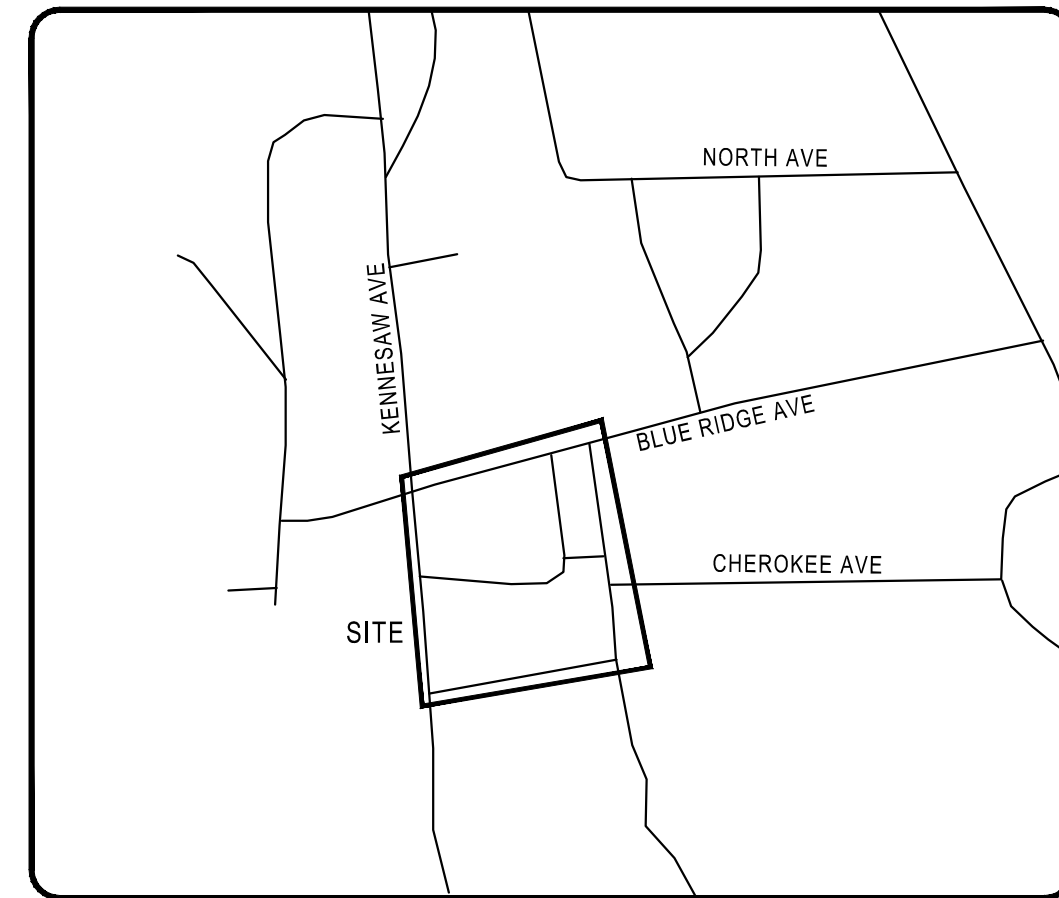
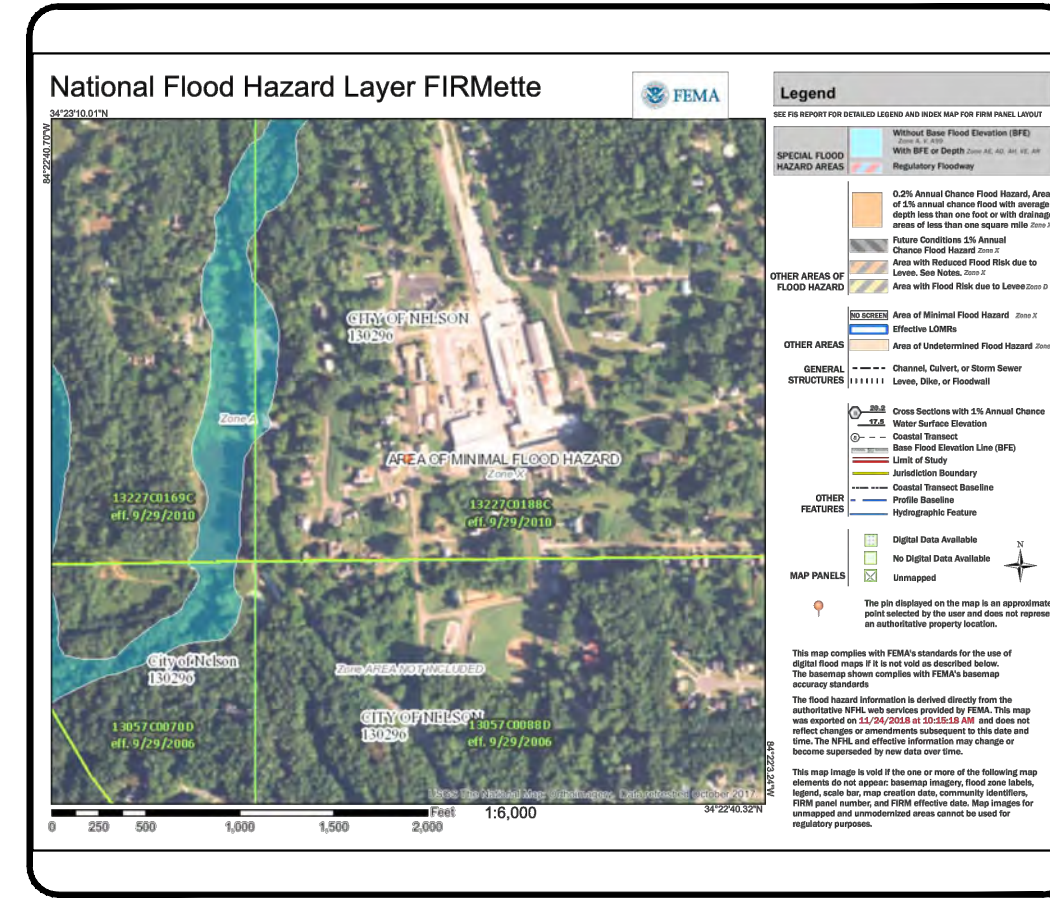


CONSTRUCTION DOCUMENTS FOR:
CITY OF NELSON
DRAINAGE IMPROVEMENTS
 LAND LOT 223 DISTRICT 4
 CITY OF NELSON, PICKENS COUNTY, GEORGIA



Location Map
N.T.S.



FEMA Map
N.T.S.

THIS SITE IS NOT LOCATED WITHIN A ZONE [A, AE, SHADED ZONE X] AS DEFINED BY FIRM PANEL NUMBER 13227C0188 C DATED SEPTEMBER 29, 2010, FOR PICKENS COUNTY AND INCORPORATED AREAS.



DOT STANDARD NOTES:

- ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA", "STATE HIGHWAY DEPARTMENT", "GEORGIA STATE HIGHWAY DEPARTMENT", "HIGHWAY DEPARTMENT", OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE GEORGIA DEPARTMENT OF TRANSPORTATION.
- PROJECT TO BE CONSTRUCTED AS PER THE GEORGIA DOT CONSTRUCTION STANDARDS AND SPECIFICATIONS, CURRENT EDITION AS MODIFIED BY CONTRACT DOCUMENTS.
- THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS, HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED AND DO NOT BIND THE GEORGIA DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, OR THE CITY OF NELSON IN ANY WAY.

CONSTRUCTION NARRATIVE:

THE PROPOSED PLANS CALL FOR THE CONSTRUCTION OF CURB SECTIONS ALONG THE HILLSIDE STREET. THE PLANS ALSO CALLS FOR THE CONSTRUCTION OF A NEW DRAINAGE SYSTEM FOR CITY OF NELSON RIGHT OF WAY.

OWNER:

CITY OF NELSON
 1985 KENNESAW AVE
 NELSON, GA 30151
 770-735-2211

LEAD ENGINEER:

MAXIS ENGINEERING
 501 HICKORY RIDGE TRAIL
 SUITE 110
 WOODSTOCK, GEORGIA 30188
 770-694-6178

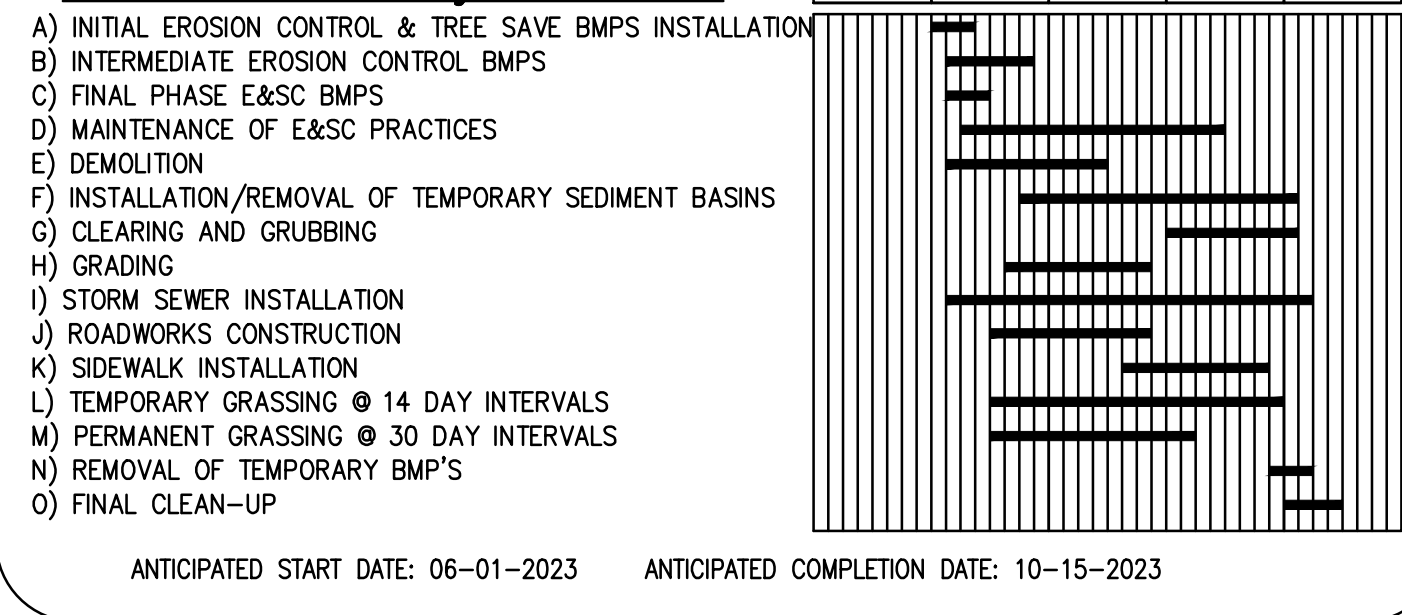
CIVIL ENGINEER:

CRESCENT VIEW ENGINEERING
 211 FRASIER STREET, NE
 MARIETTA, GEORGIA 30060
 678-324-8410

UTILITY CONTACTS:

TELEPHONE:	TDS	770-735-2000
ELECTRIC:	AMICALOLA EMC	706-253-5200
WATER & SEWER:	CHEROKEE COUNTY	770-479-1813
GAS:	ATLANTA GAS LIGHT COMPANY	877-427-4321

Construction Activity Schedule



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

CERTIFIED BY: DATE: 6-5-2023

Legend	Sheet #
COVER SHEET	CV
SITE PLAN	C-1
OVERALL DRAINAGE PLAN	C-2
DRAINAGE PLAN + PROFILES	C-21
DRAINAGE PLAN + PROFILES	C-22
ES&PC - NOTES	C-3
ES&PC - DETAILS	C-31
ES&PC - INITIAL	C-32
ES&PC - INTERMEDIATE	C-33
ES&PC - FINAL	C-34
CONSTRUCTION DETAILS	C-4
CONSTRUCTION DETAILS	C-4.1

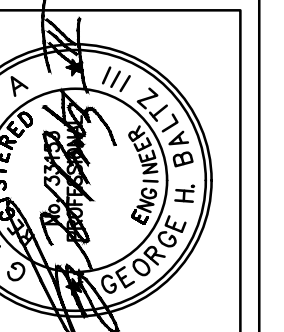
24 HOUR EMERGENCY CONTACT: SYLVIA GREEN 678-215-5137

Prepared By:
CRESCENT VIEW
ENGINEERING, LLC:
 211 Frasier Street SE
 Marietta, GA 30060
 678-324-8410
 www.crescentvieweng.com

Prepared For:
City of Nelson
 1985 Kennesaw Avenue
 Pickens County, Georgia, 30151
 770-735-2211

COVER PAGE

DATE	SCALE	DRAWN	CHECKED	REVISIONS
06-05-2023	AS SHOWN	PG	GHB	



Construction Plans For:
CITY OF NELSON
DRAINAGE IMPROVEMENTS
 Land Lot 223 Pickens County & Land Lot 234 Cherokee County
 Pickens County & Cherokee County, Georgia

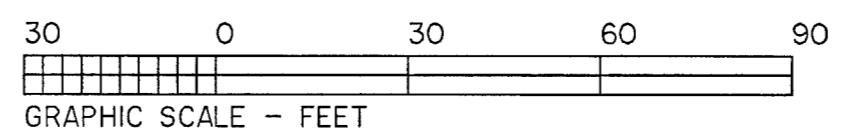
CVE PI # 23-073

Sheet No.
CV



GENERAL NOTES:
 1.) ALL MATTERS OF TITLE ARE EXCEPTED.
 2.) ZONING INFORMATION, ADDRESS, PARCEL NUMBERS & ADJOINING OWNERS FROM qPublic.net
 3.) STATE PLANE COORDINATES OBTAINED USING CARLSON BRAG ROVER AND 4575 SOLUTIONS, INC. NETWORK
 4.) ALL MEASUREMENTS SHOWN ARE GROUND MEASURED.

LEGEND
 1. RP - IRON PIN PLACED (1" x 2" x 8")
 2. PF - IRON PIN FOUND
 3. CT - CONCRETE TOP PIN
 4. OT - OPEN TOP PIN
 5. R - REINFORCING BAR
 6. LLL - LAND LOT LINE
 7. R/W - RIGHT OF WAY
 8. P/L - PROPERTY LINE
 9. C/L - CENTER LINE
 10. B/L - BUILDING LINE
 11. F/L - FENCE LINE
 12. P - POWER LINE
 13. H - HYDROGRAPH
 14. CMP - CONC. MON. FOUND
 15. M - MARBLE
 16. CO - CLEANOUT
 17. WM - WATER METER
 18. XFR - TRANSFORMER
 19. MM - MARBLE MOVEMENT



TOPO MAP OF:
 HILLSIDE STREET
 FOR:

CITY OF NELSON

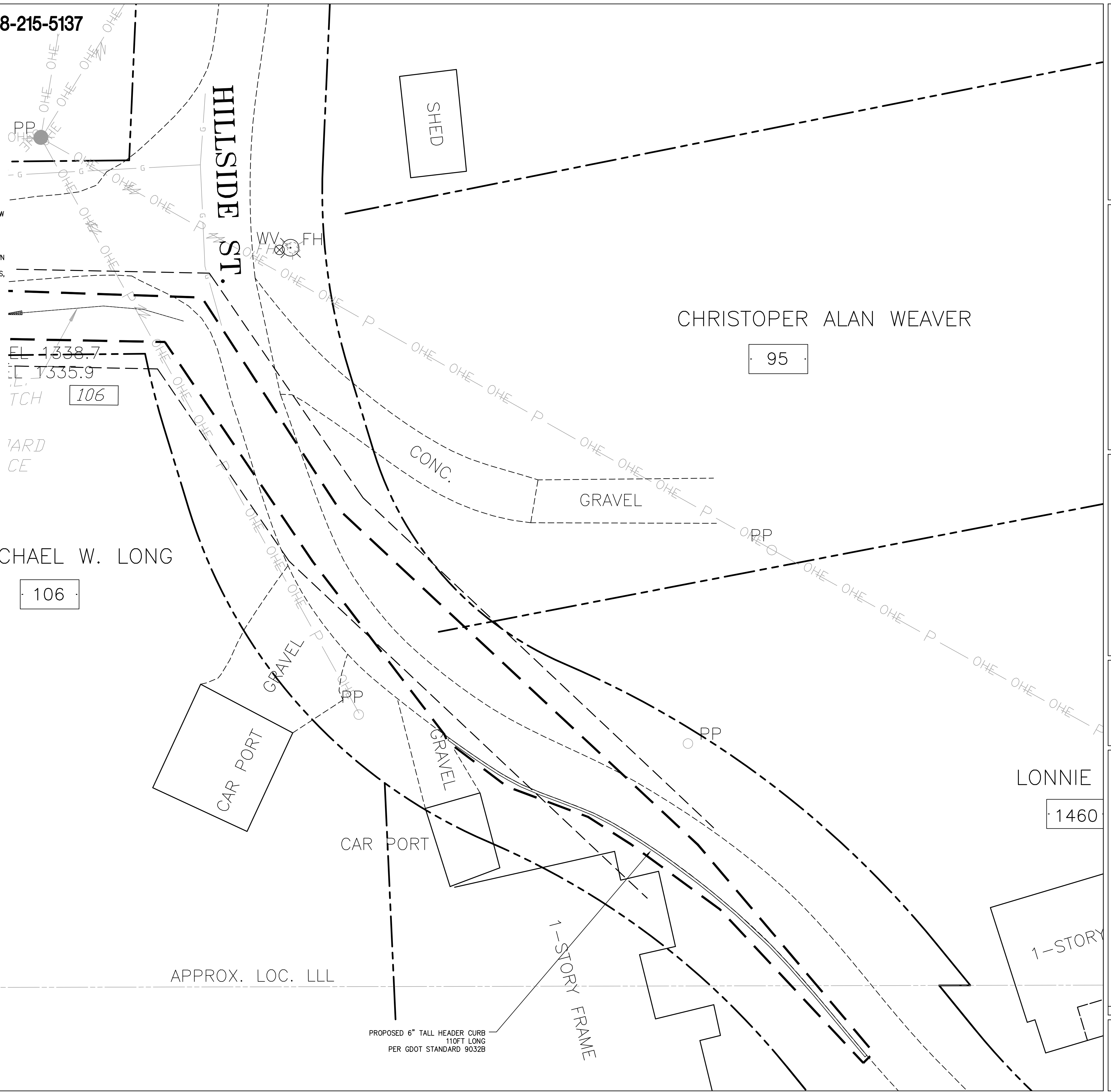
PART OF: L.L. 223, 4th DIST., 2nd SECT., PICKENS COUNTY GEORGIA
 AND
 PART OF: L.L. 234, 4th DIST., 2nd SECT., CHEROKEE COUNTY, GEORGIA
 CITY OF NELSON
 SCALE: 1" = 30'
 FIELD WORK: DEC. 15, 2022
 PREPARED: DEC. 28, 2022

CHEROKEE SURVEYING CO.
 P.O. BOX 389
 CANTON, GEORGIA 30169
 2623 MARIETTA HIGHWAY
 CANTON, GEORGIA 30114
 TEL: 770 478-9940
 email: cherokeesurveying@windstream.com

24 HOUR EMERGENCY CONTACT: SYLVIA GREEN 678-215-5137

SITE NOTES:

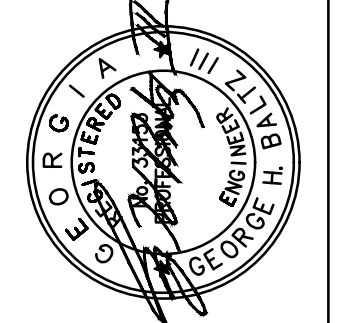
- 1 TOTAL DISTURBED AREA: 0.97 ACRES
- 2 SITE ADDRESS: CITY OF NELSON, GEORGIA
- 3 SURVEY INFORMATION TAKEN FROM SURVEY PERFORMED BY CHEROKEE SURVEYING CO, DATED DEC 28, 2022
- 4 THIS SITE IS NOT LOCATED WITHIN A ZONE [A, AE, SHADED ZONE X] AS DEFINED BY FIRM PANEL NUMBER 13227C0188 C DATED SEPTEMBER 29, 2010, FOR PICKENS COUNTY AND INCORPORATED AREAS.
- 5 THERE ARE WATERS OF THE STATE OF GEORGIA WITHIN 200 FEET OF THE SITE. ALL APPROPRIATE STATE WATER BUFFERS ARE SHOWN ON THE SITE PLANS. THERE ARE NO PROPOSED IMPACTS TO ANY STATE WATER BUFFERS.
- 6 TO THE BEST OF OUR KNOWLEDGE, NO APPARENT WETLANDS EXIST WITHIN 200 FT OF THE PROJECT SITE.
- 7 TO THE BEST OF OUR KNOWLEDGE, THERE NO CEMETERIES, ARCHITECTURAL, OR ARCHEOLOGICAL LANDMARKS EXIST ON SITE. IN THE EVENT THAT THESE LANDMARKS ARE DISCOVERED DURING CONSTRUCTION, THE ENGINEER MUST BE CONTACTED IMMEDIATELY FOR REVIEW AND AMENDING THE CONSTRUCTION PLANS
- 8 THE EXISTING UTILITIES SHOWN ON THE PLANS ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS, SIZES, MATERIALS, OR DEPTH FOR THE UTILITIES SHOWN OR THE UTILITIES WHICH MAY EXIST ON THE SITE BUT ARE NOT SHOWN. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD. THE CONTRACTOR SHALL ALSO HAVE THE RESPONSIBILITY BEFORE STARTING ANY WORK TO MAKE SUCH EXPLORATIONS AND PROBES NECESSARY TO ASCERTAIN ANY SEWER LINES, WATER SUPPLY LINES, GAS LINES, ELECTRICAL LINES, CABLE LINES, TELEPHONE LINES, OR OTHER UTILITY LINE.
- 9 UNDERGROUND UTILITIES SERVING OR CROSSING THE PREMISES MAY EXIST THAT ARE NOT SHOWN. CRESCENT VIEW ENGINEERING IS UNABLE TO CERTIFY TO THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. ALL UNDERGROUND UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION ACTIVITY BY THE UTILITY PROTECTION CENTER AT 1-800-282-7411 FOR RIGHT OF WAY AREA AND BY A PRIVATE UTILITY LOCATOR FOR UTILITIES NOT LOCATED WITHIN THE RIGHT OF WAY.
- 10 CONTRACTOR SHALL CONTACT THE UTILITY LOCATOR AS REQUIRED BY GEORGIA LAW AND HAVE ALL UTILITIES MARKED PRIOR TO ANY CONSTRUCTION ACTIVITY. CONTRACTOR WILL HAVE PRIVATE UTILITY LOCATOR LOCATE ALL UTILITIES WITHIN THE CONSTRUCTION LIMITS NOT COVERED BY THE UTILITY PROTECTION CENTER.
- 11 THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR ERRORS THAT HE MAY DISCOVER IN THESE PLANS.
- 12 CONTRACTOR TO PROVIDE ALL NECESSARY BARRICADES, GUARDS, LIGHTS, AND OTHER INSTALLATIONS REQUIRED TO PROTECT PERSONS AND PROPERTY DURING THE ENTIRE CONSTRUCTION PROCESS.
- 13 ALL CONSTRUCTION MUST CONFORM TO THE APPROPRIATE CITY OF NELSON, CHEROKEE COUNTY, AND GEORGIA DOT STANDARDS.
- 14 CITY OF NELSON IS RESPONSIBLE FOR EXPANDING RIGHT-OF-WAY AND OBTAINING TEMPORARY CONSTRUCTION EASEMENTS.



Prepared By:
CRESCENT VIEW ENGINEERING, LLC:
 211 Fraser Street SE
 Marietta, GA 30060
 678-324-9410
 www.crescentvieweng.com

Prepared For:
City of Nelson
 1985 Kennesaw Avenue
 Pickens County, Georgia, 30151
 770-735-2211

PAVING PLAN		REVISIONS	
DATE	06-05-2023	SCALE	AS SHOWN
DRAWN	PG	CHECKED	GHB



Construction Plans For:
CITY OF NELSON
DRAINAGE IMPROVEMENTS
 Land Lot 223 Pickens County & Land Lot 234 Cherokee County
 Pickens County & Cherokee County, Georgia

CVE PI # 23-073

Sheet No.
C-1

GRADING NOTES:

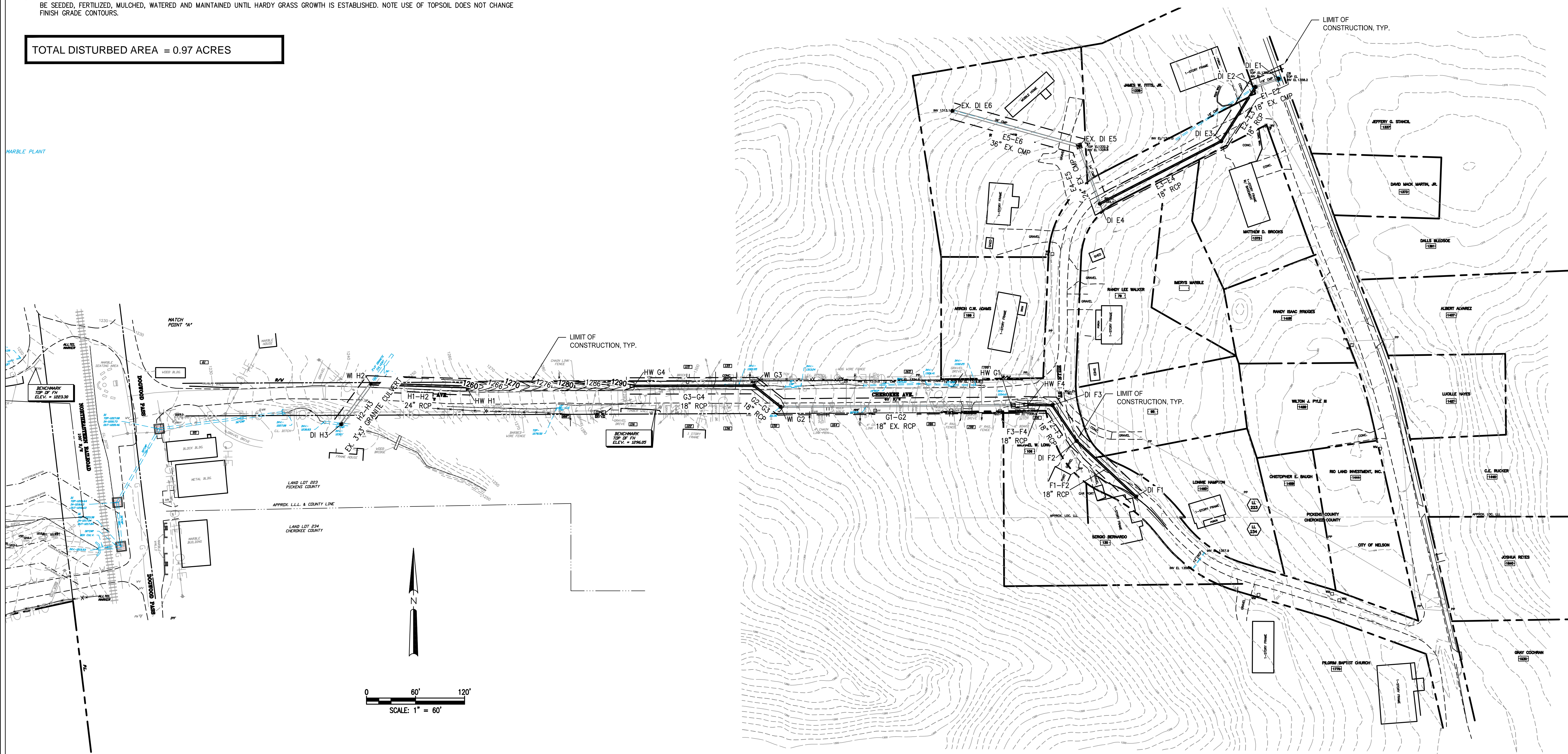
- PHASE 1 EROSION CONTROL DEVICES MUST BE INSTALLED PRIOR TO ANY CONSTRUCTION.
 - SEDIMENT BASINS MUST BE CONSTRUCTED PRIOR TO ANY OTHER WORK. DETENTION & SEDIMENT BASINS MUST BE CLEANED OF ALL SILT AND SEDIMENT UPON COMPLETION AND ESTABLISHMENT OF PERMANENT VEGETATION.
 - AFTER SITE CLEARING AND PREPARATION, CONTRACTOR SHALL HAVE A GEOTECHNICAL ENGINEER EVALUATE THE EXPOSED SUBGRADE. THIS EVALUATION SHOULD INCLUDE PROOF ROLLING OF SUBGRADE SOILS TO VERIFY THAT THE SUBGRADE IS OF SUFFICIENT COMPACTION AND MATERIAL FOR PLACEMENT OF FILL TO BEGIN. IF REMEDIAL WORK IS REQUIRED, CONTRACTOR MUST OBTAIN APPROVAL FROM THE OWNER BEFORE PROCEEDING.
 - CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATION WITH A GEOTECHNICAL ENGINEER. THIS ENGINEER SHALL BE RESPONSIBLE FOR MONITORING AND SUPERVISING ALL EXCAVATION AND PLACEMENT OF FILL MATERIALS FOR THE SITE. ALL FILL MUST BE TESTED FOR COMPACTION AND QUALITY DURING THE GRADING OPERATION. PLACE FILL MATERIALS ON CONTINUOUS LAYERS AND COMPACT IN ACCORDANCE WITH ASTM D698. FILL MATERIAL MUST BE CLEAN INORGANIC NATURAL SOIL. FILLS OF OVER 5' OR LOCATED IN NEW BUILDING OR PARKING AREAS MUST BE SUPERVISED BY A GEOTECHNICAL ENGINEER.
- COMPACTION REQUIREMENTS USING STD PROCTOR COMPACTION TEST ASTM D698 (%=MAX. DENSITY AT OPTIMUM MOISTURE CONTENT)
- UNPAVED AREAS: TOP 6 INCHES OF SUBGRADE AND SUBSEQUENT LIFTS / 90% SPT
 PAVED AREAS: 95% SPT EXCEPT FOR TOP ONE FOOT WHICH WILL BE COMPACTED 98% OF SOIL'S MAX. DRY DENSITY EXTERIOR RAMPS/STEPS: 95% SPT
 BUILDING SLABS: 98% OF SOIL'S MAX. DRY DENSITY (NOT ANTICIPATED)
 FILL WALLS: 95% SPT (IF REQUIRED)
- COMPACTION ZONE FOR THESE AREAS SHALL INCLUDE A BEARING PLANE OF 1:1 FOR FILL AREAS WHICH SHALL EXTEND TO APPROVED SUBGRADE. COMPACTION REQUIREMENTS UNDER CURBING IS CONSIDERED UNDER PAVED AREAS REQUIREMENTS.
- EXCAVATION AND TRENCHES MUST BE CUT SUFFICIENTLY WIDE TO ENABLE INSTALLATION AND ALLOW INSPECTION. ALL CONSTRUCTION AND SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES MEETING APPLICABLE CITY, STATE AND FEDERAL CONSTRUCTION SAFETY STANDARDS.
 - DISCOVERY OF UNSUITABLE SOILS OR ROCK MUST BE IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER. ALL EARTHWORK MUST NOT PROCEED AT THAT POINT UNTIL OWNER RELEASES THE CONTRACTOR TO PROCEED.
 - MAXIMUM GRADED SLOPE ALLOWED 2H: 1V
 - CONTRACTOR MUST HAVE GEOTECHNICAL ENGINEER OBSERVE AND APPROVE THE PROOF ROLLING OF ADDITIONAL PARKING AND DRIVE AREAS BEFORE AGGREGATE BASE COURSE IS APPLIED AND ALSO BEFORE THE ASPHALT OR CONCRETE IS APPLIED.
 - PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.
 - ALL SLOPES AND AREAS TO BE LANDSCAPED OR GRASSED SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED. NOTE USE OF TOPSOIL DOES NOT CHANGE FINISH GRADE CONTOURS.

GRADING NOTES:

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF UTILITIES AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS PROVIDED TO THE ENGINEER. INFORMATION SHOWN IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- CONTRACTOR SHALL FOLLOW ALL APPLICABLE SAFETY AND CONSTRUCTION PROCEDURES, ORDINANCES, CODES, AND STANDARDS.
- CONTRACTOR SHALL OBSERVE, PROTECT, AND PRESERVE ALL AREAS SHOWN TO BE PROTECTED SUCH AS TREE PROTECTED AREAS, UNDISTURBED BUFFERS, WETLANDS, STREAMS, STREAM BUFFERS, CEMETERIES, STRUCTURES TO REMAIN, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS, DAMAGES, FINES, AND PENALTIES ASSOCIATED WITH FAILING TO PROTECT PROTECTED AREAS.
- UNDERPIN ANY ADJACENT WALL OR STRUCTURES WHICH MAY BE DAMAGED BY EXCAVATION WORK. COORDINATE UNDERPINNING WITH PROJECT STRUCTURAL ENGINEER.
- CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION DEVICES FOR OFFSITE DRAINAGE, ONSITE DRAINAGE, EXISTING STORM PIPING AND ROOF DRAINAGE AS NECESSARY TO CONTROL STORM WATER RUNOFF DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EARTHWORK AND GRADING OPERATIONS FROM GRADING, SEDIMENTATION, OR DAMAGE DURING CONSTRUCTION. REPAIR OR REPLACEMENT OF EARTHWORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST TO THE OWNER. REMOVING AND CLEANING UP SEDIMENT ACCUMULATIONS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
- AT THE END OF EACH DAY, AREAS FILLED THAT DAY MUST BE SEALED COMPLETELY BY COVERAGES BY ROLLING WITH A LOADED EARTH MOVING SCRAPER, DUMP TRUCK OR LARGE RUBBER TIED ROLLER.
- PROOF ROLL COMPACTED FILL SURFACES UNDER SLABS-ON-GRADE, PAVERS, AND PAVING IMMEDIATELY BEFORE THESE STRUCTURAL SURFACES ARE PLACED. THE SOILS ENGINEER SHALL WITNESS AND APPROVE ALL SUBGRADES BEFORE STRUCTURAL SURFACES ARE PLACED.
- CONTRACTOR SHALL PROVIDE ALL EXCAVATING, FILLING, BACKFILLING, IMPORTING, EXPORTING, AND GRADING REQUIRED TO BRING ENTIRE PROJECT TO THE FINAL GRADES AND ELEVATIONS SHOWN IN THE DESIGN DOCUMENTS.
- THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA STANDARD "PIPE CULVERTS" NUMBER 10300, LATEST EDITION SHALL BE USED IN DETERMINING THE CLASS OF REINFORCED CONCRETE PIPE OR GAUGE OF CORRUGATED STEEL PIPE OR TYPE 2 CORRUGATED ALUMINUM PIPE UNDER FILL AND THE METHOD OF BACKFILLING.
- FIELD JOINTS FOR CORRUGATED PIPE SHALL BE MADE WITH BANDS OF THE SAME BASE METAL AND COATING AS THE CORRUGATED PIPE. BANDS SHALL BE OF THE HUGGER TYPE, DESIGNED TO FULLY ENGAGE AT LEAST ONE ANNULAR CORRUGATION AT THE END OF EACH CORRUGATED PIPE AROUND ITS ENTIRE CIRCUMFERENCE. MINIMUM BAND WIDTH SHALL EQUAL THE CENTERLINE LENGTH OF FOUR (4) ANNULAR CORRUGATIONS. BANDS SHALL CONFORM TO CURRENT ASTM/ AASHTO INDUSTRY STANDARDS AS TO SECURING BOLTS, THEIR NUMBER AND PLACEMENT.
- CONCRETE PIPE SECTIONS MAY BE JOINED WITH BITUMINOUS PLASTIC CEMENT JOINTS, RUBBER-TYPE GASKET JOINTS, O-RING GASKET JOINTS OR PRE-FORMED PLASTIC GASKET JOINTS. IN BITUMINOUS PLASTIC CEMENT JOINTS, THE ANNULAR SPACE SHALL BE FILLED WITH JOINT MATERIAL, AND THE INSIDE OF EACH JOINT WIPED SMOOTH. RUBBER-TYPE, O-RING, AND PRE-FORMED PLASTIC GASKET JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

24 HOUR EMERGENCY CONTACT: SYLVIA GREEN 678-215-5137

TOTAL DISTURBED AREA = 0.97 ACRES



Prepared By:
**CRESCENT VIEW
 ENGINEERING, LLC.**
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OVERALL DRAINAGE PLAN

DATE	REVISIONS
06-05-2023	AS SHOWN
PG	GHB

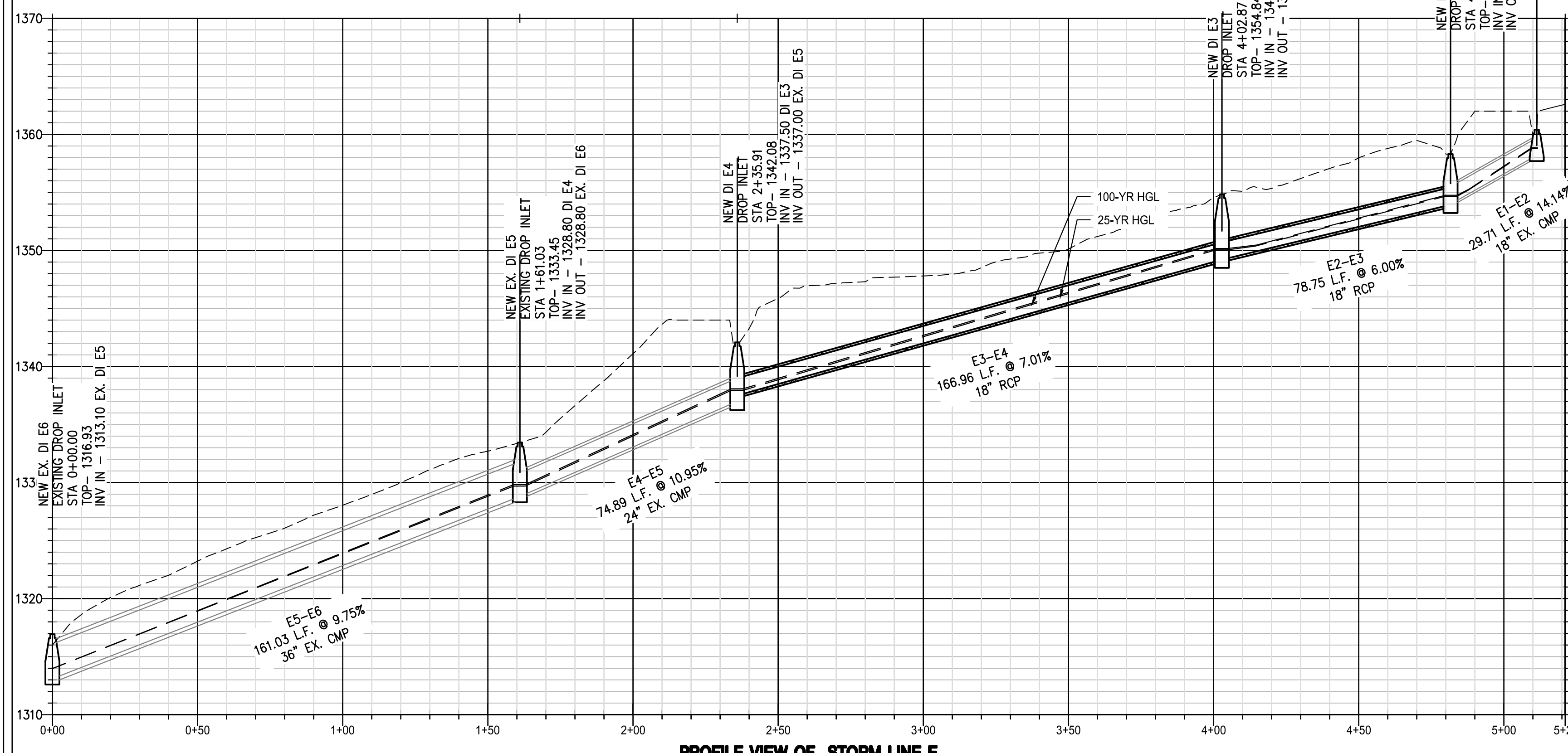


Construction Plans For:
**CITY OF NELSON
 DRAINAGE IMPROVEMENTS**
 Land Lot 223 Pickens County & Land Lot 234 Cherokee County
 Pickens County & Cherokee County, Georgia

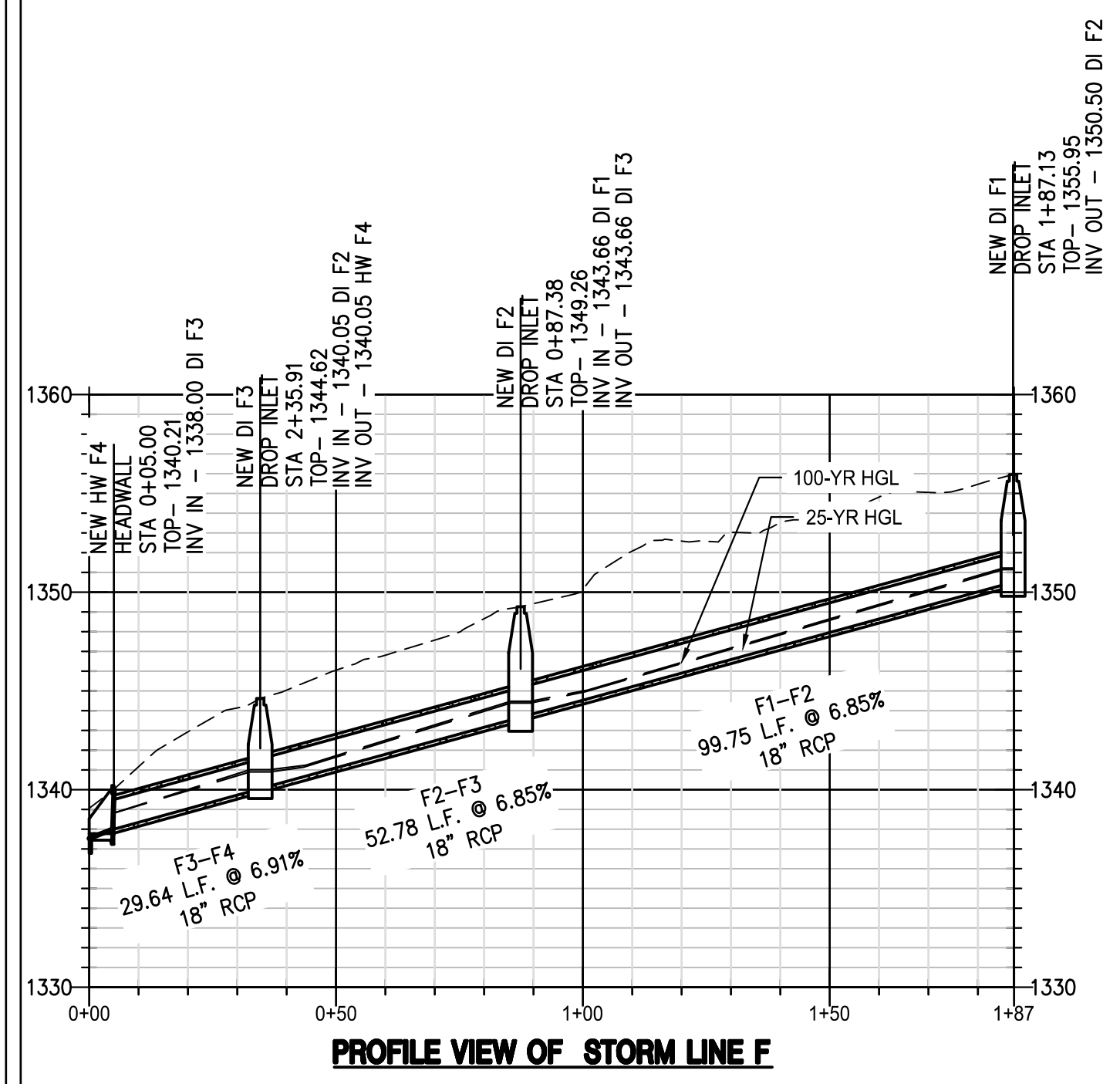
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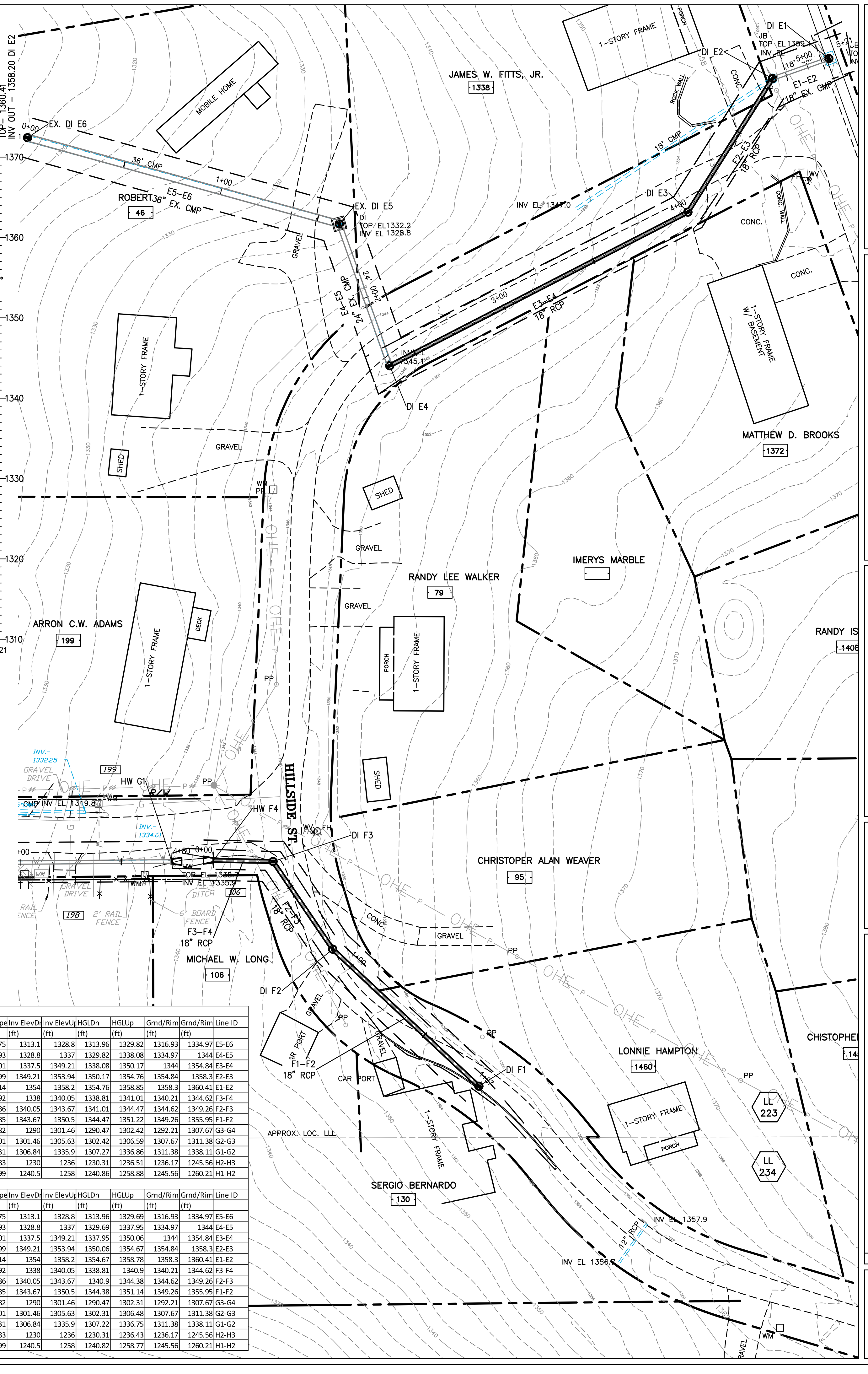
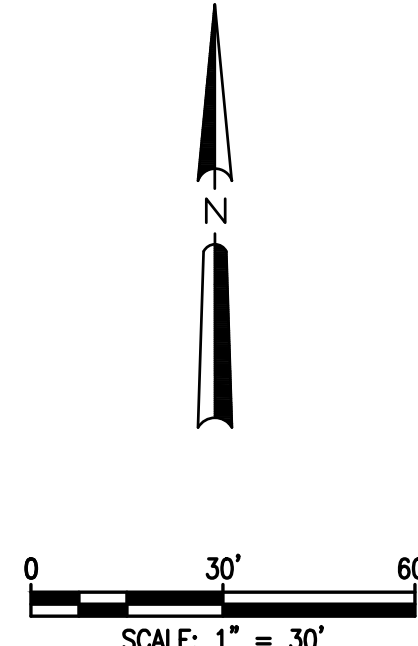
PROFILE VIEW OF STORM LINE E



PROFILE VIEW OF STORM LINE F

25 YR PIPE CHART																								
Line	ToLine	LineLengt (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCo	IncrC x A	TotalC x A	InletTime (min)	TimeCond (min)	Rnfallnt (in/hr)	TotalRun (cfs)	AdnFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevD (ft)	Inv ElevU (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/Rim (ft)	Grnd/Rim (ft)	Line ID
1	Outfall	161	0.33	2.47	0.4	0.13	0.99	5	7	10.4	10.3	0	10.3	208.27	5.52	36	9.75	1313.1	1328.8	1313.96	1329.82	1316.93	1334.97	E5-E6
2	1	75	0.77	2.14	0.4	0.31	0.86	5	6.6	10.7	9.14	0	9.14	74.79	5.5	24	10.93	1328.8	1337	1329.82	1338.08	1334.97	1344	E4-E5
3	2	167	0.39	1.37	0.4	0.16	0.55	5	5.8	11.2	6.13	0	6.13	27.81	7.46	18	7.01	1337.5	1349.21	1338.08	1350.17	1344	1354.84	E3-E4
4	3	79	0.36	0.98	0.4	0.14	0.39	5	5.3	11.6	4.53	0	4.53	25.7	4.21	18	5.99	1349.21	1353.94	1350.17	1354.76	1354.84	1358.3	E2-E3
5	4	29.706	0.62	0.62	0.4	0.25	0.25	5	5	11.8	2.92	0	2.92	39.49	3.63	18	14.14	1354	1358.2	1354.76	1358.85	1358.3	1360.41	E1-E2
6	Outfall	29.642	0.42	1.4	0.4	0.17	0.56	5	6.2	10.9	6.13	0	6.13	27.62	5.73	18	6.92	1338	1340.05	1338.81	1341.01	1340.21	1344.62	F3-F4
7	6	52.781	0.23	0.98	0.4	0.09	0.39	5	5.8	11.2	4.38	0	4.38	27.5	4.12	18	6.86	1340.05	1343.67	1341.01	1344.47	1344.62	1349.26	F2-F3
8	7	99.75	0.75	0.75	0.4	0.3	0.3	5	5	11.8	3.53	0	3.53	27.48	3.96	18	6.85	1343.67	1350.5	1344.47	1351.22	1349.26	1355.95	F1-F2
9	Outfall	146.628	0	0	0.4	0	0	5	6.6	0	0	0	6.13	29.36	9.05	18	7.82	1290	1301.46	1290.47	1302.42	1292.21	1307.67	G3-G4
10	9	41.662	0	0	0.4	0	0	5	6.4	0	0	0	6.13	33.22	5.16	18	10.01	1301.46	1305.63	1302.42	1306.59	1307.67	1311.38	G2-G3
11	10	281.872	0	0	0.4	0	0	5	5	0	0	0	6.13	33.72	9.82	18	10.31	1306.84	1335.9	1307.27	1336.86	1311.38	1338.11	G1-G2
12	Outfall	61.064	0	0	0.4	0	0	5	6	0	0	0	6.13	266.18	5.31	36 X 36	9.83	1230	1236	1230.31	1236.51	1236.17	1245.56	H2-H3
13	12	116.77	0	0	0.4	0	0	5	5	0	0	0	6.13	87.56	10.33	24	14.99	1240.5	1258	1240.86	1258.88	1245.56	1260.21	H1-H2

100 YR PIPE CHART																								
Line	ToLine	LineLengt (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCo	IncrC x A	TotalC x A	InletTime (min)	TimeCond (min)	Rnfallnt (in/hr)	TotalRun (cfs)	AdnFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevD (ft)	Inv ElevU (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/Rim (ft)	Grnd/Rim (ft)	Line ID
1	Outfall	161	0.33	2.47	0.4	0.13	0.99	5	7.5	8.1	8.04	0	8.04	208.27	4.68	36	9.75	1313.1	1328.8	1313.96	1329.69	1316.93	1334.97	E5-E6
2	1	75	0.77	2.14	0.4	0.31	0.86	5	7	8.4	7.17	0	7.17	74.79	5.08	24	10.93	1328.8	1337	1329.69	1337.95	1334.97	1344	E4-E5
3	2	167	0.39	1.37	0.4	0.16	0.55	5	6	8.9	4.86	0	4.86	27.81	7.81	18	7.01	1337.5	1349.21	1337.95	1350.06	1344	1354.84	E3-E4
4	3	79	0.36	0.98	0.4	0.14	0.39	5	5.4	9.2	3.62	0	3.62	25.7	3.89	18	5.99	1349.21	1353.94	1350.06	1354.67	1354.84	1358.3	E2-E3
5	4	29.706	0.62	0.62	0.4	0.25	0.25	5	5	9.5	2.35	0	2.35	39.49	3.41	18	14.14	1354	1358.2	1354.67	1358.78	1358.3	1360.41	E1-E2
6	Outfall	29.642	0.42	1.4	0.4	0.17	0.56	5	6.5	8.6	4.84	0	4.84	27.62	4.84	18	6.92	1338	1340.05	1338.81	1340.9	1340.21	1344.62	F3-F4
7	6	52.781	0.23	0.98	0.4	0.09	0.39	5	6	8.9	3.47	0	3.47	27.5	3.8	18	6.86	1340.05	1343.67	1340.9	1344.38	1344.62	1349.26	F2-F3
8	7	99.75	0.75	0.75	0.4	0.3	0.3	5	5	9.5	2.84	0	2.84	27.48	3.7	18	6.85	1343.67	1350.5	1344.38	1351.14	1349.26	1355.95	F1-F2
9	Outfall	146.628	0	0	0.4	0	0	5	7	0	0	0	4.84	29.36	7.47	18	7.82	1290	1301.46	1290.47	1302.31	1292.21	1307.67	G3-G4
10	9	41.662	0	0	0.4	0	0	5	6.7	0	0	0	4.84	33.22	4.72	18	10.01	1301.46	1305.63	1302.31	1306.48	1307.67	1311.38	G2-G3
11	10	281.872	0	0	0.4	0	0	5	5	0	0	0	4.84	33.72	9.13	18	10.31	1306.84	1335.9	1307.22	1336.75	1311.38	1338.11	G1-G2
12	Outfall	61.064	0	0	0.4	0	0	5	6.3	0	0	0	4.84	266.18	4.47	36 X 36	9.83	1230	1236	1230.31	1236.43	1236.17	1245.56	H2-H3
13	12	116.77	0	0	0.4	0	0	5	5	0	0	0	4.84	87.56	9.63	24	14.99	1240.5	1258	1240.82	1258.77	1245.56	1260.21	H1-H2

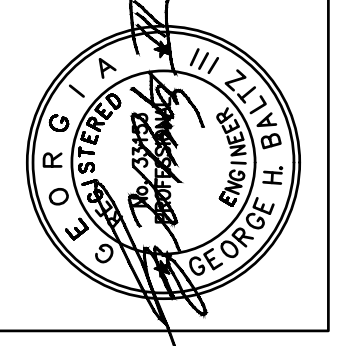


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1985 Kennesaw Avenue
Pickens County, Georgia, 30151
770-735-2211

DRAINAGE PLAN + PROFILES

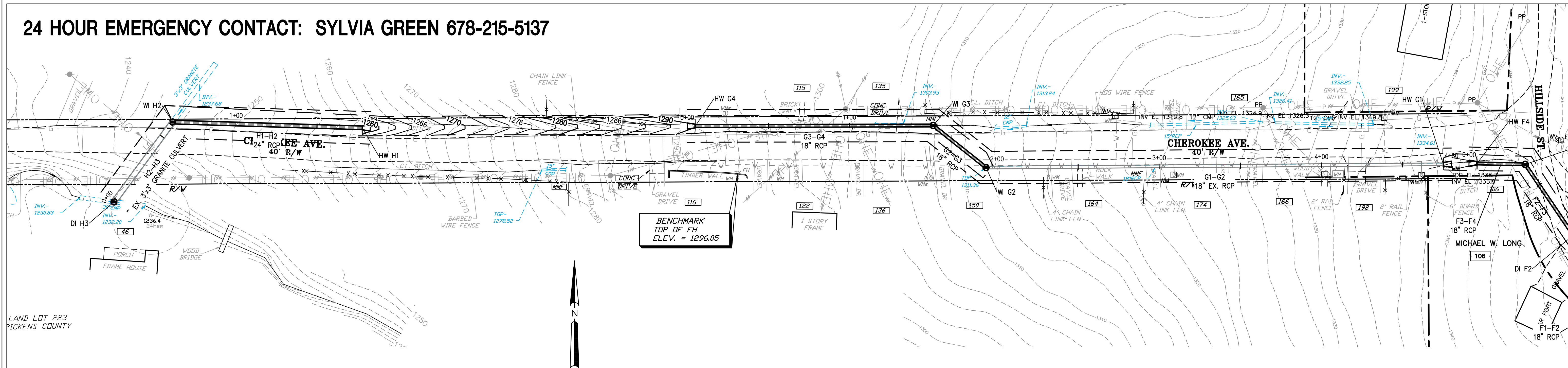
DATE	REVISIONS
06-05-2023	AS SHOWN
	PG
	GHB



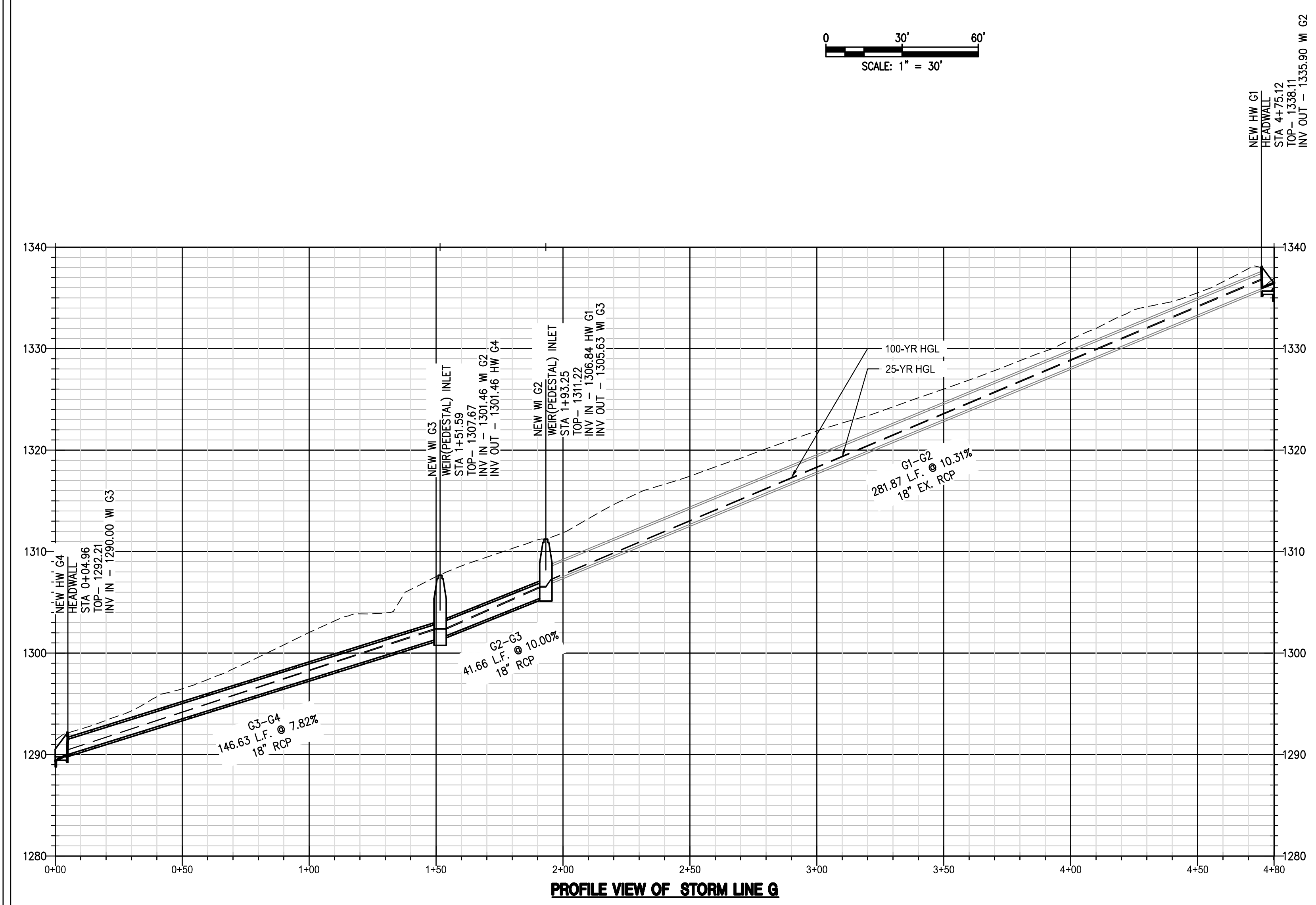
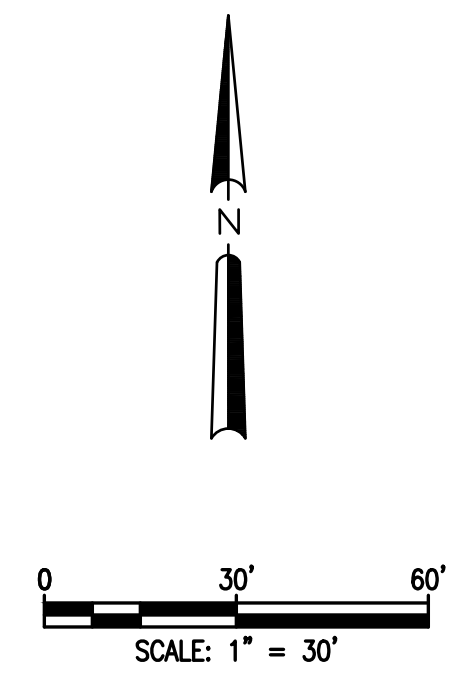
Construction Plans For:
CITY OF NELSON
DRAINAGE IMPROVEMENTS
Land Lot 223 Pickens County & Land Lot 234 Cherokee County
Pickens County & Cherokee County, Georgia

Sheet No.
C-2.1

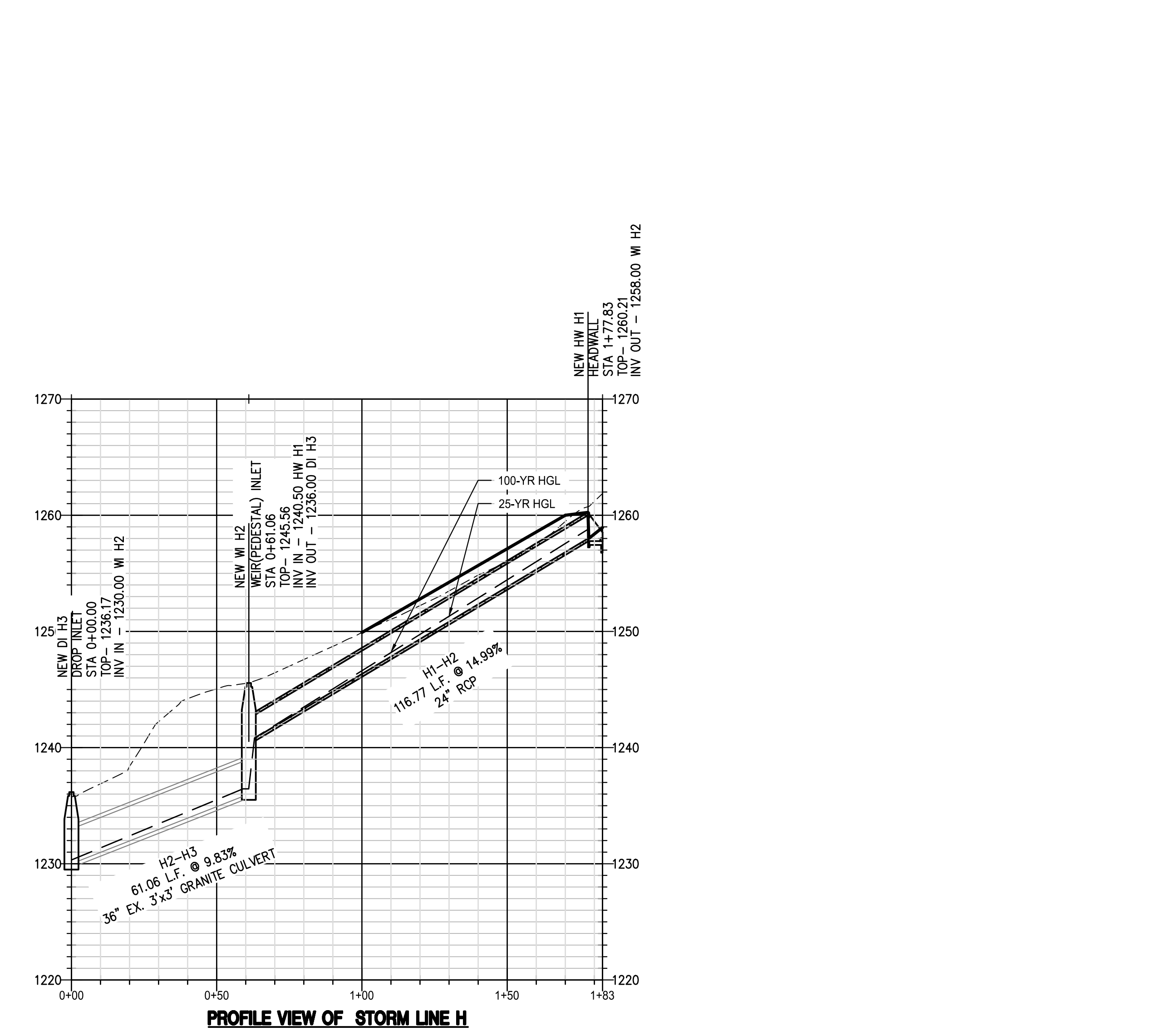
24 HOUR EMERGENCY CONTACT: SYLVIA GREEN 678-215-5137



LAND LOT 223
PICKENS COUNTY



PROFILE VIEW OF STORM LINE G



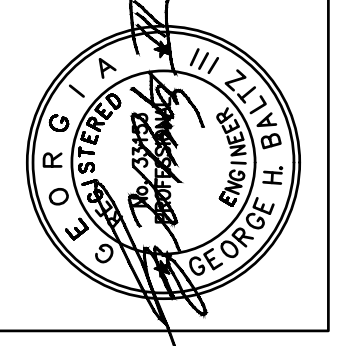
PROFILE VIEW OF STORM LINE H

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Construction Plans For:
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CVE PI # 23-073

Sheet No.
C-2.2

APPLICATION OF MULCH

DRY STRAW OR HAY APPLIED TO DEPTH OF 2 - 4 INCHES
WOOD CHIPS, BARK, SAWDUST APPLIED TO DEPTH OF 2 - 3 INCHES

Ds1

SPECIES	BROADCAST RATES 2/-PLS 3/ PER ACRE SQ. FT.	PLANTING DATES BY RESOURCE AREAS												REMARKS		
		J	F	M	A	M	J	J	A	S	O	N	D			
BARLEY (HORDEUM VULGARE)	3 bu. 3.3 lb. (144 lb.) 1/2 bu. 0.6 lb. (24 lbs.)	M-L														14,000 SEED PER POUND. WINTERHARDY. USE ON PRODUCTIVE SOILS.
LESPEDEZA ANNUAL (LESPEDEZA STRATA)	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	M-L														200,000 SEED PER POUND. MAY VOLUNTEER FOR SEVERAL YEARS. USE INOCULANT EL.
LONGGRASS (ERAGROSTIS CURVULA)	4 lbs. 0.1 lb. 2 lbs. 0.05 lb.	M-L														1,500,000 SEED PER POUND. LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
MILLET, BROWN TOP (Panicum fasciculatum)	40 lbs. 0.9 lb. 10 lbs. 0.2 lb.	M-L														137,000 SEED PER POUND. QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDING AT HIGH RATES.

TEMPORARY GRASSING

NOT TO SCALE

Ds2

VEGETATIVE PLAN

DUST CONTROL ON DISTURBED AREAS

SITE MUST BE CONTROLLED TO PREVENT SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADS, AND DEMOLITION AREAS. CONTRACTOR SHALL UTILIZE ADDITIONAL MEASURES TO CONTROL DUST AS REQUIRED. TEMPORARY METHODS: D1-MULCHING, T-TACKIFIERS AND BINDERS, D2-TEMPORARY SEEDING, SPRAY ON ADHESIVES, IRRIGATION. PERMANENT METHODS: D3-PERMANENT VEGETATION, D4-SODDING.

Du

SPECIES	BROADCAST RATES 1/-PLS 2/ PER ACRE SQ. FT.	PLANTING DATES BY RESOURCE AREAS												REMARKS		
		J	F	M	A	M	J	J	A	S	O	N	D			
BAHA PENSACOLA (Paspalum notatum)	60 lbs. 1.4 lb. 30 lbs. 0.7 lb.	M-L														166,000 SEED PER POUND. LOW GROWING SOO FORMING. SLOW TO ESTABLISH. PLANT W/ A COMPANION CROP WILL SPREAD INTO BERMUEDA PASTURES & LAWNS. MIX WITH SERICEA LESPEDEZA OR WEeping LOVEGRASS.
BERMUEDA COMMON (Cynodon dactylon)	10 lbs. 0.2 lb. 6 lbs. 0.1 lb.	M-L														1,787,000 SEED PER POUND. QUICK COVER. GOOD GROWING & SOO FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUEDA COMMON (Cynodon dactylon) UNHULLED SEED	10 lbs. 0.2 lb. 6 lbs. 0.1 lb.	M-L														PLANT WITH WINTER ANNUALS. PLAY WITH TALL FESCUE.

PERMANENT GRASSING

NOT TO SCALE

Ds3

VEGETATIVE PLAN

FERTILIZER REQUIREMENTS

TOP OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N DRESSING RATE
1. COOL SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 lbs./ac.	10-100 lbs./ac. 1/2
2. COOL SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1000 lbs./ac.	0-50 lbs./ac. 1/
3. WARM SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/

- 1) APPLY IN SPRING FOLLOWING SEEDING.
- 2) APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
- 3) APPLY IN 3 SPLIT APPLICATIONS.
- 4) APPLY WHEN PLANTS ARE PRUNED.
- 5) APPLY TO GRASS SPECIES ONLY.
- 6) APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

LIME APPLICATION REQUIREMENT - 2 TONS/ACRE

80% PASS THROUGH 10 - MESH SIEVE
50% PASS THROUGH 50 - MESH SIEVE
25% PASS THROUGH 25 - MESH SIEVE

FERTILIZERS

NOT TO SCALE

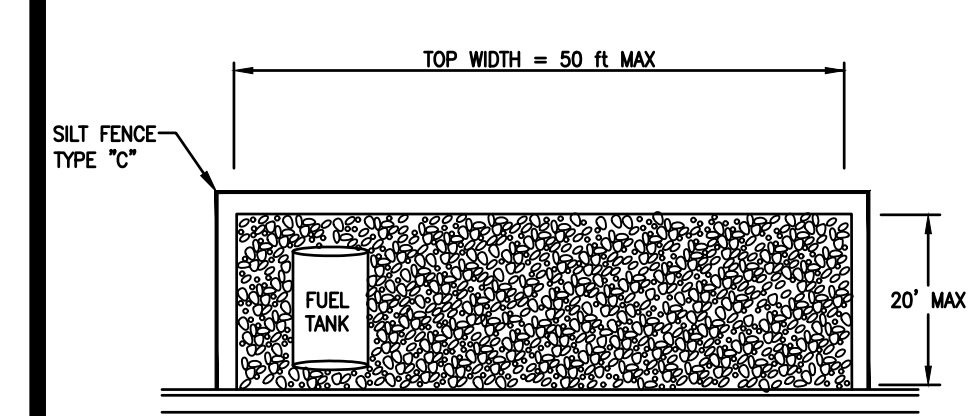
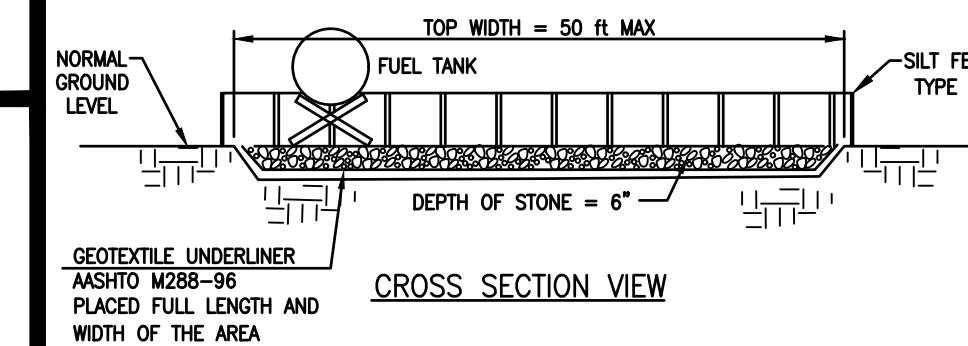
Vegetation Plan:

DISTURBED AREA STABILIZATION METHODS & SAMPLES

- DS1** (MULCHING ONLY) - A TEMPORARY COVER OF PLANT RESIDUES APPLIED TO SOIL SURFACE FOR A PERIOD OF (6) MONTHS OR LESS WHEN SEEDING IS NOT PRACTICAL. ON OR BEFORE THE 14TH DAY (OR DS2)
- DS2** (TEMPORARY SEEDING) - ESTABLISH A TEMPORARY VEGETATIVE COVER W/FAST GROWING SEEDS APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS. (THEN DS3)
- DS3** (PERMANENT VEGETATION) - AFTER (30) DAYS ESTABLISH PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOO OR LEGUMES. (AND/OR DS4)
- DS4** SOD FOR HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS-ALLOWS IMMEDIATE GROUND COVER REDUCING RUNOFF, EROSION, DUST & SEDIMENT.

FERTILIZER REQUIREMENTS FOR PERMANENT VEGETATION (Ds3)

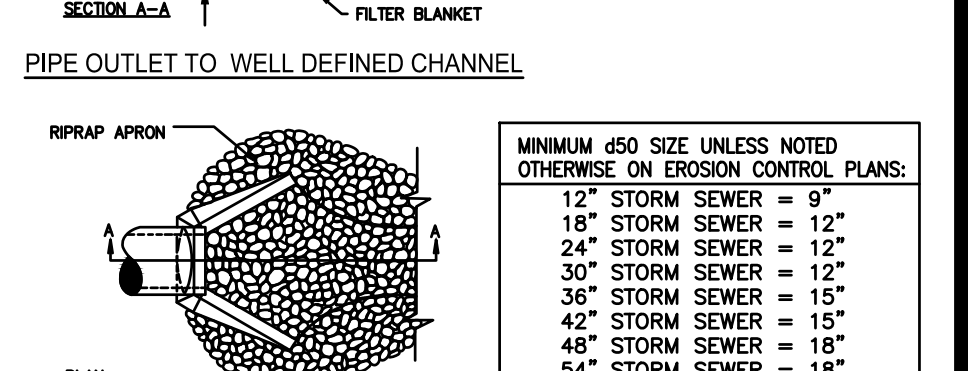
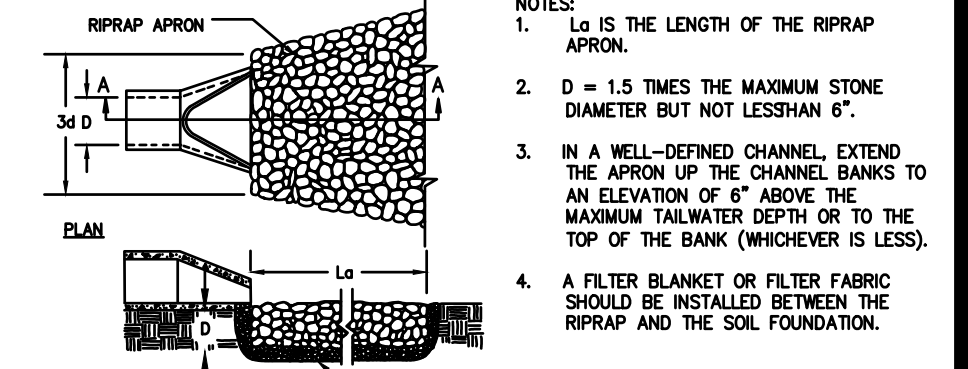
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (lb./acre)	RATE (lb./acre)	N TOP DRESSING RATE (lb./acre)
COOL SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500	0-50
WARM SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500	50-100



CONCRETE WASHOUT AREA

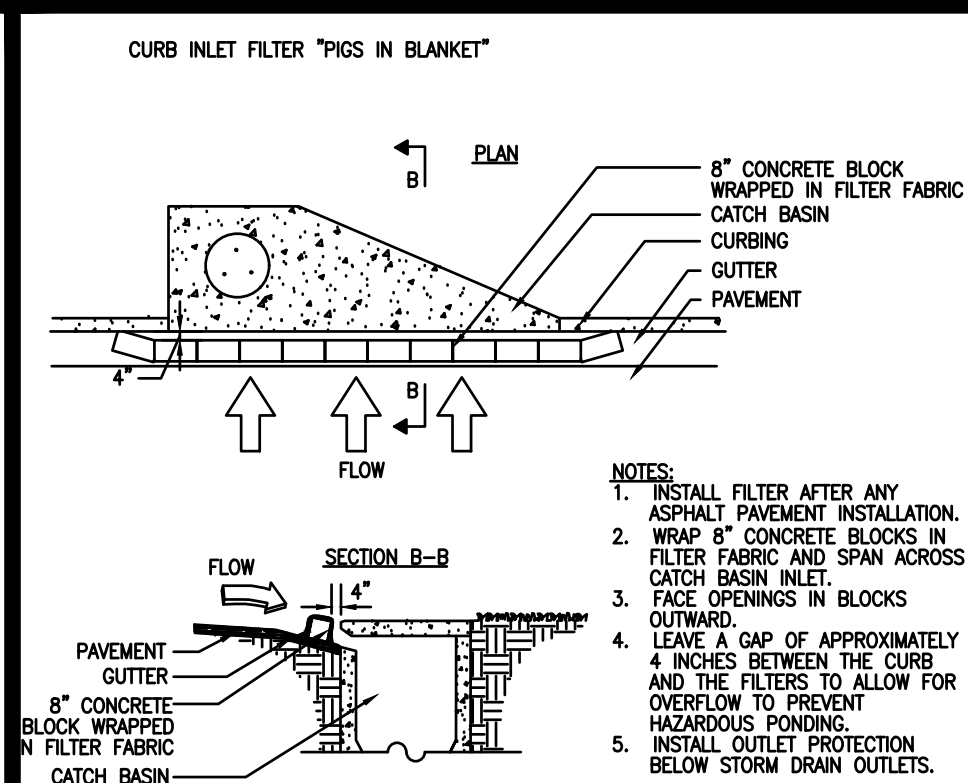
NOT TO SCALE

- #1 Q25=283.45cfs, V25=12.05fps, La=20ft, Do=5ft, 3Do=15ft, W=Do+La=25ft
- #2 Q25=5.00cfs, V25=5.50fps, La=13ft, Do=2ft, 3Do=6ft, W=Do+La=15ft
- #3 Q25=0.54cfs, V25=2.79fps, La=8ft, Do=1.5ft, 3Do=4.5ft, W=Do+La=9.5ft



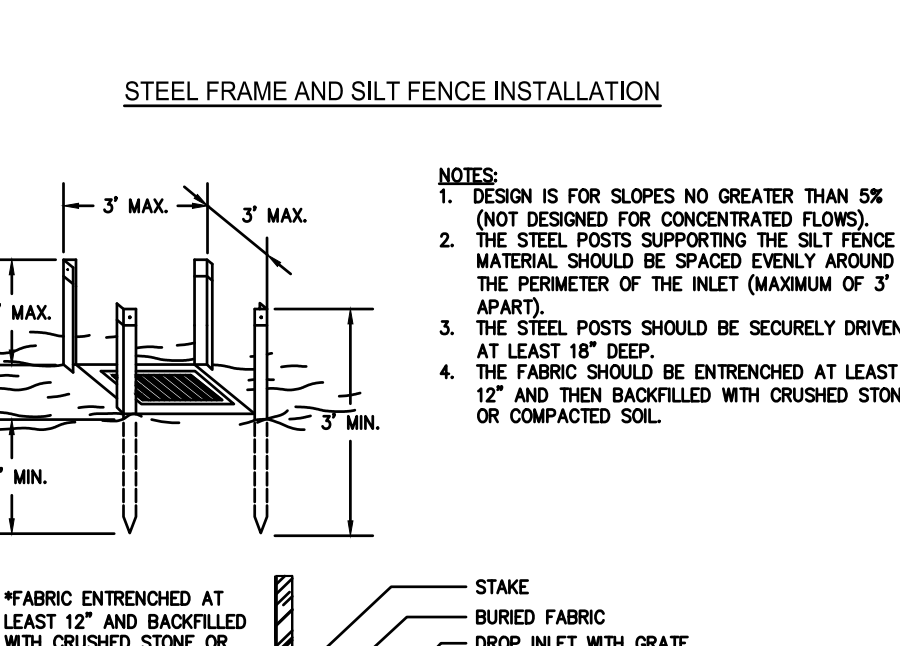
- NOTES:
- 1. AREA DESIGNATED FOR FUEL STORAGE AND CONCRETE TRUCKS TO DUMP EXCESS CONCRETE.

St



Sd2-P

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

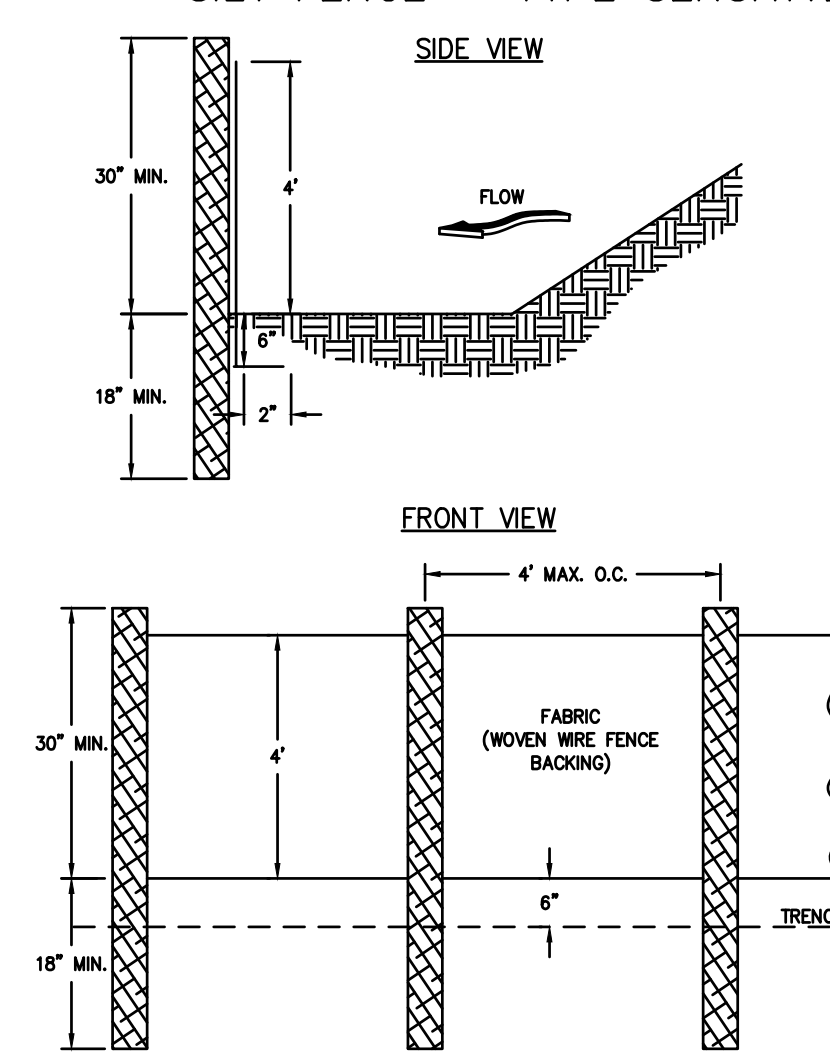


Sd2-F

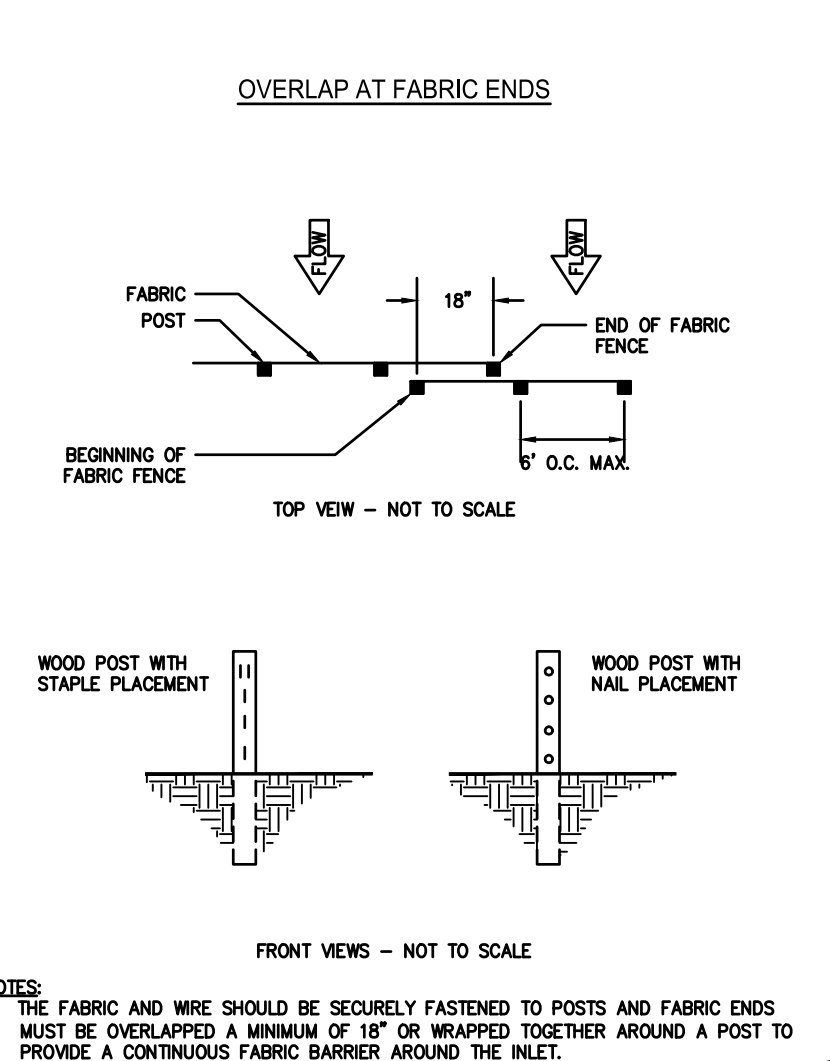
GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION
 GEORGE H. BALTZ III
 CERTIFICATION NUMBER: 0000045830
 ISSUED: 09/25/2007 EXPIRES: 11/10/2025

SIGNED: [Signature]
 NUMBER: 0000045830
 EXPIRATION: 11-10-25

SILT FENCE - TYPE SENSITIVE

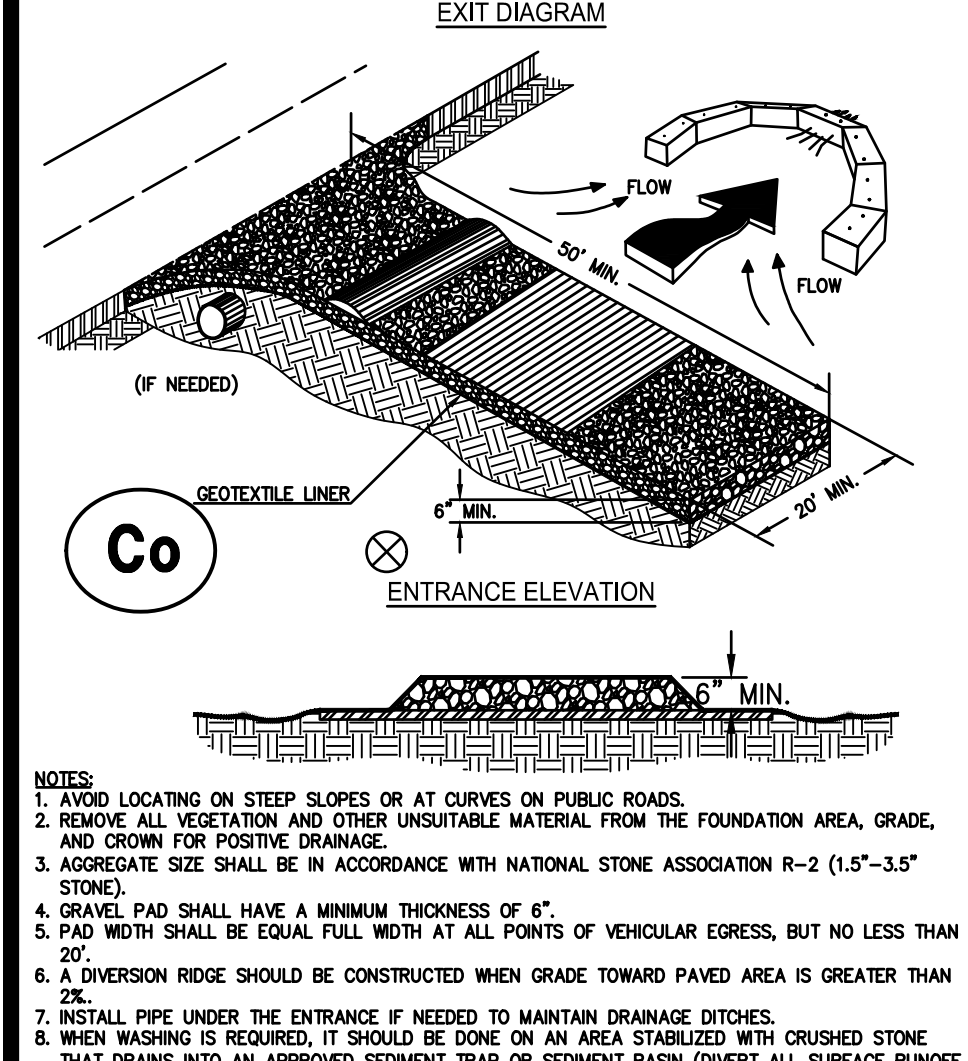


FASTENERS FOR SILT FENCES



Sd1-S

CRUSHED STONE CONSTRUCTION EXIT



Co

24 HOUR EMERGENCY CONTACT: SYLVIA GREEN 678-215-5137

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 770-735-2211

ES&PC - DETAILS

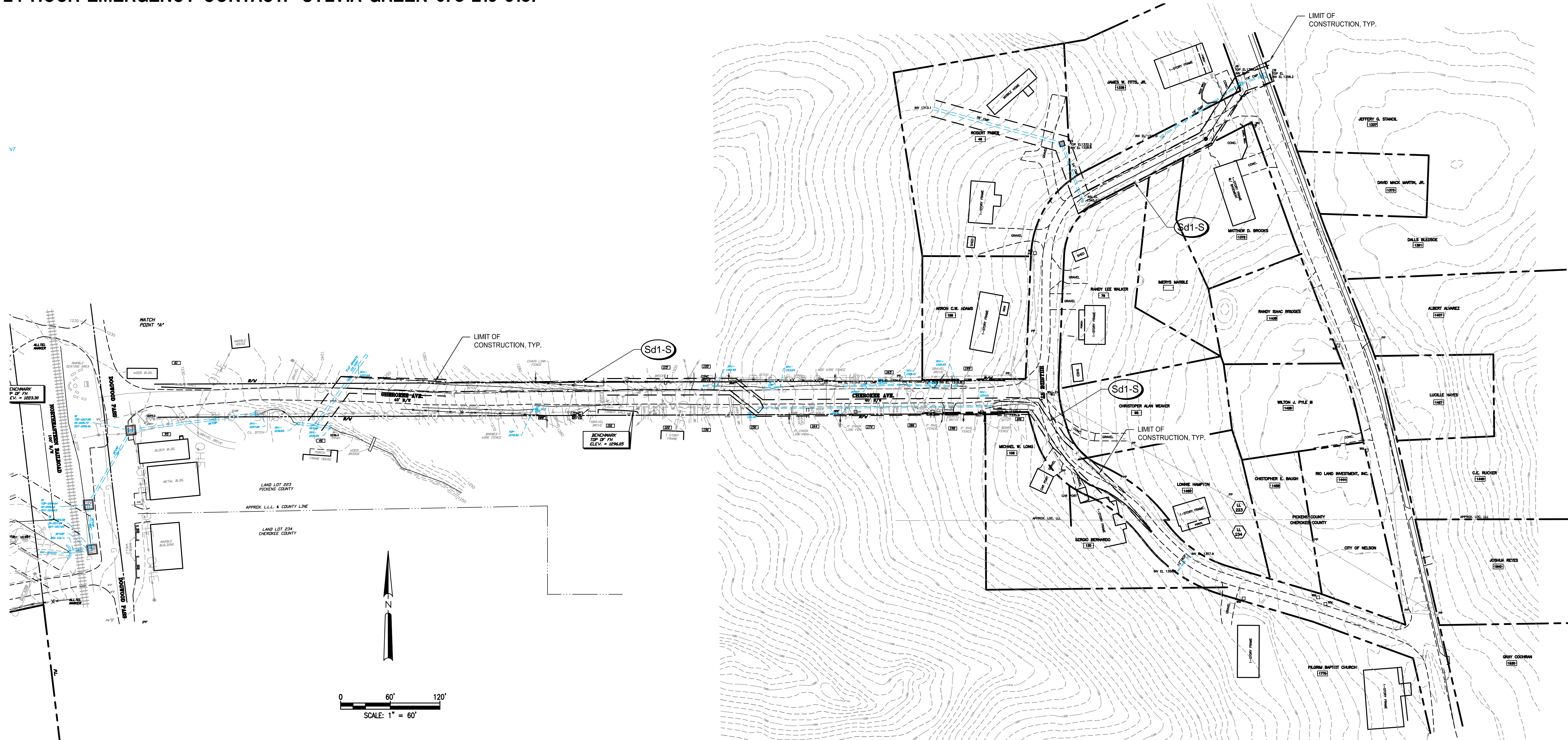
DATE	REVISIONS
06-05-2023	AS SHOWN

CHECKED: GHB

Construction Plans For: **CITY OF NELSON DRAINAGE IMPROVEMENTS**
 Land Lot 223 Pickens County & Land Lot 234 Cherokee County
 Pickens County & Cherokee County, Georgia

CVE PI # 23-073

Sheet No. **C-3.1**



ES&PC NOTES:

1. THE CONSTRUCTION STAGING AREA WILL BE THE EXISTING DRIVEWAY AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT ANY POTENTIAL TRACKING OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. SILT FENCE FABRIC SHALL BE COMPRISED OF GA. DOT QUALIFIED PRODUCTS LIST 36, FOR SILT FENCE FABRIC.
4. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
5. ALL OTHER WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS SAME MANUAL.
6. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE SILT FENCING AND REMOVE THE FENCING FROM THE SITE ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
7. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE, I.E.: CONSTRUCTION EXITS AND SILT FENCES SHALL BE RE-TOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
8. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
9. ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY INSPECTORS. THE EROSION CONTROL MEASURE CAN BE DESIGNED BY A LEVEL 1B (BLUE CARD) GASWCC CERTIFIED CONTRACTOR, UNLESS THE BMP HAS A HYDRAULIC COMPONENT. FOR ALL BMP DESIGN WITH A HYDRAULIC COMPONENT, THE BMP MUST BE DESIGNED BY A LEVEL 2 (GOLD CARD) GASWCC CERTIFIED DESIGNER. A CONSTRUCTION EXIT IS NOT PROPOSED DUE TO THE SMALL SIZE OF THE PROJECT AND THE LEVEL 1B CONTRACTOR MUST PROVIDE ALL MEASURES TO PREVENT ANY SILT FROM LEAVING THE SITE.

STATE WATERS STATEMENT:

THERE ARE WATERS OF THE STATE OF GEORGIA OR WETLANDS WITHIN 200 FEET OF THE SITE. ALL PROPER PERMITS WILL BE ACQUIRED BY THE CITY OF NELSON BEFORE ANY LAND DISTURBANCE IN ANY STREAM BUFFERS TAKES PLACE.

NO PORTION OF THIS PROPERTY IS INSIDE DESIGNATED F.I.A SPECIAL FLOOD HAZARD AREA AS PER THE FLOOD INSURANCE RATE MAP #13227C0188 C DATED SEPTEMBER 29, 2010, FOR PICKENS COUNTY AND INCORPORATED AREAS.

SOIL TYPES:

- MC - MADISON FINE SANDY LOAM, 6 TO 10 PERCENT SLOPES
- MD - MADISON FINE SANDY LOAM, 10 TO 15 PERCENT SLOPES
- TcE - TALLAPOOSA FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES

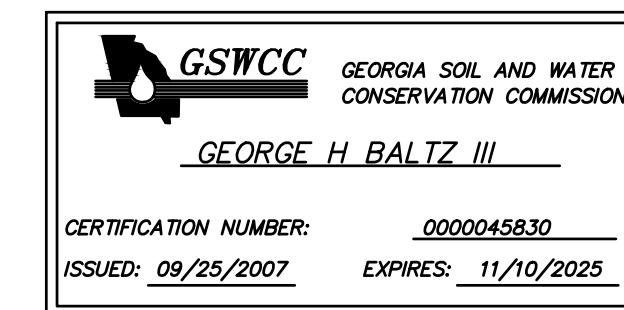
SITE AREAS:

TOTAL DISTURBED AREA = 0.97 ACRES
 THERE ARE NO WETLANDS ONSITE
 THERE ARE STATE WATERS ONSITE

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

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 PROVIDED BY THE CONTRACTOR FOR EFFECTIVE EROSION 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. EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.



SIGNED: *George H. Baltz III*
 NUMBER: 0000045830
 EXPIRATION: 11-10-25

Prepared By:
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ES&PC - INITIAL

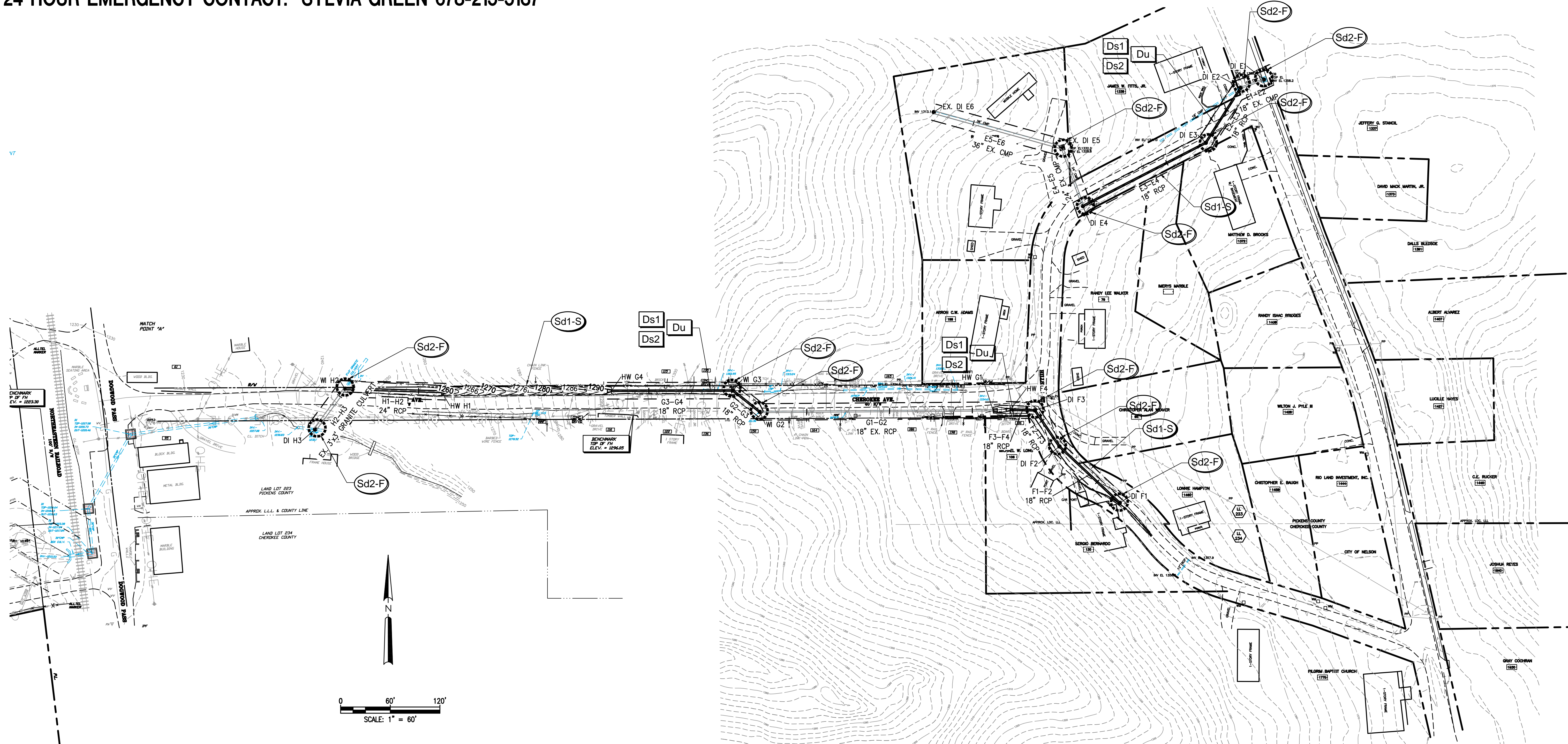
DATE	SCALE	DRAWN	CHECKED	REVISIONS
06-05-2023	AS SHOWN	PG	GHB	



Construction Plans For:
CITY OF NELSON
DRAINAGE IMPROVEMENTS
 Land Lot 223 Pickens County & Land Lot 234 Cherokee County
 Pickens County & Cherokee County, Georgia

CVE PI # 23-073

Sheet No.
C-3.2



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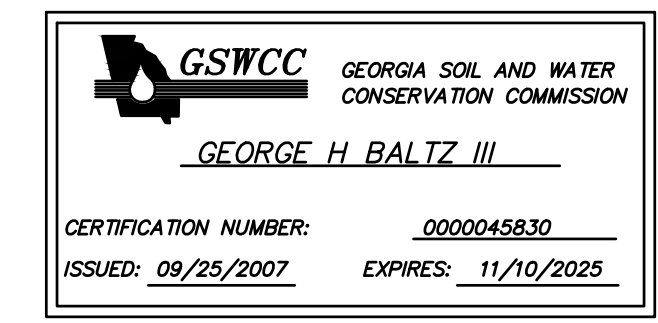
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 THERE ARE NO WETLANDS ONSITE
 THERE ARE STATE WATERS ONSITE

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

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 PROVIDED BY THE CONTRACTOR FOR EFFECTIVE EROSION IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

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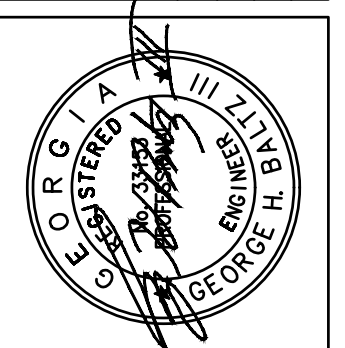


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ES&PC - INTERMEDIATE

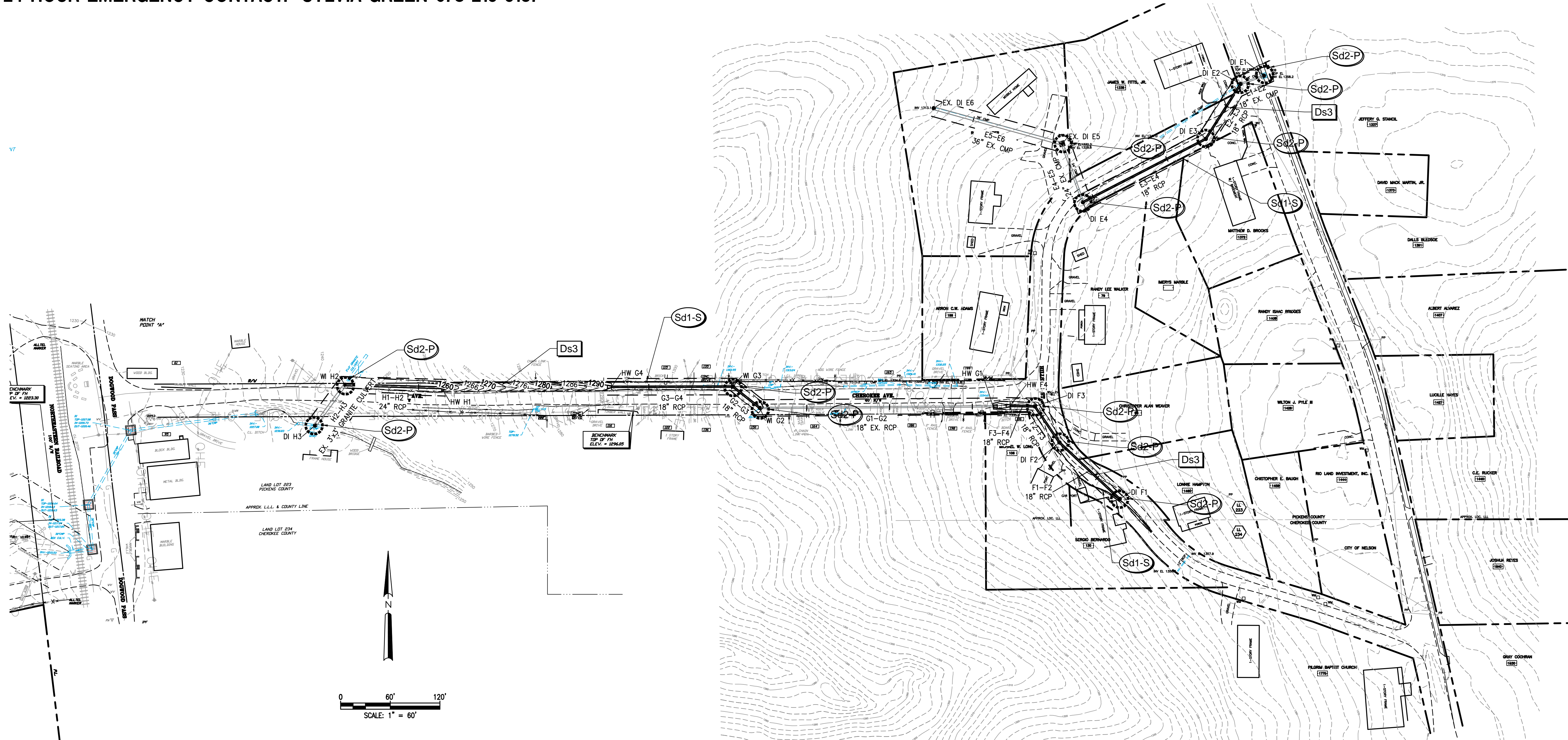
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Construction Plans For:
**CITY OF NELSON
 DRAINAGE IMPROVEMENTS**
 Land Lot 223 Pickens County & Land Lot 234 Cherokee County
 Pickens County & Cherokee County, Georgia

CVE PI # 23-073

Sheet No.
C-3.3



ES&PC NOTES:

1. THE CONSTRUCTION STAGING AREA WILL BE THE EXISTING DRIVEWAY AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT ANY POTENTIAL TRACKING OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. SILT FENCE FABRIC SHALL BE COMPRISED OF GA. DOT QUALIFIED PRODUCTS LIST 36, FOR SILT FENCE FABRIC.
4. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
5. ALL OTHER WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS SAME MANUAL.
6. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE SILT FENCING AND REMOVE THE FENCING FROM THE SITE ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
7. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE, I.E.: CONSTRUCTION EXITS AND SILT FENCES SHALL BE RE-TOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
8. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
9. ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY INSPECTORS. THE EROSION CONTROL MEASURE CAN BE DESIGNED BY A LEVEL 1B (BLUE CARD) GASWCC CERTIFIED CONTRACTOR, UNLESS THE BMP HAS A HYDRAULIC COMPONENT. FOR ALL BMP DESIGN WITH A HYDRAULIC COMPONENT, THE BMP MUST BE DESIGNED BY A LEVEL 2 (GOLD CARD) GASWCC CERTIFIED DESIGNER. A CONSTRUCTION EXIT IS NOT PROPOSED DUE TO THE SMALL SIZE OF THE PROJECT AND THE LEVEL 1B CONTRACTOR MUST PROVIDE ALL MEASURES TO PREVENT ANY SILT FROM LEAVING THE SITE.

STATE WATERS STATEMENT:

THERE ARE WATERS OF THE STATE OF GEORGIA OR WETLANDS WITHIN 200 FEET OF THE SITE. ALL PROPER PERMITS WILL BE ACQUIRED BY THE CITY OF NELSON BEFORE ANY LAND DISTURBANCE IN ANY STREAM BUFFERS TAKES PLACE.

NO PORTION OF THIS PROPERTY IS INSIDE DESIGNATED F.I.A SPECIAL FLOOD HAZARD AREA AS PER THE FLOOD INSURANCE RATE MAP #13227C0188 C DATED SEPTEMBER 29, 2010, FOR PICKENS COUNTY AND INCORPORATED AREAS.

SOIL TYPES:

- MC - MADISON FINE SANDY LOAM, 6 TO 10 PERCENT SLOPES
- MD - MADISON FINE SANDY LOAM, 10 TO 15 PERCENT SLOPES
- TcE - TALLAPOOSA FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES

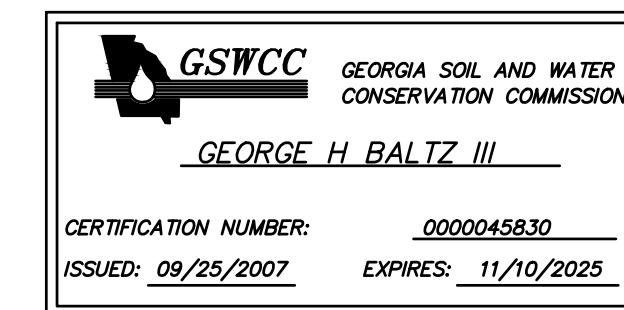
SITE AREAS:

TOTAL DISTURBED AREA = 0.97 ACRES
THERE ARE NO WETLANDS ONSITE
THERE ARE STATE WATERS ONSITE

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

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SIGNED: *George H. Baltz III*
NUMBER: 0000045830
EXPIRATION: 11-10-25

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ES&PC - FINAL

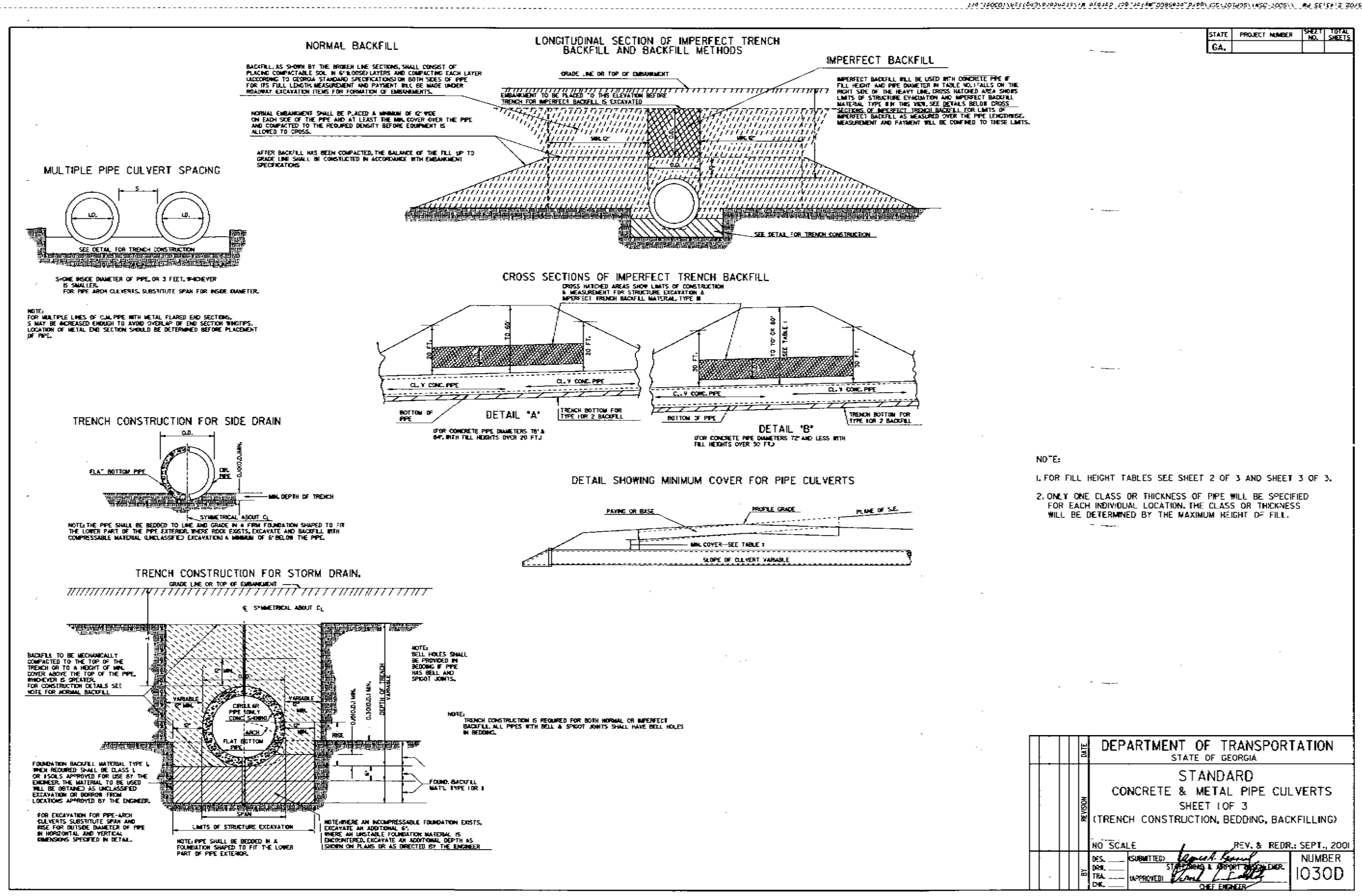
DATE	SCALE	DRAWN	CHECKED	REVISIONS
06-05-2023	AS SHOWN	PG	GHB	



Construction Plans For:
CITY OF NELSON
DRAINAGE IMPROVEMENTS
Land Lot 223 Pickens County & Land Lot 234 Cherokee County
Pickens County & Cherokee County, Georgia

CVE PI # 23-073

Sheet No.
C-3.4



NO.	REVISION
1	ISSUED

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 1 OF 3
(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)

NO SCALE
REV. & REOR. SEPT., 2000

DATE SUBMITTED: 10/15/03
DATE APPROVED: 10/15/03
NUMBER: 1030D

TABLE NO. 1 R ROUND PIPE - SPIRAL RIB STEEL, SPIRAL RIB ALUMINUM
MINIMUM TENSILE STRENGTH AND ALLOWABLE STRESS

PIPE DIAMETER (INCHES)	1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80	80-90	PIPE WALL THICKNESS (INCHES)
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.12
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.15
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.18
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.24
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.30
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.36
42	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.42
48	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.48
54	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.54
60	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.60
66	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.66
72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.72
78	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.78
84	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.84
90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90
96	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96
102	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.02
108	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.08
114	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.14
120	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.20

R DENOTES SPIRAL RIB PROFILE 3/4" X 3/4" X 1-1/2"
TABLE VALUES FOR ALUMINUM SPIRAL RIB PIPE ARE COMPUTED BASED UPON ALUMINUM ALLOY 3003-H14 HAVING MINIMUM YIELD STRENGTH, $f_y=24,000$ PSI.
IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3003-H14 (F=24,000 PSI), ALLOWABLE VALUES SHALL BE ADJUSTED AS FOLLOWS:
R. 411 HORIZONTAL VALUES SHALL BE DECREASED BY 15 PERCENT. (E.G. 44MP-E-35-40FT, BECOMES 28-3-360FT.)
MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
TRENCH CONSTRUCTION IS REQUIRED FOR ALL INSTALLATIONS.

PIPE DIAMETER (INCHES)	1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80	80-90	90-100
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
42	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
54	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
60	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
66	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
78	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
84	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
96	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
102	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
108	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
114	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
120	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 3 OF 3
FILL HEIGHTS FOR SPIRAL RIB METAL PIPE & FOR PIPE ARCH

NO SCALE
REV. & REOR. SEPT., 2000

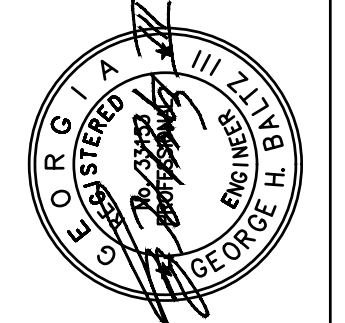
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CONSTRUCTION DETAILS

DATE	06-05-2023	REVISIONS
SCALE	AS SHOWN	
DRAWN	PG	
CHECKED	GHB	



Construction Plans For:
**CITY OF NELSON
DRAINAGE IMPROVEMENTS**
Land Lot 223 Pickens County & Land Lot 234 Cherokee County
Pickens County & Cherokee County, Georgia

CVE PI # 23-073

Sheet No.
C-4.1