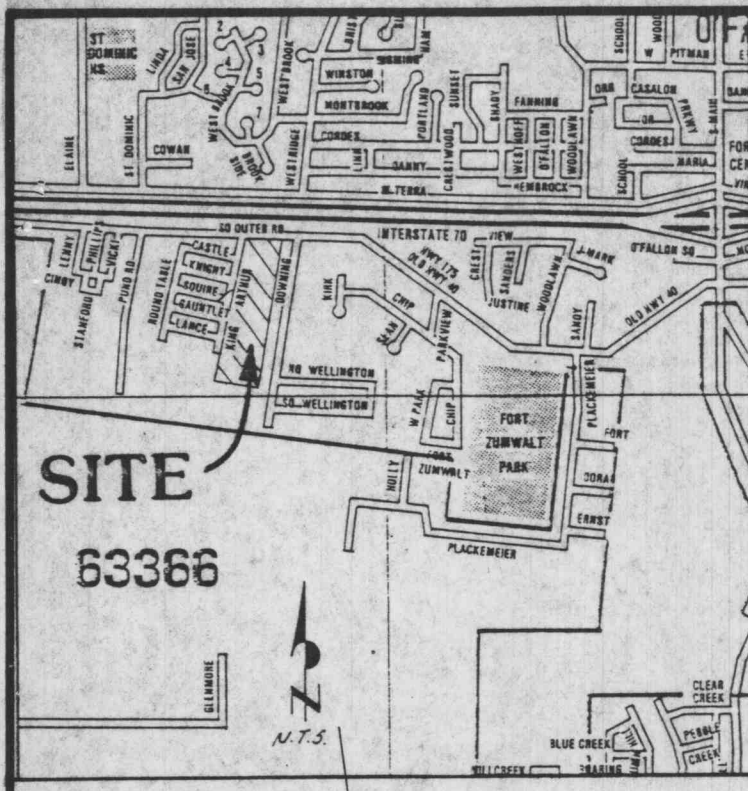
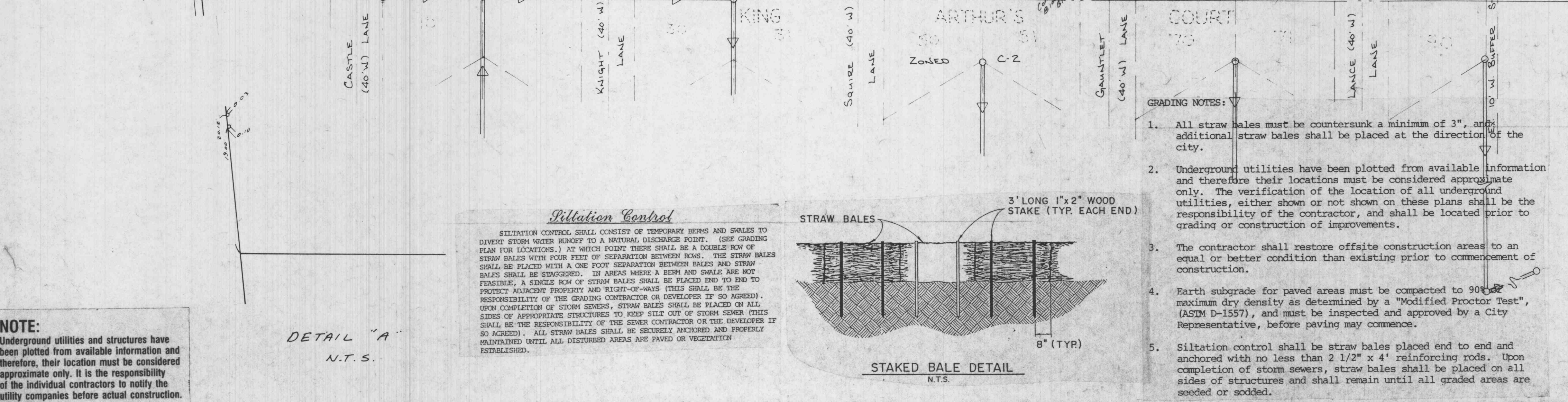
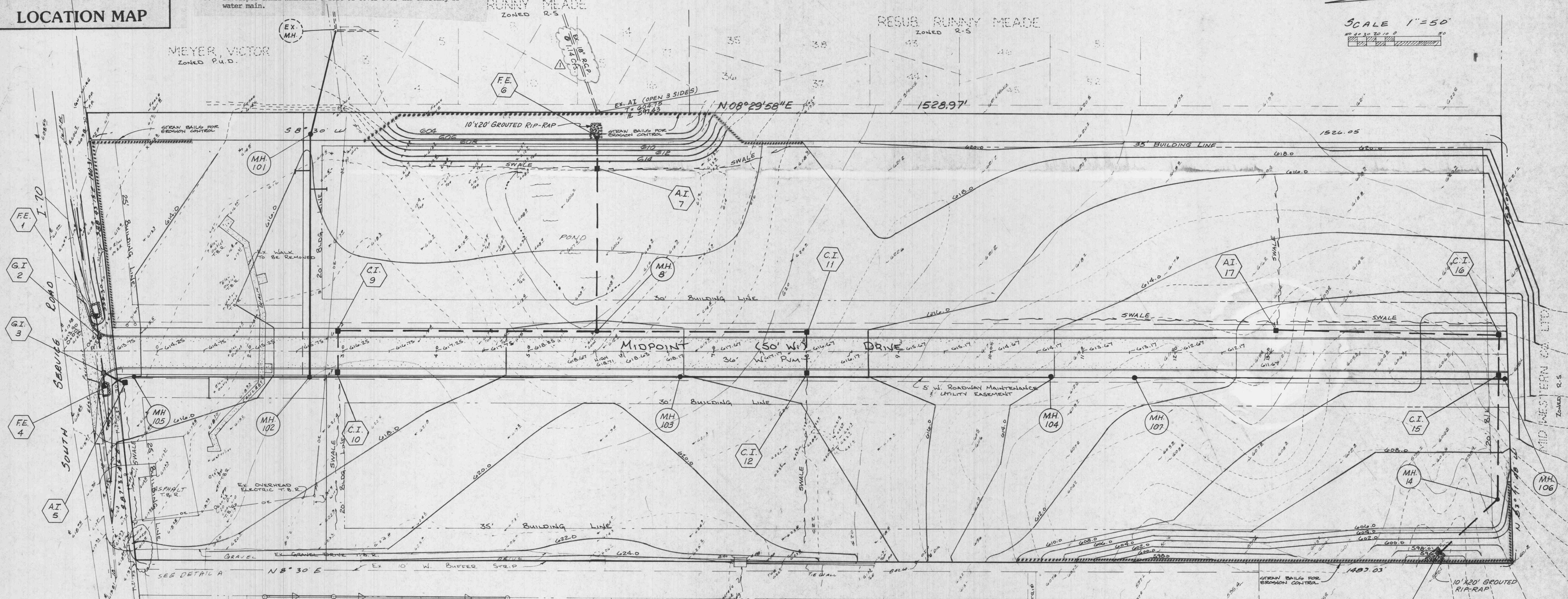
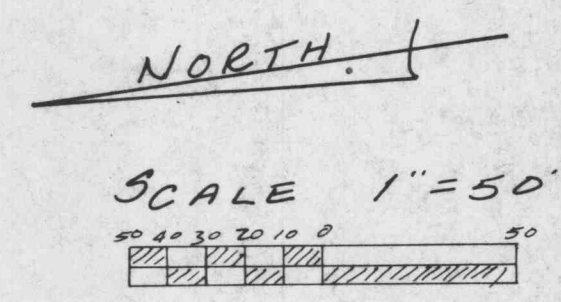


A TRACT OF LAND BEING PART OF U. S. SURVEY 55 T. 47 N. R. 3 E ST. CHARLES COUNTY MISSOURI



1. Trench backfills within the road right-of-way shall be water jetted and granular backfill be used under paved areas.
2. All filled places under proposed storm and sanitary sewer lines and/or paved areas including trench backfills within and off the road right-of-way shall be compacted to 90 percent maximum density as determined by the "Modified AASHTO T-180 Compaction Test (ASTM D-1557)". All tests shall be verified by a Soils Engineer concurrent with grading and backfill operations.
3. All filled places in proposed and existing roads shall be compacted from the bottom of the fill up to 90 percent maximum density as determined by the "Modified AASHTO T-180 Compaction Test (ASTM D-1557)". All test shall be verified by a Soils Engineer concurrent with grading operations.
4. A sediment control plan that includes monitored and maintained sediment control basins and/or straw bales should be implemented as soon as possible. No graded area is to be allowed to remain bare over the winter without being seeded and mulched. Care should be exercised to prevent this soil from damaging adjacent property and silting up existing downstream storm drainage systems.
5. Developer shall maintain 3 feet of cover over the existing 12" water main.



- 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. Underground utilities have been plotted from available information and therefore their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to grading or construction of improvements.
 3. The contractor shall restore offsite construction areas to an equal or better condition than existing prior to commencement of construction.
 4. Earth subgrade for paved areas must be compacted to 90% 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.
 5. 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.

6. All grade shall be within 0.2 feet more or less of those shown on the grading plan.
7. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
8. Owner to assume full responsibility for the performance of the grading operation. All city property and roads will be protected adequately.
9. 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.
10. No area shall be cleared without permission of the developer.

GRADING QUANTITIES
 CUT 30,407 Cu. Yds.
 FILL 30,077 Cu. Yds. INCLUDES 15% SHRINKAGE FACTOR

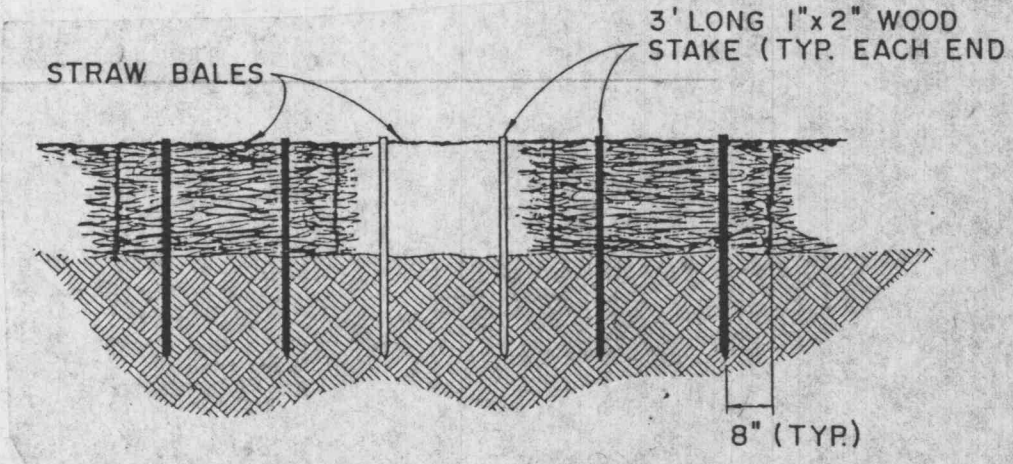
GRADING PLAN

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.

DETAIL "A"
 N.T.S.

Siltation Control

SILTATION CONTROL SHALL CONSIST OF TEMPORARY BENS AND SWALES TO DIVERT STORM WATER REMOY TO A NATURAL DISCHARGE POINT. (SEE GRADING PLAN FOR LOCATIONS.) AT WHICH POINT THESE SHALL BE A DOUBLE ROW OF STRAW BALES WITH FOUR FEET OF SEPARATION BETWEEN ROWS. THE STRAW BALES SHALL BE PLACED WITH A ONE FOOT SEPARATION BETWEEN BALES AND STRAW BALES SHALL BE STAGGERED. IN AREAS WHERE A BENS AND SWALE ARE NOT FEASIBLE, A SINGLE ROW OF STRAW BALES SHALL BE PLACED END TO END TO PREVENT ADJACENT PROPERTY AND RIGHTS-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.



PICKETT RAY & SILVER

Civil Engineers
 Planners
 Land Surveyors

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 (314) 441-3245

DRAWN D. POTWAST DATE 9-25-89	3
CHECKED J. STRAUSS DATE 9-25-89	13
FIELD BOOK 422	PROJECT # 88-134
	JOB ORDER # 5827

NOT APPROVED FOR CONSTRUCTION