



VICINITY MAP
N.T.S.



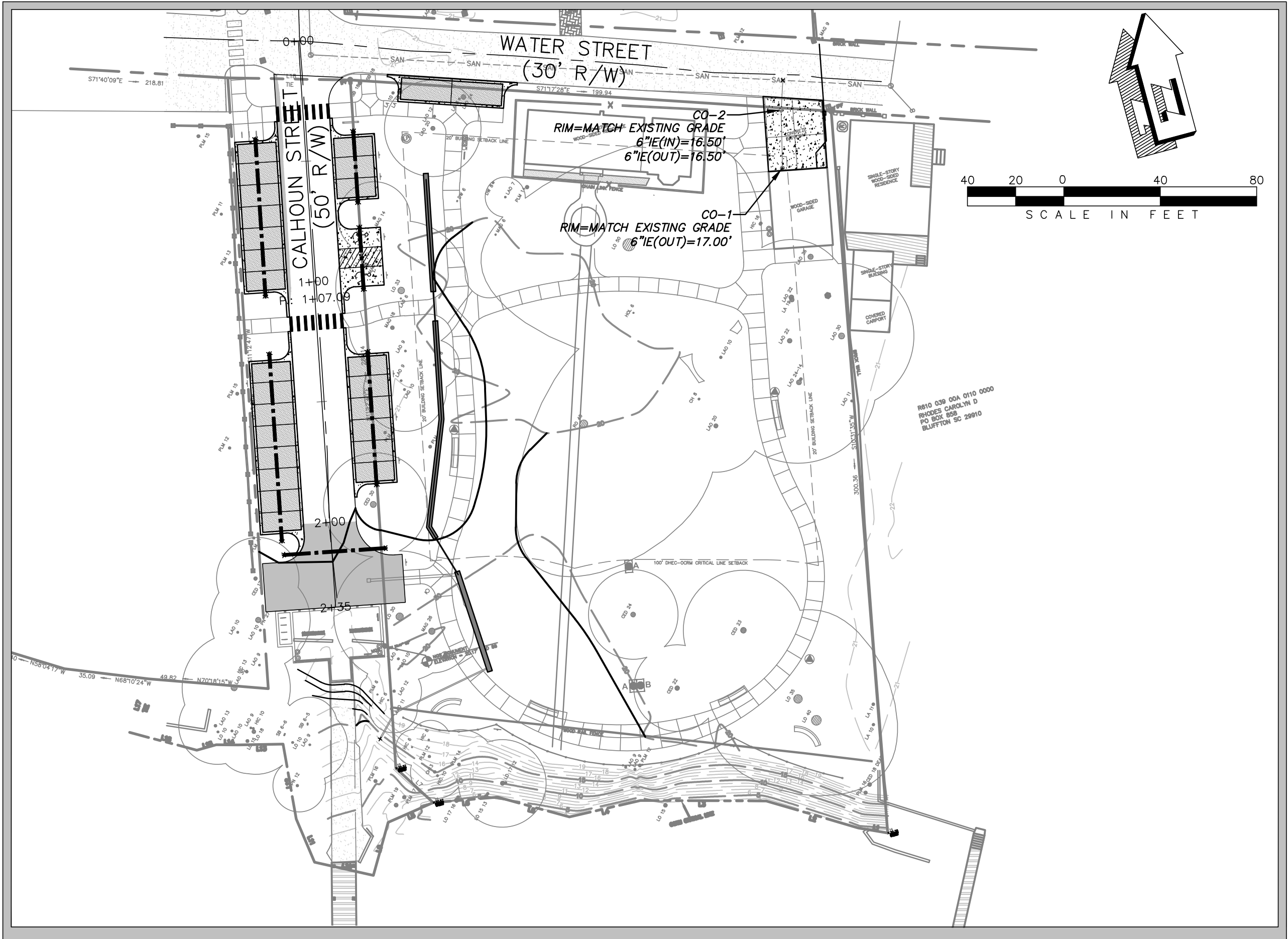
BID AND PERMIT PLANS FOR

WRIGHT FAMILY PARK

PREPARED FOR

TOWN OF BLUFFTON

20 BRIDGE STREET
BLUFFTON, SC 29910



| PROJECT DATA: | | |
|--------------------------------|---|------------|
| 1. ACREAGE OF PROPERTY: | | 1.72 ACRES |
| 2. ACREAGE OF DEVELOPMENT: | | 1.72 ACRES |
| 3. OWNER/DEVELOPER: | TOWN OF BLUFFTON 20 BRIDGE STREET BLUFFTON, SC 29910 PHONE: 843-706-4521 | |
| 24 HOUR CONTACT: | NAME: PAT ROONEY PHONE: 843-706-4521 | |
| 4. TAX MAP NUMBERS: | R610 039 00A0111 0000 | |
| 5. ZONING: | RIVERFRONT EDGE — HD | |
| 6. STORM WATER OUTFALL: | MAY RIVER | |
| 7. DRAINAGE AREA THIS PROJECT: | 1.72 ACRES | |
| 8. IMPERVIOUS AREA: | EXISTING: 0.26 ACRES PROPOSED: 0.39 ACRES | |
| 9. PERVIOUS AREA: | EXISTING: 1.46 ACRES PROPOSED: 1.33 ACRES | |
| 10. RECEIVING STREAM: | MAY RIVER | |
| 11. ULTIMATE STREAM: | MAY RIVER | |
| 12. EXISTING LAND USE: | RECREATIONAL | |
| 13. PROPOSED LAND USE: | RECREATIONAL | |

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|--------------|---------------------------|
| Sheet Number | Sheet Title |
| C1.0 | TITLE SHEET |
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| C7.0 | UTILITY PLAN |
| C7.1 | UTILITY DETAILS |

PREPARED BY



CRANSTON
ENGINEERING

ENGINEERS - PLANNERS - SURVEYORS
14 Westbury Park Way, Suite 202, Bluffton, SC 29910
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mail@CranstonEngineering.com

3/5/2019



G:\AA--ACTIVE JOBS\2019-0032_WRIGHT'S FAMILY PARK\AA -- DRAINGS\DWG\20190032_C01.DWG 3/12/2019 4:42 PM

LEGEND

| | |
|--|--|
| | MAJOR CONTOUR (EXISTING) |
| | MINOR CONTOUR (EXISTING) |
| | MAJOR CONTOUR (PROPOSED) |
| | MINOR CONTOUR (PROPOSED) |
| | EXISTING BOUNDARY |
| | EXISTING ADJOINER |
| | PERMANENT EASEMENT |
| | TEMPORARY EASEMENT |
| | 25' BUFFER |
| | ENVIRONMENTALLY SENSITIVE AREA |
| | EDGE OF WATER |
| | TREE LINE |
| | EXISTING OVERHEAD UTILITY (UNSPECIFIED) |
| | EXISTING UNDERGROUND POWER |
| | PROPOSED UNDERGROUND POWER |
| | EXISTING OVERHEAD POWER |
| | PROPOSED OVERHEAD POWER |
| | EXISTING UNDERGROUND TELEPHONE |
| | PROPOSED UNDERGROUND TELEPHONE |
| | EXISTING OVERHEAD TELEPHONE |
| | PROPOSED OVERHEAD TELEPHONE |
| | EXISTING UNDERGROUND CABLE |
| | PROPOSED UNDERGROUND CABLE |
| | EXISTING FIBEROPTIC |
| | PROPOSED FIBEROPTIC |
| | EXISTING GAS |
| | PROPOSED GAS |
| | EXISTING WATER |
| | PROPOSED WATER |
| | EXISTING SANITARY SEWER |
| | PROPOSED SANITARY SEWER |
| | FENCE: EXISTING |
| | FENCE: PROPOSED |
| | FENCE: EXISTING CHAINLINK |
| | FENCE: PROPOSED CHAINLINK |
| | FENCE: EXISTING STONE |
| | FENCE: PROPOSED STONE |
| | FENCE: EXISTING WIRE |
| | FENCE: PROPOSED WIRE |
| | EXISTING GUARDRAIL |
| | PROPOSED GUARDRAIL |
| | ORANGE BARRIER FENCE OR C-POP SILT FENCE |
| | SILT FENCE |

| | |
|--|-----------------------------------|
| | EXISTING BUILDING |
| | PROPOSED BUILDING |
| | EXISTING CONCRETE/PAVING |
| | PROPOSED CONCRETE AND/OR PAVING |
| | EXISTING ASPHALT PAVING |
| | PROPOSED ASPHALT PAVING |
| | EXISTING GRAVEL PAVING OR RIP-RAP |
| | PROPOSED GRAVEL PAVING OR RIP-RAP |
| | EXISTING BRICK PAVING |
| | PROPOSED BRICK PAVING |
| | EXISTING UTILITY POLE |
| | PROPOSED UTILITY POLE |
| | EXISTING STRAIN POLE |
| | PROPOSED STRAIN POLE |
| | EXISTING GUY WIRE |
| | PROPOSED GUY WIRE |
| | EXISTING ELECTRIC LIGHT |
| | EXISTING LIGHT POLE |
| | PROPOSED LIGHT POLE |
| | EXISTING MANHOLE |
| | PROPOSED MANHOLE |
| | EXISTING FIRE HYDRANT |
| | PROPOSED FIRE HYDRANT |
| | EXISTING IRRIGATION VALVE |
| | PROPOSED IRRIGATION VALVE |
| | EXISTING WATER METER |
| | PROPOSED WATER METER |

| | |
|--|---|
| | PROPOSED REDUCER |
| | EXISTING POST INDICATOR |
| | PROPOSED POST INDICATOR |
| | EXISTING SANITARY TAP |
| | EXISTING SANITARY CLEAN OUT |
| | EXISTING WATER VALVE |
| | PROPOSED WATER GATE VALVE |
| | PROPOSED SANITARY GATE VALVE |
| | PROPOSED SANITARY VALVE |
| | EXISTING GAS METER |
| | PROPOSED GAS METER |
| | EXISTING GAS VALVE |
| | PROPOSED GAS VALVE |
| | B-# BORING |
| | BM-# BENCHMARK |
| | ACP AIR CONDITIONER |
| | BFP BACKFLOW PREVENTER |
| | B BOLLARD |
| | CDP CONCRETE DUMPSTER PAD |
| | CO CLEAN OUT |
| | CP CONCRETE PAD |
| | CMP CORRUGATED METAL PIPE |
| | CPP CORRUGATED PLASTIC PIPE |
| | CW CHILLED WATER |
| | DI DROP INLET |
| | DIP DUCTILE IRON PIPE |
| | DWT DOUBLE WING DRAP |
| | EBX ELECTRICAL BOX |
| | EF ELECTRICAL FEED |
| | EO ELECTRICAL OUTLET |
| | F FOUNTAIN |
| | FOBx FIBEROPTIC BOX |
| | FOM FIBEROPTIC MONUMENT |
| | FOPB FIBEROPTIC PULLBOX |
| | FH FIRE HYDRANT |
| | FP FLAG POLE |
| | GM GAS METER |
| | GP GUY POLE |
| | GUY GUY WIRE |
| | GT GRATE TRAP |
| | GV GAS VALVE |
| | GVP GAS VENT PIPE |
| | HBT HOOD BACK TRAP |
| | ICV IRRIGATION CONTROL VALVE |
| | IE= INVERT ELEVATION |
| | LP LIGHT POLE |
| | MB MAIL BOX |
| | MW MONITORING WELL |
| | OTF OPEN TOP FOUND |
| | PM POWER METER |
| | PO POWER OUTLET |
| | PP POWER POLE |
| | PVC POLYVINYLCHLORIDE PIPE |
| | RCP REINFORCED CONCRETE PIPE |
| | RPZ REDUCED PRESSURE ZONE BACKFLOW PREVETER |
| | SAN SANITARY SEWER |
| | SD STORM DRAIN |
| | SH SPRINKLER HEAD |
| | STBX STORM BOX |
| | SWT SINGLE WING TRAP |
| | TD TRUNCATED DOME |
| | TP TELEPHONE PEDESTAL |
| | TPB TELEPHONE PULLBOX |
| | TSB TRAFFIC SIGNAL BOX |
| | TSC TRAFFIC SIGNAL CABINET |
| | TSP TRAFFIC SIGNAL POLE |
| | WM WATER METER |
| | WV WATER VALVE |
| | WVB WATER VALVE BOX |
| | WVLT WATER VAULT |

TREE LEGEND

| | | | |
|-----|---------------------|-------|-------------------|
| ASH | ASH | JPH | JAPANESE HOLLY |
| BI | BIRCH | MAG | SOUTHERN MAGNOLIA |
| CA | CAMELLIA | MP | MAPLE |
| CE | CEDAR | MULTI | MULTI-TRUNK |
| CBR | CHINABERRY | OAK | OAK |
| CH | CHERRY | PA | PALMETTO |
| CHP | CHINESE PISTACHIO | PE | PECAN |
| CR | CRAPE MYRTLE | PERS | PERSIMMON |
| CYP | CYPRESS | PN | PINE |
| DW | DOGWOOD (FLOWERING) | PO | POPLAR |
| ERC | EASTERN RED CEDAR | PR | PEAR |
| FR | FRUIT TREE | SG | SWEETGUM |
| GBL | GINKO BILOBA | SUB | SUGARBERRY |
| GUM | GUM | SYC | SYCAMORE |
| HI | HICKORY | TA | TALLOW TREE |
| HKB | HACKBERRY | TREE | UNKNOWN TREE TYPE |
| HO | HOLLY | WAX | WAX MYRTLE |
| JAP | JAPANESE MAPLE | | |

PROJECT MANAGER

PAT ROONEY
TOWN OF BLUFFTON
(843) 706-4521

ENGINEER OF RECORD

ANDREW BAJOCZKY, P.E.
CRANSTON ENGINEERING GROUP P.C.
(843) 314-1965

UTILITIES:

WATER AND SEWER
BEAUFORT-JASPER WATER & SEWER AUTHORITY
SERVICE CONTACT: 843-987-9200
REPORT OUTAGE: 843-987-3200

POWER

SCE&G
SERVICE CONTACT: 800-251-7234
REPORT OUTAGE: 888-333-4465

COMMUNICATION

HARGRAY
SERVICE CONTACT: 843-815-1600
REPORT OUTAGE: 843-686-1138

GENERAL NOTES:

- PLANS CONTAINED HEREIN ARE FOR IMPROVEMENTS APPROVED BY THE TOWN OF BLUFFTON (OWNER) AND BEAUFORT JASPER WATER AND SEWER AUTHORITY (BWSA). ANY VARIATION FROM THE APPROVED PLANS MUST BE APPROVED IN WRITING BY THE OWNER AND/OR ENGINEER.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE OWNER AND ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THIS MEETING SHALL BE SCHEDULED WITH THE OWNER AND ENGINEER AT THE TIME NOTICE TO PROCEED IS GIVEN.
- THE OWNER AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE, DURING REGULAR HOURS (8:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS), BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (SCDOT), TOWN OF BLUFFTON SPECIFICATIONS, AND THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR WILL BE REQUIRED TO HAVE ON SITE A COPY OF SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, LATEST EDITION.
- NO WORK SHALL COMMENCE WITHIN SCDOT'S RIGHT-OF-WAY UNTIL AN APPROVED SCDOT ENCROACHMENT PERMIT HAS BEEN RECEIVED.
- ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED ON THE PLANS OR IN THE SPECIFICATIONS SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEERS ATTENTION, NOTED ON THE CONTRACTOR'S PROPOSAL, AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CORRECT THE SAME AND CONSTRUCT THE PROJECT AS DESIGNED.

GENERAL EXISTING CONDITIONS & SURVEY NOTES:

- DATE OF SURVEY - 09/10/2018 BY SEA ISLAND LAND SURVEY, LLC
- THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR INDICATED IN ANY WAY THEREBY, WHETHER BY DRAWINGS OR NOTES OR ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY AND ARE NOT GUARANTEED.
- ACCORDING TO THE FEMA FIRM PANEL NO. 0001A COMMUNITY NO. 450251, DATED 09/29/86, THIS PROJECT IS LOCATED WITHIN FLOOD ZONES 'A6' & 'C' WITH A BASE FLOOD ELEVATION OF 14.0' AND N/A.
- THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE OWNER IN THE EVENT THAT PREVIOUSLY UNKNOWN HISTORICAL OR ARCHEOLOGICAL SITES ARE DISCOVERED DURING CONSTRUCTION. NO ADDITIONAL WORK IN SUCH AREAS WILL BE ALLOWED UNTIL AUTHORIZED IN WRITING.
- PROPERTY LINES SHOWN HEREIN HAVE BEEN DERIVED BY PLAT INFORMATION AND GIS DATA OBTAINED FROM THE TOWN OF BLUFFTON.
- DISTURBANCES TO ANY SURVEY MARKERS OR MONUMENTS REQUIRES RE-ESTABLISHMENT BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

GENERAL EROSION CONTROL NOTES:

- ALL SILT BARRIERS MUST BE PLACED PRIOR TO LAND DISTURBING ACTIVITIES.
- ALL DRAINAGE EASEMENTS & DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL EROSION.

GENERAL UTILITIES NOTES:

- THE EXISTENCE, ABSENCE, LOCATION AND ELEVATION OF UNDERGROUND UTILITIES ON THE PLANS ARE NOT BASED ON FIELD MARKS, ARE NOT GUARANTEED, AND SHALL BE INVESTIGATED, UNEARTHED IF NECESSARY, AND VERIFIED BY CONTRACTOR BEFORE BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT SOUTH CAROLINA 811, "CALL BEFORE YOU DIG" SERVICE IN ORDER TO LOCATE UTILITIES PRIOR TO STARTING ANY EXCAVATION OR CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, ABOVE GROUND OR BELOW GROUND.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH APPROPRIATE UTILITIES PRIOR TO AND/OR DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY BEFORE DIGGING NEAR WATER AND SANITARY SEWER LINES.
- NO EXTRA PAYMENT WILL BE MADE FOR REPAIRS TO DAMAGE OF EXISTING UTILITIES.
- THE CONTRACTOR WILL NOT BE PAID FOR DELAYS OR EXTRA EXPENSE CAUSED BY UTILITY FACILITIES, OBSTRUCTIONS, OR ANY OTHER ITEMS NOT REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.

GENERAL TRAFFIC CONTROL NOTES:

- THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A TRAFFIC CONTROL PLAN FOR APPROVAL AND THE INSTALLATION OF ALL TRAFFIC CONTROL SIGNAGE, SIGNALS, AND/OR DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR INITIAL INSTALLATION OF ALL TRAFFIC CONTROL SIGNAGE REQUIRED FOR CONSTRUCTION.
- ROAD CLOSURES AND DETOURS, SHOULD THEY BE NEEDED, SHALL BE COORDINATED AND APPROVED WITH THE OWNER A MINIMUM OF TWO (2) CALENDAR WEEKS PRIOR TO PLANNED CLOSURE AND/OR DETOUR.
- CERTIFIED FLAGGERS AND/OR ARROW BOARDS WILL BE REQUIRED TO MAINTAIN TRAFFIC CONTROL WHILE WORKING WITHIN THE LIMITS OF PUBLIC OR PRIVATE ROADWAYS.
- CONTRACTOR SHALL MAINTAIN ONE (1) LANE OF TRAVEL OPEN AT ALL TIMES IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST ADDITION.

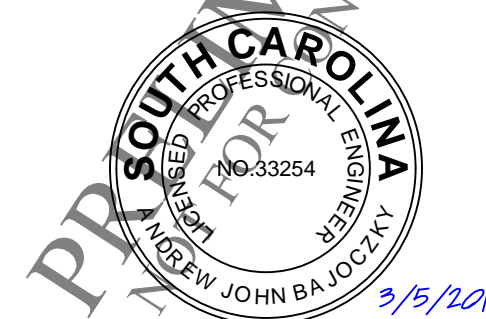
GENERAL CONSTRUCTION NOTES:

- ALL STRUCTURES, TREES AND SHRUBS WHICH ARE WITHIN THE DESIGNATED CONSTRUCTION EASEMENT, BUT OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
- UNSATURABLE AND SURPLUS EXCAVATION MATERIAL NOT REQUIRED FOR FILL SHALL BE DISPOSED OF OFFSITE.
- CONTRACTOR IS TO CLEAN ALL STORM WATER INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE ANY SILT AND DEBRIS. THE CLEANING OF DROP INLETS, CULVERTS, AND PIPES (EXISTING AND PROPOSED) SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR.
- ANY DAMAGE TO THE SIDE STREETS DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAIRED IN AN EXPEDIENT MANNER AT THE CONTRACTOR'S EXPENSE.

CRANSTON
ENGINEERING



ENGINEERS - PLANNERS - SURVEYORS
14 Westbury Park Way, Suite 202, Bluffton, SC 29910
Telephone 843-815-3191
mail@CranstonEngineering.com



| REV | # | DATE | DESCRIPTION |
|-----|---|----------|----------------------|
| 1 | | 3/5/2019 | BID AND PERMIT PLANS |

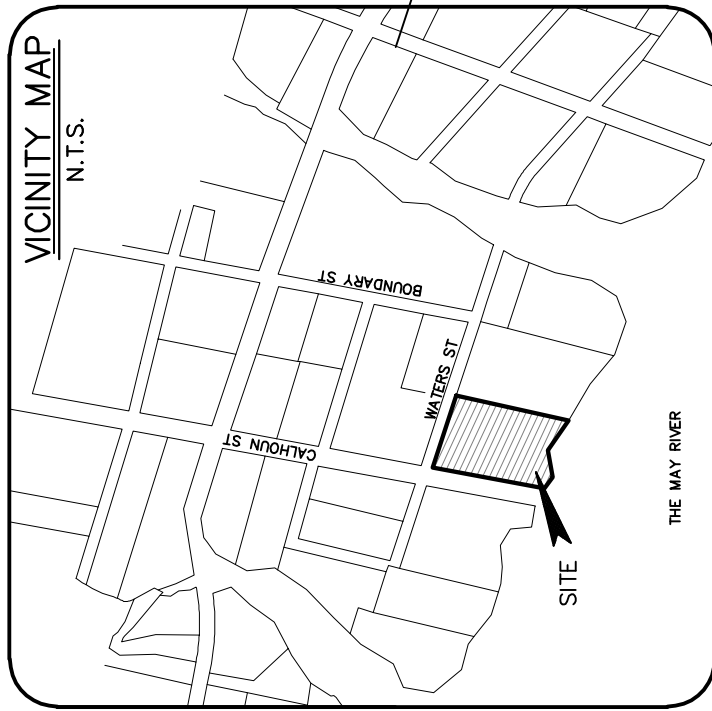
WRIGHT FAMILY PARK

GENERAL NOTES AND LEGEND

| | |
|--------------|-----------|
| DRAWN BY: | AEA |
| CHECKED BY: | MER |
| APPROVED BY: | AJB |
| DATE: | 3/5/2019 |
| SCALE: | AS SHOWN |
| JOB No. | 2019-0032 |
| DRAWING No. | |

C1.1





- LEGEND & SYMBOLS:
- TREE SIZES ARE INCHES IN DIAMETER
- SPOT ELEVATION
 - 3" CONCRETE MONUMENT FOUND
 - 3/4" IRON PIPE FOUND
 - INVERT ELEVATION
 - PVC
 - LIVE OAK
 - MAGNOLIA
 - PINE
 - WATER OAK
 - SUGAR BERRY
 - CECILIAR
 - WILD CHERRY
 - ELECTRIC SERVICE
 - TELEPHONE SERVICE
 - WATER METER
 - VALVE BOX
 - UTILITY POLE
 - SIGN
 - FIRE HYDRANT
 - LP TANK (UNDERGROUND)

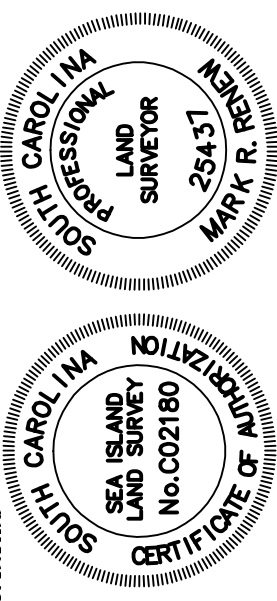
ASBLUIT, TREE AND TOPOGRAPHIC SURVEY OF:
SQUIRE POPE CARRIAGE HOUSE
CALHOUN STREET TOWN OF BLUFFTON,
BEAUFORT COUNTY, SOUTH CAROLINA
PREPARED FOR: THE TOWN OF BLUFFTON

DATE: 9/10/18 SCALE: 1"=20'



SILS Sea Island Land Survey, LLC.
40 Matthews Court,
Hilton Head Island,
SC 29926
Tel: (843) 681-3248
Fax: (843) 688-3871
E-mail: sils@spirenet.com
FILE No.: 18202
DWG No.: 9-737

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT, AND THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF SOUTH CAROLINA, AND THAT I AM NOT PROVIDING ANY SERVICES OR PROFESSIONAL OPINION TO ANY OTHER PARTY.



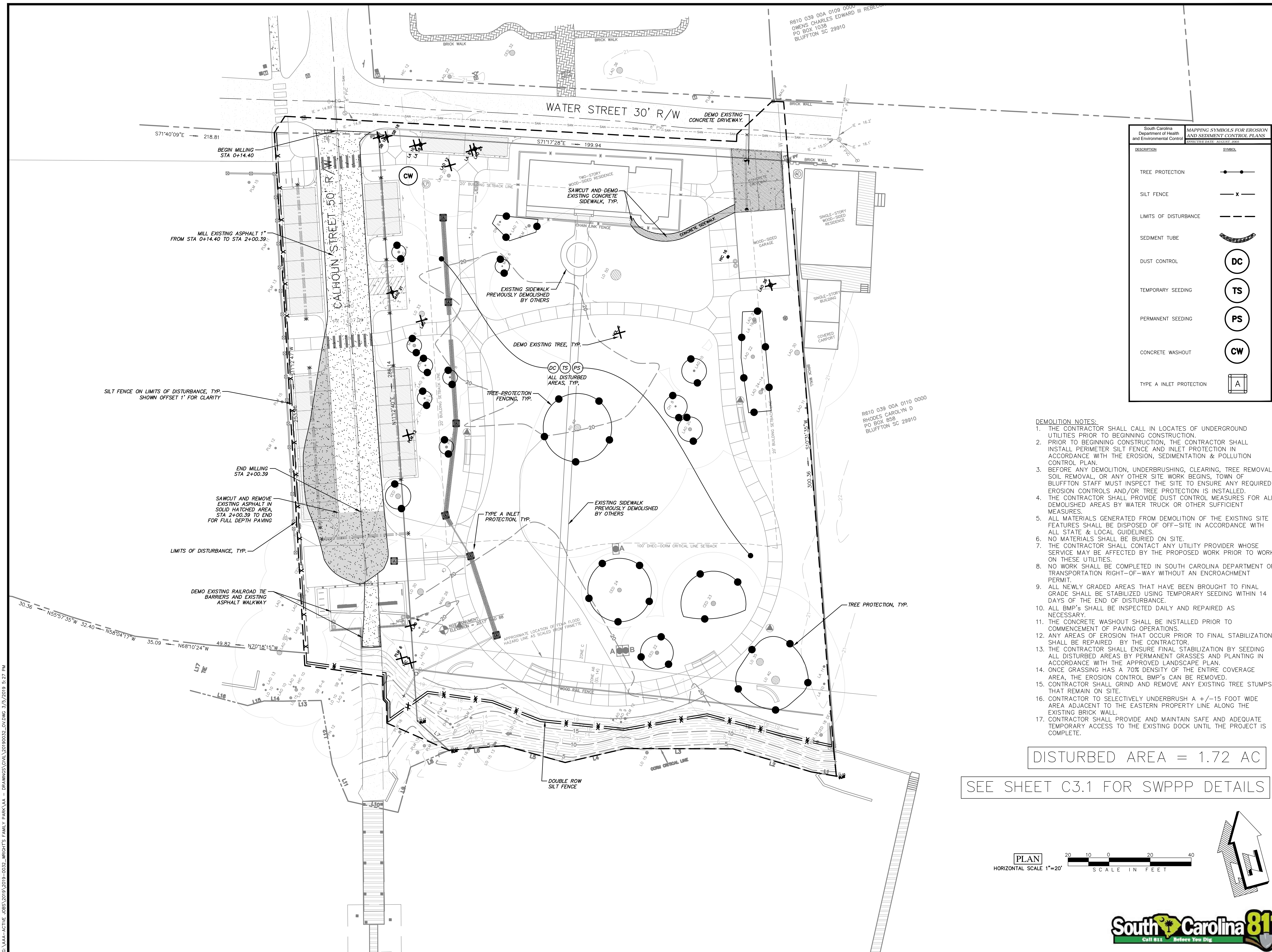
- NOTES:
- UNDERGROUND UTILITIES NOT LOCATED EXCEPT AS SHOWN.
 - SEA ISLAND LAND SURVEY, LLC. CERTIFIES TO THE BOUNDARY, TOPOGRAPHIC AND ASBLUIT INFORMATION PROVIDED HEREON AS THE DATE OF THE SURVEY. THIS SURVEY MAY BE USED IN DIGITAL FORMAT AS A BASE FOR OTHERS AND ANY REVISIONS OR ADDITIONS MADE HEREFTER IS NOT THE RESPONSIBILITY OF SEA ISLAND LAND SURVEY, LLC. AND ANY REVISIONS OR ADDITIONS MADE HEREFTER IS NOT THE RESPONSIBILITY OF SEA ISLAND LAND SURVEY, LLC. THIS WILL BE THE ONLY OFFICIAL DOCUMENT.
 - HORIZONTAL DATUM IS S.C. STATE PLANE NAD 83.
 - CONTOUR INTERVAL IS 1'.
 - THIS SURVEY HAS BEEN PREPARED WITHOUT BENEFIT OF A COMPLETE TITLE SEARCH AND IS SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD.
 - IF IDENTIFICATION OF TREES IS CRITICAL TO DEVELOPMENT, AN ARBORIST SHOULD BE CONSULTED TO VERIFY SUCH TREE IDENTIFICATION.

REFERENCE PLATS

- BOUNDARY, ASBLUIT, TREE & TOPOGRAPHIC SURVEY OF THE SQUIRE POPE CARRIAGE HOUSE, TOWN OF BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA.
DRAWN: 6/19/01
RECORDED IN BOOK 87, PAGE 174, DATED 6/25/02
BY: FORREST F. BAUGHMAN S.C.R.L.S. # 4922
- AN ASBLUIT SURVEY OF PARCEL 112 & 115, DISTRICT 610, MAP 39-A, TOWN OF BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA.
DRAWN: 6/19/01
RECORDED IN BOOK 87, PAGE 174, DATED 6/25/02
BY: FORREST F. BAUGHMAN S.C.R.L.S. # 4922

DISTRICT: 610, MAP: 39A, PARCEL: 111
PROPERTY AREA: 1.36 AC. 59,242 S.F.
ADDRESS: 111 CALHOUN STREET
THIS PROPERTY LIES IN FEMA ZONE A6 & C
BASE FLOOD ELEVATION = 14.07 & N/A
COMMUNITY NO. 460251, PANEL 0001A, DATED: 9/26/86

G:\AA-Active Jobs\2019-0032_WRIGHT'S FAMILY PARK\AA - DRAINGS\DWG\20190032_C3.DWG 3/2/2019 5:27 PM



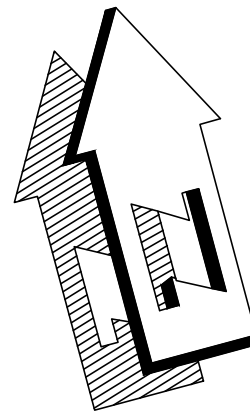
| South Carolina Department of Health and Environmental Control | |
|---|--------|
| MAPPING SYMBOLS FOR EROSION AND SEDIMENT CONTROL PLANS | |
| DESCRIPTION | SYMBOL |
| TREE PROTECTION | |
| SILT FENCE | |
| LIMITS OF DISTURBANCE | |
| SEDIMENT TUBE | |
| DUST CONTROL | |
| TEMPORARY SEEDING | |
| PERMANENT SEEDING | |
| CONCRETE WASHOUT | |
| TYPE A INLET PROTECTION | |

- DEMOLITION NOTES:
1. THE CONTRACTOR SHALL CALL IN LOCATES OF UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
 2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL PERIMETER SILT FENCE AND INLET PROTECTION IN ACCORDANCE WITH THE EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN.
 3. BEFORE ANY DEMOLITION, UNDERBRUSHING, CLEARING, TREE REMOVAL SOIL REMOVAL, OR ANY OTHER SITE WORK BEGINS, TOWN OF BLUFFTON STAFF MUST INSPECT THE SITE TO ENSURE ANY REQUIRED EROSION CONTROLS AND/OR TREE PROTECTION IS INSTALLED.
 4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES FOR ALL DEMOLISHED AREAS BY WATER TRUCK OR OTHER SUFFICIENT MEASURES.
 5. ALL MATERIALS GENERATED FROM DEMOLITION OF THE EXISTING SITE FEATURES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL STATE & LOCAL GUIDELINES.
 6. NO MATERIALS SHALL BE BURIED ON SITE.
 7. THE CONTRACTOR SHALL CONTACT ANY UTILITY PROVIDER WHOSE SERVICE MAY BE AFFECTED BY THE PROPOSED WORK PRIOR TO WORK ON THESE UTILITIES.
 8. NO WORK SHALL BE COMPLETED IN SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT.
 9. ALL NEWLY GRADED AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE SHALL BE STABILIZED USING TEMPORARY SEEDING WITHIN 14 DAYS OF THE END OF DISTURBANCE.
 10. ALL BMP'S SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY.
 11. THE CONCRETE WASHOUT SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF PAVING OPERATIONS.
 12. ANY AREAS OF EROSION THAT OCCUR PRIOR TO FINAL STABILIZATION SHALL BE REPAIRED BY THE CONTRACTOR.
 13. THE CONTRACTOR SHALL ENSURE FINAL STABILIZATION BY SEEDING ALL DISTURBED AREAS BY PERMANENT GRASSES AND PLANTING IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
 14. ONCE GRASSING HAS A 70% DENSITY OF THE ENTIRE COVERAGE AREA, THE EROSION CONTROL BMP'S CAN BE REMOVED.
 15. CONTRACTOR SHALL GRIND AND REMOVE ANY EXISTING TREE STUMPS THAT REMAIN ON SITE.
 16. CONTRACTOR TO SELECTIVELY UNDERBRUSH A +/-15 FOOT WIDE AREA ADJACENT TO THE EASTERN PROPERTY LINE ALONG THE EXISTING BRICK WALL.
 17. CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND ADEQUATE TEMPORARY ACCESS TO THE EXISTING DOCK UNTIL THE PROJECT IS COMPLETE.

DISTURBED AREA = 1.72 AC

SEE SHEET C3.1 FOR SWPPP DETAILS

PLAN
HORIZONTAL SCALE 1"=20'

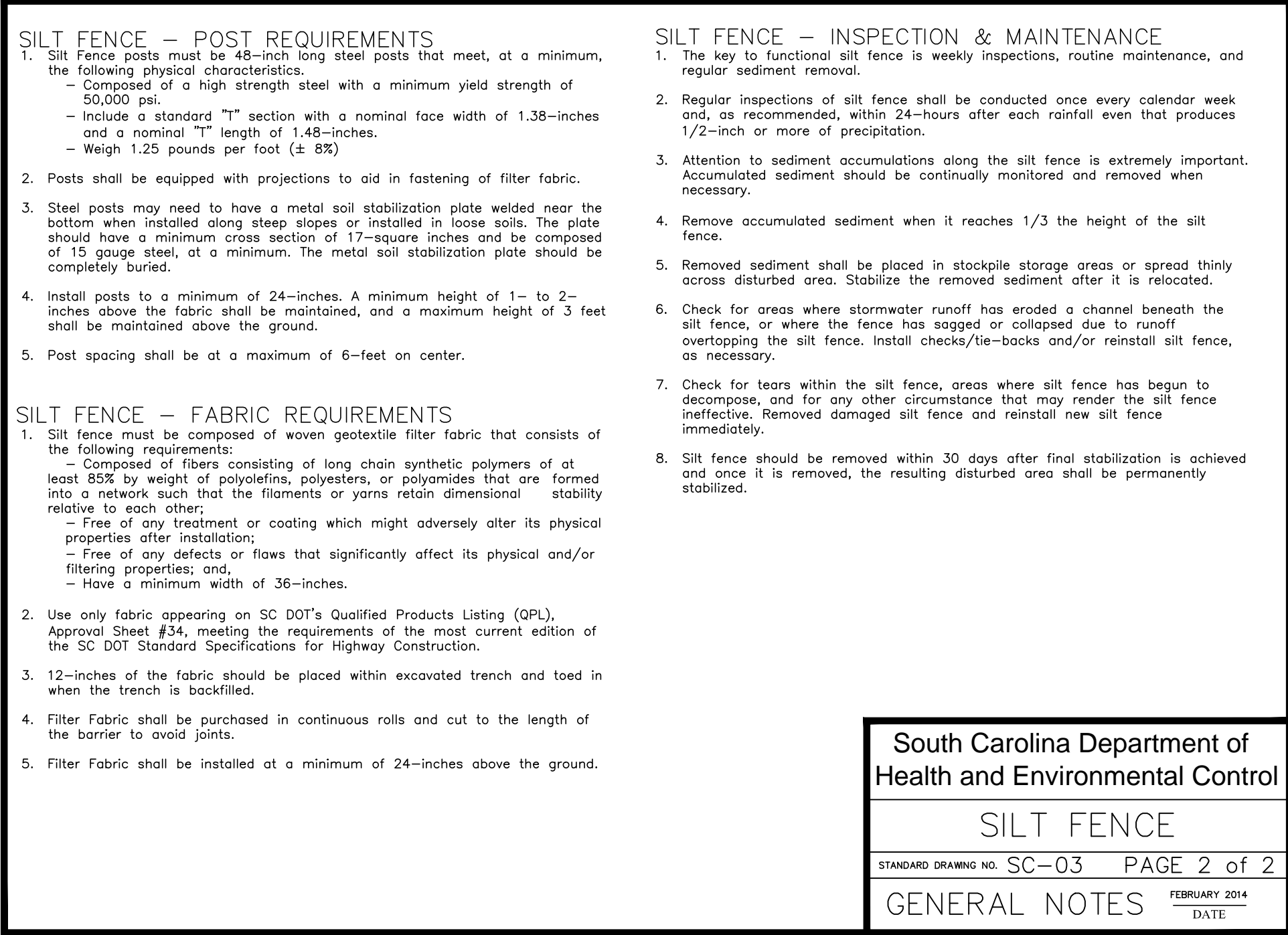
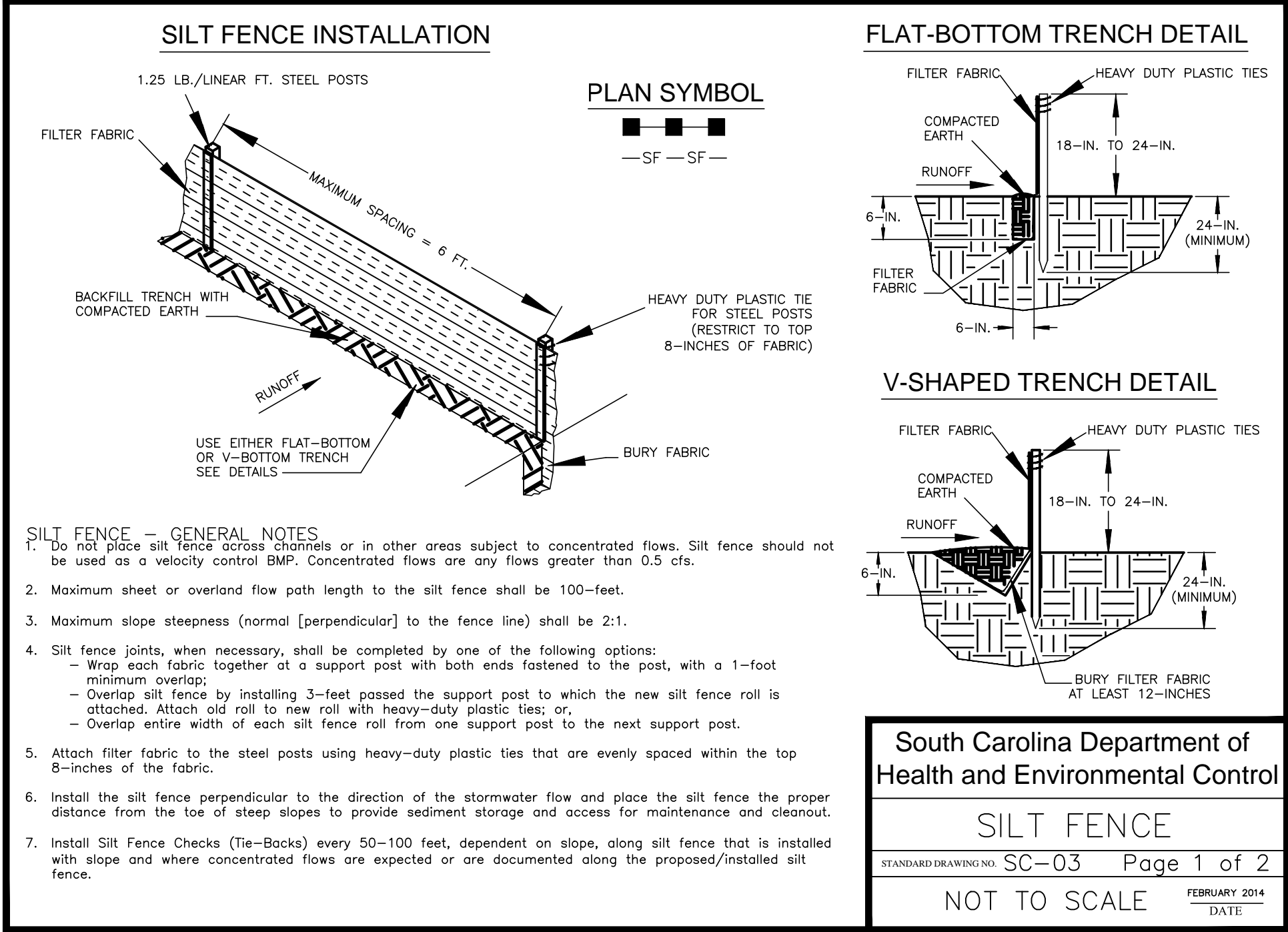


| REV # | DATE | DESCRIPTION |
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| 1 | 3/5/2019 | BID AND PERMIT PLANS |

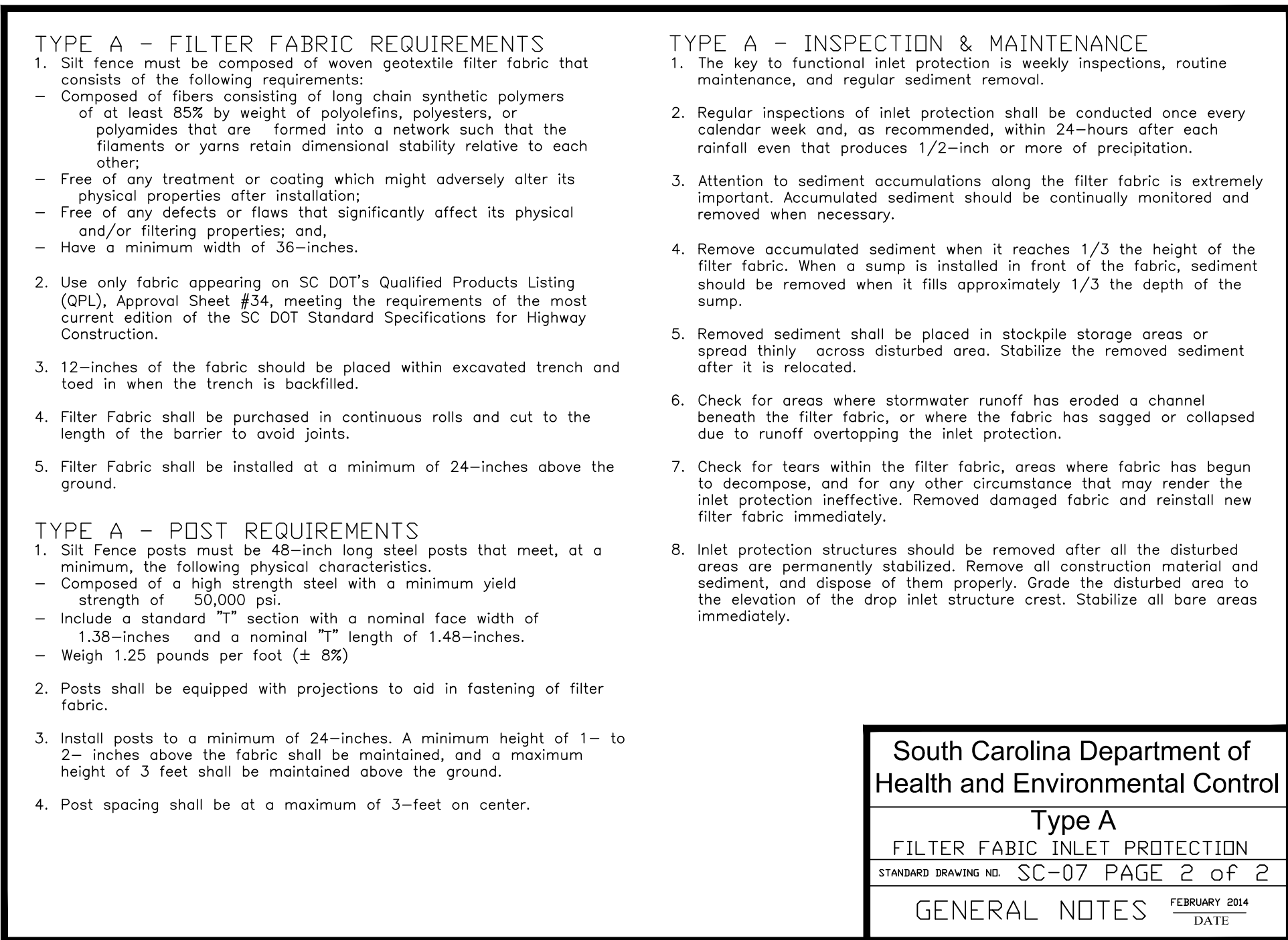
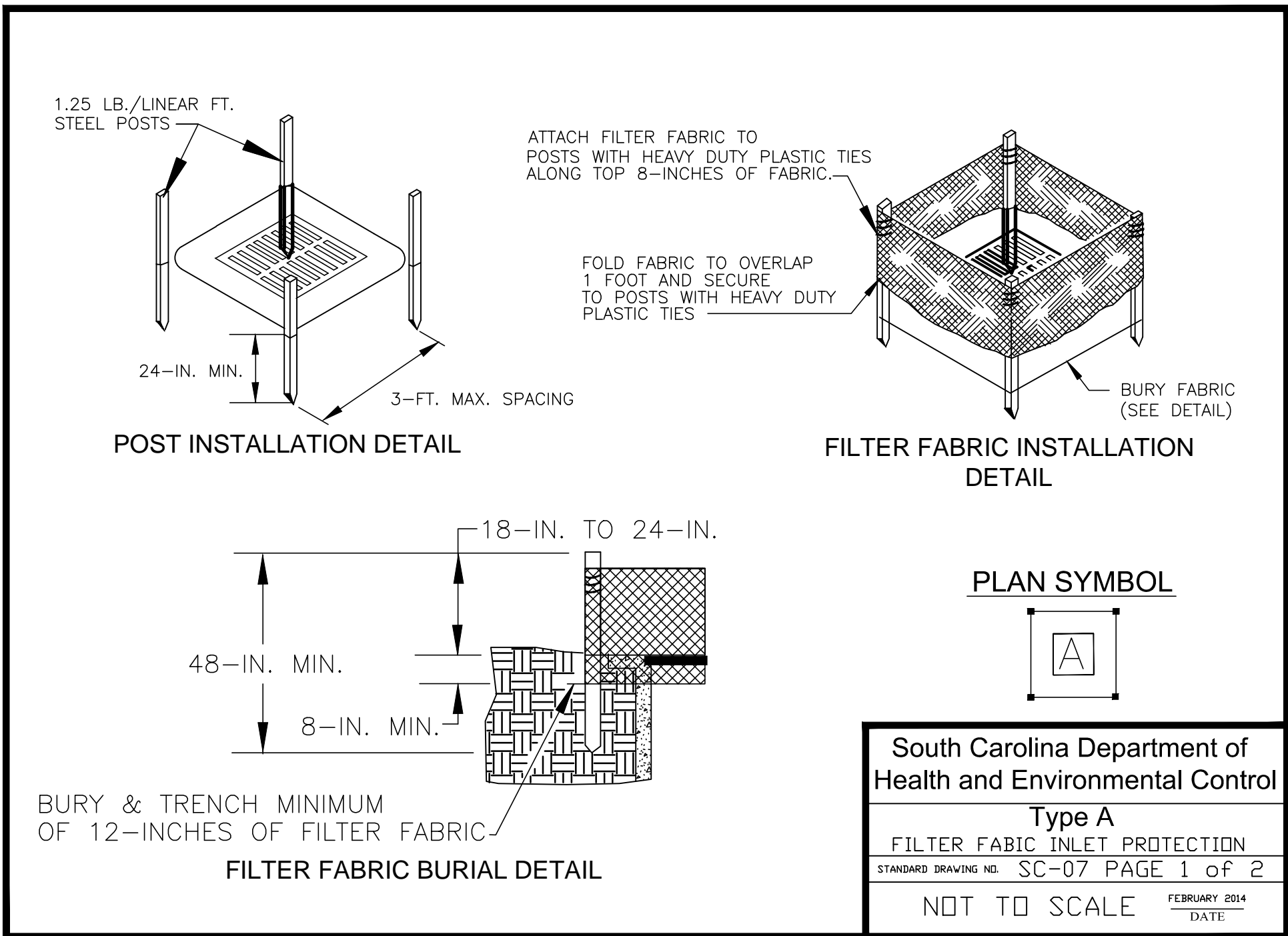
WRIGHT FAMILY PARK
SWPP & DEMOLITION PLAN

| | |
|--------------|-----------|
| DRAWN BY: | AEA |
| CHECKED BY: | MER |
| APPROVED BY: | AJB |
| DATE: | 3/5/2019 |
| SCALE: | AS SHOWN |
| JOB No. | 2019-0032 |
| DRAWING No. | |

G:\AA--ACTIVE JOBS\2019-2022\WRIGHT'S FAMILY PARK\IA - DRAINAGE\WIA\20190032_DRAWING 3/5/2019 4:42 PM

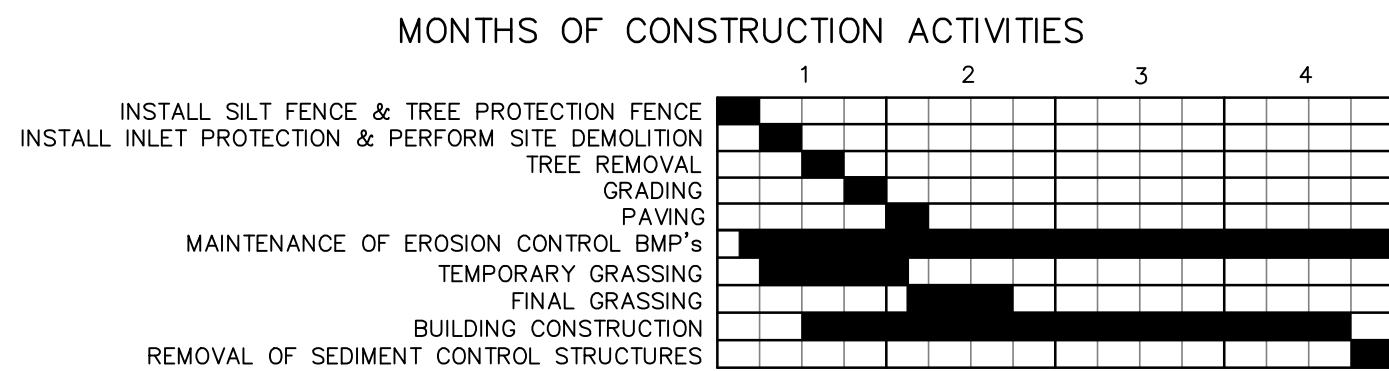


- STANDARD NOTES:**
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER & TEMPORARY SEEDING AT THE END OF THE DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
 - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE WORK HAS CEASED, EXCEPT AS NOTED
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, & EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
 - THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM THE CONSTRUCTION AREA & THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
 - EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
 - RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS OR OBTAIN APPROVAL FOR AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 & SCRI00000.
 - LITTER, CONSTRUCTION DEBRIS, OILS, FUELS & BUILDING PRODUCTS WITH THE SIGNIFICANT POTENTIAL IMPACT (SUCH AS STOCK-PILES OF FRESHLY TREATED LUMBER) & CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
 - ALL SEDIMENT & EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
 - INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
 - MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT & VEHICLE WASHING, WHEEL WASH WATER, & OTHER WASH WATER. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES & EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP's (SEDIMENT BASIN, FILTER BAG, ETC.)
 - THE FOLLOWING DISCHARGES FROM THE SITE ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL
 - WASTEWATER FROM WASHOUT & CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS & OTHER CONSTRUCTION MATERIALS
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE & EQUIPMENT OPERATION & MAINTENANCE
 - SOAPS OR EQUIVALENTS USED IN VEHICLE & EQUIPMENT WASHING
 - AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK & MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
 - IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE NEXT STORM IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP & ALTERNATIVE BMP'S MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
 - TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
 - ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
 - IF CABLE, ELECTRIC, AND NATURAL GAS UTILITIES ARE INSTALLED, THE INSTALLATION OF THESE IS TO BE WITHIN THE PERMITTED LIMITS OF DISTURBANCE AND INSTALLATION OUTSIDE OF THESE AREAS WILL REQUIRE A MODIFICATION TO THE PERMIT.
 - INLET PROTECTION SHALL BE PROVIDED AT ALL EXISTING INLETS THAT RECEIVE FLOWS FROM THE DISTURBED AREAS.
 - CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROADWAY.



- GRASSING REQUIREMENTS**
- SEEDING SCHEDULE: TEMPORARY SEEDING: APRIL 15 – AUGUST 31, BROWNTOP MILLET @ 40 LBS./ACRE. SEPTEMBER 1, – DECEMBER 15, RYE GRAIN @ 56 LBS./ACRE
 - PERMANENT SEEDING: APRIL 1 – OCTOBER 15, A MIXTURE OF KENTUCKY 31 FESCUE @ 20 LBS./ACRE AND CREEPING REDS FESCUE @ 20 LBS./ACRE. SEPTEMBER 1 TO OCTOBER 15, ADD A NURSE CROP OF ABRUZZI RYE @ 75 LBS./ACRE. OCTOBER 15 TO MARCH 30 SEED ABRUZZI RYE AT 100 LBS./ACRE. DOLOMITIC LIME WILL BE INCORPORATED AT THE RATE OF 3000 POUNDS/ACRE.
 - FROM JUNE THROUGH AUGUST AND NOT LESS THAN 30 DAYS AFTER SEEDING, APPLY AMMONIUM NITRATE (NOT LESS THAN 20% NITRATE) AT A RATE EQUAL TO 60 POUNDS OF AVAILABLE NITROGEN/ACRE.
 - ALL SEEDING AREAS WILL BE MULCHED WITH HAY OR STRAW AT A RATE OF 1500 POUNDS/ACRE.
 - SEEDING AND MULCHING MAY BE ACCOMPLISHED IN A SINGLE HYDROSEEDING OPERATION. SEEDING AREAS WILL BE MULCHED WITH HAY, STRAW OR WOOD CELLULOSE AT A RATE OF 1500 LBS/ACRE.

- TEMPORARY GRASSING:**
- MARCH 1–AUGUST 14 SHALL BE PEARL MILLET 50 LBS./ACRE COVERED WITH HEAVY MULCH.
 - AUGUST 15–FEBRUARY 28 SHALL BE RYE GRASS 40 LBS./ACRE AND RYE GRAIN SIMULTANEOUSLY.



- THE TIME AND PERIODS ABOVE ARE NOT EXACT OR READILY DETERMINABLE BUT IN ALL CASES SOIL EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE INCORPORATED INTO THE CONSTRUCTION IN THE SEQUENCE AS SHOWN ABOVE AND/OR AS DIRECTED BY TOWN OF HILTON HEAD ISLAND OR SOHCH.
- GRASSING WILL BE ACCEPTED WHEN A 95% COVER BY PERMANENT GRASSES IS OBTAINED AND WEEDS ARE NOT DOMINANT.
- GRASSING OF CONSTRUCTION AREAS WILL COMMENCE AT COMPLETION OF EACH PHASE OF CONSTRUCTION OR IN THE SEQUENCE AS SHOWN ABOVE. IN ANY CASE, GRASSING OF ANY CONSTRUCTION AREA WILL BEGIN AT THE EARLIEST POSSIBLE DATE.

"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCRI00000."



| REV | # | DATE | DESCRIPTION |
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| 1 | | 3/5/2019 | BID AND PERMIT PLANS |

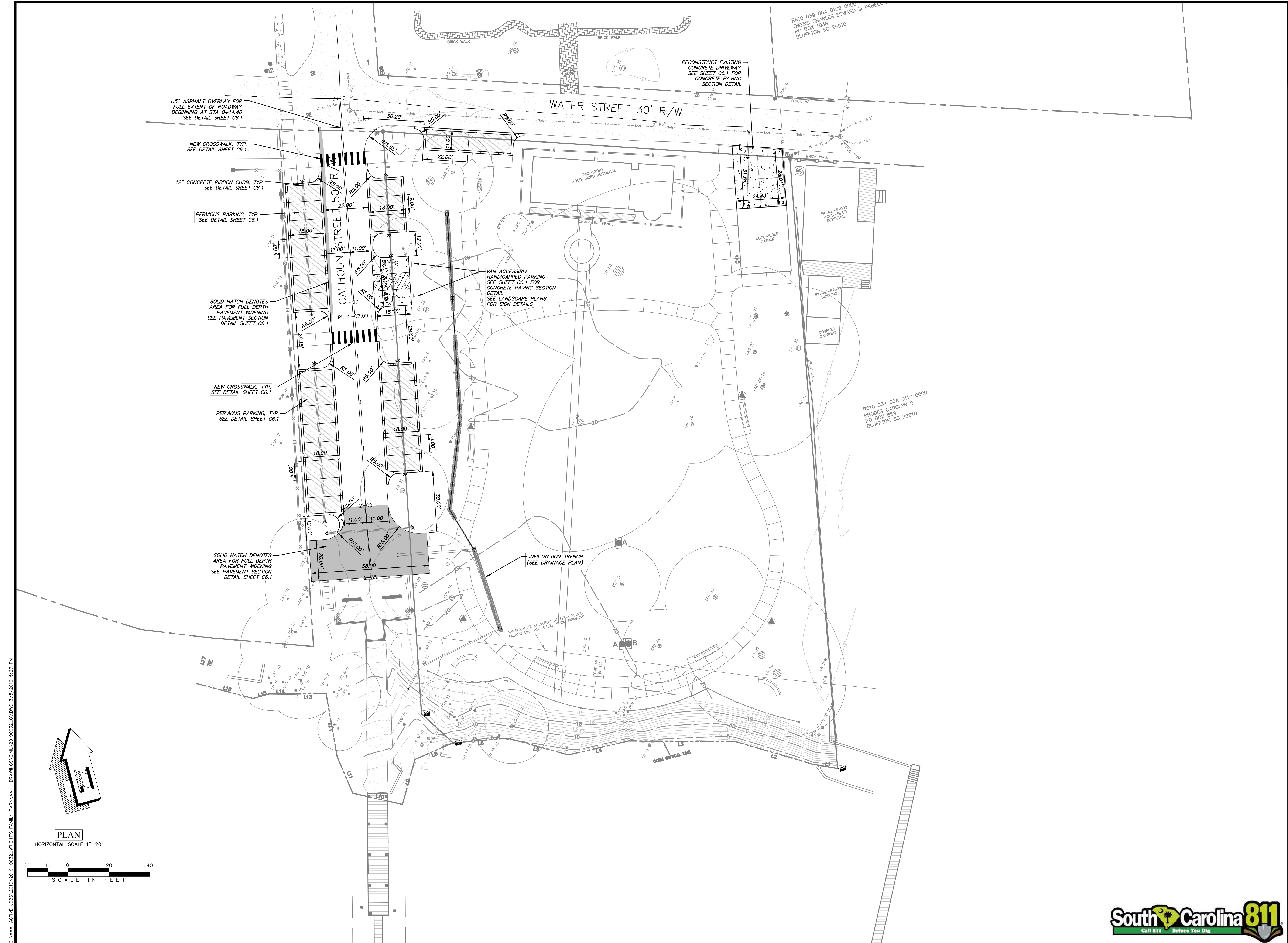
WRIGHT FAMILY PARK

SWPPP DETAILS

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| DRAWN BY: | AEA |
| CHECKED BY: | MER |
| APPROVED BY: | AJB |
| DATE: | 3/5/2019 |
| SCALE: | AS SHOWN |
| JOB No. | 2019-0032 |
| DRAWING No. | |

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Telephone 843-815-3191
mail@CranstonEngineering.com



WRIGHT FAMILY PARK

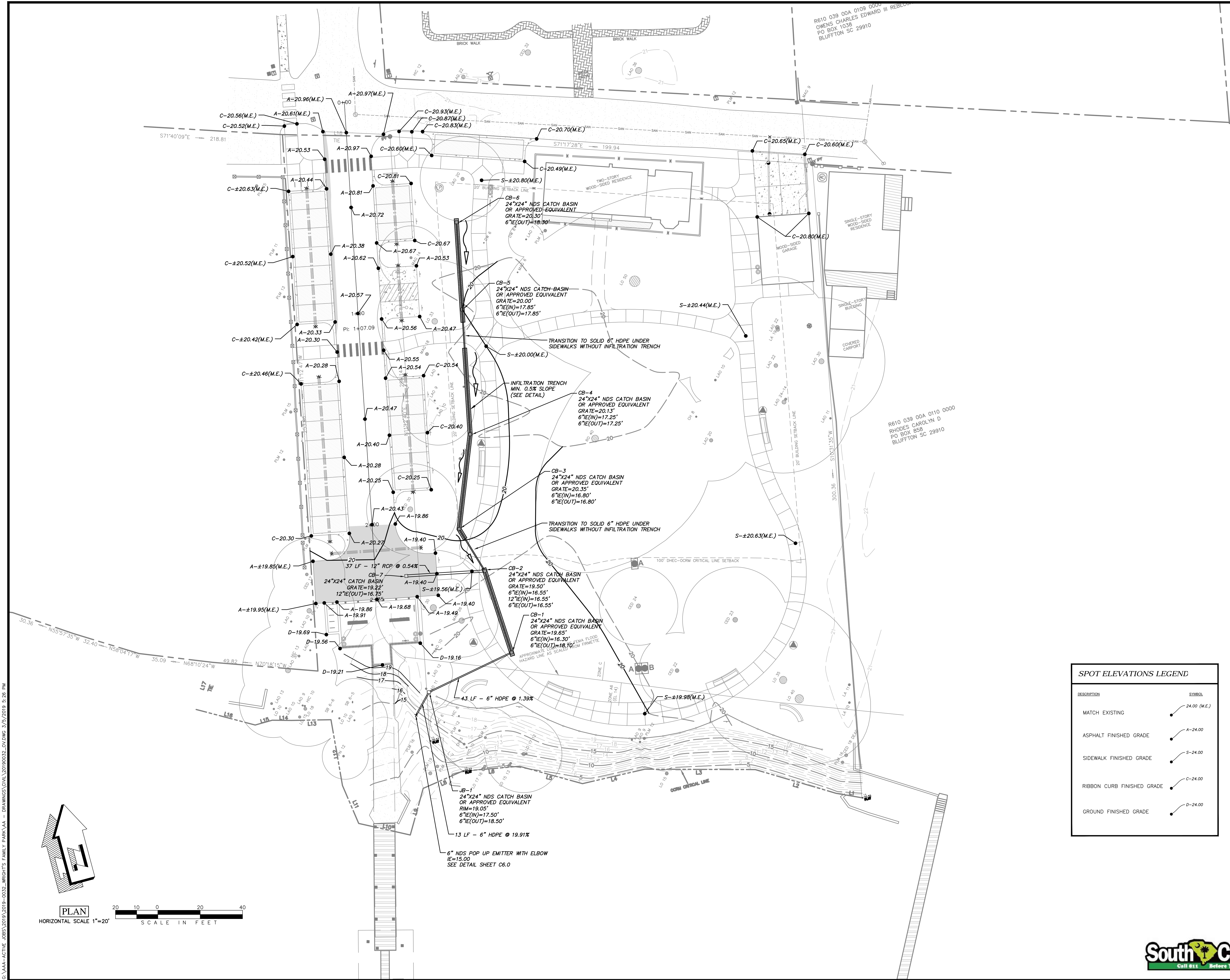
SITE PLAN

| REV # | DATE | DESCRIPTION |
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| 1 | 3/5/2019 | BID AND PERMIT PLANS |

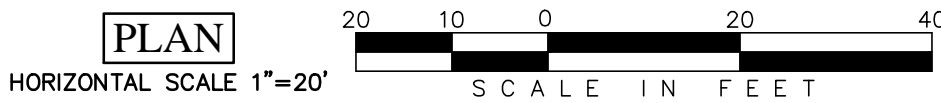
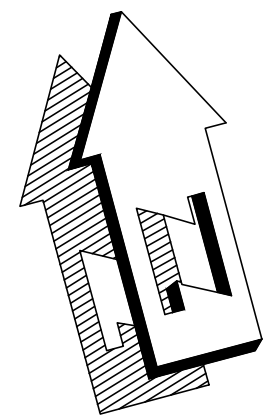
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| CHECKED BY: | MER |
| APPROVED BY: | AJB |
| DATE: | 3/5/2019 |
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| JOB No. | 2019-0032 |
| DRAWING No. | C4.0 |



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| SPOT ELEVATIONS LEGEND | |
|----------------------------|--------------|
| DESCRIPTION | SYMBOL |
| MATCH EXISTING | 24.00 (M.E.) |
| ASPHALT FINISHED GRADE | A-24.00 |
| SIDEWALK FINISHED GRADE | S-24.00 |
| RIBBON CURB FINISHED GRADE | C-24.00 |
| GROUND FINISHED GRADE | D-24.00 |



WRIGHT FAMILY PARK

GRADING AND DRAINAGE PLAN

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| DRAWN BY: | AEA |
| CHECKED BY: | MER |
| APPROVED BY: | AJB |
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| SCALE: | AS SHOWN |
| JOB No. | 2019-0032 |
| DRAWING No. | |

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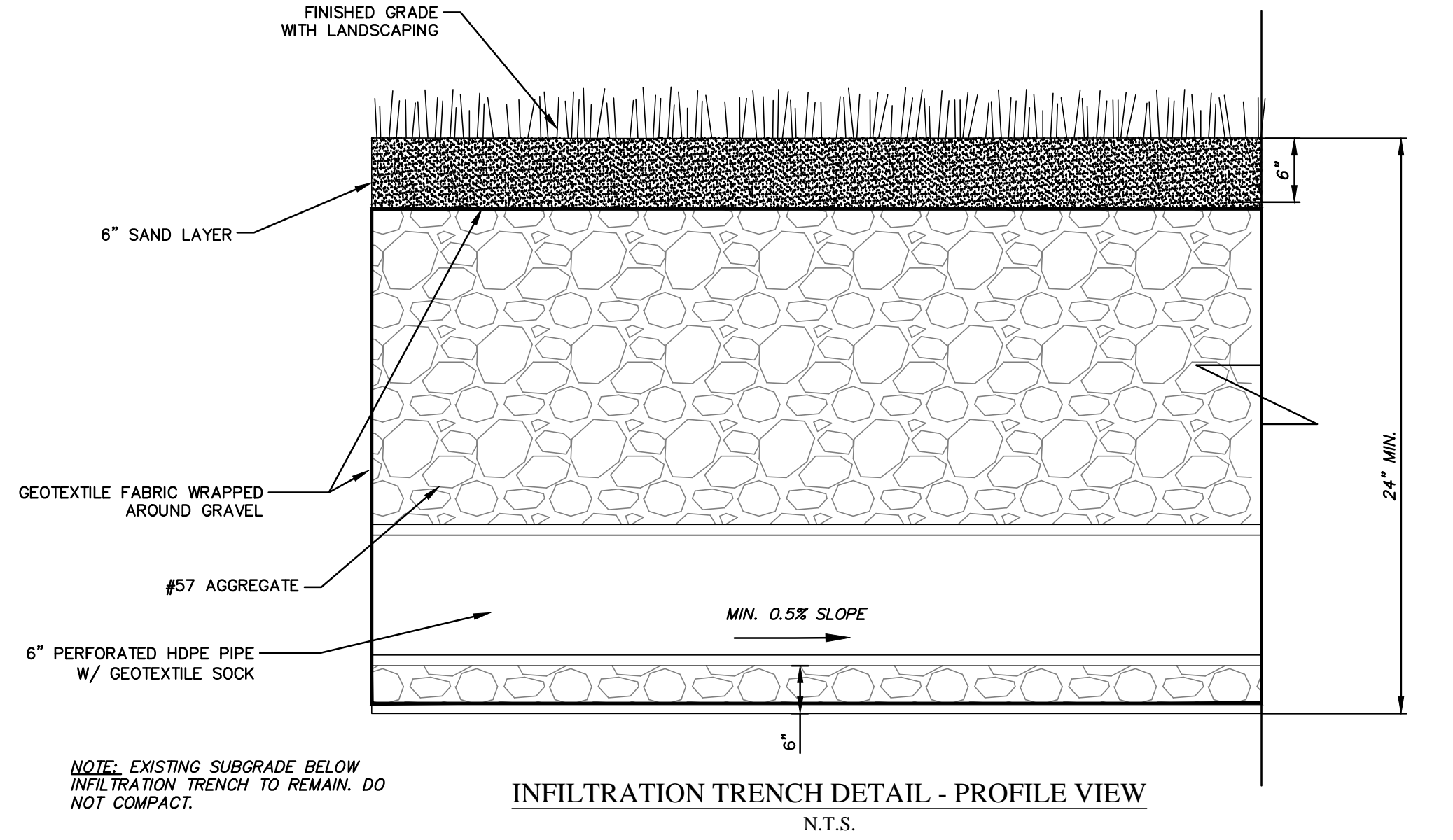


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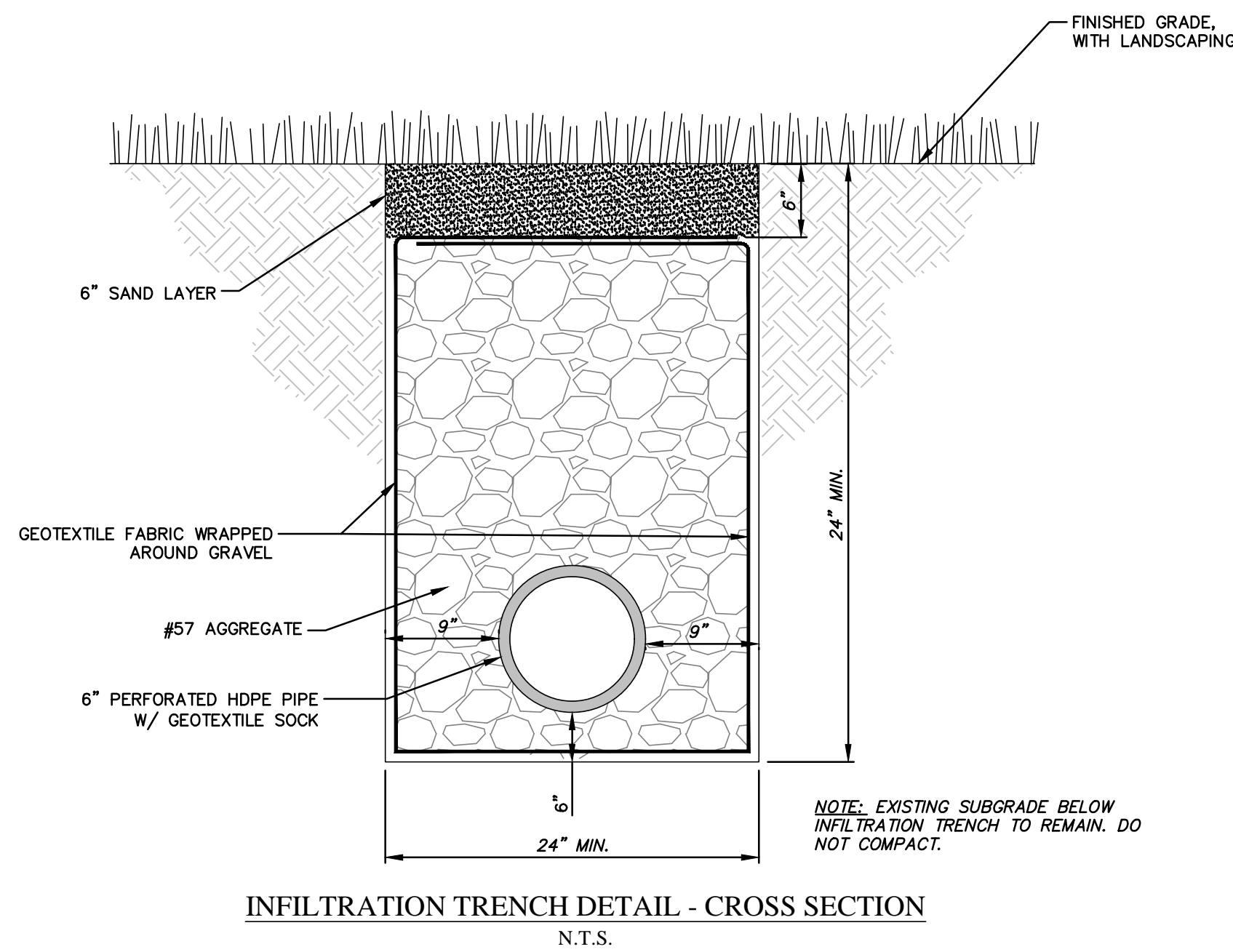
14 Westbury Park Way, Suite 202, Bluffton, SC 29910
Telephone 843-815-3191
mail@CranstonEngineering.com

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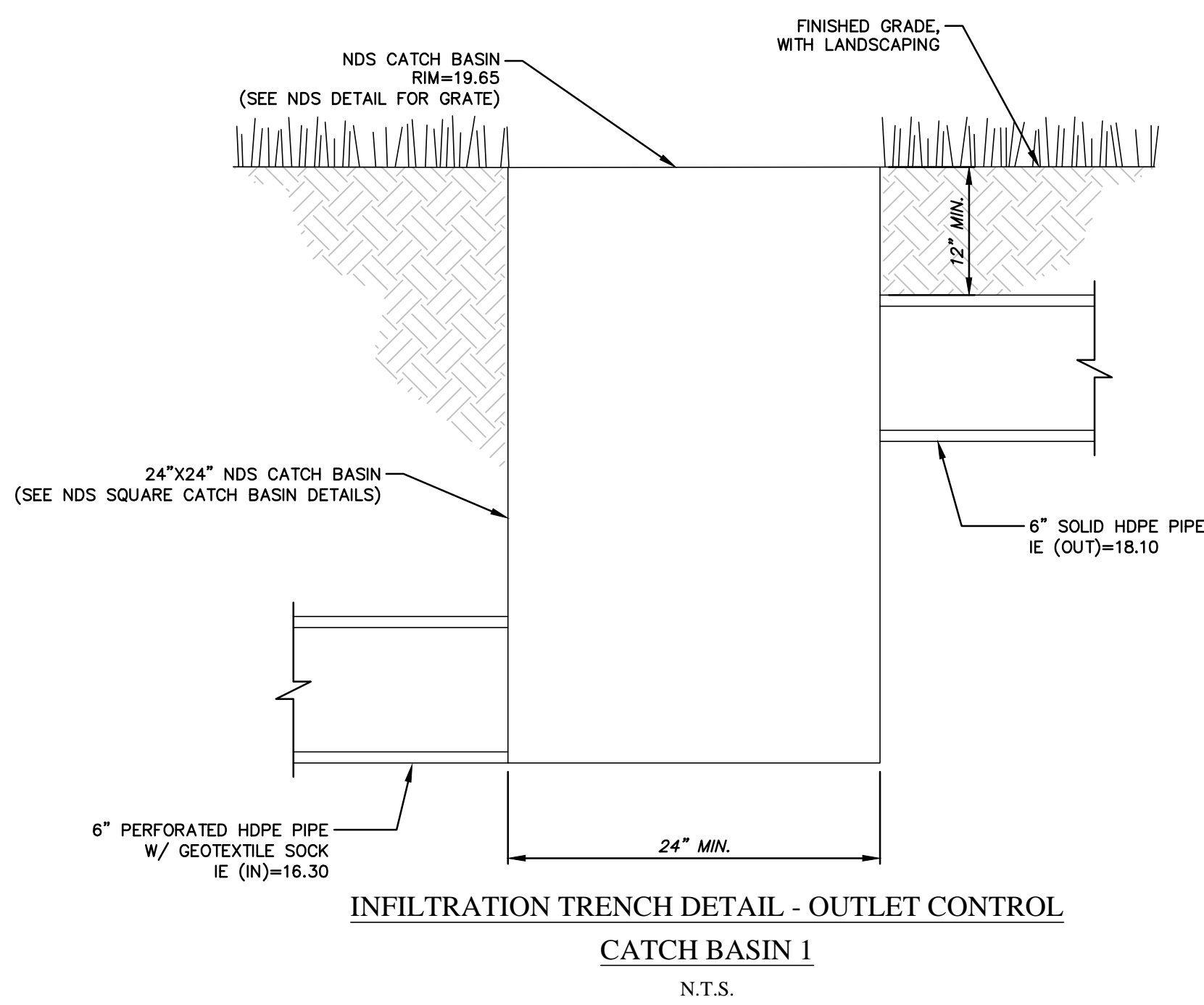


NOTE: EXISTING SUBGRADE BELOW INFILTRATION TRENCH TO REMAIN. DO NOT COMPACT.

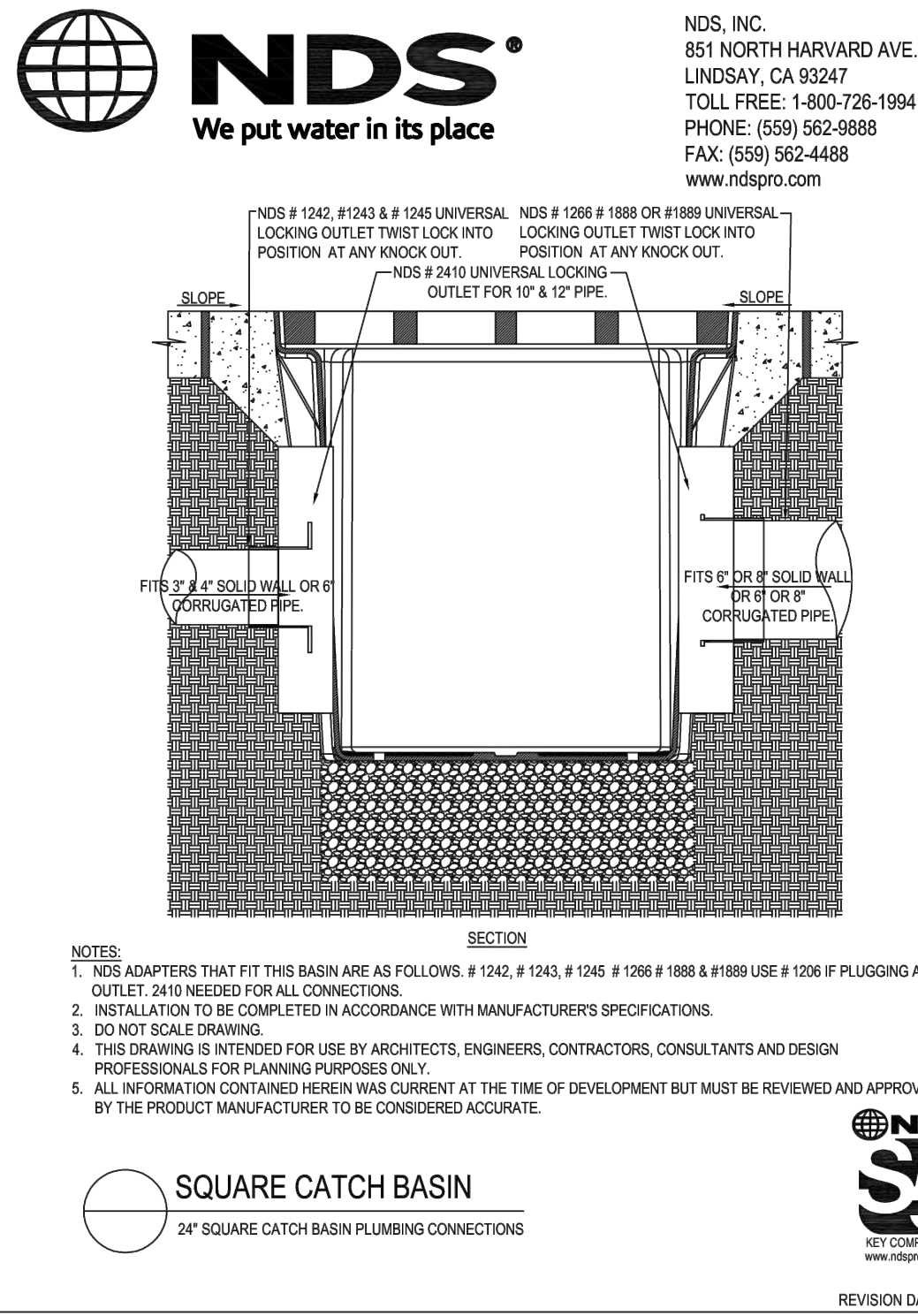
INFILTRATION TRENCH DETAIL - PROFILE VIEW
N.T.S.



INFILTRATION TRENCH DETAIL - CROSS SECTION
N.T.S.



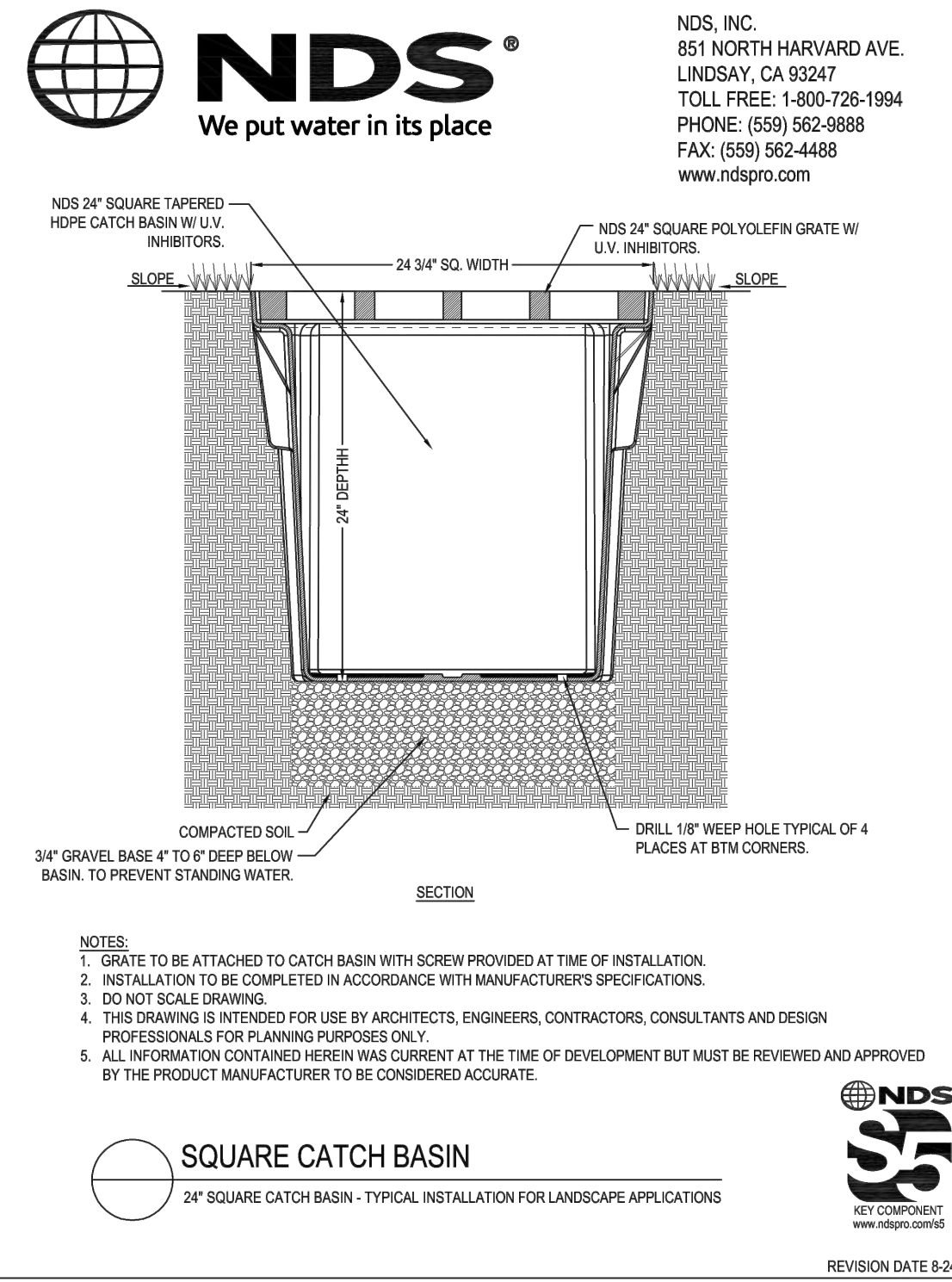
INFILTRATION TRENCH DETAIL - OUTLET CONTROL
CATCH BASIN 1
N.T.S.



SQUARE CATCH BASIN
24" SQUARE CATCH BASIN PLUMBING CONNECTIONS



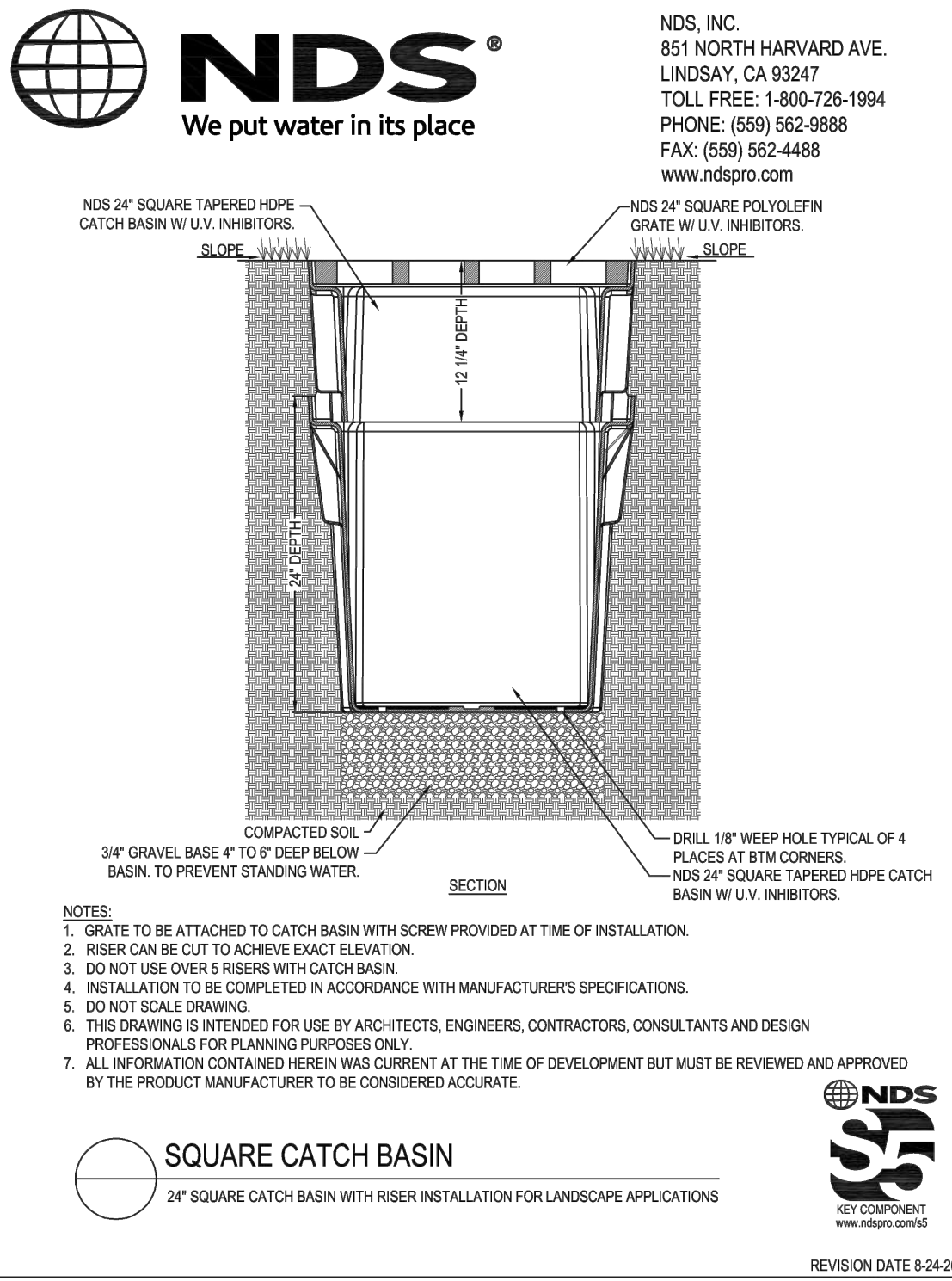
REVISION DATE 8-24-2015



SQUARE CATCH BASIN
24" SQUARE CATCH BASIN - TYPICAL INSTALLATION FOR LANDSCAPE APPLICATIONS



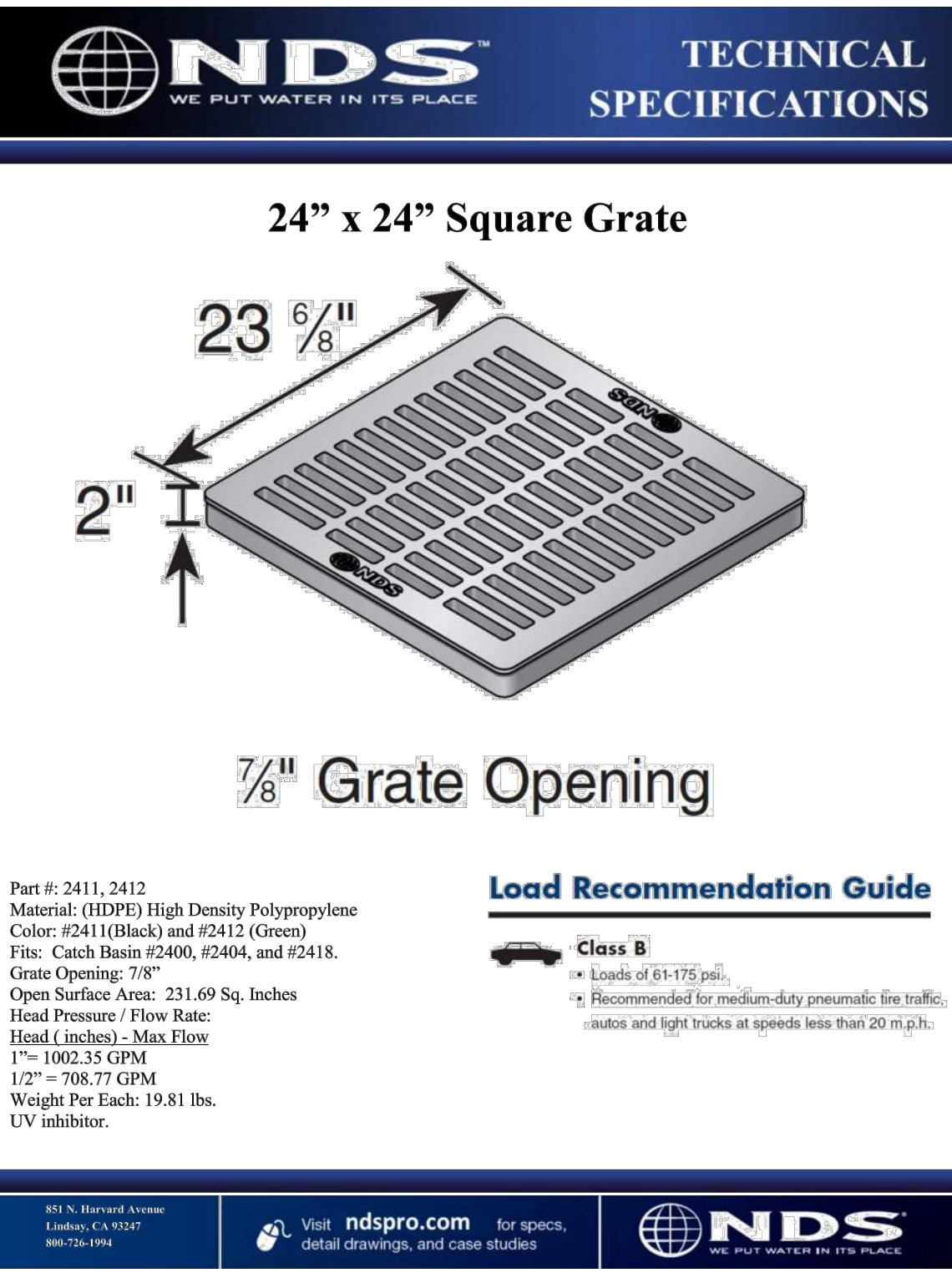
REVISION DATE 8-24-2015



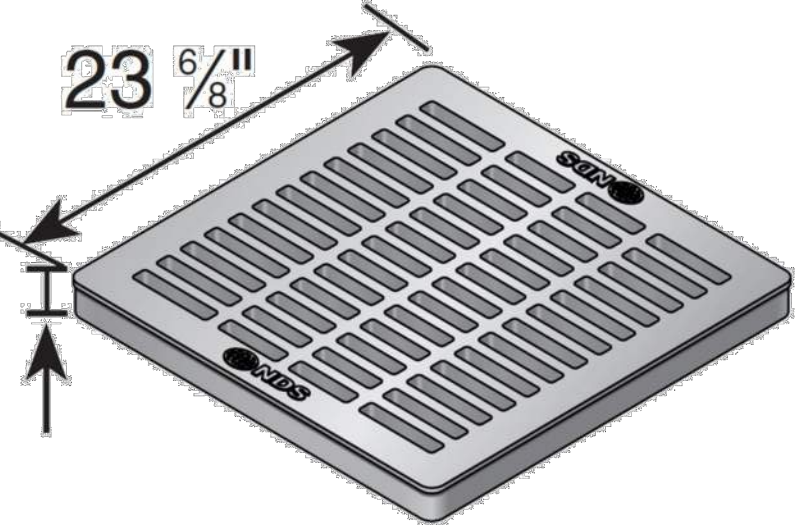
SQUARE CATCH BASIN
24" SQUARE CATCH BASIN WITH RISER INSTALLATION FOR LANDSCAPE APPLICATIONS



REVISION DATE 8-24-2015



24" x 24" Square Grate



7/8" Grate Opening

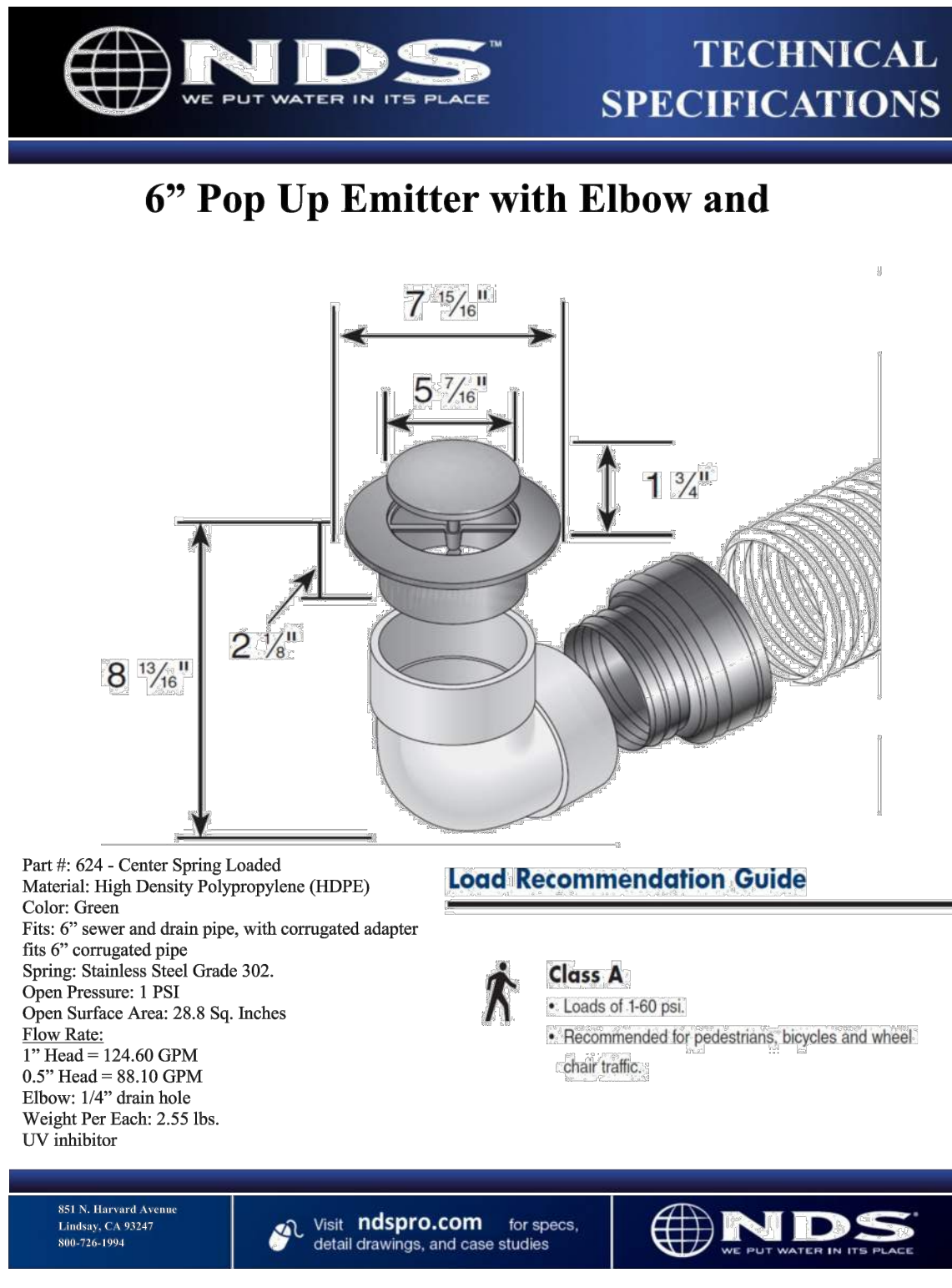
Part #: 2411, 2412
Material: (HDPE) High Density Polypropylene
Color: #2411(Black) and #2412 (Green)
Fits: Catch Basins #2400, #2404, and #2418.
Grate Opening: 7/8"
Open Surface Area: 23.69 Sq. Inches
Head Pressure / Flow Rate:
1" = 1002.35 GPM
1/2" = 708.77 GPM
Weight Per Each: 19.81 lbs.
UV inhibitor.

Load Recommendation Guide

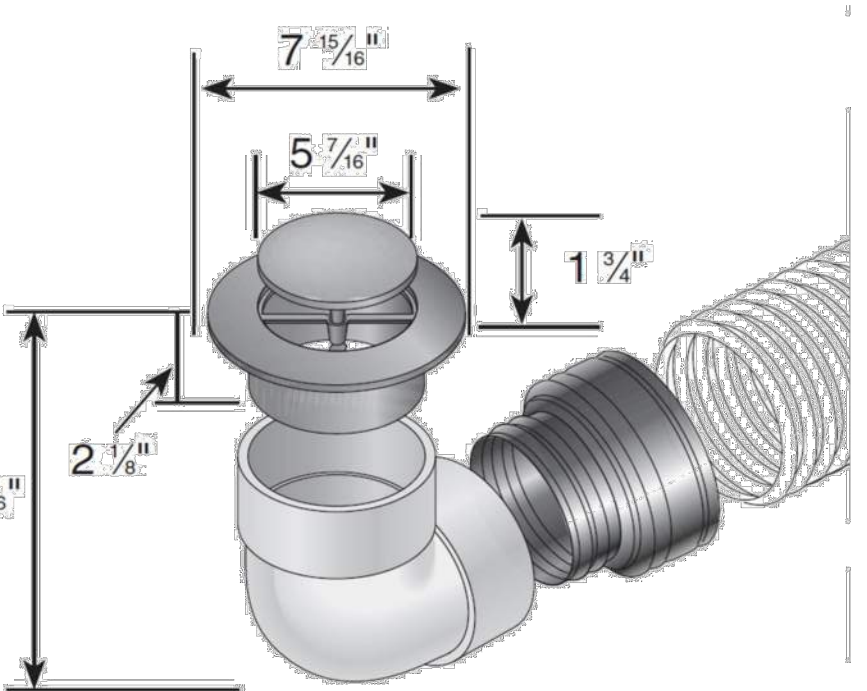
- Class B**
- Loads of 61-175 psi.
 - Recommended for medium-duty pneumatic tire traffic, autos and light trucks at speeds less than 20 m.p.h.

851 N. Harvard Avenue
Lindsay, CA 93247
800-726-1994

Visit ndspro.com for specs, detail drawings, and case studies



6" Pop Up Emitter with Elbow and



Part #: 624 - Center Spring Loaded
Material: High Density Polypropylene (HDPE)
Color: Green
Fits: 6" sewer and drain pipe, with corrugated adapter fits 6" corrugated pipe
Spring: Stainless Steel Grade 302
Open Pressure: 1 PSI
Open Surface Area: 28.8 Sq. Inches
Flow Rate:
1" Head = 124.60 GPM
0.5" Head = 88.10 GPM
Elbow: 1/4" drain hole
Weight Per Each: 2.55 lbs.
UV inhibitor

Load Recommendation Guide

- Class A**
- Loads of 140 psi
 - Recommended for pedestrians, bicycles and wheel chair traffic

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Visit ndspro.com for specs, detail drawings, and case studies



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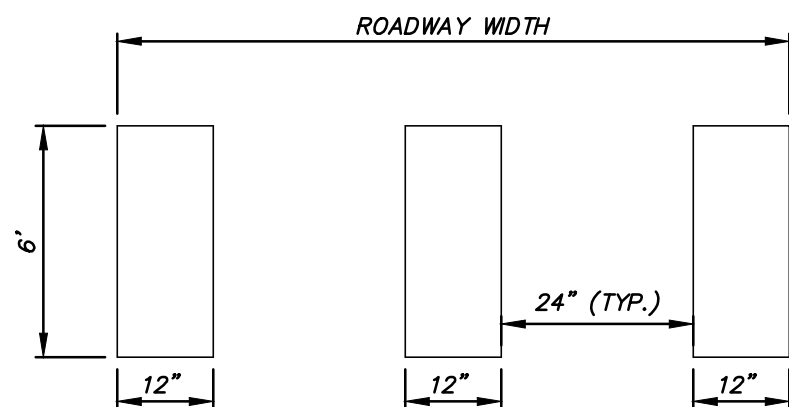
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| 1 | 3/5/2019 | BID AND PERMIT PLANS |

WRIGHT FAMILY PARK
SITE & DRAINAGE
DETAILS

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| DRAWN BY: | AEA |
| CHECKED BY: | MER |
| APPROVED BY: | AJB |
| DATE: | 3/5/2019 |
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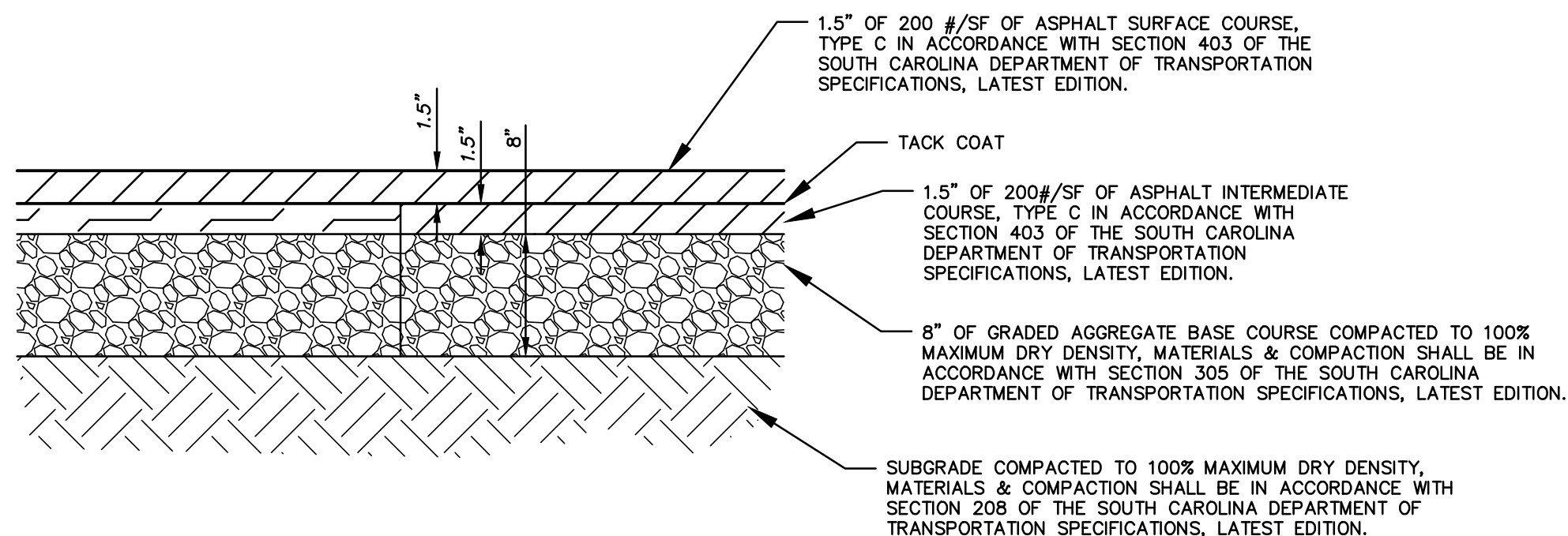
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CROSSWALK STRIPING DETAIL

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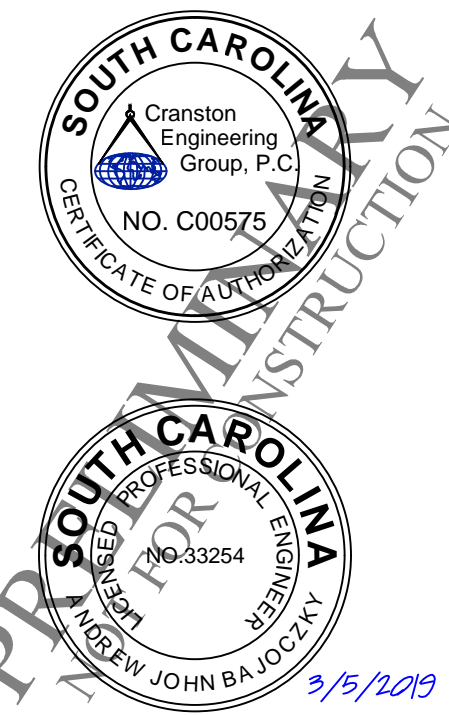


N.T.S.

- 1.5" OF 200#/SF OF ASPHALT INTERMEDIATE COURSE, TYPE C IN ACCORDANCE WITH SECTION 403 OF THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION.

GRADE COMPACTED TO 100% MAXIMUM DRY DENSITY,
MATERIALS & COMPACTION SHALL BE IN ACCORDANCE WITH
SECTION 208 OF THE SOUTH CAROLINA DEPARTMENT OF
TRANSPORTATION SPECIFICATIONS, LATEST EDITION.

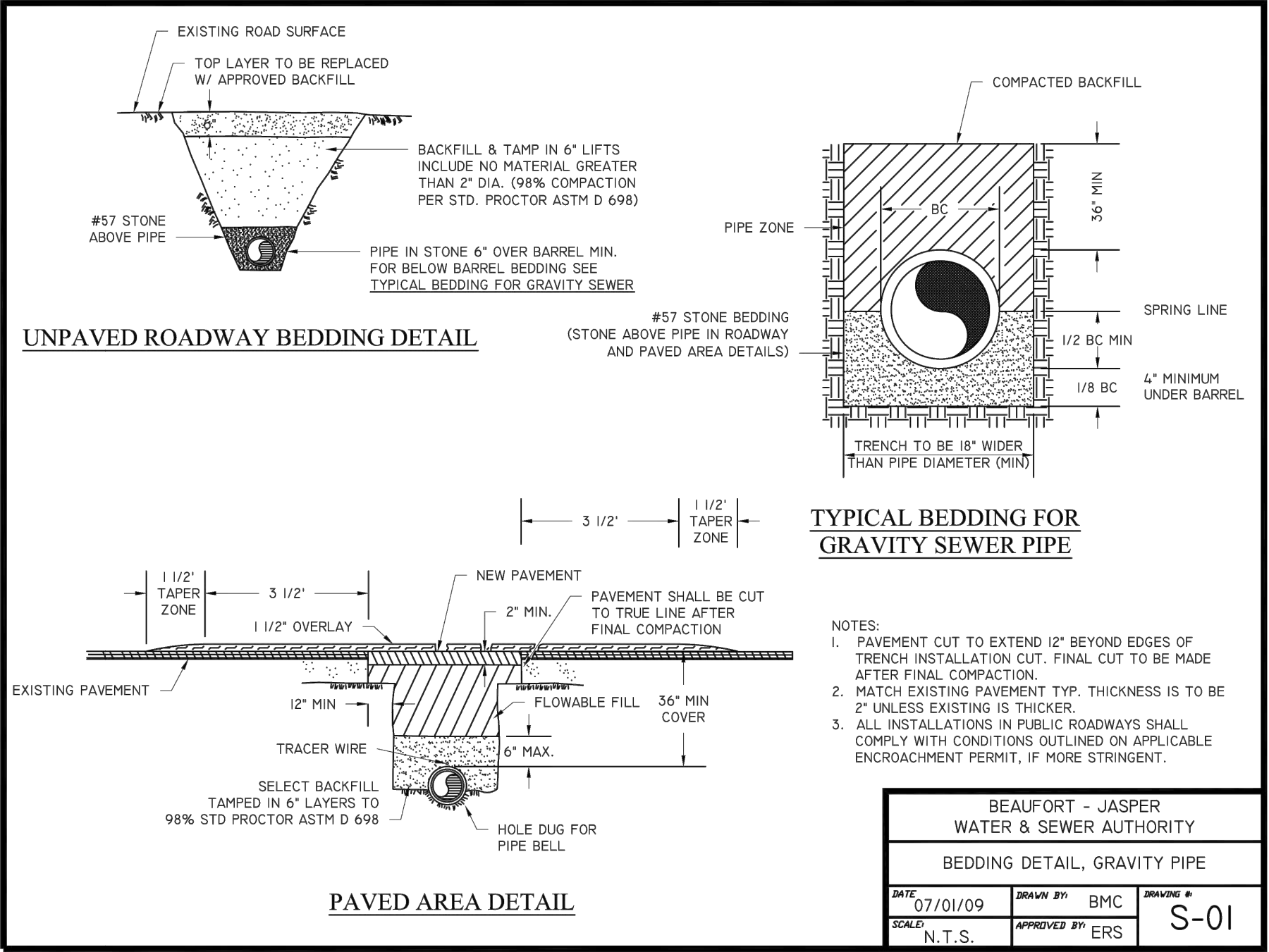
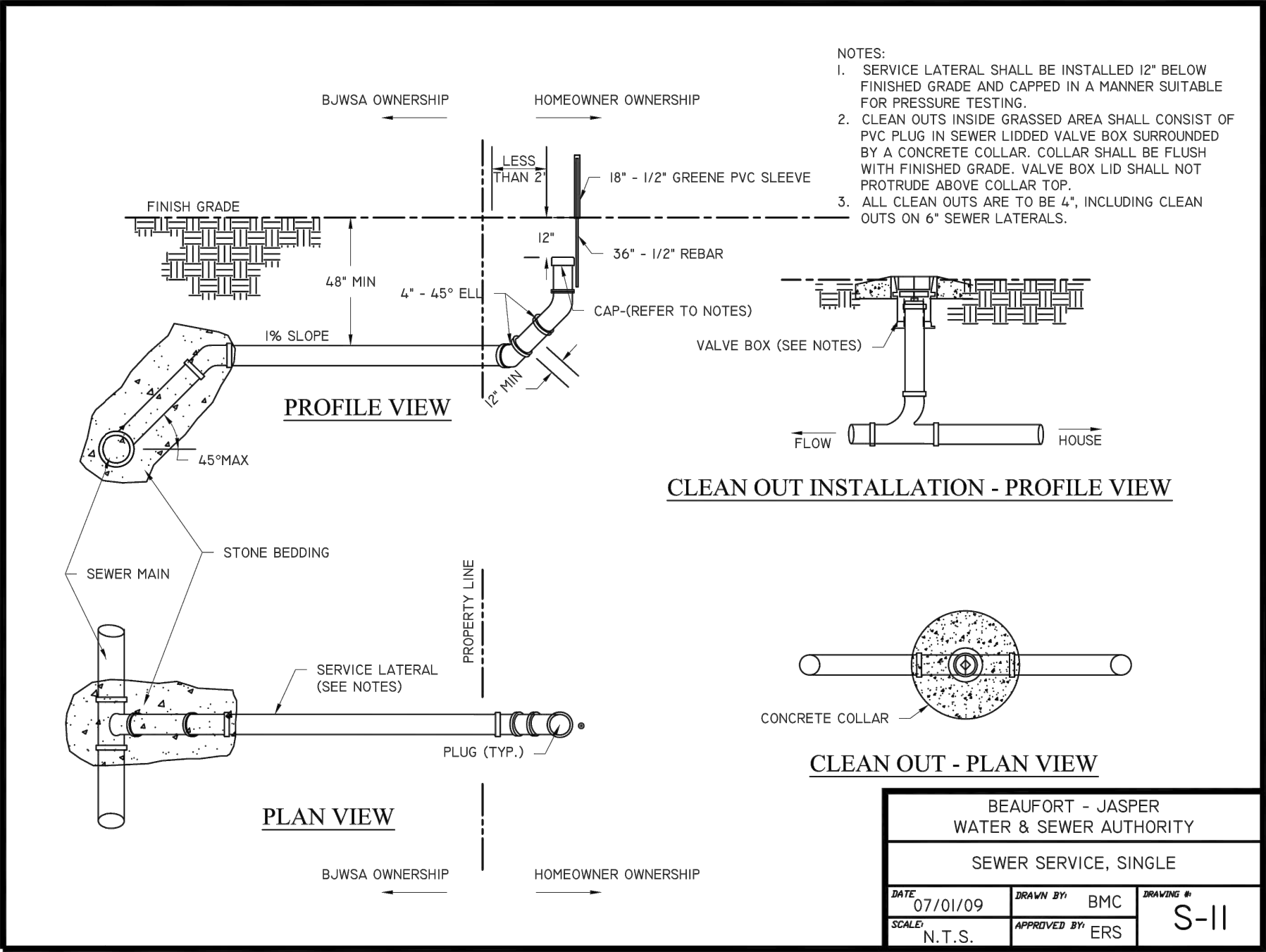
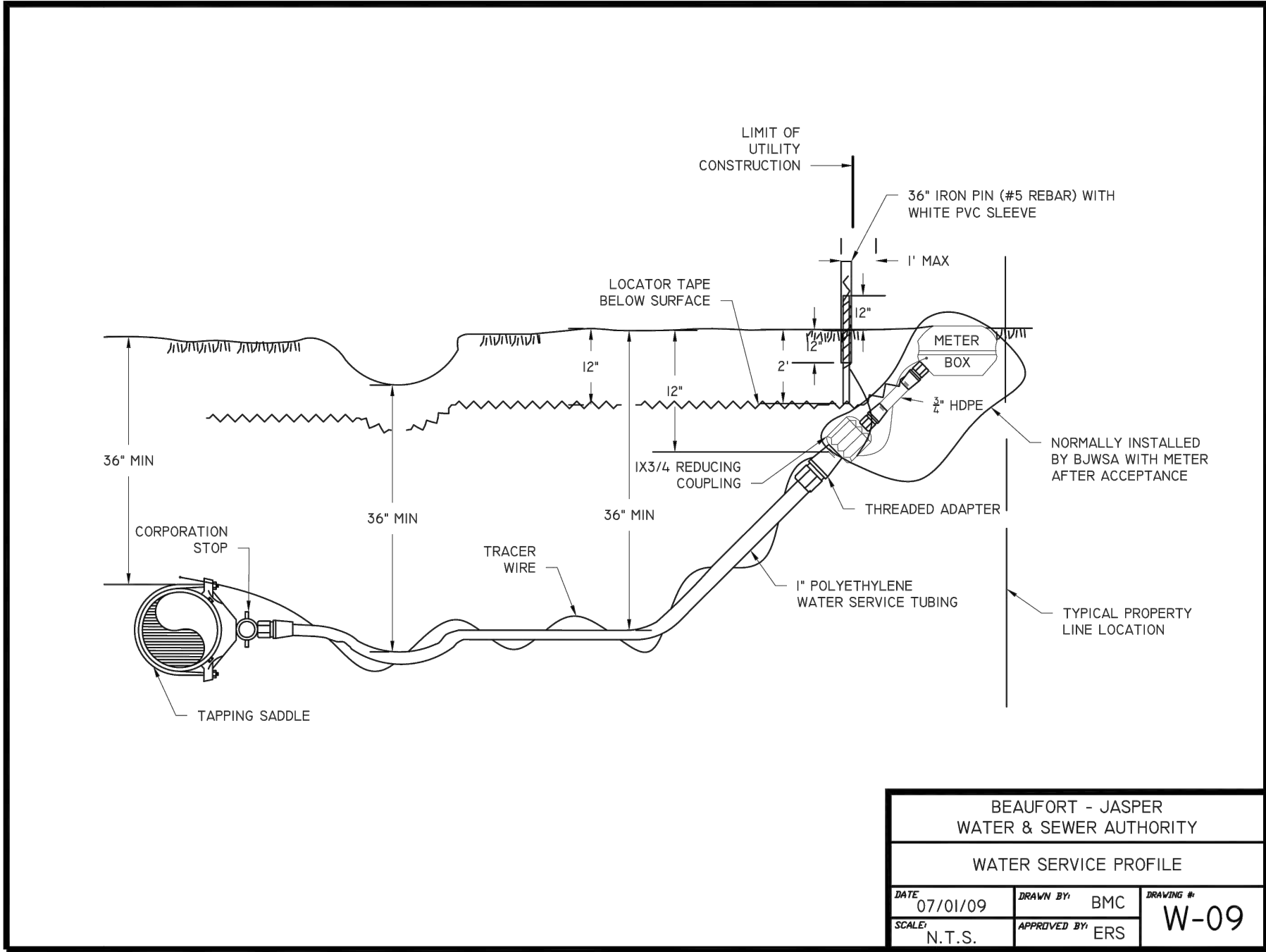
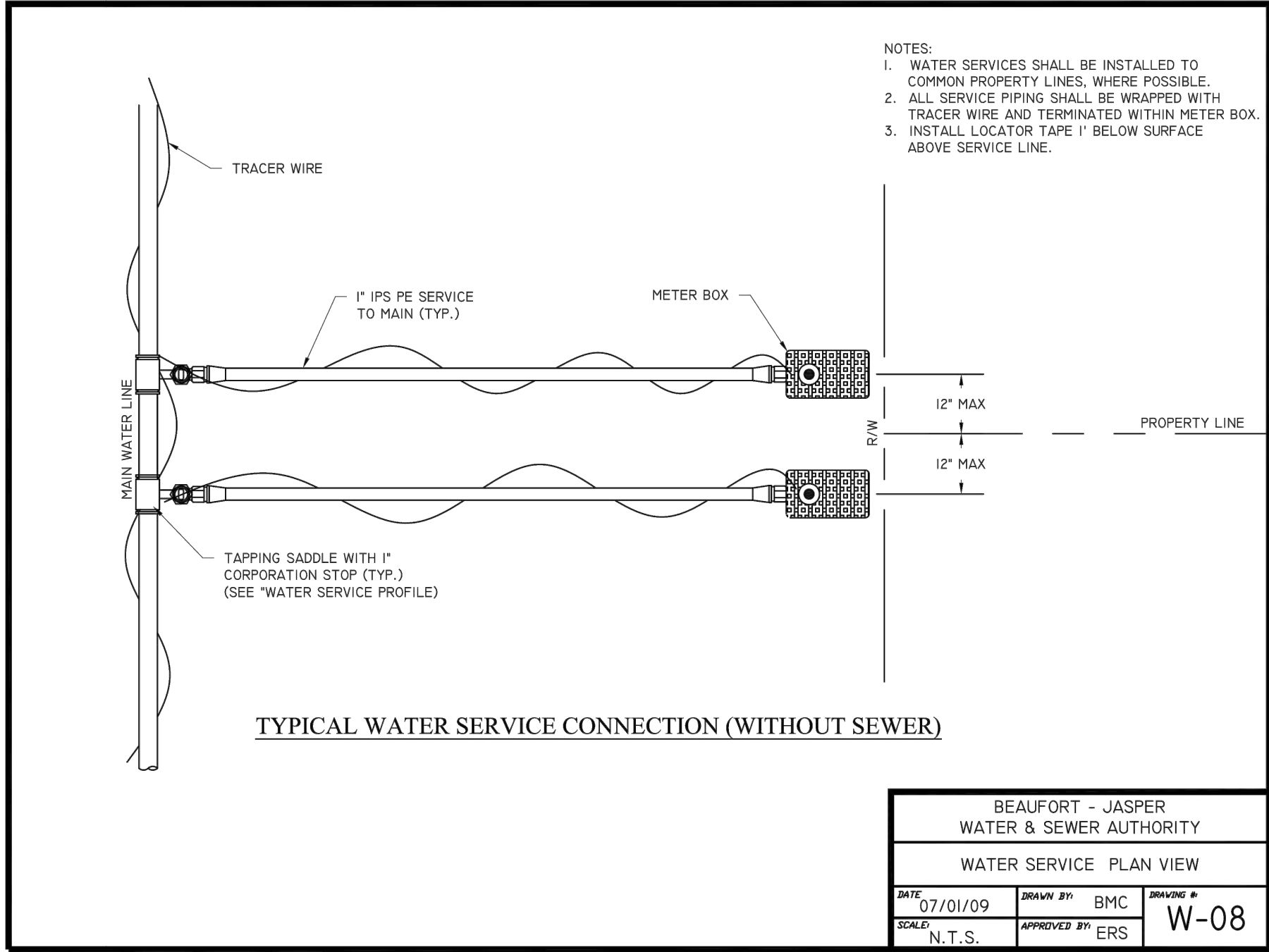
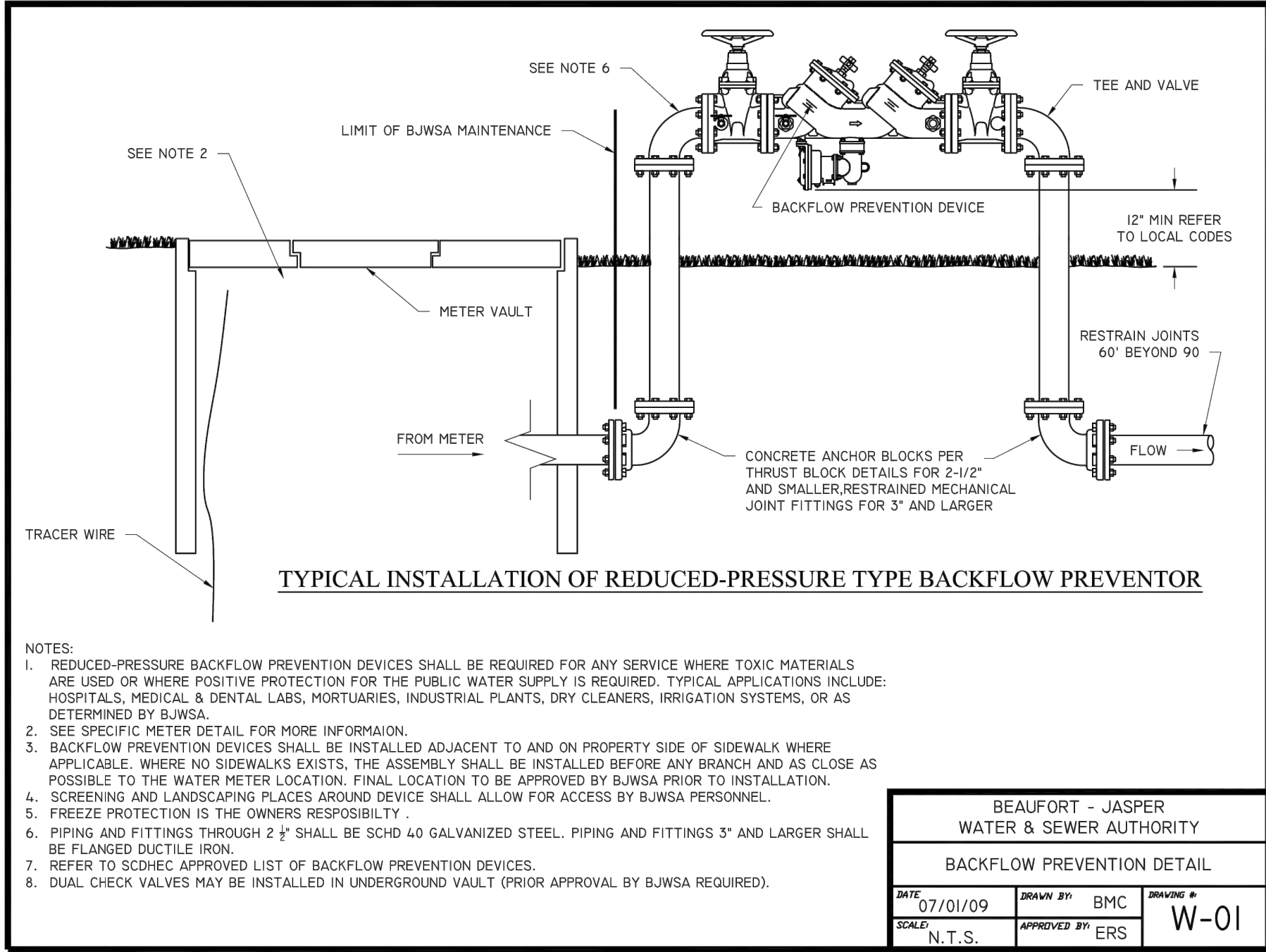
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WRIGHT FAMILY PARK

UTILITY PLAN

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| DRAWN BY: | AEA |
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SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
NO. C00575
3/5/2019

| REV # | DATE | DESCRIPTION |
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| 1 | 3/5/2019 | BID AND PERMIT PLANS |

WRIGHT FAMILY PARK

UTILITY DETAILS

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| DRAWN BY: | AEA |
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| DRAWING No. | |

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