

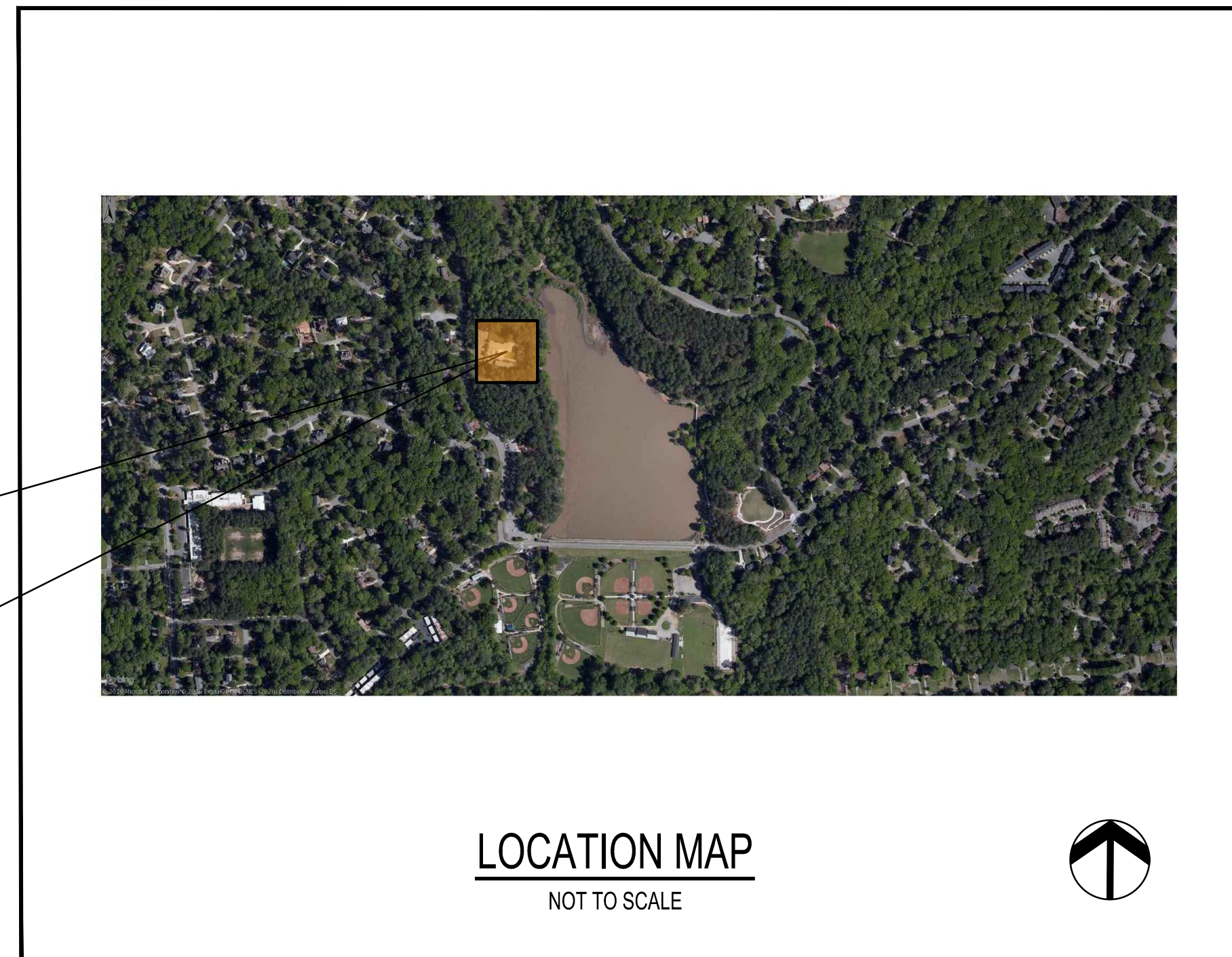
- GENERAL NOTES:**
- THE EXISTING CONDITIONS SURVEY WAS PREPARED BY TRAVIS PRUITT & ASSOCIATES.
 - ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS FOR ALL APPROPRIATE JURISDICTIONS.
 - ALL CONSTRUCTION OF UTILITIES TO BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO ANY DISRUPTION OF SERVICES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EROSION AND SEDIMENT CONTROL AND ALL REASONABLE MEASURES SHALL BE TAKEN TO PROTECT DOWNSTREAM AND OFF-SITE LAND FROM EROSION AND SEDIMENT DAMAGE DUE TO GRADING OPERATIONS.
 - APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING OR OTHER LAND DISTURBANCE ACTIVITY AND SHALL BE MAINTAINED IN ACCORDANCE TO CURRENT EDITION OF THE MANUAL OF EROSION AND SEDIMENT CONTROL IN GEORGIA.
 - WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE SHORING OR OTHER APPROVED METHOD IN ORDER TO MAKE THE WORK AREA STABLE AND SAFE.
 - ALL WORK PERFORMED BY THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ACCESS FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
 - TOPS OF ALL EXISTING STRUCTURES THAT ARE TO REMAIN WITHIN THE AREA REQUIRING RE-GRADING SHALL BE RAISED OR LOWERED AS REQUIRED TO MEET NEW GRADES. PRIOR TO ANY ADJUSTMENT THE CONTRACTOR IS TO COORDINATE SUCH WORK WITH THE OWNER.
 - ALL SURFACE AREAS TO HAVE POSITIVE DRAINAGE AT THE CONCLUSION OF THE CONTRACT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION WORK. MATERIALS SHALL BE REMOVED FROM THE SITE AS SOON AS POSSIBLE AND SHALL NOT BE ALLOWED TO ACCUMULATE. CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING OFF AND DISPOSING OF ANY DEBRIS TO AN APPROVED STATE LICENSED FACILITY.
 - GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND INTO STORM STRUCTURES.
 - CONTRACTOR TO MAINTAIN ALL STORM DRAINAGE STRUCTURES DURING THE COURSE OF CONSTRUCTION.
 - THE CONTRACTOR IS TO VERIFY ALL LOCATIONS AND/OR TYPES OF UTILITIES NEAR THE PROJECT LIMITS BEFORE CONSTRUCTION BEGINS. ANY DAMAGE CAUSED BY THE CONTRACTOR'S PERSONNEL OR EQUIPMENT TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR TO OWNERS SPECIFICATIONS. SUCH DAMAGE SHALL BE THE CONTRACTOR'S EXPENSE TO PAY FOR ALL MATERIALS, LABOR AND NECESSARY PERMITS.
 - CONTRACTOR SHALL ACQUIRE ALL PERMITS NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT.
 - A SEPARATE BUILDING PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALLS GREATER THAN 4 FEET IN HEIGHT AND ALL RETAINING WALLS USED AS A DAM PRIOR TO CONSTRUCTION OF THE WALLS.
 - LAND DISTURBANCE TO BE LIMITED TO THOSE AREAS NEEDED FOR PROPOSED WORK.
 - ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
 - NOTIFY THE CITY OF BROOKHAVEN INSPECTOR 24 HOURS BEFORE BEGINNING OF EVERY PHASE OF CONSTRUCTION.
 - APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF BROOKHAVEN FOR ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
 - WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING:
 - THE NATIONAL WETLAND INVENTORY DO NOT INDICATE SENSITIVE AREAS WITHIN THE PROJECT AREA.
 - A LETTER OF "NO PERMIT NEEDED" HAS BEEN ISSUED BY THE ARMY CORPS OF ENGINEERS FOR THIS PROJECT.



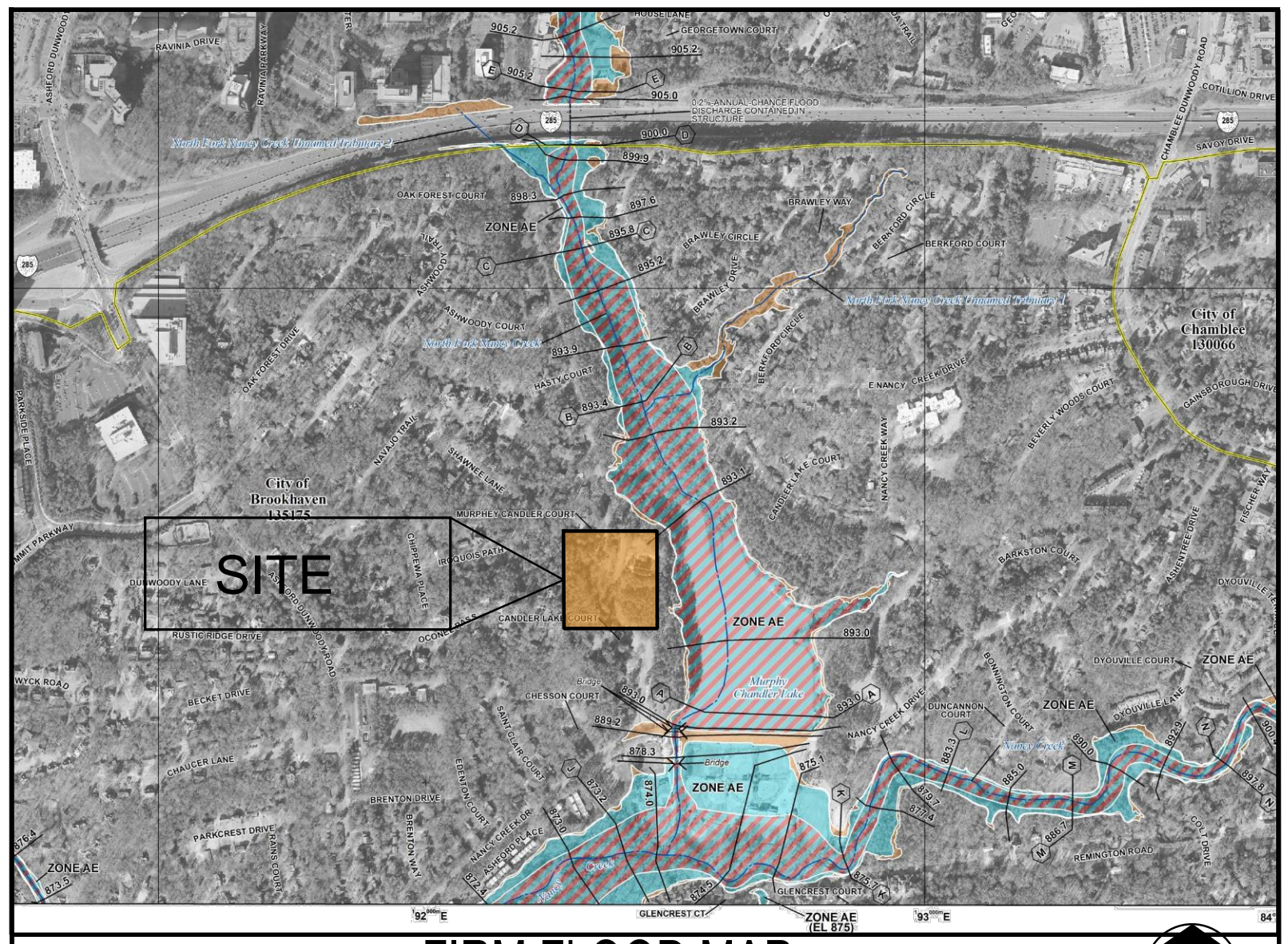
CITY OF BROOKHAVEN MURPHY CANDLER PARK POOL PARKING IMPROVEMENTS

DEKALB COUNTY, GEORGIA

PROJECT SITE



LOCATION MAP
NOT TO SCALE



FIRM FLOOD MAP
NOT TO SCALE

FLOOD NOTE:
ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF DEKALB COUNTY, GEORGIA (PANEL NUMBER 13089C0012X), DATED AUGUST 15, 2019; NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA.

UTILITY NOTES

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

UTILISURVEY, LLC
154 GRANT ROAD
FAYETTEVILLE, GA. 30215
PHONE: 404-312-6912
ATTENTION: HANS WÖNNEBERGER

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER, AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC. UTILIZING RADIO FREQUENCY TECHNIQUE AND IN ACCORDANCE TO LEVEL "B" UTILITY LOCATION CRITERIA. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON-METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT ARE NOT SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

SURVEY NOTES

EQUIPMENT USED:
A TRIMBLE "S" SERIES TOTAL STATION WAS USED TO OBTAIN ANGULAR MEASUREMENTS AND DISTANCE MEASUREMENTS.

A TRIMBLE R-10 DUAL FREQUENCY GPS UNIT WAS USED FOR ESTABLISHING CONTROL. A NETWORK ADJUSTED RTK SURVEY WAS PERFORMED AND ADJUSTED BY RELATIVE POSITIONAL ACCURACY.

CLOSURE STATEMENT:
TRACT 1 HAS BEEN CALCULATED FOR CLOSURE AND IS ACCURATE WITHIN ONE FOOT IN 697,879 FEET.

TRACT 2 HAS BEEN CALCULATED FOR CLOSURE AND IS ACCURATE WITHIN ONE FOOT IN 239,751 FEET.

THE FIELD DATA UPON WHICH THIS SURVEY IS BASED HAD A CLOSURE OF ONE FOOT IN 31,741 FEET AND AN ANGULAR ERROR OF 1" PER ANGLE POINT AND WAS ADJUSTED USING THE COMPASS RULE.

THE BEARINGS SHOWN ON THIS SURVEY ARE COMPUTED ANGLES BASED ON A GRID BEARING BASE (GA WEST ZONE) NAD83.

ALL HORIZONTAL DISTANCES SHOWN ARE GROUND DISTANCES. MEASURING UNITS OF THIS SURVEY ARE IN U.S. SURVEY FEET.

CONTOURS ARE SHOWN AT ONE FOOT INTERVALS. ELEVATIONS ARE BASED ON RTK GLOBAL POSITIONING SYSTEMS OBSERVATION AND ARE RELATIVE TO NAVD 88 DATUM.

FIELD WORK FOR THIS PROPERTY WAS COMPLETED ON AUGUST 17, 2016

DISCLAIMERS:

INFORMATION REGARDING SIZE, LOCATION, AND SPECIES OF EXISTING TREES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE SIZE AND SPECIES OF THE SAID TREES WITHOUT VERIFICATION FROM THE DESIGNATED ARBORIST BY THE LOCAL REGULATORY AUTHORITY. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON EXCEPT BY APPROVAL OF SAID AUTHORITY.

THIS SURVEY MAY NOT REPRESENT OFFSITE PAINT STRIPING TO THE ACCURACY REQUIRED FOR LANE DESIGN. TERRAMARK LOCATES THE EDGE OF PAVING AND CRITICAL POINTS OF REFLECTION FROM THE EXISTING TOPOGRAPHIC DATA ONLY. ACCURACY OF PAINT LOCATIONS SHOULD BE VERIFIED WITH SURVEYOR PRIOR TO USING THIS SURVEY FOR DESIGN.

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY TO THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON AS TO SUCH UNDERGROUND INFORMATION.

INFORMATION REGARDING STORM SEWER AND SANITARY SEWER AS SHOWN HEREON, IS BASED ON OBSERVATIONS TAKEN BY TERRAMARK EMPLOYEES AT THE GROUND ELEVATION OF THE EXISTING STRUCTURE. TERRAMARK EMPLOYEES ARE NOT AUTHORIZED TO ENTER A CONFINED SPACE SUCH AS A STRUCTURE. THEREFORE, THERE IS NO CERTAINTY OF THE PIPE SIZES AND PIPE MATERIAL THAT ARE SHOWN ON THIS SURVEY. EXCAVATION BY A CERTIFIED CONTRACTOR IS THE ONLY WAY TO VERIFY PIPE SIZE AND MATERIAL. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THE PIPE INFORMATION SHOWN HEREON.

STATE WATERS AND BUFFERS AS SHOWN OR NOT SHOWN HEREON ARE SUBJECT TO REVIEW BY LOCAL JURISDICTION OFFICIALS. IT IS THE RESPONSIBILITY OF THE LOCAL AUTHORITY TO DETERMINE SPECIFIC WATER CLASSIFICATION. THEREFORE TERRAMARK LAND SURVEYING ACCEPTS NO RESPONSIBILITY IN THE IDENTIFICATION OF SAID WATERS OR BUFFERS IDENTIFIED OR NOT IDENTIFIED HEREON.

PROPERTY IS SUBJECT TO RIGHTS OF UPPER AND LOWER RIPARIAN OWNERS IN AND TO THE WATER OF CREEKS AND BRANCHES CROSSING OR ADJOINING SUBJECT PROPERTY AND THE NATURAL FLOW THEREOF, FREE FROM DIMINUTION OR POLLUTION.

THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS OR ENTITY NAMED HEREON. THIS SURVEY DOES NOT EXTEND TO ANY UNNAMED PERSON, PERSONS OR ENTITY WITHOUT THE EXPRESS CERTIFICATION BY THE SURVEYOR NAMING SAID PERSON, PERSONS OR ENTITY.

TERRAMARK LAND SURVEYING, INC. DOES NOT WARRANT THE EXISTENCE OR NON-EXISTENCE OF ANY WETLANDS OR HAZARDOUS WASTE IN THE SURVEY AREA.

| SHEET INDEX | | |
|-------------|---|----|
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| C0.6A | KEY SHEET | 2 |
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| C2.6 | CONSTRUCTION ITEMS | 4 |
| C3.6 | DEMO AND TREE PROTECTION PLAN | 5 |
| C4.6A | LAYOUT PLAN | 6 |
| C4.6B | STAKING PLAN | 7 |
| C5.6 | GRADING PLAN | 8 |
| C7.6-N1 | EROSION CONTROL NOTES, PLAN AND DETAILS | 9 |
| C7.6-N2 | EROSION CONTROL NOTES, PLAN AND DETAILS | 10 |
| C7.6-N3 | EROSION CONTROL NOTES, PLAN AND DETAILS | 11 |
| C7.6-A | EROSION CONTROL NOTES, PLAN AND DETAILS | 12 |
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| C7.6-C | EROSION CONTROL NOTES, PLAN AND DETAILS | 14 |
| C7.6-D | EROSION CONTROL NOTES, PLAN AND DETAILS | 15 |
| C7.6-E | EROSION CONTROL NOTES, PLAN AND DETAILS | 16 |
| C7.6-F | EROSION CONTROL NOTES, PLAN AND DETAILS | 17 |
| C7.6-G | EROSION CONTROL NOTES, PLAN AND DETAILS | 18 |
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| C8.6C | SITE DETAILS | 21 |
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| C9.6A2 | PLANTING PLAN | 23 |
| C9.6B | PLANTING DETAILS | 24 |
| C9.6C | PLANTING DETAILS | 25 |
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| C7.0B | ESCP NOTES (GSWCC APPROVED PLAN) | |
| C7.0C | ESCP NOTES (GSWCC APPROVED PLAN) | |
| C7.6A | EROSION CONTROL PLAN (POOL PARKING) (GSWCC APPROVED PLAN) | |
| C7.6B | EROSION CONTROL PLAN (POOL PARKING) (GSWCC APPROVED PLAN) | |
| C7.6C | EROSION CONTROL PLAN (POOL PARKING) (GSWCC APPROVED PLAN) | |
| C7.7A | EROSION CONTROL DETAILS (GSWCC APPROVED PLAN) | |
| C7.7B | EROSION CONTROL DETAILS (GSWCC APPROVED PLAN) | |
| C7.7C | EROSION CONTROL DETAILS (GSWCC APPROVED PLAN) | |
| C7.7D | EROSION CONTROL DETAILS (GSWCC APPROVED PLAN) | |
| C7.7E | EROSION CONTROL DETAILS (GSWCC APPROVED PLAN) | |
| C7.7F | EROSION CONTROL DETAILS (GSWCC APPROVED PLAN) | |

DO NOT BEGIN CONSTRUCTION
before the on-site pre-construction meeting with the City Land Development Inspector.
Schedule through the Project Portal:
<https://cityworks.brookhavenga.gov/ProjectPortal>

REFERENCE MATERIAL

- PLAT FOR CANDLER LAKE ESTATES, UNIT ONE RECORDED IN PB. 45 PG. 14 AMONG THE LAND RECORDS OF DEKALB COUNTY
- PLAT FOR ASHWOODY SUBDIVISION RECORDED IN PB. 45 PG. 35 AFORESAID RECORDS
- PLAT FOR CANDLER LAKE VIEW SUBDIVISION RECORDED IN PB. 58 PG. 161 AFORESAID RECORDS
- FINAL PLAT FOR ASHFORD GLEN, UNIT 4 RECORDED IN PB. 84 PG. 29 AFORESAID RECORDS
- PLAT FOR FOX GLEN SUBDIVISION RECORDED IN PB. 46 PG. 87 AFORESAID RECORDS
- CONDOMINIUM PLAT FOR ASHFORD LAKE CONDOMINIUM ASSOCIATION RECORDED IN PB. 6 PG. 9 AFORESAID RECORDS
- DEED FOR ASHFORD PLACE CONDOMINIUM ASSOCIATION RECORDED IN DB. 3529 PG. 379 AFORESAID RECORDS

UTILITY PROVIDERS

| GAS | COMMUNICATION |
|---|--|
| ATLANTA GAS LIGHT COMPANY AGL 10 PEACHTREE STREET NE ATLANTA, GA 30309 MARTIN MAREK (404) 584-4126 | AT&T 208 S. AKARD ST. DALLAS, TX 75202 (210) 821-4108 ANGELO HINES (770) 784-3972 |
| POWER GEORGIA POWER COMPANY 823 JEFFERSON STREET ATLANTA, GA 30318 (404) 506-4569 IKE COLLINS | COMCAST (770) 559-8879 SANDRA ANDREWS LEVEL 3 COMMUNICATIONS, INC 1025 EL DORADO BOULEVARD BROOMFIELD, CO 80021 (877) 366-8344 EXT. 3 |
| WATER DEKALB COUNTY WATER AND SEWER DEPARTMENT 1580 ROADHAVEN DR. STONE MOUNTAIN, GA. 30083 (770) 612-7222 JEFF WOODS (770) 724-1490 JDWOODS@DEKALBCOUNTYGA.GOV | VERIZON / MCI 2400 N GLENVILLE RICHARDSON, TX 75082 (478) 471-1042 DENNIS RAINEY CENTURYLINK 100 CENTURYLINK DRIVE MONROE, LA 71203 (888) 723-8010 ZANO FIBER SOLUTIONS 400 CENTENNIAL PKWY, SUITE 200 LOUISVILLE, CO 80027 (878) 686-2493 NIC FLORES |

TITLE NOTES

ACCORDING TO THE "FIRM" (FLOOD INSURANCE RATE MAP) OF DEKALB COUNTY, GEORGIA (PANEL NUMBERS 13089C0012J & 13089C0014J), DATED MAY 16, 2013; A PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH COULD REVEAL ENCUMBRANCES NOT SHOWN ON THIS SURVEY. SUBJECT PROPERTY HAS ACCESS TO THE PUBLIC RIGHT OF WAY OF WEST NANCY CREEK DRIVE, CANDLER LAKE WEST & CANDLER LAKE EAST.

AREA TABLE

| | |
|-------------------|---|
| TRACT 1 | 3,630,024 SQ.FT. OR 83.3339 AC. |
| TRACT 2 | 1,602,679 SQ.FT. OR 36.7924 AC. |
| TOTAL AREA | 5,232,703 SQ.FT. OR 120.1263 AC. |



SITE DATA:

PARCEL: 1833101005
OWNER: CITY OF BROOKHAVEN
ADDRESS: 1551 WEST NANCY CREEK DRIVE
ACREAGE: 120.1263 ACRES
ZONING: R-100

TOTAL SITE AREA: 120 AC

POOL PARKING ONLY SITE DATA:

| | |
|--|---------|
| EXISTING IMPERVIOUS: | 0.45 AC |
| NEW/REPLACEMENT IMPERVIOUS: | 0.50 AC |
| TOTAL POST CONSTRUCTION IMPERVIOUS: (NEW AND EXISTING) | 0.95 AC |

TOTAL DISTURBED AREA: 0.87 AC

2021 SMALL TREE LOCATION
CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT

2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1366 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A. # LSF000810

NOTE: THE WRESTED VEGETATION AND 80% CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021

The City of Brookhaven does not certify the accuracy of these drawings. In approving these drawings and specifications, the City has relied upon the accuracy of the information and representations furnished herein by the engineer, or architect, and/or applicant. The City of Brookhaven assumes no liability or responsibility for the accuracy of the representations provided.

OWNER/PRIMARY PERMITEE:

CONTACT: **CHRISTIAN SIGMAN, CITY MANAGER**
CITY OF BROOKHAVEN
4362 PEACHTREE ROAD NE
BROOKHAVEN, GEORGIA 30319
PHONE: (404) 637-0513
CHRISTIAN.SIGMAN@BROOKHAVENGA.GOV

24-HOUR CONTACT:

CONTACT: **LEE CROY, PARKS PROGRAM MANAGER**
CITY OF BROOKHAVEN
PHONE: 678 576 9846
EMAIL: LEE.CROY@BROOKHAVENGA.GOV

CITY ARBORIST:

JEFF DADISMAN
ISA 50-10385A
PHONE: 404 270 0086
EMAIL: JEFF.DADISMAN@BROOKHAVENGA.GOV

LEAD DESIGN PROFESSIONAL:

CONTACT: **GE GRACE ZHANG, RLA**
CLARK PATTERSON LEE
3011 SUTTON GATE DRIVE, SUITE 130
SUWANEE, GEORGIA 30024

OFFICE: (770) 831-9000
EMAIL: GZHANG@CPLTEAM.COM



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 31 | 04/29 | Multi-use Trail and Open - Product Review |
| 32 | 05/05 | LUP - General Notes - City Comments |
| 33 | 05/14 | LUP - Revision - City Comments |
| 34 | 05/28 | LUP - General Notes - City Comments |
| 35 | 06/15 | GSWCC Revisions - City Comments |
| 36 | 07/26 | LUP - POOL PARKING - CITY COMMENTS |



CITY OF BROOKHAVEN
MURPHY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 03/03/21 | GZ | MC |

SCALE: NONE

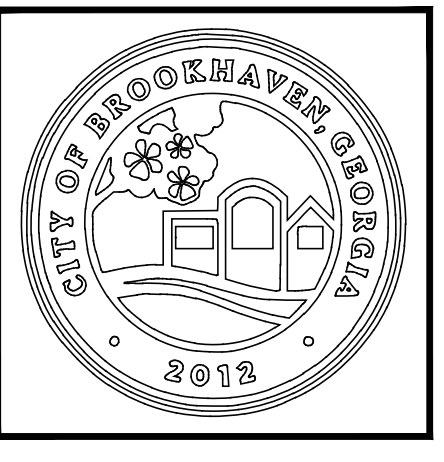
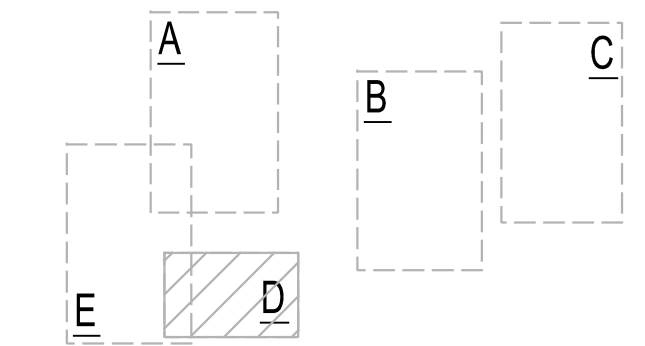
SHEET TITLE
POOL PARKING COVER SHEET

| | |
|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| C0.6 | |
| 1 | |
| DRAWING NUMBER | |

AREA CODE INDEX

1. AREA A1 - HORSESHOE AREA
 - HORSESHOE WITH PARKING
 - ON STREET PARKING
2. AREA A2 - COMMUNITY GREEN
3. AREA A3 - NATURAL PLAY AREA AND SIDEWALK
4. AREA B - MULTI-USE TRAIL ON DAM
5. AREA C - SOUTH TRAIL
6. AREA D - POOL PARKING
7. AREA E - NORTH BOARDWALK

SHEET KEY



| No. | Date | Description |
|-----|-------|---|
| 1 | 04/20 | LDP - South Trail |
| 2 | 05/05 | State Buffer Comments - South Trail |
| 3 | 05/05 | LDP - Natural Play Area |
| 4 | 05/07 | LDP - South Trail - City Comment #1 |
| 5 | 05/08 | LDP - Natural Play Area - City Comment #1 |
| 6 | 05/28 | LDP - Natural Play Area - City Comment #2 |
| 7 | 06/30 | LDP - Horseshoe Road |
| 8 | 07/07 | LDP - Community Green |
| 9 | 07/10 | LDP - Pool Parking |
| 10 | 08/17 | LDP - Community Green - City Comment #1 |
| 11 | 08/17 | LDP - South Trail - City Comment #1 |
| 12 | 08/17 | LDP - South Trail - City Comment #2 |
| 13 | 10/13 | LDP - Pool Parking - City Comment #1 |
| 14 | 10/16 | LDP - Natural Play Area Design Review #1 |
| 15 | 10/16 | SDP - Multi-Use Trail on Dam |
| 16 | 11/09 | North Boardwalk Design-Build |
| 16 | 11/18 | LDP - Pool Parking - City Comment #2 |



CITY OF BROOKHAVEN
 MURPHY Candler PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

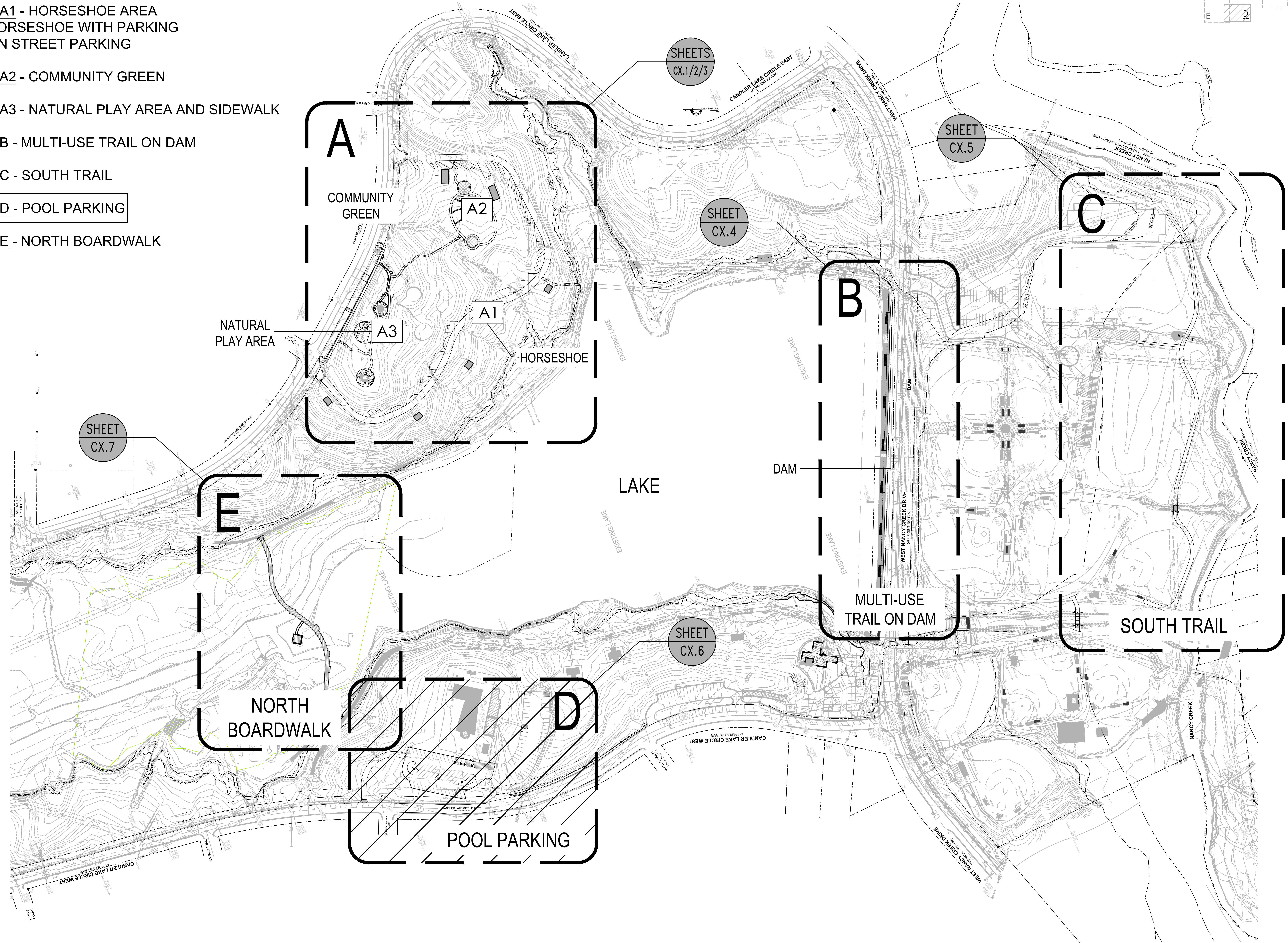
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|----------|-------|---------|
| DATE | DRAWN | CHECKED |
| 04/23/20 | BM | GZ |

KEY SHEET
 POOL PARKING

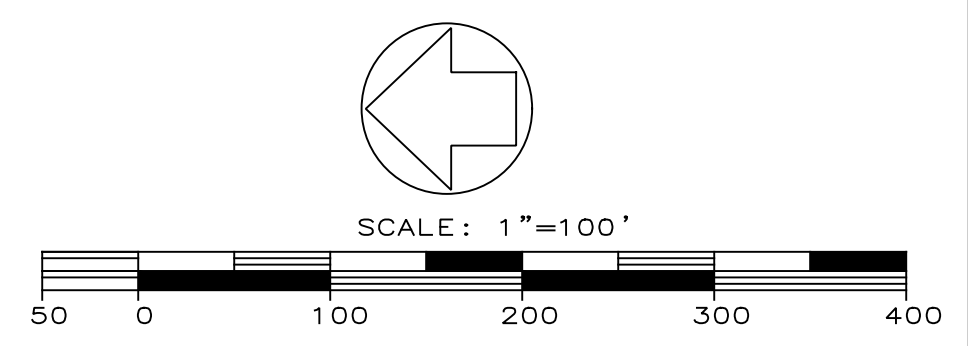
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| PROJECT NUMBER | 15092.00 |
| C0.6A | |
| 2 | |
| DRAWING NUMBER | |

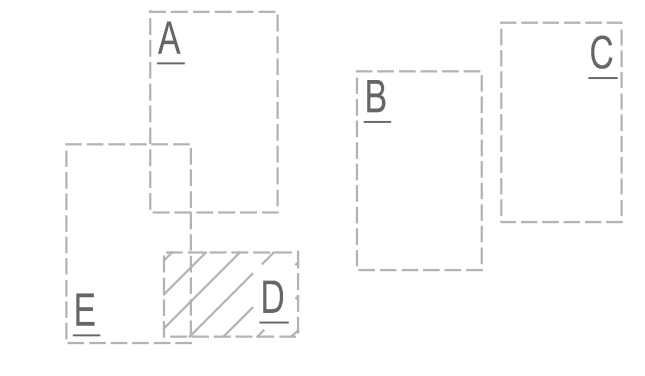
APPROVED PLAN 08/16/2021
 Permit # LDP20-00020

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 Date last plotted: 11/18/2020 9:40 AM
 Plotted By: Gaoce Zhang



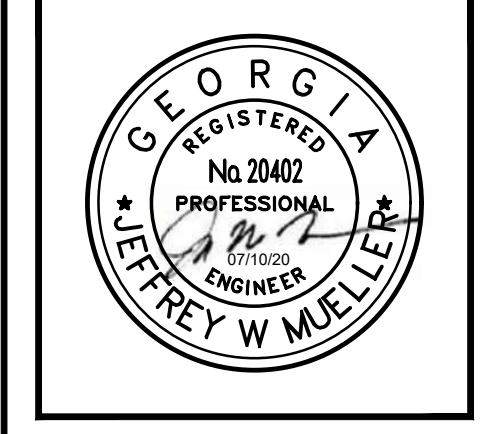
2018 SURVEY & 2019 UPDATED TREE SURVEY
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 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
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DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 1 | 04/20 | LDP - South Trail |
| 2 | 05/05 | State Buffer Comments - South Trail |
| 3 | 05/05 | LDP - Natural Play Area |
| 4 | 05/07 | LDP - South Trail - City Comment #1 |
| 5 | 05/28 | LDP - Natural Play Area - City Comment #1 |
| 6 | 05/28 | LDP - Natural Play Area - City Comment #2 |
| 7 | 06/30 | LDP - Horseshoe Road |
| 8 | 07/07 | LDP - Community Green |
| 9 | 07/10 | LDP - Food Parking |
| 10 | 08/17 | LDP - Community Green - City Comment #1 |
| 11 | 08/17 | LDP - South Trail - City Comment #2 |
| 12 | 08/17 | LDP - South Trail - City Comment #3 |
| 13 | 10/13 | LDP - Food Parking - City Comment #1 |
| 14 | 10/16 | LDP - Natural Play Area - City Comment #1 |
| 15 | 10/16 | SDP - Multi-use Trail on Dam |
| 16 | 11/09 | North Boardwalk Design-Build |
| 17 | 11/18 | LDP - Food Parking - City Comment #2 |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

| | | |
|----------|-------|---------|
| DATE | DRAWN | CHECKED |
| 04/23/20 | BM | GZ |

EXISTING CONDITIONS
POOL PARKING

| | |
|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| C1.6 | |
| 3 | |
| DRAWING NUMBER | |

LEGEND

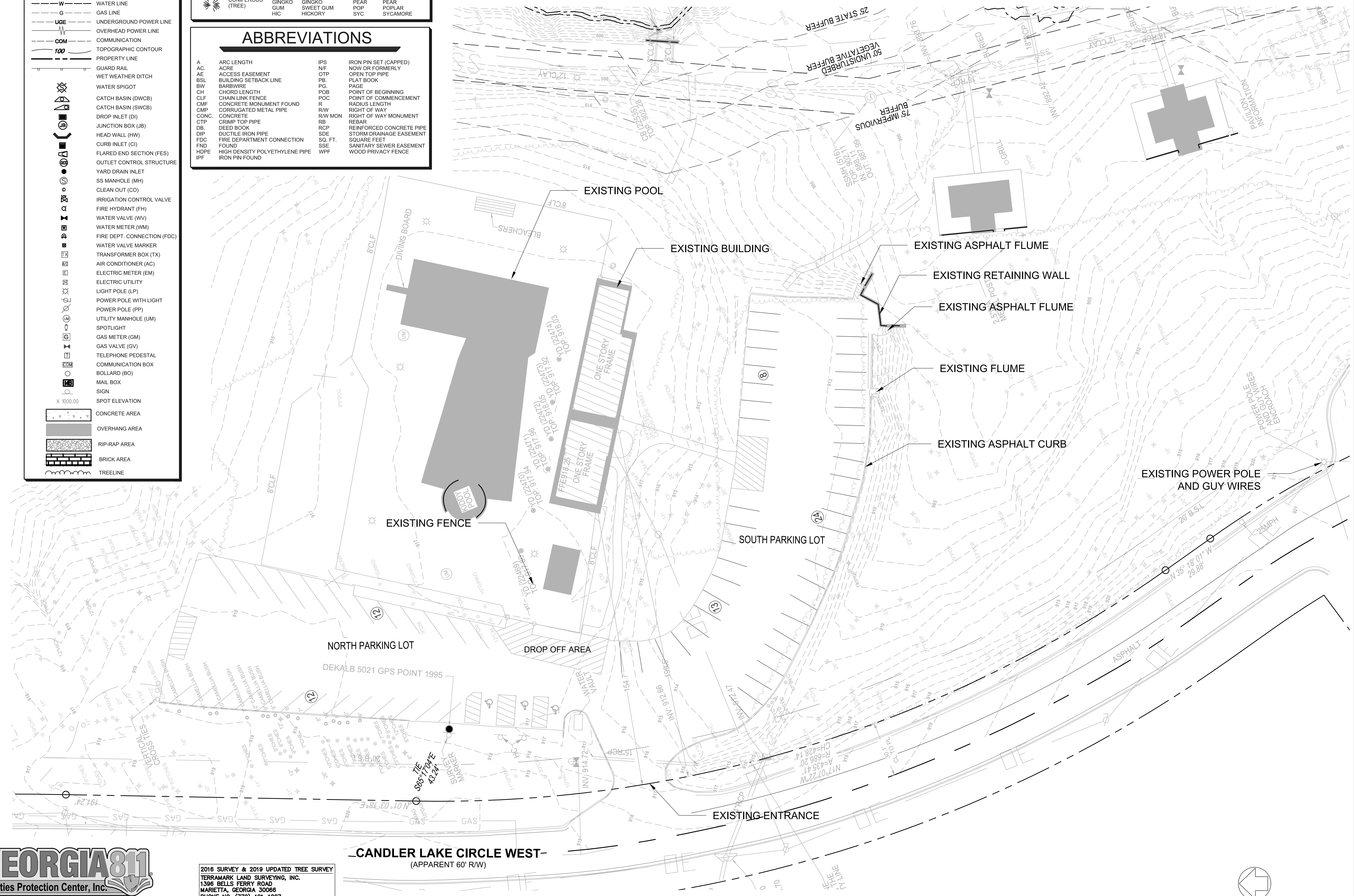
- CURB AND GUTTER (C&G)
- FENCE
- HANDRAIL
- STORM DRAIN LINE
- SANITARY SEWER
- WATER LINE
- GAS LINE
- UNDERGROUND POWER LINE
- OVERHEAD POWER LINE
- COMMUNICATION
- TOPOGRAPHIC CONTOUR
- PROPERTY LINE
- GUARD RAIL
- WET WEATHER DITCH
- WATER SPIGOT
- CATCH BASIN (DWCB)
- CATCH BASIN (SWCB)
- DROP INLET (DI)
- JUNCTION BOX (JB)
- HEAD WALL (HW)
- CURB INLET (CI)
- FLARED END SECTION (FES)
- OUTLET CONTROL STRUCTURE
- YARD DRAIN INLET
- SS MANHOLE (MH)
- CLEAN OUT (CO)
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT (FH)
- WATER VALVE (WV)
- WATER METER (WM)
- FIRE DEPT. CONNECTION (FDC)
- WATER VALVE MARKER
- TRANSFORMER BOX (TX)
- AIR CONDITIONER (AC)
- ELECTRIC METER (EM)
- ELECTRIC UTILITY
- LIGHT POLE (LP)
- POWER POLE WITH LIGHT
- POWER POLE (PP)
- UTILITY MANHOLE (UM)
- SPOTLIGHT
- GAS METER (GM)
- GAS VALVE (GV)
- TELEPHONE PEDESTAL
- COMMUNICATION BOX
- BOLLARD (BO)
- MAIL BOX
- SIGN
- SPOT ELEVATION
- CONCRETE AREA
- OVERHANG AREA
- RIP-RAP AREA
- BRICK AREA
- TREELINE

TREE LEGEND (ABBREVIATIONS)

| | | | | |
|-------------------|-----|--------------|------|------------|
| DECIDUOUS (TREE) | BIR | BIRCH | HLY | HOLLY |
| | BCH | BEECH | HW | HARDWOOD |
| | CM | CRAPE MYRTLE | MAG | MAGNOLIA |
| | CHY | CHERRY | MAP | MAPLE |
| | CYP | CYPRESS | OAK | OAK |
| CONIFEROUS (TREE) | FIR | FIR | ORN | ORNAMENTAL |
| | GIN | GINGKO | PEAR | PEAR |
| | GUM | SWEET GUM | POP | POPLAR |
| | HIC | HICKORY | SYC | SYCAMORE |

ABBREVIATIONS

| | | | |
|-------|--------------------------------|---------|--------------------------|
| A | ARC LENGTH | IPS | IRON PIN SET (CAPPED) |
| AC | ACRE | NIF | NOW OR FORMERLY |
| AE | ACCESS EASEMENT | OTP | OPEN TOP PIPE |
| BSL | BUILDING SETBACK LINE | PB | PLAT BOOK |
| BW | BARB WIRE | PG | PAGE |
| CH | CHORD LENGTH | POB | POINT OF BEGINNING |
| CLF | CHAIN LINK FENCE | POC | POINT OF COMMENCEMENT |
| CMF | CONCRETE MONUMENT FOUND | R | RADIUS LENGTH |
| CMP | CORRUGATED METAL PIPE | R/W | RIGHT OF WAY |
| CONC. | CONCRETE | R/W MON | RIGHT OF WAY MONUMENT |
| CTP | CRIMP TOP PIPE | RB | REBAR |
| DB | DEED BOOK | RCP | REINFORCED CONCRETE PIPE |
| DIP | DUCTILE IRON PIPE | SDE | STORM DRAINAGE EASEMENT |
| FDC | FIRE DEPARTMENT CONNECTION | SQ. FT. | SQUARE FEET |
| FND | FOUND | SSE | SANITARY SEWER EASEMENT |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE | WPF | WOOD PRIVACY FENCE |
| IPF | IRON PIN FOUND | | |



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Date last accessed: 11/17/2020 2:34 PM
Date last plotted: 11/18/2020 9:40 AM
Plotted By: Grace Zhong

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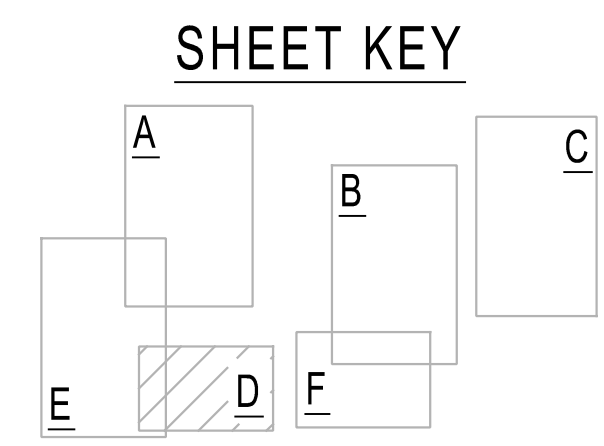
2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1306 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000810

SCALE: 1"=60'

- 1 MOBILIZATION, STAKING AND LAYOUT, 1 JOB
SEE C4 SHEET SERIES
A. MOBILIZATION, 1 JOB
B. STAKING, 1 JOB
- 2 DEMOLITION, 1 JOB
SEE DEMOLITION PLANS, C3 SERIES,
SEE ITEMS LISTED ON C3.6
- 3 SITE CLEARING & TREE PROTECTION - SEE C3 SHEET SERIES
A. TREE PRUNING FOR ADJACENT TREES
- 4 GRADING AND DRAINAGE, 1 JOB
C5 SHEET SERIES, ITEMS ON SHEET C5.6
A. NORTH PARKING LOT AND FIRE LANE GRADING 31,700 SF
B. SOUTH PARKING LOT GRADING - CURBS ONLY, 1,280 SF
C. SIDEWALK CONNECTION GRADING, 4,000 SF
D. DRAINAGE, SEE ITEMS LISTED ON C5.6

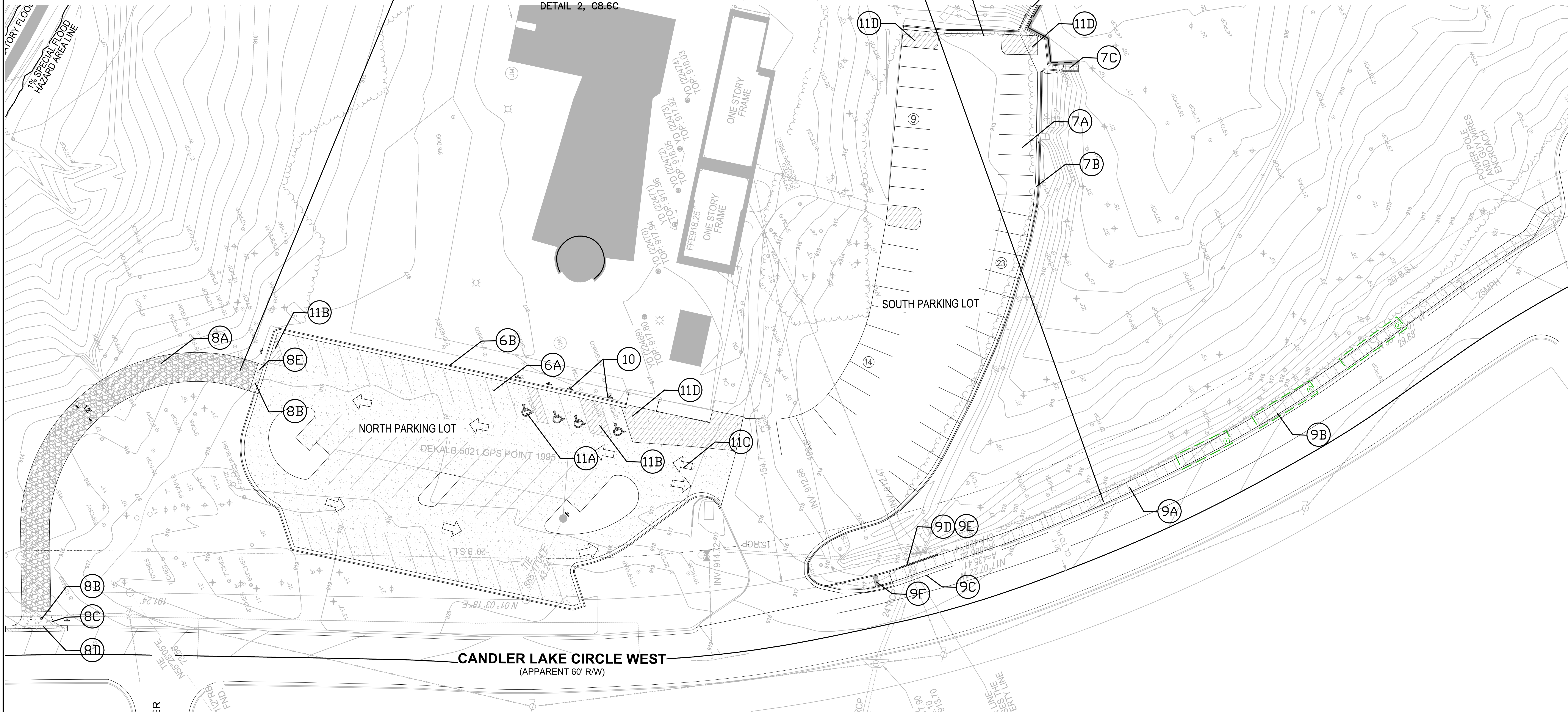
- 5 EROSION CONTROL, 1 JOB
SEE EROSION CONTROL PLANS, C7 SERIES (GSWCC APPROVED PLAN)
- 6 POOL PARKING - NORTH - NEW
A. ASPHALT PAVING - 20,000 SF, SEE DETAIL 1&4, C8.6A
B. CONCRETE CURB AND GUTTER - 520 LF, SEE DETAIL 6, C8.6A
- 7 POOL PARKING - SOUTH - RESURFACING
A. RESURFACING ASPHALT PAVING - 21,000 SF, SEE DETAIL 5, C8.6A
B. REPLACE CONCRETE CURB AND GUTTER - 380 LF, SEE DETAIL 6, C8.6A
C. PATCH DETERIORATED PAVEMENT AREA IN SOUTH LOT - 4,200 SF, SEE DETAIL 7, C8.6A
D. CONCRETE FLUME - 2 EA, DETAIL 7, C8.6B
(1) RIPRAP - 4 CY
- 8 FIRE TRUCK ACCESS
A. GRAVEL DRIVEWAY - 2,280 SF, SEE DETAIL 1, C8.6B
B. REMOVABLE BOLLARDS - 4 TOTAL, SEE DETAIL 2, C8.6B
C. CONCRETE CURB CUT - 70 SF, SEE DETAIL 12, C8.6A
D. CONCRETE APRON DEKALB DOT STANDARD - 90 SF, SEE DETAIL 8, C8.6B
E. CONCRETE PAVEMENT UNDER REMOVABLE BOLLARDS - 40 SF, SEE DETAIL 2, C8.6B
- 9 SIDEWALK CONNECTION
A. 5' WIDE CONCRETE SIDEWALK - 400 LF, 2,000 SF, SEE DETAIL 8, C8.6A
B. GRAVEL ROOT ZONE FOR SIDEWALK - 450 SF, SEE DETAIL 4, C8.6B
C. PROTECT EXISTING ROLL CURB - 400 LF
D. CONCRETE BORDER - 20 LF, SEE DETAIL 3, C8.6B
E. GUARDRAIL - 20 LF, SEE DETAIL 3 & 5, C8.6B
F. ADA DETECTIVE WARNING PAVER -10 SF, SEE DETAIL 6, C8.6B AND DETAIL 2, C8.6C

- 10 SITE SIGNAGE
A. ADA PARKING SIGN REINSTALLATION, 3 EA
B. ADA PARKING SIGN NEW, 1 EA
- 11 PARKING STRIPES - PAINTED
A. ADA SYMBOL - 4 EA
B. PARKING SPACE STRIPES - 2,000 LF
C. TRAFFIC ARROWS - 7 EA
D. PARKING ISLAND STRIPING - 8 EA
- 12 LANDSCAPING, 1 JOB, PLANT LIST SEE SHEET C9.6A
SEE PLANTING PLAN AND DETAIL SHEET C9.6 B&C
TREE PROTECTION, SEE SHEET C3 SERIES
- 13 FINAL CLEAN UP, 1 JOB @ 40,000 SF
SEE SPECIFICATIONS
- 14 TRAFFIC CONTROL PLAN, 1 JOB



ALTERNATE NOTE:
PROVIDE UNIT PRICE FOR FDR OF BOTH
PARKING LOTS AS A BID ALTERNATE.

QUANTITY NOTE:
QUANTITIES ARE GIVEN ONLY FOR CONVENIENCE TO THE
CONTRACTORS FOR CLARIFICATION OF THE CONSTRUCTION
ITEMS. LANDSCAPE ARCHITECT ACCEPTS NO RESPONSIBILITY
FOR THE ACCURACY OF THE QUANTITIES. CONTRACTORS
SHALL TAKE THEIR OWN QUANTITIES AS PART OF THEIR BID
WORK.



| No. | Date | Description |
|-----|-------|--|
| 11 | 09/17 | LDP - South Trail - City Contract #2 |
| 12 | 09/17 | LDP - South Trail - City Contract #2 |
| 13 | 10/13 | LDP - North Trail - City Contract #1 |
| 14 | 10/16 | LDP - North Trail - City Contract #1 |
| 15 | 10/19 | Multi-use Trail on Glen - Piedmont Contract #1 |
| 16 | 11/18 | LDP - Pool Parking - City Contract #2 |
| 17 | 11/20 | LDP - Community Green - City Contract #2 |
| 18 | 11/20 | LDP - Community Green - City Contract #2 |
| 19 | 11/20 | NORTH BONDWALK DESIGN/INSTALL |
| 20 | 12/01 | Multi-use Trail on Glen - Piedmont Contract #1 |
| 21 | 12/01 | Multi-use Trail on Glen - Piedmont Contract #2 |
| 22 | 12/30 | EMVCC - Submittal |
| 23 | 01/11 | COMMUNITY GREEN - BULB/DWG PERMIT #1 |
| 24 | 02/04 | EMVCC - Submittal #1 |
| 25 | 02/11 | EMVCC - Submittal #2 (DEKALB COUNTY) |
| 26 | 03/03 | EMVCC - Submittal #3 |
| 27 | 04/13 | LDP - Community Green - City Contract #2 |
| 28 | 04/15 | LDP - North Trail - City Contract #2 |
| 29 | 04/15 | LDP - Pool Parking - City Contract #2 |



CITY OF BROOKHAVEN
MURPHY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

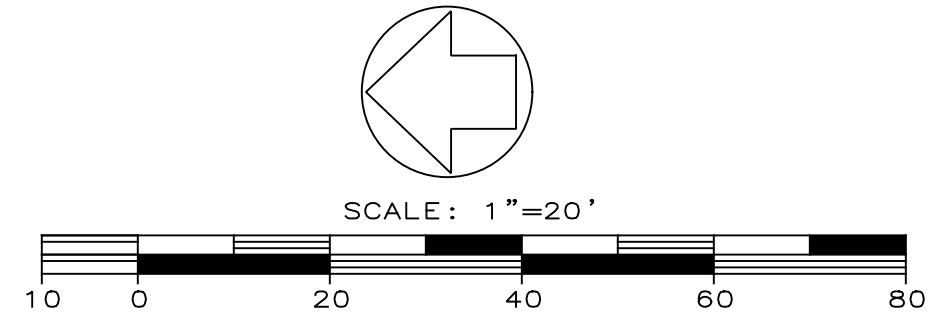
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|--------------------|--------------|---------|
| DATE | DRAWN | CHECKED |
| 03/03/21 | GZ | MC |
| SCALE | | |
| SHEET TITLE | | |
| CONSTRUCTION ITEMS | POOL PARKING | |

| | |
|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| C2.6 | |
| 4 | |
| DRAWING NUMBER | |



2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1306 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# LSF000810

NOTE:
THE WRESTED VEGETATION
AND 803 CONTOUR WERE
SURVEYED IN BY
TERRAMARK ON FEB. 4,
2021



Drawing Name: S:\Project\Brookhaven, C\Murphy Candler\0 Design\01 Job Info\CAD\C2 Series_MCP-Construction\Items.dwg
 Date last accessed: 4/14/2021 8:38 AM
 Date last plotted: 4/14/2021 8:54 AM
 Plotted By: Grace Zhang

Park Bond Project Tree Preservation Form

Park Name **Murphy Candler Park**
Project: POOL PARKING
22-Jun-21



Proposed Trees Removed - North Parking Lot

| ID | Species | Size (Inches DBH) | Condition | Status | Reason for Removal | QUANTITY |
|--------------------------------|---------------|-------------------|-----------|--------|-------------------------|----------|
| N1 | SWEETGUM | 10 | | | PARKING LOT | 1 |
| N2 | HICKORY | 12 | | | ACCESS ROAD | 1 |
| N3 | HICKORY | 7 | | | ACCESS ROAD | 1 |
| N4 | POPLAR | 13 | | | ACCESS ROAD | 1 |
| N5 | WHITE OAK | 12 | | | ACCESS ROAD | 1 |
| N6 | LOBLOLLY PINE | 22 | | | ACCESS ROAD | 1 |
| N7 | CAMELLIA BUSH | 10 | | | PARKING LOT, WEEDY BUSH | 1 |
| N8 | CAMELLIA BUSH | 11 | | | PARKING LOT, WEEDY BUSH | 1 |
| N9 | CAMELLIA BUSH | 10 | | | PARKING LOT, WEEDY BUSH | 1 |
| N10 | CAMELLIA BUSH | 7 | | | PARKING LOT, WEEDY BUSH | 1 |
| N11 | LOBLOLLY PINE | 12 | | | PARKING LOT, WEEDY BUSH | 1 |
| N12 | CAMELLIA BUSH | 9 | | | PARKING LOT, WEEDY BUSH | 1 |
| N13 | CAMELLIA BUSH | 9 | | | PARKING LOT, WEEDY BUSH | 1 |
| N14 | LOBLOLLY PINE | 12 | | | PARKING LOT | 1 |
| N15 | CAMELLIA BUSH | 6 | | | PARKING LOT, WEEDY BUSH | 1 |
| N16 | CAMELLIA BUSH | 7 | | | PARKING LOT, WEEDY BUSH | 1 |
| N17 | CAMELLIA BUSH | 8 | | | PARKING LOT, WEEDY BUSH | 1 |
| N18 | CAMELLIA BUSH | 10 | | | PARKING LOT, WEEDY BUSH | 1 |
| N19 | CAMELLIA BUSH | 6 | | | PARKING LOT, WEEDY BUSH | 1 |
| N20 | CAMELLIA BUSH | 10 | | | PARKING LOT, WEEDY BUSH | 1 |
| N21 | CAMELLIA BUSH | 9 | | | PARKING LOT, WEEDY BUSH | 1 |
| N22 | CHESTNUT | 10 | | | PARKING LOT | 1 |
| N23 | CHESTNUT | 6 | | | PARKING LOT | 1 |
| N24 | CHESTNUT | 6 | | | PARKING LOT | 1 |
| N25 | CHESTNUT | 7 | | | PARKING LOT | 1 |
| N26 | CHESTNUT | 9 | | | PARKING LOT | 1 |
| N27 | CHESTNUT | 9 | | | PARKING LOT | 1 |
| N28 | CHESTNUT | 7 | | | PARKING LOT | 1 |
| N29 | CHESTNUT | 6 | | | PARKING LOT | 1 |
| N30 | CHESTNUT | 8 | | | PARKING LOT | 1 |
| N31 | CHESTNUT | 12 | | | PARKING LOT | 1 |
| N32 | CHESTNUT | 8 | | | PARKING LOT | 1 |
| N33 | CHESTNUT | 8 | | | PARKING LOT | 1 |
| N34 | CHESTNUT | 7 | | | PARKING LOT | 1 |
| N35 | CHESTNUT | 13 | | | PARKING LOT | 1 |
| N36 | CHESTNUT | 7 | | | PARKING LOT | 1 |
| N37 | CHESTNUT | 7 | | | PARKING LOT | 1 |
| N38 | MAGNOLIA | 6 | | | PARKING LOT | 1 |
| N39 | CHESTNUT | 9 | | | PARKING LOT | 1 |
| N40 | CHESTNUT | 8 | | | PARKING LOT | 1 |
| N41 | CHESTNUT | 9 | | | PARKING LOT | 1 |
| N42 | LOBLOLLY PINE | 12 | | | PARKING LOT | 1 |
| N43 | CHESTNUT | 7 | | | PARKING LOT | 1 |
| N44 | LOBLOLLY PINE | 26 | | | PARKING LOT | 1 |
| N45 | BLACK CHERRY | 8 | | | PARKING LOT | 1 |
| N46 | BLACK CHERRY | 8 | | | PARKING LOT | 1 |
| N47 | BLACK CHERRY | 8 | | | PARKING LOT | 1 |
| Total Inches Removed: | | | | | | 443 |
| Total Number of Trees Removed: | | | | | | 47 |

South Parking Lot

| ID | Species | Size (Inches DBH) | Condition | Status | Reason for Removal | QUANTITY |
|--------------------------------|---------------|-------------------|-----------|--------|---------------------|----------|
| S1 | SYCAMORE | 17 | | | GROWN INTO PAVEMENT | 1 |
| S2 | DOGWOOD | 8 | | | NEW RIP RAP | 1 |
| S3 | LOBLOLLY PINE | 20 | | | GROWN INTO PAVEMENT | 1 |
| S4 | LOBLOLLY PINE | 18 | | | NEW RIP RAP | 1 |
| S5 | LOBLOLLY PINE | 17 | | | GROWN INTO PAVEMENT | 1 |
| S6 | LOBLOLLY PINE | 24 | | | GROWN INTO PAVEMENT | 1 |
| S7 | LOBLOLLY PINE | 12 | | | GROWN INTO PAVEMENT | 1 |
| S8 | LOBLOLLY PINE | 7 | | | GROWN INTO PAVEMENT | 1 |
| S9 | LOBLOLLY PINE | 25 | | | NEW RIP RAP | 1 |
| Total Inches Removed: | | | | | | 148 |
| Total Number of Trees Removed: | | | | | | 9 |

CHART B SOUTH PARKING LOT TREE REMOVAL

Parking Yield Comparison

| | BEFORE | AFTER | Change |
|-------------------|--------|-------|---------|
| North Parking Lot | 27 | 54 | 27 More |
| South Parking Lot | 45 | 45 | 0 |

CHART C PARKING YIELD COMPARISON

1 TREE PROTECTION FENCE NOTES

- DEMOLITION NOTES:
- CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES WITHOUT INTERFERING WITH VEHICLE AND PEDESTRIAN TRAFFIC IN ADJACENT AREAS.
 - CONTRACTOR SHALL PROTECT UTILITIES AND BENCHMARKS NOT SCHEDULED FOR DEMOLITION FROM DAMAGE. AT NO ADDITIONAL COST TO OWNER, THE CONTRACTOR SHALL REPLACE OR REPAIR ITEMS DAMAGED BEYOND THE LIMITS OF THE DEMOLITION SHOWN.
 - DISCONNECT AND SEAL OFF ABANDONED UTILITIES TO BE REMOVED PRIOR TO THE START OF ANY DEMOLITION ACTIVITIES. UTILITIES SHALL BE DISCONNECTED BELOW EXISTING GRADE LEVEL, OR OUTSIDE OF CONTRACT LIMITS BY REPRESENTATIVES OF THE PUBLIC UTILITY BEING DISCONNECTED. MAINTAIN UTILITY SERVICE TO FACILITIES IN USE.
 - EXCEPT FOR ITEMS DESIGNATED TO BE REMOVED OR REUSED IN THE WORK, ALL MATERIALS RESULTING FROM THIS WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE PROMPTLY REMOVED FROM THE SITE. STORAGE OR SALE OF REMOVED MATERIALS WILL NOT BE PERMITTED ON PROJECT SITE.
 - REMOVE ALL DEBRIS, RUBBISH, AND WASTE MATERIALS FROM THE SITE. DO NOT STOCKPILE DEBRIS ON SITE.
 - ALL MATERIALS SHALL BE DISPOSED OF IN A LEGAL MANNER.
 - CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY THE GOVERNING AGENCY HAVING JURISDICTION.
 - ALL LAND DISTURBANCE TO BE STABILIZED WITH VEGETATION UPON COMPLETION OF DEMOLITION PER THE EROSION AND CONTROL PLANS.
 - ALL TREES TO REMAIN SHALL HAVE PROPER PROTECTION UNLESS APPROVED PLANS INDICATES OTHERWISE.
 - DUMPSTERS AND/OR TEMPORARY SANITARY FACILITIES SHALL NOT BE LOCATED IN THE STREET AND TREE PROTECTION AREA.
 - SAWCUT PAVEMENTS, CURBS, AND/OR WALLS WHOLE TO PROVIDE SMOOTH TRANSITION BETWEEN IMPROVEMENTS TO REMAIN & NEW IMPROVEMENTS.

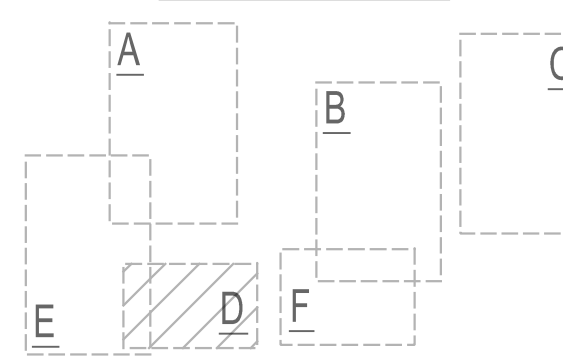
- TREE PROTECTION NOTES:
- NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE ALLOWED WITHIN TREE PROTECTION AREAS.
 - ONLY FILL IS ALLOWED INSIDE CRITICAL ROOT ZONE (CRZ). NO CUT IS PERMITTED. NO TRENCHING THROUGH CRITICAL ROOT ZONE. ALL FILL MATERIAL WITHIN DRIP LINES MUST BE TOPSOIL.
 - TREES IDENTIFIED TO BE PRESERVED AND COUNTED TOWARD THE TREE DENSITY REQUIREMENTS SHALL HAVE FOUR FOOT ORANGE TREE PROTECTION FENCING AND STAKED HAY BALES INSTALLED AT OR BEYOND THE CRITICAL ROOT ZONE.
 - TREE SAVE FENCE REQUIRED AROUND ALL TREE ROOT ZONES WITHIN THE LIMIT OF DISTURBANCE. TREE FENCE CAN BE REMOVED ONLY WHEN WORKING IN THE IMMEDIATE AREA. TREE FENCE MUST BE RESET AT COMPLETION OF WORK. PLACE ON THE FENCING STATING "KEEP OUT."
 - A TWO-INCH LAYER OF MULCH AND MYCORRHIZAE FUNGI SHALL BE APPLIED OVER THE CRITICAL ROOT ZONE PRIOR TO CONSTRUCTION.
 - ALL TREE PROTECTION FENCE TO BE INSPECTED DAILY.
 - TREE DENSITY: BASED ON CITY ARBORIST, EXISTING PARK SITE DENSITY EXCEEDS MIN. REQUIRED FULL TREE DENSITY CALCULATION IS EXEMPTED FOR THIS PARK.
 - GRIND STUMPS TO EXISTING GRADE BEFORE GRADING WORK BEGINS. PROVIDE MINIMUM COVER OF 1" FOR FINISH GRADE.
 - GENERAL CONTRACTOR TO COORDINATE PRESCRIPTIVE MEASURES WITH CITY CONTRACTED ARBORIST/TREE SERVICE COMPANY.
 - ROOT BRIDGE IS REQUIRED FOR ALL WORK WITHIN ROOT ZONE.
 - TRAIL TO BE STAKED AND REVIEWED FOR POSSIBLE ADJUSTMENT BEFORE CONSTRUCTION.

GENERAL SITE DEBRIS & FINE GRADING NOTE:
THERE ARE VARIOUS SMALL ITEMS ON THE SITE THAT WILL BE AFFECTED BY DEMOLITION AND CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO PROTECT PERMANENT ITEMS AND WORK AROUND OR REMOVE OTHER ITEMS AS NEEDED. THE FINAL SITE TO BE LEFT CLEAN AND FINE-GRADED. THE CONTRACTOR IS TO REMOVE ANY DIPS, GULLIES, PITS OR OTHER IRREGULARITIES WITHIN THE WORK LIMITS OF THE PROJECT.

SITE VISIT:
CONTRACTOR SHALL VISIT THE SITE TO VALIDATE ALL DEMOLITION ITEMS AND VERIFY QUANTITIES.

CITY ARBORIST NOTE:
WHEN AN ARBORIST IS REQUIRED BY THE CONTRACT TO BE ON SITE DURING CONSTRUCTION, THE CITY ARBORIST CAN TAKE THAT ROLE.

SHEET KEY



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 31 | 04/29 | Multi-Use Trail as Shown - Product Review |
| 32 | 05/05 | LOP - General Note - City Comments |
| 33 | 05/14 | LOP - Revision - City Comments |
| 34 | 05/28 | LOP - General Note - City Comments |
| 35 | 06/15 | GENERIC/REVISIONS: Issue and Res |
| 36 | 07/26 | LOP - POOL PARKING - CITY COMMENT #1 |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

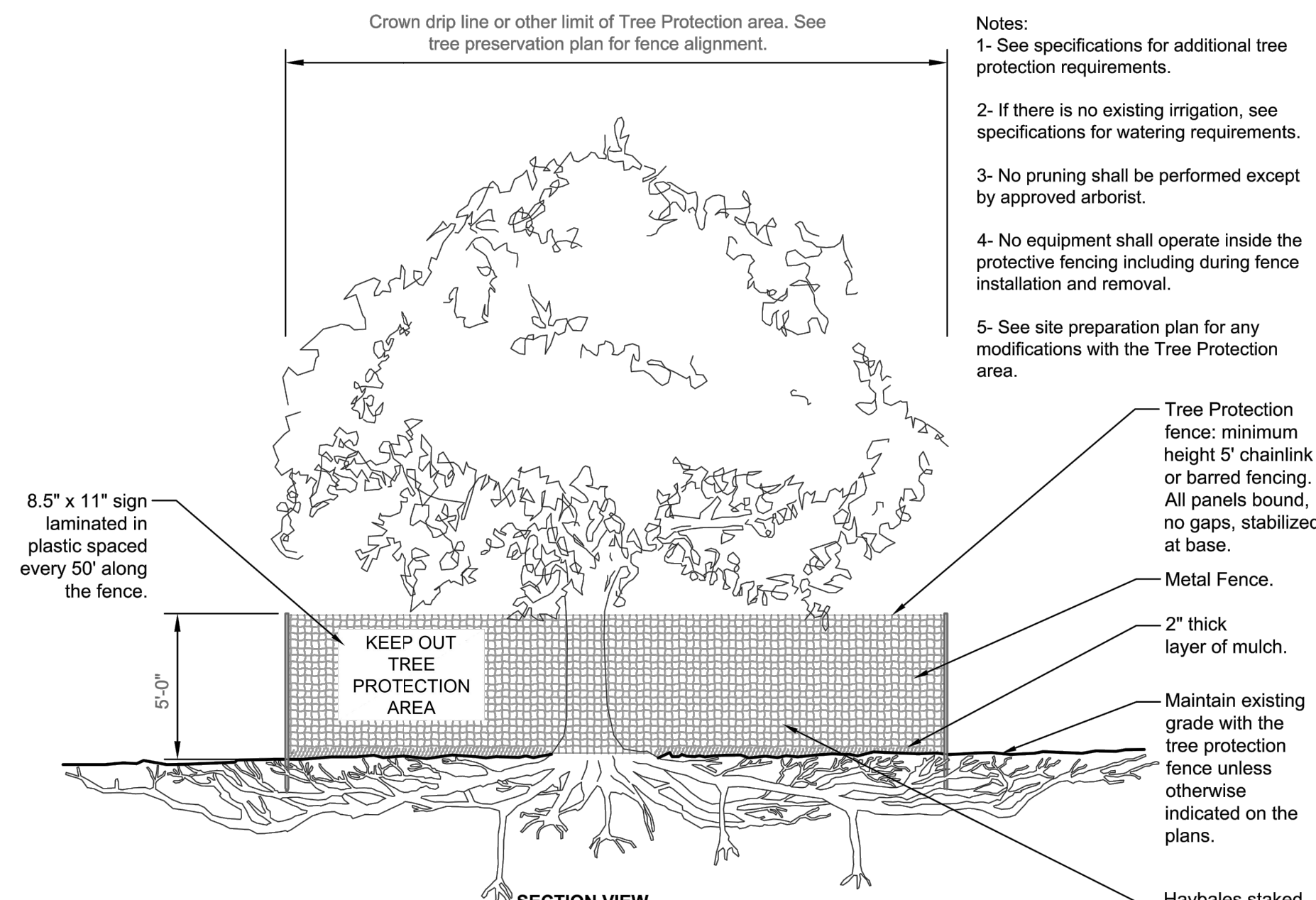
| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 03/03/21 | GZ | MC |

DEMO PLAN
POOL PARKING

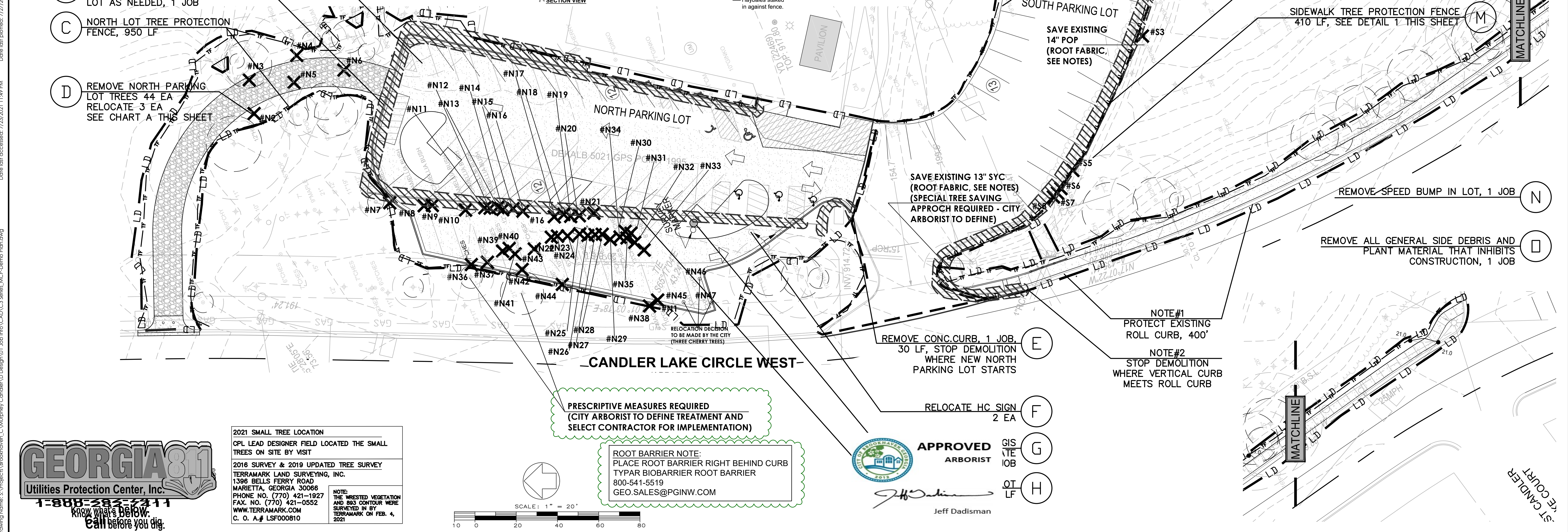
| | |
|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| C3.6 | |
| 5 | |
| DRAWING NUMBER | |

CHART A NORTH PARKING LOT TREE REMOVAL

- A REMOVE NORTH ASPHALT PARKING LOT AND BASE, 14,900 SF
- B REMOVE AND SALVAGE ALL NORTH LOT WHEEL STOP; REUSE IN SOUTH LOT AS NEEDED, 1 JOB
- C NORTH LOT TREE PROTECTION FENCE, 950 LF
- D REMOVE NORTH PARKING LOT TREES 44 EA RELOCATE 3 EA SEE CHART A THIS SHEET



- Notes:
- See specifications for additional tree protection requirements.
 - If there is no existing irrigation, see specifications for watering requirements.
 - No pruning shall be performed except by approved arborist.
 - No equipment shall operate inside the protective fencing including during fence installation and removal.
 - See site preparation plan for any modifications with the Tree Protection area.



No machine trenching through Critical Root Zone. Hand-dig where silt fence (SD-1) crosses the Critical Root Zone of any tree. Root prune as needed according to ISA/ANSI professional standards.

SAVE EXISTING 18" SYC (ROOT FABRIC. SEE NOTES)

REMOVE SOUTH LOT TREES, 9 EA

SALVAGE AND REUSE ALL SOUTH LOT WHEEL STOP 1 JOB

REMOVE ALL CURB, SAW CUT THE ASPHALT TO HAVE A CLEAN EDGE FOR NEW CURB AND GUTTER 1 JOB 365 LF

SOUTH LOT TREE PROTECTION FENCE 600 LF, SEE DETAIL 1 THIS SHEET

SIDEWALK TREE PROTECTION FENCE 410 LF, SEE DETAIL 1 THIS SHEET

SAVE EXISTING 14" POP (ROOT FABRIC. SEE NOTES)

SAVE EXISTING 13" SYC (ROOT FABRIC. SEE NOTES) (SPECIAL TREE SAVING APPROACH REQUIRED - CITY ARBORIST TO DEFINE)

REMOVE SPEED BUMP IN LOT, 1 JOB

REMOVE ALL GENERAL SIDE DEBRIS AND PLANT MATERIAL THAT INHIBITS CONSTRUCTION, 1 JOB

REMOVE CONC. CURB, 1 JOB 30 LF, STOP DEMOLITION WHERE NEW NORTH PARKING LOT STARTS

NOTE #1 PROTECT EXISTING ROLL CURB, 400'

NOTE #2 STOP DEMOLITION WHERE VERTICAL CURB MEETS ROLL CURB

RELOCATE HC SIGN 2 EA

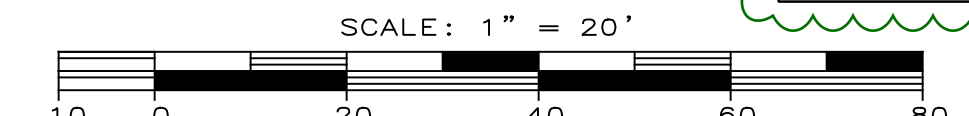
PRESCRIPTIVE MEASURES REQUIRED (CITY ARBORIST TO DEFINE TREATMENT AND SELECT CONTRACTOR FOR IMPLEMENTATION)

ROOT BARRIER NOTE: PLACE ROOT BARRIER RIGHT BEHIND CURB TYPAR BIOBARRIER ROOT BARRIER 800-541-5519 GEO.SALES@PGINW.COM



2021 SMALL TREE LOCATION
CPL LEAD DESIGNER FIELD LOCATED THE SMALL TREES ON SITE BY VISIT
2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1396 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A. LSF000810

NOTE: THE WRESTED VEGETATION AND B&S CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021



Drawing Name: S:\Projects\Brookhaven-C\Murphy Candler Park\Design\01 Job Info\CAD\C3 Series\MCP-Demo Plan.dwg
Date last plotted: 7/27/2021 9:05 AM
Date last accessed: 7/27/2021 11:49 PM
Plotter: GZ

GENERAL LAYOUT NOTES:

1. INSTALL JOINTS WHERE SHOWN. ALIGN ON WALLS, BUILDINGS, RADII, ETC. EVENLY SPACE BETWEEN ELEMENTS AS SHOWN. PROVIDE EXPANSION JOINTS BETWEEN CONCRETE PAVEMENT AND VERTICAL ELEMENTS (WALLS, CURBS, ETC.).
2. LAYOUT ALL CURVES SMOOTHLY WITH NO ABRUPT CHANGES AT TANGENT POINTS.
3. GENERAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL SLEEVES.
4. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
5. LAYOUT ALL ELEMENTS IN FIELD AND CONTACT OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE BEGINNING ANY CONSTRUCTION.
6. CONTRACTOR TO TAKE ALL PRECAUTIONS TO FIND AND AVOID SITE UTILITIES. ALL UTILITIES ARE NOT SHOWN ON DRAWING. VERIFY LOCATIONS AND CONSIDER WHEN ESTIMATING.
7. ALL PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
8. ALL GRADE ELEVATIONS AND HORIZONTAL CONTROL TO BE SET FROM PROJECT BENCHMARK NOTED ON PLANS.

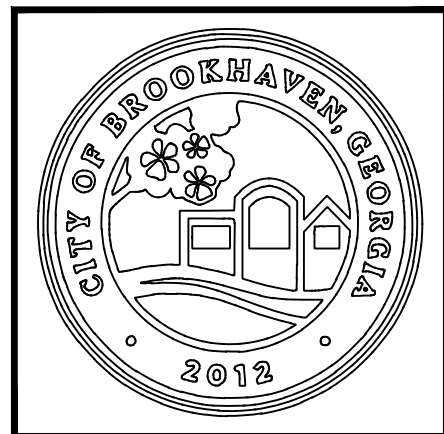
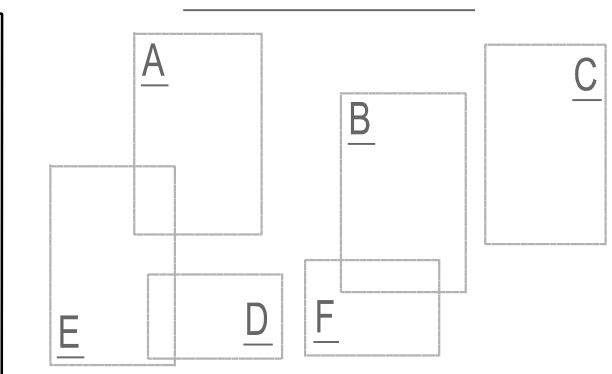
TREE NOTES:

1. ALL SPECIMEN TREES WILL BE PROTECTED.
2. NO ENCROACHMENT INSIDE CRITICAL ROOT PLATE (CRP).
3. ENCROACHMENT INSIDE CRITICAL ROOT ZONE (CRZ) IS MAX. 20%.
4. SPECIAL DETAIL WILL BE UTILIZED FOR SIDEWALK PAVEMENT OVER TREE ROOTS.

LIMIT OF DISTURBANCE: THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, MATERIALS STORAGE, GRADING, LANDSCAPING AND RELATED ACTIVITIES SHALL OCCUR.

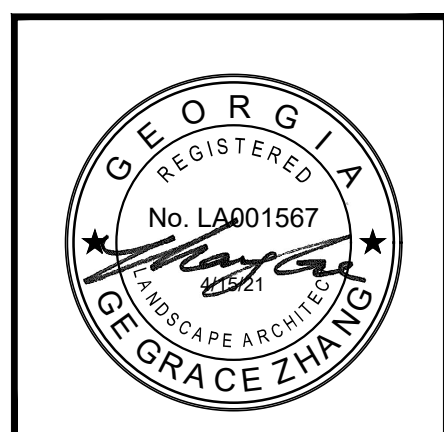
LIMIT OF WORK: THE BOUNDARY WITHIN ONLY MAINTENANCE TYPE OF WORK, NO NEW CONSTRUCTION SHALL OCCUR.

SHEET KEY



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 11 | 08/17 | LDP - South Trail - City Comment #2 |
| 12 | 08/17 | LDP - Pool Parking - City Comment #2 |
| 13 | 10/13 | LDP - Pool Parking - City Comment #1 |
| 14 | 10/18 | LDP - Nature Play Area Field Change #2 |
| 15 | 10/19 | Multi-use Trail on Oaks - Final Plan Review |
| 16 | 11/18 | LDP - Pool Parking - City Comment #2 |
| 17 | 11/20 | LDP - Community Green - City Comment #2 |
| 18 | 11/20 | LDP - Community Green - City Comment #2 |
| 19 | 11/20 | NORTH SIDEWALKS DESIGN/ASBUILT |
| 20 | 12/01 | Multi-use Trail on Oaks - Final Plan Review |
| 21 | 12/11 | Multi-use Trail on Oaks - Final Plan Review |
| 22 | 12/30 | SPRINKLER |
| 23 | 01/11 | Community Green - BUILDING PERMIT |
| 24 | 02/04 | SPRINKLER |
| 25 | 02/11 | SPRINKLER/CONCRETE DESIGN/ASBUILT UPDATE |
| 26 | 03/03 | SPRINKLER |
| 27 | 04/13 | LDP - Community Green - City Comment #1 |
| 28 | 04/15 | LDP - Horizontal - City Comment #2 |
| 29 | 04/15 | LDP - Pool Parking - City Comment #2 |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

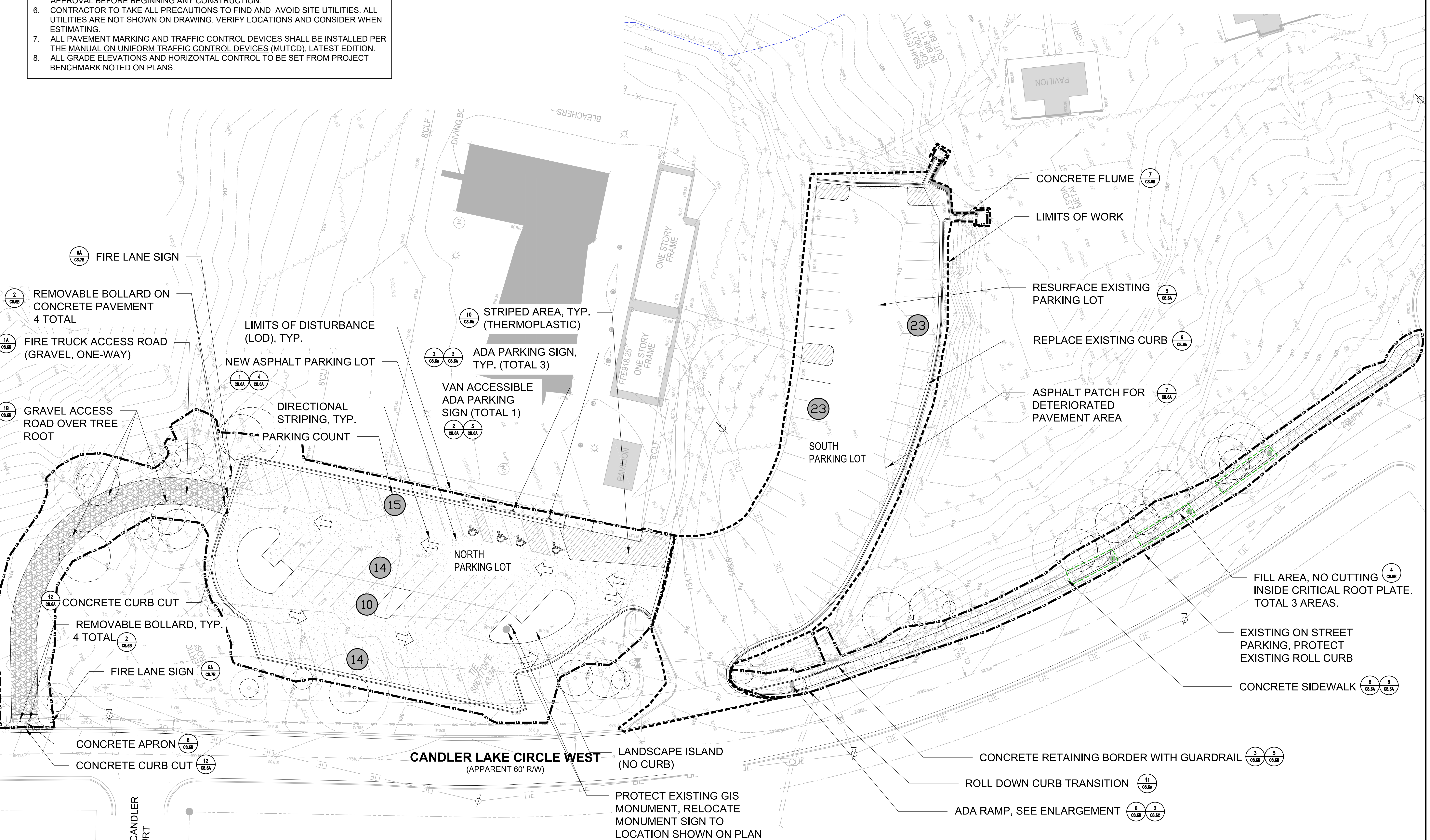
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|----------|-------|---------|
| DATE | DRAWN | CHECKED |
| 03/03/21 | GZ | MC |

LAYOUT PLAN
POOL PARKING

| | |
|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| DRAWING NUMBER | C4.6A |
| DRAWING NUMBER | 6 |

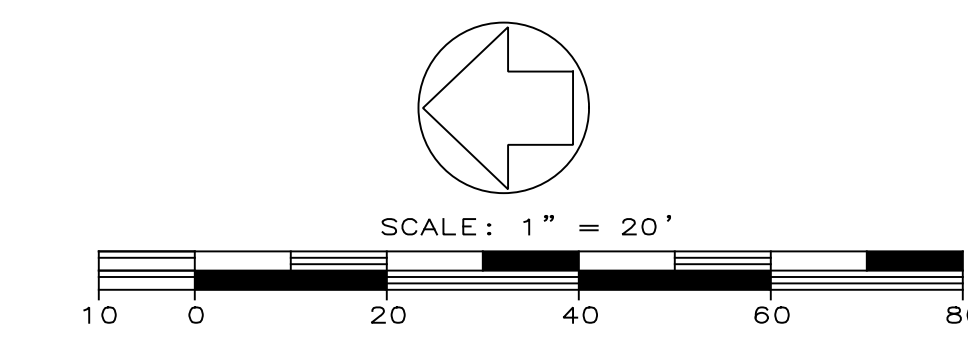
APPROVED PLAN 08/18/2021
Permit # LDP20-00020

Drawing Name: S:\Projects\Brookhaven_C\Murphey Candler\0 Design\01 Job Info\CAD\3 Issues_MCP-LAYOUT Plan.dwg
 Date last accessed: 4/16/2021 9:30 AM
 Date last plotted: 4/16/2021 9:37 AM
 Plotted by: Grace Zhong



2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1306 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000610

NOTE:
THE WRESTED VEGETATION
AND 80% CONTOUR WERE
SURVEYED IN BY
TERRAMARK ON FEB. 4,
2021

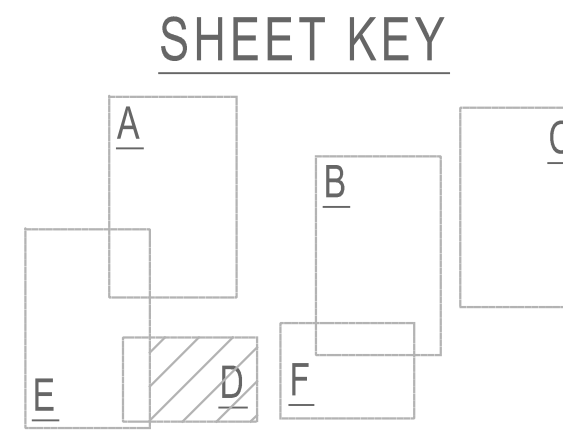


| Point # | Northing | Easting |
|---------|------------|------------|
| 1 | 1423498.75 | 2247911.53 |
| 2 | 1423498.75 | 2247914.30 |
| 3 | 1423490.88 | 2247921.12 |
| 4 | 1423476.89 | 2247921.30 |
| 5 | 1423491.38 | 2247950.72 |
| 6 | 1423477.38 | 2247950.82 |
| 7 | 1423477.54 | 2247961.93 |
| 8 | 1423491.55 | 2247962.29 |
| 9 | 1423373.91 | 2248040.30 |
| 10 | 1423378.12 | 2248026.95 |
| 11 | 1423368.71 | 2248056.80 |
| 12 | 1423366.23 | 2248057.60 |
| 13 | 1423328.76 | 2248049.47 |
| 14 | 1423288.06 | 2248040.64 |
| 15 | 1423247.32 | 2248031.70 |
| 16 | 1423206.66 | 2248022.99 |
| 17 | 1423200.61 | 2248004.28 |
| 18 | 1423158.51 | 2248012.84 |
| 19 | 1423142.27 | 2248015.39 |
| 20 | 1423145.79 | 2247998.97 |

| Point # | Northing | Easting |
|---------|------------|------------|
| 21 | 1423153.31 | 2247971.37 |
| 22 | 1423168.40 | 2247975.31 |
| 23 | 1423221.85 | 2247943.70 |
| 24 | 1423224.20 | 2247939.82 |
| 25 | 1423219.16 | 2247924.25 |
| 26 | 1423224.59 | 2247922.49 |
| 27 | 1423258.79 | 2247929.77 |
| 28 | 1423299.43 | 2247938.44 |
| 29 | 1423340.08 | 2247947.10 |
| 30 | 1423360.40 | 2247951.43 |
| 31 | 1423366.27 | 2247969.53 |
| 32 | 1423368.56 | 2247972.34 |
| 33 | 1423383.43 | 2248010.10 |
| 34 | 1423203.96 | 2247987.08 |
| 35 | 1423198.03 | 2247968.26 |
| 36 | 1423235.85 | 2247959.74 |
| 37 | 1423232.55 | 2247959.13 |
| 38 | 1423237.43 | 2247964.69 |
| 39 | 1423221.06 | 2247969.33 |
| 40 | 1423227.73 | 2247975.37 |

| Point # | Northing | Easting |
|---------|------------|------------|
| 41 | 1423278.50 | 2247986.38 |
| 42 | 1423288.58 | 2247988.67 |
| 43 | 1423339.43 | 2247999.59 |
| 44 | 1423341.81 | 2247996.95 |
| 45 | 1423348.48 | 2248003.00 |
| 46 | 1423351.97 | 2247999.15 |
| 47 | 1423358.64 | 2248005.20 |
| 48 | 1423351.16 | 2248013.44 |
| 49 | 1423353.44 | 2248020.02 |
| 50 | 1423354.29 | 2247985.21 |
| 51 | 1423351.60 | 2247986.17 |
| 52 | 1423468.86 | 2247914.56 |
| 53 | 1423468.87 | 2247911.89 |
| 54 | 1423102.06 | 2247933.33 |
| 55 | 1423207.84 | 2247933.64 |
| 56 | 1423070.33 | 2247935.70 |
| 57 | 1423058.41 | 2247939.71 |
| 58 | 1423030.05 | 2247949.25 |
| 59 | 1423001.54 | 2247959.42 |
| 60 | 1422973.62 | 2247970.92 |

| Point # | Northing | Easting |
|---------|------------|------------|
| 61 | 1422946.12 | 2247983.31 |
| 62 | 1422919.07 | 2247996.71 |
| 63 | 1422892.67 | 2248011.33 |
| 64 | 1422866.98 | 2248027.45 |
| 65 | 1422842.27 | 2248044.78 |
| 66 | 1422817.93 | 2248062.31 |
| 67 | 1422793.61 | 2248079.79 |
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| 69 | 1422760.43 | 2248101.94 |
| 70 | 1422754.41 | 2248112.22 |
| 71 | 1422747.08 | 2248117.04 |



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CITY OF BROOKHAVEN

DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 11 | 09/17 | LDP - South Trail - City Comment #2 |
| 12 | 09/17 | LDP - South Trail - City Comment #1 |
| 13 | 10/13 | LDP - Pool Parking - City Comment #1 |
| 14 | 10/16 | LDP - Habitat Play Area Field Change #1 |
| 15 | 10/19 | Matchline Trail on Date - Redwood Row |
| 16 | 11/16 | LDP - Pool Parking - City Comment #2 |
| 17 | 11/20 | LDP - Community Green - City Comment #2 |
| 18 | 11/20 | LDP - Community Green - City Comment #1 |
| 19 | 11/20 | NORTH BONDWELL DESIGN/ISSUE |
| 20 | 12/01 | Matchline Trail on Date - Redwood Row |
| 21 | 12/01 | Matchline Trail on Date - Redwood Row |
| 22 | 12/02 | ISSUE/ISSUE |
| 23 | 01/11 | COMMUNITY GREEN - BLDG/DMD PERMIT #1 |
| 24 | 02/04 | ISSUE/ISSUE |
| 25 | 02/11 | ISSUE/ISSUE/ISSUE/ISSUE/ISSUE/ISSUE |
| 26 | 03/03 | ISSUE/ISSUE/ISSUE |
| 27 | 04/13 | LDP - Community Green - City Comment #1 |
| 28 | 04/15 | LDP - Habitat - City Comment #2 |
| 29 | 04/15 | LDP - Pool Parking - City Comment #1 |

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. LA001567
GEORGE ZHANG

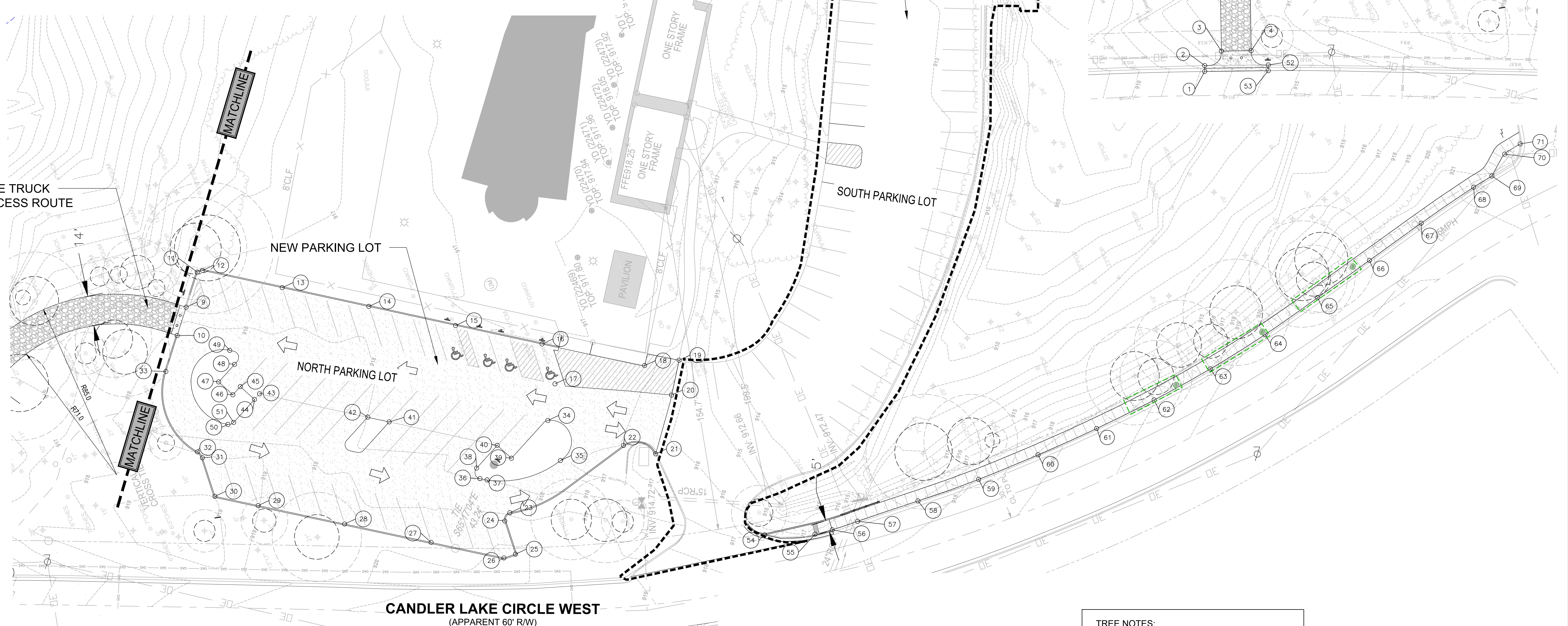
GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 24002
JAMES W. MUELLER

CITY OF BROOKHAVEN
MURPHY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 03/03/21 | GZ | MC |

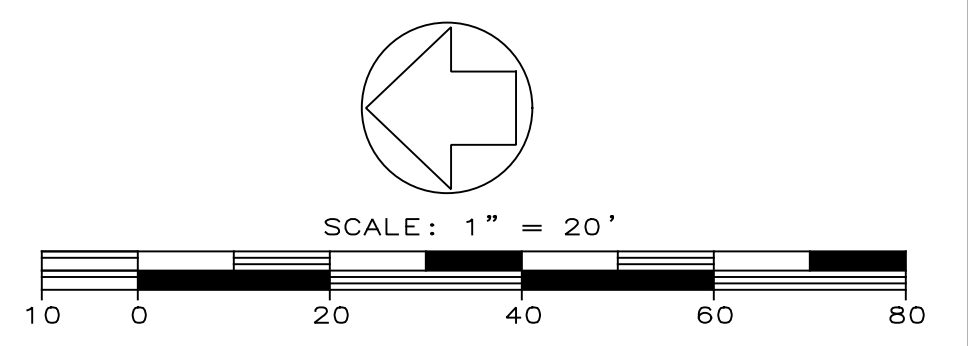
STAKING PLAN
POOL PARKING

| |
|----------------------------|
| PROJECT NUMBER 15092.00 |
| C4.6B |
| 7 |
| DRAWING NUMBER |



TREE NOTES:
1. NO SPECIMEN TREES ON SITE.
2. SPECIAL DETAIL WILL BE UTILIZED FOR SIDEWALK PAVEMENT OVER TREE ROOTS.

ADJUSTMENT NOTES:
STAKING MAY BE SUBJECT TO SAME ADJUSTMENT IN THE FIELD AFTER STAKEOUT IS COMPLETE, ADJUSTMENT WILL BE MADE TO ACCOMMODATE EXISTING CONDITIONS ON SITE.

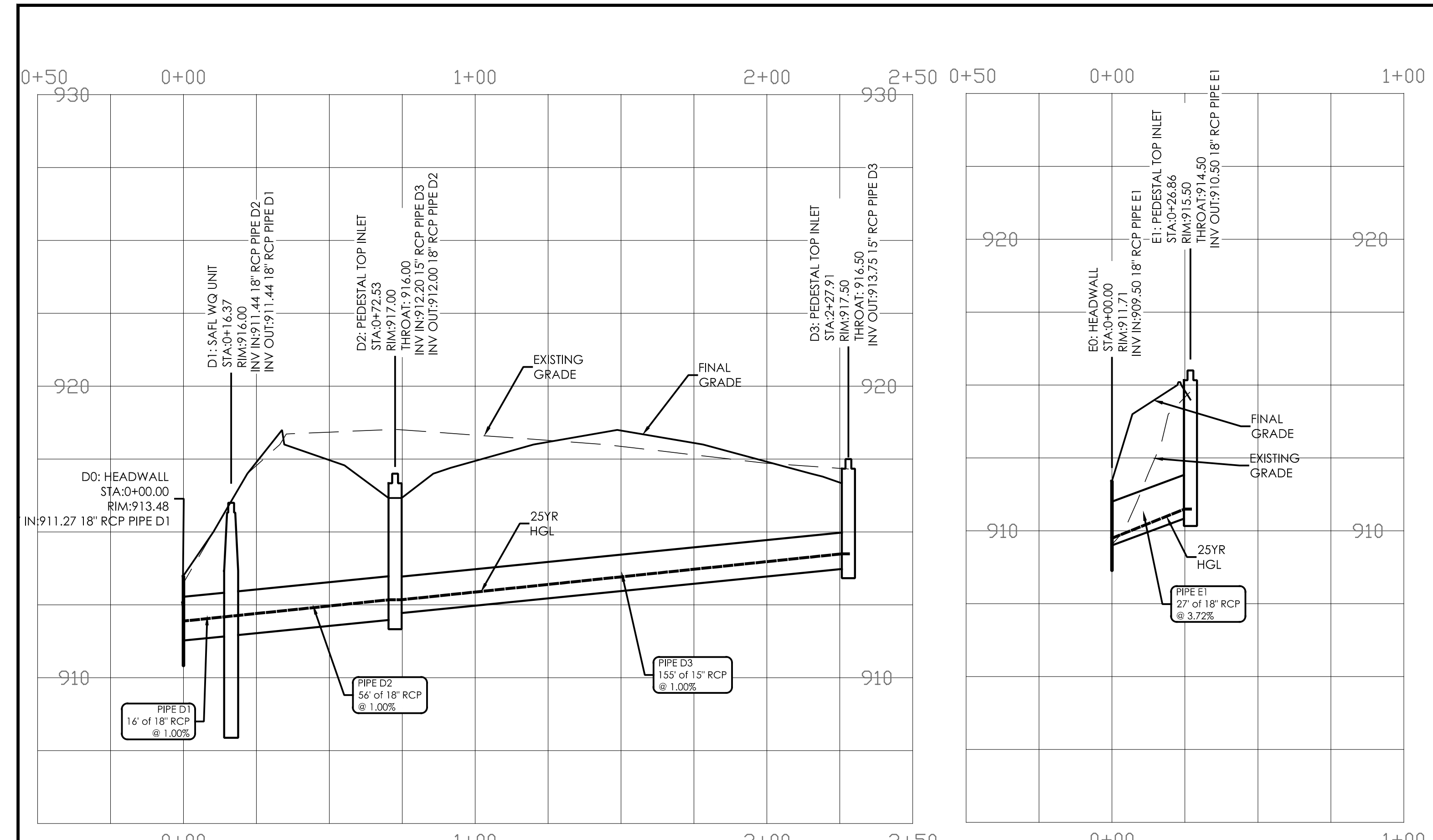


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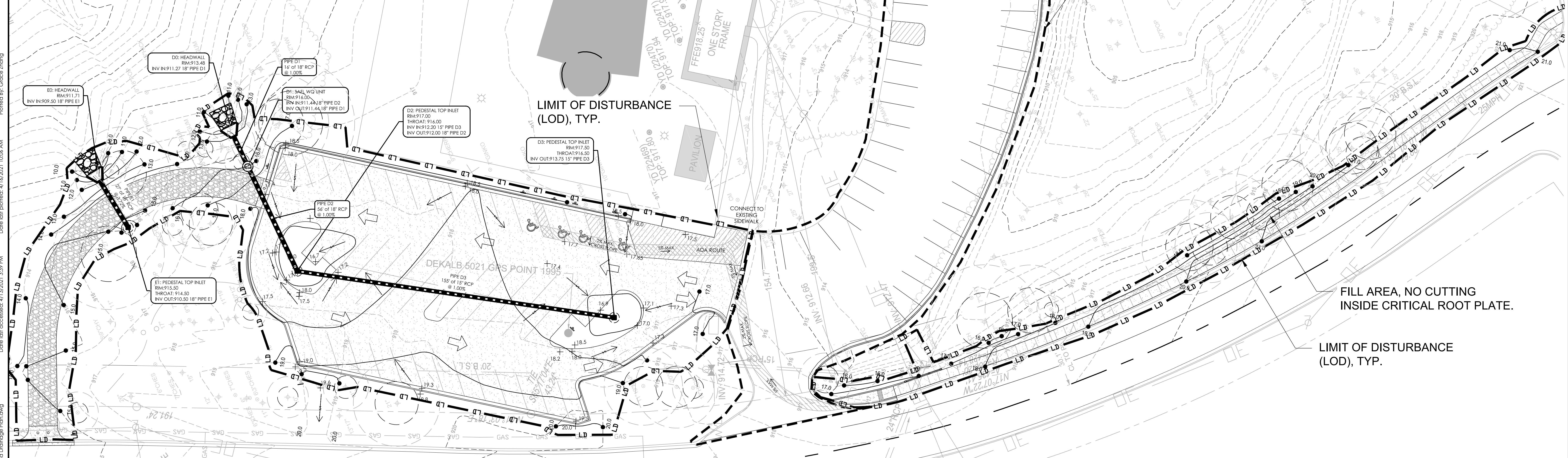
NOTE:
THE WRESTED VEGETATION AND 803 CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021

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 Date last accessed: 4/16/2021 9:50 AM
 Date last plotted: 4/16/2021 9:59 AM
 Plotted By: Gaoch Zhang



STORM D
Hor. Scale 1"=30'
Vert. Scale 1"=3'

STORM E
Hor. Scale 1"=30'
Vert. Scale 1"=3'



CANDLER LAKE CIRCLE WEST
(APPARENT 60' R/W)

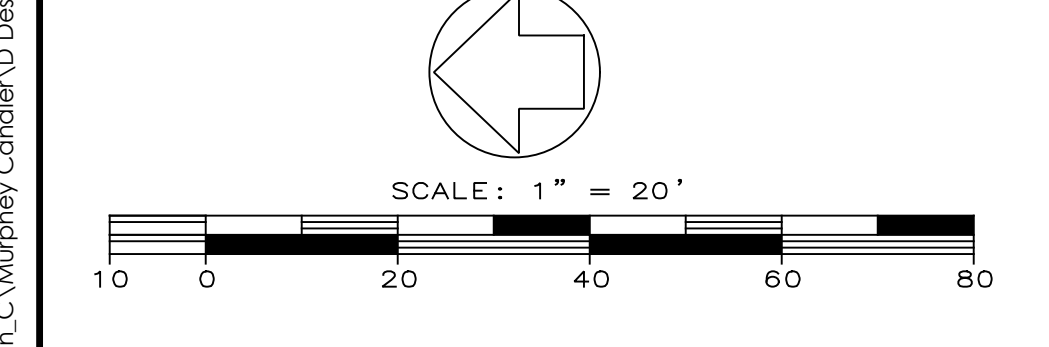
SITE / GRADING NOTES:

1. ALL SIDEWALKS SHALL HAVE A 2% MIN. SLOPE TOWARD THE CURB.
2. FINISH GRADE OF ALL SIDEWALKS TO BE FLUSH WITH TOP OF CURB.
3. ALL CATCH BASINS TOPS TO BE ADJUSTED TO MATCH FINISHED CURB HEIGHTS AND FINISHED PAVEMENT.
4. THE CONTRACTOR SHALL PRESERVE BENCHMARKS AND REFERENCE POINTS.
5. ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF BROOKHAVEN REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
6. NOTIFY ALL CITY OF BROOKHAVEN INSPECTORS AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.
7. IF THE CONTRACTOR IN THE COURSE OF WORK FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
8. DUST AND DEBRIS FROM GRADING AND OPERATION OF EQUIPMENT MUST BE MONITORED AND MINIMIZED TO LEVELS ACCEPTABLE TO THE ENGINEER, OWNER AND CITY OF BROOKHAVEN.
9. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF BROOKHAVEN OF ANY LAND DISTURBING ACTIVITIES WHICH MAY RESULT IN THE TAKE OF ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH MAY HAVE THIS EFFECT.
10. THE TRAFFIC CONTROL DEVICES MUST COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.

11. UPON COMPLETION OF THE CONTRACT WORK, THE CONTRACTOR WILL BE REQUIRED TO RESTORE THE STAGING AREA AND SURROUNDING AREAS AFFECTED BY HIS WORK TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
12. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS THAT ARE PERTINENT TO THIS WORK.
13. ALL CONCRETE, ASPHALT, WASTE EMBANKMENT, DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
14. HANDICAP ACCESSIBLE RAMPS, AS PER THE AMERICAN NATIONAL STANDARDS INSTITUTE, SHALL BE INSTALLED AT THE SAME TIME AS THE CURB IS PLACED.
15. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
16. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN ENTERING MANHOLES, PIPES OR OTHER STRUCTURES SHOWN ON THE PLANS. AT A MINIMUM, THESE PIPES AND STRUCTURES SHALL BE PROPERLY VENTILATED.
17. ALL PAVEMENT MARKINGS SHALL BE PAINTED.
18. ALL UTILITIES SHALL BE PLACED UNDERGROUND, (UTILITIES SHALL NOT BE LOCATED IN ANY DRAINAGE EASEMENTS EXCEPT FOR CROSSINGS).
19. ALL CONSTRUCTION CONTRACTORS MUST OBSERVE THE LIMITS OF CONSTRUCTION OR DISTURBANCE AS SHOWN.
20. IF USING HDPE/HDPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 AND AASHTO M-71, TYPE S&D. CONNECTION SHALL USE A RUBBER GASKET,

- WHICH CONFORMS TO ASTM F-47. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30, OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATION CONSTRUCTION OF ROAD AND BRIDGES.
21. IF USING ALUMINUM COATED TYPE 2 STEEL PIPE OR ALUMINUM ALLOY PIPE, ALL ALUMINUM COATED TYPE 2 STEEL PIPE OR ALUMINUM ALLOY PIPE, WHICH WILL CARRY A LIFE STREAM, SHALL HAVE PAVED INVERTS IN ACCORDANCE WITH AASHTO M-190, TYPE C. EXCEPT THAT THE PIPE NEED NOT BE FULLY COATED. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATION CONSTRUCTION OF ROAD AND BRIDGES.
22. IF USING RCP PIPE: ALL RCP PIPE JOINTS SHALL BE BELL & SPIGOT TYPES WITH RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M-170 AND/OR ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030-D, GA. DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS CONSTRUCTION OF ROAD AND BRIDGES.
23. A SEPARATE BUILDING PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALL (WHICH EITHER EXCEEDS 4 FEET IN HEIGHT OR WHICH HAS A BACKFILL SLOPE GREATER THAN 1 FOOT RISE IN 3 FEET HORIZONTAL) AND FOR EACH DETENTION POND WALL (DAM) IN ACCORDANCE WITH CITY OF BROOKHAVEN CONSTRUCTION CODE. A CERTIFICATE OF COMPLETION SHALL BE ISSUED BY CITY OF BROOKHAVEN BUILDING INSPECTIONS SECTION FOR ALL WALLS PERTINENT TO THE PROJECT PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR ANY USABLE STRUCTURE ON THE SITE OR PRIOR TO APPROVAL OF THE FINAL SUBDIVISION PLAT AS APPLICABLE.
24. ALL PAVEMENT TO HAVE 2% MIN. SLOPES FOR POSITIVE DRAINAGE.

TREE PROTECTION NOTE:
NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS. ALL TREE PROTECTION FENCE TO BE INSPECTED DAILY.

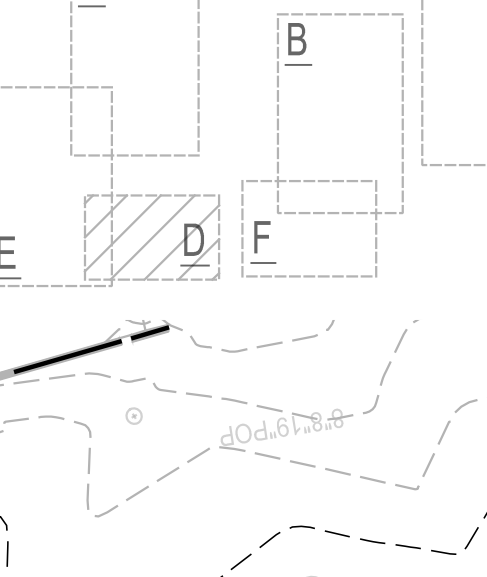


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MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
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C. O. A.# LSF000810

NOTE:
THE WRESTED VEGETATION AND 803 CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021

SHEET KEY



ARCHITECTURE
ENGINEERING
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DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 11 | 09/17 | LDP - South Trail - City Comment #2 |
| 12 | 09/17 | LDP - South Trail - City Comment #2 |
| 13 | 09/13 | LDP - Pool Parking - City Comment #1 |
| 14 | 10/16 | LDP - Habitat Play Area Field Design #1 |
| 15 | 10/19 | Multimedia Trail on Dan - Pedestrian Comment #1 |
| 16 | 11/16 | LDP - Pool Parking - City Comment #2 |
| 17 | 11/20 | LDP - Community Green - City Comment #2 |
| 18 | 11/20 | LDP - Habitat Play Area Field Design #1 |
| 19 | 11/20 | NORTH BOUNDARY DESIGN/DESIGN/CONSTRUCTION |
| 20 | 12/01 | Multimedia Trail on Dan - Pedestrian Comment #1 |
| 21 | 12/01 | Multimedia Trail on Dan - Pedestrian Comment #2 |
| 22 | 12/30 | ISSUED FOR PERMIT |
| 23 | 01/11 | COMMUNITY GREEN - BUA/DMA PERMIT #1 |
| 24 | 02/04 | ISSUED FOR PERMIT |
| 25 | 02/11 | ISSUED FOR PERMIT |
| 26 | 03/03 | ISSUED FOR PERMIT |
| 27 | 04/13 | LDP - Community Green - City Comment #1 |
| 28 | 04/15 | LDP - Habitat Play Area Field Design #2 |
| 29 | 04/15 | LDP - Pool Parking - City Comment #1 |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

| | | |
|----------|-------|---------|
| DATE | DRAWN | CHECKED |
| 03/03/21 | GZ | MC |

SCALE
SHEET TITLE
GRADING AND DRAINAGE PLAN
POOL PARKING

| | |
|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| C5.6 | |
| 8 | |
| DRAWING NUMBER | |

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permits)

Project Name: **MURPHY CANDLER PARK** Address: **SWCC**
City/County: **BROOKHAVEN, DEKALB** Date on Plans: **02/04/2021**
Name & email of person filling out checklist: **Jeff Mueller, jmueller@cityofbrookhaven.com**

Plan Included: **7.0B** **Y**
To be shown on ES&PC Plan: **ALL** **Y**

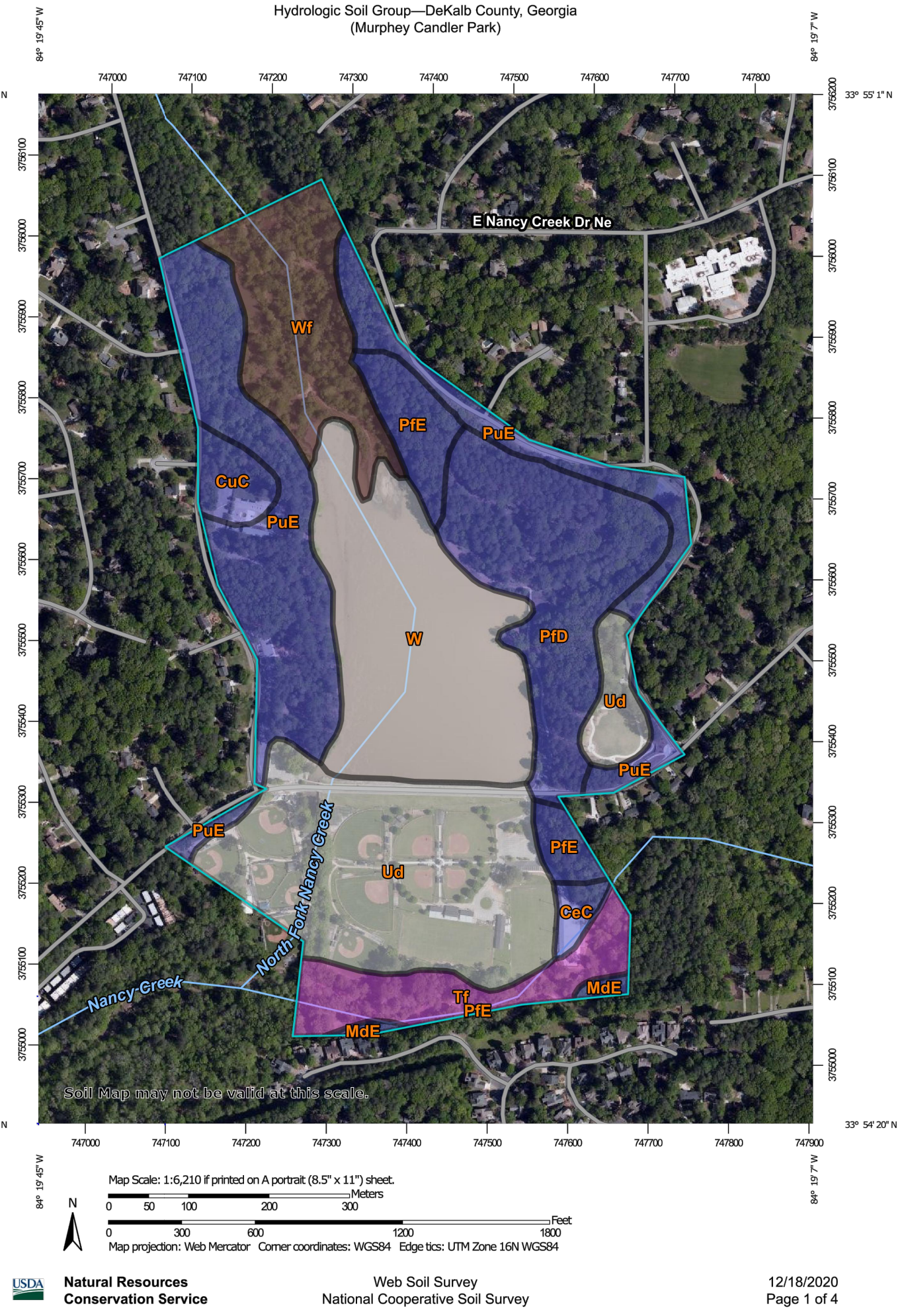
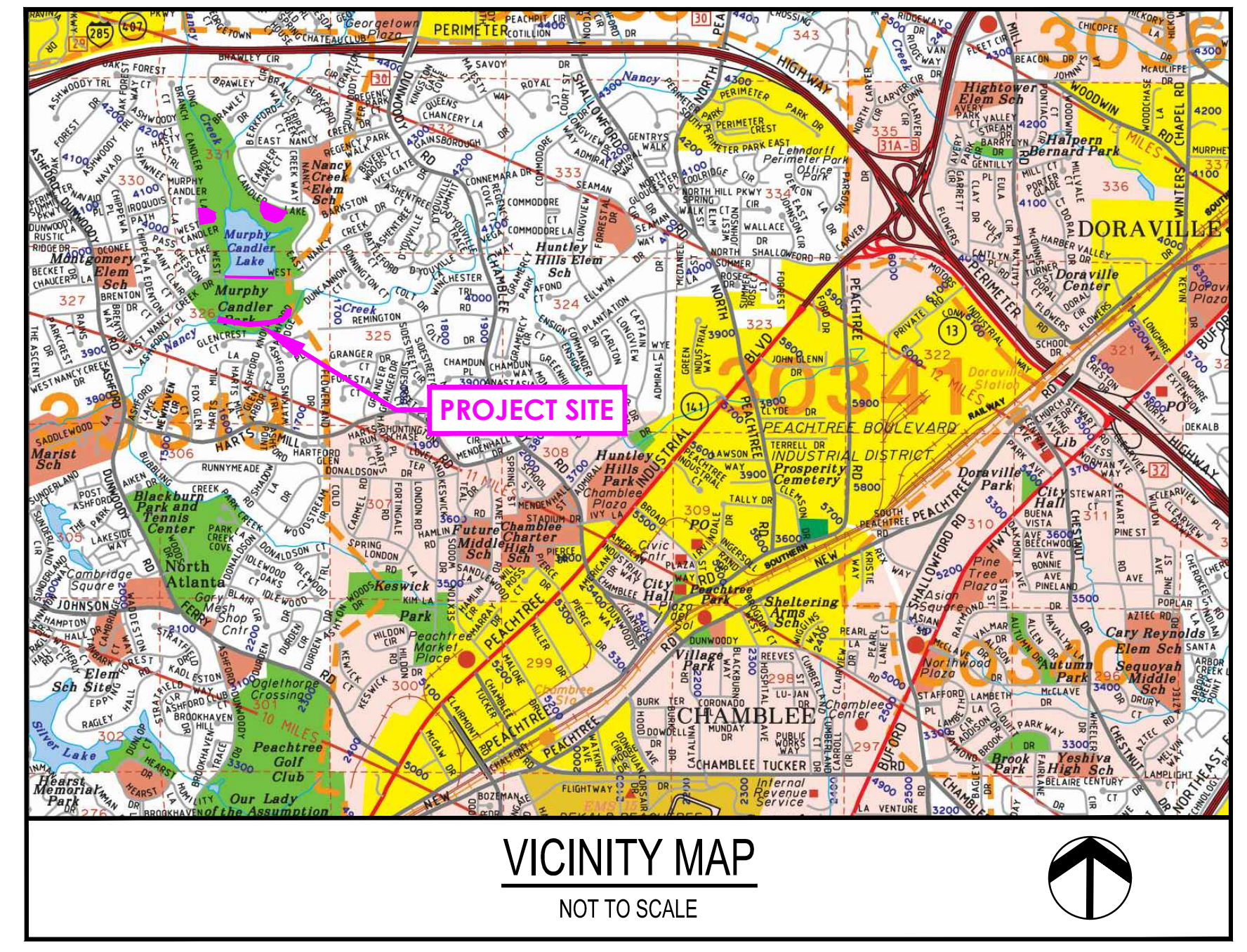
- The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
- Level II certification 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)
- 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)
- The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
- Provide the name, address, email address, and phone number of the primary permittee or tertiary permittee.
- Note total and disturbed acreage of the project or phase under construction.
- Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
- Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
- Description of the nature of construction activity.
- Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
- Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
- Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 2 of the permit.
- 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 Part IV page 22 of the permit.
- Clearly note the statement 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."
In accordance with Part IV.A.5 page 27 of the permit. *
- Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wetted vegetation or within 25-foot of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
- Provide a description of any buffer encroachments and indicate whether a buffer variance is required.

- Clearly note the statement 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.
- Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."
- Clearly note statement that "The erosion of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
- Clearly note statement that "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."
- Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
- Indication that the applicable portion of the primary permittee ES&PC Plan is to be provided to each secondary permittee prior to the secondary conducting any construction activity and that each secondary shall sign the Plan or portion of the Plan applicable to their site. List the names and addresses of all secondary permittees. *
- Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 mile upstream of and within the same watershed as any portion of an 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. *
- A TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 23 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. *
- 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.
- Provide BMPs for the remediation of all petroleum spills and leaks.
- Description of practices to provide cover for building materials and building products on site. ***
- 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.
- Description of the practices that will be used to reduce the pollutants in storm water discharge.
- 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).
- Provide complete requirements of inspections and record keeping by the primary permittee or tertiary permittee.
- Provide complete requirements of sampling frequency and reporting of sampling results. *
- Provide complete details for retention of records as per Part IV.F. of the permit.
- Description of analytical methods to be used to collect and analyze the samples from each location. *
- Appendix B rationale for NTU values of all outlet sampling points where applicable. *
- Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. *
- 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. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase.

- Plan addresses BMPs for all phases of common development including individual building lots and out-parcels, etc. regardless of who owns or operates the individual sites. Include a typical and any situational lots applicable.
- Graphic scale and North arrow.
- Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
Map Scale Ground Slope Contour Interval, 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
- 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.
- Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.
- 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.
- Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
- Delineation and acreage of contributing drainage basins on the project site.
- Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
- An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. *
- Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
- Soil series for the project site and their delineation.
- The limits of disturbance for each phase of construction.
- 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 justification 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 attainable. A written justification as to why 67 cubic yards of storage is not attainable must also be given. 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. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
- 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.
- 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.
- Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizing, liming 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.
- This requirement of the Common Development permit is not applicable to Tertiary Permittees with a Plan(s) for a total individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre. If applicable, the * checklist item would be N/A.

Effective January 1, 2020

- Certified personnel for primary permittees 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 Section IV.D.4.(a)(3)(a) - (c); secondary permittees, Section IV.D.4.(b)(3)(a) - (c); and tertiary permittees Section IV.D.4.(c)(3)(a) - (c) *
- Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phases of the construction activity.
- 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 Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.org)
- Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.
- Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Section IV.A.5 of the permit.
The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.
- Install Post-Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.
Effective January 1, 2020
* This requirement is different for infrastructure projects:
Certified personnel for primary permittees shall conduct inspections at least once 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 Section IV.D.4.(3)(a) - (c) of the permit.



Hydrologic Soil Group

| Map unit symbol | Map unit name | Rating | Acreage in AOI | Percent of AOI |
|------------------------------------|--|--------|----------------|----------------|
| CwC | Cecil sandy loam, 6 to 10 percent slopes | B | 1.0 | 1.0% |
| CuC | Cecil-Uhlan land complex, 2 to 10 percent slopes | B | 2.2 | 2.0% |
| MIE | Madison sandy loam, 15 to 30 percent slopes | B | 0.6 | 0.6% |
| PID | Pacolet sandy loam, 10 to 15 percent slopes | B | 15.3 | 14.3% |
| PIE | Pacolet sandy loam, 15 to 30 percent slopes | B | 4.7 | 4.4% |
| PUE | Pacolet-Uhlan land complex, 10 to 25 percent slopes | B | 21.3 | 19.9% |
| TI | Toxoca sandy loam, 0 to 2 percent slopes, frequently flooded | A | 6.3 | 5.9% |
| Ud | Urban land | | 25.0 | 23.3% |
| W | Water | | 20.0 | 18.6% |
| Wf | Wehachkee silt loam, frequently flooded | B/D | 10.8 | 10.0% |
| Totals for Area of Interest | | | 107.3 | 100.0% |

- 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.
- 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.
- 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.
- A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOI has been submitted.
- Use foculocants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Section III, D.1. of the NPDES Permit.
- Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Section IV.D.6.d. of the NPDES Permits.
- 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).
- Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
- 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. All calculations must be included on the Plan.
- Use "Dirt It" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan.
(https://epd.georgia.gov/erosion-and-sedimentation)
- 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.
- Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
- Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
- Use flocculants or coagulants 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.
- Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
- Conduct soil tests to identify and implement site-specific fertilizer needs.

APPROXIMATE ACTIVITY SCHEDULE

ANTICIPATED START DATE: **FEBRUARY 2021**
ANTICIPATED COMPLETION DATE: **FEBRUARY 2021**

| DESCRIPTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|
| SEDIMENT CONTROL—SEE PROVISION | | | | | | | | | | | | |
| WETLAND EROSION CONTROL BMPs | | | | | | | | | | | | |
| DEMOLITION | | | | | | | | | | | | |
| CLEARING & GRUBBING | | | | | | | | | | | | |
| GRUBBING | | | | | | | | | | | | |
| APPLICATION OF TEMPORARY SERVICES | | | | | | | | | | | | |
| STORM | | | | | | | | | | | | |
| FINAL PERMS | | | | | | | | | | | | |
| WATER EROSION CONTROL SERVICES | | | | | | | | | | | | |
| APPLICATION OF PERMANENT SERVICES | | | | | | | | | | | | |
| FINAL LANDSCAPING | | | | | | | | | | | | |
| DISPOSITION OF SEDIMENT SERVICES | | | | | | | | | | | | |



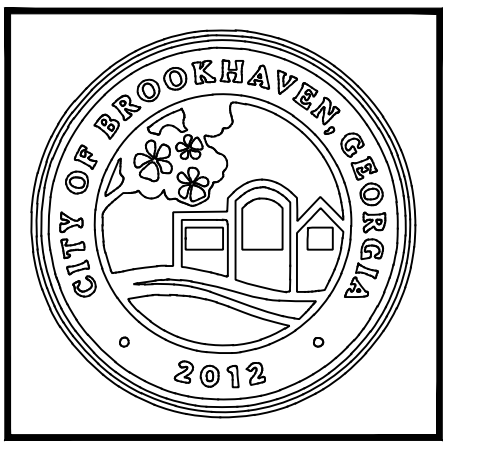
2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1396 BELLS TERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# L5F000810

NOTE: THE WRESTED VEGETATION AND 80% CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021

24-HR EMERGENCY CONTACT:
LEE CROY
CITY OF BROOKHAVEN
4362 PEACHTREE ROAD
BROOKHAVEN, GA 30319
CELL: (678) 576 9846

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
Jeffrey W Mueller
Level II Certified Design Professional
CERTIFICATION NUMBER: 000000138
ISSUED: 03/18/2016 EXPIRES: 03/18/2021

PROJECT NUMBER: 15092.00
SCALE: C7.0B
DRAWING NUMBER



DRAWINGS SCHEDULE

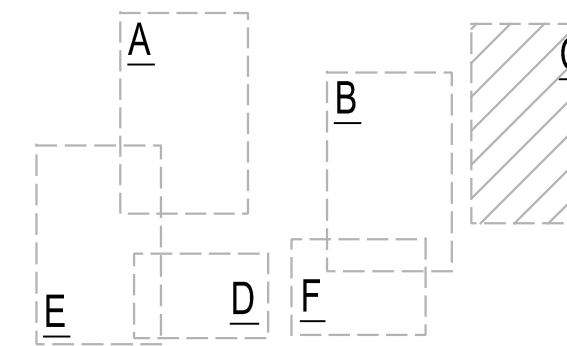
| No. | Date | Description |
|-----|-------|--|
| 11 | 08/17 | LDP - South Tract - City Comment #2 |
| 12 | 09/17 | LDP - South Tract - City Comment #3 |
| 13 | 10/12 | LDP - Final Permits - City Comment #4 |
| 14 | 10/16 | LDP - Natural Play Area Final Change #1 |
| 15 | 10/18 | Multi-use Trail on Dam - Pre-final Review |
| 16 | 11/18 | LDP - Final Parking - City Comment #5 |
| 17 | 11/20 | LDP - Community Green - City Comment #6 |
| 18 | 11/20 | LDP - Interim Construction - City Comment #7 |
| 19 | 11/20 | NORTH PEACHTREE DESIGN-BUILD |
| 20 | 12/05 | Multi-use Trail on Dam - Pre-final Review |
| 21 | 12/11 | Multi-use Trail on Dam - Pre-final Review |
| 22 | 12/30 | GSWCC Submittal |
| 23 | 01/11 | COMMUNITY GREEN - ANULATED PERMIT #1 |
| 24 | 02/04 | INTERIM CONSTRUCTION PERMIT #1 |
| 25 | 02/11 | WETLANDS DETERMINATION LINES DESIGN-BUILD CONTRACT |
| 26 | 03/03 | GSWCC Submittal #1 |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

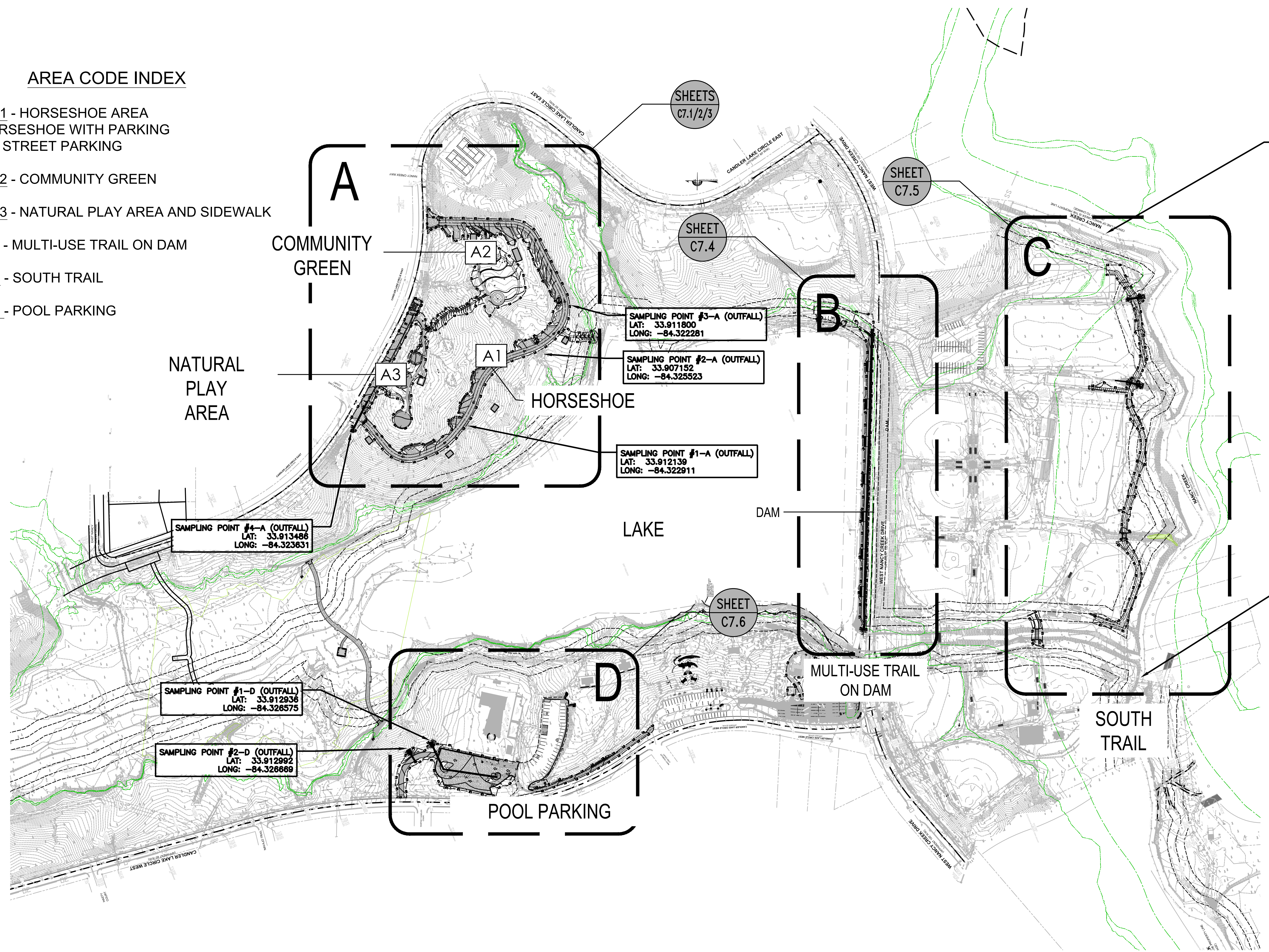
DATE: 03/03/21
DRAWN: GZ
CHECKED: MC
SCALE:
SHEET TITLE: ESCP NOTES II

APPROVED PLAN 08/16/2021
Permit # LDP20-00020



AREA CODE INDEX

1. AREA A1 - HORSESHOE AREA
 - HORSESHOE WITH PARKING
 - ON STREET PARKING
2. AREA A2 - COMMUNITY GREEN
3. AREA A3 - NATURAL PLAY AREA AND SIDEWALK
4. AREA B - MULTI-USE TRAIL ON DAM
5. AREA C - SOUTH TRAIL
6. AREA D - POOL PARKING



MONITORING CHART:

Conduct Turbidity and Total Suspended Solids (TSS) Sampling after every rain event of 0.5 inches or greater within any 24 hour period, recognizing the exceptions specified in Part I.D.6.d of the NPDES Permit GAR 100001. Representative Sampling is not used on this project.

| Monitoring Site | Primary or Alternate Site | Location Description | Name of Receiving Water | Applicable construction Phase | Sampling Type (Outfall or Receiving Water) | Drainage Area for Receiving Water (SQ MI) | Disturbed Area (AC) | Warm or Cold Water Stream | Appendix B NTU value (Outfall Monitoring) | Allowable NTU increase (for Receiving Water) |
|-----------------|---------------------------|-------------------------------------|-------------------------|-------------------------------|--|---|---------------------|---------------------------|---|--|
| South Trail | Primary | Sample Location #1 & #2 | Nancy Creek | All | Receiving Water | 13.95 | 0.57 | Warm | NA | 25 |
| Pool Parking | Primary | Sample Location #1D & #2D | Candler Lake | All | Outfall | 13.95 | 0.9 | Warm | 50 | NA |
| Horseshoe Loop | Primary | Sample Location #1A, #2A, #3A & #4A | Candler Lake | All | Outfall | 13.95 | 0.99 | Warm | 50 | NA |
| Community Green | Primary | Sample Location #1A, #2A & #3A | Candler Lake | All | Outfall | 13.95 | 0.73 | Warm | 50 | NA |
| Natural Play | Primary | Sample Location #4A | Candler Lake | All | Outfall | 13.95 | 0.41 | Warm | 50 | NA |

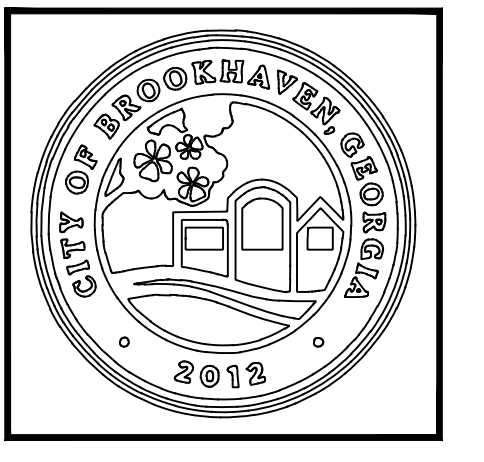
GEORGIA811
 Utilities Protection Center, Inc.
 1-800-282-7411
 Know what's below.
 Call before you dig.

2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1396 BELLS TERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
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 WWW.TERRAMARK.COM
 C. O. A.# LSF000810
 NOTE: THE WRESTED VEGETATION AND 893 CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021

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 CITY OF BROOKHAVEN
 4362 PEACHTREE ROAD
 BROOKHAVEN, GA 30319
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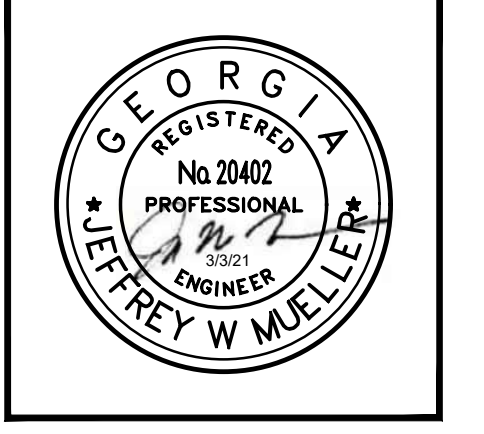
GSWCC
 Georgia Statewide Council of Professional Engineers
 Jeffrey W Mueller
 Level II Certified Design Professional
 CERTIFICATION NUMBER: 00000138
 EXPIRES: 06/15/2026

ARCHITECTURE
 ENGINEERING
 PLANNING
 CPlteam.com



DRAWINGS SCHEDULE

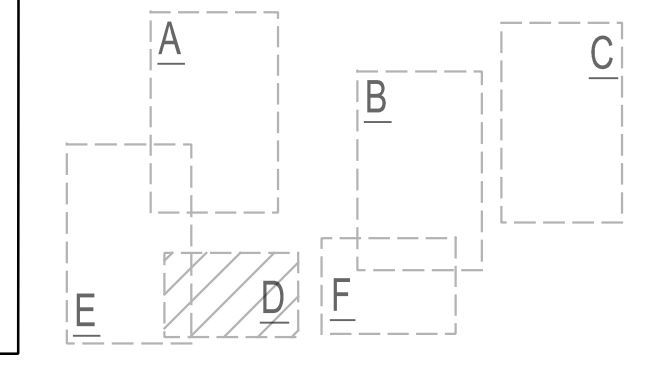
| No. | Date | Description |
|-----|------|--|
| 11 | 0817 | LSP - South Trail - City Comment #2 |
| 12 | 0917 | LSP - South Trail - City Comment #3 |
| 13 | 1015 | LSP - Pool Parking - City Comment #4 |
| 14 | 1016 | LSP - Natural Play Area - Field Change #1 |
| 15 | 1018 | Multi-Use Trail on Dam - Prefinal Review |
| 16 | 1118 | LSP - Pool Parking - City Comment #5 |
| 17 | 1120 | LSP - Community Green - City Comment #6 |
| 18 | 1120 | LSP - Horseshoe Loop - City Comment #7 |
| 19 | 1120 | NORTH BROADWAY/PEACHTREE DESIGN-BUILD |
| 20 | 1205 | Multi-Use Trail on Dam - Prefinal Comment #1 |
| 21 | 1211 | Multi-Use Trail on Dam - Prefinal Comment #2 |
| 22 | 1230 | GIS/ACC Submittal |
| 23 | 0111 | COMMUNITY GREEN - BUILDING PERMIT #1 |
| 24 | 0204 | GIS/ACC Submittal #2 |
| 25 | 0211 | NORTH BROADWAY/PEACHTREE DESIGN-BUILD CONTRACT |
| 26 | 0303 | GIS/ACC Submittal #3 |



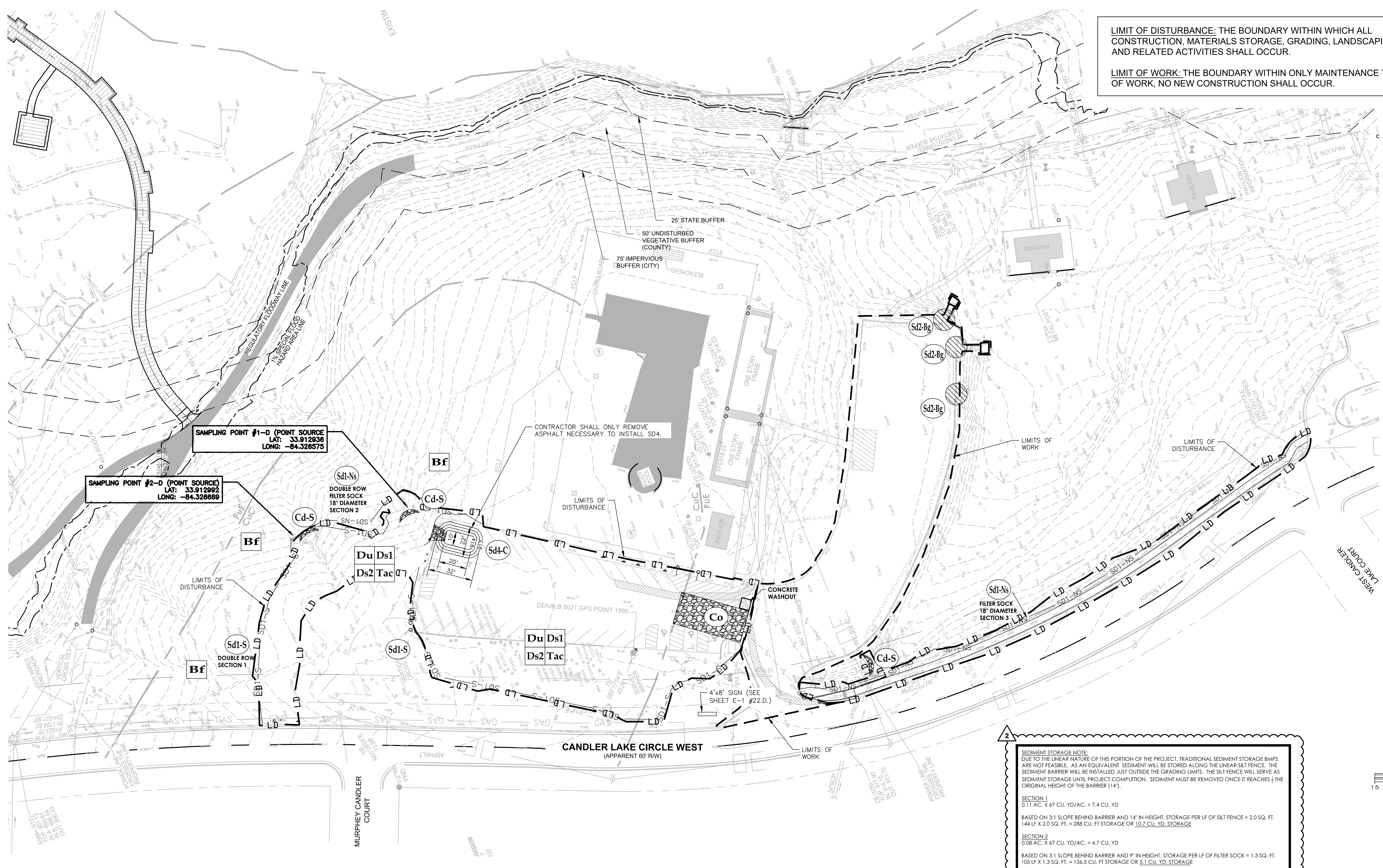
CITY OF BROOKHAVEN
 MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

DATE: 03/03/21
 SCALE: GZ
 SHEET TITLE: ESCP NOTES III

PROJECT NUMBER: 15092.00
 DRAWING NUMBER: C7.0C



LIMIT OF DISTURBANCE: THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, MATERIALS STORAGE, GRADING, LANDSCAPING AND RELATED ACTIVITIES SHALL OCCUR.
LIMIT OF WORK: THE BOUNDARY WITHIN ONLY MAINTENANCE TYPE OF WORK, NO NEW CONSTRUCTION SHALL OCCUR.



SAMPLING POINT #1-D (POINT SOURCE)
LAT: 33.912992
LONG: -84.328575

SAMPLING POINT #2-D (POINT SOURCE)
LAT: 33.912992
LONG: -84.328588

DOUBLE ROW FILTER SOCK
18" DIAMETER SECTION 2

DOUBLE ROW SECTION 1

FILTER SOCK
18" DIAMETER SECTION 3

SD4 CALCULATIONS:
REQUIRED: 0.56 ACRE @ 67 CU.YD. PER DISTURBED ACRE = 38 CY
PROVIDED: 45 CU.YD. = @ 917.00
BOTTOM ELEV.: 914.00
SPILLWAY ELEV.: 917.00
SPILLWAY WIDTH: 5.00'
TOP OF BERM: 917.50
CLEAN OUT ELEV.: 915.35
CLEANOUT VOLUME FOR TRAP IS 1/3 OF THE TOTAL STORAGE VOLUME = 16 INCHES OR 915.35 AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

EMERGENCY CONTACT:
LEE CROY
CITY OF BROOKHAVEN
4362 PEACHTREE ROAD
BROOKHAVEN, GA 30319
CELL: (678) 576 9846

GSWCC logo and contact information for Jeffrey W Mueller, Level II Certified Design Professional.

GEORGIA811 logo and contact information for Utilities Protection Center, Inc.

2016 SURVEY & 2019 UPDATED TREE SURVEY information for TERRAMARK LAND SURVEYING, INC.

STRUCTURAL PRACTICES

Table with 4 columns: CODE, PRACTICE, DETAIL, MAP SYMBOL, DESCRIPTION. Lists practices like Checkdam, Construction Exit, Sediment Barrier, Inlet Sediment Trap, and Temporary Sediment Trap.

VEGETATIVE PRACTICES

Table with 4 columns: CODE, PRACTICE, DETAIL, MAP SYMBOL, DESCRIPTION. Lists practices like Buffer Zone, Disturbed Area Stabilization, Disturbed Area Stabilization (Temporary Seeding), Dust Control on Disturbed Areas, and Temporary Erosion Control.

DESIGN PROFESSIONAL INITIAL SITE INSPECTION:
THE DESIGN PROFESSIONAL WHO PREPARED THE ES&P PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.
THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY 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 BMP'S WHICH THE DESIGN PROFESSIONAL DETERMINE IF THESE BMP'S HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED.
INSPECT THE INSTALLATION OF INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN SEVEN (7) DAYS.
DATE OF INSPECTION: _____
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&P PLAN ON THE DATE OF INSPECTION.
GSWCC LEVEL II DESIGN PROFESSIONAL # _____
INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&P PLAN:

THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

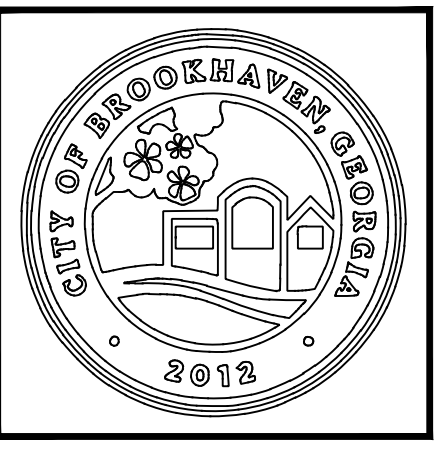
SEDIMENT STORAGE NOTE:
DUE TO THE LINEAR NATURE OF THIS PORTION OF THE PROJECT, TRADITIONAL SEDIMENT STORAGE BMP'S ARE NOT FEASIBLE. AS AN EQUIVALENT, SEDIMENT WILL BE STORED ALONG THE LINEAR SILT FENCE. THE SEDIMENT BARRIER WILL BE INSTALLED JUST OUTSIDE THE GRADING LIMITS. THE SILT FENCE WILL SERVE AS SEDIMENT STORAGE UNTIL PROJECT COMPLETION. SEDIMENT MUST BE REMOVED ONCE IT REACHES 3/4 THE ORIGINAL HEIGHT OF THE BARRIER (1:4).
SECTION 1
0.11 AC. X 67 CU. YD./AC. = 7.4 CU. YD.
BASED ON 3:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT. STORAGE PER LF OF SILT FENCE = 2.0 SQ. FT. 144 LF X 2.0 SQ. FT. = 288 CU. FT STORAGE OR 10.7 CU. YD. STORAGE
SECTION 2
0.08 AC. X 67 CU. YD./AC. = 4.7 CU. YD.
BASED ON 3:1 SLOPE BEHIND BARRIER AND 9" IN HEIGHT. STORAGE PER LF OF FILTER SOCK = 1.3 SQ. FT. 105 LF X 1.3 SQ. FT. = 136.5 CU. FT STORAGE OR 5.1 CU. YD. STORAGE
SECTION 3
0.15 AC. X 67 CU. YD./AC. = 10 CU. YD.
BASED ON 20:1 SLOPE BEHIND BARRIER FOR 10 HORIZONTAL FT AND 9" IN HEIGHT. STORAGE PER LF OF FILTER SOCK = 2.5 SQ. FT. 415 LF X 2.5 SQ. FT. = 1,037.5 CU. FT STORAGE OR 38.4 CU. YD. STORAGE

- EROSION CONTROL NOTES:
1. DISTURBED AREA: 0.90 AC.
2. THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NANCY CREEK (FECAL COLIFORM, BIO F).
3. NO ENCRoACHMENT INTO STATE OR LOCAL STREAM BUFFERS ARE ANTICIPATED.
4. CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. RESULTS OF SOIL TEST AND PROPOSED FERTILIZATION RATES SHALL BE PROVIDED TO OWNER AND ENGINEER OF RECORD.
5. MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
6. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA.
7. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.
8. AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED. ALL TEMPORARY AND/OR PERMANENT GRASSING SHALL BE HYDROSEED.
9. SEE DETAILS SHEETS FOR SILT FENCE AND COMPOST FILTER SOCK HEIGHT REQUIREMENTS.
10. COMPOST FILTER SOCKS ON PAVEMENT SHALL HAVE CONCRETE BLOCKS PLACED BEHIND THE FILTER SOCKS AT 6' O.C.

TREE PROTECTION NOTE:
NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS. ALL TREE PROTECTION FENCE TO BE INSPECTED DAILY.
STATE WATERS:
STATE WATERS (MURPHY CANDLER LAKE) IS LOCATED ONSITE AND WITHIN 200 FEET OF THE SITE.

- CITY OF BROOKHAVEN EROSION CONTROL NOTES:
1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
2. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
3. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCAED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS, THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
4. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
5. OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
6. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
7. THE CONSTRUCTION OF THE SITE WILL INITIATE 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.
8. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
9. ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMPORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT WITHIN 14 DAYS AFTER DISTURBANCE. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
10. A CONCRETE WASHDOWN BMP SHALL BE PROVIDED. THE CONCRETE WASHDOWN AREA SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
11. 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 CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.
12. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

ARCHITECTURE ENGINEERING PLANNING CPLTeam.com logo



DRAWINGS SCHEDULE table with columns: No., Date, Description. Lists drawing numbers and their descriptions.



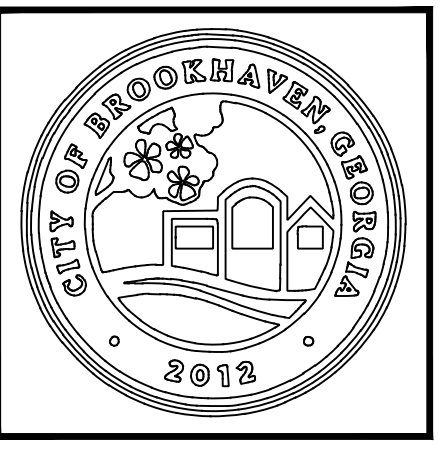
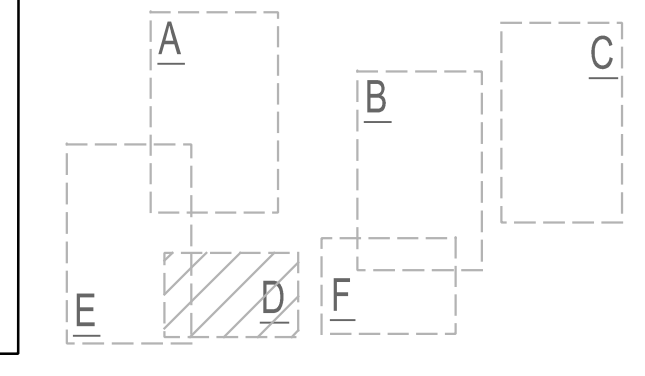
CITY OF BROOKHAVEN MURPHEY CANDLER PARK 1551 W. NANCY CREEK DRIVE NE BROOKHAVEN, GEORGIA 30319

DATE: 03/03/21, DRAWN: GZ, CHECKED: MC

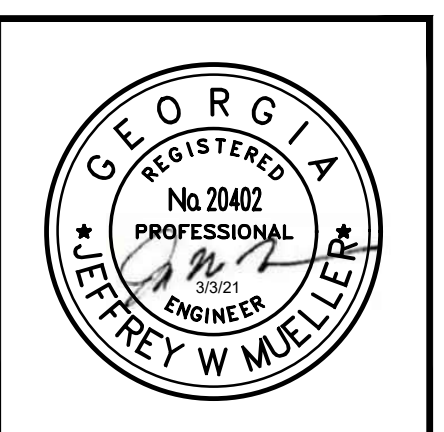
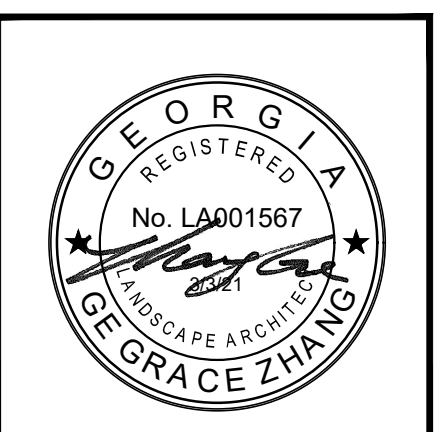
SHEET TITLE: INITIAL EROSION AND SEDIMENT CONTROL PLAN POOL PARKING

PROJECT NUMBER: 15092.00, C7.6A, 12, DRAWING NUMBER

LIMIT OF DISTURBANCE: THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, MATERIALS STORAGE, GRADING, LANDSCAPING AND RELATED ACTIVITIES SHALL OCCUR.
LIMIT OF WORK: THE BOUNDARY WITHIN ONLY MAINTENANCE TYPE OF WORK, NO NEW CONSTRUCTION SHALL OCCUR.



Drawings Schedule table with columns for No., Date, and Description.



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

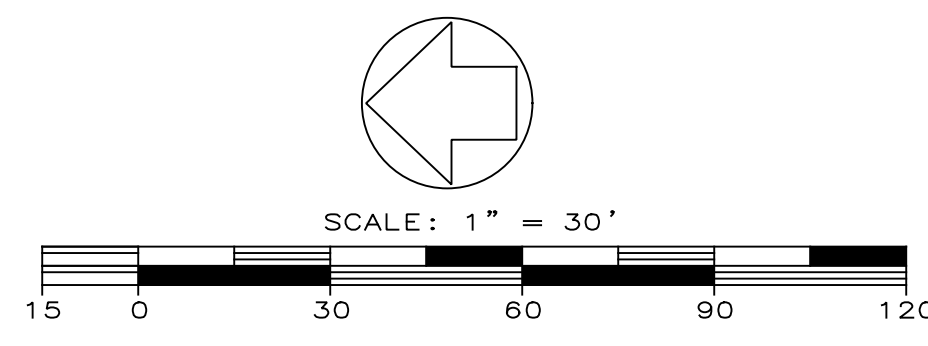
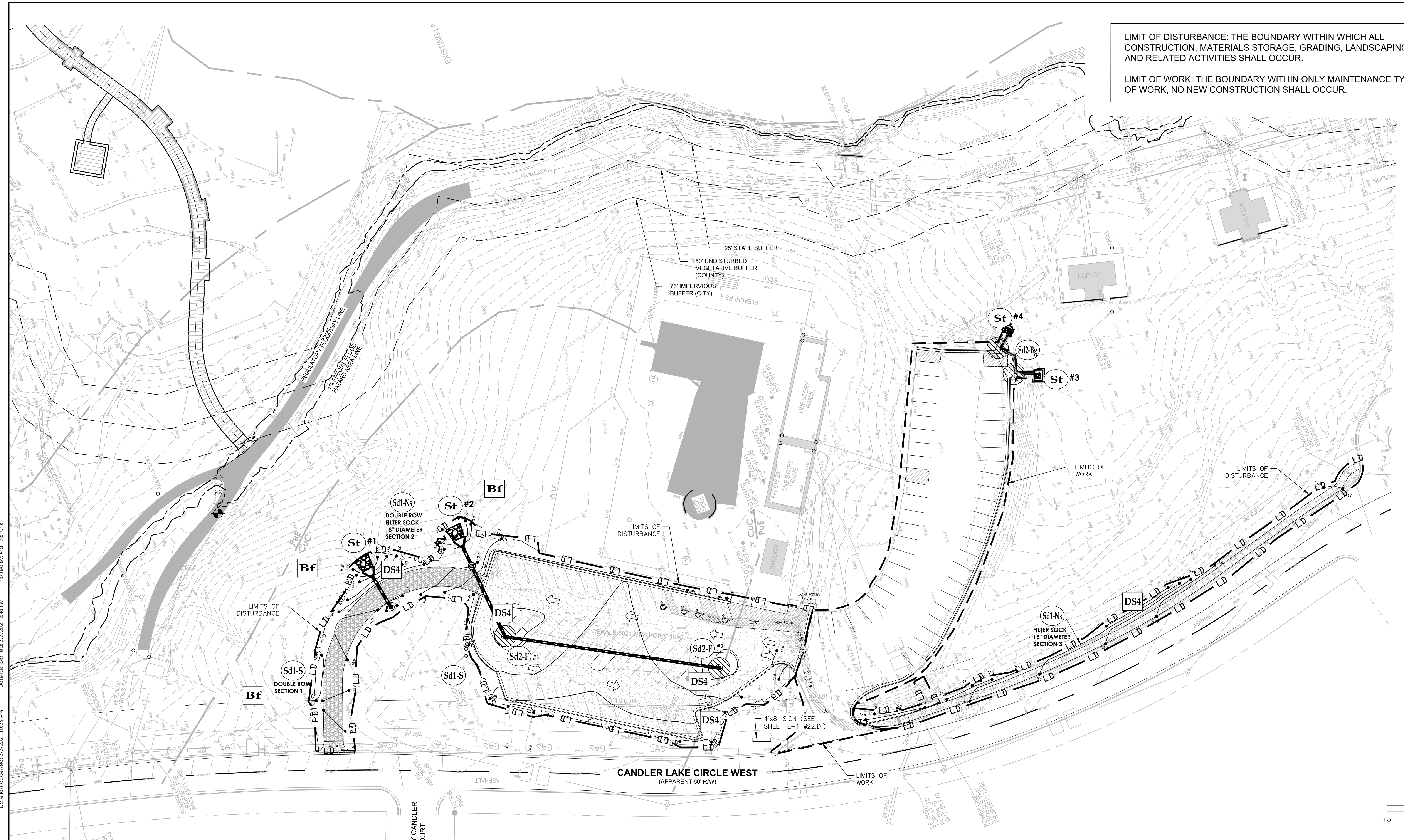
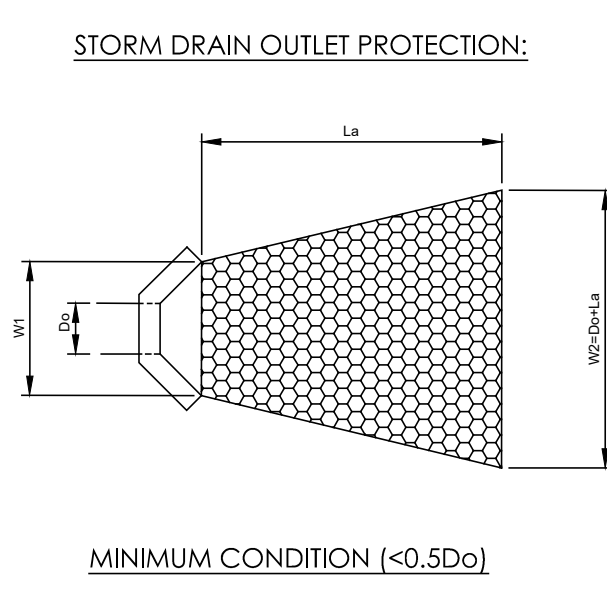


Table comparing excavated sediment trap details for SD2 #1 and SD2 #2, including area drained, required storage, and excavation dimensions.

Table with columns for Structure, Pipe Dia, Flow (CFS), and various dimensions (La, W1, W2, etc.) for different types of structures.

NOTES:
*MINIMUM APRON THICKNESS SHALL BE 18"
**DEFINITIONS:
d50 - AVERAGE STONE DIAMETER
dmax - MAXIMUM STONE DIAMETER
D - STONE DEPTH
W1 - WIDTH AT HEADWALL
W2 - DOWNSTREAM WIDTH
VEL - VELOCITY
TW - TAILWATER
Do - DIAMETER OF PIPE



STRUCTURAL PRACTICES

Table of structural practices with columns for Code, Practice, Detail, Map Symbol, and Description.

VEGETATIVE PRACTICES

Table of vegetative practices with columns for Code, Practice, Detail, Map Symbol, and Description.

DESIGN PROFESSIONAL FINAL SITE INSPECTION
THE DESIGN PROFESSIONAL WHO PREPARED THE ES&P PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPO HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

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

GSWCC LEVEL II DESIGN PROFESSIONAL #
INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&P PLAN.

THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

- EROSION CONTROL NOTES:
1. DISTURBED AREA: 0.87 ACRES
2. THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NANCY CREEK (FECAL COLIFORM, BIO F).
3. NO ENCRoACHMENT INTO STATE OR LOCAL STREAM BUFFERS ARE ANTICIPATED.
4. CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. RESULTS OF SOIL TEST AND PROPOSED FERTILIZATION RATES SHALL BE PROVIDED TO OWNER AND ENGINEER OF RECORD.
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10. COMPOST FILTER SOCKS ON PAVEMENT SHALL HAVE CONCRETE BLOCKS PLACED BEHIND THE FILTER SOCKS AT 6' O.C.

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TREE PROTECTION NOTE:
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STATE WATERS:
STATE WATERS (MURPHY CANDLER LAKE) IS LOCATED ONSITE AND WITHIN 200 FEET OF THE SITE.

EMERGENCY CONTACT:
LEE CROY
CITY OF BROOKHAVEN
4362 PEACHTREE ROAD
BROOKHAVEN, GA 30319
CELL: (678) 576 9846

GSWCC logo and contact information for Jeffrey W. Mueller, Level II Certified Design Professional.

2016 SURVEY & 2019 UPDATED TREE SURVEY by TERRAMARK LAND SURVEYING, INC. with contact details.

GEORGIA811 logo and contact information for Utilities Protection Center, Inc.

Buffer Zone Bf



DEFINITION A strip of undisturbed, original vegetation, enhanced or restored existing vegetation or the re-establishment of vegetation surrounding an area of disturbance or bordering streams, ponds, wetlands, lakes and coastal waters.

to filter and infiltrate runoff, but also to act as a screen for "visual pollution" and reduce construction noise. General buffers may be enhanced to achieve desired goals.

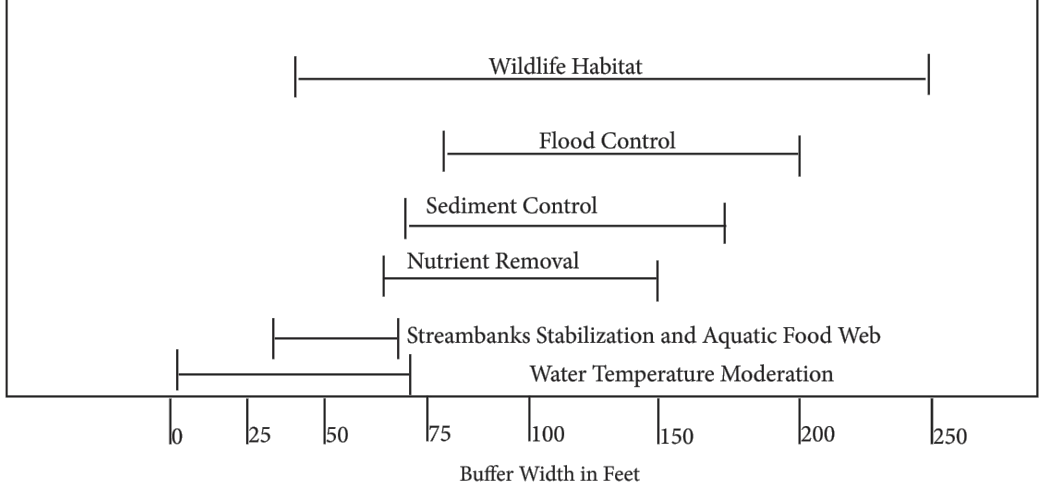


Figure 6-1.1 - Range of Minimum Width for Meeting Specific Buffer Objectives (Patton and Todd, draft)

Soil preparation and maintenance are essential for the establishment of planted vegetation. Soil fertility, weed control, herbaceous cover, as well as additional associated products may be required.

Streambank stabilization techniques may be required if steep slopes and hydrologic patterns exist. It is imperative that the structure of the vegetated stream buffer be maintained.

Table 6-1.1 - Unrooted Hardwood Cuttings. Table with columns: Species, Region, Tolerance to Flooding, Tolerance to Drought, Tolerance to Deposition, Tolerance to Shade.

Adapted from the USANRCS Engineering Field Handbook, Chapter 18

Table 6-1.2 - Native Plant Guide. Table with columns: Species, Region, Stream Zone, Wildlife Value, Notes.

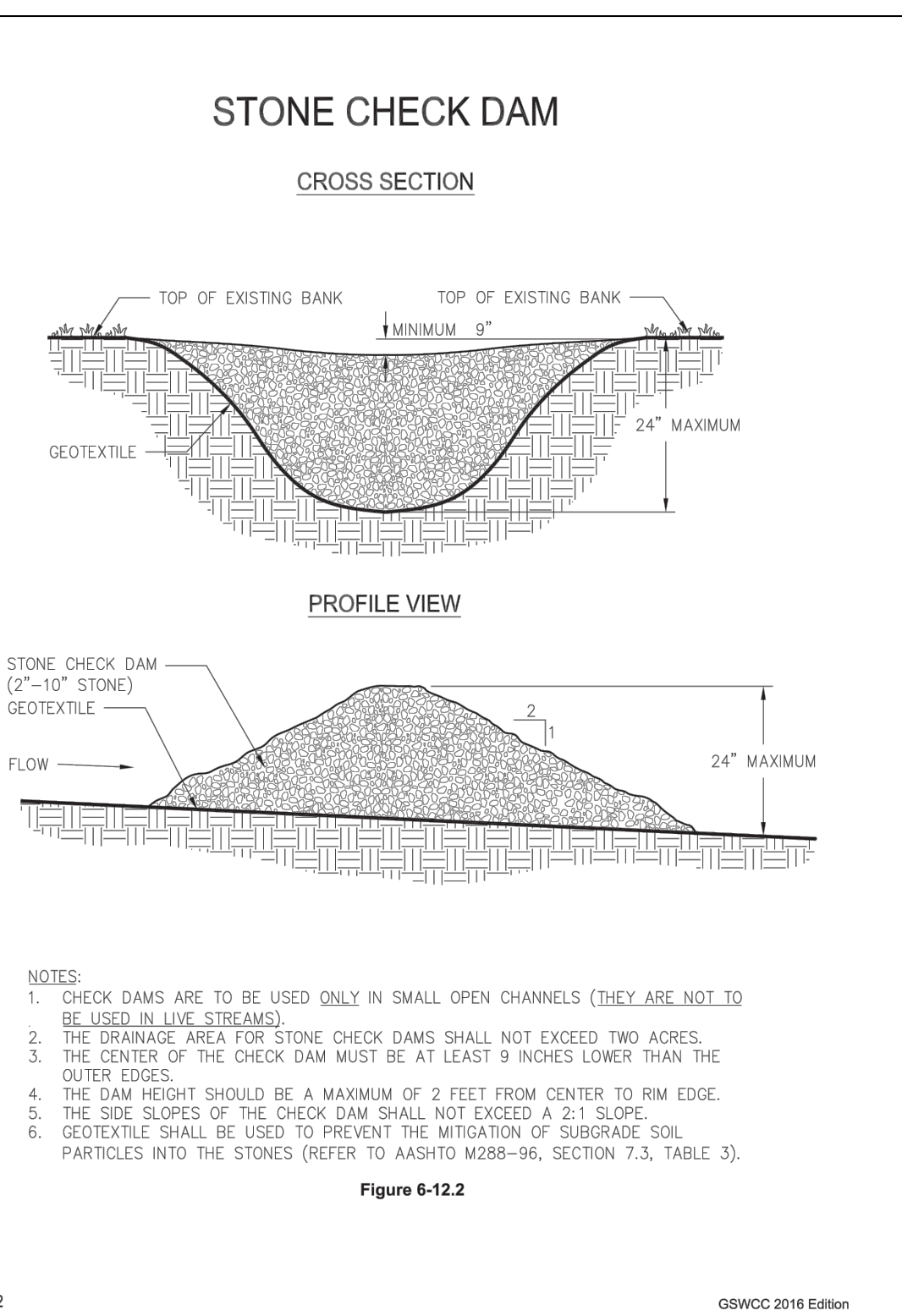
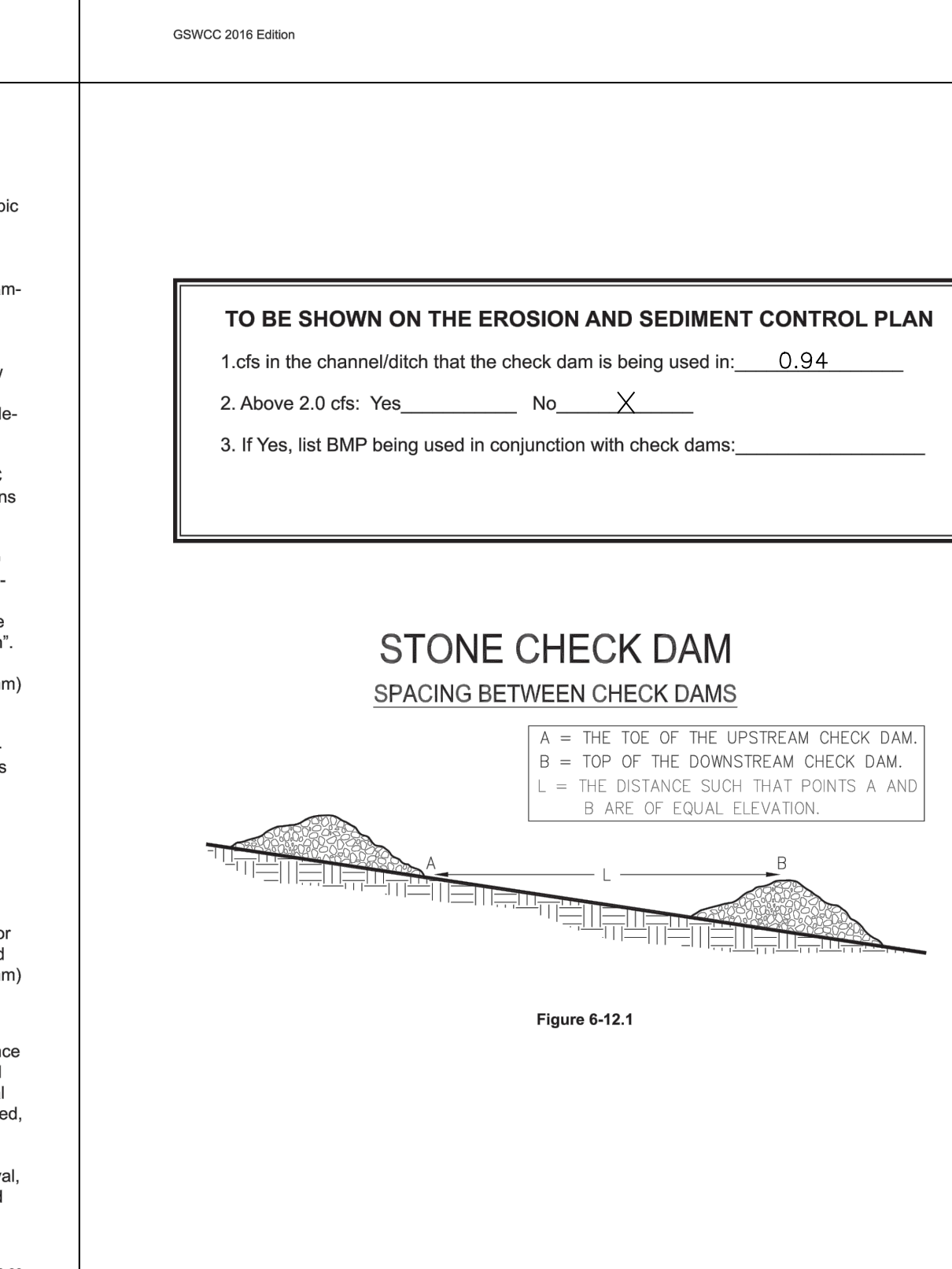
Table 6-1.2 - Native Plant Guide - continued. Table with columns: Species, Region, Stream Zone, Wildlife Value, Notes.

Table 6-1.2 - Native Plant Guide - continued. Table with columns: Species, Region, Stream Zone, Wildlife Value, Notes.

Check Dam Cd. DEFINITION A temporary grade control structure, or dam constructed across a swale, drainage ditch, or area of concentrated flow.

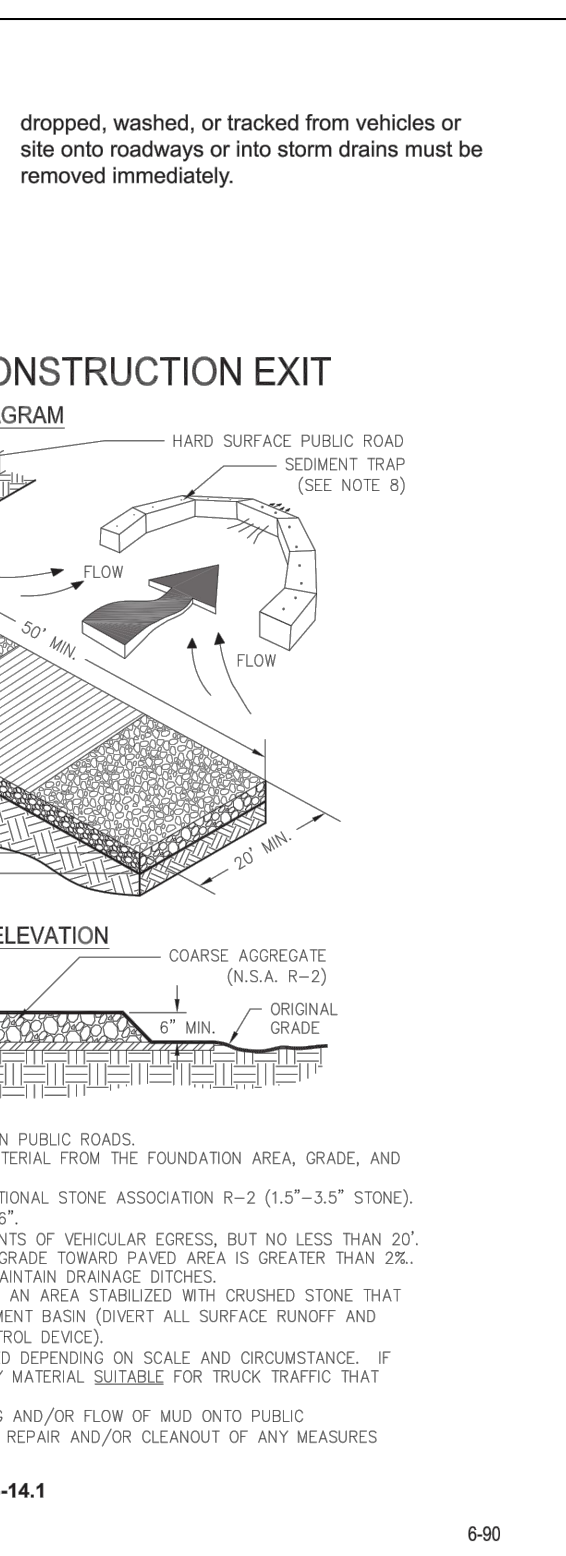
Installation Bales should be bound with wire or nylon string. Twelve bound bales are less durable. The bales should be placed in rows with bales ends lightly abutting the adjacent bales.

Downstream Row (Refer to Figure 6-12.3) Dig a trench across the small channel, wide enough and deep enough so that the top of the row of bales placed on their long, wide side is level with the ground.



Construction Exit Co. DEFINITION A stone stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk or parking area or any other area where there is a transition from bare soil to a paved area.

Crushed Stone Construction Exit. DEFINITION The exit shall be located or protected to prevent sediment from leaving the site.



Aggregate Size. Stone will be in accordance with National Stone Association R-2 (1.5 to 3.5 inch stone).

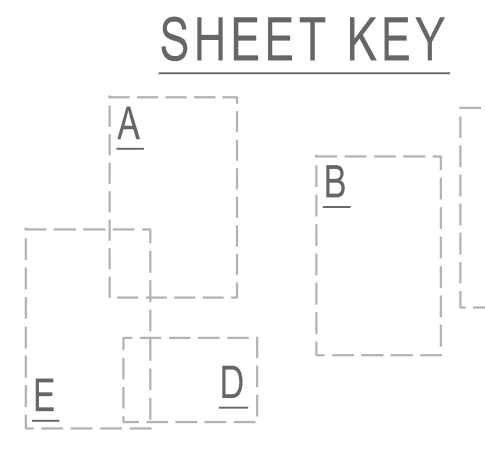
Notes. 1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (CHECK DAMS NOT TO BE USED IN LIVE STREAMS).

GEORGIA8 Utilities Protection Center, Inc. 1-800-383-7411

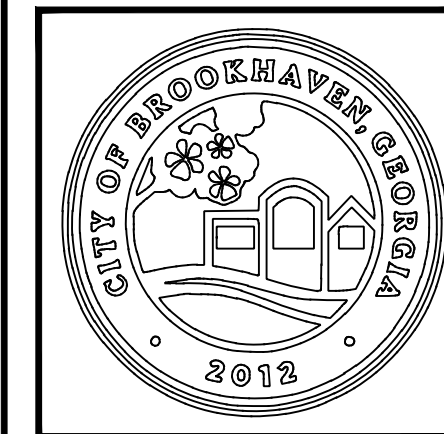
2018 SURVEY & 2019 UPDATED TREE SURVEY TERRAMARK LAND SURVEYING, INC. 1306 BELLS FERRY ROAD MARIETTA, GEORGIA 30066

PROJECT NUMBER 15092.00 C7.6D 1.5 DRAWING NUMBER

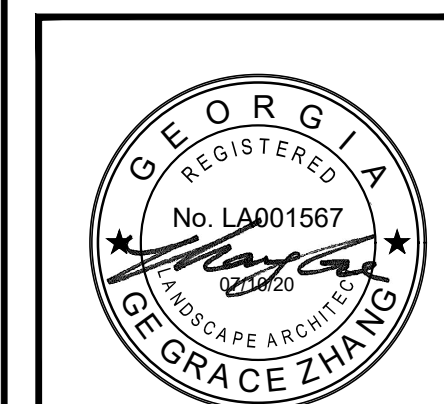
APPROVED PLAN 08/16/2021 Permit # LDP20-00020



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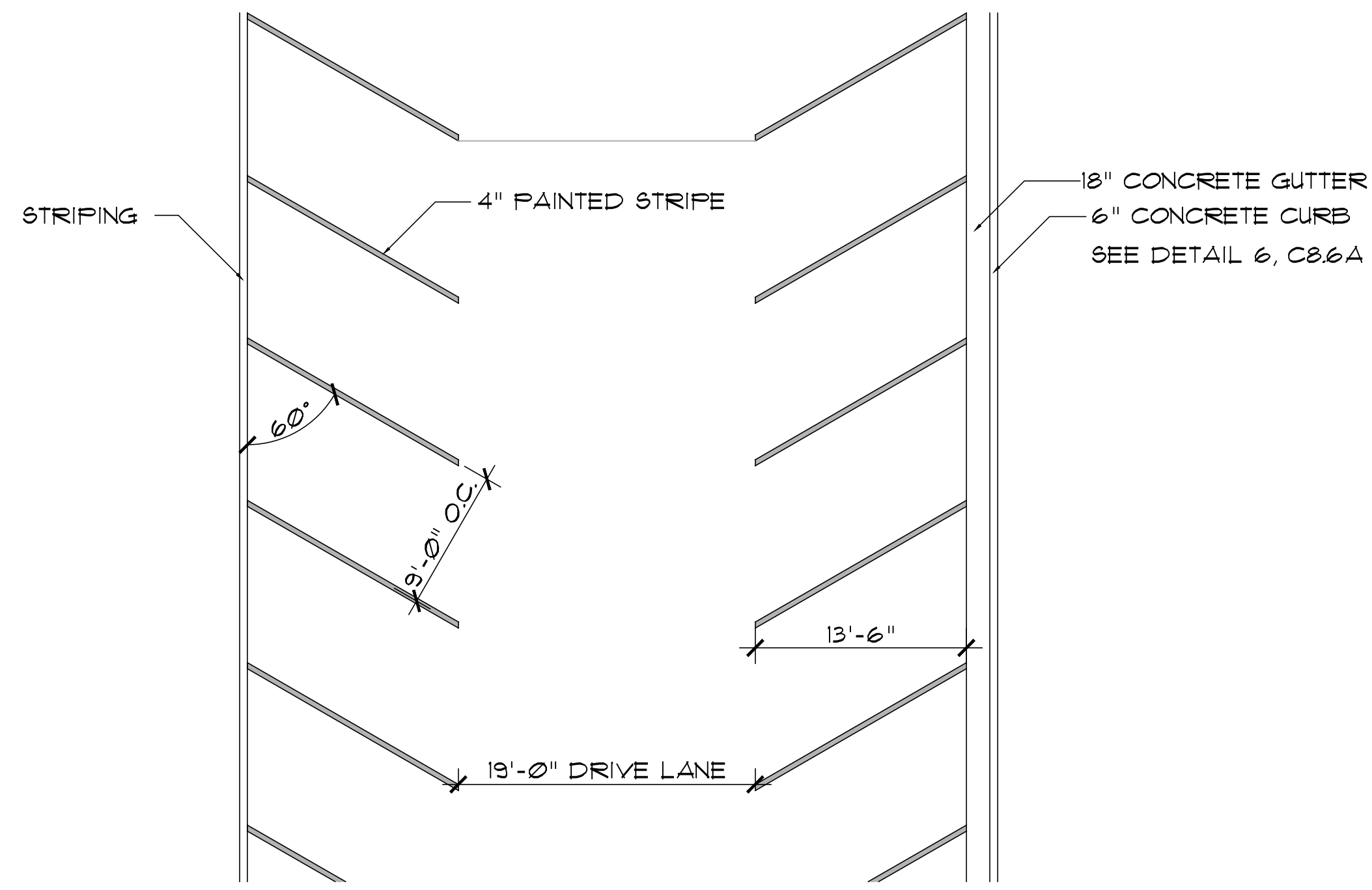
DRAWINGS SCHEDULE table with columns: No., Date, Description.



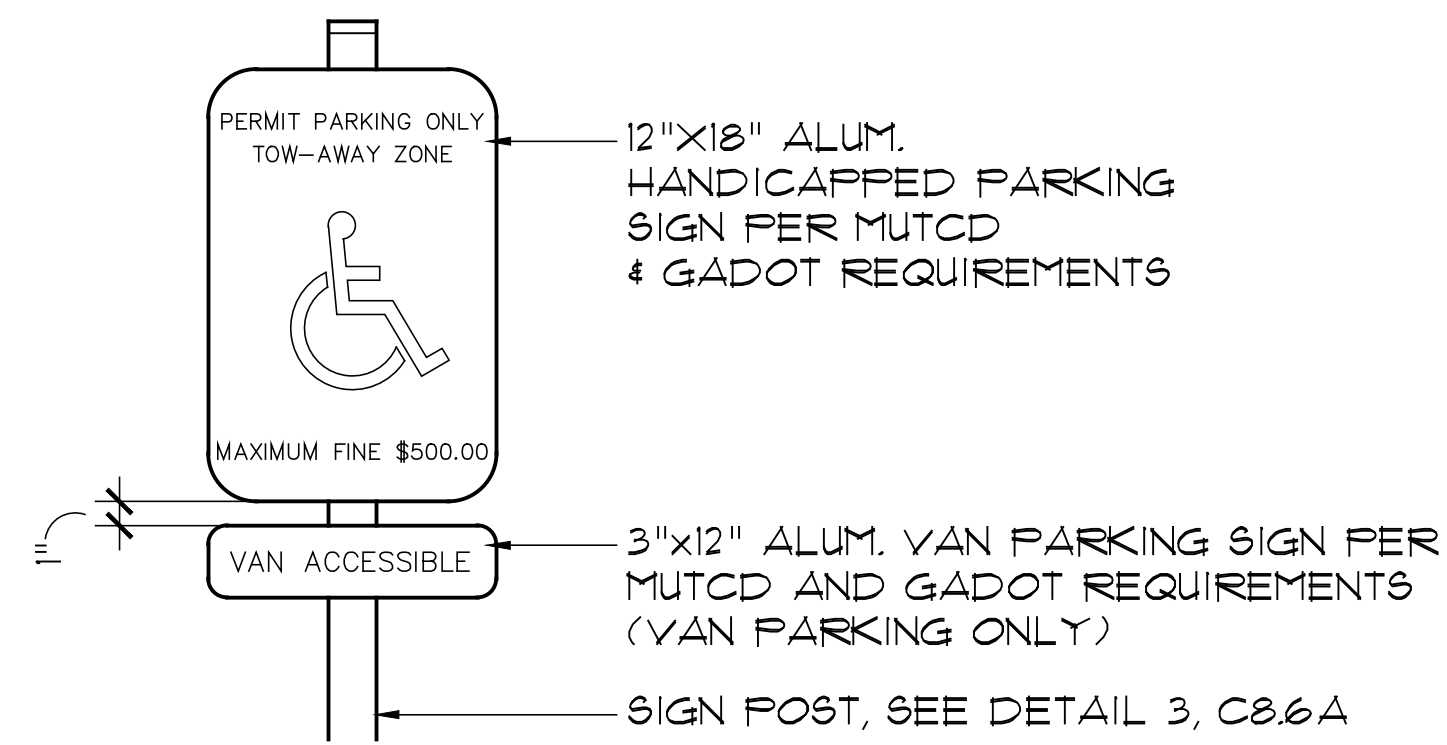
CITY OF BROOKHAVEN MURPHY CANDLER PARK 1551 W. NANCY CREEK DRIVE NE BROOKHAVEN, GEORGIA 30319

DATE 04/23/20 DRAWN BM CHECKED CZ

EROSION CONTROL DETAILS I



1 PARKING LAYOUT - TYP.
NTS

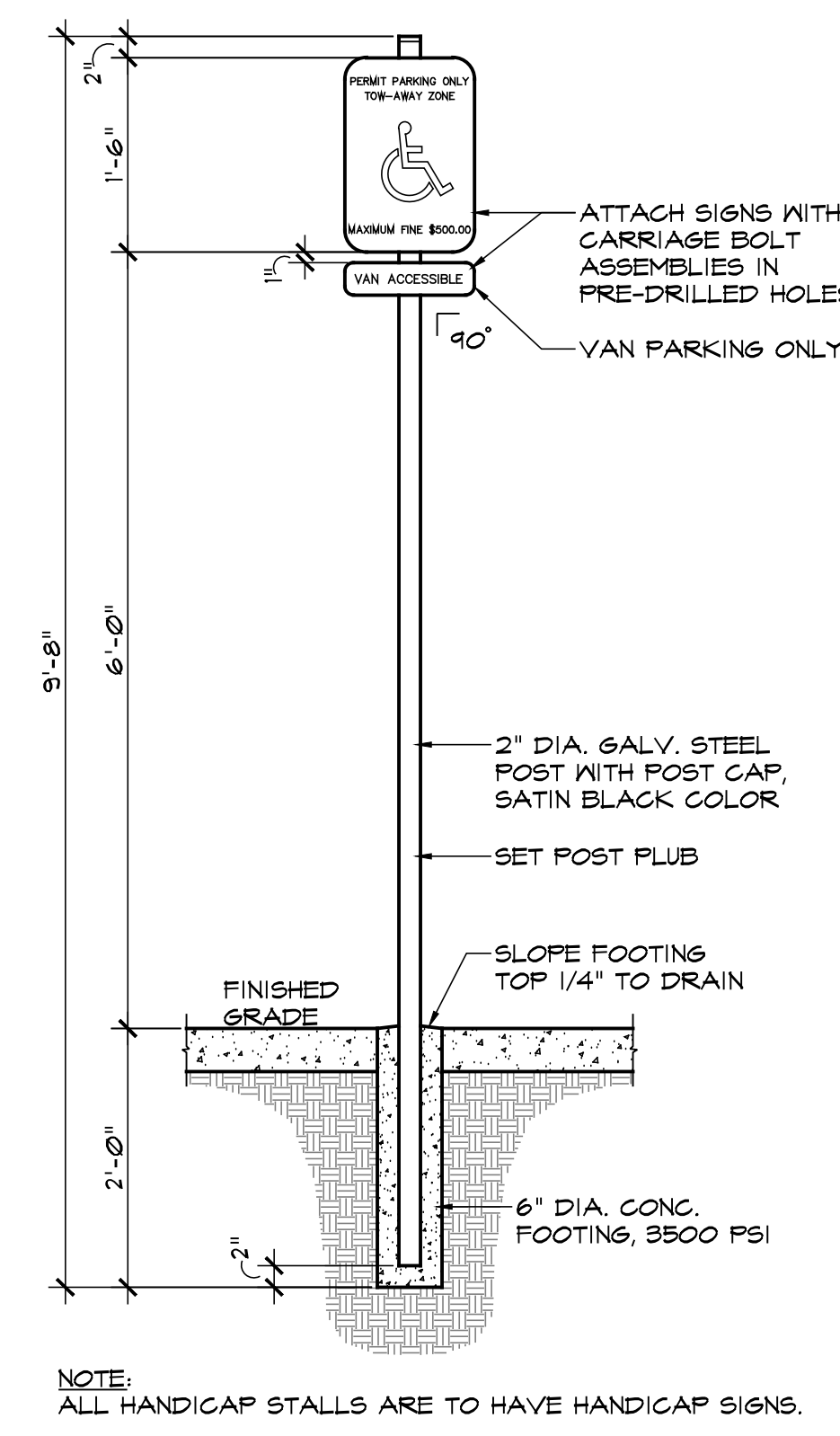


2 HANDICAP PARKING SIGN - VAN ACCESSIBLE
NTS



2A FIRE LANE SIGN
NTS

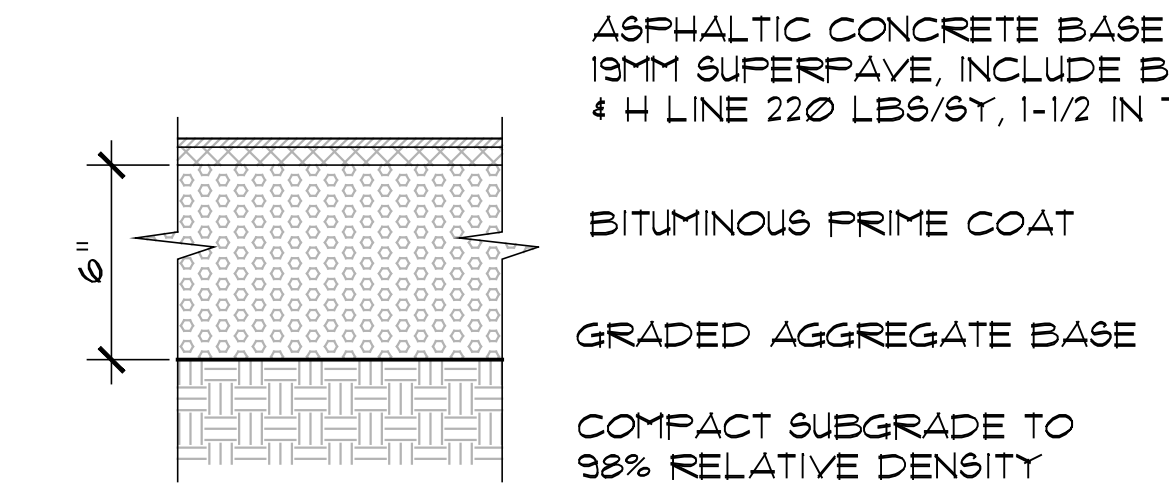
SIGN: 12"X18" ALUM. APPROVED FIRE LANE SIGN
SIGN POST: SEE DETAIL 3/C8.6A
SIGN HEIGHT: 5' FROM BOTTOM OF SIGN TO FINISH GRADE



3 HANDICAP SIGN POST
3/4"=1'-0"

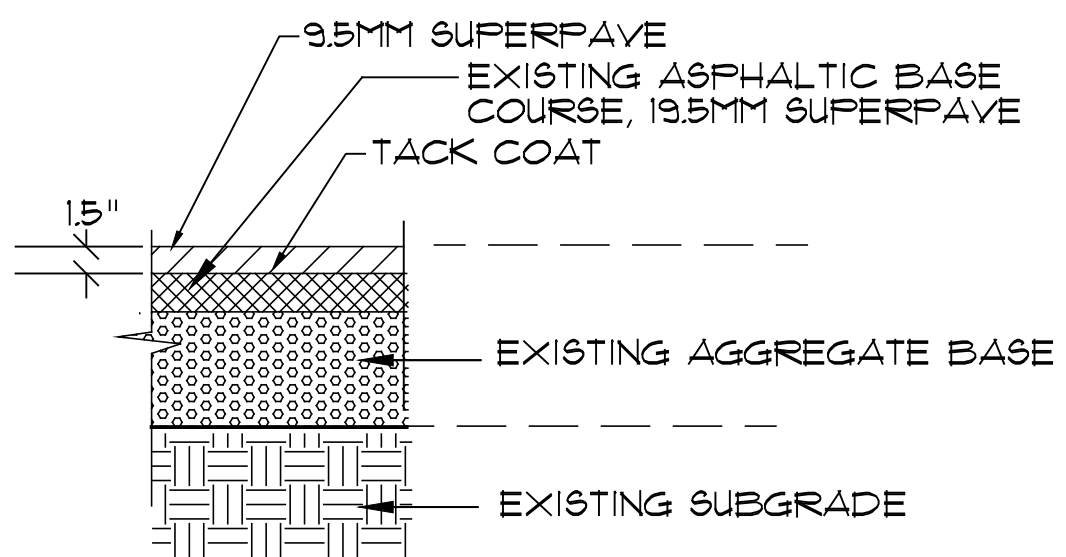
9.5MM SUPERPAVE LEVEL A, INCLUDE BITUM MATL & H LINE 165 LBS/ST, 1 IN THICKNESS

TACK COAT



NOTE: ASPHALTIC CONCRETE PAVING TO MEET GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS. SURFACE COURSE NOT TO BE PAVED UNTIL ALL HEAVY CONSTRUCTION (AND RELATED TRAFFIC) IS COMPLETE.

4 NEW ASPHALT PAVING - TYP.
1-1/2"=1'-0"



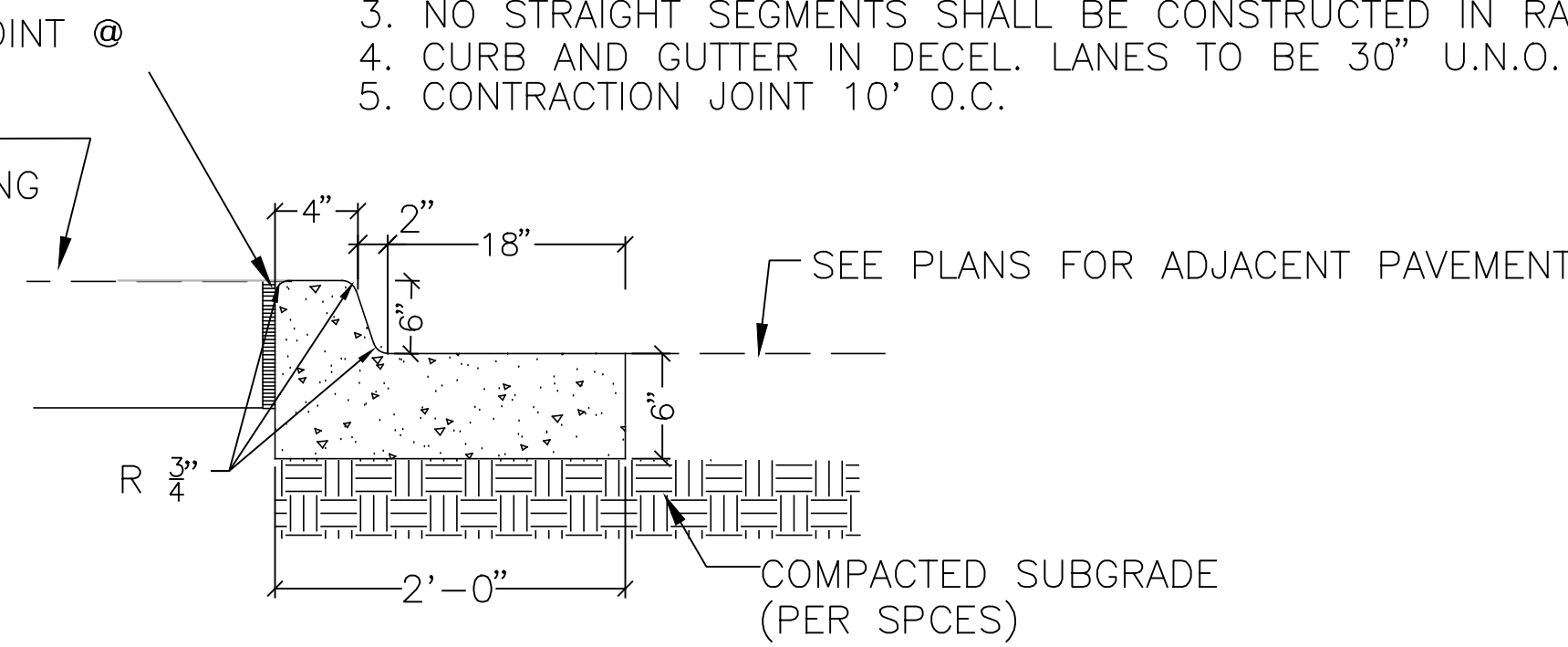
NOTE: SURFACE COURSE NOT TO BE PAVED UNTIL ALL HEAVY CONSTRUCTION (AND RELATED TRAFFIC) IS COMPLETE

NOTE: ASPHALTIC CONCRETE PAVING TO MEET GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS.

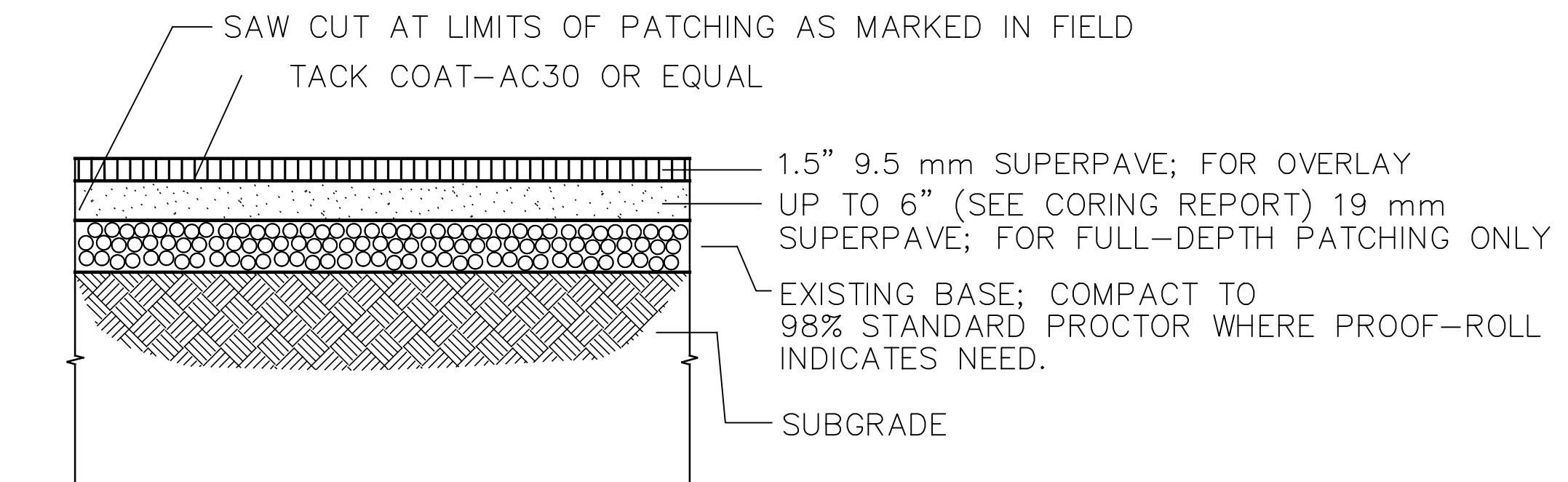
5 ASPHALT PAVING OVERLAY - TYP.
1-1/2"=1'-0"

NOTES:
1. PROVIDE EXPANSION JOINTS 20' O.C. MAX. AT ENDS & MID POINTS OF RADIUS RETURNS AND ANY POINT NEW CURB & GUTTER ABUTS EXISTING OR PROPOSED CONCRETE.
2. PROVIDE 5' LONG TRANSITION BETWEEN NORMAL AND PITCHED GUTTER UNLESS OTHERWISE NOTED ON PLANS.
3. NO STRAIGHT SEGMENTS SHALL BE CONSTRUCTED IN RADII.
4. CURB AND GUTTER IN DECEL. LANES TO BE 30" U.N.O.
5. CONTRACTION JOINT 10' O.C.

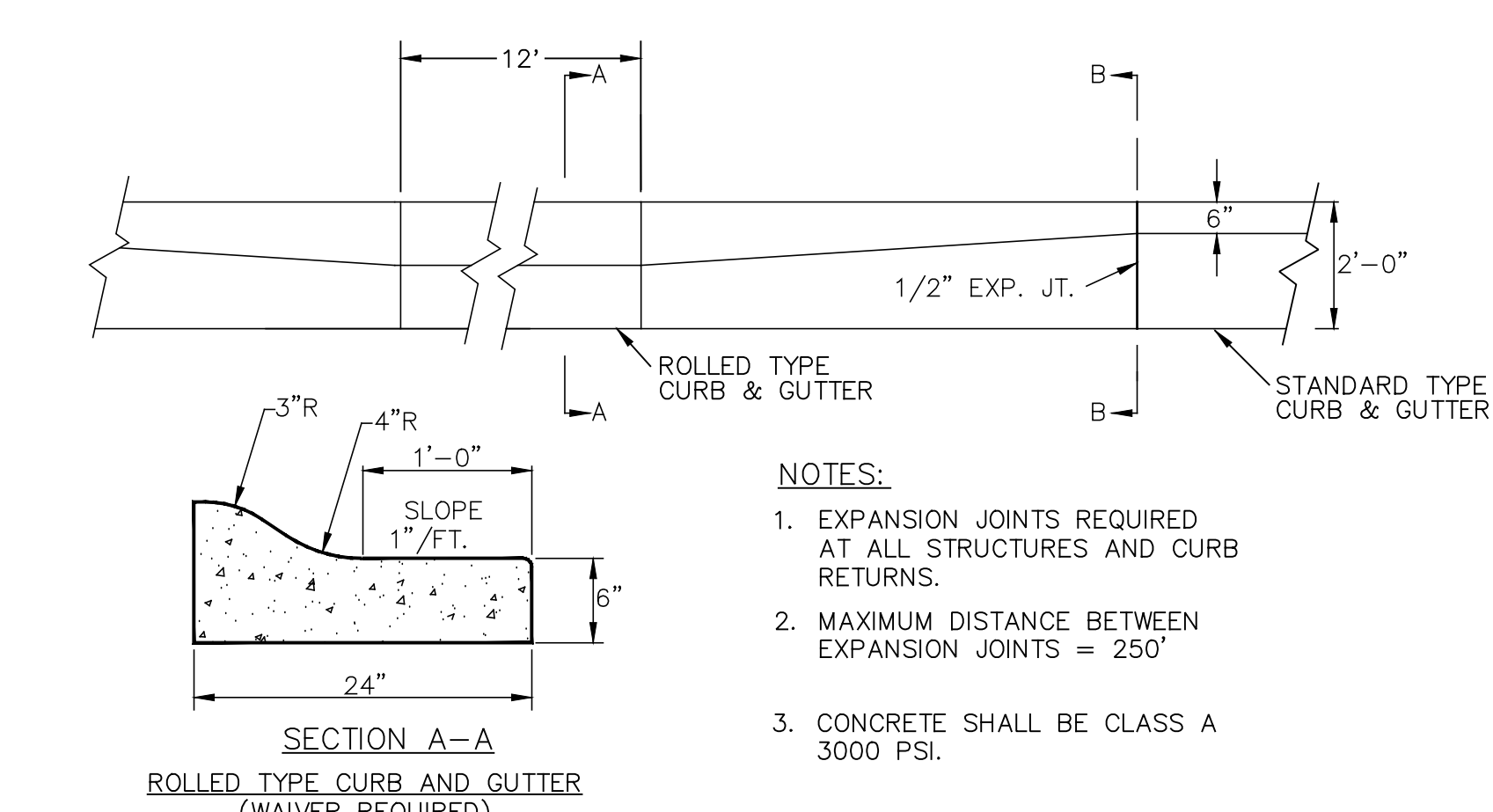
NOTE: CURB DETAIL TO MEET ALABAMA DEPARTMENT OF TRANSPORTATION STANDARDS.
1/2" EXPANSION JOINT @ ADJ. CONC. ONLY. TURF AREA OR CONCRETE PAVING SEE LAYOUT PLANS FOR LOCATIONS.



6 CURB AND GUTTER
1-1/2"=1'-0"

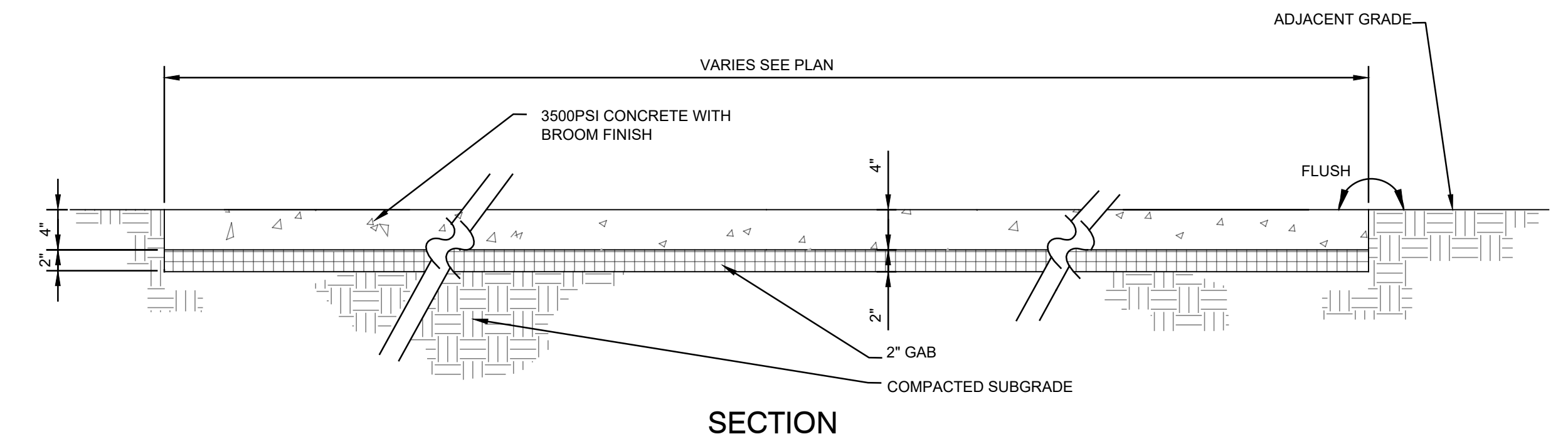
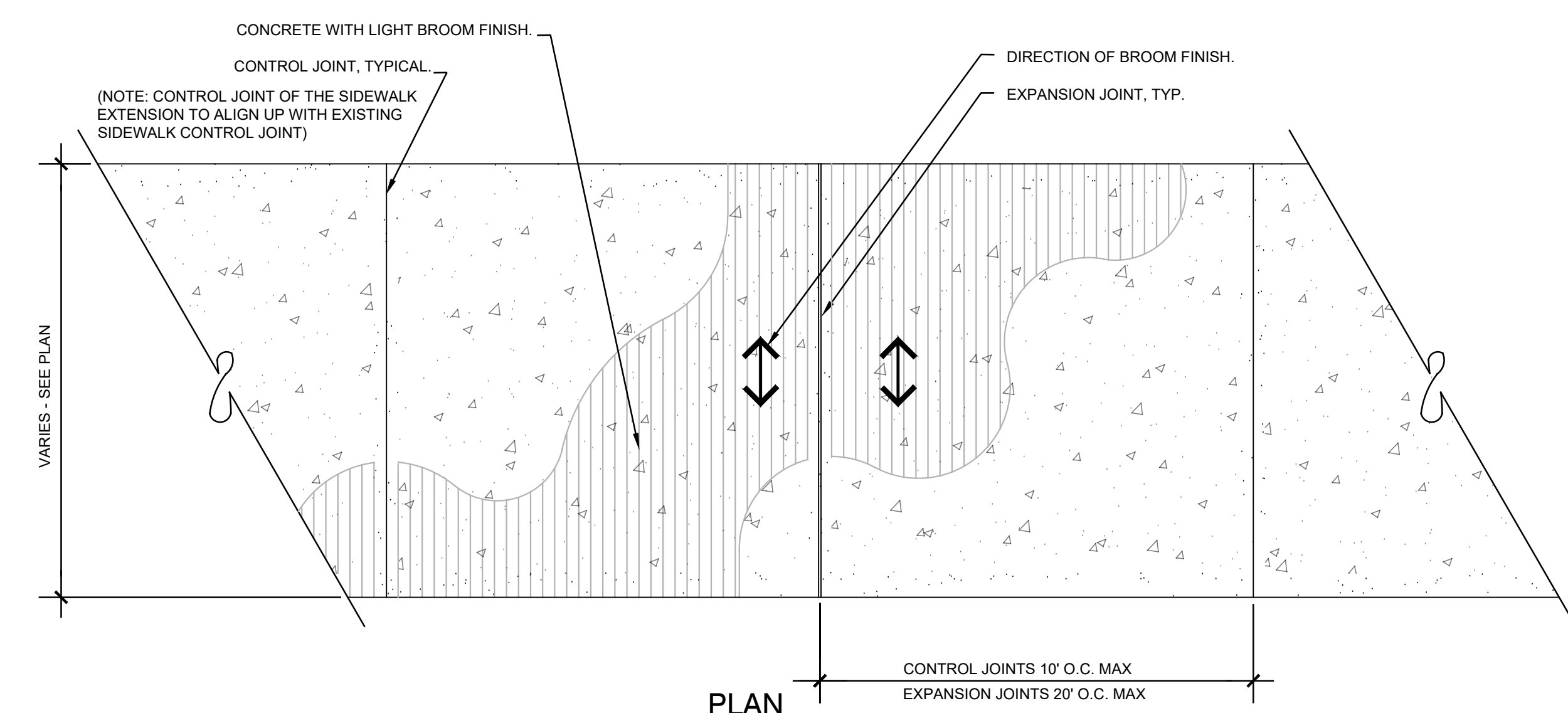


7 ASPHALT PATCH
NTS

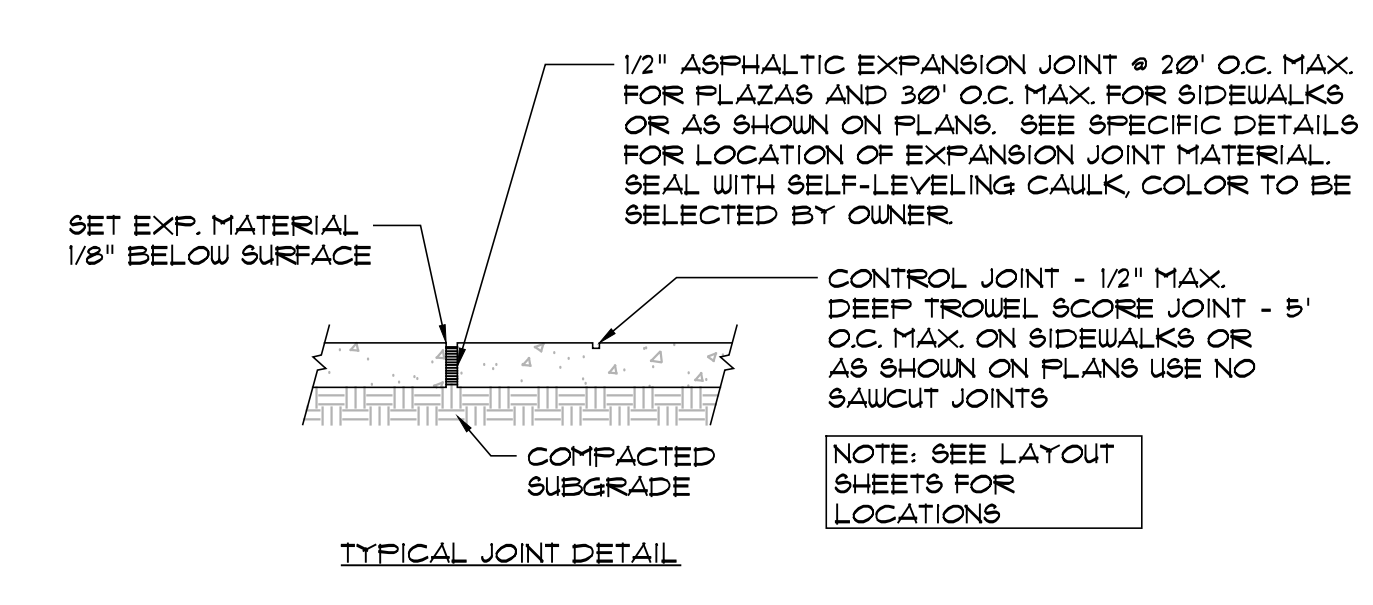


11 ROLL DOWN CURB TRANSITION
NTS

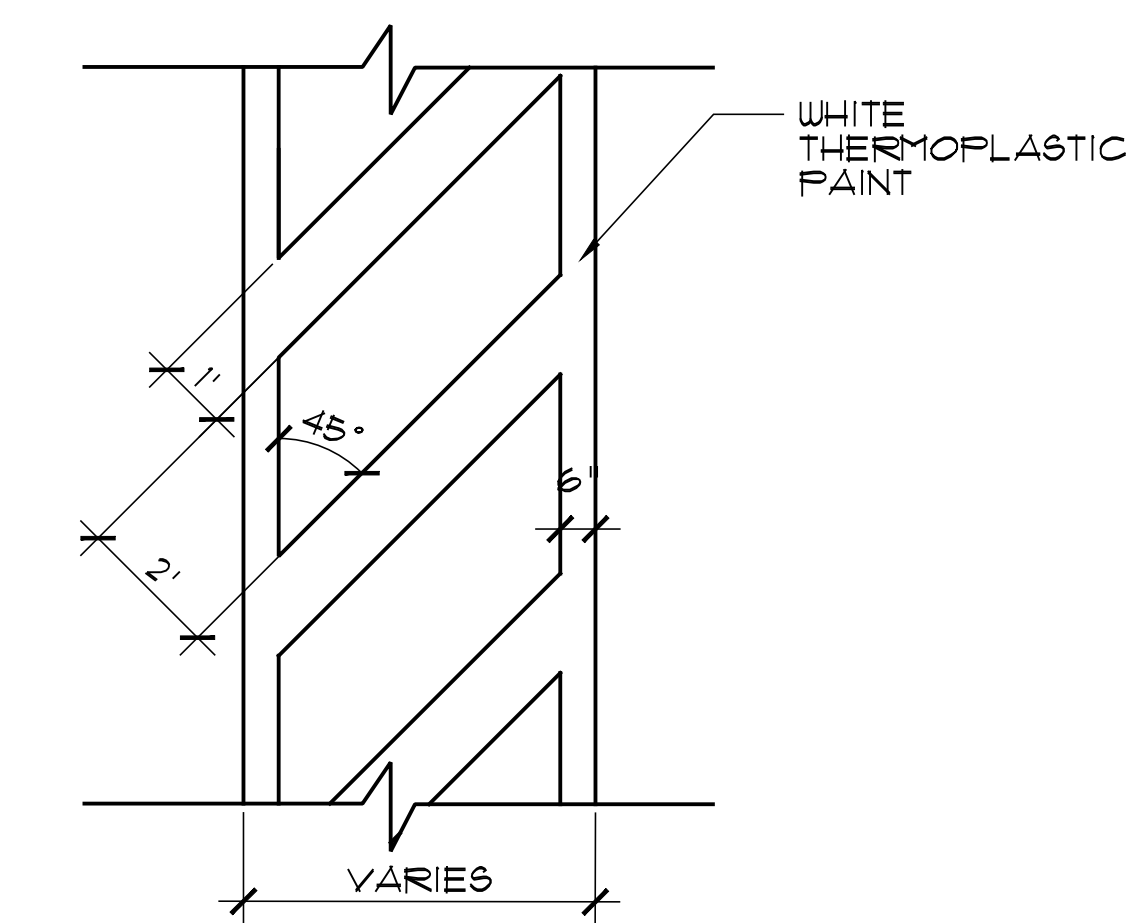
NOTES:
1. EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 250'
3. CONCRETE SHALL BE CLASS A 3000 PSI.



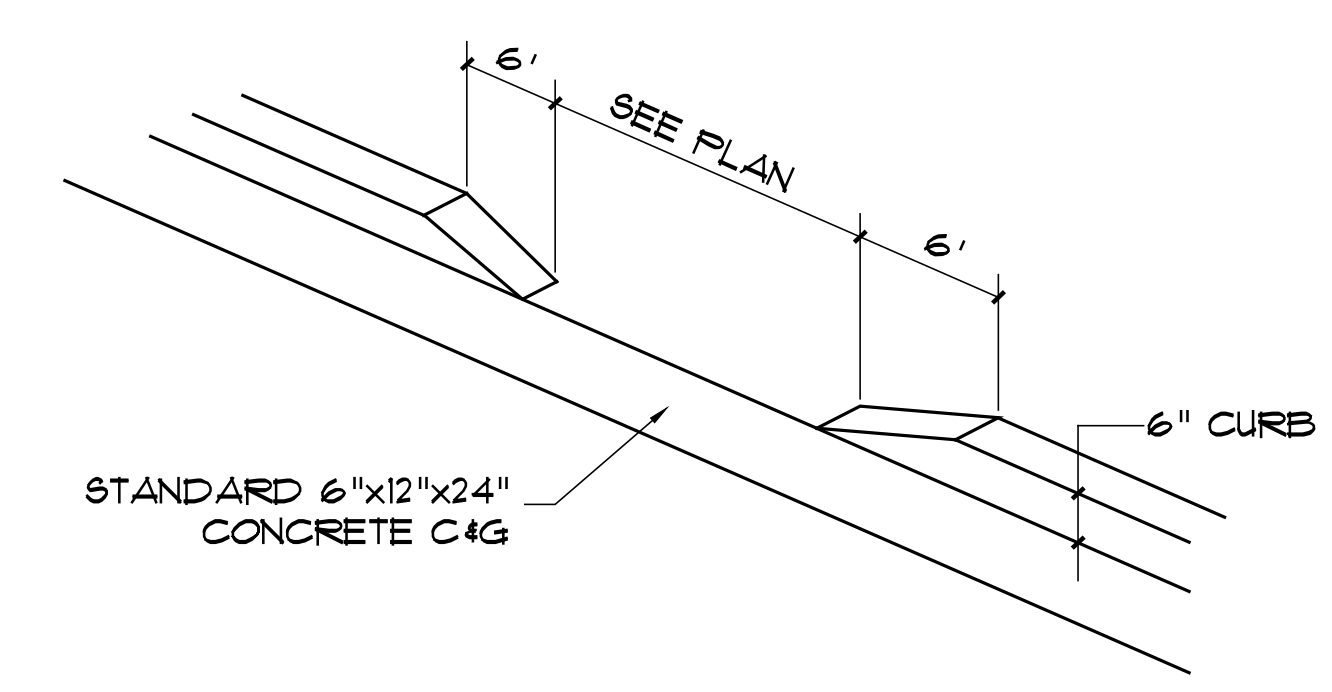
8 CONCRETE SIDEWALK
1-1/2"=1'-0"



9 TYPICAL JOINT
3/4"=1'



10 STRIPING
NTS



12 CONCRETE CURB CUT
NTS

| No. | Date | Description |
|-----|-------|--|
| 11 | 09/17 | LDP - South Trail - City Council #2 |
| 12 | 09/17 | LDP - South Trail - City Council #1 |
| 13 | 10/13 | LDP - Pool Parking - City Council #1 |
| 14 | 10/16 | LDP - Habitat Play Area Field Change #1 |
| 15 | 10/19 | Multi-Use Trail in Glen - Piedmont Rowan |
| 16 | 11/18 | LDP - Pool Parking - City Council #2 |
| 17 | 11/20 | LDP - Community Green - City Council #2 |
| 18 | 11/20 | LDP - Community Green - City Council #1 |
| 19 | 11/20 | WORTH BONDHOLDERS DESIGN/CONTRACT |
| 20 | 12/01 | Multi-Use Trail in Glen - Piedmont Rowan |
| 21 | 12/01 | Multi-Use Trail in Glen - Piedmont Rowan |
| 22 | 12/30 | SPRCC Submittal |
| 23 | 01/11 | COMMUNITY GREEN - BUA DMS PERMIT #1 |
| 24 | 02/04 | SPRCC Submittal |
| 25 | 02/11 | WORTH BONDHOLDERS DESIGN/CONTRACT |
| 26 | 03/03 | SPRCC Submittal #1 |
| 27 | 04/13 | LDP - Community Green - City Council #1 |
| 28 | 04/15 | LDP - Habitat - City Council #2 |
| 29 | 04/15 | LDP - Pool Parking - City Council #1 |

| | | |
|-------------|-------|---------|
| DATE | DRAWN | CHECKED |
| 03/03/21 | GZ | MC |
| SCALE | | |
| SHEET TITLE | | |

SITE DETAILS
POOL PARKING

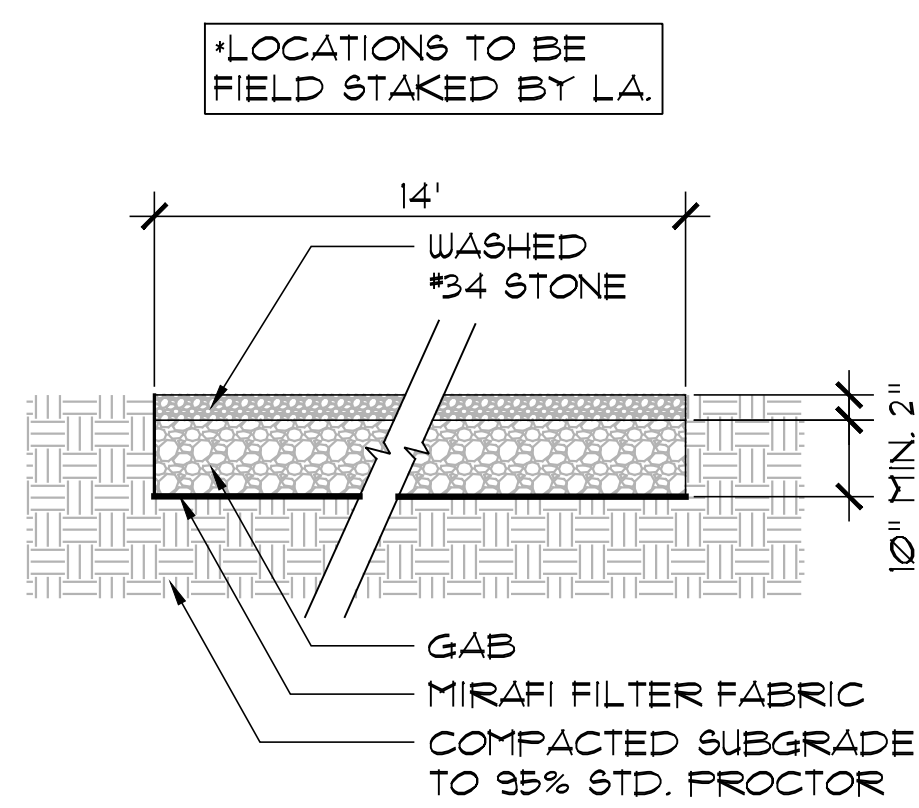
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| C8.6A | |
| 19 | |
| DRAWING NUMBER | |

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 Date last plotted: 4/14/2021 1:03 AM
 Plotted By: Grace Zhang

| No. | Date | Description |
|-----|-------|---|
| 11 | 09/17 | LDP - South Trail - City Council #2 |
| 12 | 09/17 | LDP - South Trail - City Council #1 |
| 13 | 10/13 | LDP - Pool Parking - City Council #1 |
| 14 | 10/16 | LDP - Habitat Play Area Field Change #1 |
| 15 | 10/19 | Multitask Trail on Oak - Redwood Row #1 |
| 16 | 11/18 | LDP - Pool Parking - City Council #2 |
| 17 | 11/20 | LDP - Community Green - City Council #2 |
| 18 | 11/20 | LDP - Redwood Row - City Council #1 |
| 19 | 11/20 | NORTH BONDWALK DESIGN/CONSTRUCTION |
| 20 | 12/01 | Multitask Trail on Oak - Redwood Row #1 |
| 21 | 12/01 | Multitask Trail on Oak - Redwood Row #2 |
| 22 | 12/30 | EMVCC Submittal |
| 23 | 01/11 | COMMUNITY GREEN - BULK/DMA PERMIT #1 |
| 24 | 02/04 | EMVCC Submittal |
| 25 | 02/11 | EMVCC Submittal |
| 26 | 03/03 | EMVCC Submittal #3 |
| 27 | 04/13 | LDP - Community Green - City Council #1 |
| 28 | 04/15 | LDP - Redwood Row - City Council #2 |
| 29 | 04/15 | LDP - Pool Parking - City Council #1 |

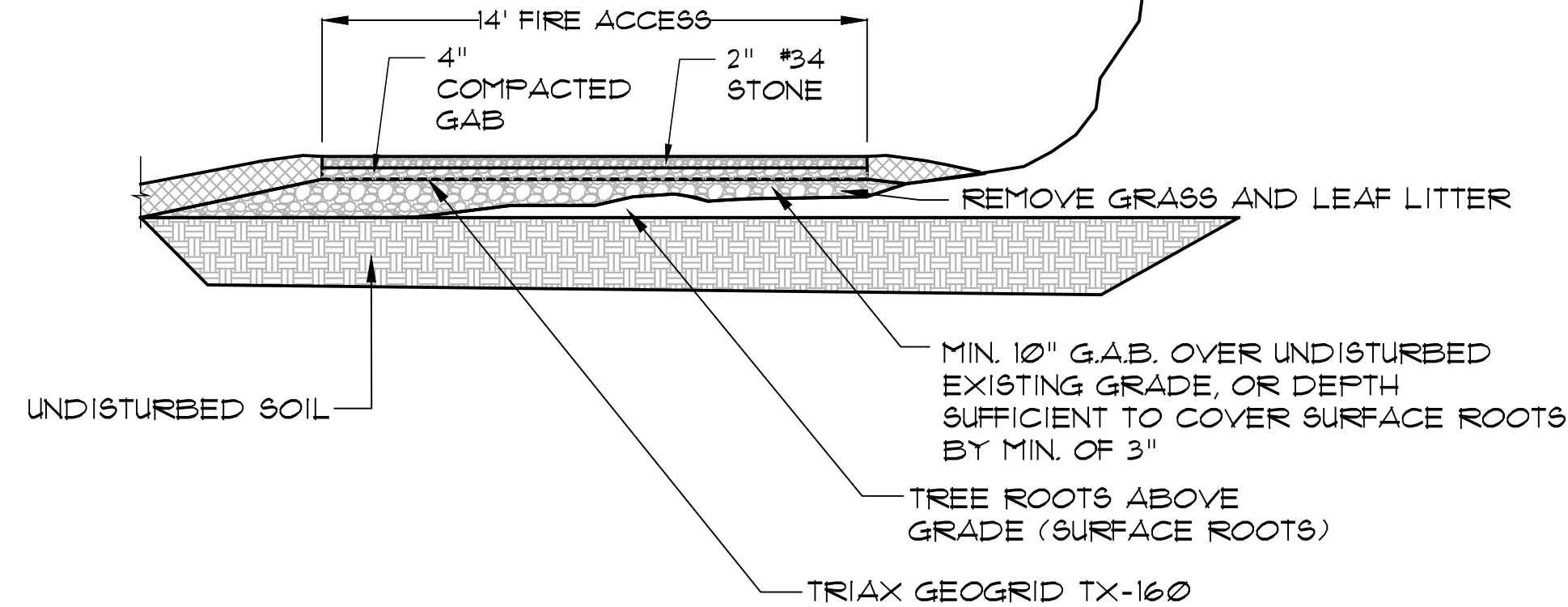
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| 03/03/21 | GZ | MC |
| SCALE | | |
| SHEET TITLE | | |

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|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| DRAWING NUMBER | C8.6B |
| | 20 |



A: GRAVEL FIRE ACCESS ROAD

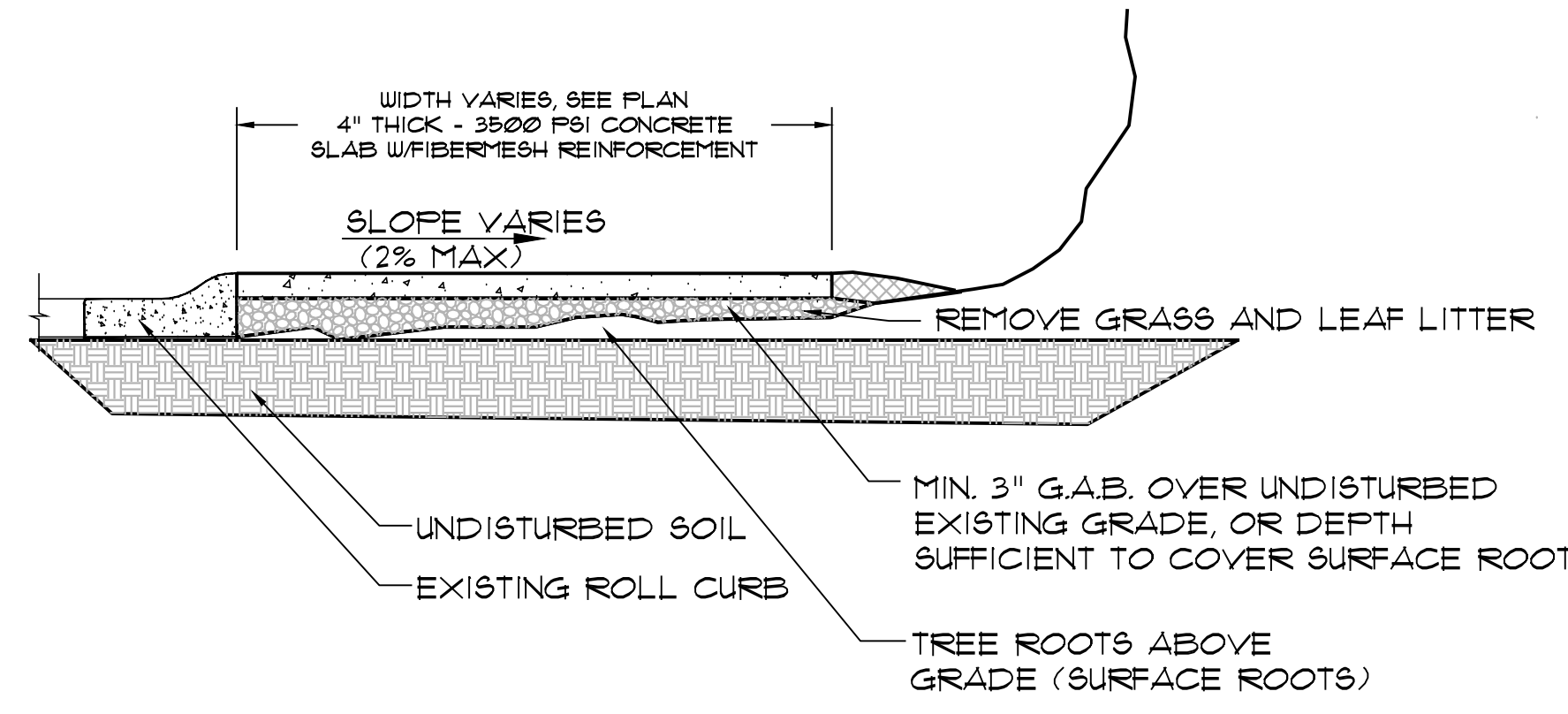
NOTE: WHERE FIRE ACCESS ROAD PASSES CLOSE TO A TREE, CONTRACTOR SHALL "FLOAT" THE ACCESS ROAD ABOVE THE LEVEL OF EXISTING GRADE IN ORDER TO AVOID DAMAGE TO THE ROOTS. CONTRACTOR SHALL COORDINATE SUCH SPECIAL CONSTRUCTION IN THE FIELD WITH THE LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE. GAB SHALL BE WALKED IN TO TOP LAYER OF TOPSOIL WITH LIGHTWEIGHT EQUIPMENT.



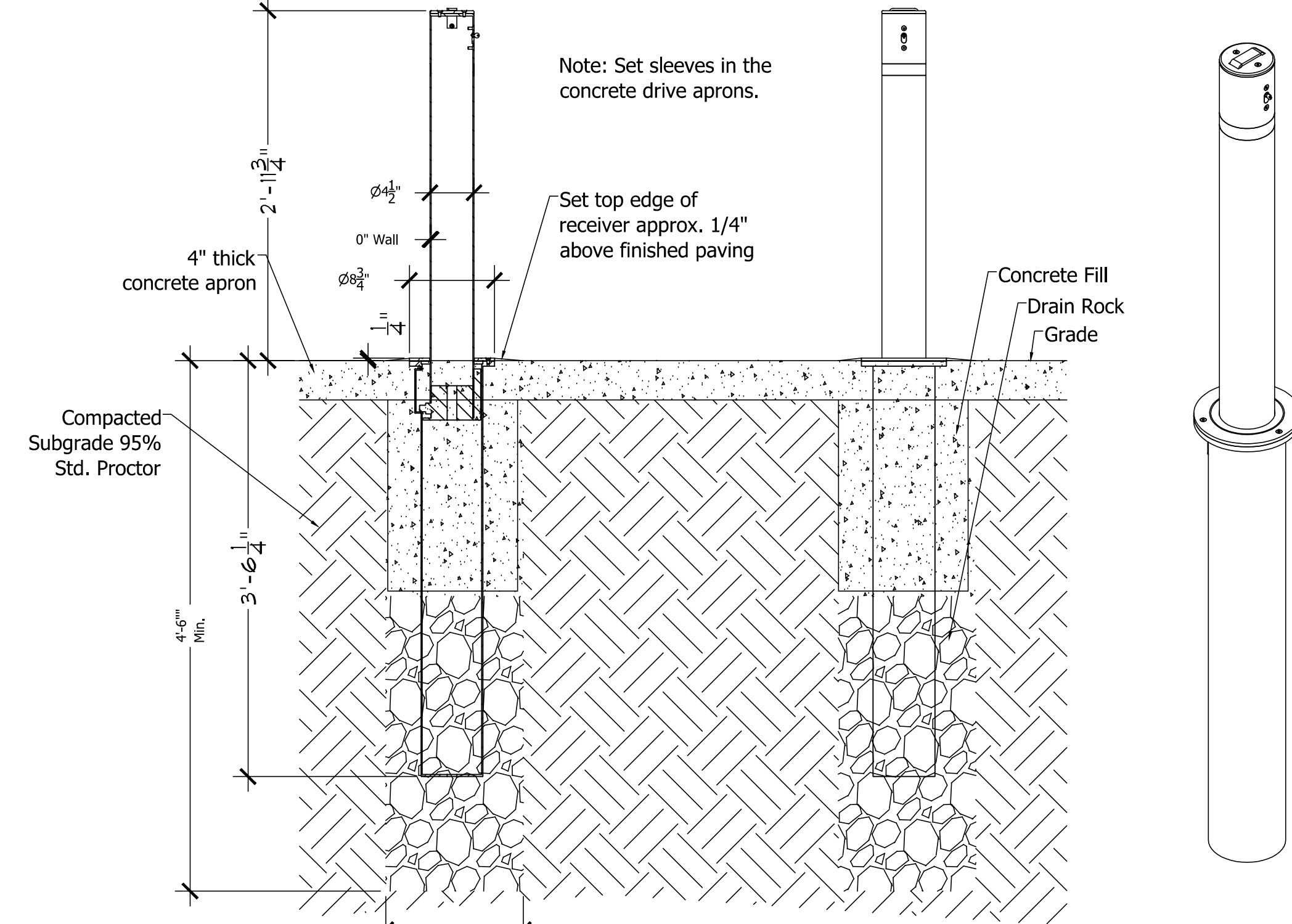
B: ACCESS ROAD OVER TREE ROOTS

1 GRAVEL DRIVEWAY
1"=1'-0"

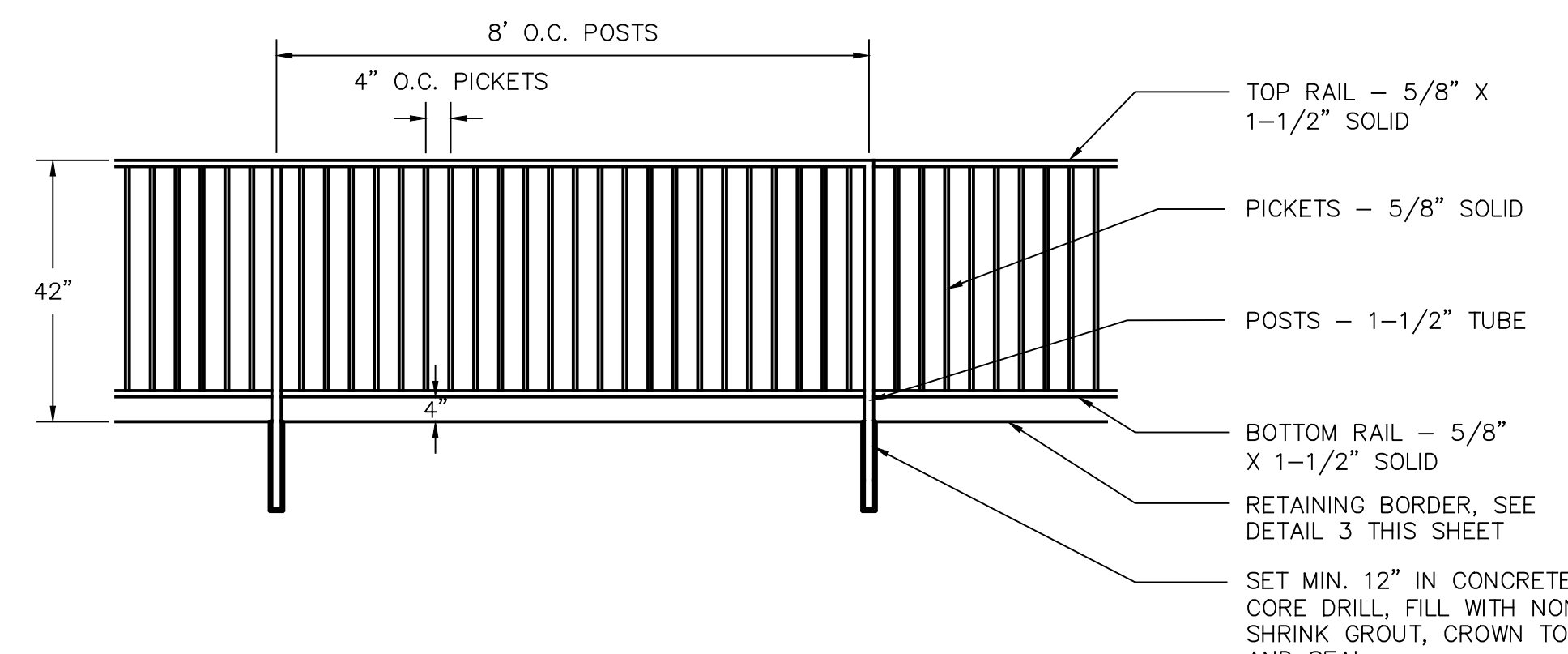
NOTE: WHERE SIDEWALK PASSES CLOSE TO A TREE, CONTRACTOR SHALL "FLOAT" THE SIDEWALK ABOVE THE LEVEL OF EXISTING GRADE IN ORDER TO AVOID DAMAGE TO THE ROOTS. CONTRACTOR SHALL COORDINATE SUCH SPECIAL CONSTRUCTION IN THE FIELD WITH THE LANDSCAPE ARCHITECT OR OWNER REPRESENTATIVE.



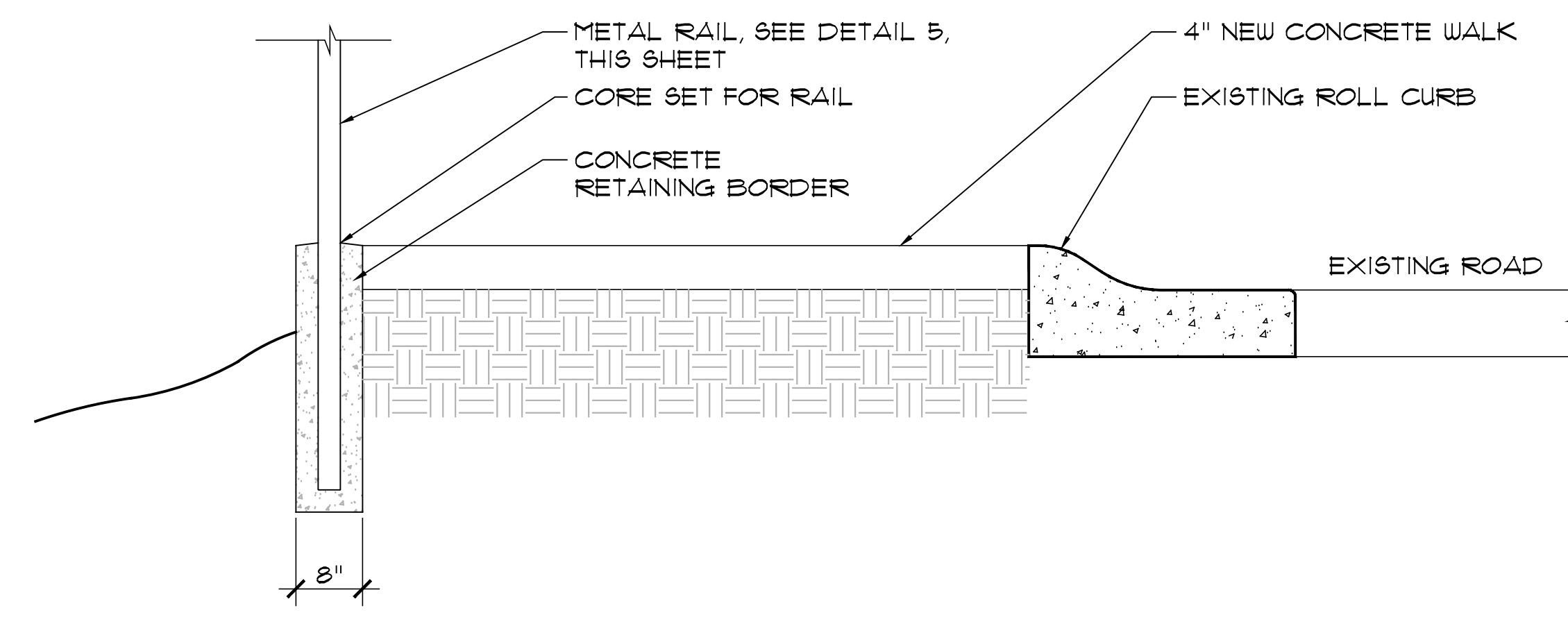
4 CONCRETE TRAIL OVER TREE ROOTS
NTS



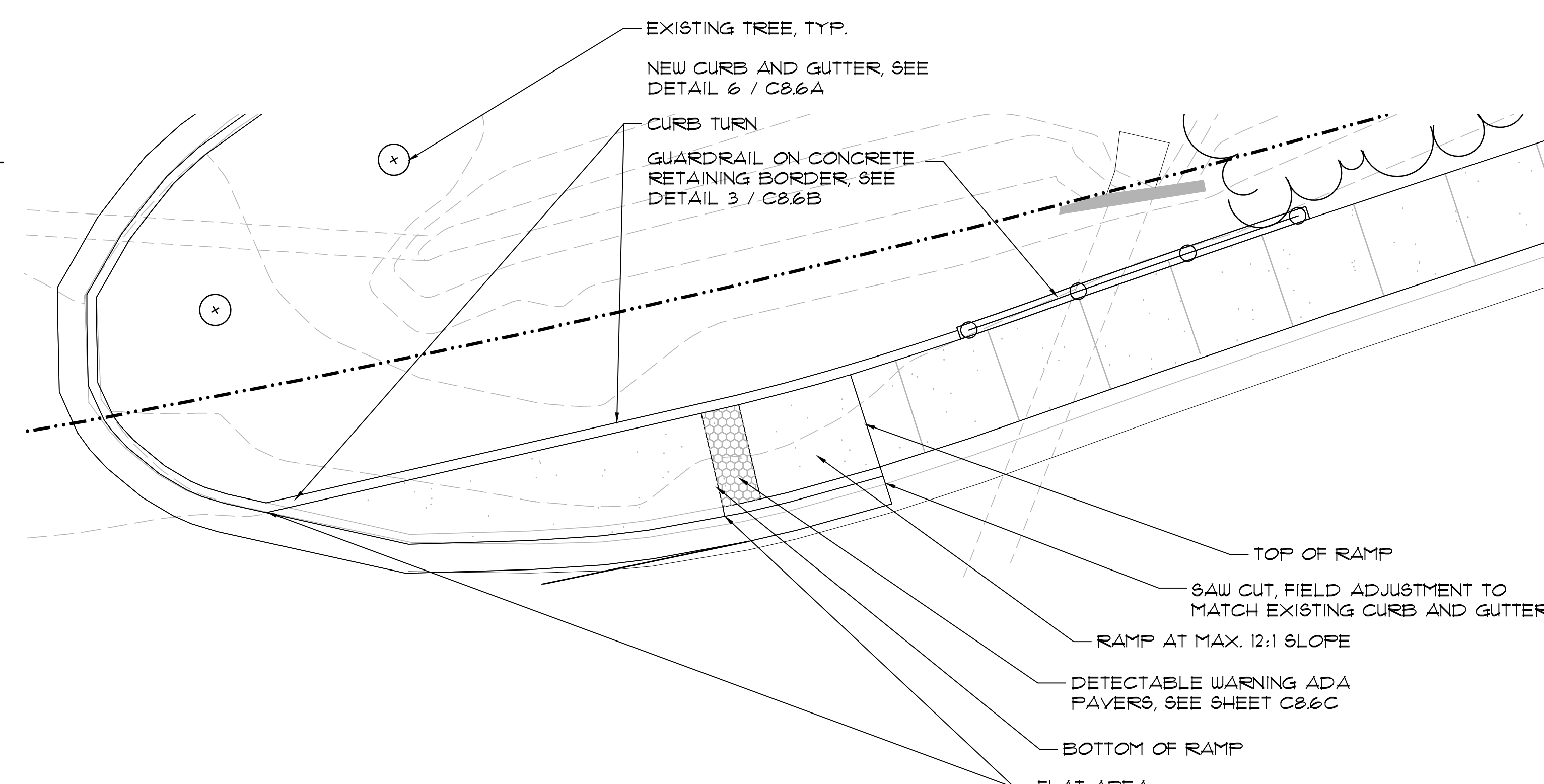
2 REMOVABLE BOLLARD
NTS



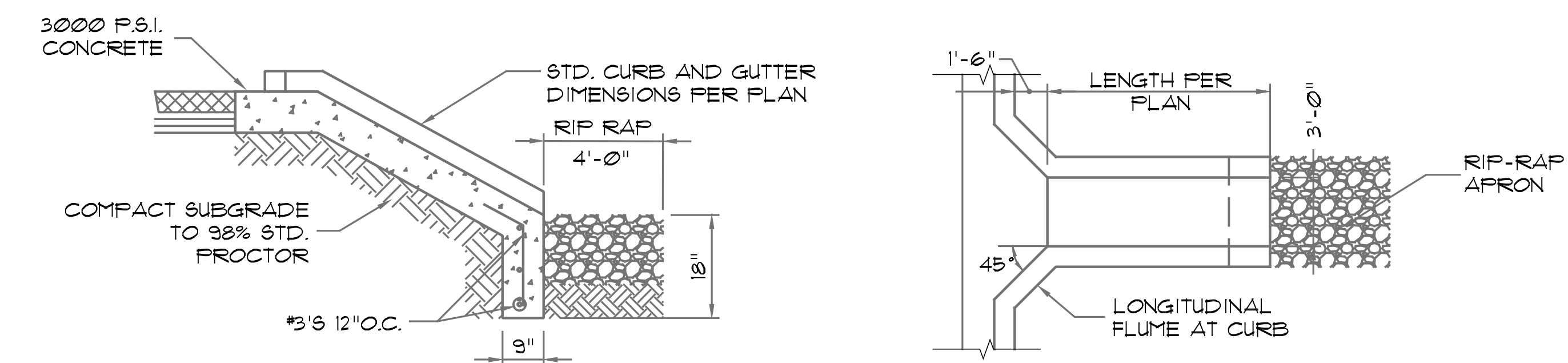
5 GUARDRAIL
NTS



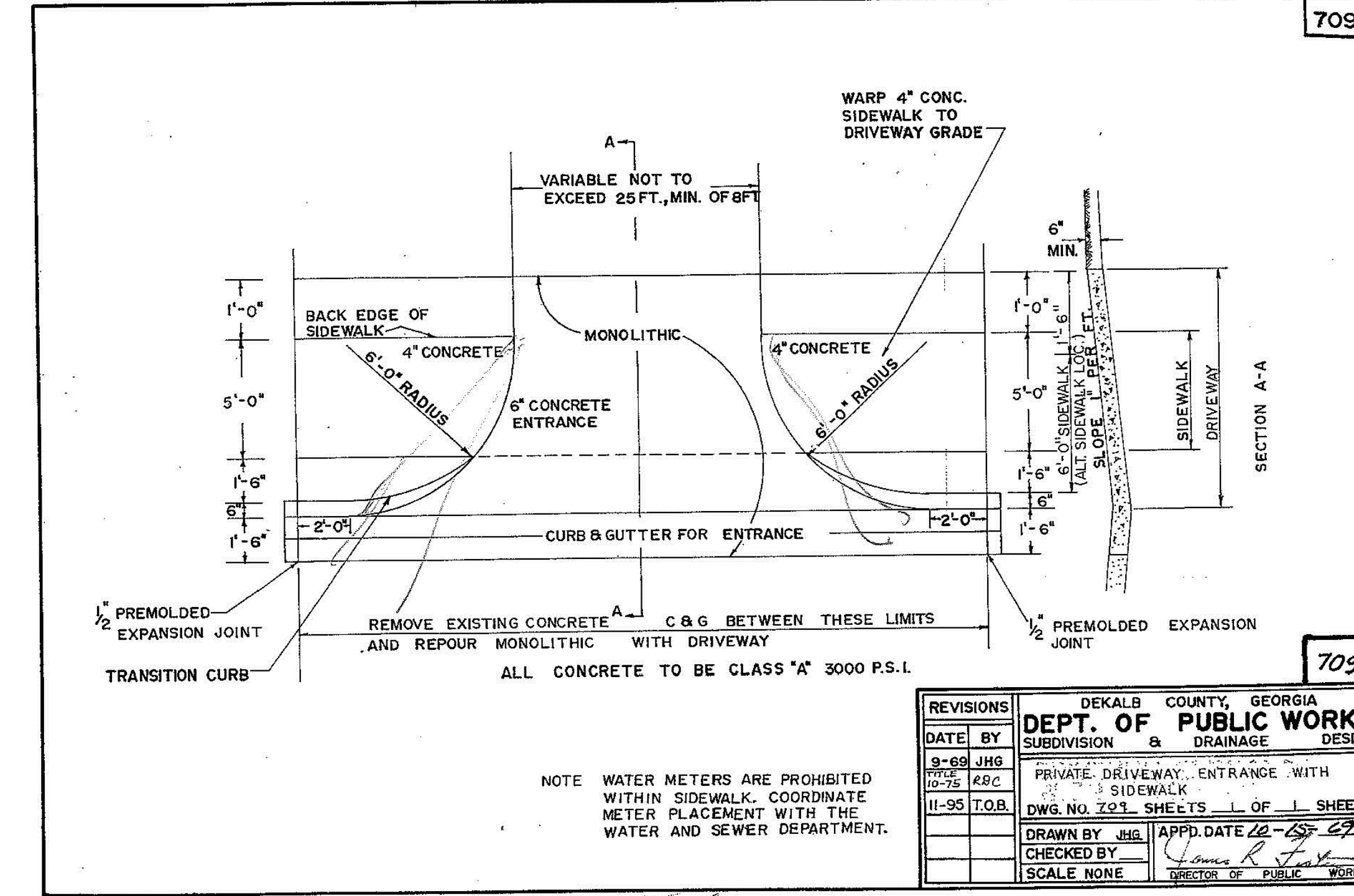
3 CONCRETE RETAINING BORDER WITH GUARDRAIL
1 1/2"=1'-0"



6 ADA RAMP ENLARGEMENT
1"=5'-0"

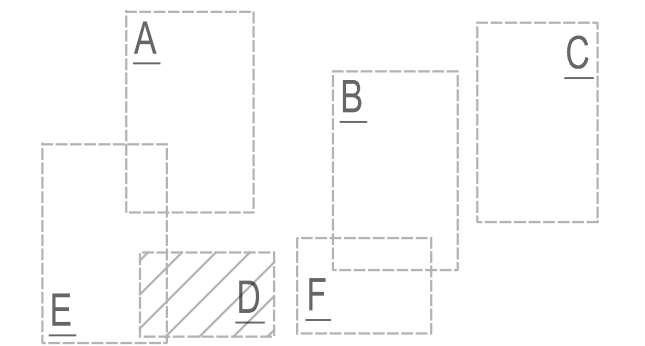


7 CONCRETE FLUME
NTS



8 CONCRETE APRON - DEKALB DOT STANDARD
NTS

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 Date last accessed: 4/15/2021 1:55 PM
 Plotted By: Grace Zhang
 Date last plotted: 4/15/2021 10:09 AM



| PLANT MATERIAL | | | | | |
|----------------|-------------------------|------------------|--------|--|----------|
| SYMBOL | SCIENTIFIC NAME | COMMON NAME | COUNT | SIZE | SPACING |
| | NYSSA SYLVATICA | TUPELO | 6 | SINGLE TRUNK, WELL FORMED SPECIMEN TREE, 4" CAL. | SPECIMEN |
| | DARUMA LOROPETALUM | RUBY LOROPETALUM | 84 | 3 GAL. | 3' O.C. |
| | ILEX GLABRA | INKBERRY HOLLY | 74 | 3 GAL. | 30" O.C. |
| | OSMANTHUS FRAGRANS | TREE OLIVE | 25 | 5 GAL. | 8' O.C. |
| | MUHLENBERGIA CAPILLARIS | PINK MUHLY GRASS | 176 SF | 4" CUP | 12" O.C. |
| | MULCH | AGED HARDWOOD | 10 | CY | 3" THICK |



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|------|---|
| 11 | 0817 | LDP - Sub. Tral - City Comment #2 |
| 12 | 0817 | LDP - Sub. Tral - City Comment #2 |
| 13 | 1013 | LDP - Pool Parking - City Comment #1 |
| 14 | 1018 | LDP - Nature Play Area Field Change |
| 15 | 1019 | Mulch on Top of Deck - Posthole Reveal |
| 16 | 1118 | LDP - Pool Parking - City Comment #2 |
| 17 | 1120 | LDP - Community Green - City Comment #2 |
| 18 | 1120 | LDP - Community Green - City Comment #2 |
| 19 | 1120 | NORTH BROADWAY DESIGN/AS-BUILT |
| 20 | 1201 | Mulch on Top of Deck - Posthole Reveal |
| 21 | 1211 | Mulch on Top of Deck - Posthole Reveal |
| 22 | 1230 | SBREC Reveal |
| 23 | 0111 | Community Green - Building Permit # |
| 24 | 0204 | SBREC Reveal |
| 25 | 0211 | NORTH BROADWAY DESIGN/AS-BUILT |
| 26 | 0303 | SBREC Reveal |
| 27 | 0413 | LDP - Community Green - City Comment #1 |
| 28 | 0415 | LDP - Hardscape - City Comment #2 |
| 29 | 0415 | LDP - Pool Parking - City Comment #1 |



CITY OF BROOKHAVEN
MURPHY CANDLEY PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

| | | |
|----------|-------|---------|
| DATE | DRAWN | CHECKED |
| 03/03/21 | GZ | MC |

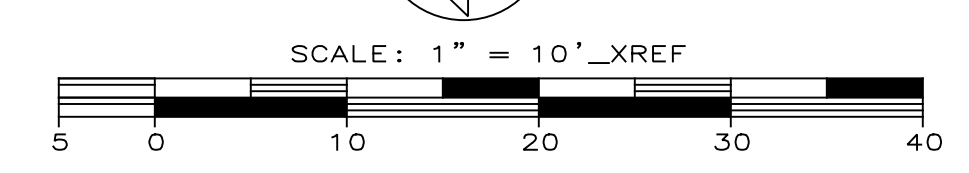
SCALE
SHEET TITLE
PLANTING PLAN
POOL PARKING

| | |
|----------------|----------|
| PROJECT NUMBER | 15092.00 |
| C9.6A1 | |
| 22 | |
| DRAWING NUMBER | |



Eliminate the 13 proposed Fragrant Tea Olive nearest the 3 Blackgum trees.
Eliminate all together OR substitute with a significantly smaller shrub. Inkberry Holly (Ilex glabra) or Pink Muhly Grass to match the parking lot material recommended.

APPROVED ARBORIST
Jeff Dadisman
Jeff Dadisman

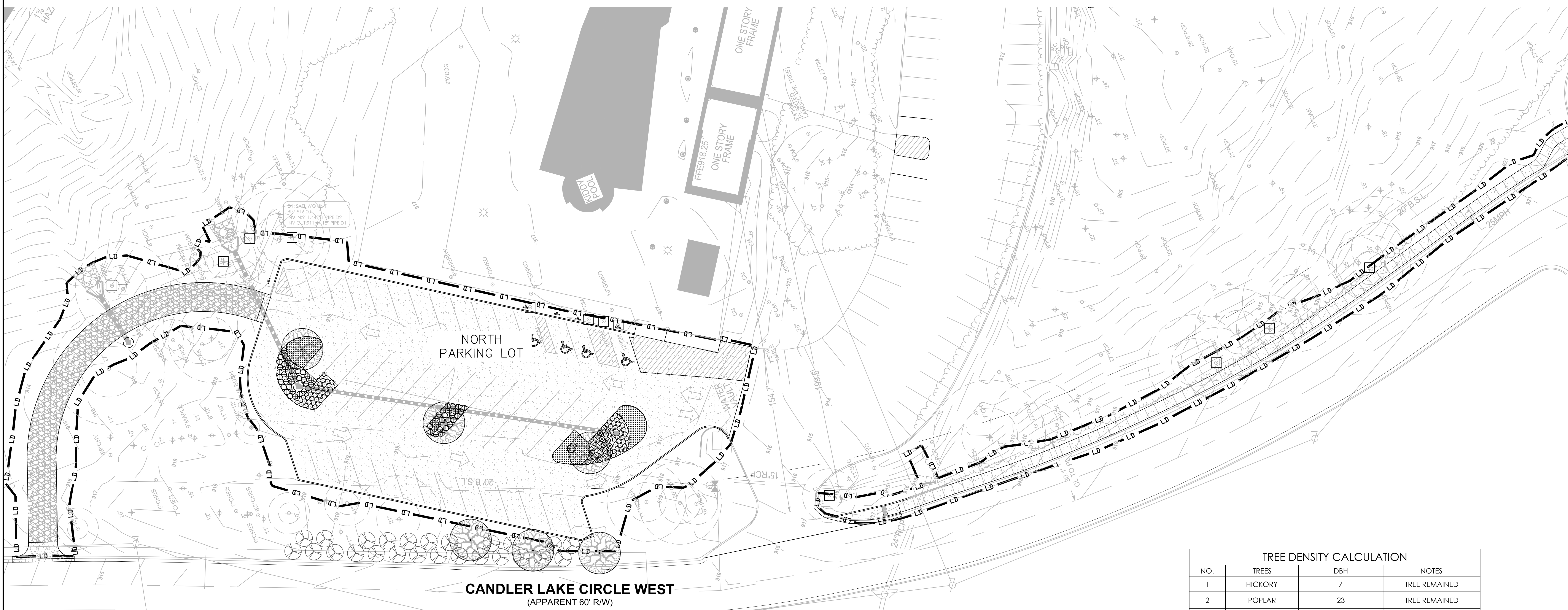
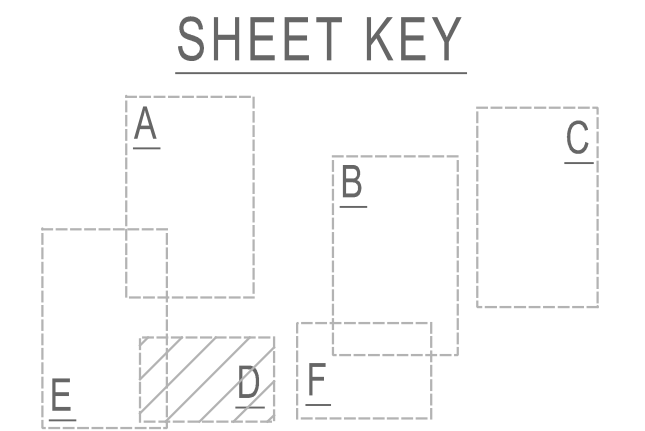


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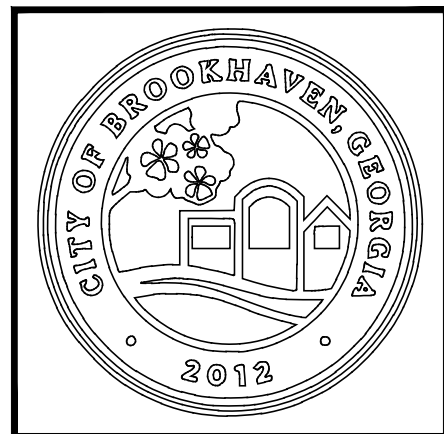


2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1306 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# LSF000810

NOTE:
THE WRESTED VEGETATION
AND BOX CONTOUR WERE
SURVEYED IN BY
TERRAMARK ON FEB. 4,
2021



ARCHITECTURE
ENGINEERING
PLANNING
CPLteam.com



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|------|---|
| 11 | 0817 | LDP - Sub. Tral. - City Comment #2 |
| 12 | 0817 | LDP - Sub. Tral. - City Comment #2 |
| 13 | 1013 | LDP - Pool Parking - City Comment #1 |
| 14 | 1018 | LDP - Nature Play Area Field Change #1 |
| 15 | 1018 | Medium Tral. in Class - Prebidal Comment #1 |
| 16 | 1118 | LDP - Pool Parking - City Comment #2 |
| 17 | 1120 | LDP - Community Green - City Comment #2 |
| 18 | 1120 | LDP - Community Green - City Comment #2 |
| 19 | 1120 | NORTH BOUNDARY DESIGN/AS-BUILT |
| 20 | 1201 | Medium Tral. in Class - Prebidal Comment #1 |
| 21 | 1211 | Medium Tral. in Class - Prebidal Comment #1 |
| 22 | 1230 | SBREC Reviewer |
| 23 | 0111 | Community Green - Building Permit #1 |
| 24 | 0204 | SBREC Reviewer |
| 25 | 0211 | COMMUNITY GREEN DESIGN/AS-BUILT UPDATE |
| 26 | 0303 | SBREC Reviewer #1 |
| 27 | 0413 | LDP - Community Green - City Comment #1 |
| 28 | 0415 | LDP - Hardscape - City Comment #2 |
| 29 | 0415 | LDP - Pool Parking - City Comment #2 |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

TREE DENSITY CALCULATION

| NO. | TREES | DBH | NOTES |
|-----|--------------|-----|---------------|
| 1 | HICKORY | 7 | TREE REMAINED |
| 2 | POPLAR | 23 | TREE REMAINED |
| 3 | PINE | 16 | TREE REMAINED |
| 4 | PINE | 18 | TREE REMAINED |
| 5 | PINE | 31 | TREE REMAINED |
| 6 | CRAPE MYRTLE | 9 | TREE REMAINED |
| 7 | CRAPE MYRTLE | 11 | TREE REMAINED |
| 8 | CRAPE MYRTLE | 10 | TREE REMAINED |
| 9 | CRAPE MYRTLE | 12 | TREE REMAINED |
| 10 | PINE | 11 | TREE REMAINED |
| 11 | SYCAMORE | 13 | TREE REMAINED |
| 12 | HICKORY | 17 | TREE REMAINED |
| 13 | PINE | 16 | TREE REMAINED |
| 14 | POPLAR | 16 | TREE REMAINED |
| 15 | TUPELO | 4X6 | NEW TREE |

TREE COUNTED TOWARDS DENSITY

TOTAL AREA: 0.87 AC; TOTAL DBH: 234

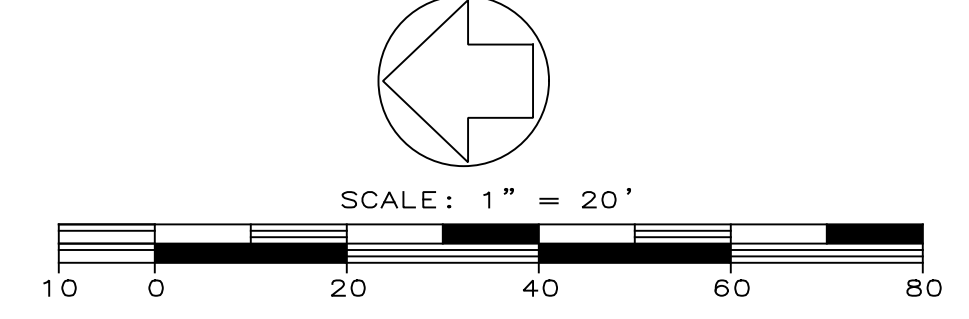
TREE DENSITY: 269 DBH/AC

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 Date last accessed: 11/6/2021 10:20 AM
 Date last plotted: 11/6/2021 10:43 AM
 Plotted by: Grace Zhong

GEORGIA811
Utilities Protection Center, Inc.
1-800-282-7411
Know what's below.
Call before you dig.

2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1396 BELLS FERRY ROAD
MARIETTA, GEORGIA 30066
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# LSF000810

NOTE:
THE WRESTED VEGETATION
AND 80% CONTOUR WERE
SURVEYED IN BY
TERRAMARK ON FEB. 4,
2021

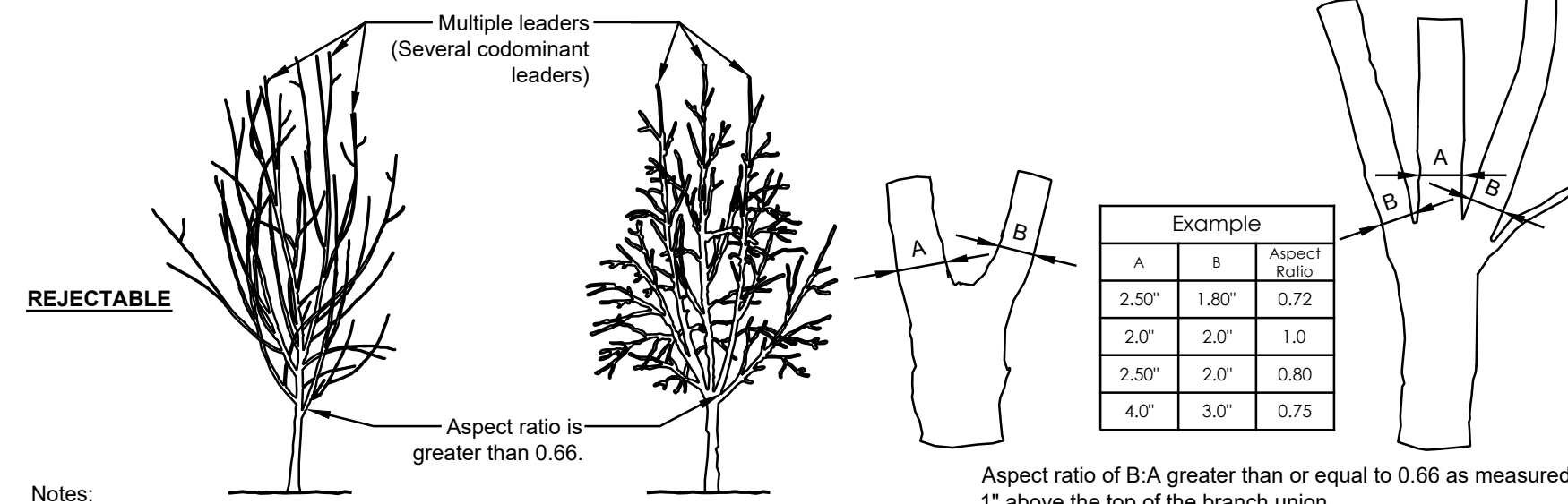
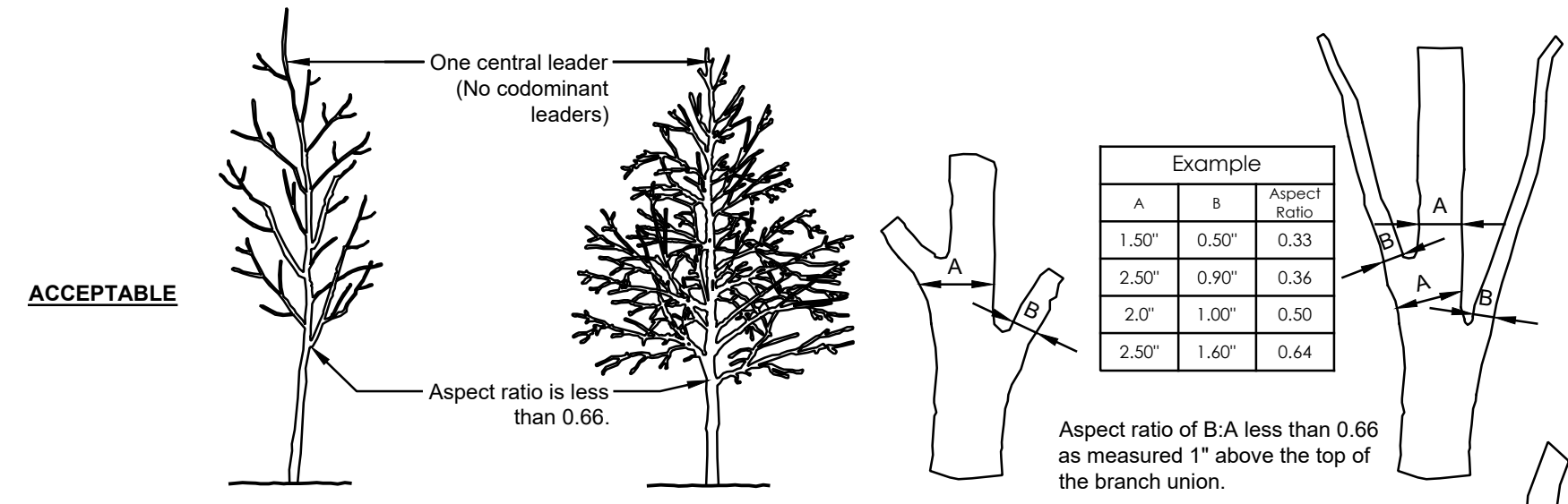


DATE: 03/03/21
SCALE: GZ
DRAWN: MC
CHECKED: MC

SHEET TITLE
**PLANTING PLAN
POOL PARKING**

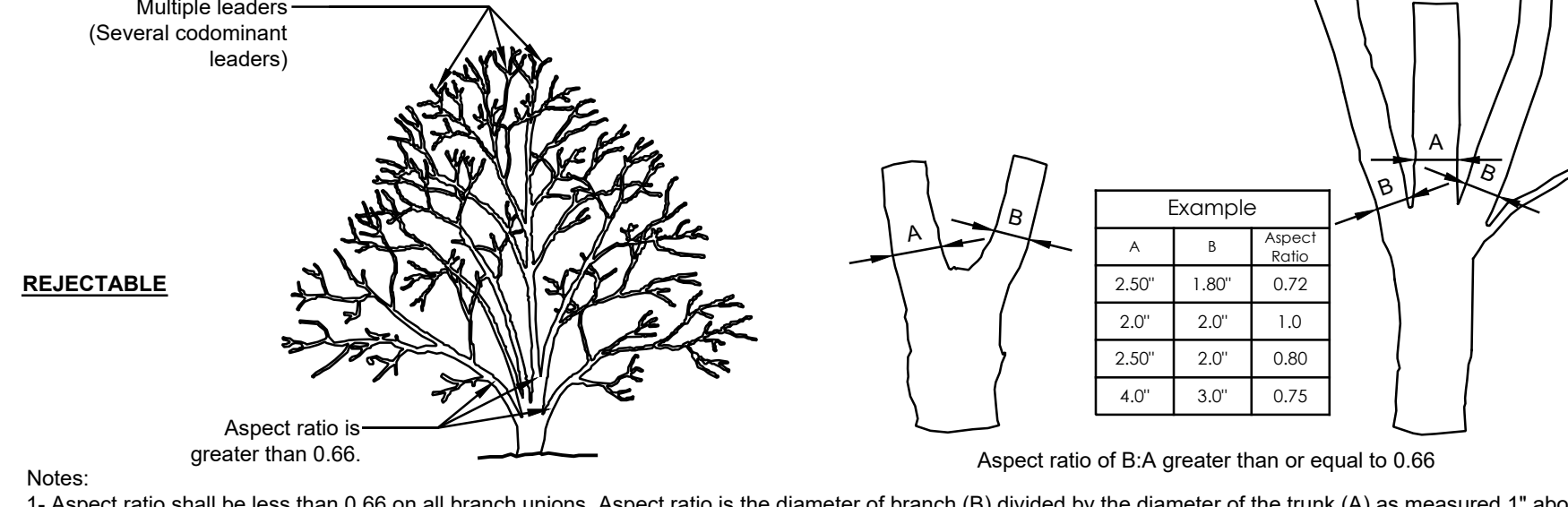
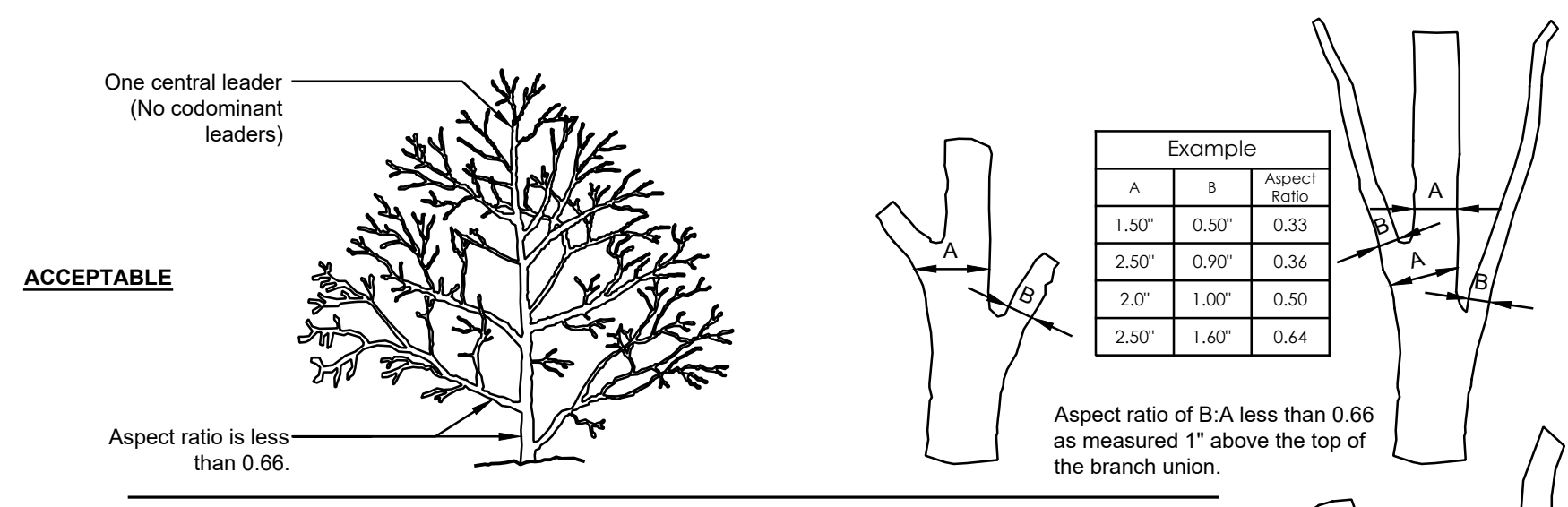
PROJECT NUMBER
15092.00
C9.6A2
23
DRAWING NUMBER

APPROVED PLAN 08/18/2021
Permit # LDP20-00020



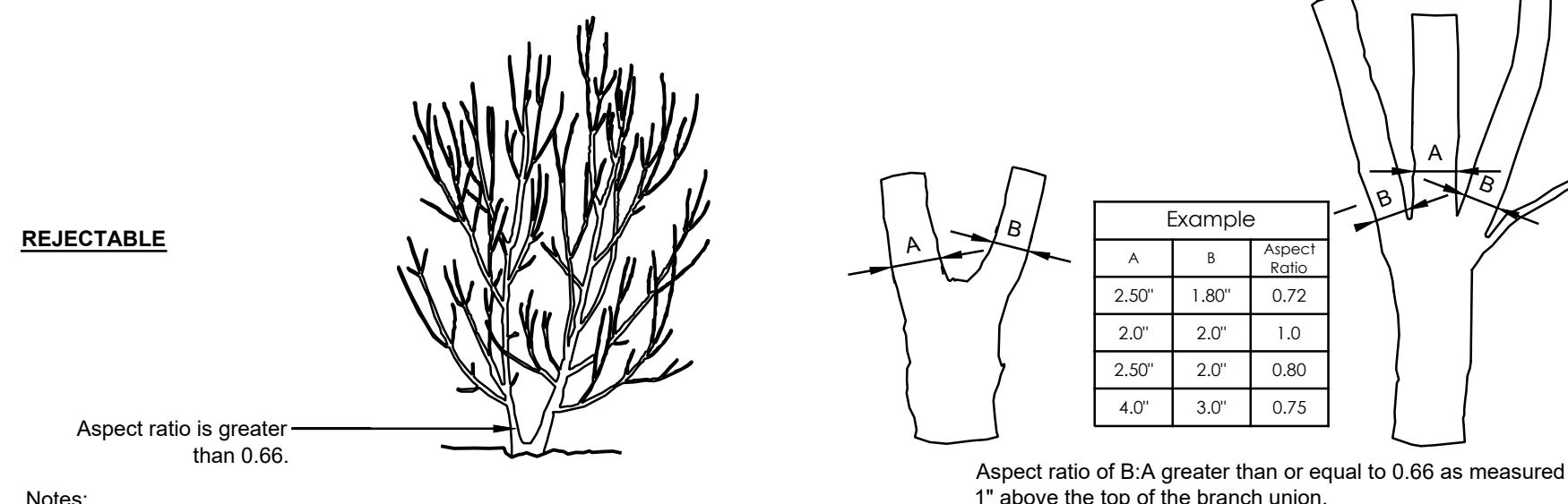
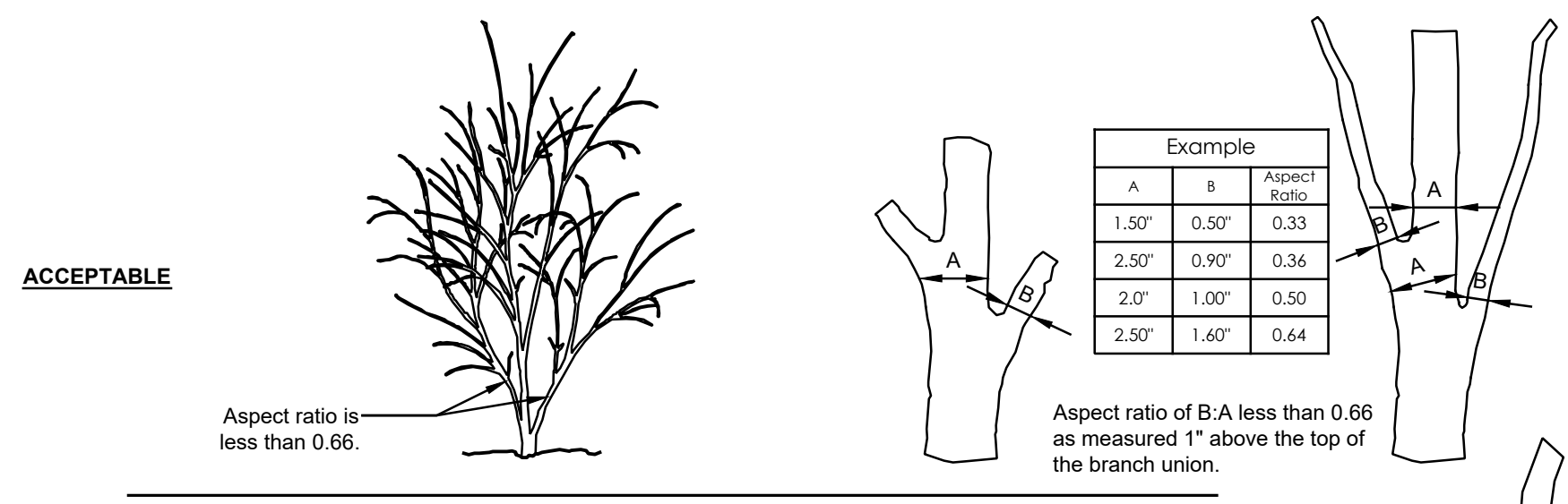
Notes:
1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
2- Any tree not meeting the crown observations detail may be rejected.

1 CROWN OBSERVATIONS - HIGH BRANCHED PLANTS
1/4" = 1'-0"



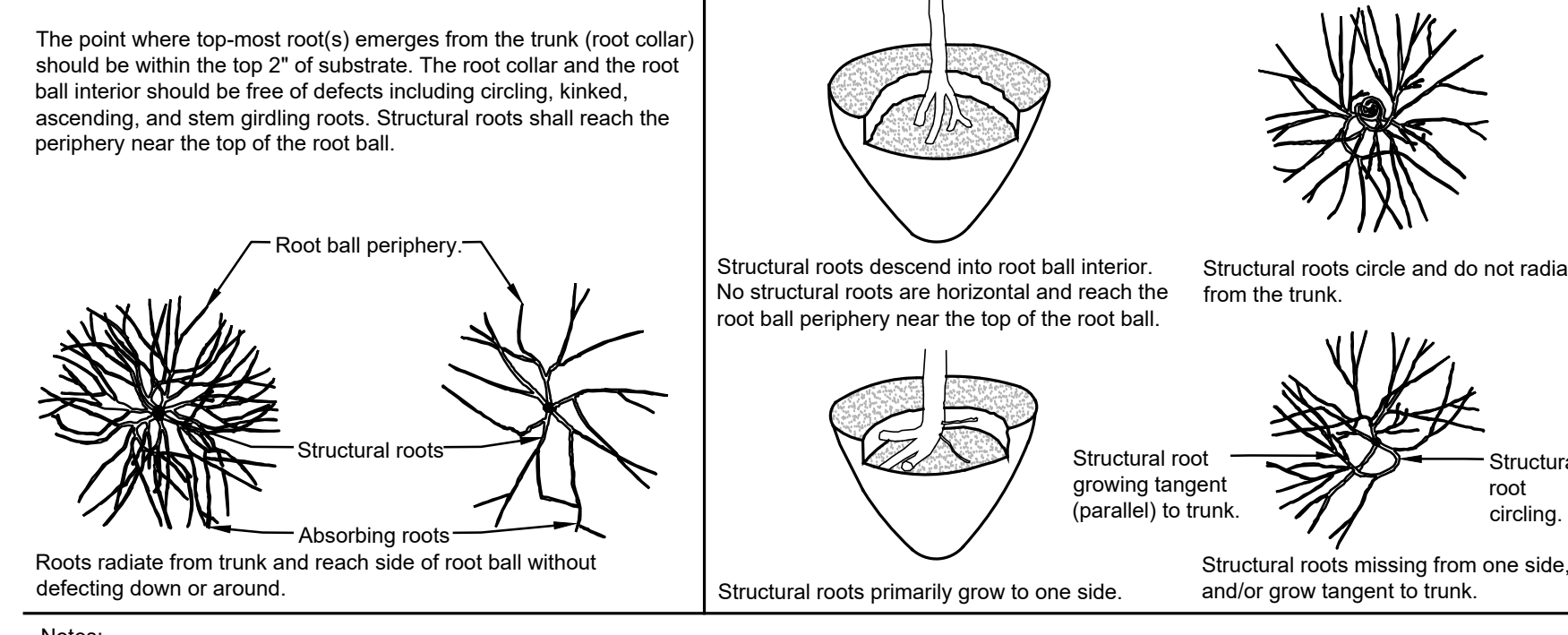
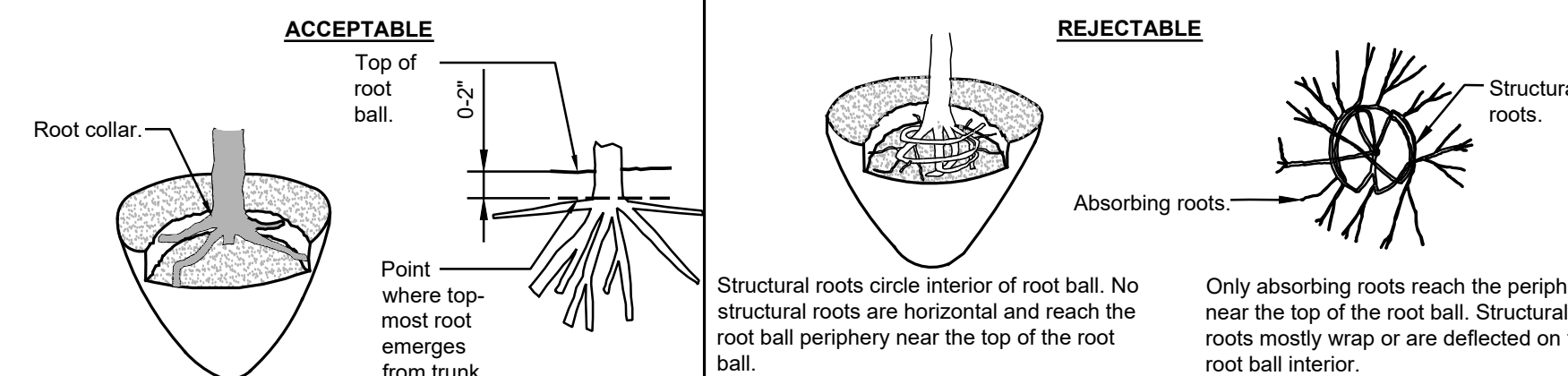
Notes:
1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
2- Any tree not meeting the crown observations detail may be rejected.

3 CROWN OBSERVATIONS - LOW BRANCHED PLANTS
1/4" = 1'-0"



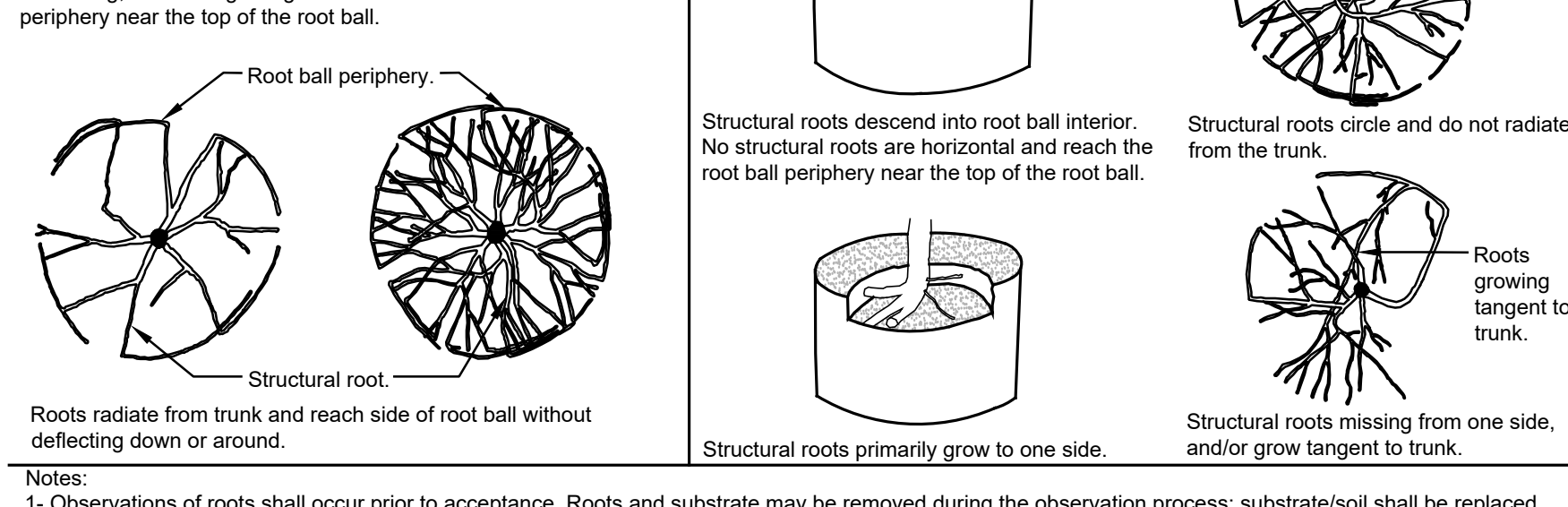
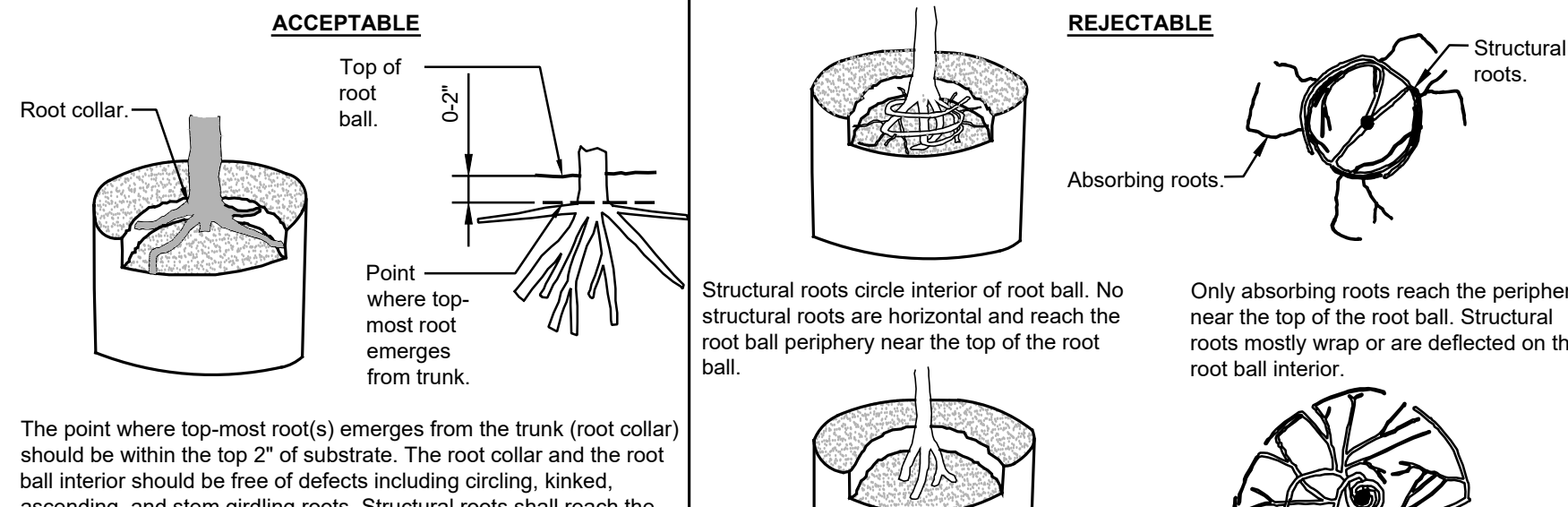
Notes:
1- Aspect ratio shall be less than 0.66 on all branch unions. Aspect ratio is the diameter of branch (B) divided by the diameter of the trunk (A) as measured 1" above the top of the branch union.
2- Any tree not meeting the crown observations detail may be rejected.

5 CROWN OBSERVATION - MULTI BRANCHED PLANTS
1/4" = 1'-0"



Notes:
1- Observations of roots shall occur prior to acceptance. Roots and soil may be removed during the observation process; substrate/soil shall be replaced after the observations have been completed.
2- See specifications for observation process and requirements.

2 ROOT OBSERVATIONS - BALLED AND BURLAPPED PLANTS
1" = 1'-0"



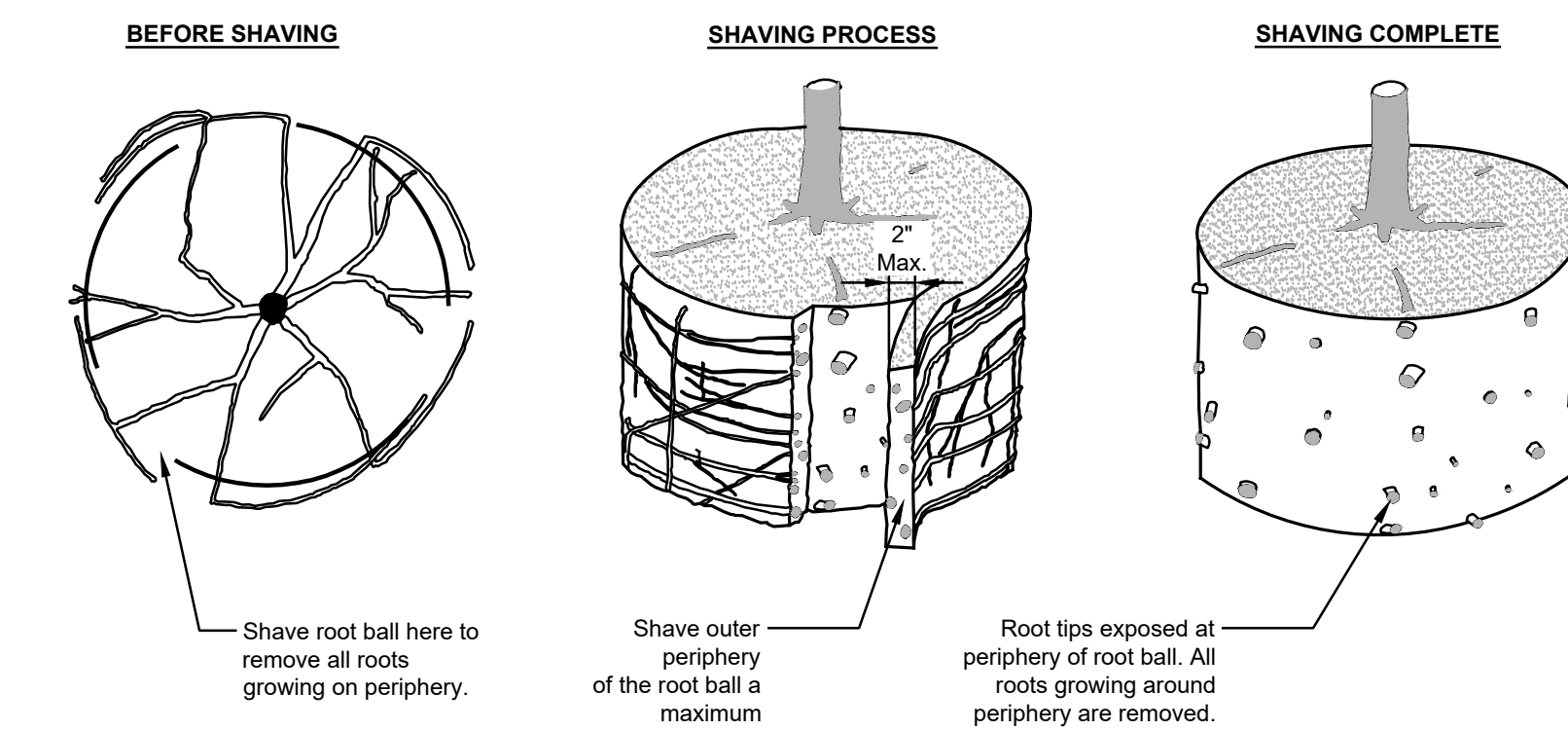
Notes:
1- Observations of roots shall occur prior to acceptance. Roots and substrate may be removed during the observation process; substrate/soil shall be replaced after observation has been completed.
2- Small roots (1/4" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting. (See root ball shaving container detail).
3- See specifications for observation process and requirements.

4 ROOT OBSERVATIONS - CONTAINER PLANTS
1" = 1'-0"

SEE LANDSCAPE NOTES SHEET

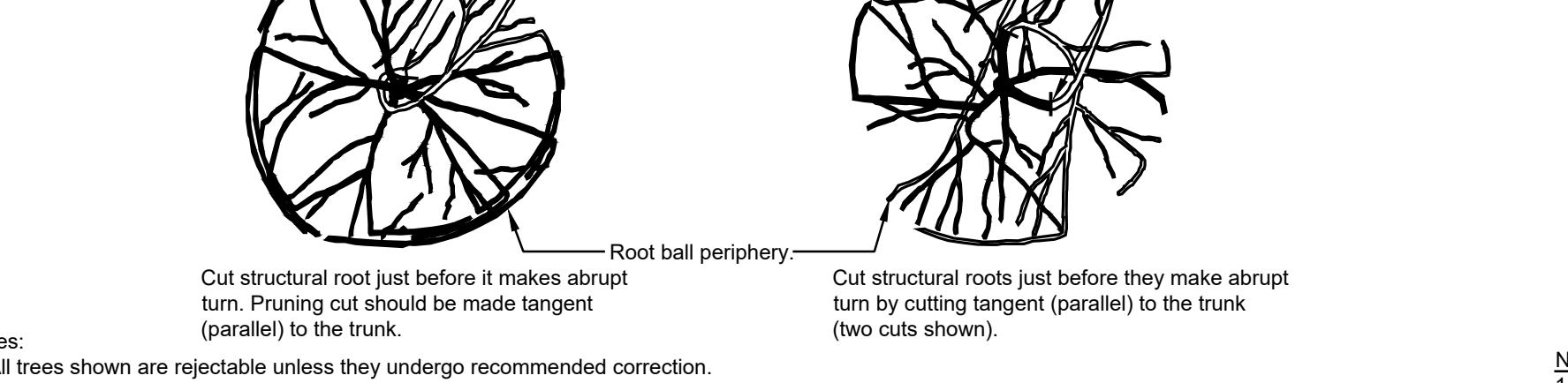
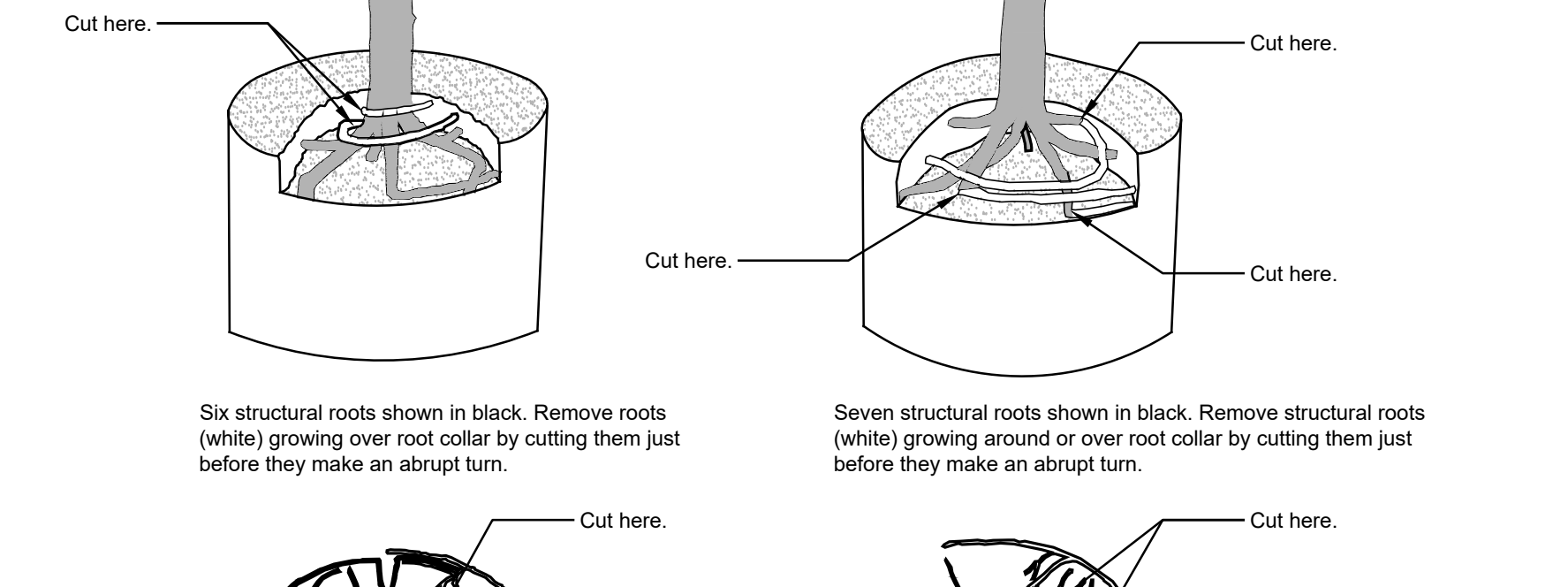
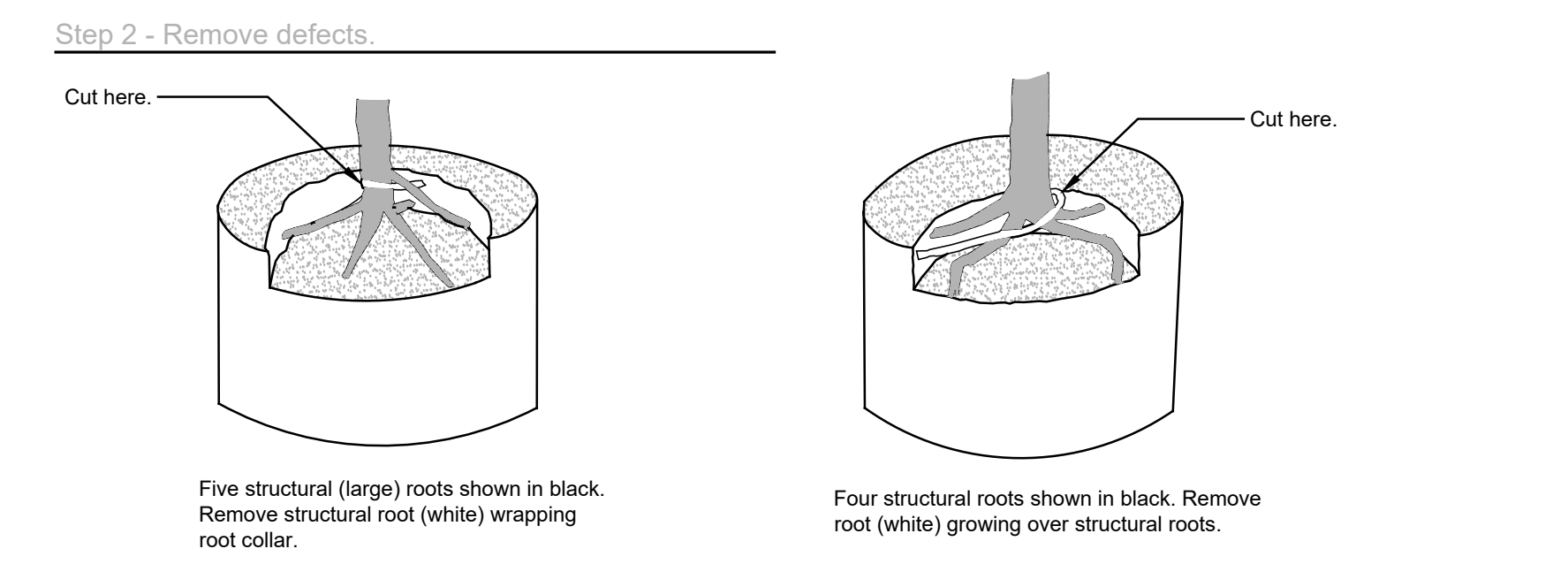
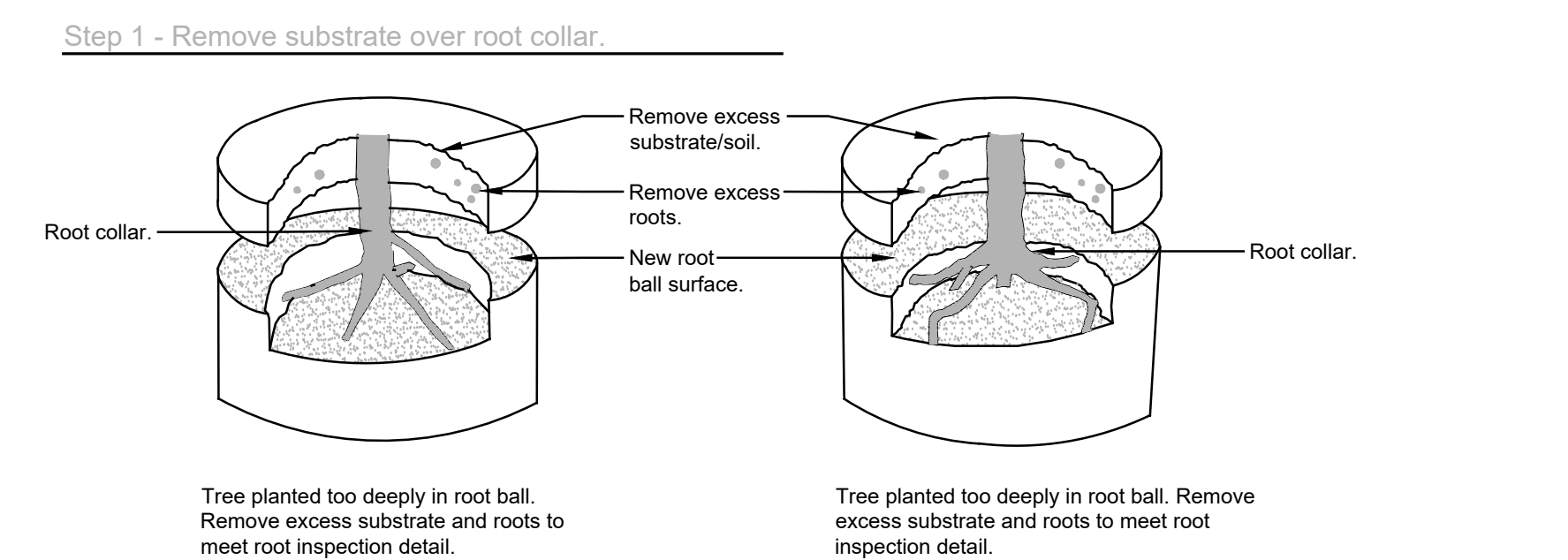
LANDSCAPE SELECTION DETAILS

1 CROWN CORRECTION DETAIL
1/2" = 1'-0"



Notes:
1- Shaving to be conducted using a sharp blade or hand saw eliminating no more than needed to remove all roots on the periphery of root ball.
2- Shaving can be performed just prior to planting or after placing in the hole.

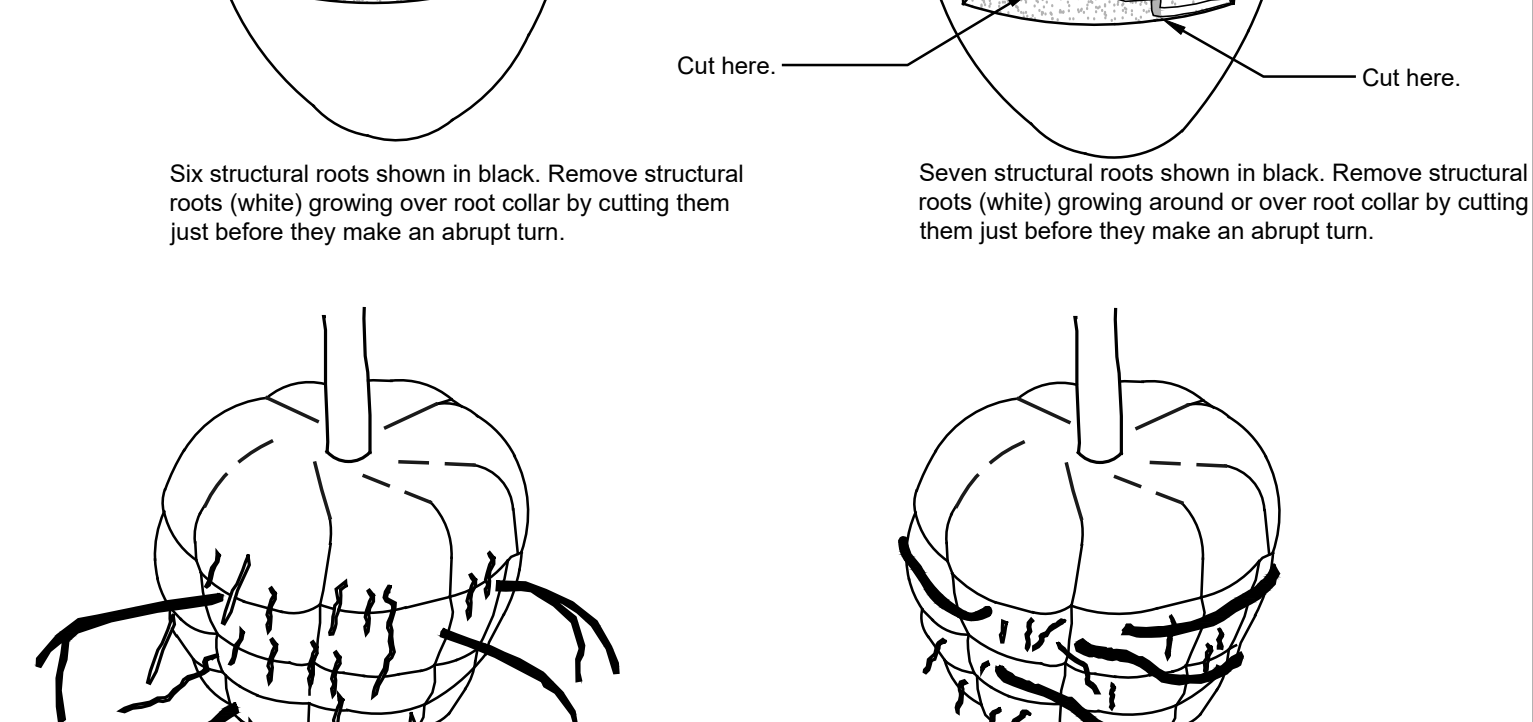
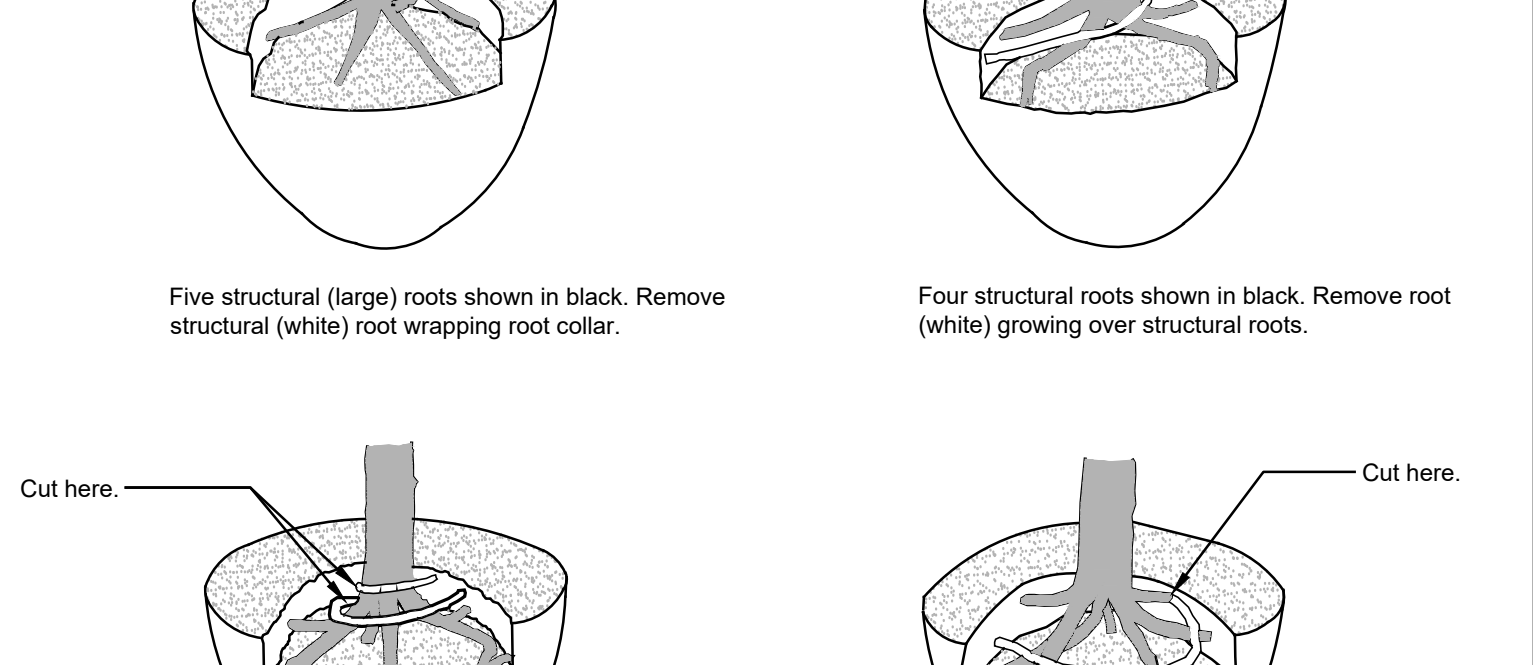
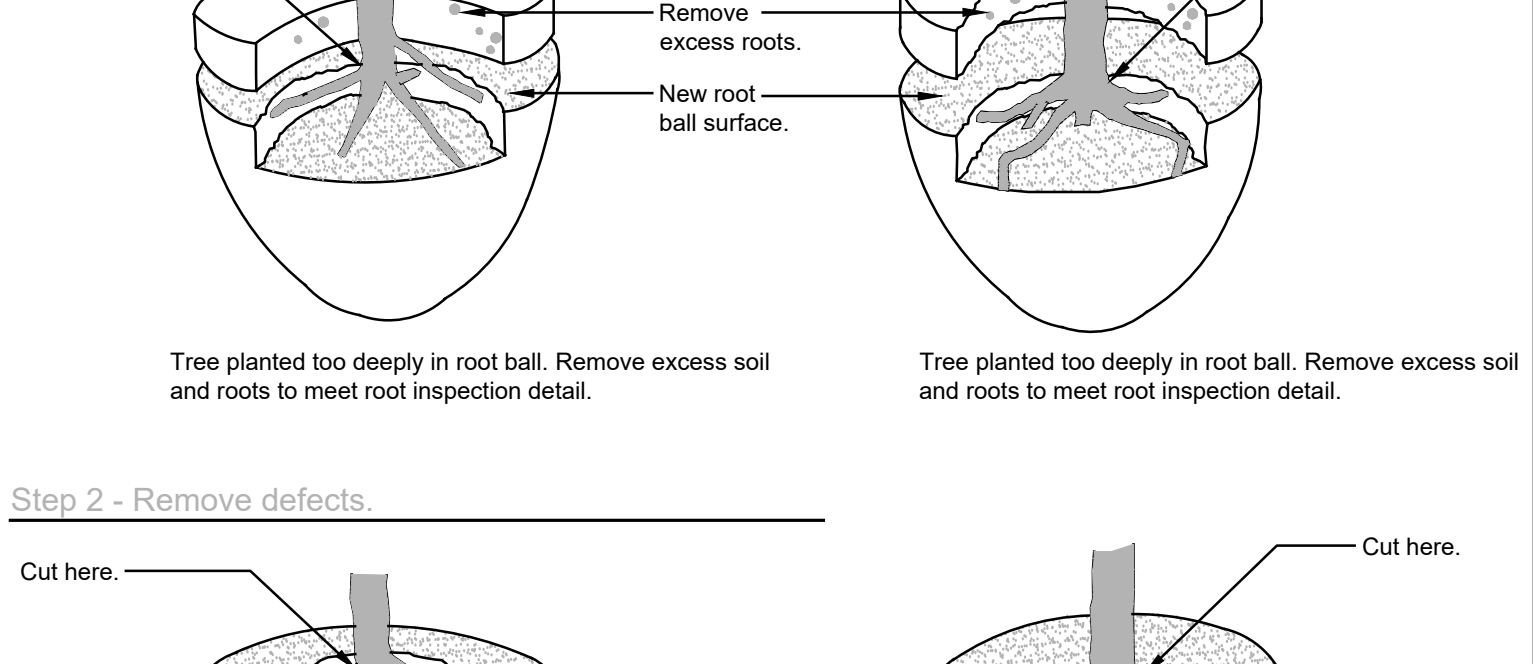
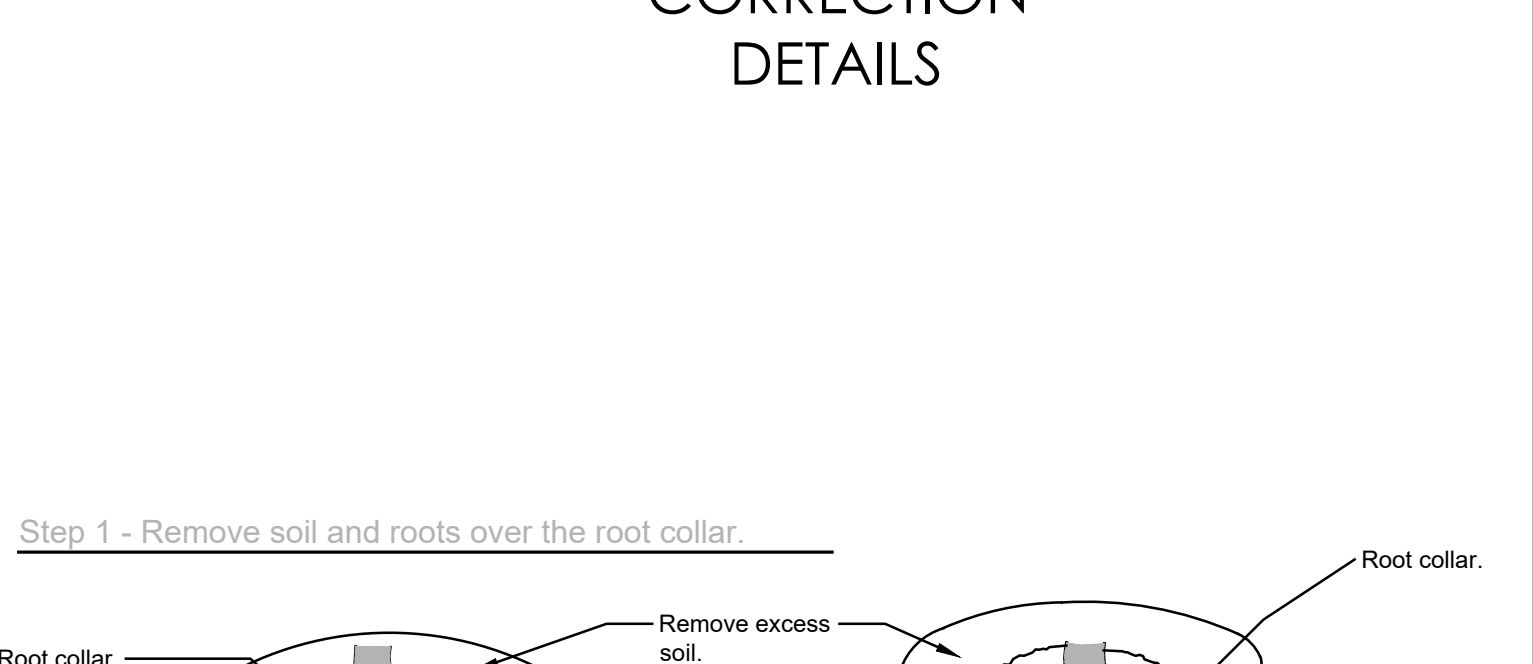
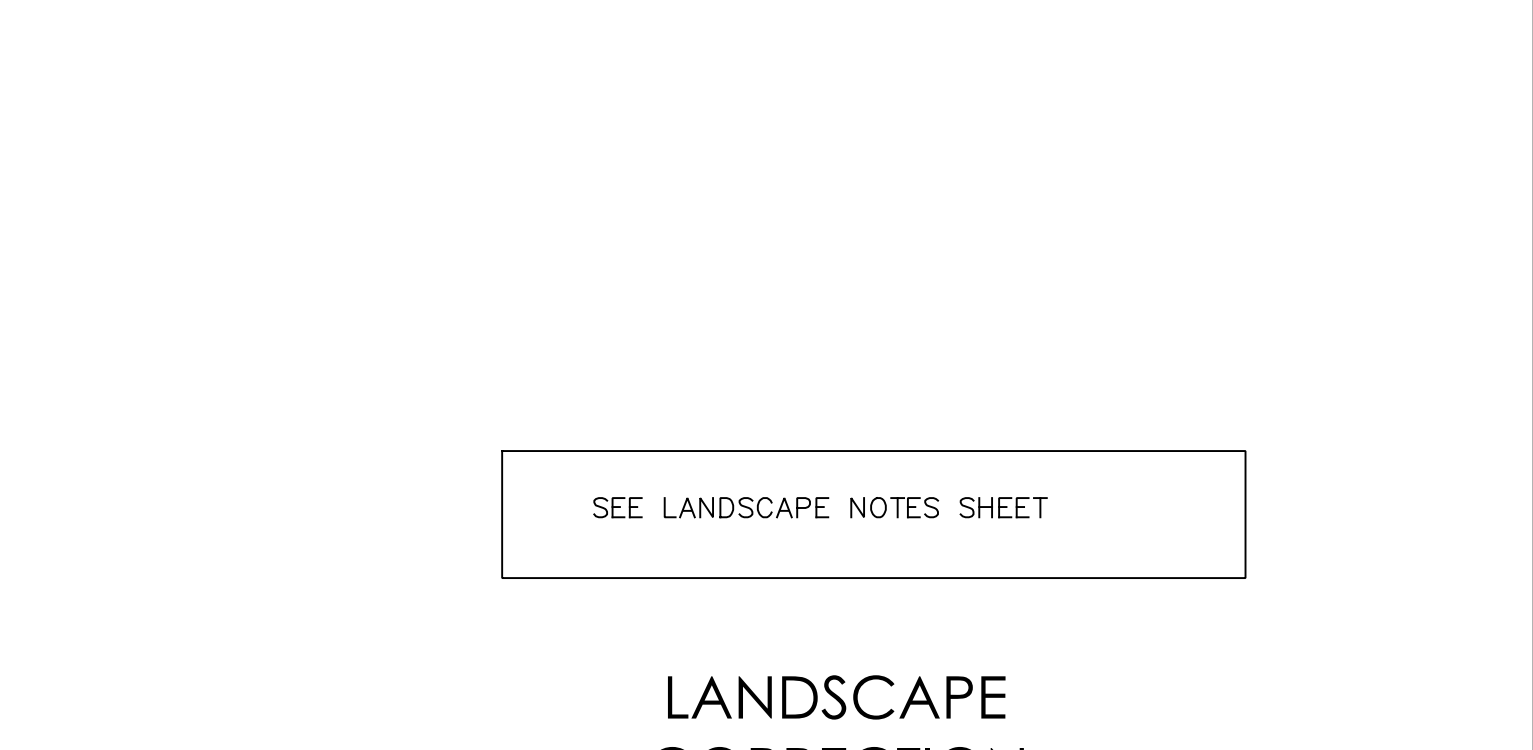
2 ROOT BALL SHAVING - CONTAINER PLANTS
3" = 1'-0"



3 ROOT CORRECTION - CONTAINER PLANTS
1 1/2" = 1'-0"

4 ROOT CORRECTION - BALLED AND BURLAPPED PLANTS
1 1/2" = 1'-0"

LANDSCAPE CORRECTION DETAILS



ROOT CORRECTION - BALLED AND BURLAPPED PLANTS
1 1/2" = 1'-0"

DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 1 | 04/20 | LDP - South Trail |
| 2 | 05/06 | State Buffer Comments - South Trail |
| 3 | 05/05 | LDP - Natural Play Area |
| 4 | 05/07 | LDP - South Trail - City Comment #1 |
| 5 | 05/28 | LDP - Natural Play Area - City Comment #1 |
| 6 | 05/28 | LDP - Natural Play Area - City Comment #2 |
| 7 | 06/30 | LDP - Horseshoe Road |
| 8 | 07/07 | LDP - Community Green |
| 9 | 07/10 | LDP - Food Parking |
| 10 | 08/17 | LDP - Community Green - City Comment #1 |
| 11 | 08/17 | LDP - South Trail - City Comment #2 |
| 12 | 09/17 | LDP - South Trail - City Comment #3 |
| 13 | 10/13 | LDP - Food Parking - City Comment #1 |
| 14 | 10/15 | LDP - Natural Play Area - City Comment #1 |
| 15 | 10/19 | SDP - Multi-use Trail on Darts |
| 16 | 11/09 | North Boardwalk Design-Build |
| 17 | 11/18 | LDP - Food Parking - City Comment #2 |

| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 04/23/20 | BM | GZ |

SCALE
SHEET TITLE
PLANTING DETAILS

| |
|----------------------------|
| PROJECT NUMBER 15092.00 |
| C9.6B |
| 24 |
| DRAWING NUMBER |

GENERAL:

- BEFORE BEGINNING ANY WORK, ALL UTILITIES AND UNDERGROUND CONSTRUCTION SHALL BE LOCATED BY THE LANDSCAPE CONTRACTOR SO THAT PROPER PRECAUTIONS MAY BE TAKEN NOT TO DISTURB OR DAMAGE ANY SUBSURFACE IMPROVEMENTS. WHEN PUBLIC UTILITIES ARE PRESENT, THE LANDSCAPE CONTRACTOR SHALL REQUEST ON-SITE LOCATIONS BY ALL UTILITY COMPANIES AND CONFIRM THAT SUCH LOCATIONS HAVE BEEN COMPLETED. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MAKING, AT HIS OWN EXPENSE, ALL REPAIRS TO DAMAGED UTILITIES RESULTING FROM WORK COVERED BY THIS CONTRACT.
- THE CONTRACTOR'S PRICE SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE WORK, INCLUDING BUT NOT LIMITED TO, MULCH, PLANTING MATERIAL, SOIL MIX, STAKING MATERIAL, WATERING, MAINTENANCE DURING CONSTRUCTION, GROUND CULTIVATION TO A MINIMUM DEPTH OF 6 INCHES OR AS INDICATED ON PLANS FOR PLANTING BEDS AND SOD AREAS, ETC.
- GROUND CULTIVATION INCLUDES SCALPING AND REMOVING EXISTING VEGETATION DOWN TO THE SUB-GRADE, ROTOTILL 3 INCHES OF ADDITIVES SUCH AS TOP SOIL, SAND OR COMPOST (PER SOIL TEST ANALYSIS INTO THE SUBGRADE TO BREAK THROUGH AND REMOVE ALL HARDPAN, ROCKS AND DEBRIS. THIS WILL ALLOW PERCOLATION AND POSITIVE DRAINAGE. IF A ROTOTILLER IS NOT SUFFICIENT TO BREAK UP THE SUBGRADE, THE CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL EQUIPMENT NEEDED TO COMPLETE THE WORK AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL PROVIDE INVOICES OF ALL PLANT MATERIAL TO OWNER AND LANDSCAPE ARCHITECT DURING CONSTRUCTION.
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES TO PREVENT AND MINIMIZE EROSION AND SEDIMENTATION. BMPs SHALL BE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION.
- IN CONFORMANCE WITH GDOT STANDARD SPECIFICATIONS, PLANT INSTALLATION SHALL OCCUR BETWEEN THE DATES OF OCTOBER 15 AND MARCH.
- THE LANDSCAPE CONTRACTOR SHALL IMPLEMENT ALL MEASURES REQUIRED BY THE CITY OF BROOKHAVEN AND DEKALB COUNTY.
- THE LANDSCAPE CONTRACTOR SHALL TAKE MEASURES TO PREVENT DUST, MUD, EQUIPMENT MARKS, ETC FROM SOILING AND DAMAGING IMPROVEMENTS. ANY DAMAGE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MATERIAL QUANTITIES SHOWN ON THESE DRAWINGS BEFORE PRICING THE WORK, AND WILL BE RESPONSIBLE FOR INSTALLATION OF PLANT MATERIAL ACCORDING TO PLANS. THE PLANT SCHEDULE IS PROVIDED FOR CONTRACTOR'S CONVENIENCE ONLY.
- PROVIDE PLANT MATERIALS TRUE TO SPECIES AND VARIETY COMPLYING WITH RECOMMENDATIONS OF "AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERY MEN.
- PLANTING PLANS INDICATE DIAGRAMMATIC LOCATIONS ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO DESIGN PROFESSIONAL OR OWNER'S REPRESENTATIVE APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER. STAKE PLANT LOCATIONS AT SITE AND OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO PLANT INSTALLATION.

ELIMINATION OF EXISTING VEGETATION AND REPLACEMENT WITH PROPOSED VEGETATION:

- THIS PROJECT MAY REQUIRE THE ELIMINATION OF EXISTING VEGETATION IN ORDER TO INSTALL LANDSCAPING AS SHOWN ON PLANS. EXISTING VEGETATION CONSISTS OF VARIOUS TURF GRASSES AND WEEDS. IF SO, THE CONTRACTOR SHALL ELIMINATE EXISTING VEGETATION BY SPRAYING WITH 2 SEPARATE APPLICATIONS OF ROUNDUP HERBICIDE (GLYPHOSATE), OR APPROVED EQUAL PER MANUFACTURERS RECOMMENDATIONS. THE FIRST HERBICIDE APPLICATION SHALL OCCUR ON THE ENTIRE PROJECT AREA AFTER WINTER DORMANCY WHEN THERE IS SIGNIFICANT ACTIVE GROWTH OF GRASSES AND WEEDS. THE OPTIMAL TIME FOR THIS HERBICIDE APPLICATION IS THE FIRST WEEK IN APRIL. THE SECOND APPLICATION SHALL OCCUR ON ALL PROPOSED REVEGETATED AREAS WHEN THERE IS SIGNIFICANT ACTIVE GROWTH AFTER THE FIRST HERBICIDE APPLICATION. THE SECOND APPLICATION SHALL OCCUR AT LEAST 4 WEEKS (28 DAYS) AFTER THE FIRST APPLICATION. BOTH SPRAYINGS SHALL OCCUR ON ALL LANDSCAPE MEDIAN AREAS. SUBSEQUENT INSTALLATION WORK SHALL BE DIVIDED INTO PHASES AS DELINEATED ON THE PLANS.
- CONTRACTOR SHALL COMMENCE EACH PHASE BY SCALPING (MOWING AS CLOSELY TO THE ROUND AS POSSIBLE) ALL EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE FOR THAT PHASE. THE CONTRACTOR SHALL NOT SCALP UNTIL AT LEAST 10 DAYS HAVE PASSED FOLLOWING THE FINAL HERBICIDE APPLICATION. PLANTING OPERATIONS SHALL OCCUR IMMEDIATELY FOLLOWING THE SCALPING OF THE EXISTING VEGETATION. THE CONTRACTOR SHALL COMPLETE ALL WORK ON A PHASE AND SHALL HAVE THAT WORK INSPECTED AND APPROVED BY AN AUTHORIZED REPRESENTATIVE OF THE CITY OF BROOKHAVEN PRIOR TO COMMENCING WORK ON ANY OTHER PHASE.

NURSERY STOCK SELECTION:

- PLANTS SHALL BE WATERED PRIOR TO TRANSPORTATION AND SHALL BE KEPT MOIST UNTIL PLANTED. ALL PLANTS SHALL BE PROTECTED FROM DESICCATION DURING DELIVERY WITH A PROTECTIVE COVERING OR ENCLOSED TRUCK.
- PLANTS SHALL BE SPECIMEN QUALITY, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF DISEASES, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS AND/OR DISFIGUREMENT.
- HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM BRANCH TIP TO TIP. IF A PERCENT OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND NOT LESS THAN 50 PERCENT OF THE PLANTS SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.
- HARDWOOD TREES SHALL HAVE STRAIGHT TRUNKS WITH CENTRAL LEADERS. DO NOT HANDLE PLANTS BY THE TRUNK.
- PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- ALL NEWLY PLANTED TREES SHALL HAVE VISIBLE ROOT FLARES AT FINISHED GRADE. NO CIRCLING ROOTS SHALL BE ALLOWED ON PLANTED TREES. THE UPPER TWO RINGS OF THE WIRE BASKET, ALL BURLAP, AND STRAPPINGS MUST BE CUT AND REMOVED PRIOR TO BACKFILL.
- TREES LESS THAN THE CALIPER INCH SHOWN ON THE PLANS WILL NOT BE ACCEPTED.
- PLANT HEIGHT MEASUREMENT IS TAKEN AT THE TOP OF THE MAIN BODY OF THE PLANT AND NOT AT THE TIP OF THE TOP MOST GROWTH.
- SEE CROWN AND ROOT OBSERVATIONS DETAILS ON LANDSCAPE DETAILS SHEETS.

PLANTING SOIL MIX:

- CONTRACTOR SHALL SUPPLY TOP SOIL AND PLANTING SOIL MIX.
 - THE CONTRACTOR SHALL SUPPLY A SOIL REPORT THROUGH THE LOCAL EXTENSION SERVICE OF EXISTING SOILS TO SHOW RECOMMENDED AMENDMENTS.
 - THE CONTRACTOR SHALL SUPPLY A SECOND SOIL REPORT OF PROPOSED SOIL MIX WHICH SHALL MEET THE RECOMMENDATIONS IN THE FIRST SOIL REPORT.
 - EXISTING AND PROPOSED SOIL REPORTS MUST BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ANY BACKFILLING.
 - THE PROPOSED PLANTING SOIL MIX MUST BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ANY BACKFILLING.
- ALLOWANCES:**
- THE PLANTING SOIL MIX FOR ON-GRADE PLANTINGS (TREES, SHRUBS & GROUND COVERS) SHALL CONSIST OF THE FOLLOWING:
 - 80% SANDY LOAM TOPSOIL (AS SPECIFIED AND AMENDED PER SOIL REPORT)
 - 20% PREPARED ADDITIVES SHALL BE PER SOIL REPORT OR BY VOLUME AS FOLLOWS:
 - 2 PARTS HUMUS AND/OR PEAT
 - 1 PART STERILIZED COMPOSTED COW MANURE
 - 1 PART SHREDDED, COMPOSTED HARDWOOD MULCH
 - PLANTING SOIL MIX FOR PERENNIAL BEDS CONSIST OF THE FOLLOWING:
 - 70% SANDY LOAM TOPSOIL (AS SPECIFIED AND AMENDED PER SOIL REPORT)
 - 30% PREPARED ADDITIVES SHALL BE PER SOIL REPORT OR BY VOLUME AS FOLLOWS:
 - 2 PARTS SHREDDED, COMPOSTED HARDWOOD MULCH
 - 1 PART (50% STERILIZED COMPOSTED COW MANURE AND 50% ANGULAR BUILDERS SAND)
 - GYPSUM, LIME AND COMMERCIAL FERTILIZER SHALL ONLY BE USED AS PRESCRIBED IN THE SOIL REPORT.
- 9. ALLOWANCES SUBJECT TO CHANGE BASED ON SOIL REPORT.**

WATERING/IRRIGATION:

- WATERING AFTER INSTALLATION AND WATER TRANSPORTATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- USE OF TREE CAMEL, OZZE TUBES OR TREE GATOR BAGS FOR TREES ARE ACCEPTABLE.
- MULCH SHOULD BE INSPECTED EVERY 3 MONTHS TO ENSURE A DEPTH OF 4-INCHES AND REPLENISHED WHERE NECESSARY.
- THE CONTRACTOR SHALL INSTALL A TEMPORARY IRRIGATION SYSTEM IN ORDER TO ESTABLISH INSTALLED PLANT MATERIAL. SUBMIT A PLAN FOR A TEMPORARY SYSTEM TO THE OWNERS REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION, AND OBTAIN APPROVAL AS WARRANTED BY ALL GOVERNING AGENCIES HAVE JURISDICTION. THE SYSTEM SHALL BE DESIGNED TO PROVIDE FULL AND COMPLETE COVERAGE TO ALL LANDSCAPED AREAS OF THE SITE INDICATED ON THE LANDSCAPE PLAN.
- ALL MATERIALS USED IN THE DESIGN OF THE TEMPORARY SYSTEM, INCLUDING SPRINKLER HEADS, VALVES, VALVE BOXES, CONTROLLERS, PUMPS, BACKFLOW PREVENTORS, RAIN AND FREEZE SENSORS, SENSORS, WIRE, ELECTRICAL CONNECTIONS, AND PVC PIPE AND FITTINGS, SHALL MEET MINIMUM INDUSTRY STANDARDS. MANUFACTURER AND MODEL MUST BE SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY SYSTEM AFTER SUBSTANTIAL COMPLETION IS OBTAINED.
- IF NO TEMPORARY SYSTEM IS PROPOSED, THE CONTRACTOR SHALL DEVELOP A SCHEDULE FOR MANUAL WATERING OF PLANTS THIS SCHEDULE SHOULD BE INCLUDED IN ANY MAINTENANCE AGREEMENT AND/OR BONDING OF LANDSCAPE MATERIAL AND SHOULD INDICATE THE PARTY RESPONSIBLE FOR PERFORMING THE MANUAL WATERING. THE DURATION OF THE SCHEDULE OF MANUAL WATERING SHOULD BE EQUAL TO THE DURATION OF THE BOND PERIOD OR 12 MONTHS STARTING FROM THE INSTALLATION DATE, WHICHEVER IS GREATER. THE SCHEDULE SHOULD ALSO INDICATE THE AMOUNT OF WATER TO BE APPLIED PER WEEK. THE FOLLOWING IRRIGATION RATES ARE OFFERED AS A GUIDELINE; HOWEVER, THE SUPPLIER OF THE LANDSCAPE MATERIAL SHOULD BE CONSULTED FOR THEIR RECOMMENDATIONS.

TREES: SHOULD BE WATERED DAILY FOR MONTH 1, EVERY OTHER DAY FOR MONTHS 2-4, AND WEEKLY FOR MONTHS 5-12. APPLY 1 GALLON PER 4" CALIPER TREE. PRIOR APPLICATION, ADJUST RATE TO LOCAL RAINFALL AMOUNT. (ASSUME 30 GALLONS PER TREE FOR EVERY INCH OF RAINFALL).

SHRUBS: SHOULD BE WATERED DAILY FOR MONTH 1, EVERY OTHER DAY FOR MONTHS 2-4, AND WEEKLY FOR MONTHS 5-12. APPLY 1 GALLON PER SHRUB PER APPLICATION, ADJUST RATE TO LOCAL RAINFALL AMOUNT. (ASSUME 2 GALLONS PER SHRUB FOR EVERY INCH OF RAINFALL).

TURF: SHOULD RECEIVE 1-INCH OF IRRIGATION PER WEEK APRIL THROUGH SEPTEMBER, 1 1/2-INCH OF IRRIGATION OCTOBER THROUGH MARCH. ADJUST RATE TO LOCAL RAINFALL AMOUNT.

NATIVE GRASS BEDS: WATER EVERY OTHER DAY FOR THE FIRST MONTH, ONLY CONTINUE WATERING AFTER THAT ONLY DURING EXTENDED OR FORECASTED DRY PERIODS, AND THEN, ONLY ONCE PER WEEK.

SOD:

- GROUND TO BE CULTIVATED AS INDICATED TO A MINIMUM DEPTH OF 6 INCHES PRIOR TO SOD INSTALLATION. IN AREAS TO RECEIVE SOD ONLY, CONTRACTOR SHALL REMOVE THE SCALPED CLIPPINGS EITHER DURING SCALPING OR AFTER THE EXISTING GRASS IS SCALPED. CONTRACTOR SHALL ADD PELLETIZED LIME TO THESE AREAS AT A RATE OF 220 LBS/ACRE (5 LBS/1,000 SF). CONTRACTOR SHALL THEN AERATE THE AREAS WITH A CORE AERATOR. IMMEDIATELY PRIOR TO SOD INSTALLATION, CONTRACTOR SHALL RAKE THE SOIL (EITHER MANUALLY OR USING A POWER RAKE) TO A DEPTH OF 1". MIXING THE PREVIOUSLY ADDED LIME INTO THE EXISTING SOIL AND BREAKING UP CORES. CONTRACTOR SHALL ONLY RAKE THE AREAS WHICH ARE TO BE SODDED THAT DAY.
- SOD SHALL BE STRONGLY ROOTED, 2 YEAR OLD STOCK. THE SOD SHALL BE TOP QUALITY CERTIFIED SOD, FREE OF WEEDS, UNDESIRABLE NATIVE GRASSES, INSECTS AND DISEASES, AND UNIFORM IN THICKNESS. PROVIDE CERTIFICATION TAG TO OWNER. ALL SOD SHALL BE MACHINE CUT AND VIGOROUSLY GROWING (NOT DORMANT)
- LAY SOD WITHIN 24 HOURS FROM TIME OF STRIPPING. DO NOT PLANT DORMANT SOD OR IF GROUND IS FROZEN.
- LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS, DO NOT OVERLAP.
- IN SLOPING AREAS, SOD SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOURS AND WITH JOINTS STAGGERED.
- SOD SHALL BE SECURED IN-PLACE WITH STAPLES ON SLOPES GREATER THAN 3:1.
- STAPLES FOR SOD STAKING SHALL BE NO. 11 GAUGE STEEL WIRE, U-SHAPED WITH LEGS 12 INCHES IN LENGTH AND 1" CROWN. STAPLES SHALL BE PLACED AT INTERVALS NO GREATER THAN 2' ON CENTER. TOP OF STAPLES SHALL BE DRIVEN FLUSH WITH SOD AS NOT TO INTERFERE WITH MOWING OPERATIONS.
- TAMP OR ROLL TO INSURE CONTACT WITH SOIL. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD. REMOVE EXCESS SOIL TO AVOID SMOOTHING OF ADJACENT GRASS.
- CONTRACTOR SHALL REMOVE NETTING FROM THE BACK OF SOD PRIOR TO INSTALLATION.
- SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING.



APPROVED ARBORIST

Jeff Dadisman

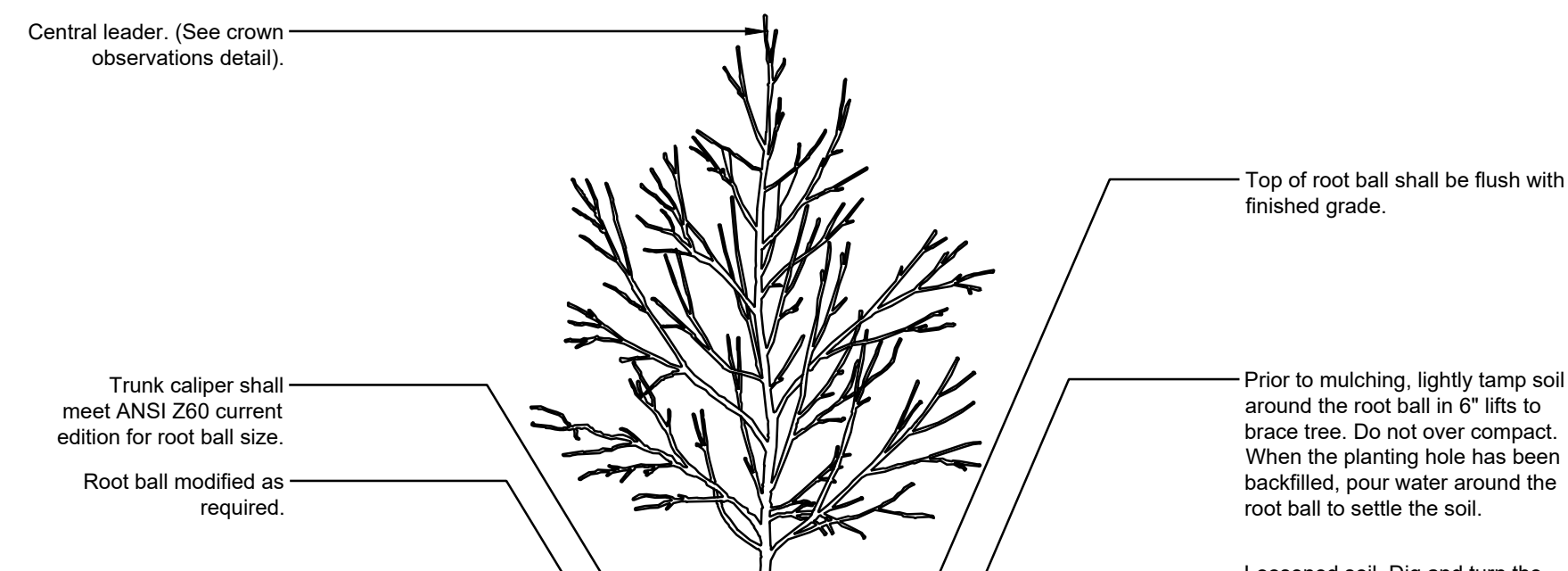
Jeff Dadisman

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 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000810



INSTALLATION:

- INSTALL TREES PLUMB. DO NOT DEPEND ON STAKING TO PULL PLANTS TO PLUMB POSITION.
 - MULCH: PROVIDE 4" THICKNESS MULCH AT ALL PLANTS AND PLANTING BEDS. UTILIZE SHREDDED, AGED HARDWOOD MULCH.
 - LEAVES: MUST BE OF MEDIUM FOLIAGE, ALL GOOD LEAVES, MAXIMUM OF 10% CHLOROSIS ALLOWED, WITH NO EXTREME SUCCESSIONE.
 - IF DRAINAGE IS NOT SUFFICIENT NOTIFY PROJECT OWNER'S REPRESENTATIVE IN WRITING BEFORE INSTALLING THE PLANTS. OTHERWISE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE GUARANTEE AND LIVABILITY OF THE PLANT.
 - UNLESS OTHERWISE SPECIFIED DUE TO SOIL CONDITIONS, SET ROOT FLARE OF ROOTBALL LEVEL WITH SURROUNDING GRADE. ROOT SYSTEM SHALL BE AS SPECIFIED IN PLANT SCHEDULE:
- BALLED AND BURLAPPED:**
 ROOTS MUST BE STURDILY ESTABLISHED IN BALL THAT HAS BEEN TIGHTLY WRAPPED AND SECURELY TIED WITH TWINE OR WIRE, OR PINNED. WHERE WIRE BASKETS ARE USED ON TREES OR SHRUBS, CUT BURLAP AND WIRE BACK TO 1/4 THE BASE OF ROOTBALL AND REMOVE FROM PLANTING HOLE. REMOVE ALL STRAPS, WIRE STRAP HANGERS, ETC. FROM ROOTBALL. DO NOT ALLOW REMAINING WIRE TO PROTRUDE INTO MULCH OR TOPSOIL AREAS.
- CONTAINER GROWN:**
 CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING DESIGN PROFESSIONAL OF ROOT BOUND SPECIMENS. REMOVE CONTAINER AND SCARIFY OR SHAVE ROOTBALL AS NEEDED TO REMEDIATE ROOT BOUND CONDITION. PULL SURFACE ROOTS AT TOP OF ROOTBALL OUT IN A DIRECTIONAL PATTERN TO DISCOURAGE CIRCLING ROOTS.
- STAKING IS ONLY TO BE INSTALLED IN SPECIAL CIRCUMSTANCES AT THE DIRECTION OF THE DESIGN PROFESSIONAL. ANY STAKING MATERIAL MUST BE REMOVED AT THE END OF THE WARRANTY PERIOD.
 - ALL TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM ANY UTILITY LINE AND/OR EASEMENT. ALL UTILITIES (WATER, SEWER, GAS, FIBER OPTIC, ETC.) MUST BE INSTALLED AT LEAST FIVE (5) FEET FROM REQUIRED TREE PLANTING ISLANDS OR LANDSCAPE AREAS.
 - IF TREE SURVEY INACCURACIES ARE FOUND ON-SITE, A STOP WORK ORDER WILL BE ISSUED UNTIL REVISED PLANS ARE APPROVED AND PROCESSED BASED ON ACCURATE INFORMATION.
 - TREES AGREED UPON TO BE SAVED ARE THE RESPONSIBILITY OF THE OWNER.
 - A 1" 4" LAYER OF MULCH WILL BE REQUIRED FOR THE CRZ OF SPECIMEN TREES. MULCH MUST BE APPLIED PRIOR TO START OF CONSTRUCTION. MULCH SHALL NOT BE PLACED DIRECTLY AGAINST TREE TRUNKS.
 - NO TRENCHING IS ALLOWED IN TREE SAVE AREAS, INCLUDING FOR THE INSTALLATION OF IRRIGATION.
 - TREE PIT DRAINAGE TESTING IS REQUIRED WHEN TREES ARE PLANTED IN PARKING LOT ISLANDS, SIDEWALK TREE PITS, ROADWAY MEDIANS, OR SIMILAR LOCATIONS. REFER TO CITY DETAILS REGARDING PLANTING PIT OR LANDSCAPE ISLAND CONSTRUCTION. FILL EACH PIT WITH WATER. IF PERCOLATION IS LESS THAN 100% WITHIN A PERIOD OF 12 HOURS, USE AN AUGER TO DRILL A 10" HOLE TO A DEPTH OF FOUR FEET BELOW THE BOTTOM OF THE PIT. FILL AUGER HOLE WITH DRAINAGE GRAVEL AND COVER WITH A SOIL SEPARATOR. RETEST PIT. IF DRAINAGE IS STILL UNSATISFACTORY, CITY ARBORIST AND/OR PROJECT ARBORIST MUST BE NOTIFIED IN WRITING OF THE LOCATIONS WITH UNSATISFACTORY DRAINAGE SO THAT A SOLUTION CAN BE ARRIVED UPON BEFORE PLANTING. ALL TESTING RESULTS MUST BE PROVIDED TO THE CITY ARBORIST.
 - ALL BUFFERS SHALL BE REPLANTED WHERE SPARSE OR AS DIRECTED BY THE CITY OF BROOKHAVEN IN ORDER TO CREATE A YEAR-ROUND OPAQUE SCREEN WITHIN 2 YEARS OF CONSTRUCTION. THIS MAY BE IN ADDITION TO WHAT IS SHOWN ON THE APPROVED LANDSCAPE PLAN.



Tree and shrub plantings to be installed according to City of Brookhaven standard details: <https://www.brookhavenga.gov/commdev/page/st>



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 1 | 04/20 | LDP - South Trail |
| 2 | 05/06 | State Buffer Comments - South Trail |
| 3 | 05/06 | LDP - Natural Play Area |
| 4 | 05/07 | LDP - South Trail - City Comment #1 |
| 5 | 05/28 | LDP - Natural Play Area - City Comment #2 |
| 6 | 05/28 | LDP - Natural Play Area - City Comment #3 |
| 7 | 06/30 | LDP - Horseshoe Road |
| 8 | 07/07 | LDP - Community Green |
| 9 | 07/10 | LDP - Food Parking |
| 10 | 08/17 | LDP - Community Green - City Comment #1 |
| 11 | 08/17 | LDP - South Trail - City Comment #4 |
| 12 | 08/17 | LDP - South Trail - City Comment #5 |
| 13 | 10/13 | LDP - Food Parking - City Comment #1 |
| 14 | 10/16 | LDP - Natural Play Area - City Comment #4 |
| 15 | 10/19 | SDP - Multi-use Trail on Darn |
| 16 | 11/09 | North Boardwalk Design-Build |
| 16 | 11/18 | LDP - Food Parking - City Comment #2 |



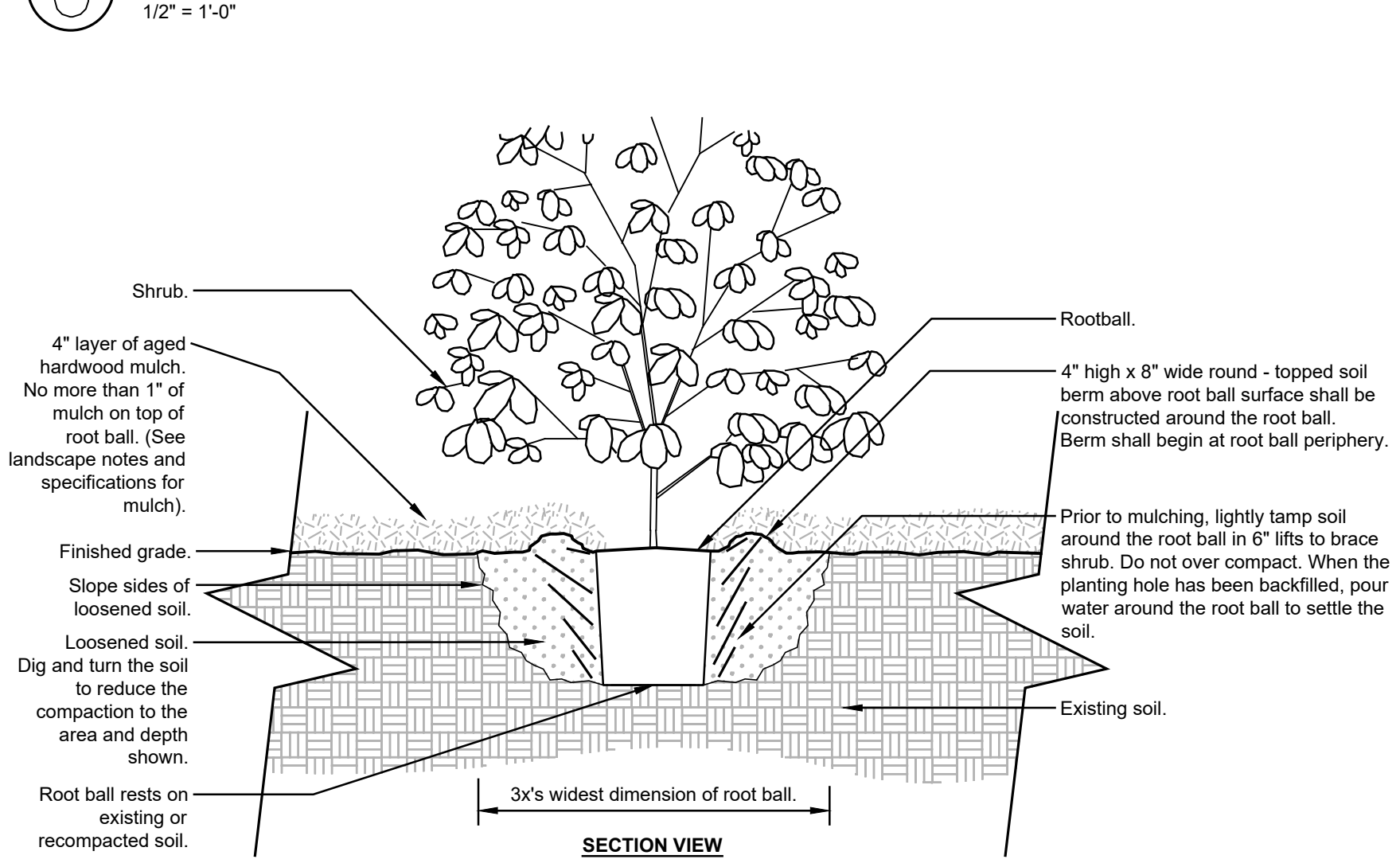
CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

| | | |
|-------------|-------|---------|
| DATE | DRAWN | CHECKED |
| 04/23/20 | BM | GZ |
| SCALE | | |
| SHEET TITLE | | |

PLANTING DETAILS

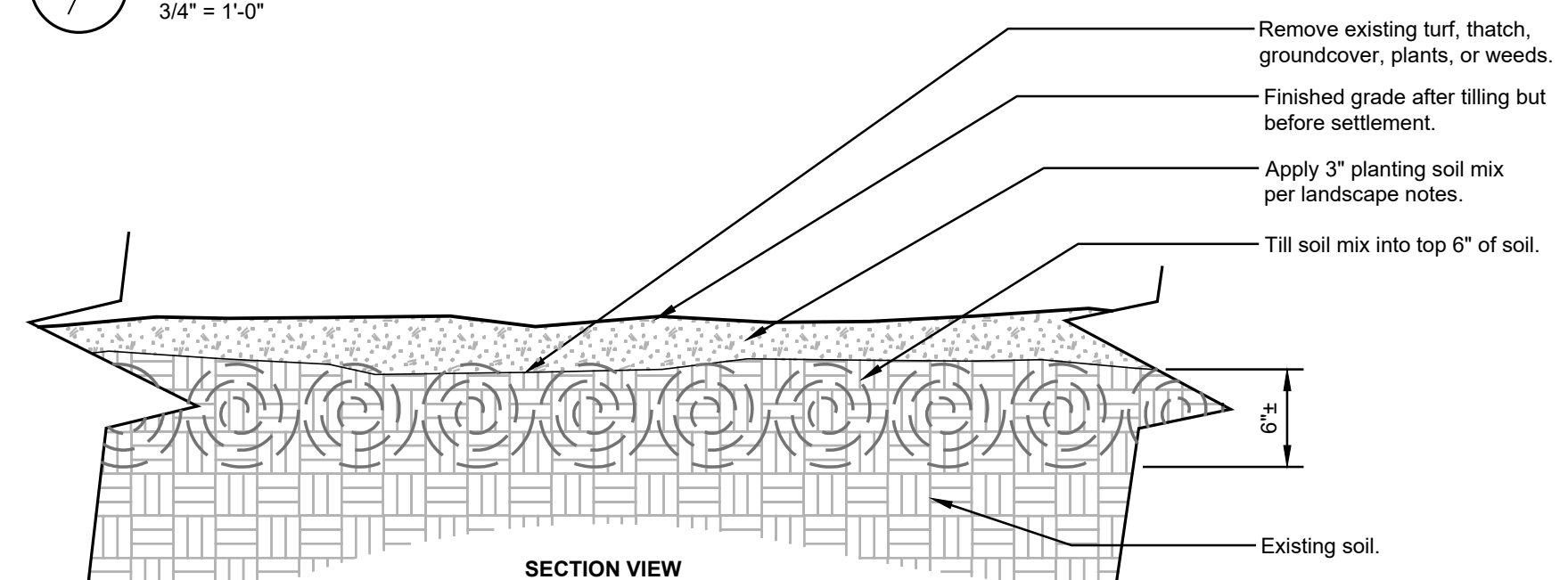
| | |
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| PROJECT NUMBER | 15092.00 |
| C9.6C | |
| 25 | |
| DRAWING NUMBER | |

6 TREE STAKING - LODGE POLES (3)



Notes:
 1- Shrubs shall be of quality prescribed in the root observations detail and specifications.

7 SHRUB - UNMODIFIED SOIL



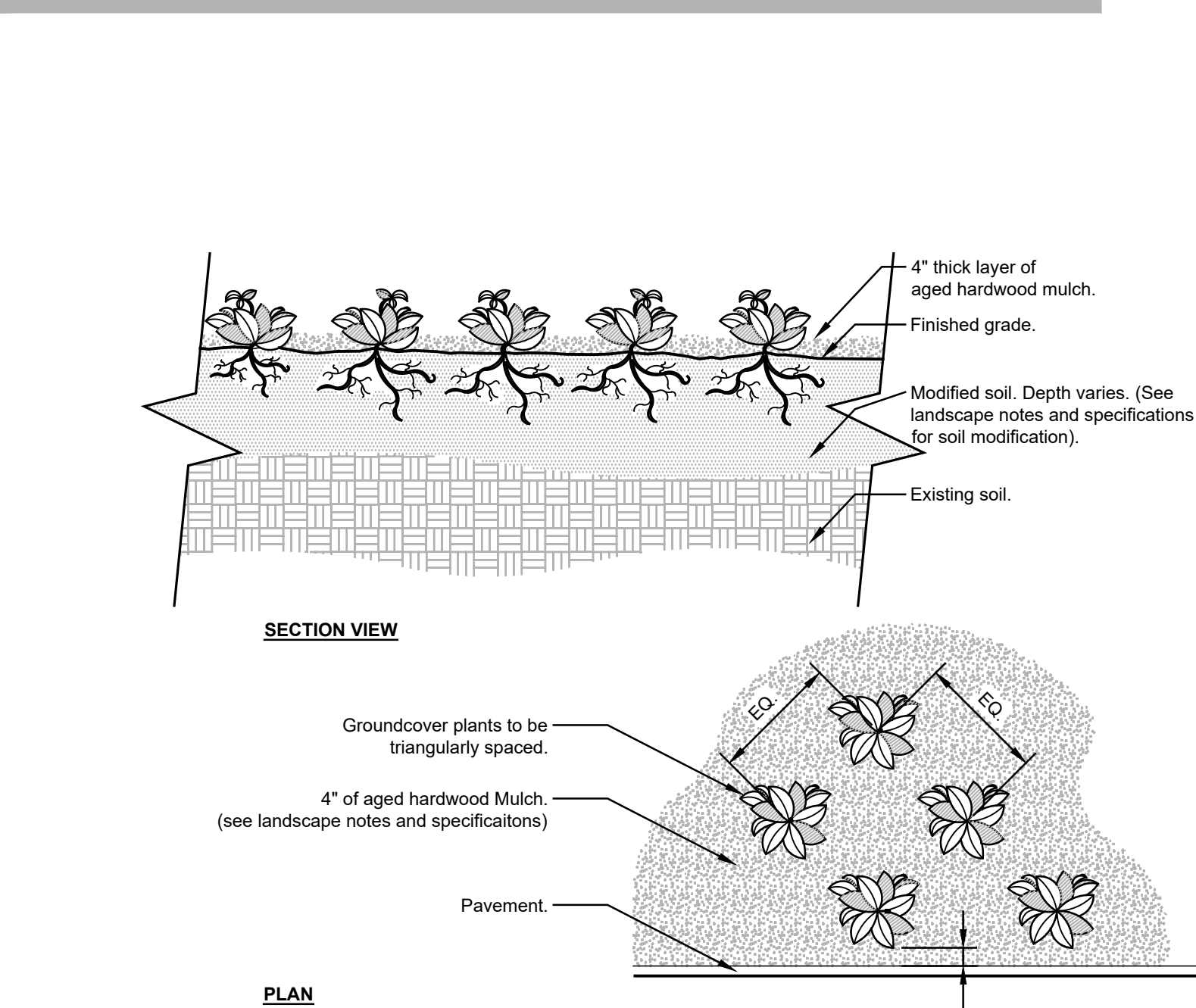
- Notes:
- Prior to the start of work remove all thatch, sod, and/or weeds.
 - Loosen soil with rototiller or approved equal to a depth of 6" - 8" and work around encountered roots.
 - All rocks and debris shall be removed to a minimum depth of 6".
 - Apply 2" - 3" of top soil mix (per planting notes) over loosened soil. Using a rototiller mix top soil into loosened soil.
 - Water entire root zone at end of each work day.

5 SOIL PREPARATION / CULTIVATION

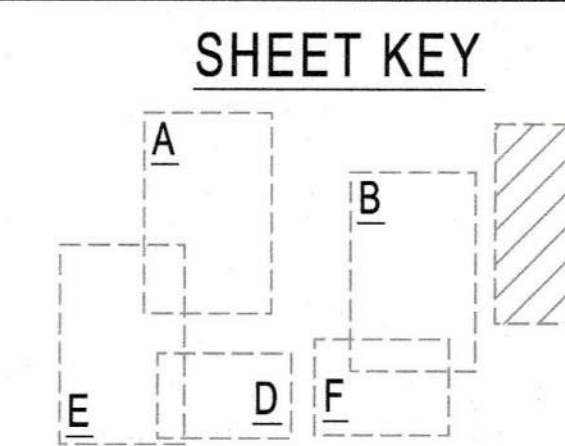
3/4" = 1'-0"

3 GROUNDCOVER INSTALLATION / SPACING

3/4" = 1'-0"

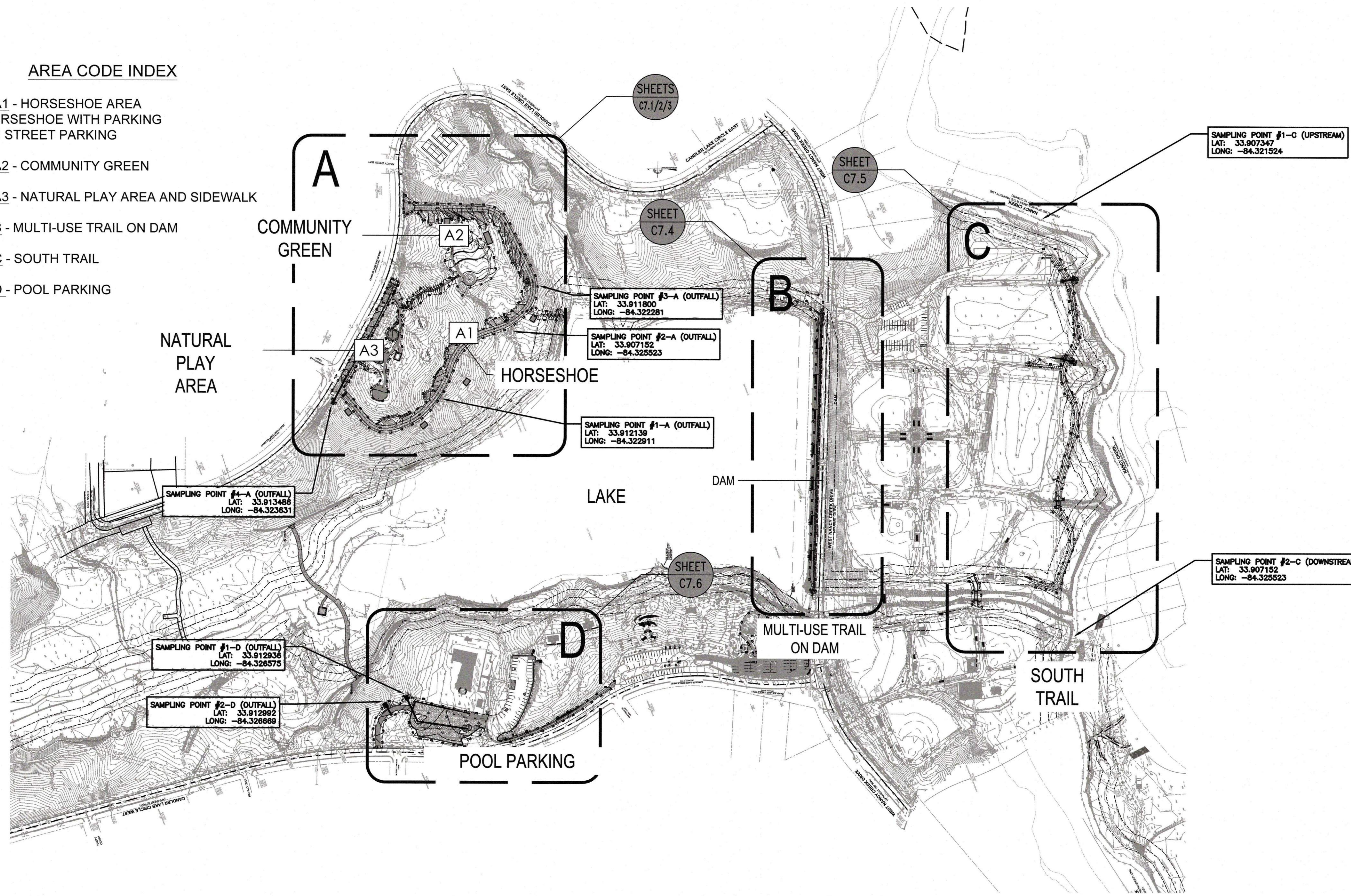


- Notes:
- See planting legend for groundcover species, size, and spacing dimension.
 - Small roots (1/2" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting. (See root ball shaving container detail).
 - Settle soil around root ball of each groundcover prior to mulching.



AREA CODE INDEX

1. AREA A1 - HORSESHOE AREA
 - HORSESHOE WITH PARKING
 - ON STREET PARKING
2. AREA A2 - COMMUNITY GREEN
3. AREA A3 - NATURAL PLAY AREA AND SIDEWALK
4. AREA B - MULTI-USE TRAIL ON DAM
5. AREA C - SOUTH TRAIL
6. AREA D - POOL PARKING



MONITORING CHART:

Conduct Turbidity and Total Suspended Solids (TSS) Sampling after every rain event of 0.5 inches or greater within any 24 hour period, recognizing the exceptions specified in Part N.D.6.d of the NPDES Permit GAR 100001. Representative Sampling is not used on this project.

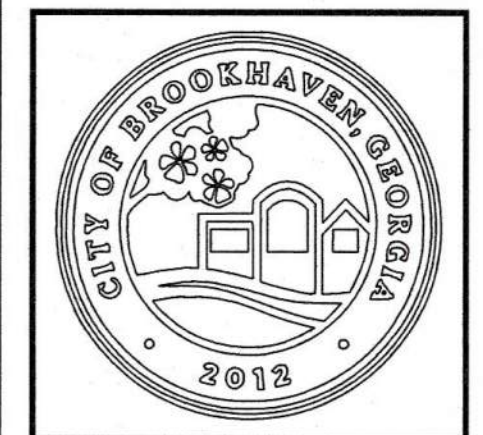
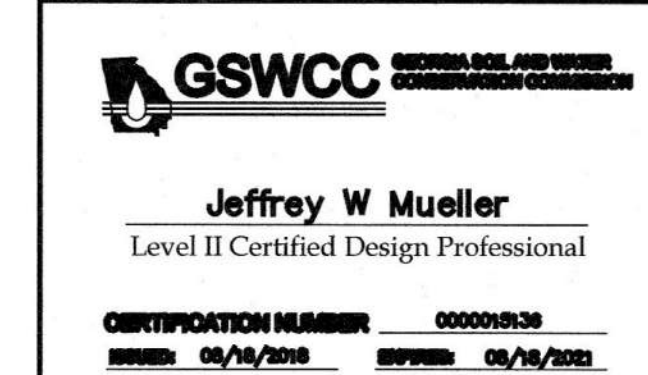
| Monitoring Site | Primary or Alternate Site | Location Description | Name of Receiving Water | Applicable construction Phase | Sampling Type (Outfall or Receiving Water) | Drainage Area for Receiving Water (SQ MI) | Disturbed Area (AC) | Warm or Cold Water Stream | Appendix B NTU value (Outfall Monitoring) | Allowable NTU increase (for Receiving Water) |
|-----------------|---------------------------|-------------------------------------|-------------------------|-------------------------------|--|---|---------------------|---------------------------|---|--|
| South Trail | Primary | Sample Location #1 & #2 | Nancy Creek | All | Receiving Water | 13.95 | 0.57 | Warm | NA | 25 |
| Pool Parking | Primary | Sample Location #1D & #2D | Candler Lake | All | Outfall | 13.95 | 0.9 | Warm | 50 | NA |
| Horseshoe Loop | Primary | Sample Location #1A, #2A, #3A & #4A | Candler Lake | All | Outfall | 13.95 | 0.99 | Warm | 50 | NA |
| Community Green | Primary | Sample Location #1A, #2A & #3A | Candler Lake | All | Outfall | 13.95 | 0.73 | Warm | 50 | NA |
| Natural Play | Primary | Sample Location #4A | Candler Lake | All | Outfall | 13.95 | 0.41 | Warm | 50 | NA |



2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
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 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A.# LSF000810

NOTE:
 THE WRESTED VEGETATION
 AND 803 CONTOUR WERE
 SURVEYED BY
 TERRAMARK ON FEB. 4,
 2021

24-HR EMERGENCY CONTACT:
 LEE CROY
 CITY OF BROOKHAVEN
 4362 PEACHTREE ROAD
 BROOKHAVEN, GA 30319
 CELL: (678) 576 9846



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 11 | 08/17 | LDP - South Trail - City Council #1 |
| 12 | 09/17 | LDP - South Trail - City Council #1 |
| 13 | 10/13 | LDP - Pool Parking - City Council #1 |
| 14 | 10/16 | LDP - Natural Play Area Field Change #1 |
| 15 | 10/19 | Multi-use Trail on Dam - Preboard Permit #1 |
| 16 | 11/18 | LDP - Pool Parking - City Council #1 |
| 17 | 11/20 | LDP - Community Green - City Council #1 |
| 18 | 11/20 | LDP - Horseshoe - City Council #1 |
| 19 | 11/20 | NORTH BOARDWALK DESIGN-BUILD |
| 20 | 12/01 | Multi-use Trail on Dam - Preboard Permit #1 |
| 21 | 12/11 | Multi-use Trail on Dam - Preboard Permit #1 |
| 22 | 12/29 | Boardwalk |
| 23 | 02/14 | COMMUNITY GREEN - BUILDING PERMIT #1 |
| 24 | 02/04 | HORSESHOE BUILDING #1 |
| 25 | 02/11 | NORTH BOARDWALK DESIGN-BUILD-UPGRADE |
| 26 | 03/03 | SOCCER BUILDING #1 |



CITY OF BROOKHAVEN
 MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 03/03/21 | GZ | MC |

SCALE

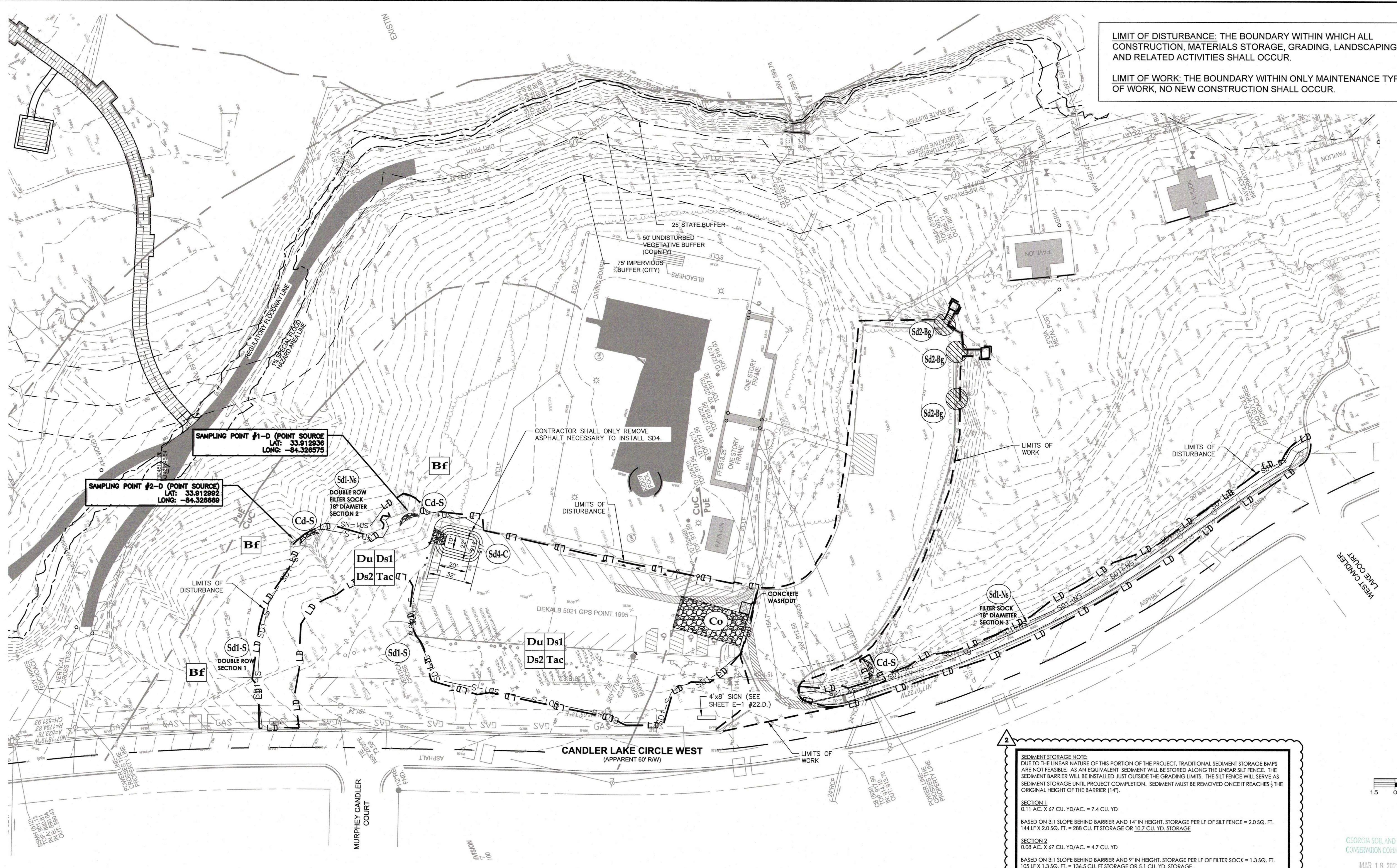
SHEET TITLE

ESCP NOTES III

PROJECT NUMBER
 15092.00

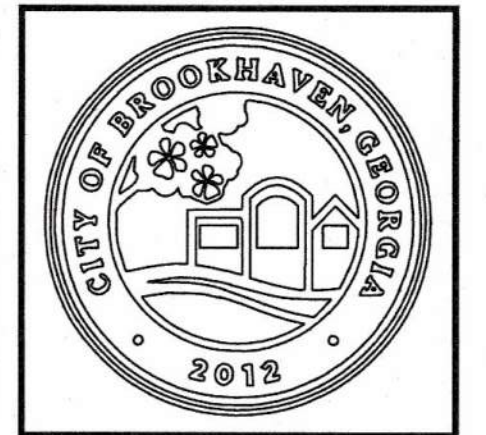
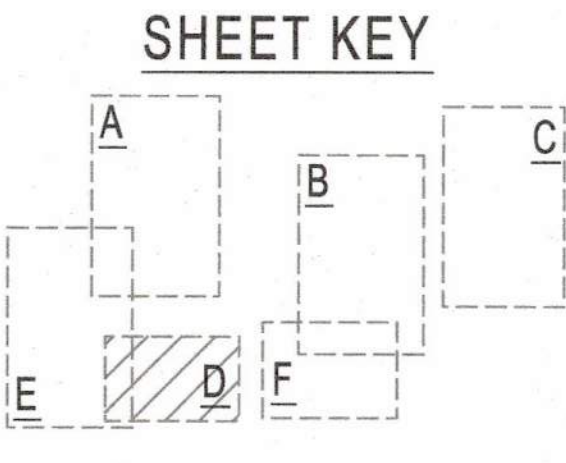
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DRAWING NUMBER

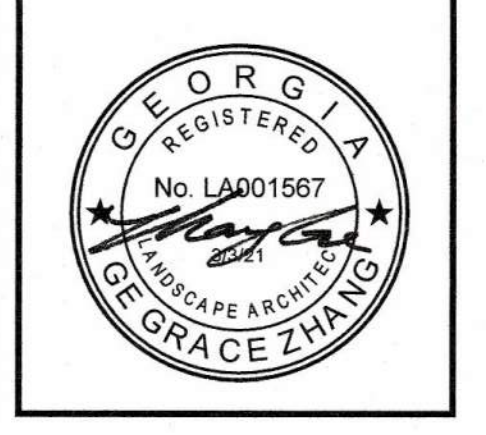


LIMIT OF DISTURBANCE: THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, MATERIALS STORAGE, GRADING, LANDSCAPING AND RELATED ACTIVITIES SHALL OCCUR.

LIMIT OF WORK: THE BOUNDARY WITHIN ONLY MAINTENANCE TYPE OF WORK, NO NEW CONSTRUCTION SHALL OCCUR.



| No. | Date | Description |
|-----|-------|--|
| 11 | 08/17 | LP - South Tal - City Comment #1 |
| 12 | 08/17 | LP - South Tal - City Comment #1 |
| 13 | 10/13 | LP - Parkway - City Comment #1 |
| 14 | 10/16 | LP - Newer Play Area Field Design #1 |
| 15 | 10/19 | Mark on Trail on Den - Pedestrian Bridge |
| 16 | 11/16 | LP - Parkway - City Comment #1 |
| 17 | 11/20 | LP - Community Drive - City Comment #1 |
| 18 | 11/20 | LP - Horseshoe - City Comment #1 |
| 19 | 11/20 | NORTH BROADWAY DESIGN-BUILD |
| 20 | 12/01 | Mark on Trail on Den - Pedestrian Comment #1 |
| 21 | 12/11 | Mark on Trail on Den - Pedestrian Comment #1 |
| 22 | 12/28 | ISSUED FOR PERMIT |
| 23 | 01/11 | COMMUNITY DESIGN - BUILDING REPORT #1 |
| 24 | 02/04 | ISSUED FOR PERMIT |
| 25 | 02/11 | NORTH BROADWAY DESIGN-BUILD-UPDATE |
| 26 | 03/05 | ISSUED FOR PERMIT |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
 1551 W. NANCY CREEK DRIVE NE
 BROOKHAVEN, GEORGIA 30319

Date last accessed: 3/2/2021 10:23 AM
 Date last published: 3/2/2021 2:52 PM
 Plotted By: Matt Sturnak
 Drawing Name: S:\Projects\Brookhaven, GA\Murphey Candler Park\GIS\CAD\C7 Series -MCP-Erosion Control Plan-Final Area.dwg

SD4 CALCULATIONS:

REQUIRED:
 0.56 ACRE @ 67 CU.YD. PER DISTURBED ACRE = 38 CY

PROVIDED: 45 CU.YD. = @ 917.00

BOTTOM ELEV.: 914.00
 SPILLWAY ELEV.: 917.00
 SPILLWAY WIDTH: 5.00'
 TOP OF BERM: 917.50
 CLEAN OUT ELEV.: 915.35

CLEANOUT VOLUME FOR TRAP IS 1/3 OF THE TOTAL STORAGE VOLUME = 16 INCHES OR 915.35 AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

EMERGENCY CONTACT:
 LEE CROY
 CITY OF BROOKHAVEN
 4362 PEACHTREE ROAD
 BROOKHAVEN, GA 30319
 CELL: (678) 576 9846

GSWCC
Jeffrey W. Mueller
 Level II Certified Design Professional



2016 SURVEY & 2019 UPDATED TREE SURVEY
 TERRAMARK LAND SURVEYING, INC.
 1396 BELLS FERRY ROAD
 MARIETTA, GEORGIA 30066
 PHONE NO. (770) 421-1927
 FAX NO. (770) 421-0552
 WWW.TERRAMARK.COM
 C. O. A. # LSF000810

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|------|-------------------------|--------|------------|---|
| Cd | CHECKDAM | | | A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow. |
| Co | CONSTRUCTION EXIT | | | A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets. |
| Sd1 | SEDIMENT BARRIER | | | A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, or a silt fence. |
| Sd2 | INLET SEDIMENT TRAP | | | A temporary protective device formed at or around an inlet to a storm drain to trap sediment. |
| Sd4 | TEMPORARY SEDIMENT TRAP | | | A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser. |

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|------|--|--------|------------|--|
| Bf | BUFFER ZONE | | | Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams. |
| Ds1 | DISTURBED AREA REVEALATION (SEE MESSAGES ONLY) | | | Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion reducing cover. |
| Ds2 | DISTURBED AREA STABILIZATION (SEE MESSAGES ONLY) | | | Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas. |
| Du | DUST CONTROL ON EXPOSED AREAS | | | Controlling surface and air movement of dust on construction site, roadways and similar sites. |
| Tac | TERRACING AND BERMING | | | Substance used to anchor straw or hay mulch by coating the organic material to bind together. |

DESIGN PROFESSIONAL INITIAL SITE INSPECTION:

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPO HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMP'S WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMP'S HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY 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.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION
 INSPECT THE INSTALLATION OF INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMP'S WITHIN SEVEN (7) DAYS

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 # _____
 INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:

THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

SEDIMENT STORAGE NOTE:
 DUE TO THE LINEAR NATURE OF THIS PORTION OF THE PROJECT, TRADITIONAL SEDIMENT STORAGE BMP'S ARE NOT FEASIBLE. AS AN EQUIVALENT SEDIMENT WILL BE STORED ALONG THE LINEAR SILT FENCE, THE SEDIMENT BARRIER WILL BE INSTALLED JUST OUTSIDE THE GRADING LIMITS. THE SILT FENCE WILL SERVE AS SEDIMENT STORAGE UNTIL PROJECT COMPLETION. SEDIMENT MUST BE REMOVED ONCE IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE BARRIER (14').

SECTION 1
 0.11 AC. X 67 CU. YD./AC. = 7.4 CU. YD.
 BASED ON 3:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT. STORAGE PER LF OF SILT FENCE = 2.0 SQ. FT. 144 LF X 2.0 SQ. FT. = 288 CU. FT STORAGE OR 10.7 CU. YD. STORAGE

SECTION 2
 0.08 AC. X 67 CU. YD./AC. = 4.7 CU. YD.
 BASED ON 3:1 SLOPE BEHIND BARRIER AND 9" IN HEIGHT. STORAGE PER LF OF FILTER SOCK = 1.3 SQ. FT. 105 LF X 1.3 SQ. FT. = 136.5 CU. FT STORAGE OR 5.1 CU. YD. STORAGE

SECTION 3
 0.15 AC. X 67 CU. YD./AC. = 10 CU. YD.
 BASED ON 20:1 SLOPE BEHIND BARRIER FOR 10 HORIZONTAL FT AND 9" IN HEIGHT. STORAGE PER LF OF FILTER SOCK = 2.5 SQ. FT. 415 LF X 2.5 SQ. FT. = 1,037.5 CU. FT STORAGE OR 38.4 CU. YD. STORAGE

- EROSION CONTROL NOTES:**
- DISTURBED AREA: 0.90 AC.
 - THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NANCY CREEK (FECAL COLIFORM, BIO P).
 - NO ENCROACHMENT INTO STATE OR LOCAL STREAM BUFFERS ARE ANTICIPATED.
 - CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. RESULTS OF SOIL TEST AND PROPOSED FERTILIZATION RATES SHALL BE PROVIDED TO OWNER AND ENGINEER OF RECORD.
 - MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
 - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
 - AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURE MUST BE REMOVED. ALL TEMPORARY AND/OR PERMANENT GRASSING SHALL BE HYDROSEEDDED.
 - SEE DETAILS SHEETS FOR SILT FENCE AND COMPOST FILTER SOCK HEIGHT REQUIREMENTS.
 - COMPOST FILTER SOCKS ON PAVEMENT SHALL HAVE CONCRETE BLOCKS PLACED BEHIND THE FILTER SOCKS AT 6' O.C.

TREE PROTECTION NOTE:
 NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS. ALL TREE PROTECTION FENCE TO BE INSPECTED DAILY.

STATE WATERS:
 STATE WATERS (MURPHY CANDLER LAKE) IS LOCATED ONSITE AND WITHIN 200 FEET OF THE SITE.

- CITY OF BROOKHAVEN EROSION CONTROL NOTES:**
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
 - THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMANDS, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
 - 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 WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
 - IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERMITTER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
 - OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
 - THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
 - THE CONSTRUCTION OF THE SITE WILL INITIATE 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.
 - IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
 - ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMPORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT WITHIN 14 DAYS AFTER DISTURBANCE. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
 - A CONCRETE WASHDOWN BMP SHALL BE PROVIDED. THE CONCRETE WASHDOWN AREA SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
 - 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 CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.
 - A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 03/03/21 | GZ | MC |

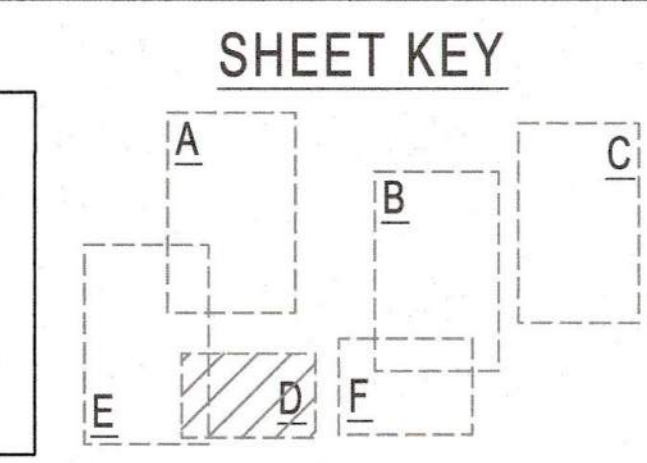
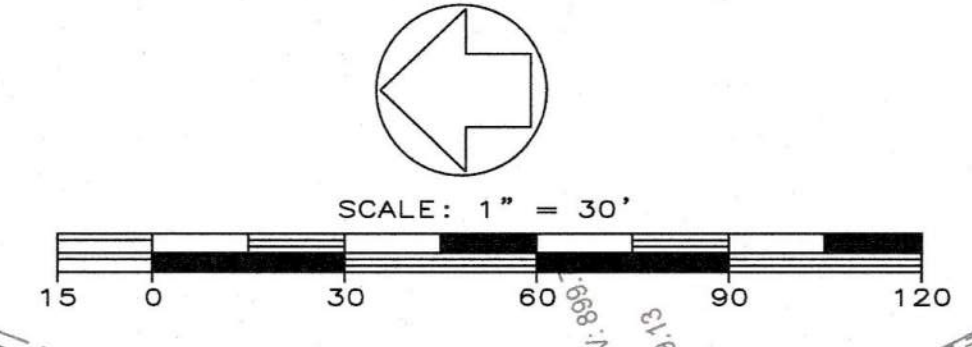
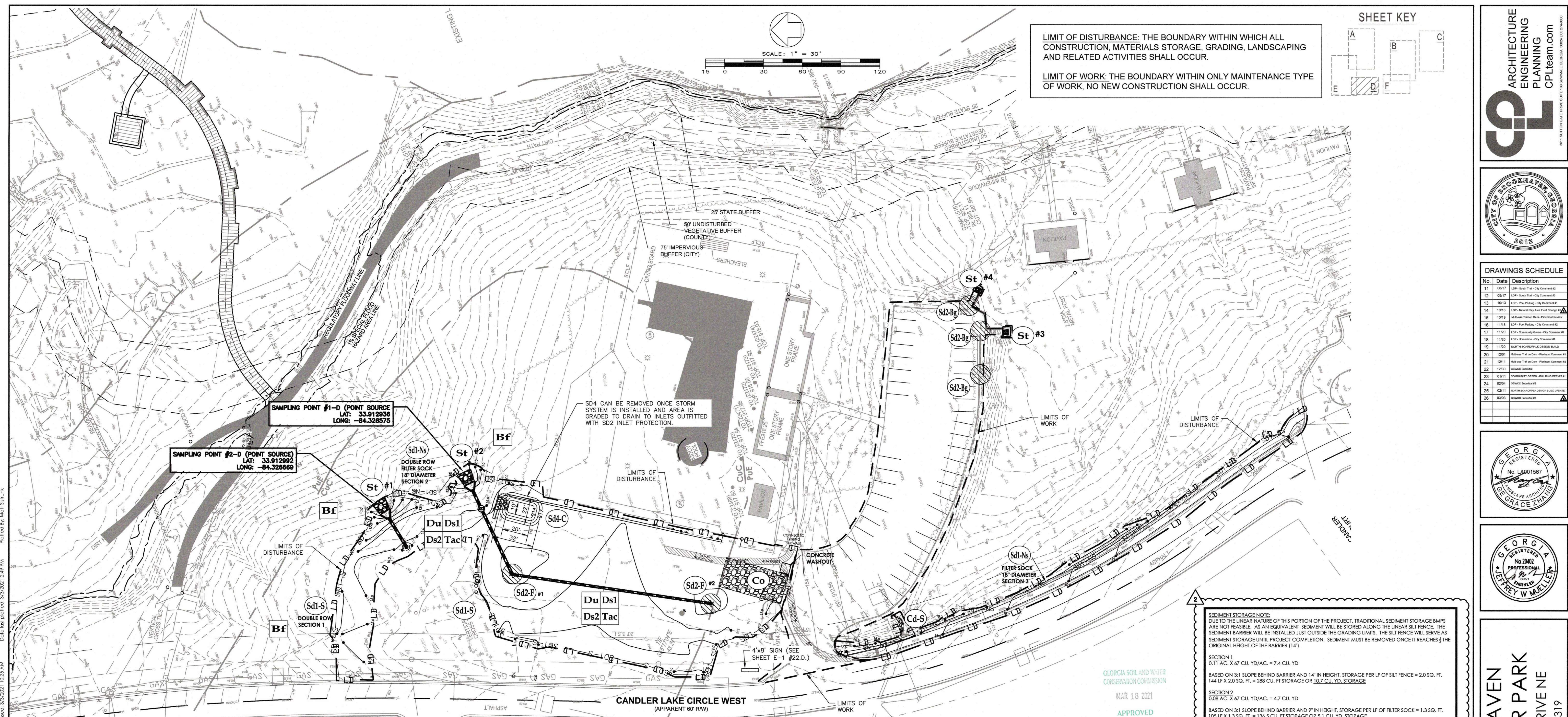
SHEET TITLE
INITIAL EROSION AND SEDIMENT CONTROL PLAN POOL PARKING

PROJECT NUMBER
 15092.00

C7.6A

DRAWING NUMBER
 12

APPROVED PLAN 08/16/2021
 Permit # LDP-20-00021



LIMIT OF DISTURBANCE: THE BOUNDARY WITHIN WHICH ALL CONSTRUCTION, MATERIALS STORAGE, GRADING, LANDSCAPING AND RELATED ACTIVITIES SHALL OCCUR.

LIMIT OF WORK: THE BOUNDARY WITHIN ONLY MAINTENANCE TYPE OF WORK, NO NEW CONSTRUCTION SHALL OCCUR.



DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 11 | 08/17 | LDP - Submittal - City Council #1 |
| 12 | 08/17 | LDP - Submittal - City Council #1 |
| 13 | 10/13 | LDP - Final Permit - City Council #1 |
| 14 | 10/16 | Final Permit - Final Review - City Council #1 |
| 15 | 10/16 | Final Permit - Final Review - City Council #1 |
| 16 | 11/18 | LDP - Final Permit - City Council #1 |
| 17 | 11/20 | LDP - Community Green - City Council #1 |
| 18 | 11/20 | LDP - Hazardous - City Council #1 |
| 19 | 11/20 | Final Permit - Hazardous - City Council #1 |
| 20 | 12/01 | Final Permit - Hazardous - City Council #1 |
| 21 | 12/11 | Final Permit - Hazardous - City Council #1 |
| 22 | 12/06 | CONTRACT SCHEDULE |
| 23 | 01/11 | CONTRACT SCHEDULE - BUILDING PERMIT #1 |
| 24 | 02/04 | CONTRACT SCHEDULE #1 |
| 25 | 02/11 | Final Permit - Hazardous - City Council #1 |
| 26 | 03/03 | Final Permit - Hazardous #1 |



SEDIMENT STORAGE NOTE:
DUE TO THE LINEAR NATURE OF THIS PORTION OF THE PROJECT, TRADITIONAL SEDIMENT STORAGE BMPs ARE NOT FEASIBLE. AS AN EQUIVALENT, SEDIMENT WILL BE STORED ALONG THE LINEAR SET FENCE. THE SEDIMENT BARRIER WILL BE INSTALLED JUST OUTSIDE THE GRADING LIMITS. THE SILT FENCE WILL SERVE AS SEDIMENT STORAGE UNTIL PROJECT COMPLETION. SEDIMENT MUST BE REMOVED ONCE IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE BARRIER (1-4').

SECTION 1
0.11 AC. X 67 CU. YD./AC. = 7.4 CU. YD.
BASED ON 3:1 SLOPE BEHIND BARRIER AND 14" IN HEIGHT. STORAGE PER LF OF SET FENCE = 2.0 SQ. FT. 144 LF X 2.0 SQ. FT. = 288 CU. YD. STORAGE OR 10.7 CU. YD. STORAGE

SECTION 2
0.08 AC. X 67 CU. YD./AC. = 4.7 CU. YD.
BASED ON 3:1 SLOPE BEHIND BARRIER AND 9" IN HEIGHT. STORAGE PER LF OF FILTER SOCK = 1.3 SQ. FT. 105 LF X 1.3 SQ. FT. = 136.5 CU. YD. STORAGE OR 5.1 CU. YD. STORAGE

SECTION 3
0.15 AC. X 67 CU. YD./AC. = 10 CU. YD.
BASED ON 20:1 SLOPE BEHIND BARRIER FOR 10 HORIZONTAL FT AND 9" IN HEIGHT. STORAGE PER LF OF FILTER SOCK = 2.5 SQ. FT. 415 LF X 2.5 SQ. FT. = 1037.5 CU. YD. STORAGE OR 38.4 CU. YD. STORAGE

SD4 CALCULATIONS:

REQUIRED: 0.56 ACRE @ 67 CU. YD. PER DISTURBED ACRE = 38 CY
PROVIDED: 45 CU. YD. = 0.67 ACRE

BOTTOM ELEV.: 914.00
SPILLWAY ELEV.: 917.00
SPILLWAY WIDTH: 5.00'
TOP OF BERM: 917.50
CLEAN OUT ELEV.: 915.35

CLEANOUT VOLUME FOR TRAP IS 1/2 OF THE TOTAL STORAGE VOLUME = 16 INCHES OR 915.35 AND SHALL BE MARKED WITH A STAKE AT THE OUTLET OF THE TRAP.

| SD2 #1 EXCAVATED SEDIMENT TRAP | SD2 #2 EXCAVATED SEDIMENT TRAP |
|--------------------------------|--------------------------------|
| AREA DRAINED 0.25 AC | AREA DRAINED 0.29 AC |
| REQUIRED STORAGE 17 CY | REQUIRED STORAGE 19 CY |
| SIDE SLOPES 2H:1V | SIDE SLOPES 2H:1V |
| EXCAVATION DEPTH 2 FT | EXCAVATION DEPTH 2.5 FT |
| RWD SURFACE AREA 226 SF | RWD SURFACE AREA 210 SF |
| LENGTH OF EXCAVATION 15 FT | LENGTH OF EXCAVATION 15 FT |
| WIDTH OF EXCAVATION 15 FT | WIDTH OF EXCAVATION 15 FT |
| PROVIDED STORAGE 17 CY | PROVIDED STORAGE 21 CY |

| STRUCTURE | PIPE DIA. (CFS) | FLOW DIA. | La | W1 | W2 | VEL FTS | do** | dmax** | Tailwater Condition | Tw Depth | Stone Depth (D) |
|------------|-----------------|-----------|-----|------|-------|---------|-------|--------|---------------------|----------|-----------------|
| #1 - ED | 18" | 0.44 | 10' | 4.5' | 11.5' | 2.31 | 0.30' | 0.5' | min. (<0.5D) | 0.2' | 18" |
| #2 - DO | 18" | 3.13 | 10' | 4.5' | 11.5' | 4.09 | 0.30' | 0.5' | min. (<0.5D) | 0.6' | 18" |
| #3 - FLUME | N/A | 4.03 | 10' | 4' | 14' | 13.33 | 0.75' | 1.2' | min. (<0.5D) | 0.1' | 22" |
| #4 - FLUME | N/A | 0.64 | 8' | 4' | 12' | 5.33 | 0.30' | 0.5' | min. (<0.5D) | 0.1' | 18" |

NOTES:
-RIP-RAP APRON SHALL EXTEND AT MINIMUM TO WIDTH OF HEADWALL WINGS.
**MINIMUM APRON THICKNESS SHALL BE 18"
*DEFINITIONS:
GSD - AVERAGE STONE DIAMETER
GMAX - MAXIMUM STONE DIAMETER
D - STONE DEPTH
W1 - WIDTH AT HEADWALL
W2 - DOWNSTREAM WIDTH
VEL - VELOCITY
TW - TAILWATER
Do - DIAMETER OF PIPE

STRUCTURAL PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|------|-------------------------------|--------|------------|---|
| Co | OVERFLOW | | | A small temporary barrier or dam constructed across an swale, drainage ditch or area of concentrated flow. |
| Co | CONSTRUCTION EXIT | | | A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets. |
| Sd1 | SEDIMENT BARRIER | | | A barrier to prevent sediment from leaving the construction site. It may be sodbags, bales of straw or hay, brush, logs and poles, or a silt fence. |
| Sd2 | INLET SEDIMENT TRAP | | | A temporary protective device formed at or around an inlet to a storm drain to trap sediment. |
| Sd4 | TEMPORARY SEDIMENT TRAP | | | A small temporary pond that drains a disturbed area so that sediment can settle out. The practice feature detouring a temporary sediment trap from a temporary sediment basin in the lack of a pipe or riser. |
| St | STORM DRAIN OUTLET PROTECTION | | | A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff. |

VEGETATIVE PRACTICES

| CODE | PRACTICE | DETAIL | MAP SYMBOL | DESCRIPTION |
|------|--|--------|------------|--|
| Bf | BUFFER ZONE | | | Strip of undisturbed original vegetation, enhanced or restored existing vegetation or new establishment of vegetation surrounding an area of disturbance or bordering streams. |
| Ds1 | RESTORED AREA (SEEDING ONLY) | | | Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion reducing cover. |
| Ds2 | RESTORED AREA (STABILIZATION OR TOP SEEDING) | | | Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas. |
| Ds4 | RESTORED AREA (WOODING) | | | A permanent vegetative cover using sods on highly erodible or critically eroded lands. |
| Du | SOIL CONTROL ON DISTURBED AREAS | | | Controlling surface and air movement of soil on construction sites, roadways and similar sites. |
| Tac | TACKLING AND BUNDLING | | | Substance used to anchor straw or hay mulch by causing the organic material to bind together. |

DESIGN PROFESSIONAL INTERMEDIATE SITE INSPECTION:
THE DESIGN PROFESSIONAL WHO PREPARED THE ES&P PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN DURING INTERMEDIATE PHASE OF CONSTRUCTION.
THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPO HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER 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 PRIMARY 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.
DESIGN PROFESSIONAL INTERMEDIATE VISIT CERTIFICATION
INSPECT THE INSTALLATION OF INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs
DATE OF INSPECTION _____
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&P PLAN ON THE DATE OF INSPECTION _____
GSWCC LEVEL II DESIGN PROFESSIONAL # _____
INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&P PLAN _____
THESE DOCUMENTS MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

EROSION CONTROL NOTES:

- DISTURBED AREA: 0.90 AC
- THE SITE IS LOCATED WITHIN 1 MILE OF AN IMPAIRED STREAM, NANCY CREEK (FECAL COLIFORM, BIO F).
- NO ENCROACHMENT INTO STATE OR LOCAL STREAM BUFFERS ARE ANTICIPATED.
- CONTRACTOR SHALL CONDUCT SOIL TESTS TO IDENTIFY AND IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS. RESULTS OF SOIL TEST AND PROPOSED FERTILIZATION RATES SHALL BE PROVIDED TO OWNER AND ENGINEER OF RECORD.
- MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER/DEVELOPER.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING IN ACCORDANCE WITH THE GUIDELINES FOR DISTURBED AREA STABILIZATION CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA.
- ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION.
- AS SOON AS THE SITE HAS ACHIEVED FINAL STABILIZATION, ALL SILT FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED. ALL TEMPORARY AND/OR PERMANENT GRASSING SHALL BE HYDROSEEDDED.
- SEE DETAILS SHEETS FOR SILT FENCE AND COMPOST FILTER SOCK HEIGHT REQUIREMENTS.
- COMPOST FILTER SOCKS ON PAVEMENT SHALL HAVE CONCRETE BLOCKS PLACED BEHIND THE FILTER SOCKS AT 1' O.C.

CITY OF BROOKHAVEN EROSION CONTROL NOTES:

- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
- THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ON TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS WARRANT, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORK DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 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 WITHIN THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.
- THE CONSTRUCTION OF THE SITE WILL INITIATE 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.
- FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS NECESSARY.
- ANY DISTURBED AREA LEFT EXPOSED SHALL BE TEMPORARILY STABILIZED WITH MULCH OR TEMPORARY SEEDING AS SOON AS POSSIBLE AFTER ROUGH GRADING IS COMPLETED BUT WITHIN 14 DAYS AFTER DISTURBANCE. PERMANENT VEGETATION SHALL BE PLANTED IF THE AREA IS TO BE LEFT UNDISTURBED FOR GREATER THAN 6 MONTHS.
- A CONCRETE WASHDOWN BMP SHALL BE PROVIDED. THE CONCRETE WASHDOWN AREA SHALL BE FOR THE TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES. WASHOUT OF DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
- 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 CONSISTENT WITH THE CITY OF BROOKHAVEN EROSION CONTROL ORDINANCE.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

TREE PROTECTION NOTE:
NO PARKING, STORAGE OR OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS. ALL TREE PROTECTION FENCE TO BE INSPECTED DAILY.

STATE WATERS:
STATE WATERS (MURPHY CANDLER LAKE) IS LOCATED ONSITE AND WITHIN 200 FEET OF THE SITE.

EMERGENCY CONTACT:
LEE CROY
CITY OF BROOKHAVEN
4362 PEACHTREE ROAD
BROOKHAVEN, GA 30319
CELL: (678) 576 9846

GSWCC
Jeffrey W Mueller
Level II Certified Design Professional
CERTIFICATION NUMBER: 00000000
ISSUED: 05/16/2016 EXPIRES: 05/16/2021

2016 SURVEY & 2019 UPDATED TREE SURVEY
TERRAMARK LAND SURVEYING, INC.
1396 BELLS FERRY ROAD
MARIETTA, GEORGIA 30068
PHONE NO. (770) 421-1927
FAX NO. (770) 421-0552
WWW.TERRAMARK.COM
C. O. A.# LSF000810

NOTE:
THE WRESTED VEGETATION AND BGS CONTOUR WERE SURVEYED BY TERRAMARK ON FEB. 4, 2021

GEORGIA811
Utilities Protection Center, Inc.
1-800-282-7411
Know what's below.
Call before you dig.

CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 03/03/21 | GZ | MC |

SCALE _____

SHEET TITLE
INTERMEDIATE
EROSION AND
SEDIMENT CONTROL
PLAN
POOL PARKING

PROJECT NUMBER
15092.00

C7.6B

13
DRAWING NUMBER

APPROVED PLAN 08/2021
Permit # LDP20-0020

Drawing Name: S:\Projects\Brookhaven, GA\Murphey Candler Pk\Design\01 Job Info\CAD\CT Series_MCP-Erosion Control Plan-Pool Area.dwg
 Date last accessed: 3/3/2021 10:25 AM
 Plotted By: Matt Slavick
 Date last plotted: 3/3/2021 2:49 PM

Sediment Barrier Sd1



DEFINITION
Sediment Barriers are temporary structures made up of a porous material typically supported by steel or wood posts. Types of sediment barriers include silt fence, brush piles, mulch berm, compost filter socks or other filtering material.

PURPOSE
To minimize and prevent sediment carried by sheet flow from leaving the site and entering natural drainage ways or storm drainage systems by slowing storm water runoff and causing the deposition and/or filtration of sediment at the structure. The barriers retain the soil on the disturbed land until the activities disturbing the land are completed and vegetation is established.

CONDITIONS
Barriers should be installed where runoff can be stored behind the barrier without damaging the submerged area behind the barrier or the structure itself. Sediment barriers shall not be installed across streams, ditches, waterways, or other concentrated flow areas.

DESIGN CRITERIA
Sediment barriers are designed to retain sediment transported by sheet flow from disturbed areas. It is important for the design professional to take into account the profile of the product for use on the site.

Sediment Barriers should also provide a riprap splash pad or other outlet protection device for any point where flow may overtop the sediment barrier. Ensure that the maximum height of the barrier at a protected, reinforced outlet does not exceed 1 foot and that the support spacing does not exceed 4 feet.

Where runoff is to be stored behind the sediment barrier (where no storm water disposal system is present), maximum continuous slope length behind a sediment barrier shall not exceed those shown in Table 6-27.1. For longer slope lengths, slope interrupters must be used. The drainage area shall not exceed 1 acre for every 100 feet of sediment barrier.

| Land Slope | Maximum Slope Length Above Fence |
|------------|----------------------------------|
| Percent | Feet |
| < 2 | 100 |
| 2 to 5 | 75 |
| 5 to 10 | 50 |
| 10 to 20 | 25 |
| > 20 | 15 |

*In areas where the slope is greater than 20%, a flat area length of 10 feet between the toe of slopes to the barrier should be provided.

Placement
The type of sediment barrier depends on whether the area is sensitive or non-sensitive. Sensitive areas can be defined as any area that needs additional protection, these areas include but are not limited to, state waters, wetlands, or any area the design professional designates as sensitive.

When using multiple types of sediment barriers on a site in a single run, the barriers must be overlapped 18 inches or as specified by design professional. See Figure 6-27.5.

CONSTRUCTION SPECIFICATIONS

Non-sensitive Areas - Sd1-NS
Sediment barriers being used as Type NS shall have a support spacing of no greater than 6 feet on center, with each being driven into the ground a minimum of 18 inches.

Sensitive Areas Sd1-S

Sediment barriers being used as Type S shall have a support spacing of no greater than 4 feet on center, with each being driven into the ground a minimum of 18 inches.

*As of January 1, 2016, in the existing Georgia Department of Transportation Qualified Products List (QPL - 30), Type A, B, or C will fall under sensitive and non-sensitive applications. Type C will be classified as sensitive and Type A and B as non-sensitive. Refer to Appendix A-2 and the Equivalent BMP List.

PH = 5.0-8.0 in accordance with TMECC 04.11.4, "Electrometric pH Determinations for Compost"

B Particle size - 99% passing a 2 inch (50mm) sieve and a maximum of 40% passing a 3/8 inch (9.5mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification" (Note: in the field, product composition is between 1/2, 3/4, 1, 1 1/2, 2, and 2 1/2 inch in particle size.)

C Moisture content of less than 60% in accordance with standardized test methods for moisture determination.

D Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

E Sock containment system for compost filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 in. to 3/8 in. openings.

Brush Barrier Sd1-BB
(Only during timber clearing operations)
Brush obtained from clearing and grubbing operations may be piled in a row along the perimeter of disturbance at the time of clearing and grubbing. Brush barriers should not be used in developed areas or locations where aesthetics are a concern.

Type A Silt Fence
This 36-inch wide filter fabric shall be used on developments where the life of the project is greater than or equal to six months. Type A is classified as non-sensitive application.

Type B Silt Fence
This 36-inch wide filter fabric shall be used on developments where the life of the project is less than six months. Type B is classified as non-sensitive application.

Type C Silt Fence
Type C fence is 36-inches wide with wire reinforcement or equivalent. The wire reinforcement is necessary because this fabric allows almost three times the flow rate as Type A silt fence. Type C silt fence shall be used where runoff flows or velocities are particularly high or where slopes exceed a vertical height of 10 feet. Type C is classified as sensitive application.

Filter Media Sock Specifications
Compost filter media used for sediment barrier filter material shall be weed free and derived from a well-decomposed source of organic matter. Filter Media Sock is classified as a Type B, non-sensitive application. The compost shall be produced using an aerobic composting process meeting CFR 503 regulations including time and temperature data. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted without applicable water quality test results. Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures:

PH = 5.0-8.0 in accordance with TMECC 04.11.4, "Electrometric pH Determinations for Compost"

B Particle size - 99% passing a 2 inch (50mm) sieve and a maximum of 40% passing a 3/8 inch (9.5mm) sieve, in accordance with TMECC 02.02-B, "Sample Sieving for Aggregate Size Classification" (Note: in the field, product composition is between 1/2, 3/4, 1, 1 1/2, 2, and 2 1/2 inch in particle size.)

C Moisture content of less than 60% in accordance with standardized test methods for moisture determination.

D Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

E Sock containment system for compost filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 in. to 3/8 in. openings.

Brush Barrier Sd1-BB
(Only during timber clearing operations)
Brush obtained from clearing and grubbing operations may be piled in a row along the perimeter of disturbance at the time of clearing and grubbing. Brush barriers should not be used in developed areas or locations where aesthetics are a concern.

Type A Silt Fence
This 36-inch wide filter fabric shall be used on developments where the life of the project is greater than or equal to six months. Type A is classified as non-sensitive application.

Type B Silt Fence
This 36-inch wide filter fabric shall be used on developments where the life of the project is less than six months. Type B is classified as non-sensitive application.

Type C Silt Fence
Type C fence is 36-inches wide with wire reinforcement or equivalent. The wire reinforcement is necessary because this fabric allows almost three times the flow rate as Type A silt fence. Type C silt fence shall be used where runoff flows or velocities are particularly high or where slopes exceed a vertical height of 10 feet. Type C is classified as sensitive application.

Filter Media Sock Specifications
Compost filter media used for sediment barrier filter material shall be weed free and derived from a well-decomposed source of organic matter. Filter Media Sock is classified as a Type B, non-sensitive application. The compost shall be produced using an aerobic composting process meeting CFR 503 regulations including time and temperature data. The compost shall be free of any refuse, contaminants or other materials toxic to plant growth. Non-composted products will not be accepted without applicable water quality test results. Test methods for the items below should follow US Composting Council Test Methods for the Examination of Composting and Compost guidelines for laboratory procedures:

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C Moisture content of less than 60% in accordance with standardized test methods for moisture determination.

D Material shall be relatively free (<1% by dry weight) of inert or foreign manmade materials.

E Sock containment system for compost filter media shall be a photodegradable or biodegradable knitted mesh material and should have 1/8 in. to 3/8 in. openings.

A brush barrier is a good tool to use in developing pasture in an agricultural situation which minimizes sediment from leaving the site until the pasture is stabilized.

If greater filtering capacity is required, a commercially available sediment barrier may be placed on the side of the brush barrier receiving the sediment-laden runoff. The lower edge of the fabric must be buried in a 6-inch deep trench immediately upfl from the barrier. The upper edge must be stapled, tied or otherwise secured to the brush barrier. Edges of adjacent fabric pieces must overlap each other. See Figure 6-27.5.

Installation
Sediment barriers should be installed along the contour.

Temporary sediment barriers shall be installed according to the following specifications as shown on the plans or as directed by the design professional.

For installation of the barriers, See Figures 6-27.1, 6-27.2, 6-27.3 and 6-27.4, respectively. It is important to remember that not all sediment barriers need to be trenched into the ground but most taller sediment barriers do.

Post installation shall start at the center of a low point (if applicable) with the remaining posts spaced no greater than 6 feet apart for Type NS sediment barriers and no greater than 4 feet apart for Type C sediment barriers. For post size requirements, see Table 6-27.2. Fasteners for wood posts are listed in Table 6-27.3.

Static Slicing Method
The static slicing machine pulls a narrow blade through the ground to create a slit 12" deep, and simultaneously inserts the silt fence fabric into this slit behind the blade. The blade is designed to slightly disrupt soil covering the slit and to minimize horizontal compaction, thereby creating an optimum condition for containing the soil vertically on both sides of the fabric. Compaction is achieved by rolling a tractor wheel along both sides of the slit in the ground 2 to 4 times to achieve nearly the same or greater compaction as the original undisturbed soil.

Along all state waters and other sensitive areas rows of Type S sediment barriers shall be used. The two rows of Type S should be placed a minimum of 36 inches apart.

MAINTENANCE
Sediment barriers shall be removed once it has accumulated to one-half the original height of the barrier.

Gabion barriers shall be replaced whenever they have deteriorated to such an extent that the effectiveness of the product is reduced (approximately six months) or the height of the product is not maintaining 80% of its properly installed height.

Temporary sediment barriers shall remain in place until disturbed areas are stabilized and permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.

TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

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When a SEDIMENT BARRIER is used, show the product height in inches for each barrier being used on site.

EROSION AND SEDIMENT CONTROL
TYPE B COMPOST FILTER SOCK

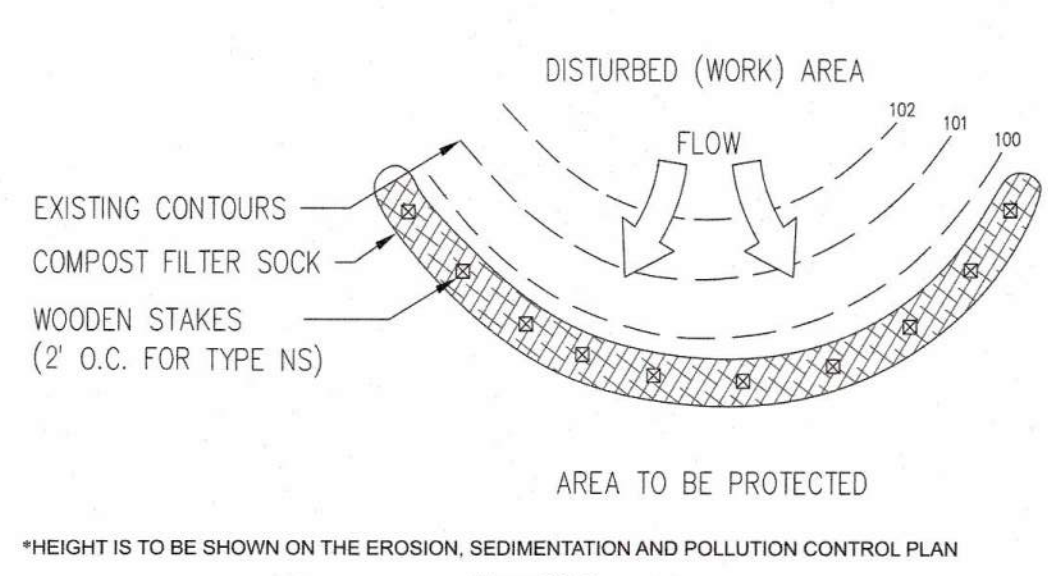
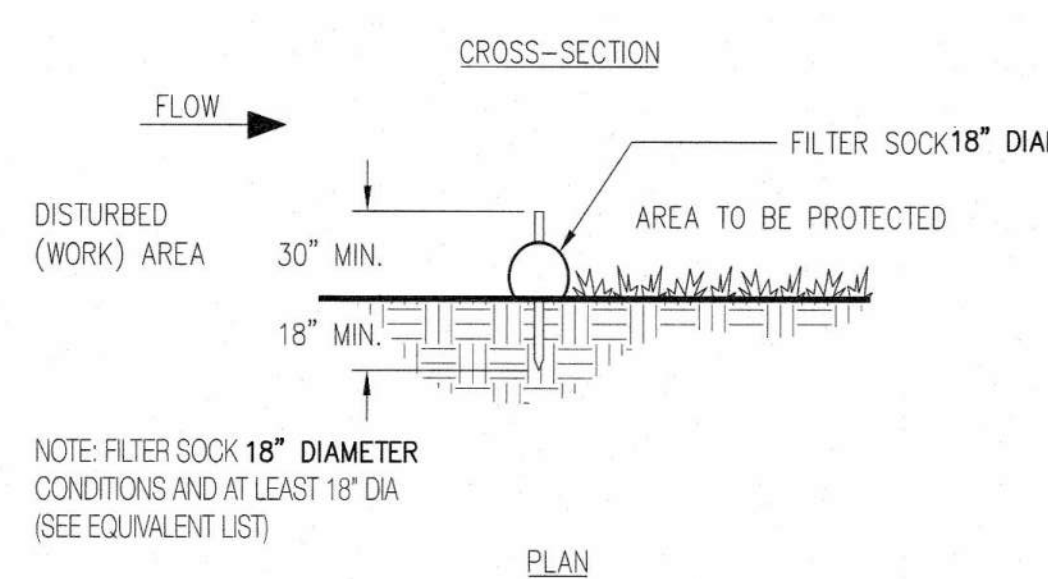


Figure 6-27.3

| Type | Min Length | Type of Post | Size of Post |
|------|------------|---------------------|--|
| NS | 4' | Soft wood Oak Steel | 2" dia. x 24" 1.5' x 1.5' 1.5lb./ft. min |
| S | 4' | Steel Oak | 1.15-1.25 lb./ft. min 2"x2" |

| Staples / Posts | Gauge | Crown | Legs | Width |
|-----------------|-------|-------|------|-------|
| Staples / Posts | 17 | 3/4" | 1/2" | 5/8" |
| Staples / Posts | 18 | 3/4" | 1/2" | 5/8" |
| Staples / Posts | 19 | 3/4" | 1/2" | 5/8" |

| Nails | Length | Head | Post |
|-------|---------|------|------|
| Nails | 14 min. | 1" | 3/4" |
| Nails | 14 min. | 1" | 3/4" |
| Nails | 14 min. | 1" | 3/4" |

Note: Filter Fabric may also be attached to the post by wire, cords, and pockets.

FASTENERS FOR SILT FENCES

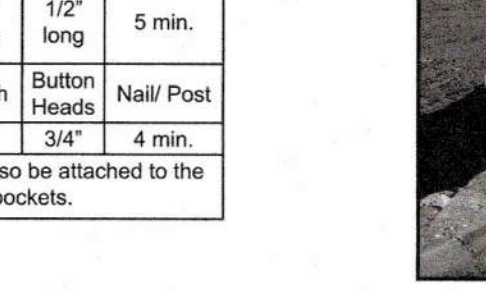
OVERLAP AT FABRIC ENDS

FRONT VIEW - NOT TO SCALE

FRONT VIEW - NOT TO SCALE

Figure 6-27.5

Inlet Sediment Trap Sd2



DEFINITION
A temporary protective device formed at or around an inlet to a storm drain to trap sediment.

PURPOSE
To prevent sediment from entering a storm drainage system prior to permanent stabilization of the disturbed area draining to the inlet.

CONDITIONS
All storm drain drop inlets that receive runoff from disturbed areas.

DESIGN CRITERIA
Through testing there are two different categories (high retention and high flow).

On unpaved areas where ponding will not cause a safety hazard, high retention shall be taken into account. If high retention is not used in this situation a rationale shall be given on the plan and an unapproved application should apply.

Sediment traps must be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than one acre.

If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also, a slope filter ring may be used on the up slope side of the inlet to slow runoff and filter larger soil particles. Refer to F-Form Storm Filter Ring.

Filter Fabric with Supporting Frame Sd2-F
This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 2%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. As shown in Figure 6-28.1, Type B silt fence supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be 36 inches tall and embedded 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together and a post to provide a continuous fabric barrier around the inlet.

Baffle Box Sd2-B
For inlets receiving runoff with a higher volume or velocity, a baffle box inlet sediment trap should be used. As shown in Figure 6-28.2, the baffle box shall be constructed of 2" x 4" boards spaced a maximum of 1 inch apart or of plywood with weep holes 2 inches in diameter. The weep holes shall be placed approximately 6 inches on center vertically and horizontally. Gravel shall be placed outside the box, all around the inlet, to a depth of 2 to 4 inches. The entire box is wrapped

Gravel Drop Inlet Protection Sd2-G
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.4, stone and gravel are used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Sod Inlet Protection Sd2-S
This method of inlet protection is applicable only in the time of permanent seeding, to protect the inlet from sediment and mulch material until permanent vegetation has become established. As shown in Figure 6-28.5, the sod shall be placed to form a mat covering the soil for

Block and Gravel Perspective Sd2-BG
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.3, a concrete block catch basin is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Curb Inlet Filter "Pigs in Blanket" Sd2-C
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.6, a concrete curb is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Equivalent Inlet Sediment Trap Sd2-E
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.7, a concrete curb is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Block and Gravel Section Sd2-BG
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.3, a concrete block catch basin is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

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SILT FENCE - SENSITIVE

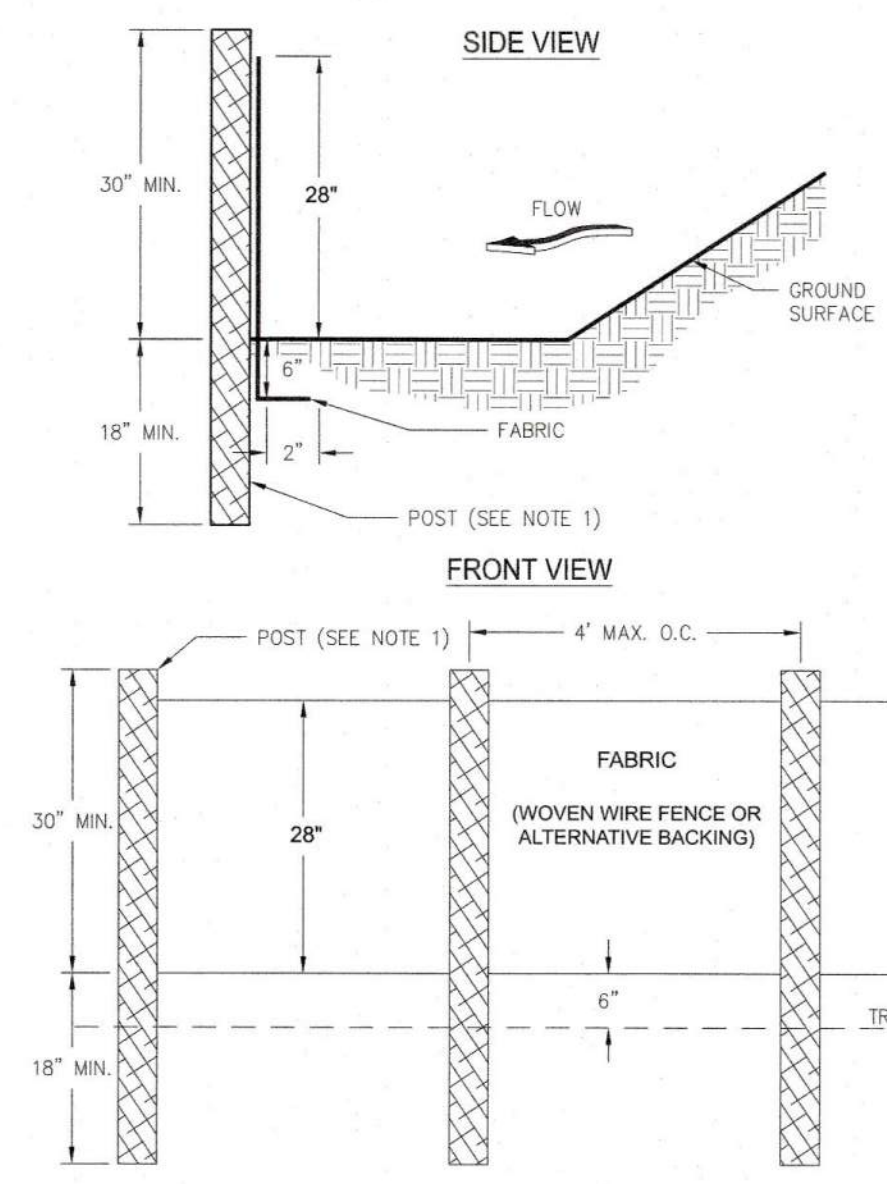


Figure 6-27.2

NOTES:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT (H) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION



Figure 6-28.1 - Fabric and Supporting Frame for Inlet Protection

NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOL.

Block and Gravel Perspective Sd2-BG
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.3, a concrete block catch basin is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Curb Inlet Protection Sd2-C
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.6, a concrete curb is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Gravel Drop Inlet Protection Sd2-G
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.4, stone and gravel are used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Sod Inlet Protection Sd2-S
This method of inlet protection is applicable only in the time of permanent seeding, to protect the inlet from sediment and mulch material until permanent vegetation has become established. As shown in Figure 6-28.5, the sod shall be placed to form a mat covering the soil for

Filter Fabric with Supporting Frame Sd2-F
This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 2%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. As shown in Figure 6-28.1, Type B silt fence supported by steel posts should be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be 36 inches tall and embedded 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together and a post to provide a continuous fabric barrier around the inlet.

Baffle Box Sd2-B
For inlets receiving runoff with a higher volume or velocity, a baffle box inlet sediment trap should be used. As shown in Figure 6-28.2, the baffle box shall be constructed of 2" x 4" boards spaced a maximum of 1 inch apart or of plywood with weep holes 2 inches in diameter. The weep holes shall be placed approximately 6 inches on center vertically and horizontally. Gravel shall be placed outside the box, all around the inlet, to a depth of 2 to 4 inches. The entire box is wrapped

Gravel Drop Inlet Protection Sd2-G
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.4, stone and gravel are used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Sod Inlet Protection Sd2-S
This method of inlet protection is applicable only in the time of permanent seeding, to protect the inlet from sediment and mulch material until permanent vegetation has become established. As shown in Figure 6-28.5, the sod shall be placed to form a mat covering the soil for

Block and Gravel Perspective Sd2-BG
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.3, a concrete block catch basin is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Curb Inlet Filter "Pigs in Blanket" Sd2-C
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.6, a concrete curb is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Equivalent Inlet Sediment Trap Sd2-E
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.7, a concrete curb is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet to prevent gravel from entering the inlet. On the slope toward the inlet, stone 3 inches in diameter and larger should be used. On the slope away from the inlet, 1/2 to 3/4 inch gravel (80% washed stone) should be used at a minimum thickness of 1 foot.

Block and Gravel Section Sd2-BG
This method of inlet protection is applicable where heavy concentrated flows are expected. As shown in Figure 6-28.3, a concrete block catch basin is used to trap sediment. The slope toward the inlet shall be no steeper than 3:1. A minimum 1 foot wide level stone area shall be left between the structure and around the inlet

Slope Stabilization Ss

DEFINITION
A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

PURPOSE
To provide a cover layer that stabilizes the soil and acts as a rain drop impact dissipater while providing a microclimate that protects young vegetation and promotes its establishment. If using slope stabilization to reinforce channels, please refer to specification, Ch-Channel Stabilization.

CONDITIONS
Slope stabilization can be applied to flat areas or slopes where the erosion hazard is high and slope protection is needed during the establishment period of vegetation.

PLANNING CONSIDERATIONS
Care must be taken to choose the type of slope stabilization product that is most appropriate for the specific needs of a project. Two general types of slope stabilization products are discussed within this specification.

Roller Erosion Control Products (RECP)
A natural fiber blanket with single or double photodegradable or biodegradable nets.

Hydraulic Erosion Control Products (HECP)
HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent that works to stabilize soil particles. Paper mulch should not be used for erosion control.

CRITERIA
Roller Erosion Control Products (RECPs) and Hydraulic Erosion Control Products (HECPs):
• Installation and stapling of RECPs and application rates for the HECPs shall conform to manufacturer's guidelines for application.
• Short-Term RECPs as a minimum shall be used to stabilize concentrated flow areas with a velocity less than 5ft/sec on slopes 3:1 or greater with a height of 10 feet or greater.

Materials - RECP
Hydraulic erosion control products shall be prepackaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed. Fibrous components should be all natural or biodegradable.

Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012.

Materials - RECP
Blankets shall be non-toxic to vegetation, seed, or wildlife. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012. At minimum, the plastic or biodegradable netting shall be attached to the fibrous matrix to maximize strength and provide for ease of handling.

RECPs are categorized as follows:

a. Short-Term
(functional longevity 12 mo.)

i. Photodegradable
Straw blankets with a top and bottom side photo-degradable net. The maximum size of the mesh should be openings of 7/8" X 3/4". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.

c. Long-Term
(functional longevity 36 mo.)

i. Photodegradable
Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 1.5' centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.

ii. Biodegradable
Blankets that consist of 100% coconut with a top and bottom side biodegradable net. Each net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 1.5' centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.

twisted together and then interwoven with cross direction strands (ieno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

b. Extended-Term
(functional longevity 24 mo.)

i. Photodegradable
Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.6 lbs per square yard.

ii. Biodegradable
Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegradable net. The top net should have ultraviolet additives to delay breakdown. The maximum size of the mesh should be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5' centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

iii. Maintenance
All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, re-install the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

iv. Maintenance
All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, re-install the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

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TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

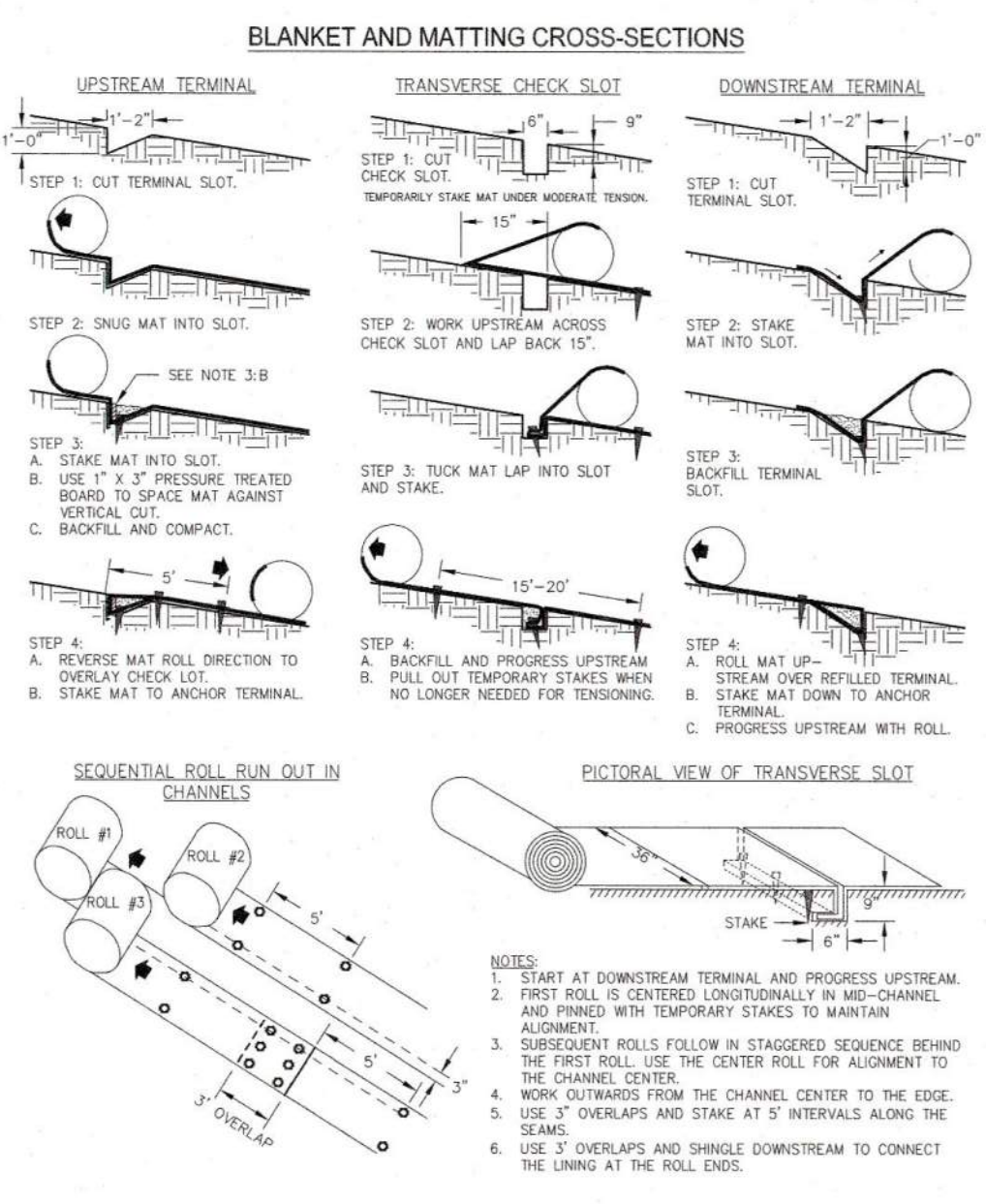


Figure 6-18.1 - Typical Installation Guidelines for Matting and Blankets

Storm Drain Outlet Protection St



DEFINITION
Prevent and/or riprapped channel sections, placed below storm drain outlets.

PURPOSE
To reduce velocity of flow before entering receiving channels below storm drain outlets.

CONDITIONS
This standard applies to all storm drain outlets, road culverts, paved channel outlets, etc., discharging into natural or constructed channels. Analysis and/or treatment will extend from the point of entry into an existing stream or publicly maintained drainage system.

DESIGN CRITERIA
Structurally lined aprons at the outlets of pipes and paved channel sections shall be designed according to the following criteria:

Capacity
Peak stormflow from the 25-year, 24-hour frequency storm or the storm specified in Title 12-7-1 of the Official Code of Georgia Annotated or the design discharge of the water conveyance structure, whichever is greater.

Tailwater Depth
The depth of tailwater immediately below the pipe outlet must be determined for the design capacity of the pipe. Manning's Equation may be used to determine tailwater depth. If the tailwater depth is less than half the diameter of the outlet pipe, it shall be classified as a Minimum Tailwater Condition. If the tailwater depth is greater than half the pipe diameter, it shall be classified as a

Minimum Tailwater Condition. Pipes that outlet onto flat areas with no defined channel may be assumed to have a Minimum Tailwater Condition.

Apron Length and Thickness
The apron length and d_{50} stone median size, shall be determined from the curves according to tailwater condition.

Apron Width
If the pipe discharges directly into a well-defined channel, the apron shall extend across the channel bottom and up the channel banks to an elevation one foot above the maximum tailwater depth or to the top of the bank (whichever is less). If the pipe discharges onto a flat area with no defined channel, the width of the apron shall be determined as follows:

a. The upstream end of the apron, adjacent to the pipe, shall have a width three times the diameter of the outlet pipe.
 b. For a Minimum Tailwater Condition, the downstream end of the apron shall have a width equal to the pipe diameter plus the length of the apron. Refer to Figure 6-34.1.
 c. For a Maximum Tailwater Condition, the downstream end shall have a width equal to the pipe diameter plus 4 times the length of the apron. Refer to Figure 6-34.2.

Bottom Grade
The apron shall be constructed with no slope along its length (0.0% grade). The invert elevation of the downstream end of the apron shall be equal to the elevation of the invert of the receiving channel, whichever is greater.

Side Slope
If the pipe discharges into a well-defined channel, the side slopes of the channel shall not be steeper than 2:1.

Materials
The apron may be lined with riprap, graded riprap, or concrete. The median sized stone for riprap, d_{50} , shall be determined from the curves, Figures 6-34.1 and 6-34.2, according to the tailwater condition. The gradation, quality and placement of riprap shall conform to Appendix C.

Refer to Figure 6-34.4, for alternative structures to achieving energy dissipation at an outlet. For information regarding the selection and design of these alternative energy dissipators, refer to:
 FHWA Standard (REF: Hydraulic Design of Energy Dissipators for Culverts and Channels, HEC No. 14, FHWA, Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20540.

CONSTRUCTION SPECIFICATIONS

1. Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on which the riprap will be placed shall be filled by increasing the riprap thickness.

2. The riprap and gravel filter must conform to the specified grading limits shown on the plans.

3. Geotextile must meet design requirements and be properly protected from punching or tearing during installation. Repair any damage by removing the riprap and placing another piece of filter fabric over the damaged area. All connecting joints should overlap a

minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.

4. Riprap may be placed by equipment, but take care to avoid damaging the filter.

5. The minimum thickness of the riprap should be 1.5 times the maximum stone diameter.

6. Construct the apron on zero grade with no overfill at the ends. Make the top of the apron at the downstream end level with the receiving area or slightly higher adjacent to the subgrade without any voids.

7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper section of the apron.

8. Immediately after construction, stabilize all disturbed areas with vegetation.

9. Stone quality - Select stone for riprap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.

10. Filter - install a filter to prevent soil movement through the openings in the riprap. The filter should consist of a graded gravel layer or a synthetic filter cloth. See Appendix C, p. C-1.

MAINTENANCE
Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

CONSTRUCTION SPECIFICATIONS

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minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.

4. Riprap may be placed by equipment, but take care to avoid damaging the filter.

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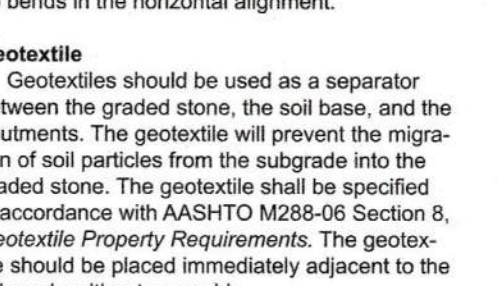
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Surface Roughening Su



DEFINITION
Providing a rough soil surface with horizontal depressions created by operating a tillage or other suitable implement on the contour by leaving slopes in a roughened condition by not fine-grading them.

PURPOSE
The purpose of surface roughening is to aid in establishment of vegetative cover with seed, to reduce runoff velocity and increase infiltration, reduce erosion and provide for sediment trapping.

CONDITIONS
All slopes steeper than 3:1 require surface roughening, either stall-step grading, grooving, furrowing, or tracking if they are to be stabilized with vegetation. However, if the slope is to be stabilized with erosion control blankets or soil reinforcement matting, the soil surface should not be roughened.

Areas with grades less steep than 3:1 should have the soil surface lightly roughened and loosened to a depth of 2 to 4 inches prior to seeding. Areas that have been graded and will not be stabilized immediately may be roughened to reduce runoff velocity until seeding takes place. Slopes with a stable rock face do not require roughening or stabilization.

DESIGN CRITERIA
Graded areas with smooth, hard surfaces give a false impression of "finished grading" and a job well done. It is difficult to establish vegetation on such surfaces due to reduced water infiltration and the potential for erosion. Rough

soil surfaces with uneven soil and rocks left in place may appear unattractive or unfinishing at first, but encourage water infiltration, speed up the establishment of vegetation, and decrease runoff velocity. Rough, loose soil surfaces give time, fertilizer and seed some natural coverage. Niches in the surface provide microclimates that generally provide a cooler and more favorable moisture level than flat surfaces. This aids seed germination.

There are different methods of achieving a roughened soil surface on a slope, and the selection of an appropriate method depends upon the type of slope. Roughening methods include stall-step grading, grooving, and tracking. Factors to be considered in choosing a method are slope steepness, mowing requirements, and whether the slope is formed by cutting or filling.

1. Disturbed areas that will not require mowing may be stall-step graded, grooved, or left rough after filling.

2. Stall-step grading is particularly appropriate in soils containing large amounts of soft rock. Each "step" catches material that sloughs from above, and provides a level site where vegetation can become established.

3. Areas that will be mowed (these areas should have slopes less steep than 3:1) may have small furrows left by discing, harrowing, raking, or seed planting machinery operating on the contour.

4. It is important to avoid excessive compaction of the soil surface when scarifying. Tracking with bulldozers tends to be preferable to not roughening at all, but it is not as effective as other forms of roughening, as the soil surface is severely compacted and runoff is increased.

CONSTRUCTION SPECIFICATIONS

Cut Slopes Steeper than 3:1
Cut slopes with a gradient steeper than 3:1 should not be mowed. They shall be stall-step graded or grooved (see Figure 6-35.1.)

1. Stall-step grading may be carried out on any material soft enough to be ripped with a bulldozer. Slopes consisting of soft rock with some subsoil are particularly suited to stall-step grading.

CONSTRUCTION SPECIFICATIONS

1. Application rates shall conform to manufacturer's guidelines for application.

•Application rates shall conform to manufacturer's guidelines for application.

•Organic material must be derived from natural plant sources.

•Not harmful to plants, animals and aquatic life.

•Not harmful to plants, animals and aquatic life.

•Not harmful to plants, animals and aquatic life.

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DRAWINGS SCHEDULE

| No. | Date | Description |
|-----|-------|---|
| 11 | 08/17 | LDP - South Trail - City Council #1 |
| 12 | 08/17 | LDP - South Trail - City Council #1 |
| 13 | 10/13 | LDP - Pool Parking - City Council #1 |
| 14 | 10/16 | LDP - Mainway Area Park Change #1 |
| 15 | 10/19 | LDP - Mainway Area Park - Professional Review |
| 16 | 11/18 | LDP - Pool Parking - City Council #1 |
| 17 | 11/20 | LDP - Community Center - City Council #1 |
| 18 | 11/20 | LDP - Mainway Area - City Council #1 |
| 19 | 11/20 | NORTH/CENTRAL/DEERBROOK/DEERBROOK |
| 20 | 12/01 | Mainway Trail and Deck - Professional Review #1 |
| 21 | 12/01 | Mainway Trail and Deck - Professional Review #1 |
| 22 | 12/01 | LDP - Mainway Area - Professional Review |
| 23 | 01/11 | COMMUNITY GREEN BUILDING REPORT #1 |
| 24 | 02/04 | ERWCC Submittal #1 |
| 25 | 02/11 | NORTH/CENTRAL/DEERBROOK/DEERBROOK |
| 26 | 03/05 | ERWCC Submittal #1 |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

| DATE | DRAWN | CHECKED |
|----------|-------|---------|
| 03/03/21 | GZ | MC |

SHEET TITLE
EROSION CONTROL DETAILS V

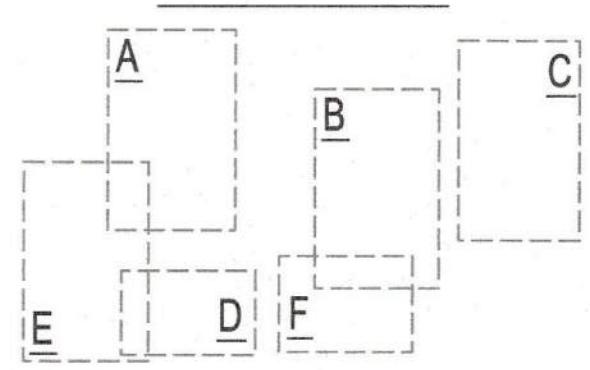
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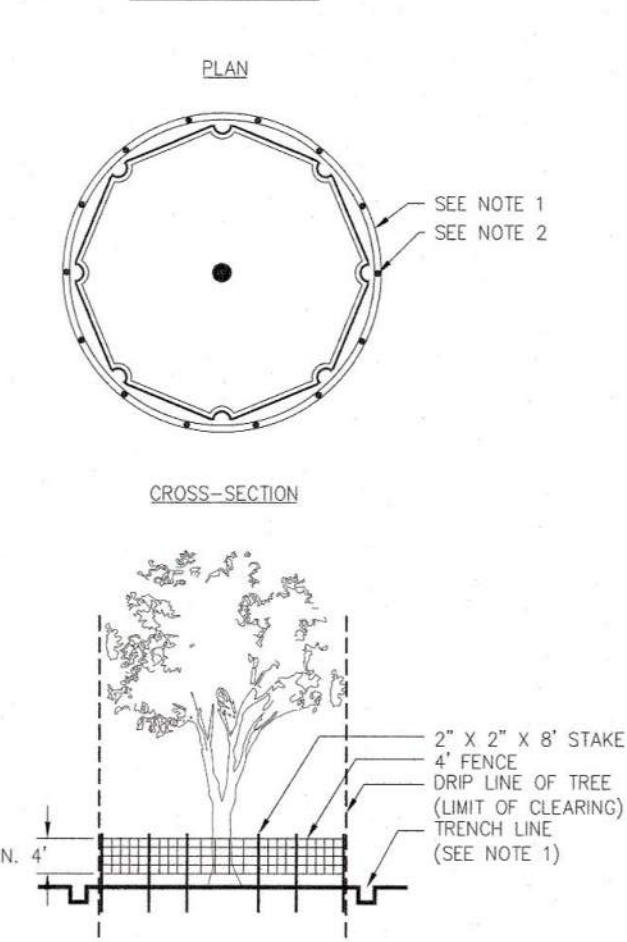
APPROVED PLAN 08/16/2021
Permit # LDP-20-00020

SHEET KEY



TREE PROTECTION

"SNOW" FENCE



- NOTES:**
- USE TRENCHER (I.E. BOTH WHICH) TO CUT A 4"-5" X 8" X 18" D TRENCH ALONG DRP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
 - SPACE STAKES AT 10' INTERVALS SUFFICIENT TO MAINTAIN 1' TOLERANCE OUT OF DRP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REAR END NOT TO BE USED FOR STAKES).
 - MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 - DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
 - FENCE SHALL BE GRADE VINYL "SNOW FENCE" 4" HIGH MINIMUM.

Figure 6-3.1

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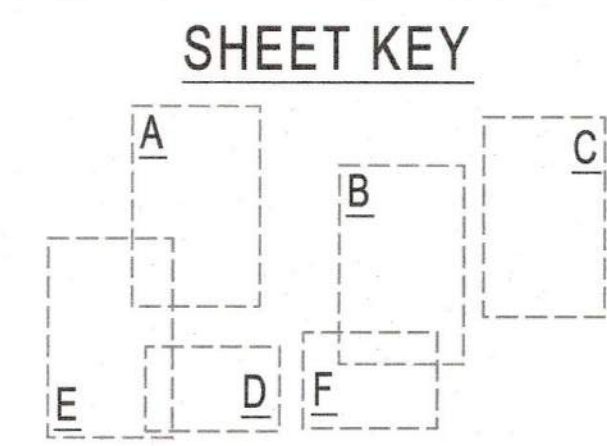
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| No. | Date | Description |
|-----|-------|---|
| 11 | 08/17 | LDP - South Trail - City Council #1 |
| 12 | 08/17 | LDP - South Trail - City Council #1 |
| 13 | 10/13 | LDP - Pool Parking - City Council #1 |
| 14 | 10/16 | LDP - Nature Play Area Final Change #1 |
| 15 | 10/19 | Final Plan for Park - Professional Review |
| 16 | 11/18 | LDP - Pool Parking - City Council #1 |
| 17 | 11/20 | LDP - Community Street - City Council #1 |
| 18 | 11/20 | LDP - Henshew - City Council #1 |
| 19 | 11/20 | NORTH BROADWAY DESIGN/UPDATE |
| 20 | 12/01 | Multi-use Trail on Dam - Preliminary Concept #1 |
| 21 | 12/11 | Multi-use Trail on Dam - Preliminary Concept #1 |
| 22 | 1/20 | Final Review |
| 23 | 01/11 | COMMUNITY GREEN - BUILDING PERMIT #1 |
| 24 | 03/04 | EROSION CONTROL |
| 25 | 02/11 | NORTH BROADWAY DESIGN/UPDATE |
| 26 | 03/03 | EROSION CONTROL |



CITY OF BROOKHAVEN
MURPHEY CANDLER PARK
1551 W. NANCY CREEK DRIVE NE
BROOKHAVEN, GEORGIA 30319

| | | |
|----------|----------------------------|---------|
| DATE | DRAWN | CHECKED |
| 03/03/21 | GZ | MC |
| SCALE | SHEET TITLE | |
| | EROSION CONTROL DETAILS VI | |

| | |
|----------------|-------------|
| PROJECT NUMBER | 15092.00 |
| DRAWING NUMBER | C7.7F |
| APPROVED PLAN | 08/16/2021 |
| Permit # | LDP20-00020 |

Rock Filter Dam (Rd)



DEFINITION
A temporary stone filter dam installed across drainageways or in conjunction with a temporary sediment trap.

PURPOSE
This structure is installed to serve as a sediment filtering device in drainageways or outlets for sediment traps (See Temporary Sediment Trap - Sd4). In some cases, it may also reduce the velocity of stormwater flow through a drainage structure. This structure is not intended to substantially impound water.

CONDITIONS
This practice is applicable for use in small channels that drain 50 acres or less. The rock filter dam must be used in conjunction with other appropriate sediment control measures to reduce the amount of sediment leaving the channel.

DESIGN CRITERIA
The following standards shall be followed:

Drainage Area
The drainage area to the dam shall not exceed 50 acres.

Height
The dam should not be higher than the channel banks or exceed the elevation of the stream property line. The center of the rock dam should be at least nine inches lower than the outer edges of the dam at the channel banks.

Side Slopes
The side slopes shall be 2:1 or flatter.

Location
The dam shall be located as close to the source of sediment as possible and so that it will not cause water to back up on upstream adjacent property or into state waters.

Stone Size
The stone size shall be determined by the design criteria established in Riprap - Appendix C. The rock dam can be faced with smaller stone on the upstream side for additional filtering effect. However, this may make the dam more prone to clogging.

Top Width
The width across the top of the dam should be no less than six feet.

Geotextile
Geotextiles should be used as a separator between the graded stone, the soil base, and the abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be specified in accordance with AASHTO M288-06 Section 6, Geotextile Property Requirements. The geotextile should be placed immediately adjacent to the subgrade without any voids and extend five feet beyond the downstream toe of the dam to prevent scour.

CONSTRUCTION SPECIFICATIONS
Mechanical or hand placement will be required to ensure that the rock dam extends completely across the channel and securely ties into both channel banks. The center of the dam must be no less than nine inches lower than the lowest side, to serve as a type of weir. Gabions can be installed to serve as rock filter dams, but should follow recommended sizing and installation specifications. Refer to specification Ga - Gabion. See Figure 6-24.1

MAINTENANCE
Rock dams should be removed once disturbed areas have been stabilized. Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one-half of the original height of the dam.

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

1. Figure 6-24.1, noting rock size as specified in Appendix C.

2. Top and bottom widths.

ROCK FILTER DAM

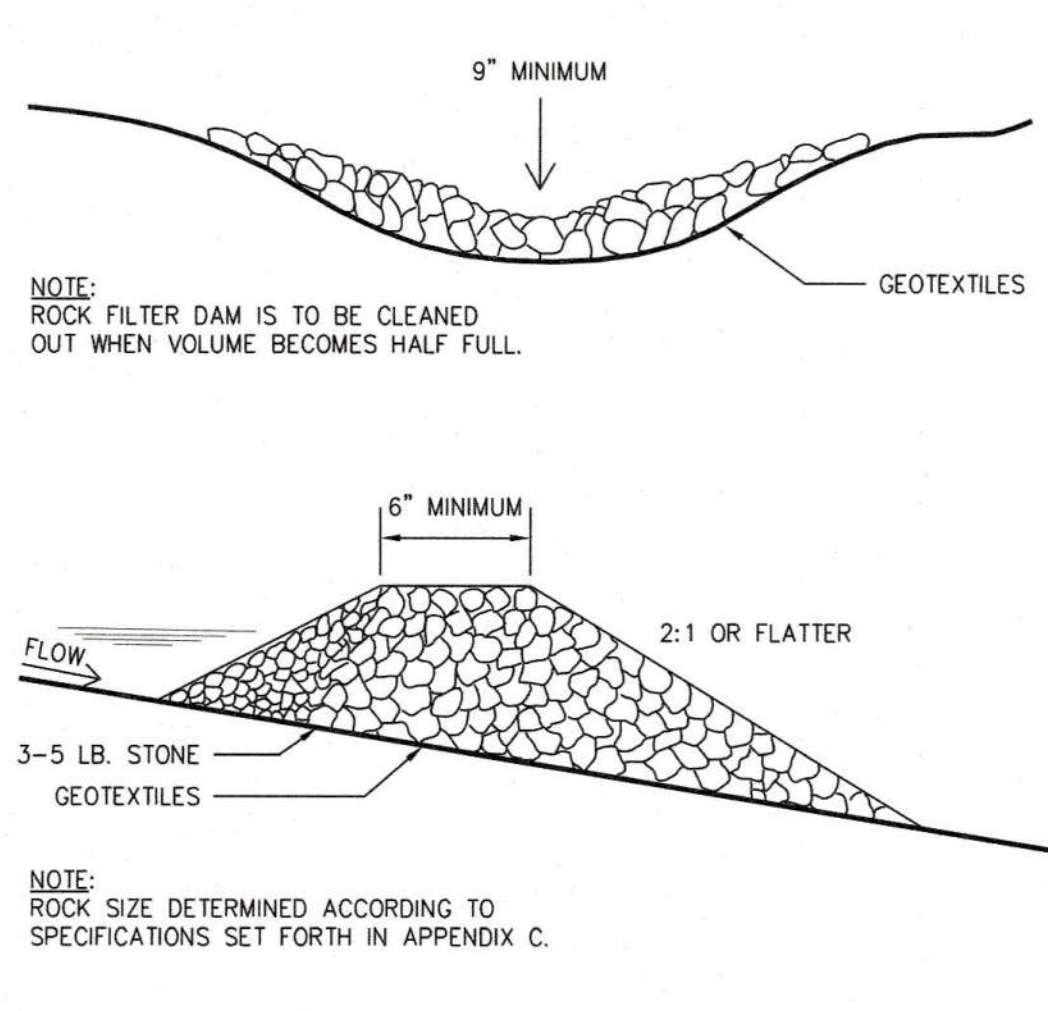


Figure 6-24.1

riprap stone sizes and filter bedding stone sizes.

N.S.A. Graded riprap stone sizes are shown in Table C-1.

N.S.A. Filter bedding stone sizes are shown in Table C-1 and C-2.

D.O.T. Graded riprap stone sizes are shown in Table C-3.

D.O.T. Filter bedding stone sizes are shown in Table C-4.

Data for stone center waterways are shown in Table C-5 and Figure C-3.

| Flow Velocity (ft./sec.) | N.S.A. No.1 | Size Inches (Sq. Opening) Avg.2 | | | Filter Stone N.S.A. No.1 |
|--------------------------|-------------|---------------------------------|-------|-------|--------------------------|
| | | Max. | Min. | No. 8 | |
| 2.5 | R-1 | 1 1/2 | 3/4 | | FS-1 |
| 4.5 | R-2 | 4 | 1 1/2 | 1 | FS-1 |
| 6.5 | R-3 | 4 | 3 | 2 | FS-2 |
| 9.0 | R-4 | 12 | 6 | 3 | FS-2 |
| 11.5 | R-5 | 18 | 9 | 5 | FS-2 |
| 13.0 | R-6 | 24 | 12 | 7 | FS-3 |
| 14.5 | R-7 | 30 | 15 | 12 | FS-3 |

1 National Stone Association

2 At least 50% of the individual stone particles must be equal or larger than the listed size

FOR USE ON COMMUNITY GREEN PROJECT PHASE

Temporary Sediment Trap (Sd4)



DEFINITION
A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.

PURPOSE
To collect and store sediment from uphill sites cleared or graded during construction. Intended for use on small tributary areas with no unusual drainage features. Effective against coarse sediment, but not against silt or clay particles that remain suspended.

CONDITIONS
Temporary sediment traps are constructed early in the construction process at locations that will require minimal clearing and grading. Natural draws or swells are favorable locations to build the traps. They should be easily accessible for frequent maintenance and inspections. Temporary sediment traps shall never be placed in live streams.

DESIGN CRITERIA
Design and construction shall comply with laws, ordinances, rules and regulations on the local, state and federal level.

The total drainage area of a temporary sediment trap is up to 5 acres, depending on type of construction.

The height of a temporary sediment trap embankment shall not exceed 5.5 feet as measured from the downstream toe of slope to the top of the berm. Top width of an embankment shall be

at least as wide as the height of the sediment trap embankment, with a minimum width of 3 feet.

Maximum pond depth of a sediment trap is 4 feet as measured from the bottom of the trap to the invert of the emergency spillway. Slopes shall not exceed 2:1 (H:V) for excavated areas and for compacted embankments. Side slopes should be (3:1) or flatter allowing people and equipment to safely negotiate slopes or to enter the sediment trap.

The length to width ratio must be greater than (2:1) (L:W) for the principal flowpaths in order to maximize residence time of stormwater within the sediment trap. Baffles may be required to prevent short-circuiting of the flow.

A typical baffle design uses 4"x8" sheets of exterior grade plywood 1/2 inch thick, mounted on 4"x4" hardwood posts.

Volume
Minimum volume of a temporary sediment trap shall be 67 cubic yards per acre for the total drainage area. The volume shall be measured at an elevation equivalent to the spillway invert.

Volume of a temporary sediment trap in heavily disturbed areas should be 154 cubic yards per acre for the total drainage area. This includes an upper area with a minimum of 67 cubic yards per acre drained, which is dewatered using one of the outlet design methods provided, and a lower wet zone for sediment storage and setting.

The volume should be calculated from existing and proposed contours, or by measured cross sections. An approximate method for calculating the volume of traps using a natural draw is:

$V = 0.4 \times A \times D$
V = Sediment storage volume (below invert of emergency spillway)
A = Surface area (at level of emergency spillway)
D = Maximum depth (from emergency spillway invert)

The cleanout volume for a temporary sediment trap is 1/3 of the total storage volume. Cleanout volume shall be calculated and marked with a stake at the outlet of the trap.

CONSTRUCTION SPECIFICATIONS

The basic design guidelines are applicable to the type of temporary sediment trap constructed. The main differences are with regards to the type of outlet structures. The following types of construction are acceptable under the designated conditions:

Overflow (Sd4-A)
An overflow temporary sediment trap is limited to small areas less than 1 acre, typically with gentle slopes (1 or 2 percent) and without major grading operations. The maximum life span of an overflow trap is 6 months. If water enters the trap with very low velocities, the same amount of water will be slowly displaced and leave the other end of the sediment trap. Silt fence, straw bale barriers or grass filter strips are used to "polish" the overflow water as it leaves the sediment trap. See Figure 6-30.1

Combination Straw Bale and Silt Fence Outlet (Sd4-B)
The combination outlet uses straw bales and silt fence to dewater the sediment trap. Proper installation and staking of the straw bales, and wire backing on the silt fence are required for the materials to resist 1 foot or more of ponded water. The combination straw bale and silt fence outlet is limited to 1 acre total drainage area, and has a life span of less than 1 year. This type of outlet requires frequent maintenance and adjustments to ensure the released stormwater is free from sediment. See Figure 6-30.2

Rock Outlet (Sd4-C)
The rock outlet relies on filtering through layers of aggregate, rock or riprap material to dewater the sediment trap. It is the sturdiest of the sediment trap designs and generally requires less maintenance. It can be used for drainage areas up to 5 acres and has a life span of 1 year. See Figure 6-30.3

Emergency Spillway
The emergency overflow outlet of a temporary sediment trap must be stabilized with rock, geotextile, vegetation, or another suitable material that is resistant to erosion. It must be installed to safely convey stormwater runoff for the 10-year storm event.

TEMPORARY SEDIMENT TRAP

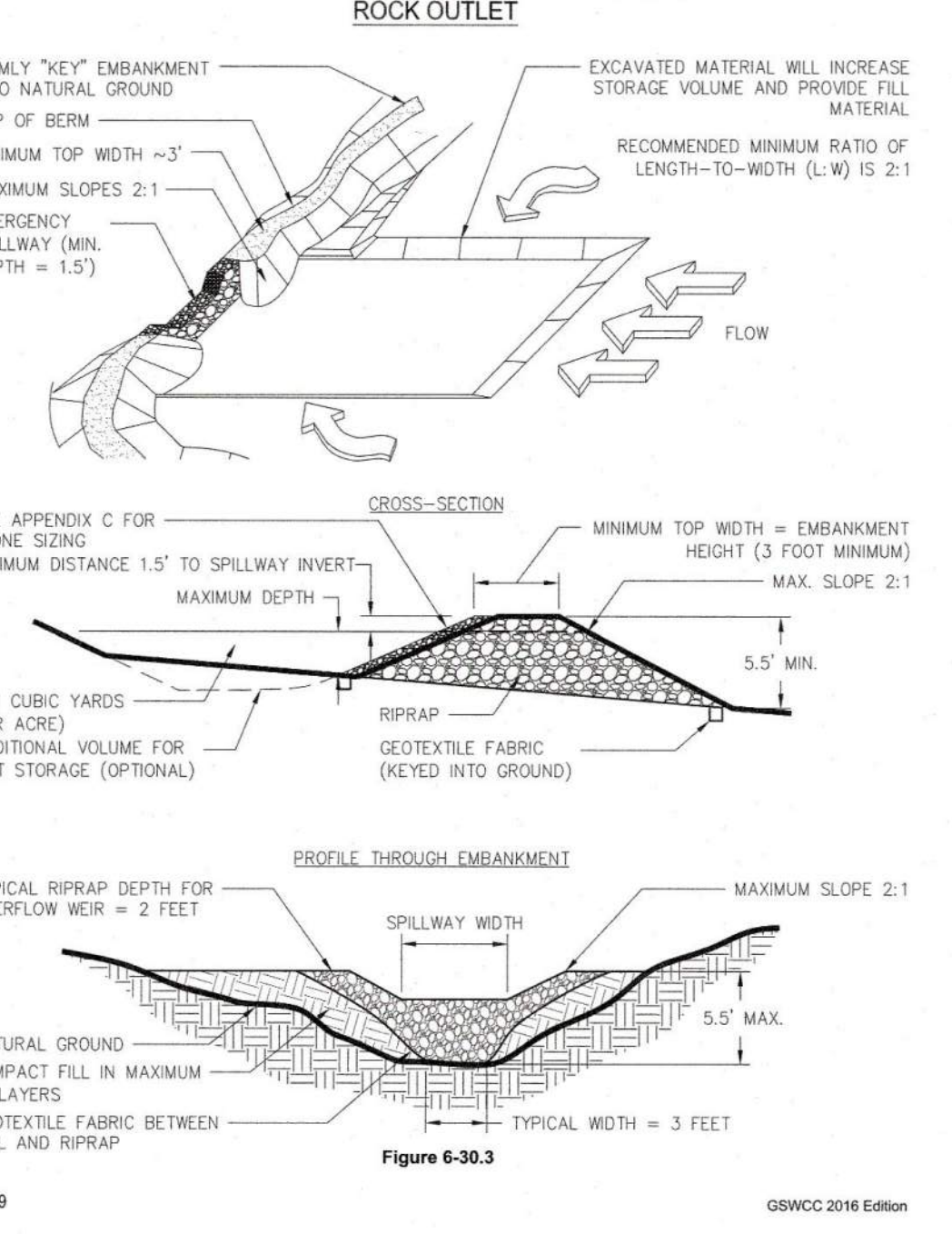
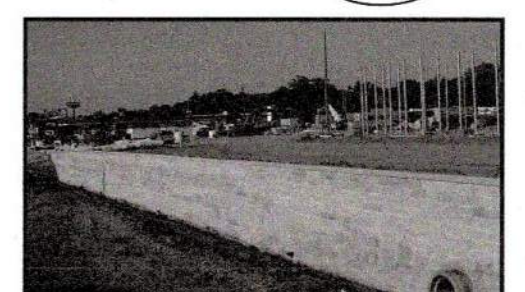


Figure 6-30.3

Retaining Wall (Re)



DEFINITION
A wall constructed of one or more of the following: concrete masonry, reinforced concrete cribbing, treated timbers, steel pilings, gabions, stone drywall, rock riprap, etc.

PURPOSE
To assist in the stabilization of cut or fill slopes where stable slopes are not attainable without the use of the wall.

CONDITIONS
Use in conjunction with cut or fill slopes that, because of space limitations or unstable material, do not allow the stable slope criteria listed above, e.g. cuts into steep hillsides on small lots or cuts into hillsides behind shopping centers to provide loading space.

DESIGN CRITERIA
General
The design of a retaining wall is a complicated process. Many factors must be taken into account such as: stresses and forces outside and within the wall; allowable height and minimum thickness. Other considerations are: foundation design with respect to loading, bearing values of soil and footing dimensions. Additional design factors are safety hazards, subsurface and surface drainage and appearance.

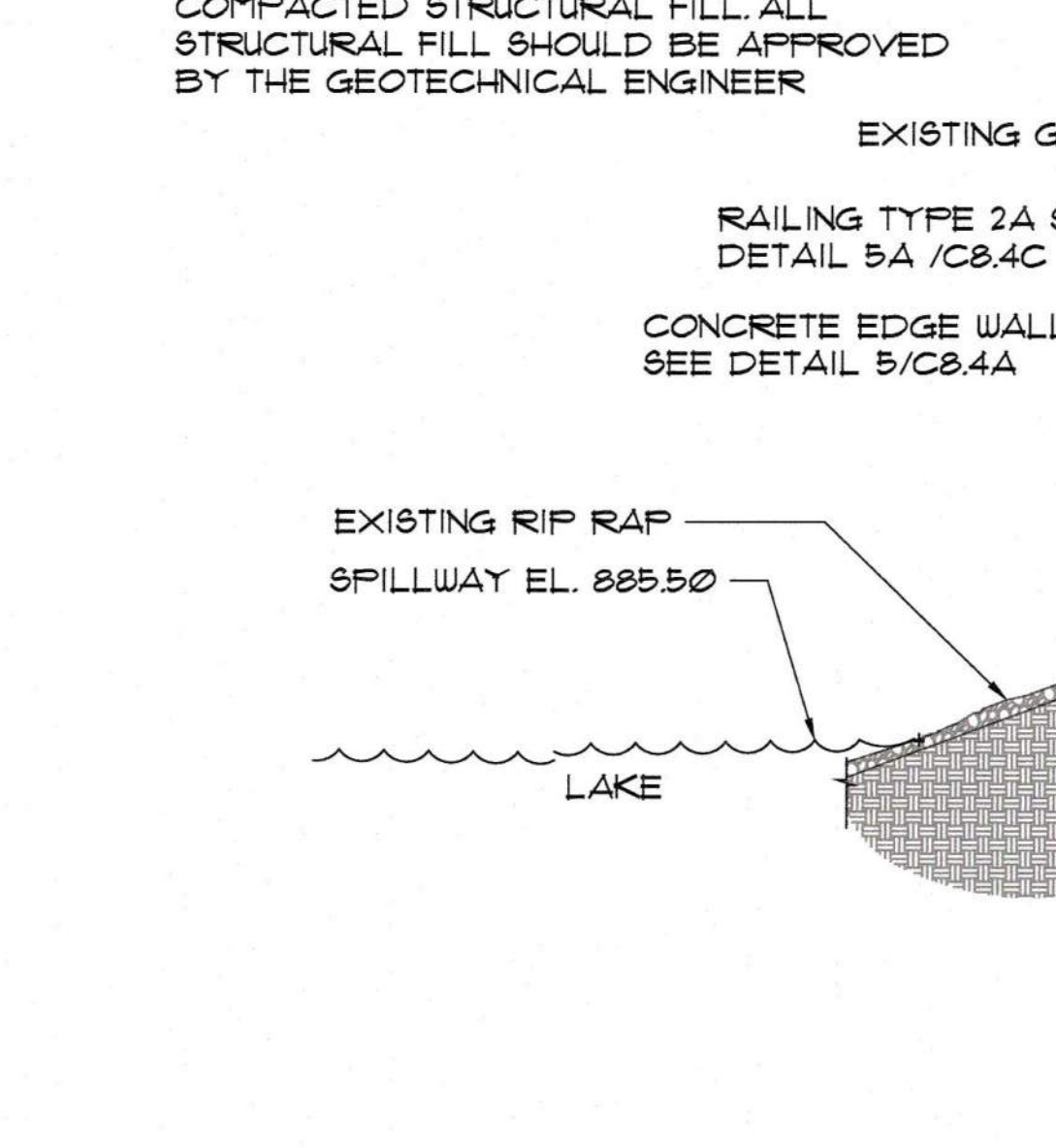
Each situation requires a specific design that is within the capabilities of the design professional.

Consideration should be given to all of the alternative methods with regard to construction of the

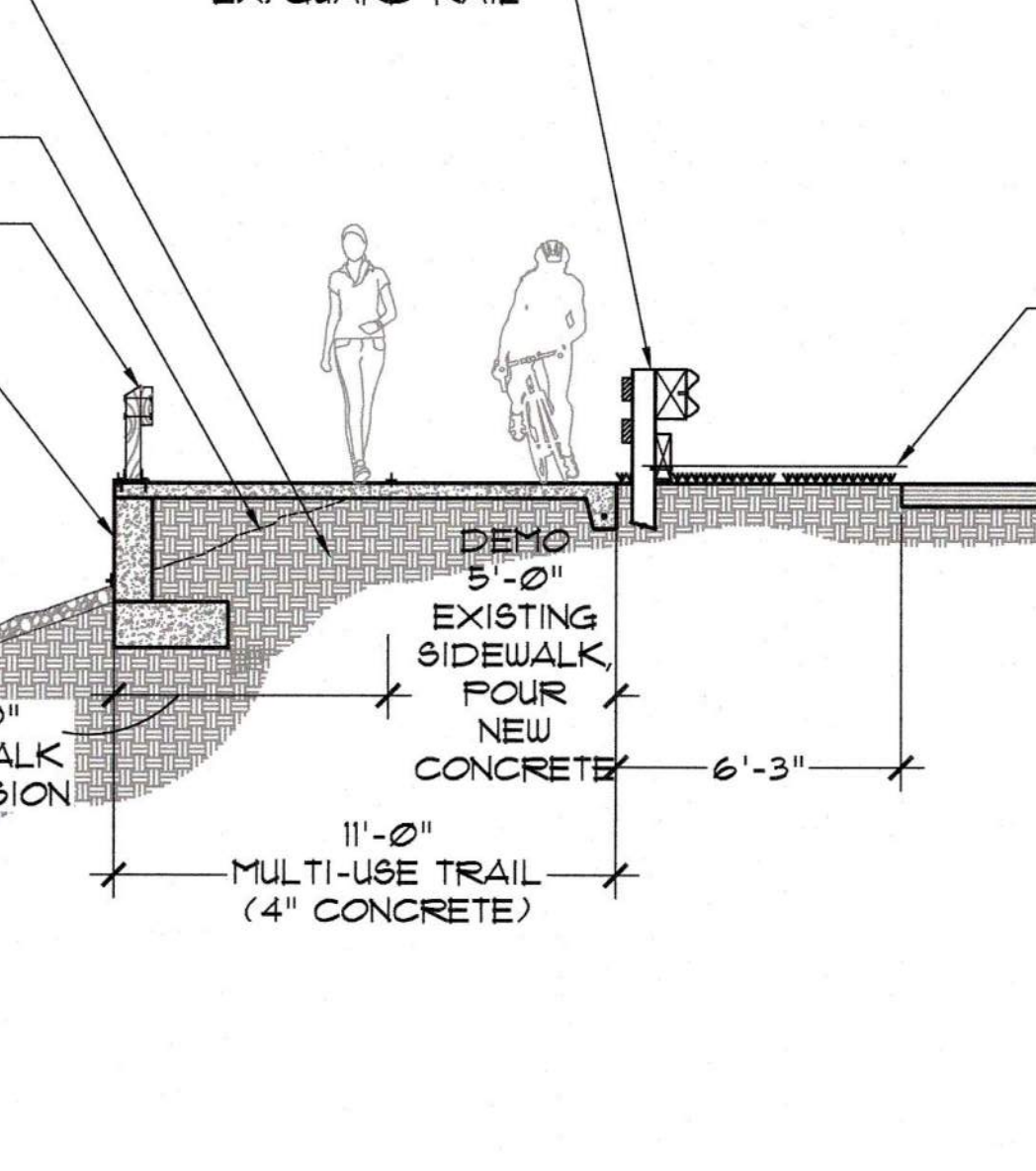
wall. Some methods are:

1. Concrete masonry
2. Concrete cribbing
3. Gabions
4. Steel piling
5. Stone drywall
6. Rock riprap, etc.
7. Treated timbers
8. Geotextile wrapped-face wall
9. Geotextile reinforced steep slopes

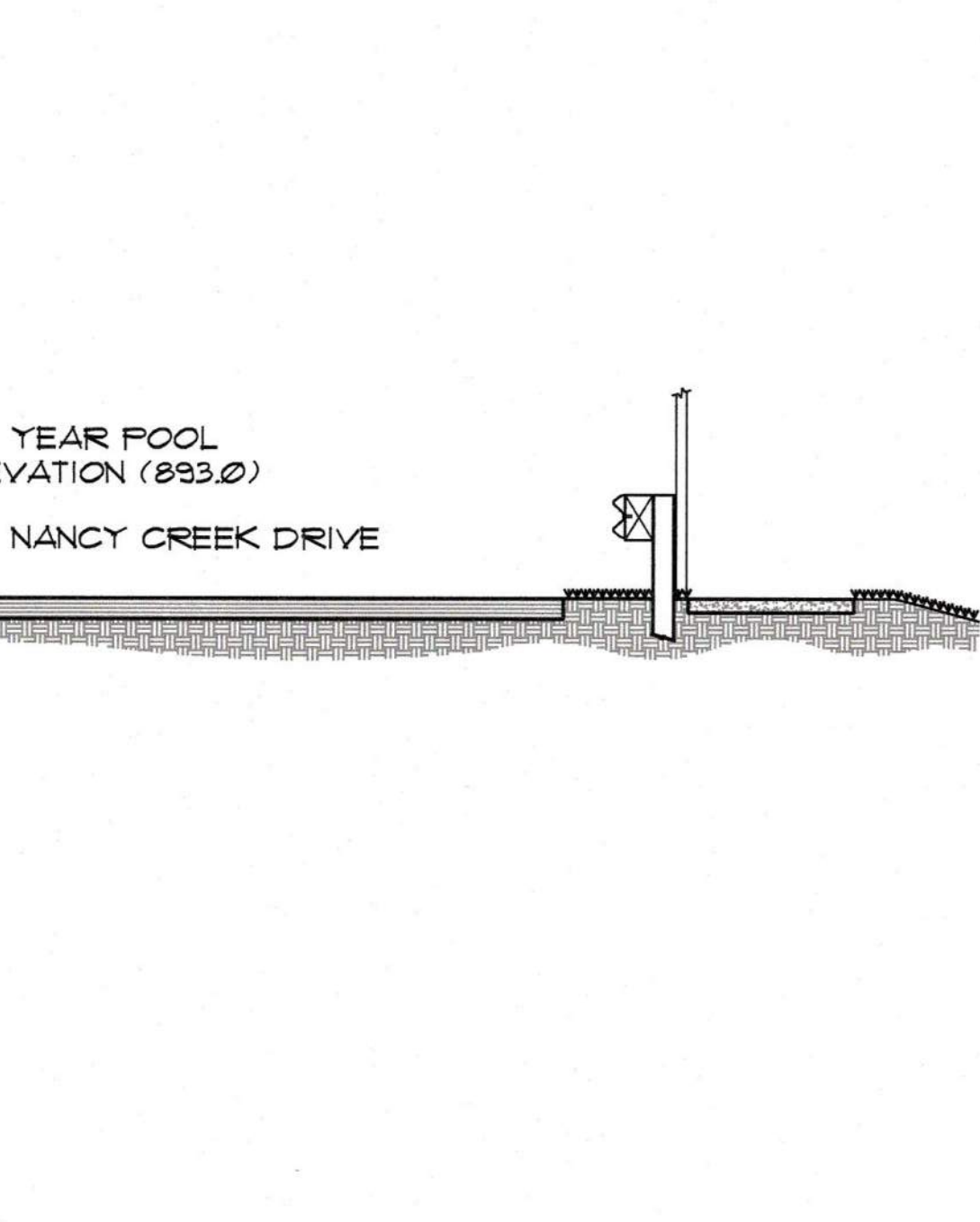
REMOVE RIPRAP AND REPLACE WITH COMPACTED STRUCTURAL FILL. ALL STRUCTURAL FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER



TYPICAL RETAINING WALL SECTION DAM MULTIUSE TRAIL



TYPICAL RETAINING WALL SECTION COMMUNITY GREEN



GSWCC 2016 Edition 6-127

GSWCC 2016 Edition 6-189

GSWCC 2016 Edition 6-128

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NOTE:
THE WRESTED VEGETATION AND BBS CONTOUR WERE SURVEYED IN BY TERRAMARK ON FEB. 4, 2021

*NOT FOR CONSTRUCTION, USE FOR EXAMPLE REFERENCE ONLY. SEE ACTUAL STRUCTURAL DETAIL FOR EXACT DIMENSIONS

*NOT FOR CONSTRUCTION, USE FOR EXAMPLE REFERENCE ONLY. SEE ACTUAL STRUCTURAL DETAIL FOR EXACT DIMENSIONS