

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1.	Mobilization	L.S.	1
2.	Remove Concrete Curb and/or Curb/Gutter	L.F.	820
3.	Remove Concrete Sidewalk	S.Y.	150
4.	Cement Treated Base (6")	S.Y.	800
5.	Reinforced Concrete Pavement (8")	S.Y.	710
6.	Reinforced Concrete Sidewalk (4")	S.F.	1450
7.	Barricading, Signing and Traffic Handling	L.S.	1
8.	Integral Curb	L.F.	420
9.	Reinforced Concrete Curb and Gutter	L.F.	370
10.	Unclassified Street Excavation	C.Y.	375
11.	Sawed Breakout Groove	L.F.	572
12.	Remove Existing Inlet	EA.	1
13.	6" Recessed Curb Inlet	EA.	1
14.	18" Reinforced Concrete Pipe (RCP) (w/Concrete Collar)	L.F.	25
15.	P117Y, 4" Yellow Double Reflective Buttons	EA.	37
16.	P-7W (4") White Non-reflective Buttons	EA.	30
17.	P-15W (4") White Reflective Buttons	EA.	75
18.	P-15Y (4") Yellow Reflective Buttons	EA.	20
19.	6"x6" Reflective Jiggle Bars	EA.	64
20.	24" Reflective White Thermoplastic Stripe	L.F.	107
21.	4" Reflective White Thermoplastic Stripe	L.F.	119
22.	Reserved		
23.	3" HMAC Pavement, Type D Surface Course	S.Y.	210
24.	All Traffic Signal Relocation/Installation work	L.S.	1
25.	Relocate Sign	EA.	3
26.	Relocate Water Meters	EA.	2
27.	Relocate Fire Hydrant	EA.	1
28.	Traffic Movement Pavement Marking	EA.	18
29.	Railroad Advance Warning Pavement Marking	EA.	2
30.	Barrier-Free Ramp	EA.	3
31.	Bermuda Block-sodding	S.Y.	200
32.	All Irrigation Removal, Replacement or Relocation Work	L.S.	1
33.	Bilco Double Leaf Aluminum Door	L.S.	1

IRRIGATION NOTES

- 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" QCV'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 QCV 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 top 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.

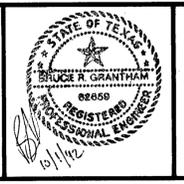
GENERAL NOTES

- All materials and workmanship shall conform to the Town of Addison Standards and Specifications and the North Central Texas Council of Government (N.C.T.C.O.G.) 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.
- 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 Public Works Department is to be notified 48 hours (2 working days) prior to any construction of paving and utilities in rights-of-way, easements and alleys.
- All disturbed earth areas are to be finish graded to original or proposed contours, fertilized and block-sodded with bermuda sod according to NCTCOG specifications immediately after construction. Backfill behind new curb is to be select material free of rock and other debris. Contractor shall thoroughly water the sod immediately after placement. The Contractor shall also be responsible for continued maintenance and watering of the newly planted sod until the entire project is completed and accepted by the Town of Addison. Watering of the Bermuda sod 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.
- The Contractor shall retain a licensed irrigator to remove, relocate or replace all landscaping and sprinkler systems affected by construction. Field verification of existing landscaping and location and type of existing sprinkler systems is required prior to bidding. This work shall be directed by the Town of Addison.
- The Contractor is required to relocate all traffic signal signal items as shown on the plans including, but not limited to, signal poles, foundations, control boxes, and all other appurtenances. The Contractor's price bid for this work, Item No. 24, shall also include such items as new conduits, all wiring and splicing necessary for signal work, new traffic detector loops (in pavement) and all wiring and splicing necessary for detector system. New locations of control boxes, signals, etc. shall be as directed by the Town of Addison.
- Trees to be removed shall be balled and burlapped by a landscape contractor experienced in digging and balling trees.
- Ball sizes shall be a minimum of 10" in diameter for each 1" caliper measured 12" above the tree ball.
- Burlap or other suitable material shall completely cover the root ball. The ball shall be held together with a wire basket.
- Tree balls shall be firm, neat, slightly tapered, well burlapped and wired.
- Trees specified to be removed shall be balled and burlapped and transported to the Addison Service Center, 16801 Westgrove, where they will be stored and transplanted by the Addison Parks Department.
- All existing foundations shall be removed below level of pavement subgrade.

TELETYPE POST NENK

NO.	REVISION	BY	DATE

DESIGNED BY: J. WALDBAUER
 DRAWN BY: EH&A
 CHECKED BY: B. GRANTHAM
 SCALE: N.T.S.
 DATE: SEPTEMBER 1992
 FILE: \ADDISON\PROJECT\QUANTITY



eh ESPEY, HUSTON & ASSOCIATES, INC.
 Engineering & Environmental Consultants
 13800 Montfort Drive Suite 230 Dallas, Texas 75240
 (214) 387-0771

QUANTITY SUMMARY/GENERAL NOTES
 INTERSECTION IMPROVEMENTS
 ADDISON ROAD AT BELT LINE ROAD
 for
 THE TOWN OF ADDISON

SHEET NO.	2
OF 31 SHEETS	
JOB NO.	13921