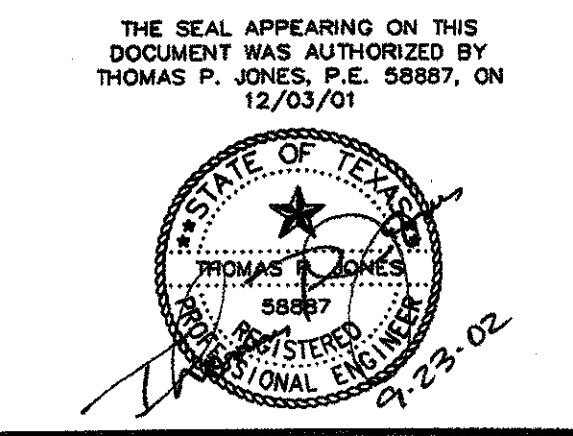


ISSUES  
2.0 ISSUE FOR CONSTRUCTION  
9/23/02

REVISIONS  
ADDENDUM NO. 1  
SERVICE YARD/WEST ENTRY 9/10/02  
ADDENDUM NO. 3



**MBNA** AMERICA<sup>SM</sup>  
HALLMARK CENTER SITE HARDENING

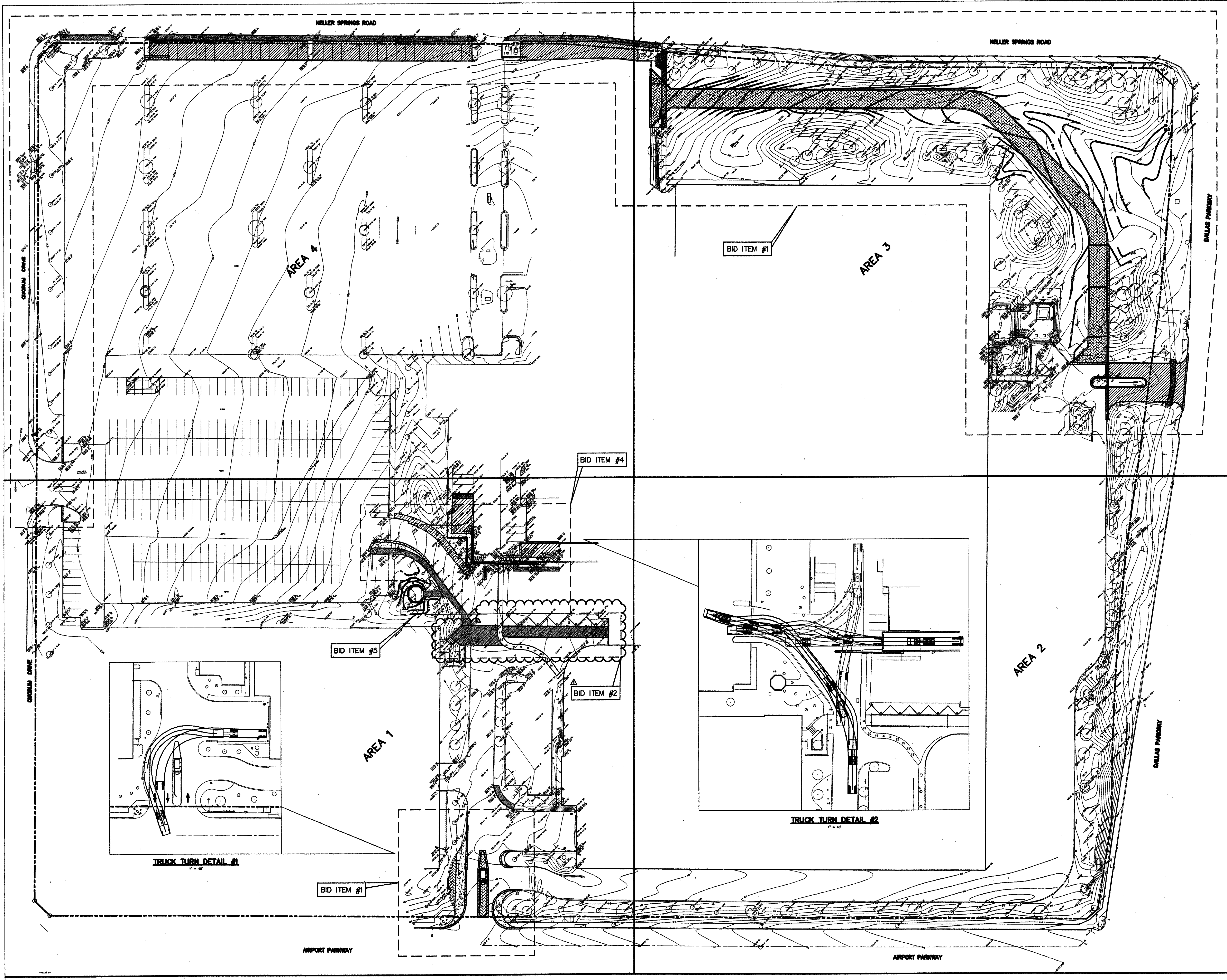
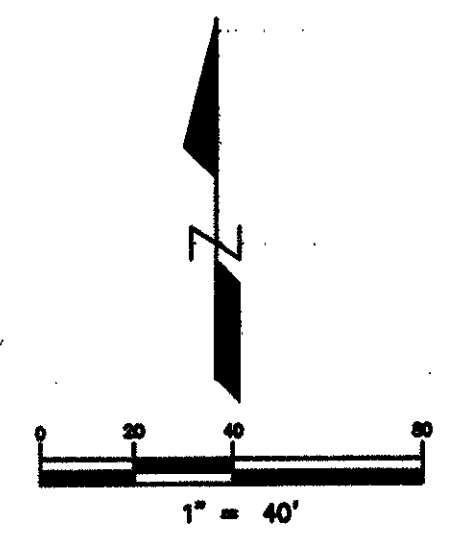
RECEIVED  
OCT 04 2002  
WHITING-TURNER  
DALLAS OFFICE

**TOMDEN ENGINEERING**  
12655 N. CENTRAL #1016  
DALLAS, TEXAS 75243  
(972) 386-6448 FAX: (972) 386-6409  
EMAIL: tomden@mail.net  
JOB No. 100.29

OVERALL PLAN

JOB 02143.00  
DATE 23 SEPT 02  
SHEET

C1.0



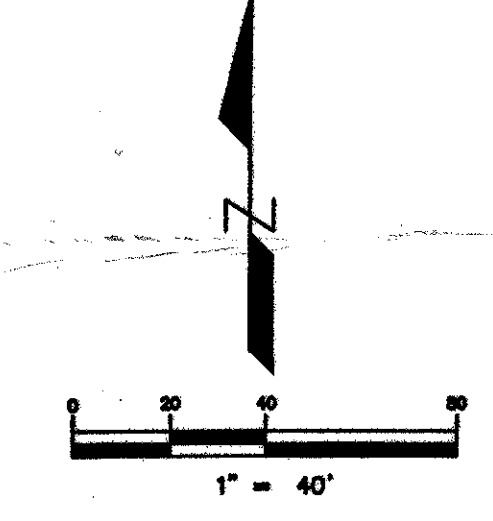
1) Obtain ROW Excavation Permit from:  
Town of Addison  
Public Works Dept.  
16801 Westgrove Rd.  
Addison, 75001

2) Note changes to Sidewalk + curb Specs. Also:  
SEE ATTACHED

3) Curb expansion "bars" are to be placed at all locations where new curb abuts existing.



9-619



| 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          |         |

RECEIVED  
 11/13/02  
 WHITE - JUNIOR  
 DALLAS OFFICE

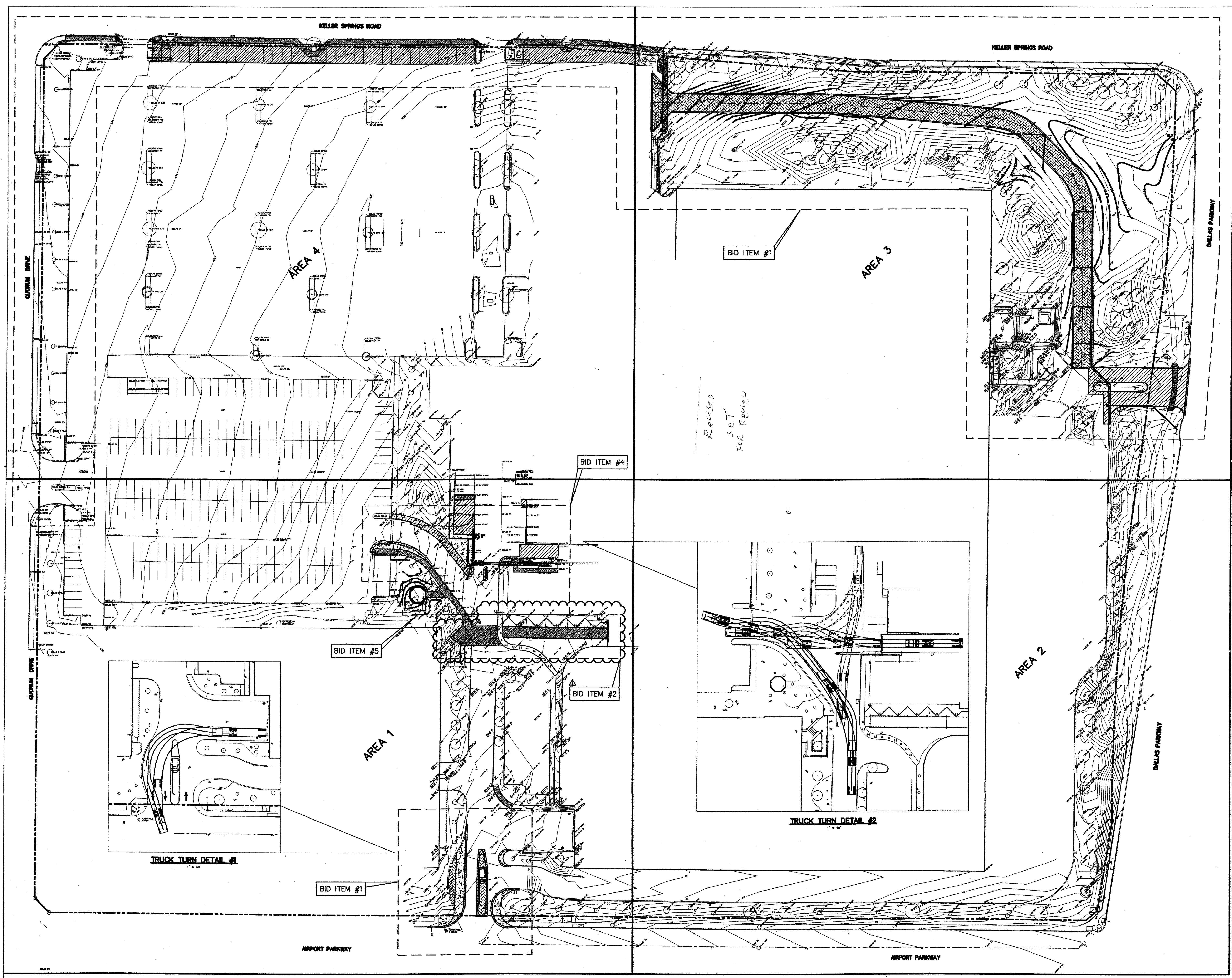
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY THOMAS P. JONES, P.E. 26887, ON 12/03/01

**MBNA**  
 AMERICA<sup>SM</sup>  
 16001 DALLAS PARKWAY  
 HALLMARK CENTER SITE HARDENING

**TOMDEN ENGINEERING**  
 12655 N. CENTRAL #1016  
 DALLAS, TEXAS 75243  
 (972) 386-6446 FAX: (972) 386-6409  
 EMAIL: tomden@atmalnet  
 JOB No. 100.29

OVERALL PLAN

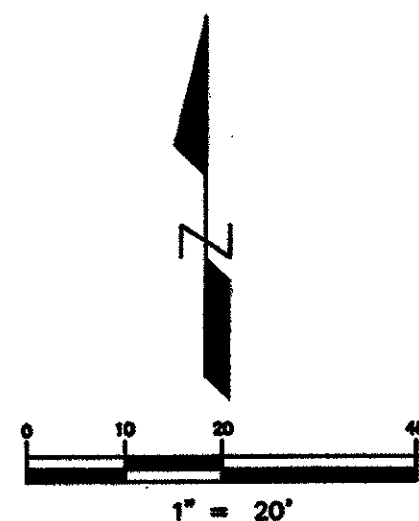
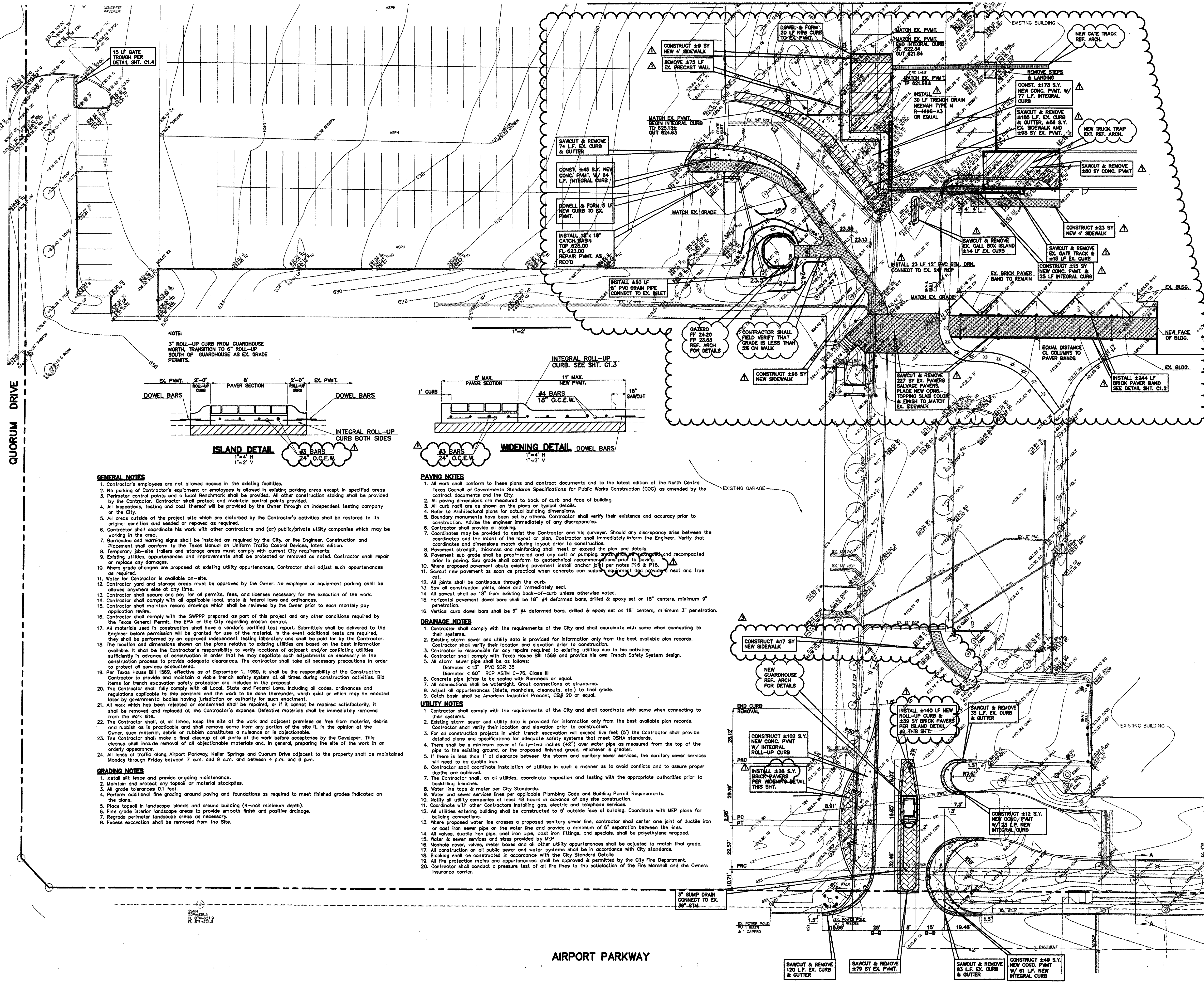
JOB 02143.00  
 DATE 12 NOV 02  
 SHEET  
**C1.0 B19-6**



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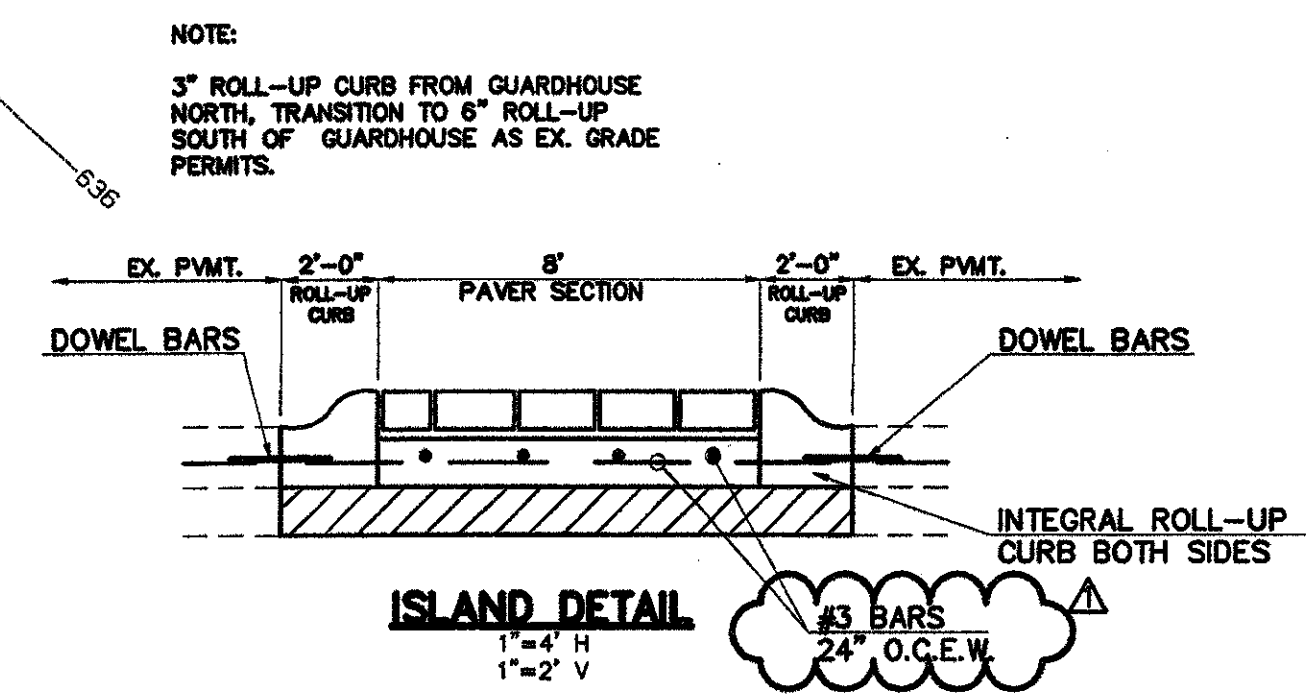


MATCH LINE SHEET C1.4



**LEGEND**

|                         |                       |
|-------------------------|-----------------------|
| [Hatched Pattern]       | REMOVAL               |
| [Dotted Pattern]        | 4" SIDEWALK, 3000 PSI |
| [Cross-hatched Pattern] | 6" PAVEMENT, 3600 PSI |
| [Diagonal Lines]        | BRICK PAVERS          |
| [Solid Line]            | CONC. CURB & GUTTER   |
| [Dashed Line]           | EXIST. CONTOUR        |
| [Dotted Line]           | PROP. CONTOUR         |
| [Symbol]                | EXIST. SPOT ELEVATION |
| [Symbol]                | 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. Contractor shall protect and maintain control points provided.
  - All inspections, testing and cost thereof will be provided by the Owner through an independent testing company or the City.
  - All areas outside of the project site which are disturbed by the Contractor's activities shall be restored to its original condition and seeded or regraded as required.
  - Contractor shall coordinate his work with other contractors and (or) public/private utility companies which may be working in the area.
  - Barriera and warning signs shall be installed as required by the City, or 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 current 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 yard 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 permission will be granted for 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 clearance. 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 8 p.m.
- GRADING NOTES**
- Install all fence and provide ongoing maintenance.
  - 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 landscaped islands and around building (4-inch minimum depth).
  - Final 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 Governments Standards Specifications for Public Works Construction (COG) as amended by the contract documents and the City.
  - All paving dimensions are measured to back of curb and face of building.
  - All curb roll are as shown on the 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 and dimensions 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 conditions corrected and recompacted prior to paving. Sub grade shall conform to geotechnical recommendations prior to paving.
  - Where proposed pavement exists 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 joint.
  - 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 6" #4 deformed bars, drilled & epoxy set on 18" centers, minimum 3" penetration.
- DRAINAGE 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.
  - Contractor is responsible for any records 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 < 18" PVC SDR 35  
Diameter < 60" RCP ASTM C-76, Class III
  - Concrete pipe joints to be sealed with Rammed or equal.
  - All connections shall be watertight. Graft connections at structures.
  - Adjust all appurtenances (lets, manholes, cleanouts, etc) to final grade.
  - Catch basins shall be American Industrial Precast, CBJ 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 the 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 utilities, coordinate inspection and testing with the appropriate authorities prior to backfilling trenches.
  - Water line taps & meter per City Standards.
  - Water and sewer services lines per applicable Plumbing Code and Building Permit Requirements.
  - Notify all utility companies at least 48 hours in advance of any site construction.
  - Coordinate with other Contractors installing gas, electric and telephone services.
  - All utilities entering building shall be constructed to 5' 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 service and sizes provided by MEP.
  - Manhole cover, valves, meter boxes and all other utility appurtenances shall be adjusted to match final grade.
  - All construction on all public sewer and water systems shall be in accordance with City standards.
  - Backfill shall be constructed in accordance with the City Standard Details.
  - All fire protection mains and appurtenances shall be approved & permitted by the City Fire Department.
  - Contractor shall conduct a pressure test of all fire lines to the satisfaction of the Fire Marshal and the Owners insurance carrier.

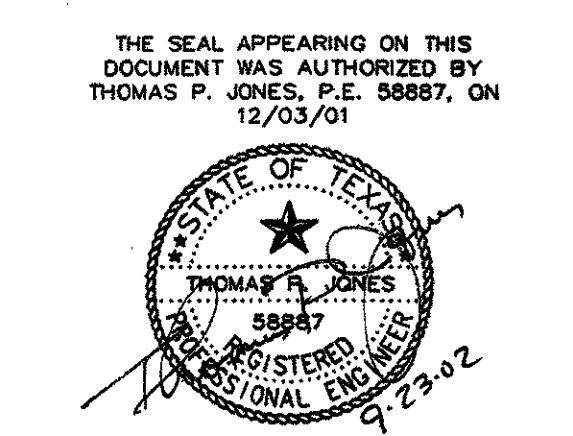
AIRPORT PARKWAY

MATCH LINE SHEET C1.2



**ISSUES**  
2.0 ISSUE FOR CONSTRUCTION  
9/23/02

**REVISIONS**  
ADDENDUM NO. 1  
SERVICE YARD/WEST ENTRY 9/10/02  
ADDENDUM NO. 3



**MBNA AMERICA**  
HALLMARK CENTER SITE HARDENING

RECEIVED  
OCT 04 2002  
WHITING-TURNER  
DALLAS OFFICE

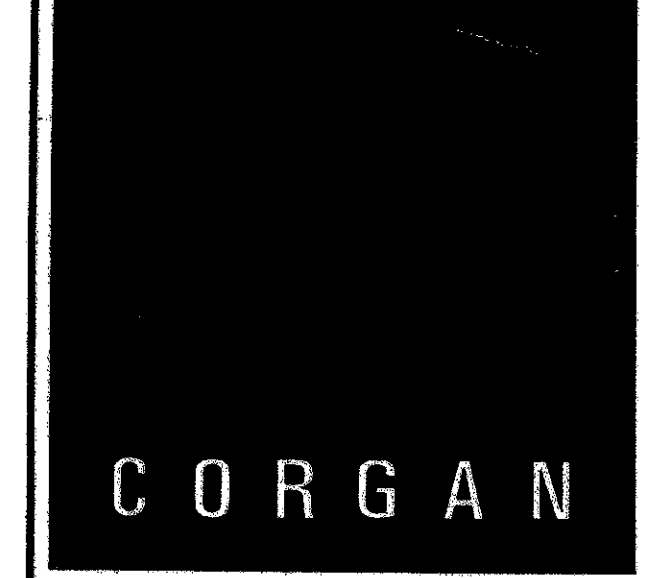
**TOMDEN ENGINEERING**  
12655 N. CENTRAL #1016  
DALLAS, TEXAS 75243  
(972) 388-8446 FAX: (972) 388-8409  
EMAIL: tomden@airmail.net  
JOB No. 100.29

PLAN AREA 1

JOB 02143.00  
DATE 23 SEPT 02  
SHEET  
**C1.1**



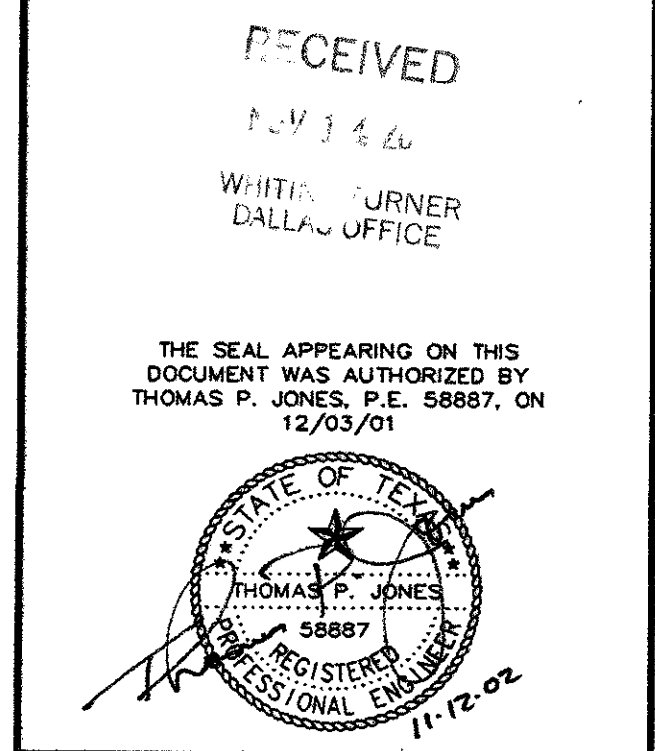
MATCH LINE SHEET C1.4



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  
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY THOMAS P. JONES, P.E. LICENSED ON 12/03/01

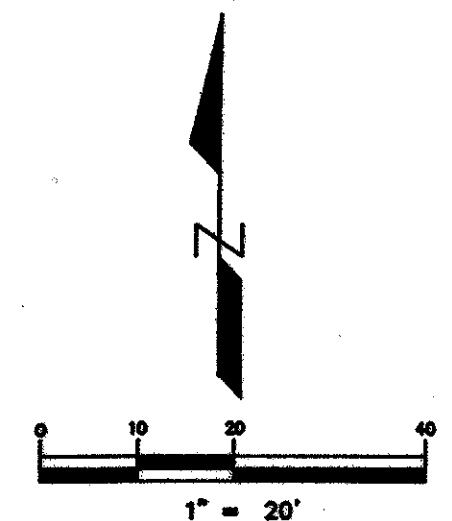


**MBNA**  
AMERICAN  
HALLMARK CENTER SITE HARDENING

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

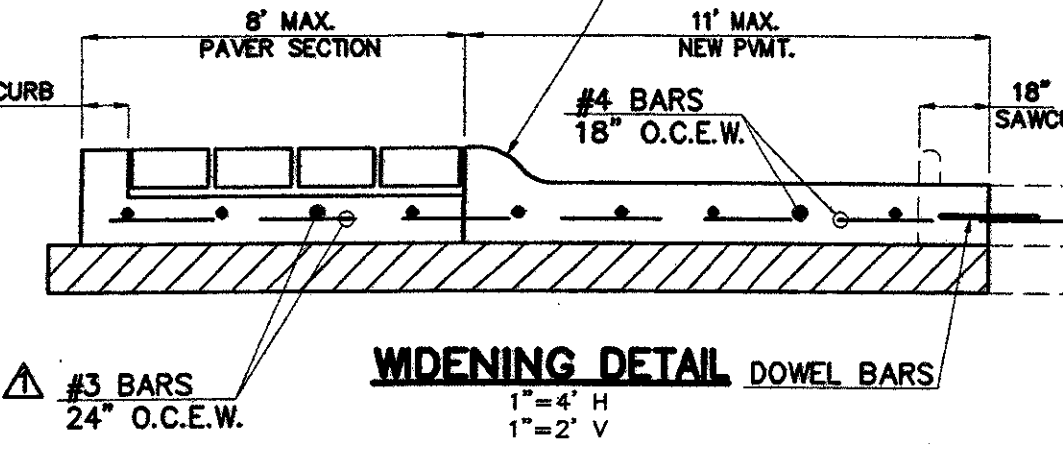
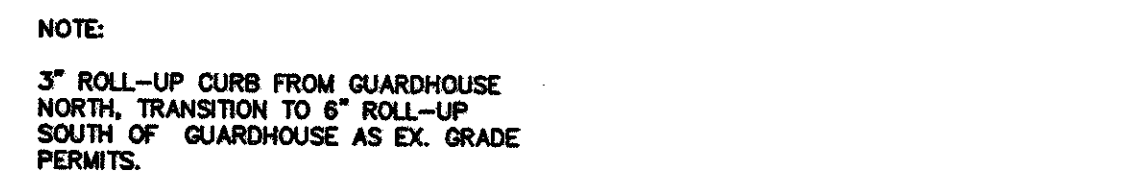
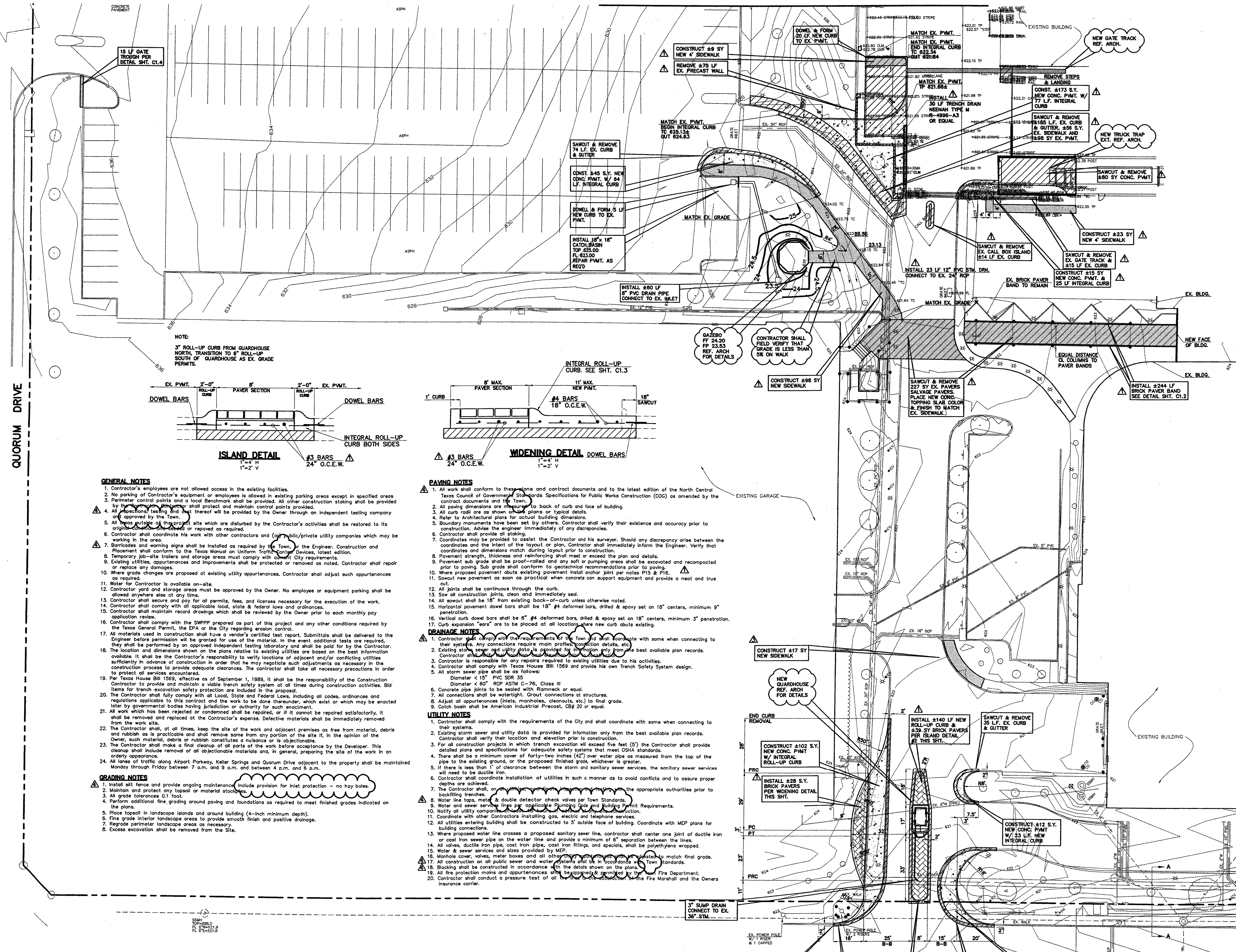
PLAN AREA 1

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         |
| [Symbol]                | EXIST. SPOT ELEVATION |
| [Symbol]                | 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 trees outside of the project site which are disturbed by the Contractor's activities shall be restored to their original condition or replaced 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 permission is granted for 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 plan 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 and dimensions 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 (typical details, etc).
  - Existing storm sewer and utility data is provided for information only from the best available plan records.
  - Contractor shall verify the 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 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 excavation.
  - Water line taps, meter & double detector check valves per Town Standards.
  - Water and sewer service lines per applicable Plumbing Code and Building Department Requirements.
  - Notify all utility companies of any excavation activities.
  - 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 lines to be installed in accordance with the Fire Marshal and the Owners insurance carrier.

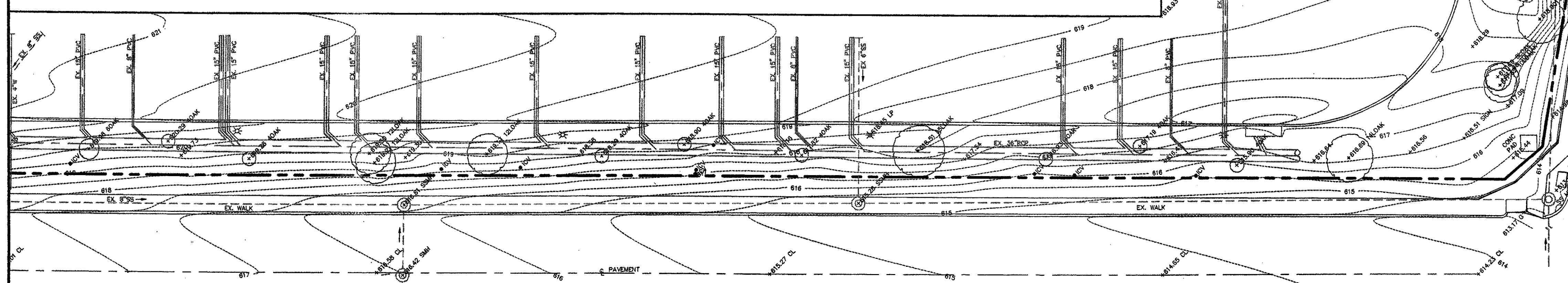
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AIRPORT PARKWAY & QUORUM  
ELEV. 631.15

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09/20/02 12:19  
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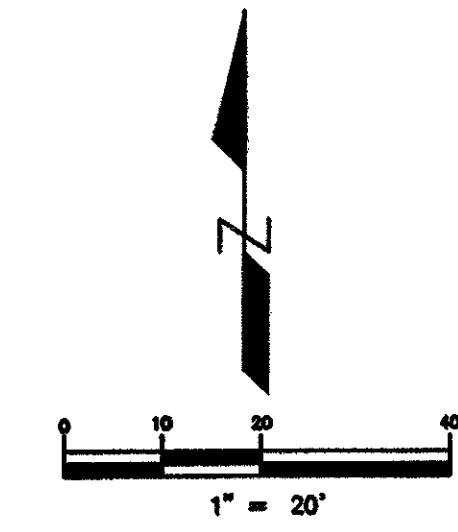
MATCH LINE SHEET C1.1



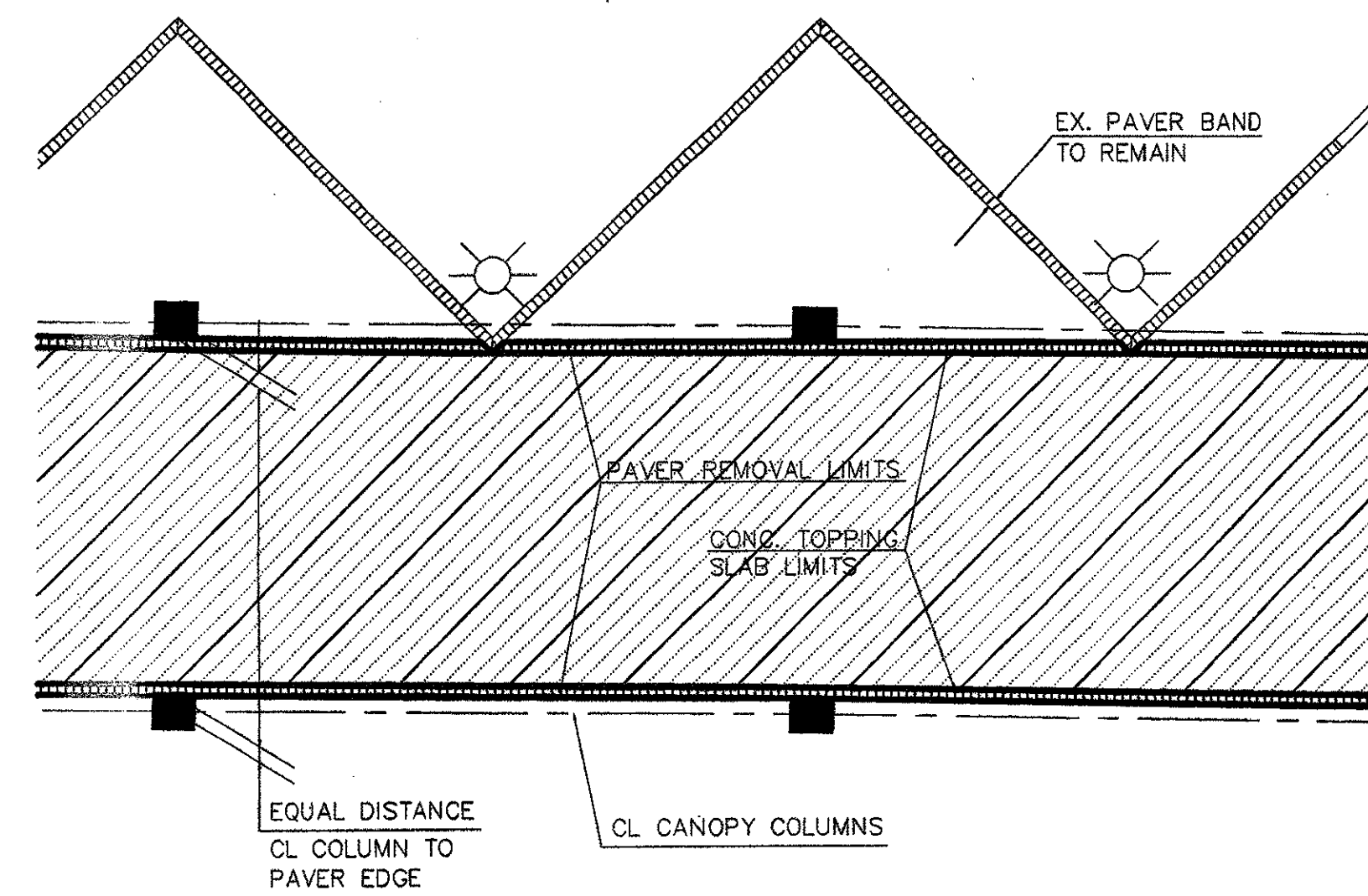
AIRPORT PARKWAY

DALLAS PARKWAY

MATCH LINE SHEET C1.3



- LEGEND**
- REMOVAL
  - 4" SIDEWALK
  - 6" PAVEMENT
  - BRICK PAVERS
  - CONC. CURB & GUTTER
  - EXIST. CONTOUR
  - PROP. CONTOUR
  - EXIST. SPOT ELEVATION
  - PROP. SPOT ELEVATION

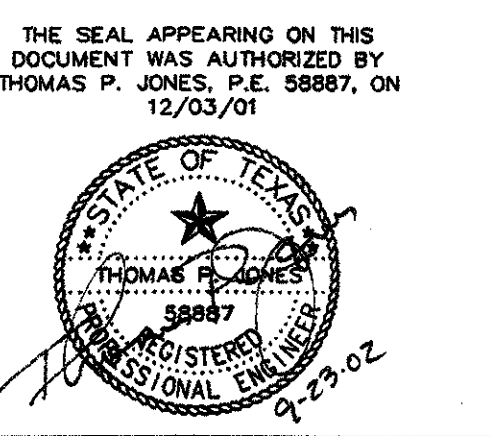


C O R G A N

ISSUES  
 2.0 ISSUE FOR CONSTRUCTION  
 9/23/02

REVISIONS

ADDENDUM NO. 3



**MBNA**  
 AMERICA<sup>SM</sup>  
 HALLMARK CENTER SITE HARDENING

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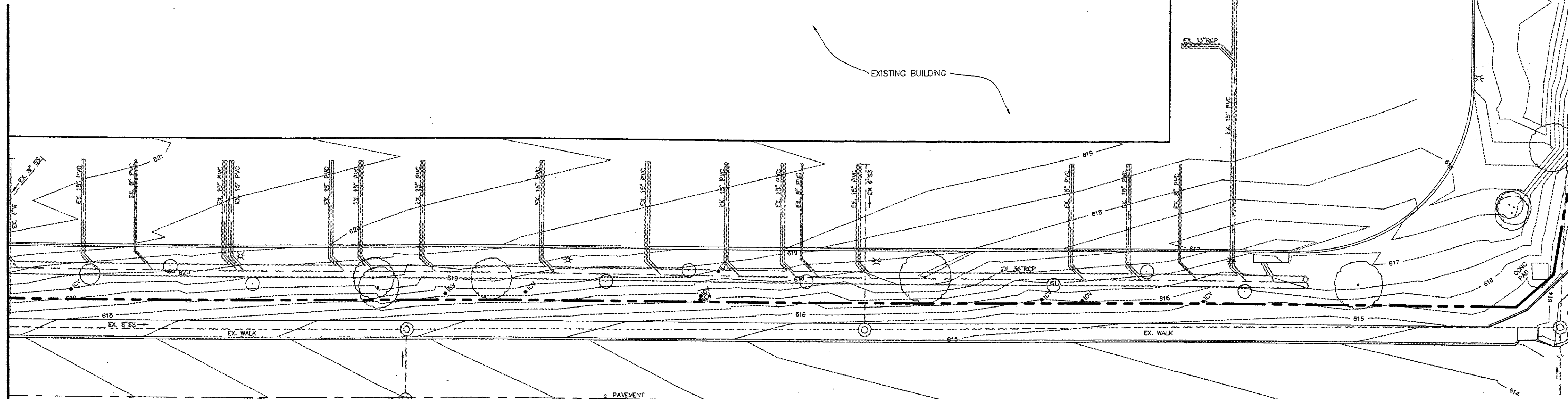
**TOMDEN ENGINEERING**  
 12655 N. CENTRAL #1016  
 DALLAS, TEXAS 75243  
 (972) 388-6448 FAX: (972) 388-6409  
 EMAIL: tom@tomden.net  
 JCB No. 100.29

PLAN AREA 2

JOB 02143.00  
 DATE 23 SEPT 02  
 SHEET  
 C1.2

11/12/02 14:39  
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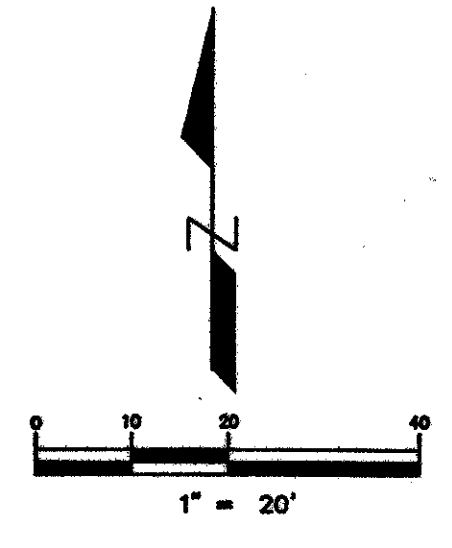
MATCH LINE SHEET C1.1






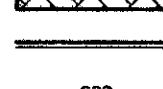
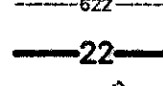




AIRPORT PARKWAY

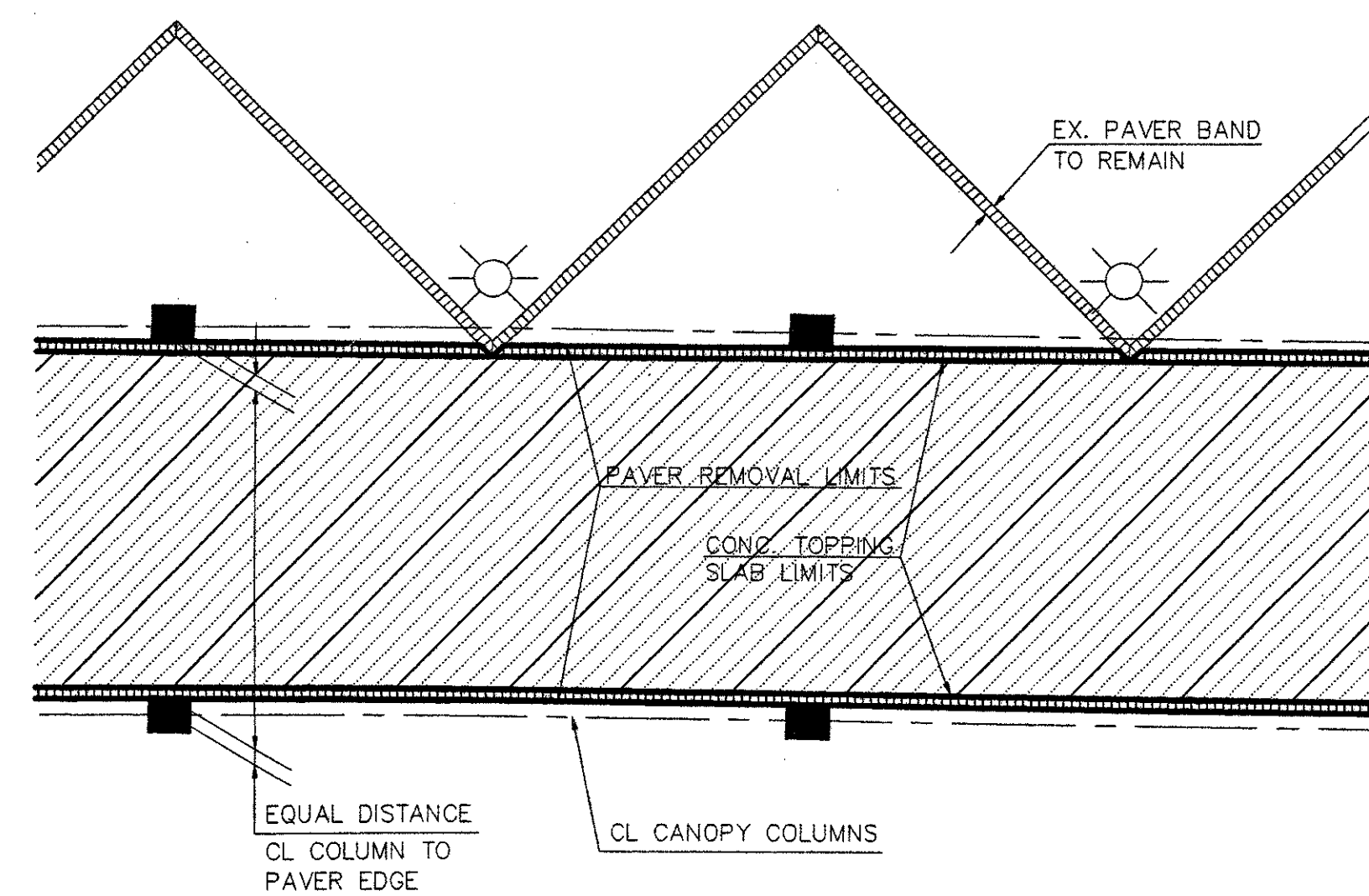
DALLAS PARKWAY

MATCH LINE SHEET C1.3



LEGEND

-  REMOVAL
-  4" SIDEWALK
-  6" PAVEMENT
-  BRICK PAVERS
-  CONC. CURB & GUTTER
-  EXIST. CONTOUR
-  PROP. CONTOUR
-  EXIST. SPOT ELEVATION
-  PROP. SPOT ELEVATION



CORGAN

ISSUES

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

REVISIONS

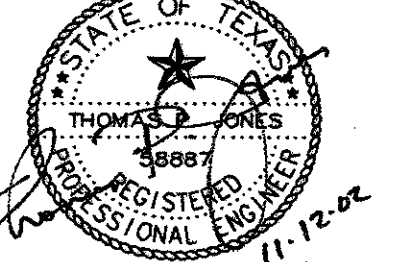
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| ADDENDUM NO. 3 |
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HALLMARK CENTER SITE HARDENING

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 JOB No. 100.29

PLAN AREA 2

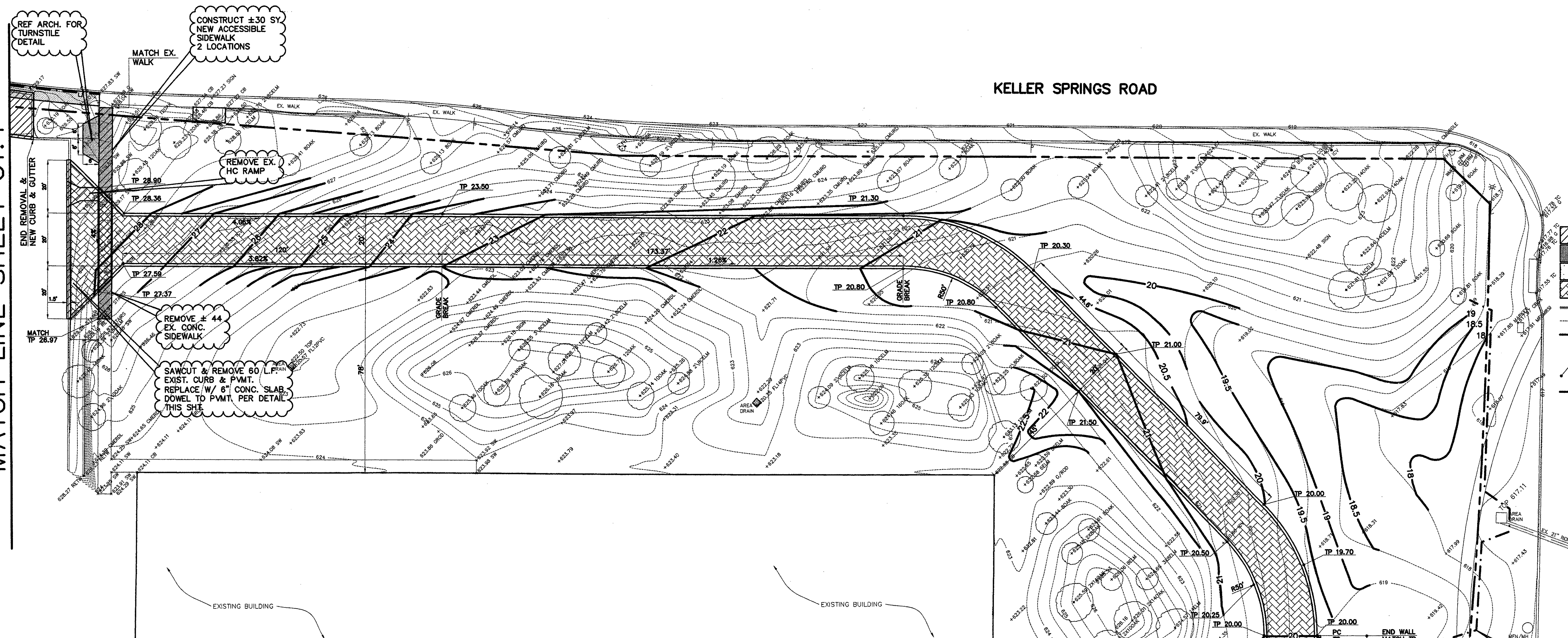
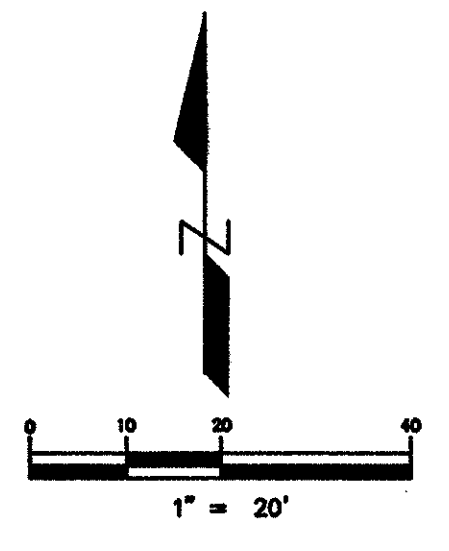
JOB - 02143.00  
 DATE 12 NOV 02  
 SHEET  
**C1.2**

BENCHMARK  
 BOX OUT ON INLET SE CORNER  
 AIRPORT PKWY. & QUORUM  
 ELEV. 651.15



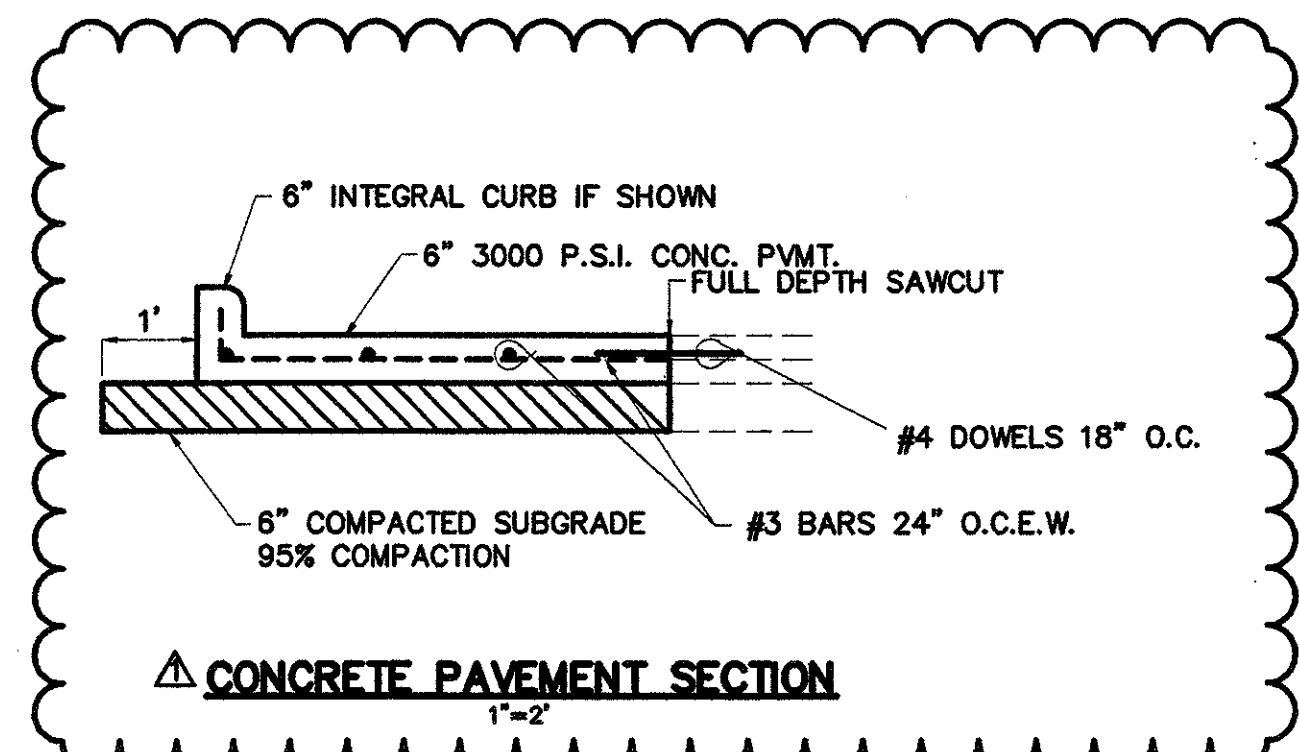
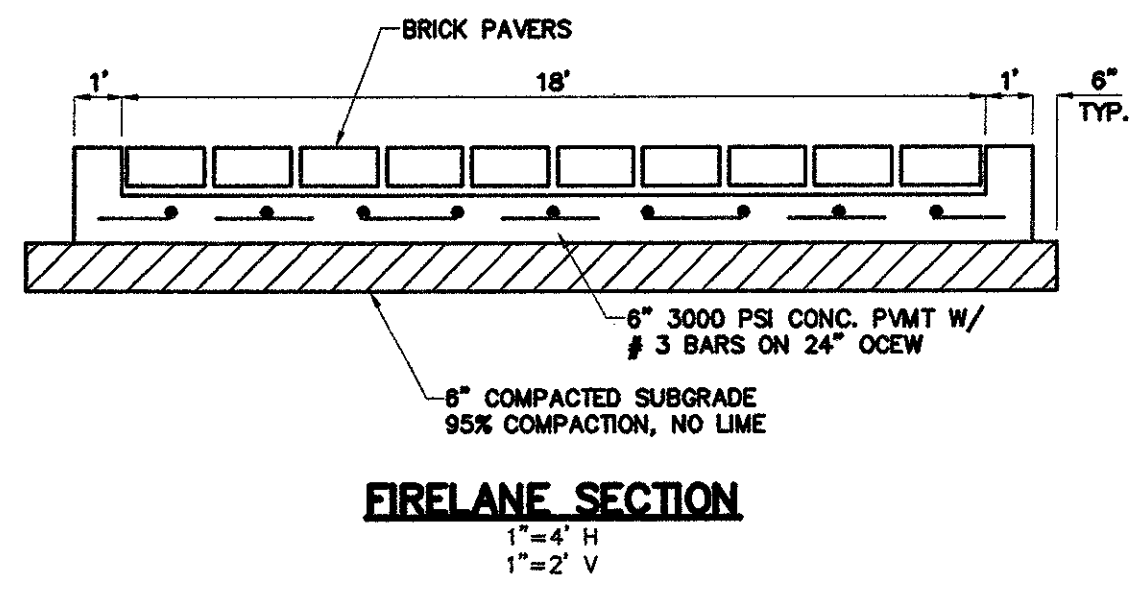
MATCH LINE SHEET C1.4

KELLER SPRINGS ROAD

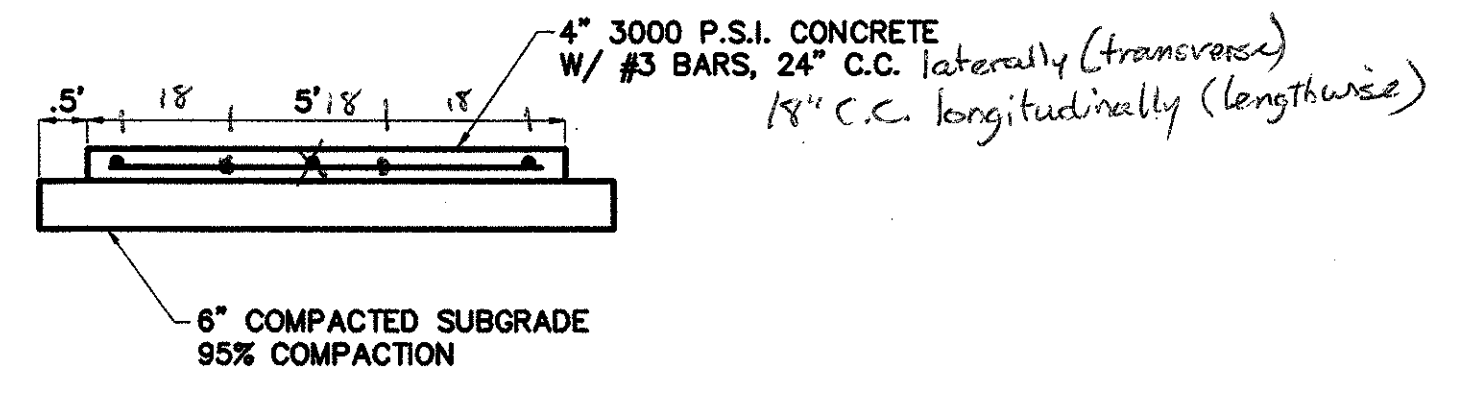
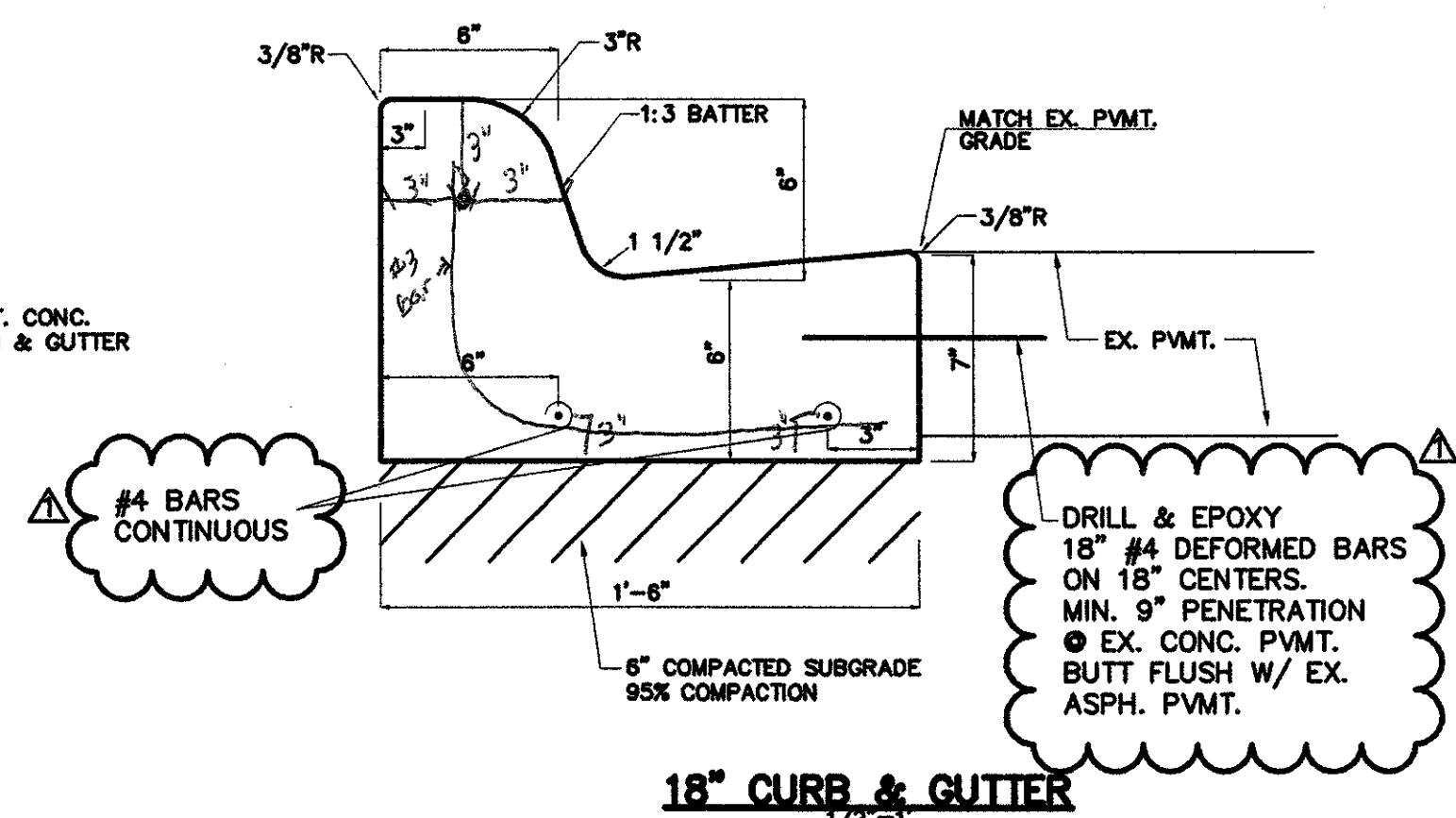
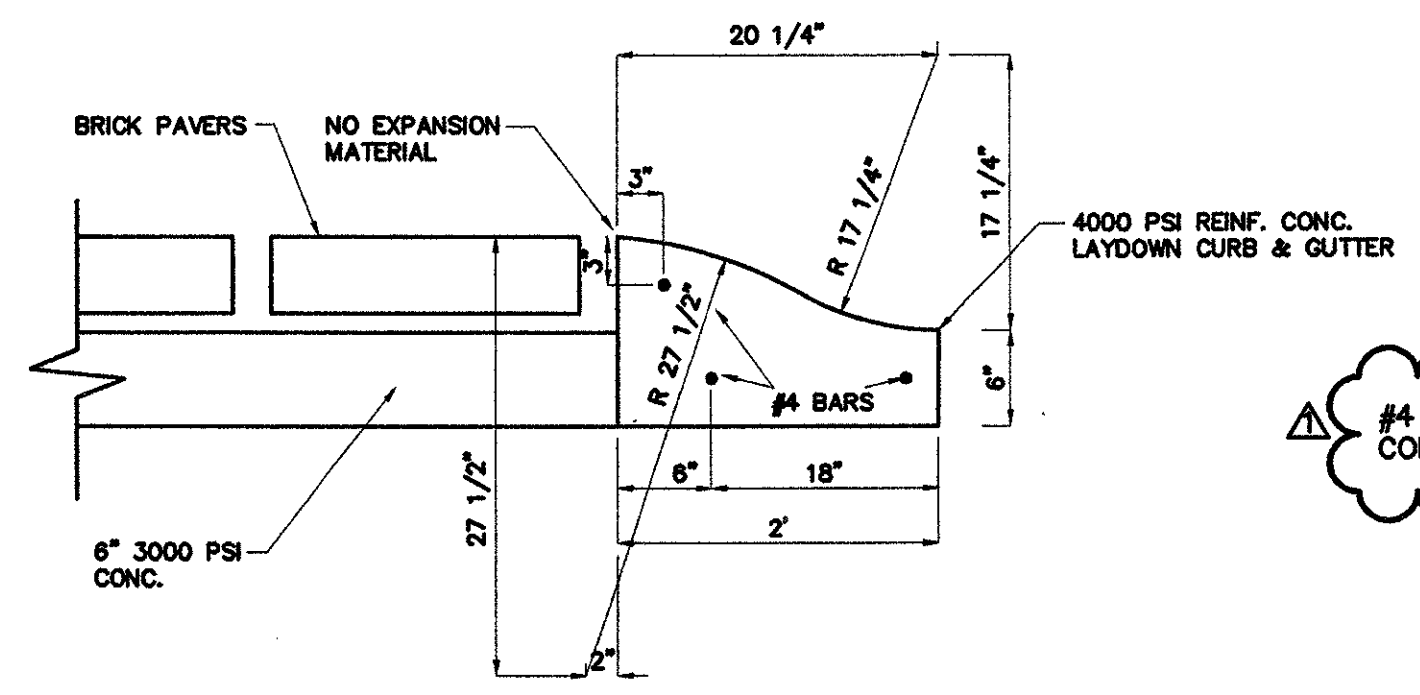


**LEGEND**

|                         |                       |
|-------------------------|-----------------------|
| [Hatched pattern]       | REMOVAL               |
| [Dotted pattern]        | 4" SIDEWALK           |
| [Cross-hatched pattern] | 6" PAVEMENT           |
| [Diagonal lines]        | BRICK PAVERS          |
| [Solid line]            | CONC. CURB & GUTTER   |
| [Dashed line]           | EXIST. CONTOUR        |
| [Solid line]            | PROP. CONTOUR         |
| [Dashed line]           | EXIST. SPOT ELEVATION |
| [Dotted line]           | PROP. SPOT ELEVATION  |
| [Dashed line]           | SILT FENCE            |



- NOTE:**
1. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 P.S.I.
  2. SEPARATE CONCRETE CURB & GUTTER SHALL BE MARKED 3/8" DEEP WITH AN APPROVED TOOL IN 15' FOOT SECTIONS. EACH FOURTH JOINT SHALL BE AN EXPANSION JOINT. THE FILLER SHALL BE OF 3/4" INCH PRE-MOLDED BITUMINOUS JOINT MATERIAL, SHAPED SIMILAR TO THE CROSS SECTION OF CURB & GUTTER. THREE DOWELS SHALL BE EMPLOYED FOR EACH EXPANSION JOINT.
  3. BAR LAPS SHALL BE 30 DIAMETERS.
  4. BARS SHOWN SHALL BE NO. 4.



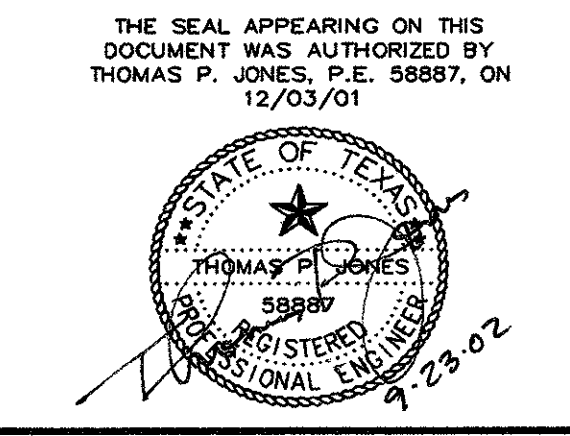
- NOTES:**
1. GROOVED CONTROL JOINTS @ 4' SPACING EXP. JOINTS @ 40' MAX SPACING AND @ INTERSECTIONS.
  2. PROVIDE SAND/BLAST FINISH ON NEW WALKS AND STEPS TO MATCH EXISTING SITE CONCRETE TO REMAIN.

MATCH LINE SHEET C1.2

C O R G A N

ISSUES  
2.0 ISSUE FOR CONSTRUCTION  
9/23/02

REVISIONS  
ADDENDUM NO. 1  
SERVICE YARD/WEST ENTRY 9/10/02  
ADDENDUM NO. 3



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SM  
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TOMDEN ENGINEERING  
12625 N. CENTRAL #1016  
DALLAS, TEXAS 75243  
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EMAIL: tom@tomden.net  
JOB No. 100.29

PLAN AREA 3

JOB 02143.00  
DATE 23 SEPT 02  
SHEET

C1.3

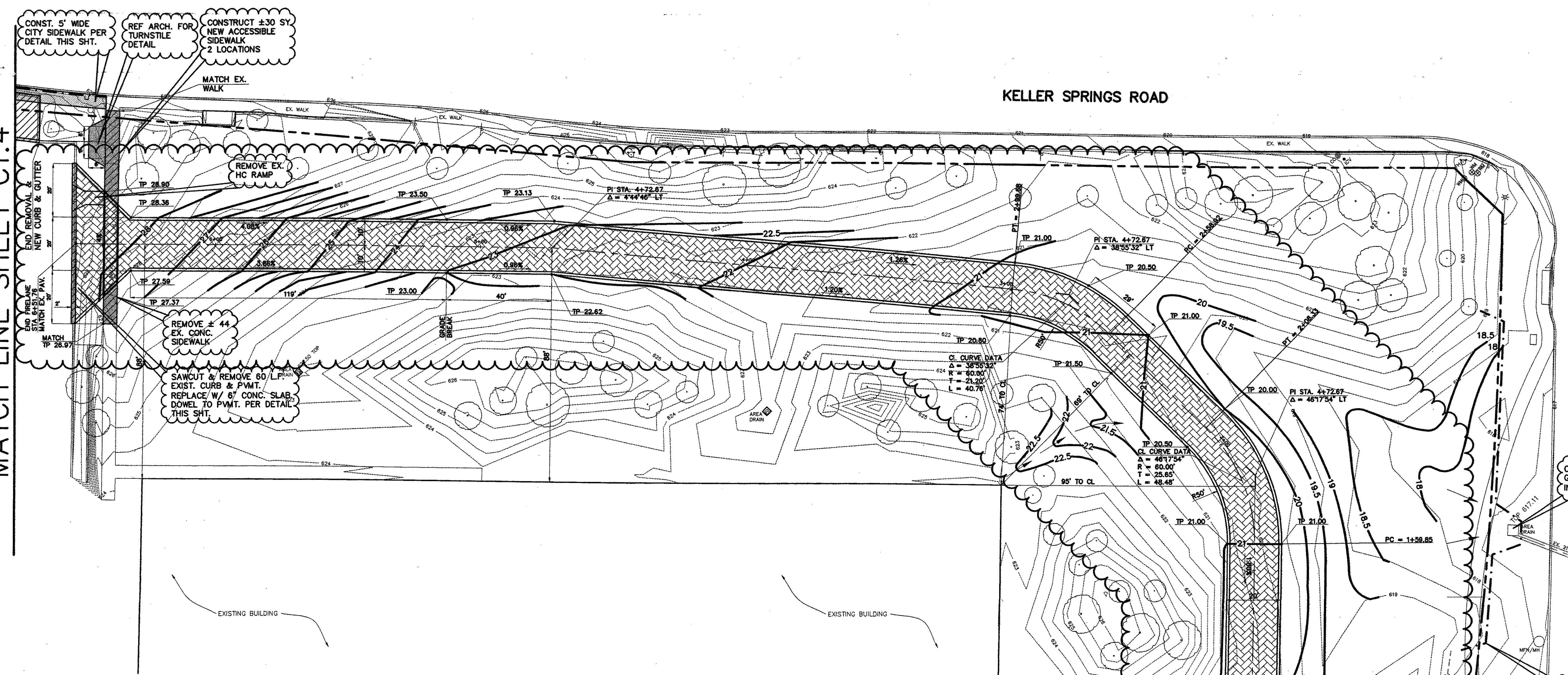
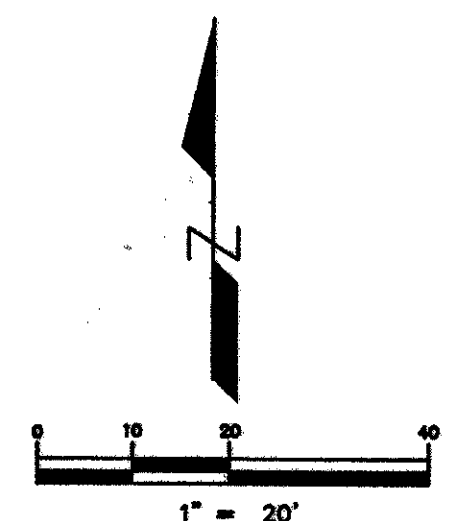
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MATCH LINE SHEET C1.4

KELLER SPRINGS ROAD



**LEGEND**

|                              |                       |
|------------------------------|-----------------------|
| [Hatched pattern]            | REMOVAL               |
| [Dotted pattern]             | 4" SIDEWALK           |
| [Cross-hatched pattern]      | 6" PAVEMENT           |
| [Diagonal lines]             | BRICK PAVERS          |
| [Solid black]                | CONC. CURB & GUTTER   |
| [Dashed line]                | EXIST. CONTOUR        |
| [Solid line]                 | PROP. CONTOUR         |
| [Circle with 'E']            | EXIST. SPOT ELEVATION |
| [Circle with 'P']            | PROP. SPOT ELEVATION  |
| [Dashed line with triangles] | SILT FENCE            |

**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 | REVISED FIRELANE, ADDED INLET AND TOWN SIDEWALK DETAIL |

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 NOV 14 2002  
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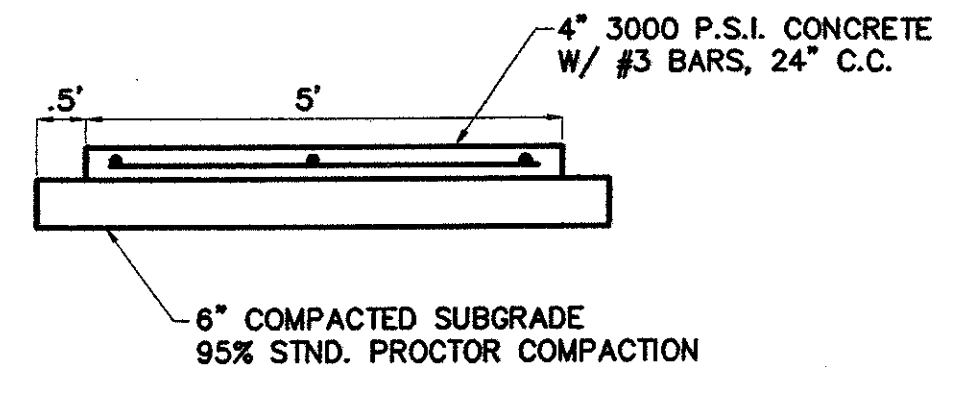
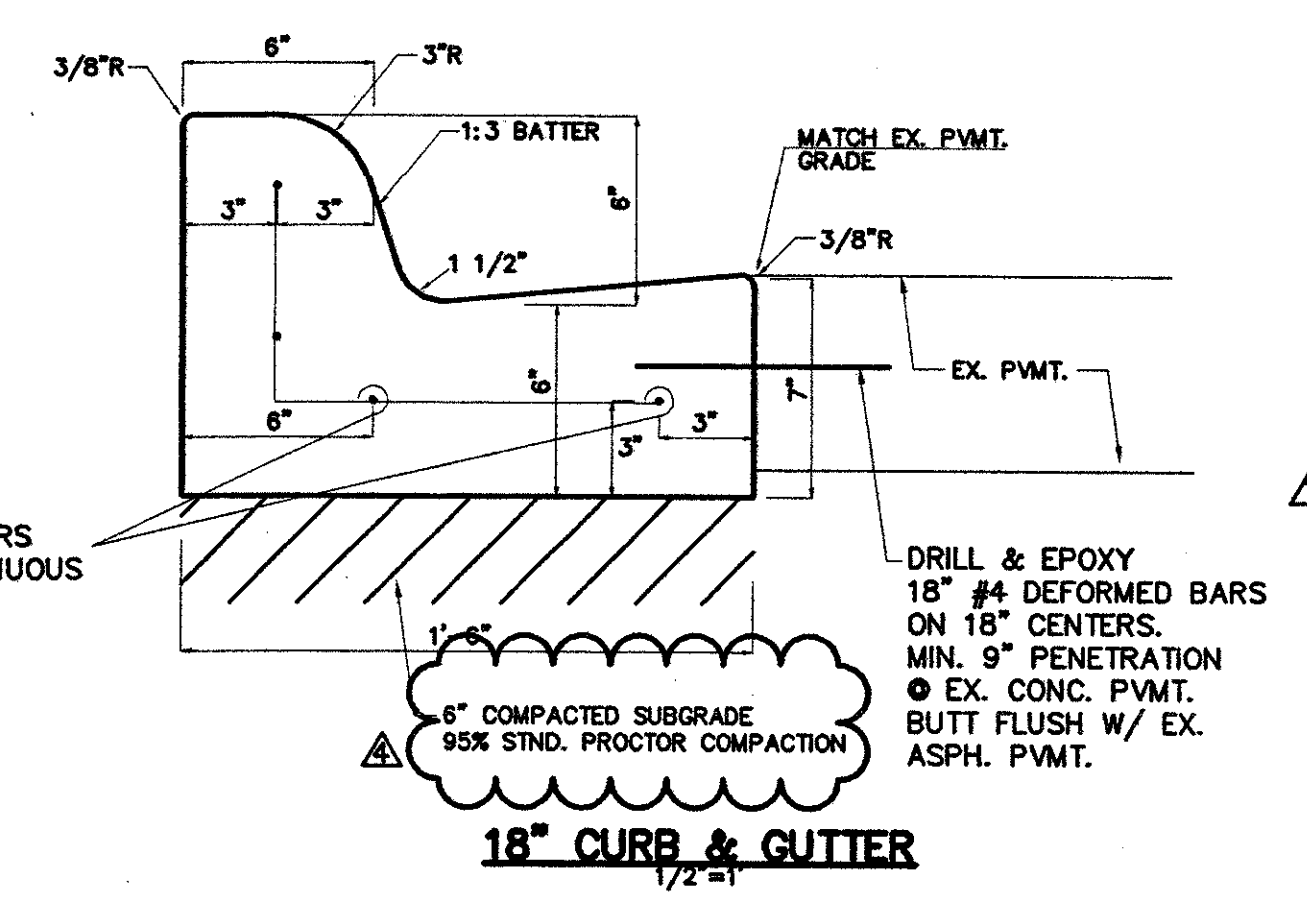
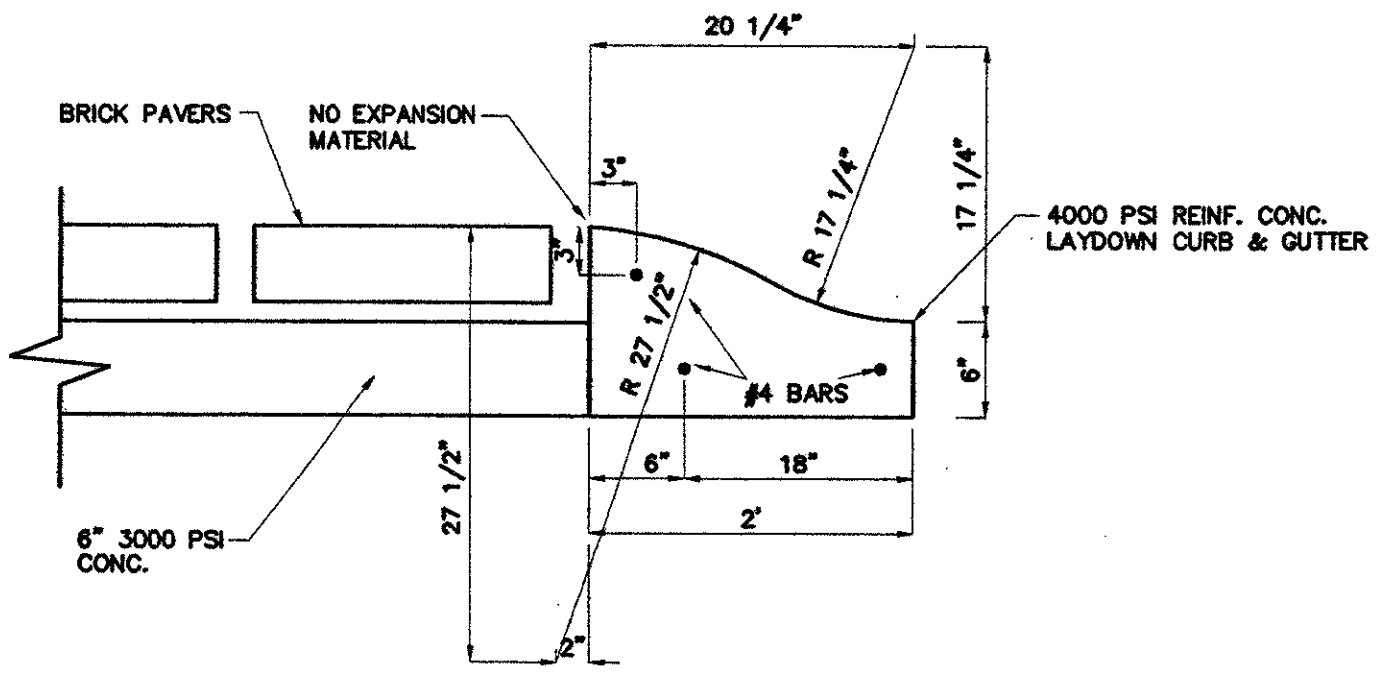
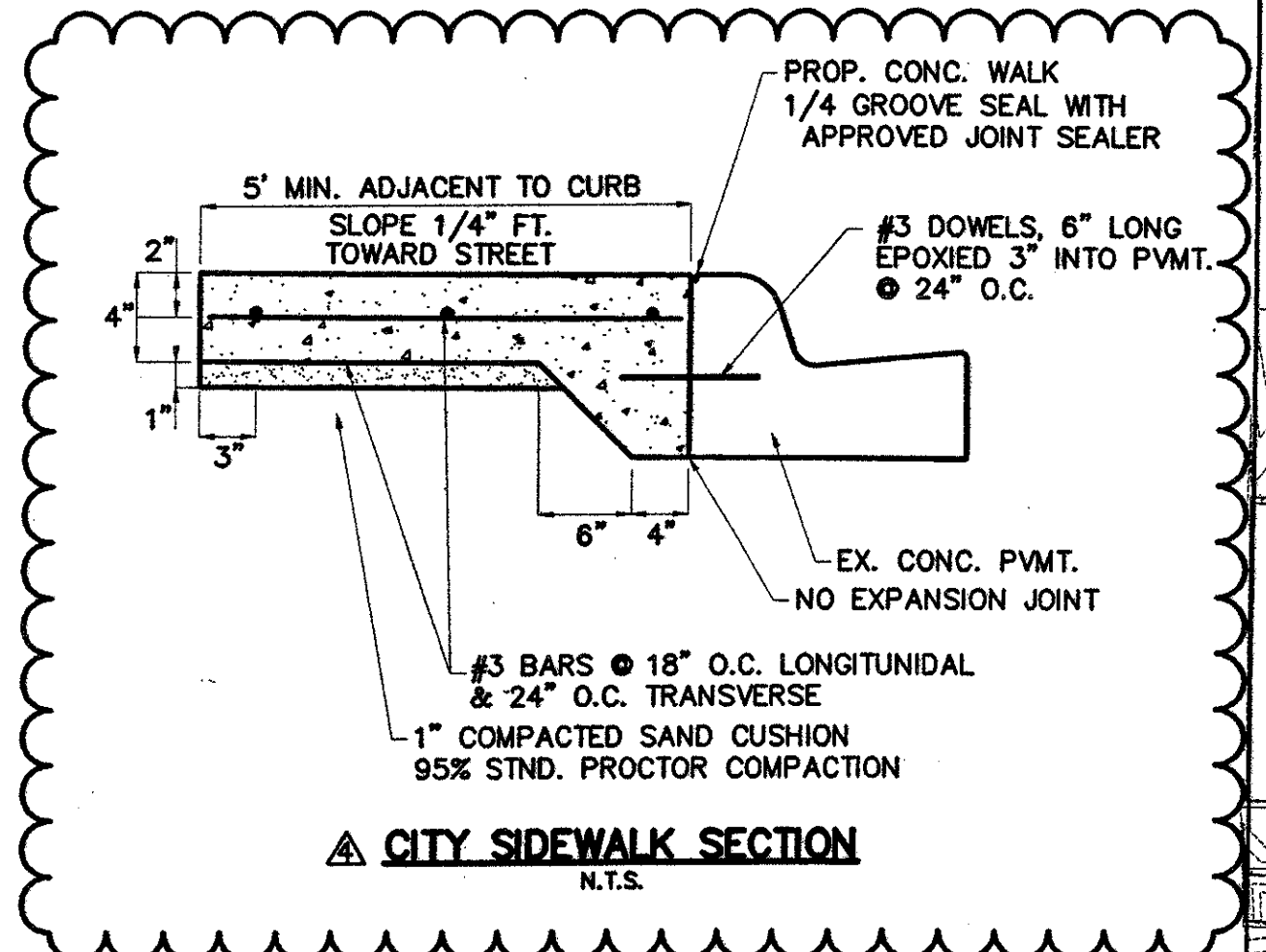
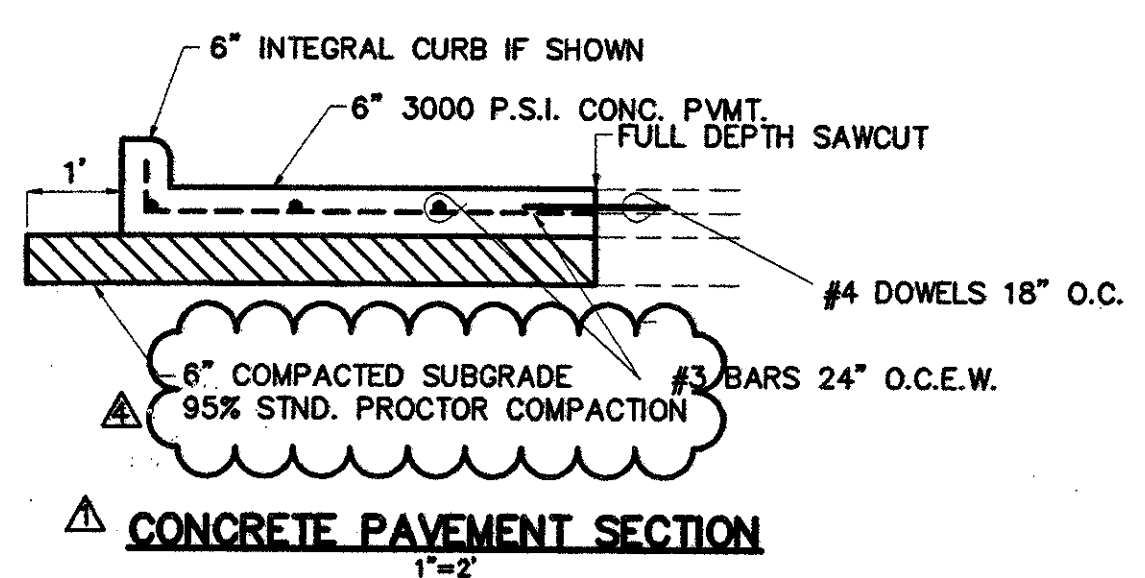
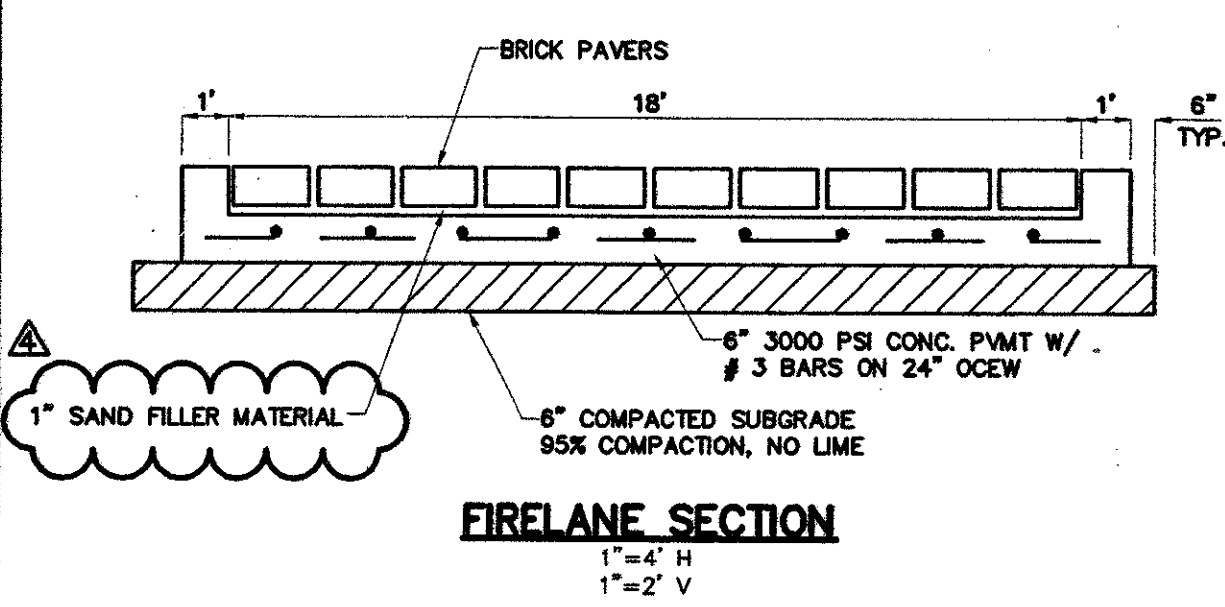
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**MBNA**  
 AMERICAN  
 HALLMARK CENTER SITE HARDENING

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 EMAIL: tom@tomden.com  
 JOB No. 10029

PLAN AREA 3

JOB 02143.00  
 DATE 12 NOV 02  
 SHEET  
**C1.3**



- NOTE:**
- THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 P.S.I.
  - SEPARATE CONCRETE CURB & GUTTER SHALL BE MARKED 3/8\"/>

- NOTES:**
- GROOVED CONTROL JOINTS @ 4' SPACING EXP. JOINTS @ 48' MAX SPACING AND @ INTERSECTIONS.
  - PROVIDE SANDBLAST FINISH ON NEW WALKS AND STEPS TO MATCH EXISTING SITE CONCRETE TO REMAIN.

CONTRACTOR SHALL GRADE SITE TO DRAIN INTO "I" INLET

INSTALL 130 LF SILT FENCE & MAINTAIN UNTIL LANDSCAPING IS IN PLACE

LANE CLOSURE IF RECORD SHALL BE PER THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS FIGURE 7A-18

CONSTRUCT ± 28 S.Y. NEW 5' CITY SIDEWALK PER DETAIL THIS SHIT.

REF LANDSCAPE PLAN FOR ADD'L GRADING IN THIS AREA

CONSTRUCT 59 LF. 18\"/>

INSTALL 80 LF SILT FENCE @ BK OF CURB & MAINTAIN UNTIL LANDSCAPING IS IN PLACE

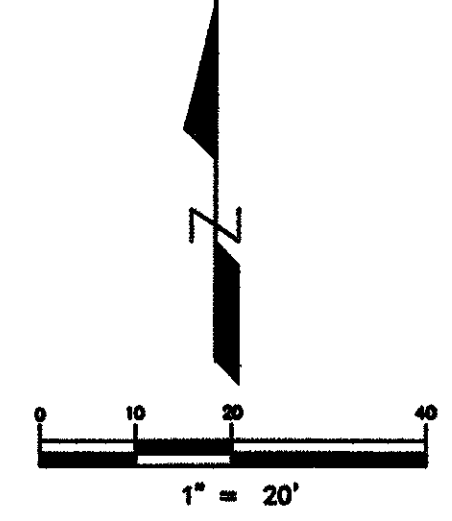
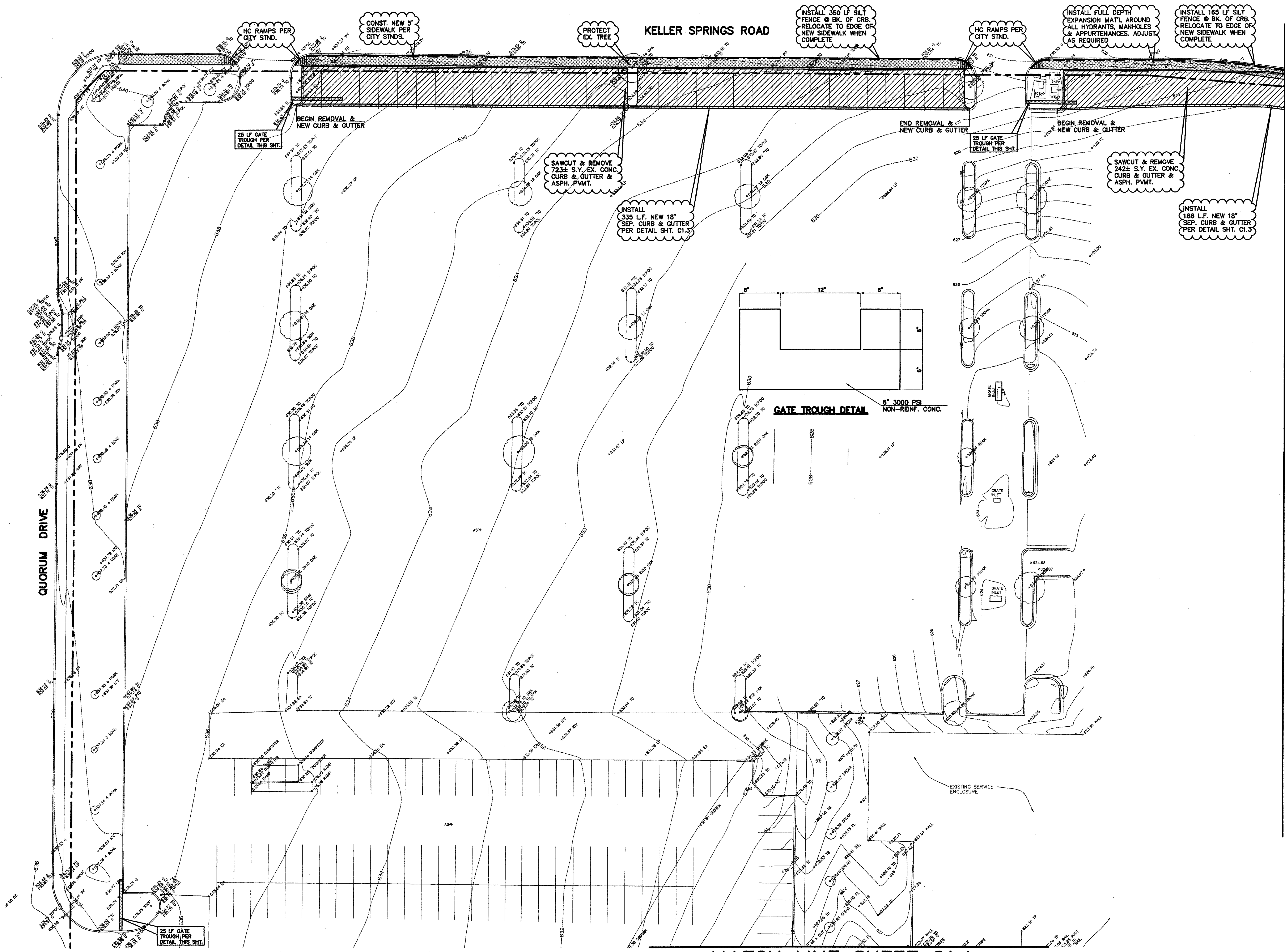
REMOVE 347± S.Y. EXIST. PVMT & CURB & HANDICAP RAMPS

MATCH LINE SHEET C1.2

**BENCHMARK**  
 BOX CUT ON INLET SE CORNER AIRPORT PAVT. & QUORUM ELEV. 631.15



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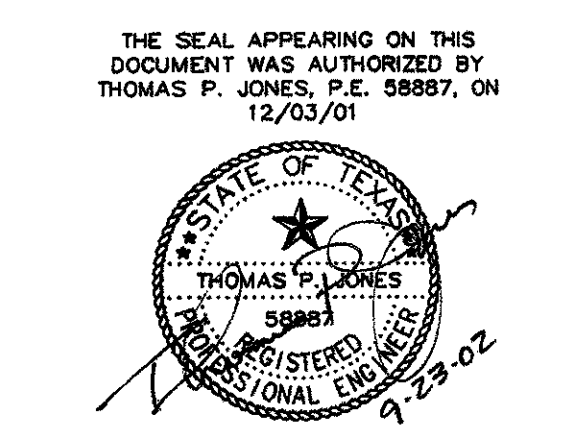


- LEGEND**
- REMOVAL
  - 4" SIDEWALK
  - 6" PAVEMENT
  - BRICK PAVERS
  - CONC. CURB & GUTTER
  - EXIST. CONTOUR
  - PROP. CONTOUR
  - EXIST. SPOT ELEVATION
  - PROP. SPOT ELEVATION
  - SILT FENCE

CORGAN

ISSUES  
2.0 ISSUE FOR CONSTRUCTION  
9/23/02

REVISIONS



**MBNA**  
AMERICA<sup>SM</sup>  
HALLMARK CENTER SITE HARDENING

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EMAIL: tomden@aimall.net  
JOB No. 100.29

PLAN AREA 4

JOB 02143.00  
DATE 23 SEPT 02  
SHEET

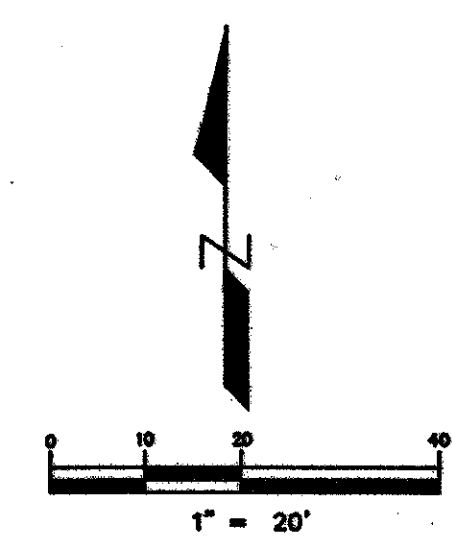
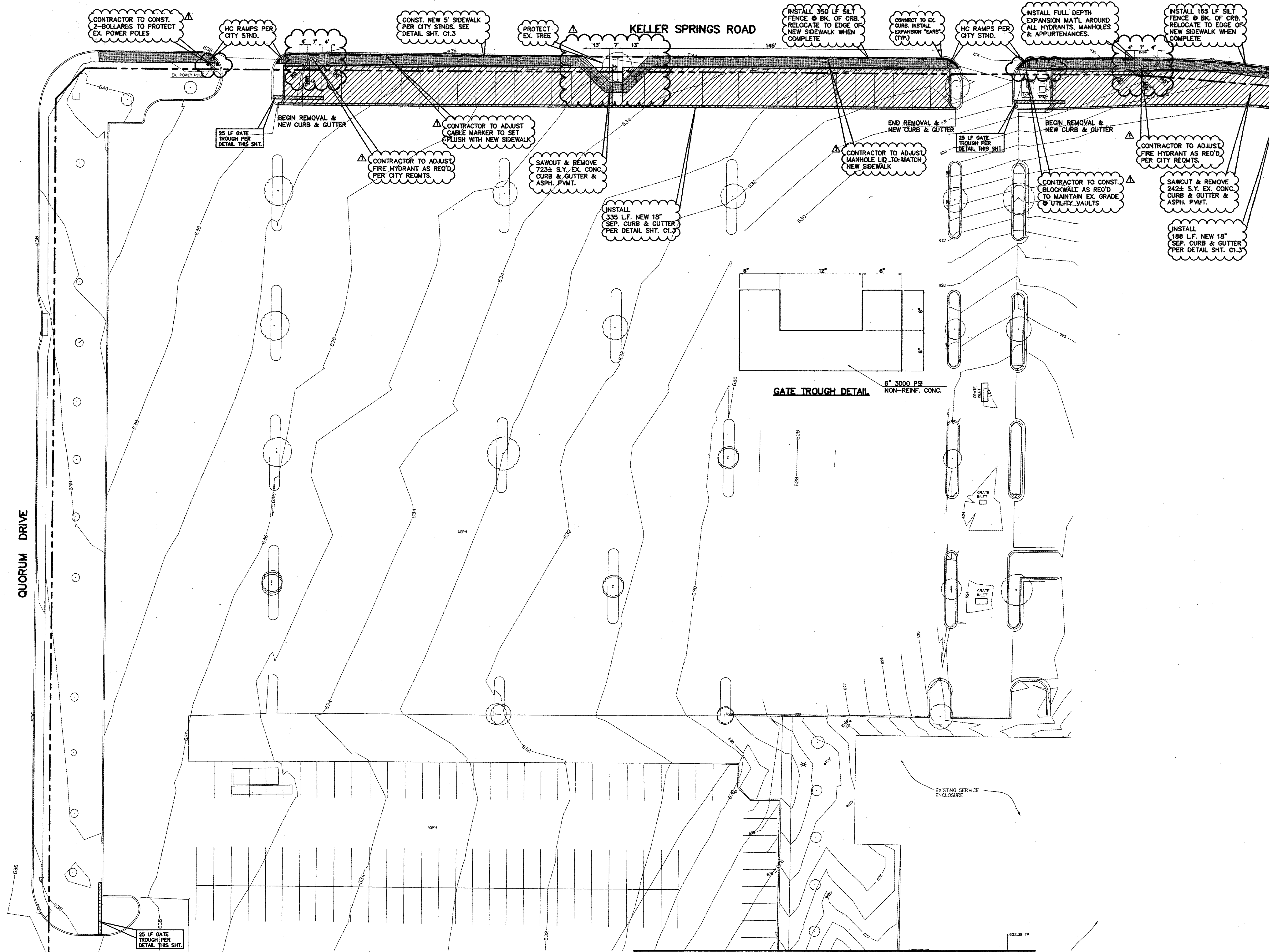
C1.4

MATCH LINE SHEET C1.1

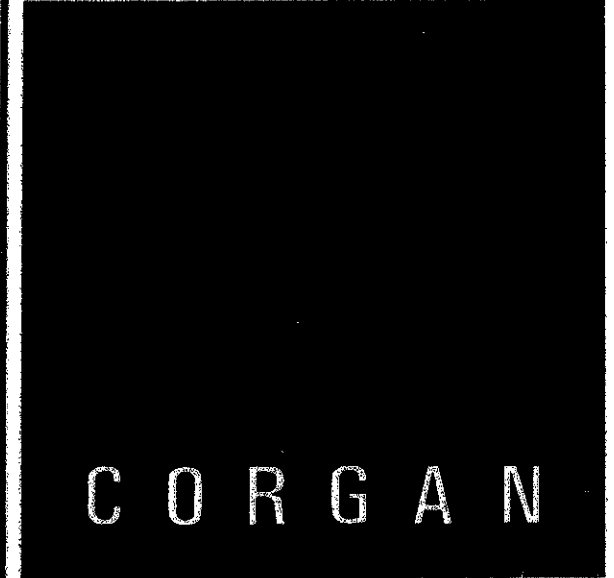
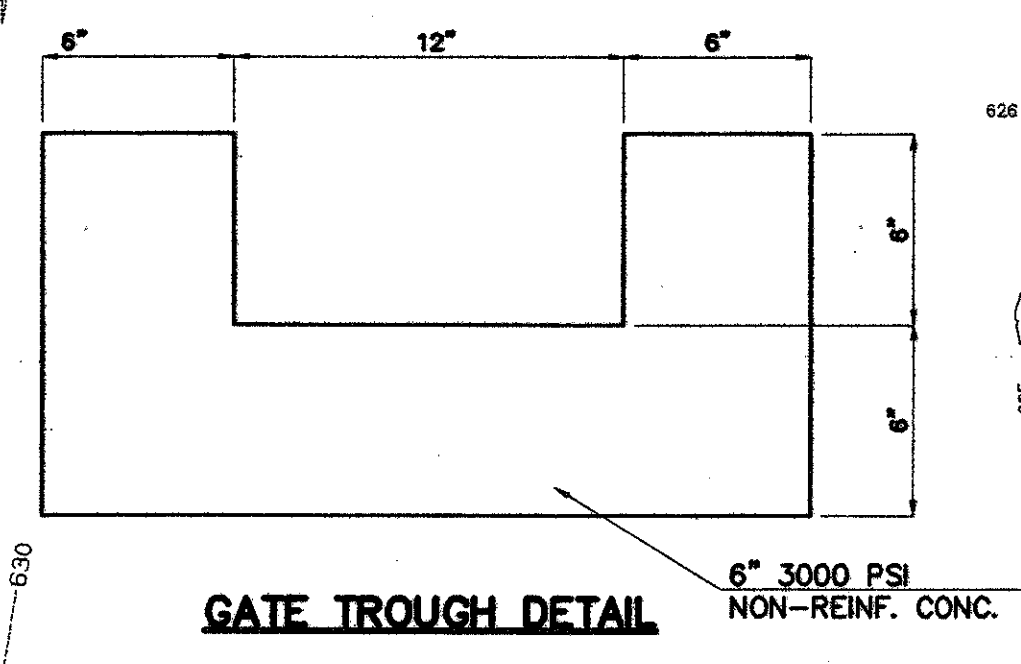
MATCH LINE SHEET C1.3



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- LEGEND**
- REMOVAL
  - 4" SIDEWALK
  - 6" PAVEMENT
  - BRICK PAVERS
  - CONC. CURB & GUTTER
  - EXIST. CONTOUR
  - PROP. CONTOUR
  - EXIST. SPOT ELEVATION
  - PROP. SPOT ELEVATION
  - SILT FENCE



**ISSUES**

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

**REVISIONS**

|  |
|--|
| ADJUSTED SIDEWALKS AROUND TREE & FIRE HYDRANTS. ADDED NOTES TO CONTRACTOR FOR ADJUSTMENT OF UTILITIES AND THE CONSTRUCTION OF THE BLOCKWALL AND THE BOLLARDS AROUND THE POWER POLE |
|--|

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 JOB No. 100.29

PLAN AREA 4

JOB 02143.00  
 DATE 12 NOV 02  
 SHEET

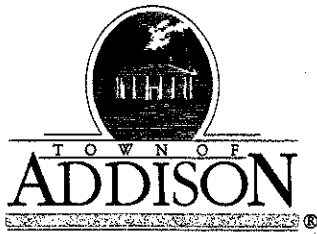
**C1.4**

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

MATCH LINE SHEET C1.1

MATCH LINE SHEET C1.3





**PUBLIC WORKS DEPARTMENT**

(972) 450-2871

Post Office Box 9010 Addison, Texas 75001-9010

16801 Westgrove

## **CONCRETE SIDEWALKS**

The intent of this specification is to describe the minimum acceptable standards for the construction of concrete sidewalks in the Town of Addison.

- 1.1 The Contractor shall furnish all materials and labor as required for the construction of sidewalks, in accordance with approved plans, specifications, and these instructions.
- 1.2 **Excavation:** All excavation required for the construction of sidewalks shall be in accordance with the lines and grades as established by the Town of Addison Sidewalk Procedure and Specifications.

Where excavation for sidewalks necessitates the re-grading of existing berms, the contractor shall grade berms as directed by the Street Superintendent and replant as needed. This work shall also include all necessary back-filling and grading behind retaining walls.

The Contractor shall perform all necessary filling, leveling and fine grading as required to bring the sub-grade to the exact grades specified; and compacted to 95 percent standard proctor density.

- 1.3 **Forms:** Forms shall be of wood or metal, and of a sectional length satisfactory to the Street Superintendent. They shall be free from warp and of a depth equal to the thickness of the finished work. They shall be securely staked to line and grade, and maintained in a true position during the depositing of concrete. Forms shall be set to provide positive drainage for the finished sidewalk.
- 1.4 **Reinforcing Steel:** All steel reinforcement shall be accurately placed, and held in place during progress of concrete placement by such effective means (chairs, ties, etc.) that it shall not be moved out of true position. All reinforcement necessary for a section of concrete shall be placed and approved by the Street Superintendent before any concrete is deposited in the section. All steel must be free from paint and oil; all loose scale, rust, dirt, and other foreign substances shall be completely removed before using. Where new concrete sidewalks abut existing sidewalks 3/8" steel reinforcing bars shall be doweled into existing sidewalk, a minimum of 6" and secured with epoxy.
- 1.5 **Placing:** Concrete shall not be placed when the temperature is below 40 degrees F., and falling; but it may be placed when the temperature is above 35 degrees F., and rising. The temperature being taken in the shade and away from artificial heat. When concrete is being placed in cold weather, the Contractor shall have available for immediate use a sufficient supply of an approved covering material, to immediately protect the concrete when the air temperature falls to 32 degrees F. before the concrete has been in place four (4) hours.



Such protection shall remain in place during the period of not less than five (5) days. Neither salt nor chemical admixtures shall be added to the concrete to prevent freezing. The Contractor shall be responsible for the quality and strength of concrete under cold weather conditions, and all concrete damaged by freezing shall be removed and replaced by the Contractor at his own expense.

- 1.6. **Finishing:** Concrete sidewalks shall be finished to a true, even surface. They shall be troweled and finished with a light broom transverse to the direction of traffic. Where adjacent sidewalks differ from this standard, new sidewalks shall conform to adjacent sidewalks, i.e., exposed aggregate. Joints and all edges shall be finished to a one-quarter ( $\frac{1}{4}$ ) inch radius with suitable edging tools.
- 1.7. **Joints:** Expansion joints for sidewalks shall be formed using expansion joint material of an approved type and shaped to the section. Expansion joints shall be placed in sidewalks at 40-foot intervals, and to match street expansion joints when possible. Expansion joints shall also be placed at all driveways, curbs, foundations, other sidewalks, and other adjacent concrete work. Similar material shall be placed around all obstructions protruding into or through sidewalks. All expansion joints shall be  $\frac{1}{2}$  inch in thickness. Sidewalks shall be jointed with a  $\frac{1}{4}$ " radius trowel at intervals equal to the width of the sidewalk. Any expansion material extending above the finished work shall be neatly trimmed to the surface of the finished work. All gaps between expansion material and curb, walks, or objects protruding through sidewalk, shall be sealed with a sealer approved by the Street Superintendent.
- 1.8. **Curing:** After finishing operations are complete, the concrete surfaces shall be sprayed with curing compound. The surface of the concrete shall be kept thoroughly damp between the completion of the finishing operations, and the application of the curing compound. The curing compound shall be applied under pressure, by means of a spray nozzle, at a rate not to exceed 200 square feet per gallon. A minimum of 72 hours curing time shall be required. Should the Contractor elect to remove the forms before the minimum curing time has elapsed, he shall apply curing compound to the newly exposed vertical faces. Forms shall remain in place at least 24 hours after completion of the concrete placement.
- 1.9. **Testing:** Standard 6" X 12" test cylinders shall be used. Three cylinders will be made as per applicable A.S.T.M. specifications for each 24 cubic yards poured. One (1) will be broken in 7 days and the other two in 28 days. No extra compensation will be paid the Contractor for materials and labor involved in fulfilling these requirements. A City approved lab shall conduct all testing.



## **TOWN OF ADDISON SIDEWALK PROCEDURES AND SPECIFICATIONS**

- 1 Native subgrade shall be cut to a minimum depth of five inches. If any trenching or excavation occurred before placement of sidewalk, care shall be taken to compact all backfill in lifts (8" loose) to a minimum of 95% of Standard Proctor Density, at Optimum to plus three moisture content. Backfill shall be brought to within five inches of finished sidewalk grade. Unless shown otherwise on approved plans, the sidewalk is to be located adjacent to the back of curb. Grades shall anticipate the approach of barrier free ramps at intersections or drive approaches.
- 2 A fine washed sand, free of organic materials and clays, shall be placed in a 1" thick layer and compacted with a vibratory plate compactor for final grade adjustment, PRIOR TO the placement of the steel.
- 3 Concrete sidewalks shall be five (5) feet wide (or as approved) and a minimum of 4" thick. The walk shall be of one course construction of 3,600 psi concrete, six (6) sack mix, and reinforced with 3/8" steel reinforcing bars on eighteen (18) inch centers (4 bars) longitudinally and twenty-four (24) inch centers transversely (minimum.).
- 4 Sidewalks shall be poured in sections and in lengths manageable in allotted work time. They shall be tooled (1/4" radius) in five (5) foot sections (or equal to the width of the walk). One-half (1/2) inch expansion joint shall be placed every eight (8) joints, where new works abut old work, or where new work is constructed adjacent to other concrete work, walls, foundations, vaults, poles, or pedestals, The expansion joint shall be made of pre-molded bituminous filler or redwood, and shall extend the entire depth and width of the concrete section. Expansion joints shall be thickened according to standard drawing.
- 5 Finish walks by lightly brooming the surface transversely to direction of main traffic or, where adjacent sidewalks differ from this standard, new sidewalks shall conform to adjacent sidewalk, i.e., exposed aggregate. Cross-slope sidewalk one-fourth (1/4) inch per foot, (max.) or as shown on the drawings to provide drainage.
- 6 Approved barrier-free ramps shall be provide at street intersections and at all drive approaches as required by the Town of Addison. Ramps must comply with the requirements of ADA and/or TAS. Ramps shall contrast adjacent sidewalk both texturally and visually by grooving, and by coloring with an approved stain, or mixing color into concrete before or during placement.



**SPECIAL INSTRUCTIONS**  
**Sidewalk Repairs, Ramp, Curb & Gutter Construction**

**1.0 GENERAL**

- 1.01 The contractor shall furnish all labor and materials necessary for the complete construction of any repairs. Construction shall be in accordance with the latest edition of the NTCOG Standard Specifications for Public Works Construction, and/or as shown on approved plans.
- 1.02 All work within the public right-of-way shall also comply with all applicable sections of the Town of Addison Code of Ordinances, Chapter 70.
- 1.03 Scheduling of construction shall be under the direction of the Street Superintendent and will be permitted only between the hours of 7:00 a.m. - 7:00 p.m., Monday through Friday, or 8:00 a.m. - 7:00 p.m., Saturday and Sunday, when within 300 feet of a residence. All lane blockages shall be approved by the Street Superintendent. See Sec. 70-113.
- 1.04 Where Sprinkler systems have previously been installed, the Contractor shall relocate, at his own expense, the entire portion of that system in conflict with sidewalk construction. This relocation shall be completed by a licensed irrigator, registered with, and approved by, the Town of Addison. No part of this system shall remain beneath the new sidewalk, with the possible exception of the water meter. Special attention shall be given to the replacement of the proper sprinkler heads in order to ensure adequate coverage. All sprinkler system relocation shall be completed within five (5) days, beginning at the time of shut off. Contractor shall be responsible for hand watering all landscape materials during this time, and take any action necessary, as determined by the Street Superintendent, or the Parks Department Superintendent, to ensure the integrity of all landscaping. Any landscape material within the right-of-way requiring relocation due to the construction, shall be moved by the Contractor at his expense. Live sod, matching the predominate grasses (St. Augustine, Bermuda, etc.), shall be applied as necessary, leaving the construction area in the condition as near as possible to that existing before such construction began.
- 1.05 The contractor shall submit a copy of the concrete batch design for approval, prior to construction.
- 1.06 Contractor shall adjust all water meter boxes, valve stacks, clean outs, etc. to finished grade as directed.
- 1.07 The Addison Street Department shall remove/relocate all street name and/or regulatory signs after being given 24 hour notice by contractor.
- 1.08 Where power poles, fire hydrants, and similar obstructions exist, contractor shall widen sidewalk around obstruction to provide a minimum three foot wide clear walk, or as required to comply with the ADA and/or TAS.

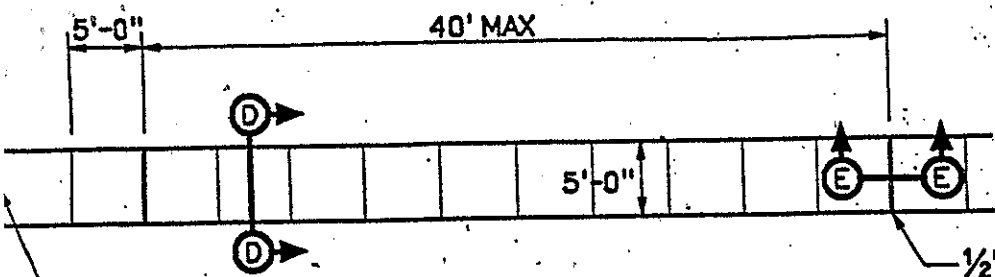


- 1.09 Approved barrier free ramps (handicap roll-down curbs) will be provided at street intersections and at all drive approaches as directed by the Street Superintendent. Ramps shall contrast adjacent sidewalk both texturally and visually by grooving and coloring the ramp either with an approved stain or by mixing color into the concrete before or during placement.
- 1.10 All fire hydrant break away flanges and bolts will be above the concrete surface. It shall be Contractors responsibility to furnish all parts and labor necessary to raise all fire hydrant break away flanges that will not be above the finished concrete surface of the sidewalk.
- 1.11 All communication with property owners or tenants shall be the responsibility of the Street Superintendent.
- 1.12 The Town of Addison reserves the right to sequence locations of work as necessary.
- 1.13 Contractor shall employ a qualified project manager, fluent in the English language, who will be responsible for directing all work crews. Project Manager shall remain on the job at all times, in order to supervise the work of all sub-contractors, as well as the Contractor's own work crews.
- 1.14 The contractor shall so conduct his operation as to offer the least possible obstruction and inconvenience to public traffic. The contractor shall provide, construct, and maintain suitable barricades, signage, and/or directions as directed by the Street Superintendent. at points along the project as may be necessary to protect the work and safeguard all traffic, both vehicle and pedestrian. All signs, barricades, and working area layouts shall be maintained in accordance with the Texas Manual on Uniform Traffic Control Devices, Part VI, the Town of Addison Code of Ordinances, and other applicable standards. Alternate temporary walkways shall be provided as directed by the Street Superintendent.
- 1.15 All work shall be guaranteed against defects resulting from the use of inferior materials, equipment or workmanship for a period of two years from the date of final completion and acceptance of the project. Contractor will make all necessary repairs as required for a period of two years, at no additional cost to the city.







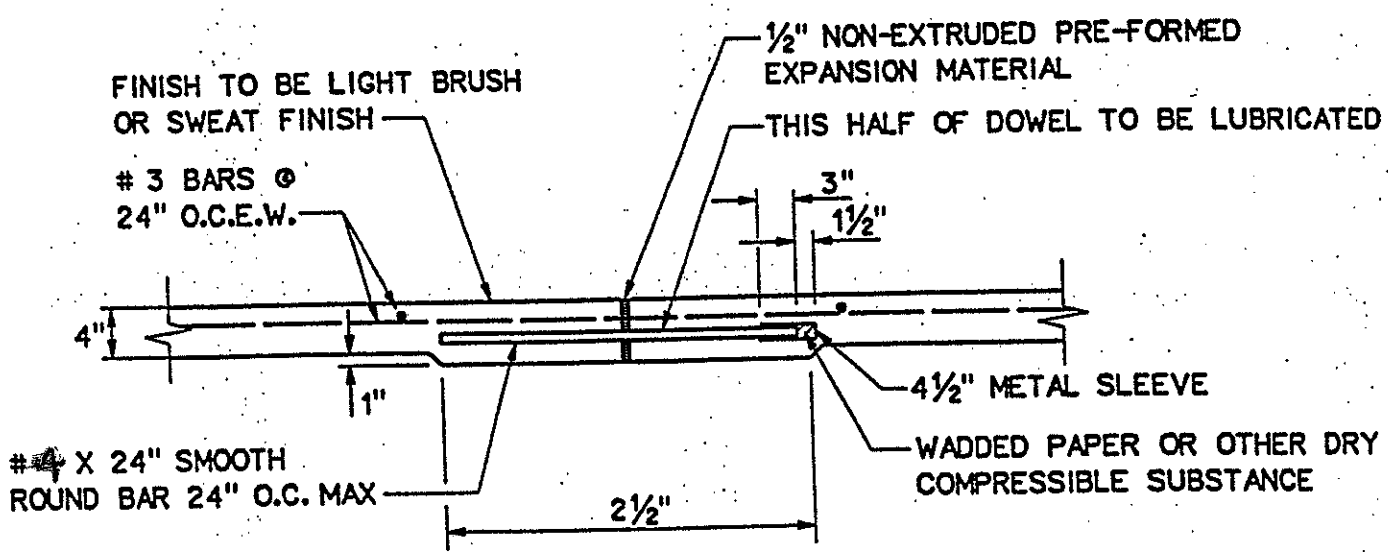


SIDEWALK MARKINGS SHALL BE GROOVED  $\frac{3}{8}$ " DEEP ON 5' CENTERS FOR 5' WIDE WALK, AND LINE UP WITH STREET JOINTS WHERE APPLICABLE.

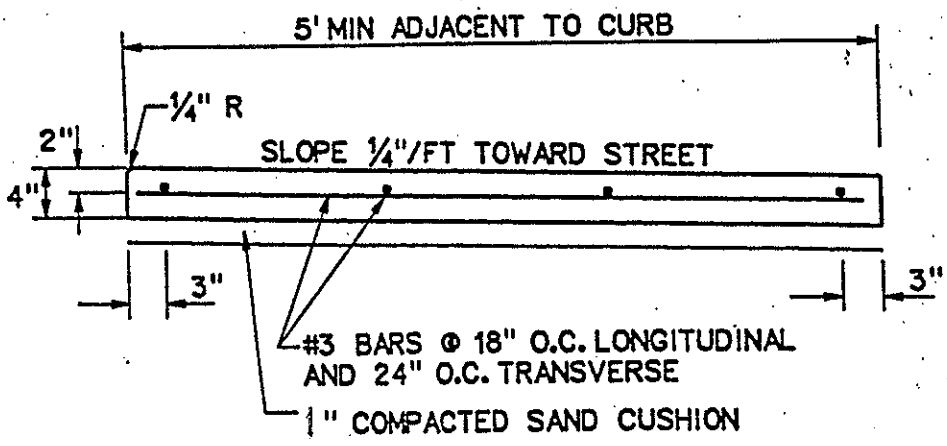
$\frac{1}{2}$ " EXPANSION JOINTS SHALL BE SPACED AT MAX. 40' INTERVALS AND LINE UP WITH STREET EXPANSION JOINTS OR AS OTHERWISE SPECIFIED AND JOINTS SHALL BE FILLED WITH PRE MOLDED BITUMINOUS EXPANSION JOINT FILLER.

NOTE:  
 CONCRETE TO HAVE MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS AND MINIMUM CEMENT CONTENT OF 5 SACKS PER CUBIC YARD OF CONCRETE.

**REINFORCED CONCRETE SIDEWALK - PLAN VIEW**  
 NOT TO SCALE

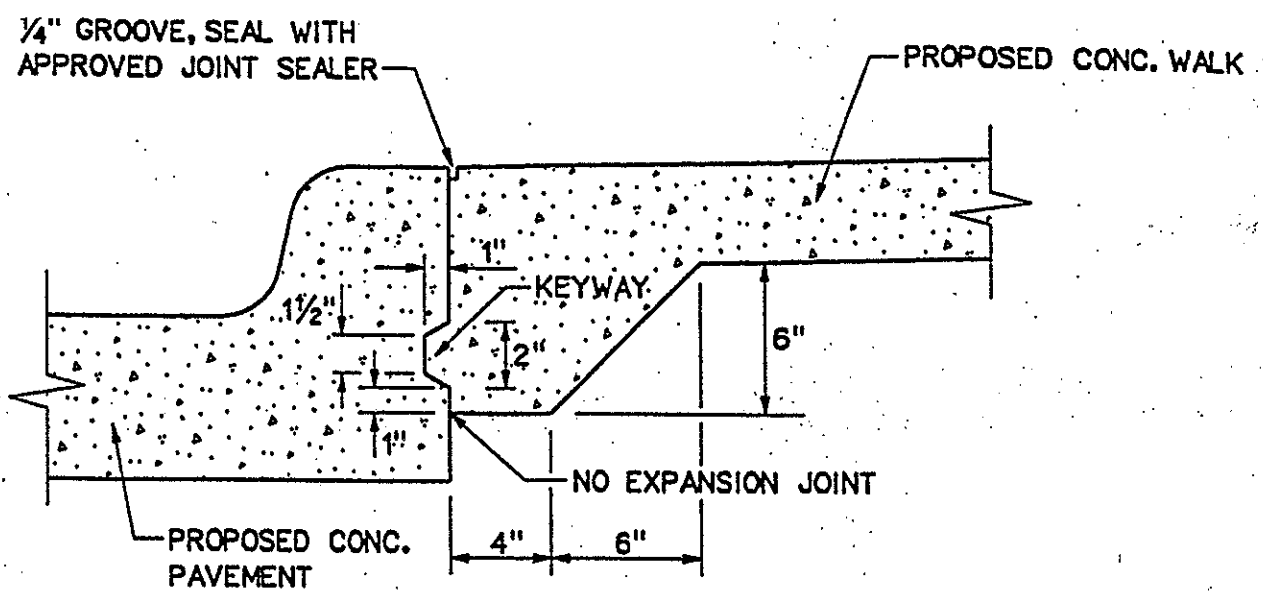


**SECTION E-E**  
**EXPANSION JOINT DETAIL**  
 NOT TO SCALE



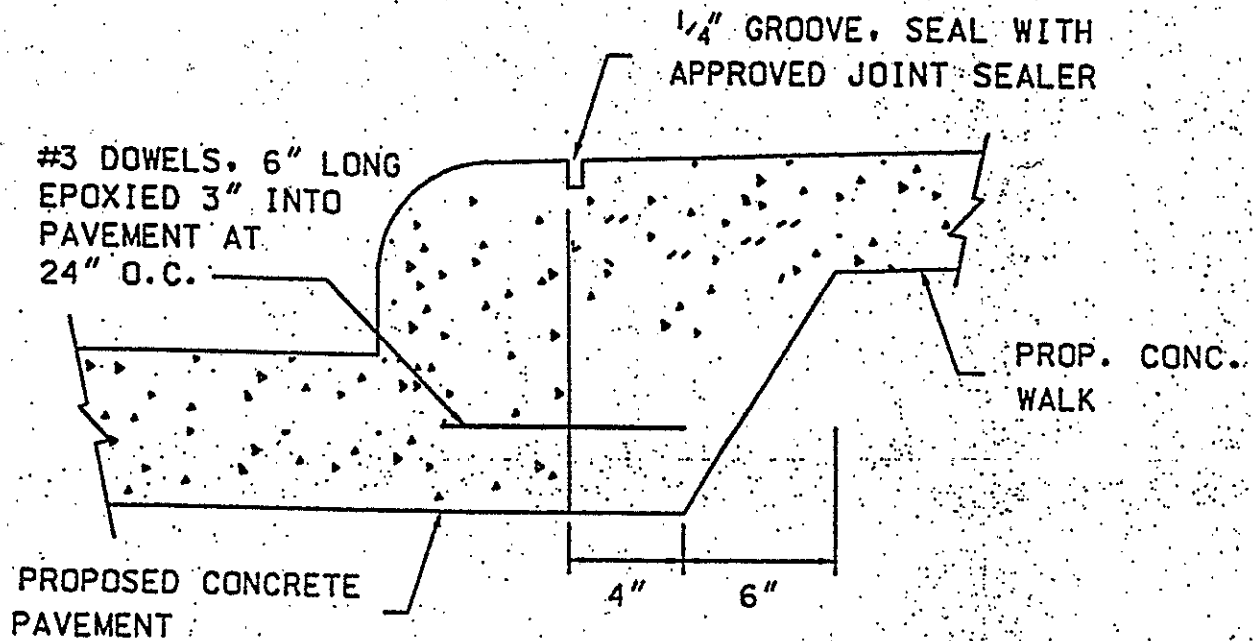
**SECTION D-D**  
**TYPICAL SECTION**





**JOINT DETAIL FOR SIDEWALK  
ADJACENT TO PROPOSED PAVEMENT**

NOT TO SCALE



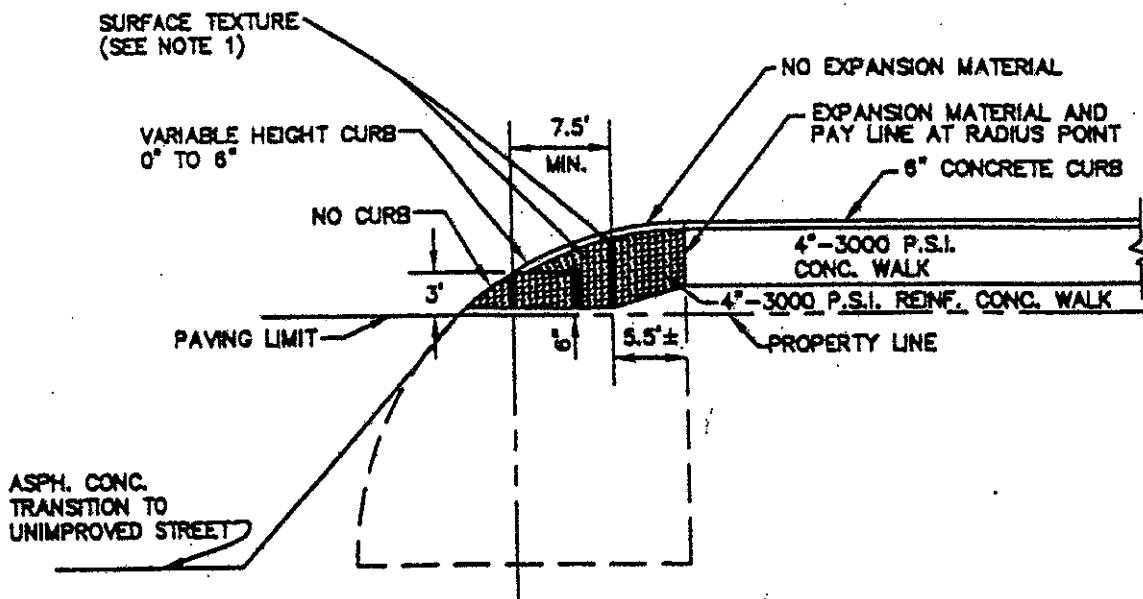
**ALTERNATE JOINT DETAIL FOR SIDEWALK**

NOT TO SCALE

**SIDEWALK NOTES :**

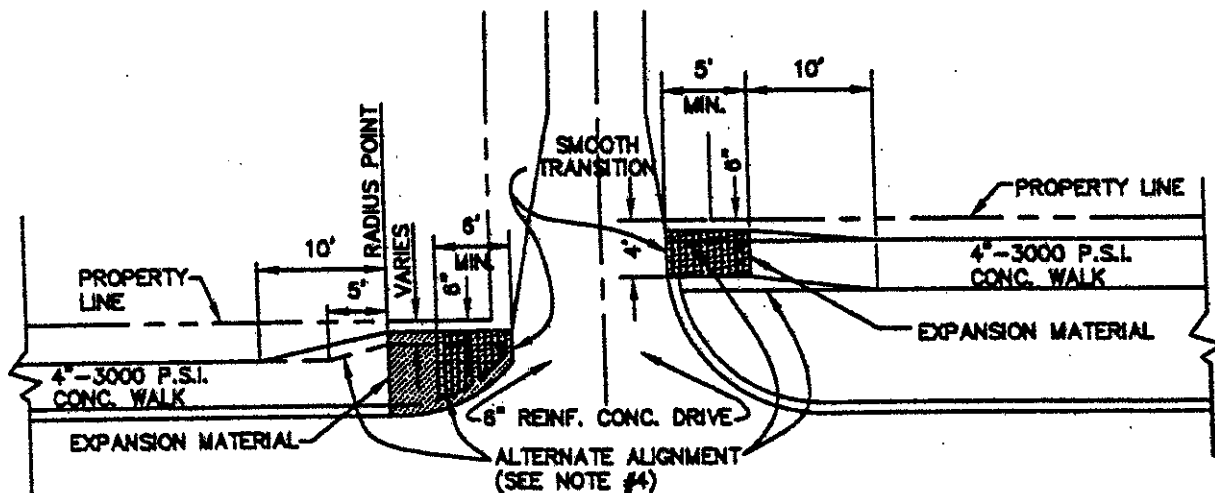
1. THE CONTRACTOR SHALL PROVIDE TOOLED JOINTS USING A JOINTING TOOL APPROVED BY THE ENGINEER.





### BARRIER FREE RAMP AT INTERSECTION WITH RESTRICTED RIGHT-OF-WAY

(WALK ABUTTING CURB)  
SCALE: 3/32" = 1'-0"



### BARRIER FREE RAMPS AT ALLEYS

SCALE: 3/32" = 1'-0"

#### NOTES:

1. HANDICAP RAMPS SHALL INCLUDE GROOVES 1/4"-3/4" WIDE AT 3/4"-2" SPACING AT A MAX. DEPTH OF 3/8". RAMPS SHALL BE STAINED/DYED RED.
2. MAXIMUM SLOPE ON BARRIER FREE RAMPS MUST NOT EXCEED 1" PER FOOT IN ANY DIRECTION.
3. DESIGNS SHOWN ARE FOR 6" CURBS. FOR CURBS WITH HEIGHT GREATER THAN 6", DIMENSIONS MUST BE INCREASED PROPORTIONATELY.
4. STREETS ON STEEP GRADE WILL REQUIRE LONGER TRANSITION ON UPGRADE SIDE.
5. LOCATION OF BARRIER FREE RAMP MAY BE SHIFTED TO CLEAR OBSTRUCTIONS.
6. GRADE OF ANY INTERSECTING DRIVE FROM GUTTER LINE OF STREET TO PROPERTY LINE SHALL NOT EXCEED 8%.
7. SIDEWALKS CROSSING STEEP DRIVEWAYS MUST HAVE 2% CROSS-SLOPE BREAK IN DRIVE.