

GENERAL ITEMS

1. If any conflict arises between these general notes and any other notes found in the plans, the City of McKinney's General Notes shall take precedence. However, the Director of Engineering has the authority to review and approve legitimate conflicting project specific notes if needed. For CIP Projects, the controlling order of precedence will be as specified in the Contract Documents.
2. All construction, testing, and materials shall be in accordance with the City's current standard details and specifications. Prior to any construction, the Contractor shall be familiar with the Contract Documents and Specifications, the Plans (including all notes), the City of McKinney's Specifications, and any other applicable standards or specifications relevant to the proper completion of the work specified. Failure on the part of the Contractor to be familiar with all Standards and Specifications pertaining to this work shall in no way relieve the Contractor of responsibility for performing the work in accordance with all such applicable Standards and Specifications.
3. Prior to construction, Contractor shall have in their possession all necessary permits, plans, licenses, etc. Contractor shall have at least one set of approved Engineering Plans and Specifications on-site at all times.
4. Owner shall be responsible for obtaining all offsite easements prior to commencement of offsite and relevant on-site construction activities. It shall be the responsibility of the Contractor, prior to the initiation of construction on easements through private property, to inform the property owner of this intent to begin construction. Before beginning construction in areas of public dedication, the Contractor shall inform the agency having jurisdiction in the area forty-eight (48) hours prior to initiation of the work.
5. All work shall conform to the City of McKinney's current version of the Engineering Design Manual, technical specifications, standard details, and approved materials list(s). In the event an item is not covered in the plans or the above referenced documents, the most current North Central Texas Council of Governments (NCTCOG) Standard Specifications for Public Works Construction shall apply with concurring notification to the Director of Engineering and Engineer of Record. The Director of Engineering shall have the final decision on all construction materials, methods, and procedures.
6. Construction inspection may be performed by representatives of the Owner, Engineer, City, Geotechnical Engineer, and reviewing authorities / agencies. Unrestricted access shall be provided to them at all times. Contractor is responsible for understanding and scheduling required inspections. Testing samples shall be collected and processed by certified technicians.
7. All Contractors must confine their activities to the work area. No encroachments onto developed or undeveloped areas will be allowed. Any damage resulting therefrom shall be Contractor's responsibility to repair or restore. If the Contractor desires to utilize adjacent lot(s) for any purpose, the Contractor shall provide the City advance written permission from the property owner(s). The project shall not be finalized until the Contractor provides a written letter from the property owner(s) stating that the property owner is satisfied with the said lot(s). All property disturbed by any activities associated with the project shall be returned to pre-project conditions and shall comply with all erosion control requirements.
8. It will be the responsibility of each Contractor to protect all existing public and private utilities throughout the construction of this project. Contractor shall contact the appropriate utility companies to identify utility locations prior to commencement of construction and shall maintain up-to-date utility locates throughout the duration of construction. Contractor shall assume full liability and responsibility to those utility companies for any damages caused by the Contractor to utility facilities. If the Contractor damages any City property (water mains, fire hydrants, structures, etc.), they will be assessed applicable charges. Contractor may be required to expose these facilities at no cost to the City.

Texas 811	811 or 800-344-8377
Atmos Energy (Gas)	866-322-8667
Oncor Electric Delivery	888-313-4747
AT & T	800-288-2020
McKinney Water & Wastewater Dept.	972-547-7360
Spectrum / Charter	214-320-5435

Astound Broadband (formerly Grande Communications)	800-218-5725
CoServ Electric	844-330-0762 OR 940-321-6825
CoServ Gas	844-330-0763
Capco Fiber	512-217-6241
GCEC Overhead Electric	903-482-7181
GCEC Underground Electric	903-482-7141
Grayson Collin Communications (formerly GCEC Telecom)	903-482-7274
City of Irving - David Johnson	469-446-0362

9. Continuous access for mail service and solid waste collection shall be provided during construction.
10. The Contractor shall maintain, and keep in good repair, all the areas covered by the Plans and Specifications during the full duration of the Project.
11. Working Time is defined as the time during the day, except holidays in which the Contractor shall be permitted to work. Unless otherwise approved, normal work hours will be 6:00 a.m. to 9:00 p.m. (7:00 a.m. to 7:00 p.m. within 500 feet of residential areas) Monday through Friday. Contractor will be permitted to work weekend hours between 8:00 a.m. and 5:00 p.m. on Saturdays and between 1 p.m. and 5 p.m. on Sundays provided Contractor supplies written notification to the McKinney Engineering Construction Inspector of Contractor's intent to work and identifies the specific weekend days and hours it plans to work on or before 12:00 noon of the immediately preceding Thursday. The Contractor will not be allowed to work City of McKinney holidays unless an exception is given by the City, and it is the Contractor's responsibility to verify the City's holiday schedule. The consequences of work being performed without the benefit of inspection on Saturdays, Sundays, or holidays may be the removal of all work performed without the appropriate inspection, as determined by the McKinney Engineering Construction Inspector.
12. No material which has been used by the Contractor for any temporary purposes whatsoever is to be incorporated in the permanent work without written consent of the Director of Engineering and the Engineer of Record.
13. Where the words "equivalent", "proper", or "equal to" are used, they shall be understood to mean that the thing referred to shall be proper, the equivalent of, or equal to some other thing, in the opinion or judgment of the Engineer of Record and the City. Where the term "or equal," or "or approved equal" is not used in the specifications, this does not necessarily exclude alternative items, materials, or equipment which may accomplish the intended purpose. Where materials or equipment are specified by a trade or brand name, it is not the intention of the City to discriminate against an equal product of another manufacturer, but rather to set a definite standard of quality or performance, and to establish an equal basis for the evaluation of bids. No substitutions will be permitted until the Contractor has received written permission of the Director of Engineering and the Engineer of Record to make a substitution for the material that has been specified.
14. The Contractor shall be responsible for the repair or replacement of any existing items damaged by the Contractor during construction. These may include but are not limited to landscaping, irrigation, mailboxes, fences, driveways, street pavement, sidewalks, hike / bike trails, public utilities, franchise utilities, structures, buildings, etc. Any such existing items which are removed or damaged shall be put back to better or previous condition at no cost to the City.
15. The Contractor shall coordinate construction activities with the City of McKinney Engineering Department and Public Works Department. In the event other contractors are doing work in the same area simultaneously with this project, the Contractor shall coordinate his proposed construction with other contractors. Any work performed within Texas Department of Transportation right-of-way shall comply with applicable TxDOT standards and the Contractor shall be responsible for obtaining the required permits to perform said work. All coordination with TxDOT construction inspectors will be coordinated with the designated City of McKinney Construction Inspector.
16. Contractor shall inform Owner, residences, and/or businesses forty-eight (48) hours prior to any interruption of sewer and/or water service or impacts

to existing access. Contractor shall schedule the construction activities to minimize any inconvenience to the residents and businesses. Interruptions to existing services may be required to be performed during off times and shall be coordinated with the affected agencies. Any planned interruptions of sewer and/or water services must have prior written approval of the Director of Engineering.

17. All shop drawings, traffic control plans, working drawings or other documents which require review by the City, shall be submitted by the Contractor sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
18. Establishment of utility services for the use of City potable water for construction purposes is available through the City of McKinney Utility Billing Office located at 210 N. Tennessee St. (972 547-7550). Contractor shall comply with all related City Ordinances and shall pay all fees in a timely manner.
19. All Contractors and subcontractors shall perform all work in a manner consistent with safe work practices, and in accordance with all applicable safety and health rules and regulations.
20. It is the Contractor's responsibility to maintain a neat and accurate record of construction for the Record Drawings that will be submitted to City. Prior to final acceptance, the Contractor's redlines shall be provided to the Engineer of Record for incorporation into the Record Drawings. Record Drawings including redline updates shall be provided to the McKinney Engineering Construction Inspector at least one day prior to the scheduled final walkthrough inspection.

EROSION CONTROL & VEGETATION

1. Within the City of McKinney, all soil disturbing activities require a grading permit. A copy of the appropriate Construction Site Notice (CSN) or Notice of Intent (NOI) shall be provided to the City of McKinney prior to issuance of a grading permit. The site specific Erosion Control Plan (ECP) shall be provided to McKinney's Stormwater Administrator prior to grading.
2. The CSN or NOI shall be posted in a location viewable to the public until construction is complete and Notice of Termination (NOT) submitted. The Storm Water Pollution Prevention Plan (SW3P) shall be readily available for review by Federal, State, or Local officials.
3. No soil disturbing activities will occur prior to the SW3P, ECP, and associated Best Management Practices (BMP) being fully implemented, and then inspected by McKinney's Erosion Control Inspectors.
4. The contractor shall comply with the City of McKinney's Stormwater Ordinance, the current NCTCOG iSWMTTM Technical Manual for Construction, the TPDES General Construction Permit TXR150000 and any other State and/or Local regulations.
5. The Contractor shall employ measures as necessary to prevent dirt, mud, and debris from being tracked off site. Any dirt, mud, and debris tracked offsite shall be cleaned up by the Contractor immediately to ensure safe environment within and adjacent to the site.
6. The site shall be reviewed by the Contractor or his representative weekly, and after any major storm. Adjustments/repairs to the erosion control measures will be made as needed. The Contractor shall notify McKinney's Erosion Control Inspectors of adjustments/repairs such that the adjustments/repairs may be inspected and approved by the Erosion Control Inspectors in coordination with the Stormwater Administrator.
7. Unless otherwise approved by the Director of Engineering, perennial vegetation shall be fully established in all disturbed areas (both on-site and off-site) and all temporary erosion and sediment control measures shall be removed (both on-site and off-site) prior to final acceptance and issuance of a Certificate of Occupancy
8. A completed NOT shall be submitted to the State and a copy of this NOT shall be provided to the City of McKinney prior to final acceptance.
9. All excavated earth in excess of that required for backfilling, and all concrete

removed, shall be disposed of in a satisfactory manner. The Contractor shall provide documentation to the City in writing of the final destination of this material. This documentation shall be submitted at the time of the SWP3. The documentation shall include permission from the property owner and verification from the floodplain manager in the jurisdiction that the disposal area is outside the FEMA 100-year floodplain.

RETAINING WALLS

1. Retaining walls (including the foundation or footing) shall not be constructed to encroach upon City Right-of-Way, public easements, or public utilities without the consent of the Director of Engineering.
2. Prior to beginning construction of a retaining wall, the Contractor shall coordinate an onsite pre-construction meeting with the wall contractor, wall engineer (if applicable), and the construction inspector. The retaining wall Engineer of Record is responsible to perform and document onsite inspections throughout construction; and to provide the Engineering Department a copy of all documentation confirming construction compliance with all drawings and specifications as required by the Director of Engineering prior to final acceptance of project.

TREE PRESERVATION

1. Prior to construction, the Contractor shall construct and maintain a protective fence at the drip line of all protected existing trees, unless noted otherwise on the construction drawings. Any damage to the existing trees caused by construction shall be replaced to the satisfaction of the Owner and/or the City of McKinney at the Contractor's expense.
2. All protective measures shall be in place prior to commencement of any site or grading work and remain in place until all exterior work has been completed.
3. The City Arborist shall be contacted to approve the placement of the Tree Preservation fencing prior to beginning of site work on property.
4. The following activities shall be prohibited within the limits of the primary root zone: material storage, equipment cleaning/liquid disposal, and construction equipment/vehicular traffic. No signs or wires shall be attached to trees.
5. Unless specifically allowed, no grade changes shall be allowed within the limits of the primary root zone of any protected tree unless the City Arborist approves adequate construction methods.
6. No trimming of trees may occur within the Tree Preservation fencing limits without prior consent of the City Arborist.

PEDESTRIAN ACCESSIBILITY

1. Contractor shall maintain all existing pedestrian routes and access within and adjacent to the site throughout the duration of construction. A temporary pedestrian route shall be provided when any existing sidewalk is closed due to construction activity. Any signage required for the designation of a temporary pedestrian route shall be included on the approved Traffic Control Plan.
2. All newly constructed sidewalks, curb ramps, and crosswalks installed within City of McKinney public right-of-way, easements, or on City property shall be considered a pedestrian access route and shall conform to the most current (Draft or Adopted) Guidelines for Public Right-of-Way created by the United States Access Board (PROWAG).

GENERAL CONSTRUCTION NOTES

JANUARY 2023

SHEET 1 OF 2

CITY OF MCKINNEY ENGINEERING DEPARTMENT
221 N TENNESSEE ST
MCKINNEY, TX 75069

P (972) 547-7475
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TRAFFIC CONTROL

1. All existing traffic control devices and infrastructure shall remain in place, operational, and unobstructed at all times throughout the duration of construction unless otherwise approved by the Director of Engineering. The Contractor shall be responsible for maintaining all traffic control devices whether or not work is active. Any deficiencies shall be corrected by the Contractor immediately regardless of time of day. The first violation of this provision will result in a verbal warning to the Contractor. Subsequent violations will result in suspension of all work at the job site for a minimum of forty-eight (48) hours.
2. All traffic control devices shall be in accordance with the latest Texas MUTCD and NCHRP 350. Devices must contain either Type III Hi-Intensity sheeting or Type IV reboundable Hi-Intensity sheeting.
3. Construction activities which impact existing traffic and/or access to properties shall not begin until a site-specific traffic control plan is approved by the City of McKinney. Traffic control plans may be required on other roadways as determined by the Director of Engineering or their designee. All traffic control plans must be prepared by an individual certified in their preparation and must be submitted for review a minimum of seven (7) working weekdays prior to the anticipated implementation. Any deviation from an approved Traffic Control Plan must be reviewed by the Director of Engineering or their designee.
4. Lane closures will not be permitted on arterial roadways before 9:00 am or after 4:00 p.m. Violations may result in suspension of all work at the job site for a minimum of forty-eight (48) hours. The Director of Engineering reserves the right to deny, restrict, or revoke permission for closures.
5. Lane closures will not be permitted on streets in the vicinity of private and/or public schools during posted school zone hours. Lane closures in the vicinity of schools without designated school zones shall be coordinated with the school. In general, school zone hours can be found at www.mckinneytexas.org.
6. All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time at the end of the workday, temporary traffic control devices that are no longer appropriate shall be removed, covered or turned away from traffic. The first violation of this provision will result in a verbal warning to the Contractor. Subsequent violations will result in suspension of all work at the job site for a minimum of forty-eight (48) hours.
7. Existing permanent signs removed by the Contractor for construction purposes other than stop, yield, and street name signs shall be returned to the City of McKinney. All stop, yield, and street name signs removed shall be temporarily erected in the appropriate locations and in accordance with the Texas MUTCD until permanent signing can be installed. Any temporary stop or yield sign locations to be left in place overnight requires prior approval from the Director of Engineering.
8. Any permanent signs or existing pavement markings that conflict with the approved traffic control plan shall be covered, obliterated, or removed as directed by the Director of Engineering.
9. Contractor shall notify the City of McKinney Signals Supervisor at (972) 547-7428 and Project Manager at least twenty-four (24) hours in advance of any work to be performed on a roadway or driveway within 500 feet of an existing traffic signal. Temporary traffic control devices within vehicle detection zones shall not be installed or removed without consent from the Signal Supervisor. The first violation of this provision will result in a verbal warning to the Contractor. Subsequent violations will result in suspension of all work at the job site for a minimum of forty-eight (48) hours.
10. Access must be maintained to all drives and side streets or as indicated in the Traffic Control Plan.

WATER

1. Contractor shall submit a Trench Safety Plan to the McKinney Engineering Construction Inspector prior to the Pre-Construction Meeting for review and approval by the City.
2. Prior to water line installation, Contractor shall provide flush and disinfection plan for review and approval by the City of McKinney Engineering Department.

3. Contractor shall not operate existing McKinney water valves. Contractor shall contact the City of McKinney Engineering Construction Inspector for coordination with Public Works.
4. All water services and water meters shall be size on size. No reductions in water meter sizing are allowed for single services.
5. In Residential developments, Bullhead water services (dual meter box with single water service line tap) are required. The water service meter box shall be installed 6-inch behind the back of curb and 1 foot off of the property line.
6. Each individual service location shall be sawcut into the face of the curb with a four (4) inch high "I" painted by the Contractor. If no curb exists, a similar mark shall be placed in the pavement near the edge of the roadway. After cleaning the sawcut via compressed air or brush, apply one coat of APWA Blue paint to mark the sawcut symbol.
7. All water service lines shall be embedded with 6 in. sand below and around the pipe and 1 ft. of sand over the top of the pipe; from the water main to the meter. Water service lines within City roadway right-of-way shall be compacted to a minimum of the 95% Standard Proctor density.
8. Minimum cover shall be 4 feet for 6-inch to 8-inch lines, 5 feet for 12-inch to 16-inch lines, and 6 feet for 20-inch and larger lines. Additional cover may be required in un-paved or un-developed areas.
9. Water mains in the right-of-way near storm inlets shall be constructed with a minimum clearance of 12 inches behind the inlet by pulling the pipe using longitudinal bending in accordance to 75% of the pipe manufacturers' requirements.
10. All City water main lines shall use Type "H" embedment.
11. All blow-off (flush) valves shall be two (2) inch and shall be provided in accordance with City of McKinney standards. All main line stubouts shall have blow-off valves installed.
12. All water line fittings shall be ductile iron. All 6-inch to 12-inch valves shall be AWWA approved resilient wedge gate valves.
13. In addition to thrust blocking, all fittings must be restrained.
14. Install 2 foot by 2 foot by 4-inch thick, concrete pad around all water valves outside of concrete pavement.
15. Valve extensions shall be provided on all valves with operating nuts greater than 5 feet below finished ground or paving grade.
16. All valves shall be marked with a four (4) inch high "V" by sawcut on the curb or pavement. The "V" shall point to the location of the valve as follows: If the valve is in the paving, the "V" shall be marked upright; if the valve is outside the paving, the "V" shall be marked upside down. After cleaning the sawcut via compressed air or brush, apply one coat of APWA Blue paint to mark the sawcut symbol.
17. A Blue Stimsonite, Fire-Lite reflector (or approved equal) shall be placed in the center of the street opposite each fire hydrant.
18. No testing (pressure and/or disinfection) is allowed against existing water valves.

WASTEWATER

1. Contractor shall submit a Trench Safety Plan to the McKinney Engineering Construction Inspector prior to the Pre-Construction Meeting for review and approval by the City.
2. After curb and paving has been completed, contractor shall cut a four (4) inch high "II" on the curb indicating the location of the cleanout. After cleaning the sawcut via compressed air or brush, apply one coat of APWA Green paint to mark the sawcut symbol.
3. All sanitary sewer mains shall be tested by pulling a mandrel, air pressure test, and inclination video inspections with TV log report following the National Association of Sewer Service Companies (NASSCO) Pipeline Assessment Certification Program (PACP). Sewer laterals shall be tested by air pressure and inclination video inspected with an inclinometer after all franchise utilities have been installed. The inclination video recordings and the NASSCO PACP certified report shall be provided to the McKinney engineering construction inspector in a DVD format and shall be labeled accordingly for City record.

4. All sanitary sewer manholes within flood plains or flood prone areas require type "S" manhole lids.
5. All manholes shall be vacuum tested where a 10-inch mercury vacuum is developed. The air vacuum shall then be monitored for the test period noted in the NCTCOG specifications. The allowance drop in air vacuum shall be no greater than 1-inch mercury over the test period.
6. The contractor shall install City of McKinney standard wastewater manhole lids.
7. Unless otherwise noted, in open spaces, the top of the sanitary sewer manhole shall be installed 3 inch above the surrounding ground and include manhole mow strip.
8. All City sewer lines and sanitary sewer laterals shall use Type "H" embedment.

STORM SEWER

1. Contractor shall submit a Trench Safety Plan to the McKinney Engineering Construction Inspector prior to the Pre-Construction Meeting for review and approval by the City.
2. Prior to final acceptance, the Contractor shall perform a video inspection of all storm sewers and provide a copy of the inspection to the McKinney Engineering Construction Inspector. All storm sewers shall be cleared of any sediment and debris.
3. When there is less than two foot clearance between a water/sewer line and a storm sewer, the Contractor shall install concrete encasement around the sanitary sewer or water lines at the storm sewer crossing. The encasement shall be a minimum of 10 L.F. and 6-inch thick centered at the crossing.
4. Manhole lids on storm sewer inlets and junction boxes shall be centered over the outgoing storm lateral.
5. All bends and wyes for pipes less than 42-inch diameter must be factory manufactured bends and wyes.
6. The contractor shall install City of McKinney standard storm sewer disc markers on all new inlets.
7. The contractor shall install City of McKinney standard storm sewer manhole lids on inlets, manholes, junction boxes, etc.

PAVING

1. All mix designs shall be signed and sealed by a Professional Engineer and submitted to the McKinney Engineering Construction Inspector a minimum of one week before a scheduled pour. Mix designs are subject to approval by the Director of Engineering.
2. The Contractor shall give the McKinney Engineering Construction Inspector a minimum of 24 hour notice of his intention to construct Portland cement concrete pavement, structural concrete, or hot mix asphaltic concrete to assure the adequate quality control of construction materials and workmanship.
3. Test cylinder: minimum 5 needed for breaks: one at day 7, three at day 28 and 1 hold.
4. No vehicles are permitted on reinforcing steel at any time.
5. Full panel replacement required (where cut) or as required by the Director of Engineering.
6. Restore permanent type pavements, alley pavement, sidewalks, driveways, curbs, gutters, and surface structures removed or disturbed during or as a result of construction operations to a condition which is equal in appearance and quality to the condition that existed before the work began. The surface of all improvements shall match the appearance of the existing surface.
7. The subgrade for street and driveway pavement shall be prepared by excavating and filling the area as required, to bring the grade to the

- elevations as shown on the Drawings. All areas that are intended to be paved shall be proof rolled once the subgrade has been prepared and compacted. McKinney Engineering Construction Inspector must be present to observe proof rolling.
8. All concrete paving, including sidewalks and hike & bike trails, shall have a minimum compressive strength of 4000 psi, unless a higher compressive strength is specified.
 9. All fill shall be compacted to 95% Standard Proctor Density in a maximum of 6-inch lifts or per the approved Geotechnical Engineers Report.
 10. The subgrade shall extend a minimum of 12-inches beyond the back of curb to the minimum depths specified in the McKinney Engineering Design Manual or greater depths as recommended in the site specific geotechnical report. The Contractor shall obtain a site specific lime series and add sufficient lime accordingly to achieve a Plasticity Index not to exceed 12.
 11. A subgrade density report must be presented to the City Inspector prior to paving. Densities are only valid for 72 hours. Densities received on a Friday are valid until noon on the following Monday. Densities taken before inclement weather may be required to be retaken at the City Inspectors discretion. A minimum of four (4) test cylinders are required for breaks at 7 days, 2 at 28 days, and the last cylinder being an extra.
 12. All City streets are required to be paved with the use of an approved slip form paving machine with mechanical vibration. Hand pours are only allowed at intersection returns or other non-standard areas as approved by the City Inspector. Hand pours shall be vibrated by an approved hand vibrator. Hand finished pavement shall be 4,500 psi at 28 days and machine finished pavement shall be 4,000 psi at 28 days.
 13. Expansion joints shall be placed a maximum of 400 feet.
 14. All median noses shall be poured monolithically.

TESTING AND QUALITY CONTROL

1. The Owner will employ the services of an engineering testing laboratory to make certain inspections and to sample and test the materials to be used in the Work on all Developer projects. The Owner shall furnish, at his own expense, all necessary specimens for testing of the materials and when requested, shall furnish a complete written statement of the origin, composition, and/or manufacturer of any or all materials that are to be used in the Work. All materials not conforming to the requirements of the Specifications will be rejected. For CIP projects, the City will typically provide the services of the engineering testing lab.
2. During the construction, the engineering testing laboratory will perform services related to checking the quality of the Work being performed by the Contractor to determine if the improvements are being constructed in accordance with the Plans and Specifications. This quality control service does not relieve the Contractor of its responsibility with regard to constructing the work in accordance with the contract.
3. The Contractor must ensure the testing laboratory representative has arrived onsite prior to beginning any Work requiring sampling and testing. The testing laboratory representative shall be equipped with the appropriate testing equipment, properly maintained, and calibrated as verified by the Contractor. In the event the scope and schedule of the work warrants, the laboratory shall provide sufficient additional representatives. The testing laboratory shall issue all reports to the designated distribution list in a timely fashion. All test results that do not comply with project Specifications shall be clearly indicated.

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