GENERAL NOTES

1. All materials and workmanship shall conform to the Standard Specifications for Public Works Construction for North Central Texas (NCTCOG), latest edition, and the Town of Addison Department of Public Works and Transportation Addendum.
2. During the construction of these improvements, any interpretation of the Standard Specifications for Public Works Construction for North Central Texas, and any matter which requires the approval of the owner, must be approved by the Director of Public Works and Transportation or his designee before any construction involving that decision commences. Assumptions about what these decisions might be which are made during the bidding phase will have no bearing on the decision.
3. Streets, alleys, sidewalks, driveways and storm drainage facilities in the public right of way shall be constructed in conformance with the Town of Addison Standard Construction Details.
4. Contractor shall be responsible for removal and offsite disposal of removed pavement and other construction debris.
5. In preparation of the plans and specifications, the engineer has endeavored to indicate the location of existing underground utilities. It is not guaranteed that all major lines, structures or services have been shown or are accurate on the plans. Prior to beginning of construction, the Contractor shall contact all utility companies for verification of existence and location of utility lines.
6. The Contractor shall protect all structures, pipelines, walks, drives, trees, shrubbery, lawns and other improvements during the progress of the work and shall remove from the project and dispose of all debris and unused materials.
7. The Contractor shall obtain all necessary permits and approvals for his work before beginning construction, and shall maintain a copy of these at the project site. The Contractor shall be responsible for payment of permit fees.
8. The Contractor shall be responsible for complying with state laws and federal regulations relating to trench safety. The Contractor shall furnish to the City an acceptable trench safety plan signed and sealed by a Professional Engineer qualified to do such work and registered in the State of Texas.
9. Contractor shall maintain traffic flow throughout construction on existing public streets and, if needed, shall submit a detour plan to the City of Coppell for approval prior to start of construction. Contractor shall submit a traffic control plan consistent with the T.M.U.T.C.D.
10. Contractor shall seed or sod all disturbed areas upon completion of paving, unless specified differently in the landscape plans.

GRADING AND PAVING CONSTRUCTION NOTES:

1. All materials, construction, testing and workmanship shall conform to the Town of Addison Specifications and Standard Construction Details and the Standard Specifications for Public Works Construction for North Central Texas, latest edition, except as noted herein and approved by the Town of Addison.
2. All earthwork shall conform to the Geotechnical Report prepared by Reed Engineering Group, Inc. Site preparation and grading of areas within public right of way shall be in accordance with the NCTCOG Specifications as amended by Town of Addison. Site preparation outside public rights of way shall be in accordance with the said Reed Geotechnical Report, but at a minimum shall include: vegetation and organic soils (upper two to four inches) should be stripped and removed at the start of earth work construction. The exposed soils shall be scarified to a minimum depth of six inches and recompacted to a density of between 95 and 100 percent of maximum Standard Proctor Density, ASTM D-698. The moisture content of the compacted soil shall be at +1 to +5% above optimum moisture. Onsite soils used in fill areas outside of the building and pavement shall be compacted in maximum six inch loose lifts to a minimum of 95 percent to an maximum of 100 percent of the maximum Standard Proctor Density, ASTM D-698 at +1 to +5% above optimum moisture.
3. The subgrade areas under the proposed ramp shall be as specified by Reed Engineering Group in a letter dated March 15, 2011, which is the top 6 inches as flexible base TXDOT Item 247, Grade 2, Type D or better, compacted to a minimum 95 percent of Modified Proctor (ASTM D1557) at or above optimum moisture, over 6 inch subgrade, scarified and recompacted to a minimum of 95 percent Standard Proctor, ASTM D 698, at or above optimum moisture.
4. The proposed ramp pavement shall be in as specified by Reed Engineering Group in a letter dated March 15, 2011, for Option No. 2, which requires 10 inch, 4,000 psi concrete with #4 bars on 24 inch centers each way with jointing as specified on the Ramp Pavement Jointing Plan.
5. The onsite pavement areas outside the public right of way, fire lane easements and the proposed ramp shall be in accordance with the said Reed Geotechnical Report, but at a minimum shall be 5 inch, 3000 psi concrete in parking areas, and 6 inch, 3000 psi concrete in traffic areas. The pavement shall be reinforced with #3 bars on 24 inch centers each way (at a minimum). This shall be over a subgrade of 6 inches, scarified and recompacted to a minimum 95 percent Standard Proctor, ASTM D 698, at or above optimum moisture.
6. Pavement sections, outside the proposed ramp area, shall be sawed cut at an approximate spacing of 2.5 to 3 times the pavement thickness (for example, for 6 inch pavement, the spacing shall be 15 feet to 18 feet), the actual joint pattern shall be designed to avoid irregular shapes. Refer to "Joint Design for Concrete Highway and Street Pavements" published by the Portland Cement Association for jointing techniques. Sawed joints shall be cut into new concrete within 4 hours after placement, or as soon as practical, but in no case later than 6 hours after placement.
7. Finished pavement within Town R.O.W. or public easement shall meet certain quality standards for surface of the concrete including the durability, texture, riding surface and appearance. The surface must be durable, firm, dense and well bonded to the aggregate to maintain an appearance and texture which is satisfactory to the Town. Concrete pavement having a poor surface which has spalled (exposed aggregate) due to poor quality paste, high water-cement ration, over-vibration, improper curing, extreme weather or any other reason, or does not have a satisfactory riding surface shall be removed and replaced at the Contractor's expense. It is extremely important that the pavement have a good rideable surface, free from undulations and rough joints. The Public Works department shall determine the acceptability of the pavement.
8. Broom finishing shall be performed so that the corrugation produced in the surface shall be uniform in appearance and not more than 1/8-inch in depth. Brooming shall be completed before the concrete is in such condition that the surface will be torn or unduly roughened by the operation. The finished surface shall be free from rough and porous areas, irregularities and depressions resulting from improper handling of the broom.
9. Cracks formed in concrete pavement shall be repaired or removed by the Contractor at the Town's discretion.
10. Fire lanes shall be striped in accordance with the Town of Addison requirements. Fire lane striping shall not be placed on curb.
11. Traffic Barricades will be required for all construction within the Public R.O.W. Barricades shall conform to the installation identified in the Texas Manual of Uniform Traffic Control Devices, as currently amended. The Contractor shall have the Traffic Control Plan at the time of pre-construction meeting.
12. See Town of Addison Standard Construction Details for Additional General Notes.
13. Dumpster pad pavement to be minimum of 7 inch thickness.
14. Contractor to match existing grades at property lines and not alter or disturb runoff patterns on adjacent property.

ADDITIONAL GENERAL NOTES FOR SIDEWALKS

The Contractor shall ensure all sidewalks in pedestrian and access ways and adjacent to buildings shall comply with the requirements of the American Disabilities Act (ADA). If the Contractor determines there is a discrepancy between information shown on the plans and the requirements of ADA, he shall notify the owner and engineer immediately.

WATER & SANITARY SEWER CONSTRUCTION NOTES:

1. All materials, construction, testing and workmanship shall conform to the Town of Addison Standard Construction Details and Specifications for Public Works Construction.
2. All Water Mains 6" and larger will be C900 DR14 Polyvinyl Chloride.
3. Water mains eight inches (8") to twenty-four inches (24") in diameter shall be AWWA C905 / DR18 PVC, mechanical joint or a joint of the type which provides a recession in the bell for the employment of a single rubber gasket to be placed before the insertion of the succeeding spigot. Joint material for PVC shall Conform to ASTM F477.
4. All water Line pipe shall be imbedded per Town of Addison standards.
5. MINIMUM COVER:

PIPE DIAMETER	COVER	PIPE DIAMETER	COVER
Less Than 6"	42"	8"	48"
6"	42"	Greater than 8"	54-60"

6. All water lines shall have a 150 psi Hydrostatic test for a four hour period. Test shall be witnessed by the Engineering Inspector. All Fire mains shall have a 200 psi Hydrostatic test for a two hour period.
7. All water mains must be chlorinated by the contractor and water samples then must be taken and provided to the Town of Addison.
8. All water line valves, main line taps, fittings and fire hydrants shall be placed in a concrete saddle and thrust blocks.
9. All valve boxes shall be adjustable Cast Iron type and shall be placed on a concrete base. A reinforced concrete pad of 3'-0"x3'-0"x6" shall be poured around the valve box in areas outside of the pavement.
10. Fire hydrants shall be placed to conform with the requirements of the State Board of Insurance and Fire Prevention and Engineering Bureau of Texas. The fire hydrant shall be set perpendicular, and to the proper depth, and shall be carefully and substantially blocked against firm trench walls using 2000 psi concrete.
11. Sanitary sewer mains shall be polyvinyl chloride pipe conforming to the specifications of ASTM D 3034, SDR 35, or equal. Joints and fittings shall be compression rubber gasket joints.
12. Sanitary sewer pipe shall be placed on a 4" layer of crushed stone. The trench shall be back filled per Town of Addison standards and consolidated to a minimum of 90% standard proctor density.
13. Testing for sanitary sewer system shall be per the North Central Texas Council of Governments Standard Specifications.
14. All water and sanitary sewer service locations shall be marked on the nearest curb face with a "W" & "S" respectively.
15. All plumbing installed outside of R.O.W. or and Easement shall be installed by a Licensed Plumber and inspected by Building Inspection.
16. Fire sprinkler line shall be sized and installed by a State Licensed Contractor.
17. The Contractor shall tie detectable green metallic tape to the end of sewer service or buried dead end and shall leave a minimum of 36" of tape exposed after backfill is complete.
18. The Contractor shall be responsible for providing "As-Built" plans to the design engineer of record showing the location of water & sanitary sewer services.
19. Contractor shall have a Trench Safety Plan.
20. See Town of Addison Standard Construction Details for Additional General Notes.

STORM SEWER CONSTRUCTION NOTES:

1. All materials, construction, testing and workmanship shall conform to the Town of Addison Specifications and the Standard Specifications for Public Works Construction for North Central Texas, latest edition, except as noted herein and approved by the City.
2. All public storm sewer pipe shall be a minimum of 18" and shall be Class III or Class IV RCP based upon depth of cover. Class III RCP shall be used where the depth of cover, from ground line to top of pipe, is less than or equal to 10 feet. Class IV RCP shall be used where the depth of cover is greater than 10 feet. All storm sewer pipe shall be laid on a minimum of 4" of Grade No. 4 crushed stone (1" maximum diameter). The initial backfill shall consist of the same crushed stone to a minimum of the spring line of the pipe. The remainder backfill must be clean and free of rocks & lumps of earth larger than 4" and of vegetation.
3. The joints shall be constructed and jointed together in a manner that eliminates spill through of backfill. Approved joint materials are concrete collars; plastic asphalt joint compound (cold applied); rubber gaskets; and preformed plastic gaskets (cold applied).
4. The tops of all storm drainage inlets, manholes and junction structures shall have a round manhole cover with locking device.
5. All drainage structures shall have a minimum compressive strength of 3600 psi at 28 days.
6. All precast box culverts, drainage structures and RCP will require a certification from the manufacturer that the product meets the design requirements and 28 day compressive strength.
7. All storm sewer systems with radii less than 100' shall use 4' long joints with beveled ends (radius pipe).
8. See Town of Addison Standard Construction Details for all General Notes.

SEE TOWN OF ADDISON STANDARD CONSTRUCTION DETAILS AND NOTES, WHICH SUPERCEDE THE DETAILS AND NOTES HEREON IF A CONFLICT EXISTS.

14
14

RECORD DRAWING
DATE: October 26, 2012
Based on information furnished from the Contractor and to the best of the design engineer's knowledge, the constructed work is substantially in accordance with this plan.

STATE OF TEXAS
L. LYNN KADLECK
47258
LICENSED
PROFESSIONAL ENGINEER
March 21, 2011

PREPARED BY
KADLECK & ASSOCIATES
ENGINEERING PLANNING SURVEYING
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(972) 881-0771 PLANO, TX 75074
TBPE Reg. No. F-6460 TBPLS Reg. No. 100555-00

DETAIL AND NOTES
MILLION AIR – PHASE TWO
LEASE PARCEL No. 70–WESTGROVE RD.
ADDISON MUNICIPAL AIRPORT
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	
K&A	K&A	SEPT.2010	1"=40'	PROJECT No. 10544

F:\10541-10555\10544 Million Air - Westgrove\CIVIL\13-14 DETAILS AND NOTES.dwg, 10/29/2012 5:16:06 PM