

SUMMARY OF QUANTITIES

IRRIGATION NOTES

GENERAL NOTES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	Mobilization	L.S.	
	Prepare ROW	S.Y.	
	Remove Concrete Curb and/or Curb/Gutter	L.F.	
	Remove Concrete Pavement	S.Y.	
	Topsoil	C.Y.	
	Cement Treated Base (6")	S.Y.	
	Reinforced Concrete Pavement (8")	S.Y.	
	Reinforced Concrete Sidewalk (4")	S.Y.	
	Barricading, Signing and Traffic Handling	L.S.	
	Monolithic Curb	L.F.	
	Reinforced Concrete Curb and Gutter	L.F.	
	Unclassified Street Excavation	C.Y.	
	Sawed Breakout Groove	L.F.	
	Bermuda Block Sodding	S.Y.	
	Remove Existing Inlet	EA.	
	6" Recessed Curb Inlet	EA.	
	18" Reinforced Concrete Pipe (RCP)	L.F.	
	36" Reinforced Concrete Pipe (RCP)	L.F.	
	Remove Existing Headwall with Wingwalls	EA.	
	Install New Headwall with Wingwalls	EA.	
	Stimsonite 911 RW 2-way Reflective Marker	EA.	
	Permark P-7 (4") Non-reflective Ceramic Marker	EA.	
	Permark P-7 (4") Reflective Ceramic Marker	EA.	
	Permark P18-1 White Ceramic Pavement Marker	EA.	
	6" Reflective White Painted Stripe	L.F.	
	4" Reflective White Painted Stripe	L.F.	
	6" HMAC Pavement, Type A Base Course	S.Y.	
	2" HMAC Pavement, Type D Surface Course	S.Y.	
	Relocate Traffic Light, Traffic Box and all appurtenances	EA.	
	Relocate Street Light	EA.	
	Relocate Sign	EA.	
	Relocate Water Meter	EA.	

- All pipe to be Schedule 40 belled PVC. Put not more than two (2) pipes in any one trench.
- Fittings: No crosses are permitted. Separate tees and/or elbows to be at least 12". Reduction tees are preferred over use of reducer bushings. Only Spears and/or Lasco are permitted. Allow 18" outside of sleeve before first fitting.
- Wiring: 14 ga. UF, Red - Control wires. White - Ground. Anytime wiring changes direction, such as at an elbow or tee, allow a loop at least one hand width (10 inches) alongside the fitting at that location.
- Use King connectors for all wire splices. Allow at least 36" of pigtailed wire at each splice. All splices are to be housed in standard (large) rectangular plastic valve boxes, including valves.
- Only Weathermatic 11000 Series plastic valves are permitted. They are to be located within standard (large) rectangular plastic valve boxes with 4"-6" of pea gravel placed underneath the valve in such a manner as to prevent soil infiltration into the box.
- Only Buckner Model 30A single lug 3/4" OCV's are permitted. They are to be connected to a threaded fitting. Teflon paste and appropriate length gray Schedule 80 nipples, and Schedule 40 fittings are to be used. House OCV in a 10" round plastic valve box.
- All heads are to be attached to threaded fittings via 6" polyethylene nipples cut to the appropriate length. All nozzle sizes will be designated on the plans.

Pop-ups: Only Toro 570C Series are permitted, unless otherwise noted. Install 3/4" above finished grade. Turf - 4" (includes tree bubblers within turf areas, use Toro SB-PC nozzles). Very low ground cover (<6" mature height) - 6" Ground cover and low growing shrubs - 12" HP. Funny pipe for 12" HP installations with owner approval is acceptable if conditions warrant.

Bubblers: Bed areas only. Use Toro 500 Series stream or flood bubblers.

Rotaries: Only Hunter PGP Series are permitted, unless otherwise noted. Install 3/4" above finished grade.

Risers: Use Type-M copper with soldered male ends for Toro 570-S shrub adapters and female ends to attach to short polyethylene nipples screwed into threaded fittings. Owner reserves the right to determine placement of risers versus pop-ups.
- Only Hersey MVR meters with (3) brass flanges are acceptable. Stainless steel bolts and nuts must be used in the installation along with neoprene gaskets. House in appropriate size. (to be determined by Owner), concrete box with lid. To bring box to ground level use bricks or pavers, and backfill inside below meter base with at least 6" of pea gravel. Connection to main must be done by the Town's Water Department and all tap materials must be approved by them.
- Only Febco 805-Y Double Check assemblies are to be used. Connect to meter flange using Teflon paste and gray Schedule 80 nipple at least 6" in length. House in appropriate size. (to be determined by Owner), rectangular plastic valve box. See above meter installation instructions and follow same with the exception of using plastic valve box extensions for increased height. Connect irrigation mainline to DCA using Teflon paste and PVC male adapter.
- Female threaded plastic ball valves with positive T-handle cut off must be installed. House in standard (large) rectangular plastic valve box and follow meter box installation instruction for DCA assembly. Use to isolate every 200' of mainline.
- Only Irritrol MC Plus Series controller is permitted unless otherwise approved and/or noted. NiCad batteries must be supplied with every installation. Controllers are to be installed on the appropriate pedestal affixed to a permanent concrete pad via (4) bolts. All wiring is to enter the pedestal via gray PVC sweep elbows extending through the pad. Control wiring and 120-V service are to be separated with each having its own access elbow. Check Town's electrical codes for proper 120-V service installation. All controllers are to be permanently wired for quick attachment of Irritrol RVC unit; use Irritrol cable ADP-1.
- Use clean and approved loam to backfill all pipe to a depth of at least 6" above top of pipe. All heads and boxes are to be backfilled to grade with loam.
- All sleeves will be Schedule 40 PVC with size and approximate location noted on the plan. All piping underneath paving, including sidewalks, must be sleeved.
- Use PVC-2 solvent. Avoid excessive use and wipe all joints and fittings clean.
- Installer responsible for resetting head and/or box height due to settling. Warranty workmanship for (1) year from the date of completion.

- All materials and workmanship shall conform to the Town of Addison standards and Specifications and the North Central Texas Council of Government (NCTCOG) Standards and Specifications, except as noted. In the event of a conflict, the Town of Addison Standards and Specifications shall govern.
- All locations of underground utility lines are approximate. Contractor shall notify all applicable utility companies 48 hours prior to construction so that underground lines can be marked.

Southwestern Bell Telephone (214) 234-7085
Storer Cable (TCI Cablevision of Dallas) (214) 840-2388
Lone Star Gas (214) 487-3885
TU Electric (214) 323-8913
- The Contractor shall be responsible for public safety during construction and will provide the necessary traffic barricades and warning signage to protect the construction site. Construction barricades shall be in conformance with the Texas Manual on Uniform Traffic Control Devices. In areas where long-term nighttime barricades are used, barricades should include high intensity reflective sheeting.
- All concrete shall have a minimum compressive strength of 3,000 psi at 28 days (minimum 6 sacks of cement per cubic yard) unless otherwise noted. All reinforcing steel and dowel bars in pavement shall be supported and maintained at the correct clearances by the use of bar chairs or other approved support.
- The Contractor is responsible for keeping streets, parking areas, sidewalks, etc., adjacent to the project free of mud and debris from construction.
- Contractor shall assume responsibility for protection of public utilities in the construction of this project. All manholes, valve boxes, fire hydrants, etc., must be adjusted to proper line and grade by the Contractor prior to and/or after placing of permanent paving. The Contractor shall also be responsible for support of existing utility poles, street signs, etc., when excavating in the vicinity of such poles.
- The Town of Addison, City of Farmers Branch and the City of Carrollton Public Works Departments are to be notified (min. 5 working days) prior to any construction of paving and utilities in rights-of-way, easements and alleys for coordination of construction activities and proper notification to Emergency Services.
- All disturbed earth areas are to be finish graded to original or proposed contours, fertilized and hydromulched with bermuda seed according to NCTCOG specifications immediately after construction. Backfill to be select material free of rock and other debris. Contractor shall thoroughly water the hydromulch immediately after placement. The Contractor shall also be responsible for continued maintenance and watering of the newly hydromulched areas until the entire project is completed and accepted by the Town of Addison. Watering of the Bermuda hydromulch shall be done in a manner and quantity as directed by Town of Addison Inspection Personnel. (No separate pay item.)
- Arrangements for construction water shall be made through the Town of Addison.
- Contractor shall maintain adequate sanitary facilities for use by workers throughout construction.
- Contractor shall dispose of all excess excavation and cleared material off site, including broken concrete, rock, trees and vegetation.
- No trees shall be cut except on specific authority of the Town of Addison.
- Where street name signs will be relocated by the Contractor, the Contractor will be required to give 5 days notice in advance of the time a street sign must be relocated to clear construction operations.
- Removal and replacement of fence will be incidental on this project. No pay items will be provided. Any damage to existing fencing shall be repaired at the Contractor's expense.
- The Contractor shall obtain all necessary permits at least 48 hours prior to start of any construction.
- Contractor shall conform to the Occupational Safety and Health Administration's (OSHA) standards for trench safety that are in effect during the period of construction.
- Contractor shall construct barrier-free ramps at all four intersections and adjacent to all driveways.

NO.	REVISION	BY	DATE

DESIGNED BY: J. WALDBAUER
 DRAWN BY: EH&A
 CHECKED BY: B. GRANTHAM
 SCALE: NONE
 DATE: DECEMBER, 1993
 FILE: ADDISON\PROJECTS\QUANTITY

EH&A **Espey, Huston & Associates, Inc.**
 Engineering & Environmental Consultants
 13800 Montfort Drive, Suite 230
 Dallas, Texas 75240 (214) 387-0771

QUANTITY SUMMARY/GENERAL NOTES		SHEET NO. 2
INTERSECTION IMPROVEMENTS		OF 31 SHEETS
for THE TOWN OF ADDISON		JOB NO. 13921