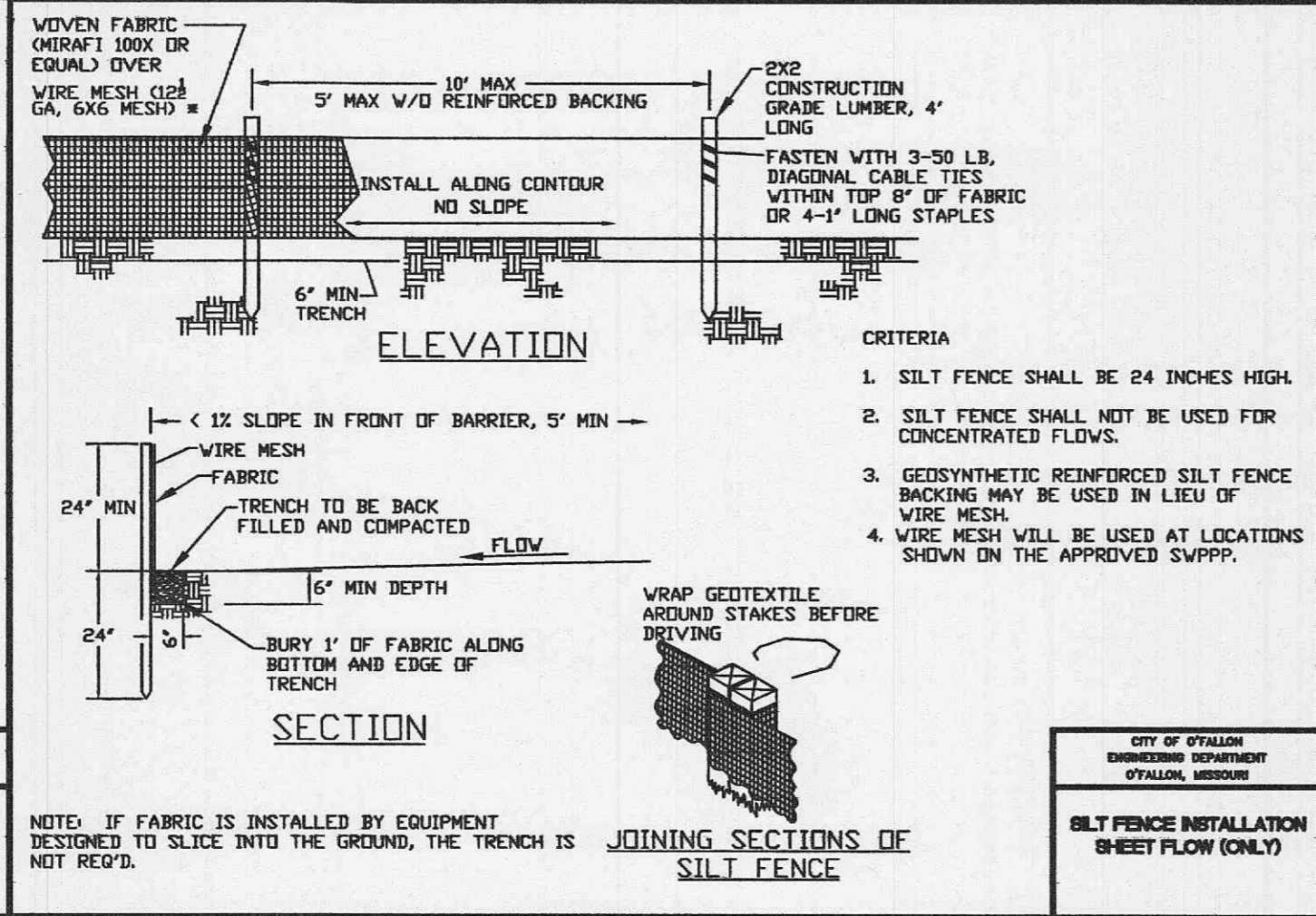


CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

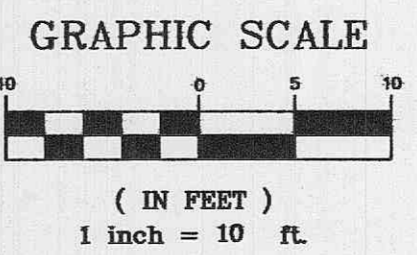
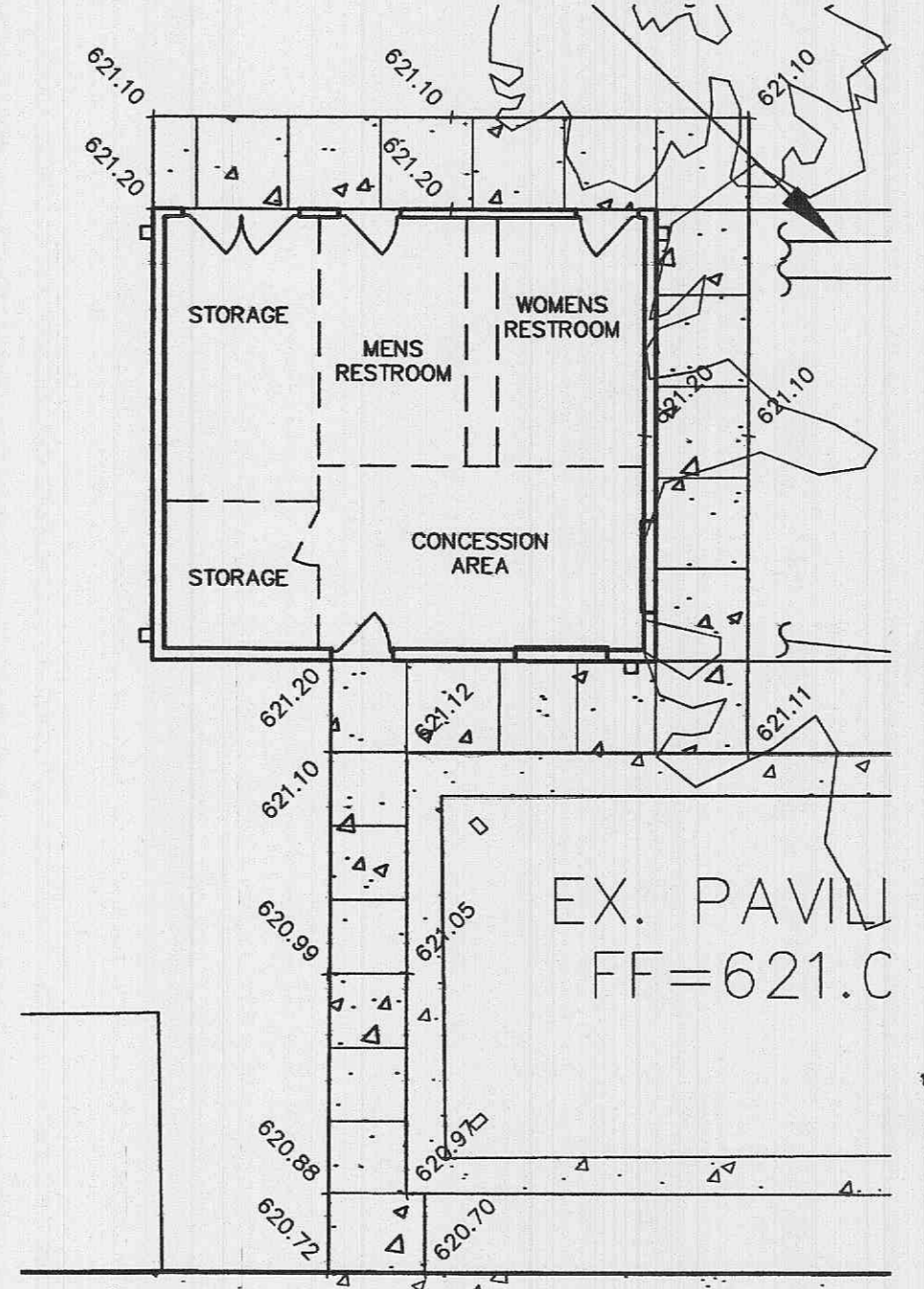
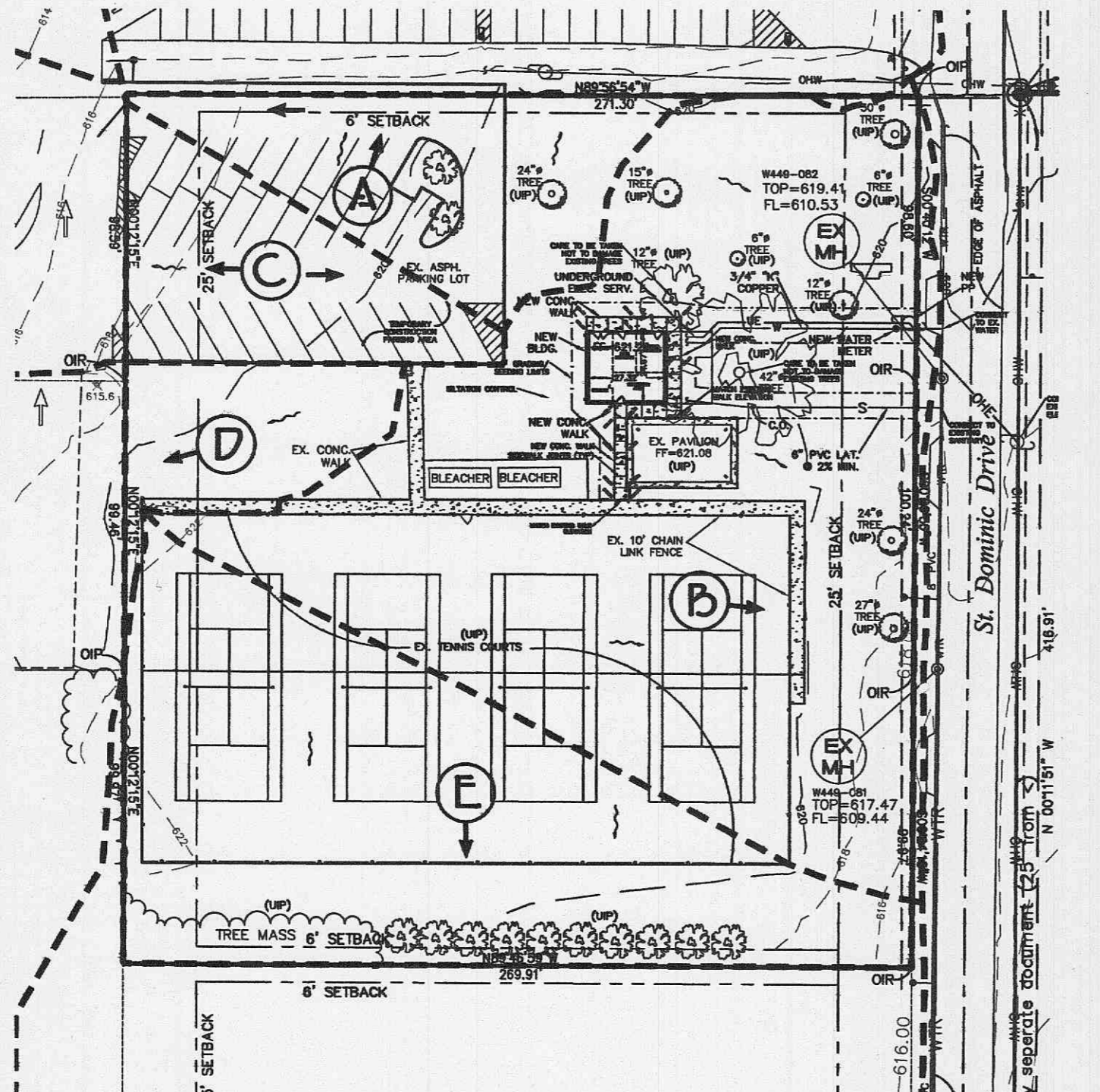
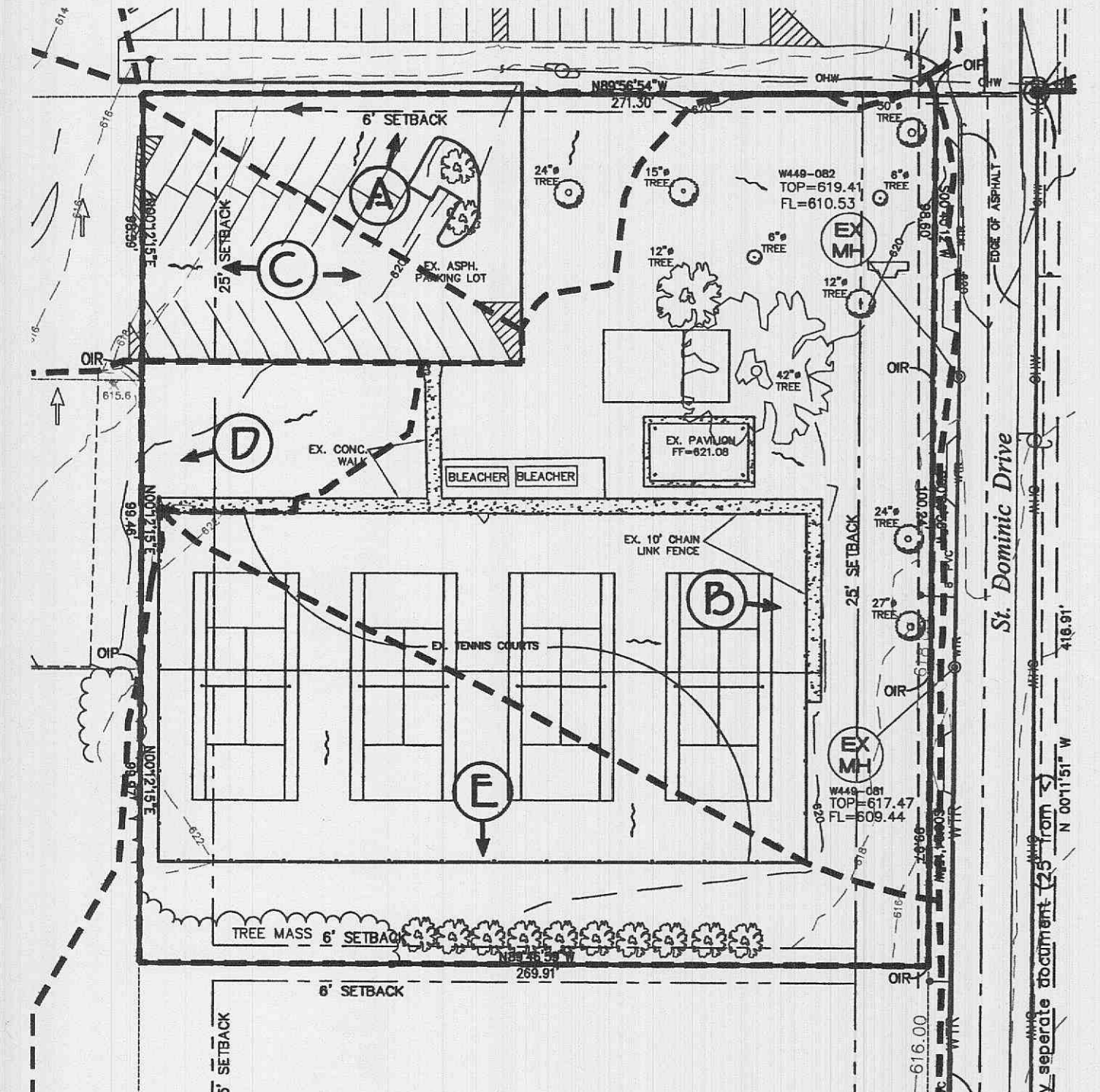
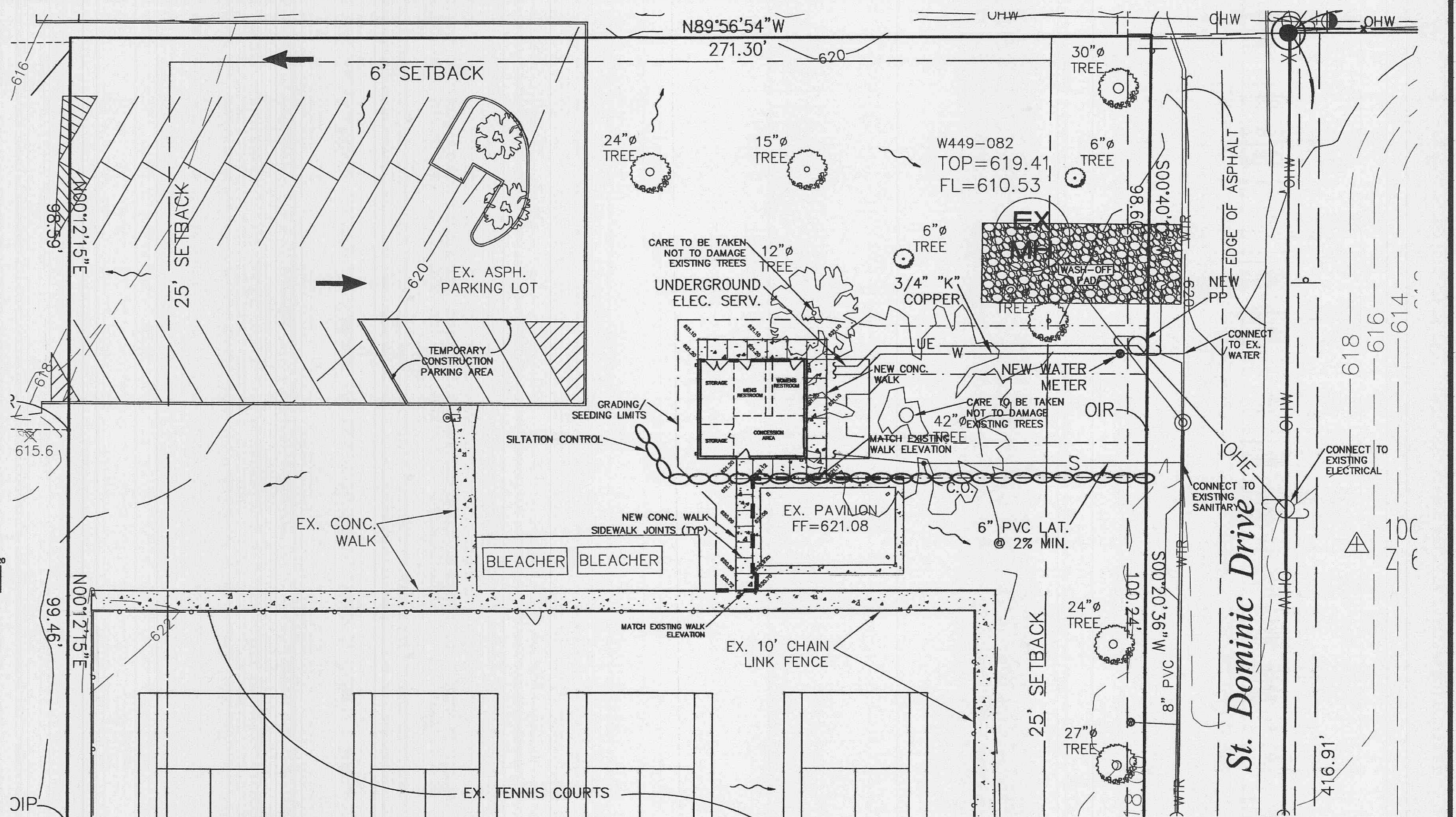
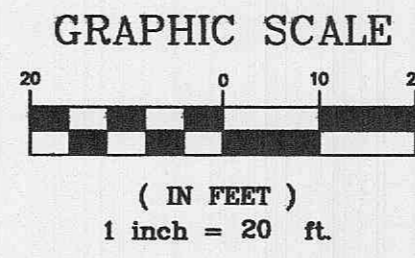
WATER AND SEWER SEPARATION DETAIL



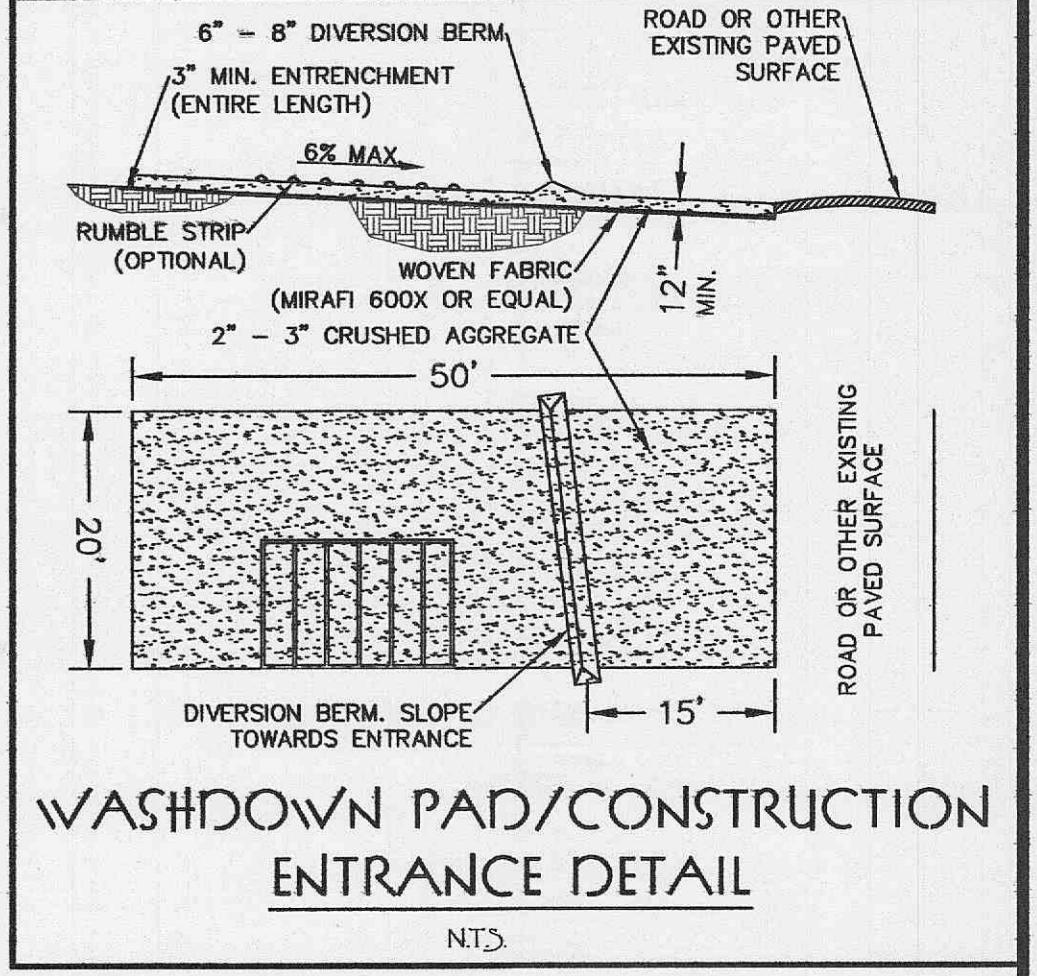
- CRITERIA**
1. SILT FENCE SHALL BE 24 INCHES HIGH.
 2. SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
 3. GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
 4. WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.

GENERAL SWPPP NOTES

1. TEMPORARY CONSTRUCTION PARKING TO BE LOCATED NEAR THE CORNER OF THE PARKING LOT.
2. CONTRACTOR TO KEEP CLEAN THE EXISTING PARKING LOTS AND ST. DOMINIC DRIVE FROM ANY MUD AND DEBRIS.
3. TEMPORARY BMP'S TO BE MAINTAINED THROUGHOUT CONSTRUCTION PROCESS.
4. TEMPORARY BMP'S TO BE REMOVED AFTER COMPLETION OF GRADING OPERATION AND/OR ESTABLISHMENT OF SITE VEGETATION.
5. ALL MUD AND DEBRIS TO BE MAINTAINED ON-SITE TO PROTECT "VALUABLE RESOURCE WATERS" AS DETERMINED BY MISSOURI DEPARTMENT OF NATURAL RESOURCES.
6. DURING NON-CONSTRUCTION TIMES THROUGH THE WINTER MONTHS, ALL EXPOSED OR UNVEGETATED AREAS SHALL BE COVERED WITH STRAW TO PREVENT EROSION.
7. ANY DAMAGED VEGETATION DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AND/OR REPLACED AFTER FINAL COMPLETION.



- NOTE:**
1. NEW WALK TO MEET ALL CITY AND ADA GUIDELINES AND SPECIFICATIONS.
 2. NO STEP AT ACCESSIBLE ENTRANCE DOORS.
 3. MAXIMUM CROSS-SLOPE NOT TO EXCEED 1:48.
 4. WALK TO MATCH EXISTING CONCRETE ELEVATIONS AT TENNIS COURT WALK AND PAVILION DAMAGED DURING CONSTRUCTION TO BE REPAIRED OR REPLACED.
 5. ANY WALK NEAR THE TENNIS COURT OR PAVILION DAMAGED DURING CONSTRUCTION TO BE REPAIRED OR REPLACED.

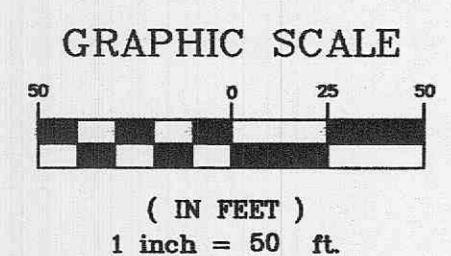


EXISTING DRAINAGE AREA

EXISTING DRAINAGE AREA

A (TO NORTH)	0.07 Ac.(1.7) + 0.11 Ac.(3.54) + 0.00 Ac.(4.2) = 0.51 c.f.s.
B (TO EAST)	0.51 Ac.(1.7) + 0.37 Ac.(3.54) + 0.02 Ac.(4.2) = 2.26 c.f.s.
C (TO WEST)	0.00 Ac.(1.7) + 0.15 Ac.(3.54) + 0.00 Ac.(4.2) = 0.53 c.f.s.
D (TO SOUTHWEST)	0.10 Ac.(1.7) + 0.005 Ac.(3.54) + 0.00 Ac.(4.2) = 0.19 c.f.s.
E (TO SOUTH)	0.22 Ac.(1.7) + 0.30 Ac.(3.54) + 0.00 Ac.(4.2) = 1.43 c.f.s.

Q = 1.53 c.f.s. + 3.31 c.f.s. + 0.08 c.f.s. = 4.92 c.f.s.



PROPOSED DRAINAGE AREA

PROPOSED DRAINAGE AREA

A (TO NORTH)	0.07 Ac.(1.7) + 0.11 Ac.(3.54) + 0.00 Ac.(4.2) = 0.51 c.f.s.
B (TO EAST)	0.48 Ac.(1.7) + 0.38 Ac.(3.54) + 0.03 Ac.(4.2) = 2.30 c.f.s.
C (TO WEST)	0.00 Ac.(1.7) + 0.15 Ac.(3.54) + 0.00 Ac.(4.2) = 0.53 c.f.s.
D (TO SOUTHWEST)	0.10 Ac.(1.7) + 0.005 Ac.(3.54) + 0.00 Ac.(4.2) = 0.19 c.f.s.
E (TO SOUTH)	0.22 Ac.(1.7) + 0.30 Ac.(3.54) + 0.00 Ac.(4.2) = 1.43 c.f.s.

Q = 1.48 c.f.s. + 3.35 c.f.s. + 0.13 c.f.s. = 4.96 c.f.s.

RUNOFF DIFFERENTIAL CALCULATIONS

15 YR./20 MIN. STORM EVENT
P.I. = 1.7 (GRASS)
P.I. = 3.54 (PVMT./WALK)
P.I. = 4.2 (BLDG.)

AREA OF TRACT = 80,751 SQ. FT. (1.86 Ac.)

EXISTING CONDITIONS: Q = 0.00 c.f.s. PROPOSED CONDITIONS: Q = 0.00 c.f.s.

DIFFERENTIAL Q:
Q = 4.96 - 4.92 = 0.04 c.f.s. (INCREASE)

NOTE: 0.04 CFS INCREASE IS UNDER THE 2 CFS RULE.

MISSOURI ONE CALL SYSTEM

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or 811
MISSOURI ONE-CALL SYSTEM INC.

Underground facilities, structures and utilities have been plotted from available surveys, records and information, and therefore, do not necessarily reflect the actual existence, non-existence, size, type, number, or location of these facilities, structures and utilities. The Contractor shall be responsible for verifying the actual location of all underground facilities, structures, and utilities, either shown or not shown on these plans. The underground facilities, structures and utilities shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.

The Professional Engineer's and/or Professional Land Surveyor's responsibility is limited to plans and other documents displaying his/her signature and seal. Engineer and Surveyor hereby disclaim responsibility for:
 * Unauthorized use of plans and/or documents prior to receipt of all review agency approvals
 * All previously issued versions of this sheet
 * This sheet whenever a revised sheet is issued
 * Individual use of any sheet that is part of a set of plans
 This applies to all plans and other documents associated with this project, whether this statement appears on them or not.

RICHARD S. WITKOP
REGISTERED PROFESSIONAL ENGINEER
NUMBER 17838
1-30-18

Client
St. Dominic High School
31 St. Dominic Drive
O'Fallon, MO 63366
314-709-1439
N/A
Mr. Steve Wing (Fac. Mgr.)
swing@stdominichs.org

No.	Date	Revision/Issue
1	01-30-18	REV. PER CITY COMMENT

St. Dominic High School - Concession Stand

Details / DAM

MUSLER ENGINEERING COMPANY

CIVIL ENGINEERING - PLANNING - LAND SURVEYING
32 PORTWEST COURT • SAINT CHARLES, MISSOURI 63093-6905
PHONE: 636-916-0444 • FAX: 636-916-3444

CITY OF O'FALLON
P & Z: Case# 17-011054
APPROVED:

City/County Job No:
17-011054

Checked: **RSM**

Proj Manager: **JRE**

Original Issue Date
1-8-18

Project No.
98-380

Sheet
4

1992-2017

St. DOMINIC HIGH SCHOOL
MR. JIM WELBY, B.S. - PRESIDENT