

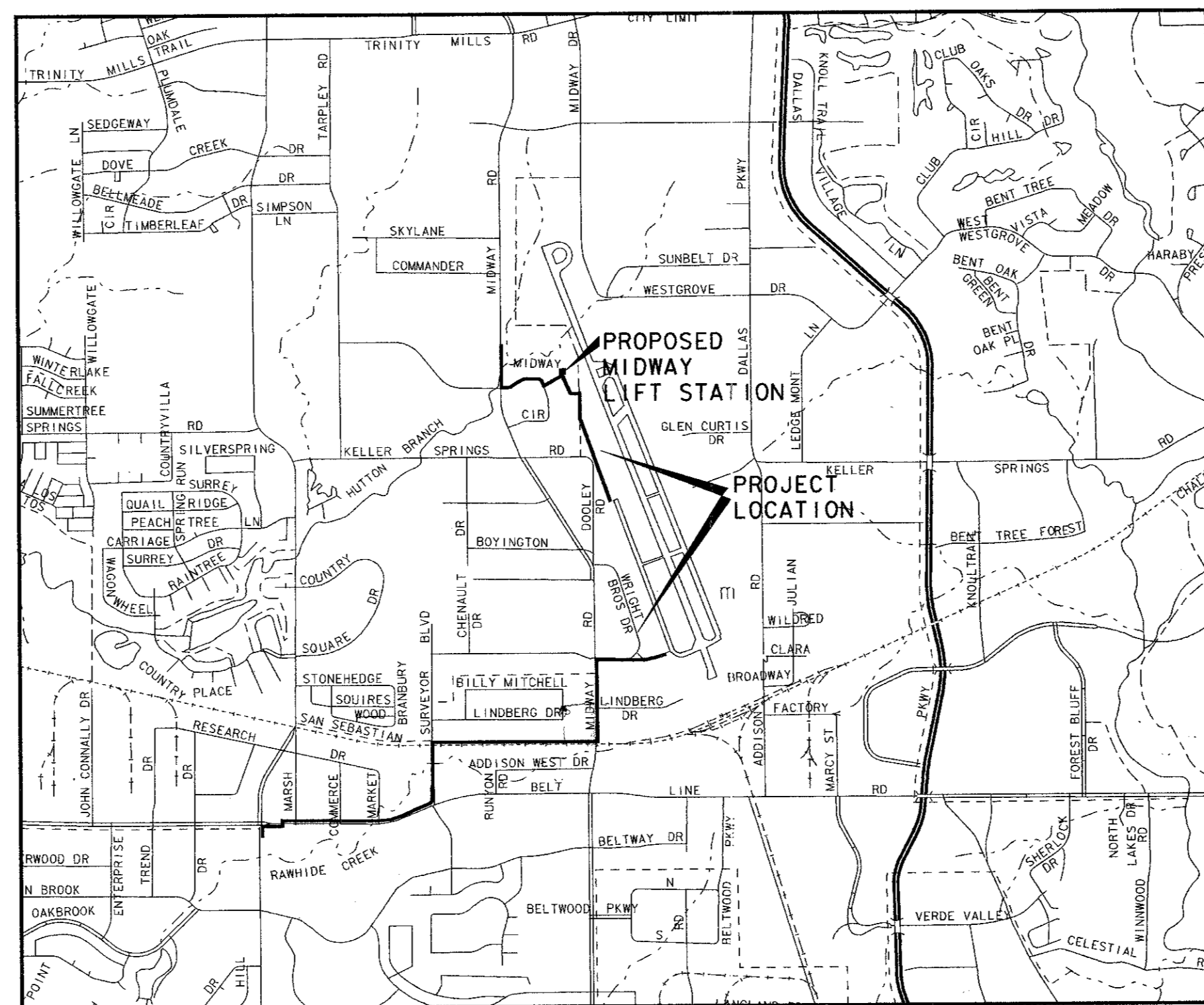
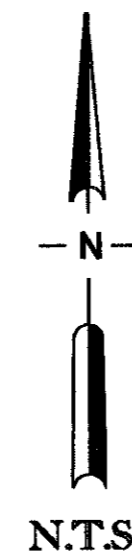
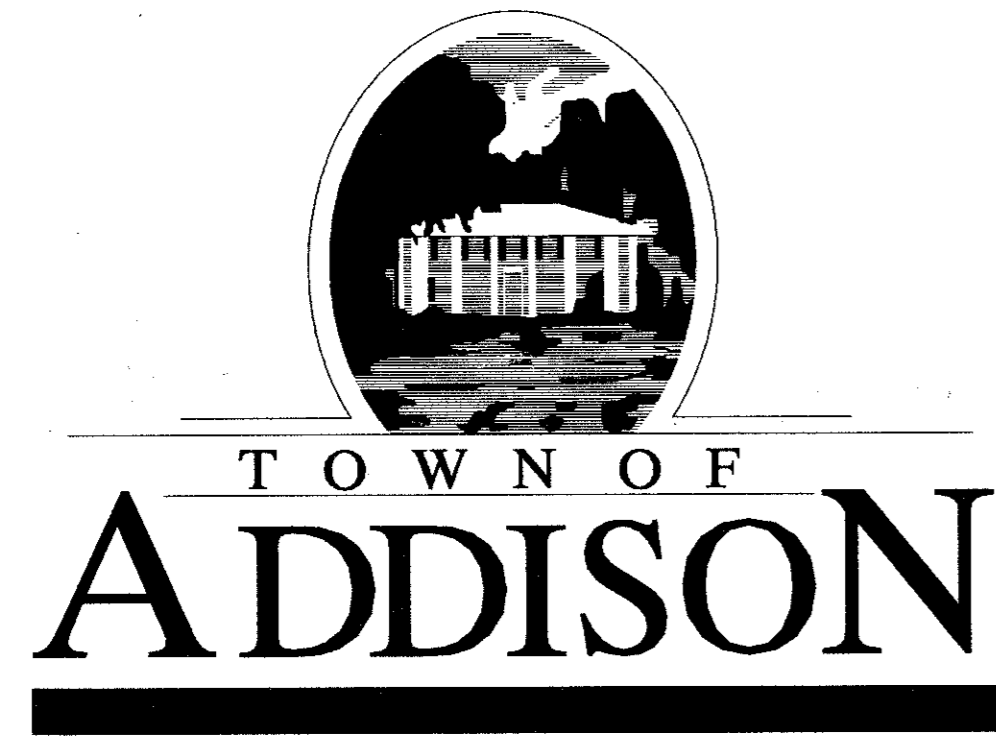
# TOWN OF ADDISON, TEXAS

# MIDWAY/ BELT LINE SEWER IMPROVEMENTS

PHASE II

FROM MARSH LANE & BELTLINE RD. TO ADDISON AIRPORT

APRIL 5, 1996

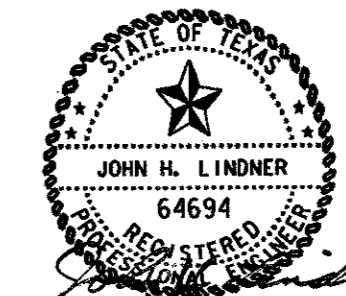
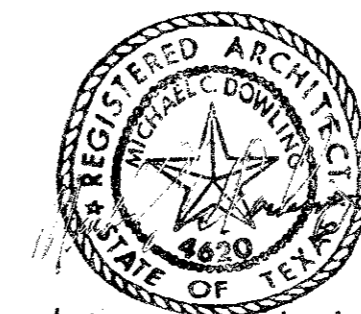


VICINITY MAP

SUBMITTED BY:  
 CARTER & BURGESS, INC. *John H. Linder* 6/12/96  
 John Linder - Project Manager Date

APPROVED BY:  
 TOWN OF ADDISON \_\_\_\_\_  
 John Baumgartner - Director of Public Works Date

CONSTRUCTION SET  
 ISSUED BY  
 TOWN OF ADDISON  
 PUBLIC WORKS DEPARTMENT  
 NAME: *David N. [Signature]* DATE: 7/19/96



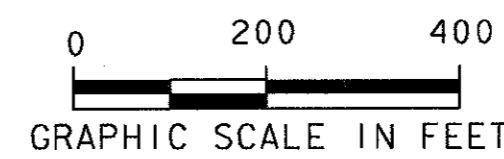
**Carter Burgess**  
 Consultants in Engineering, Architecture,  
 Planning and the Environment  
 CARTER & BURGESS, INC.  
 7950 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961

# INDEX OF SHEETS

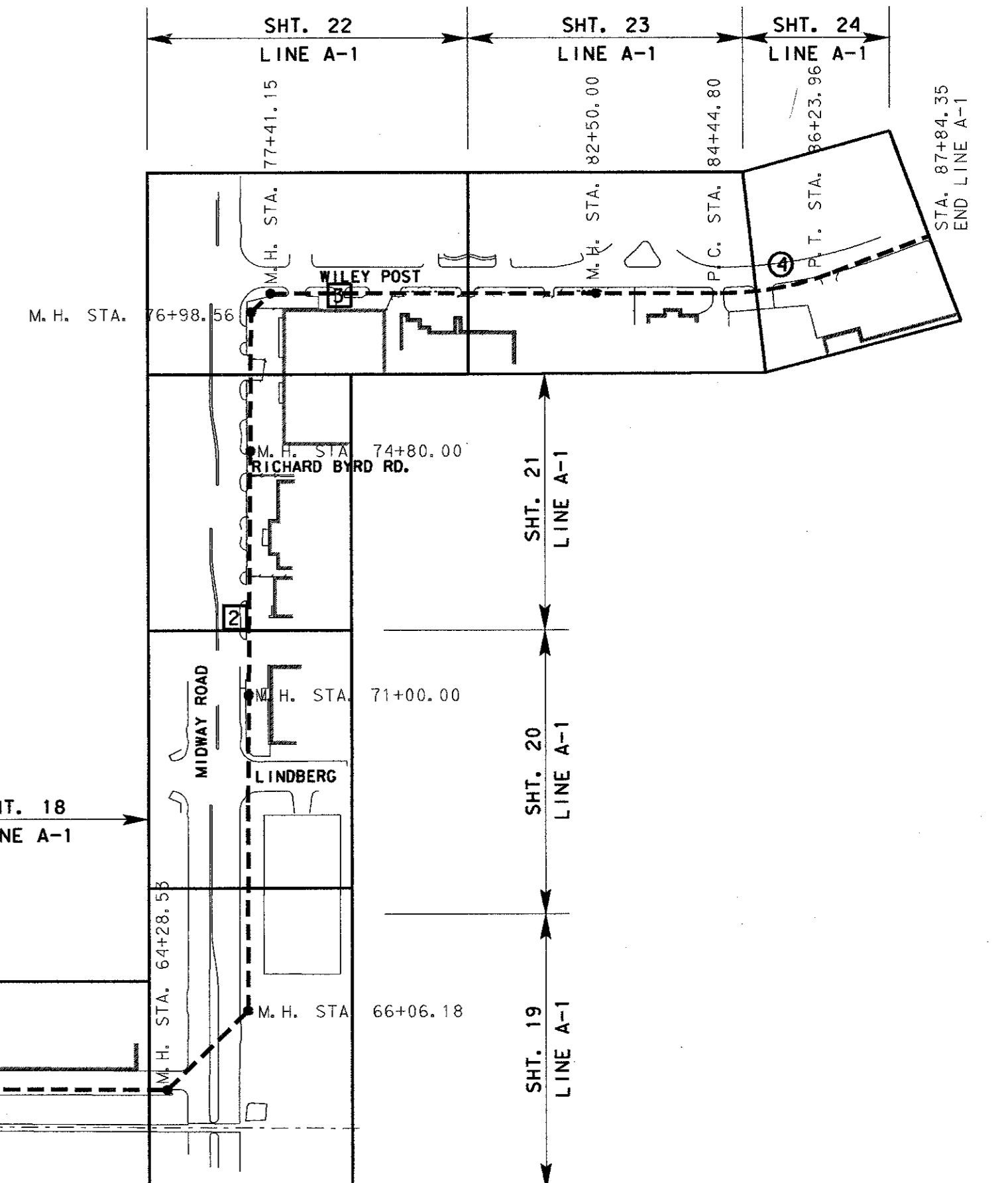
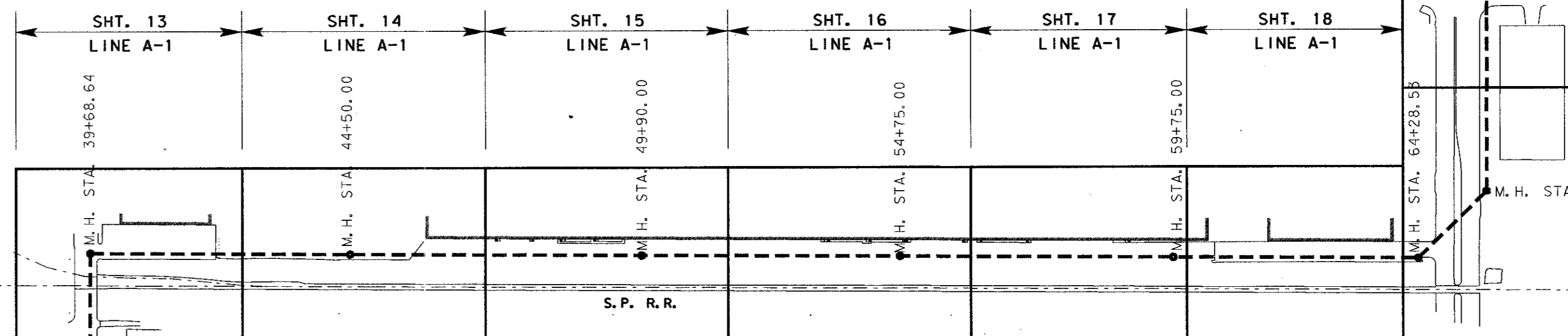
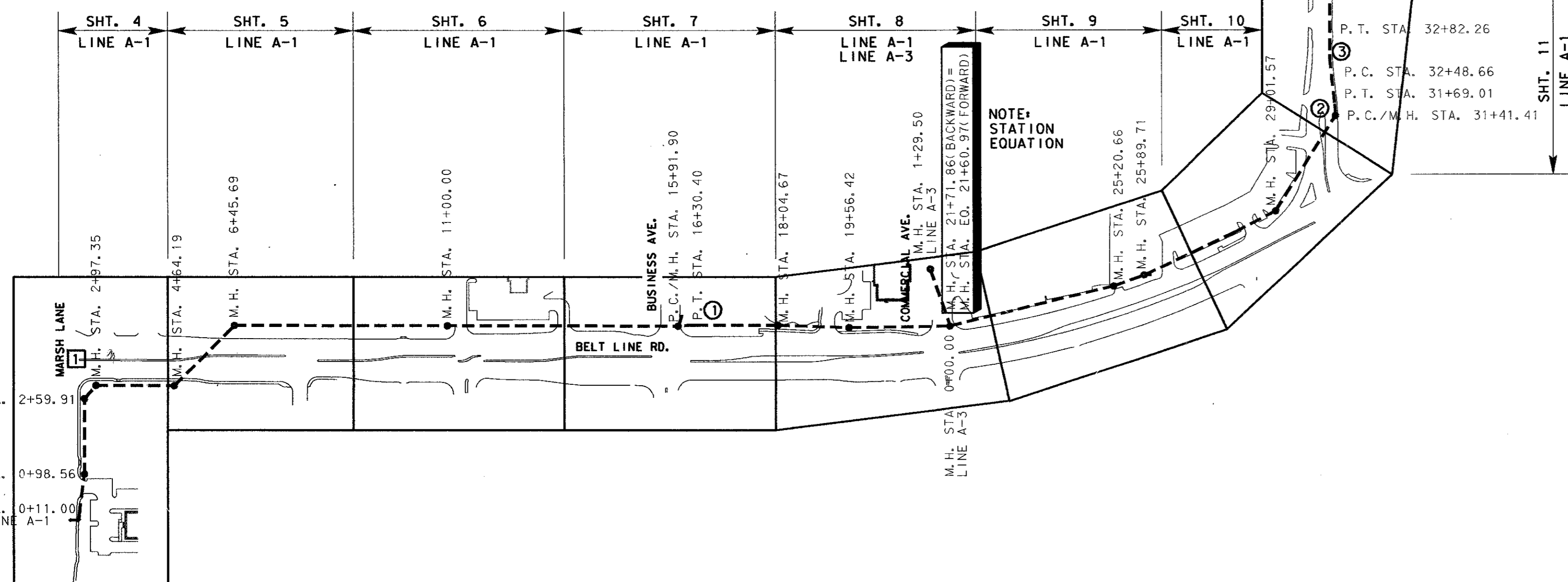
SHEET NO.	DRAWING TITLE
1	COVER SHEET
2	INDEX AND SHEET LAYOUT LINES A-1 & A-3
3	SHEET LAYOUT LINES A-2, B & C
4	GENERAL NOTES
5	PLAN & PROFILE STA. 0+00 TO 4+50 LINE A-1
6	PLAN & PROFILE STA. 4+50 TO 9+00 LINE A-1
7	PLAN & PROFILE STA. 9+00 TO 13+50 LINE A-1
8	PLAN & PROFILE STA. 13+50 TO 18+00 LINE A-1
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11	PLAN & PROFILE STA. 22+50 TO 27+00 LINE A-1
12	PLAN & PROFILE STA. 27+00 TO 31+00 LINE A-1
13	PLAN & PROFILE STA. 31+00 TO 34+50 LINE A-1
14	PLAN & PROFILE STA. 34+50 TO 38+00 LINE A-1
15	PLAN & PROFILE STA. 38+00 TO 42+50 LINE A-1
16	PLAN & PROFILE STA. 42+50 TO 47+00 LINE A-1
17	PLAN & PROFILE STA. 47+00 TO 51+50 LINE A-1
18	PLAN & PROFILE STA. 51+50 TO 56+00 LINE A-1
19	PLAN & PROFILE STA. 56+00 TO 60+00 LINE A-1
20	PLAN & PROFILE STA. 60+00 TO 64+00 LINE A-1
21	PLAN & PROFILE STA. 64+00 TO 68+00 LINE A-1
22	PLAN & PROFILE STA. 68+00 TO 72+00 LINE A-1
23	PLAN & PROFILE STA. 72+00 TO 76+00 LINE A-1
24	PLAN & PROFILE STA. 76+00 TO 80+50 LINE A-1
25	PLAN & PROFILE STA. 80+50 TO 85+00 LINE A-1
26	PLAN & PROFILE STA. 85+00 TO 87+84.35 LINE A-1
27	PLAN & PROFILE STA. 115+37.35 TO 119+50 LINE A-2
28	PLAN & PROFILE STA. 119+50 TO 124+00 LINE A-2
29	PLAN & PROFILE STA. 124+00 TO 128+50 LINE A-2
30	PLAN & PROFILE STA. 128+50 TO 132+00 LINE A-2
31	PLAN & PROFILE STA. 132+00 TO 136+50 LINE A-2
32	PLAN & PROFILE STA. 136+50 TO 139+95.27 LINE A-2
33	PLAN & PROFILE STA. 0+90 TO 5+00 LINE B
34	PLAN & PROFILE STA. 5+00 TO 9+00 LINE B
35	PLAN & PROFILE STA. 9+00 TO 13+50 LINE B
36	PLAN & PROFILE STA. 13+50 TO 17+68.31 LINE B
37	PLAN & PROFILE STA. 0+00 TO 3+37.66 LINE C
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54	LIFT STATION - HVAC FLOOR PLANS
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64	LIFT STATION - IRRIGATION SITE PLAN
65	LIFT STATION - IRRIGATION DETAILS

### BENCH MARKS

- BM NO. 9A  
SQUARE BOX CUT IN NOSE OF MEDIAN IN CENTERLINE BELTLINE DRIVE APPROXIMATELY 50 FEET EAST OF CENTERLINE INTERSECTION WITH MARSH LANE. ELEVATION - 571.24
- BM NO. 38  
"X" CUT IN BRAK-O PARKING LOT APPROXIMATELY 16 FEET EAST OF THE EAST RECESSED CURB LINE OF MIDWAY RD. AND APPROXIMATELY 550 FEET SOUTH OF THE CENTERLINE INTERSECTION OF WILEY POST RD. AND MIDWAY RD. ELEVATION - 624.95
- BM NO. P100  
"X" CUT IN CONCRETE ENTRANCE OF PARKING LOT SOUTH SIDE OF WILEY POST ROAD APPROXIMATELY 280 FEET EAST OF THE CENTERLINE OF MIDWAY ROAD. ELEVATION - 635.26



CURVE NO.	Δ	R	T	L
1	4° 24' 46"	500.00'	19.26'	38.50'
2	5° 16' 16"	300.00'	13.81'	27.60'
3	6° 25' 01"	300.00'	16.82'	33.60'
4	20° 31' 49"	500.00'	90.56'	179.16'

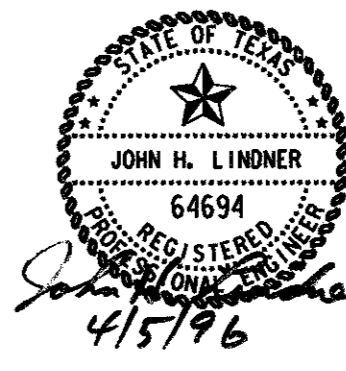
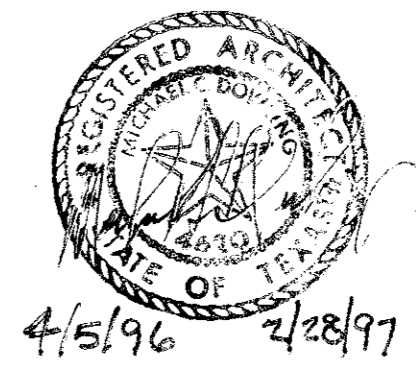


STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+11.00	BEGIN PIPE	468255.23	2197768.81
0+98.56	M.H.	468342.09	2197779.85
2+59.91	M.H.	468503.44	2197779.79
2+97.35	M.H.	468531.59	2197804.47
4+64.19	M.H.	468531.14	2197971.31
6+45.69	M.H.	468659.48	2198099.65
11+00.00	M.H.	468658.76	2198553.96
15+91.90	M.H./P.C.	468657.97	2199045.86
16+30.40	P.T.	468660.30	2199084.28
18+04.67	M.H.	468659.78	2199258.55
19+56.42	M.H.	468654.77	2199410.21
21+71.86	M.H.	468657.50	2199625.63
21+60.97	M.H./STA. EO.	468657.50	2199625.63
25+20.66	M.H.	468743.17	2199974.98
25+89.71	M.H.	468767.27	2200039.68
29+01.57	M.H.	468902.69	2200320.55
31+41.41	M.H./P.C.	469105.72	2200448.23
31+69.01	P.T.	469133.25	2200446.52
32+48.66	P.C.	469212.44	2200437.95
32+82.26	P.T.	469245.98	2200436.20
35+72.53	M.H.	469536.24	2200437.38
36+82.90	M.H.	469646.39	2200430.32
39+68.64	M.H.	469932.13	2200431.51
44+50.00	M.H.	469929.66	2200912.87
49+90.00	M.H.	469926.83	2201452.86
54+75.00	M.H.	469924.42	2201931.34
59+75.00	M.H.	469921.82	2202437.84
64+28.53	M.H.	469919.49	2202891.37
66+06.18	M.H.	470044.46	2203017.63
71+00.00	M.H.	470538.27	2203020.00
74+80.00	M.H.	470918.27	2203023.32
76+98.56	M.H.	471136.82	2203025.06
77+41.15	M.H.	4471166.79	2203055.17
82+50.00	M.H.	471166.50	2203564.03
84+44.80	P.C.	471166.35	2203758.82
86+23.96	P.T.	471198.00	2203934.20
87+84.35	END	471254.15	2204084.44

STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+00.00	M.H.	468657.50	2199625.63
1+29.50	M.H.	468780.13	2199584.01

NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
MIDWAY/BELTLINE SANITARY SEWER  
PHASE II  
INDEX AND SHEET LAYOUT  
LINES A-1 AND A-3

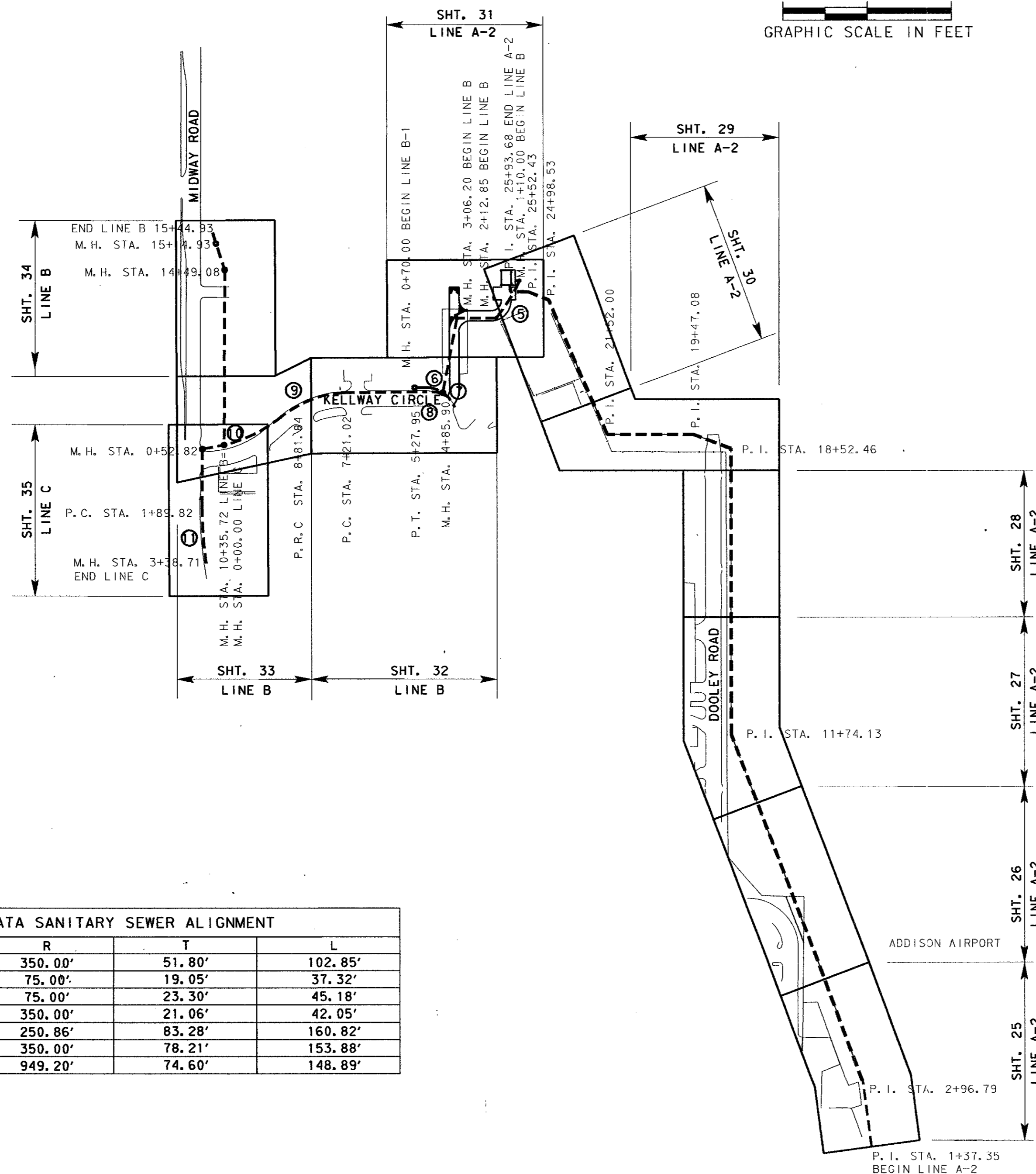
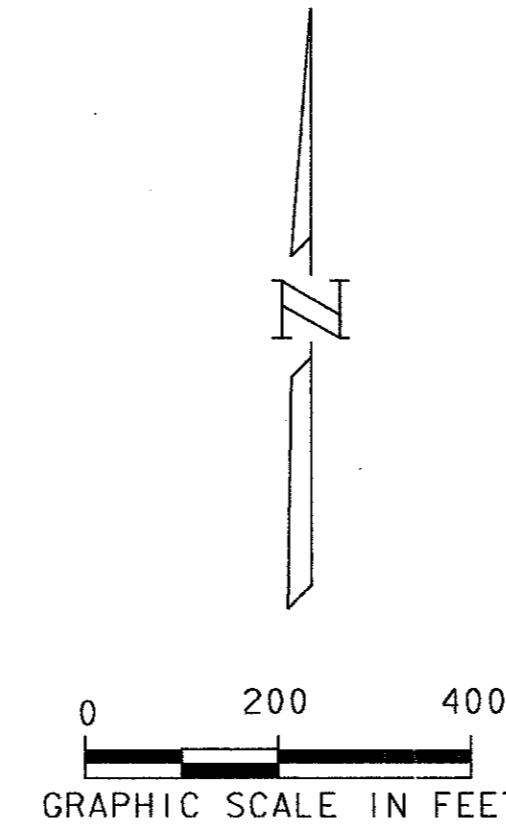


**Carter & Burgess**  
Consultants in Engineering, Architecture,  
Planning and the Environment  
CARTER & BURGESS, INC.  
7950 ELMBROOK DRIVE, SUITE 250  
DALLAS, TX 75247-4961

Unit	Scale	1"=200'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet 1 of 63

BENCH MARKS

- 4 BM NO. P114  
A 3/8" IRON ROD STAMPED "CARTER & BURGESS" APPROXIMATELY 1000 FEET NORTH OF THE CENTERLINE INTERSECTION OF WILEY POST RD. AND MIDWAY RD. AND APPROXIMATELY 3 FEET WEST OF THE WEST CURB LINE OF MIDWAY RD. ELEVATION - 642.97
- 5 BM NO. P105  
A 3/8" IRON ROD STAMPED "CARTER & BURGESS" SITUATED ON ADDISON AIRPORT PROPERTY, APPROXIMATELY 225 FEET EAST OF THE CENTERLINE OF DOOLEY RD. AND APPROXIMATELY 200 FEET NORTH OF THE CENTERLINE OF KELLER SPRINGS RD. ELEVATION - 638.04
- 6 BM NO. 1000  
SQUARE BOX CUT APPROXIMATELY 450 FEET NORTH OF THE CENTERLINE INTERSECTION OF MIDWAY RD. AND KELLWAY CIRCLE AND ON TOP OF EAST CURB LINE OF MIDWAY RD. ELEVATION - 607.10



CURVE NO.	Δ	R	T	L
5	16° 50' 15"	350.00'	51.80'	102.85'
6	28° 30' 39"	75.00'	19.05'	37.32'
7	34° 30' 45"	75.00'	23.30'	45.18'
8	6° 53' 04"	350.00'	21.06'	42.05'
9	36° 43' 56"	250.86'	83.28'	160.82'
10	25° 11' 28"	350.00'	78.21'	153.88'
11	8° 59' 15"	949.20'	74.60'	148.89'

STATION	POINT	COORDINATES	
		NORTHING	EASTING
1+37.35	P. I.	473800.21	2203175.96
2+96.79	P. I.	473957.94	2203155.02
11+74.13	P. I.	474778.66	2202844.94
18+52.46	P. I.	475456.98	2202845.20
19+47.08	P. I.	475490.50	2202756.72
21+52.00	P. I.	475490.50	2202551.80
24+98.53	P. I.	475808.05	2202413.06
25+52.43	P. I.	475827.72	2202362.87
25+93.68	P. I.	475827.69	2202413.06

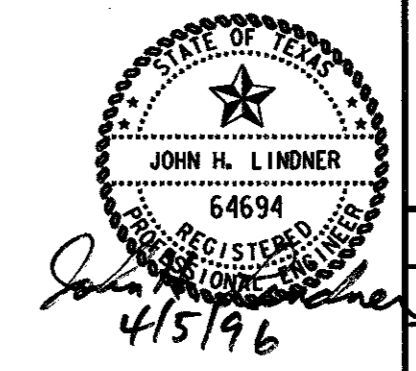
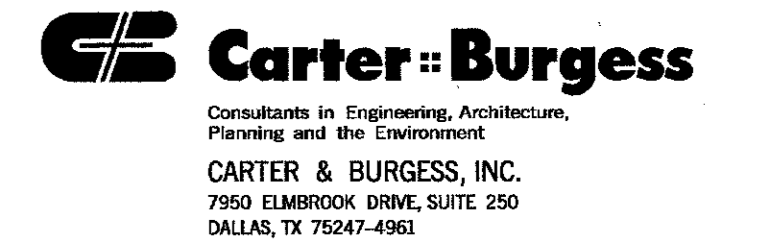
STATION	POINT	COORDINATES	
		NORTHING	EASTING
1+10.00	M. H.	475853.66	2202343.27
2+12.85	M. H.	475766.93	2202288.67
3+06.20	M. H.	475766.87	2202195.32
4+85.90	M. H./P. C.	475590.40	2202161.38
5+27.95	P. T.	475592.40	2202119.40
7+21.02	P. C.	475590.01	2201926.35
8+81.84	M. H.	475534.07	2201778.49
10+35.72	M. H./P. T.	475465.98	2201641.87
14+49.08	M. H.	475879.34	2201643.02
15+14.93	M. H.	475942.04	2201622.89
15+44.93	M. H.	475971.82	2201626.52

STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+00.00	M. H./P. C.	475590.40	2202161.38
0+37.32	P. T.	475602.83	2202126.60
0+70.00	M. H.	475602.59	2202094.37

STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+00.00	M. H.	475465.98	2201641.87
0+52.82	M. H.	475456.20	2201589.96
1+89.82	P. C.	475319.87	2201588.98
3+38.71	EX. M. H.	475171.56	2201600.22

4			
3			
2			
1			
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 SHEET LAYOUT  
 LINES A-2, B & C



Unit	Scale	1"=200'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet 2 of 63

GENERAL NOTES

- No separate pay for items covered on this sheet, unless specifically established in the proposal section of the project specifications. Include cost of same in the contract unit price for item of which work is a component or as incidental to other work.
- All construction shall conform to the requirements as stated in the latest edition of the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (NCTCOG).
- Contractor shall coordinate with other contractors of any trade or discipline working adjacent to the project site prior to and during construction.
- Contractor shall be responsible for providing required security to protect his own property, equipment, and work in progress.
- The Contractor shall provide all fencing and/or barricades to maintain public safety around the construction area. Bore/tunnel pits shall be bordered by a security fence or by other means to protect pedestrians and vehicular traffic per OSHA requirements and as approved by the Engineer. When not in use, pits shall be covered with steel plates. Contractor shall comply with all applicable safety standards. Not a separate pay item.
- Contractor shall field verify all dimensions and conditions before commencing work. It shall be Contractor's responsibility to report any discrepancies to the Owner before commencing work.
- The locations of existing utilities indicated on these plans are taken from existing public records. The Contractor is solely responsible for verification of vertical and horizontal location of all utilities prior to construction. Additional utilities and services may be crossing proposed sanitary sewer line. Contractor shall notify all utility companies with facilities in project area 48 hours prior to construction. Contractor is responsible for repairing damage to existing utilities, whether shown or not shown on plans, at no additional cost to the Town of Addison.
- Public and private utility lines and customer service lines may exist that are not shown on the construction drawings. It shall be the Contractor's responsibility to locate, maintain, and protect the integrity of these lines. Hand excavation may be required. Not a separate pay item.
- Contractor shall be responsible for and adequately protect existing structures, utilities, trees, shrubs, fences and other adjoining facilities. Damages caused by Contractor shall be reported to the appropriate property owner and repaired or replaced at the Contractor's expense within four (4) hours.
- Contractor shall comply with OSHA regulations and State of Texas Laws concerning excavation, trenching and shoring.
- Dewatering system or systems installed during construction shall be approved by the Engineer. Trench and pit bottoms and excavations shall be maintained in dry, stable condition until work is complete.
- Contractor shall make every effort to locate dewatering wells in areas that will not cause damage to trees or landscaping. Wells and discharge water should be placed in areas that will not cause disruption, interference or inconvenience to pedestrians and vehicle traffic. Discharge will be subject to acquisition of any necessary approvals and permits. Contractor will be responsible for control of siltation as a result of discharge water and any remedial measures resulting from siltation will be performed by the Contractor at no additional charge.
- The Contractor shall match all proposed pavement, curb, sidewalks, and driveways with existing.
- Should any part of a concrete pavement panel be removed during construction of proposed sanitary sewer, the Contractor shall replace the entire panel except as otherwise shown on plans or directed by the Engineer.
- All expansion joints shall be subsidiary to pavement replacement.
- All sawcuts are to be full depth unless otherwise indicated on plans.
- All dimensions to curbline are referenced to the back of curb unless otherwise noted. Curb removal/replacement is subsidiary to pavement removal/replacement.
- All existing trees and landscaping shall be protected from damage unless specifically designated for removal on the plans. Tree and root trimming must be approved by the Engineer and shall be done by or under supervision of a licensed tree surgeon.
- Contractor shall coordinate with the proper utility company to relocate, brace and support, or divert any utility in conflict with proposed structure or construction so as not to disrupt service of same. If temporarily relocated to facilitate construction Contractor shall restore relocated or diverted utility to its original condition and location upon completion of construction. No separate pay. Contractor shall be responsible for all associated cost for relocations whether temporary or permanent.
- The Contractor shall notify the following, five (5) days before starting work on the improvements shown on these plans.
 

a.	Addison Airport of Texas, Inc. - Mr. Edward Morales	(214) 248-7733 ext.105
b.	FAA-Mr. Curtis Gray	(214) 490-4750
c.	SW Bell Telephone	ENTERPRISE 9800
d.	GTE Telephone	(214) 318-3880
e.	TU Electric	(214) 323-8910
f.	Lone Star Gas	(214) 263-3444
g.	Starer Cable	(214) 840-2288
h.	Conoco Pipeline	(800) 833-6012
i.	Explorer Pipeline	(918) 493-5100
j.	Sprint	(800) 245-4545
- The Contractor shall notify the Town of Addison Construction Inspector at (214)450-2847 five (5) days before starting work on the improvements in order to coordinate construction, administration, and inspection activities.
- The Contractor shall notify the Town of Addison Street Department and the Engineer at least 24 hours prior to any construction within street right-of-way.
- The Contractor shall haul away all waste material such as rubbish, pavement, concrete, pipe, unacceptable soil, etc. to an approved offsite landfill. This shall be subsidiary to the unit price of pipe installation.
- Unpaved areas disturbed by construction are to be sodded, fertilized and watered per NCTCOG specifications, unless otherwise specified on the plans.
- The Contractor shall protect all storm sewer inlets receiving storm water runoff from the construction site, per NCTCOG Storm Water Pollution Prevention Plan (SWPPP). Not a separate pay item.
- All sprinkler systems and related components of sprinkler systems and fences, signs, etc. disturbed by construction are to be restored to existing condition or better. Not a separate pay item.
- In the event there are conflicting statements between the project specifications and the "The Standard Specifications for Public Works Construction for North Central Texas" the Project Specifications shall be used.
- In the event an item is not covered in the Specifications, the City Engineer's decision will apply.
- Allowable hours of work within the Town of Addison City limits are from 7:00 a.m. to 7:00 p.m. Work may be conducted Monday thru Saturday with the exception of holidays recognized by the Town of Addison.  
No lane closures will be allowed in Belt Line Rd. or Midway Rd. between the hours of 6:00 a.m. thru 10:00 p.m.

- Sediment barriers and silt fencing shall be installed where necessary at the direction of the Owner and shall be considered incidental to the unit price bid for pipe installation.
- All tree replacement and trimming will be incidental, not a separate pay item.
- No more than one driveway entrance per business establishment may be closed at any time. The first driveway cut shall be restored to traffic access prior to cutting pavement at a second driveway. Driveway reinstatement shall be by installing permanent pavement, temporary asphalt or steel plating, crushed rock up to grade is not acceptable.
- All restoration efforts shall follow immediately behind sanitary sewer installation. This is a very important requirement on this project. The Owner maintains the right to require the Contractor to cease utility construction if restoration lags behind utility installation. No additional time or compensation will be made to the Contractor to fulfill this requirement.
- All pavement markings & traffic control loops shall be replaced as incidental to pavement replacement. Not a separate pay item.
- The contractor shall supply "as built" plans upon completion of project.
- Contractor shall maintain access to properties and shall repair driveways within forty-eight (48) hours of pavement removal. For all pavement replacement use Type 1 cement with appropriate ASTM C494 admixtures.
- Contractor shall obtain Fire Department and Street Cutting Permits.
- For all work inside Addison Airport property, Contractor must supply, at his cost, radios compatible with the Control Tower to be employed at all times during construction.
- Contractor shall be responsible for all cost associated with providing power to the proposed lift station and for any relocation or repairs to existing utilities whether owned by the Town of Addison or franchise utility companies.
- For all work inside Addison Airport property, Contractor must supply, at his cost, radios compatible with the Control Tower to be employed at all times during construction.
- Unpaved areas disturbed by contractor are to be hydromulched or sodded, (to be selected by owner) fertilized and watered per NCTCOG specifications, unless specified on the plans. Not a separate pay item.

TRAFFIC HANDLING

- The Contractor shall be required to provide and maintain all necessary warning and safety devices (flashing lights, barricades, signs, etc) in accordance with Texas Manual on Uniform Traffic Control Devices to protect the public safety and health until all the work has been completed and accepted by the Town of Addison.
- The Contractor shall maintain access to all adjacent business and residences during construction.
- The closing of contiguous intersections and median openings to traffic crossing the project route will not be allowed.
- Implementation and removal of any parking restrictions and traffic signal alterations are the responsibility of the Contractor. The Contractor shall notify the Town of Addison Traffic Engineer, the Police and Fire Department, and the Engineer a minimum of three (3) working days prior to implementation of traffic handling around construction areas, and again upon the completion of work at each site requiring traffic signal modifications.
- Contractor shall replace all removed pavement markings, in the pre-construction pattern, when temporary diversions are no longer needed.
- Contractor shall conduct his operations in a manner such that trucks and other vehicles do not create a dirt and dust nuisance or safety hazard in any streets, sidewalks, driveways, and parking lots.
- Contractor is responsible for cleaning of streets, sidewalks, driveways, and parking lots caused by associated construction at close of each work day or as requested by Engineer.
- The Contractor shall be responsible for all cost associated with maintaining the continuous operation of the traffic signals in and bordering this project, for making immediate repairs to any signal equipment, cable or conduit he damages, for relocating existing or providing temporary traffic signal equipment if necessary to facilitate construction, for relocating traffic signal heads to provide line-of-sight alignment for approaching motorists, and for providing and installing turn prohibition signs next to the signal heads when these are determined necessary by the area traffic engineer. Actual repairs shall be coordinated through the Town of Addison to assess whether the City or Contractor is to make actual repairs.
- The contractor shall submit a traffic control plan to be used as a general guide for traffic control on the project. During the course of construction, the City may require additional traffic control devices to ensure public safety and traffic movement. Contractor shall install and maintain such additions at no additional cost to the Owner.


SANITARY SEWER

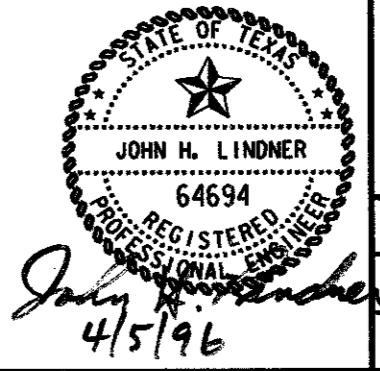
- Contractor may, at his option, install sewer line by other than open cut methods in areas designated on the plans to be open cut. However, payment will be made based on the lower of the two unit bid prices.
- In areas designated to be installed by other than open cut, Contractor may at his option install sanitary sewer line by tunneling or by microtunneling methods. Direct jacking of PVC pipe is not permitted and requires a steel casing pipe as shown on plans. However, steel casing pipe may be deleted if jacking pipe or tunnel boring machine (TBM) methods are used. In this case, the unit price bid for installing carrier pipe in casing pipe will be used for installing carrier pipe by other methods allowed in plans and specs.
- All mains shall be tested in accordance with NCTCOG specifications and the Town of Addison subdivision testing requirements. Not a separate pay item.
- All embedment and backfill to be included in the unit prices for installation of pipe.
- Trench excavation for trenches five (5) feet or more in depth shall be in accordance with all provisions of Part 1926, Subpart P - Excavations, Trenching and Shoring of the Occupational Safety and Health's Standards and Interpretations. It shall be the responsibility of the Contractor to conform to the above provisions.
- If temporary sanitary sewer by-pass is required, the Contractor shall coordinate with the Town of Addison Department of Public Works five (5) working days prior to anticipated shut-down.
- Sanitary sewer joints (all types PVC included) shall be rubber gasket equipped bell and spigot type. Chemically welded sanitary sewer joints are not acceptable. Bell and spigot joints available for ABS and PVC pipe.
- The Contractor shall be responsible for the integrity of existing structures in the vicinity of the proposed construction. (No separate pay)

- Deflection testing shall be performed for all non rigid pipe types. Deflection testing shall be conducted after the gravity sanitary sewer has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. The deflection test shall be conducted using a rigid ball or mandrel having an inside diameter equal to 95% of the interior diameter of the pipe. The test shall be performed without mechanical pulling devices.
- When installed under existing or proposed pavement or within two (2) feet of back-of-curb, all sewer pipe trenches, miscellaneous structures and bore pits are to be backfilled to pavement subgrade with cement stabilized sand in accordance with the technical specifications.
- The Contractor shall submit a Construction Phasing Plan prior to beginning any work.
- If temporary sanitary sewer by-pass is required, the Contractor shall coordinate with the Town of Addison Department of Public Works five (5) working days prior to anticipated shut-down. Prior to installing the by-pass lines, the Contractor shall have on site all men, materials and equipment necessary to complete the by-pass without delays. The by-pass assemblies shall be fully assembled and ready for installation prior to shut-down of the existing system. Any required temporary by-passing shall be considered incidental and not a separate pay item.
- Thrust blocking required at all force main bends unless otherwise indicated on plans and shall be included in unit price of pipe installation.
- All force main pipe shall be white in color.
- All sewer main construction shall conform to the minimum requirements of the Texas Natural Resource Conservation Commission (TNRCC) Rules and Regulations for public water and sewer systems. In particular, Title 30 Texas Administrative Code Chapter 317.2 - Design Criteria for Sewerage Systems.
- All construction shall conform to the requirements as stated in the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (latest edition).
- All 8" thru 12" force mains shall be Class 200, AWWA C900, P.V.C. pipe.
- Depth of sewer line shall be adjusted as necessary to avoid conflicts with other underground utilities. No separate pay for use of vertical bends or additional depth of cut.
- All mains shall be tested in accordance with TNRCC Chapter 317.2 testing requirements as shown in the specifications. Not a separate pay item.
- All sanitary sewer pipe joints shall be SDR 35 (P.S. 46) PVC ASTM D3034 (green in color), unless otherwise noted.
- All sewer main construction shall conform to the minimum requirements of the Texas Natural Resource Conservation Commission (TNRCC) Rules and Regulations for public water and sewer systems. In particular, Title 30 Texas Administrative Code Chapter 317.2 - Design Criteria for Sewerage Systems.
- All construction shall conform to the requirements as stated in the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (latest edition).
- All 8" thru 12" force mains shall be Class 200, AWWA C900, P.V.C. pipe.
- Depth of sewer line shall be adjusted as necessary to avoid conflicts with other underground utilities. No separate pay for use of vertical bends or additional depth of cut.
- All mains shall be tested in accordance with TNRCC Chapter 317.2 testing requirements as shown in the specifications. Not a separate pay item.
- All sanitary sewer pipe joints shall be SDR 35 (P.S. 46) PVC ASTM D3034 (green in color), unless otherwise noted.
- Terra-Tape required the length of force main installed one (1) foot above mains. Tape to read "Sanitary Sewer". This shall be incidental to the cost of installing the pipe.

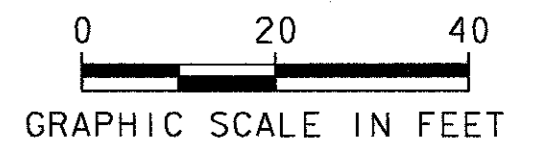
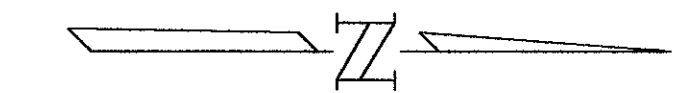
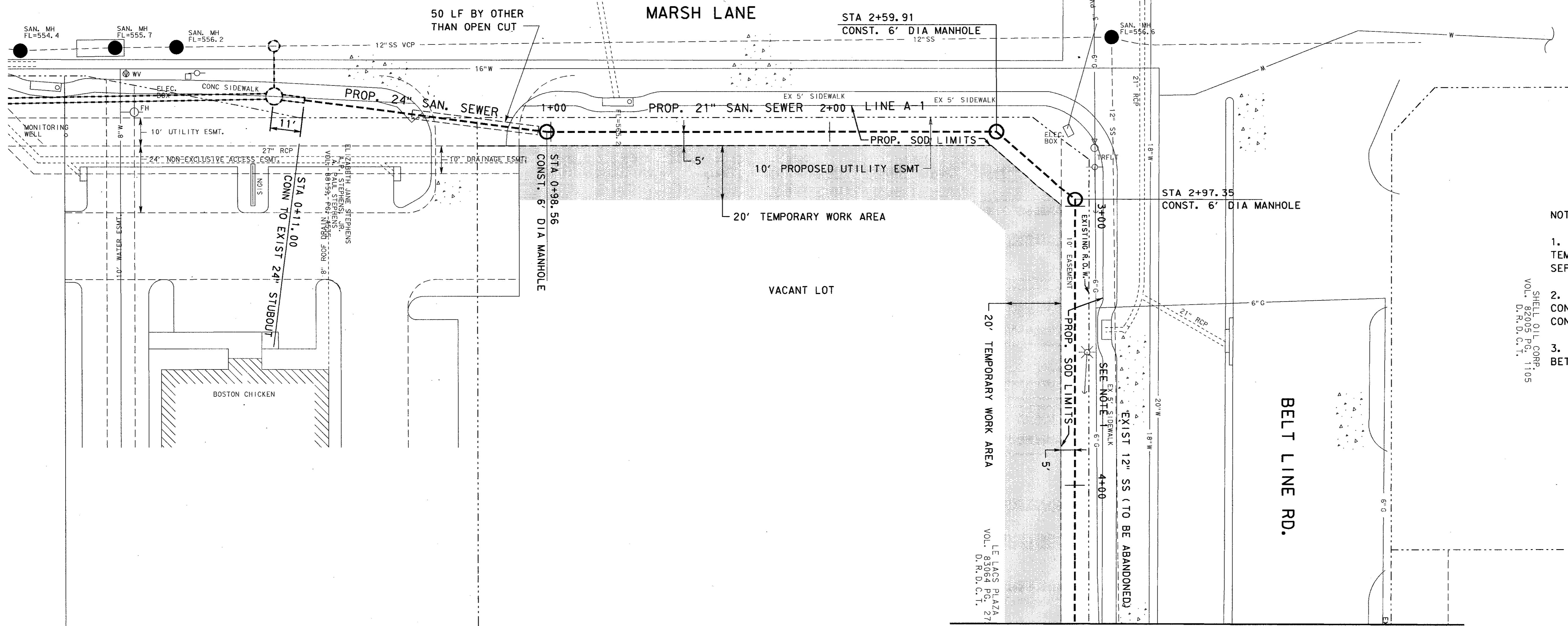
MANHOLES

- All manholes located under pavement shall be backfilled to a point one (1) foot below grade with cement stabilized sand in accordance with the technical specifications.
- Shale subgrades in footing excavations should be maintained at or near their in-situ moisture level prior to concrete placement. Any bearing surface subjected to ponding of water should be excavated to undisturbed shale immediately prior to concrete placement. If the shales are allowed to become dry, post-construction movement of footings can occur due to volume changes in the shales. Footing excavations which will remain open for more than 48 hours should be protected by a seal slab. Concrete should be placed with no loose or soft soils or shale.
- Concrete for manholes foundations shall be Class "C" with a minimum 28-day compressive strength of 4000 psi.

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NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>GENERAL NOTES</b>			
 <b>Carter-Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4950			
Unit	Scale	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D		Sheet
		3 of 63	

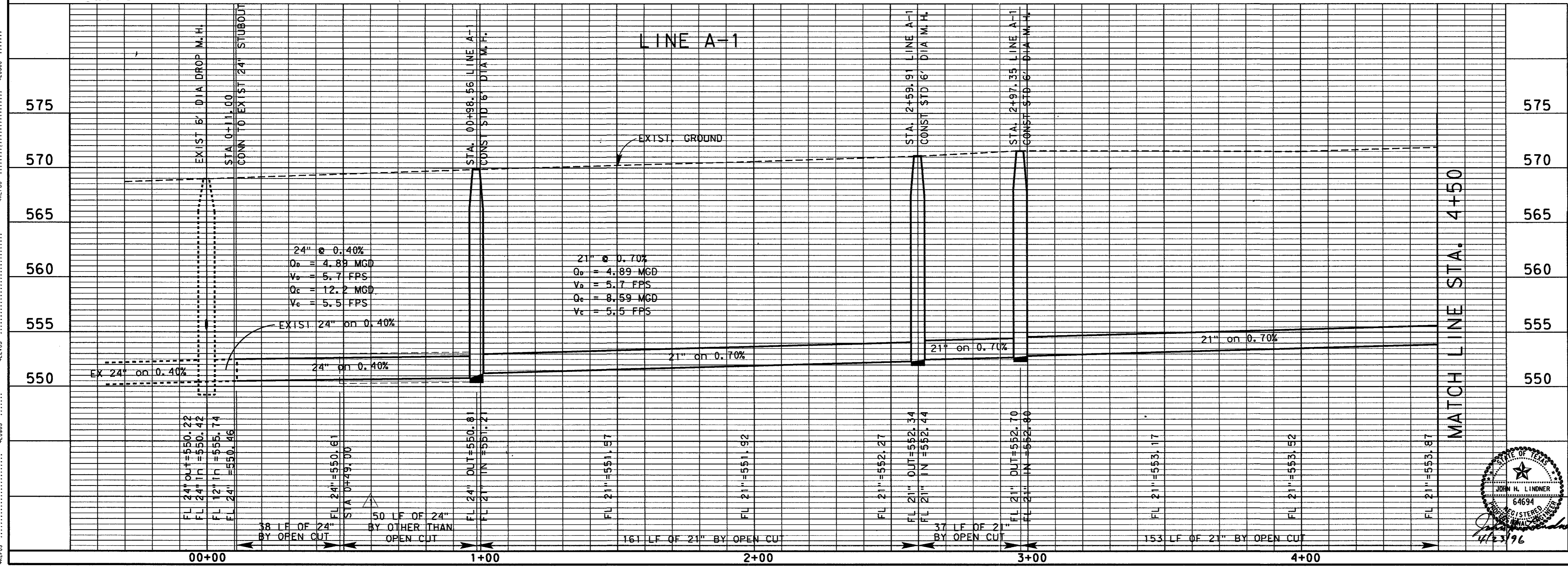


*John H. Lindner*  
4/5/96



- NOTES:
1. CONTRACTOR SHALL BRACE POWER POLES OR TEMP. RELOCATE AS NECESSARY. NOT A SEPARATE PAY ITEM.
  2. CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH OTHER CONSTRUCTION WORK ON THE ADJACENT PROPERTY.
  3. NO LANE CLOSURES ON BELTLINE ROAD BETWEEN 6:00 AM THRU 10:00 PM
- SHELL OIL CORP.  
VOL. 82005 PG. 1105  
D.R.D. C.T.

MATCH LINE STA. 4+50

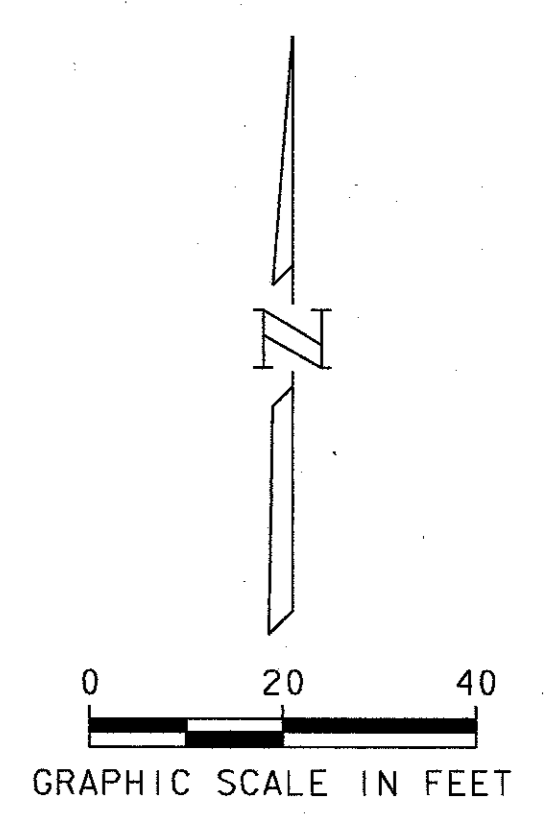
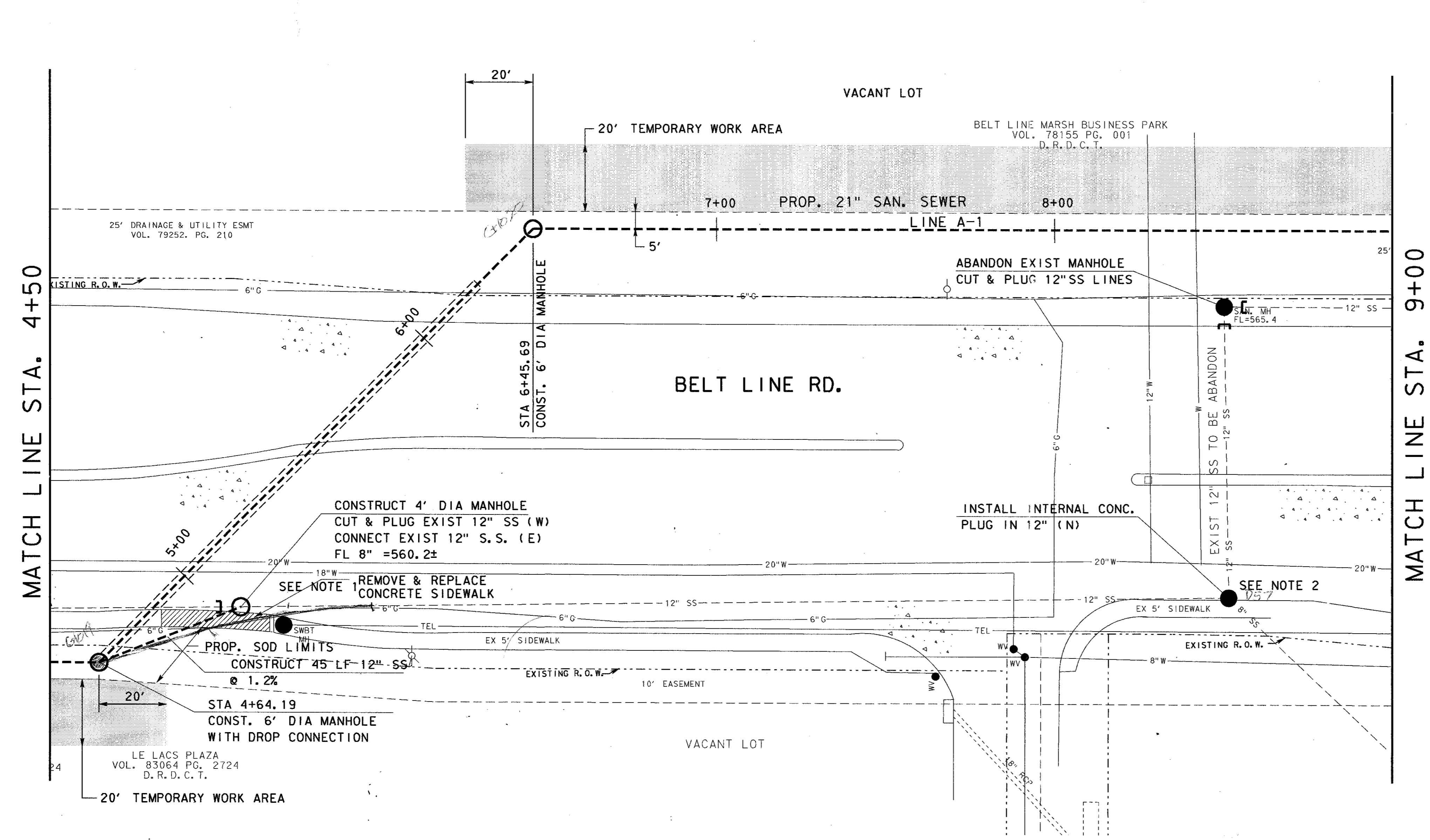


MATCH LINE STA. 4+50

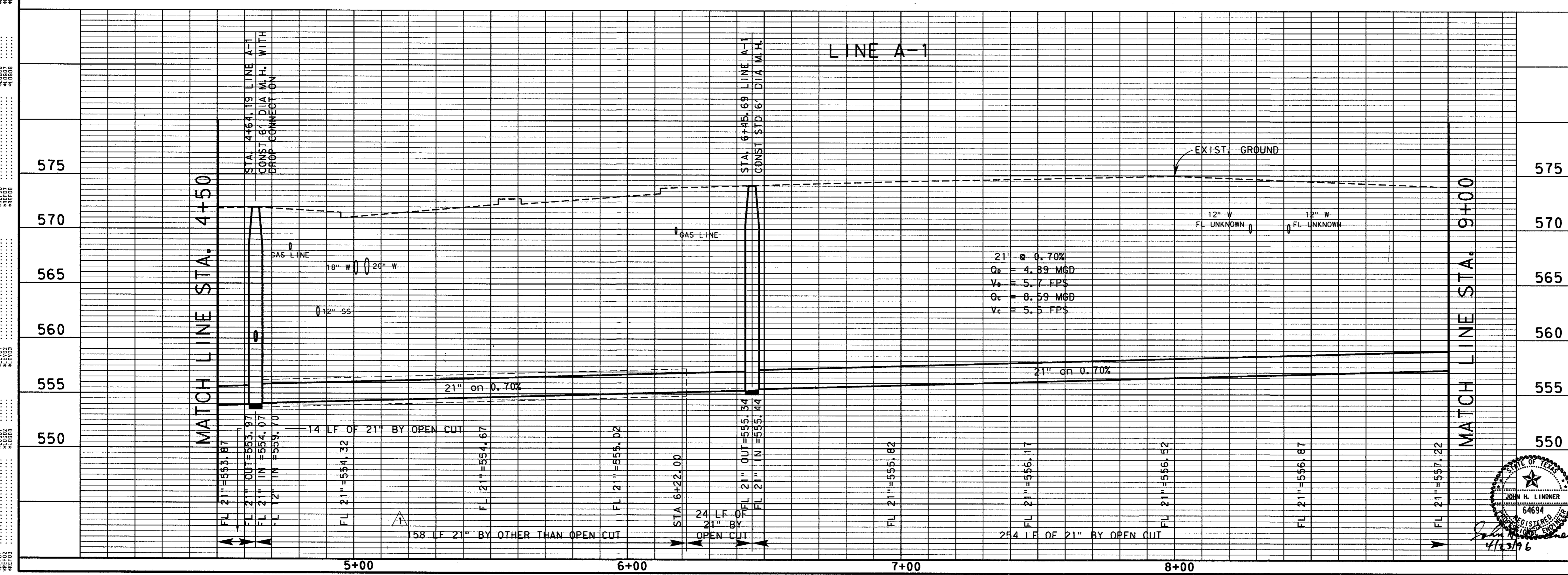
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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>LINE A-1</b>			
FROM STATION 0+11 TO STATION 4+50			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Hammon	Approved	J. Lindner
Job No.	93327601D		Sheet 4 of 63
			32765501.DGN

SHEET NO. 4 OF 63  
 DATE 04-05-96  
 PROJECT NO. 93327601D  
 SHEET TITLE: MIDWAY/BELTLINE SANITARY SEWER PHASE II - LINE A-1  
 DRAWN BY: R. HAMMON  
 CHECKED BY: J. LINDNER  
 APPROVED BY: J. LINDNER  
 DATE: 04-05-96

REVISIONS  
 NO. DATE BY  
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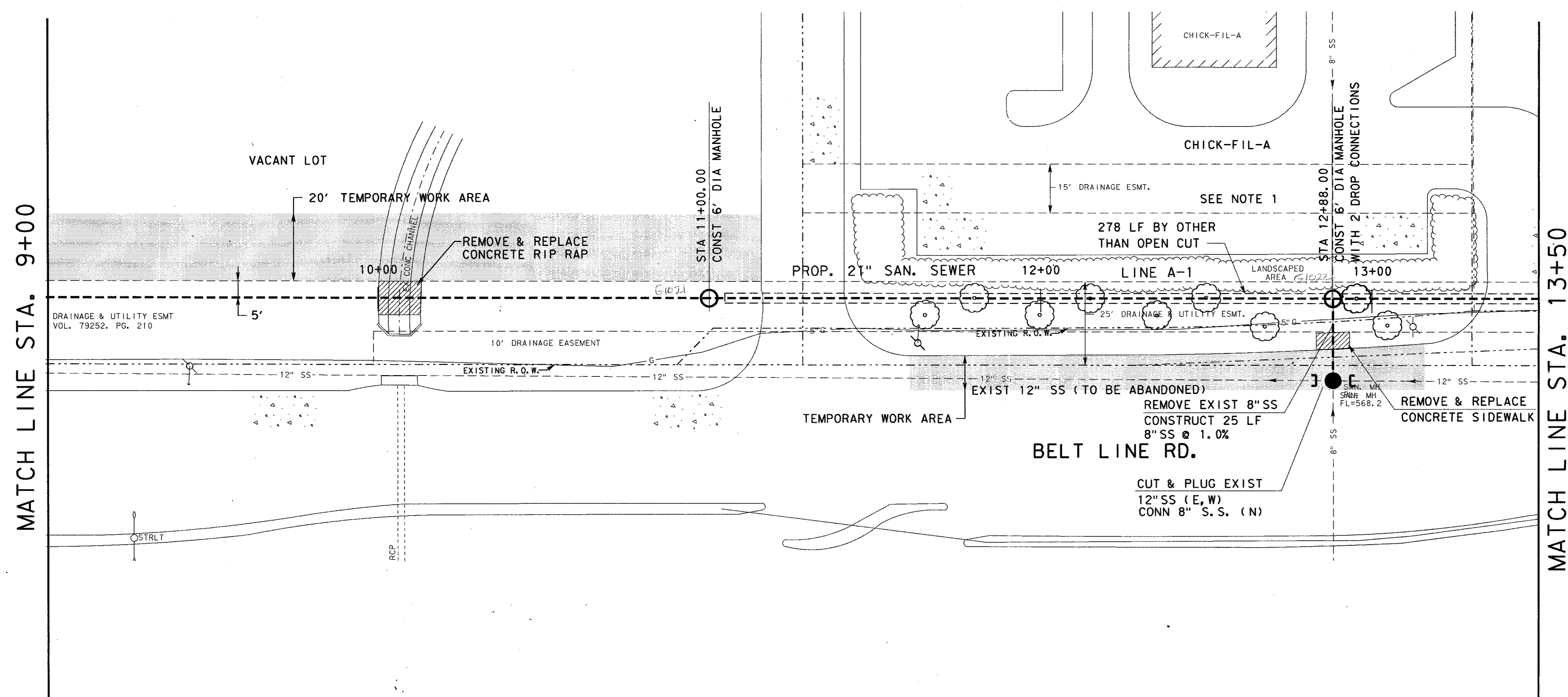


**NOTE:**  
 1. CONTRACTOR WILL BE PERMITTED TO INSTALL 4' DIA MANHOLE IN BELT LINE ROAD AFTER 10:00pm MONDAY THRU THURSDAY (SEE GENERAL NOTE 29 - SHEET 3 OF 63).  
 2. CONTRACTOR TO CONSTRUCT A INTERNAL PLUG ON THE EXIST 12" SS LINE (N), NOT A SEPARATE PAY ITEM.

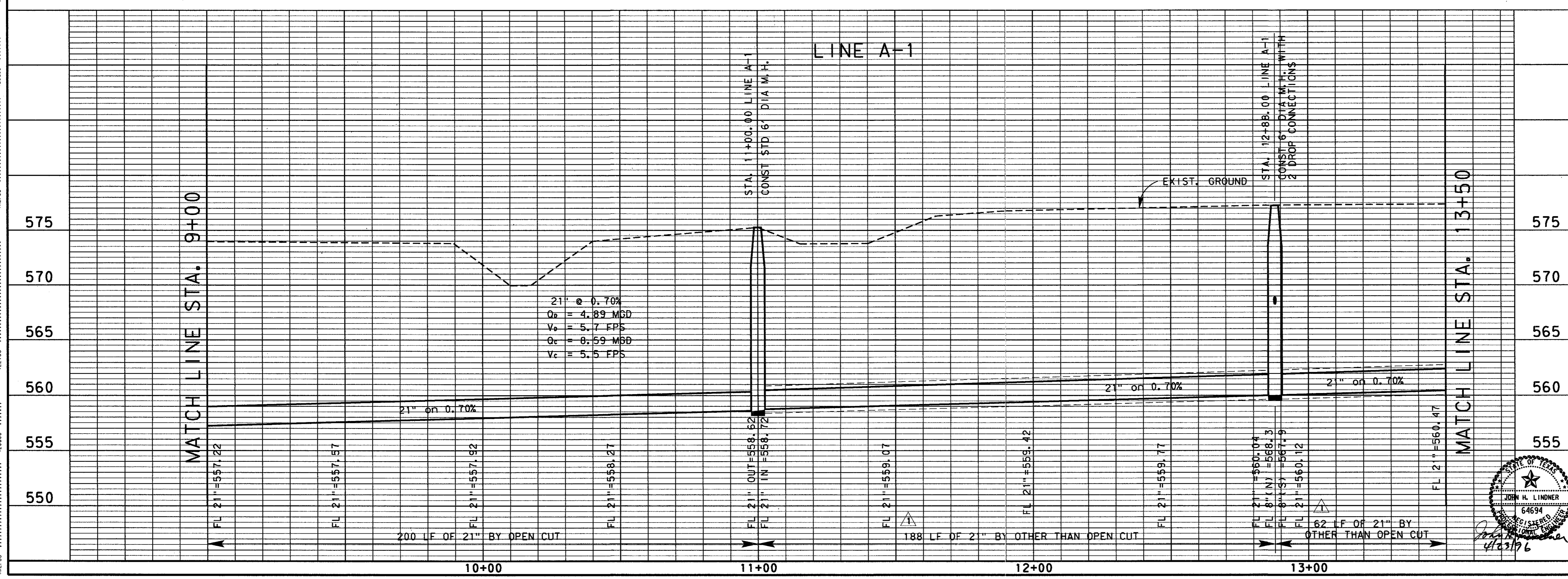


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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 4+50 TO STATION 9+00			
<b>Carter Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	5 of 63
32765502.DGN			

SHEET NO. 63 OF 63  
 PROJECT NO. 93327601D  
 DATE: 04-05-96  
 DRAWN BY: R. HOWMAN  
 CHECKED BY: J. LINDNER  
 APPROVED BY: J. LINDNER  
 JOB NO. 93327601D  
 SHEET 6 OF 63

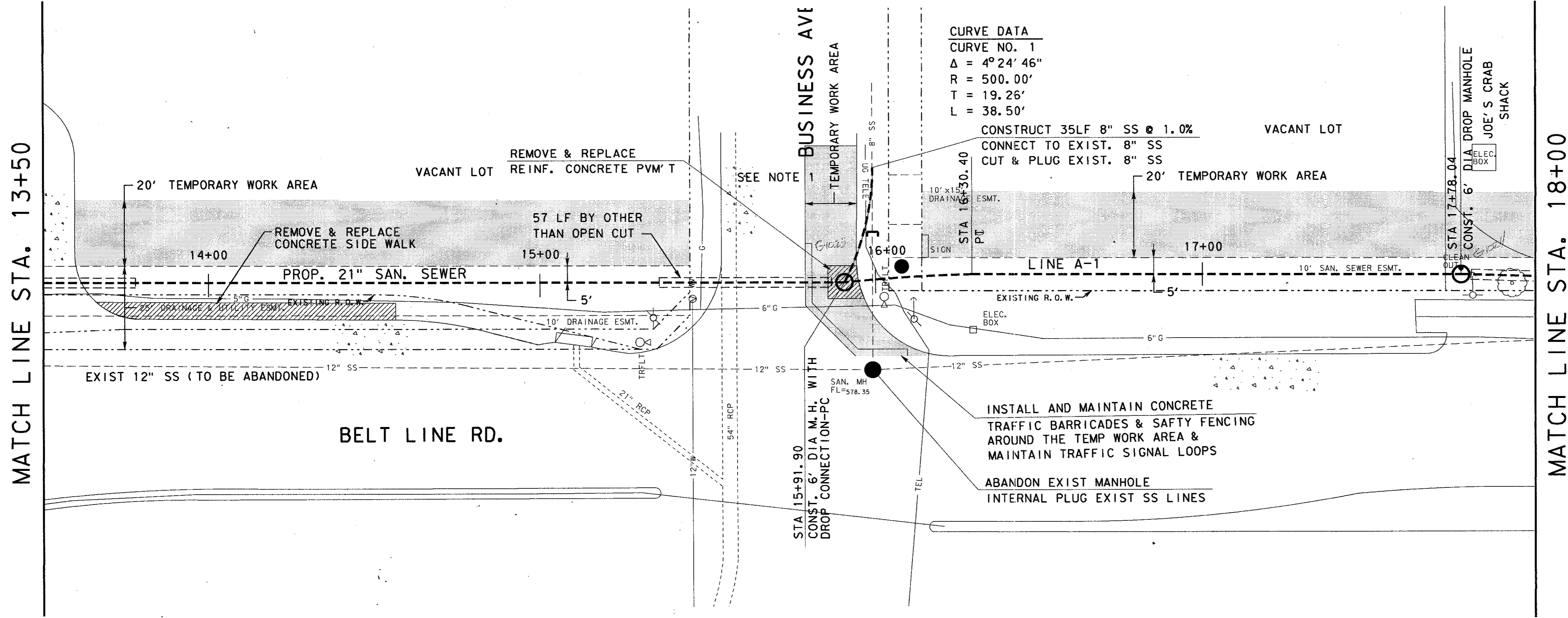


NOTE:  
 1. CONTRACTOR SHALL RESTORE LANDSCAPE TO ORIGINAL CONDITION. NOT A SEPARATE PAY ITEM.  
 2. FOR WORK IN BELT LINE RD., SEE GENERAL NOTE 29 ON SHEET 3 OF 63.

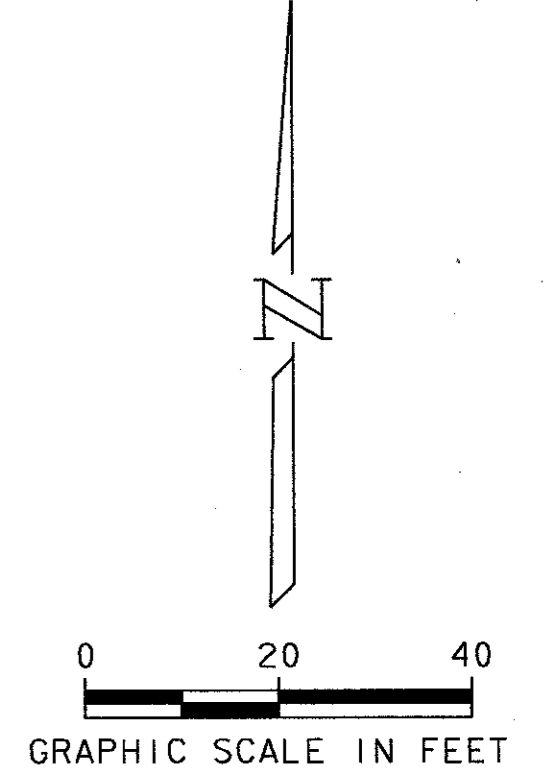


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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>LINE A-1 FROM STATION 9+00 TO STATION 13+50</b>			
<b>Carter Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7500 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4968			
Unit:	Scale:	Horiz. 1"=20' Vert. 1"=5'	Date: 04-05-96
Designed:	J. Lindner	Checked:	J. Lindner
Drawn:	R. Howman	Approved:	J. Lindner
Job No.:	93327601D	Sheet:	6 of 63

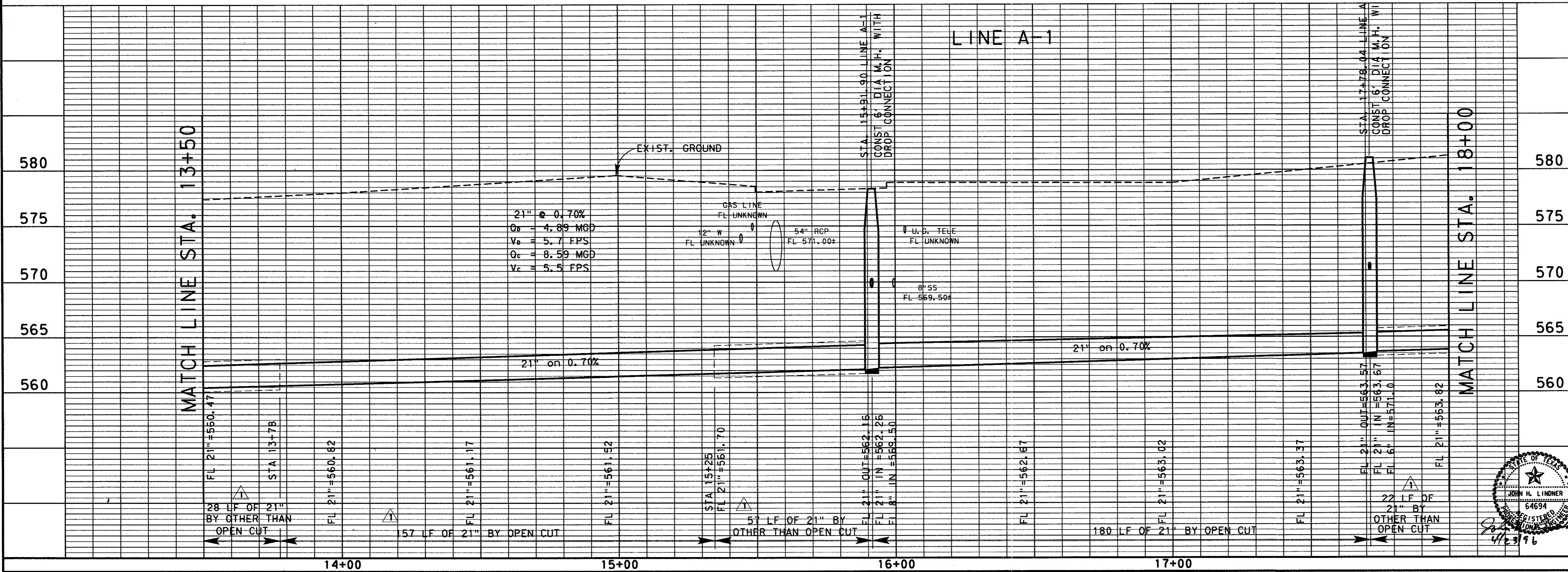
REVISIONS:  
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**CURVE DATA**  
 CURVE NO. 1  
 $\Delta = 4^{\circ}24'46''$   
 $R = 500.00'$   
 $T = 19.26'$   
 $L = 38.50'$



**NOTE:**  
 1. INSTALL TEMPORARY 2-WAY TRAFFIC BUTTONS IN BUSINESS AVE DURING CONSTRUCTION OF MANHOLE.



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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE A-1  
 FROM STATION 13+50 TO STATION 18+00

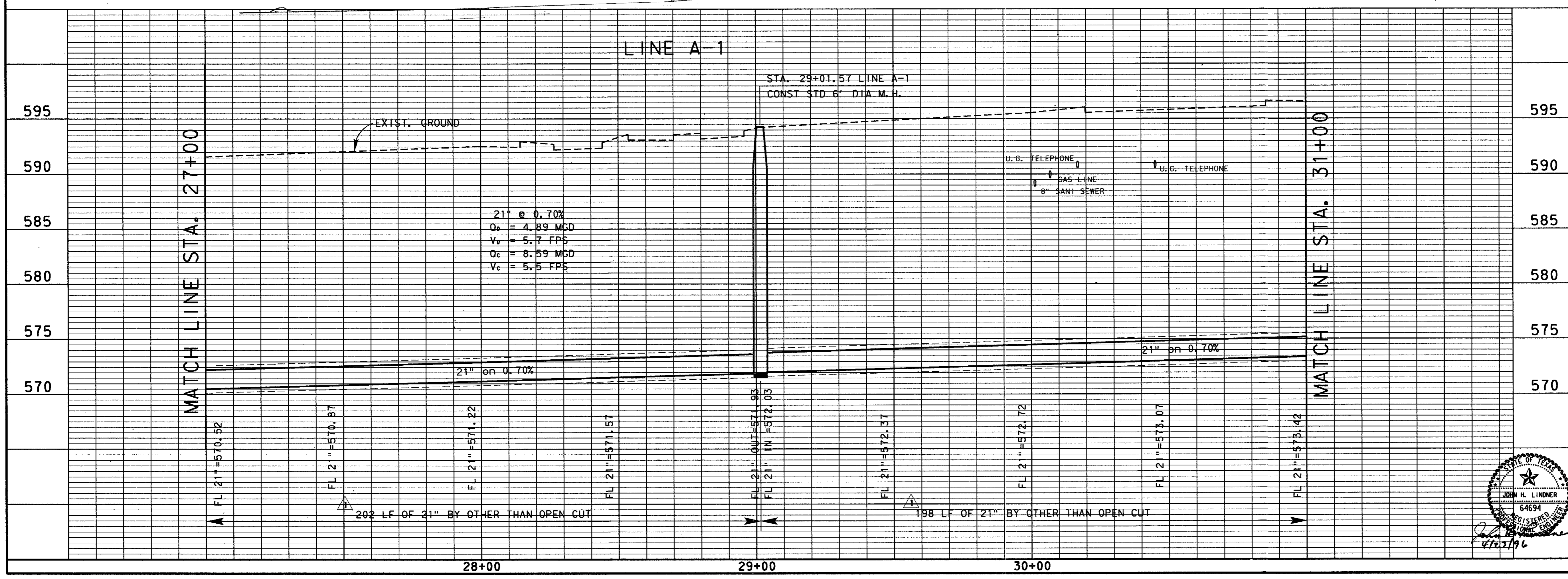
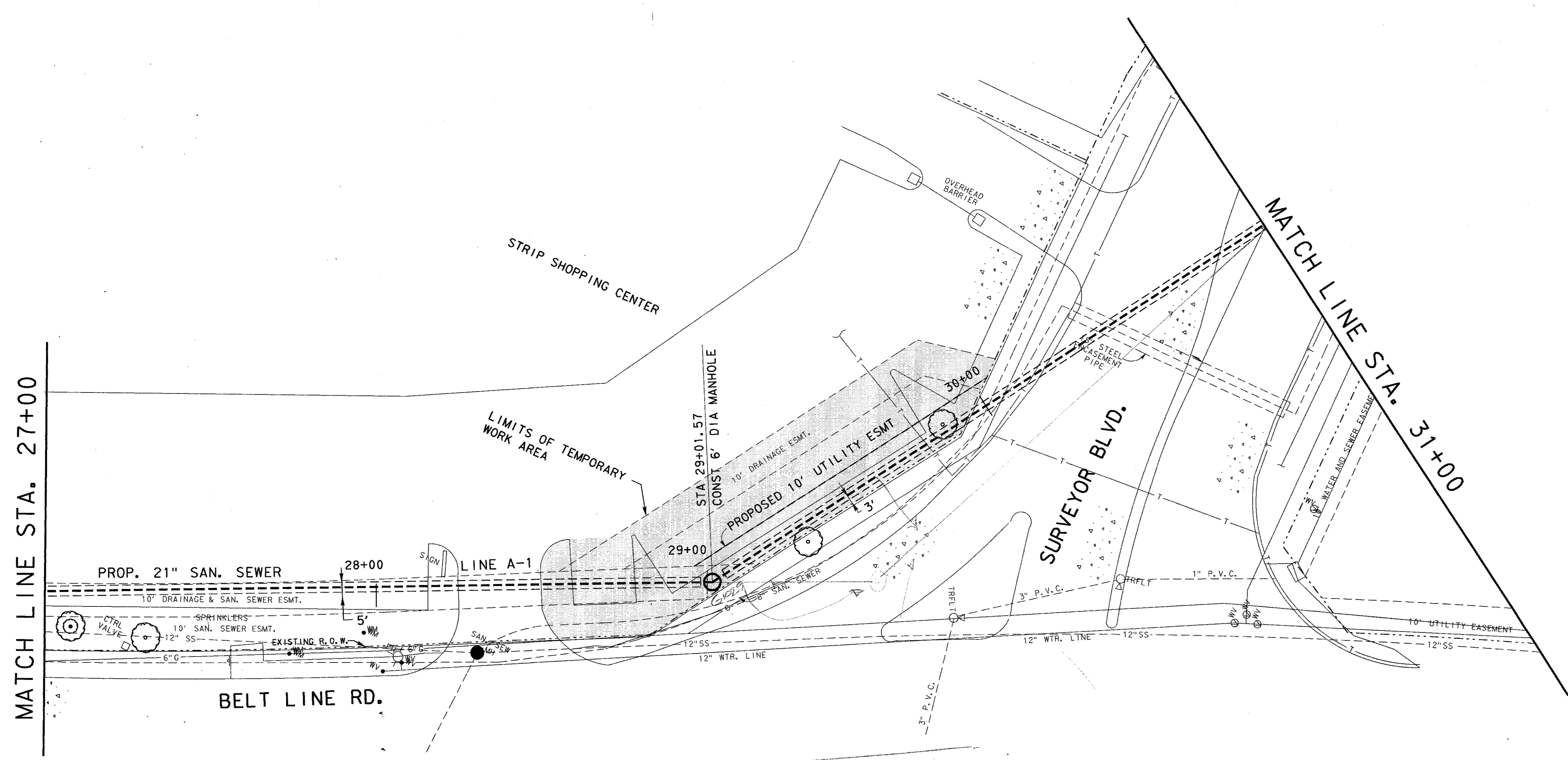
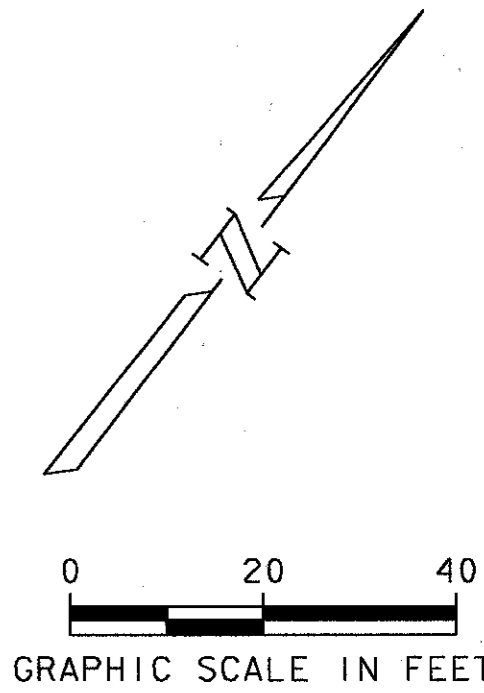


Unit	Scale	Hor. 1/2" = 20'	Date	04-05-96
Designed	Checked	Vert. 1" = 5'	Job No.	93327601D
Drawn	Approved		Sheet	7 of 63

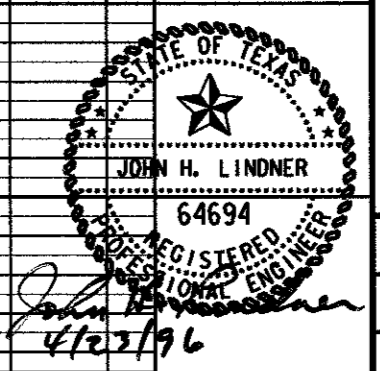






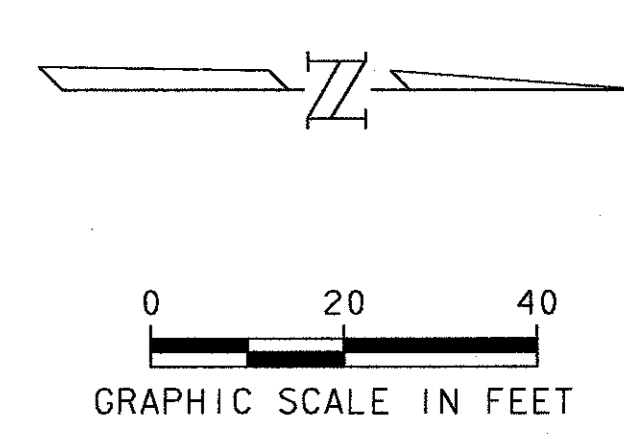
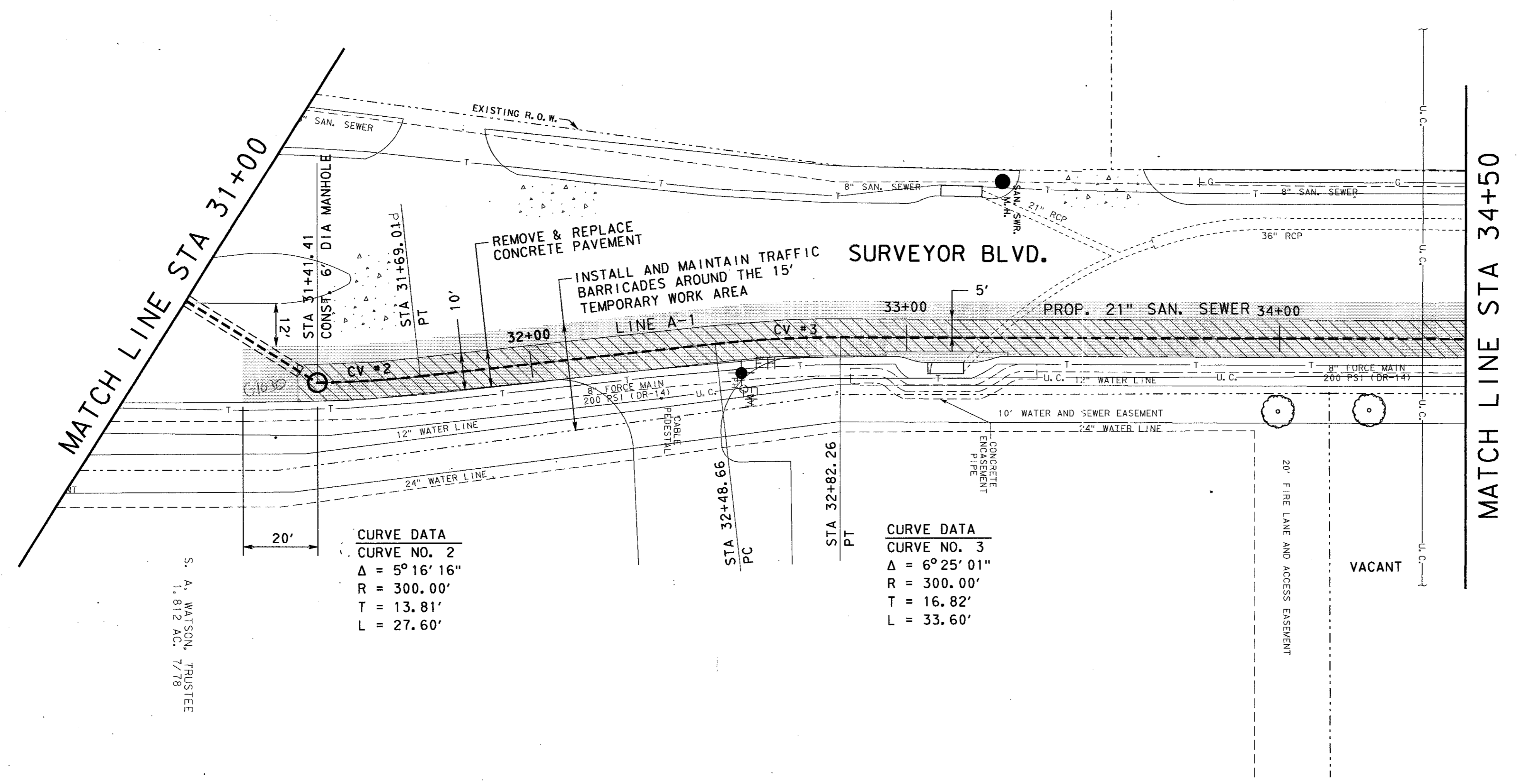


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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 27+00 TO STATION 31+00			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4490</small>			
Unit	Scale: Horiz. 1"=20'	Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
		Job No.	93327601D
		Sheet	10 of 63
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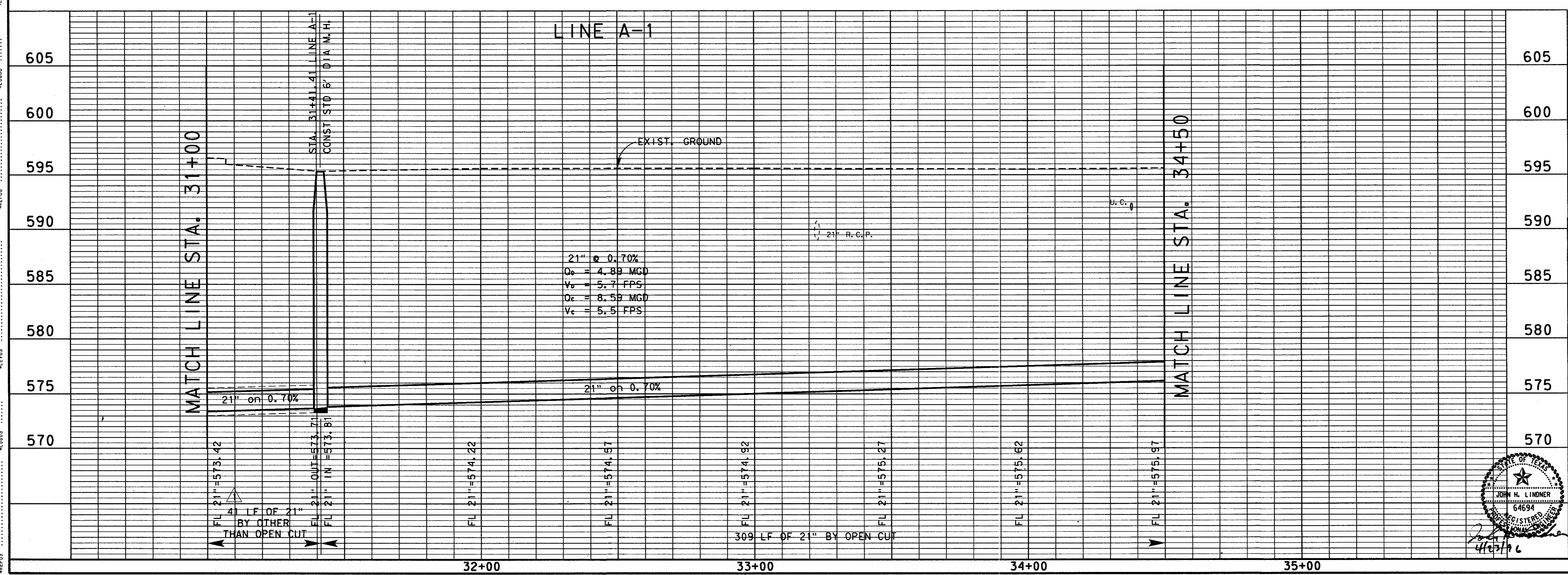
REVISIONS:  
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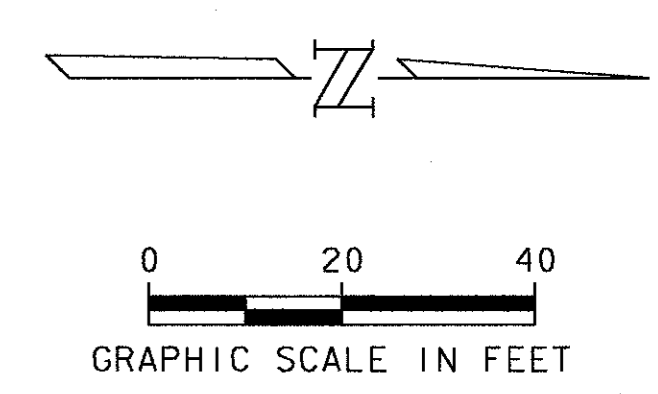
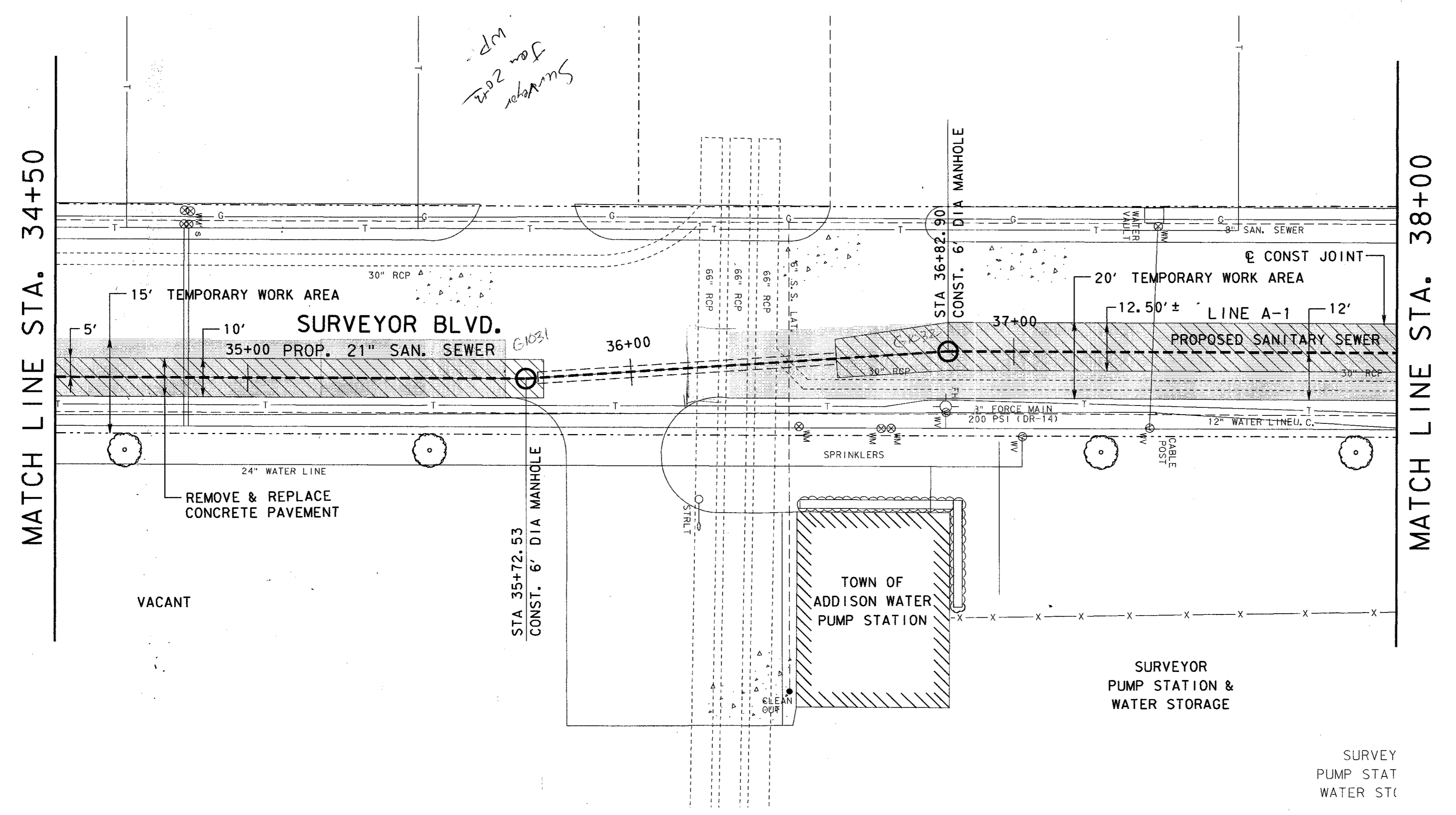
CURVE DATA		CURVE DATA	
CURVE NO. 2		CURVE NO. 3	
$\Delta = 5^\circ 16' 16''$	$R = 300.00'$	$\Delta = 6^\circ 25' 01''$	$R = 300.00'$
$T = 13.81'$	$L = 27.60'$	$T = 16.82'$	$L = 33.60'$

NOTE:  
 1. CONTRACTOR SHALL PROVIDE TEMPORARY STRIPPING OF SURVEYOR BLVD. INTO AT LEAST 2-10' MIN TWO WAY TRAFFIC LANES DURING CONSTRUCTION.

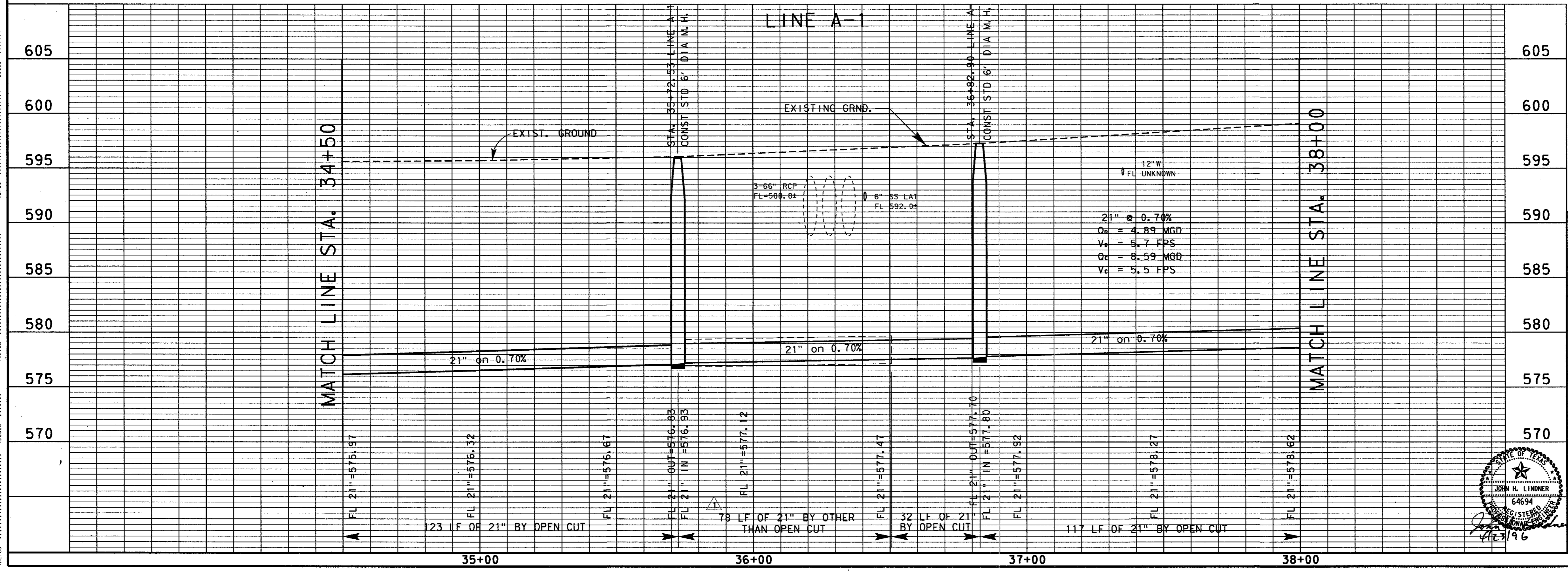


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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 31+00 TO STATION 34+50			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	11 of 63
32765508.DGN			

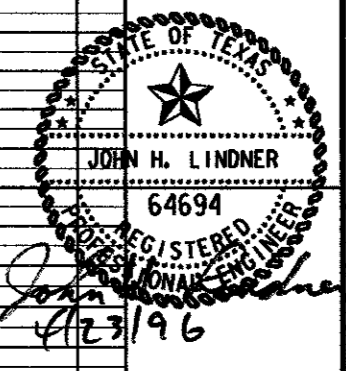
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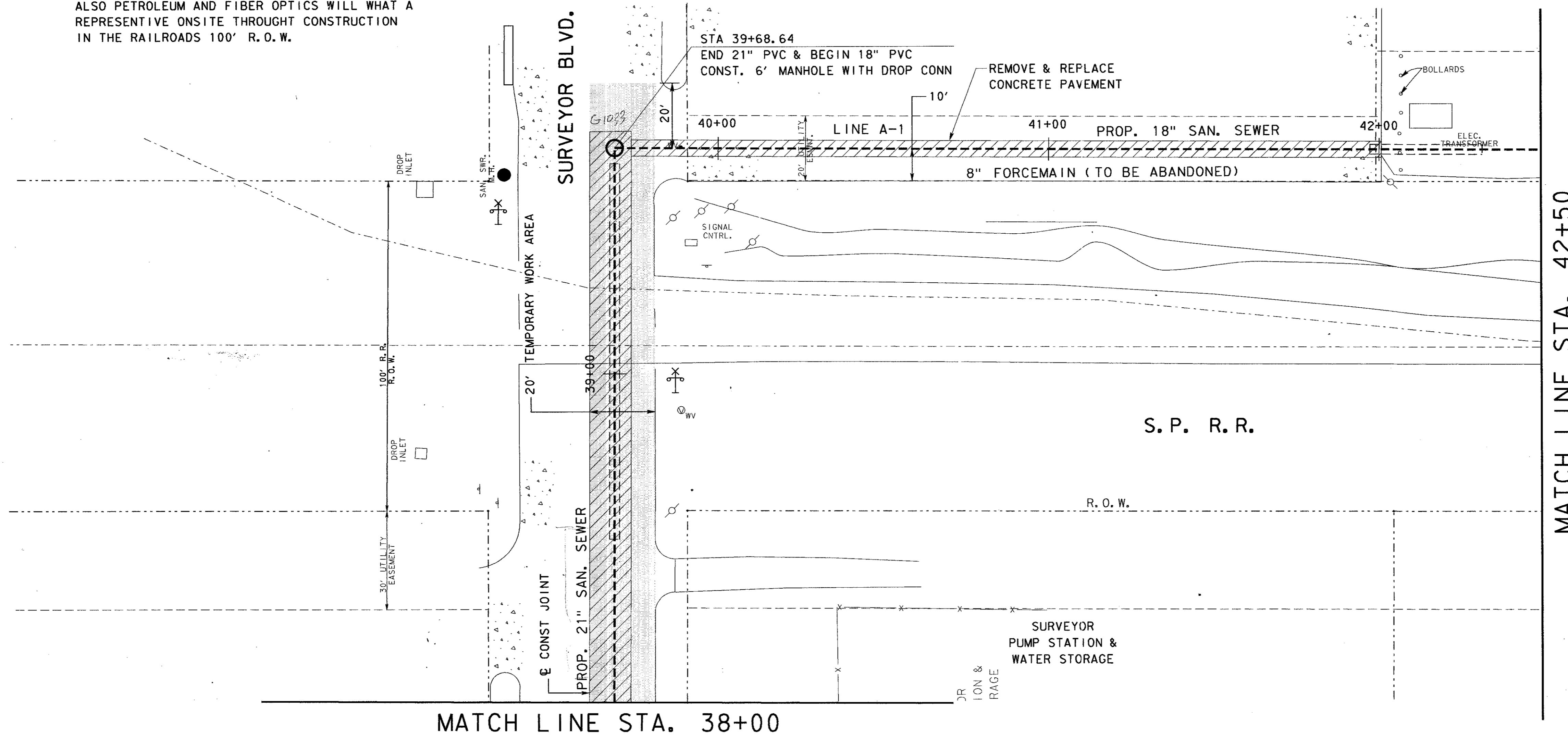
NOTE:  
 CONTRACTOR TO PROVIDE TEMPORARY STRIPPING OF  
 SURVEYOR BLVD. INTO AT LEAST 2-10' MIN. TWO WAY  
 TRAFFIC LANES DURING CONSTRUCTION.



NO.	DATE	REVISION	APPROV.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
<b>TOWN OF ADDISON, TEXAS</b> <b>MIDWAY/BELTLINE SANITARY SEWER</b> <b>PHASE II</b>  <b>LINE A-1</b> FROM STATION 34+50 TO STATION 38+00			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture,          Planning and the Environment          CARTER &amp; BURGESS, INC.          7950 ELMBROOK DRIVE, SUITE 250          DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
		Job No.	93327601D
		Sheet	12 of 63

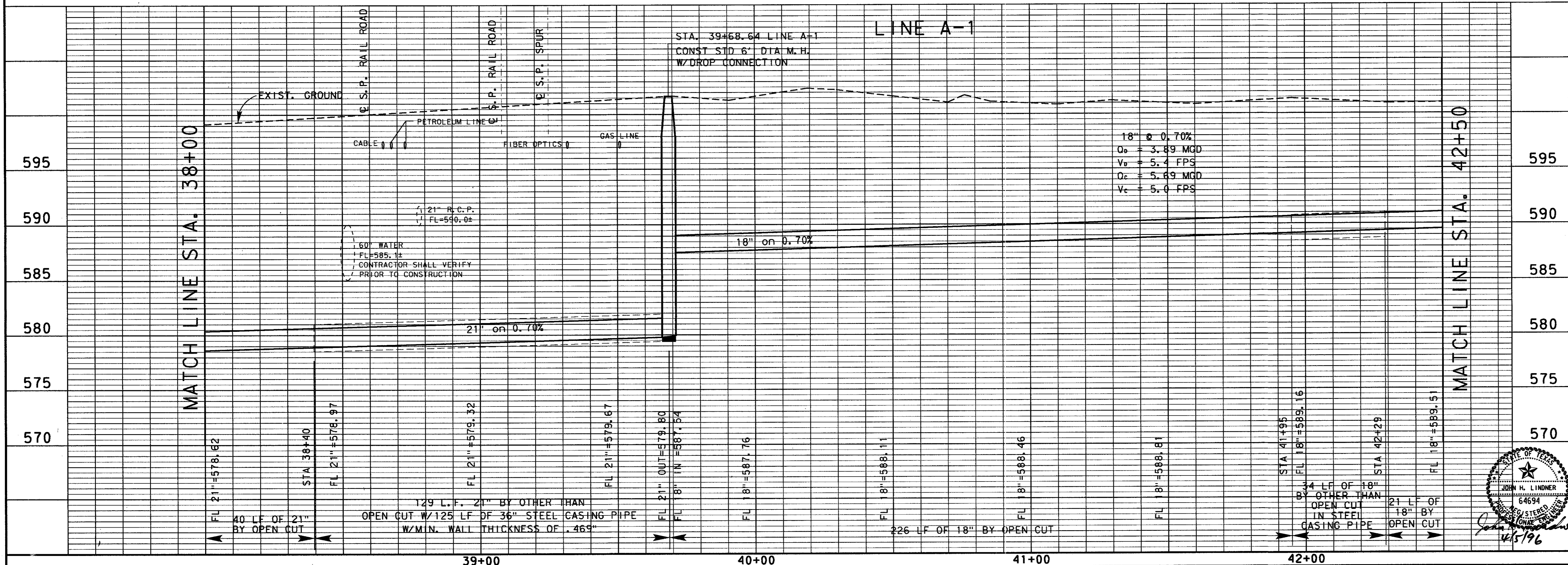


ADVISE FIRE DEPT. WHEN WORKING IN THIS AREA.  
ALSO PETROLEUM AND FIBER OPTICS WILL WHAT A  
REPRESENTIVE ONSITE THROUGH CONSTRUCTION  
IN THE RAILROADS 100' R.O.W.



MATCH LINE STA. 38+00

MATCH LINE STA. 42+50



NO.	DATE	REVISION	APPROV.
4			
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**TOWN OF ADDISON, TEXAS**

**MIDWAY/BELTLINE SANITARY SEWER  
PHASE II**

**LINE A-1**  
FROM STATION 38+00 TO STATION 42+50

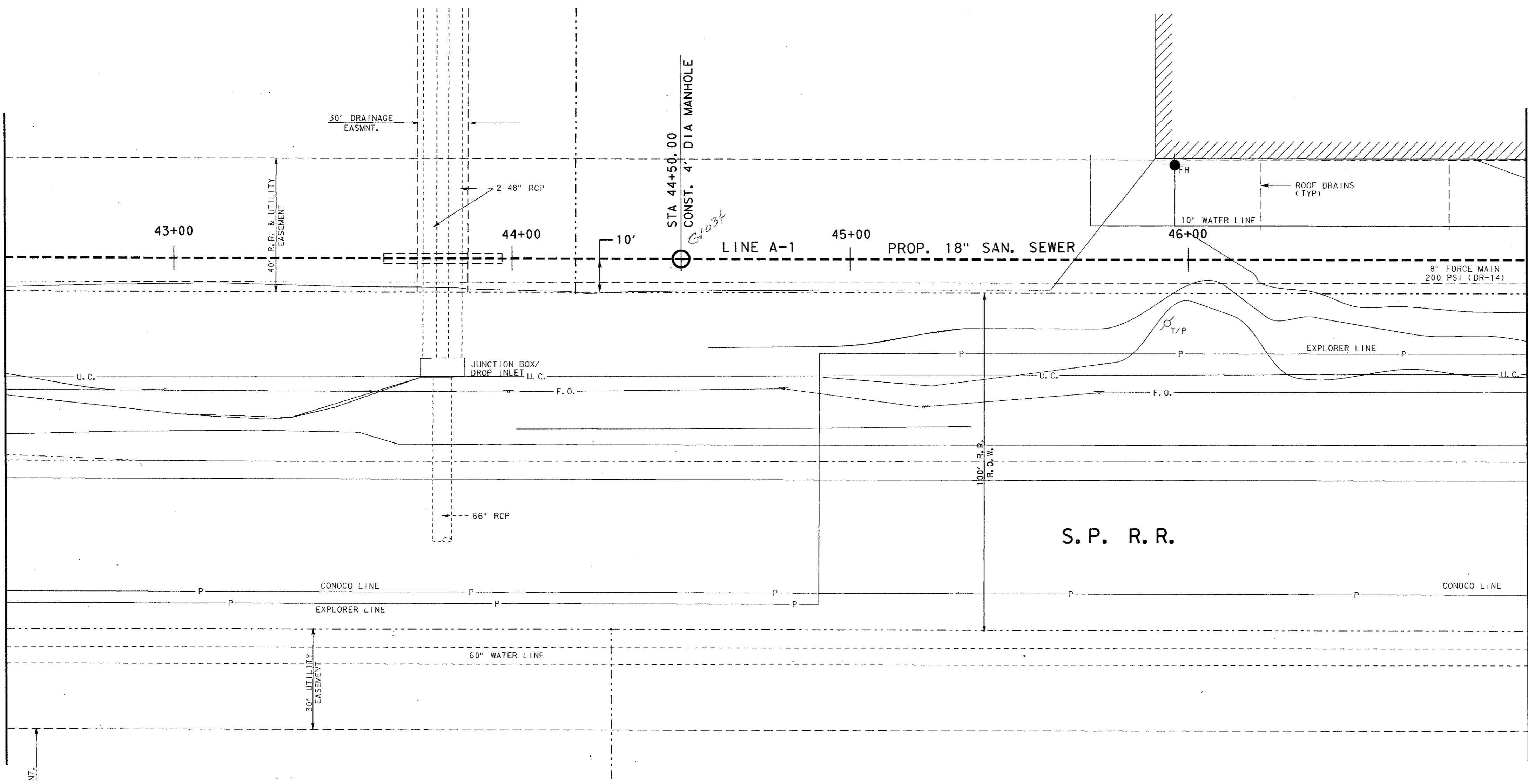
**Carter Burgess**  
Consultants in Engineering, Architecture,  
Planning and the Environment  
CARTER & BURGESS, INC.  
7965 EMBROOK DRIVE, SUITE 250  
DALLAS, TX 75247-2960

Unit	Scale	Horiz. 1"=20'	Vert. 1"=5'	Date	
Designed	J. Lindner	Checked	J. Lindner	Job No.	933276010
Drawn	R. Howman	Approved	J. Lindner	Sheet	13 of 63

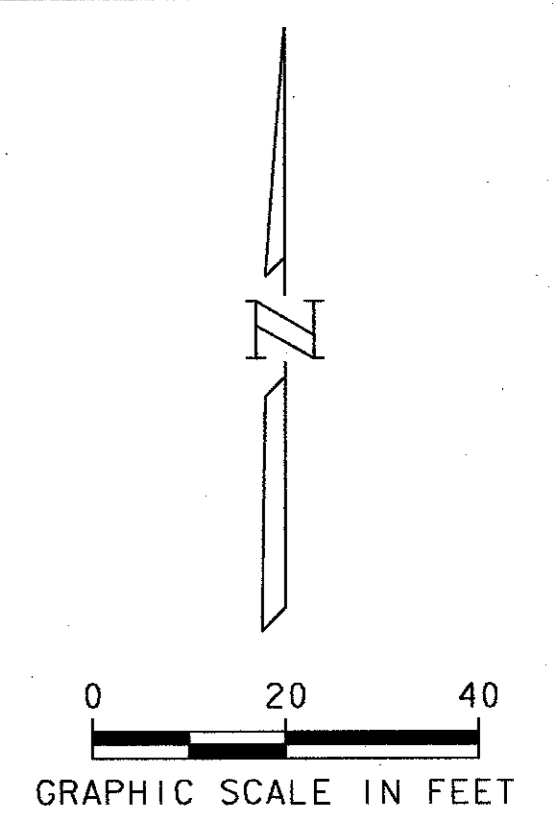
32765510.DGN

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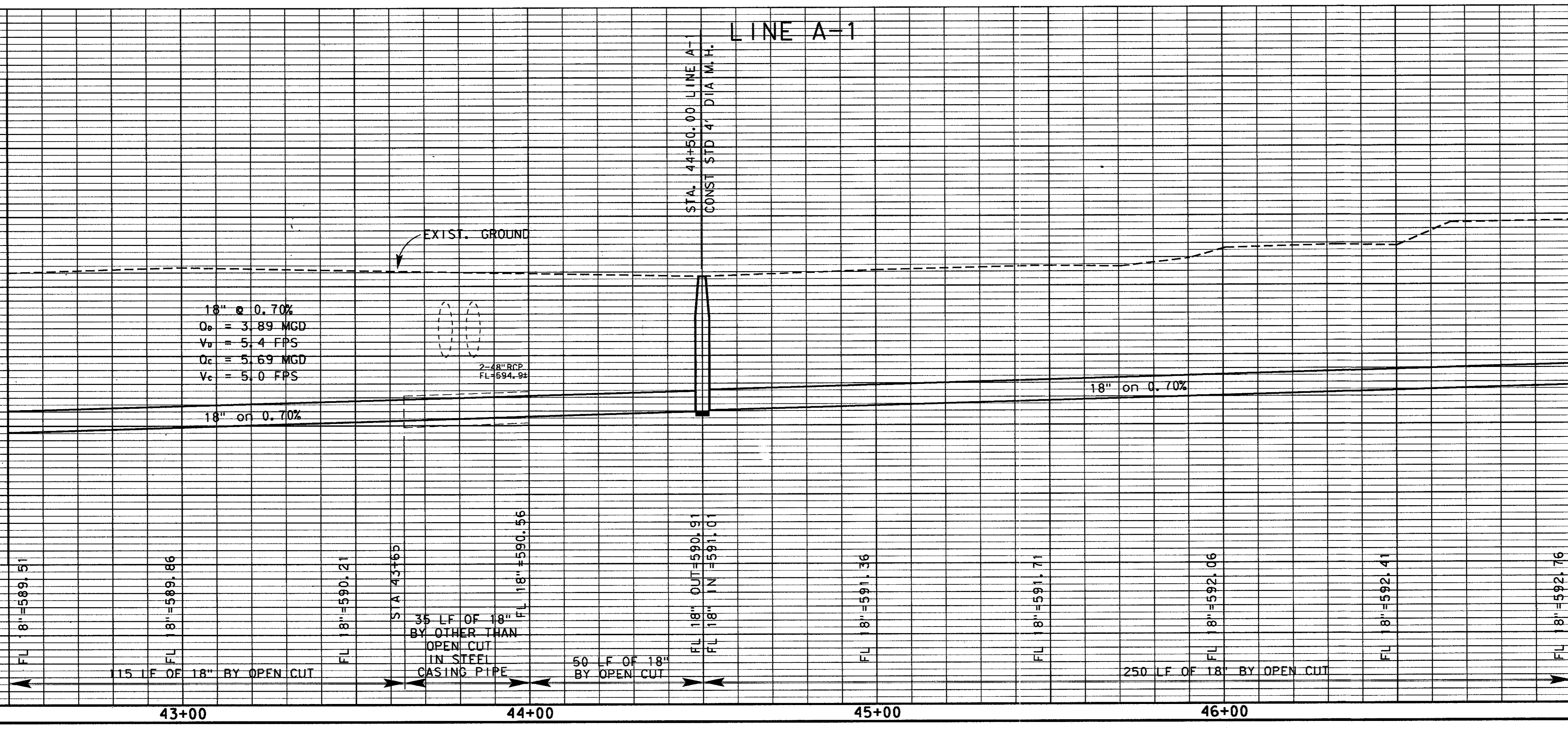
MATCH LINE STA. 42+50



MATCH LINE STA. 47+00



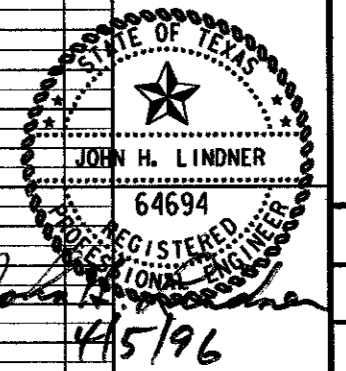
MATCH LINE STA. 42+50



MATCH LINE STA. 47+00

NO.	DATE	REVISION	APPROV.
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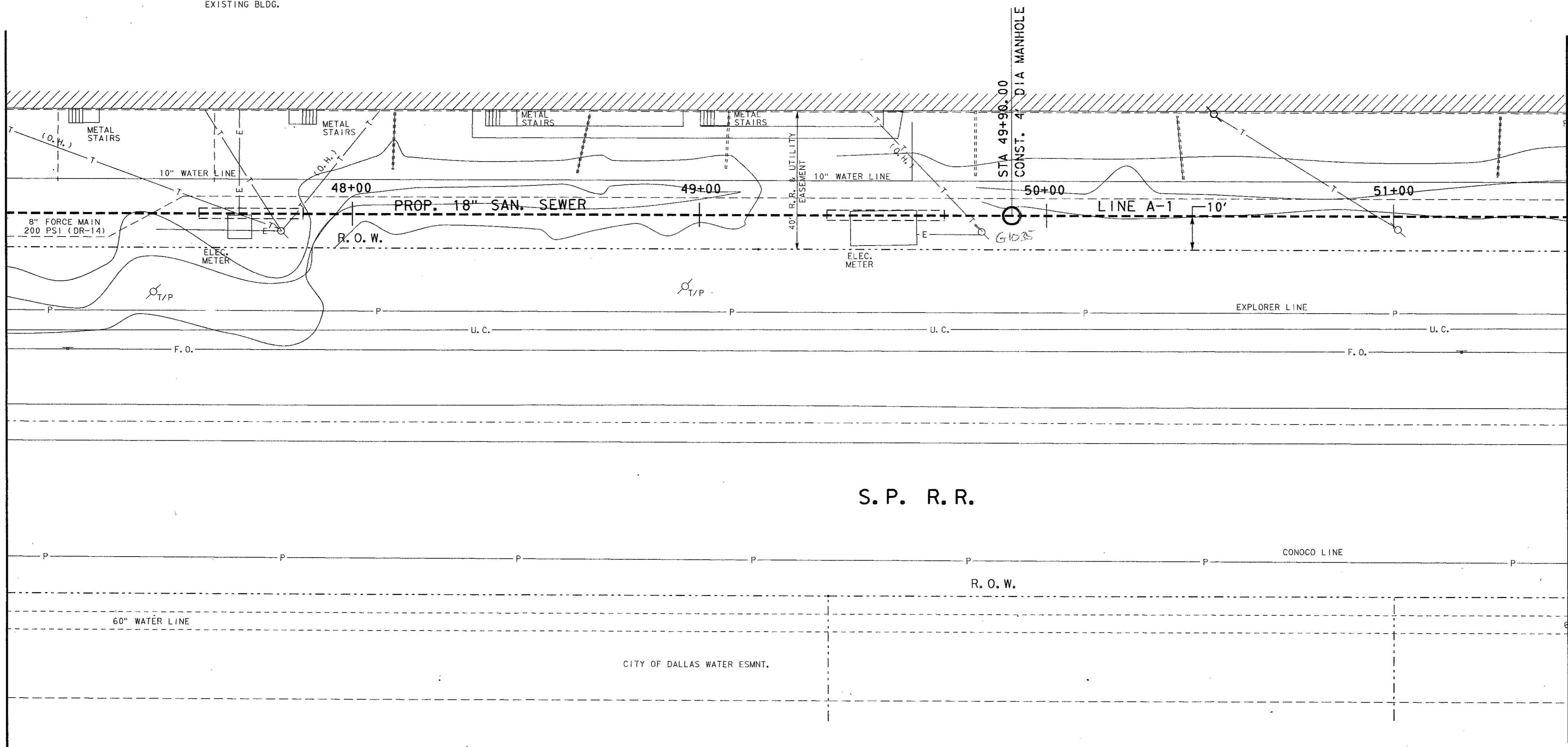
TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE A-1  
 FROM STATION 42+50 TO STATION 47+00



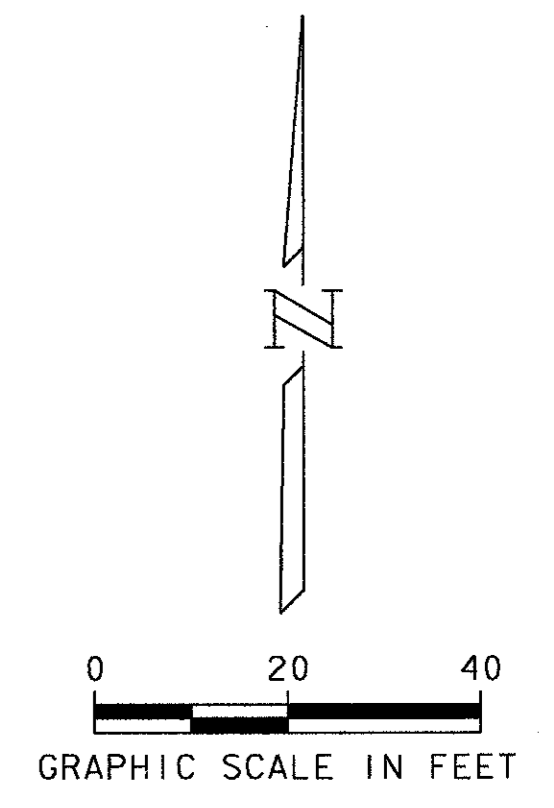
Unit	Scale	Horiz. Ver.	Date
Designed	J. Lindner	1"=20' 1"=5'	04-05-96
Drawn	R. Howman	Checked	J. Lindner
Approved	J. Lindner	Job No.	93327601D
		Sheet	14 of 63

REVISIONS  
 NO. DATE REVISIONS  
 1 08/05/96  
 2 08/05/96  
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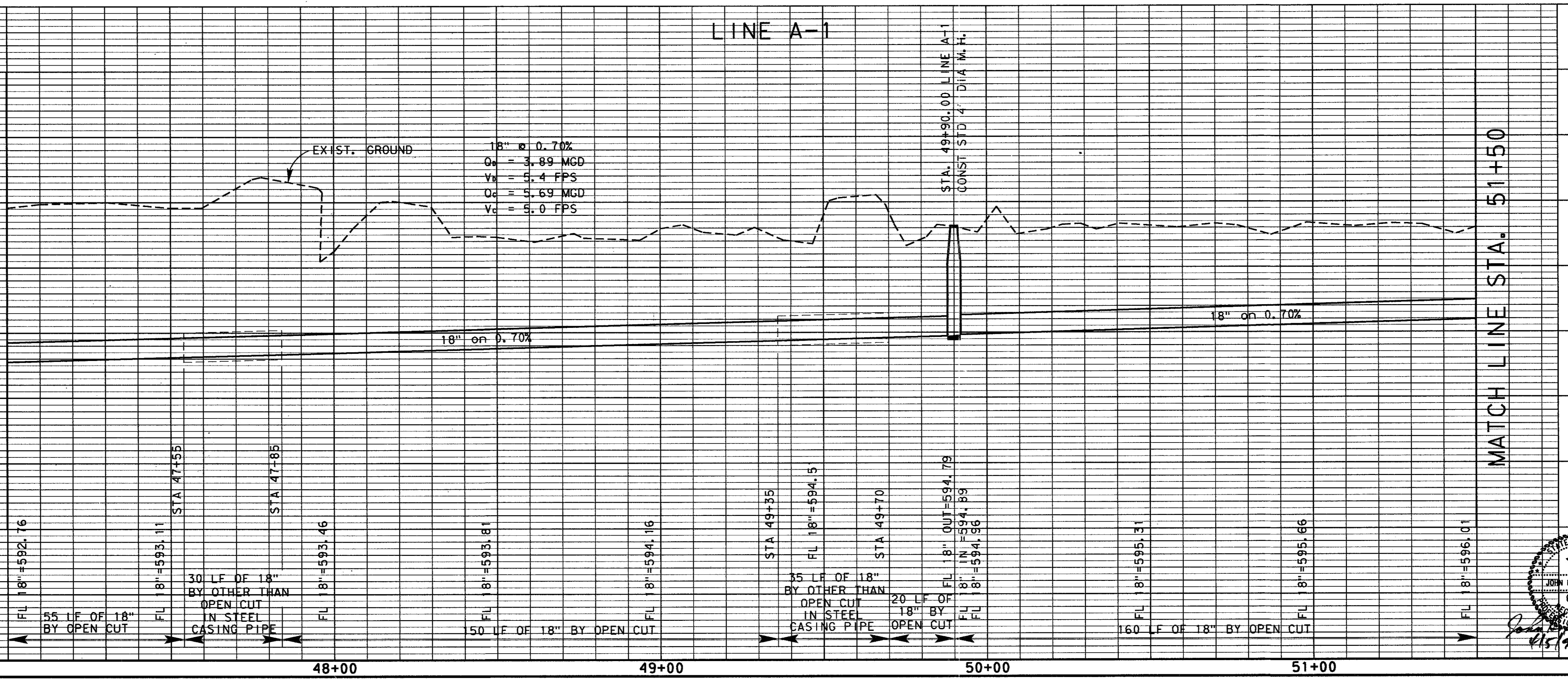
MATCH LINE STA. 47+00



MATCH LINE STA. 51+50



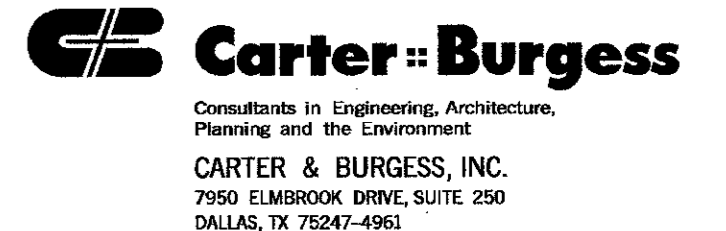
MATCH LINE STA. 47+00



MATCH LINE STA. 51+50

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TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE A-1  
 FROM STATION 47+00 TO STATION 51+50



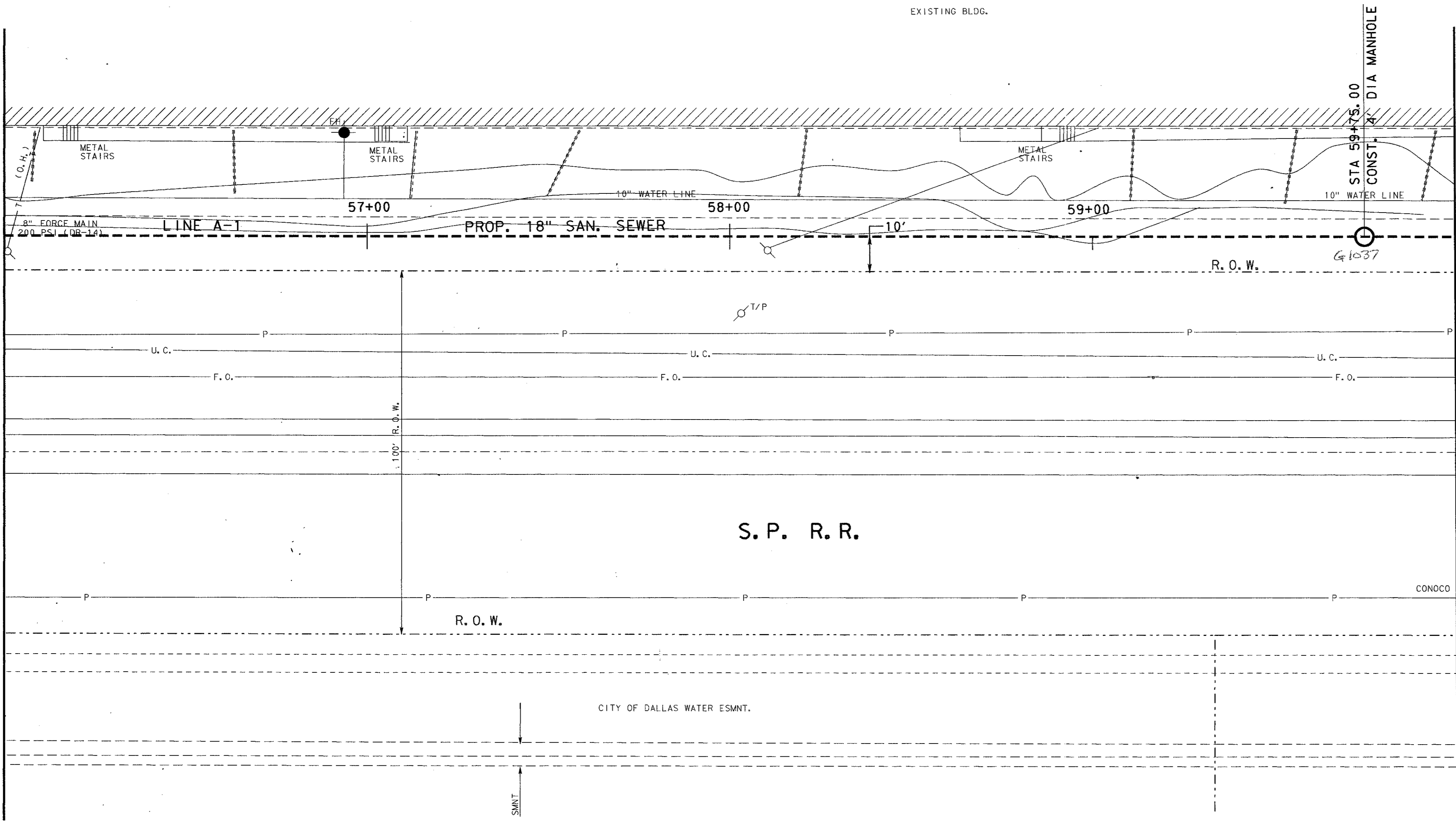
Unit	Scale	Hor. 1"=20'	Ver. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	15 of 63



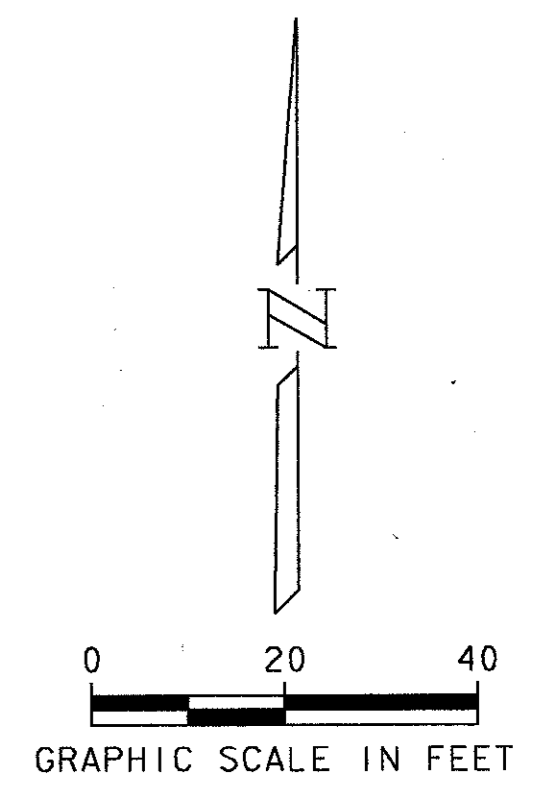


REVISIONS  
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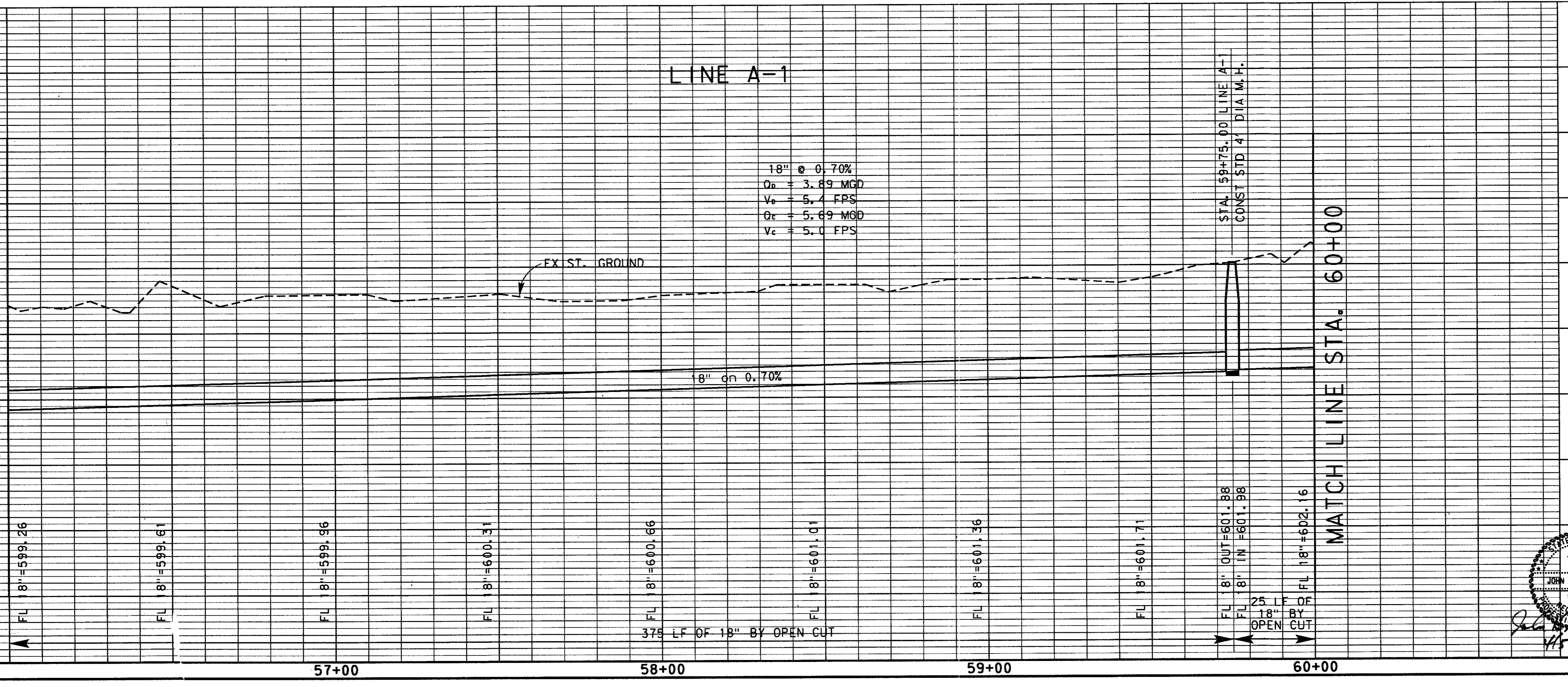
MATCH LINE STA. 56+00



MATCH LINE STA. 60+00

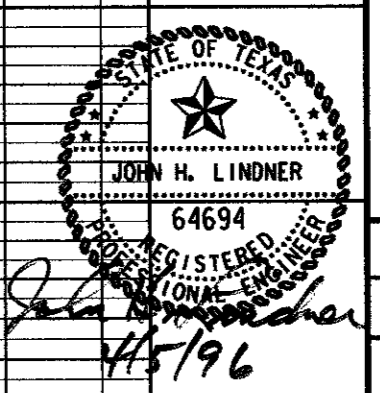


MATCH LINE STA. 56+00

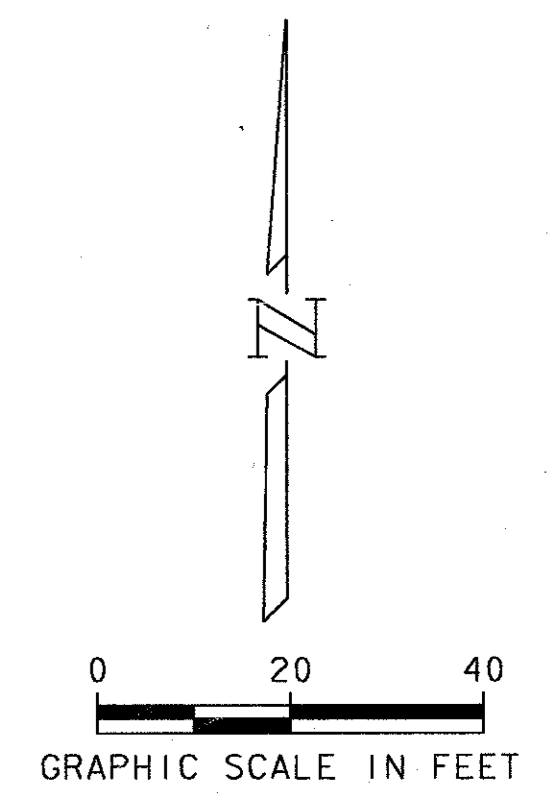
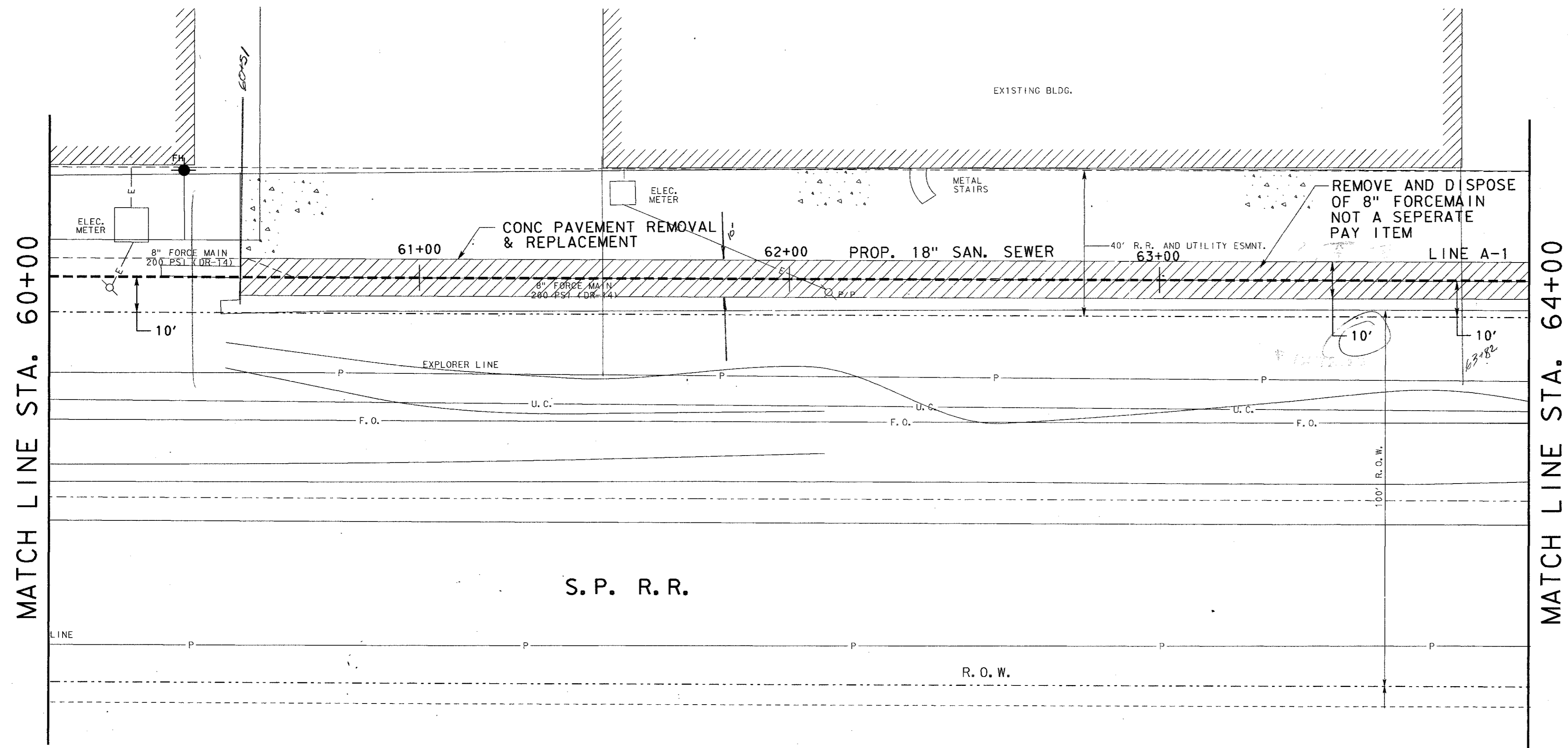


MATCH LINE STA. 60+00

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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 56+00 TO STATION 60+00			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Hor 1"=20' Ver 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	17 of 63
3276SS14.DGN			

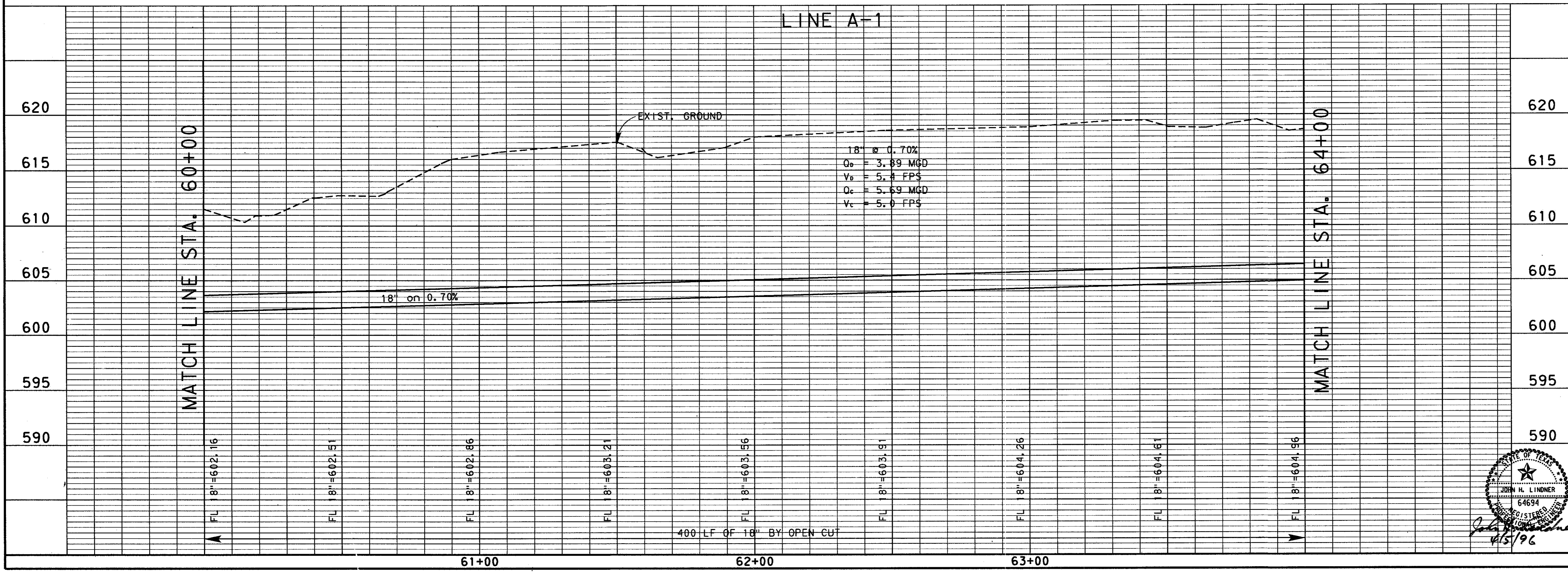


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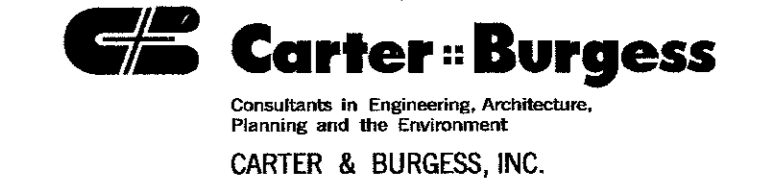
NOTE:  
 1. CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS AROUND EXISTING BUILDING AT ALL TIMES.

Concrete Foundation  
 325' x 19' x 7215' ±  
 4' ±  
 6' ±  
 127' ± 11'

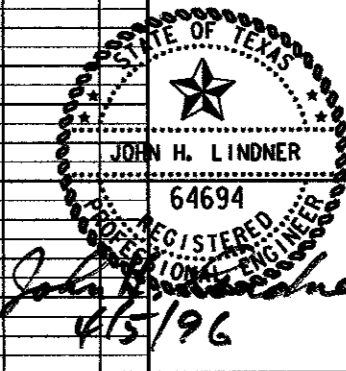


NO.	DATE	REVISION	APPROV.
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TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE A-1  
 FROM STATION 60+00 TO STATION 64+00



CARTER & BURGESS, INC.  
 7550 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961



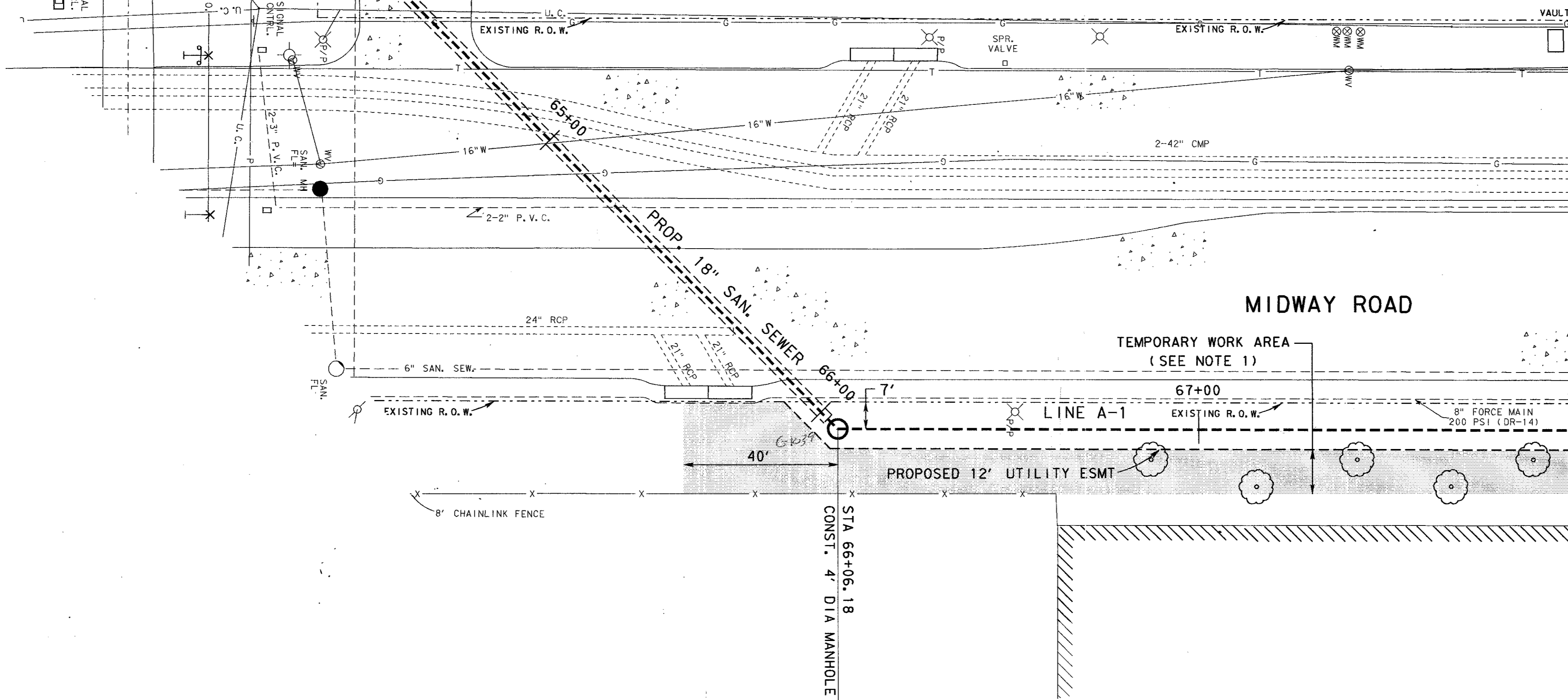
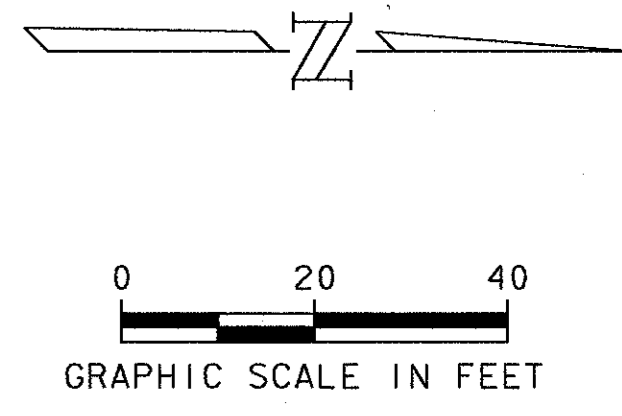
Unit	Scale	Hor 1/2"	Ver 1"	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	18 of 63

MATCH LINE STA. 64+00

S.P. R.R.

CONCRETE REMOVAL & REPLACEMENT

STA 64+28.53  
CONST. 4' DIA MANHOLE  
CONST. TO MAINT. ACCESS  
IN DRIVE



MATCH LINE STA. 68+00

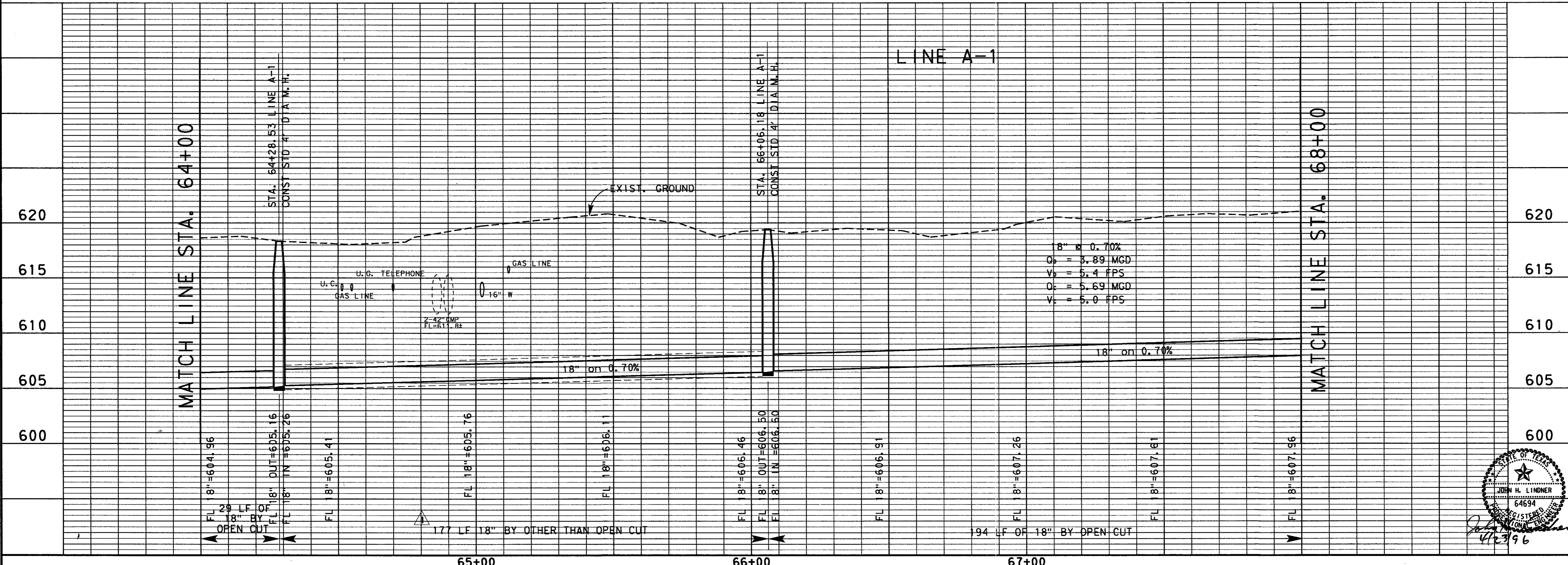
NOTE:  
1. CONTRACTOR SHALL REMOVE AND REPLACE WEST ROW OF EXISTING TREES AS NECESSARY TO INSTALL PROPOSED SEWER LINE AND SHALL CONSTRUCT TEMPORARY FENCING TO PROTECT EXIST ROW OF TREES. NOT A SEPERATE PAY ITEM.

0435  
-0051  
384  
12854 @ 350 ± 30,000

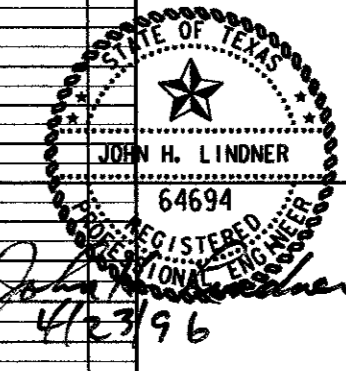
MATCH LINE STA. 64+00

LINE A-1

MATCH LINE STA. 68+00

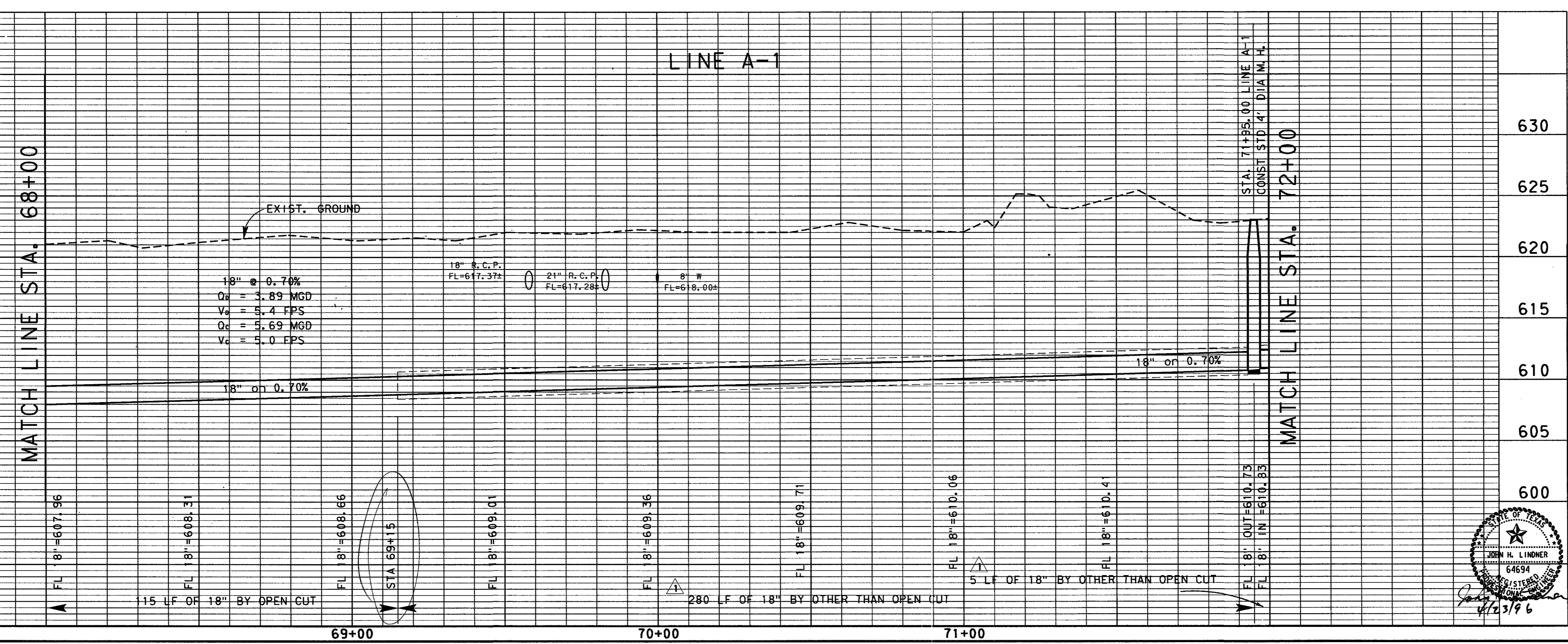
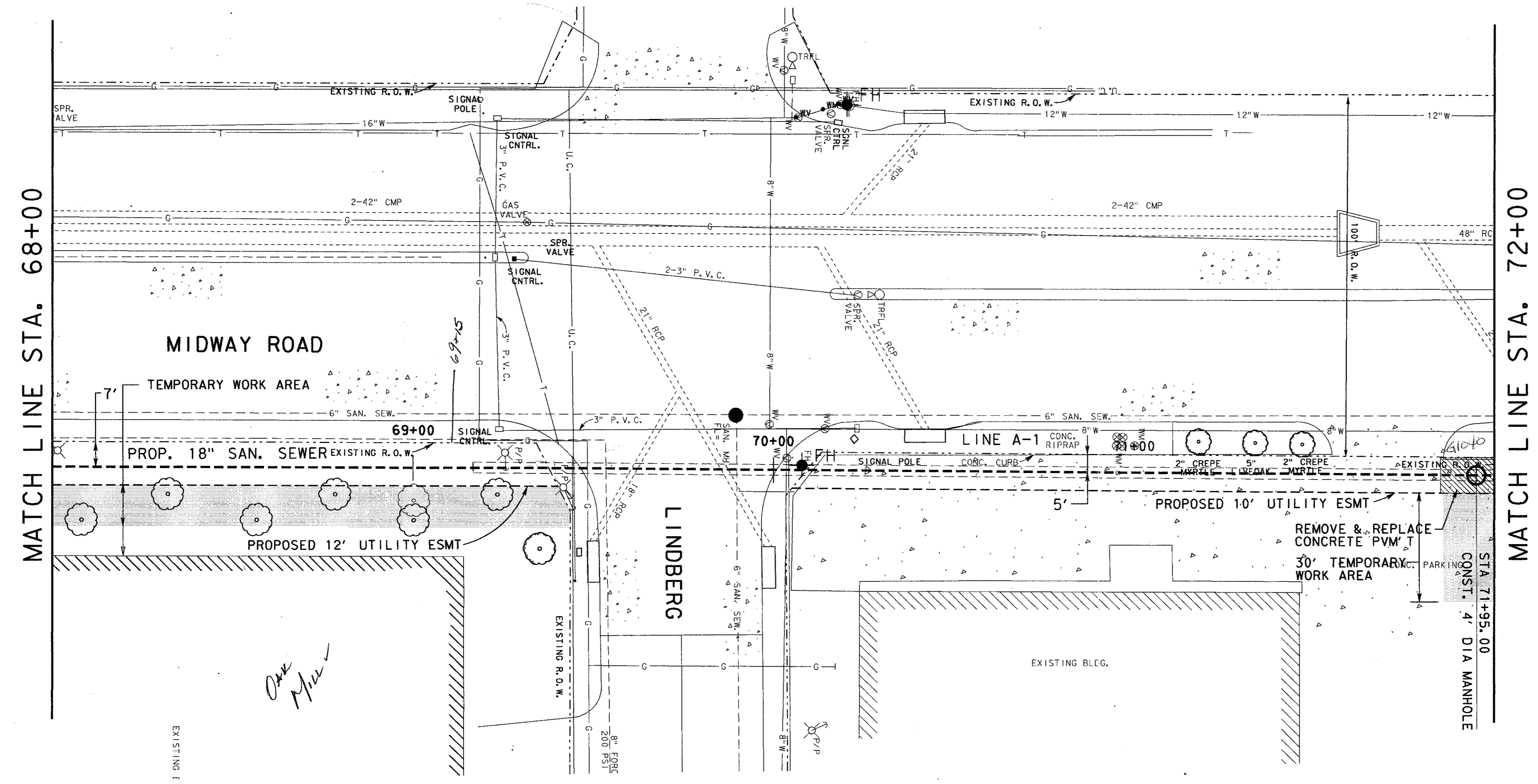
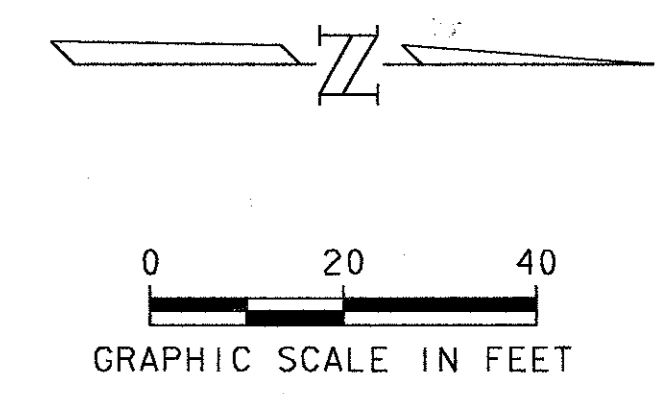


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1	4-23-96	ADDENDUM NO. 1	J. H.L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 64+00 TO STATION 68+00			
<b>Carter &amp; Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Horiz. 1" = 20' Vert. 1" = 5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	19 of 63
32765516.DGN			



REVISIONS:  
 NO. DATE BY  
 1 4-23-96 J.L.  
 2 5-1-96 J.L.  
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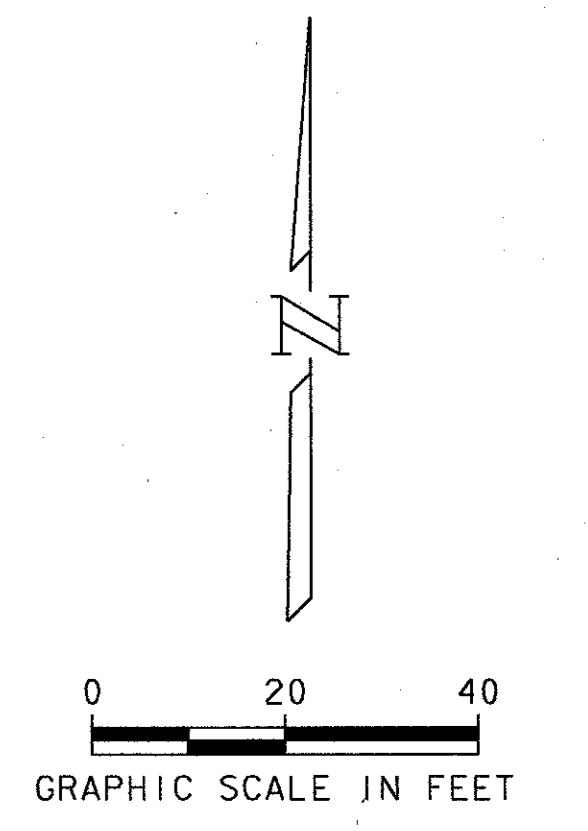
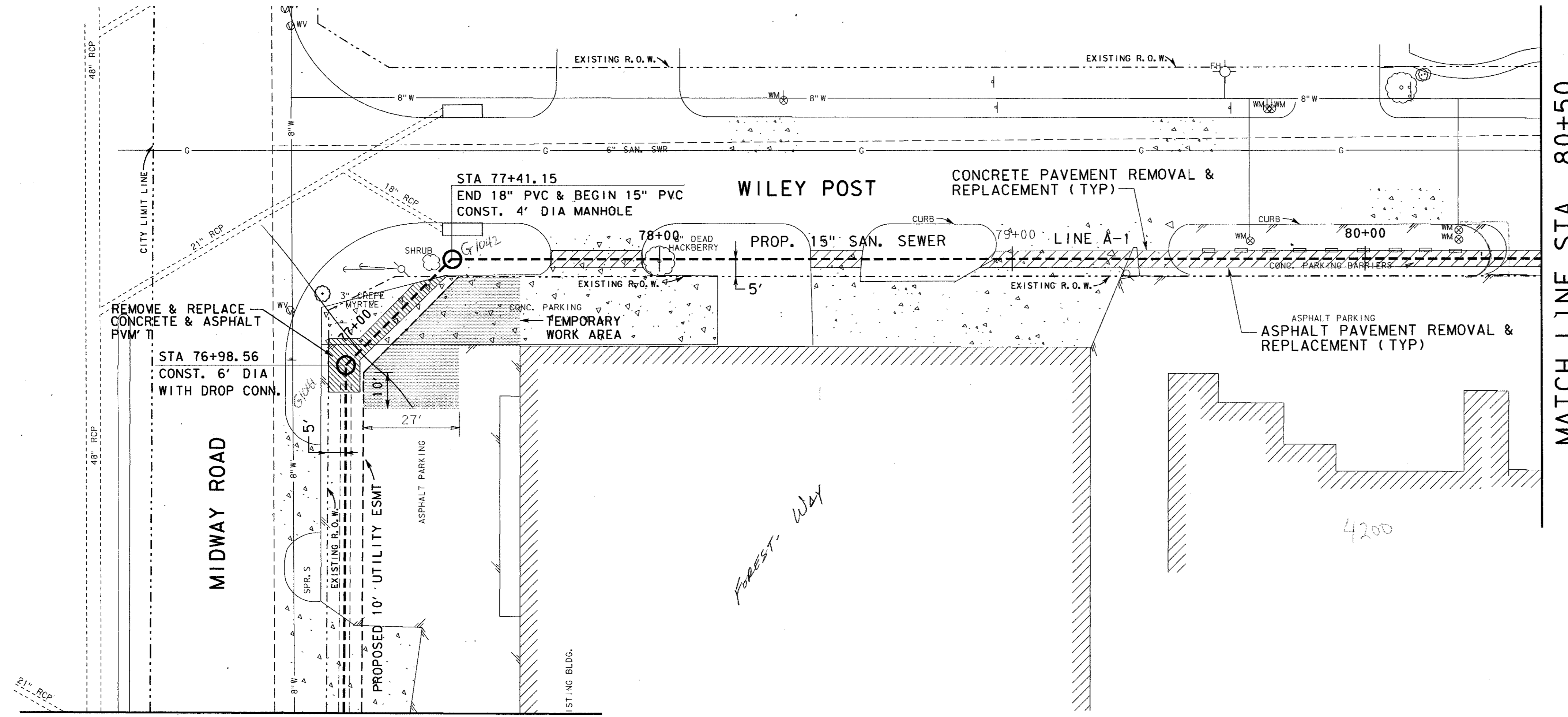
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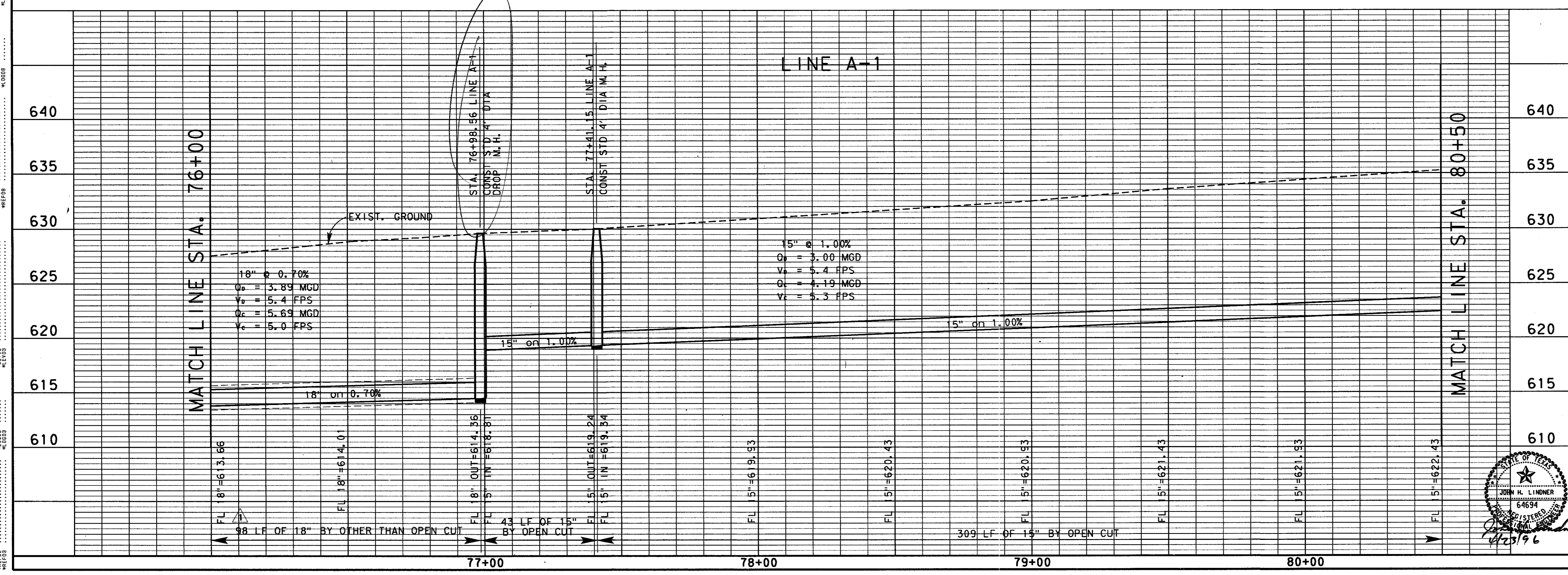
NO.	DATE	REVISION	APPROV.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 68+00 TO STATION 72+00			
<b>Carter Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked J. Lindner	Job No. 93327601D
Drawn	R. Howman	Approved J. Lindner	Sheet 20 of 63
32765517.DGN			



REVISIONS  
 NO. DATE BY  
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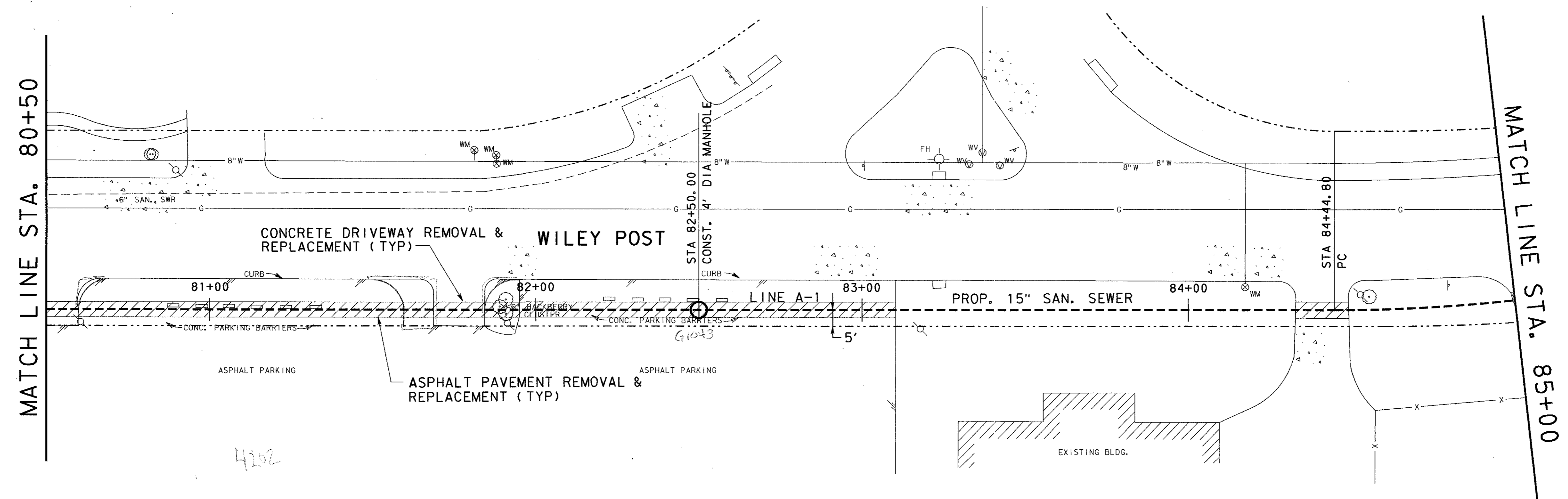
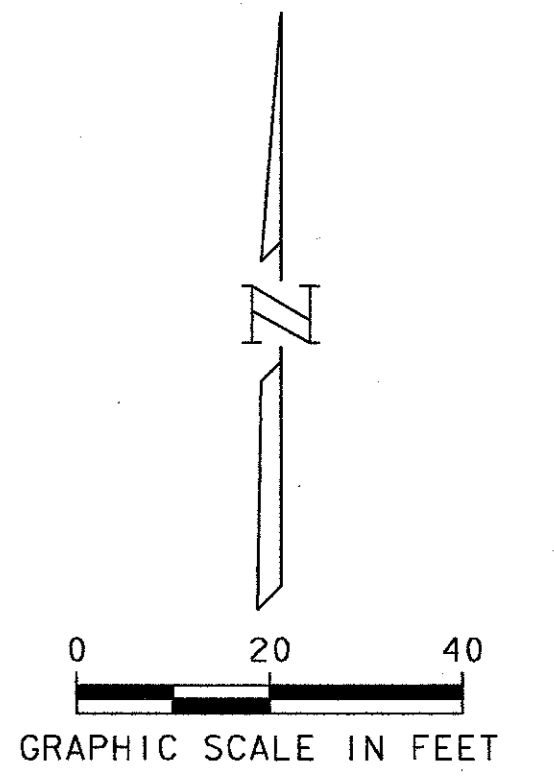


NOTE:  
 1. CONTRACTOR SHALL NOT CLOSE MORE THAN ONE DRIVEWAY TO A GIVEN BUSINESS AT A TIME. IMMEDIATELY UPON PIPE INSTALLATION, CONTRACTOR SHALL BACKFILL AND PLACE TEMPORARY ASPHALT OR STEEL PLATES, NOT A SEPARATE PAY ITEM.

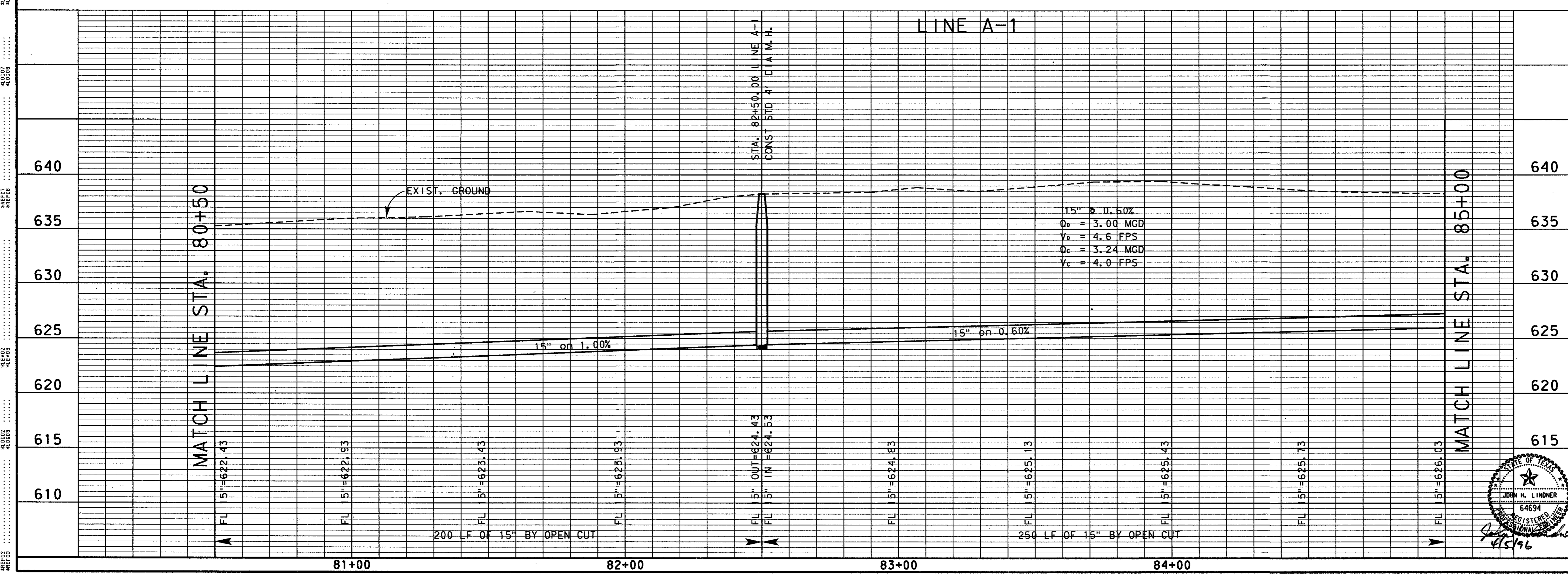


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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 76+00 TO STATION 80+50			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment CARTER &amp; BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4981</small>			
Unit	Scale	Hor: 1"=20' Vert: 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D		Sheet 22 of 63
			32765519.DGN

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NOTE:  
 1. CONTRACTOR SHALL NOT CLOSE MORE THAN ONE DRIVEWAY TO A GIVEN BUSINESS AT A TIME. IMMEDIATELY UPON PIPE INSTALLATION, CONTRACTOR SHALL BACKFILL AND PLACE TEMPORARY ASPHALT OR STEEL PLATES, NOT A SEPARATE PAY ITEM.



NO.	DATE	REVISION	APPROV.
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TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE A-1  
 FROM STATION 80+50 TO STATION 85+00

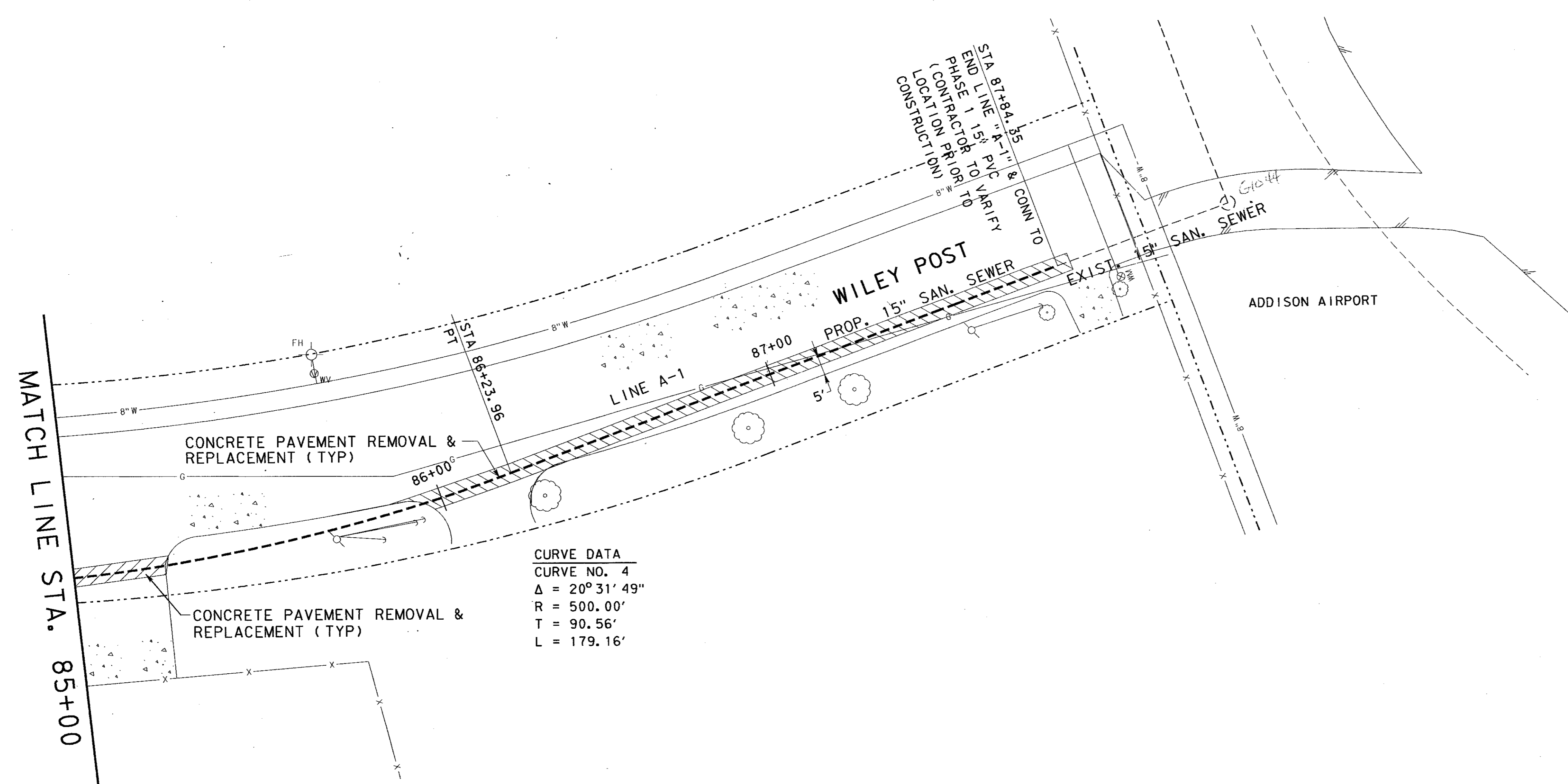
**Carter Burgess**  
 Consultants in Engineering, Architecture,  
 Planning and the Environment  
 CARTER & BURGESS, INC.  
 7950 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961

Unit	Scale	Horiz. 1"=20'	Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	23 of 63

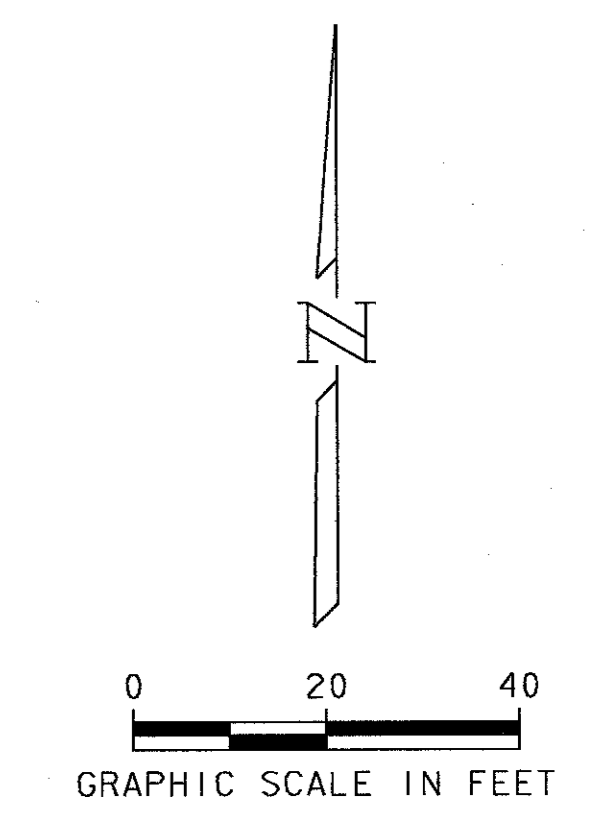
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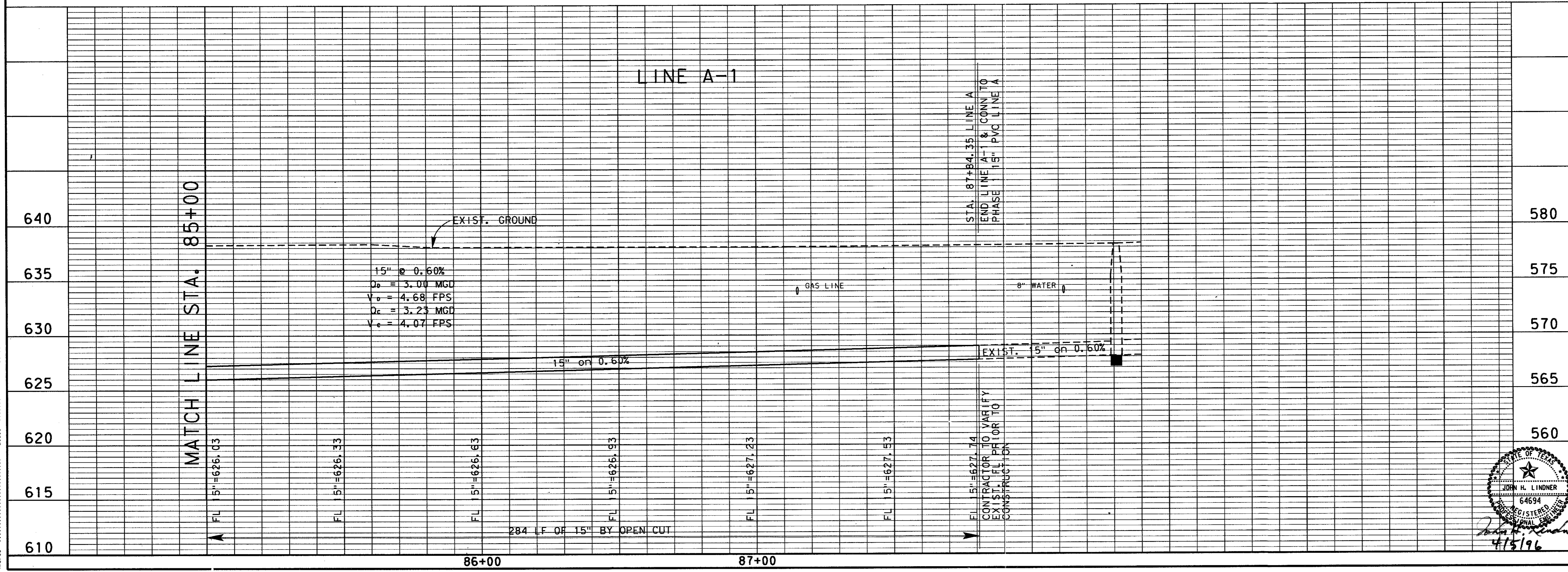
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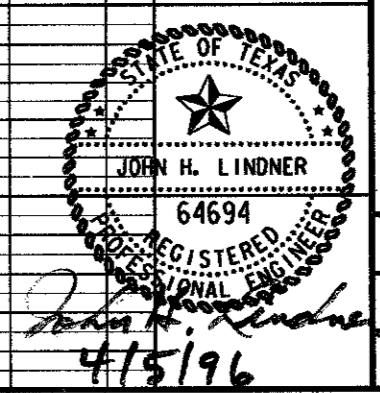
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 CURVE NO. 4  
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 $R = 500.00'$   
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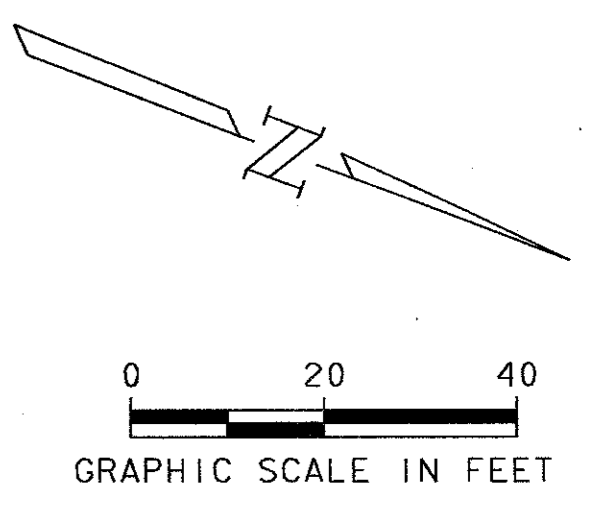
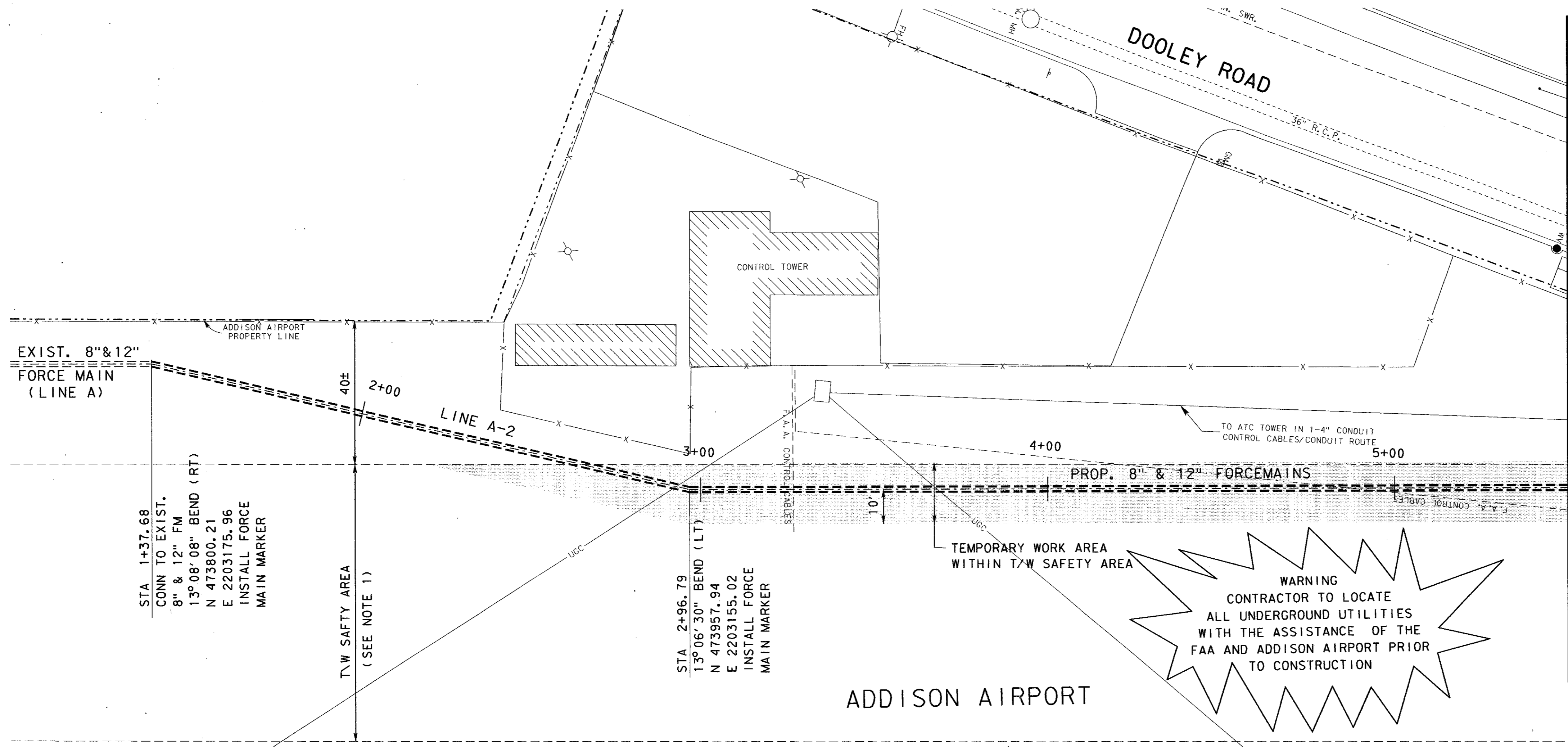
- NOTE:**
- CONTRACTOR SHALL NOT CLOSE MORE THAN ONE DRIVEWAY TO A GIVEN BUSINESS AT A TIME. IMMEDIATELY UPON PIPE INSTALLATION, CONTRACTOR SHALL BACKFILL AND PLACE TEMPORARY ASPHALT OR STEEL PLATES, NOT A SEPARATE PAY ITEM.



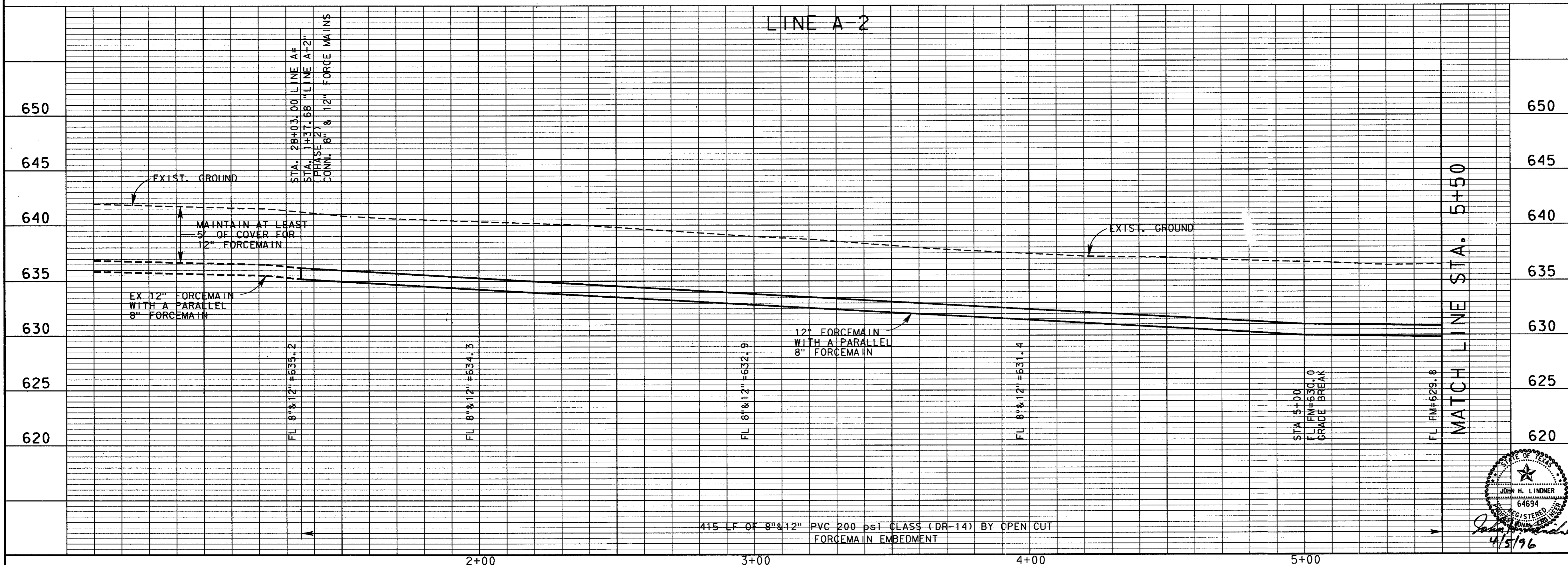
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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 85+00 TO STATION 87+84.35			
<b>Carter-Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	24 of 63



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- NOTES:
- CONTRACTOR SHALL BE PROHIBITED FROM ACCESSING OR CONDUCTING ANY ACTIVITIES WITHIN THE T/W SAFETY AREA EXCEPT IN AREAS IMMEDIATELY ADJACENT TO THE PROPOSED SEWER LINE AS SHOWN ON THE PLANS.
  - CONTRACTOR SHALL RESTRICT ACCESS TO CONSTRUCTION AREA FROM WILEY POST RD.



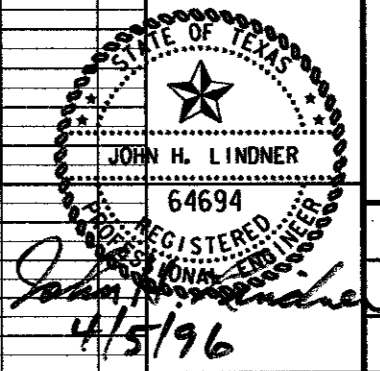
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NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II

LINE A-2  
 FROM STATION 1+37.68 TO STATION 5+50

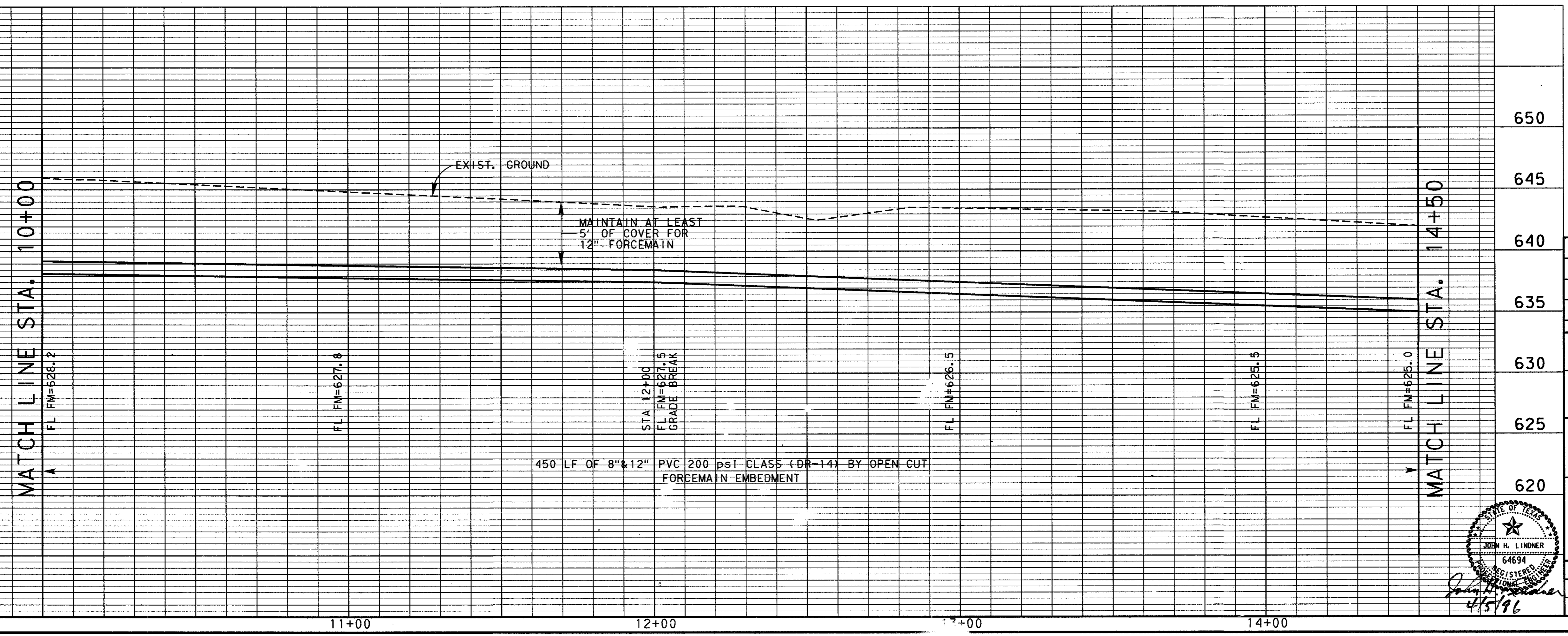
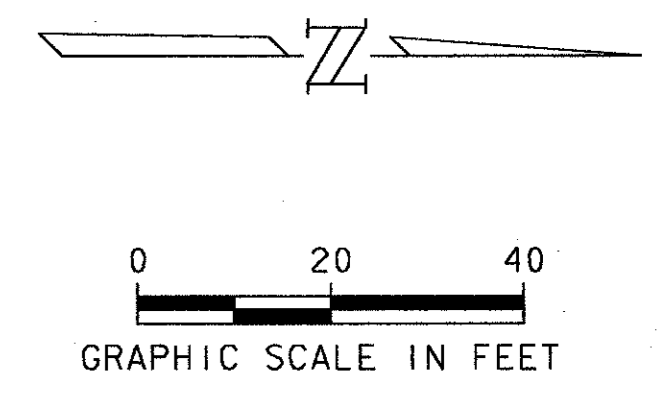
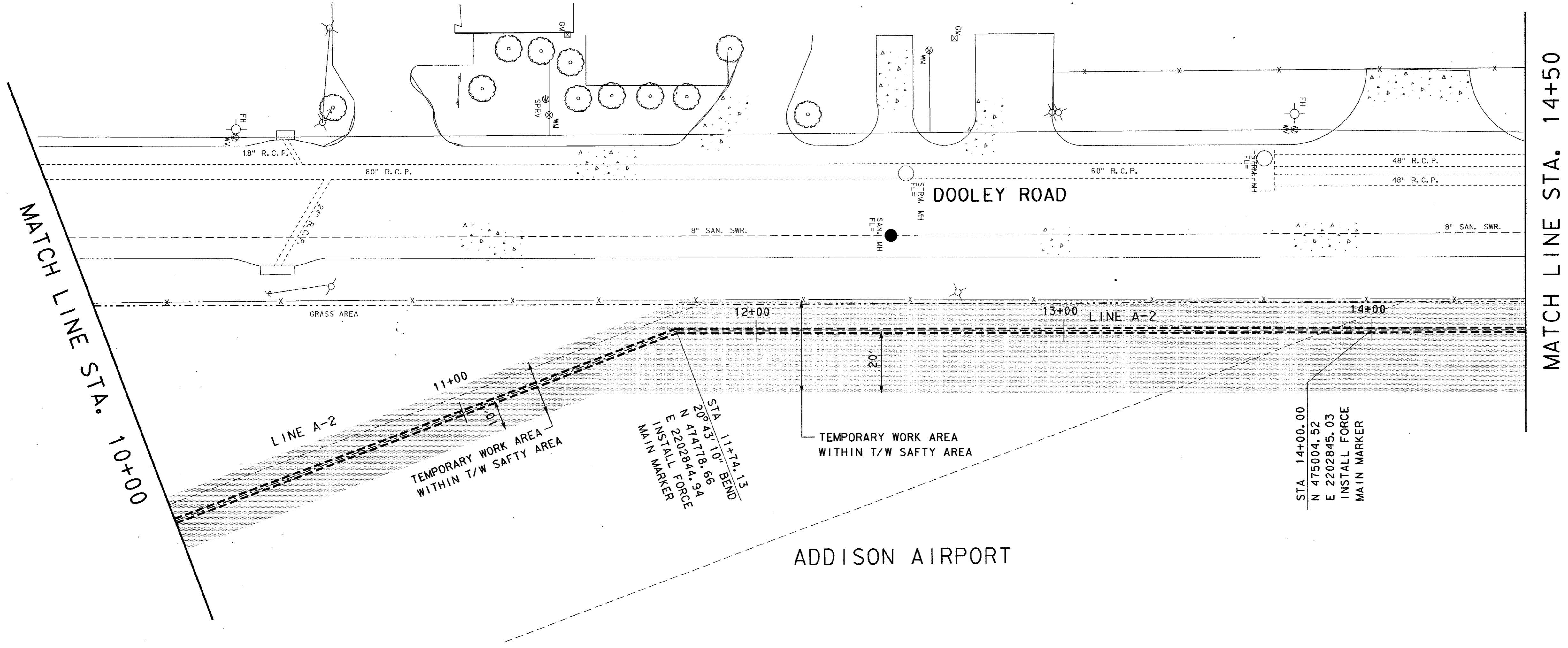


Unit	Scale	Horiz. 1"=20'	Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	25 of 63

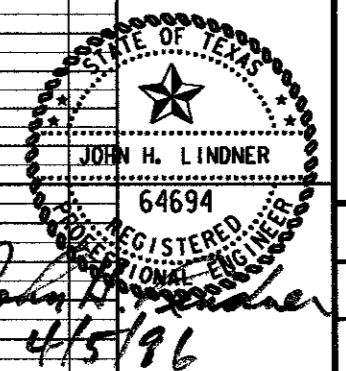




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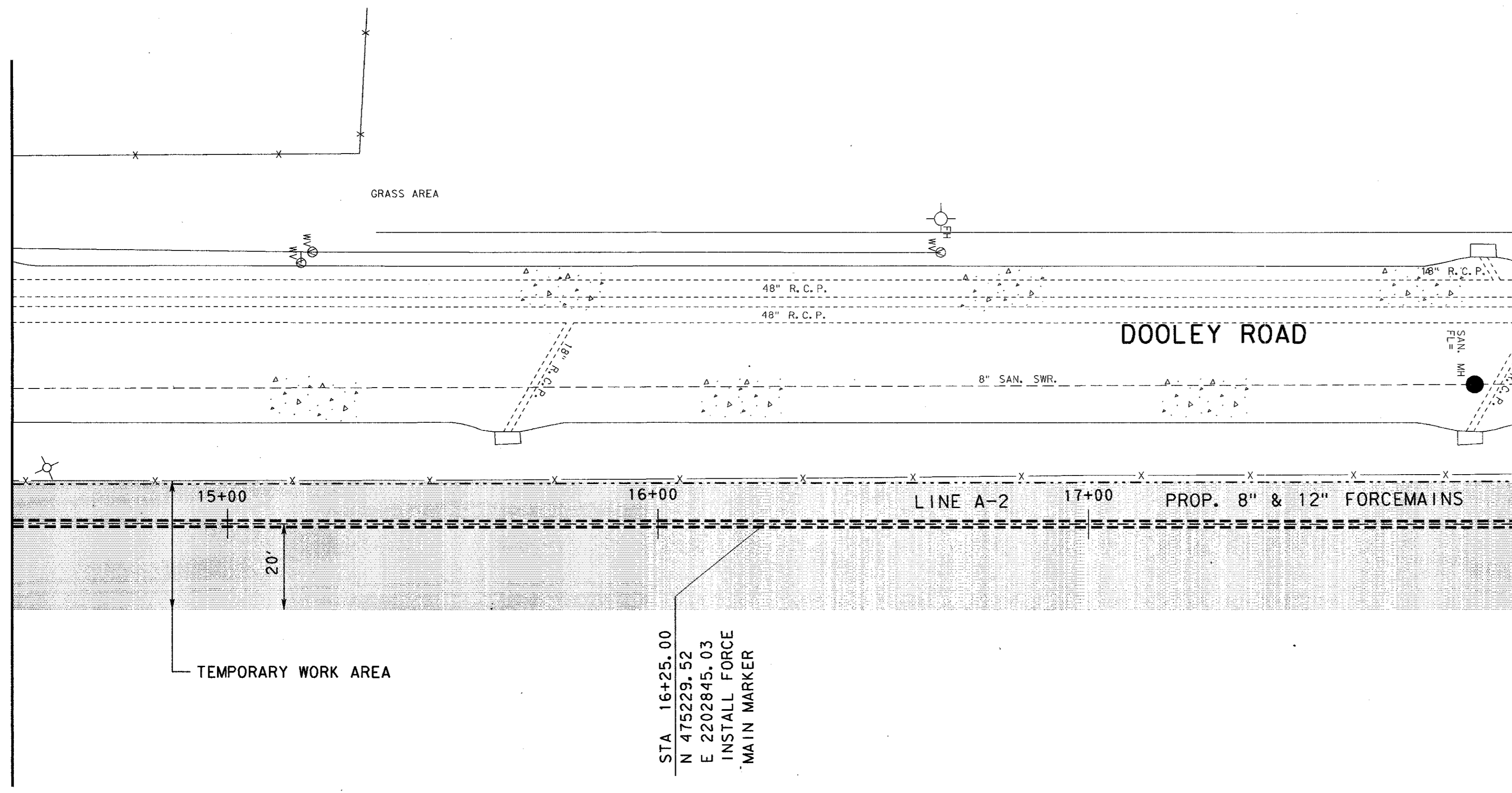


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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-2 FROM STATION 10+00 TO STATION 14+50			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment.</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Hor 1/2" = 20' Ver 1" = 5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner Sheet 27 of 63
32765330.DGN			



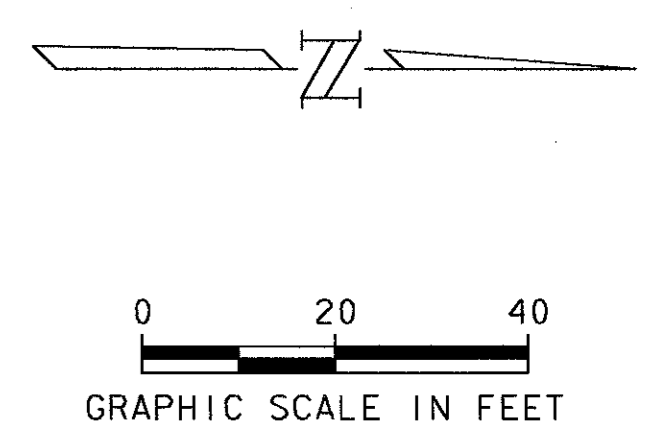
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 600  
 DISTANCE  
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 16+00  
 17+00  
 18+00

MATCH LINE STA. 14+50

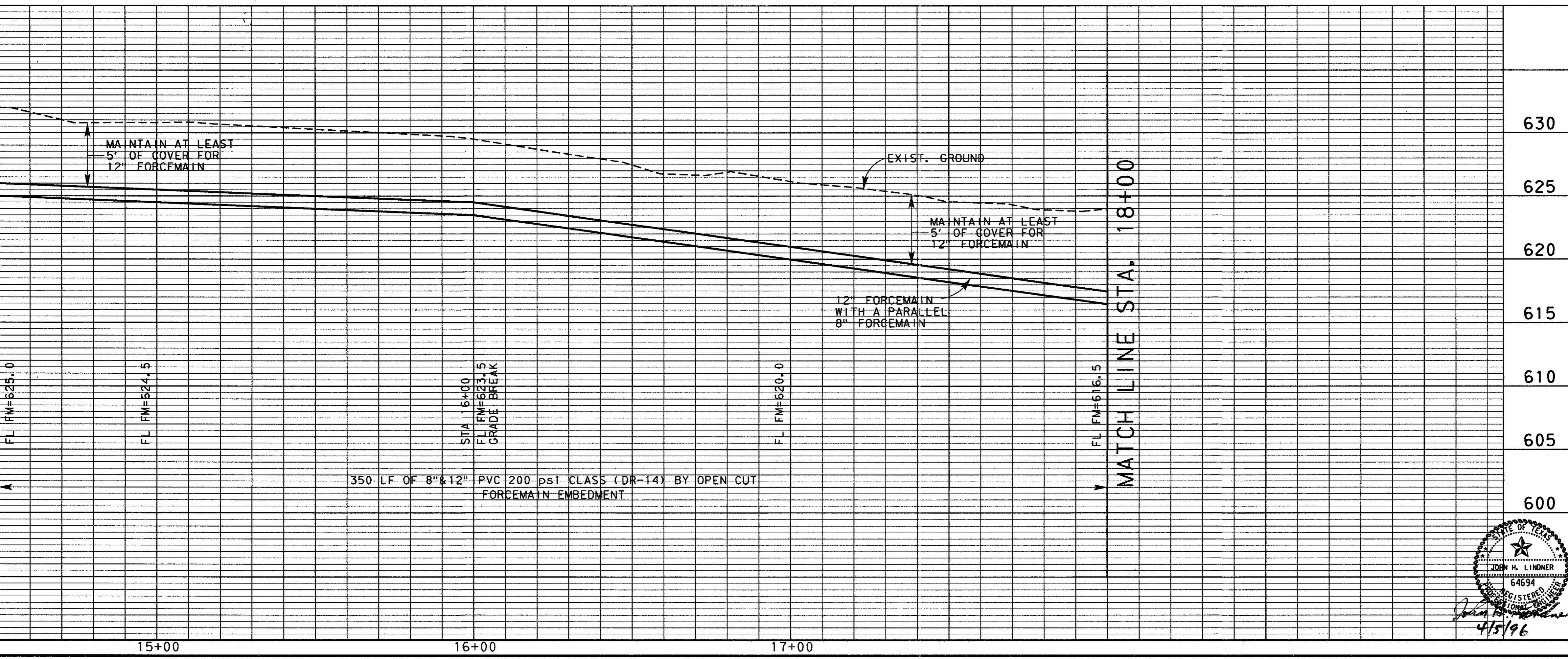


MATCH LINE STA. 18+00

ADDISON AIRPORT



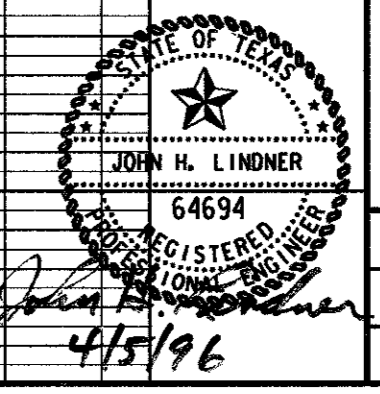
MATCH LINE STA. 14+50



MATCH LINE STA. 18+00

NO.	DATE	REVISION	APPROV.
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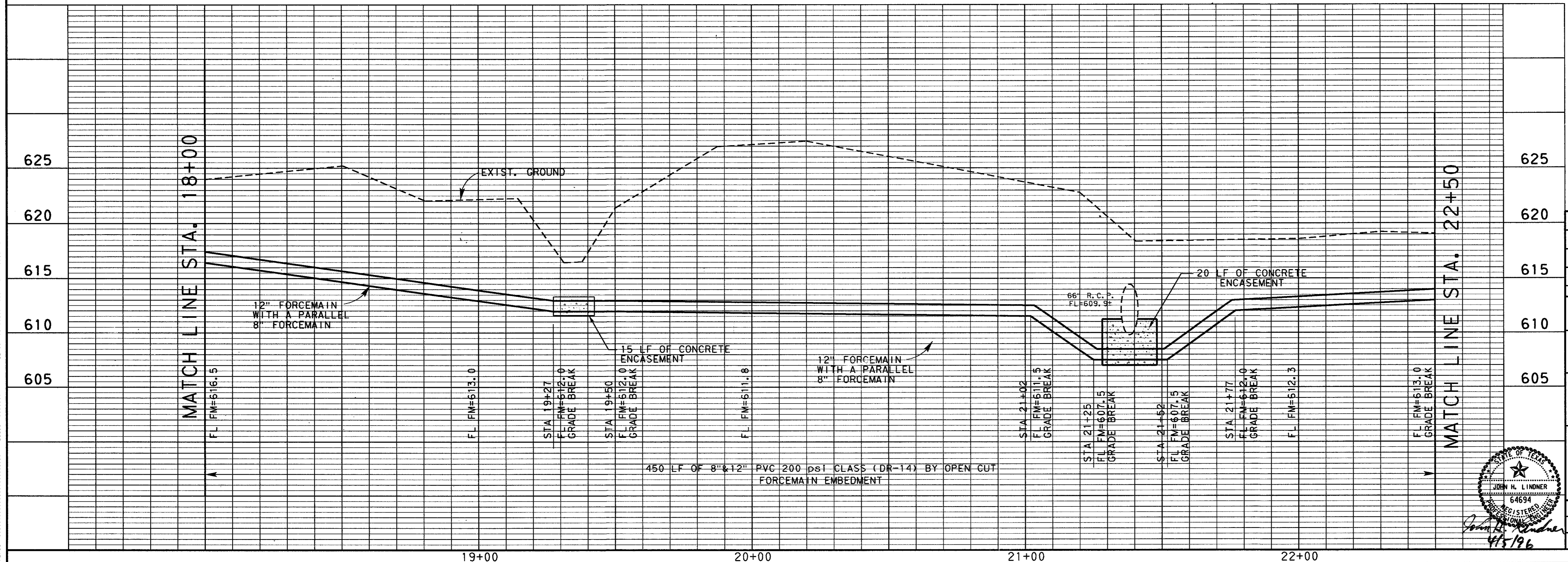
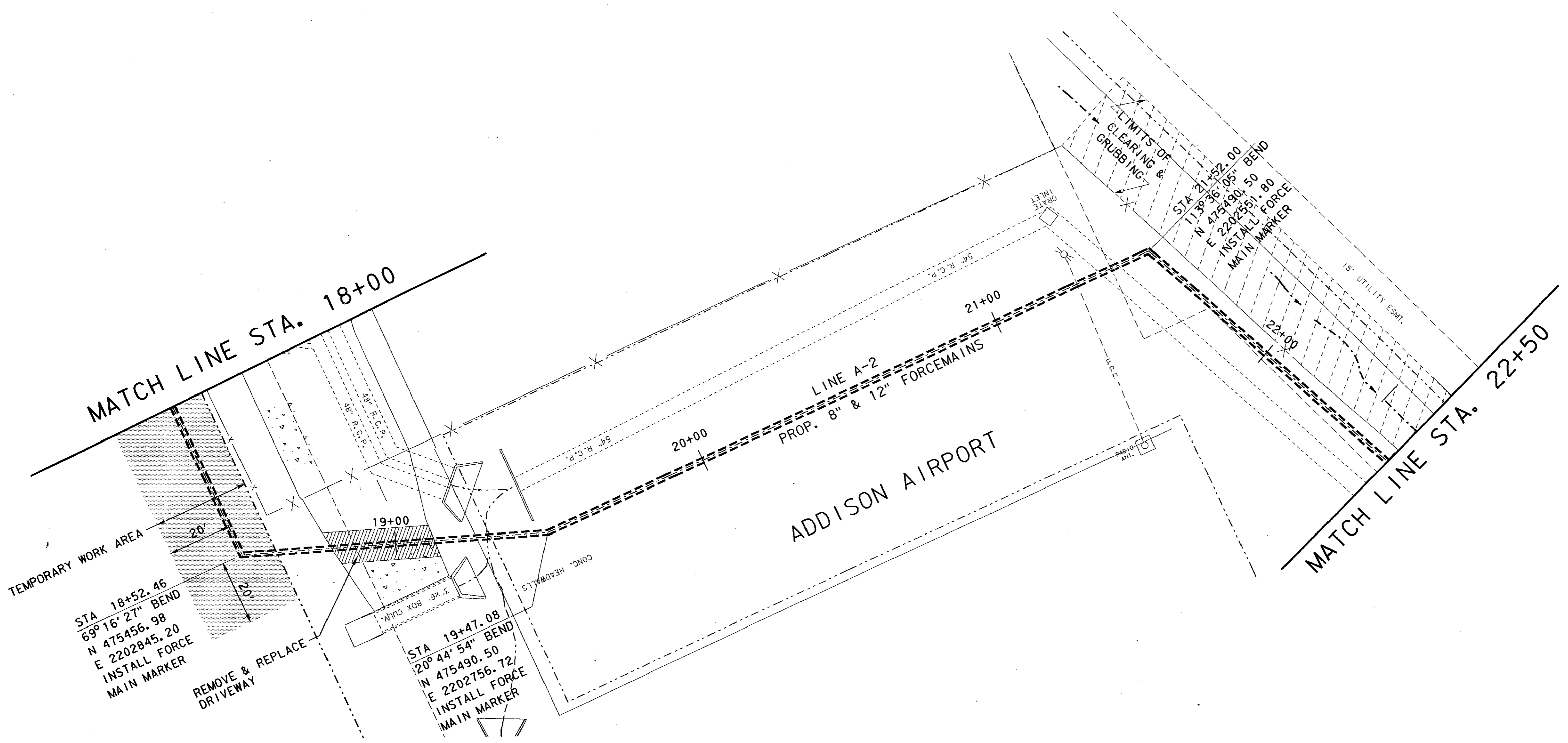
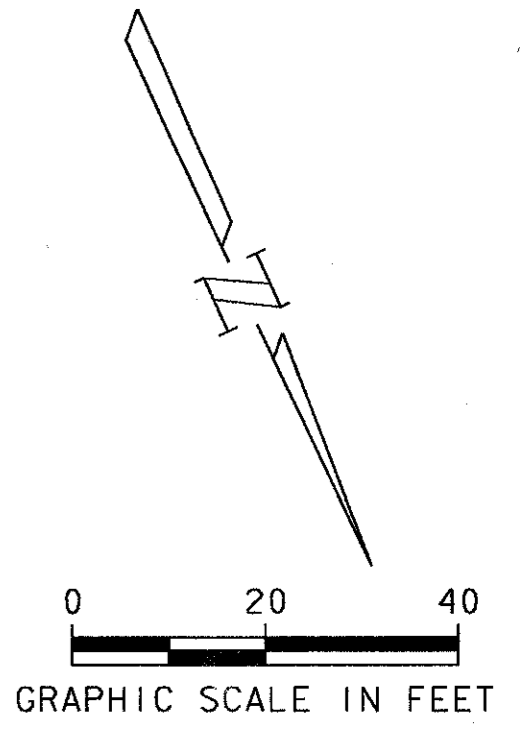
TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE A-2  
 FROM STATION 14+50 TO STATION 18+00



**Carter Burgess**  
 Consultants in Engineering, Architecture,  
 Planning and the Environment  
 CARTER & BURGESS, INC.  
 7950 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961

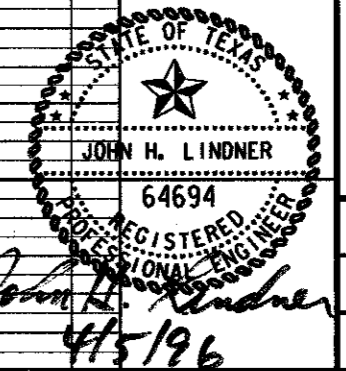
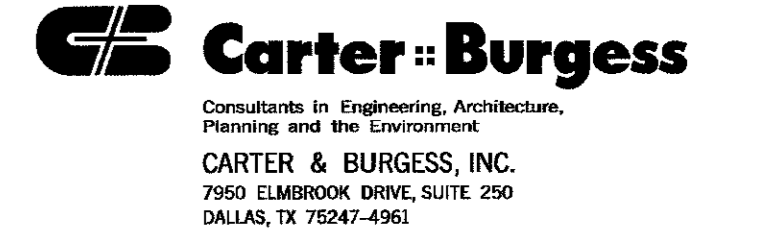
Unit	Scale	Horiz. 1"=20'	Date	04-05-96
Designed	J. Lindner	Vert. 1"=5'	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner	Job No. 93327601D
			Sheet	28 of 63

32765531.DGN



NO.	DATE	REVISION	APPROV.
4			
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TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE A-2  
 FROM STATION 18+00 TO STATION 22+50

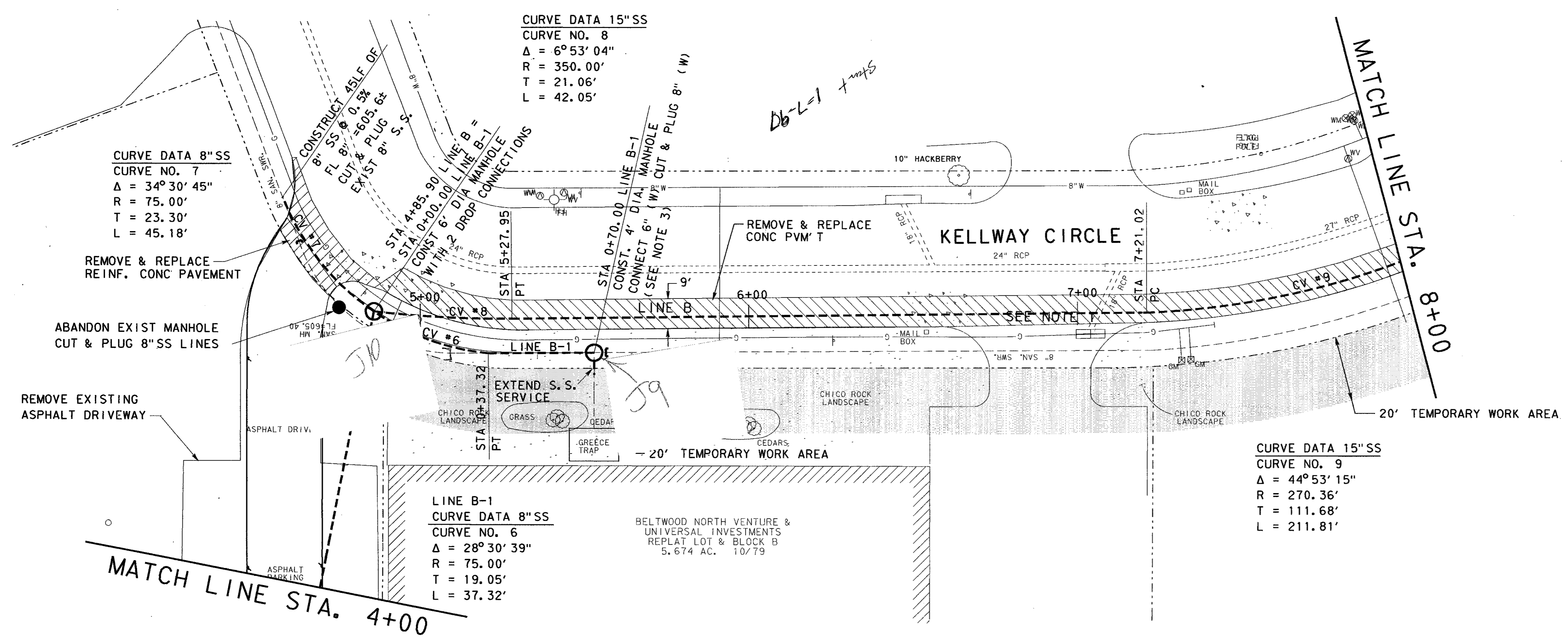
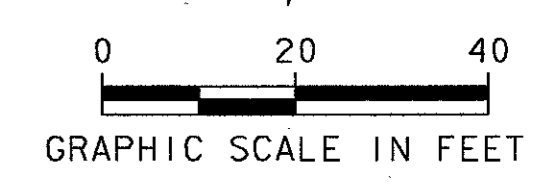


Unit	Scale	Hor. 1" = 20'	Vert. 1" = 5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	29 of 63

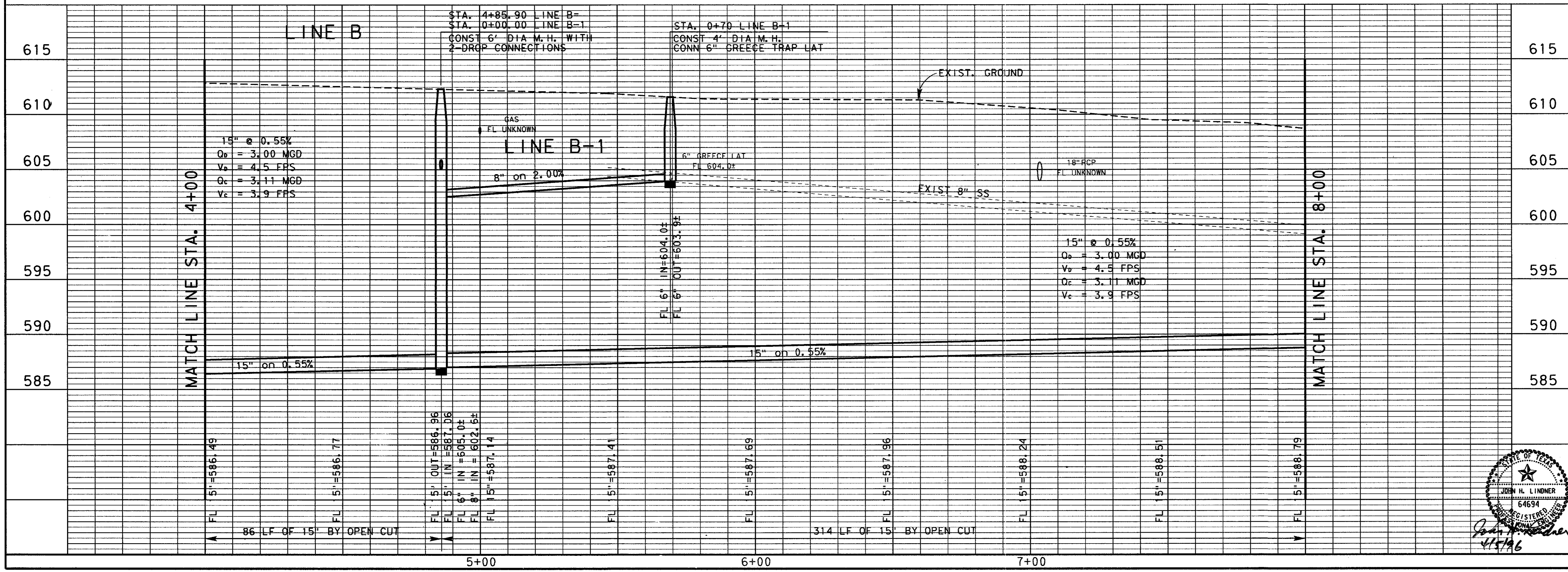








- NOTE:
1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING 8" SS. NOT A SEPERATE PAY ITEM.
  2. CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
  3. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING S. S. SERVICE PRIOR TO CONSTRUCTION.



NO.	DATE	REVISION	APPROV.
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TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE B  
 FROM STATION 4+00 TO STATION 8+00

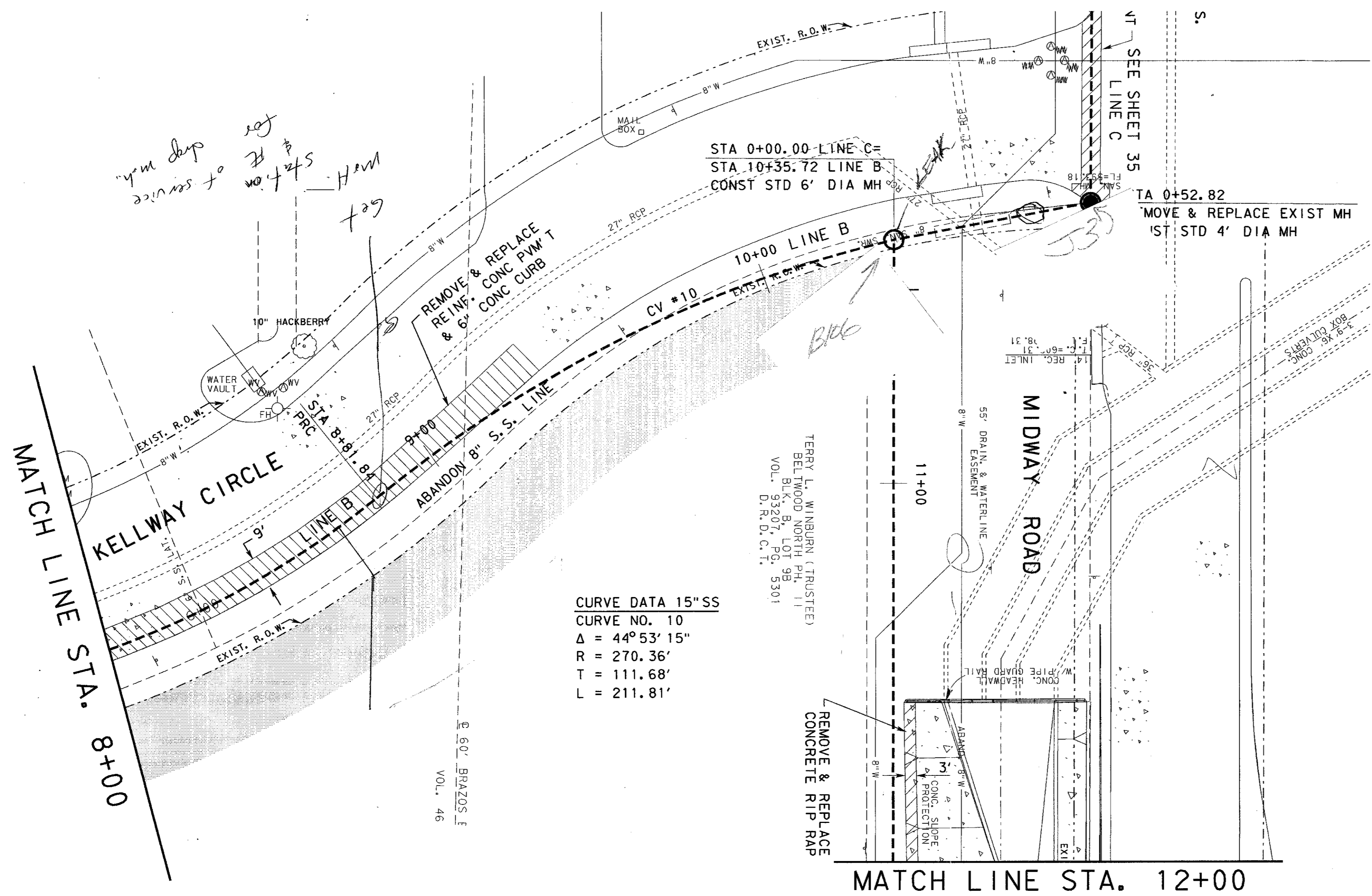
**Carter Burgess**  
 Consultants in Engineering, Architecture,  
 Planning and the Environment  
 CARTER & BURGESS, INC.  
 7950 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961

JOHN H. LINDNER  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 64694

Unit	Scale	Hor 1/2" = 20'	Ver 1" = 5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Hoffman	Approved	J. Lindner	Sheet	32 of 63

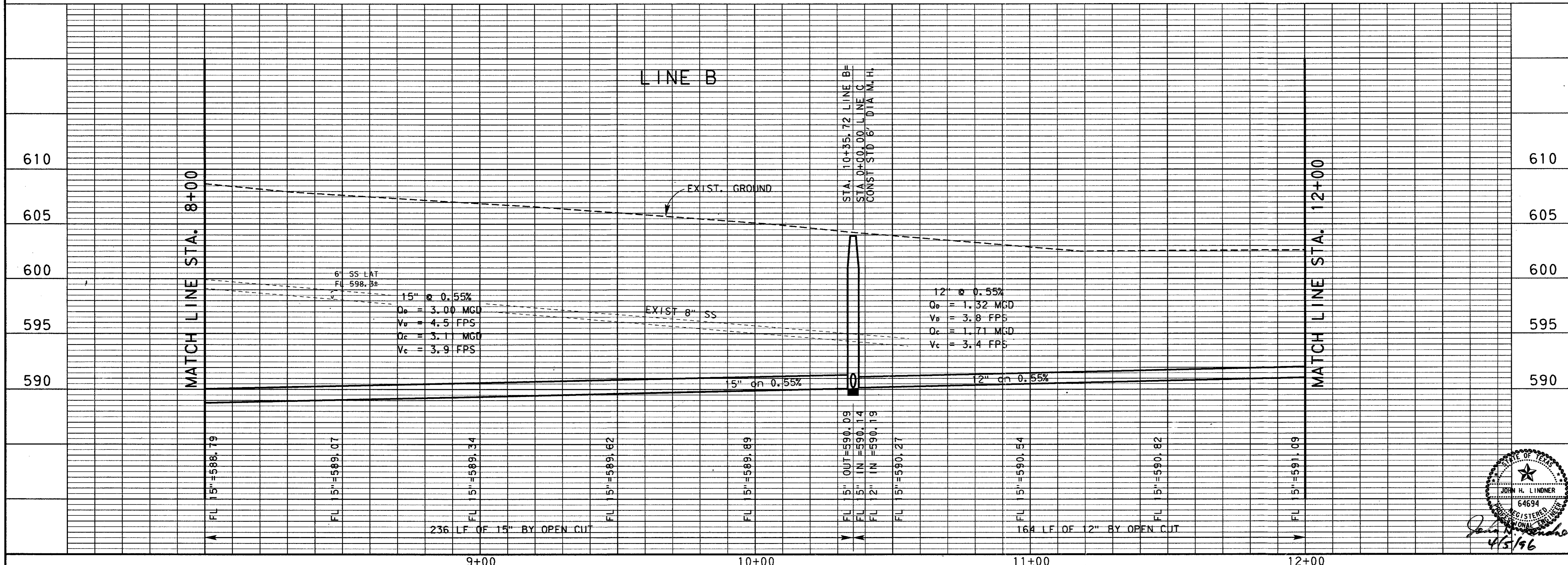
32765535.DGN

SHEET NO. 33 OF 63  
 PROJECT NO. 93327601D  
 DATE 04-05-96  
 DRAWN BY R. HOWMAN  
 CHECKED BY J. LINDNER  
 APPROVED BY J. LINDNER  
 SCALE 1"=20'  
 JOB NO. 93327601D  
 SHEET 33 OF 63



CURVE DATA 15" SS  
 CURVE NO. 10  
 $\Delta = 44^\circ 53' 15''$   
 $R = 270.36'$   
 $T = 111.68'$   
 $L = 211.81'$

NOTE:  
 CONTRACTOR SHALL REMOVE & DISPOSE OF TREES  
 AND DEBRIS LOCATED IN CREEK FROM STATION  
 9+40 TO STATION 12+60 AND GRADE.



NO.	DATE	REVISION	APPROV.
4			
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TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LINE B  
 FROM STATION 8+00 TO STATION 12+00

**Carter & Burgess**  
 Consultants in Engineering, Architecture,  
 Planning and the Environment  
 CARTER & BURGESS, INC.  
 7550 EMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961

Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date	04-05-96	
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	33 of 63

32765536.DGN  
 95/96

REVISIONS  
 NO. DATE BY  
 1 4-23-96 J. LINDNER  
 2 5-1-96 J. LINDNER  
 3 5-1-96 J. LINDNER  
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 100 5-1-96 J. LINDNER

MATCH LINE STA. 12+00

MATCH LINE STA. 12+00

FL 51=591.09

FL 51=591.37

FL 51=591.64

FL 51=591.92

STA 13+72

FL 13=592.20

STA 14+22

FL 12=592.46

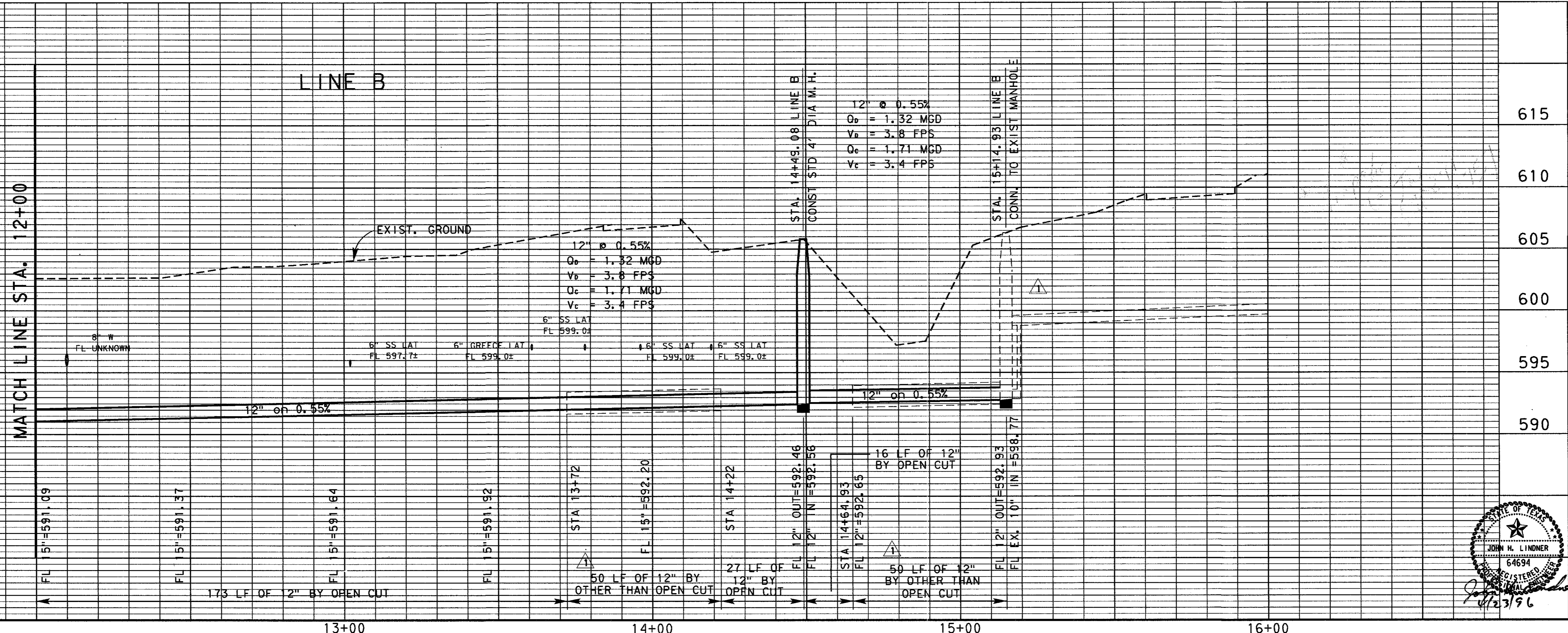
FL 12=592.56

STA 14+61.93

FL 12=592.45

STA 15+14.93

FL 12=592.77



MIDWAY ROAD

MIDWAY METER STATION TO BE ABANDONED  
473 LF NORTH, BEHIND EAST CURB  
SEE DETAIL ON SHEET 38 OF 63.

CLEAR & GRUBB DRAINAGE CHANNEL

REMOVE & REPLACE ROCK RIP RAP BANK TO IT'S ORIGINAL CONDITION (TYP.) NOT A SEPERATE PAY ITEM

SVIDLLOW-KRAMER REALTY COMPANIAN  
BELTWOOD NORTH PH. 11  
BLK. B, LOT 9A, TR. 1  
VOL. 84121, PG. 3831  
P. R. D. 11

CLEAN JOHN P. DI  
BELTWOOD NORTH  
BLK. B, LOT 1  
VOL. 88099, PG. 1146  
P. R. D. 11

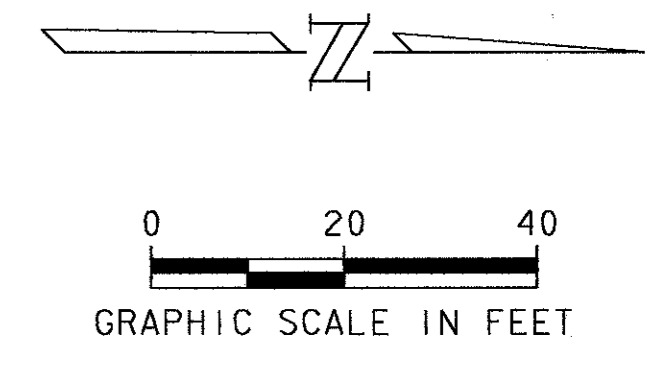
STA 14+49.08  
CONST 4" DIA

50 LF 12" BY OTHER THAN OPEN CUT

STA 15+14.93  
CONN. TO EXIST. MANHOLE

NOTE 1

*Fix -  
Mpn. Approved Fix  
(we would like Rec.)*

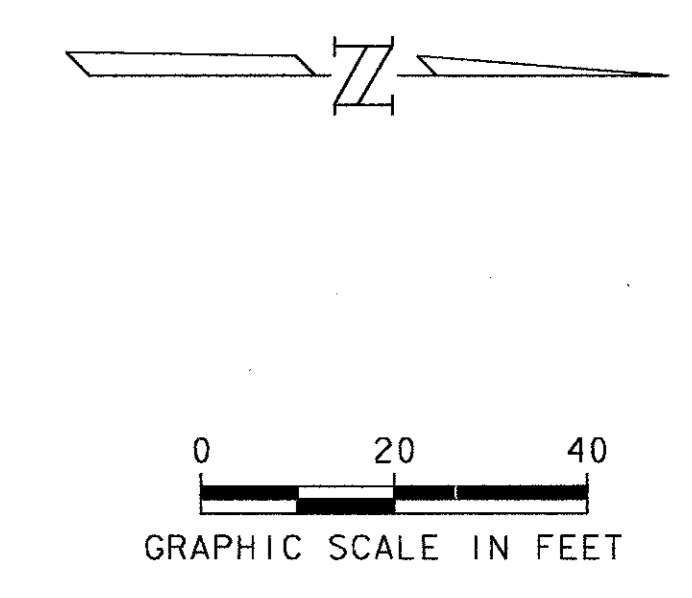
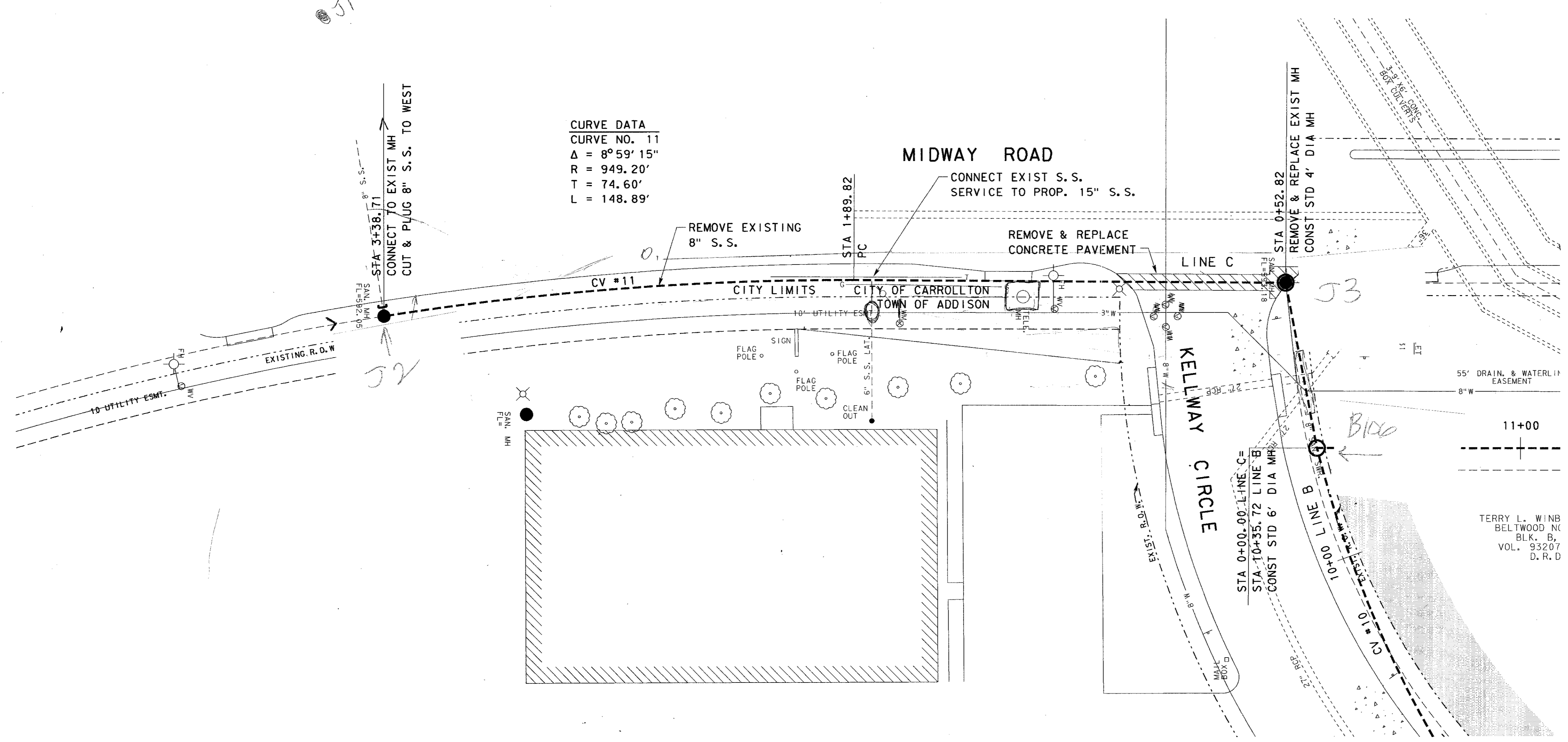


NOTE:

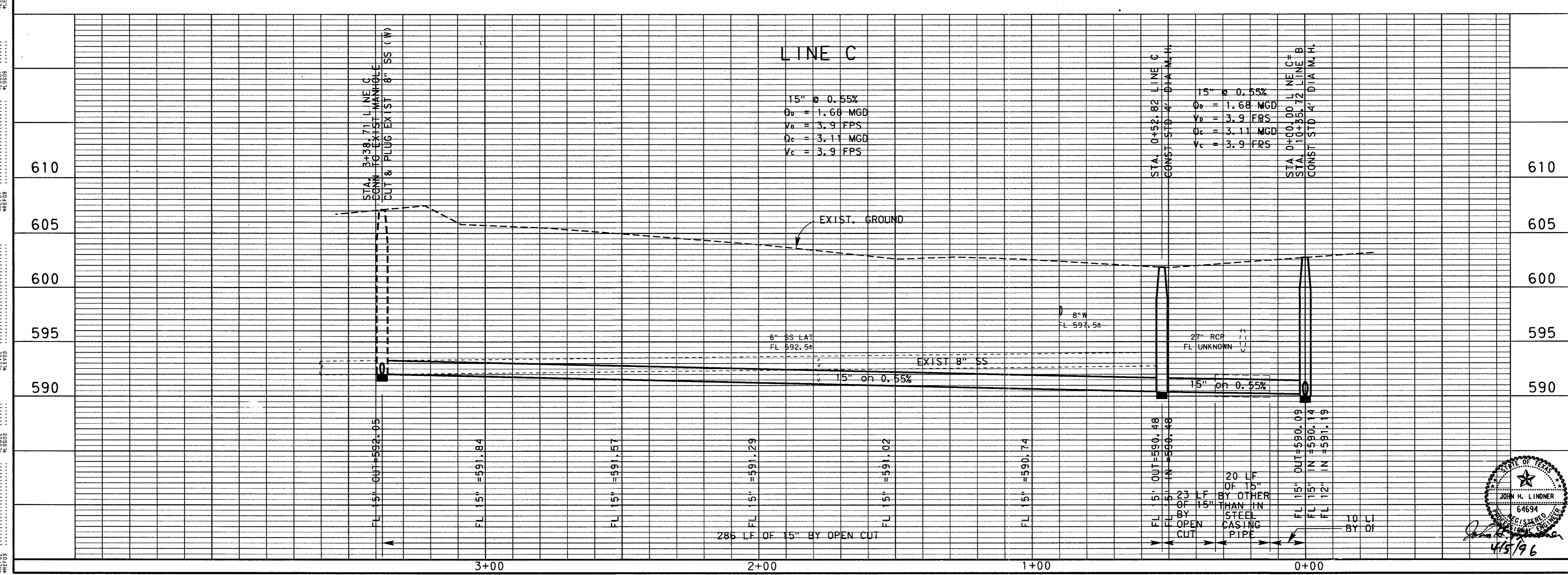
- CONTRACTOR SHALL VERIFY FL OF EXISTING 10" SS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCY TO ENGINEER.
- CONNECT ALL EXISTING SEWER SERVICES TO NEW MAIN. NOT A SEPERATE PAY ITEM.

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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>LINE B</b>			
FROM STATION 12+00 TO STATION 15+44.93			
<b>Carter &amp; Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment <b>CARTER &amp; BURGESS, INC.</b> 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-1961			
Unit	Scale	Map 12. 1"=20' Ver. 1. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	34 of 63
32765337.DGN			

ELEVATION  
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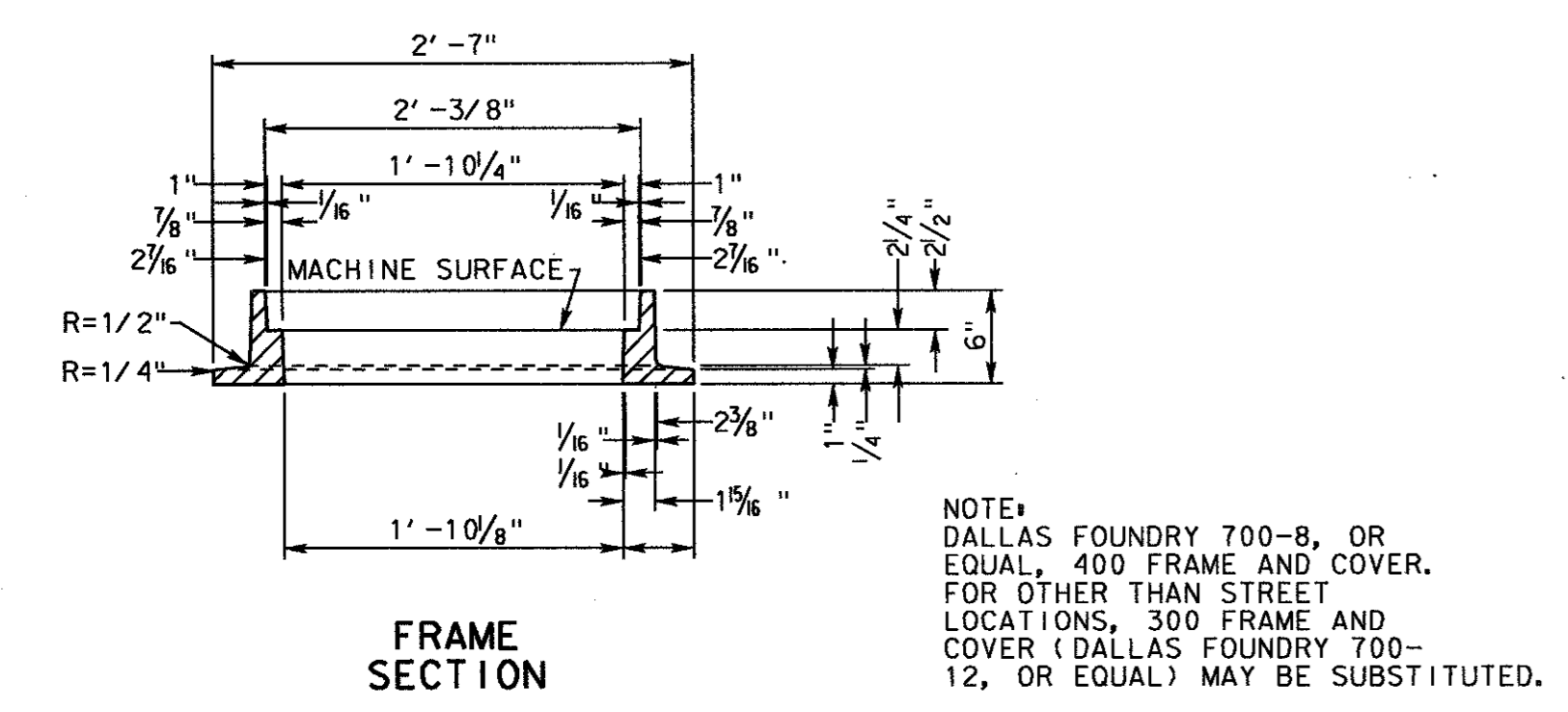
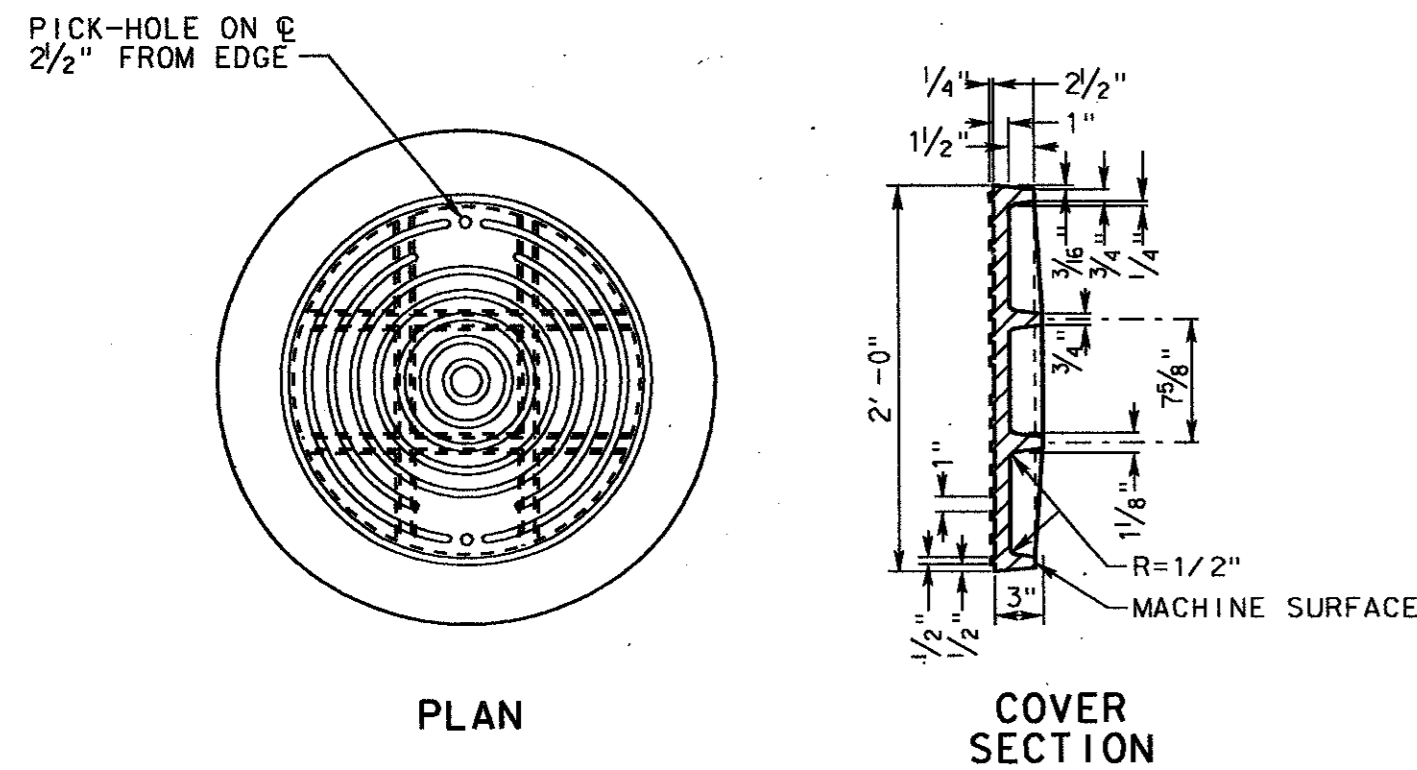


**NOTES:**  
 1. CONTRACTOR SHALL VERIFY HORIZ. & VERT. LOCATION OF EXIST SS PRIOR TO CONSTRUCTION. ANY DISCREPANCY SHALL BE REPORTED TO ENGINEER.

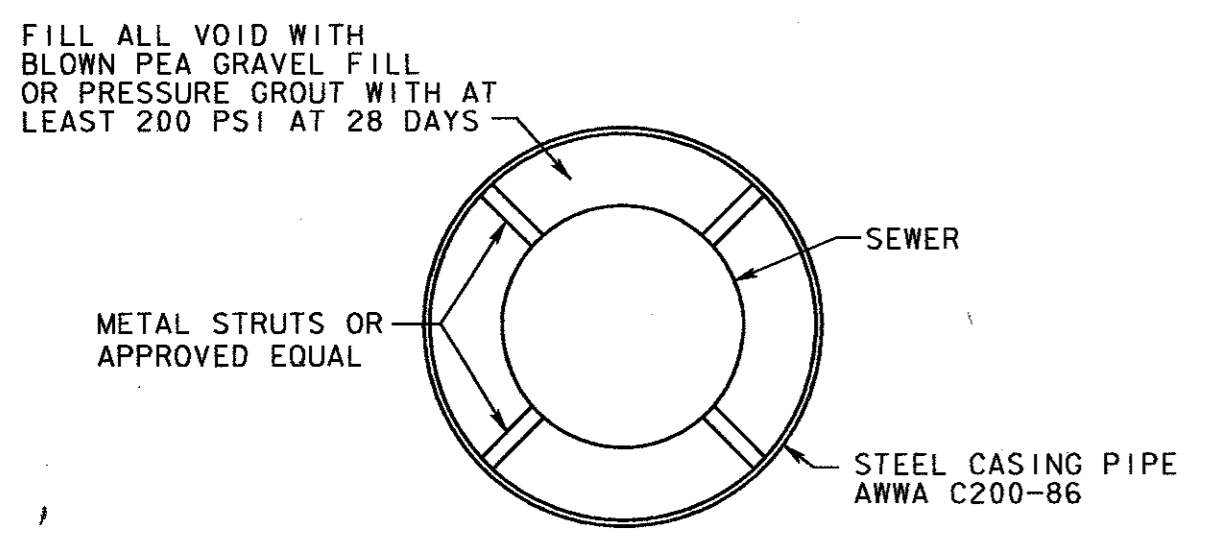


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NO.	DATE	REVISION	APPROVAL
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE C FROM STATION 00+00 TO STATION 3+73.66			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Hor. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed J. Lindner	Checked J. Lindner	Job No. 933276010	
Drawn R. Howman	Approved J. Lindner	Sheet 35 of 63	

JOHN H. LINDNER  
 64694  
 4/5/96



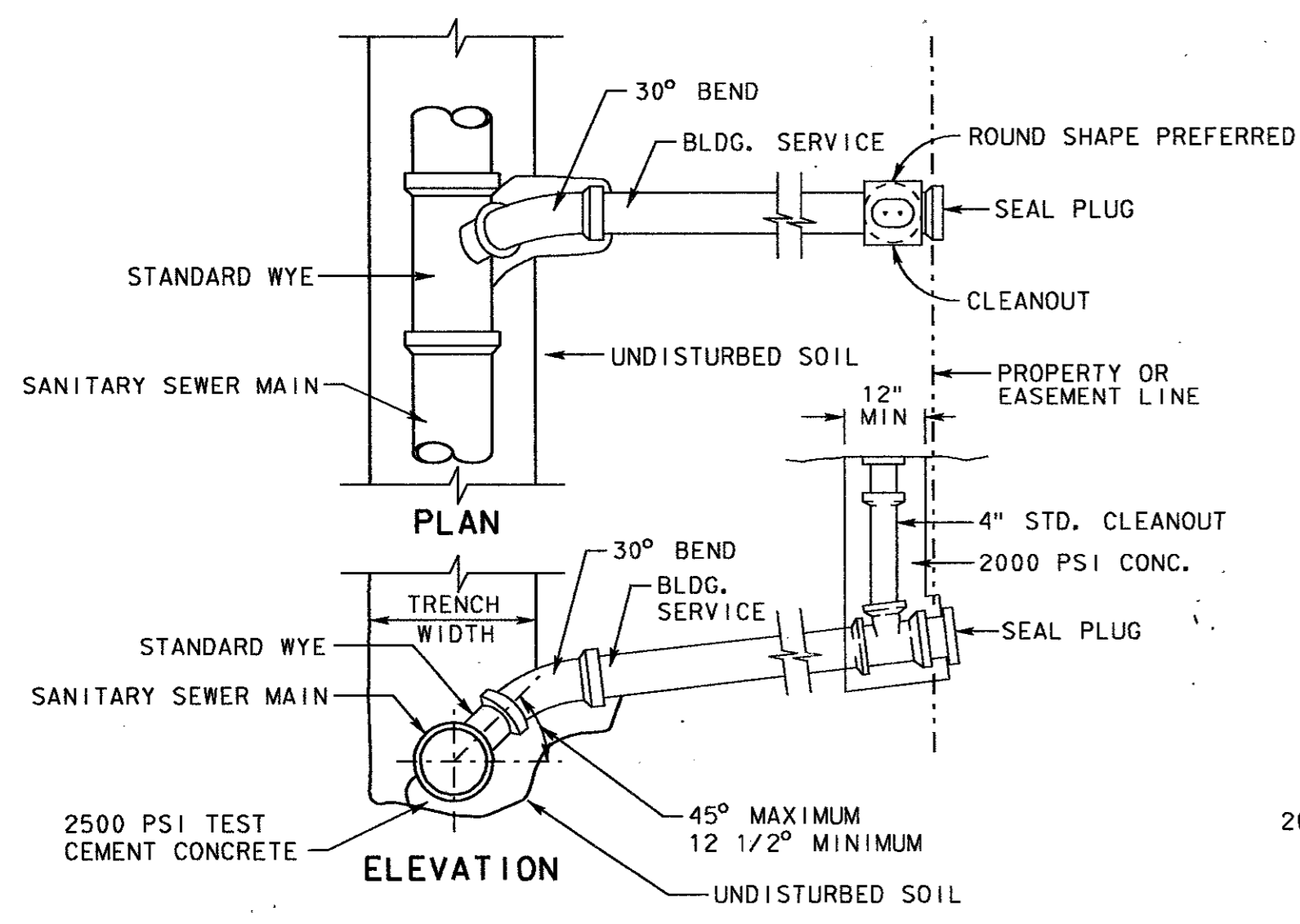
**MANHOLE COVER AND FRAME STANDARD**



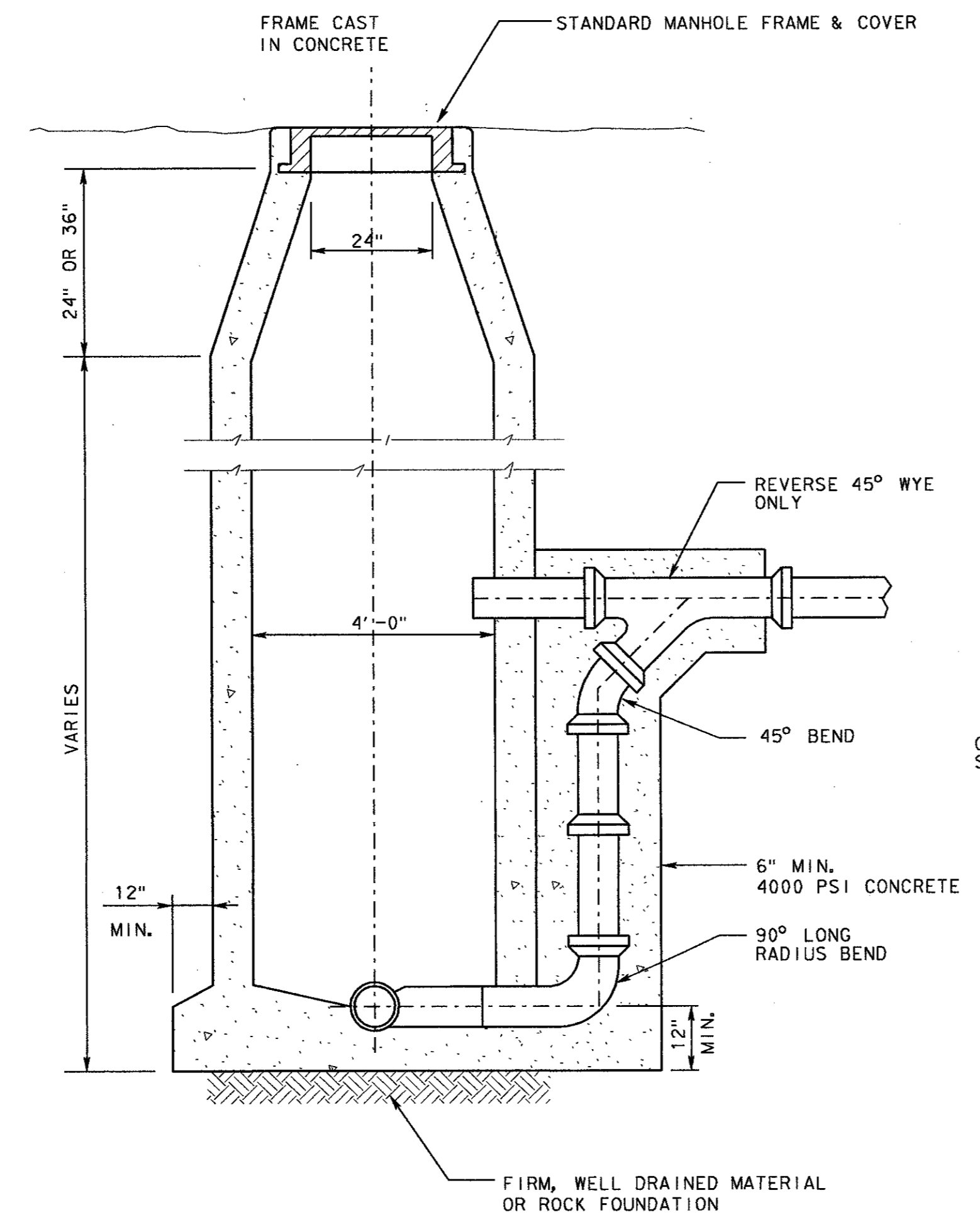
CARRIER PIPE (DIA.)	CASING PIPE (DIA.)	MIN. STEEL PIPE WALL THICKNESS
8"	16"	1/4"
12"	18"	1/4"
15"	24"	5/8"
18"	28"	5/8"
21"	30"	5/8"
24"	34"	5/8"
21"*	36"	5/8"

\* UNDER RAILROAD

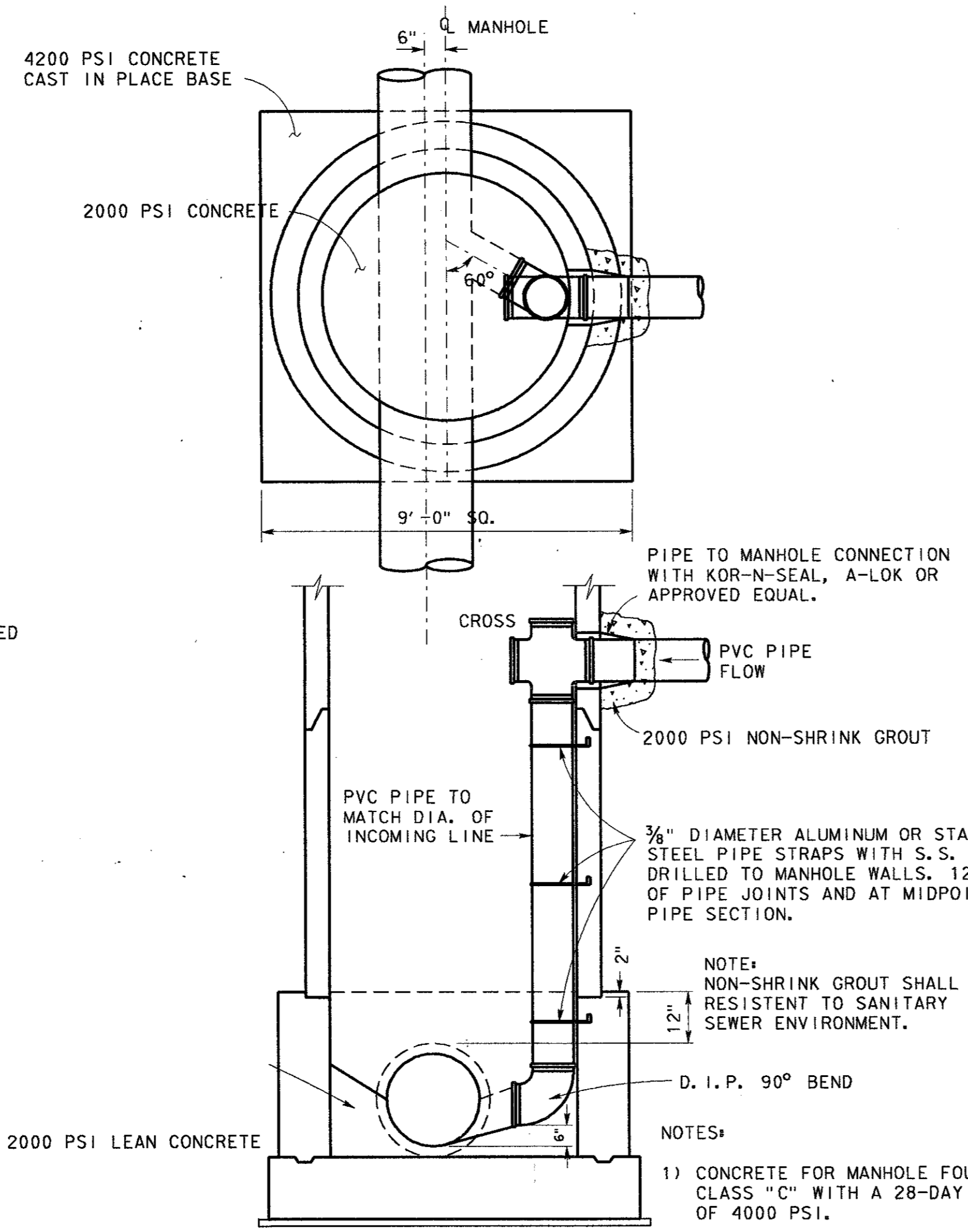
**CASING DETAIL FOR BORING**



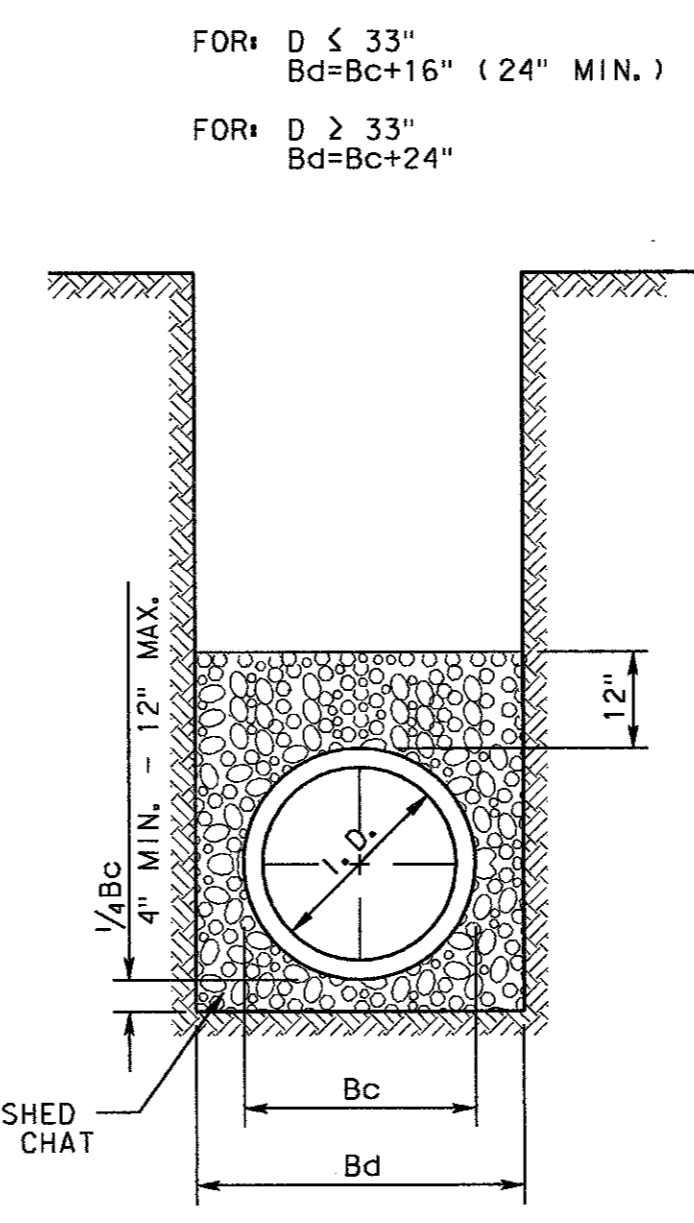
**SERVICE CONNECTION STANDARD**



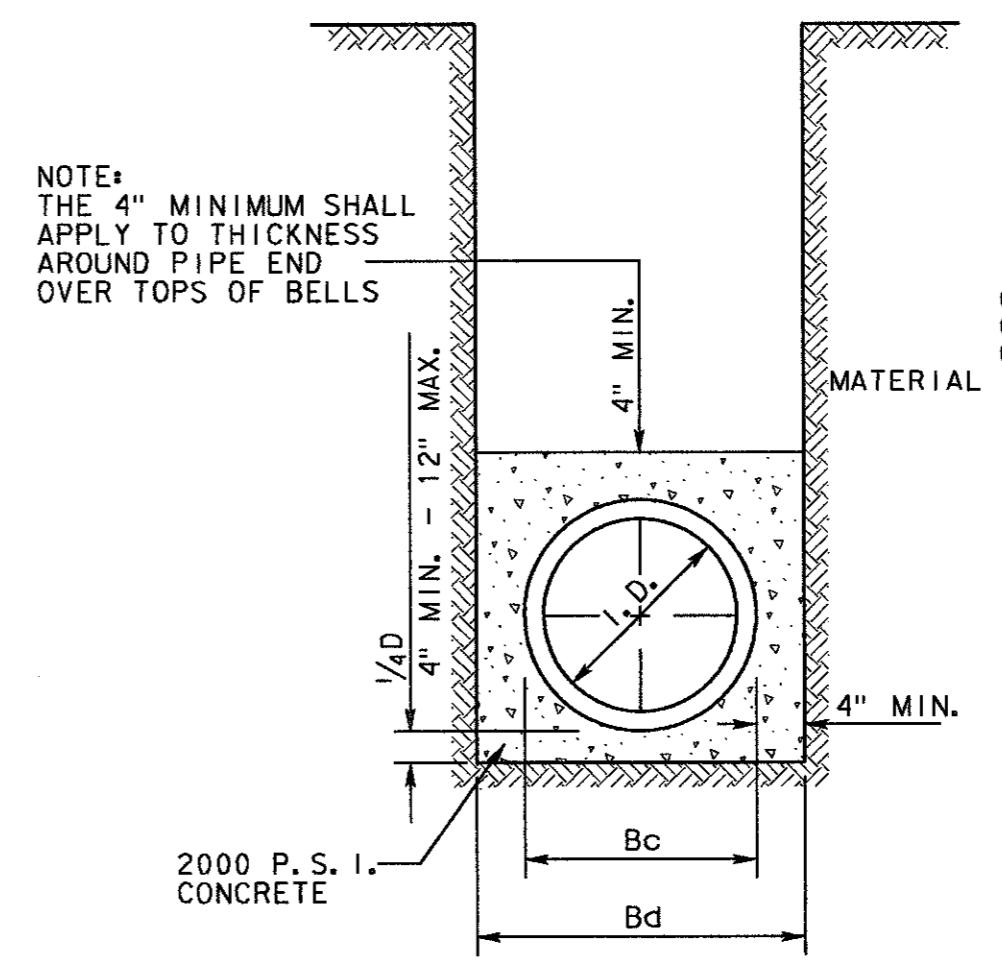
**STANDARD 4' DROP CONNECTION MANHOLE**



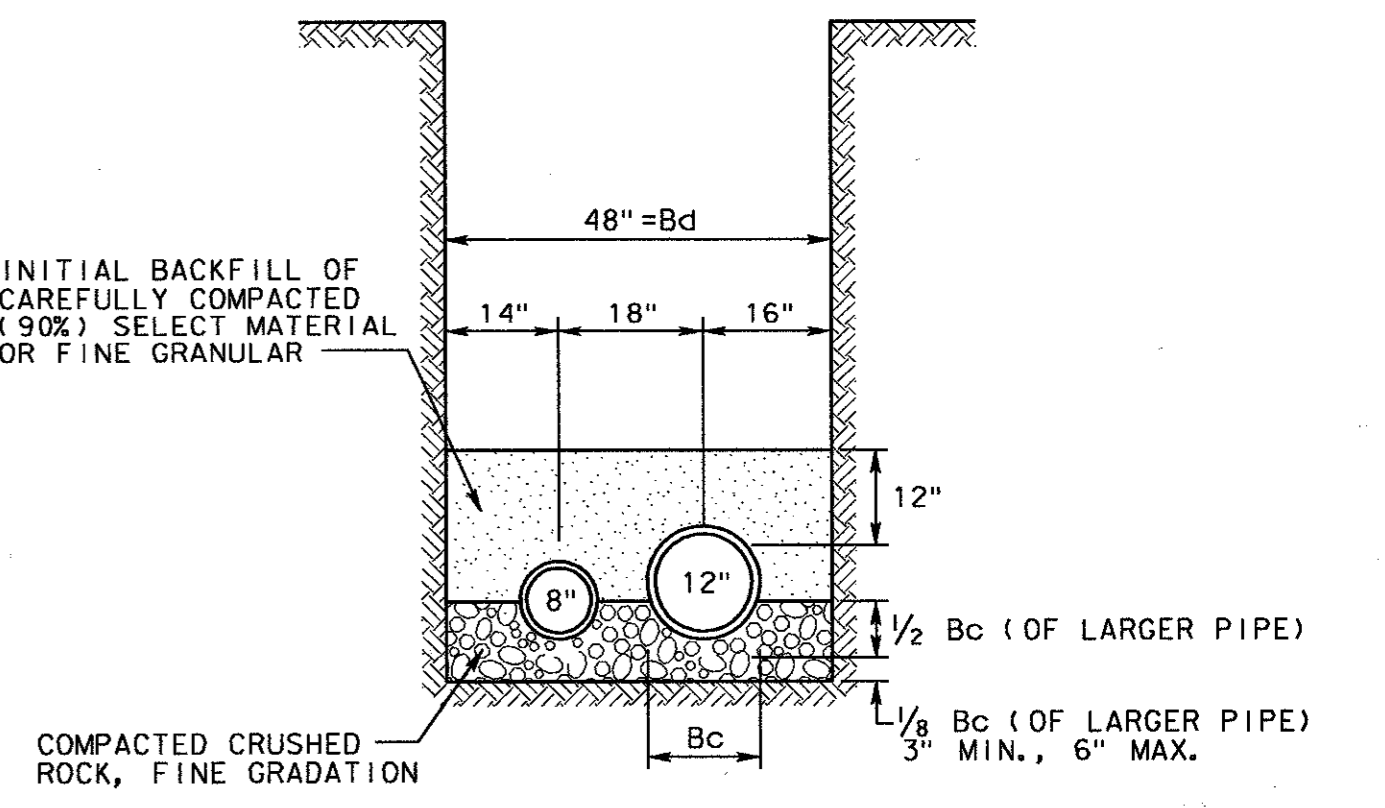
**6' DIA. DROP MANHOLE CONNECTION**



**BEDDING DETAIL CLASS "B"**

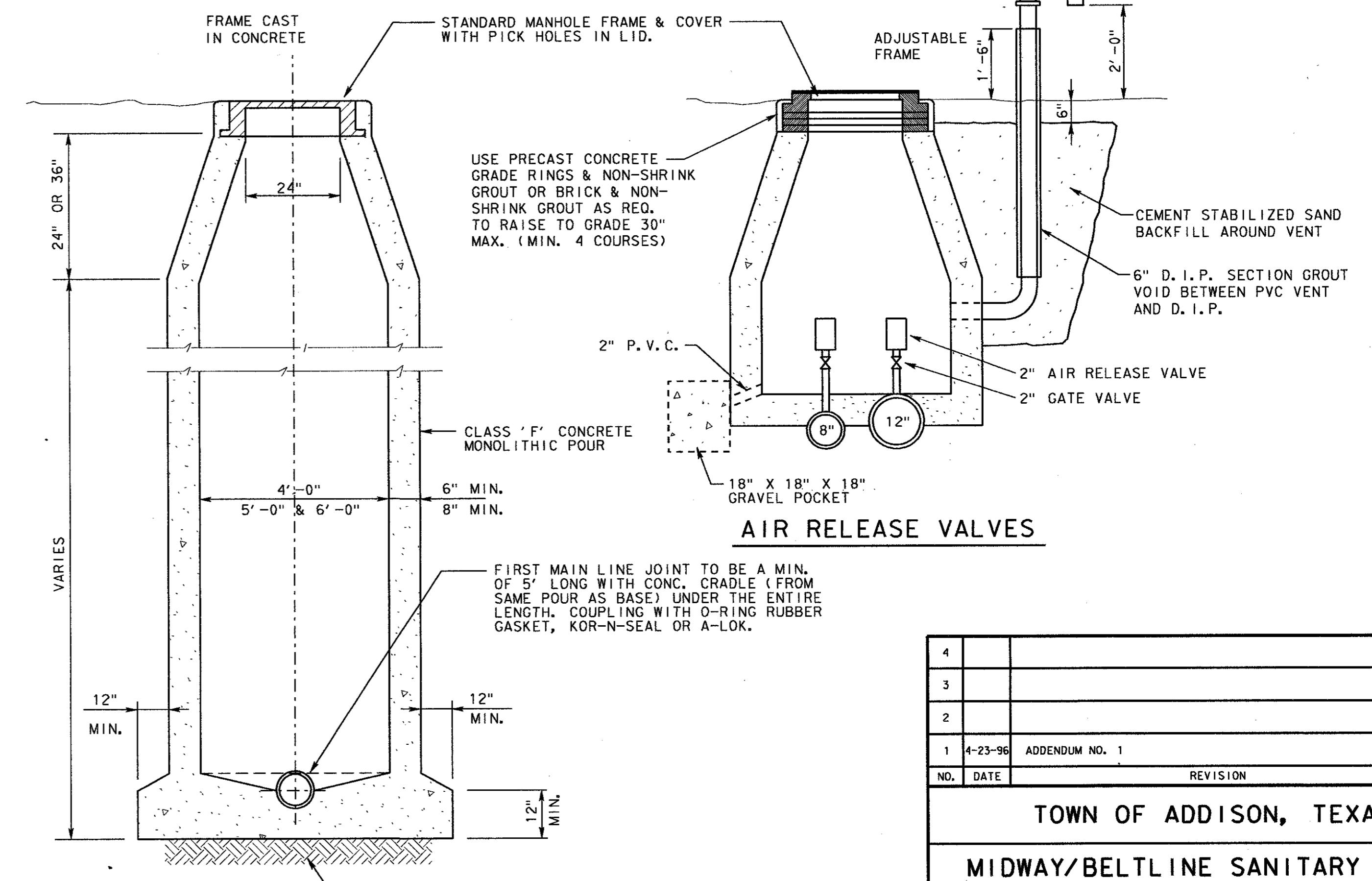


**BEDDING DETAIL CLASS "C"**



**PVC FORCEMAIN EMBEDMENT DETAIL**

\* ALL SANITARY SEWER EMBEDMENT SHALL BE CLASS "B" UNLESS OTHERWISE SHOWN ON PLANS.



**STANDARD CAST-IN-PLACE CONCRETE MANHOLE**

THE BOTTOMS OF ALL MANHOLES ARE TO BE CAST-IN-PLACE.

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1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.

**TOWN OF ADDISON, TEXAS**

**MIDWAY/BELTLINE SANITARY SEWER PHASE II**

**SANITARY SEWER DETAILS SHEET 1**

**Carter Burgess**

Consultants in Engineering, Architecture, Planning and the Environment

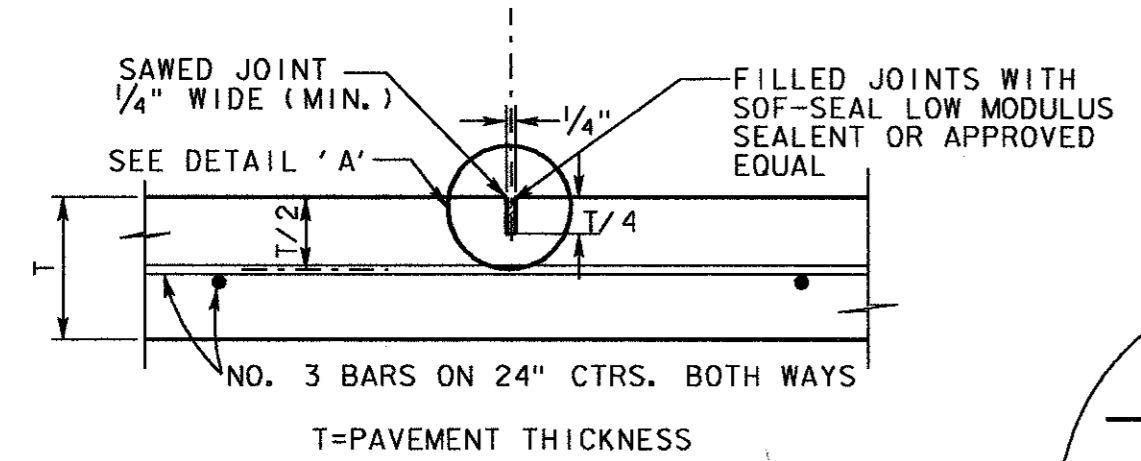
CARTER & BURGESS, INC.

7950 ELMBROOK DRIVE, SUITE 250

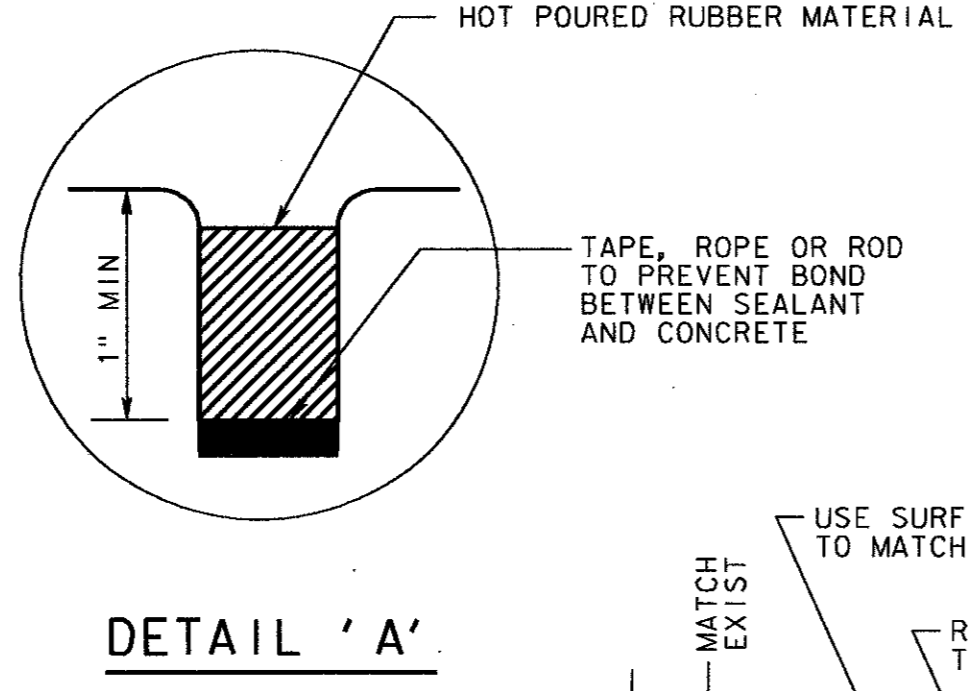
DALLAS, TX 75247-4961



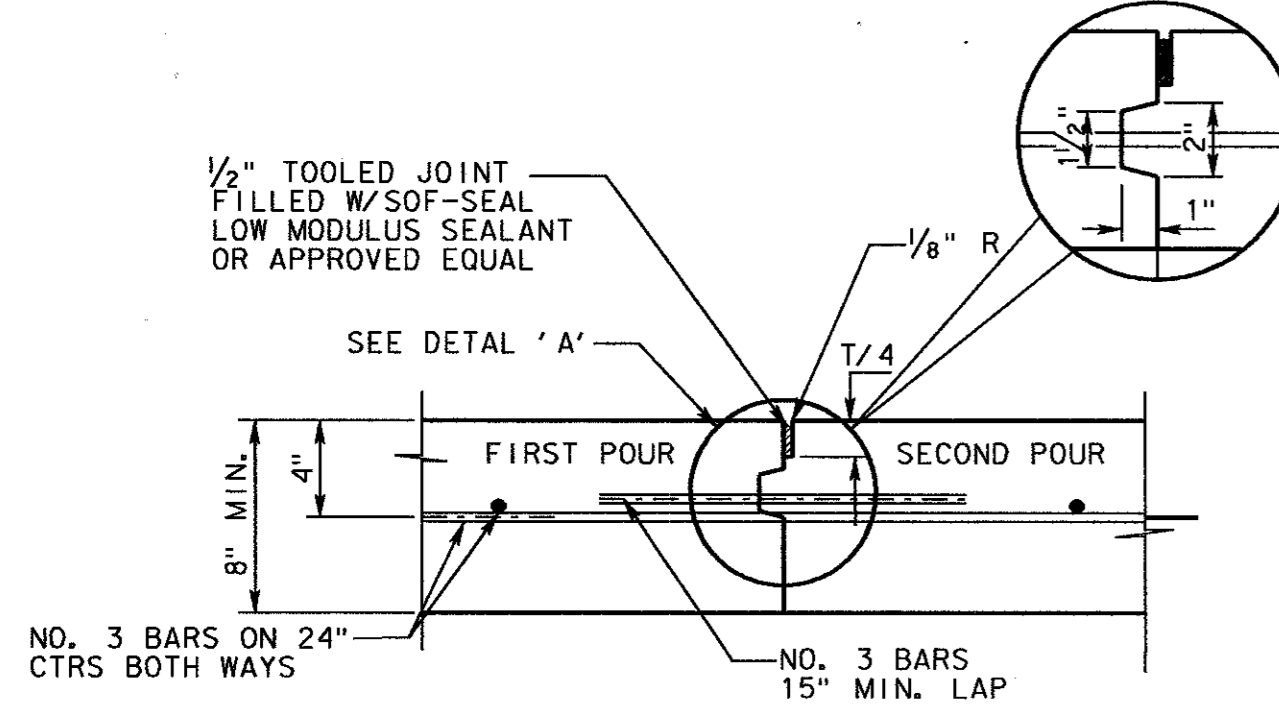
Unit	Scale	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
		Job No.	93327601D
		Sheet	36 of 63



**SAWED DUMMY JOINT**  
(TRANSVERSE DUMMY JOINT TO BE SPACED 16" MIN. & 22" MAX. TO MATCH EXISTING)

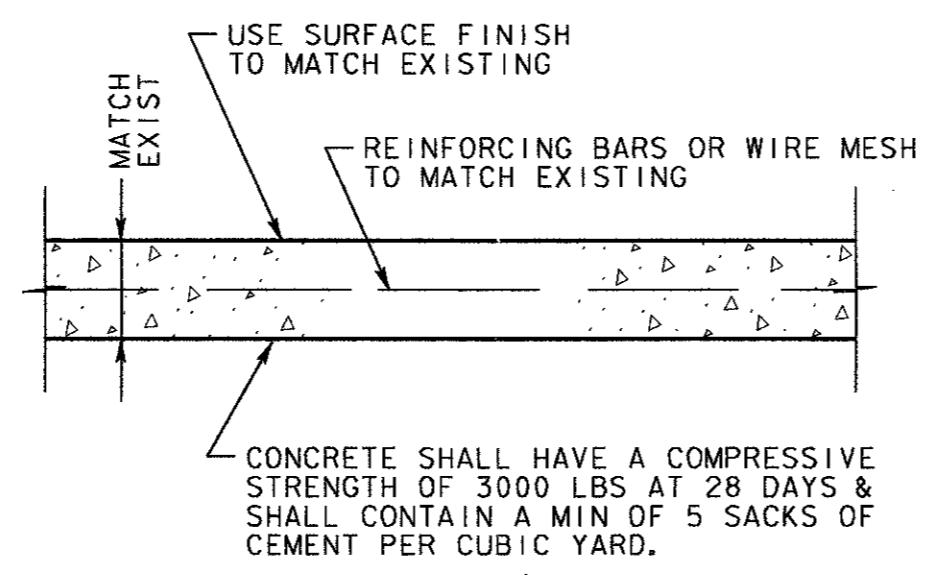


**DETAIL 'A'**

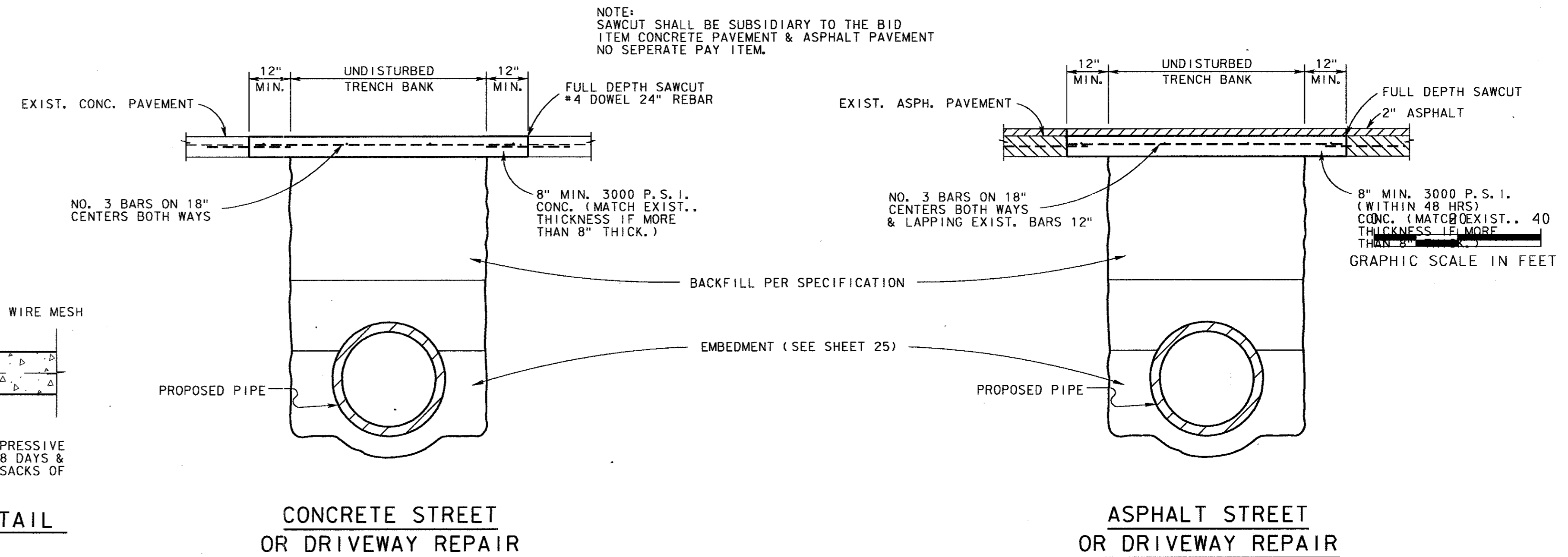


**CONSTRUCTION JOINT FOR PAVEMENTS**  
FOR 8" THICKNESS PAVEMENT AND LONGITUDINAL JOINTS

NOTE:  
CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT. DRILL DOWELS INTO FIRST POUR.  
T=PAVEMENT THICKNESS  
THICKENED EDGES ARE REQUIRED FOR FUTURE WIDENING ONLY.

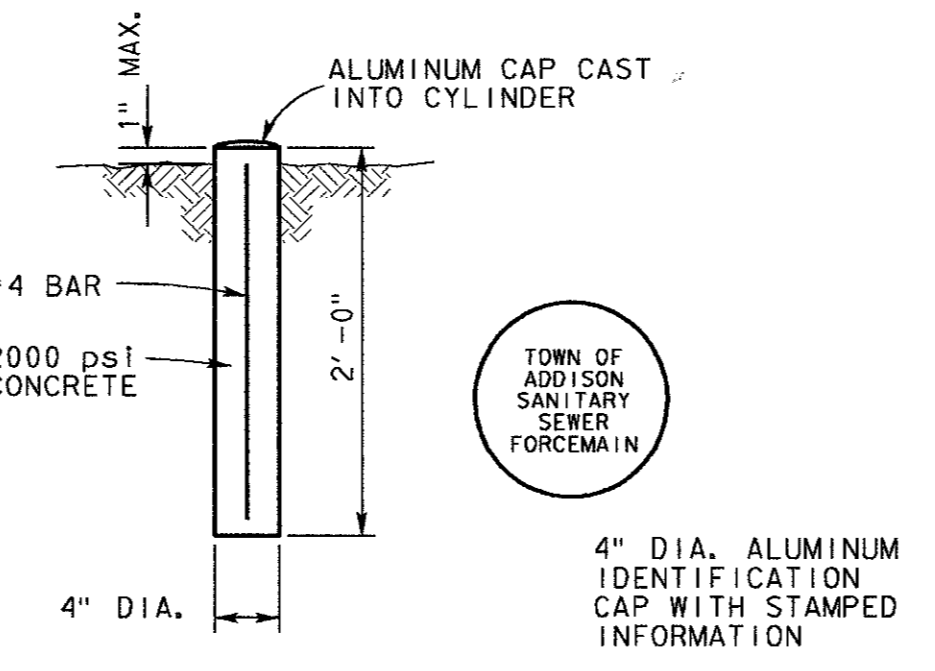


**CONCRETE RIPRAP DETAIL**

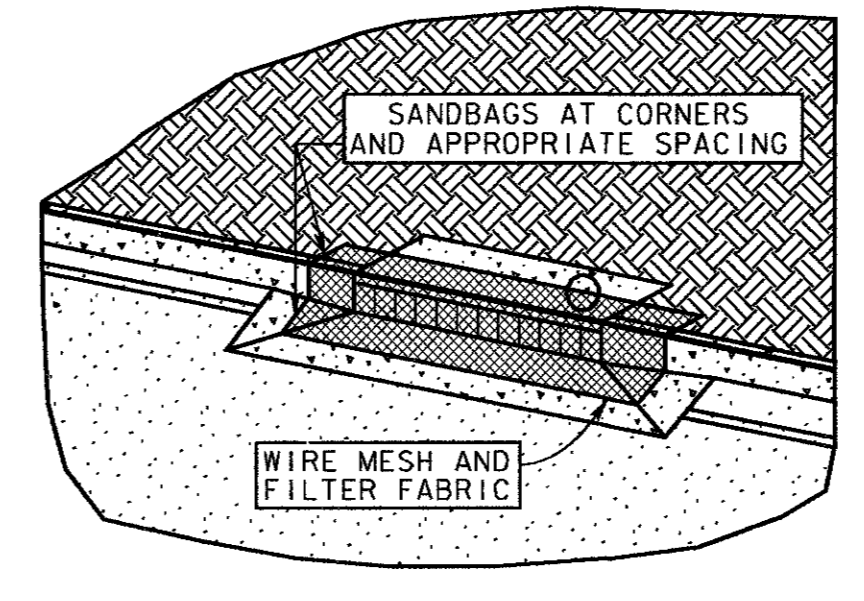


**CONCRETE STREET OR DRIVEWAY REPAIR**

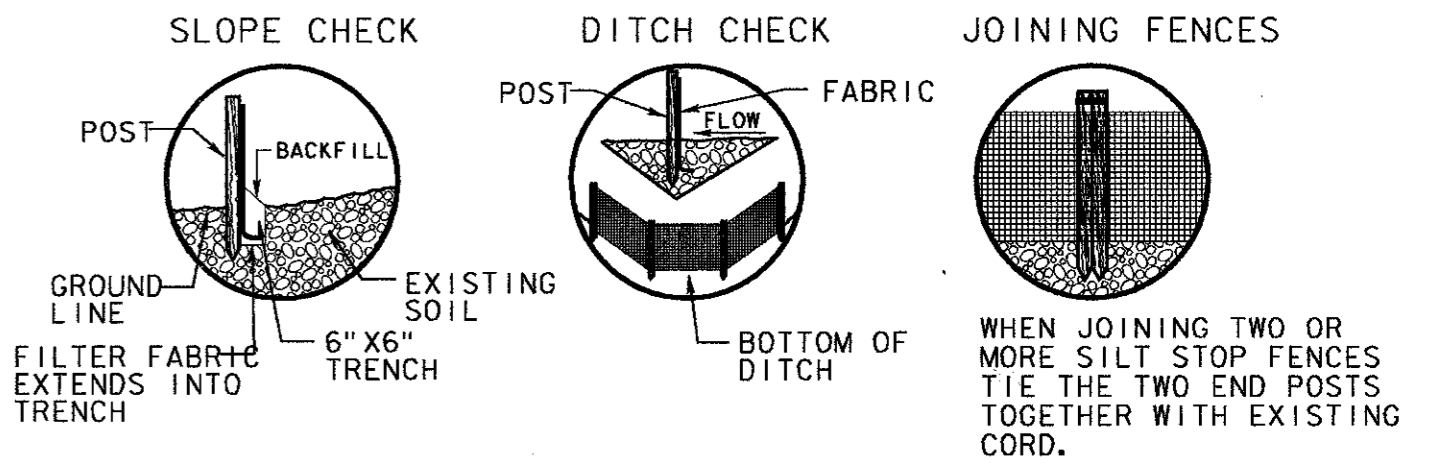
**ASPHALT STREET OR DRIVEWAY REPAIR**



**FORCE MAIN MARKER DETAIL**

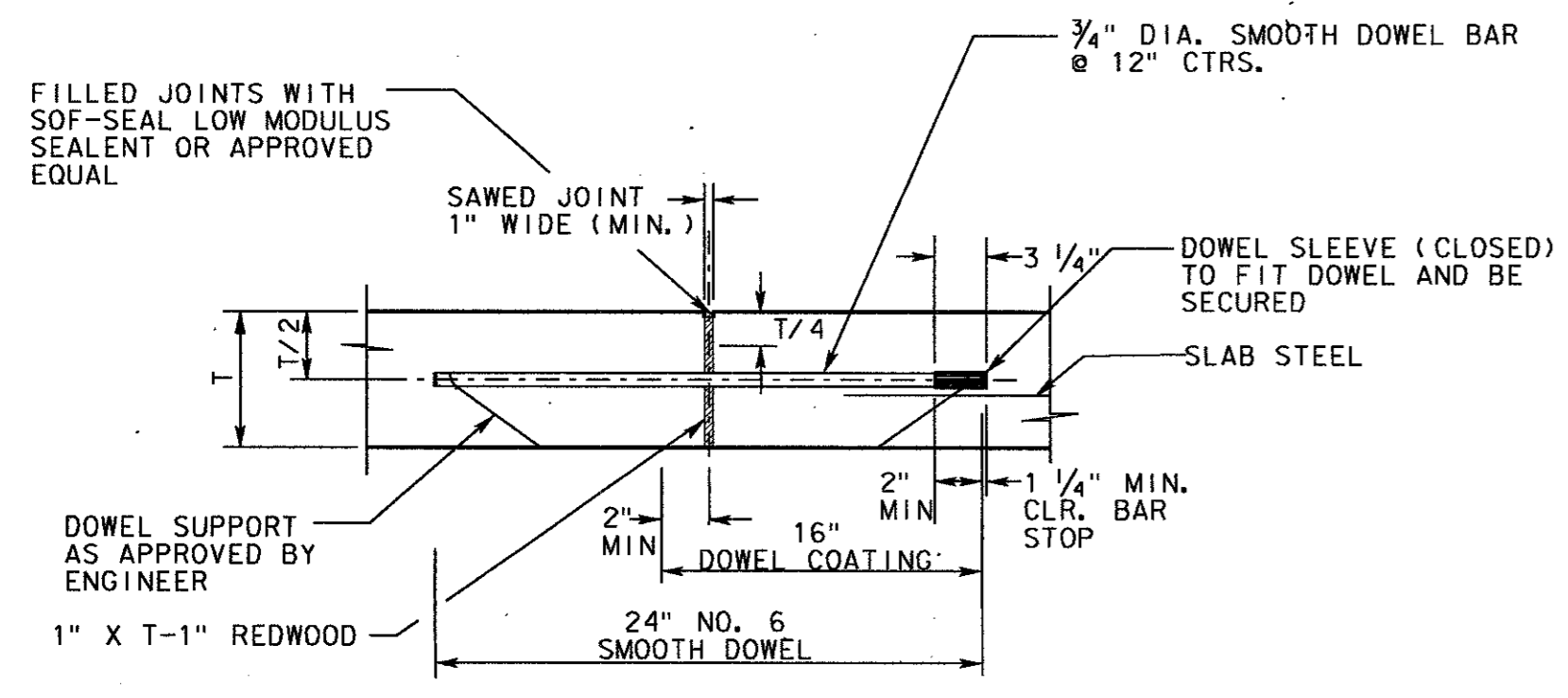


**SEDIMENT BARRIER AT INLET OR APPROVED EQUAL**



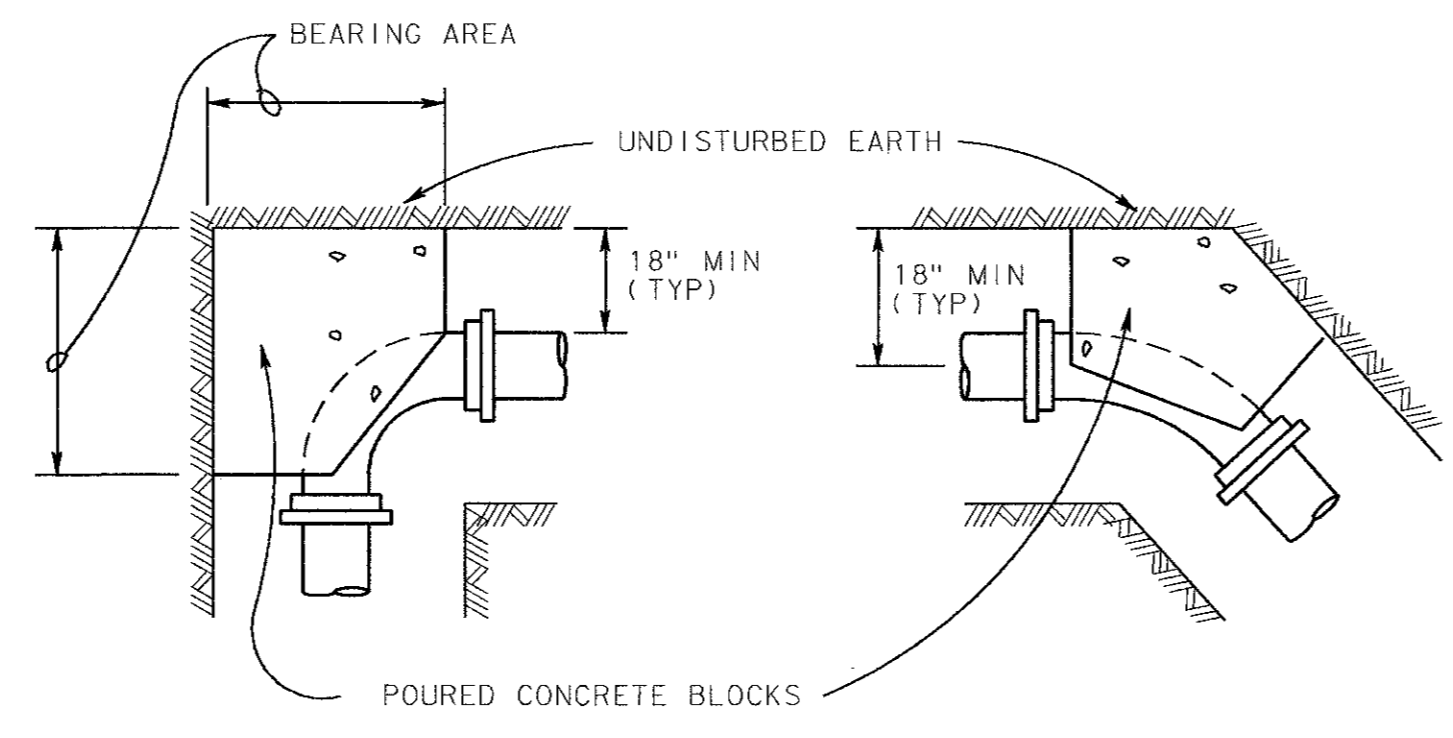
**SILT FENCE DETAIL**  
(NOT TO SCALE)

NOTE:  
1.) SILT FENCE FABRIC SHALL BE MIRAFI 100 X OR EQUAL.  
2.) INSTALL SILT FENCES AND HAY BALES AT LOCATIONS DIRECTED BY OWNER.  
3.) FENCE POSTS SHALL BE GALVANIZED STEEL AND MAY BE ROLLED, FORMED OR TUBULAR IN CROSS-SECTION. "T" POSTS MAY BE USED WHEN IN CONFORMANCE WITH SPECIFICATION.



**TRANSVERSE EXPANSION JOINT**

NOTES:  
1. DOWEL SPACER TO BE PLACED ON FIRST POURED SIDE OF DOWELS.  
2. SPACER SHALL BE ALIGNED SUCH THAT DOWELS ARE PARALLEL TO EACH OTHER, AND PERPENDICULAR TO REDWOOD.

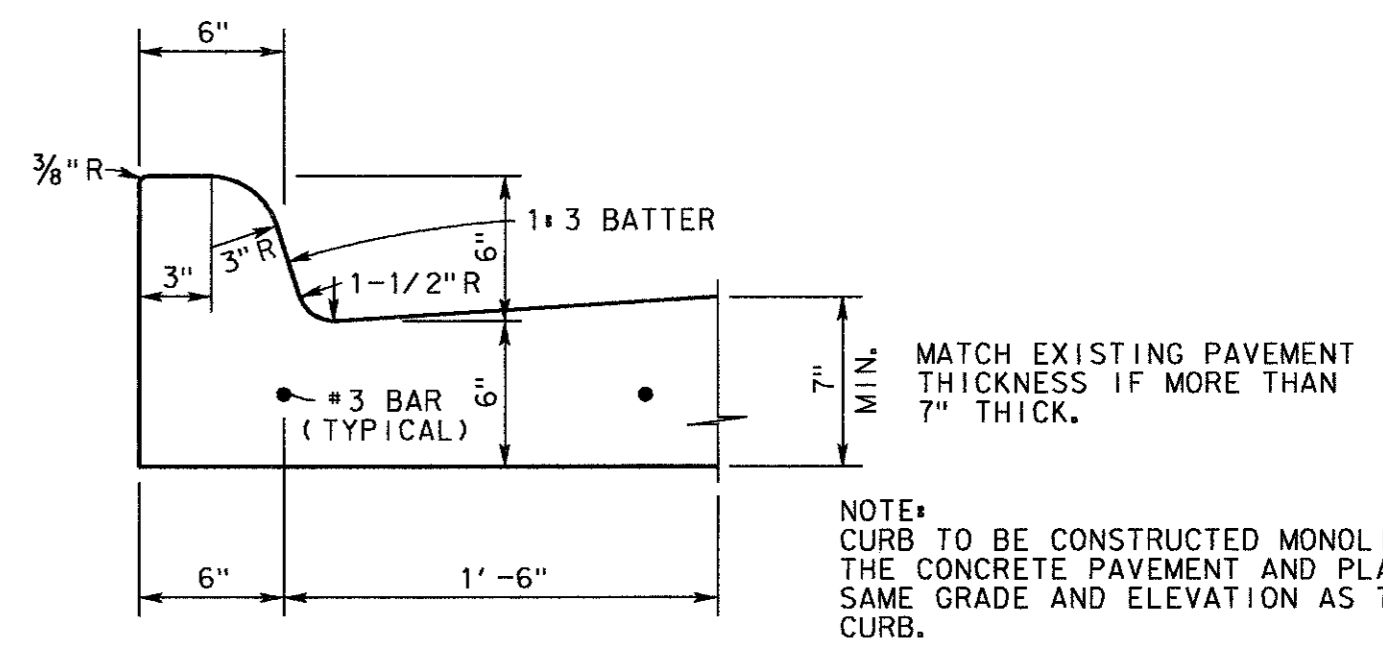
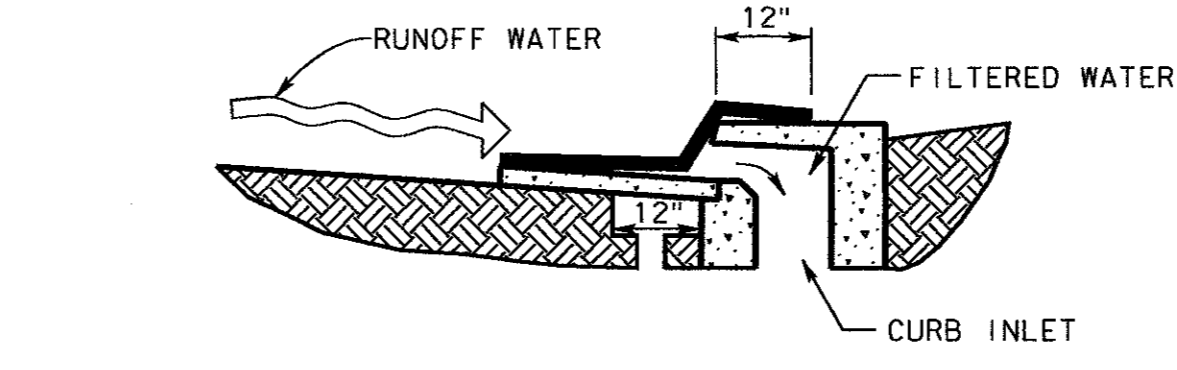


FITTING SIZES	BEARING AREA OF BLOCK IN SQ. FT.				
	TEE & END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	3.6	5.4	2.5	1.5	0.8
8"	6.3	8.9	4.8	2.5	1.3
10"	9.9	13.9	7.6	3.9	2.0
12"	14.2	20.0	10.9	5.6	2.8

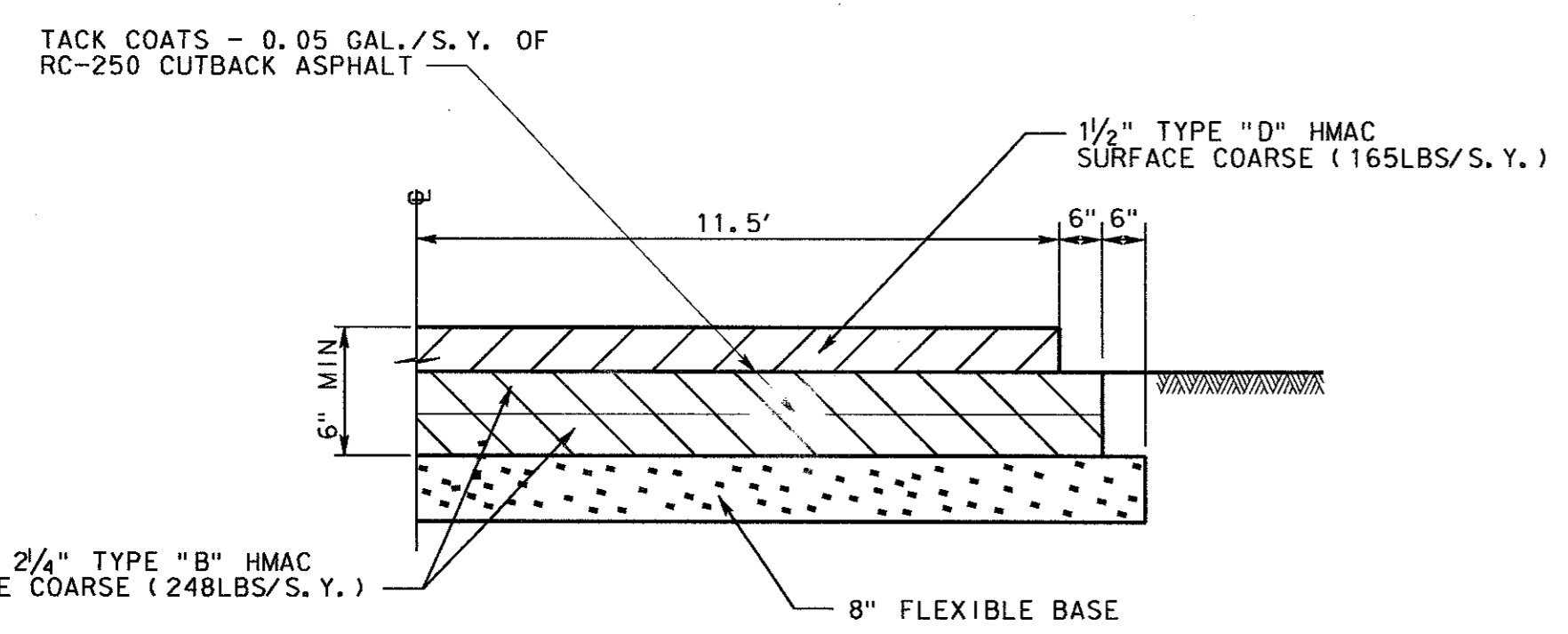
NOTE:  
AREAS BASED ON PIPE BURST PRESSURE OF 250 PSI.  
SOIL BEARING PRESSURE MULTIPLIER

1000	2.0
1500	1.33
2000	1.0
3000	0.67

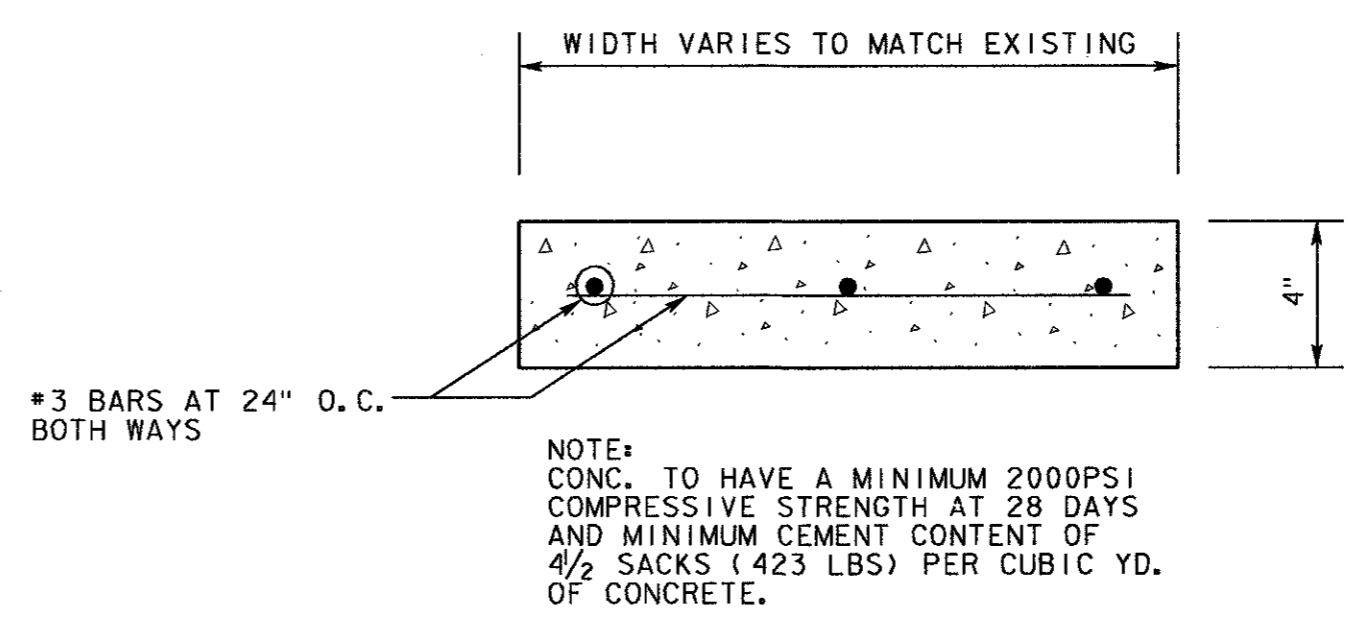
**THRUST BLOCK DETAILS**  
NOT TO SCALE



**6" CONCRETE CURB**



**6 INCH ASPHALT PAVEMENT DETAIL**

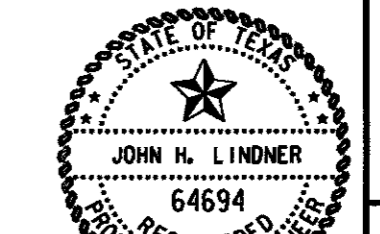


**SIDEWALK REPLACEMENT DETAIL**

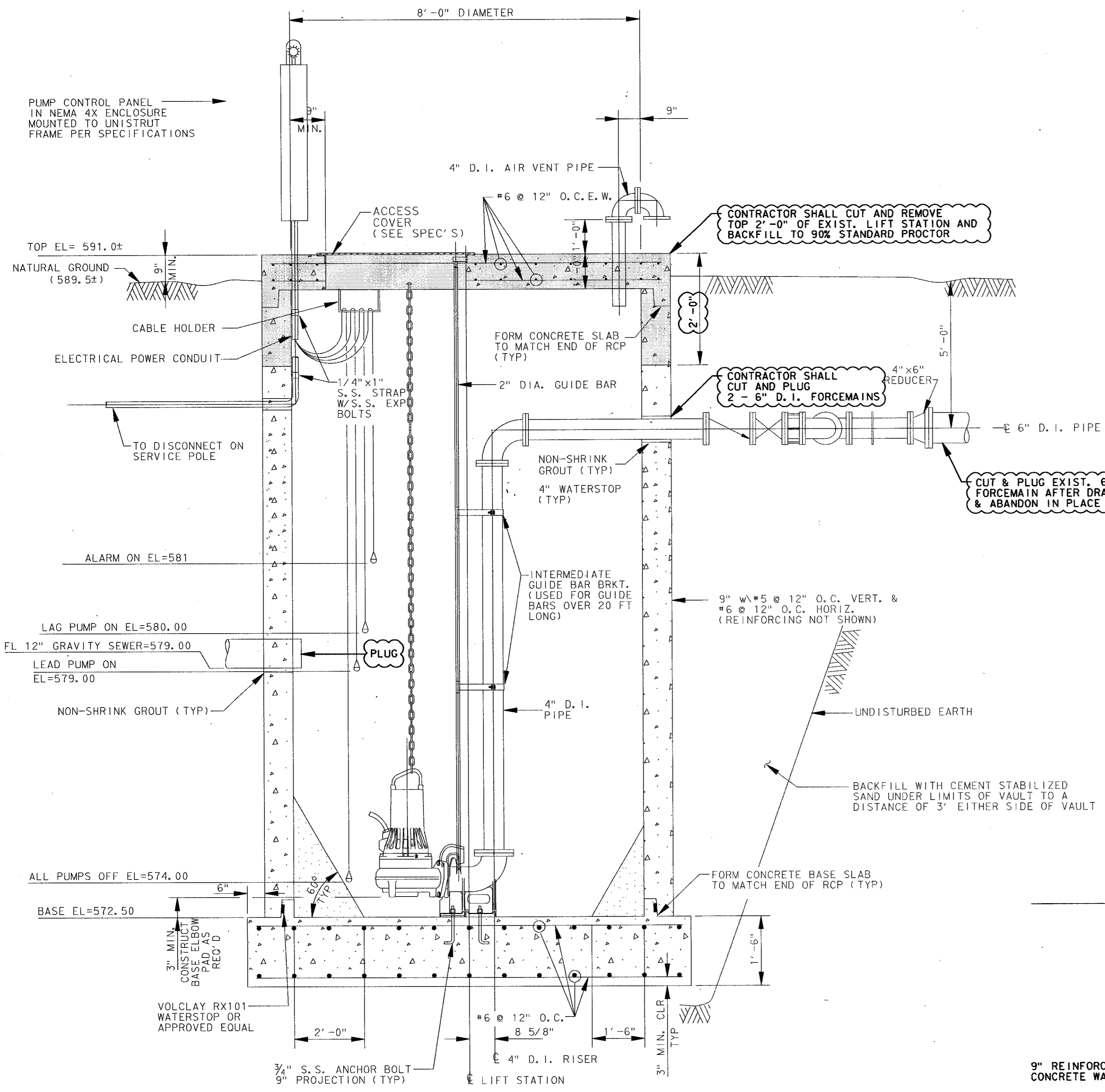
NO.	DATE	REVISION	APPROV.
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**TOWN OF ADDISON, TEXAS**  
**MIDWAY/BELTLINE SANITARY SEWER**  
**PHASE II**  
**SANITARY SEWER DETAILS**  
**SHEET 2**

**Carter & Burgess**  
Consultants in Engineering, Architecture,  
Planning and the Environment.  
**CARTER & BURGESS, INC.**  
7550 EMBROOK DRIVE, SUITE 250  
DALLAS, TX 75247-4963

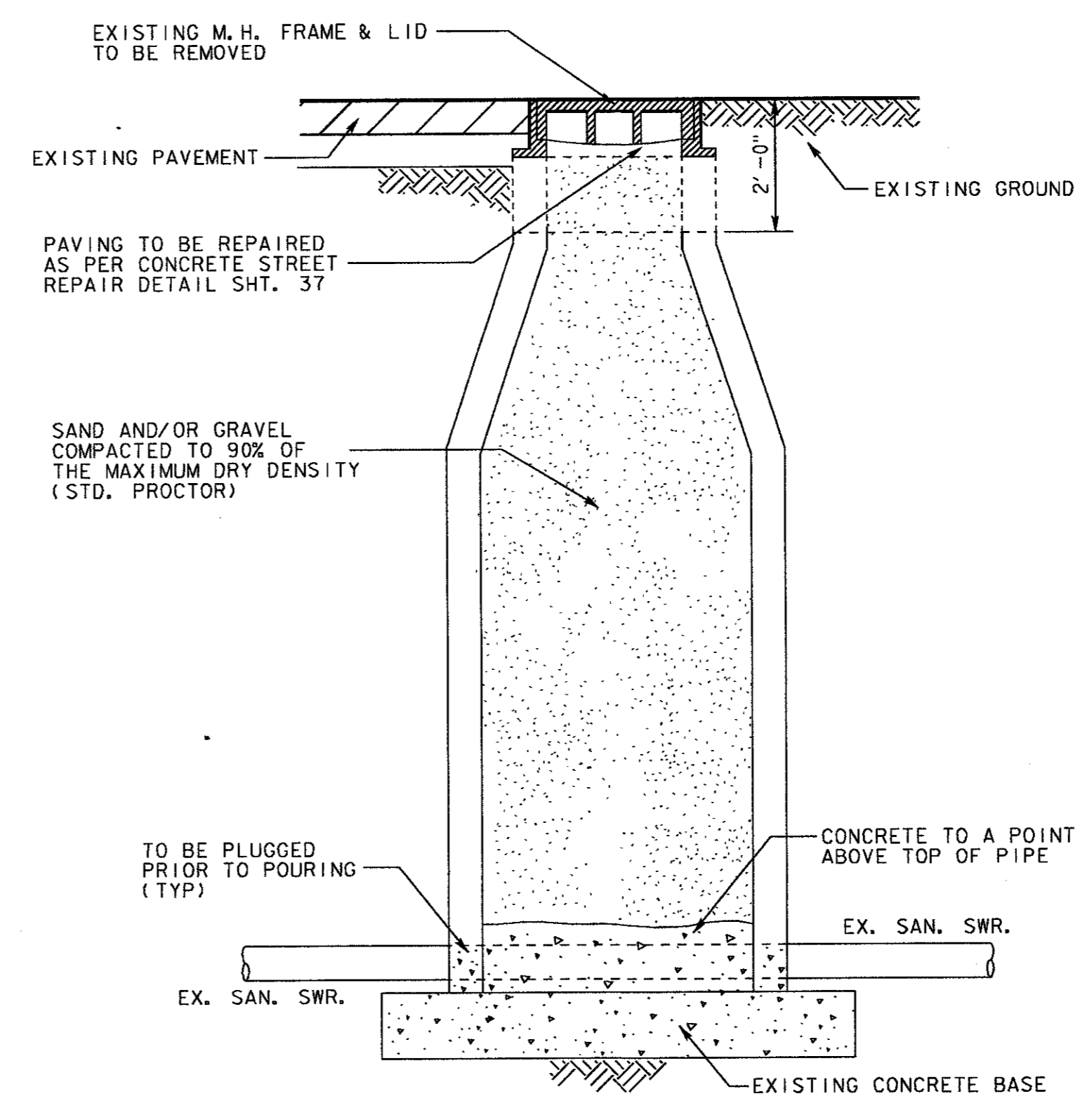


Unit	Scale	1" = 2'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No. 933276010
Drawn	R. Howman	Approved	J. Lindner	Sheet 37 of 63



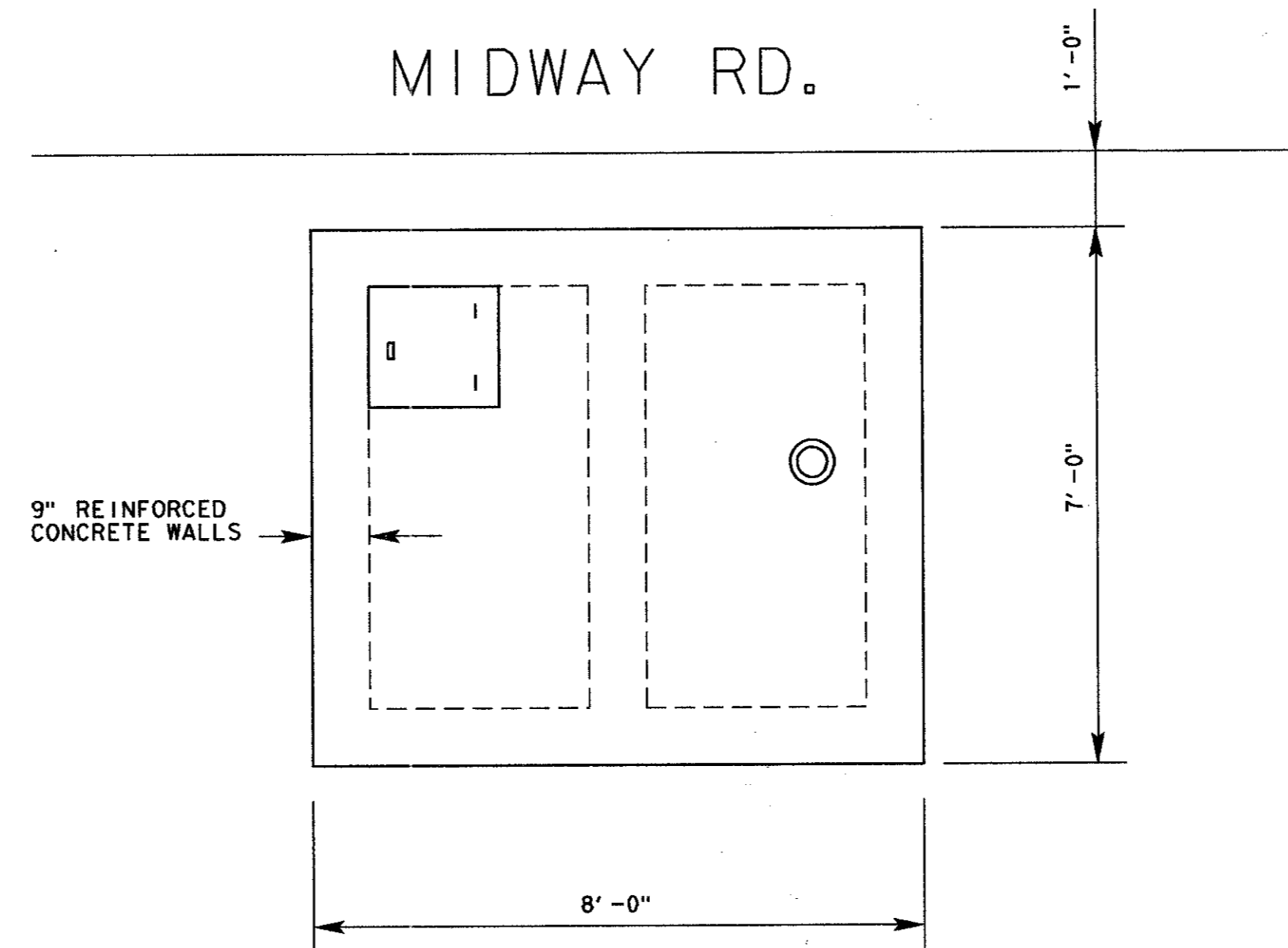
**RAWHIDE CREEK LIFT STATION  
ABANDONMENT DETAIL**

☁ - INDICATES WORK TO BE DONE AS PART OF THIS CONTRACT.



**ABANDONMENT OF  
EXISTING MANHOLE**

NOTE: ABANDONMENT OF MANHOLE UNIT PRICE SHALL INCLUDE PAVEMENT, SOD AND LANDSCAPE REMOVAL AND REPLACEMENT.



**MIDWAY METER STATION  
ABANDONMENT DETAIL**

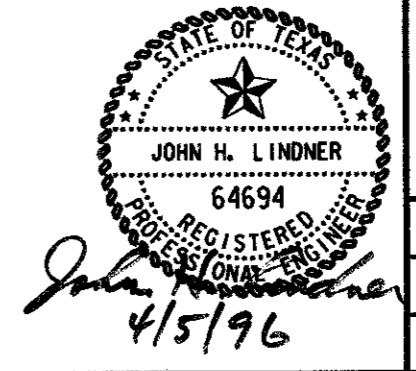
- NOTES:
1. REMOVE TOP AND WALLS OF METER STATION TO 2'-0" FT BELOW EXISTING GRADE AND DISPOSE.
  2. CUT AND PLUG EXISTING S.S. LINES.
  3. FILL LIFT STATION WITH BACKFILL MATERIAL AND COMPACT TO 90% STANDARD PROCTOR. USE TOPSOIL FOR TOP 1'-0" AND SOD.

- NOTES:
1. REMOVE AND DELIVER TO THE TOWN OF ADDISON 2 PUMPS, ELECTRICAL CONTROLS, CONTROL PANELS AND FLOATS.
  2. REMOVE TOP 2'-0" OF LIFT STATION INCLUDING HATCH, VENT AND DISPOSE.
  3. REMOVE AND DISPOSE OF ALL PIPING.
  4. FILL LIFT STATION WITH BACKFILL MATERIAL AND COMPACT TO 90% STANDARD PROCTOR. USE TOPSOIL FOR TOP 1'-0" AND SOD.
  5. PUMP OUT EXISTING LIFT STATION & EMPTY 8" FORCEMAIN PRIOR TO ABANDONMENT OF LIFT STATION.

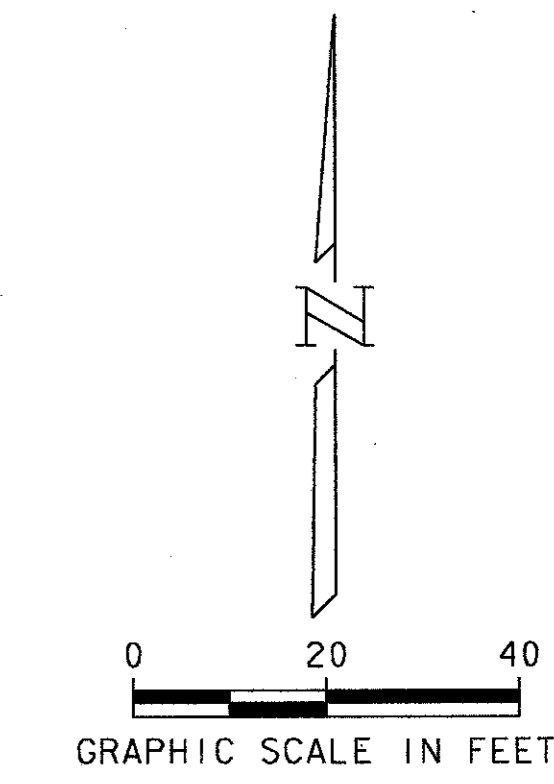
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NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
MIDWAY/BELTLINE SANITARY SEWER  
PHASE II  
ABANDONMENT DETAIL SHEET

**Carter-Burgess**  
Consultants in Engineering, Architecture,  
Planning and the Environment  
CARTER & BURGESS, INC.  
7950 EMBROOK DRIVE, SUITE 250  
DALLAS, TX 75247-4960



Unit	Scale	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93321601D	Sheet	38 of 63



COORDINATE CONTROL POINTS TABLE			
NO.	N	E	DESCRIPTION
1	2202172.75	475582.91	MATCH EX \ P. C.
2	2202177.02	475592.55	P. T.
3	2202176.92	475735.06	P. C.
4	2202224.89	475783.06	P. T.
5	2202275.77	475783.06	P. C.
6	2202300.77	475808.06	P. T.
7	2202280.77	475808.06	PAVEMENT CORNER
8	2202280.77	475838.06	PAVEMENT CORNER
9	2202300.77	475838.06	PAVEMENT CORNER
10	2202300.77	475842.65	PAVEMENT AT BUILDING
11	2202318.77	475842.65	PAVEMENT AT BUILDING
12	2202318.77	475838.06	PAVEMENT CORNER
13	2202333.77	475838.06	PAVEMENT CORNER
14	2202333.77	475808.06	PAVEMENT CORNER
15	2202323.77	475808.06	P. C.
16	2202275.77	475760.06	P. T.
17	2202224.89	475760.06	P. C.
18	2202199.88	475735.07	P. T.
19	2202199.98	475594.37	P. C.
20	2202187.91	475562.12	P. R. C.
21	2202186.45	475543.51	MATCH EX \ P. T.
22	2202299.61	475842.65	BUILDING CORNER
23	2202299.61	475878.65	BUILDING CORNER
24	2202323.61	475878.65	BUILDING CORNER
25	2202323.61	475842.65	BUILDING CORNER
26	2202176.85	475838.00	PAVEMENT CORNER
27	2202199.81	475838.00	PAVEMENT CORNER
28	2202199.83	475808.04	PAVEMENT CORNER

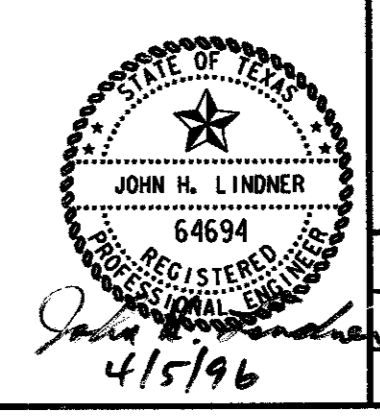


**LEGEND**

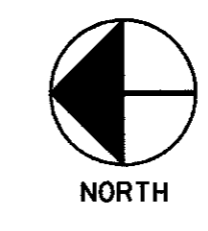
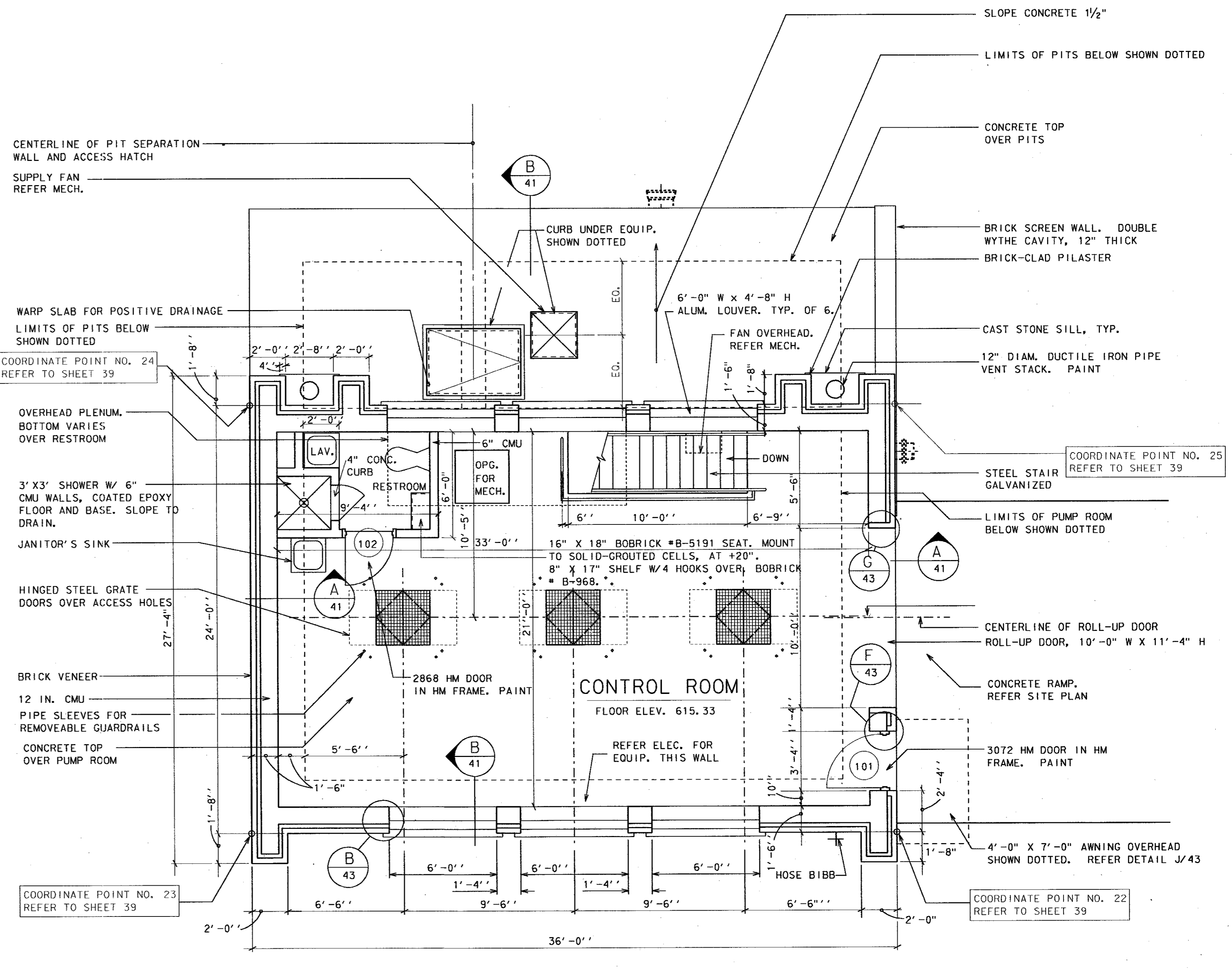
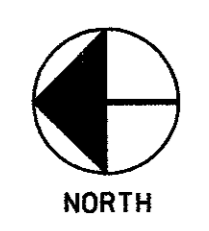
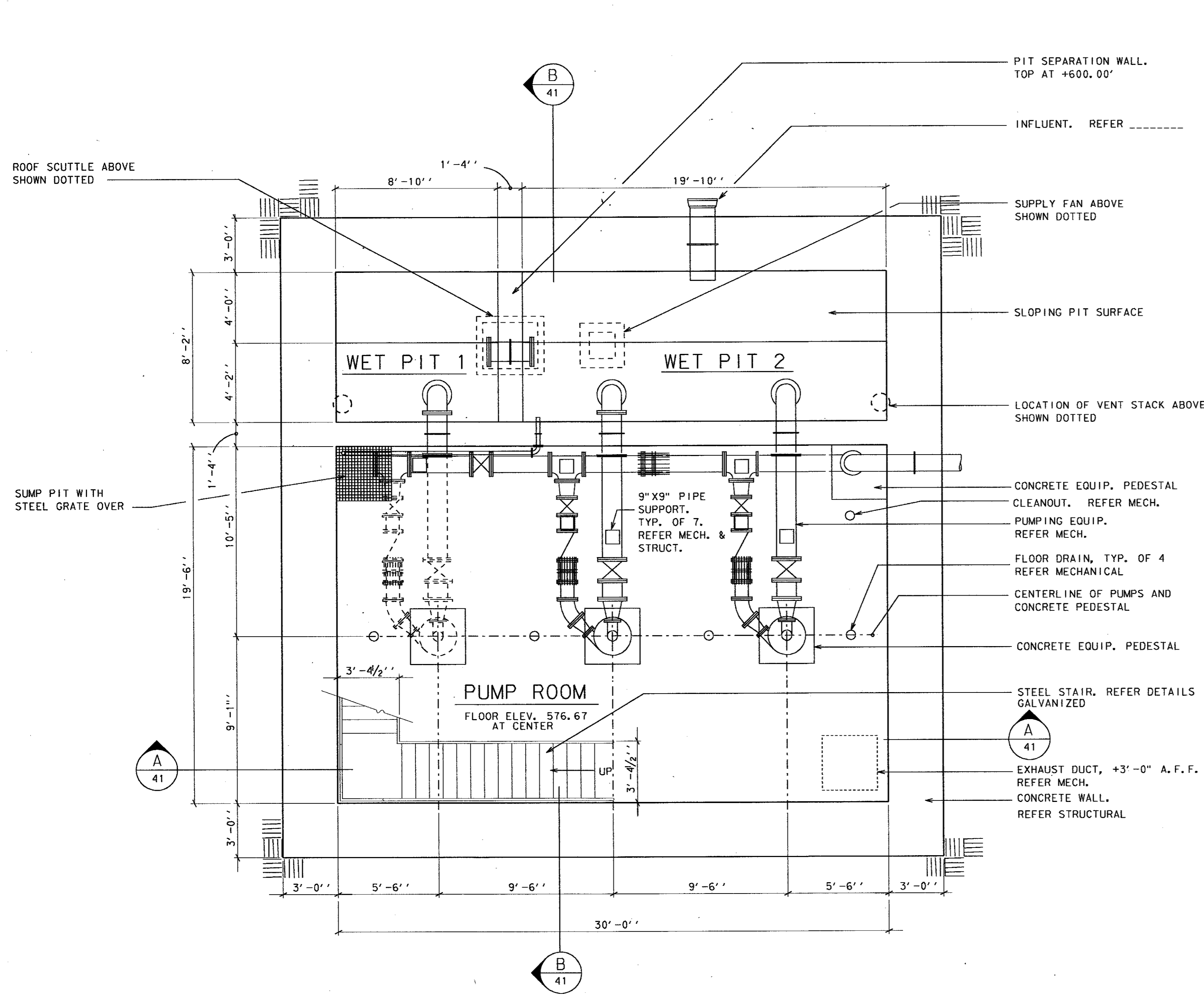
- 6 COORDINATE POINT NUMBER
- 614.08 EXISTING ELEVATION
- 614.27 PROPOSED ELEVATION
- PROPOSED CONTOUR
- EXISTING CONTOUR

**PRELIMINARY - FOR REVIEW ONLY**  
 These documents are for Design Review and not intended for Construction, Bidding, or Permit Purposes. They were prepared by, or under the supervision of:  
**JOHN LINDNER** 64694 01-02-96  
 Type or Print Name PE Date

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NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>LIFT STATION SITE &amp; GRADING PLAN</b>			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 EMBROOK DRIVE, SUITE 290 DALLAS, TX 75247-4961</small>			
Unit	Scale: 1"=20'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner Sheet 39 of 63







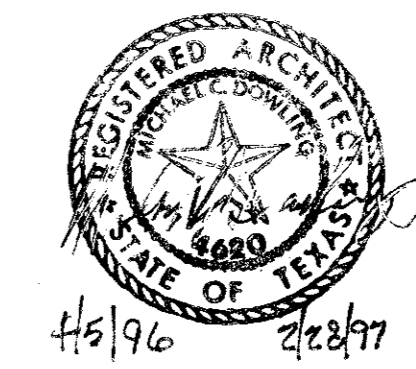
- GENERAL NOTES:**
- REFER TO SPECIFICATION SECTIONS 09700 - SPECIAL FLOOR COATINGS AND 09800 - SPECIAL COATINGS FOR FINISHES.
  - SHOWER DOOR: HEAVY DUTY, 2'-0" x 6'-0", 1/4" WIDE STAINLESS STEEL FRAME HARDWARE AND ACCESSORIES. 1/2" TEMPERED PRIVACY GLASS. PROVIDE ALL STRIKES, BLOCKS, ATTACHMENTS AND OTHER COMPONENTS FOR COMPLETE SYSTEM.

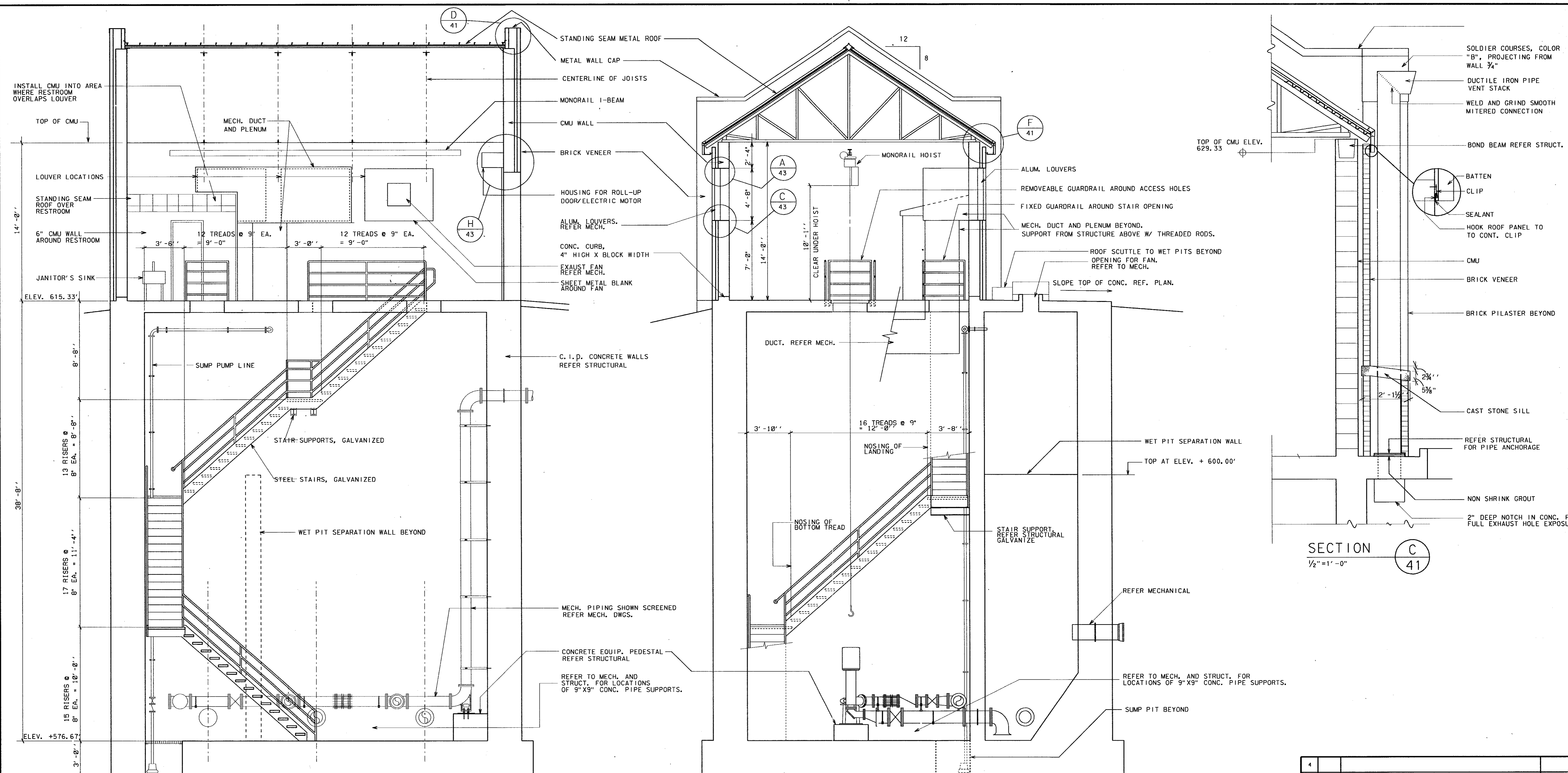
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NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LIFT STATION -  
 ARCHITECTURE FLOOR PLAN



Unit	Scale	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
		Job No.	93327601D
		Sheet	40 of 63





REVISIONS  
 NO. DATE DESCRIPTION  
 1 05/08/96  
 2 06/01/96  
 3 06/01/96  
 4 06/01/96  
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SECTION A  
1/4" = 1'-0"

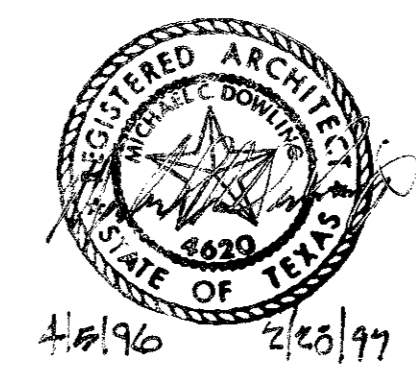
SECTION B  
1/4" = 1'-0"

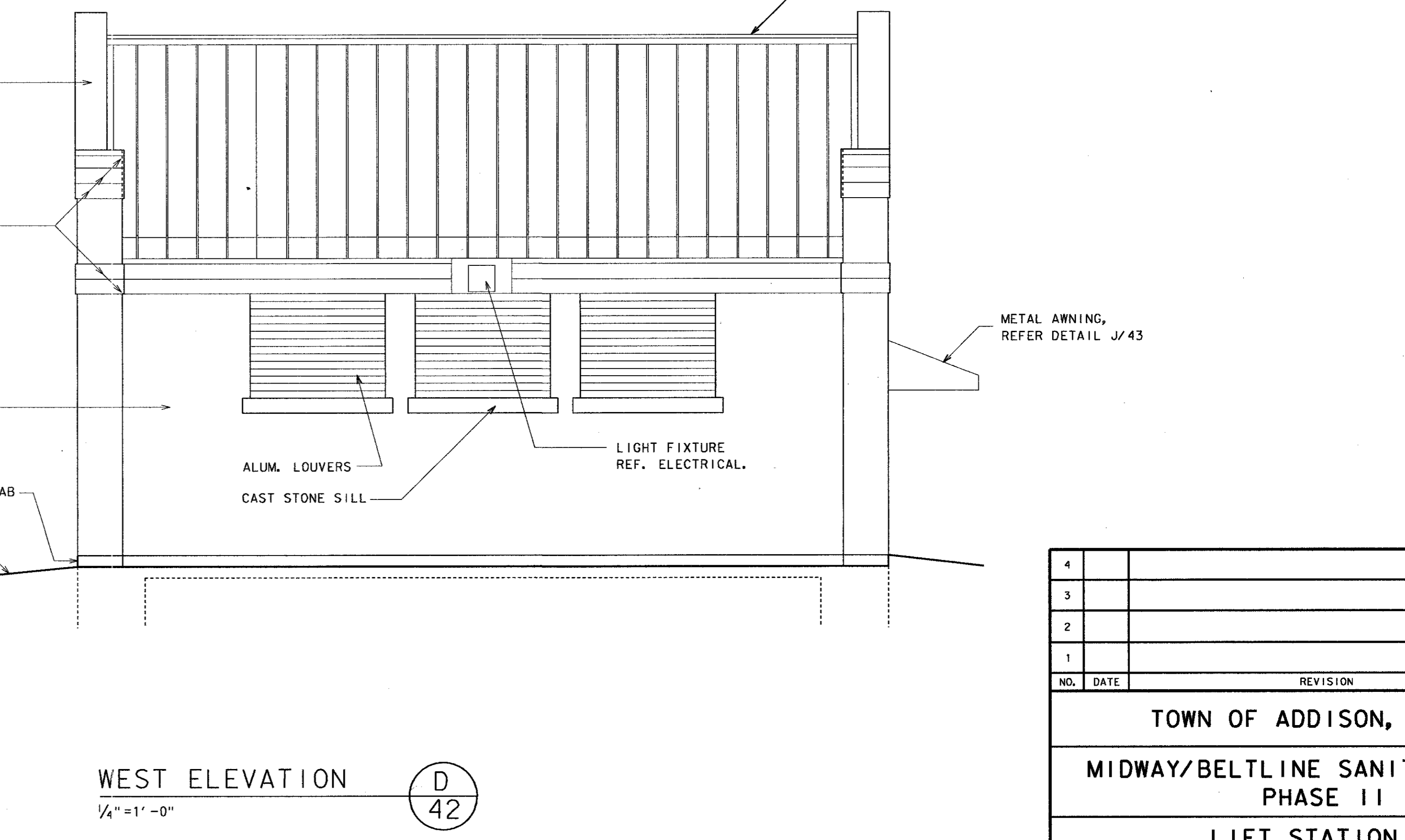
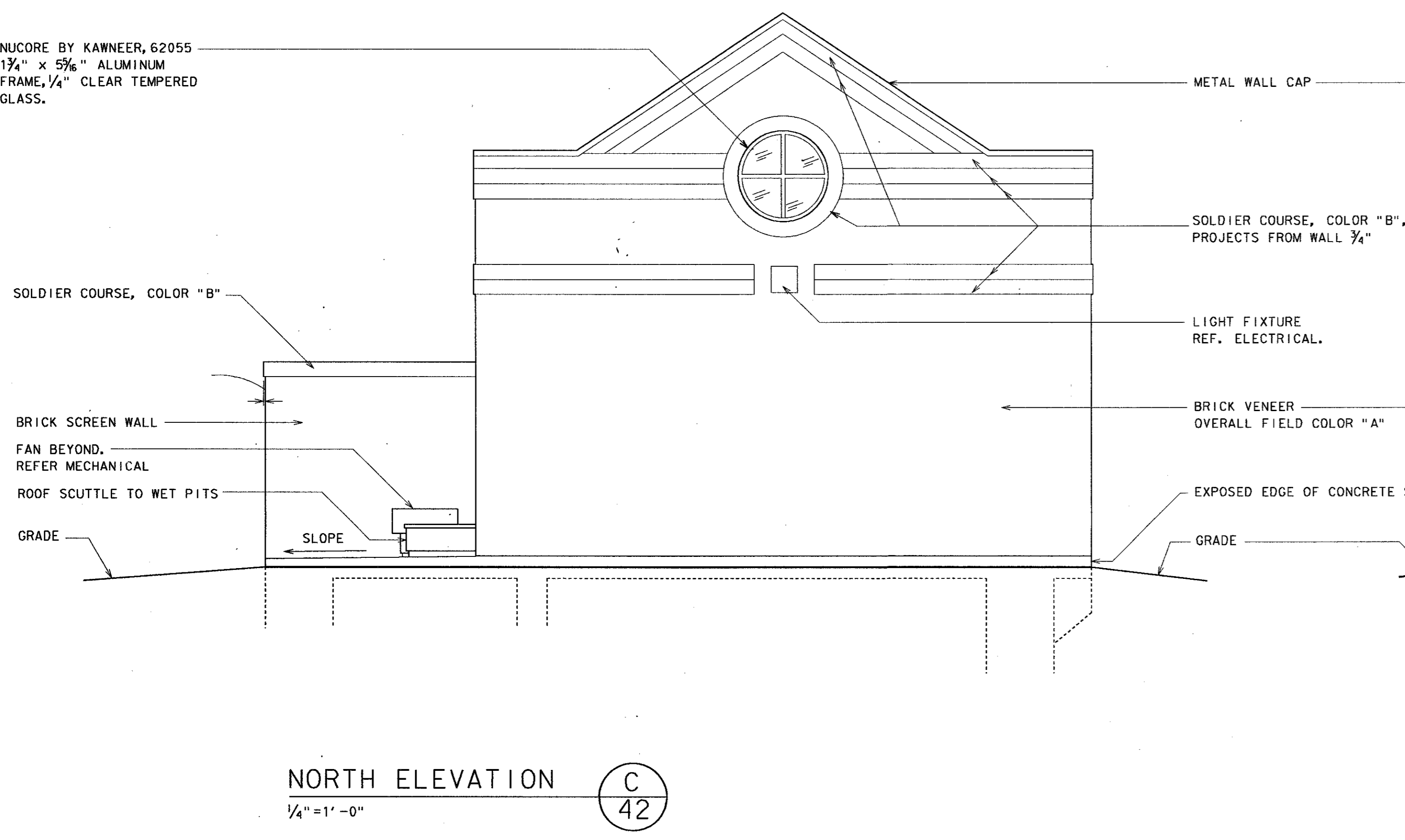
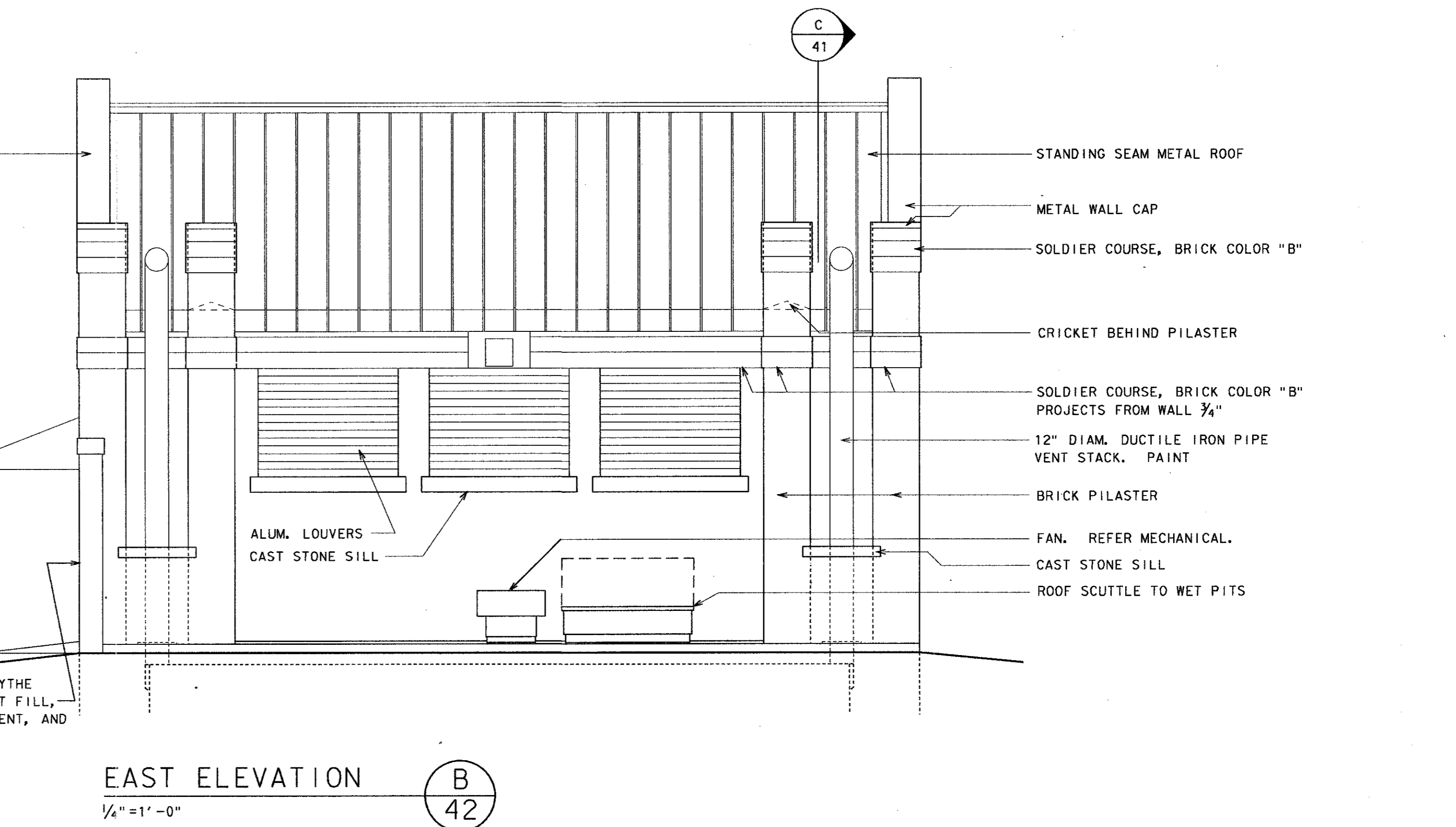
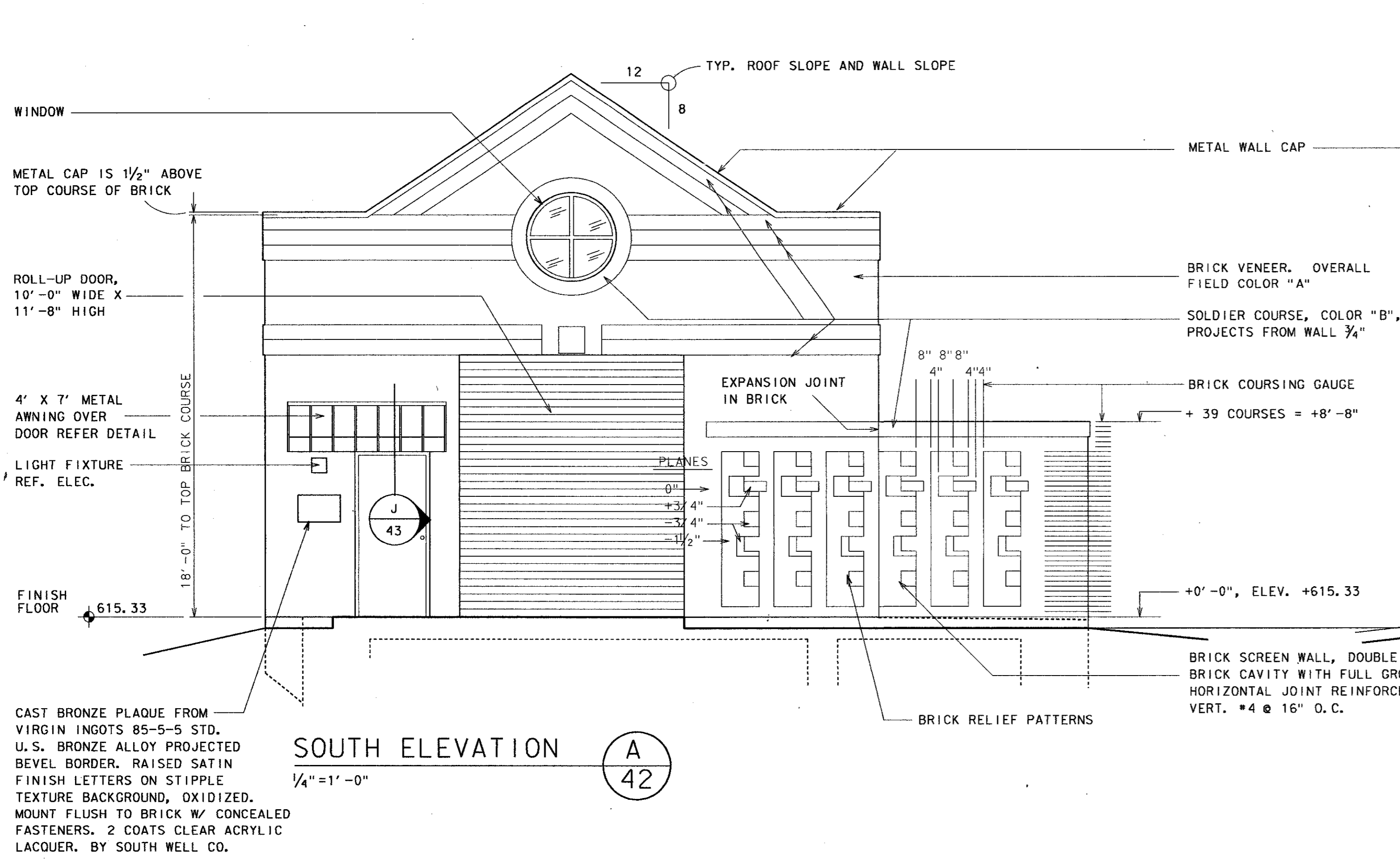
SECTION C  
1/2" = 1'-0"

SECTION F  
1/2" = 1'-0"

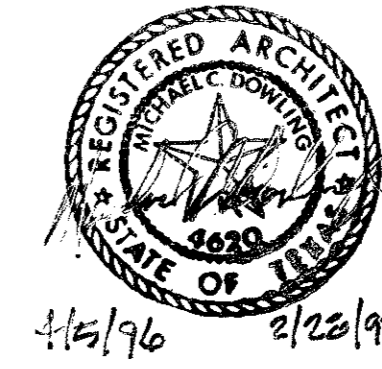
SECTION D  
1/2" = 1'-0"

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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION - ARCHITECTURAL BUILDING SECTIONS			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment CARTER &amp; BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	AS SHOWN	Date 04-05-96
Designed	R. WRIGHT	Checked R. WRIGHT	Job No. 93327601D
Drawn	R. WRIGHT	Approved J. Lindner	Sheet 41 of 63

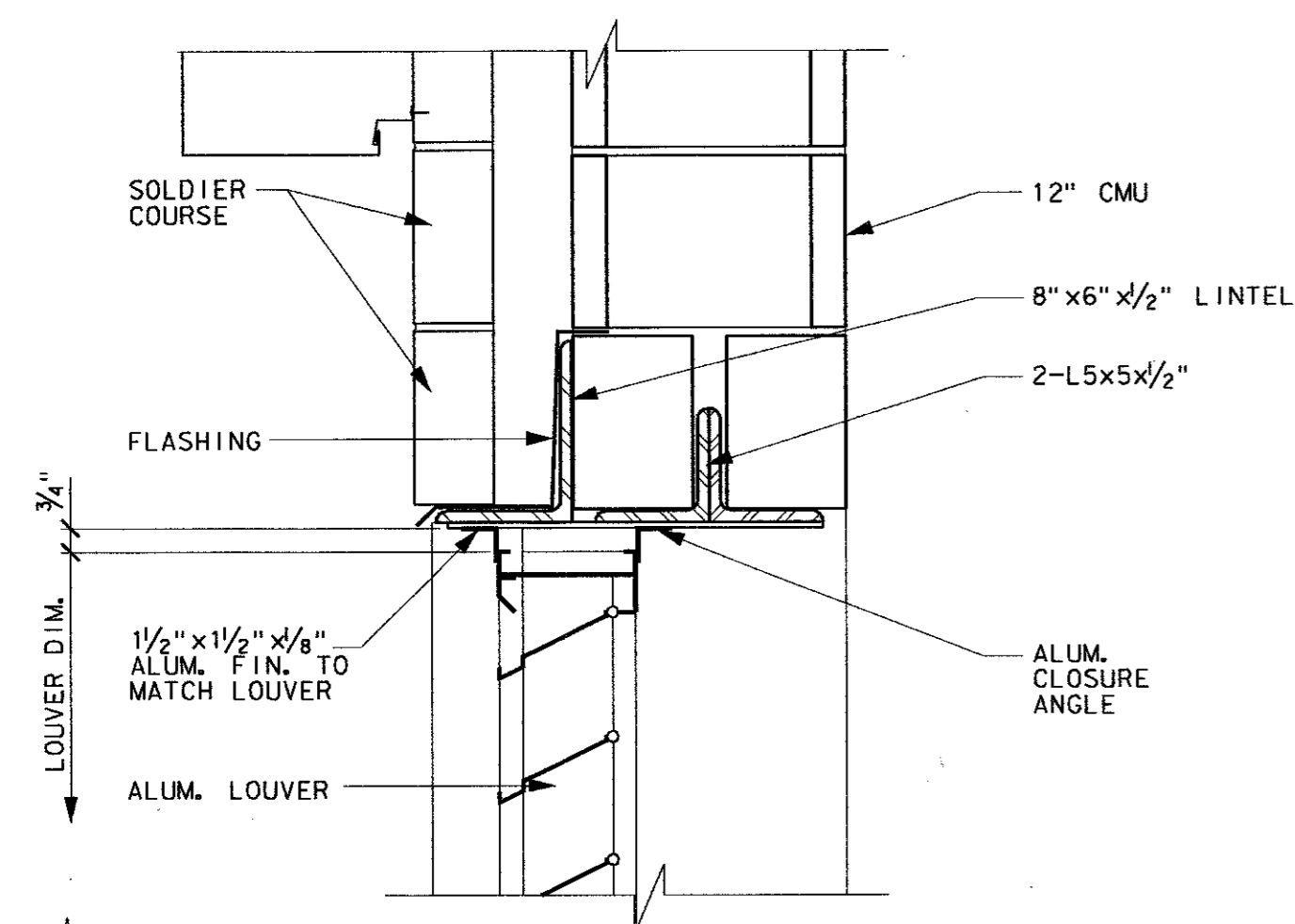




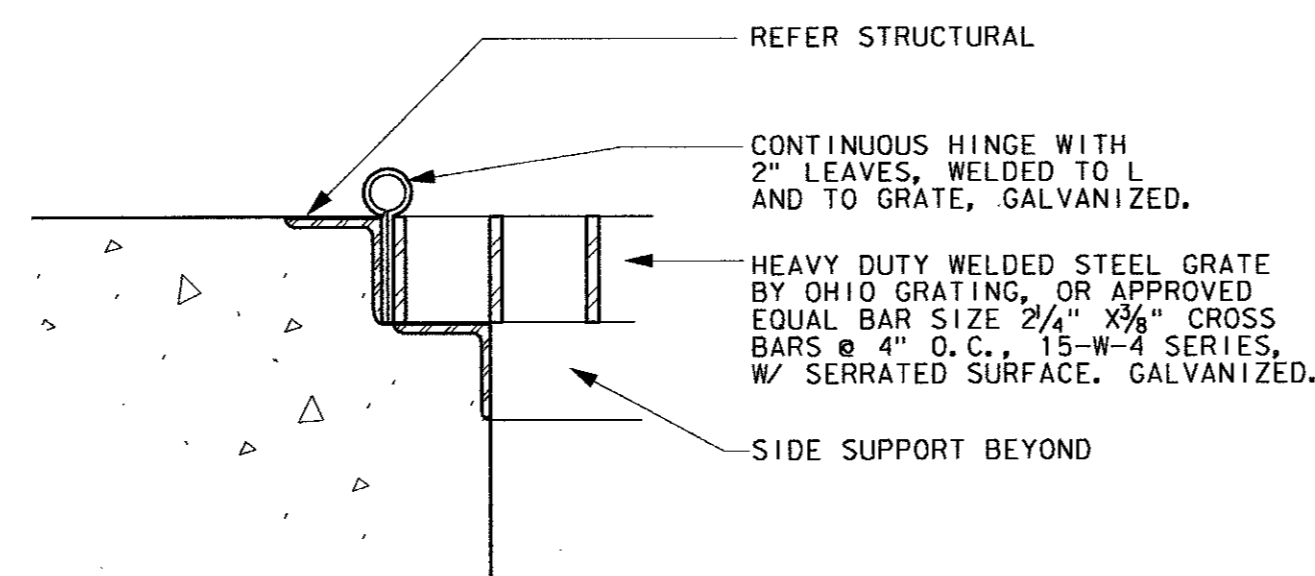
GENERAL NOTES:  
1. CAST STONE TO BE 6,500 PSI W/ LESS THAN 6% WATER ABSORPTION. WHITE CEMENT. MANUFACTURER TO BE MEMBER OF CAST STONE INSTITUTE.



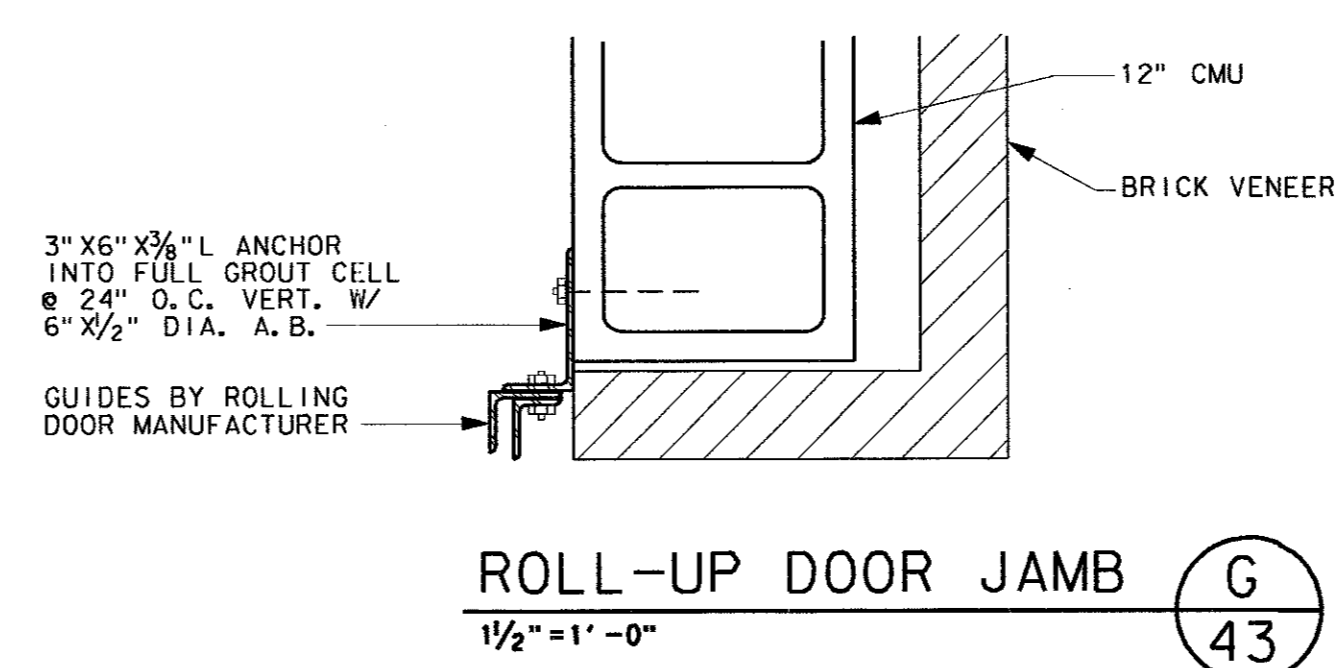
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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION - ARCHITECTURAL EXTERIOR ELEVATIONS			
<b>Carter &amp; Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7350 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
Job No.	93327601D	Sheet	42 of 63



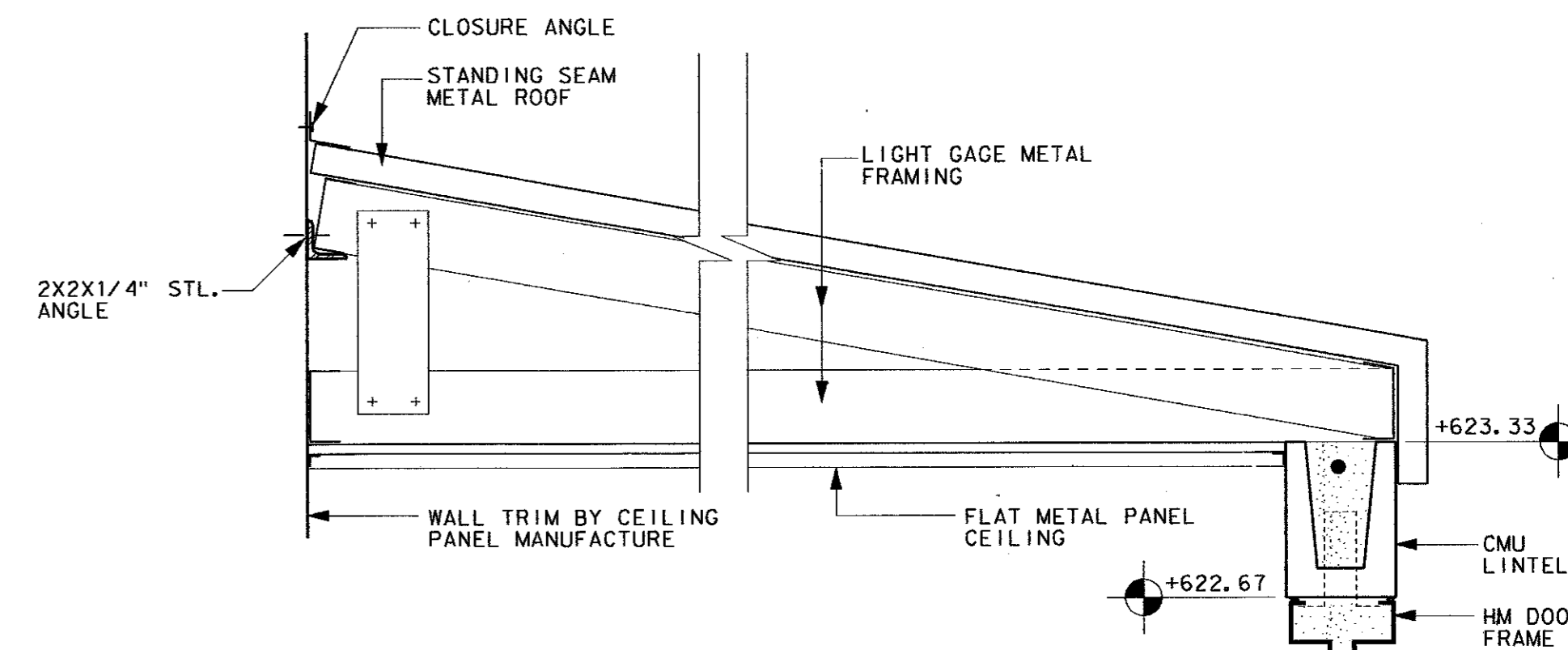
LOUVER HEAD (A) 43  
1 1/2" = 1'-0"



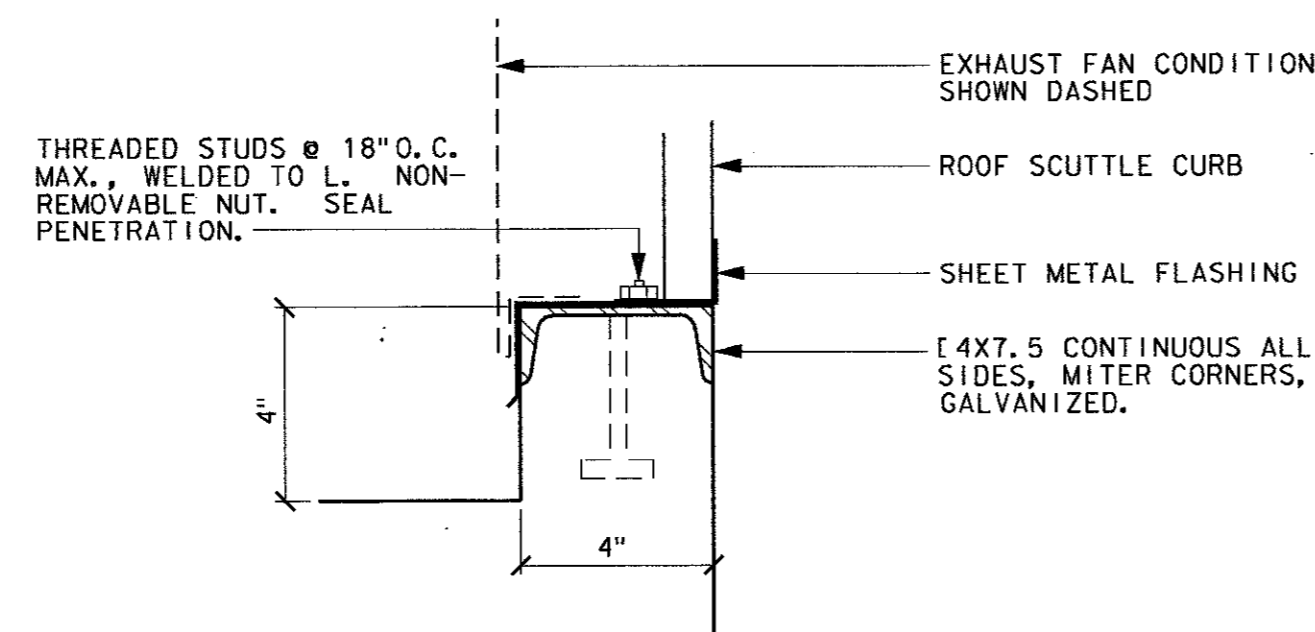
SECTION (D) 43  
3" = 1'-0"



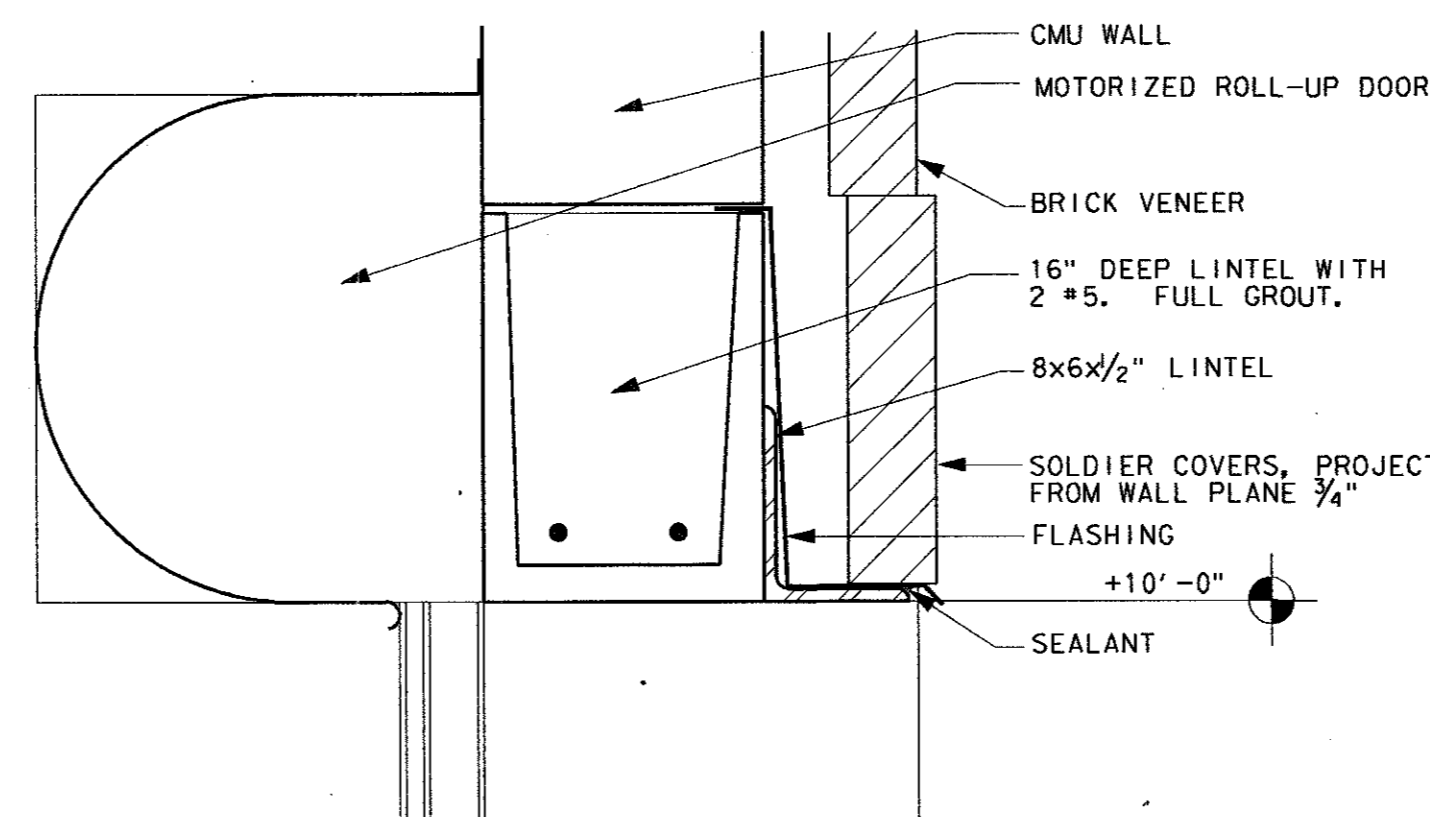
ROLL-UP DOOR JAMB (G) 43  
1 1/2" = 1'-0"



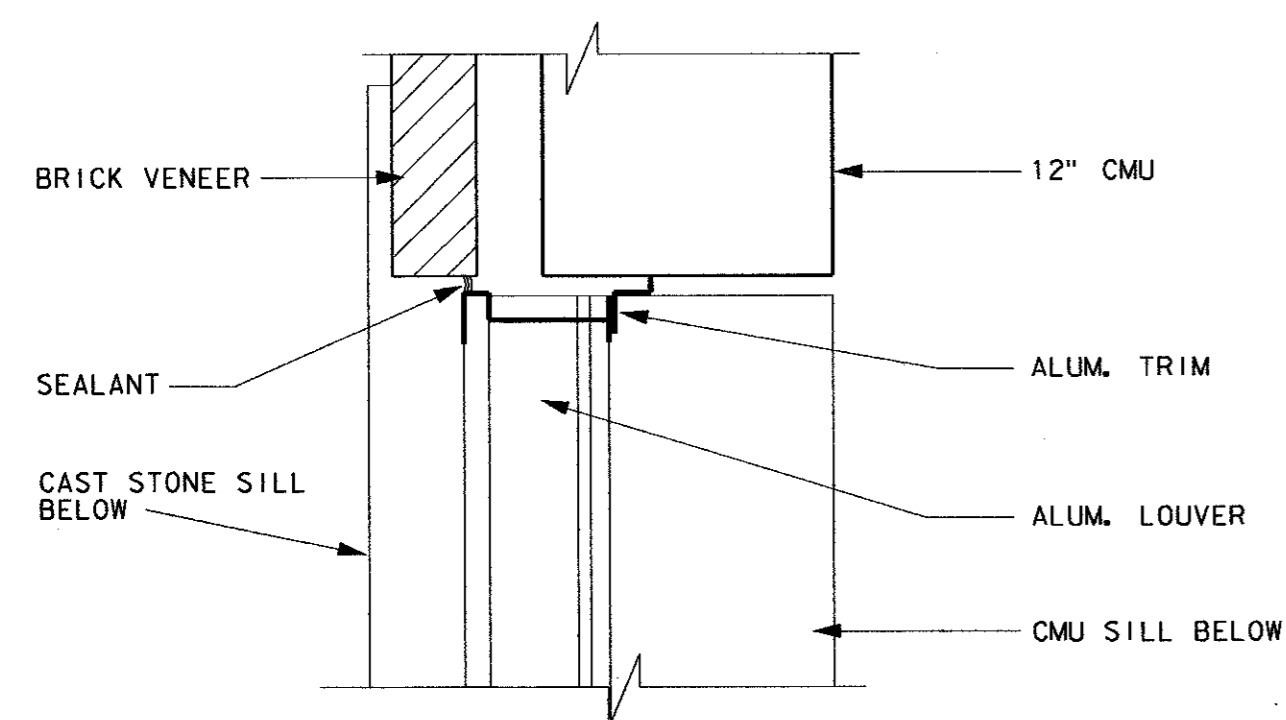
ROOF SECTION (K) 43  
1 1/2" = 1'-0"



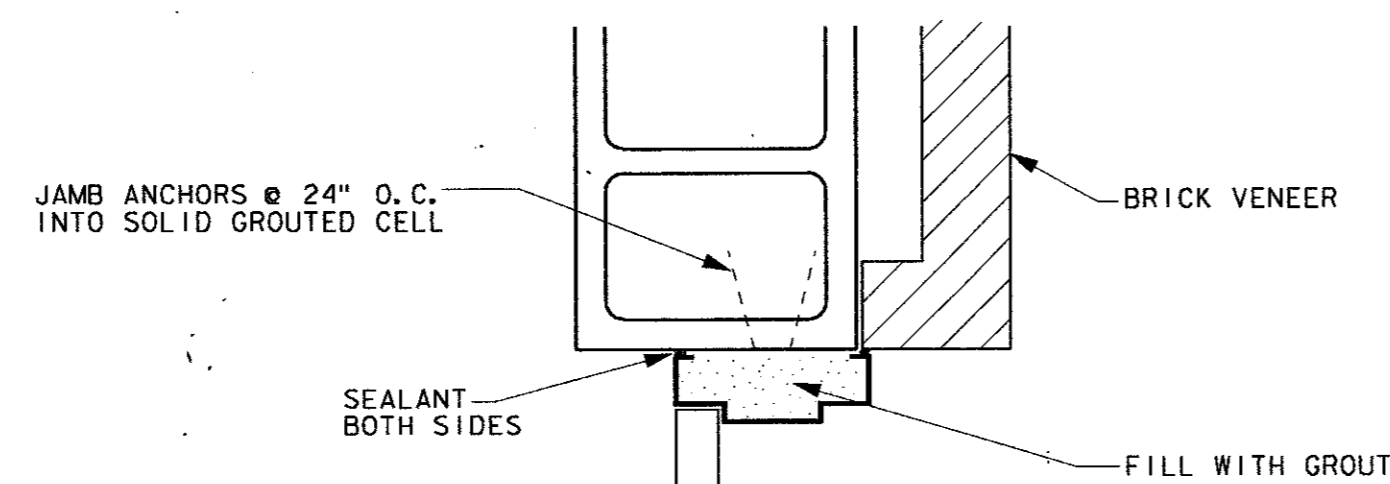
TYPICAL EQUIPMENT CURB (E) 43  
3" = 1'-0"



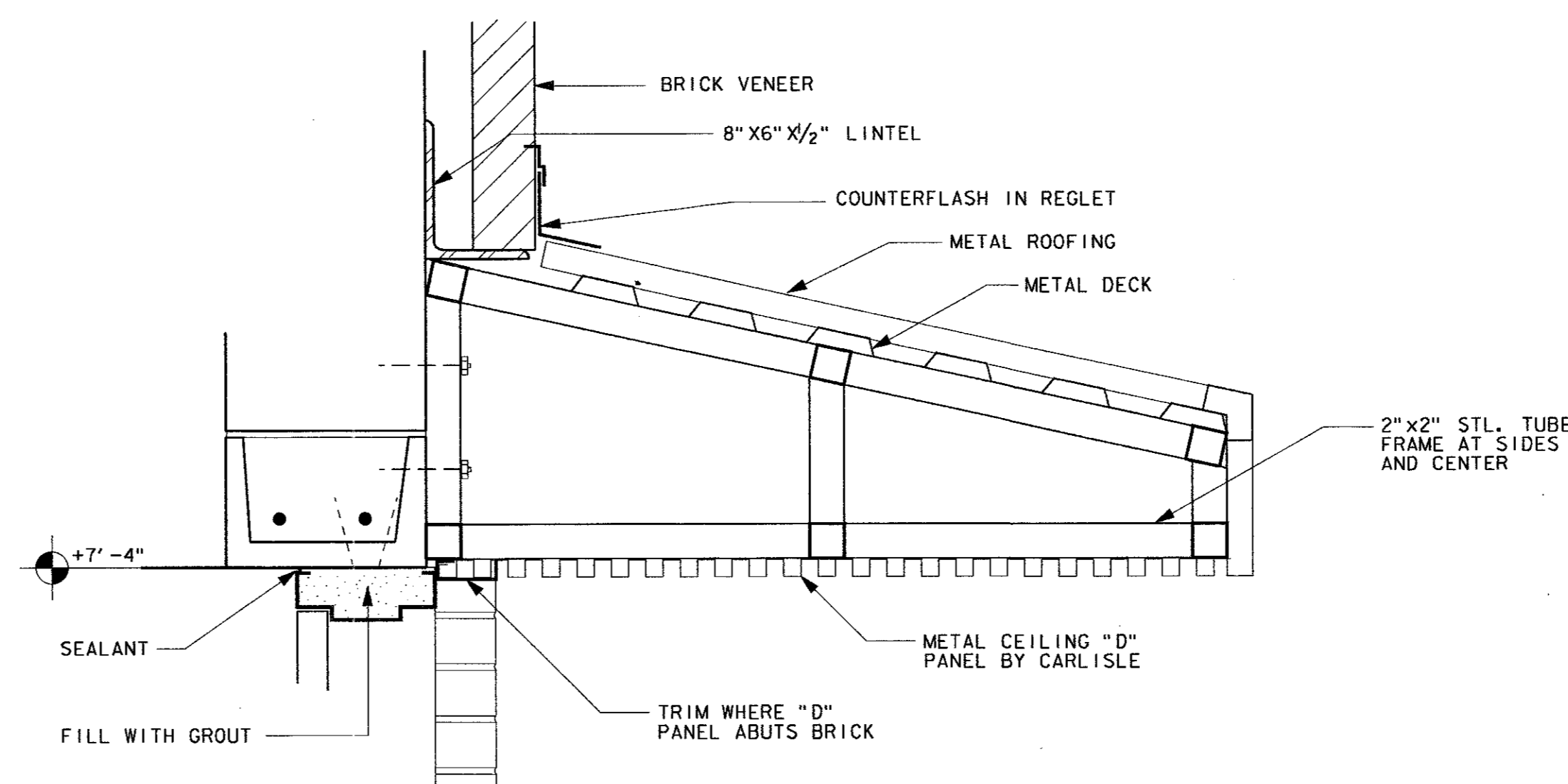
ROLL-UP DOOR HEAD (H) 43  
1 1/2" = 1'-0"



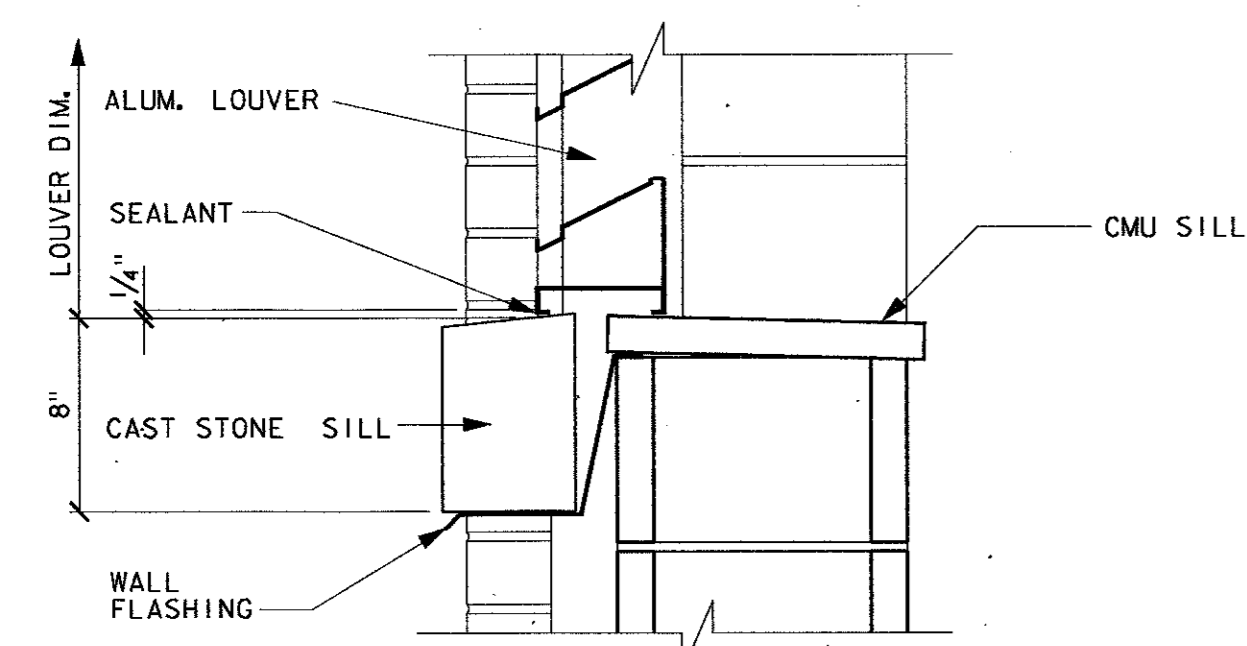
LOUVER JAMB (B) 43  
1 1/2" = 1'-0"



HM DOOR JAMB (F) 43  
1 1/2" = 1'-0"



HM DOOR HEAD (J) 43  
1 1/2" = 1'-0"



LOUVER SILL (C) 43  
1 1/2" = 1'-0"

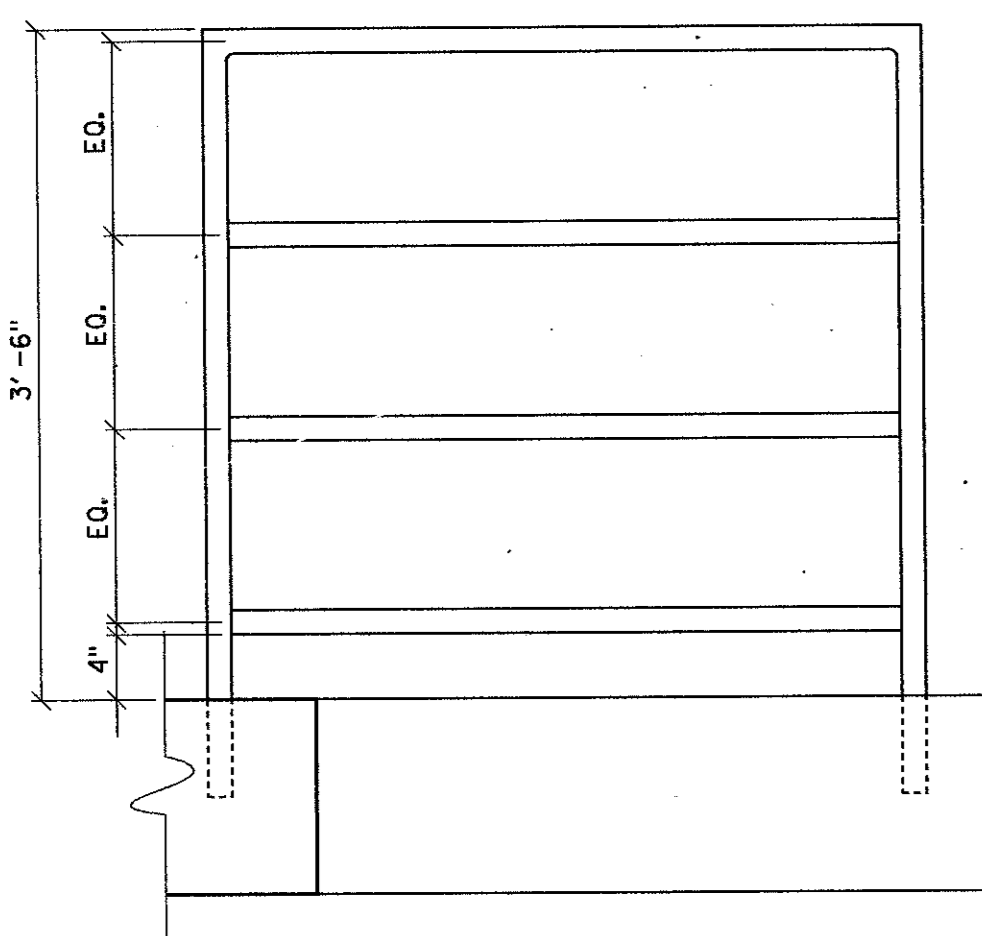
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NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
MIDWAY/BELTLINE SANITARY SEWER  
PHASE II  
LIFT STATION -  
ARCHITECTURAL DETAILS - SHEET 1

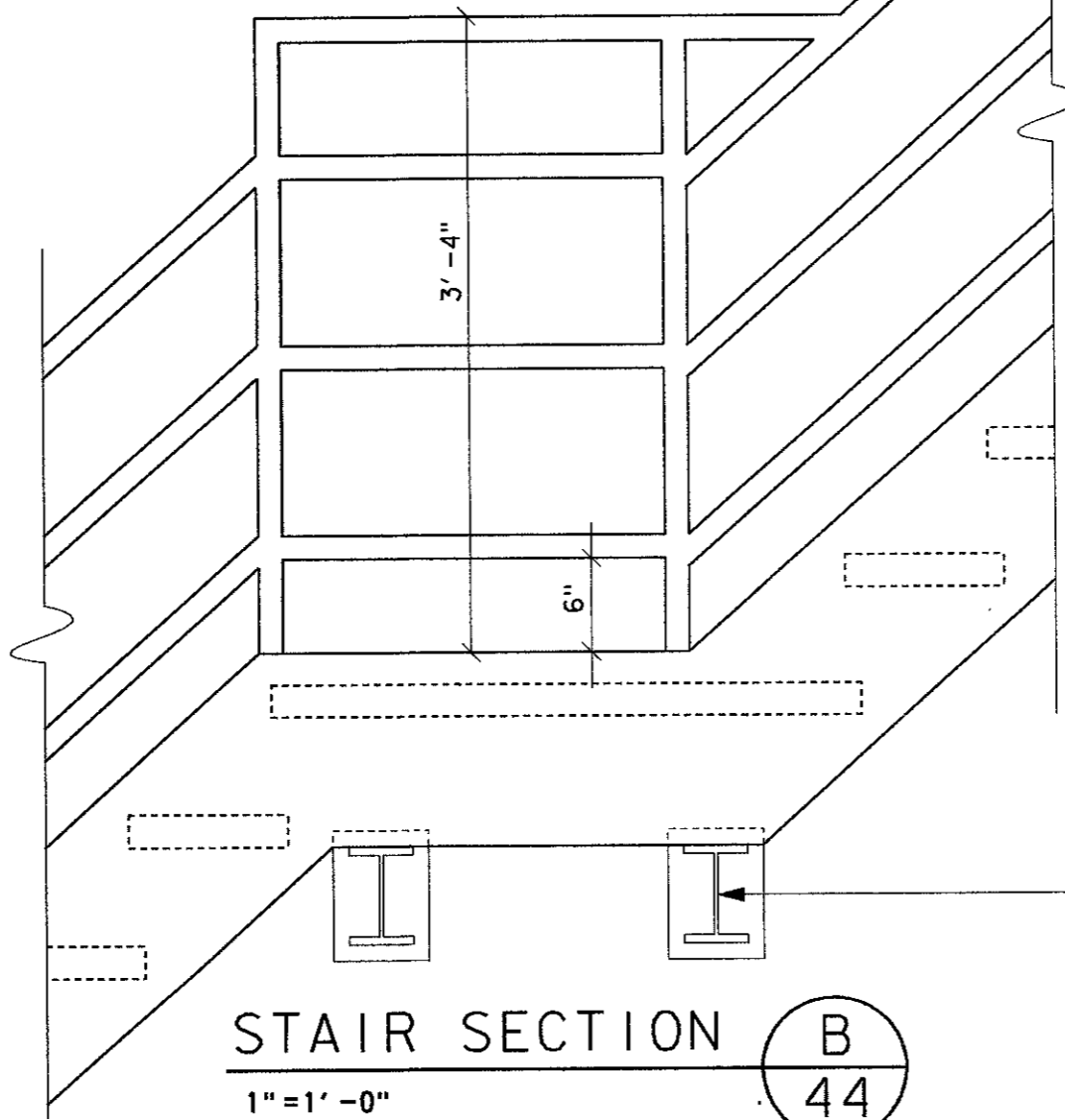
**Carter Burgess**  
Consultants in Engineering, Architecture,  
Planning and the Environment  
CARTER & BURGESS, INC.  
7950 EMBROOK DRIVE, SUITE 250  
DALLAS, TX 75247-4961



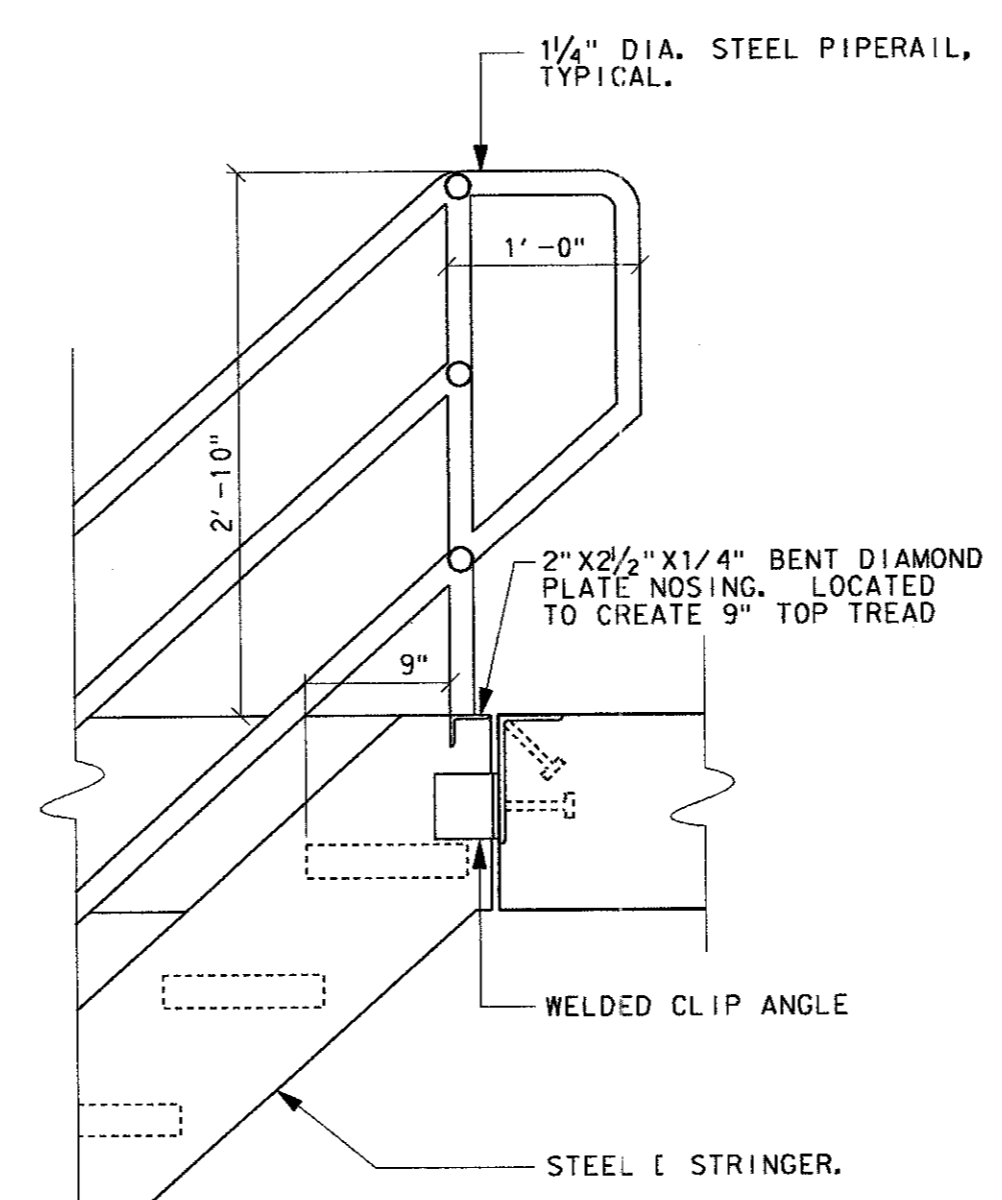
Unit	Scale	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
		Job No.	933276010
		Sheet	43 of 63



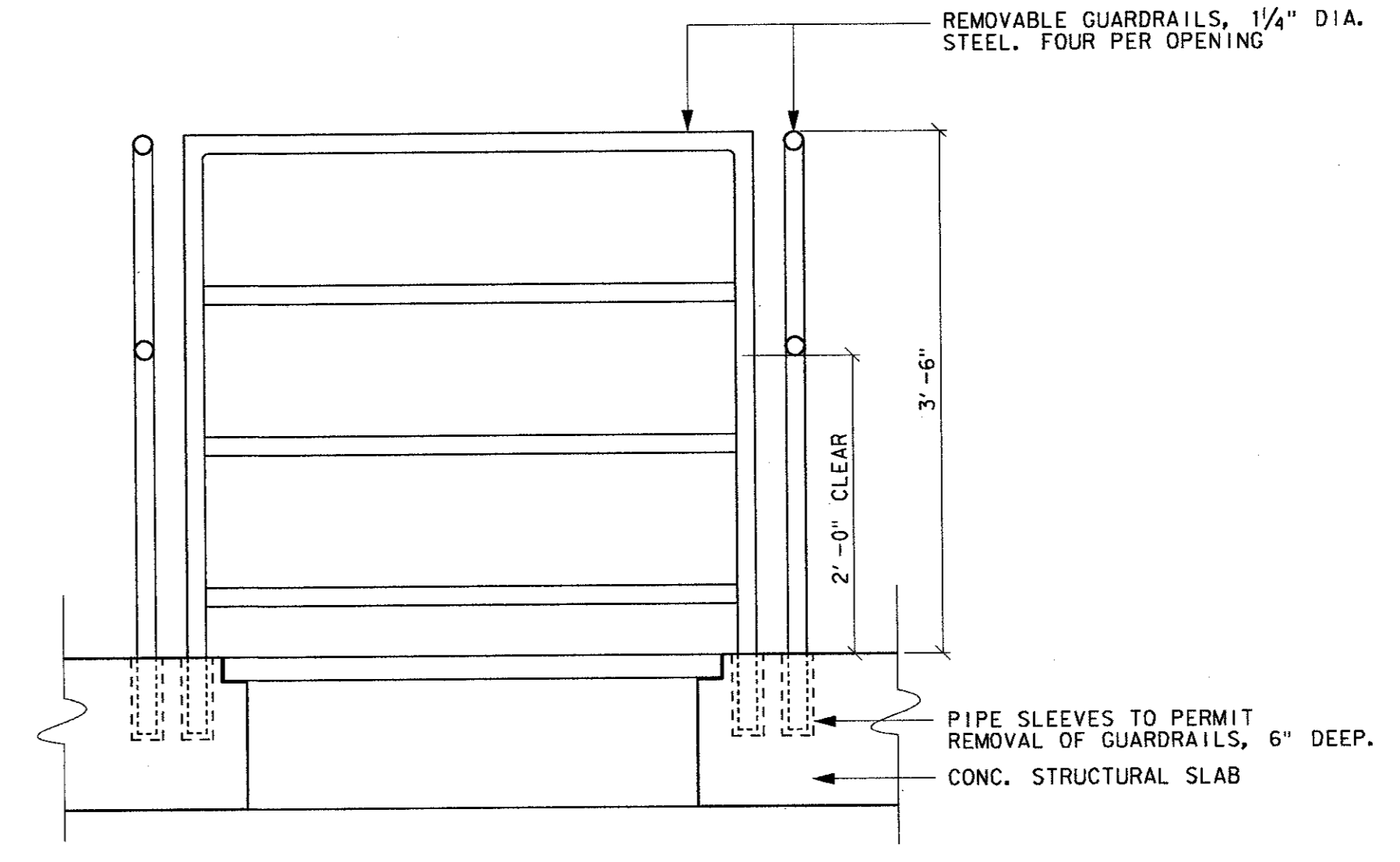
GUARDRAIL AT STAIR OPENING  
1"=1'-0" (A) 44



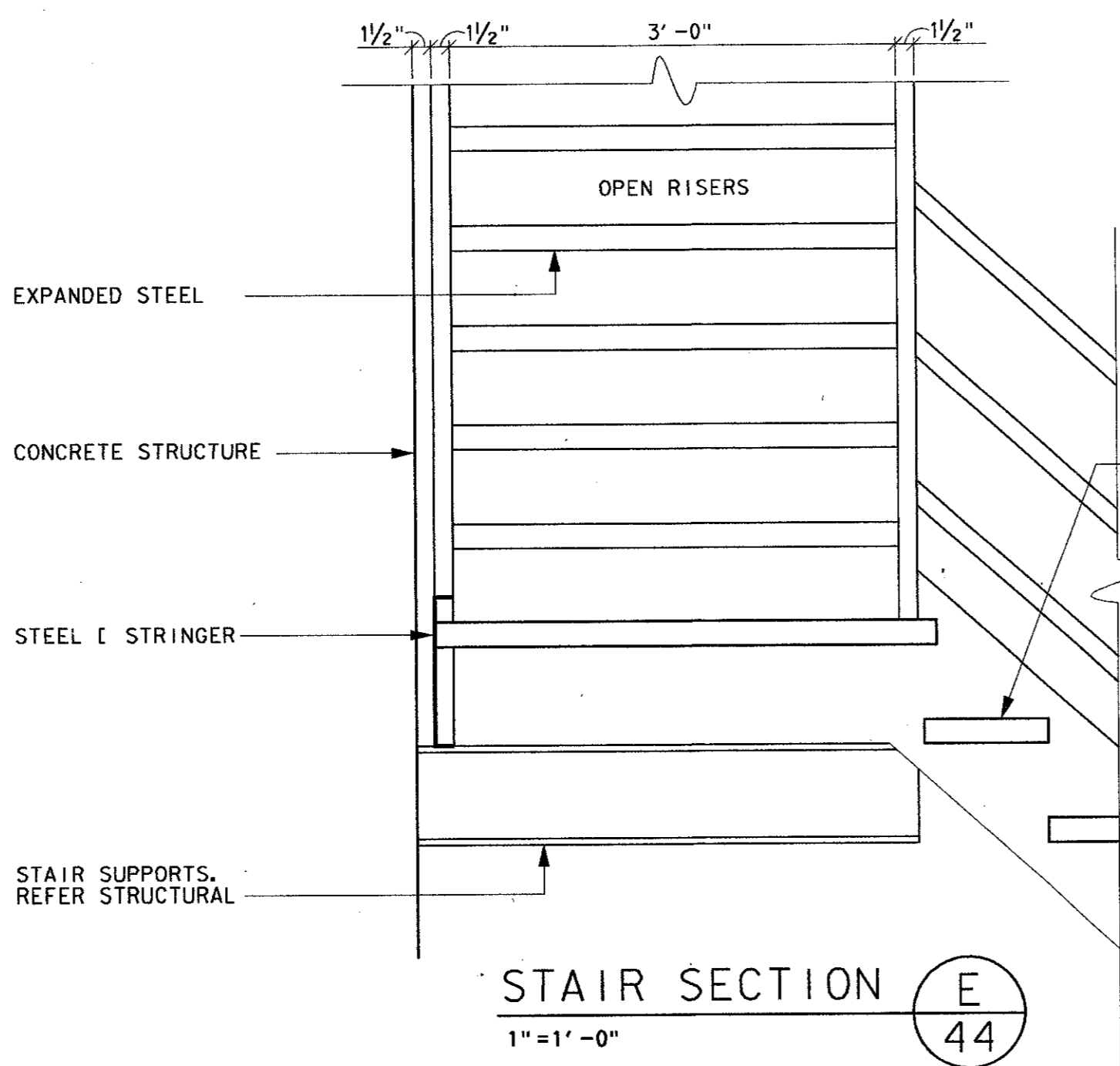
STAIR SECTION B  
1"=1'-0" (B) 44



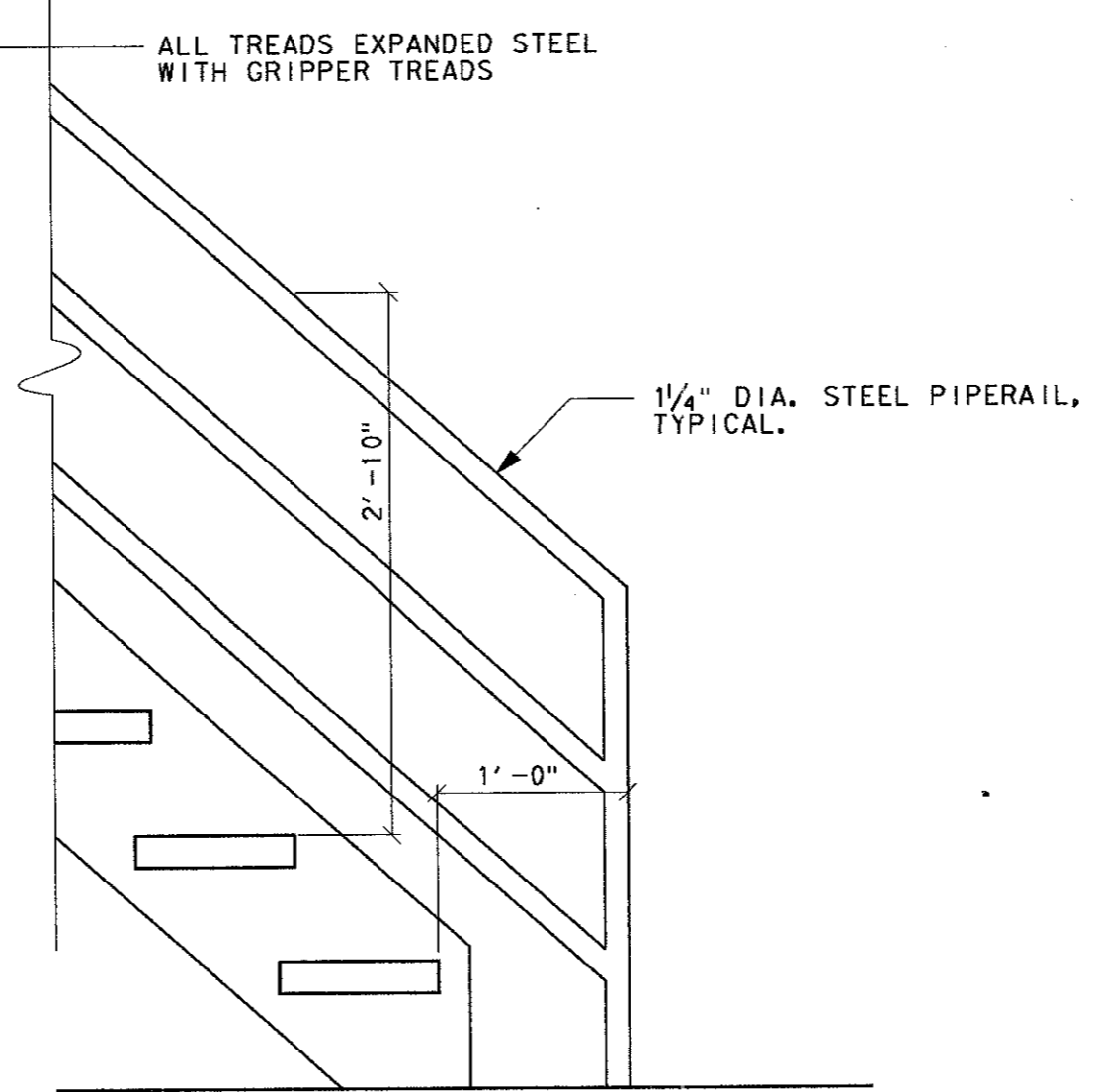
STAIR SECTION C  
1"=1'-0" (C) 44



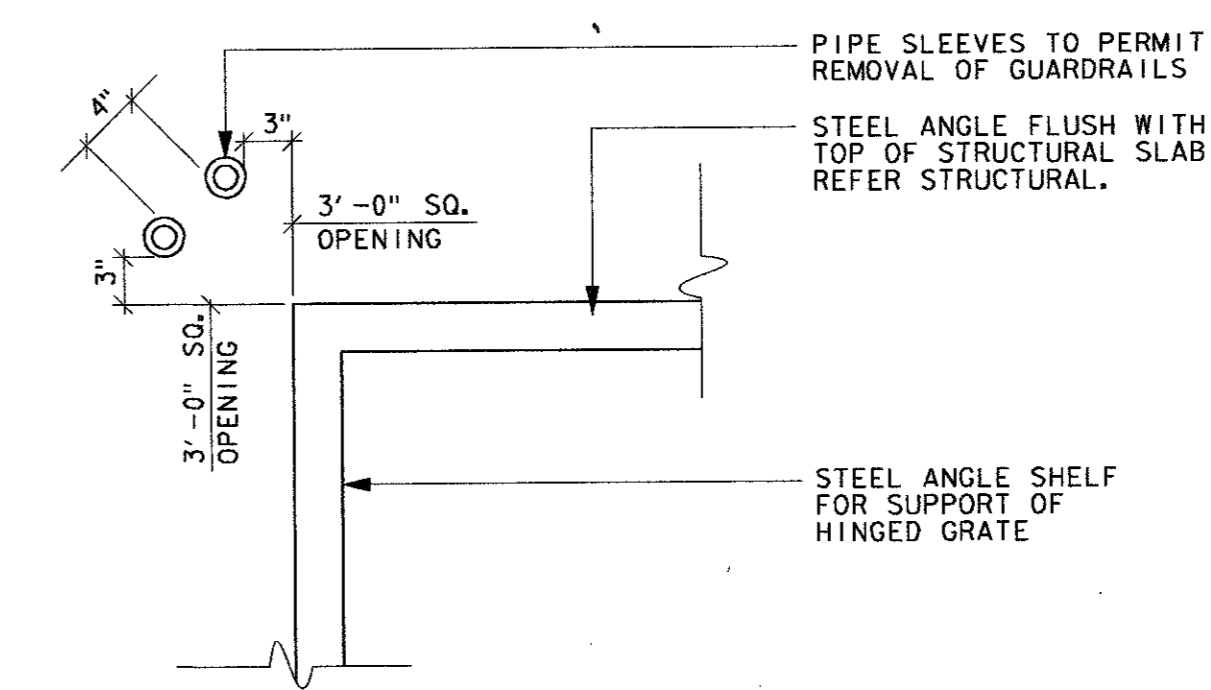
GUARDRAIL AT ACCESS HOLE  
1"=1'-0" (D) 44



STAIR SECTION E  
1"=1'-0" (E) 44



STAIR SECTION G  
1"=1'-0" (G) 44

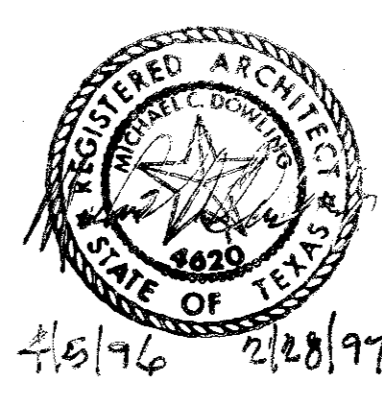


PLAN DETAIL AT ACCESS HOLE  
1"=1'-0" (F) 44

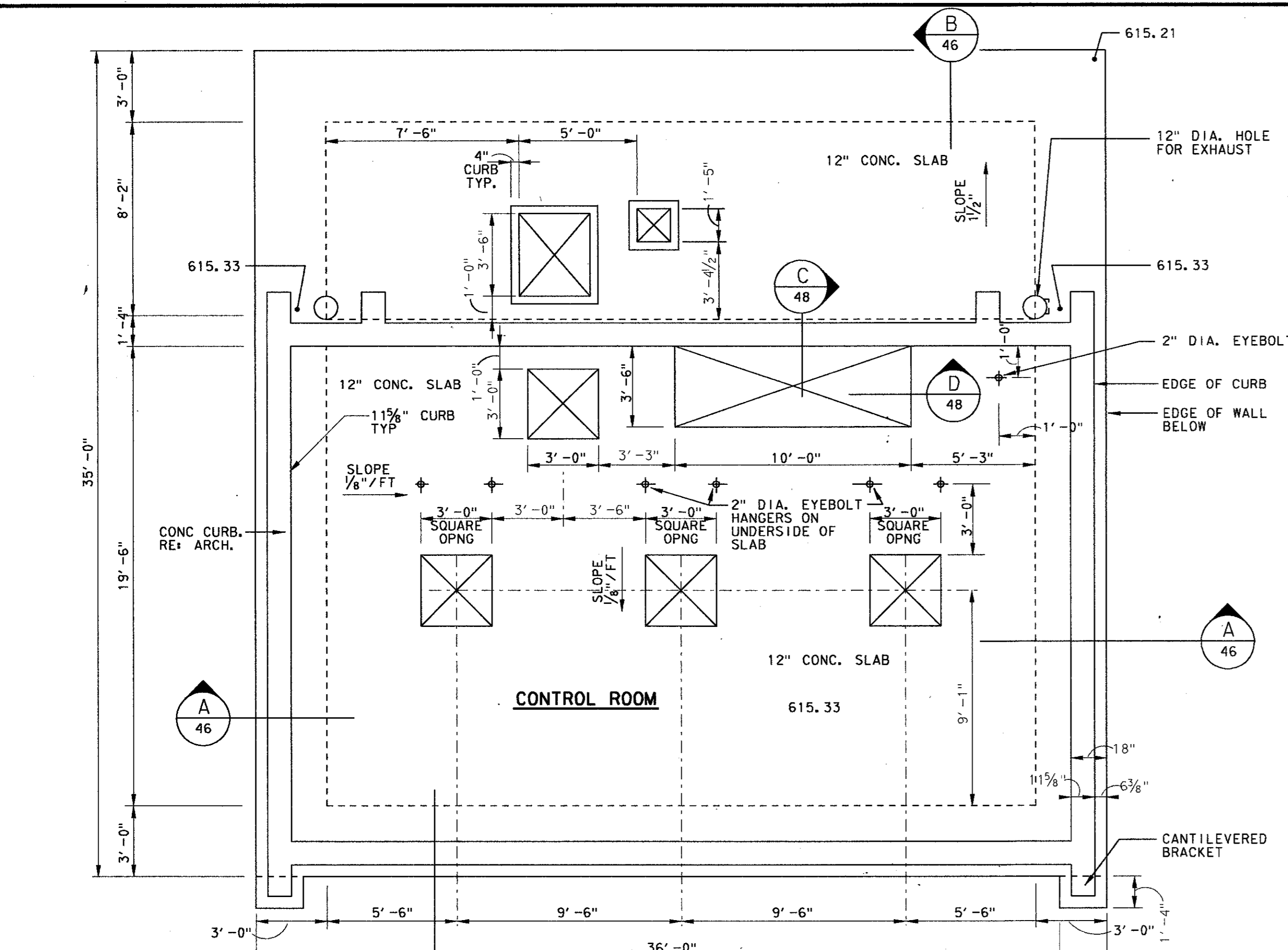
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TOWN OF ADDISON, TEXAS  
MIDWAY/BELTLINE SANITARY SEWER  
PHASE II  
LIFT STATION -  
ARCHITECTURAL DETAILS - SHEET 2

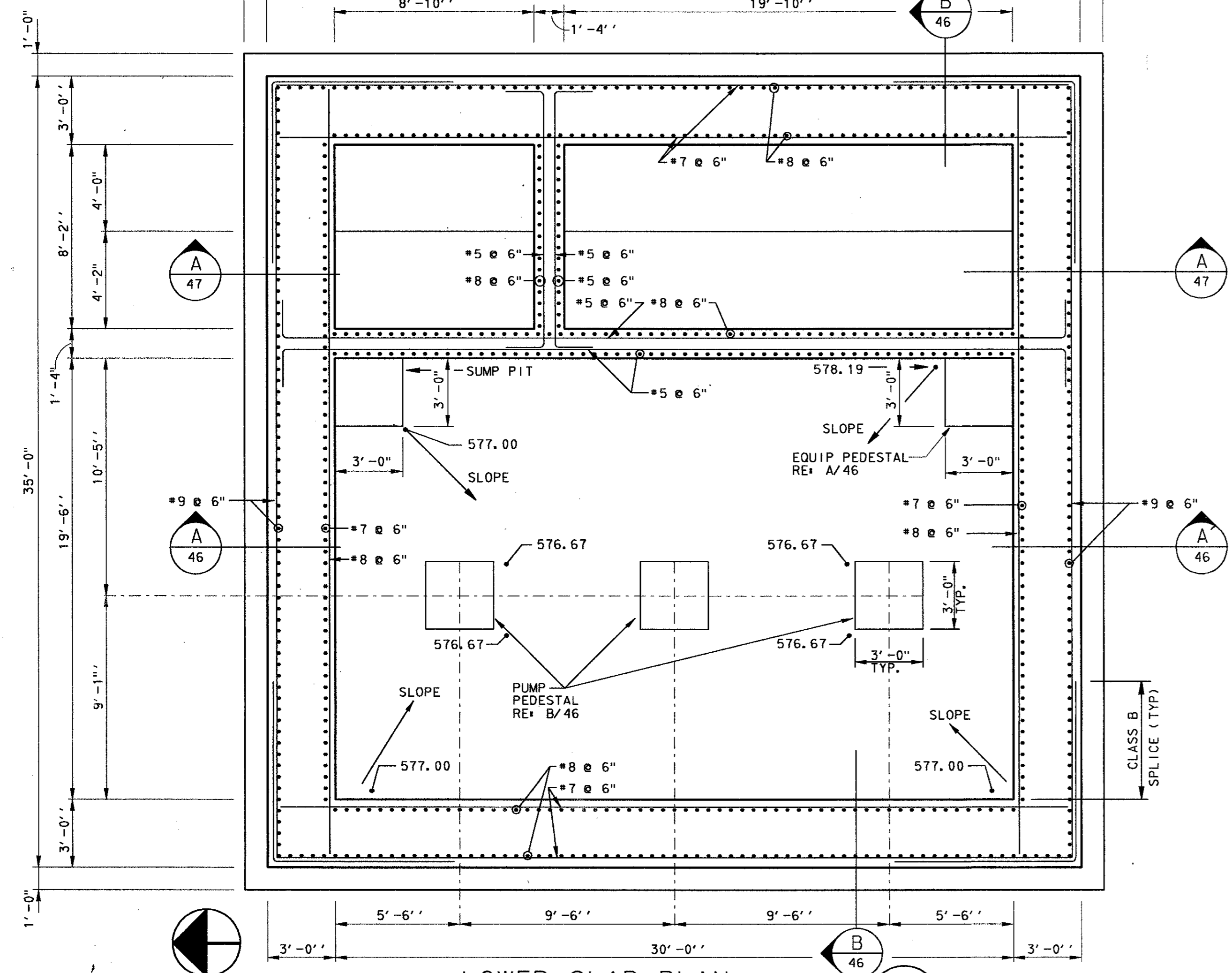
**Carter Burgess**  
Consultants in Engineering, Architecture,  
Planning and the Environment  
CARTER & BURGESS, INC.  
7950 ELMBROOK DRIVE, SUITE 250  
DALLAS, TX 75247-4963



Unit	Scale	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
Job No.	93327601D	Sheet	44 of 63



UPPER SLAB PLAN  
1/4" = 1' - 0"



LOWER SLAB PLAN  
1/4" = 1' - 0"

**GENERAL STRUCTURAL NOTES**

- BUILDING CODES AND DESIGN CODES:  
A. UNIFORM BUILDING CODE, LATEST EDITION  
B. AMERICAN CONCRETE INSTITUTE, ACI 318 BUILDING CODE, 1989  
C. ACI 359 COMMITTEE REPORT ON "CONCRETE SANITARY ENGINEERING STRUCTURES"  
D. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN (ASD), NINTH EDITION
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
- LOCATE, PROTECT AND COORDINATE NECESSARY DISCONTINUOUS SERVICE OF POWER AND OTHER POTENTIALLY HAZARDOUS UTILITIES WITH THE OWNER PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY OWNER OF ANY INCONSISTENCIES WITH THESE DRAWINGS.
- COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.
- DESIGN LOADS:  
ROOF LIVE LOAD: 20 PSF  
GROUND LEVEL FLOOR LIVE LOAD: 250 PSF UNIFORM  
BOTTOM MAT: HS20-44 250 PSF
- STEEL JOIST DESIGN LOADS:  
DEAD LOAD: 100 PLF  
LIVE LOAD: 120 PLF  
POINT LOAD (ANY LOCATION): 2000 LBS.  
NET UPLIFT: 15 PSF
- WIND LOADS:  
WIND VELOCITY: 70 MPH, EXPOSURE C, I=1.0

**FOUNDATION NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION SLOPE STABILITY. THE SELECTION OF THE EQUIPMENT AND THE METHOD OF SLOPE STABILITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE ADJACENT FOUNDATIONS ARE NOT UNDERMINED DURING EXCAVATION AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION DEWATERING. THE SELECTION OF THE EQUIPMENT AND THE METHOD OF DEWATERING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOOTING EXCAVATIONS WHICH WILL REMAIN OPEN FOR MORE THAN TWENTY FOUR (24) HOURS SHALL BE PROTECTED BY A SEAL SLAB OF FOOTING STRENGTH CONCRETE.
- SOILS INFORMATION IS BASED ON INFORMATION CONTAINED IN "GEOTECHNICAL REPORT FOR PROPOSED LIFT STATION, MIDWAY/BELTLINE SANITARY SEWER, ADDISON, TEXAS" DATED JUNE 30, 1995, BY HUNTINGTON/SWL, REPORT NO. 95-189-2. THE INFORMATION IS AVAILABLE UPON REQUEST.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL SITE AND SUBGRADE INFORMATION.
- MAT FOUNDATION DESIGN IS BASED ON BEARING IN GRAY LIMESTONE WITH AN ALLOWABLE BEARING CAPACITY OF 30,000 PSF.
- THE OWNER'S TESTING AGENCY SHALL OBSERVE FOUNDATION PLACEMENT TO VERIFY WORK IS BEING DONE IN ACCORDANCE WITH THESE DRAWINGS.

**CONCRETE NOTES**

- ALL CAST-IN-PLACE CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF THE FOLLOWING:  
SLABS, FOOTINGS AND BEAMS: 4000 PSI  
FILL FOR MASONRY CORES AND BOND BEAMS: 3000 PSI
- PROVIDE THE SURFACE FINISH INDICATED FOR THE FOLLOWING AREAS:  
SLABS: TROWEL FINISH  
EXPOSED FORMED CONCRETE: SMOOTH RUBBED FINISH  
EXTERIOR RAMP: BROOM FINISH
- REINFORCING SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. PROVIDE FLAT SHEETS ONLY.
- ALL ANCHOR BOLTS SHALL CONFORM TO THE STANDARDS OF ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
- ALL DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING SHALL BE IN ACCORDANCE WITH ACI 301, 315R, 318 AND DETAILING MANUAL SP66.
- CONSTRUCTION AND SAW JOINTS SHALL CONFORM TO PLANS AND DETAILS. HORIZONTAL CONSTRUCTION JOINTS WILL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED.
- APPROVED DOWEL ASSEMBLY DEVICES SHALL BE USED TO SUPPORT DOWELS AT ALL SLAB CONSTRUCTION JOINTS.
- MAINTAIN THE FOLLOWING COVERAGE FOR REINFORCING STEEL UNLESS OTHERWISE NOTED:  
CONCRETE CAST AGAINST EARTH: 3"  
CONCRETE EXPOSED TO WEATHER OR EARTH: 2"
- CONCRETE NOT EXPOSED TO WEATHER:  
SLABS: 3/4"  
WALLS, BEAM STIRRUPS & PEDESTAL TIES: 1 1/2"
- ALL LAP SPLICES SHALL BE CLASS B, AND ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318-89, UNLESS NOTED OTHERWISE. SPLICES SHALL BE STAGGERED UNLESS SPECIFICALLY NOTED.
- ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
- NO REINFORCEMENT SHALL BE WELDED OR BENT IN THE FIELD UNLESS SPECIFICALLY SHOWN.
- WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.
- CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
- CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDMENTS AND ANCHOR BOLTS. ANCHOR BOLTS SHALL BE SET WITH A TEMPLATE. ALL EMBEDDED ITEMS SHALL BE SECURELY ATTACHED TO FORMWORK OR REINFORCING.
- REFERENCE PLUMBING PLANS FOR ALL SUBSLAB PIPING, FLOOR DRAINS, AND SLAB PIPE PENETRATIONS.
- REFERENCE SPECIFICATIONS FOR CONCRETE TESTING REQUIREMENTS.

**MASONRY NOTES**

- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE STRUCTURAL CLAY PRODUCTS INSTITUTE.
- HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE I, LIGHT WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH (f<sub>m</sub>) OF 1900 PSI ON THE NET SECTION.
- ALL MORTAR SHALL CONFORM TO ASTM C270, TYPE S. MINIMUM MASONRY STRENGTH (f<sub>m</sub>) SHALL BE 1500 PSI.
- ALL GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- REINFORCING BARS FOR REINFORCED MASONRY SHALL CONFORM TO ASTM A615, GRADE 60.
- VERTICAL CELLS TO BE FILLED WITH GROUT SHALL BE ALIGNED TO PROVIDE A CONTINUOUS, UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON THE PLANS.
- GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE CONSOLIDATED IN PLACE BY VIBRATION OR OTHER METHODS WHICH ENSURE COMPLETE FILLING OF THE CELLS.
- HOLLOW UNITS SHOULD BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS EXCEPT THAT WEBS SHOULD ALSO BE BEDDED WHERE THEY ARE ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT.
- ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHER TRADES, SHALL BE DONE BY MASONRY MECHANICS WITH MASONRY SAWS.
- ANCHORS, WALL PLUGS, ACCESSORIES AND OTHER ITEMS TO BE BUILT IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES.
- ALL WALLS SHALL HAVE HORIZONTAL JOINT REINF. AT 16" CONSISTING OF TWO 3/8" DIA. RODS WITH 9 GA. CROSS TIES AT 16".
- THE OWNER'S TESTING AGENCY SHALL OBSERVE INSTALLATION OF MASONRY TO VERIFY WORK IS BEING DONE IN ACCORDANCE WITH THESE DRAWINGS.

**STRUCTURAL STEEL NOTES**

- ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, ASD NINTH EDITION.
- ALL STRUCTURAL STEEL SHALL BE OF THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTED OTHERWISE AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.  
A. ANGLES AND PLATES: A36

**STEEL JOIST NOTES**

- STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI), LATEST EDITION, SUPPLEMENTED BY THE INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS.
- JOIST DEPTH SHOWN ON THE STRUCTURAL DRAWINGS ARE DEPTHS AT MID SPAN.
- ALL STEEL JOISTS SHALL BE OPEN WEB UNDERSLUNG, TOP CHORD DOUBLE SLOPED.
- JOISTS SHALL BEAR 2 1/2" MINIMUM ON STRUCTURAL STEEL.
- ALL STEEL JOISTS SHALL HAVE WELDED CONNECTIONS UNLESS OTHERWISE NOTED. WELDS SHALL BE 3/8" x 2" LONG MINIMUM FILLETS EACH SIDE OF JOIST SEAT AND AS INDICATED ON DRAWINGS.
- STEEL JOIST FABRICATOR SHALL PROVIDE ALL ANGLE BRIDGING. BRIDGING SHALL BE COMPLETELY INSTALLED AND ANCHORED AND ALL JOISTS PERMANENTLY FASTENED INTO PLACE BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS.
- ALL JOISTS SHALL HAVE 2 1/2" DEEP SEATS, UNLESS NOTED OTHERWISE.
- DESIGN AND FABRICATE STEEL JOIST WITH CAMBER IN ACCORDANCE WITH SJI.
- REMOVE LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS FROM FABRICATED JOISTS AND ACCESSORIES AND APPLY ONE COAT MANUFACTURER'S STANDARD GRAY PRIMER IN SHOP.
- SUBMIT SHOP DRAWINGS INCLUDING PIECE AND ERECTION DRAWINGS.

**METAL DECK NOTES**

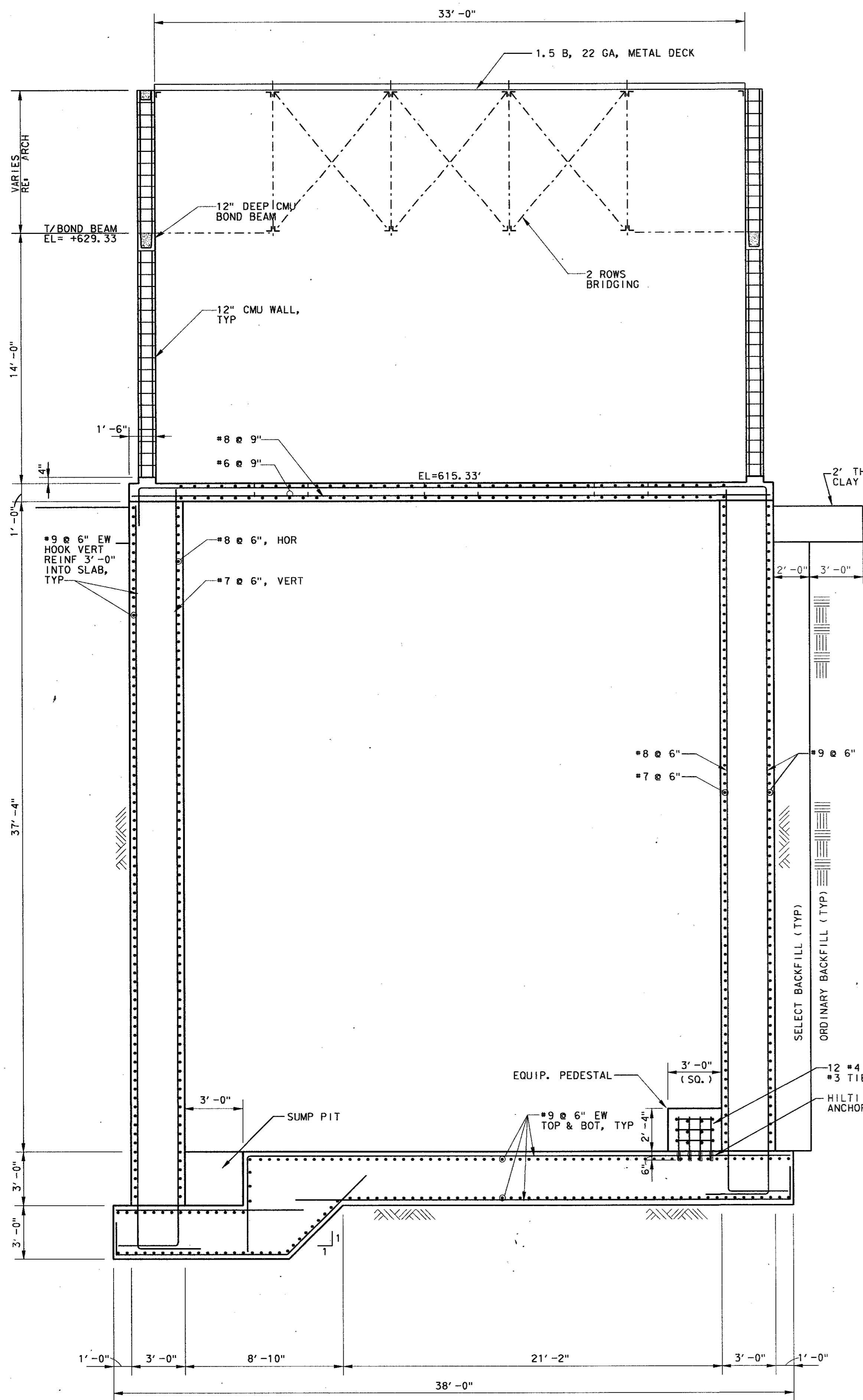
- DESIGN, FABRICATION, AND ERECTION OF METAL DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE'S "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS," LATEST EDITION.
- STEEL ROOF DECK SHALL BE 1 1/2" 22 GAGE WIDE RIB, GALVANIZED.
- INFILL DECK SHALL BE FASTENED OVER SUPPORTS AND AT BUILDING PERIMETER WITH #12 TEK SCREWS IN A 36/7 PATTERN 6" O.C. SIDELAPS SHALL BE FASTENED WITH #10 TEK SCREWS AT 1'-0" ON CENTER.
- WELDING OF DECK IS NOT PERMITTED.
- SUBMIT SHOP DRAWINGS INDICATING TYPE, FINISH, OPENINGS, ACCESSORIES AND ATTACHMENT.
- REMOVE LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS FROM DECK AND APPLY EPOXY PAINT PER MANUFACTURER'S SPECIFICATIONS.

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NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
MIDWAY/BELTLINE SANITARY SEWER  
PHASE II  
LIFT STATION  
STRUCTURAL PLANS AND GENERAL NOTES



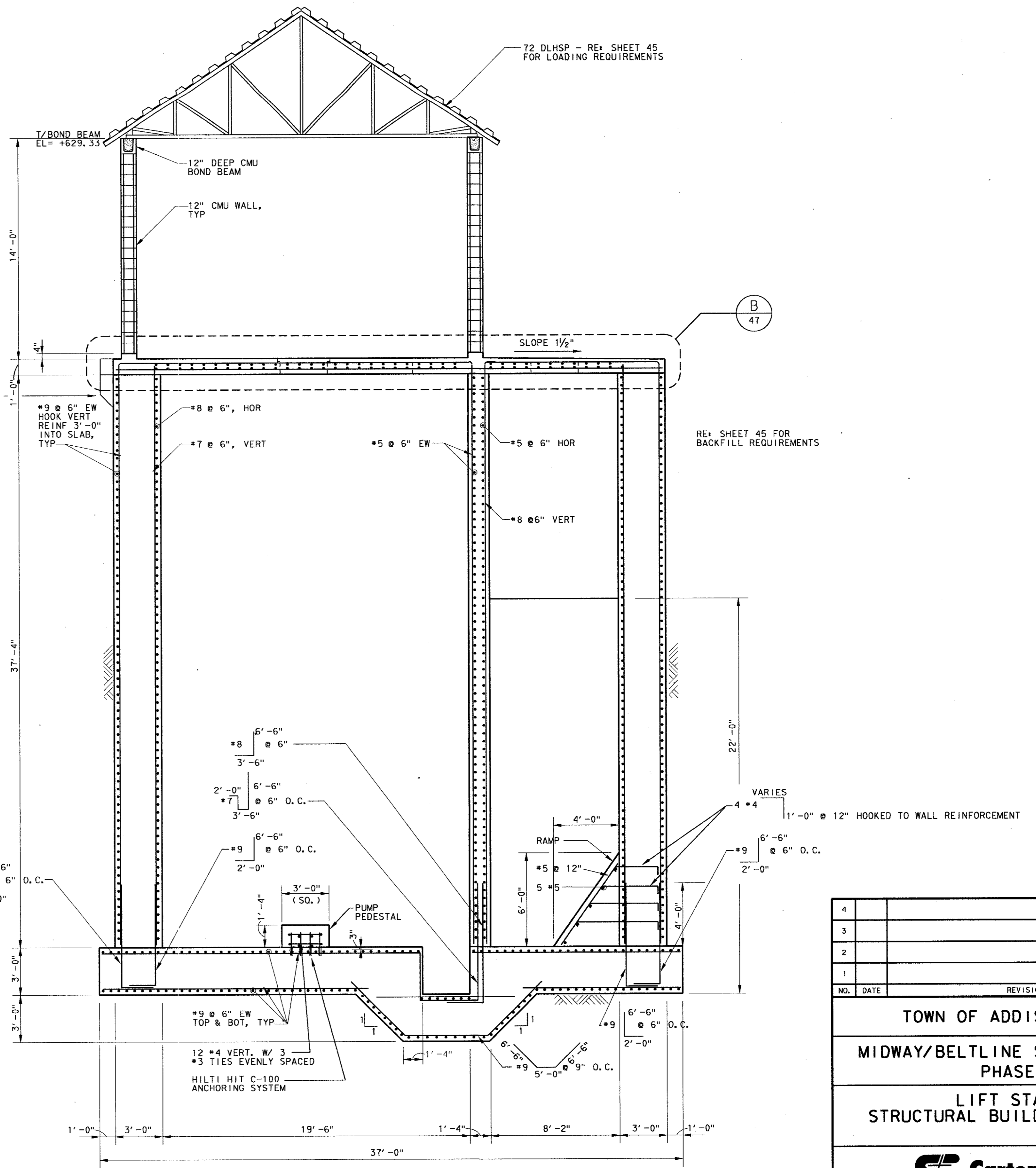
Unit	Scale	Date	04-05-96
Designed	K. Houghton	Checked	K. Houghton
Drawn	C. Sammons	Approved	J. Lindner
Job No.	93327601D	Sheet	45 of 63



SECTION A

1/4" = 1' - 0"

NOTE: BRACE WALLS CONTINUOUSLY AT TOP DURING BACKFILLING OPERATION. BRACING TO REMAIN IN PLACE UNTIL TOP SLAB HAS REACHED 75% OF ITS DESIGN STRENGTH.



SECTION B

1/4" = 1' - 0"

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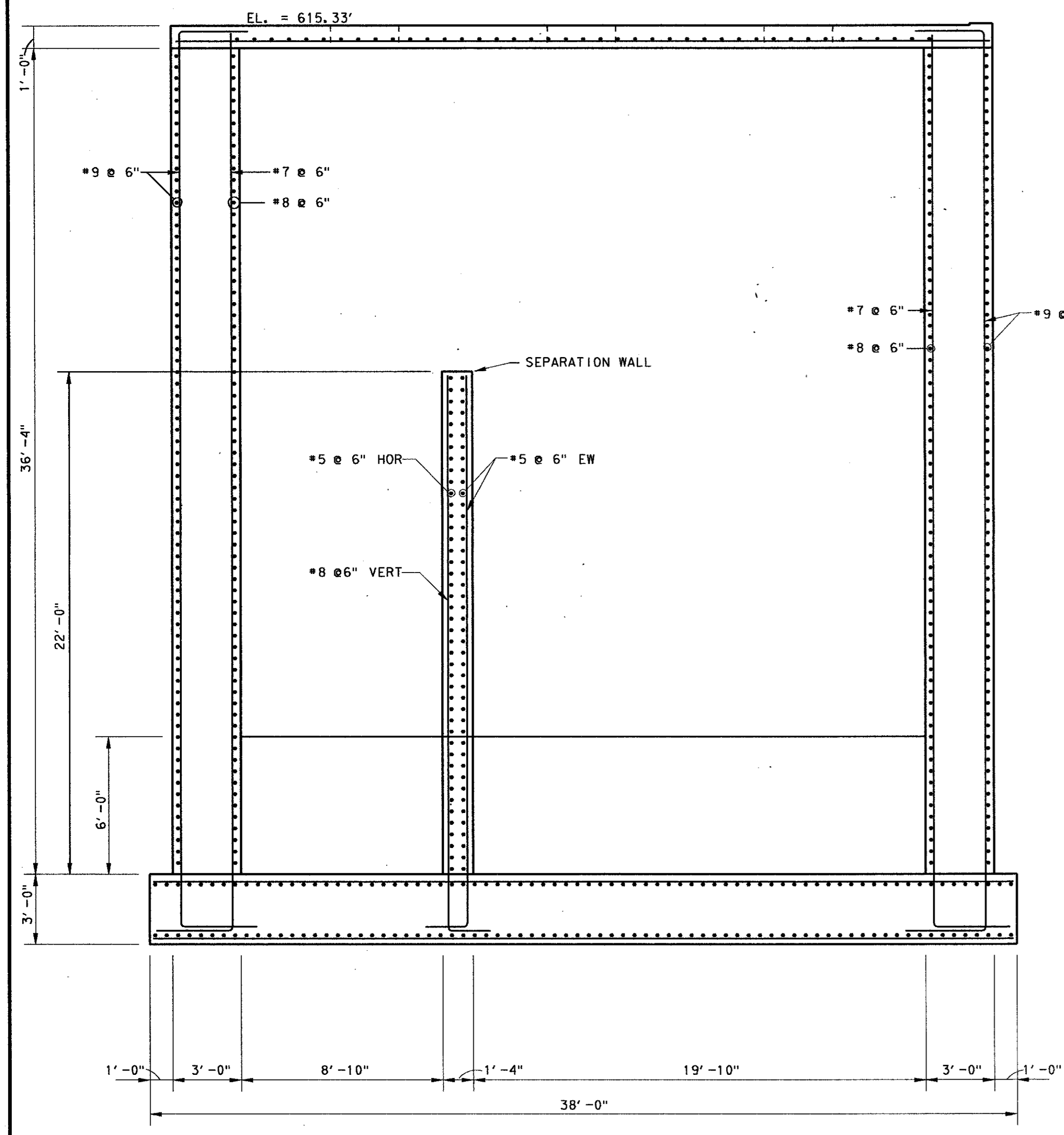
TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LIFT STATION  
 STRUCTURAL BUILDING SECTIONS

**Carter Burgess**  
 Consultants in Engineering, Architecture,  
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 CARTER & BURGESS, INC.  
 7550 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961

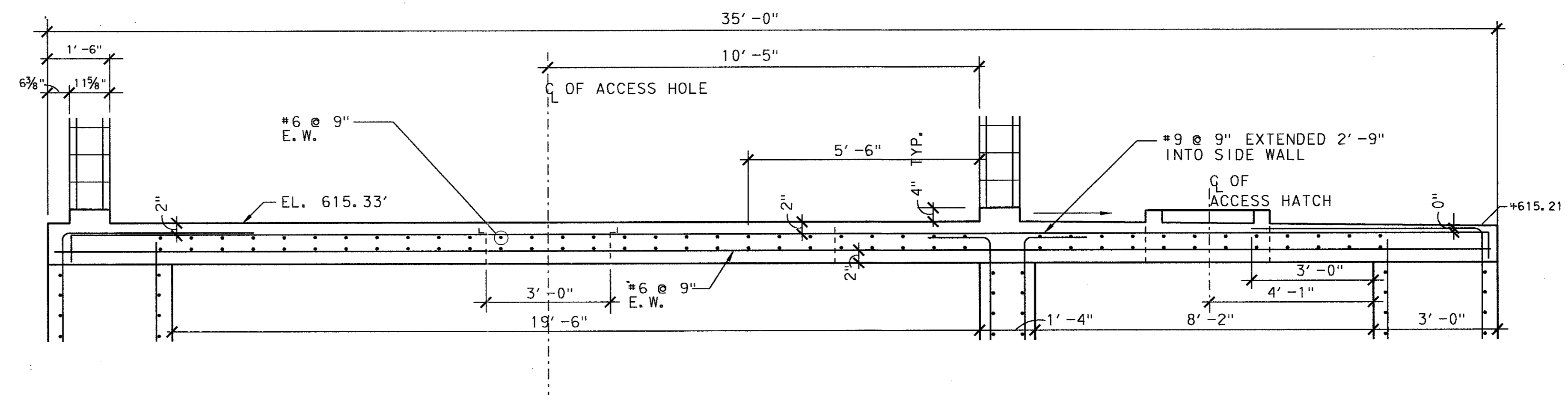
Unit	Scale	Date	04-05-96
Designed	K. Houghton	Checked	K. Houghton
Drawn	C. Sammons	Approved	J. Lindner
Job No.	93327601D	Sheet	46 of 63



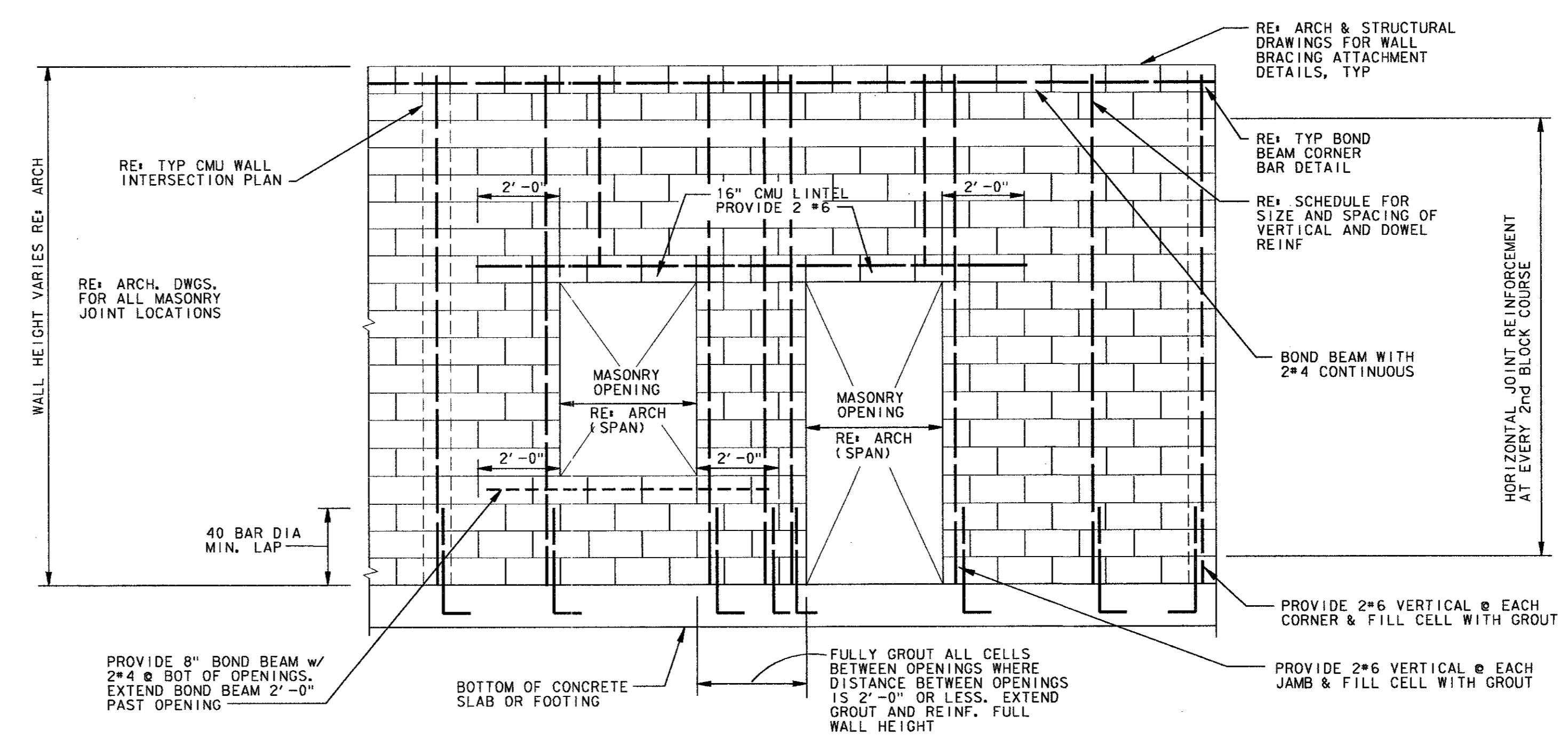
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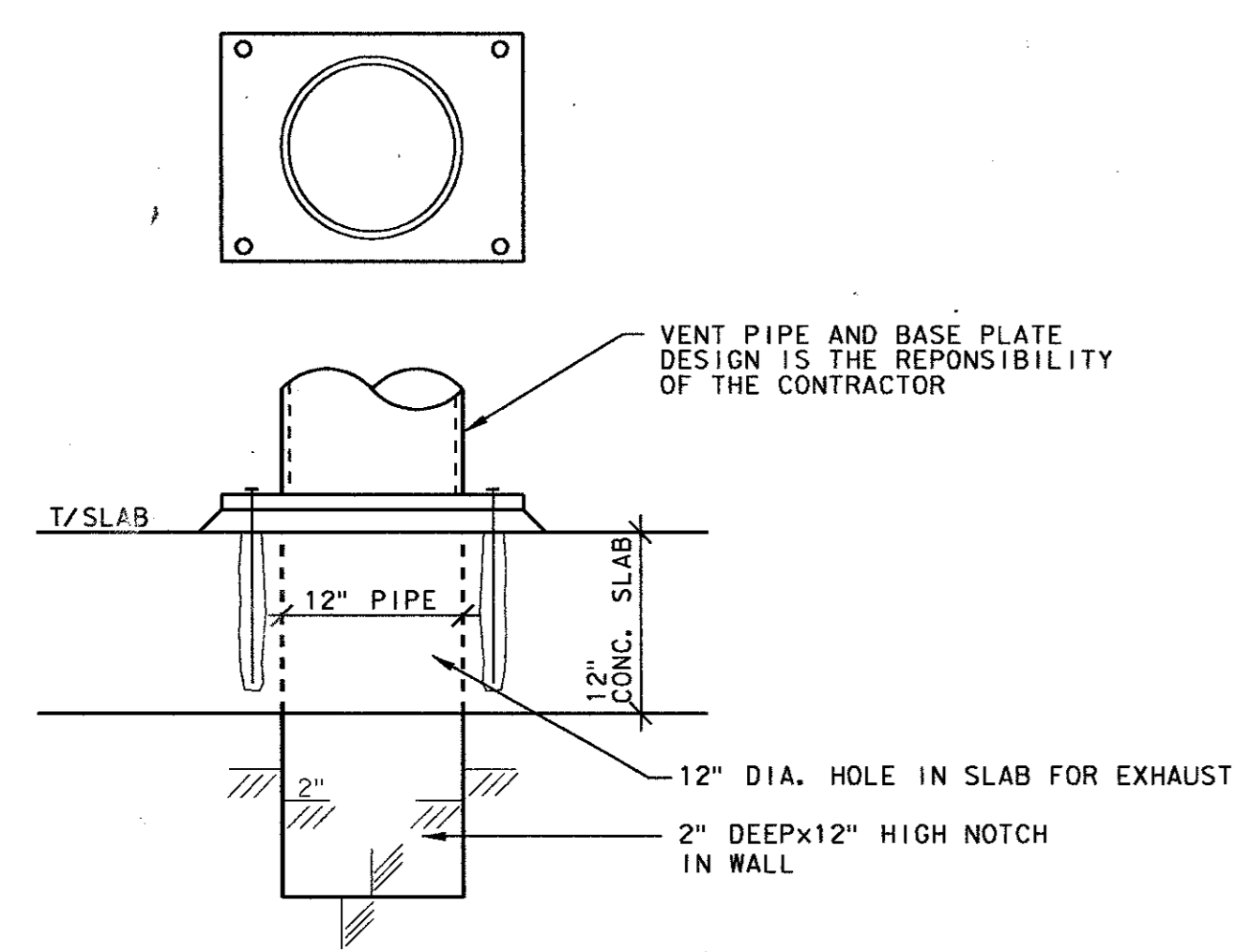
SECTION A  
1/4" = 1'-0"



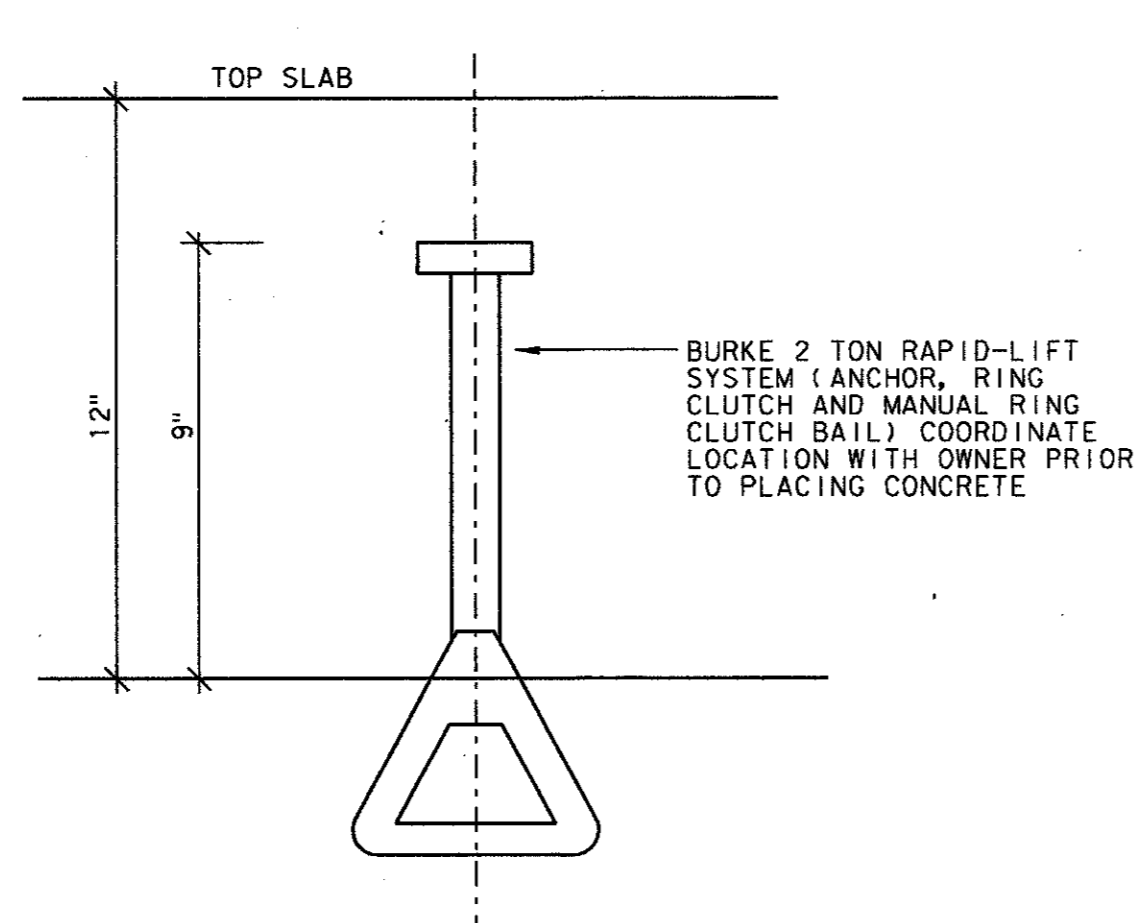
UPPER SLAB REINFORCEMENT B  
1/2" = 1'-0"



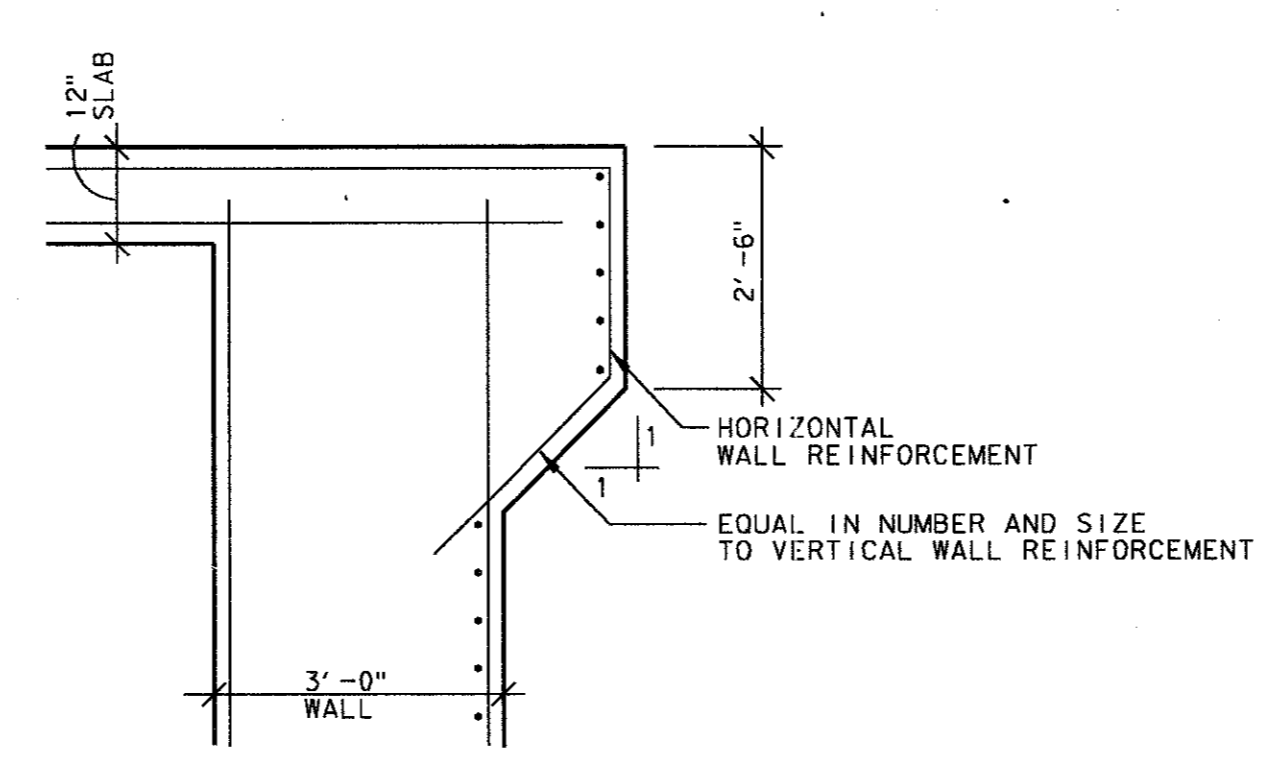
TYPICAL CMU WALL ELEVATION C  
NTS



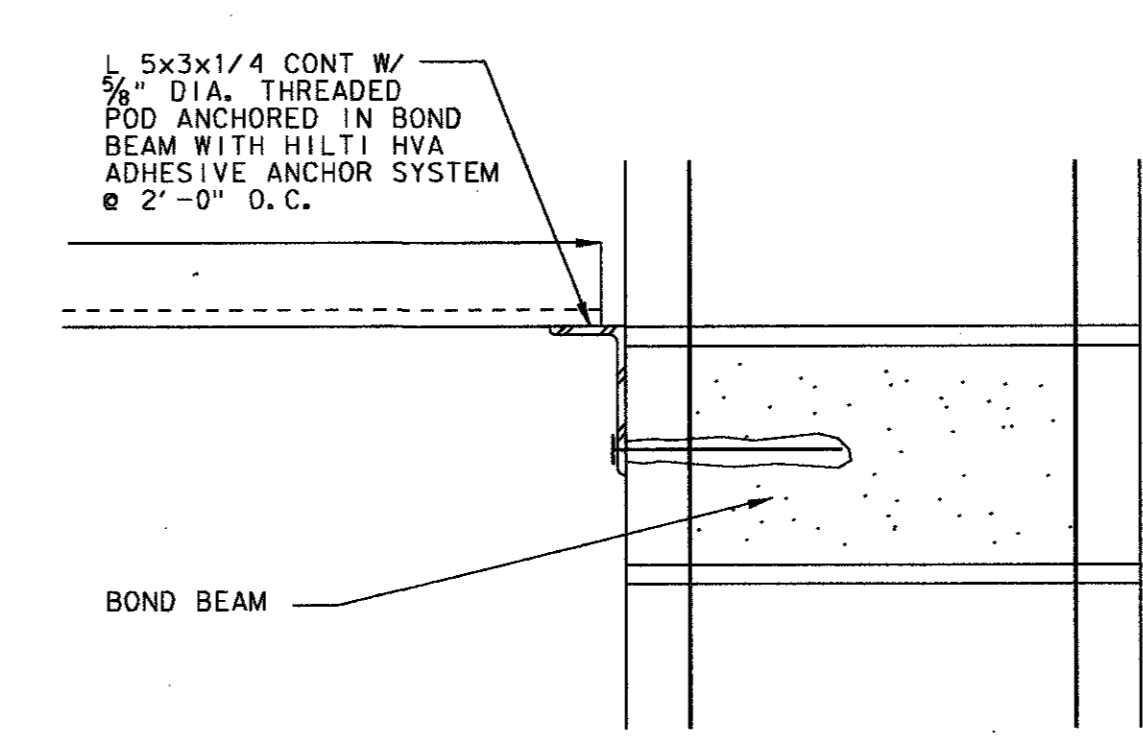
ANCHOR BOLT LAYOUT FOR VENT PIPE D  
1" = 1'-0"



EYE BOLT HANGER E  
3" = 1'-0"



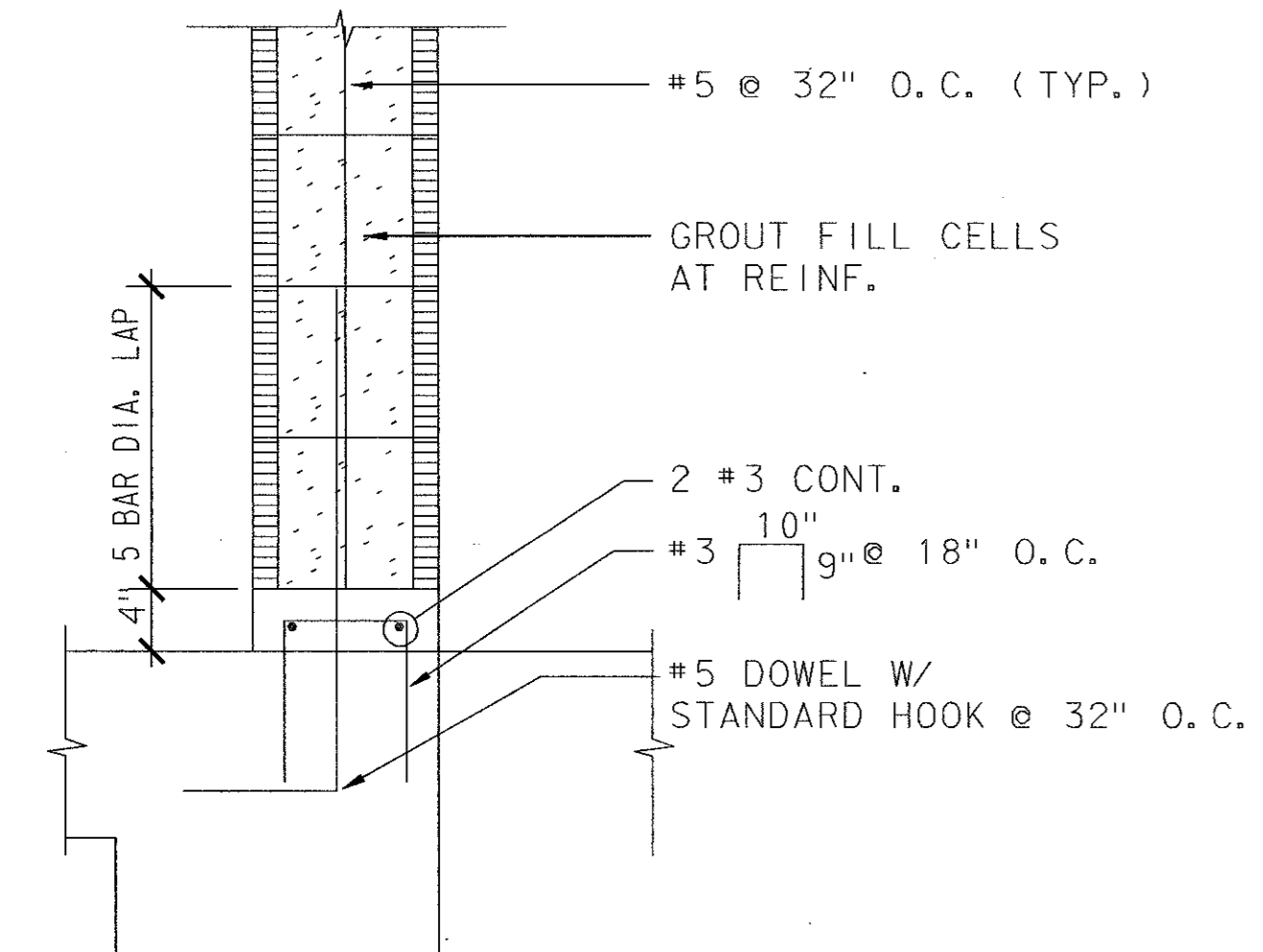
DETAIL AT SLAB BRACKET F  
1/2" = 1'-0"



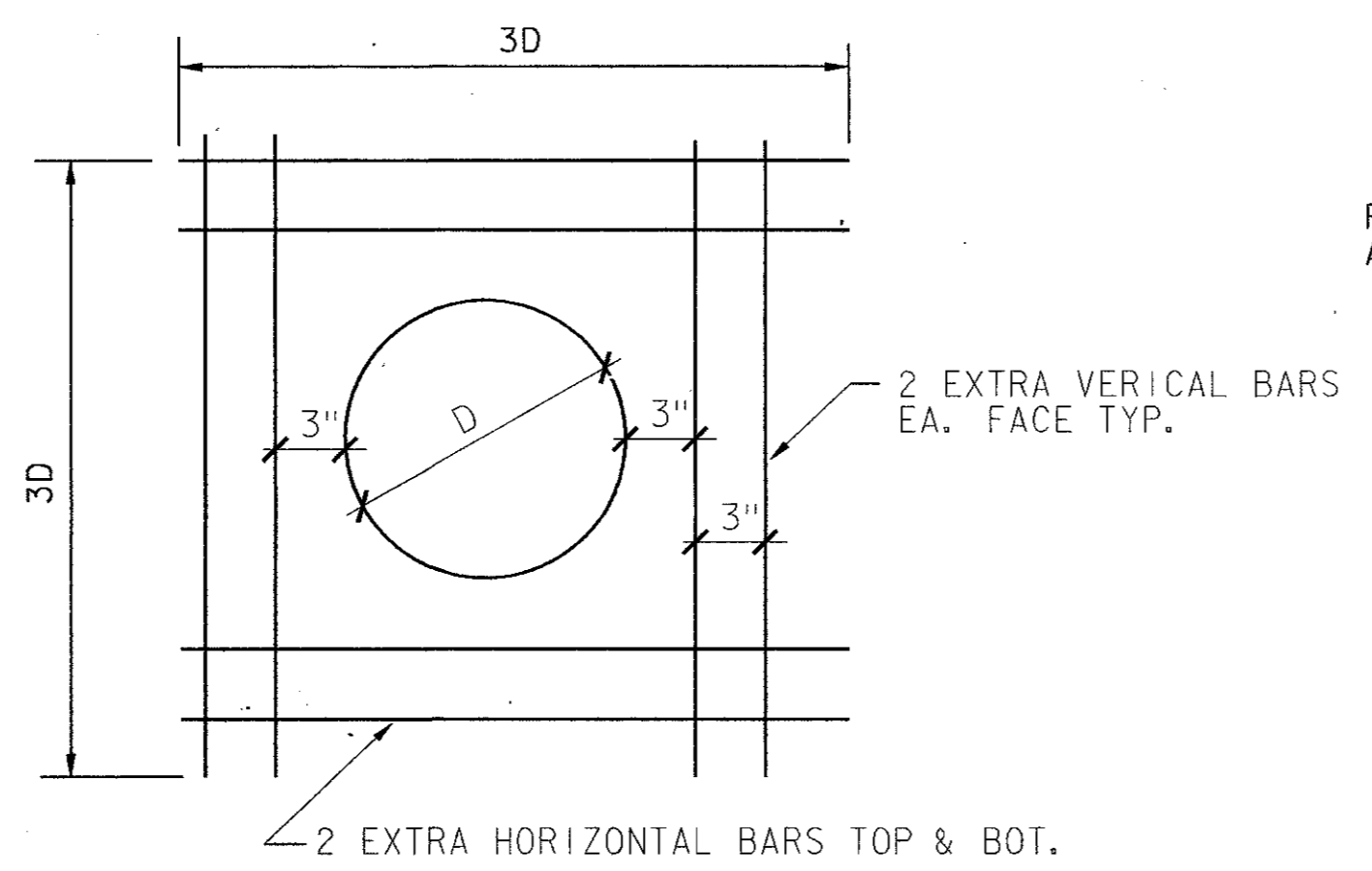
ROOF DECK WALL SUPPORT G  
NTS

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NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b> <b>MIDWAY/BELTLINE SANITARY SEWER</b> <b>PHASE II</b> <b>LIFT STATION - STRUCTURAL</b> <b>BUILDING SECTIONS AND DETAILS</b>			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4951</small>			
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Drawn	C. Sommons	Approved	J. Lindner
		Job No.	93327601D
		Sheet	47 of 63

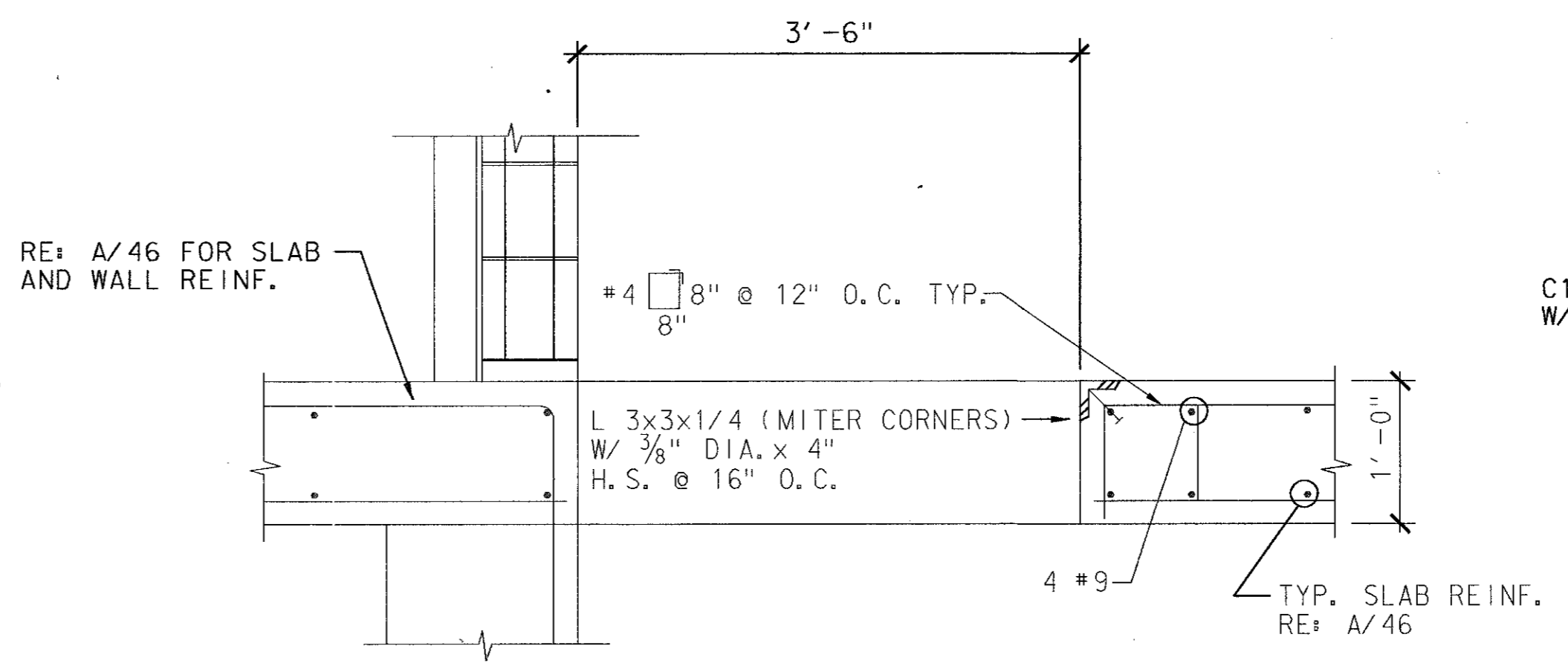




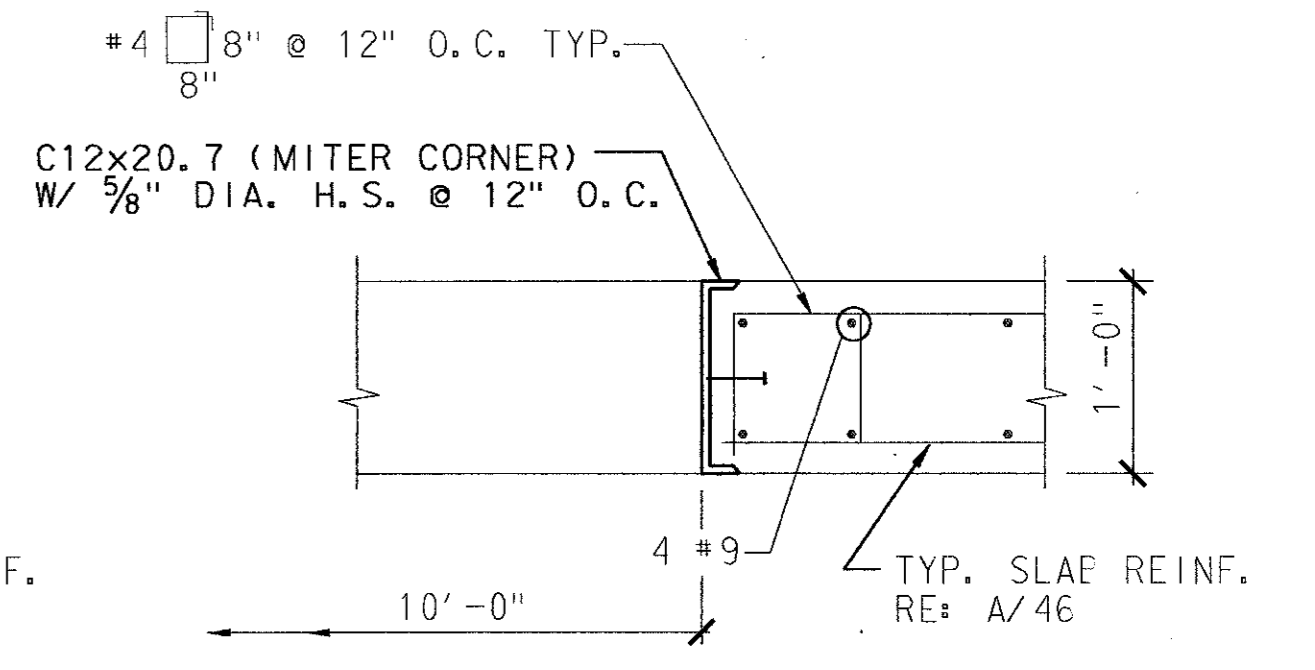
TYPICAL DETAIL **A**  
1" = 1'-0"



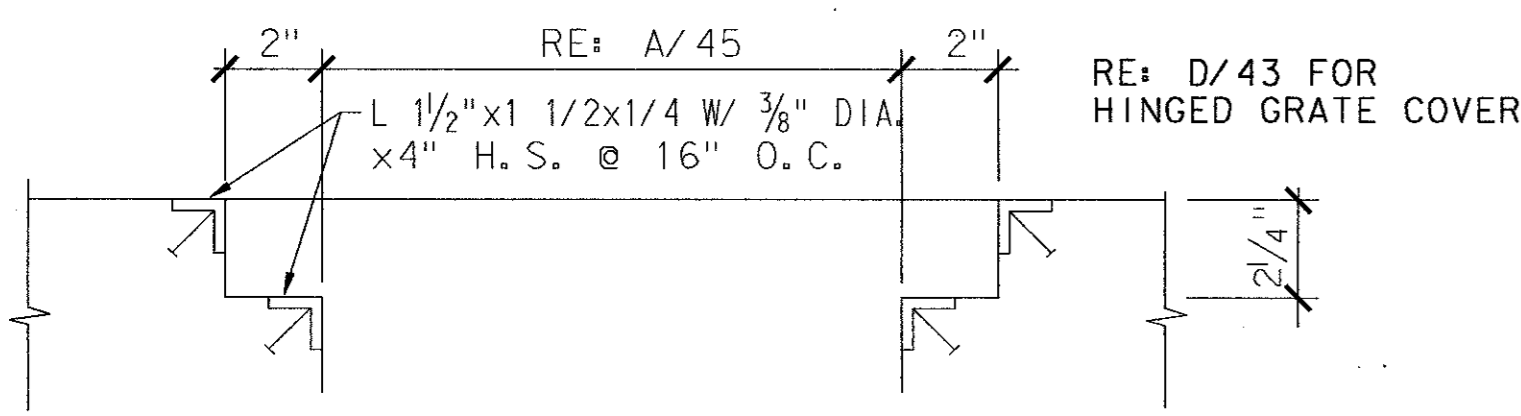
REINFORCEMENT AROUND WALL OPENINGS **B**  
1/2" = 1'-0"



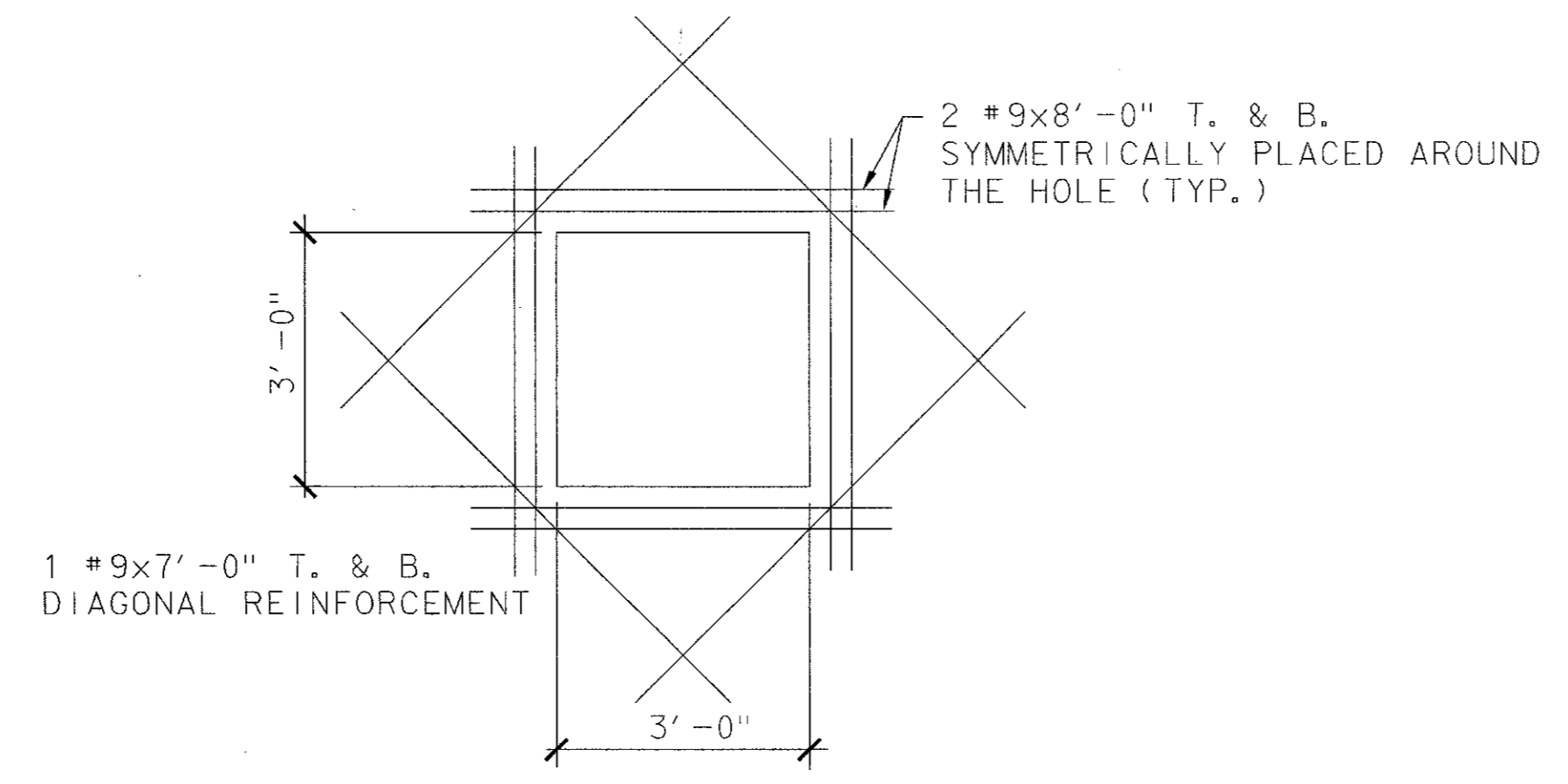
SECTION AT STAIR OPENINGS **C**  
1" = 1'-0"



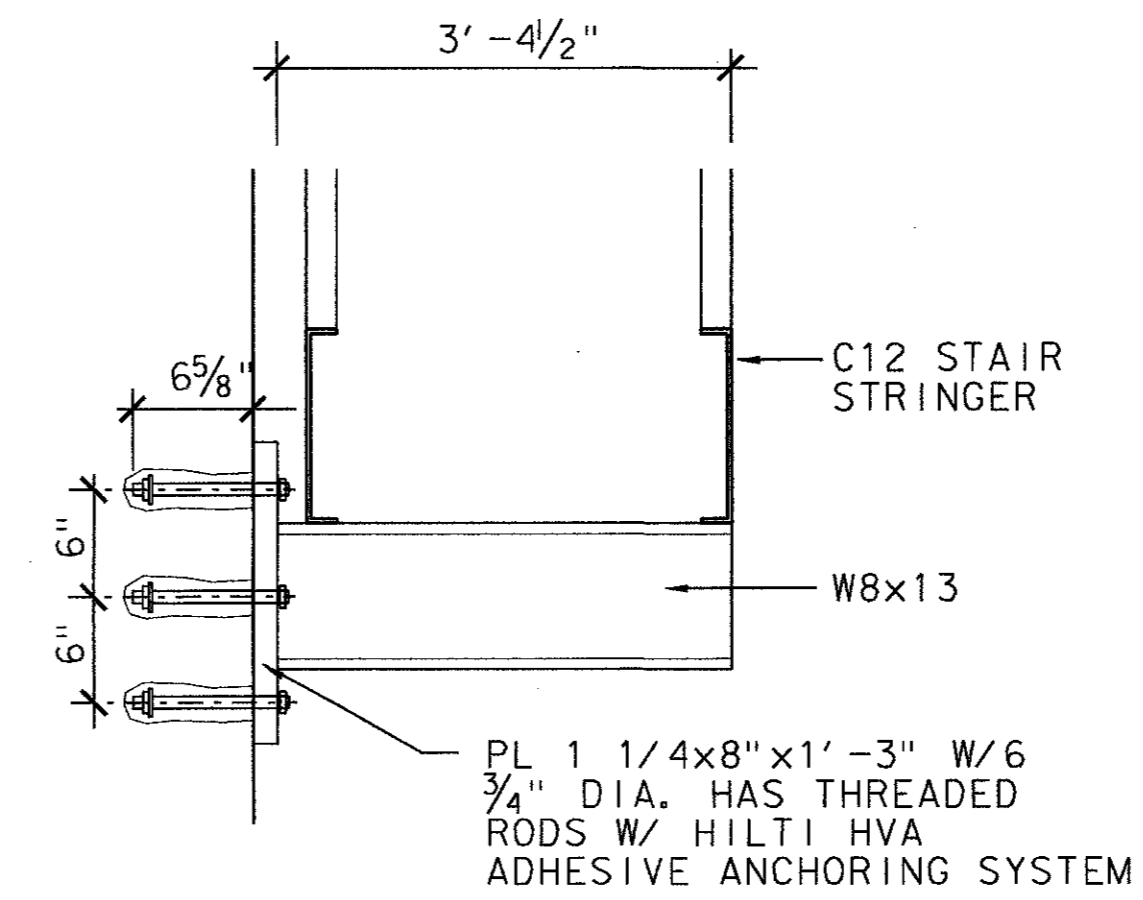
LONG SECTION AT STAIR OPENING **D**  
1" = 1'-0"



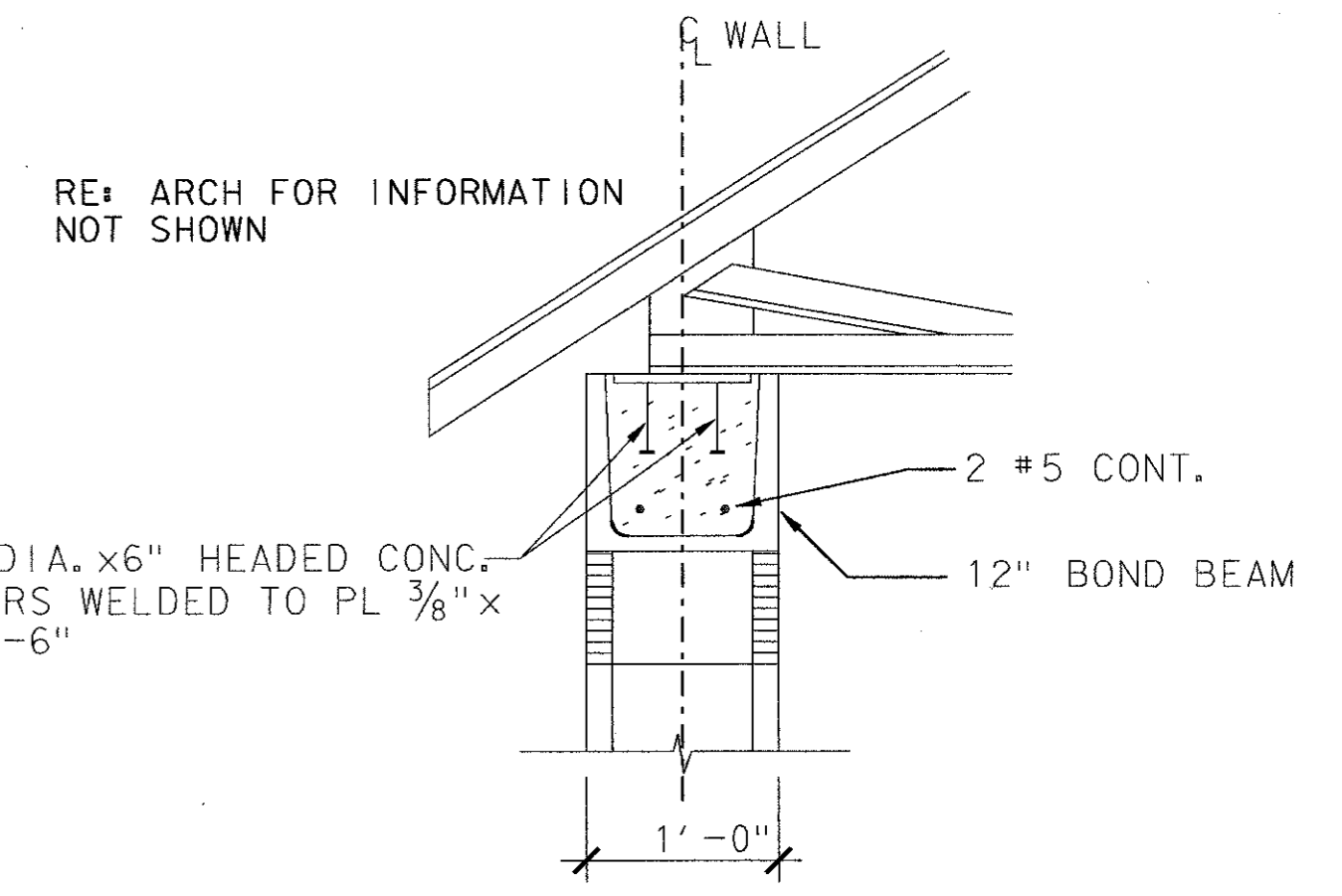
SECTION AT ACCESS HOLE **E**  
1" = 1'-0"



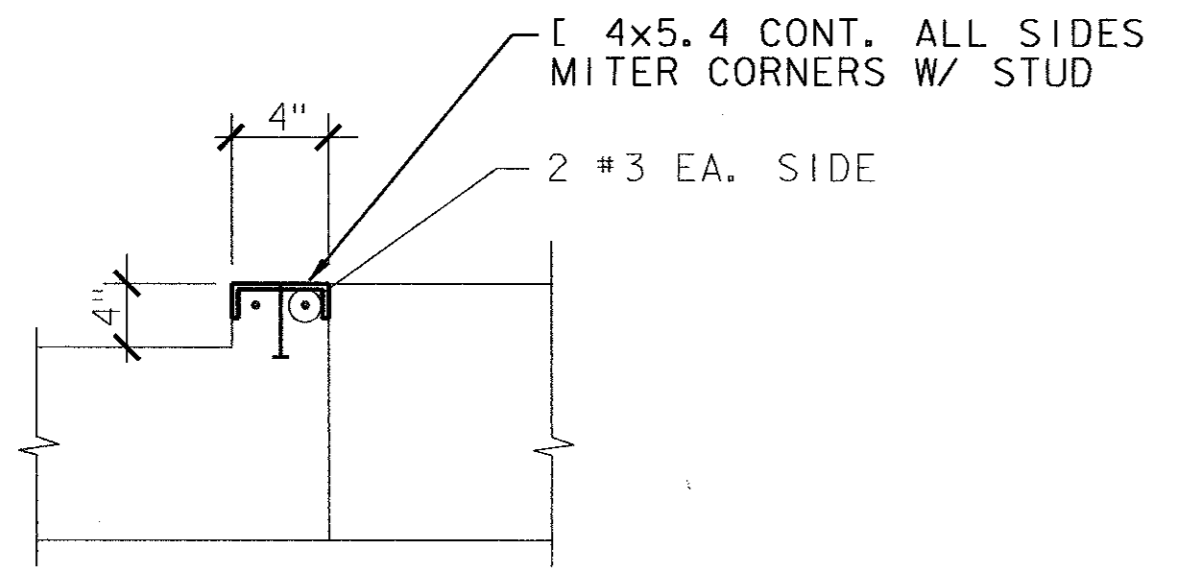
DETAIL - 3'-0" SQ. OPENINGS **F**  
1/2" = 1'-0"



TYPICAL STAIR SUPPORT **G**  
1" = 1'-0"



TRUSS SEAT AT BOND BEAM **H**  
1" = 1'-0"

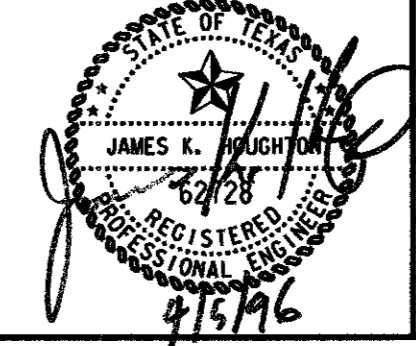


HATCH AND FAN OPENING DETAIL **I**  
1" = 1'-0"

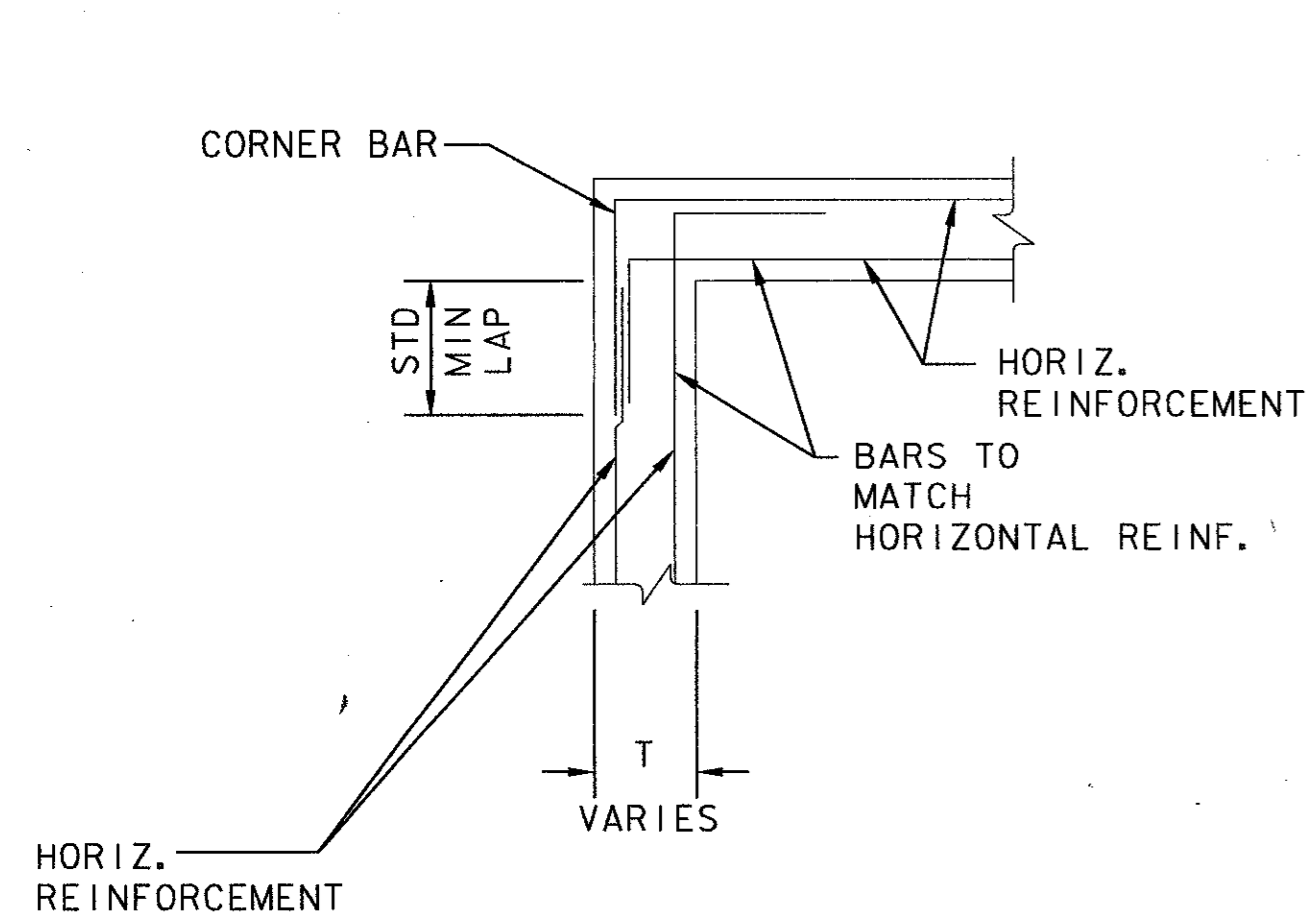
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NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
MIDWAY/BELTLINE SANITARY SEWER  
PHASE II  
LIFT STATION  
STRUCTURAL DETAILS

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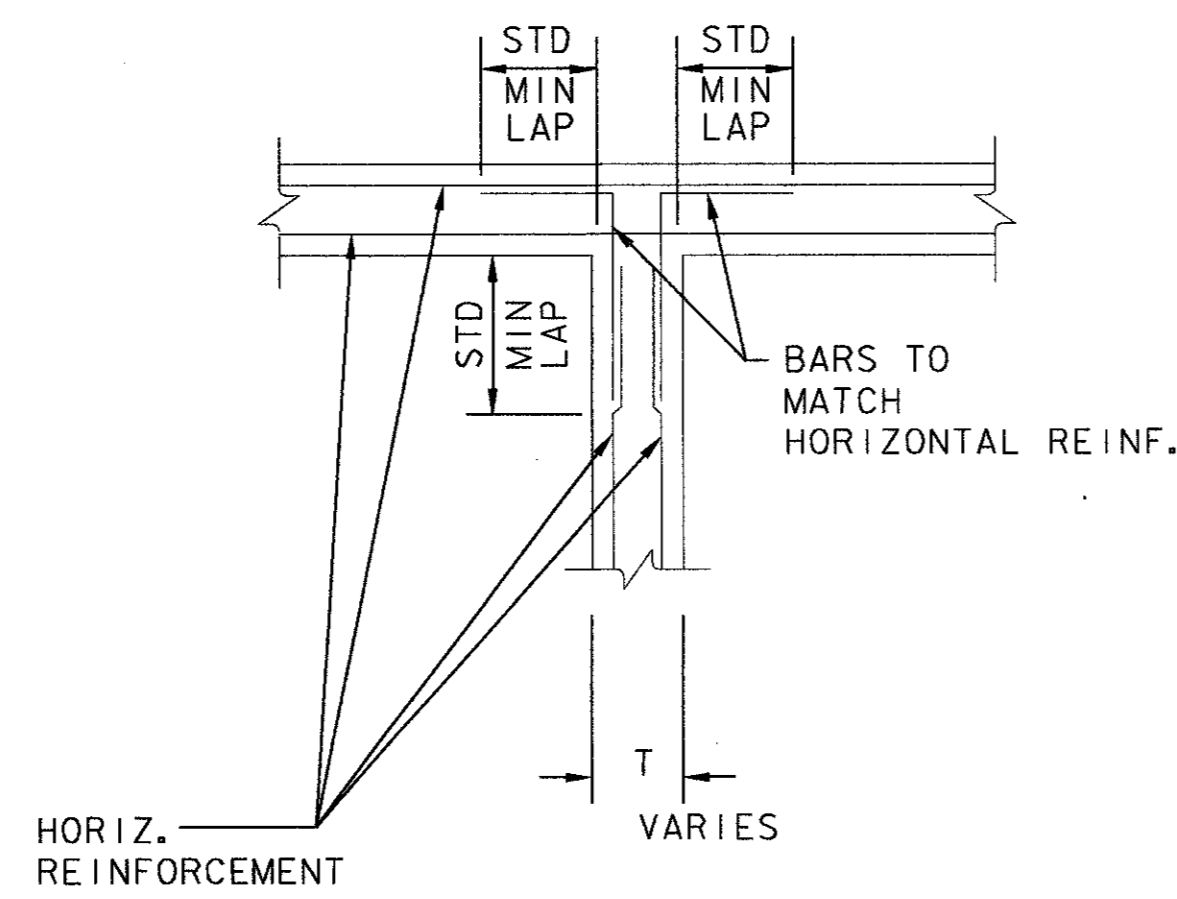


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Job No.	93327601D	Sheet	48 of 63



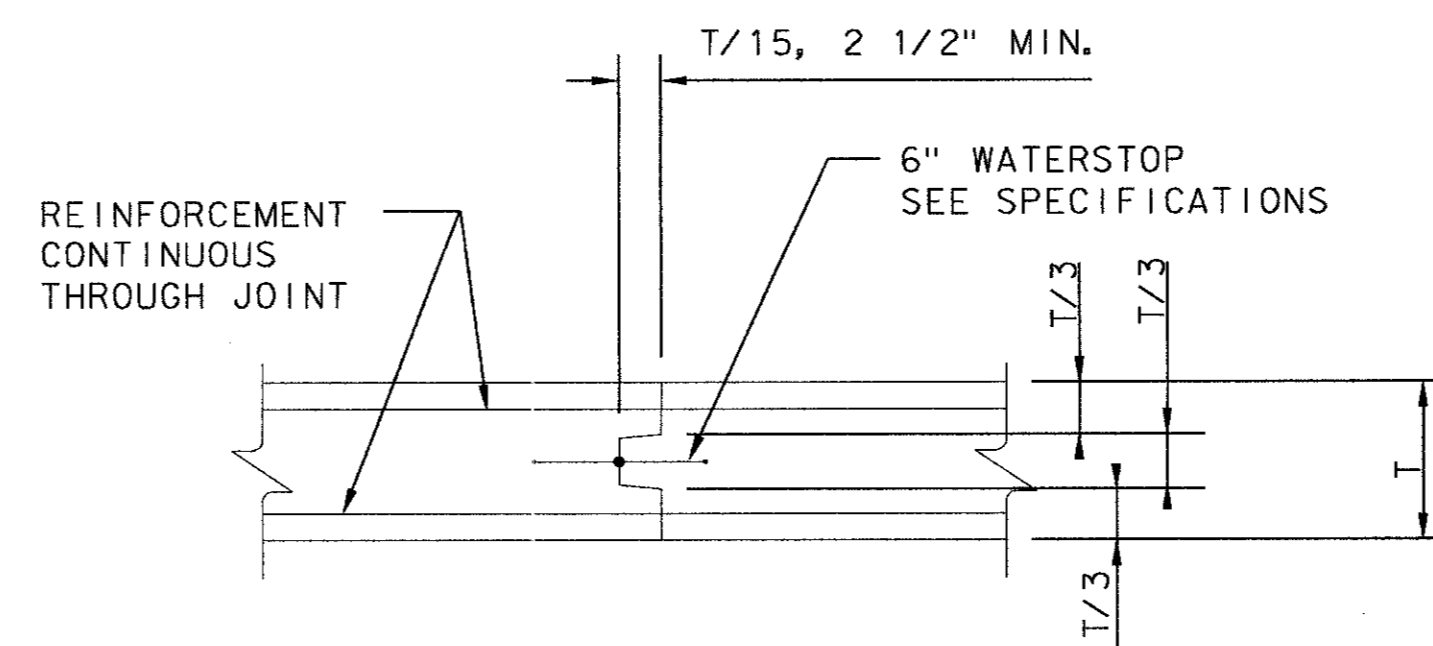
TYPICAL CORNER DETAIL (A)

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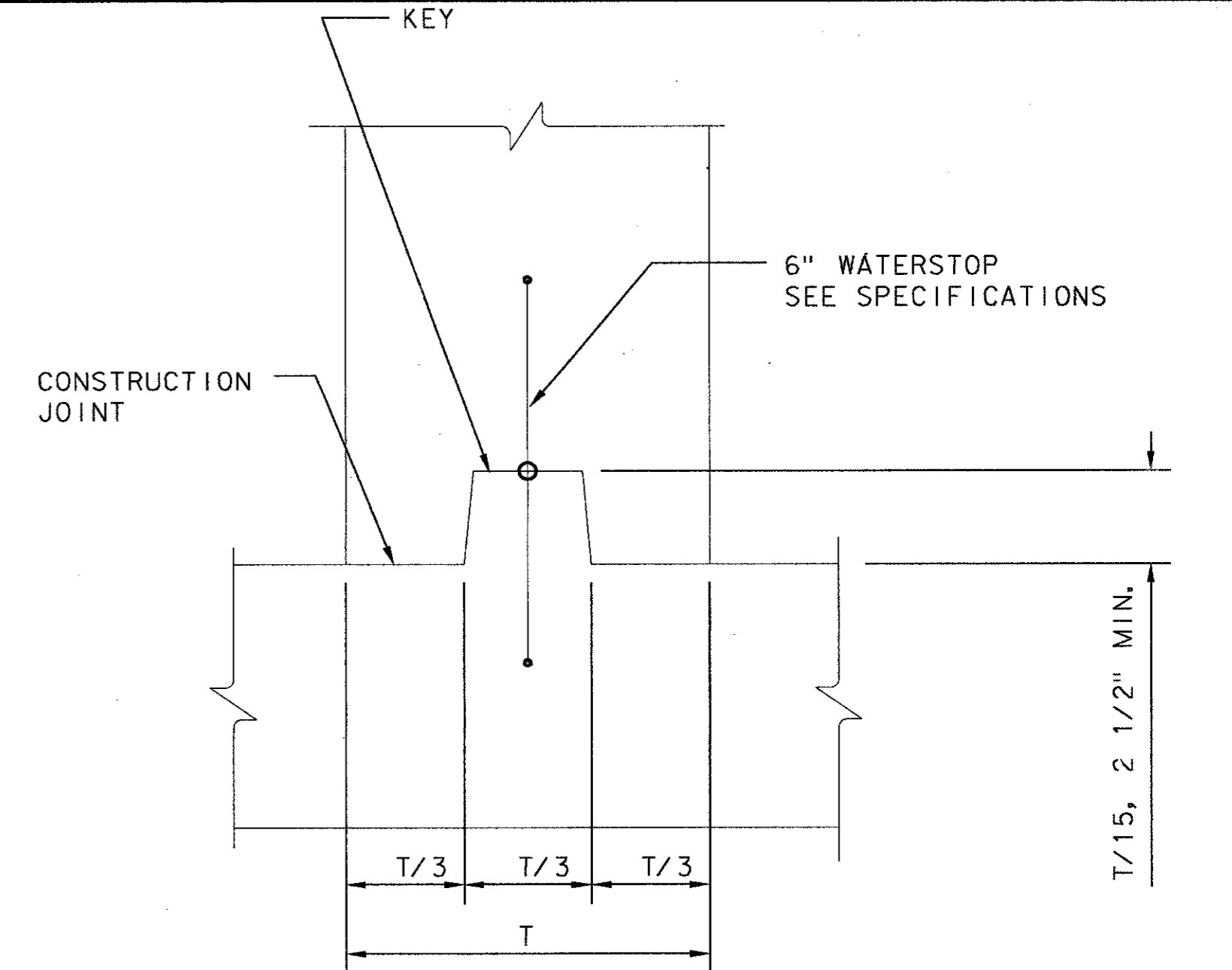
TYPICAL WALL TO WALL DETAIL (B)

NTS



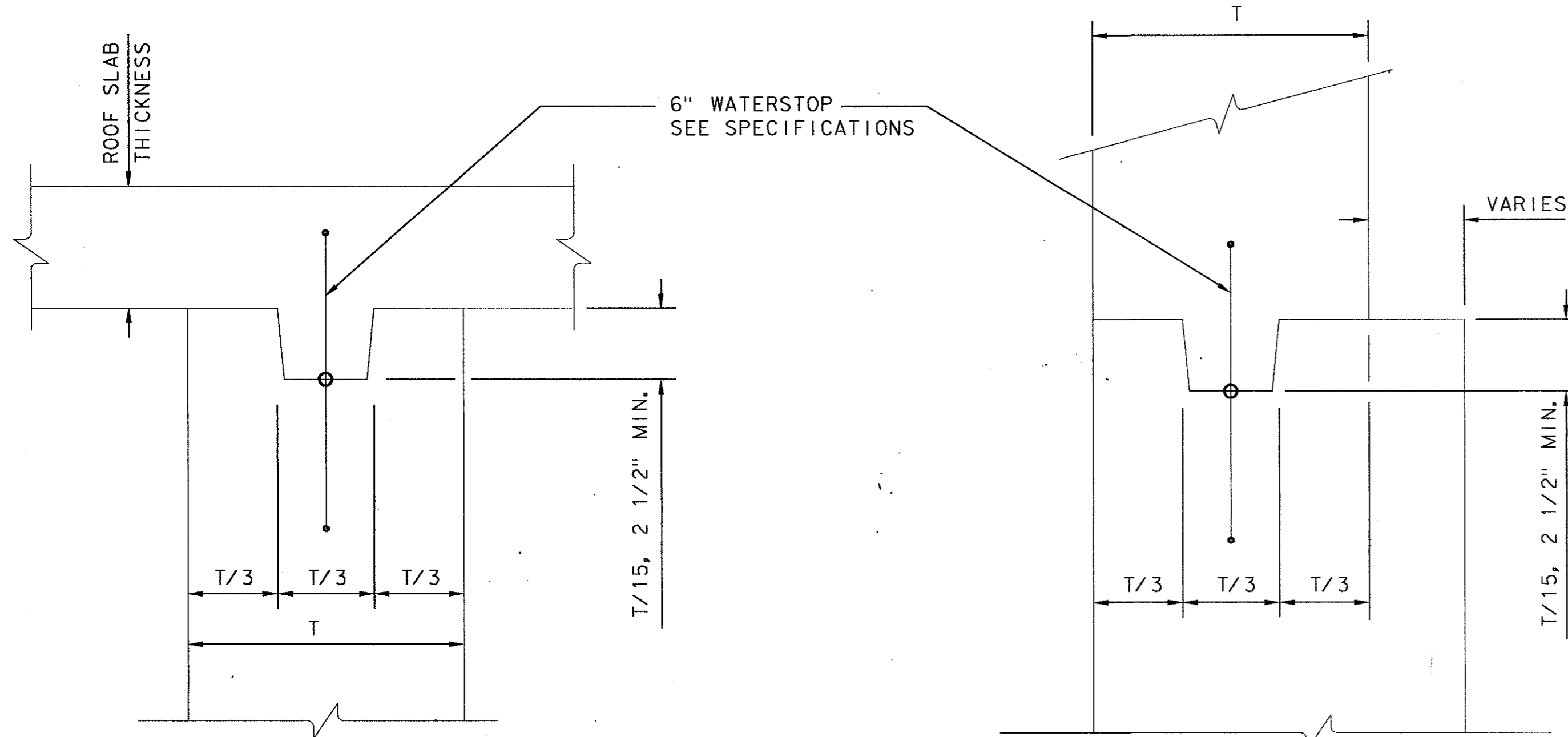
CONSTRUCTION JOINT AT SLAB (C)

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CONSTRUCTION JOINT LOWER SLAB TO WALL (D)

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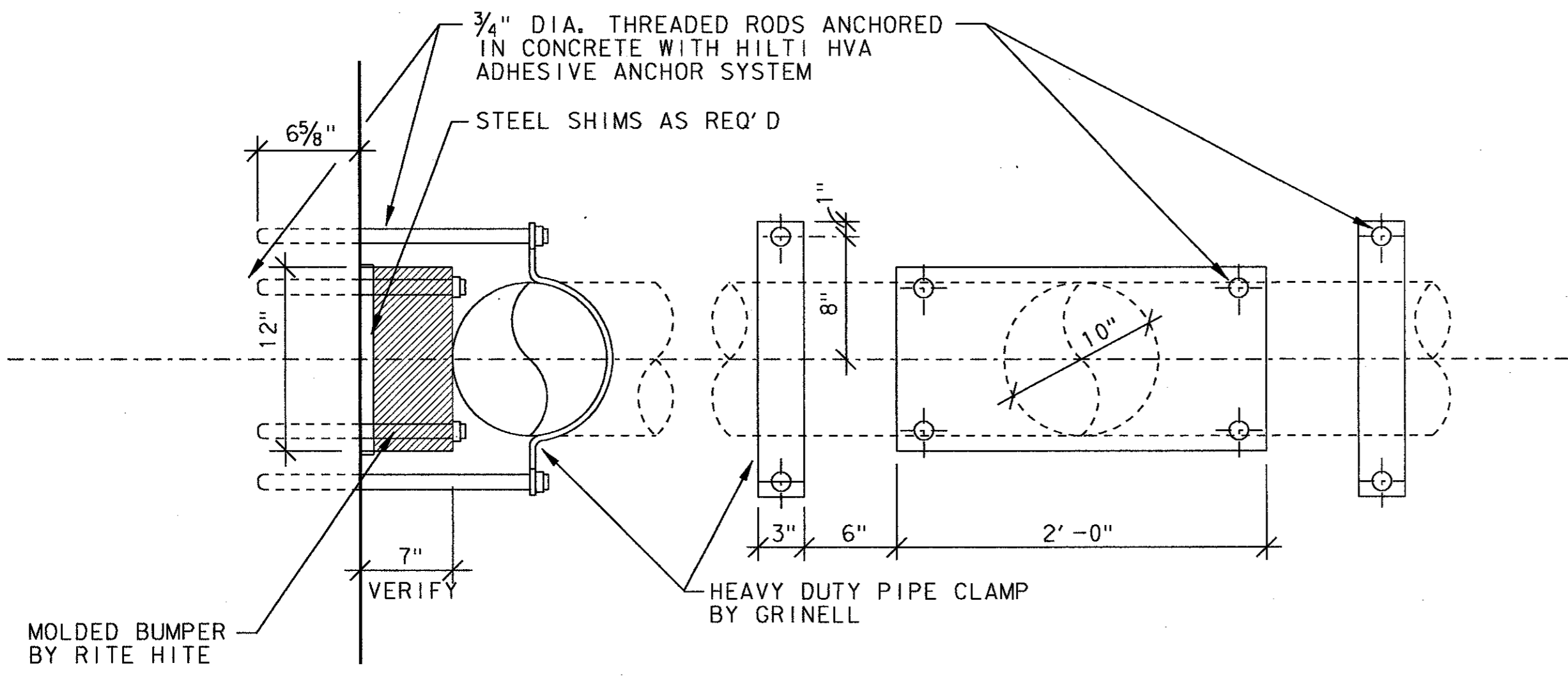


CONSTRUCTION JOINT UPPER SLAB TO WALL (E)

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HORIZ. OR VERT. CONSTRUCTION JOINT AT WALL (F)

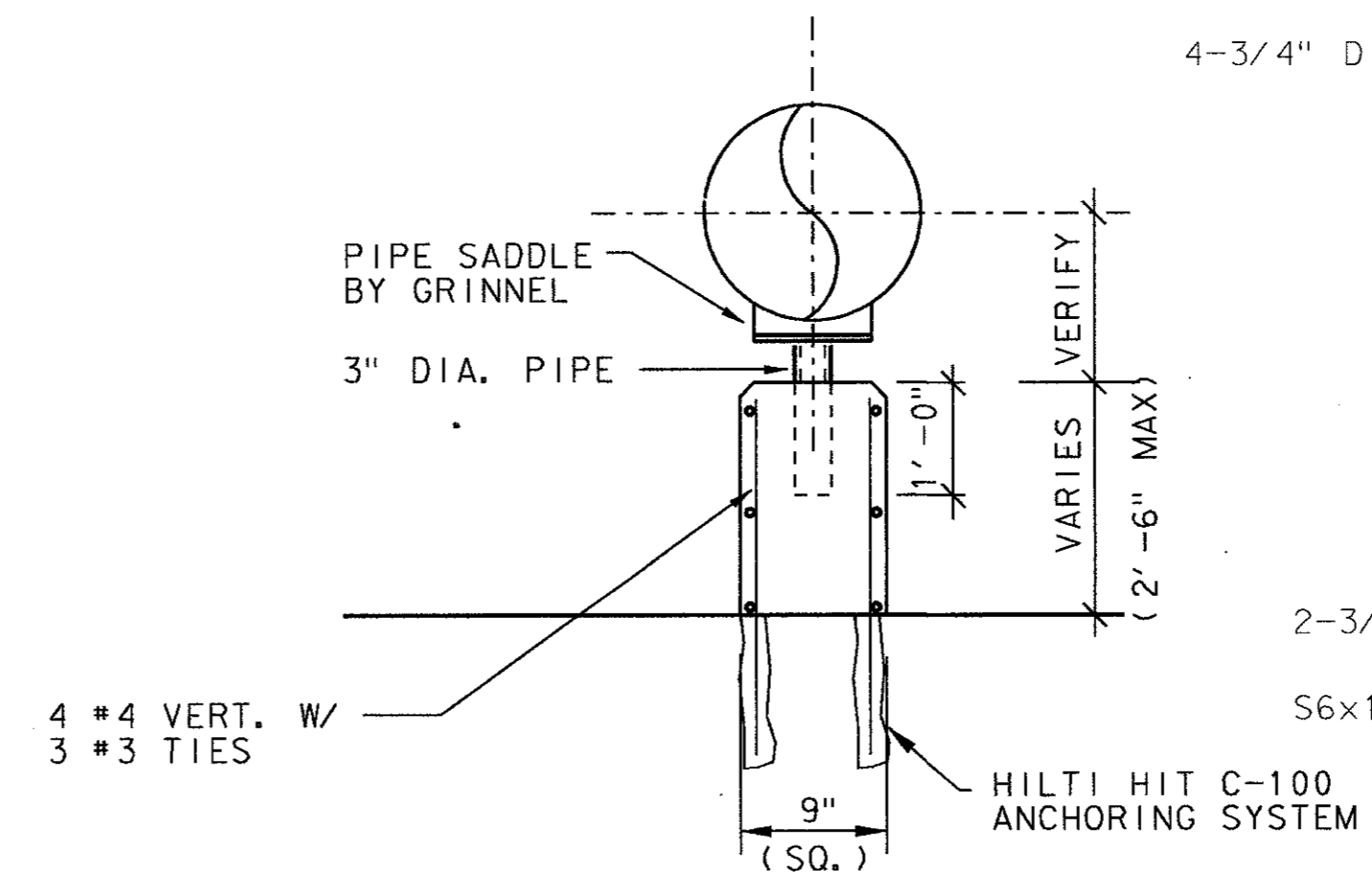
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REF TO MECH DWGS FOR PIPE SIZE AND THRUST BLOCK LOCATIONS

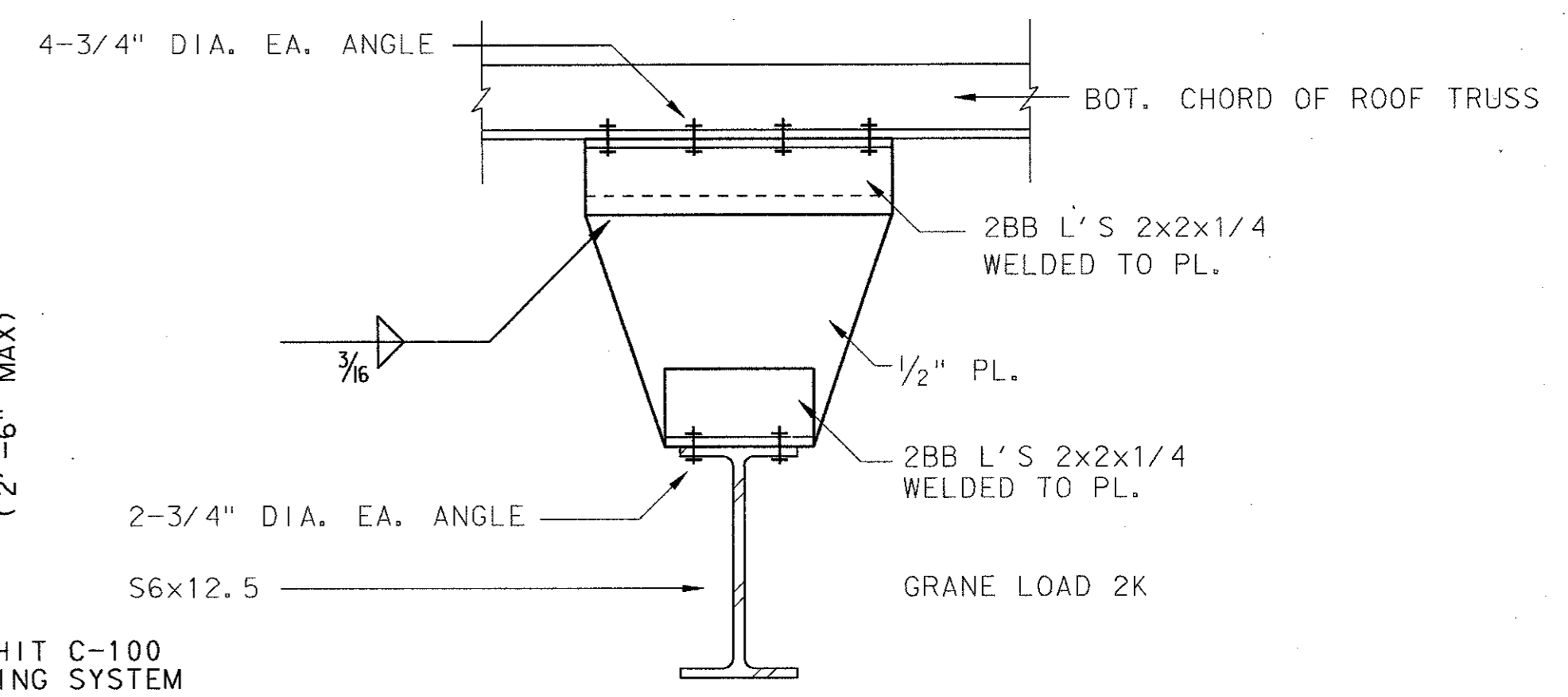
THRUST BLOCK DETAIL (I)

1/2" = 1'-0"



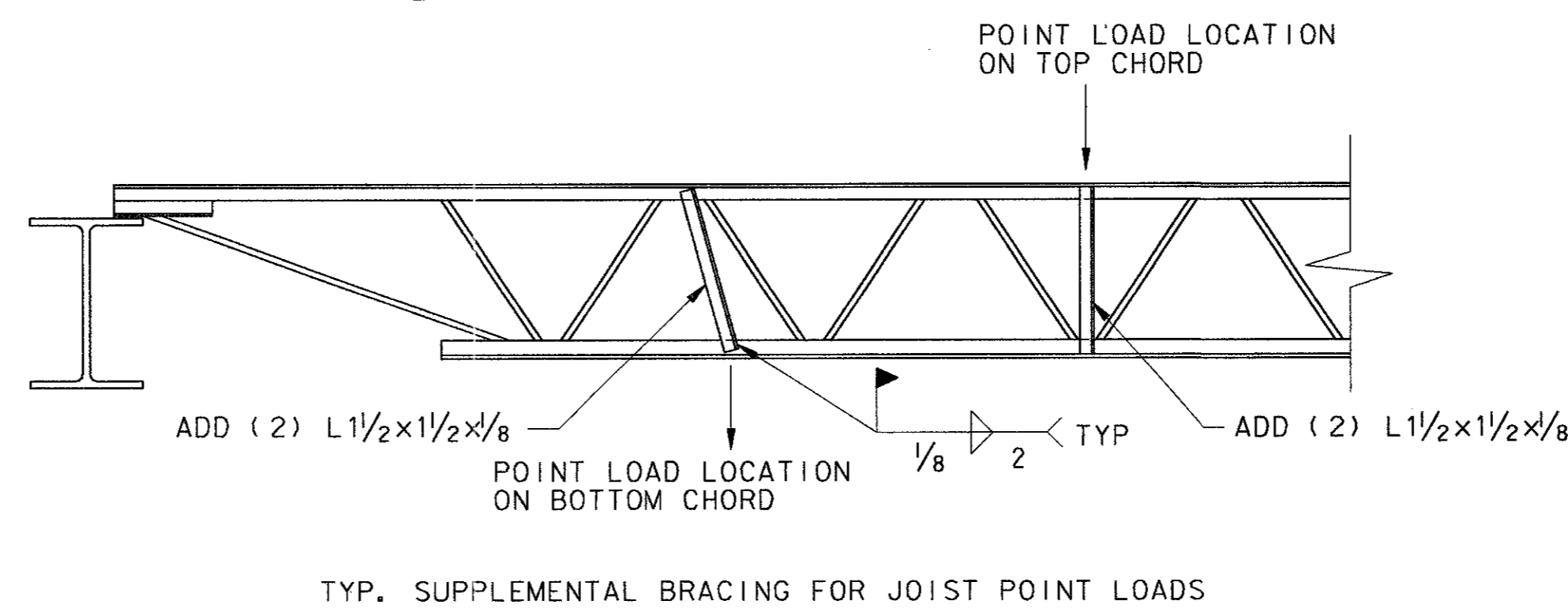
TYPICAL PUMP SUPPORT (G)

1" = 1'-0"



MONORAIL HOIST BEAM HANGER (H)

3" = 1'-0"



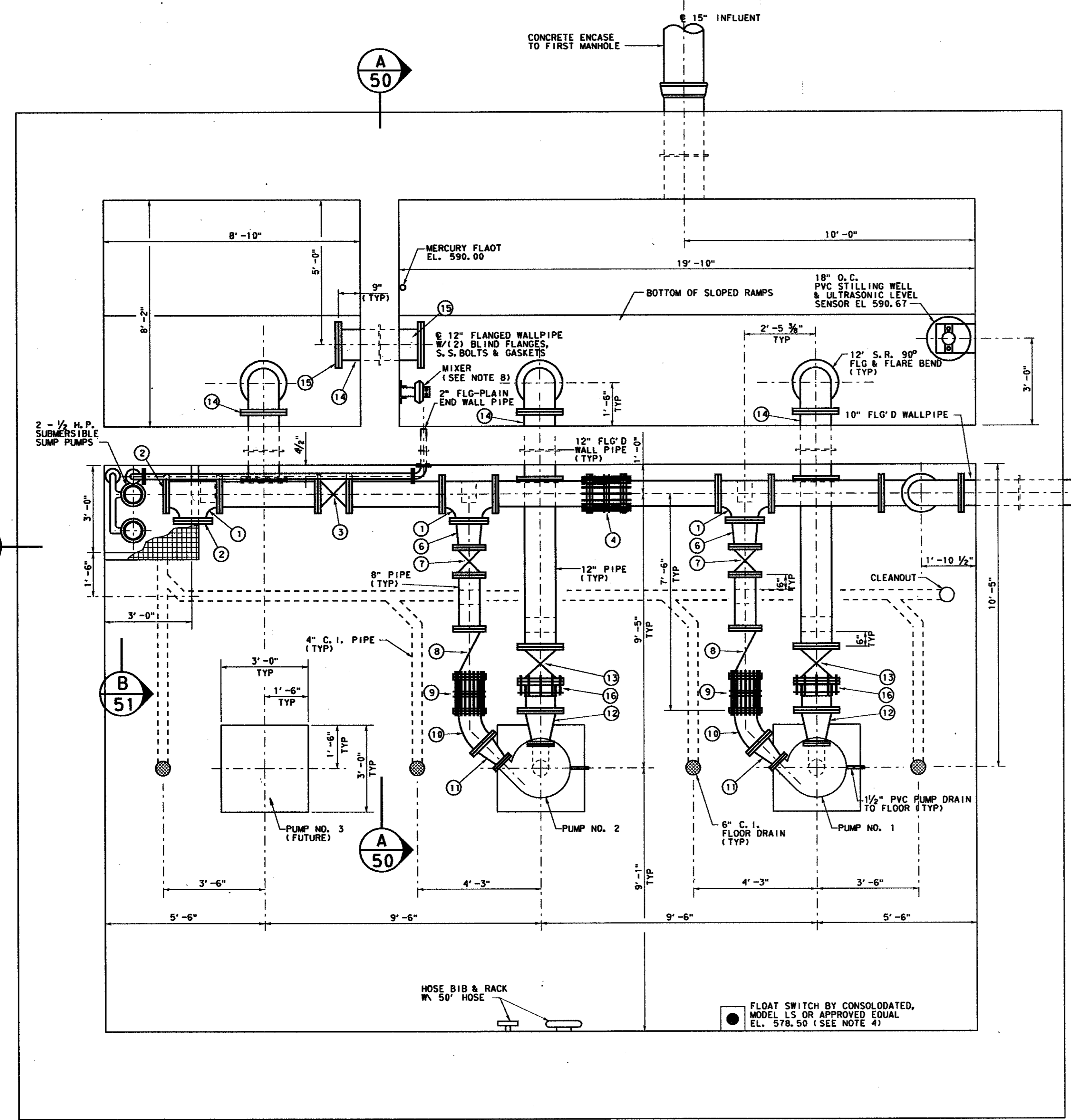
NOTE: USE THIS DETAIL WHEN POINT LOAD EXCEEDS 20 LBS. AND IS 6" OR MORE AWAY FROM PANEL POINT. ANGLES TO BE IN PLACE PRIOR TO APPLICATION OF LOAD. CONTRACTOR SHALL COORDINATE ALL SUPERIMPOSED LOADS WITH THE JOIST MANUFACTURER PRIOR TO JOIST FABRICATION. LOCATIONS OF THESE LOADS SHALL BE ON THE SUBMITTED JOIST SHOP DRAWINGS.

TYP. JOIST CHORD BRACING DETAIL (J)

1" = 1'-0"

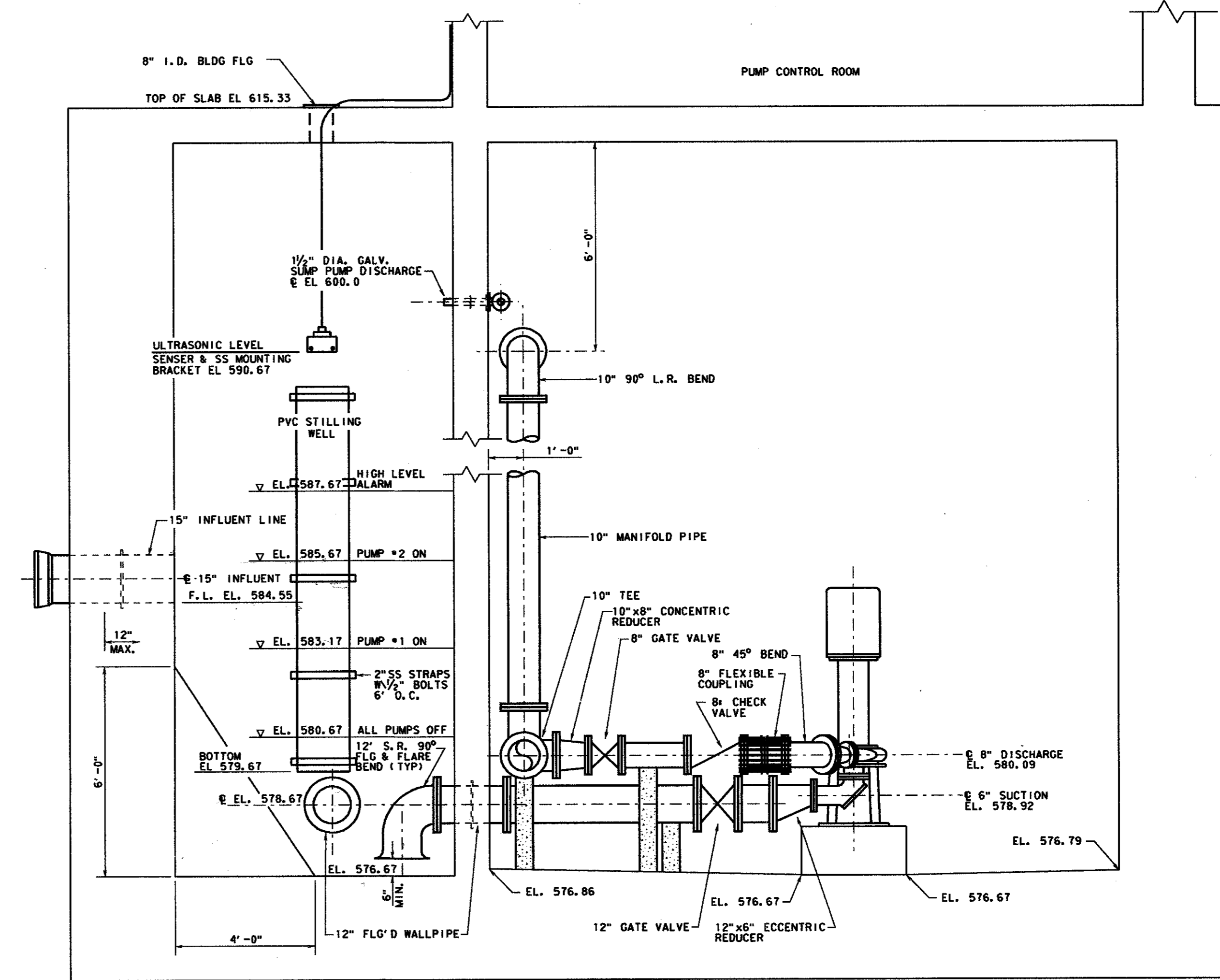
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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER			
PHASE II			
LIFT STATION			
STRUCTURAL DETAILS			
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Job No.	93327601D		
Drawn	C. Sammons	Approved	J. Lindner
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4/5/96



LIFT STATION PLAN - ELEV. 576.67

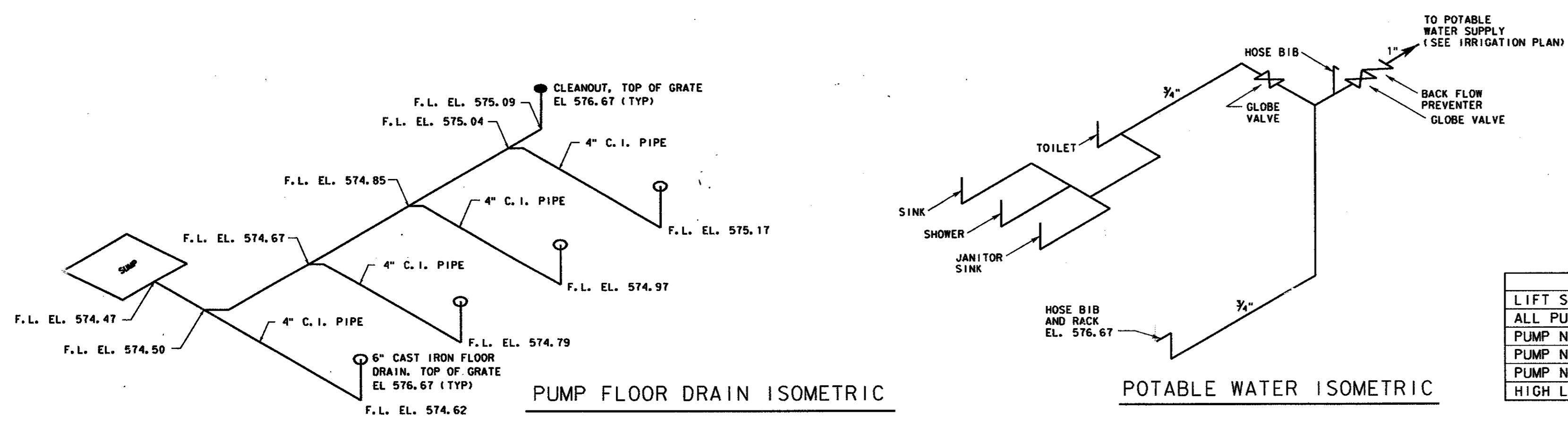
3/8" = 1'-0"



SECTION A 50

3/8" = 1'-0"

ITEM	QUANTITY	SIZE	DESCRIPTION
1	3	10" x 10"	FLANGED TEE
2	2	10"	BLIND FLANGE
3	1	10"	GATE VALVE (SEE NOTE 7)
4	1	10"	FLEX COUPLING W/THRUST RESTRAINT
5	2	10"	90° BEND
6	2	10" x 8"	CONC. REDUCER
7	2	8"	GATE VALVE
8	2	8"	CHECK VALVE (SEE NOTE 5)
9	2	8"	FLEX COUPLING W/THRUST RESTRAINT
10	2	8"	45° BEND
11	2	8" x 5"	CONC. REDUCER
12	2	12" x 6"	CONC. REDUCER
13	2	12"	GATE VALVE (SEE NOTE 7)
14	4	12"	FLANGED WALL PIPE
15	2	12"	BLIND FLANGE
16	2	12"	FLANGED COUPLING ADAPTER



PUMP FLOOR DRAIN ISOMETRIC

POTABLE WATER ISOMETRIC

NOTES:

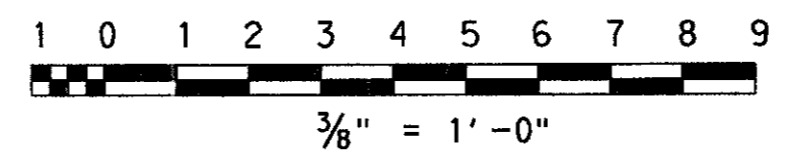
- ALL BOLTS, HARDWARE & ANGLES SHALL BE STAINLESS STEEL.
- CONTRACTOR SHALL INSTALL A BADGER MODEL 2500 ULTRASONIC LEVEL TRANSMITTER, OR APPROVED EQUAL, ONE MERCURY FLOAT SWITCH, FOR PUMP CONTROL AND ALARM SIGNAL ACTIVATION, MERCURY SWITCH SHALL SERVE AS A BACKUP TO ULTRASONIC AND SHALL ACTIVATE ALARM AND START ONE PUMP.
- FLOOR DRAIN SHALL BE 6" CAST IRON WITH GRATE TYLER MODEL 314, OR APPROVED EQUAL.
- DRY WELL WATER LEVEL FLOAT SWITCH SHALL ACTIVATE ALARM.
- CHECK VALVE SHALL BE CUSHIONED TYPE GOLDEN ANDERSON MODEL G.A. FIGURE 250-D OR APPROVED EQUAL.
- THRUST RESTRAINTS SHALL BE RATED AT 200 PSI.
- ALL GATE VALVES SHALL BE RESILIENT SLATED.
- MIXER SHALL BE FLYGT SERIES 4600 RATED AT 2.5 H.P., 460 V WITH STAINLESS STEEL LIFTING CHAIN AND HARDWARE.

MIXER SETTINGS

MIXER OFF	581.00
MIXER ON	582.00

PUMP LEVEL SETTINGS

	INITIAL	ULTIMATE
LIFT STATION CAPACITY	1.0 MGD	3.0 MGD
ALL PUMPS OFF	580.67	580.67
PUMP NO. 1 ON	583.17	583.17
PUMP NO. 2 ON	585.67	585.67
PUMP NO. 3 ON	N/A	587.17
HIGH LEVEL ALARM	587.67	588.67



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NO.	DATE	REVISION	APPROV.

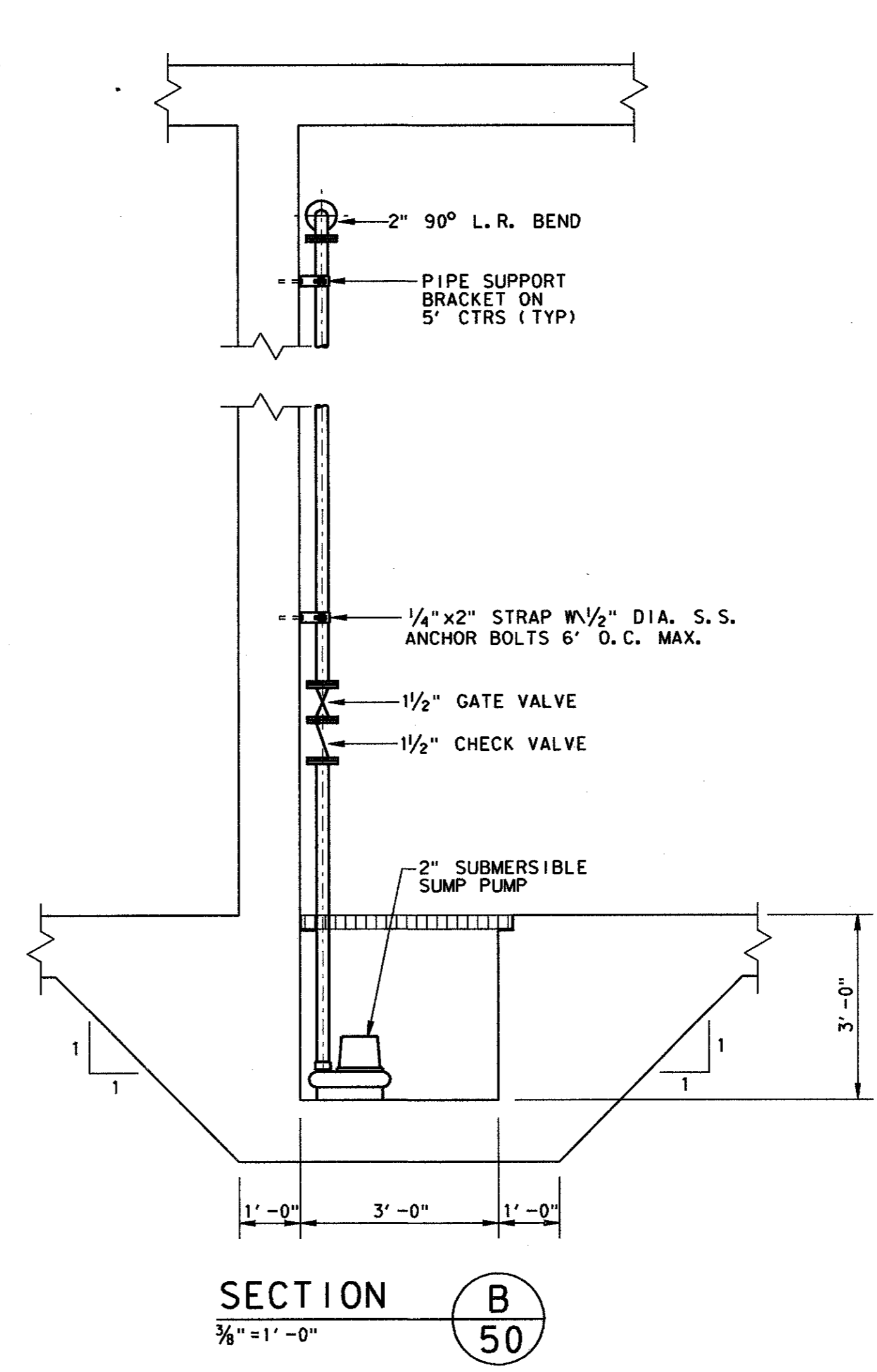
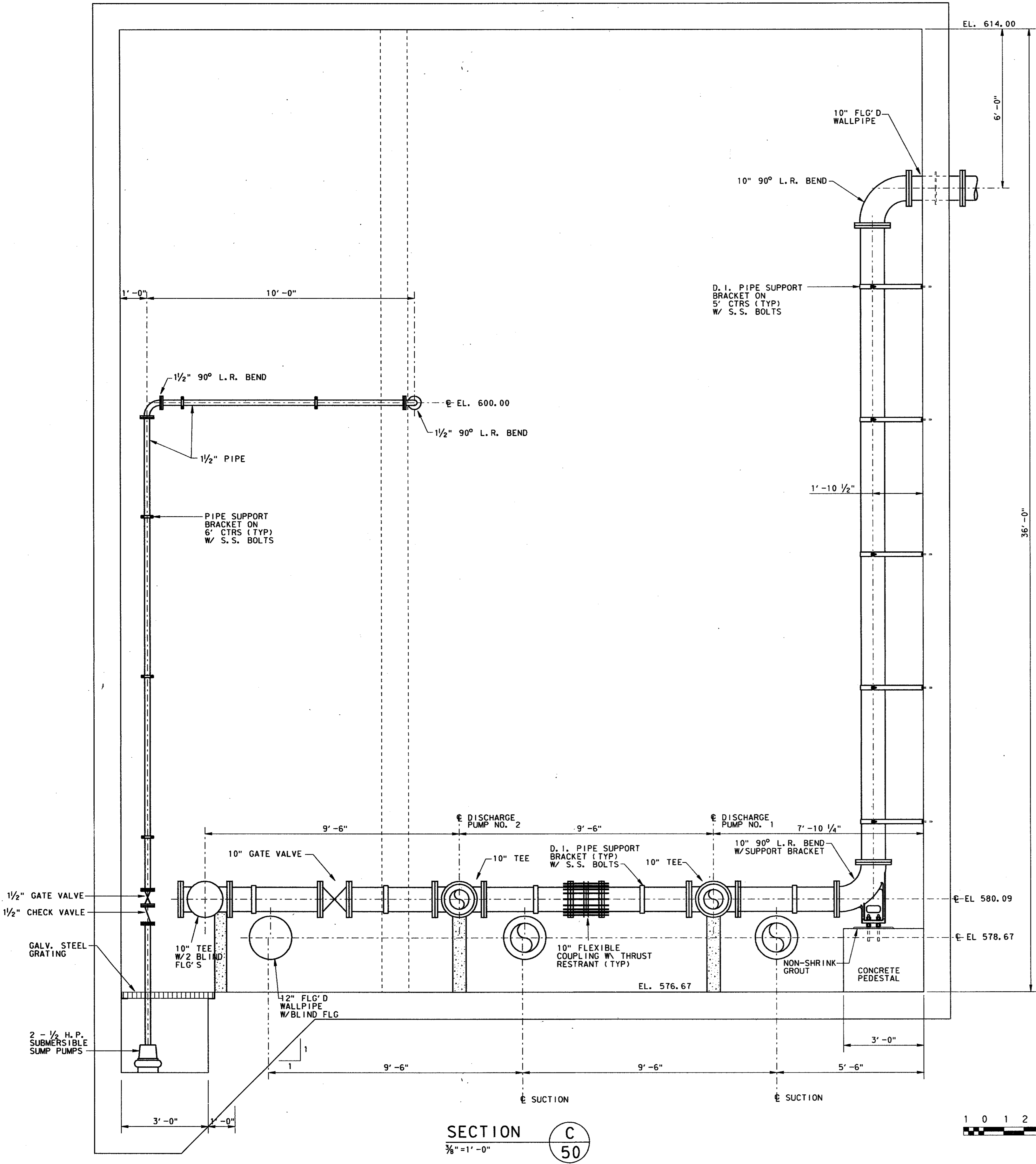
TOWN OF ADDISON, TEXAS  
MIDWAY/BELTLINE SANITARY SEWER  
PHASE II

LIFT STATION  
MECHANICAL PLAN & SECTIONS

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DALLAS, TX 75247-4961

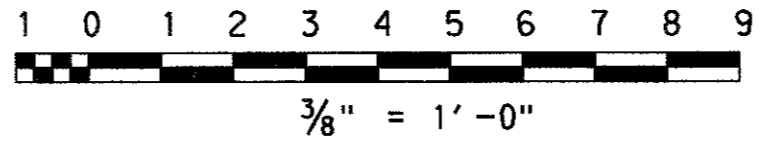
UNIT: \_\_\_\_\_ Scale: 3/8" = 1' Date: 04-05-96  
Designed: J. Lindner Checked: J. Lindner Job No.: 93327601D  
Drawn: R. Howman Approved: J. Lindner Sheet: 50 of 63

ENGINEER  
 ARCHITECT  
 PLANNING AND ENVIRONMENTAL  
 CONSULTANTS  
 REGISTERED PROFESSIONAL ENGINEERS  
 STATE OF TEXAS  
 JOHN H. LINDNER  
 64694  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF TEXAS  
 415196



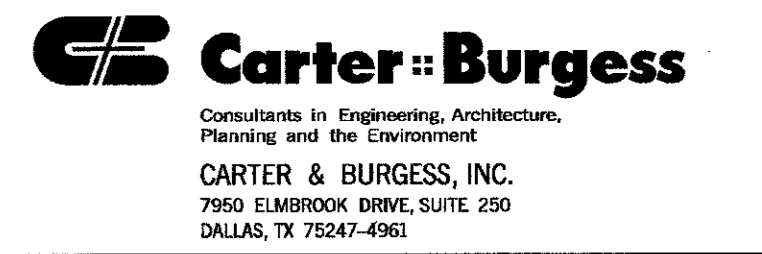
SECTION C  
3/8" = 1'-0"

SECTION B  
3/8" = 1'-0"

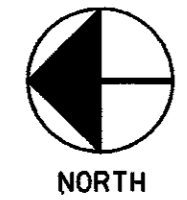
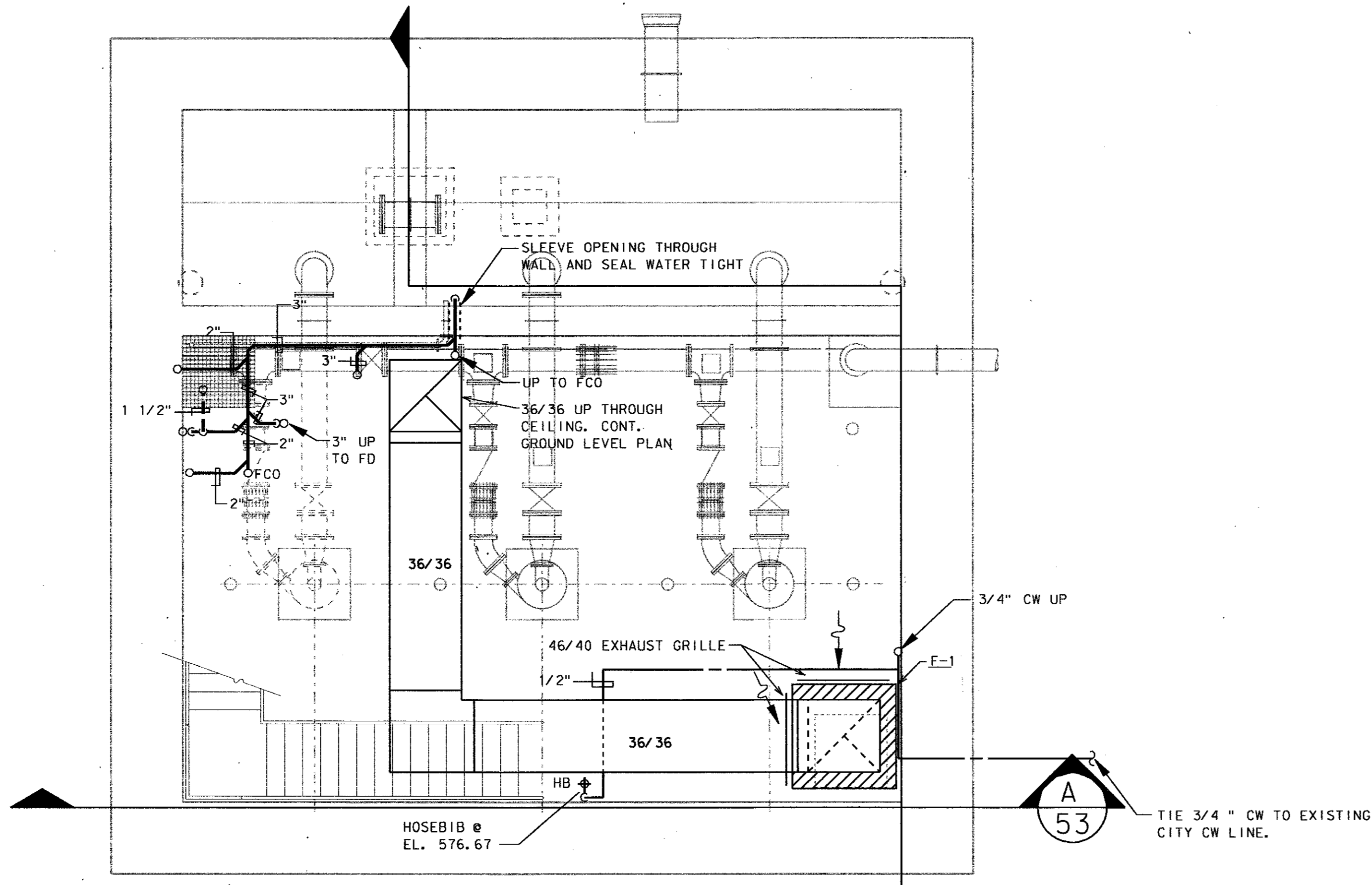


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NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LIFT STATION  
 MECHANICAL PLAN SECTIONS



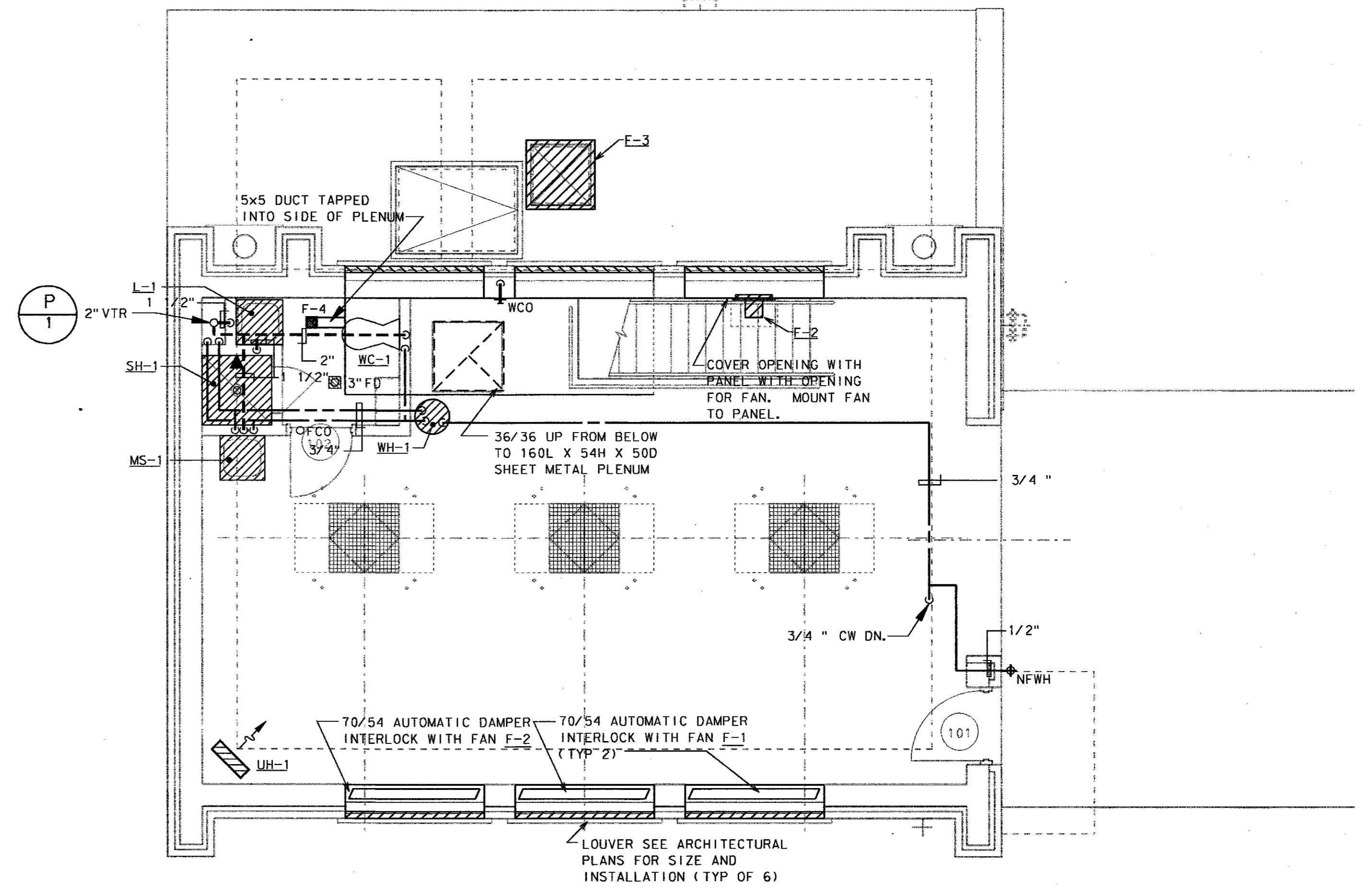
Unit	Scale	3/8" = 1'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No. 933276010
Drawn	R. Howman	Approved	J. Lindner	Sheet 51 of 63



LOWER LEVEL FLOOR PLAN

1/4" = 1'-0"

A 52



GROUND LEVEL FLOOR PLAN

1/4" = 1'-0"

B 52

GENERAL NOTES

FAN SCHEDULE

MARK	F-1	F-2	F-3	F-4
SERVICE	PUMP RM.	CONTROL RM.	WET PIT	TOILET RM.
TOTAL AIR (CFM)	14,385	1,480	760	100
EXTERNAL STATIC PRESS. (IN. W.G.)	0.75	0.13	0.13	0.15
UNIT TYPE	INLINE	PROP.	ROOF EXH.	CLG. EXH.
DRIVE TYPE	BELT	BELT	BELT	DIRECT
ACCEPTABLE Lw(A) (db)	-	-	-	-
FAN (HP)	7.5	1/6	1/6	0.5 WATTS
VOLTAGE/PHASE	480/3	115/1	115/1	115/1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	BSQ-360	SDE-16-24-B	RSF-90	SP-108
NOTES	1,6	2,6	3,4,6	5

**REMARKS**

1. EXTERNAL STATIC PRESSURE CONSISTS OF DUCTWORK, AIR DEVICES, FILTERS.

**NOTES**

1. DAMPERS INTERLOCKED WITH LIGHT SWITCH TO BE ON WHEN SWITCH IS TURNED ON. WHEN DAMPER FULLY OPEN, START FAN. BOTH DAMPERS MUST BE FULLY OPEN FOR FAN TO OPERATE. SEQUENCE OPERATES IN REVERSE WHEN LIGHT SWITCH "OFF".

2. UPON RISE IN TEMPERATURE ABOVE THERMOSTAT SETPOINT 60°F (ADJ.) DAMPER OPENS. ON FAN ON SEQUENCE OPERATES IN REVERSE WHEN TEMPERATURE FALLS BELOW SETPOINT.

3. PROVIDE BIRDSCREEN, NO FILTER.

4. FAN IS CONTINUOUS RUN.

5. FAN INTERLOCKED WITH LIGHT SWITCH TO BE ON WHEN SWITCH IS TURNED ON.

6. CORROSION PROOF CONSTRUCTION.

WATER HEATER (ELECTRIC) SCHEDULE

MARK	EWH-1
SERVICE	TOILET RM.
RECOVERY @ 100°F RISE (GPH)	18.4
STORAGE CAPACITY (GAL)	40
TEMPERATURE IN/OUT (°F)	55/110
ELECTRIC INPUT (KW)	4.5
VOLTAGE/PHASE	208/1
MANUFACTURER	LOCHINVAR
MODEL NUMBER	RTJ-040-K
NOTES	
REMARKS	

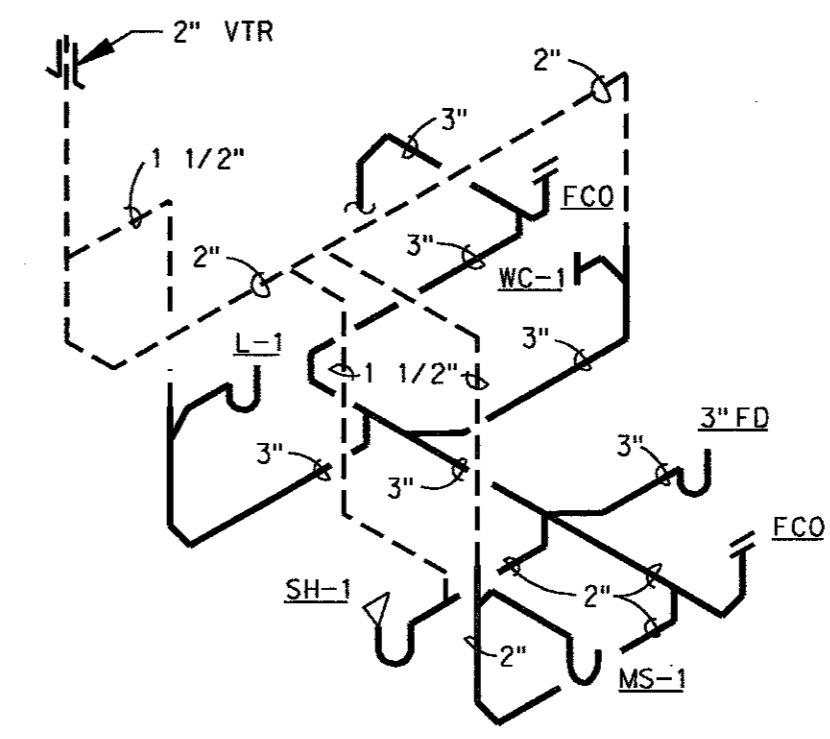
**NOTES**

UNIT HEATER (ELECTRIC) SCHEDULE

MARK	UH-1
TYPE	VERTICAL
CFM	1,300
THROW (FEET)	40
MOUNTING HEIGHT (FEET)	12
MINIMUM CAPACITY (BTUH)	68,300
ELECTRIC INPUT (KW)	15
FAN HP	1/10
VOLTAGE/PHASE	480/3
MANUFACTURER	TRANE
MODEL NUMBER	UHEC-203
NOTES	1
REMARKS	

**NOTES**

1. UNIT MOUNTED THERMOSTAT AT 50°F (ADJ.).



P 1

SANITARY RISER DIAGRAM

SCALE: NONE

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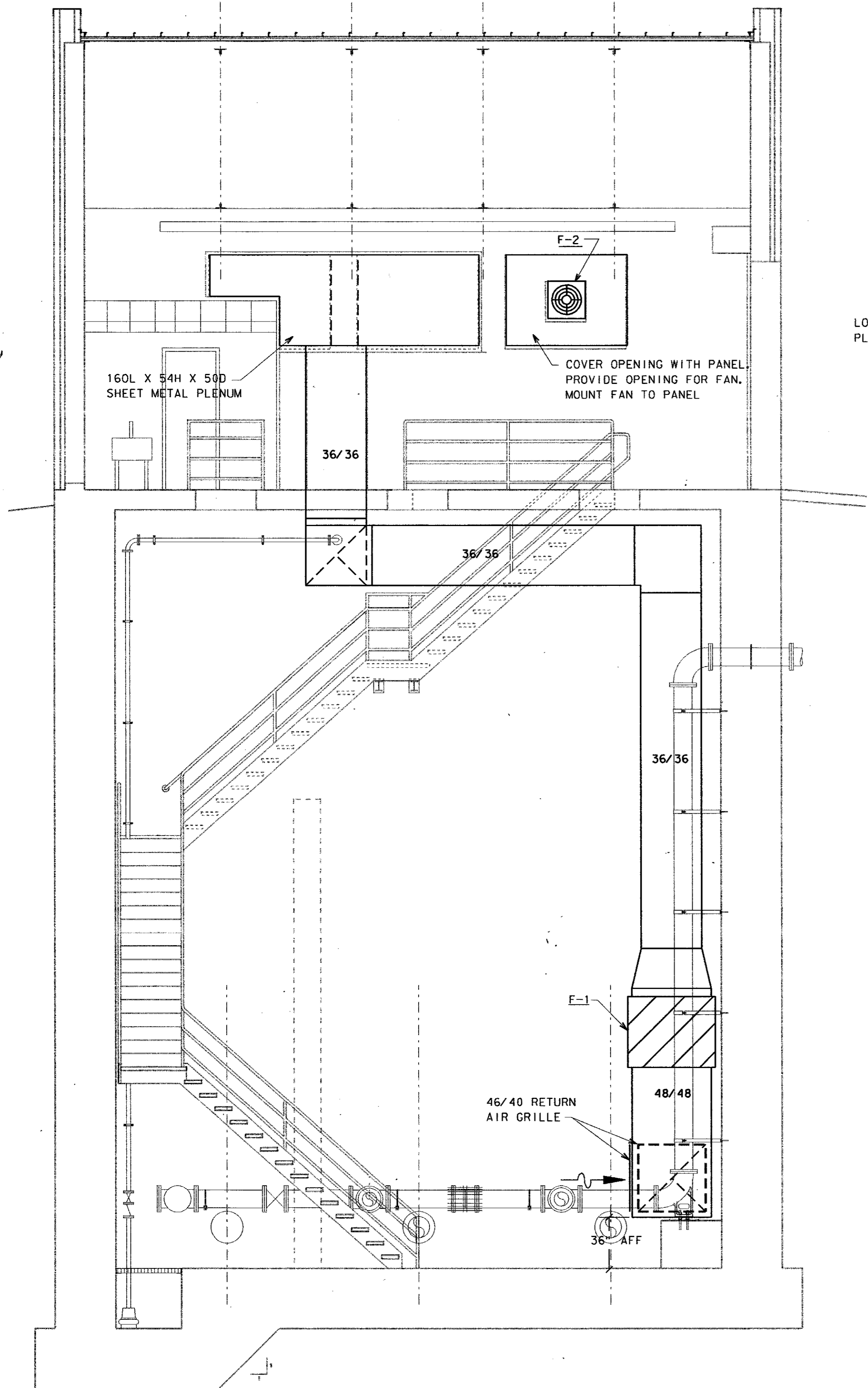
TOWN OF ADDISON, TEXAS

MIDWAY/BELTLINE SANITARY SEWER PHASE II

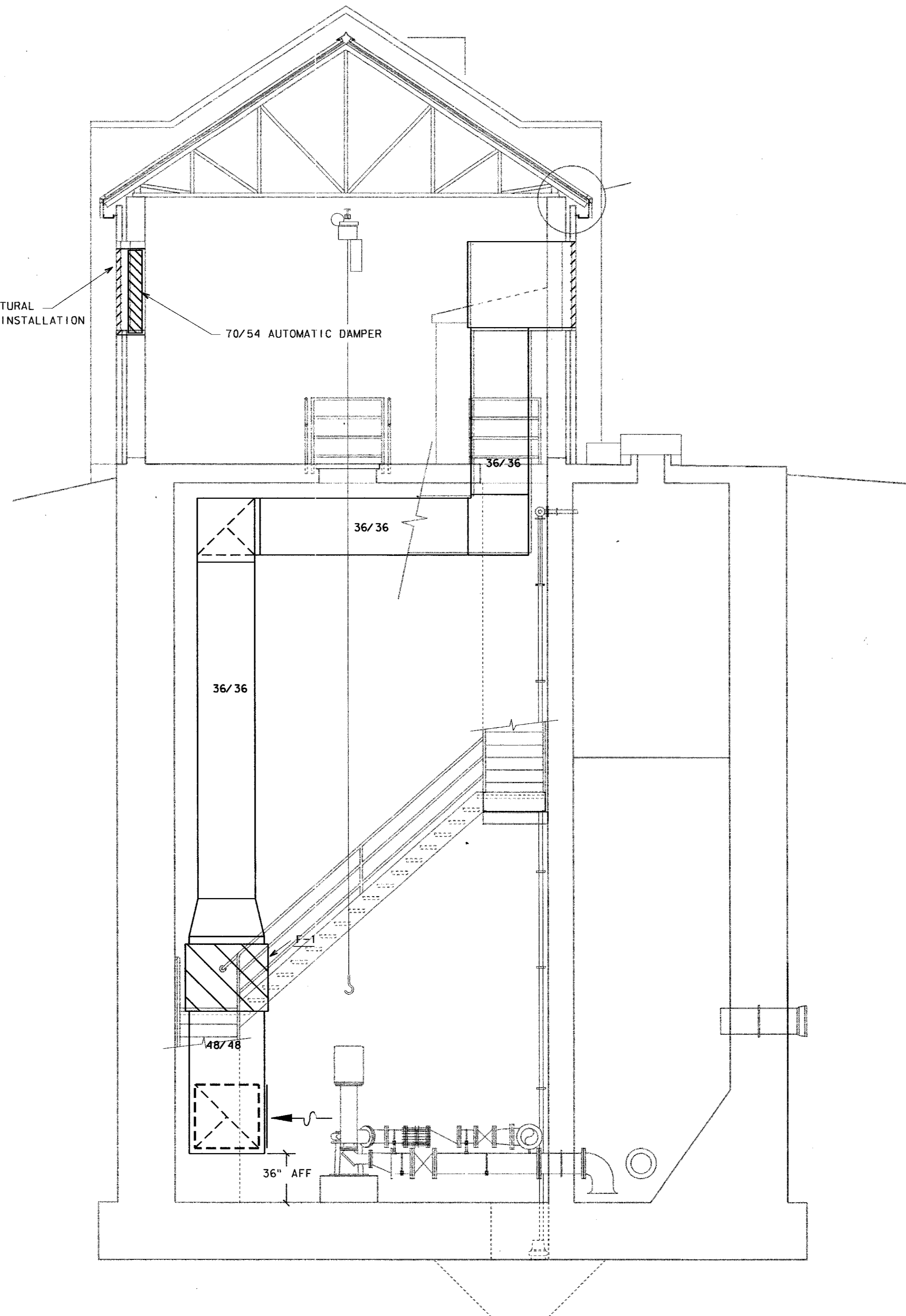
LIFT STATION- HVAC FLOOR PLANS



Unit	J. Grzelakowski	Scale	1/4" = 1'-0"	Date	04-05-96
Designed	J. Grzelakowski	Checked	J. Lindner	Job No.	93327601D
Drawn		Approved	J. Lindner	Sheet	52 of 63



SECTION A  
1/4" = 1'-0"

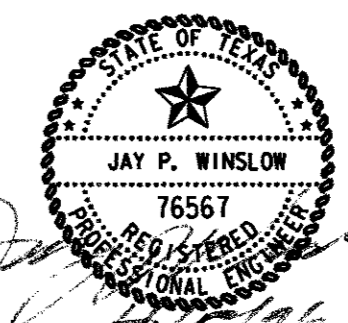


SECTION B  
1/4" = 1'-0"

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NO.	DATE	REVISION

TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LIFT STATION - HVAC SECTIONS

**Carter Burgess**  
 Consultants in Engineering, Architecture,  
 Planning and the Environment  
 CARTER & BURGESS, INC.  
 7950 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961



Unit	Scale	1/4" = 1'-0"	Date	04-05-96
Designed	J. Grzelokowski	Checked	J. Lindner	Job No. 933276010
Drawn	J. Grzelokowski	Approved	J. Lindner	Sheet 53 of 63

# ABBREVIATIONS

(ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

<b>A</b>	AIR CONDITIONING ABOVE ALTERNATING CURRENT AIR COOLED CHILLER AIR COOLED CONDENSING UNIT ADJUSTABLE AMPERE FUSE ABOVE FINISHED CEILING ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CURRENT ALUMINUM AMPERES ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ARCHITECT, ARCHITECTURAL AIR CONDITIONING AND REFRIGERATION INSTITUTE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS AMERICAN SOCIETY OF MECHANICAL ENGINEERS AMERICAN SOCIETY OF TESTING AND MATERIALS AUXILIARY AIR VENT AMERICAN WIRE GAUGE AMERICAN WELDING SOCIETY AMERICAN WATER WORKS ASSOCIATION AUTOMATIC TELLER MACHINE	<b>G</b>	GND GA GAL GALV GC GF GFI GFR GPD GPH GPM	GROUND GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GROUND FAULT INTERRUPTER PLUMBING GROUND FAULT RELAY GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE	<b>P</b>	PA PD PF PH PIV PLBG PNL PSF PSI PSIA PSIG PSV PV PVC	PUBLIC ADDRESS PRESSURE DROP POWER FACTOR PHASE POST INDICATOR VALVE PLUMBING PANEL POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE PRESSURE SAFETY VALVE, RELIEF VALVE PLUG VALVE POLYVINYL CHLORIDE
<b>B</b>	BUILDING AUTOMATION SYSTEM BACKDRAFT DAMPER BELOW FINISHED FLOOR BOILER FEED WATER BREAKER BUILDING BOTTOM OF DUCT BOTTOM OF PIPE BOTTOM OF STRUCTURE BRITISH THERMAL UNIT	<b>H</b>	H HD HOA HORIZ HP HSTAT HSTM HTG HTR HYAC	HEIGHT HEAD, HUB DRAIN HAND-OFF-AUTOMATIC HORIZONTAL HORSEPOWER HUMIDISTAT HIGH PRESSURE STEAM HEATING HEATER HEATING, VENTILATING AND AIR CONDITIONING HOT WATER HYDRANT HERTZ	<b>Q</b>	QTY	QUANTITY
<b>C</b>	CONDUIT CABLE TELEVISION SYSTEM CLOSED CIRCUIT TELEVISION CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CAST IRON CIRCULATING CIRCUIT CENTERLINE CEILING CONCRETE MASONRY UNIT CLEANOUT COLUMN CHLORINATED POLYVINYL CHLORIDE COPPER COLD WATER DEGREES CELSIUS CONTACTOR	<b>I</b>	ID IE IEEE IES IG IN IN WC	INSIDE DIAMETER INVERT ELEVATION INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS ILLUMINATING ENGINEERING SOCIETY ISOLATED GROUND INCH INCHES OF WATER COLUMN	<b>R</b>	RA RCP RD RE+ RECIRC REINF REOD REV RGS RH RHO RL RLA RM RPM RS RTU	RETURN AIR REFLECTED CEILING PLAN, REINFORCED CONCRETE PIPE ROOF DRAIN REFERENCE, REFER RECYCLATE REINFORCING REQUIRED REVISION, REVISE RIGID GALVANIZED STEEL RELATIVE HUMIDITY REFRIGERANT HOT GAS REFRIGERANT LIQUID RUNNING LOAD AMPS ROOM REVOLUTIONS PER MINUTE REFRIGERANT SUCTION ROOF TOP UNIT
<b>D</b>	DEPTH DRY BULB DIRECT CURRENT DEGREES DESIGNATION DIAMETER DIMENSION DISCONNECT DOWN DPDT DPST DS DWG DX	<b>J</b>	J-BOX	JUNCTION BOX	<b>S</b>	SA SD SECT SF SHT SIM SHT MTL SMACNA SP SPEC SQ SS ST STD STL SURF SUSP	SUPPLY AIR SMOKE DAMPER, STORM DRAIN SECTION SQUARE FEET SHEET SIMILAR SHEET METAL SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION STATIC PRESSURE SPECIFICATION SQUARE STAINLESS STEEL, SANITARY SEWER SOUND TRAP, STEAM TRAP STANDARD STEEL SURFACE SUSPEND
<b>E</b>	EACH ENTERING AIR TEMPERATURE ECCENTRIC ENTERING DRY BULB EXHAUST FAN ELEVATION ELECTRICAL ENCLOSURE EQUIPMENT EXTERNAL STATIC PRESSURE ENTERING WET BULB ELECTRICAL WATER COOLER ENTERING WATER TEMPERATURE EXHAUST EXISTING ELECTRIC UNIT HEATER	<b>K</b>	KCMIL KV KVA KW KWH	1000 CIRCULAR MILS KILOVOLT KILOVOLT-AMPS KILOWATT KILOWATT-HOUR	<b>T</b>	TDH THRU TP TSP TSTAT TV TF	TOTAL DYNAMIC HEAD THROUGH TOTAL PRESSURE TOTAL STATIC PRESSURE THERMOSTAT TYPICAL TELEVISION TRANSFER FAN
<b>F</b>	FIRE ALARM FIRE ALARM CONTROL PANEL FLOOR CLEANOUT FAN COIL UNIT FLOW LINE FULL LOAD AMPS FLEXIBLE FEET PER MINUTE FOOT, FEET FULL-VOLTAGE, NON-REVERSING DEGREES FAHRENHEIT	<b>L</b>	L LAT LB, # LDB LF LP LRA LSTM LTC LWB LWT	LENGTH LEAVING AIR TEMPERATURE POUNDS LEAVING DRY BULB LINEAR FEET LOW PRESSURE LOCKED MOTOR AMPS LOW PRESSURE STEAM (15 PSIG) LIGHTING LEAVING WET BULB LEAVING WATER TEMPERATURE	<b>U</b>	U/F U/G U/S UL UDN UPS	UNDERFLOOR UNDERGROUND UNDERSLAB UNDERWIRE LABORATORIES, INC. UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY
		<b>M</b>	MAX MEH MCA MCB MCC MD MECH MFR MG MH MIN MLO MTD	MAXIMUM 1000 BTU PER HOUR MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTORIZED DAMPER MECHANICAL MANUFACTURER MOTOR GENERATOR MANHOLE, METAL HALIDE MINIMUM MAIN LUGS ONLY MOUNTED	<b>V</b>	V VA VAC VAV VCP VD VEL VERT VTR VSI	VOLT VOLT-AMPERE VACUUM VARIABLE AIR VOLUME VITRIFIED CLAY PIPE VOLUME DAMPER VELOCITY VERTICAL VENT THROUGH ROOF VENTURE STORES, INC.
		<b>N</b>	N/A NC NEC NEMA NFPA NIC N.O. N.T.S.	NOT APPLICABLE NOISE CRITERIA, NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT N.O. N.T.S.	<b>W</b>	W W/ W/O WB WG WPD WP WT WH	WATT, WIDTH WITHOUT WET BULB WATER GONG WATER PRESSURE DROP WEATHER PROOF WATERTIGHT, WEIGHT WATER HEATER
		<b>O</b>	OA OBD O.C. OD OPG OS&Y OSHA	OUTSIDE AIR OPPOSED BLADE DAMPER ON CENTER OUTSIDE DIAMETER OPENING OUTSIDE STEM AND YOKE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	<b>X</b>	XFMR	TRANSFORMER

# ELECTRICAL SYMBOLS

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

<b>LIGHTING</b>	INCANDESCENT OR HID LIGHTING FIXTURE, LETTER DENOTES TYPE WALL WASHER LIGHTING FIXTURE, LETTER DENOTES TYPE EXIT SIGN, ARROWS AS INDICATED, LETTER DENOTES TYPE DARKENED AREA DENOTES LIGHTED FACE STRIP FLUORESCENT LIGHTING FIXTURE, LETTER DENOTES TYPE LIGHT FIXTURE ON EMERGENCY OR LIFE SAFETY CIRCUIT FLUORESCENT FIXTURE, LETTER DENOTES TYPE WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK
-----------------	--

# MOUNTING HEIGHTS

(UNLESS OTHERWISE NOTED)

WALL SWITCHES-48" A.F.F. TO CENTER OF SWITCH.  
 WALL RECEPTACLES:  
 DUPLEX - 15" A.F.F. TO CENTER OF RECEPTACLE.  
 QUADPLEX - 15" A.F.F. TO CENTER OF RECEPTACLE.  
 WALL TELEPHONE/DATA OUTLETS:  
 FINISHED AREAS-12" A.F.F. TO CENTER OF OUTLET.  
 WALL MOUNTED - 42" A.F.F. TO CENTER OF OUTLET.  
 WALL DIMMER SWITCHES-48" A.F.F. TO CENTER OF SWITCH.  
 WALL MOUNTED EMERGENCY LIGHT FIXTURE-84" A.F.F. TO CENTER OF FIXTURE.  
 CLOCK OUTLET-84" A.F.F. TO CENTER OF OUTLET.  
 FIRE ALARM PULL STATION-48" A.F.F. TO CENTER OF STATION.  
 FIRE ALARM HORN OR BELL-84" A.F.F. TO CENTER OF HORN OR BELL.

# SWITCHES

<b>S</b>	SWITCH, SPST, 20A, 120/277V
<b>S<sub>3</sub></b>	SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY
<b>S<sub>L</sub></b>	SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT
<b>S<sub>K</sub></b>	SWITCH, SPST, 20A, 120/277V, "K" DENOTES KEY SWITCH, "P" DENOTES PILOT LIGHT, "N" DENOTES NARROW MULTION SWITCH
<b>S<sub>D</sub></b>	DIMMER CONTROL SWITCH, 2000 WATT UNLESS OTHERWISE NOTED

# GENERAL NOTES

- REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR ELECTRICAL CONSTRUCTION
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
- REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.
- COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES IN MECHANICAL / ELECTRICAL SPACES WITH EQUIPMENT, DUCTWORK AND PIPING.
- PROVIDE 2\*12, 1\*12G, IN A MINIMUM 1/2" C., UNLESS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. PROVIDE 4\*12, 1\*12 GND, FOR ALL 3 CIRCUIT HOMERUNS.
- MINIMUM SIZE CONDUIT FOR HOMERUNS IS 3/4" C.
- COORDINATE ALL SLAB PENETRATIONS AND SLEEVES PRIOR TO EACH CONCRETE POUR.
- PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS IS REQUIRED TO CONCEALED ELECTRICAL BOXES AND DEVICES.
- MAINTAIN ALL NEC. REQUIRED CLEARANCES. NOTIFY A/E OF ANY DISCREPANCIES PRIOR TO INSTALLATION.

# RECEPTACLES AND OUTLETS

	SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V
	DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V, "H" DENOTES MOUNTED HORIZONTALLY, RE SPECIFICATIONS
	DUPLEX WALL RECEPTACLE ON DEDICATED CIRCUIT.
	DUPLEX WALL RECEPTACLE. "WP" DENOTES WEATHERPROOF, "GF" DENOTES SAFETY TYPE. "GF1" DENOTES GROUND FAULT INTERRUPTER.
	FOURPLEX WALL RECEPTACLE. NEMA 5-20R, 20A, 125V
	FOURPLEX WALL RECEPTACLE. NEMA 5-20R, 20A, 125V ON DEDICATED CIRCUIT
	SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED
	FLOOR RECEPTACLE, "F" DENOTES FLUSH.
	TELEVISION OUTLET
	CLOCK RECEPTACLE
	MULTI-OUTLET SURFACE RACEWAY WITH NEMA 5-20R, 20A, 125V AT 12" ON CENTER
	JUNCTION BOX POWER & LIGHTING, S-SECURITY SYSTEM
	POWER/TELEPHONE/DATA POLE (FOR MODULAR FURNITURE)
	FLOOR TELEPHONE OUTLET "F" DENOTES FLUSH
	FLOOR DATA OUTLET "F" DENOTES FLUSH
	FLOOR RECEPTACLE/TELEPHONE OUTLET "F" DENOTES FLUSH
	FLOOR RECEPTACLE/DATA OUTLET "F" DENOTES FLUSH
	TELEPHONE OUTLET STUB 3/4" CONDUIT & PULLCORD OUT 6" AFC.
	DATA OUTLET STUB 3/4" CONDUIT AND PULLCORD OUT 6" AFC.
	TELEPHONE & DATA OUTLET STUB 3/4" CONDUIT AND PULLCORD OUT 6" AFC.

# CIRCUITING AND WIRING

	CIRCUIT CONCEALED IN WALL OR CEILING
	CIRCUIT BELOW SLAB OR GRADE
	UNDERGROUND CIRCUIT/DUCTBANK
	HASH MARKS INDICATE NUMBER OF CONDUCTORS (LEFT TO RIGHT: NEUTRAL/PHASE/SWITCH LEG/GROUND). NO HASH MARKS INDICATE 2*12 AND 1*12 GROUND, UNLESS OTHERWISE NOTED.
	HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
	CONDUIT STUB UP
	CONDUIT STUB DOWN

# PANEL DESIGNATIONS (NEW)

H2A	"H" DENOTES VOLTAGE - "H"=480Y/277V, "L"=208Y/120V
H2EA	"2" DENOTES FLOOR WHERE PANEL IS LOCATED (OMITTED IF SINGLE STORY)
	"E" DENOTES SYSTEM TYPE - BLANK = NORMAL POWER, E= EMERGENCY POWER
	"A" DENOTES PANEL SEQUENCE

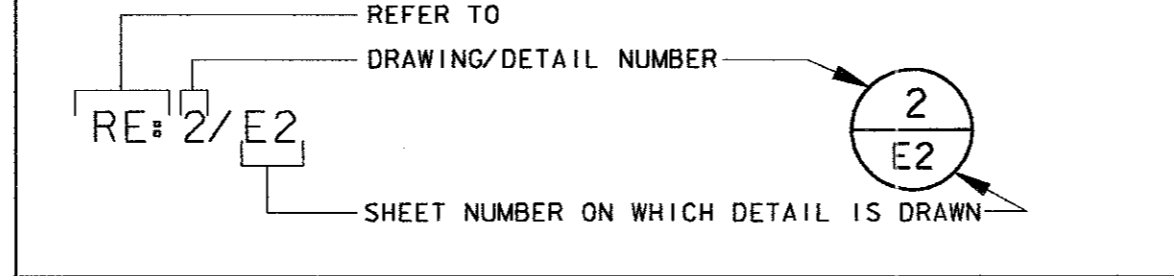
# ELECTRICAL EQUIPMENT

	DISTRIBUTION PANEL
	SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD.
	PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
	DRY-TYPE TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
	PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4" X 8" X 3/4" UNLESS OTHERWISE NOTED
	TERMINAL CABINET, TYPE AS NOTED 24" X 48" X 3-1/2" UNLESS OTHERWISE NOTED.
	SURFACE MOUNTED WIREWAY, NEMA 1

# SITE

EXISTING	EXISTING TO BE REMOVED	NEW	DESCRIPTION
			PAD MOUNTED TRANSFORMER NUMBER INDICATES KVA RATING
			AREA LIGHT POLE & BRACKET ORIENTATION SHOWN, LETTER DENOTES TYPE
			UNDERGROUND PRIMARY
			UNDERGROUND SECONDARY 480Y/277V, 3PH, 4W
			UNDERGROUND TELEPHONE

# DRAWING/DETAIL REFERENCE KEY

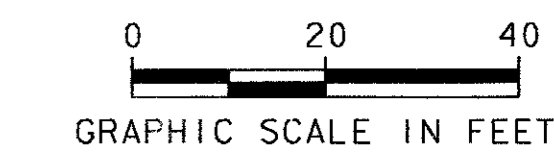
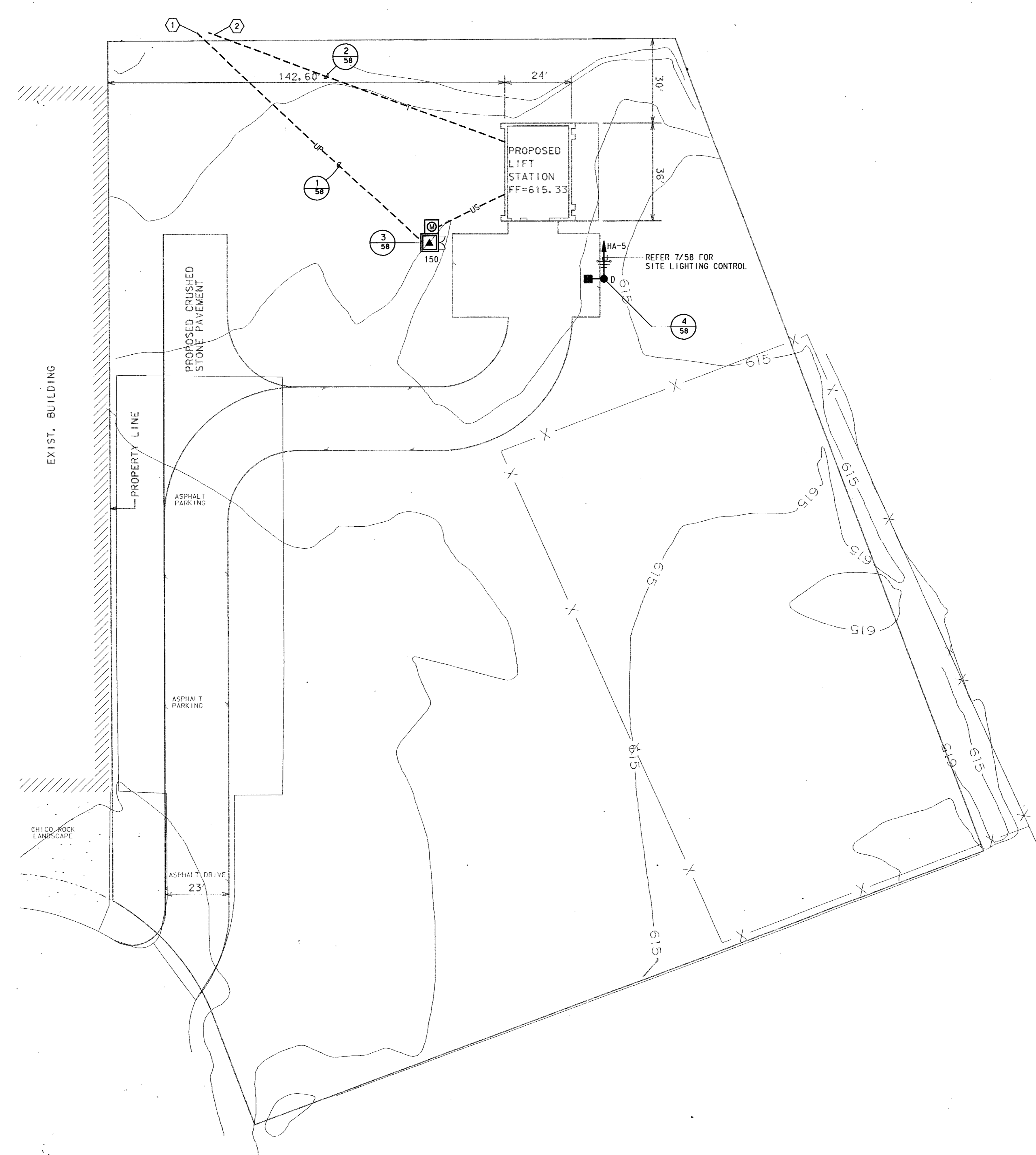


# MISCELLANEOUS

	DRAWING NOTE REFERENCE (NOTES BY SYMBOL)
	THERMOSTAT
	INTRUSION ALARM (MAGNETIC SWITCH) DEVICE.

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NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>LIFT STATION ELECTRICAL SYMBOLS &amp; ABBREVIATIONS</b>			
<b>Carter-Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Date	04-05-96
Designed	J. WEBB	Checked	J. LINDNER
Job No.	93327601D		
Drawn	J. WEBB	Approved	J. Lindner
Sheet	54	of	63

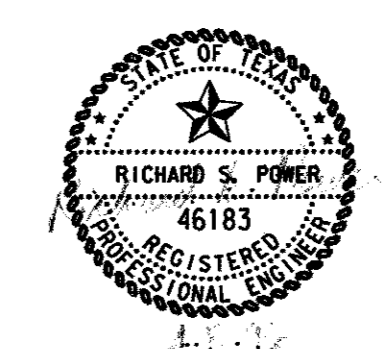
PROJECT NO. 933276010  
 SHEET NO. 55 OF 63  
 DATE 04-05-96  
 DRAWN BY J. WEBB  
 CHECKED BY R. LINDNER  
 APPROVED BY J. LINDNER  
 PROJECT LOCATION: 7950 ELMBROOK DRIVE, SUITE 250, DALLAS, TX 75247-4961  
 CLIENT: TOWN OF ADDISON, TEXAS  
 PROJECT: MIDWAY/BELTLINE SANITARY SEWER PHASE II  
 LIFT STATION ELECTRICAL SITE PLAN



**GENERAL NOTES**

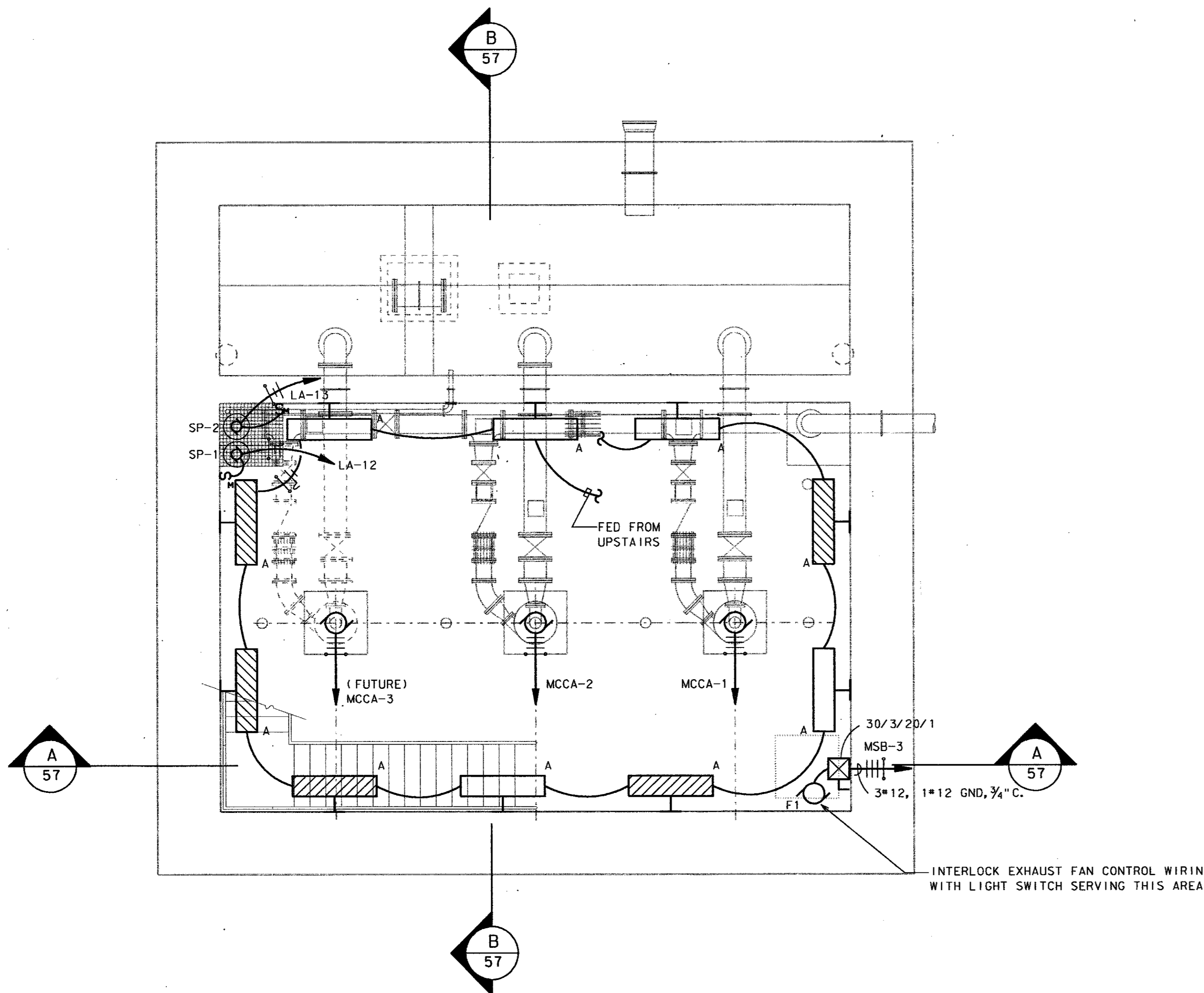
- ① VERIFY LOCATION OF TU ELECTRIC PRIMARY DIP POLE PRIOR TO INSTALLATION OF UNDERGROUND PRIMARY DUCT BANK. TWO 4" C (ONE ACTIVE, ONE SPARE). TU REPRESENTATIVE - JOEL PORTER (214) 888-1313
- ② VERIFY LOCATION OF SW BELL TELEPHONE PEDESTAL PRIOR TO INSTALLATION OF 2" C. FOR UNDERGROUND TELEPHONE.

**A SITE PLAN - ELECTRICAL**  
 SCALE: 1" = 20'

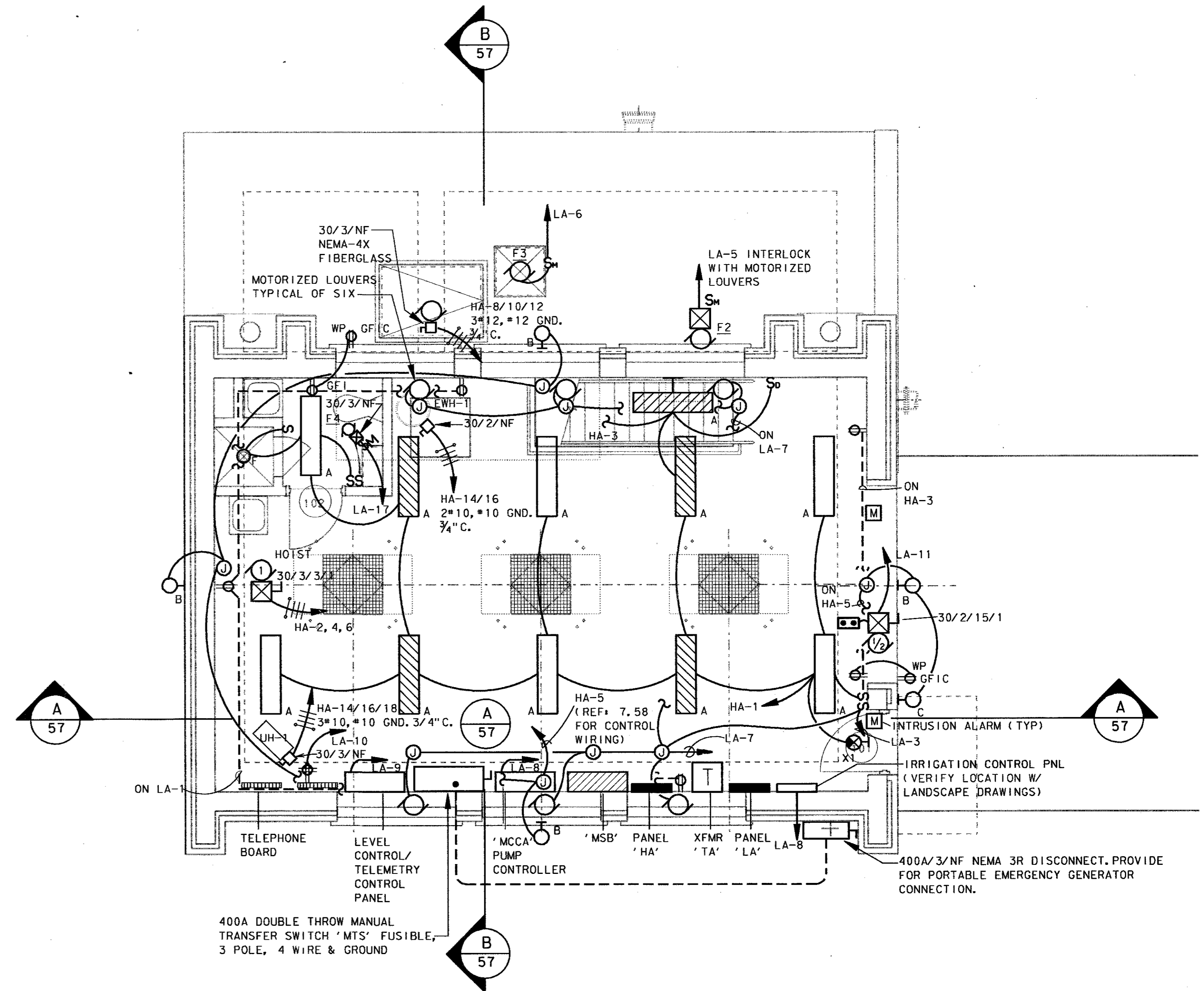


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<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>LIFT STATION ELECTRICAL SITE PLAN</b>			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 ELMBROOK DRIVE, SUITE 250        DALLAS, TX 75247-4961</small>			
Unit	Scale	Hor. 1/2. 1" = 20'	Date 04-05-96
Designed	R. Lindner	Checked	R. Lindner
Drawn	J. WEBB	Approved	J. Lindner
		Job No.	933276010
		Sheet	55 of 63

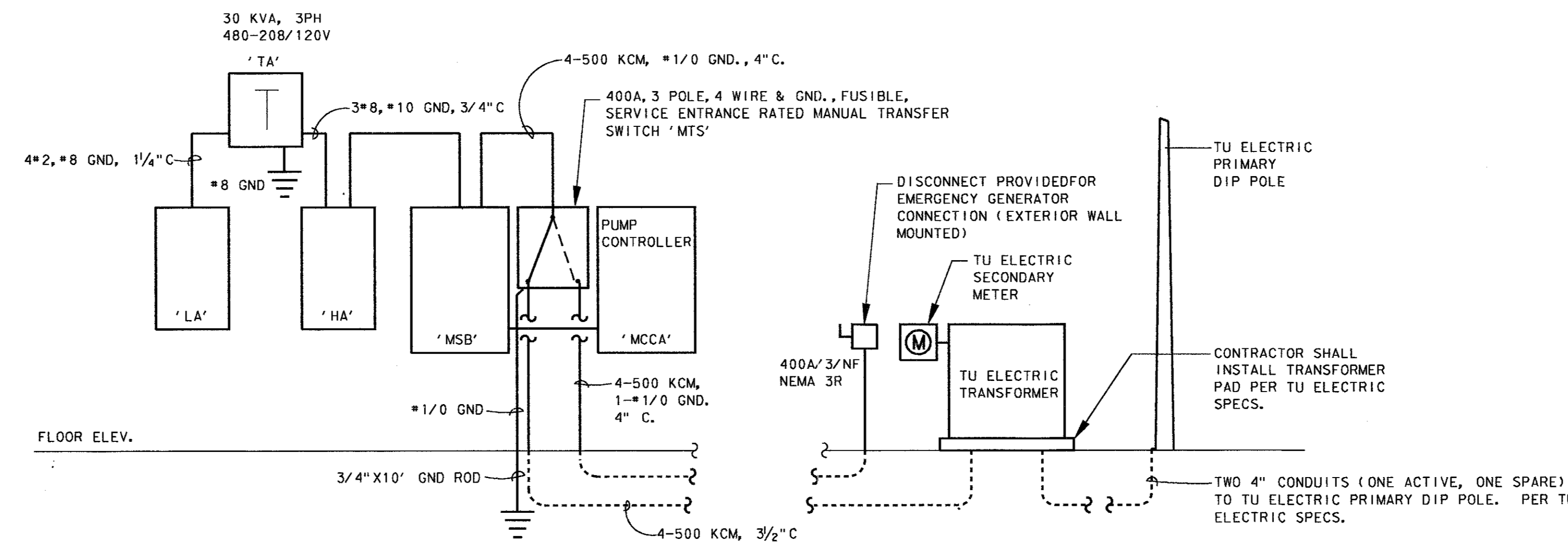




**A LOWER LEVEL LIGHTING/POWER**  
 SCALE: 1/4" = 1'-0"  
 NORTH

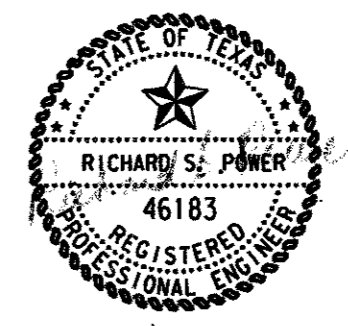


**B GROUND LEVEL LIGHTING/POWER**  
 SCALE: 1/4" = 1'-0"  
 NORTH



**C ELECTRICAL RISER DIAGRAM**  
 SCALE: NO SCALE

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NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b>			
<b>MIDWAY/BELTLINE SANITARY SEWER PHASE II</b>			
<b>LIFT STATION ELECTRICAL FLOOR PLAN</b>			
<b>Carter Burgess</b>			
<small>Consultants in Engineering, Architecture, Planning and the Environment    CARTER &amp; BURGESS, INC.    7950 ELMBROOK DRIVE, SUITE 250    DALLAS, TX 75247-4961</small>			
Unit#	Scale#	Date	04-05-96
Designed	R. F. M. / R. S. M.	Checked	R. F. M. / R. S. M. Job No. 93327601D
Drawn	J. WEBB	Approved	J. Lindner Sheet 56 of 63

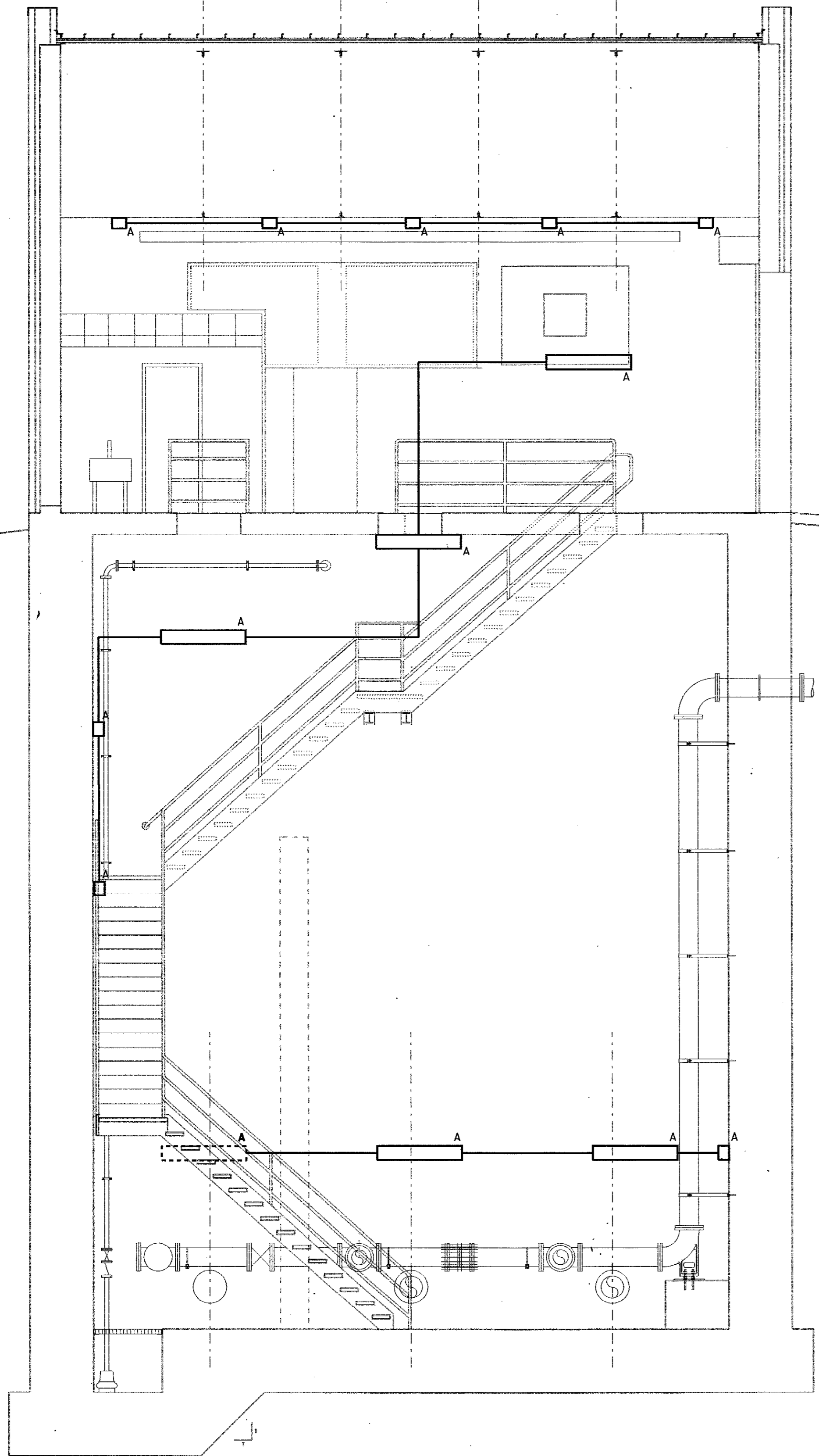


REVISIONS  
 NO. DATE BY  
 1 04-05-96 JWB  
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REVISIONS  
 NO. DATE BY  
 1 04-05-96 JWB  
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 4 04-05-96 JWB

LEVELS ON #2482  
 14-47, 16-58, 21-50, 23-50  
 24-50, 26-50, 28-50, 30-50, 32-50, 34-50, 36-50, 38-50, 40-50, 42-50, 44-50, 46-50, 48-50, 50-50, 52-50, 54-50, 56-50, 58-50, 60-50, 62-50, 64-50, 66-50, 68-50, 70-50, 72-50, 74-50, 76-50, 78-50, 80-50, 82-50, 84-50, 86-50, 88-50, 90-50, 92-50, 94-50, 96-50, 98-50, 100-50

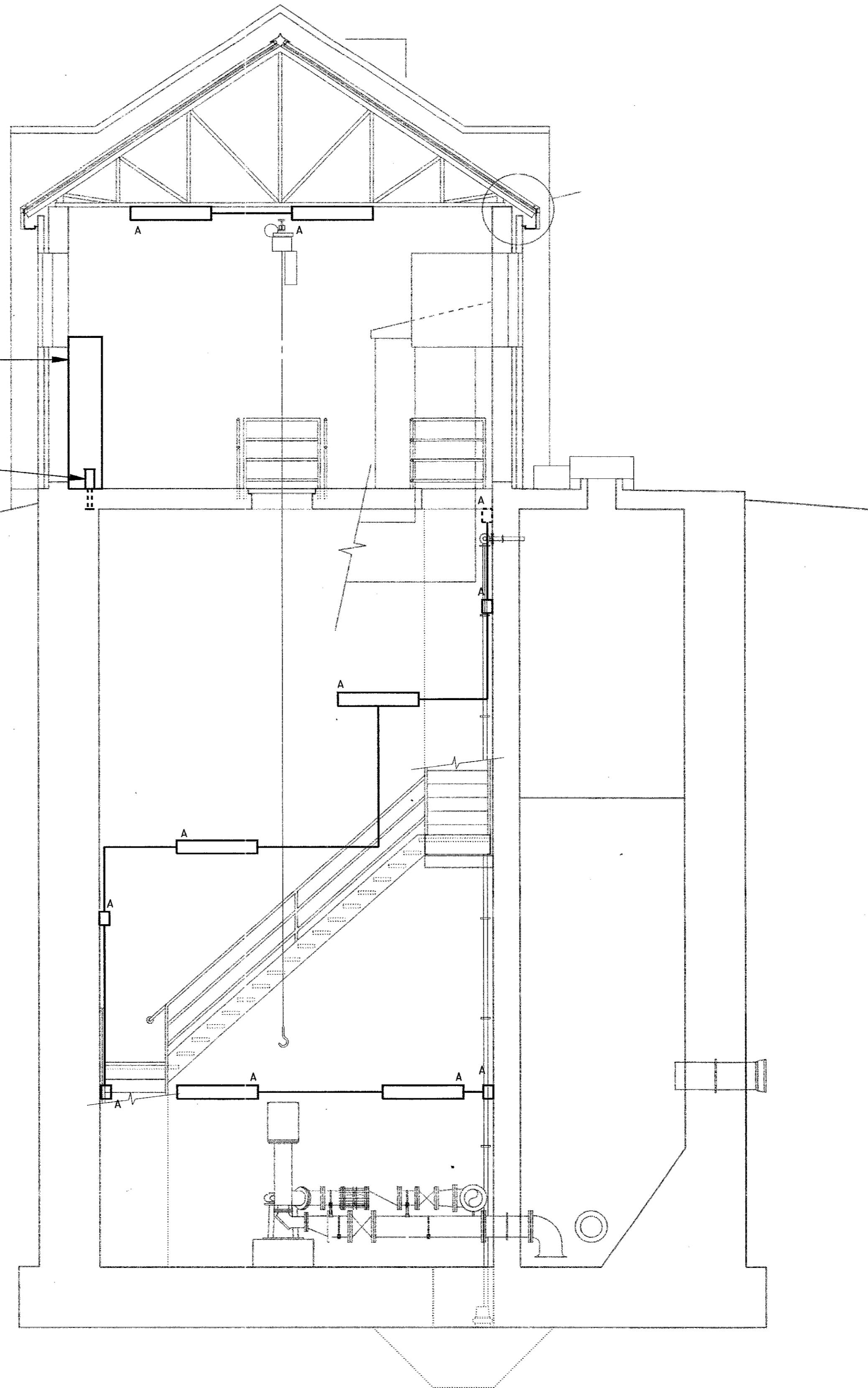
DESIGNED BY J. WEBB  
 CHECKED BY R. F. FISHER  
 DRAWN BY J. WEBB  
 APPROVED BY J. L. FISHER



**A SECTION**  
 57 SCALE: 1/4" = 1'-0"

ELECTRICAL  
 PANEL BOARDS/  
 CONTROLLERS

ALL CONDUIT PENETRATIONS  
 INTO LOWER LEVEL SHALL  
 REQUIRE EXPLOSION PROOF  
 SEALS



**B SECTION**  
 57 SCALE: 1/4" = 1'-0"

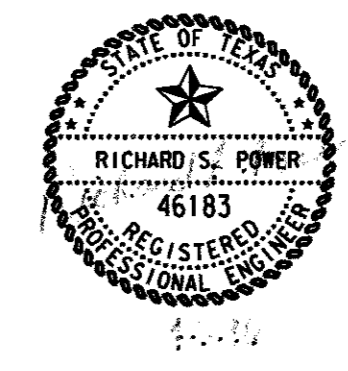
**GENERAL NOTES**

1. REFERENCE DWG. 56 FOR BRANCH CIRCUIT DESIGNATIONS.

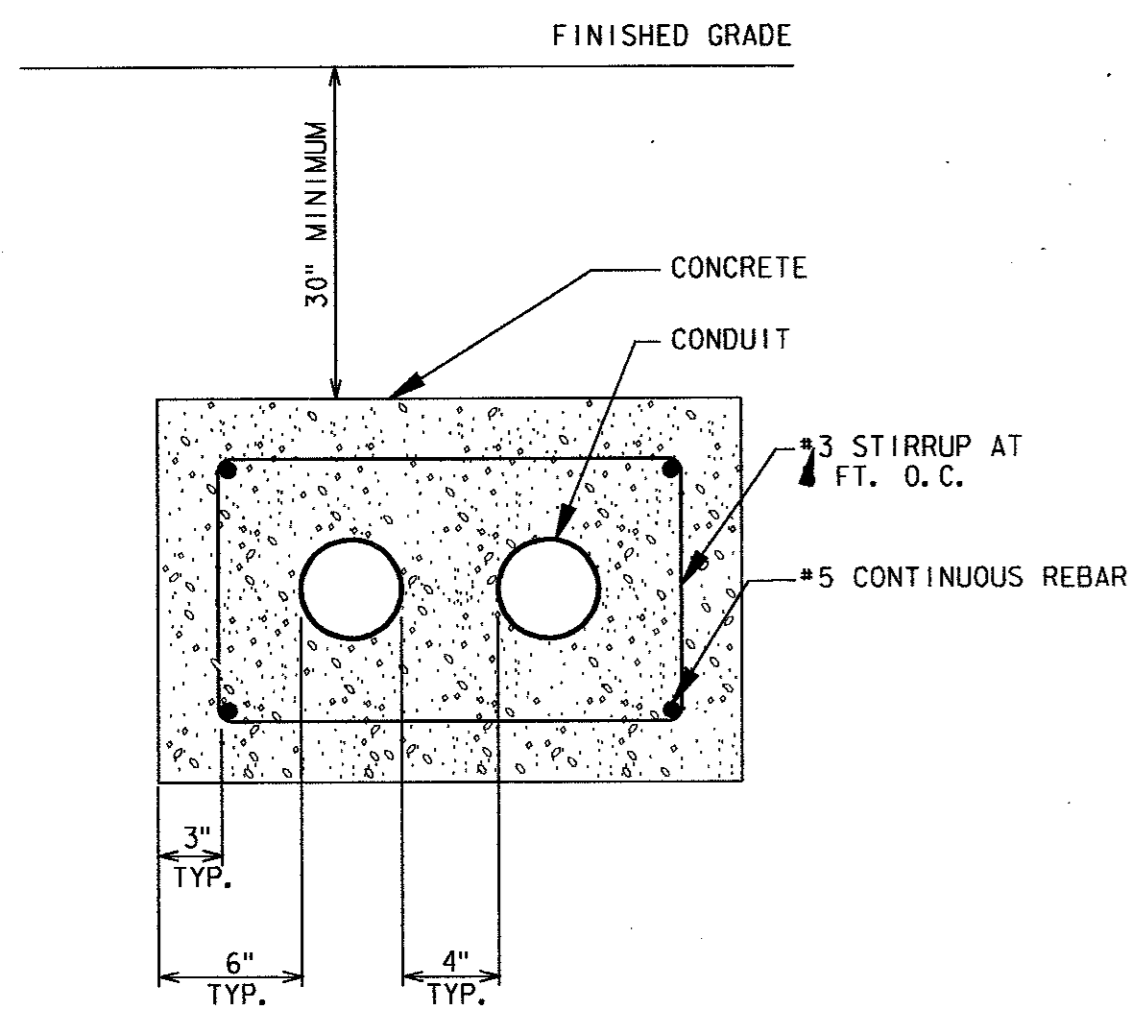
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TOWN OF ADDISON, TEXAS  
 MIDWAY/BELTLINE SANITARY SEWER  
 PHASE II  
 LIFT STATION  
 ELECTRICAL BUILDING SECTIONS

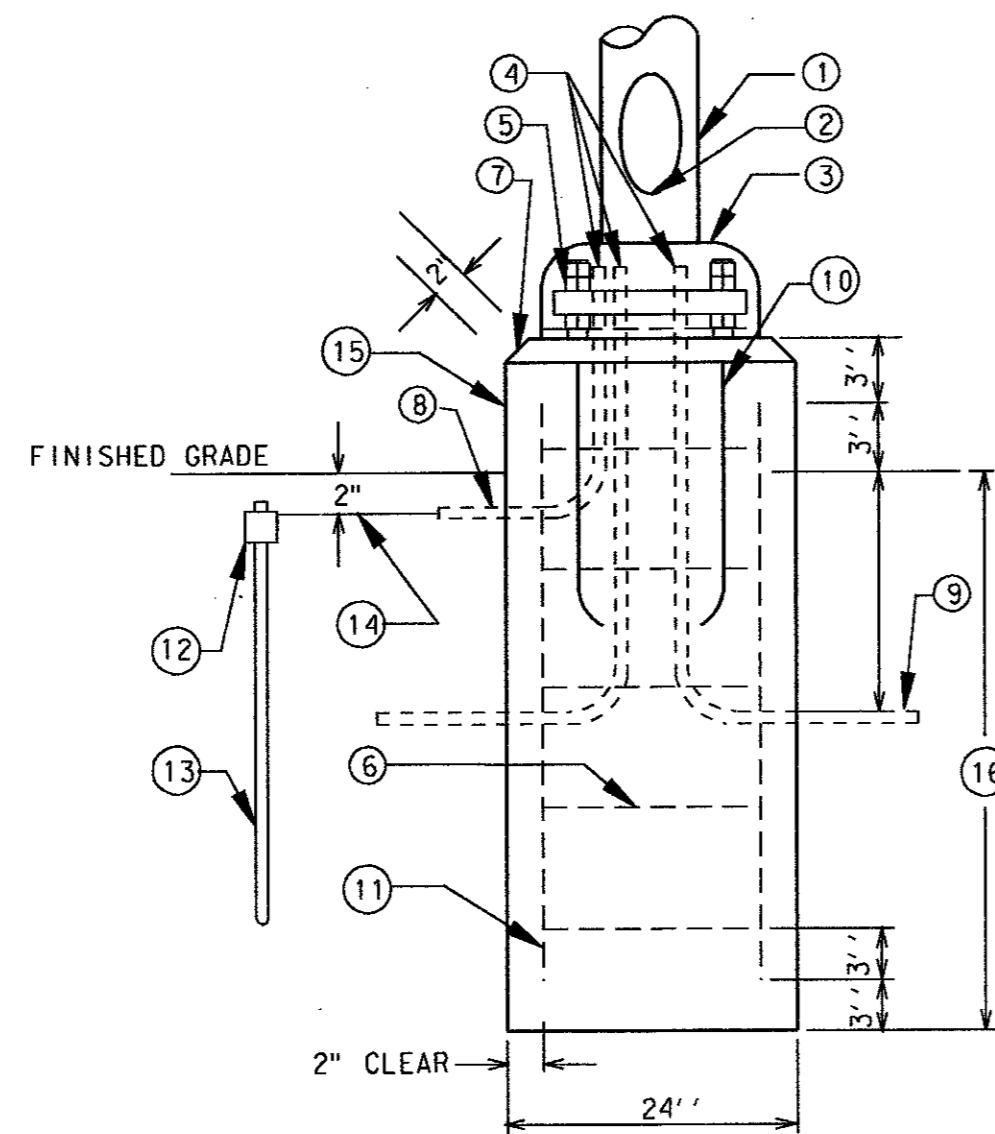
**Carter Burgess**  
 Consultants in Engineering, Architecture,  
 Planning and the Environment  
 CARTER & BURGESS, INC.  
 7950 ELMBROOK DRIVE, SUITE 250  
 DALLAS, TX 75247-4961



Unit	Scale	Date	04-05-96
Designed	J. WEBB	Checked	R. F. FISHER
Drawn	J. WEBB	Approved	J. L. FISHER
Job No.	93327601D	Sheet	57 of 63



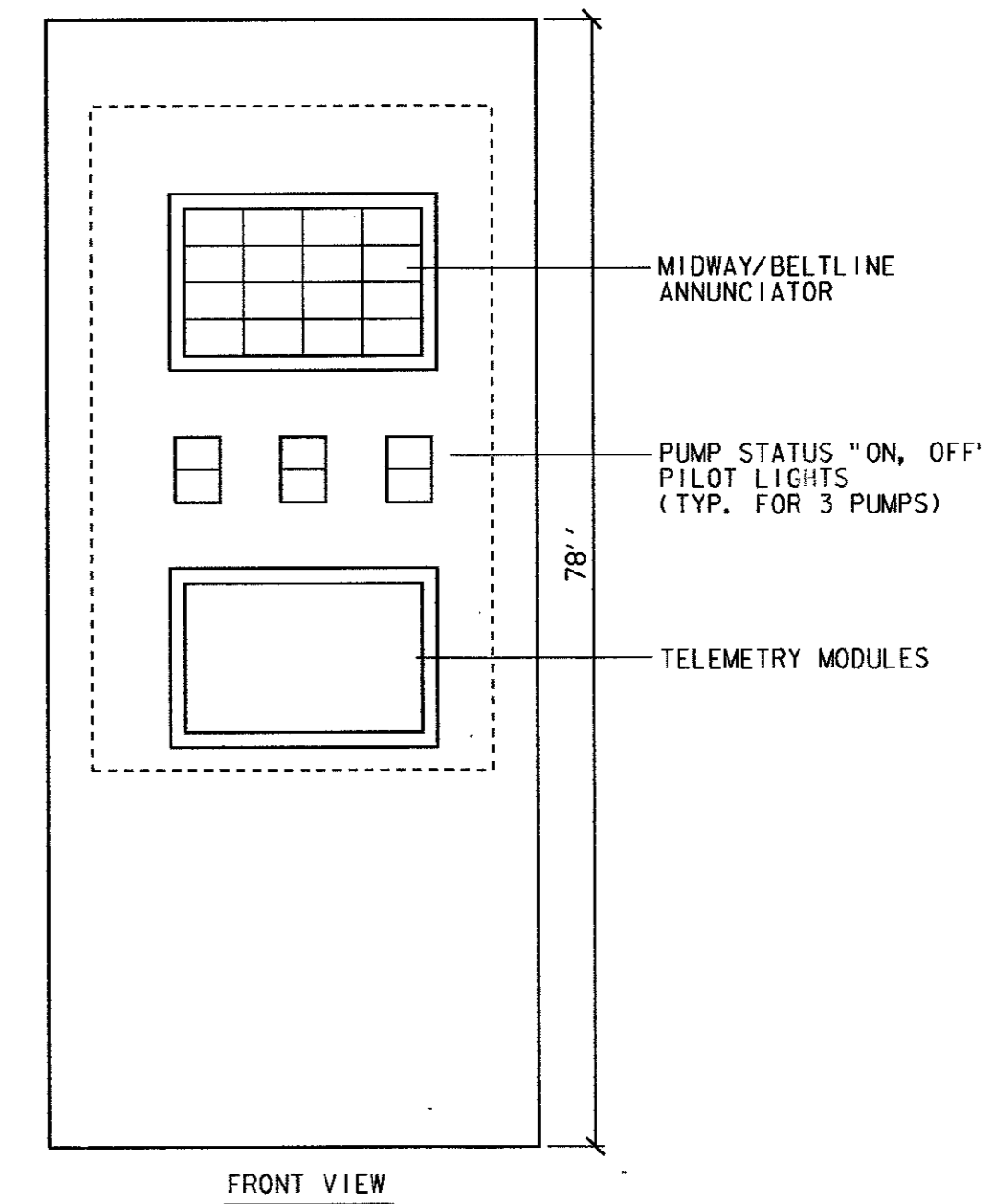
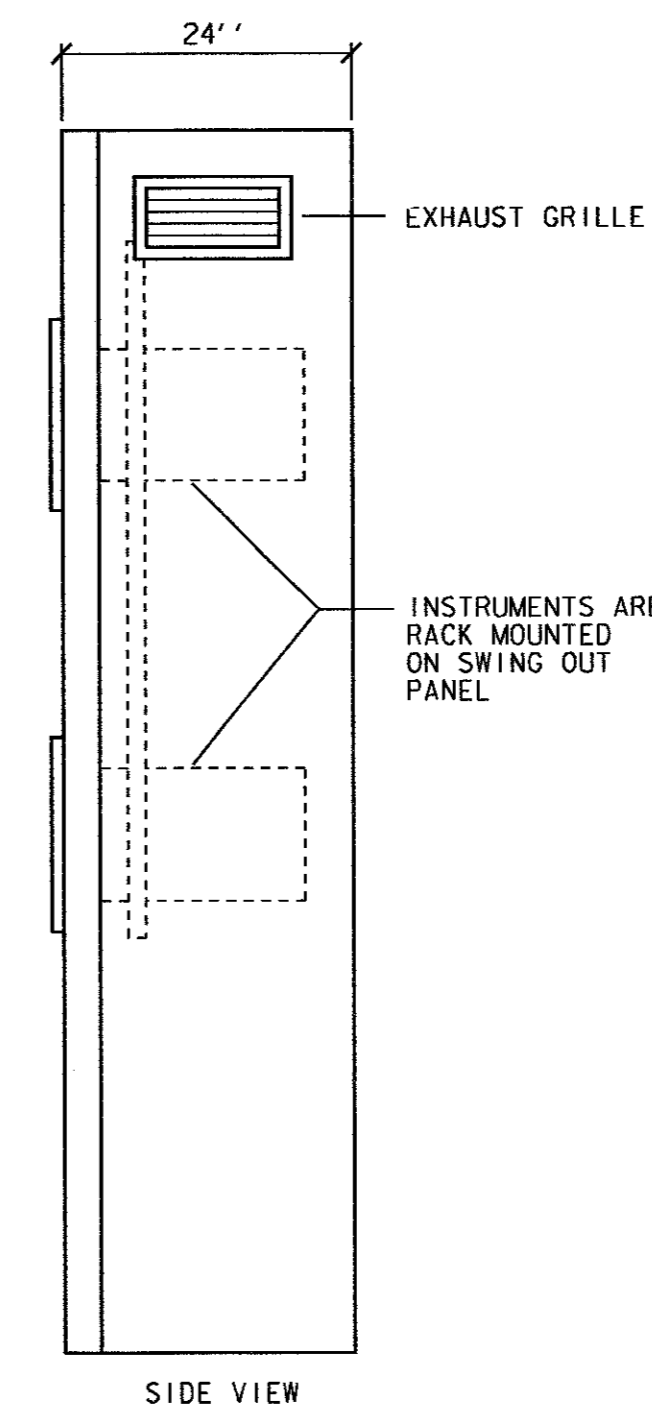
1 2E4 DUCT BANK  
58 SCALE: NO SCALE



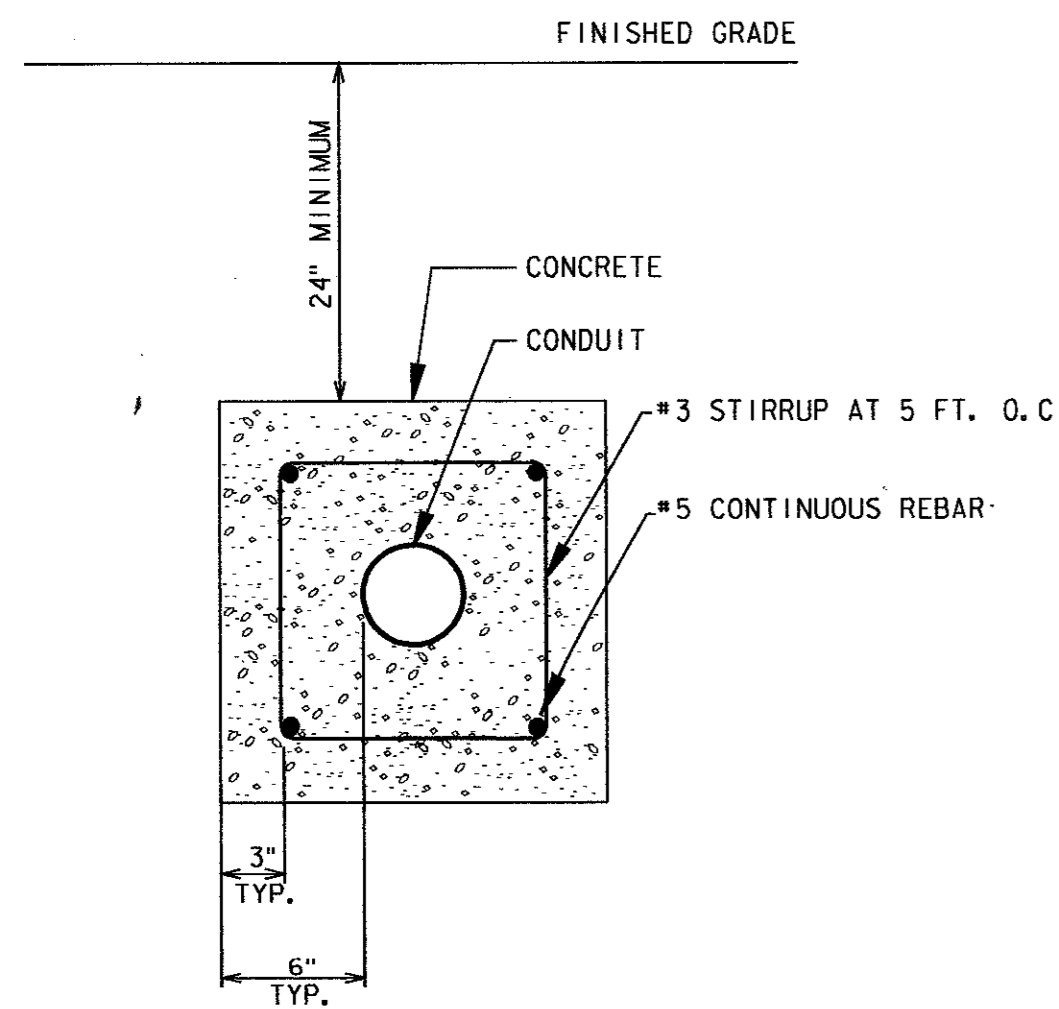
4 POLE BASE DETAIL  
58 SCALE: NO SCALE

NOTES BY SYMBOL ○

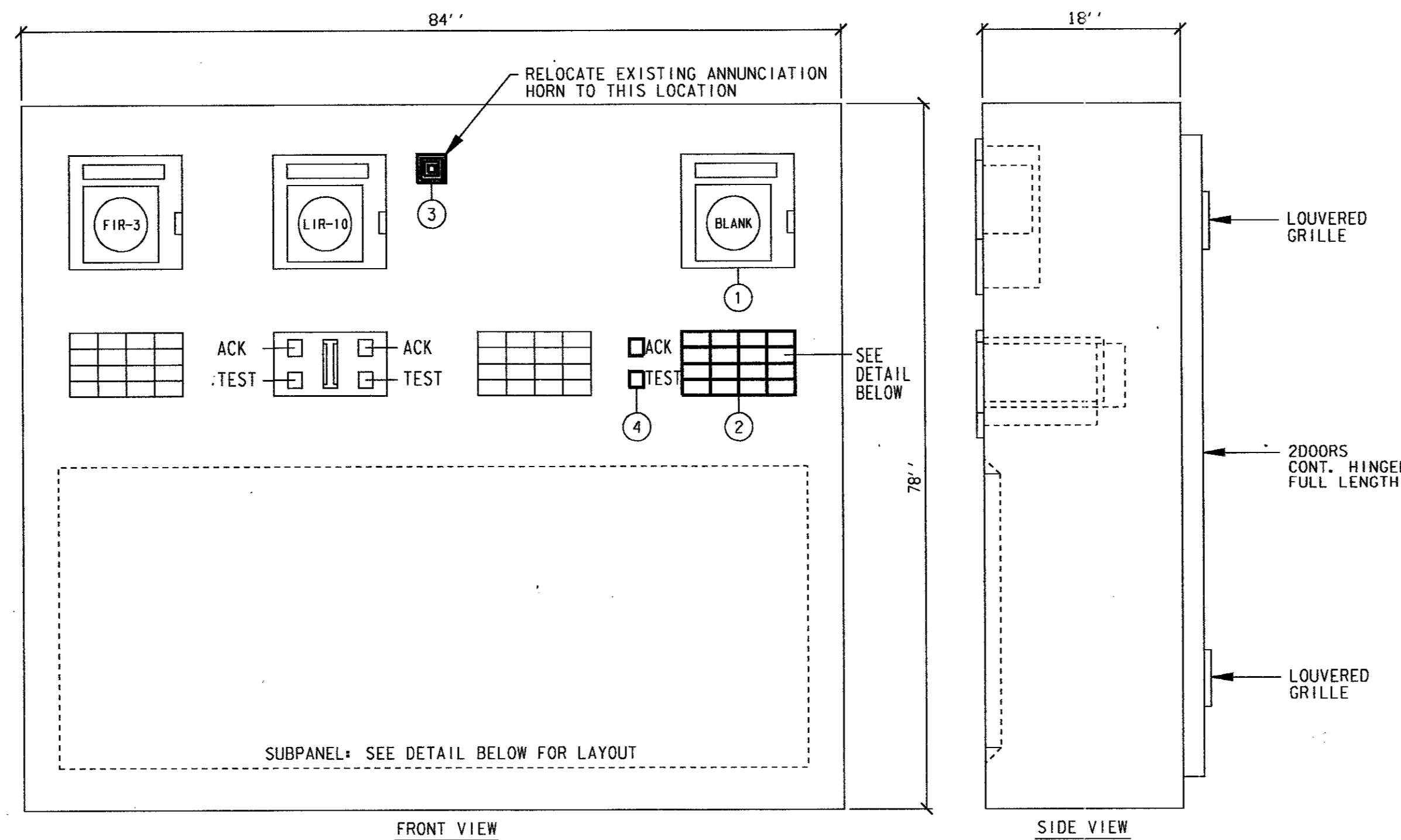
1. LIGHTING STANDARD.
2. HANDHOLE: PROVIDE INTERIOR GROUNDING LUG ACCESSIBLE FROM OPENING. PROVIDE STAINLESS STEEL COVER WITH STAINLESS STEEL SCREWS.
3. BASE COVER: MATCH MATERIAL OF POLE, EXCEPT WHERE POLE IS CONCRETE, BASE COVER SHALL BE STAINLESS STEEL.
4. CONNECT CONDUITS TO GROUNDING LUG AND GROUNDING CONDUCTOR TO GROUND ROD.
5. PROVIDE BOTTOM NUT FOR LEVELING AND DOUBLE NUTS ON TOP.
6. NO. 4 STEEL REINFORCING TIES ON 12" CENTERS.
7. CHAMFER EDGES ON BASE.
8. 1" RIGID GALVANIZED CONDUIT.
9. RIGID GALVANIZED STEEL CONDUIT TO 12" BEYOND EDGE OF CONCRETE BASE.
10. GALVANIZED STEEL ANCHOR BOLTS, FURNISHED WITH POLE, AS REQUIRED BY MANUFACTURER.
11. EIGHT NO. 4 STEEL REINFORCING RODS.
12. EXOTHERMIC WELD.
13. 7/8" X 10'-0" COPPER CLAD GROUND ROD.
14. NO. 6 BARE STRANDED COPPER CLAD GROUND WIRE CONNECT TO GROUND ROD, CONDUITS AND GROUNDING LUG.
15. CONCRETE BASE SHALL BE HAND RUBBED TO REMOVE ALL IRREGULARITIES AND PROVIDE SMOOTH FINISH, PAINT AS DIRECTED BY ARCHITECT.
16. REFER TO SPECIFICATIONS FOR DIMENSIONS.



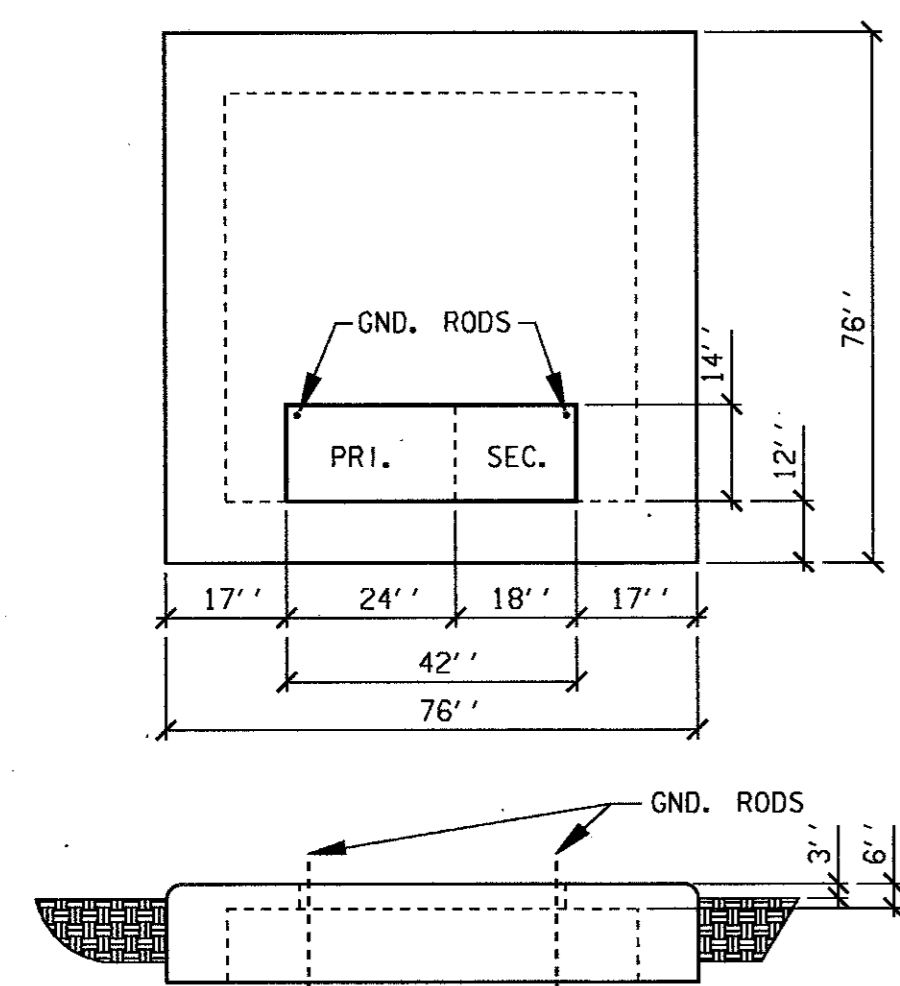
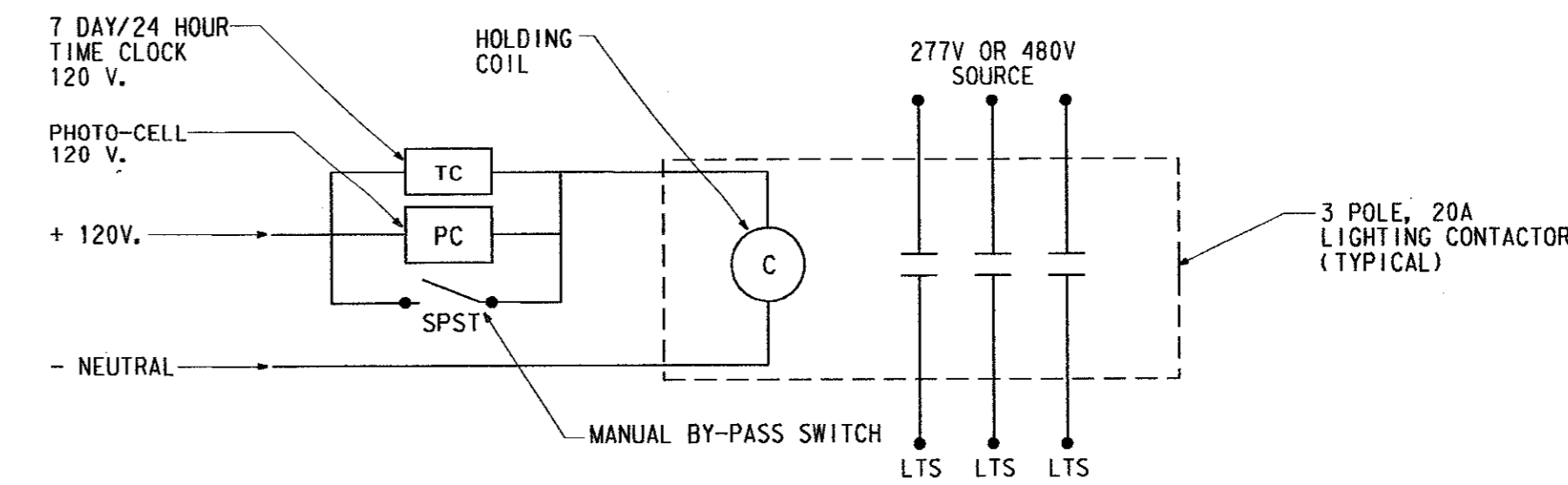
6 LEVEL CONTROL/TELEMETRY PANEL DETAIL  
58 SCALE: NO SCALE



2 1E2 DUCT BANK  
58 SCALE: NO SCALE

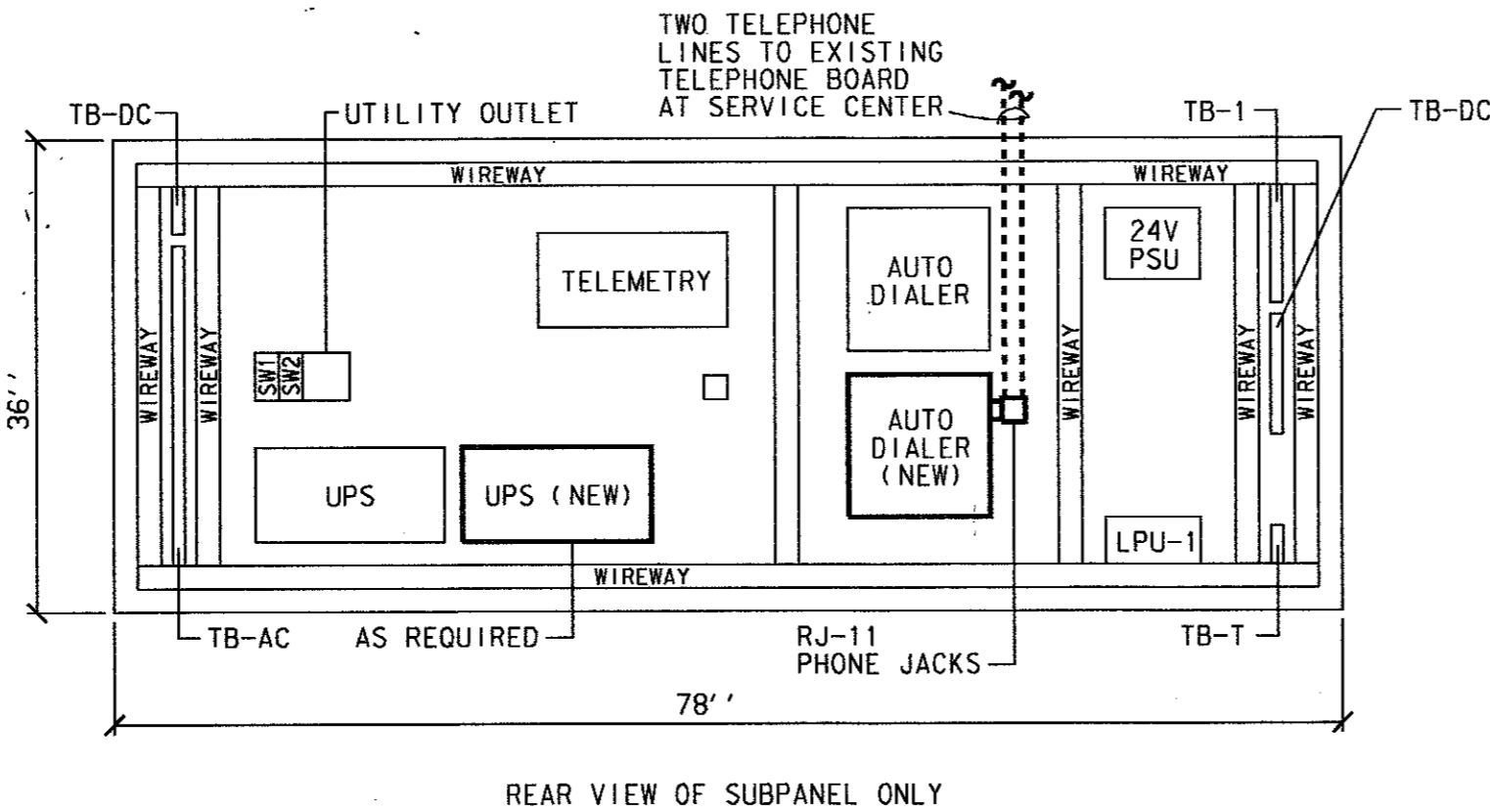


7 SITE LIGHTING CONTROL SCHEMATIC  
58 SCALE: NO SCALE



3 PADMOUNT TRANSFORMER PAD DETAIL  
58 SCALE: NO SCALE

CONTRACTOR CONFIRM FINAL TRANSFORMER SIZE AND REQUIREMENTS WITH TU ELECTRIC PRIOR TO INSTALLATION AND CONSTRUCTION. TU ELECTRIC REPRESENTATIVE (JOEL PORTER, 214-888-1313)



5 MODIFICATIONS TO EXISTING SERVICE CENTER MONITOR PANEL (GARYCO)  
58 SCALE: NO SCALE

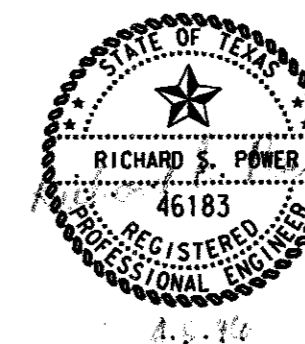
NOTES BY SYMBOL ○

1. ADD NEW CHESSELL, MODEL 390, RECORDER IN EXISTING BLANK LOCATION. PROVIDE NEW ANALOG TONE RECEIVER - DAO MODEL DAR 36-1X AND DR 38.
2. ADD NEW MIDWAY/BELTLINE LIFT STATION ANNUNCIATOR IN LOCATION UTILIZED BY EXISTING ANNUNCIATOR HORN. SEE DETAIL BELOW.
3. NEW LOCATION OF EXISTING ANNUNCIATOR HORN.
4. NEW ANNUNCIATOR TEST PUSHBUTTON / ACK TO MATCH EXISTING.

PUMP #1 FAILURE	HIGH LEVEL ALARM	POWER FAILURE	SPARE (ALARM MOD)
PUMP #2 FAILURE	LOW LEVEL ALARM	PHASE LOSS	MIDWAY/BELTLINE L. S. INTRUSION
FUTURE-PUMP #3 FAILURE	DRY WELL HIGH LEVEL	TELEMETRY FAIL	MIDWAY/BELTLINE L. S. FIRE
SPARE (ALARM MOD)	SPARE (ALARM MOD)	SPARE (ALARM MOD)	SPARE (ALARM MOD)

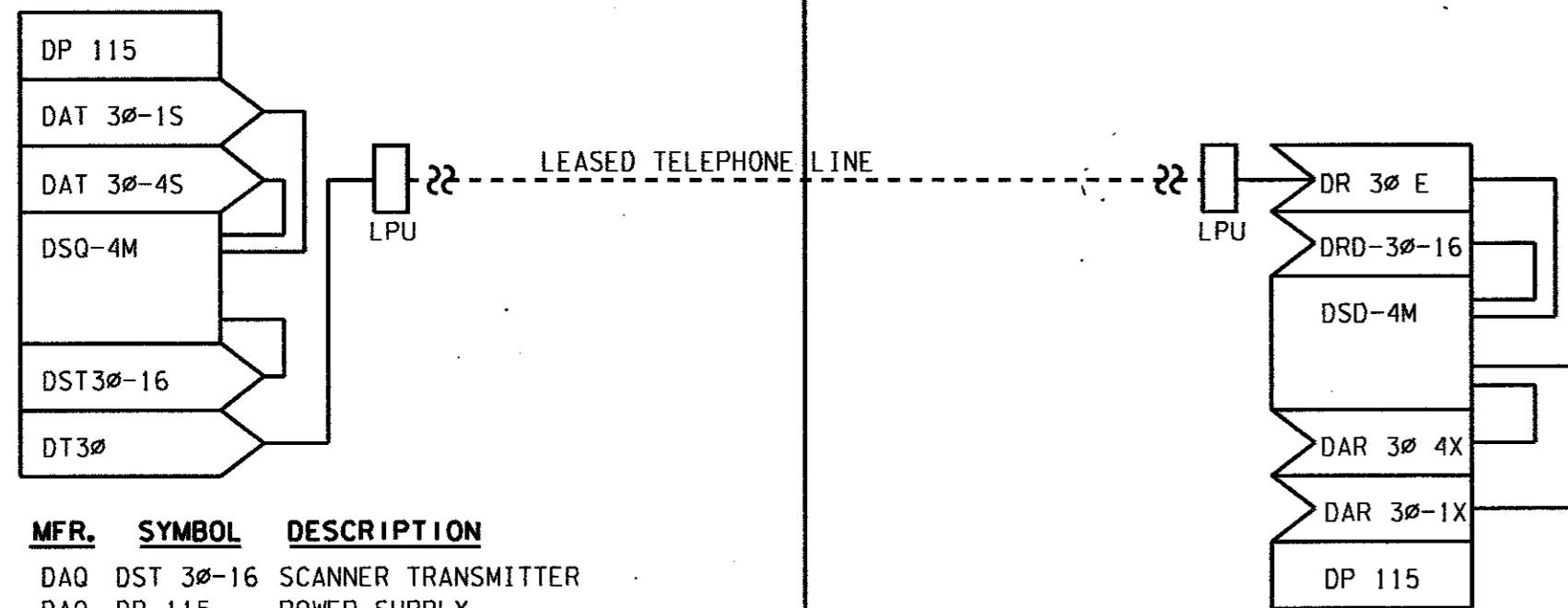
MIDWAY/BELTLINE LIFT STATION ANNUNCIATION DETAIL

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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION ELECTRICAL DETAILS			
<b>Carter &amp; Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Date	04-05-96
Designed	J. Webb	Checked	R. Porter
Drawn	J. Webb	Approved	J. Lindner
		Job No.	93327601D
		Sheet	58 of 63



MIDWAY/BELTLINE LIFT STATION  
(KELLYWAY CIRCLE)

SERVICE CENTER  
(WESTGROVE)

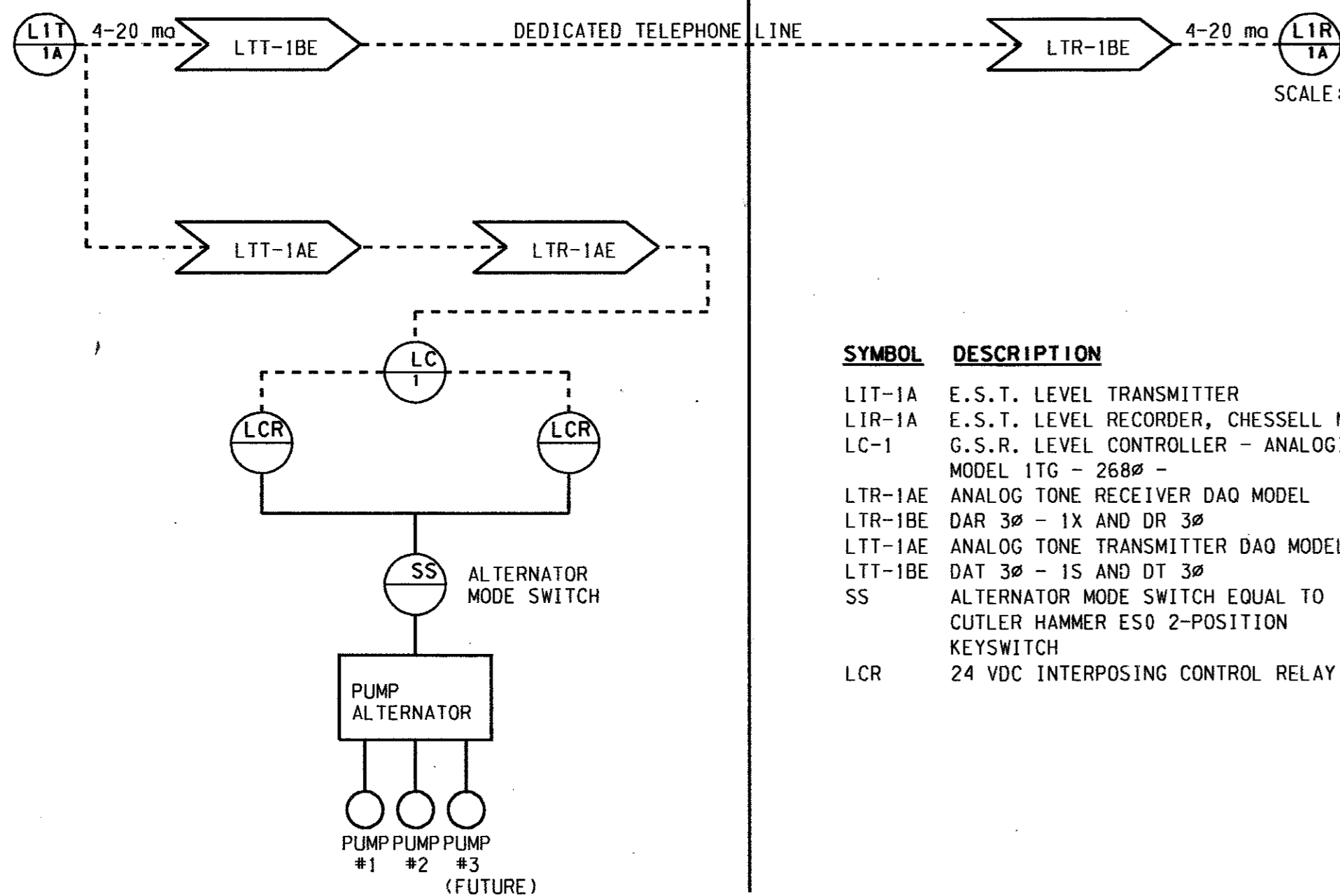


MFR.	SYMBOL	DESCRIPTION
DAQ	DST 30-16	SCANNER TRANSMITTER
DAQ	DP 115	POWER SUPPLY
DAQ	DT 30	FSK TRANSMITTER
DAQ	DR 30	FSK RECEIVER
DAQ	DAT 30-1S	ANALOG TRANSMITTER
DAQ	DAT 30-4S	ANALOG TRANSMITTER
DAQ	DAR 30-1X	ANALOG RECEIVER
DAQ	DAR 30-4X	ANALOG RECEIVER
DAQ	DSD-4M	SEQUENCER MODULE
DAQ	DSO-4M	SEQUENCER MODULE
DAQ	LPU	LINE ISOLATION/LINE SURGE PROTECTION UNIT
DAQ	DX11	MOUNTING RACK

1 TELEMETRY DISTRIBUTION DIAGRAM  
SCALE: NO SCALE

MIDWAY/BELTLINE LIFT STATION  
(KELLYWAY CIRCLE)

SERVICE CENTER  
(WESTGROVE)



SYMBOL	DESCRIPTION
LIT-1A	E.S.T. LEVEL TRANSMITTER
LIR-1A	E.S.T. LEVEL RECORDER, CHESELL MODEL 390
LC-1	G.S.R. LEVEL CONTROLLER - ANALOGIC MODEL 1TG - 2680 -
LTR-1AE	ANALOG TONE RECEIVER DAO MODEL
LTR-1BE	DAR 30 - 1X AND DR 30
LTT-1AE	ANALOG TONE TRANSMITTER DAO MODEL
LTT-1BE	DAT 30 - 1S AND DT 30
SS	ALTERNATOR MODE SWITCH EQUAL TO CUTLER HAMMER ES0 2-POSITION KEYSWITCH
LCR	24 VDC INTERPOSING CONTROL RELAY

2 LEVEL LOOP SCHEMATIC  
SCALE: NO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER/DESCRIPTION	VOLTAGE	LAMPS		MOUNTING	REMARKS
			NO.	TYPE		
A	HUBBELL EWL 042R-TP DR-E METALUX VT240DR-LE3-WL-WR LITHONIA DMW-240ART-PES TAMPERPROOF, WATERPROOF FLUORESCENT, GASKETED	277	2	F40/CW	SURFACE WALL OR CLG.	EMERG. BATTERY PACK ON FIXTURES AS INDICATED
B	HOLOPHANE WL3K-250HP-27-HP HPS WALL PACK, DIE CAST ALUMINUM HOUSING	277	1	250W HHP5 MOG, CLEAR	SURFACE WALL	
C	LITHONIA TWL-50S-277-SF HPS WALL MTD. BRACKET, DIE CAST HOUSING	277	1	50W 568 CLEAR	SURFACE WALL	
D	LITHONIA KAD 400S R3 277 SP04 SF P07 HPS CUT-OFF LUMINAIRE, PHOTO CONTROL, FUSED	277	1	400W HPS CLEAR	30' 50 STEEL POLE	
E	HOLOPHANE WL3K-250HP-27-HP WET LOCATION COMPACT FLUORESCENT	277	1	13W COMPACT FLUORESCENT	RECESSED	

ELECTRICAL LOAD ANALYSIS

LOAD DESCRIPTION	CONNECTED LOAD (KVA)	DEMAND MULTI.	DESIGN LOAD (KVA)	REMARKS
LIGHTING	4.8	1.25	6.0	
RECEPTACLES	1.4	1.0	1.4	
HEATING	31.0	1.25	38.75	
COOLING	-	-	-	
MOTORS	136.6	1.0	136.6	INCLUDES FUTURE PUMP P-3
LARGEST MOTOR	60	1.25	75	
GENERAL LOADS	3.1	1.0	3.1	
TOTAL LOAD	236.9		260.9	
TOTAL AMPS	285.0		313.9	

PUMP CONTROLLER "MCCA" \*

CT.	LOAD DESCRIPTION	HP	AMP	BKR	SIZE	POLES	CONDUIT/WIRE
1	PUMP P-1	60	77	225	175	3	3*2, #6 GND, 11/4" C.
2	PUMP P-2	60	77	225	175	3	3*2, #6 GND, 11/4" C.
3	PUMP P-3 (FUTURE)	60	77	225	175	3	3*2, #6 GND, 11/4" C.

REMARKS  
1. STARTERS ARE FULL VOLTAGE NON-REVERSING UNLESS OTHERWISE NOTED WITH PILOT LIGHTS, HOA SWITCH, AND LABELS. PROVIDE CONTROL POWER TRANSFORMER. PUMPS CONTROLLED BY LEVEL TRANSMITTERS/FLOATS.  
2. REFER TO MECHANICAL EQUIPMENT FEEDER SCHEDULE FOR BREAKER SIZES NOT LISTED.  
3. CONFIRM PUMP SIZES AND OVERCURRENT PROTECTION, FEEDER, AND STARTER SIZES WITH PUMP SUPPLIER PRIOR TO INSTALLATION.  
\* FURNISHED AS A PACKAGE WITH PUMPS BY PUMP SUPPLIER.

SWITCHBOARD "MSB" SCHEDULE

CT.	LOAD DESCRIPTION	SWITCH	FUSE	POLES	CONDUIT/WIRE
1	PUMP CONTROLLER "MCCA"	400	250	3	2 1/2" C/3-250 KCM, #4 GND
2	PAN 'HA'	100	100	3	1 1/2" C/4-#2, #6 GND
3	F-EXHAUST FAN (7.5 HP)	100	20	3	3/4" C/3#12, #12 GND
4	SPACE ONLY	100	20	-	
5	SPACE ONLY	100	20	-	
6	SPACE ONLY	100	20	-	

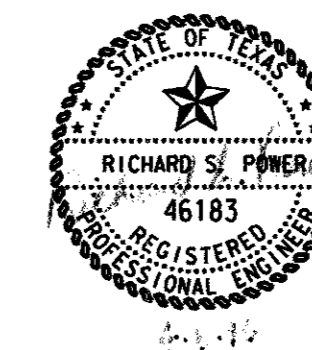
PANEL 'HA' SCHEDULE

NO	DESCRIPTION	BKR/P	A	B	C	BKR/P	DESCRIPTION	NO
1	LIGHTS - GROUND LEVEL	20/1	1000	499		15/3	HOIST (1HP)	2
3	LIGHTS - LOWER LEVEL	20/1		1300	499	15/3		4
5	LIGHTS - EXTERIOR	30/1			2015	15/3		6
7	TRANS. 'TA' 30 KVA	50/3	10000	1191		20/3	AGITATOR	8
9				10000	1191			10
11					10000	1191		12
13	SPARE	20/1	5000			30/3	UNIT HEATER	14
15	SPARE	20/1		5000				16
17	SPARE	20/1			5000			18
19	SPARE	20/1				20/1	SPARE	20
21	SPARE	20/1				20/1	SPARE	22
23	SPARE	20/1				20/1	SPARE	24
25	SPACE ONLY	1P				1P	SPACE ONLY	26
27	SPACE ONLY	1P				1P	SPACE ONLY	28
29	SPACE ONLY	1P				1P	SPACE ONLY	30
31								32
33								34
35								36
37								38
39								40
41								42
DEMAND AMPS: 74.4		TOTALS		17,690	20,690	18,705	CONNECTED KVA: 57.1	DEMAND KVA: 61.8

PANEL 'LA' SCHEDULE

NO	DESCRIPTION	BKR/P	A	B	C	BKR/P	DESCRIPTION	NO
1	GENERAL RECEPTACLES	20/1	720	500		20/1	SECURITY ALARM CONTROL PNL	2
3	GENERAL RECEPTACLES	20/1		720	500	20/1	PUMP CONTROLLER CONTROL PWR	4
5	FAN F2 (1/6 HP)	15/1			528	15/1	FAN F3 (1/6 HP)	6
7	MOTORIZED LOUVERS	20/1	600	500		20/1	IRRIGATION CONTROLLER	8
9	TELEMETRY PANEL	20/1		1000	600	20/1	TELEPHONE BOARD	10
11	DOOR OPERATOR (1/2 HP)	20/1			1176	20/1	SUMP PUMP "SP-P" (1/2 HP)	12
13	SUMP PUMP "SP-2" (1/2 HP)	20/1	1176	2250		30/2	EW-1(4.5 KW)	14
15	SPARE	20/1						16
17	EF-4 (500 W)	20/1		2250	500	20/1	SPARE	18
19	SPACE ONLY	1P				1P	SPACE ONLY	20
21	SPACE ONLY	1P				1P	SPACE ONLY	22
23	SPACE ONLY	1P				1P	SPACE ONLY	24
25								26
27								28
29								30
31								32
33								34
35								36
37								38
39								40
41								42
DEMAND AMPS: 44.0		TOTALS		5,746	5,070	3,908	CONNECTED KVA: 14.7	DEMAND KVA: 15.8

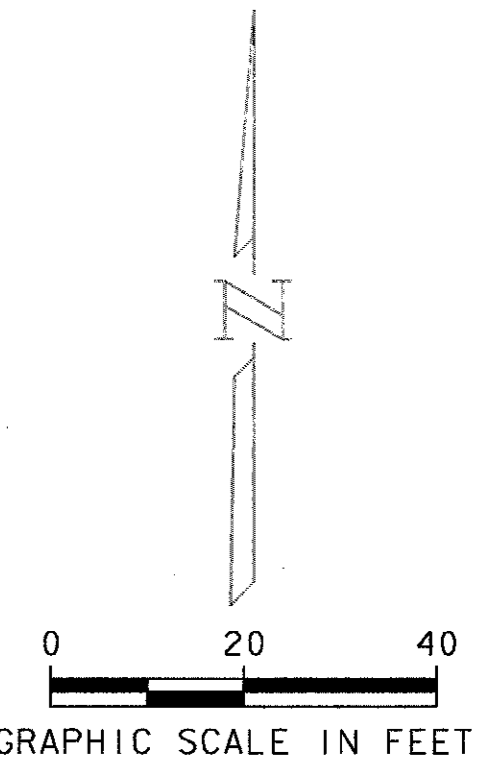
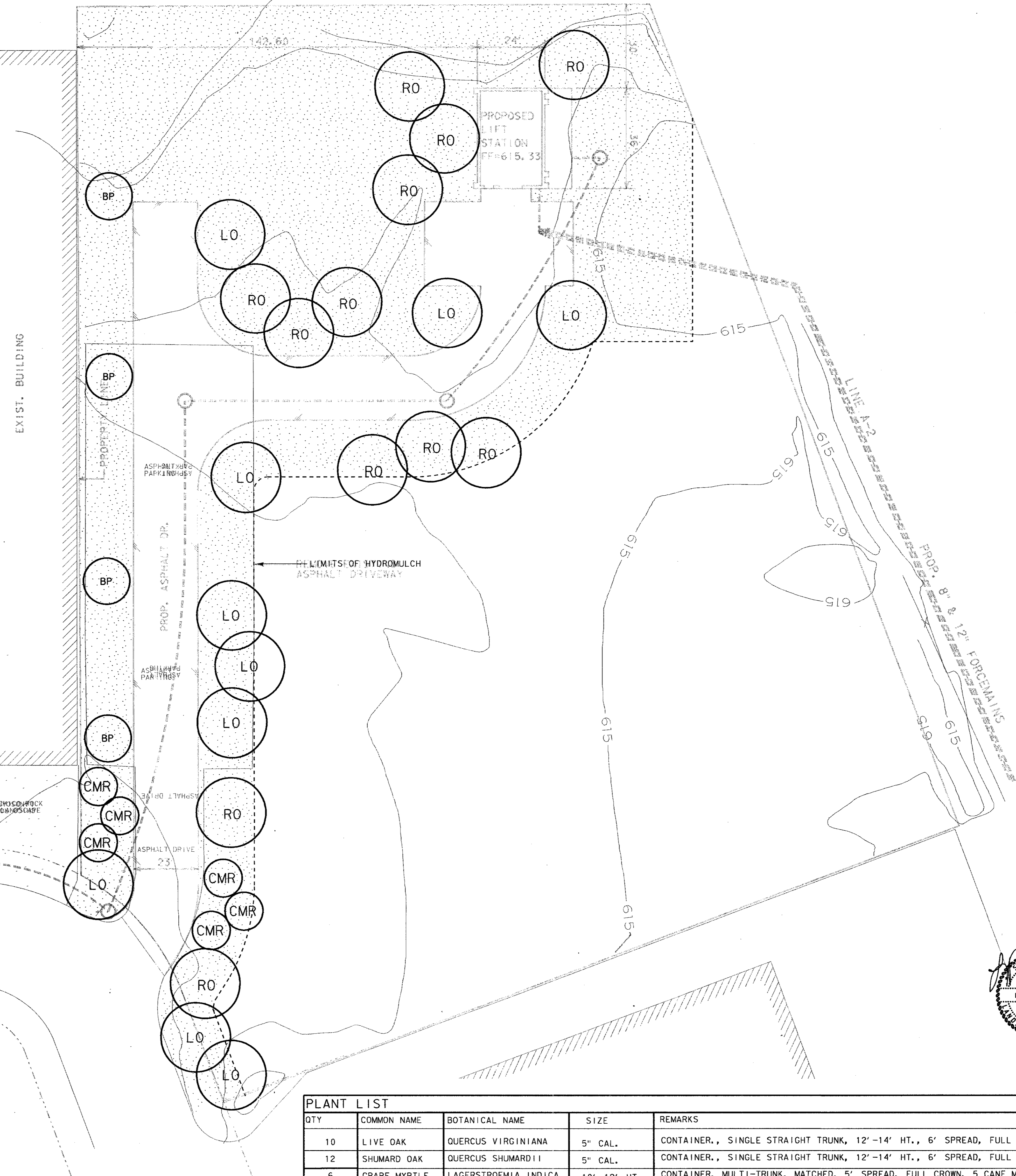
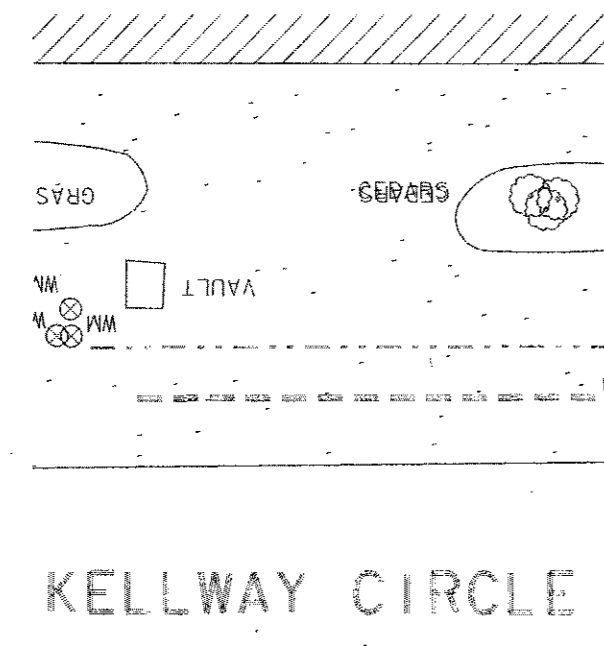
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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION ELECTRICAL SCHEDULES			
<b>Carter &amp; Burgess</b> Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-6951			
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Drawn	J. WEBB	Approved	J. LINDNER
		Sheet	59 of 63



- LEGEND**
- LO LIVE OAK
  - RO RED OAK
  - BP BRADFORD PEAR
  - CMR CRAPE MYRTLE- RED
  - HYDROMULCH
  - LIMIT OF HYDROMULCH

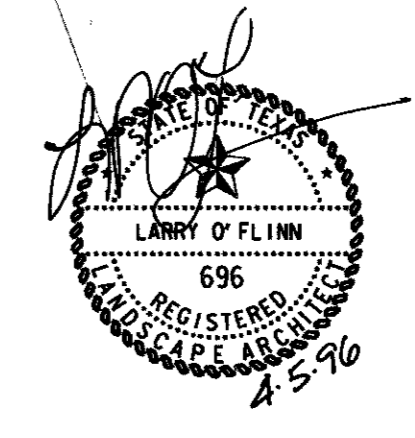
**PLANTING NOTES:**

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK AMONG THE LANDSCAPE CONTRACTOR, THE IRRIGATION CONTRACTOR AND OTHER CONTRACTORS ON SITE.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITIES AND SHALL BE RESPONSIBLE FOR THEIR REPAIR IF DAMAGED.
3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN. FIELD COLLECTED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER.
4. ONLY TOPSOIL FREE OF NOXIOUS PLANTS EXCAVATED FROM PITS AND BEDS WILL BE ACCEPTABLE FOR USE AS BACKFILL MATERIAL AS SPECIFIED.
5. ALL TREES PLANTED ON SLOPES SHALL BE PLANTED SO THAT TRUNKS ARE STRAIGHT AND UPRIGHT. TREE WELLS WILL BE CAREFULLY MADE SO THAT DOWNHILL LIP OF TREE WELL FORMS A BASIN TO CATCH AND HOLD WATER.
6. AFTER PLANTING, ALL OAK SPECIES (LIVE OAK, BUR OAK, RED OAK) SHALL HAVE THEIR TRUNKS SPRAYED WITH A LINDANE BORER PREVENTATIVE SOLUTION. SOLUTION SHALL BE CAREFULLY APPLIED SO THAT FOLIAGE IS NOT SPRAYED.
7. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A STAND OF GRASS AS STATED IN THE SPECIFICATIONS, FOR THE AREAS DESIGNATED ON THE PLANS.
8. CONTRACTOR SHALL STAKE ALL TREE LOCATIONS PRIOR TO INSTALLATION. OWNER SHALL APPROVE STAKING BEFORE PLANTING.
9. REFER TO PLANTING DETAILS.



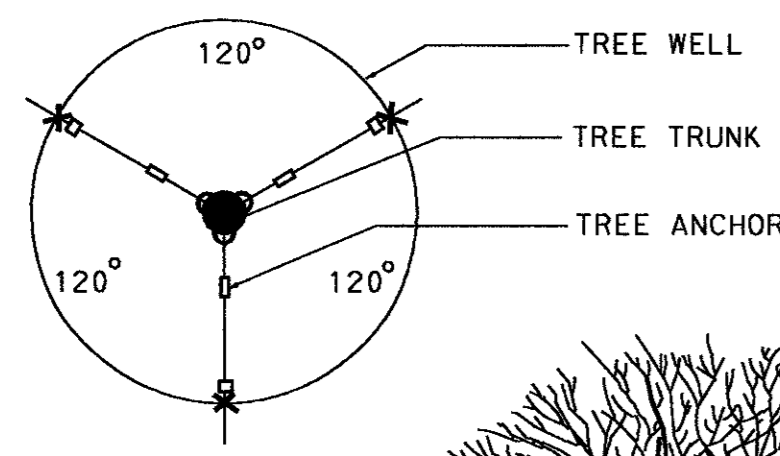
- LEGEND**
- COORDINATE POINT NUMBER
  - EXISTING ELEVATION
  - PROPOSED ELEVATION
  - PROPOSED CONTOUR
  - EXISTING CONTOUR

PLANT LIST				
QTY	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
10	LIVE OAK	QUERCUS VIRGINIANA	5" CAL.	CONTAINER, SINGLE STRAIGHT TRUNK, 12'-14' HT., 6' SPREAD, FULL CROWN
12	SHUMARD OAK	QUERCUS SHUMARDII	5" CAL.	CONTAINER, SINGLE STRAIGHT TRUNK, 12'-14' HT., 6' SPREAD, FULL CROWN
6	CRAPE MYRTLE	LAGERSTROEMIA INDICA 'TUSCARORA'	10'-12' HT.	CONTAINER, MULTI-TRUNK, MATCHED, 5' SPREAD, FULL CROWN, 5 CANE MINIMUM
4	BRADFORD PEAR	PYRUS CALLERYANA	3/2" CAL.	CONTAINER, SINGLE STRAIGHT TRUNK, 8'-10' HT.
33,025 SF	COMMON BERMUDA	CYNODON DACTYLON		HYDROSEED



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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION LANDSCAPE ARCHITECTURAL SITE PLAN			
<b>Carter Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment.</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7550 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
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Job No.:	93327601D		Sheet
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REVISIONS: 1. 04/05/96, 2. 04/05/96, 3. 04/05/96, 4. 04/05/96, 5. 04/05/96, 6. 04/05/96, 7. 04/05/96, 8. 04/05/96, 9. 04/05/96, 10. 04/05/96, 11. 04/05/96, 12. 04/05/96, 13. 04/05/96, 14. 04/05/96, 15. 04/05/96, 16. 04/05/96, 17. 04/05/96, 18. 04/05/96, 19. 04/05/96, 20. 04/05/96, 21. 04/05/96, 22. 04/05/96, 23. 04/05/96, 24. 04/05/96, 25. 04/05/96, 26. 04/05/96, 27. 04/05/96, 28. 04/05/96, 29. 04/05/96, 30. 04/05/96, 31. 04/05/96, 32. 04/05/96, 33. 04/05/96, 34. 04/05/96, 35. 04/05/96, 36. 04/05/96, 37. 04/05/96, 38. 04/05/96, 39. 04/05/96, 40. 04/05/96, 41. 04/05/96, 42. 04/05/96, 43. 04/05/96, 44. 04/05/96, 45. 04/05/96, 46. 04/05/96, 47. 04/05/96, 48. 04/05/96, 49. 04/05/96, 50. 04/05/96, 51. 04/05/96, 52. 04/05/96, 53. 04/05/96, 54. 04/05/96, 55. 04/05/96, 56. 04/05/96, 57. 04/05/96, 58. 04/05/96, 59. 04/05/96, 60. 04/05/96, 61. 04/05/96, 62. 04/05/96, 63. 04/05/96, 64. 04/05/96, 65. 04/05/96, 66. 04/05/96, 67. 04/05/96, 68. 04/05/96, 69. 04/05/96, 70. 04/05/96, 71. 04/05/96, 72. 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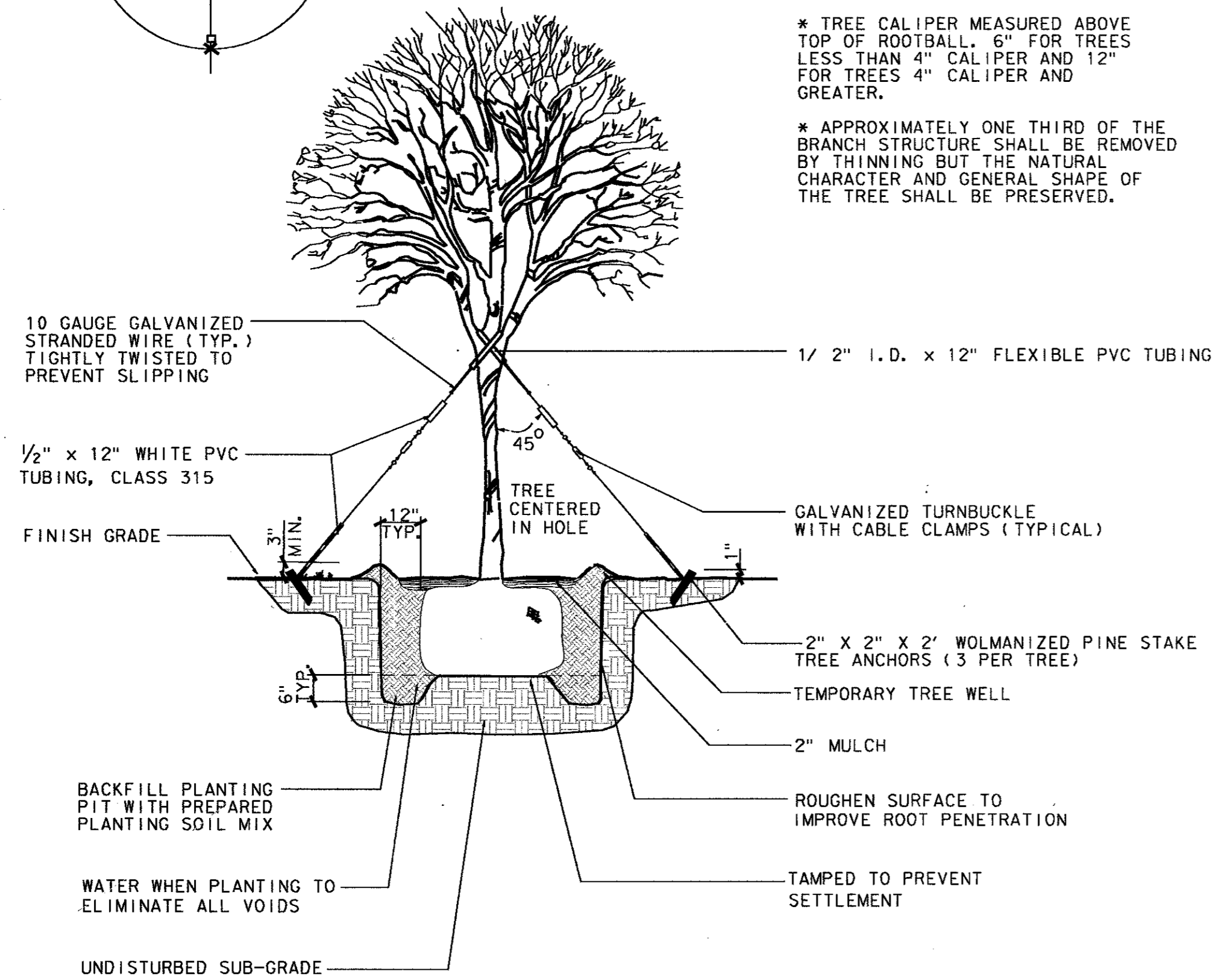


NOTES:

\* TEMPORARY TREE ANCHORS AND GUY WIRES TO BE REMOVED AFTER ONE FULL GROWING SEASON.

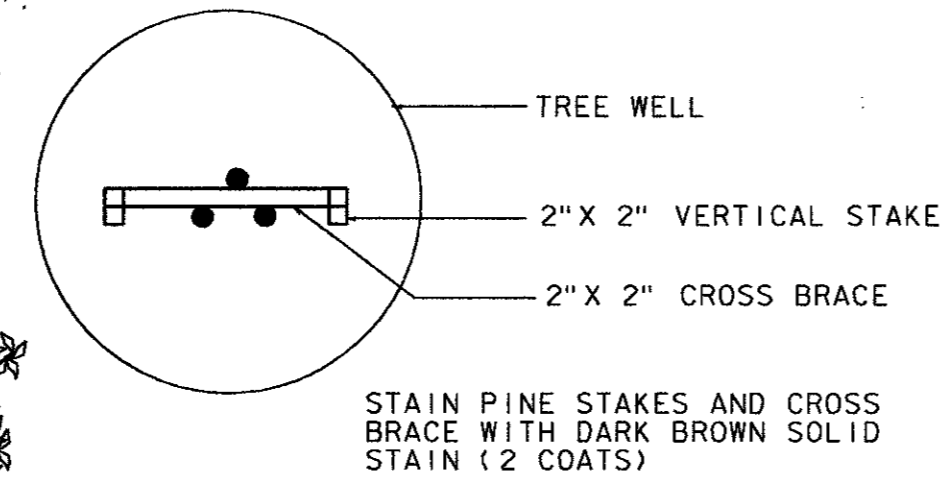
\* TREE CALIPER MEASURED ABOVE TOP OF ROOTBALL, 6" FOR TREES LESS THAN 4" CALIPER AND 12" FOR TREES 4" CALIPER AND GREATER.

\* APPROXIMATELY ONE THIRD OF THE BRANCH STRUCTURE SHALL BE REMOVED BY THINNING BUT THE NATURAL CHARACTER AND GENERAL SHAPE OF THE TREE SHALL BE PRESERVED.

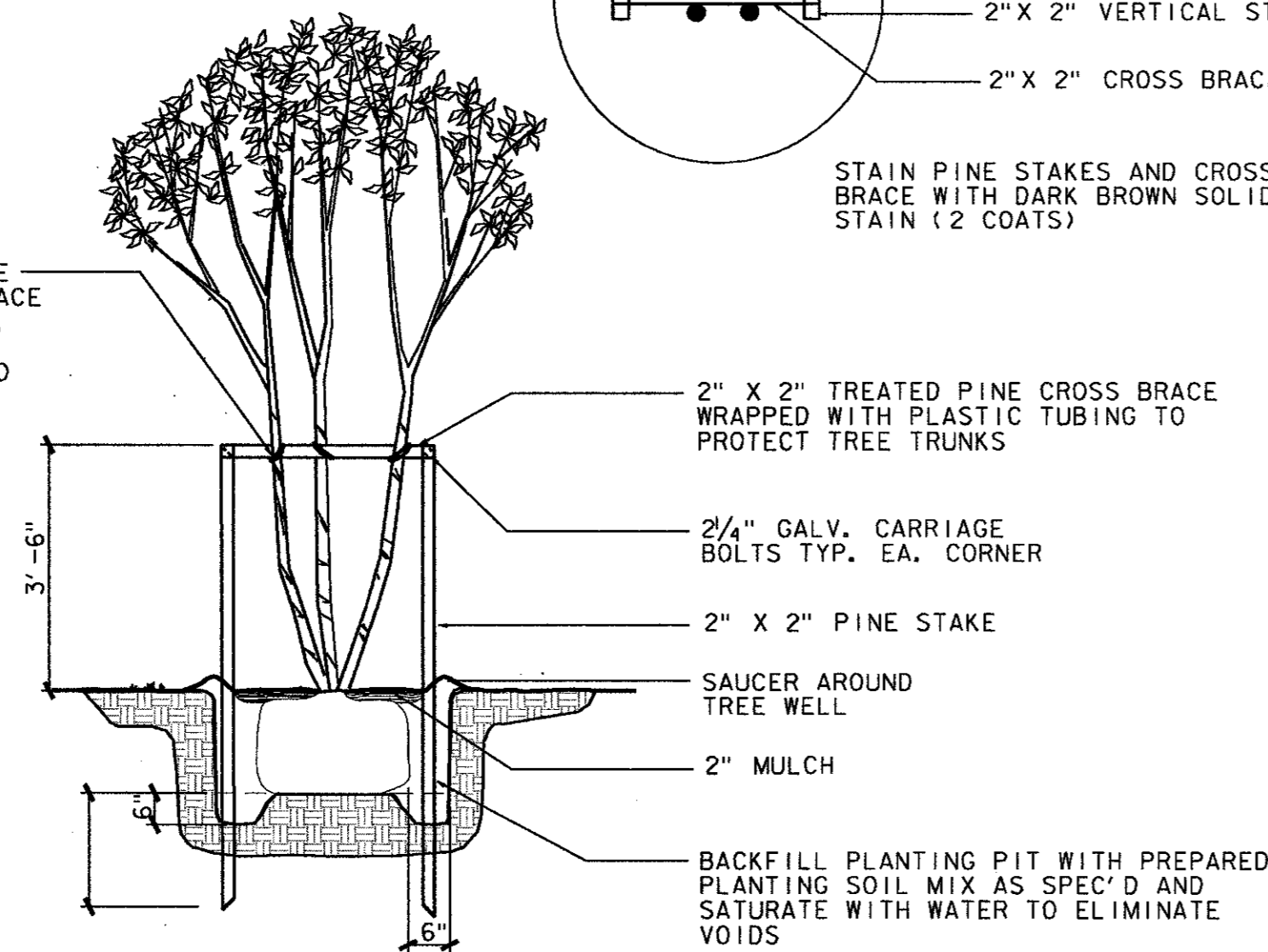


**TREE PLANTING & STAKING DETAIL**

NOT TO SCALE



TREE TRUNKS SHALL BE SECURED TO CROSS BRACE USING 12 GAUGE GALV. WIRE WITH 1/2" I.D. FLEXIBLE PVC HOSE TO PROTECT TREE TRUNKS



NOTES:

\* TEMPORARY TREE WELL, STAKES AND CROSS BRACE TO BE REMOVED AFTER ONE FULL GROWING SEASON

\* APPROXIMATELY 1/3 OF THE BRANCH STRUCTURE SHALL BE REMOVED BY THINNING, BUT THE NATURAL CHARACTER AND GENERAL SHAPE OF THE TREE SHALL BE PRESERVED.

**MULTI-TRUNK TREE PLANTING & STAKING DETAIL**

NOT TO SCALE



4			
3			
2			
1			
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION LANDSCAPE ARCHITECTURAL SITE DETAILS			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Government</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7560 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	1"=20'	Date
04-05-96			
Designed	B. Luck	Checked	J. Lindner
Job No.	93327601D	Drawn	B. Luck
Approved	J. Lindner	Sheet	61 of 63

**TOWN OF ADDISON  
IRRIGATION SPECIFICATIONS**

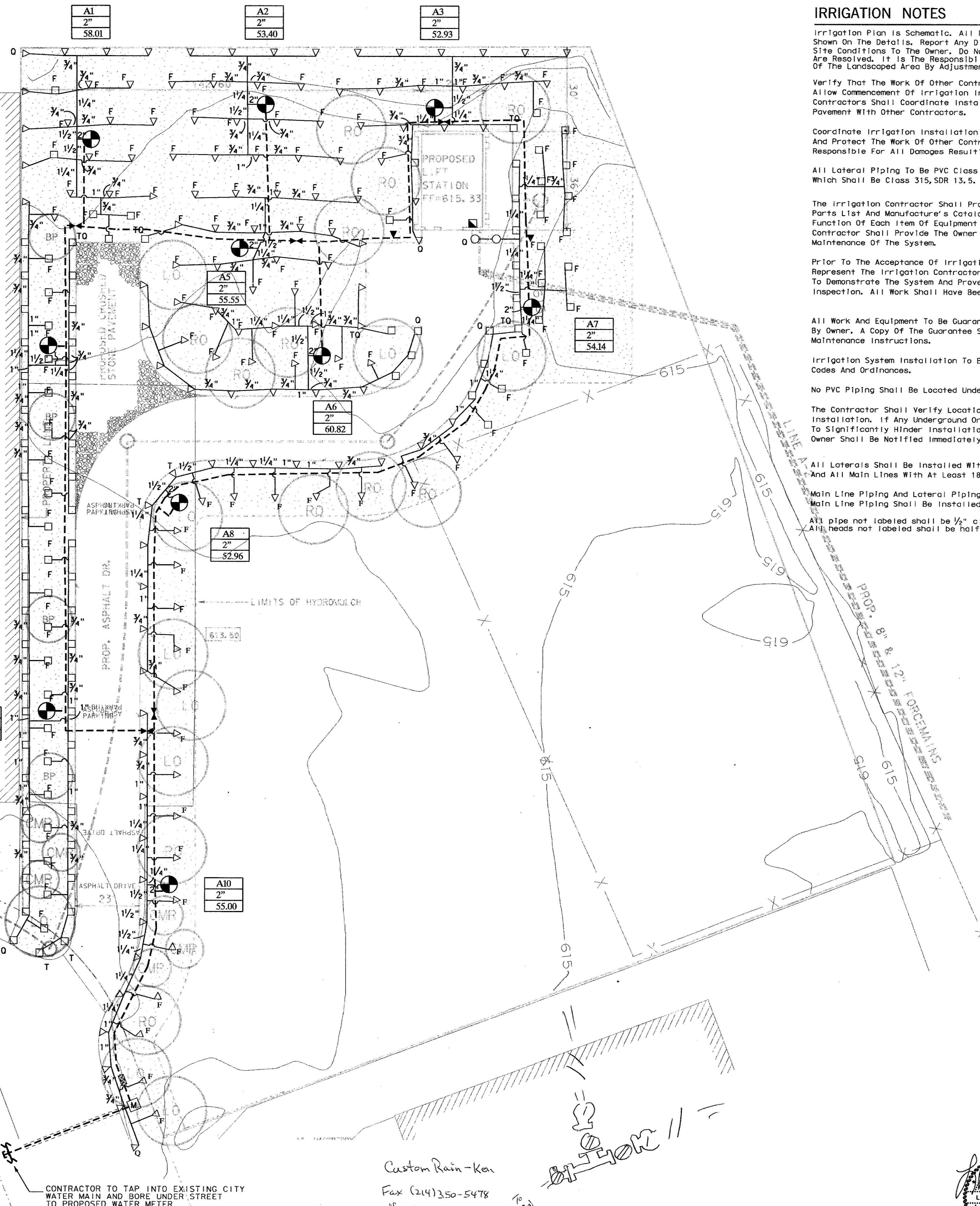
- ALL MAIN LINE PIPE TO BE SCHEDULE 40 BELLED PVC. PUT NOT MORE THAN TWO (2) PIPES IN ANY ONE TRENCH. CLASS 200 LATERAL PIPING IS SUBJECT TO PRIOR APPROVAL BY THE TOWN.
- FITTINGS: NO CROSSES ARE PERMITTED. SEPARATE TEES AND/OR ELBOWS BE AT LEAST 12". REDUCTION TEES ARE PREFERRED OVER USE OF REDUCER BUSHINGS. ONLY SPEARS AND/OR LASCO ARE PERMITTED. ALLOW 18" OUTSIDE OF SLEEVE BEFORE FIRST FITTING.
- WIRING: 14 GA. UF-RED-CONTROL WIRES, WHITE-GROUND. ANYTIME WIRING CHANGES DIRECTION, SUCH AS AT AN ELBOW OR TEE, ALLOW A LOOP AT LEAST ONE HAND WIDTH (10 INCHES) ALONGSIDE THE FITTING AT THAT LOCATION. ONLY CONTINUOUS WIRE RUNS ARE PERMISSIBLE UNLESS OTHERWISE APPROVED. WIRE SHOULD FOLLOW MAINLINE WHERE POSSIBLE AND LAY ALONG A SINGLE SIDE NOT CROSSING OVER LATERAL LINES.
- USE KING CONNECTORS FOR ALL WIRE SPLICES. ALLOW AT LEAST 36" OF PIGTAILED WIRE AT EACH SPLICE. ALL VALVE SPLICES ARE TO BE HOUSED IN STANDARD (LARGE) RECTANGULAR PLASTIC VALVE BOXES. ALL FIELD SPLICES ARE TO BE IN 10" ROUND PLASTIC VALVE BOXES.
- ONLY WEATHERMATIC 11000 SERIES PLASTIC VALVES ARE PERMITTED. THEY ARE TO BE LOCATED WITHIN STANDARD (LARGE) RECTANGULAR PLASTIC VALVE BOXES WITH 4"-6" OF PEA GRAVEL PLACED UNDERNEATH THE VALVE IN SUCH A MANNER AS TO PREVENT SOIL INFILTRATION INTO THE BOX.
- ONLY BUCKNER MODEL 30A SINGLE LUG "QVC" ARE PERMITTED. THEY ARE TO BE CONNECTED TO A THREADED FITTING, TEFLON PASTE AND APPROPRIATE LENGTH GRAY SCHEDULE 80 NIPPLES AND SCHEDULE 40 FITTINGS ARE TO BE USED. HOUSE QVC IN A 10" ROUND PLASTIC VALVE BOX.
- ALL HEADS ARE TO BE ATTACHED TO THREADED FITTINGS VIA 6" POLYETHYLENE NIPPLES CUT TO THE APPROPRIATE LENGTH. ALL NOZZLE SIZES WILL BE DESIGNATED ON THE PLANS.
- POP-UPS: ONLY TORO 570Z SERIES ARE PERMITTED UNLESS OTHERWISE NOTED. INSTALL 3/4" ABOVE FINISHED GRADE. TURF 4" (INCLUDES TREE BUBBLER WITH 1/2" TREE AREAS). USE TORO SB-PC NOZZLES. VERY LOW GROUND COVER LESS THAN 6" MATURE HT. 7'-6". GROUND COVER AND LOW GROWING SHRUBS 12" HP FUNNY PIPE FOR 12" HP INSTALLATIONS WITH OWNER APPROVAL IS ACCEPTABLE IF CONDITIONS WARRANT.
- BUBBLERS: BED AREAS ONLY. USE TORO 500 SERIES STREAM OR FLOOD BUBBLERS.
- ROTARIES: ONLY HUNTER PGP SERIES ARE PERMITTED UNLESS OTHERWISE NOTED. INSTALL 3/4" ABOVE FINISHED GRADE.
- RISERS: USE TYPE M COPPER WITH SOLDERED MALE ENDS FOR TORO 570-S SHRUB ADAPTERS AND FEMALE ENDS TO ATTACH TO SHORT POLYETHYLENE NIPPLES SCREWED INTO THREADED FITTINGS. OWNER RESERVES THE RIGHT TO DETERMINE PLACEMENT OF RISERS VERSUS POP-UPS.
- ONLY HERSEY MVR METERS WITH 17" LAY LENGTH AND (3) BRASS FLANGES ARE ACCEPTABLE. STAINLESS STEEL BOLTS AND NUTS MUST BE USED IN THE INSTALLATION ALONG WITH NEOPRENE GASKETS. HOUSE IN APPROPRIATE SIZE (TO BE DETERMINED BY OWNER) CONCRETE BOX WITH LID. TO BRING BOX TO GROUND LEVEL. USE BRICKS OR PAVERS, AND BACKFILL INSIDE BELOW METER BASE WITH AT LEAST 6" OF PEA GRAVEL. CONNECTION TO MAIN MUST BE DONE BY THE TOWN'S WATER DEPARTMENT AND ALL TAP MATERIALS MUST BE APPROVED BY THEM.
- ONLY FEBCO 805-Y DOUBLE CHECK ASSEMBLIES ARE TO BE USED. CONNECT TO METER FLANGE USING TEFLON PASTE AND GRAY SCHEDULE 80 NIPPLE AT LEAST 6" IN LENGTH. HOUSE IN APPROPRIATE SIZE (TO BE DETERMINED BY OWNER) RECTANGULAR PLASTIC VALVE BOX. SEE ABOVE METER INSTALLATION INSTRUCTIONS AND FOLLOW SAME WITH THE EXCEPTION OF USING PLASTIC VALVE BOX EXTENSIONS FOR INCREASED HEIGHT. CONNECT IRRIGATION MAINLINE TO DCA USING TEFLON PASTE AND PVC MALE ADAPTER.
- FEMALE THREADED PLASTIC BALL VALVES WITH POSITIVE T-HANDLE CUT OFF MUST BE INSTALLED. HOUSE IN STANDARD (LARGE) RECTANGULAR PLASTIC VALVE BOX AND FOLLOW METER BOX INSTALLATION INSTRUCTIONS FOR DCA ASSEMBLY. USE TO ISOLATE EVERY 200' OF MAINLINE.
- ONLY IRRITROL MC PLUS SERIES CONTROLLER IS PERMITTED UNLESS OTHERWISE APPROVED AND/OR NOTED. NICAD BATTERIES MUST BE SUPPLIED WITH EVERY INSTALLATION. CONTROLLERS ARE TO BE INSTALLED ON THE APPROPRIATE PEDESTAL AFFIXED TO A PERMANENT CONCRETE PAD VIA (4) BOLTS. ALL WIRING IS TO ENTER THE PEDESTAL VIA GRAY PVC SWEEP ELBOWS EXTENDING THROUGH THE PAD. CONTROL WIRING AND 120-V SERVICES ARE TO BE SEPARATED WITH EACH HAVING ITS OWN ACCESS ELBOW. CHECK TOWN'S ELECTRICAL CODES FOR PROPER 120-V SERVICE INSTALLATION. ALL CONTROLLERS ARE TO BE PERMANENTLY WIRED FOR QUICK ATTACHMENT OF IRRITROL RVC UNIT. USE IRRITROL CABLE ADP-1. ALL CONTROLLERS ARE TO PROPERLY AND PERMANENTLY WIRED WITH A MINICLON FREEZE SENSOR OR EQUAL.
- USE CLEAN AND APPROVED LOAM TO BACKFILL ALL PIPE TO A DEPTH OF AT LEAST 6" ABOVE TOP OF PIPE. ALL HEADS AND BOXES ARE TO BACKFILL TO GRADE WITH LOAM. REMAINDER OF TRENCH MAY BE FILLED USING CLEAN AND APPROVED SOIL. NO ROCKS GREATER THAN 1" ARE ALLOWED. COMPACT TRENCHES TO ALLEVIATE SETTLING.
- ALL SLEEVES WILL BE SCHEDULE 40 PVC WITH SIZE AND APPROPRIATE LOCATION NOTED ON THE PLAN. ALL PIPING UNDERNEATH PAVING INCLUDING SIDEWALKS MUST BE SLEEVED.
- USE APPROPRIATE AND APPROVED PVC SOLVENT. AVOID EXCESSIVE USE AND WIPE ALL JOINTS AND FITTINGS CLEAN.
- THE INSTALLER IS RESPONSIBLE FOR RESETTING HEAD AND/OR BOX HEIGHT DUE TO SETTLING. CONTRACTOR MUST OBTAIN A WORKMANSHIP WARRANTY FOR (1) YEAR FROM DATE OF COMPLETION.

MODIFY PER CITY CENTRAL CONTROL STANDARD

**IRRIGATION LEGEND**

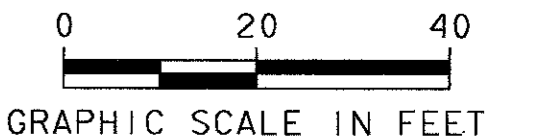
- TORO 570Z MPR 4" POP-UP SPRAY HEAD w/ #10 NOZZLE
- TORO 570Z MPR 4" POP-UP SPRAY HEAD w/ #12 NOZZLE
- TORO 570Z MPR 4" POP-UP SPRAY HEAD w/ #15 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES VALVE w/ XPR PRESSURE REGULATOR, 2"
- IRRIGATION SYSTEM LATERAL PIPING, SIZE AS NOTED
- IRRIGATION SYSTEM MAINLINE PIPING, 2"
- == SCHEDULE 40 PVC SLEEVE, 6"
- ⊠ FEBCO 805-Y DOUBLE CHECK ASSEMBLY, 2"
- M 1/2" WATER METER
- BALL VALVE, 1/2"
- ▼ 3/4" QUICK COUPLING VALVE
- RAIN MASTER 'EVOLUTION' 12 STATION CONTROLLER, WALL MOUNT SYSTEM

A2 - STATION  
2" - VALVE SIZE  
XX.XX - GPM

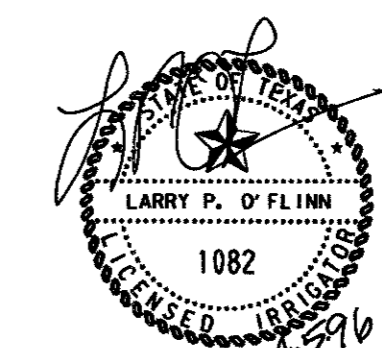


**IRRIGATION NOTES**

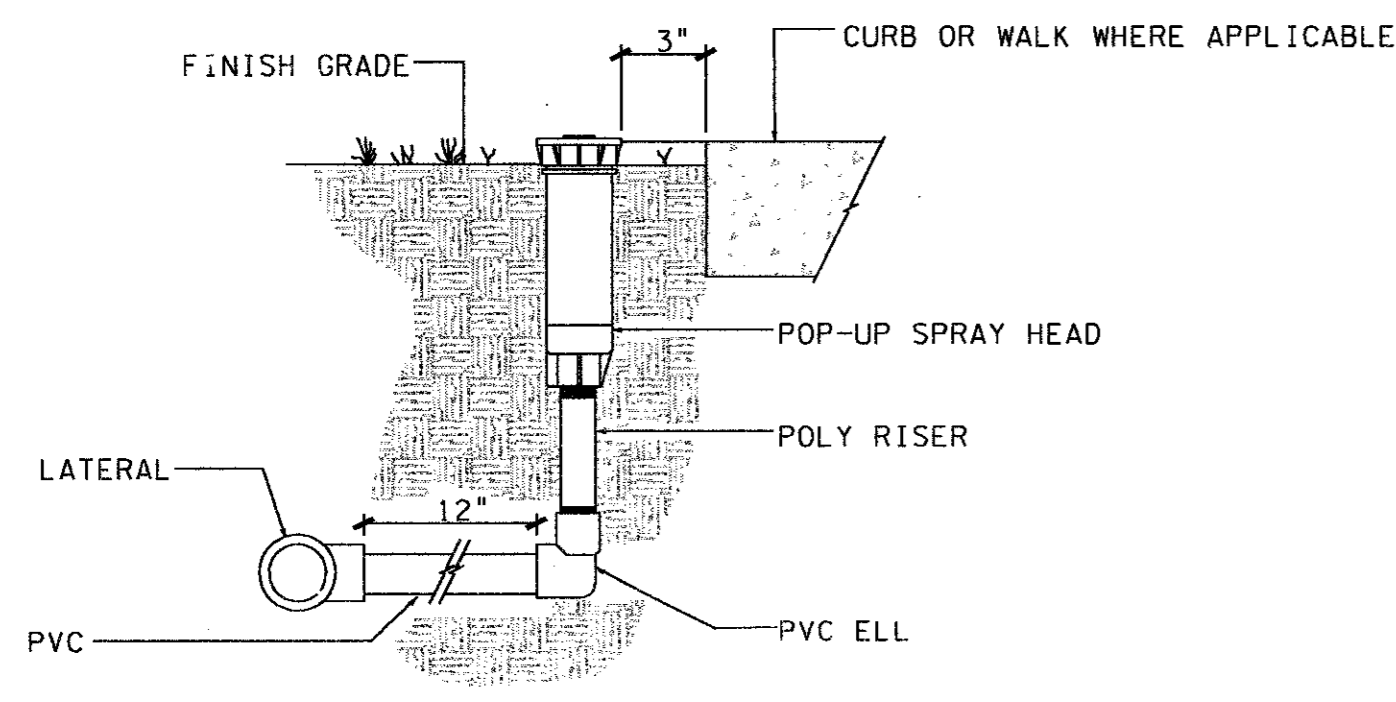
- 1. Irrigation Plan Is Schematic. All Piping Heads, Valves, Etc. Shall Be Located As Shown On The Details. Report Any Discrepancies Between Actual And Proposed Site Conditions To The Owner. Do Not Proceed With Work Until Said Discrepancies Are Resolved. It Is The Responsibility Of The Contractor To Achieve Full, Even Coverage Of The Landscaped Area By Adjustments To Head Locations Or Additions Of Heads As Necessary.
- 2. Verify That The Work Of Other Contractors/Trades Is Sufficiently Complete To Allow Commencement Of Irrigation Installation Prior To Beginning Work. Contractor Shall Coordinate Installation Of All Irrigation Sleeves Under Pavement With Other Contractors.
- 3. Coordinate Irrigation Installation With The Work Of Other Contractors/Trades And Protect The Work Of Other Contractor/Trades. Irrigation Contractor Is Responsible For All Damages Resulting From His Actions.
- 4. All Lateral Piping To Be PVC Class 200, SDR 21 With Solvent Welded Joints. Except 1/2" Pipe Which Shall Be Class 315, SDR 13.5.
- 5. The Irrigation Contractor Shall Provide The Owner With Two Copies Of The Parts List And Manufacturer's Catalog Showing Performance, Quality And Function Of Each Item Of Equipment In The System. In Addition, The Irrigation Contractor Shall Provide The Owner Written Instructions For Operation And Maintenance Of The System.
- 6. Prior To The Acceptance Of Irrigation System By Owner, A Person Qualified To Represent The Irrigation Contractor Shall Be Present At The Final Inspection To Demonstrate The System And Prove Its Performance Prior To The Inspection. All Work Shall Have Been Completed, TESTED, Adjusted And Placed
- 7. All Work And Equipment To Be Guaranteed For One Year From Date Of Acceptance By Owner. A Copy Of The Guarantee Shall Be Included In The Operation/Maintenance Instructions.
- 8. Irrigation System Installation To Be Performed In Accordance With All Pertinent Codes And Ordinances.
- 9. No PVC Piping Shall Be Located Under Tree Rootballs.
- 10. The Contractor Shall Verify Location Of All Underground Utilities Prior To Installation. If Any Underground Or Above Ground Construction Is Located As To Significantly Hinder Installation Or Function Of The Irrigation System, The Owner Shall Be Notified Immediately.
- 11. All Laterals Shall Be Installed With 12" Minimum Coverage Over Pipes At Finish Grade And All Main Lines With At Least 18" Minimum Coverage.
- 12. Main Line Piping And Lateral Piping May Be Placed In Same Trench When Possible. Main Line Piping Shall Be Installed In Bottom Of Trench With Laterals Above.
- 13. All pipe not labeled shall be 1/2" class 315 PVC.
- 14. All heads not labeled shall be half or 180° pattern.



Custom Rain-Ken  
Fax (214) 350-5478  
off. (972) 844-8042

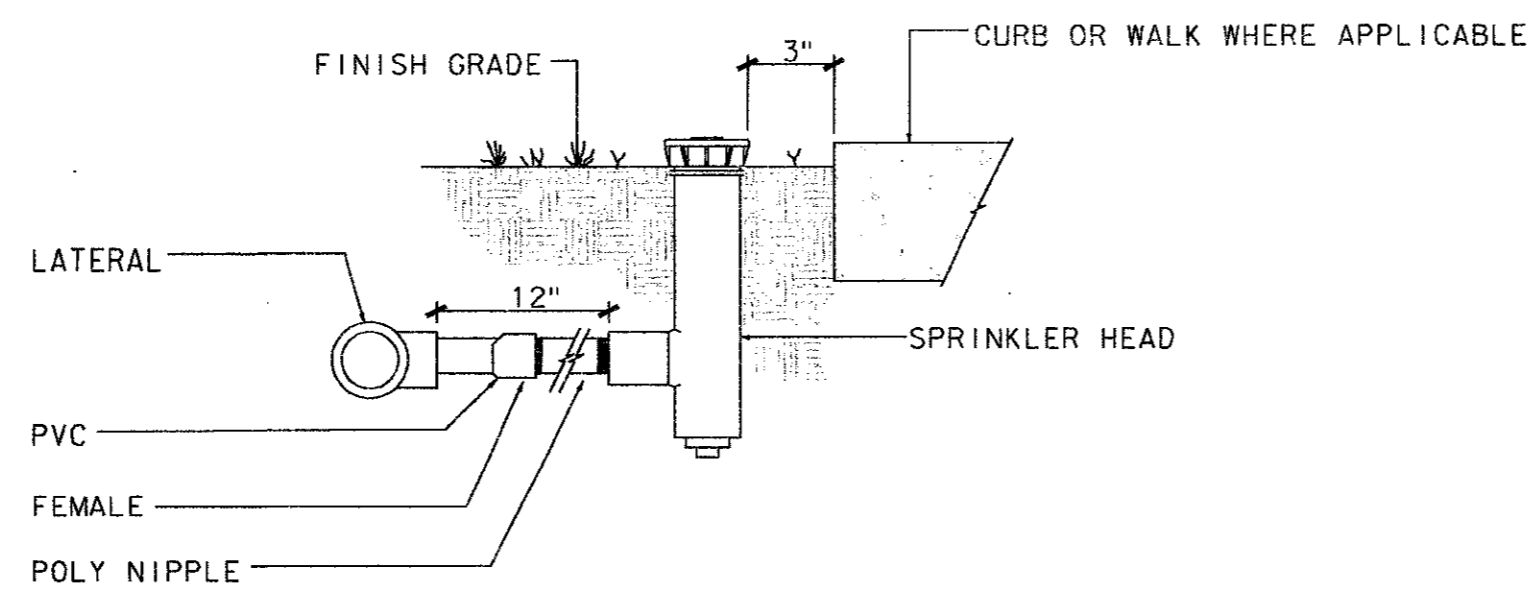


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NO.	DATE	REVISION	APPROV.
<b>TOWN OF ADDISON, TEXAS</b> <b>MIDWAY/BELTLINE SANITARY SEWER</b> <b>PHASE II</b> <b>LIFT STATION</b> <b>IRRIGATION PLAN</b>			
<b>Carter &amp; Burgess</b> <small>Consultants in Engineering, Architecture, Planning and the Environment</small> <b>CARTER &amp; BURGESS, INC.</b> <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit#	Scale#	1"=20'	Date 04-05-96
Designed	B. Luck	Checked	J. Lindner Job No. 93327601D
Drawn	B. Luck	Approved	J. Lindner Sheet 62 of 63



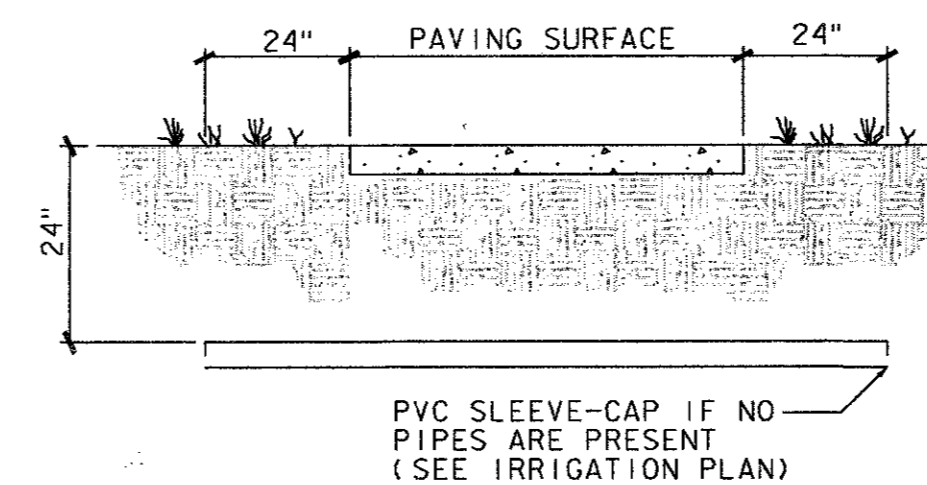
**TURF POP-UP SPRAY AND ROTOR HEAD DETAIL**

NOT TO SCALE



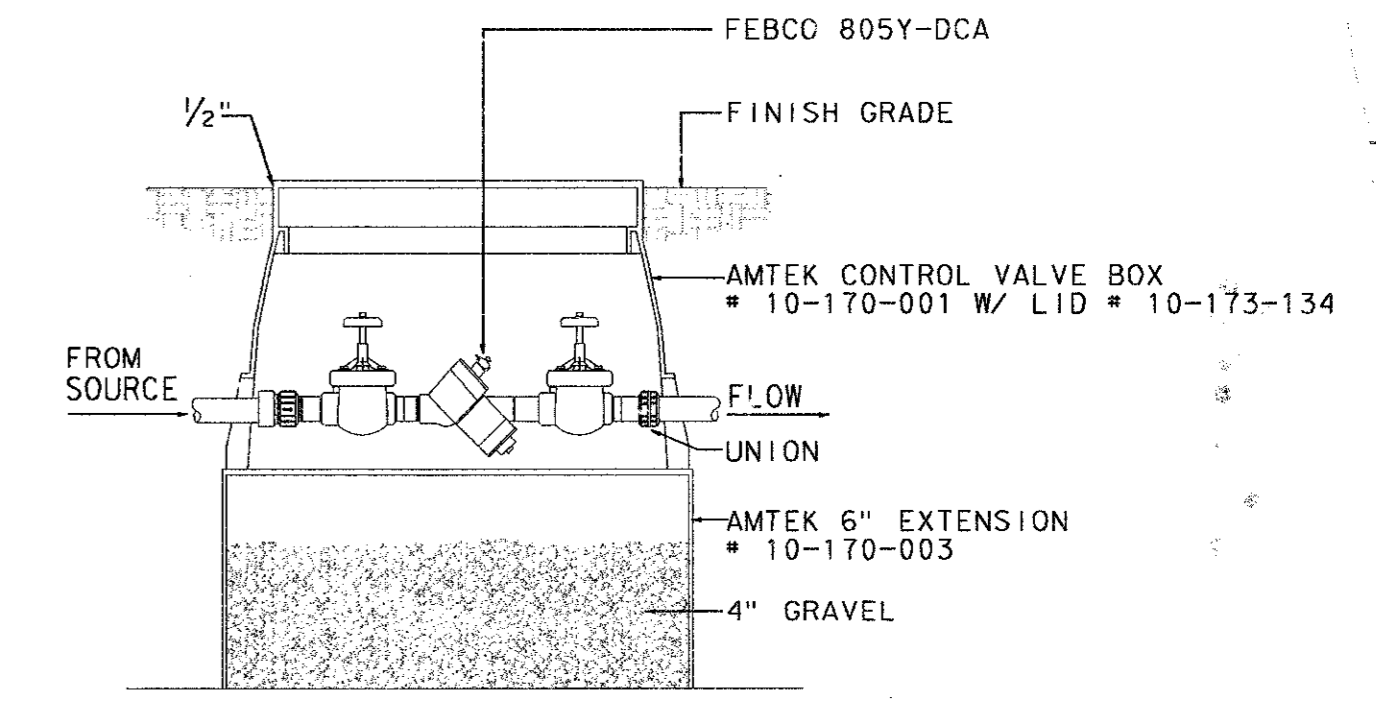
**HIGH POP-UP SPRAY HEAD DETAIL**

NOT TO SCALE



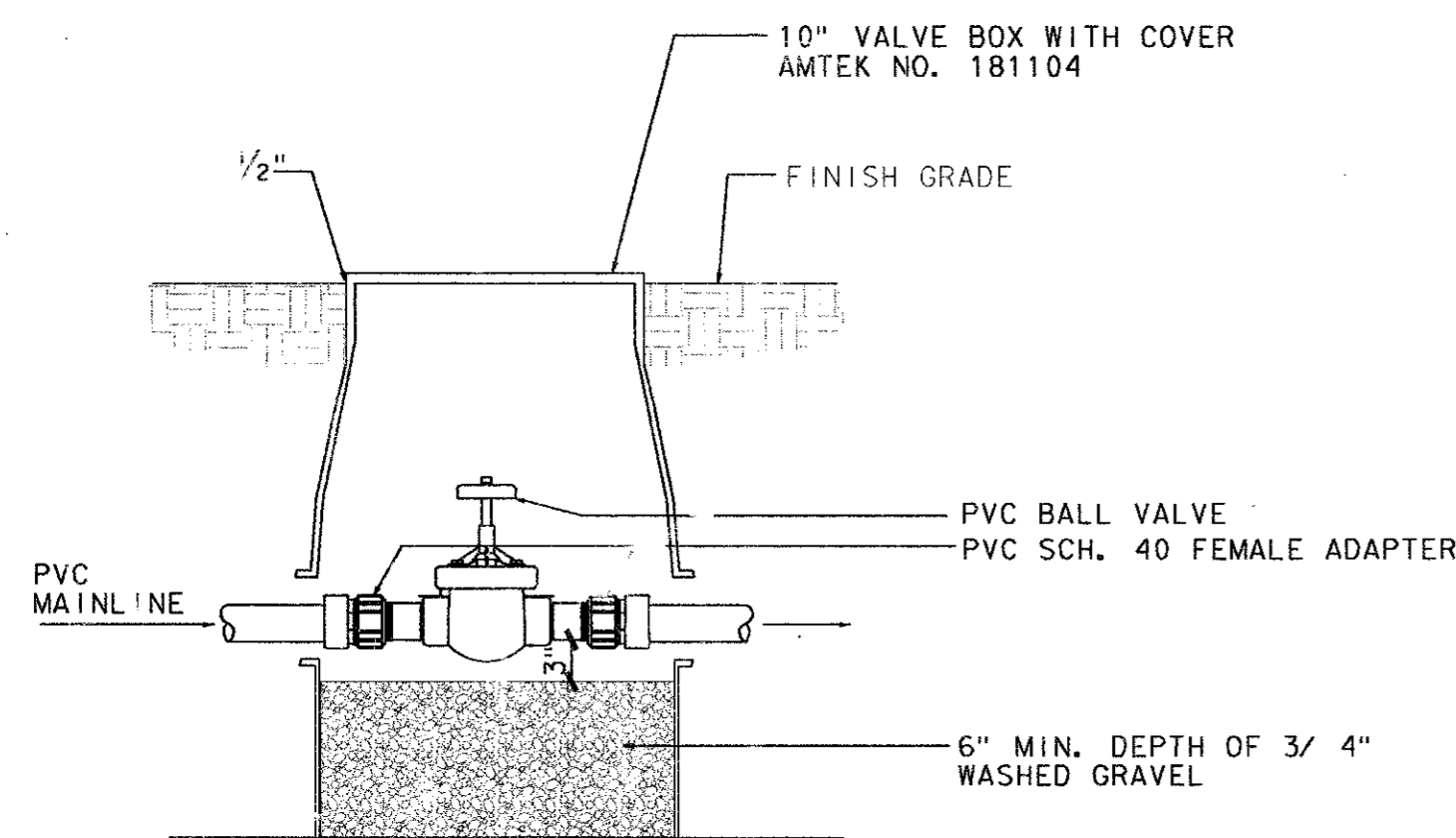
**SLEEVE DETAIL**

NOT TO SCALE



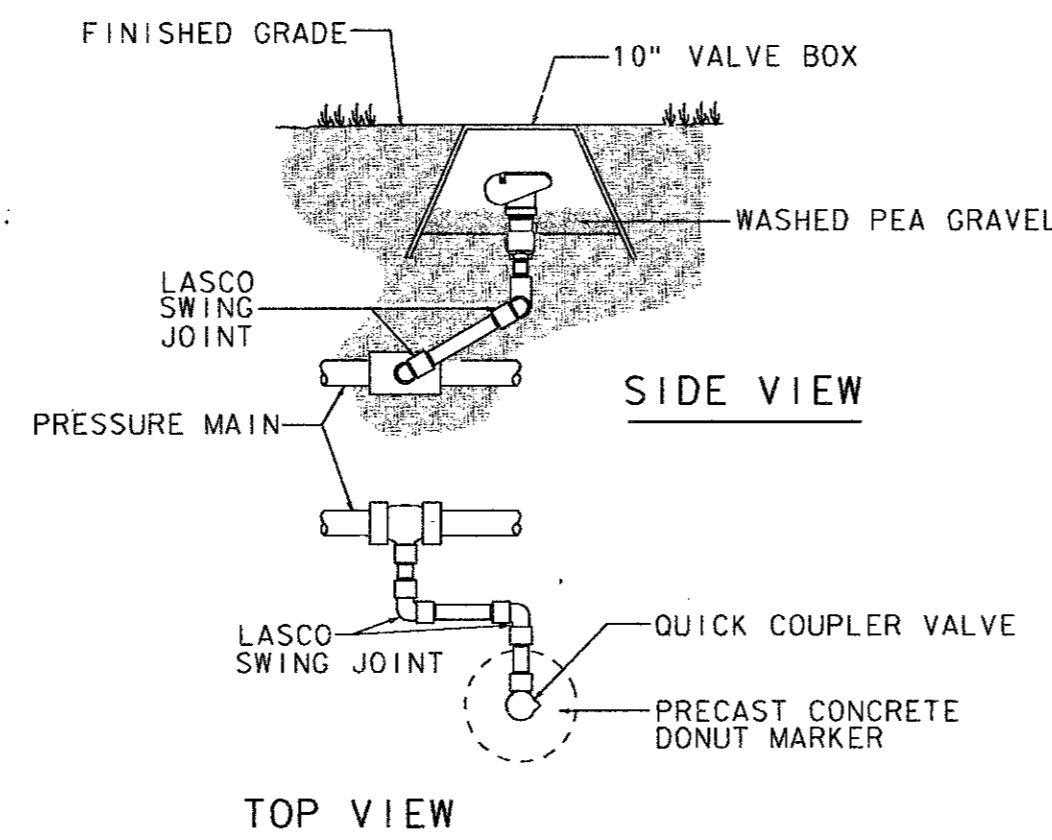
**BACKFLOW PREVENTION DETAIL**

NOT TO SCALE



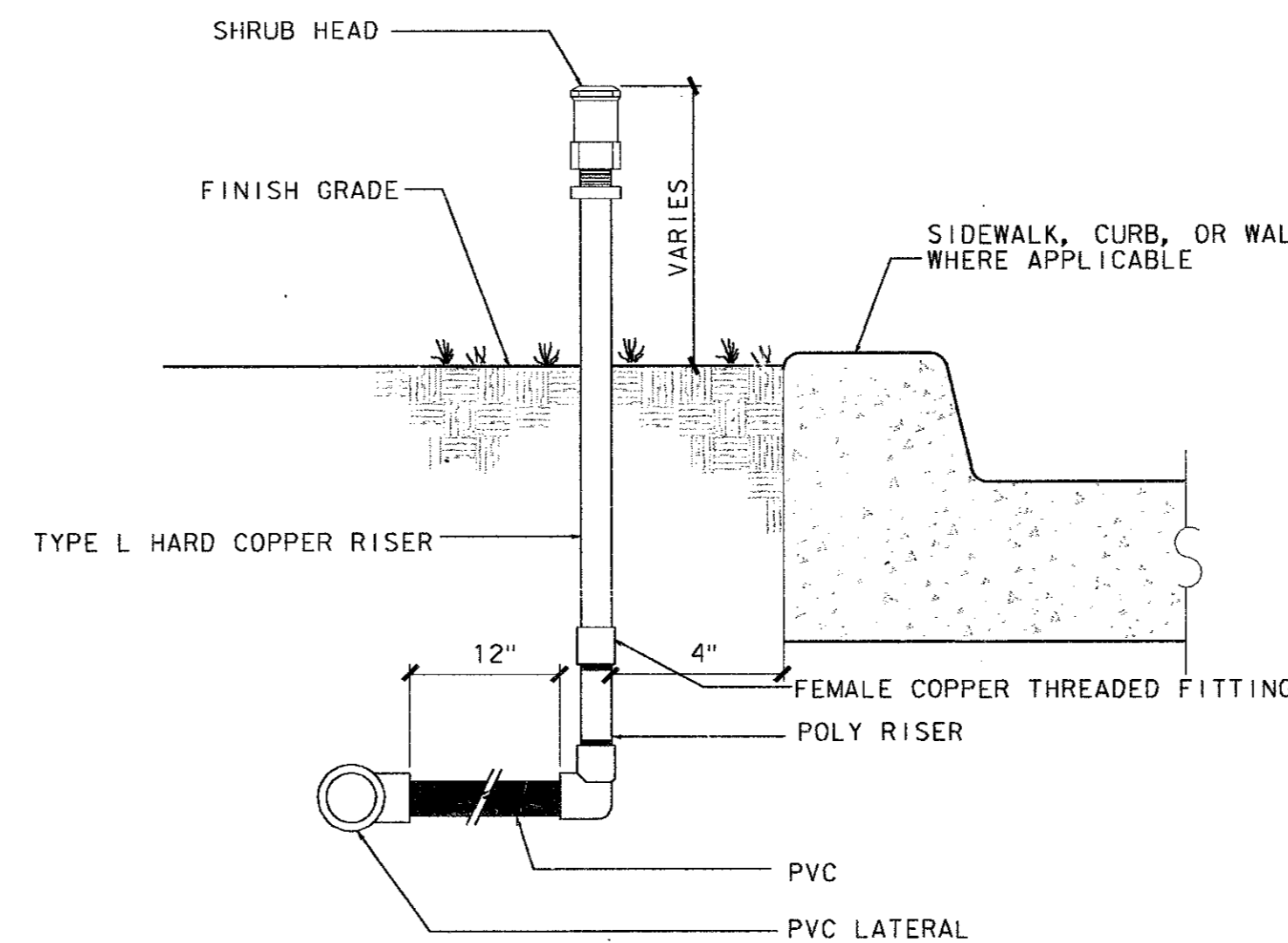
**ISOLATION GATE VALVE DETAIL**

NOT TO SCALE



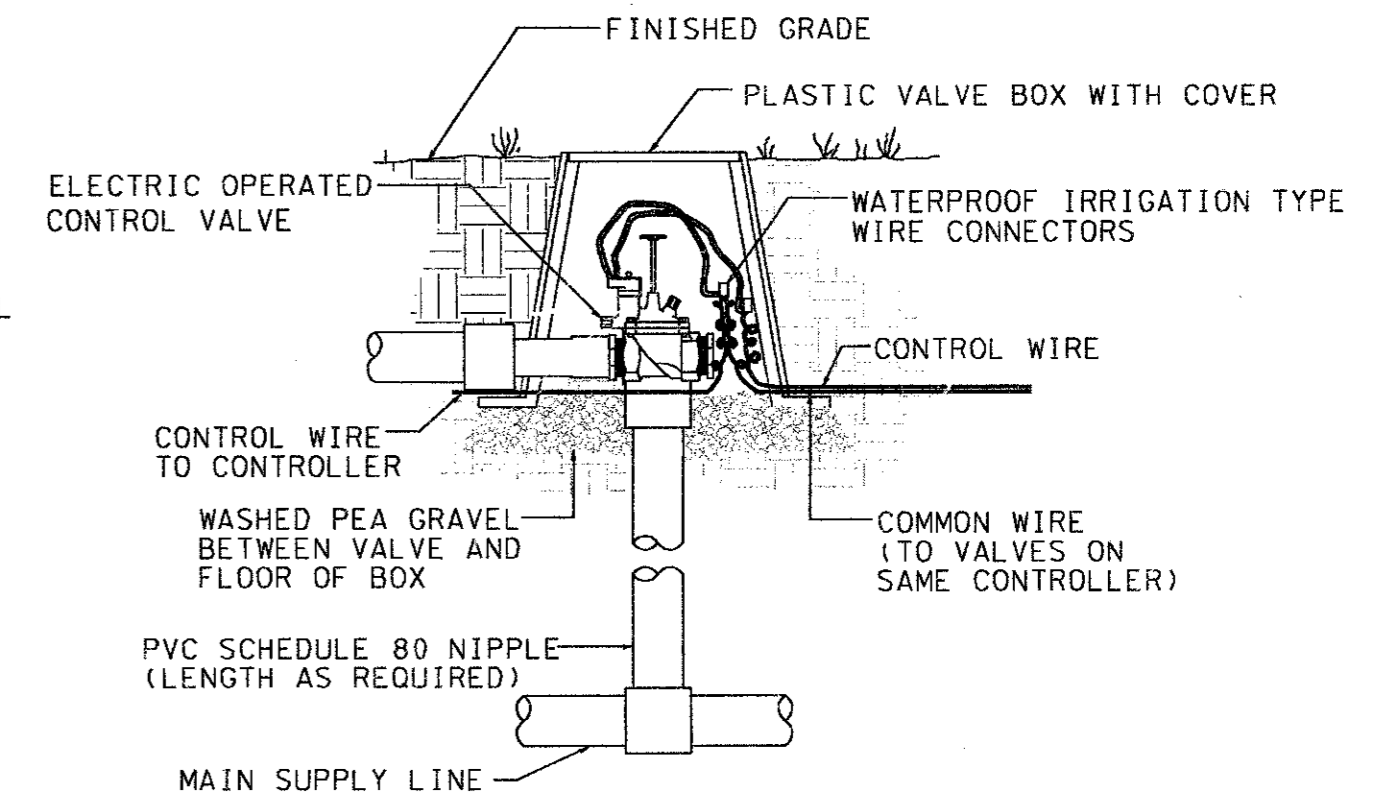
**QUICK COUPLING VALVE DETAIL**

NOT TO SCALE



**SHRUB HEAD DETAIL**

NOT TO SCALE

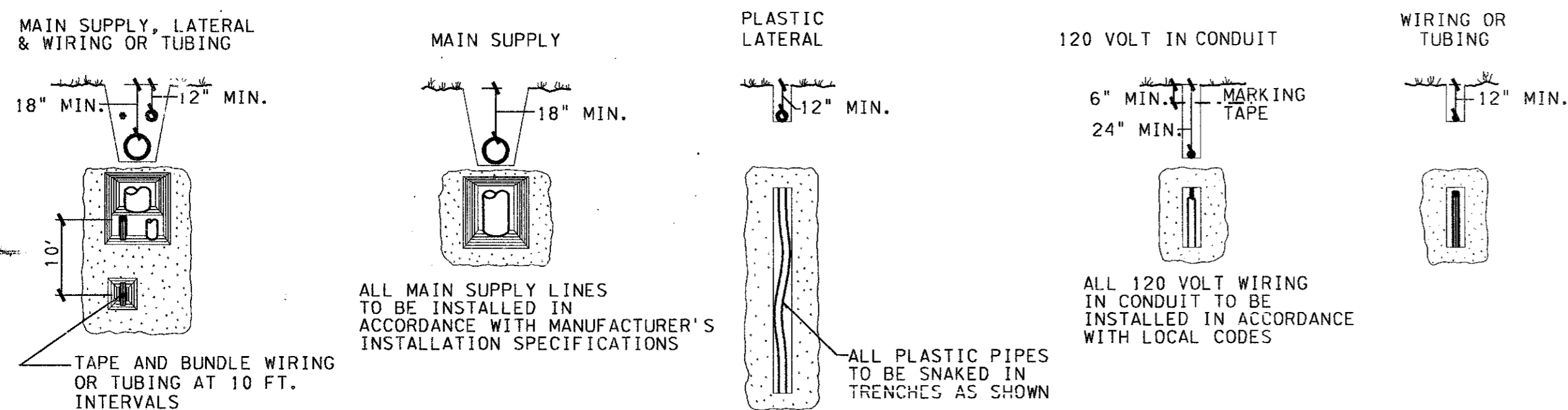


**SOLENOID VALVE DETAIL**

NOT TO SCALE

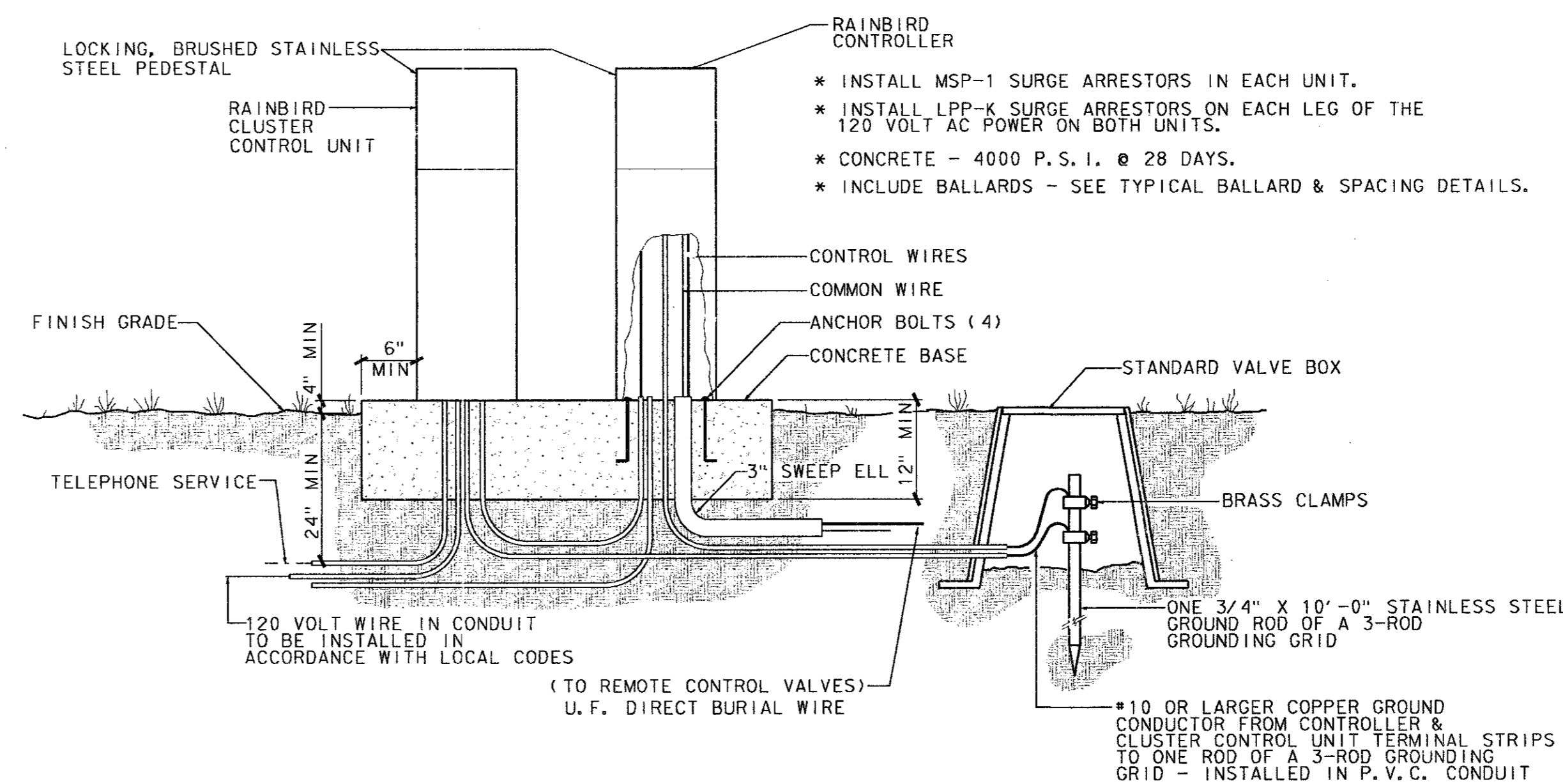
**NOTES**

1. ALL WIRE TO BE INSTALLED PER LOCAL CODE.
2. TAPE AND BUNDLE WIRE EVERY TEN FEET.
3. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND 1/2" PIPE 15 TIMES.)
4. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. ORIENT RECTANGULAR VALVE BOXES SO THAT THE EDGES ARE PARALLEL TO ADJACENT WALKS, CURBS, ETC.



**TRENCHING DETAILS**

NOT TO SCALE



**TYPICAL CONTROLLER & CL. CONTROL UNIT PAD DETAILS**

NOT TO SCALE

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2			
1			
NO.	DATE	REVISION	APP'V.

TOWN OF ADDISON, TEXAS

MIDWAY/BELTLINE SANITARY SEWER PHASE II

LIFT STATION IRRIGATION DETAILS

**Carter Burgess**

Consultants in Engineering, Architecture, Planning and the Environment  
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