

## GENERAL NOTES

## LANDSCAPE AND IRRIGATION NOTES

1. 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.
2. 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.
 

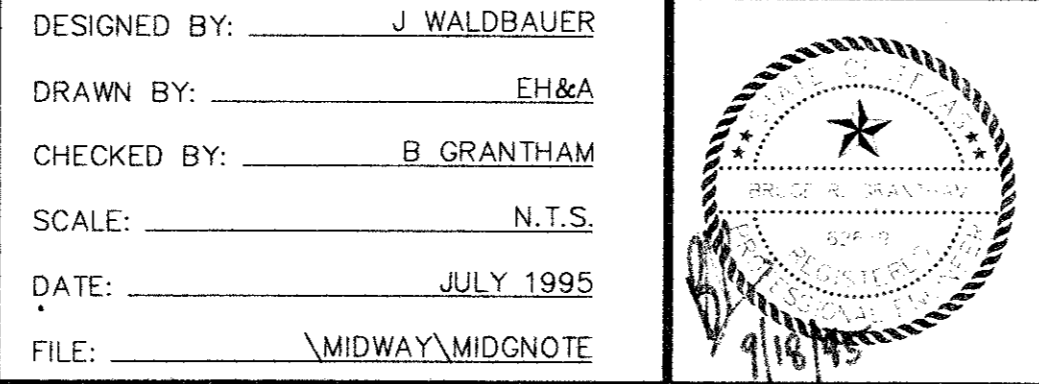
TOWN OF ADDISON	450-2871
CITY OF FARMERS BRANCH	919-2588
LOVE STAR GAS	422-7073
TCI CABLEVISION	288-7550
TU ELECTRIC	888-1313
SOUTHWESTERN BELL	234-7085
3. The CONTRACTOR shall be responsible for public safety during construction and will provide the necessary traffic barricades and warning signage to protect the construction site. Construction barricades shall be in conformance with the Texas Manual on Uniform Traffic Control Devices (TMUTCD). All barricades should include high intensity reflective sheeting and sufficient barricades shall be lighted as directed by the Town of Addison.
4. All concrete shall have a minimum compressive strength of 3,600 psi at 28 days (minimum 6 sacks of cement per cubic yard) unless otherwise noted. All concrete at the following locations shall be early strength concrete designed to achieve 3000 psi in 48 hours: Midway Road, Proton Drive, Greenhill Drive, HUIE Addison Addition driveways, Proton Joint Venture property driveway. The CONTRACTOR shall submit mix designs to the Town of Addison for approval. No fly ash will be allowed. All reinforcing steel and steel bars in pavement shall be supported and maintained at the correct clearances by the use of bar chairs or other approved support.
5. The CONTRACTOR is responsible for keeping streets, parking areas, sidewalks, etc., adjacent to the project free of mud and debris from construction.
6. The 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.
7. The Town of Addison Public Works Department is to be notified 48 hours (2 working days) prior to any construction.
8. All disturbed earth areas are to be finish graded to original or proposed contours and block sodded unless hydromulch is called for on the plans. Sodding and hydromulch shall be performed in accordance with 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 grass cover immediately after placement. The CONTRACTOR shall also be responsible for continued maintenance and watering of the newly grassed areas until the entire project is completed and accepted by the Town of Addison. Fertilizing and watering of the hydromulch shall be done in a manner and quantity so that a complete ground cover is established. (No separate pay item for fertilizing and watering.)
9. Arrangements for construction water shall be made through the Town of Addison. The CONTRACTOR shall obtain a meter from Town of Addison (deposit required), and pay for all water used for construction. (No separate pay item.)
10. The CONTRACTOR shall maintain adequate sanitary facilities for use by workers throughout construction.
11. The CONTRACTOR shall reinstall the brick pavers at the HUIE Addison Addition driveways. If brick pavers are damaged, they shall be replaced at the CONTRACTOR'S expense with Dickey clay brick, Lehigh, Iowa plant (red and brown to match existing pattern) or approved equal. Brick pavers shall be installed on a one inch (±) deep sand/cement bed over replaced concrete pavement in accordance with the project specifications and details.
12. All existing foundations shall be removed below level of pavement subgrade.
13. Any temporary asphalt to be placed to facilitate traffic movements during construction shall not be paid for separately but shall be considered incidental to other items of work.
14. Pay items provided are intended to be all inclusive of the work required on this project. Work required by the plans or specification but not provided with a specific pay item, including but not limited to excavation and backfill, shall be considered incidental to other items of work.
15. The CONTRACTOR shall demonstrate that the water and sanitary sewer systems meet the proper pressure, bacterial, and mandrel tests. In addition, the owner shall provide a VHS format video tape of the sanitary sewer.
16. The CONTRACTOR shall dispose of all excess excavation and cleared material off site, including broken concrete, rock, trees and vegetation. Materials hauled off site may not be disposed of within the Town of Addison without written permission from the affected property owner.
17. 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.
18. The CONTRACTOR shall obtain all necessary permits at least 48 hours prior to start of any construction.
19. The 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.
20. The CONTRACTOR shall construct barrier-free ramps at all intersections and adjacent to all driveways. (No separate pay item.)
21. The CONTRACTOR shall submit to the Town of Addison a trench safety plan for the installation of utilities greater than five feet in depth.

22. All water mains shall be AWWA C-900 Class 200 PVC water pipe (SDR-14), except as noted. Tapping saddles shall be used for all PVC service taps.
23. All water mains shall have minimum cover as follows:  
6", 8" and 12" - 4' below finished street grade or 5' depth of cover in unimproved streets or as required to clear other utilities.
24. The CONTRACTOR shall use the drainage easement and public right-of-way for access to the job site unless approval is obtained from the property owner.
25. The CONTRACTOR shall keep excavated trenches free of groundwater during construction. If necessary, the CONTRACTOR shall utilize dewatering procedures in order to control groundwater during construction such that it does not affect his construction work. (No separate pay item)
26. The CONTRACTOR shall provide means for adequately controlling and avoiding soil erosion during construction. The CONTRACTOR shall not store spoils on private property during construction without the property owner's permission.
27. It is the CONTRACTOR's responsibility to maintain neat and accurate plans of record.
28. The CONTRACTOR is responsible for maintaining adequate site drainage throughout the duration of this project.
29. Access to abutting property during the construction of this project must be maintained for emergency and local traffic.
30. All streets within the scope of this contract shall be kept accessible to fire trucks, ambulances and other emergency vehicles.
31. All bends and fitting installed of water mains shall be restrained type fittings. Compact fittings are not allowed on PVC mains. All fittings including tees and bends, along with concrete blocking, shall be considered incidental to other items of work.
32. The CONTRACTOR shall confirm all sawcut locations with Town of Addison inspector prior to executing the work. Sawcuts shall be made at the face of the curb unless otherwise noted on the plans.
33. The CONTRACTOR shall replace existing concrete pavement with new pavement of the same thickness unless otherwise shown on the plans.
34. The CONTRACTOR shall submit a Schedule to the Town of Addison of all proposed shutdowns of Addison water mains before starting work on this project. All shutdowns of water mains which impact businesses or restaurants shall be completed at night outside business or restaurant working hours.
35. All wye, pipe-to-pipe, pipe-to-box culvert or culvert-to-culvert connections shall be considered incidental to other items of work.
36. The CONTRACTOR shall backfill all trenches in Midway Road with flowable backfill in accordance with NCTCOG Item 6.2.10(g). In addition, flowable backfill shall be placed between the top of the RCB and the Proton Drive pavement. Flowable backfill shall be incidental of other pay items.
37. The CONTRACTOR shall provide flagmen, as required, to direct traffic. (No separate pay item.)
38. All the PVC pipe installed shall be tested for deflection. The deflection test shall be used to determine adequacy of pipe, bedding, backfill, and installation. The test shall consist of hand pulling a mandrel sized at 95% of the inside diameter of the pipe from manhole at least 30 days after backfilling.
39. The CONTRACTOR shall verify the elevations of all crossing utilities prior to beginning construction on the proposed box culvert, storm sewer, sanitary sewer or water lines.
40. PVC pipe shall be manufactured from a low filler PVC component capable of meeting the highest performance standards of the ASTM specifications.
41. The CONTRACTOR shall cast the RCB transition with reinforcement and wall thickness to match the 9'x5' precast RCB ASTM C-850.
42. The CONTRACTOR shall install 2 temporary signs for the Harvey Hotel and 1 temporary sign for the Marriott. All temporary signs shall be 6'x4' plywood, secured by 2-4'x4' wood posts and a 2'x4' horizontal support. Signs shall be painted white with black letters as directed by the property owners.
43. For new standard inlets to be constructed adjacent to existing inlets, no sidewalk shall be required for the new inlet against the side of the existing inlet. The CONTRACTOR shall form an 18" (wide) x 24" (deep) hole in the side wall of the existing inlet at the flowline to provide a connection to the new inlet. The back, front, top and base of the new inlet shall be tied to the existing inlet walls by doweling and epoxying #4 bars (18" long) at 12" centers into the existing inlet walls to a depth of 9". Concrete bonding agent shall be applied on the existing inlet walls prior to pouring new inlet walls.
44. For new 2-10' inlets, a single wall shall be formed at the middle of the inlet with an 18" (wide) x 24" (deep) hole formed at the flow line in the center of the wall. Mortar finish in the inlet base shall direct flow to the outgoing pipe. The outgoing pipe shall be installed adjacent to the middle wall on the upstream side. Reinforcement from both 10' inlets shall be tied into the middle wall.
45. Connections to existing water and sewer lines or manholes shall be considered incidental to other items of work.
46. The lump sum pay items for traffic signals shall be all inclusive of the temporary and permanent traffic signal improvements shown on Sheets 18 and 19, in the standard details, and in the project specifications.
47. Removal of trees and shrubs shall be included in the pay item for clearing and grubbing.

48. The CONTRACTOR shall form equalization holes in the existing 3 - 7' x 8' box culverts as shown in the plans.
49. The CONTRACTOR shall uncover the foundation for the existing Marriott sign and provide a detail for the required replacement work to the Engineer for review and approval. The cost for furnishing the detail shall be included in the lump sum bid item for removal and replacement of the Marriott sign.
50. Payment for all curb removal shall be included in Bid Item No. 4 - Remove concrete pavement and curb. Measurement for curb removal shall be per square yard of curb removed.
51. Density tests shall be taken at a minimum spacing of 300 feet along all utility trenches. A separate test shall be performed on each lift of backfill.
52. The CONTRACTOR shall install the following plant sizes for bid items 66 through 70 inclusive:  
  
Items No. 66-5 gallon Dwarf Burford Holly  
Items No. 67-4" pot Asian Jasmine at 1 square foot centers  
Items No. 68-4" pot Annual cover  
Items No. 69-5 gallon Gulf Stream Nandina  
Items No. 70-5 gallon Juniper ground cover
53. The CONTRACTOR shall remove and replace lighting facilities located at all signs impacted by the construction. Payment shall be included in the respective bid items for removal and replacement of the signs.
54. The CONTRACTOR shall install a detour sign at the west end of the Marriott Hotel driveway, prior to the first parking stall. The detour sign shall be installed when the Marriott driveway to Midway Road is closed. The CONTRACTOR shall attach a plywood sign to the detour sign which reads "Please detour to Proton Road". Payment for the Detour sign shall be included in Bid Item No. 17 -Construction barricading, signing, traffic control.
55. The CONTRACTOR shall remove the top of the existing storm sewer manhole at Station 2+94 (20' Right) and fill the manhole in accordance with the backfill requirements for water lines. Care should be taken to avoid damage to the existing water line that runs through this manhole. The work described in this note shall be considered incidental to other bid items. (No separate pay).
56. The CONTRACTOR may elect to install a 4 foot long precast RCB transition in place of the 10 foot long RCB transition described in Bid Item No. 41. If the CONTRACTOR elects to do so, the 8'x4' precast RCB (ASTM C-850) shall be extended by 6 feet. The CONTRACTOR shall include this 6 foot extension, along with the 4 foot precast RCB transition, in Bid Item No. 41.

1. No existing trees shall be removed without approval of the Town of Addison unless noted on the plans. CONTRACTOR shall retain a licensed landscape contractor who shall be responsible for employing the necessary measures to preserve trees that are located adjacent to the construction zone, including but not limited to pruning, fertilizing and watering. (No separate pay). Prior approval of tree preservation measures shall be obtained from the Town of Addison. Any trees not identified for removal that are damaged beyond repair shall be replaced at the CONTRACTOR'S expense.
2. Any existing landscape improvements that must be removed and replaced to facilitate construction, including but not limited to walls, signs, shrubs, trees and irrigation systems, shall be replaced to a condition equal to or exceeding the condition prior to construction unless otherwise noted on the Plans.
3. The CONTRACTOR shall retain a licensed irrigator to remove, relocate or replace all existing sprinkler systems affected by construction. Existing irrigation facilities are not shown on these plans. Field verification of location and type of existing sprinkler systems is required prior to bidding. All irrigation work shall be directed by the Town of Addison and the affected property owner.
4. Power will be temporarily disconnected to a Town of Addison irrigation controller when the power pole is relocated on the northwest corner of Greenhill Drive and Midway Road. The CONTRACTOR shall reconnect power to the irrigation system and ensure that adequate irrigation water is maintained during the relocation process, as needed.
5. Standard Town of Addison specifications for landscape and irrigation have been provided for the CONTRACTOR'S information. If the requirements of the property owners for improvements that they own and maintain differ from these specifications, the property owner's requirements shall govern. The Town of Addison shall retain the right to approve all plant material on delivery.

ADDENDUM NO. 1	BRG	8-3-95	DESIGNED BY: J WALDBAUER
ADDENDUM NO. 2	BRG	8-8-95	DRAWN BY: EH&A
			CHECKED BY: B GRANTHAM
			SCALE: N.T.S.
			DATE: JULY 1995
			FILE: MIDWAY/MIDNOTE
NO.	REVISION	BY	DATE



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**GENERAL NOTES**  
 MIDWAY ROAD DRAINAGE IMPROVEMENTS  
 FROM GREENHILL DRIVE TO TU RIGHT-OF-WAY  
 for  
 THE TOWN OF ADDISON

SHEET NO. <b>2B</b>
OF <b>20</b> SHEETS
JOB NO. <b>16285</b>