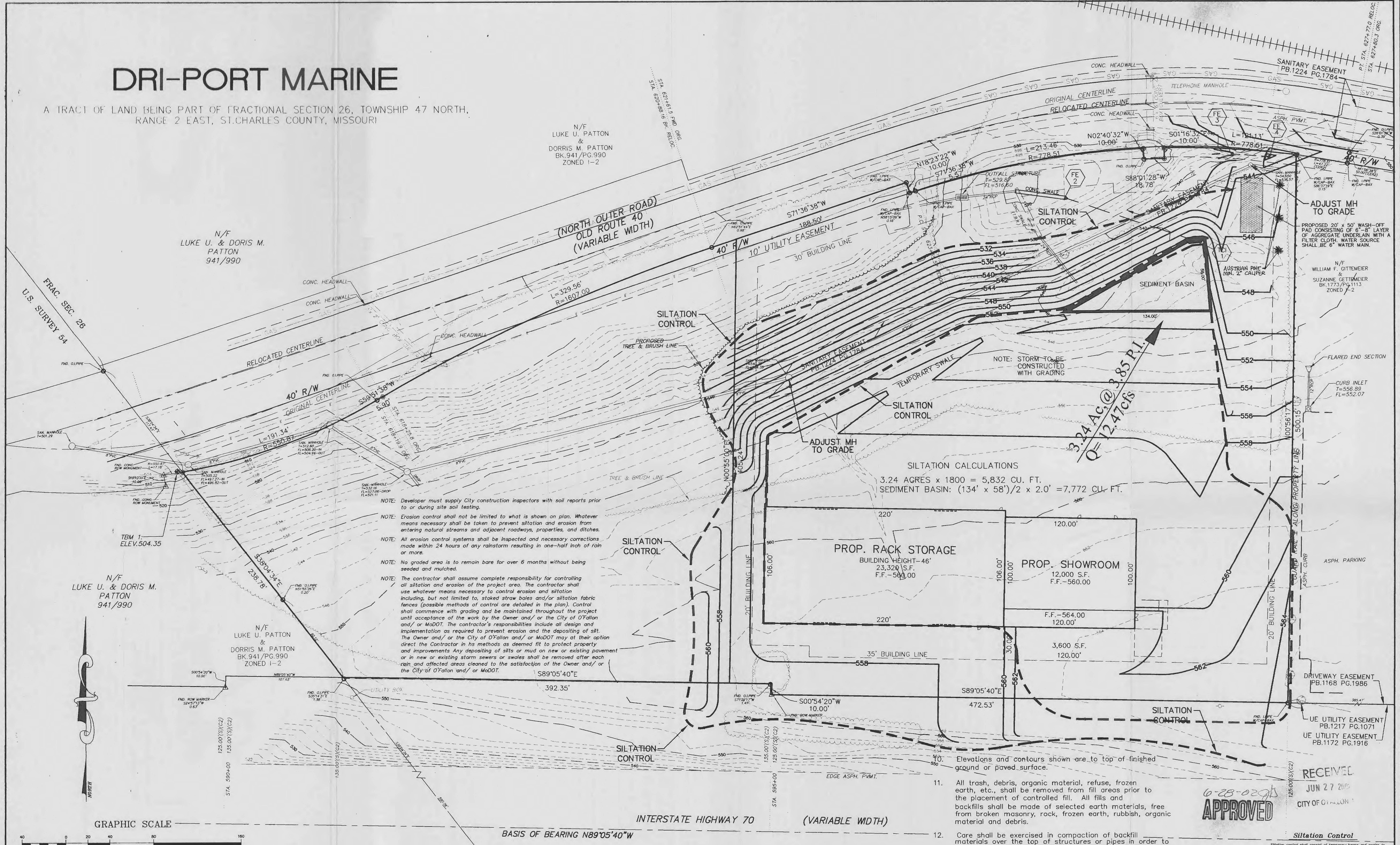
DRI-PORT MARINE

A TRACT OF LAND BEING PART OF FRACTIONAL SECTION 26, TOWNSHIP 47 NORTH, RANGE 2 EAST, ST.CHARLES COUNTY, MISSOURI



NOTE: Developer must supply City construction inspectors with soil reports prior to or during site soil testing.

NOTE: Erosion control shall not be limited to what is shown on plan. Whatever means necessary shall be taken to prevent siltation and erosion from entering natural streams and adjacent roadways, properties, and ditches.

NOTE: All erosion control systems shall be Inspected and necessary corrections made within 24 hours of any rainstorm resulting in one-half inch of rain or more.

NOTE: No graded area is to remain bare for over 6 months without being seeded and mulched.

NOTE: The contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or siltation fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/ or the City of O'Fallon and/ or MoDOT. The contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/ or the City of O'Fallon and/ or MoDOT may at their option direct the Contractor in hs methods as deemed fit to protect property and improvements Any depositing of silts or mud on new or existing pavement or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/ or the City of O'Fallon and/ or MoDOT.

TREE PRESERVATION CALCULATIONS

site contains 2.32 acres of wooded area
wooded area to be saved on site is 0.29 acres
percentage of wooded area to be svaed on site is 12.5%

GRADING NOTES

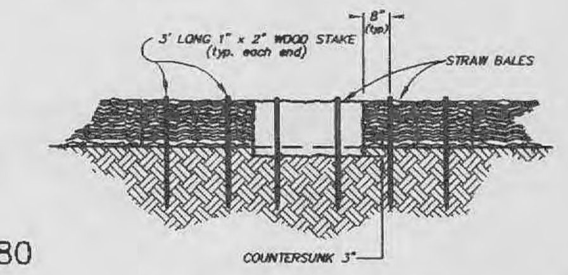
1. All straw bales must be countersunk a minimum of 3" and additional straw bales shall be placed at the direction of the city.
2. The contractor shall restore offsite construction areas to an equal or better condition than existed prior to commencement of construction.
3. Earth subgrade for paved areas must be compacted to 90% of maximum dry density as determined by a "Modified Proctor Test," (ASTM D-1557), and must be inspected and approved by a City Representative, before paving may commence.
4. Siltation control shall be straw bales placed end to end and anchored with no less than 2 1/2" x 4' reinforcing rods. Upon completion of storm sewers, straw bales shall be placed on all sides of structures and shall remain until all graded areas are seeded or sodded.
5. All grade shall be within 0.1 feet more or less of those shown on the grading plan.
6. The contractor shall field investigate the entire site prior to his bid submittal noting the existing vegetation and trees and including the removal and disposal of same in his bid.
7. No area shall be cleared without permission of the developer.
8. All graded areas shall be protected from erosion by sedimentation basins; erosion control devices or siltation basins.
9. All slopes shall be seeded or sodded and mulched. Maximum slopes shall not exceed 3 feet horizontal to one foot vertical.
10. Elevations and contours shown are to top of finished ground or paved surface.
11. All trash, debris, organic material, refuse, frozen earth, etc., shall be removed from fill areas prior to the placement of controlled fill. All fills and backfills shall be made of selected earth materials, free from broken masonry, rock, frozen earth, rubbish, organic material and debris.
12. Care shall be exercised in compaction of backfill materials over the top of structures or pipes in order to prevent damage to the waterproofing membranes, joints, seals and/or the pipes and structures themselves. Compaction and placing of backfill and fill materials shall be performed under the continuous supervision of an approved testing laboratory. Fill shall not be placed on frozen ground, nor shall filling operations continue when the temperature is such as to permit the layer under placement to freeze.
13. All filled places under proposed storm and sanitary sewer lines and/or paved areas shall be compacted to 90% of maximum density as determined by the Modified AASHTO T-180 Compaction Test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99.
14. All filled places in proposed roads shall be compacted from the bottom of the fill up to 90% maximum density as determined by the Modified AASHTO T-180 Compaction Test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations.

NOTE

Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

Siltation Control

Siltation control shall consist of temporary berms and swales to divert storm water run-off to a natural discharge point. (See Grading Plan for locations.) At which point there shall be a double row of straw bales with four feet of separation between bales and straw bales shall be staggered. In areas where a berm and swales are not feasible, a single row of straw bales shall be placed end to end to protect adjacent property and right-of-ways (this shall be the responsibility of the grading contractor or developer if so agreed). Upon completion of storm sewers, straw bales shall be placed on all sides of appropriate structures to keep silt out of storm sewer (this shall be the responsibility of the sewer contractor or the developer if so agreed). all straw bales shall be securely anchored and properly maintained until all disturbed areas are paved or vegetation established.



STAKED BALE DETAIL
N.T.S.

6-28-02 APPROVED

RECEIVED JUN 27 2002 CITY OF O'FALLON

NOT APPROVED FOR CONSTRUCTION

PICKETT RAY & SILVER
333 Mid Rivers Mall Drive
St. Peters, MO 63376
Phone (636) 397-1211
Fax (636) 397-1104
CIVIL ENGINEERS
PLANNERS
LAND SURVEYORS

DRI-PORT MARINE
GRADING PLAN
O'FALLON, MISSOURI

Prepared For:
MR. GREG MAZE
1500 S. OUTER ROAD
EUREKA, MO 63025
(636) 938-4970

REVISIONS NO.	DATE	
1	6.24.02	REVISED PER CITY'S COMMENTS
2	6.27.02	REVISED PER CITY'S COMMENTS

ENGINEERS AUTHENTICATION

The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.

PICKETT, RAY & SILVER, INC

STATE OF MISSOURI HAROLD J. BARTCH NUMBER E-17751 REGISTERED PROFESSIONAL ENGINEER

DRAWN	J.M.W.	DATE	02.25.02
CHECKED	D.W.B.	DATE	02.25.02
PROJECT #	00214.DRPO.02C		
TASK #	1	FIELD BOOK	

DRI-PORT MARINE GRADING PLAN

SHEET 1 OF 2

File