## SITEWORK PLANS FOR

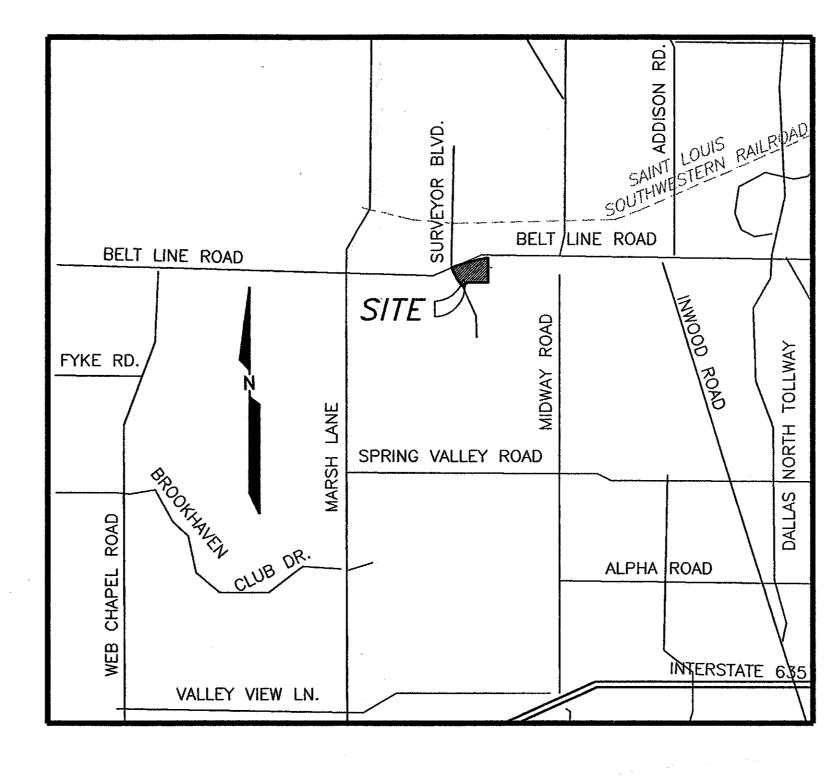
# 

# S.E.C. OF BELTLINE ROAD & SURVEYOR ROAD ADDISON, TEXAS

OWNER:
SOUTHTRUST BANK
5430 LBJ FREEWAY, STE. 1260
DALLAS, TEXAS 75240
CONTACT: STEVE FREEMAN
(972) 246-1515
FAX: (972) 490-1667

PROJECT ARCHITECT:
TGS ARCHITECTURE
5323 SPRING VALLEY ROAD, SUITE 200
DALLAS, TEXAS 75254
CONTACT: STEVE CAMPBELL
(972) 788-1945
FAX: (972) 788-2309

CIVIL ENGINEER:
LAWRENCE A. CATES & ASSOCIATES, LLP
14200 MIDWAY ROAD, SUITE 122
DALLAS, TEXAS 75244
CONTACT: BRYAN M. BURGER, P.E.
(972) 385-2272
FAX: (972) 980-1627

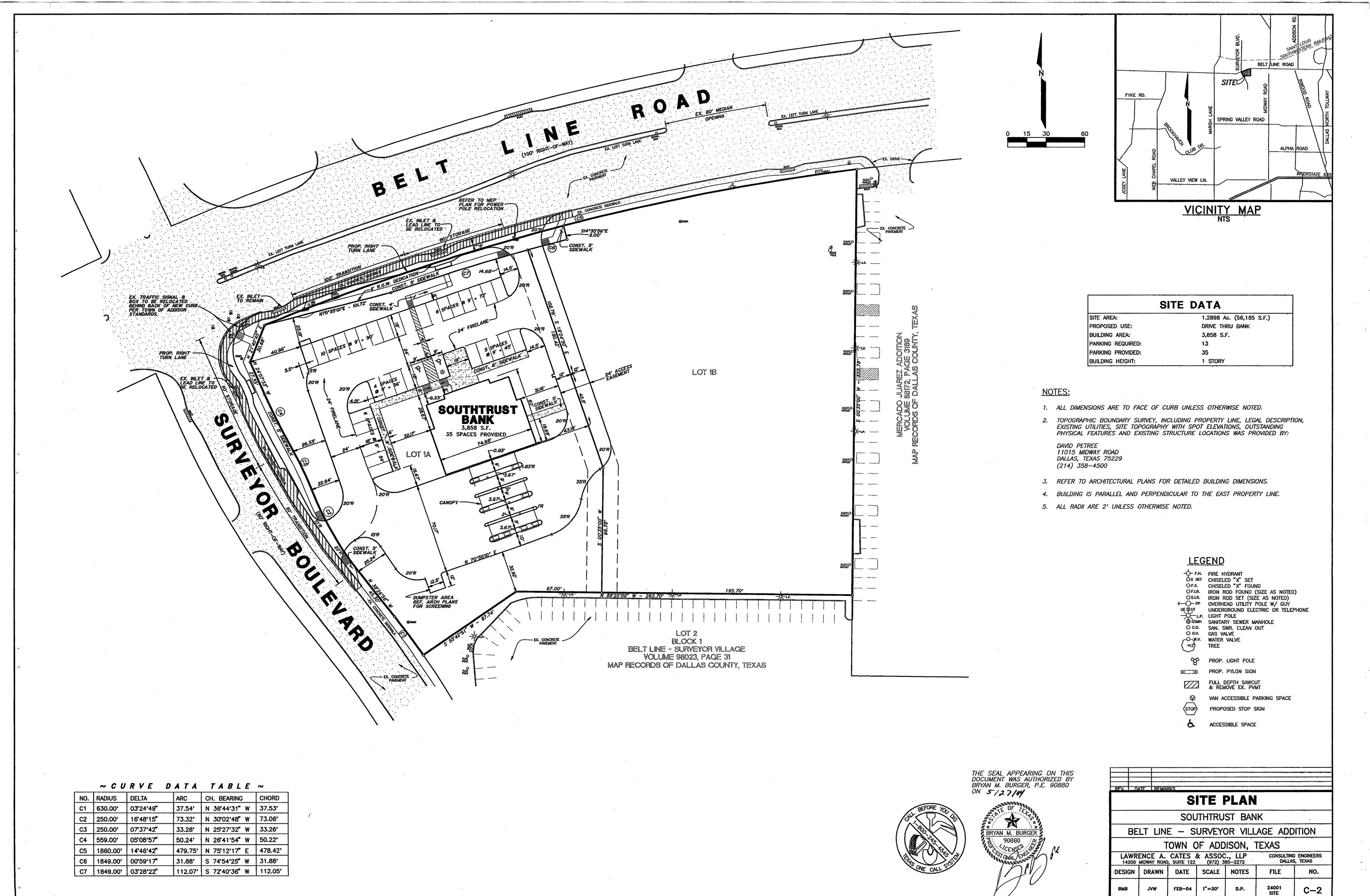


VICINITY MAP

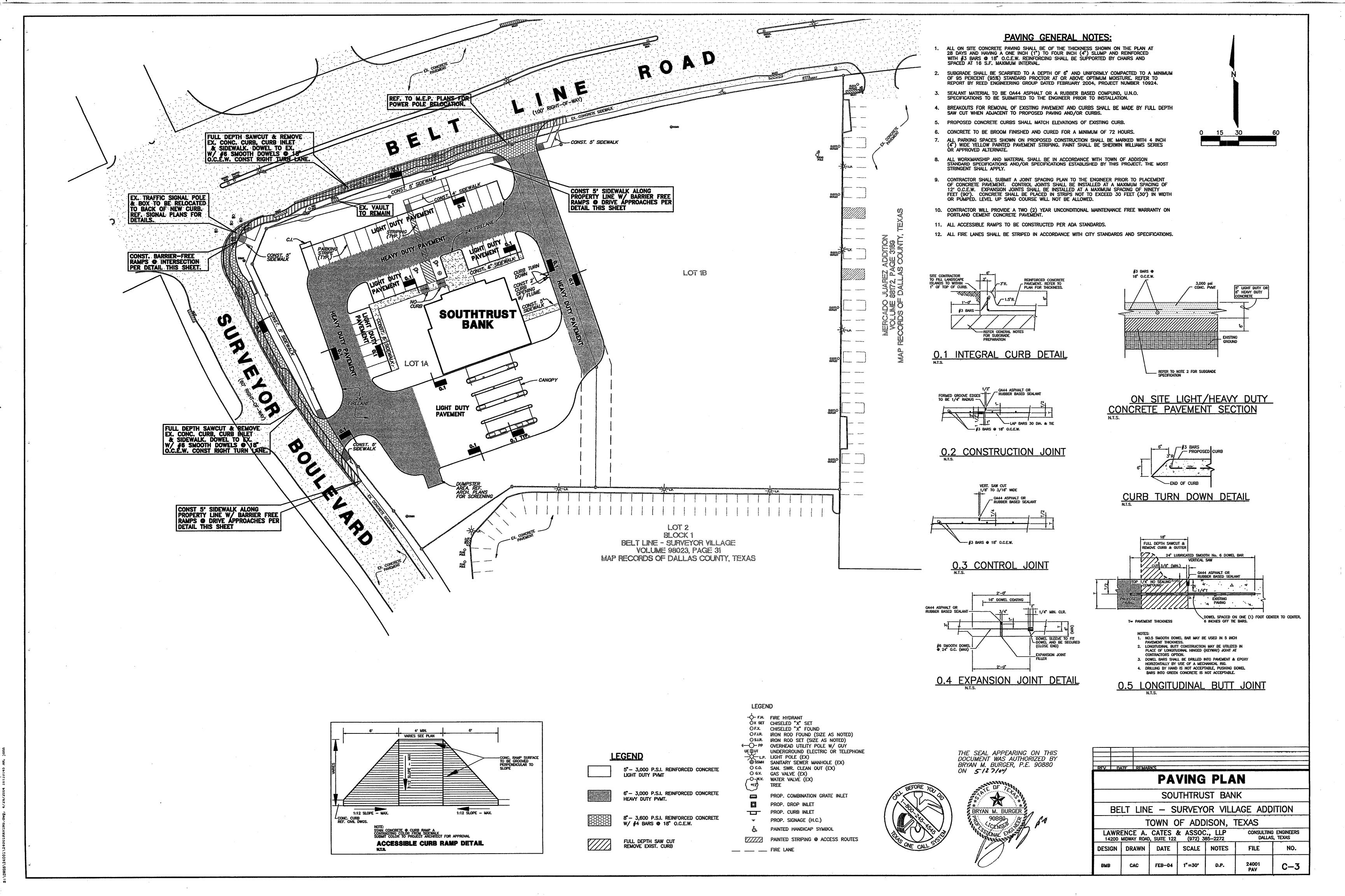
## SHEET INDEX

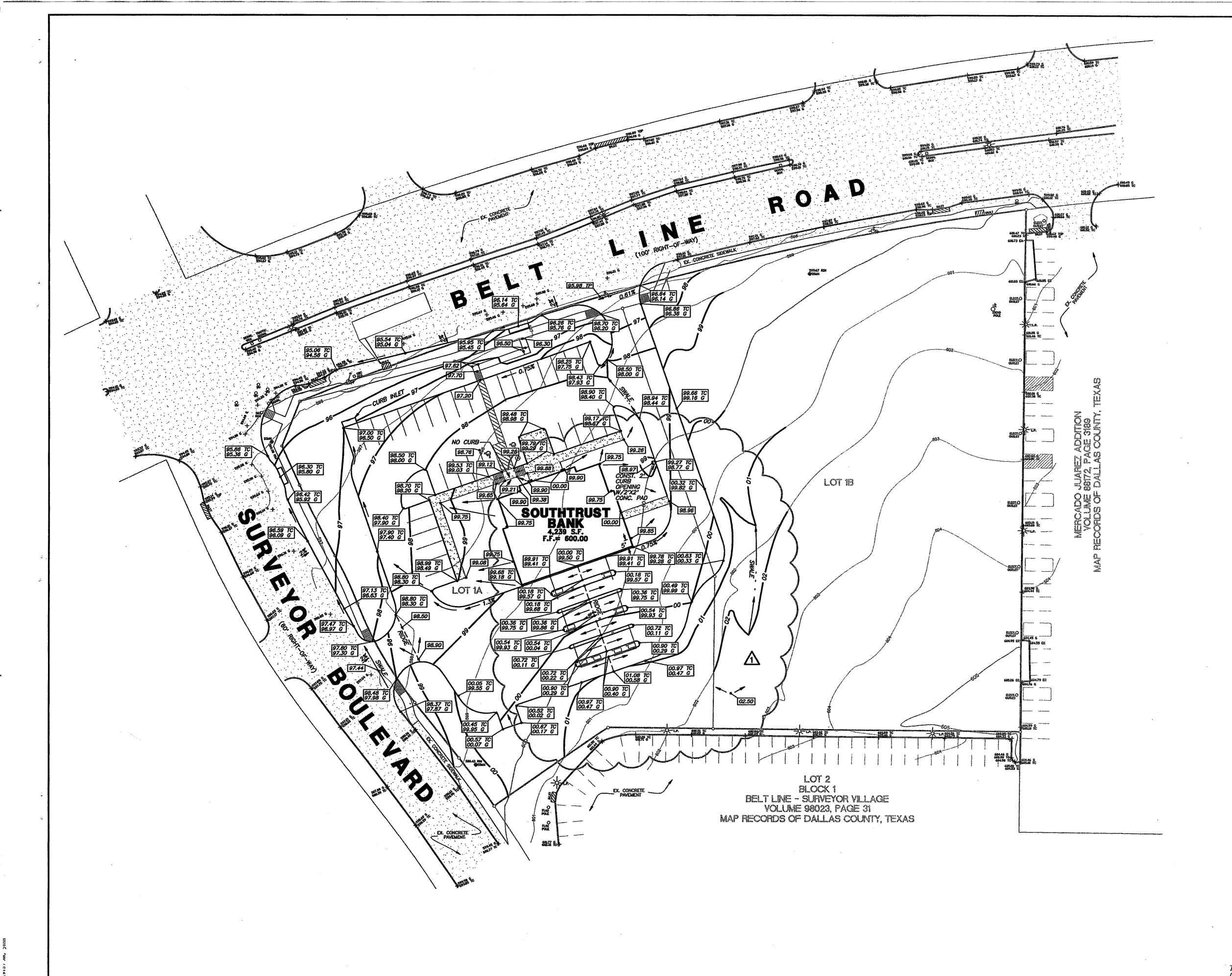
PLAT
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WATER & SANITARY SEWER PLAN
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STANDARD DETAILS
LANDSCAPE PLAN
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IRRIGATION PLAN
IRRIGATION SPECIFICATIONS AND DETAILS
TRAFFIC SIGNAL PLAN
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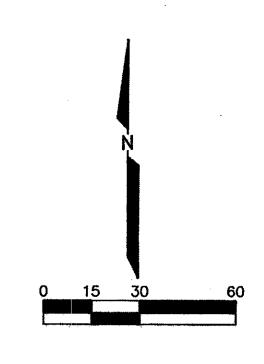
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#### GRADING GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND CITY STANDARDS AND SPECIFICATIONS.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED, NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECIEVED & THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS AND WAIT FOR DIRECTIONS BEFORE PROCEEDING OR CONTINUING WORK.
- 4. THE CONTRACTOR SHALL NOT IN ANY WAY DAMAGE EXISTING PAVEMENT, UTILITIES, DRAINAGE OR ANY OTHER FACILITIES IN THE COURSE OF THE HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO PRIVATE PROPERTY
- 5. THE CONTRACTOR SHALL VERIFY THE STABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. MINOR ADJUSTMENT TO FINISH GRADE TO ACCOMPLISH SPOT DRAINAGE IS ACCEPTABLE, IF NECESSARY, UPON PRIOR APPROVAL OF THE ENGINEER. PAVING INSTALLED SHALL "FLUSH OUT" AT ANY JUNCTURE WITH EXISTING PAVEMENT.
- 6. ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN THE EVENT OF ANY DISCREPANCIES.
- 7. REFER TO EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING GRADING OPERATIONS.
- 8. SITE PREPARATION, GRADING AND FILL COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL EXPLORATION PREPARED FOR THIS PROJECT.

LEGEND

OF.H. FIRE HYDRANT
OX SET CHISELED "X" SET
OF.K. CHISELED "X" FOUND
OF.I.R. IRON ROD FOUND (SIZE AS NOTED)
OS.I.R. IRON ROD SET (SIZE AS NOTED)
OVERHEAD UTILITY POLE W/ GUY
UNDERGROUND ELECTRIC OR TELEPHONE
U.P. LIGHT POLE
OS.M. SANITARY SEWER MANHOLE
O.C.O. SAN. SWR. CLEAN OUT
O.G.V. GAS VALVE
O.W.V. WATER VALVE
12)
TREE

PROPOSED CONTOU

OOO TP PROP. TOP OF PAVEMENT ELEVATION

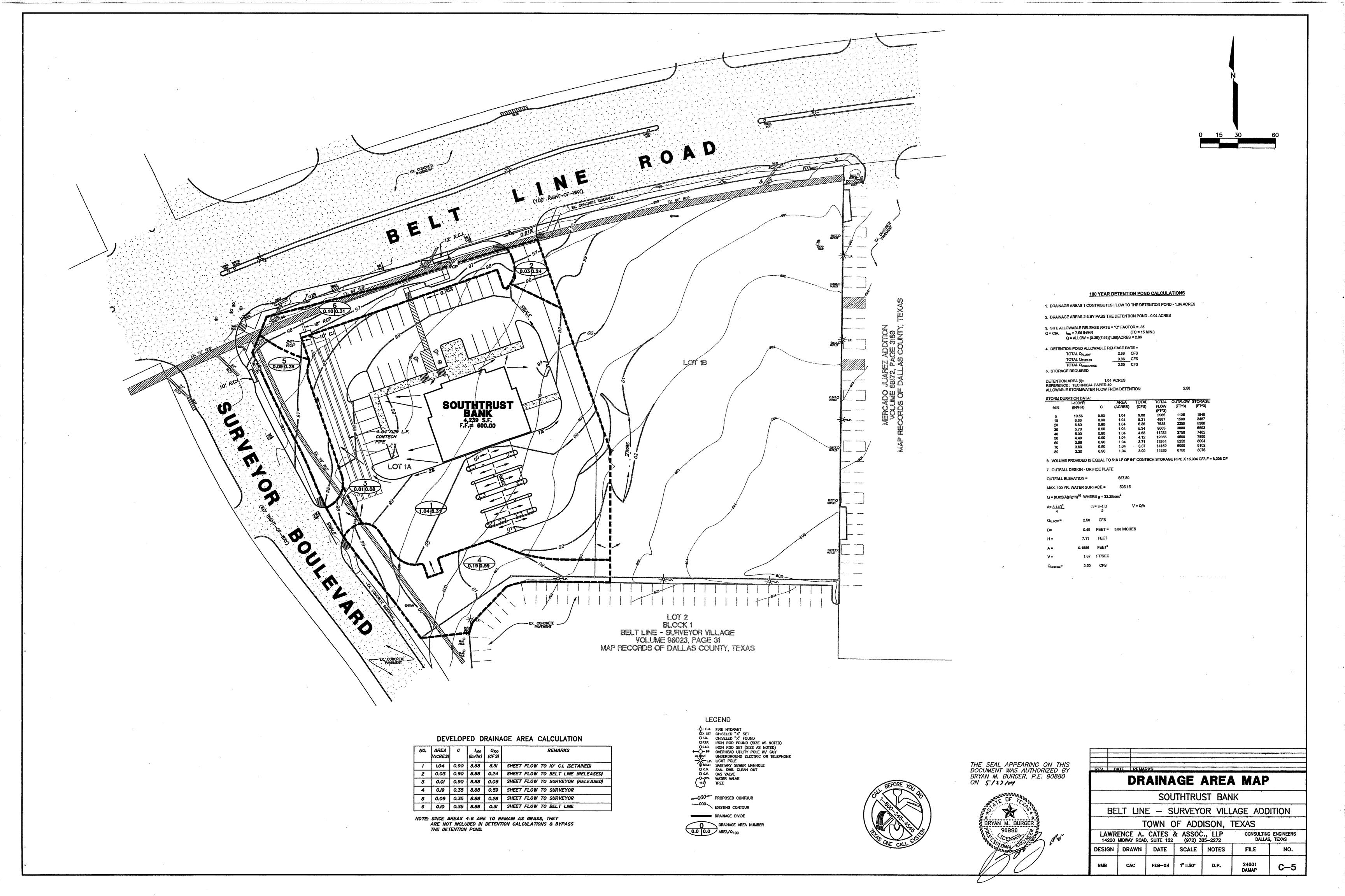
00.00 TC PROP. TOP OF CURB ELEVATION 00.00 G PROP. GUTTER ELEVATION

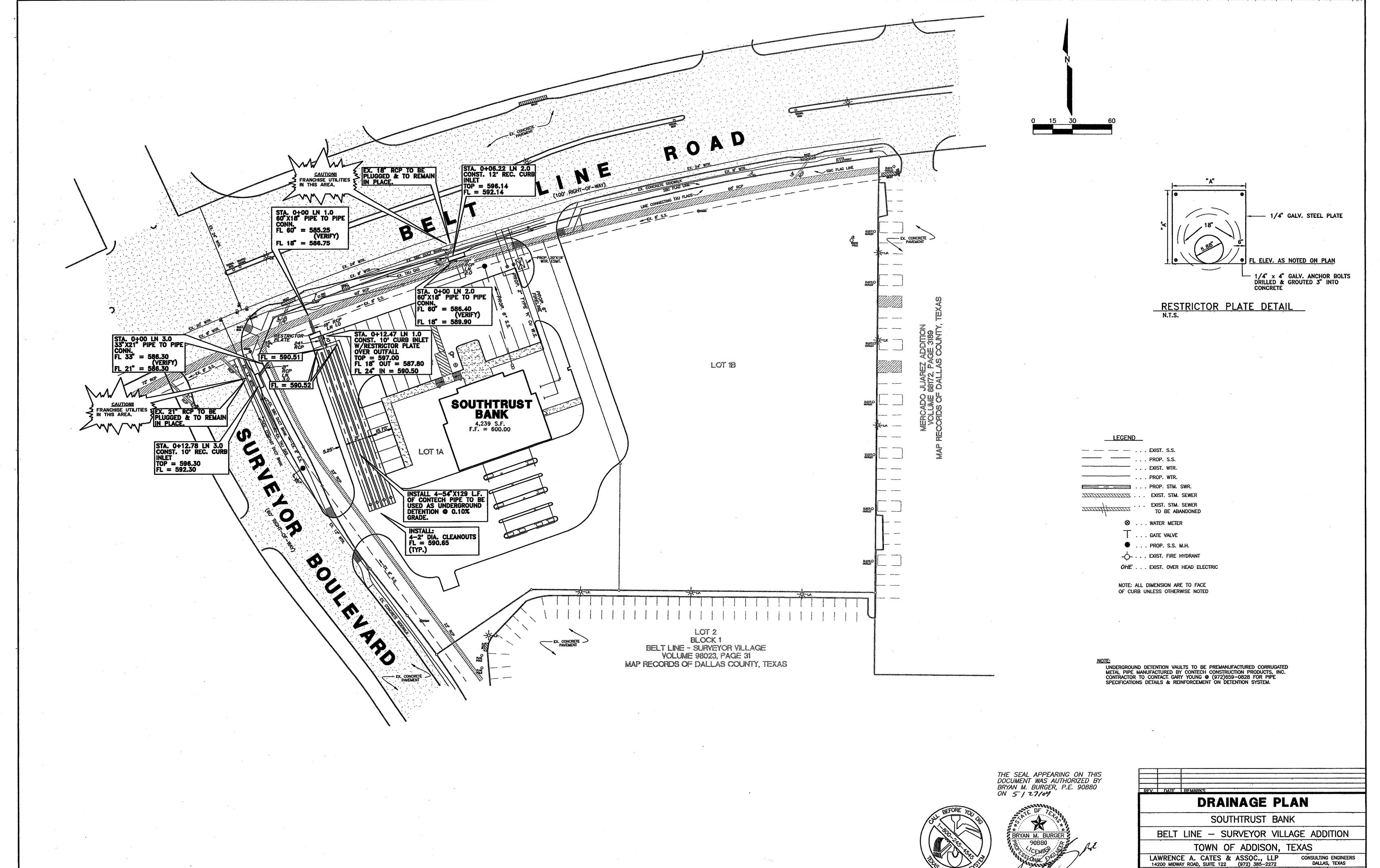


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRYAN M. BURGER, P.E. 90880 ON 6/23/69



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GRADING PLAN								
SOUTHTRUST BANK								
BE	LT LIN	E - S	URVEY	OR VILL	AGE ADD	ITION		
•		OWN C	F ADD	ISON,	TEXAS	,		
LAWRENCE A. CATES & ASSOC., LLP CONSULTING ENGINEERS 14200 MIDWAY ROAD, SUITE 122 (972) 385-2272 DALLAS, TEXAS								
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SCALE

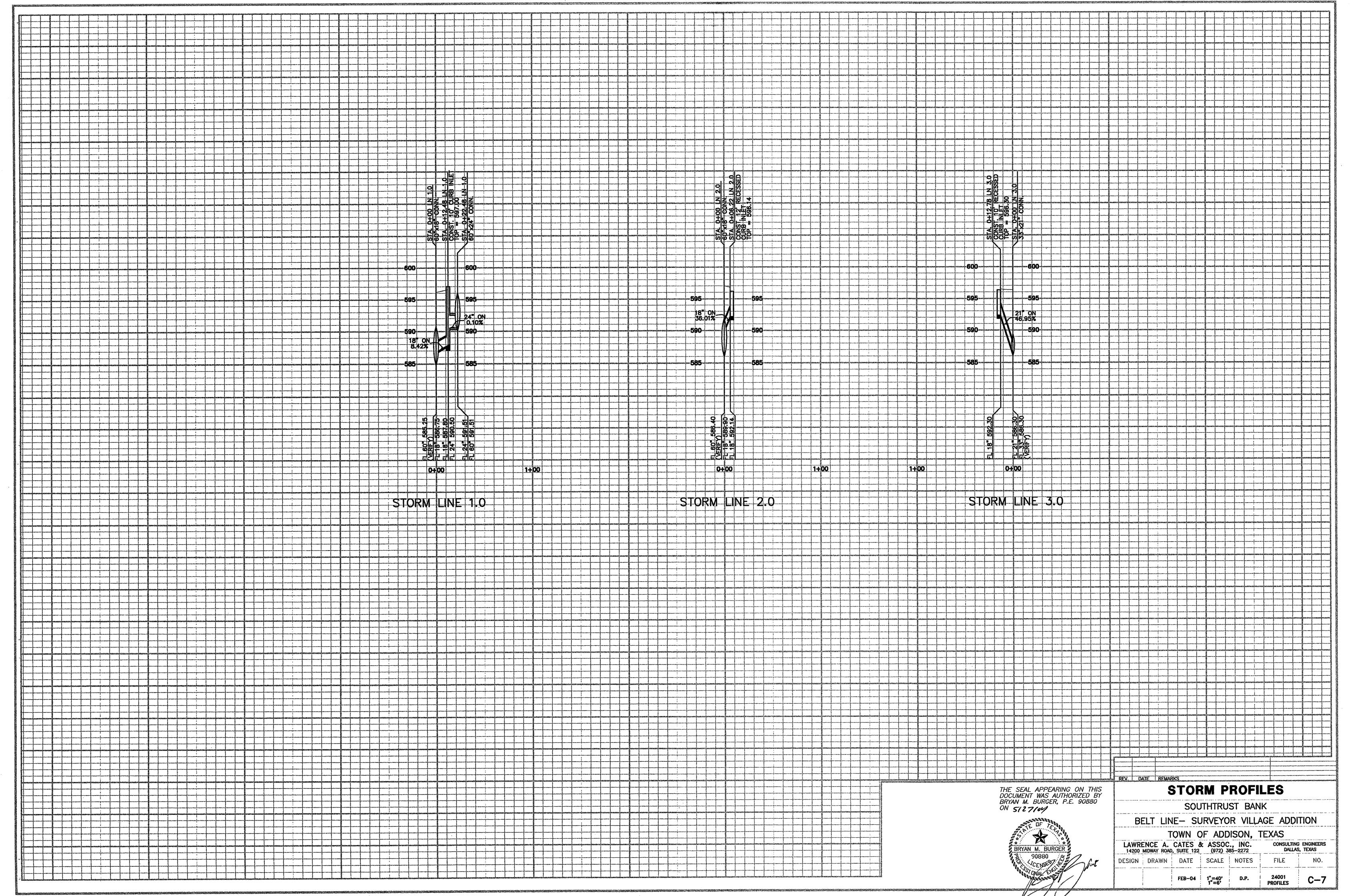
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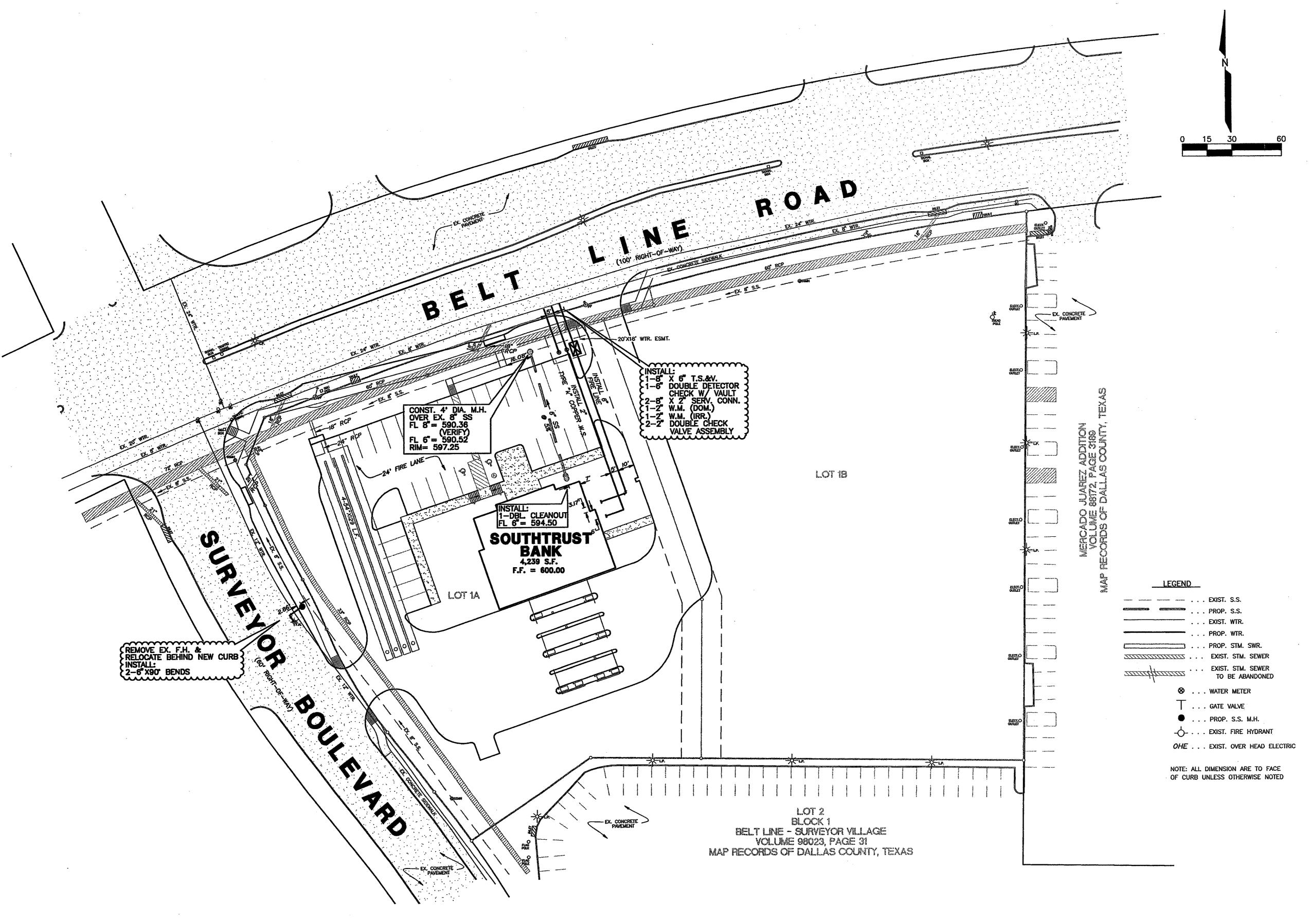
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24001 DRAINAGE

DESIGN DRAWN

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#### WATER LINE GENERAL NOTES

- I. ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR THE CITY.
- 2. ALTERNATE ALL 6", 8", 10" AND 12" WATER MAINS SHALL BE PVC AWWA C900, DR 14, CLASS 200 WATER PIPE. FOR PVC SERVICE TAPS I" AND LARGER, TAPPING SADDLES SHALL BE USED. FIRE LINES SHALL BE C909, CLASS 200 MINIMUM.
- 3. ALL WATER MAINS SHALL HAVE MINIMUM COVER AS FOLLOWS: 6", 8", 10", AND 12": 48" BELOW FINISHED PAVEMENT GRADE, OR 60" BELOW EXISTING OR FINISHED GRADE IN UNPAVED AREAS, OR AS REQUIRED TO CLEAR OTHER UTILITIES.
- 4. FIRE HYDRANTS TO BE CITY APPROVED. APPROVED FIRE HYDRANTS ARE: M&H, MULLER, & AVK.
- 5. VALVES TO BE CITY APPROVED.
- 6. THE WATER METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE PAVEMENT OR CURB, WITH A BLUE DOT BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."
- 7. THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE CITY TO RUN TWO (2) YEARS FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE CITY.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWING" PLANS TO THE ENGINEER & TOWN OF ADDISON SHOWING THE LOCATION OF WATER SERVICES AND VALVES.
- 9. FIRE HYDRANTS SHALL BE PAINTED AS PER CITY STANDARDS AND SPECIFICATIONS AND LOCATED IN A PROTECTED AREA WITH 6" CURB OR BOLLARDS.
- 10. STEAMER NOZZLES ON FIRE HYDRANTS SHALL BE 18" ABOVE THE TOP OF THE CURB ON FINISHED GRADE, AND SHALL FACE THE CENTER OF THE FIRE LANE OR STREET. FIRE HYDRANTS SHALL USUALLY BE LOCATED FOUR (4) FEET, BUT NOT LESS THAN TWO (2) FEET NOR MORE THAN SIX (6) FEET, BEHIND THE CURB.
- II. ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED PER CITY STANDARDS AND SPECIFICATIONS.
- 12. ALL WATER LINES SHALL BE STERILIZED PER CITY STANDARDS AND SPECIFICATIONS.
- 13. ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS.
- 14. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT NECESSARY CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO THE CONSTRUCTION OF ANY SUCH CROSSING.
- 15. UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL PER TOWN OF ADDISON SPECIFICATIONS.
- 16. ANCHOR FITTINGS SHALL BE USED TO ATTACH FIRE HYDRANTS.
- 17. ALL WATER SERVICES OUTSIDE OF EASEMENTS SHALL BE INSTALLED BY A PLUMBER.
- 18. CONTRACTOR TO INCLUDE ALL CITY REQUIRED MAINTENANCE BOND, INSPECTION, TAP. AND METER FEES IN BID. OWNER TO PAY IMPACT FEES.
- 19. NO WATER JETTING OF BACKFILL ALLOWED.
- 20. MEGA LUGS SHALL BE USED ON ALL BENDS, TEES, AND CHANGES IN DIRECTION.
- 21. FIRE LINES TO BE SIZED AND INSTALLED BY STATE OF TEXAS LICENSED FIRE SPRINKLER CONTRACTOR.

#### I. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO N.C.T.C.O.G.

2. THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING.

& THE TOWN OF ADDISON STANDARD SPECIFICATIONS.

FROM THESE PLANS.

- 3. CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER OR HIS REPRESENTATIVE AND CITY REPRESENTATIVE REGARDING ANY DEVIATIONS
- 4. CONTRACTOR SHALL MAINTAIN ONE SET OF RECORD DRAWINGS (AS BUILT) ON SITE WHICH WILL BE SUBMITTED TO THE ENGINEER & TOWN OF ADDISON UPON COMPLETION OF THIS PROJECT.

### SANITARY SEWER GENERAL NOTES

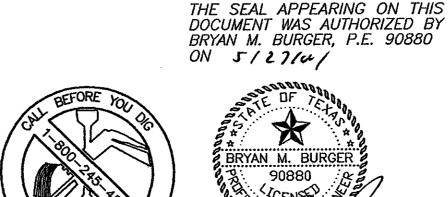
- 5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT; ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, SEWER LATERALS, WATER SERVICE, ETC.
- 6. THE CONTRACTOR SHALL SET UTILITIES TO PROPER LINE AND GRADE PRIOR TO THE PLACING OF PERMANENT PAVEMENT.
- 7. SANITARY SEWER PIPE SHALL CONFORM TO CITY SPECIFICATIONS AND SHALL BE MANUFACTURED FROM ONE OF THE FOLLOWING MATERIALS: a. Polyvinyl/Chloride (PVC)
- 8. SANITARY SEWER PIPE MUST BE KEPT CLEAR OF BROKEN CONCRETE, DIRT OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.

4" - 15"

9. ALL SANITARY SEWER MAINS ARE TO HAVE 1-21' JOINT CENTERED ON EITHER SIDE OF WATER MAINS WHERE CROSSING OCCUR.

ASTM D 3034 SDR 35

- 10. CONTRACTOR SHALL TIE A I" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
- II. THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE CITY TO RUN TWO (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE SYSTEM BY THE CITY.
- 12. ALL SANITARY SEWER LATERALS SHALL BE SIZED AND LOCATED AS SHOWN.
- 13. ALL SANITARY SEWER LATERALS LOCATED OUTSIDE OF ESMTS SHALL BE INSTALLED BY A PLUMBER.
- 14. CONTRACTOR TO INCLUDE ALL REQD. BONDS, TAP FEES, CAMERA FEES IN PROPOSAL.
- 15. ALL PROPOSED MANHOLES SHALL BE VACUUM TESTED.





**WATER & SANITARY SEWER PLAN** SOUTHTRUST BANK

BELT LINE - SURVEYOR VILLAGE ADDITION

TOWN OF ADDISON, TEXAS LAWRENCE A. CATES & ASSOC., LLP

14200 MIDWAY ROAD, SUITE 122 (972) 385-2272 SCALE | NOTES FILE NO. DATE DESIGN DRAWN 1"=30' FEB-04 WATSEW

Ox SET CHISELED "X" SET
OFX. CHISELED "X" FOUND OF.LR. IRON ROD FOUND (SIZE AS NOTED) OSLE IRON ROD SET (SIZE AS NOTED) ---O-PP OVERHEAD UTILITY POLE W/ GUY

LEGEND

UNDERGROUND ELECTRIC OR TELEPHONE UNDERGRUUND ELECTRIC ON LP. LIGHT POLE

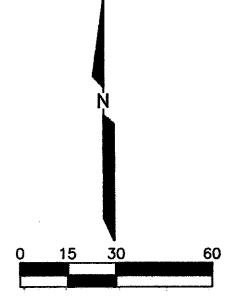
SSMH SANITARY SEWER MANHOLE

O C.O. SAN. SWR. CLEAN OUT

O G.V. GAS VALVE

O W.V. WATER VALVE

12 TREE

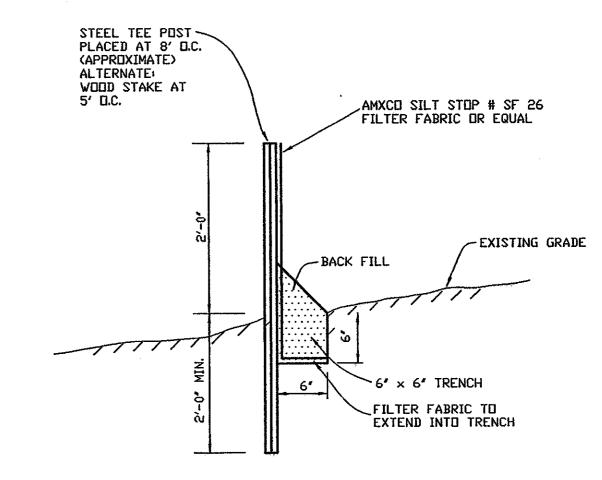


#### EROSION CONTROL GENERAL NOTES

- 1. GENERAL CONTRACTOR AND OWNER ARE RESPONSIBLE FOR PREVENTING THE FLOW OR OFF-SITE TRACKING OF SEDIMENT AND OTHER POLLUTANTS TO EXISTING STREETS AND ADJACENT PROPERTIES.
- 2. ALL POINTS USED AS AN EXIT FROM AREAS OF EXPOSED SOIL MUST HAVE A ROCK STABILIZED CONSTRUCTION ENTRY/EXIT FIFTY FEET (30') IN LENGTH WITH THREE INCH (3") DIAMETER STONE COVER GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS POINTS AND PREVENTING EXIT AT UNPROTECTED LOCATIONS.
- 3. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.
- 4. PERIMETER EROSION CONTROL MEASURES AND THE ROCK STABILIZED CONSTRUCTION EXIT MUST BE IN PLACED BEFORE STARTING SOIL DISTURBANCE.
- 5. DISTURBED SOIL MUST BE STABILIZED WITHIN 14 DAYS IN AREAS WHERE GRADING IS TEMPORARILY OR PERMANENTLY STOPPED FOR MORE THAN 21 DAYS.
- 6. ALL SURFACE AREAS DISTURBED WITHIN OR ADJACENT TO THE CONSTRUCTION LIMITS MUST BE PERMANENTLY STABILIZED. STABILIZATION IS OBTAINED WHEN THE SITE IS COVERED WITH IMPERVIOUS STRUCTURES, PAVING OR A UNIFORM PERENNIAL VEGETATIVE COVER. THE PERENNIAL VEGETATION MUST HAVE A COVERAGE DENSITY OF AT LEAST 70 PERCENT. STABILIZATION IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
- 7. THE GENERAL CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURERS AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS AFTER A STORM EVENT OF 0.5 INCH OR GREATER TO MAINTAIN FUNCTION OF THE CONTROLS. MAINTENANCE IS CRUCIAL TO EROSION CONTROL EFFECTIVENESS. EROSION CONTROL MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR
- 8. FOR DETAILS OF STABILIZATION AND EROSION CONTROL MEASURES, REFER TO THE CONSTRUCTION BEST MANAGEMENT PRACTICES (BMP) MANUAL PUBLISHED BY NORTH CENTRAL TEXAS COUNCIL OF

#### CONSTRUCTION SEQUENCE

- 1. OBTAIN GRADING PERMIT. 2. INSTALL ALL EROSION CONTROL MEASURES AND DEVICES THAT CAN BE
- INSTALLED PRIOR TO SITE CLEARING.
- CLEAR SITE.
- 4. INSTALL ANY REMAINING CONTROL MEASURES AND DEVICES THAT COULD NOT BE INSTALLED PRIOR TO SITE CLEARING.
- GRADE SITE. 6. INSTALL ALL UNDERGROUND UTILITIES. INSTALL EROSION CONTROL AROUND
- CATCH BASINS AND INLETS.
- INSTALL PAVEMENT.
- 8. INSPECT AND MAINTAIN ALL EROSION MEASURES UNTIL ALL DISTURBED OFFSITE & ONSITE AREAS HAVE BEEN HYDROMULCHED OR SODDED (IN ACCORDANCE WITH THE LANSCAPE PLAN) AND A MOWABLE STAND OF GRASS IS ACHIEVED.



EROSION CONTROL FENCE



CONTRACTOR SHALL MAINTAIN SILT FENCE THROUGHOUT DURATION OF PROJECT.

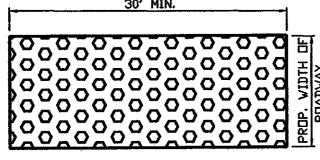
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A STABILIZED CONSTRUCTION ACCESS ENTRANCE APPLIES TO POINTS OF CONSTRUCTION INGRESS AND EGRESS WHERE SEDIMENT MAY BE TRACKED OR FLOW OFF OF THE CONSTRUCTION SITE.

A STABILIZED CONSTRUCTION ACCESS ENTRANCE WILL BE INSTALLED AT THE LOCATION SHOWN ON THE PLAN. THIS ENTRANCE SHALL CONSIST OF A FILTER FABRIC COVERED BY A MINIMUM OF 8" OF SUITABLE ROCK OR CRUSHED STONE.

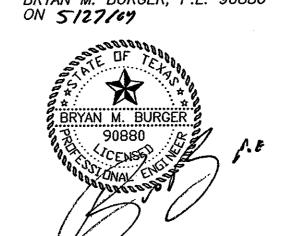
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL MATERIAL OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED



STABILIZED CONSTRUCTION ACCESS DETAIL



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRYAN M. BURGER, P.E. 90880



DATE	REMARKS			
EF	ROSION	CONT	ROL	PLAN
<del></del>				

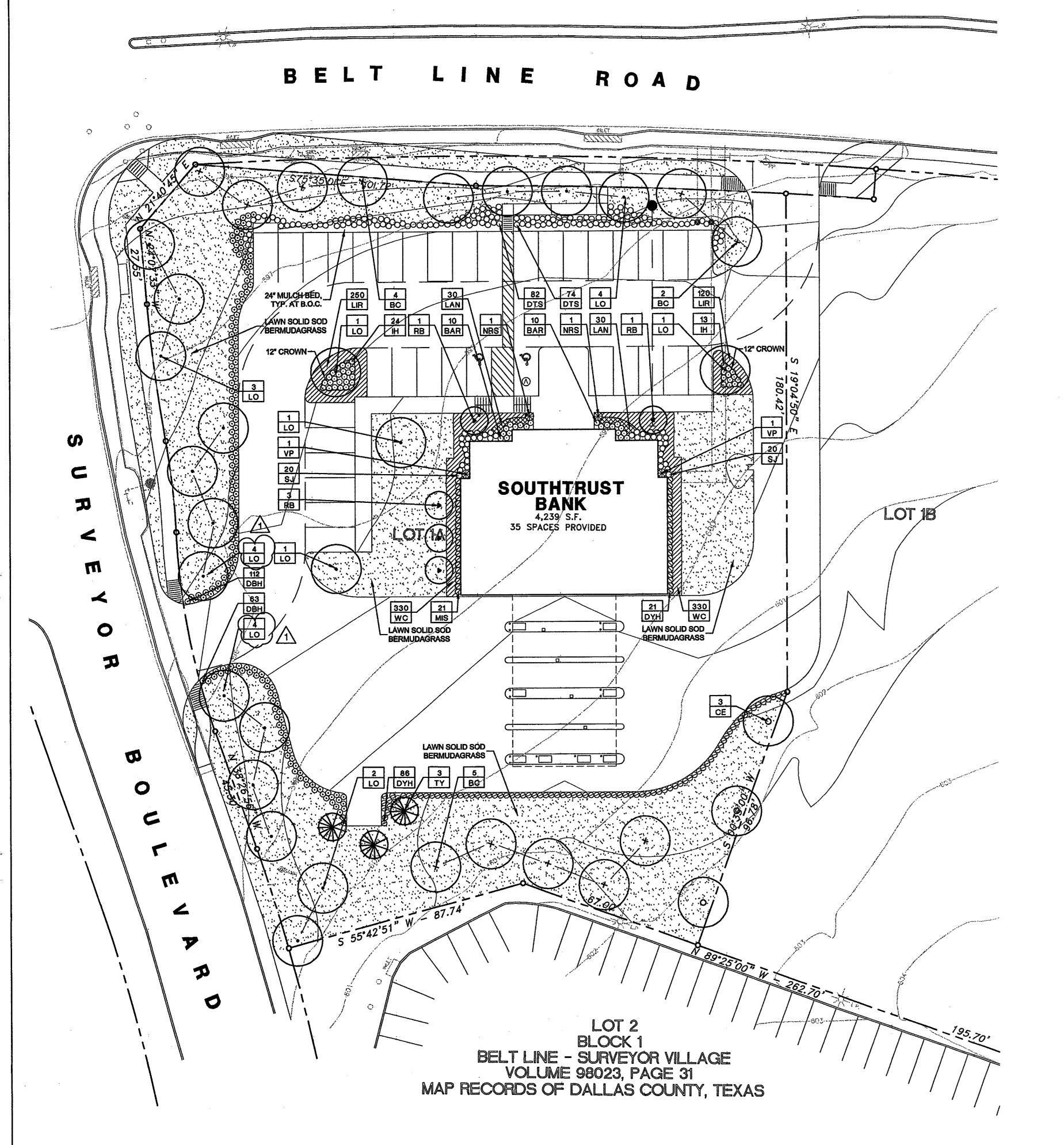
SOUTHTRUST BANK

1"=30'

BELT LINE - SURVEYOR VILLAGE ADDITION

TOWN OF ADDISON, TEXAS LAWRENCE A. CATES & ASSOC., LLP CONSULTING ENGINEERS DALLAS, TEXAS 14200 MIDWAY ROAD, SUITE 122 (972) 385-2272 DATE | SCALE | NOTES FILE DESIGN DRAWN 24001 EROS

D.P.



#### LANDSCAPE NOTES

- 1. Contractor shall verify all existing and proposed site elements and notify Architect of any discrepancies. Survey data of existing conditions was supplied by others.
- 2. Contractor shall locate all existing underground utilities and notify Architect of any conflicts. Contractor shall exercise caution when working in the vicinity of underground utilities.
- 3. Contractor is responsible for obtaining all required landscape and
- 4. Contractor to provide a minimum 2% slope away from all structures.
- 5. All planting beds and lawn areas to be separated by steel edging. No steel to be installed adjacent to sidewalks or curbs.
- 6. All landscape areas to be 100% irrigated with an underground automatic irrigation system and shall include rain and freeze sensors.
- 7. All lawn areas to be Solid Sod Bermudagrass, unless otherwise noted on the drawings.

#### MAINTENANCE NOTES

- 1. The Owner, tenant and their agent, if any, shall be jointly and severally responsible for the maintenance of all landscape.
- 2. All landscape shall be maintained in a neat and orderly manner at all times. This shall include mowing, edging, pruning, fertilizing, watering, weeding and other such activities common to landscape
- 3. All landscape areas shall be kept free of trash, litter, weeds and other such material or plants not part of this plan.
- 4. All plant material shall be maintained in a healthy and growing condition as is appropriate for the season of the year.
- 5. All plant material which dies shall be replaced with plant material of equal or better value.
- Contractor shall provide separate bid proposal for one year's maintenance to begin after final acceptance.

#### **GENERAL LAWN NOTES**

- 1. Fine grade areas to achieve final contours indicated on civil plans.
- 2. Adjust contours to achieve positive drainage away from buildings. Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may
- 3. All tawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.
- 4. Contractor shall provide (2") two inches of imported topsoil on all areas to receive lawn. ADD ALTERNATE.
- 5. Imported topsoil shall be natural, friable soil from the region, known as bottom land soil, free from lumps, clay, toxic substances, roots, debris, vegetation, stones, containing no salt and black to brown in
- 6. All lawn areas to be fine graded, irrigation trenches completely settled, and finish grade approved by the Owner's Construction Manager or Architect prior to installation.
- 7. All rocks 3/4" diameter and larger, dirt clods, sticks, concrete spolls, etc. shall be removed prior to placing topsoil and any lawn

#### **SOLID SOD NOTES**

- 1. Fine grade areas to achieve final contours indicated. Leave areas to receive topsoil 3" below final desired grade in planting areas and 1" below final grade in turf areas.
- Adjust contours to achieve positive drainage away from buildings.Provide uniform rounding at top and bottom of slopes and other breaks in grade. Correct irregularities and areas where water may
- 3. All tawn areas to receive solid sod shall be left in a maximum of 1" below final finish grade. Contractor to coordinate operations with on-site Construction Manager.
- 4. Contractor to coordinate with on-site Construction Manager for availability of existing topsoil.
- 5. Plant sod by hand to cover indicated area completely. Insure edges of sod are touching. Top dress joints by hand with topsoil to fill
- Roll grass areas to achieve a smooth, even surface, free from unnatural undulations.
- 7. Water sod thoroughly as sod operation progresses.
- 8. Contractor shall maintain all lawn areas until final acceptance. This shall include, but not limited to: mowing, watering, weeding, cultivating, cleaning and replacing dead or bare areas to keep plants in a vigorous, healthy condition.
- 9. Contractor shall guarantee establishment of an acceptable turf area and shall provide replacement from local supply if necessary.
- 10. If installation occurs between September 1 and March 1, all sod areas to be over-seeded with Winter Ryegrass, at a rate of (4) pounds per one thousand (1000) square feet.

cont. full, 24" spread, 18" o.c. cont. (3) 12" runners min., 12" o.c. cont. full, 20" spread, 24" o.c.

PLANT LIST
TREES BOTANICAL NAME

**PLANT LEGEND** 

SYMBOL PLANT TYPE

DBH

Bald Cypress Cedar Elm

**Dwarf Burford Holly** 

Dwarf Texas Sage

Dwarf Yaupon Holi

Nellie R. Stevens Hol

Redbud 'Oklahoma' Seagreen Juniper Tree Yaupon Holly Varigated Privet

Quercus virginiana Taxodium distichum

**COMMON NAME** 

B&B, 10' ht. min., 4' spread min. B&B, no lit. Hills, 4' spread, matching cont., 15' ht., 5' spread, 5' branching ht., matching, 3" cal. min. B&B, 15' ht., 5' spread, 5' branching ht.; matching B&B, 15' ht., 5' spread, 5' branching ht.

NOTE: ALL TREES TO HAVE STRAIGHT TRUNKS AND BE MATCHING WITHIN VARIETIES

SHRUBS/GROUNDCOVER BOTANICAL NAME llex vomitoria 'Nana' Juniperus chinensis 'Sea Green Leritana horrida Leucophyllum frutescens 'Com Ligustrum lucidium 'Variegata' Miscanthus sinensis 'Gracillimus' Raphiolepsis indica 'Clara' llex x 'Nellie R. Stevens'

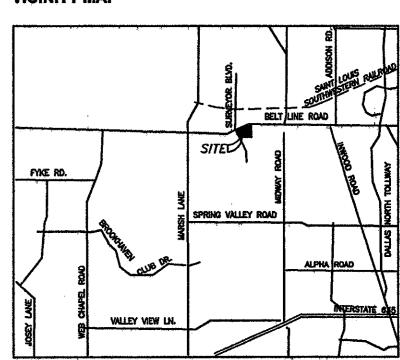
Neille R. Stevens Holl

107 5 gal. cont. full, 20" spread, 24" o.c. cont. full, 24" spread, 36" o.c. cont. (3) 12" runners min., 12" o.c. cont. full, 24" spread, 24" o.c. cont. full, 36" ht. cont. full, 24" o.c., 18" ht. cont. full, 20" spread, 24" o.c. cont. full, 36" ht., 36" spread cont. full top of cont. 12" o.c.

NOTE: Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. All plant material shall meet or exceed remarks as indicated.

Liriope 'Gigantes' Common Bermudagn

#### VICINITY MAP



#### LANDSCAPE TABULATIONS

SITE REQUIREMENTS Requirements: 20% of gross site to be landscape Total Site: 56,107 s.f.

11,221 s.f. (20%)

STREET FRONTAGE Requirements: 20' buffer along street frontage (1) tree 4" cal. per 20 i.f., (8) shrubs per 20 i.f.

22,666 s.f. (40%)

(10) trees, 4" cal.

Belt Line Road: 204 l.f. Required

(10) trees, 4" cal.

(80) shrubs, 5 gal. (150 ) shrubs, 5 gal. Surveyor Boulevard: 265 l.f.

(13) trees, 4" cal. (13) trees, 4" cal. (106) shrubs, 5 gal. (160) shrubs, 5 gal.

PARKING LOT SCREEN Requirements: 20" ht., 3' o.c., double staggered row

Provided: 24" ht., 3' o.c. linear row

PERIMETER LANDSCAPE Requirements: 5' wide buffer, (1) 4" cal. tree and (8) shrubs per 35 l.f.

South Property Line: 154 l.f. (5) trees, 4" cal. (78) shrubs, 5 gal. (5) trees, 4" cal.

East Property Line: 96 Lf.

(35) shrubs, 5 gal.

Provided
(3) trees, 4" cal. (3) trees, 4" cal. (24) shrubs, 5 gal. (29) shrubs, 5 gal. PARKING LOT - INTERIOR LANDSCAPE

Requirement: 8% of the parking area must be landscape Parking lot: 13,963 s.f.

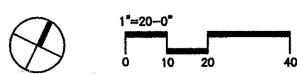
1,080 s.f. (8%) 1,051 s.f. (7.6%) **PARKING LOT** 

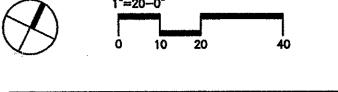
Requirement: (1) tree per 10 regular spaces
Total Parking: 35 spaces (3) trees (3) trees, 4" cal.



1708 N. Griffin Street Dallas, Texas 75202 Tel 214.871.0083 Fax 214.871.0545

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M.S.

LANDSCAPE PLAN SOUTHTRUST BANK BELT LINE - SURVEYOR VILLAGE ADDITION TOWN OF ADDISON, TEXAS LAWRENCE A. CATES & ASSOC., LLP CONSULTING ENGINEERS DALLAS, TEXAS 14200 MIDWAY ROAD, SUITE 122 (972) 385-2272 SCALE NOTES FILE NO. DESIGN

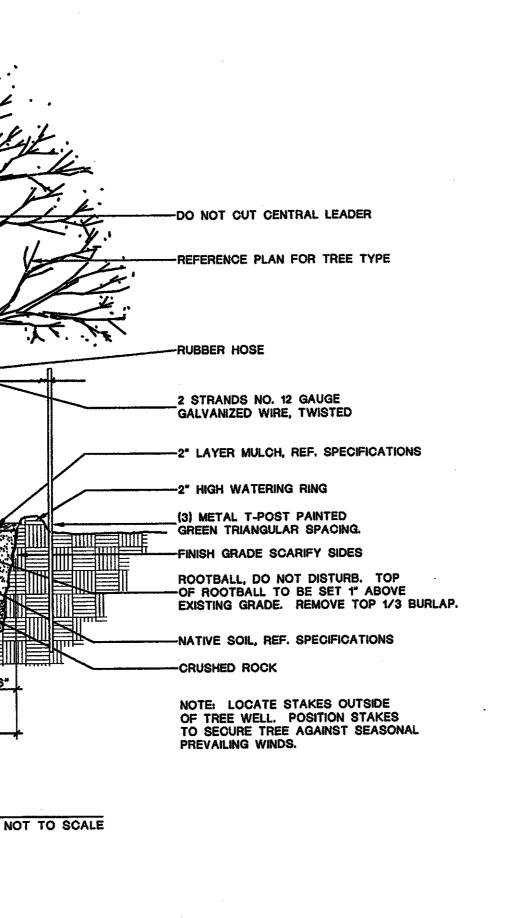
1"=20'

# 1.2 DESCRIPTION OF WORK A. Work included: Furnish all supervision, labor, materials, services, equipment and appliances required to complete the work covered in conjunction with the landscaping covered in these specifications and landscaping plans, including: Planting (trees, shrubs, and grass) Bed preparation and fertilization Notification of sources Water and Maintenance until final acceptance Guarantee A. American Standard for Nursery Stock published by American Association of Nurserymen: 27 October 1980, Edition; by American National Standards Institute, inc. (Z60.1)-plant material. B. American Joint Committee on Horticultural Nomenclature: 1942 Edition of Standardized Plant Names. 1.4 NOTIFICATION OF SOURCES AND SUBMITTALS A. The Contractor shall, within ten (10) days following acceptance of bid, notify the Architect/Owner of the sources of plant materials and bed preparation required for the project. B. Samples: Provide representative quantities of sandy toam soil, mulch, bed mix material, gravel, and crushed stone. Samples shall be approved by Architect before use on project. Submit three representative samples of each variety of ornamental trees, shrubs, and groundoover plants for Architect's approval. When approved, tag, install, and maintain a representative samples for final installed plant materials. E. File Certificates of Inspection of plant material by state, county, and federal authorities with Architect, if required. F. Soil Analysis: Provide sandy loam soil analysis if requested by the Architect. A. General Contractor to complete the following punch list: Prior to Landscape Contractor initiating any portion of landscape installation, General Contractor shall leave planting bed areas three (3") inches below finish grade of eldewalks, drives and curbs as shown on the drawings. All lawn areas to receive solid sod shall be left one (1") inch below the finish grade of eldewalks, drives, and curbs. All construction debris shall be removed prior to Landscape Contractor beginning any work. B. General Contractor shall provide topsoli as described in Section 02200 - Earthwork. C. Storage of materials and equipment at the job site will be at the risk of the Landscape Contractor. The Owner cannot be held responsible for theft or damage. 3.1 BED PREPARATION & FERTILIZATION

 Landscape Architect will provide a key identifying each tree location on site.
 Written verification will be required to document material selection, source and delivery schedules to site. A. Maintenance of plant materials shall begin immediately after each plant is delivered to the site and shall continue until all construction has been satisfactorily accomplished.

B. Plant materials shall be delivered to the site only after the beds are prepared and are ready for planting. All shipments of nursery materials shall be thoroughly protected from the drying winds during transit. All plants which cannot be planted at once, after delivery to the site, shall be well protected against the possibility of drying by wind and sun. Balls of earth of B & B plants shall be kept covered with soil or other acceptable material. All plants remain the property of the Contractor until final acceptance.

C. Position the trees and shrubs in their intended acceptance of start. A. Landscape Contractor to inspect all existing conditions and report any deficiencies to the Owner 1. Prepare new planting beds by scraping away existing grass and weeds as necessary. Till existing soil to a depth of six inches prior to fertilizer and compost application. Apply fertilizer as per manufacturer's recommendations. Add six [8"] inches of compost and till into a depth of six [6"] inches of the native soil. Apply organic fertilizer such as Sustane or Green Sense at the rate of twenty [20] pounds per one thousand [1,000] square feet. Section 02900 - 06 -DO NOT CUT CENTRAL LEADER -REFERENCE PLAN FOR TREE TYPE 2 STRANDS NO. 12 GAUGE GALVANIZED WIRE, TWISTED -2" LAYER MULCH, REF. SPECIFICATIONS ' HIGH WATERING RING (3) METAL T-POST PAINTED green triangular spacing. 4" DIA. PERFORATED H GRADE SCARIFY SIDES PVC PIPE W/ CAP-PAINTED BLACK ROOTBALL, DO NOT DISTURB. TOP OF ROOTBALL TO BE SET 1" ABOVE EXISTING GRADE. REMOVE TOP 1/3 BURLAP. NATIVE SOIL, REF. SPECIFICATIONS -CRUSHED ROCK NOTE: LOCATE STAKES OUTSIDE OF TREE WELL. POSITION STAKES OF ROOTBALL TO SECURE TREE AGAINST SEASONAL PREVAILING WINDS.



1.6 MAINTENANCE AND GUARANTEE

Maintenance shall include watering of trees and plants, cultivation, weeding, apraying, edging, pruning of trees, mowing of grass, cleaning up and all other work necessary of maintenance.
 A written notice requesting final inspection and acceptance should be submitted to the Owner at least seven (7) days prior to completion. An on-site inspection by Owner and Landscape Contractor will be completed prior to written acceptance.
 After final acceptance of installation, the Landscape Contractor will not be required to do any of the above listed work.

1. Trees shall be guaranteed for a twelve (12) month period after acceptance. Shrubs and groundcover shall be guaranteed for twelve (12) months. The Contractor shall replace all dead materials as soon as weather permits and upon notification of the Owner. Plants, lockuling trees, which have partially died so that shape, size, or symmetry has been damaged, shall be considered subject to replacement. In such cases, the opinion of the Owner shall be final.

a. Plants used for replacement shall be of the same kind and size as those originally planted and shall be planted as originally specified. All work, including materials, labor and equipment used in raplacements, shall carry a twelve [12] month guarantee. Any damage, including ruts in lawn or bed areas, incurred as a result of making replacements shall be immediately repaired.

General: Comply with applicable Federal, State, County, and Local regulations governing landscape materials and work.

17 QUALITY ASSURANCE

Owner and/or Architect may reject unsatisfactory or defective material at any time during the process of work. Remove rejected materials from the site immediately. Plants damaged in transit or at job site shall be rejected.

1.8 PRODUCT DELIVERY, STORAGE AND HANDLING

Preparation:

1. Balled and Burlapped (B&B) Plants: Dig and prepare shipment in a manner that will not damage roots, branches, shape, and future development.

2. Container Grown Plants: Deliver plants in rigid container to hold ball shape and protect root meas.

 Delivery:

 Deliver packaged materials in sealed containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and
 Deliver only plant materials that can be planted in one day unless adequate storage and watering facilities are available on job site.
 Protect root balls by heeling in with sawdust or other approved moisture retaining material if not planted within 24 hours of delivery.

 Protect plants during delivery to prevent damage to root balls or deslocation of teaves. Keep plants moist at all times. Cover all materials during transport.
 Notify Architect of delivery schedule 72 hours in advance so plant material may be observed upon arrival at job site.
 Remove rejected plant material immediately from site. 6. Remove rejected plant material immediately from site.
7. To avoid damage or stress, do not lift, move, adjust to plumb, or otherwise manipulate plants by trunk or stems.

A. General: Well-formed No. 1 grade or better nursery grown stock. Listed plant heights are from tops of root balls to nominal tops of plants. Plant spread refers to nominal outer width of the plant, not to the outer leaf tips. Plants will be individually approved by the Architect and his decision as to their acceptability shall be final. B. Quantities: the drawings and specifications are complimentary; anything called for on one and not the other is as binding as if shown and called for on both. The plant schedule is an aid to bidders only. Confirm all quantities on plan.

C. Quality and size: Plant materials shall conform to the size given on the plan, and shall be healthy, symmetrical, well shaped, full branched, and well rooted. The plants shall be free from injurious insects, diseases, injuries to the bank or roots, broken branches, objectionable disfigurements, insect eggs and larvae and are to be of specimen quality.

D. Approval: All plant materials shall be subject to the approval of the Owner and/or Landscape Architect. All plants which are found unsuitable in growth, or in any unhealthy, badly shaped, or undersized condition, will be rejected by the Landscape Architect, either before or after planting, and shall be removed at the expense of the Landscape Contractor and replaced with acceptable plants as specified.

E. Trees shall be healthy, full branched, well shaped, and shall meet the trunk diameter and height requirements of the plant schedule. Balled and Burlapped shall be firm, neat, slightly tapered, and well wrapped in burlap. Any tree loose in the ball or with broken ball at time of planting will be rejected. Balls shall be ten [10"] inches in diameter for each one [1"] inch of trunk diameter, measured six [6"] inches above ball.

a. Nomenclature conforms to customary nursery usage; for clarification,

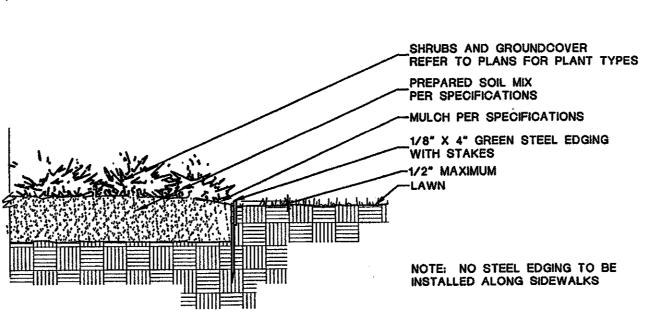
F. Pruning: All pruning of trees and shrubs, as directed by Landscape Architect, shall be executed by Landscape Contractor at no additional cost to the Owner

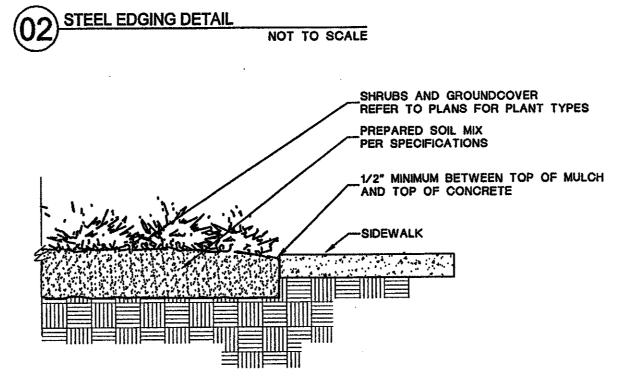
F. Shrub and tree pits shall be no less than two [2"] feet, twenty-four [24"] inches wider than the lateral dimension of earth ball and six [6"] inches deeper than its vertical dimension. Remove and haul from site all rocks or stones over one [1"] inches in diameter. Plants should be thoroughly moist before removing containers.

Backfill only with 5 parts existing soil or sandy loam and 1 part bed preparation. When hole is dug in soild rock, topsoil from the same area should not be used. Carefully settle by watering to prevent air pockets. Remove the burlap from the top 1/3 of the ball, as well as all nylon, plastic string and wire mesh. Container trees will usually be pot bound, if so follow standard nursery practice of 'root scoring'.

J. Do not wrap trees. K. Do not over prune.

M. All plant beds and trees to be mulched with a minimum settled thickness of two (2") inches over the entire bed or pit.





SIDEWALK / MULCH DETAIL no steel along sidewalks NOT TO SCALE 2.2 SOIL PREPARATION MATERIALS

1. Friable, fertile, dark, loamy soil, free of olay lumps, subsoil, atones and other extraneous material and reasonably free of weeds and foreign grasses. Loam containing Dallasgrass or Nutgrass shall be rejected.

2. Physical properties as follows:
Clay-between 7-27 percent
Silt-between 15-25 percent
Sand-less than 52 percent
3. Organic matter shall be 3%-10% of total dry weight.
4. If requested, provide a certified soil analysis conducted by an approved soil testing laboratory verifying that sandy loam meets the above requirements.

2. Organic Materials Compact with a mixture of 80% vegetative matter and 20% animal

C. Premixed Bedding Soll as supplied by Vital Earth Resources, Gladewater, Texas;
Professional Bedding Soll as supplied by Living Earth Technology, Dallas, Texas or Acid
Gro Municipal Mix as supplied by Soll Building Systems, Dallas, Texas or approved equal.

 D. Sharp Sand: Sharp sand must be free of seeds, soil particles and weeds.
 E. Muich: Double Shredded Hardwood Muich, partially decomposed, dark brown. Living Earth Technologies or approved equal.
 F. Organic Fertilizer: Fertilizer, shall be delivered to the site in original unopened containers, each bearing the manufacturer's guaranteed statement of analysis. G. Commercial Fertilizer: 10-20-10 or similar analysis. Nitrogen source to be a minimum 50% slow release organic Nitrogen (SCU or UF) with a minimum 8% sulfur and 4% Iron, plus micronutrients.

H. Peat: Commercial sphagnum peat moss or partially decomposed shredded pine bark or other approved organic material.

A. Steel Edging: Shall be Ryerson "Estate Curbing", 1/8"x4" with stakes 4' on center.
B. Staking Material for Shade Trees:

Post: Studded T-Post, no.1 Armoo with anchor plate; 6'-0" length; paint black
Wire: 12 gauge, single strand, galvanized wire.
Rubber hose: 2 ply, fiber reinforced hose, minimum 1/2 inch inside diameter. Color: Black

C. Gravel: Washed native pea gravel, graded 1 in. to 1-1/2 in. D. Filter Fabric: Mirafl 140N by Celanese Fibers Marketing Company, Available at Loftland Co., (214) 631-5250 or approved equal.

O. Trees and large shrubs shall be staked as site conditions require. Position stakes to

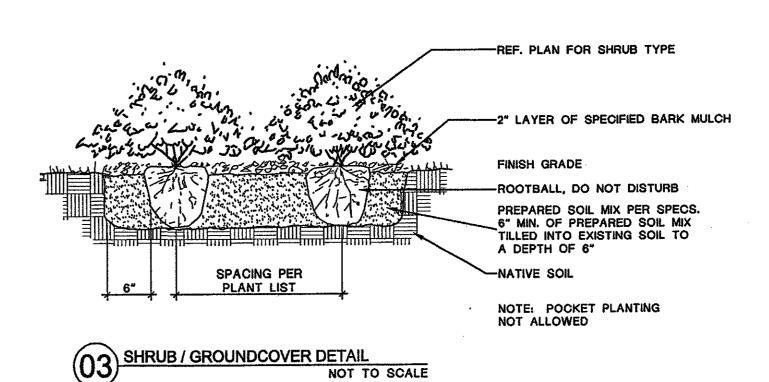
Pruning and Mulching: Each area shall be pruned in accordance with standard horticultural practice to preserve the natural character of the plant and in the manner fitting its use in the landscape design. Dead wood or suckers and broken or badly bruised branches shall be removed General tipping of all branches is not permitted. Pruning shall be done with clean sharp tools.

Immediately after planting operations are completed, all tree pits shall be covered with a layer of specified mulch two (2") inches in depth. This limit of the specified mulch for trees shall be the diameter of the plant pit.

All steel curbing shall be free of kinks or abrupt bends. Top of ourbing shall be 1/2" maximum higher than existing grade.
 Stakes are to be installed on the planting bed side of the curbing, as opposed to the grass side.
 Do not install steel edging along sidewalks.

6. Cut steel edging at 45 degree angle where edging meets sidewalk.

END OF SECTION





landscape architects, Inc.

L1.02

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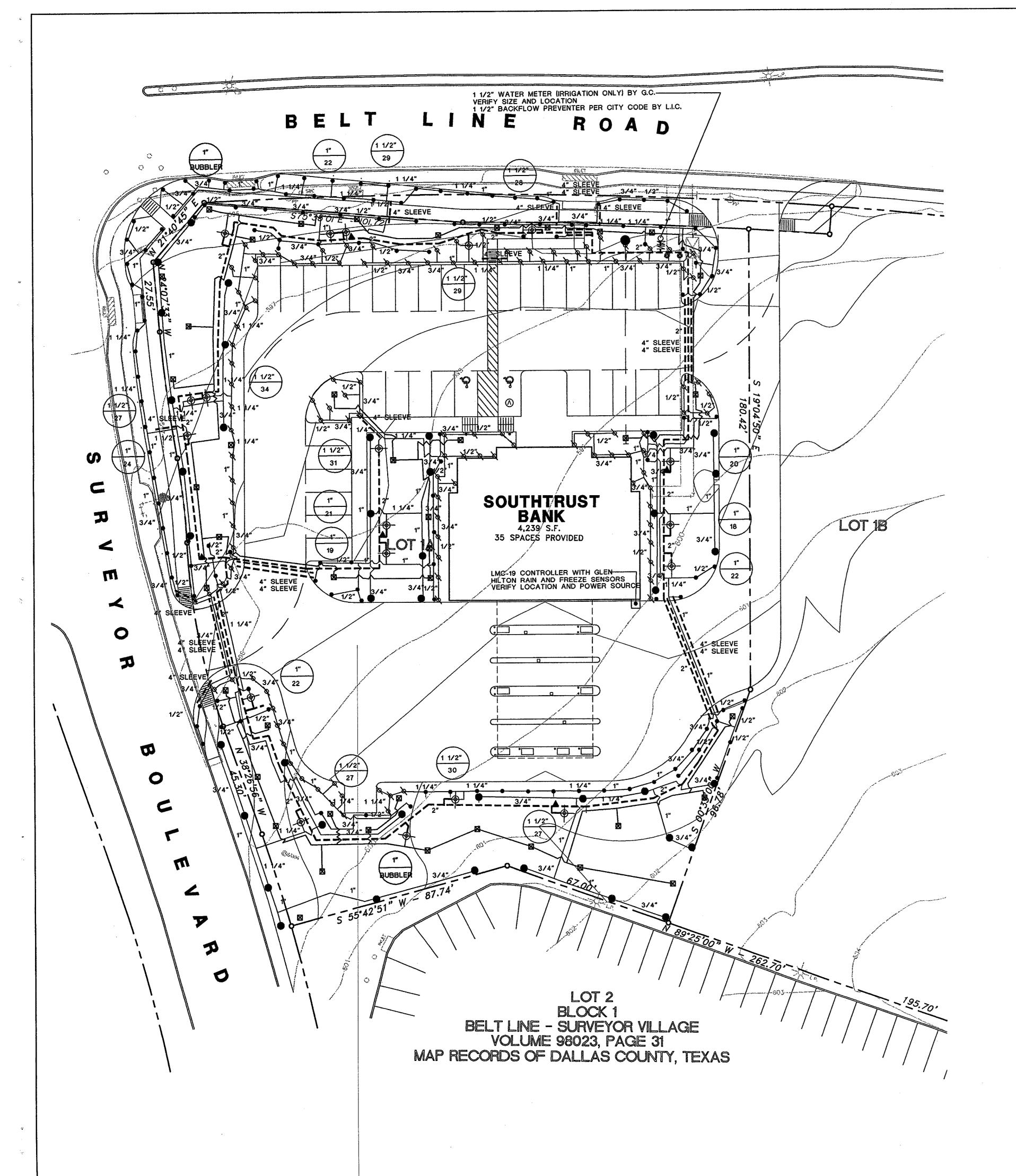
REV. DATE REMARKS LANDSCAPE SPECS. AND DETAILS SOUTHTRUST BANK BELT LINE - SURVEYOR VILLAGE ADDITION TOWN OF ADDISON, TEXAS CONSULTING ENGINEERS LAWRENCE A. CATES & ASSOC., LLP DALLAS, TEXAS 14200 MIDWAY ROAD, SUITE 122 (972) 385-2272 SCALE | NOTES FILE DESIGN DATE DRAWN

1"=20'

02.23.04

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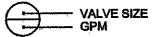
#### **BUBBLER PIPING CHART**

1-5 BUBBLERS - 1/2" PIPE 6-10 BUBBLERS - 3/4" PIPE 11-20 BUBBLERS - 1" PIPE 21-30 BUBBLERS - 1 1/4" PIPE 31-40 BUBBLERS - 1 1/2" PIPE

#### **IRRIGATION LEGEND**

- WEATHERMATIC LX-4 POP-UP LAWN HEAD
- Ø WEATHERMATIC LX-12 POP-UP SHRUB HEAD
- WEATHERMATIC TURBO ROTARY FC
- WEATHERMATIC TURBO ROTARY PC
- 106.5 BUBBLER (2 PER TREE)
- WEATHERMATIC 11000 SERIES ELECTRIC VALVE
- ▲ WEATHERMATIC V075R QUICK COUPLER
- CONTROLLER, SIZE AS INDICATED
- O WATER METER, SIZE AS INDICATED
- D.C.A., SIZE AS INDICATED

  PVC CLASS 200 LATERAL LINE
- --- PVC CLASS 200 MAINLINE
- --- PVC SCHEDULE 40 SLEEVING



#### SLEEVING NOTES

- Contractor shall lay sleeves and conduits at twenty-four (24") inches below finish grade of the top of pavement.
- Contractor shall extend sleeves one (1') foot beyond edge of all pavement.
- Contractor shall cap pipe ends using PVC caps.
- 4. All sleeves shall be Schedule 40 PVC pipe.
- Contractor shall furnish Owner and Irrigation Contractor with an 'as-built' drawing showing all sleeve locations.

#### **IRRIGATION NOTES**

- All sprinkler equipment numbers reference the Weathermatic equipment catalog unless otherwise indicated.
- 2. LAWN SPRAY HEADS are LX-4 installed as per detail shown.
- 3. SHRUB SPRAY HEADS are LX-12 installed as per detail shown.
- ELECTRIC CONTROL VALVES shall be #11000 CR installed per detail shown. Size valves as sown on plan. Valves shall be installed in value boxes large enough to permit manual operation, removal of solenoid and/or yalve cover without any earth excavation.
- QUICK COUPLING VALVES shall be #VO75R installed per detail shown. Swing joints shall be constructed using 3/4" Schedule 80 elbows. Contractor shall supply owner with three (3) #CO75 couplers and three (3) #10 swivel hose ells as part of this contract.
- AUTOMATIC CONTROLLER shall be installed at location shown.
   Power (120V) shall be located in a junction box within five (5') feet of controller location by other trades.
- All 24 volt valve wiring is to be UF 14 single conductor. All wire splices are to be permanent and waterproof.
- 8. SLEEVES shall be installed by General Contractor. Sleeve material shall be Schedule 40. Size as indicated on plan.
- Ten days prior to start of construction, Landscape or Irrigation
   Contractor shall verify static water pressure. If static pressure is less
   than 50 P.S.I., do not work until notified to do so by Owner.
- All main line and lateral piping to a minimum of 12 inches of cover.
   All piping under paving shall have a minimum of 18" of cover.
- 11. The Irrigation Contractor shall coordinate installation of the system with the Landscape Contractor so that all plant material will be watered in accordance with the intent of the plans and specifications.
- 12. The Irrigation Contractor shall select the proper arc and radius for each nozzle to insure 100% and proper coverage of all lawn areas and plant material. All nozzles shall be Weathermatic 5500 Series. All nozzles in parking lot islands and planting beds shall be low angle to minimize over spray on pavement surfaces. No water will be allowed to spray on building.

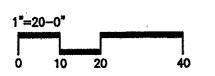




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J.J.W.

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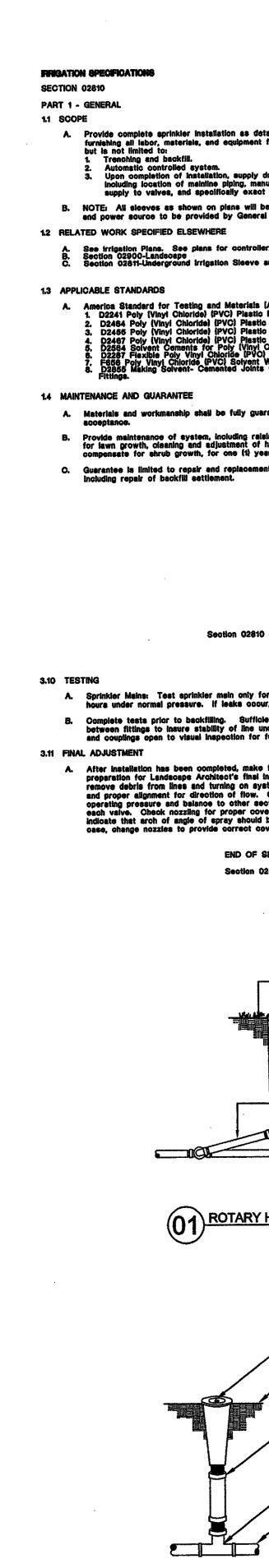


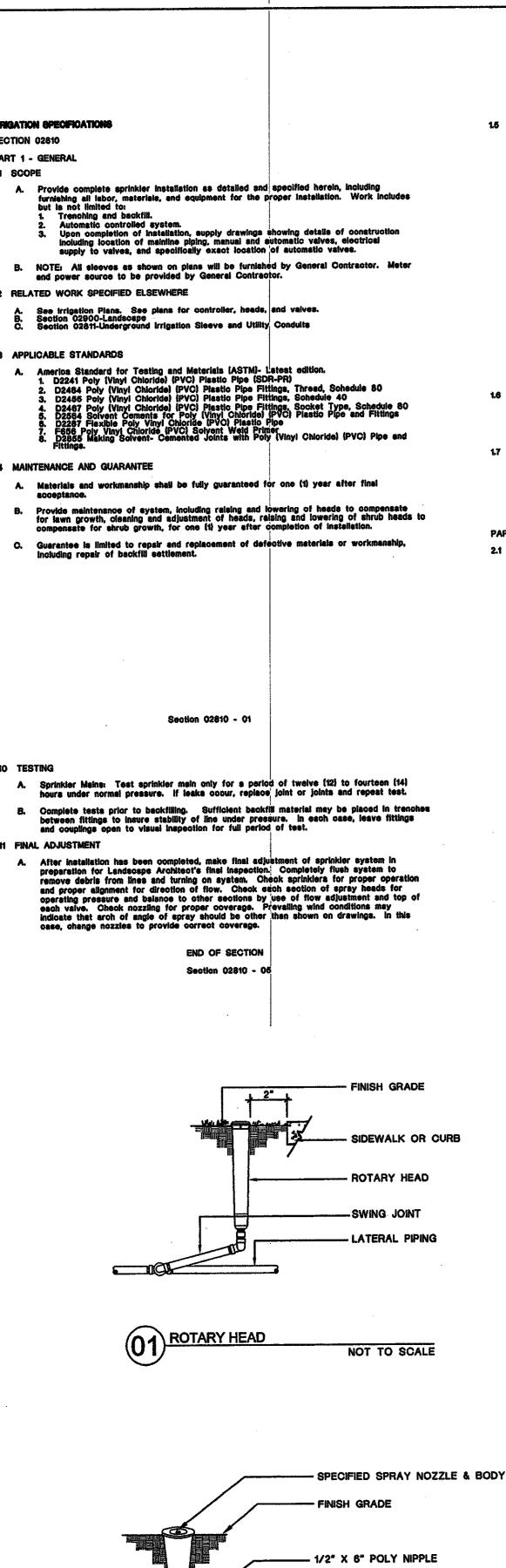
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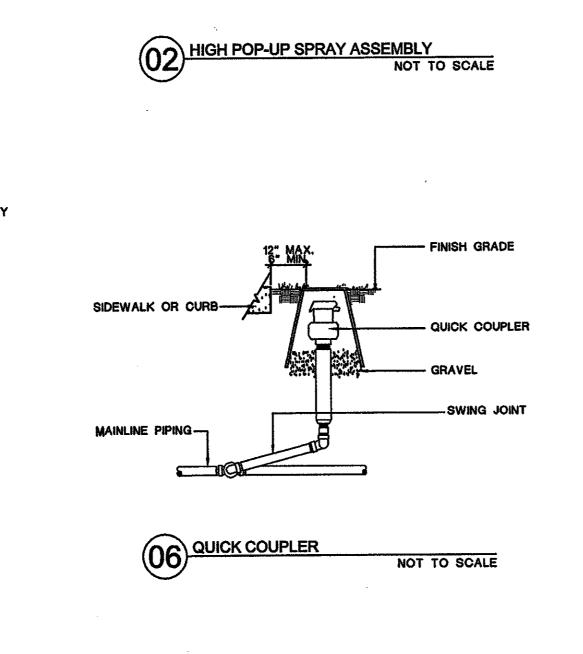
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1"=20'







**ELEVATION** 

CLASS 200 PVC LATERAL LINE

- S X S X T PVC SCHEDULE 40

OUTLET TEE OR ELBOW

FINISHED GRADE - MULCH

CLASS 200 PVC LATERAL LINE

MALE ADAPTER (MIPT X S)

SCHEDULE 40 PVC STREET ELL

FLEXIBLE PVC (LENGTH AS REQUIRED)

Procedure: Comply with Division I requirements.

Product Date: Submit copies of equipment manufacturer's specifications and literature for

6. Provide three complete operation manuals and equipment brontives neatry bound in Quick Coupler Keys: Provide 3 coupler keys with boiler drains attached using brass reducer. Controller Keys: Provide two sets of keys to controller enciosure(s). Use of materials differing in quelity, size, or performance from those specified will only be allowed upon written approval of Owner/Landscape Architect. The decision will be based on comparitive ability of material or article to perform fully all pruposes of mechanics and general design considered to be possessed by item specified.

Bidders desiring to make a substitution for specified sprinklers shall submit manufacturer's catalog sheet showing full specification of each type sprinkler proposed as a substitute, including discharge in GPM maximum allowable operating pressure at sprinkler.

sprinkler.

Approval of substitute sprinkler shall not relieve Contractor of his responsibility to demonstrate that final installed sprinkler system will operate according to intent of originally designed and specified system.

It is the responsibility of the irrigation Contractor to demonstrate that final installed sprinkler system will operate according to intent of originally originally designed and specified system. If irrigation Contractor notes any problems in head spacing or potential coverage, it is his responsibility to notify the Landscape Architect in writing, before proceeding with work. Irrigation Contractor guarantees 100% coverage of all areas to be irrigated.

A. Perform testing required with other trades, including earthwork, paving, and plumbing, to avoid unnecessary cutting, patching and boring.

A. Coordinate installation with other trades, including earthwork, paving, and plumbing, to avoid unnecessary outling, patching and boring.
 B. Coordinate to ensure that electrical power source is in piace.

PART 2 - PRODUCTS

2.1 GENERAL

C. Coordinate system installation with work specified in other sections and coordinate with landscape installer to ensure plant material is uniformly watered in accordance with intent shown on drawings.

A. Mainline: Piping from water source to operating valves. This portion of piping is subject to surges, being a closed portion of sprinkler system. Hydrant lines are considered a part of sprinkler main.

Section 02810 - 02

B. Lateral Piping: Lateral piping is that portion of piping from operating valve to sprinkler heads. This portion of piping is not subject to surges, being an "open end" portion of sprinkler system.

B. Water Pressure: Prior to starting construction, determine if static water pressure is as

approval.

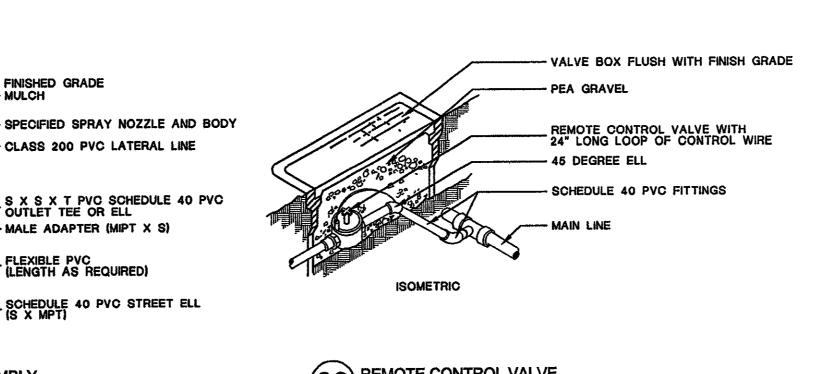
C. Project Record Documents

1. Comply with Division I requirements.

2. Locate by written dimension, routing of mainline piping, remote control valves and

3. When dimensioning is complete, transpose work to mylar reproducible tracings, tracings will be provided by Architect.

A completed tracings prior to final acceptance. Mark tracings "Record Private and acceptance and equipment brochures nestly bound tracings and equipment brochures nestly bound tracings.



NOT TO SCALE

NOT TO SCALE

2.2 POLY VINYL CHLORIDE PIPE (PVC PIPE)

2.4 COPPER TUBE FITTINGS

2.6 SCHEDULE 80 PVC NIPPLES

2.7 MATERIALS - See Irrigation Plan

PART 3 EXECUTION

3.1 INSTALLATION - GENERAL

A. PVC pipe shall be manufactured in accordance with commercial standards noted herein.

C. PVC Pipe Fittings: Shall be of the same material as the PVC pipe specified and shall be compatible with PVC pipe furnished.

A. Type UF with 4-64" insulation which is Underwriter's Laboratory approved for direct underground burial when used in a National Electric Code Class & Circuit (30 volts AC or less).

A. Composed of Standard Schedule 40 PVC Fittings and PVC meeting noted standards. No clamps or wires may be used. Nipples for 1812 heads and shrub risers to be nominal one-half (1/2") inch diameter by eight (8") inches long, where applicable.

B. Polyethylene nipples six (6") inches long to be used on all 1804 and 1808 pop-up apray heads.

C. Electric valves to be all plastic construction as indicated on plans.

D. Refer to drawing for backflow prevention requirements and flow valve. Coordinate exact location with Landscape Architect.

A. Staking: Before installation is started, place a stake where each sprinkler is to be located, in accordance with drawing. Staking shall be approved by Landscape Architect before proceeding.

B. Excavations: Excavations are unclassified and include earth, loose rock, rock or any combination thereof, in wet or dry state. Backfill trenches with material that is suitable for compaction and contains no lumps, clods, rock, debris, etc. Special backfill specifications, if furnished take preference over this general specification.

C. Beckfill: Flood or hand-tamp to prevent after settling. Hand rake trenches and adjoining area to leave grade in as good or better condition than before installation.

D. Piping Layout: Piping layout is diagrammatio. Route piping around trees and shrubs in such a manner as to avoid damage to plantings. Do not dig within ball of newly planted trees or shrubs.

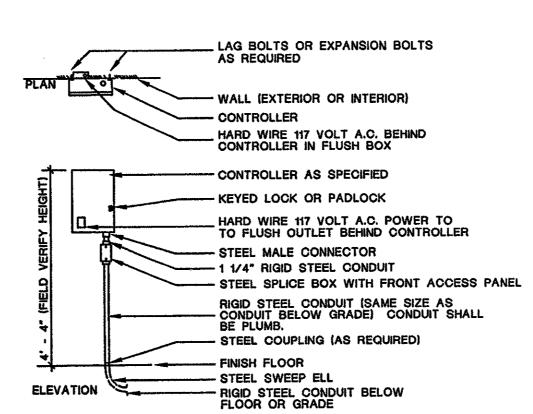
A. Hard, straight, lengths of domestic manufacture only. No copper tube of foreign extrusion or any so-called irrigation tubing (thin wall) shall be used.

A. Cast bress or wrought copper, sweat-solder type.

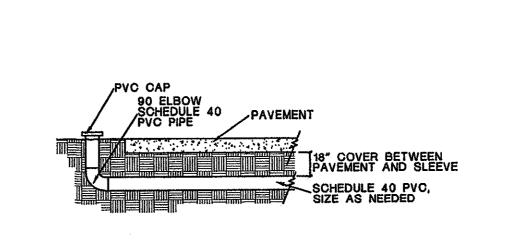
A. Sprinkler heads in lawn area as specified on plan.

B. PVC Pipe: Class 200, SPR 21
Copper Tubing (City Connection): Type "M"
24V Wire: Size 14, Type U.F.

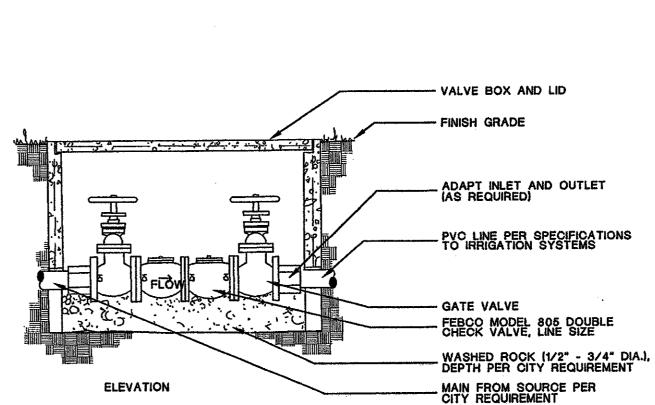
B. Marking and Identification: PVC pipe shall be continuously and permanently marked with the following information: manufacturer's name, pipe size, type of pipe, and material, SDR number, product standard number, and the NSF (National Sanitation Foundation)



(07) WALL MOUNTED CONTROLLER



NOT TO SCALE



NOT TO SCALE

A. Sprinkler Mains: Install a four (4") inch minimum trench with a minimum of eighteen (18") inches of cover.
 B. Lateral Piping: Install a four (4") inch wide minimum trench deep enough to allow for installation of sprinkler heads and valves, but in no case, with less than twelve (12") inches

of cover.

C. Trenching: Remove lumber, rubbish, and large rocks from trenches. Provide firm, uniform bearing for entire length of each pipe line to prevent uneven settlement.

Wedging or blocking of pipe will not be permitted. Remove foreign matter or dirt from inside of pipe before welding, and keep piping clean by approved means during and

A. Solvent: Use only solvent recommended by manufacturer to make solvent-welded joints. Thoroughly clean pipe and fittings of dirt, dust and moisture before applying

B. PVC to metal connection: Work metal connections first. Use a non-hardening pipe dope such as Permatex No. 2 on threaded PVC adapters into which pipe may be

A. Clean pipe and fitting thoroughly and lightly sand pipe connections to remove residue from pipe. Attach fittings to tubing in an approved manner using 50-50 soft solid core

A. Shrub Spray Heads: Supply in accordance with materials list, with nozzling in accordance with drawings. Drawings indicate size of nozzling and degree of arc. Determine correct degree of arc of nozzle (if conditions warrant) by area to be covered and by wind conditions that may affect coverage.
 B. Height: Install heads on PVC Schedule 80 risers sufficiently high to water under shrubs and plants, or as directed by the Landscape Architect.

A. Supply pop-up spray heads in accordance with materials list and plan. Attach sprinkler to lateral piping with a semi-flexible polyethylene nipple not less than tree (3") inches or more than six (6") inches long.

A. Supply valves in accordance with materials list and sized according to drawings. Install valves in a level position in accordance with Manufacturer's Specifications. See plan for typical installation of electric valve, valve box.

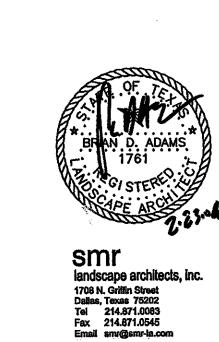
A. Supply wiring from the automatic sprinkler controls to the valves. No conduit will be required for U.F. wire unless otherwise noted on the plan. Wire shall be tucked under

B. A separate wire is required from the control to each electric valve. A common neutral wire is also required from each control to each of the valves served by each particular.

C. Bundle multiple wires and tape them together at ten (10") foot intervals. Install ten (10") inch expansion coil at not more than one hundred (100") foot intervals. Make splices waterproof.

3.9 AUTOMATIC SPRINKLER CONTROLS

A. Supply in accordance with irrigation Plan. Install according to manufacturer's



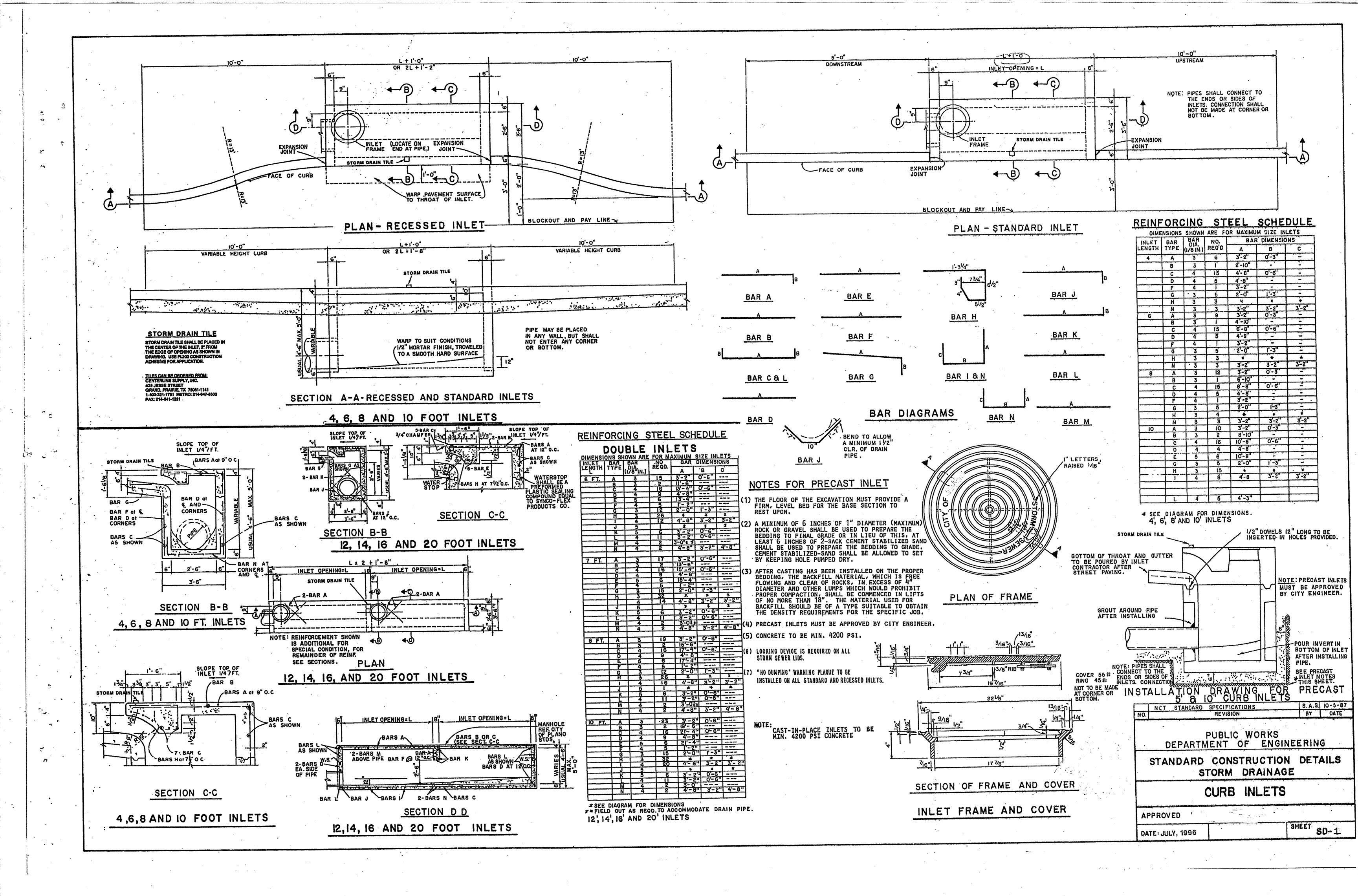
L2.02

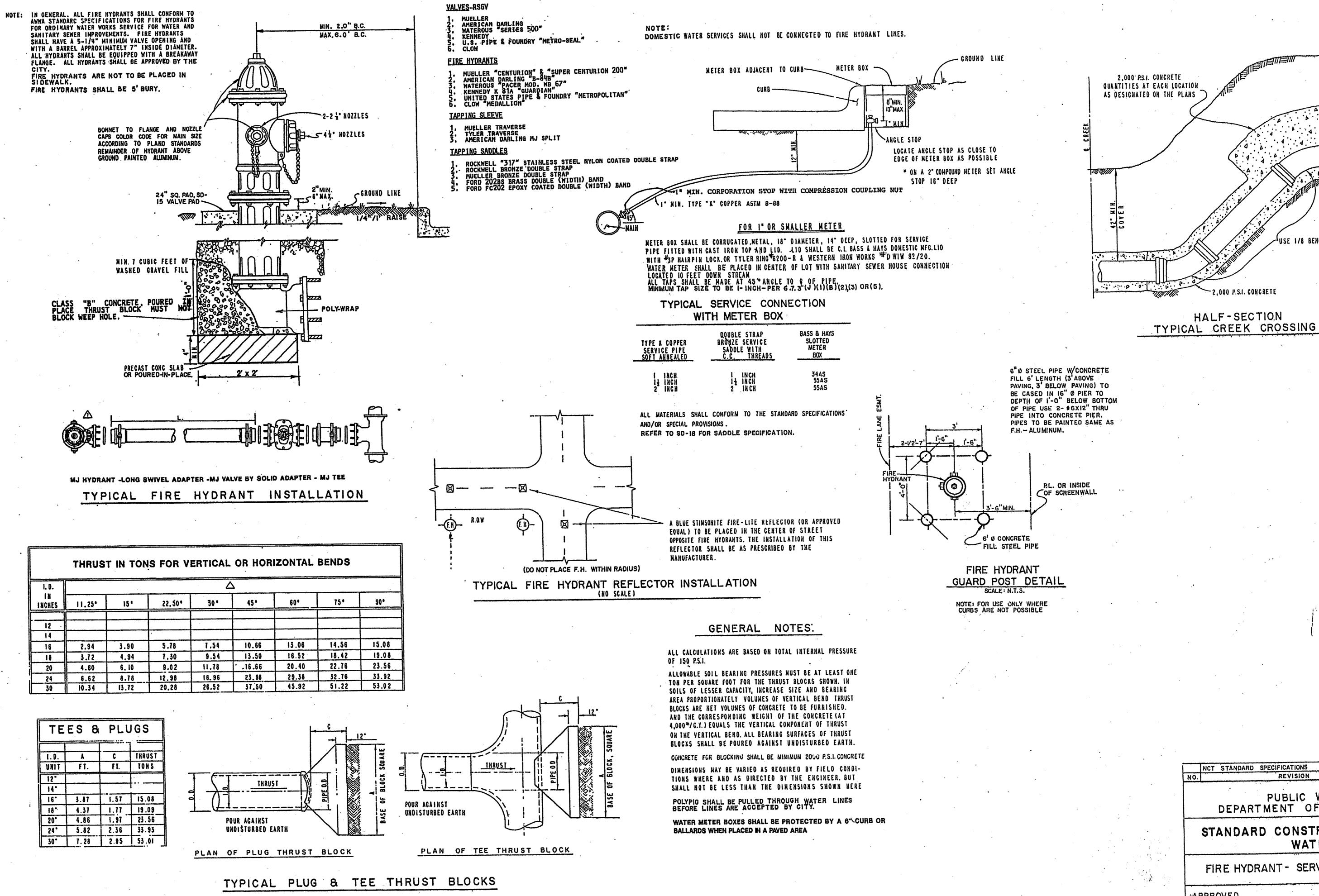
IRRIGATION SPECS. AND DETAILS SOUTHTRUST BANK BELT LINE - SURVEYOR VILLAGE ADDITION TOWN OF ADDISON, TEXAS LAWRENCE A. CATES & ASSOC., LLP CONSULTING ENGINEERS DALLAS, TEXAS FILE NO. NOTES DATE SCALE DESIGN DRAWN

02,23.04 1"=20'

M.S.

M.S.





APPROVED FIRE HYDRANTS, VALVES, ETC.

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PUBLIC WORKS
DEPARTMENT OF ENGINEERING

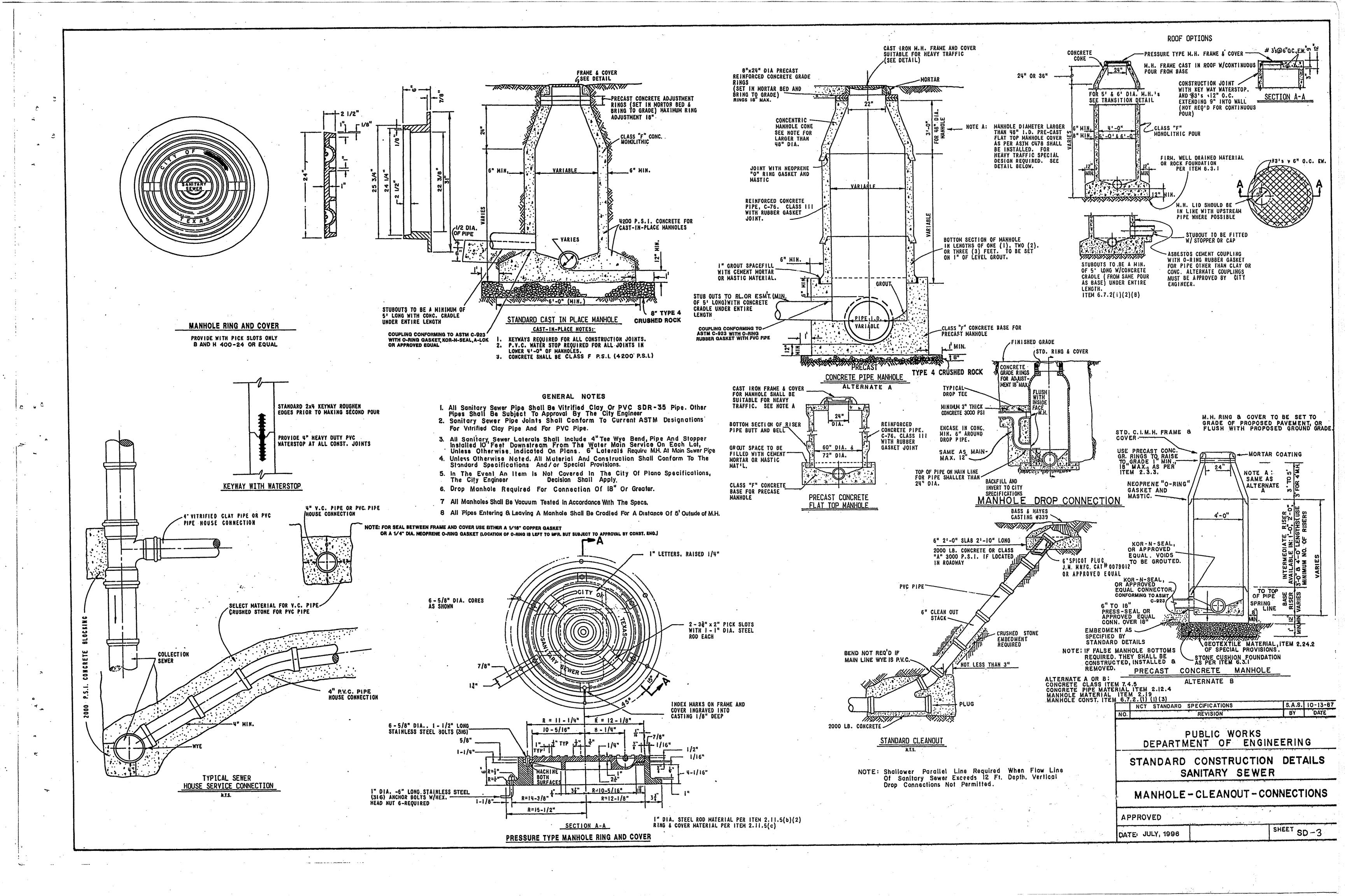
STANDARD CONSTRUCTION DETAILS
WATER

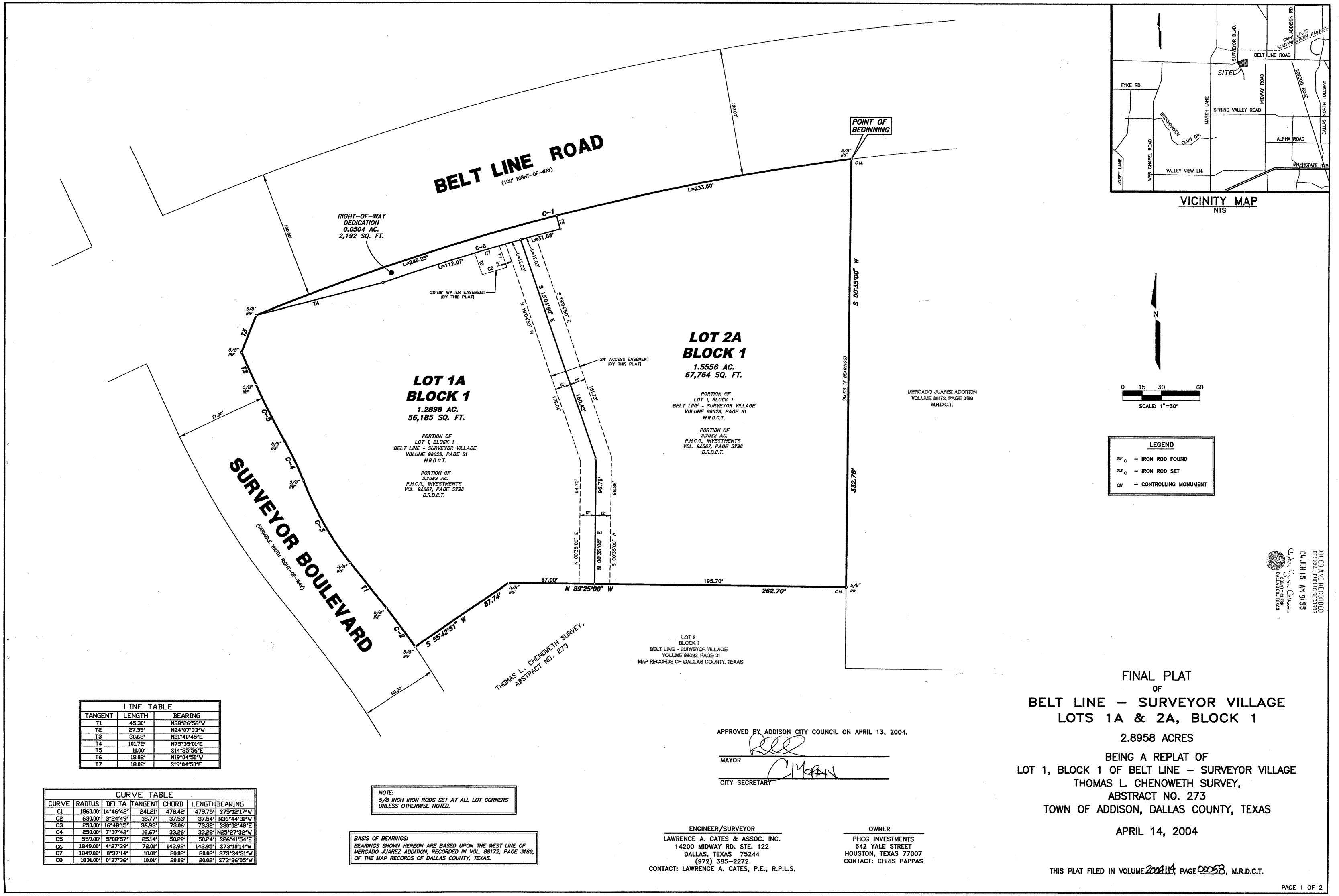
FIRE HYDRANT - SERVICE CONNECTION

PAPPROVED

DATE: JULY, 1996

S.A.S. 10-13-87
BY DATE





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#### OWNER'S CERTIFICATE

STATE OF TEXAS
COUNTY OF DALLAS

WHEREAS, PHCG INVESTMENTS, is the owner of all that certain lot, tract or parcel of land situated in the Thomas L. Chenoweth Survey, Abstract No. 273 in the Town of Addison, Texas, and being known as Lot I in Block I of Belt Line-Surveyor Village, an addition to the Town of Addison, Texas, according to the plat therof recorded in Volume 98023 at Page 3I of the Map Records of Dallas County, Texas, and being a part of the 3.7082 acre tract conveyed to P.H.C.G. Investments, by deed recorded in Volume 94067 at Page 5798 of the Deed Records of Dallas County, Texas, and being more particularly described as follows:

BEGINNING at a 5/8" iron rod found for the Northeast corner of said Lot I in Block I of Belt Line-Surveyor Village, same being the Northeast corner of said P.H.C.G investments 3.7082 acre tract and also being the Northwest corner of Mercado Juarez Addition, an addition to the Town of Addison, Texas, according to the plat thereof recorded in Volume 88172 at Page 3189 of the Map Records of Dallas County, Texas, and being more particularly described by metes and bounds as follows;

THENCE South 0° 35' 00" West along the East line of said Lot I in Block I of said Belt Line-Surveyor Village, same being the West line of said Mercado Juarez Addition for a distance of 332.78 feet to a 5/8 inch iron rod found for the Southeast corner of said Lot I in Block I of the Belt Line- Surveyor Village;

THENCE North 89° 25' 00" West along the South line of said Lot I in Block I of the Belt Line-Surveyor Village, same being the North line of Lot 2 in Block I of the Belt Line-Surveyor Village for a distance of 262.70 feet to a 5/8" iron rod found for corner;

THENCE South 55° 42′ 51" West and continuing along the South line of Lot 1 in Block 1 of the Belt Line-Surveyor Village and being common to the North line of Lot 2 in Block 1 of the Belt Line-Surveyor Village for a distance of 87.74 feet to a 5/8" iron rod found for corner in the East right of way line of Surveyor Boulevard (60 foot right of way at this point), said point being in a curve to the left having a central angle of 03° 24′ 49" with a radius of 630.00 feet and a chord bearing North 36° 44′ 31" West at a distance of 37.53 feet;

THENCE Northwesterly along said curve to the left and following along the East right of way line of Surveyor Boulevard for an arc distance of 37.54 feet to a 5/8" iron rod found for corner;

THENCE North 38° 26′ 56" West and continuing along the East right of way line of said Surveyor Boulevard for a distance of 45.30 feet to a 5/8" iron rod found for corner, said point being the beginning of a curve to the right having a central angle of 16° 48′ 15" with a radius of 250.00 feet and a chord bearing North 30° 02′ 48" West at a distance of 73.06 feet;

THENCE Northwesterly along said curve to the right and following along the East right of way line of Surveyor Boulevard for an arc distance of 73.32 feet to a 5/8" iron rod found for corner, said point being the beginning of a curve to the left having a central angle of 07° 37' 42" with a radius of 250.00 feet and a chord bearing North 25° 27' 32" West at a distance of 33.26 feet:

THENCE Northwesterly along said curve to the left for an arc distance of 33.28 feet to a 5/8" iron rod found for corner, said point being the beginning of a curve to the right having a central angle of 05° 08' 57" with a radius of 559.00 feet and a chord bearing North 26° 41' 54" West at a distance of 50.22 feet;

THENCE Northwesterly along said curve to the right and following along the East right of way line of said Surveyor Boulevard for a distance of 50.24 feet to a 5/8" iron rod found fo corner:

THENCE North 24° 07' 33" West and continuing along the East right of way line of Surveyor Boulevard for a distance of 27.55 feet to a 5/8" iron rod found for corner, said point being the beginning of a cut off line for Bolt Line Board.

THENCE North 21° 40′ 45" East said cut-off line for Belt Line Road for a distance of 30.68 feet to a 5/8" iron rod found for corner in the South right of way line of Belt Line Road, said poin being in a curve to the right having a central angle of 14° 46′ 42" and a radius of 1860.00 feet and a chord bearing North 75° 12′ 17" East at a distance of 478.42 feet to the POINT OF BEGINNING AND CONTAINING 2.8958 ACRES OF LAND, more or less.

#### OWNER'S DEDICATION

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

THAT PHCG INVESTMENTS, DOES HEREBY ADOPT THIS PLAT DESIGNATING THE HEREINABOVE PROPERTY AS BELT LINE - SURVEYOR VILLAGE, AN ADDITION TO THE TOWN OF ADDISON, TEXAS AND, SUBJECT TO THE CONDITIONS, RESTRICTIONS AND RESERVATIONS STATED HEREINAFTER, OWNER DEDICATES TO THE PUBLIC USE FOREVER THE STREETS AND ALLEYS SHOWN THEREON.

THE EASEMENTS SHOWN ON THIS PLAT ARE HEREBY RESERVED FOR THE PURPOSES AS INDICATED, INCLUDING, BUT NOT TO LIMITED TO, THE INSTALLATION AND MAINTENANCE OF WATER, SANITARY SEWER, STORM SEWER, DRAINAGE, ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION. OWNER SHALL HAVE THE RIGHT TO USE THESE EASEMENTS, PROVIDED HOWEVER, THAT IT DOES NOT UNREASONABLY INTERFERE OR IMPEDE WITH THE PROVISION OF THE SERVICE TO OTHERS. SAID UTILITY EASEMENTS ARE HEREBY BEING RESERVED BY MUTUAL USE AND ACCOMMODATION OF ALL PUBLIC UTILITIES USING OR DESIRING TO USE THE SAME. AN EXPRESS EASEMENT OF INGRESS AND EGRESS IS HEREBY EXPRESSLY GRANTED ON, OVER AND ACROSS ALL SUCH EASEMENTS FOR THE BENEFIT OF THE PROVIDER FO SERVICES FOR WHICH EASEMENTS ARE GRANTED

ANY DRAINAGE AND FLOODWAY EASEMENT SHOW HEREON IS HEREBY DEDICATED TO THE PUBLIC'S USE FOREVER, BUT INCLUDING THE FOLLOWING COVENANTS WITH REGARDS TO MAINTENANCE RESPONSIBILITIES. THE EXISTING CHANNELS OR CREEKS TRAVERSING THE DRAINAGE AND FLOODWAY EASEMENT WILL REMAIN AS AN OPEN CHANNEL, UNLESS REQUIRED TO BE ENCLOSED BY ORDINANCE, AT ALL TIMES AND SHALL BE MAINTAINED BY THE INDIVIDUAL OWNERS OF THE LOT OR LOTS THAT ARE TRAVERSED BY OR ADJACENT TO THE DRAINAGE AND FLOODWAY EASEMENT. THE CITY WILL NOT BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF SAID CREEK OR CREEKS OR FOR ANY DAMAGE OR INJURY OF PRIVATE PROPERTY OR PERSON THAT RESULTS FROM THE FLOW OF WATER ALONG SAID CREEK, OR FOR THE CONTROL OF EROSION. NO OBSTRUCTION TO THE NATURAL FLOW OF WATER RUN-OFF SHALL BE PERMITTED BY CONSTRUCTION OF ANY TYPE BUILDING, FENCE OR ANY OTHER STRUCTURE WITHIN THE DRAINAGE AND FLOODWAY EASEMENT. PROVIDED, HOWEVER, IT IS UNDERSTOOD THAT IN THE EVENT IT BECOMES NECESSARY FOR THE CITY TO CHANNELIZE OR CONSIDER ERECTING ANY TYPE OF DRAINAGE STRUCTURE IN ORDER TO IMPROVE THE STORM DRAINAGE. THEN IN SUCH EVENT, THE CITY SHALL HAVE THE RIGHT, BUT NOT THE OBLIGATION, TO ENTER UPON THE DRAINAGE AND FLOODWAY EASEMENT AT ANY POINT, OR POINTS, WITH ALL RIGHTS OF INGRESS AND EGRESS EGRESS TO INVESTIGATE, SURVEY, ERECT, CONSTRUCTION OR MAINTAIN ANY DRAINAGE FACILITY DEEMED NECESSARY BY THE CITY FOR MAINTENANCE OR EFFICIENCY OF ITS RESPECTIVE SYSTEM OR SERVICE.

WATER MAIN AND SANITARY SEWER EASEMENTS SHALL ALSO INCLUDE ADDITIONAL AREA OF WORKING SPACE FOR CONSTRUCTION AND MAINTENANCE OF THE THE SYSTEMS. ADDITIONAL EASEMENT AREA AREA IS ALSO CONVEYED FOR INSTALLATION AND MAINTENANCE OF MANHOLES, CLEANOUTS, FIRE HYDRANTS, WATER SERVICE AND SEWER SERVICES FROM THE MAIN TO CURB OR PAVEMENT LINE, AND THE DESCRIPTIONS OF SUCH ADDITIONAL EASEMENTS HEREIN GRANTED SHALL BE DETERMINED BY THEIR LOCATIONS AS INSTALLED.

THIS PLAT IS APPROVED SUBJECT TO ALL PLATTING ORDINANCES, RULES, REGULATIONS AND RESOLUTIONS OF THE TOWN OF ADDISON, TEXAS.

WITNESS, MY HAND AT DALLAS, TEXAS THIS THE ALST DAY OF may, 2004.

PHCG INVESTMENTS

BY: LOW H. Rappas
Pete H. Pappas

STATE OF TEXAS COUNTY OF HARRES

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED PERSONALLY KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE ABOVE AND FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION EXPRESSED AND IN THE CAPACITY THEREIN STATED.

UNDER MY HAND AND SEAL OF OFFICE ON THIS THE \_\_\_\_\_\_ DAY OF \_\_\_\_\_\_, 20

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS



ENGINEER/SURVEYOR

LAWRENCE A. CATES & ASSOC. INC.

14200 MIDWAY RD. STE. 122

DALLAS, TEXAS 75244

(972) 385-2272

CONTACT: LAWRENCE A. CATES, P.E., R.P.L.S.

OWNER

PHCG INVESTMENTS
642 YALE STREET
HOUSTON, TEXAS 77007
CONTACT: CHRIS PAPPAS

#### SURVEYOR'S CERTIFICATION

I, LAWRENCE A. CATES, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT I HAVE PREPARED THIS PLAT FROM AN ACTUAL ON THE GROUND SURVEY OF THE LAND, AND THE MONUMENTS SHOWN HEREON WERE FOUND AND/OR PLACED UNDER MY PERSONAL SUPERVISION IN ACCORDANCE WITH THE PLATTING RULES AND REGULATIONS OF THE CITY PLAN COMMISSION OF THE TOWN OF ADDISON, TEXAS.

yadan Q. C.

LAWRENCE A. CATES
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 3717

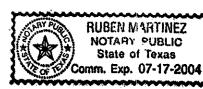


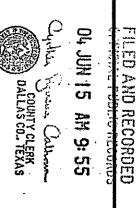
STATE OF TEXAS COUNTY OF DALLAS

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED LAWRENCE A. CATES, PERSONALLY KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE ABOVE AND FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION EXPRESSED AND IN THE CAPACITY THEREIN STATED.

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

7-17-04 EXPIRATION





FINAL PLAT

BELT LINE - SURVEYOR VILLAGE LOTS 1A & 2A, BLOCK 1

2.8958 ACRES

BEING A REPLAT OF

LOT 1, BLOCK 1 OF BELT LINE — SURVEYOR VILLAGE

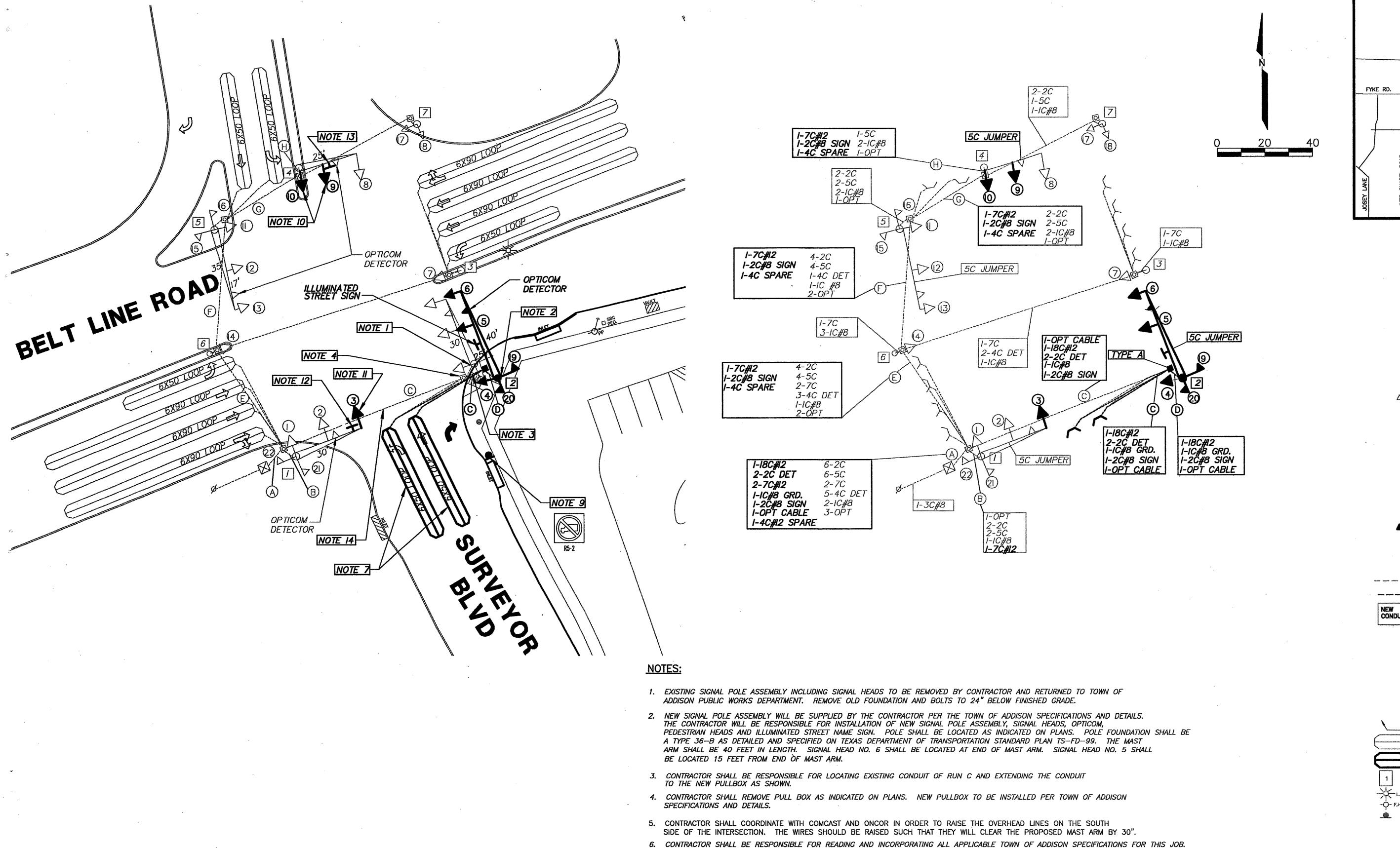
THOMAS L. CHENOWETH SURVEY,

ABSTRACT NO. 273

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

MAY 18, 2004

THIS PLAT FILED IN VOLUME 2004 11 PAGE 20058 M.R.D.C.T.

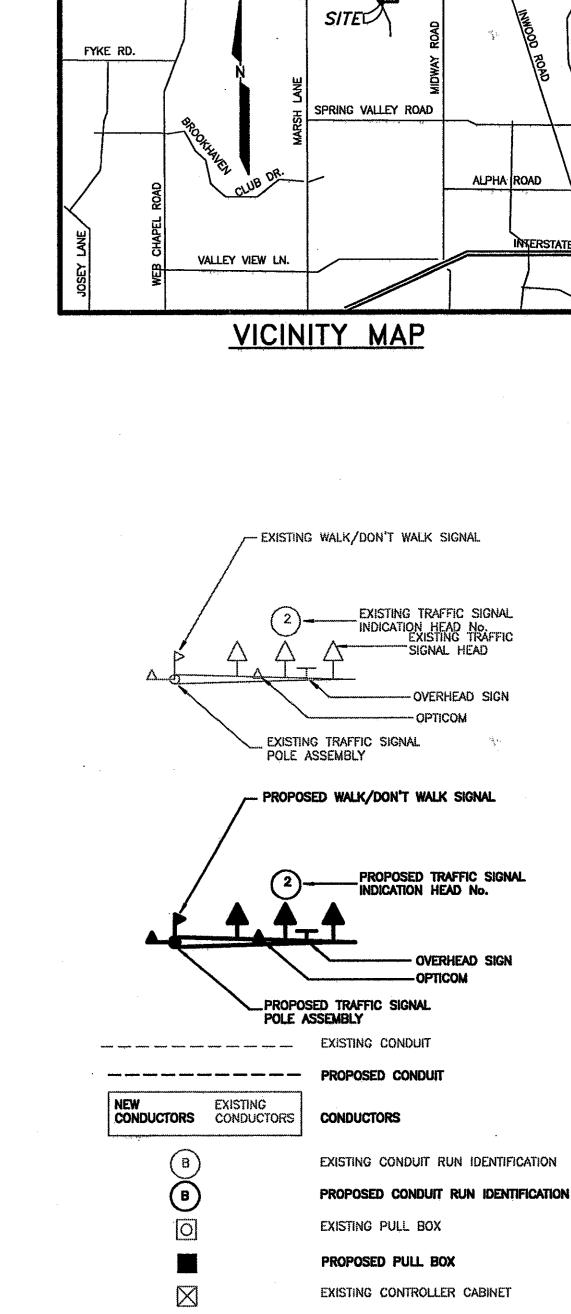


SIGNAL HEAD ARRAYS							
HEAD NUMBERS	4,5,6	3,10	19,20				
LENS SIZE	12"	12"					
TYPE	LED	LED	LED PED.				
***************************************	R	R	DW				
LENS	. Y	Y	WALK				
CONFIGURATION	G	G	$\times$				
	$\times$	Y/G	$\times$				
TOTAL NUMBER OF UNITS	3	2	2				

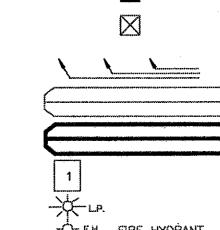
SIGNAL HEADS

CONDUIT/CONDUCTOR SCHEDULE									
RUN	PVC CONDUIT T-TRENCH B-BORE	18C#12	2C(SH) (DET.)	, ,,	2C #8 (SIGNS.)	4C#12 (SPARE)	7C#12	OPT CABLE	
Α	EXIST.	20'	40'	201	20'	20'	40'	20	
В	EXIST.			·			70'		
C(EXIST.)	EXIST.	95'	190'	95'	95'			95'	
С	2"T -10'	20'	40'	20'	20'			20'	
D	2"T -5'	65'		50'	50'			65'	
E	EXIST.				60'	60'	60'		
F	EXIST.				70'	70'	70'		
G	EXIST.		-		50'	50'	50'		
Н	EXIST.			-	50'	50'	20'		
TOTAL	2"T -15'	200'	270'	185'	415'	250'	310'	200'	

- 7. REMOVE EXISTING LOOP DETECTORS. NEW LOOP DETECTORS WILL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR PER THE TOWN OF ADDISON SPECIFICATIONS AND DETAILS.
- 8. DUE TO THE ADDITION OF LEFT TURN PHASING FOR NORTHBOUND AND SOUTHBOUND APPROACHES, SIGNAL TIMING MODIFICATIONS WILL BE REQUIRED BY TOWN OF ADDISON'S TRAFFIC ENGINEERING CONSULTANT.
- 9. RELOCATE EXISTING "NO TRUCKS" SIGN (MUTCD R5-2, 24"X24") TO LOCATION AS INDICATED ON PLANS.
- 10. RELOCATE POLE MOUNTED, 3-SECTION SIGNAL HEAD FOR NORTHBOUND APPROACH 15 FEET FROM END OF MAST ARM AS SHOWN FOR SIGNAL HEAD NO. 9. THE CONTRACTOR WILL SUPPLY A FOUR-SECTION SIGNAL HEAD PER TOWN OF ADDISON SPECIFICATIONS AND DETAILS. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION OF NEW FOUR-SECTION SIGNAL HEAD NO. 10 ON POLE NO. 4.
- 11. REMOVE POLE MOUNTED, 3-SECTION SIGNAL HEAD NO. 3 AND RETURN TO TOWN OF ADDISON PUBLIC WORKS DEPARTMENT. THE CONTRACTOR WILL SUPPLY A FOUR-SECTION SIGNAL HEAD PER TOWN OF ADDISON SPECIFICATIONS AND DETAILS. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION OF NEW FOUR-SECTION SIGNAL HEAD NO. 3 AT END OF MAST ARM ON POLE NO. 1.
- 12. CONTRACTOR SHALL INSTALL LEFT TURN YIELD ON GREEN (MUTCD R10-12, 30"X36") ON POLE NO. 4 BELOW SIGNAL HEAD NO. 10 AND ON POLE NO. 1 NEXT TO SIGNAL HEAD NO. 3.
- 13. CONTRACTOR SHALL INSTALL INTERSECTION LANE CONTROL SIGN (TX MUTCD R3-8B, 36"X30").
- 14. CONTRACTOR SHALL INSTALL NEW CONDUCTORS FROM CONTROLLER CABINET TO NEW POLE NO. 2 AND EXISTING POLE NO. 4 PER THE CONDUIT/CONDUCTOR SCHEDULE.



BELT LINE ROAD





LOOP WIRE LOCATIONS

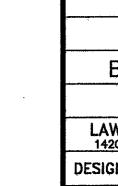
NEW QUADRAPOLE

POLE DESIGNATION

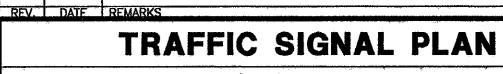
LIGHT POLE

FIRE HYDRANT

EXISTING LOOP DETECTOR



90605

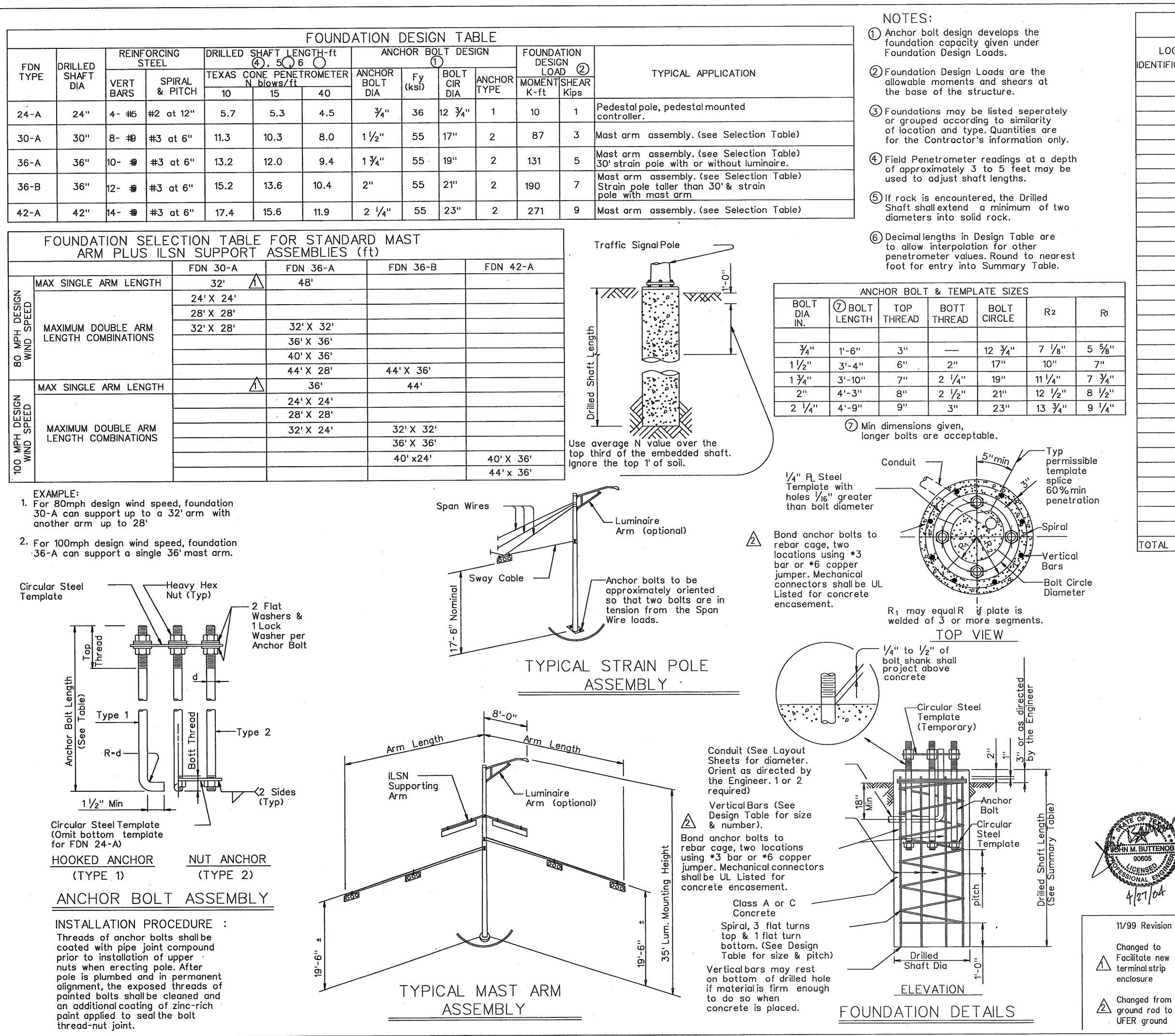


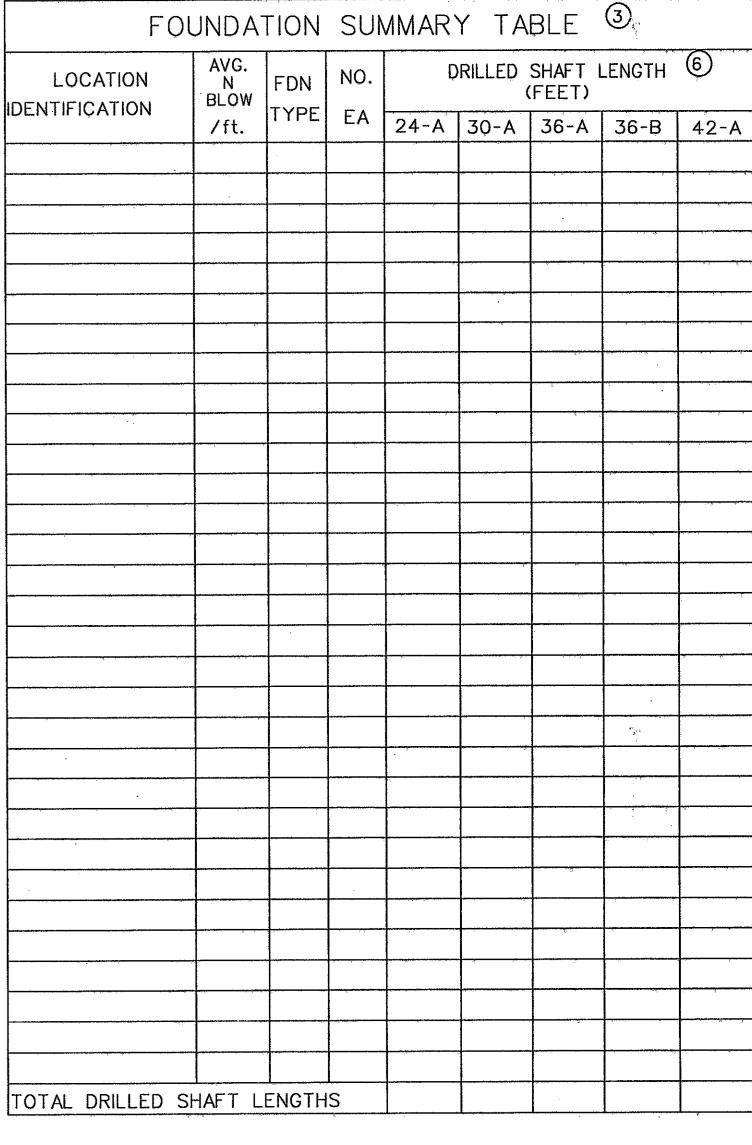
SOUTHTRUST BANK

BELT LINE - SURVEYOR VILLAGE ADDITION

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TOWN	OF	ADDISON,	<b>TEXAS</b>

	•	VIII 0	ت مدر ،				
LAWRENCE A. CATES & ASSOC., LLP CONSULTING ENGINEERS 14200 MIDWAY ROAD, SUITE 122 (972) 385-2272 CONSULTING ENGINEERS DALLAS, TEXAS							
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.	
JMB	КРН	APRIL-04	1"=20'	JMB		T-1	





#### GENERAL NOTES:

Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals and interim revisions thereto.

Reinforcing steel shall conform to Item 440.

Concrete shall be Class A or C.

Threads for anchor bolts and nuts shall be rolled or cut threads of unified national coarse thread series except for A193B7 bolts which shall have 8 pitch thread series. Bolts and nuts shall have Class 2A and 2B fit tolerances.
Galvanized nuts shall be tapped after galvanizing.
Anchor bolts that are 1" in diameter or less

shall conform to ASTM A36. Anchor bolts larger than 1" in diameter shall conform to A36M55 in accordance with the Item, "Anchor Bolts" or ASTM A193B7 or A687. Galvanize or coat with zinc-rich paint a minimum of the upper 14 inches of all anchor bolts unless otherwise noted. Exposed nuts shall be galvanized or coated with zinc-rich paint. Washers shall be galvanized. Templates and embeded nuts need not be galvanized.



### STANDARD PLANS

Texas Department of Transportation Traffic Operations Division

TRAFFIC SIGNAL POLE FOUNDATION

TS-FD-99

DW:- MAO/MMF CK:- JSY/TEB ck:- JSY © TxDOT August 1995 DN:- MS STATE FEDERAL DISTRICT REGION FEDERAL AID PROJECT SHEET 5-96 6 11-99 HIGHWAY CONTROL JOB COUNTY

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