Construction Drawings for the

DOROTHEA REDWINE PARK PHASE ONE

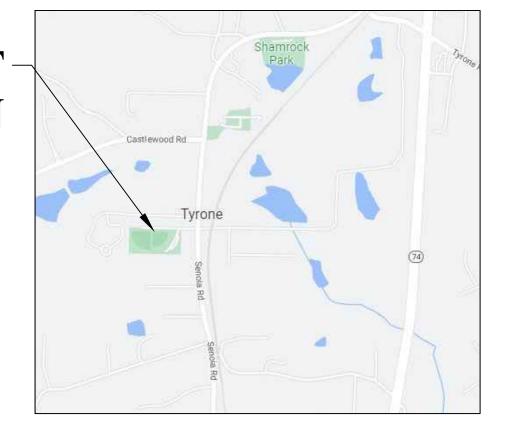
PROJECT LOCATION

ATLANTA

ATLANTA

AREA MAP

N.T.S.







Town Project No.: PW-2022-12

Tyrone, Georgia

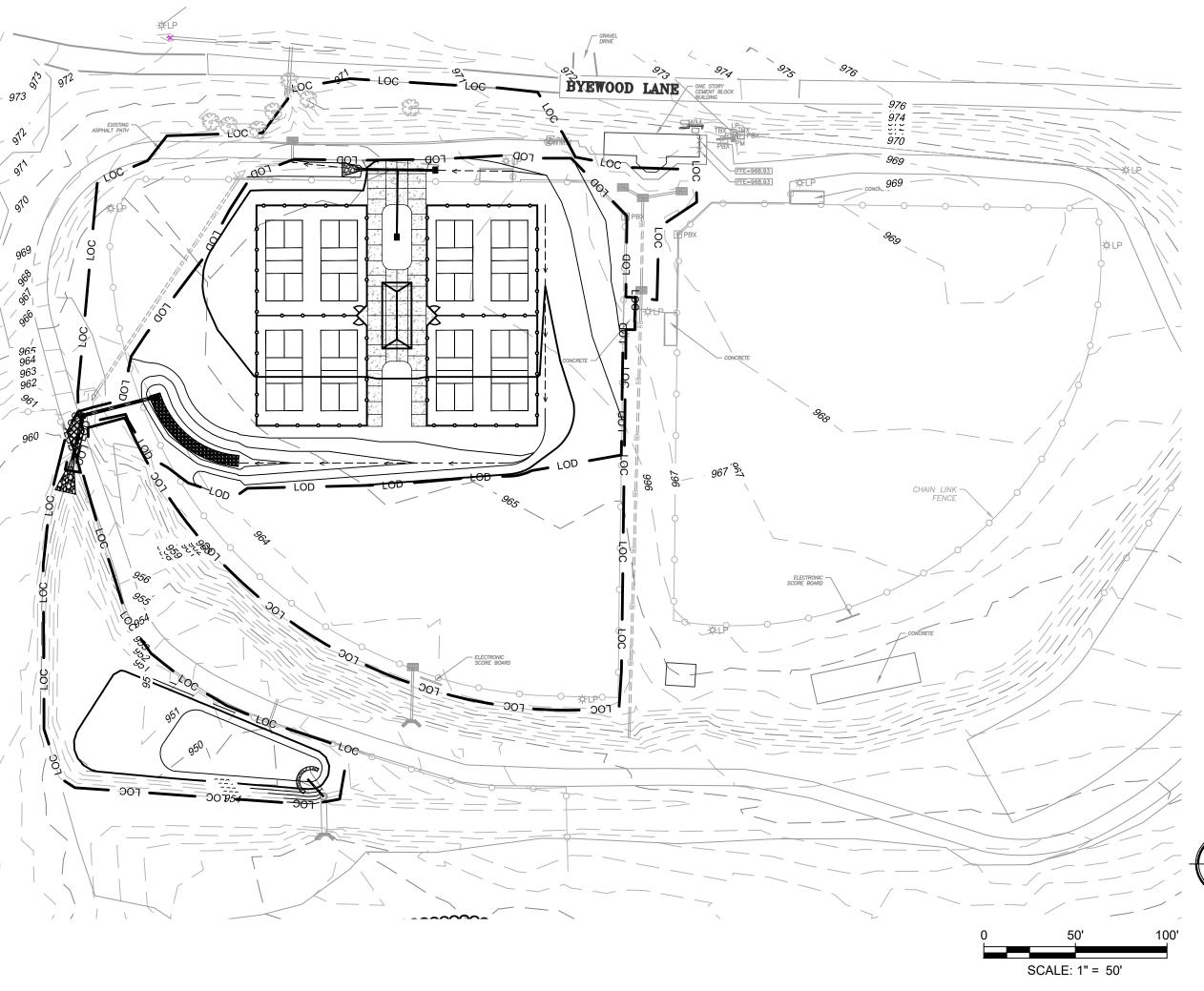
October 21, 2022

OWNED BY:

Town of Tyrone 950 Senoia Road Tyrone, Georgia 30290 (770) 487-4038

DEVELOPED BY:

Keck & Wood, Inc.
445 Jeff Davis Drive N.
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Fayetteville, Georgia 30214
(470) 598-1800



SITE PLANS

SHEET NUMBER	SHEET TITLE
C.0.0	COVER SHEET
C.0.1	GENERAL NOTES AND LEGEND
C.1.0	TOPOGRAPHICAL SURVEY
C.2.0	SITE DEMOLITION PLAN
C.3.0	SITE PLAN
C.4.0	GRADING PLAN
C.5.0	STORM SEWER PLAN
C.5.1	DRAINAGE PROFILES
D.1.0	CONSTRUCTION DETAILS
D.2.0	CONSTRUCTION DETAILS
D.3.0	CONSTRUCTION DETAILS
D.4.0	CONSTRUCTION DETAILS
D.5.0	SHELTER DETAILS
EC.1.0	ESPCP COVER
EC.1.1	ESPCP NOTES
EC.1.2	ESPCP NOTES & LEGEND
EC.1.3	ESPCP - PHASE 1
EC.1.4	ESPCP - PHASE 2
EC.1.5	ESPCP - PHASE 3
EC.1.6	ESPCP DETAILS
EC.1.7	ESPCP DETAILS
L.1.0	LANDSCAPE PLAN
L.2.0	LANDSCAPE DETAILS

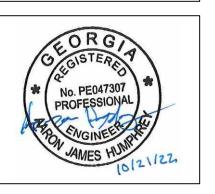
CECION Center, Inc.

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COLLABORATION BY DES 445 Jeff Davis Drive N, Suites B & Fayetteville, GA 30214 (404) 598-1800 keckwoo



REVISION					
DATE					
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DOROTHEA REDWINE PARK - PHASE ON TYRONE, GEORGIA TOWN PROJECT NO.: PW-2022-12 COVER SHEET

THIS BAR IS

1 INCH LONG

PLOTTED FULL SCAL

1 INCH LONG
PLOTTED FULL SCA

Project Manager:
SAM SERIO, P.E.

Drawn By: Checked By:

Date: 10/21/2022

Scale: As Shown

Project No.:

220265

C.0.0

THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD83 GEORGIA COORDINATE SYSTEM, WEST ZONE. VERTICAL DATUM USED IS NAVD88.

BASED ON SURVEY BY:
ROCHESTER & ASSOCIATES
286 HIGHWAY 314, SUITE A
FAYETTEVILLE, GA 30214
EMAIL: JNCOLLINS@ROCHESTER-ASSOC.COM
PHONE: 770-718-0600
DATE: 06/24/2022

GENERAL CONSTRUCTION NOTES:

- 1. CONTRACTOR TO CONTACT 811 TO REQUEST LOCATES OF UNDERGROUND UTILITIES IN THE AREA PRIOR TO
- COMMENCING CONSTRUCTION. 2. UTILITIES SHOWN ON PLANS ARE APPROXIMATELY LOCATED. ALL EXISTING UTILITIES MAY NOT HAVE BEEN FIELD LOCATED. UTILITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING THE LOCATION OF AND PRESERVING ALL UTILITIES INCLUDING THOSE NOT SHOWN OR INCORRECTLY SHOWN ON THE PLANS.
- 3. CONTRACTOR TO FIELD VERIFY LOCATIONS AND ELEVATION OF EXISTING IMPROVEMENTS WHICH EFFECT NEW WORK PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES
- 4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION & PROTECTION OF EXISTING ABOVE AND BELOW GRADE UTILITIES AND STRUCTURES. ANY AND ALL MAINS OR INDIVIDUAL SERVICES PRESENTLY IN SERVICE WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE
- 5. CONTRACTOR IS TO MAINTAIN ALL UTILITY SERVICES INCLUDING BUT NOT LIMITED TO WATER, SANITARY SEWER, STORM SEWER, NATURAL GAS, ELECTRIC, AND TELEPHONE AT ALL TIMES DURING CONSTRUCTION EXCEPT WHERE
- 6. CONTRACTOR IS TO KEEP ALL PARKING AREAS, ALLEYS, AND STREETS ADJACENT TO THE CONSTRUCTION SITE CLEAN AT ALL TIMES DURING CONSTRUCTION. UNLESS GRANTED PERMISSION PRIOR TO CONSTRUCTION.
- 7. CONTRACTOR IS TO ADJUST THE ELEVATION OF THE RINGS AND COVERS OF ALL EXISTING UTILITIES WHICH ARE TO
- REMAIN TO MATCH THE NEW SURROUNDING GRADES. 8. ALL SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED AS NEEDED FOR THE CONSTRUCTION AND REPLACED AS SOON AS PRACTICAL.
- 9. SIGNING OF THE CONSTRUCTION AREA SHALL COMPLY WITH THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". ALL SIGNAGE INCLUDING REGULATORY AND WARNING SIGNS WHICH ARE OWNED AND MAINTAINED BY THE SCDOT ARE TO REMAIN THROUGHOUT THE DEMOLITION AND CONSTRUCTION PHASES. ALL SIGNS WHICH NEED TO BE REMOVED ARE TO BE RELOCATED IMMEDIATELY.
- 10. CONTRACTOR TO MATCH EXISTING FINISHES ON ALL ASPHALT AND CONCRETE SURFACES.
- 11. ALL PIPE ELEVATIONS SHOWN ARE TO THE INVERT UNLESS NOTED OTHERWISE. 12. THE USE OF PRECAST STRUCTURES FOR STORM SEWER IMPROVEMENTS WILL BE DONE SO AT THE CONTRACTOR'S RISK. NO ADDITIONAL PAYMENT WILL BE MADE FOR A REPLACEMENT STRUCTURE DUE TO UTILITY CONFLICTS.

GENERAL CONSTRUCTION NOTES

DEMOLITION NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR COMPLETELY DEMOLISHING ALL NECESSARY CURB & GUTTER, ASPHALT PAVEMENT, ASPHALT STONE BASE, AND OTHER ITEMS IDENTIFIED ON THE CONSTRUCTION DRAWINGS IN ORDER TO
- ALL DEMOLITION AND CONSTRUCTION DEBRIS IS TO BE LEGALLY DISPOSED OF OFF SITE. CONTRACTOR IS TO MAINTAIN UTILITY SERVICES, INCLUDING WATER, SANITARY SEWER, STORM SEWER, NATURAL GAS, ELECTRIC AND TELEPHONE AT ALL TIMES DURING CONSTRUCTION EXCEPT WHERE IDENTIFIED ON PLANS.
- COORDINATE WITH UTILITY PROVIDERS IF NECESSARY. 4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION & PROTECTION OF EXISTING ABOVE AND BELOW GRADE UTILITIES. UTILITIES PRESENTLY IN SERVICE WHICH ARE DAMAGED DURING CONSTRUCTION SHALL
- BE REPAIRED IMMEDIATELY AT NO ADDITIONAL EXPENSE TO THE OWNER OR UTILITY PROVIDER. 5. CONTRACTOR TO BARRICADE THE DEMOLITION AREA TO PREVENT PEDESTRIANS AND MOTORIST FROM ENTERING THE AREA.
- 6. CONTRACTOR TO REMOVE ALL TREES, SHRUBS, OR OTHER VEGETATION WITHIN DEMOLITION LIMITS UNLESS OTHERWISE NOTED.
- 7. CONTRACTOR TO SAW CUT ALL CONCRETE AND ASPHALT THAT IS TO BE REMOVED TO ENSURE A SMOOTH TRANSITION BETWEEN NEW AND EXISTING SURFACES. 8. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY FEATURES DAMAGED DURING CONSTRUCTION NOT INTENDED
- FOR DEMOLITION; INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURING, SIDEWALKS, LANDSCAPING, SIGNS, OR HARDSCAPE ITEMS. THE CONTRACTOR SHALL REPAIR DAMAGED FEATURES TO ORIGINAL CONDITION OR BETTER AT CONTRACTORS EXPENSE.

DEMOLITION NOTES

ROADWAY NOTES:

- 1. ALL PROOF ROLLS WILL BE CONDUCTED BETWEEN THE HOURS OF 8:00 AM AND 5:00 PM MONDAY FRIDAY. 2. PROOF ROLL WILL BE REDONE IF THE PROJECT IS RAINED ON BEFORE ANY CONCRETE, STONE, OR ASPHALT IS
- 3. THE CONTRACTOR SHALL SCHEDULE PROOF ROLL WITH OWNER AND A GEOTECHNICAL ENGINEER OR HIS OR HER REPRESENTATIVE.
- 4. UNDERCUTTING UNSUITABLE MATERIAL IS ACCEPTABLE, USING ONLY APPROVED FILL. 5. ANY FIELD CHANGES MUST BE APPROVED BY THE ENGINEER OF RECORD.
- 6. GEOTECHNICAL/COUNTY ENGINEER WILL HAVE THE FINAL DECISION ON ALL PROOF ROLLS.

ROADWAY NOTES

PAVEMENT MARKING NOTES:

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO STANDARDS AS OUTLINED IN THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- EXISTING PAVEMENT MARKINGS ARE NOT SHOWN. ALL NEW PAVEMENT MARKINGS SHALL TIE INTO EXISTING MARKINGS. EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE OBLITERATED. OBLITERATION OF PAVEMENT MARKINGS SHALL ERADICATE MARKINGS TO THE EXTENT THAT THE RESULTING FINISH WILL NOT DELINEATE THE PREVIOUS MARKINGS UNDER ANY LIGHTING OR WEATHER CONDITIONS. THE METHOD USED SHALL IN NO WAY MATERIALLY DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT. BLACK PAINT AND LIQUID ASPHALT
- 4. ALL PAVEMENT MARKINGS AND SYMBOLS INTERIOR TO SITE SHALL BE PAINTED WITH A DRIED THICKNESS OF 15 MILS.

PAVEMENT MARKING NOTES

GRADING NOTES:

- 1. ALL FINISHED GRADES SHALL BE BELOW FFE OF EXISTING BUILDINGS AND STRUCTURES TO ALLOW FOR PROPER
- 2. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL HARDSCAPE, LANDSCAPE, AND TURF AREAS. NO PONDING
- WHERE PROPOSED AND EXISTING GRADES MEET, TRANSITIONS SHALL BE SMOOTH AND BLEND NATURALLY TO THE EXISTING TOPOGRAPHY.
- 4. ALL TURF AREAS SHALL BE GRADED SMOOTHLY TO PREVENT SCALPING WHEN MOWED.

GRADING NOTES

- CONSTRUCTION STAGING SHALL BE LOCATED IN PARKING LOT TO THE EAST OF THE SITE UNLESS AN ALTERNATE LOCATION IS AGREED UPON WITH THE TOWN OF TYRONE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOT BLOCK BYEWOOD LANE OR ANY DRIVEWAYS ALONG THE ROAD. ALL PARKING SHALL BE IN PARKING LOT. . CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SECURITY ON THE SITE.
- 4. THE CONTRACTOR SHALL ENSURE POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS.

. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE. NO PONDING SHALL OCCUR.

- 5. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED SUFFICIENT TO RETARD
- 6. TYPE OF GRASS OR SOD USED ON THIS PROJECT WILL BE REQUIRED TO MATCH TYPE OF
- GRASS OR SOD WHICH MAY BE PLATED AND GROWING ON THE ADJACENT LAWN. I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA ETC. 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL
- FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL. 8. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF TYRONE PUBLIC WORKS FOR REPAIR AND REPLACEMENT OF EXISTING UNDERGROUND UTILITIES AS NEEDED. CONTRACTOR TO
- ENSURE ALL BACKFILL MEETS MINIMUM COMPACTION REQUIREMENTS. 9. CONTRACTOR TO ENSURE THAT ALL PROPOSED CONCRETE IS FINISHED TO THE SATISFACTION OF THE TOWN OF TYRONE. CONTRACTOR TO COORDINATE WITH THE TOWN OF TYRONE AND ENGINEER TO REVIEW THE FIRST CONCRETE POUR, PRIOR TO MOVING FORWARD WITH THE REMAINING CONCRETE PLACEMENT.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-BUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE DESIGNER, OWNER, AND/OR THE INSPECTOR UPON REQUEST. THE
- MARK-UPS SHALL BE KEPT AT THE SITE AT ALL TIMES DURING CONSTRUCTION AND PROVIDED TO THE OWNER A THE END OF CONSTRUCTION. 11. COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. 12. DEMOLITION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE CONTRACT OR PROJECT SPECIFICATIONS. ALL WASTE SOILS, VEGETATION, AND

OTHER DELETERIOUS MATERIALS SHALL BE HAULED OFF-SITE AND DISPOSED OF AT AN APPROVED LOCATION IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

- BURNING WILL NOT BE ALLOWED ON THIS PROJECT UNLESS WRITTEN APPROVAL IS OBTAINED 13. ANY DISTURBANCE OF THE EXISTING POND IS CONSIDERED TO BE POND MAINTENANCE AND IS
- 14. GRADING COMPLETE INCLUDES BUT IS NOT LIMITED TO MOBILIZATION, CLEARING, GRUBBING, GRADING, DEMOLITION, TEMPORARY MEASURES, SAWCUTTING PAVEMENT, REMOVAL OF TREES AND STUMPS, REMOVAL OR CURB AND PAVEMENT, ADJUSTING MANHOLES, WATER VALVES, WATER METERS, AND OTHER UTILITIES TO FINISHED GRADE, CONSTRUCTION TESTING, REPLACEMENT OF PROPERTY OWNER FEATURES DAMAGED OR REMOVED DURING CONSTRUCTION (THIS INCLUDES ITEMS INSIDE AND OUTSIDE THE CONSTRUCTION LIMITS). ANY ITEM NOT SPECIFIED SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR GRADING COMPLETE.

ADDITIONAL NOTES

NOT INCLUDED IN THE OVERALL DISTURBED AREA.

	EXISTING	PROPOSED
	SANITARY SEWER	
SANITARY MANHOLE	(\$)	©
SANITARY SEWER LINE		
SANITARY SEWER SERVICE		
SEWER FORCE MAIN	FM	
AIR RELEASE VALVE		
	POTABLE WATER	
FIRE HYDRANT	X	•
WATER SERVICE	□wm	
WATER VALVE	i iii	₩ 😥
ree	νν	
TAP ————————————————————————————————————		
REDUCER	Ω	ρ
BLOWOFF	•	•
STUBOUT		w
WATERLINE		WL
FIRE LINE	F——F	
WELL	(i)	©
	STORM SEWER	
FLARED END SECTION		
TYPE 1 CATCH BASIN		
TYPE 9 CATCH BASIN	0	0
STORM DRAIN JUNCTION BOX	0	
DROP INLET		
STORM DRAIN	SD	
STORM DRAIN EASEMENT		
GRADIN	G / EROSION CONTRO	L
MAJOR CONTOUR	600	
MINOR CONTOUR		
TEMPORARY CONTOUR		
SPOT ELEVATION	×500.00	×500.00
TOP OF WALL ELEVATION	×TW-500.00	XTW-500.00
BOTTOM OF WALL ELEVATION	×BW-500.00	×BW-500.00
TEMPORARY INLET PROTECTION	, ,	
LIMITS OF CONSTRUCTION		LOC —
LIMITS OF CONSTRUCTION LIMITS OF DISTURBANCE		
		LOD
TEMPORARY DIVERSION DIKE		→ TDD —
FEMPORARY DIVERSION SWALE		→ TD8
PERMANENT SWALE/DITCH	→ SWALE	
EXISTING SWALE/DITCH	- · · -> · · · · ->	
SILT FENCE		-c 61- -c
TIME OF CONCENTRATION		Tc
SOIL BOUNDARY	SB	
SOIL TYPE	IdA	
TEMPORARY SEDIMENT TRAP		T1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
BASIN		Sd4-C
WATER QUALITY BASIN		WQ2
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE		
CHECK DAM		DOCUMENTO CO
TEMPORARY FILTER BERM		

	EXISTING	PROPOSED
	DRY UTILITIES	
LIGHT POLE	\$	*
POWER POLE	D	D
GUY WIRE	-0	
ELECTRICAL TRANSFORMER		
ELECTRICAL BOX		
TELEPHONE PEDESTAL	•	
TRANSMISSION TOWER		
OVERHEAD ELECTRIC	OE	OE
UNDERGROUND ELECTRIC	UE	UE
GAS VALVE	S ^{GV}	
GAS LINE	— — — G —	G
UNDERGROUND TELEPHONE	UT	UT
	SITE PLAN	
ACCESSIBLE RAMP	(ACC)	ACC
SIGN		-
DOUBLE POLE SIGN	-0-0	•
ACCESSIBLE PARKING SPACE	Ġ.	Ġ.
CROSSWALK		
DIRECTIONAL ARROWS (FOR INFORMATION ONLY)		
DIRECTIONAL ARROWS (TO BE PAINTED)	44117	411
CONCRETE SIDEWALK	4	
TRAIL	HAHA	
BUILDINGS	(1/11111)	
PARKING BUMPER		
LOT NUMBER	97 (252)	97) (102)
BOLLARD	•	•
MAIL BOX	MAIL	
REVISION MARKER		1
I	LANDSCAPING	
TREE SAVE AREA		
OPEN SPACE		* * * * * * * * * * * * * * * * * * *
TREES		
OAK		
SWEET GUM		
PECAN		
PINE		
CEDAR		
MAPLE	A Commence of the Commence of	
POPLAR		
	N. N.	

SURVEY	,
XISTING IRON PIN	•
EW IRON PIN (5/8" REBAR)	0
ALCULATED POINT	◬
ENCHMARK	\(\phi \)

MAGNOLIA

DOGWOOD

MISC. TREE

TREE LINE

	EXISTING	PROPOSED
	OTHER LINE TYPES	•
ROAD CENTERLINE		
PROPERTY LINE		
PROPERTY BOUNDARY		N 61°47'59" E 1413.93
WOOD FENCE		х
BARBED WIRE FENCE		xxx
CHAIN LINK FENCE		
CITY LIMITS		
PHASE LINES		
STREAM		
STREAM BUFFER	-00000000000000000000000000000000000000	
CURB AND GUTTER		
EDGE OF PAVEMENT		
SETBACK		
AIR LINES	A A A	—— А ——
PETRO LINES		——— Р ———
PERMANENT EASEMENT		
TEMPORARY EASEMENT		
RIGHT OF WAY		



PAR
ORGIA
OR: PW-2 REDWINE M

1 INCH LONG PLOTTED FULL SCALE

Project Manager: SAM SERIO, P.E. Drawn By: Checked By: Date: 10/21/2022

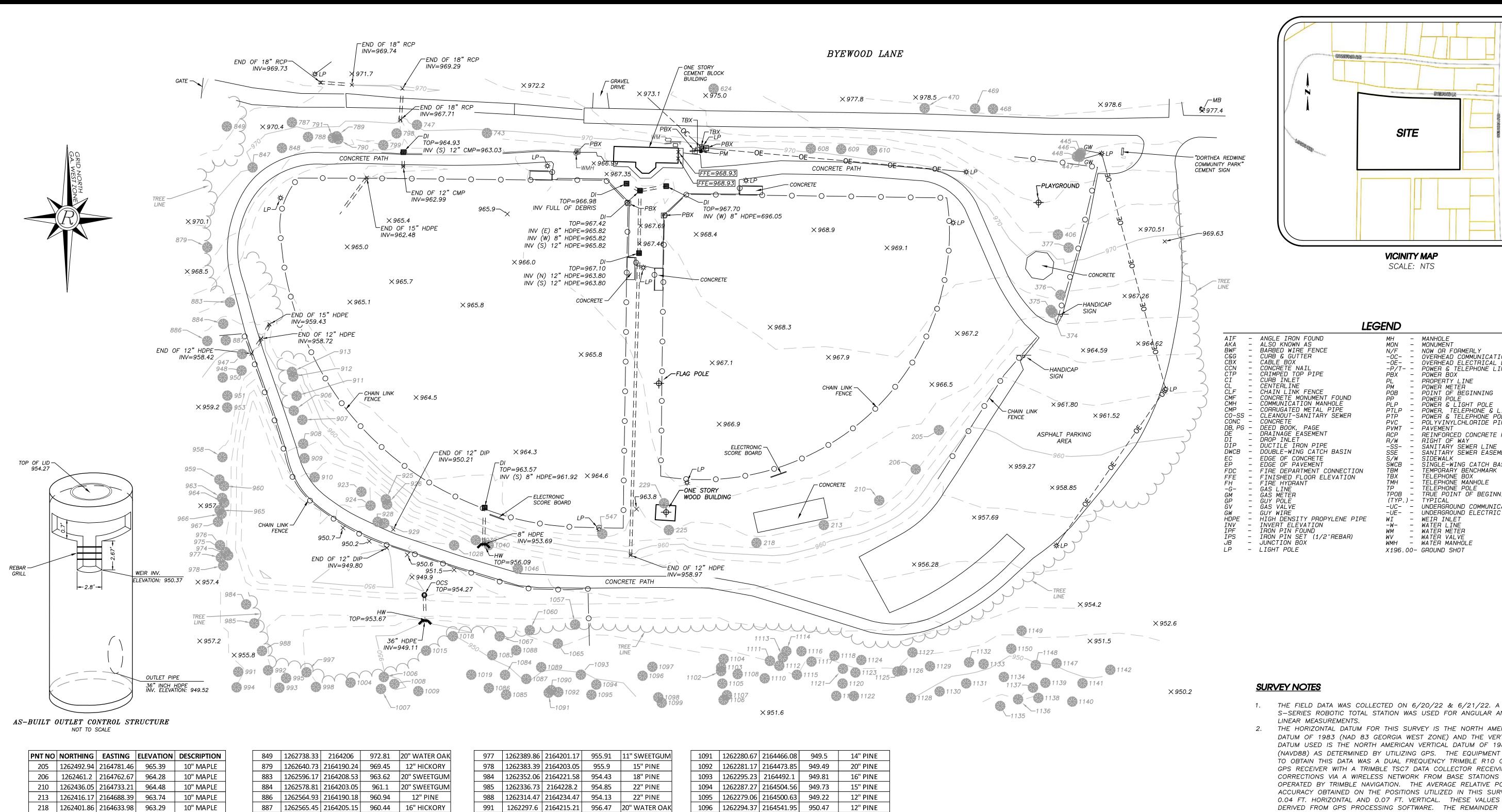
Scale: As Shown

Project No.:

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PNT NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
205	1262492.94	2164781.46	965.39	10" MAPLE
206	1262461.2	2164762.67	964.28	10" MAPLE
210	1262436.05	2164733.21	964.48	10" MAPLE
213	1262416.17	2164688.39	963.74	10" MAPLE
218	1262401.86	2164633.98	963.29	10" MAPLE
225	1262412.13	2164563.19	964.16	10" PINE
229	1262433.77	2164559.28	965.55	18" SYCAMORE
374	1262587.89	2164873.28	966.4	16" WATER OAK
375	1262589.96	2164871.75	966.95	16" WATER OAK
376	1262602.23	2164879.7	967.93	14" WATER OAK
377	1262640.38	2164886.26	971.14	17" WATER OAK
406	1262650.93	2164877.6	971.71	20" WATER OAK
445	1262716.94	2164896.1	976.31	14" SWEETGUM
446	1262715.56	2164895.31	976.47	14" SWEETGUM
447	1262713.71	2164895.16	976.16	12" SWEETGUM
448	1262714.16	2164892.98	976.12	12" SWEETGUM
468	1262752.53	2164825.14	978.73	20" SWEETGUM
469	1262752.7	2164810.68	978.62	20" WATER OAK
470	1262753.1	2164769.89	977.5	10" PECAN
547	1262409.02	2164509.39	964.5	11" PINE
608	1262720.39	2164677.94	970.34	10" WATER OAK
609	1262720	2164702.47	970.76	12" WATER OAK
610	1262719.11	2164727.46	971.28	11" WATER OAK
624	1262768.85	2164599.39	975.03	30" WATER OAK
743	1262732.98	2164416.23	969.1	20" PECAN
747	1262739.6	2164359.67	970.52	12" PECAN
787	1262741.65	2164258.61	970.29	40" WATER OAK
788	1262729.86	2164271.63	969.3	30" WATER OAK
789	1262730.4	2164294.8	969.3	20" WATER OAK
790	1262727.99	2164296.06	969.6	20" WATER OAK
791	1262729.04	2164291.65	969.18	20" WATER OAK
798	1262732.74	2164343.2	968.73	14" SWEETGUM
799	1262723.27	2164332.44	967.98	14" SWEETGUM
847	1262705.19	2164226.79	970.11	16" SWEETGUM

848 | 1262720.93 | 2164250.54 | 969.15 | 16" PINE

849	1262738.33	2164206	972.81	20" WATER OAK
879	1262640.73	2164190.24	969.45	12" HICKORY
883	1262596.17	2164208.53	963.62	20" SWEETGUM
884	1262578.81	2164203.05	961.1	20" SWEETGUM
886	1262564.93	2164190.18	960.94	12" PINE
887	1262565.45	2164205.15	960.44	16" HICKORY
906	1262508.65	2164260.1	957.3	18" SWEETGUM
907	1262501.21	2164266.99	956.96	12" PINE
908	1262481.88	2164267.7	956.2	16" PECAN
909	1262470.18	2164268.72	955.5	16" PECAN
910	1262454.87	2164276.95	953.81	24" POPLAR
911	1262520.58	2164262.39	957.96	16" SWEETGUM
912	1262536.18	2164259.61	958.93	16" SWEETGUM
913	1262539.97	2164258.61	959.84	12" SWEETGUM
923	1262443.12	2164314.71	952.7	20" MAPLE
924	1262431.93	2164322.13	952	16" SWEETGUM
925	1262436.95	2164334.5	952.17	28" POPLAR
926	1262432.77	2164335.53	951.39	12" SWEETGUM
928	1262418.77	2164327.91	951.36	18" SWEETGUM
929	1262417.69	2164333.19	951.45	12" SWEETGUM
947	1262554.41	2164218.32	959.79	12" SWEETGUM
948	1262541.09	2164217.92	959.5	16" PINE
950	1262535.4	2164202.68	959.14	12" SWEETGUM
951	1262520.8	2164206.42	959.5	30" SWEETGUM
953	1262511.2	2164206.28	958.66	18" SWEETGUM
958	1262471.09	2164202.4	957.8	20" WATER OAK
959	1262452.94	2164199.97	957.58	18" SWEETGUM
960	1262447.77	2164203.75	957.37	10" WATER OAK
963	1262438.03	2164202.21	957.35	10" WATER OAK
964	1262434.24	2164203.86	957.35	10" WATER OAK
965	1262428.29	2164200.17	956.99	11" SWEETGUM
966	1262425.24	2164201.73	956.79	16" PINE
967	1262418.79	2164198.88	957.33	24" PINE
974	1262391.59	2164207.09	955.75	18" PINE
975	1262394.39	2164204.89	956.13	16" PINE
976	1262399.92	2164200.51	957.06	28" PINE

977	1262389.86	2164201.17	955.91	11" SWEETGUM
978	1262383.39	2164203.05	955.9	15" PINE
984	1262352.06	2164221.58	954.43	18" PINE
985	1262336.73	2164228.2	954.85	22" PINE
988	1262314.47	2164234.47	954.13	22" PINE
991	1262297.6	2164215.21	956.47	20" WATER OAK
992	1262298.81	2164239.34	954.18	12" WATER OAK
993	1262284.69	2164248.46	953.49	22" WATER OAK
994	1262285	2164213.89	955.9	14" PINE
995	1262292.49	2164253.88	953.25	18" PINE
997	1262297.18	2164270.39	952.09	18" PINE
998	1262285.31	2164278	952.47	24" WATER OAK
1004	1262288.82	2164305.98	950.36	18" WATER OAK
1006	1262293.34	2164332.85	950.54	26" WATER OAK
1007	1262283.7	2164330.6	950.22	18" SWEETGUM
1008	1262287.8	2164341.44	950.35	18" SWEETGUM
1009	1262281.98	2164360.75	949.62	18" SWEETGUM
1015	1262314.66	2164367.03	949.24	12" PECAN
1018	1262326.35	2164388.69	949.93	24" PINE
1019	1262295.24	2164403.52	949.15	20" PINE
1028	1262399.78	2164389.67	952.03	15" SWEETGUM
1039	1262404.02	2164407.11	955.65	16" SYCAMORE
1040	1262399.95	2164417.62	954.24	12" SWEETGUM
1046	1262380.93	2164441.18	954.15	12" SWEETGUM
1057	1262335.81	2164487.45	952.81	20" PINE
1060	1262331.2	2164450.79	952.46	24" PINE
1065	1262320.37	2164473.45	952.22	26" PINE
1067	1262326.35	2164426.47	951.34	16" PINE
1083	1262311.07	2164420.5	950.12	12" POPLAR
1084	1262295.03	2164430.84	949.73	16" PINE
1085	1262279.06	2164431.71	948.98	16" PINE
1086	1262284.4	2164417.73	949.11	20" PINE
1087	1262291.82	2164448	950.09	16" PINE
1088	1262315	2164439.9	950.55	10" POPLAR
1089	1262301.33	2164460.03	950.09	12" SWEETGUM
1090	1262282.74	2164468.23	949.52	14" PINE

1091	1262280.67	2164466.08	949.5	14" PINE
1092	1262281.17	2164473.85	949.49	20" PINE
1093	1262295.23	2164492.1	949.81	16" PINE
1094	1262287.27	2164504.56	949.73	15" PINE
1095	1262279.06	2164500.63	949.22	12" PINE
1096	1262294.37	2164541.95	950.47	12" PINE
1097	1262301.62	2164549.89	950.64	14" PINE
1098	1262276.93	2164554.67	950.39	12" SWEETGUM
1099	1262272.56	2164557.45	950.42	20" PINE
1102	1262298.15	2164605.43	951.42	18" PINE
1103	1262301.23	2164605.43	951.36	14" POPLAR
1104	1262307.99	2164607.46	951.33	30" PINE
1105	1262288.09	2164606.41	951.3	22" PINE
1106	1262274.88	2164607.41	951.53	22" PINE
1107	1262278.69	2164610.15	951.41	12" PINE
1108	1262295.71	2164618.78	951.36	10" PINE
1110	1262292.32	2164640.65	951.46	10" PINE
1111	1262306.41	2164644.88	952.02	12" PINE
1112	1262302.49	2164652.45	952.12	24" PINE
1113	1262309.31	2164655.3	952.32	10" WATER OAK
1114	1262314.23	2164658.15	952.79	15" PINE
1115	1262295.15	2164666.68	952.04	17" PINE
1116	1262314.21	2164670.33	952.6	12" SWEETGUM
1117	1262305.88	2164678.47	951.63	10" PINE
1118	1262310.64	2164697.02	952.26	12" PINE
1119	1262278.12	2164698.5	951.43	12" SWEETGUM
1120	1262288.1	2164703.57	951.39	12" SWEETGUM
1121	1262300.04	2164703.84	951.78	12" SWEETGUM
1122	1262277.97	2164712.72	951.75	20" PINE
1123	1262296.98	2164713.97	951.79	10" PINE
1124	1262307.11	2164718.73	952.48	20" PINE
1125	1262297.87	2164747.91	951.8	20" PINE
1126	1262298.58	2164751.81	951.37	10" PINE
1127	1262313.28	2164760.02	952.1	12" SYCAMORE
1128	1262276.47	2164758.83	950.06	12" SWEETGUM
1129	1262302.1	2164774.23	950.91	14" SWEETGUM

1130	1262281.71	2164782	949.65	18" PINE
1131	1262288.22	2164803.48	949.38	14" MAPLE
1132	1262305.22	2164805.79	950.77	14" MAPLE
1133	1262303.83	2164817.56	950.46	24" PINE
1134	1262293.41	2164833.91	949	20" MAPLE
1135	1262269.96	2164830.95	947.34	14" POPLAR
1136	1262275.38	2164845.38	947.98	14" POPLAR
1137	1262284.82	2164857.43	947.9	16" SWEETGUM
1138	1262276.43	2164861.79	948.03	18" SWEETGUM
1139	1262288.7	2164867.46	948.75	26" PINE
1140	1262273.52	2164889.2	948.45	18" SWEETGUM
1141	1262288.34	2164897.46	949.74	10" MAPLE
1142	1262299.2	2164919.97	950.41	26" PINE
1147	1262304.43	2164876.54	950.16	18" PINE
1148	1262302.98	2164859.66	949.79	24" SWEETGUM
1149	1262330.81	2164848.3	952.51	14" POPLAR
1150	1262316.22	2164839.93	950.34	10" SWEETGUM

THIS PLAT IS NOT FOR RECORDING. THIS PLAT DOES NOT CONTAIN THE SURVEYOR'S CERTIFICATION REQUIRED BY O.C.G.A. SECTION 15-6-16 FOR RECORDING. THIS SURVEY COMPLIES WITH ALL OTHER REQUIREMENTS OF THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.

1. THE FIELD DATA WAS COLLECTED ON 6/20/22 & 6/21/22. A TRIMBLE S-SERIES ROBOTIC TOTAL STATION WAS USED FOR ANGULAR AND

MONUMENT

NOW OR FORMERLY

PROPERTY LINE

POINT OF BEGINNING

POLYVINYLCHLORIDE PIPE PAVEMENT

REINFORCED CONCRETE PIPE RIGHT OF WAY SANITARY SEWER LINE SANITARY SEWER EASEMENT

SINGLE-WING CATCH BASIN

EMPORARY BENCHMARK

TELEPHONE POLE
TRUE POINT OF BEGINNING

- UNDERGROUND COMMUNICATION

TELEPHONE BOX ELEPHONE MANHOLE

POWER METER

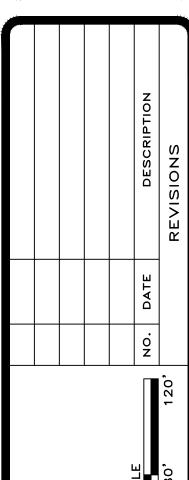
SIDEWALK

NOW OH FURMERLY OVERHEAD COMMUNICATION LINE OVERHEAD ELECTRICAL LINE POWER & TELEPHONE LINE POWER BOX

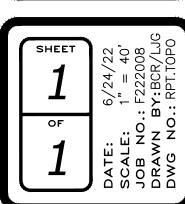
POWER POLE
POWER & LIGHT POLE
POWER, TELEPHONE & LIGHT POLE
POWER & TELEPHONE POLE

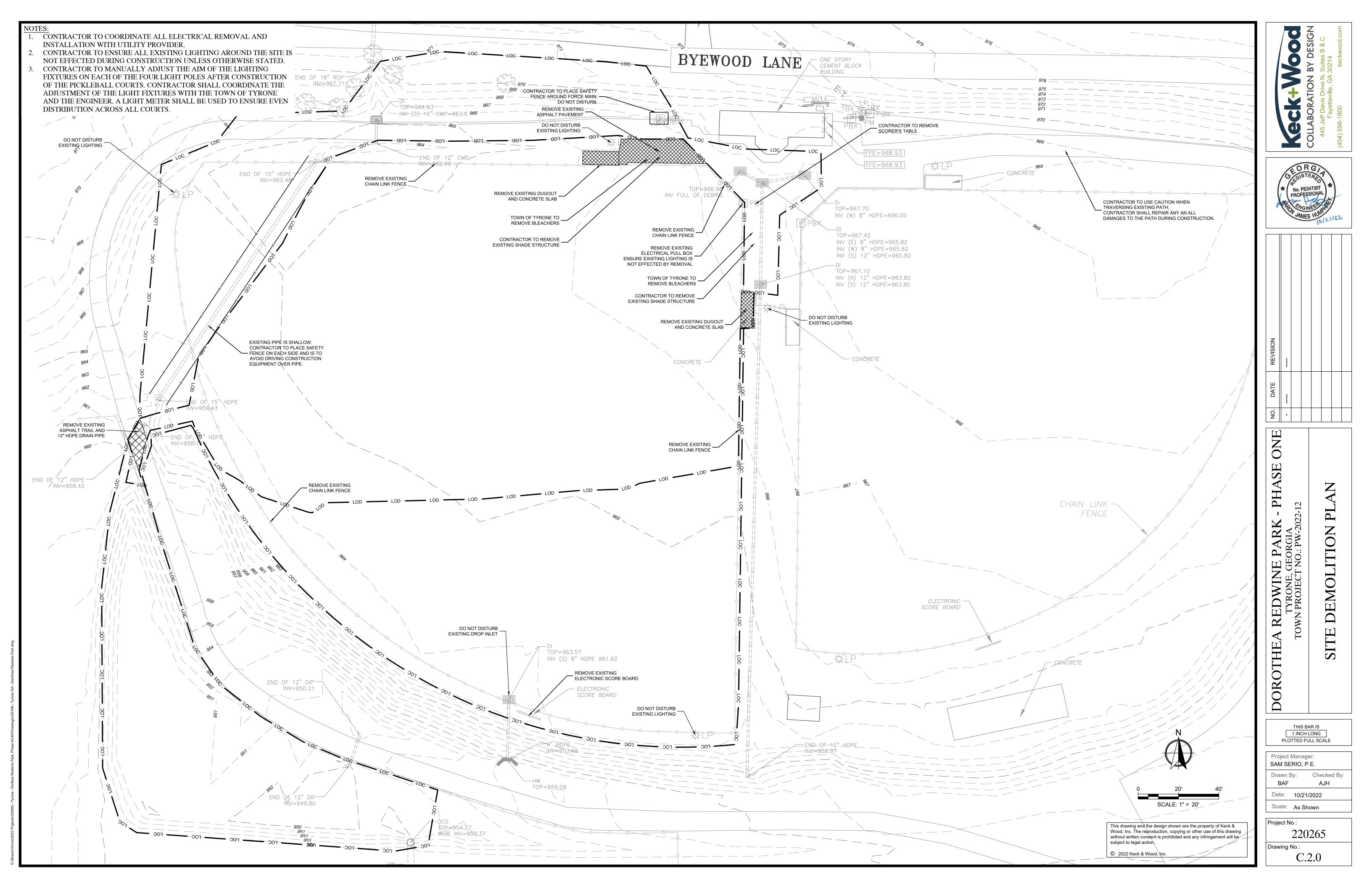
- THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983 (NAD 83 GEORGIA WEST ZONE) AND THE VERTICAL DATUM USED IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS DETERMINED BY UTILIZING GPS. THE EQUIPMENT USED TO OBTAIN THIS DATA WAS A DUAL FREQUENCY TRIMBLE R10 GNSS GPS RECEIVER WITH A TRIMBLE TSC7 DATA COLLECTOR RECEIVING RTK CORRECTIONS VIA A WIRELESS NETWORK FROM BASE STATIONS OPERATED BY TRIMBLE NAVIGATION. THE AVERAGE RELATIVE POSITIONAL ACCURACY OBTAINED ON THE POSITIONS UTILIZED IN THIS SURVEY WAS 0.04 FT. HORIZONTAL AND 0.07 FT. VERTICAL. THESE VALUES WERE DERIVED FROM GPS PROCESSING SOFTWARE. THE REMAINDER OF THE FIELD WORK WAS PERFORMED WITH CONVENTIONAL EQUIPMENT AS DESCRIBED ABOVE.
- THE UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM ABOVE GROUND, VISIBLE EVIDENCE. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- 4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE COMMITMENT; THEREFORE EXCEPTION IS MADE HEREIN TO ANY EASEMENTS, RESERVATIONS, RIGHTS OF WAY AND RESTRICTIONS OF RECORD, WHICH MAY EXIST. FURTHERMORE, THIS PROPERTY MAY BE SUBJECT TO EASEMENTS, RESERVATIONS, RIGHTS OF WAY, OR RESTRICTIONS, WHICH ARE NOT RECORDED OR NOT DISCLOSED BY THE TITLE COMMITMENT OR OTHERWISE UNKNOWN TO THE SURVEYOR; THEREFORE EXCEPTION IS TAKEN TO ANY SUCH ITEMS.
- THIS PROPERTY MAY OR MAY NOT CONTAIN WETLAND AREAS. NO EFFORTS HAVE BEEN MADE BY THE SURVEYOR TO IDENTIFY OR LOCATE ANY WETLAND AREAS ON THIS PROPERTY. A QUALIFIED WETLAND SPECIALIST PRIOR TO ANY LAND DISTURBANCE SHOULD PERFORM
- WETLAND IDENTIFICATION AND DELINEATION. NO PORTION OF THIS PROPERTY IS LOCATED IN A FLOOD HAZARD ZONE PER F.E.M.A. INSURANCE RATE MAP OF TOWN OF TYRONE AND FAYETTE COUNTY, GEORGIA. MAP NO. 13113C0076E, REVISED DATE
- SEPTEMBER 26, 2008. THE SURVEY COMPLIES WITH BOTH THE RULES OF GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 15-6-67 AS AMENDED BY HB76 (2017), IN THAT WHERE A CONFLICT EXISTS BETWEEN THOSE TWO SETS OF SPECIFICATIONS, THE REQUIREMENTS OF
- LAW PREVAIL. THIS PLAT IS FOR THE EXCLUSIVE USE OF THE ENTITIES SHOWN
- HEREON; ANY USE BY THIRD PARTIES IS AT THEIR OWN RISK. ALL DISTANCES AS SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S.
- SURVEY FEET (39.37 INCHES = 1 METER).10. CONTOUR INTERVAL IS 2 FEET.

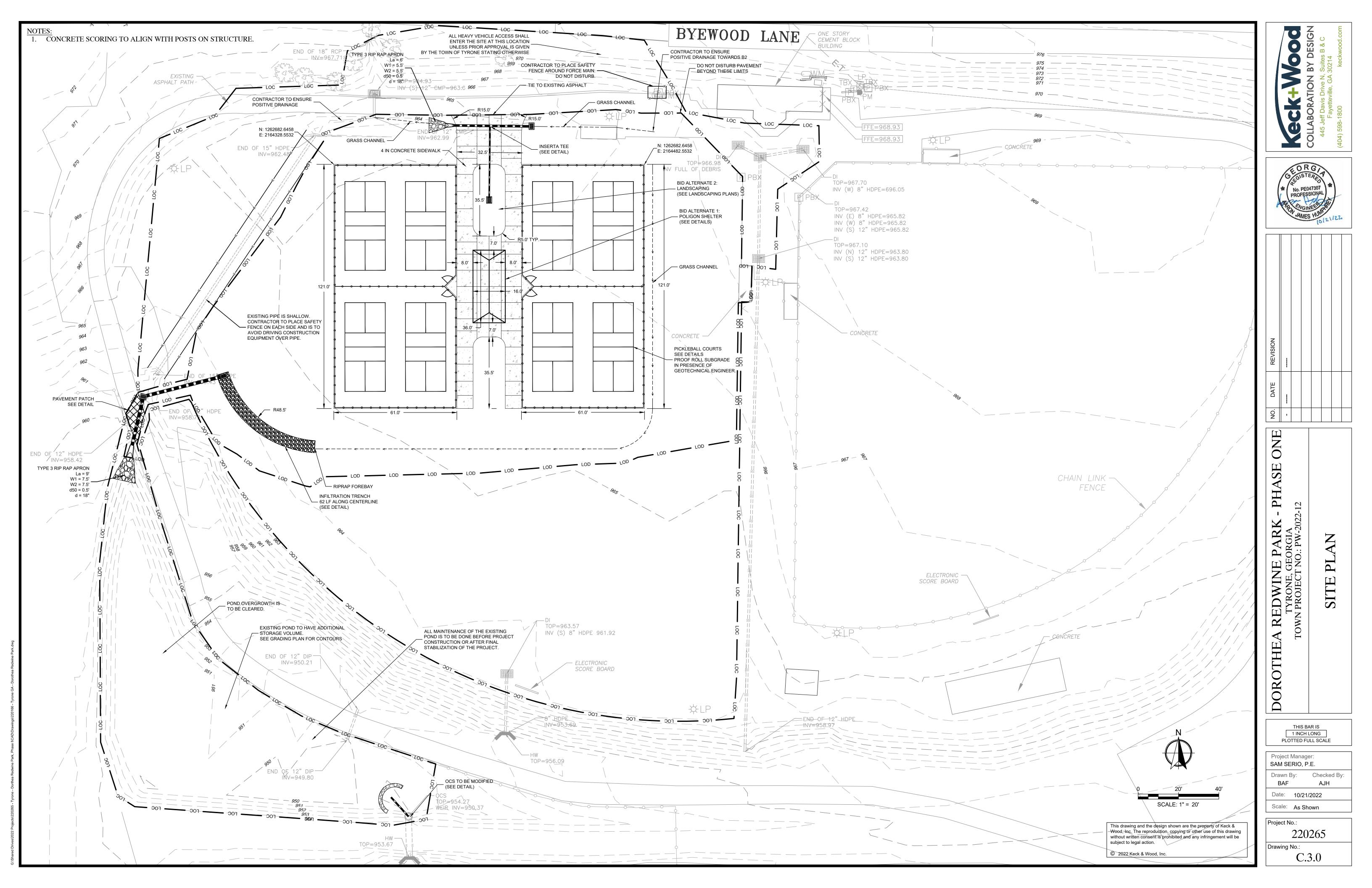


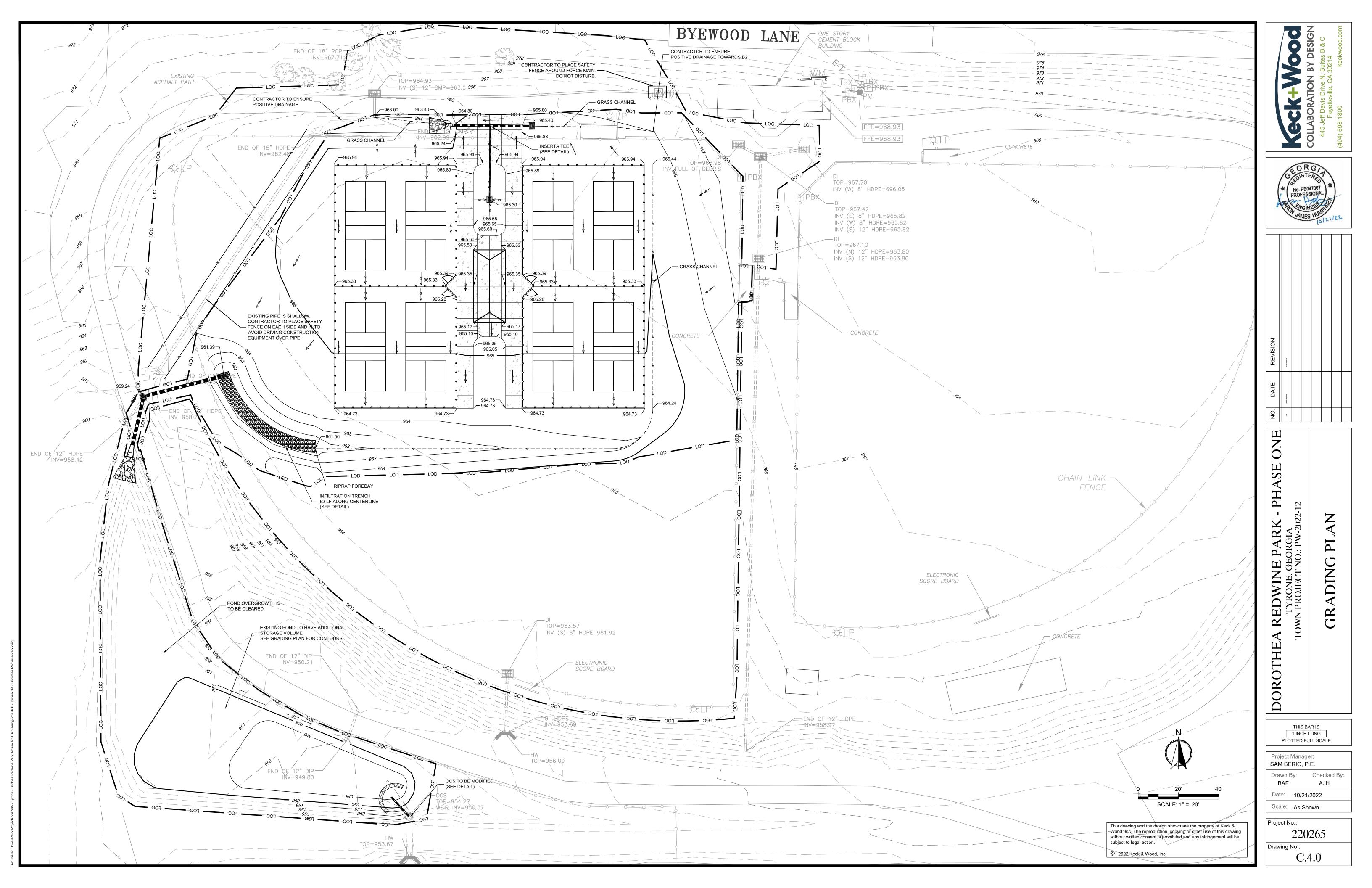


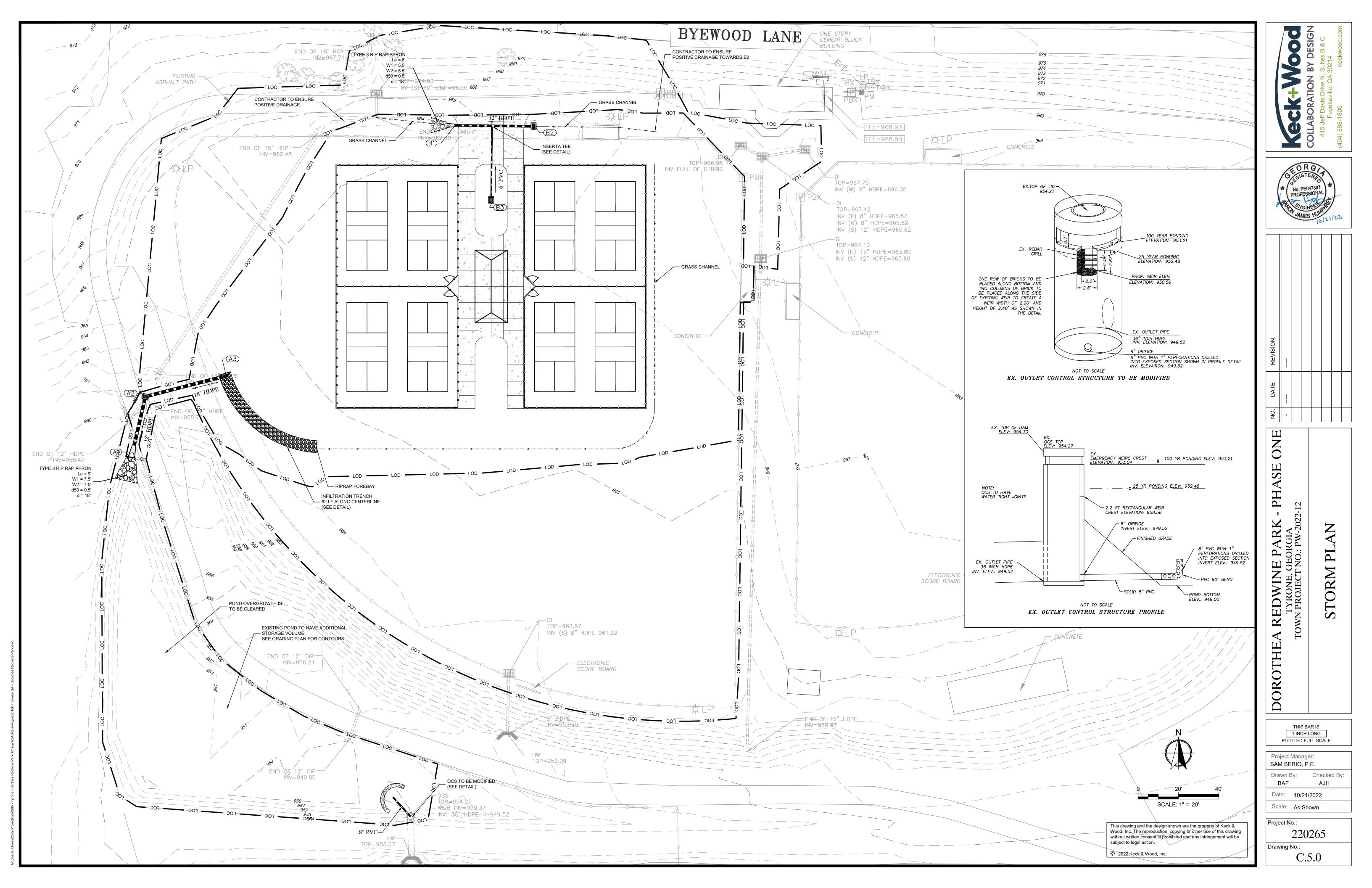


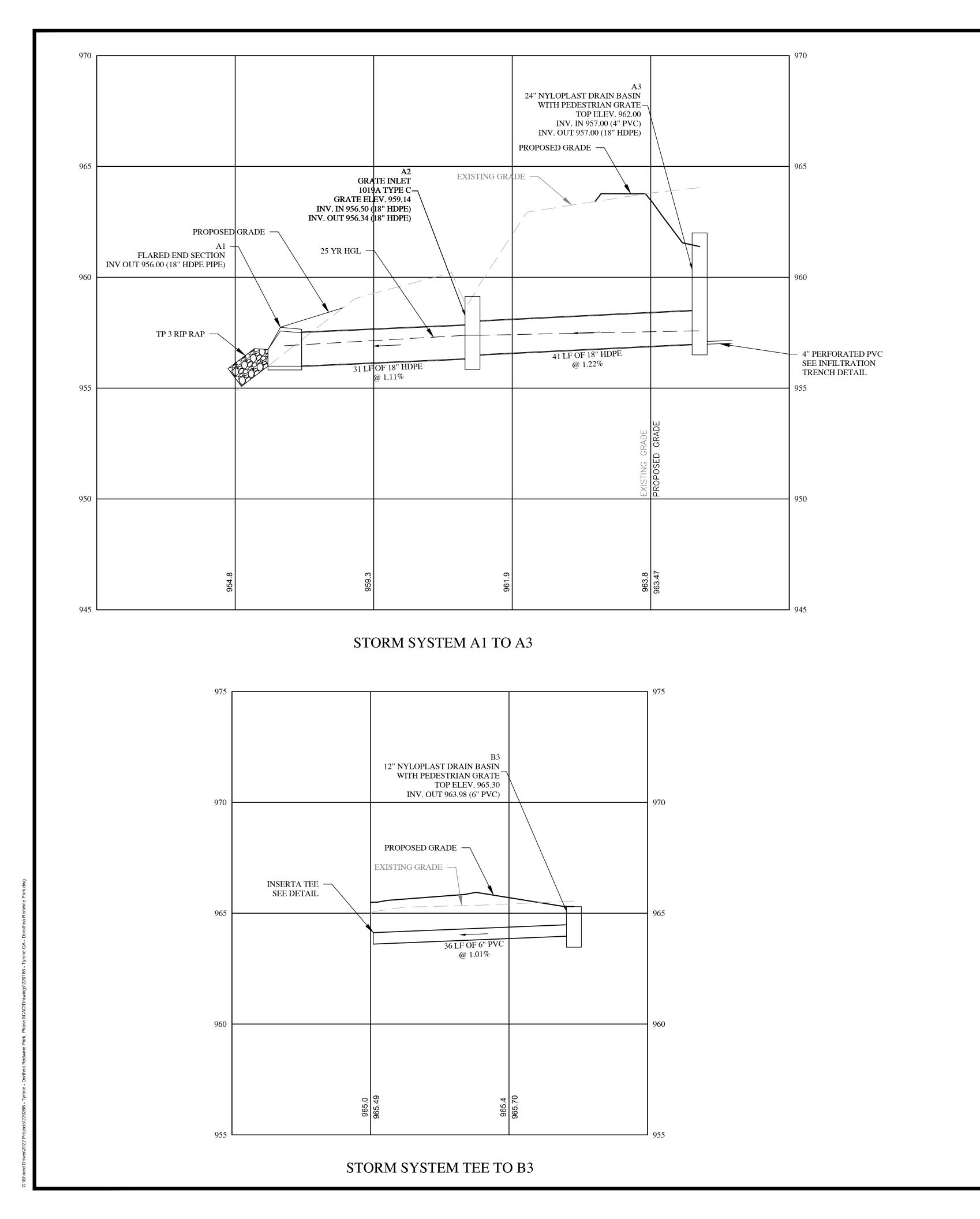


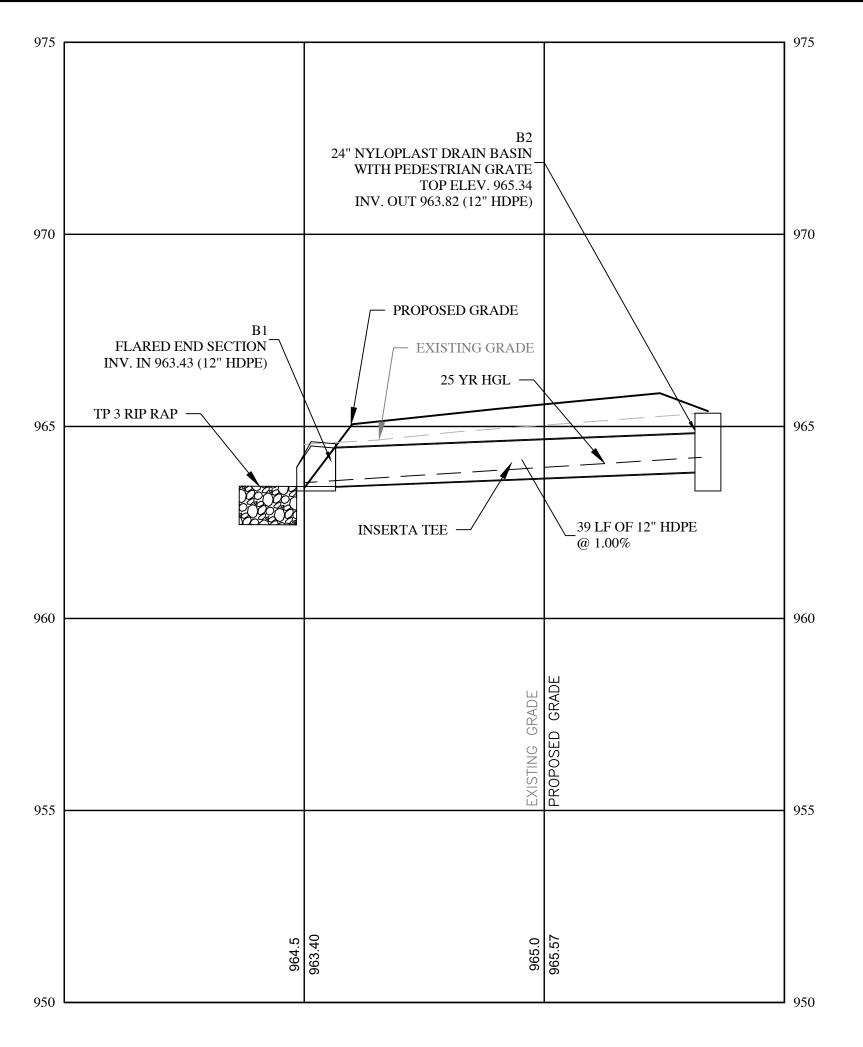






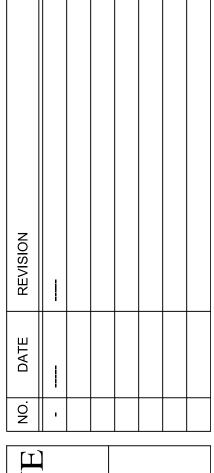






STORM SYSTEM B1 TO B2





PROFILES

1 INCH LONG PLOTTED FULL SCALE

Project Manager:

SAM SERIO, P.E. Drawn By: Checked By:

Date: 10/21/2022

Scale: As Shown

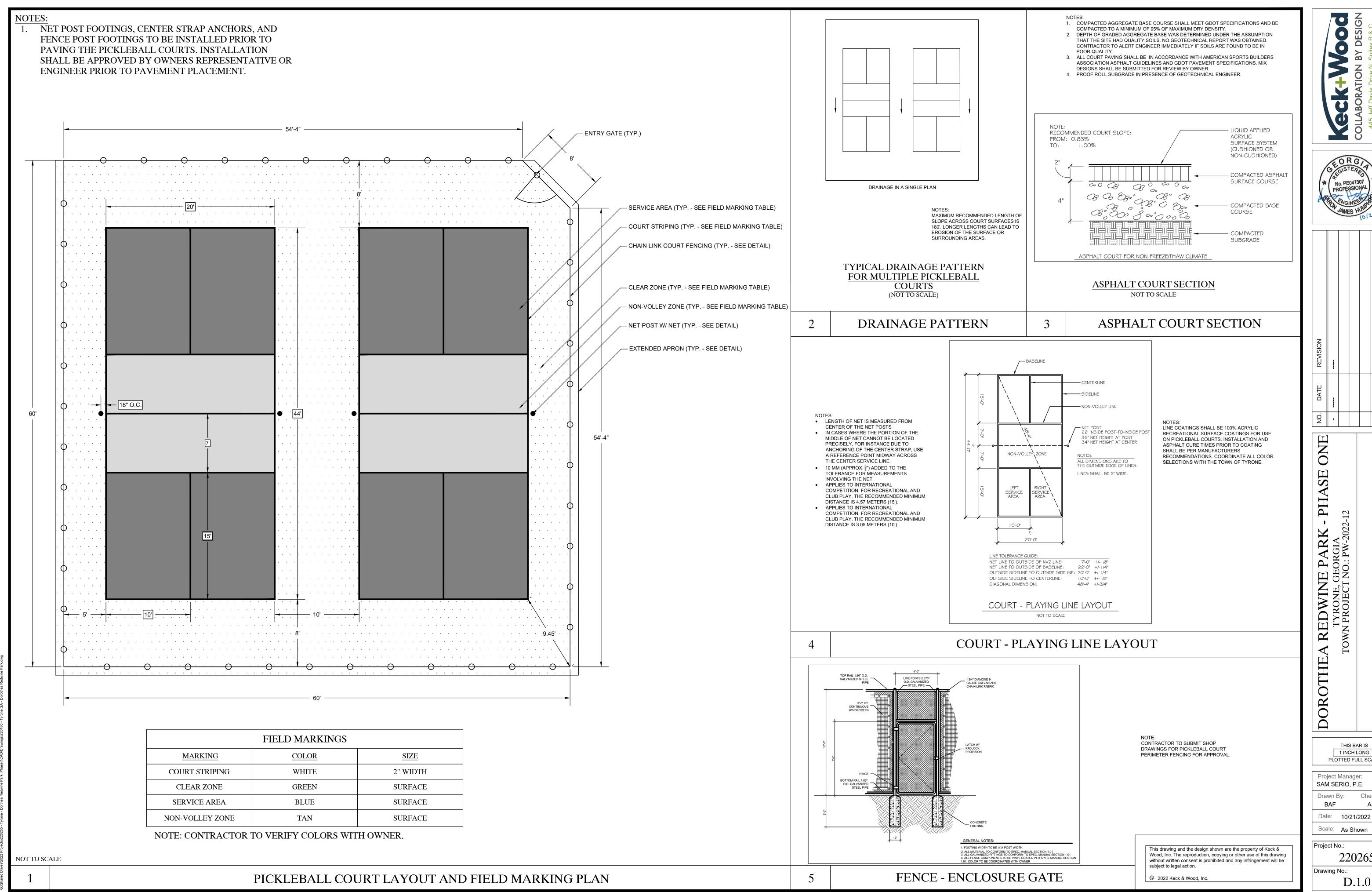
Project No.:

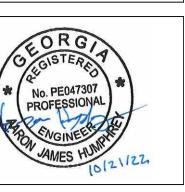
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Drawing No.:

C.5.1





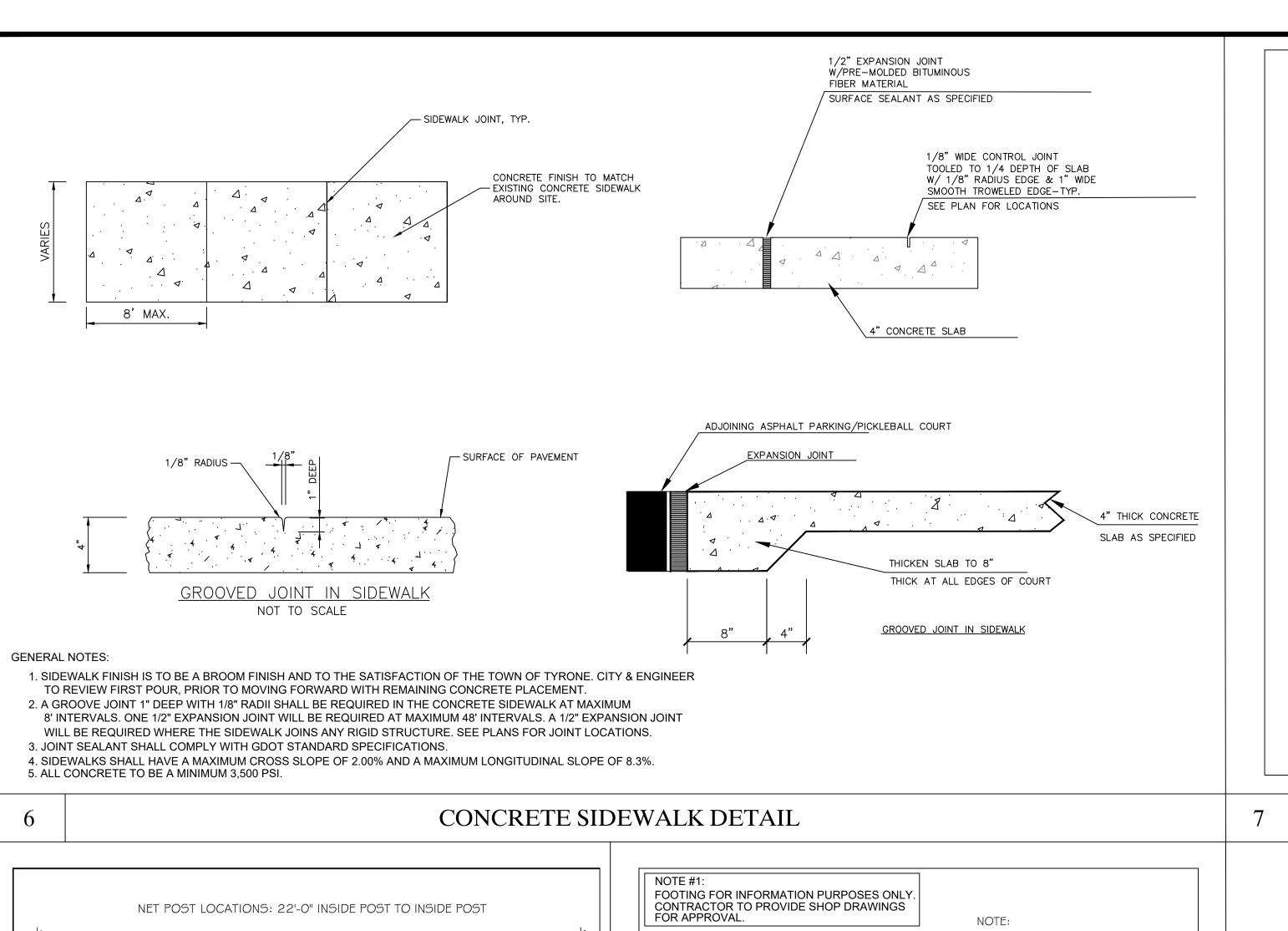
1 INCH LONG PLOTTED FULL SCALE

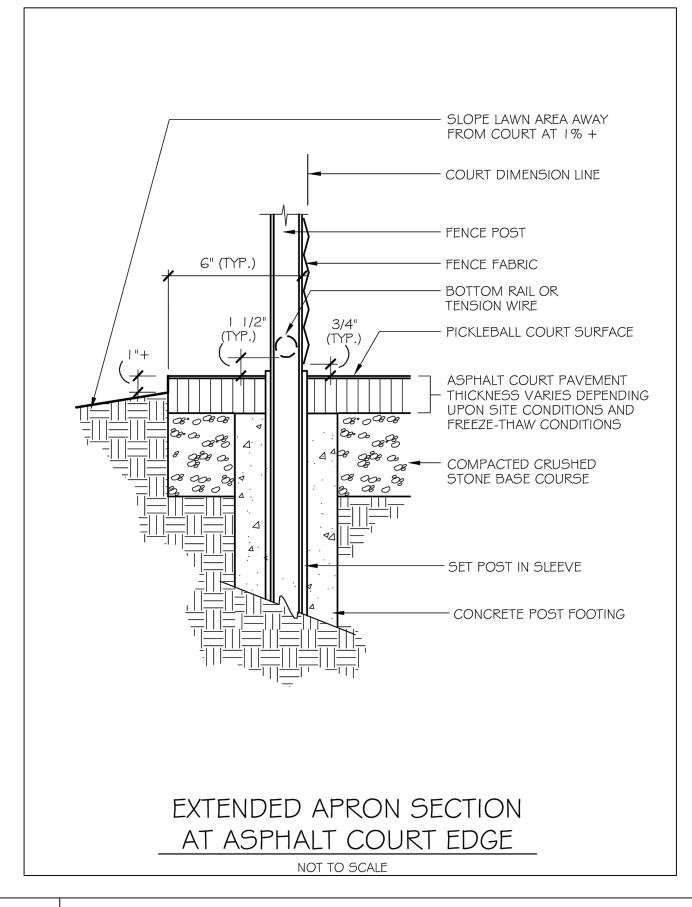
SAM SERIO, P.E.

Checked By:

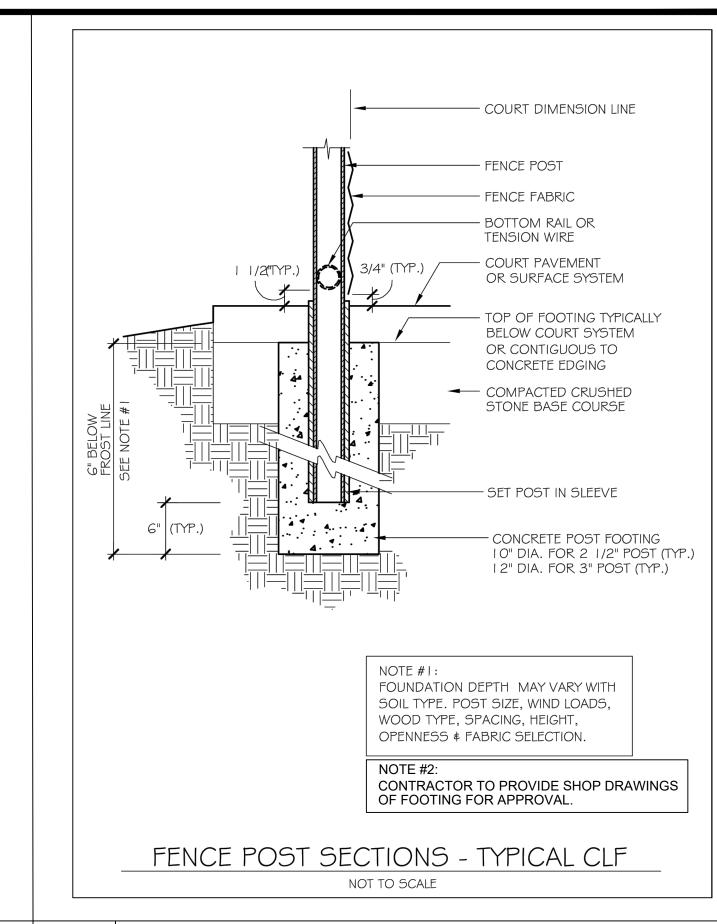
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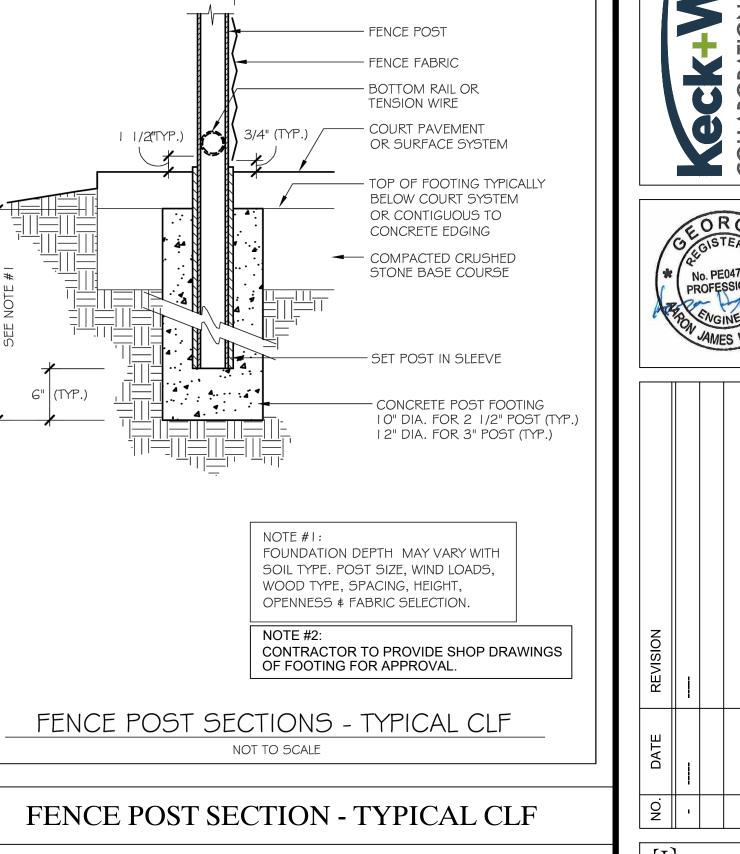
220265 D.1.0

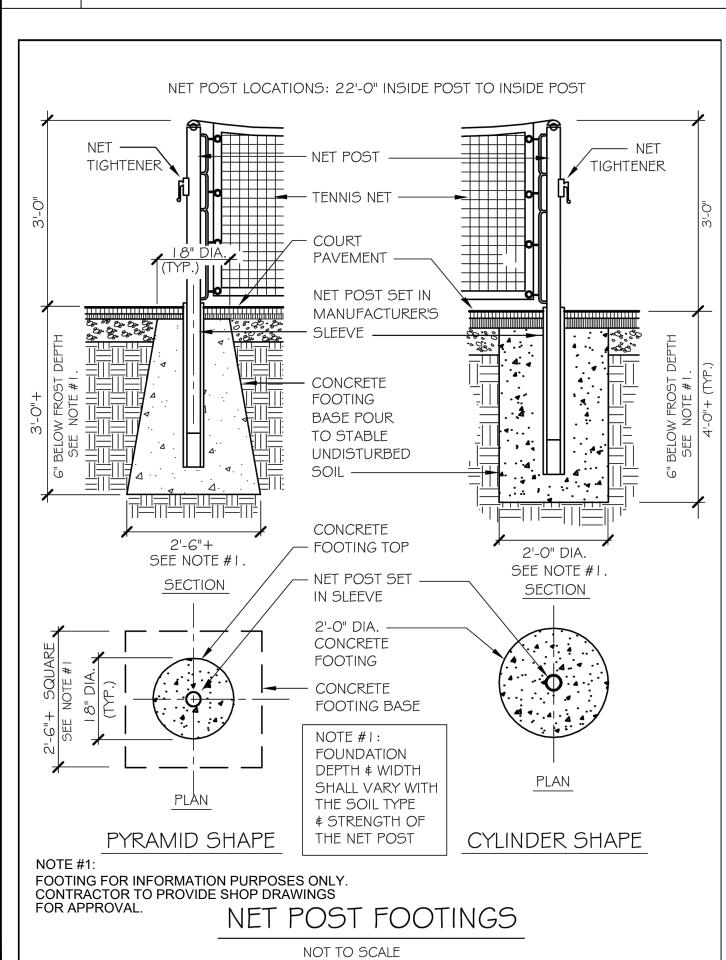


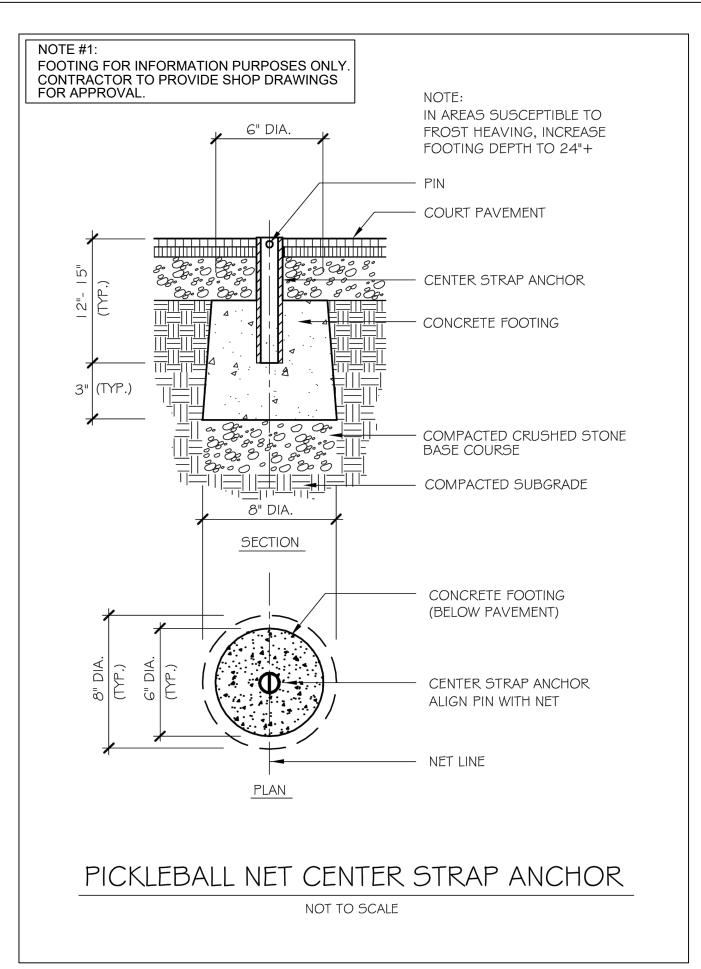


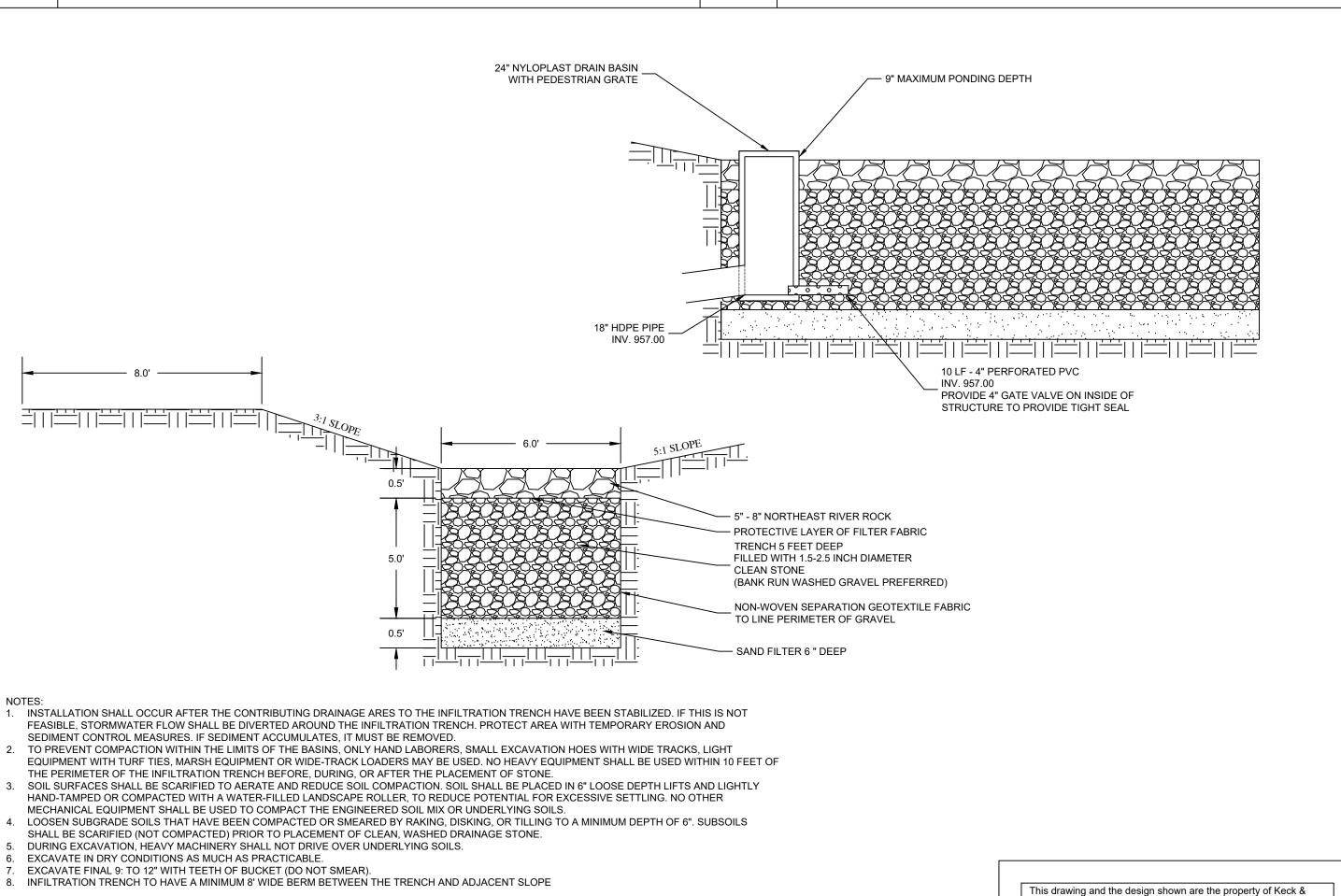
EXTENDED APRON SECTION - ASPHALT COURT



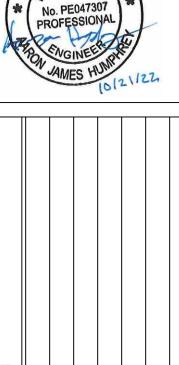








No. PE047307 1 INCH LONG PLOTTED FULL SCALE SAM SERIO, P.E. Checked By:



Date: 10/21/2022

Scale: As Shown

220265 D.2.0

INFILTRATION TRENCH

PICKLEBALL NET CENTER STRAP ANCHOR

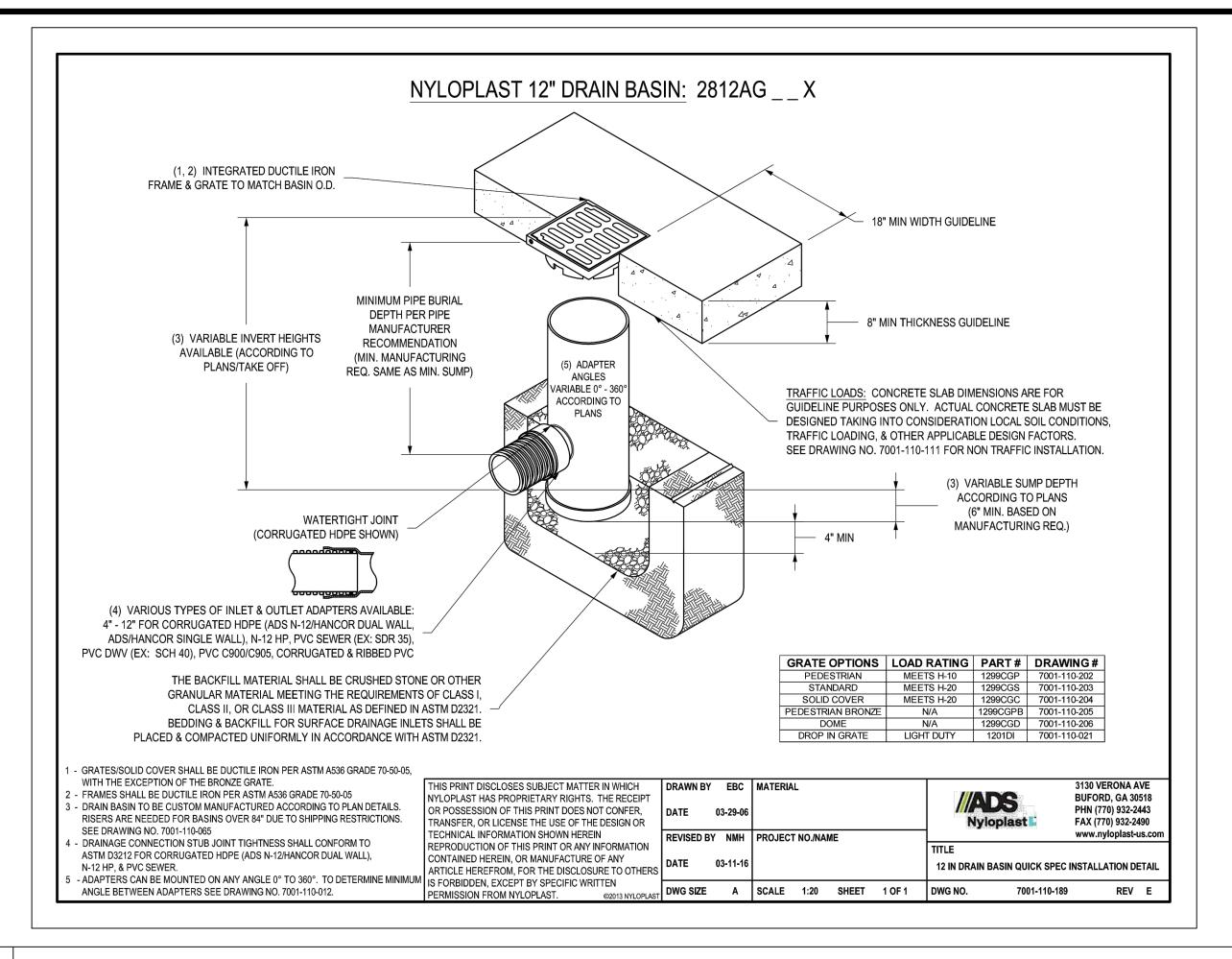
PICKLEBALL NET POST FOOTINGS

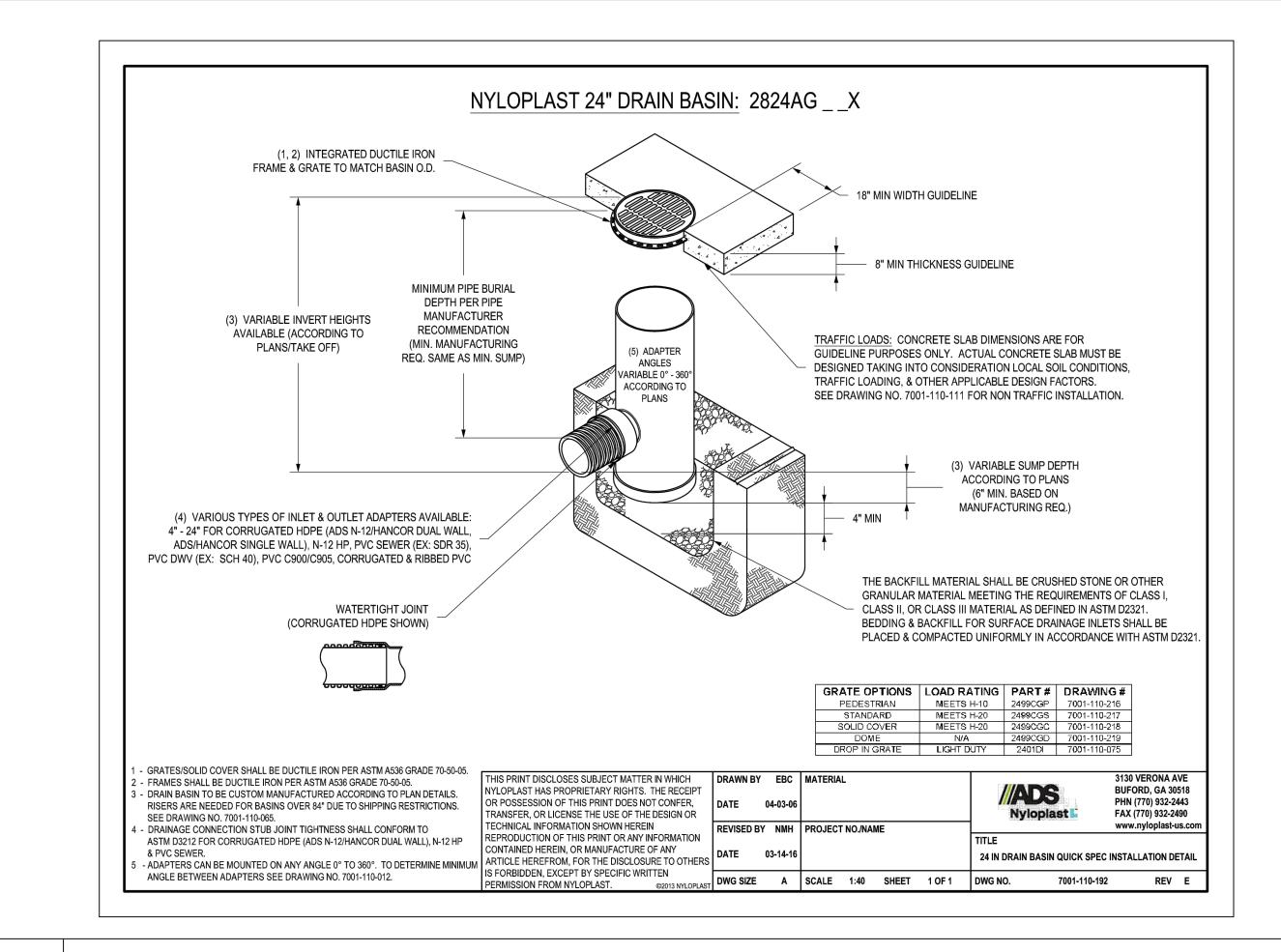
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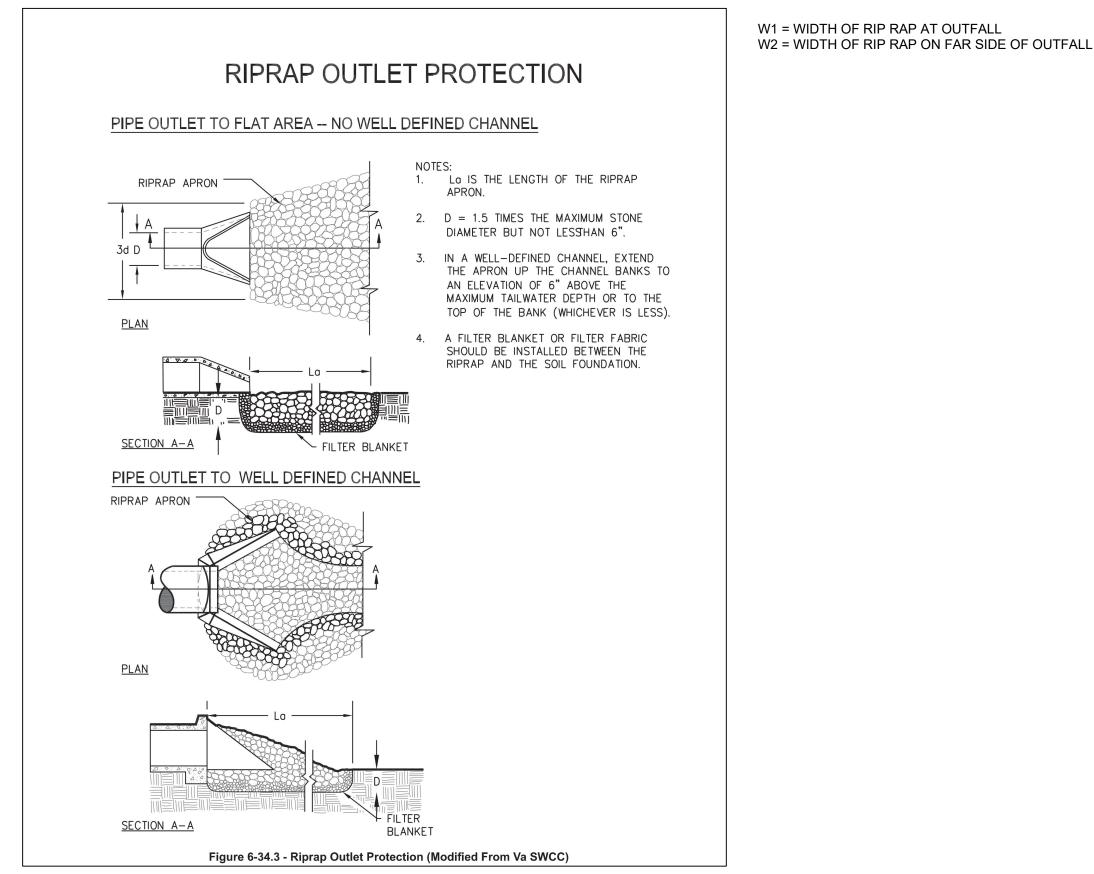
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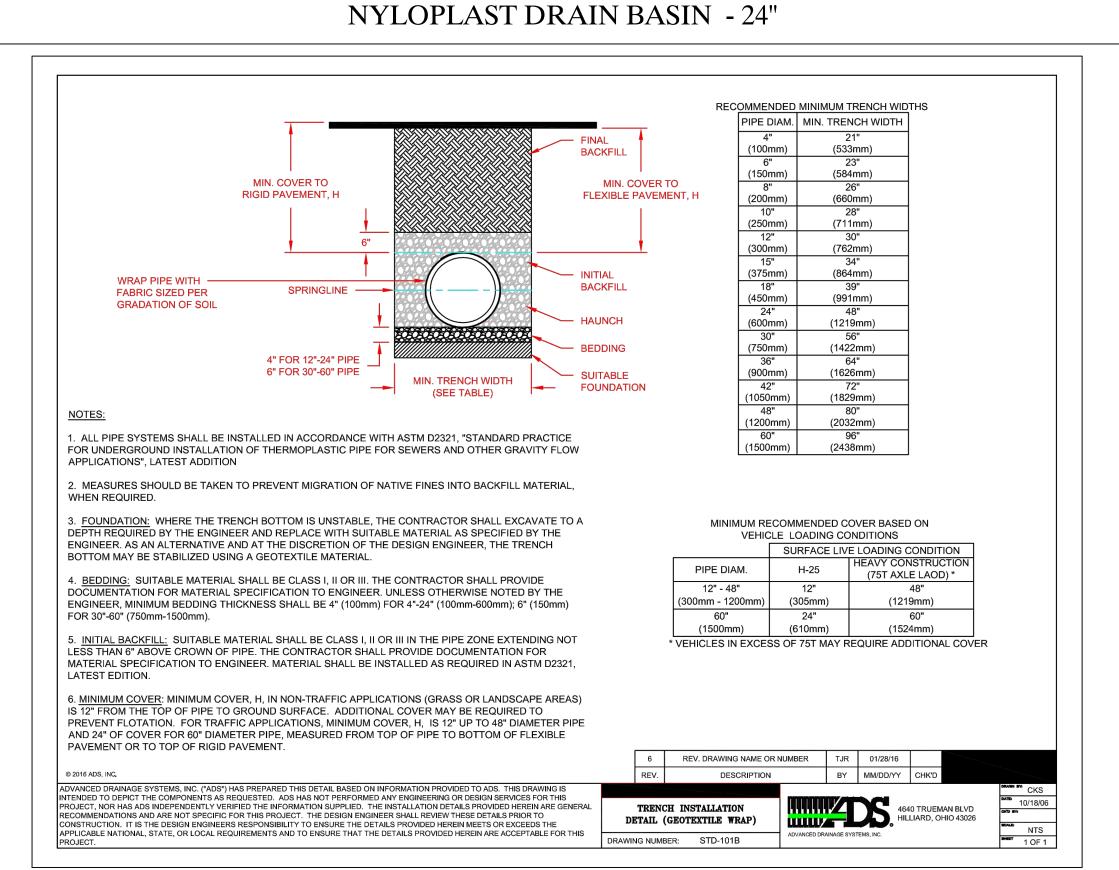
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NYLOPLAST DRAIN BASIN - 12"





GENERAL NOTES:

- 1. ALL HDPE PIPE TO BE DUAL WALL WITH SMOOTH INTERIOR.
- 2. ALL HDPE PIPE TO BE ADS (OR APPROVED EQUAL).
- 3. ALL HDPE PIPE TO BE SOIL TIGHT.
- 4. ALL PIPE BEDDING AND HAUNCHING TO MEET MANUFACTURER STANDARDS

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Project No.:

Project Manager: SAM SERIO, P.E. Drawn By: Checked By: AJH

1 INCH LONG

PLOTTED FULL SCALE

Date: 10/21/2022

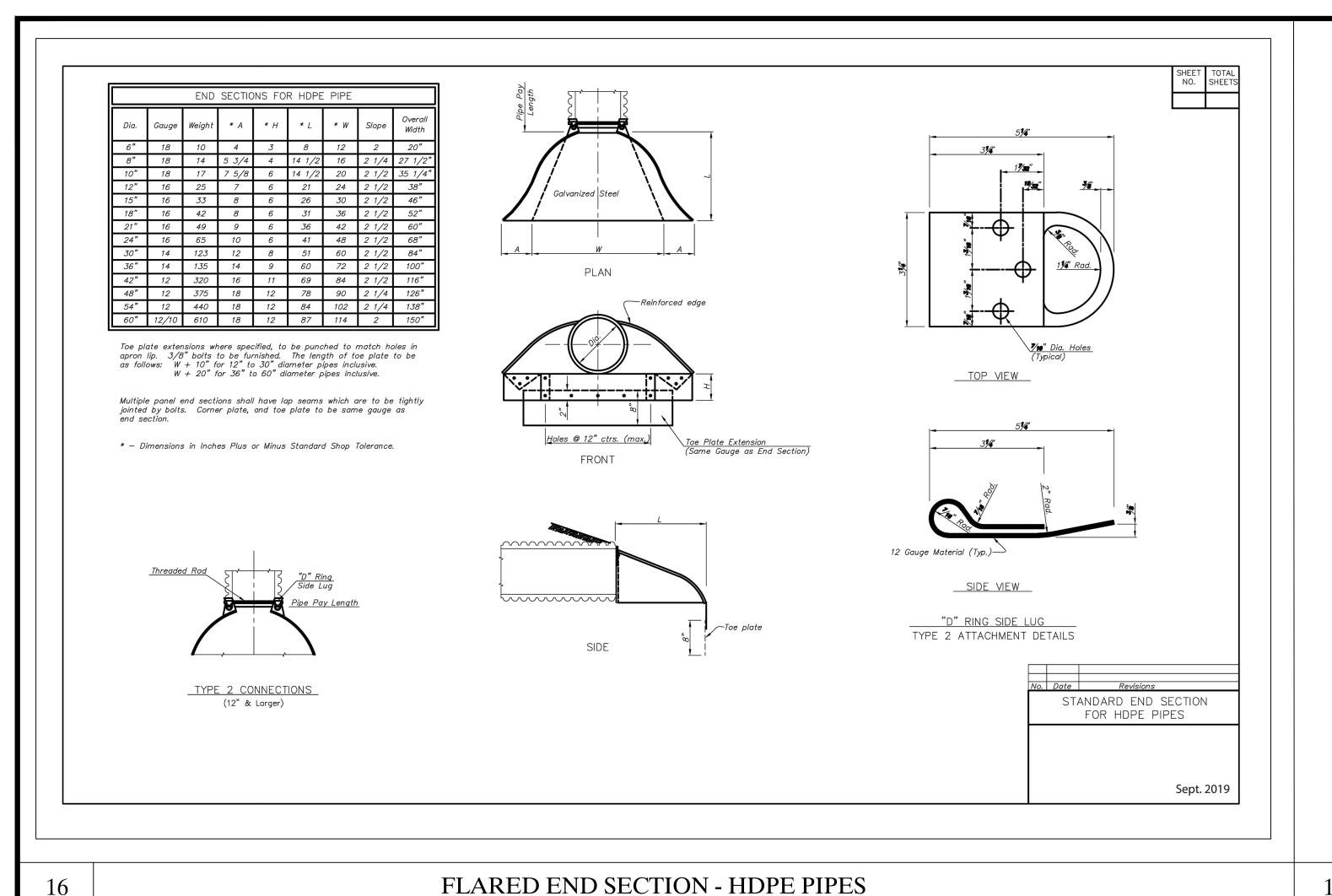
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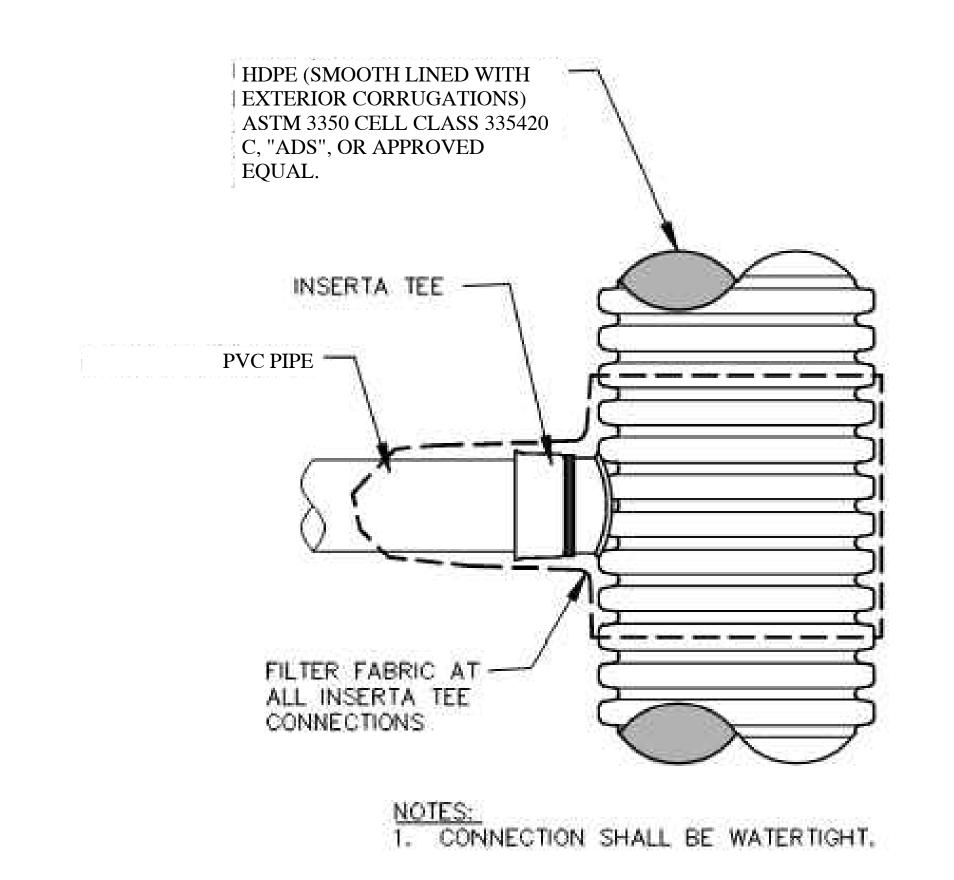
Drawing No.:

D.3.0

OUTLET PROTECTION

PIPE BEDDING AND INSTALLATION DETAIL



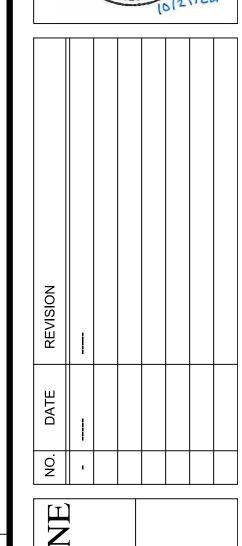


PROJECT NUMBER SHEET TOTAL SHEETS STORM DRAIN AND UTILITY INSTALLATION BY OPEN CUT - GENERAL REMOVE ADDITIONAL PAVEMENT ON EACH SIDE OF TRENCH TO 12* MIN. OR TO VISIBLE OVERBREAK WHICHEVER IS GREATER. TACK COAT REQUIRED
WITH ASPHALT SURFACE
TOP 2' TO BE REPLACED WITH SAME *
TYPE MATERIAL AS EXISTING SURFACE PAVEMENT TO BE SAWED OR CUT AS DIRECTED BY THE ENGINEER. EXISTING SURFACE COURSE - EXISTING PAVEMENT SECTION EXISTING BASE, SUBBASE, ETC. EXISTING CURB SUBBASE, SUBGRADE, ETC. TYPICAL I2" EACH SIDE FOR PIPE CULVERT
9" EACH SIDE FOR UTILITY LINE, SEE NOTE 3. 0 STAGE 2 STAGE 3 STAGE I STORM DRAIN AND UTILITY INSTALLATION BY OPEN CUT ACROSS P.C. CONCRETE PAVING I. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO. 8' MIN. EDGE OF TRENCH PAVEMENT CUT EXISTING PAVEMENT JOINT-USED.)PAYMENT FOR PIPE CULVERT OR UTILITY INSTALLATION SHALL INCLUDE REPLACING IN KIND ANY PORTIONS OF SIDEWALK, CURB, CURB & GUTTER, MEDIAN PAVING, DRIVEWAYS, ETC., WHICH ARE DISTURBED DUE TO THE INSTALLATION. NORMAL CROSSING WHERE PIPE IS REMOVED, BUT NOT REPLACED, PAYMENT FOR PIPE REMOVAL INCLUDES ALL ITEMS DESCRIBED IN GENERAL. NOTE 2., WITH ALL OTHER NOTES AND DETAILS ALSO BEING APPLICABLE. ALL PAVEMENT JOINTS ARE TO BE RE-ESTABLISHED. CLASS 'A' CONC., CONCRETE PATCH, 8 FT. MIN. WIDTH DOWELS AND TIE-BARS ARE TO BE REPLACED. 6' MIN. / 6' MIN. | NUIE: THIS STANDARD IS FOR USE WHERE PERMANENT PAYEMENT PATCHING IS REQUIRED, TEMPORARY PATCHING, IF REQUIRED, SHALL BE ACCORDING TO OTHER DETAILS, SPECIFICATIONS, AND/OR AS DIRECTED BY THE ENGINEER. DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA STANDARD SEE NOTE 3 PAVEMENT PATCHING DETAILS (STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT)

INSERTA TEE

CECK+MOOC OLLABORATION BY DESIGN 445 Jeff Davis Drive N, Suites B & C Fayetteville, GA 30214 Neckwood.com





OOROTHEA REDWINE PARK - PHASE C
TYRONE, GEORGIA
TOWN PROJECT NO.: PW-2022-12

ONSTRI

THIS BAR IS

1 INCH LONG

PLOTTED FULL SCALE

Project Manager: SAM SERIO, P.E.

SAM SERIO, P.E.

Drawn By: Checked By:
BAF AJH

Date: 10/21/2022

Scale: As Shown

Project No.:

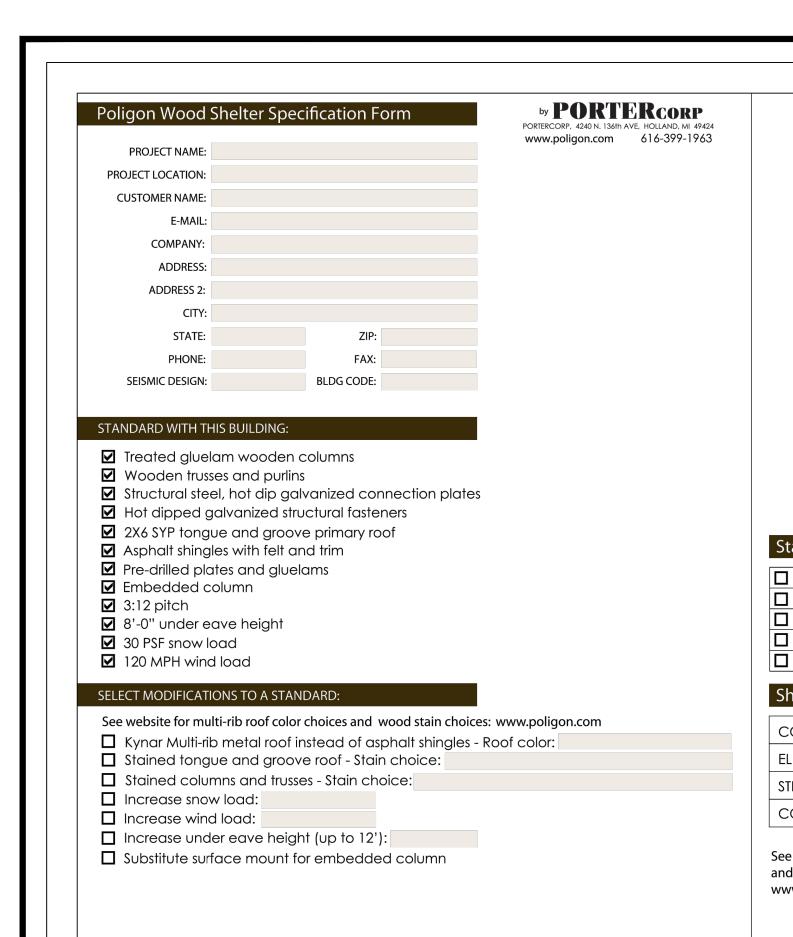
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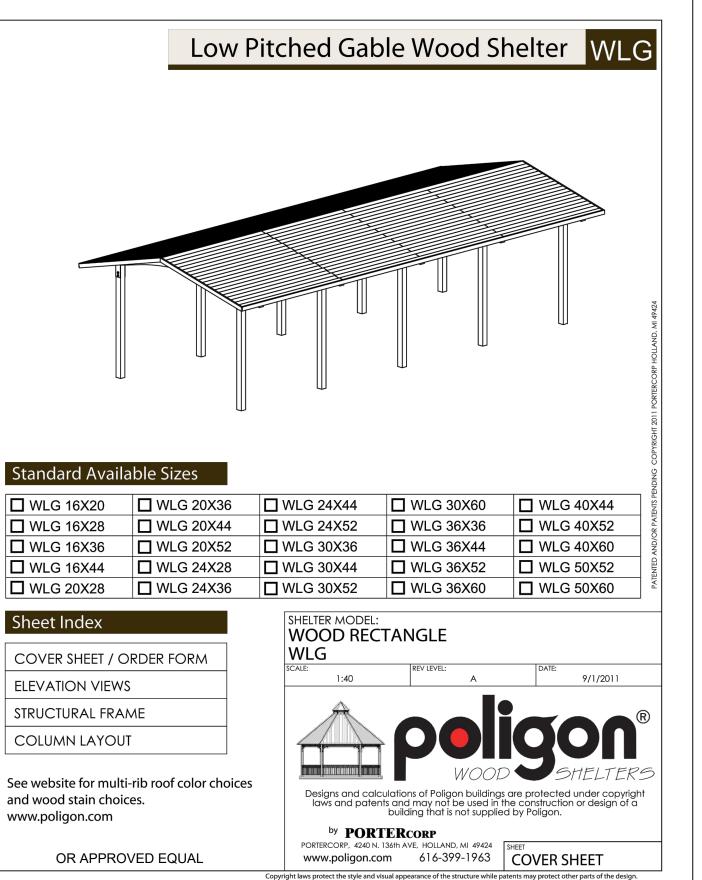
subject to legal action.

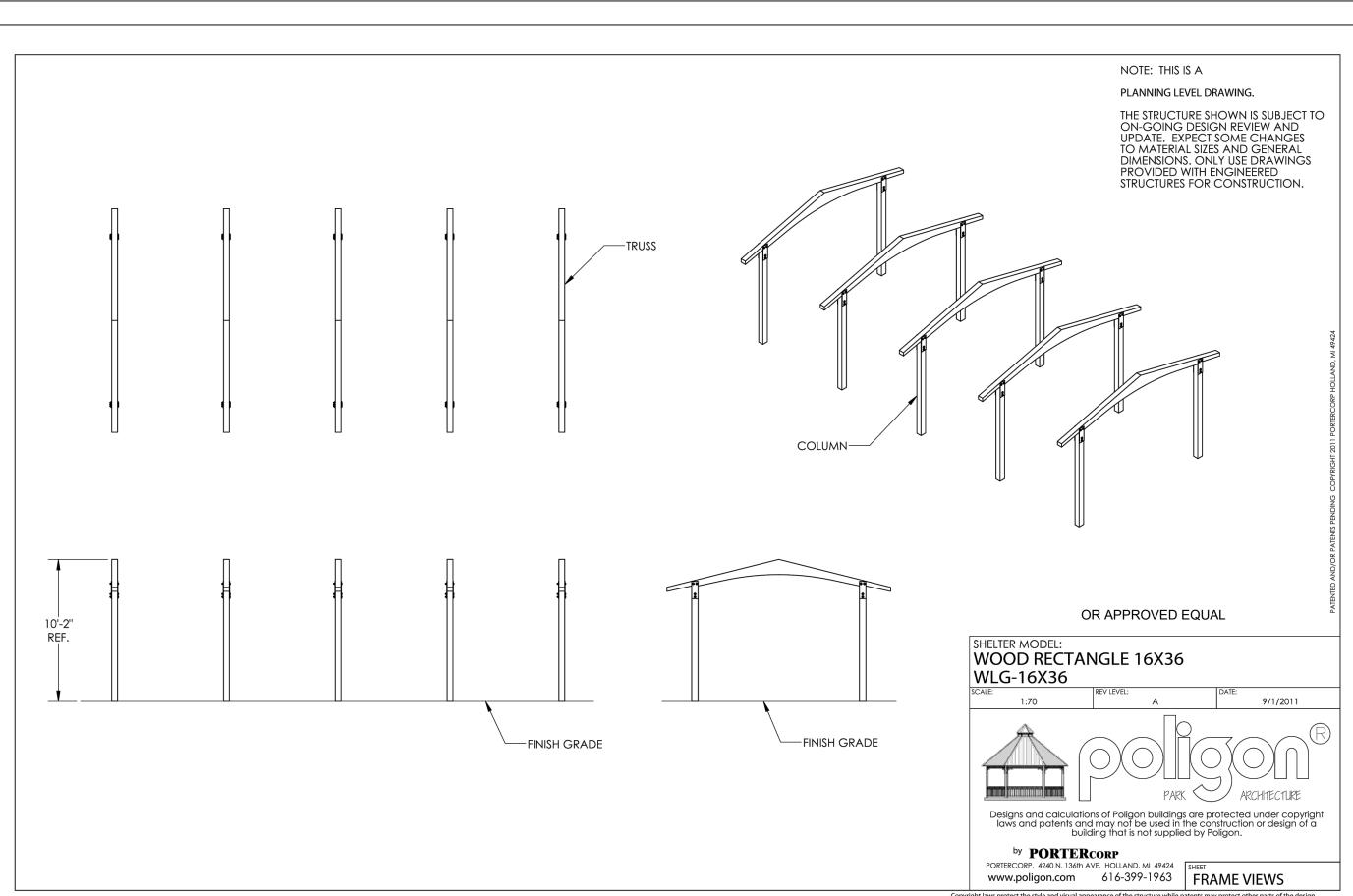
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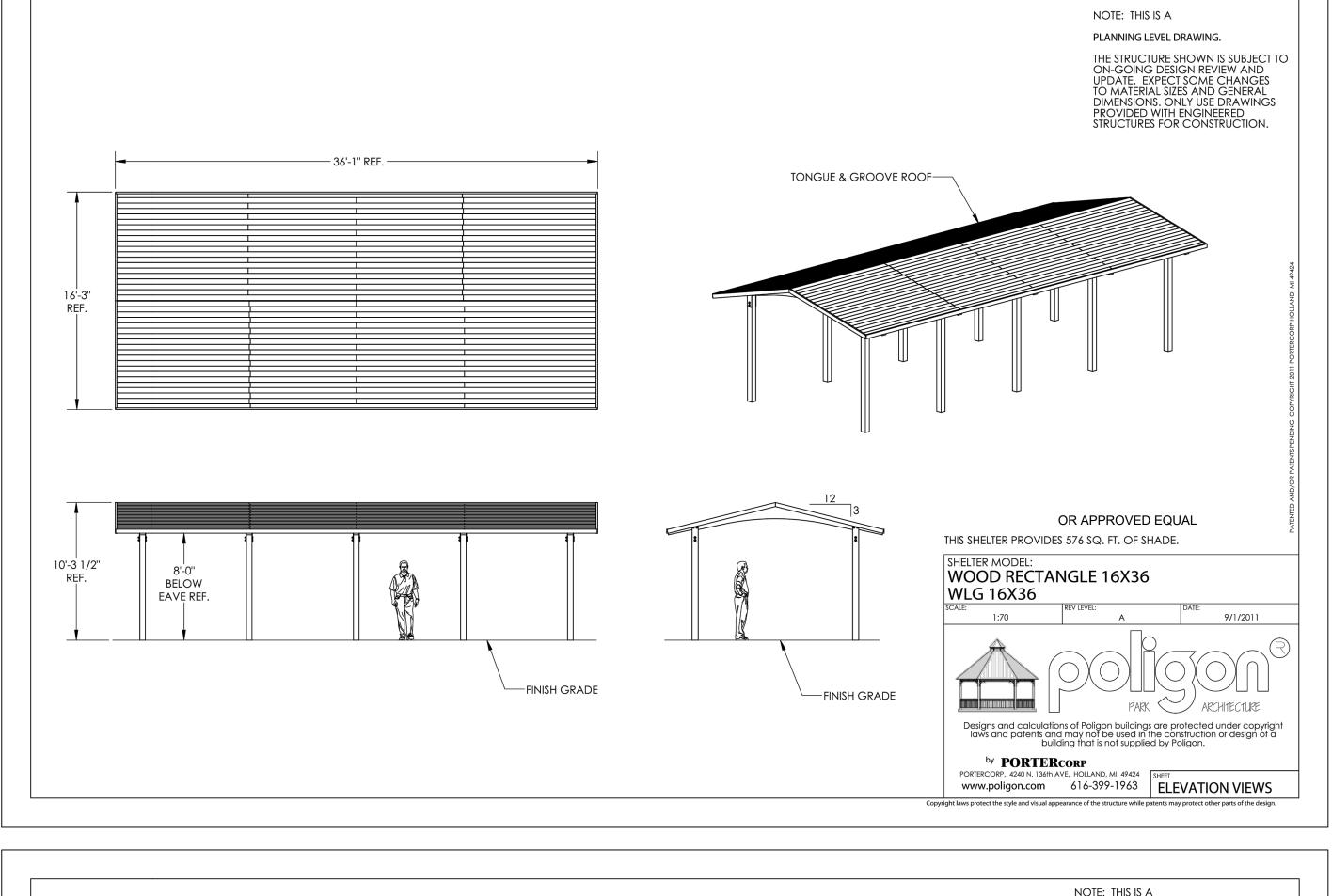
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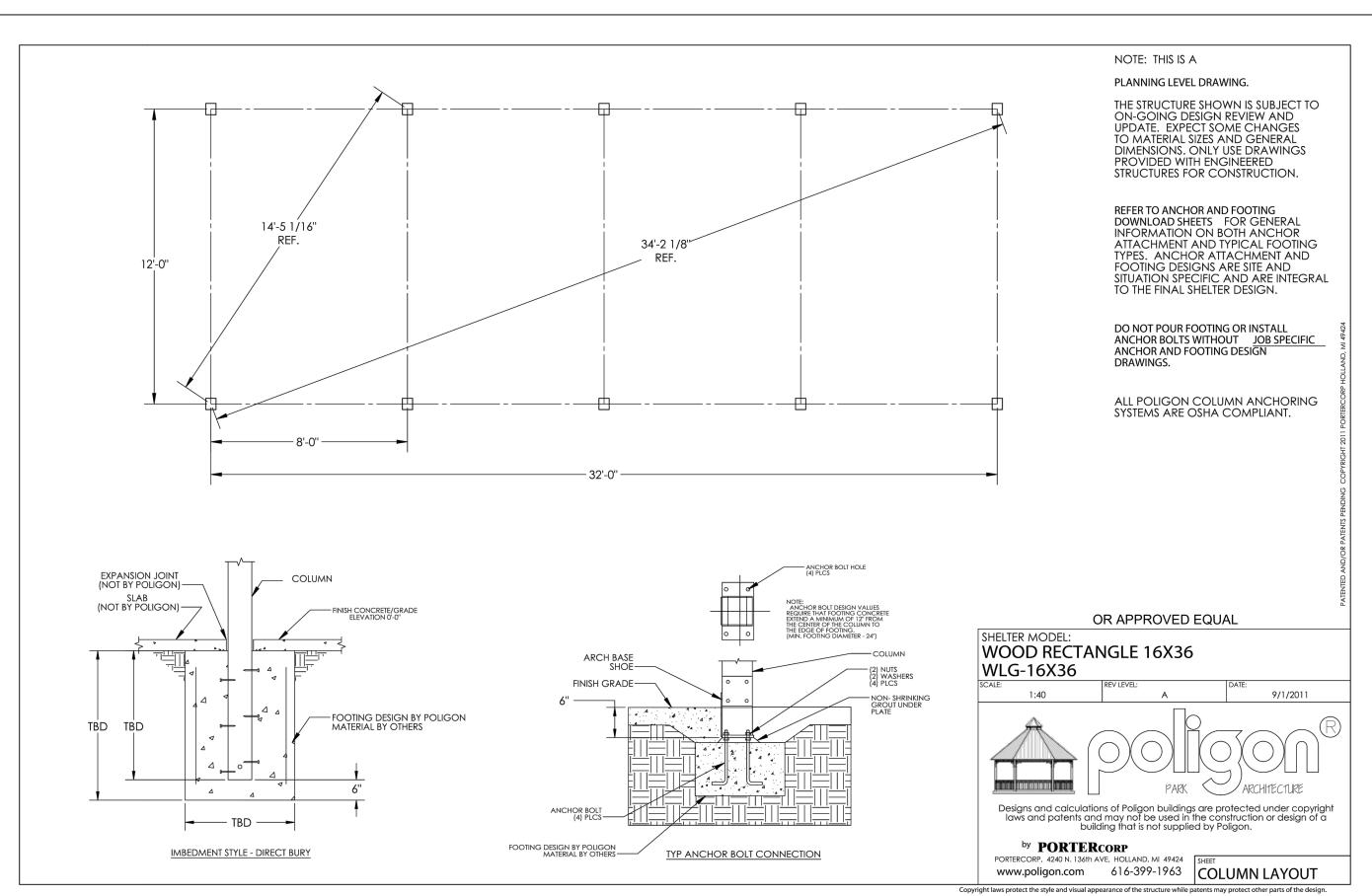
awing No.:
D.4.0





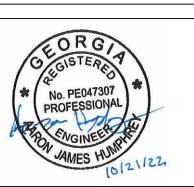


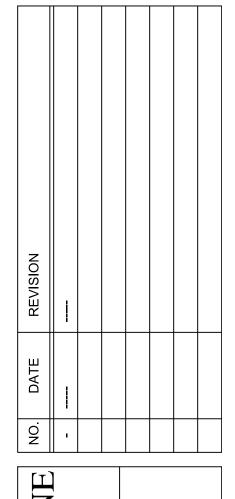




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1 INCH LONG PLOTTED FULL SCALE

Project Manager:

SAM SERIO, P.E. Drawn By:

Checked By:

Date: 10/21/2022

Scale: As Shown

Drawing No.:

1. BASIS OF DESIGN: POLIGON SHELTER IS TO BE BID ALTERNATE #1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.

2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR FOOTINGS OF POLIGON STRUCTURE FOR APPROVAL.

DORTHEA REDWINE PARK PHASE ONE

Town Project No.: PW-2022-12 Tyrone, Georgia

October 21, 2022

OWNED BY:

City of Tyrone 950 Senoia Road Tyrone, GA 30290 (770) 487-4038

DEVELOPED BY:

Keck and Wood, Inc. 3090 Premiere Parkway, Suite 900 Duluth, GA 30097 (678) 417-4000

GENERAL EROSION CONTROL NOTES:

1. OWNER/DEVELOPER: TOWN OF TYRONE, GA 950 Senoia Road Tyrone, GA 30290

TO BE PROVIDED AFTER CONTRACT IS AWARED

3. 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 DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. 4. EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL

MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. 5. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION

AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY. 6. REMOVE ALL DEBRIS FROM THE PROJECT SITE AND DISPOSE OF IT IN A LEGAL MANNER.

7. THIS DRAWING IS FOR EROSION CONTROL PURPOSES ONLY. PROVISIONS TO PREVENT EROSION OF THE SOIL OFF THE SITE SHALL CONFORM TO THE REQUIREMENTS OF THE EROSION AND SEDIMENTATION ACT OF 1975" AS SHOWN HEREON AND STIPULATED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" BY STATE SOIL AND WATER CONSERVATION COMMISSION. THE PROVISIONS IN THE MANUAL SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE EROSION OF THE DISTURBED AREAS AND PREVENT SEDIMENT

8 THE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES TAKE PLACE AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.

9. THE EROSION CONTROL MEASURES DETAILED HEREON SHALL BE CONTINUED UNTIL THE PERMANENT VEGETATION ON PLANTED GRADES AND SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT. THE SEDIMENT REMOVED FROM THE CONTROL STRUCTURES SHALL BE EVENLY DISTRIBUTED UPSTREAM OF EROSION CONTROL MEASURES. DISPOSED SEDIMENT SHALL BE PERMANENTLY GRASSED.

10. SILT FENCE SHALL BE PLACED DOWN GRADIENT OF ALL STOCKPILED SOIL OR BORROW AREAS AND ON ALL SLOPES THAT EXCEED 1.5:1.

11. ALL VEGETATIVE STABILIZATION SHALL BE ACCOMPLISHED AS SOON AS CONSTRUCTION PERMITS. IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 DAYS, CONTRACTOR IS RESPONSIBLE FOR STABILIZING DISTURBED AREAS WITH TEMPORARY VEGETATION OR MULCH.

12. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

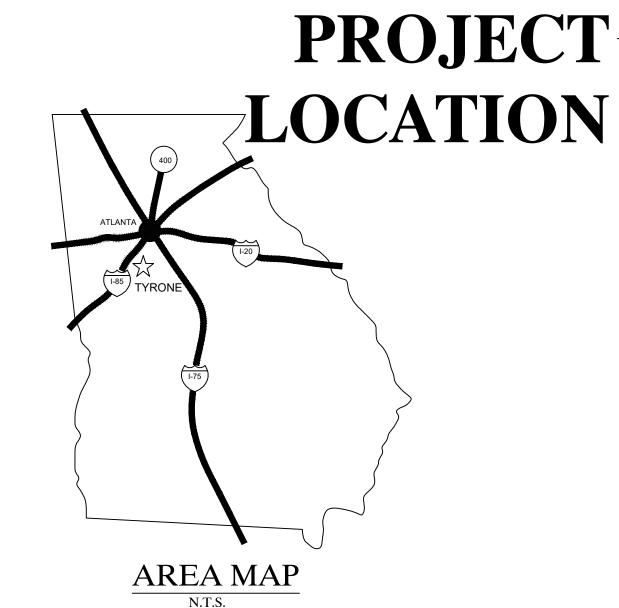
24 HR. CONTACT/PRIMARY PERMITEE:

OWNER: TOWN OF TYRONE

CONTACT PERSON: BRANDON PERKINS PHONE: (770) 487-4038

ADDRESS: 950 SENOIA ROAD TYRONE, GA 30290

EMAIL: BPERKINS@TYRONE.ORG









EROSION CONTROL CERTIFICATION:



LONGITUDE: -84.59764

TOTAL SITE ACREAGE = 2.01 AC

TOTAL DISTURBED ACREAGE = 0.98 AC

INDEX

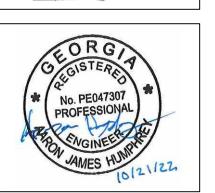
SHEET EC.1.0	ESPCP COVER SHEET
SHEET EC.1.1	ESPCP NOTES
SHEET EC.1.2	ESPCP NOTES & LEGEND
SHEET EC.1.3	ESPCP - PHASE 1
SHEET EC.1.4	ESPCP - PHASE 2
SHEET EC.1.5	ESPCP - PHASE 3
SHEET EC.1.6	ESPCP DETAILS
SHEET EC.1.7	ESPCP DETAILS

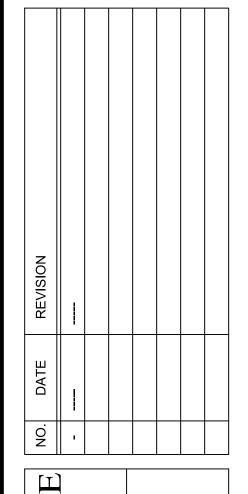
Itilities Protection Center, Inc

Know what's Delow. Call before you dig.

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PHASE PARK ORGIA O.: PW-202 S REDWINE J TYRONE, GEC OWN PROJECT NC

1 INCH LONG PLOTTED FULL SCALE

Project Manager: SAM SERIO, P.E. Drawn By: Checked By:

Date: 10/21/2022 Scale: As Shown

GENERAL NOTES

EROSION CONTROL NOTES (CONT.)

- 12. TEMPORARY MULCHING SHALL BE PROVIDED TO DISTURBED AREAS DAILY.
- 2. TEMPORARY MOLOHING SHALL BE PROVIDED TO DISTURBED AREAS DAILY.

 3. LIMITS OF CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT OF WAY AND EASEMENTS OBTAINED BY THE PUBLIC UTILITIES DEPARTMENT.
- 14. 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 ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO DISTURBANCE ACTIVITY SHALL OCCUR OUTSIDE THE
- LIMITS INDICATED ON THE DRAWINGS.

 15. ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) WILL BE INSPECTED DAILY, AND ANY DEFICIENCIES WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION CONTROL
- BMPS WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION BY THE ISSUING AUTHORITY.

 16. SEDIMENT CONTROL MEASURES WILL BE MAINTAINED UNTIL ALL UPSTREAM DISTURBED GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL
- ROADS/PARKING HAVE BEEN PAVED.

 17. CONTRACTOR SHALL INSPECT AND REPAIR EROSION CONTROL MEASURES AT LEAST DAILY AND PRIOR TO EACH ANTICIPATED RAINFALL.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT FROM SEDIMENT BARRIERS AND CHECK DAMS WHICH BECOME SILTED ABOVE ONE-HALF OF THEIR ORIGINAL HEIGHT.
- 19. ALL AREAS TO BE PAVED SHALL BE STABILIZED WITH BASE MATERIAL AS SOON AS PRACTICAL. TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION SHALL BE PROVIDED IMMEDIATELY AFTER
- REACHING FINAL GRADE FOR ALL AREAS NOT TO BE PAVED.

 20. THE CONSTRUCTION ACTIVITIES AT THESE SITES WILL NOT RESULT IN FLOODING OR CHANNEL
- DEGRADATION DOWNSTREAM.

 21. NO CUT OR FILL SLOPES STEEPER THAN 2:1 ARE ALLOWED. SPECIAL ATTENTION WILL BE GIVEN TO FILLS OVER 5 FEET IN HEIGHT.
- 22. ALL FILL SLOPES WILL HAVE SILT FENCES AT THE TOE OF SLOPES.
- 23. SURFACE ROUGHENING (Su): ALL CUT AND FILL SLOPES SHALL BE SURFACE ROUGHENED AND VEGETATED WITHIN (3) THREE DAYS AFTER GRADING IS COMPLETED.
- 24. AT THE END OF EACH WORK DAY, ALL SLOPES 2:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, POLYMERS, AND MATTING.
- 25. DOUBLE ROW TYPE C SILT FENCE REQUIRED WHEN PLACED ALONG STATE WATERS AND AT THE TOE OF SLOPES EXCEEDING 10' VERTICAL.
- 26. CHECK DAMS SHALL HAVE A MAXIMUM SPACING OF 150 FEET IN DITCH LINE.
- 27. AN UNDISTURBED VEGETATIVE BUFFER (MEETING COUNTY & STATE REGULATIONS) AND THE APPROPRIATE IMPERVIOUS SETBACK ADJACENT TO ALL STATE WATERS WILL BE PRESERVED.
- 28. SIGN EVERY LOT OR EVERY 100', WHICHEVER IS LESS, STATING: "STREAMSIDE BUFFER DO NOT REMOVE OR ALTER EXISTING NATIVE VEGETATION."
- 29. CRITICAL AREAS: RIP RAP AND/OR STONE CHECK DAMS SHALL BE PLACED AT ALL CRITICAL EROSION AREAS INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS.
- AREAS INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS.

 30. PERMANENT VEGETATION SHALL BE PROVIDED AT THE EARLIEST SUITABLE GROWING SEASON.
- 31. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE, THE CONTRACTOR SHALL NOT DEPOSIT ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ECT. IN THE DRAINAGE COURSE OR ASSOCIATED FLOOD PLAIN.
- 32. GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY THE MEANS OF BRIDGING OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE; ALL STREAM CROSSINGS WILL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION OF THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA."
- 3. DISCHARGE OF STORM-WATER RUN-OFF FROM DISTURBED AREAS TO A STREAM SHALL BE CONTROLLED TO THE EXTENT THAT TURBIDITY OF THE STREAM DOWNSTREAM FROM THE DISCHARGE SHALL NOT EXCEED 75 NEPHELOMETRIC TURBIDITY UNITS HIGHER THAN THE TURBIDITY LEVEL OF THE RECEIVING STREAM IMMEDIATELY UPSTREAM FROM THE STORM-WATER RUN-OFF DISCHARGE AT THE TIME OF SUCH DISCHARGE.
- 34. DISPOSE OF WASTE SOILS AND CLEARED AND GRUBBED & CONSTRUCTION DEBRIS OFF-SITE AT AN APPROVED LANDFILL SECURED BY THE CONTRACTOR, AND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- 35. ALL SOLID WASTE IS TO BE HAULED OFF-SITE. STUMPS AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED IN A PROPERLY PERMITTED LANDFILL.
- 36. CONSTRUCTION EXIT IS PROVIDED TO MINIMIZE THE AMOUNT OF OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND DUST GENERATION. THE CONSTRUCTION ENTRANCE/EXIT ALSO ACTS AS A FUELING AREA WHICH WILL PROVIDE REMEDIATION OF PETROLEUM SPILLS AND LEAKS.
- 37. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS, EXCEPT AS PERMITTED UNDER GEN. NPDES PERMIT # GAR100001 PART IV (i), (ii), AND (iii).
- UPON NOTIFICATION BY THE PRIMARY PERMITTEE, THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN SHALL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
- 39. ANY AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
 - 40. THESE PLANS HAVE BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR 100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NPDES, STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR TANK PROJECT
 - 41. RETAINING WALLS OVER 4' IN HEIGHT AND PART OF INITIAL INFRASTRUCTURE WILL BE REQUIRED TO BE INSPECTED BY DESIGN PROFESSIONAL OR REPRESENTATIVE AND AN INSPECTION REPORT WILL BE REQUIRED AT TIME OF C.O.
- ITEM# 42. SEE DETAIL PAGES FOR CHART WITH SYMBOLS, DETAILS, AND DESCRIPTIONS OF FULL EROSION CONTROL MEASURES
- 7> 43. GPS LOCATION OF CONSTRUCTION EXIT: 33°28'13.77" N 84°35'59.15" W

Ds1

FLAT TO ROLLING

LESS THAN 3:1

THAN 3:1

THAN 3:1

TERRAIN WITH SLOPES

EMBANKMENTS WITH

SLOPES GREATER

FLAT TO ROLLING

LESS THAN 3:1

TERRAIN WITH SLOPES

EMBANKMENTS WITH

SLOPES GREATER

44. CONTRACTOR IS TO ENSURE SITE WILL HAVE THE APPROPRIATE STAGING & ACCESS REQUIREMENTS FOR CONSTRUCTION EQUIPMENT.

ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS

WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO

SPECIES

SUNDANGRASS

RYEGRASS

WEEPING

LOVEGRASS

COMMON BERMUDA

COMMON BERMUDA

*LESPEDEZA SERICEA

(HULLED SEED)

(HULLED SEED)

FESCUE, TALL

RATES PER 1,000 SQUARE FEET

<u>SEED</u>

4.0 LBS.

1.4 LBS.

0.1 LB.

1.4 LBS.

0.05 LBS.

1.1 LBS.

0.2 LB.

1.7 LBS.

DISTURBED AREA STABLIZATION (WITH MULCHING ONLY)

PRODUCE AN EROSION RETARDING COVER.

SOWING SEASON

8/1 - 4/1

4/1 - 9/1

3/15 - 6/15

3/1 - 6/15

3/1 - 6/30

9/1 - 3/30

THE PROJECT SITE IS LOCATED IN THE PIEDMONT REGION

8/15 - 10/30

SOIL CLEANUP AND CONTROL PRACTICES

- 1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- 2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND,
- SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
 3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT
- FUTURE SPILLS.

 4. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE
- AND FEDERAL REGULATIONS.
 5. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL
- BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
 6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT
- 6. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS A 1-800-424-8802.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACT, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24
 HOURS.
- 8. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACT, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
- 9. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN
- PREPARED BY THAT LICENSED PROFESSIONAL.

 10. SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE
- 11. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY REGARDLESS OF THE SIZE.
- 12. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- 13. THE CONTRACTOR'S SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSON WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THIS INDIVIDUAL WILL BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE (OR DESIGNATED ONSITE JOB LOCATION).

PRODUCT SPECIFIC PRACTICES

- → 1. PETROLEUM BASED PRODUCTS CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- 2. PAINTS/FINISHES/SOLVENTS ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 3. CONCRETE TRUCK WASHING NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
- 4. FERTILIZER/HERBICIDES THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
- 5. BUILDING MATERIALS NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF USING PROPER WASTE DISPOSAL PROCEDURES.

CONCRETE TRUCKS

- CONCRETE TRUCK DRUMS WILL NOT BE WASHED OUT ONSITE.
- SURPLUS CONCRETE WILL NOT BE DISCARDED ONSITE.

PERMANENT

<u>MULCH</u>

115 LBS.

ITEM#

Ds2

FERTILIZER

12 LBS. (10-10-10)

12 LBS. (10-10-10)

12 LBS. (10-10-10)

35 LBS. (6-12-12)

35 LBS. (6-12-12)

35 LBS. (6-12-12)

35 LBS. (6-12-12)

SEEDING REQUIREMENTS

TEMPORARY

MAINTENANCE

7 LBS. (10-10-10)

7 LBS. (10-10-10)

7 LBS. (10-10-10)

10 LBS. (10-10-10)

10 LBS. (10-10-10)

10 LBS. (10-10-10)

10 LBS. (10-10-10)

LIMESTONE

92 LBS.

- CONCRETE TRUCK SHOOTS AND TOOLS WILL BE WASHED OUT INTO THE WORKING TRENCH PRIOR TO BACKFILL.
- NO WATER FROM WASHING OFF TOOLS OR SHOOTS WILL LEAVE THE SITE OR DRAIN ONTO UNDISTURBED AREAS.

SANITARY WASTE

- 1. A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.
- 2. ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPS MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE TO PREVENT WASTE FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE.

SYMBOL ITEM#
SOIL TYPE

AmB

APPLING SANDY LOAM

CeB

CECIL SANDY LOAM

2 TO 6

DESCRIPTION OF APPROPRIATE CONTROL AND MEASURES FOR EACH PHASE

- PHASE 1 CONSISTS OF INSTALLING SILT FENCE, INLET SEDIMENT TRAPS, TEMPORARY SEDIMENT TRAPS, DIVERSION CHANNELS, AND A

- CONSTRUCTION EXIT.

 PHASE 2 CONSISTS OF INSTALLING INLET SEDIMENT TRAPS,
 MULCHING, AND TEMPORARY SEEDING.
- PHASE 3 CONSISTS OF INSTALLING PERMANENT GRASSING, SOD, AND PAVING.

AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO THE CONSTRUCTION ACTIVITIES AND AFTER CONSTRUCTION ACTIVITIES ARE AS FOLLOWS:

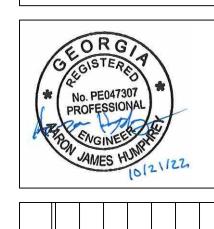
OUTFALL 1: PRE-DEVELOPED CN=55 & POST-DEVELOPED CN=67

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Fayetteville, GA 30214
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NO. DATE REVISION
- ----

TYRONE, GEORGIA WN PROJECT NO.: PW-2022-12 SPCP NOTES

THIS BAR IS

1 INCH LONG
PLOTTED FULL SCALE
Project Manager:

Project Manager:
SAM SERIO, P.E.

Drawn By: Checked By:
BAF AJH

Date: 10/21/2022

Scale: As Shown
Proiect No.:

AREAS

UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES STATE SOIL AND WATER CONSERVATION COMMISSION OF GEORGIA

STRUC	CTURAL PE	RACTICES		
Sd2	INLET SEDIMENT TRAP	* * * * * * * * * * * * * * * * * * *		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	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. 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.
Sr	TEMPORARY STREAM CROSSING		(LABEL)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORM DRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the cconcentrated runoff.
Su	SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Тр	TOPSOILING	THE	(Show Striping & Storage Areas)	The practice of stripping off the more fertile top soil, storing it, then spreading it over the disturbed area after the completion of construction activities.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE	**************************************		Paved or vegetative water outlets for diversions,terraces,berms,dikes or

VEGET	ATIVE ME	ASURES		
Bf	BUFFER ZONE		Bf (LABEL)	An undisturbed natural"green belt" separating the land-disturbed 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 (WITH VEGE- TATION)	*******	Cs	Planting vegetation on dunes that are denuded,artificially constructed,or renourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seeding may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	Establishing temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	W. W. G. G.	Ds3	Establishing permanent vegetative cover such as trees, shrubs, vines, grasses, sod, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED		Du	Controlling surface and air movement of dust on construction sites,roadways

similar structures

STRUCTURAL PRACTICES

STRUCT	URAL PRA	CTICES			Applying plant residues or other suitable m produced on the site if possible, to the soil
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION	CONDITIONS Mulch or temporary grassing shall be appli
Cd	CHECKDAM		J	A small temporary barrier or dam constructed across a swale,drainage ditch or area of concentrated flow.	exposed areas within 14 days of disturbance used as a singular erosion control device for months, but it shall be applied at the appropriate depending on the material used, anchored, continuous 90% cover or greater of the soil Maintenance shall be required to maintain depth and 90% cover. Temporary vegetation
Ch	CHANNEL STABILIZATION			Improving,constructing or stabilizing an open channel,existing stream,or ditch.	employed instead of mulch if the area will r undisturbed for less than six months. If an undisturbed for greater than six months, po vegetative techniques shall be employed. SPECIFICATIONS
Co	CONSTRUCTION EXIT	- ""	(LABEL)	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.	MULCHING WITHOUT SEEDING This standard applies to grades or cleared seedings may not have a suitable growing seedings an erosion retardant cover, but can with a mulch cover.
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.	Site Preparation 1. Grade to permit the use of equipment for anchoring mulch. 2. Install needed erosion control measures such as dikes, diversions, berms, terraces
(Dn1)	TEMPORARY DOWNDRAIN STRUCTURE		(LABEL)	A flexable conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.	barriers. 3. Loosen compact soil to a minimum deption of the following materials and a indicated:
Dn2	PERMANENT DOWNDRAIN STRUCTURE		(LABEL)	A paved chute,pipe,sectional conduit or similar material designed to safely conduct surface runoff down a slope.	 Dry straw or hay shall be applied at a deinches providing complete soil coverage. Of this material is easy application.
Ga	GABION			Rock filled baskets which are hand- placed into position forming soil stabilizing structures.	Ds1 DISTURBED STABILIZAT MULCHING
Gr	GRADE STABILIZATION STRUCTURE		(LABEL)	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.	DEFINITION The planting of perennial vegetation such as trees, shrubs, vines, grass-legumes on exposed areas for final permanent stabilization. Permanent
Lv	LEVEL SPREADER		7	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.	perennial vegetation shall be used to achieve final stabilization CONDITIONS Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas. SPECIFICATIONS
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.	Grading and Shaping Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enaplant establishment. When conventional seeding and fertilizing are to be done, grade and sha
Re	RETAINING WALL	***************************************	(LABEL)	A wall installed to stabilize cut and fill slopes where maximum permissable slopes are not obtainable. Each situation will require special design.	where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintens the vegetation. oncentrations of water that will cause excessive soil crosion shall be did a safe outlet. Diversions and other treatment practices shall conform with appropriate standards and specifications.
Rt	RETROFITTING		(LABEL)	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.	Seedbed Preparation Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used. When conventional seeding is to be usedbed preparation will be done as follows: Broadcast plantings 1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4
Sd1	SEDIMENT BARRIER		TYPE (INDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags,bales or straw or hay, brush,logs and poles,gravel,or a sediment fence. The barriers are usually temporary and inexpensive.	inches; alleviate compaction, incorporate lime and fertilizer, smooth an the soil, allow for the preper placement of seed, sprigs, or plants; and all the anchoring of straw or hay mulch if a disk is to be used. 2. Tillage may be done with any suitable equipment. 3. Tillage should be done on the contour where feasible. DISTURBED AREA STABILIZA
Rp	Rip Rap		888 Rp)	Improving, lining or stabilizing an open channel or ditch with a layer of Rip Rap to mitigate soil erosion.	Ds3 (WITH PERMANENT VEGETAT

EFINITION

pplying plant residues or other suitable materials,

CONDITIONS

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a continuous 90% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain indisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

SPECIFICATIONS

This standard applies to grades or cleared 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

anchoring mulch. 2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment

. Grade to permit the use of equipment for applying and

Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth 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.

> ISTURBED AREA STABILIZATION (WITH MULCHING ONLY

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.

Cutback asphalt (slow curing) shall be applied at 1200 gallons per acre (or 1/4 gallon per sq.yd.). 4. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and reused.

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

3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of 'tracking in" or damage to shoes, clothing, etc. 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 much of it in an erect position. Straw or hay mulch shall be anchored

after application. Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use

100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifers and binders can be substituted for emulsified asphalt. Please refer to specification Tb -Tackifers and Binders. Plastic mesh or netting with mesh no larger than one inch by 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.

4. On slopes too steep for the safe operation of tillage equipment, the soil

surface shall be pitted or trenched across the slope with appropriate har to provide two places 6 to 8 inches apart in which seed may lodge and

Where individual plants are to be set, the soil shall be prepared by excavating.

3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep

x the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp

fiber mulch with water and apply in a slurry uniformly over the area to be

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker seeder, drill, rotary seeder, other mechanical seeder,

Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch

or hand seeding to distribute the seed uniformly over the area to be treated.

No-till seeding is permissible into annual cover crops when planting is done

following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till

seeding shall be done with appropriate no-till seeding equipment. The seed

Shrubs, vines and sprigs may be planted with appropriate planters or hand

shall be planted at the same depth or alightly deeper than they grew at the

of the hole, two inches of soil shall be added and the plant shall be set in the

shall be set in a manner that will avoid crowding the roots. Nursery stock plan

anen so plantes a class and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom

must be uniformly distributed and planted at the proper depth.

for large seed when using a cultipacker or other suitable equipment.

treated. Apply within one hour after the mixture is made.

on the contour four to six months prior to planting. Subsoilling should be done when the soil is dry, preferably in August or September.

boles, opening furrows, or dibble planting. 2. For nursery stock plants, holes shall be large enough to accommodate roots

germinate. Hydraulic seeding may also be used.

Hydraulic Seeding

DEFINITION

The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

CONDITIONS

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	3.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.9 pound	40 lbs.	8/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15
Sudangrass	1.4 pounds	60 lbs.	3/1-8/1
Browntop Millet	0.9 pound	40 lbs.	4/1-9/15
Wheat	4.1 pounds	3 bu.	9/15-2/1

 Unusual site conditions may require heavier seeding rates ** Seeding dates may need to be altered to fit temperture variations and conditions

Mulch is required for all permanent vegetation applications. Mulch applied to

seeded areas shall achieve 75% soil cover. Select the mulching material from

1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry

straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at

seeding. It shall be applied at the rate of 500 pounds per acre. Drystraw or dry

hay shall be applied (at the rate indicated above) after hydraulic seeding.

3. One thousand pounds of wood cellulose or wood pulp fiber, which includes a

5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding

purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate

6. When using temporary erosion control blankets or block sod, mulch is not

required.

7. Bituminous treated roving may be applied on planted areas on slopes, in

ditches or dry waterways to prevent erosion. Bituminous treated roving shall be

applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth

Straw or hay mulch will be spread uniformly within 24 hours after seeding

other spreading equipment or by hand. Mulch shall be applied to cover 75% of

Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic

Anchor straw or hay mulch immediately after application by one of the following

mulch application when straw or hay is spread by methods other than SWITCH GRASS

Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is

ejected from the blower machine or (b) sprayed on the mulch immediately

inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application

for seeded areas.

during seeding.

Applying Mulch

seeding equipment.

2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic

tackifier, shall be used with hydraulic seeding on slopes 3/4:1 or steeper. Sericea lespedeza hay containing mature seed shall be applied at a rate of

STURBED AREA STABILIZATION WITH TEMPORARY SEEDING)

The combination of asphalt emulsion and water shall consist of a homogene

mixture satisfactory for spraying. The mixture shall consist of 100 gallons of grade SS-th or CSS-th emulsified asphalt and 100 gallons of water per ton of

Care shall be taken at all times to protect state waters, the public, adjacent

2. Hay and straw mulch shall be pressed into the soil immediately after the

mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The 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 disks

shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil. 3. Synthetic tackifiers or binders approved by GDOT shall be applied in

conjunction with or immediately after the mulch is spread. Synthetic tackifiers

hall be mixed and applied according to manufacturer's specifications. Refer to b - Tackiffers and Binders.

4. Rye or wheat can be included with Fall and Winter plantings to stabilize the

mulch. They shall be applied at a rate of one-quarter to one half bushel per acre 5. Plastic mesh or netting with mesh no larger than one inch by one inch may be

needed to anchor straw or hay mulch on unstable soils and concentrated flow

SEEDING RATES FOR

PERMANENT SEEDING

BLOCK SOD ONLY

75 LBS.

4 LBS.

40 LBS. 3/15-6/1

4/1-7/1

1/1-12/31

2/1-6/15

areas. These materials shall be installed and anchored according to

Irrigation shall be applied at a rate that will not cause runoff.

BLOCK SOD

4.7 POUNDS

0.4 POUND

0.9 POUND

Unusual site conditions may require heavier seeding rates

** Seeding dates may need to be altered to fit temperature varia

SPECIES

CENTIPEDE

LOVE GRASS

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 of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Pertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

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, cultipacker seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand.

Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Ds4 - Disturbed Area Stabilization (With Mulching Only).

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. Subsequent applications should be made when needed.

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 TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATACK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

<u>/EGETATIVE COVER.</u> 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 TB-TACKIFIERS AND BINDERS.

TILLAGE. THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING DOWN CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS.

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, SNOWFLAKES, 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

CALCIUM CHLORIDE. APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS

Construction plans will specifically detail the location and

de for the free flow of water between the channel and

andling of spoils. Spoil material resulting from clearing

grubbing and channel excavation shall be disposed of in a

immediately after construction or as soon as weather

shown on the plan. The foundation for structures shall be

nanner which will:

not cause an increase in flood stage,

<u>PERMANENT VEGETATION.</u> SEE STANDARD DS3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION). EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN

TOPSOILING. THIS ENTAILS COVERING THE SURFACE WITH LESS EROSIVE SOIL MATERIAL. SEE STANDARD TP - TOPSOILING.

STONE. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

DUST CONTROL - Du

geotextile in intimate contact with the soil such that no voic spaces exist between the underlying soil and the geotextile

concrete, rock, masonry, steel, aluminum, or treated wood.

A separation geotextile should be placed under concrete

eotextile will keep the base material soils in place and

due to settlement of the base material. The separation

ninimize the likelihood of a system failure

earth and vegetative measures is exceeded in the safe handling of water at permissible velocities, where excessi grades or overall conditions are encountered or where water along with or as a part of other erosion control practices The structures shall be designed hydraulically to adequately

A filter blanket layer consisting of an appropriately designed graded filter sand and/or gravel or geotextile material shall be placed between the riprap and base material. The gradation of the filter blanket material shall be designed to create a graded filter between the base material and the riprap. A geotextile can be used as a substitution for a layer of sand in a graded filter or as the filter blanket. Criteria for selecting an appropriate geotextile and guidance for recommended drop heights and stone weights are found in AASH-TO M288-96 Section 7.5, Permanent Erosion Control Specifications.

Concrete Lining Ch-3

If a channel has velocities high enough to require a concret should be utilized to reduce the velocity of the runoff and

Vegetation), Ds4 - Disturbed Area Stabilization (With

Rock riprap shall be designed to resist displacement whet the channel is flowing at the bankfull discharge or 25-year frequency discharge, whichever is the lesser. Rock riprap lining should be used when channel velocities are between

on slopes steeper than 1-1/2 horizontal to 1 vertical. Rock shall be dense, resistant to the action of air and water, and

suitable in all other respects for the purpose intended. Rock

shall be installed according to standards specified in Riprap,

A filter blanket layer consisting of an appropriately designed

Sodding), and Mb - Matting and Blankets.

Rock Riprap Lining Ch-2

SPECIFICATIONS

erfere with the construction or proper functioning of the . Excavation shall be at the locations and grades shown on the drawings. The lining shall not compromise the capacity of the channel, e.g. the emergency spillway shall be ver-excavated so that the lining will be flush with the slope 4. The geotextile shall be placed on a smooth graded surface

leared of all undesirable materials prior to the installation of carry the channel discharge and structurally to withstand loadings imposed by the site conditions. The structure shall meet requirements of Gr - Grade Stabilization Structure Structure. 8. Materials used in construction shall be of permanence the facility. Earthfill, when used as a part of the structures, shall be placed according to the installation requirements for sediment basin embankments. 10. Construction operations shall be carried out in such a manner that erosion and air and water pollution will be minimized. State and local laws concerning pollution abatement shall be complied with.

 Vegetation shall be established on all disturbed areas mediately after construction. If weather conditions of delay in establishing vegetation, the area shall be mulched in

Permanent Vegetation).

12. All temporary access roads or travelways shall be appropriately closed to exclude traffic.

13. Trees and other fallen natural vegetation not causing leterrent to stream flow should be left for the purpose of

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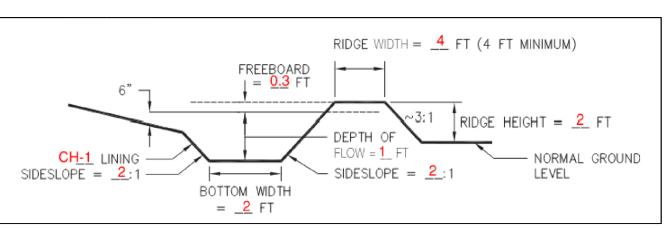
1 INCH LONG PLOTTED FULL SCALE Project Manager

SAM SERIO, P.E. Checked By: Date: 10/21/2022

Scale: As Shown

ITEM# 29 ACTIVITIES SCHEDULE MONTH NO. **ACTIVITY** LOCATE EXISTING UTILITIES - INSTALL EROSION CTRL. MEASURES - SITE CLEARING & GRUBBING - SITE GRADING & DEMOLITION CONSTRUCTION OF SITE PIPING AND STRUCTURES INSTALLATION SURFACE RESTORATION & PAVING - MAINTAIN EROSION CTRL. MEASURES - INSTALL PERMANENT GRASSING REMOVE EROSION CTRL. MEASURES

THE ABOVE SCHEDULES INDICATE ESTIMATED SEQUENCE AND DURATION OF EVENTS IN CONSTRUCTION ACTIVITIES. IT HAS BEEN PREPARED WITHOUT THE ASSISTANCE OF THE CONTRACTOR. AFTER SELECTION OF THE CONTRACTOR BY THE OWNER, THE CONTRACTOR MAY PROPOSE ADJUSTMENT TO THIS SCHEDULE AS CONSIDERED NECESSARY TO SCHEDULE THE PROJECT



DIVERSION CHANNEL - Di

EFINITION permanent vegetation using sods on highly erodible or critically eroded lands.

his application is appropriate for areas which require immediate vegetative overs, drop inlets, grass swales, and waterways with intermittent flow

CONSTRUCTION SPECIFICATIONS INSTALLATION

ing soil surface to final grade. Clear surface of trash, woody debris, stones

nd clods larger than 4'. Apply sod to soil surfaces only and not frozen urfaces, or gravel type soils. eated with herbicides or soil sterilants. x fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1. For all planting of warm season species, half the fertilizer should be applied at lanting and the other half in the spring.

ble 6-6.1. Fertilizer Requirements for Soil Surface Application Pertilizer Type Fertilizer Rate Fertilizer Rate Season (Ibs./acre) (lbs./acre) .025

gricultural lime should be applied based on soil tests or at a rate of 1 to 2 ions per acre. stallation

Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger oints and do not stretch sod. slopes steeper than 3:1, sod should be anchored with wooden o iodegradable pins or other approved methods. nstalled sod should be rolled or tamped to provide good contact between sod

rrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

Irrigate sod and soil to a depth of 4" immediately after installation.

od should not be cut or spread in extremely wet or dry weather.

TURBED AREA STABILIZATION VITH SODDING

MATERIALS

Tall Fescue

 Sod selected should be certified. Sod grown in the general area of the project Sod should be machine out and contain $3/4' \pm 1/4'$ of soil, not including shoots Sod should be cut to the desired size within $\pm 5\%$. Torn or uneven pads sho be rejected.

Sod should be cut and installed within 36 hours of digging. Avoid planting when subject to frost heave or hot weather if irrigation is not

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. l'able 6-6.2. Sod Planting Requirements

Grass	Varieties	Resource Area	Growing Season.
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L ₅ P,C P,C P,C P,C	Warm Weather
Bahiagrass	Pensacola	P,C	Warm Weather
Centipede		P,C	Warm Weather
St. Augustine	Common Bitterblue Raleigh	С	Warm Weather
Zoysia	Emerald	P,C	Warm Weather

MAINTENANCE Re-sod areas where an adequate stand of sod is not obtained New sod should be mowed sparingly. Grass height should not be out less

than 2'-3" or as specified. Apply one ton of agricultural lime as indicated by soil test or every 4-6 years Fertilize grasses in accordance with soil tests or Table 6-6.3.

Fertilizer Bate Types of Species Planting Year (N-P-K) (lbs/acrs) (lbs./acre) First Second 6-12-12 6-12-12 Maintenance 10-10-10 50-100

DEFINITION

CONDITIONS nels conveying a continuous, live stream. Kentucky M-L,P Cool Weather

> vements of the channel should not adversely affect the nmental integrity of the area and must not cause ificant erosion upstream or flooding and/or sediment NNEL LININGS AND STRUCTURAL

ilable for discharge by gravity flow. Construction or other

regetated Lining Ch-1

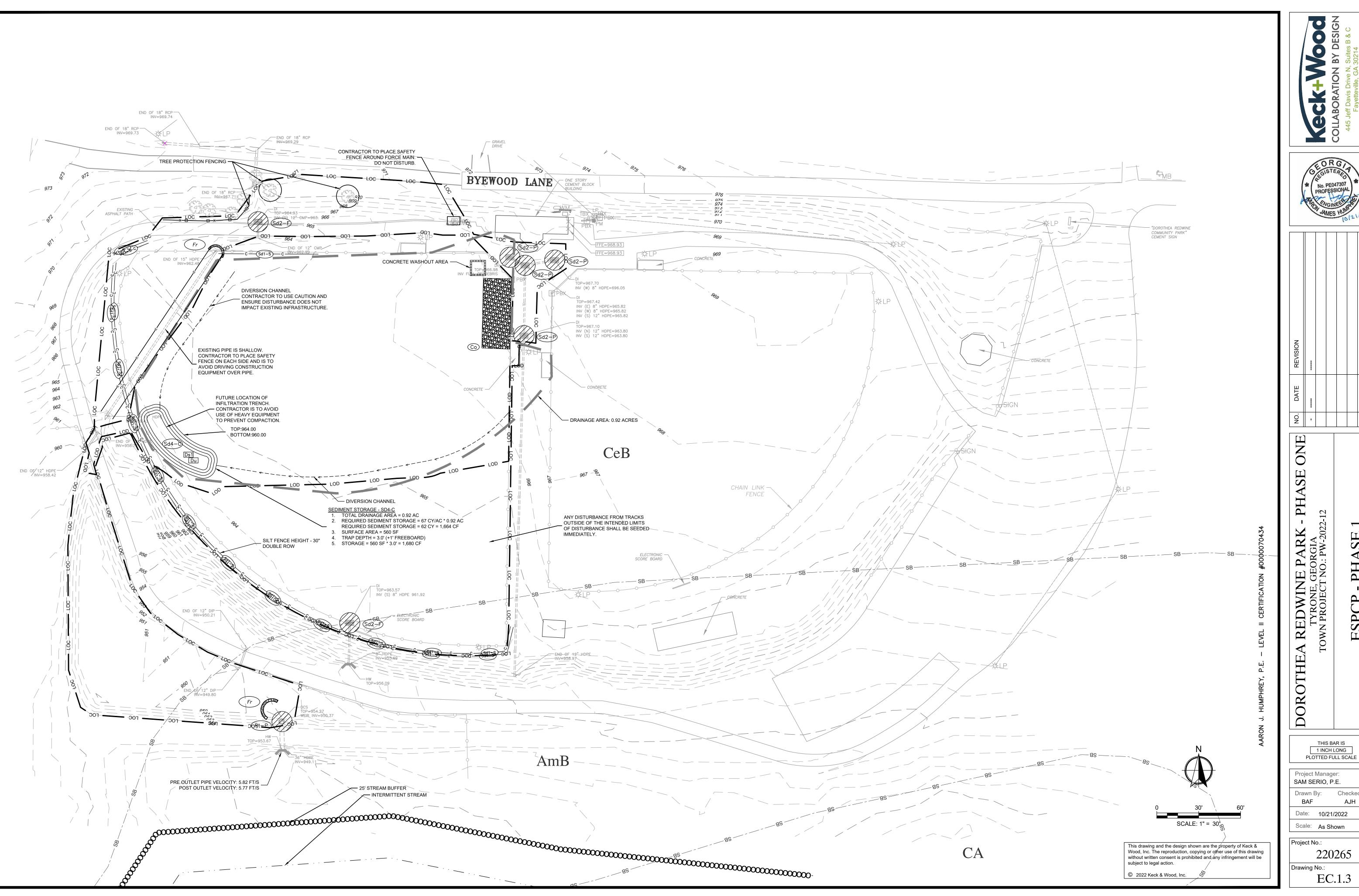
el is flowing at the bankfull discharge or 25-year uency discharge, whichever is the lesser. Temporary ncentrated flow areas to aid in the establishment of

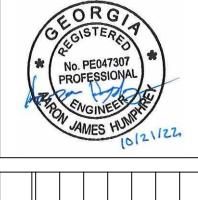
HANNEL STABILIZATION

ischarge and to withstand the loading imposed by site

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l Drawing No.



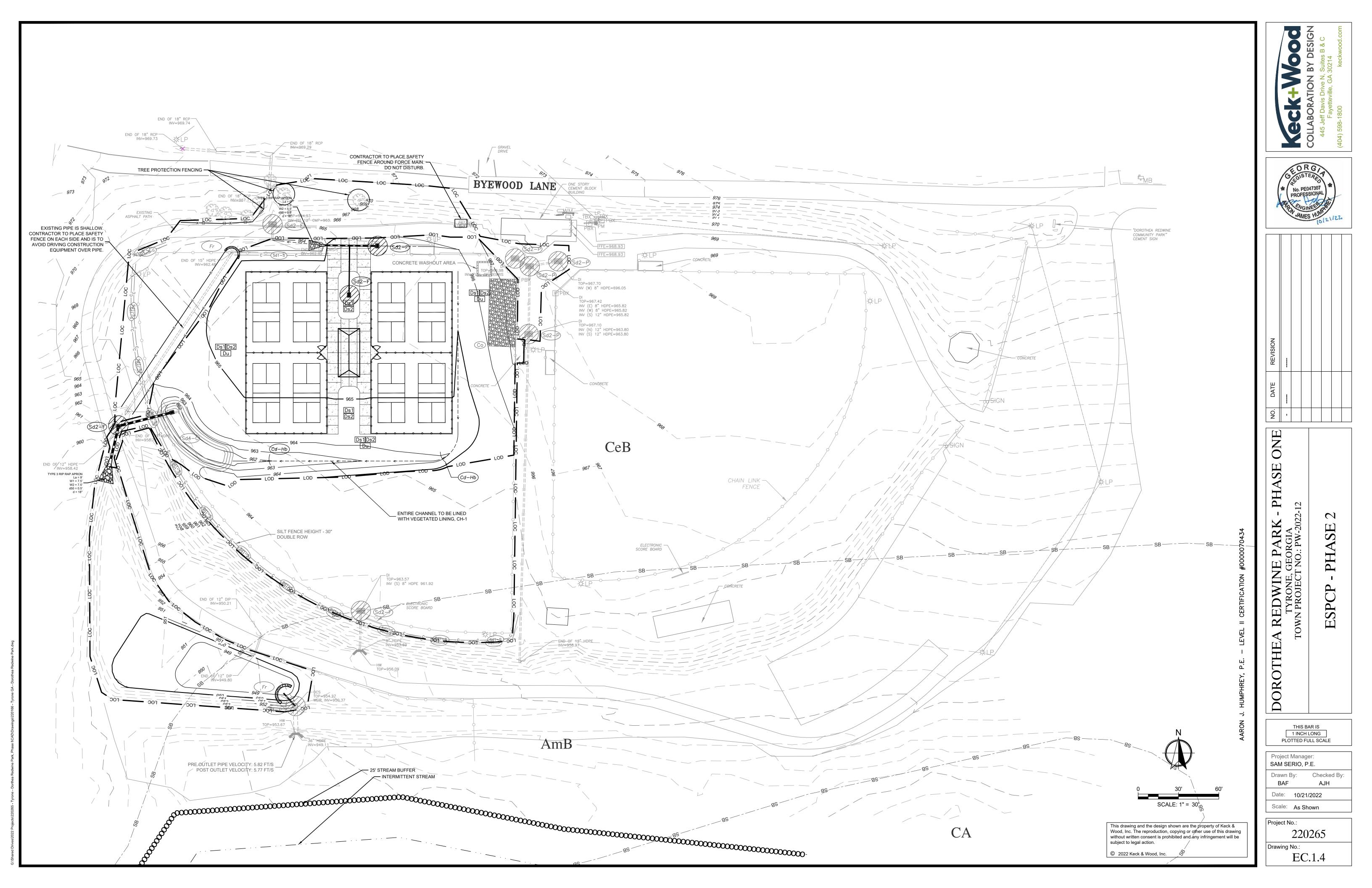


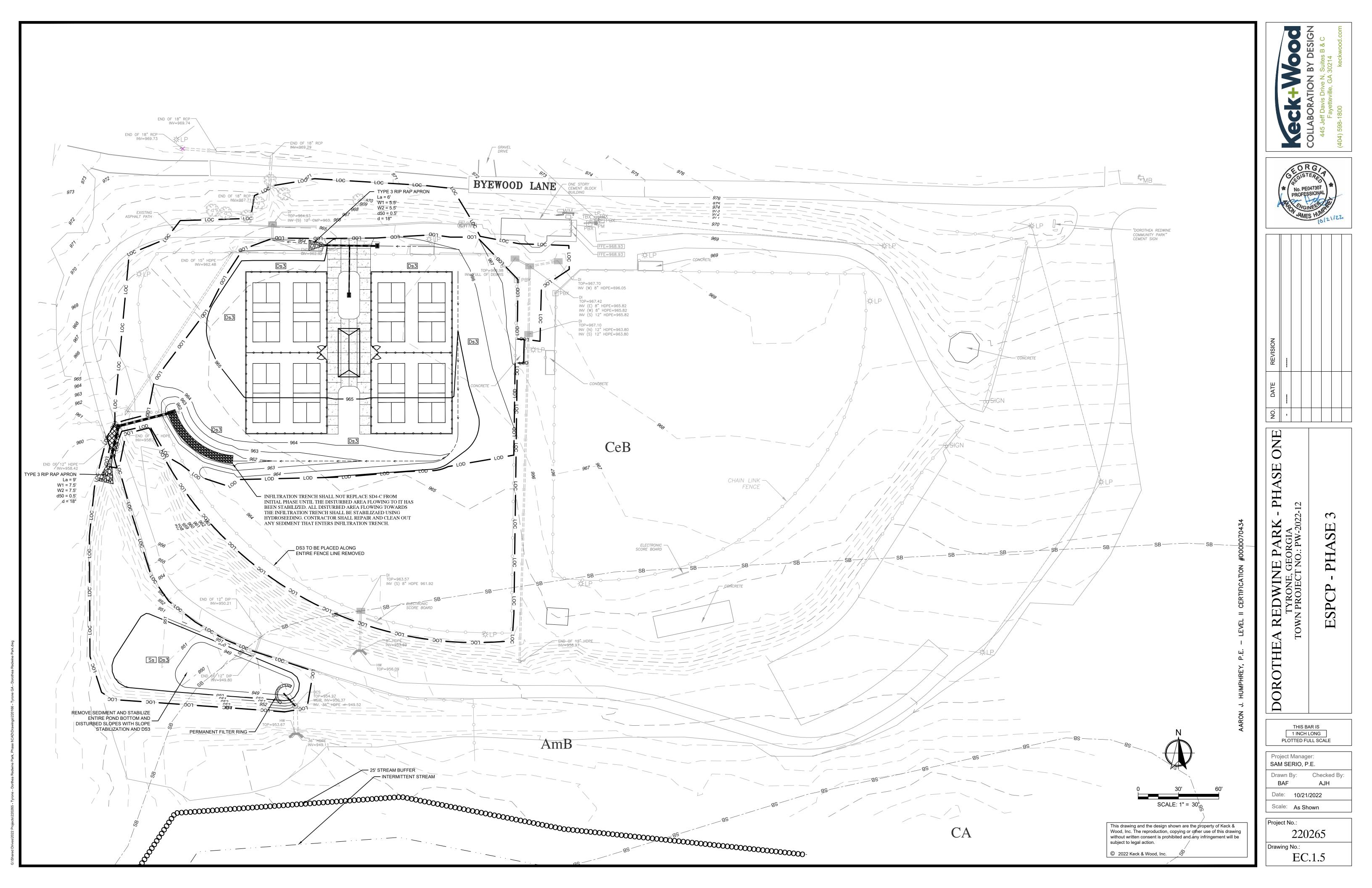
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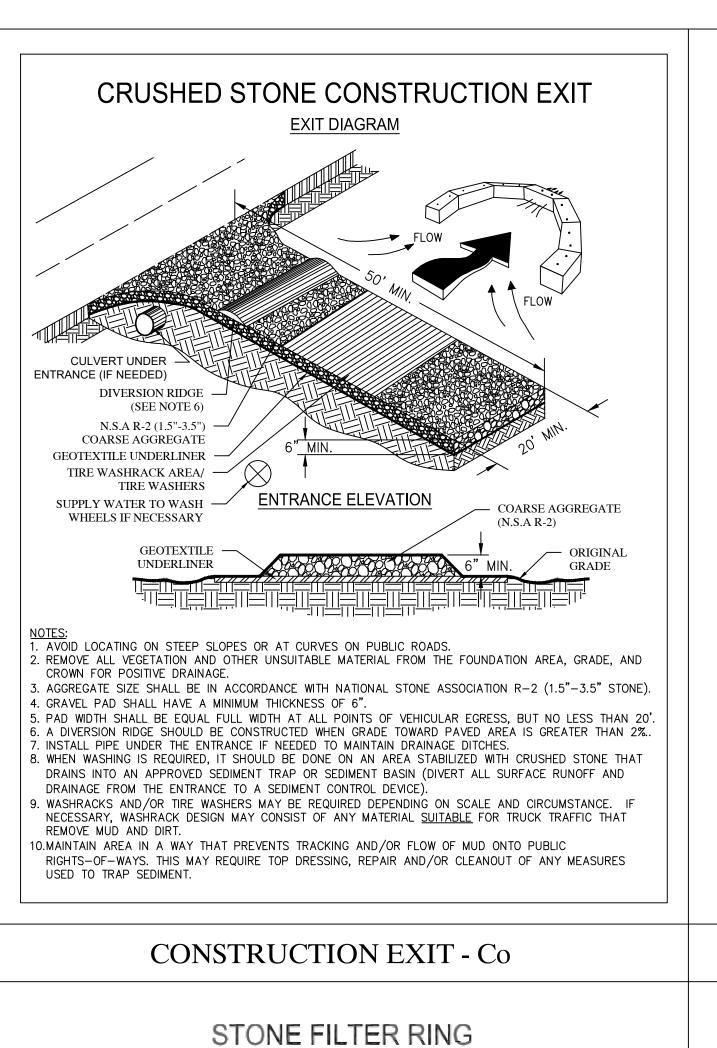
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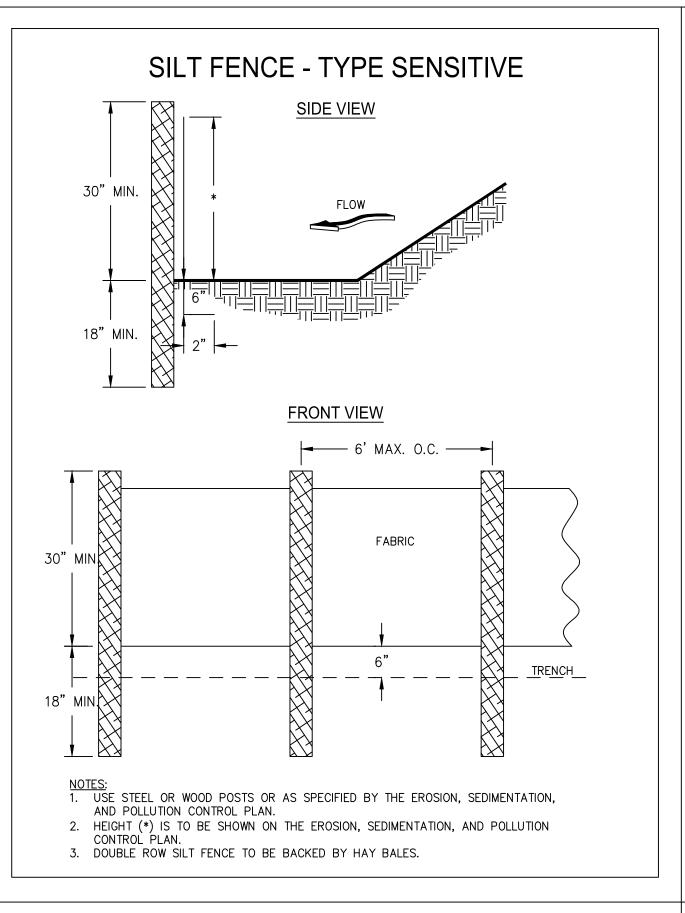
SAM SERIO, P.E.

Checked By: AJH Date: 10/21/2022





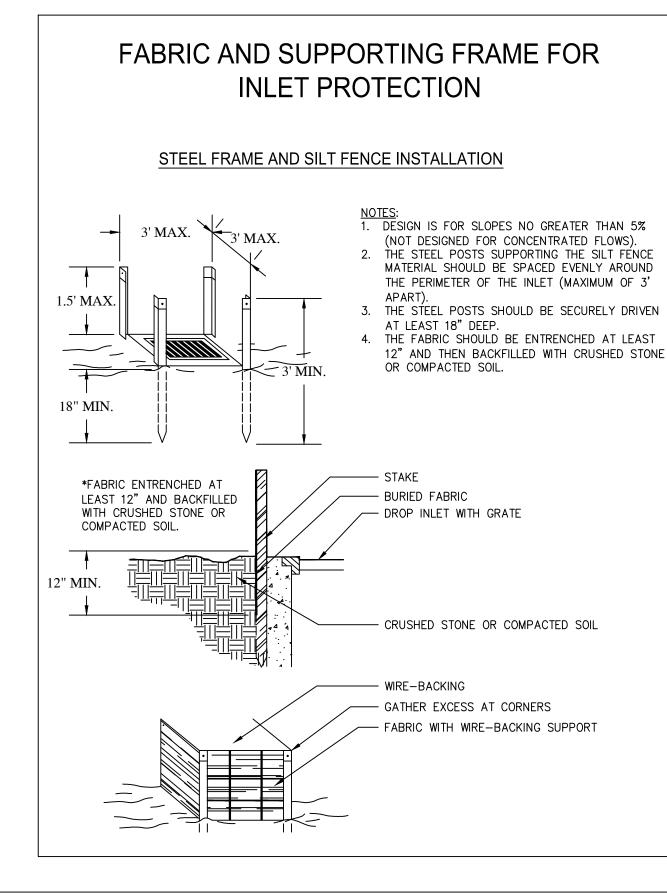


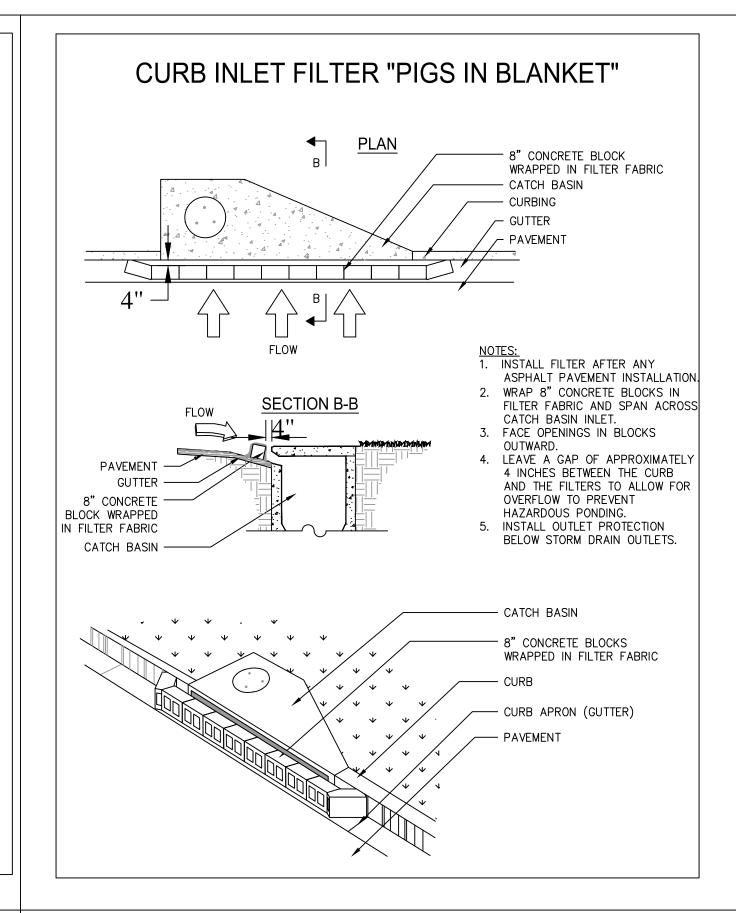


SILT FENCE - SENSITIVE - Sd1-S

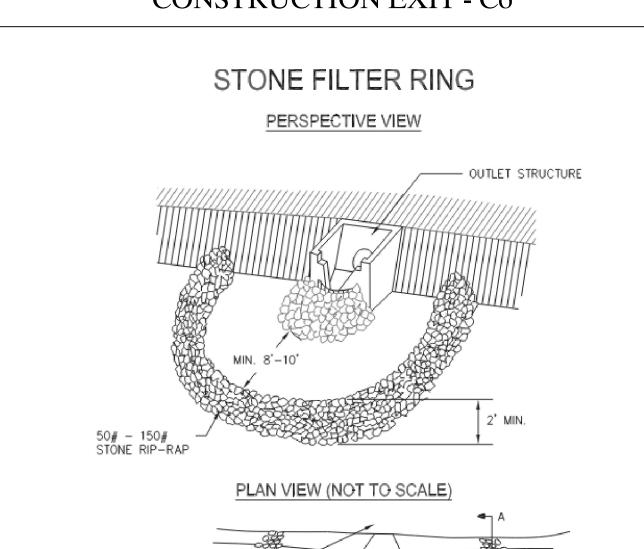
PERFORATED HALF-ROUND PIPE

WITH STONE FILTER

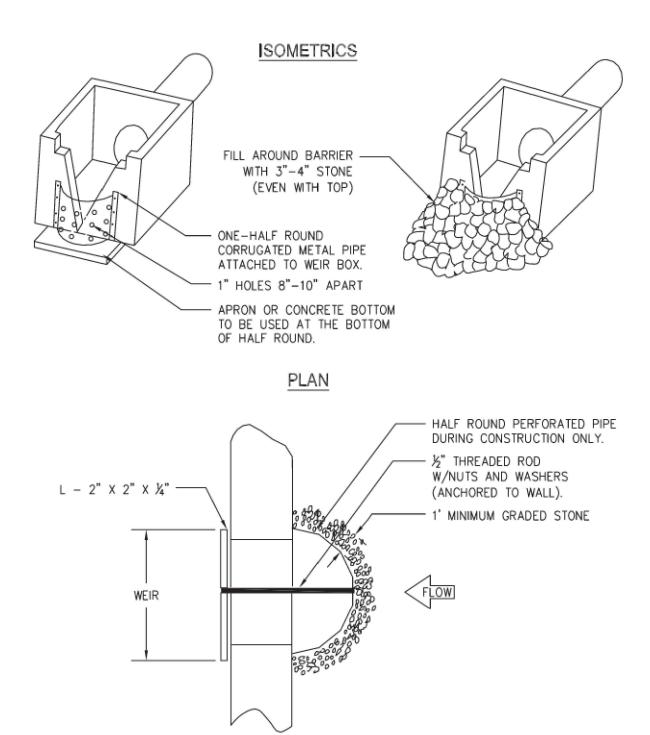


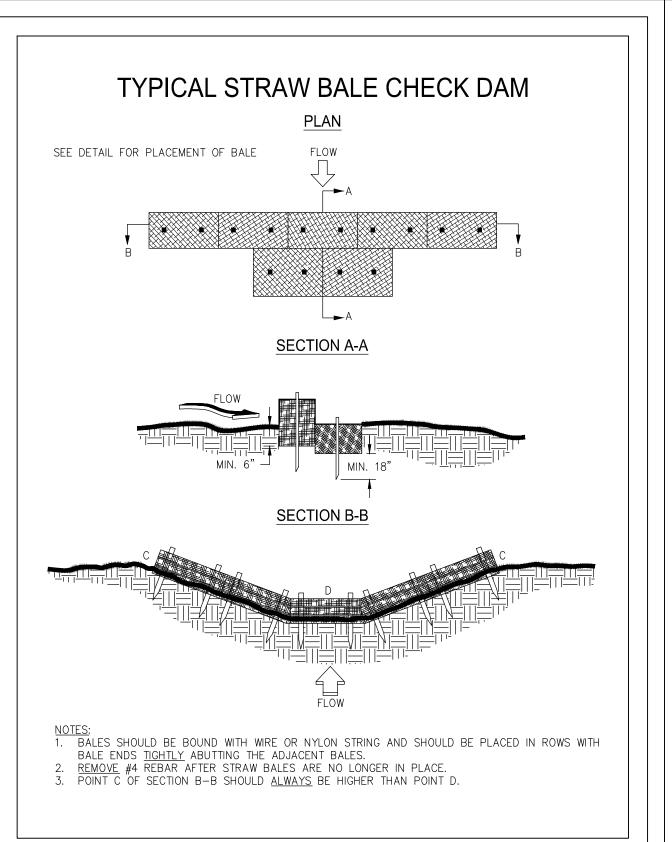


INLET PROTECTION - Sd2-P

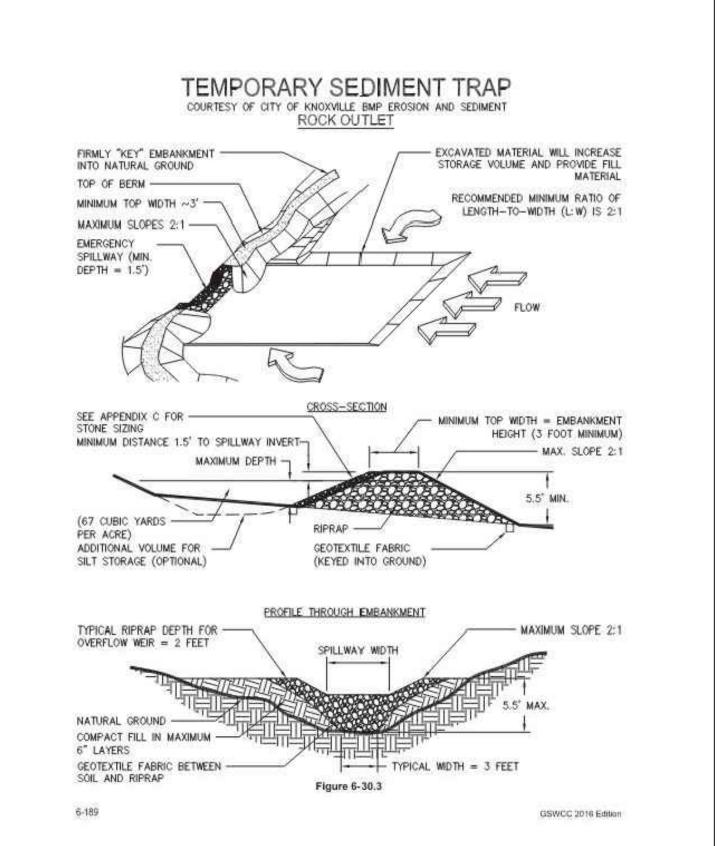


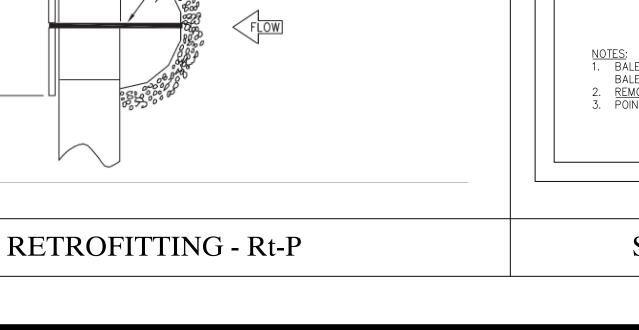
CROSS SECTION (NOT TO SCALE)





INLET PROTECTION - Sd2-F





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SE PHA PARK SORGIA O.: PW-202 REDWINE J DO

1 INCH LONG PLOTTED FULL SCALE Project Manager: SAM SERIO, P.E. Checked By: Drawn By: Date: 10/21/2022 Scale: As Shown

220265

EC.1.6

STRAW BALE CHECK DAM - Cd-Hb

FILTER RING - Fr

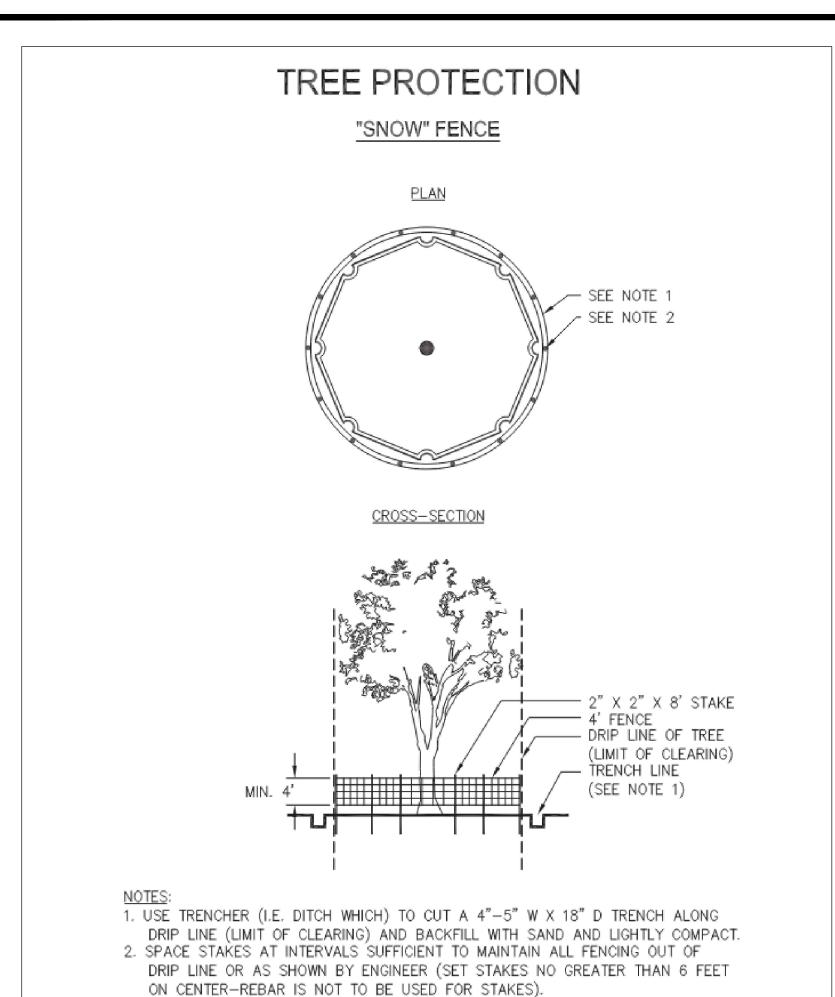
NATURAL GROUND

OUTLET STRUCTURE

STONE FILTER RING

NATURAL GROUND -

OUTLET STRUCTURE -

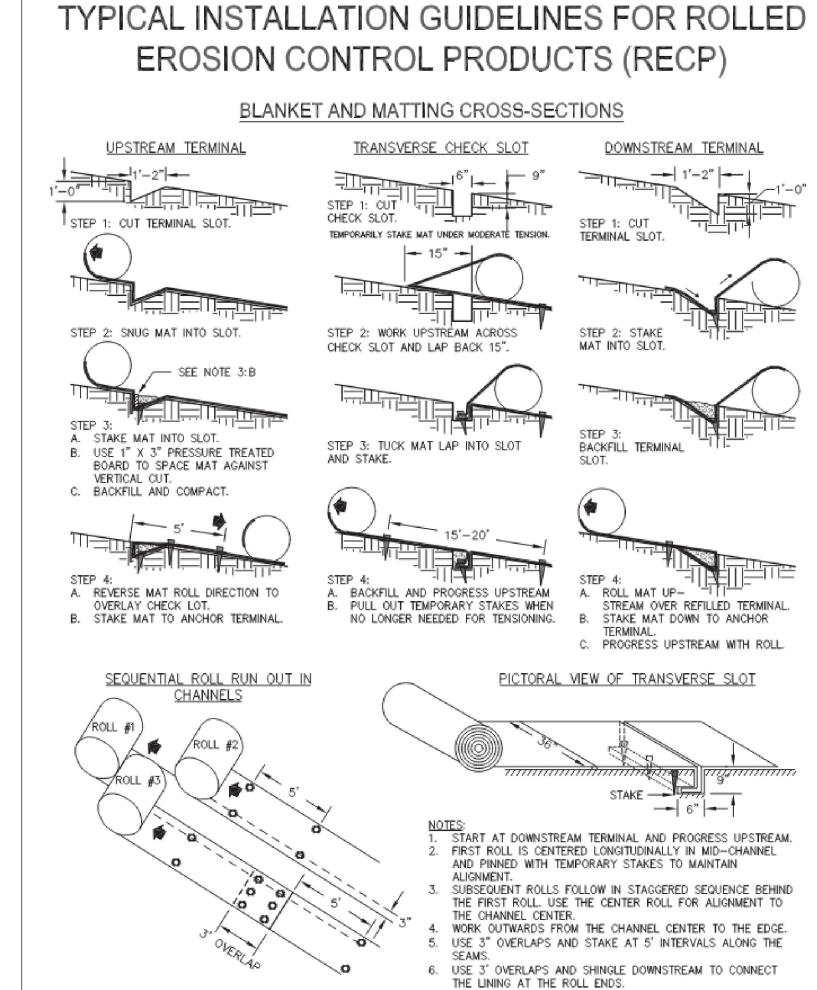


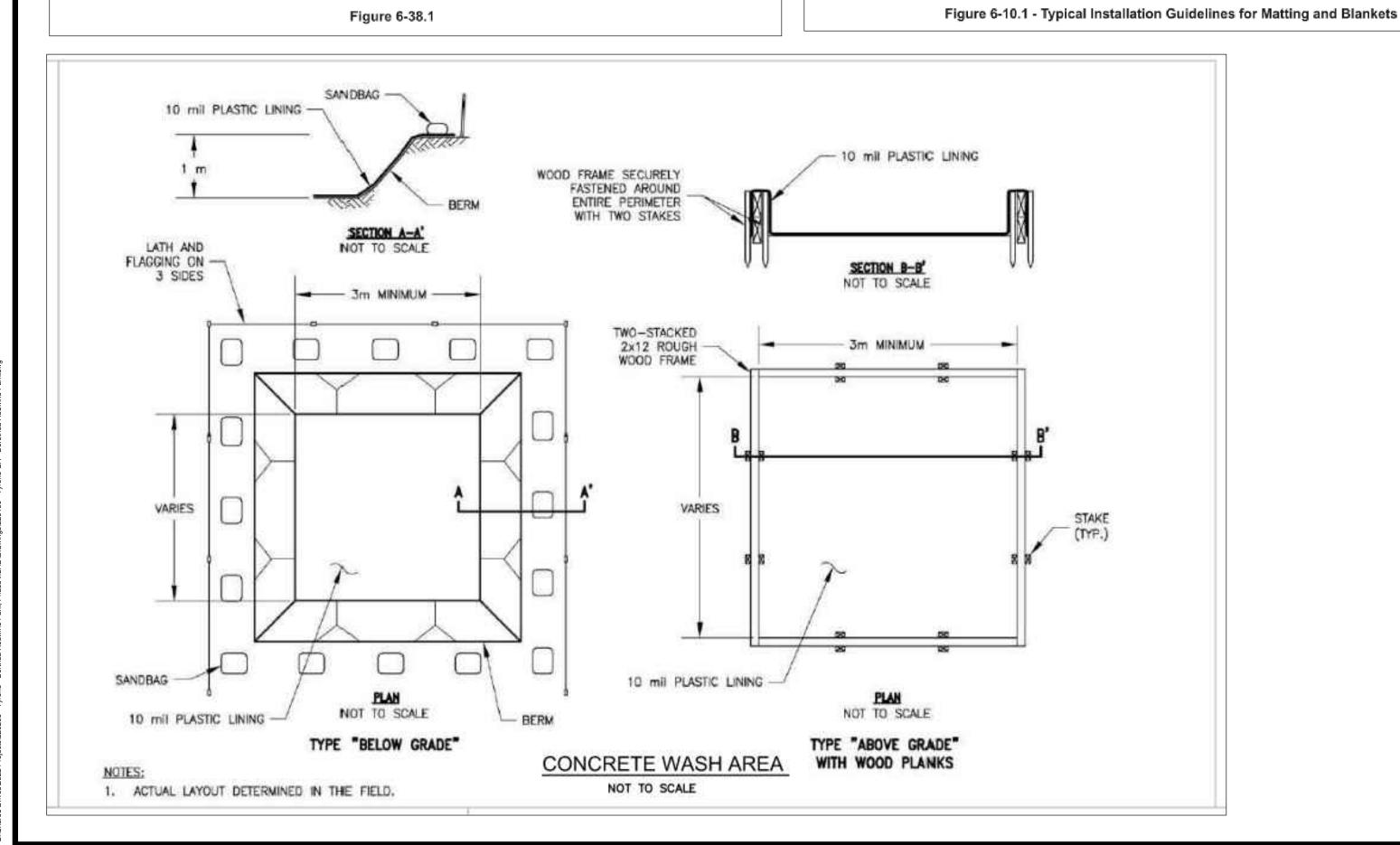
3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT

4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED

REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.

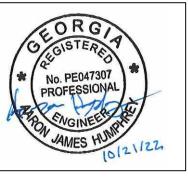
5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.





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SE PHA REDWINE PARK - TYRONE, GEORGIA WN PROJECT NO.: PW-2022-

1 INCH LONG PLOTTED FULL SCALE

Project Manager:

SAM SERIO, P.E.

Checked By:

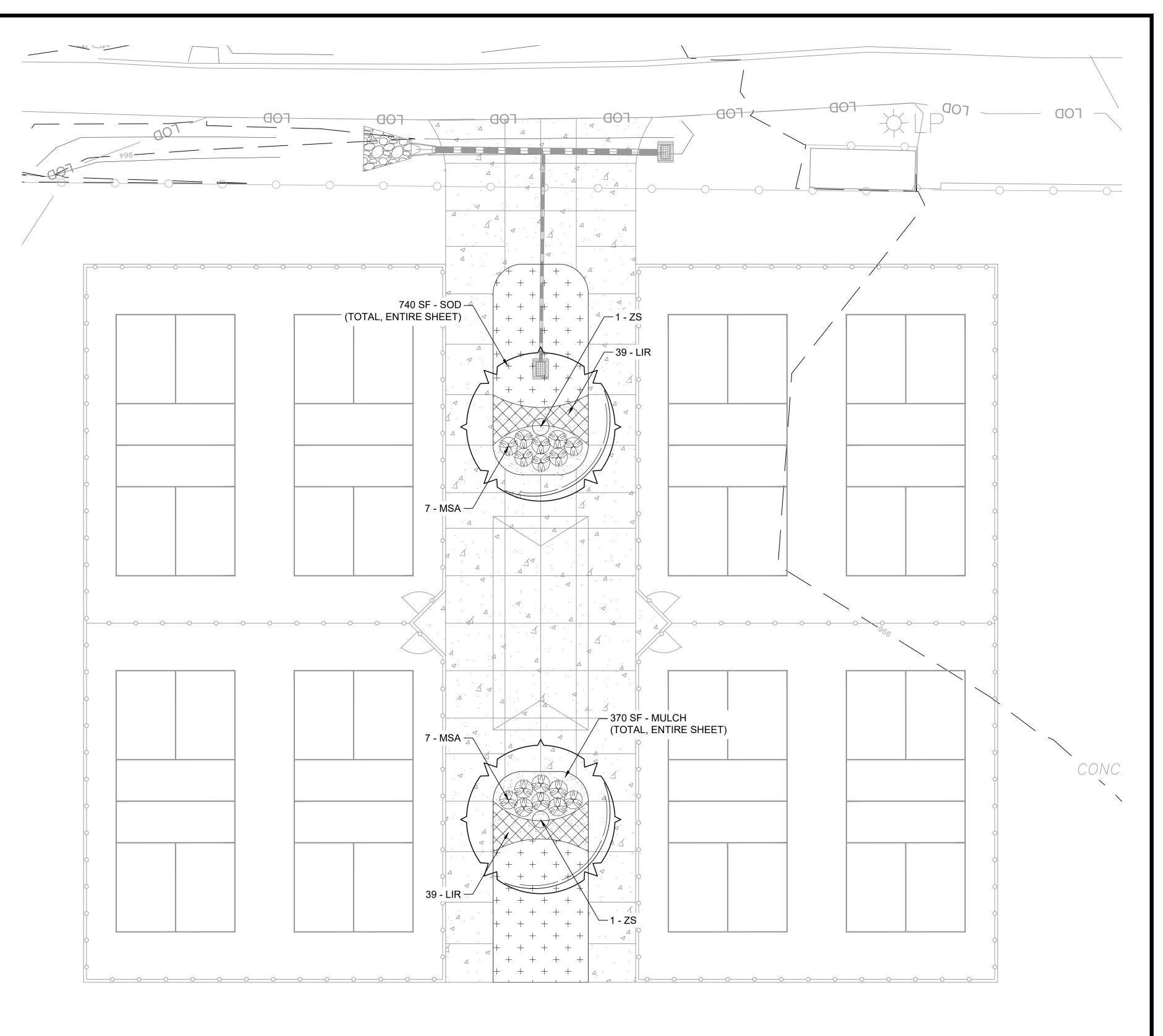
Date: 10/21/2022

Scale: As Shown

LANDSCAPE NOTES

- 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES IN THE PLANT LIST. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- 2. ALL TREES, SHRUBS AND PLANTS SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE PROJECT SPECIFICATIONS.
- 3. ALL PLANT MATERIAL SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
- 4. THE TOP OF ALL ROOT BALLS SHALL BE 2" ABOVE FINISHED GRADE IN WELL DRAINED SOILS. IN POORLY DRAINED SOILS, ROOT BALLS SHALL BE $\frac{1}{4}$ HEIGHT OF ROOT BALL ABOVE FINISHED GRADE.
- 5. ALL ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
- 6. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE/FERTILIZATION/WATERING DURING THE WARRANTY PERIOD.
- MULCH A MIN. 4 FOOT AREA AROUND EACH TREE. MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN, WITHIN 2 DAYS AFTER PLANTS ARE INSTALLED. MULCH SHALL BE 3-4" OF DOUBLE HAMMERED HARDWOOD.
- LANDSCAPE CONTRACTOR SHALL REMOVE TOP 1/3 OF ALL WIRE BASKETS, TOP 1/3 OF BURLAP AND ASSOCIATED TWINE AND STRAPPING FROM TREE ROOT BALLS PRIOR TO FINAL ACCEPTANCE OF PLANTS.
- 9. TOPSOIL SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING ALL PITS AND BED ESTABLISHMENT FOR PLANTS. PROVIDE TOPSOIL WHICH IS FERTILE, FRIABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUB- SOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1" IN ANY DIMENSION, AND OTHER EXTRANEOUS OF TOXIC MATTER HARMFUL TO PLANT GROWTH. TOPSOIL SHALL HAVE 2-5% ORGANIC MATTER(MINIMUM), A 60% MAXIMUM CLAY CONTENT, AND Ph VALVE OF 6-6.5%.
- 10. SOIL AMENDMENT SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING AND BED ESTABLISHMENT. SOIL AMENDMENT SHALL CONSIST OF THE BELOW PERCENTAGES AND HAVE A PH RANGE BETWEEN 5.5 AND 7%. SOIL AMENDMENT SHALL NOT BE USED IN FROZEN OR MUDDY CONDITIONS. CONTRACTOR TO SUBMIT VENDOR INFORMATION FOR ALL SOIL AMENDMENTS. ALL BEDS SHOULD BE TILLED PRIOR TO ADDING PLANTING SOIL. PLANTING SOIL SHALL CONSIST OF 2/3 TOPSOIL AND 1/3 SOIL AMENDMENT. SEE PLANTING BED ESTABLISHMENT DETAIL FOR MORE INFORMATION.
- 11. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.
- 12. CONTRACTOR TO ENSURE POSITIVE DRAINAGE IN ALL PLANTING AREAS AND NO PONDING SHALL OCCUR. POORLY DRAINED SOILS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. ALL POORLY DRAINED SOILS SHALL BE CORRECTED BEFORE PLANTING OCCURS BY IMPORTING SUITABLE SOILS OR ADDING A DRAINAGE SYSTEM.
- 13. ALL PLANTING BEDS SHALL HAVE 50Z. MINIMUM WEED CONTROL FABRIC.
- 14. ALL EXISTING TURF/LAWN/WEEDS SHALL BE ERADICATED FROM PLANTING AREAS BEFORE TILLAGE.
- 15. IF BID ALTERNATE #2 IS NOT SELECTED BY THE TOWN OF TYRONE, THE DISTURBED AREA SHALL BE STABILIZED WITH PERMANENT SEEDING.

Qty.	Symbol	Scientific Name	Common Name	Size	Notes
Trees					
2	ZS	Zelkova serrata	Japanese Zelkova	3" CAL.	10' Min. Ht.
Total	2				
Ornamental G	irasses				
14	MSA	Miscanthus Sinensis 'Adagio'	Dwarf Maiden Grass	3 GAL.	30" Min. Ht.
Total	14				
Total	14				
Groundcovers	;				
78	LIR	Liriope muscari 'Big Blue'	Big Blue Liriope	4" Pot	
Total	78				
Mulch					
370	SF	Long Leaf Pinestraw Mulch			
Total	370				
Lawn					
740	SF	TifTuf Bermuda Grass Sod			
Total	740	Tittal Bollilada Olass Cod	L		



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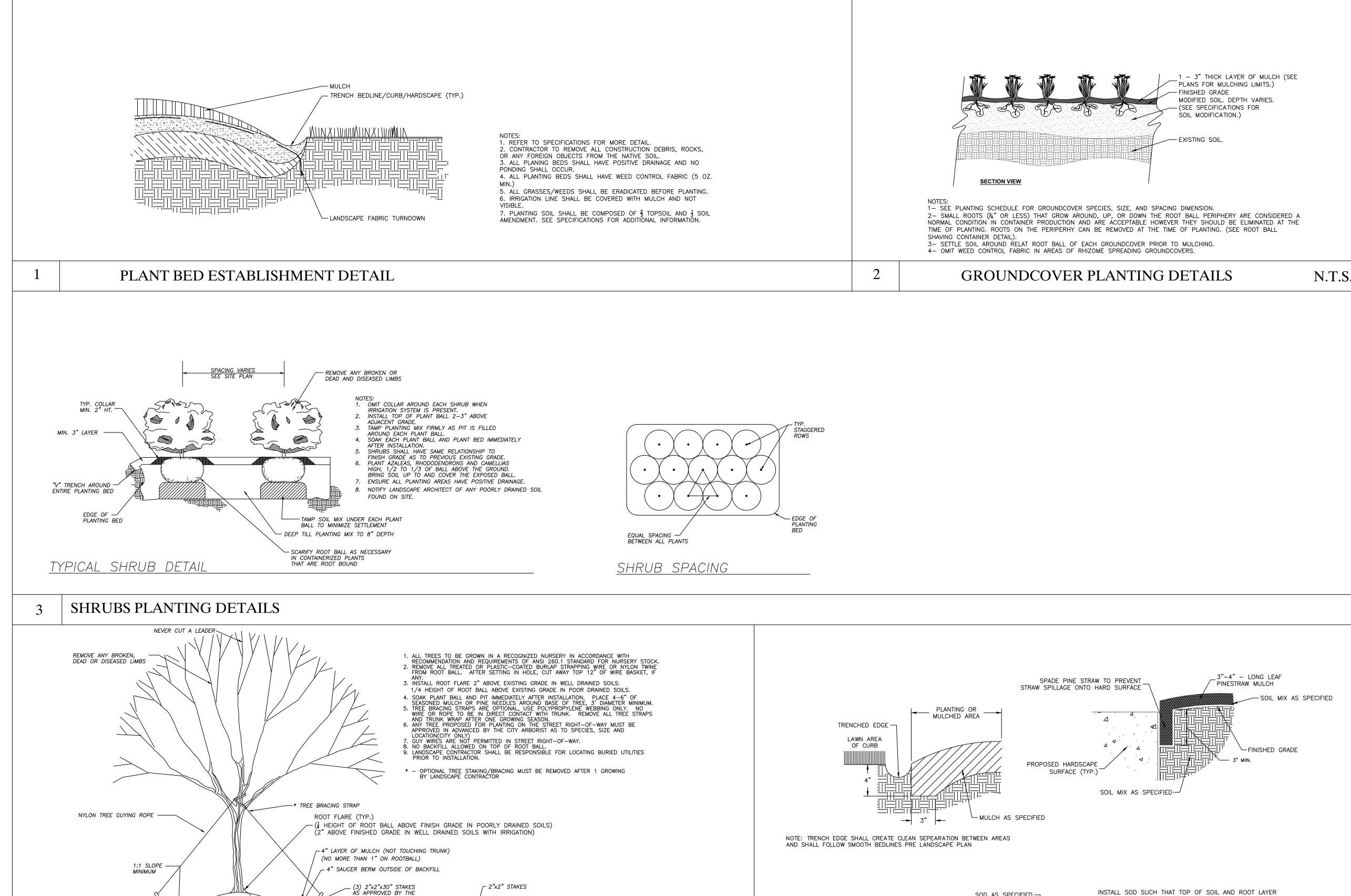
1 INCH LONG PLOTTED FULL SCALE

DOROTHEA REDWINE

Project Manager: SAM SERIO, P.E.

Checked By: AJHDate: 10/21/2022

Scale: As Shown



ALTERNA NINDSCAPE REDWINE OTHE X THIS BAR IS 1 INCH LONG PLOTTED FULL SCALE Project Manager: SAM SERIO, P.E. Drawn By: Checked By: AJHDate: 10/21/2022 Scale: As Shown Wood, Inc. The reproduction, copying or other use of this drawing Drawing No.:

PARK SORGIA O.: PW-2022

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TREE PLANTING DETAILS

FINISH GRADE -

REMOVE A MINIMUM OF —— TOP 12" OF WIRE BASKETS ON ALL B&B TREES

STANDARD TREE DETAIL

LANDSCAPE ARCHITECT

PLANTING SOIL MIX

-REMOVE TOP 1/3 OF BURLAP FROM B&B TREES

TAMP SOIL MIX UNDER BALL TO MINIMIZE SETTLEMENT

- SAUCER BERM

OF MULCH

-PREPARED

PLANTING MIX

TURF SOD AND MULCH DETAILS

CULTIVATE EXISTING SOIL

TO A DEPTH OF 4"

TOPSOIL WITH AMENDMENTS AS SPECIFIED -

SOD AS SPECIFIED -

N.T.S.

— PAVEMENT

INSTALL SOD SUCH THAT TOP OF SOIL AND ROOT LAYER

__ IS LEVEL WITH TOP OF PAVEMENT/ FINISH GRADE