

F.R. DIV. 6	TEXAS	STP 96(830)MM	SHEET 6
ROCKWALL COUNTY	HWY FM 740	CONT 1014-3-41	

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 618: CONT'D
ALLOWABLE OVERCUT SHALL BE 1" IN DIAMETER.

THE CONTRACTOR SHALL INSTALL A NON-METALLIC PULL ROPE IN CONDUIT RUNS IN EXCESS OF 50 FEET.

A CLEANER-PRIMER SHALL BE USED ON ALL PVC TO PVC JOINTS BEFORE APPLICATION OF PVC CEMENT.

ALL PROPOSED CONDUIT SHALL BE PLACED BY THE OPEN TRENCH METHOD BELOW THE PROPOSED SUBGRADE, UNLESS OTHERWISE INDICATED ON THE PLANS. IF THE CONTRACTOR FAILS TO PLACE THE CONDUIT AS PROPOSED, HE CAN CHOOSE A METHOD APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE STATE SUCH AS BORING OR OPEN CUTTING NEW PAVEMENT.

CONDUIT INSTALLED FOR FUTURE USE SHALL BE CAPPED USING STANDARD WEATHER TIGHT CONDUIT CAPS, AS APPROVED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

CONDUIT INSTALLED FOR FUTURE IRRIGATION SHALL BE CAPPED USING STANDARD WEATHER TIGHT CONDUIT CAPS AS APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM. A "X" SHALL BE CHISELED ON THE CURB ABOVE THE CONDUIT TO MARK ITS LOCATION.

ITEM 624:

GROUND BOX COVERS FOR FUTURE ILLUMINATION SHALL BE PERMANENTLY LABELED "STREET LIGHTS" AND GROUND BOX COVERS FOR SIGNALS SHALL BE LABELED "TRAFFIC SIGNALS".

ITEM 627:

THE TIMBER POLE HEIGHTS SHOWN ON THE PLANS AND IN THE MATERIAL SUMMARY ARE TO BE USED FOR BIDDING PURPOSES ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR IN COOPERATION WITH THE ENGINEER, SHALL MAKE FIELD MEASUREMENTS TO DETERMINE THE ACTUAL POLE HEIGHT NECESSARY TO ENSURE A VERTICAL CLEARANCE OF 17 FEET MINIMUM, 19 FEET MAXIMUM FROM THE HIGH POINT ON THE ROADWAY SURFACE TO THE SPAN. THESE FIELD MEASUREMENTS AND ELEVATIONS SHALL BE DETERMINED FROM THE ACTUAL FIELD LOCATION OF THE POLES, CONSIDERING ALL ABOVE AND BELOW GROUND UTILITIES AND THE PROPOSED ROADWAY ELEVATIONS. THE CONTRACTOR SHALL PLACE DUCT SEAL AT THE ENDS OF ALL CONDUIT WHERE CONDUCTORS AND/OR CABLES ARE PRESENT AND

SPECIFICATION DATA

06/14 SHEET M

F.R. DIV. 6	TEXAS	STP 96(830)MM	SHEET 6
ROCKWALL COUNTY	HWY FM 740	CONT 1014-3-41	

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 627: CONT'D
REQUIRED FOR THE INTENDED OPERATION OF THE TRAFFIC SIGNALS. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THIS ITEM.

ITEM 628:

CONDUIT AND CONDUCTORS ATTACHED TO THE SERVICE POLE AND UNDERGROUND WITHIN 12 INCHES OF THE SERVICE POLE WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 681.

SERVICE ENCLOSURE SHALL BE ATTACHED WITH GALVANIZED CHANNEL (UNISTRUT, KINDORF OR EQUAL). THE POLE SHALL BE NOTCHED IN TWO PLACES TO PROVIDE FLAT SURFACES. ENDS OF CHANNEL SHALL BE PAINTED WITH ZINC RICH PAINT.

THE ELECTRICAL SERVICE FOR THIS PROJECT SHALL BE BILLED IN THE NAME OF THE STATE.

ITEM 666:

THE PAINT FOR THIS ITEM SHALL BE PURCHASED FROM THE DEPARTMENT AT THE FOLLOWING PRICES:

QNT NO.	DESCRIPTION	UNIT	PRICE
137959	PAINT; TRAFFIC WHITE ACRYLIC WATER BORNE	5 GAL.	\$ 27.91
137960	PAINT; TRAFFIC YELLOW ACRYLIC WATER BORNE	5 GAL.	\$ 32.84
117702	PAINT; TRAFFIC WHITE ACRYLIC WATER BORNE	55 GAL.	\$ 290.16
117703	PAINT; TRAFFIC YELLOW ACRYLIC WATER BORNE	55 GAL.	\$ 359.62

ANY NECESSARY PILOT MARKINGS FOR ANY STRIPING OPERATION SHALL BE THE SAME COLOR AS THE PROPOSED STRIPE. PILOT MARKINGS SHALL BE LIMITED TO ONE 2" DIAMETER MARK FOR EACH 100' OF STRIPE. ALL PILOT MARKINGS SHALL BE TOTALLY OBLITERATED AFTER COMPLETION OF THE STRIPING OPERATION.

SPECIFICATION DATA

06/14 SHEET N

F.R. DIV. 6	TEXAS	STP 96(830)MM	SHEET 6
ROCKWALL COUNTY	HWY FM 740	CONT 1014-3-41	

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 681:

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ALL MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETE SIGNAL SYSTEM AT THE PROPOSED LOCATION. IN ADDITION TO THESE ITEMS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

- FURNISHING AND INSTALLING ALL SIGNS FOR MOUNTING ON SPAN WIRES. ALL SIGNS SHALL BE FURNISHED IN ACCORDANCE WITH ITEM 636 AND SHALL BE CONSIDERED SUBSIDIARY TO ITEM 681. FIVE (5) SETS OF SHOP DRAWINGS SHALL BE SUBMITTED FOR STREET NAME SIGNS.
- ADJUSTMENT AND MAINTENANCE OF THE TEMPORARY TRAFFIC SIGNALS WILL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE LAYOUT SHEETS AND TRAFFIC CONTROL PLAN DURING THE ROADWAY CONSTRUCTION. THIS INCLUDES MAINTAINING THE TRAFFIC SIGNAL TIMING FOR THIS SAME PERIOD. ALL TIMING ADJUSTMENTS DURING CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- CONTRACTOR MAINTENANCE SHALL BEGIN WHEN TEMPORARY SIGNAL CONSTRUCTION BEGINS AND CONTINUE UNTIL THE PROJECT IS COMPLETED.
- ALL SIGNAL HEADS THAT ARE TO BE RELOCATED SHALL BE DONE SO DURING THE SAME DAY. PORTABLE STOP SIGNS AT ALL APPROACHES WILL BE REQUIRED ANY TIME THE SIGNALS ARE INOPERABLE.
- DURING THE ROADWAY CONSTRUCTION PERIOD, THE CONTRACTOR SHALL UTILIZE QUALIFIED PERSONNEL TO RESPOND TO AND DIAGNOSE ALL TROUBLE CALLS (INCLUDING SIGNAL TIMING). THE CONTRACTOR SHALL REPAIR ANY MALFUNCTIONS TO SIGNAL EQUIPMENT HE SUPPLIED ON THE PROJECT AS WELL AS TO MAKE TIMING ADJUSTMENTS DUE TO ALL COMPLAINTS RECEIVED. A LOCAL TELEPHONE NUMBER (NOT SUBJECT TO FREQUENT CHANGES) WHERE TROUBLE CALLS ARE TO BE RECEIVED ON A 24-HOUR BASIS SHALL BE PROVIDED TO THE ENGINEER BY THE CONTRACTOR. THE CONTRACTOR'S RESPONSE TIME TO REPORTED CALLS SHALL BE WITHIN A REASONABLE TRAVEL TIME FROM A DALLAS ADDRESS, BUT NOT MORE THAN TWO (2) HOURS MAXIMUM. APPROPRIATE REPAIRS SHALL BE MADE WITHIN 24 HOURS. TIMING ADJUSTMENTS SHALL BE MADE BEFORE THE NEXT WEEKDAY PEAK PERIOD UNLESS DEEMED AN EMERGENCY BY THE ENGINEER. THE CONTRACTOR SHALL PLACE A LOG BOOK IN EACH CONTROLLER CABINET AND KEEP A RECORD OF EACH TROUBLE CALL REPORTED. HE SHALL NOTIFY THE ENGINEER

SPECIFICATION DATA

06/14 SHEET O

F.R. DIV. 6	TEXAS	STP 96(830)MM	SHEET 6
ROCKWALL COUNTY	HWY FM 740	CONT 1014-3-41	

GENERAL NOTES AND SPECIFICATION DATA--

ITEM 681: CONT'D
OF EACH TROUBLE CALL. THE ERROR LOG IN THE CONFLICT MONITOR SHALL NOT BE CLEARED WITHOUT THE APPROVAL OF THE ENGINEER.

- SUBMITTAL LITERATURE SHALL BE PROVIDED FOR ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL HAVE A QUALIFIED TECHNICIAN ON THE PROJECT SITE TO PLACE THE TRAFFIC SIGNALS IN OPERATION.
- SIGNAL HEAD LOCATIONS SHOWN ARE APPROXIMATE AND WILL REQUIRE ADJUSTMENTS DURING AND AFTER CONSTRUCTION. SIGNAL HEADS SHOULD BE OVER THE THROUGH LANES OF TRAFFIC. SEE THE TRAFFIC CONTROL PLAN FOR FURTHER INFORMATION REGARDING THE SEQUENCE OF WORK FOR THE PROJECT.
- THE TRAFFIC SIGNAL CABLE LENGTHS SHOWN ON THE "SIGNAL HEAD PLACEMENT CHART" ARE THE MAXIMUM LENGTHS NEEDED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL THE STEEL STRAIN POLES SUPPLIED BY THE STATE AS SHOWN ON THE PLANS. ANCHOR BOLTS FOR THE STRAIN POLES SHALL BE FURNISHED BY THE CONTRACTOR. THE STRAIN POLES CAN BE PICKED UP AT THE TxDOT MAINTENANCE YARD AT 592 EAST SH 121 IN LEWISVILLE.
- AN EIGHT-PHASE NEMA CONTROLLER COMPLETE WITH CABINET AND ACCESSORIES WILL BE PROVIDED BY TxDOT FOR THIS PROJECT. THE CONTROLLER AND CABINET CAN BE PICKED UP AT THE TxDOT SIGNAL SHOP, 9700 EAST R. L. THORNTON FREEWAY, DALLAS.
- CONTACT THE TxDOT SIGNAL SHOP AT (214) 320-6682 TWO WEEKS PRIOR TO NEEDING THE SIGNAL EQUIPMENT TO BE SUPPLIED BY THE STATE.
- THE CONTRACTOR SHALL INSTALL THE OPTICOM EQUIPMENT SUPPLIED BY THE CITY OF ROCKWALL.

THE LIST OF MATERIAL BELOW IS FOR THE CONTRACTOR'S INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ITEMS AND QUANTITIES LISTED BELOW.

SPECIFICATION DATA

06/14 SHEET P

F.R. DIV. 6	TEXAS	STP 96(830)MM	SHEET 6
ROCKWALL COUNTY	HWY FM 740	CONT 1014-3-41	

GENERAL NOTES AND SPECIFICATION DATA--

LIST OF MATERIAL/LABOR SUBSIDIARY TO ITEM 681 FM 740 AND FM 3097

DESCRIPTION	UNIT	QUANTITY
40' TIMBER POLE (CLASS 2 POLE)	EA	2
INSTALL 30' STRAIN POLE PROVIDED BY STATE	EA	2
FOUNDATION FOR TRAF SIG (36 INCH)	LF	26
1 3/4" DIAMETER ANCHOR BOLT ASSY.	SET	2
8' LUMINAIRE MAST ARM FOR WOOD POLE MOUNTING WITH 250 WATT HPS LUMINAIRE	EA	2
YELLOW PLASTIC GUY GUARD	EA	4
DOUBLE EYE ANCHOR ROD	EA	4
GROUND ANCHOR	EA	4
INSTALL POLE MOUNTED CONTROLLER CABINET WITH 8 PHASE NEMA CONTROLLER AND ACCESSORIES	EA	1
5/8" X 8' COPPERCLAD GROUND ROD AND CLAMP	EA	1
CABLE STRAPS	EA	420
3/8" STEEL GUY CABLE	LF	1750
SIGN R10-12	EA	4
SIGN R3-SR	EA	1
STREET NAME SIGNS	EA	4
12 CIRCUIT DISCONNECT HANGER	EA	8
12" SIGNAL SECTION	EA	32
3-SECTION SIGNAL HEAD BACKPLATE	EA	4

SPECIFICATION DATA

06/14 SHEET Q

F.R. DIV. 6	TEXAS	STP 96(830)MM	SHEET 6
ROCKWALL COUNTY	HWY FM 740	CONT 1014-3-41	

GENERAL NOTES AND SPECIFICATION DATA--

CONT'D

DESCRIPTION	UNIT	QUANTITY
5-SECTION SIGNAL HEAD BACKPLATE	EA	4
ELEC SERV TY S(120/240)000(NS)6S(1)TP(0)	EA	1
1 1/2" RM CONDUIT	LF	14
2" RM CONDUIT	LF	4
3" RM CONDUIT	LF	22
1 1/2" WEATHERHEAD	EA	2
3" WEATHERHEAD	EA	1
NO. 6 AWG BARE CNDR.	LF	37
NO. 6 AWG TYPE XHHW CNDR.	LF	74
NO. 8 AWG TYPE XHHW CNDR.	LF	1023
7 CNDR. TRAF SIGNAL CABLE (TYPE A)	LF	720
INSTALL OPTICOM EQUIPMENT SUPPLIED BY CITY OF ROCKWALL	-	-

LIST OF MATERIAL SUPPLIED BY THE STATE FM 740 AND FM 3097

DESCRIPTION	UNIT	QUANTITY
30' STEEL STRAIN POLE	EA	2
POLE MOUNTED CONTROLLER CABINET COMPLETE WITH 8 PHASE NEMA CONTROLLER AND ACCESSORIES	EA	1

SPECIFICATION DATA

06/14 SHEET R