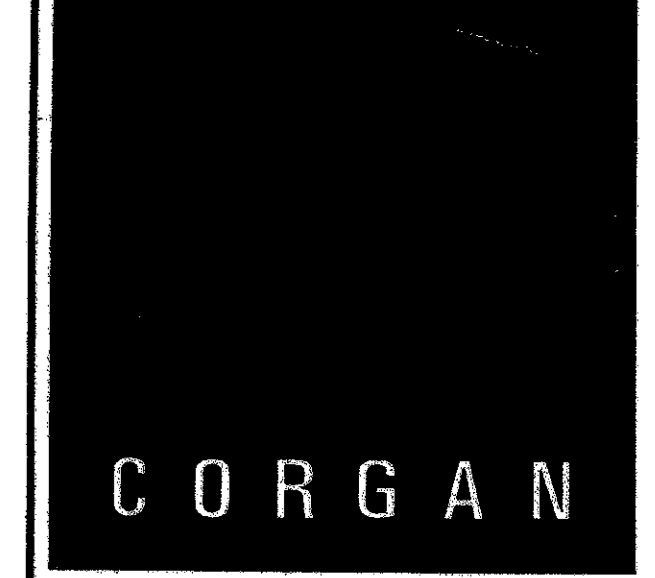


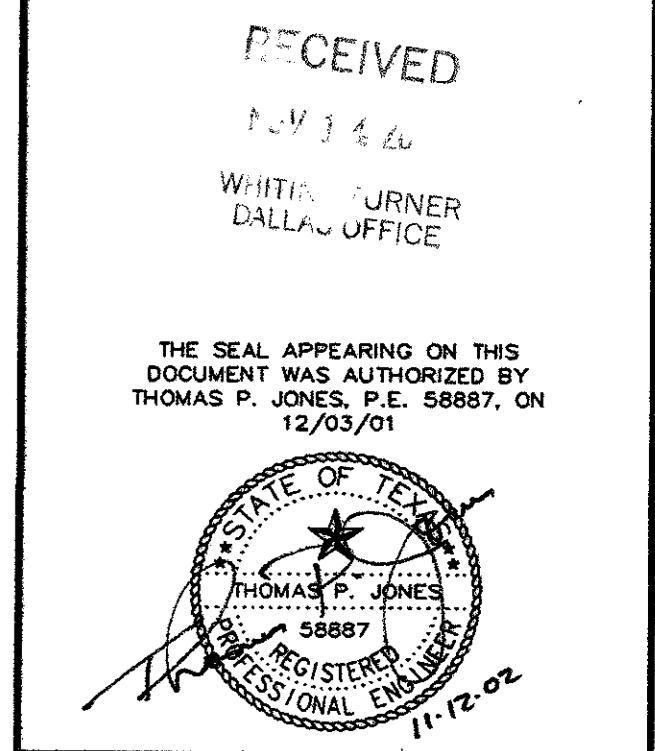
MATCH LINE SHEET C1.4



ISSUES
2.0 ISSUE FOR CONSTRUCTION
9/23/02
3.0 FIRELANE/ TOWN COMMENTS
11/12/02

REVISIONS
ADDENDUM NO. 1
SERVICE YARD/WEST ENTRY 9/10/02
ADDENDUM NO. 3
ADDED TOWN COMMENTS TO NOTES
AND TOWN EXPANSION "EARS" NOTE

RECEIVED
11/12/02
WHITE TURNER
DALLAS OFFICE

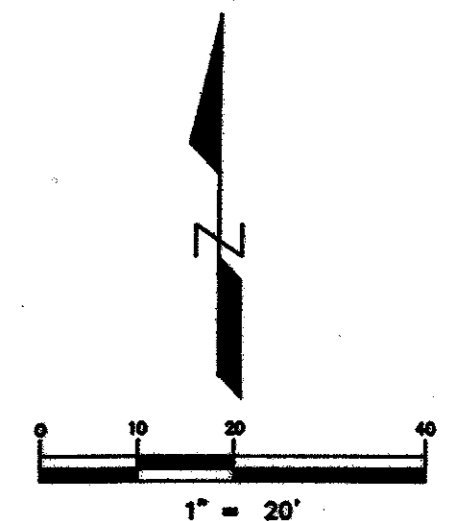


MBNA
AMERICAN
HALLMARK CENTER SITE HARDENING

TOMDEN ENGINEERING
12655 N. CENTRAL #1016
DALLAS, TEXAS 75243
(972) 386-6448 FAX: (972) 386-6409
EMAIL: tomden@attmail.net
JOB No. 10029

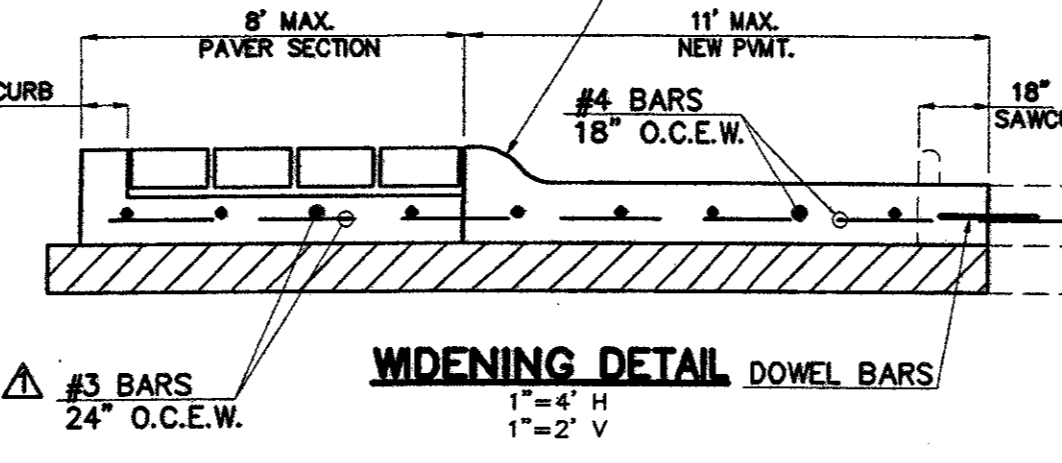
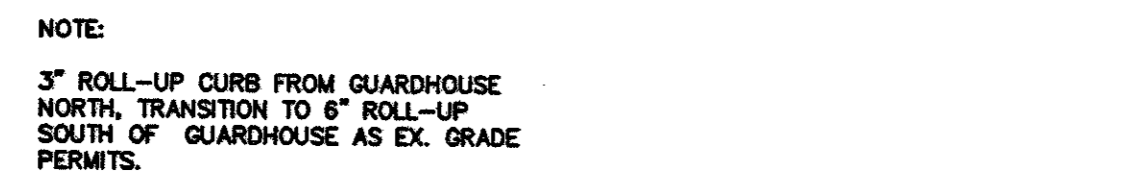
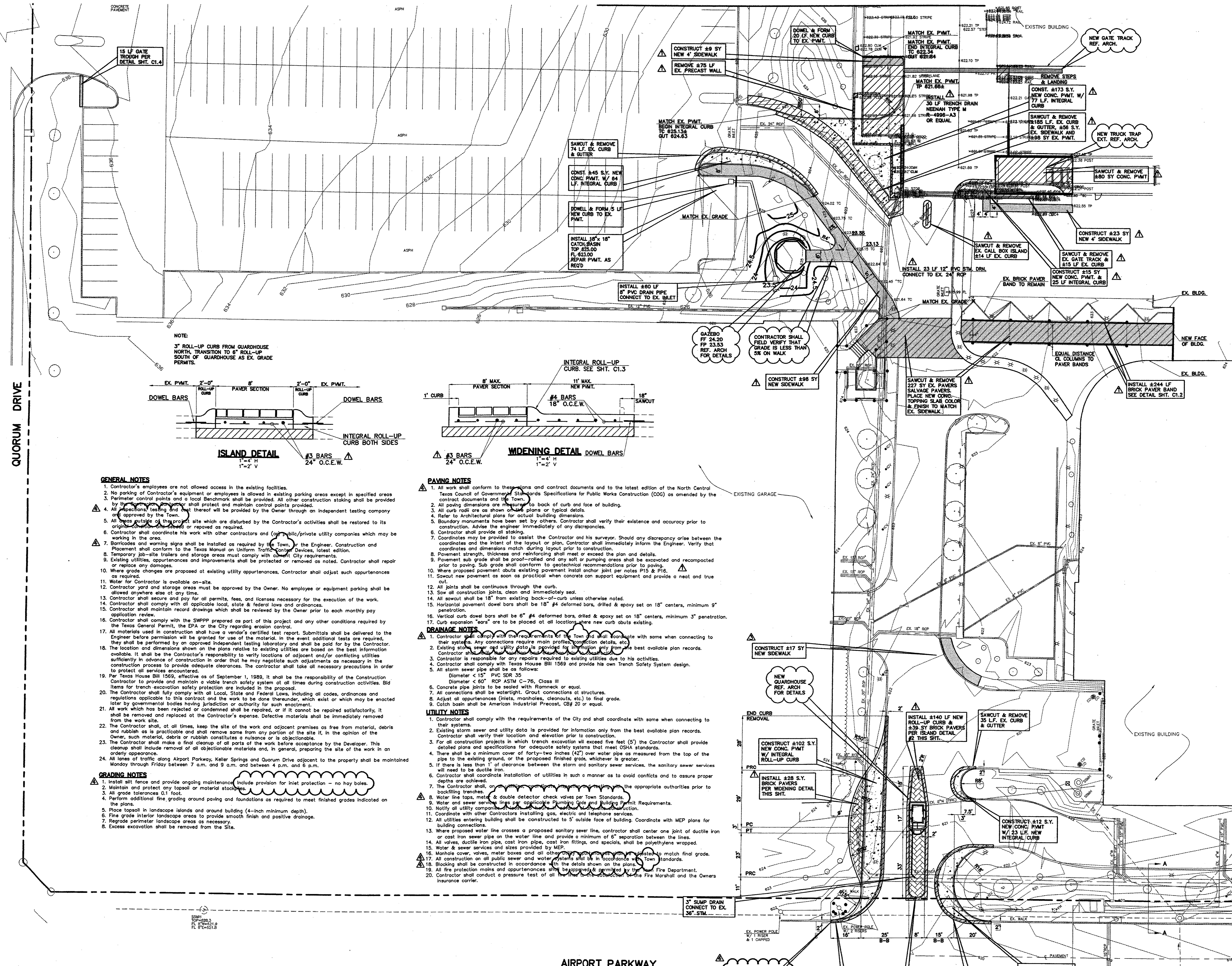
PLAN AREA 1

JOB 02143.00
DATE 12 NOV 02
SHEET
C1.1



LEGEND

[Hatched Pattern]	REMOVAL
[Dotted Pattern]	4" SIDEWALK, 3000 PSI
[Cross-hatched Pattern]	6" PAVEMENT, 3600 PSI
[Diagonal Lines]	BRICK PAVERS
[Solid Grey]	CONC. CURB & GUTTER
[Dashed Line]	EXIST. CONTOUR
[Dotted Line]	PROP. CONTOUR
[Solid Line]	EXIST. SPOT ELEVATION
[Dashed Line]	PROP. SPOT ELEVATION



- GENERAL NOTES**
- Contractor's employees are not allowed access in the existing facilities.
 - No parking of Contractor's equipment or employees is allowed in existing parking areas except in specified areas.
 - Perimeter control points and a local Benchmark shall be provided. All other construction staking shall be provided by the Contractor.
 - All professional testing and inspection thereof will be provided by the Owner through an independent testing company approved by the Town.
 - All areas outside of the project site which are disturbed by the Contractor's activities shall be restored to its original condition or improved as required.
 - Contractor shall coordinate his work with other contractors and (public/private utility companies which may be working in the area.
 - Barrierales and warning signs shall be installed as required by the Town, the Engineer, Construction and Placement shall conform to the Texas Manual on Uniform Traffic Control Devices, latest edition.
 - Temporary job-site trailers and storage areas must comply with City requirements.
 - Existing utilities, appurtenances and improvements shall be protected or removed as noted. Contractor shall repair or replace any damages.
 - Where grade changes are proposed at existing utility appurtenances, Contractor shall adjust such appurtenances as required.
 - Water for Contractor is available on-site.
 - Contractor yards and storage areas must be approved by the Owner. No employee or equipment parking shall be allowed anywhere else at any time.
 - Contractor shall secure and pay for all permits, fees, and licenses necessary for the execution of the work.
 - Contractor shall comply with all applicable local, state & federal laws and ordinances.
 - Contractor shall maintain record drawings which shall be reviewed by the Owner prior to each monthly pay application review.
 - Contractor shall comply with the SWPPP prepared as part of this project and any other conditions required by the Texas General Permit, the EPA or the City regarding erosion control.
 - All materials used in construction shall have a vendor's certified test report. Submittals shall be delivered to the Engineer before use of the material. In the event additional tests are required, they shall be performed by an approved independent testing laboratory and shall be paid for by the Contractor.
 - The location and dimensions shown on the plans relative to existing utilities are based on the best information available. It shall be the Contractor's responsibility to verify locations of adjacent and/or conflicting utilities sufficiently in advance of construction in order that he may negotiate such adjustments as necessary in the construction process to provide adequate clearances. The Contractor shall take all necessary precautions in order to protect all services encountered.
 - Per Texas House Bill 1569, effective as of September 1, 1989, it shall be the responsibility of the Construction Contractor to provide and maintain a viable trench safety system at all times during construction activities. Bid items for trench excavation safety protection are included in the proposal.
 - The Contractor shall fully comply with all Local, State and Federal Laws, including all codes, ordinances and regulations applicable to this contract and the work to be done thereunder, which exist or which may be enacted later by governmental bodies having jurisdiction or authority for such enactment.
 - All work which has been rejected or condemned shall be repaired, or if it cannot be repaired satisfactorily, it shall be removed and replaced at the Contractor's expense. Defective materials shall be immediately removed from the work site.
 - The Contractor shall, at all times, keep the site of the work and adjacent premises as free from material, debris and rubbish as is practicable and shall remove same from any portion of the site if, in the opinion of the Owner, such material, debris or rubbish constitutes a nuisance or is objectionable.
 - The Contractor shall make a final cleanup of all parts of the work before acceptance by the Developer. This cleanup shall include removal of all objectionable materials and, in general, preparing the site of the work in an orderly appearance.
 - All lanes of traffic along Airport Parkway, Keller Springs and Quorum Drive adjacent to the property shall be maintained Monday through Friday between 7 a.m. and 9 a.m. and between 4 p.m. and 6 p.m.
- GRADING NOTES**
- Install all fence and provide ongoing maintenance. Include provision for inlet protection - no hay bales.
 - Maintain and protect any topsoil or material stockpiles.
 - All grade tolerances 0.1 foot.
 - Perform additional fine grading around paving and foundations as required to meet finished grades indicated on the plans.
 - Place topsoil in landscape islands and around building (4-inch minimum depth).
 - Fine grade interior landscape areas to provide smooth finish and positive drainage.
 - Regrade perimeter landscape areas as necessary.
 - Excess excavation shall be removed from the site.

- PAVING NOTES**
- All work shall conform to these plans and contract documents and to the latest edition of the North Central Texas Council of Government's Standards Specifications for Public Works Construction (COG) as amended by the contract documents and the Town.
 - All paving dimensions are measured to back of curb and face of building.
 - All curb radii are as shown on plans or typical details.
 - Refer to Architectural plans for actual building dimensions.
 - Boundary monuments have been set by others. Contractor shall verify their existence and accuracy prior to construction. Advise the engineer immediately of any discrepancies.
 - Contractor shall provide all staking.
 - Coordinates may be provided to assist the Contractor and his surveyor. Should any discrepancy arise between the coordinates and the intent of the layout or plan, Contractor shall immediately inform the Engineer. Verify that coordinates match during layout prior to construction.
 - Pavement strength, thickness and reinforcing shall meet or exceed the plan and details.
 - Pavement sub grade shall be proof-rolled and any soft or pumping areas shall be excavated and recompacted prior to paving. Sub grade shall conform to geotechnical recommendations prior to paving.
 - Where proposed pavement abuts existing pavement install anchor joint per notes P15 & P16.
 - Sawcut new pavement as soon as practical when concrete can support equipment and provide a neat and true cut.
 - All joints shall be continuous through the curb.
 - Saw all construction joints, clean and immediately seal.
 - All sawcut shall be 18" from existing back-of-curb unless otherwise noted.
 - Horizontal pavement dowel bars shall be 18" #4 deformed bars, drilled & epoxy set on 18" centers, minimum 9" penetration.
 - Vertical curb dowel bars shall be #4 deformed bars, drilled & epoxy set on 18" centers, minimum 3" penetration.
 - Curb expansion "ears" are to be placed at all locations where new curb abuts existing.
- DRAINAGE NOTES**
- Contractor shall comply with the requirements of the Town and shall coordinate with some when connecting to their systems. Any connections require main profiles (connection details, etc).
 - Existing storm sewer and utility data is provided for information only from the best available plan records. Contractor shall verify their location and elevation prior to construction.
 - Contractor is responsible for any repairs required to existing utilities due to his activities.
 - Contractor shall comply with Texas House Bill 1569 and provide his own Trench Safety System design.
 - All storm sewer pipe shall be as follows:
Diameter < 15" PVC SDR 35
Diameter < 60" RCP ASTM C-76, Class III
Concrete pipe joints to be sealed with Rammed Grout or equal.
All connections shall be watertight. Grout connections at structures.
Adjust all appurtenances (mats, manholes, cleanouts, etc) to final grade.
Catch basin shall be American Industrial Precast, CIB 20 or equal.
- UTILITY NOTES**
- Contractor shall comply with the requirements of the City and shall coordinate with some when connecting to their systems.
 - Existing storm sewer and utility data is provided for information only from the best available plan records. Contractor shall verify their location and elevation prior to construction.
 - For all construction projects in which trench excavation will exceed five feet (5') the Contractor shall provide detailed plans and specifications for adequate safety systems that meet OSHA standards.
 - There shall be a minimum cover of forty-two inches (42") over water pipe as measured from the top of the pipe to the existing ground, or the proposed finished grade, whichever is greater.
 - If there is less than 1' of clearance between the storm and sanitary sewer services, the sanitary sewer services will need to be ductile iron.
 - Contractor shall coordinate installation of utilities in such a manner as to avoid conflicts and to assure proper depths are achieved.
 - The Contractor shall, on all utility lines, coordinate with the appropriate authorities prior to backfilling trenches.
 - Water line taps, meter & double detector check valves per Town Standards.
 - Water and sewer services lines per applicable Plumbing Code and Building Permit Requirements.
 - Notify all utility companies of any proposed construction.
 - Coordinate with other Contractors installing gas, electric and telephone services.
 - All utilities entering building shall be constructed to 3' outside face of building. Coordinate with MEP plans for building connections.
 - Where proposed water line crosses a proposed sanitary sewer line, contractor shall center one joint of ductile iron or cast iron sewer pipe on the water line and provide a minimum of 6" separation between the lines.
 - All valves, ductile iron pipe, cast iron pipe, cast iron fittings, and specials, shall be polyethylene wrapped.
 - Water & sewer services and all other utilities shall be installed to match final grade.
 - All construction on all public sewer and water systems shall be in accordance with the Town Standards.
 - Blocking shall be constructed in accordance with the details shown on the plans.
 - All fire protection mains and appurtenances shall be approved & permitted by the Town Fire Department.
 - Contractor shall conduct a pressure test of all fire protection mains and appurtenances to the Fire Marshal and the Owners insurance carrier.

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BENCHMARK
BOX CLT ON INLET SE CORNER
AIRPORT PKWY. & QUORUM
ELEV. 631.15