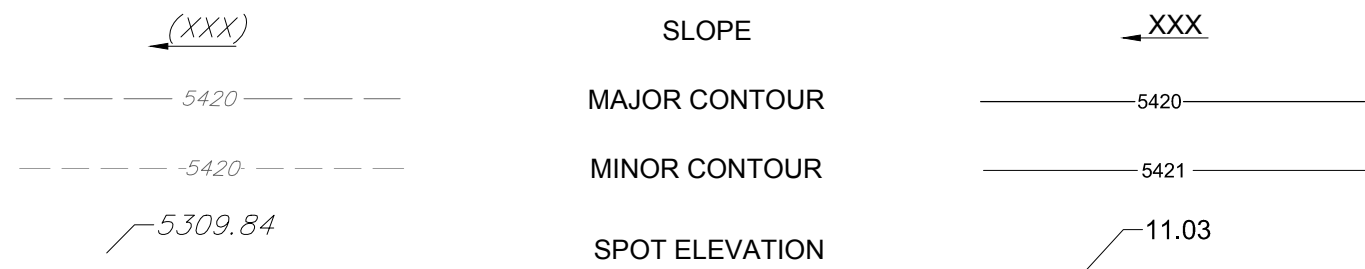


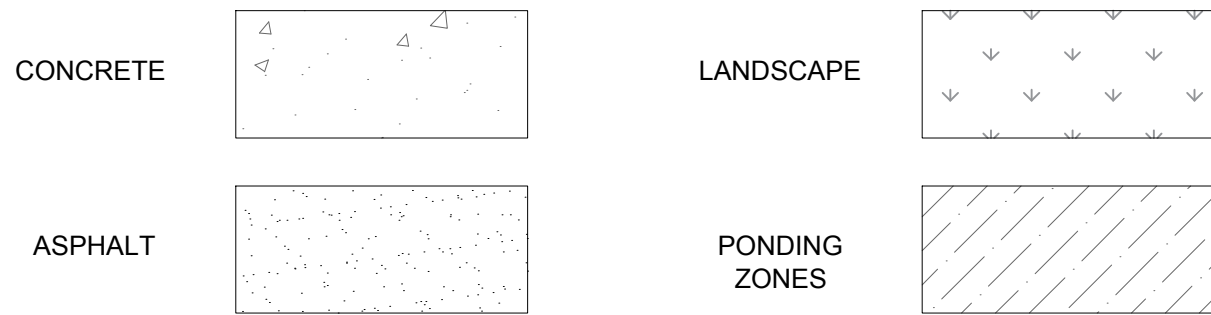
SITE LEGEND

PROPERTY LINE

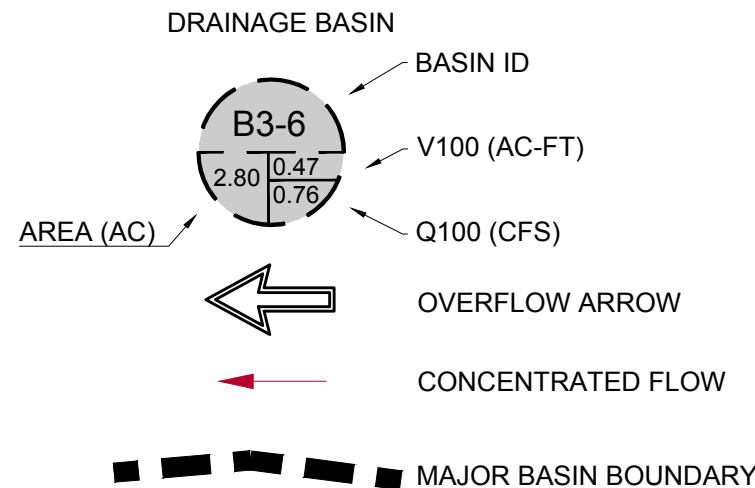
GRADING LEGEND



HATCHING LEGEND

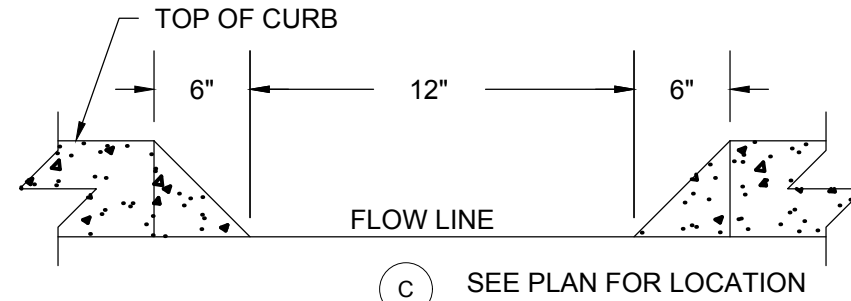


DRAINAGE LEGEND



KEY NOTES - EASEMENTS:

- E1. EXISTING 10' WIDE UNDERGROUND PUBLIC UTILITY EASEMENT (12/09/2015, 2015-106404)
- E2. EXISTING 41' PRIVATE ACCESS AND DRAINAGE EASEMENT AND PUBLIC UTILITY EASEMENT (02/19/2015, 2015C-14)
- E3. EXISTING 10' PUBLIC SIDEWALK AND TRAIL EASEMENT (04/17/2015, 2015C-35)
- E4. EXISTING 10' PUBLIC UTILITY EASEMENT (05/13/1996, 96C-195) AND (05/28/1992, BCR 92-12, 3974)



NOTES:

- 1. 4500 PSI CONCRETE WITH FIBERMESH REINFORCEMENT.
- 2. BRUSHED FINISH ON ALL EXPOSED CONCRETE.

CURB CUT  
N.T.S.

BENCHMARK:

ELEVATION DATUM IS BASED ON NAVD 1988 FROM AGRS MONUMENT "3\_H10",  
PUBLISHED ELEVATION (FEET) = 5196.151

GRADING NOTES:

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE SITE PRIOR TO BIDDING TO VERIFY SITE CONDITIONS.
- 11. BUILDING CONTRACTOR(S) WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 12. 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%.
- 13. THE CONTRACTOR SHALL FOLLOW ANY GEOTECHNICAL RECOMMENDATIONS FOR PAVEMENT DESIGN AND RECOMMENDATIONS REGARDING EXCAVATION, COMPACTION, MATERIALS, EMBANKMENT, PAVEMENT SUBEXCAVATION, MOISUTRE CONTROL, AND TOPSOIL REMOVAL AND REPLACEMENT. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF DISCREPANCIES BETWEEN THE SITE IMPROVEMENTS PLANS AND THE GEOTECHNICAL RECOMMENDATIONS.

DRAINAGE NARRATIVE:

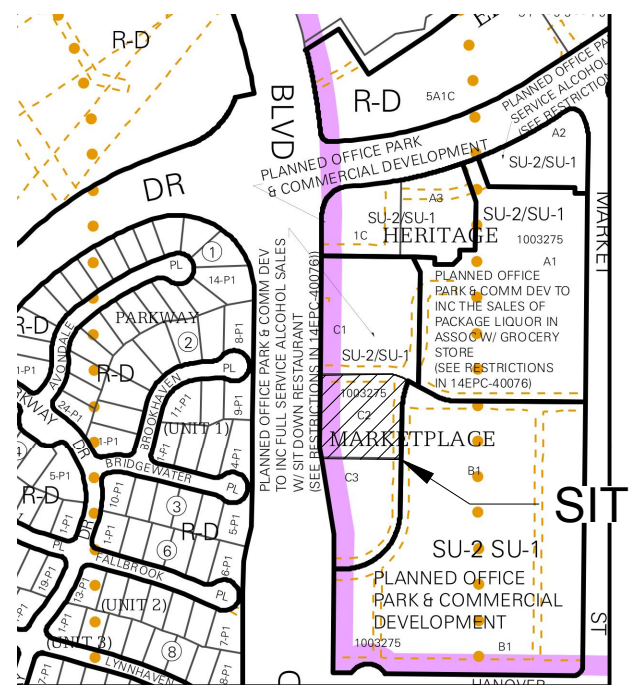
DRAINAGE TO CONFORM TO ORIGINAL HERITAGE MARKETPLACE. LANDSCAPE AREAS TO BE INSTALLED WITH SURFACE LOWER TO RECEIVE RUNOFF VIA CURB NOTCHES / CUTS.

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 71% LAND TREATMENT 'D' X 47,030 = 975 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.

AVERAGE EXISTING GRADES SLOPE AT 3% FROM NORTHWEST TO SOUTHEAST. PROPOSED GRADING WILL SLOPE AT ROUGHLY THE SAME SLOPE IN THE SAME DIRECTION. FLOWS WILL BE SHED TO THE EAST TO THE SITE ACCESS POINTS, THEN SOUTH OF THE SITE.



VOLUME SUMMARY TABLE	
POND 1 CUMULATIVE VOL.	3702 CF
POND 2 CUMULATIVE VOL.	2543 CF
TOTAL DETENTION VOL.	6245 CF
POND 1 FIRST FLUSH VOL.	318 CF
POND 2 FIRST FLUSH VOL.	281 CF
WQ BASIN 1 FIRST FLUSH VOL.	149 CF
WQ BASIN 2 FIRST FLUSH VOL.	92 CF
TOTAL FIRST FLUSH VOL.	840 CF
TOTAL REQ'D FIRST FLUSH VOL.	785 CF
RELEASE RATE SUMMARY	
POND 1 RELEASE RATE	0.94 CFS
POND 2 RELEASE RATE	0.76 CFS
UNDETAINED RELEASE RATE	0.32 CFS
TOTAL RELEASE RATE	2.02 CFS
ALLOWABLE RELEASE RATE	2.1 CFS

HCI ENGINEERING  
A DIVISION OF  
HABER CARPENTRY INC.  
801 BOULEVARD, SUITE 400  
LITTLETON, CO 80120  
TEL: (303) 285-5446  
INFO@HABERGROUP.COM

MARK D. MCCLUGGAGE AIA, CCS  
3734 OSAGE STREET, SUITE 400  
LITTLETON, CO 80120  
TEL: (303) 285-5446  
WWW.GIMV.COM



VERTEX

Main: 303.623.9116 | Direct: 720.545.0459  
3734 Osage Street | Denver, CO 80211  
CONTACT: LANCE VANDEMARK, P.E.

12134.240

△ EPC 1ST SUB 09.28.16  
△ EPC 2ND SUB 10.31.16  
△ DRB 1ST SUB 03.02.17

CONTRACT DATE: JUNE 07, 2016  
BUILDING TYPE: EXP. LITE MED40  
PLAN VERSION: SEPTEMBER 2015  
SITE NUMBER:  
STORE NUMBER:

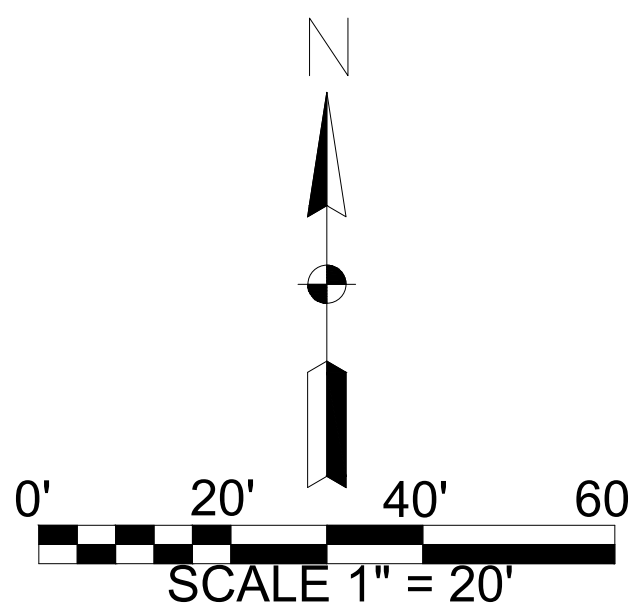
TACO BELL

UNSER BLVD NW & LADERA  
ALBUQUERQUE, NM 87114



EXPLORER LITE  
MEDIUM40

GRADING AND  
DRAINAGE PLAN



C2.1