

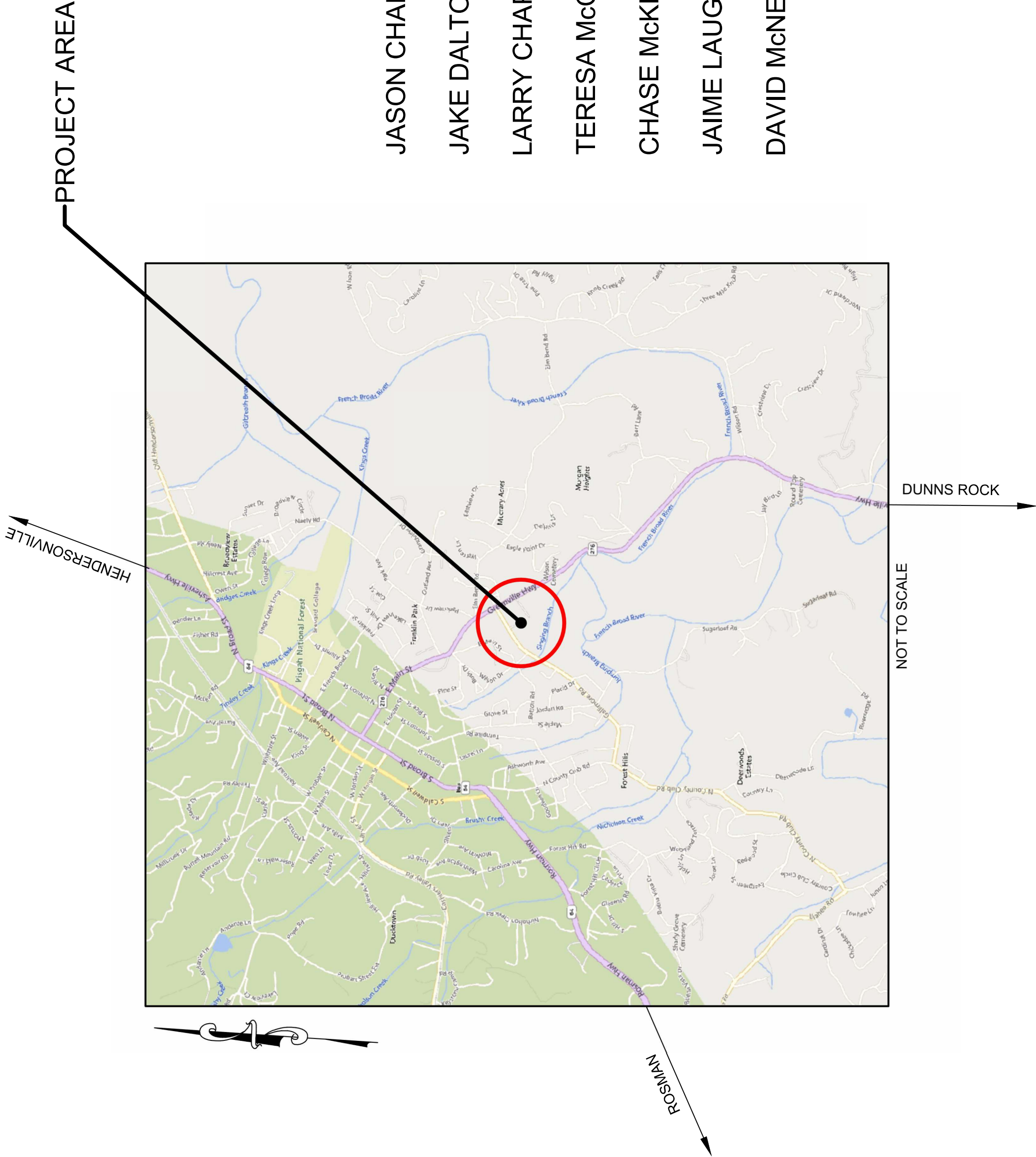
BOYS & GIRLS CLUB SEWER EXTENSION

TRANSYLVANIA COUNTY

ARPA PROJECT NO. SRP-D-ARP-0338

BREVARD, TRANSYLVANIA COUNTY, NORTH CAROLINA

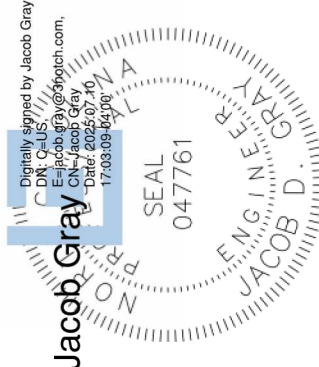
JULY 2025



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TRANSYLVANIA COUNTY

JASON CHAPPELL	CHAIR - BOARD OF COMMISSIONERS
JAKE DALTON	VICE CHAIR - BOARD OF COMMISSIONERS
LARRY CHAPMAN	MEMBER - BOARD OF COMMISSIONERS
TERESA MCCALL	MEMBER - BOARD OF COMMISSIONERS
CHASE MCKELVEY	MEMBER - BOARD OF COMMISSIONERS
JAIME LAUGHTER	COUNTY MANAGER
DAVID McNEILL	ASSISTANT COUNTY MANAGER



BID SET - NOT RELEASED FOR CONSTRUCTION

THREE NOTCH GROUP
122 LYMAN STREET
ASHEVILLE, NC 28801
PH: (828) 232-4700
NC FIRM C-4973
TNG PROJECT NUMBER: R028324001

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE OF A CONTRACTOR'S LICENSE AND BUSINESS LICENSE FROM THE CITY AND /OR COUNTY AS APPLICABLE. AS WELL AS, ALL OTHER LICENSES AND PERMITS REQUIRED FOR COMPLETION OF THE WORK.

2. EXCEPT FOR EMERGENCY WORK, WORK SHALL NOT BE PERFORMED ON SATURDAY, SUNDAY, OR ANY LEGAL HOLIDAY WITHOUT APPROVAL OF THE OWNER AND ENGINEER. WORK SHALL OCCUR DURING REASONABLE DAY-TIME HOURS. REQUESTS FOR DEVIATIONS FROM THIS SCHEDULE SHALL BE MADE TO THE ENGINEER ON A CASE-BY-CASE BASIS A MINIMUM OF 72 HOURS PRIOR, EXCEPT FOR EMERGENCIES, IN WHICH CASE NO SUCH APPROVAL IS REQUIRED.

3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND DEVELOPMENT OF CONSTRUCTION BEST MANAGEMENT PRACTICES PLANS (CBMP) RELATED TO EROSION AND SEDIMENT CONTROL AS MAY BE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND REGULATORY AGENCIES. UNLESS SUCH PERMITS AND/OR CBMPs ARE ATTACHED TO THE CONTRACT DOCUMENTS, IN ALL CIRCUMSTANCES, THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY INSTALLING AND MAINTAINING SUFFICIENT EROSION CONTROL MEASURES AS MAY BE REQUIRED TO PREVENT SEDIMENT FROM DISCHARGING FROM THE SITE, AND IN COMPLIANCE WITH ANY PERMITS AND CBMP.

4. THE CONTRACTOR SHALL, AT A MINIMUM, COMPLETE SATISFACTORY ROUGH GRADING, ROCK REMOVAL (IF PRESENT), AND TEMPORARY SEEDING NO LATER THAN 13 DAYS FOLLOWING INITIAL GROUND DISTURBANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REGRADING, FERTILIZATION, WATERING, AND RE-SEEDING AS REQUIRED TO ESTABLISH AND MAINTAIN TEMPORARY GRASSING SUITABLE TO PROPERLY MITIGATE EROSION. PERFORMANCE OF INITIAL ROUGH GRADING AND ESTABLISHMENT OF TEMPORARY GRASSING SHALL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO PERFORM THE REQUIRED FINE GRADING, TOPSOIL PLACEMENT, ESTABLISHMENT OF PERMANENT GRASSING, AND OTHER RESTORATION AS REQUIRED BY THE CONTRACT.

5. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTATION OF PRE-EXISTING CONDITIONS PRESENT WITHIN AND ADJACENT TO THE CONSTRUCTION AREA. DOCUMENTATION OF EXISTING CONDITIONS SHALL CONSIST OF DATE-STAMPED VIDEO, PHOTOGRAPHS, AND WRITTEN RECORDS. COPIES OF ALL DOCUMENTATION SHALL BE DELIVERED TO THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. DOCUMENTATION OF PRE-EXISTING CONDITIONS IS REQUIRED TO AVOID CLAIMS FOR DAMAGE TO PROPERTY.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS ACTIVITIES IN THE PROJECT AREA, WHETHER ON PUBLIC OR PRIVATE PROPERTY. DAMAGE SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS OR BETTER, AND TO THE SATISFACTION OF THE ENGINEER AND LAND OWNER(S). REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITY IN THE PROJECT AREA WITH THE COUNTY, CITY, AND STATE, AS APPLICABLE.

8. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS AS TO NOT DISTURB PROPERTY CORNER/ROW MARKERS AND BENCHMARKS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, INCLUDING ANY REQUIRED SURVEYING, TO REPLACE ANY DISTURBED MARKERS AND/OR MONUMENTS.

9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH THE REQUIREMENTS OF PART 6 OF THE MUTCD, LATEST EDITION, AND IN ACCORDANCE WITH ANY ATTACHED TRAFFIC CONTROL PLAN.

10. UNLESS APPROVED IN ADVANCE BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ACCESS FOR THE TRAVELING PUBLIC, EMERGENCY, AND SCHOOL VEHICLES AT ALL TIMES ALONG ALL CITY, COUNTY, AND STATE RIGHTS OF WAY. IF A ROAD CLOSURE IS ALLOWED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUCH CLOSURES WITH CITY, COUNTY, AND/OR STATE AGENCIES, AND EMERGENCY AGENCIES, IN ACCORDANCE WITH THOSE PARTIES' REQUIREMENTS.

11. DRIVEWAYS WHICH MAY HAVE BEEN CUT OR OTHERWISE DAMAGED DURING THE CONSTRUCTION ACTIVITIES SHALL BE MAINTAINED IN A USABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO RE-OPEN DRIVEWAYS AS SOON AS POSSIBLE. IN NO CASE SHALL DRIVEWAYS BE CLOSED OVERNIGHT.

12. ALL EQUIPMENT SHALL BE PARKED AND ALL MATERIALS SHALL BE STORED AT A LOCATION OUTSIDE THE PUBLIC RIGHT OF WAY AT A LOCATION OF THE CONTRACTOR'S CHOOSING. PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE FROM THE OWNER OF SUCH PARKING AND STORAGE AREA(S), THAT THE AREA(S) HAVE BEEN RESTORED TO LAND OWNER'S SATISFACTION, AND THE TERMS ASSOCIATED WITH ANY SUCH ARRANGEMENTS HAVE BEEN SATISFIED.

13. EXISTING DRAINAGE SYSTEMS SHALL REMAIN FULLY OPEN THROUGHOUT THE PROJECT DURATION. ANY DISTURBANCE OR DAMAGE TO EXISTING DRAINAGE SYSTEMS AND STRUCTURES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE CITY, COUNTY, AND/OR STATE AT NO ADDITIONAL COST TO THE OWNER.

14. EXCEPT FOR WHERE THE PLANS STATE OTHERWISE, OR THE PLANS REQUIRE TEMPORARY CONSTRUCTION FENCING TO BE INSTALLED, EXISTING FENCES SHALL NOT BE REMOVED, RELOCATED, OR OTHERWISE DAMAGED DURING THE CONSTRUCTION ACTIVITIES. REMOVED, RELOCATED, OR DAMAGED FENCES SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AND LAND OWNER AT NO ADDITIONAL COST TO THE OWNER.

15. RESIDENTS AND BUSINESS SHALL NOT BE LEFT WITHOUT MAIL SERVICE. IF A MAILBOX MUST BE MOVED TO FACILITATE CONSTRUCTION, IT SHALL BE TEMPORARILY AND SATISFACTORILY RELOCATED AS CLOSE AS PRACTICABLE TO ITS ORIGINAL LOCATION, AND IN ACCORDANCE WITH UNITED STATES POST OFFICE GUIDELINES FOR MAILBOX PLACEMENT.

16. JOB SITE SHALL BE CLEANED ON A DAILY BASIS. THE CONTRACTOR SHALL RESTORE ALL AREAS, WHETHER PUBLIC OR PRIVATE, AS SOON AS PRACTICABLE FOLLOWING COMPLETION OF PARTICULAR CONSTRUCTION ACTIVITIES.

17. THE CONTRACTOR SHALL REPAIR ALL EXCAVATED AREAS, BACKFILLS, EMBANKMENTS, TRENCHES, AND DITCHES WHICH MAY HAVE SETTLED AT NO ADDITIONAL COST TO THE OWNER UNTIL FINAL ACCEPTANCE OF THE PROJECT AND THROUGHOUT THE WARRANTY PERIOD. ALL SUCH AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONTOURS.

18. UNLESS NOTED ELSEWHERE, NO ADDITIONAL PAYMENT SHALL BE MADE FOR ROCK EXCAVATION AND REMOVAL (IF PRESENT). BIDDERS MAY MAKE THEIR OWN INVESTIGATION AS TO THE AMOUNT AND CHARACTER OF ROCK WHICH MAY NEED TO BE REMOVED. ALL COSTS FOR ROCK EXCAVATION SHALL BE CONSIDERED TO HAVE BEEN INCLUDED IN THE VARIOUS PAY ITEMS IN THE PROPOSAL. ANY INFORMATION PROVIDED CONCERNING THE DEPTH TO AND/OR CHARACTER OF ROCK PRESENT IS PROVIDED FOR THE CONVENIENCE OF THE BIDDER AND CONTRACTOR AND SHALL NOT BE USED AS THE BASIS FOR CLAIMS FOR ADDITIONAL PAYMENT.

19. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL GRASSED AREAS AT ITS EXPENSE UNTIL FINAL ACCEPTANCE AND THROUGHOUT THE WARRANTY PERIOD. MAINTENANCE OF GRASSED AREAS SHALL INCLUDE RE-GRADING, RE-FERTILIZATION, RE-SEEDING, WATERING, AND ANY OTHER WORK AS REQUIRED, TO PRODUCE AND KEEP THE GRASS IN A CONDITION ACCEPTABLE TO THE ENGINEER AND LAND OWNER.
- UTILITY NOTES:
1. EXISTING UTILITIES ARE DEPICTED BASED ON FOUR (4) "QUALITY LEVELS" DEFINED AS FOLLOWS:

a. QUALITY LEVEL A - HORIZONTAL AND VERTICAL LOCATION OBTAINED BY ACTUAL EXPOSURE AND MEASUREMENT OF THE UTILITY AT A SPECIFIC POINT.

b. QUALITY LEVEL B - APPROXIMATE LOCATION OBTAINED FROM SURFACE GEOPHYSICAL METHODS. NO DEPTH INFORMATION INCLUDED.

c. QUALITY LEVEL C - APPROXIMATE LOCATION SURVEYED AND PLOTTED BASED ON VISIBLE ABOVE-GROUND UTILITY FEATURES.

d. QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS AND/OR ORAL RECOLLECTIONS.

2. ALL UTILITIES ARE DEPICTED AT "QUALITY LEVEL B" UNLESS INDICATED OTHERWISE AND LABELED AS "QL-C" OR "QL-D".

3. ANY "QUALITY LEVEL A" ELEVATIONS PROVIDED ARE FROM THE TOP OF THE UTILITY AT THE APPROXIMATE LOCATION SHOWN, UNLESS OTHERWISE NOTED.

4. NEITHER THE OWNER NOR THE ENGINEER MAKES ANY EXPRESSED OR IMPLIED GUARANTEE OF THE ACCURACY OF UTILITIES SHOWN OR ANY GUARANTEE THAT ALL UTILITIES LOCATED WITHIN THE CONSTRUCTION AREA ARE SHOWN HEREIN.

5. THE CONTRACTOR SHALL CALL NORTH CAROLINA ONE CALL AT 811 FOR UTILITY MARKING PRIOR TO COMMENCING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

6. UNLESS OTHERWISE NOTED, DISTANCES AND SLOPES OF GRAVITY SEWER MAINS ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

7. THE CONTRACTOR SHALL COORDINATE ALL WORK ADJACENT TO EXISTING UTILITY POLES AND GUY WIRES WITH THE LOCAL POWER COMPANY. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY TO HOLD SAID UTILITY POLES/GUY WIRES DURING BORING OR OPEN CUT OPERATIONS. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE.

8. THE CONTRACTOR SHALL COORDINATE ALL TIE-INS, CONNECTIONS, OUTAGES, AND VALVING OPERATIONS WITH THE UTILITY OWNER. THE CONTRACTOR SHALL GIVE 72 HOURS NOTICE TO THE UTILITY OWNER OF WHEN SUCH OPERATIONS ARE TO TAKE PLACE.

9. THE CONTRACTOR SHALL COORDINATE WITH AND PROVIDE REASONABLE NOTICE TO RESIDENTS AND BUSINESSES OF UTILITY SERVICE OUTAGES PRIOR TO BEGINNING SUCH OPERATIONS. NO RESIDENT OR BUSINESS SHALL BE LEFT WITH OUT SERVICE OVERNIGHT.
- PROJECT-SPECIFIC NOTES:
1. THE FULL WIDTH OF THE PERMANENT EASEMENT SHALL BE CLEARED OF ALL TREES AND SHRUBS. EXISTING FENCES/GATES SHALL REMAIN IN PLACE. ANY FENCE/GATE THAT IS REMOVED FOR SEWER MAIN INSTALLATION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS WITH LIKE MATERIALS AND TO THE ENGINEER'S AND LAND OWNER'S SATISFACTION. CLEARING OR REMOVAL OF TREES, FENCES, ETC. ON THE TEMPORARY CONSTRUCTION EASEMENT (T.C.E.) IS NOT ALLOWED.

2. THE LOCATION OF THE PERMANENT AND TEMPORARY EASEMENTS WILL BE STAKED BY OTHERS AT 100' INTERVALS. SUCH STAKING WILL BE PERFORMED IN A SINGLE OPERATION AND ONE TIME ONLY. ANY ADDITIONAL STAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION LIMITS WITH OWNER.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO SPILL OR OVERFLOW OF RAW SEWAGE OCCURS AS A RESULT OF BLOCKAGES, EQUIPMENT FAILURE, POOR CONSTRUCTION PROCEDURES OR NEGLIGENCE BY THE CONTRACTOR'S EMPLOYEES. ANY FINES OR EXPENSES INCURRED AS A RESULT OF OVERFLOWS/SPILLS WILL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING REQUIRED BYPASS PUMPING RATE AND FOR PROVIDING SUITABLE MEANS TO MAINTAIN ALL WASTEWATER FLOW RATES WITHOUT BACKUP, OVERFLOW, OR SPILL.

6. ALL BYPASS PUMPING HOSES SHALL BE WATERTIGHT AND FREE FROM LEAKS. ALL TEMPORARY TIE-INS TO THE BYPASS HOSES SHALL ALSO BE WATERTIGHT.

7. THE OWNER WILL PERFORM A POST-CONSTRUCTION TELEVISION INSPECTION (TVI) OF THE NEWLY COMPLETED SEWER MAIN. ACCEPTANCE OF THE PROJECT WILL BE BASED ON THE REVIEW OF THE TVI (IN ADDITION TO OTHER REQUIREMENTS) BEFORE FINAL PAYMENT.

8. COORDINATES ARE NC GRID NAD 83.

9. ALL SURVEY INFORMATION USED FOR DESIGN WAS SUPPLIED BY OTHERS. CDG, INC. IS NOT RESPONSIBLE FOR ANY ERRORS IN SURVEY INFORMATION SHOWN HEREIN OR UTILIZED FOR DESIGN.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH CONCURRENT SEWER PROJECT CONTRACTOR AND THE BOYS & GIRLS CLUB CONTRACTOR AS NECESSARY.

11. WHEN PERFORMING WORK WITHIN STREAMBAND AND/OR WETLAND BOUNDS:

- ANY EXPOSED SLOPES AND STREAM BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF THE SEWER MAIN INSTALLATION WITHIN THE WETLAND AREA. ALL DISTURBED AREAS SHOULD BE STABILIZED AT THE END OF EACH WORK DAY

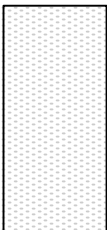
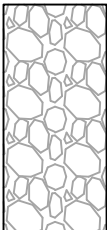
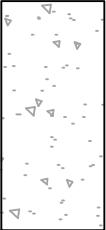
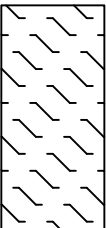
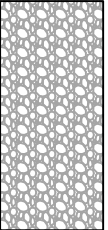
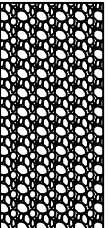
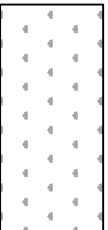
- EROSION CONTROL MATTING SHALL BE FREE OF NYLON OR PLASTIC MESH.

- TEMPORARY SEEDING SHALL NOT INCLUDE INVASIVE SPECIES. SEE PRE-CONSTRUCTION NOTICE FOR SEEDING SCHEDULE.

- NATIVE LIVESTAKES SHALL BE USED IN STREAMBANK STABILIZATION

12. DURING CONSTRUCTION, MATS SHALL BE USED BENEATH EQUIPMENT TO PREVENT DISTURBANCE OF SURROUNDING WETLAND AREAS.

13. ALL DISTURBED AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONTOURS AND CONDITIONS. 6-8 INCHES OF NATURAL BED MATERIAL SHALL BE PLACED ON TOP OF RESTORED STREAM CHANNEL BED.
- REPRESENTATIVE FROM THE ENGINEER'S OFFICE, CITY OF BREVARD, AND THE CONTRACTOR.
17. THE ENGINEER SHALL BE NOTIFIED AND INVITED TO ANY TESTING ON THE SEWER EXTENSION BY THE CONTRACTOR. THE ENGINEER'S ATTENDANCE AT SUCH TEST IS HIGHLY DESIRABLE BUT NOT MANDATORY.

18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE SURVEY AND CONSTRUCTION PRACTICES TO ENSURE MINIMUM SLOPES ARE MET ON ALL SEWER LINES.
- UTILITIES
EXISTING
PROPOSED
- | | | |
|-----------------------------------|---|---|
| POWER POLE |  |  |
| LIGHT POLE |  |  |
| TELEPHONE POLE |  |  |
| ANCHOR |  |  |
| STUB (TELEPHONE) |  |  |
| ELECTRIC METER |  |  |
| BURIED ELECTRIC CABLE |  |  |
| OVERHEAD ELECTRIC CABLE |  |  |
| ELECTRIC MANHOLE |  |  |
| ELECTRIC TRANSFORMER |  |  |
| TOWER |  |  |
| TELEPHONE PEDESTAL |  |  |
| BURIED TELEPHONE CABLE |  |  |
| OVERHEAD TELEPHONE CABLE |  |  |
| BURIED FIBER OPTIC |  |  |
| TELEPHONE MANHOLE |  |  |
| WATER MAIN |  |  |
| WATER VALVE |  |  |
| FIRE HYDRANT |  |  |
| WATER METER |  |  |
| GAS MAIN |  |  |
| GAS VALVE |  |  |
| GAS REGULATOR |  |  |
| SANITARY SEWER |  |  |
| FORCE MAIN |  |  |
| SEWER MANHOLE |  |  |
| PUMP STATION |  |  |
| AIR/VACUUM RELEASE VALVE |  |  |
| CLEANOUT |  |  |
| DITCH LINE |  |  |
| STORM MANHOLE |  |  |
| SIGN |  |  |
| MAIL BOX |  |  |
| A/C UNIT |  |  |
| BORING LOCATION OR TEST PIT |  |  |
| WELL |  |  |
| MONITORING WELL |  |  |
| FLAG POLE |  |  |
| SPOT ELEVATION |  |  |
| FOUND IRON PIN |  |  |
| SET IRON PIN |  |  |
| CONCRETE MARKER |  |  |
- | EXISTING | REQUIRED | PROPOSED
(BY OTHERS) | EXISTING | REQUIRED |
|-----------|--|---|----------|---|
| ASPHALT |  |  | RIP-RAP |  |
| CONCRETE |  |  | WATER |  |
| GRAVEL |  |  | MARSH |  |
| STRUCTURE |  | | | |
-
- THIS SEAL IS ONE INCH ON
0 AND ONE HALF INCHES
THE ORIGINAL
ADJUST SCALES ACCORDINGLY
- SCALE: _____
- DATE: _____
- REVISION
-
-
-
-
-
- PROJECT NO. R023824001
- SHEET NO. C-101
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- C-101 NOTES & LEGEND.dwg

BEST MANAGEMENT PRACTICES

- I. GENERAL:

THE INTENT OF THIS GENERIC PLAN IS TO PREVENT EROSION AND RESULTING SILT TRANSPORTATION OFF SITE. THE ITEMS INDICATED ARE ENGINEERS BEST ESTIMATE OF REQUIREMENTS; MORE OR LESS MAY BE NEEDED DEPENDING ON THE SITE CONDITION, SEASONS, ETC. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY AS THE PROJECT DEVELOPS AND SITE CONDITIONS CHANGE. ALL EROSION AND SEDIMENT CONTROL STRUCTURES, SYSTEMS, DEVICES, ETC. SHALL MEET OR EXCEED THE GUIDELINES, SCENARIOS, AND PRACTICES OUTLINED IN THE NCDCQ. *EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL "LATEST EDITION."

A. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBING ACTIVITY TAKING PLACE.

C. SPECIAL REQUIREMENTS FOR SENSITIVE AREAS OF THE SITE.

1. INTERCEPT OFFSITE DRAINAGE, FILTER THROUGH RIPRAP FILTER BERMS OR TEMPORARY SEDIMENT

2. TRAPS, AND DISCHARGE THROUGH THE STORM SEWER SYSTEM.

3. RIP-RAP OUTLET PROTECTION SHALL BE INSTALLED AT ALL DOWNSTREAM OUTFALLS, EXCEPT THOSE IN ALDOT RIGHT-OF-WAYS.
- I. IMPLEMENTATION:

PLANNED CONSTRUCTION AND REQUIRED SPECIFIC SEDIMENT AND EROSION CONTROL MEASURES.

UTILITY REHABILITATION/INSTALLATION

UTILITY INSTALLATION PLAN: DISTURBED STORM SEWERS SHALL BE INSTALLED AND PUT INTO SERVICE AS EARLY AS POSSIBLE. THE FOLLOWING WILL APPLY TO CONSTRUCTION:

1. STORM SEWERS THAT ARE INSTALLED SHALL BE PUT INTO SERVICE IMMEDIATELY. THE INLETS/FLUMES OF ALL STORM SEWERS SHALL BE PROTECTED WITH SILT TRAPS THAT PREVENT SEDIMENT FROM ENTERING PIPE. THIS PROTECTION CAN BE SILT FENCES AND HAY BALES OR RIP-RAP FILTER BERMS AS APPLICABLE AND AS SHOWN ON THE PLANS.

2. RIP-RAP AS SHOWN ON THE PLANS AND AS REQUIRED ON THE SITE WILL BE INSTALLED AT PIPE OUTLETS TO PREVENT EROSION DUE TO VELOCITIES OF WATER IN THE PIPES. THE RIP-RAP SHALL BE EXTENDED DOWNSTREAM AS NEEDED TO PREVENT EROSION.

3. ADDITIONAL SILT FENCING SHALL BE INSTALLED AS NECESSARY TO PREVENT EROSION AND SILTATION RESULTING FROM STOCKPILED EXCAVATION MATERIAL FROM UTILITY INSTALLATION OPERATION.

4. WATTLES SHALL BE INSTALLED IN ALL NEWLY CONSTRUCTED DITCHES AND SWALES AS NECESSARY TO PREVENT EROSION AND SILTATION FROM WASHING DOWNSTREAM.
- E. RESTORATION

FINISH GRADING, CURB AND PAVEMENT INSTALLATION, AND LANDSCAPING: THIS IS THE WRAP-UP STAGE WHEN ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WILL BE PHASED OUT. THE FOLLOWING WILL APPLY TO THIS PHASE:

1. ALL FACILITIES FROM CONSTRUCTION WILL BE MAINTAINED AS APPROPRIATE AND REMOVED ONLY WHEN NO LONGER NEEDED OR REPLACED WITH PHASE APPROPRIATE BMP.

2. SILT TRAPS AROUND DRAINAGE INLETS/FLUMES WILL BE MAINTAINED, MODIFIED AS NECESSARY AND REMOVED WHEN NEED IS GONE.

3. ALL AREAS NOT RECEIVING PAVEMENT OR BUILDINGS SHALL HAVE 4" OF TOPSOIL, SPREAD OVER AREA AND GRASSED PER PLAN, OR HAVE LANDSCAPING, MULCHING AND OR SOD INSTALLED AS APPLICABLE.

4. CONTRACTOR MAY COVER SOME AREAS WITH 2 1/2" THICK GRADED AGGREGATE FOR EROSION CONTROL IN LIEU OF GRASSING.

5. MUST BE APPROVED BY THE ENGINEER

TERRACES, BERMS, SWALES SHALL BE CONSTRUCTED AT INTERMEDIATE LOCATIONS THROUGHOUT THE SITE AS NECESSARY TO CONTROL EROSION AND SEDIMENT TRANSPORT. THESE DIVERSION FACILITIES SHALL BE SUPPLEMENTED AS NECESSARY WITH SILT FENCES AND RIP-RAP FILTER BERMS TO FILTER ACCUMULATED SEDIMENT FROM RUNOFF PRIOR TO DISCHARGE FROM THE SITE.

6. SEDIMENT BASINS SHALL BE INSTALLED IF NECESSARY.

7. SLOPES (CUT AND FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION SHALL BE COVERED WITH 4" OF TOPSOIL AND GRASSED AND MULCHED AS SOON AS GRADING IS COMPLETED SO VEGETATION CAN PROTECT SLOPE.

8. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO RECEIVE PAVEMENT OR BUILDINGS SHOULD HAVE 4" OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AS SOON AS POSSIBLE IN CONSTRUCTION PROCESS. THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE EROSION AND SILT CONTROL PROCESS.

9. STORM SEWERS NEED TO BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS TO ENSURE A SUCCESSFUL PROGRAM. RUNOFF SHALL BE DIRECTED TO STORM SEWER SYSTEM AS SOON AS POSSIBLE.
- III. LANDSCAPING/SEEDING:

REFER TO THIS DRAWING (SEEDING NOTES) FOR ACTUAL REQUIREMENTS FOR THE INSTALLATION OF LIME, FERTILIZER, SEED AND MULCH. GRASSING OPERATIONS SHALL BE DONE THROUGHOUT CONSTRUCTION PROCESS AT THOSE TIMES WHEN PORTIONS OF THE SITE ARE FINISHED AND READY FOR PERMANENT GROUND COVER. THIS WILL REQUIRE MULTIPLE EFFORTS BY THE GRASSING SUBCONTRACTOR TO STABILIZE ALL IMPACTED AREAS OF THE SITE IN AN ORDERLY FASHION. NO AREA OF THE SITE THAT RECEIVED FINAL GRADE SHALL BE LEFT FOR MORE THAN FOURTEEN (14) DAYS WITHOUT THE APPLICATION OF SEED AND MULCH.
- IV. INSPECTION AND MAINTENANCE INSTRUCTIONS:

ALL EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED REGULARLY TO BE SURE THEY ARE EFFECTIVE IN THE EVENT OF RAINFALL. THEY SHALL BE INSPECTED ONCE A WEEK (MINIMUM) AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT. ANY DAMAGED OR NON- FUNCTIONAL FACILITY SHALL BE REPAIRED IMMEDIATELY. THE FOLLOWING WILL APPLY TO MAINTAINING EROSION AND SEDIMENT CONTROL FACILITIES.

1. SEDIMENT BASINS AND/OR DETENTION PONDS SHALL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT BUILDUP REACHES THE CLEANOUT POINT INDICATED ON THE DETAIL. SEDIMENT SHALL BE DISPOSED IN SUITABLE AREAS AND IN SUCH A MANNER THAT WILL NOT ERODE OR CAUSE SEDIMENTATION PROBLEMS. THE BASIN EMBANKMENT SHALL BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. EMERGENCY SPILLWAYS SHALL BE CHECKED REGULARLY TO ENSURE THAT THEIR LININGS ARE WELL ESTABLISHED AND EROSION RESISTANT.

2. SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT CLEANOUT. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN SUITABLE AREAS AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.

3. WATTLES WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF THE WATTLE IS CLOGGED OR DAMAGED, IT SHALL BE REMOVED AND CLEANED OR REPLACED.

4. SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.

5. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.

6. IF ANY FACILITY IS DAMAGED DURING MAINTENANCE, OR OTHERWISE, THE DAMAGED PORTION SHALL BE REMOVED AND REPLACED ACCORDING TO THE INDICATED DETAIL.

7. IF SILT HAS CLOGGED SEDIMENT CONTROL FACILITY AND IT IS NO LONGER EFFECTIVE IN FILTERING SILT, THE STRUCTURE SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE IN ACCORDANCE WITH APPLICABLE DETAIL.

8. CONSTRUCTION ENTRANCE SHALL HAVE ADDITIONAL STONE ADDED AS MUD COVERS STONE. DURING MUDDY TIMES, TIRES SHALL BE WASHED PRIOR TO GOING INTO THE STREET.

9. MAINTAINING EFFECTIVENESS: CONTRACTORS QCI SHALL INSPECT OVERALL PERFORMANCE OF EROSION AND SEDIMENT CONTROL FACILITIES AND AREAS DOWNSTREAM. IF SILT IS APPARENT DOWNSTREAM FROM STRUCTURES, SOME FAILURE HAS OCCURRED. IF SEDIMENT IS OBSERVED DOWNSTREAM, IMMEDIATELY NOTIFY THE ENGINEER. ENGINEER WILL INSPECT THE CONDITION AND AFTER INSPECTION, WILL DIRECT THE REMOVAL OF ACCUMULATED SEDIMENT DOWNSTREAM AND INSTALLATION OF ADDITIONAL STRUCTURAL MEASURES AS NECESSARY. CONTRACTOR SHALL IMPLEMENT RECOMMENDED SOLUTIONS TO PROBLEM AREAS AS RECOMMENDED.
- V. COMPLETION

PROJECT CLOSE OUT: THE FOLLOWING SHALL BE DONE AT THE END OF THE PROJECT.

1. INSPECT SITE TO BE SURE THAT GROUND COVER IS COMPLETE AND ADEQUATE. IN OTHER WORDS, ALL AREAS ARE EITHER PAVED OR HAVE GOOD GROUND COVER WITH NO EROSION APPARENT. GENERALLY GOOD GROUND COVERAGE OF VEGETATION IS DEFINED AS 85% VEGETATIVE COVER WITH NO AREAS OF EROSION APPARENT.

2. IF ABOVE INSPECTION IS MADE AND APPROVED, ALL STRUCTURAL FACILITIES SHALL BE REMOVED ALONG WITH ANY ACCUMULATED SILT. THE AREAS DISTURBED BY REMOVAL OF STRUCTURES SHALL BE FINE GRADED, GRASSED AND MULCHED.

3. IF INSPECTION IS MADE AND PROBLEMS EXIST, RESOLVE THE PROBLEM, AND MAKE SUBSEQUENT INSPECTION PRIOR TO REMOVAL.
- VI. MISCELLANEOUS ISSUES:

1. NO FUEL OR OIL WILL BE STORED ON SITE.

2. NO OILS OR GAS WILL BE DUMPED ON SITE.

3. LOCATION OF TRAILER AND PORT-A-JOHN WILL BE FIELD DETERMINED TO AVOID CONSTRUCTION ACTIVITIES. LOCATION WILL CHANGE DURING CONSTRUCTION AS APPROPRIATE.

4. DEWATERING OPERATIONS MAY BE REQUIRED ON THIS PROJECT. IF REQUIRED, PUMPED GROUND WATER SHALL BE ROUTED THROUGH SILT CONTROL FACILITY TO FILTER WATER PRIOR TO DISCHARGE.

5. PROJECT SITE SHALL BE KEPT CLEAR OF ALL HUMAN AND CONSTRUCTION DEBRIS. CONTRACTOR SHALL HAVE TRASH COLLECTED WEEKLY AND PLACED IN DUMPSTER TO BE HAULED OFF THE SITE.

6. ALL WATER SUPPLY WILL BE PROVIDED FROM PUBLIC WATER SUPPLY.

7. ALL HUMAN WASTE WILL BE IN PORT-A-JOHN OR PUBLIC SEWER SYSTEM TOILET AND DISPOSED OF BY A LICENSED VENDOR OR IN A PUBLIC SANITARY SEWER SYSTEM.

8. ANY SPILLED OIL, GAS, ETC., RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE CONTAINED AND CLEANED IMMEDIATELY AND CONTAMINATED SOILS SHALL BE DISPOSED OF IN AN APPROVED MANNER AT A LICENSED LANDEILL.

9. DUST SUPPRESSION OPERATIONS WILL BE DONE BY MEANS OF A WATER TRUCK SPRAYING WATER ON THE SURFACE OF THE SITE.
- VII. SEEDING NOTES:

A. SEEDING SCHEDULE PROVIDED BELOW APPLIES TO NON-WETLAND OR STREAMBANK AREAS. SEE PRE-CONSTRUCTION NOTICE FOR SEEDING SCHEDULES IN WETLAND AND STREAMBANK AREAS.

B. PRIOR TO TEMPORARY SEED APPLICATION, TREAT SOIL AS FOLLOWS:

1. THE CONTRACTOR SHALL BE REQUIRED TO HAVE SOIL TESTED AND FOLLOW RECOMMENDATIONS FOR AMENDING THE SOIL WITH ITEMS SUCH AS LIME, FERTILIZER, ETC. TESTING AND AMENDMENTS SHALL BE A SUBSIDIARY OBLIGATION OF THE APPLICABLE EROSION AND SEDIMENTATION CONTROL ITEM.

2. THOROUGHLY INCORPORATE THE ABOVE AMENDMENTS INTO THE FIRST TWO TO THREE INCHES OF SOIL. AFTER SEEDING, FIRM THE SEEDS INTO THE TOP 1/4" OF SOIL. GRADE AREAS TO BE SEEDD TO INSURE PROPER DRAINAGE WITH EVEN GRADES. MULCH IMMEDIATELY AFTER SEEDING WITH EITHER STRAW, HAY OR WOOD CELLULOSE FIBER. STRAW OR HAY SHALL BE APPLIED AT A RATE OF 100 LBS./1000 SF. HAY OR STRAW SHALL BE STABILIZED WITH AN ADHESIVE. ALL SLOPES WHICH 3:1 OR STEEPER SHALL BE HYDROSEEDD AT A MINIMUM. WATER AS REQUIRED TO ESTABLISH SEED. ALL AREAS THAT DO NOT SHOW 85% COVER SHALL BE RESEEDD UNTILL PERMANENT GRASS HAS BEEN ESTABLISHED WITH NO BARE AREAS OR WASHOUTS. AFTER GRASS HAS SHOWN GROWTH (APPROXIMATELY 40 DAYS) AND WHILE SOIL SURFACE IS MOIST, THE CONTRACTOR SHALL ADD ANY RECOMMENDED TOP DRESSING FROM SOIL TEST.

B. TEMPORARY SEEDING SHALL BE PERFORMED IF A DISTURBED AREA IS LEFT UNATTENDED FOR (13) OR MORE DAYS. APPLY SEED AS FOLLOWS:

ANNUAL RYE GRASS	50 LB./AC.
KENTUCKY 31 TALL FESCUE	30 LB./AC.

C. ALL DISTURBED AREAS SHALL RECEIVE PERMANENT SEEDING UNLESS OTHERWISE NOTED. PERMANENT SEEDING SHALL BE PERFORMED UPON COMPLETION OF FINAL GRADING AND TOPSOIL PLACEMENT. APPLY SEED AS FOLLOWS:

MARCH THROUGH AUGUST	
BERMUDA GRASS (HULLED)	20 LB./AC.
KENTUCKY 31 TALL FESCUE	30 LB./AC.
ANNUAL RYE GRASS	50 LB./AC.
SEPTEMBER THROUGH FEBRUARY	
BERMUDA GRASS (UNHULLED)	20 LB./AC.
KENTUCKY 31 TALL FESCUE	30 LB./AC.
ANNUAL RYE GRASS	50 LB./AC.

D. ALL TEMPORARY/PERMANENT SEEDING AND MULCHING SHALL BE PERFORMED USING HYDRO-SEEDING AND/OR MECHANICAL MULCH SPREADER METHODS.

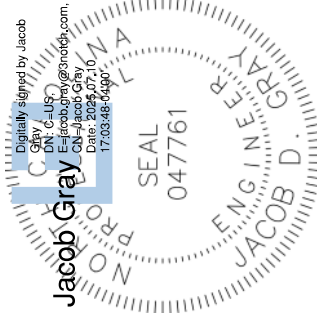
E. HYDRO-SEEDING AND/OR EROSION CONTROL BLANKETS ARE REQUIRED ON ALL SLOPES 3:1 AND STEEPER, OR AS SITE CONDITIONS DICTATE FOR THE PERMANENT ESTABLISHMENT OF GRASS.

F. ALL PERMANENT SEEDING AREAS SHALL RECEIVE 3" MIN. TOPSOIL LAYER.
- THREE NOTCH GROUP

122 LYMAN STREET
ASHESVILLE, NC 28801
P.O. BOX 2079 (36960)
PH: (828) 232-4700
NC FIRM C-4973

ADDITIONAL PROJECT NOTES

BOYS & GIRLS CLUB SEWER EXTENSION
TRANSYLVANIA COUNTY, NORTH CAROLINA
BREVARD, TRANSYLVANIA COUNTY, NORTH CAROLINA



THIS BAR IS ONE INCH ON THE ORIGINAL
0 INCH ON THIS DRAWING
ADJUST SCALES ACCORDINGLY

SCALE: _____
DATE: JULY 2025
REVISED _____
PROJECT NO: R023824001

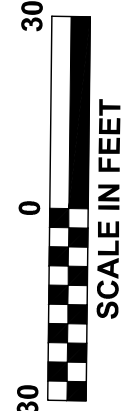
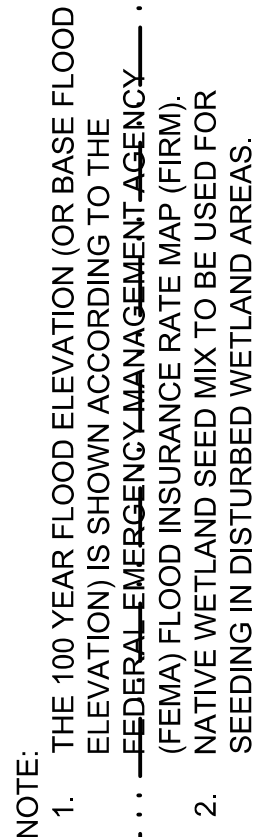
SHEET NO. C-102
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- C-101 NOTES & LEGEND.dwg

BOYS & GIRLS CLUB SEWER EXTENSION
TRANSPORTATION
BREVARD, TRANSYLVANIA COUNTY, NORTH CAROLINA



SCALE IN FEET

1. EXCAVATED MATERIALS SHALL BE STORED OUTSIDE OF WETLAND AREAS BEHIND A DOUBLE ROW OF SILT FENCE.
2. LIMITS OF DISTURBANCE, INCLUDING CONSTRUCTION ENTRANCES/EXITS, SHALL BE CONFINED TO COUNTY, CITY, AND BOYS & GIRLS CLUB PROPERTY. NO WORK SHALL TAKE PLACE ON OTHER PRIVATE PARCELS
3. WETLANDS OUTSIDE OF THE BOUNDARIES DEPICTED ON THE PLANS SHALL NOT BE DISTURBED



NOTE: 1. THE 100 YEAR FLOOD ELEVATION (OR BASE FLOOD ELEVATION) IS SHOWN ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM).

EX. GRADE (PROPOSED CONSTRUCTION
- INCLUDES GRADING (FILL) IN THIS AREA - TO
BE COMPLETED AFTER SEWER INSTALLATION)

