

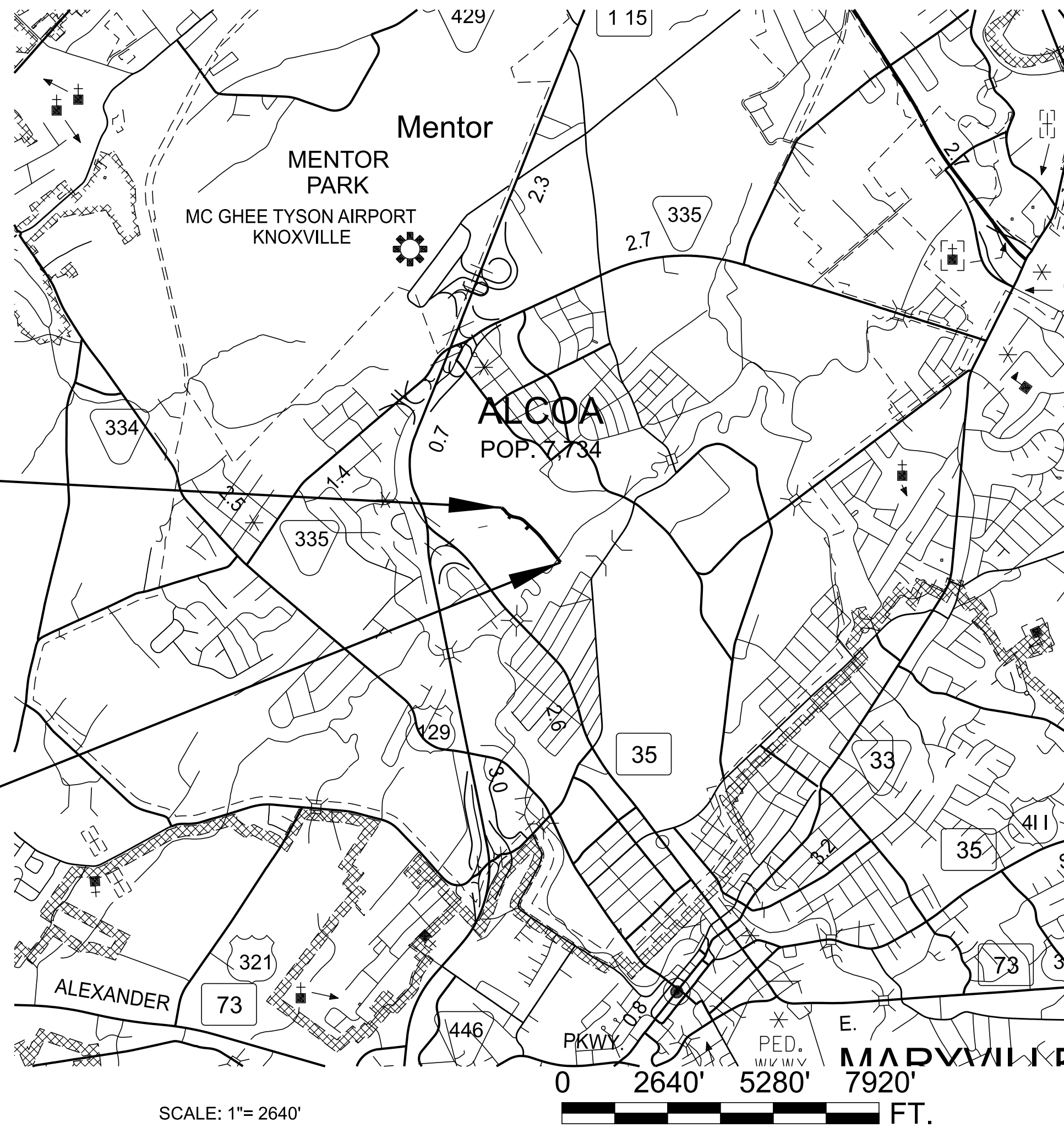
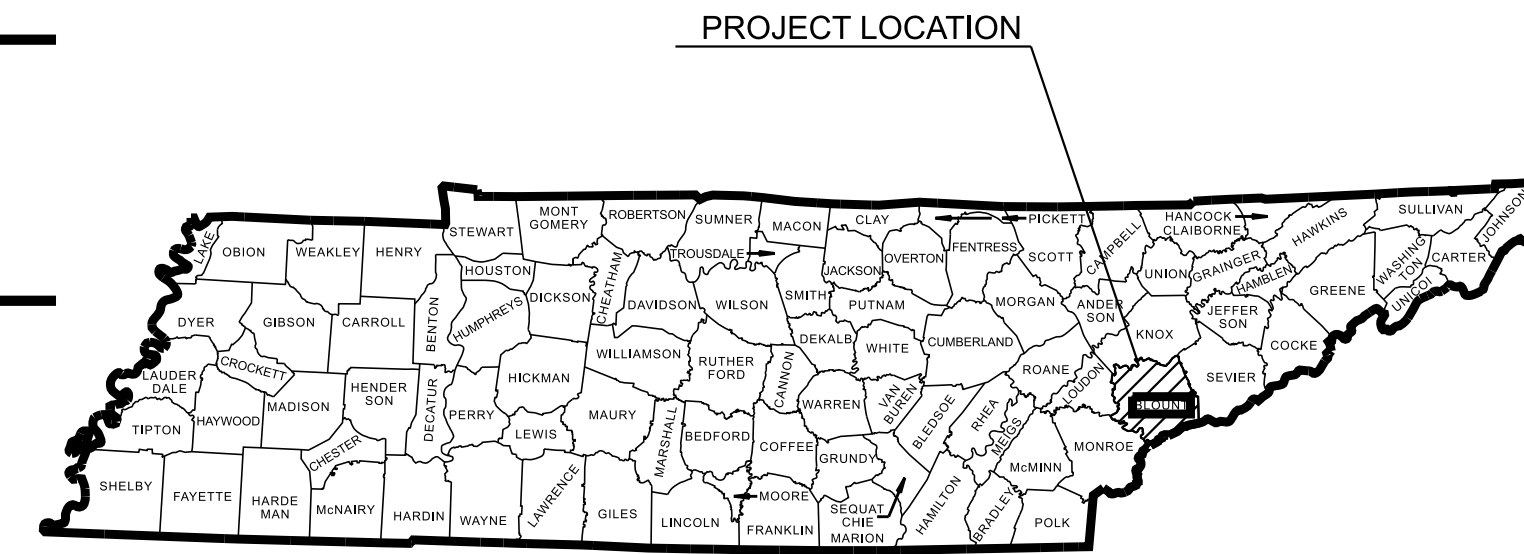
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CITY OF ALCOA DRAINAGE INFRASTRUCTURE FOR WERNER AVENUE

FROM FARADAY STREET
TO PISTOL CREEK

CONSTRUCTION
GRADE, DRAIN



NO EXCLUSIONS

BEGIN PROJECT NO. CONSTRUCTION
STA. 0+35.47 WERNER PROPOSED
N 536167.2533 E 2566049.3963

END PROJECT NO. CONSTRUCTION
STA. 20+48.19 WERNER PROPOSED
N 534827.8559 E 2567491.4186

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

DESIGNER : JAKE GRAVES, P.E. CHECKED BY : BEN COLES, P.E.

R.O.W. LENGTH 0.377 MILES
DRAINAGE PROJECT LENGTH 0.334 MILES

APPROVED: _____ LOCAL OFFICIAL

DATE: _____

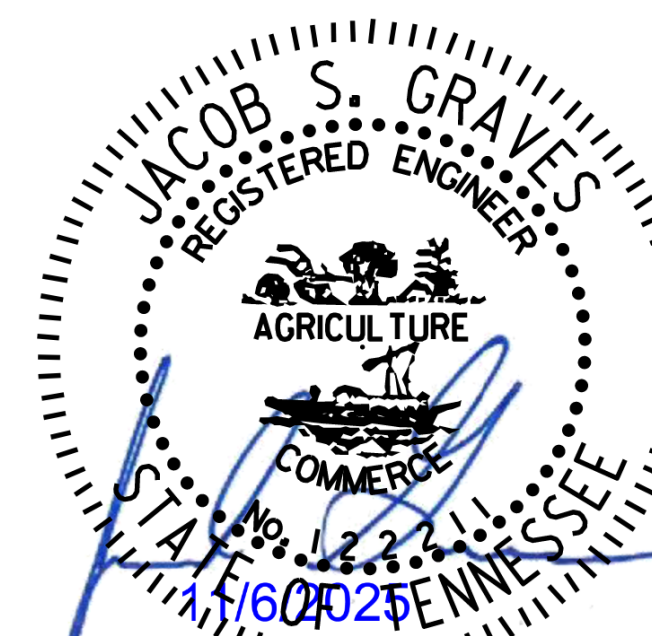
SURVEY 09-02-25	TRAFFIC DATA
UPDATED 09-18-25	ADT (2025) 0
UPDATED 10-20-25	V N/A

COORDINATES ARE NAD(83/2011) ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING GEOID 2012B MODEL, OBTAINED ON 09-02-2025.



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STORMWATER DRAINAGE INFRASTRUCTURE
WERNER AVENUE
BLOUNT COUNTY, TENNESSEE



TITLE SHEET

1

PROJECT: 47653.02
YEAR: 2025

STANDARD ROADWAY DRAWINGS

DWG. NO.	REV.	DESCRIPTION
10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

10-102.00 AQUATIC ORGANISM PASSAGE (AOP) DESIGN, PIPE CULVERTS, AND ENDWALLS

D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)

10-104.00 CATCH BASINS AND MANHOLES

D-CBB-12A	06-28-19	TYPE 'B' CAST IRON FRAME, GRATE & VERTICAL INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
D-RL-1		ROUND LID DETAILS FOR SINGLE CURB AND WALL INLET
D-RS-1		PRECAST ROUND STRUCTURES (48" THRU 120")
D-RS-2		PRECAST ROUND STRUCTURES REINFORCEMENT DETAILS
D-RS-3		MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-MH-2	02-20-20	STANDARD PRECAST NO. 3 MANHOLE
D-MH-3	02-20-20	TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE
D-MH-4	02-20-20	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-RMH-1		PRECAST MANHOLE STRUCTURES (48" THRU 120")
D-RF-1	07-30-24	STANDARD PRECAST RISER

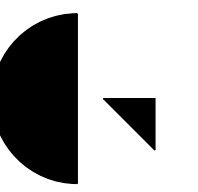
10-106.00 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

S-F-1	03-01-23	HIGH VISIBILITY FENCE
-------	----------	-----------------------

10-109.00 EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6	11-30-20	ROCK CHECK DAM

DWG. NO.	REV.	DESCRIPTION
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD



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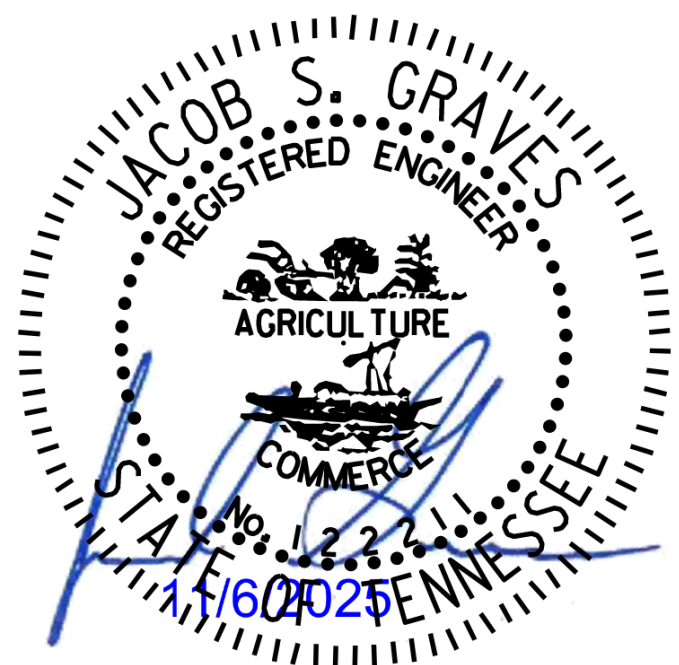
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STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

SEALED BY



STANDARD DRAWING
INDEX

1A

SCALE: 1"=50'
PROJECT: 47653.02
YEAR: 2025

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TN ALCOA PRIMARY LLC QUANTITY	CITY OF ALCOA QUANTITY
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.1	0.9
5	201-01	CLEARING AND GRUBBING	LS	1
14	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
6	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	9850
16	203-01.29	ROCK EXCAVATION	C.Y.	669
17	203-10.15	WASTE MATERIAL	C.Y.	100
7	203-50	CONSTRUCTION OF HAUL ROAD	LS	1
1,2	209-05	SEDIMENT REMOVAL	C.Y.	112
1,2,9	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1570
1,2	209-08.07	ROCK CHECK DAM	EACH	2
1,2	209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
1,2	209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH	2
1,2	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	11
1,2	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	12
15	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	20
3	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	12
3	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	22
3	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	149
3	607-08.03	42" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	198
3	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	612
3	607-10.02	54" CONCRETE PIPE CULVERT (CLASS III)	L.F.	165
8	611-01.20	ADJUSTMENT OF EXISTING MANHOLE	EACH	2
	611-07.01	CLASS "A" CONCRETE (PIPE ENDWALLS)	C.Y.	13
	611-07.02	STEEL BAR REINFORCING (PIPE ENDWALLS)	LB	620
10,11	611-60.10	CATCH BASIN, 60IN ROUND, >4FT-8FT DEPTH	EACH	1
10,11	611-60.22	CATCH BASIN, 72IN ROUND, >12FT-16FT DEPTH	EACH	1
10,11	611-60.32	CATCH BASIN, 84IN ROUND, >12FT-16FT DEPTH	EACH	2
10,11	611-60.42	CATCH BASIN, 96IN ROUND, >12FT-16FT DEPTH	EACH	1
10,11	611-60.43	CATCH BASIN, 96IN ROUND, >16FT-20FT DEPTH	EACH	1
10,11	611-62.32	MANHOLE STRUCTURE, 84IN ROUND, >12FT-16FT DEPTH	EACH	2
10,11	611-62.42	MANHOLE STRUCTURE, 96IN ROUND, >12FT-16FT DEPTH	EACH	2
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	700
1,2,4	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
1,2,4	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	307
12	795-14.05	CONCRETE ENCASEMENT	L.F.	10
	717-01	MOBILIZATION	LS	0.1
4,13	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	1286
1,2,9	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	3110
1,2	801-01	SEEDING (WITH MULCH)	UNIT	115
1,2	801-02	SEEDING (WITHOUT MULCH)	UNIT	28
1,2,44	801-03	WATER (SEEDING & SODDING)	M.G.	15
1,2	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	3112

ROADWAY QUANTITY FOOTNOTES

- SEE SUBSECTION 209.07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT
- ALL QUANTITIES ARE TO BE DIRECTED BY THE ENGINEER
- BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PIPE
- GEOTEXTILE TO BE PLACED UNDER ALL RIP-RAP
- INCLUDES REMOVAL OF EXISTING CHAIN LINK OR FARM FENCING, IF REMAINING, IS TO BE REMOVED BY THE CONTRACTOR IF LOCATED WITHIN ROW OR PROJECT EASEMENTS.
- INCLUDES 270 CY TO BE USED FOR EPSC & 9,580 CY FOR PROPOSED ROUGH GRADING TO BE STOCKPILED
- ITEM NUMBER 203-50 SHALL INCLUDE APPROXIMATELY 1870 SY GEOTEXTILE (IV), 91 TONS MACHINED RIPRAP A-1, 34 TONS MINERAL AGGREGATE (SIZE 57). THE MINERAL AGGREGATE INCLUDES AN ADDITIONAL TEN (10) PERCENT FOR MAINTENANCE.
- SEE CATCH BASIN AND MANHOLE TABLE FOR DETAILS FOR ADJUSTMENT OF STRUCTURES
- PROVIDE J HOOKS WHEN BMP IS NOT PARALLEL TO CONTOURS.
- DRAINAGE STRUCTURE SIZES & DIAMETERS ARE SHOWN IN CATCH BASIN TABLE ON SHEET 2
- CONTRACTOR TO PROVIDE FRAME/GRATE AND FRAME/LID FOR PROPOSED STRUCTURES. STRUCTURE GRATES IN THE FUTURE ROADWAY ARE NOT BE PERMANENTLY AFFIXED TO STRUCTURES.
- ITEM TO BE USED FOR CONCRETE ENCASEMENT OF THE EXISTING SANITARY SEWER CROSSING AS NOTED ON SHEET 5B
- INCLUDES 343 S.Y. FOR EPSC AND 210 S.Y. FOR PERMANENT ENDWALL ENERGY DISSIPATION APRONS, AND 733 S.Y. TO BE USED FOR REPLACEMENT OF EXISTING GRAVEL DRIVEWAY ON TRACT 6
- INCLUDES REMOVAL OF THE EXISTING STORM INFRASTRUCTURE ADJACENT TO MH1 AS NOTED ON SHEET 4. STRUCTURES AND SALVAGEABLE PIPE ARE TO BE REMOVED BECOME PROPERTY OF THE CITY OF ALCOA.
- ITEM TO BE USED FOR REPLACEMENT OF EXISTING GRAVEL DRIVEWAY ON TRACT 6
- ITEM TO BE USED FOR TRENCH ROCK EXCAVATION FOR INSTALLATION OF PROPOSED STORMWATER PIPE AND STRUCTURES.
- INCLUDES CONTAINMENT AND DISPOSAL OF CONTAMINATED SOILS. SEE SPECIAL NOTES ON SHEET 8.

REVISION: 11/12/2025
 REVISED FOOTNOTE 10 & 13.
 ADDED ITEM NO. 203-01.29 &
 203-10.15.
 ADDED FOOTNOTES 16 & 17



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STORM DRAINAGE PIPES

SHEET NO.	FROM		TO		% GRADE	RCP CLASS III					RCP CLASS IV	REMARKS	
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		607-05.02 (L.F.)	607-06.02 (L.F.)	607-08.02 (L.F.)	607-09.02 (L.F.)	607-10.02 (L.F.)	607-08.03 (L.F.)		
4B	CB5	879.38	CB6	878.99	0.54%							PIPE NOT TO BE INSTALLED. ONLY FOR REFERENCE FOR CUT HOLE CONNECTING TO CB6	
4B	MH1	869.21	MH2	868.02	0.80%			149					
4B	MH2	867.69	CB6	866.25	0.73%						198		
5B	CB6	865.92	CB7	863.89	0.76%						260		
5B	MH3	868.75	CB8	867.50	2.51%	12						INSTALL 12 LF OF PIPE AT PROPOSED GRADE TOWARD FUTURE MH3 AND PLUG END OF PIPE. DEVELOPER WILL COMPLETE AND CONNECT TO FUTURE MH 3. TOTAL LENGTH OF FUTURE PIPE WILL BE 50 LF.	
5B	CB8	867.30	CB7	867.08	1.04%		22						
5B	CB7	859.02	CB9	858.10	0.70%				125				
5B	CB9	852.23	MH-3A	851.19	0.72%				138				
5B	MH4	845.96	CB12	845.51	0.76%				53				
5B	CB12	845.22	CB13	843.99	0.76%				156				
5B	CB13	843.70	MH5	842.59	0.76%				140				
5B	MH5	842.09	EW1	841.25	0.50%					165			
TOTALS						12	22	149	612	165	458		

STORM DRAIN ENDWALLS

LOCATION \ SHEET NO.	STATION	OFFSET (FT.)	SKEW	CODE	TYPE	STANDARD DRAWING NO.	RIP-RAP CLASS "B" (TON)	PROTECTED ENDWALLS CLASS "A" CONCRETE (C.Y.)	STEEL BAR REINFORCING 611-07.01 (LB.)
WERNER	19+92.72	5.62 RT	75°	EW-1	PEW	D-PEW-1, D-PEW-2	307	12.3	620
TOTALS							307.0	13.0	620

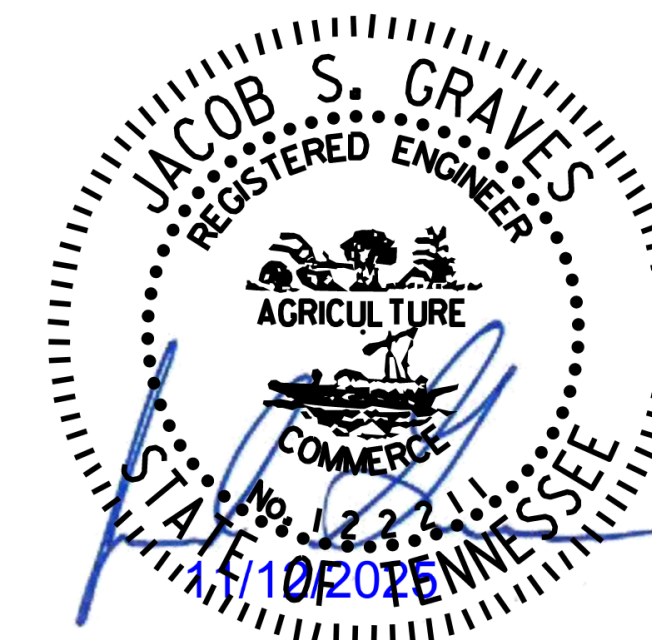
CATCH BASINS AND MANHOLES

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH TO INVERT (FT.)	STRUCTURE PAYMENT DEPTH (FT.)	STANDARD DRAWINGS	60" DIA.	72" DIA.	84" DIA.	96" DIA.	96" DIA.	84" DIA.	96" DIA.	ADJUST STRUCTURE	REMARKS	
											C.B. 611-60.10 4' - 8'	C.B. 611-60.22 12' - 16'	C.B. 611-60.32 12' - 16'	C.B. 611-60.42 12' - 16'	C.B. 611-60.43 16' - 20'	M.H. 611-62.32 12' - 16'	M.H. 611-62.42 12' - 16'			
4B	WERNER	2+84.92	91.39	MH-1A	886.96	MH	-	14.86	N/A	D-RMH-1								1	ADJUST STRUCTURE HEIGHT TO PROPOSED FINISHED GRADE. CONTRACTOR TO FIELD VERIFY RISERS/SECTIONS REQUIRED. REMOVE FRAME AND GRATE AND INSTALL FRAME AND MH LID	
4B	WERNER	6+82.67	289.05	MH1	881.44	MH	8' DIA	12.23	13.31	D-RMH-1								1		
4B	WERNER	8+02.11	189.31	MH2	882.56	MH	8' DIA	14.87	15.95	D-RMH-1								1		
4B	WERNER	8+18.00	-13.96	CB6	883.55	#12	8' DIA	17.63	18.71	D-RL-1					1				ADDITIONAL 18" RCP WILL BE ADDED CONNECTING TO CB5. CUT HOLE TO BE FORMED AND GROUTED SOLID	
5B	WERNER	10+79.50	67.56	MH3	880.75	MH	5' DIA	11.8	N/A	N/A									STRUCTURE NOT TO BE INSTALLED. USE LOCATION INFORMATION FOR STORM PIPE STUB	
5B	WERNER	10+85.00	-14.88	CB7	872.69	#12	8' DIA	13.67	14.75	D-RL-1					1					
5B	WERNER	10+85.00	13.96	CB8	872.71	#12	5' DIA	5.41	6.49	D-RL-1	1									
5B	WERNER	12+15.00	-20.07	CB9	864.79	#12	6' DIA	12.56	13.64	D-RL-1			1							
5B	WERNER	13+56.62	-36.22	MH-3A	858.31	MH	8' DIA	11.37	N/A	D-MH-3								1	STRUCTURE IS EXISTING. ITEM NUMBER TO BE USED FOR CORING PROPOSED 48" RCP FROM CB9 & ADJUSTMENT OF STRUCTURE HEIGHT TO PROPOSED FINISHED GRADE. CONTRACTOR TO FIELD VERIFY RISERS/SECTIONS REQUIRED.	
5B	WERNER	14+65.12	-39.38	MH4	858.25	MH	7' DIA	12.29	13.37	D-RMH-1						1				
5B	WERNER	15+20.16	-24.54	CB12	857.5	#12	7' DIA	12.28	13.36	D-RL-1										
5B	WERNER	16+82.81	-27.81	CB13	856.53	#12	7' DIA	12.83	13.91	D-RL-1										
5B	WERNER	18+27.10	9.08	MH5	855.5	MH	7' DIA	13.41		D-RMH-1								1		
TOTALS											1	1	2	1	1	2	2	2		

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE
 BLOUNT COUNTY, TENNESSEE

SEALED BY



ESTIMATED & TABULATED QUANTITIES

2

PROJECT: 47653.02
 YEAR: 2025

GENERAL NOTES

GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

- (1) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

DRAINAGE

- (1) EXCAVATION FOR ALL DRAINAGE PIPE CULVERTS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.
- (2) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- (3) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT WILL BE MADE DUE TO SUCH CHANGE.
- (4) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

MISCELLANEOUS

- (1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

SPECIAL NOTES

GRADING

- (1) SOIL IS CONSIDERED SUSPECT IF IT HAS NOTICEABLE ODOR (OILY OR SOLVENT SMELL), IF IT IS VISIBLY STAINED, DISCOLORED, OR SHINY, OR IF IT CONTAINS UNUSUAL THICKNESSES OF SLAG OR NON-EXEMPT DEBRIS. IF SUSPECT SOIL IS ENCOUNTERED, CONTACT THE DESIGNATED ENVIRONMENTAL CONSULTANT.
- (2) EXCAVATION IS NOT ALLOWED IN THE AREAS MARKED "NO DIG AREA" ON THE PRESENT LAYOUT SHEETS. ONLY CLEARING AND GRUBBING OF EXISTING TOPSOIL WILL BE ALLOWED TO A DEPTH OF 3 INCHES. IF EXCAVATION IS UNAVOIDABLE IN ANY OF THESE AREAS, CONTRACTOR SHALL FOLLOW TDEC APPROVED SITE-SPECIFIC SOILS MANAGEMENT PLAN FOR EXCAVATION AND REMOVAL OF SUSPECT SOILS.
- (3) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- (4) EARTHWORK IS PAID FOR UNDER ITEM NO. 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

ENVIRONMENTAL NOTES

NATURAL RESOURCES

- (1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- (2) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.
- (3) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT TDEC IMMEDIATELY.

SPECIES

- (1) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT TDEC AND THE CITY OF ALCOA TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

SUPPORT ACTIVITIES

- (1) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE CITY OF ALCOA RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

ENVIRONMENTAL

- (1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL SPECIAL NOTES

- (1) STAFF FROM THE TDEC SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

SCOPE OF WORK

- (1) WORK FOR THIS PROJECT INCLUDES CLEARING AND GRUBBING, CONSTRUCTION OF A HAUL ROAD, STORMWATER DRAINAGE INFRASTRUCTURE INSTALLATION TO PREPARE FOR THE WERNER AVENUE ROADWAY PROJECT, MASS GRADING FOR WERNER AVENUE ROADWAY PROJECT, AND FINAL STABILIZATION.

INSPECTION, MAINTENANCE & REPAIR

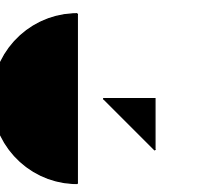
- (1) REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN FOR SWPPP, PERMITS, AND RECORDS NOTES.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (1) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED

STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.

- (2) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.
- (3) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.
- (4) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (5) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- (6) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (7) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (8) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (9) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (10) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (11) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.
- (12) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.
- (13) STORMWATER WHICH COLLECTS IN THE STORMWATER TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.



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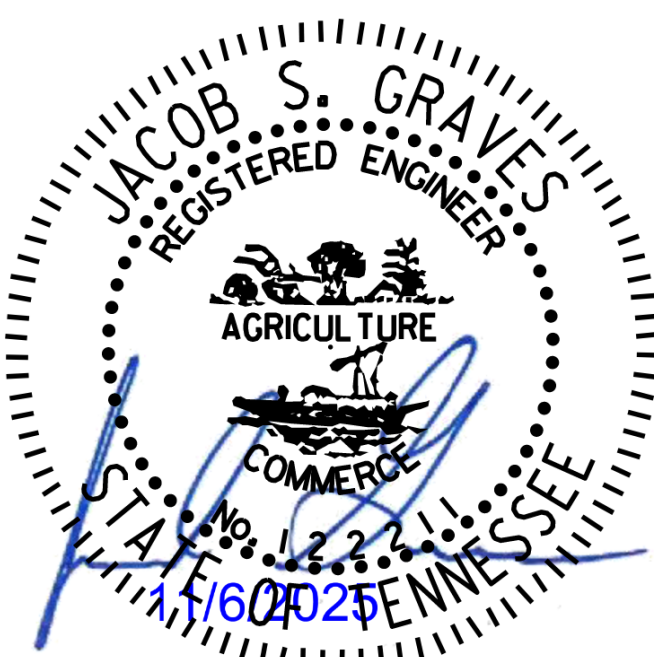
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Suite 210
Knoxville, TN 37922

865.521.6777

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE
BLOUNT COUNTY, TENNESSEE

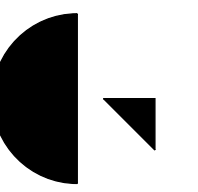
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GENERAL NOTES

2A

PROJECT: 47653.02
YEAR: 2025



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R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM DRAINAGE	SLOPE	CONST *
				BOOK	PAGE											
1	ARCONIC TENNESSEE LLC c/o PROPERTY TAX DEPT	036	029.00	2579	343	27.813	17.280	45.093				27.813	17.280	0.111		2637 S.F.
2	TN ALCOA PRIMARY LLC	036	007.03	2723	828	10.180	21.032	31.212	0.603	0.405	1.008	9.577	20.627	0.146		2.537
3	ALCOA HOTEL QOZB1 LLC	036	007.07	2817	1747			2.573						2.573		
4	CITY ALCOA	036LA	001.00	2365	2574	32.737	0.384	33.121	0.497	0.384	0.881	32.240	0 S.F.	2537 S.F.		0.397
5	TRI STAR GP	036	007.09	2633	1398	11.039	0.547	11.586				11.039	0.547	0.124		3565 S.F.
6	TRI STAR GP	036	007.08	2633	1398	0.334	0.300	0.634				0.334	0.300	0.103		0.259
ACQUISITION TOTALS (ACRES)									1.889					0.542		3.336

* CONSTRUCTION EASEMENTS ARE INTENDED FOR EROSION PREVENTION AND SEDIMENT CONTROL WORK AND WORKING ROOM FOR CONTRACTOR'S EQUIPMENT AND MATERIALS.

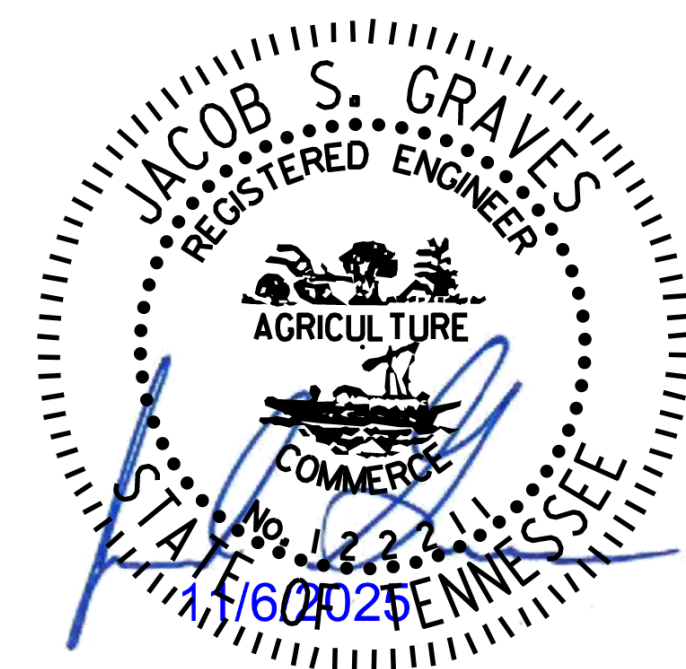
DISTURBED AREA	
IN BETWEEN SLOPE LINES	3.790 (AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	1.940 (AC)
TOTAL DISTURBED AREA	5.730 (AC)
TOTAL PROJECT AREA	5.730 (AC)

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

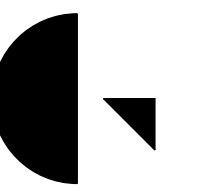
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RIGHT-OF-WAY
ACQUISITION TABLE

3

PROJECT: 47653.02
YEAR: 2025



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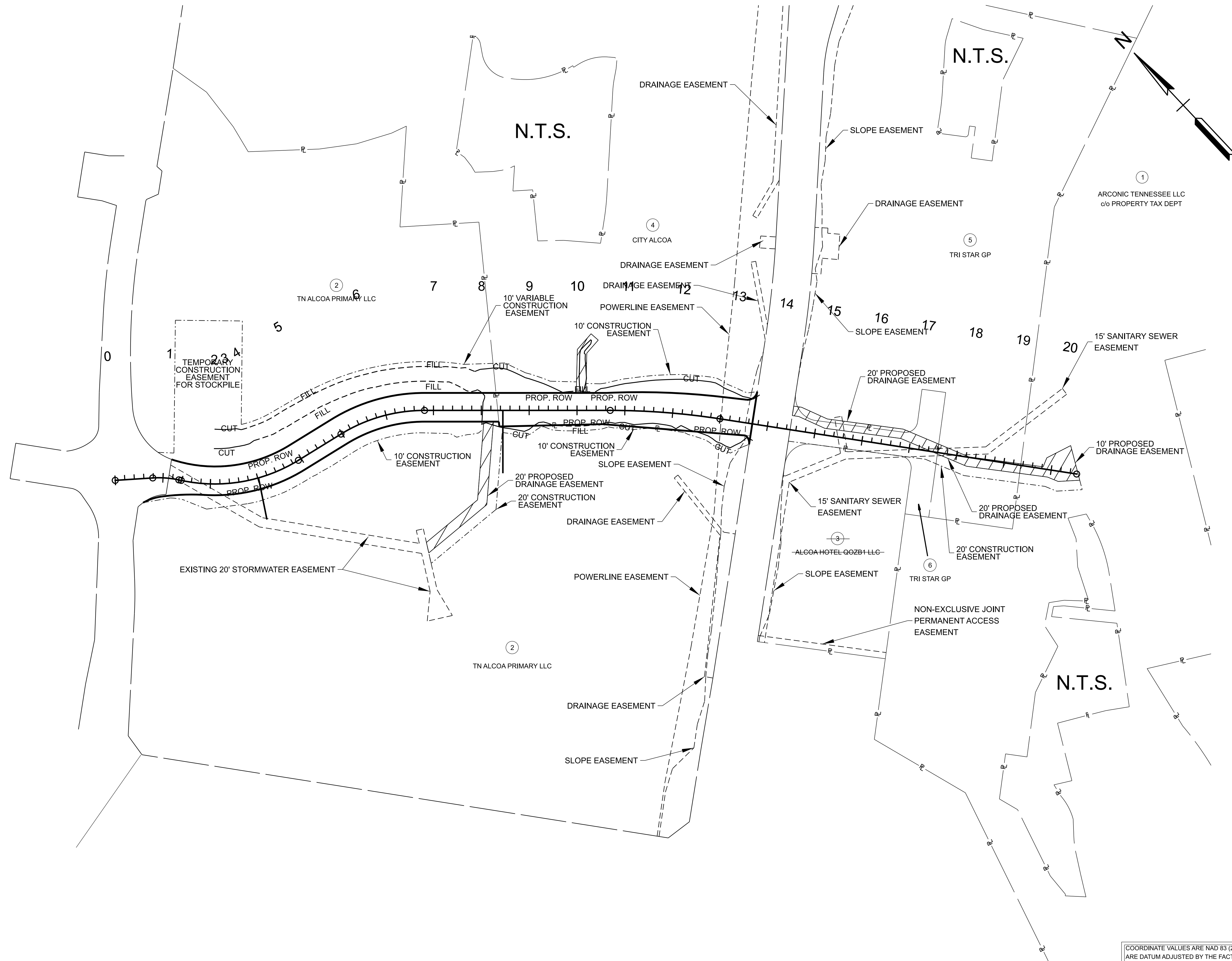
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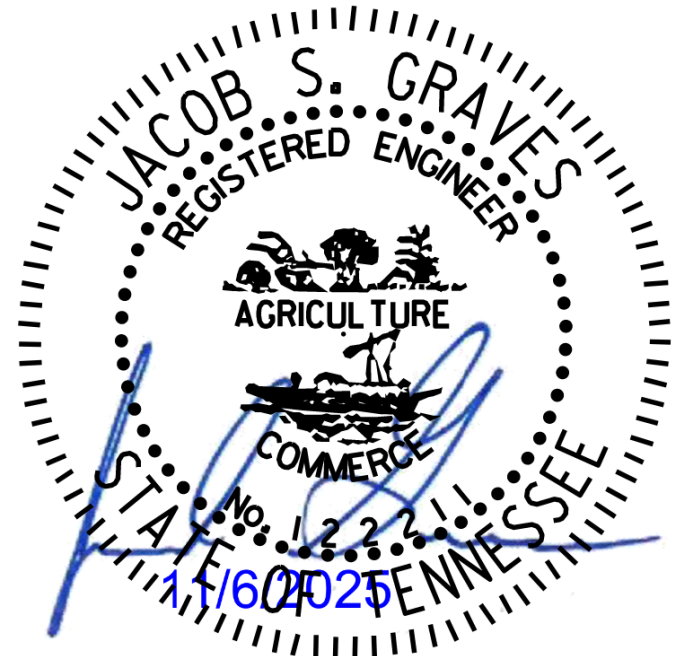
STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE



SEALED BY



PROPERTY
MAP

3A

SCALE: 1" = 100'
PROJECT: 47653.02
YEAR: 2025

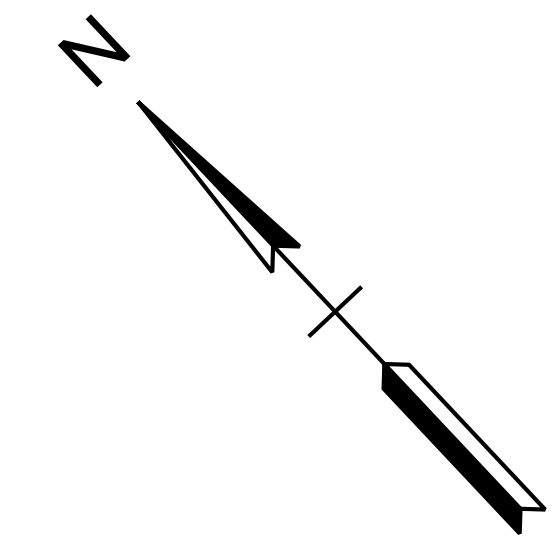
COORDINATE VALUES ARE NAD 83 (2011),
ARE DATUM ADJUSTED BY THE FACTOR
OF 1.00009, AND TIED TO TGRN. ALL
ELEVATIONS ARE REFERENCED TO THE
NAVD 1988 USING THE 2012B MODEL.



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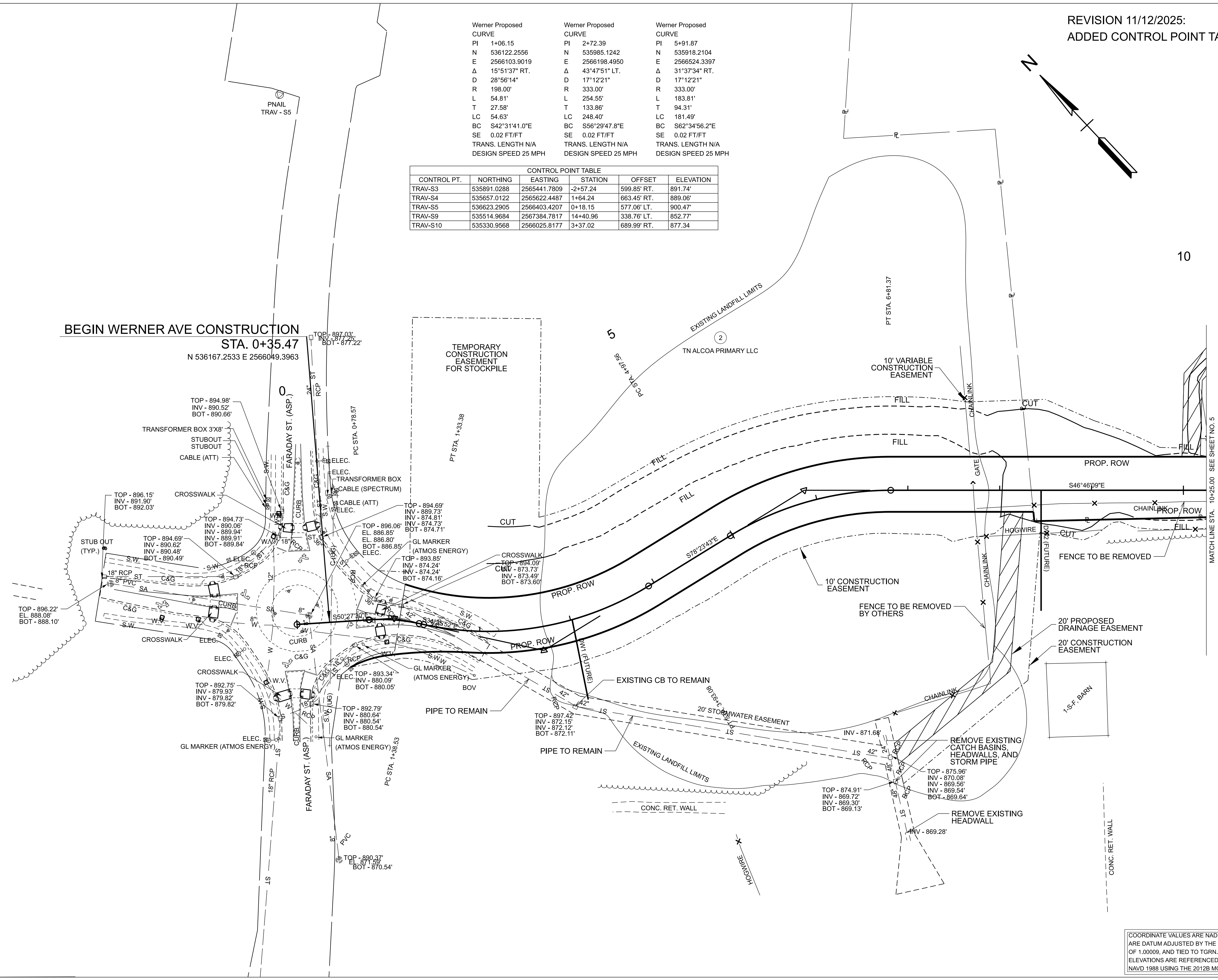
REVISION 11/12/2025:
ADDED CONTROL POINT TABLE



Werner Proposed CURVE	Werner Proposed CURVE	Werner Proposed CURVE
PI 1+06.15	PI 2+72.39	PI 5+91.87
N 536122.2556	N 535985.1242	N 535918.2104
E 2566103.9019	E 2566198.4950	E 2566524.3397
Δ 15°51'37" RT.	Δ 43°47'51" LT.	Δ 31°37'34" RT.
D 28°56'14"	D 17°12'21"	D 17°12'21"
R 198.00'	R 333.00'	R 333.00'
L 54.81'	L 254.55'	L 183.81'
T 27.58'	T 133.86'	T 94.31'
LC 54.63'	LC 248.40'	LC 181.49'
BC S42°31'41.0"E	BC S56°29'47.8"E	BC S62°34'56.2"E
SE 0.02 FT/FT	SE 0.02 FT/FT	SE 0.02 FT/FT
TRANS. LENGTH N/A	TRANS. LENGTH N/A	TRANS. LENGTH N/A
DESIGN SPEED 25 MPH	DESIGN SPEED 25 MPH	DESIGN SPEED 25 MPH

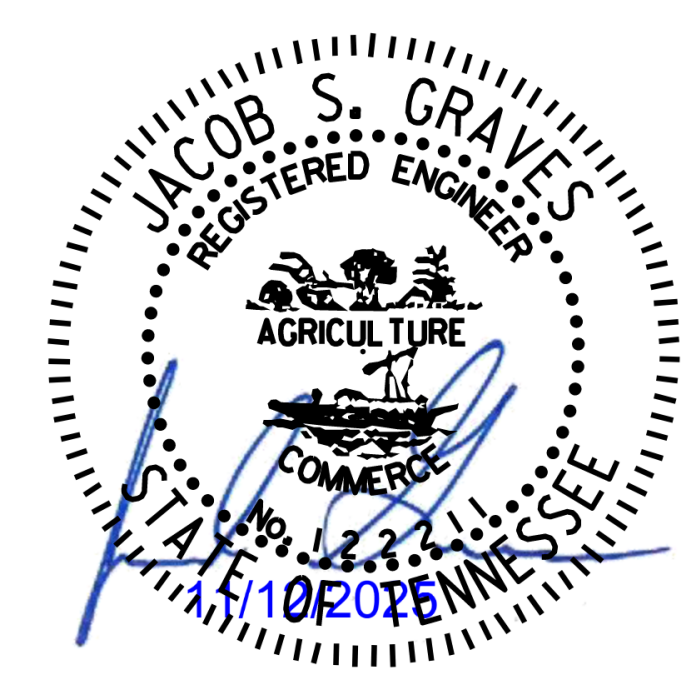
CONTROL POINT TABLE					
CONTROL PT.	NORTHING	EASTING	STATION	OFFSET	ELEVATION
TRAV-S3	535891.0288	2565441.7809	-2+57.24	599.85' RT.	891.74'
TRAV-S4	535657.0122	2565622.4487	1+64.24	663.45' RT.	889.06'
TRAV-S5	536623.2905	2566403.4207	0+18.15	577.06' LT.	900.47'
TRAV-S9	535514.9684	2567384.7817	14+40.96	338.76' LT.	852.77'
TRAV-S10	535330.9568	2566025.8177	3+37.02	689.99' RT.	877.34'

BEGIN WERNER AVE CONSTRUCTION
STA. 0+35.47
N 536167.2533 E 2566049.3963



STORMWATER DRAINAGE INFRASTRUCTURE
 WERNER AVENUE
 BLOUNT COUNTY, TENNESSEE

SEALED BY



PRESENT LAYOUT
FROM B.O.P. TO STA. 10+25.00

4

SCALE: 1" = 50'
PROJECT: 47653.02
YEAR: 2025

COORDINATE VALUES ARE NAD 83 (2011),
ARE DATUM ADJUSTED BY THE FACTOR
OF 1.00009, AND TIED TO TGRN. ALL
ELEVATIONS ARE REFERENCED TO THE
NAVD 1988 USING THE 2012B MODEL.

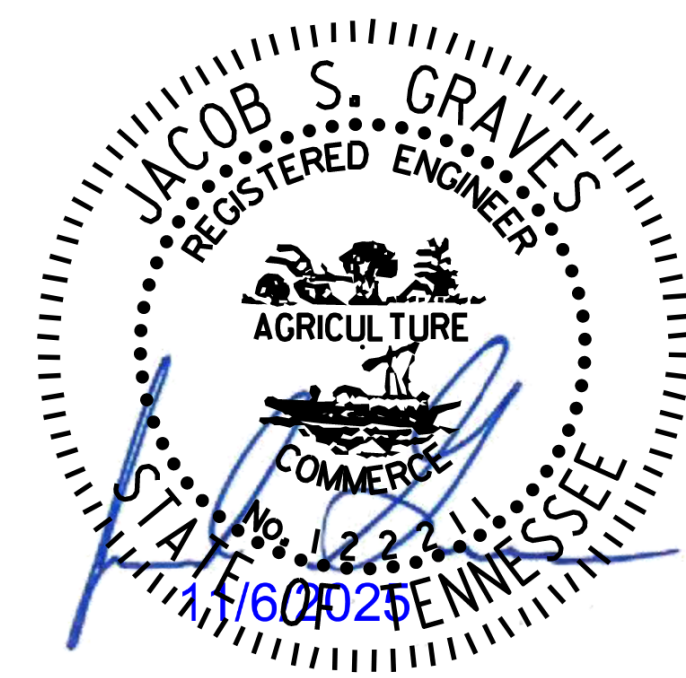
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STORMWATER DRAINAGE INFRASTRUCTURE
 WERNER AVENUE
 BLOUNT COUNTY, TENNESSEE

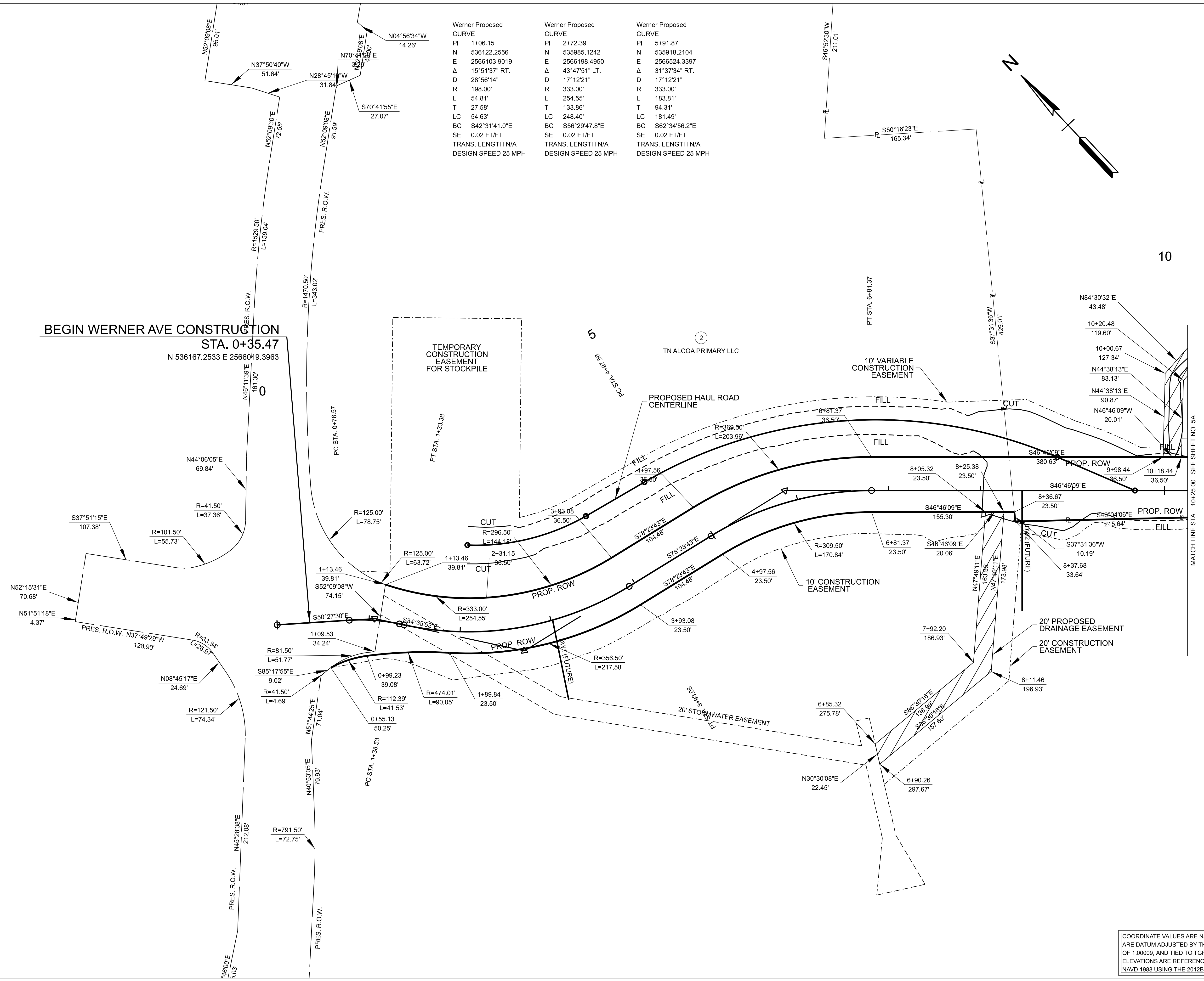
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R.O.W. DETAILS
 B.O.P. TO STA. 10+25.00

4A SCALE: 1" = 50'
 PROJECT: 47653.02
 YEAR: 2025

COORDINATE VALUES ARE NAD 83 (2011),
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Werner Proposed CURVE		Werner Proposed CURVE		Werner Proposed CURVE	
PI	1+06.15	PI	2+72.39	PI	5+91.87
N	536122.2556	N	535985.1242	N	535918.2104
E	2566103.9019	E	2566198.4950	E	2566524.3397
Δ	15°51'37" RT.	Δ	43°47'51" LT.	Δ	31°37'34" RT.
D	28°56'14"	D	17°12'21"	D	17°12'21"
R	198.00'	R	333.00'	R	333.00'
L	54.81'	L	254.55'	L	183.81'
T	27.58'	T	133.86'	T	94.31'
LC	54.63'	LC	248.40'	LC	181.49'
BC	S42°31'41.0"E	BC	S66°29'47.8"E	BC	S62°34'56.2"E
SE	0.02 FT/FT	SE	0.02 FT/FT	SE	0.02 FT/FT
TRANS. LENGTH	N/A	TRANS. LENGTH	N/A	TRANS. LENGTH	N/A
DESIGN SPEED	25 MPH	DESIGN SPEED	25 MPH	DESIGN SPEED	25 MPH

BEGIN WERNER AVE CONSTRUCTION

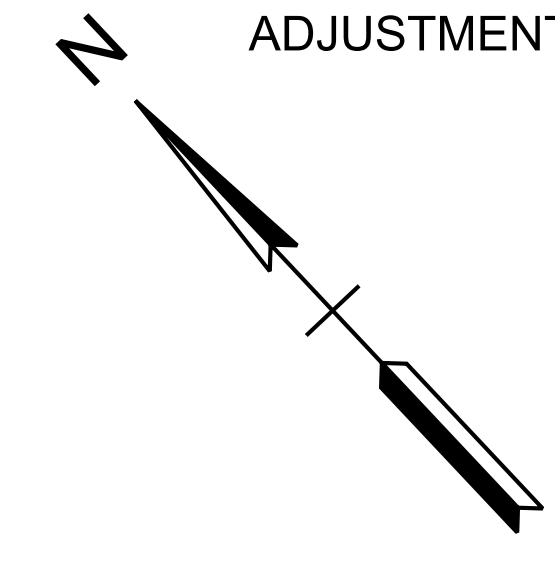
STA. 0+35.47
 N 536167.2533 E 2566049.3963

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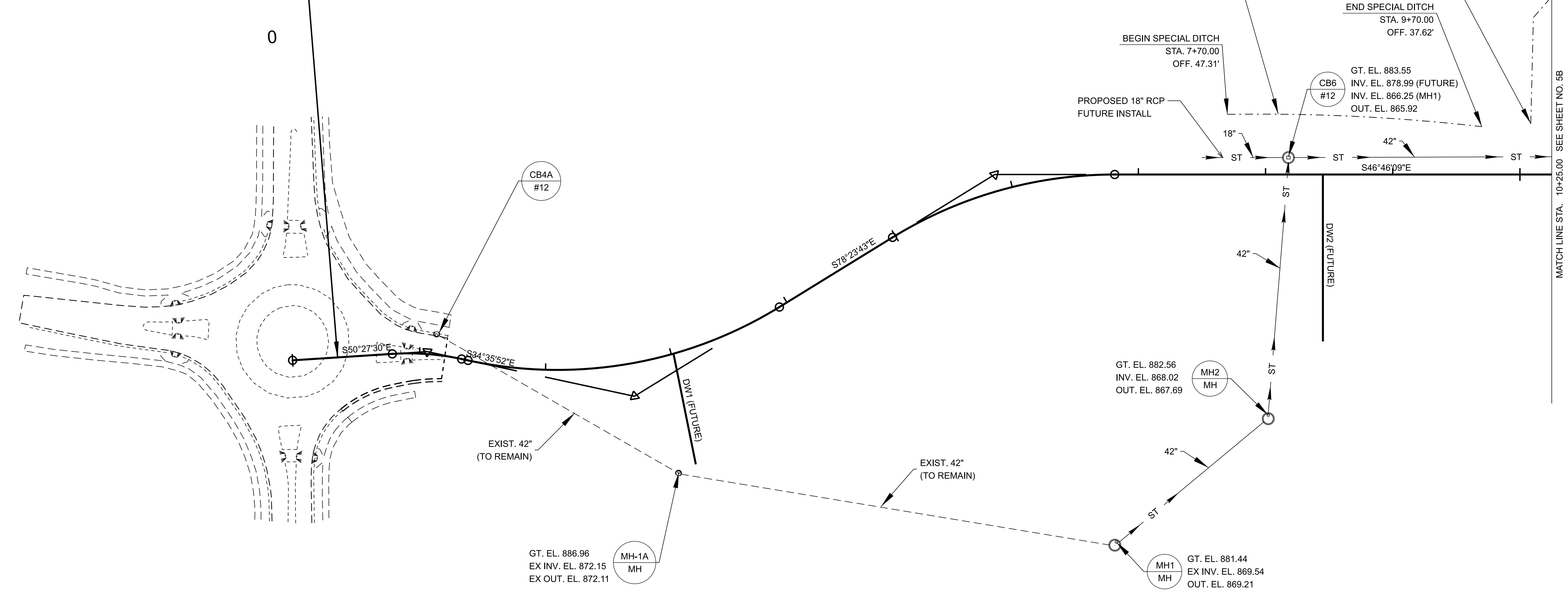
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REVISION 11/12/2025:
 REVISED COORDINATE DATUM
 ADJUSTMENT NOTE.



BEGIN WERNER AVE CONSTRUCTION
 STA. 0+35.47

N 536167.2533 E 2566049.3963



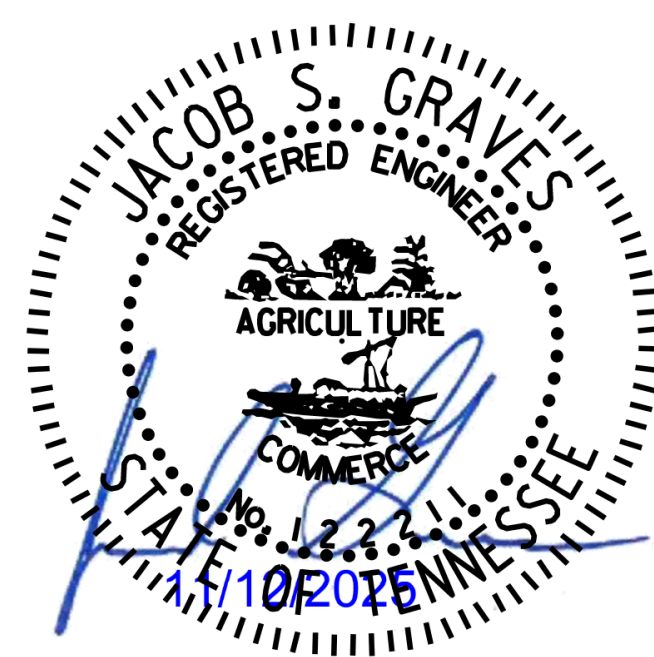
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STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

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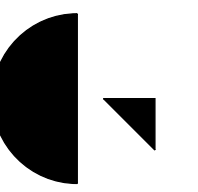
PROPOSED LAYOUT
 B.O.P. TO STA. 10+25.00

4B

SCALE: 1" = 50'
 PROJECT: 47653.02
 YEAR: 2025

COORDINATE VALUES ARE NAD 83 (2011),
 ARE DATUM ADJUSTED BY THE FACTOR
 OF 1.00009, AND TIED TO TGRN. ALL
 ELEVATIONS ARE REFERENCED TO THE
 NAVD 1988 USING THE 2012B MODEL.

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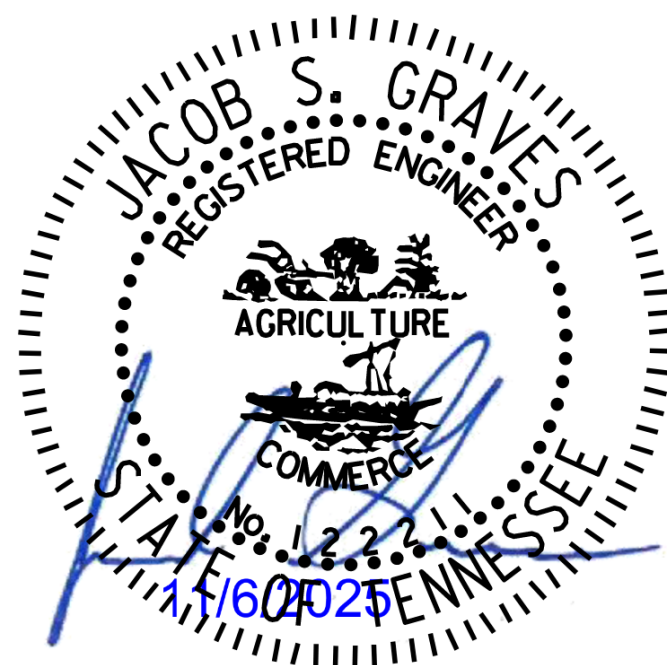
865.521.6777

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

SEALED BY

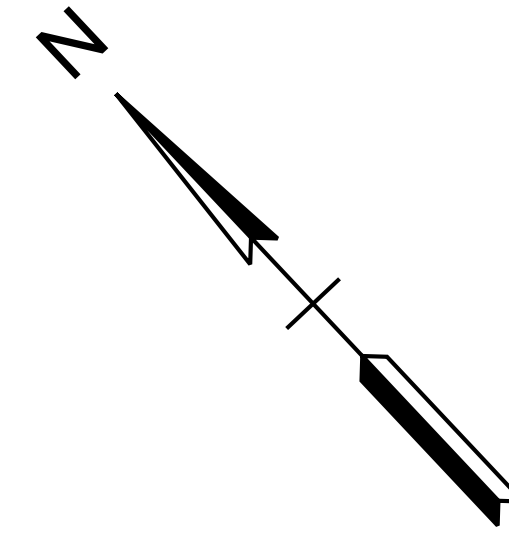


PROPOSED GRADING
LAYOUT

4C

SCALE: 1"=50'
PROJECT: 47653.02
YEAR: 2025

HAUL ROAD
CURVE
PI 4+59.88
N 535972.6729
E 2566664.6878
Δ 53°28'17" RT.
D 11°27'33"
R 500.00'
L 466.63'
T 251.86'
LC 449.88'
BC S50°13'48.6"E
SE N/A
TRANS. LENGTH N/A
DESIGN SPEED N/A



BEGIN WERNER AVE CONSTRUCTION
STA. 0+35.47
N 536167.2533 E 2566049.3963

0

PC STA. 2+00.01
5

CONTRACTOR TO LIMIT DISTURBANCE
TO EXISTING GROUND DURING
CONSTRUCTION OF HAUL ROAD

PROPOSED
GRADING LIMITS
22' WIDTH

HAUL ROAD CENTERLINE

FILL

CUT

FILL

FILL

CUT

CUT

CUT

CUT

CUT

CUT

CUT

CUT

CUT

CUT

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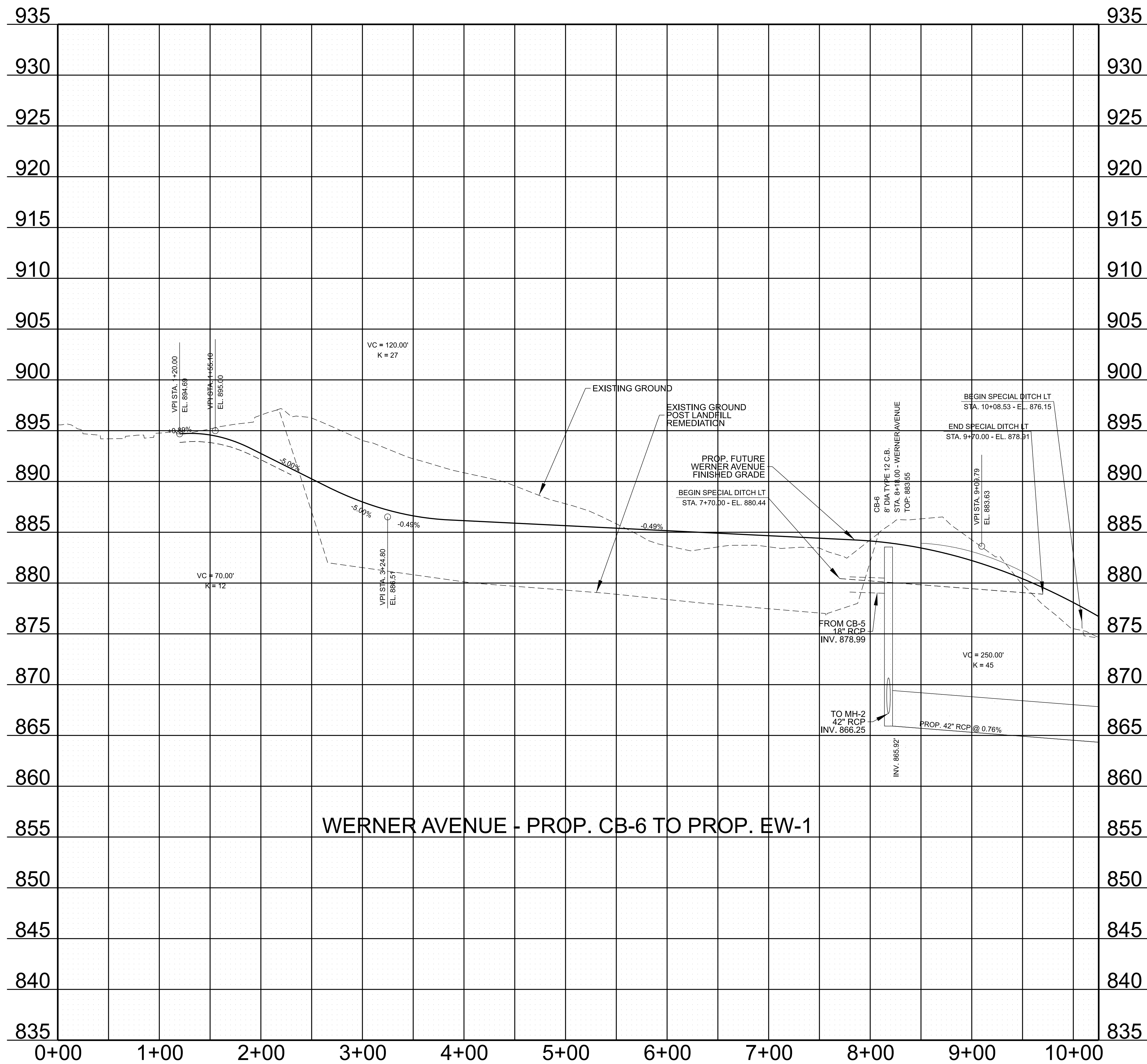
CUT

MATCH LINE STA. 10+25.00 SEE SHEET NO. 5C

COORDINATE VALUES ARE NAD 83 (2011).
ARE DATUM ADJUSTED BY THE FACTOR
OF 1.00009, AND TIED TO TGRN. ALL
ELEVATIONS ARE REFERENCED TO THE
NAVD 1988 USING THE 2012B MODEL.

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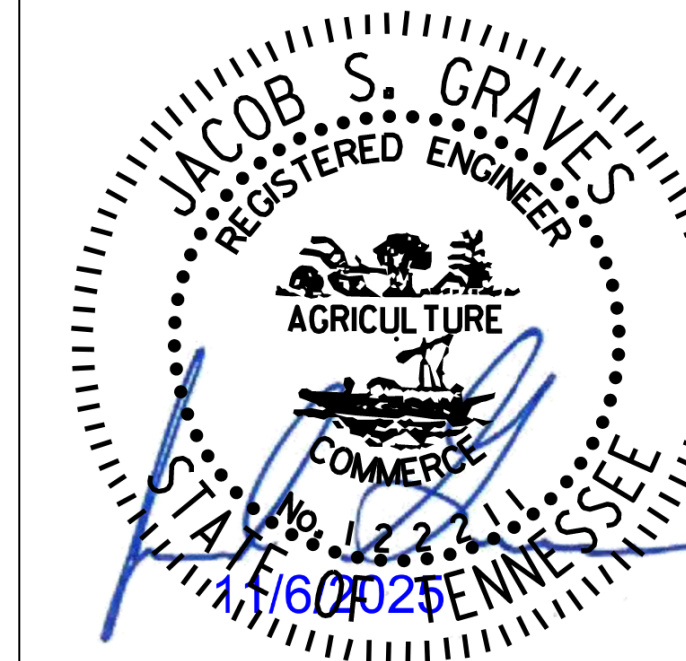
WERNER AVENUE - PROP. CB-6 TO PROP. EW-1

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

SEALED BY



PROPOSED PROFILE
FROM B.O.P. TO STA. 10+25.00

4D SCALE: 1"=50'
 PROJECT: 47653.02
 YEAR: 2025

Werner Proposed
CURVE
PI 11+84.70
N 535508.8626
E 2566959.7811
Δ 08°47'29" RT.
D 03°49'11"
R 1500.00'
L 230.16'
T 115.30'
LC 229.93'
BC S42°22'24.7"E
SE 0.02 FT/FT
TRANS. LENGTH N/A
DESIGN SPEED 25 MPH

④
CITY ALCOA

⑤
TRI STAR GP

①
ARCONIC TENNESSEE LLC
c/o PROPERTY TAX DEPT



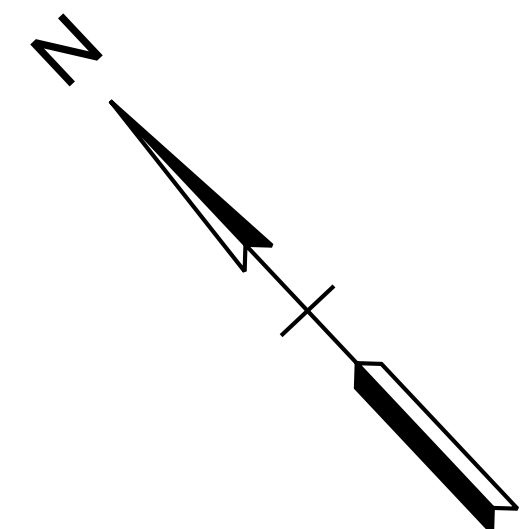
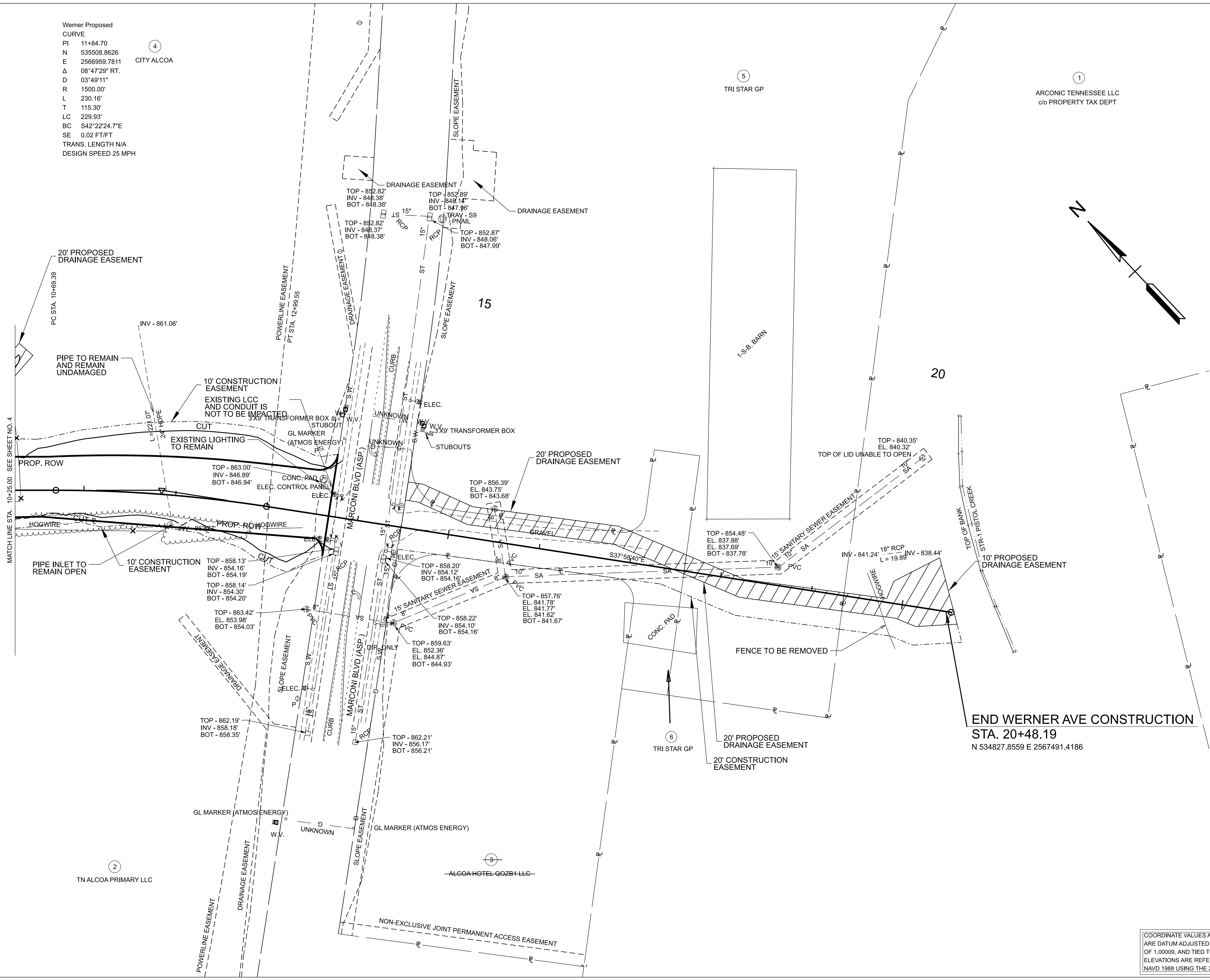
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STORMWATER DRAINAGE INFRASTRUCTURE

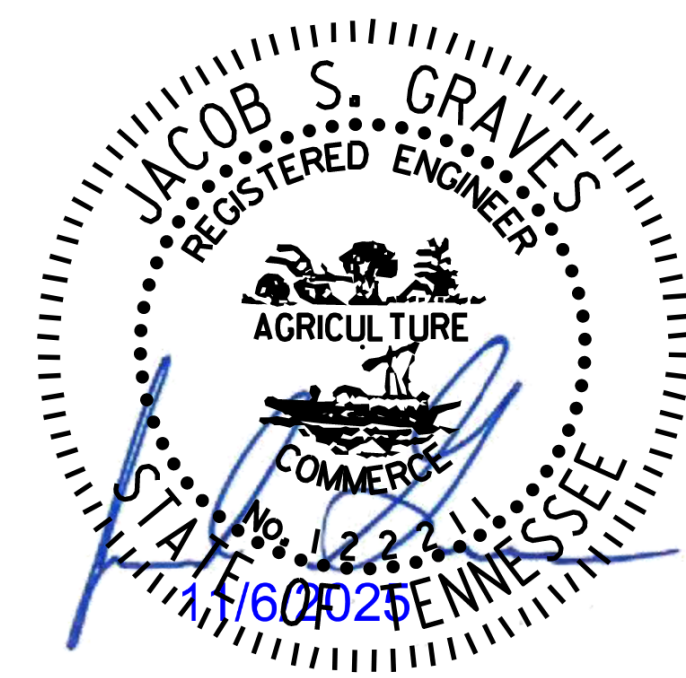
WERNER AVENUE

BLOUNT COUNTY, TENNESSEE



END WERNER AVE CONSTRUCTION
STA. 20+48.19
N 534827.8559 E 2567491.4186

SEALED BY



PRESENT LAYOUT
FROM STA. 10+25.00 TO
PISTOL CREEK

5 SCALE: 1" = 50'
PROJECT: 47653.02
YEAR: 2025

COORDINATE VALUES ARE NAD 83 (2011),
ARE DATUM ADJUSTED BY THE FACTOR
OF 1.00009, AND TIED TO TGRN. ALL
ELEVATIONS ARE REFERENCED TO THE
NAVD 1988 USING THE 2012B MODEL.

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②
TN ALCOA PRIMARY LLC

③
ALCOA HOTEL QOZB1 LLC

Werner Proposed
CURVE
PI 11+84.70
N 535508.8626
E 2566959.7811
Δ 08°47'29" RT.
D 03°49'11"
R 1500.00'
L 230.16'
T 115.30'
LC 229.93'
BC S42°22'24.7"E
SE 0.02 FT/FT
TRANS. LENGTH N/A
DESIGN SPEED 25 MPH

④
CITY ALCOA

⑤
TRI STAR GP

①
ARCONIC TENNESSEE LLC
c/o PROPERTY TAX DEPT

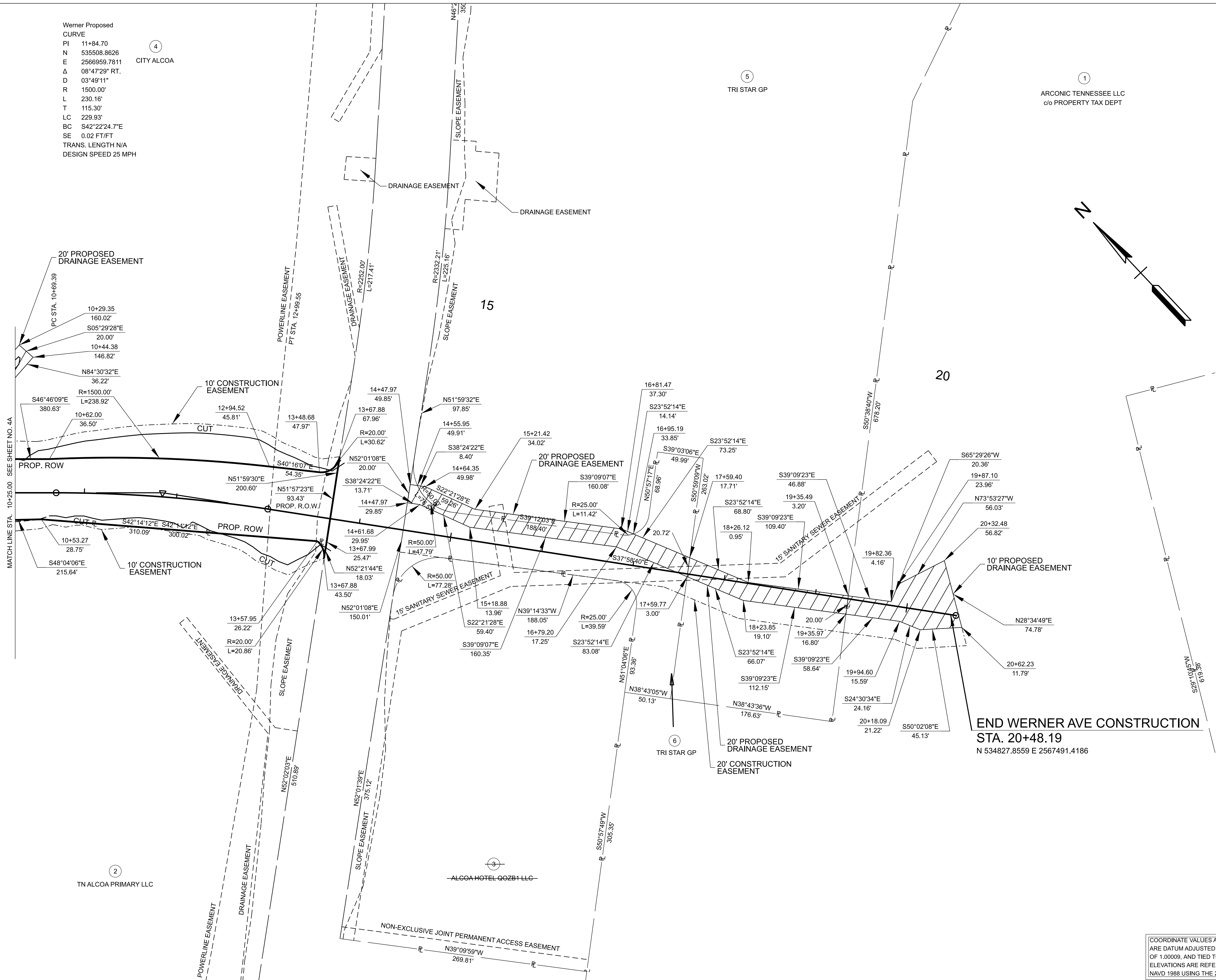


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Knoxville, TN 37922

865.521.6777

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE
BLOUNT COUNTY, TENNESSEE



END WERNER AVE CONSTRUCTION
STA. 20+48.19
N 534827.8559 E 2567491.4186

SEALED BY



R.O.W. DETAILS
FROM STA. 10+50.00 TO
PISTOL CREEK

5A

SCALE: 1" = 50'
PROJECT: 47653.02
YEAR: 2025

COORDINATE VALUES ARE NAD 83 (2011),
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②
TN ALCOA PRIMARY LLC

③
ALCOA HOTEL Q02B1 LLC

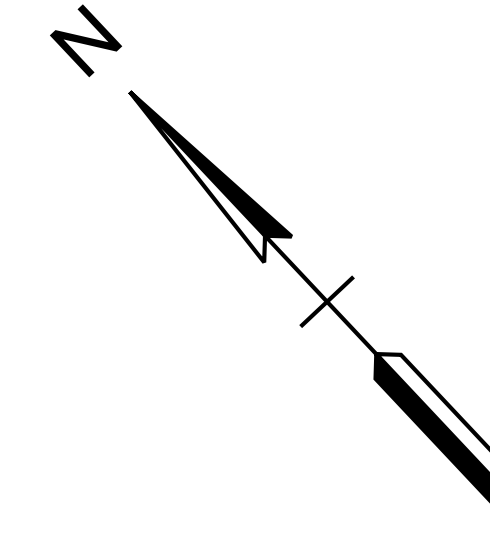
⑥
TRI STAR GP

REVISION 11/12/2025:
 REVISED COORDINATE DATUM
 ADJUSTMENT NOTE.



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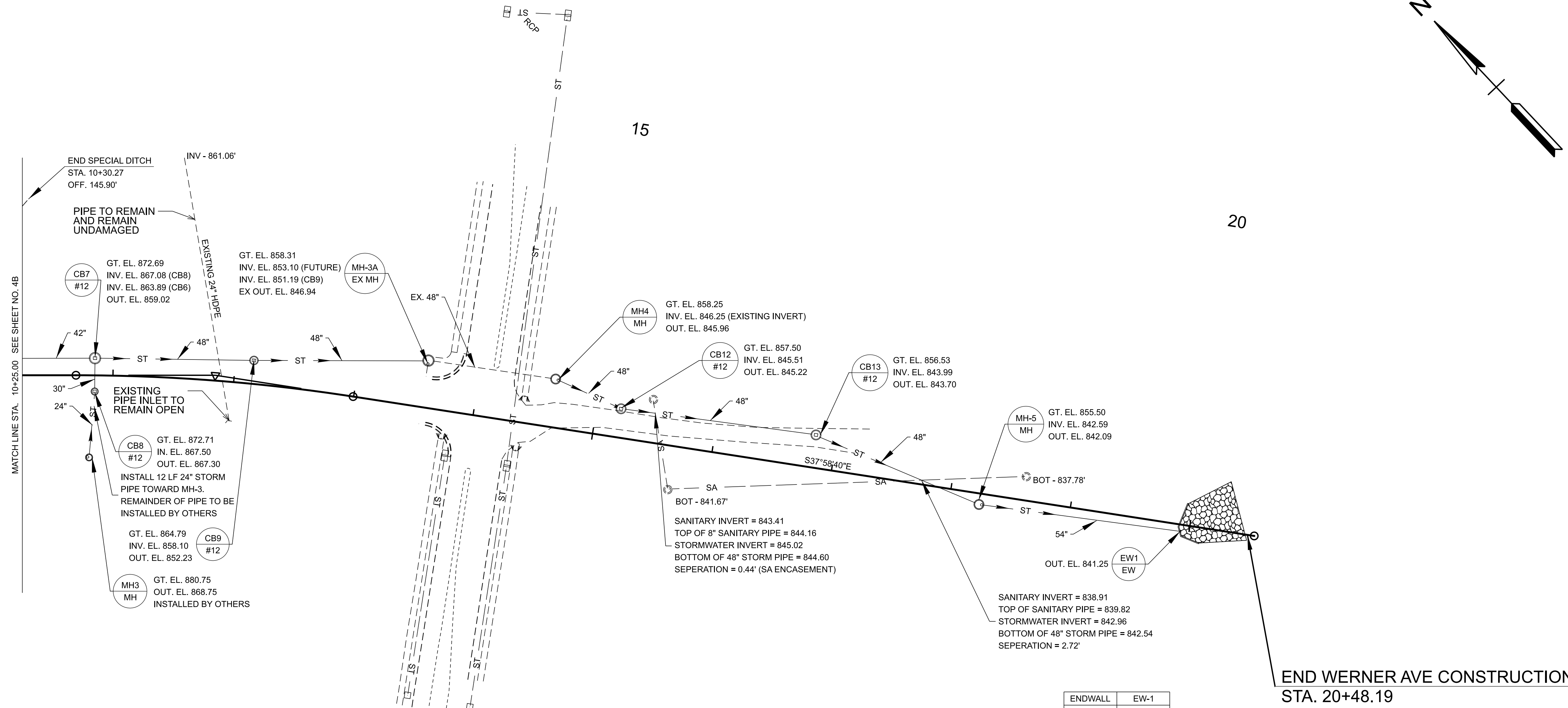
865.521.6777



STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

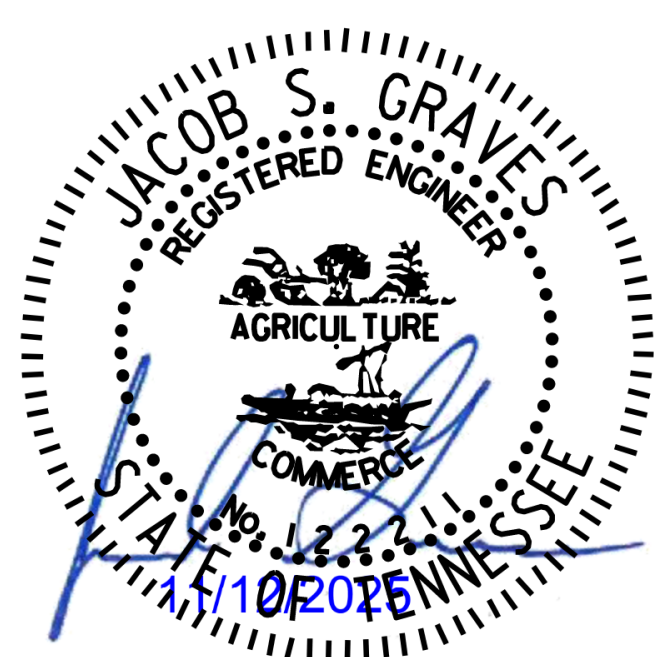


END WERNER AVE CONSTRUCTION
 STA. 20+48.19
 N 534827.8559 E 2567491.4186

ENDWALL	EW-1
RIP RAP CLASS	B
DEPTH	2.5 FT.
Do	34 FT.
LENGTH	39 FT.
WIDTH	50 FT.

COORDINATE VALUES ARE NAD 83 (2011),
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SEALED BY

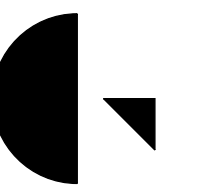


PROPOSED LAYOUT
 FROM STA. 10+25.00 TO
 PISTOL CREEK

5B

SCALE: 1" = 50'
 PROJECT: 47653.02
 YEAR: 2025

11/12/2025 5:00:30 PM
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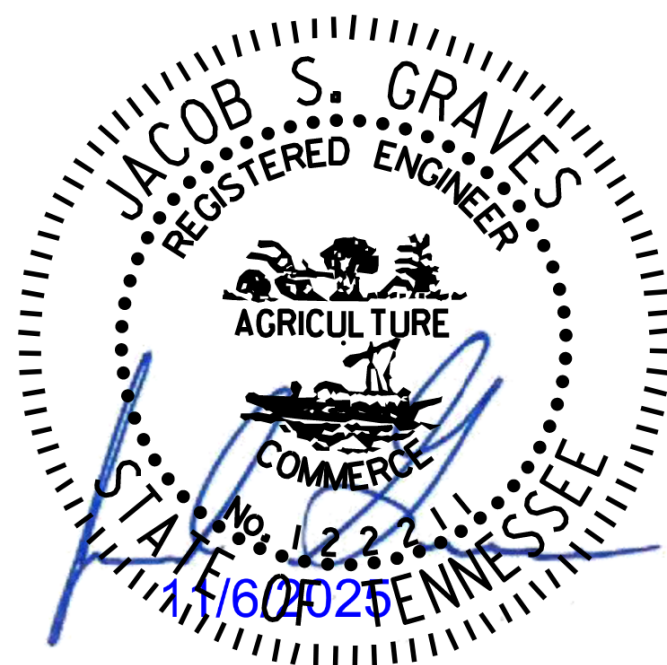
865.521.6777

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

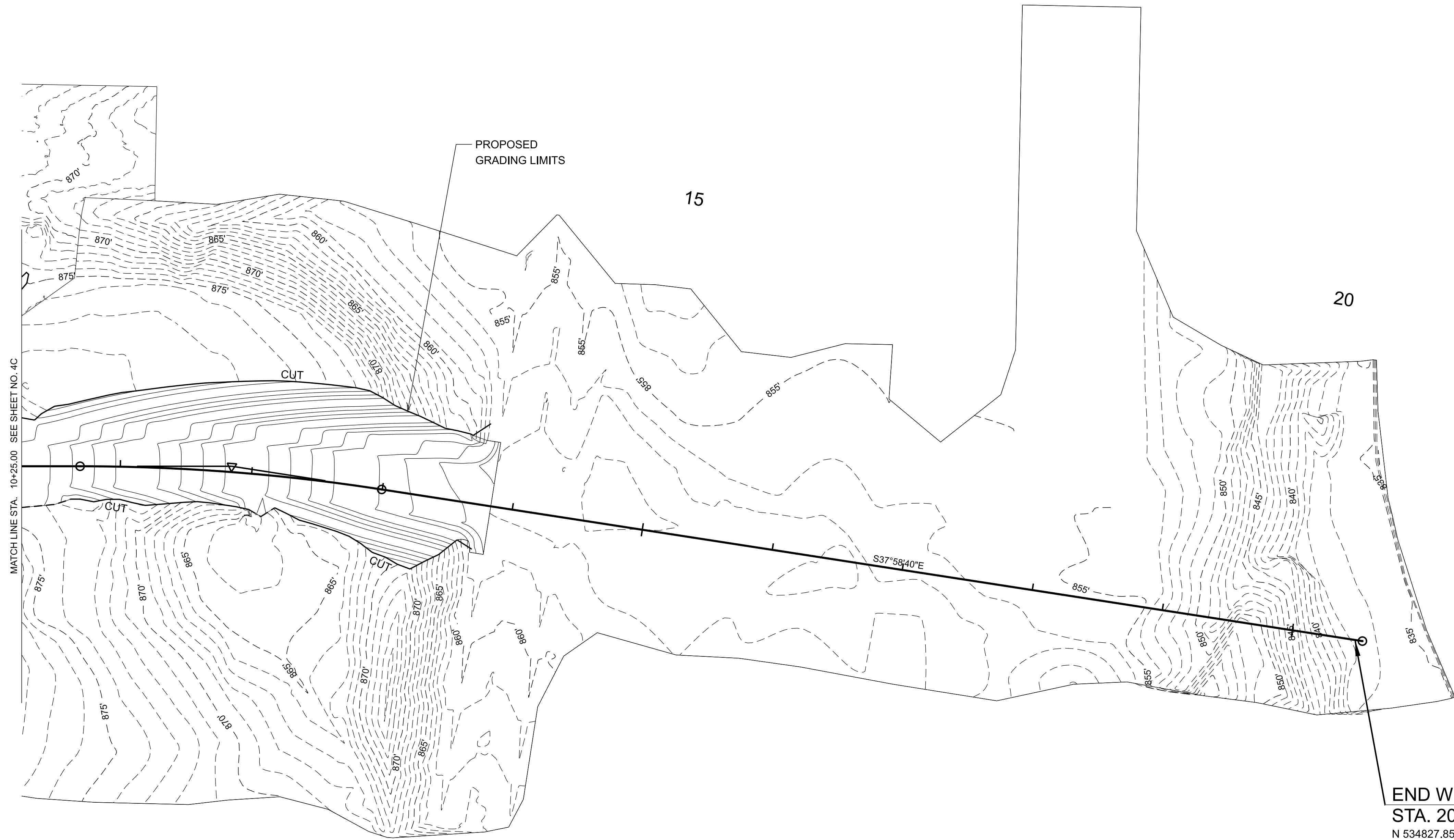
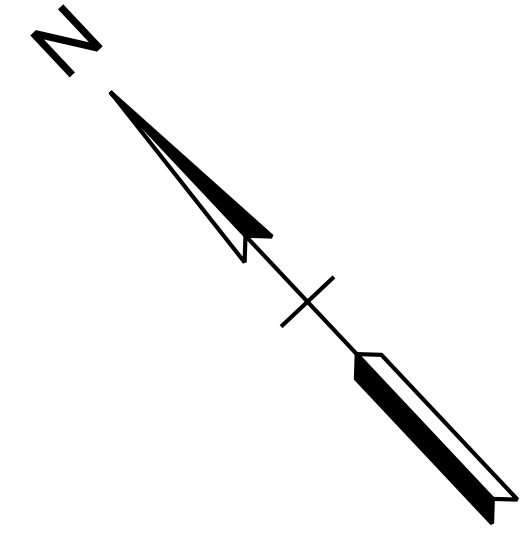
SEALED BY



PROPOSED GRADING
LAYOUT

5C

SCALE: 1" = 50'
PROJECT: 47653.02
YEAR: 2025

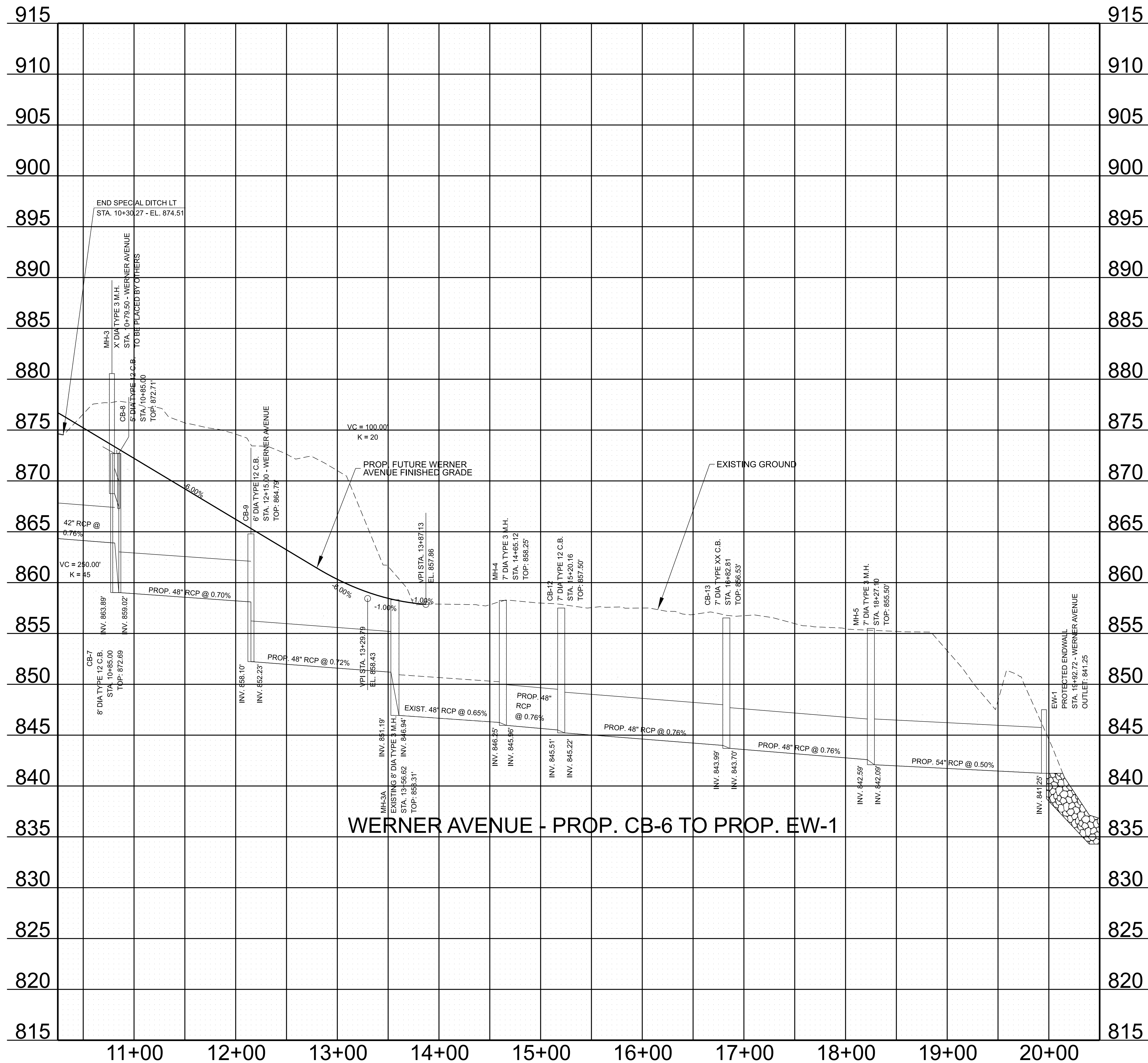


END WERNER AVE CONSTRUCTION
STA. 20+48.19

N 534827.8559 E 2567491.4186

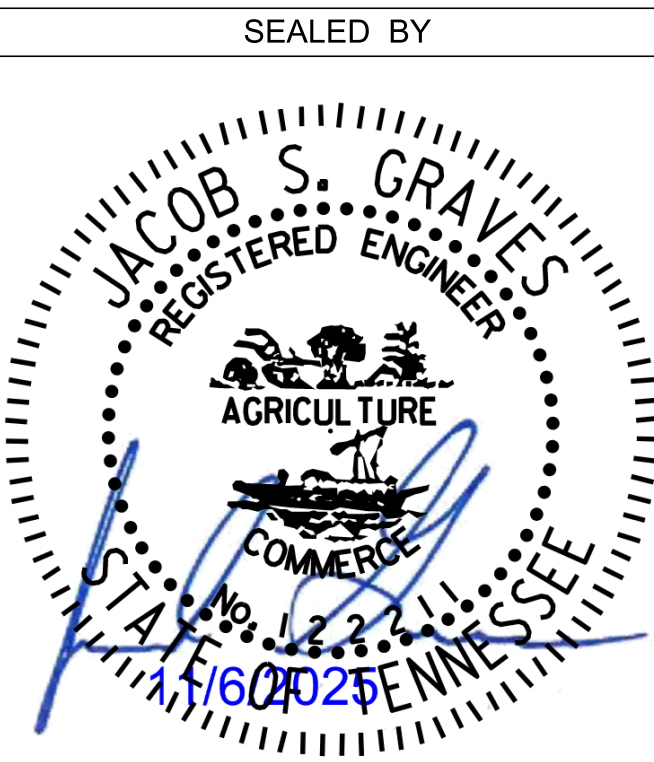
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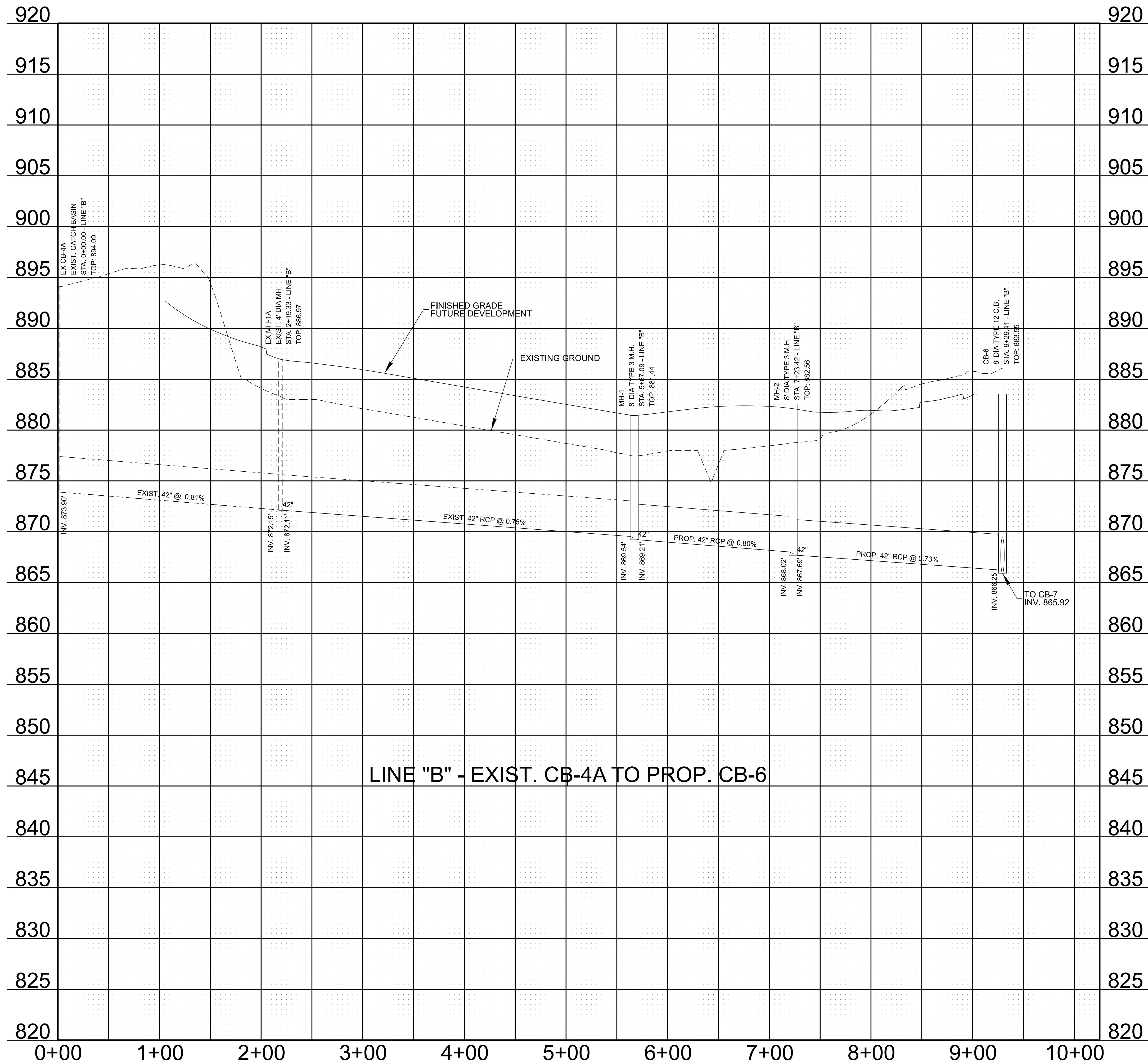
WERNER AVENUE - PROP. CB-6 TO PROP. EW-1

STORMWATER DRAINAGE INFRASTRUCTURE
 WERNER AVENUE
 BLOUNT COUNTY, TENNESSEE



PROPOSED PROFILES
 FROM STA. 10+25.00 TO
 PISTOL CREEK

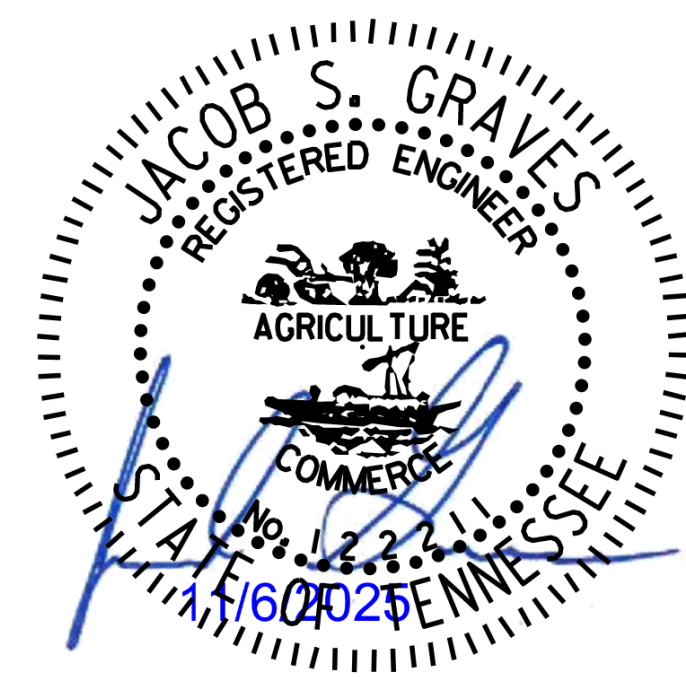
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LINE "B" - EXIST. CB-4A TO PROP. CB-6

STORMWATER DRAINAGE INFRASTRUCTURE
 WERNER AVENUE
 BLOUNT COUNTY, TENNESSEE

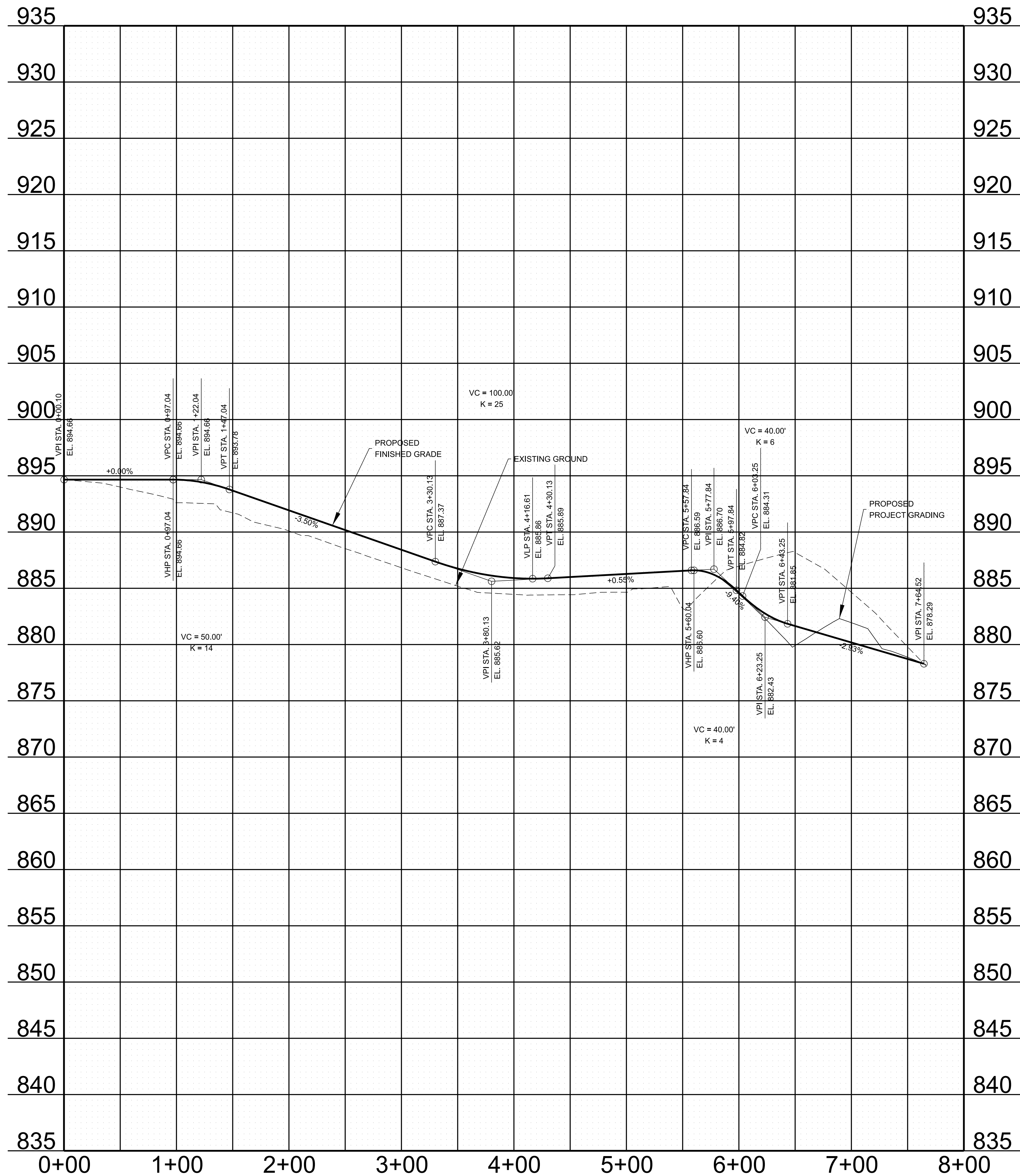
SEALED BY



PROPOSED PROFILE
 LINE "B"
 EXISTING CB-4A TO CB-6

6 SCALE: 1"=50'
 PROJECT: 47653.02
 YEAR: 2025

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STORMWATER DRAINAGE INFRASTRUCTURE
 WERNER AVENUE
 BLOUNT COUNTY, TENNESSEE

SEALED BY

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

- (1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

COORDINATION OF ADJACENT PROJECTS

- (2) CONTRACTOR TO COORDINATE WITH ADJACENT CONTRACTOR TO MAINTAIN ACCESS TO ADJACENT CONSTRUCTION SITE DURING CONSTRUCTION.

SOILS MANAGEMENT PLAN (SMP) NOTES

- (3) CONTRACTOR SHALL ADHERE TO THE SOILS MANAGEMENT PLAN (SMP) FOR ALL MATTERS CONCERNING THE HANDLING OF SUSPECT MATERIAL AND DISPOSAL OF ANY AND ALL SPECIAL WASTE AND/OR SUSPECT SOILS OR MATERIALS DISCOVERED ON THE PROJECT AT A PROPERLY PERMITTED OFF SITE FACILITY. THE SMP IS FOR THE PROJECT SITE IN ITS ENTIRETY AND NOT SOLELY FOR THE DELINEATED AREAS.
- (4) A PRECONSTRUCTION MEETING WILL BE HELD TO REVIEW THE CONTENTS OF THE SMP. THE DESIGNATED TDEC REPRESENTATIVE(S), THE ENVIRONMENTAL PROFESSIONAL (EP), AND THE REPRESENTATIVES OF THE CONTRACTOR RESPONSIBLE FOR THE OVERALL EARTH MOVING PROJECT AND THE CONTRACTOR'S HEALTH AND SAFETY OFFICIAL SHOULD BE PARTICIPANTS IN THE MEETING.
- (5) THE CONTRACTOR IS REQUIRED TO GIVE NOTICE TO THE ENVIRONMENTAL PROFESSIONAL DESIGNATED BY THE CITY OF ALCOA AT LEAST 3 BUSINESS DAYS PRIOR TO BEGINNING EXCAVATION.
- (6) WHEN SUSPECT MATERIAL IS DISCOVERED THE CONTRACTOR SHALL CEASE WORK AND IMMEDIATELY NOTIFY THE EP FOR EVALUATION. IF THE EP IS NOT ALREADY ON-SITE, THEY WILL ARRANGE A SITE VISIT AS SOON AS PRACTICABLE.
- (7) THE CONTRACTOR CAN EITHER CHANGE WORKING LOCATIONS OR TEMPORARILY STOCKPILE ALL SUSPECT MATERIAL UNTIL THE EP HAS PERFORMED AN EVALUATION AND DETERMINED THE PROPER MANAGEMENT OPTIONS. IF THE EP RECOMMENDS THAT THE SUSPECT MATERIAL BE MANAGED OFF-SITE, THE SUSPECT MATERIAL WILL BE TESTED ONLY FOR DISPOSAL PURPOSES IN ACCORDANCE WITH TDEC REGULATIONS AND THE RECEIVING FACILITY'S REQUEST. NO ADDITIONAL TIME OR COMPENSATION WILL BE GIVEN FOR HANDLING OF THE SUSPECT MATERIAL WHILE THE DETERMINATION IS BEING MADE.
- (8) MATERIAL DETERMINATION IS ANTICIPATED TO TAKE 5 BUSINESS DAYS.
- (9) ALL SUSPECT MATERIAL STOCKPILE AREAS SHALL BE APPROVED BY THE ENGINEER PRIOR TO STOCKPILING ANY MATERIAL.
- (10) THE WASTE DISPOSAL PROFILE AND WASTE MANIFEST FOR THE SUSPECT MATERIALS TO BE DISPOSED OF OFF SITE SHALL BE COMPLETED BY THE CONTRACTOR. ASSISTANCE IN PREPARING THE WASTE DISPOSAL PROFILE WILL BE PROVIDED BY THE CITY'S ENVIRONMENTAL CONSULTANT.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

FOOTNOTES	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)(3)(4)(5)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	270
(1)(4)	209-05	SEDIMENT REMOVAL	C.Y.	112
(1)(4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1570
(1)(4)	209-08.07	ROCK CHECK DAM	EACH	2
(1)(4)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	4
(1)(4)	209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH	2
(1)(4)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	11
(1)(4)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	12
(1)(4)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	700
(1)(2)(3)(4)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
(1)(2)(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	343
(1)(4)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	3110
(1)(4)	801-01	SEEDING (WITH MULCH)	UNIT	115
(1)(4)	801-02	SEEDING (WITHOUT MULCH)	UNIT	28
(1)(4)	801-03	WATER (SEEDING & SODDING)	M.G.	15
(1)(4)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	3112

EPSC QUANTITY FOOTNOTES

- (1) SEE SUBSECTION 209.07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- (2) GEOTEXTILE TO BE PLACED UNDER ALL RIP-RAP.
- (3) FOR CONSTRUCTION EXITS.
- (4) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER
- (5) INCLUDES 241 CY TO BE USED FOR THE PLACEMENT OF THE TEMPORARY EARTH BERMS

OUTFALL TABLE						
OUTFALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	DRAINAGE AREA (ACRES)			COMMENTS
			STAGE 1	STAGE 2	STAGE 3	
1	10+30 LT	11.0%	0.37	0.80	0.80	
2	10+52 RT	6.0%	0.53	0.03	0.03	
3	13+82 RT	2.0%	0.33	0.33	0.33	
4	14+34 RT	2.0%	0.24	0.24	0.24	
5	13+77 LT	1.5%	0.64	0.64	0.64	
6	14+28 LT	1.5%	0.41	0.41	0.41	
7	19+46 LT	2.0%	0.61	0.61	0.61	
8	13+56 LT	12.0%	0.60	0.60	0.60	

* ALL STATIONS ARE ALONG WERNER AVENUE UNLESS NOTED OTHERWISE.

**PISTOL CREEK IS THE RECEIVING WATER FOR ALL OUTFALLS

EPSC NOTES:

IN STAGE 2 AND 3, TYPE "D" CATCH BASIN PROTECTION IS PROVIDED FOR PROPOSED STRUCTURES DURING CONSTRUCTION. FINAL STRUCTURE HEIGHTS ARE ABOVE PROPOSED FINISHED GRADE AND RUNOFF WILL NOT BE ABLE TO ENTER THE INLETS OF THE STRUCTURES. THEREFORE, THE PROPOSED DRAINAGE STRUCTURES ARE NOT LABELED AS STORMWATER OUTFALLS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	SEDIMENT FILTER BAG	EC-STR-2
	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY BERM	EC-STR-27
	EROSION CONTROL BLANKET	EC-STR-34
	SEDIMENT TUBE	EC-STR-37
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

REVISION 11/12/2025:
ADDED SOILS MANAGEMENT
PLAN NOTES



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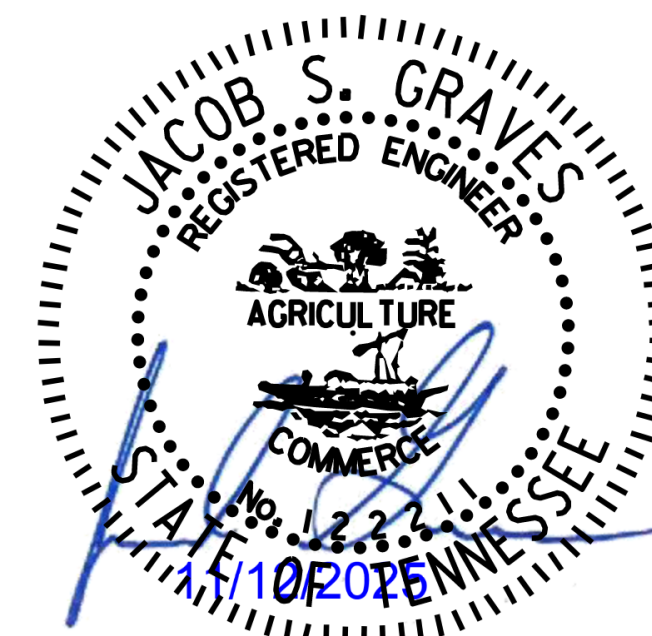
865.521.6777

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

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EPSC TABULATED
QUANTITIES, OUTFALL
TABLE & LEGEND

8

PROJECT: 47653.02
YEAR: 2025

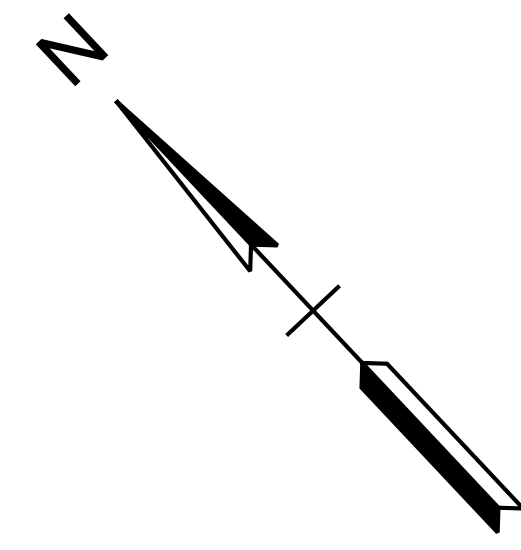
STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

Werner Proposed CURVE	Werner Proposed CURVE	Werner Proposed CURVE
PI 1+06.15	PI 2+72.39	PI 5+91.87
N 536122.2556	N 535985.1242	N 535918.2104
E 2566103.9019	E 2566198.4950	E 2566524.3397
Δ 15°51'37" RT.	Δ 43°47'51" LT.	Δ 31°37'34" RT.
D 28°56'14"	D 17°12'21"	D 17°12'21"
R 198.00'	R 333.00'	R 333.00'
L 54.81'	L 254.55'	L 183.81'
T 27.58'	T 133.86'	T 94.31'
LC 54.63'	LC 248.40'	LC 181.49'
BC S42°31'41.0"E	BC S56°29'47.8"E	BC S62°34'56.2"E
SE 0.02 FT/FT	SE 0.02 FT/FT	SE 0.02 FT/FT
TRANS. LENGTH N/A	TRANS. LENGTH N/A	TRANS. LENGTH N/A
DESIGN SPEED 25 MPH	DESIGN SPEED 25 MPH	DESIGN SPEED 25 MPH

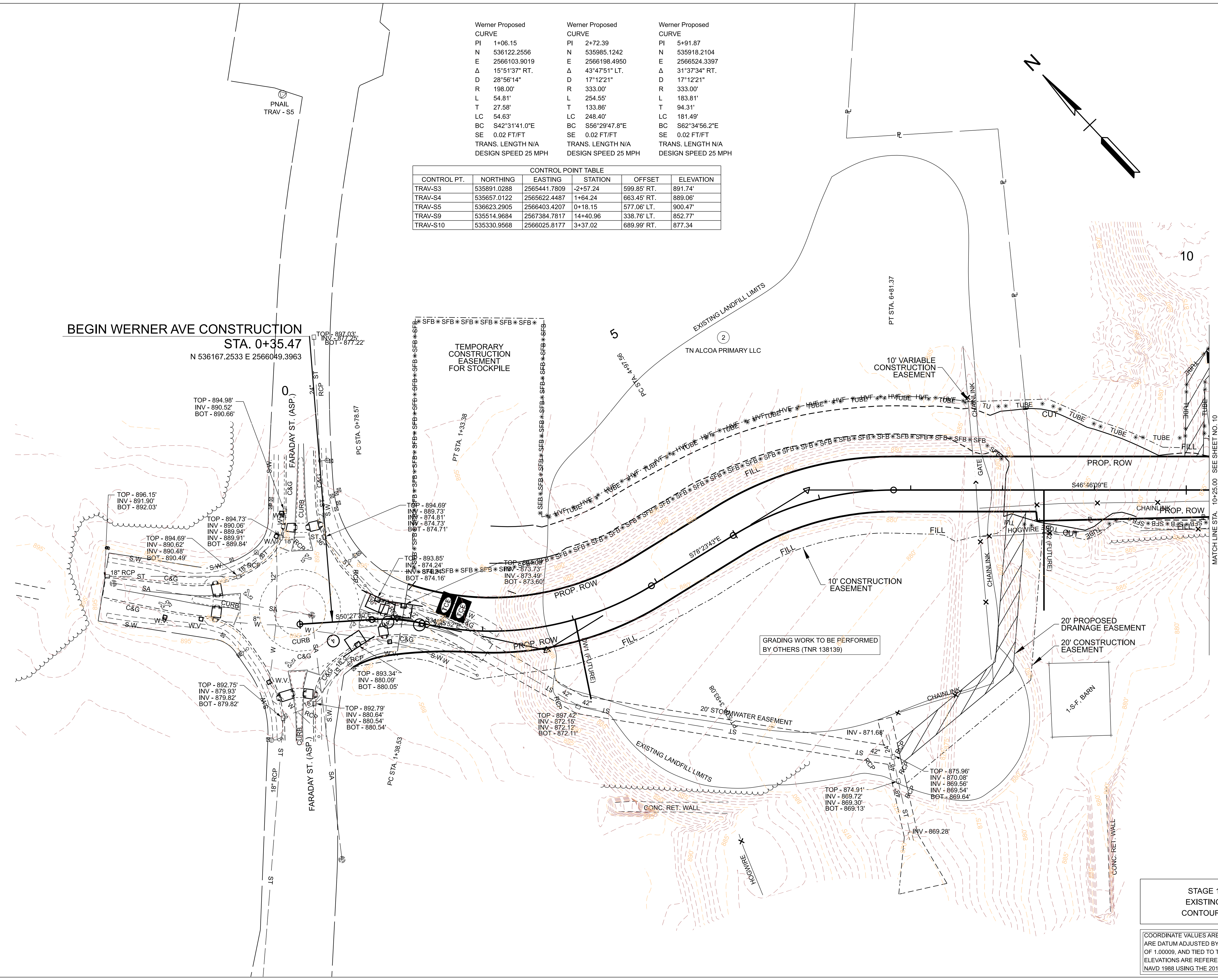
CONTROL POINT TABLE				
CONTROL PT.	NORTHING	EASTING	STATION	OFFSET
TRAV-S3	535891.0288	2565441.7809	-2+57.24	599.85' RT.
TRAV-S4	535657.0122	2565622.4487	1+64.24	663.45' RT.
TRAV-S5	536623.2905	2566403.4207	0+18.15	577.06' LT.
TRAV-S9	535514.9684	2567384.7817	14+40.96	338.76' LT.
TRAV-S10	535330.9568	2566025.8177	3+37.02	689.99' RT.



BEGIN WERNER AVE CONSTRUCTION

STA. 0+35.47

N 536167.2533 E 2566049.3963



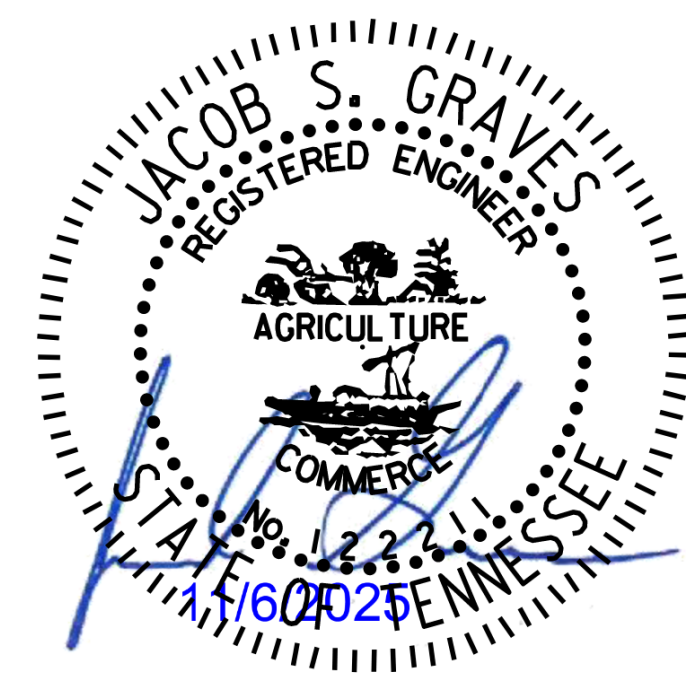
GRADING WORK TO BE PERFORMED BY OTHERS (TNR 138139)

MATCH LINE STA. 10+25.00 SEE SHEET NO. 10

STAGE 1
EXISTING
CONTOURS

COORDINATE VALUES ARE NAD 83 (2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009, AND TIED TO TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE 2012B MODEL.

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EPSC STAGE 1
B.O.P. TO STA. 10+25.00

SCALE: 1" = 50'
PROJECT: 47653.02
YEAR: 2025

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Werner Proposed
CURVE
PI 11+84.70
N 535508.8626
E 2566959.7811
Δ 08°47'29" RT.
D 03°49'11"
R 1500.00'
L 230.16'
T 115.30'
LC 229.93'
BC S42°22'24.7"E
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TRANS. LENGTH N/A
DESIGN SPEED 25 MPH

④
CITY ALCOA

⑤
TRI STAR GP

①
ARCONIC TENNESSEE LLC
c/o PROPERTY TAX DEPT



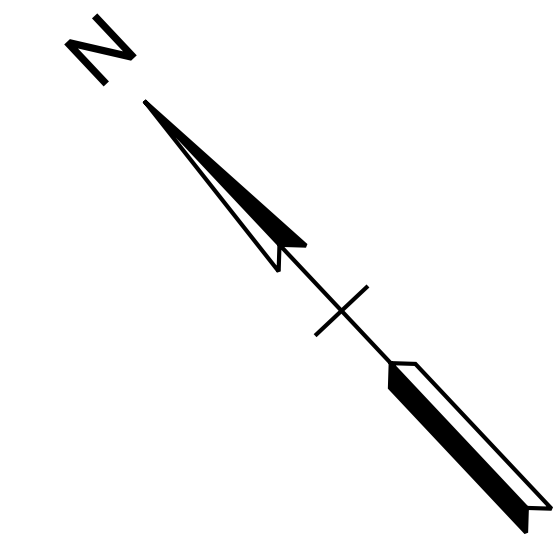
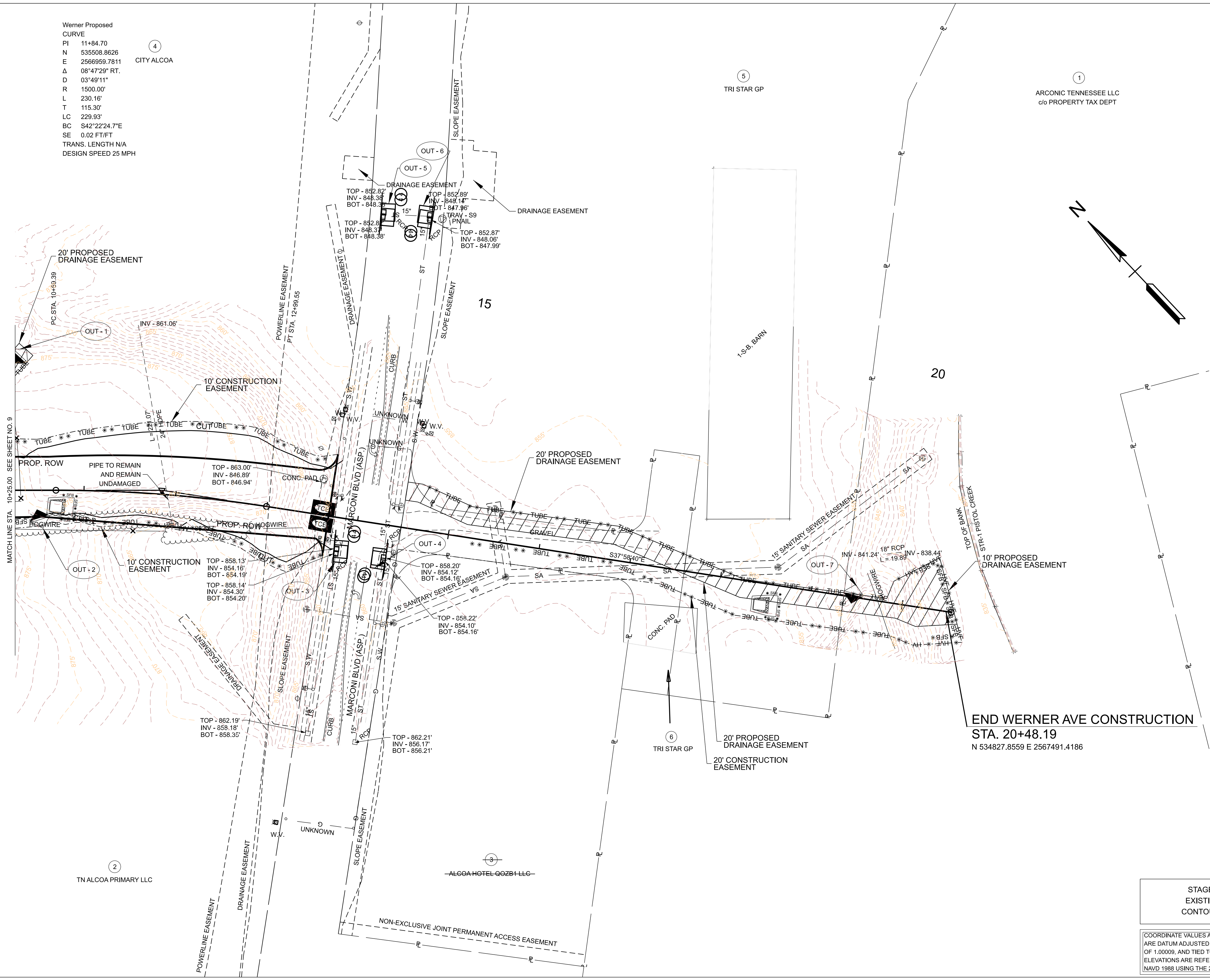
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STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

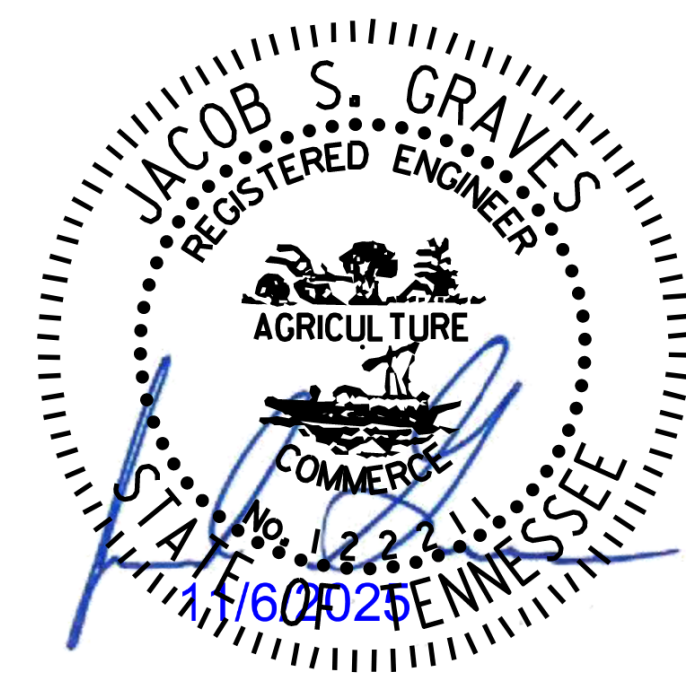
BLOUNT COUNTY, TENNESSEE



MATCHLINE STA. 10+25.00 SEE SHEET NO. 9

END WERNER AVE CONSTRUCTION
STA. 20+48.19
N 534827.8559 E 2567491.4186

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EPSC STAGE 1
FROM STA. 10+25.00 TO
PISTOL CREEK

10

SCALE: 1" = 50'
PROJECT: 47653.02
YEAR: 2025

STAGE 1
EXISTING
CONTOURS

COORDINATE VALUES ARE NAD 83 (2011).
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②
TN ALCOA PRIMARY LLC

③
ALCOA HOTEL Q0ZB1 LLC

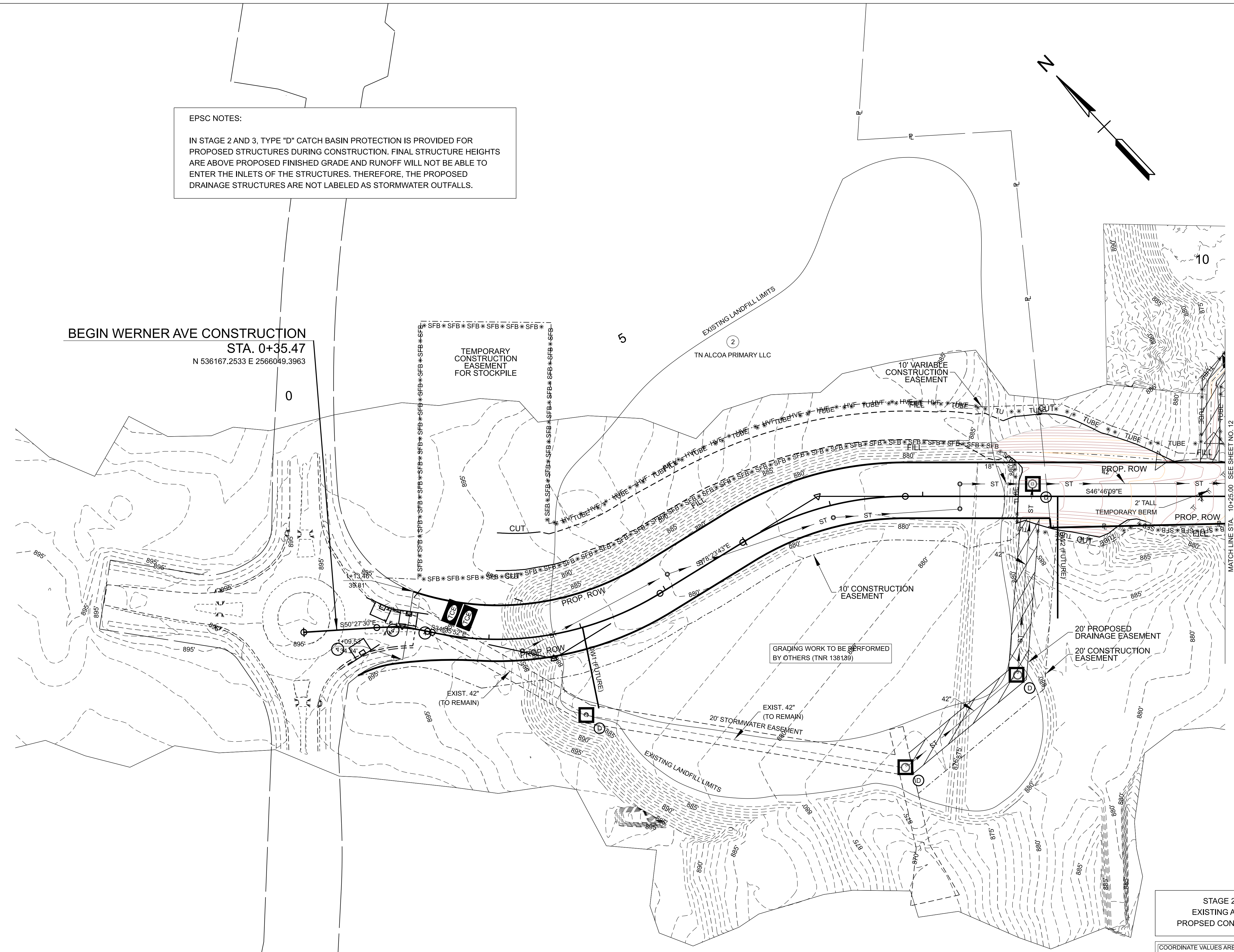
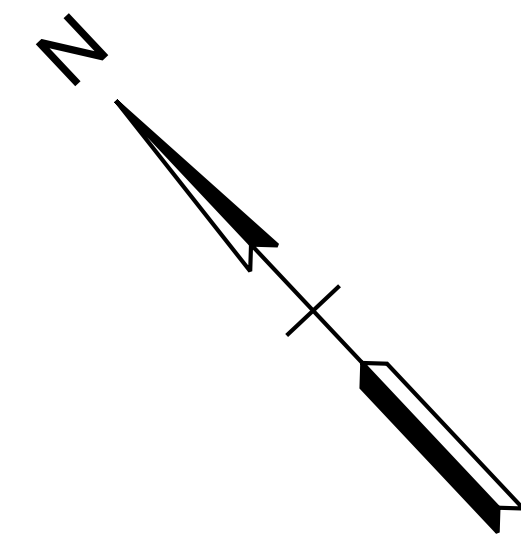
⑥
TRI STAR GP

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

EPSC NOTES:
IN STAGE 2 AND 3, TYPE "D" CATCH BASIN PROTECTION IS PROVIDED FOR PROPOSED STRUCTURES DURING CONSTRUCTION. FINAL STRUCTURE HEIGHTS ARE ABOVE PROPOSED FINISHED GRADE AND RUNOFF WILL NOT BE ABLE TO ENTER THE INLETS OF THE STRUCTURES. THEREFORE, THE PROPOSED DRAINAGE STRUCTURES ARE NOT LABELED AS STORMWATER OUTFALLS.



BEGIN WERNER AVE CONSTRUCTION
STA. 0+35.47
N 536167.2533 E 2566049.3963

TEMPORARY CONSTRUCTION EASEMENT FOR STOCKPILE

TN ALCOA PRIMARY LLC

10' VARIABLE CONSTRUCTION EASEMENT

10' CONSTRUCTION EASEMENT

20' PROPOSED DRAINAGE EASEMENT

20' CONSTRUCTION EASEMENT

GRADING WORK TO BE PERFORMED BY OTHERS (TNR 138139)

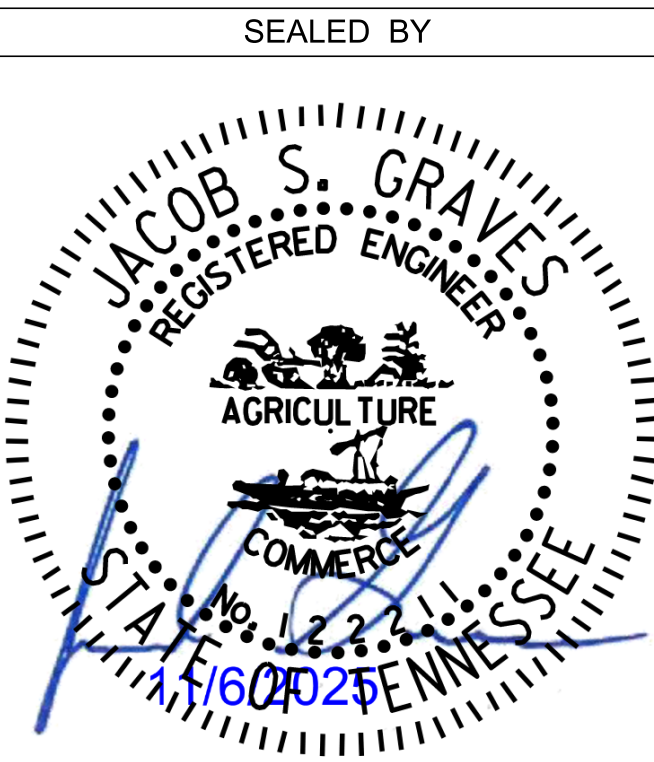
EXIST. 42" (TO REMAIN)

EXIST. 42" (TO REMAIN)

20' STORMWATER EASEMENT

STAGE 2
EXISTING AND
PROPOSED CONTOURS

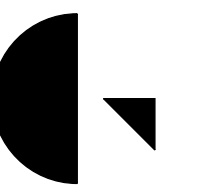
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EPSC STAGE 2
B.O.P. TO STA. 10+25.00

11

SCALE: 1"=50'
PROJECT: 47653.02
YEAR: 2025



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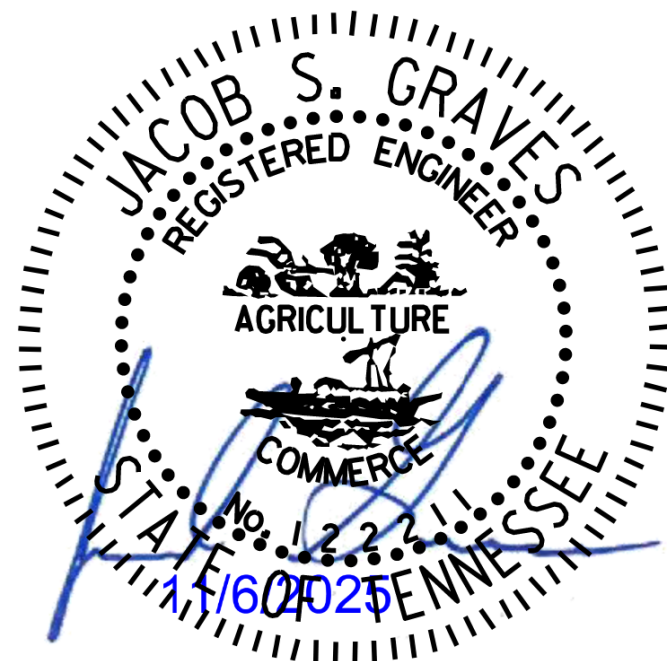
865.521.6777

STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

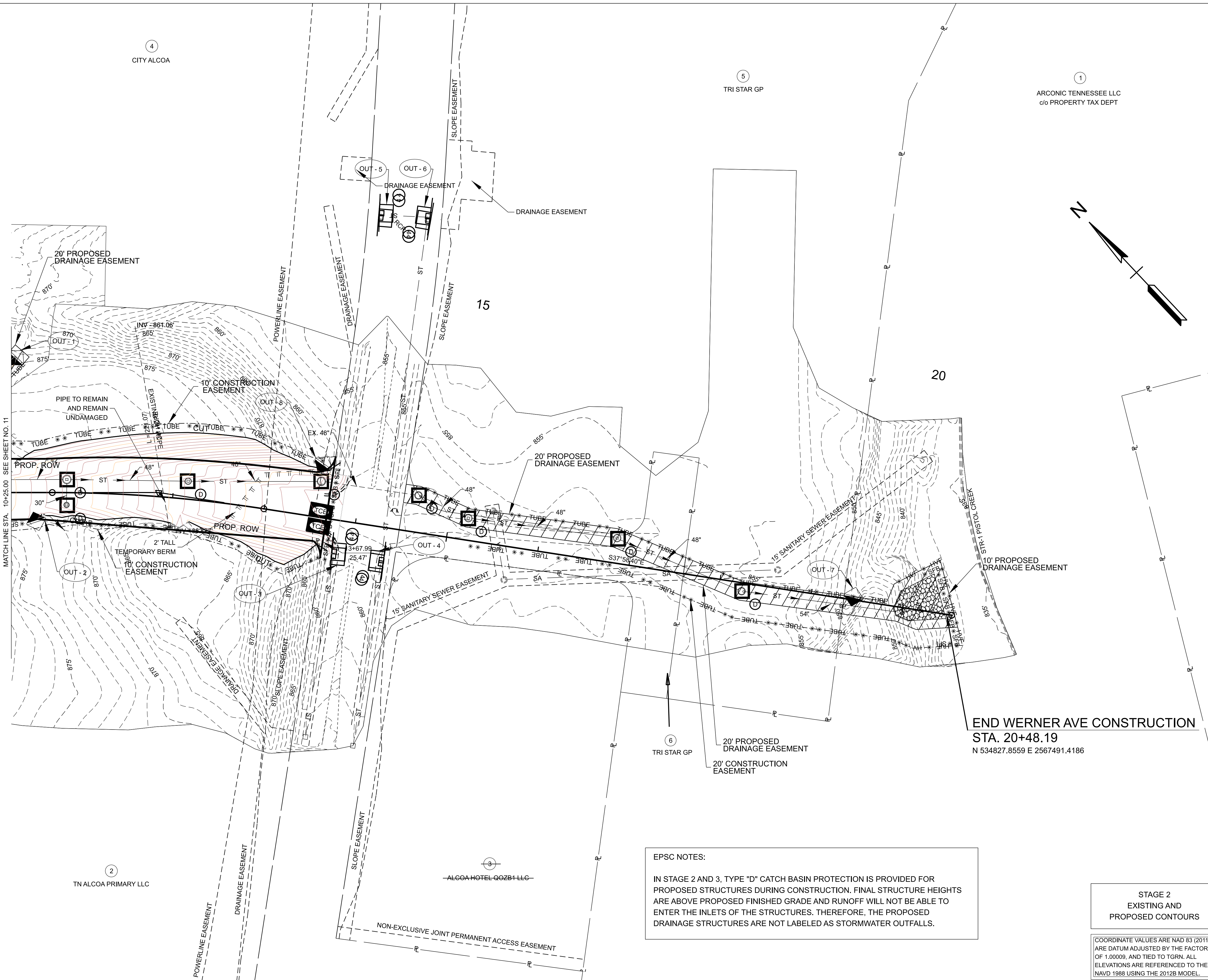
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EPSC STAGE 2
FROM STA. 10+25.00 TO
PISTOL CREEK

12

SCALE: 1" = 50'
PROJECT:
YEAR: 2025



EPSC NOTES:
IN STAGE 2 AND 3, TYPE "D" CATCH BASIN PROTECTION IS PROVIDED FOR PROPOSED STRUCTURES DURING CONSTRUCTION. FINAL STRUCTURE HEIGHTS ARE ABOVE PROPOSED FINISHED GRADE AND RUNOFF WILL NOT BE ABLE TO ENTER THE INLETS OF THE STRUCTURES. THEREFORE, THE PROPOSED DRAINAGE STRUCTURES ARE NOT LABELED AS STORMWATER OUTFALLS.

STAGE 2
EXISTING AND
PROPOSED CONTOURS

COORDINATE VALUES ARE NAD 83 (2011),
ARE DATUM ADJUSTED BY THE FACTOR
OF 1.00009, AND TIED TO TGRN. ALL
ELEVATIONS ARE REFERENCED TO THE
NAVD 1988 USING THE 2012B MODEL.

4
CITY ALCOA

5
TRI STAR GP

1
ARCONIC TENNESSEE LLC
c/o PROPERTY TAX DEPT

2
TN ALCOA PRIMARY LLC

3
ALCOA HOTEL 002B4 LLC

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GreshamSmith.com
 2095 Lakeside Centre Way
 Suite 210
 Knoxville, TN 37922
 865.521.6777

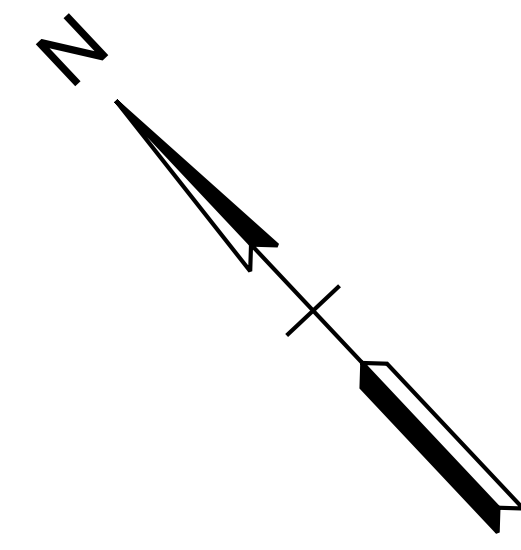
STORMWATER DRAINAGE INFRASTRUCTURE

WERNER AVENUE

BLOUNT COUNTY, TENNESSEE

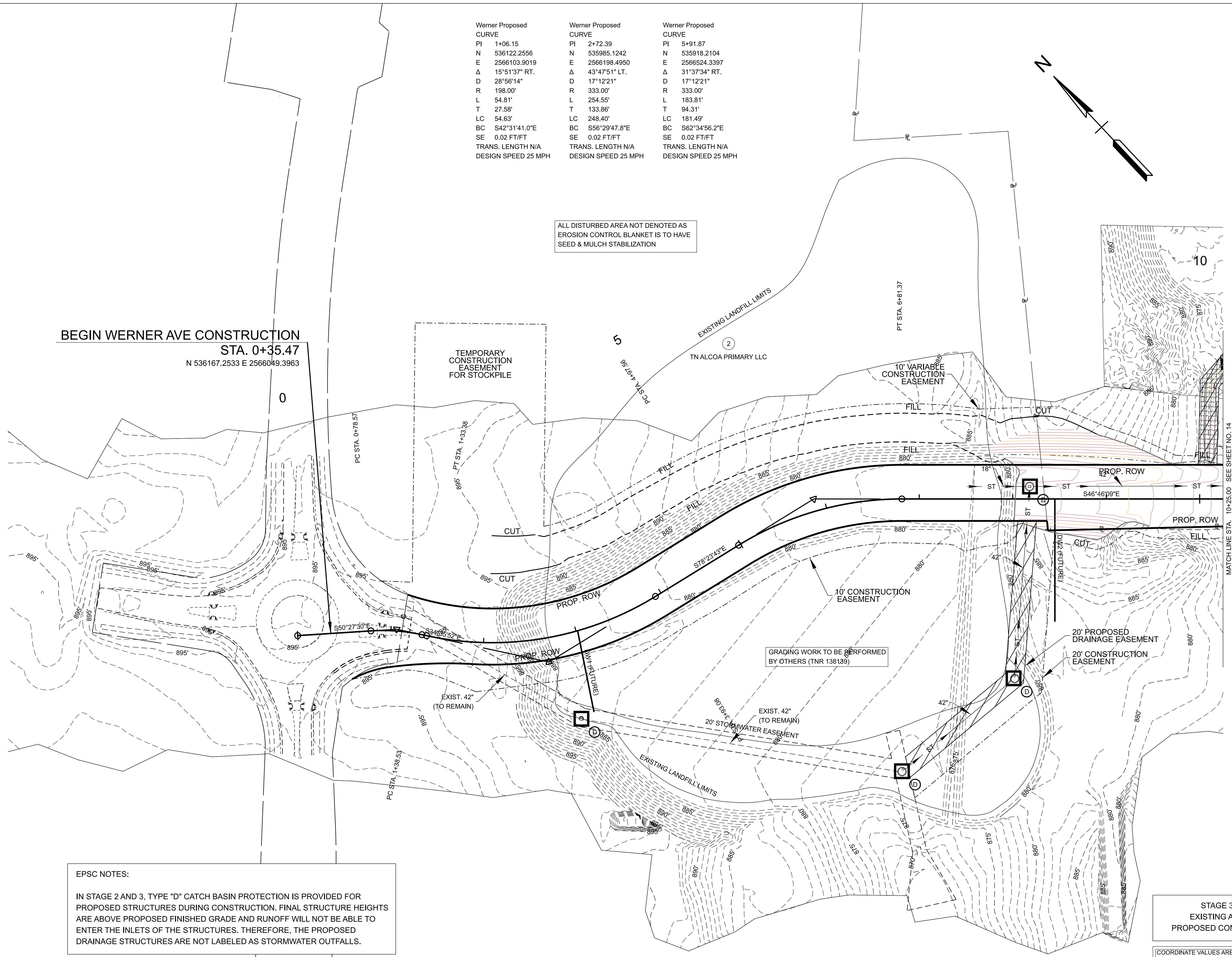
Werner Proposed CURVE	Werner Proposed CURVE	Werner Proposed CURVE
PI 1+06.15	PI 2+72.39	PI 5+91.87
N 536122.2556	N 535985.1242	N 535918.2104
E 2566103.9019	E 2566198.4950	E 2566524.3397
Δ 15°51'37" RT.	Δ 43°47'51" LT.	Δ 31°37'34" RT.
D 28°56'14"	D 17°12'21"	D 17°12'21"
R 198.00'	R 333.00'	R 333.00'
L 54.81'	L 254.55'	L 183.81'
T 27.58'	T 133.86'	T 94.31'
LC 54.63'	LC 248.40'	LC 181.49'
BC S42°31'41.0"E	BC S56°29'47.8"E	BC S62°34'56.2"E
SE 0.02 FT/FT	SE 0.02 FT/FT	SE 0.02 FT/FT
TRANS. LENGTH N/A	TRANS. LENGTH N/A	TRANS. LENGTH N/A
DESIGN SPEED 25 MPH	DESIGN SPEED 25 MPH	DESIGN SPEED 25 MPH

ALL DISTURBED AREA NOT DENOTED AS EROSION CONTROL BLANKET IS TO HAVE SEED & MULCH STABILIZATION



BEGIN WERNER AVE CONSTRUCTION

STA. 0+35.47
 N 536167.2533 E 2566049.3963

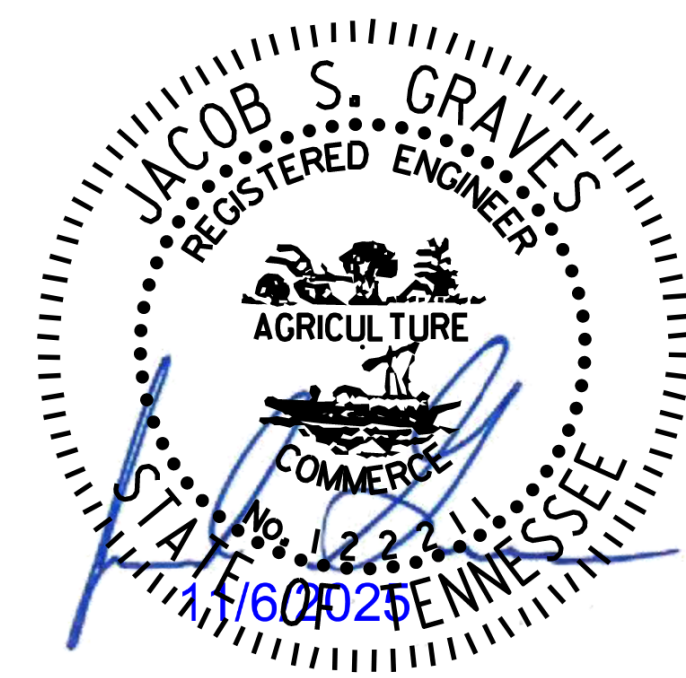


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STAGE 3
 EXISTING AND
 PROPOSED CONTOURS

COORDINATE VALUES ARE NAD 83 (2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009, AND TIED TO TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE 2012B MODEL.

SEALED BY



EPSC STAGE 3
 B.O.P. TO STA. 10+25.00

13

SCALE: 1" = 50'
 PROJECT: 47653.02
 YEAR: 2025

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Werner Proposed
 CURVE
 PI 11+84.70
 N 535508.8626
 E 2566959.7811
 Δ 08°47'29" RT.
 D 03°49'11"
 R 1500.00'
 L 230.16'
 T 115.30'
 LC 229.93'
 BC S42°22'24.7"E
 SE 0.02 FT/FT
 TRANS. LENGTH N/A
 DESIGN SPEED 25 MPH

④
 CITY ALCOA

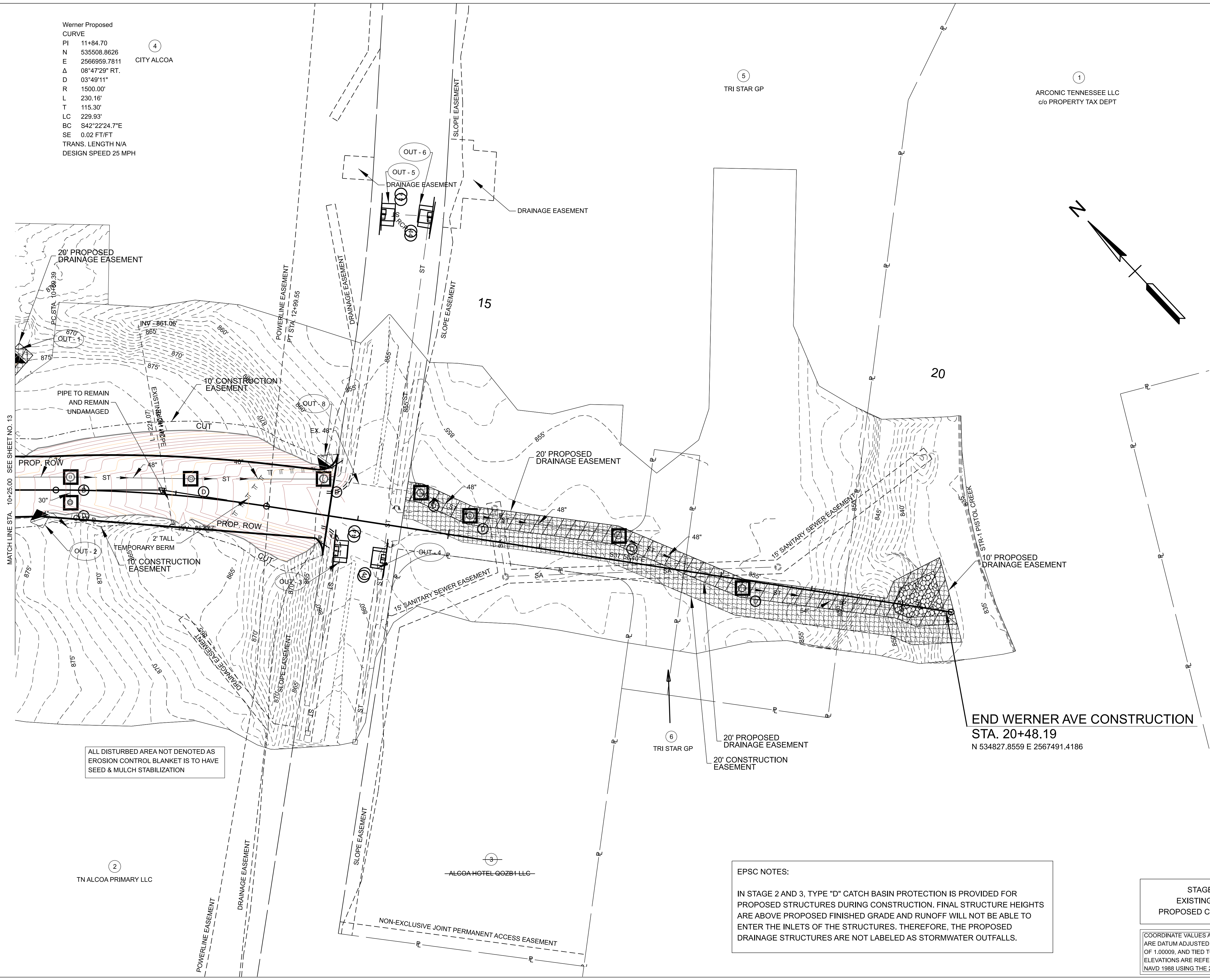
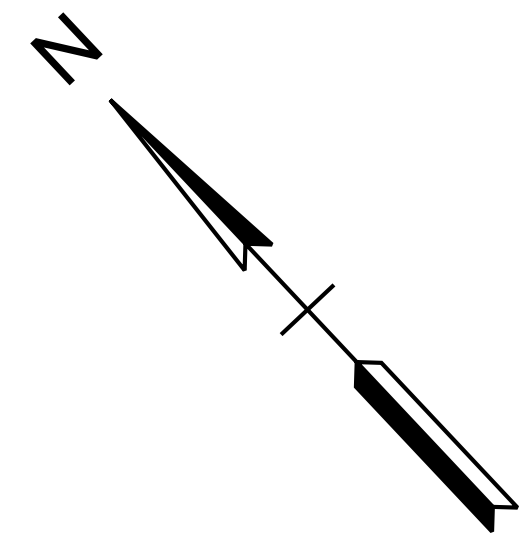
⑤
 TRI STAR GP

①
 ARCONIC TENNESSEE LLC
 c/o PROPERTY TAX DEPT



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STORMWATER DRAINAGE INFRASTRUCTURE
 WERNER AVENUE
 BLOUNT COUNTY, TENNESSEE



MATCH LINE STA. 10+25.00 SEE SHEET NO. 13

END WERNER AVE CONSTRUCTION
 STA. 20+48.19
 N 534827.8559 E 2567491.4186

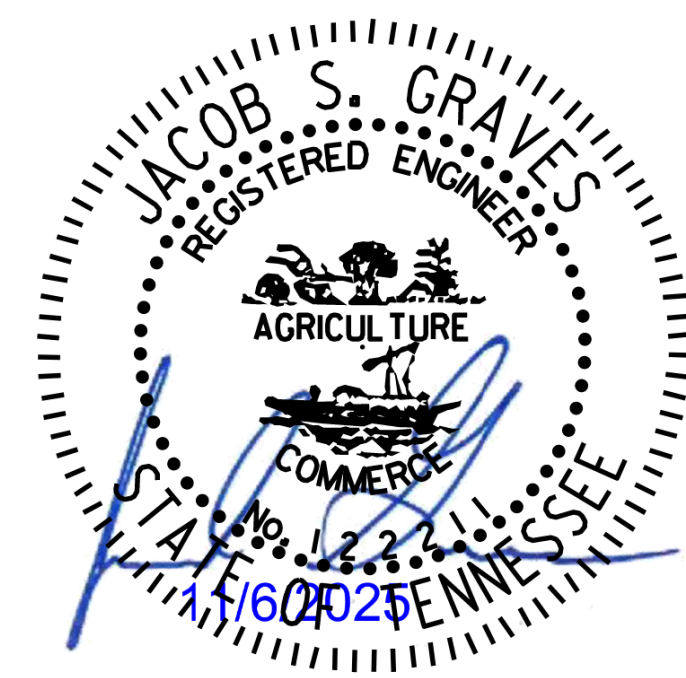
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SEALED BY



EPSC STAGE 3
 FROM STA. 10+25.00 TO
 PISTOL CREEK

14

SCALE: 1" = 50'
 PROJECT: 47653.02
 YEAR: 2025

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②
 TN ALCOA PRIMARY LLC

③
 ALCOA HOTEL QOZB1 LLC