

**GRADING NOTES:**

- ANY EARTHWORK REQUIRED FOR THIS CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS, GEOTECHNICAL INVESTIGATION FOR THE SITE AND THE CITY STANDARDS AND SPECIFICATIONS.
- IF THE SUBGRADE SHOULD BECOME FROZEN, DESICCATED, SATURATED, OR DISTURBED, THE AFFECTED MATERIAL SHOULD BE REMOVED OR THESE MATERIALS SHOULD BE SCARIFIED, MOISTURE CONDITIONED, AND RECOMPACTED PRIOR TO FOUNDATION, FLOOR SLAB AND PAVEMENT CONSTRUCTION.
- FILL SHOULD BE PLACED AND COMPACTED IN HORIZONTAL (6-8") LIFTS, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOISTURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. REFER TO GEOTECHNICAL RECOMMENDATIONS FOR COMPACTION REQUIREMENTS.
- NO RUBBLE OR DEBRIS INCLUDING TIMBER, CONCRETE RUBBLE, TREES, BRUSH, AND ASPHALT SHALL BE PLACED IN THE BACKFILL UNDER ANY OF THE PROPOSED BUILDINGS, STREETS, CURB & GUTTER, SIDEWALK, DRAINAGE STRUCTURES, WITHIN FIVE (5) FEET OF A BUILDING FOOTPRINT OR BE IN THE PLACEMENT OF ANY UNCLASSIFIED FILL. PROPERLY GRADED RUBBLE MAY BE USED IN SOME LOCATIONS AS SPECIFIED AND VERIFIED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND HAULING OF SUCH MATERIALS TO A SUITABLE SPOIL AREA.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, MAINTENANCE AND OPERATION OF ANY REQUIRED DEWATERING SYSTEM. THE CONTRACTOR SHALL PERFORM SUCH INDEPENDENT INVESTIGATION AS DEEMED NECESSARY TO DETERMINE THE SUBSURFACE GROUNDWATER CONDITIONS AND UNSTABLE SOIL CONDITIONS TO BE ENCOUNTERED THROUGHOUT THE CONSTRUCTION.
- IMMEDIATELY PUMP OR BAIL OUT WATER FOUND IN EXCAVATIONS, WHETHER RAIN OR SEEPAGE. EXCAVATIONS MUST BE KEPT FREE FROM WATER AT ALL TIMES. TAKE ALL MEASURES AND FURNISH ALL EQUIPMENT AND LABOR NECESSARY TO CONTROL THE FLOW, DRAINAGE AND ACCUMULATION OF WATER AS REQUIRED TO PERMIT COMPLETION OF THE WORK AND TO AVOID DAMAGE TO THE WORK.
- WHEN FREEZING TEMPERATURES MAY BE EXPECTED, DO NOT EXCAVATE TO THE FULL DEPTH INDICATED UNLESS THE FOOTING OR SLABS ARE TO BE POURED IMMEDIATELY AFTER THE EXCAVATION HAS BEEN COMPLETED. IF PLACING OF CONCRETE IS DELAYED, PROTECT THE BOTTOMS OF EXCAVATIONS FROM FROST UNTIL CONCRETE IS PLACED.
- NO FILL MATERIAL SHALL BE PLACED, SPREAD OR ROLLED WHILE IT IS FROZEN OR THAWING OR DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IN PROGRESS IS INTERRUPTED BY HEAVY RAIN, FILL OPERATIONS SHALL NOT BE RESUMED UNTIL THE GEOTECHNICAL ENGINEER INDICATES THAT THE MOISTURE CONTENT AND DENSITY OF THE PREVIOUSLY PLACED FILL ARE AS SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ADEQUATE SHORING AND/OR BRACING NECESSARY TO FACILITATE THE EXCAVATION ASSOCIATED WITH THE CONSTRUCTION OF THE WALLS, PIPELINES AND FOUNDATIONS. THE BRACING AND/OR SHORING OF EXCAVATED WALLS OR TRENCHES SHALL BE IN COMPLIANCE WITH OSHA REGULATIONS AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. THE COST OF SHORING AND/OR BRACING SHALL BE INCLUDED IN THE COST OF THE SPECIFIC CONSTRUCTION ITEM REQUIRING THE SHORING AND/OR BRACING.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO BIDDING TO VERIFY SITE CONDITIONS.
- BUILDING CONTRACTOR(S) WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- SIDEWALK SLOPES SHALL NOT EXCEED 2.0% MAXIMUM CROSS SLOPES AND 5.0% MAXIMUM LONGITUDINAL SLOPES, UNLESS OTHERWISE NOTED. THE SLOPE IN THE HANDICAP PARKING SPACES AND ASSOCIATED STRIPED ISLAND SHALL NOT EXCEED 2.0%.
- THE CONTRACTOR SHALL FOLLOW ANY GEOTECHNICAL RECOMMENDATIONS FOR PAVEMENT DESIGN AND RECOMMENDATIONS REGARDING EXCAVATION, COMPACTION, MATERIALS, EMBANKMENT, PAVEMENT SUBEXCAVATION, MOISTURE CONTROL, AND TOPSOIL REMOVAL AND REPLACEMENT. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF DISCREPANCIES BETWEEN THE SITE IMPROVEMENTS PLANS AND THE GEOTECHNICAL RECOMMENDATIONS.

**NOTES:**

FINAL ON-SITE GRADING/ PONDS / SWALES WILL BE DESIGNED AS PART OF THE DRB AND BUILDING PERMIT SET.

FINAL CURB CUTS TO BE PLACE AND COORDINATE ON LANDSCAPE AND GRADING AND DRAINAGE PLAN AS PART OF THE DRB AND BUILDING PERMIT SET.

**FLOOD ZONE MAP:**  
 ZONE X - FEMA - 35001C0104H



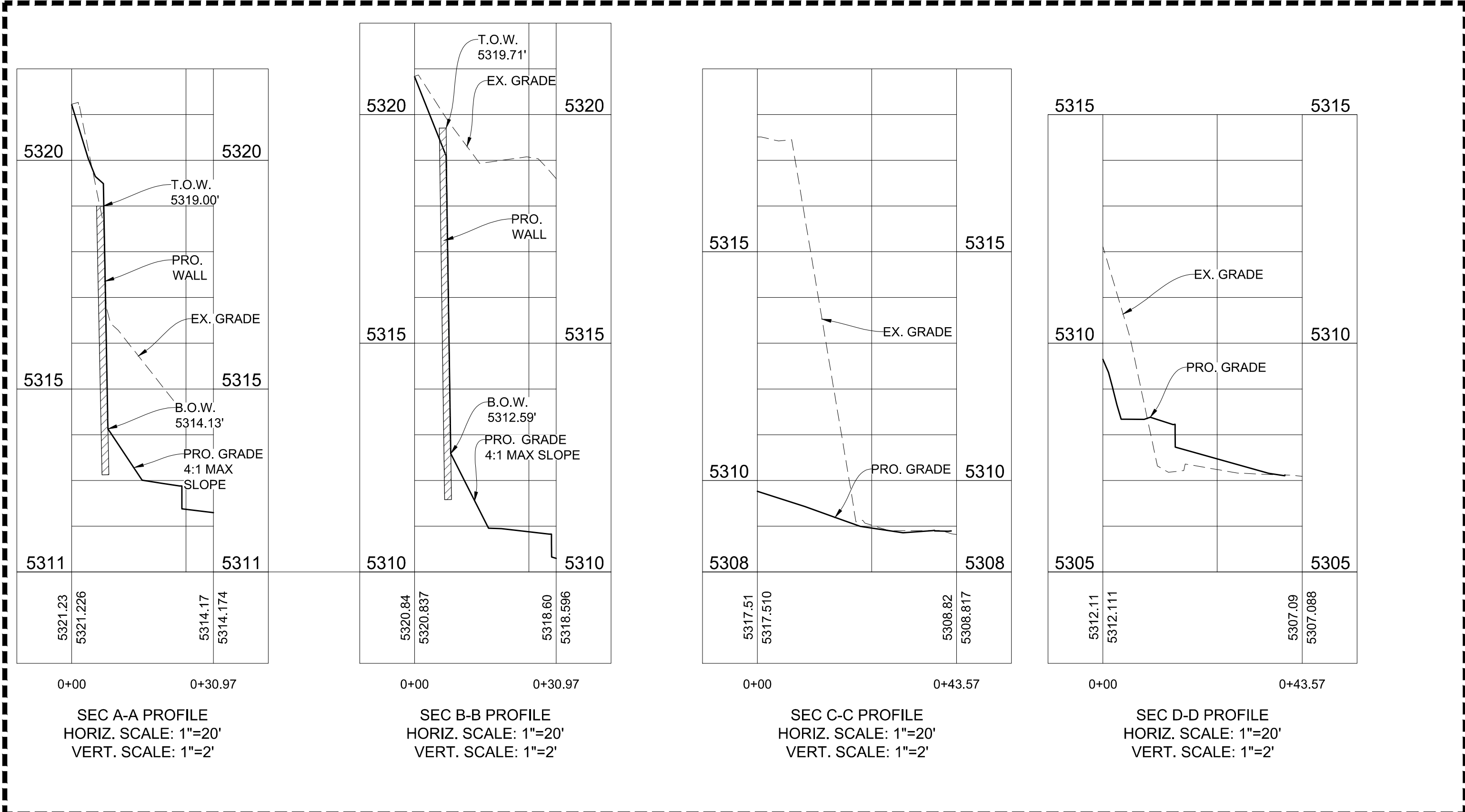
**DRAINAGE NARRATIVE:**

DRAINAGE TO CONFORM TO ORIGINAL MCMAHON MARKETPLACE (2007). LANDSCAPE AREAS TO BE INSTALLED WITH SURFACE LOWER TO RECEIVE RUNOFF VIA CURB NOTCHES / CUTS.

STORMWATER CONTROL MEASURES ARE TO PROVIDE MANAGEMENT OF "FIRST FLUSH" - 90% STORM EVENT. THIS IS 0.34" (0.44" MINUS 0.1" ABSTRACTION)

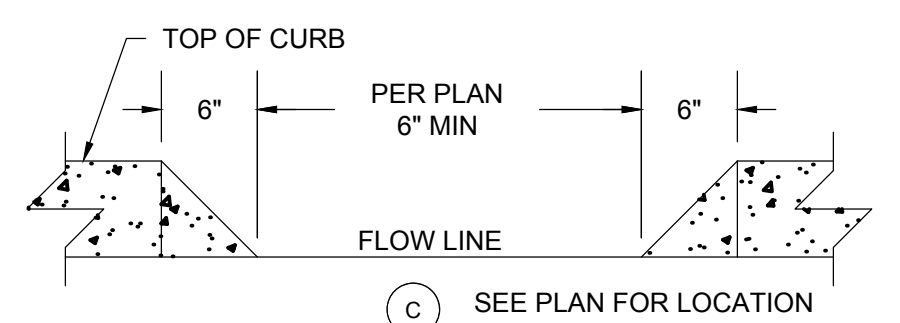
THE REQUIRED PONDING VOLUME IS 0.34" X TYPE 'D' AREA: 0.34/12 X 1.144C X 71% LAND TREATMENT 'D' X 43560 = 998 C.F.

FIRST FLUSH WILL BE TREATED AND DETAINED THROUGHOUT THE LANDSCAPE ISLANDS ON SITE. FINAL DETAILED DESIGN FOR DRAINAGE TO BE COMPLETED WITH DRB CIVIL ENG PLANS.



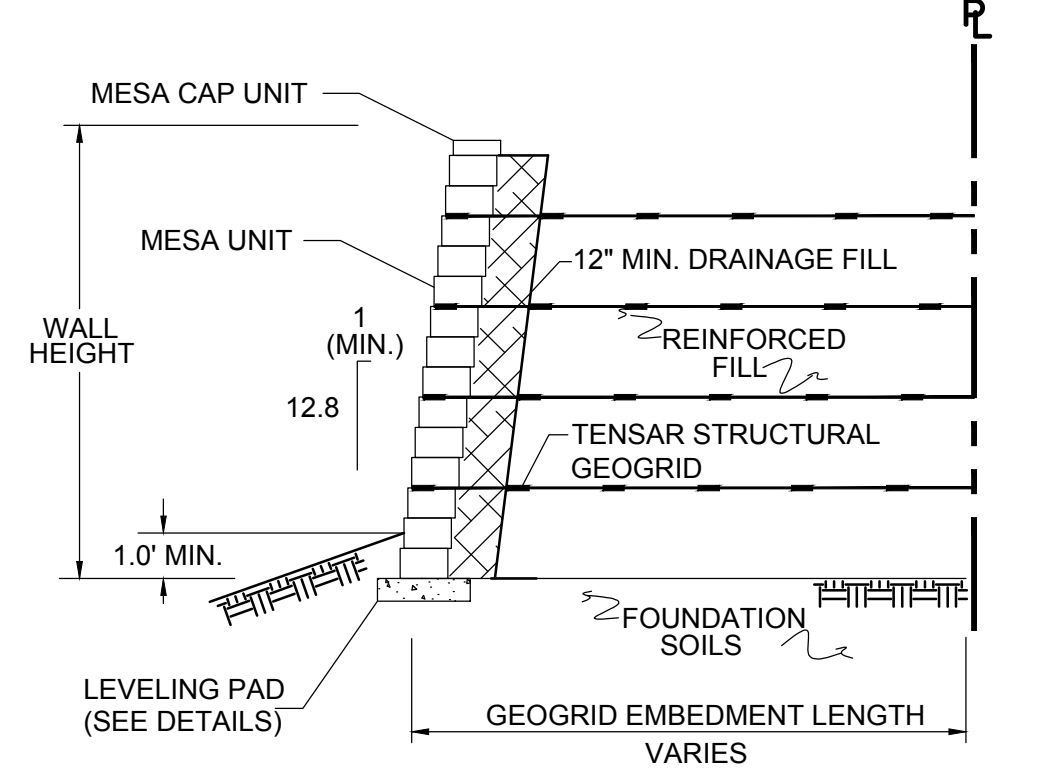
**GRADING LEGEND**

SLOPE	XXX
MAJOR CONTOUR	5420
MINOR CONTOUR	5421
SPOT ELEVATION	11.03



- NOTES:**
- 4500 PSI CONCRETE WITH FIBERMESH REINFORCEMENT.
  - BRUSHED FINISH ON ALL EXPOSED CONCRETE.

**CURB CUT  
N.T.S.**



**TYPICAL TIERED CROSS-SECTION  
NOT TO SCALE**  
 NOTE: FINAL WALL COLOR & STYLE TO MATCH EXISTING

**HCI ENGINEERING**  
 A DIVISION OF  
**HABERER CARPENTRY INC.**

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12134.230  
 △EPC 1ST SUB 03.30.16  
 △EPC 2ND SUB 05.02.16  
 △DRB 1ST SUB 10.03.16

CONTRACT DATE: APRIL 24, 2016  
 BUILDING TYPE: EXPLORER MED54  
 PLAN VERSION: ARRIL 2015 (N)  
 SITE NUMBER:  
 STORE NUMBER:

**TACO BELL**  
 UNSER BLVD  
 ALBUQUERQUE, NM 87114



**GRADING & DRAINAGE PLAN**

**C2.0**