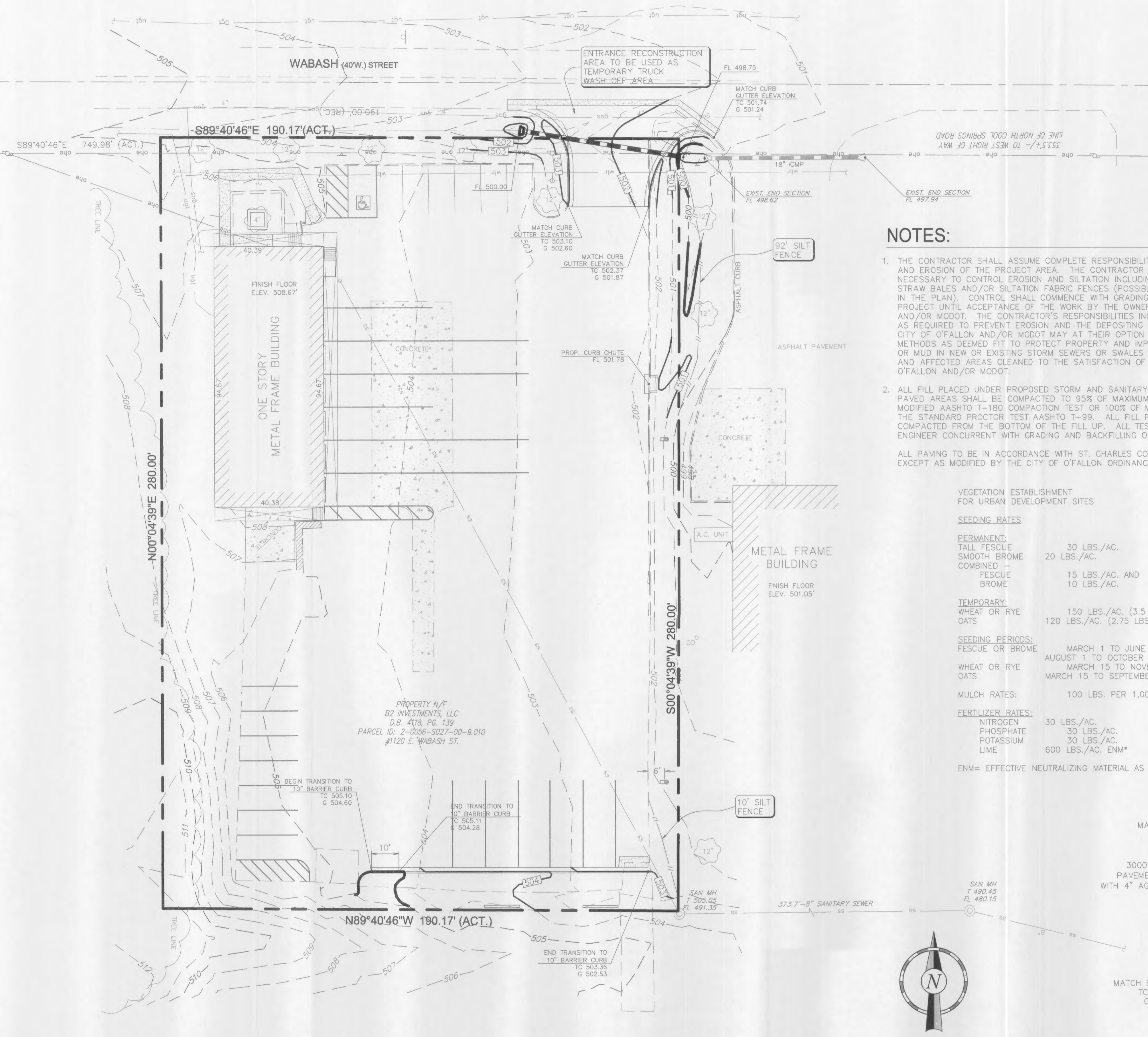


Z:\QuikTrip\08002_016602_Cross_Dock.DWG\6602_Base.dwg - Grading - Mar 18, 2008 - 1:30pm



ST	STORM PIPE (10" AND SMALLER)
ST	STORM PIPE (12" AND LARGER)
2% SLOPE	SLOPE PERCENTAGE (RISE/RUN)
4:1	SLOPE RATIO (RUN:RISE)
560	MAJOR CONTOUR (NEW)
561	MINOR CONTOUR (NEW)
560	MAJOR CONTOUR (EXISTING)
561	MINOR CONTOUR (EXISTING)
TC 555.50 G 555.00	SPOT ELEVATION (NEW)
TC 555.50 G 555.00	SPOT ELEVATION (EXISTING)
[Symbol]	STORM GRATE (NEW)
[Symbol]	CRUSHED STONE

NOTES:

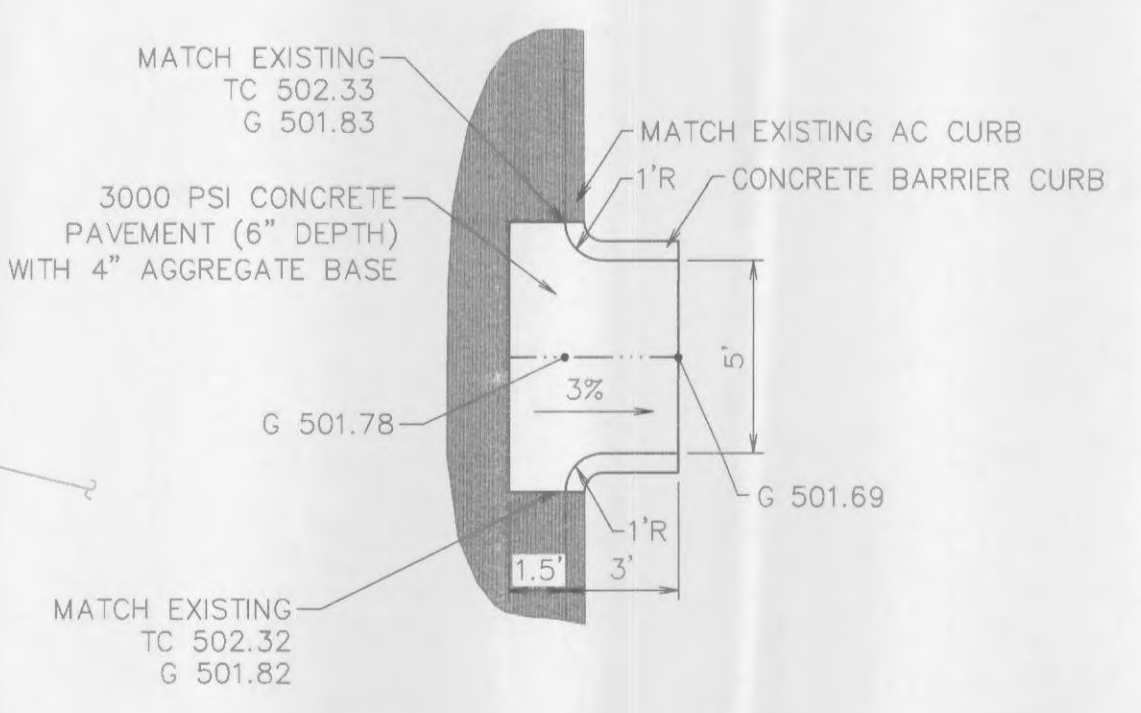
1. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES (POSSIBLE METHODS OF 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 HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILT OR MUD 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.
 2. ALL FILL PLACED UNDER PROPOSED STORM AND SANITARY SEWER, PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 100% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL FILL PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
- ALL PAVING TO BE IN ACCORDANCE WITH ST. CHARLES COUNTY STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.

VEGETATION ESTABLISHMENT FOR URBAN DEVELOPMENT SITES

SEEDING RATES

PERMANENT:	
TALL FESCUE	30 LBS./AC.
SMOOTH BROME	20 LBS./AC.
COMBINED - FESCUE BROME	15 LBS./AC. AND 10 LBS./AC.
TEMPORARY:	
WHEAT OR RYE	150 LBS./AC. (3.5 LBS. PER 1,000 SQUARE FEET)
OATS	120 LBS./AC. (2.75 LBS. PER 1,000 SQUARE FEET)
SEEDING PERIODS:	
FESCUE OR BROME	MARCH 1 TO JUNE 1
	AUGUST 1 TO OCTOBER 1
WHEAT OR RYE	MARCH 15 TO NOVEMBER 1
OATS	MARCH 15 TO SEPTEMBER 15
MULCH RATES:	100 LBS. PER 1,000 SQUARE FEET (4,356 LBS. PER ACRE)
FERTILIZER RATES:	
NITROGEN	30 LBS./AC.
PHOSPHATE	30 LBS./AC.
POTASSIUM	30 LBS./AC.
LIME	600 LBS./AC. ENM*

ENM= EFFECTIVE NEUTRALIZING MATERIAL AS PER STATE EVALUATION OF QUARRIED ROCK.



GENERAL NOTES

1. THE UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NONEXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF ANY IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT CHAPTER 319.RSMo.
2. ALL TEMPORARY EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
3. INSTALL SILTATION CONTROL FENCE PRIOR TO GRADING ALONG ALL DISTURBED AREAS. SILTATION CONTROL FENCE SHALL BE INSTALLED PER MANUFACTURERS SPEC.
4. SILT MATERIAL SHALL BE REMOVED AFTER EVERY RAINFALL OR AS REQUIRED TO MAINTAIN SILTATION CONTROL FENCE. MATERIAL REMOVED SHALL BE SPREAD ON SITE IN AN APPROPRIATE LOCATION TO DRY FOR RE-USE.

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No.	Revision	Date

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GRADING PLAN

DRAWN BY: DP	SHEET
DESIGNED BY: CDL	3
CHECKED BY: PJK	
ISSUE DATE: Mar 18, 2008	OF 4

O'FALLON, MO 1120 E. WABASH ST. QuikTrip Store No. : 6602