



LOWE'S
 HOME IMPROVEMENT WAREHOUSE
 116K PROTOTYPE (161,662 SF.)
 FINISH FLOOR: 62.75

GRADING/DRAINAGE CONSTRUCTION NOTES

1. CONSTRUCT COMMERCIAL DRIVEWAY WITH 8" WIDE VALLEY GUTTER PER SUMMERLIN STD. DWGS 5-64 & 5-58.
2. CONSTRUCT "L" TYPE CURB PER SUMMERLIN STD DWG 5-47.
3. CONSTRUCT 3'-0" WIDE CONCRETE SIDEWALK GUTTER. SEE DETAIL 3, SHEET C-12.
4. CONSTRUCT 4" THICK CONCRETE SIDEWALK PER SUMMERLIN STD DWG 5-72. SEE LANDSCAPE PLANS FOR EXACT LOCATIONS, COLOR, FINISH, QUALITY, AND DETAILS. SEE LANDSCAPE PLANS FOR SIDEWALK TREATMENT ADJACENT TO PARKING SPACES.
5. CONSTRUCT 4" AC OVER 7" TYPE II AGGREGATE BASE. SEE DETAIL 1, SHEET C-11. SEE SOILS REPORT FOR MORE INFORMATION.
6. CONSTRUCT 3" AC OVER 6" TYPE II AGGREGATE BASE PER DETAIL 2, SHEET C-11. SEE SOILS REPORT FOR MORE INFORMATION.
7. CONSTRUCT MODIFIED 6" "A" CURB PER DETAIL 1, SHEET C-12.
8. 0'-6" CURB TRANSITION.
9. CONSTRUCT 4" THICK MOTORCYCLE PARKING PAD. SEE DETAIL 3, SHEET C-11.
10. CONSTRUCT CONCRETE DRAINAGE CHANNEL. SEE DETAIL 4, SHEET C-11.
11. INSTALL HANDICAP SIGNAGE PER DETAILS 13, SHEET C-12.
12. INSTALL RIP RAP. 3'-6" DEEP, 6" LONG, 4" WIDE.
13. INSTALL 12" CLEANOUT, PER DETAIL 12 SHEET C-12.
14. CONSTRUCT SIDEWALK RAMP PER DETAIL 2 SHEET C-12.
15. MATCH EXISTING CURB GUTTER AND SIDEWALK.
16. CONSTRUCT LANDSCAPE CURB PLANTER ISLAND PER DETAIL 4 SHEET C-12.
17. SEE SHEET C-7 FOR CURB PROFILES AND VERTICAL CURVE INFORMATION.
18. CONSTRUCT CMU BLOCK SCREEN WALL MAXIMUM 3' HIGH. SEE SHEET C-9 FOR ELEVATION AND DETAILS.
19. DEMOLISH AND REMOVE EXISTING CONCRETE VALLEY GUTTER.
20. INSTALL 10" C-900 STORM DRAIN PIPE AND CONNECT TO TRENCH DRAIN.
21. CONSTRUCT 12" HIGH SCREEN WALL. SEE SHEET C-8 FOR ELEVATION AND DETAILS. SEE DETAIL 7 SHEET C-12 FOR CONCRETE PAVEMENT SECTION.
22. SEE DETAIL 6 SHEET C-11 FOR CART STORAGE DETAIL.
23. INSTALL 10" ROOF DRAIN LEADER @ MIN. SL=2.0%. SEE ARCHITECTURAL PLAN FOR OVERFLOW ROOF DRAIN LEADER AT BUILDING FACE.
24. CONSTRUCT CONCRETE FILLED STEEL BOLLARD. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND CONSTRUCTION DETAILS.
25. CONSTRUCT PARSONS ROCK RETAINING WALL PER WEST PARSONS WALL DETAIL SHEET C-7.
26. CONSTRUCT PARSONS ROCK RETAINING WALL PER NORTH PARSONS WALL DETAIL SHEET C-7.
27. CONSTRUCT PARSONS ROCK RETAINING WALL PER NORTH EAST PARSONS WALL DETAIL SHEET C-7.
28. CONSTRUCT PARSONS ROCK RETAINING WALL PER SOUTH EAST PARSONS WALL DETAIL SHEET C-7.
29. CONSTRUCT TYPE I MANHOLE OVER EXISTING 30" STORM DRAIN PIPE. MATCH EXISTING INVERT ELEVATION.
30. CONSTRUCT A.D.A. ISLAND WALKWAY. SEE DETAIL 5 SHEET C-11.
31. CONSTRUCT CONCRETE WHEEL STOP PER DETAIL 6, SHEET C-12.

STORM DRAIN SUMMARY TABLE
 PROPOSED STORM DRAIN TO BE PRIVATELY OWNED AND MAINTAINED

TOTAL LENGTH OF PIPE	1830 LF.
TOTAL NUMBER OF INLETS	5
TOTAL NUMBER OF MANHOLES	6
TOTAL AMOUNT OF RIP RAP AREA	24 S.F.

STORM DRAIN MANHOLE DATA

SDMH-1 48" TYPE I RM=50.0 IE IN(W):39.30 IE IN(N):39.30 EXT. IE OUT(E):39.10	SDMH-2 48" TYPE I RM=52.2 IE IN(W):48.36 IE OUT(E):48.16	SDMH-3 48" TYPE I RM=51.2 IE IN(N):52.56 IE OUT(E):52.36
SDMH-4 48" TYPE I RM=62.3 IE IN(N):55.88 IE OUT(S):55.68	SDMH-5 48" TYPE I RM=54.0 IE OUT(S):59.00	SDMH-6 48" TYPE I RM=50.50 IE IN(N):47.90 IE OUT(S):47.70

STORM DRAIN INLET DATA

SDCI-1 TYPE: JENSEN PRECAST NEENAH 2436 GRATE (L=6") RM=61.67 IE OUT(E):56.67 INSTALL 32LF 15"SD @ SL=5.0%	SDCI-2 TYPE: JENSEN PRECAST NEENAH 2436 GRATE (L=6") RM=62.07 IE OUT(S):58.57 INSTALL 32LF 15"SD @ SL=1.91%	SDCI-3 TYPE: JENSEN PRECAST NEENAH 2436 GRATE (L=6") RM=61.41 IE OUT(S):57.28 INSTALL 20LF 12"SD @ SL=8.00%	SDCI-4 TYPE: JENSEN PRECAST NEENAH 2436 GRATE (L=15") RM=50.50 IE OUT(S):41.50 INSTALL 17LF 24"SD @ SL=9.40%	SDCI-5 TYPE: JENSEN PRECAST NEENAH 2436 GRATE (L=6") RM=53.77 IE OUT(S):50.07
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BENCHMARK

CITY OF LAS VEGAS BENCHMARK OL09 3655W6
 RIVET & PLATE IN TOP OF CURB AT NE CORNER
 OF FAMILION CENTER & PARK RUN
 SUMMERLIN DATUM ELEVATION = 3014.06 FT.
 NAVD 88 ELEVATION = 919.9832 METERS, 3018.31 FT. - USED HEREON.
 REVISED CLV BENCHMARK OL09 3655W6 = 3018.31 FT. ESTABLISHED JUNE 21, 2002

DRAINAGE CERTIFICATION

I CERTIFY THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED
 DRAINAGE STUDY ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT.
 Benjamin C. Smith 8141 10/31/04
 BENJAMIN C. SMITH P.E. NO. DATE

Call before you Dig
 1-800-227-2600
 UNDERGROUND SERVICE (USA)

NORTH
 SCALE 1"=40'

CALL BEFORE YOU DO OVERHEAD
 1-702-593-6111
 107V3829

LOWE'S
 150 FARMWAY AVE., SUITE 140 CARLSBAD, CA 92008
 (760) 602-1018 (F)

REVISIONS

NO.	DATE	DESCRIPTION
1	10/27/04	ISSUE SET
2	11/17/04	REVISION

ENGINEER
 BENJAMIN C. SMITH
 11/17/04
 CIVIL
 NO. 8141

G.C. WALLACE, INC.
 ENGINEERS/PLANNERS/SURVEYORS
 1500 SOUTH RAINBOW BLVD. LAS VEGAS, NEVADA 89104
 TELEPHONE: (702) 804-2600 FAX: (702) 804-2299

LOWE'S
 ENGINEERING AND
 CONSTRUCTION
 1530 PARADISE AVE., #140 CARLSBAD, CA 92008
 (760) 602-1018 (F)

GRADING/DRAINAGE PLAN
 LOWE'S
 WEST SUMMERLIN
 LAS VEGAS (CLARK COUNTY), NEVADA
 PROJECT NO. 07-0013 (DRAWN BY: SP) (CHECKED BY: BCB)

PERMIT SET
 ISSUE DATE: 10.9.03
 CONSTRUCTION SET
 SET/ISSUE DATE: 10.9.03
 DRAWING NUMBER:
C-6
 SHEET 6 OF 13

REVISION APPROVED
 SUMMERLIN Non-Residential Design Review
 21X 04

FOR REVISION, SEE SHEET 12A

THIS SIGNATURE IS LIMITED TO APPROVAL OF THESE DOCUMENTS FOR CONFORMANCE TO THE DESIGN INTENT OF THE APPLICABLE SUMMERLIN DESIGN CRITERIA. NEITHER SUMMERLIN NOR THE SUMMERLIN DESIGN REVIEW COMMITTEE ASSUMES RESPONSIBILITY FOR PLAN CONFORMANCE WITH APPLICABLE LAWS, ORDINANCES AND CODES.