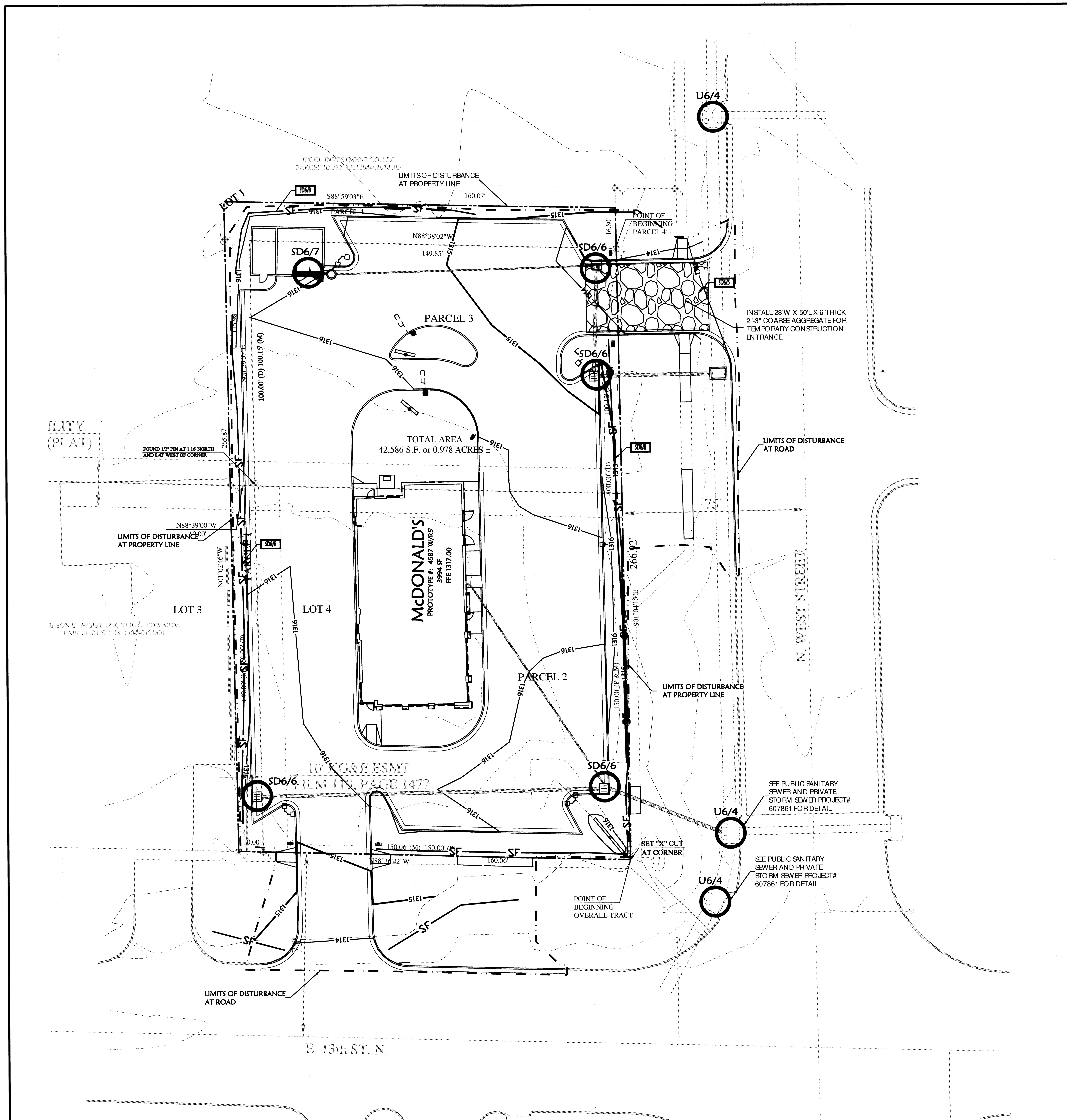

P:\06-0716 (Wichita, KS - McDonald's (13th & West)\dwg\Project\CITY REVIEW-3\06-0716-CR-3.dwg Jun 15, 2007 - 10:59AM

EROSION CONTROL GENERAL NOTES:

THE CONTRACTOR SHALL INSPECT, REPAIR AND ADD STONE TO THE STONE CONSTRUCTION ENTRANCE WHEN IT BECOMES SATURATED WITH MUD TO INSURE IT FUNCTIONS AS IT WAS INTENDED.

THE TOPSOIL STOCKPILE SHALL BE GRADED TO DRAIN AND SEEDED WITH A TEMPORARY SEED MIX.

ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED, CLEANED REPAIRED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.

TEMPORARY SEDIMENT CONTROL MEASURES (SILT FENCE, CONSTRUCTION ENTRANCE, ETC..) SHALL BE MAINTAINED UNTIL ALL CONTRIBUTING AREAS ARE GRADED AND STABILIZED.

A COMPLETE PLAN FOR MAINTENANCE OF CONTROL DEVICES IS CONTAINED WITHIN THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS PART OF THE SITE WORK SPECIFICATIONS

DUST CONTROL ON SITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS STRICTLY PROHIBITED.

IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM EXITING TRAFFIC, CONTRACTOR SHALL ESTABLISH VEHICLE WASH AREAS AT CONSTRUCTION TRAFFIC EXIT POINTS AND VEHICLE OPERATION SHALL BE INTERCEPTED AND TRAPPED BEFORE WASH WATER IS ALLOWED TO BE DISCHARGED OFFSITE. RINSE-OFF WILL NOT BE ALLOWED OUTSIDE THE PROJECT CONSTRUCTION LIMITS

REPAIR ERODED AREAS IMMEDIATELY, RESEED AS NECESSARY TO MAINTAIN GOOD VEGETATIVE COVER, MOW VEGETATIVE COVER TO MAINTAIN A MAXIMUM HEIGHT OF SIX INCHES AND REMOVE TRASH AS NEEDED.

INSPECT AND REPAIR THE COLLECTION SYSTEM (I.E. CATCH BASINS, PIPING, SWALES, RIP RAP, ETC.) AFTER SIGNIFICANT RAINFALL TO MAINTAIN PROPER FUNCTIONING.

ALL EXISTING STRUCTURES, FENCING, TREES, ETC., WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE PER STATE AND LOCAL ORDINANCES. ANY BURNING ON SITE SHALL BE SUBJECT TO LOCAL ORDINANCES

ALL WASH WATER (CONCRETE TRUCK, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN THESE MATERIALS AND STORM WATER THAT IS DISCHARGED FROM THE SITE.

ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY

CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES DITCHES AND DISPOSE OF PER LOCAL CODES ONCE THE SITE HAS BEEN STABILIZED. CONTRACTOR SHALL REFER TO THE GRADING PLAN FOR FINAL GRADES

LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY OVERNING AUTHORITIES

THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE SWPPP DURING CONSTRUCTION OPERATIONS

NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 14 DAYS OF FINAL GRADING.

SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED.

AFTER EVERY SIGNIFICANT RUNOFF PRODUCING RAINFALL EVENT OF 1/2" OR GREATER AND AT LEAST ONCE A WEEK:
A. INSPECT THE DETENTION BASIN SYSTEM FOR SEDIMENT ACCUMULATION, EROSION, TRASH ACCUMULATION, VEGETATED COVER, AND GENERAL CONDITION.
B. CHECK AND CLEAR THE OUTFALL DEVICE OF ANY OBSTRUCTIONS

THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.

GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.

ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.

IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.

EROSION DETAILS

D## Items labeled by the following symbols are shown on this sheet and referenced on detail sheets, which are included as part of this set of plans.

SD6/5 TEMPORARY CONSTRUCTION ENTRANCE

SD6/6 TEMPORARY GRAVEL CURB INLET

SD6/8 TEMPORARY SILT FENCE

EROSION PROPOSED FEATURES

BOUNDARY LINE
RIGHT OF WAY LINE
EASEMENT LINE
CONCRETE CURB AND GUTTER
FENCE
GUARD RAIL
RETAINING WALL
STORM DRAIN (SEE GRADING PLAN FOR SIZE)
8"SS SANITARY SEWER SERVICE
10"W WATER SERVICE
UGE UNDERGROUND ELECTRIC SERVICE
UGT UNDERGROUND TELEPHONE SERVICE
OHE OVERHEAD ELECTRIC SERVICE
OHT OVERHEAD TELEPHONE SERVICE
FO FIBER OPTIC CABLE SERVICE
GAS GAS SERVICE
LIMITS OF CONSTRUCTION LINE
SF TEMPORARY SILT FENCE
TEMPORARY DIVERSION SWALE
TEMPORARY ROCK CHECK DAMS
D# TEMPORARY INLET PROTECTION
DROP INLETS (SEE GRADING PLAN FOR TYPE)
SANITARY SEWER MANHOLE
FIRE HYDRANT WITH GUARD POSTS
UTILITY POLE
WATER LINE TEE, BEND, VALVE, AND PLUG

SEQUENCE OF CONSTRUCTION:

1. PULL ALL NECESSARY CITY PERMITS
2. CONSTRUCT TEMPORARY CONSTRUCTION EXIT AT LOCATION SHOWN ON THIS SHEET.
3. INSTALL PERIMETER SILT FENCES IN THE LOCATIONS SHOWN ON THIS SHEET.
4. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
5. LOCATE AND DISCONNECT ALL EXISTING UTILITIES
6. DEMO BUILDING
7. COMMENCE SITE GRADING.
8. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
9. RELOCATE EXISTING UTILITIES
10. INSTALL REMAINING EROSION CONTROL MEASURES AND STRUCTURES
11. PREPARE TEMPORARY PARKING AND STORAGE AREA.
12. GRADE REMAINDER OF SITE.
13. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES
14. TEMPORARY SEED DISTURBED AREAS
15. INSTALL UTILITIES, STORM SEWERS, CURBS AND GUTTERS
16. FINALIZE PAVEMENT SUB GRADE PREPARATION.
17. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
18. PAVE SITE
19. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
20. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES(ONLY IF SITE IS STABILIZED).
21. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
22. CARRY OUT FINAL GRADING AND SEEDING AND PLANTING. FINE GRADE AND INSTALL PERMANENT SEEDING AND PLANTINGS
23. REMOVE SILT FENCING ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABLIZED.
24. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS (THESE AREAS ARE TO BE PAVED LAST).

SEEDING SPECIFICATIONS FOR NORTHERN REGIONS

GENERAL
SEEDING CAN BE USED FOR TEMPORARY OR PERMANENT STABILIZATION. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVTY HAS CEASED FOR MORE THAN 14 DAYS(OR MORE FREQUENT IF REQUIRED BY THE STATE NPDES PERMIT) SHALL BE TEMPORARARILY SEEDED AND WATERED. AREAS WHERE FINAL GRADING HAS BEEN COMPLETED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY SEEDED. TEMPORARY SEED MIXTURES ARE SPECIFIED BELOW. PERMANENT SEED MIXTURES SHALL BE SEEDED DURING SEASON SPECIFIED.

SEEDING MIXTURES
[APPROPRIATE SEED MIXTURE IS TO BE SELECTED BY THE SITE DESIGN CONSULTANT. IF POSSIBLE CONSULT WITH LANDSCAPE ARCHITECT OR LOCAL NATURAL RESOURCE CONSERVATION SERVICE (NRCS) CONSERVATIONIST OR COUNTY EXTENSION AGENT FOR ASSISTANCE]

3:1 SLOPES OR FLATTER
APPLY 10-20-20 COMMERCIAL ORGANIC
FERTILIZER AT A RATE OF 435 LBS PER ACRE AND SEED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

TEMPORARY SEEDING

PLANTING DATES	SEED VARIETY	APPLICATION RATE
ALL YEAR	ANNUAL RYEGRASS	352 LBS/ACRE

PERMANENT SEEDING

PLANTING DATES	SEED VARIETY	APPLICATION RATE
SEPT. 15 - APRIL 15	PERENNIAL RYEGRASS	352 LBS/ACRE
SEPT 15 - JUNE 15	KENTUCKY BLUEGRASS	130 LBS/ACRE
ALL YEAR	TALL FESCUE	352 LBS/ACRE

MULCH SEEDED AREA WITH 2 TONS PER ACRE CLEAN GRAIN STRAW. ANCHOR STRAW WITH HYDRAULIC WOOD FIBER MULCH AT THE RATE OF 1000 LBS PER ACRE, OR 150-200 POUNDS OF ORGANIC MULCH TACKIFIER PER ACRE, OR USE NETTING, OR USE A MULCH ANCHORING TOOL.

SLOPES STEEPER THAN 3:1
HYDROSEED WITH GRASS SEED ON SLOPES GREATER THAN 3:1. SEEDING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER BED PREPARATION. HYDROSEED MIXTURE SHALL CONTAIN CELLULOSE MULCH APPLIED AT A RATE OF 2,000 LBS/ACRE, WITH A MAXIMUM OF 50 LBS/100 GAL OF WATER. IF SEEDING IS DELAYED AFTER MIXING 1/2 - 2 HOURS ADD AN ADDITIONAL 50% OF SEED MIX. IF DELAY IS LONGER THAN 2 HOURS, BEGIN WITH NEW MIXTURE. ALL SLOPES 2:1, OR GREATER, SHALL BE COVERED WITH "CURLEX" BLANKETS. SEE SPECIFICATIONS FOR SEED ESTABLISHMENT REQUIREMENTS, OTHERWISE
MULCH SEEDED AREA WITH 2 TONS PER ACRE CLEAN GRAIN STRAW. ANCHOR STRAW WITH HYDRAULIC WOOD FIBER MULCH AT THE RATE OF 1000 LBS PER ACRE, OR 150-200 POUNDS OF ORGANIC MULCH TACKIFIER PER ACRE, OR USE NETTING.

SEED BED PREPARATION (PERMENTENT SEEDING)
SURFACE WATER CONTROL MEASURES SHALL BE IN PLACE. AREA TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL. TOTAL SEEDBED PREPARED DEPTH SHOULD BE AT LEAST 4 INCHES. LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS NEED TO BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH THE ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION SHOULD BE AT FINISH GRADE AND BE REASONABLY SMOOTH AND UNIFORM.

IF NO SOIL TEST IS TAKEN, FERTILIZER AND LIME SHOULD BE ACCORDING TO SEEDING SPECIFICATIONS. IF SOIL TEST IS TAKEN, APPLY FERTILIZER AND LIME ACCORDING TO SOIL TEST REPORT. FERTILIZER AND LIME SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION. WEIGHTS, SEED SPECIES AND PERCENTAGE OF PURITY AND GERMINIATION MUST BE CHECKED PRIOR TO SEEDING.

SEEDING SHALL BE ACCOMPLISHED IN TWO DIRECTIONS AND AT RIGHT ANGLES TO EACH OTHER. LAWN AREAS SHALL BE SEEDED AT THE RATE INDICATED ON THE DRAWINGS BY SOWING EVENLY WITH AN APPROVED MECHANICAL CULTI-PACKER SEEDER TO COVER THE SEED AND FORM THE SEEDBED IN ONE OPERATION. IF BROADCAST SEEDER IS USED THE SEEDING RATE SHALL BE TWO (2) TIMES THE DRILL RATE. IN INACCESSIBLE AREAS, THE SEED SHALL BE LIGHTLY RAKED WITH FLEXIBLE RAKES AND ROLLED WITH A WATER BALAST ROLLER. AFTER ROLLING SEEDED AREAS ARE TO BE MULCHED ACCORDING TO SPECIFICATION. IF HYDROSEED OPERATION IS USED, SEEDING RATE SHALL BE FIVE (5) TIMES THE DRILL RATE INDICATED ON THE DRAWINGS.

IF SEEDING CAN NOT BE ACCOMPLISHED DUE TO SEASONAL CONSTRAINTS, APPLY STRAW MULCH AND TACKIFIER TO ALL SLOPES AND DISTURBED AREAS UNTIL PERMANENT SEEDING IS ALLOWED. IN THE EVENT SEEDING OCCURS OUT OF SEASON, MAINTENANCE SHALL OCCUR AND CONTINUE INTO THE FOLLOWING GROWING SEASON OR UNTIL A UNIFORM STAND OF THE SPECIFIED PERMANENT GRASSES HAVE BEEN ESTABLISHED AND THE SITE HAS REACHED 85% STABILIZATION. PERMANENT AND TEMPORARY SEEDING SHALL BE ACCOMPLISHED THROUGHOUT THE CONSTRUCTION PROCESS.

INSPECTION
INSPECT SEEDED AREAS FREQUENTLY. IF SEEDED AREAS FAIL TO GERMINATE, OR TO PROVIDE ADEQUATE GROUND COVERAGE, THE AREA SHALL BE RE-SEEDED UNTIL FINAL STABILIZATION IS ACHIEVED. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT MINIMUM EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS OF A RAINFALL EVENT OF GREATER THAN .5 INCHES OF RAIN DURING A 24-HOUR PERIOD (OR MORE FREQUENTLY IF REQUIRED BY THE STATE NPDES GENERAL PERMIT) THROUGHOUT CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED OR MORE FREQUENTLY IF REQUIRED BY STATE NPDES GENERAL PERMIT.

DATE	REV	DESCRIPTION
3-29-07		REVISED PER JASON JANTZ COMMENTS 3-26-07
5-17-07	2	REVISED PER SCOTT LINDEBAK COMMENTS 5-11-07
6-11-07	3	CITY SUBMITTAL FOR PERMIT

SCOTT P. McGEE LICENSED 18647 PROFESSIONAL ENGINEER KANSAS
6/15/07

FOR PAVEMENT SECTIONS SEE DETAIL SHEET SD1 AND REFER TO GEOTECHNICAL REPORT PREPARED BY KLEINFELDERS, JANUARY 15, 2007
*CONSULT WITH MCDONALDS PROJECT MANAGER FOR ALTERNATE SECTIONS

Civil Engineering Inc.
Corp. Office: 1008 N.W. "J" St. Ste. "C", Bentonville, AR 72712
(479) 464.8850 (V) / (479) 464.9040 (F)
Regional Office: 11285 Strang Line, Rd. Lenexa, KS66215
(913) 310.0470 (V) / (913) 310.0261 (F)

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OFFICE	KANSAS CITY
ADDRESS	10801 MASTIN BLVD, STE. 400, OVERLAND PARK, KS66210

STREET ADDRESS	
1421 N WEST STREET	
CITY: WICHITA	STATE: KANSAS
COUNTY: SEDGEWICK	
REGIONAL DWG. NO 15-0276	
EROSION CONTROL PLAN	

STATUS	DATE	BY
PRELIMINARY	--/--/--	-
PLAN CHECKED	--/--/--	-
AS-BUILT	--/--/--	-
PROJECT NO.	06-0716	

C-5