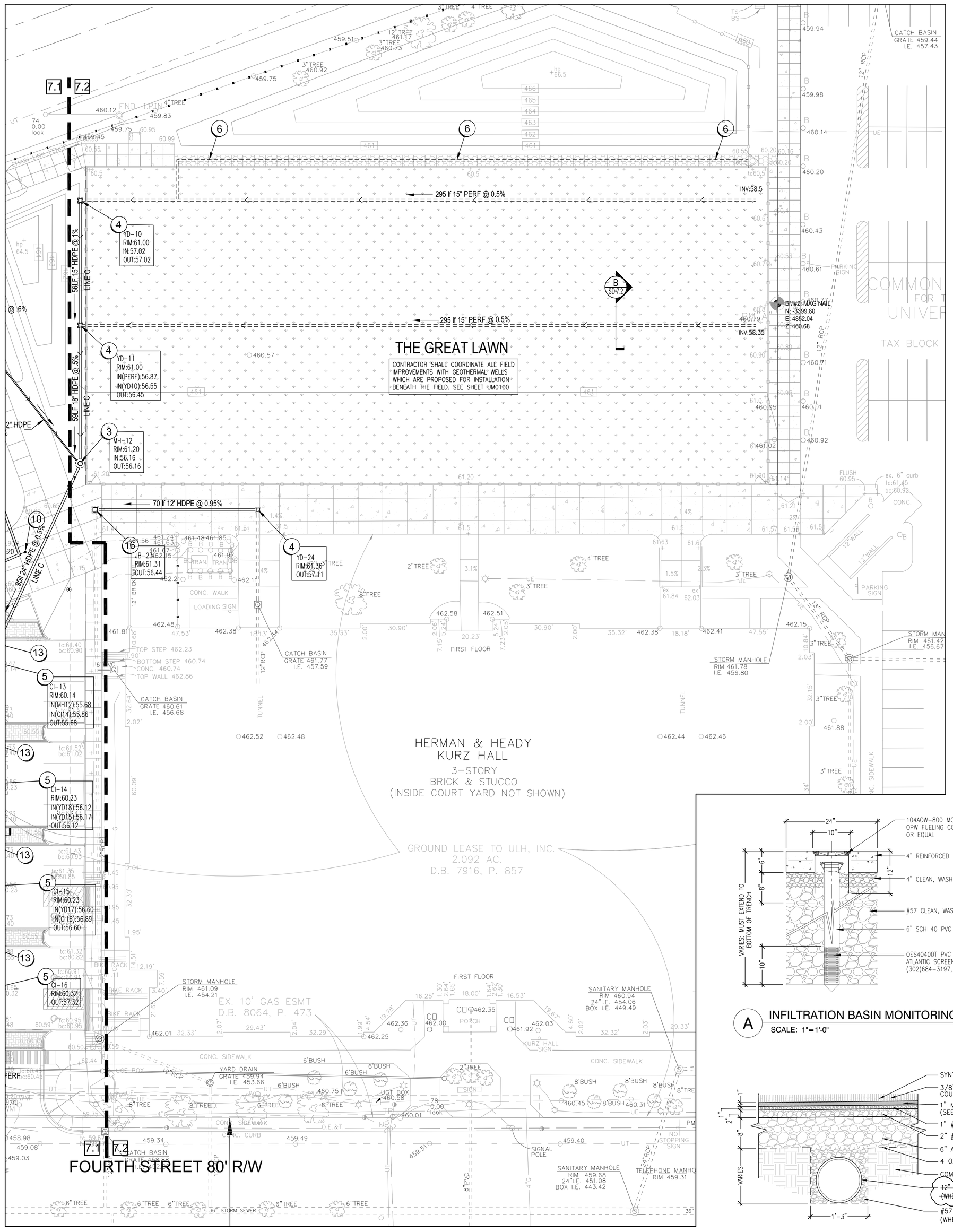


DRAINAGE PLAN

SCALE: 1"=20'-0"

0 10 20 40

GRADING & DRAINAGE NOTES

1. ALL SPOT ELEVATIONS INDICATE FINISH GRADE OF SURFACE. ADJUSTMENTS MUST BE MADE TO ESTABLISH GRADES OF SUB-BASE OR SUBGRADE. SPOT ELEVATIONS ARE INCLUSIVE OF ANY LANDSCAPE MULCH REQUIRED.
2. PRIOR TO CONSTRUCTION OR DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE. FINISHED REPAIRS OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
3. ALL EXCESS EXCAVATED MATERIAL OTHER THAN TOPSOIL IS TO BE REMOVED FROM THE SITE.
4. UNLESS OTHERWISE NOTED, ALL TREES AND VEGETATION SHALL BE PROTECTED DURING CONSTRUCTION. ALL VEGETATION, ROOTS, TREES, ETC. TO BE REMOVED SHALL BE REMOVED TO A MINIMUM DEPTH OF THREE FEET BELOW FINISHED GRADE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE FOLIAGE, BRANCHES OR ROOTS OF EXISTING TREES TO BE SAVED. NO BURNING ON SITE.
5. BEFORE STARTING SITE EXCAVATION, CONTRACTOR SHALL STRIP ANY TOPSOIL FROM DEVELOPED PORTIONS OF THE SITE AND STORE IN A LOCATION THAT WILL NOT INTERFERE WITH SITE DEVELOPMENT OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR REDISTRIBUTING TOPSOIL IN ALL FINISHED GRADE AREAS, BACK FILLING CURBS, SIDEWALKS, ETC. TOPSOIL SHALL NOT BE DISTRIBUTED WHEN WET OR OVER COMPACTED.
6. CONTRACTOR SHALL PROVIDE ENGINEER WITH COMPACTION TESTING FROM AN INDEPENDENT TESTING AGENCY.
7. ELEVATIONS AND CONTOURS ON THIS PLAN ARE REFERENCED TO MEAN SEA LEVEL DATUM.
8. MINIMUM 12" CRUSHED STONE BACKFILL OVER STORM PIPING. STORM PIPING UNDER PAVED SURFACES TO BE BACKFILLED FULL DEPTH WITH CRUSHED STONE.
9. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY IF ROCK EXCAVATION FOR MASS GRADING OR TRENCHING IS REQUIRED. ALL EXCAVATION IS UNCLASSIFIED. THERE WILL BE NO PAYMENT FOR ROCK EXCAVATION.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXCAVATION QUANTITIES.
11. IT IS THE DESIGN INTENT FOR ALL WATER TO BE DIRECTED AWAY FROM THE PROPOSED AND EXISTING BUILDINGS.
12. BORROWED FILL MATERIALS ARE TO BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE ON THIS SITE.
13. CONTRACTOR TO LOCATE STOCKPILING OF SOILS IN THE STAGING AREA. WHEN THE CONTRACTOR HAS SELECTED THE LOCATION HE/SHE IS TO CONTACT THE ENGINEER TO VALIDATE THE LOCATION IS APPROPRIATE.
14. ALL DISTURBED GRADE AREAS TO BE SODDED AT COMPLETION OF PROJECT.
15. IF ANY EXISTING ASBESTOS COATED SEWER LINE IS UNEARTHED, IT WILL REQUIRE ABATEMENT IN ACCORDANCE WITH LOCAL, STATE AND/OR FEDERAL GUIDELINES . CONTRACTOR SHALL NOTIFY UNIVERSITY HEALTH & ENVIRONMENTAL SERVICES IMMEDIATELY.
16. ALL CONSTRUCTION AND MATERIALS INSTALLED WITHIN THE RIGHT-OF-WAY SHALL CONFORM WITH METRO PUBLIC WORKS STANDARDS.
17. CONTRACTOR SHALL VERIFY PROPOSED GRADES AND SLOPES MEET APPLICABLE CODE COMPLIANCE. CONTACT CARMAN OFFICE UPON ANY DISCREPANCY.

CODED NOTES

KEY	DESCRIPTION
1	SINGLE CURB INLET W/ SINGLE FRAME AND GRATE TYPE 1-L MSD STD. DWG. # D1-01-02 DG-02-03
2	CATCH BASIN TYPE 1 MSD STD. DWG. #DC-01-01
3	PRECAST MANHOLE - TYPE 1 W/ STANDARD FRAME & LID MSD STD. DWG. #GM-01-04, GM-05-03
4	18"X18" YARD DRAIN MSD STD. DWG. #DI-06-01
5	ROLLED CURB INLET BY NEENAH FOUNDRY OR ENGINEERED EQUAL NEENAH R-3501-TR
6	8" PERFORATED PIPE W/ SOCK. INSTALL WHERE INDICATED AT .5% MIN. SEE ARROWS FOR DIRECTION OF DRAINAGE. ENSURE POSITIVE DRAINAGE.
7	6" PERFORATED HDPE WRAPPED IN FILTER FABRIC. DRAIN AT 1% MIN, CONNECT TO STORM AS INDICATED ON PLANS.
8	10" OR 12" HDPE INTERNAL ROOF DRAIN AT MIN. 0.5% SLOPE. PROVIDE MIN. 12" COVER OVER PIPE & CONNECT TO STORM SYSTEM WITH WYE OR TEE FITTING.
9	FIELD ALTERNATE #1 - RAIN WATER HARVESTING TANK. REFER TO RAIN WATER HARVESTING SHEET FOR ADDITIONAL INFORMATION.
10	CLEAN OUT
11	CDS WATER QUALITY UNIT OR ENGINEERED EQUIVALENT TO TREAT FIRST FLUSH VOLUME OF 0.099 AC-FT OR Q=1.11 CFS
12	CDS WATER QUALITY UNIT OR ENGINEERED EQUIVALENT TO TREAT FIRST FLUSH VOLUME OF 0.204 AC-FT OR Q=1.22 CFS
13	TEE OR WYE INTO PIPE AS SHOWN WITH APPROVED FITTINGS
14	USE CAUTION AT UTILITY INTERSECTIONS. CONTRACTOR MAY NEED TO MODIFY DOWNSPOUT AND FOUNDATION DRAINAGE TO AVOID CONFLICTS WITH OTHER UTILITIES.
15	EXISTING CURB BOX INLET
16	JUNCTION BOX TYPE B BY SHERMAN DIXIE OR EQUAL DWG# SRS-584
17	8" HDPE INTERNAL ROOF DRAIN AT MIN. 0.5% SLOPE. PROVIDE MIN. 12" COVER OVER PIPE & CONNECT TO STORM SYSTEM WITH WYE OR TEE FITTING.
18	INFILTRATION BASIN MONITORING WELL: SEE DETAIL A / SD-7.2

PLAN LEGEND

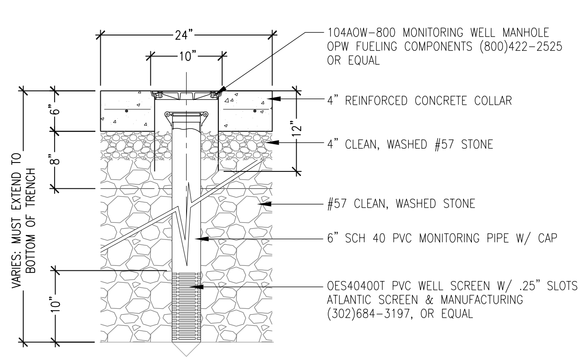
tw	TOP OF WALL
bw	BOTTOM OF WALL
tc	TOP OF CURB
bc	BOTTOM OF CURB
CBI	CURB BOX INLET
SI	SURFACE INLET
CI	CURB INLET
YD	YARD DRAIN
RIM	RIM ELEVATION
MH	MANHOLE
WQU	WATER QUALITY UNIT
JB	JUNCTION BOX
ex	EXISTING SPOT
HDPE	HIGH DENSITY POLYETHYLENE PIPE
DS	DOWN SPOUT
IRD	INTERNAL ROOF DRAIN
PP	PERFORATED PIPE
TD	TRENCH DRAIN
CO	CLEAN OUT

GRAPHIC LEGEND

4XX	PROPOSED CONTOUR
4XX	EXISTING CONTOUR
+4XX	PROPOSED SPOT ELEVATION
	TOP OF BASIN LIMITS
	BOTTOM OF BASIN LIMITS
	BASIN LINER

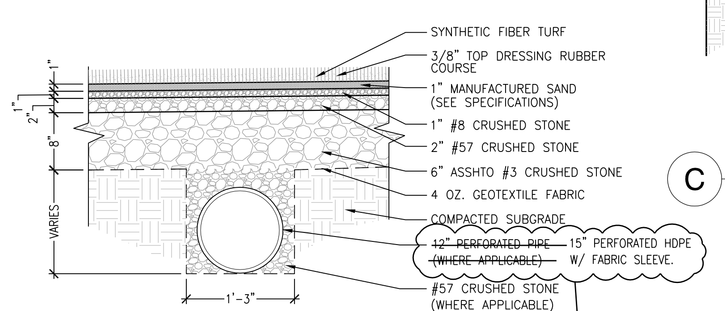
X
- STRUCTURE TYPE
- STRUCTURE ID
- INCOMING LINE

CB-# RIM:60.XX IN(D):60.XX IN(D):60.XX OUT:55.XX



A INFILTRATION BASIN MONITORING WELL

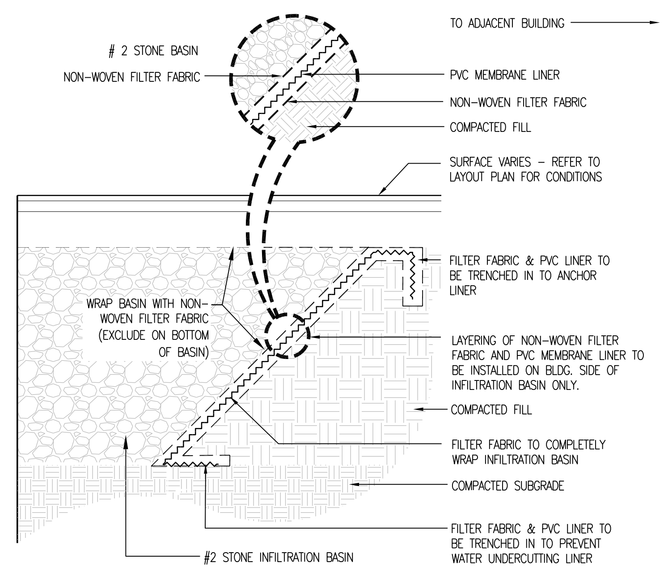
SCALE: 1"=1'-0"



ADDENDUM #2; ITEM #23 DATED 3-02-2012

B FIELD DRAINAGE SECTION

SCALE: 1"=1'-0"



NOTE:
1. DETAIL MAY BE MIRRORED FOR APPLICABILITY.
2. BASIN LINER MUST BE INSTALLED ON BLDG. SIDE OF BASINS ONLY.

C DETENTION BASIN B SECTION

SCALE: 1/4"=1'-0"

PURPOSE OF THESE DRAWINGS IS TO REFLECT ALL CHANGES AND CLARIFICATIONS MADE THRU PREVIOUSLY ISSUED ADDENDA. CONTRACTOR IS RESPONSIBLE FOR ADHERENCE TO IMPROVEMENTS REFLECTED IN THE CONTRACT BIDS AND SPECIFICATIONS.

FOR LOCATION OF UNDERGROUND UTILITIES, CALL B.U.D. 1-502-266-5123 (2) WORKING DAYS IN ADVANCE OF DIGGING

100 % CD's

Consolidated Addenda 3-11-12

University of Louisville - Student Recreational Facility (Bid Phase #4) Louisville, Ky

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#	Revision Date
1	
2	
3	
4	
5	
6	
7	
8	

Drawing Name / Description:	DRAINAGE PLAN
U of L Project Number:	
A&E Project Number:	
Date:	JANUARY, 2012
Drawn By:	SDS
Checked By:	JLC / KLW

SD-7.2