

MAILBOX RELOCATION

DESCRIPTION. THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH DETAILS, ON SHEET 16 AND ATTACHING AN OWNER-SUPPLIED MAILBOX, WHEREVER EXISTING MAILBOXES CONFLICT WITH THE PROPOSED PAVEMENT OR OTHERWISE ESTABLISHED BY THE ENGINEER.

MATERIALS. WOOD POSTS SHALL BE NOMINAL 4" X 4" SQUARE OR 4 1/2" DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO AASHTO M 181.

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL - GRADE GALVANIZED STEEL.

STEEL POSTS. POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

MOUNTING BOXES. SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

BASIS OF PAYMENT. PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.12. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR THE TYPE SPECIFIED, COMPLETE IN PLACE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

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| ITEM SPECIAL | MAILBOX SUPPORT |
| | 115 (SINGLE) EACH |
| | 4 (DOUBLE) EACH |

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED UNTIL AUTHORIZED BY THE ENGINEER. QUANTITIES NOT USED SHALL BE NON-PERFORMED.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE, GRADE AND REINSTALL GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE AND READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF SAID COMPLIANCE.

BARRIER REFLECTORS, TYPE A, SHALL BE MOUNTED ON GUARDRAIL.

BARRIER REFLECTORS, TYPE B, SHALL BE MOUNTED ON BRIDGE PARAPETS.

THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY AND ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR PROPOSED GUARDRAIL AND EXISTING GUARDRAIL AND BRIDGE PARAPETS TO REMAIN.

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| ITEM 802 BARRIER REFLECTORS, TYPE A | 92 EACH |
| ITEM 802 BARRIER REFLECTORS, TYPE B | 17 EACH |

GENERAL NOTES

HOUSE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS OR YARD DRAINS, DISTURBED BY THE PROPOSED WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO A STORM SEWER, MANHOLE, CATCH BASIN OR THROUGH THE CURB.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO PROVIDE FOR THIS CONTINGENCY:

| ITEM | DESCRIPTION | QUANTITY |
|------|---|-------------|
| 603 | 6" CONDUIT, TYPE E, 706.08 OR 707.19 PS 46 MIN. | 100 LIN.FT. |

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED UNTIL AUTHORIZED BY THE ENGINEER.

UNRECORDED SANITARY CONNECTIONS

ANY UNRECORDED ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SEWER, AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

| ITEM | DESCRIPTION | QUANTITY |
|------|---|-------------|
| 603 | 6" CONDUIT, TYPE C, 706.08 WITH JOINTS AS PER 706.12 | 100 LIN.FT. |
| 603 | 6" CONDUIT, TYPE B, AS PER PLAN, 706.08 WITH JOINTS AS PER 706.12 | 100 LIN.FT. |

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED BY THE CONTRACTOR UNLESS AUTHORIZED BY THE ENGINEER.

WATER SERVICE RELOCATION

EXISTING WATER SERVICES DISTURBED BY THE PROPOSED WORK SHALL BE RELOCATED AS NECESSARY AS DIRECTED BY THE ENGINEER AND THE LAKE COUNTY DEPARTMENT OF UTILITIES. NEW SERVICE BRANCHES SHALL BE REPLACED FROM THE WATER MAIN TO THE EXISTING WATER METER OR SERVICE STOP WITH NO SPLICES TO THE EXISTING SERVICE BRANCH. NEW CORPORATION STOPS SHALL BE INSTALLED, AS DIRECTED BY THE ENGINEER AND THE LAKE COUNTY DEPARTMENT OF UTILITIES. CORPORATION STOPS SHALL BE INSTALLED BY THE LAKE COUNTY DEPARTMENT OF UTILITIES OR BY A CONTRACTOR APPROVED BY THE LAKE COUNTY DEPARTMENT OF UTILITIES. COST FOR THIS WORK IS TO BE INCLUDED IN THE LINEAL FOOT UNIT PRICE BID FOR ITEM 638 COPPER SERVICE BRANCH.

THE FOLLOWING ESTIMATED CONTINGENCY QUANTITIES FOR WATER SERVICE RELOCATION ARE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER.

| ITEM | DESCRIPTION | QUANTITY |
|------|--|-------------|
| 638 | 1" COPPER SERVICE BRANCH | 100 LIN.FT. |
| 638 | 3/4" COPPER SERVICE BRANCH | 100 LIN.FT. |
| 638 | SERVICE STOP AND SERVICE BOX REMOVED AND RESET | 10 EACH |
| 638 | SERVICE BOX ADJUSTED TO GRADE | 10 EACH |

THE CONTRACTOR SHALL NOT ORDER ANY OF THE ABOVE MATERIALS UNTIL DIRECTED BY THE ENGINEER AND THE LAKE COUNTY DEPARTMENT OF UTILITIES. IN THE EVENT NO WATER SERVICE RELOCATION IS DEEMED NECESSARY, THE ABOVE ITEMS SHALL BE NONPERFORMED.

CONNECTIONS BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "BEAM RAIL SPLICE" AS SHOWN ON STANDARD DRAWING GR-1.1. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE GUARDRAIL RUNS.

LOCATION OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION TO THE TRAFFIC.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE STATE.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PERTINENT 603 CONDUIT ITEMS OF THE CONTRACT.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS.

ITEM 604 - INLETS, CATCH BASINS, AND MANHOLES

THE COST FOR ALL INLETS, CATCH BASINS, AND MANHOLES TO BE REMOVED AND REPLACED WITH EITHER A NEW INLET, CATCH BASIN, OR MANHOLE AT THE SAME LOCATION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE NEW PERTINENT 604 ITEM.

ELEVATIONS LISTED ON THE PLAN SHEETS (PROFILE VIEW) FOR PROPOSED INLETS REFER TO THE PROPOSED INLET WINDOW FLOW LINE ELEVATION AT THE CENTER OF THE INLET. THIS ELEVATION TAKES INTO ACCOUNT THE 2" DEPRESSION FROM THE TYPICAL GUTTER ELEVATION.

ALL RIM ELEVATIONS SHOWN ON PLANS SHALL BE CONSIDERED ELEVATIONS OF THE TOPS OF CASTINGS.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED:

THE CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT-OF-WAY FOR SALVAGE BY THE CITY OF EASTLAKE FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 202 ITEM.

ITEM 604 MANHOLE, CATCH BASINS AND INLETS RECONSTRUCTED TO GRADE

THE CONTRACTOR AND THE PROJECT ENGINEER SHALL FIELD CHECK ALL EXISTING MANHOLES AND CATCH BASINS LOCATED WITHIN THE LIMITS OF THE PROJECT. ANY MANHOLE OR CATCH BASIN FOUND THAT EXHIBITS SUBSTANTIAL DETERIORATION AND REQUIRES MORE WORK THAN IS SPECIFIED UNDER CASTINGS ADJUSTED TO GRADE, SHALL BE RECONSTRUCTED TO GRADE AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO PROVIDE FOR THIS CONTINGENCY:

| ITEM | DESCRIPTION | QUANTITY |
|------|------------------------------------|----------|
| 604 | MANHOLE RECONSTRUCTED TO GRADE | 10 EACH |
| 604 | CATCH BASIN RECONSTRUCTED TO GRADE | 10 EACH |

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PLAN 81

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

MANHOLES, CATCH BASINS, VALVE BOXES, AND MONUMENT BOXES ADJUSTED TO GRADE

ALL CASTINGS, EXCEPT THOSE BY PRIVATE COMPANIES, SHALL BE ADJUSTED BY THE CONTRACTOR. CATCH BASINS SHALL BE ADJUSTED TO PROVIDE A LOCAL DEPRESSION PER THE STANDARD CONSTRUCTION DRAWINGS. THE TIME BETWEEN ADJUSTING THE CASTING AND RESURFACING SHALL BE KEPT TO AN ABSOLUTE MINIMUM. ESTIMATED QUANTITIES FOR ADJUSTMENTS TO MANHOLES, CATCH BASINS, AND MONUMENTS ARE NOTED IN THE PLAN SHEETS. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PERFORM ADJUSTMENTS TO VALVE BOXES AS DIRECTED BY THE ENGINEER:

| ITEM | DESCRIPTION | QUANTITY |
|------|-----------------------------|----------|
| 638 | VALVE BOX ADJUSTED TO GRADE | 57 EACH |

NONE OF THE ABOVE MATERIALS SHALL BE ORDERED UNTIL AUTHORIZED BY THE ENGINEER.

ADDITIONAL DRAINAGE FACILITIES

THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY AND ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR THE STORM SEWER REPAIRS AND FOR PERMANENTLY COLLECTING AND DIVERTING STORM DRAINAGE TO THE STORM DRAINAGE SYSTEM FROM ADJACENT LOW LYING AREAS.

| ITEM | DESCRIPTION | QUANTITY |
|------|--|-------------|
| 202 | PIPE REMOVED, 24" AND UNDER | 400 LIN.FT. |
| 603 | 8" CONDUIT, TYPE B, AS PER PLAN, 706.08 | 100 LIN.FT. |
| 603 | 10" CONDUIT, TYPE B, AS PER PLAN, 706.08 | 100 LIN.FT. |
| 603 | 12" CONDUIT, TYPE B, AS PER PLAN, 706.02 OR 706.08 | 200 LIN.FT. |
| 603 | 12" CONDUIT, TYPE C, 706.02 OR 706.08 | 100 LIN.FT. |
| 604 | CATCH BASIN, NO. 2-2-B | 5 EACH |
| 604 | INLET, NO. 1 | 5 EACH |

NONE OF THE ABOVE QUANTITIES SHALL BE ORDERED UNTIL AUTHORIZED BY THE ENGINEER.

ITEM 653 TOPSOIL FURNISHED AND PLACED, AS PER PLAN

THIS ITEM SHALL BE PLACED IN A 2-INCH LAYER UNDER SODDING. THE IGNITION TEST SPECIFIED IN 653.02 CAN BE WAIVED FOR THIS PROJECT. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

| ITEM | DESCRIPTION | QUANTITY |
|------|---|------------|
| 653 | TOPSOIL FURNISHED AND PLACED, AS PER PLAN | 864 CU.YD. |