carried on the bottom of the beam, maximum of 3 in. (See detail UNDERPASS LIGHTING ARM TYPE 2)
- Except as noted, galvanize all structural steel and exposed bolts, nuts, and washers in accordance with Item 445 "Galvanizing."
- Fabrication of brackets and support arms will not be paid for directly but is subsidiary to Item 610, "Roadway Illumination Assemblies."
- Install a heavy duty NEMA 3R fused disconnect or breaker enclosure shown on plans, with at least one per bridge circuit. Install 20 amp time-delay fuses or inverse-time circuit breakers. Mount disconnect or breaker enclosure 10 ft. (min) above grade on columns or bent caps as approved by the Department. Modify disconnect to allow padlocking in the ON and OFF positions. Padlocks and other locking devices shall be provided for each circuit. Padlocks will not be paid for directly but are subsidiary to the various bid items of the contract.
- Conduit on columns, caps, and sibs is shown surface mounted. For new columns and caps, embed PVC conduit in concrete. Bond and ground metal junction boxes and conduit.

B. TYPE 1

- Provide 2 in. rigid metal conduit (2.375" O.D., 0.146" wall) for Type 1 arm shaft.
- Use 3/8 in. stainless steel bolt or stud non-epoxy type expansion anchors for concrete for Type 1 mounting. Except as noted, provide an allowable 2650 lbs minimum pull-out force (after consideration of adjustment factors for edge distance and bolt spacing) for each anchor. Install each anchor to the embedment depth recommended by the manufacturer.
- Attach conduit to plate with 4 saddles, four 3/8 in. diameter bolts, nylon throat lock nuts, and lock washers.

C. TYPE 2

- Provide 2 in. rigid metal conduit (2.375" O.D., 0.146" wall) or provide a combination of 2 1/2 in. (2.875" O.D., 0.193" wall) and 2 in. (2.375" O.D., 0.146" wall) rigid metal conduits with a reducing bushing as beam height stipulated for Type 2 arm shaft. Field cutting and threading will be permitted. Paint cut and threaded areas with zinc rich paint after conduit is connected to adjacent fitting.
- Connecting conduit may be strapped to tapered section only of precast beams as shown. Anchor as approved by the Engineer. Maximum anchor depth is 1 in.
- Indiscriminate drilling into precast concrete beams may result in reduced beam strength. See drilling location and method as directed by the Engineer. Use Location of Underpass Lighting Mounting Bracket detail. The locations shown in the table are such that reinforcing strands will not be damaged.

TABLE 5
LOCATION OF UNDERPASS LIGHT MOUNTING BRACKET TABLE

SPAN LENGTH	MINIMUM DISTANCE
< 50'	10'-0"
50' - 70'	15'-0"
70' - 90'	20'-0"
> 90'	25'-0"

CONDUIT DETAIL

CONDUIT CONNECTION PROFILE

LOCATION OF UNDERPASS LIGHT MOUNTING BRACKET

UNDERPASS LIGHTING TYPE 2

UNDERPASS LIGHTING TYPE 1

SECTION A-A
 (ASTM A-36 or better)

CLAMP DETAIL
 (2 Req'd)

PLAN VIEW

FRONT

ARM DETAIL

END VIEW

PROFILE VIEW
 (See Note A.3)

UNDERPASS LIGHTING ARM

SECTION A-A
 (ASTM A-36 or better)

CLAMP DETAIL
 (2 Req'd)

PLAN VIEW

FRONT

ARM DETAIL

END VIEW

PROFILE VIEW
 (See Note A.3)

UNDERPASS LIGHTING TYPE 1

SECTION A-A
 (ASTM A-36 or better)

CLAMP DETAIL
 (2 Req'd)

PLAN VIEW

FRONT

ARM DETAIL

END VIEW

PROFILE VIEW
 (See Note A.3)

UNDERPASS LIGHTING TYPE 1

SECTION A-A
 (ASTM A-36 or better)

CLAMP DETAIL
 (2 Req'd)

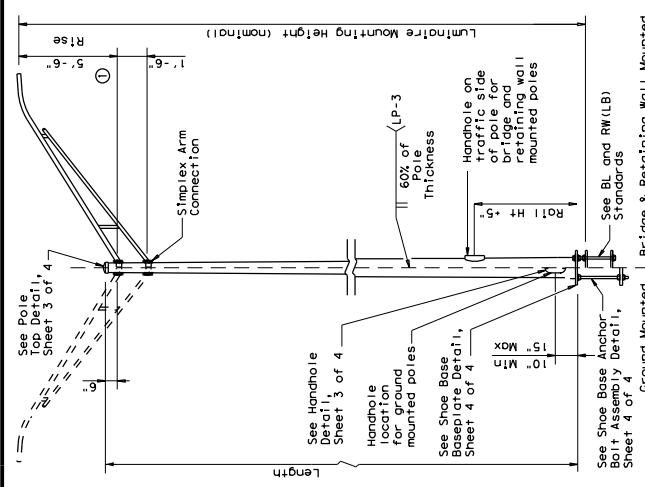
PLAN VIEW

FRONT

ARM DETAIL

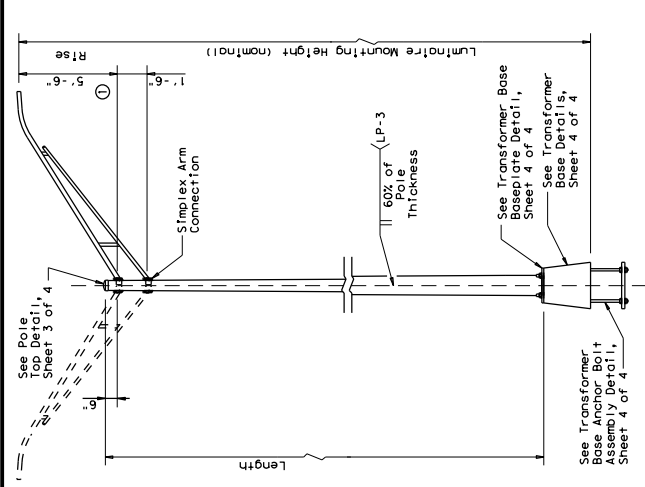
END VIEW

PROFILE VIEW
 (See Note A.3)



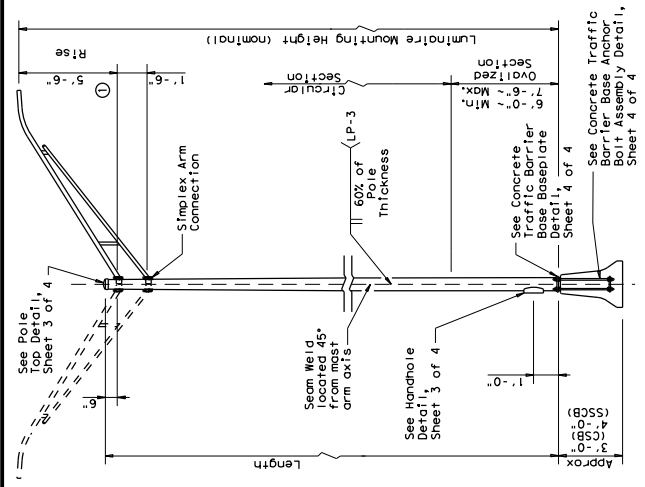
SHOE BASE POLE

Luminaire Mounting Height (Nominal) (ft)	Base Diameter (in)	Top Diameter (in)	Length (ft)	Pole Thickness (in)	Design Height (K-ft)
20.00	7.00	4.30	15.00	0.1196	7.1
30.00	7.50	4.00	25.00	0.1196	13.2
31.00-39.00	8.00	4.36-3.24	26.00-34.00	0.1196	20.7
40.00	8.50	3.60	35.00	0.1196	20.7
50.00	10.50	4.20	45.00	0.1196	30.3



TRANSFORMER BASE POLE

Luminaire Mounting Height (Nominal) (ft)	Base Diameter (in)	Top Diameter (in)	Length (ft)	Pole Thickness (in)	Design Height (K-ft)
20.00	7.00	5.11	13.50	0.1196	7.1
30.00	7.50	4.21	23.50	0.1196	13.2
31.00-39.00	8.00	4.57-3.45	24.50-32.50	0.1196	20.7
40.00	8.50	3.81	33.50	0.1196	20.7
50.00	10.00	3.91	43.50	0.1196	30.3



CONCRETE TRAFFIC BARRIER BASE POLE

Luminaire Mounting Height (Nominal) (ft)	Base Diameter (in)	Top Diameter (in)	Length (ft)	Pole Thickness (in)	Design Moment About C. of Base (K-ft)
28.00	9.00	5.78	23.00	0.1196	10.3
38.00	9.00	4.38	33.00	0.1196	16.6
48.00	10.50	4.48	43.00	0.1345	25.1
					30.5

MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
Pole Shaft (0.14"/ft., Taper)	A572 Gr. 50, A36, or A199 Gr. A, or 50 Cl. 2, or A1008 HSLA, or 50 Cl. 2	50
Base Plate and Handhole Frame	A572 Gr. 50, or A36	36
T-Base Connecting Bolts	F3125 Gr. A325	92
Anchor Bolts	F1554 Gr. 55, A193 Gr. A321, or A36	55, 105
Anchor Bolt Templates	A36	36
Heavy Hex (H.H.) Nuts	A194 Gr 2H, or A563 Gr DH	
Flat Washers	F436	

NOTES:

- 2'-6" rise for 4 ft. luminaire arms.
- Before ovalized as shown on Concrete Traffic Barrier Baseplate details, Sheet 4 of 4.
- A1011 SS Gr 50 may be used instead of HSLA, provided the material meets the elongation requirements for HSLA.

POLE ASSEMBLY FABRICATION TOLERANCES TABLE

DIMENSION	TOLERANCE
Shaft length	+1"
I.D. of outside piece of slip fitting pieces	+1/8", -1/16"
O.D. of inside piece of slip fitting pieces	+1/32", -1/8"
Shaft diameter: other	+3/16"
Out of "round"	1/4"
Straightness of shaft	±1/4" in 10 ft
Twist in multi-stepped shaft	4° in 50 ft
Perpendicular to baseplate	1/8" in 24"
Pole centered on baseplate	±1/4"
Location of Attachments	±1/4"
Bolt hole spacing	±1/16"

- GENERAL NOTES:**
- Designs conform to AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, 6th Edition (2013), and Interim Revisions thereto, Design 3-Second Gust Wind Speed equals to mph with a gust factor of 1.4. The design wind speed to a 25 year recurrence interval. Design moments listed in tables assume base of pole is 25' above natural ground level.
 - Structures are designed to support two 12' luminaire mast arms and luminaires. Mast arms are designed to support a 60-pound luminaire having an effective projected area of 1.6 square feet.
 - Fabrication shall be in accordance with the Specifications and with the details, dimensions, and weld procedures shown herein. Do not submit shop drawings for roadway lighting structures and details for fabrication in accordance with the details and dimensions and procedures shown herein. Weld references call for preapproved weld procedures which the fabricator must obtain prior to fabrication. Materials, fabrication tolerances, and fabrication tolerances shall be within the Specifications and the Specifications. In the absence of specified fabrication tolerances, dimensions shall be within the tolerances generally obtainable in normal fabrication practices.

- For mounting heights between values shown in the tables, use base diameter and thickness values for the larger height.
- Unless otherwise noted, all steel parts shall be galvanized in accordance with Item 445, "Galvanizing."
- Steel poles shall be fabricated in accordance with Item 441, Steel Structures. Longitudinal seam welds for pole shall be in accordance with AWS D11.1, Structural Welding Code-Steel.
- Two-section poles joined by circumferential welds will be fabricated in two sections and field joints shall telescope together with a lap length of not less than 1-1/2 times the shaft diameter at the lap joint. Alternate material equal to or better than material specified may be substituted with the approval of the Engineer.
- Lubricate and tighten anchor bolts, when erecting shoe base poles and concrete traffic barrier base poles, in accordance with Item 449, "Anchor Bolts."

- All poles, except Transformer Base Poles, shall have hand holes with reinforcing frames and covers. For ground mounted shoe base poles, hand holes shall be placed 90 degrees to each other and shall be located on the plans. For poles mounted on concrete transformer baseplate luminaire arms, hand holes shall be located 180 degrees from luminaire arm. For poles mounted on a concrete traffic barrier with two luminaire arms, all hand holes shall be on the same side of the barrier. For poles mounted on a bridge lighting bracket, hand holes shall be on the traffic side of the pole, at a height that will clear the barrier.
- The finished pole shall have a smooth, uniform finish free of oil, grease, dirt, or other contaminants. Scum, dross, slag, and other damaged galvanized areas on poles and mast arms shall be repaired in accordance with Item 445, "Galvanizing."
- Pole length is based on a 5'-6" luminaire arm rise. 4 ft. luminaire arms have a 2'-6" rise. A pole with 4 ft. luminaire arms will have an actual mounting height 3'-0" less than the nominal mounting height, increasing the pole length to meet the actual mounting height. The Engineer shall specify any other rise otherwise directed by the engineer.
- Erect transformer base poles in accordance with sheet RID(1).

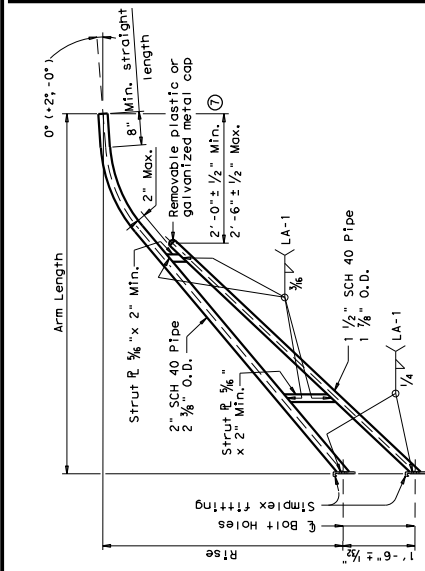
Texas Department of Transportation

ROADWAY ILLUMINATION POLES

RIP(2)-19

FILE: RIP-19.dgn
 DATE: JANUARY 2007
 REVISIONS: 7-17, 12-19

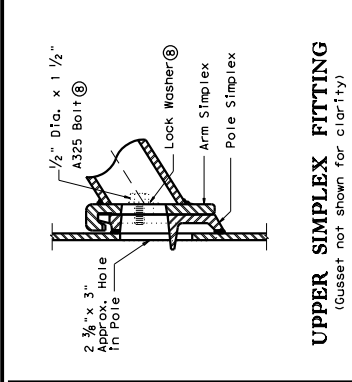
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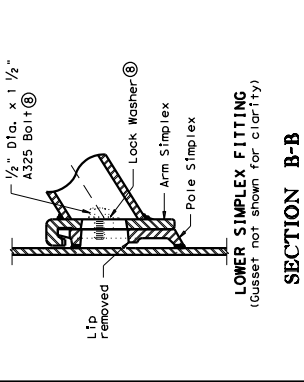
LUMINAIRE ARM

LUMINAIRE ARM DIMENSIONS	
Nominal Arm Length	Rise
4'-0"	2'-6"
6'-0"	5'-6"
8'-0"	7'-6"
10'-0"	9'-6"
12'-0"	11'-6"

ARM ASSEMBLY FABRICATION TOLERANCES TABLE	
DIMENSION	TOLERANCE
Arm Length	±1"
Arm Rise	±1"
Deviation from flat	1/8" In 12"
Spacing between holes	±1/32"

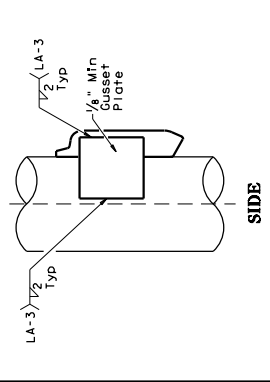


UPPER SIMPLEX FITTING
(Gusset not shown for clarity)



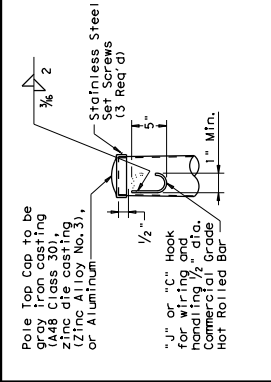
LOWER SIMPLEX FITTING
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SECTION B-B



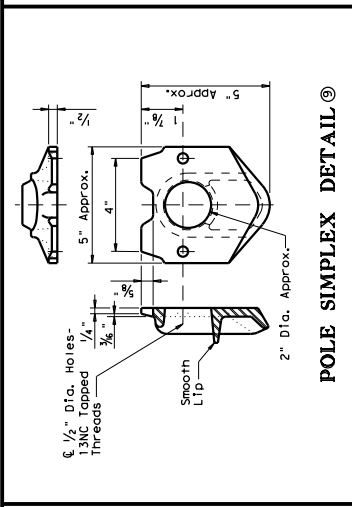
SIDE

SIMPLEX ATTACHMENT DETAIL

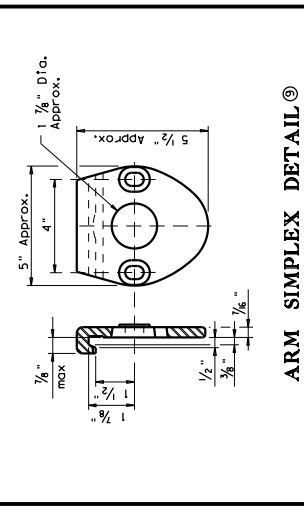


ELEVATION

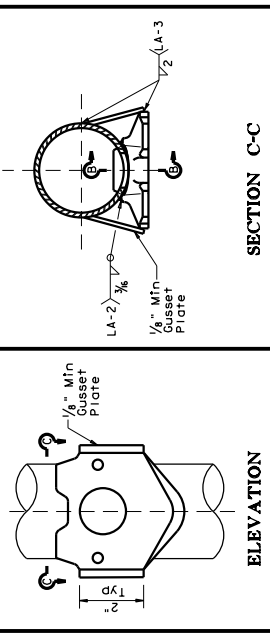
POLE TOP



POLE SIMPLEX DETAIL

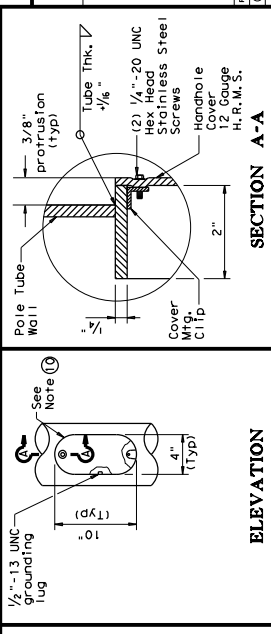


ARM SIMPLEX DETAIL



ELEVATION

SECTION C-C



SECTION A-A

HANDHOLE

NOTES:

- Any of the materials listed for plates may be used where the drawings do not specify a particular ASTM designation.
- AS76 must be suitable for forging and also meet minimum tensile strength of 66 ksi, minimum yield of 35 ksi, and elongation in 2 inches of 22 percent.
- AS72, A1008 HSLAS-F, and A1011 HSLAS-F materials may have higher yield strengths, but shall not have less elongation than the grade indicated.
- Dimensional limits are given to show acceptable variation in design. All of a Fabricator's production of a particular arm design shall have the same dimensions within specified tolerances.
- Each pole simplex fitting shall be supplied with 2 bolts and 2 lock washers of the size specified. The bolts and lock washers shall be specified in the drawings. Further hardware items called for in the plans.
- Proposed deviations in arm simplex dimensions or materials must be submitted to the Department for approval.
- A welded handhole frame is permissible. Maximum of two (2) CJP weld splices is allowed.

MATERIALS

Pole or Arm Simplex	ASTM A27 Gr 65-35 or Gr 70-36, A148 Gr 80-50, A576 Gr 1021 (5), or A36 (Arm only)
Arm Pipes	ASTM A53 Gr A or B, A500 Gr B, A501, A1008 HSLAS-F Gr 50 (6), or A1011 HSLAS-F Gr 50 (6)
Arm Struts and Gusset Plates (4)	ASTM A36, A572 Gr 50 (6), or A588
Misc.	ASTM designations as noted

Texas Department of Transportation
Traffic Safety Division Standard

ROADWAY ILLUMINATION POLES

RIP (3) - 19

FILE: 1-19, 071
REVISED: JANUARY 2007
DIST: COUNTY: SHEET NO. 184

GENERAL NOTES:

- For mounting heights between those shown in the table, use the values in the table for the larger mounting height.
- All breakaway bases shall meet the breakaway requirements of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th Edition (2013) and Interim Revisions thereto, and shall have been tested by FHWA-approved methods. All bases shall have been tested to resist 150% of the design moment.
- Transformer bases shall be cast from aluminum, ASTM B108 or B26 Alloy 356.0-16, or other material approved by the Engineer. Four Hex Head (H.H.) bolts with four H.H. nuts, four lock washers, four flat washers, and connecting and hold-down washers as recommended by the manufacturer, galvanized to ASTM A153 Class C and, or B695 Class 30, shall be provided with the manufacturer's name or logo, and model number. Bolts shall be ASTM A320 or approved equal. Nuts shall be ASTM A563 grade DH galvanized.
- Bases shall be stamped, incised or by other approved permanent means, marked to show fabricator's name or logo, and model number. Such information shall be placed in a readily seen location, inside or outside the base, but shall not be placed on the door.
- Doors for transformer bases shall be made of plastic, fiberglass or other non-metallic material approved by the Engineer and shall be attached with stainless steel screws or bolts. Transformer bases shall be cleaned by grit blast cleaning after heat treatment. Certification by the manufacturer of heat treatment shall be furnished with transformer bases. The certification shall show the metal alloy and temper and that the base meets those requirements, chemical and physical, the manufacturer's name or logo, and model number. Specification for transformer bases shall be cast with a removable tab bar for material testing. Some bars may have been removed by the manufacturer for testing.

NOTES:

- Anchor Bolt Templates do not need to be galvanized.
- Pole diameter before ovalized.

ANCHOR BOLT FABRICATION TOLERANCES TABLE	
DIMENSION	TOLERANCE
Length	$\pm 1/2"$
Threaded length	$\pm 1/2"$
Galvanized length (if required)	$- 1/4"$

SHEET 4 OF 4

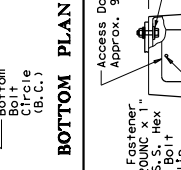
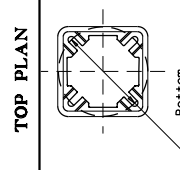
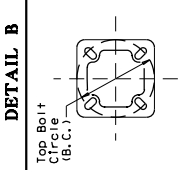
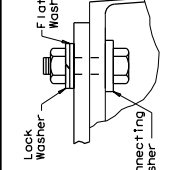
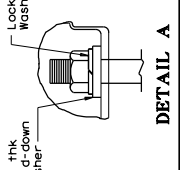


ROADWAY ILLUMINATION POLES

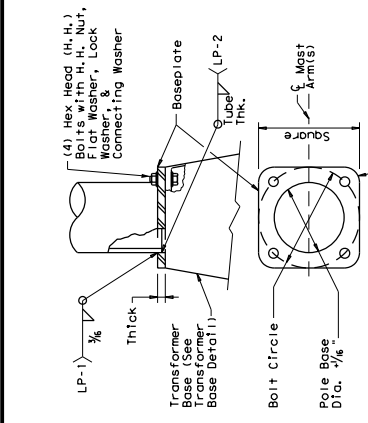
RIP (4) - 19

FILE #	17D-19, 001	DATE	1/2007	REVISED	1-17
DATE	JANUARY 2007	BY	SEC	JOB	CHK
REVISIONS		DIST		COUNTY	SHEET NO.
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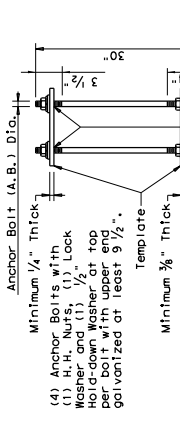
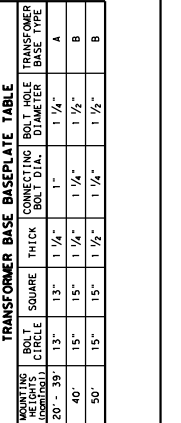
TRANSFORMER BASE TABLE	
TYPE	TOP B.T.M. B.C. B.C.
A	13" 14"
B	15" 17 1/4"



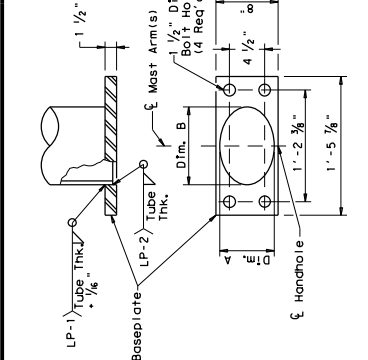
TRANSFORMER BASE DETAILS



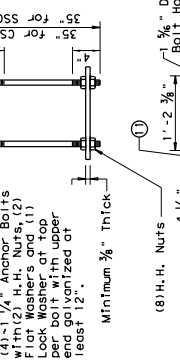
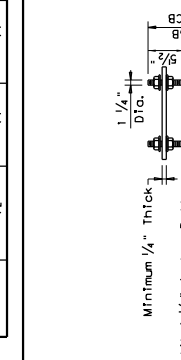
TRANSFORMER BASE BASEPLATE TABLE	
MOUNTING HEIGHTS (nominal)	TRANSFORMER BASE TYPE
20" - 39"	A
40" - 50"	B



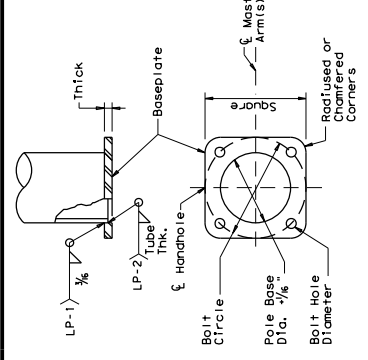
TRANSFORMER BASE ANCHOR BOLT ASSEMBLY



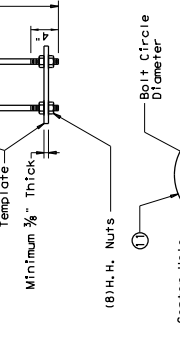
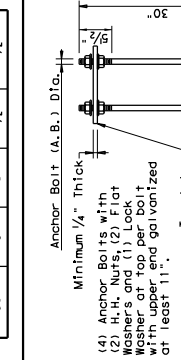
CONCRETE TRAFFIC BARRIER BASE BASEPLATE TABLE			
MOUNTING HEIGHTS (nominal)	Pole Dia. (in)	DIM. A	DIM. B
28" - 38"	9"	7" ± 1/4"	10" ± 1/4"
48"	10 1/2"	7" ± 1/4"	13" ± 1/4"



CONCRETE TRAFFIC BARRIER BASE ANCHOR BOLT ASSEMBLY



SHOE BASE BASEPLATE TABLE	
MOUNTING HEIGHTS (nominal)	BOLT HOLE DIAMETER
20" - 39"	1 1/4"
40" - 50"	1 1/2"



SHOE BASE ANCHOR BOLT ASSEMBLY

TRANSFORMER BASE ANCHOR BOLT ASSEMBLY TABLE			
MOUNTING HEIGHTS (nominal)	A, B, BOLT DIA. (nominal)	CTR. HOLE DIA. (nominal)	BOLT HOLE DIA. (nominal)
20" - 39"	1"	1 1/4"	1 1/2"
40" - 50"	1 1/4"	1 7/8"	1 3/4"

SHOE BASE ANCHOR BOLT ASSEMBLY TABLE			
MOUNTING HEIGHTS (nominal)	A, B, BOLT DIA. (nominal)	CTR. HOLE DIA. (nominal)	BOLT HOLE DIA. (nominal)
20" - 39"	1"	1 1/4"	1 1/2"
40" - 50"	1 1/4"	1 7/8"	1 3/4"

Bid Form
City of McKinney
Intersection Capacity Improvements (FY23)
Bid No. 25-59ITB CIP # ST2303

Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
100A	1	LS	Mobilization at W White Avenue & Westcreek Ranch Apartments Driveway complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
100B	1	LS	Mobilization at W White Avenue & Community Ave complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
100C	1	LS	Mobilization at Eldorado Parkway & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
100D	1	LS	Mobilization at US 380 & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
101A	1	LS	General Site Preparation at W White Avenue & Westcreek Ranch Apartments Driveway complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
101B	1	LS	General Site Preparation at W White Avenue & Community Ave complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
101C	1	LS	General Site Preparation at Eldorado Parkway & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
101D	1	LS	General Site Preparation at US 380 & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
102A	1	LS	Traffic Control at W White Avenue & Westcreek Ranch Apartments Driveway complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
102B	1	LS	Traffic Control at W White Avenue & Community Ave complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
102C	1	LS	Traffic Control at Eldorado Parkway & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
102D	1	LS	Traffic Control at US 380 & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$

**Bid Form
City of McKinney
Intersection Capacity Improvements (FY23)
Bid No. 25-59ITB CIP # ST2303**

Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
103A	1	LS	SWPPP (Including Tree Protection) at W White Avenue & Westcreek Ranch Apartments Driveway complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
103B	1	LS	SWPPP (Including Tree Protection) at W White Avenue & Community A complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
103C	1	LS	SWPPP (Including Tree Protection) at Eldorado Parkway & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
103D	1	LS	SWPPP (Including Tree Protection) at US 380 & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
104A	1	LS	Furnish & Install Project Signs at W White Avenue & Westcreek Ranch Apartments Driveway complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
104B	1	LS	Furnish & Install Project Signs at W White Avenue & Community Ave complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
104C	1	LS	Furnish & Install Project Signs at Eldorado Parkway & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
104D	1	LS	Furnish & Install Project Signs at US 380 & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
105A	1	LS	Irrigation at W White Avenue & Westcreek Ranch Apartments Driveway complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
105B	1	LS	Irrigation at W White Avenue & Community Ave complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
105C	1	LS	Irrigation at Eldorado Parkway & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
105D	1	LS	Irrigation at US 380 & Lake Forest Drive complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$


Bid Form
City of McKinney
Intersection Capacity Improvements (FY23)
Bid No. 25-59ITB CIP # ST2303

Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
200	5,725	LF	Sawcut, Remove, & Dispose of Existing Concrete Curb & Gutter (All Types) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
201	2,756	SY	Sawcut, Remove, & Dispose of Existing Concrete Pavement, Concrete Median Nose, & Concrete Median (All Depths, All Types) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
202	753	SY	Sawcut, Remove, & Dispose of Existing Concrete Commercial Driveways (All Depths, All Types) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
203	911	SY	Sawcut, Remove, & Dispose of Existing Concrete Sidewalk (All Depths, All Types) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
204	14	SY	Remove Existing Pavers (All Depths, All Types) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
205	1	EA	Remove Existing HOA Monument complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
206	15	EA	Remove Existing Concrete Ramps complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
207	1	EA	Remove Existing 8' Recessed Curb Inlet complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
208	4	EA	Remove Existing 10' TxDOT Curb Inlet Top (PCO) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
209	5	EA	Remove Existing 15' TxDOT Curb Inlet Top (PCO) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
210	1	EA	Remove Existing 10' TxDOT Curb Inlet Base (PB) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
211	2	EA	Remove Existing 15' TxDOT Curb Inlet Base (PB) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$

Bid Form
City of McKinney
Intersection Capacity Improvements (FY23)
Bid No. 25-59ITB CIP # ST2303

Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
212	1	EA	Remove Existing Junction Box Lid (PSL) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
213	25	LF	Remove Existing 18" RCP complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
214	1	EA	Remove Existing Storm Manhole Concrete Pad complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
215	16	EA	Remove Trees (>6" to 18") complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
216	4	EA	Remove Trees (>18" to 30") complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
217	1,801	LF	Remove Existing Reflective Pavement Marking TY I White 6" Skip complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
218	5,533	LF	Remove Existing Reflective Pavement Marking TY I White 8" Solid complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
219	550	LF	Remove Existing Reflective Pavement Marking TY I White 24" Solid (Stop Bar) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
220	653	LF	Remove Existing Reflective Pavement Marking TY I White 24" Solid (Cross Walk) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
221	16	EA	Remove Existing Reflective Pavement Marking TY I Arrow complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
222	15	EA	Remove Existing Reflective Pavement Marking TY I Word complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
223	671	LF	Remove Existing Reflective Pavement Marking TY I Yellow Double 4" Solid complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$

Bid Form
City of McKinney
Intersection Capacity Improvements (FY23)
Bid No. 25-59ITB CIP # ST2303

Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
224	525	LF	Remove Existing Reflective Pavement Marking TY I Yellow 6" Solid complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
225	133	LF	Remove Existing Reflective Pavement Marking TY I Yellow 12" Solid complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
226	401	 LF	Remove Existing Reflective Pavement Marking TY I White 6" Dot Puppy Tracks complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ LF	\$
227	7	EA	Remove Existing Traffic Sign complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
228	106	EA	Remove Reflective Pavement Marking TY II-C-R complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
300	3,286	CY	Unclassified Street Excavation complete in place, the sum of, _____ Dollars and _____ Cents per CUBIC YARD	/ CY	\$
301	852	CY	Compacted Earth Fill complete in place, the sum of, _____ Dollars and _____ Cents per CUBIC YARD	/ CY	\$
302	2,041	SY	Furnish & Install 8" Flexbase with Geogrid complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
303	5,867	SY	Furnish & Install 20" Lime Stabilized Subgrade complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
304	294	TON	Furnish & Install Lime complete in place, the sum of, _____ Dollars and _____ Cents per TON	/ TON	\$
305	5,867	SY	Furnish & Install 4" Type B HMA (PG-64-22) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
306	3,659	SY	Furnish & Install 10" CRCP (TXDOT Class P) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
307	 1,618	SY	Furnish & Install 8" Reinforced Concrete Pavement complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$

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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
308	560	SY	Furnish & Install 6" Reinforced Concrete Driveway complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
309	1,480	LF	Furnish & Install 6" Monolithic Curb & Gutter complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
310	3,885	LF	Furnish & Install Type II Curb (Mono) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
311	5	EA	Furnish & Install Monolithic Median Nose - Type A complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
312	3	EA	Furnish & Install Monolithic Median Nose - Type B complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
313	95	SY	Furnish & Install Colored Textured Concrete complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
314	601	SY	Furnish & Install Concrete Median complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
315	3	EA	Furnish & Install 6' Mower Ramp complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
316	1,162	SY	Furnish & Install 4" Reinforced Concrete Sidewalk (Width Varies) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
317	228	SY	Furnish & Install 5" Reinforced Concrete Trail (Width Varies) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
318	21	EA	Furnish & Install Barrier Free Ramp complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
319	2,570	SY	Furnish & Install Solid Sod complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE YARD	/ SY	\$
320	211	LF	Furnish and Install Curb Wall complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$

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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
321	1	LS	Furnish & Install Landscaping, Including Tree Lighting complete in place, the sum of, _____ Dollars and _____ Cents per LUMP SUM	/ LS	\$
322	65	LF	Furnish and Install Pedestrian Rail complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
400	1,590	LF	Reflective Pavement Marking TY I White 6" Skip complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
401	1,869	LF	Reflective Pavement Marking TY I White 6" Dot - Puppy Track complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
402	3,037	LF	Reflective Pavement Marking TY I White 6" Solid complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
403	 6,532	LF	Reflective Pavement Marking TY I White 8" Solid complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
404	641	LF	Reflective Pavement Marking TY I White 24" Solid - Stop Bar complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
405	977	LF	Reflective Pavement Marking TY I White 24" Solid - Crosswalk complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
406	75	EA	Reflective Pavement Marking TY I White Arrow complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
407	16	EA	Reflective Pavement Marking TY I White Word complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
408	240	LF	Reflective Pavement Marking TY I Yellow Double 4" Solid (Detail E) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
409	2,482	LF	Reflective Pavement Marking TY I Yellow 6" Solid complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
410	494	LF	Reflective Pavement Marking TY I Yellow Double 4" Solid (Detail K) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$

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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
411	133	LF	Reflective Pavement Marking TY I Yellow 12" Solid - Crosshatch complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
412	502	EA	Reflective Pavement Marking TY II-C-R complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
413	37	EA	Reflective Pavement Marking TY II-A-A complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
414	48	LF	Reflective Pavement Marking Fire Lane Striping complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
415	7	EA	Furnish & Install Traffic Sign complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
500	4	EA	Relocate Water Meter complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
600	1	EA	Furnish & Install 8' Recessed Curb Inlet complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
601	4	EA	Furnish & Install 10' TXDOT Curb Inlet Base (PB) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
602	4	EA	Furnish & Install 15' TXDOT Curb Inlet Base (PB) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
603	4	EA	Furnish & Install 10' TXDOT Curb Inlet Top (PCO) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
604	5	EA	Furnish & Install 15' TXDOT Curb Inlet Top (PCO) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
605	3	EA	Furnish & Install 10' TXDOT Junction Box Lid (PSL) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
606	3	EA	Furnish & Install 15' TXDOT Junction Box Lid (PSL) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$

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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
607	77	LF	Furnish & Install 18" Class III RCP complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
608	14	LF	Furnish & Install 21" Class III RCP complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
609	10	LF	Furnish & Install 24" Class III RCP complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
700	56	LF	Drill Shaft (Trf Sig Pole) (24 In) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
701	12	LF	Drill Shaft (Trf Sig Pole) (30 In) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
702	54	LF	Drill Shaft (Trf Sig Pole) (48 In) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
703	320	LF	Conduit (Pvc) (Sched 40)(2")(Trench) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
704	325	LF	Conduit (Pvc) (Sched 40)(3")(Trench) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
705	1,010	LF	Conduit (Pvc) (Sched 40)(3")(Bore) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
706	5	LF	Conduit (Pvc) (Sched 40)(4")(Trench) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
707	2,100	LF	Elec Conductor (No.6) Bare complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
708	1,450	LF	Elec Conductor (No.6) Insulated complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
709	2,570	LF	Elec Conductor (No.8) Insulated complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$

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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
710	12	EA	Ground Box Ty D w/ Apron complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
711	12	EA	Remove Ground Box complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
712	15	EA	Backplate (12 In)(3 Sec) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
713	7	EA	Backplate (12 In)(4 Sec) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
714	8	EA	Backplate (12 In)(5 Sec) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
715	12	EA	Ped Sig Sec (12")(Led)(Countdown/ 2 Indications) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
716	23	EA	Veh Sig Sec (12 In)(Red) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
717	23	EA	Veh Sig Sec (12 In)(Yellow) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
718	23	EA	Veh Sig Sec (12 In)(Green) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
719	14	EA	Veh Sig Sec (12 In)(Red Arrow) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
720	15	EA	Veh Sig Sec (12 In)(Yellow Arrow) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
721	15	EA	Veh Sig Sec (12 In)(Green Arrow) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
722	2,275	LF	Traffic Signal Cable (Ty C)(12 Awg)(2 Cndr) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$

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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
723	790	LF	Traffic Signal Cable (Ty A)(14 Awg)(5 Cndr) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
724	945	LF	Traffic Signal Cable (Ty A)(14 Awg)(7 Cndr) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
725	2,180	LF	Traffic Signal Cable (Ty A)(14 Awg)(10 Cndr) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
726	1,150	LF	Traffic Signal Cable (Ty A)(14 Awg)(20 Cndr) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
727	1	EA	Ins Traffic Signal Assembly (S) 1 Arm (32')(Lum) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
728	1	EA	Ins Traffic Signal Assemble (S) 1 Arm (55')(Lum) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
729	2	EA	Ins Traffic Signal Assemble (S) 1 Arm (65')(Lum) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
730	12	EA	Install Ped Pole Assembly complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
731	2	EA	Remove Ped Pole Assembly complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
732	12	EA	Ins Ped Detect (2 In Push Button) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
733	12	EA	Pedestrian Sign (R10-3e) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
734	690	LF	Vivds Cable (Install) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
735	5	EA	Vivds Camera (Install) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$

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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
736	1,180	LF	Opticom Cable (Install) complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
737	5	EA	Opticom Receiver (Install) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
738	22	SF	Install Aluminum Signs (Ty A) complete in place, the sum of, _____ Dollars and _____ Cents per SQUARE FOOT	/ SF	\$
739	11	EA	Relocate Aluminum Signs (Ty A) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
740	2	EA	Remove Aluminum Signs (Ty A) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
741	1	EA	Remove Control Cabinet (Grnd Mnt) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
742	1	EA	Install Control Cabinet (Grnd Mnt) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
743	4	EA	Remove Signal Pole Assembly complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
744	1	EA	ITS Pole (40 ft)(Relocate) complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
800	56	VF	Drill Shaft (Rdwy Ill Pole) (30 In) complete in place, the sum of, _____ Dollars and _____ Cents per TON	/ VF	\$
801	7	EA	Relocate Light Pole complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
802	4	EA	Connect to Existing Conduit (Pvc)(Sched 40)(2") complete in place, the sum of, _____ Dollars and _____ Cents per EACH	/ EA	\$
803	94	LF	Conduit (Pvc) (Sched 40)(2")(Trench)(Including relocating exsiting cond complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$



**Bid Form
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Item No.	Quantity	Unit	Description & Written Unit Price	Unit Price	Total
804	872	LF	Conduit (Pvc) (Sched 40)(2")(Bore)(Including relocating exsiting conduc complete in place, the sum of, _____ Dollars and _____ Cents per LINEAR FOOT	/ LF	\$
TOTAL BID AMOUNT			_____ Dollars and _____ Cents		\$

- NOTES:
1. CONTRACTOR IS TO BID THIS PROJECT PER THE BID SCHEDULE.
 2. CONTRACTOR IS TO BID ALL ITEMS PER THE QUANTITY AND UNIT AS DETAILED IN THE BID SCHEDULE.
 3. ANY BID LEFT BLANK OR BID AS \$0.00 WILL BE CONSIDERED A NON-BID AND WILL DISQUALIFY THE ENTIRE BID.
 4. ANY CHANGE TO THE QUANTITIES OR UNITS WILL BE CONSIDERED ALTERING THE BID AND WILL BE DISQUALIFIED.

Measurement and payment for this item will be the price bid per EACH junction box lid installed, and will be full compensation for all materials, equipment, labor, and any other incidentals necessary.

Bid Items included under this SP are:

- a. 10' TXDOT Junction Box Lid (PSL)
- b. 15' TXDOT Junction Box Lid (PSL)

SP-46: CLASS III RCP STORM SEWER PIPE (ALL SIZES)

All work will be done and paid for in accordance with NCTCOG Items 501.6 and 508, TxDOT Item 464, and as described within this bid item.

This item will include all sizes of reinforced concrete storm sewer pipe shown in the plans, including bends, transitions, and branches. Included in this bid item will be all necessary trench safety, backfill and embedment required for the installation of the proposed line.

Measurement and payment for this item will be made on the basis of the price bid per LINEAR FOOT of each size storm sewer pipe and will be full compensation for all materials, equipment, labor, and any other incidentals necessary to install the storm sewer.

Bid Items included under this SP are:

- a. 18" Class III RCP
- b. 21" Class III RCP
- c. 24" Class III RCP

SP-47: TRAFFIC SIGNAL MODIFICATIONS

All work will be done and paid for in accordance with TxDOT Items 416, 618, 620, 624, 680, 682, 684, 686, 687, 688, 690, 6006, 6011, and LMA-12.



SP-48: ILLUMINATION

All work will be done and paid for in accordance with TxDOT Items 416, 610, and 612. All pole relocations shall exclude luminaires. Luminaires shall be installed by others after completion of this project