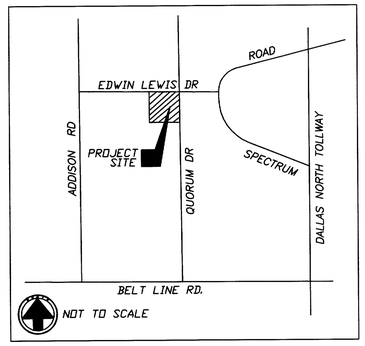
CONSTRUCTION PLANS
SPRINGHILL SUITES
QUORUM DRIVE AT EDWIN LEWIS DRIVE
TOWN OF ADDISON, TEXAS
FOR
PORTION OF
QUORUM CENTRE ADDITION
4.5 ACRES ZONED PD

SPRINGHILL SUITES
Marriott ®



TOWN OF ADDISON, TEXAS
VICINITY MAP

SHEET INDEX

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
FAX (214) 357-2985
JOB NO. 083100900

RECORD DRAWING
THIS DRAWING REFLECTS FIELD REVISIONS AS PROVIDED BY THE CONTRACTOR.

STATE OF TEXAS
JAY E. MARSH
70773
REGISTERED PROFESSIONAL ENGINEER

15OCT02

OWNER:

WESTERN INTERNATIONAL
12850 SPURLING DRIVE SUITE 114
DALLAS, TEXAS 75230
PH: (972) 934-8699
CONTACT: MIKE MAHONEY

CONTACT: JAY E. MARSH, P.E.

MAY 3, 2001
JOB NO. 083100900

FF-6

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TOWN OF ADDISON GENERAL CONSTRUCTION NOTES

A. PRIOR TO COMMENCING CONSTRUCTION, THREE SETS OF APPROVED CONSTRUCTION PLANS (CIVIL SET) SHALL BE PROVIDED TO THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT. THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE, SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE AMONG THE TOWN OF ADDISON, THE CONSULTING ENGINEER(S), CONTRACTORS, UTILITY COMPANIES, AND ANY OTHER AFFECTED PARTIES, AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION. CONTACT THE ASSISTANT DIRECTOR OF PUBLIC WORKS OR THE PUBLIC WORKS INSPECTOR AT (972)450-2871.

B. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FROM THE TOWN OF ADDISON PRIOR TO WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.

C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY UTILITY COMPANIES FOR LOCATION OF EXISTING FACILITIES IN OR NEAR THE WORK AREAS. THESE INCLUDE, BUT MAY NOT BE LIMITED TO THE FOLLOWING:

1. THE TOWN OF ADDISON
2. TXU (TU/LSG)
3. SOUTHWESTERN BELL
4. TCI CABLE
5. AT&T
6. MCI WORLDCOM
7. BROOKS CABLE
8. EXPLORER PIPELINE

D. THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE TOWN OF ADDISON, FOR APPROVAL OF ALL MATERIALS TO BE ADDED TO THE PUBLIC INFRASTRUCTURE, PRIOR TO INCORPORATING MATERIALS INTO THE JOB.

E. THE UTILITY CONTRACTOR SHALL SUBMIT TO THE TOWN OF ADDISON, AN APPROVED TRENCH SAFETY PLAN, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, FOR THE INSTALLATION OF UTILITIES GREATER THAN FIVE (5) FEET IN DEPTH.

F. THE CONTRACTOR/DEVELOPER SHALL VERIFY COMPLIANCE WITH NPDES AND SUBMIT AND SWPPP AS PART OF THE CONSTRUCTION PLANS.

G. A TRAFFIC CONTROL PLAN THAT COMPLIES WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS SHALL BE SUBMITTED AS PART OF THE CONSTRUCTION PLANS.

H. TEMPORARY OR PERMANENT BARRICADES SHALL REMAIN AT ALL POINTS OF INGRESS OR EGRESS TO PREVENT PUBLIC USE UNTIL SUCH STREET RECEIVES FINAL ACCEPTANCE.

I. DURING CONSTRUCTION, THE OWNER SHALL PROVIDE A QUALIFIED GEOTECHNICAL LAB TO PERFORM MATERIAL TESTING DURING THE CONSTRUCTION, AT THE REQUEST OF THE TOWN OF ADDISON.

PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON, THE FOLLOWING ITEMS SHALL BE COMPLETED:

1. THE CONTRACTOR, AT THEIR EXPENSE, SHALL REPAIR ANY EXISTING PAVEMENT, CURB, IRRIGATION SYSTEM, LANDSCAPING, AND/OR SIDEWALKS DAMAGED OR REMOVED DUE TO CONSTRUCTION ACTIVITY.

2. LOT PINS SHALL BE INSTALLED AFTER CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE. CONCRETE MONUMENTS SHALL BE PLACED AS SHOWN ON THE FINAL PLAT AND IRON PINS SHALL BE PLACED AT BLOCK CORNERS, CURVE POINTS, AND ANGLE POINTS IN PUBLIC RIGHT-OF-WAY. CONCRETE MONUMENTS SHALL BE SIX (6) INCHES IN DIAMETER AND TWENTY-FOUR (24) INCHES LONG. AN IRON ROD ONE-HALF INCH IN DIAMETER SHALL BE EMBEDDED AT LEAST THREE (3) INCHES INTO THE MONUMENT AT THE EXACT INTERSECTION POINT OF THE MONUMENT. THE MONUMENT SHALL BE SET AT SUCH AN ELEVATION THAT AFTER CONSTRUCTION; THE TOP OF THE MONUMENT WILL BE NOT LESS THAN TWELVE (12) INCHES BELOW FINISHED GRADE.

3. THE CONTRACTOR SHALL STAMP A 2-INCH "W" AND A 2-INCH "S" IN THE CURB AT THE LOCATION OF THE WATER AND SEWER SERVICE LINES, RESPECTIVELY. A 2-INCH "C" SHALL MARK CONDUITS CROSSING PAVEMENT, AND A 2-INCH "V" SHALL MARK WATER VALVES, WITH THE "POINT" OF THE "V" TOWARD THE VALVE.

4. ALL EXISTING AND PROPOSED IMPROVEMENTS (VALVES, MANHOLES, FIRE HYDRANTS, WATER METERS, ETC.) SHALL BE ADJUSTED TO FINAL FINISHED GRADE BY THE CONTRACTOR.

5. ANY ADJACENT PROPERTIES AFFECTED BY THE CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION, OR BETTER.

6. A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS SHALL CERTIFY THAT THE PROJECT WAS CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE TOWN OF ADDISON.

7. THE OWNER SHALL PROVIDE ONE REPRODUCIBLE SET, TWO BLUE LINE SETS, AND ONE ELECTRONIC MEDIA (INTERGRAPH OR AUTOCAD) COPY OF DIMENSIONED "AS-BUILT" PLANS (DATED, SEALED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS).

8. A LIST OF MATERIALS AND APPURTENANCES INCLUDED IN THE PUBLIC INFRASTRUCTURE SHALL BE SUBMITTED. SQUARE FOOTAGE OF APPROACHES AND SIDEWALKS SHALL BE INCLUDED IN THIS LIST.

9. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLETION OF ALL REQUIRED TESTS (PRESSURE, BACTERIOLOGICAL, BACKFLOW, VACUUM, MANDREL, VHS VIDEO OF SANITARY SEWER, ETC.)

10. A TWO-YEAR MAINTENANCE BOND SHALL BE SUBMITTED FOR THE PUBLIC INFRASTRUCTURE:
    A) 100% FOR VALUATIONS LESS THAN OR EQUAL TO $5,000.00
    B) $5,000.00 FOR VALUATIONS > $5,000.00 BUT < $50,000.00
    C) 10% FOR VALUATIONS > $50,000.00
    THE BOND IS TYPICALLY SUBMITTED BY THE GENERAL CONTRACTOR, BUT MAY ALSO BE SUBMITTED BY THE PROPERTY OWNER. THE BOND SHALL BE FOR A PERIOD OF ONE YEAR BEGINNING WITH THE DATE OF FINAL ACCEPTANCE BY THE TOWN.

11. THE CONTRACTOR SHALL CALL (972) 450-2847 TO REQUEST A WALK-THROUGH INSPECTION OF THE PUBLIC INFRASTRUCTURE.

12. WATER AND SANITARY ACCOUNTS SHALL BE SET UP WITH UTILITY BILLING (972-450-7081) AND ALL NECESSARY DEPOSITS PAID BY THE PARTY RESPONSIBLE FOR THE WATER SERVICES.

13. ISSUES IDENTIFIED DURING THE FINAL WALK-THROUGH INSPECTION THAT REQUIRE REVISION, REPAIR, OR ADDITIONAL WORK MAY BE ADDRESSED IN A LETTER TO THE TOWN OF ADDISON. THE LETTER SHOULD BE SENT TO THE ATTENTION OF THE ASSISTANT DIRECTOR OF PUBLIC WORKS, PO BOX 9010, ADDISON, TX 75001, ON OFFICIAL LETTERHEAD (OWNER/GENERAL CONTRACTOR), AND WILL INCLUDE A LIST OF THE ITEMS AND THE PROJECTED COMPLETION DATE. UPON RECEIPT OF SAID LETTER, THE PUBLIC WORKS INSPECTOR MAY SIGN OFF ON A "TEMPORARY" CERTIFICATE OF OCCUPANCY PROVIDED THERE IS NO ENDANGERMENT TO HEALTH OR SAFETY.

14. UPON COMPLETION OF ALL REQUIRED WORK IN A SATISFACTORY MANNER, AND RECEIPT OF ALL THE REQUIREMENTS LISTED ABOVE, THE PUBLIC WORKS INSPECTOR WILL SIGN OFF ON THE FULL CERTIFICATE OF OCCUPANCY. OTHER DEPARTMENTS OR AGENCIES MAY HAVE SEPARATE REQUIREMENTS NOT COVERED BY THE PUBLIC WORKS DEPARTMENT.

LEGEND

- W — WATER LINE
- SD — STORM DRAIN LINE
- TREE 4" TO 6"
- E — ELECTRICAL TRANSFORMER
- TRAFFIC SIGNAL
- S — SIGNAL BOX
- T — TELEPHONE SIGN
- SSMH — SANITARY SEWER MANHOLE
- WV — WATER VALVE
- 5/8" I.R.F. — IRON ROD FOUND
- SHRUB
- GM — GAS METER
- FH — FIRE HYDRANT
- LP — LIGHT STANDARD
- WM — WATER METER
- SS — SANITARY SEWER LINE
- UGT — UNDERGROUND TELEPHONE LINE
- TC — TOP CURB
- SIGN

RECORD DRAWING
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STATE OF TEXAS
JAY E. MARSH
70773
REGISTERED PROFESSIONAL ENGINEER

15 OCT 02

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PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
FAX (214) 357-2985
JOB NO. 083100900

NOTES AND LEGEND

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	N.T.S.	MARADDNO1	C1

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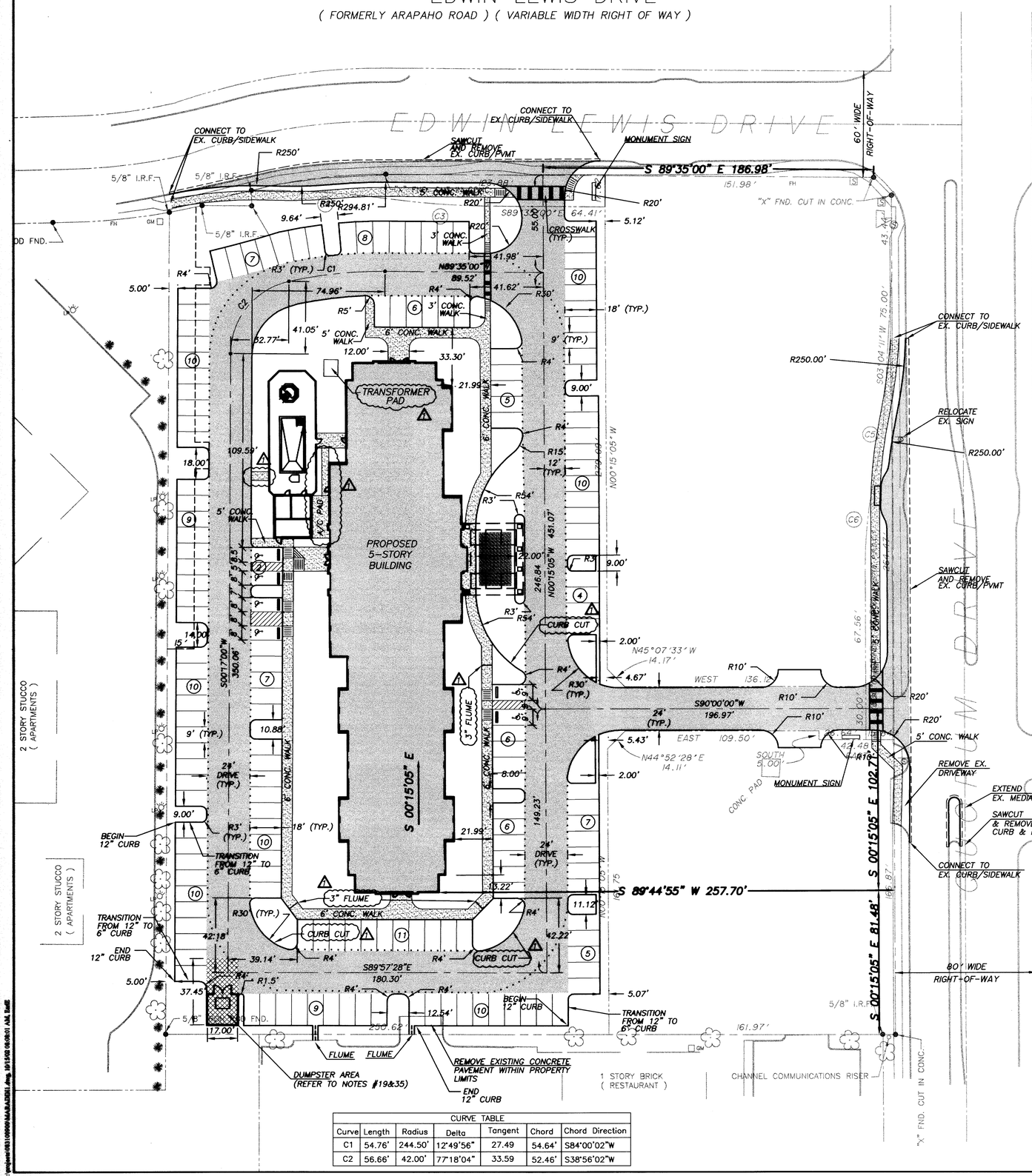

CURVE TABLE						
Curve	Length	Radius	Delta	Tangent	Chord	Chord Direction
C1	54.76'	244.50'	12°49'56"	27.49	54.64'	S84°00'02"W
C2	56.66'	42.00'	77°18'04"	33.59	52.46'	S38°56'02"W

DIMENSION CONTROL & PAVING GENERAL NOTES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABIRCATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND DOCUMENTS APPROVED BY ALL OF THE PERMITTING AGENCIES.
2. ALL CONSTRUCTION SHALL CONFORM TO TOWN OF ADDISON AND N.C.T.C.O.G. STANDARDS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CURRENT COPY OF THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
3. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
4. REFERENCE ARCHITECTURAL PLANS FOR POOL AREA LAYOUT INFORMATION.
5. ALL CURB RADII ARE 30 FEET FOR LARGER CURVES AND 3 FEET FOR SMALLER CURVES UNLESS OTHERWISE NOTED.
6. ALL PARKING SPACES ARE 18 FEET BY 9 FEET UNLESS OTHERWISE NOTED.
7. ALL CURB SHALL BE INTEGRAL WITH CONCRETE PAVEMENT. ALL JOINTS SHALL CONTINUE THROUGH CURB.
8. CONTRACTOR SHALL PROVIDE PAVEMENT JOINTING PLANS AS A SHOP DRAWING FOR ENGINEER REVIEW.
9. REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH EXPANSION JOINTS
10. CONTRACTOR SHALL SAW-CUT EXISTING PAVEMENT AND CURBS TO PROVIDE A SMOOTH CONNECTION AND INSURE POSITIVE DRAINAGE. ALL SAWCUTS OF EXISTING PAVEMENT SHALL BE FULL DEPTH OF PAVEMENT.
11. ACCESSIBLE RAMP TO BE LOCATED WHERE DRIVES INTERSECT PUBLIC STREETS.
12. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES WITH OTHER CONTRACTORS ON SITE.
13. ALL EXISTING STRUCTURES, CONCRETE PAVING AND WALKS WITHIN THE LIMITS OF THE PROPERTY SHALL BE REMOVED. FAILURES IN EXISTING SIDEWALK SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE TOWN OF ADDISON.
14. ALL PARKING STRIPES ARE FOUR-INCHES WIDE AND TRAFFIC WHITE EXCEPT WHERE NOTED.
15. FIRE LANE STRIPES SHALL BE FOUR-INCHES WIDE, RED AND LABELED WITH WHITE LETTERS. MINIMUM RADIUS ON FIRE LANE STRIPE SHALL BE 30 FEET. WHERE ADJACENT TO A CURB, STRIPING SHALL BE PLACED ON THE CURB. FIRE LANE STRIPING SHALL BE PLACED CORRESPONDING TO THE FIRE LANE LOCATION REFLECTED ON THE PLANS.
16. DRIVEWAY CONSTRUCTION MUST BE COMPLETED WITHIN 72 HOURS AFTER CURB CUT HAS BEGUN.
17. CONTRACTOR TO PROVIDE TRENCH SAFETY PLANS SIGNED AND SEALED BY A REGISTERED ENGINEER PRIOR TO START OF CONSTRUCTION.
18. ALL CONSTRUCTION SHALL ADHERE TO RECOMMENDATIONS IN THE GEOTECHNICAL REPORT ISSUED FOR THIS SITE.
19. PARKING AREA PAVEMENT SHALL BE 5-INCH THICK CONCRETE PAVEMENT. FIRE LANE PAVEMENT SHALL BE 7-INCH THICK CONCRETE PAVEMENT. DUMPSTER AREA PAVEMENT SHALL BE 7-INCH THICK CONCRETE PAVEMENT. ALL PAVEMENT SECTIONS SHALL INCLUDE 6-INCH SCARIFIED AND RECOMPACTED SUBGRADE AT 95 PERCENT OF STANDARD PROCTOR.
20. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3,000 psi AT 28 DAYS. FIRE LANE SHALL HAVE A MINIMUM STRENGTH OF 3,500 P.S.I. AT 28 DAYS. DRIVEWAYS WITHIN THE PUBLIC R.O.W. SHALL HAVE A MINIMUM STRENGTH OF 4,000 PSI AT 28 DAYS.
21. PAVEMENT REINFORCEMENT SHALL BE NO. 3 BARS AT 18" O.C.E.W.
22. CONTRACTION JOINTS SHALL BE SPACED AT 12 FEET O.C.E.W. WITH NO DIMENSION LESS THAN 75 PERCENT OF THE PERPENDICULAR DIMENSION.
23. EXPANSION JOINTS SHALL PARALLEL ALL FIRE LANES. CONTRACTOR SHALL TAKE SPECIAL CARE TO ASSURE PROPER DOWELL PLACEMENT AT EXPANSION JOINTS. IMPROPER PLACEMENT WILL NECESSITATE REMOVAL OF PAVEMENT. EXPANSION JOINTS SHALL BE PLACED AT ALL FIRE LANE INTERSECTIONS AND TURNS. EXPANSION JOINTS SHALL BE SPACED AT 300-FOOT INTERVALS LONGITUDINALLY.
24. REFERENCE ARCHITECTURAL PLANS FOR EXACT BUILDING AND RELATED SIDEWALK DIMENSIONS.
25. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, etc. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING.
26. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF VALVES, MANHOLES, FIRE HYDRANTS, GAS/TELEPHONE/ELECTRICAL LINES THAT ARE AFFECTED BY THE CONSTRUCTION.
27. SAW CUTTING SHALL BE DONE WITHIN 8 HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT AND CAN PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
28. RADIAL JOINTS SHALL BE NO SHORTER THAN 1.5 FEET.
29. CONTRACTOR SHALL USE A THICKENED EDGE EXPANSION JOINT AROUND THE PERIMETER OF ANY BLOCKOUT IN THE CONCRETE PAVING.
30. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED PER N.C.T.C.O.G. SPECIFICATIONS.
31. PROVIDE EXPANSION JOINTS WITHOUT DOWELS BETWEEN PAVEMENT AND BUILDING.
32. THICKENED EDGES ARE REQUIRED AT ALL CONNECTIONS TO EXISTING PAVEMENT, REFER TO KEYWAY AND THICKENED EDGE DETAILS.
33. CONTRACTOR SHALL COORDINATE EFFORT FOR RELOCATING LIGHT AND POWER POLES. THE COST ASSOCIATED WITH THE RELOCATION SHALL BE PAID BY CONTRACTOR.
34. BUILDING FOOTPRINTS SHOWN ARE AS PROVIDED BY ARCHITECT. ALL BUILDING CORNER DIMENSIONS RELY ON THE ACCURACY OF THE ARCHITECTS ELECTRONIC FILE. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCY BETWEEN THIS PLAN AND THE ARCHITECTS PLAN.
35. REFERENCE ARCHITECTURAL PLANS FOR DUMPSTER SCREENING.
36. SUBGRADES OF BUILDING AND PAVING AREAS SHALL BE MAINTAINED IN A MOIST CONDITION UNTIL THE PAVEMENT/CONCRETE IS PLACED.
37. ALL ACCESSIBLE PARKING SPACES SHALL HAVE APPROPRIATE SIGNAGE ASSOCIATED WITH EACH SPACE.

LEGEND
- HEAVY DUTY CONCRETE
- PROPOSED SIDEWALK
- BARRIER FREE RAMP
- FIRE LANE
- PYLON SIGN
- (5) PARKING COUNT

RECORD DRAWING
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STATE OF TEXAS
JAY E. MARSH
70773
REGISTERED PROFESSIONAL ENGINEER

15 OCT 02

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

BENCHMARK:

TOWN OF ADDISON, TEXAS, BENCHMARK NO. 3
60D NAIL IN POWER POLE AT SOUTHEAST CORNER OF JULIAN ST. AND BROADWAY ST.
ELEV. 632.50'

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
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DIMENSION CONTROL & PAVING

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	1" = 30'	MARADD11	C2

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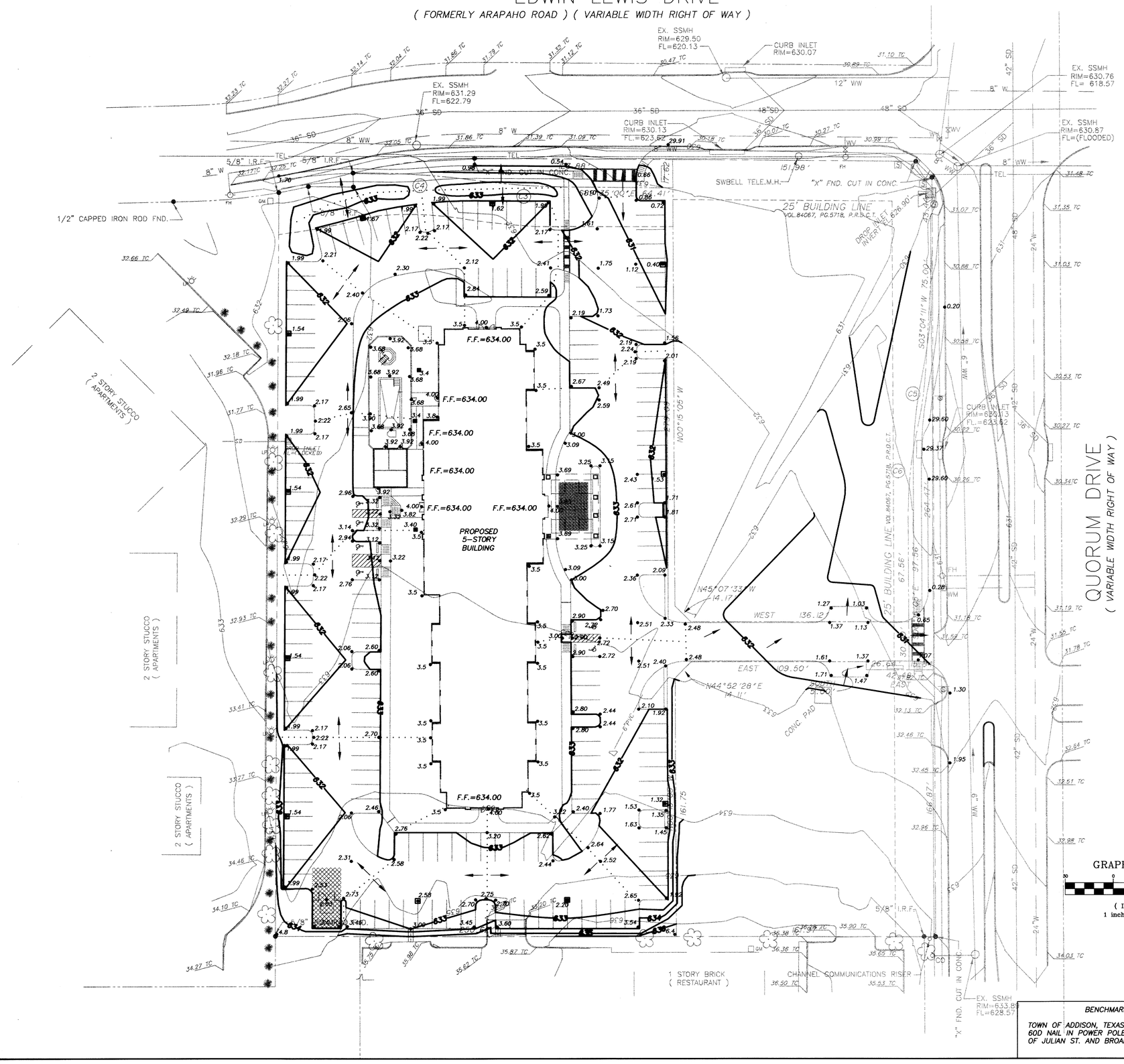

GRADING GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO TOWN OF ADDISON AND N.C.T.C.O.G. STANDARDS AND SPECIFICATIONS.
2. REFERENCE ARCHITECTURAL PLANS FOR EXACT BUILDING AND RELATED SIDEWALK DIMENSIONS.
3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL VALVES, MANHOLES, FIRE HYDRANTS, GAS/TELEPHONE/ELECTRIC LINES THAT ARE AFFECTED BY THE CONSTRUCTION.
4. MAXIMUM SLOPE WITHIN THE SITE SHALL BE THREE FEET HORIZONTAL TO ONE FOOT VERTICAL.
5. ALL CONSTRUCTION SHALL ADHERE TO RECOMMENDATIONS IN THE GEOTECHNICAL REPORT ISSUED FOR THIS SITE.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, etc. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING.
7. REFERENCE EROSION CONTROL PLAN FOR EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS. MAINTENANCE REQUIREMENTS ARE ALSO DEFINED.
8. AREAS TO RECEIVE FILL, OR WITHIN THE BUILDING AREA SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES AND RECOMPACTED TO BETWEEN 92 PERCENT AND 98 PERCENT OF STANDARD PROCTOR DENSITY (ASTM D-698). MOISTURE CONTENT SHALL RANGE FROM +1 TO +5 PERCENTAGE POINTS ABOVE OPTIMUM. FILL SHALL BE PLACED IN 8-INCH LOOSE LIFTS.
9. PAVEMENT SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED TO A MINIMUM OF 95 PERCENT STANDARD PROCTOR, AT OR ABOVE OPTIMUM MOISTURE CONTENT. SUBGRADE WITHIN THE R.O.W. SHALL BE RECOMPATED AT 0 TO +3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT.
10. ALL VEGETATION AND TOPSOIL CONTAINING ORGANIC MATERIAL SHALL BE CLEARED AND GRUBBED AT THE BEGINNING OF EARTHWORK CONSTRUCTION.

RECORD DRAWING
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JAY E. MARSH 70773 REGISTERED PROFESSIONAL ENGINEER

15OCT02

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

BENCHMARK:
TOWN OF ADDISON, TEXAS, BENCHMARK NO. 3
60D NAIL IN POWER POLE AT SOUTHEAST CORNER OF JULIAN ST. AND BROADWAY ST.
ELEV. 632.50'

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GRADING PLAN

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	1" = 30'	MARADGR1	C3

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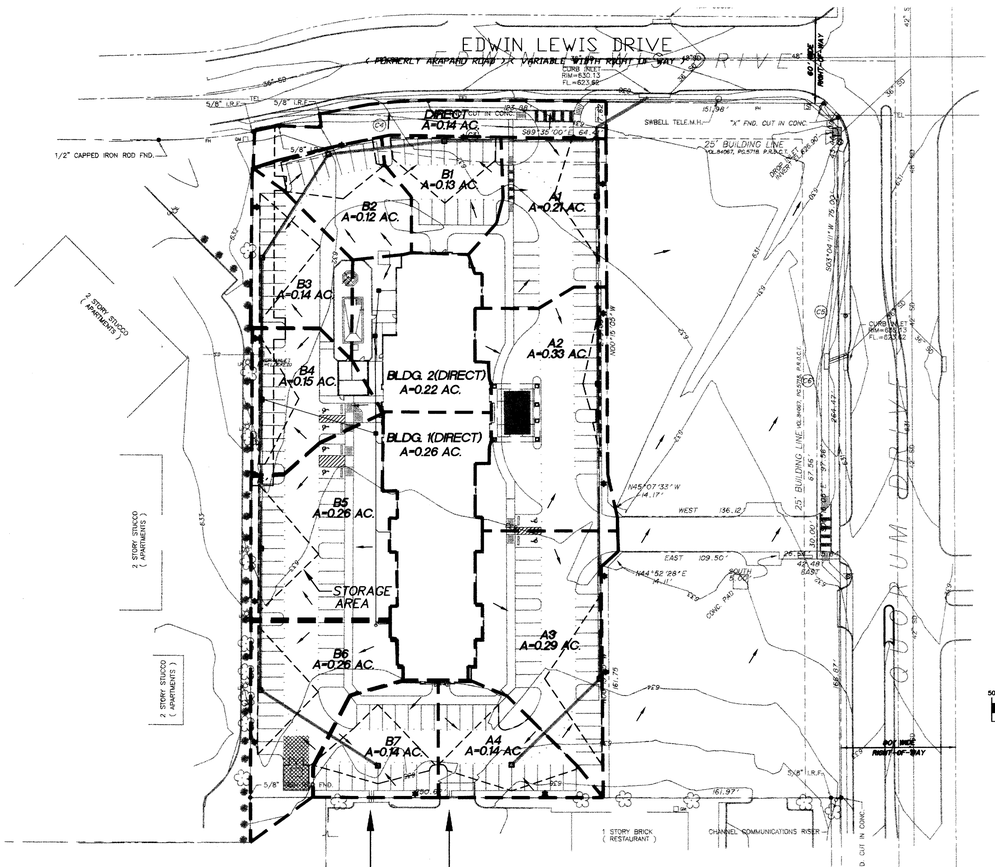

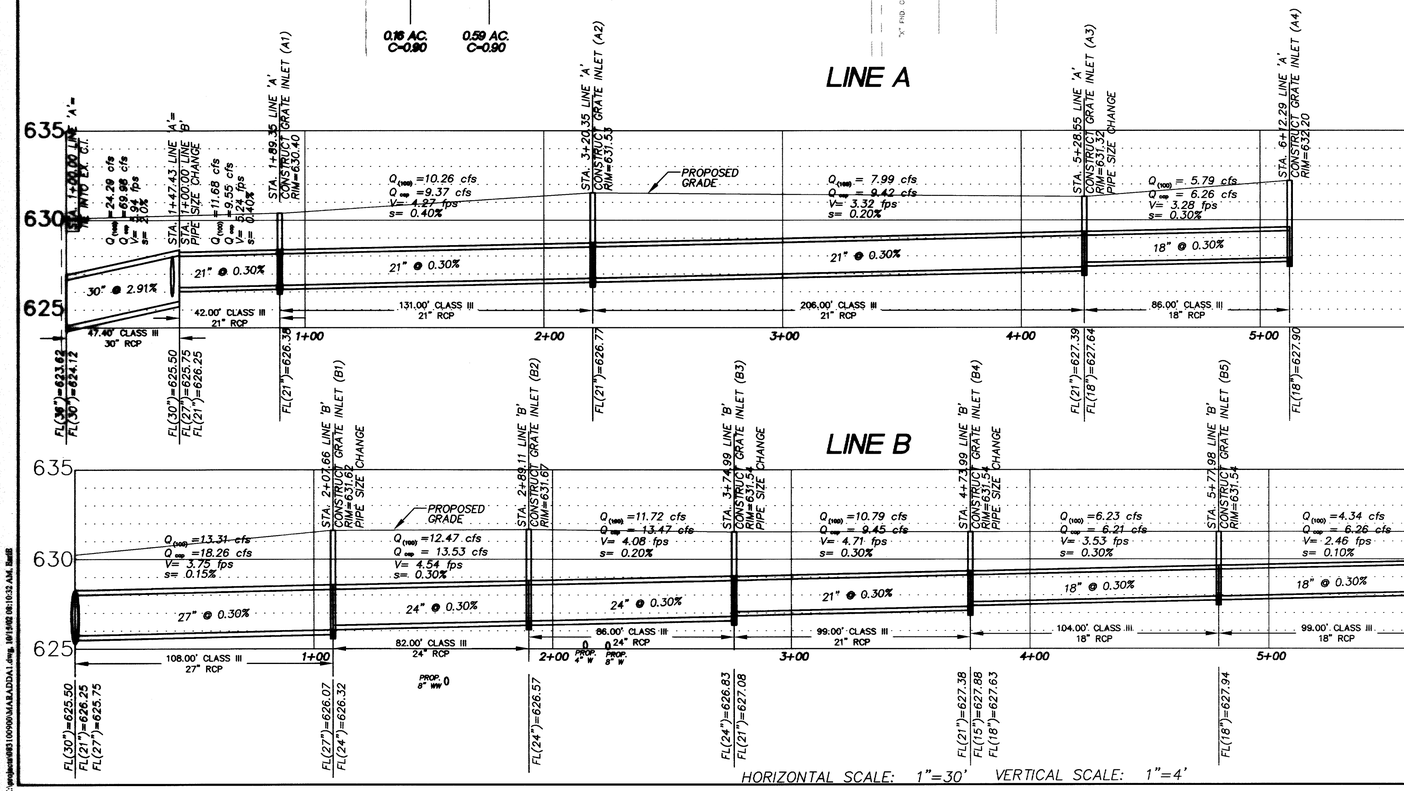

HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=4'

PROVIDED STORAGE VOLUME ON-SITE

AREA DESIGNATION	PROVIDED VOLUME (C.F.)
A1	427
A2	146
A3	592
A4	742
B1	550
B2	471
B3	473
B4	336
B5	473
B6	475
B7	600
SUM =	5,285

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

Detention Basin Design

Q=CIA

PEI#: 083100900
Project Name: Springhill Addison
By: JEM

Drainage Area (ac.):	2.91
Design Storm (yrs):	100

Proposed Conditions (25 YR.)	
C=	0.90
Tc(min.)=	10.0
I(in/hr)=	7.3
Q(cfs)=	19.09

Proposed Conditions (100 YR.)	
C=	0.90
Tc(min.)=	10.0
I(in/hr)=	8.7
Q(cfs)=	22.89

Storm Duration	I (in/hr)	Q (cfs)	Inflow (cu.ft.)	Outflow (cu.ft.)	Storage (cu.ft.)
5.0	10.5	27.5	8242.0	8591.6	-349.6
10.0	8.7	22.9	13734.0	11455.5	2278.5
15.0	7.5	19.7	17725.4	14319.4	3406.0
20.0	6.8	17.8	21371.0	17183.3	4187.8
30.0	5.8	15.1	27106.7	22911.0	4195.6
40.0	5.0	13.1	31428.0	28638.8	2789.2
50.0	4.5	11.7	34963.7	34366.5	597.1
60.0	3.9	10.2	36865.0	40094.3	-3229.2
120.0	2.6	6.9	49404.8	74460.8	-25056.0
180.0	1.9	5.0	54024.7	108827.3	-54802.6
240.0		0.0	0.0	143193.8	-143193.8

STORAGE AREA REQUIRED = 4,195.6 C.F.
STORAGE AREA PROVIDED = 5,285 C.F.

PATE ENGINEERS, INC. — Project: SPRINGHILL SUITES — NWE #: 83100900 — Manning's "n" = 0.012

RUNOFF COLLECTION POINT (Inlet or Manhole)				INCREMENTAL DRAINAGE AREA				Time at Upstream Station (min.)	Design Storm Freq. (years)	Intensity I (in./hr.)	Storm Water Runoff Q (cfs)	Slope of Hydraulic Gradient S (ft./ft.)	Storm Sewer Dia. (in.)	Velocity Between Points V (fps)	Coefficient of Headloss Manholes & Junctions (Kj)	Construct. Slope (ft./ft.)	Capacity (cfs)	Flow Time in Sewer (min.)	Hydraulic Gradient Elevations	
Upstream Station	Downstream Station	Distance Between Collection Points (ft.)	Area No.	Drainage Area (acres)	Runoff Coeff. C	Incremental Area CA	Accumulated CA												Upstream	Downstream
B7	B6	98	B7	0.30	0.9	0.27	0.27	10.0	100	8.74	2.38	0.001	15	2.03	1.25	0.003	3.81	0.81	629.86	629.76
B6	B5	99	B6	0.26	0.9	0.23	0.50	10.81	100	8.54	4.34	0.001	18	2.46	0.50	0.003	6.26	0.67	629.72	629.57
B5	B4	104	B5	0.26	0.9	0.23	0.74	11.48	100	8.38	6.23	0.003	18	3.53	0.50	0.003	6.21	0.49	629.48	629.16
B4	B3	99	B4	0.15	0.9	0.13	1.30	11.97	100	8.26	10.79	0.003	21	4.71	0.50	0.003	9.45	0.35	629.00	628.63
B3	B2	86	B3	0.14	0.9	0.13	1.42	12.32	100	8.17	11.72	0.002	24	4.08	0.50	0.003	13.47	0.35	628.50	628.34
B2	B1	82	B2	0.12	0.9	0.11	1.53	12.67	100	8.09	12.47	0.003	24	4.54	0.50	0.003	13.53	0.30	628.18	627.98
B1	JUNC	108	B1	0.13	0.9	0.12	1.65	12.97	100	8.02	13.31	0.0015	27	3.75	0.50	0.003	18.26	0.48	627.86	627.74
BLDG #2	YDI #3	100		0.22	0.9	0.20	0.20	10.0	100	8.74	1.74	0.005	10	3.20	1.25	0.005	1.68	0.52	631.49	630.94
BLDG #1	YDI #3	157		0.26	0.9	0.23	0.23	10.0	100	8.74	2.06	0.003	12	2.83	1.25	0.003	2.18	0.93	631.33	630.94
YDI #3	B4	86					0.43	10.93	100	8.51	3.71	0.021	15	3.82	0.50	0.025	11.01	0.37	630.78	629.16
A4	A3	86	A4	0.73	0.9	0.66	0.66	10.0	100	8.74	5.79	0.003	18	3.28	1.25	0.003	6.26	0.44	629.52	629.30
A3	A2	206	A3	0.29	0.9	0.26	0.92	10.44	100	8.63	7.99	0.003	21	3.32	0.50	0.003	9.42	1.03	629.21	628.77
A2	A1	131	A2	0.33	0.9	0.30	1.22	11.47	100	8.38	10.26	0.003	21	4.27	0.50	0.003	9.37	0.51	628.63	628.16
A1	JUNC	42	A1	0.21	0.9	0.19	1.40	11.98	100	8.26	11.68	0.004	21	5.24	0.50	0.003	9.55	0.13	627.95	627.74
JUNC	OUT	47.40					3.05	13.45	100	7.90	24.29	0.020	30	5.94	0.50	0.029	69.98	0.11	627.18	626.63

INLET CAPACITY CALCULATIONS

$Q=4.82Ay^{1/2}$ WHERE: Q=DISCHARGE IN cfs
A=AREA OF ORIFICE IN s.f.
y=HEAD ON GRATE IN ft.

INLET	Q (25 YR) cfs	y ft.	REQUIRED GRATE OPEN AREA (A) s.f.	GRATE INLET MODEL NO. (NEENAH FOUNDRY)	GRATE DIMENSIONS	PROVIDED GRATE OPEN AREA (A) s.f.	Q (25 YR) CAPACITY cfs
A1	1.39	0.5	0.41	R-4370-3	15-INCH DIA.	0.4	1.36
A2	2.18	0.5	0.64	R-4370-4	15-INCH DIA.	0.6	2.05
A3	1.92	0.5	0.56	R-4370-4	15-INCH DIA.	0.6	2.05
A4	4.83	0.5	1.42	R-4370-9	22-INCH DIA.	1.3	4.43
B1	0.86	0.5	0.25	R-4370-2	9.5-INCH DIA.	0.2	0.68
B2	0.79	0.5	0.23	R-4370-2	9.5-INCH DIA.	0.2	0.68
B3	1.19	0.5	0.35	R-4370-3	15-INCH DIA.	0.4	1.36
B4	1.19	0.5	0.35	R-4370-3	15-INCH DIA.	0.4	1.36
B5	1.72	0.5	0.50	R-4370-4	15-INCH DIA.	0.6	2.05
B6	1.72	0.5	0.50	R-4370-3	15-INCH DIA.	0.4	1.36
B7	1.98	0.5	0.58	R-4370-4	15-INCH DIA.	0.6	2.05
SUM =	19.77						19.43

RECORD DRAWING
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JAY E. MARSH 70773 REGISTERED PROFESSIONAL ENGINEER

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

BENCHMARK:
TOWN OF ADDISON, TEXAS, BENCHMARK NO. 3
60D NAIL IN POWER POLE AT SOUTHEAST CORNER OF JULIAN ST. AND BROADWAY ST.
ELEV. 632.50'

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
FAX (214) 357-2985
JOB NO. 083100900

DRAINAGE AREA MAP, CALCULATIONS & PROFILES

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	AS NOTED	MARADDA1	C4

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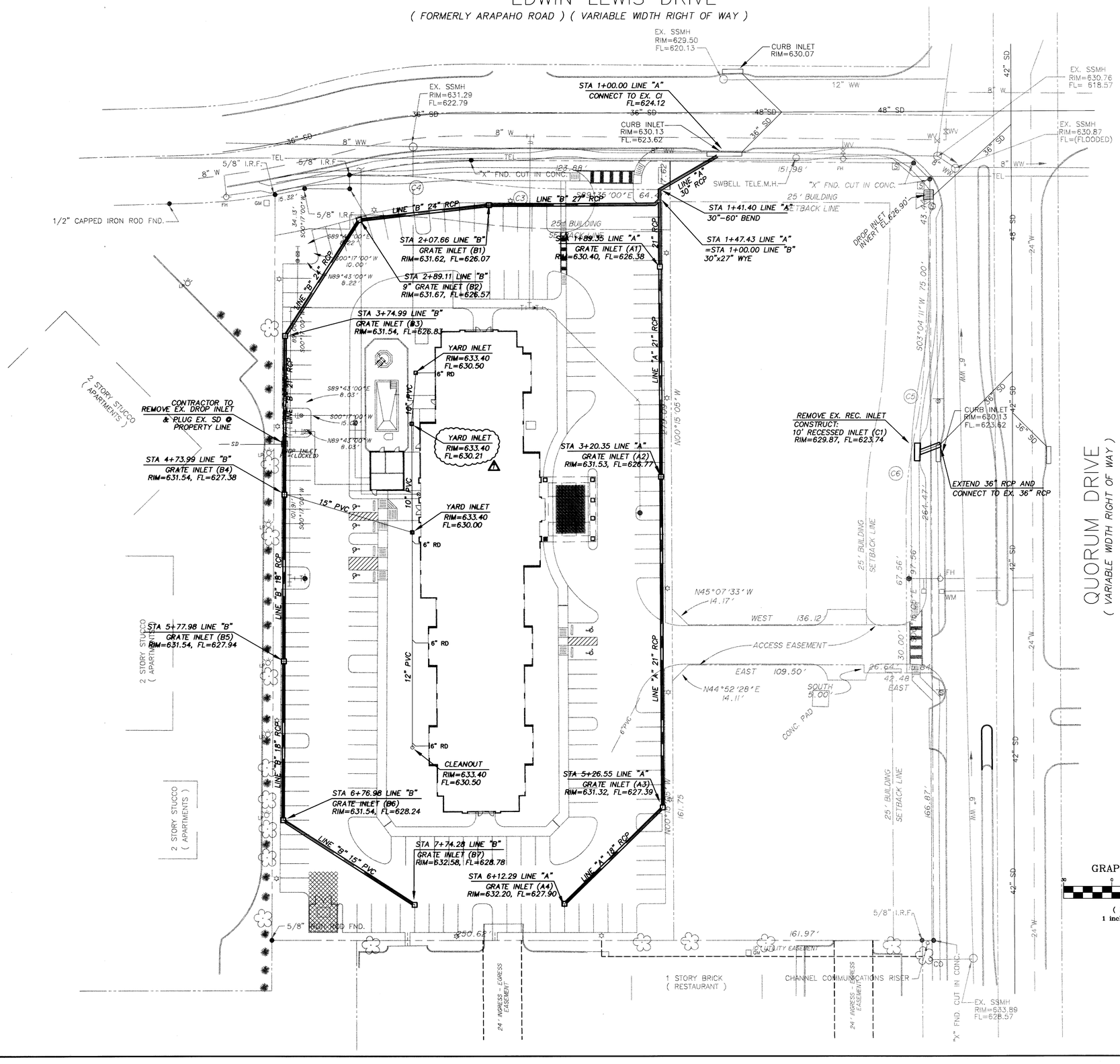
EDWIN LEWIS DRIVE

(FORMERLY ARAPAHO ROAD) (VARIABLE WIDTH RIGHT OF WAY)



DRAINAGE GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO TOWN OF ADDISON AND N.C.T.C.O.G. STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTERLINE OF PIPE AND OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO PROVIDE TRENCH SAFETY PLANS SIGNED AND SEALED BY A LICENSED ENGINEER PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE AS-BUILT PLANS TO THE ENGINEER SO THAT THE ENGINEERING PLANS MAY BE CORRECTED TO REFLECT AS-BUILT CONDITIONS.
5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND MAINTAIN ALL NECESSARY WARNING AN SAFETY DEVICES (FLASHING LIGHTS, BARRICADES, SIGNS, etc.) TO PROTECT PUBLIC SAFETY AND HEALTH UNTIL ALL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE TOWN OF ADDISON.
6. THE LOCATION OF EXISTING UNDERGROUND FACILITIES INDICATED ON THE PLANS IS TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES, OTHER THAN THOSE SHOWN ON THE PLAN, MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES FOUND.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, etc. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING.
8. CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATION PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCY.
9. ALL STORM SEWER PIPE 18 INCHES OR LARGER SHALL BE CLASS III RCP, OR APPROVED EQUAL.
10. ALL STORM SEWER PIPE LESS THAN 18 INCHES SHALL BE PVC SDR-35, OR APPROVED EQUAL.
11. ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
12. CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
13. ALL ROOF DRAIN STUB CONNECTIONS SHALL BE 6" PVC PIPE, UNLESS OTHERWISE NOTED.
14. ALL GRATE INLETS SHALL BE NEENAH FOUNDRY OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
15. CONTRACTOR SHALL VERIFY LOCATION AND SIZE OF ALL ROOF DRAIN LATERALS WITH PLUMBING PLANS. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES.
16. ALL YARD INLETS SHALL BE NDS 18" x18" BASIN OR APPROVED EQUAL.

BENCHMARK:

TOWN OF ADDISON, TEXAS, BENCHMARK NO. 3
60D NAIL IN POWER POLE AT SOUTHEAST CORNER OF JULIAN ST. AND BROADWAY ST.
ELEV. 632.50'

GRATE INLET DESIGNATION	NEENAH FOUNDRY MODEL NUMBER	GRATE DIMENSIONS (in.)
A1	R-4370-3	15" DIA.
A2	R-4370-4	15" DIA.
A3	R-4370-4	15" DIA.
A4	R-4370-9	22" DIA.
B1	R-4370-2	9.5" DIA.
B2	R-4370-2	9.5" DIA.
B3	R-4370-3	15" DIA.
B4	R-4370-3	15" DIA.
B5	R-4370-4	15" DIA.
B6	R-4370-3	15" DIA.
B7	R-4370-4	15" DIA.

RECORD DRAWING
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STATE OF TEXAS
JAY E. MARSH
70773
REGISTERED PROFESSIONAL ENGINEER

15 OCT 02

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
FAX (214) 357-2985
JOB NO. 083100900

DRAINAGE PLAN

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	1"=30'	MARADDR1	C5

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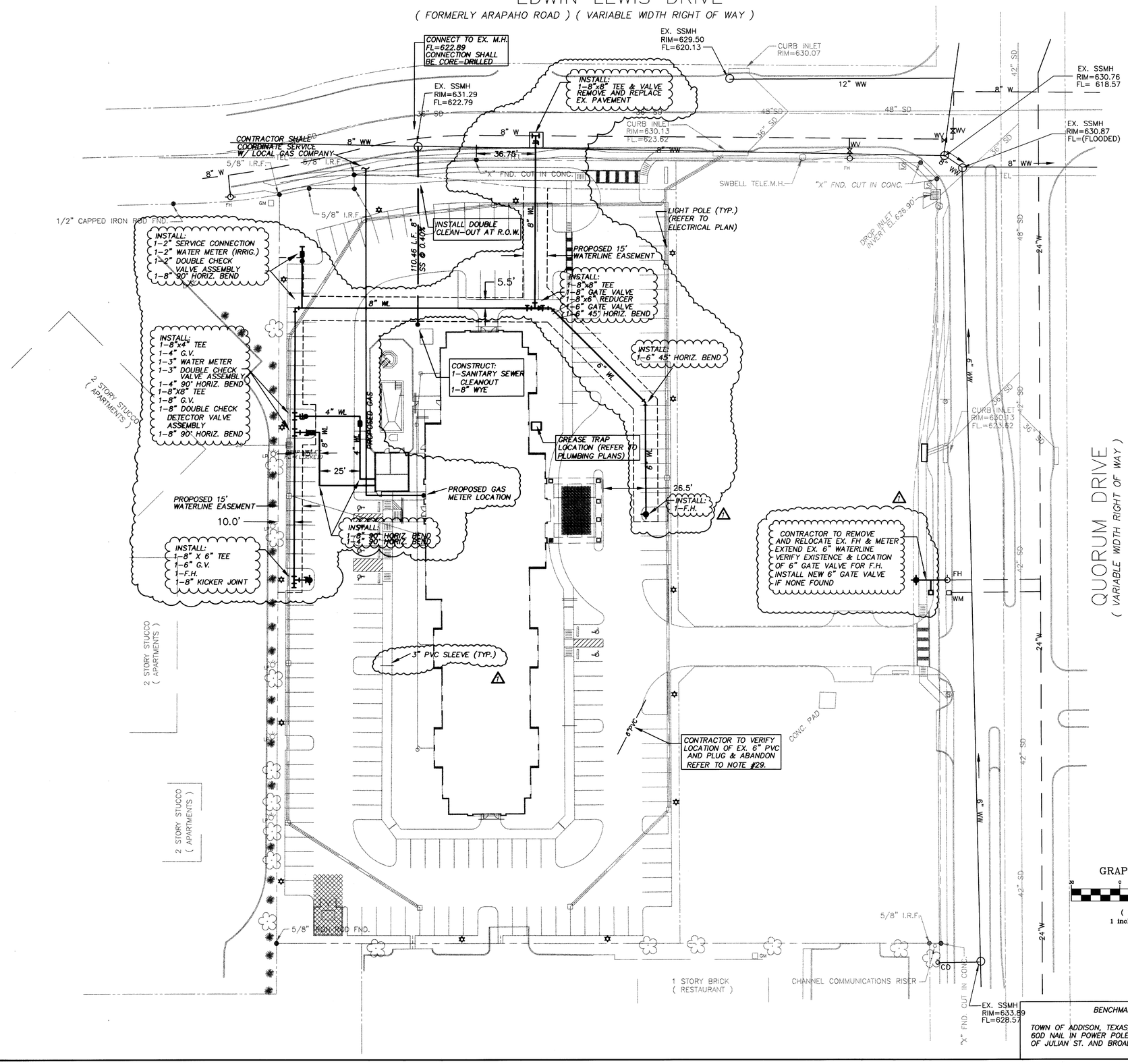

UTILITY GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTERLINE OF PIPE AND OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
3. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL WATER MAINS IN AREAS OF CONFLICT WITH OTHER PROPOSED UTILITIES.
4. CONTRACTOR TO PROVIDE TRENCH SAFETY PLANS SIGNED AND SEALED BY A LICENSED ENGINEER PRIOR TO START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE AS-BUILT PLANS TO THE ENGINEER SO THAT THE REPRODUCIBLES OF THE ENGINEERING PLANS MAY BE CORRECTED TO REFLECT AS-BUILT CONDITIONS.
6. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND MAINTAIN ALL NECESSARY WARNING AN SAFETY DEVICES (FLASHING LIGHTS, BARRICADES, SIGNS, etc.) TO PROTECT PUBLIC SAFETY AND HEALTH UNTIL ALL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE TOWN OF ADDISON.
7. ALL WATER AND SEWER CROSSINGS SHALL BE CENTERED ON THE JOINT OF PIPE.
8. ALL SANITARY SEWER PIPE SHALL BE SDR 35 PVC (ASTM 3034). EXCESSIVE DEPTH LINES MAY REQUIRE A DIFFERENT PIPE SPECIFICATION. REFERENCE PLANS FOR LOCATION AND LIMITS OF EXCESSIVE DEPTH PIPE.
9. ALL SANITARY SEWER AND WATER LINES SHALL BE TESTED IN ACCORDANCE WITH TOWN OF ADDISON STANDARD SPECIFICATIONS.
10. ALL SANITARY SEWER MAIN CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE TEXAS STATE DEPARTMENT OF HEALTH RULES AND REGULATIONS FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
11. THE LOCATION OF EXISTING UNDERGROUND FACILITIES INDICATED ON THE PLANS IS TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES, OTHER THAN THOSE SHOWN ON THE PLAN, MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES FOUND.
12. WATER MAINS SHALL BE PVC C909, DR18, CLASS 200
13. ALL WATER LINE FITTINGS SHALL BE GRAY OR DUCTILE CAST IRON AND SHALL BE CEMENT LINED INSIDE AND BITUMINOUS COATED OUTSIDE.
14. THE UTILITY CONTRACTOR SHALL PROVIDE ADEQUATE CONCRETE THRUST BLOCKING AT ALL TEES, BENDS, FIRE HYDRANTS, etc.
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, etc. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF TEMPORARY AND PERMANENT PAVING.
16. HOSE/PUMPER NOZZLES ON FIRE HYDRANTS SHALL BE 18 INCHES ABOVE THE TOP OF CURB, OR FINISHED GRADE AND SHALL FACE THE STREET OR FIRE LANE. FIRE HYDRANTS SHALL BE PLACED NOT LESS THAN THREE FEET NOR MORE THAN SIX FEET BEHIND THE CURB.
17. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 42 INCHES FROM FINISHED GRADE.
18. CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION. IF ANY DISCREPANCY IS FOUND, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER FOR RESOLUTION.
19. ALL UNDERGROUND PIPING FOR FIRE SPRINKLER SYSTEM IS REQUIRED TO BE INSTALLED BY A LICENSED CONTRACTOR AND PERMITTED THROUGH FIRE PREVENTION.
20. FIRE SPRINKLER PIPING IS REQUIRED TO BE CLASS 200.
21. CONTRACTOR SHALL REFERENCE MEP AND ARCHITECTURAL PLANS TO CONFIRM LOCATION OF BUILDING UTILITY SERVICES PRIOR TO BEGINNING CONSTRUCTION.
22. CONSTRUCTION SHALL NOT PROCEED ABOVE FOUNDATION PRIOR TO COMPLETION OF ALL FIRE LANES.
23. CONTRACTOR SHALL TERMINATE ALL UTILITY LINES FIVE FEET FROM THE FACE OF BUILDING.
24. ALL PVC TO RCP CONNECTIONS SHALL BE CONSTRUCTED WITH CONCRETE COLLARS.
25. CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
28. UTILITY BACKFILL SHALL BE TESTED ONCE PER 150 LINEAR FEET OF TRENCH.
29. ABANDONED LINE TO BE FILLED WITH GROUT WHERE UNDER PROPOSED PAVEMENT. IF ANY PORTION OF THE LINE IS UNDER THE PROPOSED BUILDING, REMOVE THE LINE WITHIN THE BUILDING ENVELOPE.

RECORD DRAWING
THIS DRAWING REFLECTS FIELD REVISIONS AS PROVIDED BY THE CONTRACTOR.

STATE OF TEXAS · JAY E. MARSH · 70773 · REGISTERED PROFESSIONAL ENGINEER

15 OCT 02

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

BENCHMARK:
TOWN OF ADDISON, TEXAS, BENCHMARK NO. 3
60D NAIL IN POWER POLE AT SOUTHEAST CORNER OF JULIAN ST. AND BROADWAY ST.
ELEV. 632.50'

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
FAX (214) 357-2985
JOB NO. 083100900

UTILITY PLAN

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	1"=30'	MARADUT1	C6

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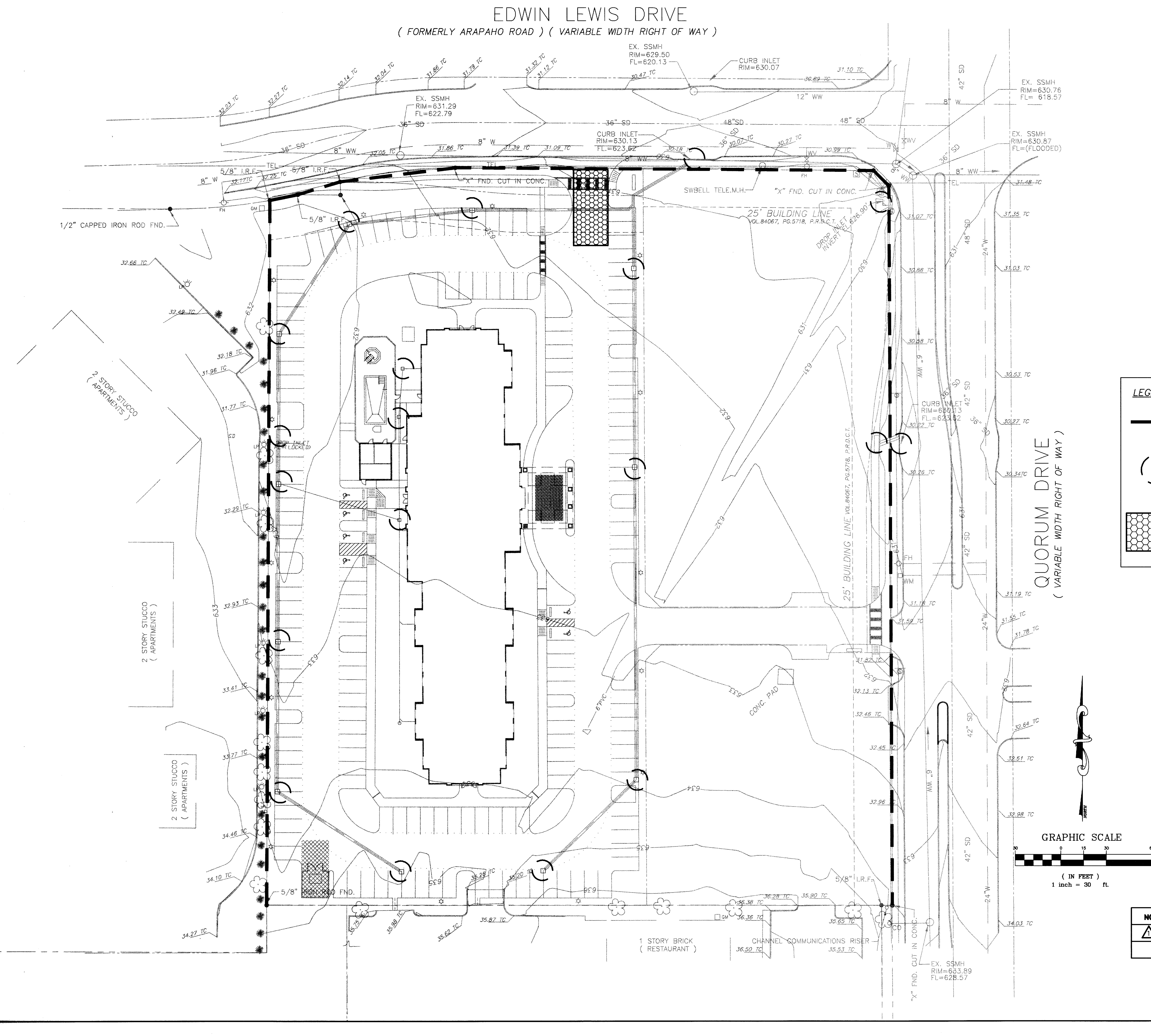

LEGEND:

EROSION CONTROL DEVICE TO BE INSTALLED PRIOR TO INITIAL GRADING (BY PROPOSED CONTRACTOR)

EROSION CONTROL DEVICE TO BE INSTALLED DURING UNDERGROUND UTILITY CONSTRUCTION (BY UTLITY CONTRACTOR)

CONSTRUCTION ENTRANCE (BY PROPOSED CONTRACTOR)

BENCHMARK:

TOWN OF ADDISON, TEXAS, BENCHMARK NO. 3
60D NAIL IN POWER POLE AT SOUTHEAST CORNER OF JULIAN ST. AND BROADWAY ST.
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JAY E. MARSH 70773 REGISTERED PROFESSIONAL ENGINEER

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EROSION CONTROL PLAN

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
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JOB NO. 083100900

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JPS	JEM	05/03/01	AS	1" = 30'	MARADEC1	C7

POLLUTION PREVENTION PLAN

POLLUTION PREVENTION DETAIL 1

I. STORM WATER PREVENTION PLAN

A. In addition to these items indicated on the Contract Documents, and in these specifications, the Contractor shall develop his own plan to prevent storm water pollutants from entering the drainage system.

B. The plan shall be in accordance with the guidelines outlined in the N.C.T.C.O.G. Best Management Practices Manual and the requirements of the Environmental Protection Agency and the requirements of the City in which the project is located.

II. STRUCTURAL PRACTICES

A. Silt fences shall be used around the perimeter of the site and existing and proposed drainage structures to retain sediments from disturbed areas, as reflected on the plan.

B. A construction entrance shall be provided where equipment and vehicles leave the site. All construction equipment and vehicles shall pass over the stabilized area in order to minimize offsite tracking of sediment.

III. STABILIZATION

A. Permanent Stabilization

1. All areas that have reached final grade shall be seeded and protected with mulch within 14 days of the final grading.

B. Mulching

1. Apply mulch to the disturbed areas to prevent erosion from raindrop impact and shallow overland flow.

2. Mulch may either be organic material that has been specifically processed to function as much or synthetic material manufactured for that use. Mulch should be applied according to the manufacturer or supplier recommendations.

C. Seeding

1. Apply seed to all disturbed areas to establish perennial ground cover.

2. Seed may be applied by broadcast, drilling, or hydromulching, according to site needs. The surface should be prepared and the seed applied according to seed supplier recommendations.

3. Seed shall be per N.C.T.C.O.G. specification 3.10.

IV. MAINTENANCE AND INSPECTIONS

A. All stabilization measures are to be in place within 14 days after construction has ceased in the disturbed areas.

1. Stabilization measures shall be in place when a temporary suspension in construction activities exceeds 21 days.

2. All erosion and sediment control measures will be checked every 7 days and within 24 hours following rainfall of 0.5 inches or greater.

B. Construction Entrances

1. Locations where vehicles and equipment enter or exit the site shall be inspected for evidence of off-site sediment packing.

2. All material that is deposited on the roadway or in any structural controls shall be removed on a regular basis.

C. Ground Cover

1. Regularly check seeding and ground cover to see that a ground cover density of 70 per cent or greater is maintained.

2. Reseed, fertilize, and/or water (as needed) those areas that do not meet the minimum requirements.

D. Equipment Storage Areas

1. Inspect all equipment and material storage areas for possible storm water pollution sources.

2. Institute appropriate measures as required in these areas.

E. Inspection Reports

1. Inspection of disturbed areas shall be performed by qualified personnel supplied by the Contractor.

2. A report summarizing the scope of inspection, name(s) and qualifications of personnel making the inspection shall be made following inspection.

3. The date of inspection, major observations, and actions taken to implement the storm water pollution prevention plan shall be included as part of the report. The report shall include any incidents of non-compliance or contain a certification that this site is in compliance with the storm water pollution prevention plan.

4. Any required modifications to the plan will be accomplished within 7 days of inspection.

V. OTHER CONTROLS

A. Waste Disposal

1. No solid materials, including any building materials, shall be discharged to the water of the United States. Discharge of a hazardous substance or oil into a storm water system is not permitted and subject to report requirements.

2. Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means is necessary to ensure that they do not discharge from the site.

B. Dust Control

1. During construction, use water trucks to reduce dust as needed.

2. Water used for dust control shall be obtained from an approved source.

C. Best Management Practices

1. The Contractor shall designate an area for equipment cleaning, maintenance, and repair. Such areas shall be utilized for the purposes by all contractors and subcontractors.

2. Washing of equipment shall take place within an earthen berm area. Use of detergents is prohibited.

3. Chemicals, paints, solvents, fertilizers and other toxic materials shall be stored in waterproof containers. Except during application, the contents shall be kept in trucks or storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of at an approved solid waste or chemical storage facility.

VI. PERMIT REQUIREMENTS

A. A Storm Water Pollution Prevention Plan must be completed for the project prior to submitting the Notice of Intent.

B. A Notice of Intent Form (EPA Form No. 3510-6) must be completed, signed and mailed at least 2 days prior to the commencement of construction activities.

C. The Storm Water Pollution Plan must be updated each time that there is a change in the construction plan.

D. A signed copy of the plan must be available at the site at all times construction is in progress.

RECORD DRAWING
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STATE OF TEXAS
JAY E. MARSH
70773
REGISTERED PROFESSIONAL ENGINEER

15OCT02

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
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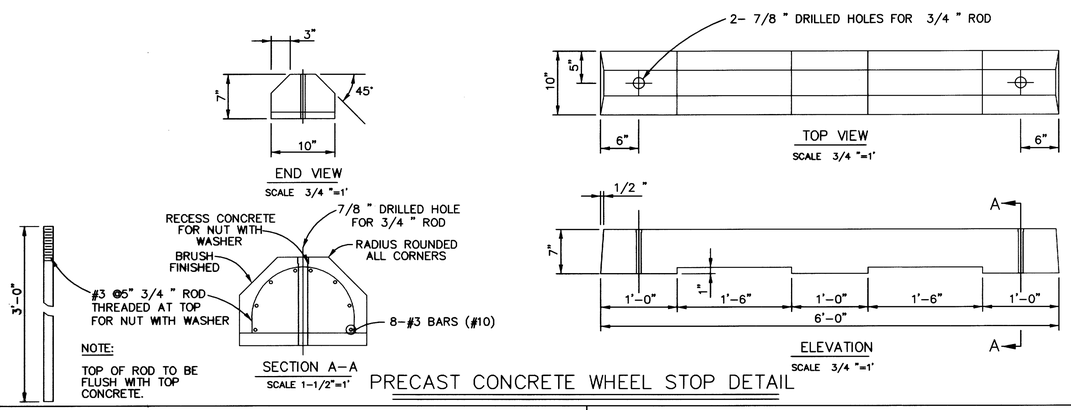
EROSION CONTROL NOTES

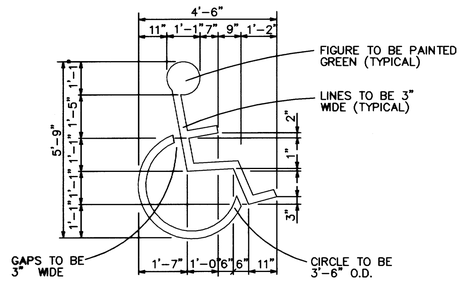
SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	1" = 30'	MARADEC2	C8

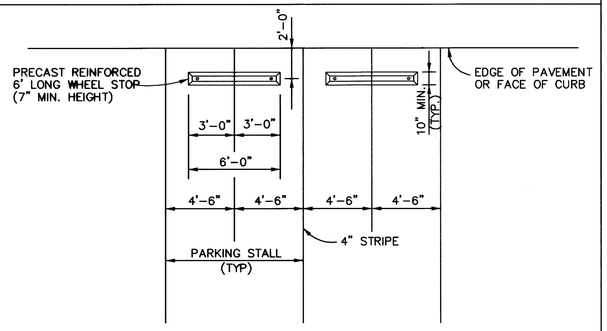


PRECAST CONCRETE WHEEL STOP DETAIL



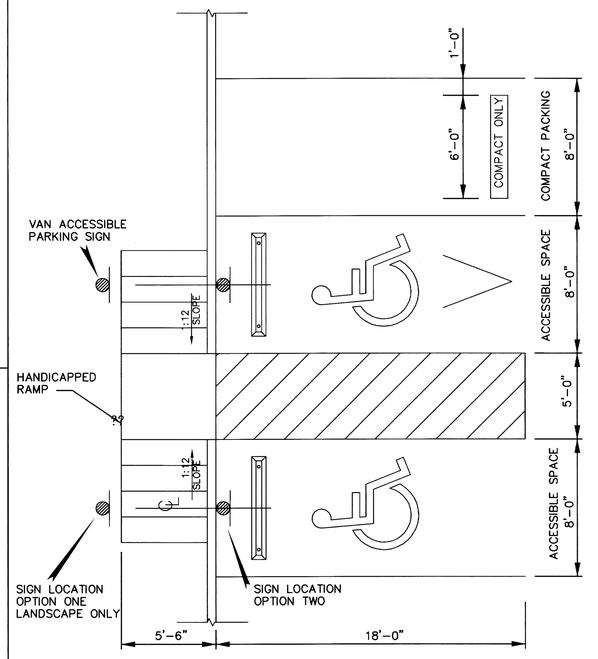
HANDICAPPED GRAPHICS DETAIL

N.T.S.



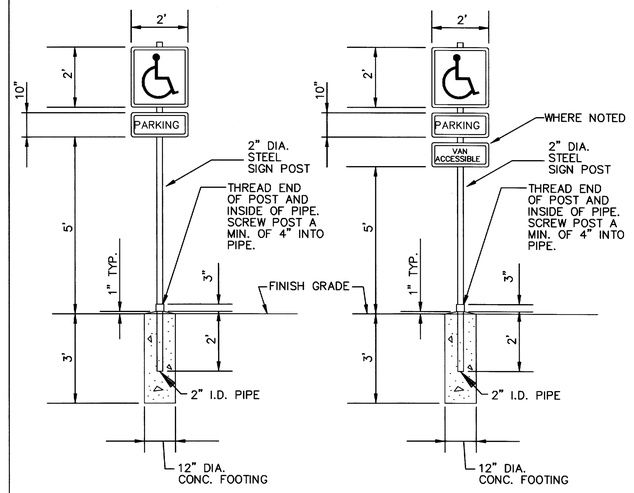
PRECAST CONCRETE WHEEL STOP PLACEMENT DETAIL

N.T.S.



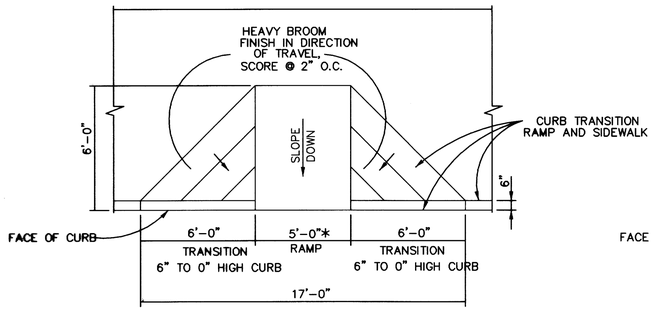
ACCESSIBLE PARKING SPACES

N.T.S.



ACCESSIBLE PARKING SIGN DETAIL

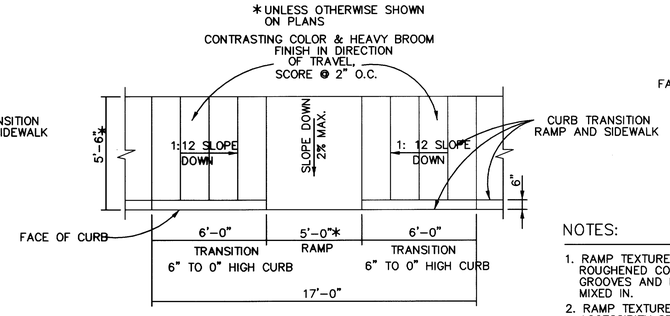
N.T.S.



DETAIL NOTE:

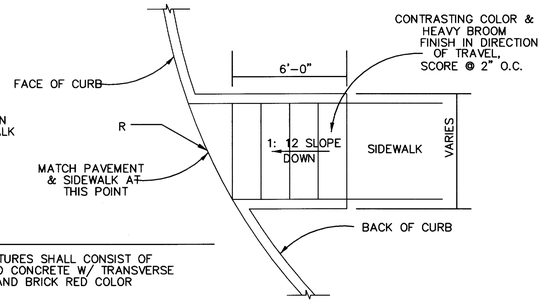
1. IF "X" IS LESS THAN 48", THEN THE CURB TRANSITION SHOULD SPAN 6'-0".

*UNLESS OTHERWISE SHOWN ON PLANS



TYPICAL HANICAPPED RAMP DETAILS

SCALE 1/4 "=1'



NOTES:

1. RAMP TEXTURES SHALL CONSIST OF ROUGHENED CONCRETE W/ TRANSVERSE GROOVES AND BRICK RED COLOR MIXED IN.
2. RAMP TEXTURES SHALL MEET TEXAS ACCESSIBITY STANDARDS.
3. GROOVES SHALL BE 1/8" DEEP, 1/4" TO 3/4" WIDE AT 3/4" TO 2" O.C. ARRANGED SO WATER WILL NOT ACCUMULATE.

GENERAL NOTES:

1. ALL PAVING DIMENSIONS ARE TO FACE OF CURBS UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL PRESERVE AND PROTECT ALL PROPERTY CORNERS AND BENCH MARKS.
3. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES. ANY UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER AND/OR TOWN OF ADDISON AT THE CONTRACTORS EXPENSE.
4. ALL PARKING ISLANDS SHALL HAVE 6" CONCRETE CURBS.
5. ALL PARKING STRIPING SHALL BE FOUR-INCHED WIDE AND TRAFFIC WHITE EXCEPT WHERE NOTED.

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

RECORD DRAWING

THIS DRAWING REFLECTS FIELD REVISIONS AS PROVIDED BY THE CONTRACTOR.

JAY E. MARSH 70773 REGISTERED PROFESSIONAL ENGINEER

15OCT02

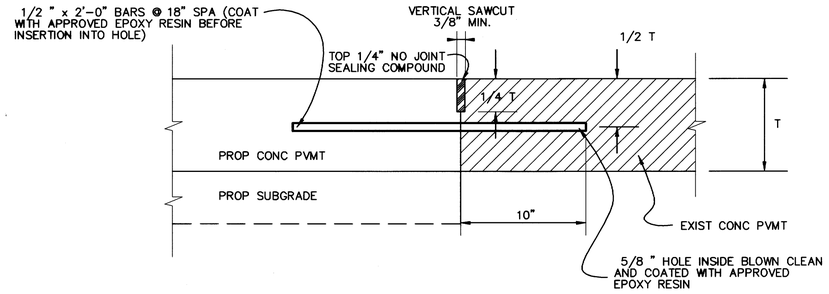
PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S-700
DALLAS, TEXAS, 75247
TEL (214) 357-2981
FAX (214) 357-2985
JOB NO. 083100900

MISCELLANEOUS PAVING DETAILS

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

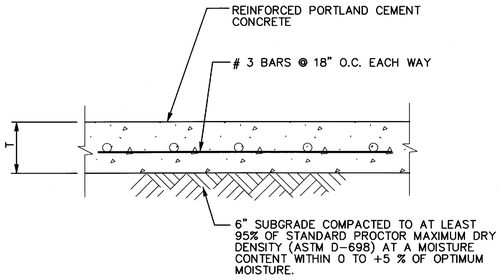
DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	N.T.S.	MARADDT1	D1



NOTE:
DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY **USE OF A** MECHANICAL RIG. DRILLING BY HANDS IS NOT ACCEPTABLE. **PUSHING** DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

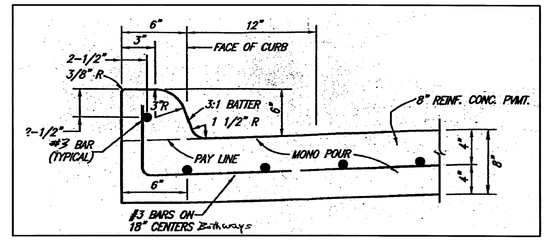
ANCHOR JOINT DETAIL

TO BE USED WHERE PROPOSED CONCRETE PAVEMENT MEETS EXISTING CONCRETE PAVEMENT



CONCRETE PAVING SECTION

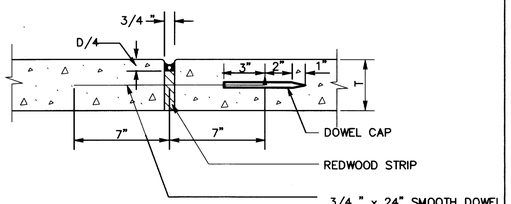
N.T.S.



ATTACHED CURB DETAIL

CURB & GUTTER DETAIL

N.T.S.

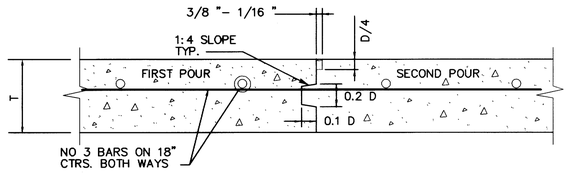


DETAIL NOTES:

ALL DOWEL CAPS SHALL BE ORIENTED IN THE SAME DIRECTION.

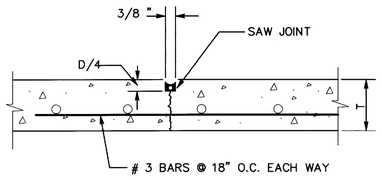
DOWELED EXPANSION JOINT DETAIL

N.T.S.



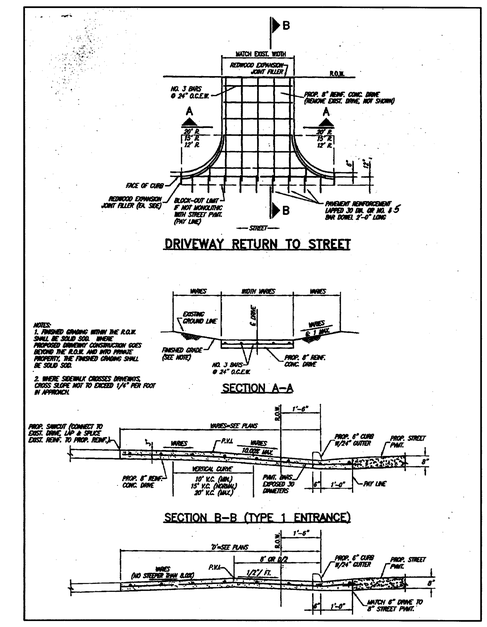
KEYWAY CONSTRUCTION JOINT

N.T.S.



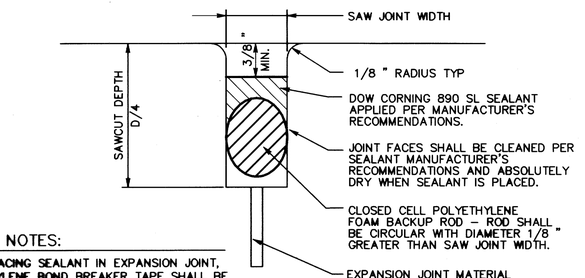
SAWED DUMMY JOINT DETAIL

N.T.S.



SECTION B-B DRIVEWAY RETURN SECTIONS

N.T.S.

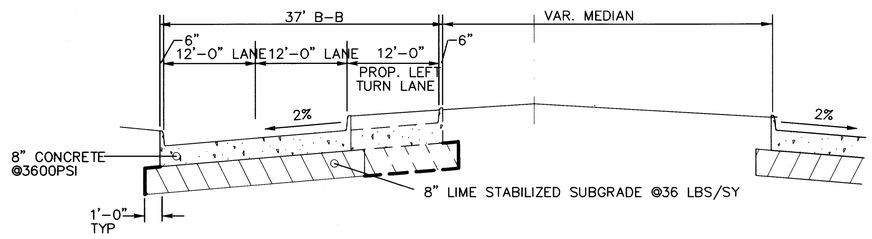


DETAIL NOTES:

WHEN PLACING SEALANT IN EXPANSION JOINT, **POLYETHYLENE BOND** BREAKER TAPE SHALL BE **ON TOP OF THE** PREMOLDED EXPANSION JOINT **IN LIEU OF** BACKUP ROD.

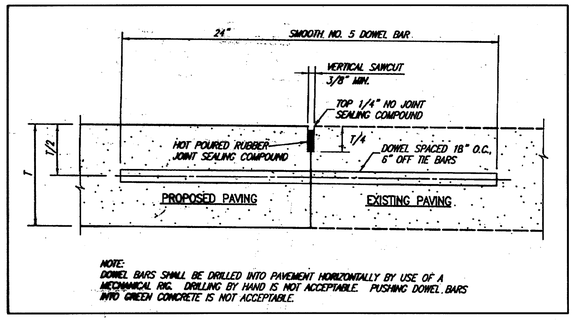
JOINT SEALANT DETAIL

N.T.S.



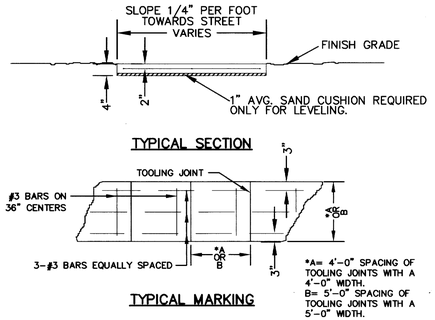
LEFT TURN LANE PAVING SECTION

N.T.S.



CONNECTION TO EXISTING PAVEMENT

N.T.S.



TYPICAL MARKING

SIDEWALK DETAILS

N.T.S.

ALL MARKINGS SHALL BE CUT 1" DEEP, FOLLOWED BY GROOVING TOOL. 1/2" PREMOLDED EXPANSION JOINT MATERIAL SHALL BE PLACED WHERE NEW WORK ABUTS OLD OR NEW WORK IS ADJACENT TO OTHER CONCRETE WORK, WALL, FOUNDATIONS, CURBS, ETC... MAXIMUM SPACING OF TRANSVERSE EXPANSION JOINTS SHALL BE 40'-0".

GENERAL NOTES:

1. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3000 P.S.I. AT 28 DAYS.
2. EXPANSION JOINTS SHALL BE 1/2" THICK REDWOOD FOR FULL DEPTH OF SIDEWALK AND SHALL INCLUDE GREASED 24" SMOOTH 1/2" DIA. DOWEL STEEL BARS WITH CAPS.

NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

RECORD DRAWING
THIS DRAWING REFLECTS FIELD REVISIONS AS PROVIDED BY THE CONTRACTOR.

STATE OF TEXAS
JAY E. MARSH
70773
REGISTERED PROFESSIONAL ENGINEER
15 OCT 02

PATE ENGINEERS
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SUITE S-700
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TEL (214) 357-2981
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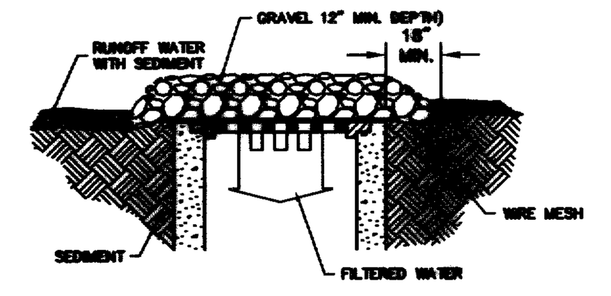
JOB NO. 083100900

MISCELLANEOUS PAVING DETAILS

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

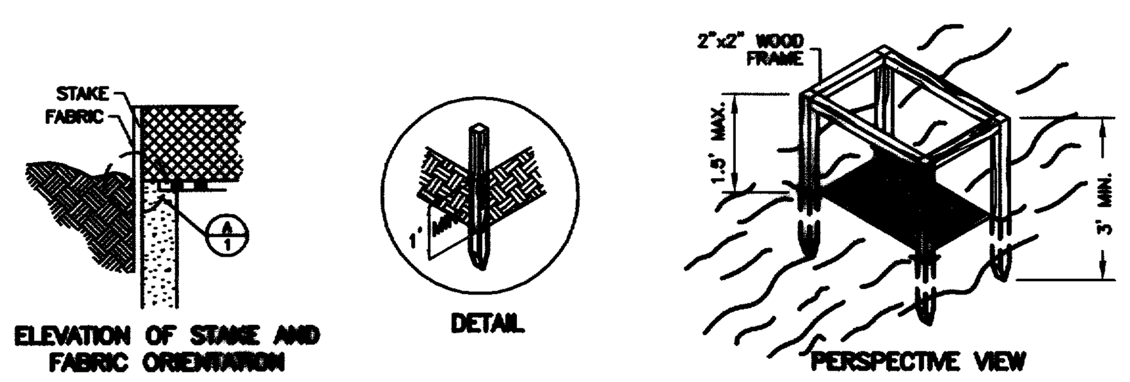
DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	N.T.S.	MARADDT2	D2

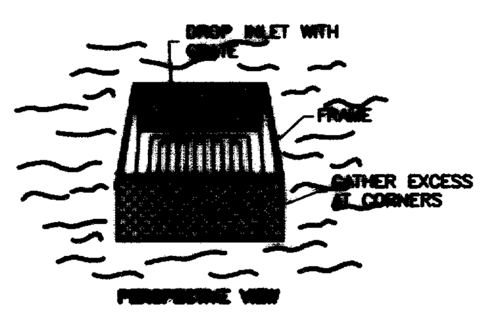


CROSS SECTION
N.T.S.

SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE AND UNPROTECTED AREAS.

INLET PROTECTION WIRE MESH AND GRAVEL
N.T.S.





SPECIFIC APPLICATION
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT TO EXCEED 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREETS OR HIGHWAY MEDIANS.

II. ALTERNATIVE INSTALLATION FILTER FABRIC PROTECTION
N.T.S.

Hazardous Waste Management

DESCRIPTION
The hazardous waste management BMP addresses the problem of storm water polluted with hazardous waste through spills or other forms of contact. The objective of the Management Program is to minimize the potential of stormwater contamination from common construction site hazardous wastes through appropriate recognition, handling, storage and disposal practices.

It is not the intent of this Management Program to supersede or replace normal site assesment and remediation procedures. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job-site contaminants should be immediately reported to regulatory authorities and protective actions taken. The General Permit requires reporting of significant spills to the National Response Center (NRC) at (800) 424-8802.

PRIMARY USE
These management practices along with applicable OSHA and EPA guidelines should be incorporated at all construction sites which use or generate hazardous wastes. Many wastes such as fuel, oil, grease, fertilizer and pesticide are present at most construction sites.

INSTALLATION, APPLICATION AND DISPOSAL CRITERIA
The hazardous waste management techniques presented here are based on proper recognition, handling, and disposal practices by construction workers and supervisors. Key elements of the management program are education, proper disposal practices, as well as provisions for safe storage and disposal. Following are lists describing the targeted materials and recommended procedures:

- Targeted Solid Waste Materials
  - Paints
  - Solvents
  - Stains
  - Wood preservatives
  - Cutting oils
  - Greases
  - Roofing tar
  - Pesticides
  - Fuels and lube oils
  - Lead based paints (Demolition)

Storage Procedures
- Wherever possible, minimize use of hazardous materials.
- Minimize generation of hazardous wastes on the job-site.
- Segregate potentially hazaedous waste from non-hazardous construction site debris.
- Designate a foreman or supervisor to oversee hazardous materials handling procedures.
- Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover.
- Store waste materials away from drainage ditches, swales and catch basins.
- Use containment berms in fueling and maintenance areas and where the potential for spills is high.
- Ensure that adequate hazardous waste storage volume is available.
- Ensure tht hazardous waste collection containers are conveniently located.
- Do not allow potentially hazardous waste materials to accumulate on the ground.
- Enforce hazardous waste handling and disposal procedures.
- Clearly mark on all hazardous waste containers which materials are acceptable for the container.

Disposal Procedures
- Regularly schedule hazardous removal to minimize on-site storage.
- Use only reputable, licensed hazardous waste haulers.

Education
- Instruct workers in identification of hazardous waste.
- Educate workers of potential dangers to humans and the environment from hazardous wastes.
- Instruct workers on safety procedures for common construction site hazardous wastes.
- Educate all workers on hazardous waste storage and disposal procedures.
- Have regular meetings to discuss and reinforce identification, handling and disposal procedures (incorporate in regular safety seminars).
- Establish a continuing education program to indoctrinate new employees.

Quality Assurance
- Foreman and/or construction supervisor shall monitor on-site hazardous waste storage and disposal procedures.
- Educate and if necessary, discipline workers who violate procedures.
- Ensure that the hazardous waste disposal contractor is reputable and licensed.

Requirements
- Job-site hazardous waste handling and disposal education and awareness program.
- Commitment by management to implement hazardous waste management practices.
- Compliance by workers.
- Sufficient and appropriate hazardous waste storage containers.
- Timely removal of stored hazardous waste materials.

Costs
- Possible modest cost impact for additional hazardous storage containers.
- Commitment by management to implement hazardous waste management practices.
- Small cost impact for training and monitoring.
- Potential cost impact for hazardous waste collection and disposal by licensed hauler – actual cost depends on type of material and volume.

LIMITATIONS
This practice is not intended to address site-assessments and pre-existing contamination. Major contamination, large spills and other serious hazardous waste incidents require immediate response from specialists.
Demolition activities and potential pre-existing materials, such as asbestos, are not addressed by this program. Site specific information on plans is necessary.
Contaminated soils are not addressed.
One part of a comprehensive construction site waste management program.

Applications
Perimeter Control
Slope Protection
Sediment Trapping
Channel Protection
Temporary Stabilization
Permanent Stabilization
[Waste Management]
[Housekeeping Practices]

Targeted Constituents
○ Sediment
● Nutrients Toxic Materials
● Oil & Grease
○ Floatable Materials
● Other Construction Wastes

Implementation Requirements
◒ Capital Costs
◒ Maintenance
◒ Training
○ Suitability for Slopes > 5%

Legend
● Significant Impact
◒ Medium Impact
○ Low Impact
? Unknown or Questionable Impact

W–2

Concrete Waste Management

DESCRIPTION
Concrete waste at construction sites comes in two forms; 1)excess fresh concrete mix including truck and equipment washing, and 2) concrete dust and concrete debris resulting from demolition. Both forms have the potential to impact water quality through storm water runoff contact with the waste.

PRIMARY USE
Concrete waste is present at most construction sites. This BMP should be utilized at sites in which concrete waste is present.

APPLICATIONS
A number of water quality parameters can be affected by introduction of concrete – especially fresh concrete. Concrete affects the pH of runoff, causing significant chemical changes in water bodies and harming aquatic life. Suspended solids in the form of both cement and aggregate dust are also generated from both fresh and demolished concrete waste.

Current Unacceptable Waste Concrete Disposal Practices
- Dumping in vacant areas on the job-site.
- Illicit dumping off-site.
- Dumping into ditches or drainage facilities.

Recommended Disposal Practices
- Avoid unacceptable disposal practices listed above.
- Develop pre-determined, safe concrete disposal areas.
- Provide a washout area with a minimum of 6 cubic feet of containment area volume for every 10 cubic yards of concrete poured.
- Never dump waste concret illicitly or without property owners knowledge and consent.
- Treat runoff from storage areas through the use of structural controls as required.

Education
- Drivers and equipment operators should be instructed on proper disposal and equipment washing practices (see above).
- Supervisors must be made aware of the potential enviornmental consequences of improperly handled concrete waste.

Enforcement
- The construction site manager or foreman must ensure that employees and pre-mix companies follow proper procedures for concrete disposal and equipment washing.
- Employees violating disposal or equipment cleaning directives must be re-educated or disciplined if necessary.

Demolition Practices
- Monitor weather and wind direction to ensure concrete dust is not entering drainage structures and surface waters. Where appropriate, construct sediment traps or other types of sediment detention devices downstream of demolition activities.

Requirements
- Use pre-determined disposal sites for waste concrete.
- Prohibit dumping waste concrete anywhere but pre-determined areas.
- Assign pre-determined truck and equipment washing areas
- Educate drivers and operators on proper disposal and equipment cleaning procedures.

Education
- Minimal cost impact for training and monitoring.
- Concrete disposal cost depends on availability and distance to suitable disposal areas.
- Additional costs involved in equipment washing could be significant.

LIMITATIONS
This concrete waste management program is one part of a comprehensive construction site waste management program.

Applications
Perimeter Control
Slope Protection
Sediment Trapping
Channel Protection
Temporary Stabilization
Permanent Stabilization
[Waste Management]
[Housekeeping Practices]

Targeted Constituents
○ Sediment
● Nutrients Toxic Materials
○ Oil & Grease
● Floatable Materials
● Other Construction Wastes

Implementation Requirements
◒ Capital Costs
◒ Maintenance
◒ Training
○ Suitability for Slopes > 5%

Legend
● Significant Impact
◒ Medium Impact
○ Low Impact
? Unknown or Questionable Impact

W–3

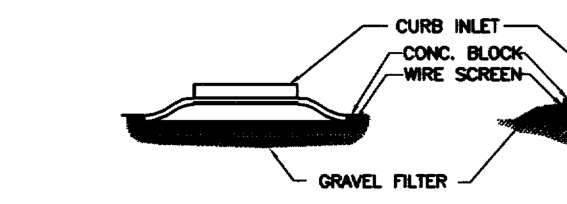
FIGURE 4.3.B
EROSION CONTROL PLAN
STANDARD GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.

2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF PLANO ENGINEERING DIVISION.

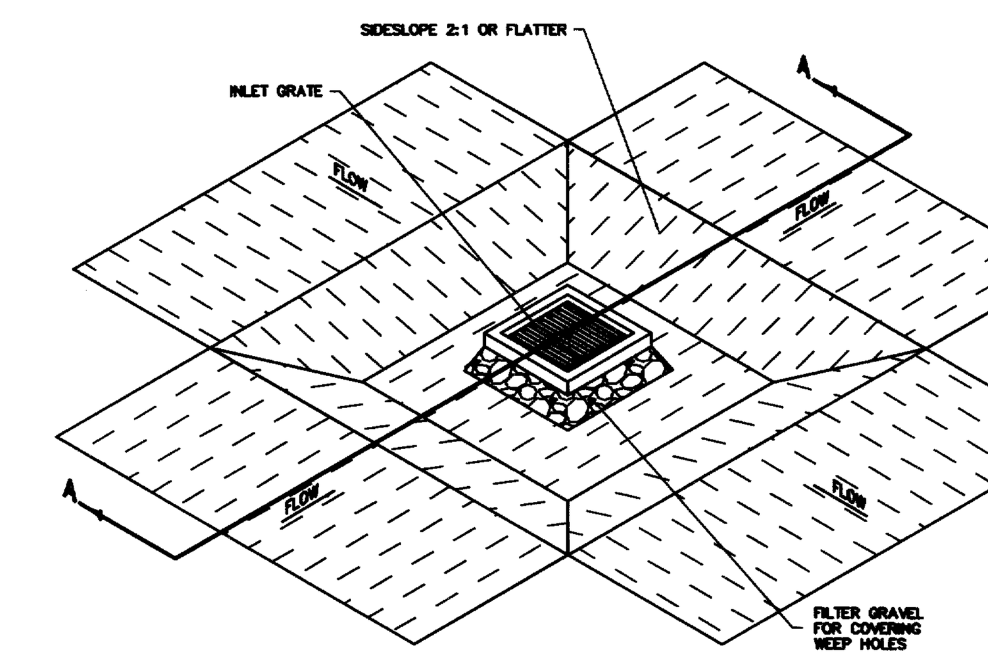
3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.

4. IF OFF-SITE SOIL BORROW OR SPOIL SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOIL AREAS ARE CONSIDERED A PART OF THE PROJECT SITE AND THEREFORE SHALL COMPLY WITH THE CITY OF PLANO EROSION CONTROL PLAN REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH PERMANENT GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.

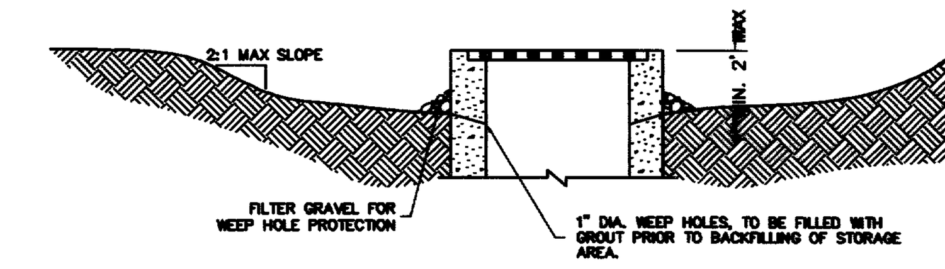


BLOCK AND GRAVEL PROTECTION
CONCRETE BLOCKS ARE TO BE PLACED ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET WITH ENDS ABUTTING. OPENING IN THE BLOCKS SHOULD FACE OUTWARD, NOT UPWARD. WIRE MESH SHALL THEN BE PLACED OVER THE OUTSIDE FACE OF THE BLOCKS COVERING THE HOLES. FILTER STONE SHALL THEN BE PILED AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS WITH THE BASE OF THE STONE BEING A MINIMUM OF 18 INCHES FROM THE BLOCKS. PERIODICALLY, WHEN THE STONE FILTER BECOMES CLOGGED, THE STONE MUST BE REMOVED AND CLEANED IN A PROPER MANNER OR REPLACED WITH NEW STONE AND PILED BACK AGAINST THE WIRE MESH.

CURB INLET PROTECTION DETAIL
N.T.S.



ISOMETRIC PLAN VIEW
N.T.S.



SECTION A–A
N.T.S.

INLET PROTECTION EXCAVATED IMPOUNDMENT

Solid Waste Management

DESCRIPTION
Large volumes of solid waste are often generated at construction sites including: packaging, pallets, wood waste, concrete waste, soil, electrical wiring, cuttings, and a variety of other materials. The solid waste management practice lists techniques to minimize the potential of storm water contamination from solid waste through appropriate storage and disposal practices.

PRIMARY USE
These practices should be a part of all construction practices. By limiting the trash and debris on site, storm water quality is improved along with reduced clean up requirements at the completion of the project.

APPLICATIONS
THe solid waste management practice for construction sites is based on proper storage and disposal practices by construction workers and supervisors.. Key elements of the program are education and modification of improper disposal habits.. Cooperation and vigilance is required on the part of supervisors and workers to ensure that the recommendations and procedures are followed. Following are lists describing the targeted materials and recommended procedures:

- Targeted Solid Waste Materials
  - Paper and cardboard containers
  - Plastic packaging
  - Styrofoam packing and forms
  - Insulation materials (non-hazardous)
  - Wood pallets
  - Wood cuttings
  - Pipe and electrical cuttings
  - concrete, brick, and mortar waste
  - Shingle cuttings and waste
  - Roofing tar
  - Steel (cuttings, nails, rust residue)
  - Gypsum board cuttings and waste
  - Sheathing cuttings and waste
  - Miscellaneous cuttings and waste
  - Food waste
  - Demoloition waste

Storage Procedures
- Wherever possible, minimize production of solid waste materials.
- Designate a foreman or supervisor to oversee and enforce proper solid waste procedures.
- Instruct construction workers in proper solid waste procedures.
- Segregate potentially hazaedous waste from non-hazardous construction site debris.
- Keep solid waste materials under cover in either a closed dumpster or other enclosed trash container that limits contact with rain and runoff.
- Store waste materials away from drainage ditches, swales and catch basins.
- Do not allow trash containers to overflow.
- Do not allow waste materials to accumulate on the ground.
- Prohibit littering by workers and visitors.
- Police area daily for litter and debris.
- Enforce solid waste handling and storage procedures.

Disposal Procedures
- If feasible, segregate recyclable wastes from non-recyclable waste materials and dispose of properly.
- General construction debris may be hauled to a licensed construction debris landfill (typically less expensive than a sanitary landfill).
- Use waste facilities approved by local jurisdiction.
- Runoff which comes into contact with unprotected waste shall be directed into structural be dirtreatment such as silt fence to remove debris.

Education
- Educate all workers on solid waste storage and disposal procedures.
- Instruct workers in identification of solid waste and hazardous waste.
- Have regular meetings to discuss and reinforce disposal procedures (incorporate in regular safety seminars).
- Clearly mark on all solid waste containers which materials are acceptable.

Quality Control
- Foreman and/or construction supervisor shall monitor on-site solid waste storage and disposal procedures.
- Disipline workers who repeatedly violate procedures.

Requirements
- Job-site waste handling and disposal education and awareness program.
- Commitment by management to implement and enforce Solid Waste Management Program.
- Compliance by workers.
- Sufficient and appropriate waste storage containers.
- Timely removal of stored solid waste materials.
- Possible modest cost impact for additional waste storage containers.
- Minimal overall cost impact.

LIMITATIONS
Only addresses non-hazardous solid waste.
One part of a comprehensive construction site management program.

Applications
Perimeter Control
Slope Protection
Sediment Trapping
Channel Protection
Temporary Stabilization
Permanent Stabilization
[Waste Management]
[Housekeeping Practices]

Targeted Constituents
○ Sediment
● Nutrients Toxic Materials
○ Oil & Grease
● Floatable Materials
● Other Construction Wastes

Implementation Requirements
◒ Capital Costs
◒ Maintenance
◒ Training
○ Suitability for Slopes > 5%

Legend
● Significant Impact
◒ Medium Impact
○ Low Impact
? Unknown or Questionable Impact

W–1

STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.

2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.

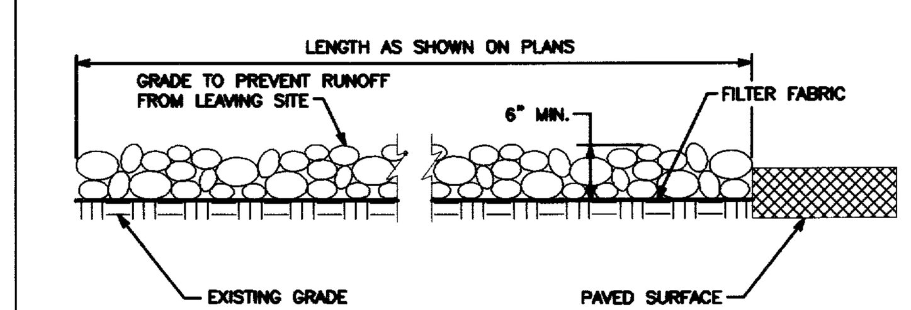
3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.

4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

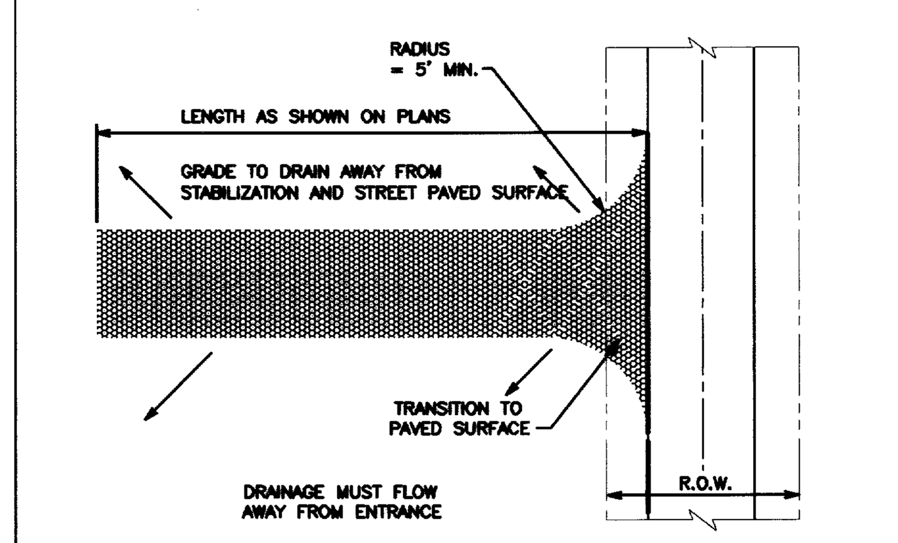
5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.

7. THE ENTRANCE MUST BE PROPERLY GRADED ON INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.



PROFILE VIEW
N.T.S.



PLAN VIEW
N.T.S.

SILT FENCE

GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.

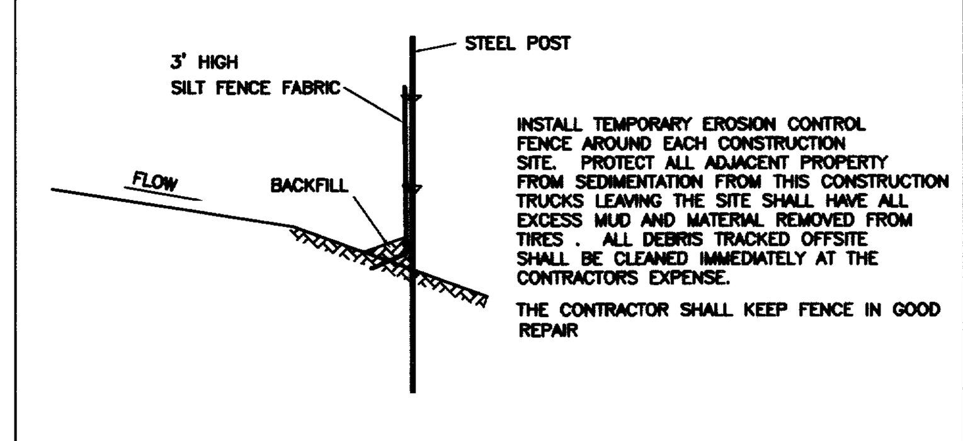
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

5. INSPECTION SHALL BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

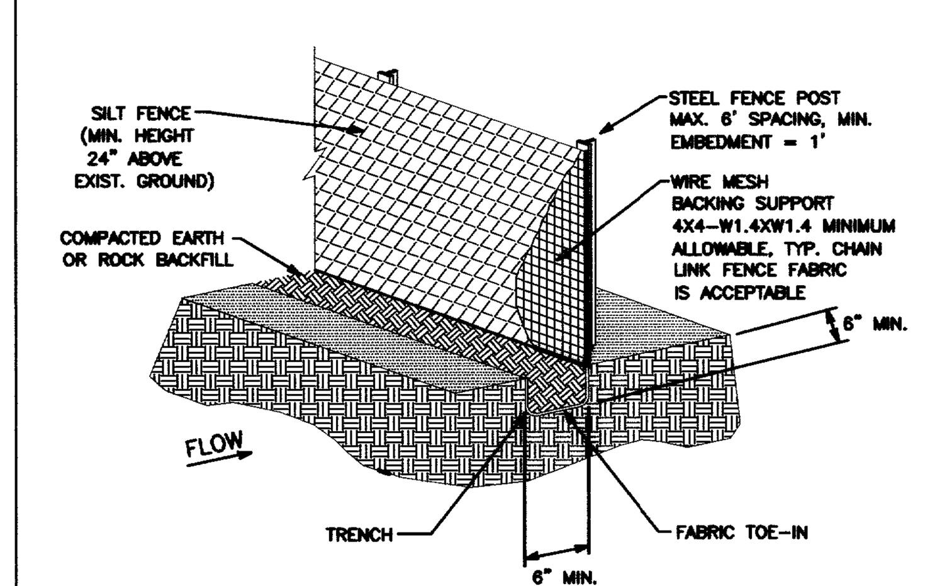
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS NOT TO CONTRIBUTE TO ADDITIONAL SILTATION.



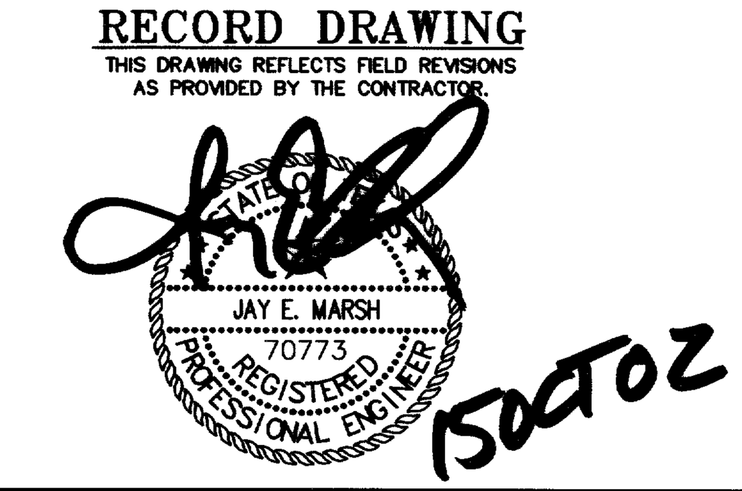
INSTALL TEMPORARY EROSION CONTROL FENCE AROUND EACH CONSTRUCTION SITE. PROTECT ALL ADJACENT PROPERTY FROM SEDIMENTATION FROM THIS CONSTRUCTION TRUCKS LEAVING THE SITE SHALL HAVE ALL EXCESS MUD AND MATERIAL REMOVED FROM TIRES . ALL DEBRIS TRACKED OFFSITE SHALL BE CLEANED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
THE CONTRACTOR SHALL KEEP FENCE IN GOOD REPAIR

PROFILE VIEW
N.T.S.



ISOMETRIC PLAN VIEW
N.T.S.

RECORD DRAWING
THIS DRAWING REFLECTS FIELD REVISIONS AS PROVIDED BY THE CONTRACTOR.



NO.	BY	DATE	REVISION
1	EAE	10/11/02	RECORD DRAWING

PATE ENGINEERS
8150 BROOKRIVER DRIVE
SUITE S–700
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TEL (214) 357–2981
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JOB NO. 083100900

EROSION CONTROL DETAILS

SPRINGHILL SUITES

TOWN OF ADDISON, TEXAS

DRAWN	DESIGN	DATE	NOTES	SCALE	FILE	NUMBER
JPS	JEM	05/03/01	AS	N.T.S.	MARADEC3	D3