

McDONALDS TYPICAL GENERAL NOTES

GRADING

GENERAL NOTES

- GN # 1 Driveway locations shall not interfere with the sidewalk handicap ramps, or curb inlet sumps
- GN # 2 Sidewalks, curb ramps, ramps and accessible parking spaces shall be constructed in accordance with the current approved "American with Disabilities Act Accessibility Guidelines" (ADAAG) along with the required grades, construction materials, specifications and signage. If any conflict occurs between the above information and the plans, the ADAAG guidelines shall take precedence and the contractor prior to any construction shall notify the Project Engineer.
- GN # 3 Truncated domes for curb ramps located in public right of way shall meet ADA requirements and shall be constructed using red pre cast truncated domes per pavement details.
- GN # 4 Any proposed pavilions or playground areas will need a separate permit from the Building Division.
- GN # 5 The Contractor is responsible to call Missouri One Call and The City of O'Fallon for the location of utilities. Contact the City of O'Fallon (636) 379-3814 for the location of City maintained cable for street lights and traffic signals, all other utilities call Missouri One Call 1-800-DIG-RITE. 1-800-344-7483
- GN # 6 All proposed utilities and/or utility relocations shall be located underground.
- GN # 7 All proposed fencing requires a separate permit through the Planning and Development Division.
- GN # 8 All construction operations and work zone traffic control within the right of way will follow MoDOT or M.U.T.C.D. standards whichever is more stringent.
- GN # 9 All free standing signs shall be located a minimum of ten (10) feet away from any right of way line and/or property line and a minimum of three (3) feet from the back of curbing or sidewalk. All signs shall abide by the regulations for visibility at corners, including corners from driveways and the street it intersects per Section 400.260 of the O'Fallon Zoning Code.
- GN #10 All subdivision identification or directional sign(s) must have the locations and sizes approved and permitted separately through the Planning and Development Division.
- GN #11 Materials such as trees, organic debris, rubble, foundations, and other deleterious material shall be removed from the site and disposed of in compliance with all applicable laws and regulations. If the material listed previously are reused, a letter from a soil Engineer must clarify amount, location, depth, etc. and be approved with the construction plans. Landfill tickets for such disposal shall be maintained on file by the developer. Burning on site shall be allowed only by permit from the local fire district. If a burn pit is proposed the location and mitigation shall be shown on the grading plan and documented by the soils engineer.
- GN #12 Twenty-four (24) hours prior to starting any of the work covered by the above plans and after approval thereof, the developer shall make arrangements with the Construction Inspection Office to provide for inspection of the work, sufficient in the opinion of the City Engineer, to assure compliance with the plans and specifications as approved.
- GN #13 The City Engineer or their duly authorized representative shall make all necessary inspections of City infrastructure, escrow items or infrastructure located on the approved plans.

Erosion Control Notes

- EN # 1 The Permittee shall assume complete responsibility for controlling all siltation and erosion of the project area. The Permittee 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 the clearing operations and be maintained throughout the project until acceptance of the work by City of O'Fallon and as needed by MoDOT. The Permittee's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The City of O'Fallon and as required by MoDOT may at their option direct the Permittee in his methods as deemed fit to protect property and improvements. Any depositing of silt or mud on new or existing pavement shall be removed immediately. Any depositing of silts or mud in new or existing storm sewers and/or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the City of O'Fallon and as required by MoDOT.
- EN # 2 All erosion control systems are to be inspected and corrected weekly, especially within 48 hours of any rain storm resulting in one-half inch of rain or more. Any silt or debris leaving the site and affecting public right of way or storm water drainage facilities shall be cleaned up within 24 hours after the end of the storm.
- EN # 3 Erosion control devices (silt fence, sediment basin, etc.) shall be in accordance with St. Charles County Soil and Water Conservation District Erosion and Sediment Control guidelines.
- EN # 4 This development is required to provide long term post construction BMP's such as; low impact design, source control and treatment controls that protects water quality and controls run off to maximum extent practical in compliance with Phase II Illicit Storm Water Discharge Guidelines. (Ord. 5082, section 405.0245)
- EN #5 Graded areas shall be seeded and mulched (strawed) within 14 days of stopping land disturbance activities. Unless it can be shown to the City Engineer that weather conditions are not favorable, vegetative growth is to be established within 6 weeks of stopping grading work on the project. The vegetative growth established shall be sufficient to prevent erosion and the standard shall be as required by EPA and DNR. (70% coverage per square foot) Ord. 5242, Section 405.070

Grading Notes

- GRN #1 Developer must supply City construction inspectors with soil reports prior to and during site grading. The soil report will be required to contain the following information on soil test curves (Proctor reports) for projects within the City:
 1. Maximum dry density
 2. Optimum moisture content
 3. Maximum and minimum allowable moisture content
 4. Curve must be plotted to show density from a minimum of 90% Compaction and above as determined by the "Modified AASHTO T-180 Compaction Test" (A.S.T.M.-D-1157) or from a minimum of 95% as determined by the "Standard Proctor Test ASHTO T-99, Method C" (A.S.T.M.-D-698). Proctor type must be designated on document.
 5. Curve must have at least 5 density points with moisture content and sample locations listed on document
 6. Specific gravity
 7. Natural moisture content
 8. Liquid limit
 9. Plastic limit
 Be advised that if this information is not provided to the City's Construction Inspector the City will not allow grading or construction activities to proceed on any project site.
- GRN #2 All fill placed in areas other than proposed storm sewers, sanitary sewers, proposed roads, and paved areas shall be compacted from the bottom of the fill up in 8" lifts and compacted to 90% maximum density as determined by Modified AASHTO T-180 compaction test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99. Ensure the moisture content of the soil in fill areas corresponds to the compactive effort as defined by the Standard or Modified Proctor Test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to the City of O'Fallon prior to the placement of fill.
- GRN # 3 The surface of the fill shall be finished so it will not impound water. If at the end of a days work it would appear that there may be rain prior to the next working day, the surface shall be finished smooth. If the surface has been finished smooth for any reason, it shall be scarified before proceeding with the placement of succeeding lifts. 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.
- GRN # 4 All sediment and detention basins are to be constructed during the initial phase of the grading operation or in accordance with the approved SWPPP.
- GRN # 5 When grading operations are complete or suspended for more than 14 days, permanent grass must be established at sufficient density to provide erosion control on site. Between permanent grass seeding periods, temporary cover shall be provided according to St. Charles Soil and Water Conservation District - Model Sediment and Erosion Control Regulations. All finished grades (areas not to be disturbed by improvements) in excess of 20% slopes (5:1) shall be mulched and tacked at a rate of 100 pounds per 1000 square feet when seeded.
- GRN # 6 No slopes shall exceed 3 (horizontal): 1 (vertical) unless otherwise approved by the soils report and specifically located on the plans and approved by the City Engineer.
- GRN # 7 All low places whether on site or off shall be graded to provide drainage with temporary ditches.
- GRN # 8 All existing wells on site shall be capped per DNR standards.

Grading Notes Continued

- GRN #10 All trench back fills under paved areas shall be granular back fill, and compacted mechanically. All other trench back fills may be earth material (free of large clods, or stones) and compacted using either mechanical or water jetting. Granular material and earth material associated with new construction outside of pavements may be jetted, taking care to avoid damage to newly laid sewers. The jetting shall be performed with a probe route on not greater than 7.5 foot centers with the jetting probe centered over and parallel with the direction of the pipe. Trench widths greater than 10 feet will require multiple probes every 7.5 foot centers.
 - a) Depth, Trench back fills less than 8 feet deep shall be probed to a depth extending half the depth of the trench back fill, but not less than 3 feet. Trench back fill greater than 8 feet in depth shall be probed to half the depth of the trench back fill but not greater than 8 feet.
 - b) Equipment, The jetting probe shall be a metal pipe with an interior diameter of 1.5 to 2 inches.
 - c) Method, Jetting shall be performed from the lowest surface topographic point and proceed toward the highest point, and from the bottom of the trench back fill toward the surface. The flooding of each jetting probe shall be started slowly allowing slow saturation of the soil. Water is not allowed to flow away from the trench without first saturating the trench.
 - d) Surface Bridging, The contractor shall identify the locations of the surface bridging (the tendency for the upper surface to crust and arch over the trench rather than collapse and consolidate during the jetting process). The contractor shall break down the bridged areas using an appropriate method such as wheels or bucket of a backhoe. When surface crust is collapsed, the void shall be back filled with the same material used as trench back fill and rejected. Compaction of the materials within the sunken/jetted area shall be compacted such that no further surface subsidence occurs.
- GRN #11 Site grading.
 - a. Within City right-of-way. Material is to be placed in eight (8) inch to twelve (12) inch loose lifts and compacted per the approved compaction requirements. One (1) compaction test will be performed every two hundred fifty (250) feet along the centerline for each lift.
 - b. Outside of City right-of-way. Material is to be placed in eight (8) inch to twelve (12) inch loose lifts and compacted per the approved compaction requirements. One (1) compaction test will be performed at two (2) foot vertical intervals and approximately every one thousand (1,000) cubic yards.


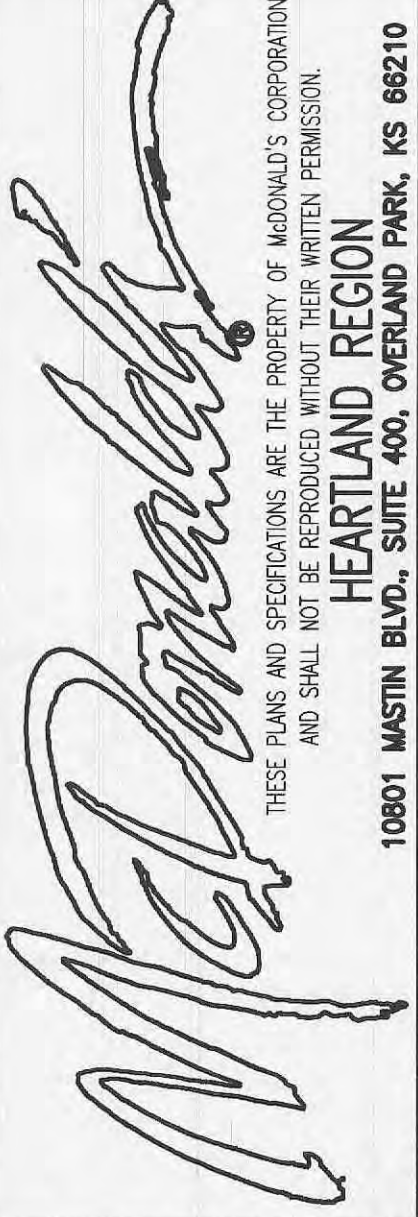
Flood plain Information

FP #1 A flood plan development application from the City is required for any work within the flood plan limits.

Retaining Walls: Terraced and Vertical

- RW #1 A permit is required for all retaining walls that are 48 inches or taller in height, measured from the top of the footing to the top of the wall or for walls that support a surcharge load or that alters the channelized drainage of any lot or drainage area.
- RW #2 Retaining walls will not be allowed in public right-of-way without written approval from the City Engineer.
- RW #3 Any retaining wall more than thirty (30) inches tall which supports a walking surface that is within two (2) feet of the wall will require a guard on the retaining wall.
- RW #4 Retaining walls that alter the channeled drainage of any lot or drainage area shall not be constructed without prior approval and permitting from the City of O'Fallon Engineering Department regardless of the height of the wall.
- RW #5 See section 405.275 of the City code for additional design requirements.

1. ALL DIMENSIONS ARE TO FRONT FACE OF CURB UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND DIMENSIONS OF NEW EXIT PORCHES, RAMPS, PATIOS, PRECISE BUILDING DIMENSIONS AND UTILITY ENTRANCE LOCATIONS.
3. THE CONTRACTOR SHALL KEEP ALL ACCESS ROADS FREE FROM MUD AND DEBRIS AT ALL TIMES.
4. THE CONTRACTOR SHALL SAWCUT ALL EDGES OF EXISTING PAVEMENT THAT IS TO BE REMOVED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CREATE A SMOOTH WORKING EDGE AND TO PLACE BACKFILL AND PAVEMENT SUCH THAT SETTLEMENT DOES NOT OCCUR.
5. REFER TO SITE LAYOUT PLAN FOR DIMENSIONAL CONTROL OF NEW IMPROVEMENTS.
6. ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE SITE IMPROVEMENTS SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF O'FALLON.
7. PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW FOR THE MOST ECONOMICAL AND PRACTICAL INSTALLATION.
8. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT CONNECTION POINTS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND CONSTRUCTION COSTS RELATED TO INSTALLATION AND CONNECTION OF ALL UTILITIES FROM LOCAL UTILITY COMPANY SOURCE TO THE NEW FACILITY.
10. EXISTING UTILITIES SHOWN HEREON ARE FROM INFORMATION PROVIDED BY UTILITY COMPANIES AND MUST BE CONSIDERED AS APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION PRIOR TO COMMENCING WORK.
11. ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE ELECTRIC SERVICE CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF LOCAL GOVERNING AUTHORITY.
12. BACKFILL ALL UTILITY TRENCHES UNDER PAVEMENT WITH GRANULAR MATERIAL. REFER TO DETAIL ON SD SHEETS.
13. REFER TO SHEET C1.2 FOR DIMENSIONS AND SHEET C1.3 FOR IDENTIFICATION OF EXISTING AND PROPOSED IMPROVEMENTS.
14. REFER TO SHEET C2.1 FOR GRADING AND C3.1 FOR ABOVE AND BELOW GROUND SEWERS AND UTILITIES.
15. COORDINATE ANY NEW LANDSCAPING REQUIRED WITH THE McDONALDS PROJECT REPRESENTATIVE.
16. ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS, AFTER INITIAL GRADING TO SIX INCHES (6") BELOW SUBGRADE. TOP SOIL TO BE ADDED TO THE LEVEL OF THE WALKS OR CURBS.
17. FINISH SPOT ELEVATIONS AND CONTOURS ARE SHOWN TO TOP OF NEW PAVEMENT, WALKS, SOD, ETC. (AND NOT FINISH ROUGH GRADE)
18. FINISH SPOT ELEVATIONS AT THE FACE OF CURBS ARE SHOWN TO TOP OF NEW PAVEMENT AT THE GUTTER LINE UNLESS OTHERWISE NOTED.
19. ALL GRADING AND DRAINAGE SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF CITY OF O'FALLON.
20. NO SLOPE SHALL EXCEED 3:1 MAXIMUM.
21. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAK. FINISH WALK AND CURB ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT. ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS. FINISH GRADING, LANDSCAPING, AND SPRINKLER SYSTEMS ARE BY THE OWNER/OPERATOR.
22. BASES, ANCHOR BOLTS, CONDUIT, AND WIRING FOR ALL SIGNS ARE BY THE GENERAL CONTRACTOR.
23. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
24. WHEN CLEARING AND/OR GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 14 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ON SITE. PROTECTIVE MEASURES MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER OR CITY OF O'FALLON SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.
25. PROVIDE WEEPHOLES ON CURBS AT ALL LANDSCAPE AREAS LOCATIONS.
26. STORM WATER PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING.
27. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENT WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE.
28. NOTIFY CITY OF O'FALLON DEPARTMENT OF PUBLIC WORKS 48 HOURS PRIOR TO THE COMMENCEMENT OF GRADING AND/OR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION 636-379-5596.
29. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS. CONTRACTOR SHALL KEEP ROAD CLEAR OF MUD AND DEBRIS.
30. ALL FILLS PLACED 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% OF MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (ASTM D-1557) FOR THE ENTIRE DEPTH OF THE FILL.
31. COMPACTED GRANULAR BACKFILL IS REQUIRED IN ALL TRENCH EXCAVATION WITHIN THE STREET RIGHT-OF-WAY AND UNDER ALL PAVED AREAS PER CITY OF O'FALLON SPECIFICATIONS. ALL TESTS SHALL BE PERFORMED UNDER THE DIRECTION OF AND VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
32. NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OF ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTLING, CRACKING OR OTHER DAMAGE.
33. CONCRETE AND ASPHALTIC CONCRETE SURFACES SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE PROJECT SPECIFICATIONS.
34. THICKEN EDGE OF ASPHALT PER SITE DETAILS WHEREVER ASPHALT PAVEMENT ADJOINS CONCRETE PAVEMENT.
35. THE CONTRACTOR SHALL FURNISH, MAINTAIN AND REMOVE TRAFFIC CONTROL DEVICES FOR THE PURPOSE OF REGULATING, WARNING AND DIRECTING TRAFFIC DURING ALL PHASES OF CONSTRUCTION IN/ADJACENT TO ROADWAYS. USE OF ALL FLAGMEN, BARRICADES, WARNING SIGNS, ETC. SHALL CONFORM TO GUIDELINES ESTABLISHED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
36. APPROVAL OF THIS PLAN BY THE CITY OF O'FALLON DOES NOT CONSTITUTE AUTHORITY TO CONDUCT CONSTRUCTION OPERATIONS OR ENCROACH ON ADJACENT PROPERTY FOR ANY REASON. IT IS THE OWNER'S RESPONSIBILITY TO SECURE PERMISSION AND/OR OBTAIN ALL NECESSARY EASEMENTS FROM AFFECTED PROPERTY OWNERS FOR ANY OFF-SITE WORK.
37. ALL HANDICAPPED APPURTENANCES, INCLUDING STRIPING, SIGNING, RAMPS, RAILS, DETECTORS ECT. MUST COMPLY WITH IBC 2003 CHAPTER 11 AND ICC/ANSI 1117.1-1998.
38. SHOULD THE RECEIVE A CONCERN ABOUT THE SOUND EMITTING FROM THE NEW ORDER STATION, THE PROPERTY OWNER AGREES TO MAKE THE NECESSARY ADJUSTMENTS TO THE SOUND LEVEL.

ISSUE REF	BY	JPB	JPB				
DESCRIPTION	DETECTION	BASIN	FENCING	CITY	COMMENTS		
REV	DATE	1	9-8-11	2	10-26-11		
							
							
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF McDONALD'S CORPORATION AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION. HEARTLAND REGION 10801 MASTIN BLVD., SUITE 400, OVERLAND PARK, KS 66210 ADDRESS: 1021 NORTH MAIN STREET, O'FALLON, MISSOURI 63366							
PLAN APPROVAL	SIGNATURE (2 REQUIRED)	DATE					
	REGIONAL MGR.						
	CONST. MGR.						
	PROJECT MANAGER						
	REAL ESTATE MGR.						
	CONTRACTOR						
	OWNER						
	CO-SIGN SIGNATURES						
STATUS	DATE	BY					
PRELIMINARY	5-25-11	FG					
FINAL PLAN	-	FG					
AS-CONST.							
C0.2 GENERAL NOTES							