DUNWOODY RENAISSANCE PARKS

GSWCC Georgia Soil and Water Conservation Commission

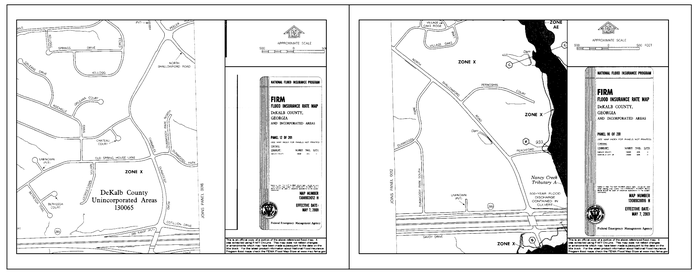
JOSEPH E. DAVIS
Level II Certified Design Professional

Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

4000 DUNWOODY PARK
PID# 18 345 01 001
CITY OF DUNWOODY, GA 30346

FEMA FLOODPLAIN:

THE PROPOSED SITE IS NOT LOCATED WITHIN THE FLOODPLAIN AS DEFINED BY FIRM COMMUNITY PANEL NUMBER 13089C0012H AND 13089C0016H DATED MAY 7, 2001.



PROJECT NARRATIVE:

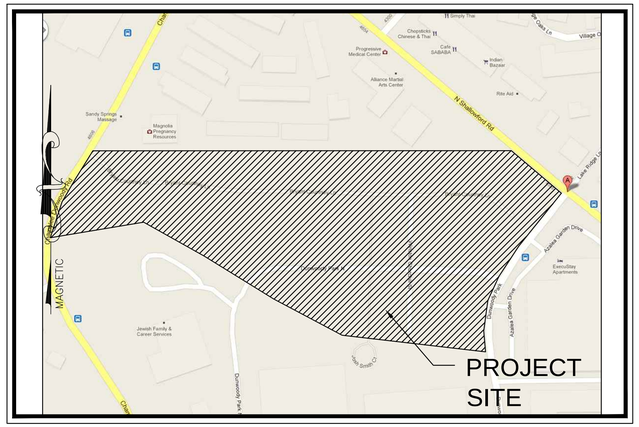
EXISTING LAND IS CURRENTLY A DEFUNCT HIGH DENSITY RESIDENTIAL SUBDIVISION. PROPOSED PROJECT IS A PARKS IMPROVEMENT WITH LANDSCAPE AND HARDSCAPE IMPROVEMENTS INCLUDING TWO RESTROOMS, MULTI-USR PATH, AND PLAYGROUNDS AREAS, AND GATHERING SPOTS. THE PARK AREAS WILL RESULT IN THE ABANDONMENT OF UNUSED WATER AND SEWER IN ACCORDANCE WITH DCDWM STANDARDS AND THE EXTENSION OF WATER AND SEWER LINES FOR TWO PROPOSED RESTROOM BUILDINGS AS WELL AS PARK IRRIGATION. ACCORDING TO DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT RECORDS THE EXISTING SITE WATER AND SEWER HAS NOT BEEN ACCEPTED BY DEKALB COUNTY. DEKALB COUNTY IS IN THE PROCESS OF INSPECTING AND TESTING THE WATER AND SEWER LINES FOR APPROVAL

DEKALB COUNTY WATER AND SEWER WORK LIST :

1 (ONE) – 1.0" IRRIGATION METER (SEE SHEET C6-02)
2 (TWO) – 1.5" IRRIGATION METERS (SEE SHEETS C6-00 AND C6-02)
3 (THREE) – ABOVE GROUND RPZ BACKFLOW DEVICE IN WEATHERPROOFED ENCLOSURE PER DCDWM STANDARDS
2 (TWO) – 1.5" DOMESTIC METERS (SEE SHEETS C6-00 AND C6-02)
2 (TWO) – 1.5" DCV BFP IN BELOW GRADE BOX
3 (THREE) – FIRE HYDRANT RELOCATIONS
2 (TWO) – 6" SEWER LATERAL CONNECTIONS

CONTACTS

OWNER:	THE CITY OF DUNWOODY 41 PERIMETER CENTER EAST SUITE 250 DUNWOODY, GA 30346 PHONE: (678) 382-6700 CONTACT: BRENT WALKER
LANDSCAPE ARCHITECT:	KIMLEY-HORN AND ASSOCIATES, INC. 817 WEST PEACHTREE STREET, NW THE BILTMORE, SUITE 601 ATLANTA, GA 30308 PHONE: (404) 419-8700 FAX: (404) 419-8701 CONTACT: RAY STRYCHALSKI
ARCHITECT:	KACENA DESIGN, LLC 2944 RIDGELOCK COURT ATLANTA, GA 30360 PHONE: (404) 803-3869 CONTACT: CHRIS KACENA
CIVIL ENGINEER:	KIMLEY-HORN AND ASSOCIATES, INC. 817 WEST PEACHTREE STREET, NW THE BILTMORE, SUITE 601 ATLANTA, GA 30308 PHONE: (404) 419-8700 FAX: (404) 419-8701 CONTACT: BEN SKIDMORE
ELECTRICAL ENGINEER:	WOMACK LUMSDEN & ASSOCIATES, LLC 4200 PERIMETER PARK SOUTH SUITE 225 ATLANTA, GA 30341 PHONE: (770) 458-3005 FAX: (770) 458-8388 CONTACT: BILL WOMACK



LOCATION MAP

NOT TO SCALE

LAND LOT 345 - 18TH DISTRICT
CITY OF DUNWOODY
DEKALB COUNTY, GEORGIA

ZONING: PD

OVERALL SITE AREA = 15.93 ACRES
TOTAL DISTURBED AREA = 5.0 ACRES

24-HOUR CONTACT
BRENT WALKER
(678) 382-6857

811 Know what's below. Call before you dig.

PRIOR TO LAND DISTURBING CONSTRUCTION THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY OF DUNWOODY.

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SHEET #	TITLE	SHEET #	TITLE
C0-00	COVER SHEET	A0.1	INFORMATION SHEET
C0-01	ABBREVIATIONS, LINETYPES, & SYMBOLS	A0.2	ACCESSIBILITY DETAILS
C0-02	GENERAL NOTES	A1.1	LARGE RESTROOM PLANS
	SURVEY (BY OTHERS)	A1.2	SMALL RESTROOM PLANS
C1-00	EXISTING CONDITIONS PLAN	A1.3	TOWN PAVILION PLANS
C1-01	EXISTING CONDITIONS PLAN	A1.4	SHADE PAVILION DETAILS
C1-02	EXISTING CONDITIONS PLAN	A2.1	LARGE RESTROOM ELEVATIONS
C1-03	EXISTING CONDITIONS PLAN	A2.2	SMALL RESTROOM ELEVATIONS
C2-00	DEMOLITION PLAN	A2.3	TOWN PAVILION ELEVATIONS
C2-01	DEMOLITION PLAN	A3.1	LARGE RESTROOM SECTIONS
C2-02	DEMOLITION PLAN	A3.2	LARGE RESTROOM DETAILS
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C3-00	SITE PLAN	S0.1	GENERAL NOTES & SPECIFICATIONS
C3-01	SITE PLAN	S1.2	TOWN PAVILION FOUNDATION PLANS
C3-02	SITE PLAN	M0.1	GENERAL NOTES
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C3-10	LAYOUT PLAN	E-1	ELECTRICAL LEGEND AND GENERAL NOTES
C3-11	LAYOUT PLAN	E-2	LARGE RESTROOM PLANS
C3-12	LAYOUT PLAN	E-3	PAVILION, SMALL RESTROOM PLANS
C3-13	LAYOUT PLAN	E-4	ELECTRICAL SPECIFICATIONS
C4-00	GRADING & DRAINAGE PLAN	P0.1	PLUMBING LEGEND, SCHEDULES, DETAILS, AND SPECS.
C4-01	GRADING & DRAINAGE PLAN	P1.1	PLUMBING PART PLANS
C4-02	GRADING & DRAINAGE PLAN		
C4-03	GRADING & DRAINAGE PLAN	SE-01	ELECTRICAL LEGEND, SCHEDULE, AND DETAILS
C5-00	EROSION CONTROL PLAN PHASE I	SE-02	SITE PLAN LIGHTING
C5-01	EROSION CONTROL PLAN PHASE I	SE-03	SITE PLAN LIGHTING
C5-02	EROSION CONTROL PLAN PHASE I		
C5-03	EROSION CONTROL PLAN PHASE I	I1-00	IRRIGATION PLAN
C5-10	EROSION CONTROL PLAN PHASE II	I1-01	IRRIGATION PLAN
C5-11	EROSION CONTROL PLAN PHASE II	I1-02	IRRIGATION PLAN
C5-12	EROSION CONTROL PLAN PHASE II	I1-03	IRRIGATION PLAN
C5-13	EROSION CONTROL PLAN PHASE II	I1-04	IRRIGATION DETAILS
C5-20	EROSION CONTROL PLAN PHASE III	I1-05	IRRIGATION DETAILS
C5-21	EROSION CONTROL PLAN PHASE III		
C5-22	EROSION CONTROL PLAN PHASE III	F-1	FOUNTAIN DETAILS
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C6-01	UTILITY PLAN		
C6-02	UTILITY PLAN		
C6-03	UTILITY PLAN		
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C8-00	EROSION CONTROL DETAILS		
C8-01	CONSTRUCTION DETAILS		
C8-02	CONSTRUCTION DETAILS		
C8-03	CONSTRUCTION DETAILS		
C8-04	CONSTRUCTION DETAILS		
L1-00	TREE PROTECTION PLAN		
L1-01	TREE PROTECTION PLAN		
L1-02	TREE PROTECTION PLAN		
L1-03	TREE PROTECTION PLAN		
L2-00	TREE REPLACEMENT PLAN		
L2-01	TREE REPLACEMENT PLAN		
L2-02	TREE REPLACEMENT PLAN		
L2-03	TREE REPLACEMENT PLAN		
L2-04	LANDSCAPE DETAILS		
L3-00	HARDSCAPE DETAILS		
L3-01	HARDSCAPE DETAILS		
L3-02	HARDSCAPE DETAILS		
L3-03	HARDSCAPE DETAILS		
L3-04	HARDSCAPE DETAILS		
L3-05	HARDSCAPE DETAILS		
L3-06	HARDSCAPE DETAILS		
L3-07	HARDSCAPE DETAILS		

HYDROLOGY STATEMENT:

PROPOSED PARK IMPROVEMENTS UTILIZES THE EXISTING STORMWATER MANAGEMENT FACILITY AT THE SOUTHEAST CORNER OF THE PROPERTY. THE PREVIOUSLY APPROVED HYDROLOGY REPORT WAS PREPARED BY HIGHLAND ENGINEERING, LLC IN 2008. THE PROPOSED PARK IMPROVEMENTS PRODUCES AN INCREASE IN PERVIOUS AREA FROM THE PREVIOUSLY APPROVED GROUND COVERS.

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

COVER SHEET

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12

KHA PROJECT NO.: 019124002

SHEET NUMBER
C0-00

Drawing name: K:\ATL_URO\019124002_Dunwoody Ren Parks\CADD\CONSTR\C0-00_COVER.dwg C0-00 COVER ATL Jan 16, 2013 4:15pm by: aaron.leag
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ABBREVIATIONS

GENERAL

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ADA	AMERICANS WITH DISABILITIES ACT
ARCH	ARCHITECT/ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BLDG	BUILDING
C.O.	CERTIFICATE OF OCCUPANCY
DEMO	DEMOLISH
DNR	DEPARTMENT OF NATURAL RESOURCES
DOT	DEPARTMENT OF TRANSPORTATION
DRC	DEVELOPMENT REVIEW COMMITTEE
EIT	ENGINEER IN TRAINING
EPA	ENVIRONMENTAL PROTECTION AGENCY
EPD	ENVIRONMENTAL PROTECTION DIVISION
EX	EXISTING
EXT	EXTENSION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
F.I.R.M.	FLOOD INSURANCE RATE MAP
FIS	FLOOD INSURANCE STUDY
GAB	GRADED AGGREGATE BASE
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION
GPS	GLOBAL POSITIONING SYSTEM
GRTA	GEORGIA REGIONAL TRANSPORTATION AUTHORITY
GSWCC	GEORGIA SOIL AND WATER CONSERVATION COMMISSION
INV	INVERT
LDP	LAND DISTURBANCE PERMIT
LLC	LIMITED LIABILITY CORPORATION
MAINT	MAINTENANCE
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
NDPES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NFIP	NATIONAL FLOOD INSURANCE PROGRAM
NFPA	NATIONAL FIRE PROTECTION AGENCY
NRCS	NATURAL RESOURCES CONSERVATION SERVICE
NOD	NOTICE OF DECISION
PE	PROFESSIONAL ENGINEER
PRO	PROPOSED
REV	REVISION
RLS	REGISTERED LAND SURVEYOR
SAP	SPECIAL ADMINISTRATIVE PERMIT
SLUP	SPECIAL LAND USE PERMIT
SPI	SPECIAL PUBLIC INTEREST
STD	STANDARD
TEMP	TEMPORARY
TRANS	TRANSITION
TYP	TYPICAL
USGS	UNITED STATES GEOLOGICAL SURVEY

EROSION CONTROL AND WATER QUALITY

BMP	BEST MANAGEMENT PRACTICE
d_{50}	AVERAGE RIP-RAP STONE DIAMETER
d_{max}	MAXIMUM RIP-RAP STONE DIAMETER
d_{min}	MINIMUM RIP-RAP STONE DIAMETER
T_c	TIME OF CONCENTRATION

SPOT ELEVATION/GRADING

BC	BOTTOM OF CURB
BG	BOTTOM GRADE AT WALL
BW	BOTTOM OF WALL
HP	HIGH POINT
LP	LOW POINT
P	PAVEMENT
TC	TOP OF CURB
TG	TOP GRADE AT WALL
TW	TOP OF WALL

ABBREVIATIONS

DIMENSIONS AND MEASUREMENTS

AC	ACRE(S)
CF	CUBIC FOOT/FEET
CFS	CUBIC FEET PER SECOND
cm	CENTIMETER(S)
cm/sec	CENTIMETERS PER SECOND
CY	CUBIC YARD(S)
DEG	DEGREE(S)
DIA/Ø	DIAMETER
ELEV	ELEVATION
FF	FINISHED FLOOR ELEVATION
FFE	FINISHED FLOOR ELEVATION
FT	FOOT/FEET
FT/SEC	FEET PER SECOND
GA	GAUGE
GAL	GALLON(S)
GPM	GALLONS PER MINUTE
GSF	GROSS SQUARE FEET
H	HEIGHT
H:V	HORIZONTAL:VERTICAL
HORIZ	HORIZONTAL
in	INCH(ES)
in/hr	INCHES PER HOUR
km	KILOMETER(S)
LB	POUND
LF	LINEAR FOOT/FEET
m	METER(S)
mi	MILE(S)
MIN	MINIMUM
mm	MILLIMETER
mph	MILES PER HOUR
MSF	1,000 SQUARE FEET
MSL	MEAN SEAL LEVEL
NTS	NOT TO SCALE
OC	ON CENTER
PSI	POUNDS PER SQUARE INCH
SF	SQUARE FEET
SY	SQUARE YARD
T	THICKNESS
VERT	VERTICAL
W	WIDTH
YR	YEAR

STORM WATER

c	RUNOFF COEFFICIENT
CI	CURB INLET
DI	DROP INLET
DWCB	DOUBLE WING CATCH BASIN
FB	FREEBOARD
FD	FRENCH DRAIN
FES	FLARED END SECTION
FPL	FLOODPLAIN FW FLOODWAY
HGL	HYDRAULIC GRADE LINE
HODI	HOODED DROP INLET
HW	HEADWALL
HWE	HIGH WATER ELEVATION
JB	JUNCTION BOX
MES	MITERED END SECTION
MH	MANHOLE
n	MANNING'S ROUGHNESS COEFFICIENT
OCS	OUTLET CONTROL STRUCTURE
Q	FLOW
Q#	# YEAR FLOW
Qmax	MAXIMUM FLOW
Qmin	MINIMUM FLOW
RD	ROOF DRAIN
SD	STORM DRAIN
ST	STORM SEWER
SWCB	SINGLE WING CATCH BASIN

ABBREVIATIONS

SITE, STAKING, AND SURVEY

BC	BACK OF CURB
BM	BENCH MARK
BOC	BACK OF CURB
BSL	BUILDING SETBACK LINE
C	LENGTH OF CHORD
CN	CURVE NUMBER
C&G	CURB AND GUTTER
C/G	CURB AND GUTTER
CL	CENTERLINE
CMF	CONCRETE MONUMENT FOUND
CONC	CONCRETE
E	EASTING
EOP	EDGE OF PAVEMENT
EP	EDGE OF PAVEMENT
FC	FACE OF CURB
FOC	FACE OF CURB
IPF	IRON PIN FOUND
IPS	IRON PIN SET
I	LENGTH OF BEARING
L	LENGTH OF CURVE
L#	LINE NUMBER
LL	LAND LOT
LLC	LAND LOT CORNER
LLL	LAND LOT LINE
MON	MONUMENT
N	NORTHING
NAD	NORTH AMERICAN DATUM
P#	POINT NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF CONTINUOUS CURVATURE
PL	PROPERTY LINE
P/L	PROPERTY LINE
POB	POINT OF BEGINNING
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
R	RADIUS OF CURVE
R/W	RIGHT-OF-WAY
ROW	RIGHT-OF-WAY
SBL	SETBACK LINE
SR	STATE ROUTE
T	LENGTH OF TANGENT

UTILITY

ACCMP	ALUMINUM COATED CORRUGATED METAL PIPE
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BFP	BACKFLOW PREVENTER
CATV	CABLE TELEVISION CI CAST IRON
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CPP	CORRUGATED PLASTIC PIPE
CV	CHECK VALVE
DDC	DOUBLE DETECTOR CHECK
DIP	DUCTILE IRON PIPE
DW	DOMESTIC WATER SERVICE
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FM	FORCE MAIN
FOC	FIBER OPTIC CABLE
FW	FIRE WATER SERVICE GV GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HYD	FIRE HYDRANT
LDPE	LOW DENSITY POLYETHYLENE
OHC	OVERHEAD CABLE TELEVISION LINE
OHP	OVERHEAD POWER LINE
OHT	OVERHEAD TELEPHONE LINE
PIV	POST INDICATOR VALVE
PP	POWER POLE
PT&C	POWER, TELEPHONE, AND CABLE TELEVISION LINE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SAN	SANITARY SEWER
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
UGC	UNDERGROUND CABLE TELEVISION LINE
UGP	UNDERGROUND POWER LINE
UGT	UNDERGROUND TELEPHONE LINE
VCP	VITRIFIED CLAY PIPE

LINETYPES

CONTOURS

- 998 — 1' OR 2' CONTOUR
- 1000 — 5' OR 10' CONTOUR

FENCES

- FENCE LINE
- FENCE LINE/GUARDRAIL
- FENCE LINE
- X — X — X — X — X — SILT FENCE

GAS & FUEL

- GAS — GAS — NATURAL GAS LINE
- 3-G — 3-G — 3" DIAMETER NATURAL GAS LINE
- 4-G — 4-G — 4" DIAMETER NATURAL GAS LINE
- FUEL — FUEL — FUEL — FUEL LINE
- DIESEL — DIESEL — DIESEL FUEL LINE

SANITARY SEWER

- SAN — SAN — SANITARY SEWER LINE
- 4-SS — 4-SS — 4-SS — 4" DIAMETER SANITARY SEWER LINE
- 6-SS — 6-SS — 6-SS — 6" DIAMETER SANITARY SEWER LINE
- 8-SS — 8-SS — 8-SS — 8" DIAMETER SANITARY SEWER LINE
- 10-SS — 10-SS — 10-SS — 10" DIAMETER SANITARY SEWER LINE
- 12-SS — 12-SS — 12-SS — 12" DIAMETER SANITARY SEWER LINE
- ST/SS — ST/SS — ST/SS — COMBINED SANITARY SEWER LINE
- FM — FM — FORCE MAIN

WATER

- W — W — WATER LINE
- 2-W — 2-W — 2" DIAMETER WATER LINE
- 3-W — 3-W — 3" DIAMETER WATER LINE
- 4-W — 4-W — 4" DIAMETER WATER LINE
- 4-DW — 4-DW — 4-DW — 4" DIAMETER DOMESTIC WATER LINE
- 4-FW — 4-FW — 4-FW — 4" DIAMETER FIRE WATER LINE
- 6-W — 6-W — 6" DIAMETER WATER LINE
- 6-DW — 6-DW — 6-DW — 6" DIAMETER DOMESTIC WATER LINE
- 6-FW — 6-FW — 6-FW — 6" DIAMETER FIRE WATER LINE
- 8-W — 8-W — 8" DIAMETER WATER LINE
- 8-DW — 8-DW — 8-DW — 8" DIAMETER DOMESTIC WATER LINE
- 8-FW — 8-FW — 8-FW — 8" DIAMETER FIRE WATER LINE
- 10-W — 10-W — 10-W — 10" DIAMETER WATER LINE
- 10-DW — 10-DW — 10-DW — 10" DIAMETER DOMESTIC WATER LINE
- 10-FW — 10-FW — 10-FW — 10" DIAMETER FIRE WATER LINE
- 12-W — 12-W — 12-W — 12" DIAMETER WATER LINE
- 12-DW — 12-DW — 12" DIAMETER DOMESTIC WATER LINE
- 12-FW — 12-FW — 12" DIAMETER FIRE WATER LINE
- 42-W — 42-W — 42-W — 42" DIAMETER WATER LINE

WATER RELATED

- STORM — STORM — STORM — STORM SEWER LINE
- CHW — CHW — CHW — CHILLED WATER LINE
- HW — HW — HOT WATER LINE
- FD — FD — FRENCH DRAIN
- IRR — IRR — IRRIGATION LINE
- RD — RD — ROOF DRAIN
- RW — RW — RAW WATER LINE
- STEAM — STEAM — STEAM — STEAM LINE

UTILITIES

- CATV — CATV — CABLE TELEVISION
- DB — DB — DUCT BANK
- FOC — FOC — FIBER OPTIC CABLE
- OHP — OHP — OVERHEAD POWER
- OHT — OHT — OVERHEAD TELEPHONE
- OHP-OHC — OHP-OHC — OVERHEAD POWER & CABLE
- OHP-OHT — OHP-OHT — OVERHEAD POWER & TELEPHONE
- OXY — OXY — OXYGEN SUPPLY
- P — P — POWER
- PT&C — PT&C — PT&C — POWER, TELEPHONE, & CABLE
- TEL — TEL — TELEPHONE
- UGC — UGC — UNDERGROUND CABLE TELEVISION
- UGP — UGP — UNDERGROUND POWER
- UGP-UGT — UGP-UGT — UNDERGROUND POWER & TELEPHONE
- UGT — UGT — UNDERGROUND TELEPHONE

MISCELLANEOUS

- CENTERLINE
- XC — XC — CROSS COUNTRY PATH
- C — C — CUT LINE
- F — F — FILL LINE
- ~~ — ~~ — MULCH BERM
- PROPERTY LINE
- SETBACK LINE
- SOIL BERM — SOIL BERM — SOIL BERM
- TPF — TPF — TREE PROTECTION FENCE

SYMBOLS

DEMOLITION

- REMOVE EXISTING OBJECT
- REMOVE UTILITIES & FENCING
- REMOVE STRUCTURE
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE, CURB AND GUTTER
- REMOVE GRAVEL
- X — REMOVE TREE

GRADING AND DRAINAGE/SPOT ELEVATION

- DRAINAGE DIRECTIONAL ARROW
- SLOPE DIRECTIONAL ARROW
- SPOT ELEVATION (ELEVATION AT INTERSECTION OF LINES)

SITE ITEMS

- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- HEAVY DUTY ASPHALT PAVEMENT
- COMPACTED GRAVEL PAVEMENT
- PAVERS (REFER TO PLANS FOR DETAILS)
- REINFORCED TURF (REFER TO PLANS FOR DETAILS)
- COMPACTED SOIL
- FLUME COVER
- RIGHT TURN TRAFFIC DIRECTIONAL ARROW
- THROUGH TRAFFIC DIRECTIONAL ARROW
- LEFT TURN TRAFFIC DIRECTIONAL ARROW
- THROUGH/RIGHT TURN TRAFFIC DIRECTIONAL ARROW
- THROUGH/LEFT TURN TRAFFIC DIRECTIONAL ARROW
- HANIDCAP PARKING
- NUMBER OF PARKING SPACES
- LAND LOT NUMBER(S)
- HANDICAP RAMP

STORM WATER

- DROP INLET
- HOODED DROP INLET
- DROP INLET WITH 2' x 3' GRATE
- SQUARE WEIR TYPE DROP INLET
- ROUND WEIR TYPE DROP INLET
- SINGLE WING CATCH BASIN
- DOUBLE WING CATCH BASIN
- HEADWALL
- FLARED END SECTION
- JUNCTION BOX
- ROOF DRAIN
- STORMCEPTOR

SANITARY SEWER

- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- GREASE TRAP/GREASE TRAP CHAMBER

WATER

- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION/SIAMESE CONNECTION
- CHECK VALVE
- GATE VALVE
- IRRIGATION VALVE/WATER VALVE
- POST INDICATOR VALVE
- WATER VALVE
- WATER METER
- WATER METER/DOUBLE DETECTOR CHECK VALVE/ BACK FLOW PREVENTER (REFER TO PLAN LABELS)

UTILITY

- GAS METER
- POWER MANHOLE
- POWER POLE/LIGHT POLE
- UTILITY POLE
- TELEPHONE/TELECOMMUNICATIONS MANHOLE

SYMBOLS

GENERAL

- GRAPHIC SCALE
- HALF SIZE DRAWING
- NORTH DIRECTIONAL ARROW
- REVISION NUMBER
- DETAIL CALLOUT (DETAIL #, SHEET #, NAME, ADDITIONAL DESCRIPTION, ADDITIONAL DESCRIPTION)

Kimley-Horn and Associates, Inc.
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SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

ABBREVIATIONS, LINETYPES, AND SYMBOLS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C0-01

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren. Parks\CADD\CONSTR\C0-00_COVER.dwg C0-01 Jan 16, 2013 4:15pm by: aaron.legg

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PROJECT INFORMATION:

1. PROJECT:
DUNWOODY RENAISSANCE PARK
CHAMBLEE DUNWOODY RD
DUNWOODY, GA

2. OWNER INFORMATION:
CITY OF DUNWOODY
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
PHONE: (678) 382-3800
CONTACT: BRENT WALKER

3. CIVIL ENGINEER AND LANDSCAPE ARCHITECT:
KIMLEY-HORN AND ASSOCIATES, INC.
THE BILTMORE
SUITE 601
817 W. PEACHTREE STREET, NW
ATLANTA, GEORGIA 30308
CONTACT: RAY STRYCHALSKI
JOE DAVIS, P.E.
TEL: (404) 419-8700
FAX: (404) 419-8701

4. 24-HOUR CONTACT:
BRENT WALKER
CITY OF DUNWOODY
(678) 382-6857

PROJECT SITE INFORMATION:

1. PROJECT LOCATION:
PID# 18 345 01 001
CITY OF DUNWOODY
LAND LOT 345
18TH DISTRICT
DEKALB COUNTY, GA

2. PROJECT SITE AREA:
DISTURBED AREA: ± 5.0 ACRES
TOTAL AREA: ± 15.93 ACRES

SURVEY INFORMATION:

1. SURVEYOR:
TERRAMARK
(SURVEY INFOMRATION PROVIDED BY CITY OF DUNWOODY)

2. SURVEY NOTES:
SURVEY DATED: 07-09-2012.

3. BENCHMARK INFORMATION:
DATUM IS BASED ON MEAN SEA LEVEL.

4. FLOOD MAP INFORMATION:
SUBJECT PROPERTY DOES NOT LIE WITHIN FLOOD HAZARD AREA AS PER FIRM PANEL 13089C0012H AND 13089C0016H DATED MAY 7, 2001.

5. UTILITY INFORMATION:
THE UNDERGROUND UTILITIES SHOWN ON THE SURVEY HAVE BEEN LOCATED FROM FIELD INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL THE UNDERGROUND UTILITIES.

ZONING INFORMATION:

RM-HD; ZONING CASE # CZ-03033

CITY OF DUNWOODY INFORMATION:

1. NOTIFICATIONS:

NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION. INSPECTOR CONTACT INFORMATION WILL BE COMMUNICATED AT THE PRE-CONSTRUCTION MEETING

2. EROSION CONTROL VIOLATIONS:

THE CONTRACTOR MUST STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE CITY OF DUNWOODY INSPECTOR AND/OR THE PROFESSIONAL ENGINEER.

3. WATER SYSTEM:

HYDRANT(S) AND MAIN(S) SHALL BE INSTALLED AND UNDER PRESSURE BEFORE ANY COMBUSTIBLE CONSTRUCTION IS STARTED.

CONTRACTOR RESPONSIBILITIES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

A. THE CONTRACTOR SHALL VERIFY ALL PROPOSED AND EXISTING CONDITIONS INCLUDING UTILITIES (INVERTS, CONNECTIONS, MATERIALS, ETC.) AND DIMENSIONS WITHIN THE LIMITS OF WORK PRIOR TO THE START OF CONSTRUCTION.

B. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED BUILDING INFORMATION.

C. THE CONTRACTOR IS RESPONSIBLE FOR ALL NOTIFICATIONS AND LIAISONS WITH UTILITY COMPANIES DURING THE PROCESS OF LOCATING, RELOCATING, AND TYING INTO PUBLIC UTILITIES.

D. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

2. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

A. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.

B. THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS. WHERE A CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN ENGINEER'S WRITTEN APPROVAL OF THE SPECIFIC DEVIATION.

C. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

D. ALL CONSTRUCTION MUST CONFORM TO THE STANDARDS, SPECIFICATIONS, AND CODES OF THE GOVERNING MUNICIPALITIES.

E. CONSTRUCTION SHALL MEET ALL STANDARDS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT.

F. IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO ORIGINAL CONDITION AND QUALITY AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.

G. SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS IN ACCORDANCE WITH GOVERNING ORDINANCES MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. SAID CONTROL DEVICES SHALL BE PER THE MANUAL OF TRAFFIC CONTROL DEVICES, M.U.T.C.D., CURRENT EDITION, AND SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.

H. TRAFFIC CONTROLS AND OTHER WARNING DEVICES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORK ON CITY, COUNTY, OR GEORGIA DEPARTMENT OF TRANSPORTATION ROADS. THEY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL WORK.

I. ALL WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE. THEY SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND CITY OF ATLANTA STANDARDS FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.

J. FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED AT ALL TIMES.

K. CONTRACTOR SHALL SHORE AND BRACE ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, THERMAL, CONSTRUCTION, AND MISCELLANEOUS LOADS DURING CONSTRUCTION.

L. ON-SITE BURIAL OF DEBRIS IS PROHIBITED.

M. UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS TO THE ENGINEER. DESIGN DOCUMENTS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS.

N. IN CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES, THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.

O. ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.

P. AS-BUILT DRAWINGS OF ROADWAYS, STORM DRAINS, SANITARY SEWER AND WATER LINES, FIELD APPROVAL BY THE ENGINEER, AND ALL APPLICABLE BONDS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE OWNER.

Q. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICATIONS, ALL FILL AREAS MUST BE COMPACTED TO MINIMUM 98% STANDARD PROCTOR FOR TOP 12" UNDER PAVEMENT AND BUILDING SLABS.

R. CONTRACTOR SHALL MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL EXISTING BUILDINGS THROUGHOUT CONSTRUCTION UNLESS APPROVAL FOR SERVICE INTERRUPTION IS OBTAINED FROM THE OWNERS IN ADVANCE.

S. CUT AND FILL SLOPES SHALL NOT EXCEED 2:1 H:V.

DEMOLITION INFORMATION:

1. NOTIFICATIONS:

THE CONTRACTOR SHALL NOTIFY THE OWNER AND CITY INSPECTOR(S) 24 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

2. DISPOSAL GUIDELINES:

A. ONLY ITEMS SPECIFICALLY NOTED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE.

B. REMOVE EXISTING PAVED AREAS AS SHOWN INCLUDING DRIVEWAYS, SIDEWALKS, PARKING AREAS, SERVICE AREAS, EQUIPMENT PADS, AND ALL MISCELLANEOUS PAVING.

C. ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR. BACKFILL ALL TRENCHES AND EXCAVATIONS RESULTING FROM DEMOLITION.

D. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.

3. UTILITIES:

A. PRIOR TO REMOVING OR ABANDONING ANY UTILITY THE CONTRACTOR SHALL VERIFY THAT NO UPSTREAM SERVICE WILL BE TERMINATED. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY TERMINATION NOT SHOWN ON THE PLANS.

B. ALL ABANDONED WATER LINES, STORM SEWER PIPE, SANITARY SEWER PIPES, GAS LINES, OR ANY OTHER ABANDONED UNDERGROUND UTILITY SHALL BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE.

5. GRADING:

COMPACT AND ROUGH GRADE THE ENTIRE SITE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ANY EXCAVATIONS IN THESE AREAS SHALL BE BACKFILLED, BUT DO NOT RAISE OR LOWER EXISTING GRADES.

CONCRETE INFORMATION (SITE WORK ONLY):

1. PRODUCT CRITERIA:

A. UNLESS OTHERWISE NOTED CEMENT SHALL BE TYPE I OR III CONFORMING TO ASTM C150. AGGREGATES SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C33.

B. CONCRETE SHALL CONFORM TO ACI BUILDING CODE (318-89). UNLESS NOTED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,500 P.S.I.

C. SLUMP SHALL BE 3" TO 5" FOR REGULAR MIX. LARGER SLUMP SHALL BE PERMITTED WITH WATER REDUCING ADMIXTURES AND WRITTEN CONSENT OF THE ENGINEER.

D. THE RELATIONSHIP BETWEEN MAXIMUM AGGREGATE SIZE TO MINIMUM AMOUNT OF CEMENT IN CONCRETE PAVEMENT (LB. PER C.Y. OR MIX) SHALL BE AS FOLLOWS: 1" - 520, 3/4" - 540, 1/2" - 590, 3/8" - 610.

2. CURING CRITERIA:

A. CONCRETE CURING SHALL COMPLY WITH ACI 308. CURING PROCESS SHALL START IMMEDIATELY FOLLOWING INITIAL SET. CURING SHALL BE BY CURING COMPOUND.

B. CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ACI 318-89 TABLE 4.1.1. NORMAL WEIGHT CONCRETE SLABS SHALL HAVE AIR CONTENT IN ACCORDANCE WITH ACI 302.1R-89 TABLE 5.2.7A.

C. HOT WEATHER CONCRETING SHALL COMPLY WITH ACI 305. NO CONCRETE ABOVE 90 DEGREES FAHRENHEIT SHALL BE POURED. LOWER CONCRETE TEMPERATURE BY COOLING WATER AND AGGREGATE. FORMS, STEEL, AND SUBGRADE SHALL BE SPRINKLED WITH COLD WATER. AFTER FINISHING CONCRETE USE LIGHT FOG SPRAY UNTIL CURING COMPOUND IS USED.

D. COLD WEATHER CONCRETING SHALL COMPLY WITH ACI 306. SPECIAL MATERIAL PROCEDURES SHALL BE PROVIDED DURING PLACING AND CURING OF CONCRETE BELOW 40 DEGREES FAHRENHEIT.

E. CURING, HOT, AND COLD WEATHER CONCRETING PROCEDURES ARE ONLY GIVEN AS A GUIDE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT CONCRETE DAMAGE AND CRACKS. DAMAGED OR CRACKED CONCRETE WILL NOT BE ACCEPTED.

REINFORCING STEEL INFORMATION (SITE WORK ONLY):

1. PRODUCT CRITERIA:

A. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 AND GRADE 40 FOR #3 AND SMALLER BARS. MINIMUM LAP 48" DIAMETER.

B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, MINIMUM LAP SHALL BE 8".

C. REINFORCING THAT IS WELDED SHALL BE WELDABLE TYPE AND CONFORM TO ASTM A-706.

PAVEMENT INFORMATION:

1. PAVEMENT:

A. ALL MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION, AND WORKMANSHIP SHALL CONFORM TO THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION.

B. SEE PAVEMENT DETAILS ON CONSTRUCTION DOCUMENTS FOR SPECIFIC DESIGN INFORMATION AND REQUIREMENTS.

C. ALL CURB AND GUTTER TO BE 24" AND CONSTRUCTED OF 3000 P.S.I. CONCRETE UNLESS OTHERWISE NOTED.

2. SIGNING AND STRIPING:

A. SIGNING AND STRIPING TO BE PROVIDED BY THE CONTRACTOR ACCORDING TO THE DRAWINGS AND SPECIFICATIONS.

B. ALL STRIPING TO BE THERMOPLASTIC IN ROADWAY. PARKING STRIPING CAN BE STD PAINT.

EROSION AND SEDIMENT CONTROL INFORMATION:

1. COMPREHENSIVE:

A. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

B. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND THE CITY OF ATLANTA CODES GOVERNING EROSION AND SEDIMENTATION CONTROL. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

C. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE STANDARDS SPECIFIED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND CITY OF ATLANTA STANDARDS.

D. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

E. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

F. THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

G. CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAIR, AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OFF SITE ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

EROSION AND SEDIMENT CONTROL INFORMATION: (continued)

H. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

I. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION.

J. EROSION CONTROL DEVICES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY DEMOLITION.

K. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 - TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CURRENT EDITION, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND CITY OF DUNWOODY STANDARDS.

L. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

2. DURING CONSTRUCTION:

A. ON-SITE DUST CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCA CODES AND REGULATIONS.

B. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT HAS REACHED HALF THE HEIGHT OF SILT FENCE UTILIZED FOR EROSION CONTROL.

C. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. STONE FOR RIP-RAP SHALL CONSIST OF ROUGH UN-HEWN QUARRY GRANITE AS NEARLY IN RECTANGULAR SECTION AS PRACTICAL. THE MINIMUM SIZE STONE SHALL WEIGH BETWEEN 75 AND 150 POUNDS AND SHALL BE HAND PLACED AS A LOOSE STONE EMBANKMENT.

D. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

E. AT ANY TIME DURING CONSTRUCTION IF IT BECOMES NECESSARY TO PUMP STORM WATER OR GROUNDWATER FROM AN EXCAVATION, THE PUMPED WATER MUST MEET THE TURBIDITY REQUIREMENTS OUTLINED IN THE SITE SPECIFIC COMPREHENSIVE MONITORING PROGRAM. WATER THAT DOES NOT MEET THESE REQUIREMENTS MUST BE FILTERED OR DISCHARGED INTO A TEMPORARY SEDIMENT BASIN UNTIL IT MEETS THE TURBIDITY REQUIREMENTS. ONCE THE TURBIDITY REQUIREMENTS HAVE BEEN MET THE WATER MAY BE DISCHARGED INTO THE STORM SEWER SYSTEM. AS A MINIMUM TURBIDITY TESTS SHOULD BE PERFORMED AS FOLLOWS:

* DURING DRY CONDITIONS: ONE TEST EVERY TWO WEEKS.
* DURING WET CONDITIONS: ONE TEST PER WEEK AND AFTER EACH QUALIFYING RAINFALL EVENT.
* DURING SIGNIFICANT GRADING ACTIVITIES: ONE TEST PER WEEK UNTIL THE SITE IS STABLE.

THESE SAME REQUIREMENTS APPLY TO ALL AUTHORIZED NON-STORM WATER DISCHARGES UNDER THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES (DNR) ENVIRONMENTAL PROTECTION DIVISION (EPD) GENERAL PERMIT NO. GAR 100000, AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

F. NO GRADED SLOPE SHALL EXCEED 2H:1V.

STORM DRAINAGE INFORMATION:

1. PIPES:

A. UNLESS OTHERWISE NOTED ON THE DRAWING RCP SHALL BE CLASS III WITH "O" RING JOINTS.

B. THE PIPE MANUFACTURER SHALL SUPPLY A CLASSIFICATION OF THE PIPE SPECIFICATIONS FOR EACH PIPE PRIOR TO INSTALLATION.

C. PIPE INSTALLATION SHALL CONFORM TO THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, CURRENT EDITION.

D. ALL ROOF DRAIN MANIFOLDS SHALL HAVE A MINIMUM SLOPE OF 1.00%.

E. REFER TO SPEC BOOK FOR ADDITIONAL PIPE SPECIFICATIONS.

2. STRUCTURES:

A. ALL STRUCTURES SHALL BE MADE OF PRECAST CONCRETE. ALL INVERTS SHALL BE NEATLY FORMED UP TO THE SPRING LINE WITH MORTAR OR BRICK TO INSURE PROPER FLOW.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL INVERTS AND PIPE SLOPES PRIOR TO INSTALLATION TO ENSURE PROPER COVER AND LENGTHS OF PIPE.

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

GENERAL NOTES

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
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(678) 382-6800

BID SET - ADDENDUM 1

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Drawing name: K:\AMT_URO\019124002_Dunwoody Ren Parks\CADD\CONSTR\C0-00_COVER.dwg C0-02 Jan 16, 2013 4:15pm by: aaron.legg
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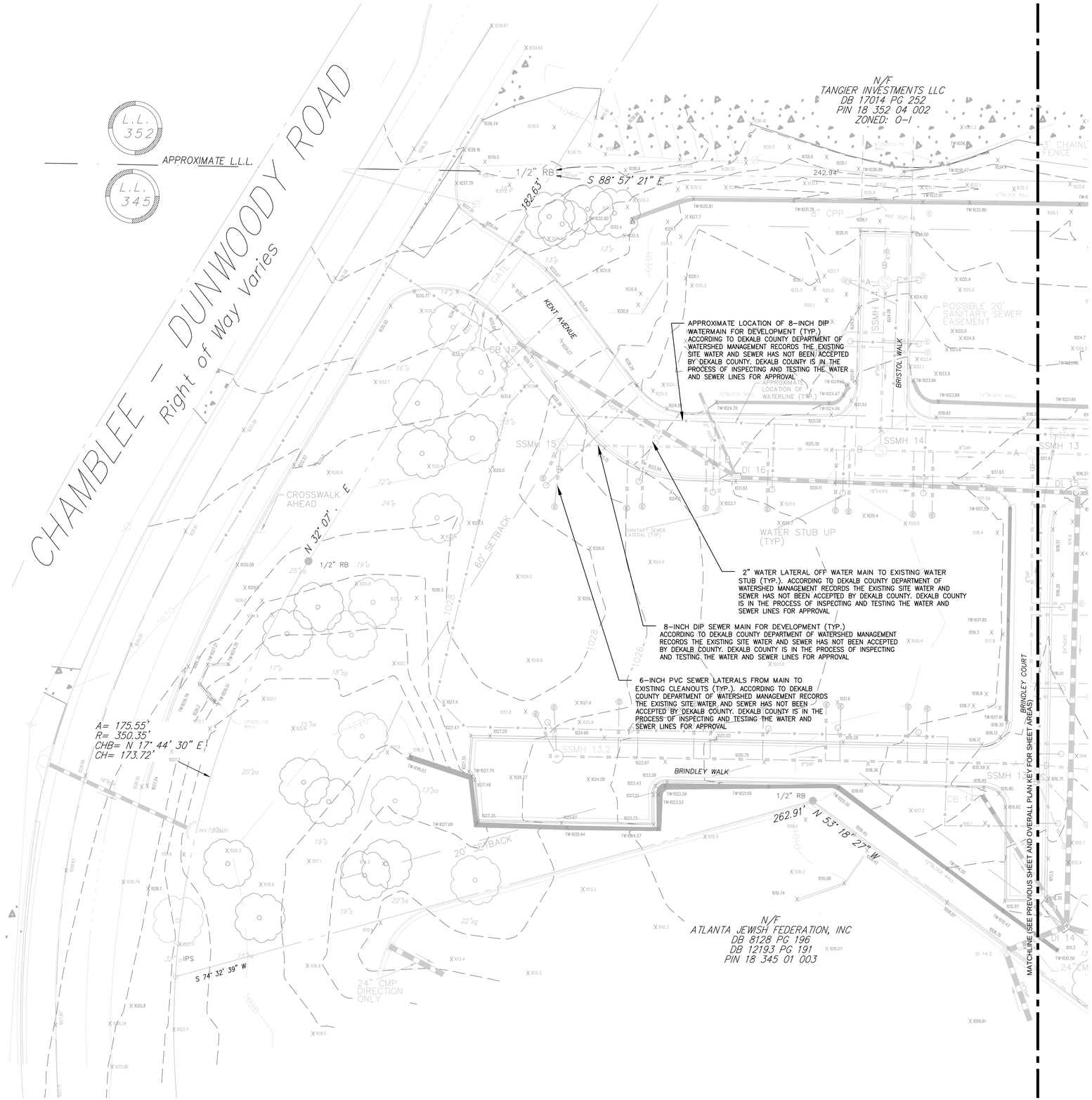
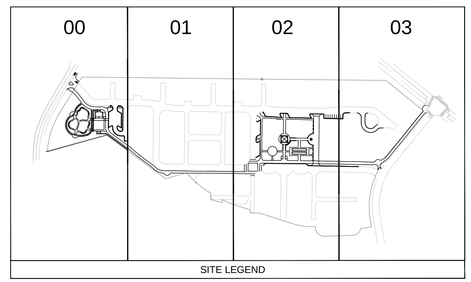
EXISTING CONDITIONS NOTES:

1. EXISTING CONDITION PLAN BASED ON TERRAMARK SURVEY DATED 07/09/12.
2. ACCORDING TO DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT RECORDS THE EXISTING SITE WATER AND SEWER HAS NOT BEEN ACCEPTED BY DEKALB COUNTY. DEKALB COUNTY IS IN THE PROCESS OF INSPECTING AND TESTING THE WATER AND SEWER LINES FOR APPROVAL
3. THE POSSIBLE SEWER EASEMENT IDENTIFIED ON SURVEY BY TERRAMARK WAS NOT FOUND IN COUNTY SYSTEM.
4. WATER LINE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD LOCATE AND VERIFY ALL LINES





SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

EXISTING CONDITIONS PLAN

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3. THE POSSIBLE SEWER EASEMENT IDENTIFIED ON SURVEY BY TERRAMARK WAS NOT FOUND IN COUNTY SYSTEM.
4. WATER LINE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD LOCATE AND VERIFY ALL LINES

APPROXIMATE LOCATION OF 8-INCH DIP WATERMAIN FOR DEVELOPMENT (TYP.) ACCORDING TO DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT RECORDS THE EXISTING SITE WATER AND SEWER HAS NOT BEEN ACCEPTED BY DEKALB COUNTY. DEKALB COUNTY IS IN THE PROCESS OF INSPECTING AND TESTING THE WATER AND SEWER LINES FOR APPROVAL

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APPROXIMATE LOCATION OF WATERLINE (TYP.)

AREA= 694,102 Sq Ft 15.9344 Ac.

90.68' N 45° 16' 06" W

316.97' S 73° 43' 32" W

60.03'

1/2" RB W/ CAP "PEC PROP COR"

75' NORTH GA. METROPOLITAN STREAM BUFFER

25' GA STATE STREAM BUFFER

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

KENT AVENUE

POINTE PLACE AVE.

CROMWELL WALK

CARLISLE WALK

CAMBRIDGE WALK

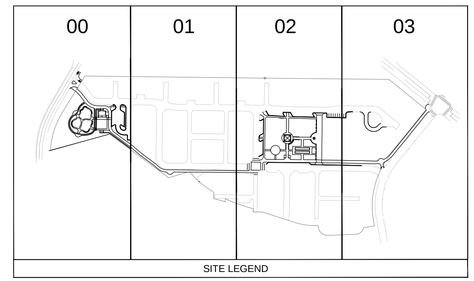
CHAUCER WALK

DEVON WALK

BRINDLEY COURT

ROADWAY (COMMON ELEMENT)

PARK



NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

EXISTING CONDITIONS PLAN

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C1-01

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Drawing name: K:\AMT_LIRO\019124002_Dunwoody Ren Parks\CADD\CONSTR\C1-00_EXIST.dwg C1-01 Jan 16, 2013 4:15pm by: aaron.legg

EXISTING CONDITIONS NOTES:

1. EXISTING CONDITION PLAN BASED ON TERRAMARK SURVEY DATED 07/09/12.
2. ACCORDING TO DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT RECORDS THE EXISTING SITE WATER AND SEWER HAS NOT BEEN ACCEPTED BY DEKALB COUNTY. DEKALB COUNTY IS IN THE PROCESS OF INSPECTING AND TESTING THE WATER AND SEWER LINES FOR APPROVAL
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MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

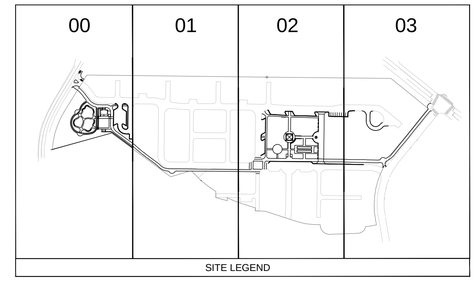
AREA= 694,102 Sq Ft 15.9344 Ac.

POSSIBLE 20' SANITARY SEWER EASEMENT

APPROXIMATE LOCATION OF WATERLINE (TYP.)

APPROX LOCATION BURRIED MANHOLE

WATER STUB UP (TYP)



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

EXISTING CONDITIONS PLAN

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COMMUNITY DEVELOPMENT
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BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C1-02

Drawing name: K:\AMI_LIRO\019124002_Dunwoody Ren. Parks\CADD\CONSTR\C1-00_EXIST.dwg C1-02 Jan 16, 2013 4:15pm by: aaron.legg
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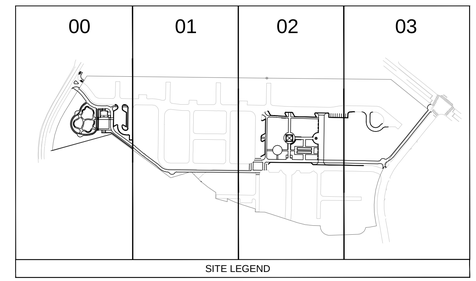
MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)





NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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DUNWOODY
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DUNWOODY, GA 30346

EXISTING CONDITIONS PLAN

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(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C1-03

Drawing name: K:\AMT_LIBR\019124002_Dunwoody Ren Parks\CADD\CONSTR\C1-00_EXIST.dwg C1-03 Jan 16, 2013 4:15pm by: aaron.legg
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DEMOLITION LEGEND:

- REMOVE OBJECT
- REMOVE CONCRETE, CURB AND GUTTER
- REMOVE ASPHALT PAVEMENT
- REMOVE UTILITIES & FENCING
- REMOVE STRUCTURE
- X REMOVE TREE

REMOVE EXISTING CURB FOR PROPOSED CURB RAMP

REMOVE EXISTING CURB FOR PROPOSED CURB RAMP

EXISTING PRIVATE SANITARY SEWER LATERAL TO BE ABANDONED IN PLACE (TYP.) CONTRACTOR TO PROVIDE ADD ALTERNATE PRICING FOR FULL REMOVAL. SEE NOTE 7.

EXISTING WATER STUB TO BE REMOVED (TYP.) SEE NOTE 6.

EXISTING FIRE HYDRANT TO BE RELOCATED OUTSIDE OF PROPOSED MULTI-USE PATH

EXISTING WATER LATERALS TO REMAIN FOR IRRIGATION ANF DOMESTIC USE (TYP. OF 2)

EXISTING SANITARY SEWER LATERAL AND CLEANOUT TO REMAIN FOR PROPOSED RESTROOM BUILDING

EXISTING CURB TO BE RMEOVED TO EXTENTS SHOWN FOR NE PARKING DRIVE ND WIDENING OF EXISTING BRINDLEY COURT FOR TWO WAY TRAFFIC

EXISTING WALL TO BE REMOVED

EXISTING PAVEMENT AND CURB AND GUTTER TO BE REMOVED.

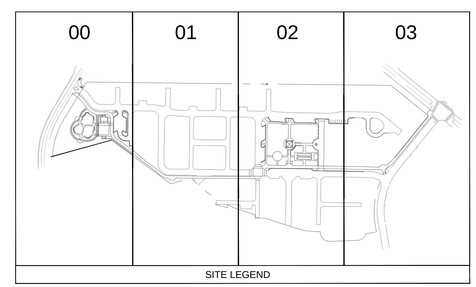
EXISTING WALL TO BE REMOVED

EXISTING STORM INLET TO BE REMOVED AND REPLACED WITH NEW GDOT 1034D AT NEW CURBLINE. SEE SHEET C4-00.

EXISTING STORM INLET TO BE REPLACED WITH STD MANHOLE COVER TOP. THIS STORM IMPROVEMENT TO BE PART OF JOHN WIELAND HOMES SCOPE OF WORK.

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

UTILITIES PROTECTION CENTER, INC.
1 (800) 282-7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325-5000



NORTH

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0 10 20 40

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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

DEMOLITION PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET -
ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C2-00

Drawing name: K:\ATL_LIRC\019124002_Dunwoody Ren Parks\CAD\CONSTR\C2-00_DEMO.dwg C2-00 Jan 16, 2013 4:15pm by: aaron.kegg
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- REMOVE OBJECT
- REMOVE CONCRETE, CURB AND GUTTER
- REMOVE ASPHALT PAVEMENT
- REMOVE UTILITIES & FENCING
- REMOVE STRUCTURE
- X REMOVE TREE

REPLACED TOP. THIS PART OF OF WORK:

EXISTING WALL TO BE REMOVED AS PART OF JOHN WIELAND HOMES SCOPE. CONTRACTOR TO COORDINATE WITH OWNER.

EXISTING PAVEMENT AND CURB TO BE REMOVED AS PART OF JOHN WIELAND HOMES SCOPE. CONTRACTOR TO COORDINATE WITH OWNER.

EXISTING DRAINAGE INLET TO BE RELOCATED TO NEW CURBLINE. THIS STORM IMPROVEMENT TO BE PART OF JOHN WIELAND HOMES SCOPE OF WORK. CONTRACTOR TO COORDINATE WITH OWNER.

EXISTING FIRE HYDRANT TO BE RELOCATED OUTSIDE OF PROPOSED MULTI-USE PATH

EXISTING WATER CONNECTIONS TO BE USED FOR JOHN WIELDAND HOMES TO BE RELOCATED OUTSIDE OF THE MULTI-USE PATH (TYP.)

REMOVE CURB FOR INSTALLATION OF MULTI-PURPOSE PATH CURB RAMPS

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

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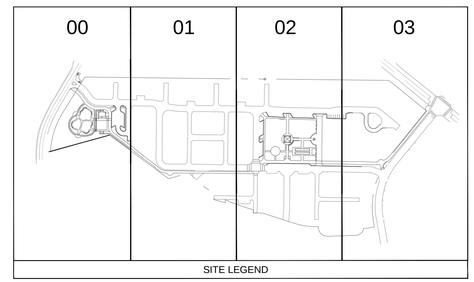

SITE LEGEND

NORTH

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BID SET -
ADDENDUM 1

SCALE (H):	1"=20'
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DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C2-01

Drawing name: K:\ATL_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C2-00_DEMO.dwg C2-01 Jan 16, 2013 4:16pm by: aaron.legg
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EXISTING CURB INLETS TO BE REPLACED WITH GDOT 1019A DRAINAGE INLETS. SEE SHEET C4-00.

8" DIP SEWER LINE TO BE REMOVED AND REPLACED WITH LIKE MATERIAL PER DCDWM STANDARDS DUE TO EXISTING DAMAGES IN LINE SECTION.

EXISTING SEWER LINE TO BE ABANDONED IN PLACE. CONTRACTOR TO PRICE FULL REMOVAL AS ADD ALTERNATE.

AREA= 694,102 Sq Ft 15.9344 Ac.

EXISTING SANITARY SEWER LATERAL TO BE ABANDONED IN PLACE (TYP.) CONTRACTOR TO PROVIDE ADD ALTERNATE PRICING FOR FULL REMOVAL. SEE NOTE 7.

REMOVE EXISTING STORM LINE

REMOVE SANITARY MANHOLE AND CONTINUE EXISTING N-S LINE. EASTERN LINE TO BE REMOVED. SEE NOTE 7

EXISTING SANITARY SEWER LINE TO BE ABANDONED IN PLACE. CONTRACTOR TO PROVIDE ADD ALTERNATE PRICING FOR FULL REMOVAL. NEW MANHOLE REQUIRED AND UPSTREAM END OF REMAINING LINE. SEE NOTE 7.

INSERT JUNCTION BOX. SEE SHEET C4-02 FOR DETAILS.

EXISTING CURB AND PAVEMENT TO BE REMOVED TO EXTENTS SHOWN FOR PARK IMPROVEMENTS

EXISTING WATER CONNECTION TO BE REMOVED (TYP.) SEE NOTE 7.

EXISTING SANITARY SEWER LATERAL AND CLEANOUT TO REMAIN FOR PROPOSED RESTROOM BUILDING

SEWER LINE TO BE PROTECTED DURING CONSTRUCTION

EXISTING WATERLINE TO BE ABANDONED IN PLACE. CONTRACTOR TO PRICE FULL REMOVAL AS ADD ALTERNATE. SEE NOTE 7.

APPROXIMATE LOCATION OF WATERLINE (TYP.)

LIMITS OF SAWCUT. REMOVE ASPHALT PAVEMENT ONLY. SUB BASE TO REMAIN.

APPROX LOCATION BURRIED MANHOLE

EXISTING WATER CONNECTIONS TO BE RELOCATED OUTSIDE OF THE MULTI-USE PATH FOR USE BY JOHN WIELAND HOMES (TYP.)

POSSIBLE 20' SANITARY SEWER EASEMENT

WATER STUB UP (TYP)

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MANNING WALK

FERGUS WAY

ROADWAY (COMMON ELEMENT)

BRAMBLE PLACE

POINTE PLACE AVE.

UTILITIES PROTECTION CENTER, INC.
1 (800) 282-7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325-5000

00	01	02	03

SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSMCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSMCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSMCC RESUBMITTAL	01/14/13	BWS
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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

DEMOLITION PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET -
ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C2-02

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren. Parks\CADD\CONSTR\C2-00_DEMO.dwg C2-02 Jan 16, 2013 4:16pm by: aaron.legg
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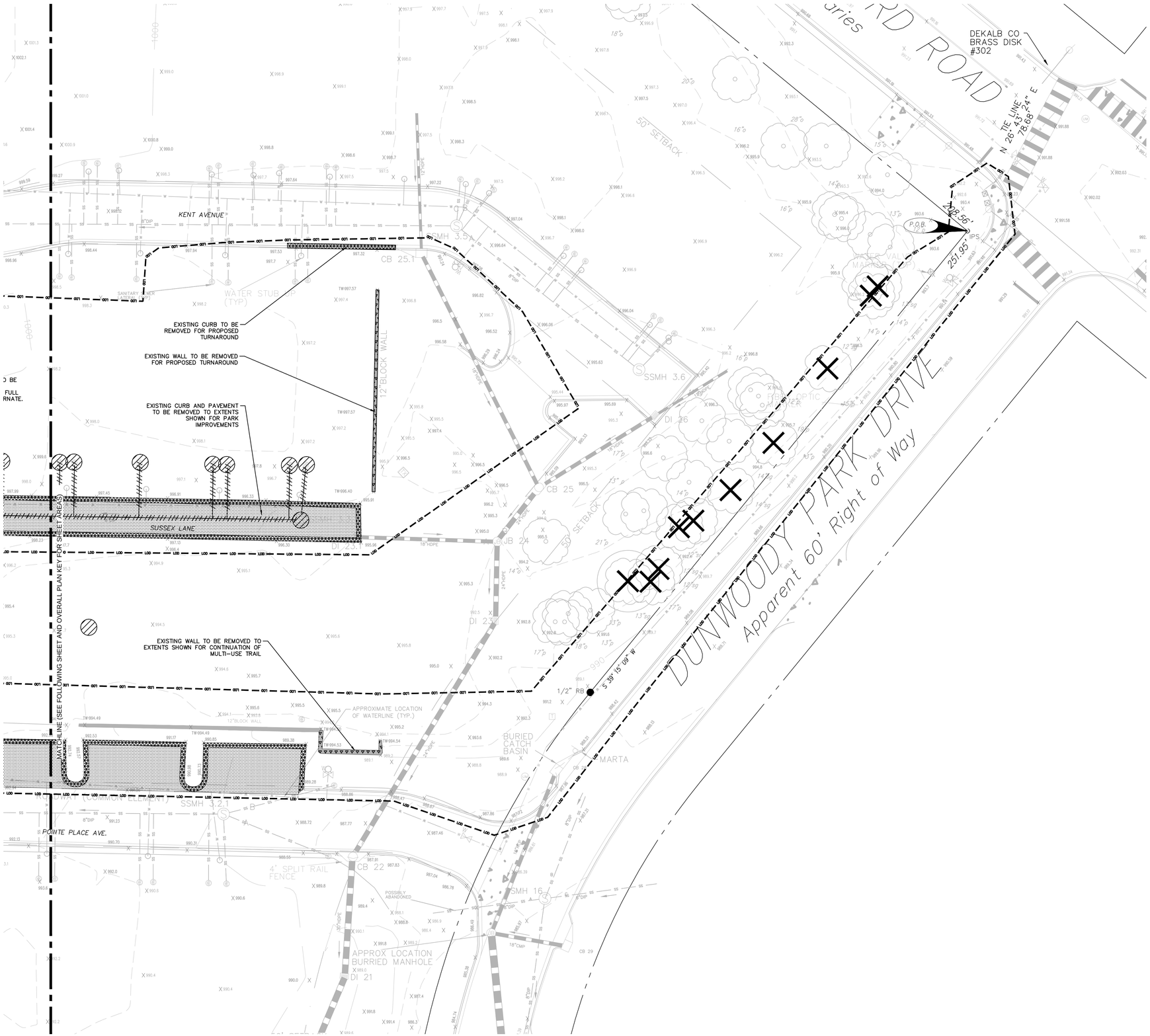

DEMOLITION NOTES:

1. CONTRACTOR SHALL CONTROL DUST LEAVING THE SITE DURING DEMOLITION AND CONSTRUCTION.
2. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION AND RELOCATION WITH APPROPRIATE UTILITY PROVIDER.
3. CONTRACTOR SHALL PROTECT SURROUNDING BUILDING UTILITY SERVICES DURING CONSTRUCTION AND COORDINATE ALL SERVICE IMPACTS WITH OWNER.
4. NO GRADED SLOPE SHALL EXCEED 2H:1V.
5. FOR DEMOLITION DEBRIS, THE EXISTING CONCRETE AND ASPHALT SECTIONS OF THE PROPERTY WERE ASSUMED TO BE 16" AND 12' THICK, RESPECTIVELY. BUILDING WALL AND SLAB THICKNESS WERE ASSUMED TO BE 12" CONCRETE.
6. ALL WATER AND SEWER ABANDONEMENT /DEMOLITION WORK SHALL BE PROPERLY CUT CAPPED AND FILLED IN ACCORDANCE WITH DEKALB COUNTY DEPARTMWENT OF WATERSHED MANAGEMENT DESIGN STANDARDS 2009 EDITION, VERSION 1.0.

DEMOLITION LEGEND:

- REMOVE OBJECT
- REMOVE CONCRETE, CURB AND GUTTER
- REMOVE ASPHALT PAVEMENT
- REMOVE UTILITIES & FENCING
- REMOVE STRUCTURE
- X REMOVE TREE

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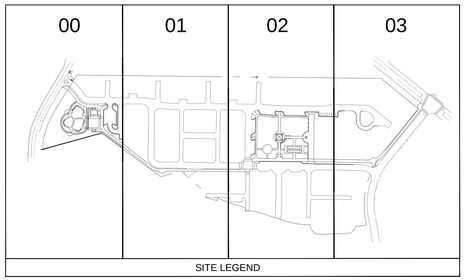

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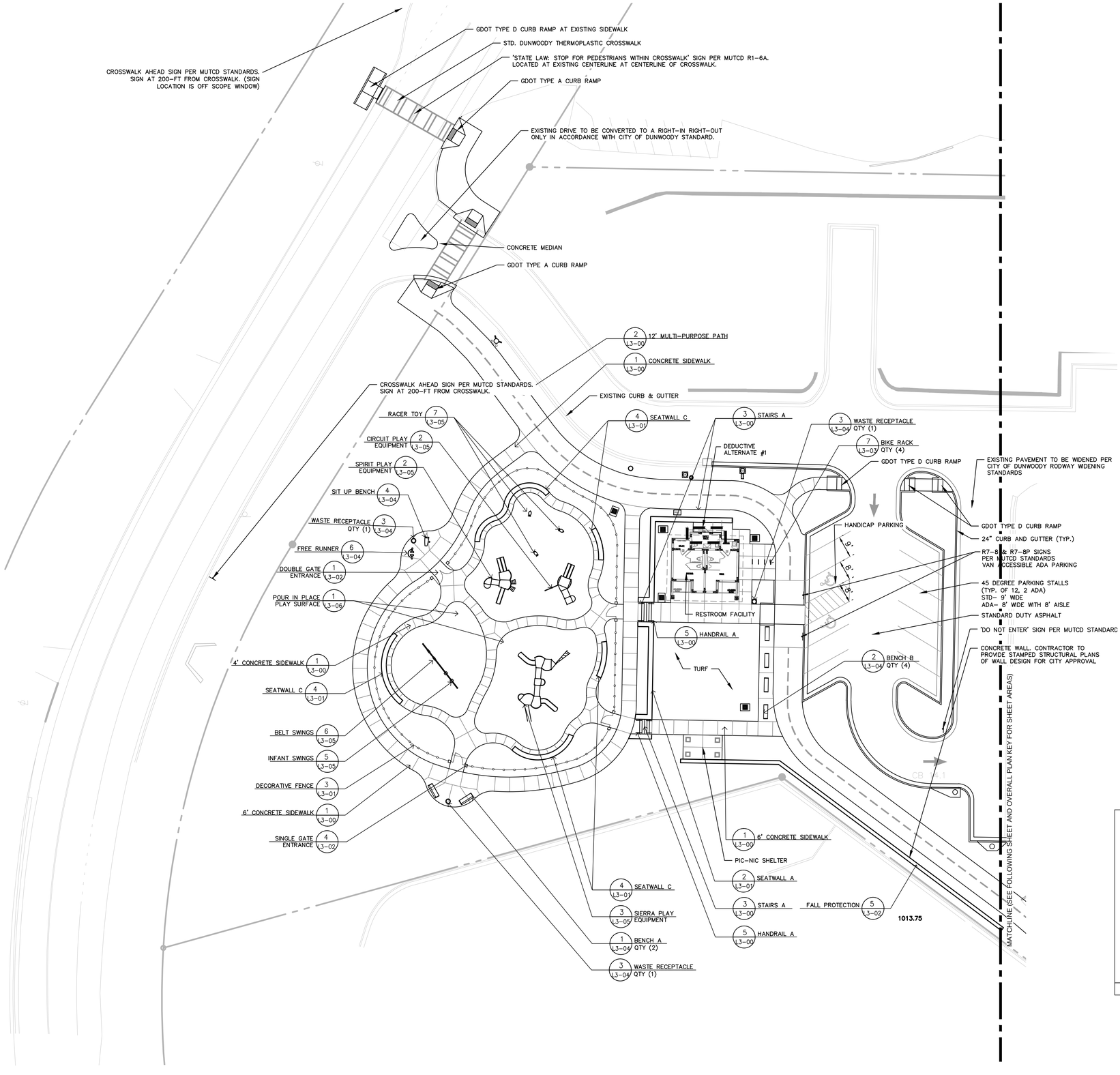

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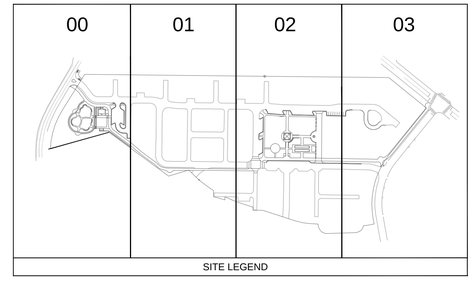

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KHA PROJECT NO.:	019124002

SHEET NUMBER
C3-00

Drawing name: K:\AMT_URO\019124002_Dunwoody Ren Parks\CADD\CONSTR\C3-00_SITE.dwg C3-01 Jan 16, 2013 4:16pm by: aaron.legg
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MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

SIT UP BENCH 4 / L3-04

CYCLE TRAINER 4 / L3-04

2 / L3-00 10' MULTI-PURPOSE PATH

GDOT TYPE D CURB RAMP (TYP. OF 2)

8' CONCRETE MULTI-PURPOSE PATH

PLANTER QTY (3)

7 / L3-04 REMOVABLE BOLLARDS QTY (3)

3 / L3-04 WASTE RECEPTACLE QTY (1)

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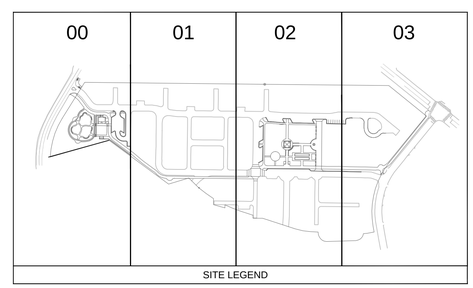

SITE LEGEND

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SHEET NUMBER
C3-01

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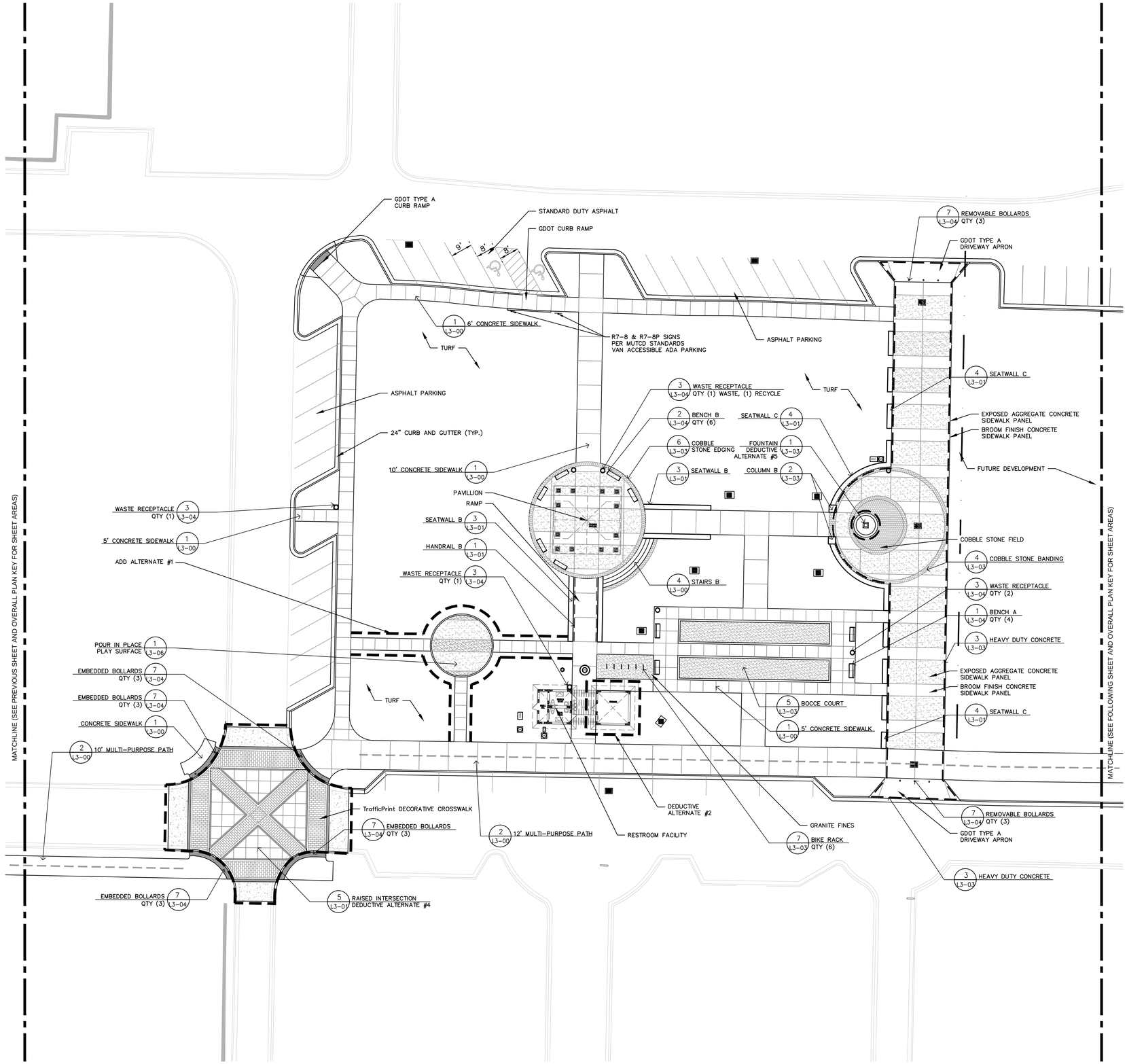

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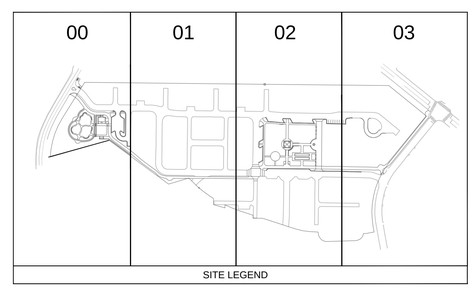

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KHA PROJECT NO.:	019124002

SHEET NUMBER
C3-02

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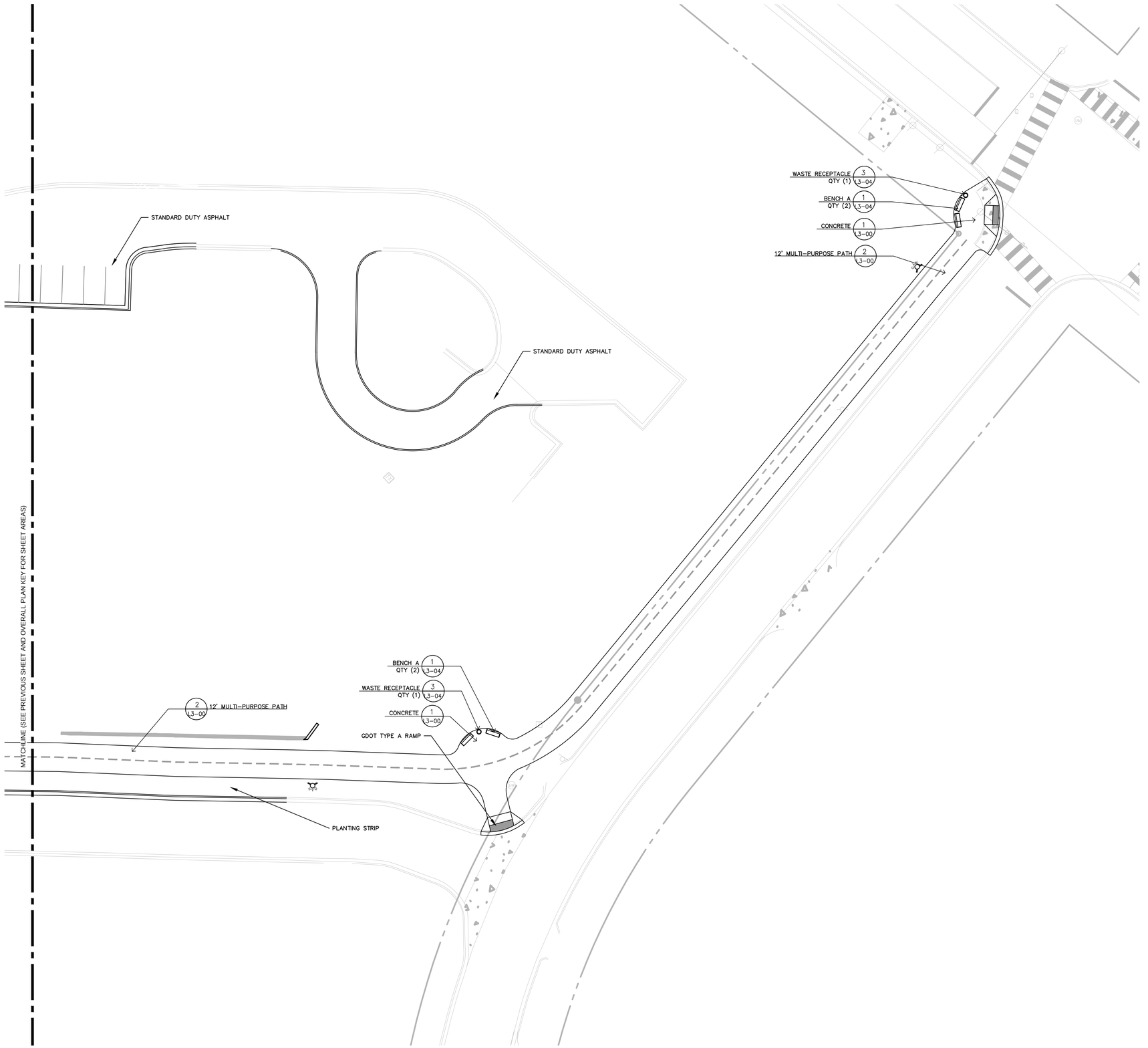

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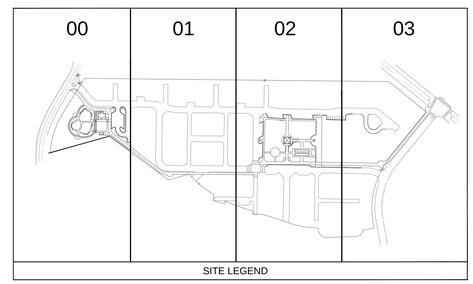

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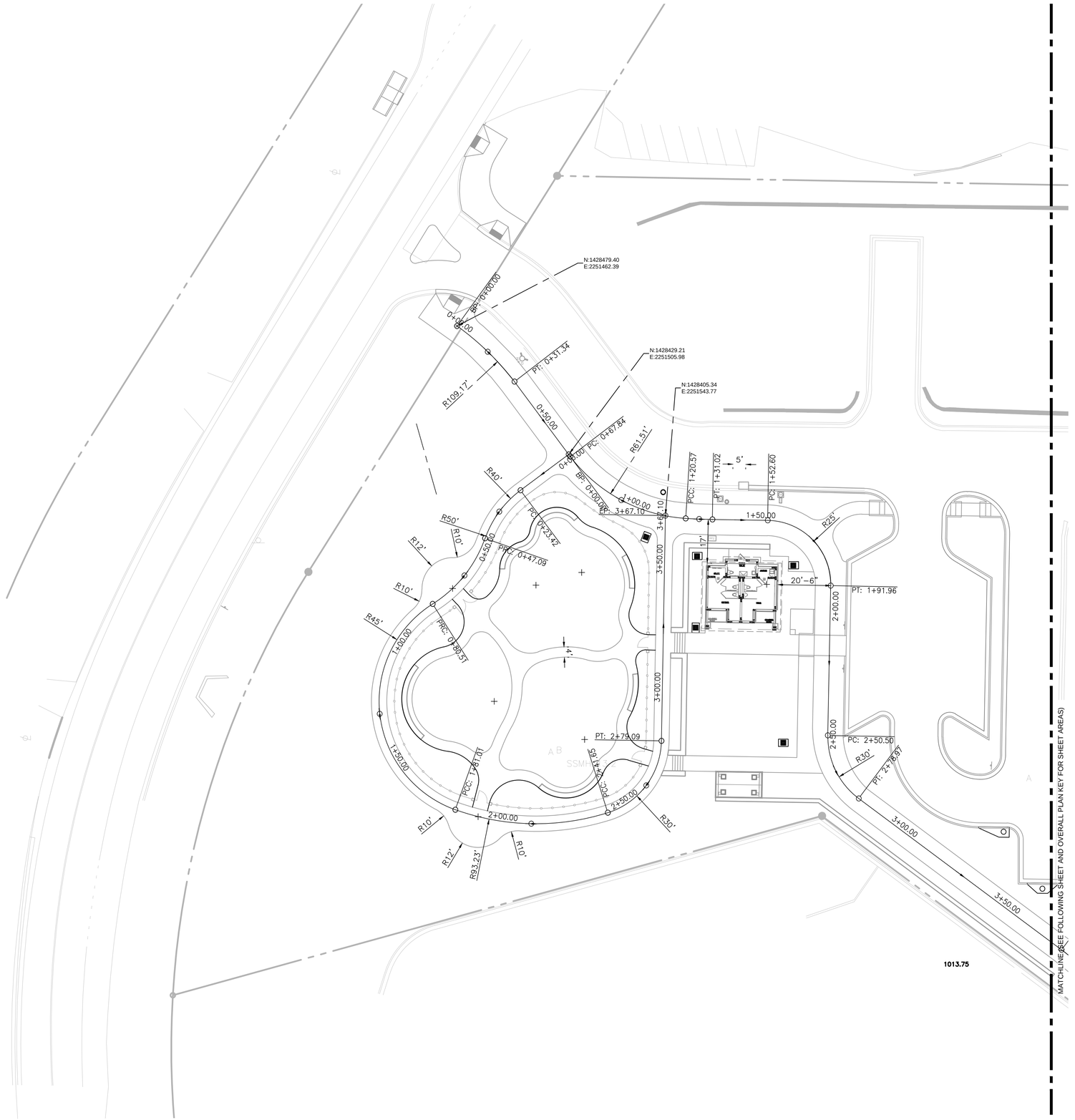

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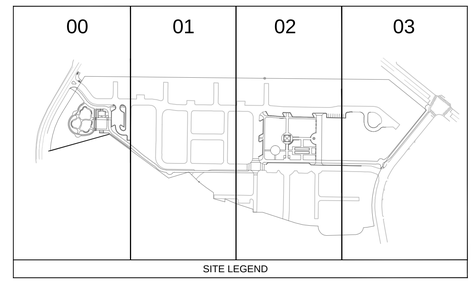

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GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

LAYOUT PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET -
ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002
SHEET NUMBER	C3-10

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Drawing name: K:\ATL_LRO\019124002_Dunwoody Ren Parks\CADD\CONSTR\C4-00_LAYOUT.dwg C3-11 Jan 16, 2013 4:16pm by: apron.legg



SITE PLAN NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR BUILDING LAYOUT.
2. A 42" GUARDRAIL IS REQUIRED AT ALL RETAINING WALLS WITH A HEIGHT OF 30" OR GREATER.
3. CONTRACTOR TO CONTACT ENGINEER IF PROPOSED PAVEMENT SECTIONS DIFFER FROM EXISTING PAVEMENT SECTIONS.

TRANSPORTATION NOTES:

1. NEW PAVEMENT/SURFACING IS REQUIRED ACROSS ALL PROPERTY FRONTAGES TO EXISTING CENTERLINE, TO BE INSTALLED PER DUNWOODY STANDARD DETAILS OR AS ADDITIONALLY DIRECTED BY DUNWOODY TRAFFIC ENGINEER.
2. ALL TRAFFIC CONTROL AND WARNING DEVICES MUST BE SHOWN AND PLACED PER MUTCD.
3. TEMPORARY TRAFFIC CONTROL AND WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROAD IMPROVEMENTS WORK ON CITY ROADS AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK
4. ALL SIGNS SHALL CONFORM TO THE MUTCD STANDARDS AND DUNWOODY FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
5. STRIPING (WHITE AND YELLOW) AND ARROW MARKING SHALL BE APPLIED USING GDOT STANDARDS FOR THERMOPLASTIC STRIPING
6. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED BY DUNWOODY TRAFFIC ENGINEER.
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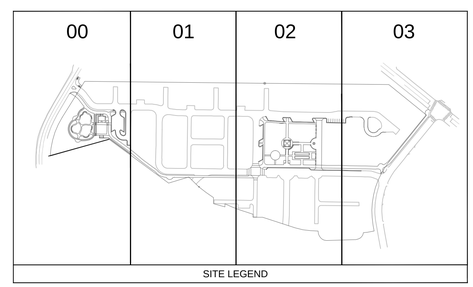
8. CONTACT CITY OF DUNWOODY PUBLIC WORKS (678-382-6700) ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.

811 Know what's below. Call before you dig.



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Drawing name: K:\AMT_URC\019124002_Dunwoody Ren Parks\CADD\CONSTR\C4-00_LAYOUT.dwg C3-12 Jan 16, 2013 4:16pm by: aaron.legg
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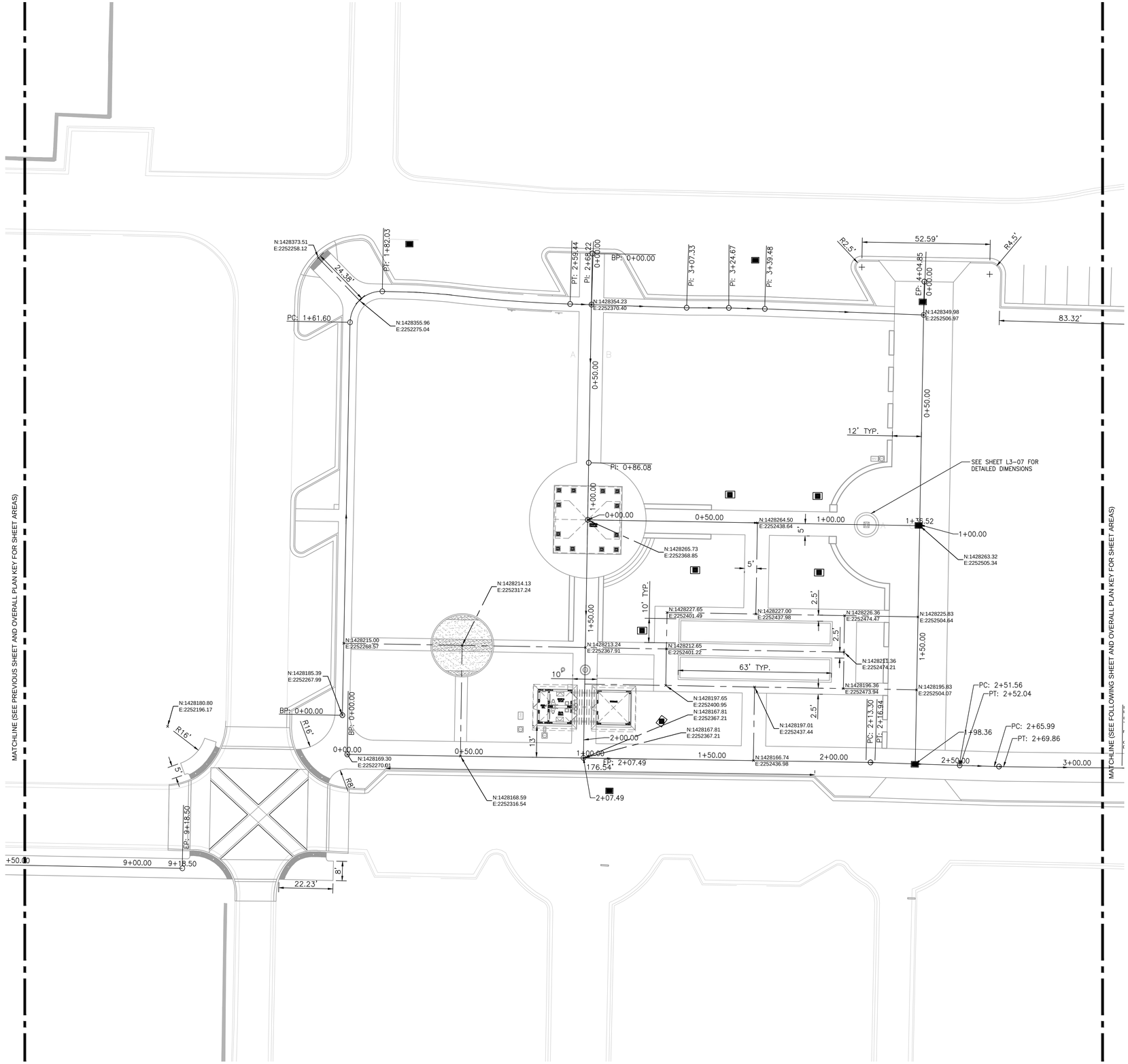

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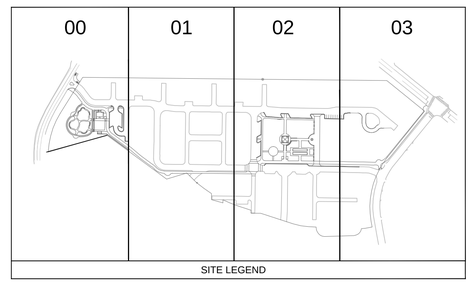

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SHEET NUMBER
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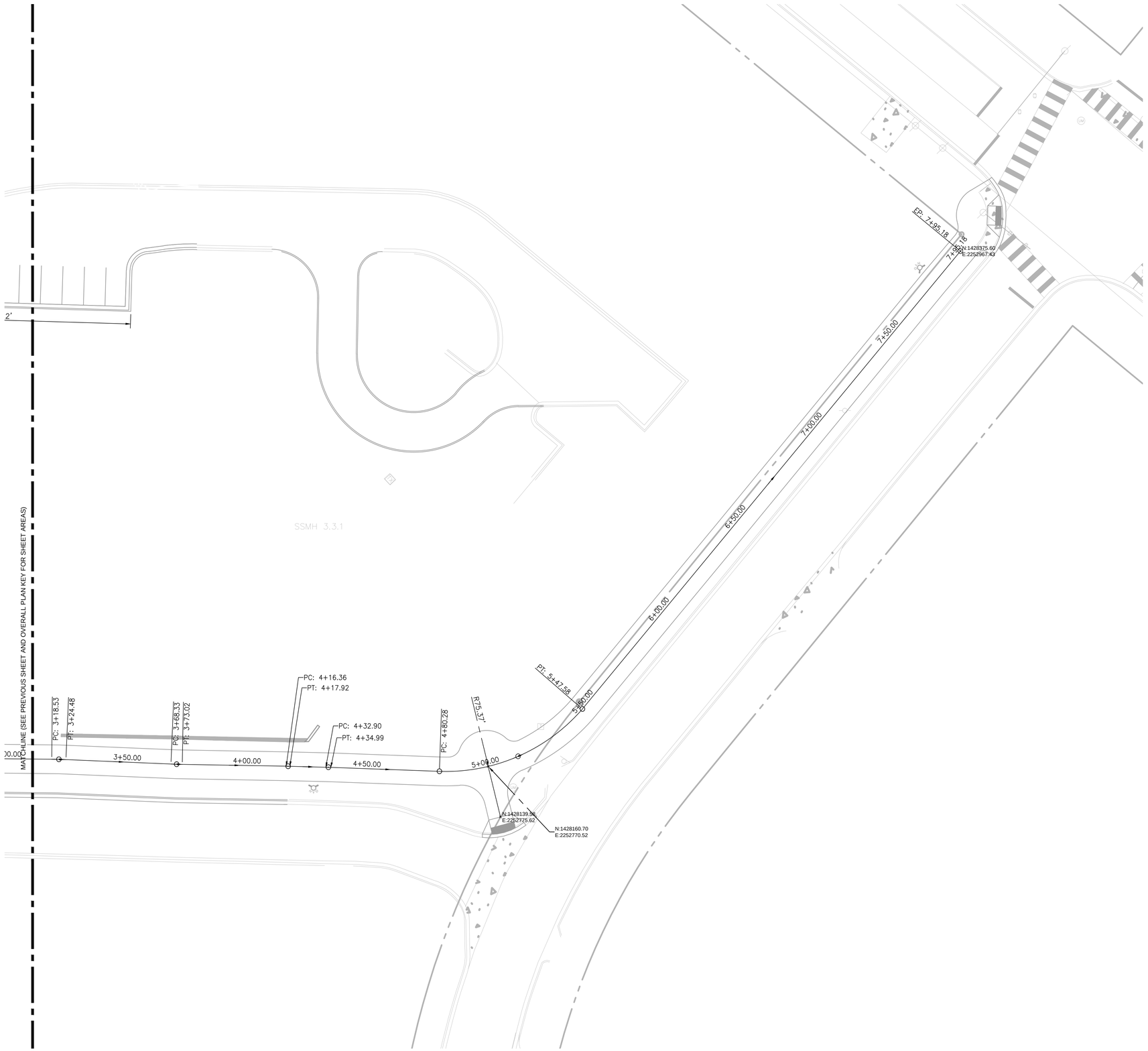

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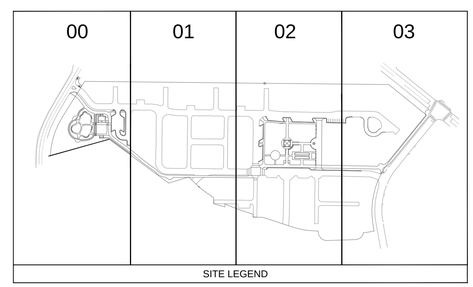

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SHEET NUMBER
C3-13

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren. Parks\CADD\CONSTR\C4-00_LAYOUT.dwg C3-13 Jan 16, 2013 4:16pm by: aaron.legg
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Drawing name: K:\AMT_UR0\019124002_Dunwoody Ren Parks\CADD\CONSTR\C5-00_GRADING.dwg C5-00 Jan 16, 2013 4:17pm by: aaron.legg
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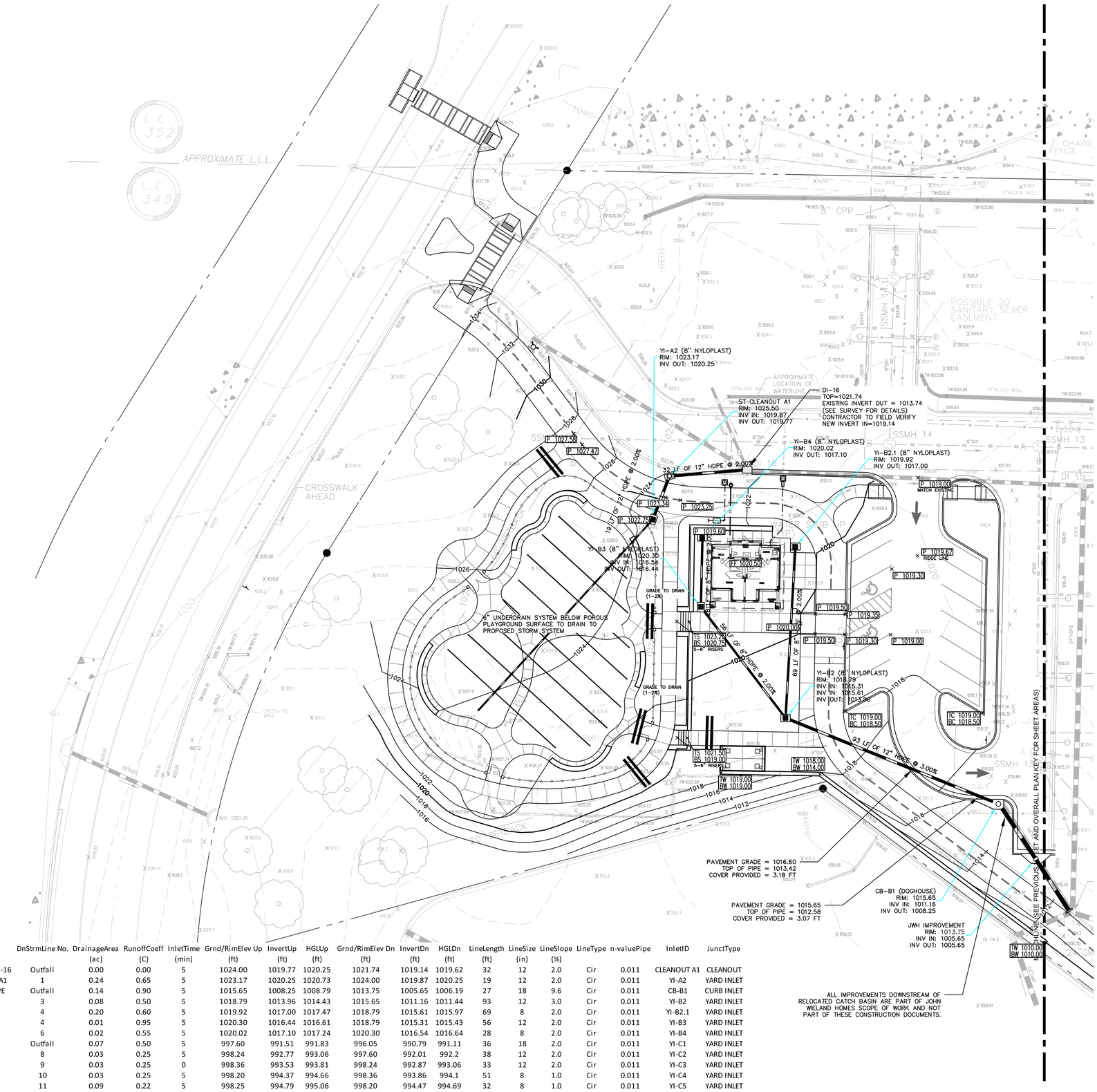

APPROXIMATE L.L.L.
L.L. 352
L.L. 345
CROSSWALK AHEAD
Y1-A2 (8" NYLOPLAST)
RIM: 1023.17
INV OUT: 1020.25
ST: CLEANOUT A1
RIM: 1025.50
INV IN: 1019.87
INV OUT: 1019.77
DI-16
TOP=1021.74
EXISTING INVERT OUT = 1013.74
(SEE SURVEY FOR DETAILS)
CONTRACTOR TO FIELD VERIFY
NEW INVERT IN=1019.14
Y1-B4 (8" NYLOPLAST)
RIM: 1020.02
INV OUT: 1017.10
Y1-B2.1 (8" NYLOPLAST)
RIM: 1019.92
INV OUT: 1017.00
32 LF OF 12" HDPE @ 2.00%
19 LF OF 8" HDPE @ 2.00%
Y1-B3 (8" NYLOPLAST)
RIM: 1020.35
INV IN: 1016.54
INV OUT: 1016.44
6" UNDERDRAIN SYSTEM BELOW POROUS PLAYGROUND SURFACE TO DRAIN TO PROPOSED STORM SYSTEM
GRADE TO DRAIN (1-2%)
56 LF OF 8" HDPE @ 2.00%
69 LF OF 8" HDPE @ 2.00%
Y1-B2 (8" NYLOPLAST)
RIM: 1018.79
INV IN: 1015.31
INV IN: 1015.61
INV OUT: 1015.56
93 LF OF 12" HDPE @ 3.00%
POSSIBLE 20' SANITARY SEWER EASEMENT
APPROXIMATE LOCATION OF WATERLINE
PAVEMENT GRADE = 1016.60
TOP OF PIPE = 1013.42
COVER PROVIDED = 3.18 FT
PAVEMENT GRADE = 1015.65
TOP OF PIPE = 1012.58
COVER PROVIDED = 3.07 FT
CB-B1 (DOGHOUSE)
RIM: 1015.65
INV IN: 1011.16
INV OUT: 1008.25
JWH IMPROVEMENT
RIM: 1013.75
INV IN: 1005.65
INV OUT: 1005.65
ALL IMPROVEMENTS DOWNSTREAM OF RELOCATED CATCH BASIN ARE PART OF JOHN WIELAND HOMES SCOPE OF WORK AND NOT PART OF THESE CONSTRUCTION DOCUMENTS.
SSMH 14
SSMH 13
SSMH 12
SSMH 11
DI 16
DI 15
DI 14-2
DI 13
DI 12
P 1027.58
P 1027.47
P 1023.54
P 1023.25
P 1022.75
P 1019.60
P 1019.00
MATCH EXISTING
P 1019.67
RIDGE LINE
P 1019.30
P 1019.50
P 1019.35
P 1020.00
TC 1019.00
BC 1018.50
TW 1018.00
BW 1014.00
TW 1019.00
BW 1019.00
TW 1010.00
BW 1010.00
INV: 1027.48
INV: 1021.31
INV: 1027.48
INV: 1027.48
INV: 1027.48

GRADING NOTES:

1. NO GRADED SLOPE SHALL EXCEED 2H:1V.
2. THE SITE IS NOT LOCATED WITHIN A FEMA FLOOD HAZARD AREA. REFER TO FEMA FIRM MAP NUMBER 13089C0016H AND 13089C0016H DATED MAY 7, 2001.
3. SEE SHEETS C7–00 FOR STORM SEWER PROFILES.
4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.
5. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

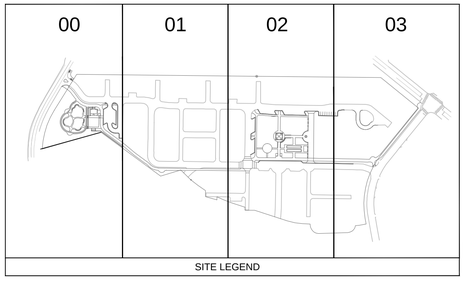
JOSEPH E. DAVIS
Level II Certified Design Professional

CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015

HAUL-OFF NOTE:

ALL SUITABLE EXCESS DIRT IS TO BE HAULED–OFF AND PLACED PER OWNER'S DIRECTION AT BROOK RUN PARK. CONTRACTOR TO PERFORM APPROPRIATE EARTHWORK TAKE–OFFS FOR BID.

UTILITIES PROTECTION CENTER, INC.
1 (800) 282–7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325–5000



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GRADING & DRAINAGE PLAN

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DRAWN BY:	JHP
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Drawing name: K:\ATL_URC\019124002_Dunwoody Ren Parks\CADD\CONSTR\C5-00_GRADING.dwg C5-01 Jan 16, 2013 4:17pm by: ogron.legg
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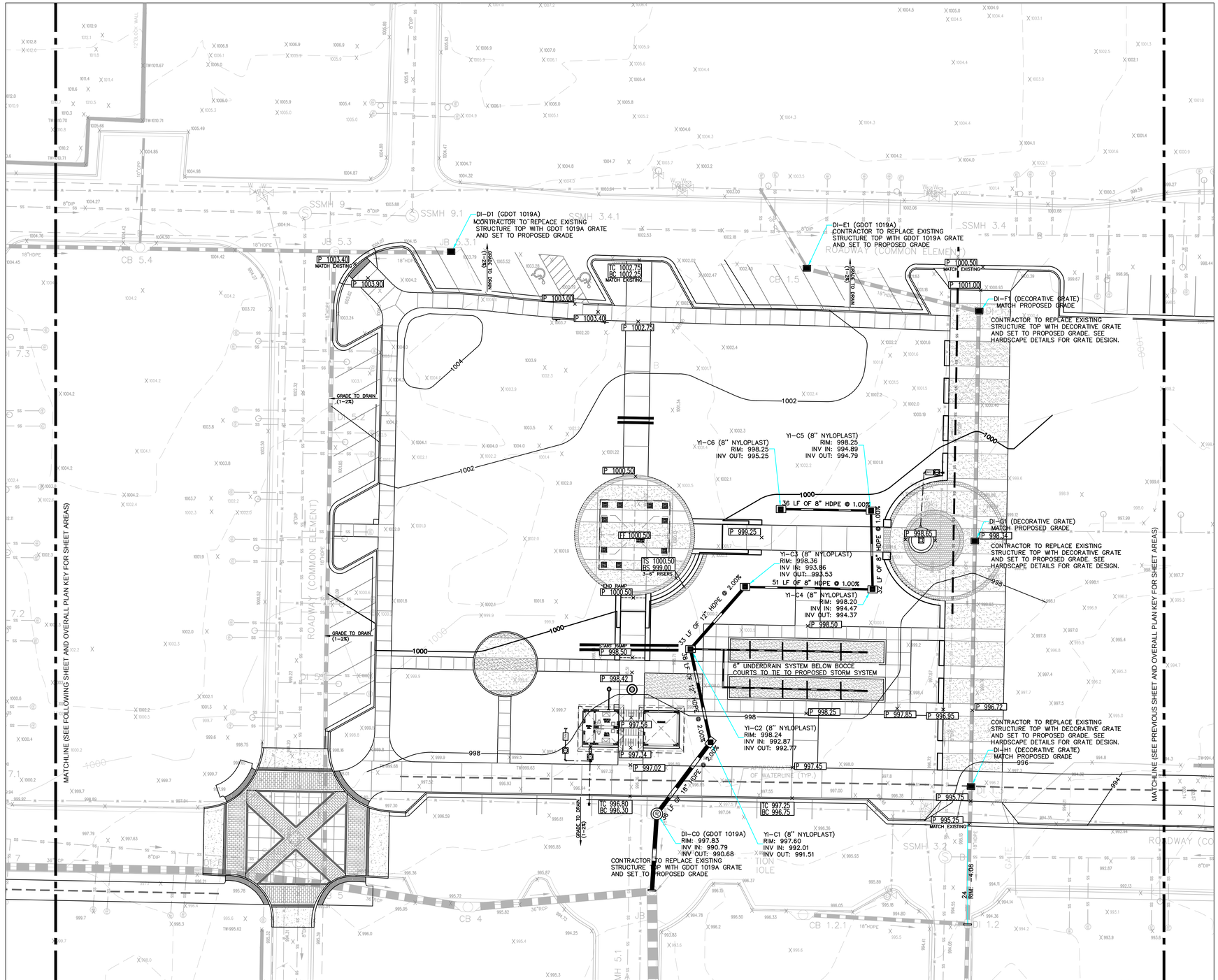

LineNo.	LineID	DnStrmLine No.	DrainageArea (ac)	RunoffCoeff (C)	InletTime (min)	Grnd/RimElev Up (ft)	InvertUp (ft)	HGLUp (ft)	Grnd/RimElev Dn (ft)	InvertDn (ft)	HGLDn (ft)	LineLength (ft)	LineSize (in)	LineSlope (%)	LineType	n-value	Pipe	InletID	JunctType
1	CLEANOUT A1 TO EXDI-16	Outfall	0.00	0.00	5	1024.00	1019.77	1020.25	1021.74	1019.14	1019.62	32	12	2.0	Cir	0.011		CLEANOUT A1	CLEANOUT
2	YI-A2 TO CLEANOUT A1	1	0.24	0.65	5	1023.17	1020.25	1020.73	1024.00	1019.87	1020.25	19	12	2.0	Cir	0.011		YI-A2	YARD INLET
3	CB-B1 TO JWH SCOPE	Outfall	0.14	0.90	5	1015.65	1008.25	1008.79	1013.75	1005.65	1006.19	27	18	9.6	Cir	0.011		CB-B1	CURB INLET
4	YI-B2 TO CB-B1	3	0.08	0.50	5	1018.79	1013.96	1014.43	1015.65	1011.16	1011.44	93	12	3.0	Cir	0.011		YI-B2	YARD INLET
5	YI-B2.1 TO YI-B2	4	0.20	0.60	5	1019.92	1017.00	1017.47	1018.79	1015.61	1015.97	69	8	2.0	Cir	0.011		YI-B2.1	YARD INLET
6	YI-B3	4	0.01	0.95	5	1020.30	1016.44	1016.61	1018.79	1015.31	1015.43	56	12	2.0	Cir	0.011		YI-B3	YARD INLET
7	YI-B4 TO YI-B3	6	0.02	0.55	5	1020.02	1017.10	1017.24	1020.30	1016.54	1016.64	28	8	2.0	Cir	0.011		YI-B4	YARD INLET
8	YI-C1 TO DI-C0	Outfall	0.07	0.50	5	997.60	991.51	991.83	996.05	990.79	991.11	36	18	2.0	Cir	0.011		YI-C1	YARD INLET
9	YI-C2 TO YI-C1	8	0.03	0.25	5	998.24	992.77	993.06	997.60	992.01	992.2	38	12	2.0	Cir	0.011		YI-C2	YARD INLET
10	YI-C3 TO YI-C2	9	0.03	0.25	0	998.36	993.53	993.81	998.24	992.87	993.06	33	12	2.0	Cir	0.011		YI-C3	YARD INLET
11	YI-C4 TO YI-C3	10	0.03	0.25	5	998.20	994.37	994.66	998.36	993.86	994.1	51	8	1.0	Cir	0.011		YI-C4	YARD INLET
12	YI-C5 TO YI-C4	11	0.09	0.22	5	998.25	994.79	995.06	998.20	994.47	994.69	32	8	1.0	Cir	0.011		YI-C5	YARD INLET
13	YI-C6 TO CY-C5	12	0.10	0.22	5	998.25	995.25	995.45	998.25	994.89	995.06	36	8	1.0	Cir	0.011		YI-C6	YARD INLET

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GSWCC Georgia Soil and Water Conservation Commission

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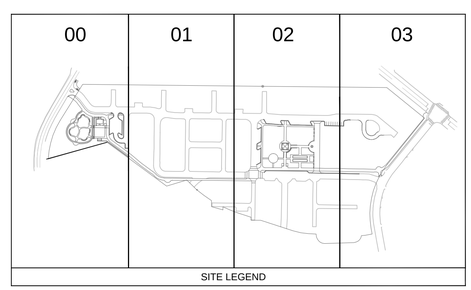
Level II Certified Design Professional
CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015

HAUL-OFF NOTE:

ALL SUITABLE EXCESS DIRT IS TO BE HAULED-OFF AND PLACED PER OWNER'S DIRECTION AT BROOK RUN PARK. CONTRACTOR TO PERFORM APPROPRIATE EARTHWORK TAKE-OFF'S FOR BID.

UTILITIES PROTECTION CENTER, INC.
1 (800) 282-7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325-5000



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701
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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

GRADING & DRAINAGE PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C4-02

Drawing name: K:\AMT_ulrc\019124002_Dunwoody Ren Parks\CADD\CONSTR\C5-00_GRADING.dwg C5-02 Jan 16, 2013 4:17pm by: aaron.legg
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GRADING NOTES:

1. NO GRADED SLOPE SHALL EXCEED 2H:1V.
2. THE SITE IS NOT LOCATED WITHIN A FEMA FLOOD HAZARD AREA. REFER TO FEMA FIRM MAP NUMBER 13089C0016H AND 13089C0016H DATED MAY 7, 2001.
3. SEE SHEETS C7-00 FOR STORM SEWER PROFILES.
4. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.
5. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional

CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015

HAUL-OFF NOTE:

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00	01	02	03

SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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ATLANTA, GEORGIA 30308-1121
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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

GRADING & DRAINAGE PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C4-03

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Drawing name: K:\ATL_LRC\019124002_Dunwoody Ren Parks\CADD\CONSTR\C5-00_GRADING.dwg C5-03 Jan 16, 2013 4:17pm by: apron.legg

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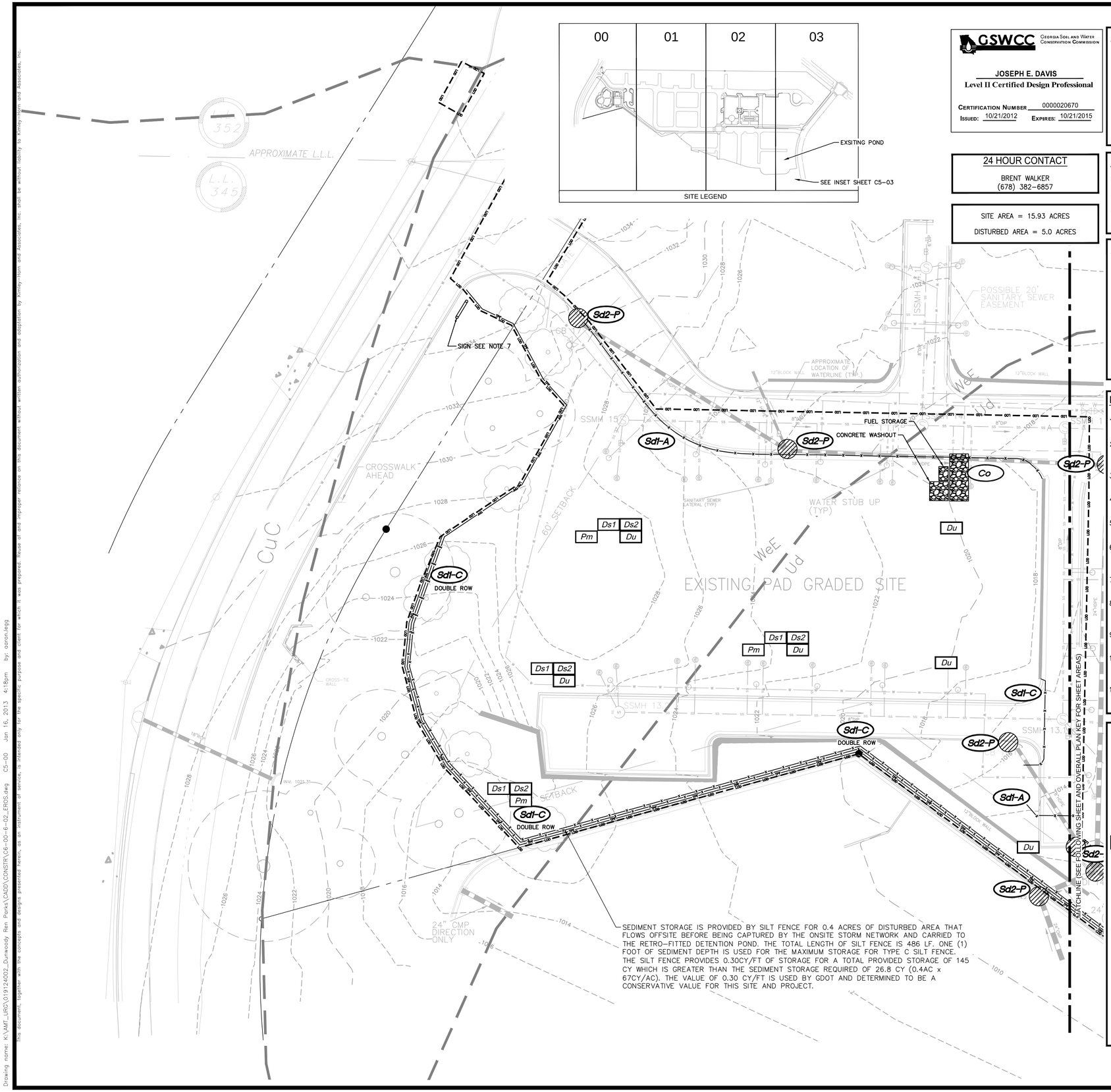
Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C5-00 Jan 16, 2013 4:18pm by: aaron.legg



GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional
CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015

24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

SITE AREA = 15.93 ACRES

DISTURBED AREA = 5.0 ACRES

PROJECT NOTES:

1. SEE SHEET C8-01 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmB.
3. WATERS OF THE STATE EXIST WITHIN 200 FEET OF THE PROJECT SITE AND ARE IMPAIRED AS PER FIRM PANEL NO. 13089C0016H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER.
4. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: DEFUNCT RESIDENTIAL
PROPOSED LAND USE: PARK

EROSION CONTROL PHASE 1 SEQUENCING:

1. INSTALL PERIMETER CONTROLS, INLET PROTECTION, AND RETROFIT IN EXISTING POND.
2. SCHEDULE 7-DAY VISIT WITH DESIGN PROFESSIONAL.
3. REMOVE EXISTING PAVEMENT, CURB AND GUTTER, AND RETAINING WALLS.
4. BEGIN MASS GRADING.

SAMPLING NOTES:

1. UPSTREAM SAMPLES ARE TO BE TAKEN AT EXISTING OUTFALL LABELED SP #1 (SEE C5-01, C5-11, C5-21).
2. DOWNSTREAM SAMPLES ARE TO BE TAKEN DOWNSTREAM OF POND OUTFALL AT SP #2
3. OUTFALL SAMPLING TO BE TAKEN AT DETENTION POND OUTFALL AT SP #3. .
4. UPSTREAM AND DOWNSTREAM TURBIDITY SHALL NOT DIFFER BY MORE THAN 25 NTU.
5. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
6. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
7. SEE SHEETS C5-30 – C5-32 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

EROSION CONTROL NOTES:

1. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.**
2. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
6. CONTRACTOR TO USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT UNDISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE NPDES PERMITS.
7. CONTRACTOR TO PLACE A MINIMUM 4 FT x 8 FT SIGN ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE, AND THE CONTACT PERSON AND TELEPHONE NUMBER.
8. NO MORE THAN 50% OF THE TOTAL PLANNED SITE IS TO BE DISTURBED AT ONE TIME. WORK TO THE SOUTH OF MATCHLINE TO BE COMPLETED AND SITE STABILIZED BEFORE WORK BEGINS ON NORTH SIDE. SEE DEMO SHEETS C2-00-01 FOR MORE INFORMATION
9. APPLY GDOT APPROVED MATTING OR BLANKETS TO ALL SLOPES STEEPER THAN 3:1, SEE C8-00-01 FOR DETAILS.
10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS
11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

EROSION CONTROL LEGEND:

Sd1-C	SILT FENCE TYPE C
Co	CONSTRUCTION EXIT
Sd2-P	INLET SEDIMENT TRAP "PIGS-IN-A-BLANKET"
Sd2-SS	INLET SEDIMENT TRAP "SILT SAVER"
Ds1 | Ds2	DISTURBED AREA STABILIZATION
Du	DUST CONTROL
	LIMITS OF DISTURBANCE (LOD)
Sp	SAMPLING POINT
Rt	RETROFIT
Ds3	DISTURBED AREA STABILIZATION
Sd2-Bf	INLET SEDIMENT TRAP "BAFFLE BOX"
Hb	HAYBALE
Pm	POLYACRYLAMIDE (PAM)

OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382-6700
CONTACT: BRENT WALKER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
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SUITE 601
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	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

EROSION CONTROL PLAN PHASE I

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-00

Soil Series Information

Map Unit: AmB—Appling sandy loam, 2 to 6 percent slopes

APPLING—This very deep, well drained soil is on ridges and side slopes. The subsoil is clayey and extends to a depth greater than 40 inches. Depth to bedrock is greater more than 6 feet. Permeability and available water capacity are moderate.

Map Unit: Ud—Urban land

URBAN LAND—Areas that are mostly business districts, shopping centers, industrial and commercial buildings, private dwellings, schools, churches, parking lots, streets, and sidewalks. The original soils have been altered by grading, cutting, filling, shaping, and smoothing.

Map Unit: WeE—Wedowee sandy loam, 10 to 25 percent slopes

WEDOWEE—This very deep, well drained soil is on uplands. The subsoil is clayey and extends to a depth of 20 to 40 inches. Depth to bedrock is greater than 5 feet. Permeability and available water capacity are moderate.

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional

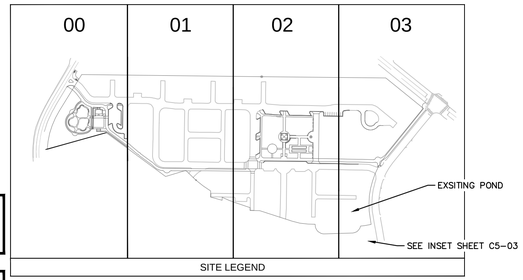
Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

SITE AREA = 15.93 ACRES

DISTURBED AREA = 5.0 ACRES



SITE LEGEND

OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382-6700
CONTACT: BRENT WALKER

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3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
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PROPOSED LAND USE: PARK

SAMPLING NOTES:

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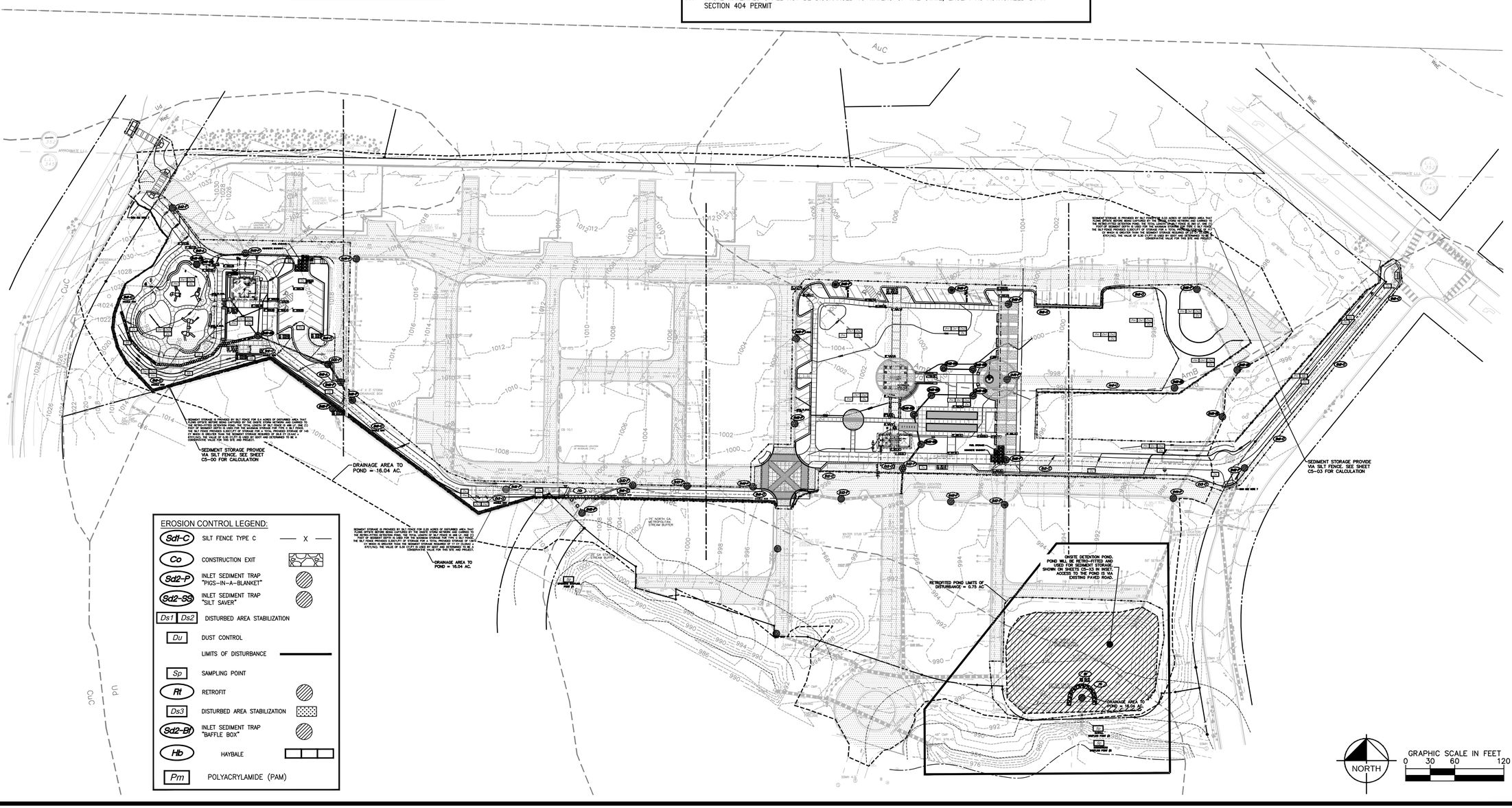

EROSION CONTROL LEGEND:

Sd1-C	SILT FENCE TYPE C
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	LIMITS OF DISTURBANCE
Sp	SAMPLING POINT
Rt	RETROFIT
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Hb	HAYBALE
Pm	POLYACRYLAMIDE (PAM)

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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

OVERALL EROSION CONTROL PLANS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
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SHEET NUMBER
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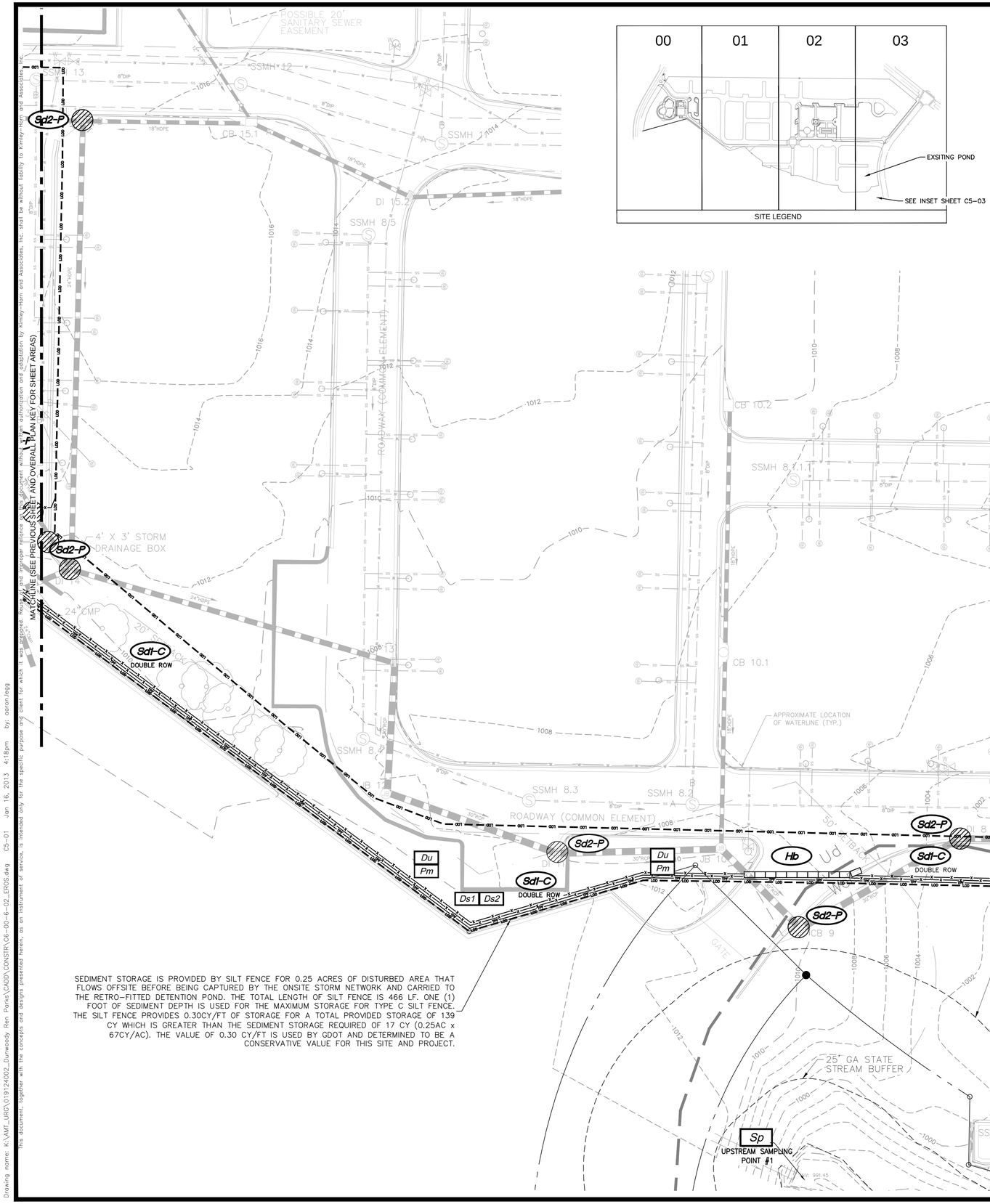

SEDIMENT STORAGE IS PROVIDED BY SILT FENCE FOR 0.25 ACRES OF DISTURBED AREA THAT FLOWS OFFSITE BEFORE BEING CAPTURED BY THE ONSITE STORM NETWORK AND CARRIED TO THE RETRO-FITTED DETENTION POND. THE TOTAL LENGTH OF SILT FENCE IS 466 LF. ONE (1) FOOT OF SEDIMENT DEPTH IS USED FOR THE MAXIMUM STORAGE FOR TYPE C SILT FENCE. THE SILT FENCE PROVIDES 0.30CY/FT OF STORAGE FOR A TOTAL PROVIDED STORAGE OF 139 CY WHICH IS GREATER THAN THE SEDIMENT STORAGE REQUIRED OF 17 CY (0.25AC x 67CY/AC). THE VALUE OF 0.30 CY/FT IS USED BY GDOT AND DETERMINED TO BE A CONSERVATIVE VALUE FOR THIS SITE AND PROJECT.

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional
CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015

24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

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EXISTING LAND USE: DEFUNCT RESIDENTIAL
PROPOSED LAND USE: PARK

EROSION CONTROL PHASE 1 SEQUENCING:

1. INSTALL PERIMETER CONTROLS, INLET PROTECTION, AND RETROFIT IN EXISTING POND.
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4. BEGIN MASS GRADING.

SAMPLING NOTES:

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5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
6. CONTRACTOR TO USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT UNDISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE NPDES PERMITS.
7. CONTRACTOR TO PLACE A MINIMUM 4 FT x 8 FT SIGN ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE, AND THE CONTACT PERSON AND TELEPHONE NUMBER.
8. NO MORE THAN 50% OF THE TOTAL PLANNED SITE IS TO BE DISTURBED AT ONE TIME. WORK TO THE SOUTH OF MATCHLINE TO BE COMPLETED AND SITE STABILIZED BEFORE WORK BEGINS ON NORTH SIDE. SEE DEMO SHEETS C2-00-01 FOR MORE INFORMATION
9. APPLY GDOT APPROVED MATTING OR BLANKETS TO ALL SLOPES STEEPER THAN 3:1, SEE C8-00-01 FOR DETAILS.
10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS
11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

EROSION CONTROL LEGEND:

Sd1-C	SILT FENCE TYPE C
Co	CONSTRUCTION EXIT
Sd2-P	INLET SEDIMENT TRAP "PIGS-IN-A-BLANKET"
Sd2-SS	INLET SEDIMENT TRAP "SILT SAVER"
Ds1 Ds2	DISTURBED AREA STABILIZATION
Du	DUST CONTROL
	LIMITS OF DISTURBANCE — LOD
Sp	SAMPLING POINT
Rt	RETROFIT
Ds3	DISTURBED AREA STABILIZATION
Sd2-Bf	INLET SEDIMENT TRAP "BAFFLE BOX"
Hb	HAYBALE
Pm	POLYACRYLAMIDE (PAM)

OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382-6700
CONTACT: BRENT WALKER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

EROSION CONTROL PLAN PHASE I

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-01

Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C5-01 Jan 16, 2013 4:18pm by: aaron.legg
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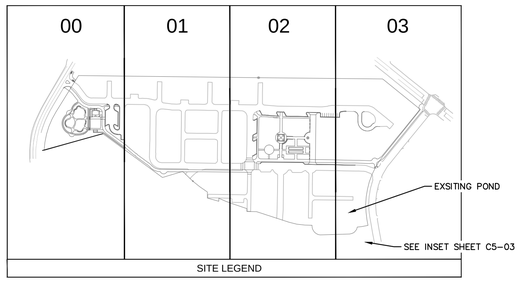

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional

Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

SITE AREA = 15.93 ACRES

DISTURBED AREA = 5.0 ACRES

PROJECT NOTES:

1. SEE SHEET C8-01 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmB.
3. WATERS OF THE STATE EXIST WITHIN 200 FEET OF THE PROJECT SITE AND ARE IMPAIRED AS PER FIRM PANEL NO. 13089C0016H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER.
4. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: DEFUNCT RESIDENTIAL
PROPOSED LAND USE: PARK

EROSION CONTROL PHASE 1 SEQUENCING:

1. INSTALL PERIMETER CONTROLS, INLET PROTECTION, AND RETROFIT IN EXISTING POND.
2. SCHEDULE 7-DAY VISIT WITH DESIGN PROFESSIONAL.
3. REMOVE EXISTING PAVEMENT, CURB AND GUTTER, AND RETAINING WALLS.
4. BEGIN MASS GRADING.

SAMPLING NOTES:

1. UPSTREAM SAMPLES ARE TO BE TAKEN AT EXISTING OUTFALL LABELED SP #1 (SEE C5-01, C5-11, C5-21).
2. DOWNSTREAM SAMPLES ARE TO BE TAKEN DOWNSTREAM OF POND OUTFALL AT SP #2
3. OUTFALL SAMPLING TO BE TAKEN AT DETENTION POND OUTFALL AT SP #3. .
4. UPSTREAM AND DOWNSTREAM TURBIDITY SHALL NOT DIFFER BY MORE THAN 25 NTU.
5. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
6. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
7. SEE SHEETS C5-30 – C5-32 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

EROSION CONTROL NOTES:

1. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.**
2. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR.
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10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS
11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

EROSION CONTROL LEGEND:

- Sd1-C — SILT FENCE TYPE C
- Co — CONSTRUCTION EXIT
- Sd2-P — INLET SEDIMENT TRAP "PIGS-IN-A-BLANKET"
- Sd2-SS — INLET SEDIMENT TRAP "SILT SAVER"
- Ds1 / Ds2 — DISTURBED AREA STABILIZATION
- Du — DUST CONTROL
- LIMITS OF DISTURBANCE — LOD
- Sp — SAMPLING POINT
- Rt — RETROFIT
- Ds3 — DISTURBED AREA STABILIZATION
- Sd2-Bf — INLET SEDIMENT TRAP "BAFFLE BOX"
- Hb — HAYBALE
- Pm — POLYACRYLAMIDE (PAM)

OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382-6700
CONTACT: BRENT WALKER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

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	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

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RENAISSANCE PARKS
DUNWOODY, GA 30346

EROSION CONTROL PLAN PHASE I

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-02

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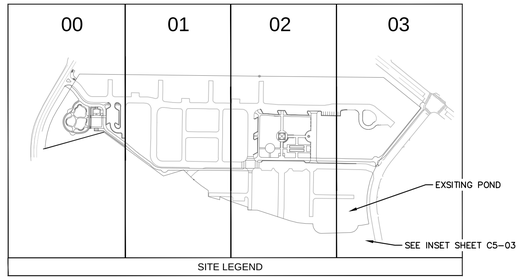
Drawing name: K:\ATL_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C5-02 Jan 16, 2013 4:18pm by: aaron.leag



GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional

CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015

24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

SITE AREA = 15.93 ACRES

DISTURBED AREA = 5.0 ACRES

PROJECT NOTES:

1. SEE SHEET C8-01 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmB.
3. WATERS OF THE STATE EXIST WITHIN 200 FEET OF THE PROJECT SITE AND ARE IMPAIRED AS PER FIRM PANEL NO. 13089C0016H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER.
4. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: DEFUNCT RESIDENTIAL
PROPOSED LAND USE: PARK

EROSION CONTROL PHASE 1 SEQUENCING:

1. INSTALL PERIMETER CONTROLS, INLET PROTECTION, AND RETROFIT IN EXISTING POND.
2. SCHEDULE 7-DAY VISIT WITH DESIGN PROFESSIONAL.
3. REMOVE EXISTING PAVEMENT, CURB AND GUTTER, AND RETAINING WALLS.
4. BEGIN MASS GRADING.

SAMPLING NOTES:

1. UPSTREAM SAMPLES ARE TO BE TAKEN AT EXISTING OUTFALL LABELED SP #1 (SEE C5-01, C5-11, C5-21).
2. DOWNSTREAM SAMPLES ARE TO BE TAKEN DOWNSTREAM OF POND OUTFALL AT SP #2
3. OUTFALL SAMPLING TO BE TAKEN AT DETENTION POND OUTFALL AT SP #3. .
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5. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
6. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
7. SEE SHEETS C5-30 – C5-32 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

EROSION CONTROL NOTES:

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2. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
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5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
6. CONTRACTOR TO USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MULCH TO STABILIZE AREAS LEFT UNDISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1 OF THE NPDES PERMITS.
7. CONTRACTOR TO PLACE A MINIMUM 4 FT x 8 FT SIGN ON THE SITE VISIBLE FROM THE ROADWAY IDENTIFYING THE CONSTRUCTION SITE, THE PERMITTEE, AND THE CONTACT PERSON AND TELEPHONE NUMBER.
8. NO MORE THAN 50% OF THE TOTAL PLANNED SITE IS TO BE DISTURBED AT ONE TIME. WORK TO THE SOUTH OF MATCHLINE TO BE COMPLETED AND SITE STABILIZED BEFORE WORK BEGINS ON NORTH SIDE. SEE DEMO SHEETS C2-00-01 FOR MORE INFORMATION
9. APPLY GDOT APPROVED MATTING OR BLANKETS TO ALL SLOPES STEEPER THAN 3:1, SEE C8-00-01 FOR DETAILS.
10. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS
11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

EROSION CONTROL LEGEND:

Sd1-C	SILT FENCE TYPE C
Co	CONSTRUCTION EXIT
Sd2-P	INLET SEDIMENT TRAP "PIGS-IN-A-BLANKET"
Sd2-SS	INLET SEDIMENT TRAP "SILT SAVER"
Ds1 Ds2	DISTURBED AREA STABILIZATION
Du	DUST CONTROL
	LIMITS OF DISTURBANCE (LOD)
Sp	SAMPLING POINT
Rt	RETROFIT
Ds3	DISTURBED AREA STABILIZATION
Sd2-Bf	INLET SEDIMENT TRAP "BAFFLE BOX"
Hb	HAYBALE
Pm	POLYACRYLAMIDE (PAM)

OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382-6700
CONTACT: BRENT WALKER

SEDIMENT STORAGE IS PROVIDED BY SILT FENCE FOR 0.33 ACRES OF DISTURBED AREA THAT FLOWS OFFSITE BEFORE BEING CAPTURED BY THE ONSITE STORM NETWORK AND CARRIED TO THE RETRO-FITTED DETENTION POND. THE TOTAL LENGTH OF SILT FENCE IS 390 LF. ONE (1) FOOT OF SEDIMENT DEPTH IS USED FOR THE MAXIMUM STORAGE FOR TYPE C SILT FENCE. THE SILT FENCE PROVIDES 0.30CY/FT OF STORAGE FOR A TOTAL PROVIDED STORAGE OF 117 CY WHICH IS GREATER THAN THE SEDIMENT STORAGE REQUIRED OF 23 CY (0.33AC x 67CY/AC). THE VALUE OF 0.30 CY/FT IS USED BY GDOT AND DETERMINED TO BE A CONSERVATIVE VALUE FOR THIS SITE AND PROJECT.

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

SIGN SEE NOTE 7

INSET: SCALE: 1"=30'

GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

Kimley-Horn and Associates, Inc.
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SUITE 601
ATLANTA, GEORGIA 30308-1121
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Fax: (404) 419-8701

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	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
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	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

EROSION CONTROL PLAN PHASE I

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-03

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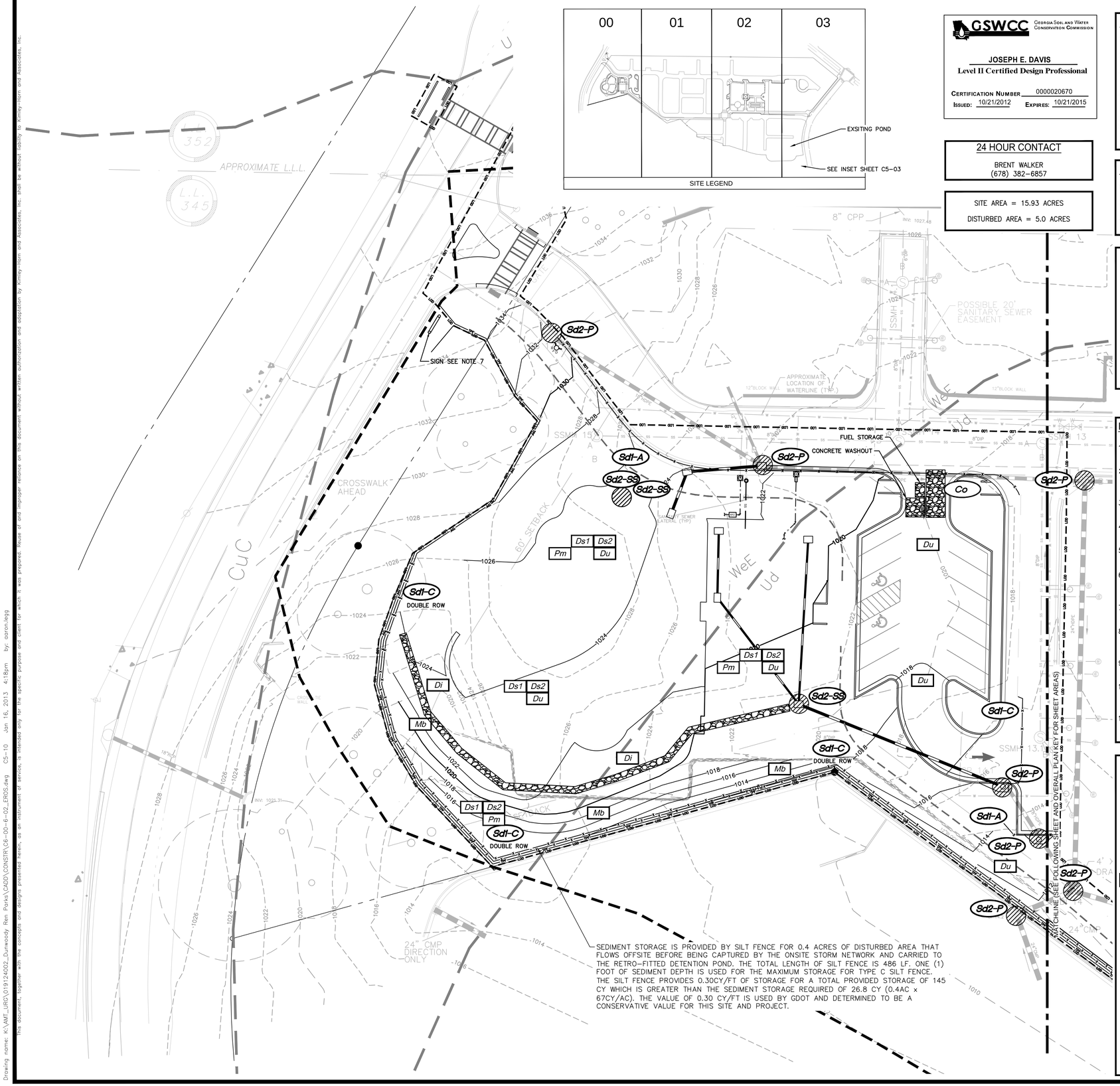
Drawing name: K:\ATL_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C5-03 Jan 16, 2013 4:18pm by: apron.legg



SEDIMENT STORAGE IS PROVIDED BY SILT FENCE FOR 0.4 ACRES OF DISTURBED AREA THAT FLOWS OFFSITE BEFORE BEING CAPTURED BY THE ONSITE STORM NETWORK AND CARRIED TO THE RETRO-FITTED DETENTION POND. THE TOTAL LENGTH OF SILT FENCE IS 486 LF. ONE (1) FOOT OF SEDIMENT DEPTH IS USED FOR THE MAXIMUM STORAGE FOR TYPE C SILT FENCE. THE SILT FENCE PROVIDES 0.30CY/FT OF STORAGE FOR A TOTAL PROVIDED STORAGE OF 145 CY WHICH IS GREATER THAN THE SEDIMENT STORAGE REQUIRED OF 26.8 CY (0.4AC x 67CY/AC). THE VALUE OF 0.30 CY/FT IS USED BY GDOT AND DETERMINED TO BE A CONSERVATIVE VALUE FOR THIS SITE AND PROJECT.

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional
Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

SITE AREA = 15.93 ACRES

DISTURBED AREA = 5.0 ACRES

PROJECT NOTES:

1. SEE SHEET C8-01 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmB.
3. WATERS OF THE STATE EXIST WITHIN 200 FEET OF THE PROJECT SITE AND ARE IMPAIRED AS PER FIRM PANEL NO. 13089C0016H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER.
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EXISTING LAND USE: DEFUNCT RESIDENTIAL
PROPOSED LAND USE: PARK

EROSION CONTROL PHASE 2 SEQUENCING:

1. CONTINUE MASS GRADING OF PROJECT SITE.
2. MAINTAIN EROSION CONTROL BMPs.
3. INSTALL PROPOSED UTILITIES.

SAMPLING NOTES:

1. UPSTREAM SAMPLES ARE TO BE TAKEN AT EXISTING OUTFALL LABELED SP #1 (SEE C5-01, C5-11, C5-21).
2. DOWNSTREAM SAMPLES ARE TO BE TAKEN DOWNSTREAM OF POND OUTFALL AT SP #2
3. OUTFALL SAMPLING TO BE TAKEN AT DETENTION POND OUTFALL AT SP #3. .
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EROSION CONTROL NOTES:

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Du	DUST CONTROL
	LIMITS OF DISTURBANCE (LOD)
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817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

EROSION CONTROL PLAN PHASE II

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-10

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C5-10 Jan 16, 2013 4:18pm by: apron.legg
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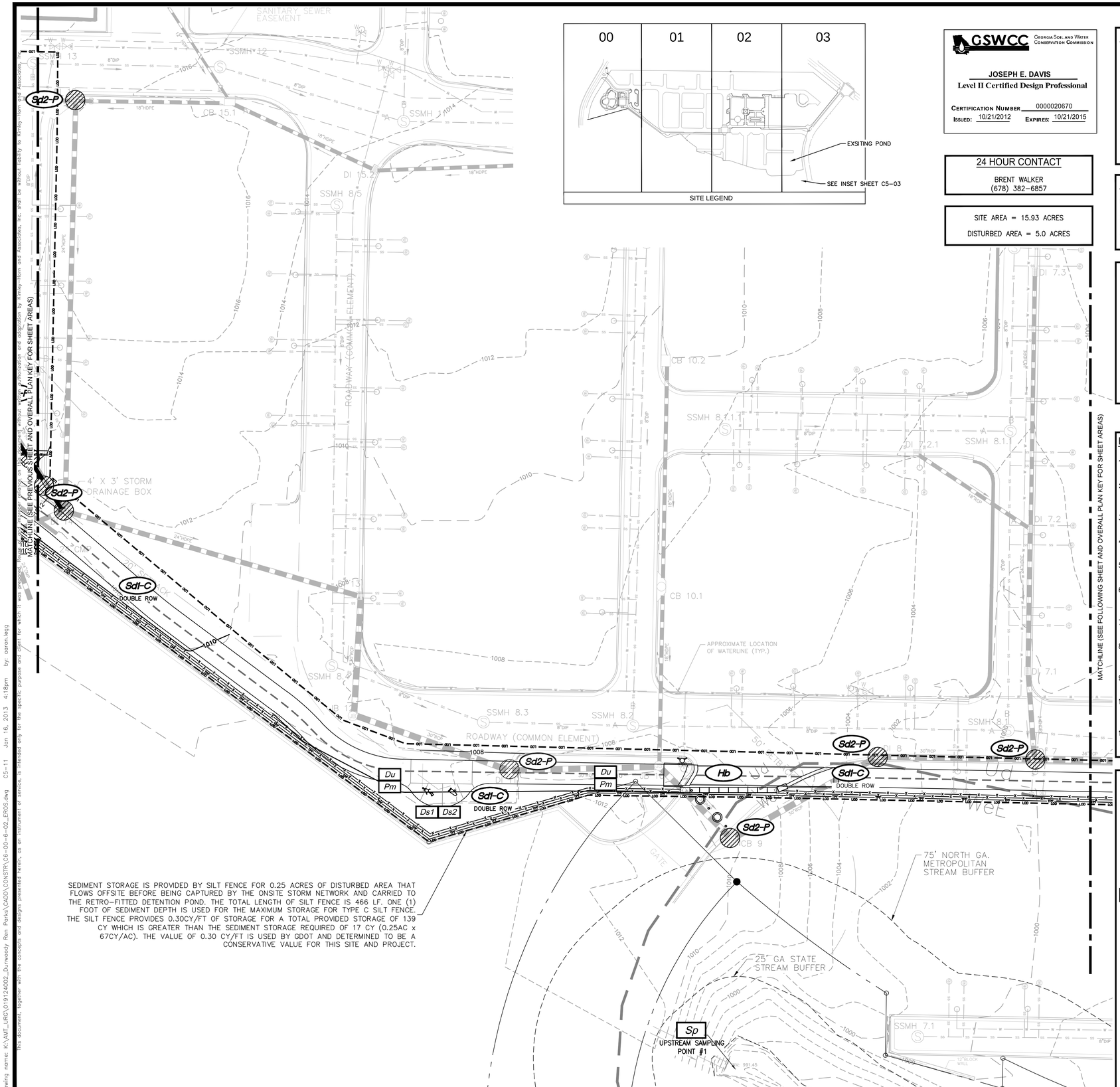

SEDIMENT STORAGE IS PROVIDED BY SILT FENCE FOR 0.25 ACRES OF DISTURBED AREA THAT FLOWS OFFSITE BEFORE BEING CAPTURED BY THE ONSITE STORM NETWORK AND CARRIED TO THE RETRO-FITTED DETENTION POND. THE TOTAL LENGTH OF SILT FENCE IS 466 LF. ONE (1) FOOT OF SEDIMENT DEPTH IS USED FOR THE MAXIMUM STORAGE FOR TYPE C SILT FENCE. THE SILT FENCE PROVIDES 0.30CY/FT OF STORAGE FOR A TOTAL PROVIDED STORAGE OF 139 CY WHICH IS GREATER THAN THE SEDIMENT STORAGE REQUIRED OF 17 CY (0.25AC x 67CY/AC). THE VALUE OF 0.30 CY/FT IS USED BY GDOT AND DETERMINED TO BE A CONSERVATIVE VALUE FOR THIS SITE AND PROJECT.

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional
Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

24 HOUR CONTACT
BRENT WALKER
(678) 382-6857

SITE AREA = 15.93 ACRES
DISTURBED AREA = 5.0 ACRES

PROJECT NOTES:

1. SEE SHEET C8-01 FOR DETAILS AND CALCULATIONS.
2. THE SOIL SERIES FOR THE PROJECT IS Ud, WeE, AND AmB.
3. WATERS OF THE STATE EXIST WITHIN 200 FEET OF THE PROJECT SITE AND ARE IMPAIRED AS PER FIRM PANEL NO. 13089C0016H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER.
4. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: DEFUNCT RESIDENTIAL
PROPOSED LAND USE: PARK

EROSION CONTROL PHASE 2 SEQUENCING:

1. CONTINUE MASS GRADING OF PROJECT SITE.
2. MAINTAIN EROSION CONTROL BMPs.
3. INSTALL PROPOSED UTILITIES.

SAMPLING NOTES:

1. UPSTREAM SAMPLES ARE TO BE TAKEN AT EXISTING OUTFALL LABELED SP #1 (SEE C5-01, C5-11, C5-21).
2. DOWNSTREAM SAMPLES ARE TO BE TAKEN DOWNSTREAM OF POND OUTFALL AT SP #2
3. OUTFALL SAMPLING TO BE TAKEN AT DETENTION POND OUTFALL AT SP #3. .
4. UPSTREAM AND DOWNSTREAM TURBIDITY SHALL NOT DIFFER BY MORE THAN 25 NTU.
5. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
6. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
7. SEE SHEETS C5-30 – C5-32 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

EROSION CONTROL NOTES:

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2. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
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9. APPLY GDOT APPROVED MATTING OR BLANKETS TO ALL SLOPES STEEPER THAN 3:1, SEE C8-00-01 FOR DETAILS.
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EROSION CONTROL LEGEND:

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Sd2-SS	INLET SEDIMENT TRAP "SILT SAVER"
Ds1 Ds2	DISTURBED AREA STABILIZATION
Du	DUST CONTROL
	LIMITS OF DISTURBANCE
Sp	SAMPLING POINT
Rt	RETROFIT
Ds3	DISTURBED AREA STABILIZATION
Sd2-Bf	INLET SEDIMENT TRAP "BAFFLE BOX"
Hb	HAYBALE
Pm	POLYACRYLAMIDE (PAM)

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CONTACT: BRENT WALKER

NORTH
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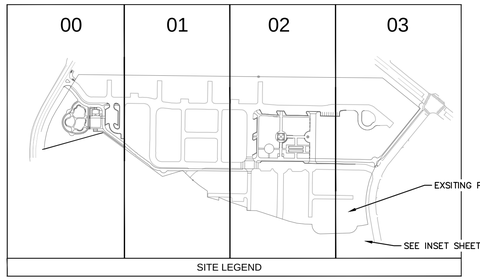

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional

Certification Number 0000020670
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Du	DUST CONTROL
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Pm	POLYACRYLAMIDE (PAM)

OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382–6700
CONTACT: BRENT WALKER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

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EROSION CONTROL PLAN PHASE II

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BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
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DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
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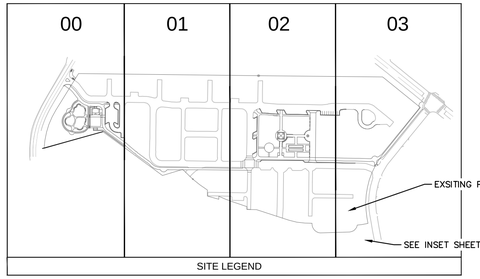

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional

Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

24 HOUR CONTACT

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SITE AREA = 15.93 ACRES

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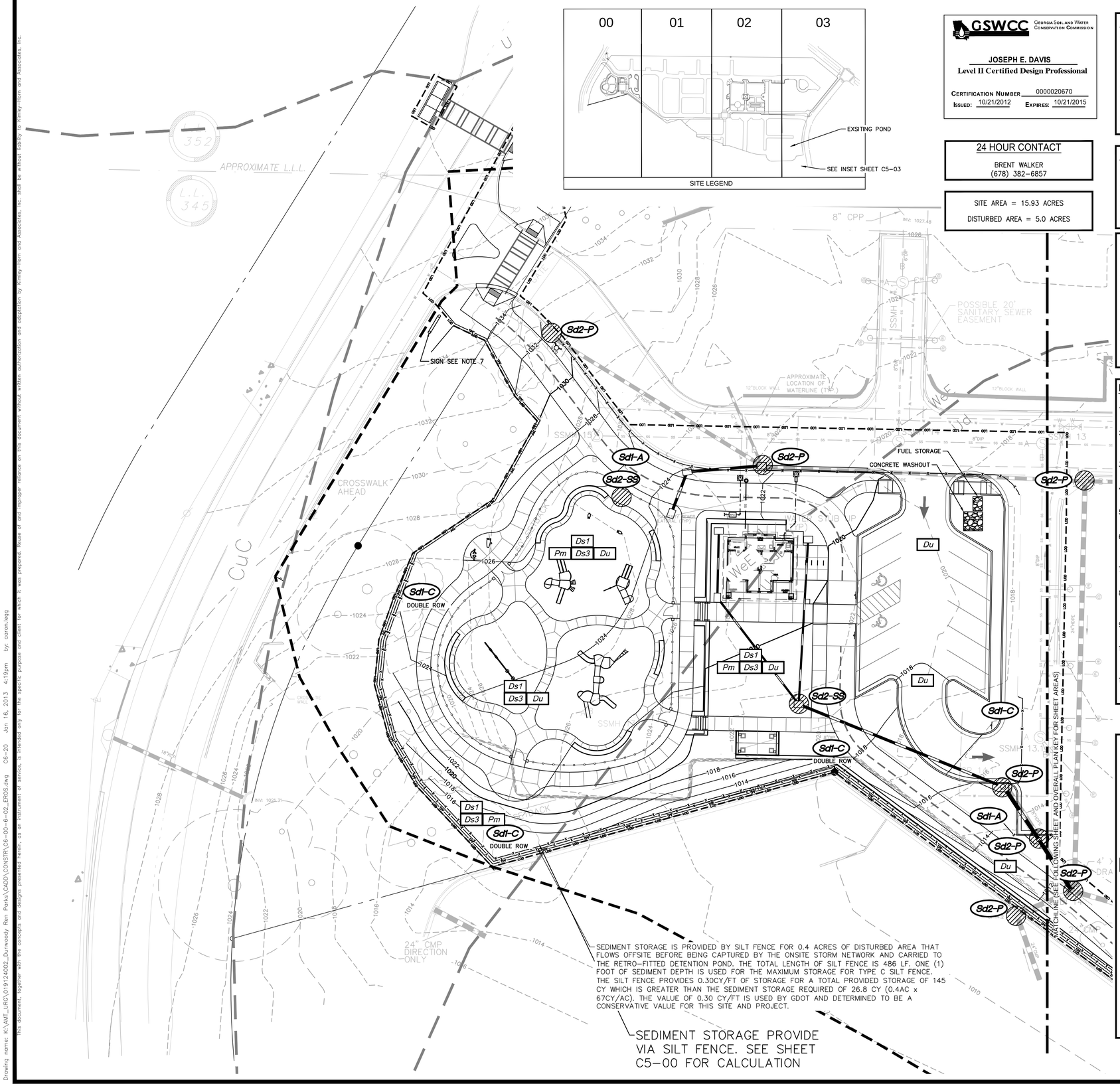

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3. WATERS OF THE STATE EXIST WITHIN 200 FEET OF THE PROJECT SITE AND IS IMPAIRED AS PER FIRM PANEL NO. 13089C0016H AND 13089C0016H AND FIELD VERIFICATION BY THE ENGINEER.
4.
5. PROJECT RECEIVING WATER IS AN UNNAMED TRIBUTARY OF NANCY CREEK. THE TMDL DOES NOT LIST SPECIFIC ITEMS REQUIRED FOR THE SITE.

EXISTING LAND USE: DEFUNCT RESIDENTIAL
PROPOSED LAND USE: PARK

EROSION CONTROL PHASE 3 SEQUENCING:

1. MAINTAIN EROSION CONTROL MEASURES.
2. INSTALL HARDSCAPE.
3. INSTALL LANDSCAPE.
4. REMOVE BMPs ONCE SITE STABILIZATION HAS BEEN APPROVED.

SAMPLING NOTES:

1. UPSTREAM SAMPLES ARE TO BE TAKEN AT EXISTING OUTFALL LABELED SP #1 (SEE #####, #####, #####).
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3. OUTFALL SAMPLING TO BE TAKEN AT DETENTION POND OUTFALL AT SP#3.
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5. OUTFALL SAMPLING TURBIDITY SHALL NOT EXCEED 75 NTU PER APPENDIX B.
6. SAMPLING SHALL BE TAKEN BY THE 'GRAB' METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
7. SEE SHEETS C5-30 – C5-32 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

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3. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION AND BE WIRE REINFORCED.
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Ds1 Ds2	DISTURBED AREA STABILIZATION
Du	DUST CONTROL
	LIMITS OF DISTURBANCE (LOD)
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Ds3	DISTURBED AREA STABILIZATION
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OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382-6700
CONTACT: BRENT WALKER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
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EROSION CONTROL PLAN PHASE III

DUNWOODY
COMMUNITY DEVELOPMENT
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DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002
SHEET NUMBER	C5-20

Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C6-20 Jan 16, 2013 4:19pm by: aaron.legg
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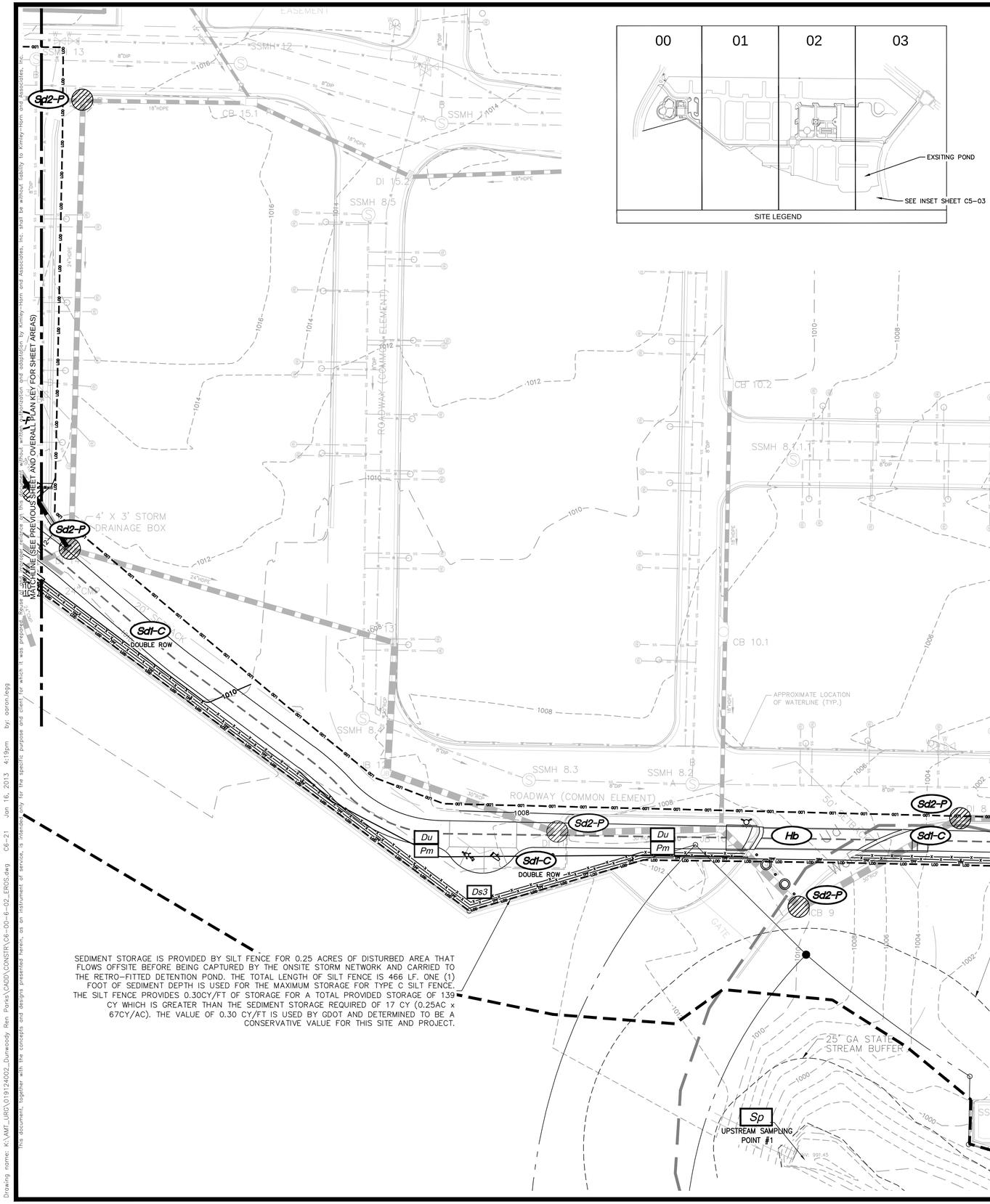

SEDIMENT STORAGE IS PROVIDED BY SILT FENCE FOR 0.25 ACRES OF DISTURBED AREA THAT FLOWS OFFSITE BEFORE BEING CAPTURED BY THE ONSITE STORM NETWORK AND CARRIED TO THE RETRO-FITTED DETENTION POND. THE TOTAL LENGTH OF SILT FENCE IS 466 LF. ONE (1) FOOT OF SEDIMENT DEPTH IS USED FOR THE MAXIMUM STORAGE FOR TYPE C SILT FENCE. THE SILT FENCE PROVIDES 0.30CY/FT OF STORAGE FOR A TOTAL PROVIDED STORAGE OF 139 CY WHICH IS GREATER THAN THE SEDIMENT STORAGE REQUIRED OF 17 CY (0.25AC x 67CY/AC). THE VALUE OF 0.30 CY/FT IS USED BY GDOT AND DETERMINED TO BE A CONSERVATIVE VALUE FOR THIS SITE AND PROJECT.

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional
Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

24 HOUR CONTACT

BRENT WALKER
(678) 382-6857

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BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-21

Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C6-21 Jan 16, 2013 4:19pm by: cpron.leqg
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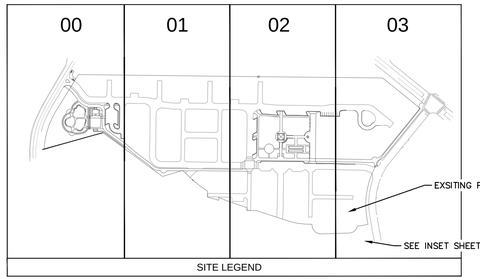

GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional
Certification Number 0000020670
Issued: 10/21/2012 Expires: 10/21/2015

24 HOUR CONTACT

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(678) 382-6857

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OWNER:

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SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382–6700
CONTACT: BRENT WALKER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

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SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-22

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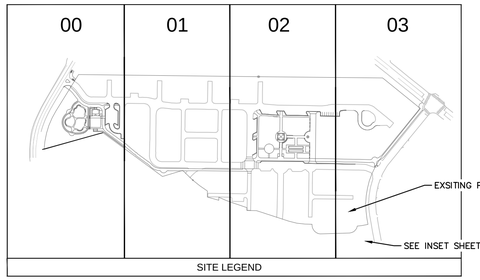

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JOSEPH E. DAVIS
Level II Certified Design Professional

Certification Number 0000020670
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8. NO MORE THAN 50% OF THE TOTAL PLANNED SITE IS TO BE DISTURBED AT ONE TIME. WORK TO THE SOUTH OF MATCHLINE TO BE COMPLETED AND SITE STABILIZED BEFORE WORK BEGINS ON NORTH SIDE. SEE DEMO SHEETS C2–00–01 FOR MORE INFORMATION
9. APPLY GDOT APPROVED MATTING OR BLANKETS TO ALL SLOPES STEEPER THAN 3:1, SEE C8–00–01 FOR DETAILS.
10. NON–EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50–FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS
11. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT

SEDIMENT STORAGE IS PROVIDED BY SILT FENCE FOR 0.33 ACRES OF DISTURBED AREA THAT FLOWS OFFSITE BEFORE BEING CAPTURED BY THE ONSITE STORM NETWORK AND CARRIED TO THE RETRO–FITTED DETENTION POND. THE TOTAL LENGTH OF SILT FENCE IS 390 LF. ONE (1) FOOT OF SEDIMENT DEPTH IS USED FOR THE MAXIMUM STORAGE FOR TYPE C SILT FENCE. THE SILT FENCE PROVIDES 0.30CY/FT OF STORAGE FOR A TOTAL PROVIDED STORAGE OF 117 CY WHICH IS GREATER THAN THE SEDIMENT STORAGE REQUIRED OF 23 CY (0.33AC x 67CY/AC). THE VALUE OF 0.30 CY/FT IS USED BY GDOT AND DETERMINED TO BE A CONSERVATIVE VALUE FOR THIS SITE AND PROJECT.

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

SIGN SEE NOTE 7

INSET: SCALE: 1"=30'

EROSION CONTROL LEGEND:

Sd1-C	SILT FENCE TYPE C	—— X ——
Co	CONSTRUCTION EXIT	
Sd2-P	INLET SEDIMENT TRAP "PIGS–IN–A–BLANKET"	
Sd2-SS	INLET SEDIMENT TRAP "SILT SAVER"	
Ds1 | Ds2	DISTURBED AREA STABILIZATION	
Du	DUST CONTROL	
	LIMITS OF DISTURBANCE	— — LOD
Rt	RAMPING POINT	
Ds3	DISTURBED AREA STABILIZATION	
Sd2-Bf	INLET SEDIMENT TRAP "BAFFLE BOX"	
Hb		
Pm	POLYACRYLAMIDE (PAM)	

OWNER:

THE CITY OF DUNWOODY
41 PERIMETER CENTER EAST
SUITE 250
DUNWOODY, GA 30346
PHONE: (678) 382–6700
CONTACT: BRENT WALKER

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

EROSION CONTROL PLAN PHASE III

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C5-23

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Drawing name: K:\AMT_URO\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-00-6-02_EROS.dwg C5-23 Jan 16, 2013 4:19pm by: aaron.leag

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

1. TITLE NOTE:

   THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN SHALL ALSO BE REFERRED TO HEREIN AS THE EROSION CONTROL PLAN. THE CHANGE WILL NOT AFFECT THE PLAN'S COMPLIANCE WITH THE REQUIREMENTS OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

2. REFERENCE GUIDE:

   ALL SECTION HEADINGS AND CITATIONS REFERENCE THE GENERAL NPDES PERMIT NUMBER GAR 100001 DATED AUGUST 13, 2008.

3. COMPLIANCE NOTE:

   THESE PLANS ARE PROVIDED AS A GUIDE TO ASSIST THE PERMITTEES IN THEIR COMPLIANCE WITH THE GENERAL NPDES PERMIT NUMBER GAR 100001. SHOULD ANY DISCREPANCIES BE FOUND BETWEEN THIS DOCUMENT AND THE PERMIT, THE LANGUAGE AND REQUIREMENTS CONTAINED IN THE PERMIT SHALL GOVERN.

DESIGN PROFESSIONAL'S CERTIFICATIONS [IV]

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES MEETS THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NUMBER GAR 100001.

DATE _____ DESIGN PROFESSIONAL'S SIGNATURE _____

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

DATE _____ DESIGN PROFESSIONALS'S SIGNATURE _____

10/21/2015 0000020670

EXPIRATION DATE LEVEL II CERTIFICATION NUMBER

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

12/10/12 _____

DATE OWNER'S SIGNATURE

DESIGN PROFESSIONAL'S 7-DAY VISIT CERTIFICATION

DATE OF INSPECTION _____

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

_____ _____

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION #

NOTICE OF INTENT [II]

THE PRIMARY PERMITTEE AND TERTIARY PERMITTEE(S) MUST RETAIN KIMLEY-HORN AND ASSOCIATES, INC., EXCEPT WHEN THE PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH KIMLEY-HORN AND ASSOCIATES, INC. DESIGNED WITHIN SEVEN (7) DAYS OF INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

1. RESPONSIBLE PARTIES [II.B] [DEFINITIONS PER PART 1.B]:

   A. PRIMARY PERMITTEE [II.B.1] THE OWNER (THE LEGAL OWNER OF THE FACILITY OF SITE WHERE THE CONSTRUCTION ACTIVITY WILL TAKE PLACE) OR THE OPERATOR (THE ENTITY THAT HAS PRIMARY DAY-TO-DAY OPERATION CONTROL OF THOSE ACTIVITIES AT THE FACILITY NECESSARY TO ENSURE COMPLIANCE WITH PERMIT CONDITIONS), OR BOTH, OF A TRACT OF LAND FOR A CONSTRUCTION PROJECT SUBJECT TO THIS PERMIT.

   B. SECONDARY PERMITTEE AN OWNER INDIVIDUAL BUILDER, UTILITY CONTRACTOR, OR SIMILAR ENTITY THAT CONDUCTS A CONSTRUCTION ACTIVITY WITHIN A COMMON DEVELOPMENT.

   C. TERTIARY PERMITTEE BOTH THE OWNER AND THE OPERATOR OF A REMAINING LOT WITHIN A SURFACE WATER DRAINAGE AREA OF A COMMON DEVELOPMENT WHERE THE PRIMARY PERMITTEE HAS SUBMITTED A NOTICE OF TERMINATION.

2. DEADLINES FOR NOTIFICATION [II.A]:

   A. THE NOTICE OF INTENT SHALL BE SUBMITTED AT LEAST FOURTEEN (14) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. [II.A.1]

   B. WHERE AN OWNER OR AN OPERATOR OR BOTH CHANGES AFTER A NOTICE OF INTENT HAS BEEN FILED, THE SUBSEQUENT OWNER OR OPERATOR OR BOTH MUST FILE A NEW NOTICE OF INTENT AT LEAST SEVEN (7) DAYS BEFORE BEGINNING WORK AT THE FACILITY/SITE. IN THE EVENT A LENDER OR OTHER SECURED CREDITOR ACQUIRES LEGAL TITLE TO THE FACILITY/CONSTRUCTION SITE, SUCH PARTY MUST FILE A NEW NOI IN ACCORDANCE WITH THIS PART BY THE EARLIER TO OCCUR OF (A) SEVEN (7) DAYS BEFORE BEGINNING WORK AT THE FACILITY/CONSTRUCTION SITE; OR (B) THIRTY (30) DAYS FROM ACQUIRING LEGAL TITLE TO THE FACILITY/CONSTRUCTION SITE. STABILIZATION AND BMP INSTALLATION AND/OR MAINTENANCE MEASURES OF A DISTURBED SITE, BY THE SUBSEQUENT OWNER OR OPERATOR, MAY OCCUR IN ADVANCE OF FILING A NEW NOI, WITHOUT VIOLATION OF THIS PERMIT. [II.A.4]

   C. THE PRIMARY PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SECONDARY AND TERTIARY PERMITTEES COMPLETE AND SUBMIT ALL APPROPRIATE NOTICES OF INTENT.

   D. NOTICES OF INTENT MAY BE SUBMITTED FOR SEPARATE PHASES OF PROJECTS WITH A TOTAL PLANNED DISTURBANCE GREATER THAN 5.0 ACRES, PROVIDED THAT EACH PHASE SHALL NOT BE LESS THAN 1.0 ACRE. [II.B.k]

   E. ALL NOTICES OF INTENT ARE TO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATIVE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART IV. [II.C]

3. NOTICE OF INTENT CONTENTS [II.B]:

   THE NOTICE OF INTENT SHALL INCLUDE THE FOLLOWING (REFER TO SECTION II.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):

   - THE SITE/PROJECT NAME
   - THE OPERATOR'S OR OWNER'S CONTACT INFORMATION
   - CONTACT INFORMATION FOR THE INDIVIDUAL WITH DAILY OPERATION CONTROL
   - THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
   - THE NAME OF THE RECEIVING WATER(S) LOCATED WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USE(S) SHOWN ON GEORGIA'S 2008 AND SUBSEQUENT "305(b)/303(d) LIST DOCUMENTS (FINAL)"
   - AN ESTIMATED ACTIVITY SCHEDULE FOR THE PROJECT
   - DESIGN COMPLIANCE CERTIFICATION
   - THE TYPE OF CONSTRUCTION ACTIVITY CATEGORY (LISTED ON NOTICE OF INTENT FORM)
   - ALL MONITORING LOCATIONS
   - FOR STAND ALONE CONSTRUCTION DISTURBING MORE THAN 50 ACRES INCLUDE A SINGLE COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
   - ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL

SPECIAL CONDITIONS [III.A III.B]

1. ALL COVERED DISCHARGES SHALL BE COMPOSED ENTIRELY OF STORM WATER. EXCEPT AS PROVIDED IN PART I.C.2 AND III.A.2.

2. THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED PROVIDED THAT THE NON-STORM WATER COMPONENT OF THE DISCHARGE IS EXPLICITLY LISTED IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN AND IS IN COMPLIANCE WITH PART IV.D.7 OF THE PERMIT:
   - DISCHARGES FROM FIRE FIGHTING ACTIVITIES
   - FIRE HYDRANT FLUSHING
   - POTABLE WATER SOURCES WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS, INCLUDING:
     - WATER LINE FLUSHING
     - IRRIGATION DRAINAGE
     - AIR CONDITIONING CONDENSATE
     - SPRINGS
     - UNCONTAMINATED GROUNDWATER
     - FOUNDATION OR FOOTING DRAINS

3. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM THE SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED. IF A SPILL OCCURS, PERMITTEE IS REQUIRED TO REPORT SPILL IN ACCORDANCE WITH GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT. [III.B.1, III.B.2]

4. THE DISCHARGE OF SANITARY WASTE IN THE STORM WATER DISCHARGE(S) FROM A SITE IS NOT AUTHORIZED BY THIS PERMIT AND SHALL BE PREVENTED.

IMPAIRED STREAM SEGMENT DISCHARGE [PART III.C]

1. ANY PERMITTEE WHO INTENDS TO OBTAIN COVERAGE UNDER THIS PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN ONE (1) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT IDENTIFIED AS "NOT SUPPORTING" ITS DESIGNATED USE(S), AS SHOWN ON GEORGIA'S 2008 AND SUBSEQUENT "305(b)/303(d) LIST DOCUMENTS (FINAL)" AT THE TIME OF THIS NOI SUBMITTAL, MUST SATISFY PART III.C OF THE PERMIT.

2. EROSION CONTROL PLANS MUST INCLUDE AT LEAST FOUR (4) OF THE BEST MANAGEMENT PRACTICES REFERENCED IN PART III.C.2 FOR THOSE AREAS OF THE SITE WHICH DISCHARGE INTO AN IMPAIRED STREAM SEGMENT.

MANAGEMENT PRACTICE AND PERMIT VIOLATIONS [III.D]

1. BEST MANAGEMENT PRACTICES (BMP) [III.D.1]:

   A. BEST MANAGEMENT PRACTICES ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

   B. PROPER DESIGN, INSTALLATION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A COMPLETE DEFENSE TO ANY ACTION BY THE DIRECTOR OR TO ANY OTHER ALLEGATION OF NON-COMPLIANCE WITH PART III.D.3 AND PART III.D.4 OF THE PERMIT. THIS DOES NOT PROTECT THE PERMITTEE FROM POTENTIAL LAWSUITS FILED BY DOWNSTREAM PROPERTY OWNERS.

2. PERMIT VIOLATIONS [III.D.2, III.D.3, III.D.4]:

   A. FAILURE TO PROPERLY DESIGN, INSTALL, OR MAINTAIN BEST MANAGEMENT PRACTICES SHALL CONSTITUTE A VIOLATION OF THE PERMIT FOR EACH DAY ON WHICH SUCH FAILURE OCCURS.

   B. IF DURING THE COURSE OF THE PERMITTEES ROUTINE INSPECTION BEST MANAGEMENT PRACTICE FAILURES ARE OBSERVED WHICH HAVE RESULTED IN SEDIMENT DEPOSITION INTO WATERS OF THE STATE, THE PERMITTEE SHALL CORRECT THE BMP FAILURES AND SHALL SUBMIT A SUMMARY OF THE VIOLATIONS TO THE ENVIRONMENTAL PROTECTION DIVISION IN ACCORDANCE WITH PART V.A.2 OF THE PERMIT.

   C. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH THE DISCHARGE RESULTS IN THE TURBIDITY OF THE RECEIVING WATER(S) BEING INCREASED ABOVE THE LEVELS SPECIFIED IN THE PERMIT.

MANAGEMENT PRACTICE AND PERMIT VIOLATIONS [III.D] (continued)

   D. WHEN THE PERMITTEE HAS ELECTED TO MONITOR OUTFALL(S), THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING THE VALUE SELECTED FROM APPENDIX B. THIS VALUE IS INDICATED ON THIS PLAN WHEN MONITORING IS SELECTED.

TERMINATION OF COVERAGE [VI]

1. NOTICE OF TERMINATION:

   A. A NOTICE OF TERMINATION MUST BE SUBMITTED BY THE PERMITTEE OR THE ENTIRE STAND ALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [VI.A.1]

   B. FOR CONSTRUCTION ACTIVITIES WHERE THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOTICES OF INTENT FOR SEPARATE PHASES OF THE STAND ALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STAND ALONE DEVELOPMENT ON THE NOTICE OF TERMINATION SHALL CORRESPOND TO THE PHASE OR PHASES ON THE NOTICE OF INTENT AND SHALL HAVE UNDERGONE FINAL STABILIZATION AND ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE PERMIT HAVE CEASED. [VI.A.1]

   C. WHEN THE OWNER OR OPERATOR OF THE SITE CHANGES A NOTICE OF TERMINATION MUST BE SUBMITTED. WHERE STORM WATER DISCHARGES WILL CONTINUE AFTER THE CHANGE, THE PERMITTEE MUST, PRIOR TO FILING THE NOTICE OF TERMINATION, NOTIFY ANY SUBSEQUENT OWNER OR OPERATOR OF THE PERMITTED SITE AS TO THE REQUIREMENTS OF THE PERMIT. [VI.A.2]

2. NOTICE OF TERMINATION CONTENTS [VI.B]:

   THE NOTICE OF TERMINATION SHALL INCLUDE THE FOLLOWING (REFER TO SECTION VI.B OF THE PERMIT FOR COMPLETE REQUIREMENTS):

   - THE OPERATOR'S OR OWNER'S CONTACT INFORMATION
   - THE SITE/PROJECT NAME
   - THE NPDES PERMIT NUMBER FOR THE STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY IDENTIFIED BY THE NOTICE OF TERMINATION.
   - THE NAME OF THE INITIAL RECEIVING WATERS (OR FIRST BLUE LINE STREAM ENCOUNTERED)
   - ANY OTHER INFORMATION SPECIFIED ON THE NOTICE OF INTENT AT THE TIME OF SUBMITTAL
   - TERMINATION CERTIFICATION AS REFERENCED IN PART VI.B.6

3. NOTICE OF TERMINATION SUBMITTAL:

   ALL NOTICES OF TERMINATION ARE TO BE SUBMITTED RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE ENVIRONMENTAL PROTECTION DIVISION ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE PERMIT AND TO THE LOCAL AUTHORITY THAT ISSUED THE LAND DISTURBANCE PERMIT. [VI.C]

STANDARD PERMIT CONDITIONS [V]

1. DUTY TO COMPLY [V.A]:

   A. EACH PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE NPDES PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT AND IS GROUNDS FOR ENFORCEMENT ACTION; FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. [V.A.1]

   B. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THE PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THE PERMIT. [V.A.1]

   C. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT THEIR SITE WITHIN SEVEN (7) DAYS OF THEIR KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION BY THE PERMITTEE AT THE ADDRESSES SHOWN IN PART II.C WITHIN FOURTEEN (14) DAYS OF DISCOVERING THE VIOLATION. [V.A.2]

   D. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THE PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THE PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BOTH. VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AS DESCRIBED IN THE PERMIT. [V.A.3]

2. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE [V.C]:

   IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

3. NEED TO MITIGATE [V.D]:

   THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

4. DUTY TO PROVIDE INFORMATION [V.E]:

   THE PERMITTEE SHALL UPON REQUEST FURNISH ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT.

5. OTHER INFORMATION [V.F]:

   WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

6. SIGNATORY REQUIREMENTS [V.G]:

   ALL NOTICES OF INTENT, NOTICES OF TERMINATION, EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS, REPORTS, CERTIFICATIONS, OR OTHER INFORMATION EITHER SUBMITTED TO THE ENVIRONMENTAL PROTECTION DIVISION OR THE OPERATOR OF A LARGE OR MEDIUM MUNICIPAL SEPARATE STORM SEWER SYSTEM, OR THAT THIS PERMIT REQUIRES SHALL BE MAINTAINED BY THE PERMITTEE AND SIGNED AS DESCRIBED BY SECTION V.G OF THE PERMIT.

7. OIL AND HAZARDOUS SUBSTANCE LIABILITY [V.H]:

   THE PERMIT NEITHER PRECLUDES THE INSTITUTION OF ANY LEGAL ACTION NOR PROTECTS THE PRIMARY PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, THE OFFICIAL CODE OF GEORGIA, THE CLEAN WATER ACT, OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

8. PROPER OPERATION AND MAINTENANCE [V.L]

   THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT AND WITH THE REQUIRED PLANS.

9. INSPECTION AND ENTRY [V.M]:

   THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF THE ENVIRONMENTAL PROTECTION AGENCY, THE ENVIRONMENTAL PROTECTION DIVISION, OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:

STANDARD PERMIT CONDITIONS [V] (continued)

   - ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
   - HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THE PERMIT.
   - INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

10. PERMIT ACTIONS [V.N]

    THE PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN [IV]

1. GENERAL NOTES:

   A. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A TWENTY-FIVE FOOT (25') BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(i) OF THE PERMIT. [IV.(i)]

   B. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A FIFTY FOOT (50') BUFFER ALONG THE BANKS OF ANY STATE WATERS CLASSIFIED AS TROUT STREAMS," AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION. VARIANCES MAY BE OBTAINED FROM THE DIRECTOR AS DETAILED IN SECTION IV.(ii) OF THE PERMIT. [IV.(ii)]

   C. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND-DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. AFTER THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED. [IV.(iii)]

   D. ANY AND ALL REVISIONS OR AMENDMENTS TO THIS ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON THE BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE PLAN.

2. CHECKLIST [IV.D.1]:

   A. EACH PLAN SHALL INCLUDE THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED.

3. SITE DESCRIPTION [IV.D.2]:

   A. REFER TO SHEET C5-33 FOR THE CONSTRUCTION ACTIVITY SCHEDULE.

   B. REFER TO SHEET C5-33 FOR THE SITE LOCATION MAP.

   C. REFER TO THE SAMPLING PLAN (WHEN PROVIDED) FOR:
      - THE LOCATION(S) OF THE STORM WATER DISCHARGE(S) AND/OR OUTFALL(S) SELECTED FOR MONITORING
      - THE LOCATION(S) UPSTREAM OF THE CONSTRUCTION SITE SELECTED FOR MONITORING
      - THE DETERMINED NEPHELOMETRIC TURBIDITY UNIT TARGET VALUE SELECTED FROM APPENDIX B OF THE PERMIT
      - THE RATIONALE FOR SELECTING THAT LIMIT INCLUDING THE SURFACE WATER DRAINAGE AREA SIZE CALCULATION AND THE TYPE OF RECEIVING WATERS

   D. REFER TO THE EROSION CONTROL SHEETS FOR A SITE DESCRIPTION COVERING:
      - A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY
      - TOTAL SITE AND DISTURBED AREAS
      - AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO CONSTRUCTION ACTIVITIES AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED AND EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE.
      - IDENTIFY THE RECEIVING WATER(S) AND EXTENT OF WETLAND ACREAGE AT THE SITE

4. CONTROLS [IV.D.3]:

   A. THE NPDES GENERAL PERMIT NUMBER GAR 100001 CONTAINS THE FOLLOWING DEFINITIONS:
      - EROSION – THE PROCESS BY WHICH LAND SURFACE IS WORN AWAY BY THE ACTION OF WIND, WATER, ICE OR GRAVITY.
      - SEDIMENT – THE SOLID MATERIAL, BOTH ORGANIC AND INORGANIC, THAT IS BEING TRANSPORTED IN SUSPENSION OR HAS BEEN MOVED VIA WIND, WATER, ICE OR GRAVITY.
      - SEDIMENTATION – THE ACTION OR PROCESS OF FORMING OR DEPOSITING THE SEDIMENT THAT IS ERODED.

   B. THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN OFFERS GUIDELINES FOR EROSION AND SEDIMENTATION CONTROL INCLUDING STABILIZING MEASURES, STRUCTURAL PRACTICES, AND SEDIMENT BASINS. ALL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED ACCORDING TO THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

      - STABILIZING MEASURES [IV.D.3.a.(1)]:
        STABILIZING MEASURES ARE INTENDED TO REDUCE EROSION AND SEDIMENT DAMAGE TO DOWNSTREAM PROPERTIES AND SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THEY INCLUDE BUT ARE NOT LIMITED TO:
        + DISTURBED AREA STABILIZATION WITH MULCHING, TEMPORARY SEEDING, OR PERMANENT VEGETATION
        + DUST CONTROL
        + EROSION CONTROL MATTING AND BLANKETS
        + TACKIFIERS AND BINDERS

        STABILIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF THE STABILIZING MEASURES LISTED ABOVE OR AS OTHERWISE NOTED ON THE EROSION CONTROL PLANS.

      - STRUCTURAL PRACTICES [IV.D.3.a.(2)]:
        STRUCTURAL PRACTICES ARE INTENDED TO REDUCE EROSION AND SEDIMENT ESCAPE FROM THE SITE OF CONSTRUCTION ACTIVITY AND SHALL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH (AS PRACTICABLE OR GOVERNED BY LOCAL MUNICIPALITIES) CONSTRUCTION ACTIVITIES. THESE PRACTICES INCLUDE BUT ARE NOT LIMITED TO:
        + SILT FENCING: TYPES A, B, AND C AS WARRANTED BY FLOW VELOCITIES AND/OR PROJECT LENGTH
        + CONSTRUCTION EXITS
        + CHECK DAMS: STONE OR HAY BALE DEPENDING UPON FLOW RATES AND DRAINAGE AREAS
        + DOWNDRAINS: TEMPORARY OR PERMANENT
        + RETAINING WALLS: CAST-IN-PLACE CONCRETE OR MODULAR BLOCK
        + RETROFITTING: HALF-ROUND PIPE OR SLOTTED BOARD DAM WITH STONE
        + INLET SEDIMENT TRAPS: TYPES USED WILL VARY DEPENDING UPON FLOW RATES, DRAINAGE AREAS, AND DRAINAGE SLOPES
        + STORM DRAIN OUTLET PROTECTION: RIP-RAP APRON SPECIFICATIONS WILL VARY DEPENDING UPON OVERALL DRAINAGE PARAMETERS
        + SURFACE ROUGHENING: SPECIFIC PRACTICE AND METHOD PRESCRIBED WILL DEPEND UPON TYPE AND RATE OF SLOPE

        THE STRUCTURAL PRACTICES LISTED AB

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN [IV] (continued)

7. SAMPLING ANALYSIS

A. STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT. EPA 833-B-92-001."

B. STORM WATER IS TO BE SAMPLED FOR NEPHOLOMETRIC TURBIDITY UNITS (NTU) AT SAMPLING POINT #1 AND SAMPLING POINT #2 AS SHOWN IN SHEETS C5-03, C5-13, AND C5-23. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF THE RECEIVING WATER(S) BEING INCREASED BY MORE THAN TWENTY-FIVE (25) NTU BETWEEN UPSTREAM AND DOWNSTREAM SAMPLE POINTS FOR WATERS SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART II.B.1.j AND PART II.B.3.j

C. STORM WATER IS TO BE SAMPLED FOR NEPHOLOMETRIC TURBIDITY UNITS (NTU) AT SAMPLING POINT #3, THE OUTFALL LOCATION SHOWN ON SHEETS C5-03, C5-13, C5-23. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75. THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 100001. THE NTU IS BASED ON THE DISTURBED ACREAGE OF 5.0 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0-4.99 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

8. SAMPLING REQUIREMENTS [IV.D.6]:

B. THE PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALL(S).

C. SAMPLING REQUIREMENTS [IV.D.6.a]:
- SITE MAP AS DETAILED IN PART IV.D.6.a.(1) OF THE PERMIT
- A WRITTEN NARRATIVE OF THE SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE, AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES, AND PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION
- A RATIONALE FOR THE NEPHELOMETRIC TURBIDITY UNIT (NTU) LIMIT(S) SELECTED FROM APPENDIX B OF THE PERMIT, INCLUDING THE SIZE OF THE FACILITY OR CONSTRUCTION, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATERS
- ANY ADDITIONAL INFORMATION REQUIRED BY THE ENVIRONMENTAL PROTECTION DIVISION REQUESTED VIA WRITTEN NOTICE TO THE PERMITTEE.

C. SAMPLE TYPES [IV.D.6.b]:
- ALL SAMPLES SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS MUST BE CONDUCTED AS INDICATED IN PART IV.D.5.b OF THE PERMIT.
- LABEL ALL SAMPLE CONTAINERS PRIOR TO COLLECTING THE SAMPLE
- MIX SAMPLES WELL BEFORE TRANSFERRING THEM TO A SECONDARY CONTAINER
- SAMPLE CONTAINERS SHOULD BE LARGE MOUTH, THOROUGHLY CLEANED AND RINSED GLASS O PLASTIC JARS.
- MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED
- SAMPLES SHOULD BE ANALYZED IMMEDIATELY, BUT NOT LATER THAN 48 HOURS AFTER COLLECTION
- DILUTION OF SAMPLES IS NOT REQUIRED
- SAMPLES ARE NOT REQUIRED TO BE COOLED
- SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALL(S) BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED TO THE ENVIRONMENTAL PROTECTION DIVISION AS SPECIFIED IN PART IV.E OF THE PERMIT.

D. SAMPLING POINTS [IV.D.6.c]:
- FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION THEREOF [IV.D.6.c.(1)]
- THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE FIRST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY, BUT DOWNSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY. [IV.D.6.c.(1).(a)]
- THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER MUST BE TAKEN DOWNSTREAM OF THE LAST STORM WATER DISCHARGE FROM THE SITE OF PERMITTED ACTIVITY, BUT UPSTREAM OF ANY DISCHARGES NOT ASSOCIATED WITH PERMITTED ACTIVITY. [IV.D.6.c.(1).(b)]
- THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER (S) OR OUTFALL STORM WATER CHANNEL(S) [IV.D.6.c.(1).(c)]
- DO NOT STIR BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR OUTFALL STORM WATER CHANNEL [IV.D.6.c.(1).(d)]
- THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE CONTAINER FACES UPSTREAM [IV.D.6.c.(1).(e)]
- KEEP THE SAMPLES FREE OF FLOATING DEBRIS [IV.D.6.c.(1).(f)]
- PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT [IV.D.6.C.(1).(g)]
- ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARDS SET FORTH IN THE PERMIT [IV.D.6.c.(1).(h)]

E. SAMPLING FREQUENCY [IV.D.6.d]:
- STORM WATER SAMPLES SHALL BE TAKEN FOR THE FOLLOWING STORM EVENTS:
  + FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * (MONDAY THROUGH FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS, WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE) THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION
  + IN ADDITION TO THE ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS * THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST
  + AT THE TIME OF SAMPLING PERFORMED PURSUANT TO THE ABOVE, IF BMPS ARE FOUND TO BE PROPERLY DESIGNED, INSTALLED AND MAINTAINED, NO FURTHER ACTION IS REQUIRED. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCHES DURING NORMAL BUSINESS HOURS * UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVEN INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED

9. NON-STORM WATER DISCHARGES [IV.D.7]:

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, ANY SOURCES OF NON-STORM WATER LISTED IN PART III.A.2 OF THE PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY ARE IDENTIFIED IN THE PLAN AND HAVE APPROPRIATE POLLUTION PREVENTION MEASURES.

REPORTING [IV.E]

1. MONITORING RECORD SUBMISSION AND RETENTION:

A. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE ENVIRONMENTAL PROTECTION DIVISION (EPD) AT THE ADDRESS SHOWN IN PART II.C OF THE PERMIT BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT.

B. UPON WRITTEN NOTIFICATIONS, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS.

C. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD.

D. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

E. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION IS SUBMITTED IN ACCORDANCE WITH PART VI.

F. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:
- THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
- THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- THE DATE(S) ANALYSES WERE PERFORMED;
- THE TIME(S) ANALYSES WERE INITIATED;
- THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSIS;
- REFERENCE AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
- THE RESULTS OF SUCH ANALYSIS, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS AND;
- RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEED 1000 NTU"

2. RETENTION OF RECORDS

A. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION (NOT) IS SUBMITTED IN ACCORDANCE WITH PART VI:
- A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD
- A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT
- THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT
- A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT
- A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.a. OF THIS PERMIT
- A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT
- DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.a.(1)(c) OF THIS PERMIT.

B. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE RETAINED AT THE PRIMARY PERMITTEE'S PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE

PROJECT DESCRIPTION

PROJECT SUMMARY
EXISTING LAND IS CURRENTLY A DEFUNCT RESIDENTIAL SUBDIVISION. PROPOSED PROJECT IS A PARKS IMPROVEMENT WITH LANDSCAPE AND HARDSCAPE. SELECTED EXISTING CURB, PAVEMENT, AND RETAINING WALLS, WILL BE DEMOLISHED TO ALLOW FOR THE PARKS AMENITIES TO BE INSTALLED. THE PARK IMPROVEMENTS ARE LIMITED TO 4.25 ACRES OF THE 15.93 AC SITE. THE REMAINDER OF THE SITE WILL BE RE-DEVELOPED BY THE CITY OF DUNWOODY.

A DETENTION POND WAS PART OF THE DESIGN FOR THE RESIDENTIAL SUBDIVISION AND IT WILL CONTINUE TO PROVIDE STORMWATER MANAGEMENT FOR THE REDEVELOPMENT OF THE PROPERTY. THE ORIGINAL HYDROLOGY REPORT WAS PREPARED BY HIGHLAND ENGINEERING DATED 2008. THE SUBDIVISION WAS A DENSE DEVELOPMENT OF TOWN HOMES AND THE REDEVELOPMENT WILL PROVIDE MORE PERVIOUS AREA THAN THE ORIGINAL HYDROLOGY REPORT ACCOUNTED FOR, THUS LOWERING THE PROJECTS RUNOFF CURVE NUMBER AND DECREASING FLOWS. APPROXIMATELY 16.04 ACRES DRAINS TO THE DETENTION POND. THE DEMOLITION AND PARKS IMPROVEMENTS DO NOT ALTER THE DRAINAGE BASIN. CERTAIN DRAINAGE SUB-BASINS INTERNAL OVERALL POND BASIN BE MODIFIED TO MEET THE PROPOSED DESIGN.

THE PROJECT DOES NOT PROPOSE ANY ENCROACHMENTS INTO THE STATE WATERS BUFFER AREA.

THE PROJECT RECEIVING WATER FOR THIS SITE IS AN UNNAMED TRIBUTARY OF NANCY CREEK THAT DISCHARGES TO NANCY CREEK. THE PROJECT IS WITHIN 1 MILE OF NANCY CREEK WHICH IS AN IMPAIRED STREAM. SEE APPENDIX 1 MEASURES ON SHEET C5-32 FOR IMPLEMENTATION OF ADDITIONAL MEASURES PER NPDES PERMIT. THE TMDL FOR NANCY CREEK DOES NOT LIST ADDITIONAL SITE SPECIFIC MEASURES TO BE IMPLEMENTED.

PRE RUNOFF CURVE NUMBER: 0.60
POST RUNOFF CURVE NUMBER: 0.60

DURING CONSTRUCTION THE EXISTING DETENTION POND WILL BE RETRO-FITTED TO PROVIDE SEDIMENT STORAGE FOR DISTURBED AREAS THAT FLOW TO THE POND. TWO SMALL AREAS OF THE SITE, AN AREA ON THE WEST AND AN AREA ON THE EAST, DRAIN OFFSITE. SEDIMENT STORAGE FOR THIS AREAS WILL BE PROVIDED BY SILT FENCE. INLET SEDIMENT TRAPS AND INTERIOR SITE SILT FENCE WILL PROVIDE SEDIMENT PROTECTION. AFTER CONSTRUCTION THE EXISTING POND WILL REMAIN TO PROVIDE WATER QUALITY AND CHANNEL PROTECTION FOR THE SITE.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

1. COMPREHENSIVE:

A. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.**

B. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND THE CITY OF DUNWOODY CODES GOVERNING EROSION AND SEDIMENTATION CONTROL. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

C. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON PUBLIC SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE STANDARDS SPECIFIED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, CURRENT EDITION, AND CITY OF DUNWOODY STANDARDS.

D. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**

E. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH SITE GRADING CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

F. THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

G. CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAIR, AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OFF SITE ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. THE PAVED STREET ADJACENT TO THE SITE EXIT WILL BE INSPECTED DAILY FOR TRACKING OF MUD, DIRT, OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

H. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

I. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION.

J. EROSION CONTROL DEVICES ARE TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO ANY DEMOLITION.

K. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171 – TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CURRENT EDITION, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION, AND CITY OF DUNWOODY STANDARDS.

L. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

1. DURING CONSTRUCTION:

A. ON SITE DUST CONTROL DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.

B. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. STONE FOR RIP-RAP SHALL CONSIST OF ROUGH UN-HEWN QUARRY GRANITE AS NEARLY IN RECTANGULAR SECTION AS PRACTICAL. THE MINIMUM SIZE STONE SHALL WEIGH BETWEEN 75 AND 150 POUNDS AND SHALL BE HAND PLACED AS A LOOSE STONE EMBANKMENT.

C. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**

D. AT ANY TIME DURING CONSTRUCTION IF IT BECOMES NECESSARY TO PUMP STORM WATER OR GROUNDWATER FROM AN EXCAVATION, THE PUMPED WATER MUST MEET THE TURBIDITY REQUIREMENTS OUTLINED IN THE SITE SPECIFIC EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. WATER THAT DOES NOT MEET THESE REQUIREMENTS MUST BE FILTERED OR DISCHARGED INTO A TEMPORARY SEDIMENT BASIN UNTIL IT MEETS THE TURBIDITY REQUIREMENTS. ONCE THE TURBIDITY REQUIREMENTS HAVE BEEN MET THE WATER MAY BE DISCHARGED INTO THE STORM SEWER SYSTEM. AS A MINIMUM TURBIDITY TESTS SHOULD BE PERFORMED AS DESCRIBED IN THE PERMIT. THESE SAME REQUIREMENTS APPLY TO ALL AUTHORIZED NON-STORM WATER DISCHARGES UNDER THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES (DNR) ENVIRONMENTAL PROTECTION DIVISION (EPD) GENERAL PERMIT NO. GAR 100001, AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

3. SOIL CLEANUP AND CONTROL PRACTICES REGARDING PETROLEUM SPILLS AND LEAKS

A. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

C. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

D. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

E. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.

F. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.

G. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACT WITHIN 24 HOURS.

H. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

I. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

4. PRODUCT SPECIFIC PRACTICES

A. PETROLEUM BASED PRODUCTS – CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER , NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHOD WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES (continued)

B. PAINTS, FINISHES, AND SOLVENTS – ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCTS, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.

C. CONCRETE TRUCK WASHING – NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE.

D. FERTILIZER/HERBICIDES – THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

E. BUILDING MATERIALS – NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF . ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

5. WASTE MATERIALS

A. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY SECTION 404 PERMIT.

B. ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

C. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

6. HAZARDOUS WASTES

A. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOBSITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

B. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOBSITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

7. SANITARY WASTES

A. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVER

EROSION CONTROL LEGEND

STABILIZATION MEASURES:

Bf		BUFFER ZONE
Cs		COASTAL DUNE STABILIZATION
Ds1		DISTURBED AREA STABILIZATION: (WITH MULCHING ONLY)
Ds2		DISTURBED AREA STABILIZATION: (WITH TEMPORARY SEEDING)
Ds3		DISTURBED AREA STABILIZATION: (WITH PERMANENT VEGETATION)
Ds4		DISTURBED AREA STABILIZATION: (WITH SODDING)
Du		DUST CONTROL ON DISTURBED AREAS
Mb		MATTING AND BLANKETS
Pm		POLYACRYLAMIDE (PAM)
Sb		STREAM BANK STABILIZATION: (USING PERMANENT VEGETATION)
Tb		TACKIFIERS AND BINDERS
Sp		SAMPLING POINT
Su		SURFACE ROUGHENING

STRUCTURAL MEASURES:

Cd-S		STONE CHECK DAM
Cd-Hb		HAY BALE CHECK DAM
Ch-V		CHANNEL STABILIZATION: VEGETATED LINING
Ch-Rp		CHANNEL STABILIZATION: ROCK RIP-RAP LINING
Ch-C		CHANNEL STABILIZATION: CONCRETE LINING
Co		CONSTRUCTION EXIT
Cr		CONSTRUCTION ROAD STABILIZATION
Dc-A		STREAM DIVERSION CHANNEL: GEOTEXTILE, POLYETHYLENE FILM, OR SOD
Dc-B		STREAM DIVERSION CHANNEL: GEOTEXTILE ALONE
Dc-C		STREAM DIVERSION CHANNEL: CLASS I RIP-RAP AND GEOTEXTILE
Di		DIVERSION
Dn1		TEMPORARY DOWNDRAIN STRUCTURE
Dn2		PERMANENT DOWNDRAIN STRUCTURE
Fr		FILTER RING
Go		GABION
Gr		GRADE STABILIZATION STRUCTURE
Lv		LEVEL SPREADER
Rd		ROCK FILTER DAM
Re		RETAINING WALL
Rt-P		RETROFITTING: HALF-ROUND PIPE WITH STONE FILTER
Rt-B		RETROFITTING: BOARD DAM WITH STONE
Sd1-A		TYPE A SILT FENCE
Sd1-B		TYPE B SILT FENCE
Sd1-C		TYPE C SILT FENCE
Sd1-S		SANDBAGS
Sd1-Hb		HAY OR STRAW BALES
Sd1-Bb		BRUSH BARRIER
Sd2		INLET SEDIMENT TRAP
Sd2-F		INLET SEDIMENT TRAP: FILTER FABRIC WITH SUPPORTING FRAME
Sd2-B		INLET SEDIMENT TRAP: BAFFLE BOX
Sd2-Bg		INLET SEDIMENT TRAP: BLOCK AND GRAVEL DROP INLET PROTECTION
Sd2-G		INLET SEDIMENT TRAP: GRAVEL DROP INLET PROTECTION
Sd2-S		INLET SEDIMENT TRAP: SOD INLET PROTECTION
Sd2-P		INLET SEDIMENT TRAP: CURB INLET PROTECTION
Sd2-Sx		INLET SEDIMENT TRAP: SILT SAVER
Sd2-Rb		INLET SEDIMENT TRAP: ROCK BAG
Sd3		TEMPORARY SEDIMENT BASIN
Sr-B		TEMPORARY STREAM CROSSING: BRIDGE CROSSING
Sr-C		TEMPORARY STREAM CROSSING: CULVERT CROSSING
St		STORM DRAIN OUTLET PROTECTION
Su		SURFACE ROUGHENING
Tp		TOPSOILING
Wt		VEGETATED WATERWAY OR STORM WATER CONVEYANCE CHANNEL

START DATE 01/2013
END DATE 01/2014

THIS SCHEDULE IS TO BE USED FOR PERMITTING PURPOSES ONLY. REFER TO APPROVED PROJECT SCHEDULE FOR EXACT CONSTRUCTION SEQUENCING.

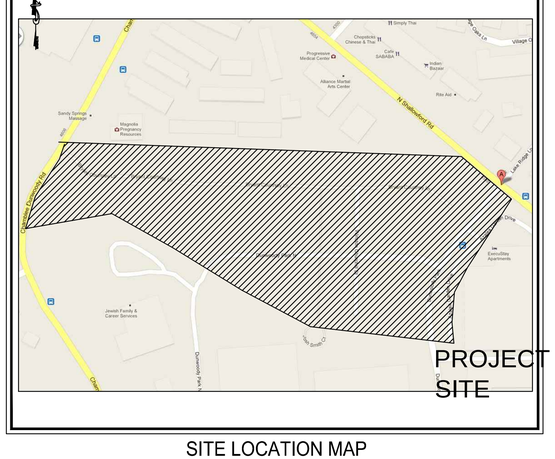
DESCRIPTION	MONTH 1	2	3	4	5	6	7	8	9	10	11	12
INSTALL TREE PROTECTION												
INITIAL EROSION CONTROL BMP INSTALLATION												
SD3 INSTALLATION AND MAINTENANCE												
DEMOLITION												
CLEARING, GRUBBING, GRADING												
TEMPORARY GRASSING												
PERMANENT GRASSING (IF APPLICABLE)												
INTER. EROSION CONTROL BMPS INSTALLATION												
MAINT. OF EROSION CONTROL DEVICES												
MAINTENANCE OF TREE PROTECTION												
STORM AND SANITARY SEWER INSTALLATION												
BUILDING CONSTRUCTION												
FINAL EROSION CONTROL BMPS INSTALLATION												
FINAL PAVING												
CLEARING OF STORM DRAINS												
FINAL LANDSCAPING												
REMOVAL OF EROSION CONTROL MEASURES												

ACTIVITY SCHEDULE

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

JOSEPH E. DAVIS
Level II Certified Design Professional

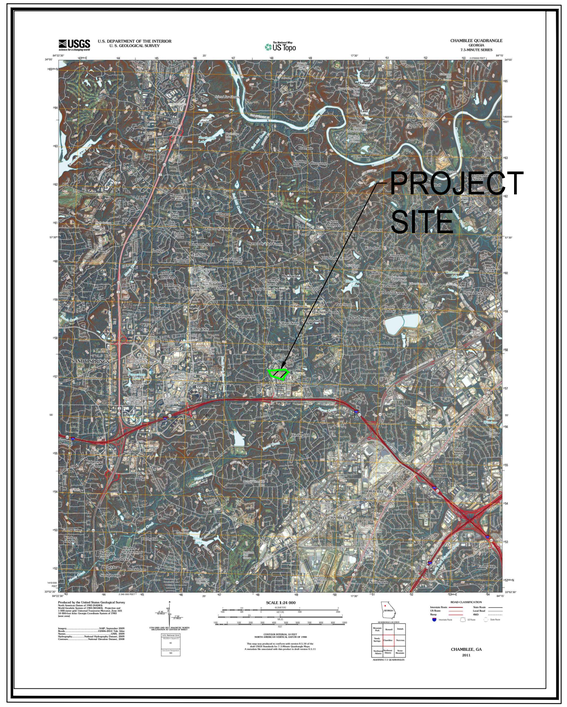
CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015



SITE LOCATION MAP
N.T.S.

WARM WATER (SUPPORTING WARM WATER FISHERIES)									
		SURFACE WATER DRAINAGE AREA, SQUARE MILES							
		0–4.99	5–9.99	10–24.99	25–49.99	50–99.99	100–249.99	250–499.99	500+
SITE SIZE, ACRES	1.00–10	75	150	200	400	750	750	750	750
	10.01–25	50	100	100	200	300	500	750	750
	25.01–50	50	50	100	100	200	300	750	750
	50.01–100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

APPENDIX B
NEPHELOMETRICK TURBIDITY UNIT (NTU) TABLE



U.S.G.S. TOPOGRAPHIC MAP
NORTHWEST ATLANTA QUAD
N.T.S.

APPENDIX 1
THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

Plan Page #	Included Y/N		
	N	a.	During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
	N	b.	Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
	N	c.	Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
C5-00-23	Y	d.	Place a large sign (minimum 4 feet x 8 feet) on the site visible from the roadway identifying the construction site, the permittee(s), and the contact person(s) and telephone number(s).
C5-00-23	Y	e.	Use anionic polyacrylamide (PAM) and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III .D.1. of the NPDES Permits.
	N	f.	Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Part IV.D.6.d. of the NPDES Permits.
	N	g.	Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
	N	h.	Limit the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations).
C5-00-23	Y	i.	Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less.
	N	j.	Use "Dirt II" techniques to model and manage storm water runoff (e.g., seep berms, sand filters, anionic Pam), available on the EPD website, www.gaepd.org.
	N	k.	Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
	N	l.	Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever storm water may be discharged.
C5-00-23	Y	m.	Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1.
	N	n.	Use appropriate erosion control matting or blankets instead of concrete in construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
	N	o.	Use anionic PAM under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
	N	p.	Install sod for a minimum 20 foot width, in lieu of seeding, along the site perimeter wherever storm water may be discharged.
	N	q.	Use a surface draining skimmer designed to drain temporary sediment basins and retrofitted storm water management basins over a minimum three (3) day period.
	N	r.	Certified personnel shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(2). (a) - (c), Part IV.D.4.b.(3). (a) - (c) or Part IV.D.4.c.(2). (a) - (c) of the NPDES Permit GAR 100003, as applicable or Part IV.D.4.a.(2) of the Permit GAR 100001. ("If working under NPDES Permit GAR 100002 see below.")
	N	*r.1.*	*" Certified personnel shall conduct inspections at least once every seven calendar days and within 24 hours of the end of the storm that is 0.5 inches or greater in accordance with part IV.D.4.a.(2). (A) - (C) of this permit."*
	N	s.	Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
	N	t.	Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the State Soil and Water Conservation Commission). (If using this item please refer to the Alternate BMP guidance document found at www.gaswcc.georgia.gov)

Effective January 1, 2012

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

STAND ALONE CONSTRUCTION PROJECTS

SWCD: DEKALB COUNTY

Project Name: DUNWOODY RENAISSANCE PARKS | **Address:** ATLANTA, GEORGIA 30354

City/County: DUNWOODY/DEKALB | **Date on Plans:** 11/21/2012

Plan Page #	Included Y/N		TO BE SHOWN ON ES&PC PLAN
C5-33	Y	1.	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. **(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)**
C5-01-23	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional. **(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)**
C0-00, C5-01-23	Y	3.	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
C5-01-23	Y	4.	Provide the name, address and phone number of primary permittee.
C0-00, C5-01-23	Y	5.	Note total and disturbed acreage of the project or phase under construction.
C0-00, C5-01-23	Y	6.	Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
C0-00, C5-33	Y	7.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C5-01-23	Y	8.	Graphic scale and north arrow.
C5-01-23	Y	9.	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2.5 or 10

SEE SURVEY	Y	10.	Boundary line survey.
C5-01-23	Y	11.	Delineation and acreage of contributing drainage basins on the project site.
C5-01-23	Y	12.	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
C5-01-23	Y	13.	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
C5-01-23	Y	14.	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
C5-01-23	Y	15.	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
C5-01-23	Y	16.	Soil series for the project site and their delineation.
C5-01	Y	17.	Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
C5-01-23	Y	18.	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.
C5-01-23	Y	19.	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 18 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.
N/A	Y	20.	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.
C5-01-23	Y	21.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C5-01-23	Y	22.	The limits of disturbance for each phase of construction.
N/A		23.	Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist. **(A copy of the written approval by EPD must be attached to the plan for the plan to be reviewed.)**
C5-01-23	Y	24.	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written rationale explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls.
N/A		25.	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
C5-01-23; C5-32	Y	26.	Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.
C5-01-23; C5-32	Y	27.	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.
C5-32	Y	28.	Provide BMPs for the remediation of all petroleum spills and leaks.
C5-01-23	Y	29.	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual. Chapter 6, with legend.
C5-33	Y	30.	Description of the nature of construction activity.
N/A		31.	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs.
C5-33	Y	32.	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
C5-32	Y	33.	Description of the practices that will be used to reduce the pollutants in storm water discharges.
C5-32	Y	34.	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
C5-31	Y	35.	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 14 of the permit.
C5-31	Y	36.	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 14 of the permit.
C5-31	Y	37.	Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G.2.d. of the state general permit.
C5-32	Y	38.	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
C5-01-23	Y	39.	Indication that non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits.
C5-31	Y	40.	Indication that the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.
C5-31	Y	41.	Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.
C5-32	Y	42.	Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
C5-32	Y	43.	Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed.
C5-31	Y	44.	Provide complete requirements of inspections and record keeping by the primary permittee.
C5-32	Y	45.	Provide complete requirements of sampling frequency and reporting of sampling results.
C5-32	Y	46.	Provide complete details for retention of records as per Part IV.F. of the permit.
C5-32	Y	47.	Description of analytical methods to be used to collect and analyze the samples from each location.
N/A	Y	48.	Appendix B rationale for outfall sampling points where applicable.
C5-01-23	Y	49.	Cleary note statement in bold letters- **"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities."**
C5-01-23	Y	50.	Cleary note maintenance statement in bold letters - **"Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."**
C5-01-23	Y	51.	Clearly note the statement in bold letters - **"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."**
C8-00-C8-01	Y	52.	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
C8-00-C8-01	Y	53.	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Effective January 1, 2012

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

NPDES NOTES

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12

KHA PROJECT NO.: 019124002

SHEET NUMBER
C5-32

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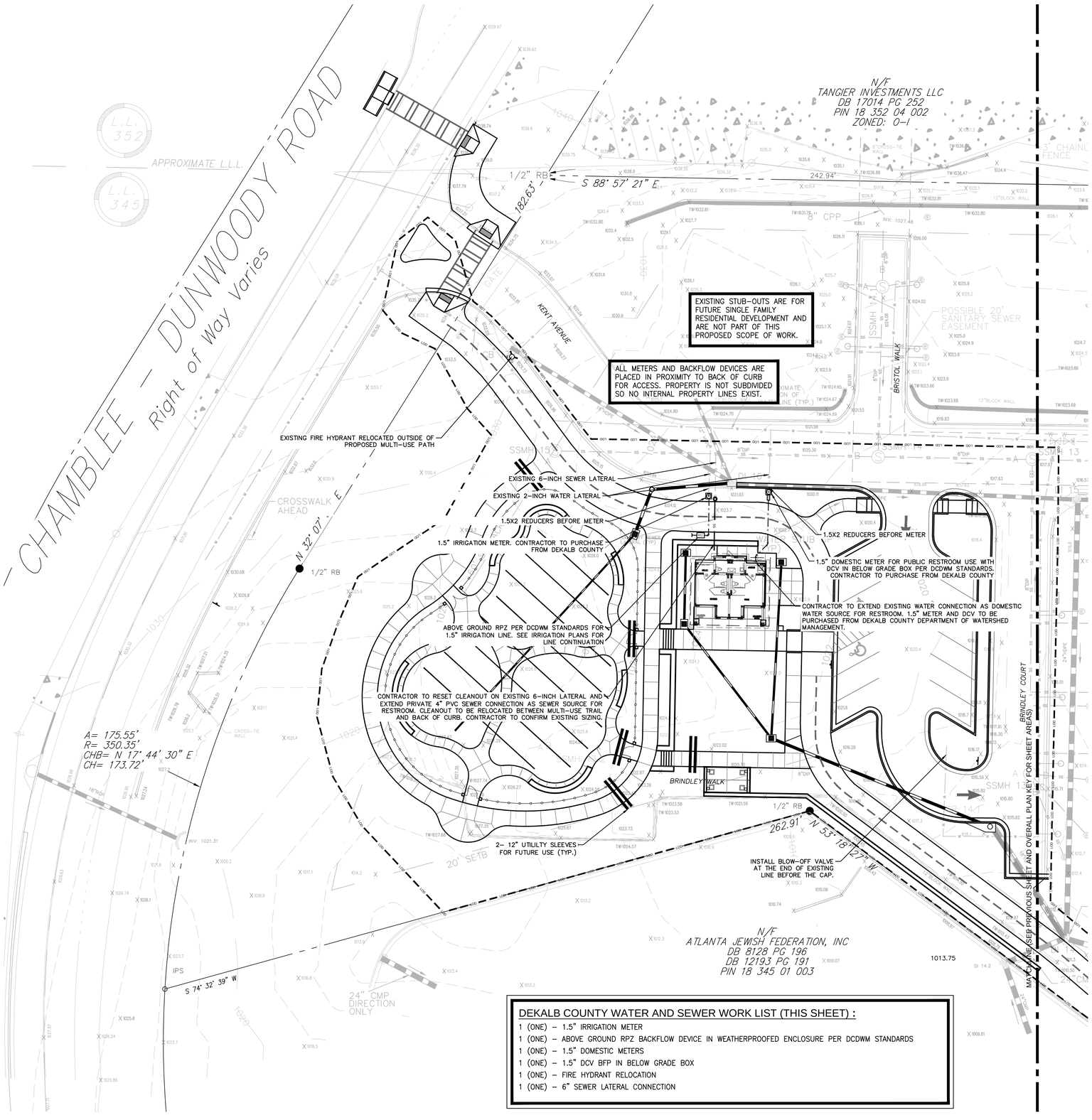
Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C6-10_NPDES.dwg C5-32 Jan 16, 2013 4:20pm by: aaron.legg



DEKALB COUNTY WATER AND SEWER WORK LIST (THIS SHEET) :

1 (ONE) – 1.5" IRRIGATION METER
1 (ONE) – ABOVE GROUND RPZ BACKFLOW DEVICE IN WEATHERPROOFED ENCLOSURE PER DCDWM STANDARDS
1 (ONE) – 1.5" DOMESTIC METERS
1 (ONE) – 1.5" DCV BFP IN BELOW GRADE BOX
1 (ONE) – FIRE HYDRANT RELOCATION
1 (ONE) – 6" SEWER LATERAL CONNECTION

NOTE: ALL SANITARY CLEANOUTS AND WATER VALVES TO BE SET IN CONCRETE COLLAR.

UTILITY NOTES:

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6. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
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DISTRICT 15:	LONNIE KELLEY	(404)371-2149
DISTRICT 16:	DAVID O'BRIEN	(404)687-4050
DISTRICT 18 (NW):	MERCER McGUIRE	(404)687-4060
DISTRICT 18 (MIDDLE):	MECO FAVORS	(404)371-2135
DISTRICT 18 (EAST):	MARCELIN DENIS	(404)371-2110

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- ALL WATER MAINS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES TO BE DEDICATED TO OR OWNED BY DCDWM, SHALL BE INSTALLED ACCORDING TO THE APPROVED DESIGN. ALL FIELD CHANGES MUST BE APPROVED BY DCDWM. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, AND A COPY OF THE DESIGN STANDARDS, MOST CURRENT EDITION, ON SITE AT ALL TIMES.
- ALL MECHANICAL JOINT DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AND MEETING THE LATEST REQUIREMENTS OF AWWA C151/A21.51.
- ALL VALVES WHICH ARE TO BE BURIED IN THE GROUND SHALL BE PROVIDED WITH A VALVE BOX AND COVER.
- GATE VALVES SHALL CONFORM TO AWWA C500 (LATEST EDITION) FOR DOUBLE-DISC GATE VALVES, OR AWWA C509 (LATEST EDITION) FORE RESILIENT-SEATED GATE VALVES, AND SHALL BE MANUFACTURED BY AMERICAN FLOW CONTROL, US PIPE, MUELLER, CLOW, OR APPROVED EQUAL.
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- FIRE HYDRANTS SHALL BE MANUFACTURED IN FULL COMPLIANCE WITH AWWA STANDARDS FOR DRY-BARREL FIRE HYDRANTS, AWWA C502, AND AS HEREIN AMENDED. ONLY THE FOLLOWING HYDRANTS ARE APPROVED FOR USE IN DEKALB COUNTY: AMERICAN DARLING B84B, MandH STYLE 129, MUELLER A-423, CLOW MEDALLION, US PIPE METROPOLITAN/M-94, OR WATEROUS WB67-250. FOLLOW FIRE HYDRANT INSTALLATION STANDARD PROVIDED IN CONSTRUCTION DETAILS (W-004).
- REFER TO CONSTRUCTION DETAILS OR DCDWM DESIGN STANDARDS FOR ALL TRENCH EXCAVATION DETAILS.
- ALL BENDS ARE TO BE PROPERLY BRACED WITH BLOCKING ACCORDING TO DCDWM SPECIFICATION. SEE BLOCKING DETAILS IN CONSTRUCTION DETAILS OR DCDWM DESIGN STANDARDS 2009 EDITION, VERSION 1.0.
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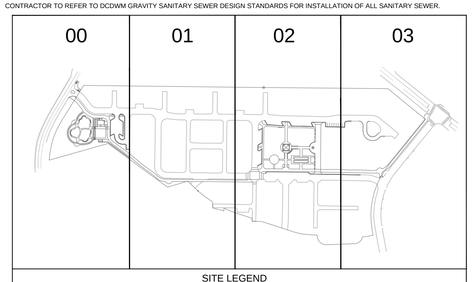
- 1.5" RPZ IS REQUIRED ON 1.5" IRRIGATION LINE, ABOVE GROUND IN A WEATHER PROTECTIVE BOX (SEE DCDWM STANDARDS).
- 1"RPZ IS REQUIRED ON 1" IRRIGATION LINE, ABOVE GROUND IN A WEATHER PROTECTIVE BOX (SEE DCDWM STANDARDS).
- ALL BACKFLOW DEVICES MUST BE INSTALLED PER DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT STANDARDS AS CLOSE AS PRACTICAL TO PROPERTY LINE, OUT OF RIGHT-OF-WAY
- CALL FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION OF BACKFLOW DEVICES AT (404)687-4075
- CONTRACOT TO PURCHASE AND INSTALL ALL BACKFLOW DEVICES PER DCDWM STANDARDS.

DEKALB COUNTY SEWER NOTES:

- AT NO TIME WILL ANY GRAVITY SANITARY SEWER CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF ALL PLANS, RECEIPT OF ALL REQUIRED DOCUMENTS INCLUDING NECESSARY EASEMENTS, ISSUANCE OF SANITARY SEWER CONSTRUCTION PERMIT TO APPROVED CONTRACTOR BY DCDWM AND A PRECONSTRUCTION CONFERENCE HELD WITH A DCDWM INSPECTOR .
- ALL GRAVITY SANITARY SEWER LINES, MANHOLES AND OTHER APPURTENANCES TO BE GOVERNED BY DCDWM SHALL BE INSTALLED ACCORDING TO APPROVED PLANS AND PROFILES. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, A COPY OF THE DESIGN STANDARDS, CURRENT EDITION, ON SITE AT ALL TIMES.
- CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS, ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, INCLUDING BUT NOT LIMITED TO INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- SANITARY SEWER CONSTRUCTION SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT LINES, SANITARY SEWERS OR STRUCTURES FROM UNUSUAL STRESSES.
- CONTRACTOR SHALL PROVIDE FOR THE FLOW OF ALL SANITARY SEWERS OR DRAINS INTERRUPTED DURING THE PROGRESS OF THE WORK AND SHALL RESTORE SAME TO A PRECONSTRUCTION CONDITION.
- AT THE START OF CONSTRUCTION CONTRACTOR SHALL INSTALL AN AIR PLUG IN THE FIRST PIPE LAID OUT OF THE ENTRANCE MANHOLE AND IN THE DOWNGRADE SIDE OF THE FIRST NEWLY INSTALLED MANHOLE. SAID PLUGS SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION AND APPROVAL IS GIVEN BY DCDWM. CONTRACTOR MUST EXERCISE EXTREME CAUTION TO ENSURE PLUGS ARE NOT LOST INTO THE GRAVITY SANITARY SEWER SYSTEM.
- THE CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE DEKALB COUNTY SOIL EROSION AND SEDIMENT CONTROL ORDINANCE, THE PROVISIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL N GEORGIA," AND ANY SPECIAL CONDITION REQUIRED BY THE EPD ASSOCIATED WITH ANY VARIANCES ISSUED BY THE SAME, AND ANY SPECIAL CONDITIONS REQUIRED BY THE DCDWM INSPECTOR.
- GRAVITY SANITARY SEWER LINES SHALL BE EITHER PVC, DUCTILE IRON PIPE, OR HDPE.
- ALL SANITARY SEWERS PIPE AND FITTINGS SHALL BE MARKED IN ACCORDANCE WITH THE LATEST ASTM/ANSI DESIGNATIONS. PIPE MARKINGS SHALL APPEAR AT INTERVALS OF FIVE (5) FEET OR LESS ON PIPE BARREL.
- REFER TO DCDWM STANDARD MANUAL FOR ACCEPTABLE MATERIAL CLASSIFICATIONS.
- MANHOLES SHALL BE PRECAST REINFORCED CONCRETE CONSTRUCTION MADE IN CONFORMANCE WITH THE LATEST EDITION OF ANSI/ASTM C478. THE MINIMUM WALL THICKNESS FOR A FOUR FOOT DIAMETER MANHOLE IS FIVE INCHES.
- ALL EXCAVATION SHALL BE OPEN CUT UNLESS OTHERWISE INDICATED ON THE APPROVED DESIGN OR DIRECTED BY DCDWM. EXCAVATION BELOW TOPSOIL MAY BE PERFORMED BY MACHINE, BUT SHALL BE SUPPLEMENTED BY SUCH HAND DRESSING OR LEVELING AS MAY BE REQUIRED TO CONFORM TO THE LINES AND GRADES AS GIVEN BY DCDWM. REFER TO DCDWM TRENCH DETAIL IN CONSTRUCTION DETAILS.
- THE FLOW IN SANITARY SEWERS, DRAINS, GUTTERS, OR WATER COURSES ENCOUNTERED DURING CONSTRUCTION SHALL BE ADEQUATELY PROVIDED FOR BY THE CONTRACTOR TO ENSURE THESE FLOWS DO NOT INTERFERE WITH THE PROSECUTION OF WORK, AND ARE MAINTAINED IN SUCH A WAY TO ENSURE CONTINUITY OF FLOW.
- IF RAW SEWAGE IS ENCOUNTERED DURING PERFORMANCE OF THE WORK, THE CONTRACTOR MUST IMMEDIATELY STOP WORK AND SHALL NOTIFY DCDWM.
- BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATION SECTION 812, TYPE II FOUNDATION BACKFILL.
- CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.



SITE LEGEND

UTILITIES PROTECTION CENTER, INC.
1 (800) 282-7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325-5000

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

UTILITY PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12

KHA PROJECT NO.: 019124002

SHEET NUMBER
C6-00

Drawing name: K:\ATL_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C7-00_UTILITY.dwg C6-00 Jan 16, 2013 4:20pm by: aaron.legg
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Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C7-00_UTILITY.dwg 06-01 Jan 16, 2013 4:20pm by: aaron.legg

EXISTING FIRE HYDRANT TO REMAIN

EXISTING STUB-OUTS ARE FOR FUTURE SINGLE FAMILY RESIDENTIAL DEVELOPMENT AND ARE NOT PART OF THIS PROPOSED SCOPE OF WORK.

EXISTING FIRE HYDRANT AND VALVE TO BE RELOCATED OUTSIDE OF PROPOSED MULTI-USE PATH

APPROXIMATE LOCATION OF WATERLINE (TYP.)

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)

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- SANITARY SEWER CONSTRUCTION SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT LINES, SANITARY SEWERS OR STRUCTURES FROM UNUSUAL STRESSES.
- CONTRACTOR SHALL PROVIDE FOR THE FLOW OF ALL SANITARY SEWERS OR DRAINS INTERRUPTED DURING THE PROGRESS OF THE WORK AND SHALL RESTORE SAME TO A PRECONSTRUCTION CONDITION.
- AT THE START OF CONSTRUCTION CONTRACTOR SHALL INSTALL AN AIR PLUG IN THE FIRST PIPE LAID OUT OF THE ENTRANCE MANHOLE AND IN THE DOWNGRADE SIDE OF THE FIRST NEWLY INSTALLED MANHOLE. SAID PLUGS SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION AND APPROVAL IS GIVEN BY DCDWM. CONTRACTOR MUST EXERCISE EXTREME CAUTION TO ENSURE PLUGS ARE NOT LOST INTO THE GRAVITY SANITARY SEWER SYSTEM.
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- CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.

DEKALB COUNTY WATER AND SEWER WORK LIST (THIS SHEET) :

1 (ONE) – FIRE HYDRANT RELOCATION

NOTE: ALL SANITARY CLEANOUTS AND WATER VALVES TO BE SET IN CONCRETE COLLAR.

00 01 02 03

SITE LEGEND

UTILITIES PROTECTION CENTER, INC.
1 (800) 282-7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325-5000

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
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	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

UTILITY PLAN

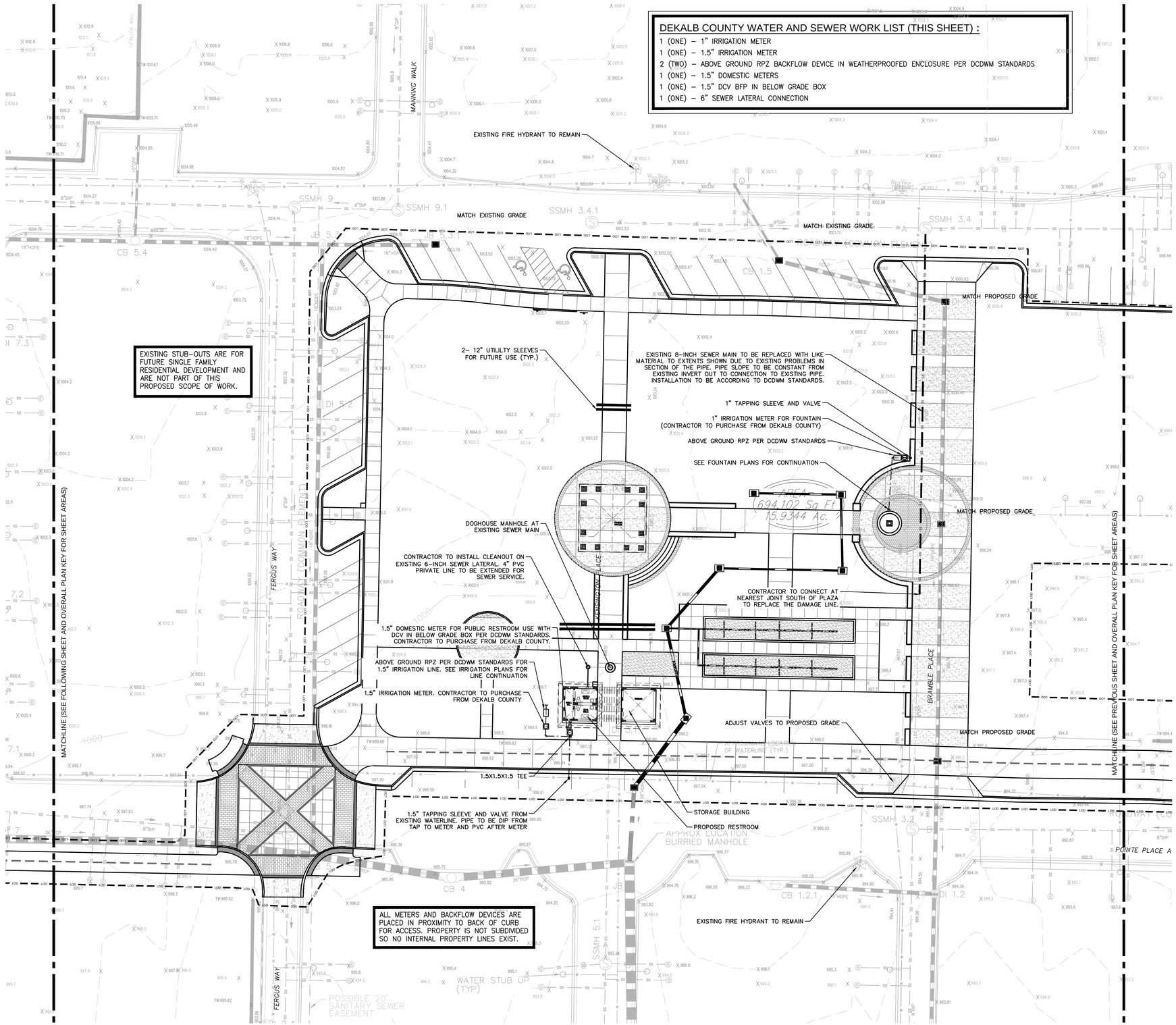
DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12

KHA PROJECT NO.: 019124002

SHEET NUMBER
C6-01



DEKALB COUNTY WATER AND SEWER WORK LIST (THIS SHEET) :

1 (ONE) – 1" IRRIGATION METER
1 (ONE) – 1.5" IRRIGATION METER
2 (TWO) – ABOVE GROUND RPZ BACKFLOW DEVICE IN WEATHERPROOFED ENCLOSURE PER DCDWM STANDARDS
1 (ONE) – 1.5" DOMESTIC METERS
1 (ONE) – 1.5" DCV BFP IN BELOW GRADE BOX
1 (ONE) – 6" SEWER LATERAL CONNECTION

UTILITY NOTES:

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2. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES.
3. ALL UTILITY CONNECTIONS END AT 5' OUTSIDE THE BUILDING FOOTPRINT. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR BUILDING LAYOUT AND INTERNAL UTILITY SERVICE.
4. CONTRACTOR SHALL COORDINATE ALL NEW AND RELOCATED UTILITY SERVICES WITH THE APPROPRIATE LOCAL UTILITY COMPANY.
5. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.
6. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
7. LOCATION OF WATER LINES ARE APPROXIMATE. CONTRACTOR TO FIELD LOCATE AND VERIFY LOCATION AND SIZE.
8. ACCORDING TO DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT RECORDS THE EXISTING SITE WATER AND SEWER HAS NOT BEEN ACCEPTED BY DEKALB COUNTY. DEKALB COUNTY IS IN THE PROCESS OF INSPECTING AND TESTING THE WATER AND SEWER LINES FOR APPROVAL

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- TO PURCHASE A COPY OF THE DESIGN STANDARDS, PLEASE CALL 770-621-7272
- DEVELOPER SHALL PROVIDE RECORD DRAWINGS "AS-BUILT PLANS" AND "FINAL PLATS" (IF APPLICABLE) IN HARD COPY AND ELECTRONIC (AUTOCAD OR MICROSTATION FORMAT), AS WELL AS RECORD ALL EASEMENTS THAT WILL BE DEDICATED TO DEKALB COUNTY IN THE COURT HOUSE, PRIOR TO OBTAINING THE CERTIFICATE OF OCCUPANCY/COMPLETION.
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- FOR PROJECTS WITHIN CITIES, DEVELOPER SHALL PROVIDE A MAINTENANCE BOND TO DEKALB COUNTY FOR WATERSHED UTILITIES PRIOR TO APPROVAL OF ASBUILT PLANS.
- CONTRACTOR MUST JET CLEAN & TV SANITARY SEWER LINES AFTER CONNECTIONS ARE MADE TO THE EXISTING SEWER TIE-IN POINTS. TRACER WIRE TO BE INSTALLED FOR PVC PIPES.
- CONTRACTOR MUST NOTIFY WATER & SEWER CONSTRUCTION INSPECTOR AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

DISTRICT 15:	LONNIE KELLEY	(404)371-2149
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- ALL WATER MAINS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES TO BE DEDICATED TO OR OWNED BY DCDWM, SHALL BE INSTALLED ACCORDING TO THE APPROVED DESIGN. ALL FIELD CHANGES MUST BE APPROVED BY DCDWM. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, AND A COPY OF THE DESIGN STANDARDS, MOST CURRENT EDITION, ON SITE AT ALL TIMES.
- ALL MECHANICAL JOINT DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AND MEETING THE LATEST REQUIREMENTS OF AWWA C151/A21.51.
- ALL VALVES WHICH ARE TO BE BURIED IN THE GROUND SHALL BE PROVIDED WITH A VALVE BOX AND COVER.
- GATE VALVES SHALL CONFORM TO AWWA C500 (LATEST EDITION) FOR DOUBLE-DISC GATE VALVES, OR AWWA C509 (LATEST EDITION) FORE RESILIENT-SEATED GATE VALVES, AND SHALL BE MANUFACTURED BY AMERICAN FLOW CONTROL, US PIPE, MUELLER, CLOW, OR APPROVED EQUAL.
- GATE VALVES SHALL BE HAND OPERATED, NON-RISING STEM, WITH CAST OR DUCTILE IRON BODIES, AND ADAPTED FOR JOINTS AS INDICATED IN THE APPROVED DESIGN DRAWINGS.
- ALL TAPPING SLEEVES MUST COMPLY WITH THE LATEST ANSI STANDARD 200 PSI WORKING PRESSURE FOR WATER MAINS OF 12 INCH DIAMETER OR LARGER AND 150 PSI FOR WATER MAINS OF DIAMETER LESS THAN 12 INCHES. TAPPING SLEEVES SHALL BE CAST IRON OR DUCTILE IRON WITH MECHANICAL JOINT ENDS.
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DEKALB COUNTY BACKFLOW PREVENTION NOTES:

- 1.5" RPZ IS REQUIRED ON 1.5" IRRIGATION LINE, ABOVE GROUND IN A WEATHER PROTECTIVE BOX (SEE DCDWM STANDARDS).
- 1"RPZ IS REQUIRED ON 1" IRRIGATION LINE, ABOVE GROUND IN A WEATHER PROTECTIVE BOX (SEE DCDWM STANDARDS).
- ALL BACKFLOW DEVICES MUST BE INSTALLED PER DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT STANDARDS AS CLOSE AS PRACTICAL TO PROPERTY LINE, OUT OF RIGHT-OF-WAY
- CALL FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION OF BACKFLOW DEVICES AT (404)687-4075
- CONTRACOT TO PURCHASE AND INSTALL ALL BACKFLOW DEVICES PER DCDWM STANDARDS.

DEKALB COUNTY SEWER NOTES:

- AT NO TIME WILL ANY GRAVITY SANITARY SEWER CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF ALL PLANS, RECEIPT OF ALL REQUIRED DOCUMENTS INCLUDING NECESSARY EASEMENTS, ISSUANCE OF SANITARY SEWER CONSTRUCTION PERMIT TO APPROVED CONTRACTOR BY DCDWM AND A PRECONSTRUCTION CONFERENCE HELD WITH A DCDWM INSPECTOR .
- ALL GRAVITY SANITARY SEWER LINES, MANHOLES AND OTHER APPURTENANCES TO BE GOVERNED BY DCDWM SHALL BE INSTALLED ACCORDING TO APPROVED PLANS AND PROFILES. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, A COPY OF THE DESIGN STANDARDS, CURRENT EDITION, ON SITE AT ALL TIMES.
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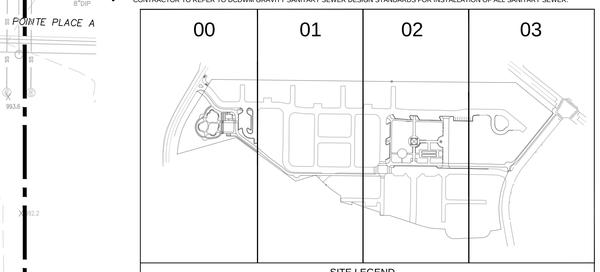

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NORTH

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RENAISSANCE PARKS
DUNWOODY, GA 30346

UTILITY PLAN

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COMMUNITY DEVELOPMENT
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(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C6-02

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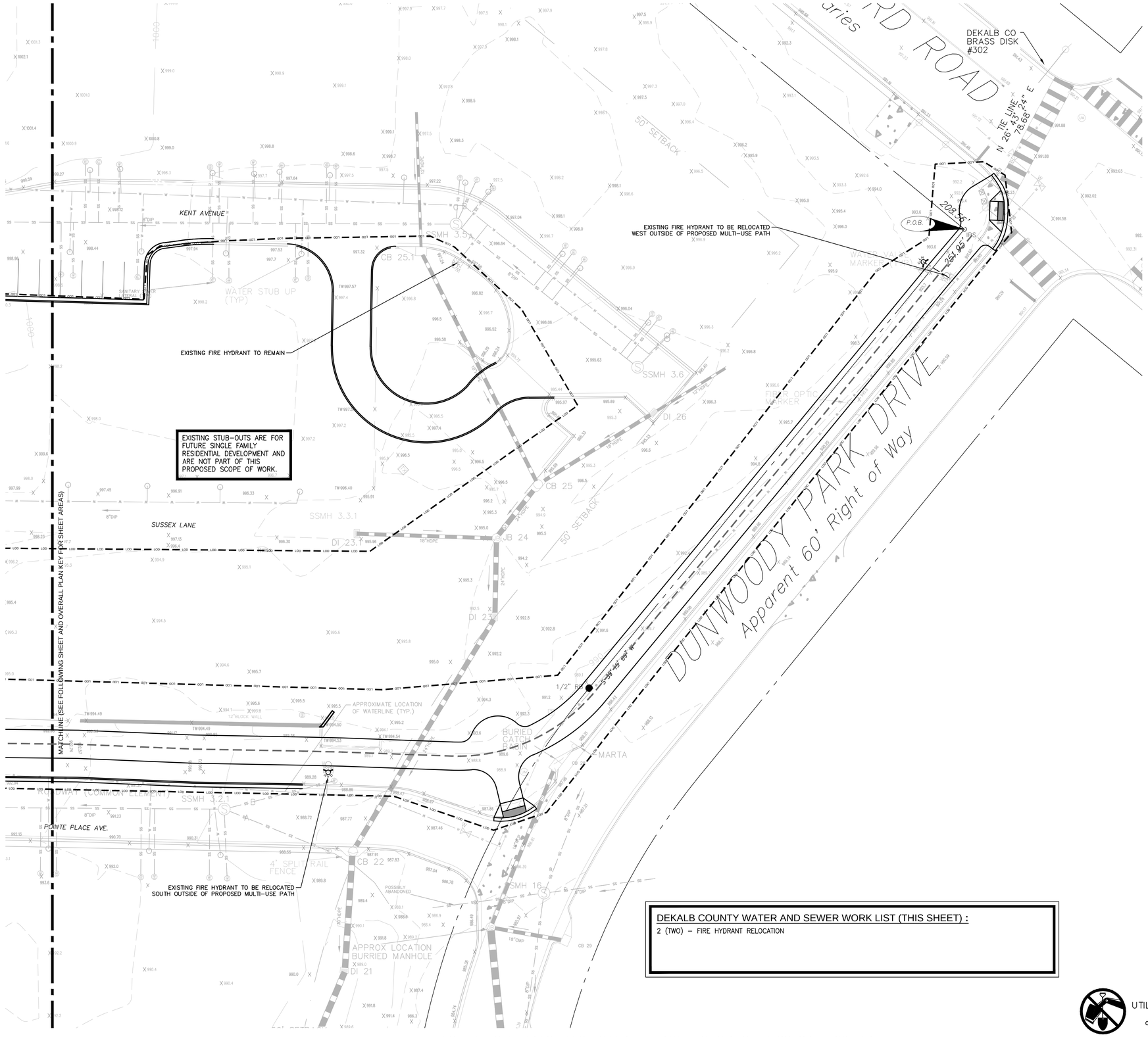

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- ALL BENDS ARE TO BE PROPERLY BRACED WITH BLOCKING ACCORDING TO DCDWM SPECIFICATION. SEE BLOCKING DETAILS IN CONSTRUCTION DETAILS OR DCDWM DESIGN STANDARDS 2009 EDITION, VERSION 1.0.
- ALL CONNECTIONS TO DEKALB COUNTY WATER SYSTEM MUST HAVE AN APPROPRIATE BACKFLOW DEVICE.

DEKALB COUNTY BACKFLOW PREVENTION NOTES:

- 1.5" RPZ IS REQUIRED ON 1.5" IRRIGATION LINE, ABOVE GROUND IN A WEATHER PROTECTIVE BOX (SEE DCDWM STANDARDS).
- 1"RPZ IS REQUIRED ON 1" IRRIGATION LINE, ABOVE GROUND IN A WEATHER PROTECTIVE BOX (SEE DCDWM STANDARDS).
- ALL BACKFLOW DEVICES MUST BE INSTALLED PER DEKALB COUNTY DEPARTMENT OF WATERSHED MANAGEMENT STANDARDS AS CLOSE AS PRACTICAL TO PROPERTY LINE, OUT OF RIGHT-OF-WAY
- CALL FOR BACKFLOW INSPECTION PRIOR TO INSTALLATION OF BACKFLOW DEVICES AT (404)687-4075
- CONTRACOT TO PURCHASE AND INSTALL ALL BACKFLOW DEVICES PER DCDWM STANDARDS.

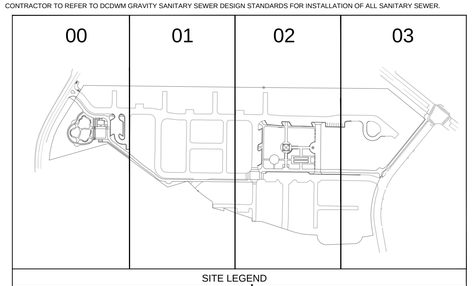
DEKALB COUNTY SEWER NOTES:

- AT NO TIME WILL ANY GRAVITY SANITARY SEWER CONSTRUCTION COMMENCE PRIOR TO APPROVAL OF ALL PLANS, RECEIPT OF ALL REQUIRED DOCUMENTS INCLUDING NECESSARY EASEMENTS, ISSUANCE OF SANITARY SEWER CONSTRUCTION PERMIT TO APPROVED CONTRACTOR BY DCDWM AND A PRECONSTRUCTION CONFERENCE HELD WITH A DCDWM INSPECTOR .
- ALL GRAVITY SANITARY SEWER LINES, MANHOLES AND OTHER APPURTENANCES TO BE GOVERNED BY DCDWM SHALL BE INSTALLED ACCORDING TO APPROVED PLANS AND PROFILES. CONTRACTOR MUST HAVE A SET OF THE APPROVED DESIGN CONTAINING AN ORIGINAL DCDWM STAMP, A COPY OF THE DESIGN STANDARDS, CURRENT EDITION, ON SITE AT ALL TIMES.
- CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS, ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THE CONDUCT OF THE WORK, INCLUDING BUT NOT LIMITED TO INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- SANITARY SEWER CONSTRUCTION SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT LINES, SANITARY SEWERS OR STRUCTURES FROM UNUSUAL STRESSES.
- CONTRACTOR SHALL PROVIDE FOR THE FLOW OF ALL SANITARY SEWERS OR DRAINS INTERRUPTED DURING THE PROGRESS OF THE WORK AND SHALL RESTORE SAME TO A PRECONSTRUCTION CONDITION.
- AT THE START OF CONSTRUCTION CONTRACTOR SHALL INSTALL AN AIR PLUG IN THE FIRST PIPE LAID OUT OF THE ENTRANCE MANHOLE AND IN THE DOWNGRADE SIDE OF THE FIRST NEWLY INSTALLED MANHOLE. SAID PLUGS SHALL REMAIN IN PLACE UNTIL FINAL INSPECTION AND APPROVAL IS GIVEN BY DCDWM. CONTRACTOR MUST EXERCISE EXTREME CAUTION TO ENSURE PLUGS ARE NOT LOST INTO THE GRAVITY SANITARY SEWER SYSTEM.
- THE CONTRACTOR MUST COMPLY WITH ALL REQUIREMENTS OF THE DEKALB COUNTY SOIL EROSION AND SEDIMENT CONTROL ORDINANCE, THE PROVISIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL N GEORGIA," AND ANY SPECIAL CONDITION REQUIRED BY THE EPD ASSOCIATED WITH ANY VARIANCES ISSUED BY THE SAME, AND ANY SPECIAL CONDITIONS REQUIRED BY THE DCDWM INSPECTOR.
- GRAVITY SANITARY SEWER LINES SHALL BE EITHER PVC, DUCTILE IRON PIPE, OR HDPE.
- ALL SANITARY SEWERS PIPE AND FITTINGS SHALL BE MARKED IN ACCORDANCE WITH THE LATEST ASTM/ANSI DESIGNATIONS. PIPE MARKINGS SHALL APPEAR AT INTERVALS OF FIVE (5) FEET OR LESS ON PIPE BARREL.
- REFER TO DCDWM STANDARD MANUAL FOR ACCEPTABLE MATERIAL CLASSIFICATIONS.
- MANHOLES SHALL BE PRECAST REINFORCED CONCRETE CONSTRUCTION MADE IN CONFORMANCE WITH THE LATEST EDITION OF ANSI/ASTM C478. THE MINIMUM WALL THICKNESS FOR A FOUR FOOT DIAMETER MANHOLE IS FIVE INCHES.
- ALL EXCAVATION SHALL BE OPEN CUT UNLESS OTHERWISE INDICATED ON THE APPROVED DESIGN OR DIRECTED BY DCDWM. EXCAVATION BELOW TOPSOIL MAY BE PERFORMED BY MACHINE, BUT SHALL BE SUPPLEMENTED BY SUCH HAND DRESSING OR LEVELING AS MAY BE REQUIRED TO CONFORM TO THE LINES AND GRADES AS GIVEN BY DCDWM. REFER TO DCDWM TRENCH DETAIL IN CONSTRUCTION DETAILS.
- THE FLOW IN SANITARY SEWERS, DRAINS, GUTTERS, OR WATER COURSES ENCOUNTERED DURING CONSTRUCTION SHALL BE ADEQUATELY PROVIDED FOR BY THE CONTRACTOR TO ENSURE THESE FLOWS DO NOT INTERFERE WITH THE PROSECUTION OF WORK, AND ARE MAINTAINED IN SUCH A WAY TO ENSURE CONTINUITY OF FLOW.
- IF RAW SEWAGE IS ENCOUNTERED DURING PERFORMANCE OF THE WORK, THE CONTRACTOR MUST IMMEDIATELY STOP WORK AND SHALL NOTIFY DCDWM.
- BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATION SECTION 812, TYPE II FOUNDATION BACKFILL.
- CONTRACTOR TO REFER TO DCDWM GRAVITY SANITARY SEWER DESIGN STANDARDS FOR INSTALLATION OF ALL SANITARY SEWER.

DEKALB COUNTY WATER AND SEWER WORK LIST (THIS SHEET) :

2 (TWO) – FIRE HYDRANT RELOCATION

NOTE: ALL SANITARY CLEANOUTS AND WATER VALVES TO BE SET IN CONCRETE COLLAR.



SITE LEGEND

UTILITIES PROTECTION CENTER, INC.
1 (800) 282-7411 Throughout Georgia
OUTSIDE GEORGIA Call Collect (770) 325-5000

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

UTILITY PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C6-03

Drawing name: K:\ATL_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C7-00_UTILITY.dwg C6-03 Jan 16, 2013 4:20pm by: aaron.legg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NO PROPOSED DRAINAGE GREATER THAN 12 INCH HDPE.

SECONDARY DRAINAGE NOT PROFILED.

Drawing name: K:\AMT_URO\019124002_Dunwoody Ren Parks\CADD\CONSTR\C8-00_PROFILES.dwg C7-00 Jan 16, 2013 4:20pm by: aaron.legg

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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

SEWER PROFILES - STORM

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET -
ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
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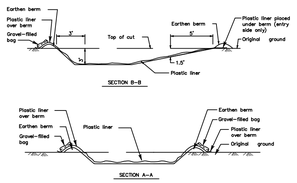
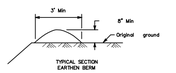
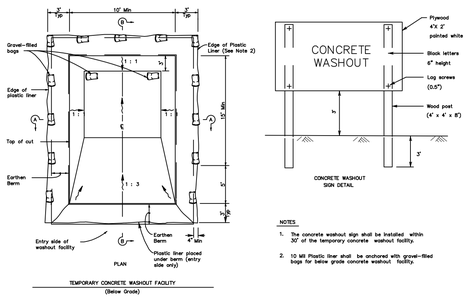
C7-00





TYPICAL SECTION
EARTHEN BERM

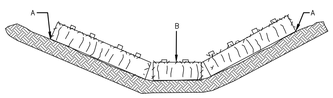


TEMPORARY CONCRETE WASHOUT FACILITY
(Below Grade)

NOTES

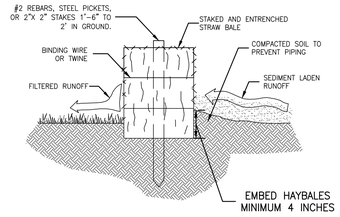
1. The concrete washout sign shall be installed within 30' of the temporary concrete washout facility.
2. 10 Mil Plastic liner shall be anchored with gravel-filled bags for below grade concrete washout facility.

CONCRETE WASHOUT DETAIL



POINTS A SHOULD BE HIGHER POINT B

PROPER PLACEMENT OF STRAW BALE
BARRIER IN DRAINAGE WAY



PROPERLY INSTALLED STRAW BALE
(CROSS SECTION)

Hb HAYBALE BARRIER
N.T.S.

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N–P–K	RATE	N TOP DRESSING RATE
1. Cool season grasses	First Second Maintenance	6–12–12 0–10–10 10–10–10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50–100 lbs./ac. 1/ 2/ 30
2. Cool season grasses and legumes	First Second Maintenance	6–12–12 0–10–10 0–10–10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0–50 lbs./ac. 1/ – –
3. Ground covers	First Second Maintenance	10–10–10 10–10–10 10–10–10	1300 lbs./ac. 3/ 1000 lbs./ac. 3/ 1100 lbs./ac.	– – –
4. Shrub Lespedeza	First Maintenance	0–10–10 0–10–10	700 lbs./ac. 700 lbs./ac. 4/	–
5. Temporary cover crops seeded alone	First	10–10–10	500 lbs./ac.	30 lbs./ac. 5/
6. Warm season grasses	First Second Maintenance	6–12–12 0–10–10 10–10–10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50–100 lbs./ac. 2/ 6/ 50–100 lbs./ac. 2/ 30 lbs./ac.
7. Warm season grasses and legumes	First Second Maintenance	6–12–12 0–10–10 0–10–10	1000 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac. 6/

1/ Apply in spring following seeding.
2/ Apply in split applications when high rates are used.
3/ Apply in 2 split applications.
4/ Apply when plants are pruned.
5/ Apply to grass seeding only.
6/ Apply when plants grow to a height of 2 to 4 inches.

MULCHING RATES:
1. DRY STRAW: 2 TONS PER ACRE.
2. DRY HAY: 2–1/2 TONS PER ACRE.
3. FOR HYDRAULIC SEEDING USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE.

FERTILIZER AND MULCHING REQUIREMENTS Ds1

SPECIES	BROADCAST PER ACRE	BROADCAST PER 1000 S.F.	RESOURCE AREA	PLANTING DATES J F M A M J J A S O N D	REMARKS
BARLEY			M–L 4/ P C		14,000 SEED PER POUND WINTERHARDY. USE ON PRODUCTIVE SOILS.
ALONE IN MIXTURES	144 LBS. 24 LBS.	3.3 LBS. 0.6 LBS.			
LESPEDEZA, ANNUAL			M–L P C		200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS USE INOCULANT EL.
ALONE IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.			
LOVEGRASS, WEEPING			M–L P C		1,500,000 SEED PER POUND. MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA
ALONE IN MIXTURES	4 LBS. 2 LBS.	0.1 LBS. 0.05 LBS.			
MILLET, BROWNTOP			M–L P C		137,000 SEED PER POUND. QUICK GROWING COVER. WILL PROVIDE SOME COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
ALONE IN MIXTURES	40 LBS. 10 LBS.	0.9 LBS. 0.2 LBS.			
RYE			M–L P C		18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
ALONE IN MIXTURES	3 BU 1/2 BU	3.9 LBS. 0.6 LBS.			
RYEGRASS, ANNUAL			M–L P C		227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.
ALONE	40 LBS.	0.9 LBS.			

M–L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST. FLATWOODS MLRA'S

DISTURBED AREA STABILIZATION (TEMP) Ds2

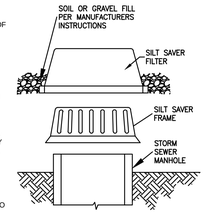
SPECIES	BROADCAST PER ACRE	BROADCAST PER 1000 S.F.	RESOURCE AREA	PLANTING DATES J F M A M J J A S O N D	REMARKS
BERMUDA, COMMON HULLED SEED			P C		1,787,000 SEED PER POUND. AGG. SOD FORMER. DROUGHT AND SALT TOLERANT. GOOD FOR ATHLETIC FIELDS
ALONE WITH OTHER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.			
BERMUDA, COMMON UNHULLED SEED W/ TEMP COVER PERENNIALS	10 LBS. 6 LBS.	0.2 LBS. 0.1 LBS.	P C		PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE
CENTIPEDE	BLOCK SOD ONLY		P C		DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CURBS, ANGLE–CONSTRUCTED LAND. RARELY ESTABLISHED BY SEED PLANT NEAR PASTURES.
CROWNVETECH WITH WINTER ANNUALS OR SOD SEASON GRASSES	15 LBS.	0.3 LBS.	M–L P		100,000 SEED PER POUND. DENSE GROWTH. DROUGHT TOLERANT AND FIRE RESISTANT. NOT HARDY FROM NORTH ATLANTA AND NORTHWARD.
FESCUE, TALL ALONE W/ OTHER PERENNIALS	50 LBS 30 LBS	1.1 LBS. 0.7 LBS.	M–L P		227,000 SEED PER POUND. USE ALONE OR WITH BETTER SEED. NOT FOR DROUGHTY SOILS. NOT FOR HEAVY USE
LESPEDEZA SCARIFIED UNSCARIFIED	60 LBS. 75 LBS.	1.4 LBS. 1.7 LBS.	M–L P C		300,000 SEED PER POUND. HEIGHT OF GROWTH 3' TO 4'. USE IN MIXTURES IN THE AREA WHERE MIX W/ KEEPING LOVEGRASS, COMMON BERMUDA GRASS, TALL FESCUE, OR WINTER ANNUALS. INOCULATE SEED W/ EL INOCULANT.

M–L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
P REPRESENTS THE SOUTHERN PIEDMONT MLRA
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST. FLATWOODS MLRA'S

NOTE:
AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE

DISTURBED AREA STABILIZATION (PERM) Ds3

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW. THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTERPOCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACKFILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACKFILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.
6. THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.



INLET SEDIMENT TRAP - SILT SAVER Sd2–SS
NO SCALE

TEMPORARY METHODS:
MULCHES – REFER TO Ds1 (DISTURBED AREA STABILIZATION)

VEGETATIVE COVER – REFER TO Ds2 (DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING)

TILLAGE – ROUGHEN AND BRING CLODS TO THE SURFACE BY USE OF CHISEL–TYPE PLOWS SPACED ABOUT 12 INCHES APART

IRRIGATION – SITE SPRINKLED WITH WATER UNTIL WET. REPEAT AS NEEDED

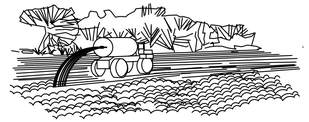
BARRIERS – FENCES, HAY BALES, AND CRATE WALLS PLACED AT INTERVALS 15 TIMES THEIR HEIGHT AND PERPENDICULAR TO AIR CURRENTS

CALCIUM CHLORIDE – APPLY TO KEEP SURFACE WET. REPEAT AS NEEDED.

PERMANENT METHODS:
PERMANENT VEGETATION – REFER TO Ds3 (DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION)

TOPSOILING – COVERING THE SURFACE WITH A LESS EROSIVE SOIL MATERIAL

STONE – SURFACE WITH CRUSHED STONE OR COARSE GRAVEL (SEE Cr – CONSTRUCTION ROAD STABILIZATION)



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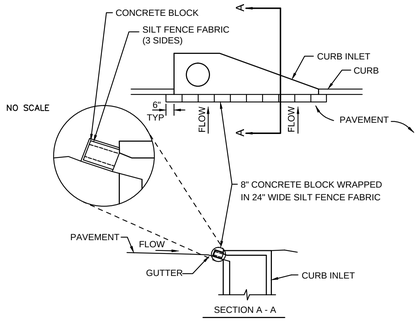
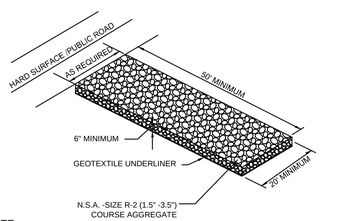
NOT TO SCALE



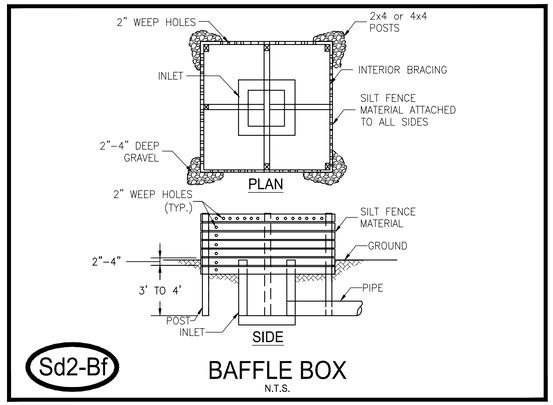
NO SCALE

INLET SEDIMENT TRAP (PIGS IN A BLANKET) Sd2–P
NO SCALE



NOTE:
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION EXIT Co
NO SCALE



Sd2-Bf

BAFFLE BOX
N.T.S.

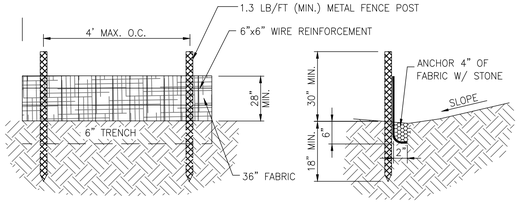
Storage Calculations

1. Required stormwater storage = 2536 cy (as determined by local ordinance)
2. Required sediment storage = 335 cy (67 cy/ac * 5.0 ac disturbed area)
3. Total required storage = 2536 + 335 = 2871 cy
4. Available storage = 3000 cy
5. Is the available storage (4) greater than the total required storage (3)?
   X yes ____ no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
   N/A Raise the invert of the outlet structure _____ inches
   N/A Undercut the pond _____ feet
   N/A Other _____
7. Clean-out elevation = 980.63 ft (Elevation corresponding to 22 cy/ac * 3.81 ac disturbed area)
8. Is the length-width ratio 2:1 or greater?
   X yes ____ no
9. If "no", the length of flow must be increased. Choose the method to be used:
   N/A Baffles (Type of baffle: _____)
   N/A Other _____

Note the CPM diameter and height if a half-round CMP retrofit is to be used.
Diameter = 30 inches Height = 4 feet

* EXISTING POND IS CURRENTLY RETROFITTED. PROPOSED PROJECT WILL MAINTAIN EXISTING RETROFIT

RETRO-FIT Rt-P



SILT FENCE TO MEET THE REQUIREMENTS OF SECTION 171–TEMPORARY SILT FENCE, OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1993. WIRE REINFORCEMENT IS REQUIRED FOR TYPE C SILT FENCE. SILT FENCE TO HAVE MIN. 5'–LONG STEEL POSTS SECTION WITH MIN. WT. 1.3 LB/LF. ATTACH WIRE TO POSTS AND FABRIC TO WIRE BACKING AT MIDPOINT BETWEEN POSTS WITH WING WIRE TIES. INSTALLER SHALL ENSURE ALL MATERIALS MEET D.O.T. SPECIFICATIONS AND IS ON D.O.T. QUALIFIED PRODUCTS LIST # 36.

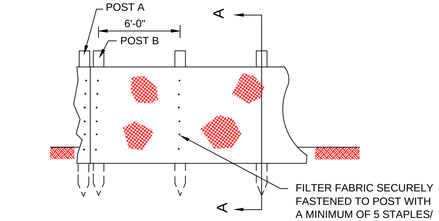
TYPE C SILT FENCE IS 36" WIDE WITH WIRE REINFORCEMENT. TYPE C SILT FENCE SHALL BE USED WHERE RUNOFF FLOWS OR VELOCITIES ARE PARTICULARLY HIGH OR WHERE SLOPES EXCEED A VERTICAL HEIGHT OF 10 FT.

PROVIDE A RIPRAP SPLASH PAD OR OTHER OUTLET PROTECTION DEVICE FOR ANY POINT WHERE FLOW MAY TOP THE SEDIMENT FENCE. ENSURE THAT THE MAXIMUM HEIGHT OF THE FENCE AT A PROTECTED, REINFORCED OUTLET DOES NOT EXCEED 1 FOOT AND THAT SUPPORT POST SPACING DOES NOT EXCEED 4 FEET.

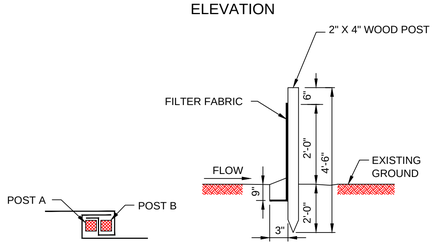
MAINTENANCE REQUIREMENTS:

1. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE–HALF THE ORIGINAL HEIGHT OF THE BARRIER.
2. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS).
3. TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
4. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

TYPE "C" REINFORCED SILT FENCE Sd1
NO SCALE



ELEVATION



JOINING DETAIL

SECTION A-A

TYPE "A" SILT FENCE Sd1
N.T.S.

Drawing name: K:\AMT_URC\019124002_Dunwoody Ren Parks\CADD\CONSTR\C9-00_DETAILS_019124002.dwg C8-00 Jan 16, 2013 4:21pm by: aaron.lega
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SUITE 601
ATLANTA, GEORGIA 30308-1121
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Fax: (404) 419-8701

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NO.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

EROSION CONTROL DETAILS

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

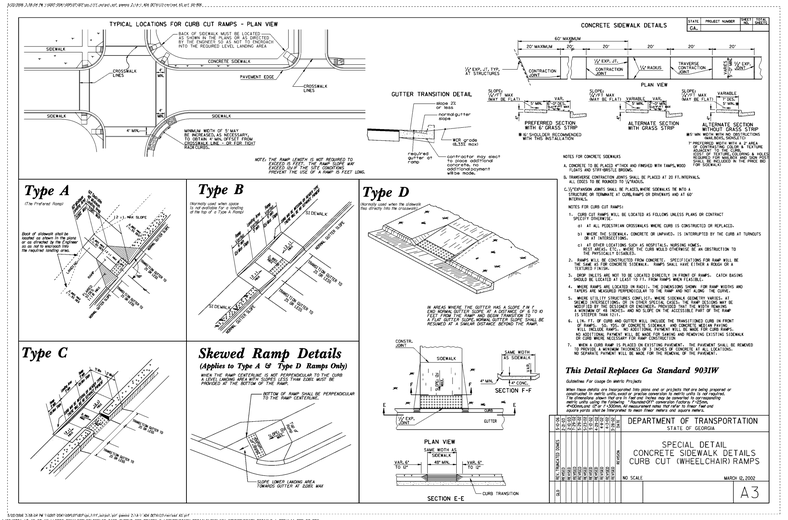
SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

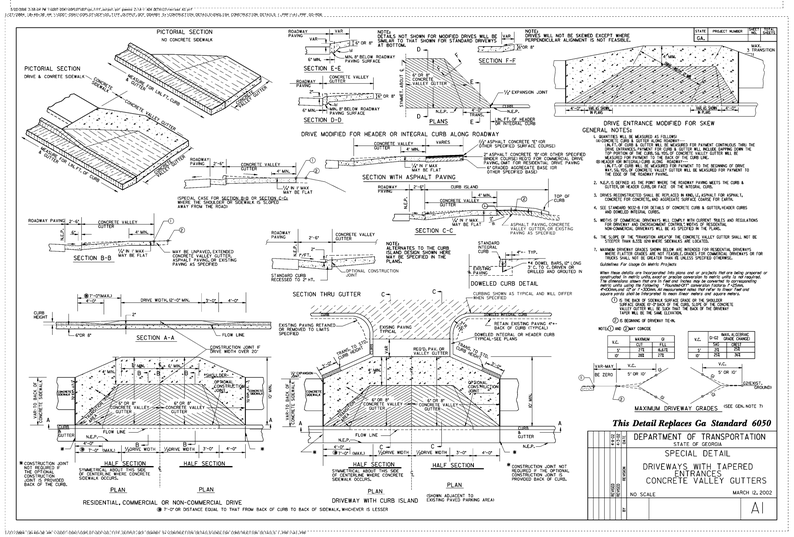
SHEET NUMBER
C8-00

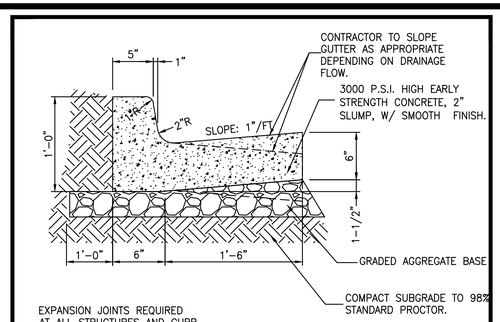
GSWCC Georgia Soil and Water Conservation Commission

JOSEPH E. DAVIS
Level II Certified Design Professional

CERTIFICATION NUMBER 0000020670
ISSUED: 10/21/2012 EXPIRES: 10/21/2015

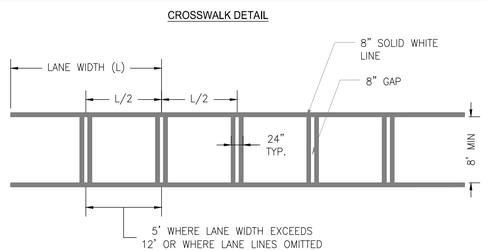






24" CURB AND GUTTER

N.T.S.

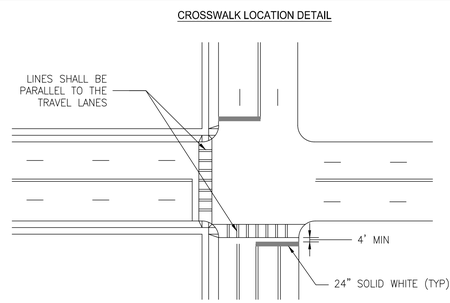


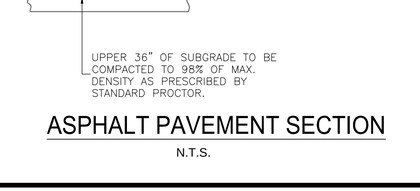
NOTES:

1. SEE CROSSWALK DETAIL FOR DESIGN OF CROSSWALK.
2. WHEEL CHAIR RAMPS ARE REQUIRED IN CURB AND CURB & GUTTER SECTIONS.
3. CROSSWALK SHALL BE A MINIMUM OF 8' WIDE OR WIDTH OF SIDEWALK, WHICHEVER IS GREATER.

CROSSWALK

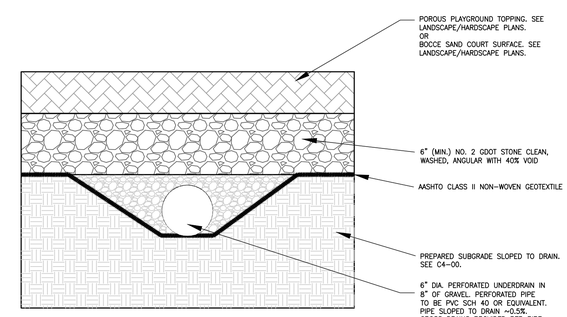
N.T.S.





ASPHALT PAVEMENT SECTION

N.T.S.



POROUS PLAYGROUND AND BOCCE COURT UNDERDRAIN SECTION

N.T.S.

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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

CONSTRUCTION DETAILS

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BID SET -
ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12

KHA PROJECT NO.:
019124002

SHEET NUMBER
C8-01

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C8-00_DETAILS_019124002.dwg C8-01 Jan 16, 2013 4:21pm by: aaron.legg
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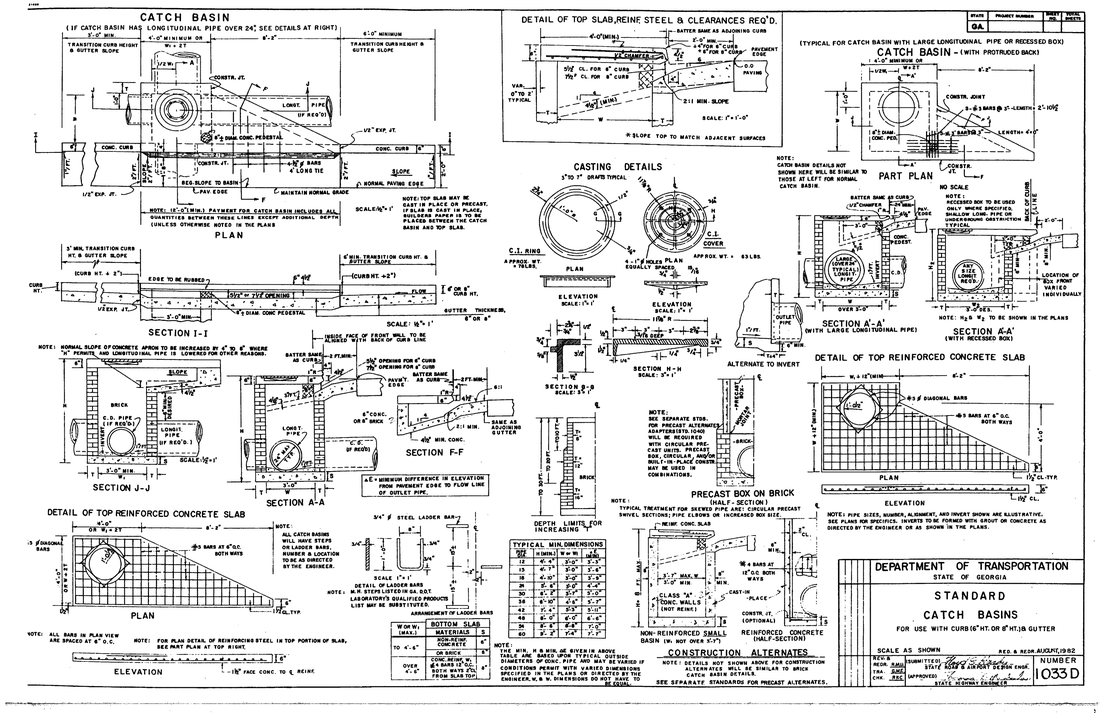

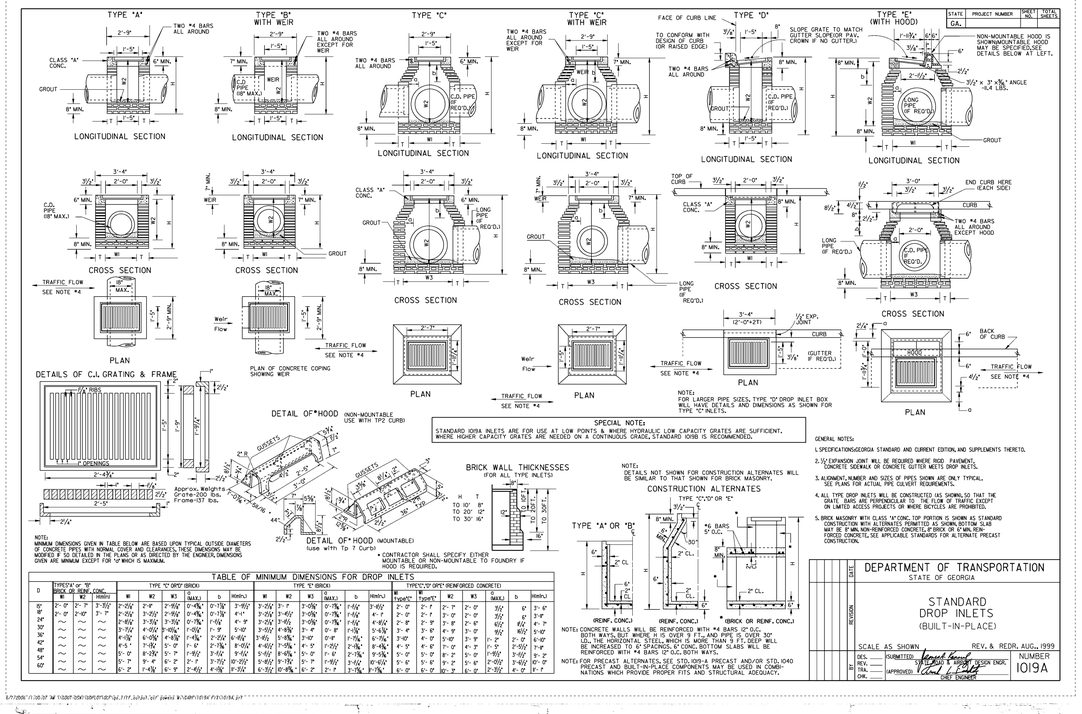

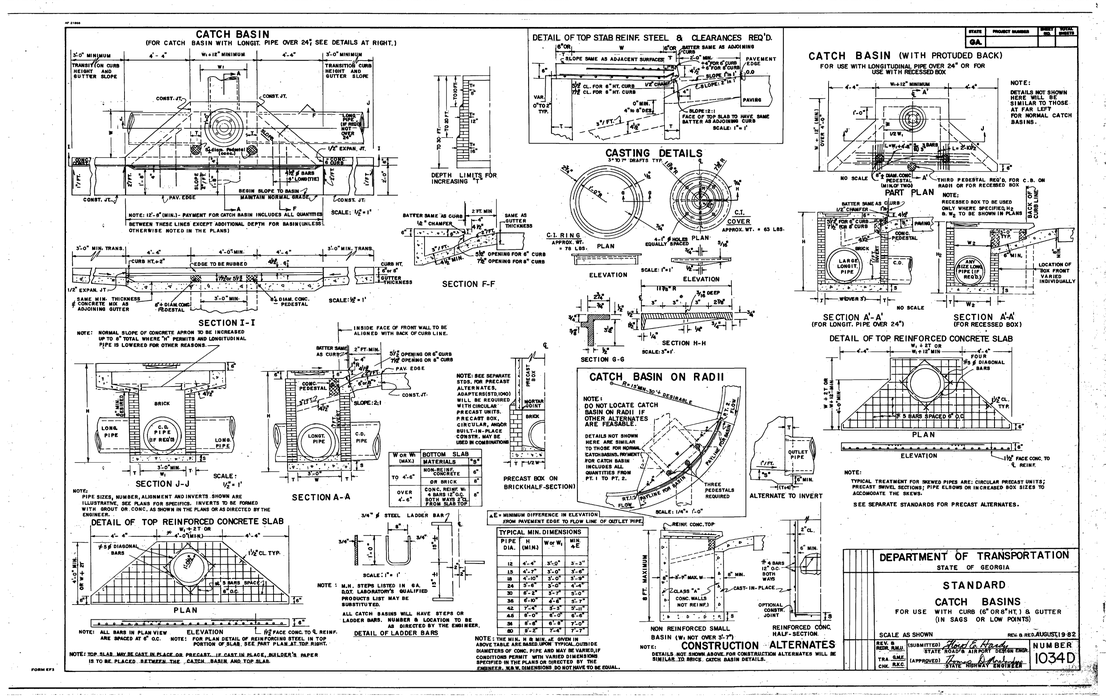

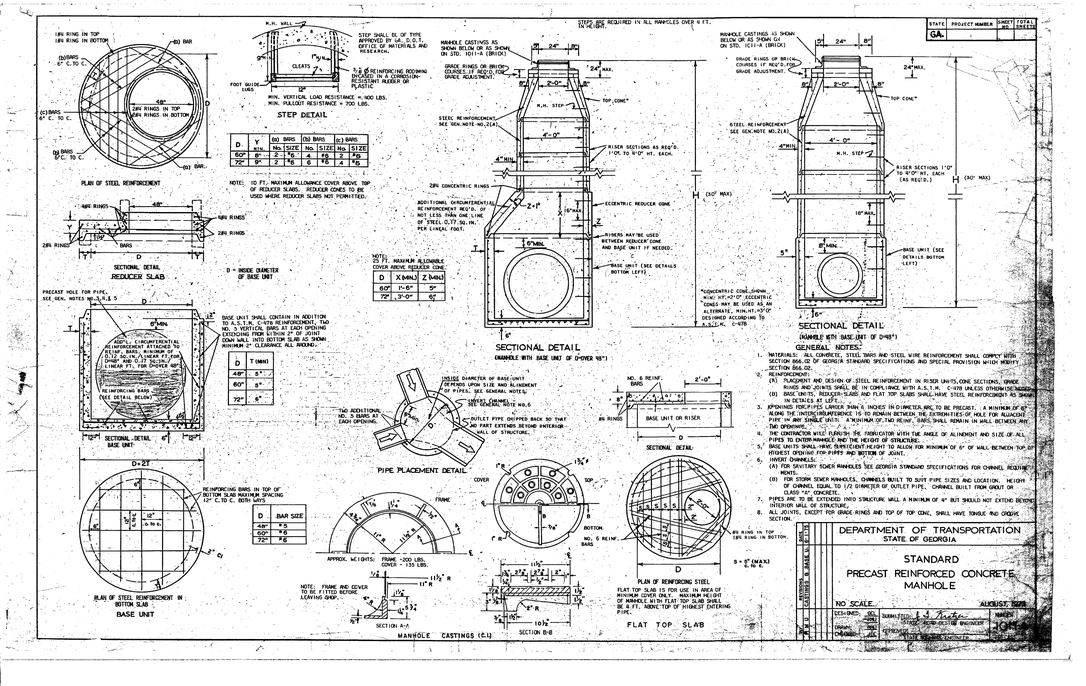

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CONSTRUCTION DETAILS

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SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002
SHEET NUMBER	C8-02

Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\C9-00_DETAILS_019124002.dwg C8-02 Jan 16, 2013 4:21pm by: aaron.legg
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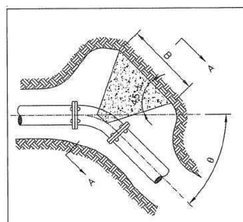


FITTING θ	(IN)	B (FT)	H (FT)	C (FT)	VOL (YD^3)
11–1/4	6	0.9	0.8	0.45	0.010
	8	1.2	1.1	0.60	0.022
	10	1.5	1.3	0.75	0.041
	12	1.8	1.6	0.90	0.071
	16	2.3	2.2	1.15	0.149
22–1/2	6	1.3	1.1	0.65	0.023
	8	1.6	1.6	0.80	0.048
	10	2.1	1.9	1.05	0.097
	12	2.5	2.3	1.25	0.165
	16	3.3	3.0	1.65	0.362
45	6	1.7	1.6	0.85	0.050
	8	2.2	2.2	1.10	0.113
	10	2.8	2.7	1.40	0.222
	12	3.3	3.3	1.65	0.375
	16	4.5	4.3	2.25	0.887
90	6	2.3	2.2	1.15	0.118
	8	3.1	2.9	1.55	0.278
	10	3.8	3.7	1.90	0.530
	12	4.6	4.4	2.30	0.921
	16	6.1	5.9	3.05	2.142
TEES	6	2.1	1.8	1.00	0.073
	8	2.6	2.5	1.30	0.170
	10	3.2	3.1	1.60	0.319
	12	3.9	3.7	1.95	0.565
	16	5.1	5.0	2.55	1.303

NOTES:

1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management

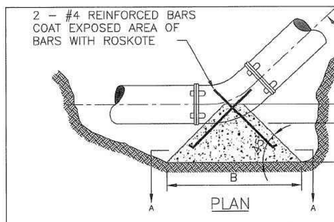
STANDARD DETAILS

Blocking Detail Horizontal Thrust

NOT TO SCALE

11/07

DETAIL NO. W-009



FITTING θ	DIA (IN)	B (FT)	H (FT)	VOL (YD^3)
11–1/4	6	1.0	0.3	0.008
	8	1.2	0.4	0.012
	10	1.5	0.6	0.026
	12	1.9	0.8	0.055
	16	2.4	1.0	0.110
22–1/2	6	1.3	0.5	0.017
	8	1.7	0.7	0.039
	10	2.1	0.9	0.075
	12	2.5	1.1	0.129
	16	3.2	1.6	0.308
45	6	1.7	0.7	0.039
	8	2.2	0.9	0.083
	10	2.7	1.2	0.164
	12	3.3	1.5	0.305
	16	4.3	2.0	0.688

NOTE:

1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI, A DEPTH OF COVER OF 4 FT., AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management

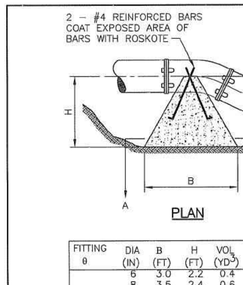
STANDARD DETAILS

Blocking Detail Downward Thrust

NOT TO SCALE

11/07

DETAIL NO. W-010



FITTING θ	DIA (IN)	B (FT)	H (FT)	VOL (YD^3)
11–1/4	6	3.0	2.2	0.4
	8	3.5	2.4	0.6
	10	4.0	3.2	1.0
	12	4.5	3.5	1.4
	16	5.0	4.8	2.4
22–1/2	6	3.5	2.9	0.7
	8	4.0	3.9	1.2
	10	4.5	4.6	1.9
	12	5.5	4.8	2.7
	16	6.5	5.9	4.8
45	6	4.5	3.4	1.3
	8	5.0	4.6	2.2
	10	6.0	5.1	3.5
	12	6.5	6.2	5.0
	16	8.0	7.3	8.8

NOTES:

1. VOLUME WAS CALCULATED NEGLECTING WEIGHT OF FITTING, WATER, AND BACKFILL USING A STATIC PRESSURE OF 250 PSI.
2. DIMENSIONS OF BLOCK WERE CALCULATED ASSUMING A SOIL BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT.
3. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management

STANDARD DETAILS

Blocking Detail Upward Thrust

NOT TO SCALE

11/07

DETAIL NO. W-011

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE• 3/4" THROUGH 2" METER SIZE• THROUGH 2"
REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) ASSEMBLY

SPECIFICATIONS: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP), IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE LINE. THE RPZ BFP ASSEMBLY SHALL INCLUDE A FULL PORT BALL VALVE ON THE INLET AND OUTLET SIDES WITH A UNION BETWEEN THE DEVICE AND EACH VALVE. THE DEVICE SHALL HAVE THREE (3) TEST COCKS IN AN ACCEPTABLE POSITION FITTED WITH BRASS OR PLASTIC PLUGS. A FOURTH TEST COCK SHALL BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUTOFF VALVE. A STRAINER SHALL BE INSTALLED IMMEDIATELY UPSTREAM OF THE BFP, UNLESS THE BFP IS DIRECTLY DOWNSTREAM OF THE METER. ALL COMPONENTS OF THE ASSEMBLY SHALL BE EQUIVALENT TO BRONZE OR STAINLESS STEEL CONSTRUCTION AND ASSEMBLED WITH BOLTS THAT ARE RESISTANT TO ELECTROLYSIS.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY, THE RPZ DEVICE SHALL HAVE CURRENT APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA- FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED. SHIPPED AND INSTALLED AS A UNIT.

INSTALLATION INSTRUCTIONS: THE RPZ BFP ASSEMBLY SHALL NOT BE INSTALLED BELOW GROUND. BUT INSTALLED ABOVE GROUND AS CLOSE AS PRACTICAL TO THE PROPERTY LINE OF THE PREMISES. AN ABOVE GROUND ENCLOSURE MUST BE PROVIDED FOR PROTECTION FROM FREEZING TEMPERATURES. INSTALL AN APPROVED DRAIN WITH AN AIR GAP WHERE RELIEF ZONE DISCHARGE BE ALLOWED BETWEEN THE SERVICE METER AND A BFP USED FOR SYSTEM CONTAINMENT UNLESS THIS CONNECTION IS PROTECTED BY AN APPROVED BFP.

CAUTION: SECTION 607.3, THERMAL EXPANSION CONTROL, OF THE INTERNATIONAL PLUMBING CODE, 2006, AS ADOPTED BY THE GEORGIA STATE PLUMBING CODE (COMBINED 2007 AND 2009 AMENDMENTS) SHOULD BE INCORPORATED IN THE DESIGN OF INSTALLATIONS AND DULY NOTED ON ALL APPLICABLE DRAWINGS PRIOR TO THE INSTALLATION OF ANY INLINE CHECKING DEVICE(S).

DEVICE TESTING: ALL RPZ ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION, AFTER EACH REPAIR AND AT LEAST ANNUALLY THEREAFTER.

INSTALLATION INSPECTION: CONTACT CROSS-CONNECTION CONTROL SECTION, AT 770-414-6180 FOR INSTALLATION INSPECTION.

APPROVED DEVICES: (OR EQUIVALENT)

CONBRACO	48-200 3/4", 1", 1 1/2", 2"
FEBCO	825, 825YA 3/4", 1", 1 1/2", 2"
WATTS	LF909-QT OR U-909-QT 3/4", 1", 1 1/2", 2"
WILKENS	475XL/U 3/4", 1", 1 1/2", 2"

APPROVED INSTALLATION OF REDUCED-PRESSURE-PRINCIPAL DEVICE

STANDARD INSTALLATION

1. ABOVE GROUND
2. IN BUILDING
3. IN BASEMENT

PROTECTIVE ENCLOSURE, GRADE, WATER METER, FLOW, SLEEVE (TYPICAL), DRAIN RECOMMENDED, DRAIN MANDATORY, MIN CLEARANCE 12 INCHES, 4" MIN GRAVEL

TO BE CONSIDERED UNDER VERY SPECIAL CIRCUMSTANCES, OWNER TO ASSUME FULL LIABILITY.

DEKALB COUNTY, GA. DEPARTMENT OF WATERSHED MANAGEMENT

STANDARD DETAILS

RPZ BFP Installation 3/4" to 2"

NOT TO SCALE

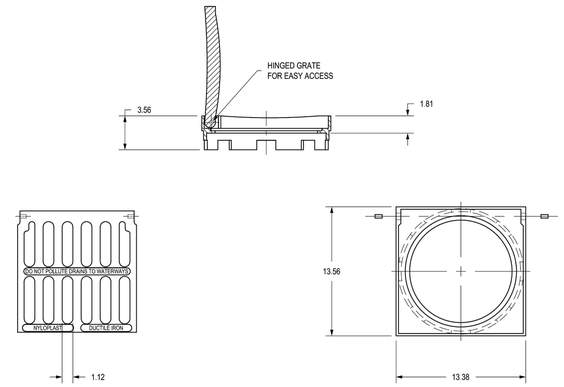
04/09

DETAIL NO. W-014

...\W-014 RPZ BFP Installation .75' to 2'.dgn 4/21/2011 11:39:23 AM

1299CGS

APPROX. DRAIN AREA = 60.62 SQ IN
APPROX. WEIGHT WITH FRAME = 40.68 LBS



ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-035

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DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-3-06		
APPD BY	CJA	PROJECT NO./NAME	
DATE	3-3-06		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 12 IN STANDARD GRATE ASSEMBLY

DWG NO. 7001-110-203 REV B

NYLOPLAST DRAIN BASIN

A	PART #	GRATE OPTIONS				
8"	2808AG	PEDESTRIAN/STANDARD	SOLID	BRONZE	DOME	DROP IN
10"	2810AG	PEDESTRIAN/STANDARD	SOLID	BRONZE	DOME	DROP IN
12"	2812AG	PEDESTRIAN	STANDARD	SOLID	BRONZE	DOME	DROP IN
15"	2815AG	PEDESTRIAN	STANDARD	SOLID	BRONZE	DOME	DROP IN
18"	2818AG	PEDESTRIAN	STANDARD	SOLID	N/A	DOME	DROP IN
24"	2824AG	PEDESTRIAN	STANDARD	SOLID	N/A	DOME	DROP IN
30"	2830AG	PEDESTRIAN	STANDARD	SOLID	N/A	DOME	N/A

① - 8" - 30" GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE 8" - 15" BRONZE GRATES
② - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
③ - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
④ - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
⑤ - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014.
6 - GRATES SHALL MEET H-10 LOAD RATING FOR 12" - 24" PED
7 - GRATES SHALL MEET H-20 LOAD RATING FOR 30" PED & 12" - 30" STD & SOLID
8 - ALL BRONZE GRATES, DROP IN GRATES, & 8" & 10" PED/STD GRATES & SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY
9 - DOME GRATES HAVE NO LOAD RATING

DRAWN BY	EBC	MATERIAL	
DATE	1-23-06		
APPD BY	CJA	PROJECT NO./NAME	
DATE	1-23-06		
DWG SIZE	A	SCALE NTS	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN WITH STANDARD GRATE
QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-144 REV D

Kimley-Horn and Associates, Inc.
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ATLANTA, GEORGIA 30308-1121
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Fax: (404) 419-8701

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	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
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	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
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	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

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RENAISSANCE PARKS
DUNWOODY, GA 30346

CONSTRUCTION DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002
SHEET NUMBER	C8-03

Drawing name: K:\AM_URG\019124002_Dunwoody, Ren Parks\CADD\CONSTR\C8-00_DETAILS_019124002.dwg C8-03 Jan 16, 2013 4:21pm by: aaron.legg
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MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS
SERVICE SIZE: THROUGH 2" METER SIZE: THROUGH 2"
DOUBLE CHECK VALVE (DCV) ASSEMBLY

SPECIFICATIONS: THE CUSTOMER/OWNER SHALL FURNISH AND INSTALL A DOUBLE CHECK VALVE ASSEMBLY (DCV) BACKFLOW PREVENTER (BFP) IN A SIZE TO MATCH THAT OF THE REQUIRED SERVICE METER. THE DCV BFP ASSEMBLY SHALL INCLUDE A FULL PORT BALL VALVE ON THE INLET AND OUTLET SIDES WITH A UNION OR SWIVEL COUPLING NUT BETWEEN THE DEVICE AND EACH VALVE. THE DEVICE SHALL HAVE THREE BALL VALVE TEST COCKS IN THE VERTICAL POSITION FITTED WITH BRASS OR PLASTIC PLUGS. A FOURTH TEST COCK SHALL BE PROVIDED ON THE UPSTREAM SIDE OF THE INLET SHUT-OFF VALVE. ALL COMPONENTS OF THE ASSEMBLY SHALL BE EQUIVALENT TO BRONZE OR STAINLESS STEEL CONSTRUCTION AND ASSEMBLED WITH BOLTS THAT ARE RESISTANT TO ELECTROLYSIS. ACCESS TO BOTH CHECKING DEVICES SHALL BE BY TOP AND/OR SIDE ENTRY FOR MAINTENANCE AND REPAIR OF ALL INTERIOR PARTS. VALVE HANDLES SHALL TURN UP TO CLOSE AND INBOARD (90 DEGREES) TO OPEN.

NOTE: ALL COMPONENTS OF THE ASSEMBLY SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THE DCV DEVICE SHALL HAVE CURRENT APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCHR). ASSEMBLY TO BE INDIVIDUALLY FACTORY TESTED, SHIPPED AND INSTALLED AS A UNIT.

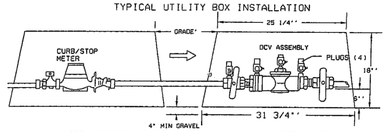
INSTALLATION INSTRUCTIONS: THE DCV BFP ASSEMBLY SHALL NOT BE BURIED IN EARTH BUT INSTALLED IN A UTILITY BOX ADJACENT TO OR AS CLOSE AS PRACTICAL TO THE OUTLET SIDE OF THE METER INSTALLATION. THIS ASSEMBLY MUST BE CENTERED IN THE ENCLOSURE. UNDER NO CIRCUMSTANCES WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BFP USED FOR SYSTEM CONTAINMENT UNLESS THIS CONNECTION IS PROTECTED BY AN APPROVED BFP. AT THE BOTTOM OF THESE INSTRUCTIONS YOU WILL FIND AN EXCERPT FROM THE GEORGIA STATE PLUMBING CODE ON THERMAL EXPANSION.

APPROVED UTILITY BOXES: (OR EQUIVALENT):
CARSON INDUSTRIES MODEL NO. 1324CP2PGWL
CDR SYSTEMS CORP MODEL NO. VA101324-18
BROOKS PRODUCTS, INC MODEL NO. 1324

DEVICE TESTING: ALL DCV ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION AND AT LEAST ANNUALLY THEREAFTER. CONTACT CROSS-CONNECTION CONTROL SPECIALIST, AT 770-414-2354 FOR INSTALLATION INSPECTIONS AND DEVICE TESTS.

APPROVED DEVICES: (OR EQUIVALENT)
COMPACO 48-100 3/4", 1", 1 1/2", 2" (WITH UNIONS)
FEBCO 805Y 3/4" - 1", 1 1/2", 2" (WITH UNIONS)
WATTS U-887-QT 3/4", 1", 1 1/2", 2"
WILKENS 950XLY - 3/4", 1", 1 1/2", 2"

TYPICAL UTILITY BOX INSTALLATION



NOTE: FOR FINAL APPROVAL ASSEMBLY MUST BE CENTERED IN UTILITY BOX.

*** SPECIAL CAUTION ***

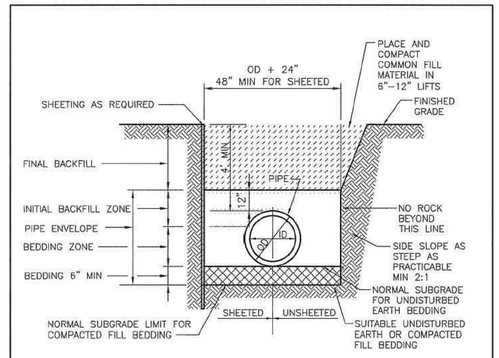
(INTERNATIONAL PLUMBING CODE, 2006, ADOPTED BY GEORGIA STATE PLUMBING CODE (2007 AND 2008 AMENDMENTS)

SECTION 607.3 THERMAL EXPANSION CONTROL
A MEANS OF CONTROLLING INCREASED PRESSURE CAUSED BY THERMAL EXPANSION SHALL BE PROVIDED WHERE REQUIRED IN ACCORDANCE WITH SECTIONS 607.3.1 AND 607.3.2.

607.3.1 PRESSURE-REDUCING VALVE.
FOR WATER SERVICE SYSTEM SIZES UP TO AND INCLUDING 2 INCHES (51 MM), A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED WHERE, BECAUSE OF THERMAL EXPANSION, THE PRESSURE ON THE DOWNSTREAM SIDE OF A PRESSURE-REDUCING VALVE EXCEEDS THE PRESSURE-REDUCING VALVE SETTING.

607.3.2 BACKFLOW PREVENTION DEVICE OR CHECK VALVE.
WHERE A BACKFLOW PREVENTION DEVICE, CHECK VALVE OR OTHER DEVICE IS INSTALLED ON A WATER SUPPLY SYSTEM UTILIZING STORAGE WATER HEATING EQUIPMENT SUCH THAT THERMAL EXPANSION CAUSES AN INCREASE IN PRESSURE, A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED.

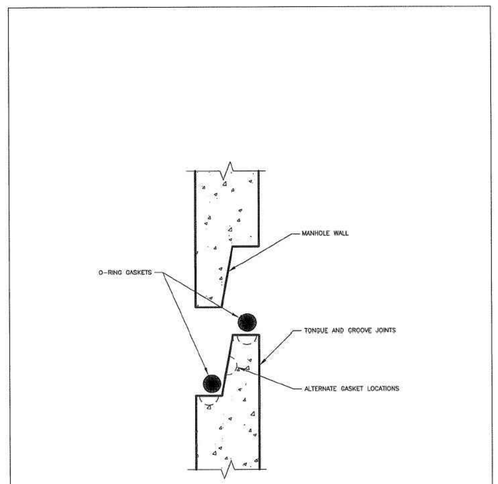
DEKALB COUNTY, GA. DEPARTMENT OF WATERSHED MANAGEMENT	STANDARD DETAILS DCV BFP Installation 3/4 inch to 2 inch NOT TO SCALE	04/09 DETAIL NO. W-016



NOTES:

1. SEE DESIGN STANDARDS FOR ADDITIONAL BEDDING AND TRENCH BACKFILL REQUIREMENTS.
2. DEPTH OF COVER OVER WATER MAINS SHALL BE 4'-0" AS MEASURED FROM TOP OF PAVEMENT TO TOP OF PIPE.
3. MINIMUM 6" COMPACTED SOIL BETWEEN BOTTOM OF PIPE AND ROCK.
4. NO ROCK IN BACKFILL FOR FIRST 2'-0" ABOVE TOP OF PIPE.
5. BEDDING AND BACKFILL TO BE NO. 57 STONE UNDER ROADWAYS AND PAVED AREAS.
6. BEDDING TO BE GDOT TYPE II FOUNDATION BACKFILL.
7. BACKFILL TO BE FREE OF ORGANICS, OBJECTIONABLE MATERIAL AND STONES LARGER THAN 6" IN ITS LONGEST DIMENSION.

DEKALB COUNTY, GA Department of Watershed Management	STANDARD DETAILS Backfill and Allowable Trench Widths Detail NOT TO SCALE	11/07 DETAIL NO. W-019



NOTE:
AFTER INSTALLATION JOINTS SHALL BE GROUTED SMOOTH WITH CEMENT GROUT ON INSIDE AND OUT.

DEKALB COUNTY, GA Department of Watershed Management	STANDARD DETAILS Manhole Joint Detail NOT TO SCALE	12/07 DETAIL NO. S-003

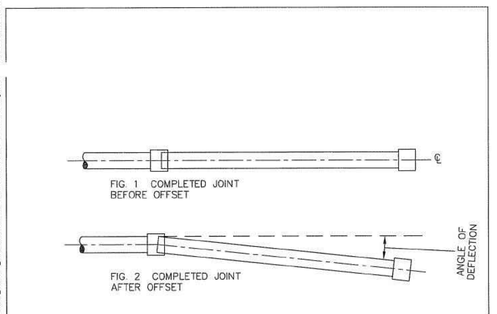


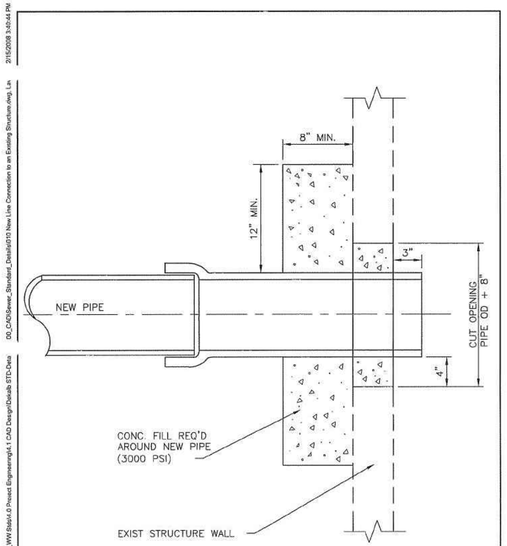
FIG. 1 COMPLETED JOINT BEFORE OFFSET

FIG. 2 COMPLETED JOINT AFTER OFFSET

TYPE JOINT	PIPE SIZE	PIPE LENGTH	MAXIMUM ANGLE OF DEFLECTION	MAXIMUM OFFSET	RADIUS OF CURVATURE
SLIP	6" – 8"	18'	5°	19"	205'
MJ	6" – 8"	18'	5°	19"	205'
SLIP	16"	12'	4°	10"	175'
SLIP	16"	18'	4°	15"	260'

NOTE:
ALL JOINTS MUST BE ASSEMBLED AS SHOWN IN FIG. 1 BEFORE MAKING DEFLECTION.

DEKALB COUNTY, GA Department of Watershed Management	STANDARD DETAILS Maximum Allowable Offsets and Deflections NOT TO SCALE	11/07 DETAIL NO. W-005



DEKALB COUNTY, GA Department of Watershed Management	STANDARD DETAILS New Line Connection to an Existing Structure NOT TO SCALE	12/07 DETAIL NO. S-010

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	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
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(678) 382-6800

CONSTRUCTION DETAILS

BID SET - ADDENDUM 1

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SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
C8-04

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L1-00_TREE PROTECTION PLAN.dwg L1-00 Jan 16, 2013 4:21pm by: aaron.legg
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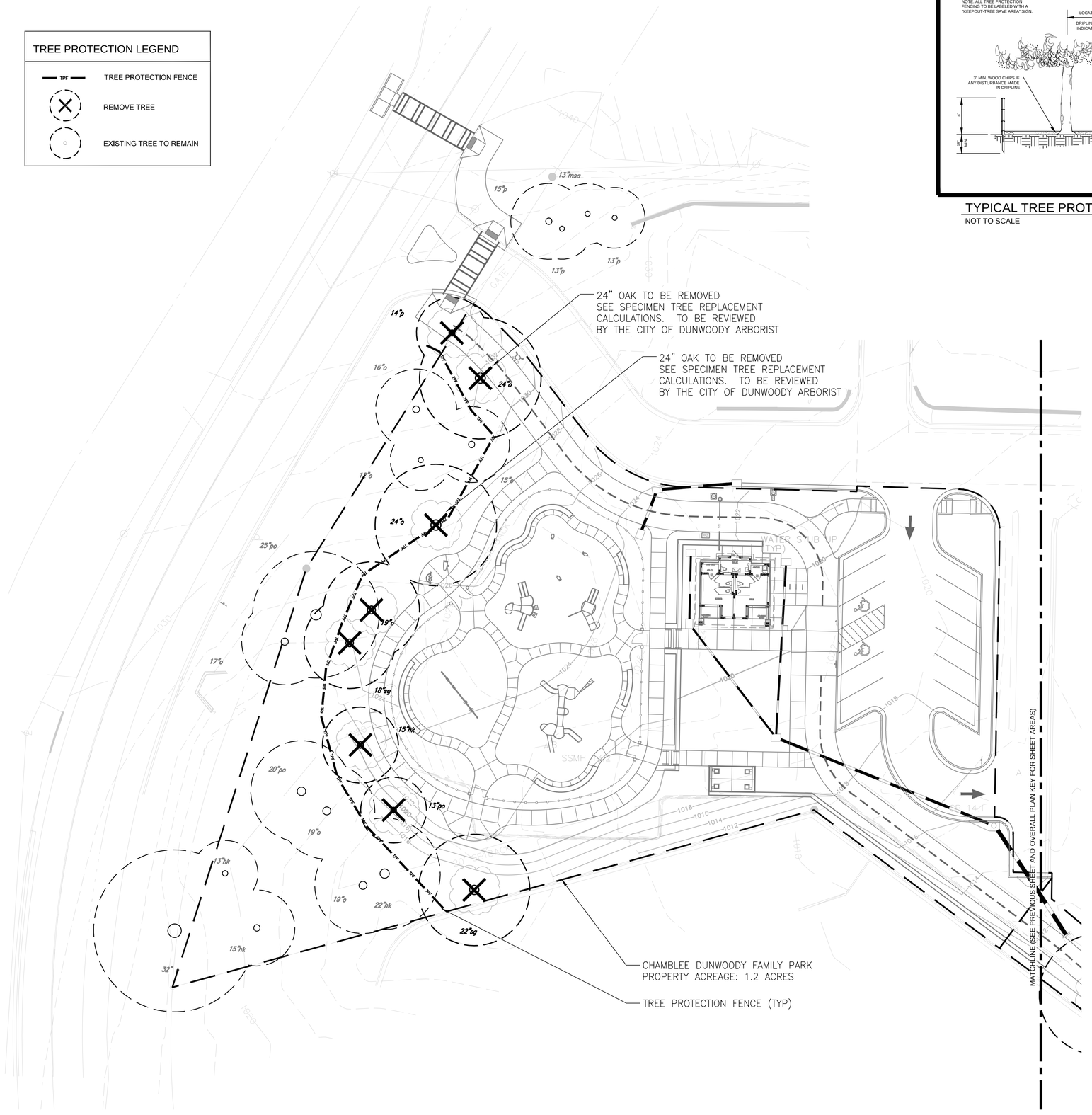
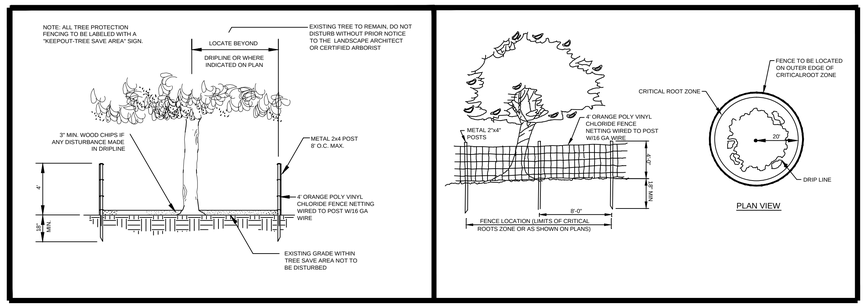
TREE PROTECTION LEGEND

- TPF — TREE PROTECTION FENCE
- REMOVE TREE
- EXISTING TREE TO REMAIN





TYPICAL TREE PROTECTION FENCE

NOT TO SCALE

Existing Trees To Remain

Size (Inches)	Type	Quantity	Total Inches	Density Units
13	Hickory	1	13	0.9
15	Hickory	1	15	1.2
22	Hickory	1	22	2.6
12	Oak	1	12	0.8
15	Oak	1	15	1.2
16	Oak	1	16	1.4
17	Oak	1	17	1.6
19	Oak	2	38	4
32	Oak	1	32	5.6
20	Poplar	1	20	2.2
25	Poplar	1	25	3.4
Total to Remain		**12**	**225**	**24.9**

Existing Trees To Be Removed

Size (Inches)	Type	Quantity	Total Inches
15	Hickory	1	15
13	Maple	1	13
19	Oak	1	19
13	Pine	2	26
14	Pine	3	42
17	Pine	2	34
18	Pine	1	18
13	Poplar	1	13
12	Sweet Gum	3	36
13	Sweet Gum	1	13
14	Sweet Gum	1	14
18	Sweet Gum	1	18
22	Sweet Gum	1	22
Total to be Removed		**19**	**283**

Existing Specimen Trees To be Removed

24	Beech	1	24
24	Oak	2	48
29	Beech	1	29
Total to be Removed		**4**	**101**

REQUIRED TREE REPLACEMENT DENSITY FACTOR:

TOTAL SITE ACREAGE = 3.4 ACRES

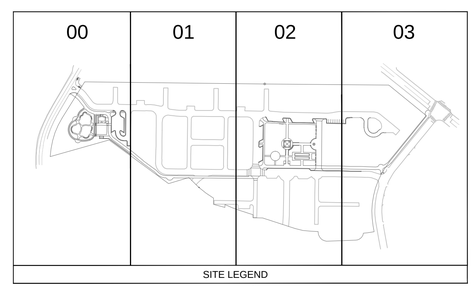
TREE DENSITY FACTOR (TDF):
3.4 AC X 20
TDF = 68

REMAINING TREE FACTOR (RTF):
RTF = 24.9 (SEE SPREADSHEET FOR EXISTING TREES TO REMAIN)

REQUIRED REPLACEMENT DENSITY (RRD):
68–24.9
RRD = 43.1

SPECIMEN TREES TO BE REMOVED:
1–24" BEECH = 3.1 X 1.5 = 4.65
2–24" OAK = 6.2 X 1.5 = 9.3
1–29" BEECH = 4.6 X 1.5 = 6.9
TOTAL DENSITY UNITS REQUIRED = 20.85

TOTAL RRD:
43.1 + 20.85 = 63.95
RRD PROVIDED = 64.7 REQUIREMENT IS SATISFIED



NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

TREE PROTECTION PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET -
ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
L1-00

MATCHLINE (SEE FOLLOWING SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)
29" BEECH TO BE REMOVED
SEE SPECIMEN TREE REPLACEMENT
CALCULATIONS. TO BE REVIEWED
BY THE CITY OF DUNWOODY ARBORIST
24" BEECH TO BE REMOVED
SEE SPECIMEN TREE REPLACEMENT
CALCULATIONS. TO BE REVIEWED
BY THE CITY OF DUNWOODY ARBORIST
MULTI-PUROPOSE TRAIL (PORTION A)
PROPERTY ACREAGE: 0.3 ACRES
POSSIBLE 20'
SANITARY SEWER
EASEMENT
ROADWAY (COMMON ELEMENT)
75' NORTH GA.
METROPOLITAN
STREAM BUFFER
25' GA STATE
STREAM BUFFER
MATCHLINE (SEE PREVIOUS SHEET AND OVERALL PLAN KEY FOR SHEET AREAS)
13"m
29"b
24"b
17"b
13"b
18"b
1010
1000
1005
1015
1020
1025
1030
1035
1040
1045
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1200
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1210

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L1-00_TREE PROTECTION PLAN.dwg L1-02 Jan 16, 2013 4:21pm by: aaron.legg

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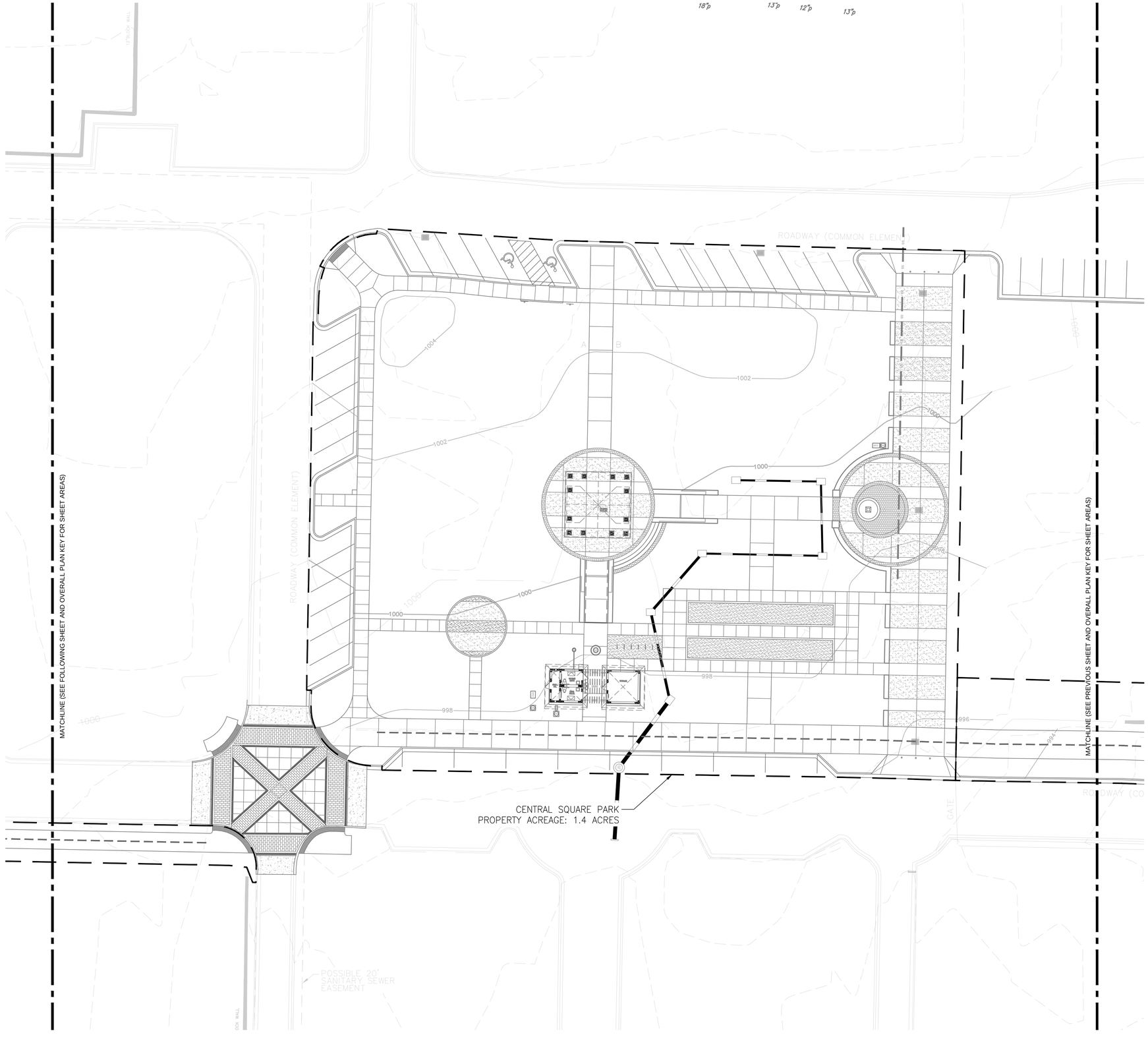
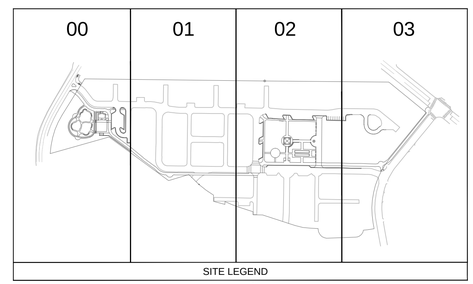


TREE PROTECTION LEGEND

TPF	TREE PROTECTION FENCE
	REMOVE TREE



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L1-00_TREE PROTECTION PLAN.dwg L1-03 Jan 16, 2013 4:22pm by: aaron.legg

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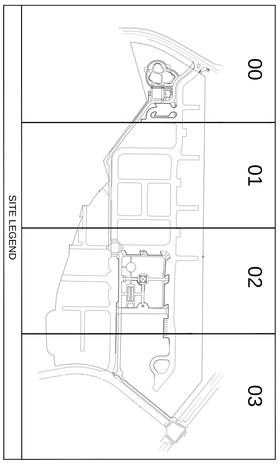

NORTH

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0 10 20 40

TREE PROTECTION LEGEND	
TPF	TREE PROTECTION FENCE
	REMOVE TREE

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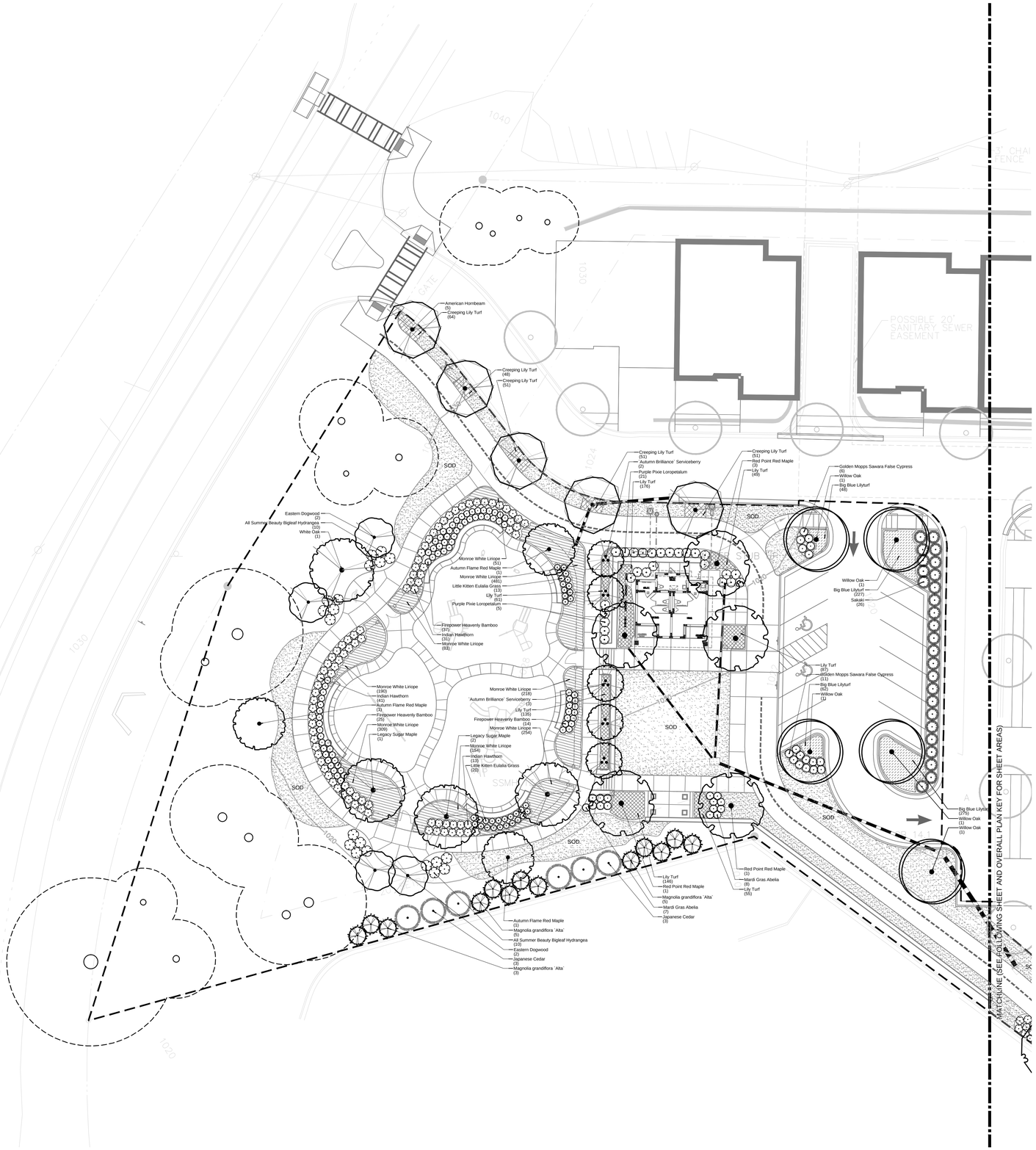


PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	3	Acer rubrum `Autumn Flame`	Autumn Flame Red Maple	B & B	3" Cal	12`-14` ht
	17	Acer rubrum `Frank Jr.`	Red Point Red Maple	B & B	3" Cal	16`- 18` ht
	3	Acer saccharum `Legacy`	Legacy Sugar Maple	B & B	3" Cal	12`-14` ht
	5	Amelanchier x grandiflora `Autumn Brilliance`	`Autumn Brilliance` Serviceberry	B & B	3"Cal	6`-8` ht
	18	Carpinus caroliniana	American Hornbeam	B & B	3" Cal	12`-14` ht
	7	Chionanthus virginicus	White Fringetree	B & B	3" Cal	12`-20` ht.
	4	Cornus florida	Eastern Dogwood	B & B	3"Cal	6`-8` ht
	6	Cryptomeria japonica	Japanese Cedar	B & B	3" Cal	6`-8` ht
	3	Nyssa sylvatica `Green Gable` TM	Black Gum	B & B	4" Cal	30`-50` ht.
	1	Quercus alba	White Oak	B & B	3" Cal	12`-14` ht
	6	Quercus bicolor	Swamp White Oak	B & B	4" Cal	30`-50` ht.
	5	Quercus phellos	Willow Oak	B & B	3" Cal	12`-14` ht
	23	Quercus phellos 'Hightower'	Hightower Willow Oak	B & B	3" Cal	45`-50` ht.

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
	15	Abelia x `Mardi Gras`	Mardi Gras Abelia	2 gal	2`-4` ht.
	82	Chamaecyparis pisifera `Golden Mopps`	Golden Mopps Sawara False Cypress	3 gal	2`-4` ht.
	33	Cleyera japonica	Sakaki	5 gal	8`-10` ht.
	269	Gardenia jasminoides 'Radicans'	Miniature Gardenia	2 gal	6``-12`` ht.
	54	Hydrangea macrophylla `All Summer Beauty`	All Summer Beauty Bigleaf Hydrangea	5 gal	2`-4` ht.
	26	Loropetalum chinense 'Shang-lo Purple Pixie'	Purple Pixie Loropetalum	3 gal	2`-4` ht.
	33	Miscanthus sinensis `Little Kitten`	Little Kitten Eulalia Grass	1 gal	3` ht
	251	Nandina domestica 'Firepower'	Firepower Heavenly Bamboo	1 gal	2`-4` ht.
	54	Prunus laurocerasus 'Otto Luyken'	Luykens Laurel	3 gal	3`-4` ht.
	240	Rhaphiolepis indica	Indian Hawthorn	2 gal	4`-6` ht.

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
	38,770 sf	Cynodon dactylon `Tifton 10`	Bermuda Grass	sod	
	1,572	Liriope muscari `Big Blue`	Big Blue Lilyturf	1 gal@ 12`` oc	4`` - 6``
	2,944	Liriope muscari `Monroe White`	Monroe White Liriope	1 gal@ 12`` oc	4`` - 6``
	1,430	Liriope muscari `Silver Dragon`	Lily Turf	1 gal@ 12`` oc	4`` - 6``
	265	Liriope spicata	Creeping Lily Turf	1 gal@ 12`` oc	1``-3`` diameter
	1,703	Rosa x `Flower Carpet Coral`	Rose	1 gal@ 12`` oc	30`` ht.

TREE PROTECTION AND LANDSCAPE NOTES

1. PROVISIONS FOR TREE PROTECTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE OF THE CITY OF DUNWOODY TREE PRESERVATION ORDINANCE, ZONING ORDINANCE AND ADMINISTRATIVE GUIDELINES PERTAINING TO TREE PROTECTION.

2. IF THE LANDSCAPE DESIGN AND PLANT MATERIAL ARE CHANGED FROM THE PERMITTED PLAN, THREE (3) SETS OF REVISED PLANS SHALL BE SUBMITTED TO THE CITY OF DUNWOODY ARBORIST OFFICE FOR APPROVAL, PRIOR TO ANY LANDSCAPE INSTALLATION.

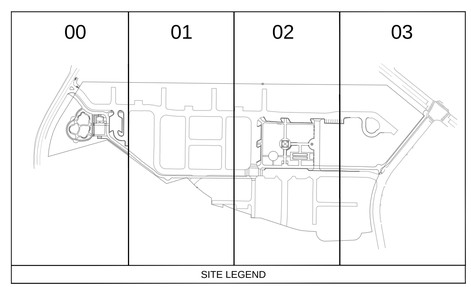
3. ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY OF DUNWOODY AT 678.382.6800 FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.

ARBORIST NOTES:

1. CONTACT THE CITY OF DUNWOOY PLANNER/ARBORIST AT 678.382.6810 TO DETERMINE IF A PRE-CONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE IS REQUIRED. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS MEETING.

2. UNDISTURBED BUFFERS SHALL BE PLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED DUE TO APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO CITY PLANNER/ARBORIST APPROVAL (DO NOT PLANT TREES WITHIN THE SANITARY SEWER EASEMENT)

3. CALL BEFORE YOU DIG (800) 282.7411



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

TREE REPLACEMENT PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
L2-00

Drawing name: K:\ATL_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L2-00_TREE REPLACEMENT PLAN.dwg L2-00 Jan 16, 2013 4:22pm by: apron.legg
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Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L2-00_TREE REPLACEMENT PLAN.dwg L2-01 Jan 16, 2013 4:22pm by: aaron.legg

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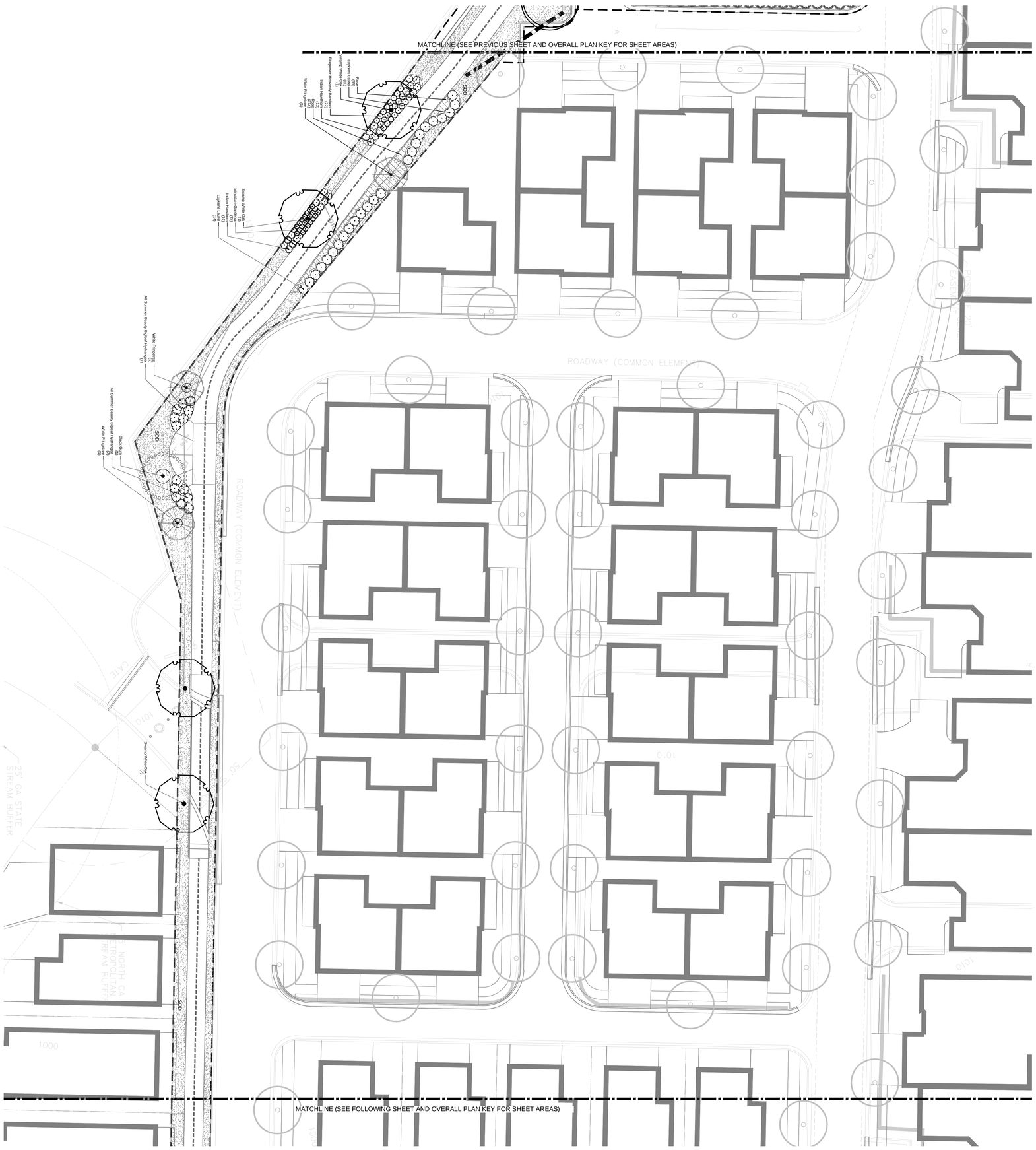
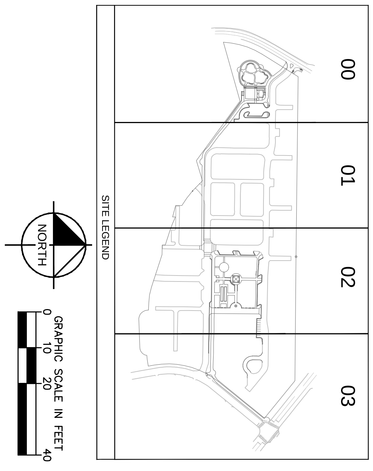


PLANT SCHEDULE

TREES	QTY.	BOTANICAL NAME	COMMON NAME	CONT.	CAL.	SIZE
	3	Acer rubrum 'Autumn Flame'	Autumn Flame Red Maple	B & B	3" CAL	12'-14" Ht.
	17	Acer rubrum 'Franksred'	Red Point Red Maple	B & B	3" CAL	14' - 16" Ht.
	3	Acer saccharum 'Legacy'	Legacy Sugar Maple	B & B	3" CAL	12'-14" Ht.
	5	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	B & B	3" CAL	8'-9" Ht.
	18	Cephalotaxus harringtonia	Anamiya Harringtonia	B & B	3" CAL	12'-14" Ht.
	7	Chionanthus virginicus	White Fringetree	B & B	3" CAL	12'-20" Ht.
	4	Cornus florida	Eastern Dogwood	B & B	3" CAL	8'-9" Ht.
	6	Cryptomeria japonica	Japanese Cedar	B & B	3" CAL	8'-9" Ht.
	3	Nyssa sylvatica 'Open Outlet' TM	Black Gum	B & B	4" CAL	12'-14" Ht.
	1	Quercus alba	White Oak	B & B	4" CAL	30"-35" Ht.
	6	Quercus bicolor	Swamp White Oak	B & B	3" CAL	30"-35" Ht.
	5	Quercus phellos	Willow Oak	B & B	3" CAL	12'-14" Ht.
	23	Quercus phellos 'Highrise'	Highrise Willow Oak	B & B	3" CAL	12'-14" Ht.
SHRUBS	QTY.	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	
	23	Abelia x 'Edward Goucher'	Abelia 'Edward Goucher'	7 gal	2'-3" Ht.	
	82	Chamaecyparis pisifera 'Golden Mops'	Golden Mops Sawara False Cypress	7 gal	2'-3" Ht.	
	33	Cleyera japonica	Sakaki	5 gal	6'-10" Ht.	
	269	Gardenia jasminoides 'Radicans'	Miniature Gardenia	3 gal	8"-12" Ht.	
	54	Hydrangea macrophylla 'All Summer Beauty'	All Summer Beauty Bigleaf Hydrangea	5 gal	2'-3" Ht.	
	26	Loropetalum chinense 'Shang-a-Prurple Prize'	Purple Pixie Loropetalum	3 gal	2'-3" Ht.	
	33	Miscanthus sinensis 'Little Kitten'	Little Kitten Maiden Grass	1 gal	3' Ht.	
	251	Nandina domestica 'Firepower'	Firepower Heavenly Bamboo	1 gal	2'-3" Ht.	
	54	Prunus laurocerasus 'Otto Luyken'	Otto Luyken Laurel	3 gal	3'-4" Ht.	
	240	Rhaphiolepis indica	Indian Hawthorn	7 gal	4'-6" Ht.	
GROUNDCOVERS	QTY.	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	
	36,773 sf	Cynodon dactylon 'Tifton 10'	Bermuda Grass	sod		
	1,577	Liriope muscari 'Big Blue'	Big Blue Lilyturf	1 gal	12" o.c.	4"-6"
	2,044	Liriope muscari 'Monroe White'	Monroe White Lilyturf	1 gal	12" o.c.	4"-6"
	1,420	Liriope muscari 'Samt Dragon'	Lily Turf	1 gal	12" o.c.	4"-6"
	265	Liriope spicata	Creeping Lily Turf	1 gal	12" o.c.	4" - 6" diameter
	1,783	Rosa x 'Flower Carpet Coral'	Rose	1 gal	12" o.c.	30" Ht.



BID SET - ADDENDUM 1

SCALE (H): 1"=20'
SCALE (V): NONE
DESIGNED BY: BS
DRAWN BY: JHP
CHECKED BY: JED
DATE: 11/21/12
KHA PROJECT NO.: 019124002
SHEET NUMBER L2-01

DUNWOODY
COMMUNITY DEVELOPMENT

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

TREE REPLACEMENT PLAN

No.	REVISIONS	DATE	BY
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	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

Kimley-Horn and Associates, Inc.

817 WEST PEACHTREE ST, NW
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ATLANTA, GEORGIA 30308-1121

Tel: (404) 419-8700
Fax: (404) 419-8701

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Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L2-00_TREE REPLACEMENT PLAN.dwg L2-02 Jan 16, 2013 4:22pm by: aaron.legg

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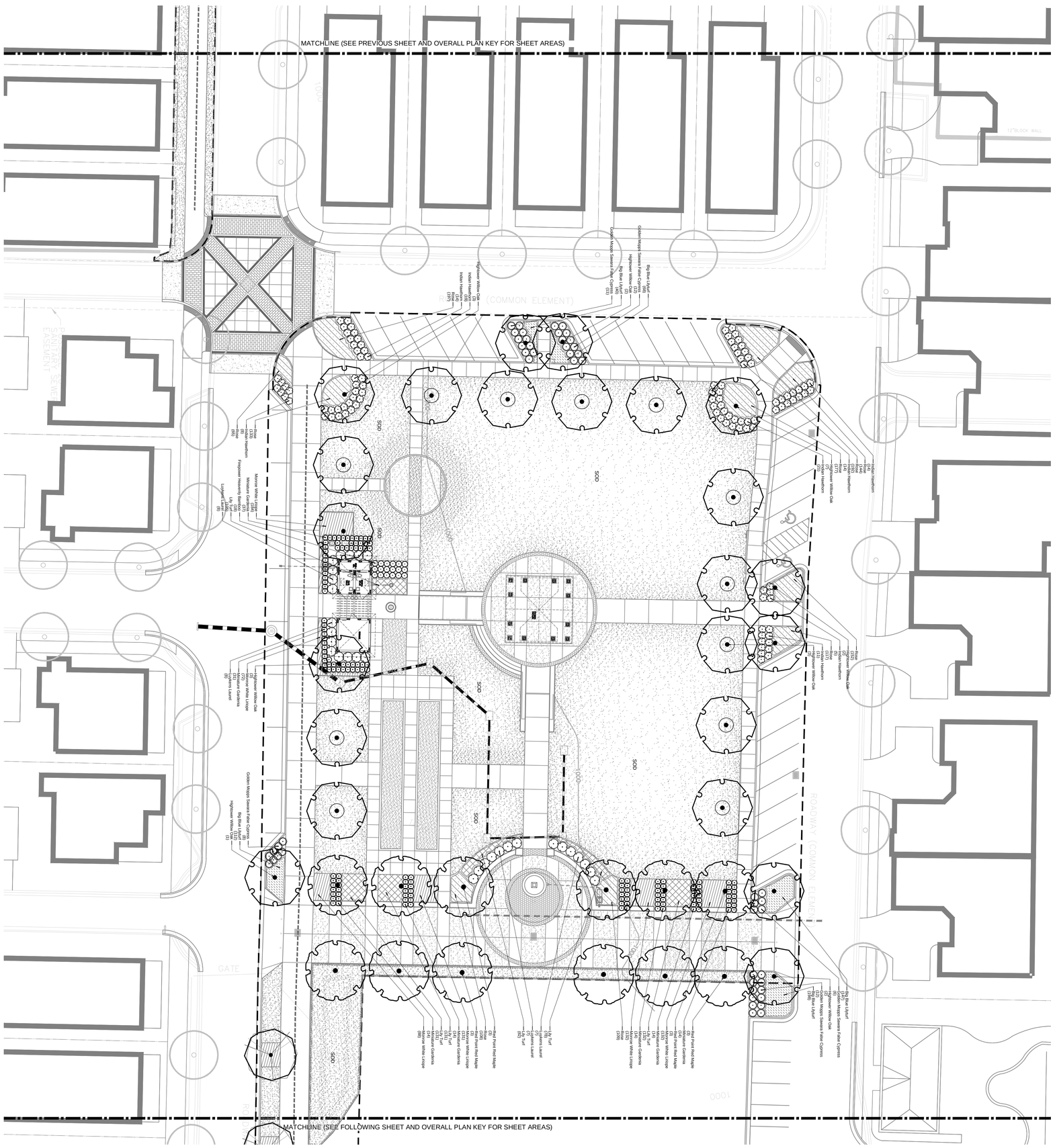
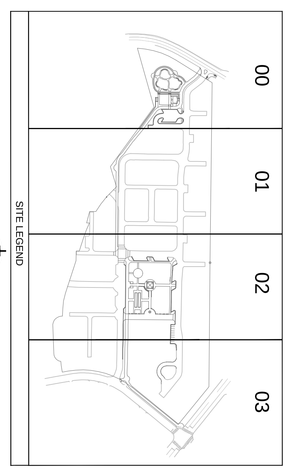


PLANT SCHEDULE

TREES	KEY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	3	Acer rubrum 'Autumn Flame'	Autumn Flame Red Maple	B & B	3" DBH	12' Ht. x 5' W.
	17	Acer rubrum 'Franksred'	Autumn Blaze® Red Maple	B & B	3" DBH	12' Ht. x 5' W.
	3	Acer saccharum 'Legacy'	Legacy Sugar Maple	B & B	3" DBH	12' Ht. x 5' W.
	5	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	B & B	3" DBH	6' W.
	18	Cercis canadensis	Redbud	B & B	3" DBH	6' W.
	7	Chionanthus virginicus	White Fringetree	B & B	3" DBH	12' Ht. x 5' W.
	4	Cornus florida	Eastern Dogwood	B & B	3" DBH	6' W.
	6	Cryptomeria japonica	Japanese Cedar	B & B	3" DBH	6' W.
	1	Quercus alba	White Oak	B & B	4" DBH	25' Ht. x 15' W.
	6	Quercus bicolor	Swamp White Oak	B & B	3" DBH	12' Ht. x 5' W.
	5	Quercus phellos 'Highrise'	Highrise Willow Oak	B & B	3" DBH	12' Ht. x 5' W.
	3	Taxodium distichum 'Green Cable' TM	Black Gum	B & B	4" DBH	25' Ht. x 15' W.
	1	Quercus alba	White Oak	B & B	4" DBH	25' Ht. x 15' W.
	3	Nyssa sylvatica 'Green Cable' TM	Black Gum	B & B	4" DBH	25' Ht. x 15' W.
	6	Quercus bicolor	Swamp White Oak	B & B	3" DBH	12' Ht. x 5' W.
	5	Quercus phellos	Willow Oak	B & B	3" DBH	12' Ht. x 5' W.
	23	Quercus phellos 'Highrise'	Highrise Willow Oak	B & B	3" DBH	40' Ht. x 15' W.
	15	Zelkova x 'Musashino'	Musashino Zelkova	3 gal	2" Ht.	
	82	Chamaecyparis pisifera 'Golden Mops'	Golden Mops Sawara False Cypress	3 gal	2" Ht.	
	33	Chionanthus virginicus	Fringetree	5 gal	6' Ht.	
	266	Gardenia jasminoides 'Radicans'	Miniature Gardenia	3 gal	2' Ht.	
	54	Hydrangea macrophylla 'All Summer Beauty'	All Summer Beauty Bigleaf Hydrangea	3 gal	2' Ht.	
	26	Loropetalum chinense 'Shang-a-Purple Pow'	Purple Pows Loropetalum	3 gal	2' Ht.	
	33	Miscanthus sinensis 'Little Kitten'	Little Kitten Eulalia Grass	3 gal	3' Ht.	
	251	Nandina domestica 'Firepower'	Firepower Heavenly Bamboo	1 gal	2' Ht.	
	94	Prunus laurocerasus 'Otto Luyken'	Ulyukens Laurel	3 gal	3' Ht.	
	240	Rhaphiolepis indica	Indian Hawthorn	3 gal	4' Ht.	
GROUNDCOVERS	KEY	BOTANICAL NAME	COMMON NAME	SIZE		
	36,770 sf	Cynodon dactylon 'Tifton 10'	Bermuda Grass	sod		
	1,577	Liriope muscari 'Big Blue'	Big Blue Lilyturf	1 gal @ 12" oc		
	2,944	Liriope muscari 'Monroe White'	Monroe White Lilyturf	1 gal @ 12" oc		
	1,430	Liriope muscari 'Silver Dragon'	Lily Turf	1 gal @ 12" oc	4" - 6"	
	266	Liriope spicata	Creeping Lily Turf	1 gal @ 12" oc	1' 3" - 6"over	
	1,703	Rosa x 'Flower Carpet Coral'	Rose	1 gal @ 24" oc	30" Ht.	



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SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002
SHEET NUMBER	L2-02

BID SET - ADDENDUM 1

DUNWOODY
COMMUNITY DEVELOPMENT

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

TREE REPLACEMENT PLAN

No.	REVISIONS	DATE	BY
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	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

Kimley-Horn and Associates, Inc.

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ATLANTA, GEORGIA 30308-1121

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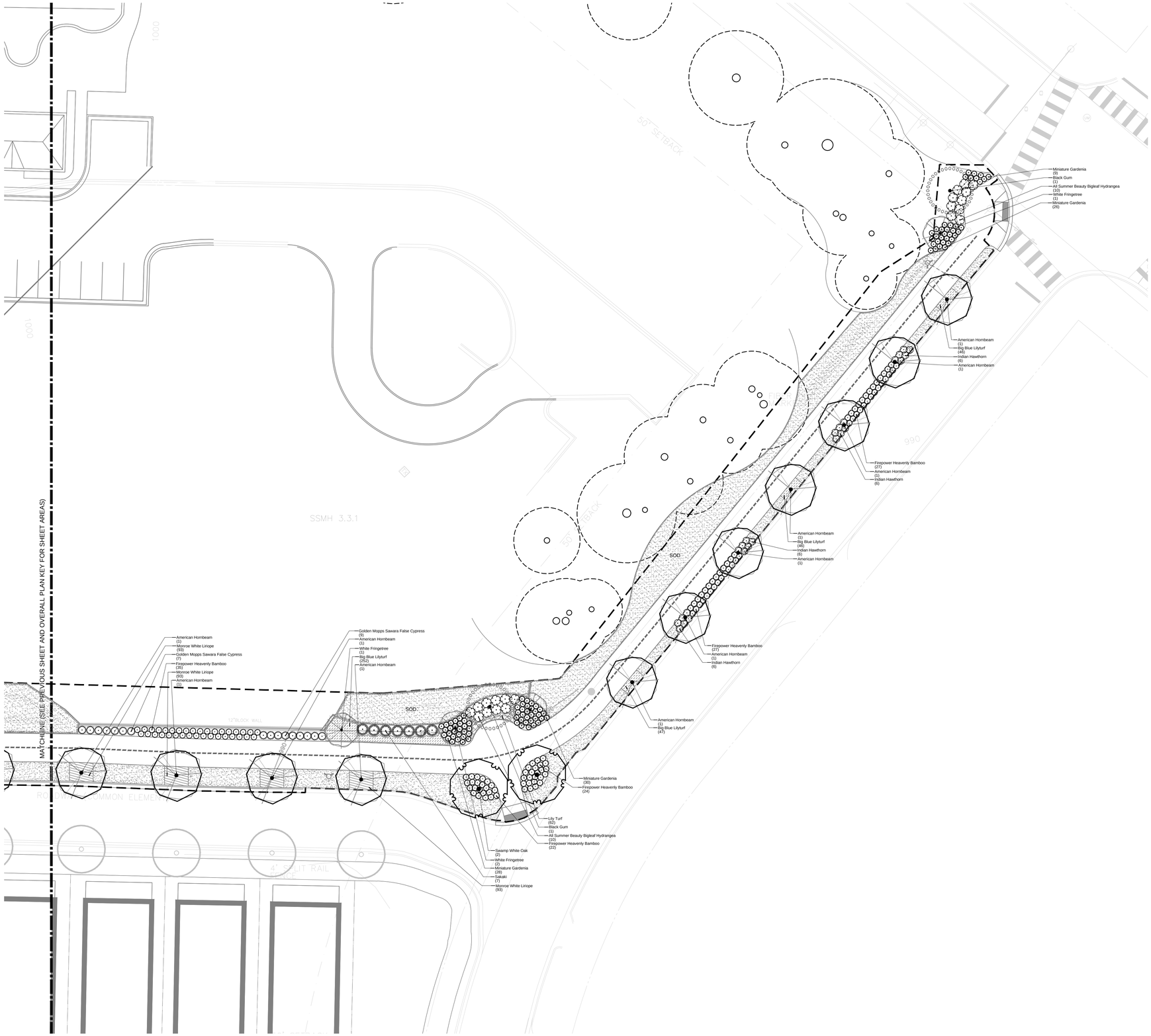
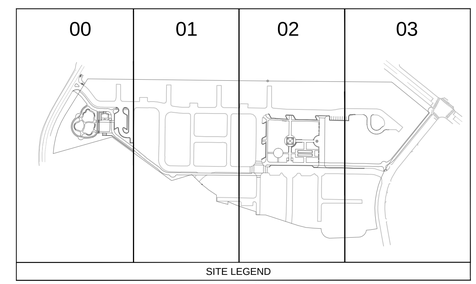


PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	3	Acer rubrum `Autumn Flame`	Autumn Flame Red Maple	B & B	3" Cal	12`-14` ht
	17	Acer rubrum `Frank Jr`	Red Point Red Maple	B & B	3" Cal	16` - 18` ht
	3	Acer saccharum `Legacy`	Legacy Sugar Maple	B & B	3" Cal	12`-14` ht
	5	Amelanchier x grandiflora `Autumn Brilliance`	`Autumn Brilliance` Serviceberry	B & B	3"Cal	6`-8` ht
	18	Carpinus caroliniana	American Hornbeam	B & B	3" Cal	12`-14` ht
	7	Chionanthus virginicus	White Fringetree	B & B	3" Cal	12`-20` ht.
	4	Cornus florida	Eastern Dogwood	B & B	3"Cal	6`-8` ht
	6	Cryptomeria japonica	Japanese Cedar	B & B	3" Cal	6`-8` ht
	3	Nyssa sylvatica `Green Gable` TM	Black Gum	B & B	4" Cal	30`-50` ht.
	1	Quercus alba	White Oak	B & B	3" Cal	12`-14` ht
	6	Quercus bicolor	Swamp White Oak	B & B	4" Cal	30`-50` ht.
	5	Quercus phellos	Willow Oak	B & B	3" Cal	12`-14` ht
	23	Quercus phellos `Hightower`	Hightower Willow Oak	B & B	3" Cal	45`-50` ht.

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
	15	Abelia x `Mardi Gras`	Mardi Gras Abelia	2 gal	2`-4` ht.
	82	Chamaecyparis pisifera `Golden Mopps`	Golden Mopps Sawara False Cypress	3 gal	2`-4` ht.
	33	Cleyera japonica	Sakaki	5 gal	8`-10` ht.
	269	Gardenia jasminoides `Radicans`	Miniature Gardenia	2 gal	6``-12`` ht.
	54	Hydrangea macrophylla `All Summer Beauty`	All Summer Beauty Bigleaf Hydrangea	5 gal	2`-4` ht.
	26	Loropetalum chinense `Shang-lo Purple Pixie`	Purple Pixie Loropetalum	3 gal	2`-4` ht.
	33	Miscanthus sinensis `Little Kitten`	Little Kitten Eulalia Grass	1 gal	3` ht
	251	Nandina domestica `Firepower`	Firepower Heavenly Bamboo	1 gal	2`-4` ht.
	54	Prunus laurocerasus `Otto Luyken`	Luykens Laurel	3 gal	3 - 4` ht.
	240	Rhaphiolepis indica	Indian Hawthorn	2 gal	4`-6` ht.

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
	38,770 sf	Cynodon dactylon `Tifton 10`	Bermuda Grass	sod	
	1,572	Liriope muscari `Big Blue`	Big Blue Lilyturf	1 gal@ 12`` oc	4`- 6``
	2,944	Liriope muscari `Monroe White`	Monroe White Liriope	1 gal@ 12`` oc	4`- 6``
	1,430	Liriope muscari `Silver Dragon`	Lily Turf	1 gal@ 12`` oc	4`- 6``
	265	Liriope spicata	Creeping Lily Turf	1 gal@ 12`` oc	1``-3`` diameter
	1,703	Rosa x `Flower Carpet Coral`	Rose	1 gal@ 12`` oc	30`` ht.



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST, NW
SUITE 601
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	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE
DUNWOODY, GA

TREE REPLACEMENT PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
L2-03

Drawing name: K:\ATL_URO\019124002_Dunwoody Ren Parks\CADD\CONSTR\L2-00_TREE REPLACEMENT PLAN.dwg L1-03 Jan 16, 2013 4:22pm by: aaron.legg
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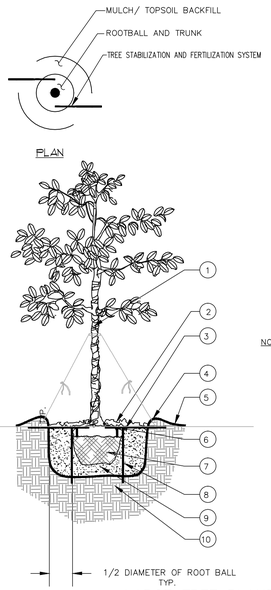
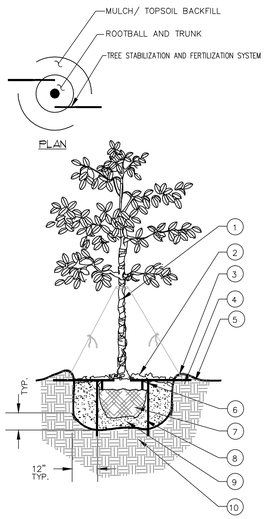


1. TREE WRAP
2. 3" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
3. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE AT $\frac{1}{3}$ TREE HEIGHT WITH FLAGGING.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. FINISHED GRADE (SEE GRADING PLAN)
6. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE
7. B & B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED SUBSOIL

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. BRANCHING HEIGHT TO A.A.N. STANDARDS.
F. REFER TO MANUFACTURES SPECIFICATION FOR INSTALLATION.

LARGE TREE PLANTING
(14' OR GREATER)
N.T.S.

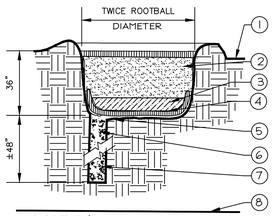


1. TREE WRAP
2. 3" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
3. 3" HIGH SOIL BERM TO HOLD WATER.
4. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE AT $\frac{1}{3}$ TREE HEIGHT WITH FLAGGING.
5. FINISHED GRADE (SEE GRADING PLAN)
6. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE
7. B & B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED SUBSOIL

NOTES:

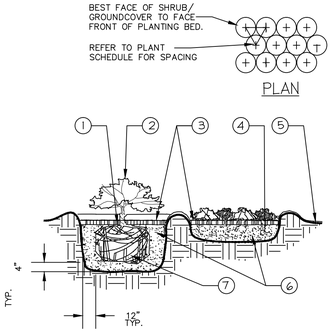
A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. BRANCHING HEIGHT TO A.A.N. STANDARDS.
F. REFER TO MANUFACTURES SPECIFICATION FOR INSTALLATION.

SMALL TREE PLANTING
(14' OR LESS)
N.T.S.



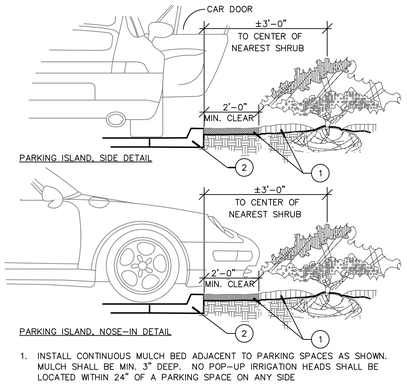
1. FINISH GRADE
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. 12"- CLEAN SAND, COMPACTED. ADJUST LAYER THICKNESS SO TOP OF ROOTBALL IS AT EAST 1" ABOVE FINISHED GRADE.
4. FILTER CLOTH
5. SLOPE BOTTOM TO DRAIN
6. 18"± AUGURED HOLE PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
7. BACKFILL WITH 1/2" – 3/4" GRAVEL.
8. WATER TABLE FOR A PARKING ISLAND PLANTING SITUATION, CONTRACTOR TO BACKFILL ENTIRE LENGTH OF PLANTING AREA TO WITHIN 6" OF BACK OF CURB OR EDGE OF PAVEMENT.

POOR DRAINAGE CONDITION
N.T.S.



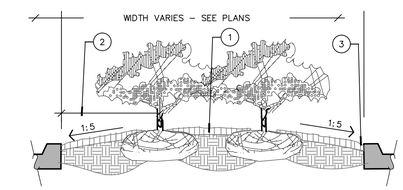
1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" – 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES– PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT
3. 3" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND–COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.

SHRUB/GROUNDCOVER PLANTING
N.T.S.



1. INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWN. MULCH SHALL BE MIN. 3" DEEP. NO POP–UP IRRIGATION HEADS SHALL BE LOCATED WITHIN 24" OF A PARKING SPACE ON ANY SIDE
2. CURB OR PARKING LOT EDGE, BY OTHERS

PARKING SPACE/CURB PLANTING
NTS



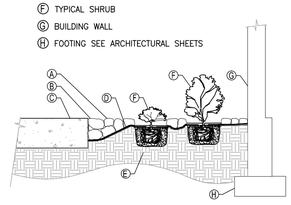
PLANTER ISLAND NOTES

1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS. SEE DETAIL 'i' FOR PLANTER MEDIANS ADJACENT TO PARKING SPACES.
3. 1" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

- EXCAVATE CONTINUOUS 36" DEEP (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
- PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
- ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

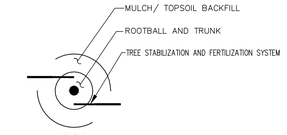
PLANTED PARKING LOT ISLANDS / MEDIANS
N.T.S.

ENSURE THAT ALL RIVER ROCK ADJACENT TO THE SIDEWALKS IS FLUSH AND LEVEL WITH THE ELEVATION OF THE WALK. SLOPED OR ROUNDED BEDS THAT ALLOW THE ROCK TO ROLL ONTO WALKING SURFACES ARE UNACCEPTABLE



(A) ROCK MULCH SHALL BE 4"–6" DIAMETER RIVER ROCK AT THE FRONT OF THE BUILDING AND 2"–3" DIAMETER RIVER ROCK AT THE SIDES AND REAR
(B) ROCK IS FLUSH WITH THE WALK ELEVATION AS SHOWN
(C) SIDEWALK AS PER CIVIL SPECIFICATION
(D) WEED BARRIER
(E) PREPARED SOIL AS PER SPECIFICATION
(F) TYPICAL SHRUB
(G) BUILDING WALL
(H) FOOTING SEE ARCHITECTURAL SHEETS

PLANTINGS ADJACENT TO BUILDINGS
N.T.S.

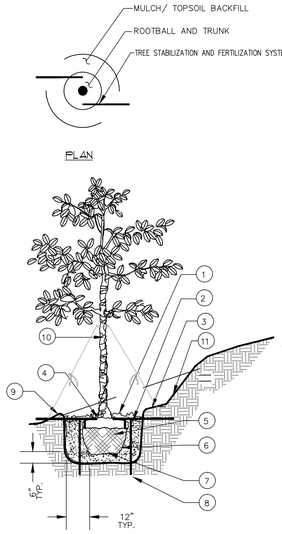


1. BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE (1" MIN.) ADJACENT FINISH GRADE. REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP 1/3 OF ROOTBALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
2. 3" SHREDDED HARDWOOD BARK MULCH OR APPROVED EQUAL
3. DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOTBALL–ROUGHEN SIDES OF TREE PIT.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. TOPSOIL MIX BACKFILL
6. TREE WRAP
7. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN)
8. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
9. UNDISTURBED SUBSOIL
10. PREPARE PLANTING SOIL AS SPECIFIED.
11. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. SET TREE AT PROPER DEPTH. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT
E. BRANCHING HEIGHT TO A.A.N. STANDARDS
F. IF SITE CONDITIONS REQUIRE GUYING OF THE TREE, FASTEN #10 GUY WIRE TO STRONGEST TRUNK AT THE CENTER OF THE MULTI–TRUNK TREE WITH FLAGGING.
G. REFER TO MANUFACTURES SPECIFICATION FOR INSTALLATION.

MULTI–TRUNK TREE PLANTING
N.T.S.



1. 3" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
2. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE AT $\frac{1}{3}$ TREE HEIGHT WITH FLAGGING
3. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
4. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE
5. B&B OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS).
6. PREPARE PLANTING SOIL AS SPECIFIED.
7. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
8. UNDISTURBED SUBSOIL.
9. 3" HIGH SOIL BERM TO HOLD WATER.
10. TREE WRAP
11. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
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TREE PLANTING ON SLOPE
N.T.S.

1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" – 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES– PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT
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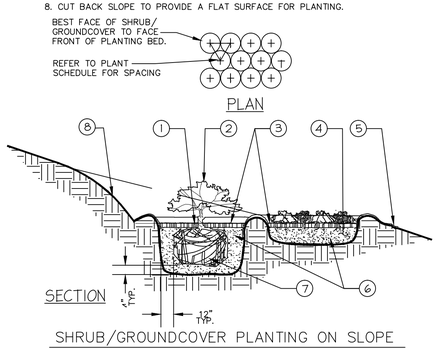
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND–COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.
8. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.



SHRUB/GROUNDCOVER PLANTING ON SLOPE
N.T.S.

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/13	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

LANDSCAPE DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
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ADDENDUM 1

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KHA PROJECT NO.: 019124002

SHEET NUMBER
L2-04

Drawing name: K:\ATL_URD\019124002_Dunwoody Ren Parks\CADD\CONSTR\L2-00_TREE REPLACEMENT PLAN.dwg L2-04 Jan 16, 2013 4:22pm by: aaron.legg
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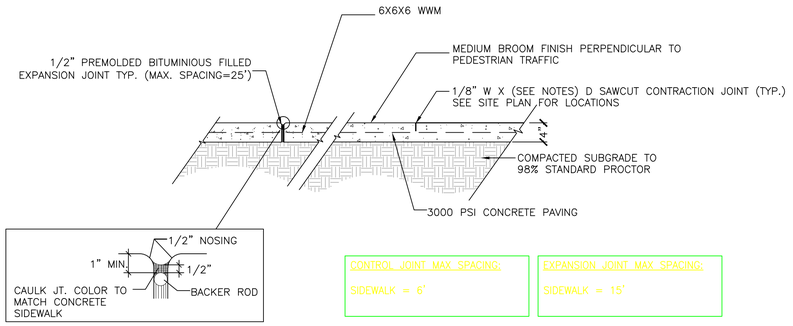
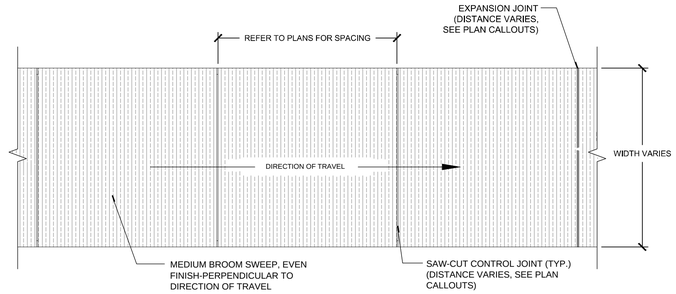
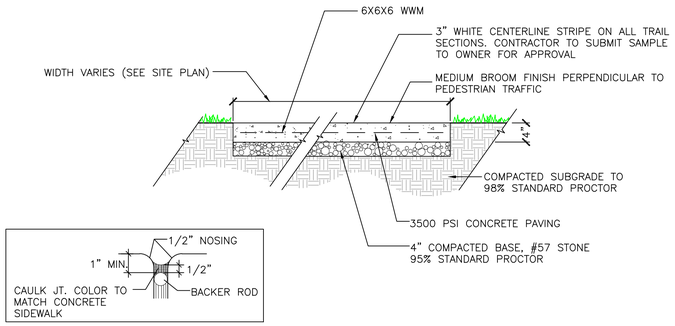


EXPANSION JOINT TYP.
SEE SITE PLAN FOR LOCATION

NOTES:
1. CAULK JOINT WITH LITHOSEAL (COLOR TO MATCH CONCRETE COLOR).
2. DEPTH OF THE SAWCUT CONTRACTION JOINT SHALL BE ¼" WHEN OUT WITHIN 6 HOURS OF POUR. IF SAWCUTTING OCCURS AFTER 6 HOURS OF POUR, THE DEPTH THE CONTRCTION JOINT SHALL BE 1/3 THE THICKNESS OF CONCRETE



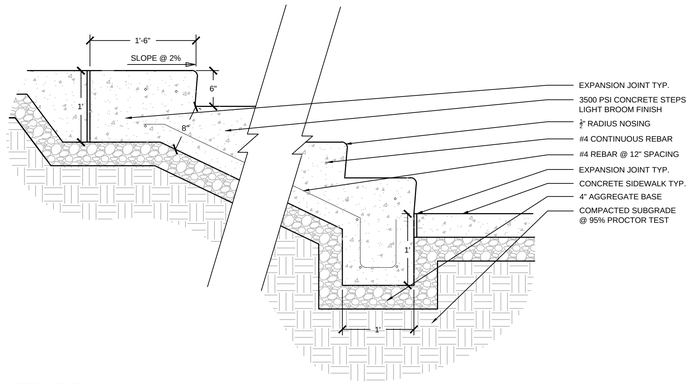
1 CONCRETE SIDEWALK PAVING
SCALE: NTS



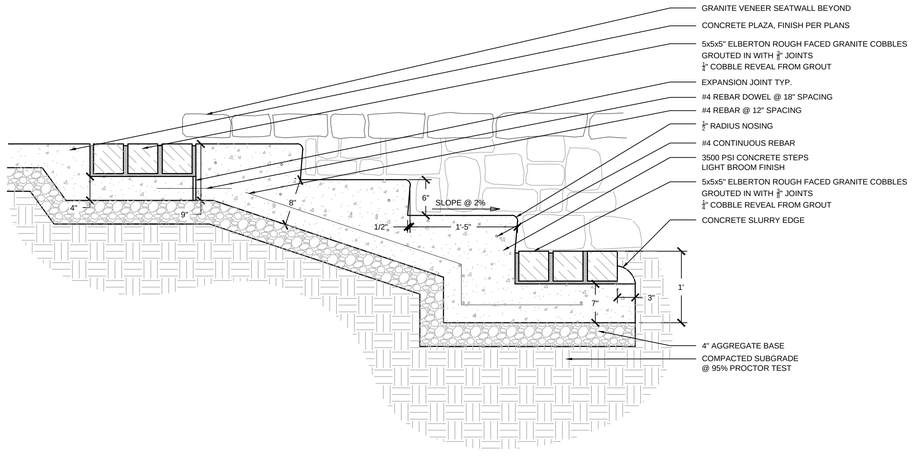
EXPANSION JOINT TYP.
25' MAX SPACING

NOTES:
1. CAULK JOINT WITH LITHOSEAL (COLOR TO MATCH CONCRETE COLOR).
2. DEPTH OF THE SAWCUT CONTRACTION JOINT SHALL BE ¼" WHEN OUT WITHIN 6 HOURS OF POUR. IF SAWCUTTING OCCURS AFTER 6 HOURS OF POUR, THE DEPTH THE CONTRCTION JOINT SHALL BE 1/3 THE THICKNESS OF CONCRETE

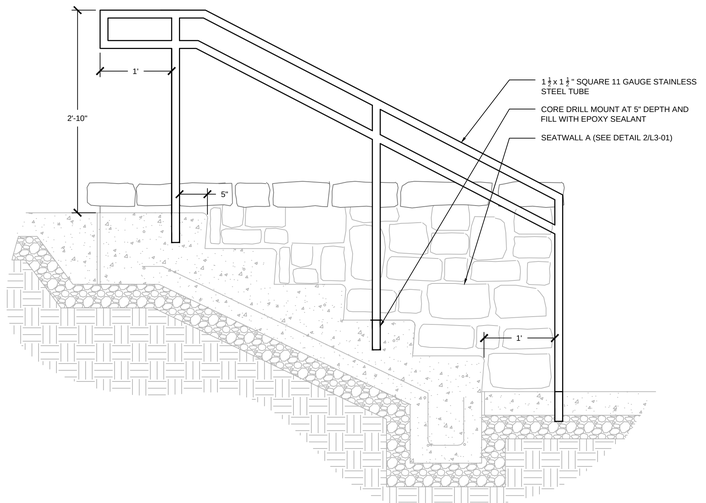
2 MULTI-PURPOSE PATH
SCALE: NTS



3 STAIRS A
SCALE: 1"=1'



4 STAIRS B
SCALE: 1"=1'



5 HANDRAIL A
SCALE: 1"=1'

Drawing name: K:\AMF_URC\019124002_Dunwoody Ren Parks\CADD\CONSTR\L3-00_HARDSCAPE DETAILS.dwg L3-00 Jan 16, 2013 4:23pm by: aaron.leag
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HARDSCAPE DETAILS

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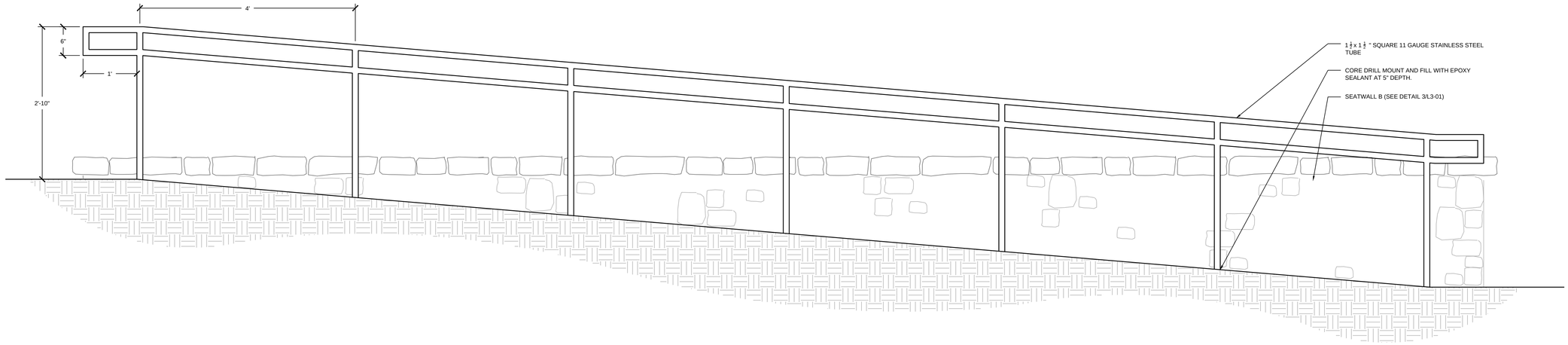

1 HANDRAIL B
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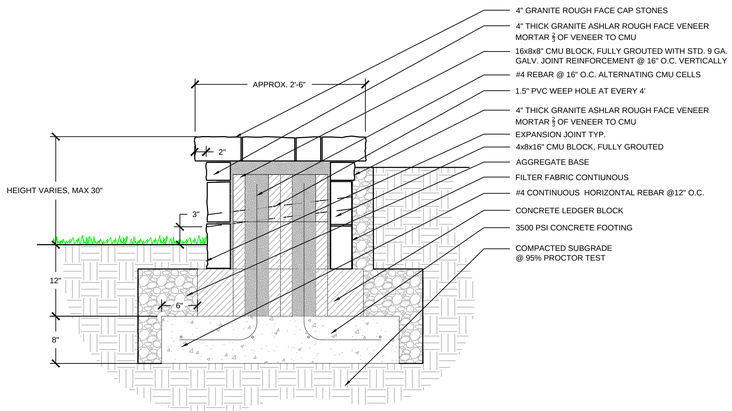
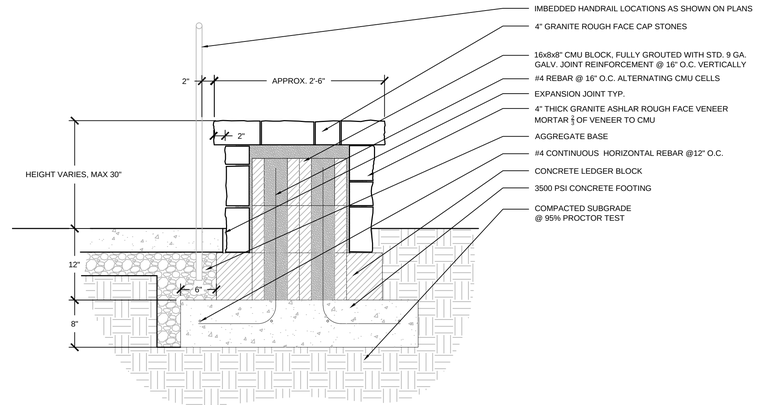
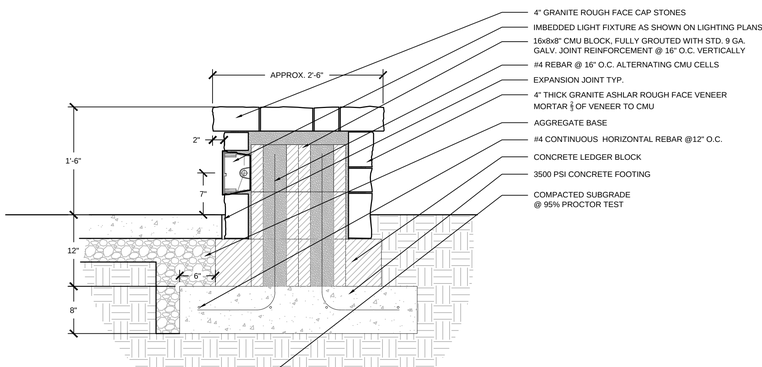


2 SEATWALL A
SCALE: 1"=1'



3 SEATWALL B
SCALE: 1"=1'



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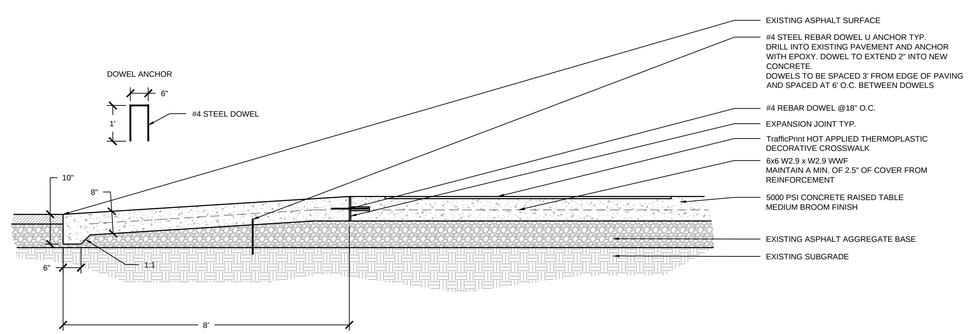

5 RAISED INTERSECTION
SCALE: 1"=1'

Drawing name: K:\AMT_LRG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L3-00_HARDSCAPE DETAILS.dwg L3-01 Jan 16, 2013 4:23pm by: aaron.legg
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HARDSCAPE DETAILS

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ADDENDUM 1

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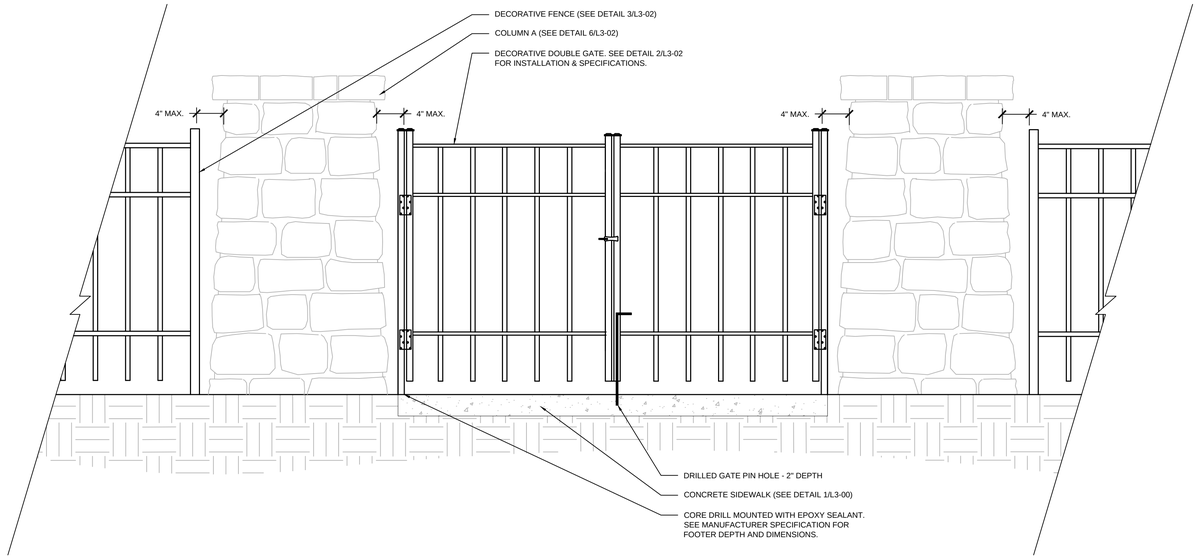
SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12

KHA PROJECT NO.: 019124002

SHEET NUMBER
L3-01



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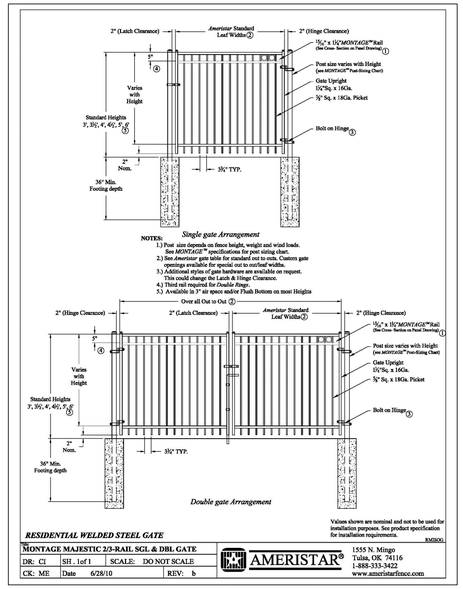
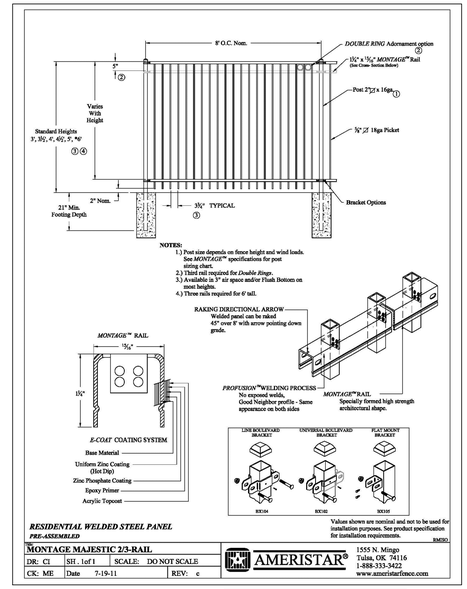


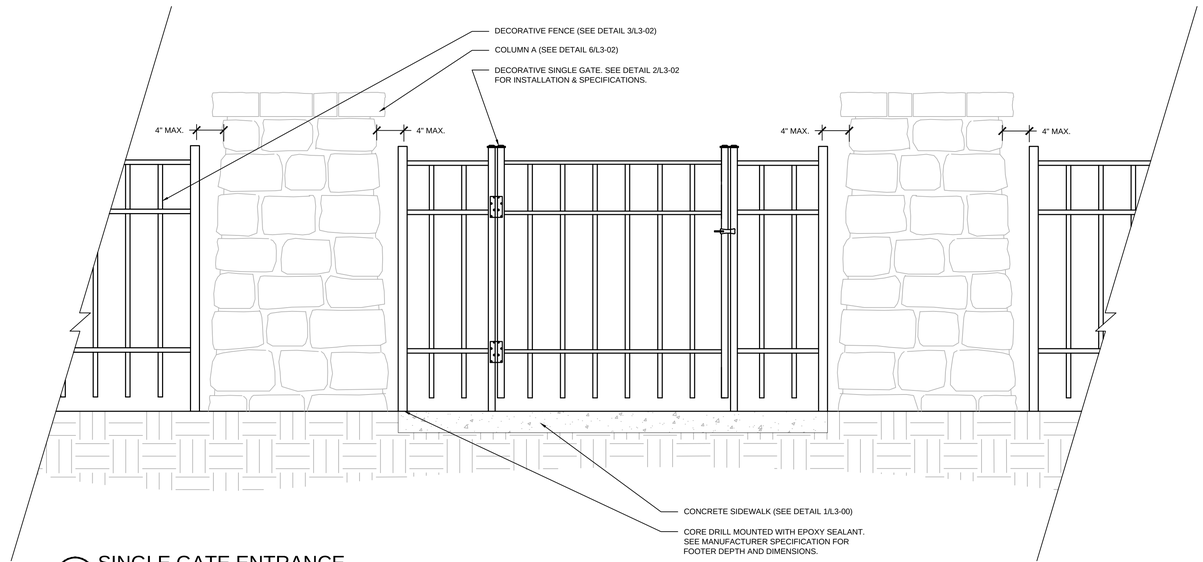
2 DECORATIVE GATE
SCALE: NTS

OR APPROVED EQUAL



3 DECORATIVE FENCE
SCALE: NTS

OR APPROVED EQUAL



4 SINGLE GATE ENTRANCE
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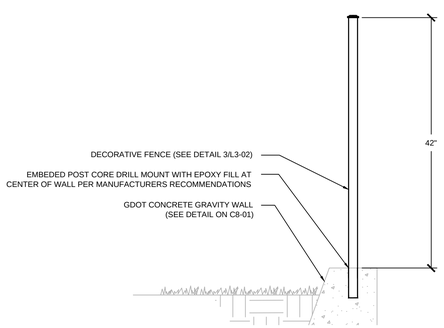

5 FALL PROTECTION
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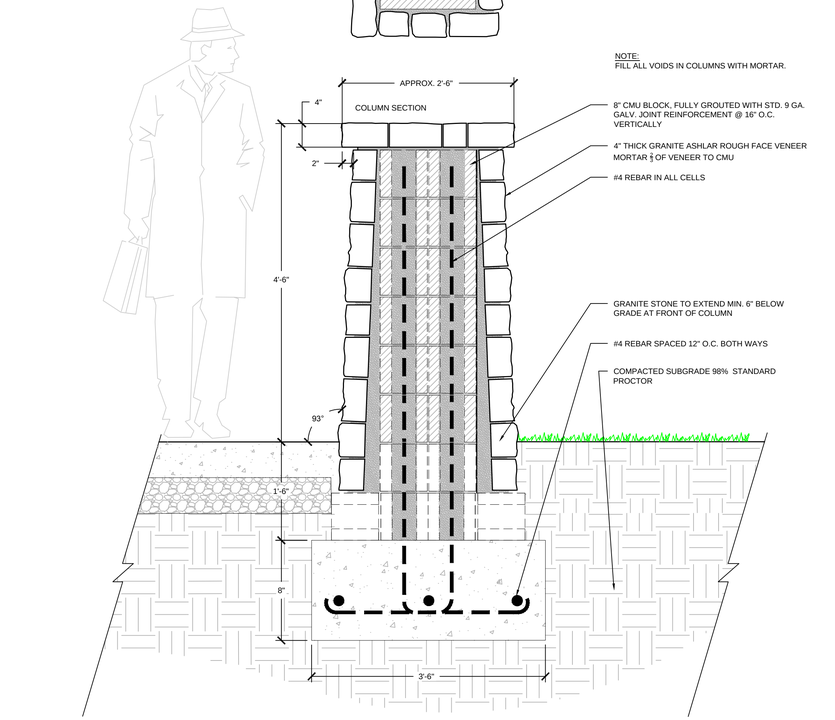

6 COLUMN A
SCALE: 1"=1'

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SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
L3-02

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren. Parks\CADD\CONSTR\L3-00_HARDSCAPE DETAILS.dwg L3--02 Jan 16, 2013 4:23pm by: aaron.legg
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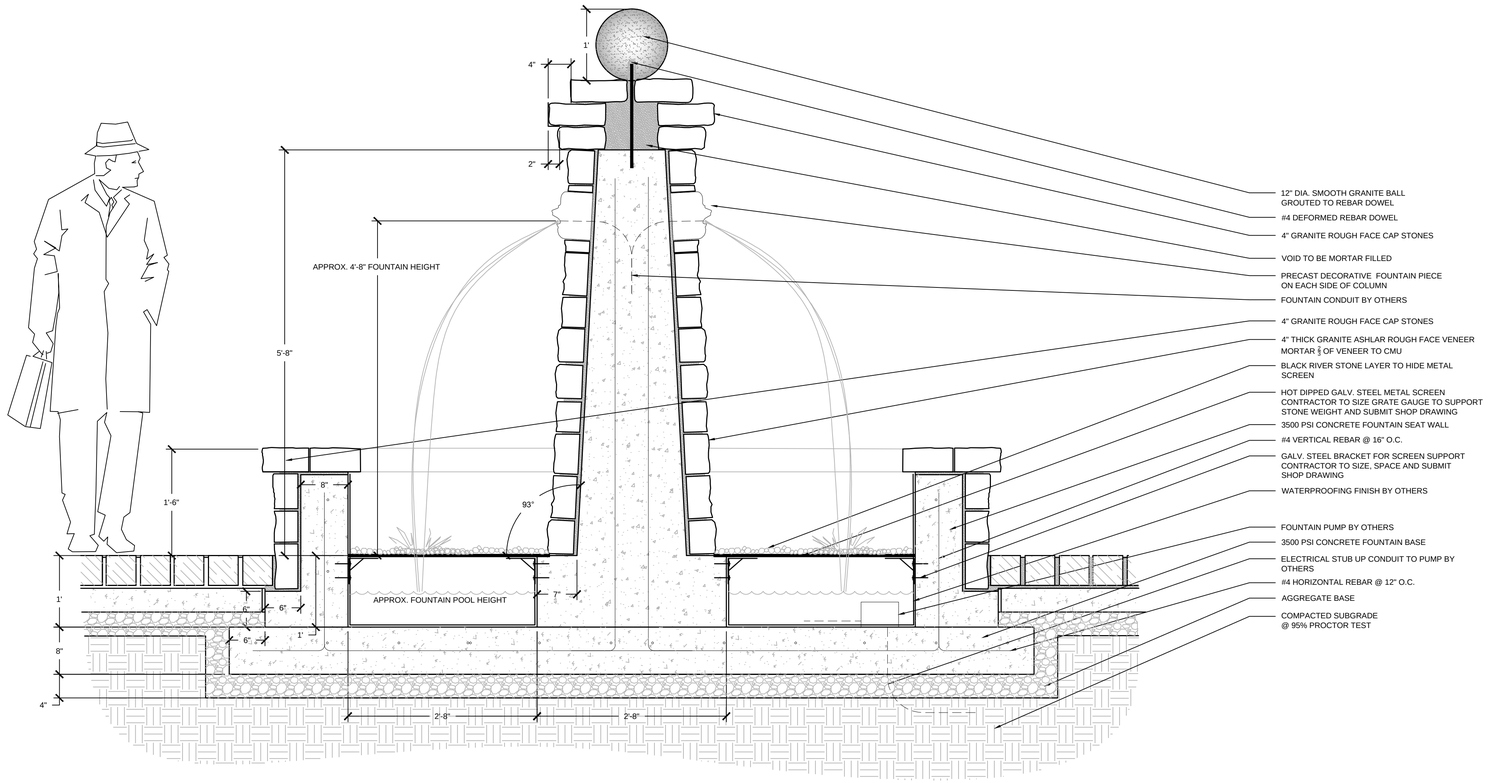

1 FOUNTAIN - DEDUCTIVE ALTERNATE #5
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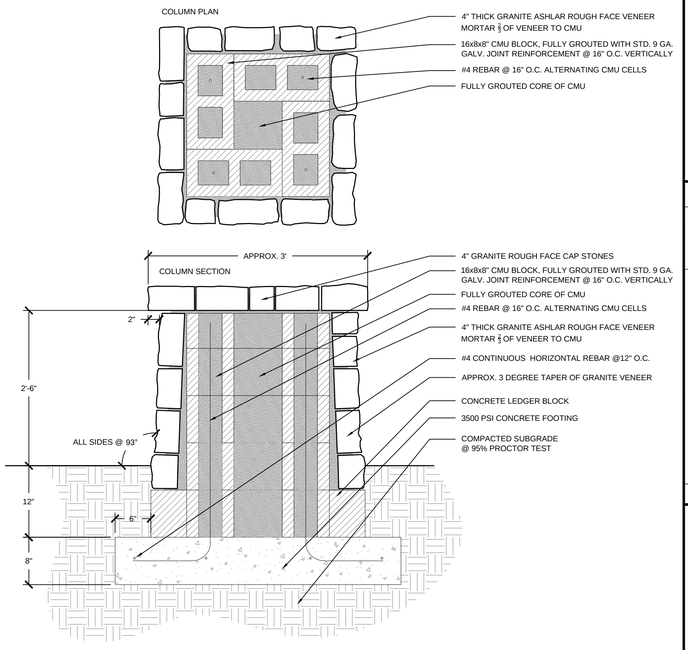
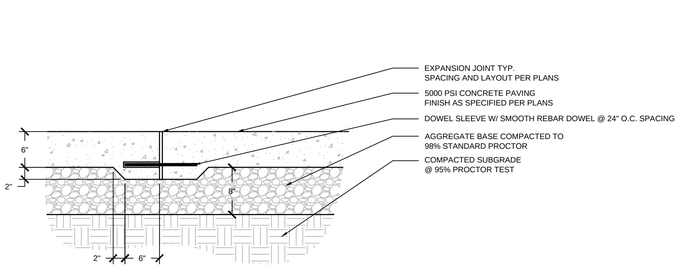
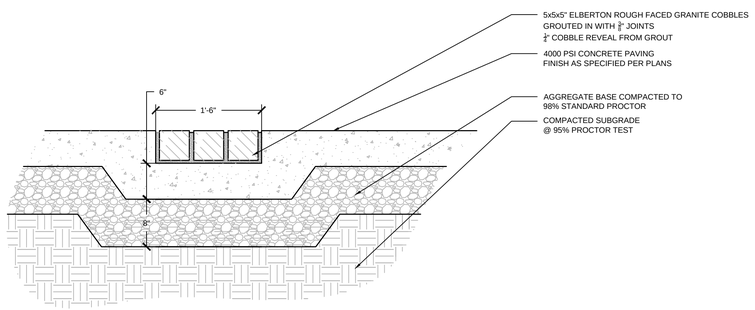


2 COLUMN B
SCALE: 1"=1'



3 HEAVY DUTY CONCRETE
SCALE: 1"=1'



4 COBBLE STONE BANDING
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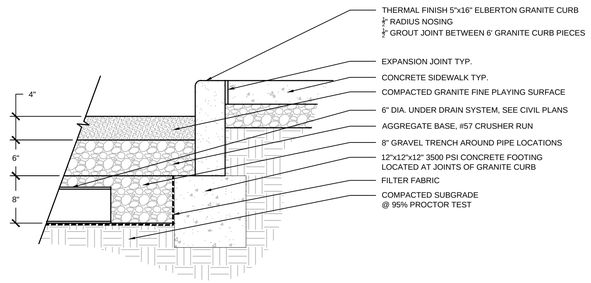
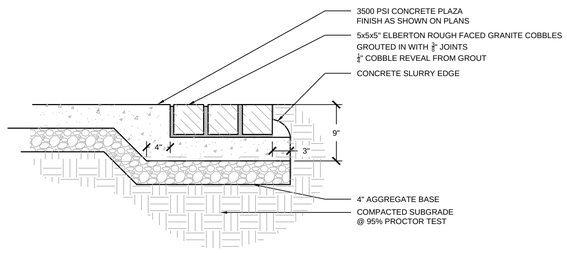
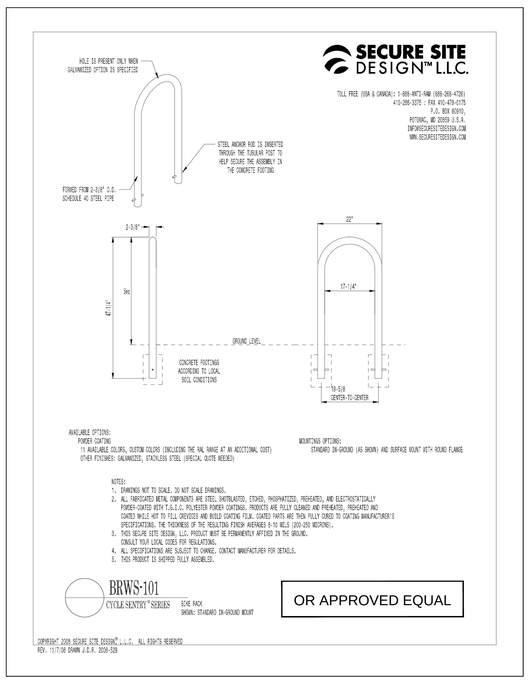


5 BOCCE COURT
SCALE: 1"=1'



6 COBBLE STONE EDGING
SCALE: 1"=1'



7 BIKE RACK (IN-GROUND QTY: 6 , SURFACE MOUNT QTY: 4)
SCALE: NTS

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SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
L3-03

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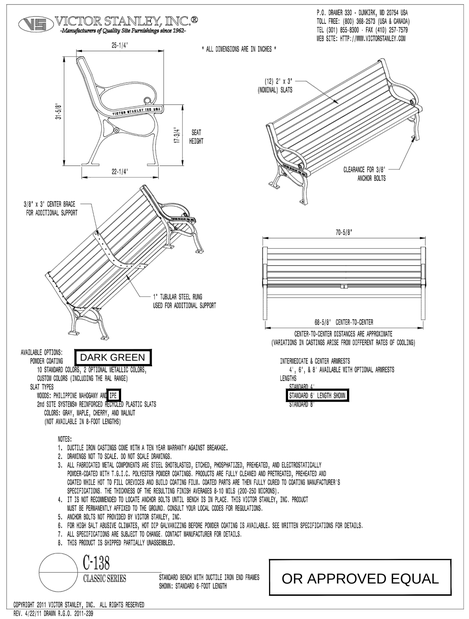

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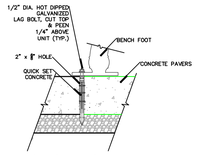
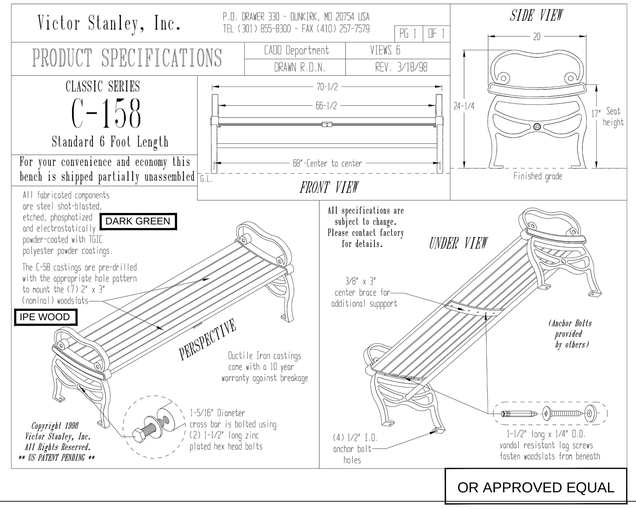


BENCHMOUNTING
SCALE: NTS



2 BENCH B (QTY: 10)
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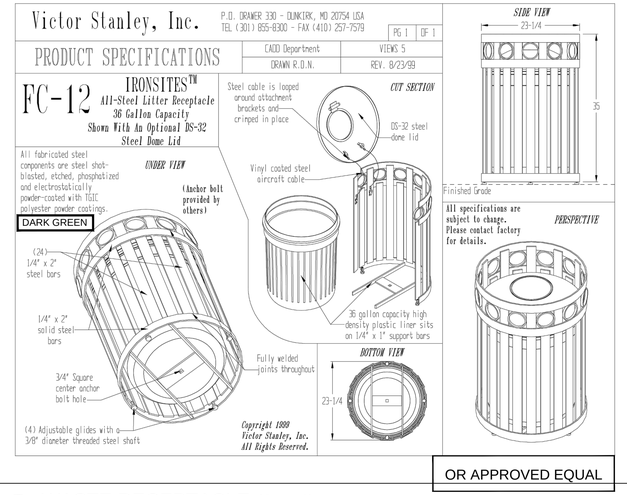
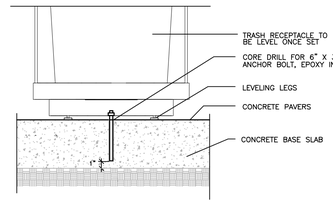


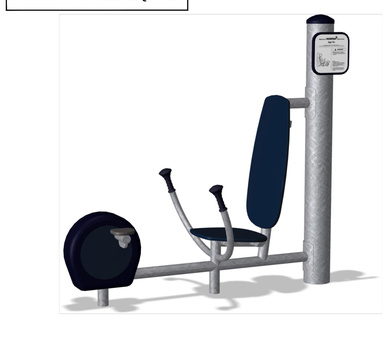
3 WASTE RECEPTACLE (QTY: 9)
SCALE: NTS



WASTE RECEPTACLE MOUNTING
SCALE: NTS



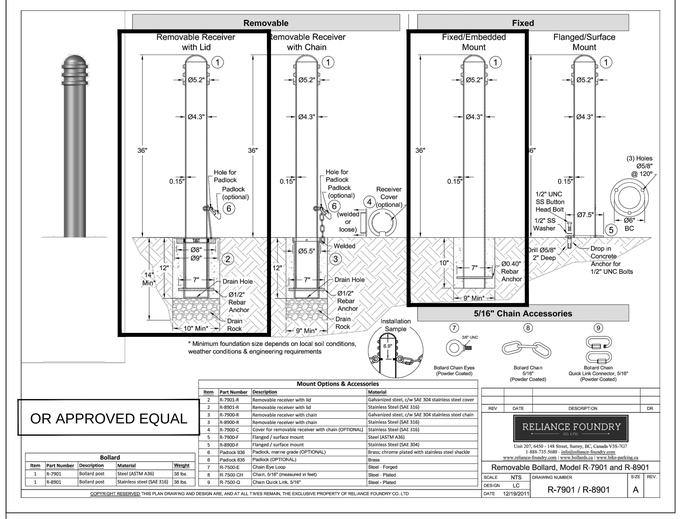
4 SIT-UP BENCH (QTY: 2)
SCALE: NTS



5 CYCLE TRAINER (QTY: 1)
SCALE: NTS



6 FREE RUNNER (QTY: 1)
SCALE: NTS



7 BOLLARD (REMOVABLE QTY: 6 , FIXED QTY: 12)
SCALE: NTS

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DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002
SHEET NUMBER	L3-04

Drawing name: K:\AMT_URG\019124002_Dunwoody Ren Parks\CADD\CONSTRV\L3-00_HARDSCAPE DETAILS.dwg L3-04 Jan 16, 2013 4:24pm by: aaron.legg
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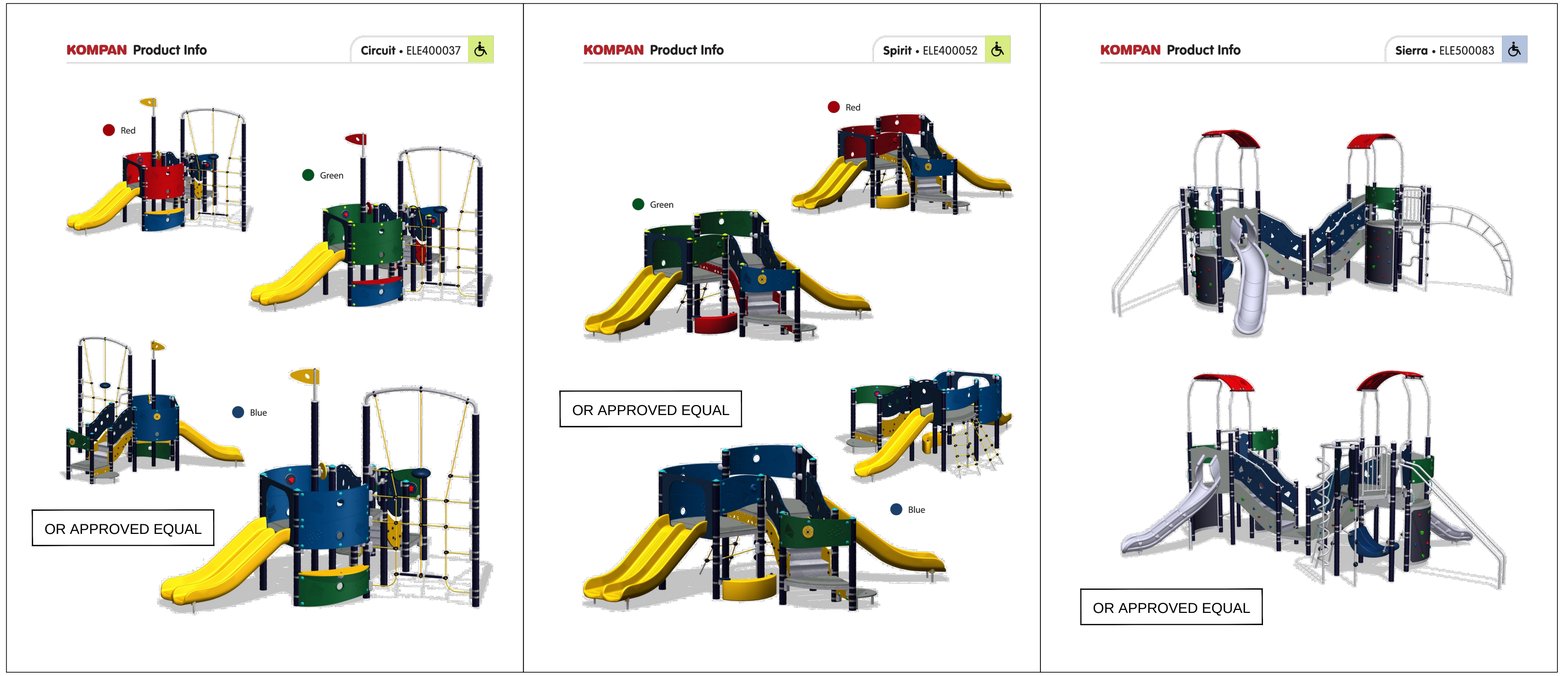
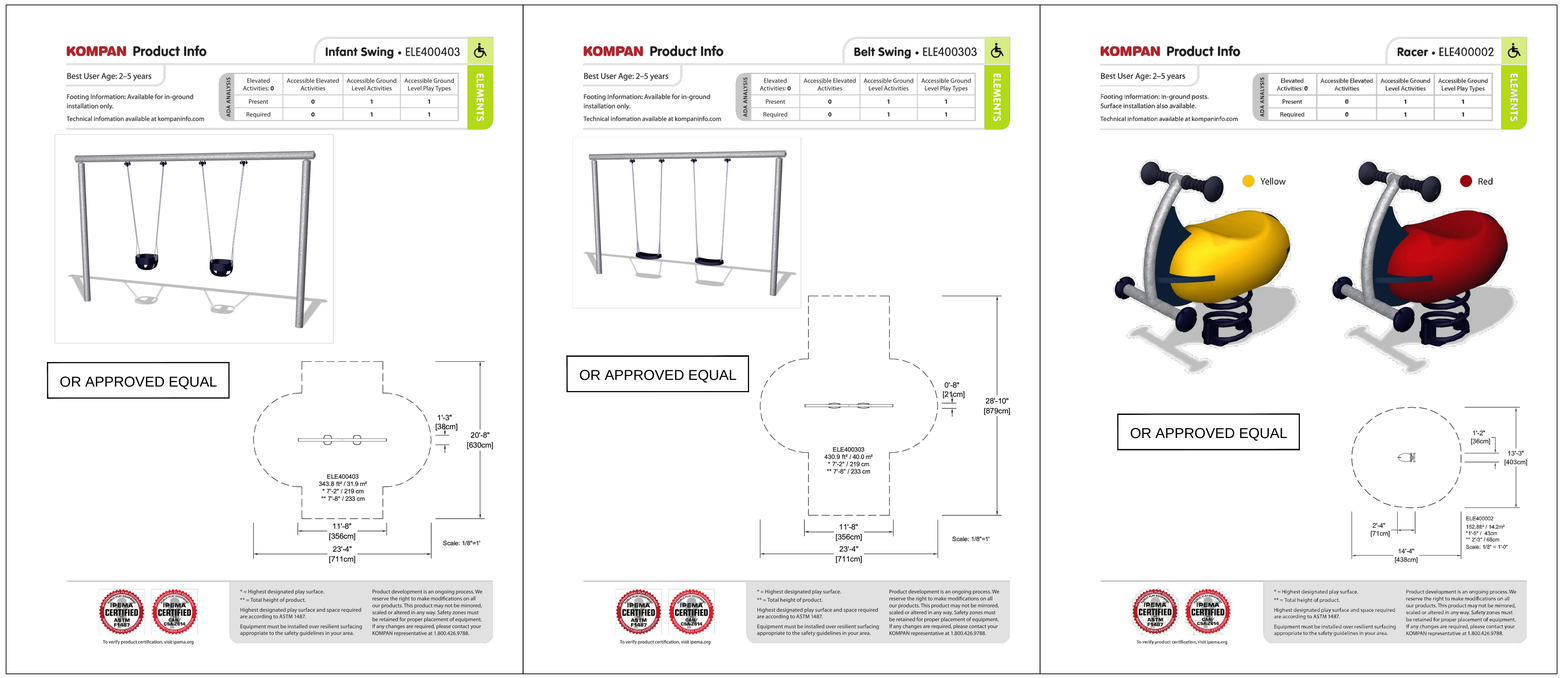


1 CIRCUIT PLAY EQUIMPENT
SCALE: NTS

2 SPIRIT PLAY EQUIMPENT
SCALE: NTS

3 SIERRA PLAY EQUIMPENT
SCALE: NTS



5 INFANT SWINGS
SCALE: NTS

6 BELT SWINGS
SCALE: NTS

7 RACER TOY
SCALE: NTS

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	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
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BID SET -
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SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12

KHA PROJECT NO.: 019124002

SHEET NUMBER
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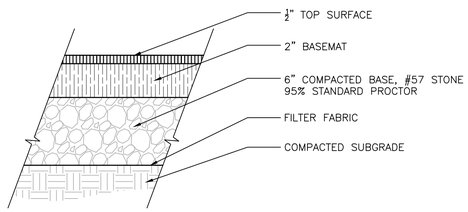
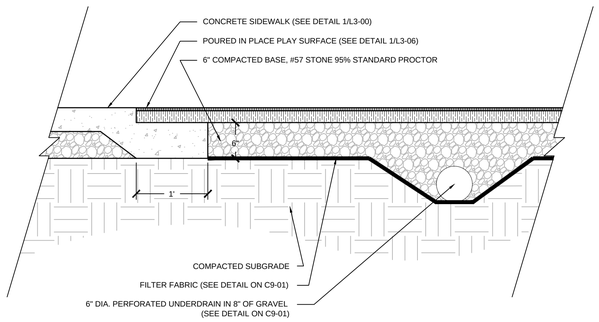
NOTES:
1. MATERIAL AND DEPTH TO BE INSTALLED PER SURFACE AMERICA'S SPECIFICATIONS AND INSTRUCTIONS.
2. REFER TO ENLARGEMENT FOR COLORS AND PATTERNS.
3. SEE CIVIL PLANS FOR DRAIN LOCATIONS.

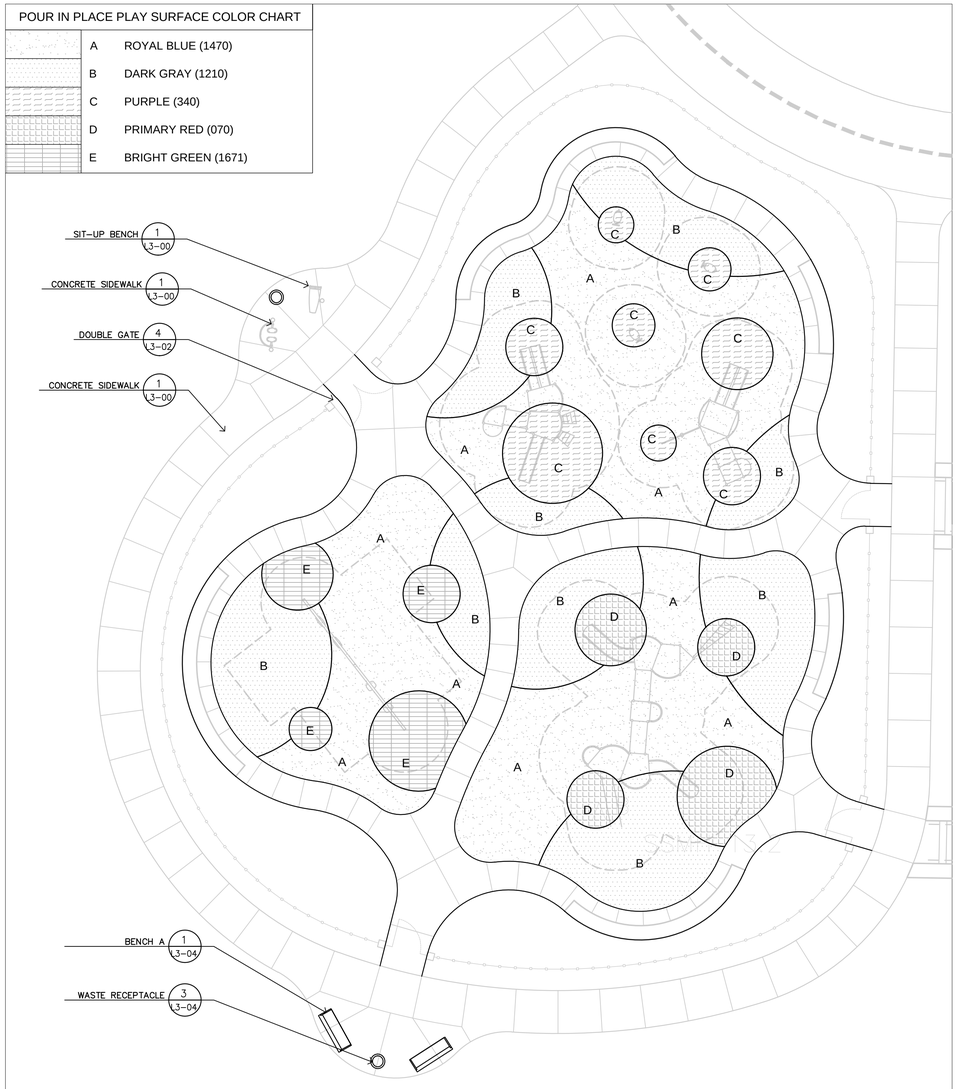


1 POUR IN PLACE PLAY SURFACE
SCALE: NTS



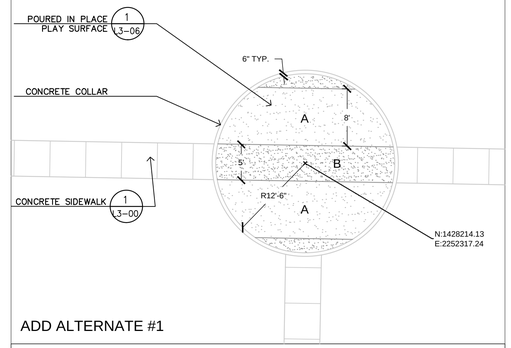
2 POUR IN PLACE PLAY SURFACE CONCRETE EDGE
SCALE: 1" = 1'

POUR IN PLACE PLAY SURFACE COLOR CHART		
	A	ROYAL BLUE (1470)
	B	DARK GRAY (1210)
	C	PURPLE (340)
	D	PRIMARY RED (070)
	E	BRIGHT GREEN (1671)



CHAMBLEE DUNWOODY FAMILY PARK PLAYGROUND ENLARGEMENT AT 10' SCALE

POUR IN PLACE PLAY SURFACE COLOR CHART		
	A	PEARL
	B	DARK GRAY (1210)



ADD ALTERNATE #1

CENTRAL SQUARE PARK
PLAYGROUND ENLARGEMENT AT 10' SCALE

NOTE

DEDUCTIVE ALTERNATE #6- FOR ALL POURED IN PLACE PLAY SURFACE TO BE A 50/50 MIXTURE WITH THE SELECTED COLOR AND BLACK.

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ADDENDUM 1

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SCALE (V):	NONE
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DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
L3-06

Drawing name: K:\ATL_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L3-00_HARDSCAPE DETAILS.dwg L3-06 Jan 17, 2013 9:12am by: aaron.legg
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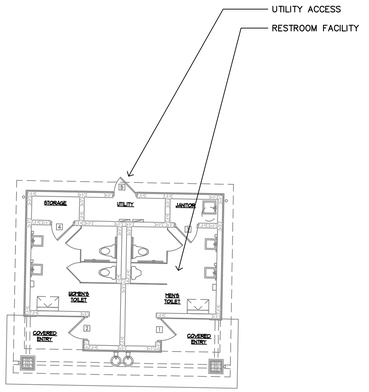
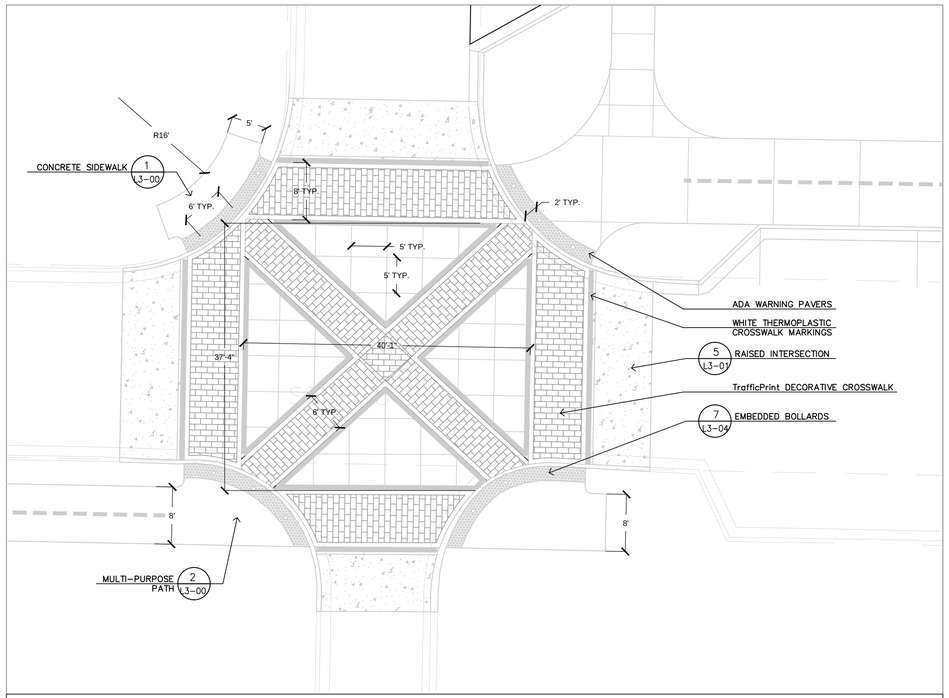
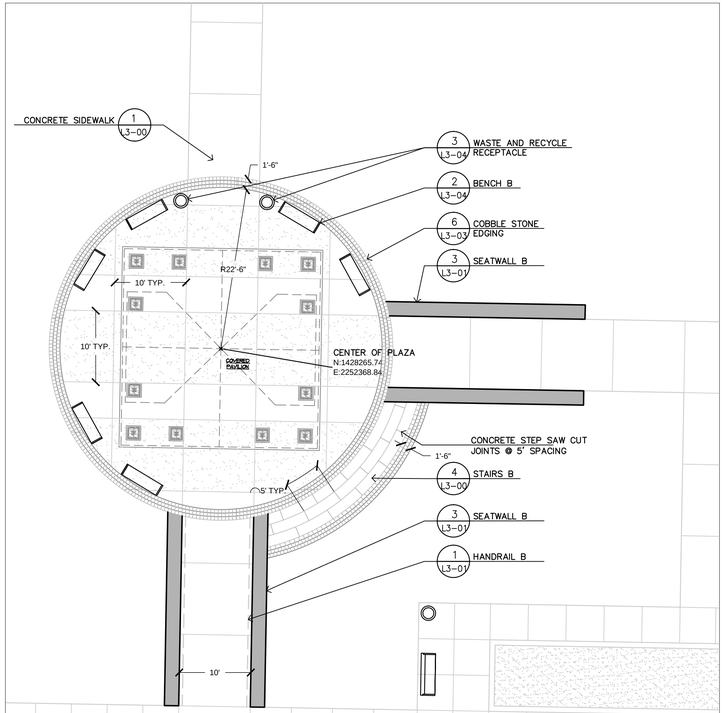


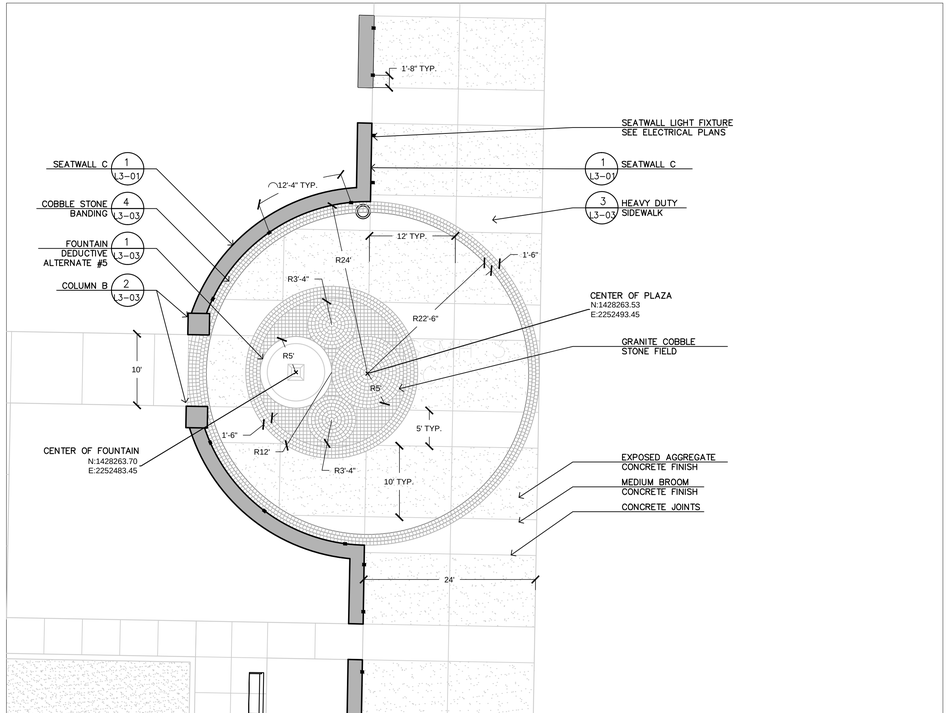
DEDUCTIVE ALTERNATE #1 RESTROOM ENLARGEMENT AT 10' SCALE



DEDUCTIVE ALTERNATE #4 RAISED INTERSECTION ENLARGEMENT AT 10' SCALE



PAVILION PLAZA ENLARGEMENT AT 10' SCALE



FOUNTAIN PLAZA ENLARGEMENT AT 10' SCALE

Know what's below. Call before you dig.

Kimley-Horn and Associates, Inc.
817 WEST PEACHTREE ST. NW
SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701
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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS
	DEKALB COUNTY DWM RESUB.	12/14/12	BWS
	GSWCC RESUBMITTAL	01/14/13	BWS
	DEKALB COUNTY DWM RESUBMITTAL	01/14/13	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

HARDSCAPE DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

BID SET - ADDENDUM 1

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	BS
DRAWN BY:	JHP
CHECKED BY:	JED
DATE:	11/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
L3-07

Drawing name: K:\ATL_URG\019124002_Dunwoody Ren Parks\CADD\CONSTR\L3-00_HARDSCAPE DETAILS.dwg L3-07 Jan 17, 2013 9:13am by: aaron.legg
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CITY OF DUNWOODY - RENAISSANCE PARK
PHASE I PARK STRUCTURES

ISSUED FOR BID -- JANUARY 4, 2013

APPLICABLE CODES AND ANALYSIS:

INTERNATIONAL BUILDING CODE (IBC) 2006 ED, WITH GA AND DEKALB AMENDMENTS

RULES & REGULATIONS OF THE SAFETY FIRE COMMISSIONER FOR THE STATE MINIMUM FIRE SAFETY STANDARDS, 8/31/2003.

NFPA LIFE SAFETY CODE, 200 ED, WITH GA AMENDMENTS

INTERNATIONAL FUEL GAS CODE 2006, WITH GA AND DEKALB AMENDMENTS

INTERNATIONAL MECHANICAL CODE 2006, WITH GA AND DEKALB AMENDMENTS

INTERNATIONAL PLUMBING CODE 2006, WITH GA AND DEKALB AMENDMENTS

INTERNATIONAL FIRE CODE 2006, WITH GA AMENDMENTS

GA ACCESSIBILITY CODE, CHAPTER 120-3-20A-016 (01-08) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

INTERNATIONAL ENERGY CONSERVATION CODE 2009, WITH GA AMENDMENTS

NFPA NATIONAL ELECTRICAL CODE 2011, WITH GA AND DEKALB AMENDMENTS

IBC-

303.1	ASSEMBLY (A5)	PAVILION- OUTDOOR ACTIVITIES
312.1	UTILITY/MISCELLANEOUS	RESTROOMS

TABLE 503 - ALLOABLE HEIGHT/AREA

PAVILION	TYPE VB	UNLIMITED AREA
RESTROOM	TYPE VB	1 STORY, 5,500 SF

TABLE 1004.1 - OCCUPANT LOAD

PAVILION	15 SF/PERSON (576 SF)	= 39 OCCUPANTS
RESTROOM	100 SF/PERSON (620 SF)	= 7 OCCUPANTS

TABLE 2902.1 - PLUMBING FIXTURES

ASSEMBLY (A5)	WC	LAV
MEN	1:75	1:200
WOMEN	1:40	1:150

LARGE RESTROOM SERVES 230 PATRONS

DRAWING INDEX:

SHEET	DATE	DESCRIPTION
A0.1	1/4/2013	INFORMATION SHEET
A0.2	1/4/2013	ACCESSIBILITY DETAILS
A1.1	1/4/2013	LARGE RESTROOM PLANS
A1.2	1/4/2013	SMALL RESTROOM PLANS
A1.3	1/4/2013	TOWN PAVILION PLANS
A1.4	1/4/2013	SHADE PAVILION DETAILS
A2.1	1/4/2013	LARGE RESTROOM ELEVATIONS
A2.2	1/4/2013	SMALL RESTROOM ELEVATIONS
A2.3	1/4/2013	TOWN PAVILION ELEVATIONS
A3.1	1/4/2013	LARGE RESTROOM SECTIONS, DETAILS
A3.2	1/4/2013	LARGE RESTROOM DETAILS
A3.3	1/4/2013	TIMBER TRUSS PROFILES
S0.1	1/4/2013	GENERAL NOTES & SPECIFICATIONS
S1.1	1/4/2013	TOWN PAVILION FOUNDATION PLANS
M0.1	1/4/2013	GENERAL NOTES
M1.1	1/4/2013	PLANS
P0.1	1/4/2013	GENERAL NOTES, RISER DIAGRAMS
P1.1	1/4/2013	PLUMBING PLANS
E1	1/4/2013	GENERAL NOTES
E2	1/4/2013	LARGE RESTROOM PLANS
E3	1/4/2013	PAVILION, SMALL RESTROOM PLANS
E4	1/4/2013	SPECIFICATIONS

PROJECT DESCRIPTION:

THE SCOPE OF THE WORK DESCRIBED WITHIN THESE DOCUMENTS SHALL INCLUDE THE CONSTRUCTION OF FOUR (4) STRUCTURES-

	BUILDING	AREA	LOCATION
1.	LARGE RESTROOM	620SF	FAMILY PARK
2.	SHADE PAVILION	80SF	FAMILY PARK
3.	TOWN PAVILION	625SF	CENTRAL SQUARE
4.	SMALL RESTROOM	200SF*	CENTRAL SQUARE

THESE STRUCTURES SHALL BE BUILT IN CONJUNCTION WITH THE CITY OF DUNWOODY'S RENAISSANCE PARK DEVELOPMENT. THESE DRAWINGS SHALL SERVE AS AN ATTACHMENT OR ADDENDUM TO THE SITE IMPROVEMENT DOCUMENTS SUBMITTED UNDER THE PERMIT # 2012-6464

THE STRUCTURES ARE UNDERSTOOD TO EXPEND LESS THAN THE PRESCRIBED AMOUNT OF ENERGY FOR SPACE CONDITIONING, AND THEREFORE NO ENERGY LOAD ANALYSIS HAS BEEN INCLUDED.

THE STRUCTURES VARY IN CONSTRUCTION TYPE. ALL ENCLOSED STRUCTURES SHALL HAVE CMU WALLS WITH WOOD FRAMED TRUSSES. OPEN AIR STRUCTURES WILL HAVE MASONRY BEARING PIERS WITH TIMBER FRAMED ROOFS.

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KACENA DESIGN

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Fax: (404) 419-9701

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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

PHASE 1
PARK STRUCTURES

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA
CERTIFICATE NO. 017862
REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012
KHA PROJECT NO.:	019124002

SHEET NUMBER
A0.1

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11-4.16 WATER CLOSETS.

11-4.16.1 General. Accessible water closets shall comply with 11-4.16.

11-4.16.2 Clear Floor Space. Clear floor space for water closets not in stalls shall comply with Fig. 28. Clear floor space may be arranged to allow either a left-handed or right-handed approach.

11-4.16.3 Height. The height of water closets shall be 17" to 19" (430 mm to 485 mm), measured to the top of the toilet seat (see Fig. 29(b)). Seats shall not be sprung to return to a lifted position.

11-4.16.4 Grab Bars. Grab bars for water closets not located in stalls shall comply with 11-4.26 and Fig. 29. The grab bar behind the water closet shall be 36" (915mm) minimum.

11-4.16.5 Flush Controls. Flush controls shall be hand operated or automatic and shall comply with 11-4.27.4. Controls for flush valves shall be mounted on the wide side of toilet areas no more than 44" (1120mm) above the floor.

11-4.16.6 Dispensers. Toilet paper dispensers shall be installed within reach, as shown in Fig. 29(b). Dispensers that control delivery, or that do not permit continuous paper flow, shall not be used.

11-4.17 TOILET STALLS.

11-4.17.1 Location. Accessible toilet stalls shall be on an accessible route and shall meet the requirements of 11-4.17.

11-4.17.2 Water Closets. Water closets in accessible stalls shall comply with 11-4.16.

11-4.17.3 Size and Arrangement. The size and arrangement of the standard toilet stall shall comply with Fig. 30(a), Standard Stall. Standard toilet stalls with a minimum depth of 56" (1420mm)(see Fig. 30(a)) shall have wall-mounted water closets. If the depth of a standard toilet stall is increased at least 3" (75mm), then a floor-mounted water closet may be used. Arrangements shown for standard toilet stalls may be reversed to allow either a left or right-hand approach. Additional stalls shall be provided in conformance with 11-4.22.4.

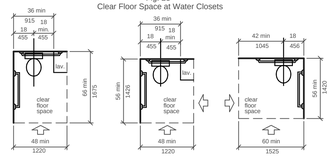
EXCEPTION: In instances of alteration work where provision of a standard stall (Fig. 30(a)) is technically infeasible or where plumbing code requirements prevent combining existing stalls to provide space, either alternate stall (fig. 30(b)) may be provided in lieu of the standard stall.

EXCEPTION: New Construction

(1) The standard accessible restroom stall shall contain an accessible lavatory within it, the size of such lavatory to be not less than 19 inches wide by 17 inches deep, nominal size, and wall mounted. The lavatory shall be mounted so as not to overlap the clear floor space areas required by Section 11-4.17 (See Figure 30(a) and (e)) and to comply with Section 111-4.19 of the code. Such lavatories shall be counted as part of the required fixture count for the building.

(2) The accessible water closet shall be located in the corner, diagonal to the door.

Fig. 28
Clear Floor Space at Water Closets



11-4.17.4 Toe Clearances. In standard stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9" (230mm) above the floor. If the depth of the stall is greater than 60" (1525mm), then the toe clearance is not required.

11-4.14.5 Door. Toilet stall doors, including door hardware, shall comply with 11-4.13. If toilet stall approach is from the latch side of the stall door, clearance between the door side of the stall and any obstruction may be reduced to a minimum of 42" (1065mm) (see Fig. 30). Doors shall not swing into the clear floor space of any fixture.

11-4.17.6 Grab Bars. Grab bars complying with the length and positioning shown in Fig. 30(a),(b),(c) and (d) shall be provided. Grab bars may be mounted with any desired method as long as they have a gripping surface at the locations shown and do not obstruct the required clear floor area. Grab bars shall comply with 11-4.26.

Fig. 29
Grab bars at Water Closets

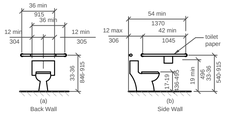
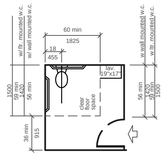
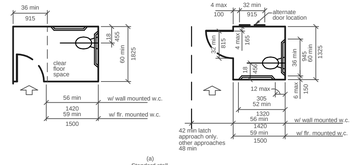


Fig. 30(e)
Toilet Stall New Construction





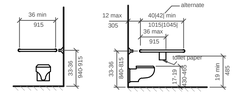


Fig. 30
Toilet stalls

WATER CLOSETS & TOILET STALLS (PER ADA CODE)

4.26.1* General. All handrails, grab bars, and tub and shower seats required to be accessible by 4.1,4.8,4.9,4.16, 4.17,4.20 or 4.21 shall comply with 4.26.

4.26.2* Size and Spacing of Grab Bars and Handrails. The diameter or width of the gripping surfaces of a handrail or grab bar shall be 1 1/4" to 1 1/2"(32mm to 38mm), or the shape shall provide an equivalent gripping surface. If handrails or grab bars are mounted adjacent to a wall, the space between the wall and the grab bar shall be 1 1/2"(38mm) see Fig. 39(a),(b),(c),and(e)). Handrails may be located in a recess if the recess is a maximum of 3"(75mm) deep and extends at least 18"(455mm) above the top of the rail (see Fig. 39(d)).

4.26.3 Structural Strength. The structural strength of grab bars, tub and shower seats, fasteners, and mounting devices shall meet the following specification:

(1). Bending stress in a grab bar or seat induced by the maximum bending moment from the application of 250 lbf(1112N) shall be less than the allowable stress for the material of the grab bar or seat.

(2). Shear stress induced in a grab bar or seat by the application of 250 lbf(1112N) shall be less than the allowable shear stress for the material of the grab bar or seat. If the connection between the grab bar or seat and its mounting bracket or other support is considered to be fully restrained, then direct and torsional sheer stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.

(3). Shear force induced in a fastener or mounting device from the application of 250 lbf(1112N) shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.

(4). Tensile force induced in a fastener by a direct tension force of 250 lbf(1112N) plus the maximum moment from the application of 250 lbf(1112N) shall be less than the allowable withdrawal load between the fastener and the supporting structure.

(5). Grab bars shall not rotate within their fittings.

4.26.4 Eliminating Hazards. A handrail or grab bar and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements. Edges shall have a minimum radius of 1/8"(3.2mm).

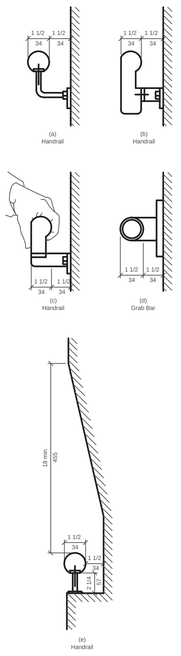
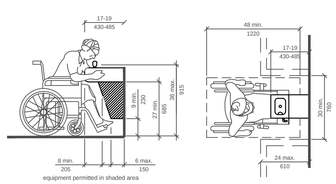


Fig 39
Size and Spacing of Handrails and Grab Bars

HANDRAILS,GRAB BARS,SEATS



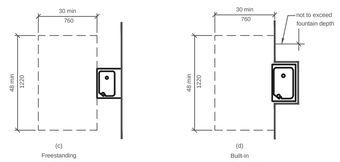


Fig. 27
Drinking Fountains and Water Coolers

4.15 DRINKING FOUNTAINS AND WATER COOLERS.

4.15.1. Minimum Number. Drinking fountains or water coolers required to be accessible by 4.1 shall comply with 4.15.

4.15.2* Spout Height. Spouts shall be no higher than 36" (915mm), measured from the floor or ground surfaces to be the spout outlet (see Fig. 27(a)).

4.15.3 Spout Location. The spouts of drinking fountains and water coolers shall be at the front of the unit and shall direct the water flow in a trajectory that is parallel or nearly of water at least 4"(100mm) high so as to allow the insertion parallel to the front of the unit. The spout shall provide a flow of a cup or glass under the flow of water. On an accessible drinking fountain with a round or oval bowl, the spout must be positioned so the flow of water is within 3"(75mm) of the front edge of the fountain.

4.15.4 Controls. Controls shall comply with 4.27.4. Unit controls shall be front mounted or side mounted near the front edge.

4.15.5 Clearances.

(1) Wall and post-mounted cantilevered units shall have a clear knee space between the bottom of the apron and the floor or ground at least 27"(685mm) high, 30"(760mm) wide, and 17" to 19" (430mm to 485mm) deep (see Fig. 27(a) and (b)). Such units shall also have a minimum clear floor space 30" by 48" (760 mm by 1220mm) to allow a person in a wheelchair to approach the unit facing forward.

(2) Freestanding or built-in units not having a clear space under them shall have a clear floor space at least 30" by 48" (760 mm by 1220 mm) that allows a person in a wheelchair to make a parallel approach to the unit (see Fig. 27(c) and (d)). This clear floor space shall comply with 4.2.4.

DRINKING FOUNTAINS

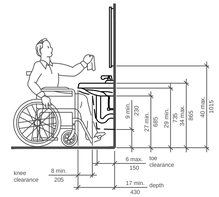


Fig. 31
Lavatory Clearances

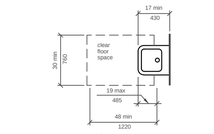


Fig. 32
Clear Floor Space at Lavatories

4.19 LAVATORIES AND MIRRORS.

4.19.1 General. The requirements of 4.19 shall apply to lavatory fixtures, vanities, and built-in lavatories.

4.19.2 Height and Clearances. Lavatories shall be mounted with the rim or counter surface no higher than 34" (865 mm) above the finish floor. Provide a clearance of at least 29" (735 mm) above the finish floor to the bottom of the apron. Knee and toe clearance shall comply with Fig. 31.

4.19.3 Clear Floor Space. A clear floor space 30" by 48" (760 mm by 1220 mm) complying with 4.2.4 shall be provided in front of a lavatory to allow forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19" (485 mm) underneath the lavatory (see Fig. 32).

4.19.4. Exposed Pipes and Surfaces. Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be sharp or abrasive surfaces under lavatories.

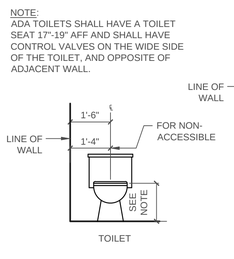
4.19.5 Faucets. faucets shall comply with 4.27.4 Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

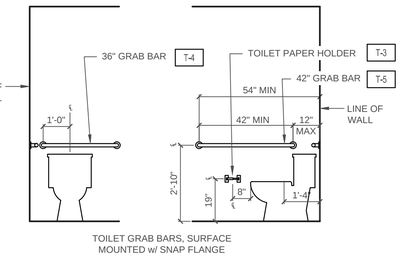
4.19.6* Mirrors. Mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40" (115 mm) above the finish floor (see Fig. 31).

LAVATORIES

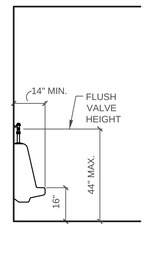
TOILET: (P-2a)

NOTE:
ADA TOILETS SHALL HAVE A TOILET SEAT 17"-19" AFF AND SHALL HAVE CONTROL VALVES ON THE WIDE SIDE OF THE TOILET, AND OPPOSITE OF ADJACENT WALL.

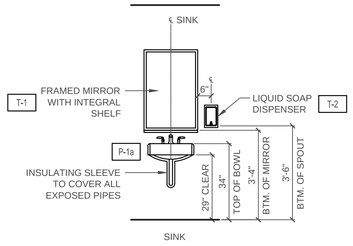




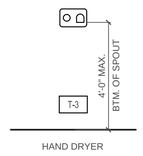
URINAL: (P-3)



SINK: (P-1A)



ACCESSORIES



TOILET FIXTURES

P-1a	WALL HUNG SINK (ACCESSIBLE)
P-1b	WALL HUNG SINK (STANDARD)
P-2a	FLOOR MOUNTED FLUSH VALVE WATER CLOSET (ACCESSIBLE)
P-2b	FLOOR MOUNTED FLUSH VALVE WATER CLOSET (STANDARD)
P-3	WALL HUNG URINAL (ACCESSIBLE)

TOILET ACCESSORIES

T-1	WALL MOUNTED FRAMED MIRROR (24" X 36")
T-2	WALL MOUNTED LIQUID SOAP DISPENSER
T-3	WALL MOUNTED HAND DRYER
T-4	WALL / PARTITION MOUNTED GRAB BAR (36")
T-5	WALL / PARTITION MOUNTED GRAB BAR (42")
T-6	WALL / PARTITION MOUNTED TOILET PAPER DISPENSER

1 A0.1 TOILET FIXRURES & ACCESSORIES
3/8" = 1'-0"

4.13 DOORS.

4.13.1 General. Doors required to be accessible by 4.1 shall comply with the requirements of 4.13.

4.13.2 Revolving Doors and Turnstiles. Revolving doors or Turnstiles shall not be the only means of passage at an accessible entrance or along an accessible route. An accessible gate or door shall be provided adjacent to the turnstile or revolving door and shall be so designed as to facilitate the same use pattern.

4.13.3 Gates. Gates, including ticket gates, shall meet all applicable specifications of 4.13.

4.13.4 Double-leaf Doorways. If doorways have two independently operated door leaves, then at least one leaf shall meet the specifications in 4.13.5 and 4.13.6. That leaf shall be an active leaf.

4.13.5 Clear Width. Doorways shall have a minimum clear opening of 32"(815mm) with the door open 90 , measured between the face of the door and the opposite stop (see Fig. 24(a),(b),(c) and (d)). Openings more than 24"(610mm) in depth shall comply with 4.2.1 and 4.3.3 (see Fig. 24(e)).

EXCEPTION: Doors not requiring full user passage, such as shallow closets, may have the clear opening reduced to 20" (510mm) minimum.

4.13.6 Maneuvering Clearances at Doors. Minimum maneuvering clearances at doors that are not automatic or power-assisted shall be shown in Fig. 25. The floor or ground area within the required clearances shall be level and clear.

EXCEPTION. Entry doors to acute care hospital bedrooms for in-patients shall be exempted from the requirement for space at the latch side of the door (see dimension "x" in Fig. 25) if the door is at least 44" (1120mm) wide.

4.13.7 Two Doors in Series. The minimum space between two hinged or pivoted doors in series shall be 48"(1220mm) plus the width of any door swinging into the space. Doors in series shall swing either in the same direction or away from the space between the doors (see Fig. 26).

4.13.8* Thresholds at Doorways. Thresholds at doorways shall not exceed 3/4"(19mm) in height for exterior sliding doors or 1/2"(13mm) for other types of doors. Raised thresholds and floor level changes at accessible doorways shall be beveled with a slope no greater than 1:2 (see 4.5.2).

4.13.9* Door Hardware. Handles, pulls, latches, locks and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully opened, operating hardware shall be exposed and usable from both sides. Hardware required for accessible door passage shall be mounted no higher than 48"(1220mm) above finished floor.

4.13.10* Door Closers. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70 , the door will take at least 3 seconds to move to a point 3"(75mm) from the latch, measured to the leading edge of the door.

4.13.11* Door Opening Force. The maximum force for pushing or pulling open a door shall be as follows:

(1) Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

(2) Other doors:
(a) exterior hinged doors: (Reserved).
(b) interior hinged doors: 5lbf(22.2N).
(c) sliding or folding doors: 5 lbf (22.2N).

These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

4.13.12* Automatic Doors and Power-Assisted Doors. If an automatic door is used, then it shall comply with ANSI/BHMA A156.10-1985, Slowly opening, low-powered, automatic doors shall comply with ANSI A 156.19-1984. Such doors shall not open to back check faster than 3 seconds and shall require no more than 15 lbf(66.6N) to stop door movement. If a power-assisted door is used, its door-opening force shall comply with 4.13.11 and its closing shall conform to requirements in ANSI A 156.19-1984.

4.14 ENTRANCES.

4.14.1 Minimum Number. Entrances required to be accessible by 4.1 shall be part of an accessible route complying with 4.3. Such entrances shall be connected by an accessible route to public transportation stops, to accessible parking and passenger loading zones, and to public streets or sidewalks if available (see 4.3.2(1)). They shall also be connected by an accessible route to all accessible spaces or elements within the building or facility.

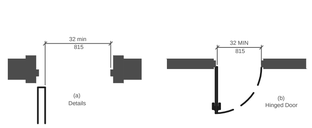


Fig. 24
Clear Doorway Width and Depth

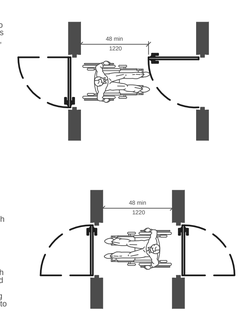
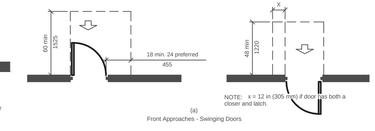
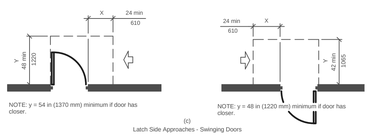
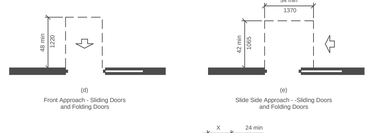


Fig. 26
Two Hinged Doors in Series

THE DETAILS WITHIN THIS SHEET ARE FOR REFERENCE ONLY







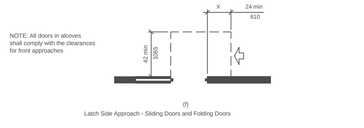


Fig. 25
Maneuvering Clearances at Doors (Continued)

DOORS & MANEUVERING CLEARANCES

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KACENA DESIGN

No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
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(678) 382-6800

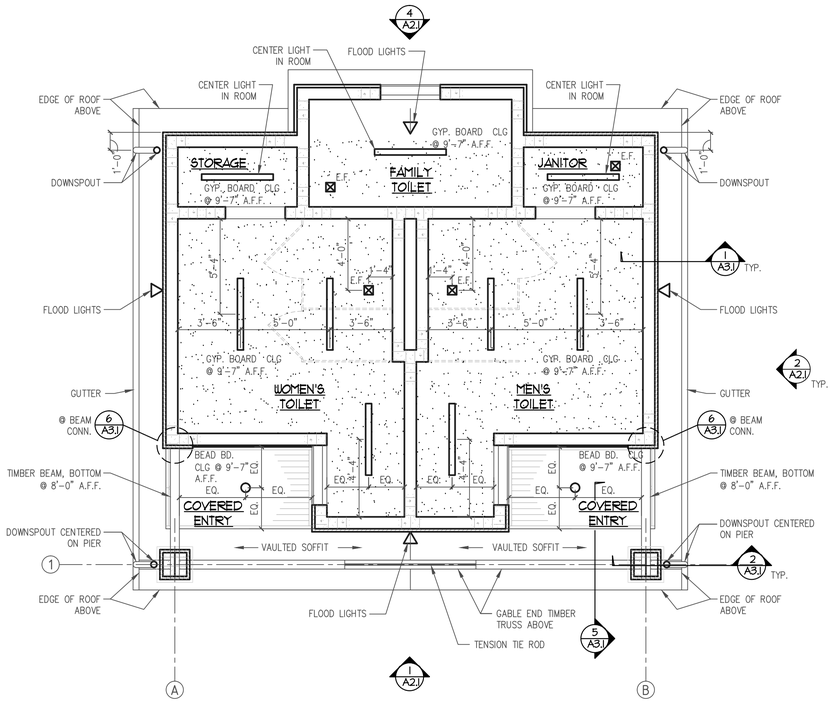
ACCESSIBILITY DETAILS

STATE OF GEORGIA
Christopher Kacena
12-18-12
CERTIFICATE NO. 031567
REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

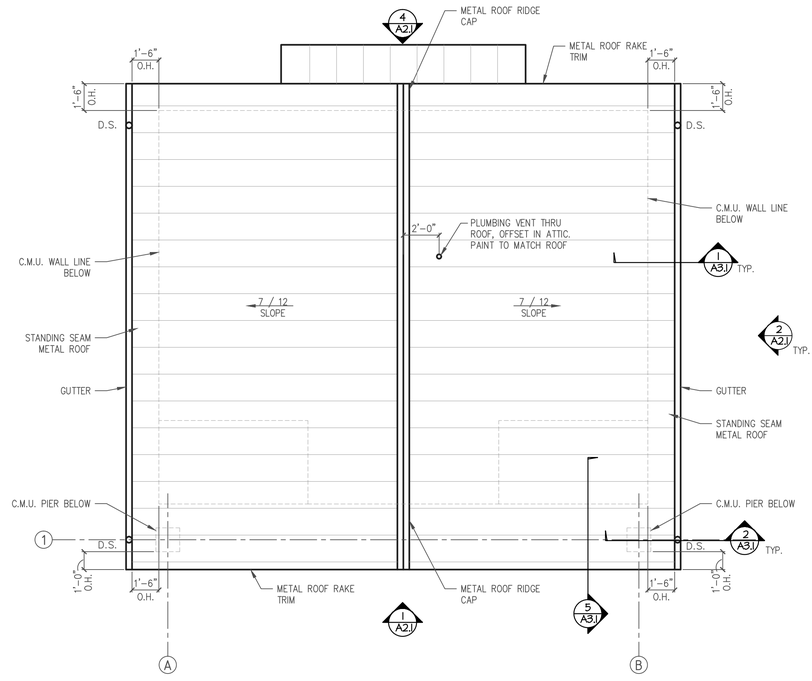
KHA PROJECT NO.: 019124002

SHEET NUMBER
A0.2



1 A1.1 RESTROOM BUILDING REFLECTED CEILING PLAN

1/4" = 1'-0"



2 A1.1 RESTROOM BUILDING ROOF PLAN

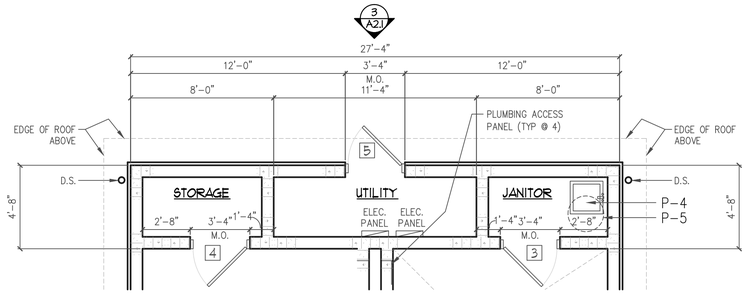
1/4" = 1'-0"

CEILING LEGEND

- SURFACE MOUNTED SINGLE BULB 4' FLOURESCENT LIGHT FIXRURE
- WALL MOUNTED SECURITY LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- RECESSED EXTERIOR CAN LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- GYPSUM BOARD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES
- BEAD BOARD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES

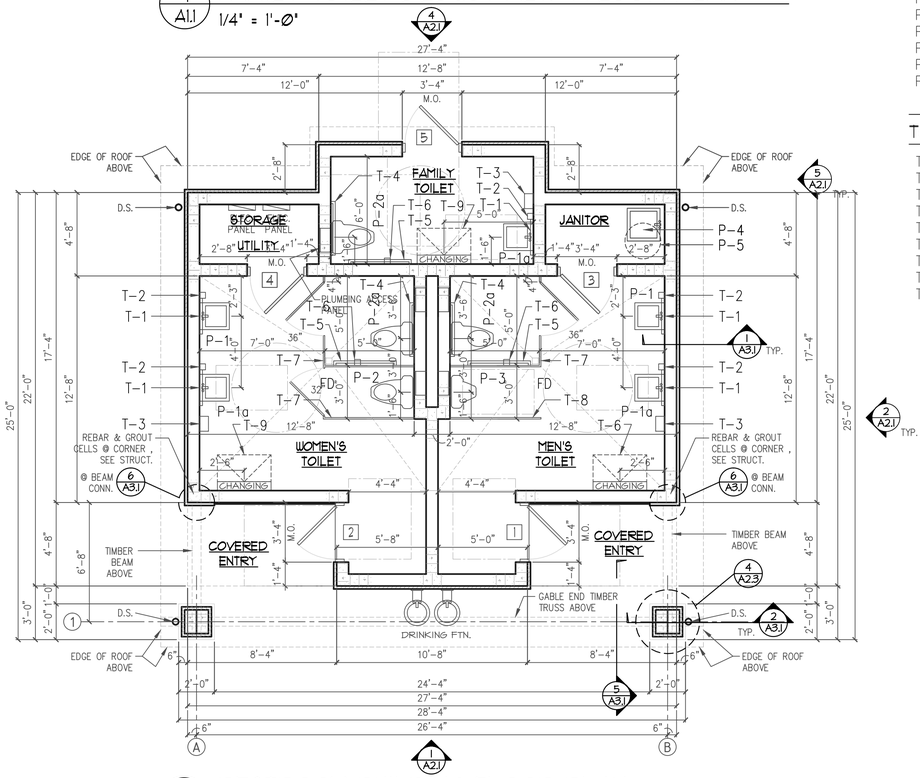
DOOR SCHEDULE

No.	SIZE	SIZE	TYPE	FRAME	REMARKS
1	3'-0" x 7'-0"	MEN'S TOILET	H.M.	H.M.	
2	3'-0" x 7'-0"	WOMEN'S TOILET	H.M.	H.M.	
3	3'-0" x 7'-0"	JANITOR	H.M.	H.M.	
4	3'-0" x 7'-0"	STORAGE	H.M.	H.M.	
5	3'-0" x 7'-0"	FAMILY TOILET	H.M.	H.M.	



4 A1.1 FAMILY TOILET DEDUCT ALT. #1 FLOOR PLAN

1/4" = 1'-0"



1 A1.1 RESTROOM BUILDING FLOOR PLAN

1/4" = 1'-0"

SYMBOLS

- 4 KEY NOTE
- 3 DOOR No.
- C WINDOW No.
- 2 PARTITION TYPE
- 2 A6 SECTION CUT — DETAIL / SHEET
- 2 A6 ELEVATION

PARTITION TYPES

- EXTERIOR WALL: REINFORCED 8" C.M.U. WALL WITH APPLIED STONE VENEER, (PAINT INTERIOR), SEE WALL SECTION (1/A3.1)
- INTERIOR WALL: REINFORCED 8" C.M.U. WALL (PAINT INTERIOR), SEE DETAIL (3/A3.1)
- PIER: REINFORCED 16" SQUARE 8" C.M.U. PIER WITH APPLIED TAPERED STONE VENEER (2" TOTAL TAPER), SEE DETAIL (4/A3.1)
- INDICATES THE CODE REQUIRED TURN-A-ROUND SPACE AND CLEAR FLOOR SPACE FOR ACCESSIBLE FIXTURES AND DOORS.

TOILET FIXTURES

- P-1a WALL HUNG SINK (ACCESSIBLE)
- P-1b WALL HUNG SINK (STANDARD)
- P-2a FLOOR MOUNTED FLUSH VALUE WATER CLOSET (ACCESSIBLE)
- P-2b FLOOR MOUNTED FLUSH VALUE WATER CLOSET (STANDARD)
- P-3 WALL HUNG URINAL (ACCESSIBLE)
- P-4 JANITOR'S MOP SINK
- P-5 WATER HEATER ON WALL MOUNTED PLATFORM

TOILET ACCESSORIES

- T-1 WALL MOUNTED FRAMED MIRROR (24" X 36")
- T-2 WALL MOUNTED LIQUID SOAP DISPENSER (OWNER PROVIDED)
- T-3 WALL MOUNTED HAND DRYER (OWNER PROVIDED)
- T-4 WALL / PARTITION MOUNTED GRAB BAR (36")
- T-5 WALL / PARTITION MOUNTED GRAB BAR (42")
- T-6 WALL / PARTITION MOUNTED TOILET PAPER DISPENSER
- T-7 WALL / FLOOR MOUNTED URINAL TOILET PARTITON
- T-8 WALL / FLOOR MOUNTED URINAL PARTITION
- T-9 WALL MOUNTED BABY CHANGING STATION

KACENA DESIGN

Kimley-Horn and Associates, Inc.
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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

LARGE RESTROOM BUILDING:
PLANS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA — Daniel Christopher Kacena — REGISTERED ARCHITECT — CERTIFICATE NO. 019124 — 12.18.12

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012
KHA PROJECT NO.:	019124002

SHEET NUMBER
A1.1

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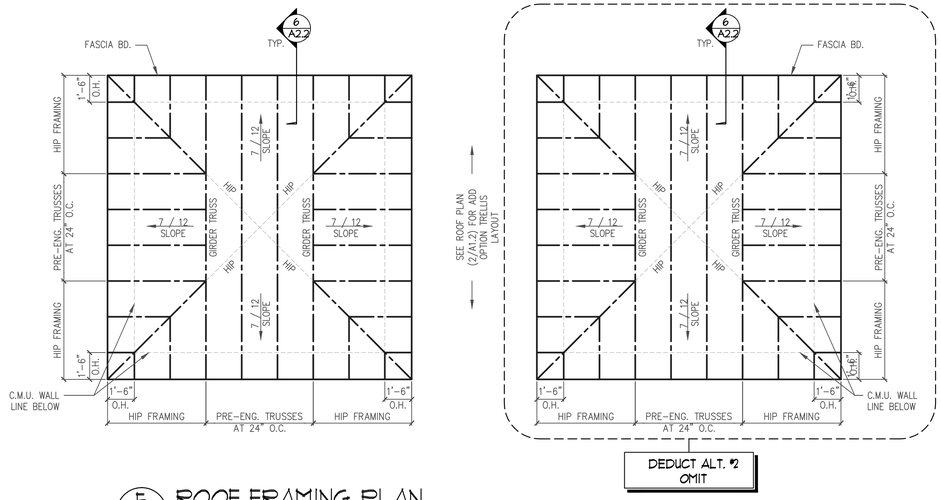
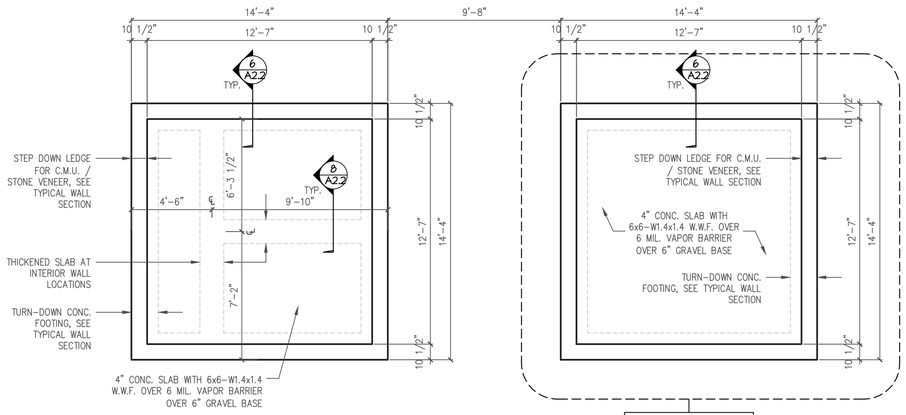


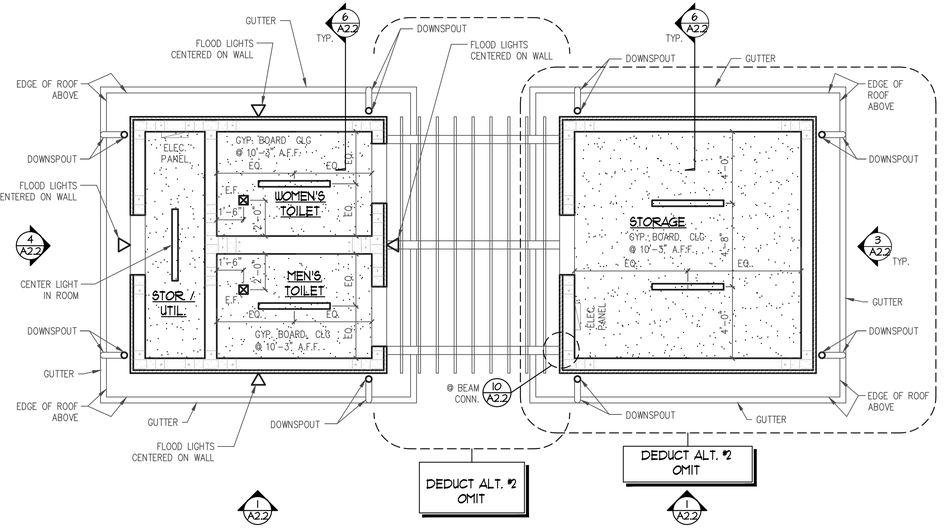
5 A1.2 ROOF FRAMING PLAN

1/4" = 1'-Ø"



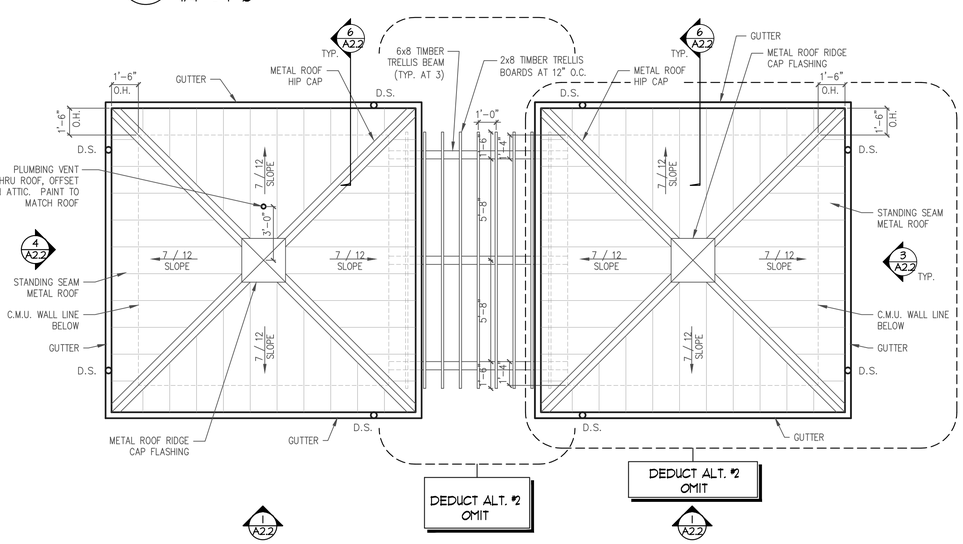
4 A1.2 SLAB / FOUNDATION PLAN

1/4" = 1'-Ø"



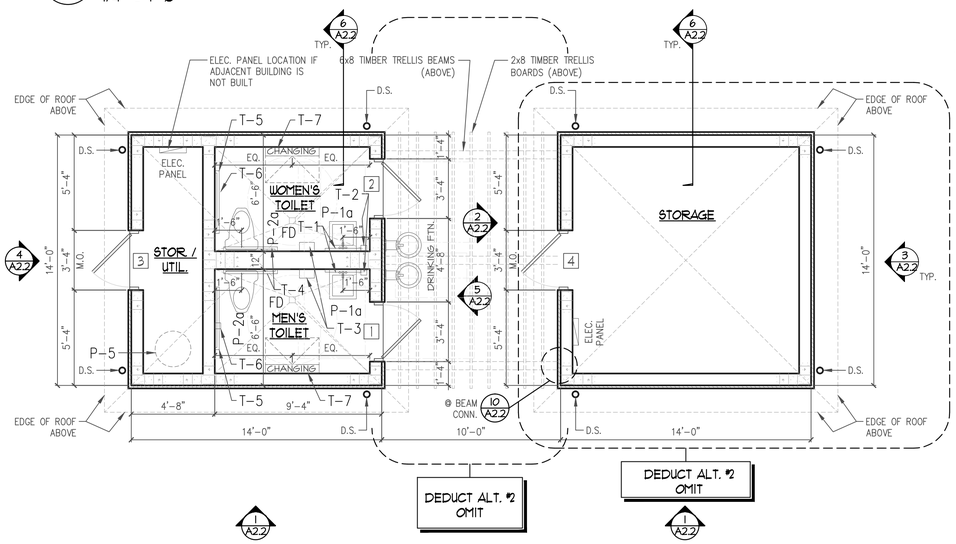
3 A1.2 REFLECTED CEILING PLAN

1/4" = 1'-Ø"



2 A1.2 ROOF PLAN

1/4" = 1'-Ø"



1 A1.2 FLOOR PLAN

1/4" = 1'-Ø"

DOOR SCHEDULE

No.	SIZE	SIZE	TYPE	FRAME	REMARKS
1	3'-0" x 7'-0"	MEN'S TOILET	H.M.	H.M.	
2	3'-0" x 7'-0"	WOMEN'S TOILET	H.M.	H.M.	
3	3'-0" x 7'-0"	STOR. / UTIL.	H.M.	H.M.	
4	3'-0" x 7'-0"	STORAGE	H.M.	H.M.	OMIT IN DEDUCT ALTERNATE #2

SYMBOLS

4 KEY NOTE
3 DOOR No.
C WINDOW No.
2 PARTITION TYPE
2 A6 SECTION CUT — DETAIL / SHEET
2 A6 ELEVATION

PARTITION TYPES

- EXTERIOR WALL: REINFORCED 8" C.M.U. WALL WITH APPLIED STONE VENEER, (PAINT INTERIOR), SEE WALL SECTION (1/A3.1)
- INTERIOR WALL: REINFORCED 8" C.M.U. WALL (PAINT INTERIOR), SEE DETAIL (3/A3.1)
- PIER: REINFORCED 16" SQUARE 8" C.M.U. PIER WITH APPLIED TAPERED STONE VENEER (2" TOTAL TAPER), SEE DETAIL (4/A3.1)
- INDICATES THE CODE REQUIRED TURN-A-ROUND SPACE AND CLEAR FLOOR SPACE FOR ACCESSIBLE FIXTURES AND DOORS.

CEILING LEGEND

- SURFACE MOUNTED SINGLE BULB 4' FLOURESCENT LIGHT FIXRURE
- WALL MOUNTED SECURITY LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- RECESSED EXTERIOR CAN LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- GYPSUM BOARD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES

TOILET FIXTURES

P-1a	WALL HUNG SINK (ACCESSIBLE)
P-2a	FLOOR MOUNTED FLUSH VALUE WATER CLOSET (ACCESSIBLE)
P-5	WATER HEATER ON WALL MOUNTED PLATFORM

TOILET ACCESSORIES

T-1	WALL MOUNTED FRAMED MIRROR (24" X 36")
T-2	WALL MOUNTED LIQUID SOAP DISPENSER (OWNER PROVIDED)
T-3	WALL MOUNTED HAND DRYER (OWNER PROVIDED)
T-4	WALL / PARTITION MOUNTED GRAB BAR (36")
T-5	WALL / PARTITION MOUNTED GRAB BAR (42")
T-6	WALL / PARTITION MOUNTED TOILET PAPER DISPENSER
T-7	WALL MOUNTED BABY CHANGING STATION

KACENA DESIGN

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Fax: (404) 419-8701

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	ISSUED FOR BID	1/4/2013	CK

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

SMALL RESTROOM / STORAGE BLDG: PLANS

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DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA — KEVIN D. KACENA — 12-18-12 — REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012
KHA PROJECT NO.:	019124002

SHEET NUMBER
A1.2

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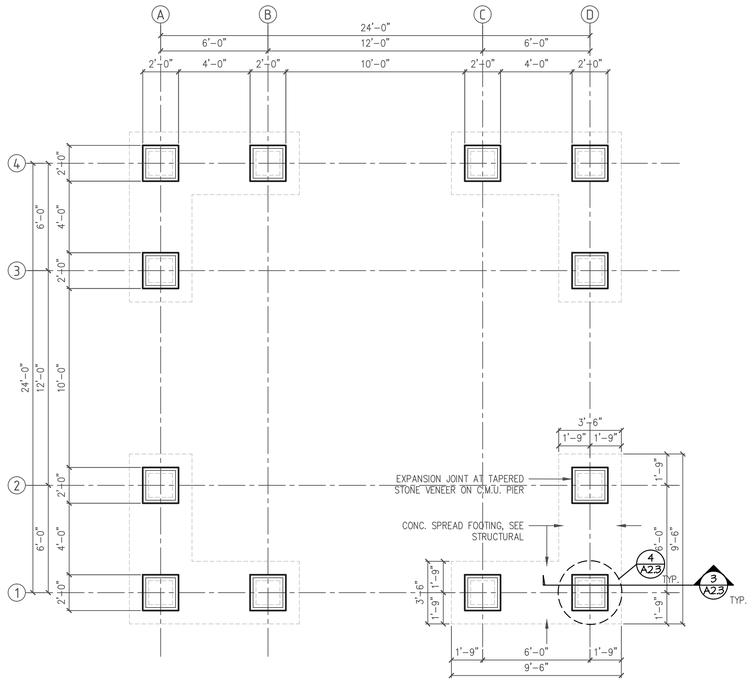
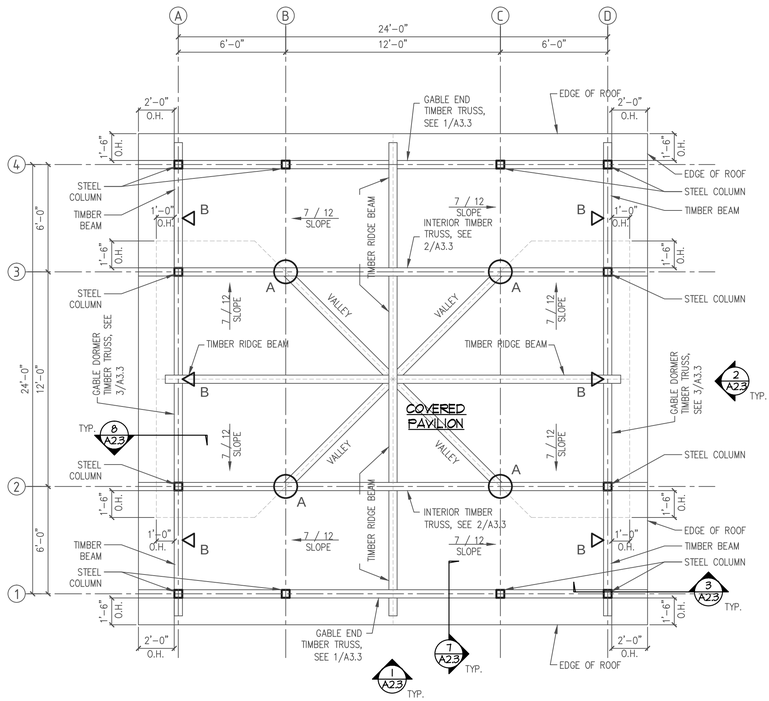
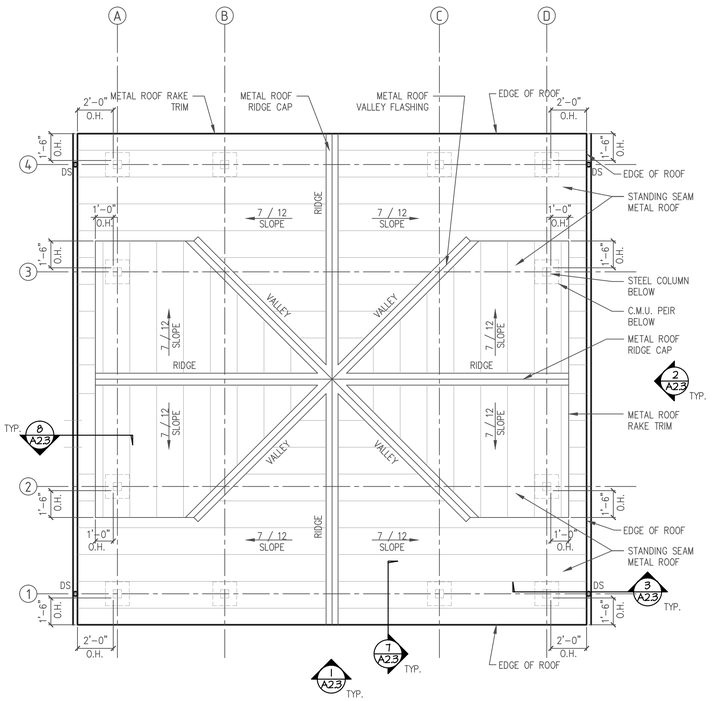


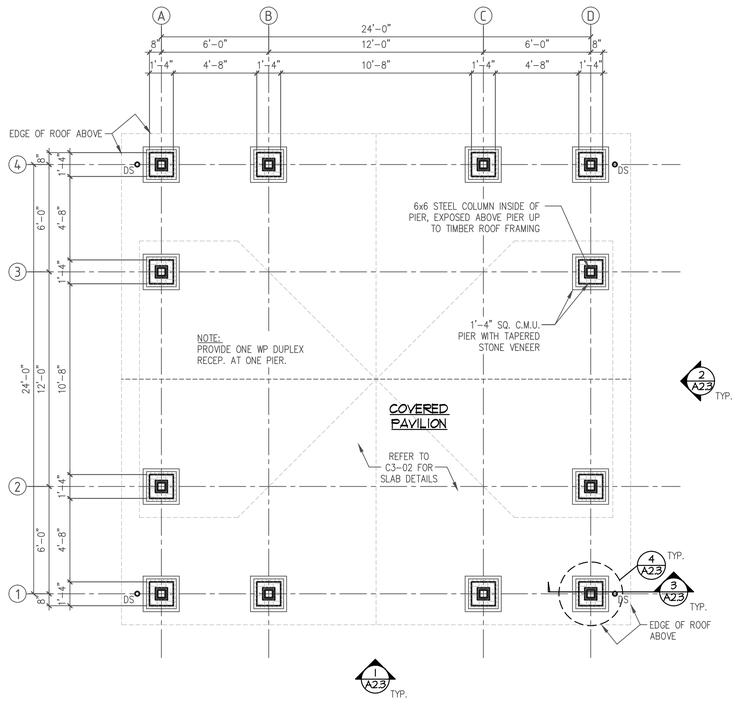
4 A1.3 TOWN PAVILION SLAB / FOUNDATION PLAN
1/4" = 1'-0"



3 A1.3 TOWN PAVILION REFLECTED CEILING PLAN
1/4" = 1'-0"

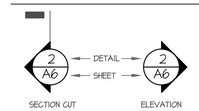


2 A1.3 TOWN PAVILION ROOF PLAN
1/4" = 1'-0"



1 A1.3 TOWN PAVILION FLOOR PLAN
1/4" = 1'-0"

SYMBOLS



PARTITION TYPES

PIER: 6x6 STEEL COLUMN WITH APPLIED BASE PIER. 16" SQUARE 4" C.M.U. PIER WITH APPLIED TAPERED STONE VENEER (2" TOTAL TAPER), SEE DETAIL (4/A2.3)

LIGHTING LEGEND

A PENDANT LIGHT

B FLOOD LIGHT

KACENA DESIGN

Kimley-Horn and Associates, Inc.
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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

TOWN PAVILION: PLANS

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA
REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

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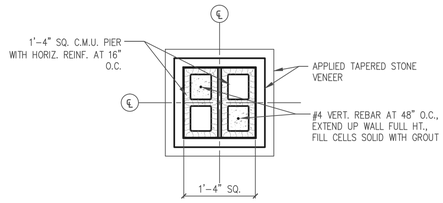
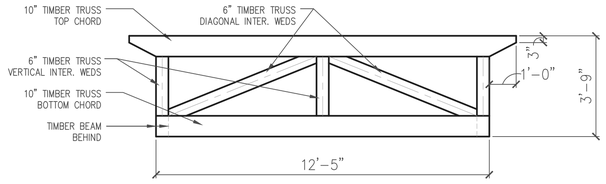
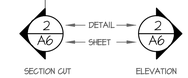


12 A1.4 TYPICAL PIER PLAN
3/4" = 1'-0"



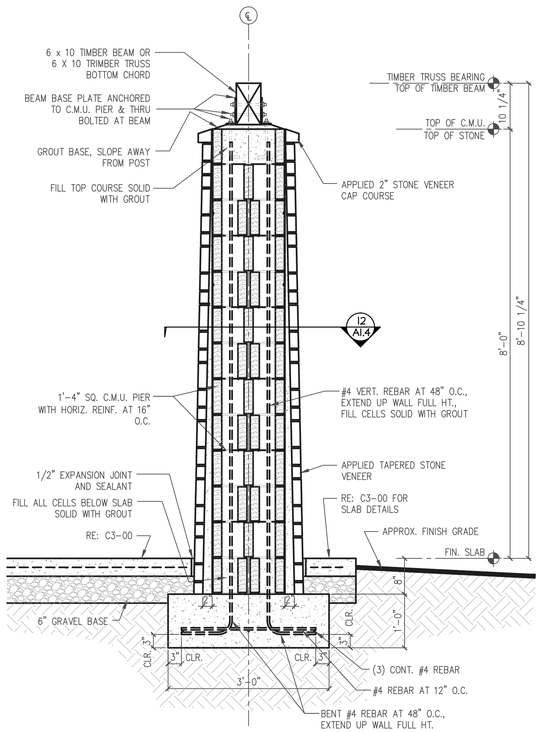
11 A1.4 TRUSS PROFILE
3/8" = 1'-0"

SYMBOLS

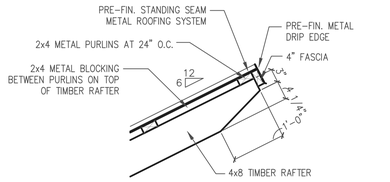


PARTITION TYPES

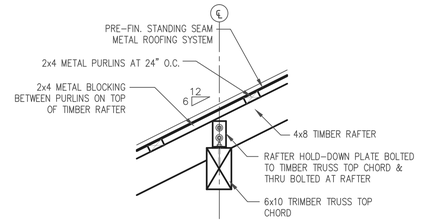
PIER: REINFORCED 16" SQUARE 8" C.M.U. PIER WITH APPLIED TAPERED STONE VENEER (2" TOTAL TAPER), SEE DETAIL (4/A3.1)



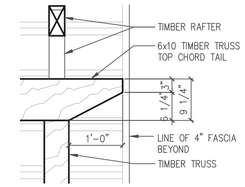
10 A1.4 TYPICAL WALL SECTION
3/4" = 1'-0"



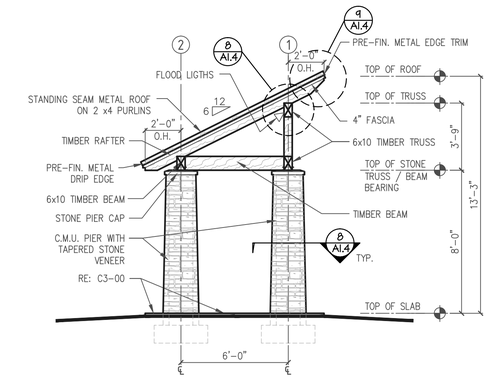
9 A1.4 TYPICAL FASCIA DETAIL
3/4" = 1'-0"



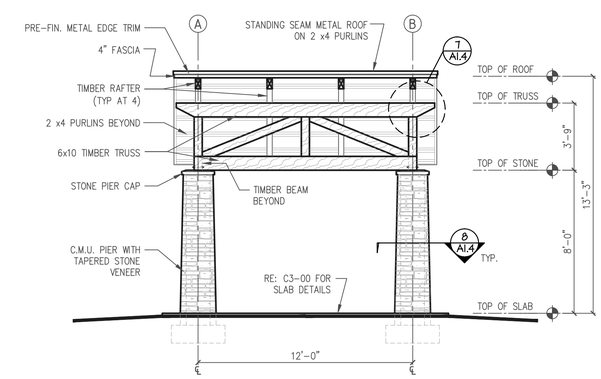
8 A1.4 RAFTER CONN. DETAIL
3/4" = 1'-0"



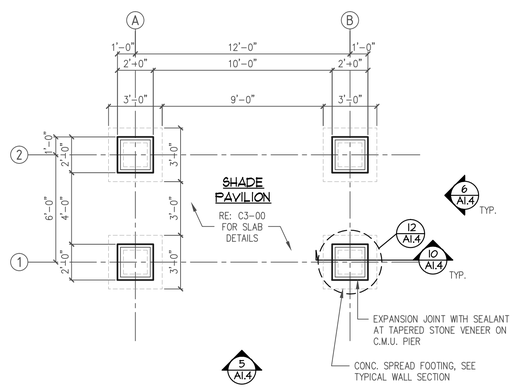
7 A1.4 TRUSS TAIL DETAIL
3/4" = 1'-0"



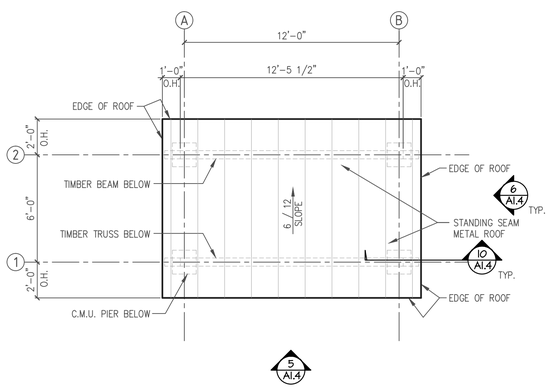
6 A1.4 SHADE PAVILION SIDE ELEVATION
1/4" = 1'-0"



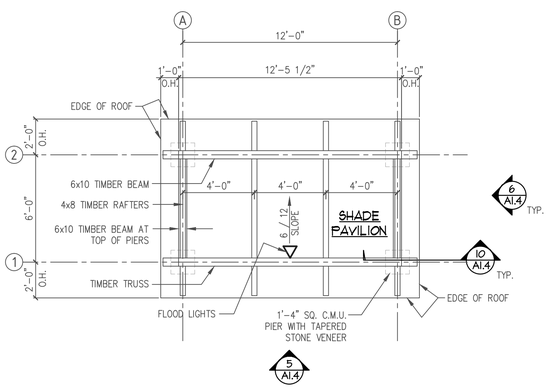
5 A1.4 SHADE PAVILION FRONT ELEVATION
1/4" = 1'-0"



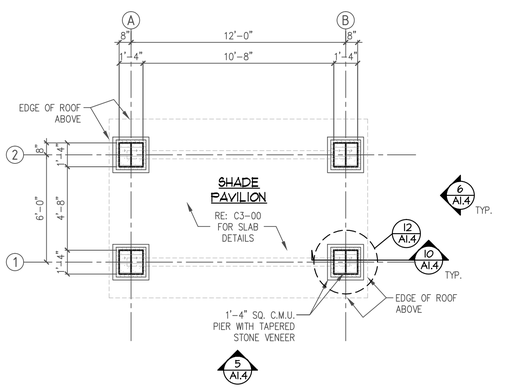
4 A1.4 SHADE PAVILION SLAB / FNDN. PLAN
1/4" = 1'-0"



3 A1.4 SHADE PAVILION ROOF PLAN
1/4" = 1'-0"



2 A1.4 SHADE PAVILION REFLECTED CEILING PLAN
1/4" = 1'-0"



1 A1.4 SHADE PAVILION FLOOR PLAN
1/4" = 1'-0"

KACENA DESIGN

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Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY
RENAISSANCE PARK
DUNWOODY, GA 30346

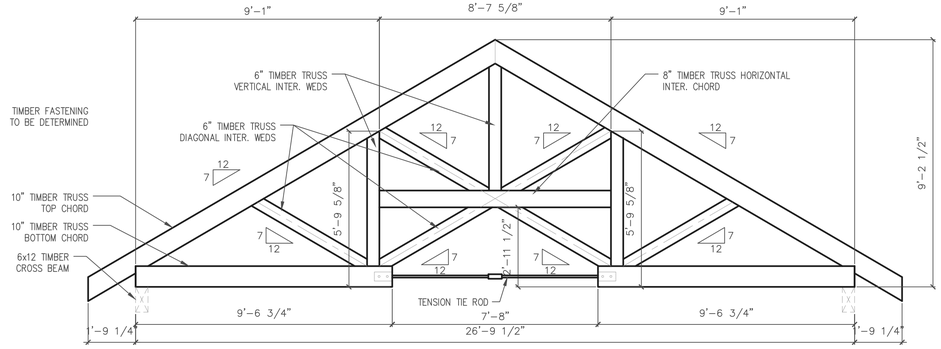
SHADE PAVILION:
PLANS, ELEVATIONS, SECTIONS, & DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA
KEVIN L. KACENA
No. 026990
REGISTERED
12-18-12
CERTIFICATE NO.
REGISTERED ARCHITECT

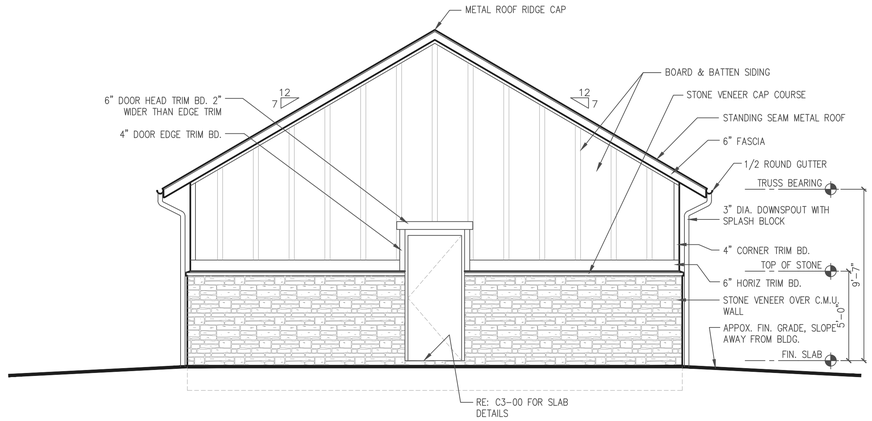
SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012
KHA PROJECT NO.:	019124002

SHEET NUMBER
A1.4



7 / A2.1 TIMBER TRUSS PROFILE

3/8" = 1'-0"

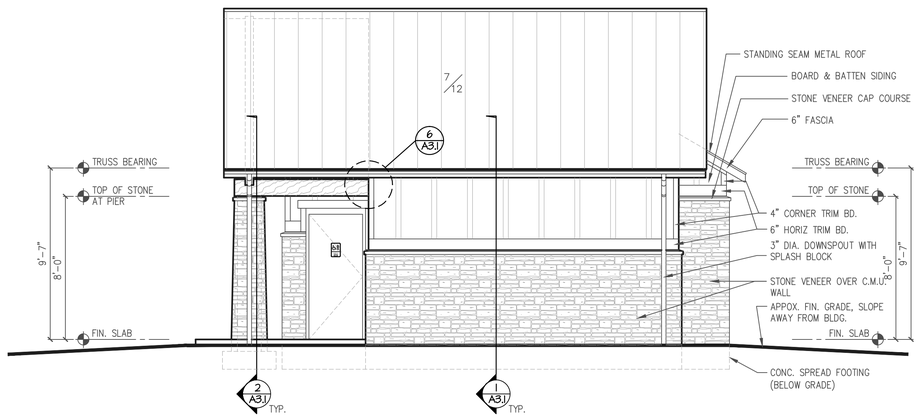


3 / A2.1 RESTROOM BUILDING REAR ELEVATION - DEDUCT ALT. #1

1/4" = 1'-0"

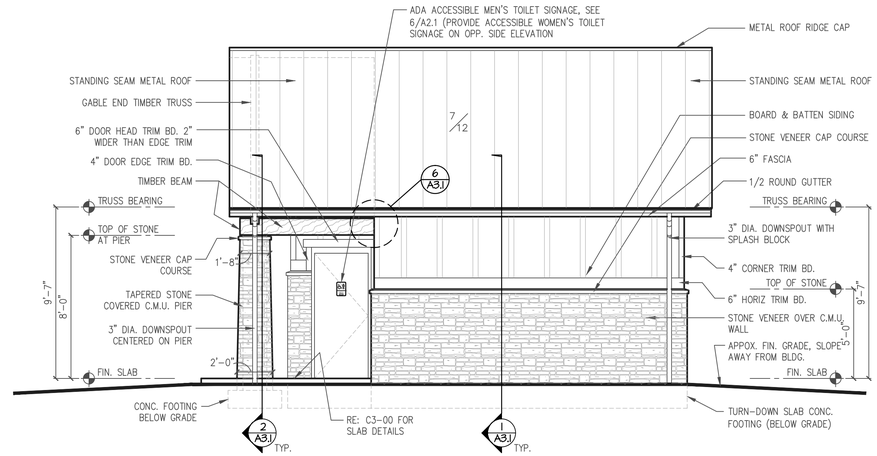
ELEVATION NOTES

1. ALL SIDING TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL. 3 1/2" BATTENS AT 24" O.C.
2. ALL FASCIA AND TRIM BOARDS TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL IN NOMINAL SIZES INDICATED.
3. ALL SOFFITS TO BE FIBER CEMENT PANELS, HARDIE PLANK OR EQUAL WITH CONT. 2" WIDE SOFFIT VENT.



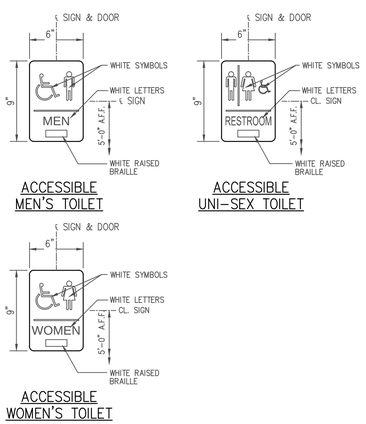
5 / A2.1 RESTROOM BUILDING SIDE ELEVATION

1/4" = 1'-0"



2 / A2.1 DEDUCT ALT. #1 - SIDE ELEVATION

1/4" = 1'-0"



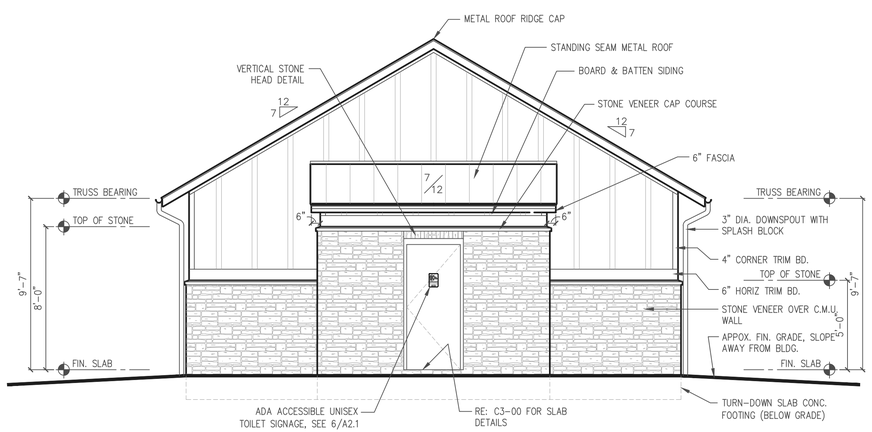
ACCESSIBLE MEN'S TOILET

ACCESSIBLE UNI-SEX TOILET

ACCESSIBLE WOMEN'S TOILET

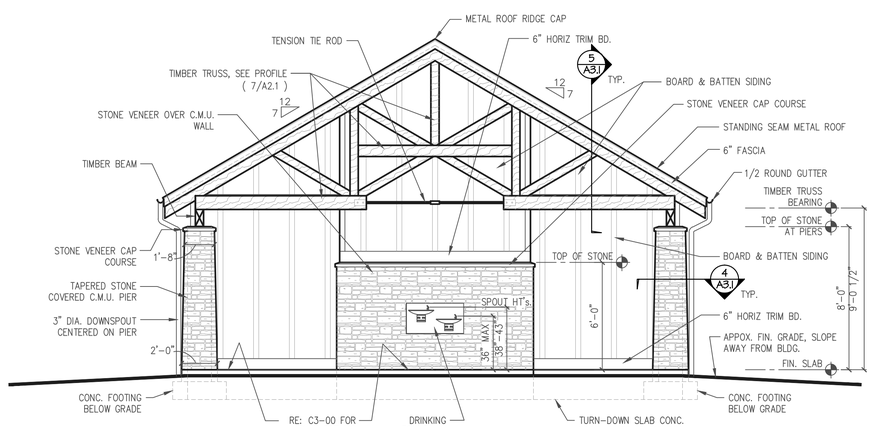
6 / A2.1 RESTROOM SIGNAGE DETAIL

1/4" = 1'-0"



4 / A2.1 RESTROOM BUILDING REAR ELEVATION

1/4" = 1'-0"



1 / A2.1 RESTROOM BUILDING FRONT ELEVATION

1/4" = 1'-0"

KACENA DESIGN

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Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

LARGE RESTROOM BUILDING: ELEVATIONS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA
John Christopher Kacena
RENAISSANCE
12-18-12
CERTIFICATE No. 017887
REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER
A2.1

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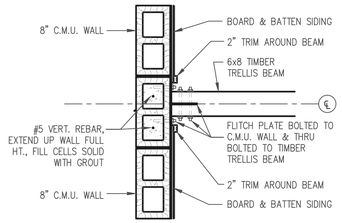
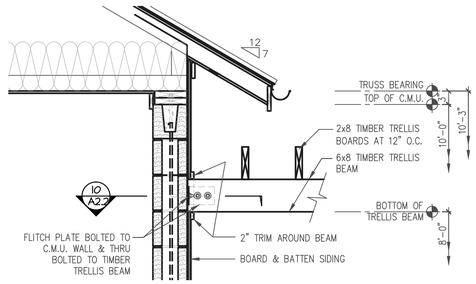
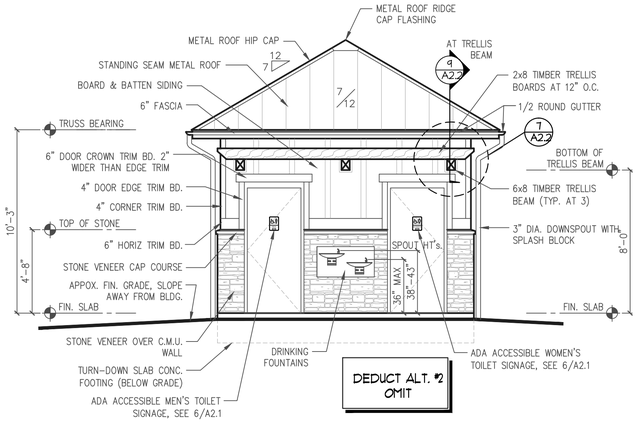


10 / A2.2 TIMBER BEAM CONN. DETAIL
3/4" = 1'-0"



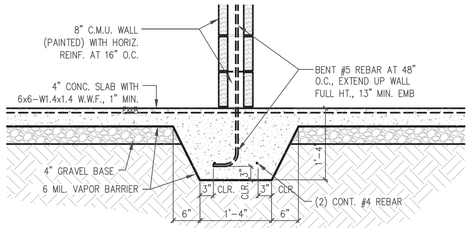
9 / A2.2 TRELLIS BEAM DETAIL
3/4" = 1'-0"



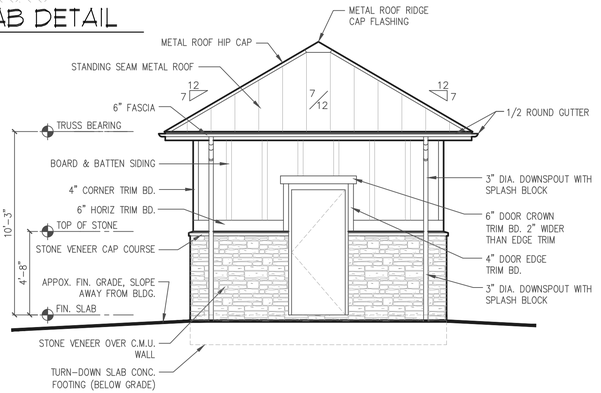
5 / A2.2 SMALL TOILET BLDG. CONNECTOR SIDE ELEV.
1/4" = 1'-0"

ELEVATION NOTES

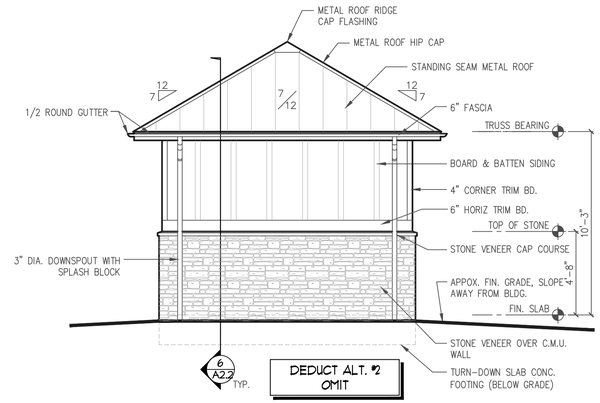
1. ALL SIDING TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL. 3 1/2" BATTENS AT 24" O.C.
2. ALL FASCIA AND TRIM BOARDS TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL IN NOMINAL SIZES INDICATED.
3. ALL SOFFITS TO BE FIBER CEMENT PANELS, HARDIE PLANK OR EQUAL WITH CONT. 2" WIDE SOFFIT VENT.
4. STORAGE BUILDING IS AN ADD OPTION.
5. TIMBER TRELLIS BETWEEN BUILDINGS IS AN ADD OPTION.



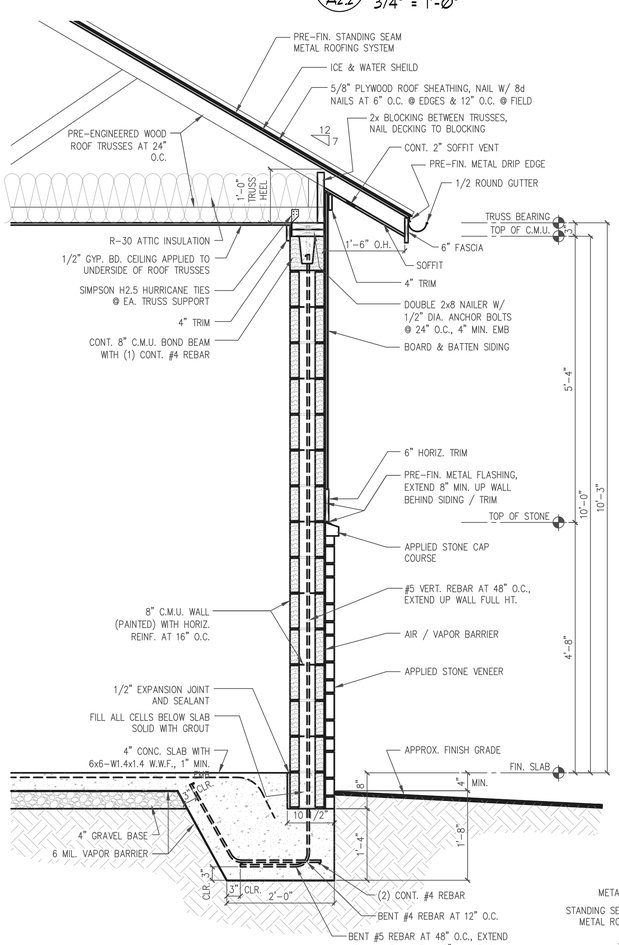
8 / A2.2 THICKENED SLAB DETAIL
3/4" = 1'-0"



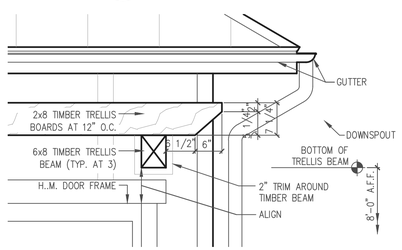
4 / A2.2 SMALL TOILET BUILDING SIDE ELEVATION
1/4" = 1'-0"



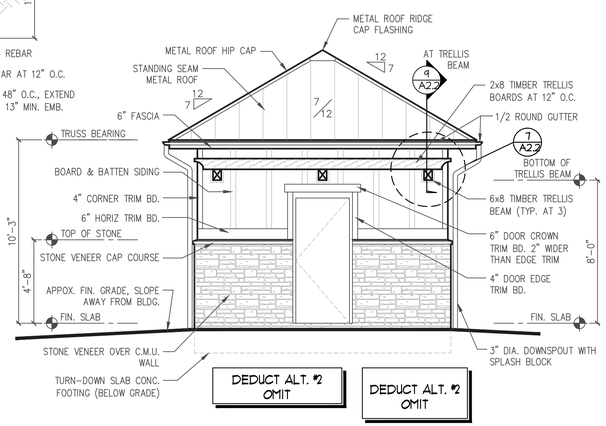
3 / A2.2 STORAGE BUILDING TYPICAL ELEVATION
1/4" = 1'-0"



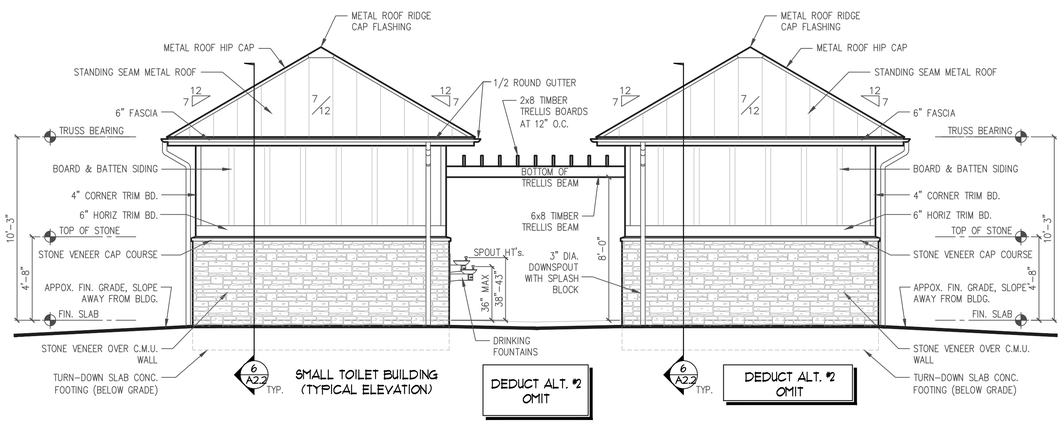
6 / A2.2 TYPICAL WALL SECTION
3/4" = 1'-0"



7 / A2.2 TRELLIS DETAIL
3/4" = 1'-0"



2 / A2.2 STORAGE BUILDING CONNECTOR SIDE ELEVATION
1/4" = 1'-0"



1 / A2.2 SMALL RESTROOM / STORAGE BUILDING FRONT ELEVATION
1/4" = 1'-0"

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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

SMALL RESTROOM / STORAGE BLDG:
ELEVATIONS, SECTIONS & DETAILS

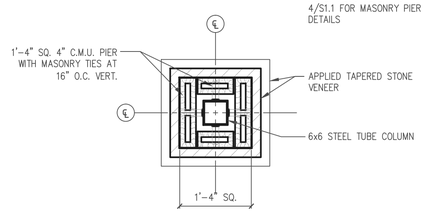
DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA
John Christopher Kacena
REGISTERED
CERTIFICATE No. 019862
12-18-12
REGISTERED ARCHITECT

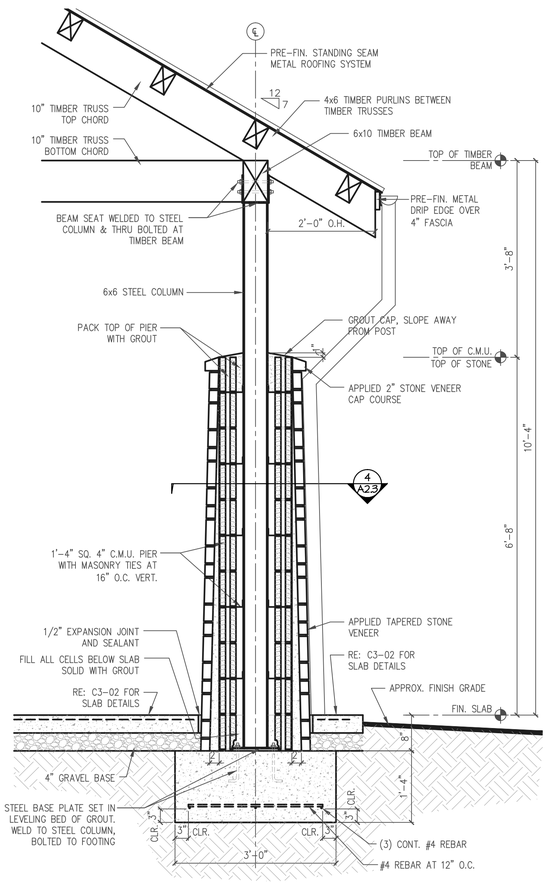
SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

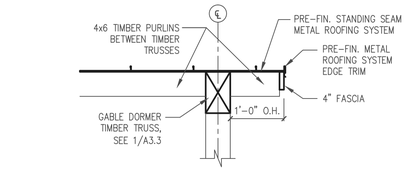
SHEET NUMBER
A2.2



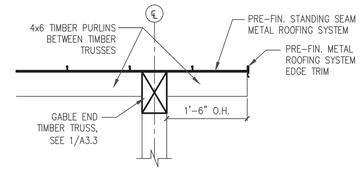
4 A2.3 TYPICAL PIER PLAN
3/4" = 1'-0"



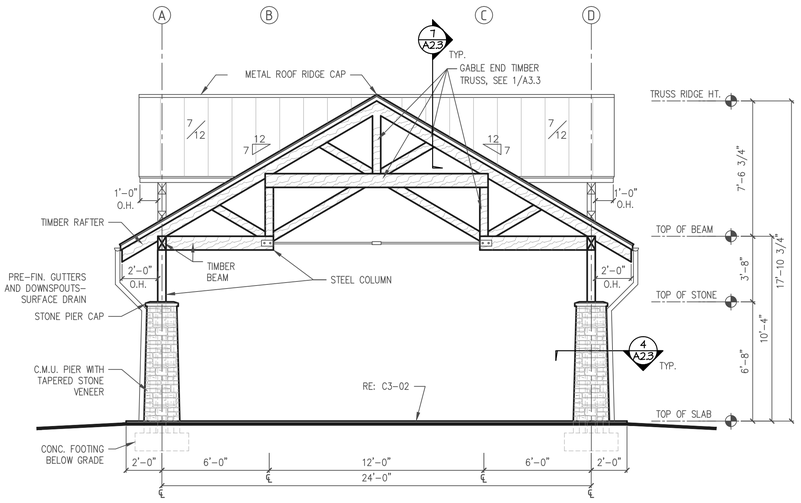
3 A2.3 TYP. COLUMN / PIER SECTION
3/4" = 1'-0"



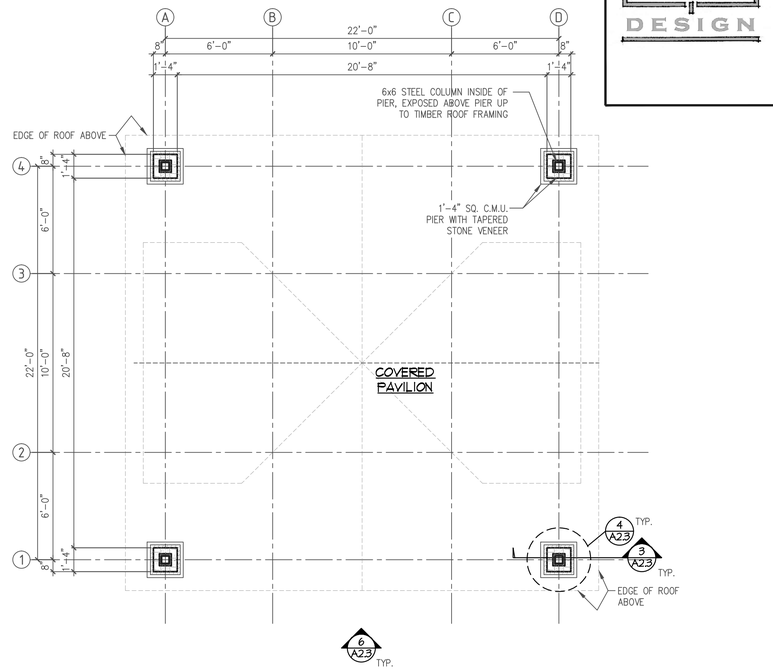
8 A2.3 DORMER RAKE DETAIL
3/4" = 1'-0"



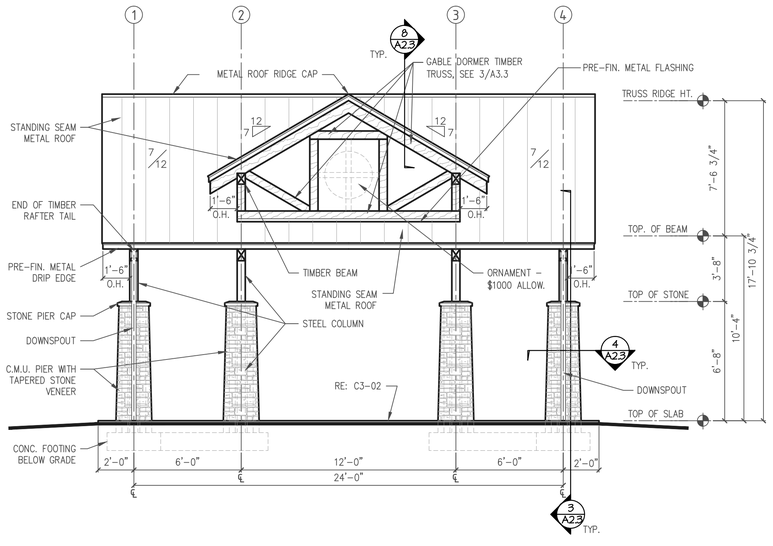
7 A2.3 GABLE RAKE DETAIL
3/4" = 1'-0"



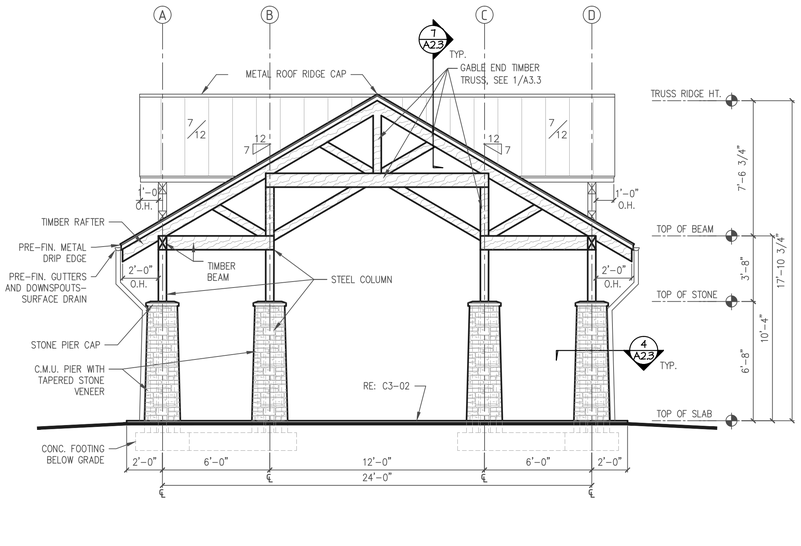
6 A2.3 DEDUCT ALT. #4 - TOWN PAVILION FRONT ELEVATION
1/4" = 1'-0"



5 A2.3 V.E. OPTION - TOWN PAVILION FLOOR PLAN
1/4" = 1'-0"



2 A2.3 TOWN PAVILION SIDE ELEVATION
1/4" = 1'-0"



1 A2.3 TOWN PAVILION FRONT ELEVATION
1/4" = 1'-0"

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KACENA DESIGN

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SUITE 601
ATLANTA, GEORGIA 30308-1121
Tel: (404) 419-8700
Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

TOWN PAVILION:
ELEVATIONS, SECTIONS, DETAILS, & DEDUCT ALT. #4 DETAILS

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA — CHRISTOPHER M. KACENA — 12.18.12 — REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER
A2.3

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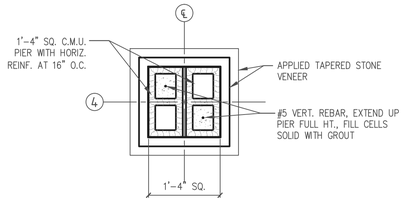
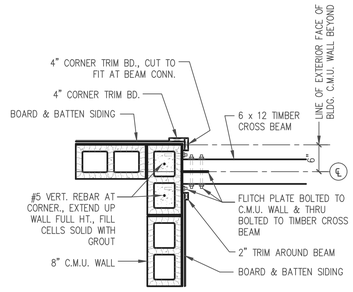


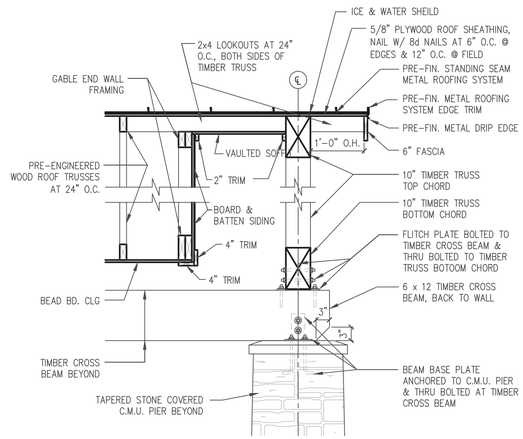
4 A3.1 TYPICAL PIER PLAN

3/4" = 1'-0"



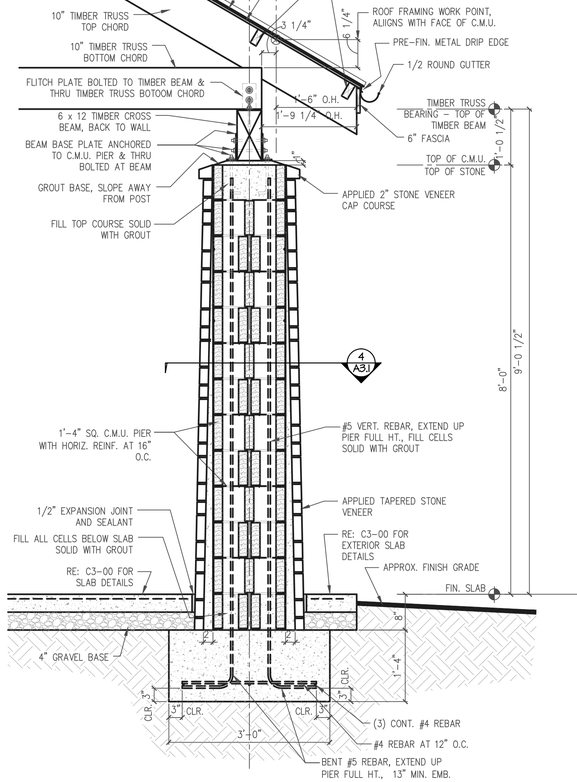
6 A3.1 TIMBER BEAM CONN DETAIL

3/4" = 1'-0"



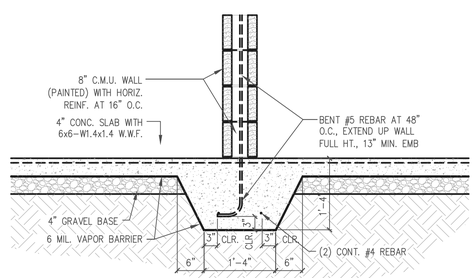
5 A3.1 PORCH CEILING DETAIL

3/4" = 1'-0"



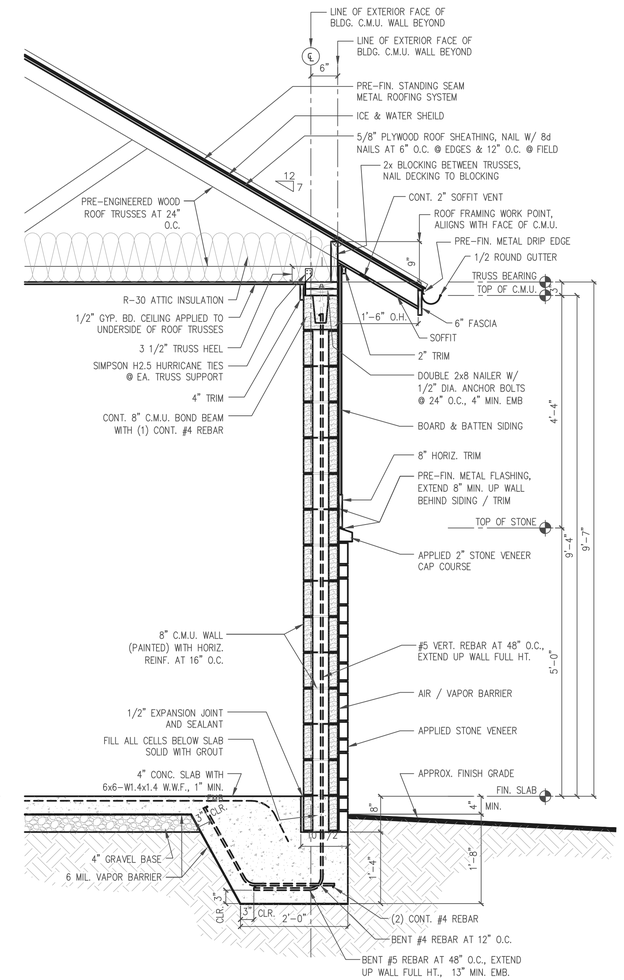
2 A3.1 TYPICAL PIER SECTION

3/4" = 1'-0"



3 A3.1 THICKENED SLAB DETAIL

3/4" = 1'-0"



1 A3.1 RESTROOM BUILDING TYPICAL WALL SECTION

3/4" = 1'-0"

KACENA DESIGN

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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY
RENAISSANCE PARK
DUNWOODY, GA 30346

LARGE RESTROOM BUILDING:
SECTIONS & DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA
John Christopher Kacena
RENAISSANCE PARK
CERTIFICATE No. 017
12-18-12
REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER
A3.1

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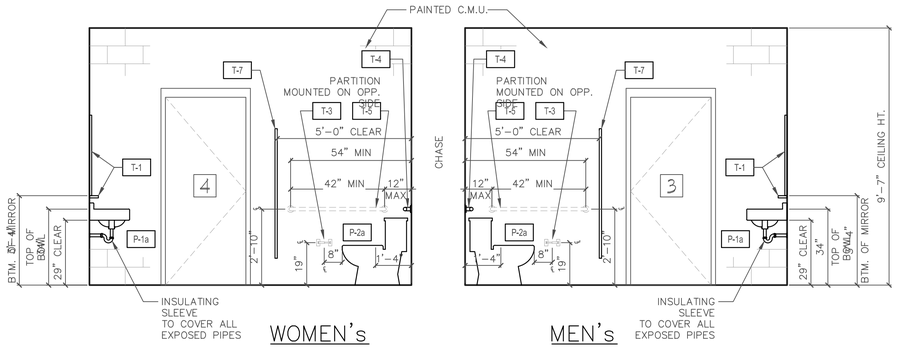
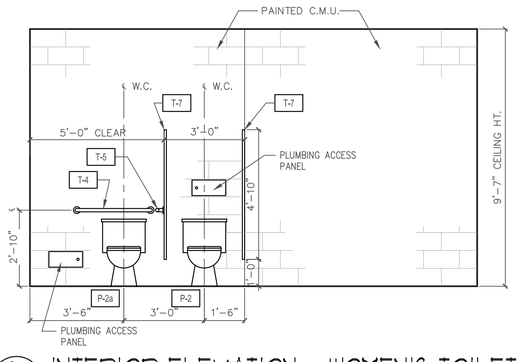


6 A3.2 INTERIOR ELEVATION - SIDE WALL

3/8" = 1'-0"



5 A3.2 INTERIOR ELEVATION - WOMEN'S TOILET

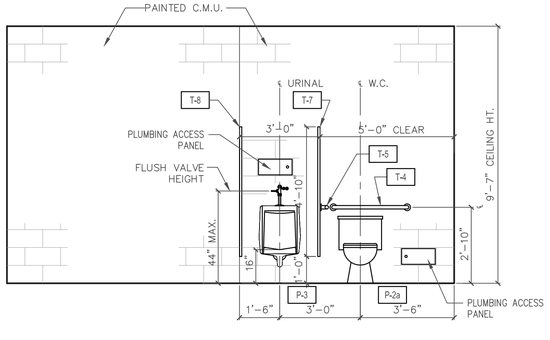
3/8" = 1'-0"

TOILET FIXTURES

P-1a	WALL HUNG SINK (ACCESSIBLE)
P-1b	WALL HUNG SINK (STANDARD)
P-2a	FLOOR MOUNTED FLUSH VALUE WATER CLOSET (ACCESSIBLE)
P-2b	FLOOR MOUNTED FLUSH VALUE WATER CLOSET (STANDARD)
P-3	WALL HUNG URINAL (ACCESSIBLE)
P-4	JANITOR'S MOP SINK
P-5	WATER HEATER ON WALL MOUNTED PLATFORM

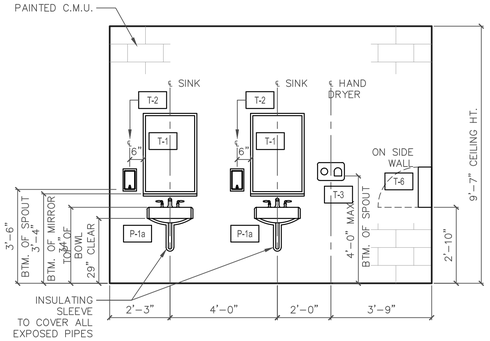
TOILET ACCESSORIES

T-1	WALL MOUNTED FRAMED MIRROR (24" X 36")
T-2	WALL MOUNTED LIQUID SOAP DISPENSER (OWNER PROVIDED)
T-3	WALL MOUNTED HAND DRYER (OWNER PROVIDED)
T-4	WALL / PARTITION MOUNTED GRAB BAR (36")
T-5	WALL / PARTITION MOUNTED GRAB BAR (42")
T-6	WALL / PARTITION MOUNTED TOILET PAPER DISPENSER
T-7	WALL / FLOOR MOUNTED URINAL TOILET PARTITON
T-8	WALL / FLOOR MOUNTED URINAL PARTITION
T-9	WALL MOUNTED BABY CHANGING STATION



4 A3.2 INTERIOR ELEVATION - MEN'S TOILET

3/8" = 1'-0"

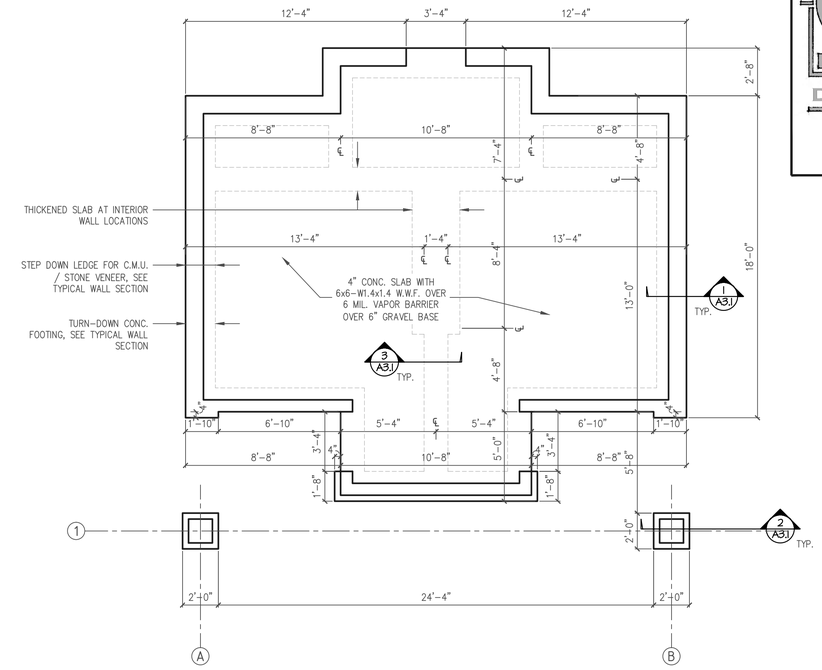


3 A3.2 INTERIOR ELEVATION - TYP. SINK WALL

3/8" = 1'-0"

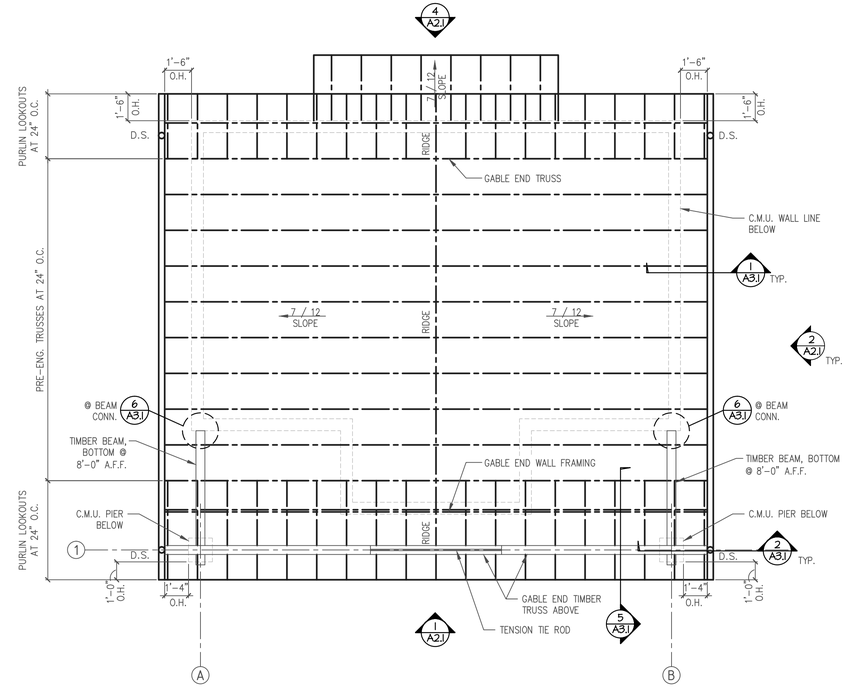
SYMBOLS

4 KEY NOTE — C WINDOW No. — 3 DOOR No. — 2 PARTITION TYPE — 2/A6 SECTION CUT (DETAIL / SHEET) — 2/A6 ELEVATION



2 A3.2 RESTROOM BUILDING SLAB PLAN

1/4" = 1'-0"



1 A3.2 RESTROOM BUILDING ROOF FRAMING PLAN

1/4" = 1'-0"

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	ISSUED FOR BID	1/4/2013		

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

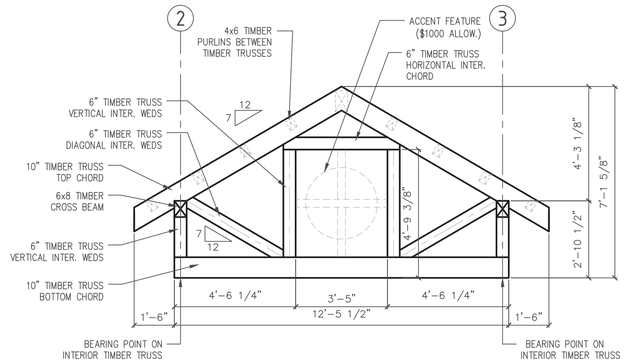
LARGE RESTROOM BUILDING:
FOUNDATION PLAN, ROOF FRAMING PLAN, & INTERIOR ELEVATIONS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA — Kelly Christopher Kacena — REGISTERED ARCHITECT — CERTIFICATE NO. 026798 — 12.18.12

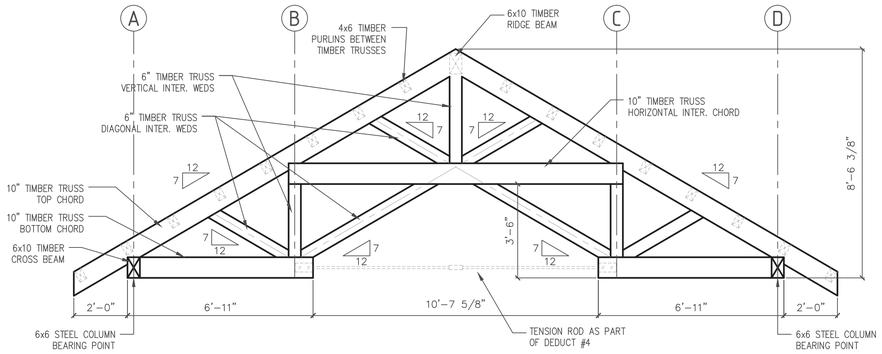
SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012
KHA PROJECT NO.:	019124002

SHEET NUMBER
A3.2



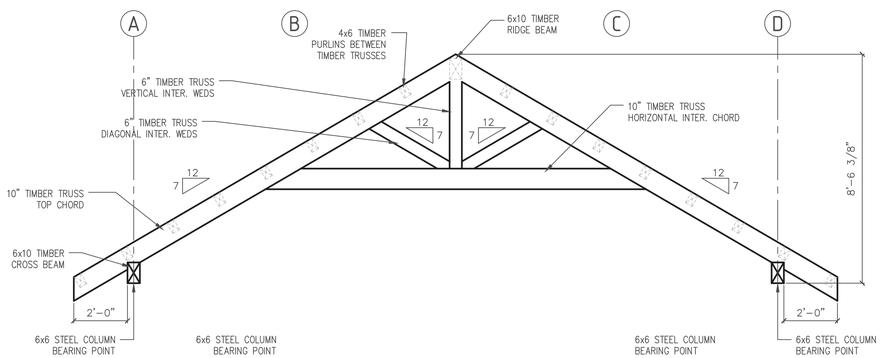
3 / A3.3 TRUSS PROFILE - GABLE DORMER TIMBER TRUSS

3/8" = 1'-0"



2 / A3.3 TRUSS PROFILE - GABLE END TIMBER TRUSS

3/8" = 1'-0"



1 / A3.3 TRUSS PROFILE - INTEROR TIMBER TRUSS

3/8" = 1'-0"

KACENA DESIGN

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No.	REVISIONS	DATE	BY
	ISSUED FOR BID	1/4/2013	CK

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

TOWN PAVILION: TIMBER TRUSS PROFILES

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

STATE OF GEORGIA
Jason Christopher Kacena
RENAISSANCE
12.18.12
CERTIFICATE No. 07180
REGISTERED ARCHITECT

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER
A3.3

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GENERAL NOTES:

DESIGN CRITERA:

1. BUILDING CODE – INTERNATIONAL BUILDING CODE 2006 WITH GEORGIA AMENDMENTS.

2. WIND LOADS:
   - A. BASIC WIND SPEED..... 90 MPH
   - B. IMPORTANCE FACTOR (Iw)..... 1.00
   - C. EXPOSURE CATEGORY ..... B
   - D. STRUCTURE TYPE..... OPEN STRUCTURE
   - E. BASE WIND PRESSURE, qh..... 11.0 PSF

3. EARTHQUAKE LOADS:
   - A. OCCUPANCY CATEGORY..... II
   - B. SDS =..... 0.27
   - C. SD1 =..... 0.14
   - D. SITE CLASS..... D
   - E. SEISMIC DESIGN CATEGORY..... B
   - F. IMPORTANCE FACTOR..... 1.00
   - G. BASIC SEISMIC FORCE RESISTING SYSTEM =..... CANTILEVER COLUMN–TIMBER FRAME
   - H. RESPONSE MODIFICATION COEFFICIENT R =..... 1.5
   - I. SEISMIC RESPONSE COEFFICIENT.....0.18
   - J. EQUIVALENT LATERAL FORCE PROCEDURE..... ASCE/SEI (SECTION 12.8)
   - K. DESIGN BASE SHEAR =..... 3.00 Kips TOTAL FOR 12 COLUMNS

MISCELLANEOUS:

1. STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PERTINENT ASPECTS OF ALL DISCIPLINES INTO THEIR SHOP DRAWINGS AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OF OMISSIONS.

2. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER OR MODIFICATION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING DURING FINAL OCCUPANCY.

5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL THE TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHONDS AND/OR SEQUENCES.

6. DO NOT SCALE THESE DRAWINGS: USE DIMENSIONS. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS. SEE ARCHITECTURAL DRAWINGS AND FIELD VERIFY.

7. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

8. THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OR RECORD. REVIEW OF SHOP DRAWINGS. PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN THE WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

9. WHERE A SECTION/DETAIL IS CUT ON THE PLAN, IT IS ASSUMED/UNDERSTOOD TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

10. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECTS'S OR ENGINEER'S PRESENCE AT THE JOB SITE OR REVIEW OF WORK DOES NOT IMPLY CONFIRMATION OF THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLIANCE WITH OSHA REGULATIONS.

11. CONSULT ARCHITECTURAL DRAWINGS FOR LOCATION, SIZES AND EXTENT OF CHASES, INSERTS, RECESSES, RIDGES, FINISHES, DEPRESSIONS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.

12. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.

13. STRUCTURAL CONTRACT DOCUMENTS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.

14. REFERENCE TO STANDARD SPECIFICATIONS OR ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AND PUBLISHED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ORDER TO COMPLY WITH THE CONTRACT DOCUMENTS.

FOUNDATIONS:

1. SPREAD FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 2500 PSF UNDER FULL SERVIE LIVE AND DEAD LOAD.

2. FOOTINGS MAY BE CAST INTO AN EARTH–FORMED TRENCH IF SOIL CONDITIONS PERMIT.

3. EXCAVATION FOR FOOTING SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.

4. IN AREA OF THE BUILDING, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE SOIL THAT IS PRESENT AT THIS SITE APPROVED BY SOILS ENGINEER. ROCKS GREATER THAN 6 IN. SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 12 INCHES IN DEPTH AND SHALL BE COMPACTED TO AT LEAST 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED COMPACTION TEST (ASTM D1557). ADEQUATE FIELD DENSITY AND MOISTURE CONTENT TESTS SHALL BE PERFORMED TO INSURE COMPLIANCE. ANY FILL WITHIIN 10'–0" OF THE PAVILLION AREA SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD PROCTOR.THE UPPER 12" OF FILL BENEATH STRUCTURAL AREAS SHOULD BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR.

5. FOOTING CONCRETE SHALL BE CAST ON THE SAME DAY THE EXCAVATION IS APPROVED. IF THE BEARING SURFACE IS ALLOTED TO BECOME DISTURBED IN ANY WAY, IT SHALL BE REWORKED TO THE SATISFACTION OF THE TESTING ENGINEER PRIOR TO CASTING OF THE CONCRETE.

6. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

7. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'–6" BELOW FINAL GRADE FOR FROST PROTECTION.

8. WHEN UNSATISFACTORY OF UNCONTROLLED FILL IS ENCOUNTERED, REMOVAL AND REPLACEMENT WILL BE PAID ON THE BASIS OF UNIT PRICES SET FORTH IN THE CONTRACT.

9. ALL BEARING STRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.

10. THERE SHALL BE NO HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS IN ANY FOOTING WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER.

11. FOUNDATION WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS.

15. THE CONTRACTOR IS TO ENGAGE THE SERVICES OF A REGISTERED QUALIFIED GEOTECHNICAL ENGINEER. IT IS THE RESPONSABILITY OF THE CONTRACTOR TO ORDER INSPECTIONS BY THE GEOTECHNICAL ENGINEER AND TO SEND RESULTS TO THE ARCHITECT/ENGINEER.

CONCRETE:

1. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH AND DENSITY IN ACCORDANCE WITH THE FOLLOWING:

	STRENTH PSI	DENSITY PCF
FOOTINGS, SLABS ON GRADE.....	3000	145

2. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STREGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS BY EITHER THE TRAIL BATCH OR FIELD EXPERIENCE METHOD AND SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE PROJECT STATE.

3. REINFORCING SHALL CONFORM TO ASTM A615, GR60 UNLESS NOTED OTHERWISE.

4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60.

5. WELDED WIRE FABRIC SHALL BE PLACED 1" BELOW T/SLAB ON GRADE U.N.O. LAP FABRIC 6" ON SIDES AND ENDS. WELDED WIRE SHALL BE PLACED AT MID–DEPTH OF SLAB (ABOVE FLUTES) IN METAL PAN FILL.

6. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL (LATEST EDITION) (SP–66).

7. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE.

8. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN ABOVE–GRADE CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULKHEADS. WHEN A BEAM INTERSECTS A GIRDER AT THIS POINT, THE JOINTS OF THE GIRDERS SHALL BE OFFSET A DISTANCE EQUAL TO TWICE THE WIDTH OF THE BEAM. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. ADDITIONAL REINFORCING AT CONSTRUCTINO JOINTS SHALL BE SPECIFIED BY THE ENGINEER OF RECORD.

9. ALL "CONTINUOUS" REINFORCEMENT SHALL HAVE A MINIMUM LAP OF "B" TYPE, (ACI 318–05, SECTION 12.15.1) AT SPLICES UNLESS NOTED OTHERWISE.

10. HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS AT CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DETAILS.

11. PROVIDE STANDARD (IF GALVANIZED, SPELL OUT AREAS) BAR CHAIRS WITH PROTECTIVE TIPS AND SPACERS AT 5'–0" CENTERS FOR ALL SLABS AND BEAMS ABOVE GRADE. PROVIDE 3" X 6" X 20 GAGE SHEET METAL BAR CHAIRS AT 4'–0" MAXIMUM CENTERS EACH WAY FOR ALL TOP REINFORCING FOR SLABS ON GRADE.

12. SUBMIT REINFORCING PLACEMENT AND DETAIL (SHOP) DRAWINGS FOR REVIEW, NO REINFORCING BARS SHALL BE INSTALLED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND RETURNED.

13. PRODUCTS AND MATERIALS:
   - A. TYPE 1 PORTLAND CEMENT SHALL CONFORM TO ASTM–C150.
   - B. AGGREGATES SHALL CONFORM TO ASTM C–33. MAX. AGGREGATE SIZE SHALL NOT EXCEED 3/4" FOR FOUNDATIONS REINFORCING BARS SHALL CONFORM TO ASTM A–615 (GRADE 60).
   - C. FORMING SHALL BE OF WOOD, STEEL, OR FIBERGLASS OF SATISFACTORY QUALITY AND CONDITION.
   - D. NO ADMIXTURES SHALL BE ADDED TO THE CONCRETE UNLESS APPROVED BY THE ENGINEER.
   - E. NON–SHRINK GROUT SHALL BE READY TO USE NON–METALLIC AGGREGATE AND DEVELOP A 7–DAY COMPRESSIVE STRENGTH OF 5000 PSI.

14. ALL REINFORCING SHALL BE SUPPORTED IN FORMS SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" (2001). MAX

15. MINIMUM CONCRETE COVER (UNLESS NOTED OTHERWISE) SHALL BE:

A. #11 BARS AND SMALLER.....	3/4 INCHES
B. UNFORMED SURFACE IN CONTACT WITH THE GROUND.....	3 INCHES
EXTERIOR BASEMENT WALLS.....	2 INCHES
INTERIOR BASEMENT WALLS.....	3/4 INCHES
C. FORMED SURFACES EXPOSED TO EARTH OR WEATHER	
#6 BARS AND LARGER.....	2 INCHES
#5 BARS AND SMALLER.....	1 1/2 INCHES
D. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER	
BEAMS GIRDERS AND COLUMNS.	1 1/2 INCHES
SLABS, WALLS, AND JOISTS.....	3/4 INCHES

16. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

BAR SIZE	TENSION SPLICES (INCHES) B	COMPRESSION SPLICES (INCHES)
3	28	12
4	37	15
5	47	19
6	56	23
7	81	25

17. SCHEDULED OR DETAILED REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED WITHOUT ENGINEER APPROVAL. WHERE WELDING IS APPROVED IT SHALL CONFORM TO AWS D1.4 STRUCTURAL WELDING CODE – REINFORCING STEEL.

18. CORNER BARS SHALL BE OF EQUAL SIZE AND SPACING AS THE MAIN REINFORCING AND LAP SPLICES TO 44 BAR DIAMETERS MINIMUM.

19. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC. BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 4" OF CONCRETE.

20. CONCRETE WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS, GENERAL NOTES, QUALITY ASSURANCE.

21. WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING U.N.O.

22. PROVIDE A MININUM OF OF 3" COVER FOR ANCHOR BOLTS AND LOCATE HORIZONTAL REINFORCEMENT TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT, U.N.O.

23. WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE OR PRECAST CONCRETE ELEMENTS USING EPOXY ADHESIVES, USE ANCHORAGE SYSTEM EQUAL TO "HILTI" HIT DOWELING (HY–150). FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. ALTERNATED ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEERS PRIOR APPROVAL.

24. PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.

25. ALL CONCRETE DESIGN, CONSTRUCTION, PLACEMENT, COLD WEATHER AND HOT WEATHER PRECAUTIONS, MATERIAL AND PROPORTIONING REQUIREMENTS, REBAR COVER AND DETAILING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318–05 AND AC1 301 (LATEST EDITION).

STRUCTURAL STEEL:

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE MANUAL OF STEEL CONSTRUCTION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC..

2. FABRICATOR SHALL BE AISC QUALITY CERTIFIED FOR THE CATEGORY STD (STANDARD FOR STEEL BUILDING STRUCTURES)

3. ALL STRUCTURAL STEEL SHALL BE IN CONFORMANCE WITH THE FOLLOWING STANDARDS:
   - B. ALL PLATES AND BARS SHALL BE IN CONFORMANCE WITH ASTM A 36, UNO.
   - C. ALL SQUARE, RECTANGULAR AND ROUND TUBING SHALL BE IN CONFORMANCE WITH ASTM A 500, GRADE B.
   - D. THREADED RODS SHALL COMPLY WITH ASTM A 36.
   - E. ANCHOR RODS SHALL COMPLY WITH ASTM F 1554 GRADE 36.

4. HEADED ANCHOR BOLTS SHALL CONFORM TO ASTM F 1554 GRADE 36 OR A36 UNLESS NOTED OTHERWISE. BOLT HEADS AND NUTS SHALL BE HEAVY HEX. THREADED RODS WITH TACK WELDED NUTS MAY BE USED IN LIEU OF BOLTS. ANCHOR BOLTS SECURING STRUCTURAL STEEL SHALL BE PROVIDED WITH A HARDENED STEEL WASHER IN ACCORDANCE WITH ASTM F 436 – 93. ALL OTHER ANCHOR BOLTS SHALL BE EMBEDDED TO 3" ABOVE THE BOTTOM OF THE LOWEST FOOTING UNO.

5. WELDED CONNECTIONS SHALL BE MADE WITH E70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1, STRUCTURAL WELDING CODE BY THE AMERICAN WELDING SOCIETY, AND SHALL BE PERFORMED BY CERTIFIED WELDERS. WELDER CERTIFICATION SHALL BE AVAILABLE ON SITE FOR INSPECTION.

6. WELDING SHALL BE EXAMINED AS FOLLOWS:
   - A. ALL WELDS SHALL BE VISUALLY EXAMINED.
   - B. 15% OF ALL WELDS SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING METHODS:
   - C. FULL AND PARTIAL PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY IN ACCORDANCE WITH ASTM E 164.
   - D. ALL OTHER WELDS SHALL BE TESTED BY THE LIQUID PENETRANT METHOD IN ACCORDANCE WITH ASTM E 165 OR THE MAGNETIC PARTICLE METHOD IN ACCORDANCE WITH ASTM E 709.

7. CONNECTIONS TO HOLLOW STRUCTURAL SECTION COLUMNS SHALL BE ACCOMPLISHED WITH WT'S OR THRU PLATES UNLESS APPROVED OTHERWISE.

8. SHEAR CONNECTORS
   - A. PROVIDE SOLID FLUXED SHEAR CONNECTOR STUDS, SIZE AS INDICATED ON THE DRAWINGS, AUTOMATICALLY END WELDED TO THE MEMBER INDICATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER (NELSON DIVISION OF TRW OR APPROVED EQUAL). SHEAR–STUD CONNECTORS SHALL COMPLY WITH ASTM A 108.
   - B. WHERE THE THICKNESS OF THE BEAM FLANGE IS LESS THAN 0.3", STUDS SHALL BE LOCATED DIRECTLY OVER THE WEB.
   - C. WELDING OF HEADED STUD CONCRETE ANCHORS AND DBA'S SHALL BE INSPECTED IN ACCORDANCE WITH AWS D1.1. TEST A MINIMUM OF 15% OF ALL STUDS. RETEST ALL STUDS AND DBA'S ON ANY MEMBER WHOSE STUDS FAILED INITIAL TESTS.

9. UNLESS NOTED OTHERWISE, SHOP CLEAN THE SURFACE OF ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF SSPC–SP2 AND SHOP PAINT WITH A MINIMUM OF 1.0 MILS OF THE FABRICATORS STANDARD RUST INHIBITIVE PRIMER. TOUCH–UP ALL STRUCTURAL STEEL AFTER ERECTION WITH MATCHING PRIMER.

10. FOR STEEL PERMANENTLY EXPOSED TO THE ELEMENTS:
   - A. PREPARE SURFACE AS FOLLOWS:
     - NEW STEEL – SSPC–SP 6 COMMERCIAL BLAST CLEANING
     - WELDS – REMOVE SLAG, WIRE BRUSH AND SSPC–SP 1 SOLVENT CLEANING

11. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT–DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.

12. PROTECTIVE COATINGS DAMAGED DURING THE TRANSPORTATION, ERECTION AND FIELD WELDING PROCESSES SHALL BE REPAIRED IN THE FIELD TO MATCH THE SHOP APPLIED COATING.

13. GROUT FOR BASE PLATES (WHERE SHOWN OR REQUIRED) SHALL BE NON–SHRINK, NON–METALLIC FACTORY PREMIXED GROUT HAVING A COMPRESSIVE STRENGTH OF 6800PSI AT 28 DAYS. GROUT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

REINFORCED MASONRY:

1. FINISHED MASONRY CONSTRUCTION SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH ($f'm$) OF 1500 psi.

2. CONCRETE MASONRY SHALL BE SEMI–LIGHTWEIGHT UNITS CONFORMING TO ASTM C90, TYPE N. MINIMUM COMPRESSIVE STRENGTH OF 1575 psi BASED ON NET AREA PER ASTM C140.

3. ALL MORTARS SHALL BE TYPE S CONFORMING TO ASTM C270. MASONRY CEMENT SHALL NOT BE USED. ADMIXTURES SHALL NOT BE ADDED FOR ANY REASON UNLESS APPROVED BY THE ENGINEER. MORTAR SHALL NOT BE USED TO FILL BLOCK CELLS. ALL GROUT FOR BOND BEAMS AND VERTICAL BLOCK WALL CORES SHALL BE STRUCTURAL QUALITY WITH 3/8" MAX. COARSE AGGREGATE AND 3000 psi AT 28 DAY COMPRESSIVE STRENGTH AND CONFORM TO ASTM 476.

4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

5. ALL HORIZONTAL AND VERTICAL REINFORCING SHALL BE SOLIDLY GROUTED IN PLACE USING LOW LIFT GROUTING TECHNIQUES. PROVIDE VERTICAL BAR POSITIONERS IN ALL REINFORCED AND GROUTED WALLS.

6. ALL SPLICES SHALL BE LAPPED 48 BAR DIAMETERS, UNO..

7. ALL REINFORCED CELLS AND ALL CELLS BELOW GRADE SHALL BE SOLIDLY GROUTED.

PREENGINEERED HEAVY TIMBER FRAME ROOFING SYSTEM

1.. PRE–ENGINEERED HEAVY TIMBER ROOF TRUSS SYSTEM SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH: A. "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" BY NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA). B. PRODUCT STANDARD PS20 "AMERICAN SOFTWOOD LUMBER STANDARD" BY NBS. C. PLYWOOD CONFORMING TO APA GRADE. C. METAL PLATE–CONNECTED WOOD TRUSS DESIGN CONFORMING TO "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND TPI QUALITY CONTROL MANUAL.

2. CONTRACTOR SHALL SUBMIT PRE–ENGINEERED ROOF SYSTEM TRUSS SHOP DRAWINGS INDICATING TRUSS PLACEMENT IN PLAN, TRUSS TYPE, SPAN HEIGHTS, AND MEMBER SIZES AND WOOD GRADES TO ARCHITECT PRIOR TO FABRICATION. DESIGN CALCULATIONS OF ROOF TRUSS SYSTEM SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO FACBICATION.. SHOP DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY THE DESIGN PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

3. ALL ERECTION AND PERMANENT BRACING AND BRIDGING SHALL BE IN PLACE PRIOR TO APPLICATION OF ANY LOADS.

4. REMOVAL, ALTERATION, OR CUTTING OF ANY TRUSS CHORD OR WEB MEMBER IN THE FEILD IS PROHIBITED WITHOUT PRIOR APPROVAL IN WRITING FROM THE ARCHITECT.

5. DEFLECTION UNDER LIVE LOAD SHALL NOT EXCEED LENGTH/360. TOTAL DEFLECTION UNDER ALL LOADINGS SHALL NOT EXCEED LENGTH/240.

8. THE DIRECTIVES AND MATERIALS AS DETAILED IN THESE CONTRACT DOCUMENTS REFERENCE ONLY THE STRUCTURAL BASE AND EXCLUDE THE PRE–ENGINEERED ROOF TRUSS SYSTEM, UNLESS NOTED OTHERWISE. . ASSUMPTIONS FOR REACTIONS FROM THE PRE–ENGINEERED ROOF TRUSS SYSTEM IMPOSED ON THE STRUCTURAL BASE HAVE BEEN INDICATED IN SECTION AND/OR DETAIL ON THESE CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND PRE–ENGINEERED ROOF TRUSS SUPPLIER ANY DEVIATIONS OR EXCEPTIONS TO ASSUMPTIONS INDICATED HEREWITH.

ROOF DESIGN LOADS:

ROOF DEAD LOADS (ASSUMED MAXIMUMS)

STANDING SEAM METAL DECK:	2 PSF
PURLINS:	2 PSF
MISCELLANEOUS:	3 PSF
HEAVY TIMBER TRUSS SYSTEM	8 PSF MAX. (6 PSF MIN.)
TOTAL TOP CHORD DEAD LOAD:	15 PSF

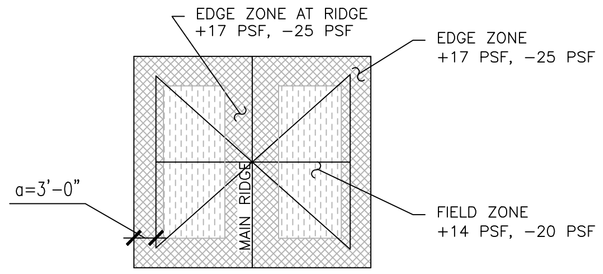
NOTE: HEAVY TIMBER TRUSS AND RAFTER FRAMING SYSTEM IS ASSUMED TO WEIGHT 4700 LBS. MIN. AND 6300 LBS MAX.. ROOF TRUSS SYSTEM SUPPLIER TO COORDINATE FINAL ROOF TRUSS SYSTEM WEIGHT WITH ARCHTECT PRIOR TO APPROVAL.

TOP CHORD LIVE LOAD

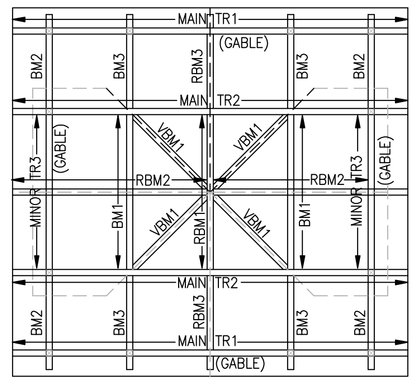
TOTAL LIVE LOAD: 17 PSF (REDUCTION PER CODE)

WIND ON MWFRS: qh= 11 PSF (OPEN STRUCTURE)

WIND UPLIFT ON COMPONENTS:



ROOF LOADING PLAN
DESIGN UPLIFT ON ROOF COMPONENTS



SUGGESTED HEAVY TIMBER ROOF LAYOUT

1. MAIN TR.....HEAVY TIMBER TRUSS SPANNING FULL LENGTH OF PAVILION
   MINOR TR.....HEAVY TIMBER TRUSS SPANNING PARTIAL LENGTH OF PAVILION BETWEEN MAIN TR
   BM.....HEAVY TIMBER BEAM
   RBM.....HEAVY TIMBER RIDGE BEAM
   VBM.....HEAVY TIMBER VALLEY BEAM

2. SEE ARCHITECTURAL PLAN AND SECTIONS FOR SUGGESTED SIZES OF HEAVY TIMBER FRAMING FOR ASTHETICS. PREENGINEERED ROOF SYSTEM DESIGNER MAY ADJUST SIZES AS REQUIRED FOR CHOSEN TYPE AND GRADE OF TIMBER.

3. SUGGESTED LAYOUT WAS USED IN THE PRELIMINARY DETERMINATION OF ASSUMED REACTIONS UPON PAVILION STEEL COLUMNS OR MASONRY PIERS. IT IS MERELY A PROPOSED LAYOUT AND MAY BE ALTERED BY THE PREENGINEERED ROOF DESIGNER AS REQUIRED TO SATISFY LOADING REQUIREMENTS. LAYOUT AND DESIGN OF THE PAVILION ROOF SYSTEM IS THE SOLE RESPONSIBILITY OF THE PREENGINEERED ROOF SYSTEM PROVIDER. FINAL LAYOUT AND REACTIONS OF THE ROOF SUSTEM SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO FABRICATION.

FOR CONSTRUCTION

KACENA DESIGN

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817 WEST PEACHTREE ST, NW
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ATLANTA, GEORGIA 30308-1121
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No.	REVISIONS	DATE	BY
	PLAN SUBMITAL TO CITY OF DUNWOODY	12/19/12	KC
	ISSUED FOR BID	1/4/13	KC

DUNWOODY RENAISSANCE PARKS
DUNWOODY, GA 30346

GENERAL NOTES AND TYPICAL DETAILS

DUNWOODY COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

REGISTERED
No. 17750
PROFESSIONAL
ENGINEER
MELANIE S. SMITH

SCALE (H):	AS NOTED
SCALE (V):	AS NOTED
DESIGNED BY:	MSS
DRAWN BY:	MSS
CHECKED BY:	MC
DATE:	18 Dec 2012
KHA PROJECT NO.:	019124002

SHEET NUMBER
S0.1

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley–Horn and Associates, Inc. shall be without liability to Kimley–Horn and Associates, Inc.

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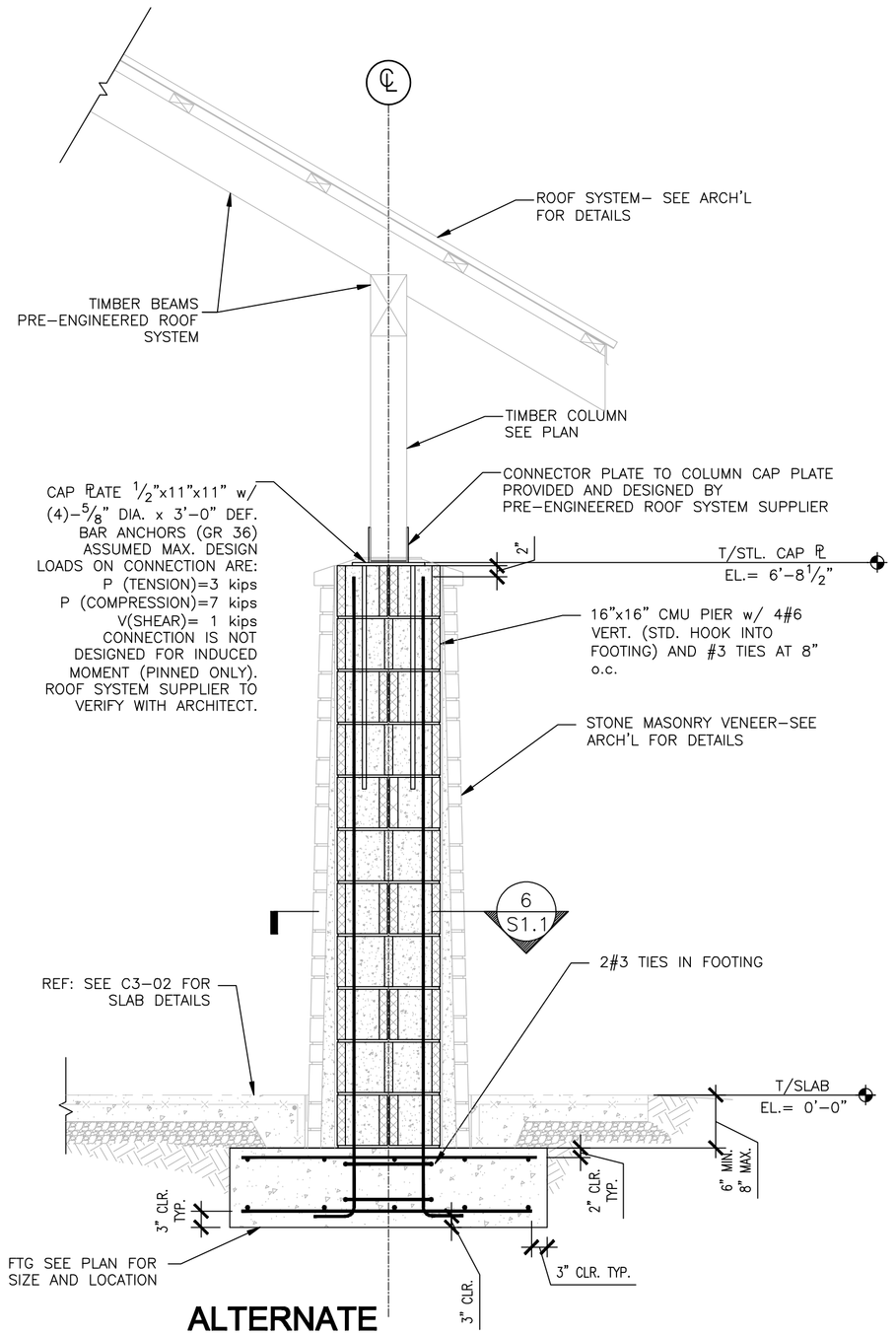
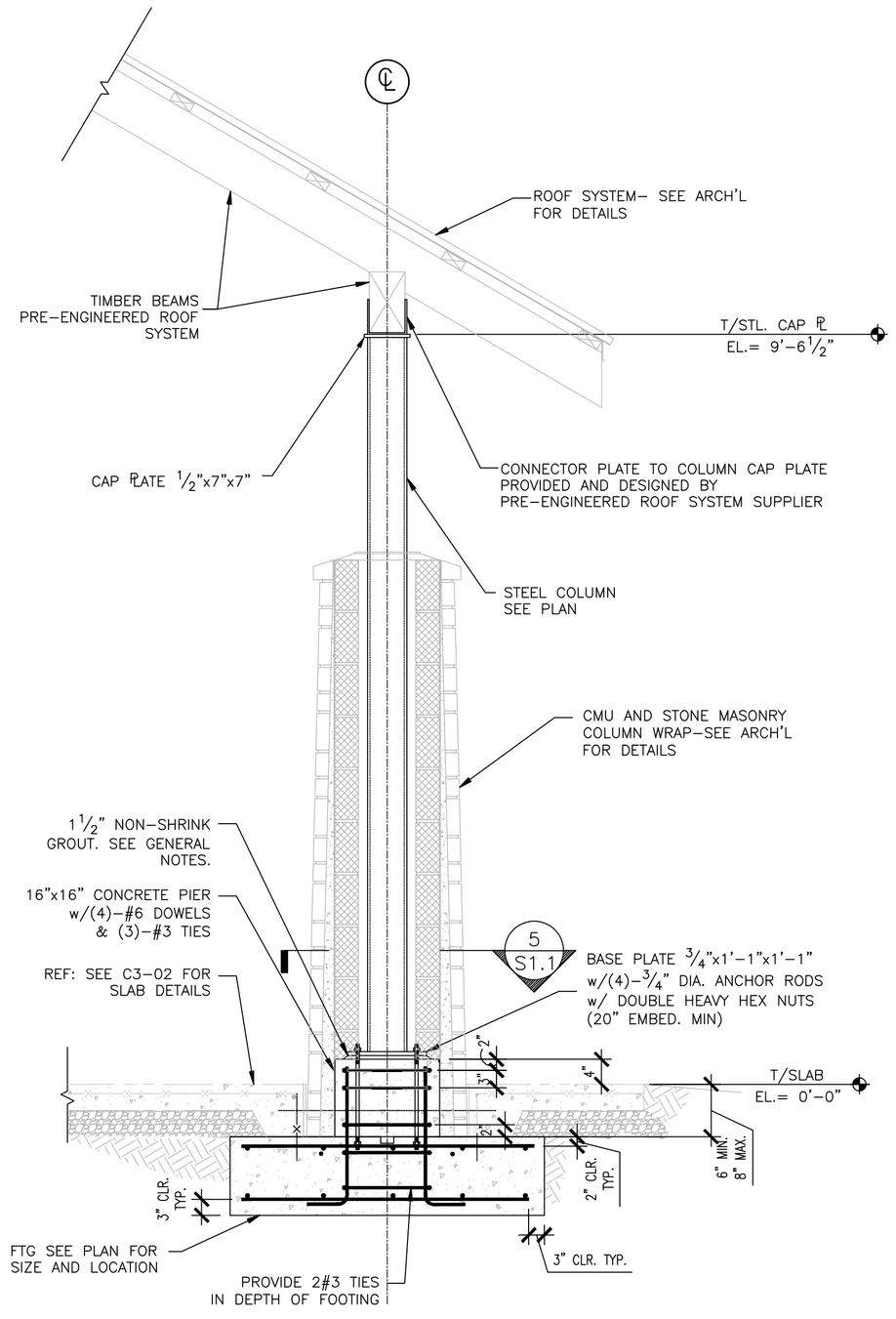
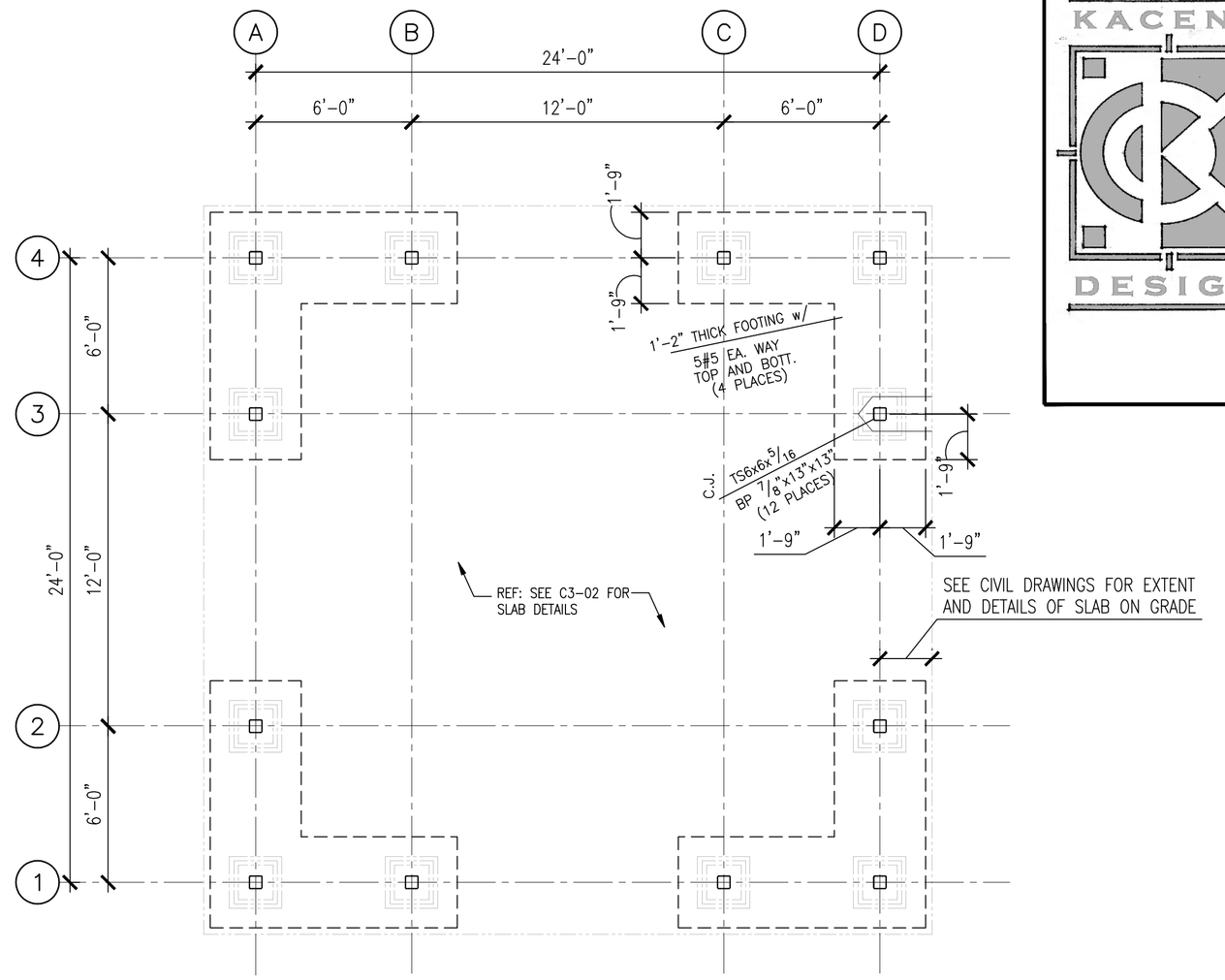


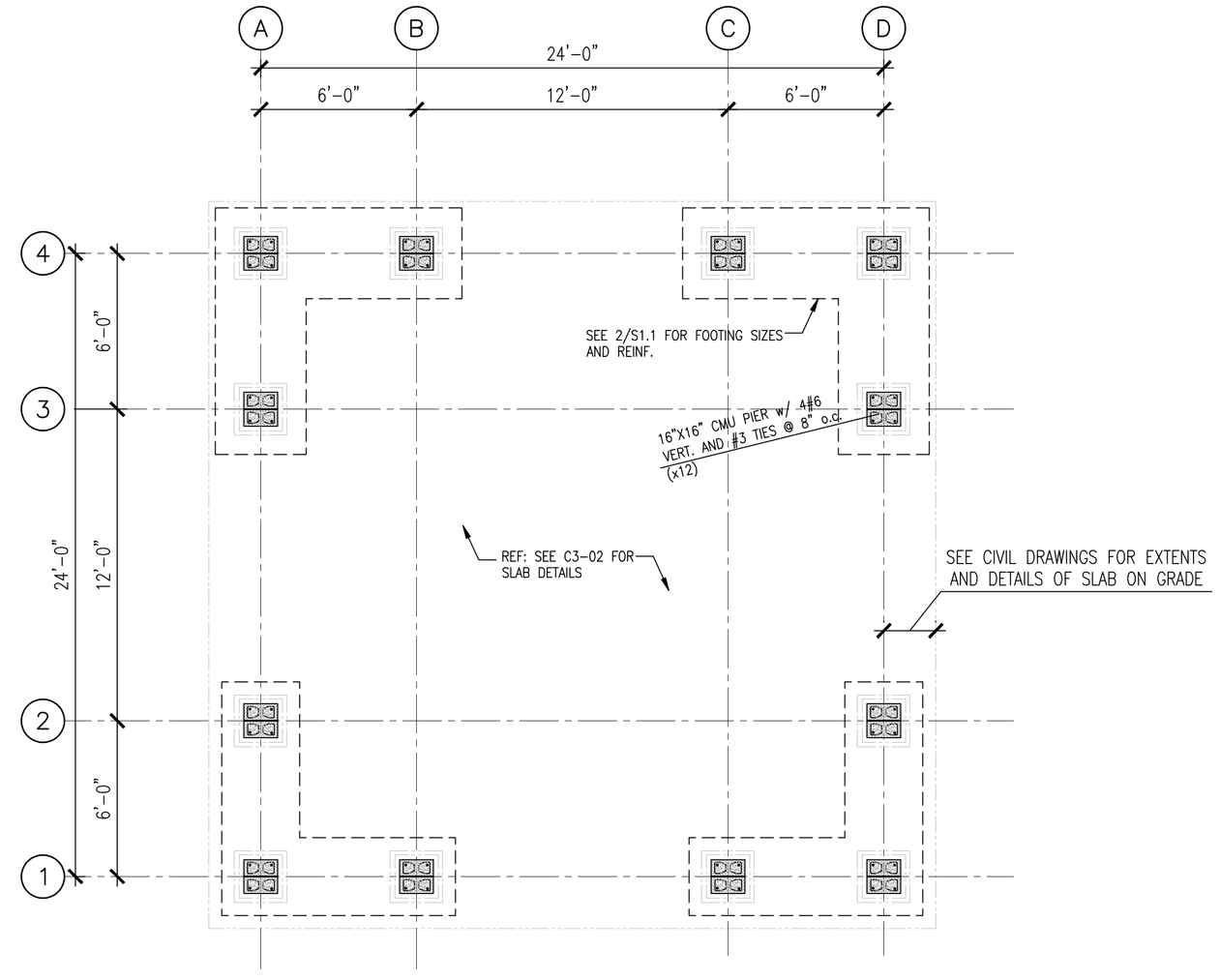
ALTERNATE SECTION AT TYP. COLUMN
4 S1.1 — 3/4" = 1'–0"



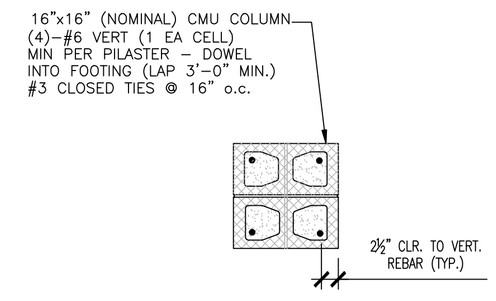
SECTION AT TYP. COLUMN
3 S1.1 — 3/4" = 1'–0"



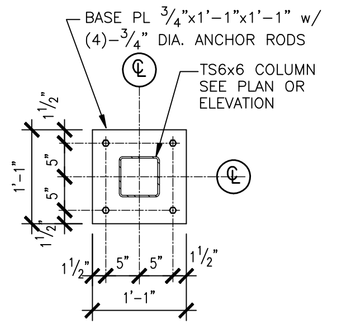
PAVILION FOUNDATION PLAN
2 S1.1 — 1/4" = 1'–0"



ALTERNATE PAVILION FOUNDATION PLAN
1 S1.1 — 1/4" = 1'–0"



ALTERNATE CMU PIER DETAIL
6 S1.1 — 3/4" = 1'–0"



BASE PLATE DETAIL
5 S1.1 — 3/4" = 1'–0"

FOUNDATION PLAN NOTES:

1. SEE CIVIL DRAWINGS FOR SLAB ON GRADE REINFORCEMENT AND DETAILS.
2. UNLESS NOTED OTHERWISE, TOP OF ALL EXTERIOR FOOTINGS ARE TO BE 0'–8" BELOW TOP OF SLAB.
3. IF, AFTER EXCAVATION, THE CONDITION OF THE SOIL INDICATES A SAFE BEARING CAPACITY OF LESS THAN 2500 PSF, THE ARCHITECT SHALL BE NOTIFIED AND THE FOOTINGS REVISED IF NECESSARY. ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL OR STRUCTURAL FILL.
4. ANY FILL WITHIN 10'–0" OF CANOPY LIMIT SHALL BE COMPACTED TO 95% MODIFIED PROCTOR. THE UPPER 12" OF FILL BENEATH STRUCTURAL AREAS SHOULD BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY.
5. FOUNDATION DESIGN AND SUBSURFACE INFORMATION IS BASED ON INFORMATION PROVIDED BY THE CITY OF DUNWOODY AND SHALL BE VERIFIED BY AN INDEPENDENT. TESTING AGENCY PRIOR TO CONSTRUCTION OF FOUNDATION

FOR CONSTRUCTION

KACENA DESIGN

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	PLAN SUBMITAL TO CITY OF DUNWOODY	12/18/12	KC
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DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

PAVILION FOUNDATION PLAN AND SECTIONS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED No. 17750 PROFESSIONAL ENGINEER MELANIE SMITH

SCALE (H):	AS NOTED
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DESIGNED BY:	MSS
DRAWN BY:	MSS
CHECKED BY:	MC
DATE:	18 Dec 2012
KHA PROJECT NO.:	019124002

SHEET NUMBER
S1.1

GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW ALL STRUCTURAL MEMBERS, ARCHITECTURAL ELEMENTS, LIGHTING LAYOUTS, OR ALL OFFSETS, FITTINGS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND ACCESSORIES REQUIRED FOR THE INSTALLATION OF A COMPLETE WORKING SYSTEM TO THE SATISFACTION OF THE OWNER.

2. MECHANICAL SYSTEM INFORMATION SHOWN OR NOTED AS EXISTING ARE BASED ON LIMITED INFORMATON AND MAY NOT BE COMPLETELY ACCURATE. CONTRACTOR IS REQUIRED TO VERIFY ALL EXISTING INFORMATION PRIOR TO BEGINNING ANY WORK. NOTIFY OWNER AND ARCHITECT IF SIGNIFICANT DESCREPANCIES ARE NOTED IN THE EXISTING SYSTEMS THAT NECESSITATE ADDITIONAL WORK TO COMPLETE THE NEW INSTALLATION.

3. COORDINATE THE MECHANICAL WORK WITH THE WORK OF OTHER TRADES AND EXISTING CONDITIONS.

4. COMPLY WITH ALL LOCAL CODES AND ORDINANCES.

5. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

6. CONNECT NEW DUCTWORK AND PIPING TO PACKAGED HVAC UNITS IN LOCATIONS SHOWN AND IN ACCORDANCE WITH UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS. LOCATE UNIT DUCTWORK TO INSURE ADEQUATE SERVICE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH CODE REQUIREMENTS.

7. INSTALL ELECTRONIC SPACE CONTROL THERMOSTATS FURNISHED WITH HVAC UNITS IN LOCATION SHOWN AND CONNECT TO HVAC UNIT CONTROLS. VERIFY THAT THERMOSTAT SELECTION IS COMPATIBLE WITH THE BASE BUILDING CONTROL SYSTEM AND THE REQUIREMENTS OF THE HVAC UNIT CONTROLLERS. THERMOSTAT SHALL INCLUDE 7-DAY PROGRAMMABLE SETPOINT SCHEDULE. INTEGRAL THERMOSTATS SHALL BE UTILIZED WHERE NOTED AND ADJUSTED TO SETPOINTS AS REQUIRED.

8. INSTALL NEW DUCTWORK AS SHOWN. ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA DUCT CONSTRUCTION STANDARDS. DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH REQUIREMENTS OF THE 1 IN. WG PRESSURE CLASSIFICATION. ALL EXPOSED DUCTWORK SHALL BE ROUND SPIRAL DUCTWORK.

9. ALL OUTSIDE AIR DUCTWORK AND ALL DUCTWORK INSTALLED ABOVE INSULATED CEILINGS SHALL BE INSULATED WITH 2" THICK FIBERGLASS DUCTWRAP INSULATION WITH VAPOR BARRIER COATING AND A NOMIMAL R-6 RATING. CONDITIONED AIR DUCTWORK INSTALLED OUTDOORS SHALL BE INSULATED WITH A MINIMUM OF 2" THICK FIBERGLASS DUCT INSULATION AND FINISHED WITH A WATERPROOF MASTIC COATING SUITABLE FOR AN EXPOSED DUCTWORK INSTALLATION, OR ACCEPTABLE EQUIVALENT. INSTALLATION SHALL BE COMPLETE FOR ALL DUCTWORK SYSTEMS UNLESS SPECIFICALLY EXCLUDED. INSULATION INSTALLATION SHALL BE IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE SUCH THAT ALL VAPOR BARRIERS SHALL BE SECURE AND NO LOOSE JOINTS OR PATCHES EXIST IN THE FINISHED PRODUCT.

10. SPACE ABOVE CEILINGS AND INSIDE MECHANICAL ROOMS MAY BE USED FOR RETURN AIR PLENUMS. ALL MATERIALS INSTALLED IN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.

11. UNLESS NOTED OTHERWISE, ALL NEW FLEXIBLE DUCT CONNECTORS TO SUPPLY AIR DIFFUSERS SHALL BE SIZED IN ACCORDANCE WITH THE FOLLOWING TABLE:

CFM RANGE	FLEX DUCT DIAMETER
0-80	6"
81-165	8"
166-300	10"
301-500	12"

12. AFTER COMPLETION OF NEW MECHANICAL SYSTEMS INSTALLATION, ADJUST ALL THERMOSTATS, AIR HANDLING UNITS, PUMPS, BALANCING VALVES, ETC. TO ATTAIN THE PERFORMANCE VALUES SCHEDULED. TEST, ADJUST AND BALANCE ALL AIR OUTLET DEVICES TO CFM VALUES SHOWN WITHOUT CREATING OBJECTIONABLE NOISE OR DRAFTS. PRIOR TO FINAL PROJECT CLOSE-OUT, SUBMIT FOUR COPIES OF FINAL TEST AND BALANCE REPORT TO ARCHITECT AND ENGINEER FOR RECORD.

CornerStone
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MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR	FLEX	FLEXIBLE	PRV	PRESSURE REDUCING VALVE
ADJ	ADJUSTABLE	FLR	FLOOR	PSIA	POUNDS PER SQ. IN. ABSOLUTE
AFF	ABOVE FINISHED FLOOR	FP	FAN POWERED	PSIG	POUNDS PER SQ. IN. GAUGE
AHU	AIR HANDLING UNIT	FSD	FIRE/SMOKE DETECTOR	RA	RETURN AIR
ARCH	ARCHITECT	FT	FEET	RAG	RETURN AIR GRILLE
BTU	BRITISH THERMAL UNIT	GAL	GALLONS	RAR	RETURN AIR REGISTER
BTUH	BRITISH THERMAL UNIT / HOUR	GPM	GALLONS PER MINUTE	REFG	REFRIGERANT
CC	COOLING COIL	GR	GRILLE	RF	RELIEF FAN
CAP	CAPACITY	HD	HEAD	RH	RELATIVE HUMIDITY
CD	CONDENSATE DRAIN	HP	HORSEPOWER	RL	REFRIGERANT LIQUID
CFM	CUBIC FEET PER MINUTE	HR	HOUR	RPM	REVOLUTIONS PER MINUTE
CHW	CHILLED WATER	HWR	HOT WATER RETURN	RS	REFRIGERANT SUCTION
CHWP	CHILLED WATER PUMP	HWS	HOT WATER SUPPLY	RTU	ROOFTOP UNIT
CHR	CHILLED WATER RETURN	IHP	HEAT PUMP INDOOR UNIT	SA	SUPPLY AIR
CHS	CHILLED WATER SUPPLY	IN	INCHES	SF	SUPPLY FAN
CLG	CEILING	IRH	INFRARED HEATER	SG	SUPPLY GRILLE
CO	CLEANOUT	KEF	KITCHEN EXHAUST FAN	SP	STATIC PRESSURE (IN. W.G.)
COMP	COMPRESSOR	KSF	KITCHEN SUPPLY FAN	SQ	SQUARE
CONC	CONCRETE	KW	KILOWATT	SR	SUPPLY REGISTER
CONN	CONNECTION	LAT	LEAVING AIR TEMPERATURE	SS	STAINLESS STEEL
CONT	CONTINUATION	LBS	POUNDS	STRUCT	STRUCTURAL
CU	CONDENSING UNIT	LF	LINEAR FEET	TRANS	TRANSITION
CWP	CONDENSER WATER PUMP	LWT	LEAVING WATER TEMPERATURE	T'STAT	THERMOSTAT
CWR	CONDENSER WATER RETURN	MAX	MAXIMUM	TYP	TYPICAL
CWS	CONDENSER WATER SUPPLY	MBH	1000 BTU/HOUR	UC	UNDERCUT
D	DRAIN	MIN	MINIMUM	UH	UNIT HEATER
DB	DRY BULB	MTD	MOUNTED	UNO	UNLESS NOTED OTHERWISE
DG	DOOR GRILLE	N/A	NOT APPLICABLE	VAV	VARIABLE AIR VOLUME
DIA	DIAMETER	NC	NOISE CRITERIA	VB	VACUUM BREAKER
DIFF	DIFFUSER	N.C.	NORMALLY CLOSED	VD	VOLUME DAMPER
DN	DOWN	N.O.	NORMALLY OPEN	VEL	VELOCITY
DWGS	DRAWINGS	NO.	NUMBER OR DESIGNATION	W	WATTS
EA	EACH	NOM	NOMINAL	W/	WITH
EAT	ENTERING AIR TEMPERATURE	NPSH	NET POSITIVE SUCTION HEAD	WB	WET BULB
EF	EXHAUST FAN	OA	OUTDOOR AIR	WC	WATER COLUMN
EG	EXHAUST GRILLE	OBD	OPPOSED BLADE DAMPER	WG	WATER GAUGE
ENG	ENGINEER	OC	ON CENTER	°F	DEGREES FAHRENEIT
ER	EXHAUST REGISTER	OHP	HEAT PUMP OUTDOOR UNIT	%	PERCENT
ESP	EXTERNAL STATIC PRESSURE	OPNG	OPENING		
EWT	ENTERING WATER TEMPERATURE	PH, ø	ELECTRICAL PHASE		
FCU	FAN COIL UNIT	PIU	POWERED INDUCTION UNIT		
FD	FIRE DAMPER				
FUR	FURNACE				

MECHANICAL LEGEND

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED

- SUPPLY AIR GRILLES (DUCT SIDE AND BOTTOM)
- SUPPLY AIR DIFFUSER WITH FLEX DUCT AND BELLMOUTH SPIN-IN WITH MANUAL DAMPER
- RETURN OR EXHAUST AIR GRILLES (DUCT SIDE AND BOTTOM)
- RETURN AIR GRILLE (OPEN TO PLENUM)
- RETURN OR EXHAUST AIR GRILLE (SHOWN WITH DUCT)
- 24/12 — RECTANGULAR DUCT (24" WIDE BY 12" DEEP)
- 8"ø — ROUND DUCT (8" DIAMETER)
- EXISTING DUCTWORK
- EXISTING EQUIPMENT
- SECTION THROUGH RETURN OR EXHAUST DUCTWORK
- SECTION THROUGH SUPPLY DUCTWORK
- DUCT ELBOW (WITH TURNING VANES)
- DUCT TEE (WITH DIVIDER AND TURNING VANES)
- ROUND ELECTRONIC CONTROL DAMPER
- AIRFLOW - SUPPLY
- AIRFLOW - RETURN, EXHAUST OR TRANSFER
- DUCT LINER (FOR SOUND ATTENUATION)
- FLEXIBLE CONNECTION
- M — MOTOR OPERATED DAMPER
- FS — FIRE SUPPRESSION DAMPER
- FIRE DAMPER AND ACCESS DOOR
- MANUAL VOLUME DAMPER
- SPLITTER DAMPER
- T — THERMOSTAT
- A / 200 — DIFFUSER AND GRILLE DESIGNATION (DIFFUSER A, 200 CFM)

PIPING

- CWS — COOLING WATER SUPPLY
- CWR — COOLING WATER RETURN
- D — DRAIN PIPE
- CA — COMPRESSED AIR PIPE

VALVES & SPECIALTIES

- FLOW INDICATOR
- SHUT-OFF VALVE
- GLOBE VALVE
- CHECK VALVE
- FLOW CONTROL VALVE W/ CHECK
- PLUG OR BALANCING SHUT-OFF VALVE
- DRAIN VALVE W/ HOSE END
- STRAINER W/ BLOW-OFF VALVE
- TEMPERATURE CONTROL VALVE, 3-WAY
- AIR VENT
- PRESSURE - TEMP. TAP
- PRESSURE GAUGE W/ PIG TAIL & COCK
- THERMOMETER
- PIPE UNION

FIRE PROTECTION

- F — FIRE PIPE
- EXISTING FIRE SPRINKLER
- EXISTING FIRE SPRINKLER TO BE RELOCATED
- NEW FIRE SPRINKLER
- EXISTING FIRE SPRINKLER TO BE REMOVED

MISCELLANEOUS

- POINT OF DUCT CONNECTION NEW TO EXISTING
- POINT OF PIPE CONNECTION NEW TO EXISTING

PLUMBING

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- V — PLUMBING VENT PIPE
- W — SANITARY WASTE PIPE
- S — BUILDING SANITARY SEWER PIPE
- ST — STORM DRAIN/ BUILDING STORM SEWER PIPE
- OST — OVERFLOW STORM DRAIN PIPE
- VAC — VACUUM PIPE
- CA — COMPRESSED AIR PIPE
- HORIZONTAL CLEANOUT
- VERTICAL CLEANOUT

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MECHANICAL LEGEND AND
GENERAL NOTES

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GEORGIA REGISTERED No. 13783 PROFESSIONAL ENGINEER BRUCE G. DUFF

SCALE (H):	AS NOTED
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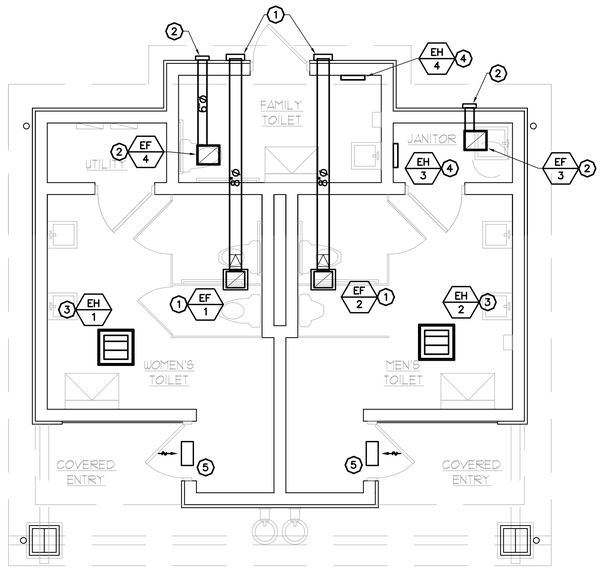
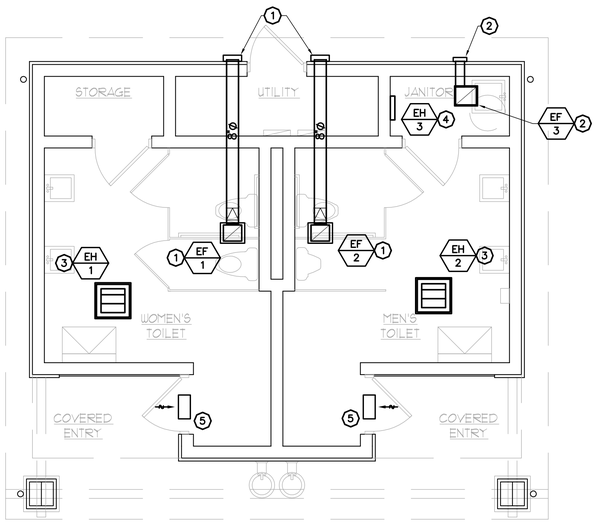


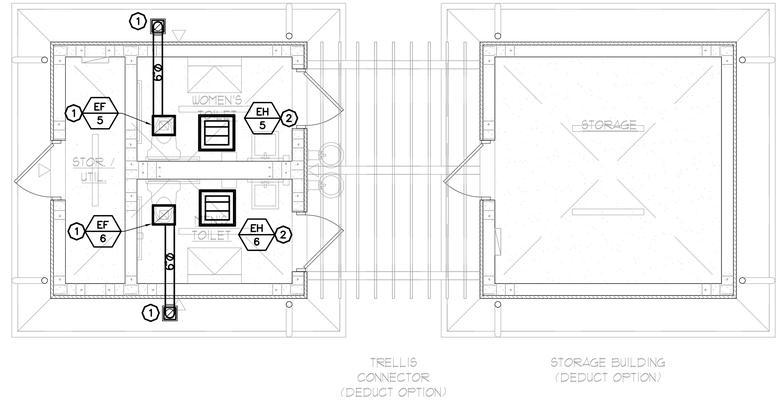
1 M1.1 TOILET BUILDING
MECHANICAL PLAN - BASE BID
SCALE: 1/4" = 1'-0"
4' 0 4' 8'

KEYNOTES

1. INSTALL CEILING-MOUNTED, RECESSED EXHAUST FAN IN RESTROOM WITH 8"ø DISCHARGE THROUGH ATTIC SPACE TO WALL CAP ON END OF BUILDING ROOF - COORDINATE WALL CAP INSTALLATION WITH BUILDING CONSTRUCTION DETAILS AND PROVIDE WALL FLASHING AND SEALANT AS REQUIRED.
2. INSTALL CEILING-MOUNTED, RECESSED EXHAUST FAN IN RESTROOM WITH 6"ø DISCHARGE THROUGH ATTIC SPACE TO WALL CAP ON END OF BUILDING ROOF - COORDINATE WALL CAP INSTALLATION WITH BUILDING CONSTRUCTION DETAILS AND PROVIDE WALL FLASHING AND SEALANT AS REQUIRED.
3. INSTALL NEW ELECTRIC CEILING HEATER RECESSED INTO ATTIC AND FLUSH WITH CEILING. COORDINATE INSTALLATION LOCATION WITH TRUSS LOCATIONS AND CEILING INSTALLATION OR AS OTHERWISE DIRECTED BY ARCHITECT.
4. INSTALL NEW ELECTRIC WALL HEATER WITHIN FLUSH-MOUNTED BOX. SET HEATER BOX APPROXIMATELY 18" AFF OR AS OTHERWISE DIRECTED BY ARCHITECT.
5. 16x8 TRANSFER GRILLE THROUGH WALL ABOVE DOOR FOR TOILET EXHAUST MAKEUP AIR.



2 M1.1 TOILET BUILDING
MECHANICAL PLAN - DEDUCTIVE ALTERNATE #1
SCALE: 1/4" = 1'-0"
4' 0 4' 8'



3 M1.1 SMALL RESTROOM BLDG
MECHANICAL PLAN
SCALE: 1/4" = 1'-0"
4' 0 4' 8'

KEYNOTES

1. INSTALL CEILING-MOUNTED, RECESSED EXHAUST FAN IN RESTROOM WITH 6"ø DISCHARGE THROUGH ATTIC SPACE TO 8x8 LOUVER IN BOTTOM OF SOFFIT, OR TO WALL CAP ON END OF BUILDING ROOF - COORDINATE WITH ARCHITECT FINAL DISCHARGE LOCATION, WALL CAP INSTALLATION WITH BUILDING CONSTRUCTION DETAILS AND PROVIDE WALL FLASHING AND SEALANT AS REQUIRED.
2. INSTALL NEW ELECTRIC CEILING HEATER RECESSED INTO ATTIC AND FLUSH WITH CEILING. COORDINATE INSTALLATION LOCATION WITH TRUSS LOCATIONS AND CEILING INSTALLATION OR AS OTHERWISE DIRECTED BY ARCHITECT.

FAN SCHEDULE

ITEM	TYPE	SERVICE	CFM	ESP IN WC	DRIVE TYPE	SONES	RPM	HP	VOLT/ø	MANUFACTURER AND MODEL NUMBER	NOTES
EF-1	CEILING EXHAUST	WOMEN'S TOILET ROOM	200	0.25	DIRECT	4.3	1610	122W	115/1	COOK GEMINI GC-340	1, 2, 3
EF-2	CEILING EXHAUST	MEN'S TOILET ROOM	200	0.25	DIRECT	4.3	1610	122W	115/1	COOK GEMINI GC-340	1, 2, 3
EF-3	CEILING EXHAUST	JANITOR CLOSET	50	0.25	DIRECT	1.3	800	50W	115/1	COOK GEMINI GC-122	1, 2, 3
EF-4	CEILING EXHAUST	FAMILY TOILET ROOM	90	0.25	DIRECT	3.0	1100	98W	115/1	COOK GEMINI GC-144	1, 2, 3
EF-5	CEILING EXHAUST	WOMEN'S TOILET ROOM	90	0.25	DIRECT	3.0	1100	98W	115/1	COOK GEMINI GC-144	1, 2, 3
EF-6	CEILING EXHAUST	MEN'S TOILET ROOM	90	0.25	DIRECT	3.0	1100	98W	115/1	COOK GEMINI GC-144	1, 2, 3

NOTES:
1. PROVIDE UNIT WITH BACKDRAFT DAMPER AND HANGING ISOLATOR KIT
2. PROVIDE UNIT WITH WALL CAP OR OTHER APPROVED DISCHARGE HOOD
3. CONTROL FAN FROM WALL SWITCH

ELECTRIC HEATER SCHEDULE

ITEM	TYPE	KW	CFM	VOLT/ø	MANUFACTURER AND MODEL NUMBER	NOTES
EH-1	CEILING-MOUNTED HTR	5	425	240/1	MARKEL H3485-TA1S	1
EH-2	CEILING-MOUNTED HTR	5	425	240/1	MARKEL H3485-TA1S	1
EH-3	WALL MOUNTED HTR	2	175	240/1	MARKEL HF3324TTD-RP	1, 2, 3
EH-4	WALL MOUNTED HTR	2	175	240/1	MARKEL HF3324TTD-RP	1, 2, 3
EH-5	CEILING-MOUNTED HTR	3	425	240/1	MARKEL H3483-TA1S	1
EH-6	CEILING-MOUNTED HTR	3	425	240/1	MARKEL H3483-TA1S	1

NOTES:
1. PROVIDE UNIT WITH THERMOSTAT, TRANSFORMER AND DISCONNECT SWITCH
2. PROVIDE UNIT WITH SUMMER FAN SWITCH
3. PROVIDE UNIT WITH RECESSED WALL MOUNTING BOX

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MECHANICAL PLANS, NOTES AND SCHEDULES

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GEORGIA REGISTERED No. 13763 PROFESSIONAL ENGINEER BRUCE G. DUFF

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ELECTRICAL LEGEND

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

LIGHTING

- DOWNLIGHT
- WALL MOUNTED FLUORESCENT OR INCANDESCENT LUMINAIRE, AS NOTED
- CEILING OR WALL MOUNTED HID LUMINAIRE
- PORCELAIN KEYLESS
- 1 X 4 FLUORESCENT LUMINAIRE
- 2 X 2 FLUORESCENT LUMINAIRE
- 2 X 4 FLUORESCENT LUMINAIRE
- FLUORESCENT STRIP LUMINAIRE
- TRACK LIGHT, AS NOTED OR SCHEDULED
- DIRECTIONAL ACCENT OR WALL-WASH LUMINAIRE
- PENDANT LIGHT
- UNDER CABINET LIGHT
- DOWN LIGHT
- CEILING FAN SEE LUMINAIRE SCHEDULES FOR SPECIFICATIONS (LIGHT KITS)
- CEILING OR WALL MOUNTED EXIT SIGN, INSTALL FACES AS INDICATED BY SHADING
- EMERGENCY LIGHT AS NOTED AS NOTED

POWER

- STRAIGHT BLADE DUPLEX RECEPTACLE
  - SUBSCRIPTS:
    - HG = HOSPITAL GRADE
    - HGT = HOSPITAL GRADE TAMPER RESISTANT
    - GFI = GROUND FAULT INTERRUPTER
    - SS = SURGE SUPPRESSION
    - AC = 6" ABOVE COUNTER
- STRAIGHT BLADE DOUBLE DUPLEX RECEPT. (FOURPLEX)
- STRAIGHT BLADE SINGLE RECEPTACLE
- STRAIGHT BLADE DUPLEX RECEPT. HALF-SWITCHED
- STRAIGHT BLADE DUPLEX RECEPT. ON EMERGENCY CIRCUIT
- OUTLET WITH SPECIAL DEVICE, AS NOTED
- WALL MOUNTED OUTLET WITH SPECIAL DEVICE, AS NOTED
- FLOOR MOUNTED POWER BOX, AS NOTED
- FLOOR MOUNTED COMBINATION OUTLET BOX, AS NOTED
- POKE THROUGH, AS NOTED
- PEDESTAL OUTLET, AS NOTED
- JUNCTION BOX AS NOTED
- OUTLET BOX
- WALL MOUNTED OUTLET BOX
- ABOVE CEILING POWER DISTRIBUTION BOX
- SURFACE RACEWAY, AS NOTED
- CLOCK HANGER OUTLET
- TELE-POWER POLE
- PULL BOX
- CONNECTION TO MOTOR
- MAGNETIC MOTOR STARTER
  - SUBSCRIPTS:
    - MS = MULTISPEED
    - SSRV = SOLID-STATE, REDUCED VOLTAGE
    - VF = VARIABLE FREQUENCY
- SAFETY DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION DISCONNECT AND STARTER
- ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
  - SUBSCRIPTS:
    - AT = ADJUSTABLE TRIP
    - EAT = ELECTRONIC ADJUSTABLE TRIP
    - CL = CURRENT LIMITING
    - IF = INTEGRALLY FUSED
    - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
    - ST = SHUNT TRIP
    - KI = KEY INTERLOCK
    - ZSI = ZONE-SELECTIVE INTERLOCKING
- CONNECTION TO PRE-WIRED EQUIPMENT
- BREAKER PANEL
- MOTOR CONTROL CENTER
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- TRANSFORMER
- ENGINE GENERATOR

CIRCUITING

- CONDUIT RUN
- CIRCUIT HOMERUN TO PANEL OR CABINET, NO. OF ARROWS INDICATE NO. OF CIRCUITS
- CIRCUIT TURNED UP
- CIRCUIT TURNED DOWN
- CONDUIT STUB-OUT - CAP & MARK
- CIRCUIT IN FLEXIBLE CONDUIT
- SEALOFF

SWITCHING

- S WALL MOUNTED SWITCH
  - SUBSCRIPTS:
    - 2 = DOUBLE POLE
    - 3 = 3-WAY
    - 4 = 4-WAY
    - D = DIMMER
    - K = KEY-OPERATED
    - O = SWITCH MOUNTED OCCUPANCY SENSOR
    - P = PILOT LIGHT
    - T = THERMAL OVERLOAD
    - LV = LOW VOLTAGE
    - DS = DOOR SWITCH

SCHEMATIC WIRING GRAPHICS

- METER
- GROUND CONNECTION AS NOTED
- FUSED DISCONNECT SWITCH
- FUSES
- MAGNETIC MOTOR STARTER
  - SUBSCRIPTS:
    - MS = MULTISPEED
    - SSRV = SOLID-STATE, REDUCED VOLTAGE
    - VF = VARIABLE FREQUENCY
- ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
  - SUBSCRIPTS:
    - AT = ADJUSTABLE TRIP
    - EAT = ELECTRONIC ADJUSTABLE TRIP
    - CL = CURRENT LIMITING
    - IF = INTEGRALLY FUSED
    - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
    - ST = SHUNT TRIP
    - KI = KEY INTERLOCK
    - ZSI = ZONE-SELECTIVE INTERLOCKING
- POWER TRANSFORMER
- CURRENT TRANSFORMER
- AMMETER
- VOLT METER
- TRANSFER SWITCH
- GROUND FAULT PROTECTION
- GENERATOR
- MOTOR, NUMBER INDICATES HORSEPOWER

FIRE ALARM SYSTEM

- FACP FIRE ALARM CONTROL PANEL
- FAGP FIRE ALARM GRAPHIC PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- F MANUAL PULL STATION
- FIRE ALARM STROBE
- FC GENERAL ALARM COMBINATION HORN/STROBE
- FH FIRE ALARM HORN
- S CEILING OR WALL MOUNTED 120V SMOKE DETECTOR WITH BATTERY BACKUP.
- SD SMOKE DETECTOR IN VENTILATING DUCT
- FSD FAN SHUT-DOWN CONNECTION
- DH MAG. DOOR HOLDER
- FP SPRINKLER SYSTEM FLOW SWITCH
- SPRINKLER SYSTEM TAMPER SWITCH
- FIREFIGHTERS TELEPHONE JACK
- LL LIFE SAFETY SPEAKER
- LLS LIFE SAFETY SPEAKER WITH STROBE
- P REMOTE PILOT LIGHT
- REMOTE PILOT LIGHT WITH TEST SWITCH
- MONITOR MODULE
- CONTROL MODULE
- DAMPER CONNECTION

COMMUNICATION SYSTEM

- FLOOR MOUNTED TELEPHONE AND/OR DATA OUTLET BOX, AS NOTED
- WALL MOUNTED TELEPHONE OUTLET
- WALL MOUNTED DATA OUTLET
- WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET BOX
- PAY PHONE
- TELEPHONE TERMINAL BOARD - TTB
- S CEILING OR WALL MOUNTED SPEAKER
- VOLUME CONTROL
- FLOOR OR WALL MOUNTED MICROPHONE OUTLET
- CALL-IN SWITCH
- TIME-TONE UNIT
- CEILING OR WALL MOUNTED CLOCK
- PROGRAM BELL
- BUZZER
- HOUSE PHONE/INTERCOM
- MASTER INTERCOM STATION
- TV CABLE/SATELLITE TELEVISION OUTLET
- CC CLOSED CIRCUIT TV OUTLET
- AMPLIFIER

NOTATIONS

1 - UPPER CASE LETTER AT LUMINAIRES (F1, J1 , ETC.) INDICATES LUMINAIRE TYPE. (F1) = TYPE F1 LUMINAIRES IN AREA INDICATED.

2 - LOWER CASE LETTER AT LUMINAIRES AND SWITCHES (a, b, ETC.) INDICATE ASSOCIATED UNITS FOR SWITCHING.

3 - SHADING WITHIN LUMINAIRE DENOTES UNIT ON EMERGENCY (EM) CIRCUIT.

4 - "NL" WITHIN LUMINAIRES DENOTES UNIT ON NIGHT LIGHT CIRCUIT.

5 - PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

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ABBREVIATIONS

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

AC	- ABOVE COUNTER
AFC	- ABOVE FINISHED CEILING
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
AIC	- AMPS INTERRUPTING CURRENT
AL	- ALUMINUM
BFG	- BELOW FINISHED GRADE
CB	- CIRCUIT BREAKER
CR	- CORROSION RESISTANT
CPT	- CONTROL POWER TRANSFORMER
CT	- CURRENT TRANSFORMER
CU	- COPPER
ELR	- END OF LINE RESISTOR
EM	- EMERGENCY
ES	- EMERGENCY STOP
ETM	- ELAPSED TIME METER
EWC	- ELECTRIC WATER COOLER
FLA	- FULL LOAD AMPS
FVNR	- FULL VOLTAGE, NON-REVERSING
FVR	- FULL VOLTAGE, REVERSING
FWE	- FURNISHED WITH EQUIPMENT
GFI	- GROUND FAULT INTERRUPTER
GRC	- GALVANIZED RIGID CONDUIT
HOA	- HAND-OFF-AUTOMATIC
HP	- HORSEPOWER
IG	- ISOLATED GROUND
LC	- LIGHTING CONTACTOR
LOR	- LOCAL-OFF-REMOTE
LS	- LEVEL SWITCH
LT	- LET THROUGH
MCA	- MINIMUM CIRCUIT AMPS
MCB	- MAIN CIRCUIT BREAKER
MCC	- MOTOR CONTROL CENTER
MCCB	- MOLDED CASE CIRCUIT BREAKER
MCP	- MOTOR CIRCUIT PROTECTION
MLO	- MAIN LUGS ONLY
NC	- NORMALLY CLOSED
NIC	- NOT IN CONTRACT
NL	- NIGHT LIGHT
NO	- NORMALLY OPEN
NTS	- NOT TO SCALE
OC	- OVER CURRENT
OL	- OVERLOAD
PT	- POTENTIAL TRANSFORMER
RVNR	- REDUCED VOLTAGE, NON-REVERSING
SC	- SHORT CIRCUIT
SR	- SAFE OR STOP/RUN
TTB	- TELEPHONE TERMINAL BOARD
UG	- UNDERGROUND
VFD	- VARIABLE FREQUENCY DRIVE
WG	- WIREGUARD
WP	- WEATHERPROOF
XFMR	- TRANSFORMER
XP	- EXPLOSION PROOF
ZS	- LIMIT OR POSITION SWITCH

THESE DRAWINGS ARE DIAGRAMMATIC - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS. BRANCH CIRCUITING CONVENTION - #12 AWG PER PHASE AND NEUTRAL (WHERE REQUIRED) AND 20 AMPERE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED. PROVIDE QUANTITY AND SIZE SWITCH CONDUCTORS AS REQUIRED TO MAKE SYSTEM OPERATIONAL.

THESE "E" SHEETS PERTAIN TO THE BUILDING / STRUCTURE INTERIOR'S. SEE SITE ELECTRICAL PLANS BY OTHERS FOR SITE ELECTRICAL.

GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)

1. COORDINATE LOCATION OF LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. PLANS DO NOT INDICATE ALL OF THE UG UTILITY LINES, RE: CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES OF ALL TRADES PRIOR TO ANY SITE WORK.
3. PROVIDE (1) 3/4"C. WITH PULL WIRE FROM EACH TELEPHONE, DATA OR COMMUNICATION OUTLET SHOWN, TO ABOVE ACCESSIBLE CEILING, AND CAP. WHERE CEILING IS INACCESSIBLE, ROUTE CONDUIT TO TELCO DEMARC.
4. COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH-INS.
5. COORDINATE LOCATION OF ALL OUTLETS WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS AND EQUIPMENT INSTALLATION DRAWINGS.
6. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
8. ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (PHASE,NEUTRAL,GROUND).
9. CONTRACTOR SHALL NOT ROUTE ANY CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS NOTED TO DO SO.
10. ALL 120V, 1ø, GENERAL PURPOSE RECEPTACLES SHALL BE GFCI TYPE.
12. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DIAGRAMS FOR LOCATIONS OF FLOOR DEVICES AND WALL DEVICES. LOCATION WILL INDICATE VERTICAL AND/ OR HORIZONTAL MOUNTING. IF DEVICES ARE NOT NOTED OTHERWISE THEY SHALL BE MOUNTED LONG AXIS VERTICAL AT +15" TO CENTER.
13. INFORMATION ON THE DRAWINGS HAS BEEN ASCERTAINED FROM INFORMATION PROVIDED BY OTHERS. THIS INFORMATION IS AS ACCURATE AS CONDITIONS WOULD ALLOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE, PRIOR TO BID, AND FAMILIARIZE HIMSELF WITH THE EXTENT OF REMODEL WORK REQUIRED. NO EXTRAS WILL BE ALLOWED FOR ALTERATIONS OF A FORESEEABLE NATURE REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY CONTRACT DOCUMENTS.
14. ALL NEW WIRING SHALL BE CONCEALED IN NEW WALLS OR ABOVE CEILINGS. SURFACE MOUNTED CONDUIT SHALL NOT BE USED IN ANY FINISHED AREAS.
15. PROVIDE GFI PROTECTED OUTLETS AS REQUIRED BY NEC AND ARC FAULT PROTECTION AS REQUIRED BY NEC.
16. AT THE TIME OF DESIGN, INFORMATION ON SHORT CIRCUIT / FAULT CURRENTS WAS NOT AVAILABLE FROM UTILITY SINCE INFRASTRUCTURE HAD NOT BEEN COMPLETED. PRIOR TO ORDERING EQUIPMENT, VERIFY WITH UTILITY TO DETERMINE SHORT CIRCUIT/FAULT CURRENT VALUES. PROVIDE EQUIPMENT SUITABLE FOR THESE VALUES. MINIMUM AIC RATING TO BE 22KAIC.
17. COORDINATE WITH UTILITY CONTRACTOR FOR SERVICE TO EACH BUILDING/STRUCTURE PROVIDE ALL COMPONENTS NECESSARY FOR SERVICE. SERVICE CONDUITS AND CONDUIT ARE INDICATED ON RISER DIAGRAMS BUT MUST BE COORDINATED WITH UTILITY CONTRACTOR.
18. VERIFY PROPER LIGHT FIXTURE TRIM WITH CEILING INSTALLATION. PROVIDE GRID TRIM FOR LAYIN CEILING AND FLANGE FOR GYP OR WOOD CEILINGS.
19. PROVIDE POWER TO ALL AUXILIARY MECHANICAL DEVICES SUCH AS LOUVER, DAMPERS, CONDENSATE PUMPS, THERMOSTATS, ETC... PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED.
20. IF NOT NOTED, PROVIDE (2#12+#12G) 3/4"C FOR ALL 20 AMP BRANCH CIRCUITS. PROVIDE ADDITIONAL #12 CONDUCTOR FOR SWITCH LEGS, TRAVELERS, UNSWITCHED CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

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(678) 382-6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER 12/19/12 WILLIAM E. BELL

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER E-1

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CK0864
6/26/2013

PANEL " A "

120/240 VOLT | 1 PHASE | 3 WIRE SERVICE
225 AMP: MAIN BREAKER ☒ | LUGS ONLY ☐ | MOUNTING: SURFACE ☒
42000 AIC: GROUND BUS ☒ | NEUTRAL ☒ | FLUSH ☐

DESCRIPTION	L	R	T|S|O M|A|E		L1	L2		L	R	T|S|O M|A|E		DESCRIPTION
Lighting	585		M 440		1	2				E 1500		Hand dryer
Exterior lighting	200				3	4				E 1500		Hand dryer
Receptacle		1080			5	6				E 1500		Hand dryer
Receptacle		1080			7	8	20			E 1500		WH-1
EH-1			H 2500	30	9	10				E 1500		"
"			H 2500		11	12		240				Lighting
EH-2			H 2500	30	13	14	50			E 4800		Fountain
"			H 2500		15	16				E 4800		"
EH-3			H 1000		17	18						Spare
"			H 1000	20	19	20						Spare
EH-4			H 1000		21	22						Spare
"			H 1000	20	23	24						Spare
Power outlets			E 1800		25	26						Spare
Power outlets			E 1800		27	28						Space
Power outlets			E 1800		29	30						Space
Power outlets			E 1800		31	32						Space
Power outlets			E 1800		33	34						Space
Power outlets			E 1800		35	36						Space
Power outlets			E 1800		37	38						Space
Power outlets			E 1800		39	40						Space
Lighting	600				41	42						Space
TOTAL	1385	2160	M 440 A 0 E 28400		LOADS IN VOLT-AMPERES			240	0	M 0 A 0 E 17100		TOTAL

	CONNECTED	D.F.	DEMAND
LIGHTING	1.6	1.25	2.0
RECEPT. (FIRST 10 KW)	2.2	1.00	2.2
RECEPT. (REMAINDER)	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.4	1.25	0.6
APPLIANCES	0.0	1.00	0.0
EQUIPMENT	31.5	1.00	31.5
HEATING	14.0	1.00	14.0
TRANSFORMER	0.0	1.00	0.0
OTHER	0.0	1.00	0.0
		0.00	0.0
		0.00	0.0
		0.00	0.0
TOTAL	49.7 KVA		50.2 KVA
LOAD	207.2 AMPS		209.3 AMPS
DESIGN			225 AMPS
SPARE			15.7 AMPS

CONNECTED 49.7 KVA
DESIGN 54.0 KVA
DEMAND 50.2 KVA
SPARE 3.8 KVA
CONNECTED
L1 26.2 KVA
L2 23.5 KVA

ALL CIRCUIT BREAKERS ARE 20 AMP, 1 POLE UNLESS NOTED OTHERWISE

L = LIGHTING R = RECEPTACLE M = MOTOR T = TRANSFORMER SP = SPACE
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER SPR = SPARE

NOTES:

LUMINAIRE SCHEDULE

TYPE	LAMPS QTY.	LAMPS CAT. NO.	DESCRIPTION	VOLT	MOUNTING	MANUFACTURER, CAT. NUMBER	REMARKS
F1	2	F32/T8 CW/RS/WM	1' x 4' FLUORESCENT SEALED SURFACE MOUNTED	120	SURFACE CEILING	DAY-BRITE: V2-W-A-T-2-32-UNV-LT	1.
F2	1	F32/T8 CW/RS/WM	1' x 4' FLUORESCENT SEALED SURFACE MOUNTED	120	SURFACE CEILING	DAY-BRITE: V2-W-A-T-1-32-UNV-LT	1.
CF1	1	26W TRT	RECESSED DOWNLIGHT	120	RECESSED CEILING	SPEX: S6-1H26QPL-U-T61H-PL-BZ	1. 2.
CF2	1	42W	SURFACE MOUNTED FLUORESCENT WALL PACK	120	SURFACE MOUNTED	NITE BRITES: WPG-42C-C-12-LP	1. 2.
X1	2	12W 12V	COMBINATION EXIT SIGN AND EMERGENCY UNIT *LED COLOR TO MATCH LOCAL CODE	120	WALL CEILING	LITHONIA LQHM-S-W-1-*-120/277	

NOTES: 1. VERIFY MODEL NUMBERS AND FIXTURE TYPES WITH ARCHITECTURAL AND OWNER.
2. PROVIDE PHOTOCELL TO CONTROL CANOPY LIGHTING.

GENERAL NOTES

1. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS WITH 20% OR LESS TOTAL HARMONIC DISTORTION.
2. CONTRACTOR TO PROVIDE ALL REQUIRED HARDWARES, BRACKETS, LAMPS, TUBES, ETC. FOR A COMPLETE INSTALLATION.
3. ALL LIGHTING FIXTURES SHALL BE PERMANENTLY ATTACHED TO THE CEILING PER N.E.C. 410-16(C).
4. CONTRACTOR TO INSTALL ALL LIGHTING FIXTURES AND DEVICES INCLUDING ANY OWNER-FURNISHED FIXTURES.
5. ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.

MECHANICAL EQUIPMENT SCHEDULE (THIS SHEET)

KEY	DESCRIPTION	LOAD	VOLT-ø	FEEDER	O.C. PROTECTION C.B.	O.C. PROTECTION FUSE	O.C. PROTECTION DISC.	REMARKS
EH-1 & 2	ELECTRIC HEATER	5.0 kW	240-1	(2#10+#10G) 3/4"C	*	--	30A2P NEMA 1	1. 2.
EH-3 & 4	ELECTRIC HEATER	2.0 kW	240-1	(2#12+#12G) 3/4"C	*	--	MOTOR SWITCH	1. 2.
WH-1	WATER HEATER	3.0 kW	240-1	(2#10+#10G) 3/4"C	*	--	30A 2P NEMA 1	1. 2.

NOTES: * SEE PANELBOARD SCHEDULES FOR CIRCUIT BREAKER SIZE
1. DISCONNECT SHALL BE NON-FUSED.
2. VERIFY WITH MANUFACTURER IF DISCONNECT IS NEEDED OR IF UNIT HAS INTERGAL DISCONNECT.

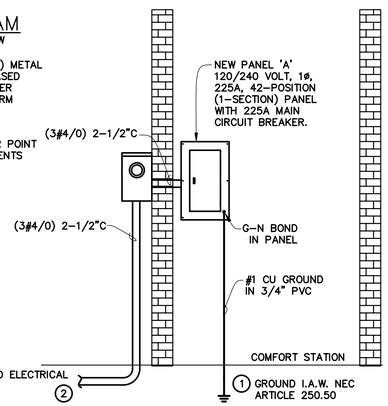
ELECTRICAL AND LIGHTING PLAN NOTES THIS SHEET: ⊗

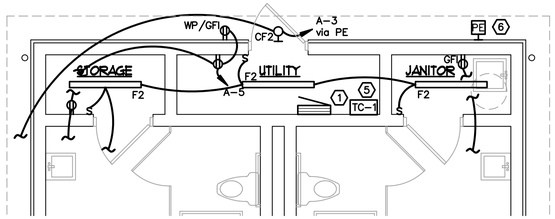
1. PROPOSED LOCATION OF NEW PANEL 'A'. SEE ELECTRICAL RISER DIAGRAM, THIS SHEET AND PANELBOARD SCHEDULE THIS SHEET. VERIFY EXACT LOCATION OF NEW PANEL WITH ARCHITECT AND BUILDING OWNER PRIOR TO ROUGH-IN. MAINTAIN ALL CLEARANCES AS PER NATIONAL ELECTRIC CODE.
2. CIRCUIT EMERGENCY LIGHTS AND EXIT SIGNS AHEAD OF LOCAL SWITCHING FOR CONTINUOUS OPERATION. CIRCUIT WITH SAME CIRCUIT AS GENERAL LIGHTING CIRCUIT IN SAME AREA AS PER N.E.C.
3. ELECTRIC HAND DRYER. COORDINATE EXACT LOCATIONS WITH OWNER. PROVIDE (2#10+#10G) 3/4"C.
4. TORK 2100 SERIES OUTDOOR PHOTOCELL WITH B-BRACKET FOR WALL MOUNTING. MOUNT AT 9' A.F.F. CONNECT TO CONTROL ALL OUTDOOR LIGHT FIXTURES. POINTED IN A NORTHERLY DIRECTION FREE OF ANY OBSTRUCTIONS.
5. TIME CLOCK LOCATION. REFER TO SHEET SE-02 FOR DETAILS.

ELECTRICAL RISER DIAGRAM

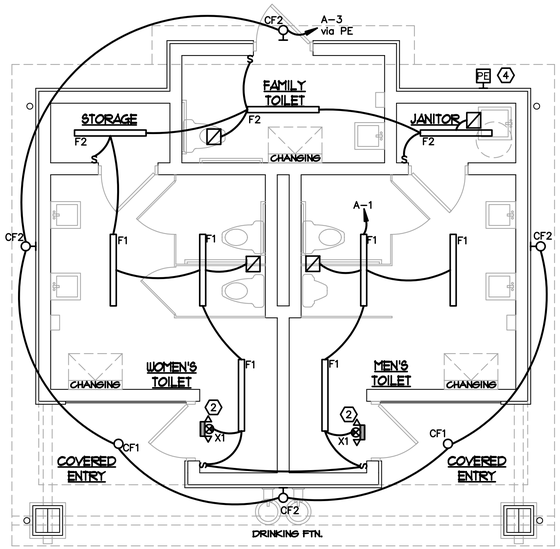
NO SCALE 240/120V, 1ø, 3W

1. ADDITIONAL GROUNDS TO INCLUDE (IF AVAILABLE) METAL WATER PIPING, BUILDING STEEL, CONCRETE-ENCASED ELECTRODE, AND GROUND RING. ALL (WHICH EVER AVAILABLE) SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM I.A.W. NEC ARTICLE 250.50.
2. COORDINATE WITH SITE UTILITY CONTRACTOR FOR POINT OF ELECTRICAL SERVICE. PROVIDE ALL COMPONENTS NECESSARY FOR SERVICE.

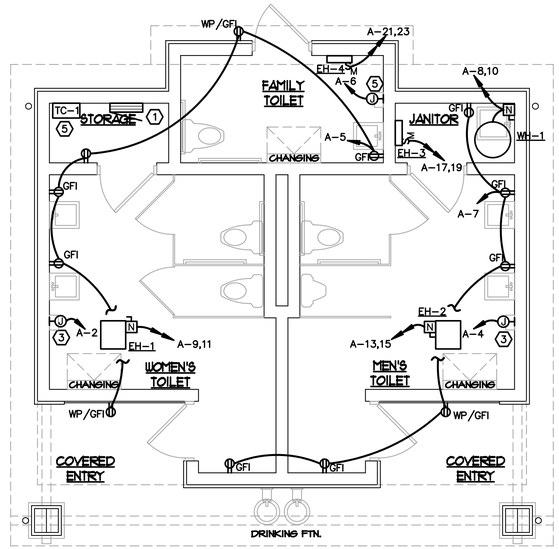




DEDUCT ALTERNATIVE #1
SCALE: 1/4" = 1'-0"



LIGHTING PLAN – LARGE RESTROOM
SCALE: 1/4" = 1'-0"



ELECTRICAL PLAN – LARGE RESTROOM
SCALE: 1/4" = 1'-0"

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No.	REVISIONS	DATE	BY
0	ISSUE FOR BID	01/04/13	WFB

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

ELECTRICAL PLAN:
LARGE RESTROOM

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER 12/19/12 WILLIAM F. BELL

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER
E-2

PANEL " B "

120/ 240 VOLT | 1 PHASE | 3 WIRE SERVICE
100 AMP: MAIN BREAKER [X] LUGS ONLY [ ] MOUNTING : SURFACE [X]
42000 AIC: GROUND BUS [X] NEUTRAL [X] FLUSH [ ]

DESCRIPTION	L	R	T|S|O M|A|E		L1	L2		L	R	T|S|O M|A|E		DESCRIPTION
Lighting	325		M	220	1	2				E	1500	Hand dryer
Exterior lighting	200				3	4				E	1500	Hand dryer
Receptacle		720			5	6						Spare
Receptacle		540			7	8						Spare
Pavilion	500				9	10						Spare
Pavilion		360			11	12						Spare
EH-5			H	1500	13	14	20					Spare
"			H	1500	15	16						Spare
EH-6			H	1500	17	18	20					Spare
"			H	1500	19	20						Spare
WH-2			E	1500	21	22	20					Spare
"			E	1500	23	24						Spare
Lighting	360				25	26						Space
Spare					27	28						Space
Space					29	30						Space
Space					31	32						Space
Space					33	34						Space
Space					35	36						Space
Space					37	38						Space
Space					39	40						Space
Space					41	42						Space
TOTAL	1385	1620	M A E	220 0 9000	LOADS IN VOLT-AMPERES			0	0	M A E	0 0 3000	TOTAL

	CONNECTED	D.F.	DEMAND
LIGHTING	1.4	1.25	1.7
RECEPT. (FIRST 10 KW)	1.6	1.00	1.6
RECEPT. (REMAINDER)	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.2	1.25	0.3
APPLIANCES	0.0	1.00	0.0
EQUIPMENT	6.0	1.00	6.0
HEATING	6.0	1.00	6.0
TRANSFORMER	0.0	1.00	0.0
OTHER	0.0	1.00	0.0
		0.00	0.0
		0.00	0.0
		0.00	0.0
TOTAL	15.2 KVA		15.6 KVA
LOAD	63.4 AMPS		65.1 AMPS
DESIGN			100 AMPS
SPARE			34.9 AMPS

CONNECTED 15.2 KVA
DESIGN 24.0 KVA
DEMAND 15.6 KVA
SPARE 8.4 KVA
CONNECTED
L1 8.1 KVA
L2 7.1 KVA

ALL CIRCUIT BREAKERS ARE 20 AMP, 1 POLE UNLESS NOTED OTHERWISE

L = LIGHTING R = RECEPTACLE M = MOTOR T = TRANSFORMER SP = SPACE
S = SUBFEED E = EQUIPMENT A = APPLIANCE O = OTHER SPR = SPARE

NOTES:

ELECTRICAL AND LIGHTING PLAN NOTES THIS SHEET: (X)

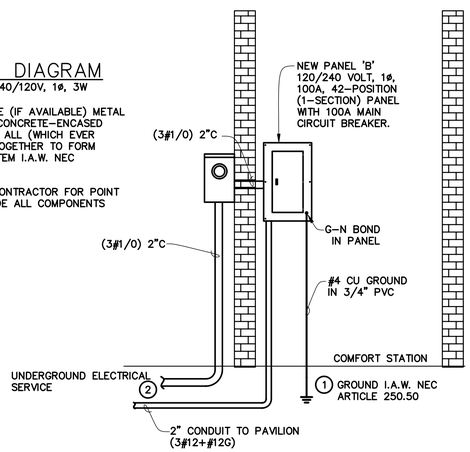
1. PROPOSED LOCATION OF NEW PANEL 'B'. SEE ELECTRICAL RISER DIAGRAM, THIS SHEET AND PANELBOARD SCHEDULE THIS SHEET. VERIFY EXACT LOCATION OF NEW PANEL WITH ARCHITECT AND BUILDING OWNER PRIOR TO ROUGH-IN. MAINTAIN ALL CLEARANCES AS PER NATIONAL ELECTRIC CODE.
2. CIRCUIT EMERGENCY LIGHTS AND EXIT SIGNS AHEAD OF LOCAL SWITCHING FOR CONTINUOUS OPERATION. CIRCUIT WITH SAME CIRCUIT AS GENERAL LIGHTING CIRCUIT IN SAME AREA AS PER N.E.C.
3. ELECTRIC HAND DRYER. COORDINATE EXACT LOCATIONS WITH OWNER. PROVIDE (2#10+#10G) 3/4"C.
4. TORK 2100 SERIES OUTDOOR PHOTOCELL WITH B-BRACKET FOR WALL MOUNTING. MOUNT AT 9' A.F.F. CONNECT TO CONTROL ALL OUTDOOR LIGHT FIXTURES. POINTED IN A NORTHERLY DIRECTION FREE OF ANY OBSTRUCTIONS.
5. TIME CLOCK LOCATION. REFER TO SHEET SE-03 FOR DETAILS.

ELECTRICAL RISER DIAGRAM

NO SCALE 240/120V, 1ø, 3W

(1) ADDITIONAL GROUNDS TO INCLUDE (IF AVAILABLE) METAL WATER PIPING, BUILDING STEEL, CONCRETE-ENCASED ELECTRODE, AND GROUND RING. ALL (WHICH EVER AVAILABLE) SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM I.A.W. NEC ARTICLE 250.50.

(2) COORDINATE WITH SITE UTILITY CONTRACTOR FOR POINT OF ELECTRICAL SERVICE. PROVIDE ALL COMPONENTS NECESSARY FOR SERVICE.



LUMINAIRE SCHEDULE

TYPE	LAMPS QTY.	LAMPS CAT. NO.	DESCRIPTION	VOLT	MOUNTING	MANUFACTURER, CAT. NUMBER	REMARKS
F1	2	F32/T8 CW/RS/WM	1' x 4' FLUORESCENT SEALED SURFACE MOUNTED	120	SURFACE CEILING	DAY-BRITE: V2-W-A-T-2-32-UNV-LT	1.
CF1	1	55W LED	DESIGNER FLOODLIGHT	120	SURFACE MOUNTED	GARDCO: DFL7-W90-HFL-55LA-WW-UNIV-BRP	1. 2.
CF2	1	42W	SURFACE MOUNTED FLUORESCENT WALL PACK	120	SURFACE MOUNTED	NITE BRITES: WPG-42C-C-12-LP	1. 2.
CF3	1	32W TRT	STEM-HUNG PENDANT	120	SURFACE MOUNTED	LURALINE: RS16-32-32TE/O-BLACK	1. 2.

NOTES: 1. VERIFY MODEL NUMBERS AND FIXTURE TYPES WITH ARCHITECTURAL AND OWNER.
2. PROVIDE PHOTOCELL TO CONTROL CANOPY LIGHTING.

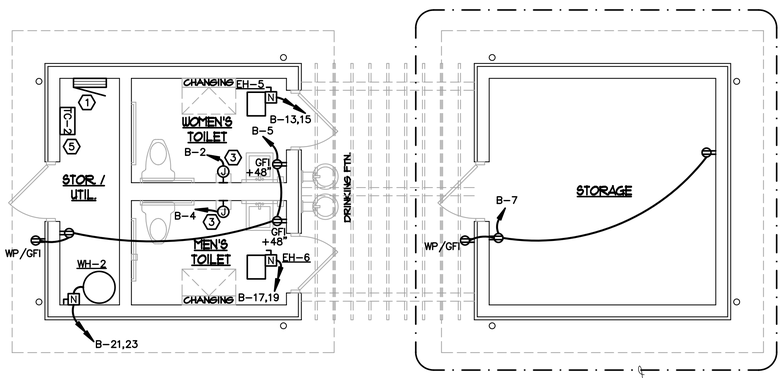
GENERAL NOTES

1. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS WITH 20% OR LESS TOTAL HARMONIC DISTORTION.
2. CONTRACTOR TO PROVIDE ALL REQUIRED HARDWARES, BRACKETS, LAMPS, TUBES, ETC. FOR A COMPLETE INSTALLATION.
3. ALL LIGHTING FIXTURES SHALL BE PERMANENTLY ATTACHED TO THE CEILING PER N.E.C. 410-16(C).
4. CONTRACTOR TO INSTALL ALL LIGHTING FIXTURES AND DEVICES INCLUDING ANY OWNER-FURNISHED FIXTURES.
5. ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.

MECHANICAL EQUIPMENT SCHEDULE (THIS SHEET)

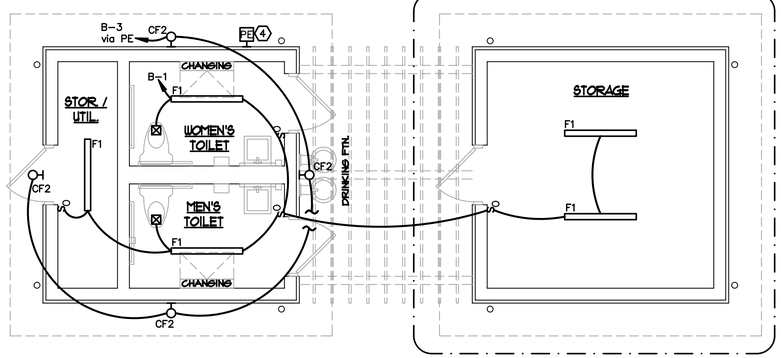
KEY	DESCRIPTION	LOAD	VOLT-ø	FEEDER	O.C. PROTECTION C.B.	O.C. PROTECTION FUSE	O.C. PROTECTION DISC.	REMARKS
EH-5 & 6	ELECTRIC HEATERS	3.0 kW	240-1	(2#12+#12G) 3/4"C	*	--	30A2P NEMA 1	1. 2.
WH-2	WATER HEATER	3.0 kW	240-1	(2#12,#12G) 3/4"C	*	--	30A 2P NEMA 1	1. 2.

NOTES: * SEE PANELBOARD SCHEDULES FOR CIRCUIT BREAKER SIZE
1. DISCONNECT SHALL BE NON-FUSED.
2. VERIFY WITH MANUFACTURER IF DISCONNECT IS NEEDED OR IF UNIT HAS INTERGAL DISCONNECT.

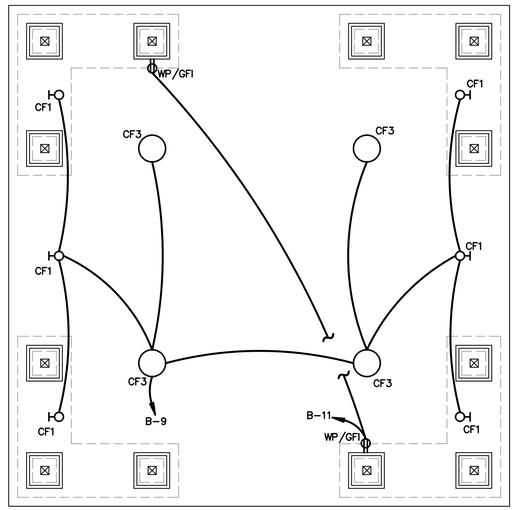


ELECTRICAL PLAN - SMALL RESTROOM
SCALE: 1/4" = 1'-0"

DEDUCT ALTERNATIVE #2



LIGHTING PLAN - SMALL RESTROOM
SCALE: 1/4" = 1'-0"



ELECTRICAL PLAN - PAVILION
SCALE: 1/4" = 1'-0"

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No.	REVISIONS	DATE	BY
0	ISSUE FOR BID	01/04/13	WFB

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

ELECTRICAL PLAN:
PAVILION AND SMALL RESTROOM

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER 12/17/12 WILLIAM F. BELL

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER
E-3

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CS3356
6/14/2013

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ELECTRICAL SPECIFICATIONS
SECTION 16000

PART 1 GENERAL

1.1 CODES AND REQUIREMENTS

A. All electrical work shall comply with the requirements of the applicable edition of the National Electrical Code, Local Building Code and as specified herein whichever is more strict.

B. The contractor shall comply with the requirements of the General Conditions, Supplemental General Conditions of the project specifications, all Contract Documents, and any base building specifications and building criteria included in this project.

C. Visit the premises before submitting bid as no extras will be allowed for lack of knowledge of existing conditions.

D. Drawings are diagrammatic in nature. Take all dimensions from Architectural drawings, certified equipment drawings, and from the structure itself before fabricating any work.

E. The drawings indicate the location, type and sizes of various utilities within the site where known. Any relocation or remodeling required must be approved by the Architect before proceeding. Investigate all utilities such as electric and telephone and make arrangements with the proper authority to pay for any charges associated with connecting those utilities. Pay for all permits, fees, inspections etc.

F. Good workmanship and appearance are considered equal to proper operation.

G. Provide all core drilling, channeling, cutting, patching, trenching and backfill as required for installation of electrical equipment. Seal holes, fireproofing where necessary, and refinish all repair work to original condition where damaged by electrical work.

H. Make provisions for safe delivery and secure storage of all materials.

I. Provide the Architect with a complete set of plans and specifications corrected to as-built conditions at the completion of the job.

1.2 WARRANTY
The electrical contractor shall provide for the owner a one-year (from the date of final acceptance) warranty of all electrical equipment and systems provided under this contract except for incandescent or fluorescent lamps. All defective equipment or materials which appear during the warranty period shall be replaced or repaired by the electrical contractor in a timely fashion.

PART 2 PRODUCTS

2.1 EQUIPMENT

A. The contractor shall provide all equipment, accessories necessary whether specifically stated or not to make the required electrical systems complete and operational.

B. All equipment provided shall be new except as otherwise stated on the drawings. All equipment provided shall be U.L. listed when such standards exist for the type of equipment furnished and acceptable for installation by the Local Building Authority.

2.2 CONDUCTORS

A. Minimum size #12 AWG except for control circuits which may be #14 or signal circuits which shall be as indicated. All conductors shall be copper. Increase conductor size as necessary to limit branch circuit voltage drop to 3% and feeder voltage drop to 2%.

B. Splices for #8 and smaller conductors – wire or wing nuts.

C. Feeders and other wiring No. 4 AWG and larger, type THWN.

D. Other wiring No. 6 and smaller, type THWN.

E. Wiring in high temperature areas shall be rated 105° C and be a type accepted by local code.

F. Color Coding: Wiring for control systems to be installed in conjunction with mechanical and miscellaneous equipment shall be color coded in accordance with the wiring diagrams furnished with the equipment. Branch circuit wiring, including circuits to motors, and all feeders shall be coded by line or phase as follows:

Wire No. 2 AWG and smaller shall be factory color coded. Wire No. 1 AWG and larger may be color coded by field painting or color taping of six inch (6") length of exposed ends.

120/208 Volts	277/480 Volts
A = Black	A = Brown
B = Red	B = Orange
C = Blue	C = Yellow
Neutral = White	Neutral = Gray
Ground = Green	Ground = Green w/yellow stripes
Switch Travelers = Pink	Switch Travelers = Purple

2.3 OUTLETS

A. 4" square or octagonal, zinc coated sheet steel boxes.

B. Provide 3/8" no-bolt fixture studs.

C. Provide covers set to come flush with finish walls.

D. Utility or sectional switch boxes only where permitted.

2.4 DEVICES

A. All devices colors shall be selected by architect.
1. Specification grade receptacles, Hubbell 5262-*.
2. A.C. quiet operating type switches equal to Hubbell, rated 20A, 277V.

B. Device plates shall be nylon, color to match devices.

C. Mount devices in accordance with the following schedule except where otherwise noted on the drawings:
1. Convenience Receptacles – Long Axis Vertical 1'6" A.F.F.*
2. Light Switches – Latch Side of Door 4'0" A.F.F.
3. Telephone Outlets 1'6" A.F.F.*
* Except in areas with counters, baseboard heaters or in areas of block or brick construction.

2.5 LIGHTING FIXTURES

A. Provide all new lighting fixtures complete with lamps, ballasts, reflectors, plaster frames, louvers, stem hangers, etc., and as described on the drawings.

B. All ballasts shall be internally protected by use of two internal, temperature-sensitive, non-resetting protectors, equal to G.E. Watt-Miser, Class "P".

C. Exit lights shall conform with local code requirements.

D. Mount all outlets at position and height to clear ducts, etc.

E. Acrylic lenses shall be 100% virgin materials and 0.125 inch thick minimum unpenetrated thickness shall be 0.035 inch.

2.6 BRANCH CIRCUIT PANELBOARDS

A. Provide dead-front, circuit breaker type panels, with the size and number of branches indicated. Breakers shall be thermal magnetic type employing quick-make and quick-break mechanisms for manual operation as well as automatic operation. Automatic tripping shall be indicated by the breaker handle assuming a distinctive position from the manual "on" and "off". Multiple breakers shall have a common trip. Tie handles will not be permitted.

B. Panelboards having branch circuit breaker sizes 15 to 100 amperes shall be:
1. General Electric "AQ" for operation on 120/208V. systems.
2. General Electric "AE" for operation on 277/480V. systems.

C. Panelboards may contain two (2) subfeed breakers having a rating in excess of 100 amperes, but less than 225 amperes.

D. Panelboards having more than two (2) branch circuit breakers rated in excess of 100 amperes shall be General Electric "CCB".

E. All spaces shall be fully equipped.

F. Panelboards shall have a grounding lug for the equipment grounding system.

G. Circuit breakers shall have a minimum interrupting capacity as follows:

120/208 volts: 22,000 amperes.
In addition, upstream fuses shall be selected to provide a series rating of 100,000 amperes with downstream circuit breakers.

H. Panelboards shall be a minimum twenty inches (20") wide (box).

I. All buses shall be copper.

J. The above panelboard designations are General Electric; however provide any of the following equipment, or as accepted:

120/208V 277/480VSub-distribution type
Cutler Hammer CHB NFB MP-40
General Electric AQ AE CCB
I.T.E. CDP-7 CDP-7 CDP-6
Square-D NQOB NEHB I-Line
Westinghouse WEB WEHB CDP

2.7 SAFETY AND DISCONNECT SWITCHES
Provide enclosed, fusible or non-fusible safety switches where indicated and herein specified. Safety switches shall bear the UL label and each enclosure shall be the NEMA type suitable for the surrounding area and conditions (Ex. Nema 1 – Indoor, Nema 3R – Outdoor). Switches shall be minimum heavy duty, horsepower rated, and shall have quick-make and quick-break mechanisms. Switches used on motor circuits shall have adequate horsepower ratings for the motors served.

1. Safety switches employed as motor disconnect devices for two (2) or more loads shall be of the fusible type for rejection type fuses.

2. Heavy duty industrial type safety switches shall be used for 480 volt application and shall be horsepower rated with quick-make, quick-break mechanisms and interlocked covers.

3. Switches shall be as manufactured by Cutler-Hammer, General Electric, Square-D, Westinghouse, or as accepted, and all switches provided shall be by the same manufacturer.

2.8 FUSES

A. Fuses shall be as manufactured by Bussmann unless noted otherwise on the drawings.

B. Fuses for application at under 600 volts, and rated at 600 amps or less, shall be as follows:
1. For all fuses in the main service, equipment, except for motor circuits, provide current limiting, 200,000 rms amperes symmetrical interrupting capacity, rejection type, Bussmann Limitron or as accepted.

2. For all other fuses, provide rejection type with 200,000 rms amperes symmetrical interrupting capacity, Bussmann "Fusetron", or as accepted.

C. Control Fuses shall be Bussmann one-time nonrenewable fuses.

2.9 DRY TYPE TRANSFORMERS (IF APPLICABLE)

A. ACCEPTABLE MANUFACTURERS
1. Square D

2. GE – Type QL

3. Cutler-Hammer – CX6

4. Alternate manufacturers may be acceptable when submitted according to Division 0 or Division 1.

B. Dry Type Transformers: ANSI/NEMA ST 20; factory-assembled, air cooled dry type transformers; ratings as shown on the Drawings.

C. Insulation system and average winding temperature rise for rated KVA as follows:

Rating	Class	Rise (degree C)
1 – 15	185	115
16 – 500	220	115

D. Case temperature shall not exceed 35 degrees C rise above ambient at its warmest point.

E. Winding Taps, Transformers Less than 15 KVA: Two 5% below rated voltage, full capacity taps on primary winding.

F. Winding Taps, Transformers 15 KVA and Larger: ANSI/NEMA ST 20.

G. Sound Level: ANSI/NEMA ST 20.

H. Basic Impulse Level: 10 KV for transformers less than 300 KVA, 30 KV for transformers 300 KVA and larger.

I. Ground core and coil assembly to enclosure by means of a visible flexible copper grounding strap.

J. Mounting: Transformers 75 KVA and less shall be suitable for wall, floor or trapeze mounting; transformers larger than 75 KVA shall be suitable for floor or trapeze mounting.

K. Coil Conductors: Continuous winding with termination's brazed or welded.

L. Enclosure: ANSI/NEMA ST 20; Type 1 for indoor application, Type 3R for outdoor or wet location application. Provide lifting eyes or brackets.

M. Isolate core and coil from enclosure using vibration-absorbing mounts.

N. Nameplates: Include transformer connection data and overload capacity based on rated allowable temperature rise.

PART 3 EXECUTION

3.1 CONDUIT/RACEWAYS

A. All conductors shall be enclosed by conduit sized in accordance with Table 3C of the National Electrical Code. Minimum 1/2" except for factory furnished lighting fixture flexible conduit may be 3/8". Follow the following schedule unless otherwise specified in the drawings. Exception: cable assemblies such as MC type cable may be used where allowed by NEC.
1. Rigid metal conduit (RMC) and intermediate metal conduit (IMC) shall be utilized for above and below grade applications in accordance with articles 344 AND 342 of the National Electrical Code. All couplings shall be threaded.

2. Rigid nonmetallic conduit (PVC) Schedule 40 shall be permitted for below grade or concrete cast in place applications above grade. All elbow transitions to above grade or stub-out of floor slab shall be asphalt coated rigid conduit. Provide equipment grounding conductor for all runs of rigid nonmetallic conduit.

3. Electrical metallic tubing (EMT) shall be utilized for all dry, above grade or above floor applications in accordance with article 358 of the National Electrical Code. Couplings shall be steel compression type made up wrench-tight.

4. Flexible metal conduit shall be utilized for all connections to vibrating equipment such as motors (minimum of 2'-0" – maximum of 6'-0"), connection to lay-in type light fixtures or in remodel areas specifically noted for "fishing" in existing walls or non-accessible ceilings.

5. Surface metallic raceways shall be used only in areas specifically noted and of size and type specified on the drawings.

B. All exposed conduit (including conduit installed in ceiling plenums) shall be routed parallel or perpendicular with the building walls. Support conduit as required by the National Electrical Code.

C. Provide expansion type fittings for all conduits which cross expansion joints.

3.2 GROUNDING

1. Service equipment, conduit systems, supports, cabinets, equipment, transformers, fixtures, the grounded circuit conductor, etc., shall be properly grounded in accordance with the latest issue of the National Electrical Code. Provide all bonding jumpers and wire, grounding bushings, clamps, etc., as required for complete grounding. Route ground conductors to provide the shortest and most direct path to the ground electrode system. Ground connections shall have clean contact surfaces, tinned and sweated while bolting. Install all ground conductors in conduit. Make readily accessible connections to a continuous, metallic, underground cold water piping system at the point where it enters the building. If this is not practicable, connect to a cold water pipe and provide a meter jumper. Make connections to the water pipe that grounds the conduit enclosing the conductor as well as the conductor. Bond the service equipment to a separate grounding electrode per Code requirements.

3.3 PANELBOARDS

1. Install panelboards with the top of the trim six-feet, three-inches (6'-3") from the finished floor.

2. Field check all panelboard loading and reconnect circuits as required to provide balanced phase and line loads.

3.4 MECHANICAL EQUIPMENT WIRING AND CONNECTIONS

1. Mechanical equipment motors and controls furnished with mechanical equipment.

2. Provide feeder circuits to mechanical equipment and make all connections.

3. Provide safety switches and/or thermal overload switches as required.

4. Provide all power (line voltage) wiring for mechanical equipment and make all connections except for temperature control equipment, which will be wired by mechanical contractor.

5. Furnish, set in place, and wire, except as indicated, all heating, ventilating, air conditioning, plumbing, fire protection, motors and controls in accordance with the following schedule. Carefully coordinate with work performed under the Mechanical Division of these specifications.

6. Heater units in all motor starters shall be sized for approximately one hundred fifteen percent (115%) of full load motor current. Check and coordinate all thermal protective devices with the equipment they protect.

a) Provide for each motor, one-half (1/2) horsepower and below, a horsepower rated disconnect switch and thermal overload protection unless integrally provided with the motor. Thermal overload switches for single phase motors shall be Allen-Bradley Bulletin 600 or acceptable. Size heater units for approximately one hundred fifteen percent (115%) of full load motor current.

b) Miscellaneous Equipment: Where outlets are indicated for miscellaneous equipment requiring electric power or control, provide wire, conduit, etc., and make all connections, unless otherwise indicated. Refer to the Mechanical Specifications and Plans covering sprinkler systems, motor interlocks, switching, etc. Provide wiring, conduit, outlets and provide final electrical connections to all equipment.

3.6 DRY TYPE TRANSFORMER INSTALLATION

1. Set transformer plumb and level, on 4 in. high concrete housekeeping pad for floor mounted units, on strut assemblies for wall or ceiling mounted units.

2. Use flexible conduit 2 ft minimum length, for connections to transformer case. Make conduit connections to side panel of enclosure.

3. Mount transformers on vibration isolation pads suitable for isolating the transformer noise from the building structure.

4. Provide seismic restraints.

5. Install nameplate.

3.7 TELEPHONE SYSTEM

A. Provide conduits and outlets as indicated. Provide #14 AWG pull wire for all empty conduit.

B. Outlets shall consist of 4" square box with bushed opening in plate. Plates shall match finish of other plates.

3.8 SPECIAL SYSTEMS

1. Provide all special systems as specified on the drawings including all required accessories to make the system complete and operational. All special systems shall be installed and connected in accordance with the manufacturer's specifications. Provide instructional demonstration for the owner prior to final acceptance.

END OF SECTION

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No.	REVISIONS	DATE	BY
0	ISSUE FOR BID	01/04/13	WFB

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

ELECTRICAL
SPECIFICATIONS

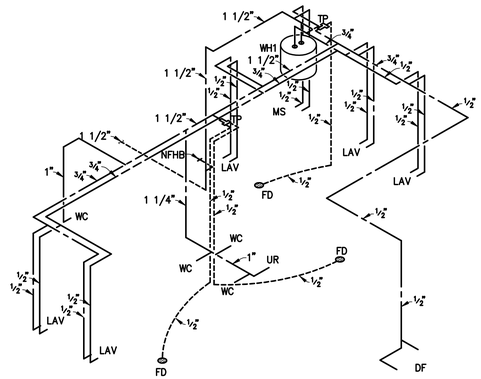
DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED PROFESSIONAL ENGINEER 12/17/12 WILLIAM F. BELL

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	KDL
DRAWN BY:	DAB
CHECKED BY:	CK
DATE:	18 Dec 2012

KHA PROJECT NO.: 019124002

SHEET NUMBER
E-4



3 P0.1 PLUMBING SUPPLY RISER DIAGRAM - BASE BID
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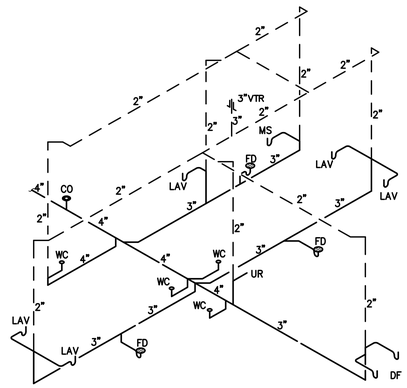

1 P0.1 WASTE AND VENT RISER DIAGRAM - BASE BID
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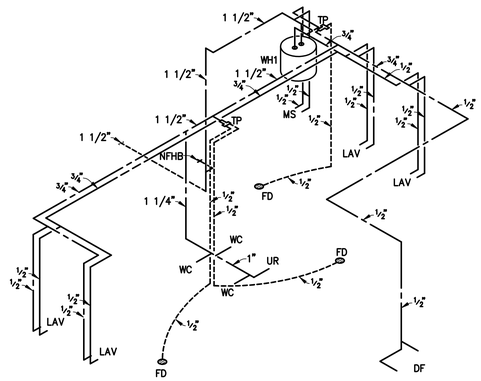

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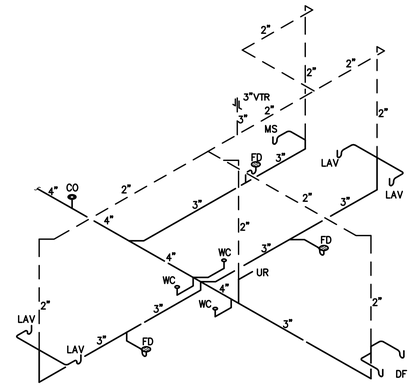

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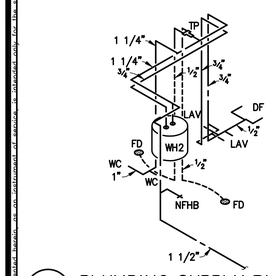

6 P0.1 PLUMBING SUPPLY RISER DIAGRAM
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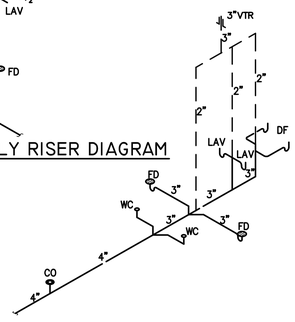

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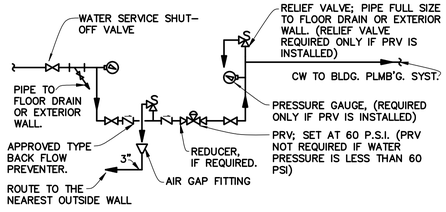

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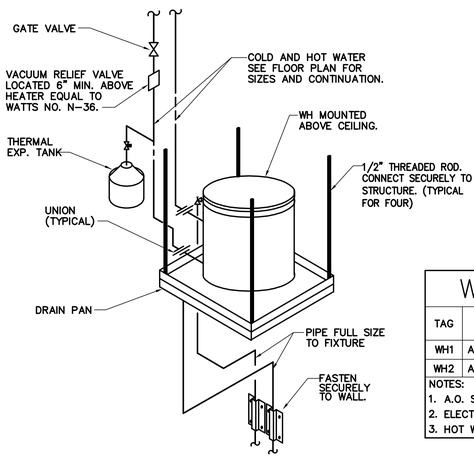

WATER HEATER DETAIL
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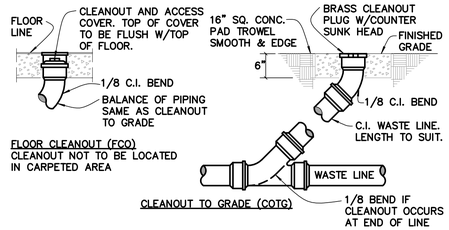

CLEANOUT DETAILS
NO SCALE

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION.
3. CONTRACTOR TO VERIFY LOCATIONS OF ALL UTILITIES ON SITE.
4. CONTRACTOR IS TO PROVIDE COMPLETE CONNECTIONS TO OWNER FURNISHED EQUIPMENT.
5. CONTRACTOR TO COORDINATE THE LOCATION OF ALL CEILING DEVICES WITH REFLECTED CEILING PLAN AND STRUCTURE PRIOR TO BEGINNING WORK.
6. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
7. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
8. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.

FIXTURE UNIT SCHEDULE

FIXTURE TYPE	MINIMUM CONNECTION SIZE CW	HW	W	REMARKS	NOTES
WATER CLOSET (ADA)	1"	–	4"	18" SEAT HEIGHT	1
WATER CLOSET	1"	–	4"	–	–
LAVATORY (ADA)	1/2"	1/2"	1–1/4"	–	1, 2, 3
DRINKING FOUNTAIN	1/2"	–	1–1/4"	–	1, 2, 3
MOP SINK	1/2"	1/2"	2"	–	1, 2, 3

NOTES:
1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH A.D.A. REQUIREMENTS.
2. SEE ARCHITECTURAL DRAWINGS FOR HEIGHT OF COUNTERTOP.
3. MAXIMUM HOT WATER SUPPLY TEMP.=110°F.

PLUMBING LEGEND

GATE VALVE	CW — COLD WATER
PLUG OR BALANCING VALVE	HW — HOT WATER
SAFETY RELIEF VALVE	HWC — HOT WATER CIRCULATING
BALL VALVE	CA — COMPRESSED AIR
PRESSURE REDUCING VALVE	VAC — VACUUM
TEMPERATURE CONTROL VALVE, 2-WAY	FCW — FILTERED COLD WATER
PIPE CAP	G — GAS
(CO) PIPE CLEANOUT	V — PLUMBING VENT PIPE
(WCO) WALL CLEANOUT	W — WASTE PIPE
(FCO) FLOOR CLEANOUT	D — DRAIN
FLOOR DRAIN WITH TRAP PRIMER	POINT OF PIPE CONNECTION NEW TO EXISTING

NOTE
ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED ON THIS PROJECT.

ABBREVIATIONS

A/C	ABOVE CEILING	COND.	CONDENSATE
AFF	ABOVE FINISH FLOOR	CW	COLD WATER
AD	AREA DRAIN	DP	DRAIN PIPE
B/F	BELOW FLOOR	NG	NATURAL GAS
B/G	BELOW GRADE	SAN	SANITARY DRAINAGE PIPE
B/S	BELOW SLAB	GV	GATE VALVE
BV	BALANCING VALVE	VS	VENT STACK

PLUMBING SPECIFICATIONS:

1.01 WATER PIPING
A. PIPING (INSIDE BUILDING)
1. NON-BURIED LINES, TYPE "L" COPPER WATER TUBE, WROUGHT COPPER FITTINGS AND 96-4 (TIN/SILVER) OR CANFIELD 100% WATERSAFE (SILVER-TIN COPPER) SOLDER.

2. VALVES AND SPECIALTIES
GATE VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
BALL VALVES: BRONZE, FULL PORT, 400 LB. W.O.G.
GLOBE VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
SWING CHECK VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
DIELECTRIC UNIONS: FURNISH AND INSTALL A DIELECTRIC UNION AT ALL CONNECTIONS WHERE FERROUS MATERIAL IS CONNECTED TO NON-FERROUS MATERIAL.
STRAINERS: 250 LB. SEMI-STEEL OR CAST IRON "Y" TYPE W/STAINLESS STEEL SCREEN.
PRESSURE TEMP. TAPS: UNIVERSAL CONTROLS CORPORATION #45-PT-N.SISCO BN0-500 1/2 NPT, NORDEL CORE.

1.02 WASTE AND VENT PIPING
A. MATERIALS; WASTE AND VENT PIPING (INSIDE BUILDING)
1. WASTE LINES ABOVE GROUND; STD. WT., C.I. SOIL PIPE AND FITTINGS OR HUBLESS, C.I. SOIL PIPE AND FITTINGS. UP THRU 2-1/2" MAY BE STD. WTG., GALV. STEEL PIPE W/BLACK, C.I. DRAINAGE FITTINGS.

2. VENT LINES ABOVE GROUND; STD. WT., C.I. SOIL PIPE AND FITTINGS, HUBLESS C.I. SOIL PIPE AND FITTING OR, STD. WT., GALV. STEEL PIPE W/150 LB., GALV. MALL. IRON FITTINGS FOR LINES 1-1/2" AND OVER, FOR LINES 1-1/4" AND LESS, BLACK, C.I. 125 LB. SWP FITTINGS.

3. ALL WASTE AND VENT PIPING ABOVE GRADE MAY BE DWV COPPER PIPE AND FITTINGS USING SOLDER SPECIFIED ABOVE FOR WATER PIPING.

4. WASTE AND VENT PIPING MAY BE PVC DWV PIPE WITH SOLVENT WELD DWV FITTINGS IF ACCEPTABLE TO THE PLUMBING INSPECTION AUTHORITY. PROVIDE WRITTEN CONFIRMATION OF LOCAL AUTHORITY ACCEPTANCE PRIOR TO INSTALLING NEW WORK. PVC PIPING INSTALLATION SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR COUPLING PREPARATION AND INSTALLATION CONDITIONS.

1.03 FIXTURES AND EQUIPMENT
A. FIXTURES
1. INSTALL FIXTURES AND/OR ROUGH-IN ACCORDING TO THE SPECIFICATIONS.

2. SECURE FIXTURES TO WALLS AND FLOOR OR COUNTERTOPS IN ACCORDANCE WITH MANUFACTURER'S ROUGHING-IN AND SETTING REQUIREMENTS AND FORM A RIGID INSTALLATION.

3. ALL PIPE AT THE FIXTURES WHICH MAY BE EXPOSED TO VIEW SHALL BE BRASS CHROME FINISH, FINISHED WITH CHROME ESCUTCHEONS WHERE THEY PROJECT FROM WALLS AND FLOORS.

4. STOP VALVES SHALL BE FURNISHED AND INSTALLED AT ALL FIXTURES, FOR ALL EQUIPMENT AND AT ROUGH-IN LOCATIONS.

1.04 SPECIALTY SCHEDULE
A. DIELECTRIC UNIONS OR COUPLINGS AND FLANGES
UNION RATED FOR 250 PSI WITH GALVANIZED OR PLATED STEEL THREADED AND, COPPER SOLDER END AND IMPERVIOUS ISOLATION GASKET APPROVED FOR USE ON GAS LINES. COUPLINGS APPROVED FOR USE ON GAS LINES AND ABLE TO WITHSTAND HYDROSTATIC TEST PRESSURES OF 1000 PSI AT 250°F WITH AN INERT, NONCONDUCTIVE LAMINATE MATERIAL AND THREADED TO NPS STANDARDS. FLANGES TO BE COMPLETE WITH INSULATED BOLT SHEAVES, WASHERS AND GASKETS.

WATER HEATER SCHEDULE

TAG	MAKE	MODEL	TYPE	CAPACITY (GALLONS)	MIN. RECOVERY (GPH@100°F)	ELECTRICAL DATA VOLT.	PH.	KW	DIMENSIONS DIA.	HEIGHT	NOTES
WH1	A.O. SMITH	DEL-10	ELECTRIC	10	12	240	1	3	18"	18.25"	1, 2, 3
WH2	A.O. SMITH	DEL-10	ELECTRIC	10	12	240	1	3	18"	18.25"	1, 2, 3

NOTES:
1. A.O. SMITH OR APPROVED EQUAL.
2. ELECTRICAL CHARACTERISTICS TO BE COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
3. HOT WATER THERMOSTAT SETPOINT @ 105°F.

KACENA DESIGN

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No.	REVISIONS	DATE	BY
0	ISSUED FOR BID	01/04/13	BGD

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

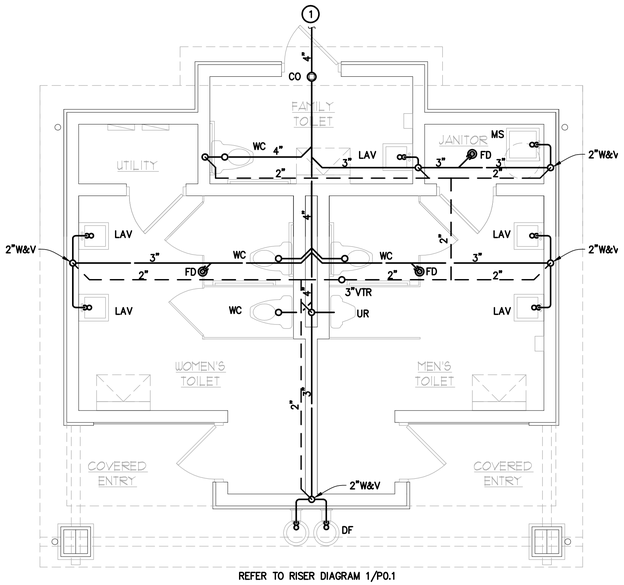
PLUMBING LEGEND, SCHEDULES, DETAILS AND SPECIFICATIONS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED No. 13763 PROFESSIONAL ENGINEER BRUCE G. DUFF

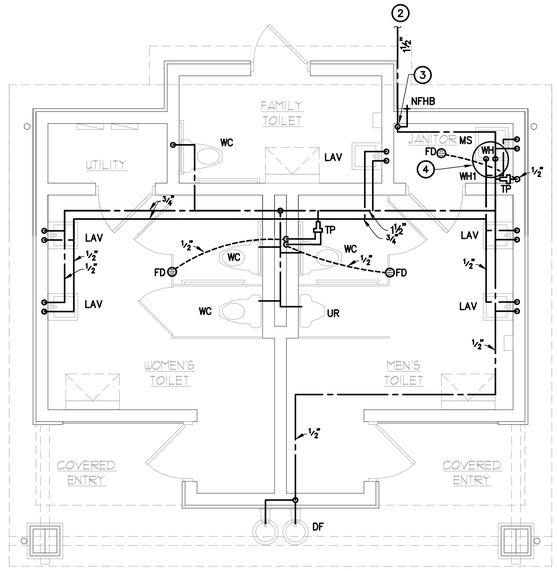
SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	BGD
DRAWN BY:	WDG
CHECKED BY:	BGD
DATE:	4 Jan 2013
KHA PROJECT NO.:	019124002

SHEET NUMBER
P0.1



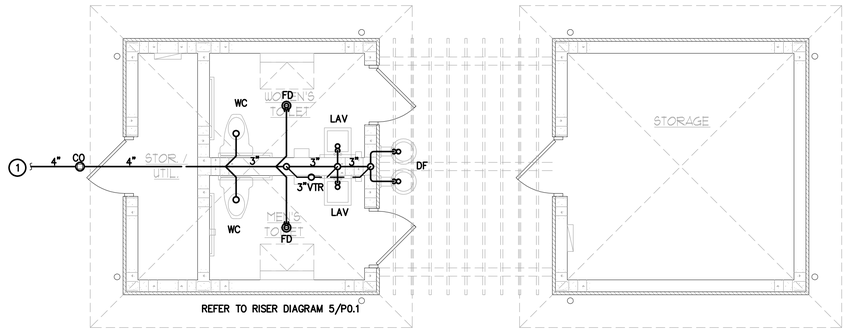
REFER TO RISER DIAGRAM 1/P0.1

1 P1.1 TOILET BLDG - BASE BID
PLUMBING WASTE AND VENT PLAN
SCALE: 1/4" = 1'-0"



REFER TO RISER DIAGRAM 3/P0.1

3 P1.1 TOILET BLDG - BASE BID
PLUMBING SUPPLY PLAN
SCALE: 1/4" = 1'-0"

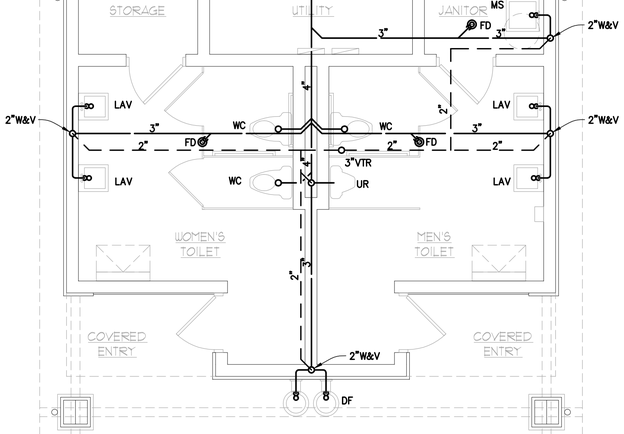


REFER TO RISER DIAGRAM 5/P0.1

TRELLIS CONNECTOR (DEDUCT OPTION)

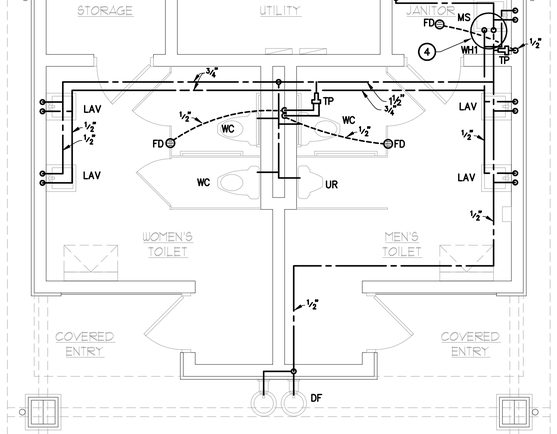
STORAGE BUILDING (DEDUCT OPTION)

5 P1.1 SMALL RESTROOM BLDG
PLUMBING WASTE AND VENT PLAN
SCALE: 1/4" = 1'-0"



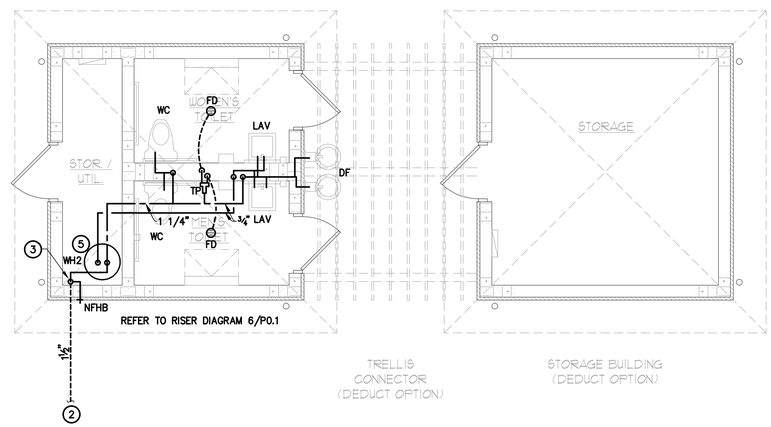
REFER TO RISER DIAGRAM 2/P0.1

2 P1.1 TOILET BLDG - DECUCTIVE ALTERNATE #1
PLUMBING WASTE AND VENT PLAN
SCALE: 1/4" = 1'-0"



REFER TO RISER DIAGRAM 4/P0.1

4 P1.1 TOILET BLDG - DEDUCTIVE ALTERNATE #1
PLUMBING SUPPLY PLAN
SCALE: 1/4" = 1'-0"



REFER TO RISER DIAGRAM 6/P0.1

TRELLIS CONNECTOR (DEDUCT OPTION)

STORAGE BUILDING (DEDUCT OPTION)

6 P1.1 SMALL RESTROOM BLDG
PLUMBING SUPPLY PLAN
SCALE: 1/4" = 1'-0"

FLAG NOTES:

1. COORDINATE FINAL SANITARY DRAIN LINE INVERT ELEVATIONS WITH CIVIL SITE PLANS.
2. COORDINATE WATER SERVICE LINE WITH CIVIL SITE PLANS.
3. CONTRACTOR TO PROVIDE SHUT-OFF VALVE, PRESSURE REDUCING VALVE AND RPZ BACKFLOW PREVENTER AS REQUIRED.
4. WATER HEATER LOCATED IN JANITORS' CLOSET, CONTRACTOR TO VERIFY PLUMBING REQUIREMENTS.
5. WATER HEATER LOCATED IN UTILITY ROOM, CONTRACTOR TO VERIFY PLUMBING REQUIREMENTS.

GENERAL NOTES:

1. PROVIDE SHUT-OFF VALVES ABOVE ACCESSIBLE CEILING SPACE ON ALL BRANCH LINES AND PRIOR TO DROPS BELOW FLOOR, TYPICAL.
2. REFER TO OTHER DRAWINGS FOR DETAILED EQUIPMENT CONNECTIONS, FIXTURE SCHEDULE, ETC.
3. ALL FIXTURES SHOWN SHALL BE FURNISHED UNDER THIS CONTRACT, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. PROVIDE TRAP PRIMERS ON FLOOR DRAINS AS REQUIRED BY CODE.
5. COORDINATE LOCATIONS OF FIXTURES, FLOOR DRAINS, AND CLEANOUTS WITH ARCHITECTURAL FLOOR PLAN.

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KACENA DESIGN

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Fax: (404) 419-8701

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No.	REVISIONS	DATE	BY
0	ISSUED FOR BID	01/04/13	BGD

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

PLUMBING
PART PLANS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED No. 13783 PROFESSIONAL ENGINEER BRUCE G. DUFF

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	BGD
DRAWN BY:	WDG
CHECKED BY:	BGD
DATE:	4 Jan 2013

KHA PROJECT NO.: 019124002

SHEET NUMBER
P1.1

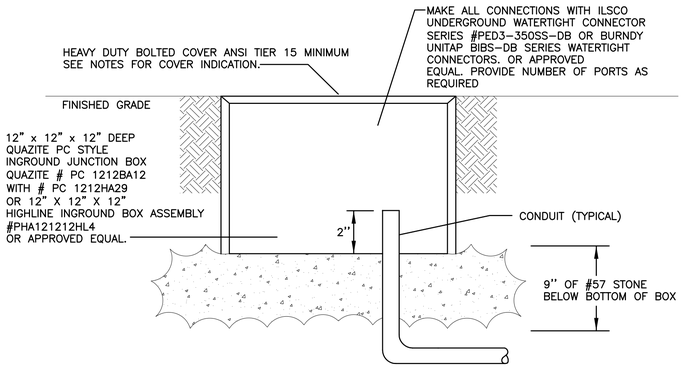
LEGEND

- CONCEALED CONDUIT. SEE NOTE BELOW
- EXPOSED CONDUIT. SEE NOTE BELOW
- UNDERGROUND CONDUIT. SEE NOTE BELOW.
- 20AMP 125V. STRAIGHT BLADE 3 WIRE GROUNDING DUPLEX OUTLET. NUMBER INDICATES CIRCUIT.
  WP – INDICATES WEATHERPROOF
  GFCI – GROUND FAULT CIRCUIT INTERRUPTER
- A — LIGHT FIXTURE, CAPITAL LETTER INDICATES TYPE
- J — J–BOX WITH BLANK COVER, UNLESS OTHERWISE NOTED.
- PANELBOARD.
- T — TRANSFORMER.
- TFROC — TYPICAL FOR REMAINDER OF CIRCUIT.

NOTE: HASH MARKS INDICATE NUMBER OF #12 CU. HOT CONDUCTORS, #12 CU. NEUTRAL CONDUCTOR, RESPECTIVELY. GROUND CONDUCTOR NOT SHOWN. NO HASH MARKS INDICATE 3#12 CU. CONDUCTORS (A HOT, NEUTRAL AND GROUND), UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM.

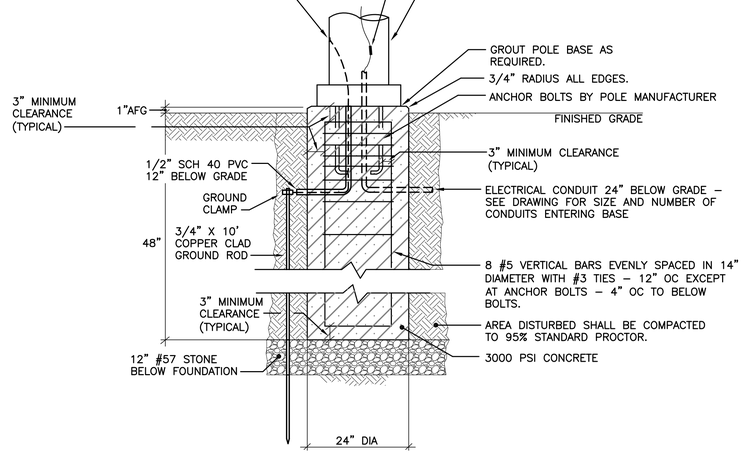
LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & CATALOG NUMBER	MOUNTING	NO./LAMPS	LOAD
B	TREE UP LIGHT LUMIERE BOCA #696–10LED3021–120/12–CS–LBB	GROUND	10W LED– INCLUDED	10W
C	STEP LIGHT BEGA–US #2382–LED–SLV	RECESSED	5.6 LED INCLUDED	7.5W
D	PEDESTRIAN LED LIGHT COOPER #ARC050LEDEU551332GN WITH HAPCO POLE #Y7C12C5–TF–16–3"TENON–BV	12' POLE	58W LED INCLUDED	58W
F	STEP LIGHT LUMIERE #1237E–RD–M–120/12–CS–LBB–M	RECESSED	12W LED INCLUDED	12W



TYPICAL IN GROUND JUNCTION BOX INSTALLATION DETAIL

1 / SE–01 SCALE: NONE



FIXTURE TYPE 'D' POLE FOUNDATION DETAIL

2 / SE–01 SCALE: NTS

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No.	REVISIONS	DATE	BY

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

LEGEND, SCHEDULES AND DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED 11956 PROFESSIONAL ENGINEER WILLIAM B M WOMACK

01/03/2013

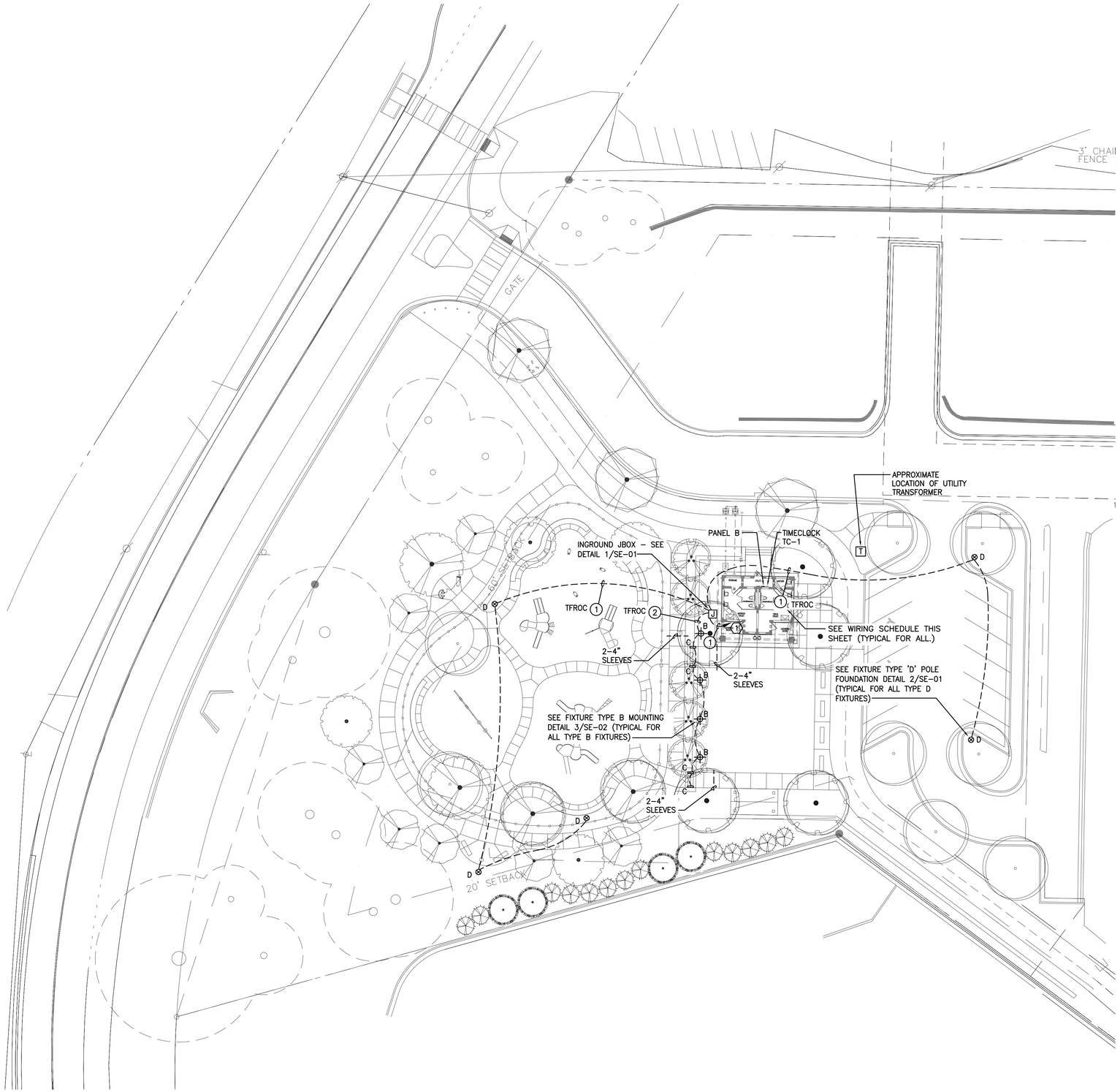
SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	WBMW
DRAWN BY:	SS
CHECKED BY:	WBMW
DATE:	01/03/13
KHA PROJECT NO.:	019124002

SHEET NUMBER
SE-01

WL&A PROJECT NUMBER -12189

WOMACK LUMSDEN & ASSOCIATES, LLC
4200 Perimeter Park South
Suite 225
Atlanta, Georgia 30341
Voice: 770-458-3005
Fax: 770-458-8388

PLOT SCALE 1 = 1



SITE PLAN - LIGHTING

1 / SE-02 SCALE: 1" = 20'-0"

WIRING SCHEDULE

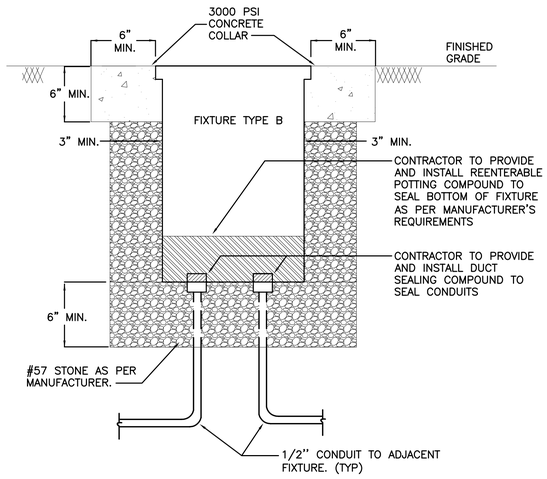
(1) 2#10 + 1#10G IN 3/4" C

(2) 2#10 + 1#10G IN 1/2" C

ALL CONDUCTORS ARE TO BE COPPER

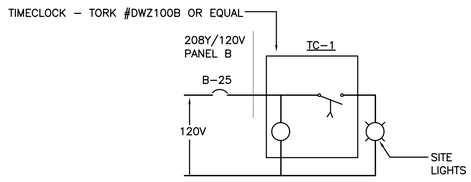
KEYNOTES:

(1) ROUTE AND CONNECT TO CIRCUIT BREAKER B-25 (20A/1P) IN PANEL B VIA TC-1. CONTRACTOR SHALL VERIFY LOCATION OF PANEL B AND TIMECLOCK TC-1 PER ANY ALTERNATES.



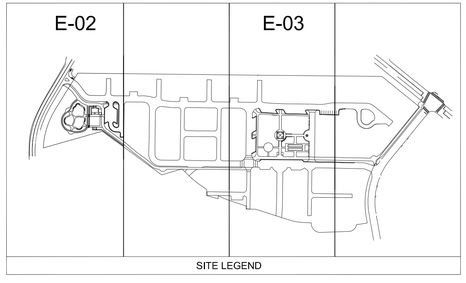
FIXTURE TYPE 'B' MOUNTING DETAIL

3 / SE-02 SCALE: NTS



TC-1 CONTROL SCHEMATIC

2 / SE-02 SCALE: N.T.S.



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

WL&A PROJECT NUMBER -12189

WOMACK LUMSDEN & ASSOCIATES, LLC
4200 Perimeter Park South
Suite 225
Atlanta, Georgia 30341
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PLOT SCALE 1 = 1

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DUNWOODY, GA 30346

SITE PLAN - LIGHTING

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED 11956 PROFESSIONAL ENGINEER WILLIAM B. M. WOMACK

01/03/2013

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	WBMW
DRAWN BY:	SS
CHECKED BY:	WBMW
DATE:	01/03/13
KHA PROJECT NO.:	019124002

SHEET NUMBER
SE-02

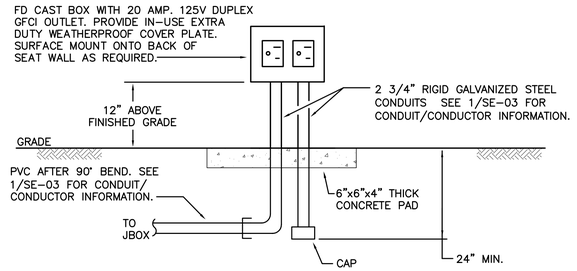
KEYNOTES:

1. ROUTE AND CONNECT TO CIRCUIT BREAKER A-41 (20A/1P) IN PANEL A VIA TC-2.
2. ROUTE AND CONNECT TO CIRCUIT BREAKER A-12 (20A/1P) IN PANEL A VIA TC-2.
3. ROUTE AND CONNECT TO CIRCUIT BREAKER A-14,16 (50A/2P) IN PANEL A.
4. ROUTE AND CONNECT TO CIRCUIT BREAKERS A-25,27,29,31 (20A/1P EA) IN PANEL A.
5. ROUTE AND CONNECT TO CIRCUIT BREAKERS A-33,35,37,39 (20A/1P EA) IN PANEL A.
6. CONTRACTOR SHALL MAKE CONNECTION AT VENDOR PROVIDED DISCONNECT AT FOUNTAIN VAULT.

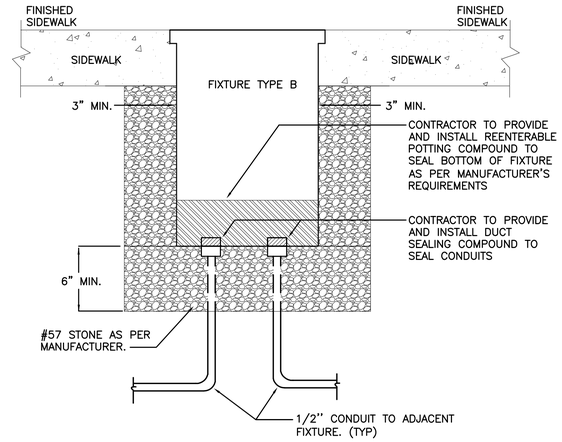
WIRING SCHEDULE

1. 2#10 + 1#10G IN 3/4" C
2. 2#10 + 1#10G IN 1/2" C
3. 3#8 + 1#10G IN 3/4" C
4. 8#6 + 1#6G IN 1-1/4" C

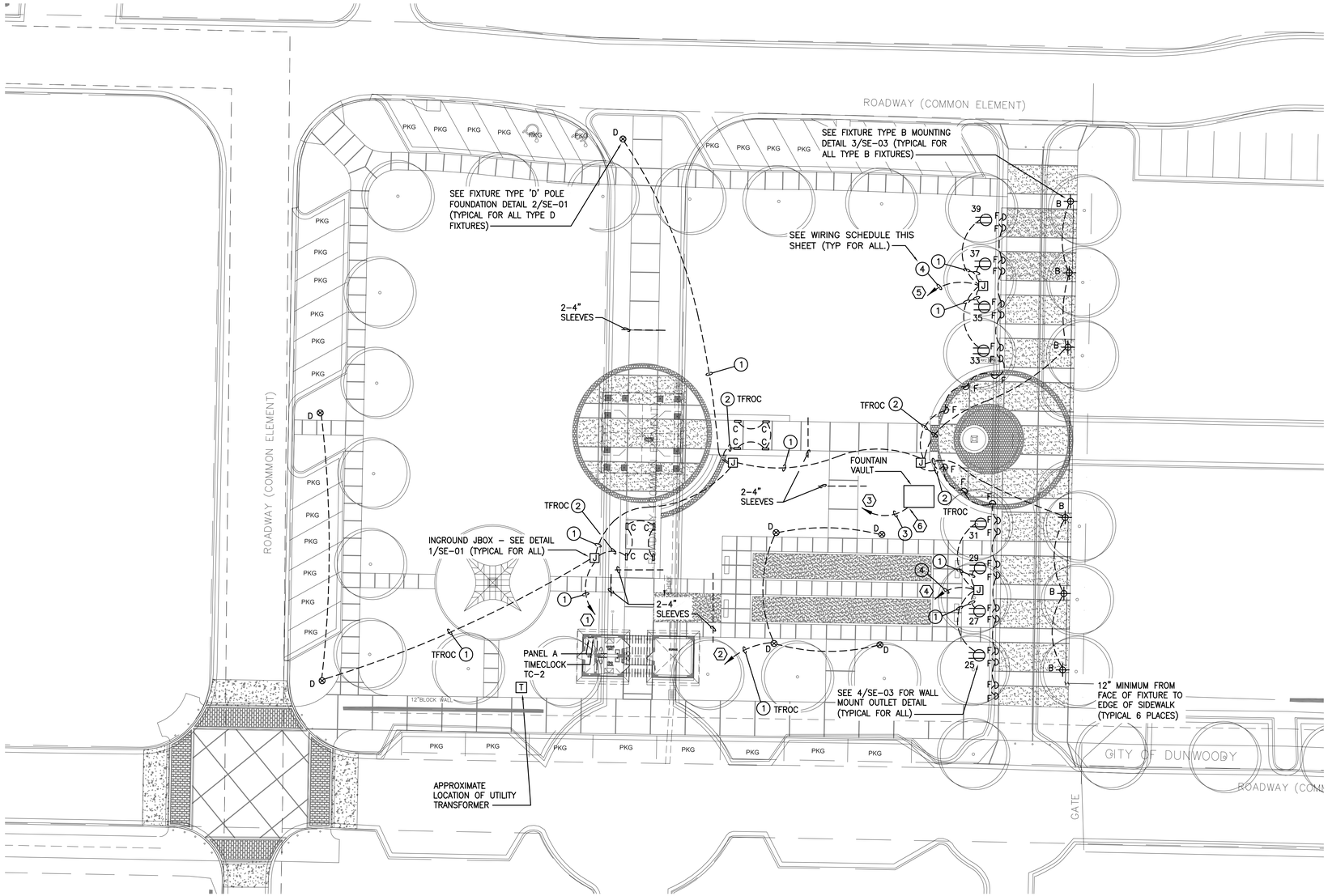
ALL CONDUCTORS ARE TO BE COPPER



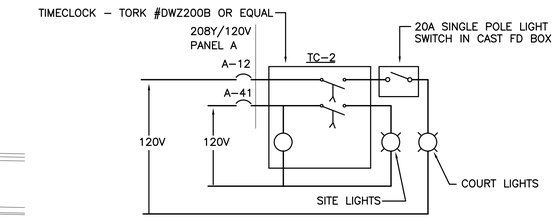
4 / SE-03 **WALL MOUNT OUTLET DETAIL**
SCALE: NTS



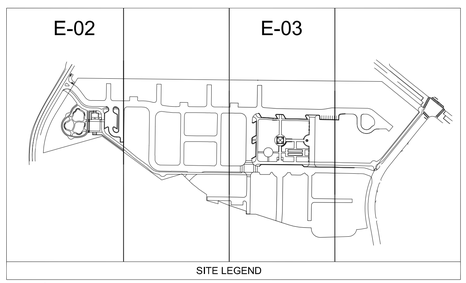
3 / SE-03 **FIXTURE TYPE 'B' MOUNTING DETAIL**
SCALE: NTS



1 / SE-03 **SITE PLAN - LIGHTING**
SCALE: 1" = 20'-0"



2 / SE-03 **TC-2 CONTROL SCHEMATIC**
SCALE: NTS



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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DUNWOODY
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DUNWOODY, GA 30346

SITE PLAN - LIGHTING

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

GEORGIA REGISTERED 11956 PROFESSIONAL ENGINEER WILLIAM B. M. WOMACK
01/03/2013

SCALE (H):	1"=20'
SCALE (V):	NONE
DESIGNED BY:	WBMW
DRAWN BY:	SS
CHECKED BY:	WBMW
DATE:	01/03/13
KHA PROJECT NO.:	019124002
SHEET NUMBER	SE-03

WL&A PROJECT NUMBER -12189

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4200 Perimeter Park South
Suite 225
Atlanta, Georgia 30341
Voice: 770-458-3005
Fax: 770-458-8388

PLOT SCALE 1 = 1

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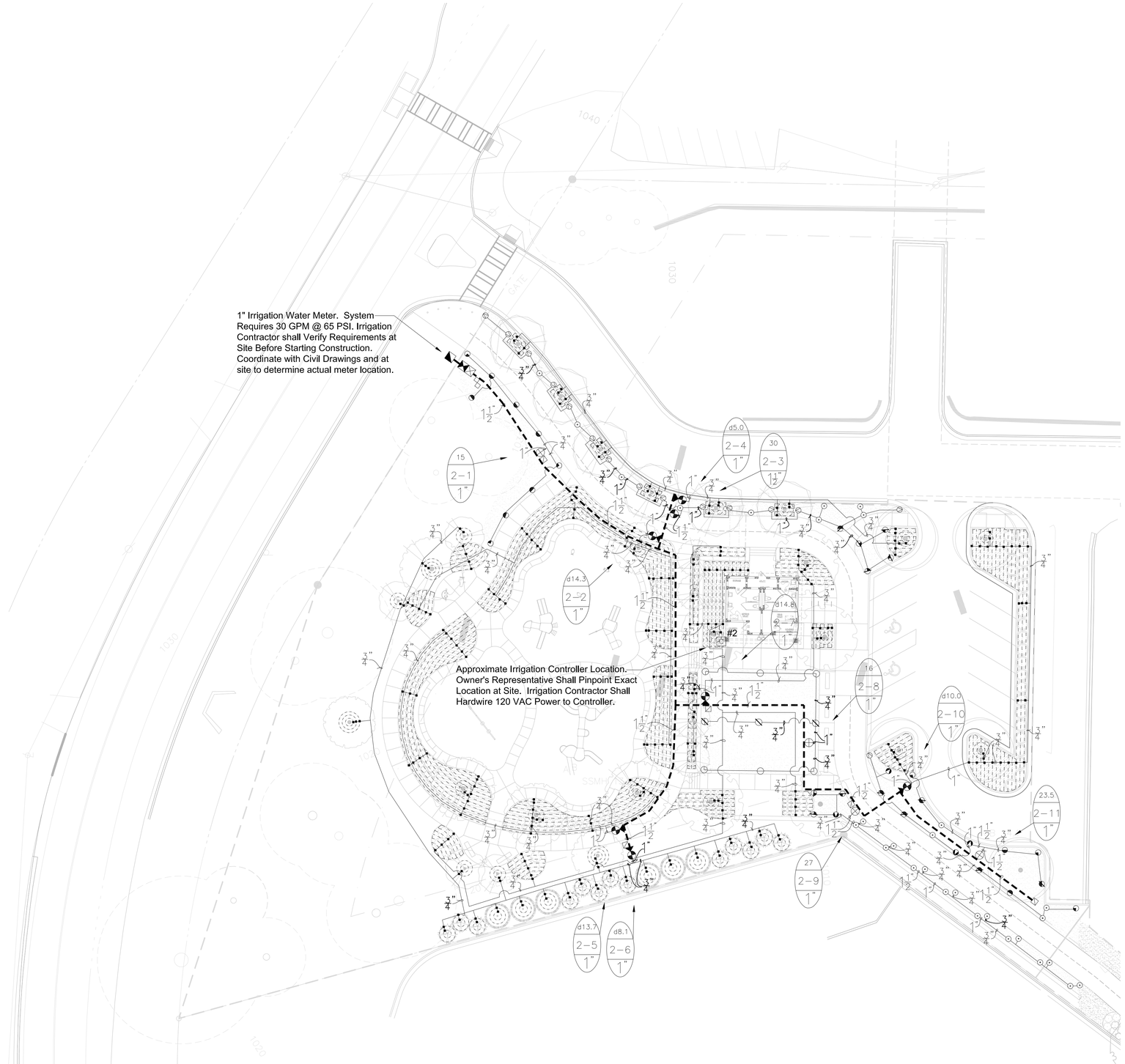



SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

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No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

IRRIGATION PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	ICS
DRAWN BY:	ICS
CHECKED BY:	KHA
DATE:	12/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
I1-00

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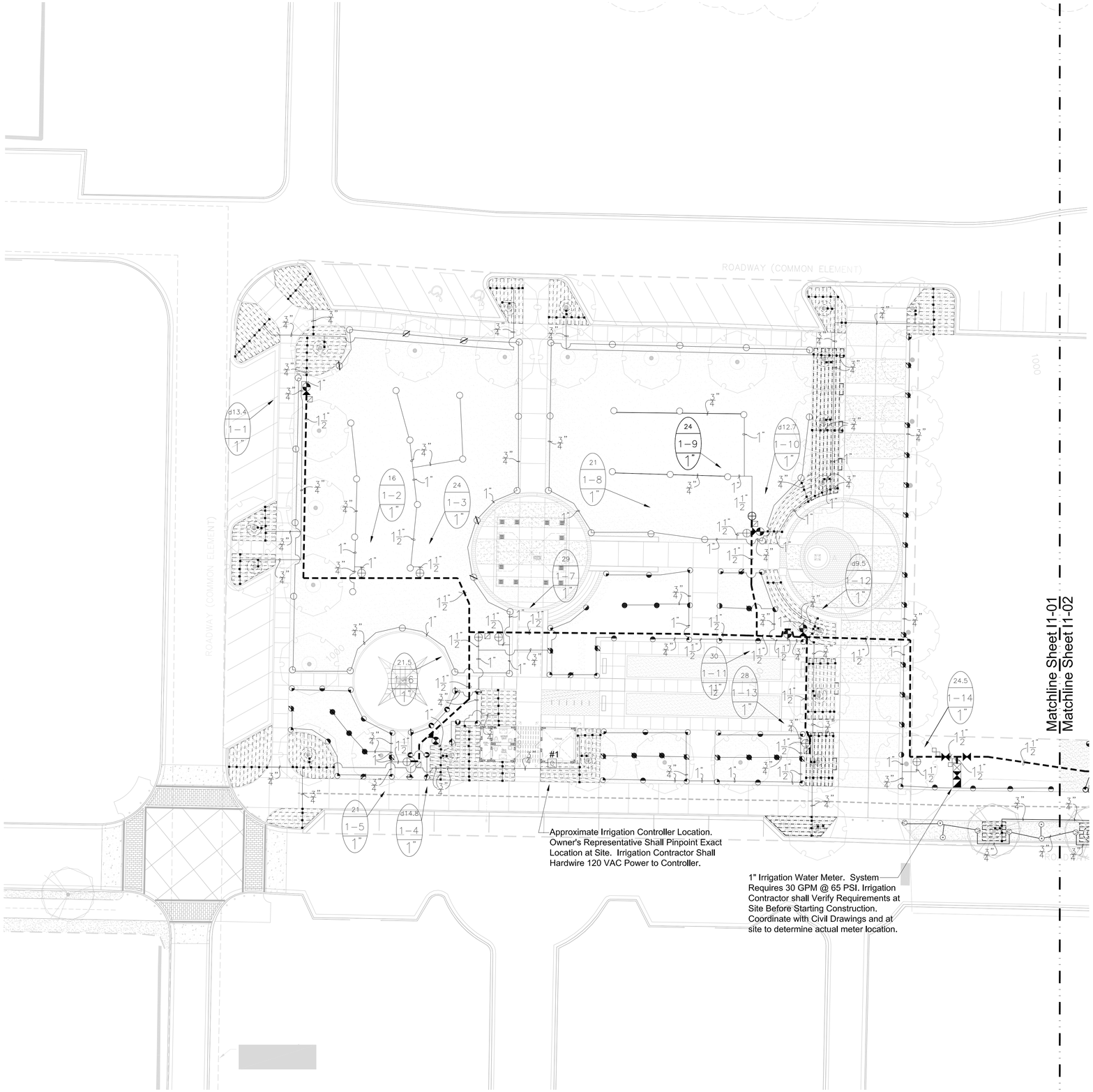

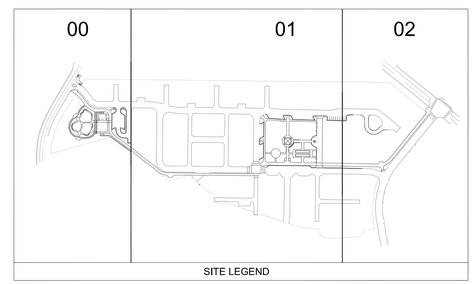

SITE LEGEND

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS

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DUNWOODY, GA 30346

IRRIGATION PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	ICS
DRAWN BY:	ICS
CHECKED BY:	KHA
DATE:	12/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
I1-01

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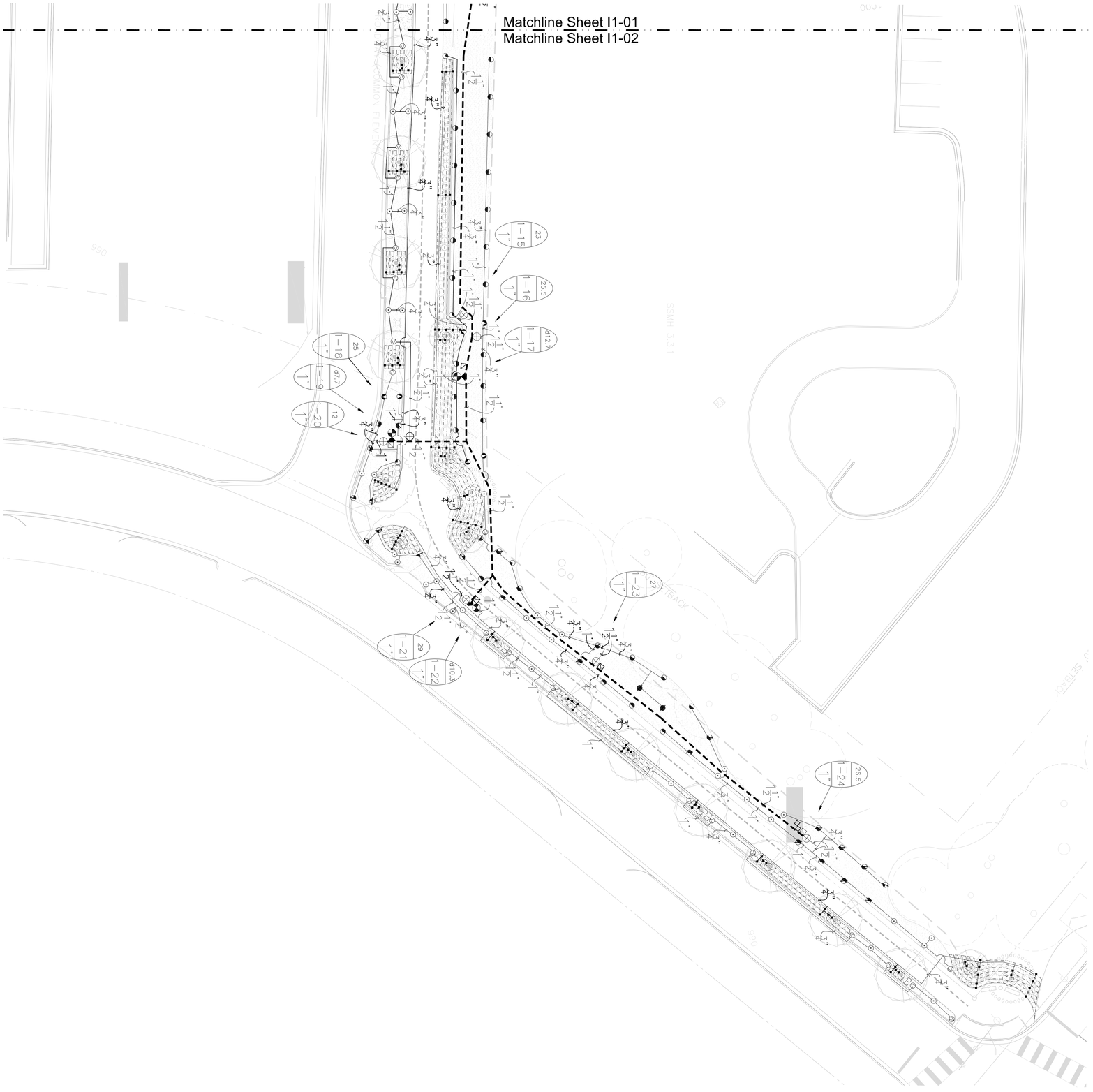

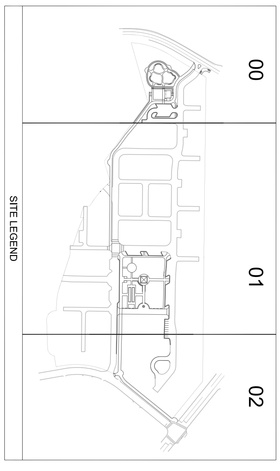

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE (H): AS NOTED
SCALE (V): NONE
DESIGNED BY: ICS
DRAWN BY: ICS
CHECKED BY: KHA
DATE: 12/21/12
KHA PROJECT NO.: 019124002

SHEET NUMBER
I1-02

DUNWOODY
COMMUNITY DEVELOPMENT

41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

IRRIGATION PLAN

No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS

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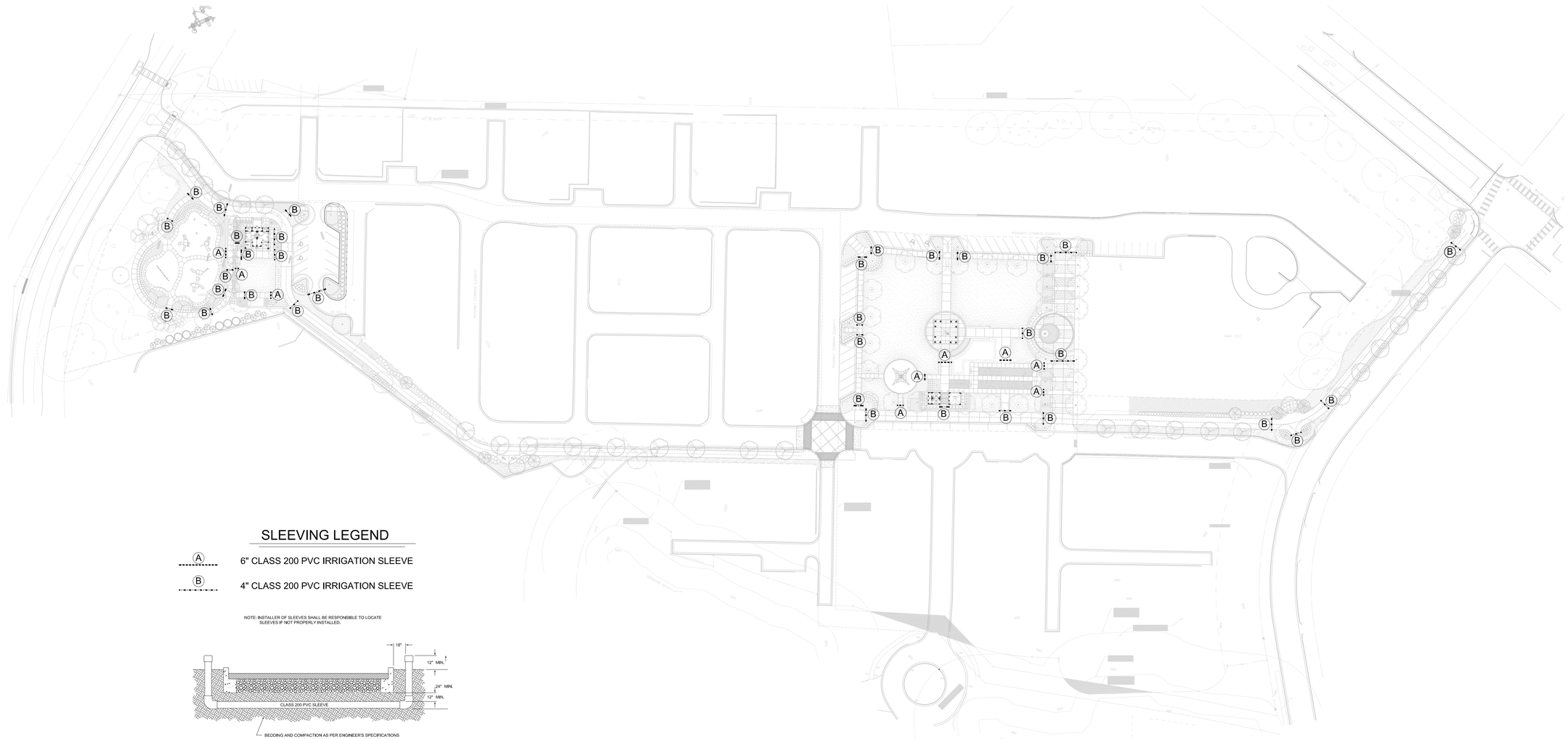

SLEEVING LEGEND

- (A) ..... 6" CLASS 200 PVC IRRIGATION SLEEVE
- (B) ..... 4" CLASS 200 PVC IRRIGATION SLEEVE

NOTE: INSTALLER OF SLEEVES SHALL BE RESPONSIBLE TO LOCATE SLEEVES IF NOT PROPERLY INSTALLED.

SLEEVING

NTS

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

No.	REVISIONS	DATE	BY
	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS

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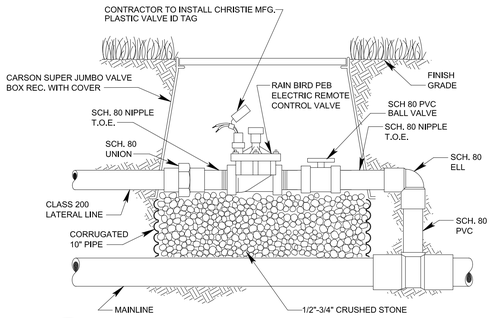
IRRIGATION SLEEVING PLAN

DUNWOODY
COMMUNITY DEVELOPMENT
41 PERIMETER CENTER EAST
DUNWOODY, GA 30346
(678) 382-6800

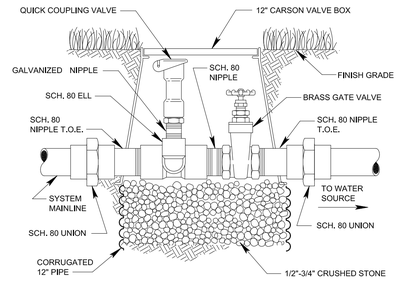
SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	ICS
DRAWN BY:	ICS
CHECKED BY:	KHA
DATE:	12/21/12
KHA PROJECT NO.:	019124002

SHEET NUMBER
I1-03



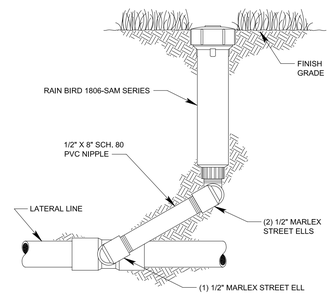
A CONTROL VALVE

NTS



B WINTERIZATION ASSEMBLY

NTS



C LAWN SPRAY

NTS



D ISOLATION BALL VALVE

NTS



E MANUAL DRAIN VALVE

NTS



F RPA BACKFLOW DEVICE

NTS

✳ IRRIGATION CONTACTOR SHALL SUBMIT BACKFLOW DETAIL TO LOCAL AUTHORITIES FOR APPROVAL BEFORE STARTING CONSTRUCTION.

GENERAL NOTES

1. ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (CLASS 200 PVC PIPE).
2. ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER. (CLASS 200 PVC PIPE).
3. NO ROCKS, BOULDER, OR OTHER EXTRANEOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
4. ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
5. ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
6. ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
7. SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
8. ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
9. ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
10. NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
11. ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
12. ALL 24 VOLT WIRE SHALL BE #12 UF/UL FOR COMMON WIRE, AND #14 UF/UL FOR CONTROL WIRES, DIRECT BURIAL, SOLID COPPER.
13. CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED. I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
14. CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, I.E. VERIFY ROOT BALL SIZE FOR PLANTING.
15. CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
16. CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
17. ALL SPRINKLERS TO BE MOUNTED ON SWING JOINTS - REFER TO DETAILS.
18. CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES.
19. 24 VOLT WIRE SHALL BE COLOR CODED; COMMON-WHITE, CONTROL-RED.
20. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH (2) 5/8" COPPER CLAD GROUND RODS.
21. CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
22. CONTROLLER GROUNDING MUST BE AS PER ASIC REQUIREMENTS
23. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
    A. TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
    B. TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
    C. TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
24. SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
25. CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
26. CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS.
27. PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS AND SPECIFICATIONS.
28. IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2010 FORMAT BEFORE FINAL ACCEPTANCE.
29. A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
30. PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE.
31. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST.
    A. 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
    B. 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE

IRRIGATION LEGEND

#1,#2	1" WATER METER, SYSTEM REQUIRES 30 GPM @ 65 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.
	MANUAL DRAIN VALVE. SCH 80 PVC BALL VALVE. DETAIL-E.
#1,#2	WATTS #909-M1-QT-1-1/2", 1-1/2" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER. DETAIL-F.
#1,#2	WINTERIZATION ASSEMBLY. DETAIL-B.
#1 C	RAIN BIRD ESP-32-LXME CONTROLLER: 32 STATION, MODULAR CONTROLLER, FOUR PROGRAMS, WALL MOUNTED. DETAIL-J IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS MINII CLIK II RAIN SENSOR AND A FREEZE-CLIK DEVICE FOR EACH CONTROLLER.
#2 C	RAIN BIRD ESP-16-LXME CONTROLLER: 16 STATION, MODULAR CONTROLLER, FOUR PROGRAMS, WALL MOUNTED. DETAIL-J IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS MINII CLIK II RAIN SENSOR AND A FREEZE-CLIK DEVICE FOR EACH CONTROLLER.
	RAIN BIRD 150-PEB PLASTIC ELECTRIC REMOTE CONTROL VALVE, 11/2" SIZE, MOUNTED WITH SCH 80 PVC BALL VALVE, DETAIL-A.
	RAIN BIRD 100-PEB PLASTIC ELECTRIC REMOTE CONTROL VALVE, 1" SIZE, MOUNTED WITH SCH 80 PVC BALL VALVE, DETAIL-A.
	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 12' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN POP-UP SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
	RAIN BIRD 1806-SAM, 6" LAWN END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-C.
	HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-C.
	HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-C.
	RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-O.
	SCH 80 PVC BALL VALVE, SIZED SAME AS MAINLINE, MOUNTED IN CARSON VALVE BOX, DETAIL-D.
	RAIN BIRD DRIP ZONE ASSEMBLY KIT, MODEL #XCZ-100-PRB-COM . 1" SIZE DETAIL-L.
■	POINT OF CONNECTION - DRIP LINE TUBING TO PVC PIPE, DETAIL-M,N.
	DRIP TUBING: RAIN BIRD XFS DRIPLINE DRIP TUBING, .6 GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4', INSTALL RAIN BIRD AIR RELIEF VALVE KIT IN 6" CIRCULAR VALVE BOX AT HIGH POINT OF ZONE. DETAIL-M,N,P,Q,R.
	TREE RING DRIP TUBING: RAIN BIRD XFS DRIPLINE DRIP TUBING, .6 GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4', INSTALL RAIN BIRD AIR RELIEF VALVE KIT IN 6" CIRCULAR VALVE BOX AT HIGH POINT OF ZONE. DETAIL-M,N,P,Q,R.
	MAINLINE PIPE: 1-1/2" SIZE IF NOT NOTED. CLASS 200 PVC.
	IRRIGATION SLEEVE: CLASS 200 PVC, REFER TO SLEEVING PLAN. DETAIL-H.
	LATERAL LINE PIPE: CLASS 200 PVC, SIZE NOTED.

NOTES:

1. ALL SPRINKLERS WILL BE MOUNTED ON (3) MARLEX STREET ELLS WITH A SCHED. 80 NIPPLE SIZE OF SPRINKLER INLET.
2. CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
3. ALL WIRE WILL BE COLOR CODED DIRECT BURIAL UL/UF WIRE: COMMON (WHITE) #12-1, CONTROL (RED) #14-1.
4. ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.
5. INSTALLATION CONTRACTOR SHALL INSTALL (2) SPARE CONTROL WIRES, COLOR-CODED YELLOW, AND COMMON WIRE TO END POINTS OF MAINLINE, MOUNTED IN 10" CARSON VALVE BOX.

TYPICAL VALVE INDICATOR

28.5	GALLONS PER MIN.
10	STATION NUMBER
1½"	VALVE SIZE

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	PLAN SUBMITTAL TO DCDWM	11/26/12	BWS
	PLAN SUBMITTAL TO GSWCC	11/26/12	BWS
	PLAN SUBMITTAL TO CITY OF DUNWOODY	12/04/12	BWS
	GSWCC & CITY OF DUNWOODY RESUB.	12/14/12	BWS

DUNWOODY
RENAISSANCE PARKS
DUNWOODY, GA 30346

IRRIGATION DETAILS

DUNWOODY
COMMUNITY DEVELOPMENT
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DUNWOODY, GA 30346
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SCALE (H):	AS NOTED
SCALE (V):	NONE
DESIGNED BY:	ICS
DRAWN BY:	ICS
CHECKED BY:	KHA
DATE:	12/21/12

KHA PROJECT NO.: 019124002

SHEET NUMBER
I1-04

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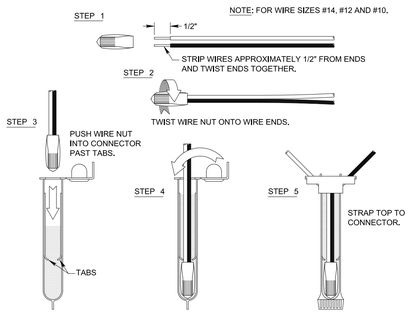

G WIRE CONNECTION
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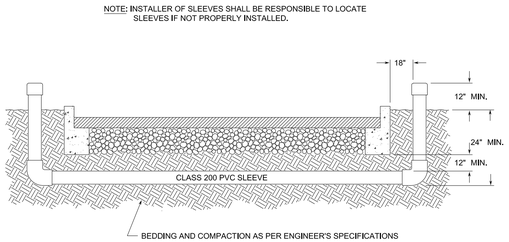
3M-DBR/Y



H SLEEVING
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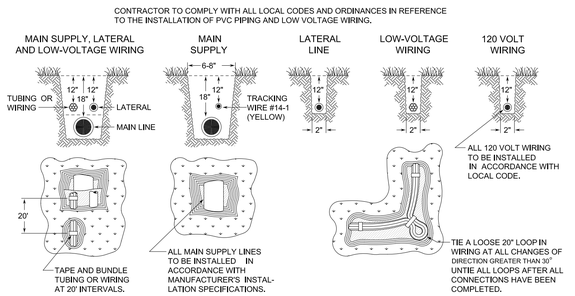

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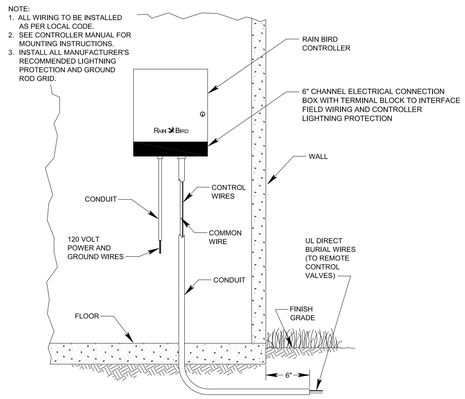

J CONTROLLER
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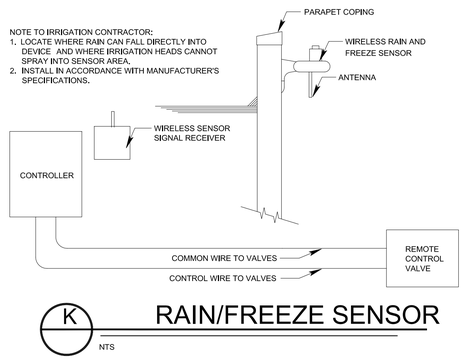
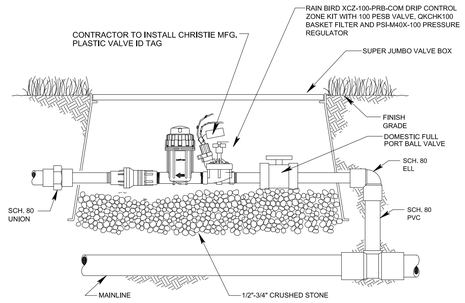


K RAIN/FREEZE SENSOR
NTS



L DRIP ASSEMBLY
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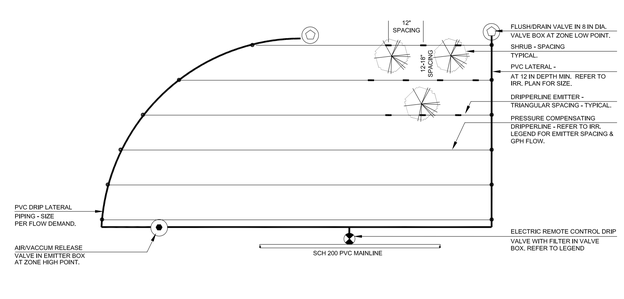

M IRRIGATION DRIPLINE
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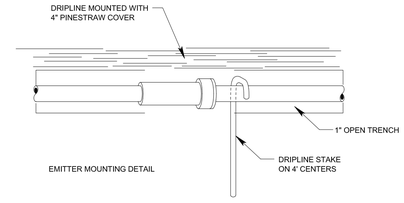

N DRIP EMITTER
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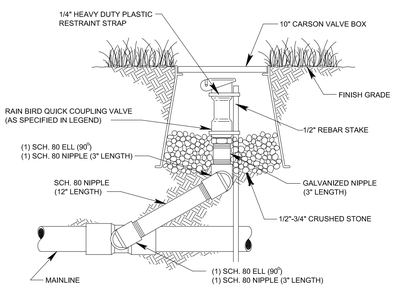

O QUICK COUPLING VALVE
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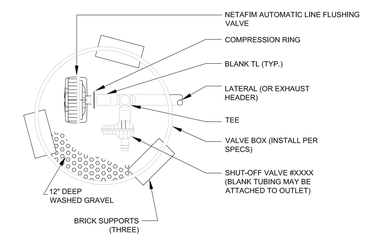

P LINE FLUSHING VALVE
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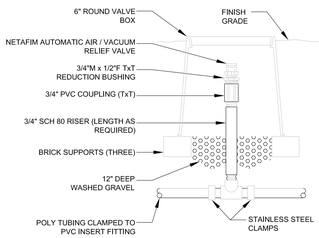

Q AIR/VACUUM RELIEF
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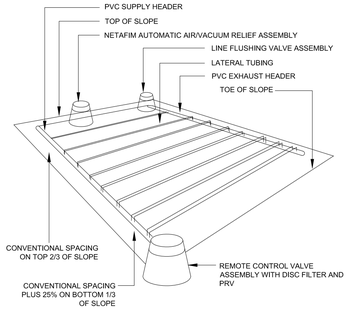

R DRIP TUBING
NTS
SLOPED FEED LAYOUT

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DATE:	12/21/12
KHA PROJECT NO.:	019124002

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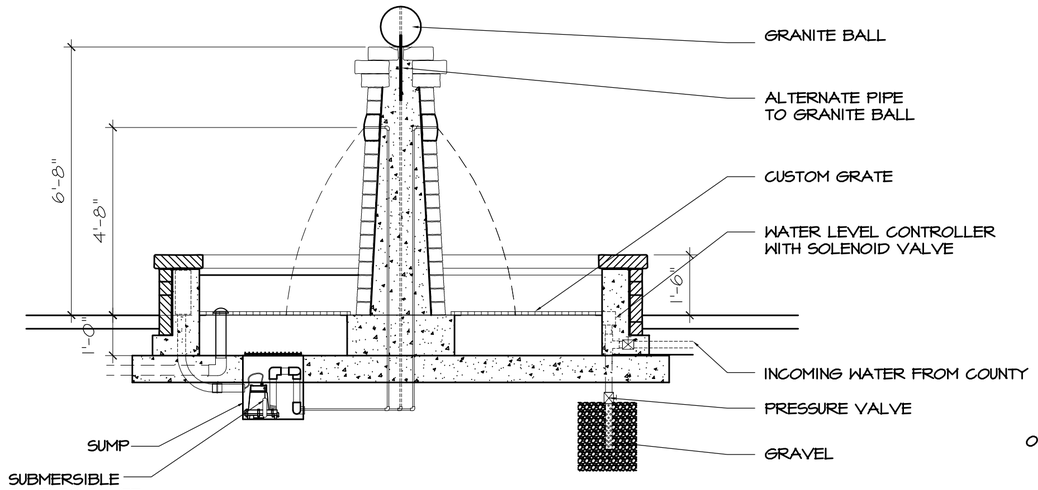
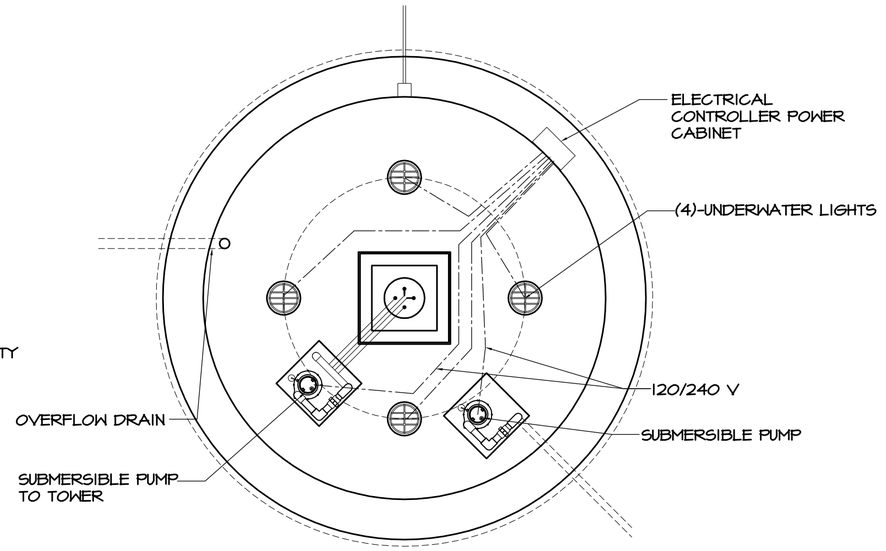


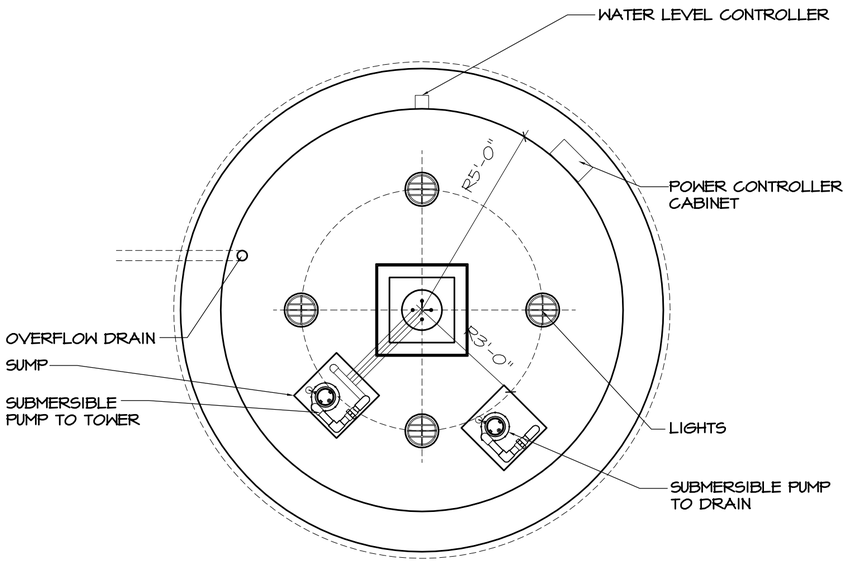
1 F-1 **TYP. SECTION**

SCALE : 3/8" = 1'-0"



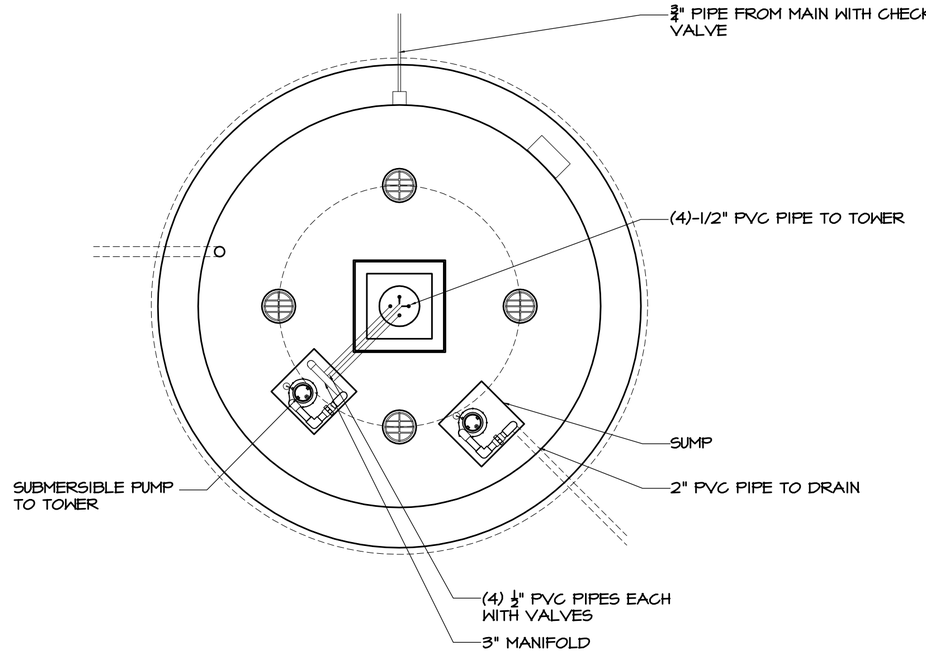
2 F-1 **ELECTRICAL LAYOUT**

SCALE : 3/8" = 1'-0"



3 F-1 **PLAN LAYOUT**

SCALE : 3/8" = 1'-0"



4 F-1 **PLUMBING LAYOUT**

SCALE : 3/8" = 1'-0"

NOTE:
WATER AND POWER TO BE
SUPPLIED BY OTHERS TO WATER
FEATURE.

REVISIONS	DATE

DUNWOODY PARK

ATLANTA, GA

Aqua design systems

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Scales as stated hereon are valid on the original drawing. This dimensions of which are 24X1 inches. These scales noted hereon are hereby changed by the ratio of the overall sheet dimensions of the print to corresponding dimensions of the original drawing.

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DP

DATE
04 JAN 2013

SCALE
VARIES

JOB NO.

FILENAME

SHEET
F-1

OF - SHEETS