

GENERAL NOTES

- No separate pay for items covered on this sheet, unless specifically established in the proposal section of the project specifications. Include cost of same in the contract unit price for item of which work is a component or as incidental to other work.
- All construction shall conform to the requirements as stated in the latest edition of the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (NCTCOG).
- Contractor shall coordinate with other contractors of any trade or discipline working adjacent to the project site prior to and during construction.
- Contractor shall be responsible for providing required security to protect his own property, equipment, and work in progress.
- The Contractor shall provide all fencing and/or barricades to maintain public safety around the construction area. Bore/tunnel pits shall be bordered by a security fence or by other means to protect pedestrians and vehicular traffic per OSHA requirements and as approved by the Engineer. When not in use, pits shall be covered with steel plates. Contractor shall comply with all applicable safety standards. Not a separate pay item.
- Contractor shall field verify all dimensions and conditions before commencing work. It shall be Contractor's responsibility to report any discrepancies to the Owner before commencing work.
- The locations of existing utilities indicated on these plans are taken from existing public records. The Contractor is solely responsible for verification of vertical and horizontal location of all utilities prior to construction. Additional utilities and services may be crossing proposed sanitary sewer line. Contractor shall notify all utility companies with facilities in project area 48 hours prior to construction. Contractor is responsible for repairing damage to existing utilities, whether shown or not shown on plans, at no additional cost to the Town of Addison.
- Public and private utility lines and customer service lines may exist that are not shown on the construction drawings. It shall be the Contractor's responsibility to locate, maintain, and protect the integrity of these lines. Hand excavation may be required. Not a separate pay item.
- Contractor shall be responsible for and adequately protect existing structures, utilities, trees, shrubs, fences and other adjoining facilities. Damages caused by Contractor shall be reported to the appropriate property owner and repaired or replaced at the Contractor's expense within four (4) hours.
- Contractor shall comply with OSHA regulations and State of Texas Laws concerning excavation, trenching and shoring.
- Dewatering system or systems installed during construction shall be approved by the Engineer. Trench and pit bottoms and excavations shall be maintained in dry, stable condition until work is complete.
- Contractor shall make every effort to locate dewatering wells in areas that will not cause damage to trees or landscaping. Wells and discharge water should be placed in areas that will not cause disruption, interference or inconvenience to pedestrians and vehicle traffic. Discharge will be subject to acquisition of any necessary approvals and permits. Contractor will be responsible for control of siltation as a result of discharge water and any remedial measures resulting from siltation will be performed by the Contractor at no additional charge.
- The Contractor shall match all proposed pavement, curb, sidewalks, and driveways with existing.
- Should any part of a concrete pavement panel be removed during construction of proposed sanitary sewer, the Contractor shall replace the entire panel except as otherwise shown on plans or directed by the Engineer.
- All expansion joints shall be subsidiary to pavement replacement.
- All sawcuts are to be full depth unless otherwise indicated on plans.
- All dimensions to curbline are referenced to the back of curb unless otherwise noted. Curb removal/replacement is subsidiary to pavement removal/replacement.
- All existing trees and landscaping shall be protected from damage unless specifically designated for removal on the plans. Tree and root trimming must be approved by the Engineer and shall be done by or under supervision of a licensed tree surgeon.
- Contractor shall coordinate with the proper utility company to relocate, brace and support, or divert any utility in conflict with proposed structure or construction so as not to disrupt service of same. If temporarily relocated to facilitate construction Contractor shall restore relocated or diverted utility to its original condition and location upon completion of construction. No separate pay. Contractor shall be responsible for all associated cost for relocations whether temporary or permanent.
- The Contractor shall notify the following, five (5) days before starting work on the improvements shown on these plans.
 - Addison Airport of Texas, Inc. - Mr. Edward Morales (214) 248-7733 ext.105
 - FAA - Mr. Curtis Gray (214) 490-4750
 - SW Bell Telephone ENTERPRISE 9800
 - GTE Telephone (214) 318-3880
 - TU Electric (214) 323-8910
 - Lone Star Gas (214) 263-3444
 - Storer Cable (214) 840-2288
 - Conoco Pipeline (800) 833-6012
 - Explorer Pipeline (918) 493-5100
 - Sprint (800) 245-4545
- The Contractor shall notify the Town of Addison Construction Inspector at (214)450-2847 five (5) days before starting work on the improvements in order to coordinate construction, administration, and inspection activities.
- The Contractor shall notify the Town of Addison Street Department and the Engineer at least 24 hours prior to any construction within street right-of-way.
- The Contractor shall haul away all waste material such as rubbish, pavement, concrete, pipe, unacceptable soil, etc. to an approved offsite landfill. This shall be subsidiary to the unit price of pipe installation.
- Unpaved areas disturbed by construction are to be sodded, fertilized and watered per NCTCOG specifications, unless otherwise specified on the plans.
- The Contractor shall protect all storm sewer inlets receiving storm water runoff from the construction site, per NCTCOG Storm Water Pollution Prevention Plan (SWPPP). Not a separate pay item.
- All sprinkler systems and related components of sprinkler systems and fences, signs, etc. disturbed by construction are to be restored to existing condition or better. Not a separate pay item.
- In the event there are conflicting statements between the project specifications and the "The Standard Specifications for Public Works Construction for North Central Texas" the Project Specifications shall be used.
- In the event an item is not covered in the specifications, the City Engineer's decision will apply.
- Allowable hours of work within the Town of Addison City limits are from 7:00 a.m. to 7:00 p.m. Work may be conducted Monday thru Saturday with the exception of holidays recognized by the Town of Addison.
No lane closures will be allowed in Belt Line Rd. or Midway Rd. between the hours of 6:00 a.m. thru 10:00 p.m.

- Sediment barriers and silt fencing shall be installed where necessary at the direction of the Owner and shall be considered incidental to the unit price bid for pipe installation.
- All tree replacement and trimming will be incidental, not a separate pay item.
- No more than one driveway entrance per business establishment may be closed at any time. The first driveway cut shall be restored to traffic access prior to cutting pavement at a second driveway. Driveway reinstatement shall be by installing permanent pavement, temporary asphalt or steel plating, crushed rock up to grade is not acceptable.
- All restoration efforts shall follow immediately behind sanitary sewer installation. This is a very important requirement on this project. The Owner maintains the right to require the Contractor to cease utility construction if restoration lags behind utility installation. No additional time or compensation will be made to the Contractor to fulfill this requirement.
- All pavement markings & traffic control loops shall be replaced as incidental to pavement replacement. Not a separate pay item.
- The contractor shall supply "as built" plans upon completion of project.
- Contractor shall maintain access to properties and shall repair driveways within forty-eight (48) hours of pavement removal. For all pavement replacement use Type 1 cement with appropriate ASTM C494 admixtures.
- Contractor shall obtain Fire Department and Street Cutting Permits.
- For all work inside Addison Airport property, Contractor must supply, at his cost, radios compatible with the Control Tower to be employed at all times during construction.
- Contractor shall be responsible for all cost associated with providing power to the proposed lift station and for any relocation or repairs to existing utilities whether owned by the Town of Addison or franchise utility companies.
- For all work inside Addison Airport property, Contractor must supply, at his cost, radios compatible with the Control Tower to be employed at all times during construction.
- Unpaved areas disturbed by contractor are to be hydromulched or sodded, (to be selected by owner) fertilized and watered per NCTCOG specifications, unless specified on the plans. Not a separate pay item.

TRAFFIC HANDLING

- The Contractor shall be required to provide and maintain all necessary warning and safety devices (flashing lights, barricades, signs, etc) in accordance with Texas Manual on Uniform Traffic Control Devices to protect the public safety and health until all the work has been completed and accepted by the Town of Addison.
- The Contractor shall maintain access to all adjacent business and residences during construction.
- The closing of contiguous intersections and median openings to traffic crossing the project route will not be allowed.
- Implementation and removal of any parking restrictions and traffic signal alterations are the responsibility of the Contractor. The Contractor shall notify the Town of Addison Traffic Engineer, the Police and Fire Department, and the Engineer a minimum of three (3) working days prior to implementation of traffic handling around construction areas, and again upon the completion of work at each site requiring traffic signal modifications.
- Contractor shall replace all removed pavement markings, in the pre-construction pattern, when temporary diversions are no longer needed.
- Contractor shall conduct his operations in a manner such that trucks and other vehicles do not create a dirt and dust nuisance or safety hazard in any streets, sidewalks, driveways, and parking lots.
- Contractor is responsible for cleaning of streets, sidewalks, driveways, and parking lots caused by associated construction at close of each work day or as requested by Engineer.
- The Contractor shall be responsible for all cost associated with maintaining the continuous operation of the traffic signals in and bordering this project, for making immediate repairs to any signal equipment, cable or conduit he damages, for relocating existing or providing temporary traffic signal equipment if necessary to facilitate construction, for relocating traffic signal heads to provide line-of-sight alignment for approaching motorists, and for providing and installing turn prohibition signs next to the signal heads when these are determined necessary by the area traffic engineer. Actual repairs shall be coordinated through the Town of Addison to assess whether the City or Contractor is to make actual repairs.
- The contractor shall submit a traffic control plan to be used as a general guide for traffic control on the project. During the course of construction, the City may require additional traffic control devices to ensure public safety and traffic movement. Contractor shall install and maintain such additions at no additional cost to the Owner.


SANITARY SEWER

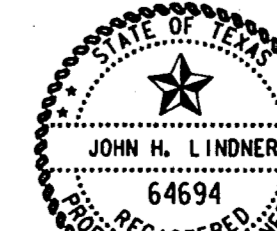
- Contractor may, at his option, install sewer line by other than open cut methods in areas designated on the plans to be open cut. However, payment will be made based on the lower of the two unit bid prices.
- In areas designated to be installed by other than open cut, Contractor may at his option install sanitary sewer line by tunneling or by microtunneling methods. Direct jacking of PVC pipe is not permitted and requires a steel casing pipe as shown on plans. However, steel casing pipe may be deleted if jacking pipe or tunnel boring machine (TBM) methods are used. In this case, the unit price bid for installing carrier pipe in casing pipe will be used for installing carrier pipe by other methods allowed in plans and specs.
- All mains shall be tested in accordance with NCTCOG specifications and the Town of Addison subdivision testing requirements. Not a separate pay item.
- All embedment and backfill to be included in the unit prices for installation of pipe.
- Trench excavation for trenches five (5) feet or more in depth shall be in accordance with all provisions of Part 1926, Subpart P - Excavations, Trenching and Shoring of the Occupational Safety and Health's Standards and Interpretations. It shall be the responsibility of the Contractor to conform to the above provisions.
- If temporary sanitary sewer by-pass is required, the Contractor shall coordinate with the Town of Addison Department of Public Works five (5) working days prior to anticipated shut-down.
- Sanitary sewer joints (all types PVC included) shall be rubber gasket equipped bell and spigot type. Chemically welded sanitary sewer joints are not acceptable. Bell and spigot joints available for ABS and PVC pipe.
- The Contractor shall be responsible for the integrity of existing structures in the vicinity of the proposed construction. (No separate pay)

- Deflection testing shall be performed for all non rigid pipe types. Deflection testing shall be conducted after the gravity sanitary sewer has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. The deflection test shall be conducted using a rigid ball or mandrel having an inside diameter equal to 95% of the interior diameter of the pipe. The test shall be performed without mechanical pulling devices.
- When installed under existing or proposed pavement or within two (2) feet of back-of-curb, all sewer pipe trenches, miscellaneous structures and bore pits are to be backfilled to pavement subgrade with cement stabilized sand in accordance with the technical specifications.
- The Contractor shall submit a Construction Phasing Plan prior to beginning any work.
- If temporary sanitary sewer by-pass is required, the Contractor shall coordinate with the Town of Addison Department of Public Works five (5) working days prior to anticipated shut-down. Prior to installing the by-pass lines, the Contractor shall have on site all men, materials and equipment necessary to complete the by-pass without delays. The by-pass assemblies shall be fully assembled and ready for installation prior to shut-down of the existing system. Any required temporary by-passing shall be considered incidental and not a separate pay item.
- Thrust blocking required at all force main bends unless otherwise indicated on plans and shall be included in unit price of pipe installation.
- All force main pipe shall be white in color.
- All sewer main construction shall conform to the minimum requirements of the Texas Natural Resource Conservation Commission (TNRCC) Rules and Regulations for public water and sewer systems. In particular, Title 30 Texas Administrative Code Chapter 317.2 - Design Criteria for Sewerage Systems.
- All construction shall conform to the requirements as stated in the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (latest edition).
- All 8" thru 12" force mains shall be Class 200, AWWA C900, P.V.C. pipe.
- Depth of sewer line shall be adjusted as necessary to avoid conflicts with other underground utilities. No separate pay for use of vertical bends or additional depth of cut.
- All mains shall be tested in accordance with TNRCC Chapter 317.2 testing requirements as shown in the specifications. Not a separate pay item.
- All sanitary sewer pipe joints shall be SDR 35 (P.S. 46) PVC ASTM D3034 (green in color), unless otherwise noted.
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- All sanitary sewer pipe joints shall be SDR 35 (P.S. 46) PVC ASTM D3034 (green in color), unless otherwise noted.
- Terra-Tape required the length of force main installed one (1) foot above mains. Tape to read "Sanitary Sewer". This shall be incidental to the cost of installing the pipe.

MANHOLES

- All manholes located under pavement shall be backfilled to a point one (1) foot below grade with cement stabilized sand in accordance with the technical specifications.
- Shale subgrades in footing excavations should be maintained at/or near their in-situ moisture level prior to concrete placement. Any bearing surface subjected to ponding of water should be excavated to undisturbed shale immediately prior to concrete placement. If the shales are allowed to become dry, post-construction movement of footings can occur due to volume changes in the shales. Footing excavations which will remain open for more than 48 hours should be protected by a seal slab. Concrete should be placed with no loose or soft soils or shale.
- Concrete for manholes foundations shall be Class "C" with a minimum 28-day compressive strength of 4000 psi.

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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
GENERAL NOTES			
 Carter & Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	3 of 63


 John H. Lindner
 4/5/96