CONSTRUCTION PLANS

FOR

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

PW#2009-11

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

APRIL 2010

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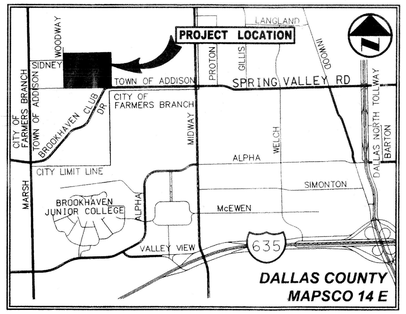

VICINITY MAP
(NOT TO SCALE)

FOR

Dallas Independent School District

3700 ROSS AVE.
DALLAS, TX 75204
(972) 925-3700

PREPARED BY

Pacheco Koch
Consulting Engineers

8350 N. CENTRAL EXPWY., SUITE 1000
DALLAS, TEXAS 75206
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

PH. 972.235.3031
FAX 972.235.9544

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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APPROVED FOR CONSTRUCTION
Town of Addison
Public Works Department
APPROVED BY: Clay Emmert
DATE: 4-9-2010

All recommendations for the adequacy of these plans are based on the information supplied to the Town of Addison. Approval of these plans by the Town of Addison does not constitute a representation or warranty of the work of the Design Engineer.

NO.	DATE	REVISION

GEORGE H.W. BUSH ELEMENTARY SCHOOL

LMCWHORTER
04/08/2010 – 12:02PM
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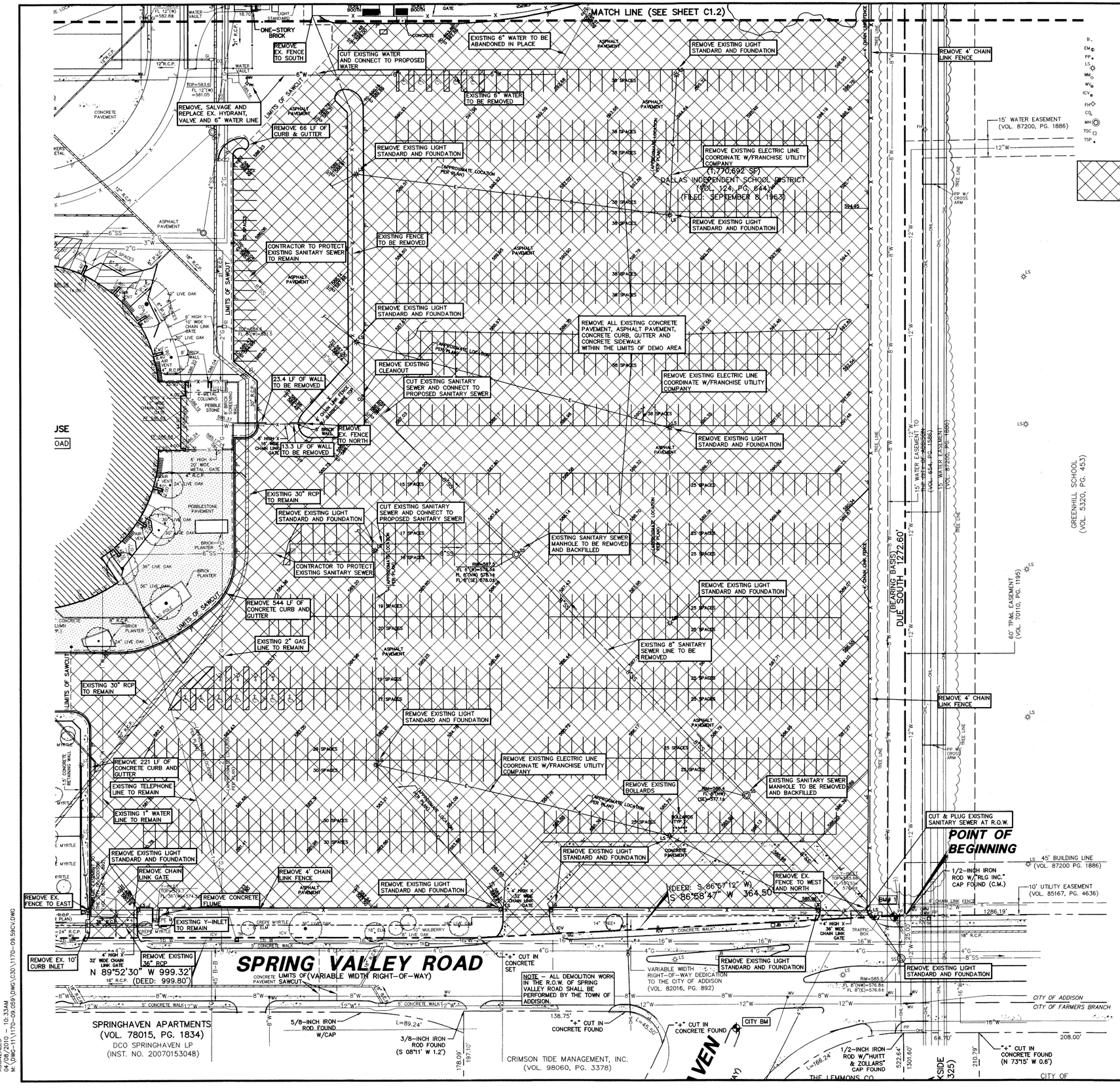

LEGEND

B	BOLLARD	TELE	TELEPHONE BOX
EM	ELECTRIC METER	FL	FLOOD LIGHT
PP	POWER POLE	FP	FLAG POLE
LS	LIGHT STANDARD	SIGN	TRAFFIC SIGN
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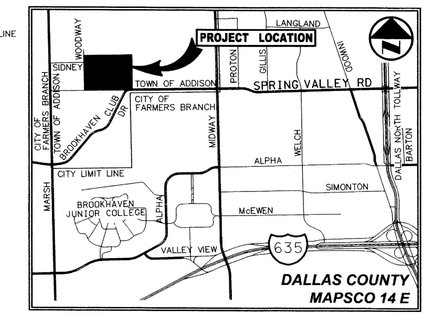
CO	CLEANOUT		OVERHEAD UTILITY LINE
MH	MANHOLE		
TSC	TRAFFIC SIGNAL CONTROL		
TSP	TRAFFIC SIGNAL POLE		

PAVEMENT AREA TO BE REMOVED

0 20 40 80 120
GRAPHIC SCALE IN FEET



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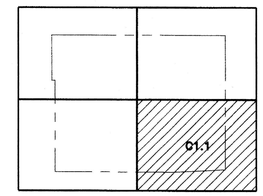

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REFERENCE LANDSCAPE PLANS FOR TREE REMOVAL AND PROTECTION

DEMOLITION NOTES

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11. CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH DALLAS ISD TO ACCOMMODATE ANY PREVIOUSLY SCHEDULED ACTIVITIES.
12. EXISTING WATER METERS TO BE REMOVED SHALL BE SALVAGED AND RETURNED TO THE TOWN OF ADDISON SERVICE CENTER.
13. FOR ALL EXISTING LIGHT STANDARDS TO BE REMOVED CONTRACTOR IS TO REMOVE LIGHT POLE FOUNDATIONS BELOW GRADE

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED PROFESSIONAL ENGINEER
4/8/10

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8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-100080-00

DEMOLITION PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C1.1

PK FILE: 1170-09.059

DWG FILE: 1170-09.59CV.DWG
XREF FILE: 1170-09-0755U.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

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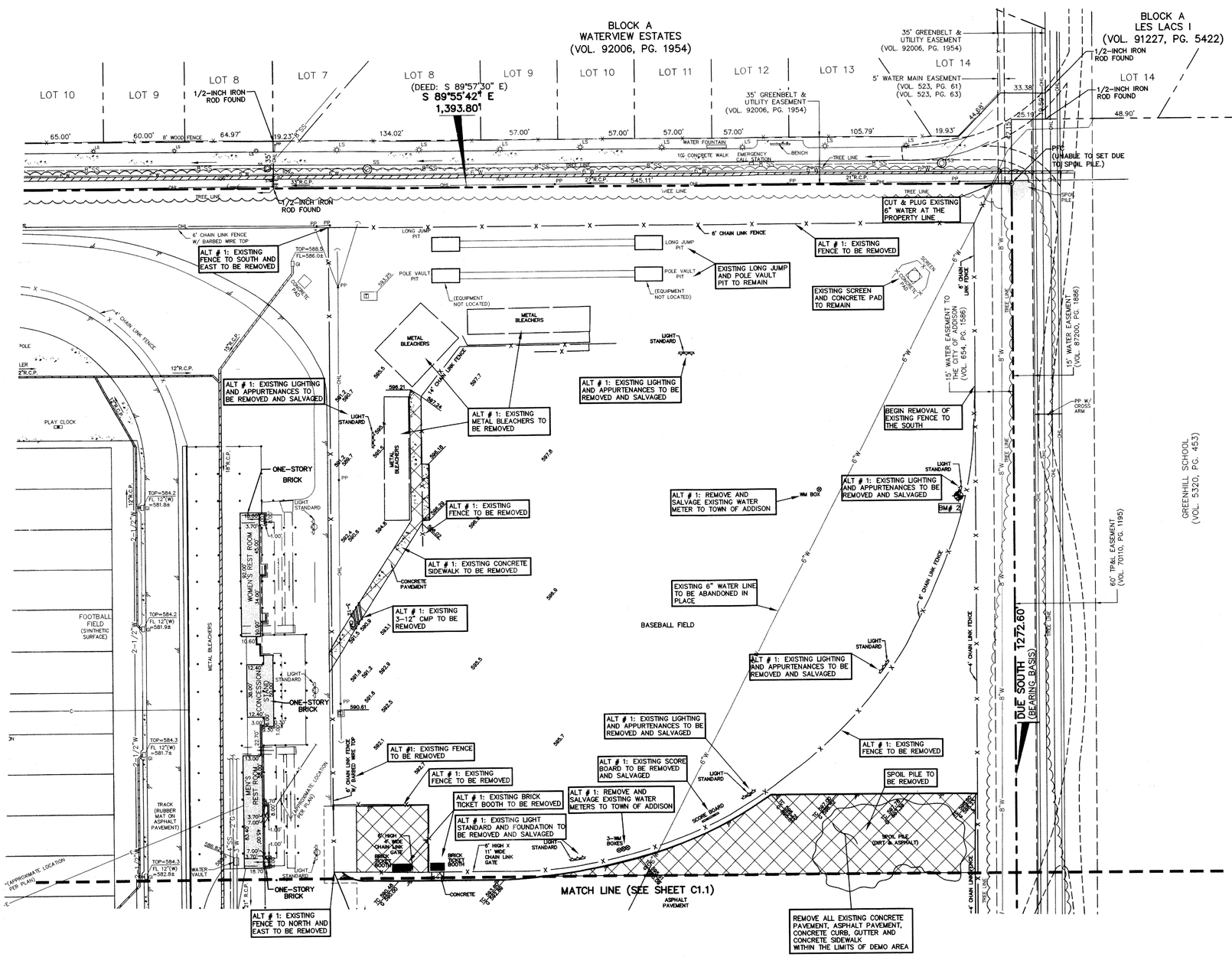

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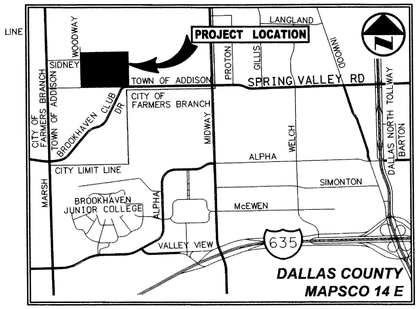

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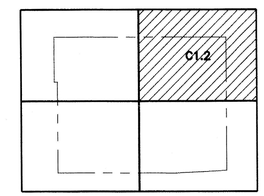

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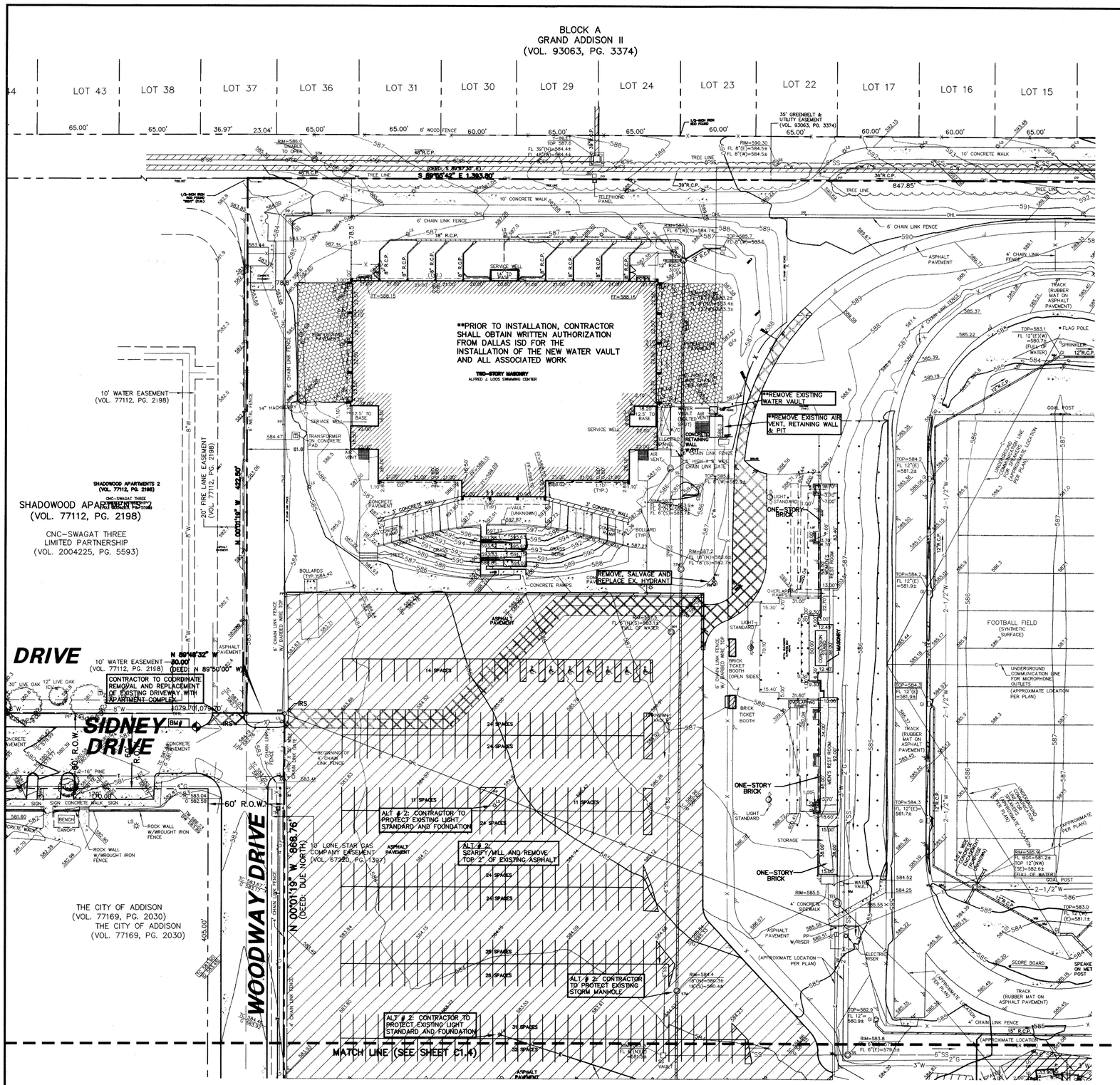

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ALT # 2:
SCARIFY/MILL AND REMOVE TOP 2" OF EXISTING ASPHALT

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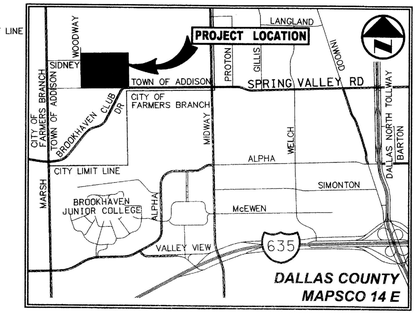

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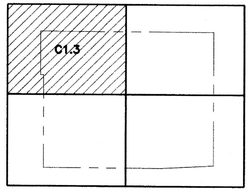

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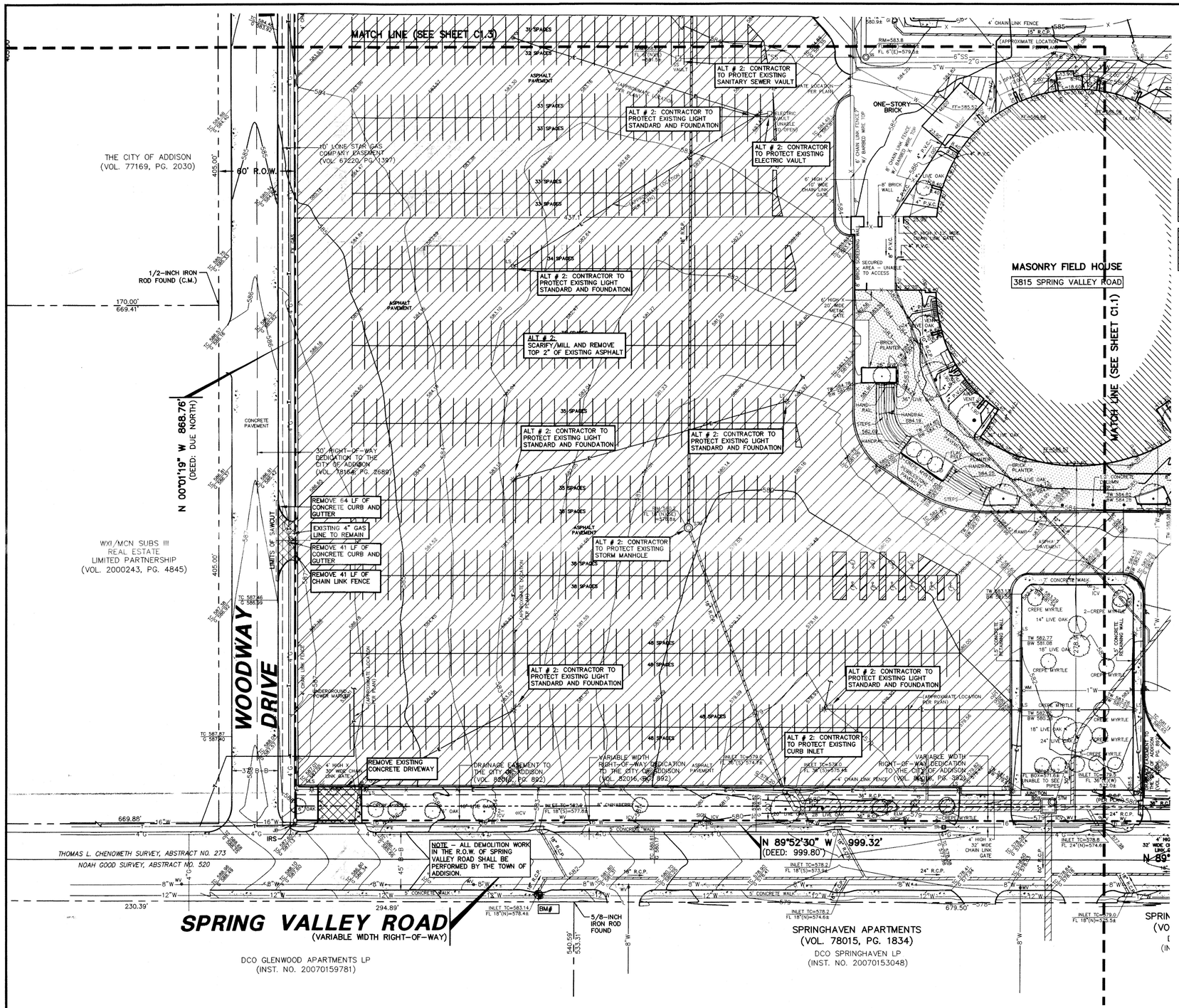

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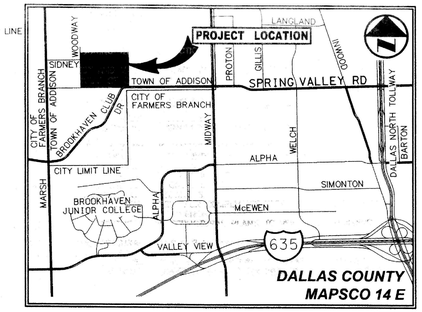

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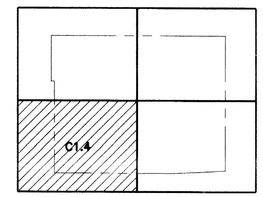

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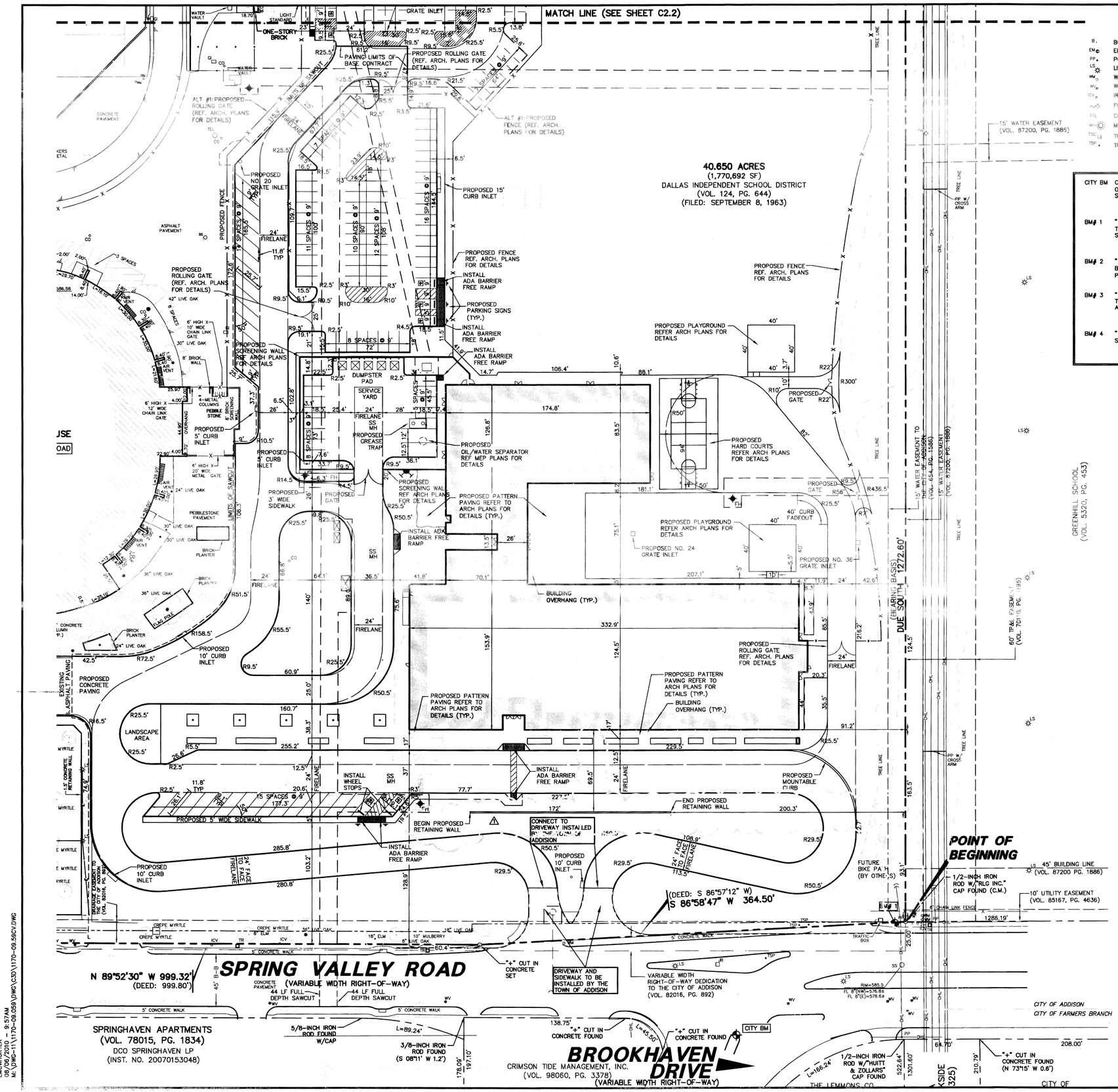

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BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
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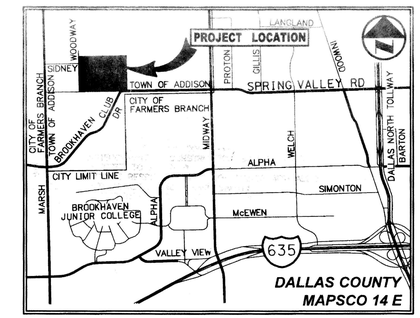
GRAPHIC SCALE IN FEET



VICINITY MAP
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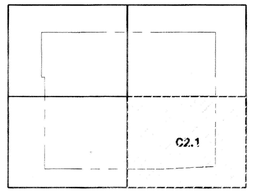

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STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
04/08/10

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NO.	DATE	REVISION
1	08/06/2010	REVISED RETAINING WALL LOCATION

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

DIMENSIONAL CONTROL PLAN

GEORGE H.W. BUSH ELEM SCHOOL
DALLAS INDEPENDENT SCHOOL DISTRICT
10.000 ACRES
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C2.1

PK FILE: 1170-09.059
DWG FILE: 1170-09.59CV.DWG
XREF FILE: 1170-09.075SUR.DWG

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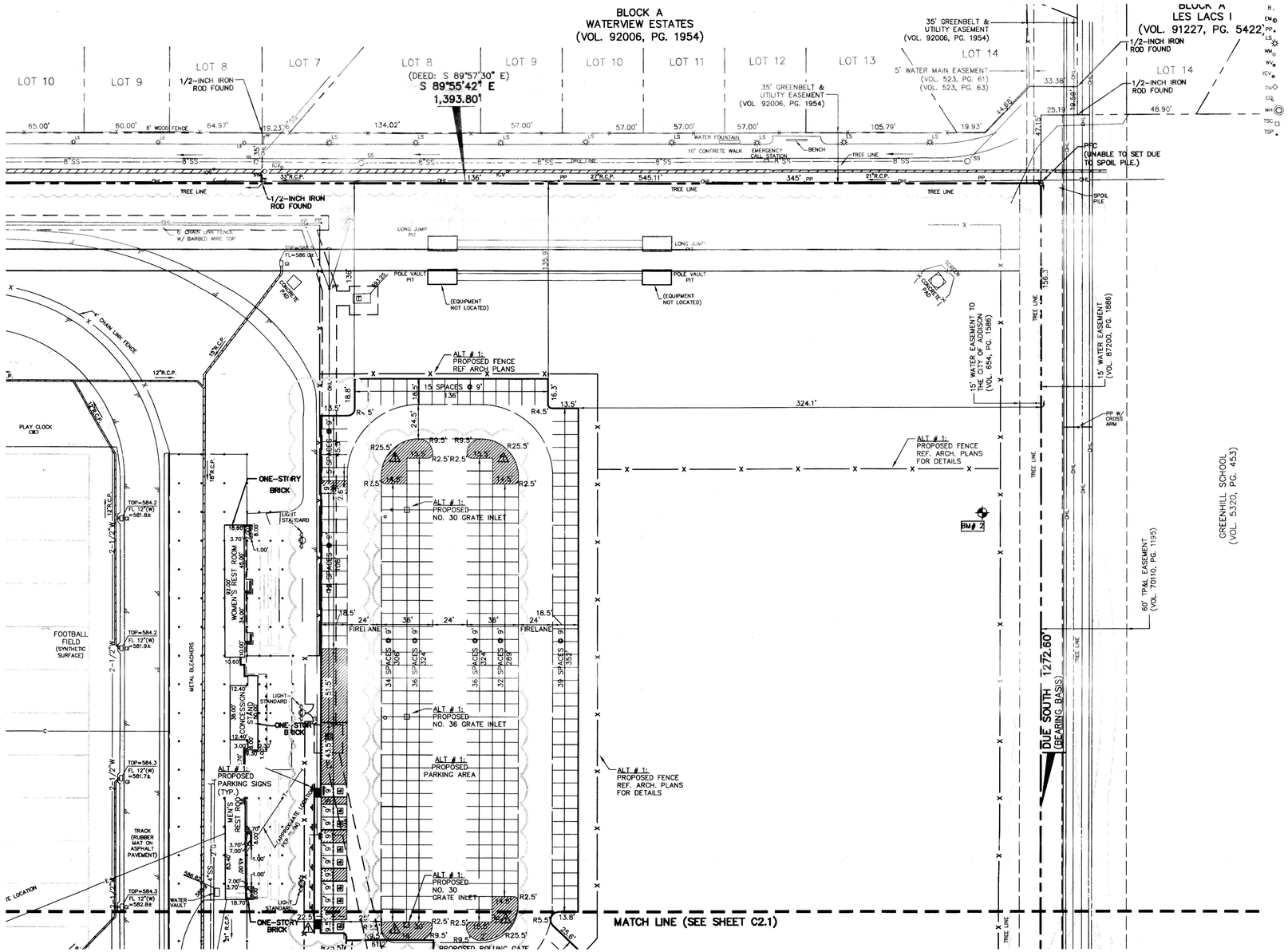
GEORGE H.W. BUSH ELEMENTARY SCHOOL



LEGEND

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LS	LIGHT STANDARD	SIGN	TRAFFIC SIGN
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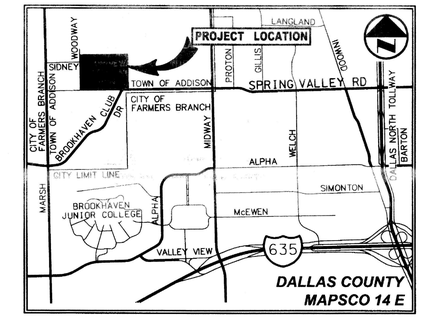
GRAPHIC SCALE IN FEET



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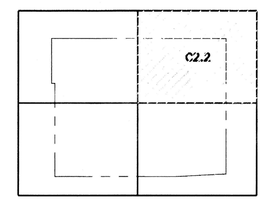

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STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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NO.	DATE	REVISION
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Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
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DALLAS INDEPENDENT SCHOOL DISTRICT
10.000 ACRES
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C2.2

GEORGE H.W. BUSH ELEMENTARY SCHOOL

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DWG: 1170-09.59CV.DWG
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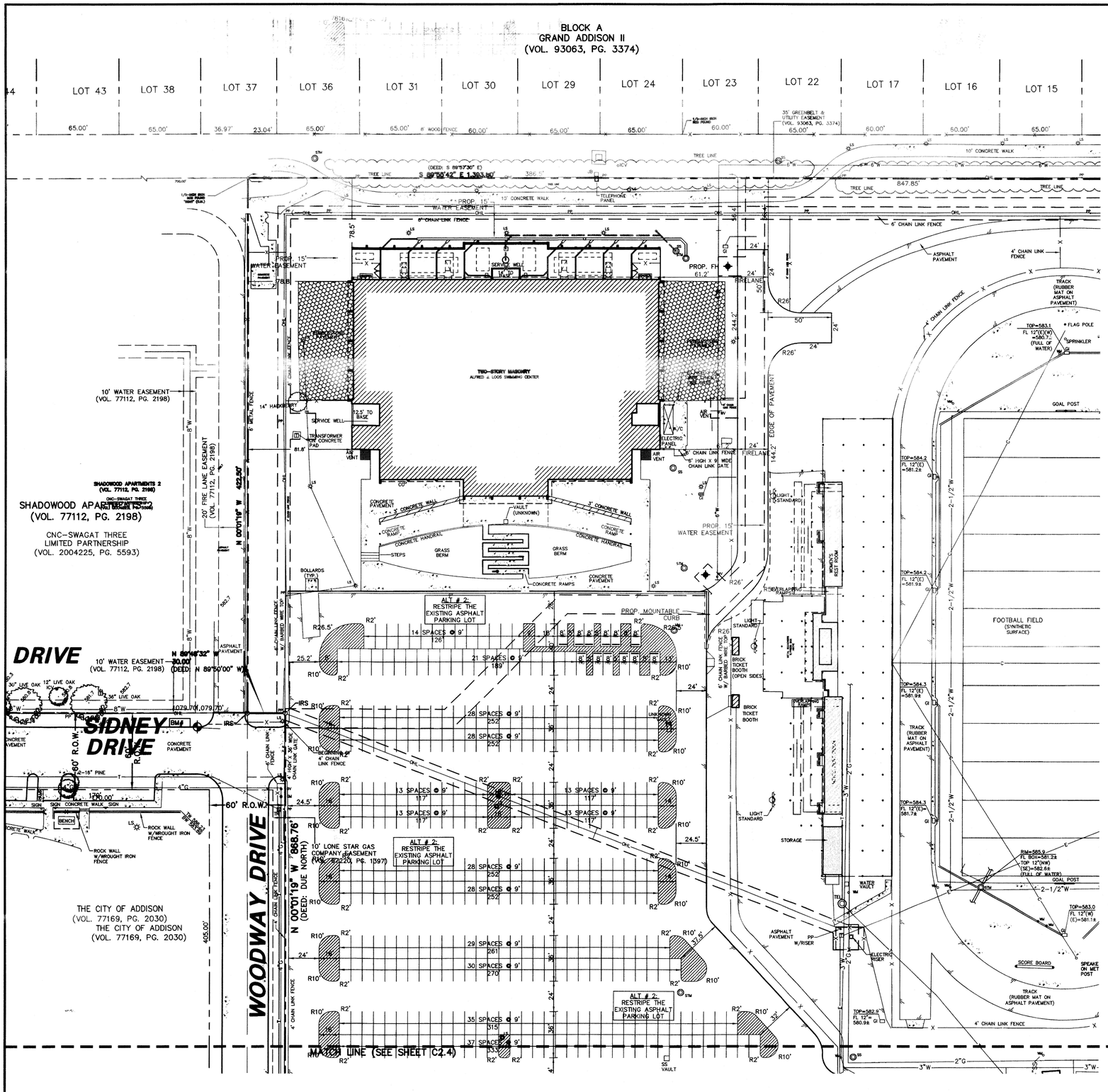

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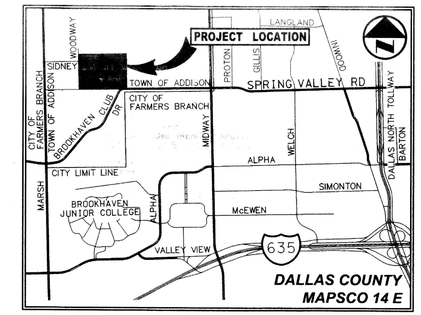

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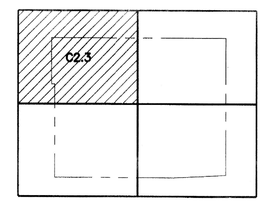

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LICENSED
PROFESSIONAL ENGINEER
4/15/10

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DIMENSIONAL CONTROL PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C2.3

PK FILE: 1170-09.059
DWG FILE: 1170-09.59CV.DWG
XREF FILE: 1170-09-1175SI.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

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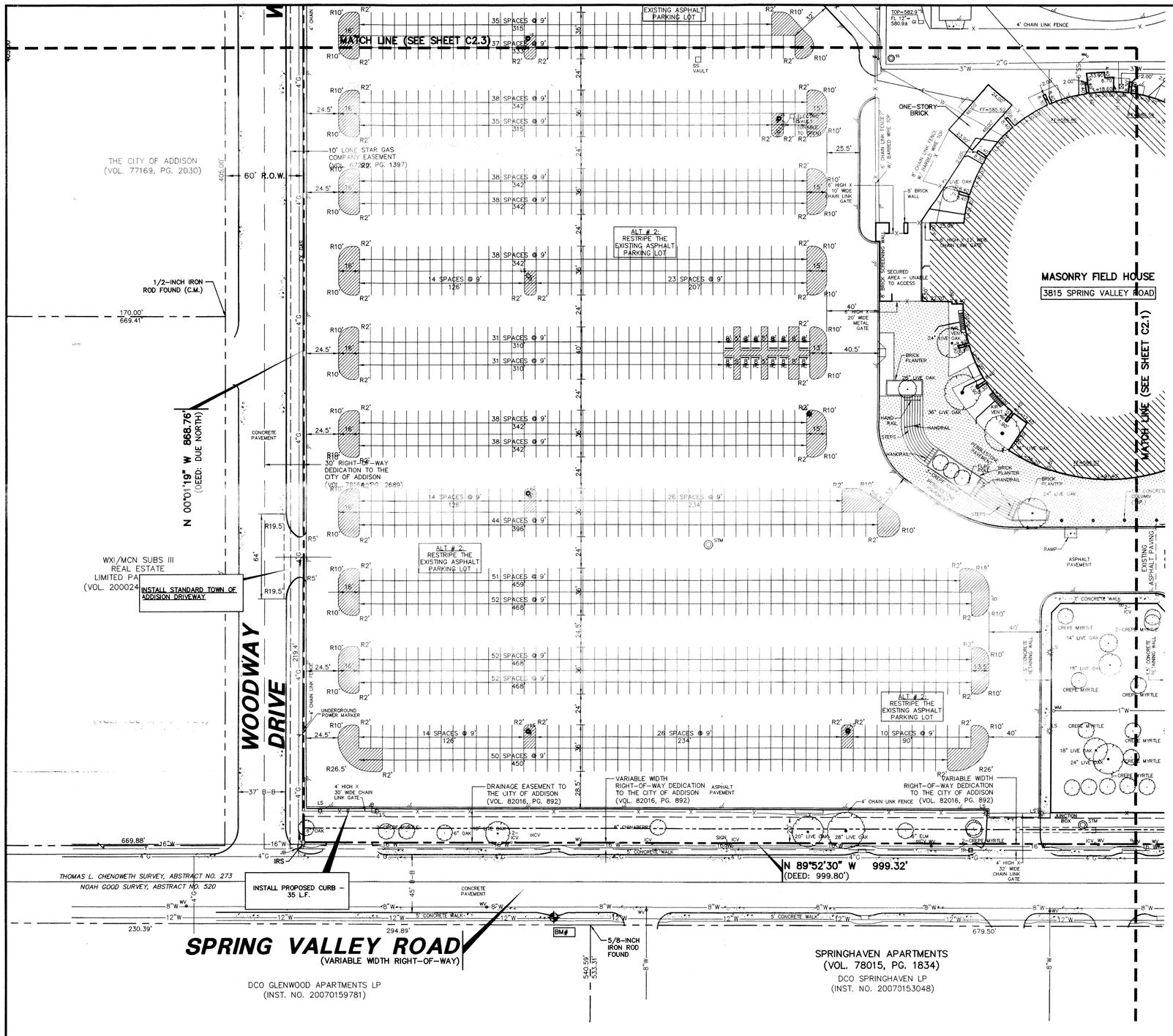

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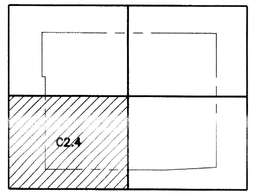

INDEX MAP
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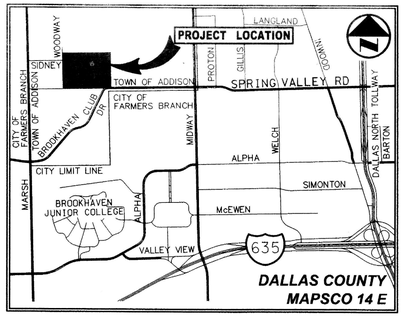
GRAPHIC SCALE IN FEET



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   5.3 MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES.
   5.4 MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE; ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, BONDS AND THREE-WAY CONTRACTS SHALL BE SUBMITTED TO THE TOWN AS REQUIRED.
7. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
8. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
9. REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE AND SIDEWALKS.
10. BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
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NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

DIMENSIONAL CONTROL PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C2.4

PK FILE: 1170-09.059
DWG FILE: 1170-09.59CV.DWG
XREF FILE: 1170-09-07501.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

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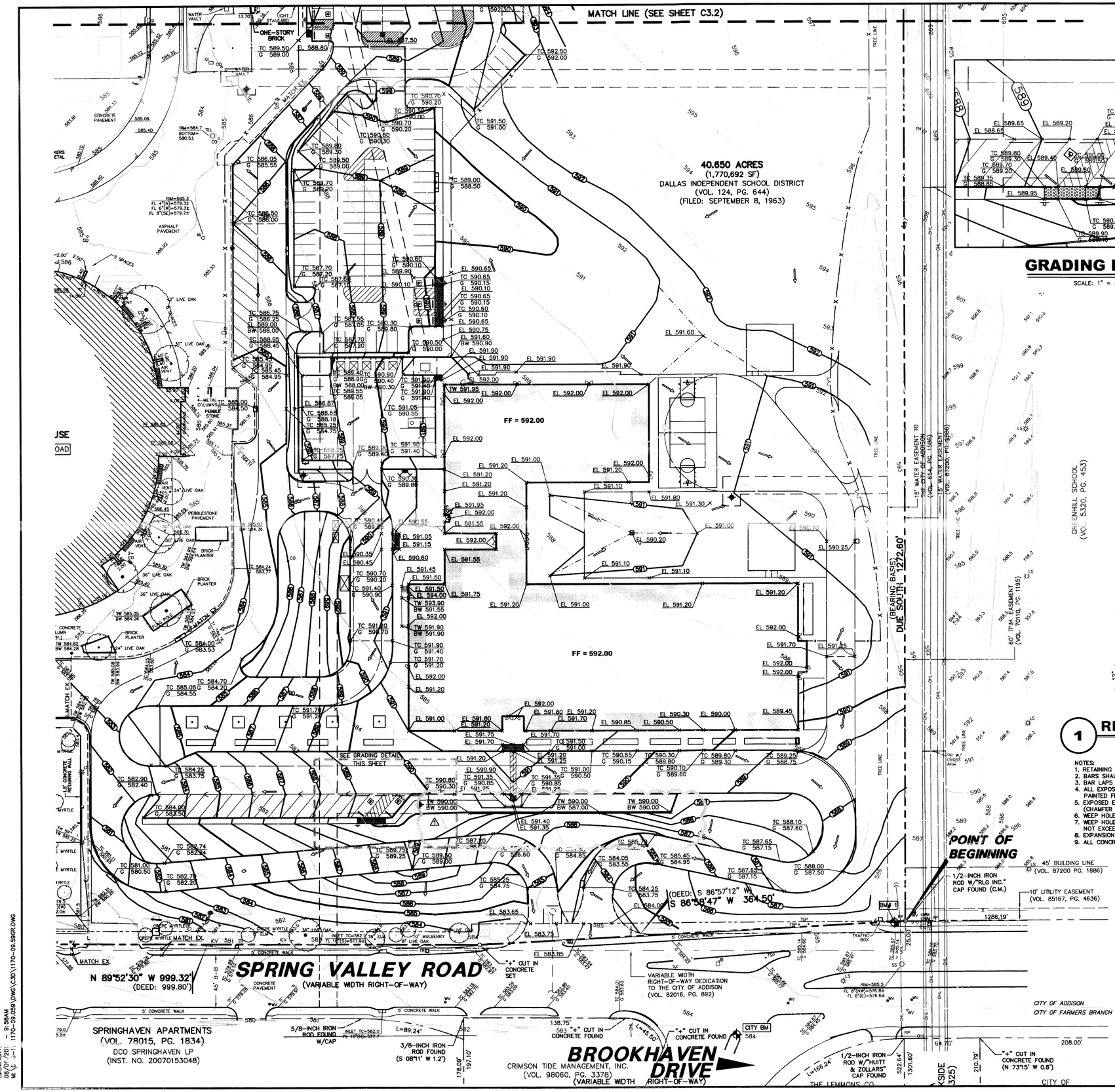
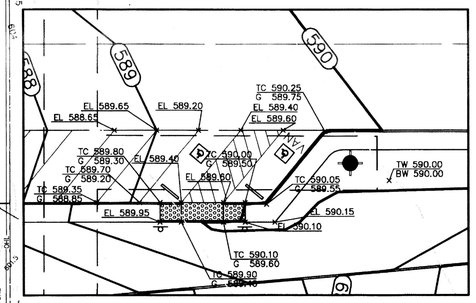
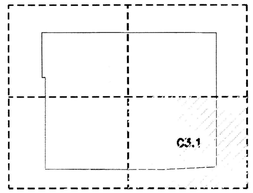




GRADING DETAIL

SCALE: 1" = 20'



INDEX MAP
(NOT TO SCALE)

0 20 40 80 120
GRAPHIC SCALE IN FEET

LEGEND

B	BOLLARD	(C.M.)	CONTROLLING MONUMENT
EM	ELECTRIC METER		PROPERTY LINE
PP	POWER POLE		FENCE
LS	LIGHT STANDARD	OHE	OVERHEAD UTILITY LINE
WM	WATER METER	613	EXIST CONTOUR
WV	WATER VALVE	612.39	EXIST SPOT ELEVATION
ICV	IRRIGATION CONTROL VALVE	TC 612.39 / G 611.92	EXIST TOP OF CURB ELEVATION / EXIST GUTTER ELEVATION
FH	FIRE HYDRANT	571	PROPOSED CONTOUR
CO	CLEANOUT	TC 614.50 / G 614.00	PROPOSED TOP OF CURB ELEVATION / PROPOSED GUTTER ELEVATION
MH	MANHOLE	EL 614.50	PROPOSED SPOT ELEVATION
TSC	TRAFFIC SIGNAL CONTROL		PROPOSED DRAINAGE FLOW DIRECTION
TSP	TRAFFIC SIGNAL POLE		PROPOSED SWALE
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GRADING AND DRAINAGE GENERAL NOTES

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3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
   A. RCP C-76, CLASS III (REQUIRED WITHIN PUBLIC RIGHT-OF-WAY AND EASEMENTS)
   B. ADS N-12 (WITH GASKETED JOINTS)
   C. HANCOR HI-Q (WITH GASKETED JOINTS)

   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OF APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
8. REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
9. ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
10. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD TOWN SPECIFICATIONS.
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13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD TOWN SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
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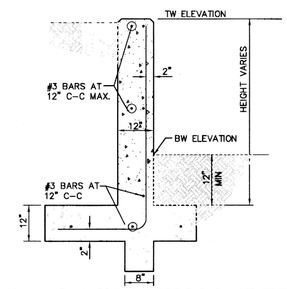

1 RETAINING WALL DETAIL

NOT TO SCALE

NOTES:
1. RETAINING WALLS SHALL BE BUILT WITH WEEP HOLES.
2. BARS SHALL CONFORM TO ITEM 2.2.6 OF NCTCOG SPECIFICATIONS.
3. BAR LAPS SHALL BE 30 DIAMETERS.
4. ALL EXPOSED SURFACES EXCEPT SHALL RECIEVE A CARBORUNDUM OR APPROVED PAINTED FINISH.
5. EXPOSED EDGES AND CORNERS TO BE ROUNDED OR CHAMFERED AS INDICATED HERIN. (CHAMFER ON BACK OF WALL MAY BE ELIMINATED TO PERMIT MOWING)
6. WEEP HOLES SHALL BE FORMED BY FIBER DUCT 3" O.D.
7. WEEP HOLES OR PERFORATED DRAIN SYSTEM MAY BE DELETED FOR RETAINING WALLS NOT EXCEEDING 3' IN HEIGHT WHEN APPROVED BY THE ENGINEER.
8. EXPANSION JOINTS TO BE PLACED IN WALL ON 45' CENTERS MAXIMUM.
9. ALL CONCRETE TO BE CLASS C 3600 PSI CONCRETE.

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED PROFESSIONAL ENGINEER
04/06/10

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NO.	DATE	REVISION
1	08/06/2010	REVISED RETAINING WALL LOCATION & ELEVATIONS

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

GRADING PLAN

GEORGE H.W. BUSH ELEM SCHOOL
DALLAS INDEPENDENT SCHOOL DISTRICT
10.000 ACRES
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=1'			C3.1

PK FILE: 1170-09.059 DWG FILE: 1170-09.59GR.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

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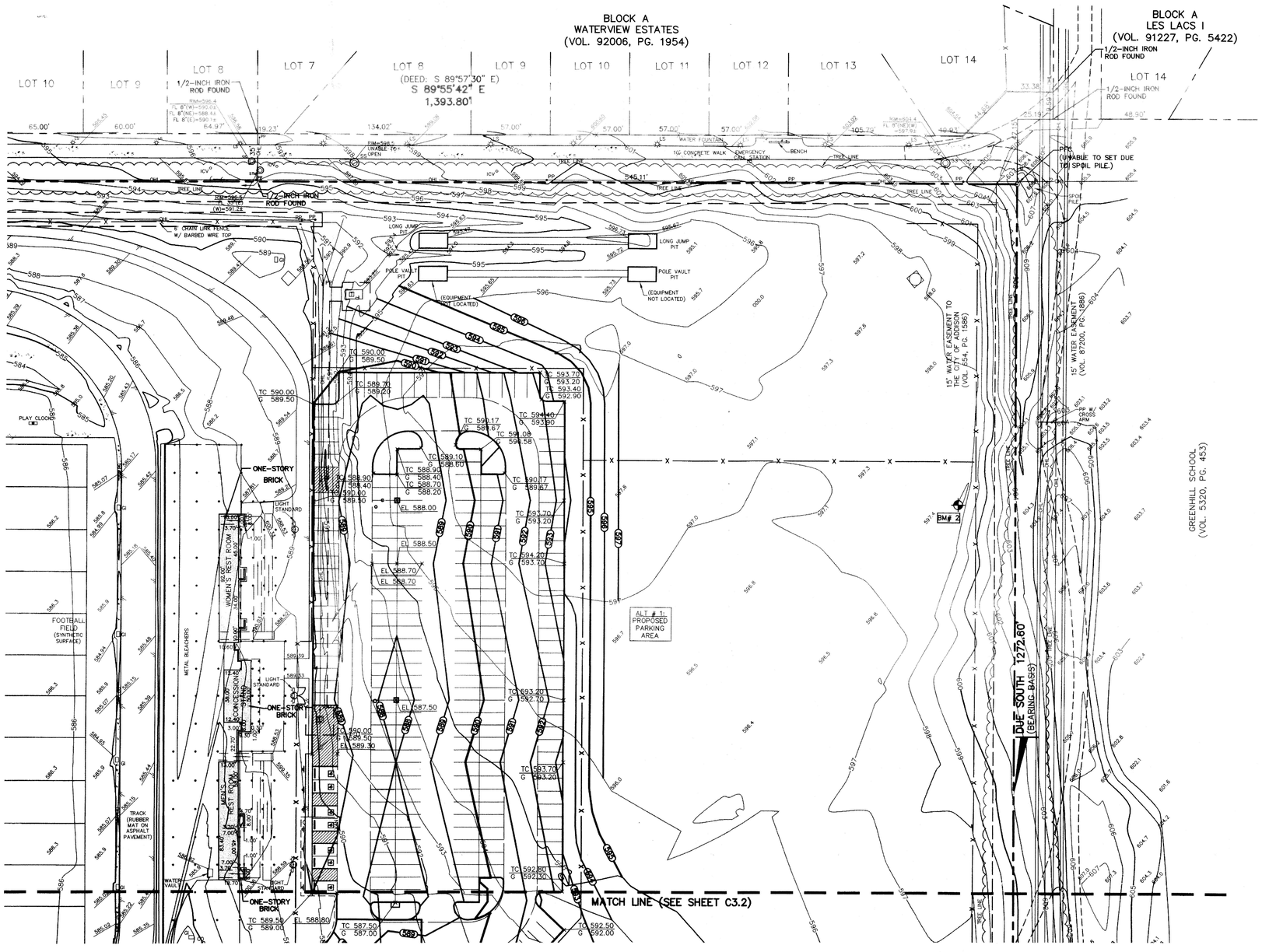

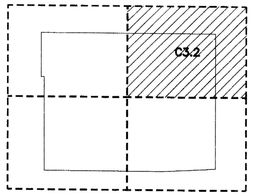

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0 20 40 80 120
GRAPHIC SCALE IN FEET

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EM	ELECTRIC METER		PROPERTY LINE
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STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
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GRADING PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=1'			C3.2

PK FILE: 1170-09.059

DWG FILE: 1170-09.59GR.DWG
XREF FILE: 1170-09.059A.DWG

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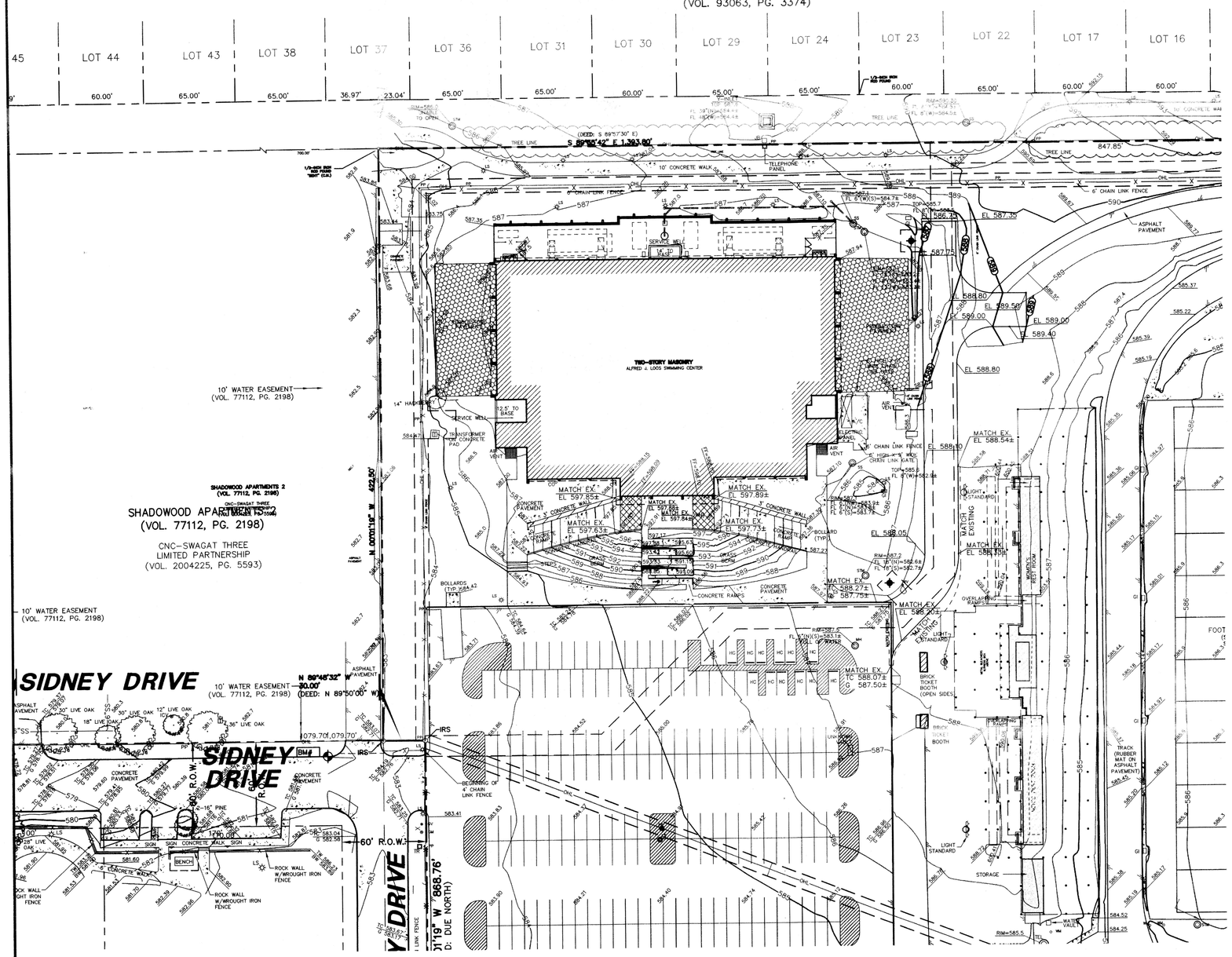

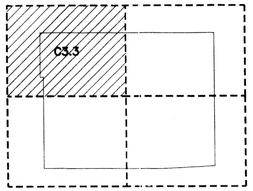

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GRADING PLAN

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10.000 ACRES

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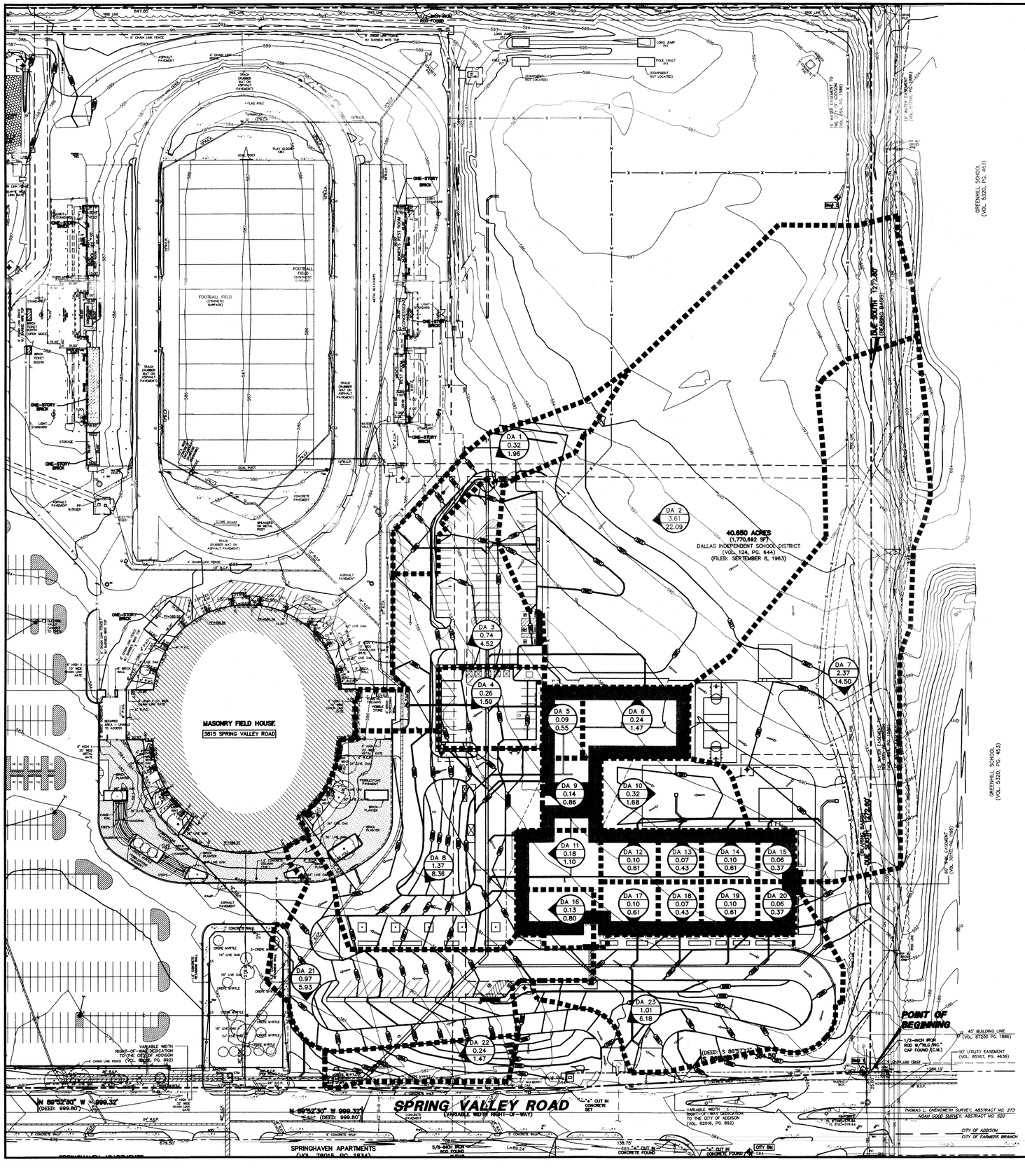

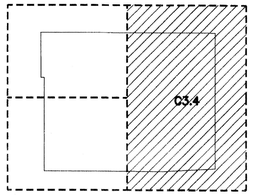

INDEX MAP
(NOT TO SCALE)

0 30 60 120 180
GRAPHIC SCALE IN FEET

LEGEND

- BOLLARD
- ELECTRIC METER
- POWER POLE
- LIGHT STANDARD
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- CLEANOUT
- MANHOLE
- TRAFFIC SIGNAL CONTROL
- TRAFFIC SIGNAL POLE
- TELEPHONE BOX
- FLOOD LIGHT
- FLAG POLE
- TRAFFIC SIGN
- PROPERTY LINE
- FENCE
- PROPOSED DRAINAGE DIVIDE
- PROPOSED CONTOUR (571)
- PROPOSED DRAINAGE FLOW DIRECTION
- PROPOSED DRAINAGE AREA ID (DA 7), AREA IN ACRES (1.09), Q_{100} IN CUBIC FEET PER SECOND (8.71)

IMPERVIOUS AREA

EXISTING AREA = 448,679.55 SF (10.30 ACRES)

PROPOSED AREA = 244,700.31 SF (5.62 ACRES).

(NOT INCLUDING ALT #1)

PROPOSED DRAINAGE CRITERIA:

Q=(C)(I)(A)

DRAINAGE AREA TABLE

DRAINAGE AREA ID	AREA (acres)	C	Tc (minutes)	STORM FREQUENCY	I_{100} (inch/hour)	Q_{100} (cfs)	COMMENTS
1	0.32	0.70	10	100 YEAR	8.74	1.96	
2	3.61	0.70	10	100 YEAR	8.74	22.09	
3	0.74	0.70	10	100 YEAR	8.74	4.52	
4	0.26	0.70	10	100 YEAR	8.74	1.59	
5	0.09	0.70	10	100 YEAR	8.74	0.55	
6	0.24	0.70	10	100 YEAR	8.74	1.47	
7	2.37	0.70	10	100 YEAR	8.74	14.50	
8	1.37	0.70	10	100 YEAR	8.74	8.36	
9	0.14	0.70	10	100 YEAR	8.74	0.86	
10	0.32	0.70	10	100 YEAR	8.74	1.96	
11	0.18	0.70	10	100 YEAR	8.74	1.10	
12	0.10	0.70	10	100 YEAR	8.74	0.61	
13	0.07	0.70	10	100 YEAR	8.74	0.43	
14	0.10	0.70	10	100 YEAR	8.74	0.61	
15	0.06	0.70	10	100 YEAR	8.74	0.37	
16	0.13	0.70	10	100 YEAR	8.74	0.80	
17	0.10	0.70	10	100 YEAR	8.74	0.61	
18	0.07	0.70	10	100 YEAR	8.74	0.43	
19	0.10	0.70	10	100 YEAR	8.74	0.61	
20	0.06	0.70	10	100 YEAR	8.74	0.37	
21	0.97	0.70	10	100 YEAR	8.74	5.93	
22	0.24	0.70	10	100 YEAR	8.74	1.47	
23	1.01	0.70	10	100 YEAR	8.74	6.18	

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

DRAINAGE AREA MAP

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=60'			C3.4

PK FILE: 1170-09.059

DWG FILE: 1170-09.59DM.DWG
XREF FILE: 1170-09.59BA.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

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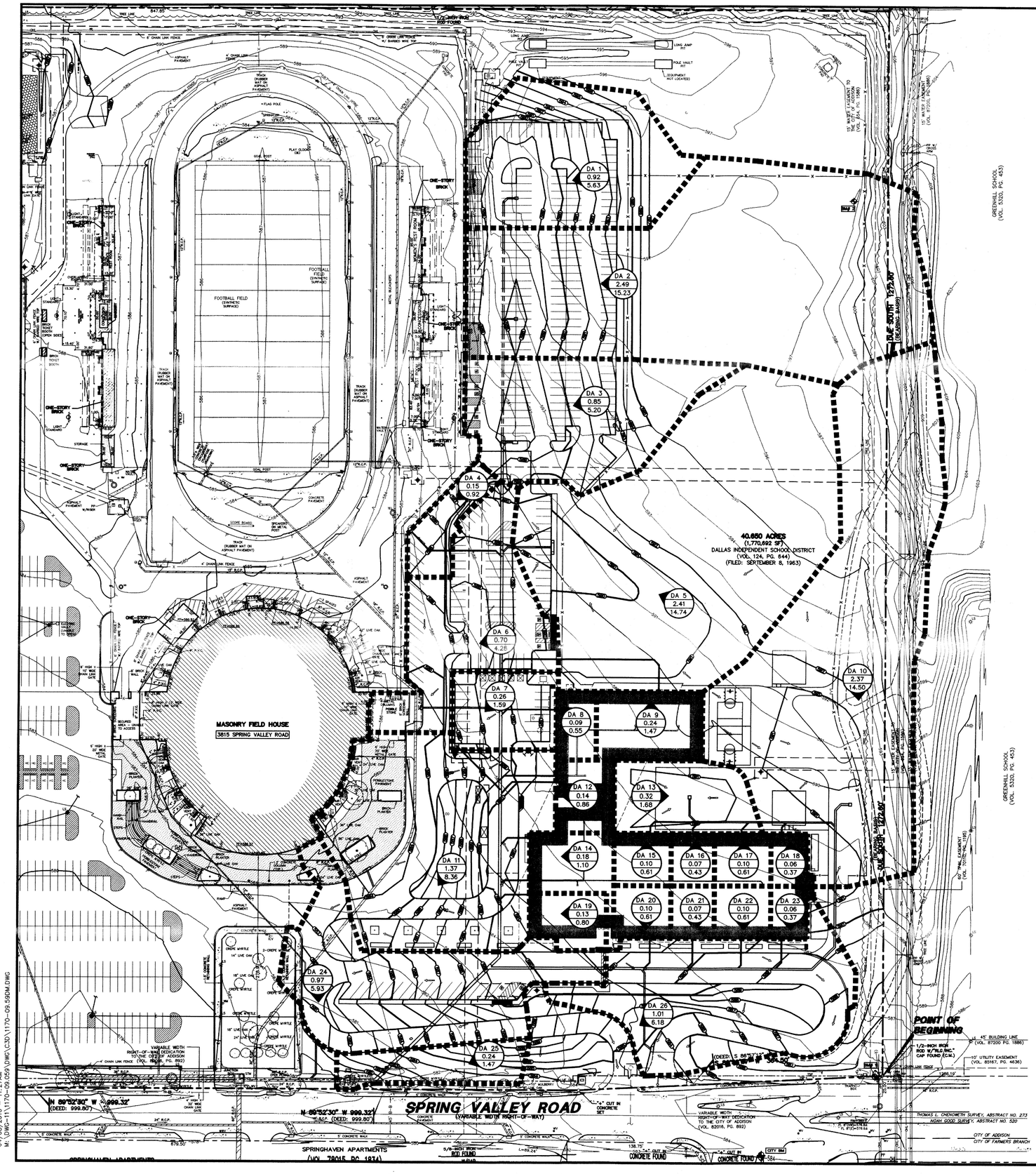

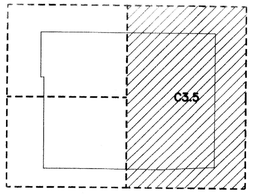

INDEX MAP
(NOT TO SCALE)

0 30 60 120 180
GRAPHIC SCALE IN FEET

LEGEND

- B. BOLLARD
- EM ELECTRIC METER
- PP POWER POLE
- LS LIGHT STANDARD
- WM WATER METER
- WV WATER VALVE
- ICV IRRIGATION CONTROL VALVE
- FH FIRE HYDRANT
- CO CLEANOUT
- MH MANHOLE
- TSC TRAFFIC SIGNAL CONTROL
- TSP TRAFFIC SIGNAL POLE
- TELE TELEPHONE BOX
- FL FLOOD LIGHT
- FP FLAG POLE
- SIGN TRAFFIC SIGN
- PROPERTY LINE
- FENCE
- PROPOSED DRAINAGE DIVIDE
- 5571 PROPOSED CONTOUR
- PROPOSED DRAINAGE FLOW DIRECTION
- DA 7 / 1.09 / 8.71 — PROPOSED DRAINAGE AREA ID; AREA IN ACRES; Q100 IN CUBIC FEET PER SECOND

PROPOSED DRAINAGE CRITERIA:

Q=(C)(I)(A)

DRAINAGE AREA TABLE

DRAINAGE AREA ID	AREA (acres)	C	Tc (minutes)	STORM FREQUENCY	I_{100} (inch/hour)	Q_{100} (cfs)	COMMENTS
1	0.92	0.70	10	100 YEAR	8.74	5.63	
2	2.49	0.70	10	100 YEAR	8.74	15.23	
3	0.85	0.70	10	100 YEAR	8.74	5.20	
4	0.15	0.70	10	100 YEAR	8.74	0.92	
5	2.41	0.70	10	100 YEAR	8.74	14.74	
6	0.70	0.70	10	100 YEAR	8.74	4.28	
7	0.26	0.70	10	100 YEAR	8.74	1.59	
8	0.09	0.70	10	100 YEAR	8.74	0.55	
9	0.24	0.70	10	100 YEAR	8.74	1.47	
10	2.37	0.70	10	100 YEAR	8.74	14.50	
11	1.37	0.70	10	100 YEAR	8.74	8.36	
12	0.14	0.70	10	100 YEAR	8.74	0.86	
13	0.32	0.70	10	100 YEAR	8.74	1.96	
14	0.18	0.70	10	100 YEAR	8.74	1.10	
15	0.10	0.70	10	100 YEAR	8.74	0.61	
16	0.07	0.70	10	100 YEAR	8.74	0.43	
17	0.10	0.70	10	100 YEAR	8.74	0.61	
18	0.06	0.70	10	100 YEAR	8.74	0.37	
19	0.13	0.70	10	100 YEAR	8.74	0.80	
20	0.10	0.70	10	100 YEAR	8.74	0.61	
21	0.07	0.70	10	100 YEAR	8.74	0.43	
22	0.10	0.70	10	100 YEAR	8.74	0.61	
23	0.06	0.70	10	100 YEAR	8.74	0.37	
24	0.97	0.70	10	100 YEAR	8.74	5.93	
25	0.24	0.70	10	100 YEAR	8.74	1.47	
26	1.01	0.70	10	100 YEAR	8.74	6.18	

IMPERVIOUS AREA

EXISTING AREA = 448,679.55 SF (10.30 ACRES)

PROPOSED AREA = 315,990 SF (7.25 ACRES).

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

DRAINAGE AREA MAP ALT #1

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=60'			C3.5

PK FILE: 1170-09.059

DWG FILE: 1170-09.59DM.DWG

XREF FILE: 1170-09.59BA.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

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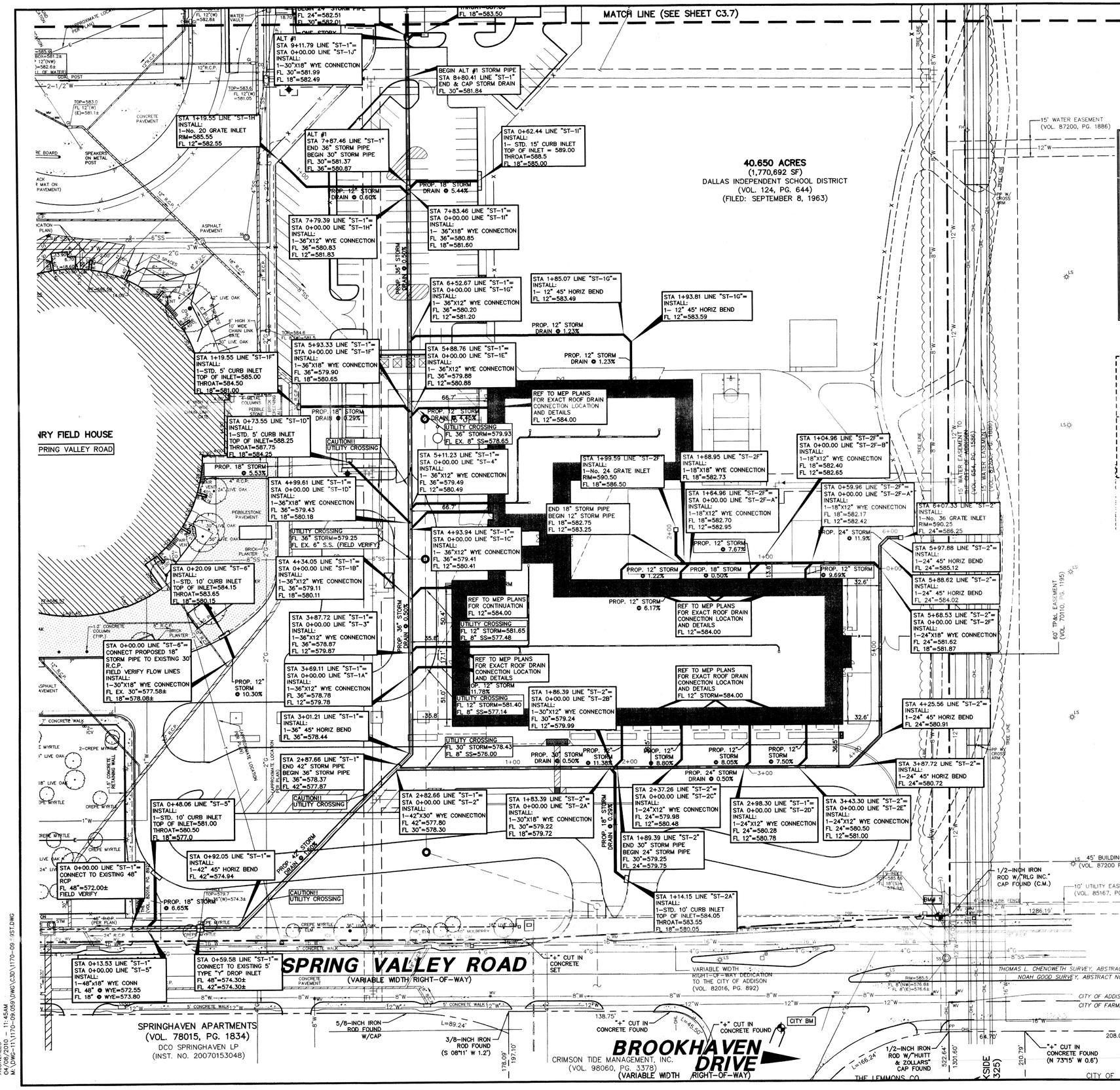
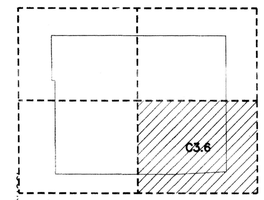


BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
BM# 1	" ⊞ " CUT SET ON THE NORTHWEST CORNER OF A Y-INLET ON THE NORTH SIDE OF SPRING VALLEY ROAD, 9'± WEST OF THE SOUTHEAST CORNER OF THE SITE. ELEV=585.61
BM# 2	" ⊞ " CUT SET ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A LIGHT STANDARD, 236'± SOUTH OF THE NORTH PROPERTY LINE AND 40'± WEST OF THE EAST PROPERTY LINE. ELEV=582.06
BM# 3	" ⊞ " CUT SET ON THE NORTH CURB OF SIDNEY DRIVE, NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF SIDNEY DRIVE AND WOODWAY DRIVE. ELEV=583.14
BM# 4	" ⊞ " CUT SET ON AN INLET BOX ON THE SOUTH SIDE OF SPRING VALLEY ROAD, 220'± EAST OF WOODWAY DRIVE. ELEV=583.14



INDEX MAP
(NOT TO SCALE)

0 20 40 80 120
GRAPHIC SCALE IN FEET

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
FL	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
	PROPERTY LINE
—X—	FENCE
—OHU—	OVERHEAD UTILITY LINE
—E—	UNDERGROUND ELECTRIC LINE
—T—	UNDERGROUND TELEPHONE LINE
—C—	UNDERGROUND CABLE LINE
—6"W—	UNDERGROUND WATER LINE
—6"SS—	UNDERGROUND SANITARY SEWER LINE
	PROPOSED 100-YR FLOODPLAIN LIMITS

GRADING AND DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
   A. RCP C-76, CLASS III W/ GASKETED JOINTS
   B. ADS N-12 W/ GASKETED TIGHT JOINTS
   C. ADS ECOFIRST W/ GASKETED WATER TIGHT JOINTS

   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OF APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
8. REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
9. ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
10. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD TOWN SPECIFICATIONS.
11. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD TOWN SPECIFICATIONS.
12. A ROUND MANHOLE COVER MEETING TOWN SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD TOWN SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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STORM DRAINAGE PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C3.6

PK FILE: 1170-09.059
DWG FILE: 1170-09.59ST.DWG
XREF FILE: 1170-09.59B1.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

AGONZALES
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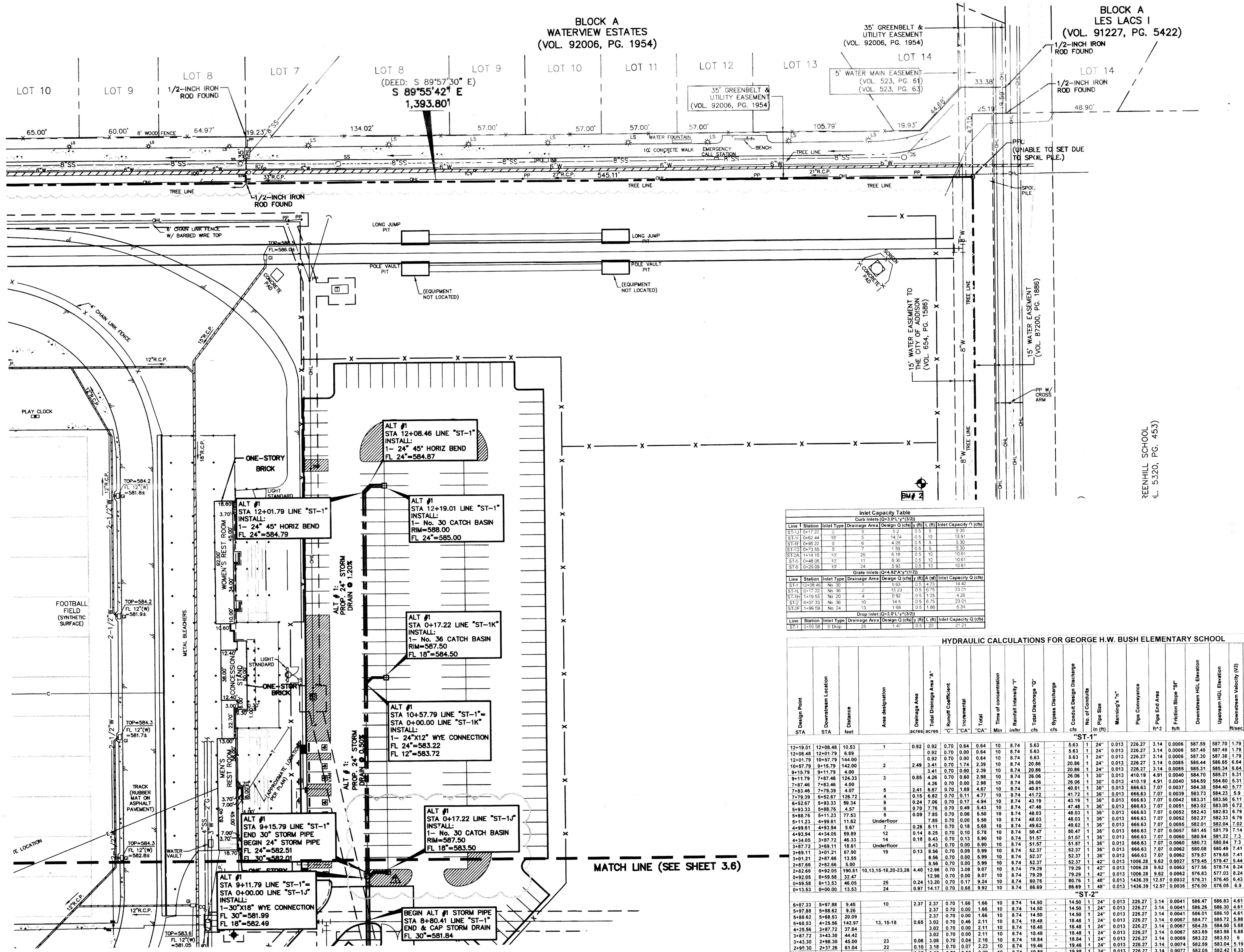


Inlet Capacity Table

Curb Inlets (Q=3.0*L*y^(3/2))

Line	Station	Inlet Type	Drainage Area	Design Q (cfs)	y (ft)	L (ft)	Inlet Capacity Q (cfs)
ST-1J	0+17.22	5'	3	5.2	0.5	5	5.30
ST-1I	0+62.44	15'	5	14.74	0.5	15	15.91
ST-1F	0+95.22	5'	6	4.28	0.5	5	5.30
ST-1D	0+73.55	5'	7	1.59	0.5	5	5.30
ST-2A	1+14.15	10'	26	6.18	0.5	10	10.61
ST-5	0+48.06	10'	11	8.36	0.5	10	10.61
ST-6	0+20.09	10'	24	5.93	0.5	10	10.61

Grate Inlets (Q=4.82*A*y^(1/2))

Line	Station	Inlet Type	Drainage Area	Design Q (cfs)	y (ft)	A (sf)	Inlet Capacity Q (cfs)
ST-1	12+08.46	No. 30	1	5.63	0.5	4.23	14.42
ST-1L	0+17.22	No. 36	2	15.23	0.5	6.75	23.01
ST-1H	1+19.55	No. 20	4	0.92	0.5	1.25	4.26
ST-2	6+07.33	No. 36	10	14.5	0.5	6.75	23.01
ST-2F	1+99.59	No. 24	13	1.68	0.5	1.86	6.34

Drop Inlet (Q=3.0*L*y^(3/2))

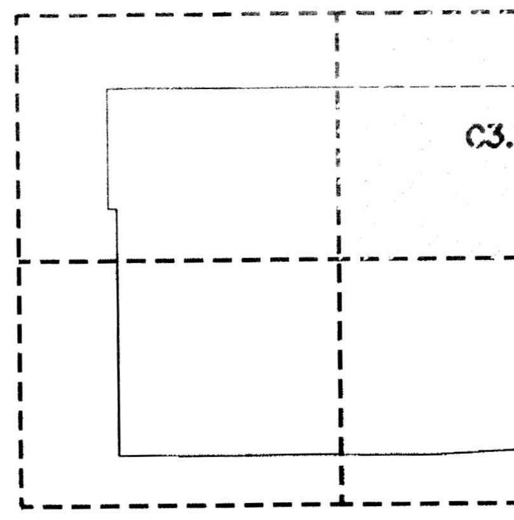
Line	Station	Inlet Type	Drainage Area	Design Q (cfs)	y (ft)	L (ft)	Inlet Capacity Q (cfs)
ST-1	0+59.58	5' Drop	25	1.47	0.5	20	21.21

HYDRAULIC CALCULATIONS FOR GEORGE H.W. BUSH ELEMENTARY SCHOOL

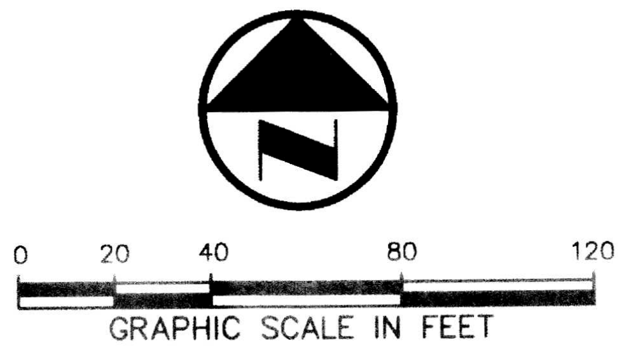
Design Point STA	Downstream Location STA	Distance feet	Area designation	Drainage Area acres	Total Drainage Area "A" acres	Runoff Coefficient "C"	Incremental "CA"	Total "CA"	Time of concentration Min	Rainfall Intensity "I" in/hr	Total Dischrage "Q" cfs	Bypass Discharge cfs	Conduit Design Discharge cfs	No. of Conduits	Pipe Size in (ft)	Manning's "n"	Pipe Conveyance	Pipe End Area ft^2	Friction Slope "Sf" ft/ft	Downstream HGL Elevation	Upstream HGL Elevation	Downstream Velocity (V2) ft/sec	Upstream Velocity (V1) ft/sec	Downstream Velocity Head V2/2g ft	Upstream Velocity Head V1/2g ft	Minor Loss Coefficient K	Total Minor Loss ft	Upstream Ground Elevation ft	Elev. Diff ground HGL	Comments
"ST-1"																														
12+19.01	12+08.48	10.53	1	0.92	0.92	0.70	0.64	0.64	10	8.74	5.63	-	5.63	1	24"	0.013	226.27	3.14	0.0006	587.59	587.70	1.79		0.05		1.5	0.1	588	0.30	
12+08.48	12+01.79	6.69			0.92	0.70	0.00	0.64	10	8.74	5.63	-	5.63	1	24"	0.013	226.27	3.14	0.0006	587.48	587.49	1.79	1.79	0.05	0.05	0.5	0.1	588.2	0.71	
12+01.79	10+57.79	144.00			0.92	0.70	0.00	0.64	10	8.74	5.63	-	5.63	1	24"	0.013	226.27	3.14	0.0006	587.30	587.38	1.79	1.79	0.05	0.05	0.5	0.1	588.3	0.92	
10+57.79	9+15.79	142.00	2	2.49	3.41	0.70	1.74	2.39	10	8.74	20.86	-	20.86	1	24"	0.013	226.27	3.14	0.0085	585.44	586.65	6.64	1.79	0.69	0.05	0.75	0.65	588	1.35	
9+15.79	9+11.79	4.00			3.41	0.70	0.00	2.39	10	8.74	20.86	-	20.86	1	24"	0.013	226.27	3.14	0.0085	585.31	585.34	6.64	6.64	0.68	0.69		0.1	588	2.66	
9+11.79	7+87.46	124.33	3	0.85	4.26	0.70	0.60	2.98	10	8.74	26.06	-	26.06	1	30"	0.013	410.19	4.91	0.0040	584.70	585.21	5.31	6.64	0.44	0.68	0.75	0.1	588	2.79	
7+87.46	7+83.46	4.00			4.26	0.70	0.00	2.98	10	8.74	26.06	-	26.06	1	30"	0.013	410.19	4.91	0.0040	584.59	584.60	5.31	5.31	0.44	0.44		0.1	588.9	4.30	
7+83.46	7+79.39	4.07	5	2.41	6.67	0.70	1.69	4.67	10	8.74	40.81	-	40.81	1	36"	0.013	666.63	7.07	0.0037	584.38	584.40	5.77	5.31	0.52	0.44	0.75	0.19	588.9	4.50	
7+79.39	6+52.67	126.72	4	0.15	6.82	0.70	0.11	4.77	10	8.74	41.72	-	41.72	1	36"	0.013	666.63	7.07	0.0039	583.73	584.23	5.9	5.77	0.54	0.52	0.75	0.15	588.9	4.67	
6+52.67	5+93.33	59.34	9	0.24	7.06	0.70	0.17	4.94	10	8.74	43.19	-	43.19	1	36"	0.013	666.63	7.07	0.0042	583.31	583.56	6.11	5.9	0.58	0.54	0.75	0.17	588.5	4.94	
5+93.33	5+88.76	4.57	6	0.70	7.76	0.70	0.49	5.43	10	8.74	47.48	-	47.48	1	36"	0.013	666.63	7.07	0.0051	583.02	583.05	6.72	6.11	0.70	0.58	0.75	0.27	589.5	6.45	
5+88.76	5+11.23	77.53	8	0.09	7.85	0.70	0.06	5.50	10	8.74	48.03	-	48.03	1	36"	0.013	666.63	7.07	0.0052	582.43	582.83	6.79	6.72	0.72	0.70	0.75	0.19	589.5	6.67	
5+11.23	4+99.61	11.62	Underfloor		7.85	0.70	0.00	5.50	10	8.74	48.03	-	48.03	1	36"	0.013	666.63	7.07	0.0052	582.27	582.33	6.79	6.79	0.72	0.72		0.1	589	6.67	
4+99.61	4+93.94	5.67	7	0.26	8.11	0.70	0.18	5.68	10	8.74	49.62	-	49.62	1	36"	0.013	666.63	7.07	0.0055	582.01	582.04	7.02	6.79	0.76	0.72	0.75	0.23	590	7.96	
4+93.94	4+34.05	59.89	12	0.14	8.25	0.70	0.10	5.78	10	8.74	50.47	-	50.47	1	36"	0.013	666.63	7.07	0.0057	581.45	581.79	7.14	7.02	0.79	0.76	0.75	0.22	590.8	9.01	
4+34.05	3+87.72	46.33	14	0.18	8.43	0.70	0.13	5.90	10	8.74	51.57	-	51.57	1	36"	0.013	666.63	7.07	0.0060	580.94	581.22	7.3	7.14	0.83	0.79	0.75	0.23	590.9	9.68	
3+87.72	3+69.11	18.61	Underfloor		8.43	0.70	0.00	5.90	10	8.74	51.57	-	51.57	1	36"	0.013	666.63	7.07	0.0060	580.73	580.84	7.3	7.3	0.83	0.83		0.1	590.5	9.66	
3+69.11	3+01.21	67.90	19	0.13	8.56	0.70	0.09	5.99	10	8.74	52.37	-	52.37	1	36"	0.013	666.63	7.07	0.0062	580.08	580.49	7.41	7.3	0.85	0.83	0.75	0.23	590.5	10.01	
3+01.21	2+87.66	13.55			8.56	0.70	0.00	5.99	10	8.74	52.37	-	52.37	1	36"	0.013	666.63	7.07	0.0062	579.57	579.65	7.41	7.41	0.85	0.85	0.5	0.43	589.2	9.55	
2+87.66	2+82.66	5.00			8.56	0.70	0.00	5.99	10	8.74	52.37	-	52.37	1	42"	0.013	1006.28	9.62	0.0027	579.45	579.47	5.44	7.41	0.46	0.85		0.1	589	9.53	
2+82.66	0+92.05	190.61	10,13,15-18,20-23,26	4.40	12.96	0.70	3.08	9.07	10	8.74	79.29	-	79.29	1	42"	0.013	1006.28	9.62	0.0062	577.56	578.74	8.24	5.44	1.05	0.46	0.75	0.71	589	10.26	
0+92.05	0+59.58	32.47			12.96	0.70	0.00	9.07	10	8.74	79.29	-	79.29	1	42"	0.013	1006.28	9.62	0.0062	576.83	577.03	8.24	8.24	1.05	1.05	0.5	0.53	581	3.97	
0+59.58	0+13.53	46.05	25	0.24	13.20	0.70	0.17	9.24	10	8.74	80.76	-	80.76	1	48"	0.013	1436.39	12.57	0.0032	576.31	576.45	6.43	8.24	0.64	1.05	0.25	0.38	579.7	3.25	
0+13.53	0+00.00	13.53	24	0.97	14.17	0.70	0.68	9.92	10	8.74	86.69	-	86.69	1	48"	0.013	1436.39	12.57	0.0036	576.00	576.05	6.9	6.43	0.74	0.64	0.75	0.26	579.5	3.45	
"ST-2"																														
6+07.33	5+97.88	9.45	10	2.37	2.37	0.70	1.66	1.66	10	8.74	14.50	-	14.50	1	24"	0.013	226.27	3.14	0.0041	586.47	586.83	4.61		0.33		1.5	0.33	590.25	3.42	
5+97.88	5+88.62	9.26			2.37	0.70	0.00	1.66	10	8.74	14.50	-	14.50	1	24"	0.013	226.27	3.14	0.0041	586.26	586.30	4.61	4.61	0.33	0.33	0.5	0.17	590.5	4.20	
5+88.62	5+68.53	20.09			2.37	0.70	0.00	1.66	10	8.74	14.50	-	14.50	1	24"	0.013	226.27	3.14	0.0041	586.01	586.10	4.61	4.61	0.33	0.33	0.5	0.17	590.65	4.55	
5+68.53	4+25.56	142.97	13, 15-18	0.65	3.02	0.70	0.46	2.11	10	8.74	18.48	-	18.48	1	24"	0.013	226.27	3.14	0.0067	584.77	585.72	5.88	4.61	0.54	0.33	0.75	0.29	591	5.28	
4+25.56	3+87.72	37.84			3.02	0.70	0.00	2.11	10	8.74	18.48	-	18.48	1	24"	0.013	226.27	3.14	0.0067	584.25	584.50	5.88	5.88	0.54	0.54	0.5	0.27	589	4.50	
3+87.72	3+43.30	44.42			3.02	0.70	0.00	2.11	10	8.74	18.48	-	18.48	1	24"	0.013	226.27	3.14	0.0067	583.69	583.98	5.88	5.88	0.54	0.54	0.5	0.27	588.7	4.72	
3+43.30	2+98.30	45.00	23	0.06	3.08	0.70	0.04	2.16	10	8.74	18.84	-	18.84	1	24"	0.013	226.27	3.14	0.0069	583.22	583.53	6	5.88	0.56	0.54	0.75	0.16	589	5.47	
2+98.30	2+37.26	61.04	22	0.10	3.18	0.70	0.07	2.23	10	8.74	19.46	-	19.46	1	24"	0.013	226.27	3.14	0.0074	582.59	583.04	6.19	6	0.60	0.56	0.75	0.18	589.4	6.36	
2+37.26	1+89.39	47.87	21	0.07	3.25	0.70	0.05	2.28	10	8.74	19.88	-	19.88	1	24"	0.013	226.27	3.14	0.0077	582.05	582.42	6.33	6.19	0.62	0.60	0.75	0.18	590	7.58	
1+89.39	1+86.39	3.00			3.25	0.70	0.00	2.28	10	8.74	19.88	-	19.88	1	30"	0.013	410.19	4.91	0.0023	581.94	581.95	4.05	6.33	0.25	0.62		0.1	590.5	8.55	
1+86.39	1+83.39	3.00	20	0.10	3.35	0.70	0.07	2.35	10	8.74	20.50	-	20.50	1	30"	0.013	410.19	4.91	0.0025	581.83	581.84	4.18	4.05	0.27	0.25	0.75	0.1	590.5	8.66	
1+83.39	0+00.00	183.39	26	1.01	4.36	0.70	0.71	3.05	10	8.74	26.67	-	26.67	1	30"	0.013	410.19	4.91	0.0042	580.80	581.58	5.43	4.18	0.46	0.27	0.75	0.26	590.5	8.92	
"ST-5"																														
0+48.06	0+10.84	37.22	24	0.97	0.97	0.70	0.68	0.68	10	8.74	5.93	-	5.93	1	18"	0.013	105.03	1.77	0.0032	576.44	576.74	3.35		0.17		1.5	0.17	580.5	3.76	
0+10.84	0+00.00	10.84			0.97	0.70	0.00	0.68	10	8.74	5.93	-	5.93	1	18"	0.013	105.03	1.77	0.0032	576.31	576.34	3.35	3.35	0.17	3.35	0.5	0.1	579.25	2.91	
"ST-6"																														
0+48.06	0+00.00	48.06	11	1.37	1.37	0.70	0.96	0.96	10	8.74	8.38	-	8.38	1	18"	0.013	105.03	1.77	0.0064	579.58	580.23	4.74		0.35		1.5	0.35	583.65	3.42	
"ST-1D"																														
0+73.55	0+00.00	73.55	7	0.26	0.26	0.70	0.18	0.18	10	8.74	1.59	-	1.59	1	18"	0.013	105.03	1.77	0.0002	582.27	582.39	0.9		0.01		1.5	0.1	587.75	5.36	
"ST-1F"																														
0+95.22	0+07.08	88.14	6	0.70	0.70	0.70	0.49	0.49	10	8.74	4.28	-	4.28	1	18"	0.013	105.03	1.77	0.0017	583.42	583.66	2.42		0.09		1.5	0.09	584.5	0.84	
0+07.08	0+00.00	7.08			0.70	0.70	0.00	0.49	10	8.74	4.28	-	4.28	1	18"	0.013	105.03	1.77	0.0017	583.31	583.32	2.42	2.42	0.09	2.42	0.5	0.1	589.5	6.18	
"ST-1I"																														
0+62.44	0+10.00	52.44	5	2.41	2.41	0.70	1.69	1.69	10	8.74	14.74	-	14.74	1	18"	0.013	105.03	1.77	0.0197	585.32	587.44	8.33		1.08		1.5	1.08	588.5	1.06	
0+10.00	0+00.00	10.00			2.41	0.70	0.00	1.69	10	8.74	14.74	-	14.74	1	18"	0.013	105.03	1.77	0.0197	584.59	584.79	8.33	8.33	1.08	8.33	0.5	0.54	588.9	4.11	
"ST-1J"																														
0+17.22	0+06.67	10.55	3	0.85	0.85	0.70	0.60	0.60	10	8.74	5.20	-	5.20	1	18"	0.013	105.03	1.77	0.0025	585.42	585.58	2.94		0.13		1.5	0.13	587	1.42	
0+06.67	0+00.00	6.67			0.85	0.70	0.00	0.60	10	8.74	5.20	-	5.20	1	18"	0.013	105.03	1.77	0.0025	585.31	585.32	2.94	2.94	0.13	2.94	0.5	0.1	588	2.68	
"ST-2A"																														
1+14.15	1+04.19	9.96	26	1.01	1.01	0.70	0.71	0.71	10	8.74	6.18	-	6.18	1	18"	0.013	105.03	1.77	0.0035	582.39	582.62	3.49		0.19		1.5	0.19	583.55	0.93	
1+04.19	0+06.44	97.75			1.01	0.70	0.00	0.71	10	8.74	6.18	-	6.18	1	18"	0.013	105.03	1.77	0.0035	581.95	582.29	3.49	3.49	0.19	0.19	0.5	0.1	585	2.71	
0+06.44	0+00.00	6.44			1.01	0.70	0.00	0.71	10	8.74	6.18	-	6.18	1	18"	0.013	105.03	1.77	0.0035	581.83	581.85	3.49	3.49	0.19	0.19	0.5	0.1	590.6	8.75	
"ST-2F"																														
1+99.59	1+79.79	19.80	13	0.32	0.32	0.70	0.22	0.22	10	8.74	1.96	-	1.96	1	18"	0.013	105.03	1.77	0.0003	586.81	586.91	1.11		0.02		1.5	0.1	590.2	3.29	
1+79.79	1+68.95	10.84			0.32	0.70	0.00	0.22	10	8.74	1.96	-	1.96	1	18"	0.013	105.03	1.77	0.0003	586.70	586.71	1.11	1.11	0.02	0.02	0.5	0.1	591	4.29	
1+68.95	1+64.96	3.99	15	0.10	0.42	0.70	0.07	0.29	10	8.74	2.57	-	2.57	1	18"	0.013	105.03	1.77	0.0006	586.60	586.60	1.45	1.11	0.03	0.02	0.75	0.1	591	4.40	
1+64.96	1+04.96	60.00	16	0.07	0.49	0.70	0.05	0.34	10	8.74	3.00	-	3.00	1	18"	0.013	105.03	1.77	0.0008	586.45	586.50	1.69	1.45	0.04	0.03	0.75	0.1	591.1	4.60	
1+04.96	0+59.96	45.00	17	0.10	0.59	0.70	0.07	0.41	10	8.74	3.61	-	3.61	1	18"	0.013	105.03	1.77	0.0012	586.30	586.35	2.04	1.69	0.06	0.04	0.75	0.1	591.1	4.75	
0+59.96	0+07.30	52.66	18	0.06	0.65	0.70	0.04	0.46	10	8.74	3.98	-	3.98	1	18"	0.013	105.03	1.77	0.0014	586.12	586.20	2.25	2.04	0.08	0.06	0.75	0.1	591.1	4.90	
0+07.30	0+00.00	7.30			0.65	0.70	0.00	0.46	10	8.74	3.98	-	3.98	1	18"	0.013	105.03	1.77	0.0014	586.01	586.02	2.25	2.25	0.08	0.08	0.5	0.1	591	4.98	

BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
BM# 1	" ⊞ " CUT SET ON THE NORTHWEST CORNER OF A Y-INLET ON THE NORTH SIDE OF SPRING VALLEY ROAD, 9'± WEST OF THE SOUTHEAST CORNER OF THE SITE. ELEV=585.61
BM# 2	" ⊞ " CUT SET ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A LIGHT STANDARD, 236'± SOUTH OF THE NORTH PROPERTY LINE AND 40'± WEST OF THE EAST PROPERTY LINE.
BM# 3	" ⊞ " CUT SET ON THE NORTH CURB OF SIDNEY DRIVE, NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF SIDNEY DRIVE AND WOODWAY DRIVE. ELEV=582.06
BM# 4	" ⊞ " CUT SET ON AN INLET BOX ON THE SOUTH SIDE OF SPRING VALLEY ROAD, 220'± EAST OF WOODWAY DRIVE. ELEV=583.14



INDEX MAP
(NOT TO SCALE)



GRAPHIC SCALE IN FEET

LEGEND

B.	BOLLARD
EM	ELECTRIC METER
PP •	POWER POLE
LS ☼	LIGHT STANDARD
WM ○	WATER METER
WV ⊗	WATER VALVE
ICV ⊗	IRRIGATION CONTROL VALVE
FH ◇	FIRE HYDRANT
CO ○	CLEANOUT
MH ◎	MANHOLE
TSC □	TRAFFIC SIGNAL CONTROL
TSP •	TRAFFIC SIGNAL POLE
TELE □	TELEPHONE BOX
☼	FLOOD LIGHT
FP •	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
— — —	PROPERTY LINE
—X—	FENCE
—OHL—	OVERHEAD UTILITY LINE
—E—	UNDERGROUND ELECTRIC LINE
—T—	UNDERGROUND TELEPHONE LINE
—C—	UNDERGROUND CABLE LINE
—6"W—	UNDERGROUND WATER LINE
—6"SS—	UNDERGROUND SANITARY SEWER LINE
▬	PROPOSED 100-YR FLOODPLAIN LIMITS

GRADING AND DRAINAGE GENERAL NOTES

1. REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
2. UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN A MAXIMUM OF 6" LIFTS.
3. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN 2% UNLESS NOTED OTHERWISE.
4. GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO STATE, LOCAL AND FEDERAL GUIDELINES.
5. UNLESS NOTED, STORM DRAIN LINES MAY BE OF THE FOLLOWING MATERIALS:
   A. RCP C-76, CLASS III W/ GASKETED JOINTS
   B. ADS N-12 W/ GASKETED WATER TIGHT JOINTS
   C. ADS ECOFIRST W/ GASKETED WATER TIGHT JOINTS
   AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. UNLESS NOTED, GRATE INLET TO BE "AMERICAN INDUSTRIAL PRE-CAST PRODUCTS, INC." PRECAST CATCH BASIN, SIZED AS SHOWN, OF APPROVED EQUAL.
7. FINAL PAVING, CURB AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
8. REFER TO LANDSCAPE SPECIFICATION FOR SEEDING AND SODDING REQUIREMENTS.
9. ANY CONCRETE, ROCK OR MATERIAL DEEMED UNSUITABLE FOR SUBGRADE, BY ENGINEER, SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
10. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD TOWN SPECIFICATIONS.
11. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD TOWN SPECIFICATIONS.
12. A ROUND MANHOLE COVER MEETING TOWN SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS. THE MANHOLE COVER SHALL BE PLACED NEAR THE OUTLET PIPE.
13. ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD TOWN SPECIFICATIONS.
14. CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM OF THE CRUSHED STONE BEDDING.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.

LOGAN H. McWHORTER
102254

4/8/10

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LOGAN H. McWHORTER, P.E. 102254 ON 04/08/2010. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION
1	05/13/2010	REVISED INLET TO NO. 30 GRATE INLET

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

STORM DRAINAGE PLAN

GEORGE H.W. BUSH ELEM SCHOOL
DALLAS INDEPENDENT SCHOOL DISTRICT
10.000 ACRES
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C3.7

GEORGE H.W. BUSH ELEMENTARY SCHOOL

PK FILE: 1170-09.059
DWG FILE: 1170-09.59ST.DWG

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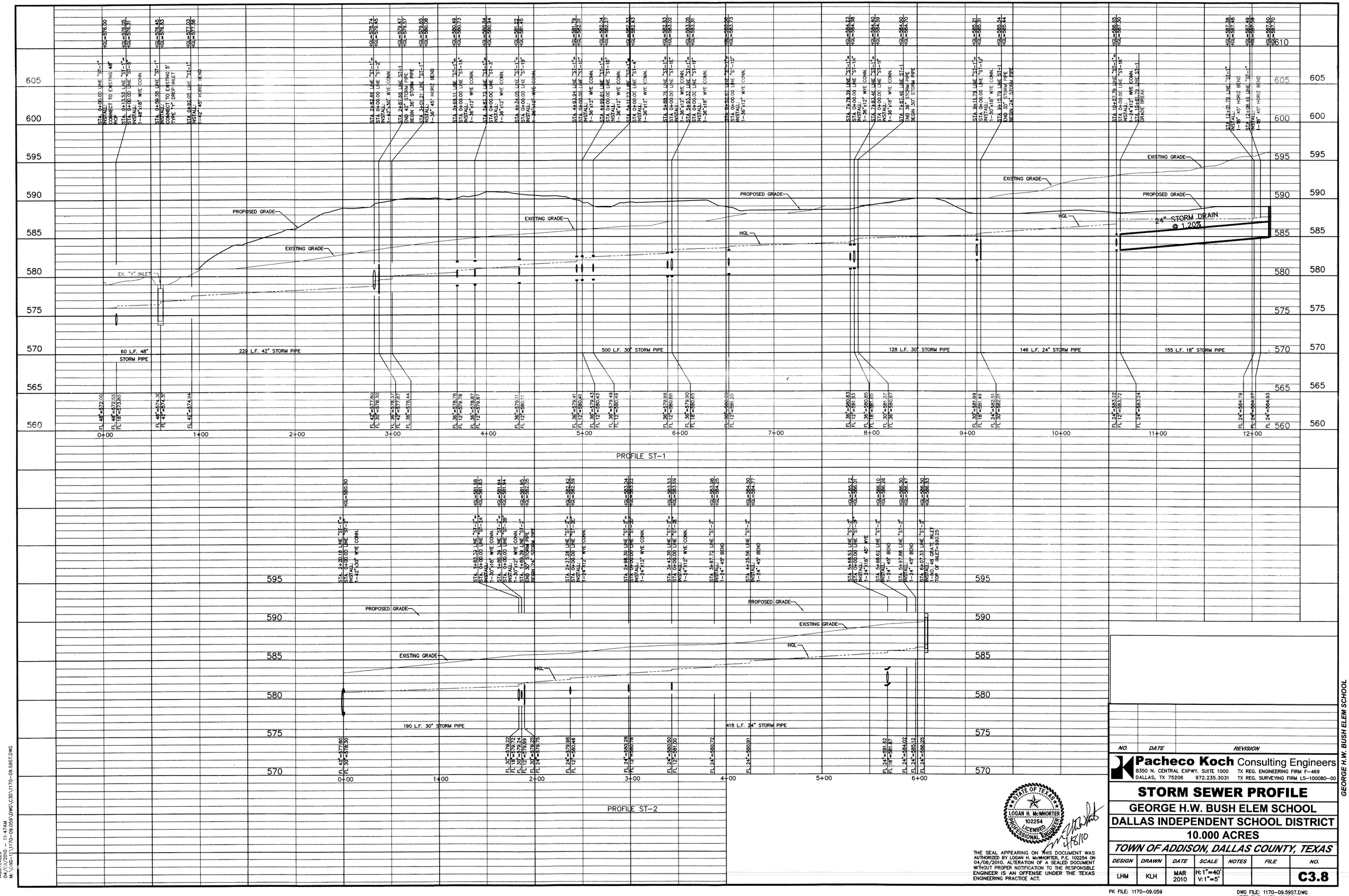

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-100080-00

STORM SEWER PROFILE

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	H:1"=40' V:1"=5'			C3.8

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED PROFESSIONAL ENGINEER
4/8/10

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LOGAN H. McWHORTER, P.E. 102254 ON 04/08/2010. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

PK FILE: 1170-09.059

DWG FILE: 1170-09.59ST.DWG
XREF FILE: 1170-09.59B4.DWG

GEORGE H.W. BUSH ELEM SCHOOL

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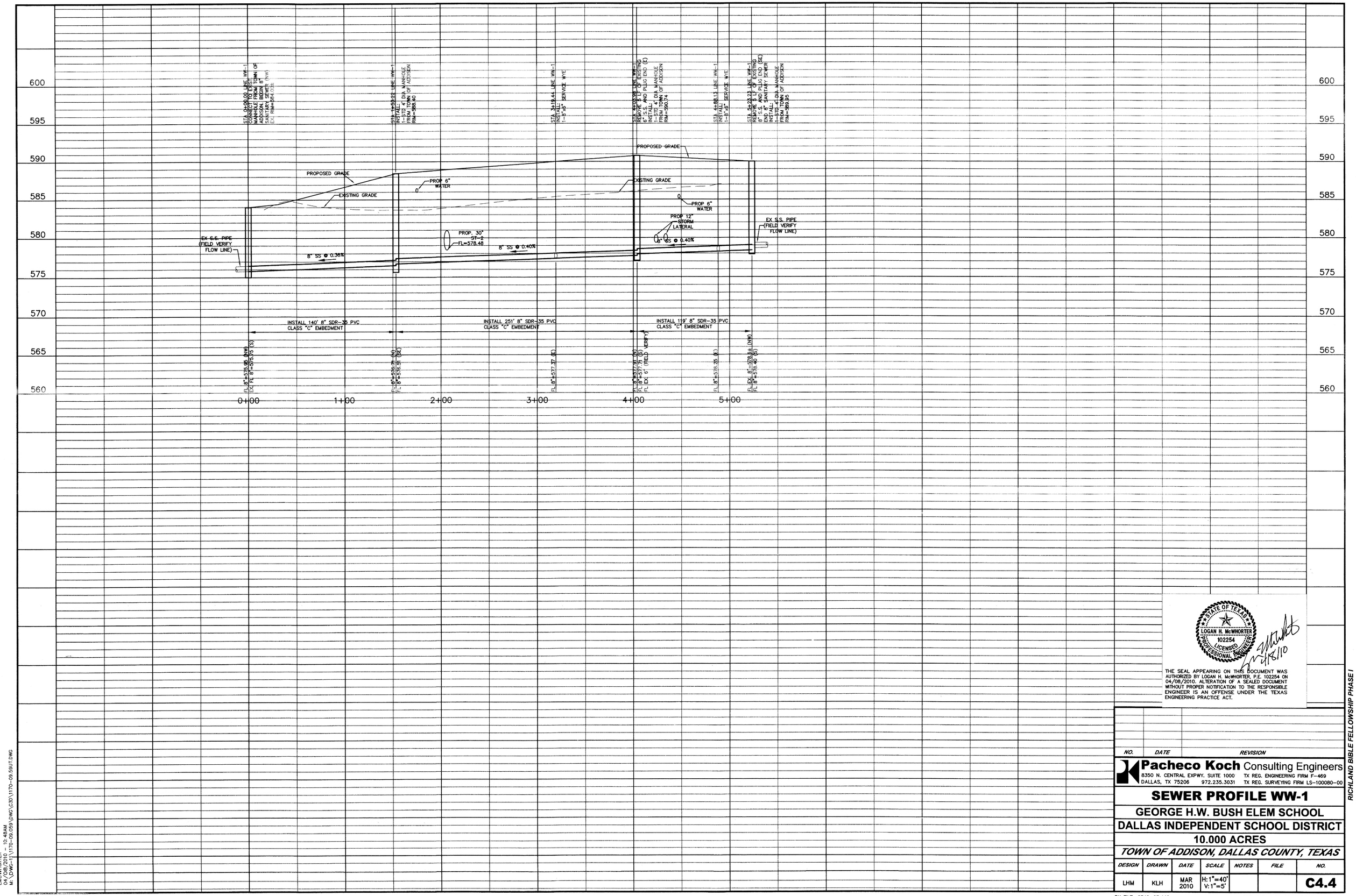

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

SEWER PROFILE WW-1

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	H:1"=40' V:1"=5'			C4.4

RICHLAND BIBLE FELLOWSHIP PHASE I

PK FILE: 2540-05.440

DWG FILE: 1170-09.59UT.DWG

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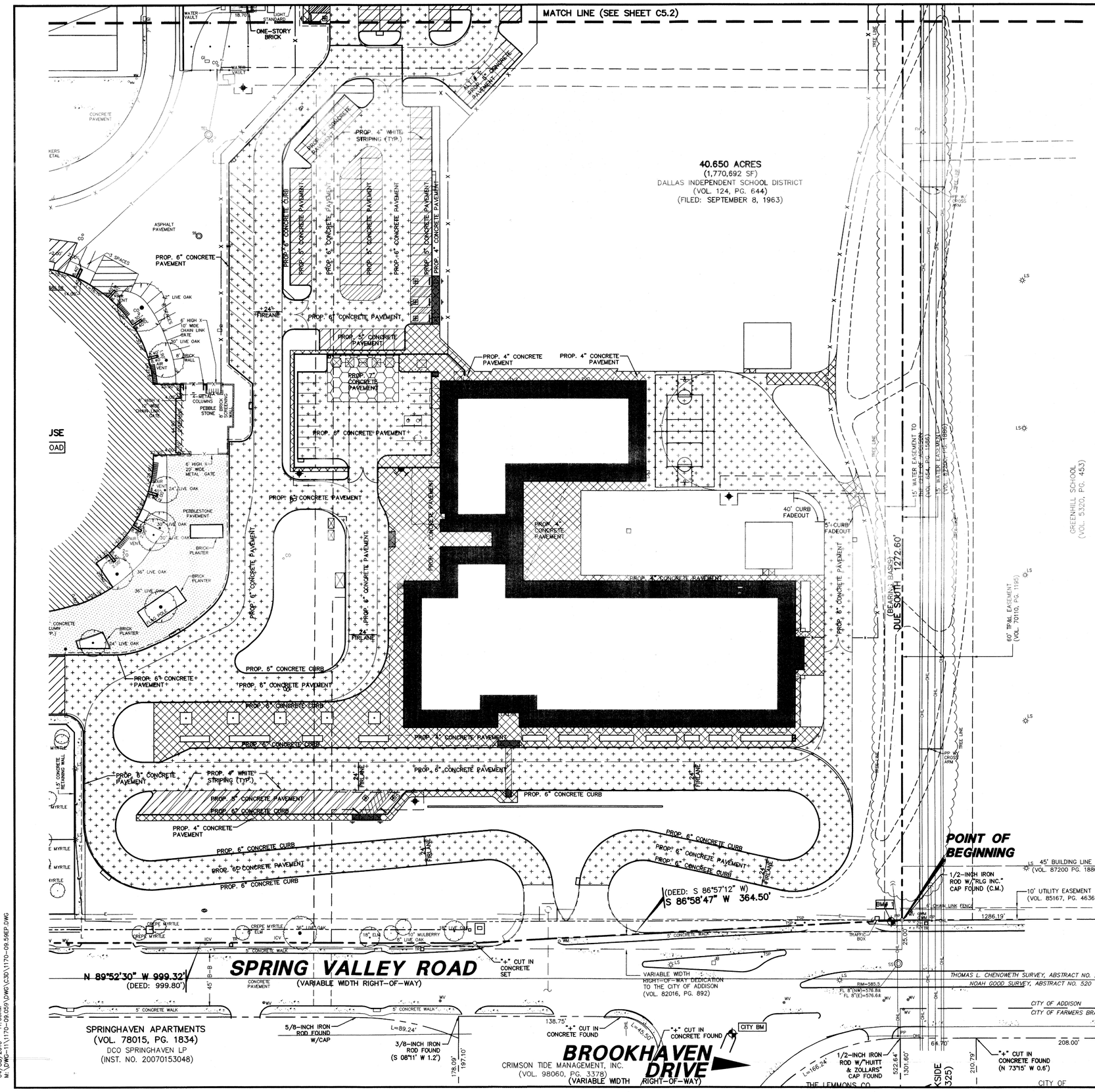

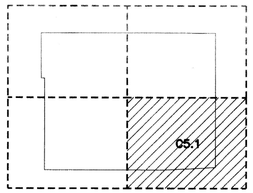

INDEX MAP
(NOT TO SCALE)

0 20 40 80 120
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B.	BOLLARD
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STATE OF TEXAS
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102254
LICENSED
PROFESSIONAL ENGINEER
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GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C5.1

PK FILE: 1170-09.059
DWG FILE: 1170-09.59EP.DWG

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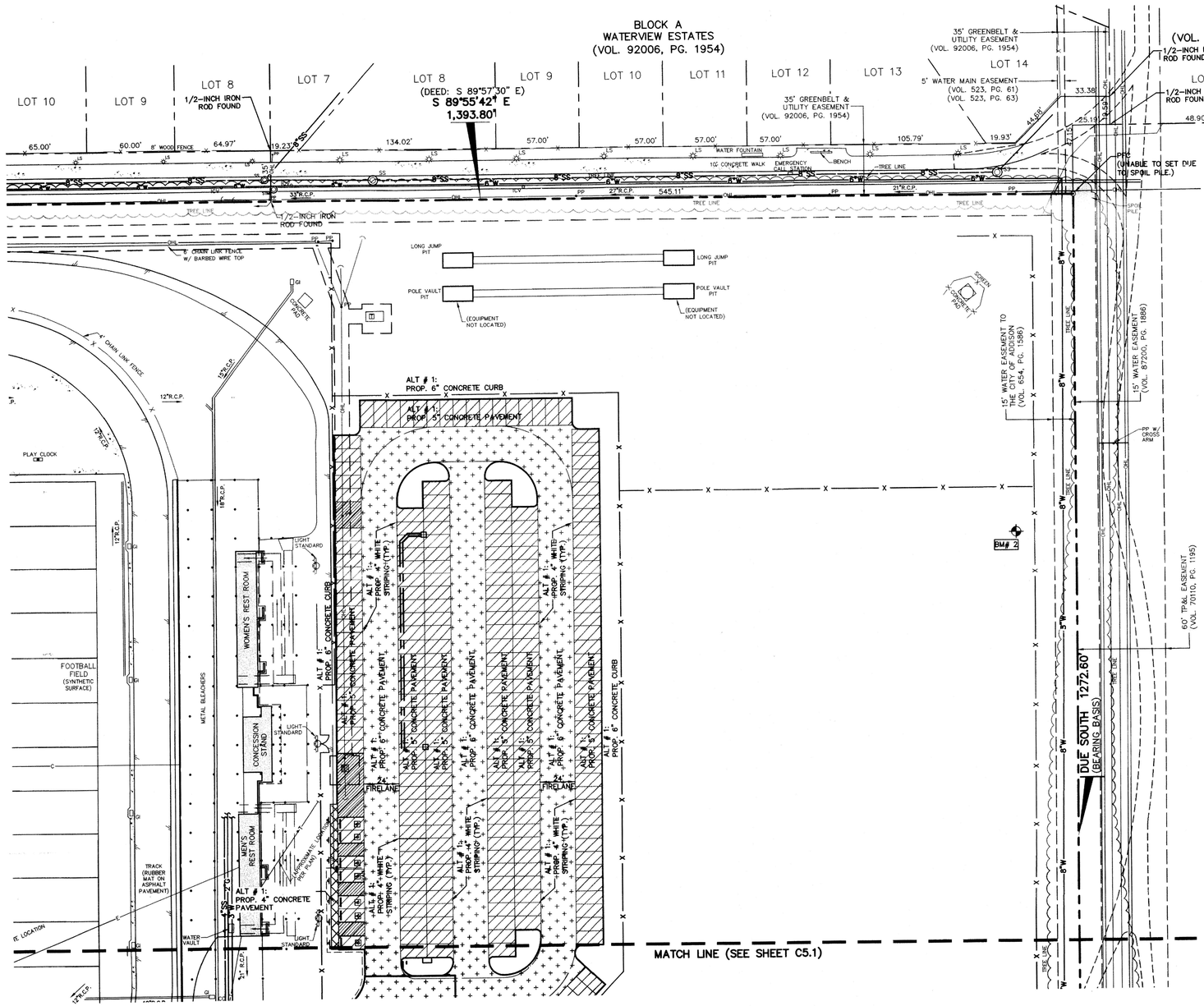

BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
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BM# 2	" ⊞ " CUT SET ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A LIGHT STANDARD, 236'± SOUTH OF THE NORTH PROPERTY LINE AND 40'± WEST OF THE EAST PROPERTY LINE.
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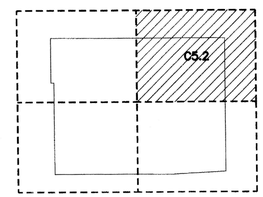

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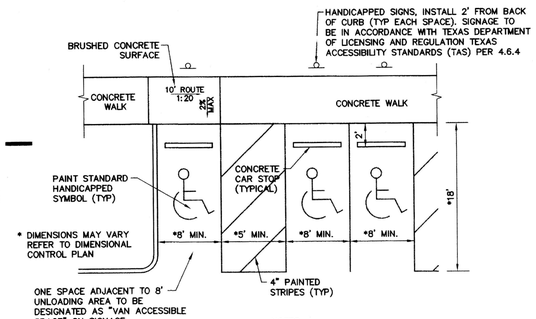

NOTES:
1. MAXIMUM SLOPE FOR ALL PATHS 5%, MAX CROSS FALL IS 2%; FOR THE FIRST FIVE FEET FROM THE DOOR A 2% SLOPE (MAX) MUST BE MAINTAINED.
2. SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

90° HANDICAP PARKING & ACCESS ROUTE WITHOUT RAMP
1
NOT TO SCALE

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED PROFESSIONAL ENGINEER
4/8/10

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DALLAS INDEPENDENT SCHOOL DISTRICT
10.000 ACRES
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

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DWG FILE: 1170-09.59EP.DWG
XREF FILE: 1170-09.59BA.DWG

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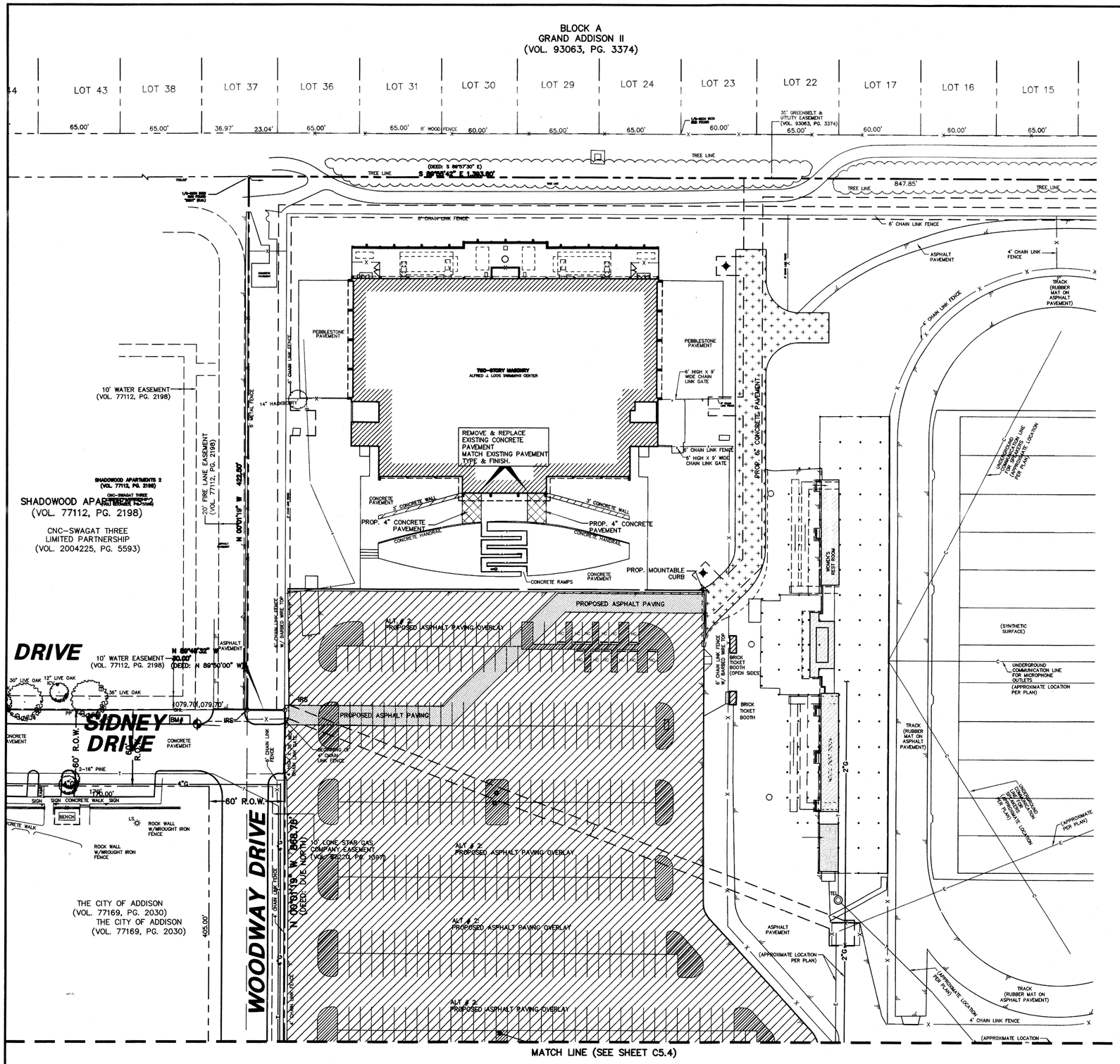

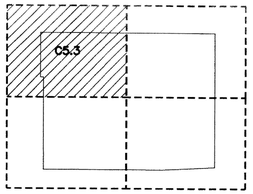

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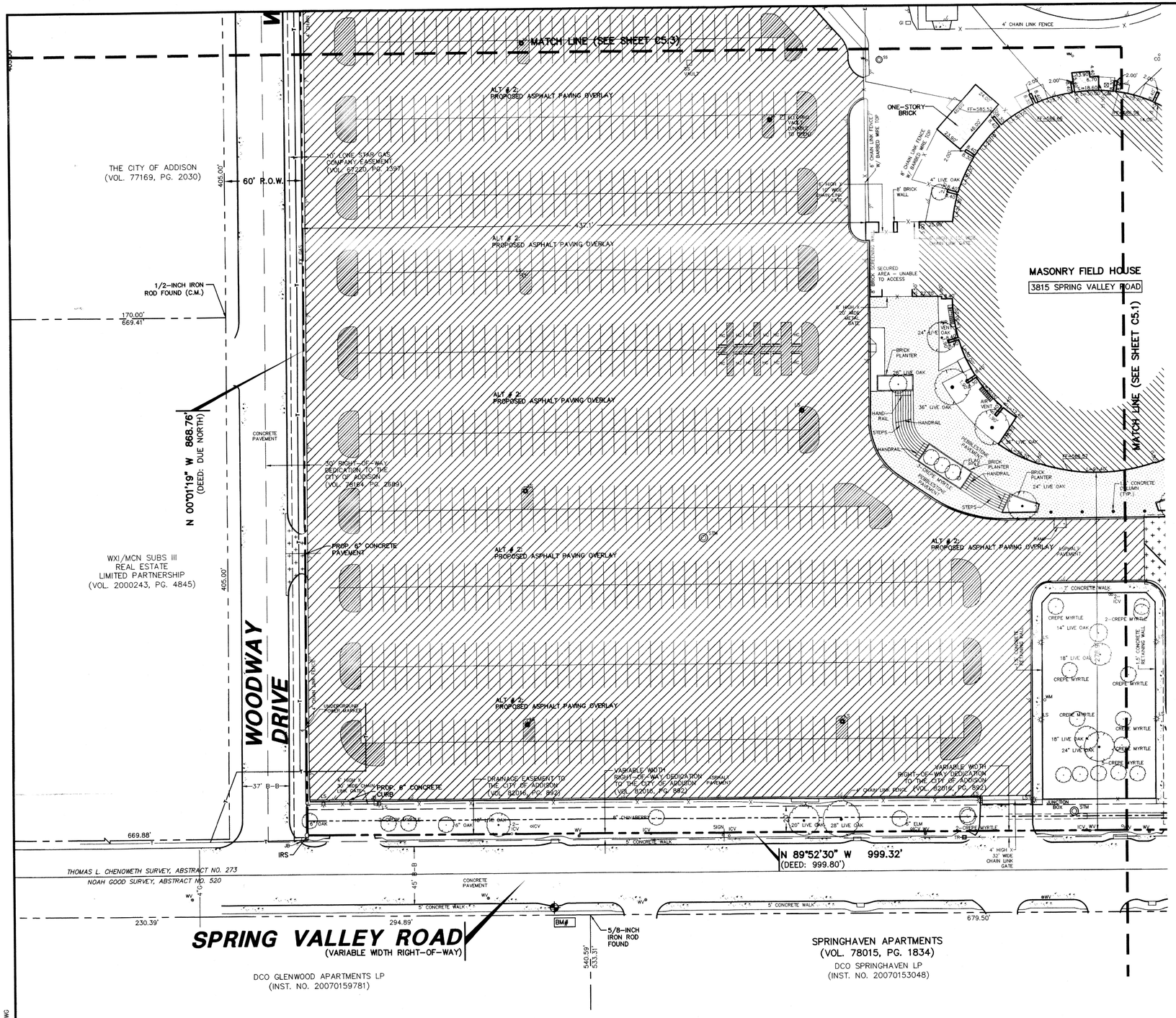

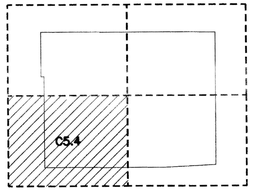

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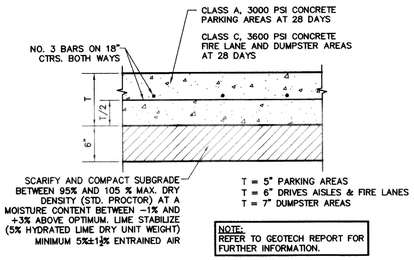
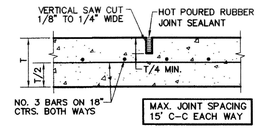


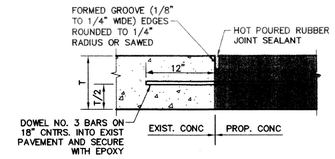
1 CONCRETE PAVEMENT SECTION

NOT TO SCALE



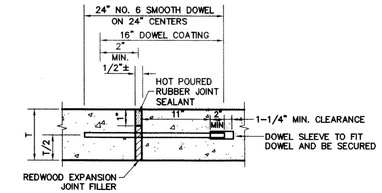
2 SAWED DUMMY JOINT

NOT TO SCALE



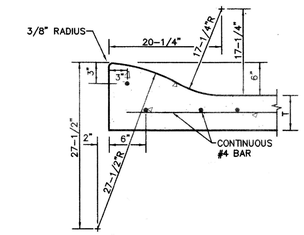
3 PAVEMENT CONNECTION

NOT TO SCALE



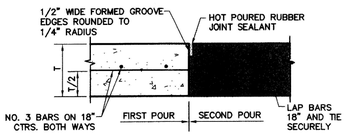
4 EXPANSION JOINT

NOT TO SCALE



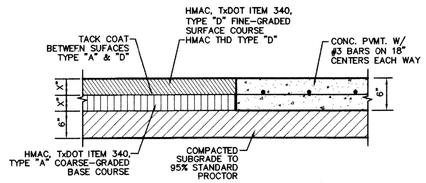
5 MOUNTABLE CURB

NOT TO SCALE



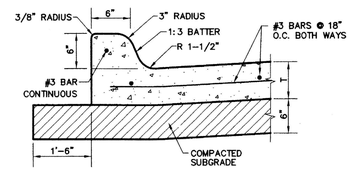
6 CONSTRUCTION JOINT

NOT TO SCALE



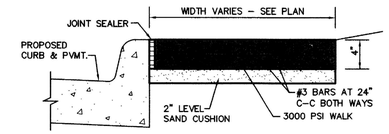
7 ASPHALT/CONCRETE TRANSITION

NOT TO SCALE



8 INTEGRAL CURB

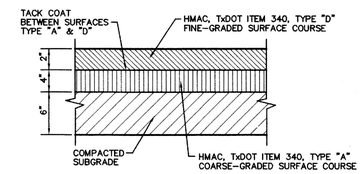
NOT TO SCALE



NOTES:
1. PROVIDE TOOLED JOINTS AT 4' SPACING. PROVIDE REDWOOD EXPANSION JOINTS AT 32' SPACINGS.
2. PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE.

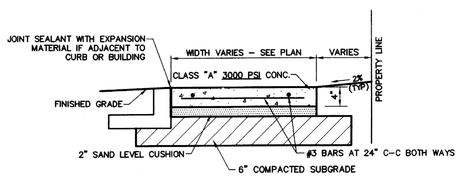
9 WALK AT PROPOSED CURB

NOT TO SCALE



10 ASPHALT PAVEMENT SECTION

NOT TO SCALE

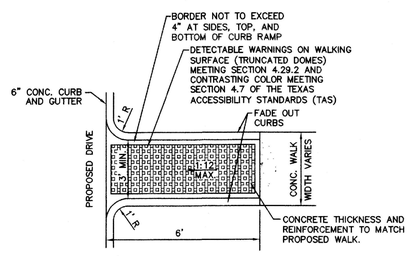


PROVIDE BITUMINOUS EXPANSION MATERIAL WHERE WALK ABUTS EXISTING IMPROVEMENTS AND AT ALL CHANGES IN GRADE

PROVIDE TOOLED JOINTS AT SPACING EQUAL TO WIDTH. PROVIDE REDWOOD EXPANSION JOINTS AT 32' SPACING UNLESS NOTED DIFFERENTLY ON ARCHITECTURAL OR LANDSCAPE PLANS

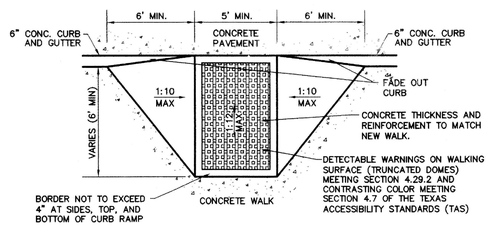
11 CONCRETE WALK PRIVATE

NOT TO SCALE



12 SINGLE CURB RAMP

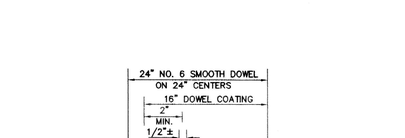
NOT TO SCALE



NOTES:
1. MAXIMUM SLOPE FOR ALL PATHS 5% MAX CROSS FALL IS 2% FOR THE FIRST FIVE FEET FROM THE DOOR A 2% SLOPE (MAX) MUST BE MAINTAINED.
2. SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

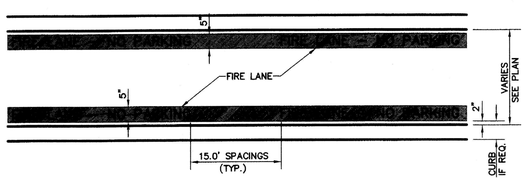
13 FLARED CURB RAMP

NOT TO SCALE



14 ASPHALT OVERLAY PAVEMENT SECTION

NOT TO SCALE

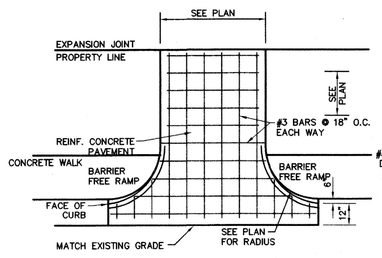


GENERAL NOTE:
A. STRIPING TO BE DONE IN ACCORDANCE WITH CITY STANDARDS.

STRIPING DETAIL NOTE:
A. PAINT:
1. STRIPE SHALL BE FIVE (5) INCHES WIDE PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT.
   A. COLOR SHALL BE "TRAFFIC RED" GLIDDEN NO. 63251 OR EQUAL.
2. LETTERS SHALL BE FOUR (4) INCHES HIGH PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT.
   B. COLOR SHALL BE "TRAFFIC WHITE" GLIDDEN NO. 563245 OR EQUAL.
B. APPLICATION:
1. STRIPE MAY BE BRUSHED OR SPRAYED, ONE COAT TO FINISH.
2. LETTERS SHALL BE STENCIL FORMED, BRUSH APPLIED AND SPACED AS DETAILED ON THIS SHEET.

15 FIRE LANE STRIPING

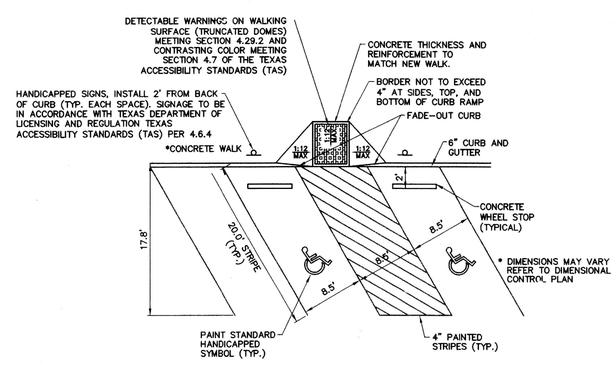
NOT TO SCALE



DRIVE TO BE CONSTRUCTED IN ACCORDANCE WITH TOWN OF ADDISON, TEXAS STANDARDS.

16 DRIVEWAY APPROACH

NOT TO SCALE



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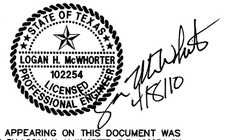
17 HANDICAP PARKING W/ ANGLED CURB RAMP

NOT TO SCALE



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NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

PAVING DETAILS

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

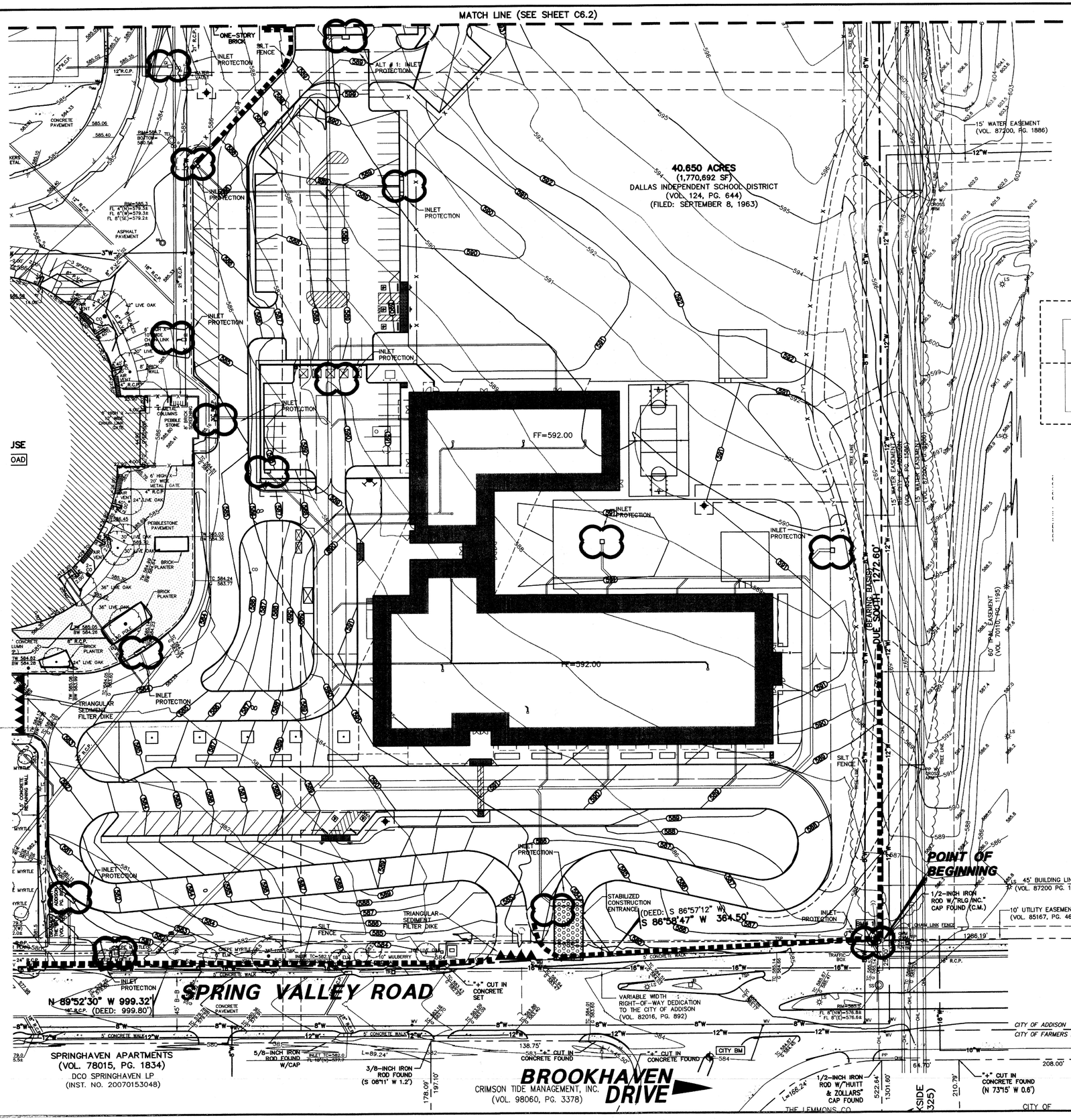
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C5.5

PK FILE: 1170-09.059

DWG FILE: 1170-09.59EP.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

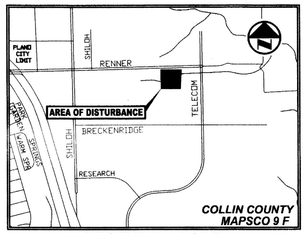
LMCWHORTER
04/08/2010 – 11:31AM
M:\DWG-11\1170-09.059\DWG\C3D\1170-09.59EP.DWG



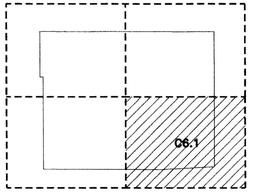
LEGEND

B.	BOLLARD		PROPERTY LINE
EM	ELECTRIC METER	x	FENCE
PP	POWER POLE	613	EXISTING CONTOUR
LS	LIGHT STANDARD	577	PROPOSED CONTOUR
WM	WATER METER		PROPOSED DRAINAGE FLOW DIRECTION
WV	WATER VALVE		PROPOSED CONSTRUCTION ENTRANCE
ICV	IRRIGATION CONTROL VALVE		INLET PROTECTION
FH	FIRE HYDRANT		SILT FENCE (LIMITS OF DISTURBED AREA)
CO	CLEANOUT		TRIANGULAR SEDIMENT FILTER DIKE
MH	MANHOLE		
TSC	TRAFFIC SIGNAL CONTROL		
TSP	TRAFFIC SIGNAL POLE		
TELE	TELEPHONE BOX		
FL	FLOOD LIGHT		
FP	FLAG POLE		
SIGN	TRAFFIC SIGN		
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET		
(C.M.)	CONTROLLING MONUMENT		

0 20 40 80 120
GRAPHIC SCALE IN FEET



VICINITY MAP
(NOT TO SCALE)



INDEX MAP
(NOT TO SCALE)

POLLUTION CONTROL GENERAL NOTES

1. THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
   - A. CLEARING AND GRUBBING
   - B. ROUGH GRADING
   - C. FINAL GRADING
   - D. UTILITY INSTALLATION
   - E. PAVEMENT INSTALLATION
   - F. BUILDING CONSTRUCTION
3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 10 ACRES.
4. THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.90.
5. THE STORM WATER EXITING THE SITE IS COLLECTED IN AN EXISTING DRAINAGE SYSTEM MAINTAINED BY THE TOWN OF ADDISON, TEXAS.
6. THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
8. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
9. ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED FOR A MINIMUM OF 21 DAYS MUST BE STABILIZED BY THE CONTRACTOR TO CONTROL EROSION.
10. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
11. THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING SEDIMENT AND EROSION CONTROL.
12. A COPY OF THIS PLAN MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
13. CONSTRUCTION SEQUENCING MUST PROVIDE FOR THE EXCAVATION OF AN ON-SITE BASIN AS A SEDIMENT COLLECTION BASIN PRIOR TO THE DISTURBANCE OF GREATER THAN 10 ACRES OF LAND.
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17. IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.
18. TO PREVENT DAMAGE TO VEGETATION IN DOWNSTREAM WATER COURSES, LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. GEOTEXTILE FABRIC IS NOT EFFECTIVE IN FILTERING LIME SINCE THE GRAIN SIZE IS SMALLER THAN THE OPENING IN THE FABRIC.
19. VEHICLE PARKING AREAS, STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCIRCLING THE AREAS WITH PROTECTIVE MEASURES SHALL BE NECESSARY.
20. STORE ALL TRASH AND BUILDING MATERIALS WASTE IN AN ENCLOSURE UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES.
21. TRACKING OF SEDIMENT OFF SITE BY TRUCK TRAFFIC SHALL BE HANDLED THROUGH REGULAR CLEANING.
22. INSPECTIONS SHALL BE CONDUCTED BY THE PERMITEE ONCE EVERY 2 WEEKS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 0.5 INCHES OR MORE. THE INSPECTIONS WILL INCLUDE:
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24. PERMANENTLY STABILIZE EXPOSED SOIL, WITHIN AND ADJACENT TO THE SITE, THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION ACTIVITIES.
25. CONTAIN ALL RUNOFF FROM MATERIAL USED IN SUBGRADE STABILIZATION.
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STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
BM# 1	" ⊞ " CUT SET ON THE NORTHWEST CORNER OF A Y-INLET ON THE NORTH SIDE OF SPRING VALLEY ROAD, 9'± WEST OF THE SOUTHEAST CORNER OF THE SITE. ELEV=585.61
BM# 2	" ⊞ " CUT SET ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A LIGHT STANDARD, 236'± SOUTH OF THE NORTH PROPERTY LINE AND 40'± WEST OF THE EAST PROPERTY LINE.
BM# 3	" ⊞ " CUT SET ON THE NORTH CURB OF SIDNEY DRIVE, NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF SIDNEY DRIVE AND WOODWAY DRIVE. ELEV=582.06
BM# 4	" ⊞ " CUT SET ON AN INLET BOX ON THE SOUTH SIDE OF SPRING VALLEY ROAD, 220'± EAST OF WOODWAY DRIVE. ELEV=583.14

NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-100080-00

EROSION CONTROL PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C6.1

GEORGE H.W. BUSH ELEMENTARY SCHOOL

LMCWHORTER
04/08/2010 - 11:32AM
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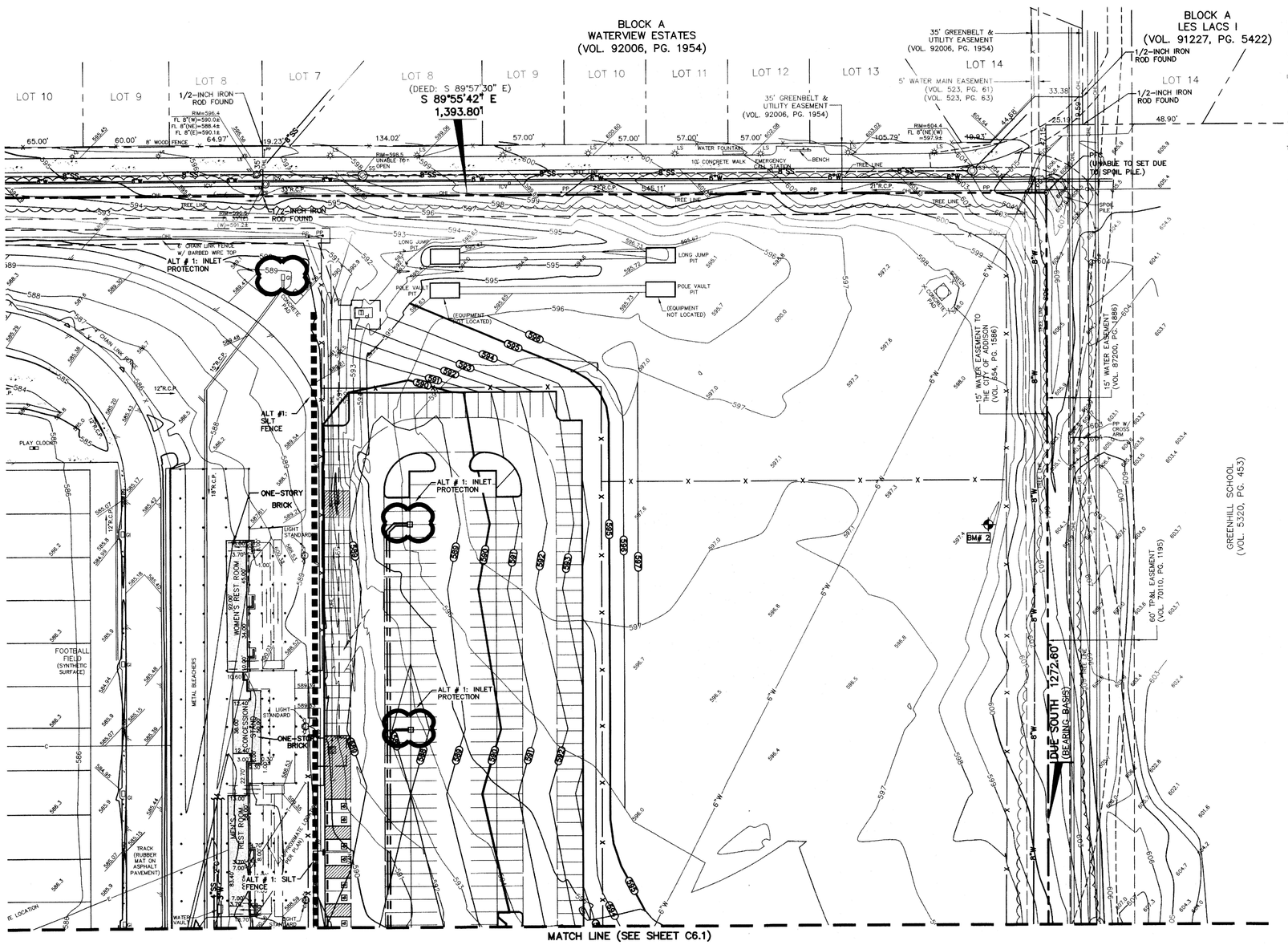
PK FILE: 1170-09.059 DWG FILE: 1170-09.59EP.DWG



LEGEND

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0 20 40 80 120
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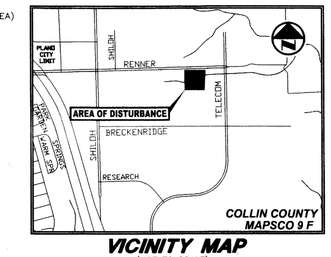

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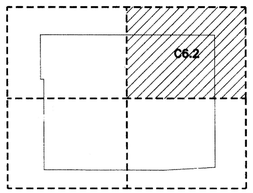

INDEX MAP
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BENCH MARK LIST

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BM# 2	" □ " CUT SET ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A LIGHT STANDARD, 236'± SOUTH OF THE NORTH PROPERTY LINE AND 40'± WEST OF THE EAST PROPERTY LINE.
BM# 3	" □ " CUT SET ON THE NORTH CURB OF SIDNEY DRIVE, NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF SIDNEY DRIVE AND WOODWAY DRIVE. ELEV=582.06
BM# 4	" □ " CUT SET ON AN INLET BOX ON THE SOUTH SIDE OF SPRING VALLEY ROAD, 220'± EAST OF WOODWAY DRIVE. ELEV=583.14

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

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NO.	DATE	REVISION

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000 DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-100080-00

EROSION COTROL PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C6.2

GEORGE H.W. BUSH ELEMENTARY SCHOOL

LMCWHORTER
04/08/2010 - 11:32AM
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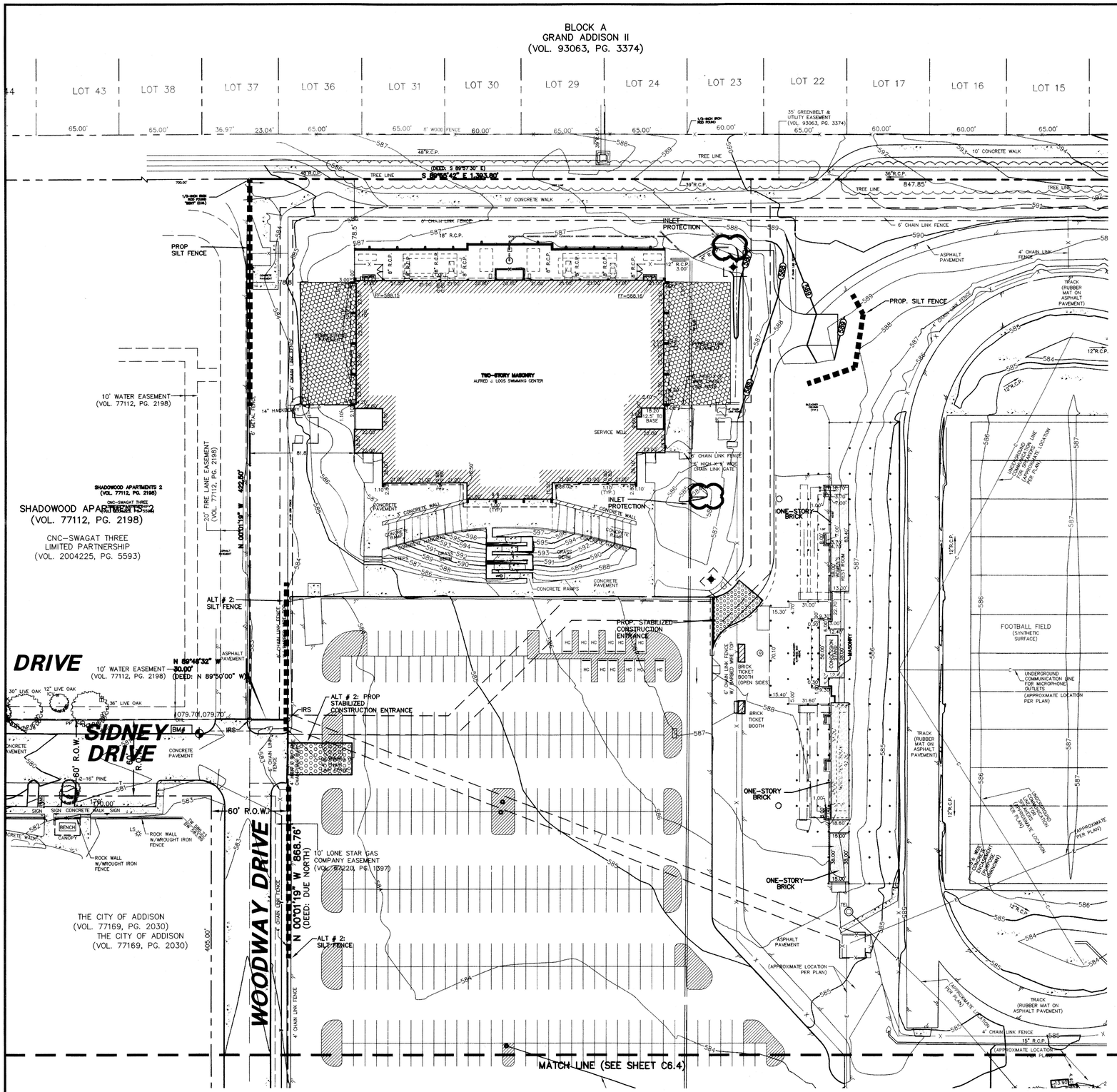
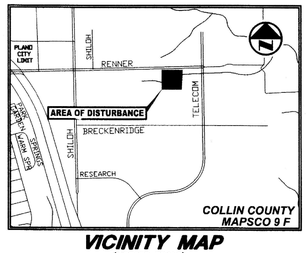
PK FILE: 1170-09.059 DWG FILE: 1170-09.59EP.DWG



LEGEND

B	BOLLARD		PROPERTY LINE
EM	ELECTRIC METER		FENCE
PP	POWER POLE	613	EXISTING CONTOUR
LS	LIGHT STANDARD	577	PROPOSED CONTOUR
WM	WATER METER		PROPOSED DRAINAGE FLOW DIRECTION
WV	WATER VALVE		PROPOSED CONSTRUCTION ENTRANCE
ICV	IRRIGATION CONTROL VALVE		INLET PROTECTION
FH	FIRE HYDRANT		SILT FENCE (LIMITS OF DISTURBED AREA)
CO	CLEANOUT		TRIANGULAR SEDIMENT FILTER DIKE
MH	MANHOLE		
TSC	TRAFFIC SIGNAL CONTROL		
TSP	TRAFFIC SIGNAL POLE		
TELE	TELEPHONE BOX		
	FLOOD LIGHT		
FP	FLAG POLE		
SIGN	TRAFFIC SIGN		
IRS	1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET		
(C.M.)	CONTROLLING MONUMENT		

0 20 40 80 120
GRAPHIC SCALE IN FEET



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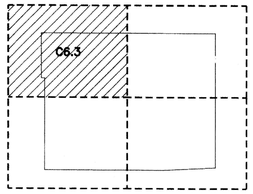

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POLLUTION CONTROL GENERAL NOTES

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2. THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
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   E. PAVEMENT INSTALLATION
   F. BUILDING CONSTRUCTION
3. THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 10 ACRES.
4. THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.90.
5. THE STORM WATER EXITING THE SITE IS COLLECTED IN AN EXISTING DRAINAGE SYSTEM MAINTAINED BY THE TOWN OF ADDISON, TEXAS.
6. THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
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EROSION CONTROL PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

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PK FILE: 1170-09.059
DWG FILE: 1170-09.59EP.DWG

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04/08/2010 -- 11:33AM
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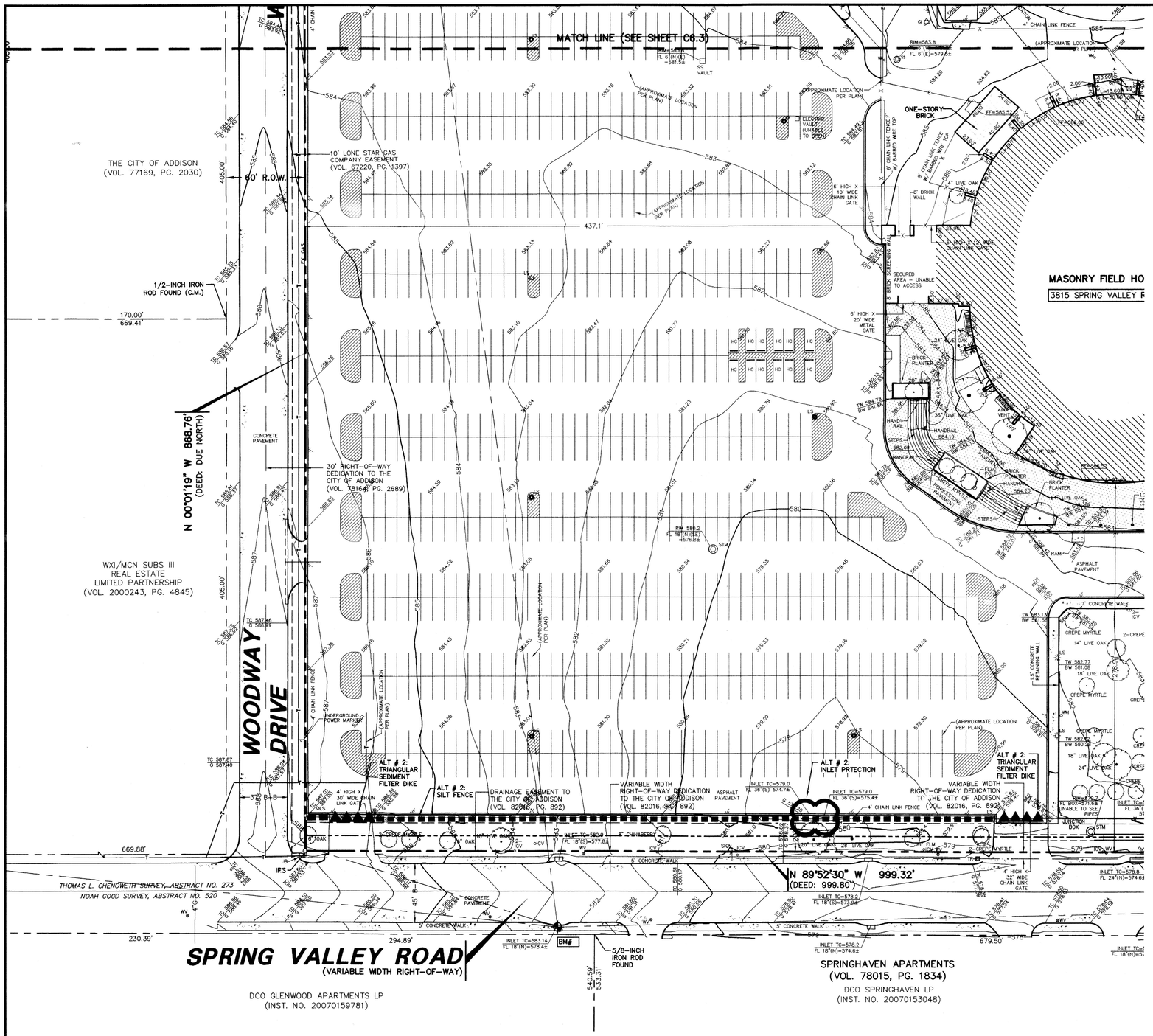

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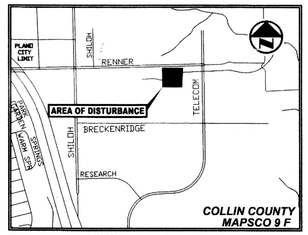

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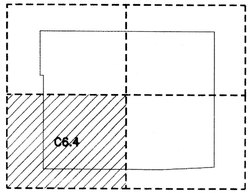

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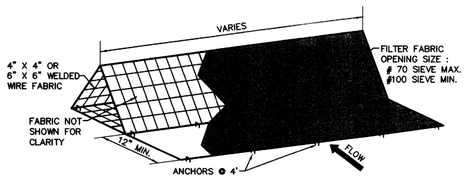
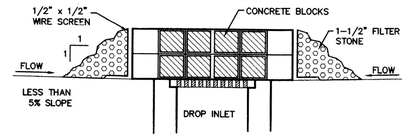


ISOMETRIC PLAN VIEW

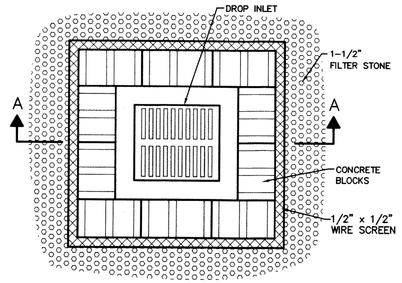
NOTES :
1. DIKES ARE TO BE INSTALLED ALONG A LINE OF CONSTANT ELEVATION (ALONG A CONTOUR LINE).
2. MAXIMUM SLOPE PERPENDICULAR TO THE DIKE IS 1:1.
3. MAXIMUM DRAINAGE FLOW TO THE DIKE SHALL BE 11 CFS PER 100 LINEAR FEET OF DIKE.
4. MAXIMUM DISTANCE OF FLOW TO DIKE SHOULD BE 200 FEET OR LESS.
5. MAXIMUM CONCENTRATED FLOW TO DIKE SHALL BE 1 CFS.
6. IF 50% OR LESS OF SOIL, BY WEIGHT, PASSES THE U.S. STANDARD SIEVE No. 200, SELECT THE EQUIVALENT OPENING SIZE (E.O.S.) TO RETAIN 85% OF THE SOIL.

1 TRIANGULAR SEDIMENT FILTER DIKE

NOT TO SCALE



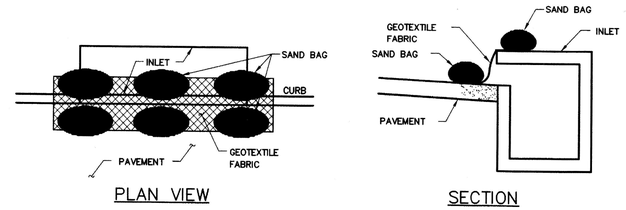
SECTION A–A



PLAN VIEW

2 DROP INLET PROTECTION

NOT TO SCALE

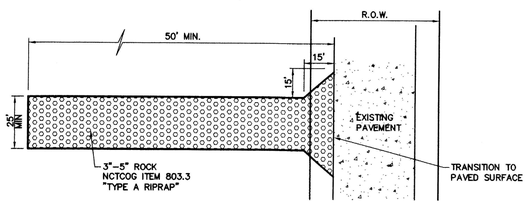


PLAN VIEW

SECTION

3 CURB INLET PROTECTION TYPE "C"

NOT TO SCALE



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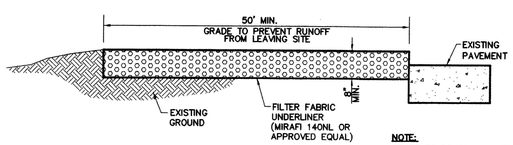
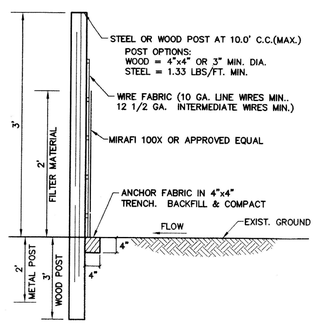


NOTE:
GRADE TO DRAIN AWAY FROM STABILIZATION AND STREET PAVED SURFACE. DRAINAGE MUST FLOW AWAY FROM ENTRANCE.

PROFILE

4 STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



5 SILT FENCE

NOT TO SCALE

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PK FILE: 1170-09.059

DWG FILE: 1170-09.59EP.DWG

XREF FILE: 1170-09.59BA.DWG

GEORGE H.W. BUSH ELEMENTARY SCHOOL

LMCWHORTER
04/08/2010 11:33AM
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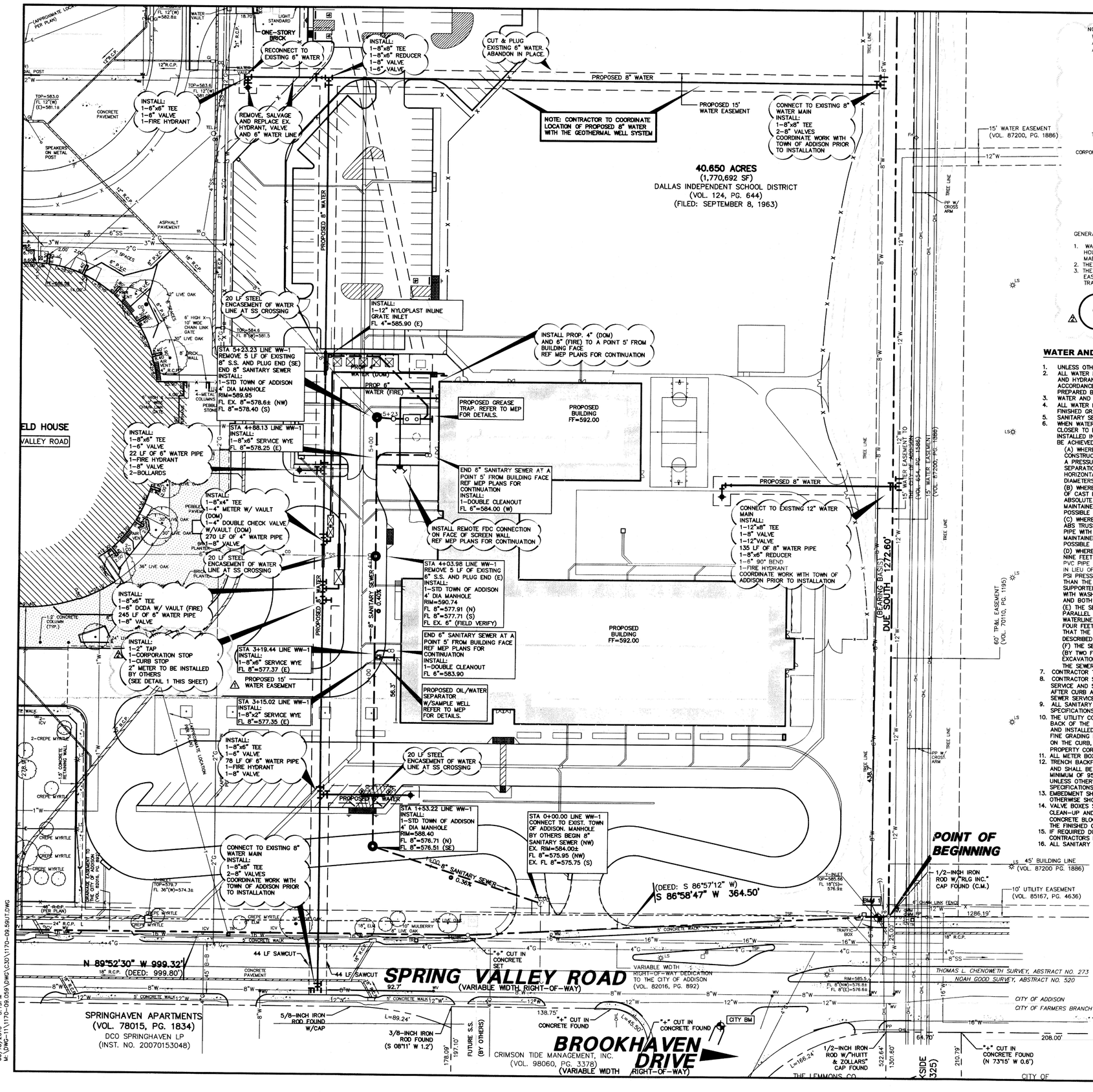
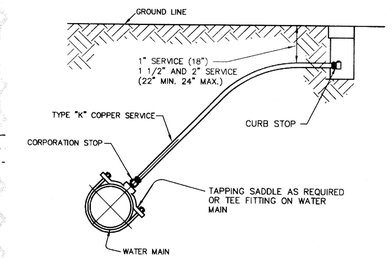


NOTE:
WATER SERVICES SHALL NOT BE CONNECTED TO FIRE HYDRANT LINES. ALL MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.



GENERAL INSTALLATION NOTES:

1. WATER METER SHALL BE PLACED IN CENTER OF LOT WITH THE SANITARY SEWER HOUSE CONNECTION TO BE LOCATED 10 FEET DOWNSTREAM. ALL TAPS SHALL BE MADE AT A 45° ANGLE TO THE CENTERLINE OF THE PIPE.
2. THE CONTRACTOR SHALL SET THE METER BOX IN ALL CASES.
3. THE METER BOX SHALL BE SET WITHIN THE RIGHT-OF-WAY OR A DEDICATED UTILITY EASEMENT. IN ALL CASES THE METER BOX SHALL BE PROTECTED FROM VEHICULAR TRAFFIC.

1 SERVICE CONNECTION

NOT TO SCALE

WATER AND SANITARY SEWER GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE CLASS "A", (3000 PSI).
2. ALL WATER MAINS SHALL BE PVC C900, DR 18, CLASS 235. FIRE PROTECTION SERVICES, AND HYDRANT LEADS SHALL BE PVC C900, DR 14, CLASS 305 AND INSTALLED IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS OF THE FIRE PROTECTION PLANS TO BE PREPARED BY A LICENSED FIRE PROTECTION ENGINEER.
3. WATER AND SANITARY SEWER SERVICES SHALL MEET PLUMBING CODE REQUIREMENTS.
4. ALL WATER MAINS UNLESS OTHERWISE NOTED SHALL HAVE A MINIMUM COVER OF 48" BELOW FINISHED GRADE.
5. SANITARY SEWER PIPE SHALL BE PVC SDR-35.
6. WHEN WATER MAINS AND SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES SHALL APPLY:
   (A) WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.
   (B) WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF SIX INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
   (C) WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI-RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKETED JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. IN ADDITION, THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.
   (D) WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE, THE L..W CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
   (E) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO BE INSTALLED PARALLEL TO AN EXISTING SEWER THAT SHOWS NO EVIDENCE OF LEAKAGE AND THE WATERLINE IS INSTALLED ABOVE THE SEWER A MINIMUM OF TWO FEET VERTICALLY AND FOUR FEET HORIZONTALLY. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBPARAGRAPHS (A) OR (D) OF THIS PARAGRAPH.
   (F) THE SEWER NEED NOT BE DISTURBED WHERE A NEW WATERLINE IS TO CROSS OVER (BY TWO FEET OR MORE) EXISTING SEWER SHOWING NO EVIDENCE OF LEAKAGE. SHOULD EXCAVATION FOR THE WATERLINE PRODUCE EVIDENCE THAT THE SEWER IS LEAKING, THEN THE SEWER MUST BE REPAIRED OR REPLACED AS DESCRIBED IN SUBSECTIONS (C) OR (D).
7. CONTRACTOR TO VERIFY ALL EXISTING SEWER FLOW LINES BEFORE BEGINNING CONSTRUCTION.
8. CONTRACTOR SHALL TIE A 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB IN ACCORDANCE WITH THE STANDARD TOWN SPECIFICATIONS.
9. ALL SANITARY SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD TOWN SPECIFICATIONS.
10. THE UTILITY CONTRACTOR SHALL INSTALL THE WATER SERVICES TO A POINT TWO (2') FEET BACK OF THE CURB LINE AT A DEPTH OF 8 INCHES. THE METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE CURB, WITH A BLUE LETTER "W" BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS".
11. ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS.
12. TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD TOWN SPECIFICATIONS.
13. EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD TOWN SPECIFICATIONS.
14. VALVE BOXES SHALL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER THE FINAL CLEAN-UP AND ALIGNMENT HAS BEEN COMPLETED, THE CONTRACTOR (UTILITY) SHALL POUR A CONCRETE BLOCK 24"X24"X6" AROUND ALL VALVE BOX TOPS WHICH SHALL BE LEVEL WITH THE FINISHED GRADES.
15. IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTORS EXPENSE.
16. ALL SANITARY SEWER MANHOLE COVERS SHALL BE PURCHASED FROM THE TOWN OF ADDISON.

BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
BM# 1+	" □ " CUT SET ON THE NORTHWEST CORNER OF A Y-INLET ON THE NORT'I SIDE OF SPRING VALLEY ROAD, 9'± WEST OF THE SOUTHEAST CORNER OF THE SITE. ELEV=585.61
BM# 2+	" □ " CUT SET ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A LIGHT STANDARD, 236'± SOUTH OF THE NORTH PROPERTY LINE AND 40'± WEST OF THE EAST PROPERTY LINE. ELEV=582.06
BM# 3+	" □ " CUT SET ON THE NORTH CURB OF SIDNEY DRIVE, NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF SIDNEY DRIVE AND WOODWAY DRIVE. ELEV=582.06
BM# 4+	" □ " CUT SET ON AN INLET BOX ON THE SOUTH SIDE OF SPRING VALLEY ROAD, 220'± EAST OF WOODWAY DRIVE. ELEV=583.14

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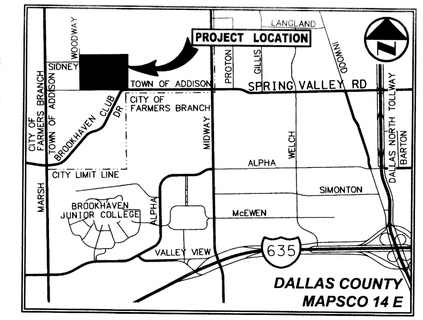
GRAPHIC SCALE IN FEET



VICINITY MAP

(NOT TO SCALE)

LEGEND

- AC A/C UNIT
- B BOLLARD
- CO CLEANOUT
- FDC FIRE DEPT. CONN.
- FH FIRE HYDRANT
- GRI GRATE INLET
- GM GAS METER
- GV GAS VALVE
- GUY ANCHOR
- ICV IRRIGATION CONTROL VALVE
- JB JUNCTION BOX
- LS LIGHT STANDARD
- MH MANHOLE (TYPE UNKNOWN)
- PH PAY PHONE
- PLM UG PIPELINE MARKER
- PM PARKING METER
- PP POWER POLE
- PP W/ GUY ANCHOR
- SIGN TRAFFIC SIGN
- SS SAN. SEWER MANHOLE
- STORM DRAIN LINE
- 6"W WATER LINE
- 6"SS SANITARY SEWER LINE
- MW MONITORING WELL
- (C.M.) CONTROLLING MONUMENT
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- EASEMENT LINE
- SETBACK LINE
- FENCE
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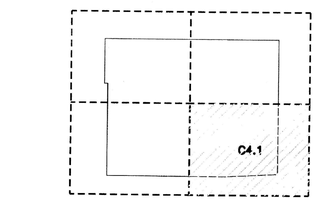
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND CABLE LINE
- UNDERGROUND GAS LINE
- IRS 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET

NOTE:
ALL MANHOLES SHALL HAVE A 30" RIM.



INDEX MAP

(NOT TO SCALE)

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/8/10

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LOGAN H. McWHORTER, P.E. 102254 ON 04/08/2010. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

NO.	DATE	REVISION
2	05/13/2010	ADDED IRRIGATION SERVICE AND DETAIL
1	05/06/2010	REVISED SANITARY SEWER LAYOUT AND OIL/WATER SEPERATOR

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100060-00

WATER & SANITARY SEWER PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C4.1

GEORGE H.W. BUSH ELEMENTARY SCHOOL

PK FILE: 1170-09.059 DWG FILE: 1170-09.59UT.DWG

DATE: 05/13/2010 - 5:19PM
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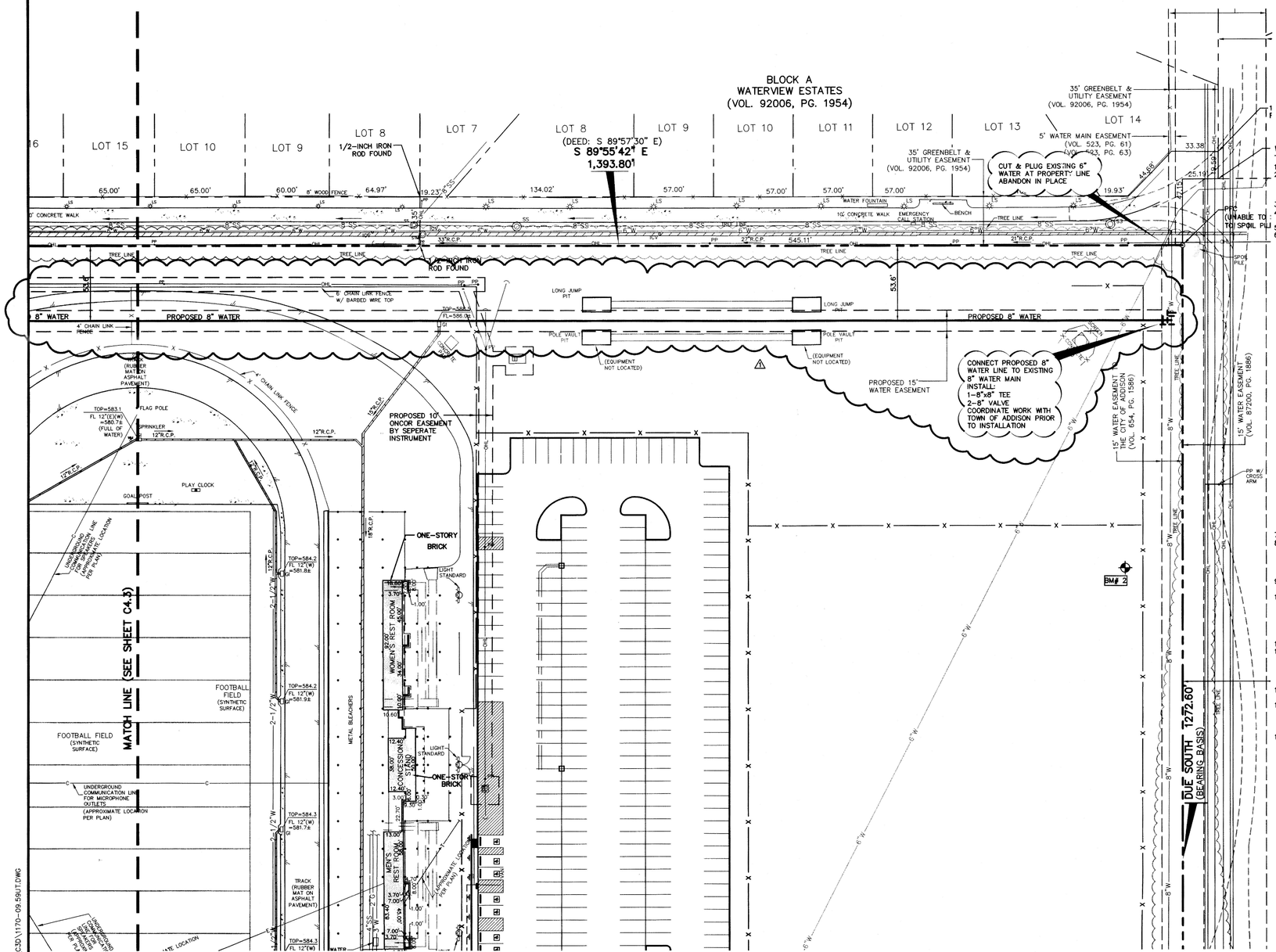

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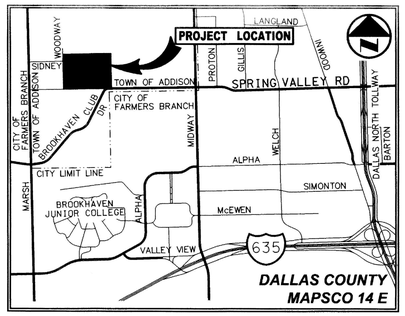

VICINITY MAP
(NOT TO SCALE)

LEGEND

- AC A/C UNIT
- B BOLLARD
- CO CLEANOUT
- FDC FIRE DEPT. CONN.
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- JB JUNCTION BOX
- LS LIGHT STANDARD
- MH MANHOLE (TYPE UNKNOWN)
- PH PAY PHONE
- PLM UG PIPELINE MARKER
- PM PARKING METER
- PP POWER POLE
- PP W/ GUY ANCHOR
- SIGN TRAFFIC SIGN
- SS SAN. SEWER MANHOLE
- IRS 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET
- MW MONITORING WELL
- (C.M.) CONTROLLING MONUMENT
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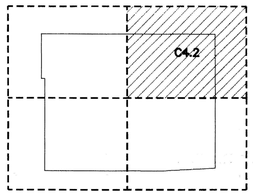
- C UNDERGROUND CABLE LINE
- G UNDERGROUND GAS LINE
- STORM DRAIN LINE
- 6"W WATER LINE
- 6"SS SANITARY SEWER LINE



INDEX MAP
(NOT TO SCALE)

NO.	DATE	REVISION
1	04/29/2010	REVISED WATER LAYOUT

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008O-00

WATER PLAN

GEORGE H.W. BUSH ELEM SCHOOL
DALLAS INDEPENDENT SCHOOL DISTRICT
10.000 ACRES
TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C4.2

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED PROFESSIONAL ENGINEER
4/30/10

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LOGAN H. McWHORTER, P.E. 102254 ON 04/08/2010. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

GEORGE H.W. BUSH ELEMENTARY SCHOOL

LMCWHORTER
04/29/2010 - 5:06PM
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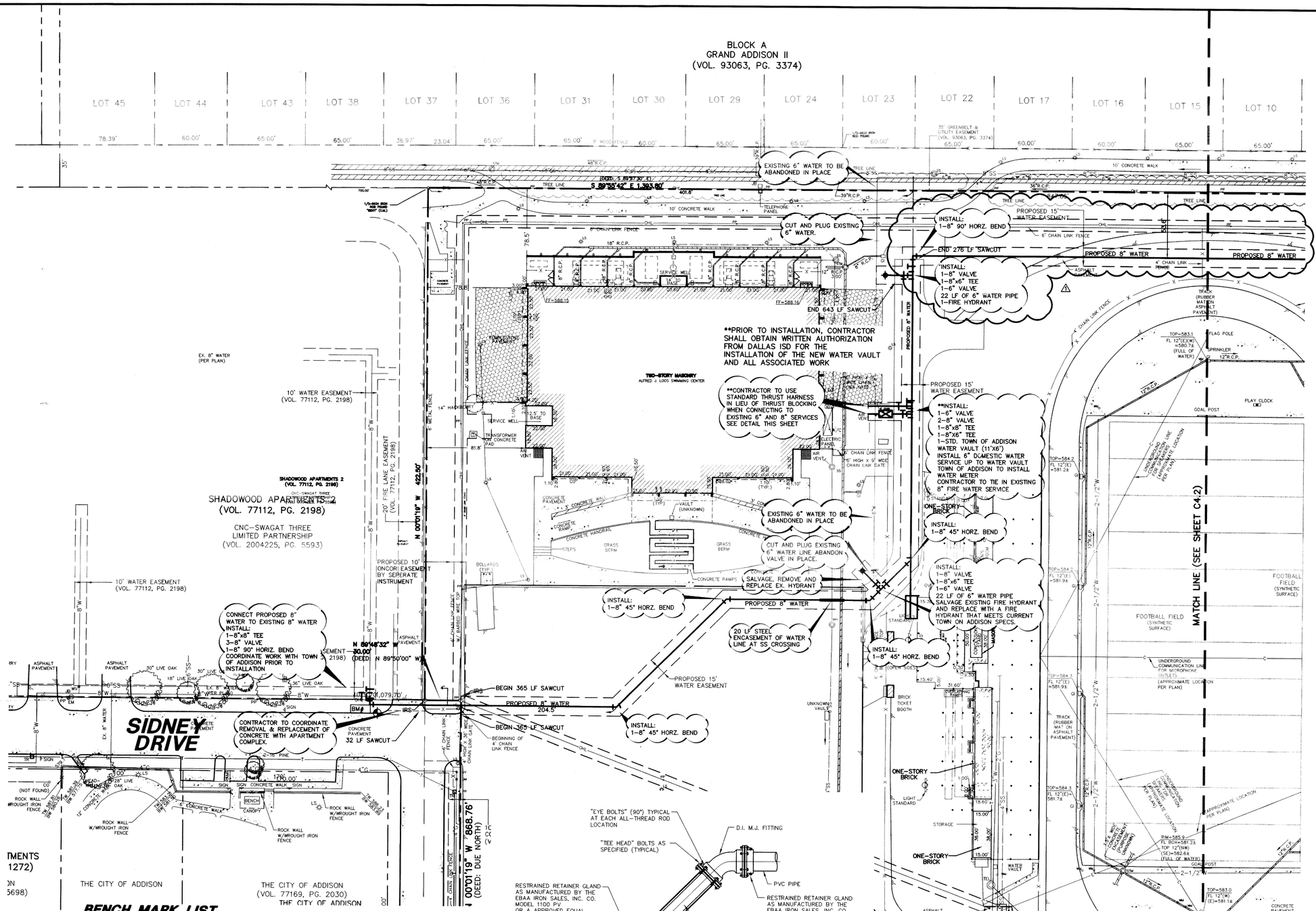

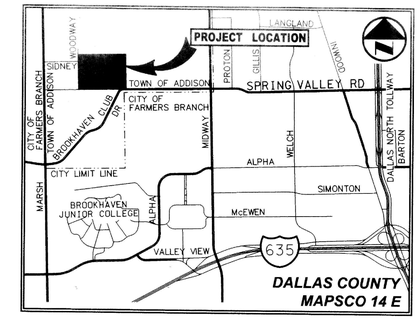

VICINITY MAP
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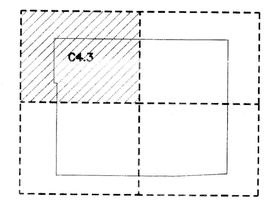

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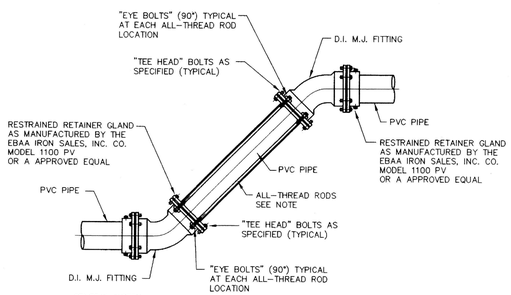
- PLM UG PIPELINE MARKER
- PM PARKING METER
- PP POWER POLE
- PP W/ GUY ANCHOR
- SIGN TRAFFIC SIGN
- SS SAN. SEWER MANHOLE
- STORM DRAIN LINE
- 6"W WATER LINE
- 6"SS SANITARY SEWER LINE
- 613 EXIST CONTOUR
- MW MONITORING WELL
- (C.M.) CONTROLLING MONUMENT
- PFC POINT FOR CORNER
- TRANSFORMER VAULT
- TEL TELEPHONE BOX
- TEL UG TELEPHONE MARKER
- TR TRASH CAN
- TRAFFIC SIGNAL
- TSC TRAFFIC SIGNAL CONTROL
- TSP TRAFFIC SIGNAL POLE
- TS TRAFFIC SENSOR
- STM STORM SEWER MANHOLE
- TEL TELEPHONE MANHOLE
- TR TELEPHONE RISER
- WM WATER METER
- WV WATER VAULT
- PROPERTY LINE
- EASEMENT LINE
- SETBACK LINE
- FENCE
- OHL OVERHEAD UTILITY LINE
- E UNDERGROUND ELECTRIC LINE
- T UNDERGROUND TELEPHONE LINE
- C UNDERGROUND CABLE LINE
- G UNDERGROUND GAS LINE
- 612.39 EXIST SPOT ELEV.
- TC 612.39 EXIST TOP OF CURB ELEV.
- G 611.92 EXIST GUTTER ELEV.
- TW 612.39 EXIST TOP OF WALL ELEV.
- BW 611.92 EXIST BOTTOM OF WALL ELEV.
- IRS 1/2-INCH IRON ROD W/"PACHECO KOCH" CAP SET

BENCH MARK LIST

CITY BM	CITY OF ADDISON BENCHMARK #26, BEING A " □ " CUT FOUND ON THE NOSE OF A MEDIAN AT BROOKHAVEN CLUB DRIVE, 25'± SOUTH OF SPRING VALLEY ROAD. ELEV=584.57
BM# 1	" ⊞ " CUT SET ON THE NORTHWEST CORNER OF A Y-INLET ON THE NORTH SIDE OF SPRING VALLEY ROAD, 9'± WEST OF THE SOUTHEAST CORNER OF THE SITE. ELEV=585.61
BM# 2	" ⊞ " CUT SET ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A LIGHT STANDARD, 236'± SOUTH OF THE NORTH PROPERTY LINE AND 40'± WEST OF THE EAST PROPERTY LINE. ELEV=585.61
BM# 3	" ⊞ " CUT SET ON THE NORTH CURB OF SIDNEY DRIVE, NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF SIDNEY DRIVE AND WOODWAY DRIVE. ELEV=582.06
BM# 4	" ⊞ " CUT SET ON AN INLET BOX ON THE SOUTH SIDE OF SPRING VALLEY ROAD, 220'± EAST OF WOODWAY DRIVE. ELEV=583.14



GENERAL NOTES:
1. SEE THE MANUFACTURER FOR THE REQUIRED METALLURGICAL SPECIFICATIONS FOR ALL BOLTS, NUTS, WASHERS AND ALL-THREAD RODS.
2. COATINGS AND COVERING FOR THE FITTINGS, ETC. SHALL MEET CITY REQUIREMENTS.

STANDARD THRUST HARNESS DETAIL HORIZONTAL AND/ OR VERTICAL OFFSETS
1 NOT TO SCALE

STATE OF TEXAS
LOGAN H. McWHORTER
102254
LICENSED
PROFESSIONAL ENGINEER
4/29/10

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NO.	DATE	REVISION
1	04/29/2010	REVISED WATER LAYOUT

Pacheco Koch Consulting Engineers
8350 N. CENTRAL EXPWY. SUITE 1000
DALLAS, TX 75206 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-100080-00

WATER PLAN

GEORGE H.W. BUSH ELEM SCHOOL

DALLAS INDEPENDENT SCHOOL DISTRICT

10.000 ACRES

TOWN OF ADDISON, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LHM	KLH	MAR 2010	1"=40'			C4.3

GEORGE H.W. BUSH ELEMENTARY SCHOOL

LMCWHORTER
04/29/2010 – 5:04PM
M:\DWG-11\1170-09.059\DWG\C3D\1170-09.59UT.DWG

PK FILE: 1170-09.059 DWG FILE: 1170-09.59UT.DWG