

FLOODPLAIN NOTE
THERE IS NO FLOODPLAIN ON THIS PROPERTY FROM A WATER COURSE WITH A DRAINAGE AREA EXCEEDING 100 ACRES.

WETLAND NOTE
THERE ARE NO WETLANDS ON THIS SITE.

STORM WATER MANAGEMENT NOTE
STORM WATER MANAGEMENT FOR THIS PROJECT IS PROVIDED ON-SITE.

STATE WATERS BUFFER NOTE
THERE ARE NO STATE WATERS BUFFERS ON OR WITHIN 200 FEET OF THIS PROPERTY.

WETLAND CERTIFICATE
WETLAND CERTIFICATION: THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, 2) THE APPROPRIATE PLAN SHEET DOES NOT INDICATE AREAS OF U.S. ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS; AND 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION (SECTION 404) PERMIT HAS BEEN OBTAINED.

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY FANNIN COUNTY OF 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

SITE DEVELOPMENT PLANS

FOR

BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

1600 BALLEWTOWN ROAD BLUE RIDGE, GEORGIA 30513

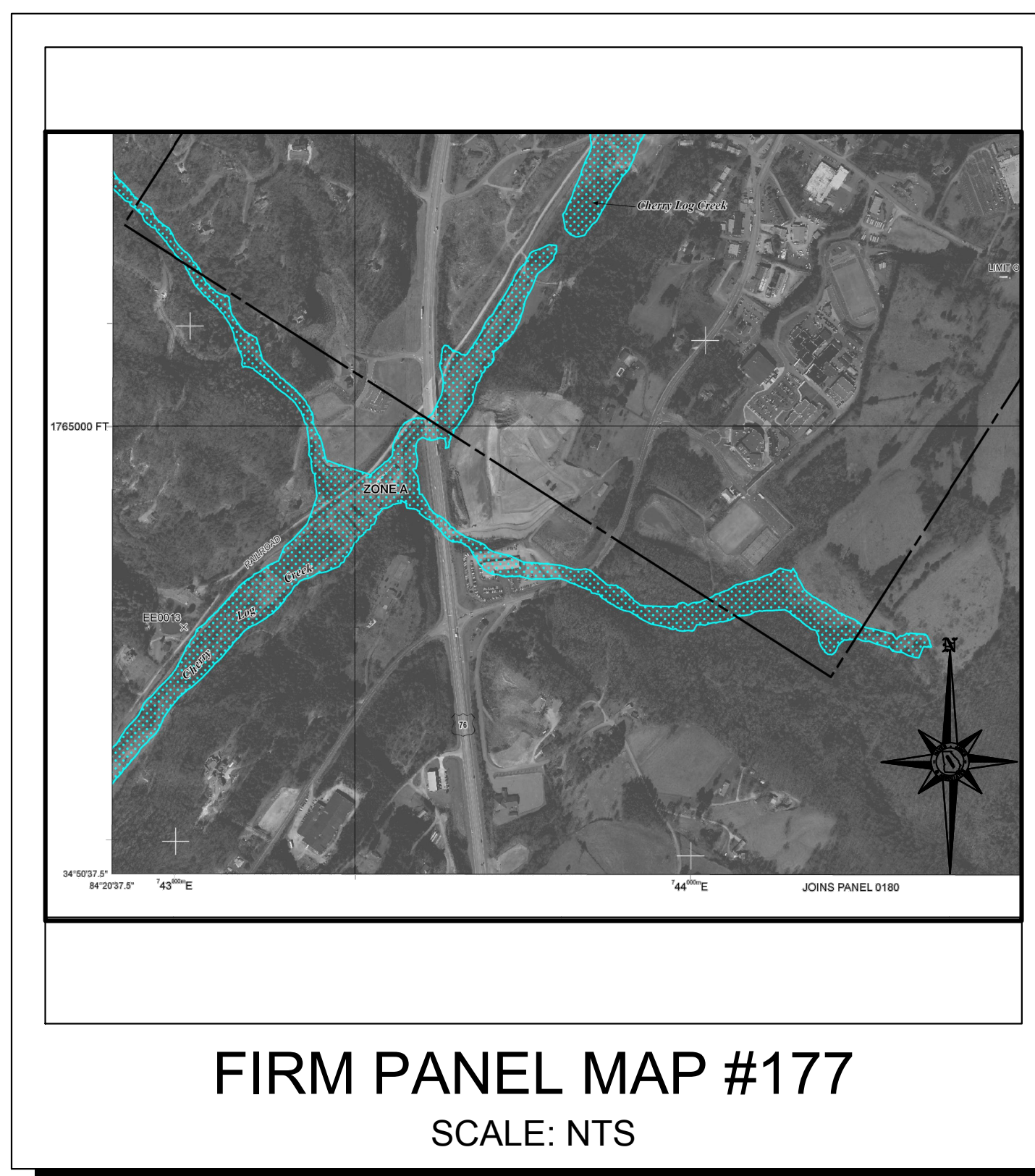
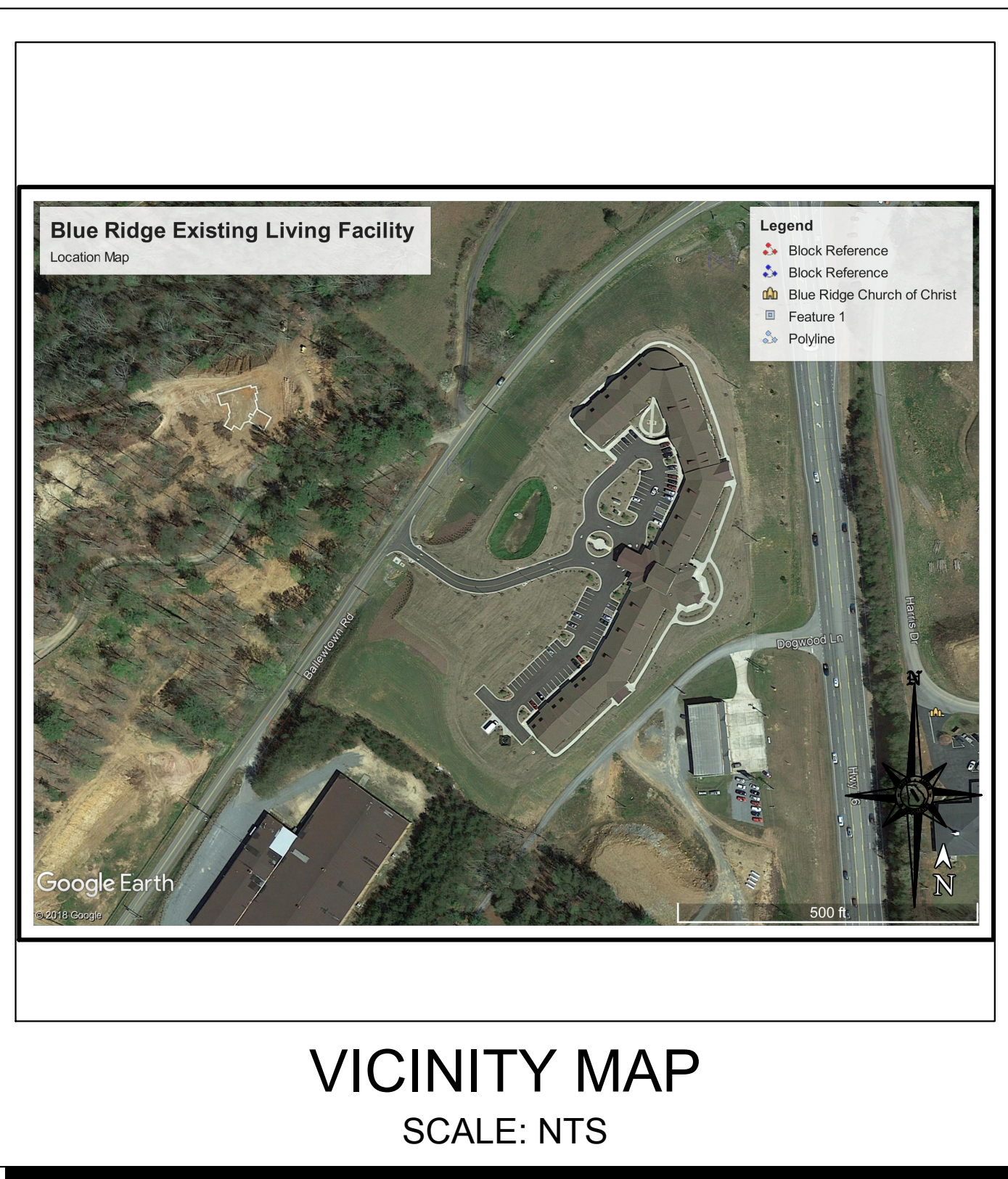
LAND LOT 28 / 7TH-2ND DISTRICT / PARCEL ID 0054 A 018 1A

FANNIN COUNTY

PHASE II CONSTRUCTION

DEVELOPER
BRGA PROPERTY VENTURE, LLC
27599 RIVERVIEW CENTER BLVD., SUITE 201
BONITA SPRINGS, FL
TAMMY KAMINSKI
PHONE: (239) 908-2921

24 HOUR CONTACT FOR
EROSION CONTROL
REID DYER
(706) 632-4981



SITE VISIT CERTIFICATION
I CERTIFY THAT PRIOR TO THE DESIGN OF EROSION CONTROL PLANS I OR A REPRESENTATIVE UNDER MY SUPERVISION VISITED THE SITE.

REID W. DYER
GA RLA #1014
LEVEL II CERTIFIED DESIGN PROFESSIONAL
#06911

01/30/2018

TOTAL AREA = 9.73 ACRES
DISTURBED AREA = 2.49 ACRES

PROJECT DESCRIPTION
EXISTING CONDITIONS CONTAIN ONE ASSISTED LIVING RESIDENTIAL BUILDING. THE GROUNDS ARE CLEARED AND LANDSCAPED WITH SOME DRAINAGE AREAS. THE AREA HAS PRE-DEVELOPED UTILITIES THAT SERVICE THE HOUSING. THE PROJECT CONSISTS OF PHASE II CONSTRUCTION AND DEMOLITION. THE ADJACENT LOTS TO THE EAST ARE WOODED WITH SOME PAVING FOR DRIVEWAY AND PARKING AREAS. THE LOT NORTH OF THE PROPERTY IS CLEARED OF VEGETATION WITH MAINLY GRASSSED AND GRAVEL AREAS.

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

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.

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



3830 EAST FIRST STREET, SUITE 1
BLUE RIDGE, GEORGIA 30513

TEL: (706) 632-4981
FAX: (706) 632-4982

CONTACT: REID DYER
HJA PROJECT NO.: 17-0579-C

REVISIONS		
NO.	DESCRIPTION	DATE
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DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION
DATE OF INSPECTION _____
I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

REID DYER, RLA
GSWCC LEVEL II DESIGN PROFESSIONAL
#06911

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN.

THESE DEFICIENCIES MUST BE ADDRESSED WITHIN 2 BUSINESS DAYS AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

Sheet List Table	
Sheet Number	Sheet Title
C-00	COVER
C-01	GENERAL NOTES & LEGEND
C-02	EXISTING CONDITIONS
C-03	DEMOLITION PLAN
C-04	SITE PLAN
C-05	GRADING & DRAINAGE PLAN
C-06	UTILITY PLAN
C-07	UTILITY PROFILES
C-08	EC Phase 1
C-09	EC Phase 2
C-10	EC Phase 3
C-11	ES & PC NOTES
C-12	EROSION CONTROL DETAILS
C-13	EROSION CONTROL DETAILS
C-14	EROSION CONTROL DETAILS
C-15	EROSION CONTROL DETAILS
C-16	WATER-SEWER DETAILS
C-17	WATER-STORM DETAILS
C-18	STORM DETAILS
C-19	STREET DETAILS



BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION - 17-0579-C

HAYES, JAMES & ASSOCIATES, INC.

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LEGEND

Table with columns PROPOSED, DESCRIPTION, and EXISTING. Lists various symbols and their corresponding descriptions for construction elements like catch basins, manholes, lines, and structures.

GENERAL CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO BOTH PLANS AND SPECIFICATIONS FOR THIS PROJECT... 2. ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF BUILDING, CENTER OF COLUMN, EDGE OF PAVEMENT...

SITE CLEARING & SITE DEMOLITION NOTES

- 1. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNER MONUMENTS AND BENCHMARKS... 2. THE CONTRACTOR SHALL HAVE THE LIMITS OF CLEARING AND DEMOLITION AND ALL BUFFERS STAKED WITH FLAGGING STRING...

REFERENCES

- 1. TOPOGRAPHIC INFORMATION BASED ON A TOPOGRAPHIC WORKSHEET FOR BRGA PROPERTY VENTURE, LLC... 2. BOUNDARY INFORMATION BASED ON A ALTA/ACSM SURVEY FOR BRGA PROPERTY VENTURE, LLC...

UTILITY NOTES

- 1. ALL IMPROVEMENTS TO CONFORM WITH CITY OF BLUE RIDGE CONSTRUCTION STANDARDS AND SPECIFICATIONS (LATEST EDITION)... 2. CONTRACTOR TO NOTIFY CITY OF BLUE RIDGE INSPECTOR DEPARTMENT 24 HOURS PRIOR TO BEGINNING EVERY PHASE OF CONSTRUCTION...

ABBREVIATIONS

Table with three columns listing abbreviations and their full names for construction terms like ACCESS EASEMENT, GAS METER, POINT OF COMMENCEMENT, etc.



NOTE: 1. NOTIFY XXXXX COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (XXX) XXX-XXXX

Hayes James logo and contact information: 3830 EAST FIRST STREET, SUITE 1 BLUE RIDGE, GEORGIA 30513

BRGA PROPERTY VENTURE, LLC contact information: 27599 RIVERVIEW CENTER BLVD., SUITE 201 BONITA SPRINGS, FL

TAMMY KAMINSKI contact information: (239) 908-2921

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Table with columns No., Description, By, App., Date. Contains a grid for tracking project milestones.

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Project Title: BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION. Project Location: 1600 BALLEWTTOWN ROAD, BLUE RIDGE, GEORGIA 30513.

GENERAL NOTES & LEGEND

Sheet Number C-01

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No.	Description	ISSUE	Date	
			By	App.

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Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location
 Address 1600 BALLEWTOWN ROAD
 City, State Zip BLUE RIDGE, GEORGIA 30513
 Land Lot 28
 District-Section 7TH-2ND
 County FANNIN

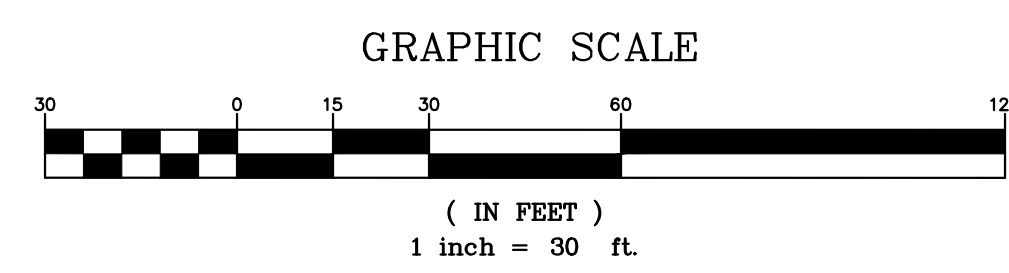
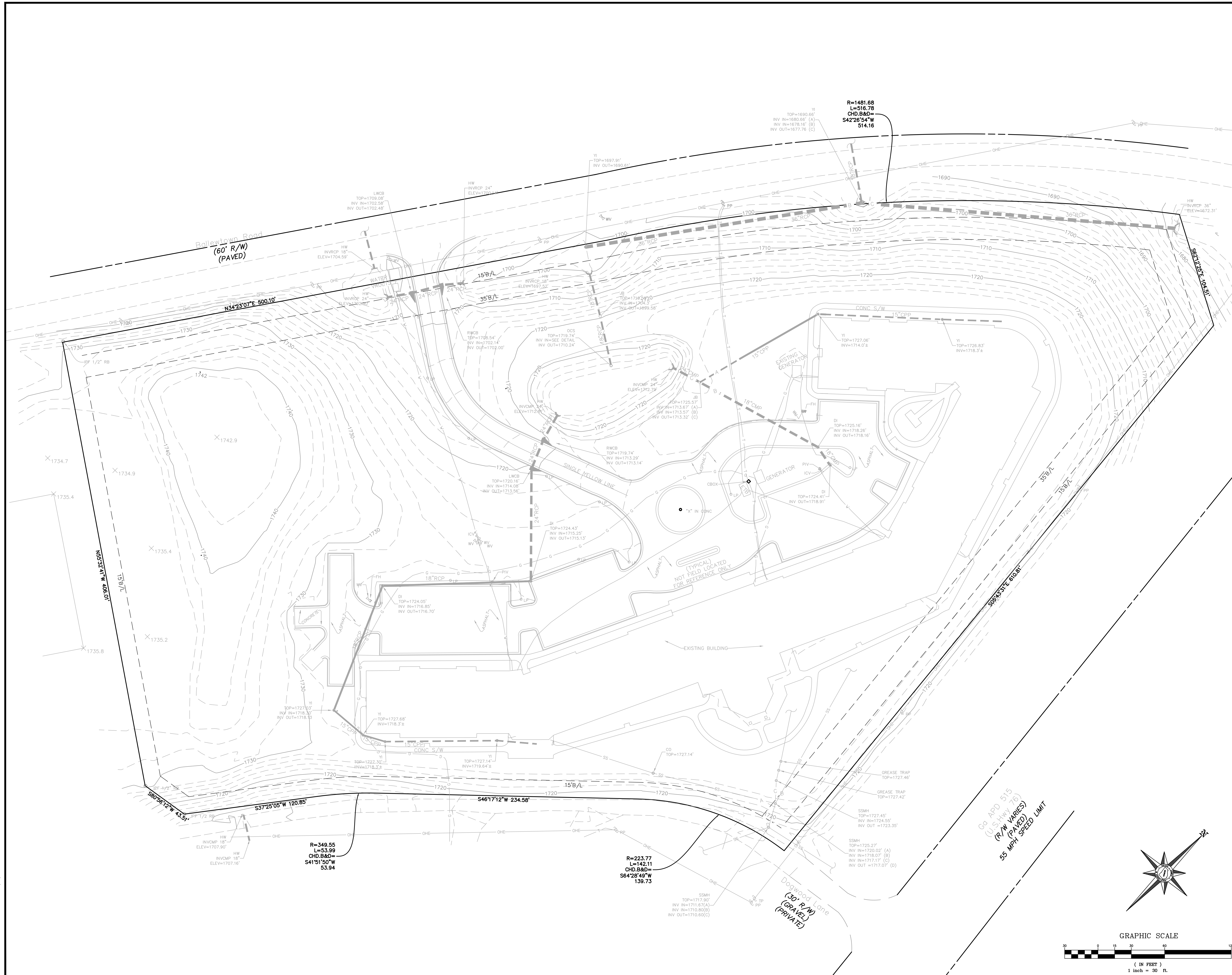
Project No. 17-0579-c
 Drawn By: NCF
 Checked By: SMB
 Initial Issue Date: 02-05-2018

Sheet Title

EXISTING CONDITIONS

Sheet Number

C-02



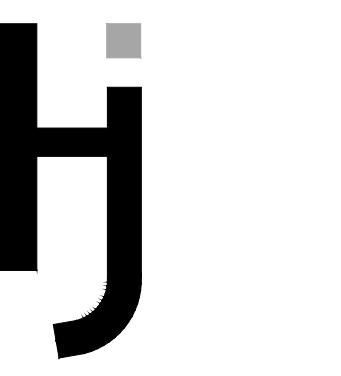
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UTILITY PROVIDERS:

- 1. WATER & SEWER – CITY OF BLUE RIDGE, (706) 632-2091
- 2. POWER – TRI-STATE EMC, (706) 492-3251
- 3. TELEPHONE – ETC, (706) 276-2271
- 4. GAS – FERRELL GAS, (706) 531-8967
- 5. FIBER OPTICS – BALSAM WEST FIBERNET, (828) 399-0558

DEMOLITION NOTES:

- 1. EXISTING SANITARY SEWER SERVICE TO THE COMPLEX MUST BE MAINTAINED DURING CONSTRUCTION.
- 2. EXISTING WATER SERVICE TO THE COMPLEX MUST BE MAINTAINED DURING CONSTRUCTION.
- 3. THE UTILITIES ARE SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE PROJECT SCOPE. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 4. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE MEANS AND METHODS OF RELOCATING EXISTING UTILITIES ON THE DEMOLITION PLAN IN A MANNER THAT MAINTAINS SERVICE TO THE COMPLEX.



Hayes James

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Fax: (239) 908-2960

TAMMY KAMINSKI
(239) 908-2921

GENERAL DEMO NOTE

CONTRACTOR TO REMOVE ALL ABOVEGROUND VEGETATION AND UTILITIES AS NEEDED. CONTRACTOR TO COORDINATE ALL UTILITY RELOCATION OR REMOVAL WITH APPROPRIATE UTILITY COMPANY.

ESPC NOTE

CONTRACTOR SHALL INSTALL ALL APPLICABLE EROSION, SEDIMENT, & POLLUTION CONTROL MEASURES AS SHOWN ON THE INITIAL ESPC PLAN PRIOR TO SITE CLEARING AND DEMOLITION OPERATIONS.

NOTE: SEE ELECTRICAL PLANS FOR NOTES AND SPECIFICATIONS REGARDING THE REMOVAL OF ANY SITE ELECTRICAL LINES, POLES, BOXES, ETC.

NOTE: CONTRACTOR SHALL PROTECT EXISTING BUILDINGS ON SITE DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN ACCESS THROUGH PARKING LOT AND AT ENTRANCES AND MAINTAIN ACCESS TO EXISTING BUILDINGS. CONTRACTOR SHALL COORDINATE WITH OWNER IF ACCESS POINTS NEED TO BE TEMPORARILY DISRUPTED DURING CONSTRUCTION.

DEMOLITION LEGEND

- CONCRETE CURB TO BE REMOVED
- ASPHALT TO BE REMOVED
- UTILITIES TO BE REMOVED
- CONCRETE SIDEWALK TO BE REMOVED
- UTILITY STRUCTURE TO BE REMOVED

GENERAL DEMO NOTE

CONTRACTOR TO REMOVE ALL ABOVEGROUND VEGETATION AND UTILITIES AS NEEDED. CONTRACTOR TO COORDINATE ALL UTILITY RELOCATION OR REMOVAL WITH APPROPRIATE UTILITY COMPANY.

NOTE: SEE ELECTRICAL PLANS FOR NOTES AND SPECIFICATIONS REGARDING THE REMOVAL OF ANY SITE ELECTRICAL LINES, POLES, BOXES, ETC.

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Date	By	App.	Issue	Description	No.

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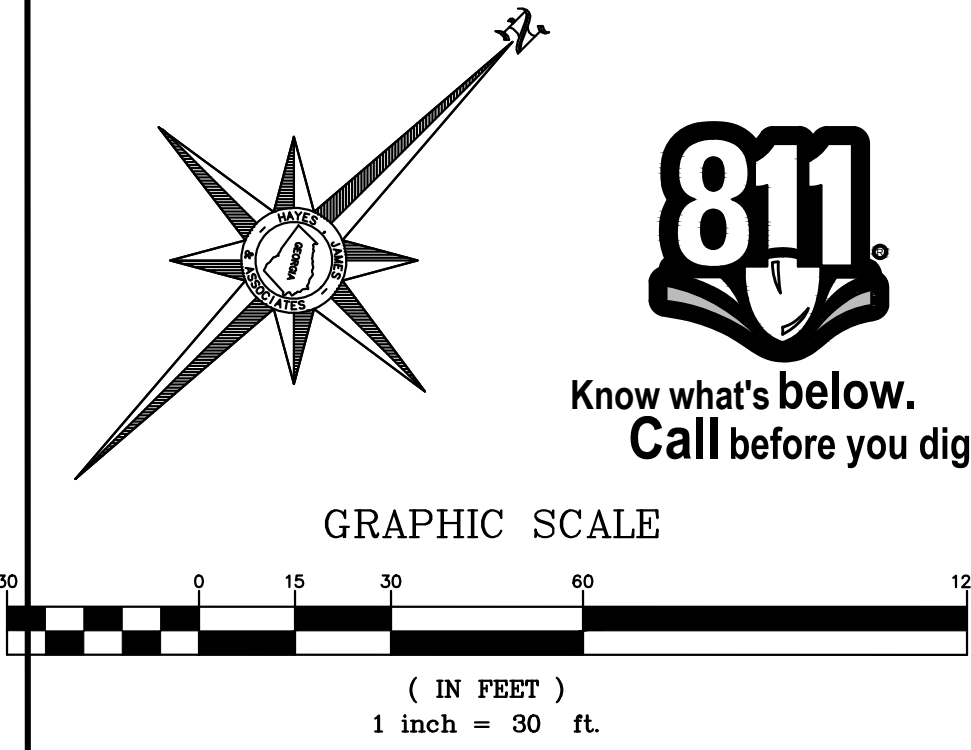
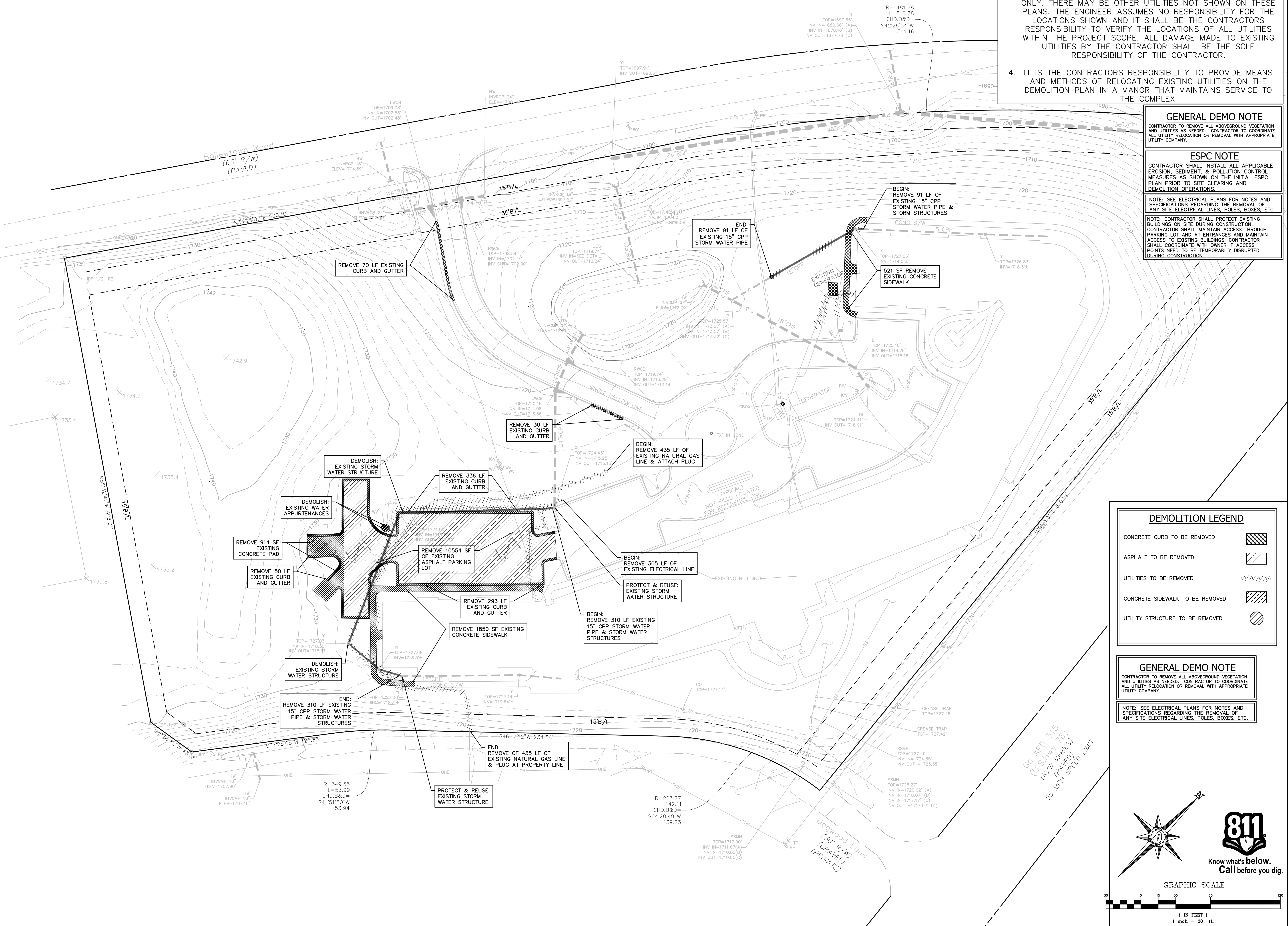
Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

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City, State Zip BLUE RIDGE, GEORGIA 30513
Land Lot 28
District-Section 7TH-2ND
County FANNIN

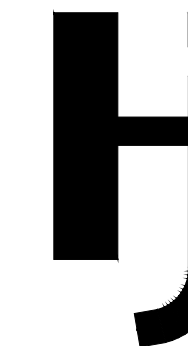
Project No. 17-0579-c
Drawn By: NCF
Checked By: SMB
Initial Issue Date: 02-05-2018

Sheet Title
DEMOLITION PLAN

Sheet Number
C-03



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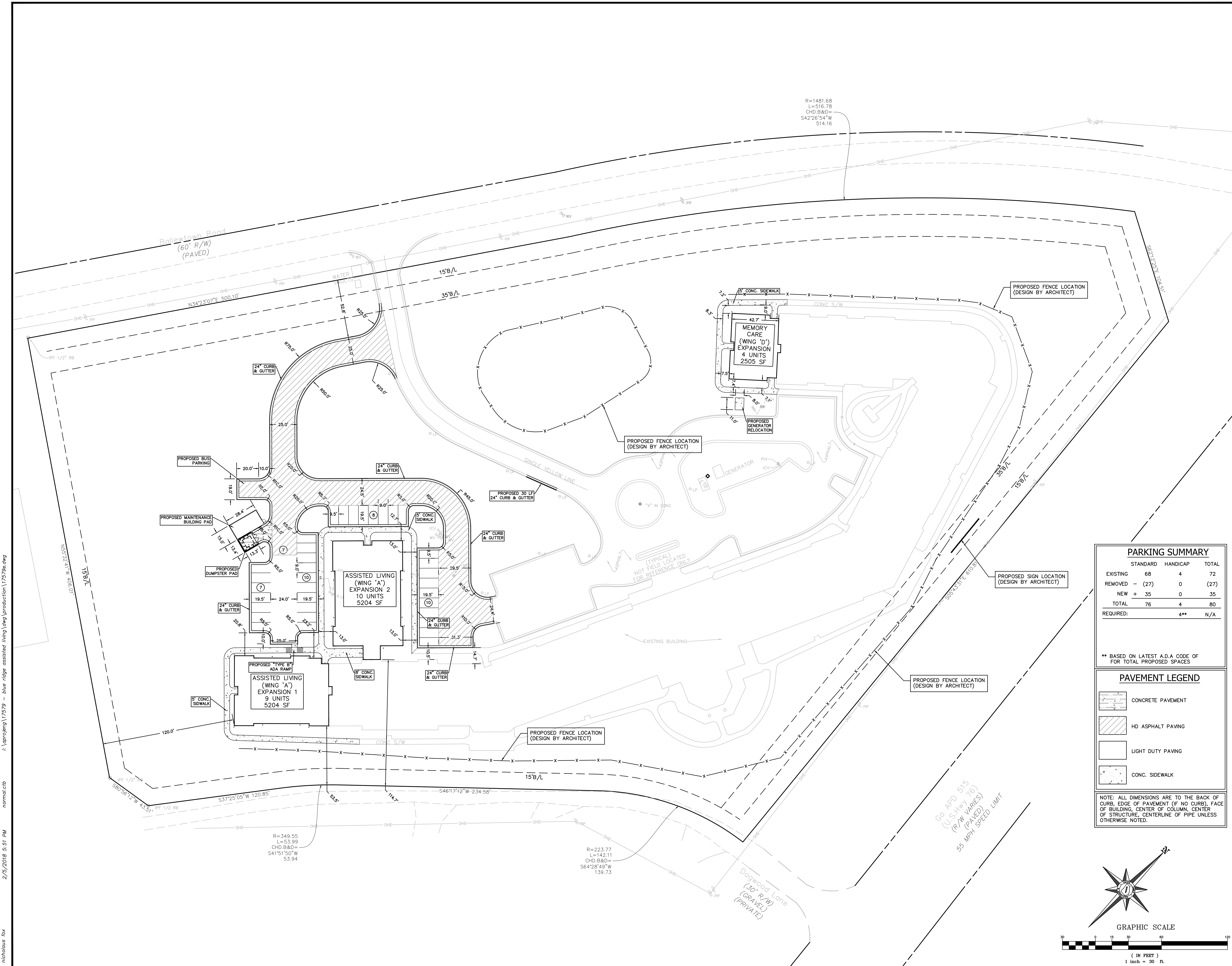


Hayes James

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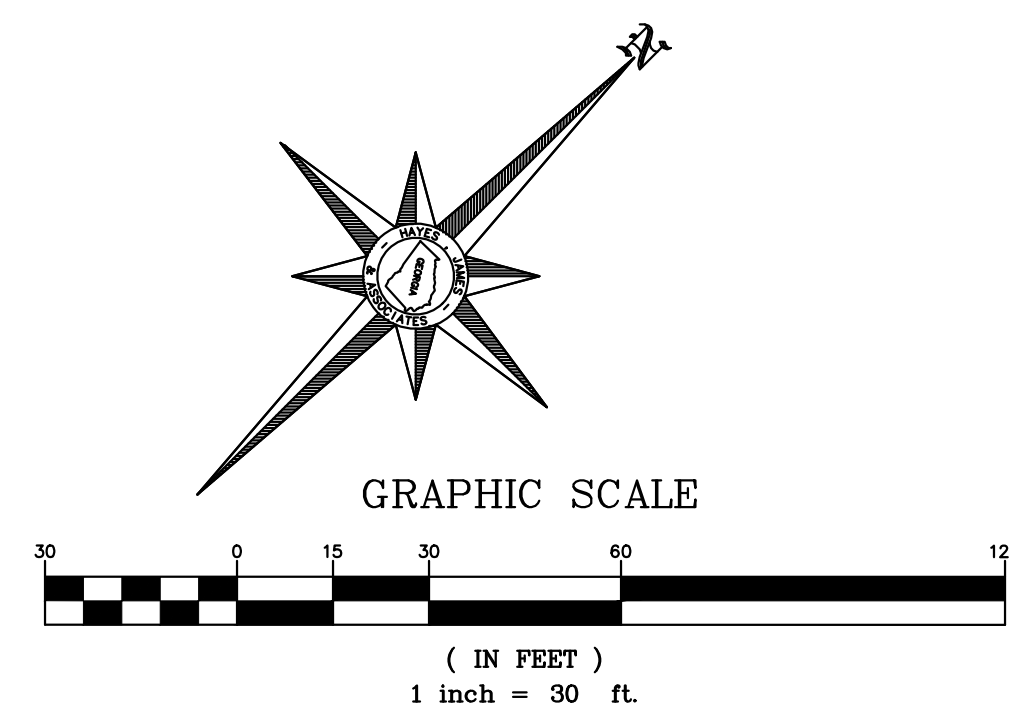


PARKING SUMMARY			
	STANDARD	HANDICAP	TOTAL
EXISTING	68	4	72
REMOVED	(27)	0	(27)
NEW	+ 35	0	35
TOTAL	76	4	80
REQUIRED:		4**	N/A

** BASED ON LATEST A.D.A CODE OF FOR TOTAL PROPOSED SPACES

PAVEMENT LEGEND	
	CONCRETE PAVEMENT
	HD ASPHALT PAVING
	LIGHT DUTY PAVING
	CONC. SIDEWALK

NOTE: ALL DIMENSIONS ARE TO THE BACK OF CURB, EDGE OF PAVEMENT (IF NO CURB), FACE OF BUILDING, CENTER OF COLUMN, CENTER OF STRUCTURE, CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.



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Land Lot 28
District-Section 7TH-2ND
County FANNIN

Project No. 17-0579-c
Drawn By: NCF
Checked By: SMB
Initial Issue Date: 02-05-2018

Sheet Title

SITE PLAN

Sheet Number

C-04

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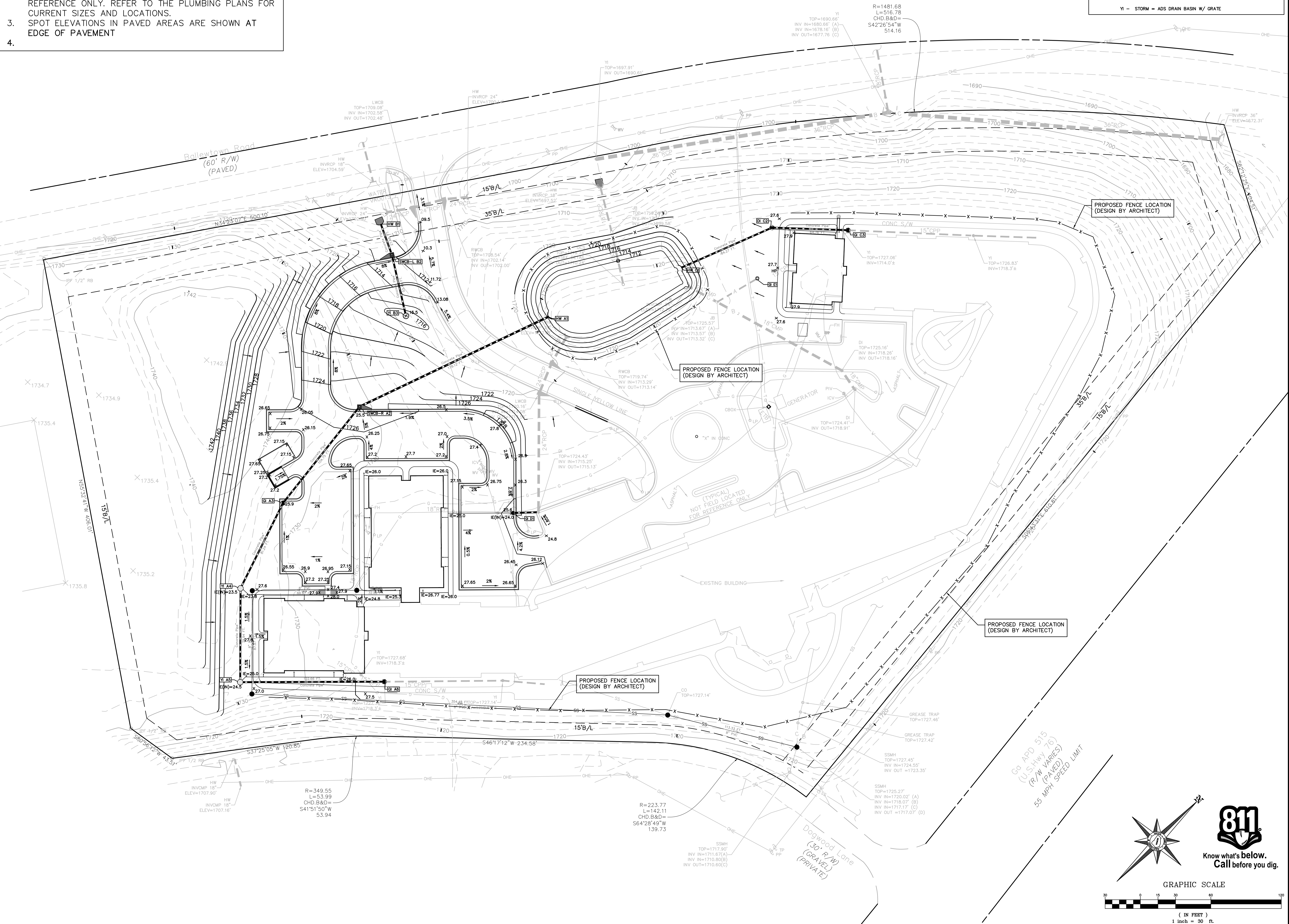
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GENERAL GRADING NOTES

1. A GEOTECHNICAL REPORT ENTITLED "TEST BORING RECORD FOR BLUE RIDGE ASSISTED LIVING EXPANSION", BY NOVA, DATED 12-07-17 WAS PREPARED. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THIS REPORT AND FOLLOW ALL RECOMMENDATIONS MADE IN SAID REPORT.
2. ROOF LEADER SIZES AND LOCATIONS SHOWN ARE FOR REFERENCE ONLY. REFER TO THE PLUMBING PLANS FOR CURRENT SIZES AND LOCATIONS.
3. SPOT ELEVATIONS IN PAVED AREAS ARE SHOWN AT EDGE OF PAVEMENT
- 4.

STORM DRAINAGE LEGEND

- SW-DOT STD 10330
- DI = GRATED INLET WELDED TO FRAME NEENAH R-3573 OR EQUAL
- CI = (GRATE W/ HOOD) = DOT STD 1019A TYPE E OR 1019B TYPE V-1
- WI = INLET W/ WEIR, TOP ON PEDESTAL W/ RING & COVER
- CO-STORM = ADS DRAIN BASIN
- IB-DOT MANHOLE STD 1011A OR 1011AP
- Y1 = STORM = ADS DRAIN BASIN W/ GRATE



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Project No. 17-0579-c
 Drawn By: NQF
 Checked By: SMB
 Initial Issue Date: 02-05-2018

Sheet Title
GRADING & DRAINAGE PLAN

Sheet Number
C-05

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

GRAPHIC SCALE
 (IN FEET)
 1 inch = 30 ft.

WATER NOTES:

1. THE LOCATION OF THE DOMESTIC AND FIRE LINES MUST BE COORDINATED W/THE BUILDING PLUMBING PLAN PRIOR TO INSTALLATION.
2. NO TEES ALLOWED ON WATER MAIN TE-INS. USE STAINLESS STEEL TAPPING SLEEVE AND TAPPING VALVE.
3. ALL CITY WATERLINE SHALL BE DUCTILE IRON PIPE AND COMPLY TO ANSI/AWWA A21-111-85 STANDARD SPECIFICATIONS.
4. ALL BENDS MUST INCLUDE MEGA-LUGS AND CONCRETE KICKERS. THRUST BLOCKS SHALL BE LOCATED AT ALL WATER PIPE VALVES, VERTICAL BENDS, AND VERTICAL ELBOWS, TEES AND FIRE HYDRANTS.
5. ALL WATER VALVE MARKERS SHALL BE PLACED AT ALL LOCATIONS WHERE WATER VALVES ARE NOT IN THE STREETS. WATER VALVES THAT ARE IN THE STREET WILL BE CLEARLY MARKED ON THE CURB.
6. NOTIFY CITY OF BLUE RIDGE 48 HOURS PRIOR TO START OF EACH PHASE OF CONSTRUCTION.

SANITARY SEWER NOTES:

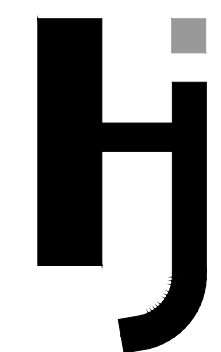
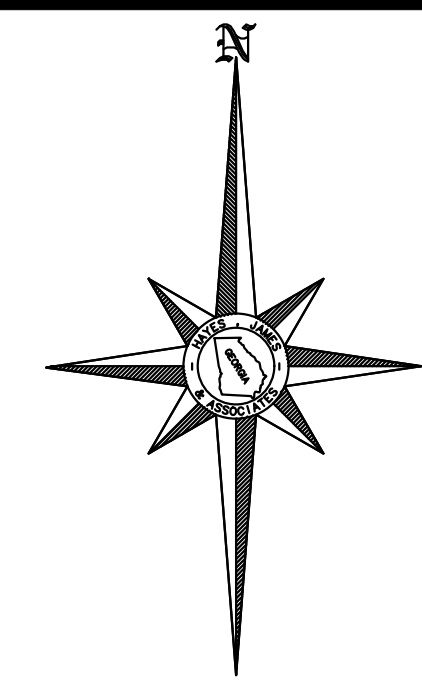
1. ANCHOR COLLARS SHALL BE PROVIDED ON SANITARY SEWER LINES WHOSE SLOPE EXCEEDS 17%.
2. TOPS OF EXISTING MANHOLES SHALL BE RAISED/LOWERED AS NECESSARY TO BE FLUSH WITH NEW FINISHED GRADES.
3. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATION OF EXISTING WASTEWATER SYSTEM AND REPORT DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION OF NEW LINES.
4. SANITARY SEWER LINES SHALL BE INSTALLED, TESTED AND APPROVED PRIOR TO BACKFILLING.
5. MINIMUM ANGLE BETWEEN INFLUENT AND EFFLUENT SANITARY SEWER LINES AT A MANHOLE = 90 DEGREES.
6. ALL SEWER PIPE CONSTRUCTION MUST CONFORM TO CITY OF BLUE RIDGE STANDARDS AND SPECIFICATIONS.
7. ALL WASTE WATER EASEMENTS MUST BE DRESSED AND GRASSED TO CONTROL EROSION PRIOR TO ACCEPTANCE. TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT.
8. NEOPRENE COUPLINGS WITH STAINLESS STEEL BANDS AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPES.
9. LOW PRESSURE AIR TESTING IS REQUIRED FOR ALL WASTE WATER PIPE SYSTEMS. THIS TEST MUST MEET ALL REQUIREMENTS AS OUTLINED IN ASTM C-828-80 OR CURRENT REVISION. AN INSPECTOR MUST BE PRESENT DURING TESTING.
10. NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
11. EIGHT INCH OR LARGER PIPE LINES SHOULD BE TV INSPECTED.
12. COMPACTION OF BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO 90% OF THE PROCTOR DENSITY. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER DEBRIS AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE. CORRECTION OF ANY TRENCH WITHIN A YEAR FROM THE DATE OF APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. THE USE OF PRECAST INVERT MANHOLES IS ACCEPTABLE PROVIDED THE INVERTS ARE NOT MODIFIED.
14. AS-BUILTS AND RECORD DRAWINGS ARE REQUIRED PRIOR TO REQUESTING A CERTIFICATE OF OCCUPANCY.

GENERAL UTILITY NOTES:

1. THE UTILITIES SHOWN ARE SHOWN FOR THE CONTRACTORS CONVENIENCE ONLY. THERE COULD BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH CITY OF BLUE RIDGE COUNTY REGULATIONS AND CODES AND O.S.H.A. STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPLICABLE UTILITY AND OBTAINING THE APPLICABLE SPECIFICATIONS.
3. CITY OF BLUE RIDGE MAY HAVE AN APPROVED CONTRACTOR AND/OR MANUFACTURER LIST FOR INSTALLATION OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE COUNTY TO OBTAIN THE APPLICABLE LIST.
4. THE NATURAL GAS LINE LOCATION IS SHOWN FOR CONVENIENCE ONLY. THE ACTUAL INSTALLATION OF THE GAS LINE IS TO BE DETERMINED BY THE UTILITY.
- 5.

CONDITIONS FOR PVC (SEWER):

1. PIPE SHALL BE ASTM-3034, SDR 35 IN 12.5 FOOT LAYING LENGTHS WITH ELASTOMERIC SEALED JOINTS IN ACCORDANCE WITH ASTM-D3212.
2. PIPE BEDDING SHALL BE #57, SHARP, ANGULAR, CRUSHED STONE. BEDDING SHALL EXTEND A MINIMUM OF 4" BELOW THE PIPE AND EXTEND TO THE TOP OF THE PIPE. THE BEDDING SHALL BE COMPACTED BY "SLICING WITH A FLAT SHOVEL". THE WIDTH OF THE DITCH AT THE TOP OF THE PIPE SHALL BE A MAXIMUM OF 3'.
3. INITIAL BACKFILL: AFTER BEDDING, COMPLETE INITIAL BACKFILL WITH # 57 STONE. IF NO ROCK IS ENCOUNTERED, INITIAL BACKFILL SHALL EXTEND TO A HEIGHT 6" ABOVE THE TOP OF THE PIPE. OTHERWISE INITIAL BACKFILL SHALL EXTEND TO 12" ABOVE THE TOP OF PIPE.
4. FITTINGS FOR LATERAL CONNECTIONS SHALL BE 45° WYES AND BENDS. PROVIDE PVC PIPE STOPPERS FOR EACH LATERAL. PROVIDE SPECIAL WATER-TIGHT CONNECTIONS AT MANHOLES AND TRANSITIONS TO DUCTILE IRON PIPE AS RECOMMENDED BY THE PIPE MANUFACTURER.
5. AFTER INSTALLATION, A DEFLECTION TEST IS REQUIRED. INITIAL DEFLECTION SHALL BE LIMITED TO 3% OF THE UNDEFLECTED DIAMETER. A SECOND TEST SHALL BE MADE AT LEAST 8 MONTHS AFTER THE INSTALLATION BUT BEFORE FINAL ACCEPTANCE. AT THAT TIME, DEFLECTION SHALL BE LIMITED TO 5% OF THE UNDEFLECTED DIAMETER.



Hayes James
ENGINEERS, PLANNERS & SURVEYORS

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Date	By	App.	ISSUE	Description	No.

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Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

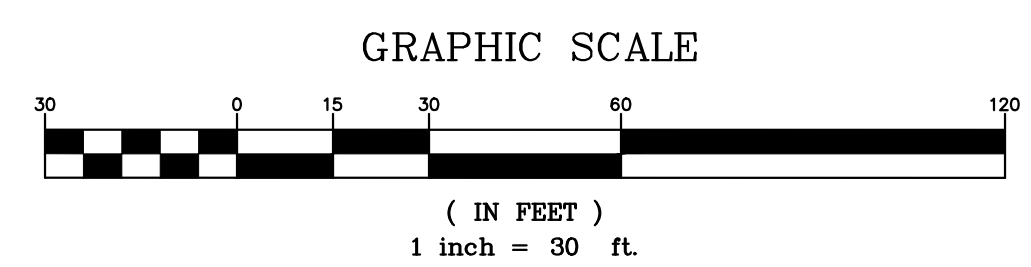
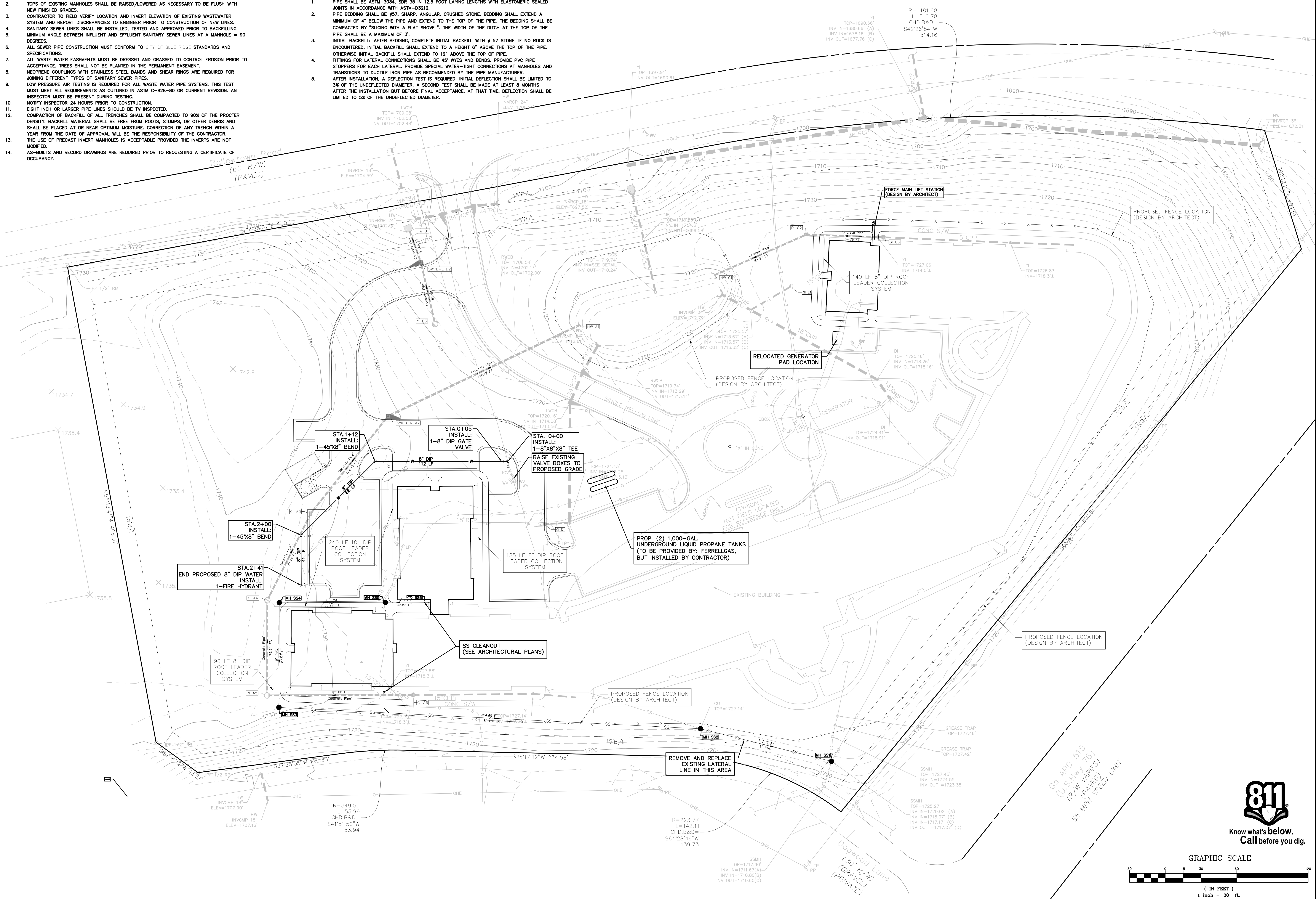
Project Location
Address 1600 BALLEWTOWN ROAD
City, State Zip BLUE RIDGE, GEORGIA 30513
Land Lot 28
District-Section 7TH-2ND
County FANNIN

Drawn By: NCF
Checked By: SMB
Initial Issue Date: 02-05-2018
Sheet Title

UTILITY PLAN

Sheet Number

C-06

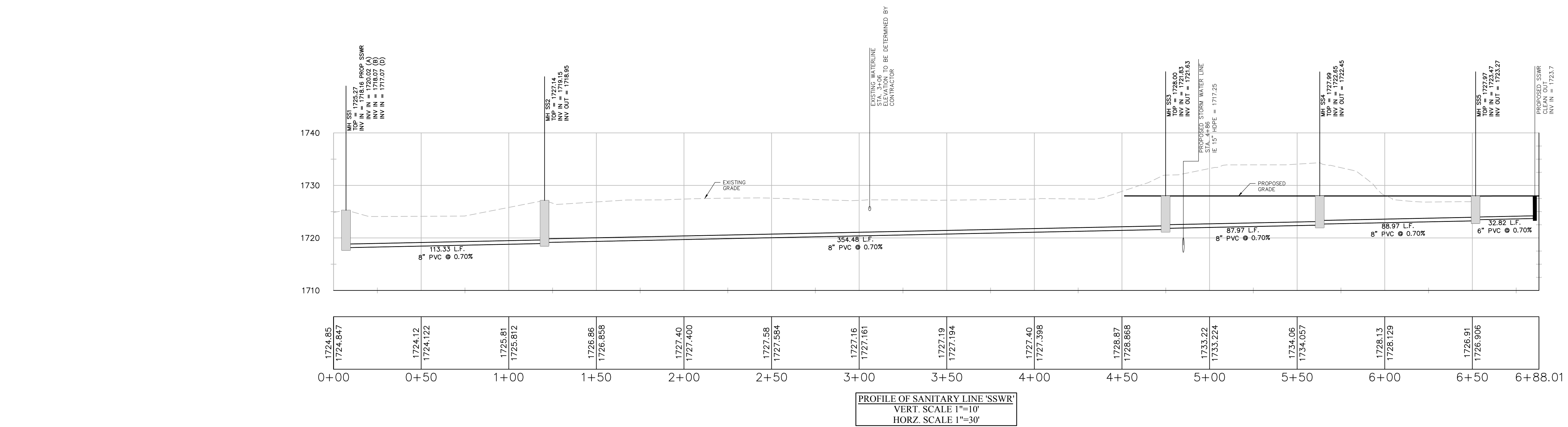


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richabou fox



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Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

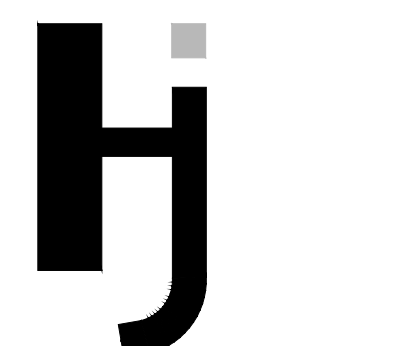
Project Location
 Address 1600 BALLEWTOWN ROAD
 City, State Zip BLUE RIDGE, GEORGIA 30513
 Land Lot 28
 District-Section 7TH-2ND
 County FANNIN

Project No. 17-0579-c
Drawn By: NCF
Checked By: SMB
Initial Issue Date: 02-05-2018

Sheet Title

UTILITY PROFILES

Sheet Number
C-07



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Date	By App.	ISSUE
		Description

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Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location
Address 1600 BALLETTOWN ROAD
City, State Zip BLUE RIDGE, GEORGIA 30513
Land Lot 28
District-Section 7TH-2ND
County FANNIN
Project No. 17-0579-e
Drawn By: NCF
Checked By: RWD
Initial Issue Date: 02-05-2018
Sheet Title

EC Phase 1
C-08

- I EROSION NOTES:**
1. THE EXISTING LAND IS CURRENTLY CLEAR CUT AND GRASSED. 1 EXISTING BUILDING IS WITHIN THE SITE.
 2. THE PROPOSED USE OF THE LAND IS A #5FT BUILDING AND ASSOCIATED PARKING AND DRIVES.
 3. **PROPERTY OWNER:** PROPERTY VENTURE, LLC
27599 RIVERVIEW CENTER BLVD., SUITE 201, BONITA SPRINGS, FL (239) 908-2921
 4. **PROJECT ACREAGE =** 9.739 ACRES
 5. **DISTURBED AREA =** 2.49 ACRES
 6. THE ADJACENT PROPERTY IS ZONED N/A.
 7. THE RECEIVING WATER IS CHERRY LOG CREEK.
 8. THERE ARE NO STREAM BUFFERS ON THE PROJECT.
 9. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
 10. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN STORAGE STRUCTURES, INDICATING THE 1/2 FULL VOLUME (CLEAN OUT LEVEL).
 11. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION GRADING.
 12. ALL FILL SLOPES SHALL HAVE SILT FENCE PLACED AT THE SLOPE'S TOE.
 13. CONCENTRATED FLOW AREAS AND ALL SLOPES GREATER THAN 2.5:1 WITH A HEIGHT OF 10 FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
 14. THERE ARE NO METLANDS ON THE PROPOSED PROJECT. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROPOSED PROJECT.
 15. SOLID WASTE DISPOSAL TO BE OFF-SITE AS DESCRIBED IN THE SOLID WASTE MANAGEMENT AFFIDAVIT. NOT DISCHARGE TO WATERS OF THE STATE EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
 16. THIS SITE DOES DISCHARGE WITHIN 1 MILE OF AN IMPAIRED STREAM.

- II EROSION NOTES:**
1. THE CONTRACTOR IS RESPONSIBLE FOR THE FILING BOTH A NOTICE OF INTENT AND A NOTICE OF TERMINATION (NO/NOT) WITH THE GEORGIA E.P.D.
 2. SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
 3. DISTURBED AREAS ARE TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
 4. INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR. 100001.
 5. STORAGE LOCATION AND DISPOSAL PROCEDURES FOR CONCRETE TRUCK OR MIXER WASH OUT: CONCRETE TRUCK WASH OUT LOCATION SHALL BE IN A TEMPORARY TRUCK WASH AREA LOCATED IN AN AREA DESIGNATED BY THE CONTRACTOR. WASH OUT SHALL BE CONTAINED WITHIN A PIT OR TRENCH WITH NO MATERIAL LEAVING THE SITE OR IMPACTING VEGETATED AREAS SHOWN TO BE SAVED ON THE TREE SAVE PLAN. DISPOSAL OF WASHOUT MATERIAL SHALL BE EITHER THE BREAKING OF MATERIAL INTO ACCEPTABLE PIECES AND PLACEMENT WITHIN UNCLASSIFIED FILL AREAS AS DIRECTED BY THE ONSITE GEOTECHNICAL ENGINEER.
 6. PAINT AND/OR OTHER CHEMICALS SHALL BE STORED IN SECURED FACILITIES WITH RESTRICTED ACCESS TO EMPLOYEES ONLY AND DISPOSAL OF THIS MATERIAL SHALL BE IN ACCORDANCE WITH ALL RECOGNIZED LOCAL AND FEDERAL REQUIREMENTS. ALL DISPOSAL SHALL BE APPROVED OFF-SITE. WASTE FACILITIES CLASSIFIED TO ACCEPT THAT MATERIAL.
 7. EMERGENCY PROCEDURES FOR SPILL OR REPORTABLE QUALITY OF PETROLEUM PRODUCTS: ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE. TYPICALLY THIS WILL CONSIST OF AN EARTHEN BERM CONSTRUCTED AROUND 3 SIDES OF THE STORAGE AREA. EMERGENCY PROCEDURES FOR SPILLS SHALL BE KEPT IN THE CONSTRUCTION TRAILER INCLUDING EMERGENCY CONTACT NUMBERS. THE CONTRACTOR SHALL LOCATED STORAGE FACILITIES IN AREAS WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR.
 8. PORTALOJNS SHALL BE LOCATED ONSITE AND USED DURING CONSTRUCTION.

- III EROSION 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 EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM THE VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED.
 3. 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.
 4. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXISTS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
 5. THE 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. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL THE EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO GEORGIA STANDARDS.
 9. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
 - 10.

- CRITICAL AREAS:**
1. EXISTING ROADS
 - 1.1. DIVERSION DITCHES AND/OR A DOUBLE ROW OF SILT FENCE SHALL BE INSTALLED ALONG EXISTING EDGE OF PAVEMENT TO PREVENT SEDIMENT FROM ESCAPING.
 - 1.2. EXISTING INLETS SHALL BE PROTECTED W/ Sd2-F OR Sd2-P AS SHOWN TO PREVENT CLOGGING OF EXISTING STORM PIPE. EXISTING PIPE SYSTEMS SHALL BE INSPECTED AND CLEANED AFTER EVERY RAINFALL.
 2. THERE ARE STEEP SLOPES WITHIN THE PROJECT AREA; THESE SLOPES WILL BE STABILIZED WITH THE APPROPRIATE MATTING. DIVERSION DITCHES SHALL DIRECT RUNOFF TO THE APPROPRIATE DOWNSTREAM STRUCTURE.

DESCRIPTION OF MAJOR ACTIVITIES:

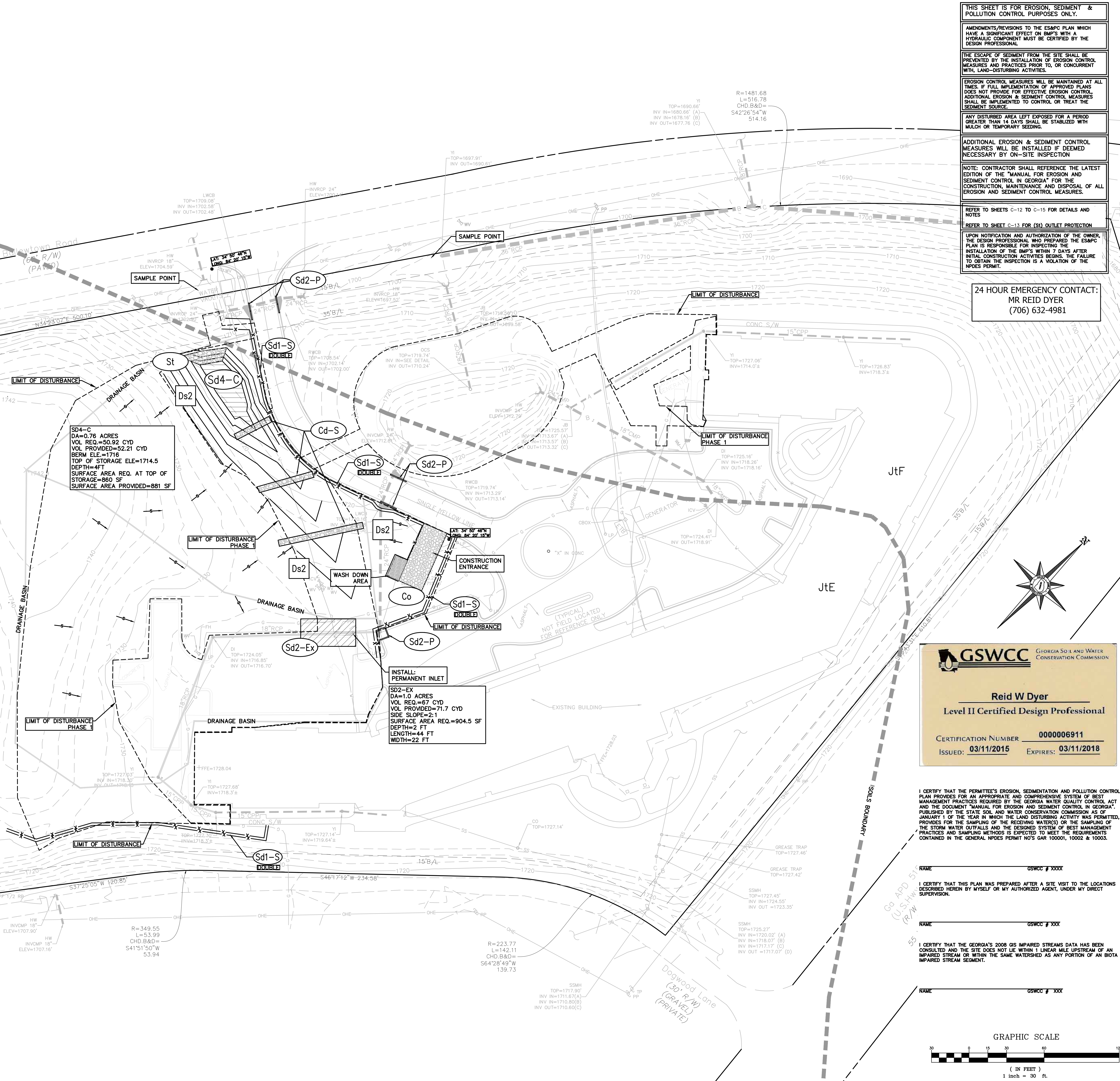
PHASE 1 EROSION CONTROL CONSISTS OF INITIAL PERIMETER CONTROLS, AND INSTALLATION OF SEDIMENT STORAGE BMP'S.

PHASE 2 EROSION CONTROL CONSISTS OF MAINTENANCE OF THE PERIMETER CONTROLS AND SEDIMENT STORAGE BMP'S INSTALLED IN PHASE 1. PHASE 2 ALSO INCLUDES CLEARING, GRADING AND EXCAVATION ACTIVITIES. STABILIZATION OF DISTURBED AREAS AND INSTALLATION OF BMP'S TO PREVENT ESCAPE OF POLLUTANTS INTRODUCED BY CLEARING AND GRADING ACTIVITIES.

PHASE 3 EROSION CONTROL CONSISTS OF MAINTENANCE OF BMP'S INSTALLED IN PHASES 1 & 2 AND FINAL STABILIZATION OF THE SITE AND REMOVAL OF ALL TEMPORARY EROSION CONTROL MEASURES ONCE THE SITE IS STABILIZED.

SOIL CLASSIFICATION TABLE

JTE--JUNALUSKA--TSALEI COMPLEX, 10 TO 25 PERCENT SLOPES
JTF--JUNALUSKA--TSALEI COMPLEX, 25 TO 45 PERCENT SLOPES



24 HOUR EMERGENCY CONTACT:
MR REID DYER
(706) 632-4981

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

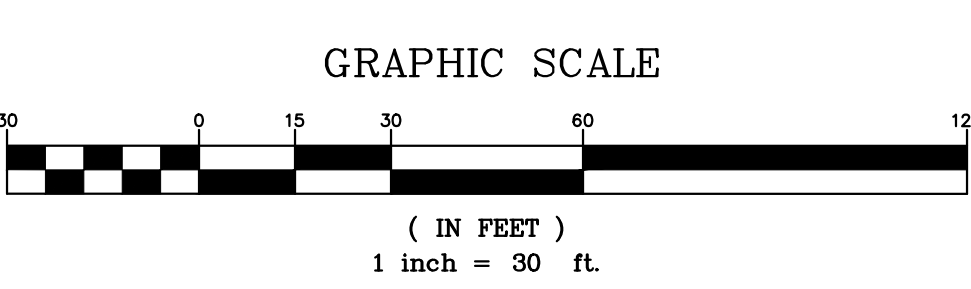
Reid W Dyer
Level II Certified Design Professional

CERTIFICATION NUMBER 0000006911
ISSUED: 03/11/2015 EXPIRES: 03/11/2018

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA," PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPEDITED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO'S GAR 100001, 10002 & 10003.

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

I CERTIFY THAT THE GEORGIA'S 2008 GIS IMPAIRED STREAMS DATA HAS BEEN CONSULTED AND THE SITE DOES NOT LIE WITHIN 1 LINEAR MILE UPSTREAM OF AN IMPAIRED STREAM OR WITHIN THE SAME WATERSHED AS ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.



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- I EROSION NOTES:**
- THE EXISTING LAND IS CURRENTLY WOODED AND GRASSED. # EXISTING BUILDINGS ARE WITHIN THE SITE.
 - THE PROPOSED USE OF THE LAND IS A 57,500 SFT BUILDING AND ASSOCIATED PARKING AND DRIVES.
 - PROJECT ACREAGE = 9.73 ACRES
 - DISTURBED AREA = 2.49 ACRES
 - THERE ARE NO STREAM BUFFERS ON THE PROJECT.
 - MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
 - SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN STORAGE STRUCTURES, INDICATING THE 1/2 FULL VOLUME (CLEAN OUT LEVEL).
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 - CONCENTRATED FLOW AREAS AND ALL SLOPES GREATER THAN 2.5:1 WITH A HEIGHT OF 10 FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
 - THERE ARE NO WETLANDS ON THE PROPOSED PROJECT. THERE ARE NO STATE WATERS WITHIN 200 FEET OF THE PROPOSED PROJECT.
 - SOLID WASTE DISPOSAL TO BE OFF-SITE AS DESCRIBED IN THE SOLID WASTE MANAGEMENT AFFIDAVIT. NOT DISCHARGE TO WATERS OF THE STATE EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

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 - 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.
 - FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL THE EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO GEORGIA STANDARDS.
 - A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

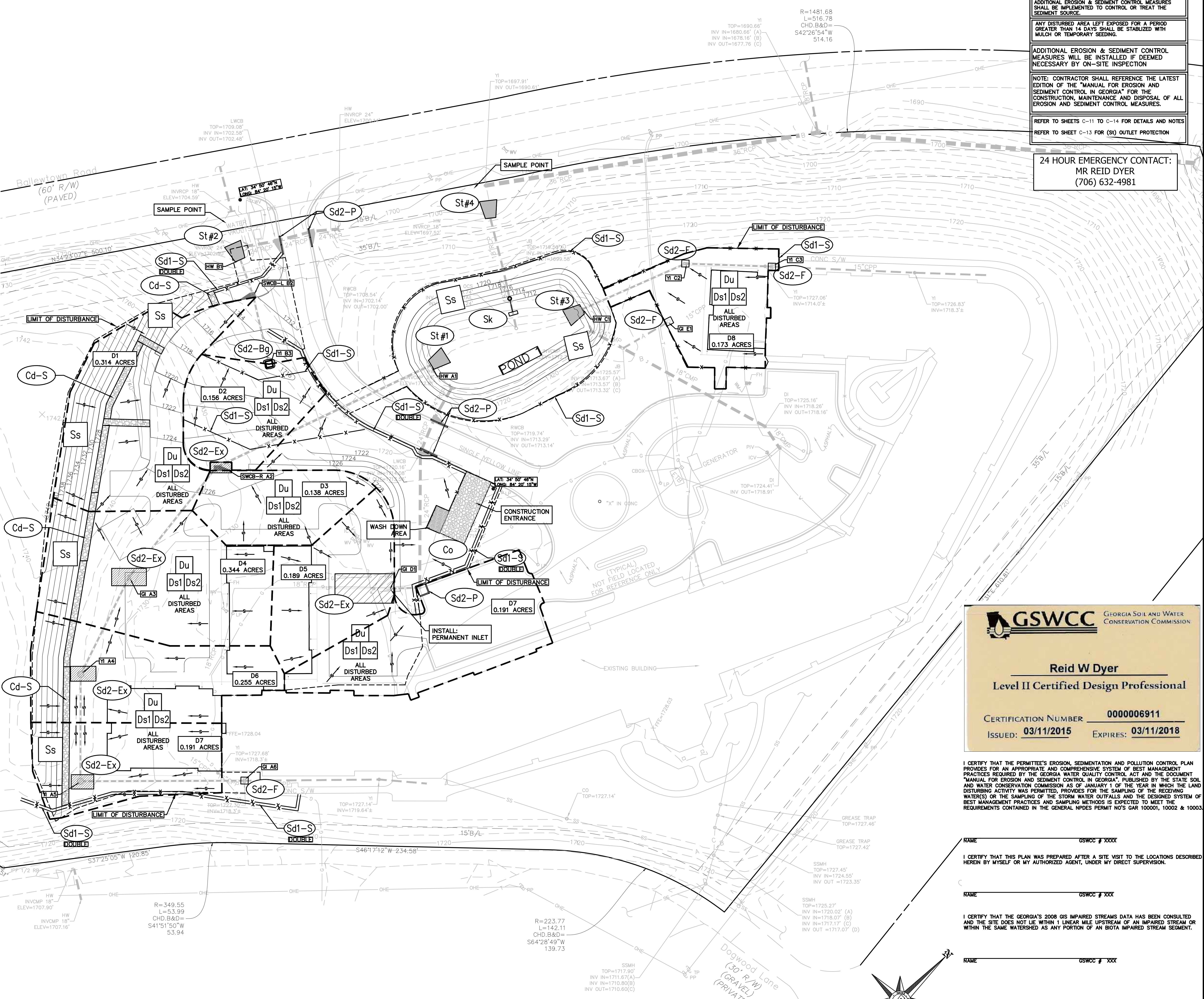
- CRITICAL AREAS:**
- EXISTING ROADS
 - DIVERSION DITCHES AND/OR A DOUBLE ROW OF SILT FENCE SHALL BE INSTALLED ALONG EXISTING EDGE OF PAVEMENT TO PREVENT SEDIMENT FROM ESCAPING.
 - EXISTING INLETS SHALL BE PROTECTED W/ Sd2-F OR Sd2-P AS SHOWN TO PREVENT CLOGGING OF EXISTING STORM PIPE. EXISTING PIPE SYSTEMS SHALL BE INSPECTED AND CLEANED AFTER EVERY RAINFALL.
 - THERE ARE STEEP SLOPES WITHIN THE PROJECT AREA: THESE SLOPES WILL BE STABILIZED WITH THE APPROPRIATE MATTING. DIVERSION DITCHES SHALL DIRECT RUNOFF TO THE APPROPRIATE DOWNSLOUT STRUCTURE.

WARM WATER (SUPPORTING WARM WATER FISHERIES)

SITE SIZE (ACRES)	SURFACE WATER DRAINAGE AREA, SQUARE FEET			
	0-4.99	5.0-9.99	10-24.99	25-49.99
1.0-10	75	100	200	400
10.01-25	50	100	100	200
25.01-50	50	100	100	100
50.01-100	50	50	50	50

NOTE: NTU CHART TO BE USED IN WARM WATER.
 ALL OUTLETS ON THIS SITE FALL UNDER THE SAME NTU VALUE. SITE SIZE IS 9.73 ACRES, SURFACE WATER DRAINAGE AREA IS 75 SMI. SEE NTU VALUE CIRCLED ABOVE.

SAMPLE OUTFALLS:
 STUDY PT #1 - DESCRIPTION
 STUDY PT #2 - DESCRIPTION



THIS SHEET IS FOR EROSION, SEDIMENT & POLLUTION CONTROL PURPOSES ONLY.

AMENDMENTS/REVISIONS TO THE ESAPC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

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

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

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

ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.

NOTE: CONTRACTOR SHALL REFERENCE THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR THE CONSTRUCTION, MAINTENANCE AND DISPOSAL OF ALL EROSION AND SEDIMENT CONTROL MEASURES.

REFER TO SHEETS C-11 TO C-14 FOR DETAILS AND NOTES
 REFER TO SHEET C-13 FOR (Sd) OUTLET PROTECTION

24 HOUR EMERGENCY CONTACT:
 MR REID DYER
 (706) 632-4981

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Reid W Dyer
 Level II Certified Design Professional

CERTIFICATION NUMBER 000006911
 ISSUED: 03/11/2015 EXPIRES: 03/11/2018

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NOS GAR 100001, 10002 & 10003.

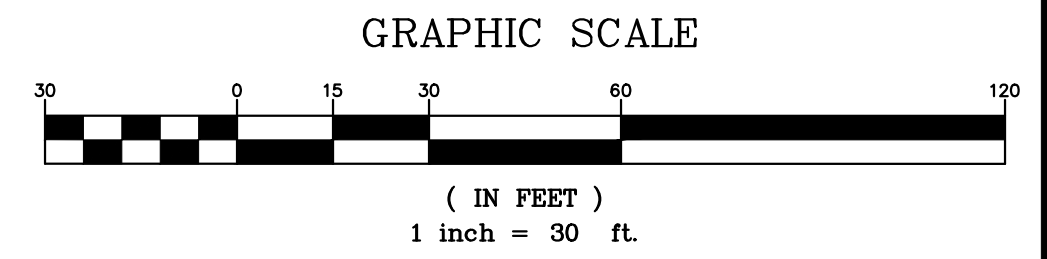
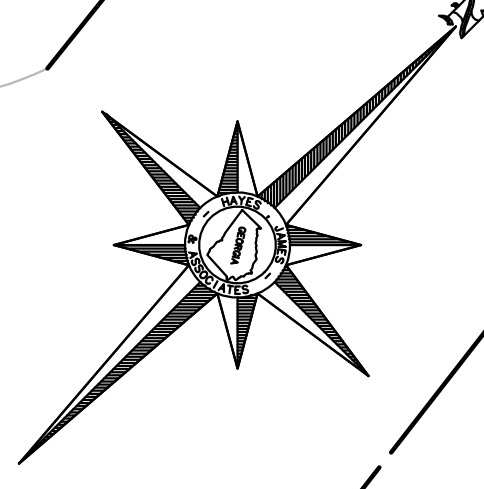
I CERTIFY THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

I CERTIFY THAT THE GEORGIA'S 2008 GIS IMPAIRED STREAMS DATA HAS BEEN CONSULTED AND THE SITE DOES NOT LIE WITHIN 1 LINEAR MILE UPSTREAM OF AN IMPAIRED STREAM OR WITHIN THE SAME WATERSHED AS ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT.

NAME GSWCC # XXXX

NAME GSWCC # XXX

NAME GSWCC # XXX



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Date	By	App.	ISSUE
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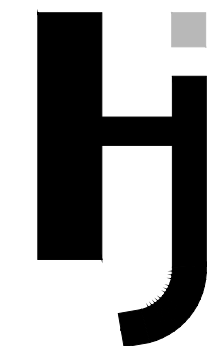
Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location
 Address 1600 BALLEWTOWN ROAD
 City, State Zip BLUE RIDGE, GEORGIA 30513
 Land Lot 28
 District-Section 7TH-2ND
 County FANNIN

Project No. 17-0579-e
 Drawn By: NQF
 Checked By: RWD
 Initial Issue Date: 02-05-2018

Sheet Title
EC Phase 2

Sheet Number
C-09



Hayes James

ENGINEERS, PLANNERS & SURVEYORS

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Date	By App.	ISSUE Description	No.

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Sheet Title

EC Phase 3

Sheet Number

C-10

THIS SHEET IS FOR EROSION, SEDIMENT & POLLUTION CONTROL PURPOSES ONLY.

AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

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

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

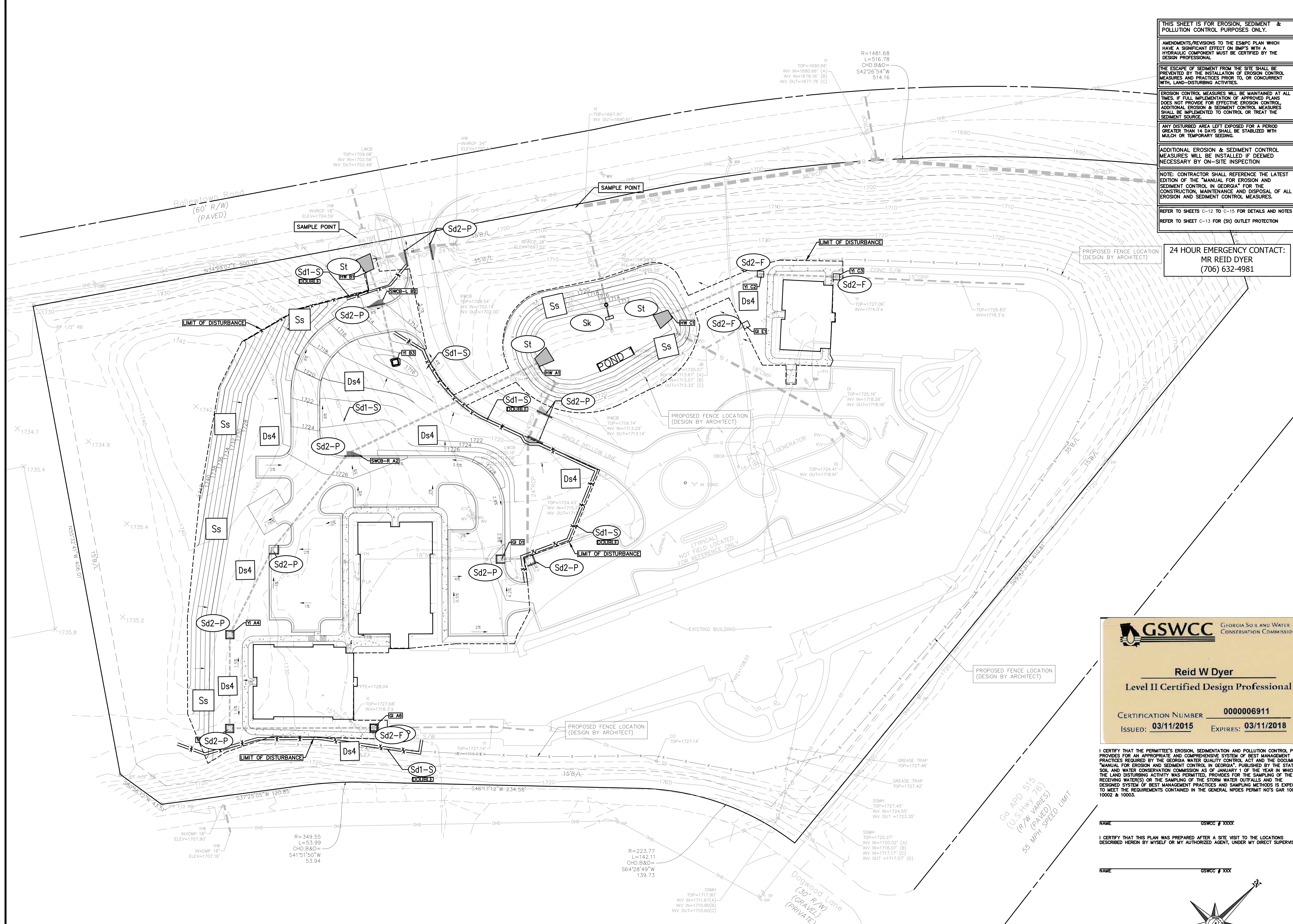
ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION

NOTE: CONTRACTOR SHALL REFERENCE THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR THE CONSTRUCTION, MAINTENANCE AND DISPOSAL OF ALL EROSION AND SEDIMENT CONTROL MEASURES.

REFER TO SHEETS C-12 TO C-15 FOR DETAILS AND NOTES
 REFER TO SHEET C-13 FOR (S) OUTLET PROTECTION

24 HOUR EMERGENCY CONTACT:
 MR REID DYER
 (706) 632-4981



GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Reid W Dyer
 Level II Certified Design Professional

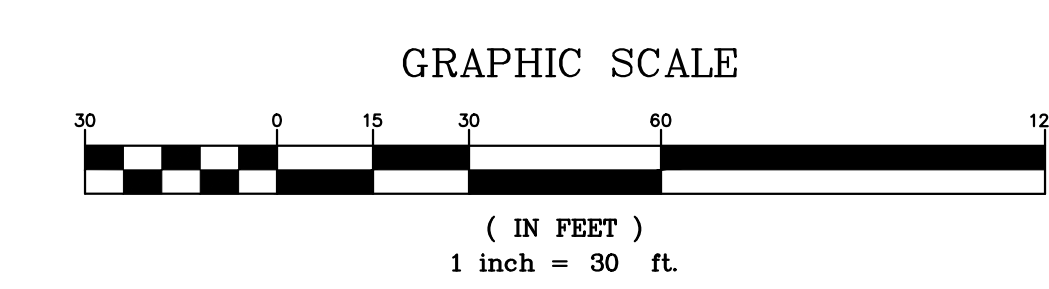
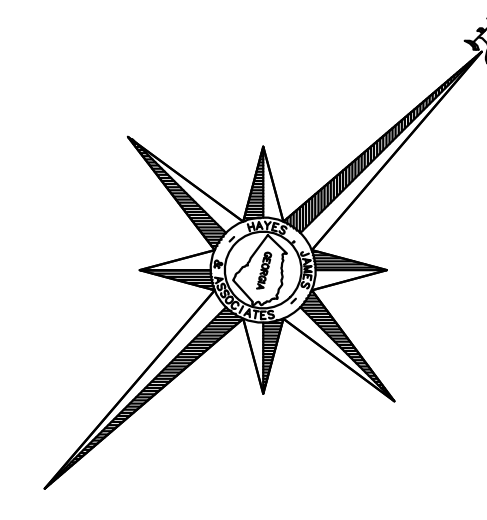
CERTIFICATION NUMBER **000006911**
 ISSUED: **03/11/2015** EXPIRES: **03/11/2018**

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO'S GA1 100001, 10002 & 10003.

NAME: GSWCC # XXXX

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

NAME: GSWCC # XXX



- CRITICAL AREAS:**
- EXISTING ROADS
 - DIVERSION DITCHES AND/OR A DOUBLE ROW OF SILT FENCE SHALL BE INSTALLED ALONG EXISTING EDGE OF PAVEMENT TO PREVENT SEDIMENT FROM ESCAPING. EXISTING INLETS SHALL BE PROTECTED W/ Sd2-F OR Sd2-P AS SHOWN TO PREVENT CLOGGING OF EXISTING STORM PIPE. EXISTING PIPE SYSTEMS SHALL BE INSPECTED AND CLEANED AFTER EVERY RAINFALL.
 - THERE IS AN EXISTING LAKE WITHIN A MILE DOWNSTREAM OF THE SITE. SEDIMENT BASINS AND SILT FENCE WILL BE INSTALLED TO PROTECT THE LAKE FROM SILTATION.
 - THERE ARE STEEP SLOPES WITHIN THE PROJECT AREA; THESE SLOPES WILL BE STABILIZED WITH THE APPROPRIATE MATING. DIVERSION DITCHES SHALL DIRECT RUNOFF TO THE APPROPRIATE DOWNDRAIN STRUCTURE.

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NPDES PLAN FOR COMPLIANCE WITH STAND ALONE CONSTRUCTION GAR100001

PERMIT COVERAGE AREA: GAR100001 PART 1.A
THIS PERMIT REGULATES POINT SOURCE DISCHARGES OF STORM WATER TO THE WATERS OF THE STATE OF GEORGIA FROM CONSTRUCTION ACTIVITIES, AS DEFINED IN THIS PERMIT.

SITE DESCRIPTION
PROJECT NAME: BLUE RIDGE ASSISTED LIVING EXTENSION
PROJECT ADDRESS: 1600 BALLEW TOWN ROAD BLUE RIDGE, GA 30513

OWNERS ADDRESS: 27599 RIVERVIEW CENTER BLVD., SUITE 201, BONITA SPRINGS, FLORIDA
OWNER'S CONTACT: BRGA PROPERTY VENTURE, LLC
OWNER'S PHONE: (239) 908-2921

GENERAL PURPOSE AND DESCRIPTION OF SOIL DISTURBING ACTIVITY
THIS PROJECT WILL CONSIST OF THE CONSTRUCTION OF AN ASSISTED LIVING EXTENSION WITH A COMMERCIAL RESTROOM FACILITY AND WATER CLOSURE CURBS FOR THE STORM WATER AFTER CONSTRUCTION ACTIVITY HAS CEASED.

SITE AREA: 9.73 ACRES
DISTURBED AREA: 2.49 ACRES
START DATE: 02-05-18
COMPLETION DATE: N/A

TYPE OF CONSTRUCTION: COMMERCIAL
GPS LOCATION OF Co: N 34°50'46" W 84°20'19"

MANAGEMENT PRACTICES AND PERMIT VIOLATIONS
1. BEST MANAGEMENT PRACTICES, AS SET FORTH IN THE PERMIT, ARE REQUIRED FOR ALL CONSTRUCTION ACTIVITIES, AND MUST BE IMPLEMENTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

INITIAL RECEIVING WATER NAME: WARM WATER FISHERIES TRAIL
RECEIVING WATER TYPE: SURFACE WATER DRAINAGE AREA
RUNOFF COEFFICIENTS: PRE: XX POST: XX

EROSION & SEDIMENT CONTROLS
THE CONTRACTOR SHALL INSTALL ALL INITIAL EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE INITIAL EROSION, POLLUTION AND SEDIMENTATION CONTROL PLAN.

STABILIZATION PRACTICES
ALL STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITY:
THE SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES ARE AS FOLLOWS:

- 1. INSTALLATION OF INITIAL PERMITTER EROSION, POLLUTION AND SEDIMENT CONTROL MEASURES AND THE CLEARING NECESSARY FOR THE INITIAL PERMITTER EROSION & SEDIMENT CONTROLS ONLY.
2. INSPECTION OF INITIAL MEASURES BY ENGINEER OF RECORD
3. MAKE ANY CORRECTIONS TO THE EROSION DEVICES AS NOTED BY INSPECTION IF NECESSARY
4. APPROVAL OF INITIAL EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
5. CLEARING & GRUBBING
6. SAMPLING OF THE FIRST QUALIFIED RAIN EVENT AFTER MASS CLEARING & GRADING HAS BEEN COMPLETED.
7. INSTALLATION OF INTERMEDIATE EROSION, POLLUTION AND SEDIMENTATION CONTROL MEASURES
8. MASS GRADING & UTILITY CONSTRUCTION

STRUCTURAL PRACTICES
ALL STRUCTURAL PRACTICES SHALL BE INSTALLED PER THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBANCE ACTIVITY WAS PERMITTED.

IMPAIRED STREAMS
THIS PROJECT IS LOCATED WITHIN ONE (1) LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATER SHED AS, ANY PORTION OF AN IMPAIRED STREAM SEGMENT.

IN ORDER TO ENSURE THAT THE PERMITTEE'S DISCHARGE(S) DO NOT CAUSE OR CONTRIBUTE TO THE VIOLATION OF STATE WATER QUALITY STANDARDS, THE PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT:

E. USE ANIONIC POLYACRYLAMIDE (PAM) AND/OR MUCILAGE TO STABILIZE AREAS LEFT DISTURBED FOR MORE THAN SEVEN (7) CALENDAR DAYS IN ACCORDANCE WITH PART III.D.1. OF THIS PERMIT.
F. INSTALL SOIL FOR A MINIMUM 20 FOOT WIDTH (OR MUCH TO STABILIZE AREAS LEFT DISTURBED HAS BEEN ACHIEVED, ALONG THE SITE PERIMETER WHEREVER CONSTRUCTION STORM WATER (INCLUDING SHEET FLOWS) MAY BE DISCHARGED.
G. CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS.
S. APPLY THE APPROPRIATE COMPOST BLENDS (MINIMUM DEPTH 1.5 INCHES) TO PROTECT SOIL SURFACES UNTIL VEGETATION IS ESTABLISHED DURING THE FINAL STABILIZATION PHASE OF THE CONSTRUCTION ACTIVITY.

STATE WATERBUTTER PROTECTION PRACTICES

1. STATE WATER BUTTER SHALL BE CLEARLY IDENTIFIED WITH SIGNAGE, SAID SIGNAGE SHALL READ AS FOLLOWS:
STATE WATER BUTTER
DO NOT DISTURB

2. SIGNS SHALL BE PLACED EVERY FORTY (40) FEET ALONG THE OUTSIDE BOUNDARY PARALLEL WITH ANY STATE BUTTER IDENTIFIED ON THE SITE.
3. SIGNS SHALL BE A WEATHERPROOF AND BE MINIMUM 11" X 17" MOUNTED ON 5 FT HIGH SIGN POST. DO NOT POST SIGNS ON TREES.
4. TREE SAVE TAPE SHALL BE INSTALLED BETWEEN SIGNS TO OUTLINE STREAM DISBURBMENT.

WETLAND PROTECTION PRACTICES
ANY DELINEATION AND/OR DISTURBANCE ARE SUBJECT TO U.S. CORPS OF ENGINEERS (U.S.A.C.E.) REGULATIONS, AND RESTRICTIONS. NO DISTURBANCE SHALL BE PERFORMED WITHOUT PRIOR PERMIT BY THE U.S.A.C.E.

STORM WATER CONTROLS
STORM WATER MANAGEMENT
THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT MEASURES PRIOR TO FINAL STABILIZATION OF THE SITE AND TO MAINTAIN THEM AFTER STABILIZATION AFTER STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY HAVE BEEN ELIMINATED FOR THE SITE.

STORM WATER RUNOFF CONTROL
DESCRIBE PRACTICES USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGE.

STORM DRAIN INLET LABELS
STORM STRUCTURE TOPS SHALL BE STAMPED WITH "PROTECT OUR WATER QUALITY, NO DUMPING, STORM WATER ONLY," THE STENCILING SHALL BE PERFORMED AS THE INLET TOPS ARE POURED OR MOUND, WHERE APPLICABLE, USE LOCAL, CITY OR COUNTY STENCIL DETAIL.

OTHER CONTROLS
NOTHING IN THIS PERMIT RELIEVES A PERMITTEE FROM ANY OBLIGATION TO COMPLY WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS OF WASTE DISPOSAL, SANITARY SEWER, SEPTIC AND PETROLEUM STORAGE SYSTEMS.

HAZARDOUS WASTE
THE CONTRACTOR SHALL INSTALL AND MAINTAIN AN UPLAND AREA FOR STORAGE OF ALL HAZARDOUS AND PETROLEUM MATERIALS. ALL HAZARDOUS WASTE MATERIALS SHALL BE STORED IN A MANNER SEPARATE FROM STATE SOIL WASTE MANAGEMENT REGULATIONS AND ORDINANCES.

OFF-SITE SEDIMENT
OFF-SITE FUELING TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL.

TEMPORARY FUELING TANKS SHALL BE LOCATED AWAY FROM DRAINAGE WAYS, DRAINAGE SYSTEMS AND STATE WATERS (STREAMS, SPRING HEADS, ETC.)

EQUIPMENT MAINTENANCE AREAS
EQUIPMENT MAINTENANCE AREAS SHALL BE CLEARLY IDENTIFIED WITH SIGNAGE, SAID SIGNAGE SHALL READ AS FOLLOWS:
EQUIPMENT MAINTENANCE AREA

SPILL PREVENTION
CONTRACTOR TO PROVIDE DOCUMENTATION OF SPILL RESPONSE EQUIPMENT AND PROCEDURES TO BE USED, GIVE STEP-BY-STEP INSTRUCTIONS FOR THE RESPONSES TO SPILLS AT THE PARTICULAR SITE. THIS SPILL RESPONSE PLAN CAN BE PRESENTED AS A PROCEDURAL HANDBOOK OR SIGN, EDUCATE SITE EMPLOYEES OF PROCEDURES.

SPILL RESPONSE PHONE NUMBERS
IN THE EVENT OF A RELEASE OF PETROLEUM INTO STATE WATERS, THE FOLLOWING AGENCIES MUST BE NOTIFIED IMMEDIATELY, NO LATER THAN 24 HOURS AFTER THE OCCURRENCE:

KEEPING PLANS CURRENT
THE PRIMARY PERMITTEE(S) SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPs WITH A HYDROLOGIC COMPONENT (I.E., THOSE BMPs WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY OF STORMS) OR IF THE PLAN PROVIDES TO BE AMENDED TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT.

PLAN CONTENT
THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REPRESENTS, AS A MINIMUM, BEST MANAGEMENT PRACTICES, INCLUDING SOIL CONSERVATION AND ENGINEERING PRACTICES TO PREVENT AND MINIMIZE EROSION AND SEDIMENTATION, WHICH ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THOSE PRACTICES CONTAINED IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA (MANUAL), PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.

MATERIALS MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIALS MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS AND OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.
GOOD HOUSEKEEPING
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE IMPLEMENTED ON-SITE DURING THE CONSTRUCTION PROJECT:

HAZARDOUS PRODUCTS
THE FOLLOWING PRACTICES SHALL BE FOLLOWED ON-SITE TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
1. ORIGINAL LABELS AND MATERIALS SAFETY DATA SHALL BE MAINTAINED SINCE THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
2. IF EXCESS PRODUCT MUST BE DISPOSED OF LOCAL, STATE AND FEDERAL RECOMMENDED METHODS FOR PROPER DISPOSAL SHALL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING ARE THE PRODUCT SPECIFIC PRACTICES THAT SHALL BE FOLLOWED FOR PRODUCTS USED ON-SITE.
PETROLEUM PRODUCTS
ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF SPILLAGE.

SPILL CONTROL PRACTICES
IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DESCRIBED IN THE PORTIONS OF THIS PLAN, THE FOLLOWING ARE THE SPILL CONTROL PRACTICES THAT SHALL BE FOLLOWED FOR SPILL CONTAINMENT AND CLEANUP.
1. LOCAL, STATE, FEDERAL, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND MAINTAINED AT ALL TIMES.
2. MATERIALS AND SUPPLIES FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIALS STORAGE AREA ON-SITE.

PAM NOTE
POLYACRYLAMIDE - ANIONIC (PAM): CONTRACTOR SHALL APPLY PAM VIA HYDRAULIC (HORSHOE) TYPE APPLICATION EVERY 14 CALENDAR DAYS AT THE RATE OF 1/2 LB/AC/IN UNTIL SITE IS FULLY STABILIZED.
ALL TEMPORARY GRASSING SHALL BE HYDROSEEDED

SAMPLING REQUIREMENTS
ALL SAMPLING SHALL BE COLLECTED BY "DIRTY GLOVES" METHOD. THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY & TEST PROCEDURES ESTABLISHED BY THE 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED).

SEE PLANS FOR SAMPLING LOCATIONS
SAMPLING POINTS
1. FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A REPRESENTATIVE OF RECEIVING WATER(S) AND OUTFALL(S).
2. FOR OPERATION AND MAINTENANCE ACTIVITIES THE PERMITTEE SHALL SAMPLE REPRESENTATIVE OF THE MONITORING AND REPRESENTATIVE OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

SECONDARY PERMITTEE SIGNATURES
NO. NAME OF CONTRACTOR DATE
REID W. DYER GA LEVEL II # 0000006911 DATE
OWNER & OPERATOR CERTIFICATIONS - per PART V.G.z.d. (PG 30 OF PERMIT)
I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

NO. NAME OF CONTRACTOR DATE
NO. NAME OF CONTRACTOR DATE
NO. NAME OF CONTRACTOR DATE
NO. NAME OF CONTRACTOR DATE
NO. NAME OF CONTRACTOR DATE

MAINTENANCE AND INSPECTION PROCEDURES

PERMITTEE REQUIREMENTS.
(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT THE AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

REPORTING
NOTE: INSPECTOR MUST BE LEVEL II CERTIFIED BY GSWCC.
1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. (SEE TFF FILE TO RIGHT TO GET ADDRESS) BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD.

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

CERTIFICATION
ENGINEER CERTIFICATION - per PART IV (PG 14 OF PERMIT)
I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

Table with columns: No., Date, Description, Issue. Contains a grid for tracking permit compliance.

NO. NAME OF CONTRACTOR DATE
NO. NAME OF CONTRACTOR DATE
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Hayes James ENGINEERS, PLANNERS & SURVEYORS
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Project Title: BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION
Project Location: 1600 BALLEW TOWN ROAD, BLUE RIDGE, GEORGIA 30513
City, State Zip: BLUE RIDGE, GEORGIA 30513
Land Lot: 28
District/Section: 77H-22-0
County: FANNIN
Drawn By: 17-0579-1
Project No: NQF
Checked By: RWD
Initial Issue Date: 02-05-2018
Sheet Title:

ES & PC NOTES

Sheet Number

GEORGIA UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

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.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A gravel or crushed stone pad located at the construction exit to provide a place for removing mud from tires thereby protecting public streets.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. Temporary, and inexpensive.
Dn2	PERMANENT DOWNRAIN STRUCTURE			A paved chute, sectional conduit, pipe or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect natural or artificial channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainages.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETROFITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	N.T.S. SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, gravel or a sediment fence. The barriers are usually temporary and in-expensive.
Sd2	N.T.S. SEDIMENT TRAP TEMPORARY			An impounding area created by excavating around a storm drain inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	SEDIMENT BASIN TEMPORARY			A basin created by excavation. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out. The basin is usually temporary but may be designed as a permanent pond or stormwater retention device.
Sd4	SEDIMENT TRAP TEMPORARY			A temporary pond that drains a disturbed area as sediment can settle out. (NO RISER)
Sk	FILTER SURFACE SKIMMER			Buoyant device that releases/drains water from the surface of sediment ponds, traps or basins at a controlled rate of flow.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
St	STORMDRAIN INLET/OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes, or similar structures.
SpB	SEEP BERM			A linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration while creating sediment chambers.
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Tc	TURBIDITY CURTAIN			A FLOATING OR STAKED BARRIER INSTALLED WITHIN THE WATER. (A FLOATING BOOM OR SILT CURTAIN)
Tr	TREE PROTECTION			To protect desirable trees from injury during construction.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes, or similar structures.

VEGETATIVE MEASURES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			An undisturbed natural "green belt" separating the land-disturbing site from surrounding property and bordering streams. It serves to reduce water velocity and remove some sediment. It is also at times a noise or "vision pollution" barrier.
Cs	COASTAL DUNE STABILIZATION			Planting vegetation on dunes that are denuded, artificially constructed, or re-maintained.
Ds1	DISTURBED AREA STABILIZATION (w/MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (w/TEMPORARY SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (w/PERMANENT SEEDING)			Establishing permanent vegetative cover such as trees, shrubs, vines, sod, grasses or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust at construction site, roadways and similar sites.
Sb	STREAMBANK STABILIZATION (PERMANENT VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION (HECP)			Protective covering used to prevent erosion and establish permanent or temporary vegetation using non-toxic hydraulic erosion control products.
Ss	SLOPE STABILIZATION (RECP)			Protective covering used to prevent erosion and establish permanent or temporary vegetation using Non-Toxic Blankets.
Tac	TACKIFIERS			Substance used to act as a tie down for soil, compost, seed, straw, hay or mulch. They hydrate in water and blend w/ other slurry materials to form a homogenous slurry.

Du DUST CONTROL ON DISTURBED AREAS
2016

DEFINITION
CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION SITES.

PURPOSE
- TO PREVENT SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES
- TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE, OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

CONDITIONS
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON AND OFF-SITE DAMAGE MAY OCCUR WITHOUT TREATMENT.

METHODS AND MATERIALS
PERMANENT METHODS:
PERMANENT VEGETATION: SEE STANDARD Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
TOPSOILING: THIS DETAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE STANDARD Tp-TOPSOILING.
STONE COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD Co-CONSTRUCTION ROAD STABILIZATION.

TEMPORARY METHODS:
MULCHES: SEE STANDARD Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD Tac-TACKIFIERS. RESINS SUCH AS SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
VEGETATIVE COVER: SEE STANDARD Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).
SPRAY-ON ADHESIVES: THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. REFER TO STANDARD Tac.
TILLAGE: THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS. BEAN PLOWING ON DOWNHILL SIDE OF THE SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
IRRIGATION: THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
BARRIERS: SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.
CALCIUM CHLORIDE: APPLY AT A RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

Sd2-P INLET SEDIMENT TRAP
N.T.S.

CONSTRUCTION SPECIFICATIONS:

- ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON INLETS RECEIVING RUNOFF FROM DISTURBED AREAS.
- THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.
- ONE METHOD OF CURB INLET PROTECTION USES "PIGS-IN-A-BLANKET" - 8" CONCRETE BLOCKS WRAPPED IN FILTER FABRIC.
- THE OTHER USES GRAVEL BAGS CONSTRUCTED BY WRAPPING DOT #57 STONE WITH FILTER FABRIC, WIRE, PLASTIC MESH, OR EQUIVALENT MATERIAL.
- A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY.
- SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP.
- SEDIMENT SHALL BE REMOVED FROM CURB INLET PROTECTION IMMEDIATELY.
- SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP, DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET AGAIN.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY.

Sd1-S SEDIMENT BARRIER - SENSITIVE AREAS
2014

NOTES:

- TYPE NS SEDIMENT BARRIERS SHALL HAVE A P-FACTOR NO GREATER THAN 0.03.
- POSTS SHALL BE SPACED NO FARTHER THAN 4'.
- POSTS SHALL BE DRIVEN A MINIMUM OF 18" INTO THE GROUND.

INSTALLATION:

- POST INSTALLATION SHALL START AT THE CENTER OF A LOW POINT (IF APPLICABLE).
- POST SIZE LENGTH = 4 FEET:
 - SOFT WOOD = 3" DIA OR 2"x4"
 - OAK = 1.5" X 1.5"
 - STEEL = 1.3 LB/FT (MIN)
- FASTENERS:
 - WIRE STAPLES-GAUGE 17 (MIN)-3/4"W CROWN, LEGS=1/2" LONG, 5 (MIN) STAPLES/POST.
 - GAUGE 14 (MIN), 1" LONG, 3/4" BUTTON HEAD, 4 (MIN) NAIL/POST
- 3.3. FILTER FABRIC MAY ALSO BE ATTACHED TO POST BY WIRE, CHORS, AND POCKETS OR ANY OTHER METHOD PROVIDED MINIMUM P-FACTOR, AS REQUIRED BY GSWCC, IS MET.
- INSTALL USING STATIC SLICING METHOD OR TRENCHING METHOD.

MAINTENANCE REQUIREMENTS
SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DEGRADED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY 6 MONTHS) OR THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING BOX OF ITS PROPERLY INSTALLED HEIGHT. TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

Sd2 EXCAVATED INLET SEDIMENT TRAP W/ TEMPORARY SILT STORAGE
N.T.S.

CONSTRUCTION SPECIFICATIONS:

- FOR STAKES, USE 2x4 INCH WOOD WITH MIN. LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND DRIVE SECURELY INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP.
- TO PROVIDE LATERAL STABILITY, FRAME 2x4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE DROP INLET CREST.
- PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL WITH AT LEAST 4 INCHES OF CRUSHED STONE OR 12 INCHES COMPACTED SOIL.
- FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
- THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW. 6" UNDER CUT Sd2 1.5' x 10' dia. ON 2 SIDES & 1.5' x 15' ON UPSTREAM SIDE.
- CONTRACTOR TO REMOVE ACCUMULATED SILT & MAINTAIN SILT FENCE IN ACCORDANCE TO BEST MANAGEMENT PRACTICES. SILT TO BE REMOVED WHEN STORAGE CAPACITY IS 1/3 FULL

Sd2-F FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION
2016

NOTES:

- THIS DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
- THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAX OF 3' APART)
- THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
- THE FABRIC SHALL BE 36" TALL & ENTRENCHED 12 INCHES AND BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL. WIRE AND FABRIC SHALL BE SECURELY FASTENED TO THE POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

MAINTENANCE
THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET. AGAIN, WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

MODIFIED Sd2 SEDIMENT STORAGE BASIN

STANDARD VERSIONS:

A. R=10' D=1.5'	S=3'	STORAGE VOLUME=23cy
B. R=15' D=1.5'	S=3'	STORAGE VOLUME=47cy
C. R=20' D=1.5'	S=3'	STORAGE VOLUME=80cy
D. R=15' D=3'	S=6'	STORAGE VOLUME=115cy
E. R=20' D=3'	S=6'	STORAGE VOLUME=187cy

PLAN VIEW
N.T.S.

PROFILE VIEW
N.T.S.

- FOR STAKES, USE 2x4 INCH WOOD WITH MIN. LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND DRIVE SECURELY INTO THE GROUND, APPROXIMATELY 18 INCHES DEEP.
- TO PROVIDE LATERAL STABILITY, FRAME 2x4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE DROP INLET CREST.
- PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL WITH AT LEAST 4 INCHES OF CRUSHED STONE OR 12 INCHES COMPACTED SOIL.
- FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
- THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW. 6" UNDER CUT Sd2 1.5' x 10' dia. ON 2 SIDES & 1.5' x 15' ON UPSTREAM SIDE.
- CONTRACTOR TO REMOVE ACCUMULATED SILT & MAINTAIN SILT FENCE IN ACCORDANCE TO BEST MANAGEMENT PRACTICES. SILT TO BE REMOVED WHEN STORAGE CAPACITY IS 1/3 FULL

GSWCC GEORGIA SOIL AND WATER CONSTRUCTION COMMISSION

Reid W Dyer
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000006911
ISSUED: 03/11/2015 EXPIRES: 03/11/2018

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
STEPHEN MARK BOND

Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location
Address 1600 BALLEWTOWN ROAD
City, State Zip BLUE RIDGE, GEORGIA 30513
Land Lot 28
District-Section 7TH-2ND
County FANNIN

Project No. 17-0579-c
Drawn By: NQF
Checked By: RWD
Initial Issue Date: 02-05-2018

Sheet Title
EROSION CONTROL DETAILS

Sheet Number
C-12

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DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENuded AREAS.

REQUIREMENT FOR REGULATORY COMPLIANCE

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED.

SPECIFICATIONS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR pH. BIO STIMULANTS SHOULD BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER).

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION.

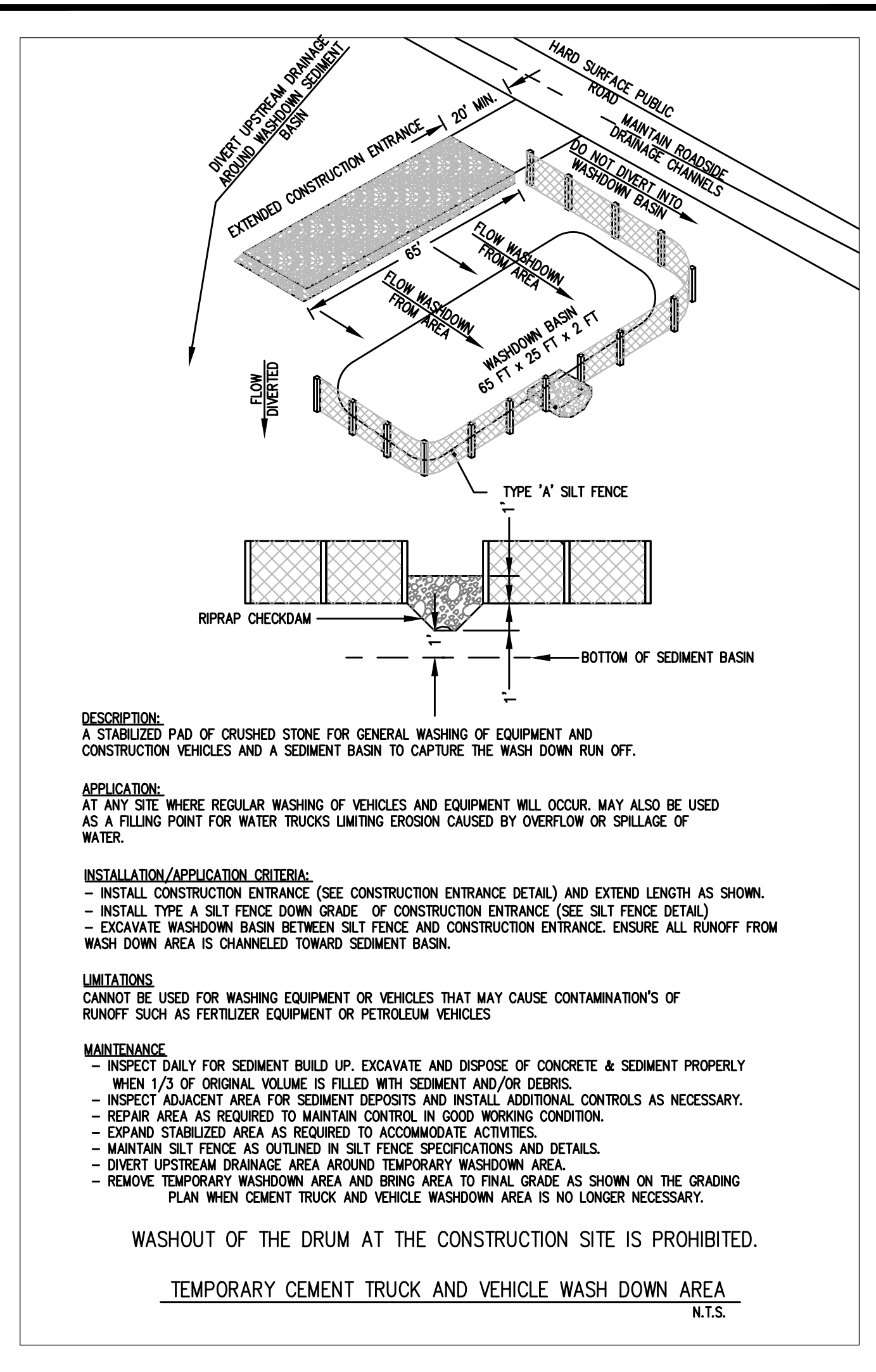
IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED.

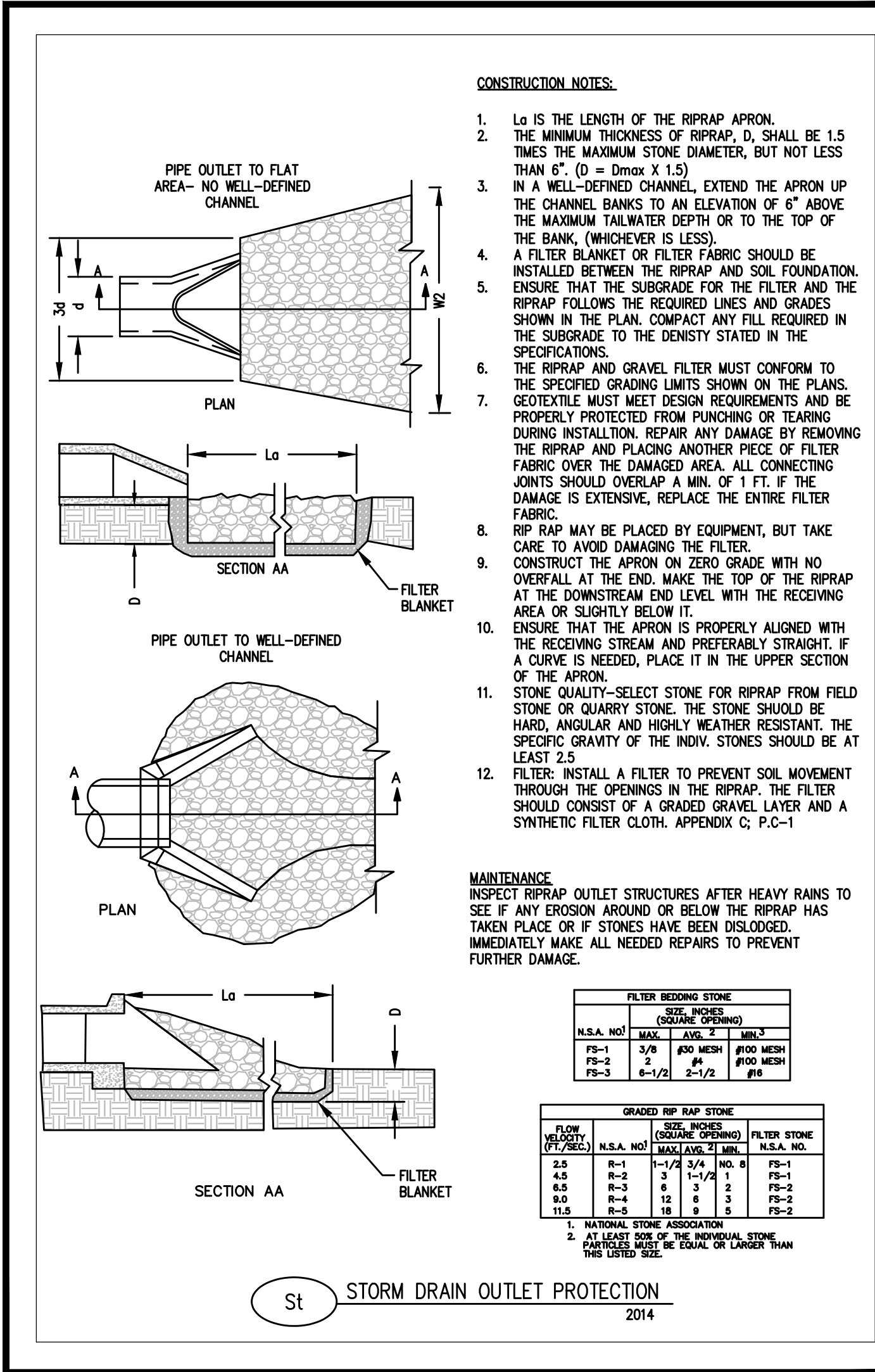
Table with columns: SPECIES, BROADCAST RATES, RESOURCE AREA, PLANTING DATES (J-F-M-A-M-J-J-A-S-O-N-D), REMARKS. Lists various crops like Barley, Lespedeza, Lovegrass, Millet, Rye, Ryegrass, Oats, Sudan Grass, Wheat.

- 1/ TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDING TOO HEAVILY.
2/ REDUCE SEEDING RATES BY 50% WHEN DRILLED.
3/ PLS IS AN ABBREVIATION FOR PURE LIME SEED.
4/ M-L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
P REPRESENTS THE SOUTHERN PIEDMONT MLRA
C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; BLACK LANDS; AND ATLANTIC COAST FLATWOODS MLRA'S

DS-2 DISTURBED AREA STABILIZATION w/ TEMPORARY SEEDING 2016



DS-1 DISTURBED AREA STABILIZATION w/ MULCHING ONLY 2016



DS-1 DISTURBED AREA STABILIZATION w/ MULCHING ONLY 2016

DEFINITION

A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

CONDITIONS

THIS APPLICATION IS APPROPRIATE FOR AREAS WHICH REQUIRE IMMEDIATE VEGETATIVE COVERS, DROP INLETS, GRASS SWALES, AND WATERWAYS WITH INTERMITTENT FLOW.

PLANNING CONSIDERATIONS

SODDING CAN INITIALLY BE MORE COSTLY THAN SEEDING, BUT THE ADVANTAGES JUSTIFY THE INCREASED INITIAL COSTS.

- 1. IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK USE.
2. REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE LACK OF WEEDS
3. CAN BE ESTABLISHED NEARLY YEAR-ROUND.

SODDING IS PREFERABLE TO SEEDING IN WATERWAYS AND SWALES BECAUSE OF THE IMMEDIATE PROTECTION OF THE CHANNEL AFTER APPLICATION. SODDING MUST BE STAKED IN CONCENTRATED FLOW AREAS (SEE FIGURE 6-6.1) CONSIDER USING SOG FRAMED AROUND DROP INLETS TO REDUCE SEDIMENTS AND MAINTAINING THE GRADE.

CONSTRUCTION SPECIFICATIONS INSTALLATION

SOIL PREPARATION

BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLOUDS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS.

INSTALLATION

LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD (SEE FIGURE 6-6.2) ON SLOPES STEEPER THAN 3:1. SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS.

MATERIALS

SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE.

- 1. SOD SHOULD BE MACHINE CUT AND CONTAIN 3/4" (+ OR - 1/4") OF SOIL, NOT INCLUDING SHOOTS OR TRATCH.
2. SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN 4 OR 5% TORN OR UNEVEN PADS SHOULD BE REJECTED.
3. SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
4. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE
5. THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO TABLE 6-6.2. SEE FIGURE 6-4.1 FOR YOUR RESOURCE AREA.

MAINTENANCE

RE-SOD AREAS WHERE AN ADEQUATE STAND OF SOD IS NOT OBTAINED. NEW SOD SHOULD BE MOWED SPARINGLY. GRASS HEIGHT SHOULD NOT BE CUT LESS THAN 2"-3" OR AS SPECIFIED (SEE FIGURE 6-6.2). APPLY ONE TON OF AGRICULTURAL LIME AS INDICATED BY SOIL TESTS 4-6 YEARS. FERTILIZE GRASSES IN ACCORDANCE WITH SOIL TESTS OR TABLE 6-6.3.

FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

Table with columns: FERTILIZER TYPE, FERTILIZER RATE (lbs/acre), FERTILIZER RATE (lbs/sq ft), SEASON. Shows rates for 10-10-10 fertilizer.

AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.

SOD PLANTING REQUIREMENTS

Table with columns: GRASS, VARIETIES, RESOURCE AREA, GROWING SEASON. Lists grasses like Bermudagrass, Bahiagrass, Centipede, St. Augustine, Zoysia, Tall Fescue.

FERTILIZER REQUIREMENTS FOR SOD

Table with columns: TYPES OF SPECIES, PLANTING YEAR, FERTILIZER (N-P-K), RATE (lbs./acre), NITROGEN TOP DRESSING RATE (lbs./acre). Shows fertilizer rates for cool and warm season grasses.

DS-4 DISTURBED AREA STABILIZATION W/ SODDING N.T.S.

SPECIFICATIONS

MULCHING WITHOUT SEEDING

THIS STANDARD APPLIES TO GRADES OR GRADED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

- 1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS

- 1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

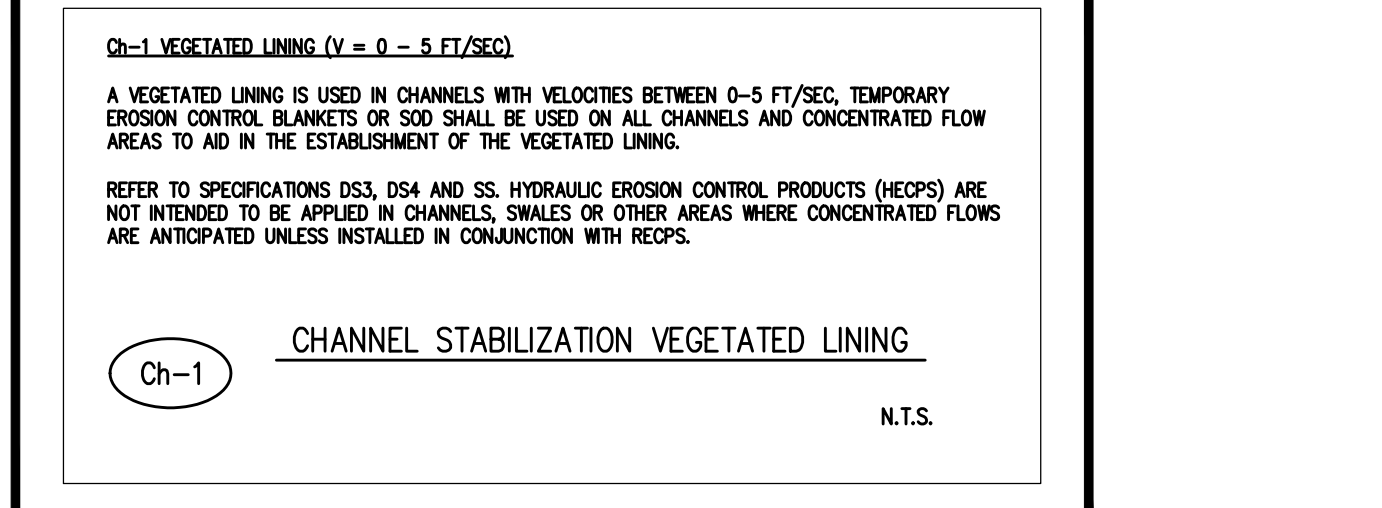
APPLYING MULCH

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA. 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT. 2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES. 3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

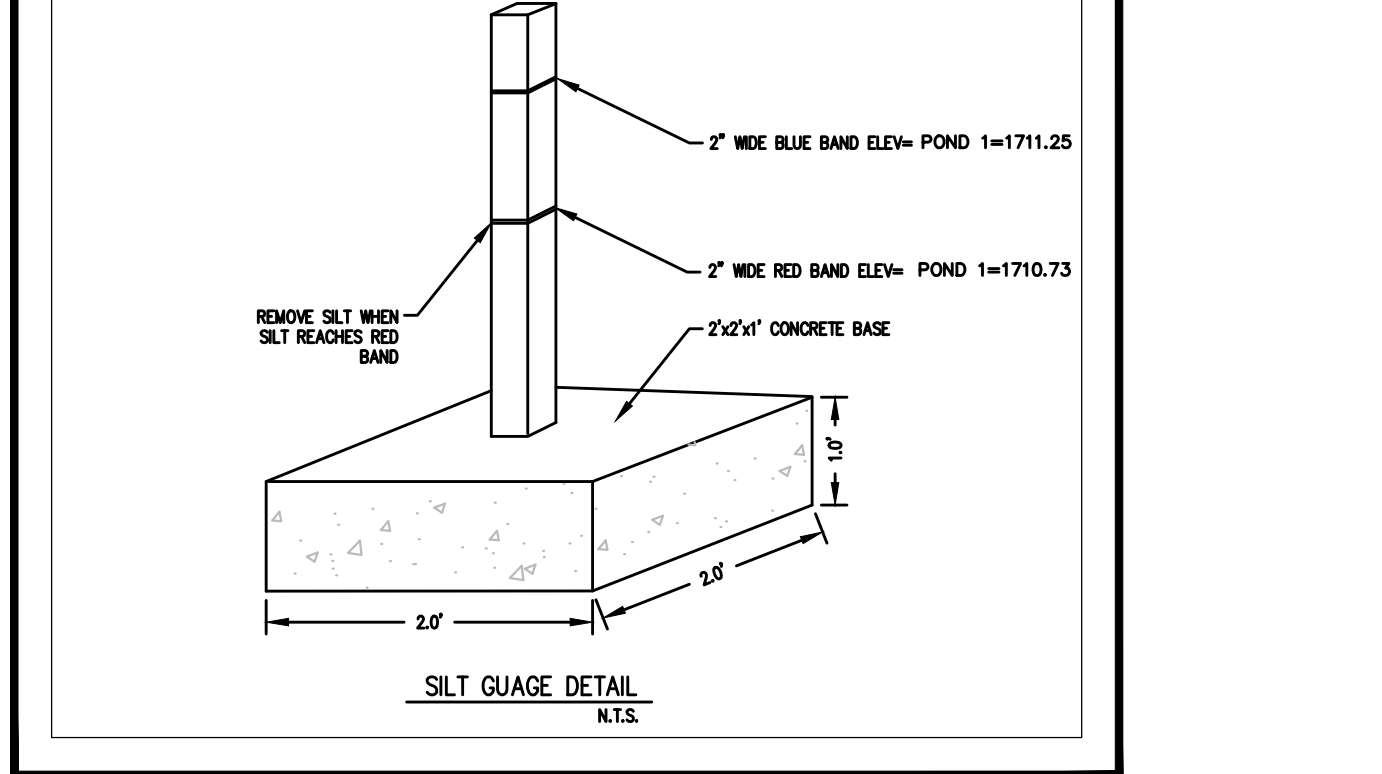
ANCHORING MULCH

- 1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL 'PACKER DISK'. DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MOISTURE IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS, BINDERS AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TACKIFIERS, PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

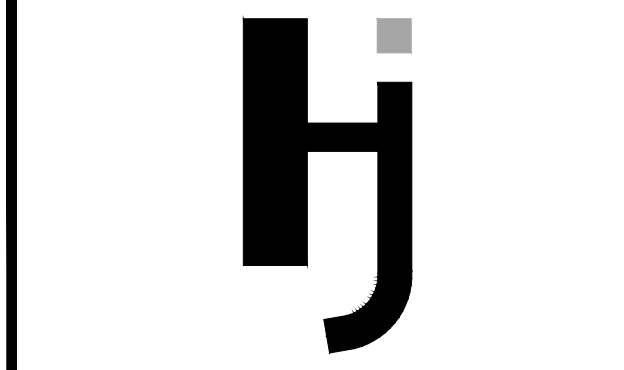
DS-1 DISTURBED AREA STABILIZATION w/ MULCHING ONLY 2016



DS-1 DISTURBED AREA STABILIZATION w/ MULCHING ONLY 2016



DS-1 DISTURBED AREA STABILIZATION w/ MULCHING ONLY 2016



Hayes James ENGINEERS, PLANNERS & SURVEYORS

3830 EAST FIRST STREET SUITE 1 BLUE RIDGE, GEORGIA 30513 TEL: (706) 632-4981 FAX: (706) 632-4982

BRGA PROPERTY VENTURE, LLC 27599 RIVERVIEW CENTER BLVD., SUITE 201 BONITA SPRINGS, FL Phone: (239) 908-2921 Fax: (239) 908-2960 TAMMY KAMINSKI (239) 908-2921

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Table with columns: Date, By, Appr., ISSUE, Description, No. It is a blank table for project tracking.

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Project Title BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location Address 1600 BALLEWTON ROAD City, State Zip BLUE RIDGE, GEORGIA 30513 Land Lot 28 District-Section 77H-2ND County FANNIN

Project No. 17-0579-c Drawn By: NQF Checked By: RWD Initial Issue Date: 02-05-2018 Sheet Title

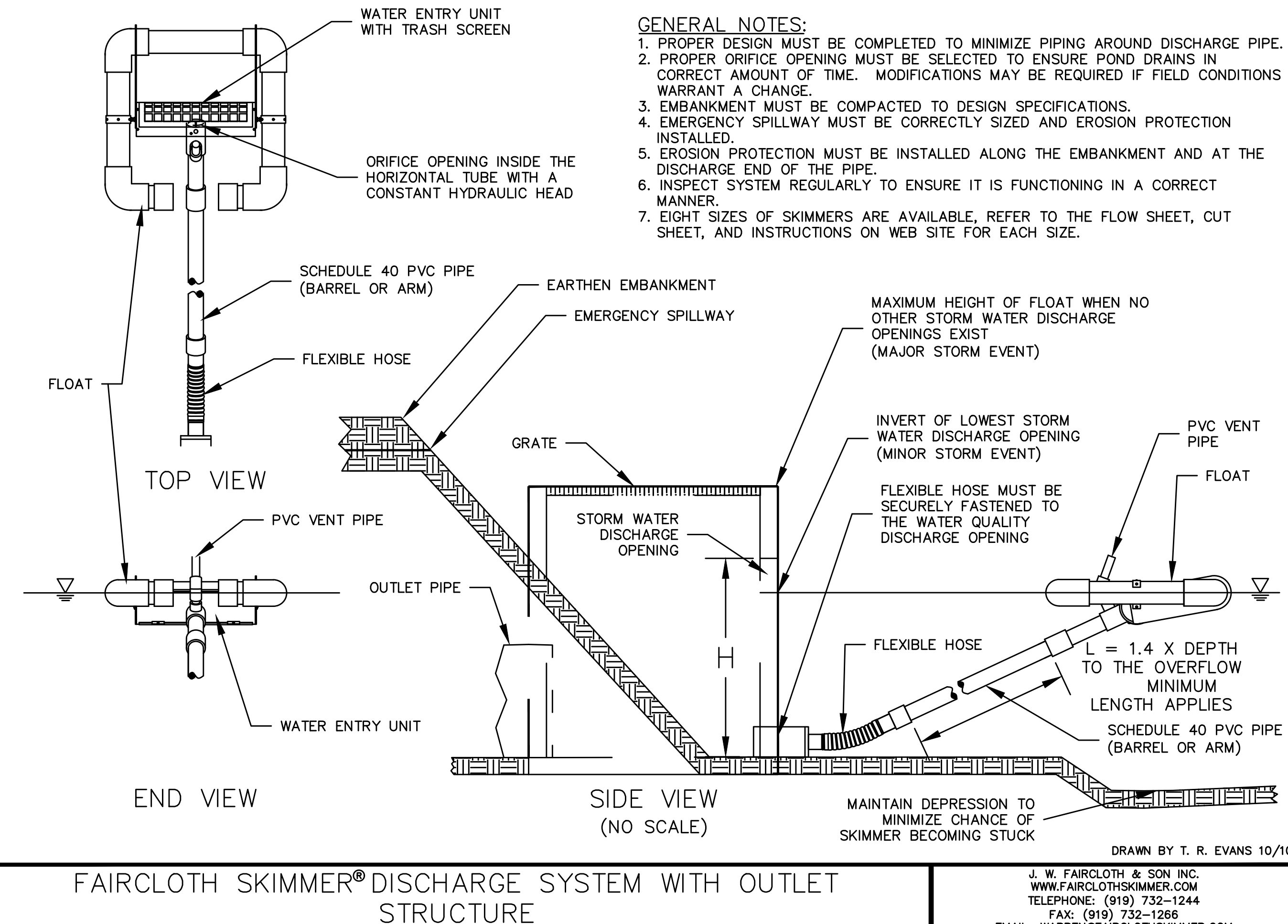
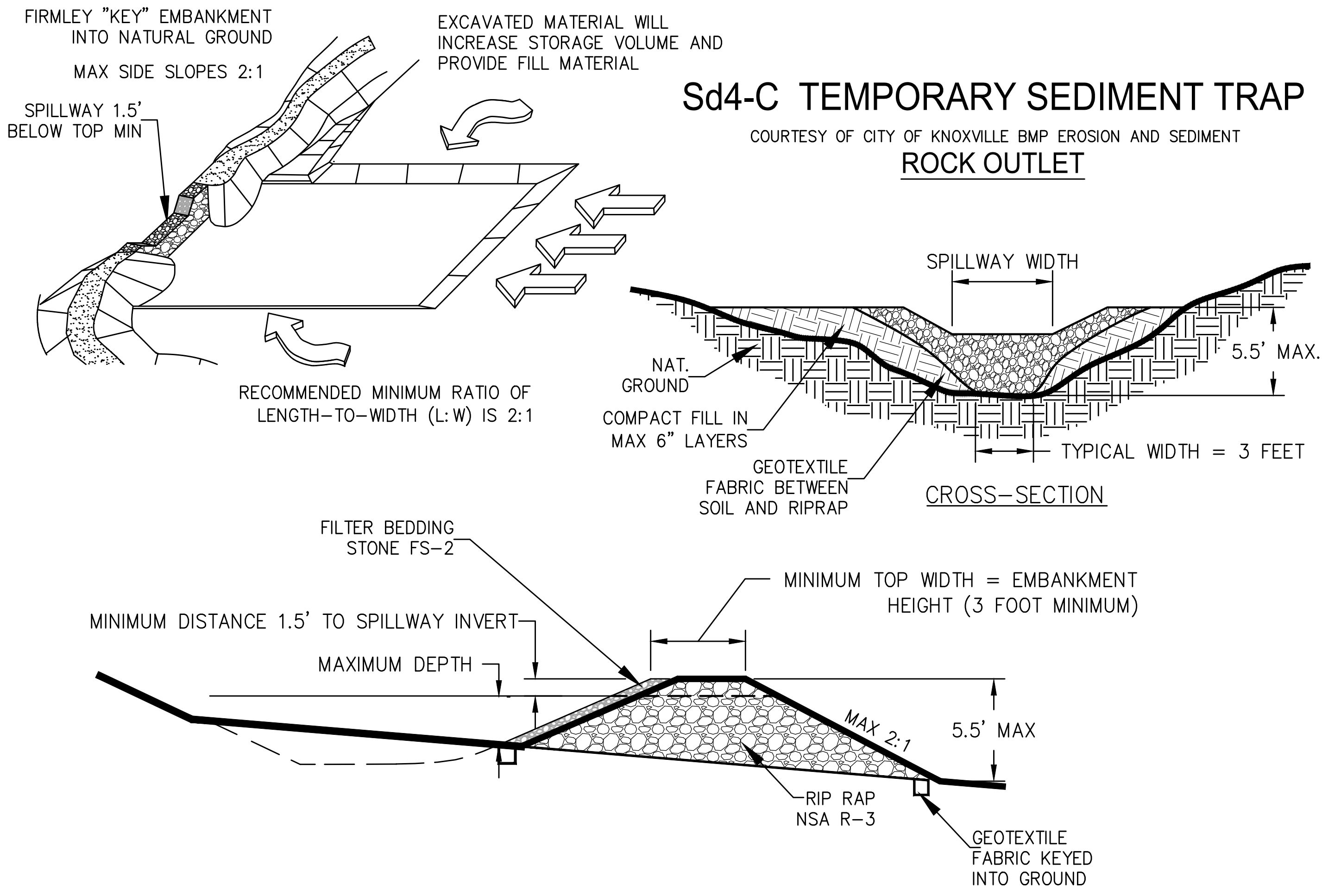
EROSION CONTROL DETAILS

Sheet Number

C-13

GSWCC GEORGIA SOIL & WATER CONSERVATION COMMISSION. Reid W Dyer Level II Certified Design Professional. CERTIFICATION NUMBER 000006911 ISSUED: 03/11/2015 EXPIRES: 03/11/2018

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FAIRCLOTH SKIMMER® DISCHARGE SYSTEM WITH OUTLET STRUCTURE
J. W. FAIRCLOTH & SON INC. WWW.FAIRCLOTHSKIMMER.COM TELEPHONE: (919) 732-1244 FAX: (919) 732-1266 EMAIL: WARREN@FAIRCLOTHSKIMMER.COM

Calculate Skimmer Size	
Basin Volume in Cubic Feet	72,260 Cu.Ft
Days to Drain*	3 Days
Skimmer Size	5.0 Inch
Orifice Radius	2.2 Inch[es]
Orifice Diameter	4.3 Inch[es]

*In NC assume 3 days to drain

Estimate Volume of Basin	
Top of water surface in feet	144
Bottom dimensions in feet	113
Depth in feet	8
VOLUME	72836 Cu. Ft.

DEFINITION:
A PROTECTIVE COVERING (BLANKET) TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORELINES OR CHANNELS.

PURPOSE:
TO PROVIDE A COVER LAYER THAT STABILIZES THE SOIL AND ACTS AS A RAIN DROP IMPACT DISSIPATOR WHILE PROVIDING A MICROCLIMATE WHICH PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT.

CONDITIONS:
MATTING AND BLANKETS CAN BE APPLIED TO FLAT AREAS OR STEEP SLOPES WHERE EROSION HAZARD IS HIGH AND SLOPE PROTECTION IS NEEDED DURING THE ESTABLISHMENT OF VEGETATION.

PERFORMANCE EVALUATION:
FOR A PRODUCT OR PRACTICE TO BE APPROVED AS SLOPE STABILIZATION, THAT PRODUCT OR PRACTICE MUST HAVE A DOCUMENTED C-FACTOR OF 0.080, AS SPECIFIED BY GSWCC. FOR A LIST OF APPROVED PRODUCTS VISIT: WWW.GSWCC.GEORGIA.GOV

PLANNING CONSIDERATIONS:
CARE MUST BE TAKEN TO CHOOSE THE TYPE OF BLANKET OR MATTING WHICH IS MOST APPROPRIATE FOR THE SPECIFIC NEEDS OF A PROJECT. TWO GENERAL TYPES OF SLOPE STABILIZATION PRODUCTS ARE DISCUSSED WITHIN THIS SPECIFICATION.

ROLLED 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 FIBERS HELD TOGETHER BY A SOIL BINDING AGENT WHICH WORKS TO STABILIZE SOIL PARTICLES. PAPER MULCH IS NOT TO BE USED FOR EROSION CONTROL.

CRITERIA

- INSTALLATION AND STAPLING OF RECPs AND APPLICATION RATES FOR THE HECPs SHALL CONFORM TO MANUFACTURER'S GUIDELINES FOR APPLICATION.
- PRODUCTS SHALL HAVE A MAXIMUM C-FACTOR (ASTM D6459) FOR THE FOLLOWING SLOPE GRADE:
 - 3:1 OR GREATER C-FACTOR MAX = 0.080

MATERIALS-RECP: ALL BLANKETS SHALL BE NONTOXIC TO VEGETATION, SEED, OR MILFLE. PRODUCTS SHALL BE DETERMINED TO BE NON-TOXIC IN ACCORDANCE WITH EPA-821-R-02-012. AT A MINIMUM, THE PLASTIC OR BIODEGRADABLE NETTING SHALL BE STITCHED TO THE FIBROUS MATRIX TO MAXIMIZE STRENGTH AND PROVIDE FOR EASE OF HANDLING.

MATERIALS-HECP: HYDRAULIC EROSION CONTROL PRODUCTS SHALL BE PREPACKAGED FROM THE MANUFACTURER. FIELD MIXING OR 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.

RECPs ARE CATEGORIZED AS FOLLOWS:

A) SHORT TERM (FUNCTIONAL LONGEVITY 12 MO)
PHOTODEGRADABLE
STRAW BLANKETS WITH A TOP AND BOTTOM SIDE PHOTO DEGRADABLE NET. THE MAXIMUM SIZE OF THE MESH SHALL BE OPENINGS OF 1/2\"/>

UPSTREAM TERMINAL

STEP 1: CUT TERMINAL SLOT

STEP 2: STAKE MAT INTO SLOT

STEP 3: BACKFILL TERMINAL SLOT

STEP 4: A. ROLL MAT UPSTREAM OVER REFILLED TERMINAL. B. STAKE MAT DOWN TO ANCHOR TERMINAL. C. PROGRESS UPSTREAM WITH ROLL.

TRANSVERSE CHECK SLOT

STEP 1: CUT CHECK SLOT. TEMPORARILY STAKE MAT UNDER MODERATE TENSION

STEP 2: WORK UPSTREAM ACROSS CHECK SLOT LAP BACK 15\"/>

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Reid W Dyer
Level II Certified Design Professional

CERTIFICATION NUMBER 000006911
ISSUED: 03/11/2015 EXPIRES: 03/11/2018

Hayes James
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Date	By	Appr.	ISSUE
			Description
			No.

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GEORGIA REGISTERED ENGINEER
STEPHEN MARK BOND

Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location
Address 1600 BALLEWTON ROAD
City, State Zip BLUE RIDGE, GEORGIA 30513
Land Lot 28
District-Section 77H-2ND
County FANNIN

Project No. 17-0579-c
Drawn By: NQF
Checked By: RWD
Initial Issue Date: 02-05-2018

Sheet Title
EROSION CONTROL DETAILS

Sheet Number
C-14

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Table with columns for Date, By, Appr., Description, ISSUE, No.



Project Title BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location Address 1600 BALLEWTOWN ROAD City, State Zip BLUE RIDGE, GEORGIA 30513

Project No. 17-0579-c Drawn By: NQF Checked By: RWD Initial Issue Date: 02-05-2018

Sheet Title EROSION CONTROL DETAILS

Reid W Dyer Level II Certified Design Professional CERTIFICATION NUMBER: 0000006911 ISSUED: 03/11/2015 EXPIRES: 03/11/2018

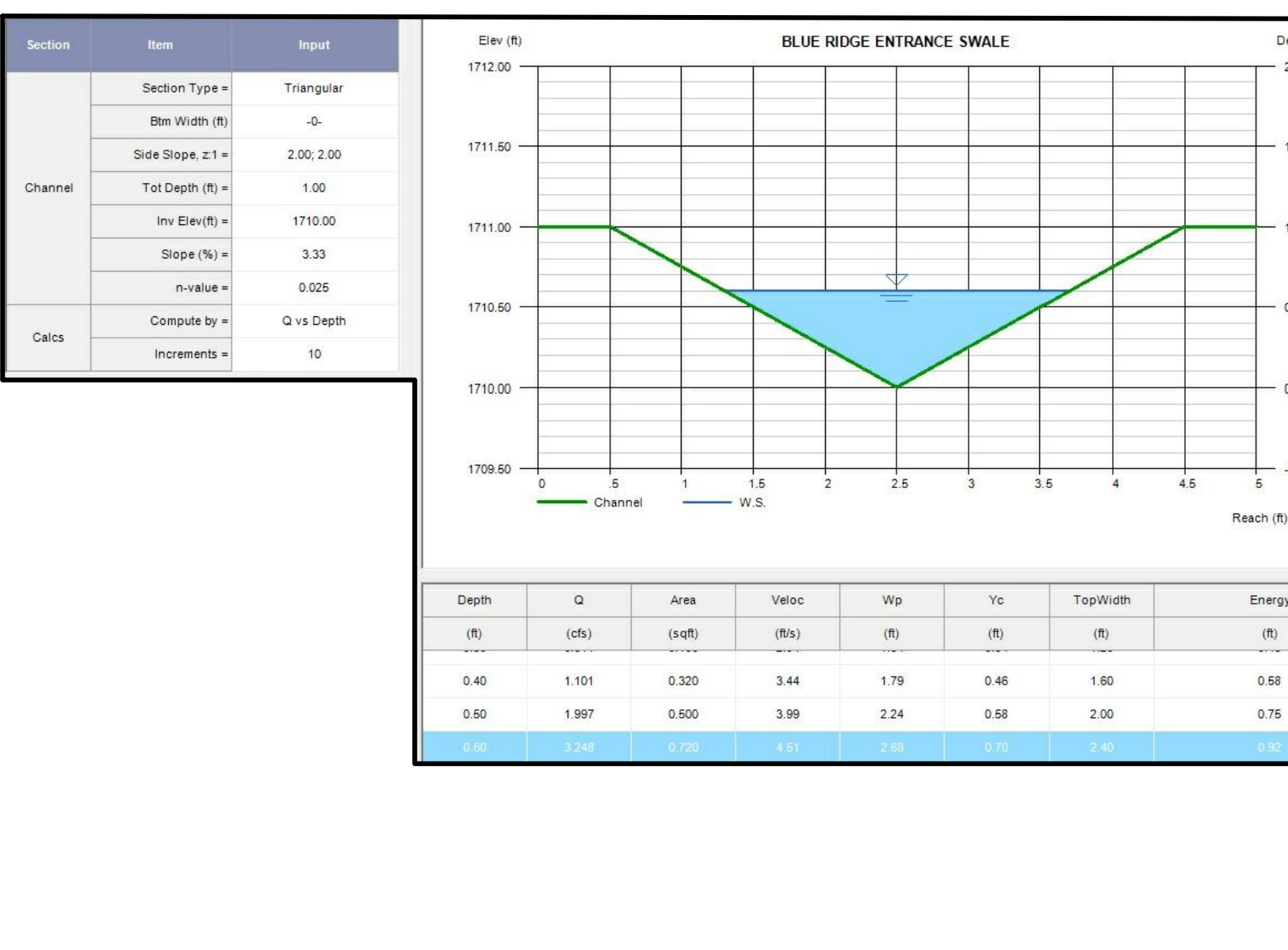
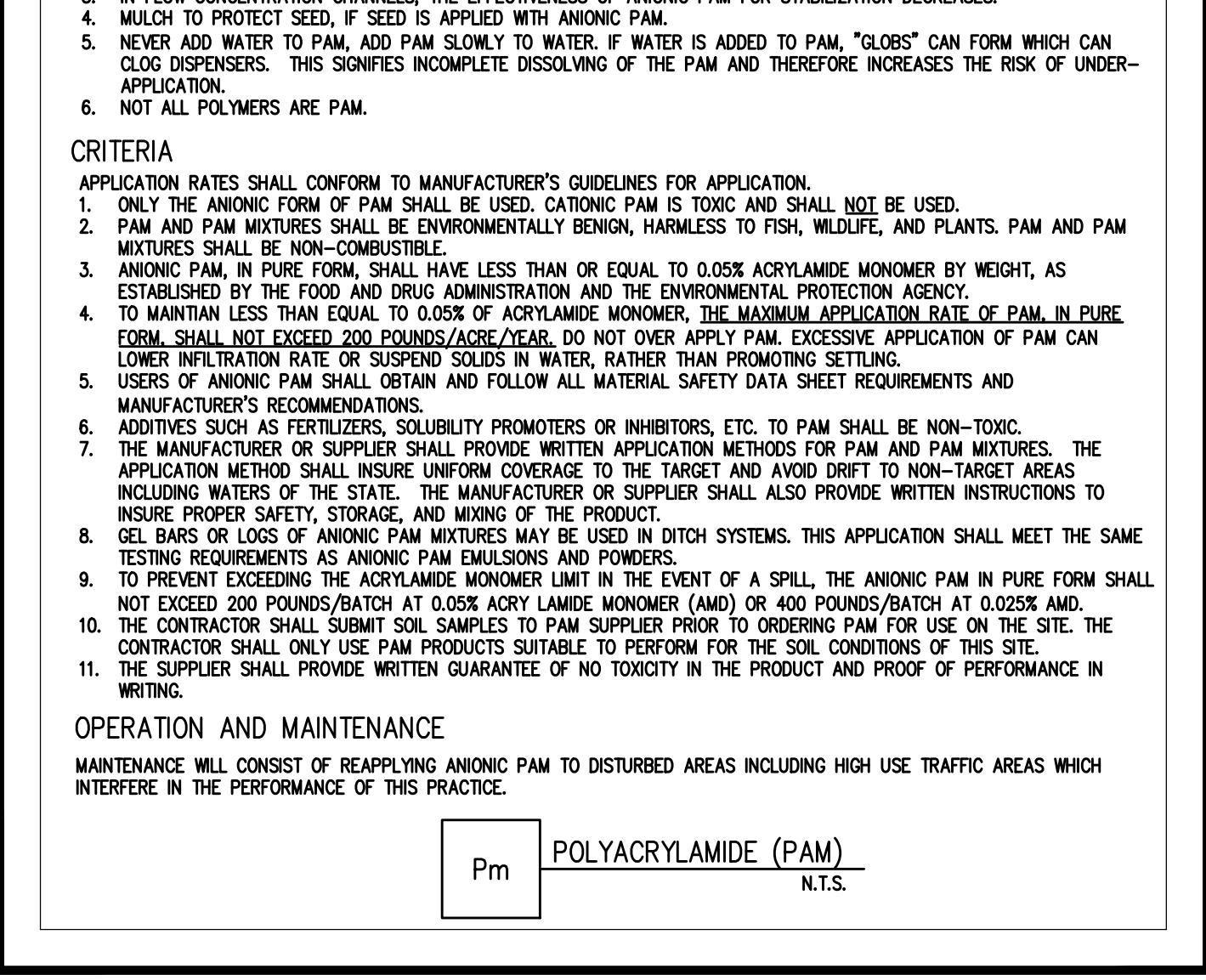
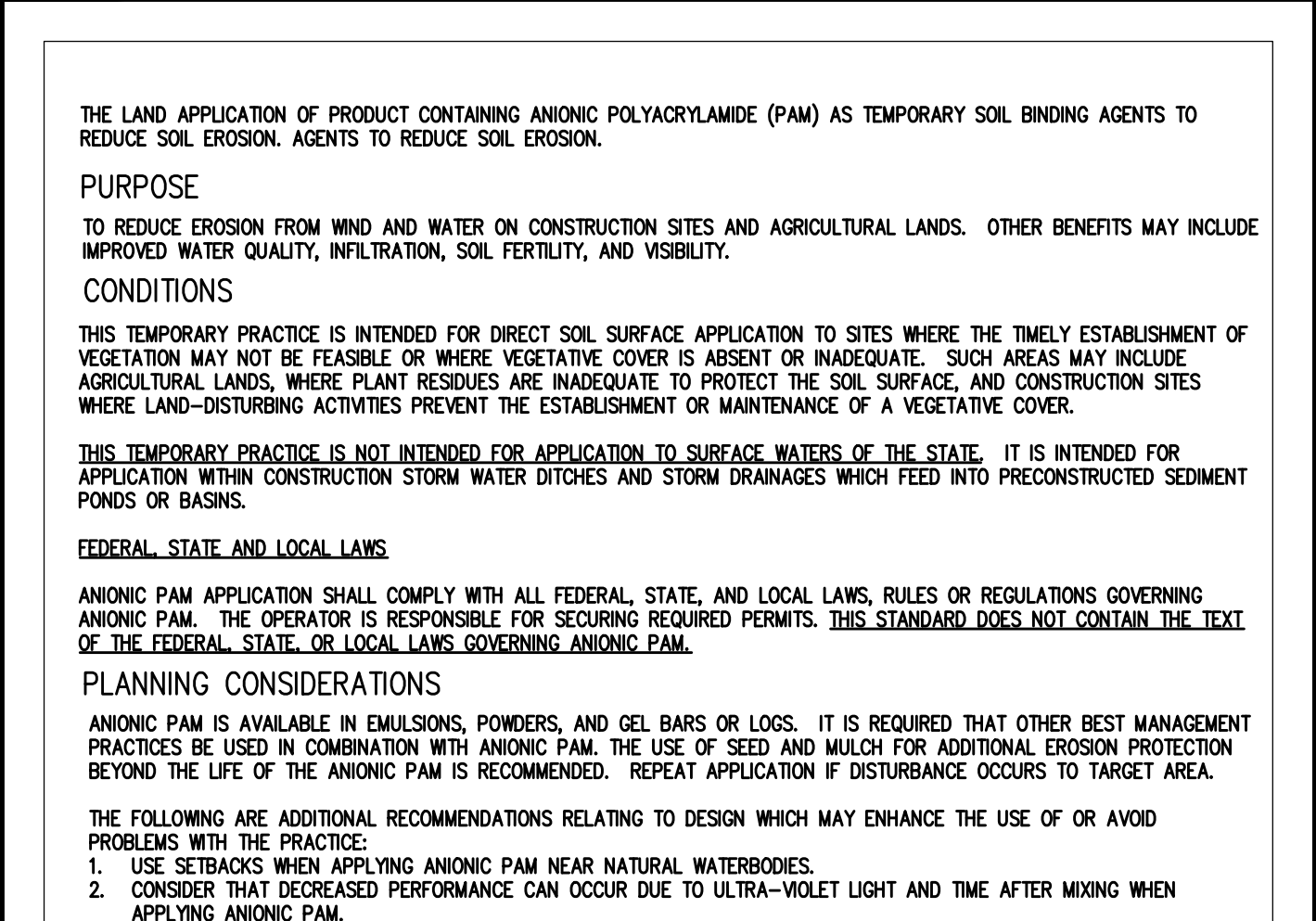
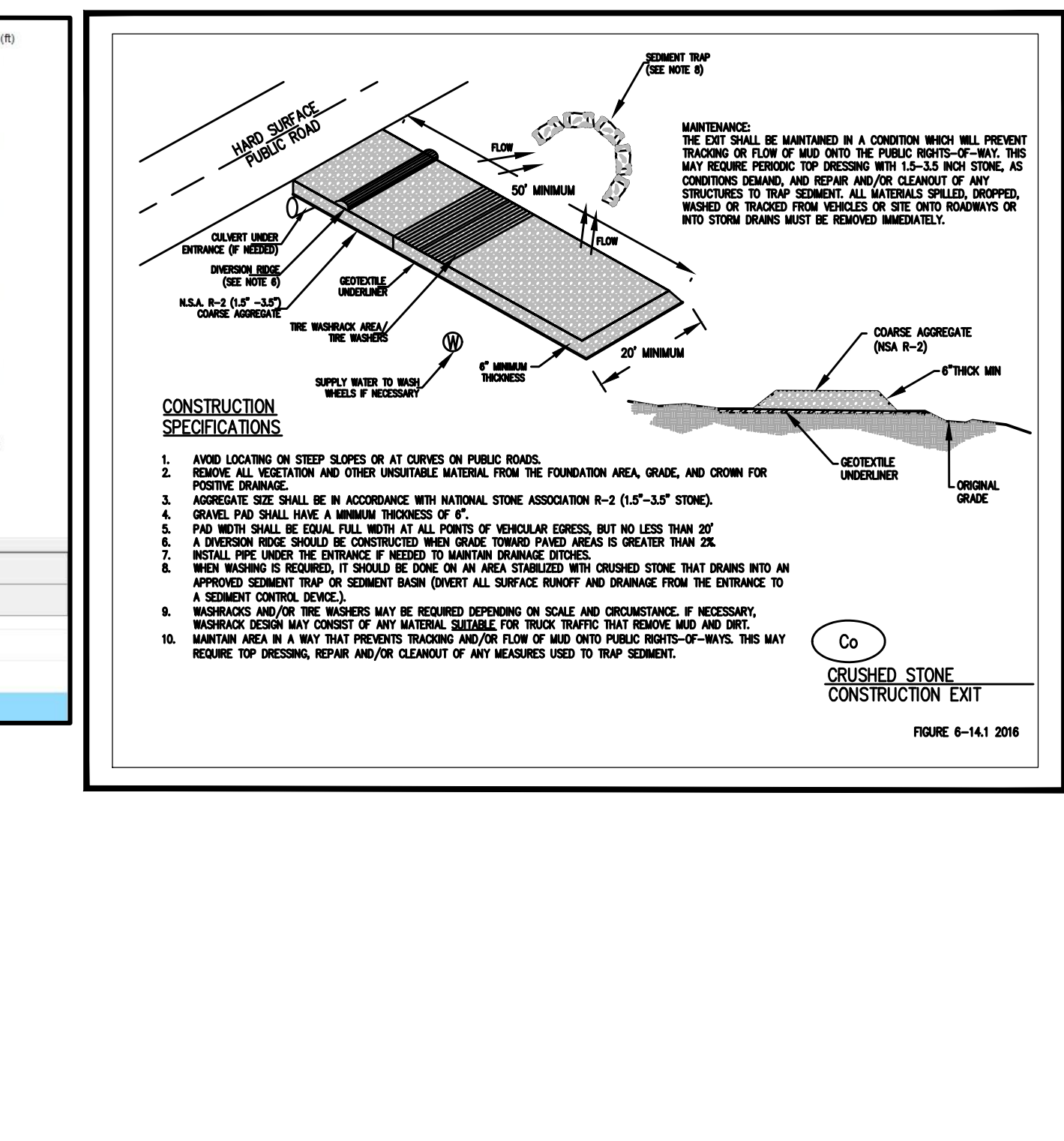
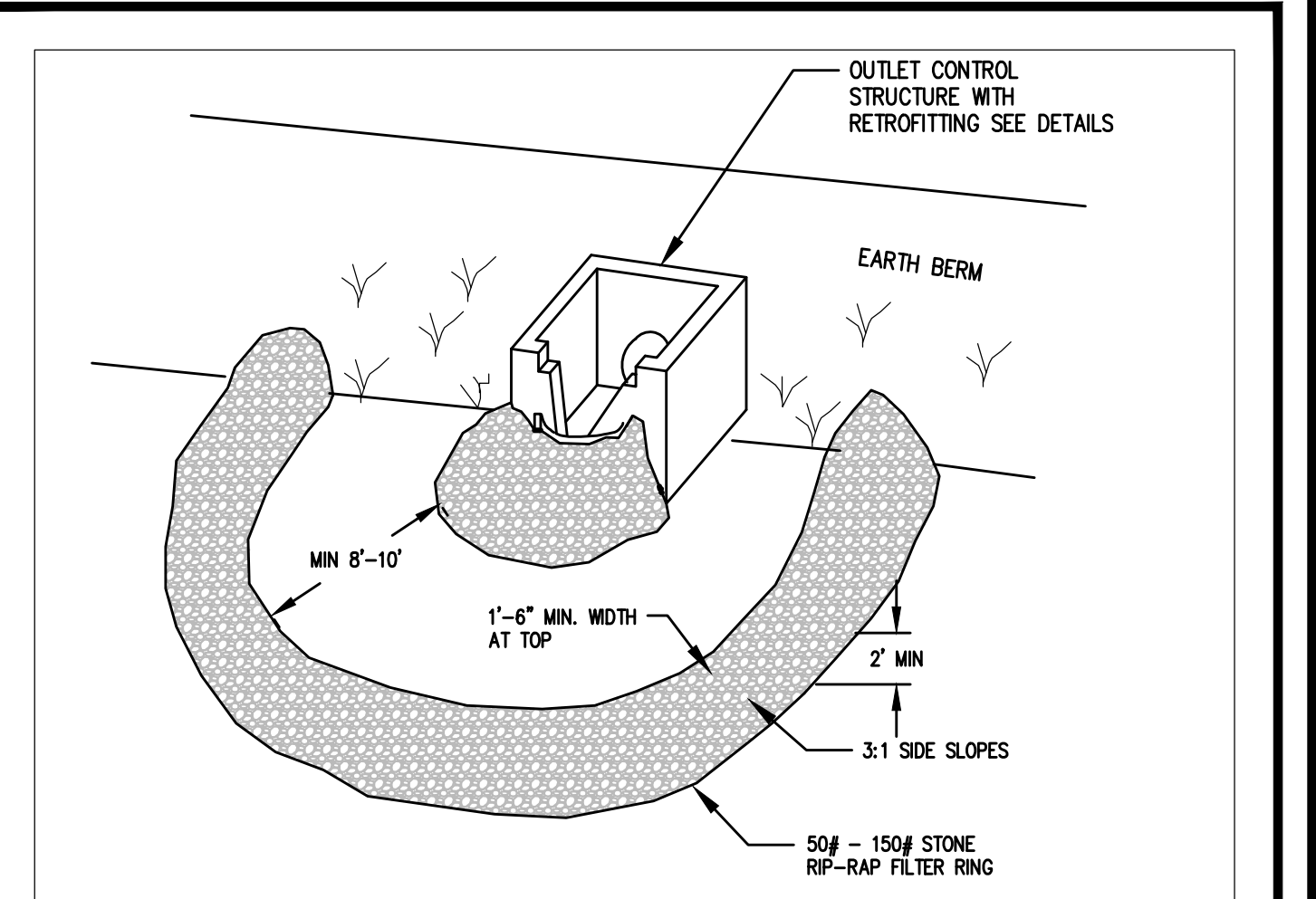
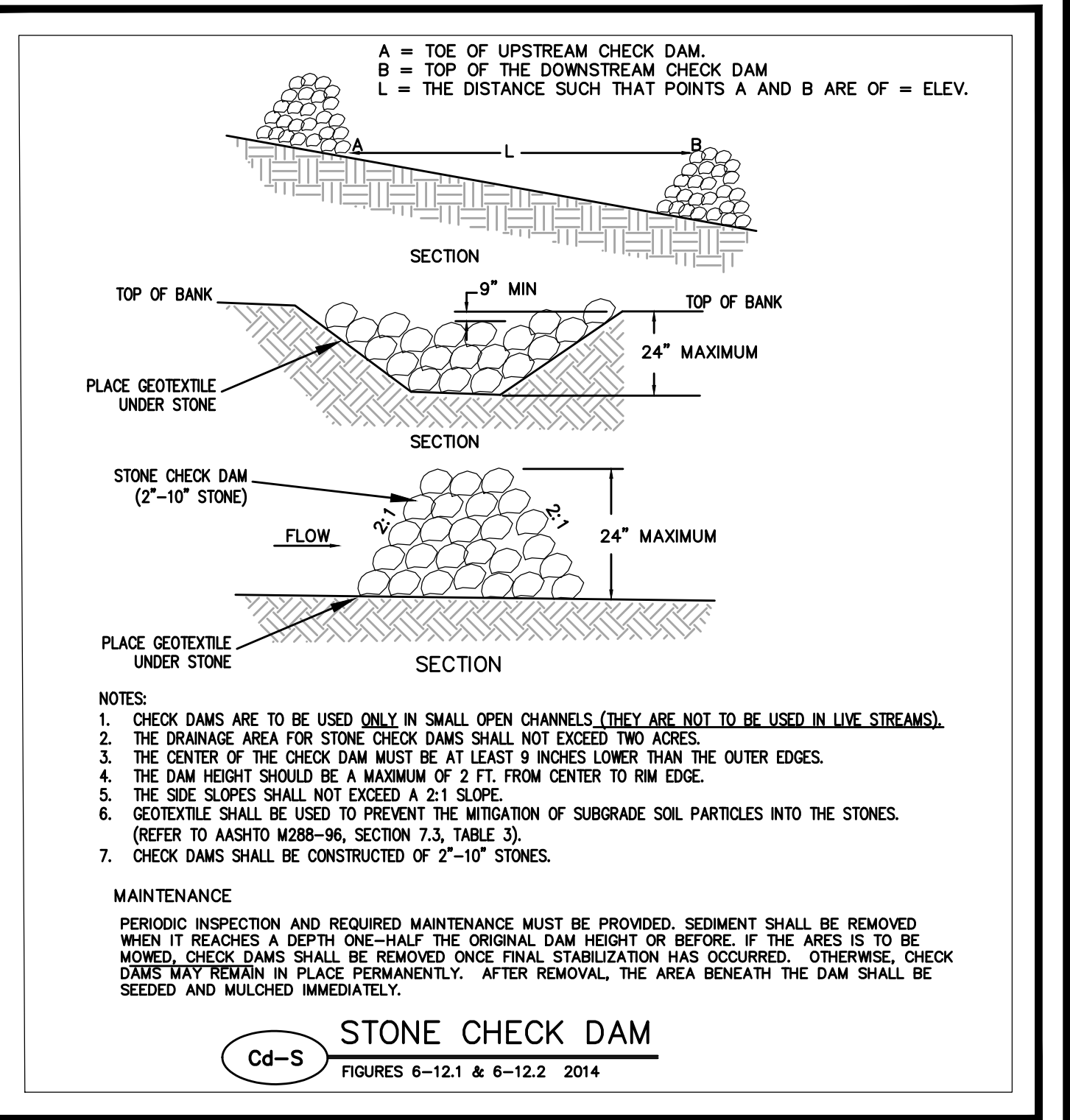


Table with columns: Inlet, Drainage Area, Vol Req, Depth, Side Slope, Surface Area (min), Radius, Length, Width, Vol Prov.

Table with columns: Inlet, Drainage Area, Vol Req, Depth, Side Slope, Surface Area (min), Radius, Length, Width, Vol Prov.

Table with columns: Inlet, Drainage Area, Vol Req, Depth, Side Slope, Surface Area (min), Radius, Length, Width, Vol Prov.

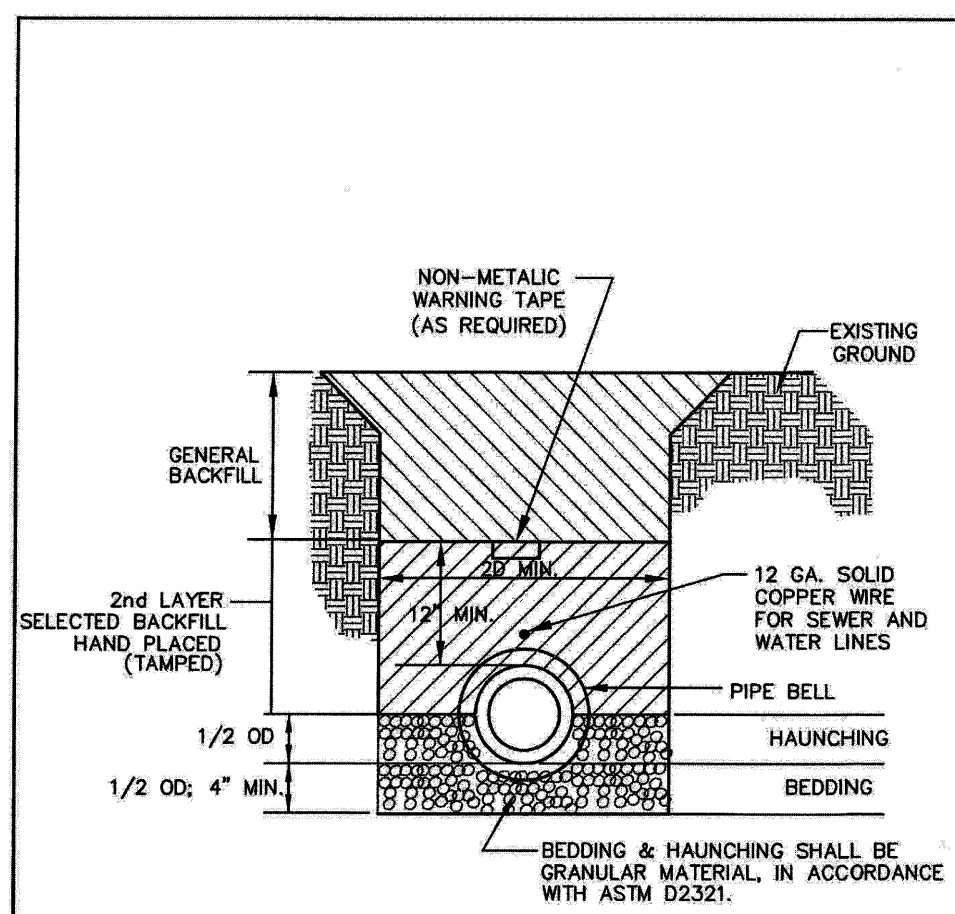
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Table with columns: Number, Bottom Width, Side Slope, Depth, Slope, Drainage Area, Q10, Velocity, Flow Depth, Freeboard.

Table with columns: Map Scale, Ground Slope, Contour Interval.

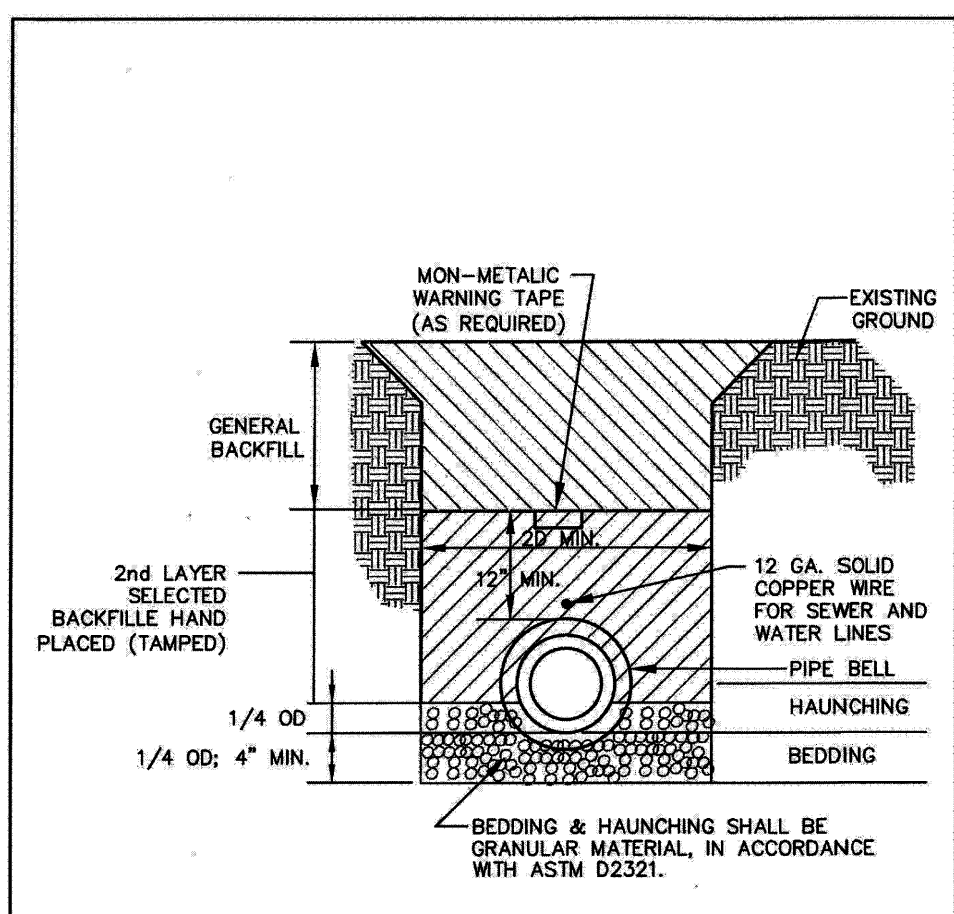
Table with columns: Project Name, Basin No., Total Area, Disturbed Area, Volume, Vs, Vc.

Address: TO BE SHOWN ON ESAPC PLAN 1. The applicant Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission is of January 1 of the year in which the land-disturbing activity was permitted. (If the completed Checklist must be submitted with the ESAPC Plan or the Plan will not be reviewed.) 2. Level of 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 ESAPC Plan or the Plan will not be reviewed.) 3. Level of disturbance shall not be greater than 50 acres at any one time without prior written authorization from the EPA District Office. If EPA 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 EPA must be attached to the Plan for the Plan to be reviewed.) 4. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution control. 5. Provide the name, address and phone number of the primary permittee or tertiary permittee. 6. Note label and distributed address of the project or phase under construction. 7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees. 8. Initial date of the Plan and the dates of any revisions made to the Plan including the only who requested the revisions. 9. Description of the nature of construction activity. 10. Provide vicinity map showing site location to surrounding areas. Include designation of specific phase, if necessary. 11. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected. 12. Design professionals certification statement and signature that the site was visited prior to development of the ESAPC Plan as stated on page 18 of the permit. 13. Design professionals certification statement and signature that the permittee's ESAPC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 17 & 18 of the permit. 14. Clearly note the statement that "The design professional who prepared the ESAPC Plan is to respect the maintainability of the site and not provide for debris erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source." 15. Clearly note the statement "Any disturbed areas left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." 16. Indicate that the applicable portion of the primary permittee ESAPC 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. 17. Any construction activity which discharges storm water into an Impaired Stream Segment or within a linear role system and within the same watershed as any portion of an Impaired Stream Segment must comply with Part 1, C, of the TMDL. Indicate the completed Appendix 1 listing all the BMPs but will not be used for those areas of the site which discharge to the Impaired Stream Segment." 18. If a TMDL Implementation Plan for sediment has been finalized by the Impaired Stream Segment (identified in Item 23 above) at least six months prior to submittal of NOL, the ESAPC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan." 19. BMPs for concrete washout of dust, concrete mixer trucks, hoppers and the rear of the vehicles. Washout of dust at the construction site is prohibited. 20. Provide BMPs for the remediation of all petroleum spills and leaks. 21. 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. 22. Description of the practices that will be used to reduce the pollutants in storm water discharges. 23. Description 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). 24. Provide complete requirements of inspections and record keeping by the primary permittee or tertiary permittee. 25. Provide complete requirements of sampling frequency and reporting sampling results. 26. Provide complete details for retention of records as per Part IV of the permit. 27. Description of analytical methods to be used to collect and analyze the samples from each location. 28. Appendix B rationale for NTU values at all outfall sampling points where applicable. 29. Delist all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. 30. 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 more grading and the final 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. 31. Plan addresses BMPs for all phases of common development including individual building lot and outfalls. 32. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. 33. Graphic scale and North arrow. 34. Existing and proposed contour lines with contour lines drawn at an interval of accordance with the following: Map Scale Ground Slope Contour Interval. 1 inch = 100ft or larger scale Flat 0 - 2% 0.5 or 1 1:2 2% to 10% 1 or 2 10% or steeper 2.5 or 10 35. Use of alternative BMPs whose performance has been documented to be equivalent or superior to conventional BMPs as certified by a Design Professional (permitted by EPA or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gswcc.org. 36. Use of alternative BMP for application to the Established BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. 37. 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. 38. Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site. 39. Delineation and acreage of contributing drainage basins on the project site. 40. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. 41. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. 42. Storm drain pipe and inlet velocities with appropriate underprotection to accommodate discharges without erosion. Identify/outline all storm water discharge points. 43. Soil series for the project site and see description. 44. The limits of disturbance for each phase of construction. 45. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, reworked 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 sediment controls where a sediment basin is not obtainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not obtainable 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. 46. 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 5, with legend. 47. 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. 48. Provide vegetation plan, noting all temporary and permanent vegetative practices. Include species planting dates and seedling, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia. *The requirement of the Common Development permit is not applicable to Tertiary Permittees with a Plan(s) for a typical individual lot(s). The lot level disturbance within the construction site is less than five (5) acres and the total lot disturbance within each individual lot is less than one (1) acre. If applicable, the "checked" item would be N/A. Effective January 1, 2018



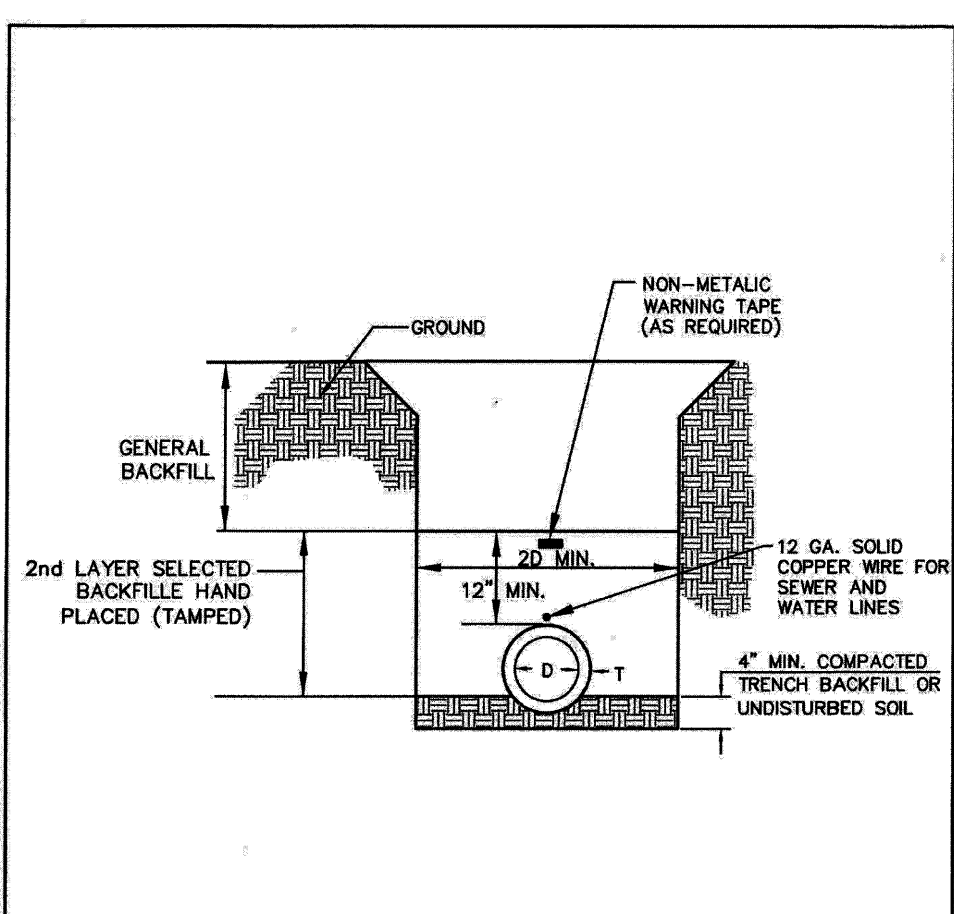
NOTES:
 1. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR BEDDING MATERIALS, BACKFILL MATERIALS, METHODS, AND ADDITIONAL REQUIREMENTS.
 2. REGARDLESS OF TYPE OF PIPE, WHEN WET TRENCH CONDITIONS ARE ENCOUNTERED A MINIMUM OF CLASS 5 BEDDING SHALL BE REQUIRED.

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	CLASS "B" BEDDING DETAIL	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			



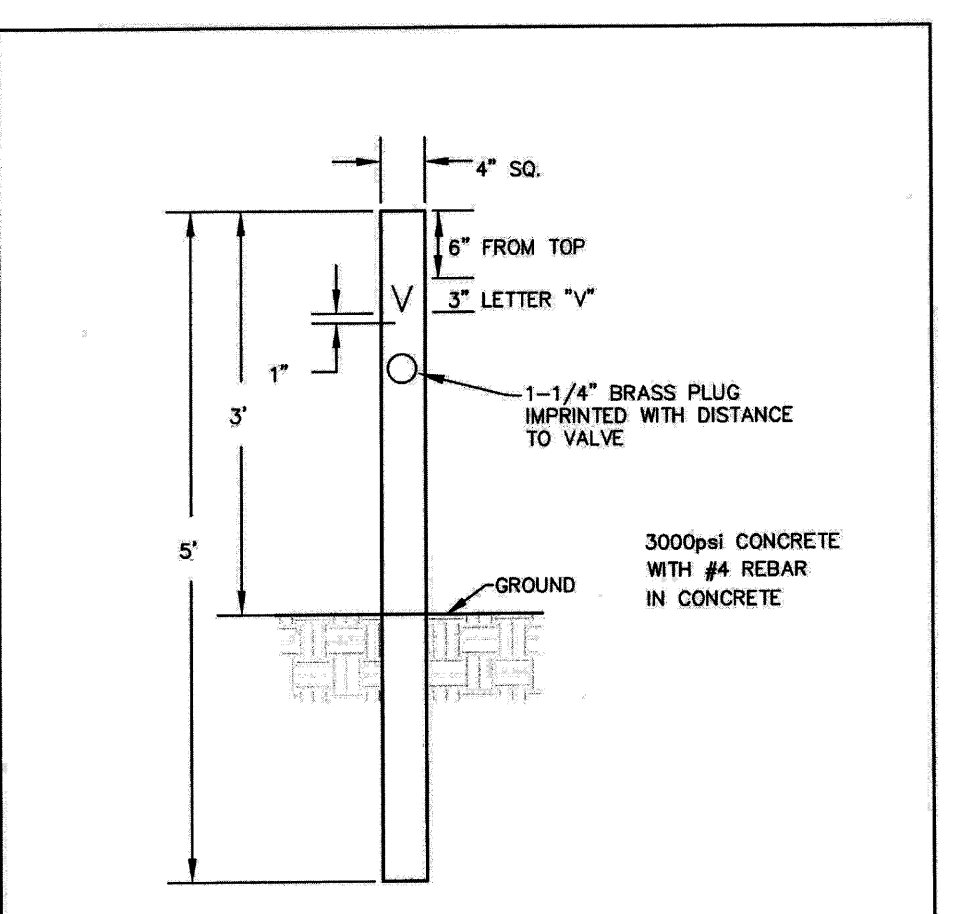
NOTES:
 1. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR BEDDING MATERIALS, BACKFILL MATERIALS, METHODS, AND ADDITIONAL REQUIREMENTS.

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	CLASS "A" BEDDING DETAIL	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			

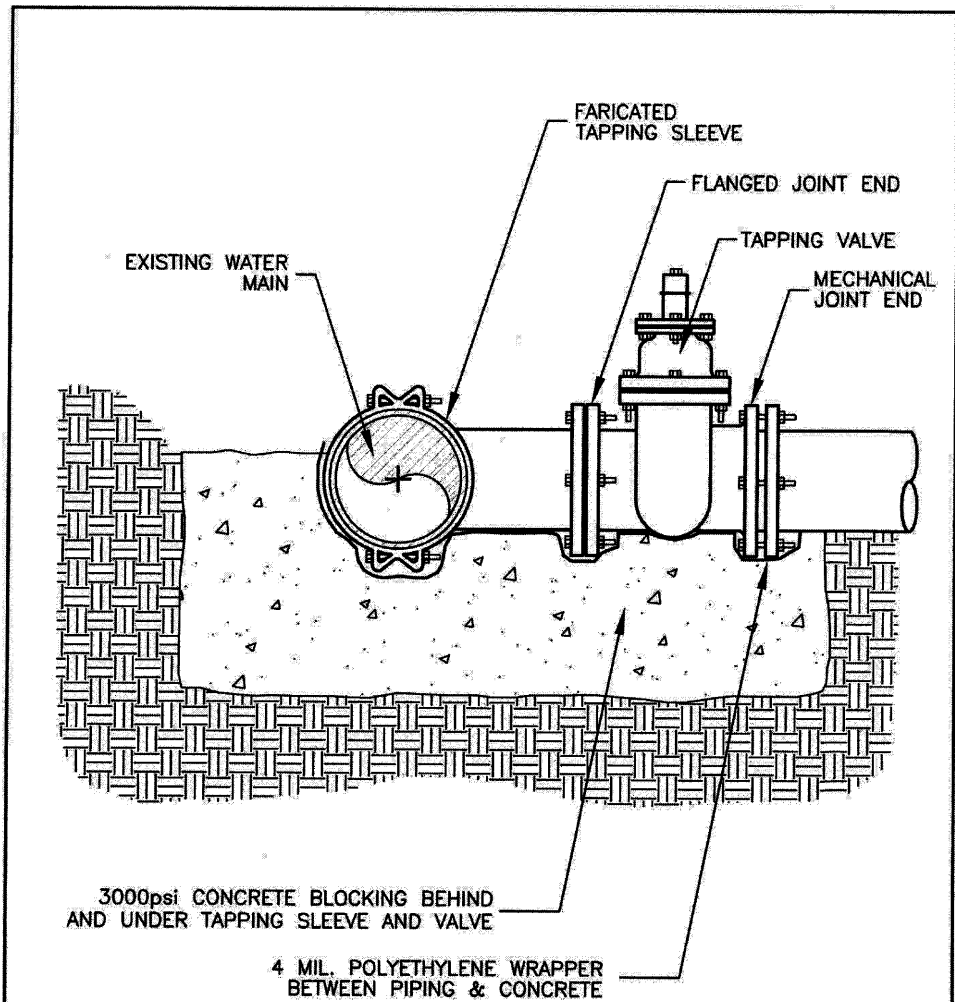


NOTES:
 1. SEE SPECIFICATIONS SECTION 02225(EARTHWORK FOR UTILITIES) FOR BEDDING MATERIALS, BACKFILL MATERIALS, METHODS, AND ADDITIONAL REQUIREMENTS.

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
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DETAIL NO.		FILE NO.	SCALE: N.T.S.			

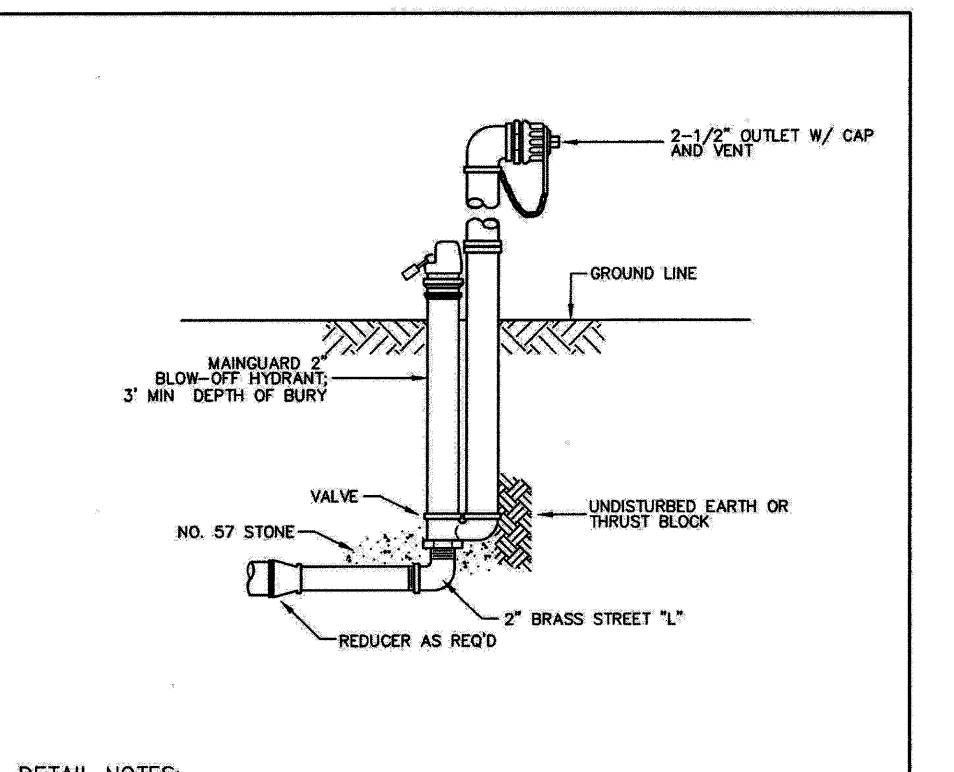


WATER & SEWER DETAILS						
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DETAIL NO.		FILE NO.	SCALE: N.T.S.			



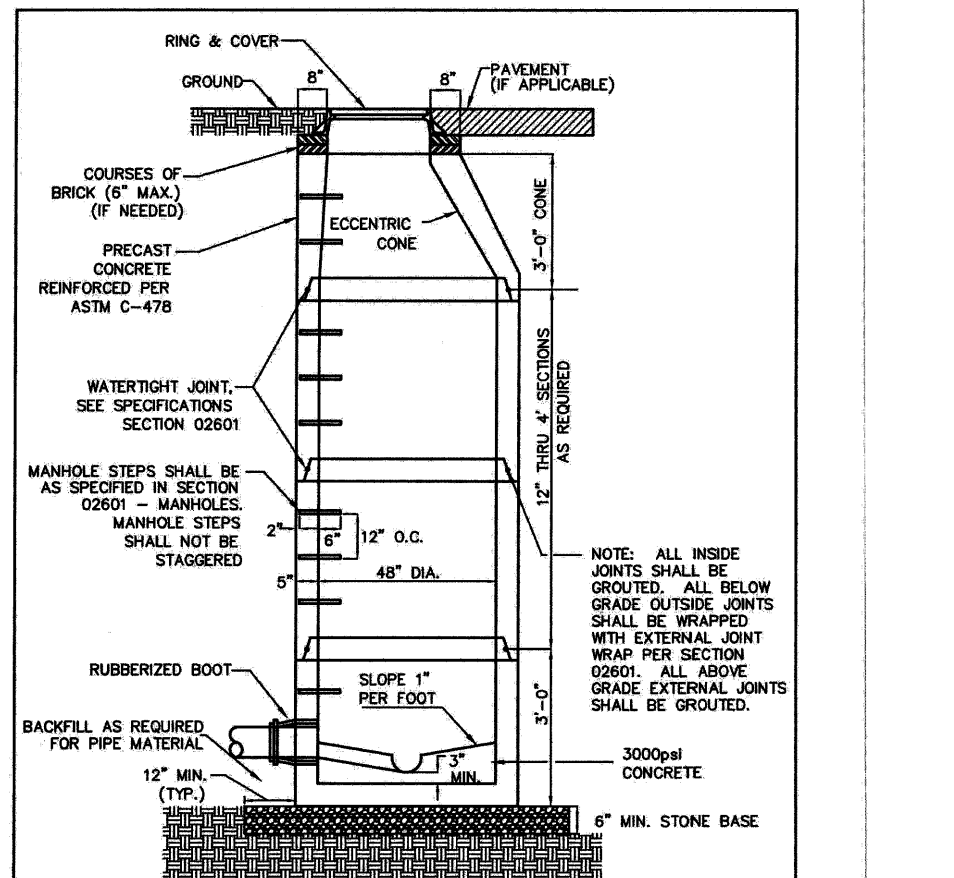
NOTES:
 1. TAPPING SLEEVE SHALL BE PER STANDARD SPECIFICATIONS SECTION 02860.
 2. DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE TESTS IN ACCORDANCE WITH SECTION 02860.

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	TAPPING SLEEVE AND VALVE	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			



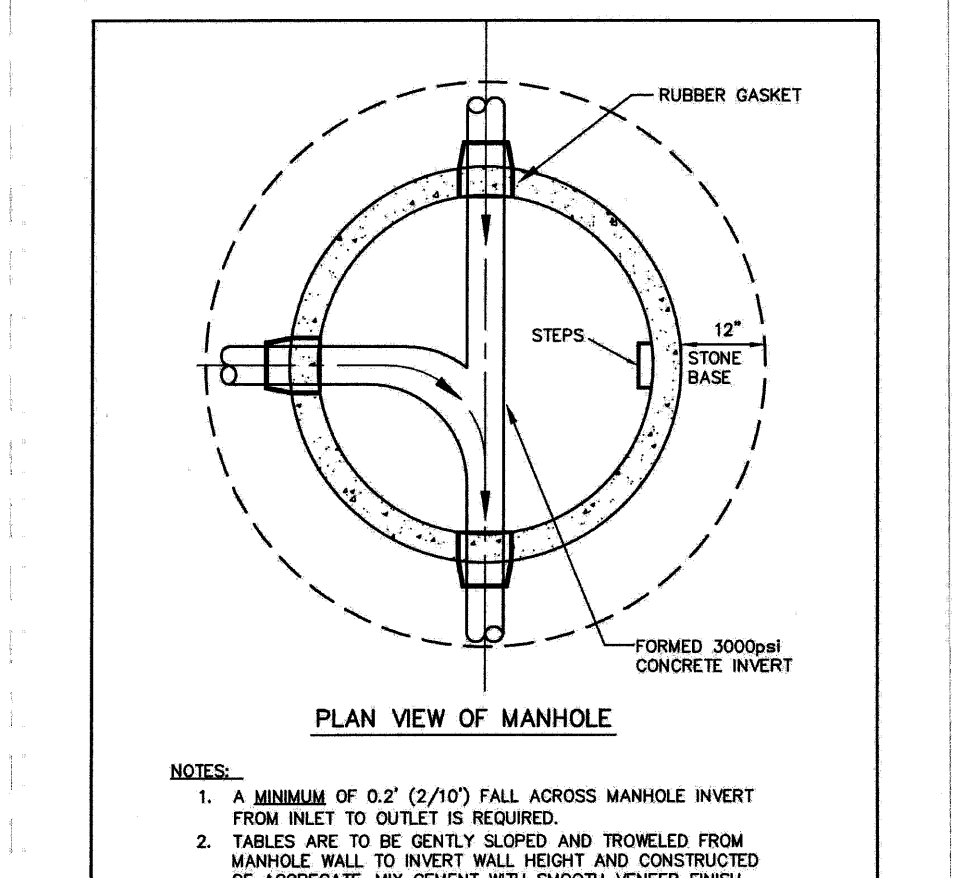
DETAIL NOTES:
 1. POST HYDRANTS SHALL BE NON-FREEZING SELF-DRAINING TYPE WITH A MINIMUM 3 FT BURIAL.
 2. HYDRANTS SHALL BE FURNISHED WITH A 2\"/>

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	FLUSH HYDRANT	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			



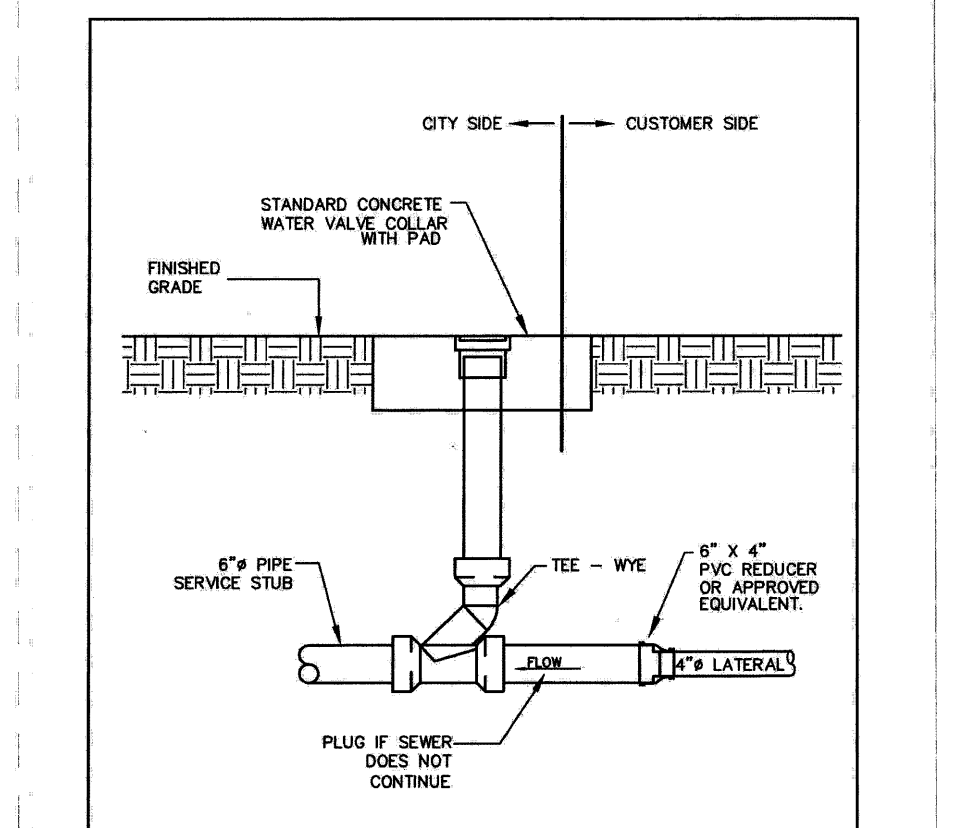
NOTE:
 DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM VACUUM TESTS IN ACCORDANCE WITH SECTION 02860-MANHOLES

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	MANHOLE INVERT	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			

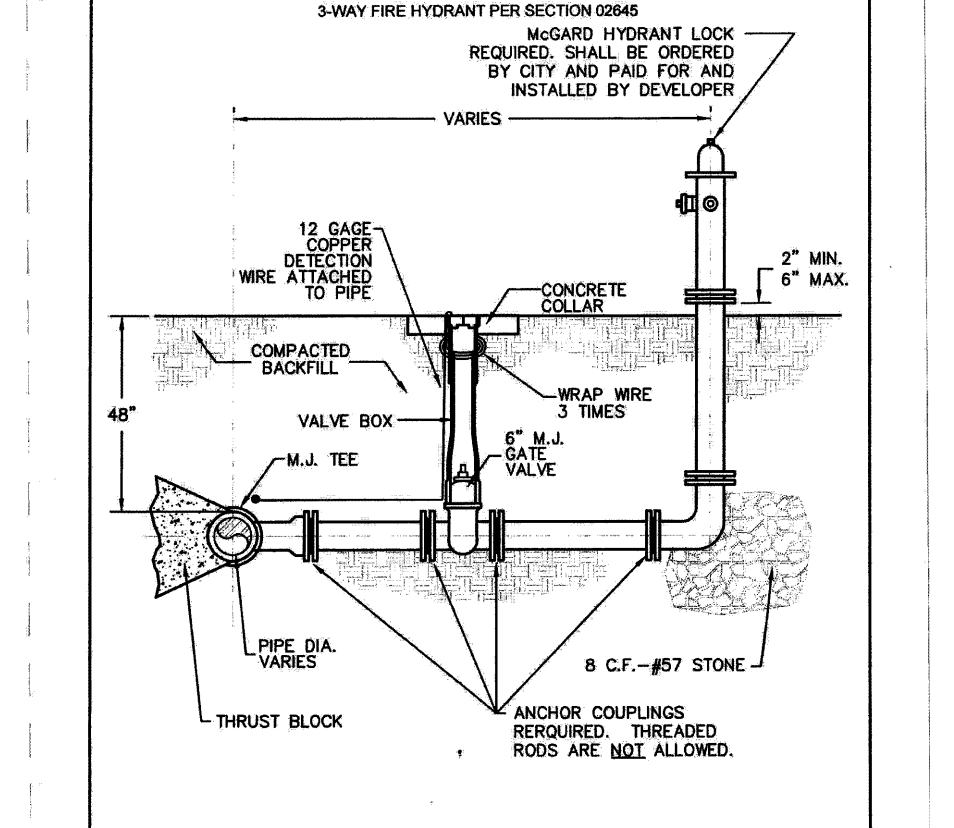


NOTES:
 1. A MINIMUM OF 0.2\"/>

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	MANHOLE INVERT	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			

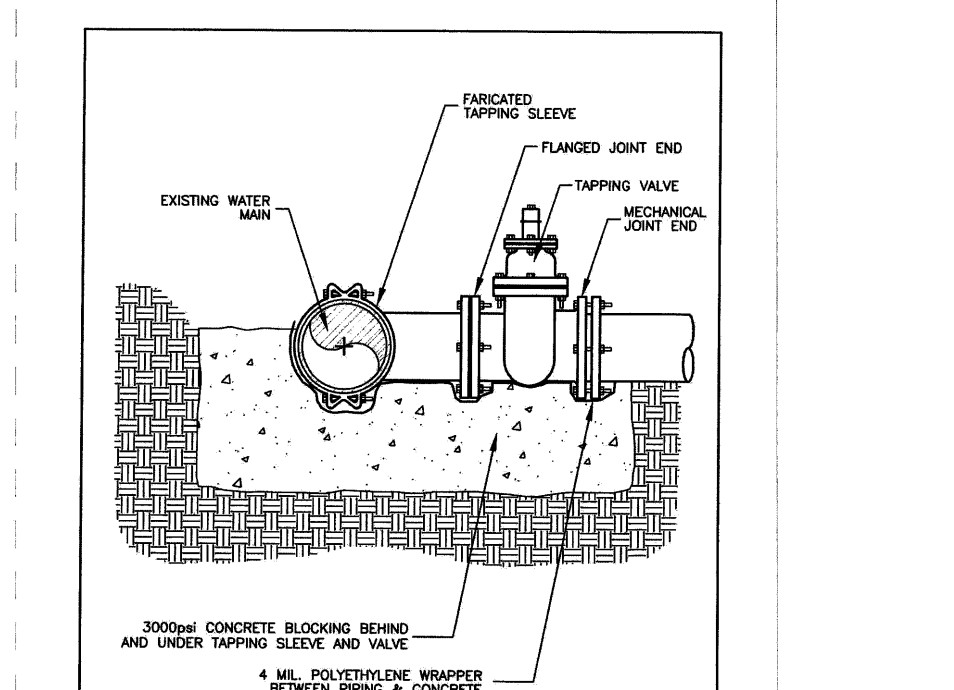


WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	CLEANOUT DETAIL AT PILE	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			



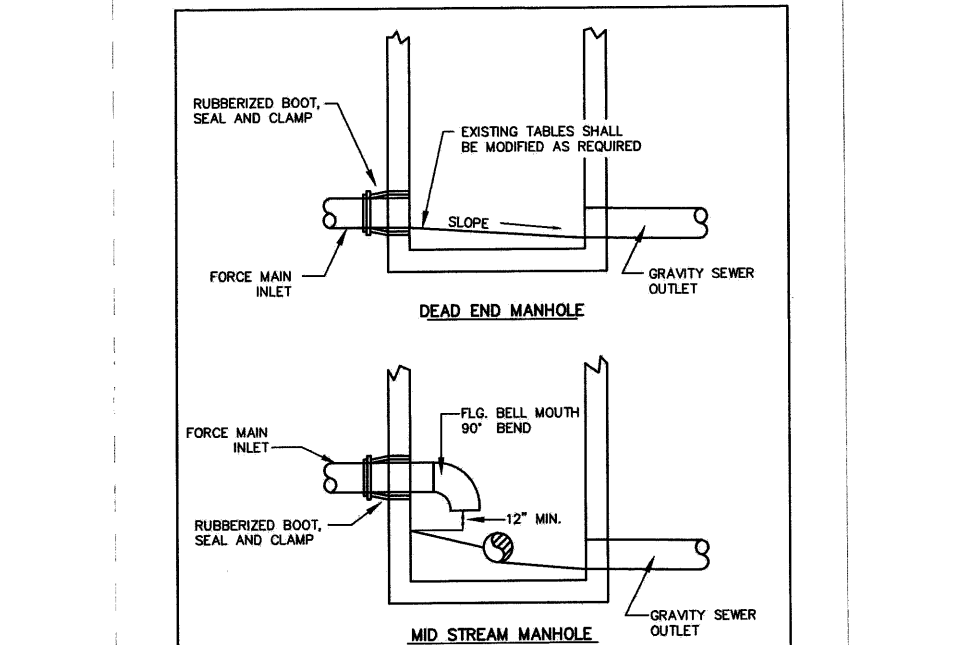
NOTE:
 1. FIRE HYDRANTS SHALL BE MANUFACTURED BY MUELLER SUPER CENTER, AMERICAN DANKLING, OR M.H.H.
 2. INSTALL NON-METALLIC TAPE APPROXIMATELY 12\"/>

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	FIRE HYDRANT ASSEMBLY	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			



NOTES:
 1. TAPPING SLEEVE SHALL BE PER STANDARD SPECIFICATIONS SECTION 02860.
 2. DEVELOPER/CONTRACTOR IS REQUIRED TO PERFORM HYDROSTATIC PRESSURE TESTS IN ACCORDANCE WITH SECTION 02860.

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	TAPPING SLEEVE AND VALVE	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			



NOTES:
 1. EXISTING MANHOLES SHALL BE CURED FOR FORCE MAIN INSTALLATION. NO MANHOLE SHALL BE CURED WITHOUT CITY APPROVAL AND CITY PERSONNEL ON SITE DURING THE CURING.
 2. THE MANHOLE WHEN A FORWARD TIES INTO SHALL BE COATED AS PER SPECIFICATION SECTION 02814. THIS APPLIES TO NEW MANHOLES AS WELL AS EXISTING LINES.

WATER & SEWER DETAILS						
JOB TITLE	SHEET TITLE	DESIGN BY	DATE	REV. NO.	BY	DATE
STANDARD DETAIL	FORCE MAIN TO MANHOLE CONNECTION	EMM				
DETAIL NO.		FILE NO.	SCALE: N.T.S.			

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Date	By	Description
	App.	

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Project Title
BLUE RIDGE ASSISTED LIVING DEVELOPMENT EXPANSION

Project Location
 Address US HWY 19-129, SR 11
 City, State Zip BLUE RIDGE, GEORGIA 30513
 Land Lot 28
 District-Section 7TH-2ND
 County FANNIN

Project No. 17-0579-c
 Drawn By: NQF
 Checked By: SMB
 Initial Issue Date: 02-05-2018

Sheet Title

