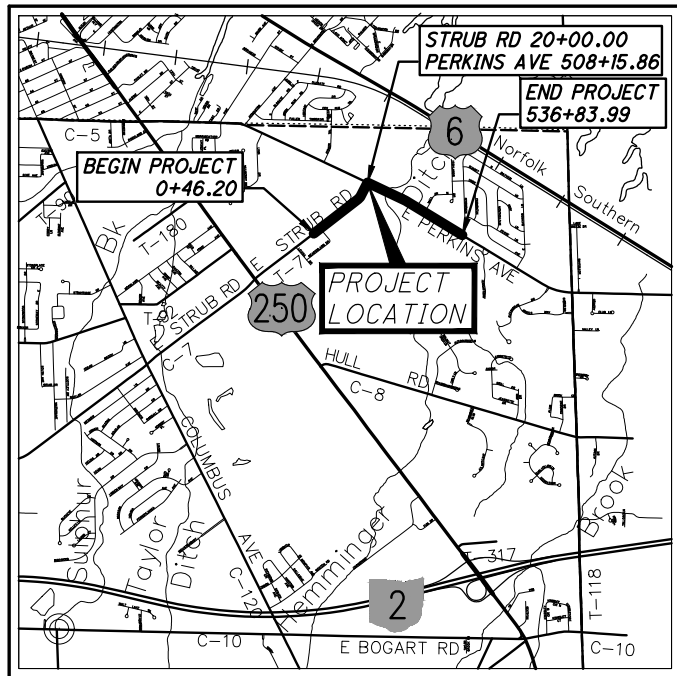


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LOCATION MAP

LATITUDE: 41°25'41" LONGITUDE: 82°39'57"



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	=====
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

**DESIGN DESIGNATION**

CURRENT ADT - E. PERKINS AVE. / E. STRUB RD. (2020).....11,914 / 5,352  
 DESIGN YEAR ADT - E. PERKINS AVE. / E. STRUB RD. (2040).....11,914 / 5,352  
 DESIGN SPEED - E. PERKINS AVE. / E. STRUB RD.....45 MPH / 35 MPH  
 LEGAL SPEED - E. PERKINS AVE. / E. STRUB RD.....45 MPH / 35 MPH  
 DESIGN FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

**ADA DESIGN WAIVER**

NONE

**DESIGN EXCEPTIONS:**

NONE

**UNDERGROUND UTILITIES**

PLAN PREPARED BY:  
 ADAPTIVE ENGINEERING GROUP, LLC  
 5065 OBERLIN AVENUE  
 LORAIN, OHIO, 44053  
 WWW.ADAPTIVEENG.COM 440-444-1022



STATE OF OHIO  
 DEPARTMENT OF TRANSPORTATION  
**D03 SRTS PERKINS**  
**TWP. INF.**  
 PERKINS TOWNSHIP  
 ERIE COUNTY

**INDEX OF SHEETS:**

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ENGINEERS SEAL (AEG): SHEETS 1-41	ENGINEERS SEAL TRAFFIC SIGNALS (TMS ENGINEERS): SHEETS 42-47	ENGINEERS SEAL STRUCTURES (K.E. McCARTNEY): SHEETS 48-55
SIGNED: <i>Matthew D. Hasel</i> DATE: 1/5/2022	SIGNED: <i>Michael W. Schweickart</i> DATE: 1/5/2022	SIGNED: <i>Jason D. Burgholder</i> DATE: 1/5/2022

ODOT STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS				
CB-1	7/16/21	BP-2.2	1/15/21	HL-30.11	1/15/21	MT-97.10	4/19/19	CPA-1-08	7/18/08	800	10/15/21	N/A
CB-2-2A	7/16/21	BP-4.1	7/19/13	HL-30.21	4/17/20	MT-101.90	7/17/20	DS-1-92	7/18/03	816	10/18/19	
CB-2-2B	7/16/21	BP-5.1	7/16/21	HL-30.22	1/15/21	MT-105.10	1/17/20	SB-1-08	1/15/21	832	10/19/18	
DM-1.1	7/17/20	BP-7.1	7/17/20					TST-1-99	1/15/21	907	10/18/19	
DM-4.4	1/15/16			TC-42.20	10/18/13							
				TC-71.10	7/16/21							
				TC-74.10	7/16/21							
				TC-83.20	7/21/17							
				TC-85.10	4/17/20							

**PROJECT DESCRIPTION**

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A CONCRETE SIDEWALK BEGINNING ON THE NORTH SIDE OF EAST STRUB ROAD APPROXIMATELY 150 FT WEST OF MEADOWLAWN DRIVE TO PERKINS AVENUE AND EASTWARDLY ON THE SOUTH SIDE OF EAST PERKINS AVENUE. THE SIDEWALK WILL CROSS TO THE NORTH SIDE OF EAST PERKINS AVENUE BEFORE THE INTERSECTION WITH SANDUSKY MALL BLVD. THE SIDEWALK WILL THEN CONTINUE EASTWARD TO PETERSON LANE ON THE NORTH SIDE OF EAST PERKINS AVENUE WITH PORTIONS BEING ASPHALT TO COMPLY WITH TC ENERGY'S PIPELINE REQUIREMENTS. PEDESTRIAN CROSSINGS WITH PEDESTRIAN SIGNALS WILL BE INSTALLED AS WELL AS A PEDESTRIAN STRUCTURE.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA: 0.94 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A ACRES \*  
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A (0.94 ACRES)  
 NOTICE OF INTENT (NOI) NOT REQUIRED AS THE PROJECT IS LESS THAN 1.0 ACRE OF EARTH DISTURBED AREA (EDA)

\* BASED ON PROJECT TYPE, NO ADDITIONAL CONTRACTOR EDA IS ANTICIPATED.

**2019 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

**TRAFFIC NOT RE-ROUTED**

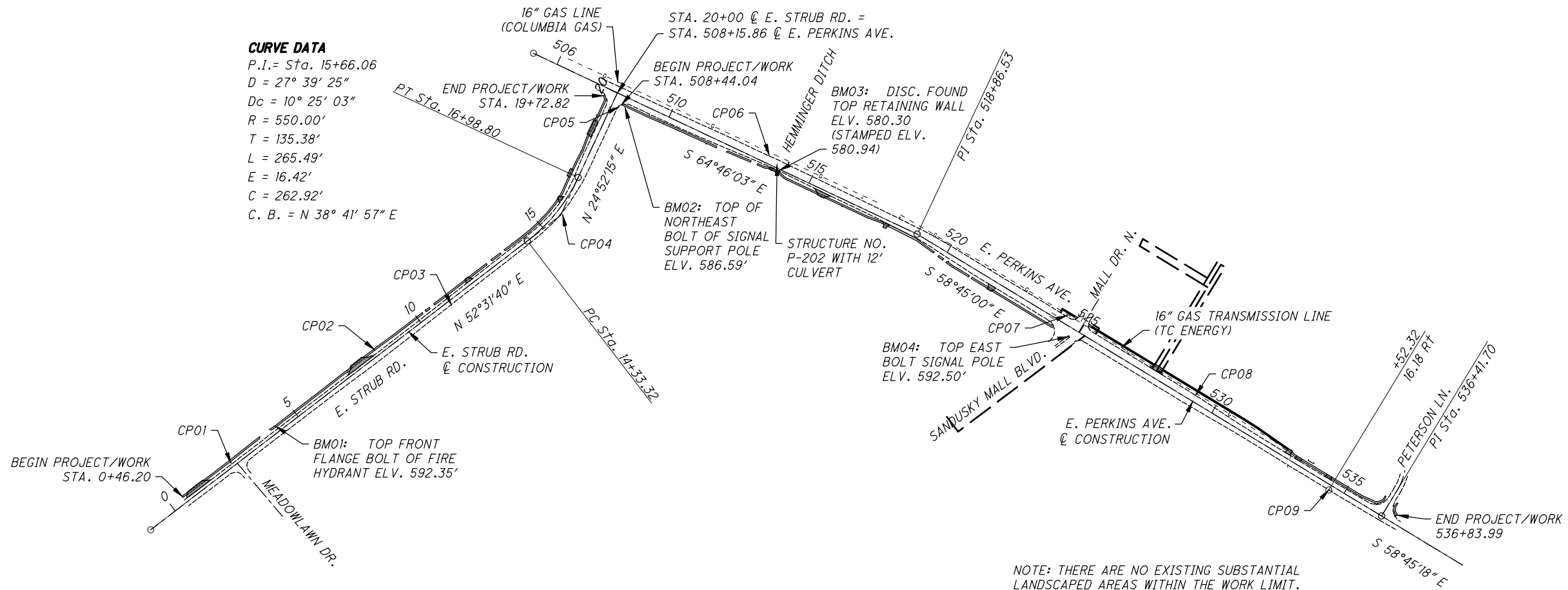
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED *Timothy D. Coleman*  
 DATE 1-6-22 TIMOTHY D. COLEMAN, TRUSTEE

APPROVED *Jeffrey Ferrell*  
 DATE 1-6-22 JEFFREY FERRELL, TRUSTEE

APPROVED *James Lang*  
 DATE 1-6-22 JAMES LANG, TRUSTEE

FEDERAL PROJECT NO.	E(190703)
CONSTRUCTION PROJECT NO.	N/A
RAILROAD INVOLVEMENT	NONE
PID NO.	105034
D03 SRTS PERKINS	
1/79	



**CURVE DATA**  
 P.I. = Sta. 15+66.06  
 D = 27° 39' 25"  
 Dc = 10° 25' 03"  
 R = 550.00'  
 T = 135.38'  
 L = 265.49'  
 E = 16.42'  
 C = 262.92'  
 C. B. = N 38° 41' 57" E

GENERAL SURVEY NOTES

FIELD SURVEY AND BASEMAPPING COMPLETED BY K.E. MCCARTNEY AND ASSOCIATES, INC.

ALL ELEVATIONS SHOWN ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND THE GEOID12 GEOID. HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 (NAD 83 (2011)), AND THE GRS80 ELLIPSOID.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AS MARKED BY OUPS MEMBER COMPANIES AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND 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. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND ARE FROM PLAN INFORMATION ONLY.

SURVEY CONTROL POINTS (BENCHMARKS SHOWN IN ABOVE SCHEMATIC PLAN)

- CP01: PUNCH CONTROL POINT ON WEST RIM OF WATERLINE MANHOLE  
N: 640714.01 E: 1921674.75 ELV: 593.23
- CP02: PUNCH CONTROL POINT ON NORTH RIM OF WATERLINE MANHOLE  
N: 641082.16 E: 1922138.09 ELV: 588.60
- CP03: PUNCH CONTROL POINT ON SOUTH RIM OF SANITARY SEWER MANHOLE  
N: 641226.12 E: 1922387.11 ELV: 590.11
- CP04: MAG NAIL SET IN CONC. ISLAND  
N: 641518.13 E: 1922746.30 ELV: 590.55
- CP05: MAG NAIL SET IN BACK OF CURB  
N: 641866.52 E: 1922927.97 ELV: 586.12
- CP06: PUNCH CONTROL POINT ON TOP OF GUARD RAIL  
N: 641710.77 E: 1923413.79 ELV: 579.81
- CP07: IRON PIN SET AND CAPPED KEM CONTROL  
N: 641193.19 E: 1924377.12 ELV: 591.08
- CP08: MAG NAIL SET  
N: 640934.40 E: 1924791.52 ELV: 584.98
- CP09: MAG NAIL SET  
N: 640629.18 E: 1925222.03 ELV: 589.19

NOTE: CONTROL POINTS AND BENCHMARKS ARE ALSO REFERENCED ON THE PLAN AND PROFILE SHEETS AND ON THE RIGHT OF WAY CENTERLINE PLAT TABLE (SHEET 58).

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 CHECKED  
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0 200 400  
 HORIZONTAL SCALE IN FEET

**SCHEMATIC PLAN**

**D03 SRTS PERKINS**

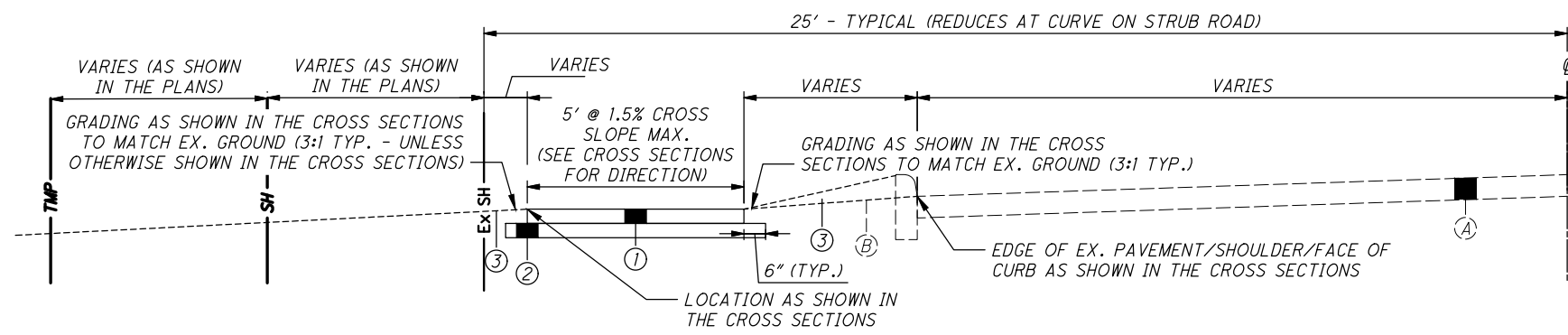
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TYPICAL SECTIONS

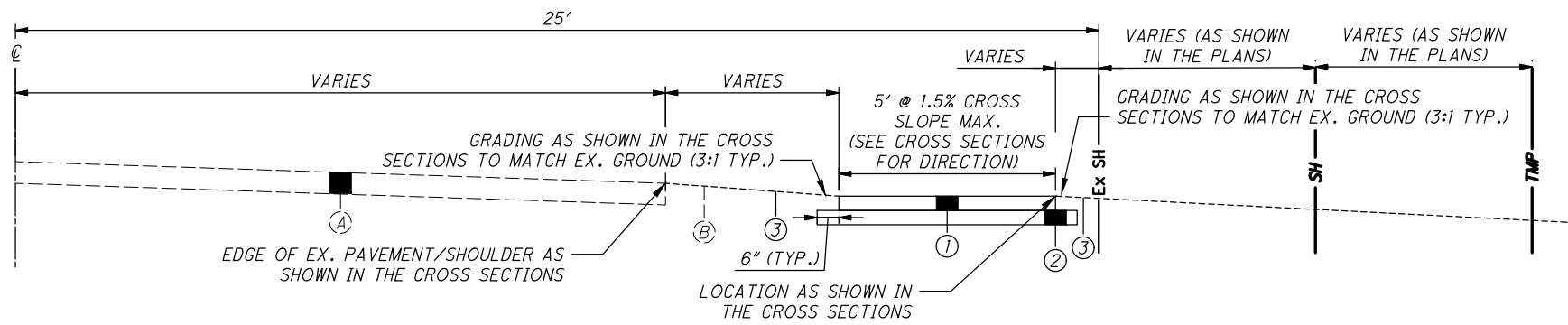
D03 SRTS PERKINS

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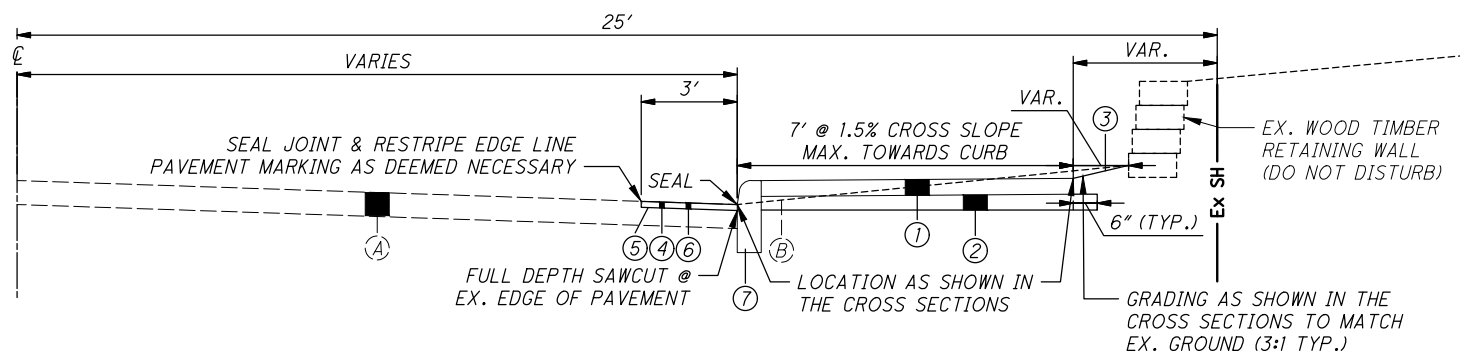
**TYPICAL SECTION - LT SIDE CONCRETE SIDEWALK W/ TREE LAWN**

E. STRUB ROAD: BEGIN STATION 0+46.20 TO END STATION 19+72.82 = 1,926.62 FT  
E. PERKINS AVENUE: BEGIN STATION 532+86.20 TO END STATION 536+83.99 = 397.79 FT



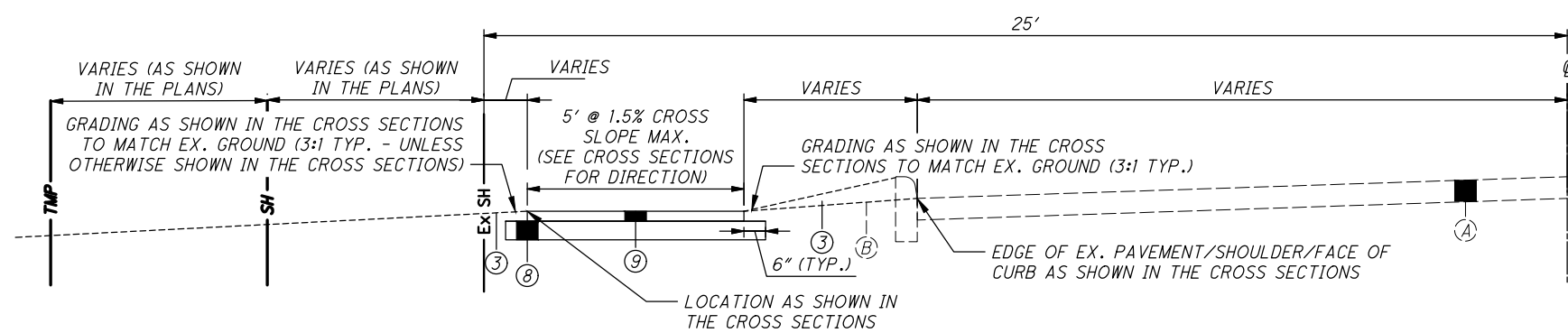
**TYPICAL SECTION - RT SIDE CONCRETE SIDEWALK W/ TREE LAWN**

E. PERKINS AVENUE: BEGIN STATION 508+44.04 TO END STATION 517+00.00 = 855.96 FT  
SUSPEND / RESUME AT PROPOSED PEDESTRIAN STRUCTURE: STATION 513+63.26 TO STATION 513+98.21 = 34.95 FT  
E. PERKINS AVENUE: BEGIN STATION 519+00.00 TO END STATION 524+16.11 = 516.11 FT



**TYPICAL SECTION - RT SIDE CONCRETE SIDEWALK W/OUT TREE LAWN**

E. PERKINS AVENUE: BEGIN STATION 517+00.00 TO END STATION 519+00.00 = 200.00 FT



**TYPICAL SECTION - LT SIDE ASPHALT SIDEWALK W/ TREE LAWN**

E. PERKINS AVENUE: BEGIN STATION 524+11.11 TO END STATION 532+69.96 = 858.85 FT

**LEGEND**

- (A) EX. ASPHALT PAVEMENT
- (B) EX. GRASSED TREE LAWN
- (1) ITEM 608 - 4" CONCRETE WALK, AS PER PLAN (SEE NOTE BELOW)
- (2) 4" ITEM 411 - STABILIZED CRUSHED AGGREGATE (OR ODOT ITEM 304 - AGGREGATE BASE) (LIMESTONE) (SEE NOTE BELOW)
- (3) ITEM 659 - TOPSOIL (QUANTITY BASED ON 4" THICKNESS)  
ITEM 659 - SEEDING AND MULCHING, CLASS 1
- (4) VAR. DEPTH (0" - 1.5") - ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE
- (5) ITEM 407 - TACK COAT
- (6) 1.5" - ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- (7) ITEM 608 - CURB, TYPE 6, AS PER PLAN (SEE NOTE BELOW)
- (8) 5" ITEM 411 - STABILIZED CRUSHED AGGREGATE (OR ODOT ITEM 304 - AGGREGATE BASE) (LIMESTONE) (SEE NOTE BELOW)
- (9) ITEM 608 - 2" ASPHALT CONCRETE WALK, AS PER PLAN

**TYPICAL SECTION - RT SIDE CONCRETE SIDEWALK W/OUT TREE LAWN NOTES:**

- TRANSITION FROM 5' SIDEWALK WITH TREE LAWN TO 7' SIDEWALK (TO FC) AND BACK TO 5' SIDEWALK WITH TREE LAWN AS SHOWN IN THE PLANS.
- THE INTENT OF THE CURB HORIZONTAL ALIGNMENT IS TO BE LOCATED AT THE EXISTING EDGE OF PAVEMENT (EP). THE EXISTING EP ELEVATION SHALL ALSO CONTROL THE CURB ELEVATION (TOP OF CURB (TC) IS TO BE +6" HIGHER THAN THE EXISTING EP).
- VERTICAL CURB TAPER (0"-6") SHALL BE MADE IN 10 FEET AT BOTH THE BEGINNING AND ENDING OF THE CURB.

**ITEM 608 - CURB, TYPE 6, AS PER PLAN**

A FULL DEPTH SAWCUT SHALL BE REQUIRED SO THAT THE CURB CAN BE CONSTRUCTED ADJACENT TO A CLEAN VERTICAL JOINT (AND SEALED). THE SAWCUT FOR THE CURB CONSTRUCTION SHALL BE INCIDENTAL TO ITEM 608 - CURB, TYPE 6, AS PER PLAN. VERTICAL CURB TAPERS SHALL BE MADE AT 2" TO 6" IN 10'. THIS ITEM SHALL ALSO INCLUDE NECESSARY EXCAVATION FOR THE CURB AND BACKFILLING BEHIND THE CURB.

**ITEM 608 - 4" CONCRETE WALK, AS PER PLAN**

4" ITEM 411 - STABILIZED CRUSHED AGGREGATE (OR ODOT ITEM 304 - AGGREGATE BASE) SHALL BE INCIDENTAL TO ITEM 608 - 4" CONCRETE WALK, AS PER PLAN. MATERIAL SHALL BE LIMESTONE. EXCAVATION FOR THE 411 BASE AND SIDEWALK SHALL BE INCIDENTAL TO THIS ITEM. THE BACKFILL ABOVE THE 6" WIDE AGGREGATE BASE STEP ON EACH SIDE OF THE SIDEWALK HAS BEEN QUANTIFIED AS ITEM 659 - TOPSOIL (4") DEPTH.

**ITEM 608 - 2" ASPHALT CONCRETE WALK, AS PER PLAN**

5" ITEM 411 - STABILIZED CRUSHED AGGREGATE (OR ODOT ITEM 304 - AGGREGATE BASE) SHALL BE INCIDENTAL TO ITEM 608 - 2" ASPHALT CONCRETE WALK, AS PER PLAN. MATERIAL SHALL BE LIMESTONE. EXCAVATION FOR THE 411 BASE AND SIDEWALK SHALL BE INCIDENTAL TO THIS ITEM. THE BACKFILL ABOVE THE 6" WIDE AGGREGATE BASE STEP ON EACH SIDE OF THE SIDEWALK HAS BEEN QUANTIFIED AS ITEM 659 - TOPSOIL (4") DEPTH.

**SIDEWALK DEPTHS AT DRIVEWAYS**

THE SIDEWALK DEPTHS AT DRIVEWAYS SHALL BE INCREASED PER THE DETAILS FOUND ON SHEETS 40-41. PAYMENT SHALL BE MADE AT THESE LOCATIONS PER APPLICABLE ITEM 452 ITEMS.

**GENERAL**

WHERE SPECIFIED, THE 2019 STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) (ODOT ITEM NUMBERS) INCLUDING SUPPLEMENTAL SPECIFICATIONS (SS) AND STANDARD CONSTRUCTION DRAWINGS (SCD) SHALL APPLY EXCEPT AS MODIFIED OR EXPANDED HEREIN OR IN THE TECHNICAL SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH LOCAL BUILDING AND ZONING CODES AND REGULATIONS. IN THE EVENT THAT CONSTRUCTION PLANS AND LOCAL CODES AND REGULATIONS ARE INCONSISTENT, THE LOCAL CODES AND REGULATIONS SHALL SUPERSEDE THE CONSTRUCTION PLANS AND GOVERN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF ALL PERSONS, INCLUDING EMPLOYEES, AND PROPERTY.

IN THE EVENT THAT POTENTIAL ENVIRONMENTAL HAZARDS (E.G.: UNDERGROUND STORAGE TANKS, CONTAMINATED SOILS, WASTE DISPOSAL SITES, ETC), ARCHAEOLOGICAL REMAINS, OR HISTORIC OR PREHISTORIC HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL CEASE OPERATIONS IMMEDIATELY AND IMMEDIATELY CONTACT THE OWNER.

PROJECT RELATED REMOVALS AND/OR DEMOLISHMENTS SHALL NOT BEGIN UNTIL THE OWNER PROVIDES NOTICE TO PROCEED WITH SAID WORK. ANY ITEM REMOVAL THAT IS NOT SPECIFICALLY DESIGNATED IN THE PLANS, BUT IS REQUIRED FOR THE PROPOSED WORK TO BE COMPLETED, SHALL BE REMOVED BY THE CONTRACTOR. COST OF SAID REMOVALS SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS RELATED ITEMS.

ALL SURFACES INCLUDING DRAINAGE STRUCTURES, LANDSCAPING, PAVEMENTS, DRIVEWAYS, BERMS AND OTHER SURFACES DISTURBED DURING CONSTRUCTION OF THIS PROJECT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. THE CONTRACTOR SHALL KEEP ALL STREETS, LANES AND PARKING AREAS ADJACENT TO THE PROJECT CLEAN AND FREE FROM ANY DEBRIS, MUD AND/OR OTHER CONSTRUCTION EQUIPMENT AT ALL TIMES DURING THE PROJECT.

ALL ITEMS OF WORK CALLED FOR IN THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE COMPLETED BY THE CONTRACTOR. COST OF SAID ITEMS OF WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS RELATED ITEMS. IT IS THE INTENTION OF THE PLANS TO PROVIDE AND REQUIRE A COMPLETED PROJECT READY FOR OPERATION. ANY WORK ITEMS OMITTED FROM THE PLANS WHICH ARE CLEARLY NECESSARY FOR THE COMPLETION OF SUCH WORK AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK ALTHOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE PLANS.

ANY DEFECTS IN CONSTRUCTION, INCLUDING MATERIAL OR WORKMANSHIP, SHALL BE CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS PRIOR TO ACCEPTANCE BY THE OWNER. COSTS SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ANY MODIFICATIONS TO THE WORK SHOWN IN THESE APPROVED PLANS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE OWNER.

**UTILITIES NOTE - 1919 SANDUSKY MALL BLVD.**  
IN ADDITION TO OHIO UTILITIES PROTECTION SERVICE (OUPS) NOTIFICATION REQUIREMENTS THAT ARE MANDATED BY THE OHIO REVISED CODE, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT THE PROPERTY OWNER OF THE ABOVE ADDRESS (PPN: 32-03101.001) TO REVIEW AND DISCUSS UTILITIES AT THIS LOCATION. SAID MEETING SHALL OCCUR AFTER THE OUPS NOTIFICATION HAS CLEARED (ALL UTILITIES MARKED) AND PRIOR TO THE CONTRACTOR BEGINNING ANY WORK ADJOINING THIS PARCEL. THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER AT LEAST 3 DAYS PRIOR TO ANTICIPATED WORK STARTING IN THE VICINITY TO SCHEDULE THIS MEETING.

BRAD LINK, PERKINS TOWNSHIP'S DIRECTOR OF PUBLIC WORKS, SHALL BE AT THIS MEETING AND SHALL BE NOTIFIED BY THE CONTRACTOR WHENEVER PROJECT WORK IS OCCURRING ADJACENT TO THIS PARCEL. BRAD'S CONTACT INFORMATION CAN BE FOUND ON THIS SHEET. THE PROPERTY OWNER'S INFORMATION FOR THIS PARCEL IS: DALE R. COFFMAN, JR., OFFICE NO.: 419-627-1996, DIRECT NO.: 419-621-7212.

**PROTECTION OF EXISTING UTILITIES AND PIPES**

THE CONTRACTOR SHALL BE REQUIRED, TO DO EVERYTHING NECESSARY TO PROTECT, SUPPORT AND SUSTAIN ALL STORM SEWERS, WATER AND GAS PIPES, SERVICE PIPES, ELECTRIC LIGHTS, POWER AND TELEPHONE POLES, CONDUIT AND OTHER FIXTURES LAID ACROSS OR ALONG THE SITE OF THE WORK. THE COMPANY OR CORPORATION OWNING SAID PIPES, POLES OR CONDUITS MUST BE NOTIFIED OF THE SAME BY THE CONTRACTOR, BEFORE ANY SUCH FIXTURES ARE REMOVED OR DISTURBED. IN CASE ANY OF THE SAID SEWER, GAS OR WATER PIPES, SERVICE PIPES, ELECTRICAL LIGHT, POWER AND TELEPHONE POLES, CONDUITS OR OTHER FIXTURES ARE DAMAGED THEY SHALL BE REPAIRED BY THE AUTHORITIES HAVING CONTROL OF THE SAME AT NO ADDITIONAL COST TO THE OWNER.

SHOULD IT BECOME NECESSARY TO CHANGE THE POSITION, OR TEMPORARILY REMOVE ANY STORM SEWER, SANITARY SEWER, ELECTRIC CONDUITS, WATER PIPES, GAS PIPES OR OTHER PIPES OR WIRES IN ORDER TO PERMIT THE CONTRACTOR TO USE A PARTICULAR METHOD OF CONSTRUCTION OR IN ORDER TO CLEAR THE STRUCTURES BEING BUILT, THE CONTRACTOR SHALL NOTIFY THE OWNER OF THE LOCATION AND CIRCUMSTANCES AND SHALL CEASE WORK, IF NECESSARY, UNTIL SATISFACTORY ARRANGEMENTS HAVE BEEN MADE BY THE OWNERS OF SAID PIPES OR WIRES TO PROPERLY CARE FOR THE SAME.



**GENERAL UTILITIES NOTE:**

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C. THEY ARE APPROXIMATE ONLY, THE ENGINEER AND OWNER CANNOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES AS TO LINE & GRADE BEFORE STARTING ANY WORK.

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

**CABLE**

BUCKEYE BROADBAND  
2700 OREGON ROAD  
NORTHWOOD, OHIO 43619  
CONTACT: MICHAEL SHEHAN  
419-724-3713

**GAS**

COLUMBIA GAS OF OHIO  
1800 BROAD AVENUE  
FINDLAY, OHIO 45840  
CONTACT: NATHAN HOY  
419-615-2930 (CELL)

**GAS-TRANSMISSION**

TC ENERGY  
13292 SMITH ROAD  
WELLINGTON, OHIO 44090  
CONTACT: DAVID WARE  
(LOCAL OPERATIONS FIELD TECHNICIAN)  
419-577-1396 (CELL)

**PERKINS AVE STORM SEWERS AND TRAFFIC SIGNALS**

ERIE COUNTY ENGINEER'S OFFICE  
2700 COLUMBUS AVE.  
SANDUSKY, OH 44870  
CONTACT: JOHN D. FARSCHMAN, P.E., P.S.  
419-627-7710

**STRUB RD STORM SEWERS**

PERKINS TOWNSHIP  
2610 COLUMBUS AVE.  
SANDUSKY, OHIO 44870  
CONTACT: BRAD LINK (DIRECTOR OF PUBLIC WORKS)  
419-609-1433

**WATER AND SEWER**

ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES  
554 RIVER ROAD  
HURON, OHIO 44839  
CONTACT: BILL FLECK (ENVIRONMENTAL SPECIALIST)  
419-433-7303 (X2308)  
419-656-0577 (CELL)

**ELECTRIC**

OHIO EDISON  
2508 WEST PERKINS AVE.  
SANDUSKY, OHIO 44870  
CONTACT: JIM ROHRBACHER  
419-627-6881

**TELEPHONE**

AT&T  
130 N. ERIE ST.  
ROOM 705  
TOLEDO, OHIO 43604  
CONTACT: ROB FEY  
419-245-5004

**EVERSTREAM SOLUTIONS**

1228 EUCLID AVE.  
SUITE 250  
CLEVELAND, OHIO 44115  
CONTACT: GIO REILLO  
216-905-0780

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

**SYMBOL AND LINE TYPE LEGEND**

	AIR CONDITIONER
	BENCHMARK SET
	YARD LIGHT
	BUSH OR SHRUB
	EXISTING CATCHBASIN
	EXISTING CATCHBASIN
	CLEAN OUT
	DOWNSPOUT
	GUY WIRE
	POWER POLE
	ELECTRIC BOX
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	EVERGREEN TREE
	FLAG POLE
	GAS METER
	GAS LINE MARKER
	GAS SERVICE VALVE
	TACKED HUB SET-TEMP CONTROL
	IRON PIN FOUND
	IRON PIN FOUND W/ ID CAP
	WROUGHT IRON FENCE
	CHAIN LINK FENCE
	EXISTING STORM SEWER
	EXISTING CONTOUR - MAJOR
	EXISTING CONTOUR - MINOR
	EXISTING CURB
	EXISTING DRIVEWAY
	EXISTING EDGE OF PAVEMENT
	EXISTING SHOULDER
	EXISTING FENCE
	EXISTING UTILITY EASEMENT
	EXISTING UNDERGROUND ELECTRIC
	EXISTING GAS LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING SANITARY SEWER
	EXISTING TELEPHONE
	EXISTING WATERLINE
	LIGHT POLE
	MAG NAIL SET-TEMP CONTROL
	POST/BOLLARD
	TRAFFIC CONTROL BOX
	SIGN
	SANITARY MANHOLE
	STORM MANHOLE
	STUMP
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	DECIDUOUS TREE
	SPRINKLER HEAD
	WATER VALVE
	WATER MANHOLE
	WATER WELL
	YARD HYDRANT
	FIRE HYDRANT

**PROJECT REQUIREMENTS FOR CONSTRUCTION ACTIVITIES NEAR TC ENERGY'S GAS TRANSMISSION LINES**  
AN ON-SITE TC ENERGY REPRESENTATIVE SHALL BE PRESENT DURING ALL CONSTRUCTION ACTIVITIES THAT ARE NEAR TC ENERGY'S GAS TRANSMISSION LINES.

VIBRATORY EQUIPMENT SHALL NOT BE UTILIZED WITHIN TC ENERGY'S RIGHT-OF-WAY (STATIC ROLLERS ARE ACCEPTABLE).

CONSTRUCTION EQUIPMENT, MATERIALS, AND/OR SPOILS SHALL NOT BE STORED NEAR THE PIPELINE (SAID ITEMS SHALL NOT BE STORED IN THE AREA BETWEEN THE PROPOSED SIDEWALK AND ROADWAY WITHIN THE PIPELINE LIMITS).

EQUIPMENT THAT WILL CROSS THE PIPELINE WILL REQUIRE ANALYSIS BY TC ENERGY PRIOR TO ENTERING TC ENERGY'S RIGHT-OF-WAY. SAID ANALYSIS SHALL BE COORDINATED BY THE CONTRACTOR AND THE ON-SITE TC ENERGY REPRESENTATIVE (CONTACT INFORMATION AS SHOWN ON THIS SHEET).



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GENERAL SURVEY NOTES:

THIS PLAN AND PROJECT DESIGN IS BASED UPON A FIELD TOPOGRAPHIC SURVEY AND BASEMAP PERFORMED BY K.E. MCCARTNEY AND ASSOCIATES, INC. IN JULY/AUGUST 2020 AND SUPPLEMENTED BY THE COLLECTION OF FIELD DATA BY ADAPTIVE ENGINEERING GROUP, LLC. IN AUGUST AND NOVEMBER 2020.

PROJECT SURVEY CONTROL

SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (ON THE PROJECT SIDE; BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

RESTORATION FOR INSTALLATIONS AND/OR REMOVALS  
WHEREVER EXISTING GROUND IS DISTURBED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL RESTORE THE DISTURBED AREA, IN KIND, TO A CONDITION THAT IS EQUIVALENT OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.

ENVIRONMENTAL COMMITMENT NOTE

THE LOCAL SPONSOR SHALL ENSURE THAT THE REGULATED FLOODPLAIN OF KOB DITCH IS NOT IMPACTED BY THE PROJECT.

ADDITIONAL SOIL INFORMATION

THE SOIL PROFILE AND/OR STRUCTURE FOUNDATION EXPLORATION SHEETS CONTAIN ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN. ADDITIONAL SUBSURFACE INVESTIGATION INFORMATION IS AVAILABLE FROM INTERTEK PSI'S "SUBSURFACE EXPLORATION REPORT FOR THE PROPOSED PEDESTRIAN BRIDGE - EAST PERKINS AVENUE" - DATE 9/10/2020.

PRECONSTRUCTION VIDEO

THE CONTRACTOR SHALL SUBMIT A PRECONSTRUCTION VIDEO OF THE ENTIRE PROJECT'S WORK LIMITS TO THE ENGINEER PRIOR TO COMMENCING WORK. COSTS SHALL BE INCIDENTAL TO ITEM 624 - MOBILIZATION.

PROTECTION AND RESTORATION OF PROPERTY

THE CONTRACTOR SHALL USE CARE TO PROTECT PUBLIC AND PRIVATE PROPERTY AS PER ITEM 107.10 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS. IF THE CONTRACTOR CAUSES ANY DIRECT OR INDIRECT DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY BY ANY ACT, OMISSION, NEGLIGENCE, OR MISCONDUCT IN THE EXECUTION OR THE NON-EXECUTION OF THE WORK, THEN IT MUST RESTORE, AT ITS OWN EXPENSE, THE PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE THE DAMAGE OR INJURY.

IF MAILBOXES, ROAD, OR STREET NAME SIGNS AND SUPPORTS INTERFERE WITH THE WORK, THEN REMOVE AND ERECT THEM ON TEMPORARY SUPPORTS IN A TEMPORARY LOCATION DURING CONSTRUCTION IN A MANNER SATISFACTORY TO, AND AS DIRECTED BY THE ENGINEER. AFTER COMPLETION OF THE WORK AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, ERECT THE MAILBOXES, ROAD, OR STREET NAME SIGNS AND SUPPORTS IN THEIR PERMANENT LOCATIONS ACCORDING TO THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAILBOXES THAT REQUIRE RELOCATION SHALL HAVE NEW POSTS AS DESCRIBED BELOW, AND SHALL BE SET SO THE FRONT OF THE MAILBOX IS APPROXIMATELY 6" FROM THE BACK OF CURB. UNCURBED LOCATIONS SHALL HAVE THE BACK OF THE MAILBOX LOCATED COMPLETELY OUT OF THE SIDEWALK LIMITS.

POST SUPPORTS FOR RELOCATED MAILBOXES SHALL BE AS FOLLOWS:

1. WOOD POSTS SHALL BE NOMINAL 4" BY 4" SQUARE OR 4-1/2" DIAMETER ROUND, AND CONFORM TO 710.04.
2. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., SCHEDULE 40 STANDARD STRENGTH STEEL PIPE.
3. ANY MATERIAL WITH BREAKAWAY CROSS SECTION CHARACTERISTICS EQUIVALENT TO ITEMS 1 OR 2 ABOVE. EXISTING POSTS MAY BE SALVAGED FOR REUSE IF THEY MEET SAID CRITERIA AS WELL.

THE COST OF MAILBOX RELOCATIONS SHALL BE COMPENSATED PER ITEM SPECIAL - MAILBOX REMOVED AND RESET. THE COST ASSOCIATED WITH INSTALLING THE IMPACTED MAILBOX IN A TEMPORARY LOCATION DURING CONSTRUCTION (AS DEEMED NECESSARY) SHALL BE INCLUDED WITH THIS ITEM. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - MAILBOX REMOVED AND RESET 4 EACH

THE COSTS OF TEMPORARILY ERECTING STREET AND ROAD SIGNS, PER THE ABOVE NOTE, ON TEMPORARY SUPPORTS SHALL BE INCLUDED WITH ITEM 614 - MAINTAINING TRAFFIC. THE FINAL RESETTING OF SAID SIGNS AND POSTS HAVE BEEN ITEMIZED SEPARATELY AND SHALL BE COMPENSATED PER THE ITEMS CONTAINED WITHIN THE PLANS.

ITEM 201 - CLEARING AND GRUBBING

THE PLANS SPECIFICALLY MARK TREES, SHRUBS, AND BRUSH TO BE REMOVED AND/OR TRIMMED WITHIN THE LIMITS OF THE PROJECT. WORK SHALL BE COMPENSATED UNDER THE LUMP SUM QUANTITY THAT IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

SIDEWALK PROFILE

THE INTENT OF THE PROPOSED SIDEWALK IS TO MATCH EXISTING GRADES TO MAINTAIN EXISTING DRAINAGE CONDITIONS WHILE PROVIDING A REASONABLY SMOOTH PROFILE AND ALIGNMENT. IT IS ANTICIPATED THAT SOME MINOR GRADING MAY BE REQUIRED AS A RESULT OF THIS AND THUS, THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 203 - EXCAVATION 20 CY  
ITEM 203 - EMBANKMENT 20 CY

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES (BASED ON ESTIMATED CAD AREAS) ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659 - SOIL ANALYSIS TEST	2 EACH
ITEM 659 - TOPSOIL	183 CU. YD.
ITEM 659 - SEEDING AND MULCHING, CLASS 1	1,650 SQ. YD.
ITEM 659 - REPAIR SEEDING AND MULCHING	83 SQ. YD.
ITEM 659 - INTER-SEEDING	83 SQ. YD.
ITEM 659 - COMMERCIAL FERTILIZER	0.2 TON
ITEM 659 - LIME	0.3 ACRES
ITEM 659 - WATER	9.0 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. PAYMENT SHALL BE FOR ACTUAL FIELD MEASURED INSTALLED QUANTITIES.

EROSION CONTROL

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE PER ODOT SS832 AND PER THE DIRECTION OF THE ENGINEER. ALTHOUGH AN EPA NOT AND SWPPP ARE NOT REQUIRED SINCE LESS THAN ONE ACRE OF EARTH DISTURBED AREA HAS BEEN CALCULATED, APPROPRIATE EROSION AND SEDIMENT CONTROL ITEMS SHALL BE REQUIRED THROUGH THE DURATION OF THE PROJECT. SAID ITEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO: CONCRETE WASHOUT FACILITIES, INLET PROTECTIONS, AND PERIMETER CONTROLS. COMPENSATION SHALL BE PER ODOT SS832, APPENDIX F. THE CONTRACTOR SHALL RESTORE AND PERMANENTLY STABILIZE AREAS AS WORK IS COMPLETED IN LIEU OF WAITING UNTIL THE END TO PERMANENTLY STABILIZE THE PROJECT IN ITS ENTIRETY.

ITEM 832 - EROSION CONTROL 15,000 EACH

POST-CONSTRUCTION STORMWATER TREATMENT

POST-CONSTRUCTION STORMWATER TREATMENT IS NOT REQUIRED FOR THIS PROJECT AS LESS THAN ONE ACRE OF EARTH DISTURBED AREA HAS BEEN CALCULATED.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES OR BACKUP ALARMS BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

PROJECT SCHEDULING

THE PROJECT SHALL NOT COMMENCE UNTIL PERKINS LOCAL SCHOOL DISTRICT STUDENT'S ARE COMPLETED WITH SCHOOL FOR THE YEAR (2021-2022 SCHOOL YEAR). MINOR WORK, SUCH AS CONSTRUCTION LAYOUT, STAGING, ETC., MAY BE PERMITTED AHEAD OF THIS DATE WITH THE WRITTEN APPROVAL OF THE PERKINS TOWNSHIP DIRECTOR OF PUBLIC WORKS (SEE PLAN PAGE 4 FOR CONTACT INFORMATION) AS LONG AS THERE IS NO DISRUPTION TO THE TRAVELING PUBLIC. THE PROJECT SHALL BE SUBSTANTIALLY COMPLETED BY THE TIME THAT THE FOLLOWING SCHOOL YEAR (2022-2023 SCHOOL YEAR) BEGINS. THE CONTRACTOR SHALL CONTACT THE PERKINS LOCAL SCHOOL DISTRICT AT THE BELOW CONTACT INFORMATION TO CONFIRM THE SCHOOL YEAR DATES.

ADMINISTRATIVE SERVICE CENTER  
3714 S. CAMPBELL STREET  
SANDUSKY, OHIO 44870  
PHONE: 419-625-0484

SIDEWALK ALIGNMENT (UTILITY POLES AND GUY ANCHORS)

IT IS THE INTENT TO INSTALL THE SIDEWALK AS SHOWN IN THE TYPICAL SECTIONS AND PLAN AND PROFILE SHEETS WITH A STRAIGHT ALIGNMENT WHEN FEASIBLE. A 1' LATERAL CLEARANCE IS PREFERRED FROM ANY OBSTRUCTION, INCLUDING UTILITY POLES AND GUY ANCHORS. THE CONTRACTOR MAY ADJUST THE PLAN ALIGNMENT SLIGHTLY WHILE STAYING WITHIN THE R/W, AT THE APPROVAL OF THE ENGINEER, TO MAINTAIN A 1' HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION, EVEN IF OTHERWISE SHOWN IN THE PLANS.

CAD FILE

THE AUTOCAD FILE SHALL BE PROVIDED TO THE CONTRACTOR FOR USE WITH LAYING THE SIDEWALK'S HORIZONTAL ALIGNMENT.

COMPACTION

COMPACTION REQUIREMENTS FOR MATERIALS SHALL BE PER APPLICABLE ODOT ITEM NUMBERS (DESIGNATED WITHIN THESE PLANS).

SAWCUTS

ALL REQUIRED SAWCUTS ON THE PROJECT SHALL BE FULL DEPTH SO THAT THE REMOVAL RESULTS IN A CLEAN, FLUSH JOINT AT THE SURFACE(S) OF THE REMAINING MATERIAL. COSTS SHALL BE INCIDENTAL TO PROPOSED WORK ITEMS (NO SEPARATE PAYMENTS SHALL BE MADE).

EMBANKMENT

PROJECT EMBANKMENT AND ASSOCIATED COMPACTION SHALL BE PER ODOT ITEM 203.

EXCESS EXCAVATION MATERIAL

ALL EXCESS EXCAVATION SURPLUS MATERIAL, REMOVED PAVEMENT, AND RUBBISH SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR PER ITEMS 203, 105.16, AND 105.17. PROJECT EXCAVATION SHALL BE PER ODOT ITEM 203.

ITEM 203 - EXCAVATION

EXCAVATION OF EXISTING ASPHALT PAVEMENT HAS BEEN QUANTIFIED AS ITEM 203 - EXCAVATION AND SHALL BE COMPENSATED PER CUBIC YARD REMOVED UNDER THIS ITEM.

ASPHALT JOINTS

ALL JOINTS IN WHICH NEW ASPHALT IS PLACED ADJACENT TO CURB AND/OR EXISTING ASPHALT SHALL BE SEALED WITH A HOT APPLIED ASPHALT JOINT SEALER.

ITEM 608 - CURB RAMP, AS PER PLAN

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN  
CONTRACTOR SHALL TIE INTO ALL ADJOINING CONCRETE WALKS / STEPS AS SHOWN IN THE PLANS. ALSO, CURB RAMPS MAY NEED TO BE ALTERED FROM WHAT IS SHOWN IN THE PLANS IN ORDER TO MAINTAIN ADA COMPLIANCE AND FIT EXISTING CONDITIONS. WORK SHALL BE COMPENSATED AS A CHANGE ORDER UNDER THE APPROPRIATE BID ITEMS.

ITEM 608 - CURB RAMP, AS PER PLAN

4" ITEM 411 - STABILIZED CRUSHED AGGREGATE (OR ODOT ITEM 304 - AGGREGATE BASE) SHALL BE INCIDENTAL TO ITEM 608 - CURB RAMP, AS PER PLAN. MATERIAL SHALL BE LIMESTONE. EXCAVATION FOR THE 411 BASE AND CURB RAMP SHALL BE INCIDENTAL TO THIS ITEM. THE BACKFILL ABOVE THE 6" WIDE AGGREGATE BASE STEP ON EACH SIDE OF THE CURB RAMP HAS BEEN QUANTIFIED AS ITEM 659 - TOPSOIL (4") DEPTH.

ITEM 202 - REMOVAL MISC.: SPLIT RAIL FENCE REMOVED

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING SPLIT RAIL FENCE AT APPROXIMATE STATION 16+30 IN ITS ENTIRETY AND BACKFILL THE POST HOLES WITH TOPSOIL. THE LENGTH OF THE FENCE IS ESTIMATED TO BE 18 FEET. ALL WORK ASSOCIATED WITH DOING THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR THIS ITEM.

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GENERAL NOTES

D03 SRTS PERKINS

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AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT (HINDE AIRPORT LOCATED IN HURON AND THE HELIPORTS AT FIRELANDS REGIONAL MEDICAL CENTER - MAIN CAMPUS AND SOUTH CAMPUS IN SANDUSKY). NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 60 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

EXPRESS PROCESSING CENTER  
THE FEDERAL AVIATION ADMINISTRATION  
SOUTHWEST REGIONAL OFFICE  
AIR TRAFFIC AIRSPACE BRANCH ASW-520  
2601 MEACHAM BLVD.  
FORT WORTH, TX 76137-4298

OHIO DEPARTMENT OF TRANSPORTATION  
OFFICE OF AVIATION  
2829 WEST DUBLIN-GRANVILLE ROAD  
COLUMBUS, OHIO 43235-2786  
614-387-2358

ITEM 638 - WATER WORKS NOTES

THE PLANS SPECIFY VARIOUS WATER MANHOLES, VALVES, AND WATER METER PITS AS BEING ADJUSTED TO GRADE. WHILE ALL OF THESE ITEMS HAVE BEEN QUANTIFIED IN THE PLANS, ONLY THE ITEMS THAT REQUIRE ADJUSTMENT TO MATCH FINAL GRADES SHALL BE PERFORMED.

THE CONTRACTOR PERFORMING ITEM 638 WORK SHALL BE REGISTERED WITH ERIE COUNTY. INFORMATION CAN BE FOUND AT:

[www.eriecounty.oh.gov/ContractorRegistration.aspx](http://www.eriecounty.oh.gov/ContractorRegistration.aspx)

FOR COORDINATION PURPOSES, THE CONTRACTOR SHALL CONTACT BILL FLECK WITH ERIE COUNTY ENVIRONMENTAL SERVICES (CONTACT INFO CAN BE FOUND ON PLAN PAGE 4) AT LEAST ONE WEEK PRIOR TO ANY ITEM 638 WORK BEING COMPLETED BY THE PROJECT.

WATER MANHOLES SHALL BE ADJUSTED TO GRADE PER ITEM 611.

THE FOLLOWING IS A SUMMARY OF WATER WORKS ITEMS THAT ARE DESIGNATED WITHIN THE PLANS (SHEETS 11-19) AND THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

- ITEM 638 - FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE 1 EACH
- ITEM 638 - VALVE BOX ADJUSTED TO GRADE 1 EACH
- ITEM 638 - WATER WORK, MISC.: WATER METER PIT ADJUSTED TO GRADE 5 EACH
- ITEM 638 - WATER WORK, MISC.: WATER MANHOLE ADJUSTED TO GRADE 1 EACH

ITEM 630 - TRAFFIC SIGNS AND SUPPORTS

THE PLANS SPECIFY VARIOUS TRAFFIC SIGNS AND POSTS AS BEING RELOCATED. RELOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER TO A LOCATION THAT ELIMINATES CONFLICT AND PER ODOT SCD TC-42.20.

THE FOLLOWING IS A SUMMARY OF TRAFFIC SIGN ITEMS THAT ARE DESIGNATED WITHIN THE PLANS (SHEETS 11-19) AND THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

- ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION 9 EACH
- ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION 6 EACH

THE FOLLOWING QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR EXISTING SIGN POSTS THAT ARE NOT LONG ENOUGH TO BE REERECTED TO THE PROPER SIGN ELEVATION OR IF THE EXISTING POST IS DEEMED TO BE IN A CONDITION THAT DOES NOT ALLOW FOR REERECTION. FOR SAID LOCATIONS, ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION SHALL BE NON-PERFORMED AND THESE ITEMS SHALL BE USED INSTEAD.

- ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL 4 EACH

- ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST 50 FT

ITEM 630 - SIGNING, MISC.: REMOVAL OF PRIVATE SIGN AND REERECTION

THE EXISTING PRIVATE SIGN "VACATIONLAND FEDERAL CREDIT UNION - ENTER" AT STATION 524+46 (E. PERKINS AVE) SHALL BE RELOCATED BY THE CONTRACTOR AS SHOWN ON SHEET 17. THIS ITEM SHALL INCLUDE ALL WORK ASSOCIATED WITH REMOVING THE EXISTING SIGN AND REERECTION IT AT THE PROPOSED LOCATION SHOWN IN THE PLANS.

- ITEM 630 - SIGNING, MISC.: REMOVAL OF PRIVATE SIGN AND REERECTION 1 EACH

PAVEMENT MARKINGS

ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 641 AND SHALL BE ITEM 642 TRAFFIC PAINT OR ITEM 644 THERMOPLASTIC AS SPECIFIED IN THESE PLANS.

THE CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS AND THE COST OF REMOVALS SHALL BE INCLUDED IN THE PRICES FOR THE ASSOCIATED PROPOSED ITEM 642 OR ITEM 644 BID ITEMS.

CROSSWALK MARKINGS SHALL BE "HIGH VISIBILITY" PER SCD TC-74.10.

THE FOLLOWING IS A SUMMARY OF PAVEMENT MARKING ITEMS THAT ARE DESIGNATED WITHIN THE PLANS (SHEETS 11-19) AND THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

- A QUANTITY OF ITEM 642 - EDGE LINE HAS BEEN PROVIDED SEPARATELY ON SHEET 16 AND A QUANTITY OF ITEM 644 - STOP LINE HAS BEEN PROVIDED SEPARATELY ON SHEET 17 (FOR USE AS DIRECTED BY THE ENGINEER).
- ITEM 644 - STOP LINE 120 FT
- ITEM 644 - CROSSWALK LINE, 24" 342 FT
- ITEM 644 - LANE ARROW 5 EACH

SHEET NO.	ROAD	STATION TO STATION (AT SIDEWALK CENTERLINE)		SIDE	608	
					4" CONCRETE WALK, AS PER PLAN (CADD MEASURED AREA) SF	2" ASPHALT CONCRETE WALK, AS PER PLAN (CADD MEASURED AREA) SF
11	STRUB	0+46.2	0+65.0	LT	95	
11	STRUB	1+34.8	3+60.3	LT	1128	
11/12	STRUB	4+03.2	7+30.4	LT	1638	
12	STRUB	7+85.7	10+22.5	LT	1184	
12	STRUB	10+35.4	10+51.4	LT	80	
12	STRUB	10+69.9	11+97.4	LT	638	
13	STRUB	12+12.1	12+83.8	LT	359	
13	STRUB	13+03.6	13+40.4	LT	184	
13	STRUB	13+57.3	16+03.2	LT	1198	
13	STRUB	16+16.1	16+87.8	LT	344	
14	STRUB	17+14.6	18+38.0	LT	618	
14	STRUB	18+89.1	19+70.7	LT	404	
15	PERKINS	508+61.2	511+80.5	RT	1588	
15/16	PERKINS	512+17.3	513+00.4	RT	416	
16	PERKINS	513+23.5	513+63.3	RT	201	
	PERKINS	SEE STRUCTURE PLANS		RT		
16	PERKINS	513+98.2	515+38.8	RT	708	
16	PERKINS	515+67.5	517+72.2	RT	1025	
16/17	PERKINS	517+91.5	519+62.8	RT	1003	
17	PERKINS	519+81.6	520+00.6	RT	95	
17	PERKINS	520+14.3	521+00.3	RT	430	
17	PERKINS	521+10.3	521+71.7	RT	307	
17	PERKINS	521+88.9	524+11.1	RT	1111	
17	PERKINS	524+13.6	524+61.9	LT		286
18	PERKINS	525+20.3	527+60.3	LT		1200
18/19	PERKINS	527+90.7	532+69.9	LT		2398
19	PERKINS	532+86.5	533+06.1	LT	100	
19	PERKINS	533+26.2	534+20.4	LT	471	
19	PERKINS	534+40.0	536+19.2	LT	982	
19	PERKINS	536+64.3	536+78.5	LT	179	
TOTALS CARRIED TO GENERAL SUMMARY					16,486	3,884

GENERAL NOTES & SIDEWALK SUBSUMMARY

D03 SRTS PERKINS

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MAINTENANCE OF TRAFFIC (MOT) GENERAL NOTE  
ALL WORK ZONES SHALL BE MAINTAINED IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION'S STANDARD CONSTRUCTION DRAWINGS, ITEM 614 IN C&MS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION), AND THESE PLANS.

IT IS THE INTENT TO MINIMIZE THE IMPACT AND DISRUPTIONS TO THE TRAVELING PUBLIC AND RESIDENTS IN THE AREA. THE LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE KEPT TO A MINIMUM TO CONSTRUCT THE PROJECT AND SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. LANE CLOSURES AND RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE ALLOWED. THE LEVEL OF UTILIZATION OF MOT DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL MAINTAIN, AT A MINIMUM, ONE LANE OF TWO-WAY TRAFFIC AT ALL TIMES (WITH FLAGGERS). THE CONTRACTOR SHALL NOTIFY THE PERKINS TOWNSHIP DIRECTOR OF PUBLIC WORKS AND THE ERIE COUNTY ENGINEER'S OFFICE (CONTACT INFORMATION FOR BOTH PROVIDED ON SHEET 4) AT LEAST 14 CALENDAR DAYS IN ADVANCE OF DAILY LANE CLOSURES BEGINNING ON EITHER PROJECT ROAD. E. STRUB ROAD IS MAINTAINED BY PERKINS TOWNSHIP AND E. PERKINS AVENUE IS MAINTAINED BY ERIE COUNTY. NOTIFICATION SHALL BE MADE TO BOTH ENTITIES FOR LANE CLOSURES ON BOTH ROADS. LANE CLOSURES SHALL NOT OCCUR WITHOUT APPROPRIATE NOTIFICATION AND APPROVAL.

THERE SHALL BE NO LANE CLOSURES / RESTRICTIONS OVERNIGHT. AT THE END OF EACH WORK DAY, THE CONTRACTOR MUST ENSURE THAT THE ROADWAY IS CLEAR OF ANY CONFLICTING SIGNAGE. DAILY LANE CLOSURES SHALL BE PER ODOT SCD MT-97.10. LANE WIDTHS SHALL NOT BE LESS THAN 10' IN WIDTH.

ALL RECENTLY POURED SIDEWALKS SHALL BE ADEQUATELY MARKED WITH SECURED CAUTION TAPE (ON GRABBER CONES, LATHE, ETC.) UNTIL THEY HAVE CURED TO PREVENT PEDESTRIANS FROM WALKING ON THEM.

INSTALL AND MAINTAIN ADVANCED WARNING SIGNS (ROAD WORK AHEAD AND END ROAD WORK) PRIOR TO WORK BEGINNING ON BOTH PROJECT ROADS.

ALL COSTS, INCLUDING SIGNING, DRUMS, ETC. SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC. NO SEPARATE PAYMENTS ARE INTENDED FOR ANY WORK RELATED TO MAINTAINING VEHICULAR OR PEDESTRIAN TRAFFIC.

TRENCH FOR CURB ON E. PERKINS AVE.  
THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS (OR CONES AS ALLOWED BY SCD MT-97.10) AT ALL TIMES. PLACEMENT OF PROPOSED CURB SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

PAVEMENT PLANING AND SURFACE COURSE ON E. PERKINS AVE.  
ERECT SIGNS PER SCD MT-101.90, CONDITION 1.

MAINTENANCE OF TRAFFIC (DRIVEWAY ACCESS)  
IN ORDER TO MINIMIZE CONFLICTS, THE CONTRACTOR SHALL CONTACT EACH PROPERTY OWNER OR TENANT THAT WILL BE AFFECTED BY THE PROPOSED SIDEWALK WORK WITHIN DRIVEWAY LIMITS. A WRITTEN NOTICE SHALL BE GIVEN TO EACH PROPERTY WITH A PHONE NUMBER FOR AN ONSITE REPRESENTATIVE OF THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO ANY DRIVEWAY CLOSURE. THE NOTICE SHALL STATE A TIME FRAME OF EXPECTED CLOSURE AND SUGGESTED LOCATIONS FOR RESIDENTS TO PARK WHICH WILL BE COORDINATED WITH THE ENGINEER. THE CONTRACTOR SHOULD MAKE THEIR BEST EFFORT TO ACCOMMODATE RESIDENTS OR OWNERS WHO REQUIRE ANY SPECIAL NEEDS.

FOR LOCATIONS THAT HAVE MULTIPLE DRIVEWAYS THAT ARE SHARED BETWEEN PROPERTIES OR FOR PROPERTIES THAT HAVE MULTIPLE DRIVEWAYS BEING IMPACTED BY THE PROJECT, THE CONTRACTOR SHALL PHASE OPERATIONS SO THAT ONLY ONE DRIVEWAY IS IMPACTED AT A TIME. FOR COMMERCIAL PROPERTIES IN WHICH ONLY ONE DRIVEWAY EXISTS, THE CONTRACTOR SHALL PHASE CONSTRUCTION BY UTILIZING PARTIAL WIDTH CONSTRUCTION AND/OR STEEL PLATES SO THAT BUSINESSES MAY REMAIN OPEN WITH ACCESS TO VEHICULAR TRAFFIC (UNLESS OTHERWISE AGREED UPON IN WRITING WITH THE TENANT AND/OR PROPERTY OWNER).

DRIVEWAYS ARE ONLY TO BE CLOSED DURING THE INSTALLATION AND CURING TIMES FOR CONCRETE ITEMS. AT ALL OTHER TIMES (EXCAVATION, ETC.) DRIVEWAYS SHALL BE MAINTAINED WITH THE USE OF PLATES AND/OR GRANULAR MATERIAL, UNLESS THE WORK IS PERFORMED ON THE SAME DAY OF THE CONCRETE POUR (TEMPORARY ACCESS AND STEEL PLATE COSTS ARE TO BE INCLUDED IN THE BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC). FOR ASPHALT DRIVEWAYS, THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE PROPERTY OWNER OR TENANT TO ENSURE THAT TRAFFIC DOES NOT TRAVEL ON THE ASPHALT UNTIL ADEQUATE COMPACTION AND COOLING HAS OCCURRED.

DRIVEWAYS (CLASS QC MS) MAY BE OPENED TO TRAFFIC WHEN A BEAM BREAK OF 600 PSI IS OBTAINED.

CALCULATED  
MDH  
CHECKED  
TAB

MAINTENANCE OF TRAFFIC NOTES

D03 SRTS PERKINS

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SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
5	6	10	11	12	13	16	17	19	36	37	38	39	01/MPO/O T	EXT	TOTAL					
<b>ROADWAY</b>																				
													LS	201	11000	LS	CLEARING AND GRUBBING	5		
		122											122	202	23000	122	SY	PAVEMENT REMOVED		
		42											42	202	32000	42	FT	CURB REMOVED		
											24	15	39	202	32500	39	FT	CURB AND GUTTER REMOVED		
					1		1						2	202	58100	2	EACH	CATCH BASIN REMOVED		
LS													LS	202	98000	LS	REMOVAL MISC.: SPLIT RAIL FENCE REMOVED	5		
20		154											226	203	10000	226	CY	EXCAVATION	5	
20													66	203	20000	66	CY	EMBANKMENT		
		793											793	204	10000	793	SY	SUBGRADE COMPACTION		
		16,486											16,486	608	10001	16,486	SF	4" CONCRETE WALK, AS PER PLAN	3 / 5	
		3,884											3,884	608	20001	3,884	SF	2" ASPHALT CONCRETE WALK, AS PER PLAN	3	
											111	174	110	395	608	52001	395	SF	CURB RAMP, AS PER PLAN	5
4													4	SPECIAL	69050350	4	EACH	MAILBOX REMOVED AND RESET	5	
<b>EROSION CONTROL</b>																				
2													2	659	00100	2	EACH	SOIL ANALYSIS TEST		
183													183	659	00300	183	CY	TOPSOIL		
1,650													1,650	659	00500	1,650	SY	SEEDING AND MULCHING, CLASS 1		
83													83	659	14000	83	SY	REPAIR SEEDING AND MULCHING		
83													83	659	15000	83	SY	INTER-SEEDING		
0.2													0.2	659	20000	0.2	TON	COMMERCIAL FERTILIZER		
0.3													0.3	659	31000	0.3	ACRE	LIME		
9													9	659	35000	9	MGAL	WATER		
15,000													15,000	832	30000	15,000	EACH	EROSION CONTROL		
<b>DRAINAGE</b>																				
							1						1	611	98450	1	EACH	CATCH BASIN, NO. 2-2A (ADA GRATE)		
													1	611	98480	1	EACH	CATCH BASIN, NO. 2-2B WITH BICYCLE SAFE GRATE		
				3	1								4	611	98630	4	EACH	CATCH BASIN ADJUSTED TO GRADE		
								1					1	611	98700	1	EACH	INLET, SIDE DITCH		
					10								10	611	00100	10	FT	4" CONDUIT, TYPE B		
					10								10	611	00900	10	FT	6" CONDUIT, TYPE B		
					40								54	611	01800	54	FT	8" CONDUIT, TYPE B		
							10	14					10	611	03100	10	FT	10" CONDUIT, TYPE B		
<b>PAVEMENT</b>																				
						66							66	254	01000	66	SY	PAVEMENT PLANING, ASPHALT CONCRETE (VAR. 0"-1.5")		
		40											40	304	20000	40	CY	AGGREGATE BASE (LIMESTONE)		
		11											15	407	10000	15	GAL	TACK COAT		
							3						3	441	50000	3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		
		6											6	441	50400	6	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)		
		9											9	441	50600	9	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS)		
		177											177	452	10050	177	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS		
		406											406	452	12050	406	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS		
		12	10					90					112	609	26000	112	FT	CURB, TYPE 6		
						200							200	609	26001	200	FT	CURB, TYPE 6, AS PER PLAN	3	
<b>WATER WORK</b>																				
	1												1	638	10300	1	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE		
	1												1	638	10800	1	EACH	VALVE BOX ADJUSTED TO GRADE		
	5												5	638	98000	5	EACH	WATER WORK, MISC.: WATER METER PIT ADJUSTED TO GRADE	6	
	1												1	638	98000	1	EACH	WATER WORK, MISC.: WATER MANHOLE ADJUSTED TO GRADE	6	

GENERAL SUMMARY

D03 SRTS PERKINS



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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
6	16	17	45	47	48						01/MPO/O T	EXT	TOTAL				
<b>TRAFFIC CONTROL</b>																	
50											50	630	02100	50	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
9											9	630	85100	9	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
4											4	630	86002	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
6											6	630	86010	6	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION	
1											1	630	97700	1	EACH	SIGNING, MISC.: REMOVAL OF PRIVATE SIGN AND REERECTION	
	0.04										0.04	642	00100	0.04	MILE	EDGE LINE, 4", TYPE 1	
120		27									147	644	00500	147	FT	STOP LINE	
342											342	644	00630	342	FT	CROSSWALK LINE, 24"	
5											5	644	01300	5	EACH	LANE ARROW	
<b>TRAFFIC SIGNALS</b>																	
			4	89							93	625	25400	93	FT	CONDUIT, 2", 725.04	
			59	180							239	625	25902	239	FT	CONDUIT, JACKED OR DRILLED, 725.04, SIZE: 3"	
			4	89							93	625	29000	93	FT	TRENCH	
			1	4							5	625	30700	5	EACH	PULL BOX, 725.08, 18"	
			1	4							5	625	32000	5	EACH	GROUND ROD	
			4	89							93	625	36010	93	FT	UNDERGROUND WARNING/MARKING TAPE	
			2	4							6	632	20731	6	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	
			2	4							6	632	26001	6	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
			310	795							1,105	632	40500	1,105	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
			1	4							5	632	64020	5	EACH	PEDESTAL FOUNDATION	
			300	775							1,075	632	65200	1,075	FT	LOOP DETECTOR LEAD-IN CABLE	
			1	4							5	632	89900	5	EACH	PEDESTAL, 8", TRANSFORMER BASE	
				2							2	632	90400	2	EACH	SIGNALIZATION, MISC.: RE-ESTABLISH VIDEO DETECTION ZONES	
			1	1							2	633	99000	2	EACH	CONTROLLER ITEM, MISC.: MODIFY EXISTING CONTROLLER	
<b>STRUCTURE 20 FOOT SPAN AND UNDER</b>																	
					LS						LS	202	11200	LS		PORTIONS OF STRUCTURE REMOVED	
					LS						LS	503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN	
					1,512						1,512	509	10000	1,512	LB	EPOXY COATED REINFORCING STEEL	
					18						18	510	10000	18	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
					4						4	511	33412	4	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
					7						7	511	46210	7	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING	
					10						10	512	10051	10	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN	
					15						15	512	10101	15	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	
					6						6	512	33000	6	SY	TYPE 2 WATERPROOFING	
					3						3	512	33010	3	SY	TYPE 3 WATERPROOFING	
					11						11	516	13600	11	SF	1" PREFORMED EXPANSION JOINT FILLER	
					42						42	517	70001	42	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	
					LS						LS	518	21231	LS		POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	
					34						34	SPECIAL	51822300	34	FT	STEEL DRIP STRIP	
					23						23	518	40000	23	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
					111						111	608	13001	111	SF	6" CONCRETE WALK, AS PER PLAN	
<b>INCIDENTALS</b>																	
											LS	103	06000	LS		PREMIUM FOR CONTRACT PERFORMANCE BOND, PAYMENT BOND AND MAINTENANCE BOND	
											LS	614	11000	LS		MAINTAINING TRAFFIC	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

CALCULATED	MDH	CHECKED	TAB
<b>GENERAL SUMMARY</b>			
<b>D03 SRTS PERKINS</b>			
9			
79			

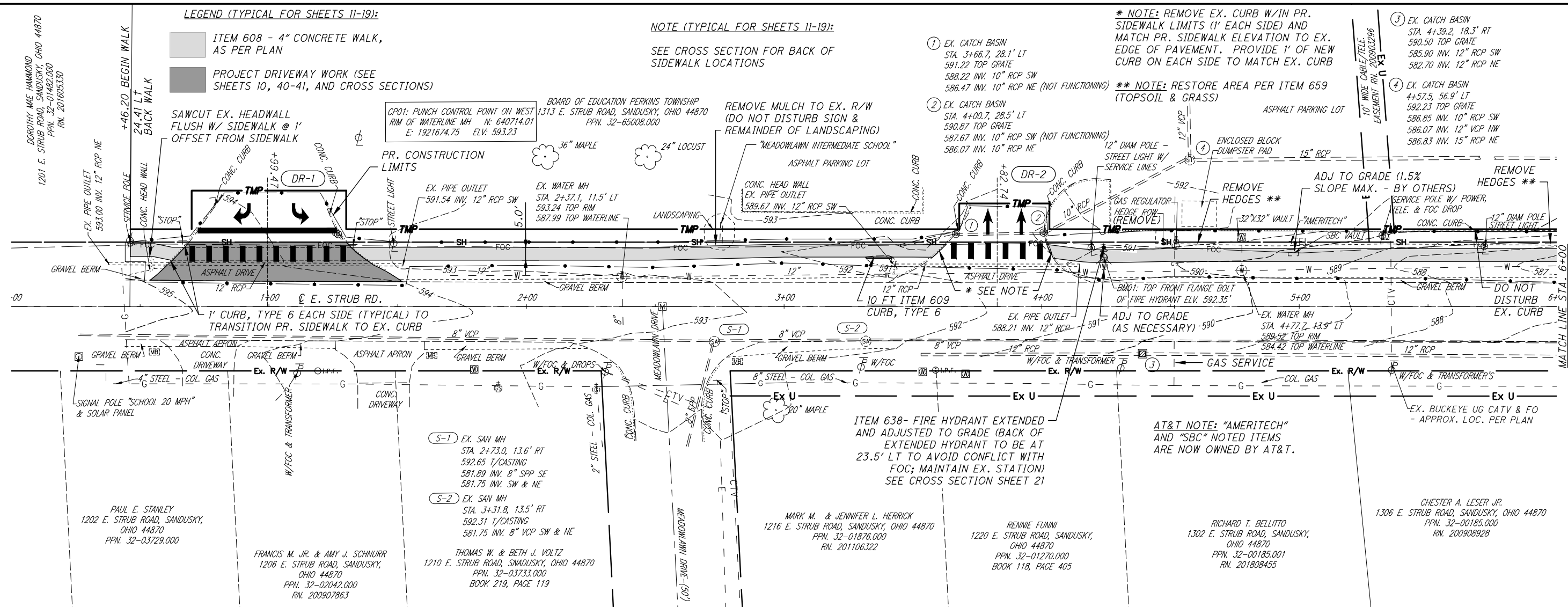
SHEET NO.	REFERENCE NO.	ROAD	STATION	SIDE	DRIVE TYPE	EX. APRON TYPE	PR. APRON TYPE	APRON LENGTH "L1" - FT	DRIVEWAY LENGTH "L2" - FT	WIDTH "W1" - FT	WIDTH "W2" - FT	DRIVE AREA (SF - CAD MEASURED)	202	202	203	204	304	407	441	441	452	452	609							
													PAVEMENT REMOVED SY	CURB REMOVED FT	EXCAVATION CY	SUBGRADE COMPACTION SY	8" - AGGREGATE BASE (LIMESTONE)	TACK COAT (0.06 GAL/SY CALC.)	1.25" - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	1.75" - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS)	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	CURB, TYPE 6 TT							
11	DR-1	STRUB	0+99.47	LT	COM.	ASPH.	CONC.	8.2	15.2	97.9	64.5	1180		14	29.1	137.9							4							
11	DR-2	STRUB	3+82.74	LT	COM.	ASPH.	N/A	N/A	N/A	N/A	N/A	N/A		14									4							
12	DR-3	STRUB	7+57.99	LT	COM.	ASPH.	CONC.	11.2	19.3	105.3	49.1	1330		14	32.8	157.9							4							
12/13	DR-3A	STRUB	12+04.36	LT	RES.	ASPH.	CONC.	7.0	13.4	28.2	12.8	244			4.5	32.3					27.1									
13	DR-4	STRUB	16+08.78	LT	RES.	GRAV.	CONC.	5.8	12.8	23.9	10.7	194			3.6	26.1					21.6									
13/14	DR-5	STRUB	17+01.43	LT	RES.	CONC.	EX. CONC.	8.9	19.7	N/A	26.2	285	31.7			35.4					31.7									
14	DR-6	STRUB	18+63.30	LT	COM.	ASPH.	CONC.	6.7	14.7	57.0	50.0	773	2.8		18.5	90.6						85.9								
16	DR-7	PERKINS	515+56.29	RT	COM.	GRAV.	ASPH.	8.4	15.4	60.0	24.9	569			18.1	71.4	9.7	2.5	1.4	2.0		21.6								
16	DR-8	PERKINS	517+82.40	RT	RES.	ASPH.	CONC.	1.5	16.0	24.3	14.3	233			4.3	32.0					25.9									
17	DR-9	PERKINS	521+81.13	RT	RES.	GRAV.	ASPH.	9.6	16.5	29.0	16.2	342			10.2	44.2	5.8	1.5	0.9	1.2	13.0									
18	DR-10	PERKINS	527+75.62	LT	COM.	ASPH.	ASPH.	11.6	17.6	49.8	29.0	636			22.3	77.6	16.2	4.2	2.5	3.4										
19	DR-11	PERKINS	532+78.28	LT	RES.	ASPH./CONC.	ASPH.	7.7 (TO FRONT CONC.)	16.2 (TO BACK CONC.)	21.7	17.4 (@ BACK CONC.)	272	24.8		3.2	36.2	3.4	0.9	0.5	0.7	15.8									
19	DR-12	PERKINS	533+16.06	LT	RES.	ASPH./CONC.	ASPH.	4.8	9.8	24.3	20.1	202	15.6		2.9	25.9	2.6	0.7	0.4	0.6	11.2									
19	DR-13	PERKINS	534+29.99	LT	RES.	ASPH./CONC.	ASPH.	4.6	9.6	24.6	18.9	200	7.0		4.2	25.7	2.6	0.7	0.4	0.6	10.9									
QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER FOR FIELD JOINT ADJUSTMENTS													40.0																	
ASPHALT PAVEMENT REMOVAL HAS BEEN QUANTIFIED AND SHALL BE PAID AS ITEM 203 - EXCAVATION; CONCRETE PAVEMENT REMOVAL HAS BEEN QUANTIFIED AND SHALL BE PAID AS ITEM 202 - PAVEMENT REMOVED.																														
SUBTOTALS													122	42	153.8	793.2	40.4	10.5	6.1	8.5	177.1	406.3	12							
TOTALS CARRIED TO GENERAL SUMMARY													122	42	154	793	40	11	6	9	177	406	12							

**DRIVE TABLE SUBSUMMARY**

**D03 SRTS PERKINS**

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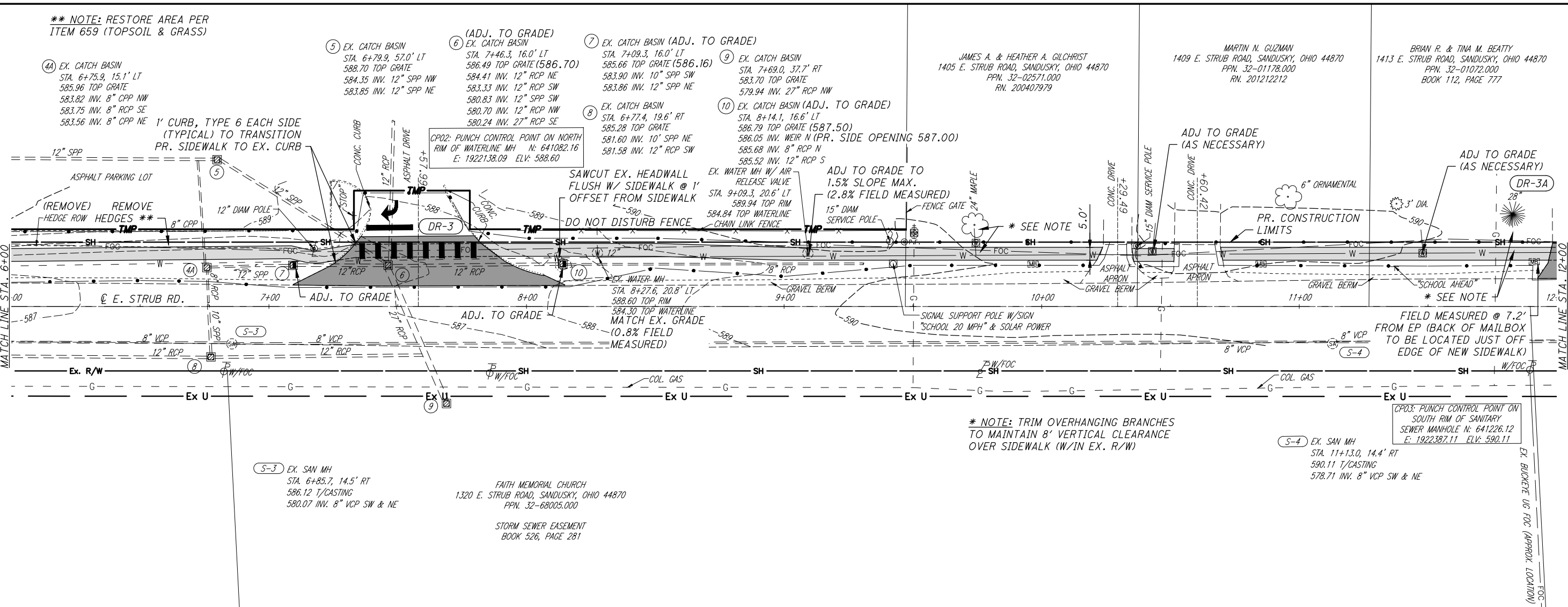
CALCULATED  
 MDH  
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 TAB



LT SIDE ONLY PR. P.G.'S @ BACK OF WALK	594.18	594.08	592.78	592.55	592.29	592.28	591.98	591.09	590.55	589.92	589.56	587.69
610												610
600					EX. WATER MH STA. 2+37.1, 11.5' LT 593.24 TOP RIM 587.99 TOP WATERLINE	CONC. HEAD WALL EX. PIPE OUTLET 589.67 INV. 12" RCP SW						
590	EX. PIPE OUTLET 593.00 INV. 12" RCP NE		EX. PIPE OUTLET 591.54 INV. 12" RCP SW									
580												
570												
560												
550												
EX. P.G.'S @ C/O OF WALK	594.03	594.14	592.77	592.49	592.24	592.07	591.99	591.09	590.46	589.70	588.02	587.03
600												600
590												590
580												580
570												570
560												560
550												550
EX. P.G.'S @ C/O OF WALK												

\*\* NOTE: RESTORE AREA PER ITEM 659 (TOPSOIL & GRASS)

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LT SIDE ONLY PR. P.G.'S @ BACK OF WALK 610	587.05	586.83	587.02	588.07	589.32	589.99	589.84	590.17	589.68	589.96	590.21	590.15
600	EX. CATCH BASIN (4A) STA. 6+75.9, 15.1' LT 585.96 TOP GRATE 583.82 INV. 8" CPP NW 583.75 INV. 8" RCP SE 583.56 INV. 8" CPP NE	EX. CATCH BASIN (5) STA. 6+79.9, 57.0' LT 588.70 TOP GRATE 584.35 INV. 12" SPP NW 583.85 INV. 12" SPP NE	EX. CATCH BASIN (7) STA. 7+09.3, 16.0' LT 585.66 TOP GRATE (PR. T/G 586.16) 583.90 INV. 10" SPP SW 583.86 INV. 12" SPP NE	EX. CATCH BASIN (10) STA. 8+14.1, 16.6' LT 586.79 TOP GRATE (PR. T/G 587.50) 586.05 INV. WEIR N (PR. SIDE OPENING 587.00) 585.68 INV. 8" RCP N 585.52 INV. 12" RCP S	EX. WATER MH W/ AIR (ADJ. TO GRADE) RELEASE VALVE STA. 9+09.3, 20.6' LT 589.54 TOP RIM 584.84 TOP WATERLINE	EX. WATER MH W/ AIR (ADJ. TO GRADE) RELEASE VALVE STA. 8+27.6, 20.8' LT 588.60 TOP RIM 584.30 TOP WATERLINE MATCH EX. GRADE (0.8% FIELD MEASURED)	EX. WATER MH W/ AIR (ADJ. TO GRADE) RELEASE VALVE STA. 9+09.3, 20.6' LT 589.54 TOP RIM 584.84 TOP WATERLINE	GAS SERVICE	GAS SERVICE	GAS SERVICE	GAS SERVICE	GAS SERVICE
590	12" SPP	12" SPP	12" RCP	12" RCP	12" RCP	8" RCP	FOC	FOC	FOC	FOC	FOC	FOC
580	12" SPP	12" SPP	12" RCP	12" RCP	12" RCP	8" RCP	FOC	FOC	FOC	FOC	FOC	FOC
570	EX. CATCH BASIN (5) STA. 6+79.9, 57.0' LT 588.70 TOP GRATE 584.35 INV. 12" SPP NW 583.85 INV. 12" SPP NE	EX. CATCH BASIN (6) STA. 7+46.3, 16.0' LT 586.49 TOP GRATE (PR. T/G 586.70) 584.41 INV. 12" RCP NE 583.33 INV. 12" RCP SW 580.83 INV. 12" SPP SW 580.70 INV. 12" RCP NW 580.24 INV. 27" RCP SE	EX. CATCH BASIN (7) STA. 7+09.3, 16.0' LT 585.66 TOP GRATE (PR. T/G 586.16) 583.90 INV. 10" SPP SW 583.86 INV. 12" SPP NE	EX. WATER MH STA. 8+27.6, 20.8' LT 588.60 TOP RIM 584.30 TOP WATERLINE MATCH EX. GRADE (0.8% FIELD MEASURED)	EX. WATER MH W/ AIR (ADJ. TO GRADE) RELEASE VALVE STA. 9+09.3, 20.6' LT 589.54 TOP RIM 584.84 TOP WATERLINE	EX. WATER MH W/ AIR (ADJ. TO GRADE) RELEASE VALVE STA. 9+09.3, 20.6' LT 589.54 TOP RIM 584.84 TOP WATERLINE	FOC	FOC	FOC	FOC	FOC	FOC
560	586.70	586.68	587.02	588.20	589.03	589.71	589.81	590.15	589.83	589.88	590.21	590.22
60	7+00	8+00	9+00	10+00	11+00	12+00						
EX. P.G.'S @ OF WALK												

PLAN AND PROFILE - E. STRUB ROAD  
 STA. 6+00 TO STA. 12+00  
 D03 SRTS PERKINS  
 2 / 9  
 12 / 79  
 HORIZONTAL SCALE IN FEET  
 CHECKED MDH  
 TAB  
 CALCULATED



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CHRISTOPHER ALTHERR  
1415 E. STRUB ROAD, SANDUSKY, OHIO  
PPN. 32-04311.000  
RN. 201505231

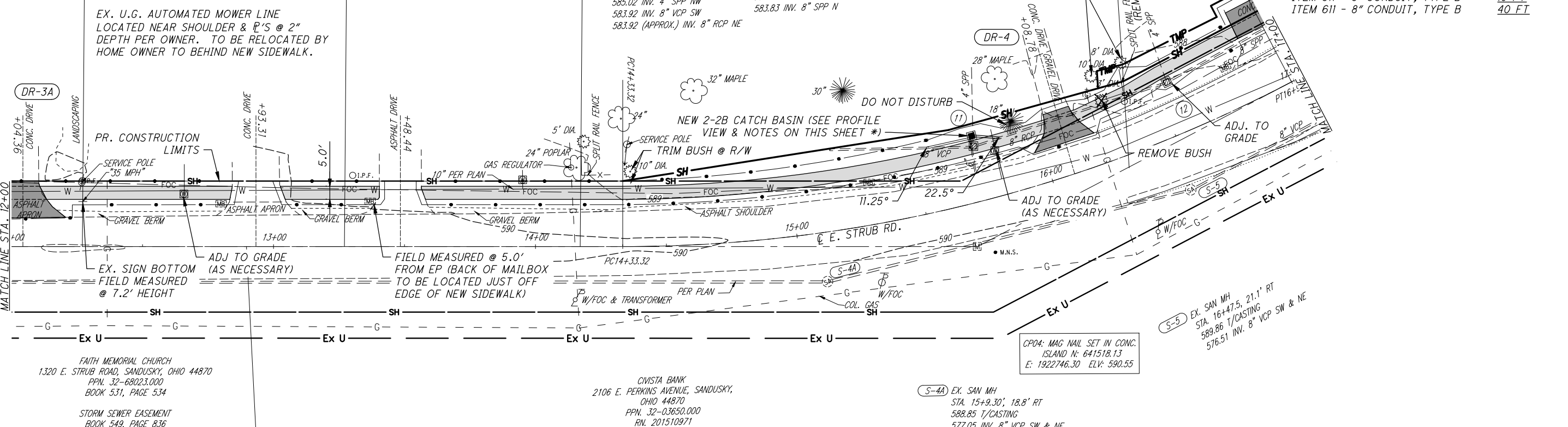
JEFFREY A. SENNISH  
1417 E. STRUB ROAD, SANDUSKY, OHIO 44870  
PPN. 32-04306.000  
RN. 201703503

JACOB A. JR. & DEBORAH W. MARSHALL  
1505 E. STRUB ROAD, SANDUSKY, OHIO 44870  
PPN. 32-04654.000  
BOOK 555, PAGE 364

- (11) EX. CATCH BASIN (REMOVE)  
STA. 15+74.0, 21.1' LT  
587.92 TOP GRATE  
585.02 INV. 6" VCP SE  
585.02 INV. 4" SPP NW  
583.92 INV. 8" VCP SW  
583.92 (APPROX.) INV. 8" RCP NE
- (12) EX. CATCH BASIN (ADJ. TO GRADE)  
STA. 16+54.9, 20.4' LT  
587.62 TOP GRATE (588.00)  
585.11 INV. 4" CPP W  
583.84 INV. 8" RCP S  
583.83 INV. 8" SPP N

**\* 2-2B CATCH BASIN NOTES:**  
ALL EXISTING PIPES SHALL BE RECONNECTED USING MANUFACTURED FITTINGS AND BENDS. THE COST OF SAID FITTINGS AND BENDS SHALL BE INCIDENTAL TO THE FOLLOWING ITEMS AND QUANTITIES THAT HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR RECONNECTING THE EXISTING PIPES TO THE NEW 2-2B CATCH BASIN, AS DIRECTED BY THE ENGINEER. ANTICIPATED BENDS ARE SHOWN IN THE PLANS.

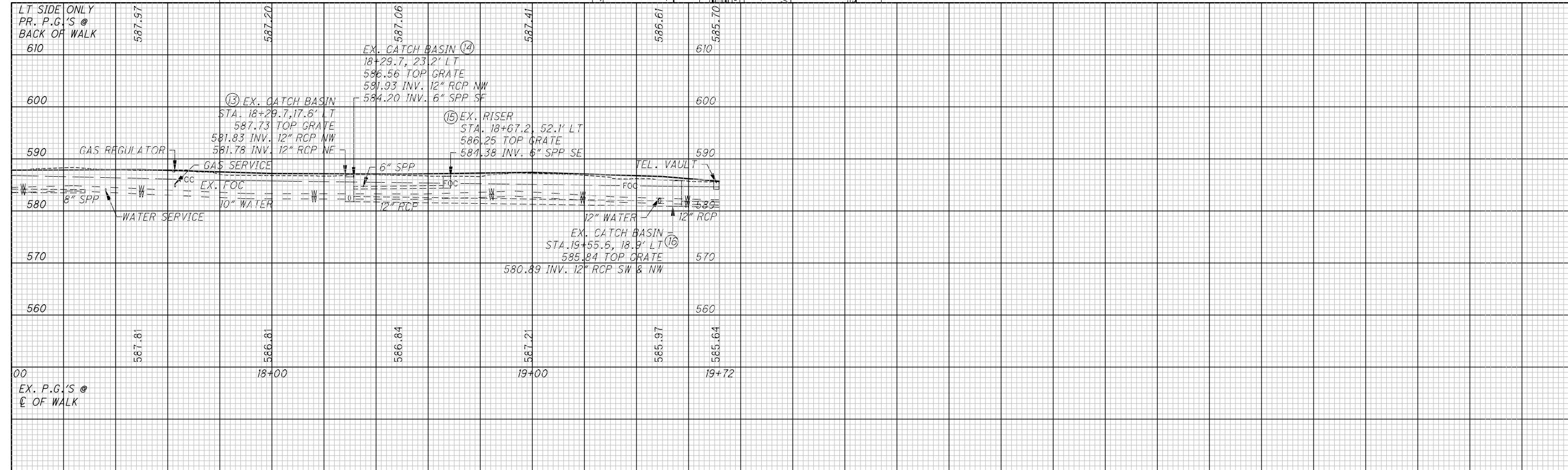
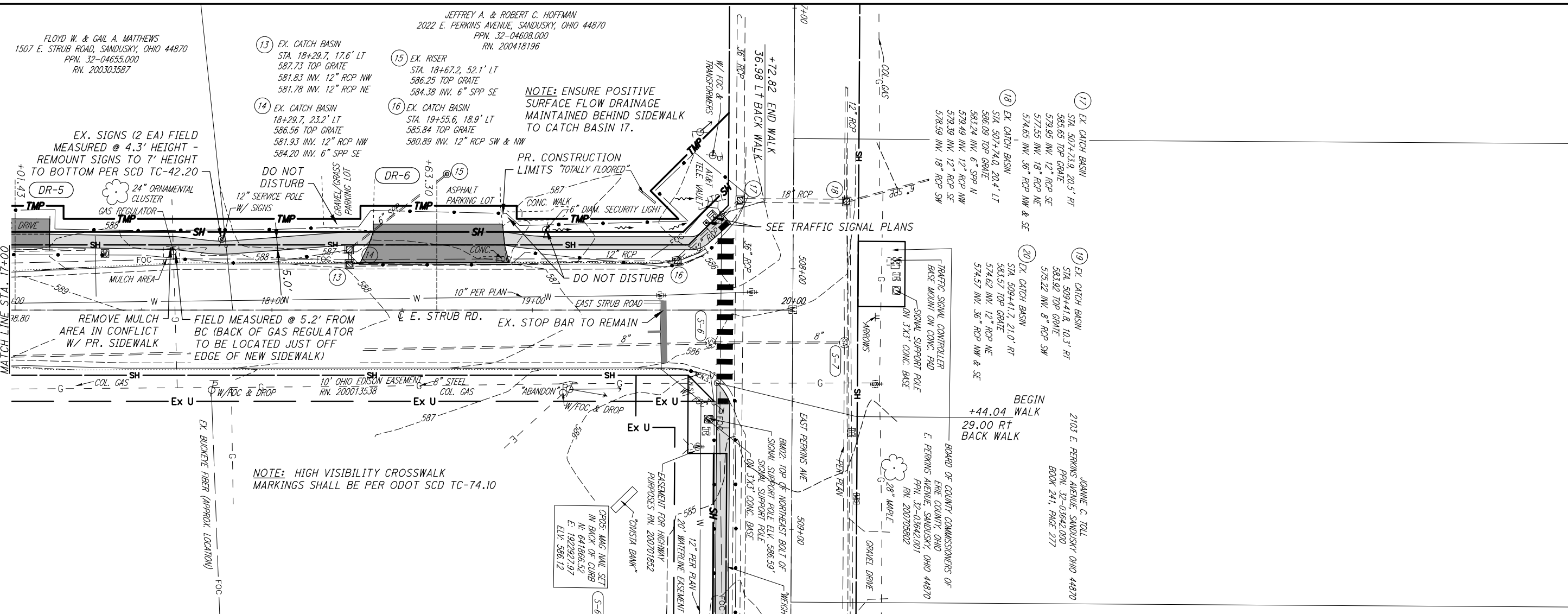
ITEM 611 - 4" CONDUIT, TYPE B 10 FT  
ITEM 611 - 6" CONDUIT, TYPE B 10 FT  
ITEM 611 - 8" CONDUIT, TYPE B 40 FT



LT SIDE ONLY PR. P.G.'S @ BACK OF WALK	590.23	590.13	589.71	589.56	588.64	588.73	588.55	588.55	588.20	587.67	610
600											600
590											590
580											580
570											570
560											560
EX. P.G.'S @ C. OF WALK	590.22	590.13	589.71	589.56	588.62	588.57	588.51	588.06	588.71	587.81	
		13+00		14+00		15+00		16+00		17+	

PLAN AND PROFILE - E. STRUB ROAD  
STA. 12+00 TO STA. 17+00

D03 SRTS PERKINS

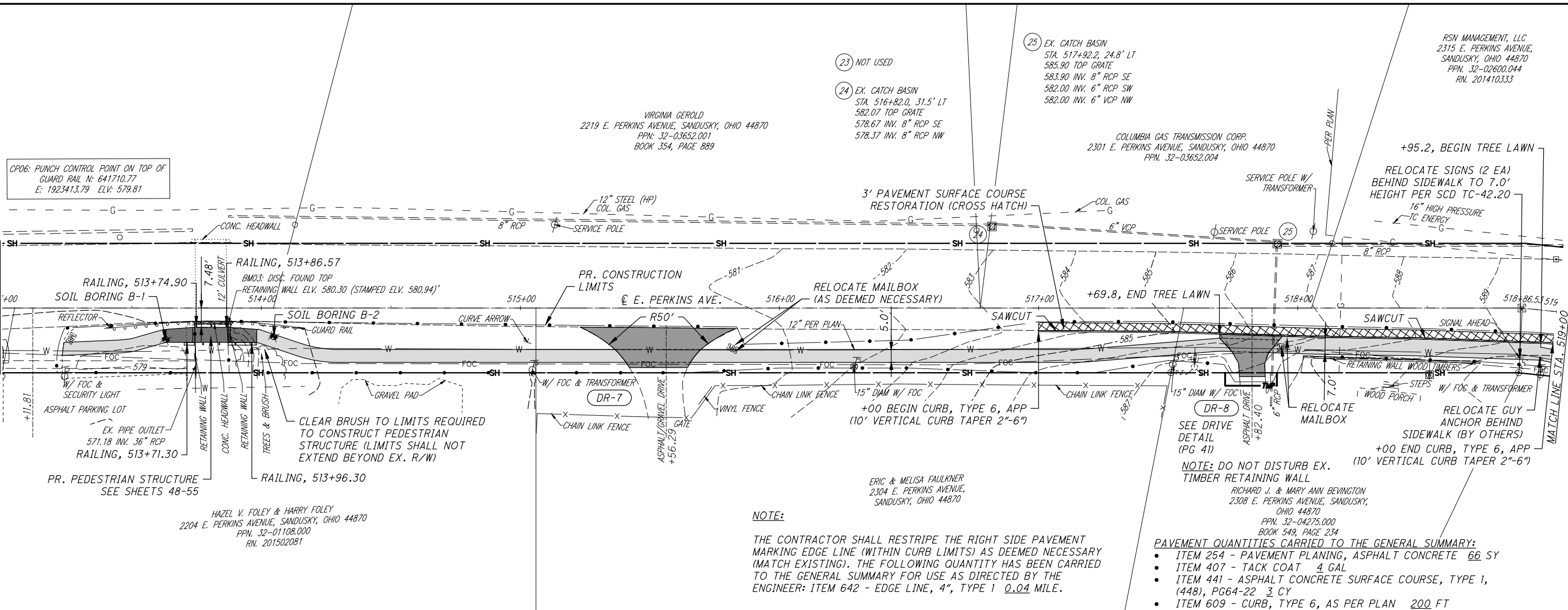


**PLAN AND PROFILE - E. STRUB ROAD  
 STA. 17+00 TO STA. 20+00**



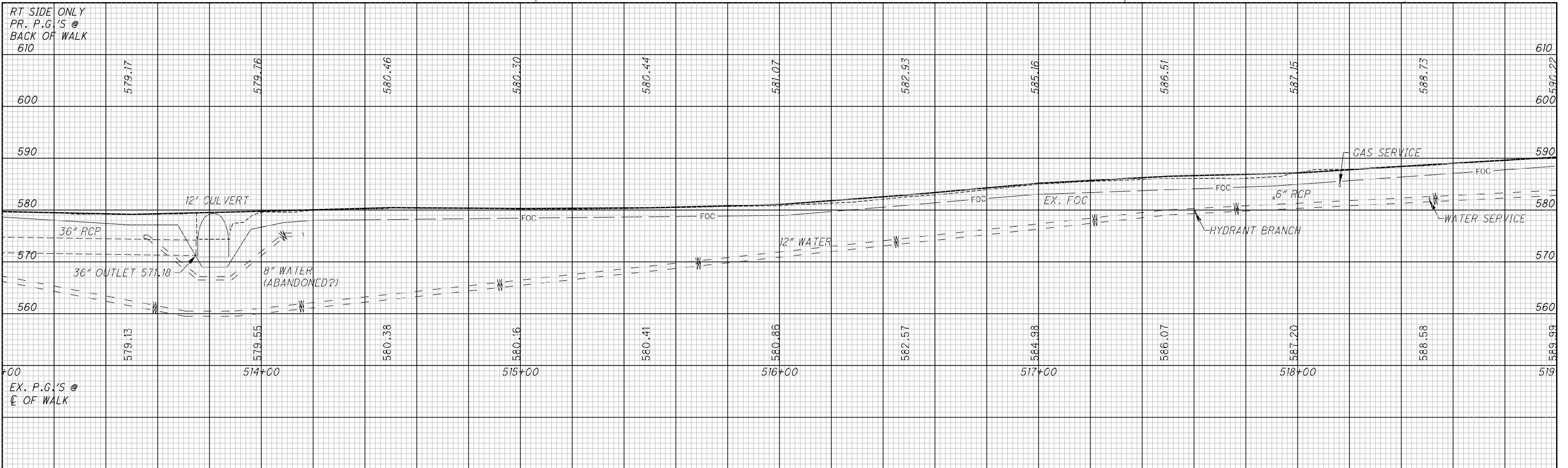
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CP06: PUNCH CONTROL POINT ON TOP OF GUARD RAIL N: 641710.77  
E: 1923413.79 ELV: 579.81



**NOTE:**  
THE CONTRACTOR SHALL RESTRIPE THE RIGHT SIDE PAVEMENT MARKING EDGE LINE (WITHIN CURB LIMITS) AS DEEMED NECESSARY (MATCH EXISTING). THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER: ITEM 642 - EDGE LINE, 4", TYPE 1 0.04 MILE.

- NOTE: DO NOT DISTURB EX. TIMBER RETAINING WALL**  
RICHARD J. & MARY ANN BEVINGTON  
2308 E. PERKINS AVENUE, SANDUSKY, OHIO 44870  
PPN. 32-04275.000  
BOOK 549, PAGE 234
- PAVEMENT QUANTITIES CARRIED TO THE GENERAL SUMMARY:**
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE 66 SY
  - ITEM 407 - TACK COAT 4 GAL
  - ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22 3 CY
  - ITEM 609 - CURB, TYPE 6, AS PER PLAN 200 FT



RSN MANAGEMENT, LLC  
2315 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02600.044  
RN. 201410333

COLUMBIA GAS TRANSMISSION CORP.  
2301 E. PERKINS AVENUE, SANDUSKY, OHIO 44870  
PPN. 32-03652.004

VIRGINIA GEROLD  
2219 E. PERKINS AVENUE, SANDUSKY, OHIO 44870  
PPN. 32-03652.001  
BOOK 354, PAGE 889

ERIC & MELISA FAULKNER  
2304 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870

HAZEL V. FOLEY & HARRY FOLEY  
2204 E. PERKINS AVENUE, SANDUSKY, OHIO 44870  
PPN. 32-01108.000  
RN. 201502081

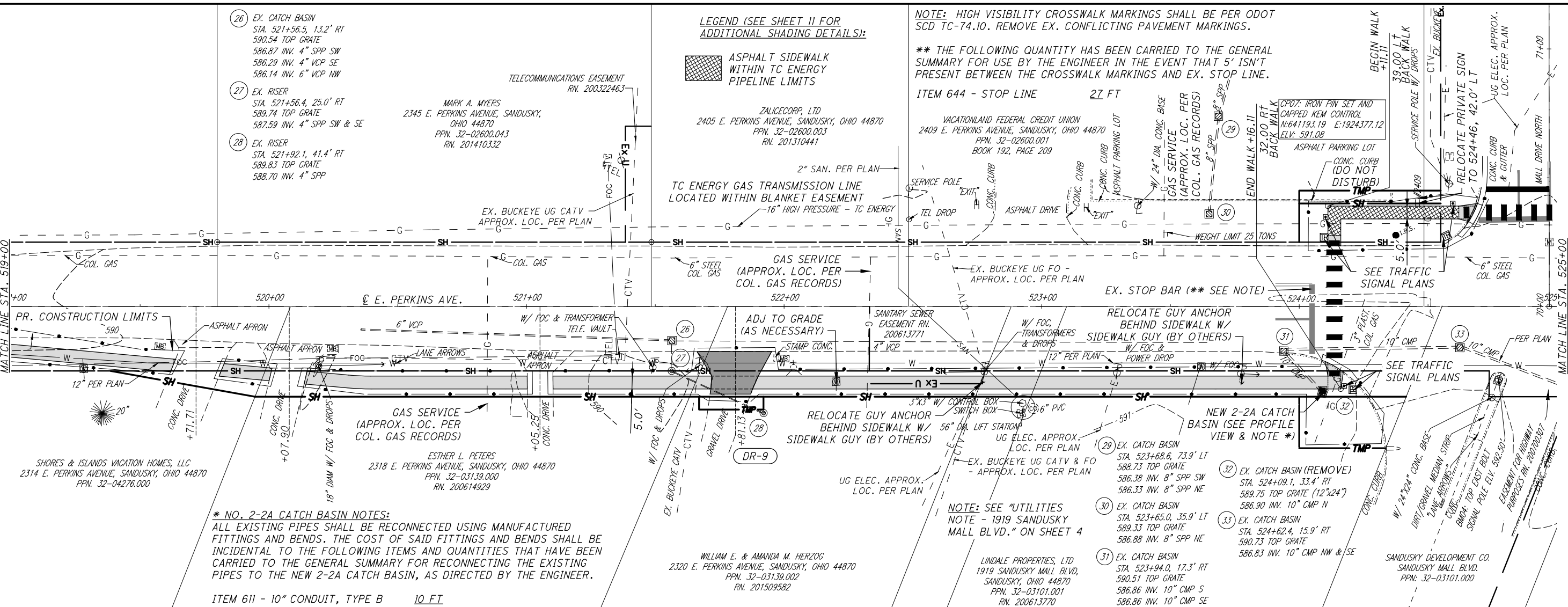
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TAB  
CHECKED  
MDH

PLAN AND PROFILE - E. PERKINS AVENUE  
STA. 513+00 TO STA. 519+00

D03 SRTS PERKINS  
6/9  
16/79



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RT SIDE ONLY PR. P.G.'S @ BACK OF WALK 610	590.46	590.83	590.29	590.87	589.83	590.29	590.45	590.61	590.85	590.36	610	LT SIDE ONLY PR. P.G.'S @ BACK OF WALK
600											600	
590											590	
580											580	
570											570	
560											560	
550											550	
540											540	
530											530	
520											520	
510											510	
500											500	
EX. P.G.'S @ ☉ OF WALK											EX. P.G.'S @ ☉ OF WALK	

**PLAN AND PROFILE - E. PERKINS AVENUE  
STA. 519+00 TO STA. 525+00**

**D03 SRTS PERKINS**

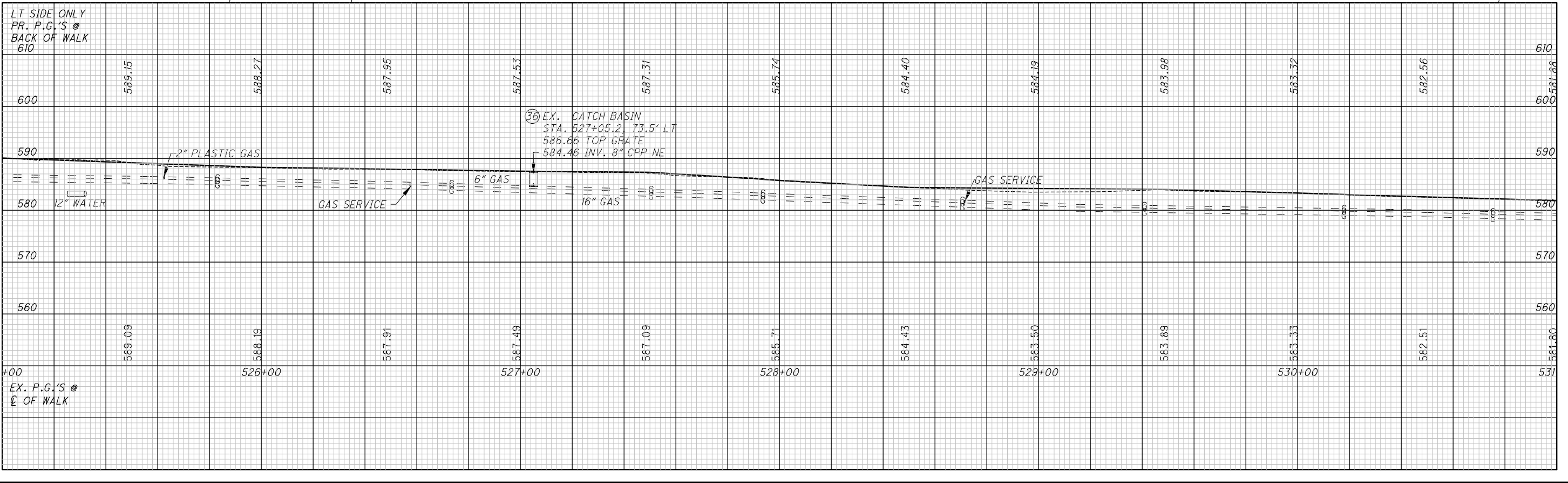
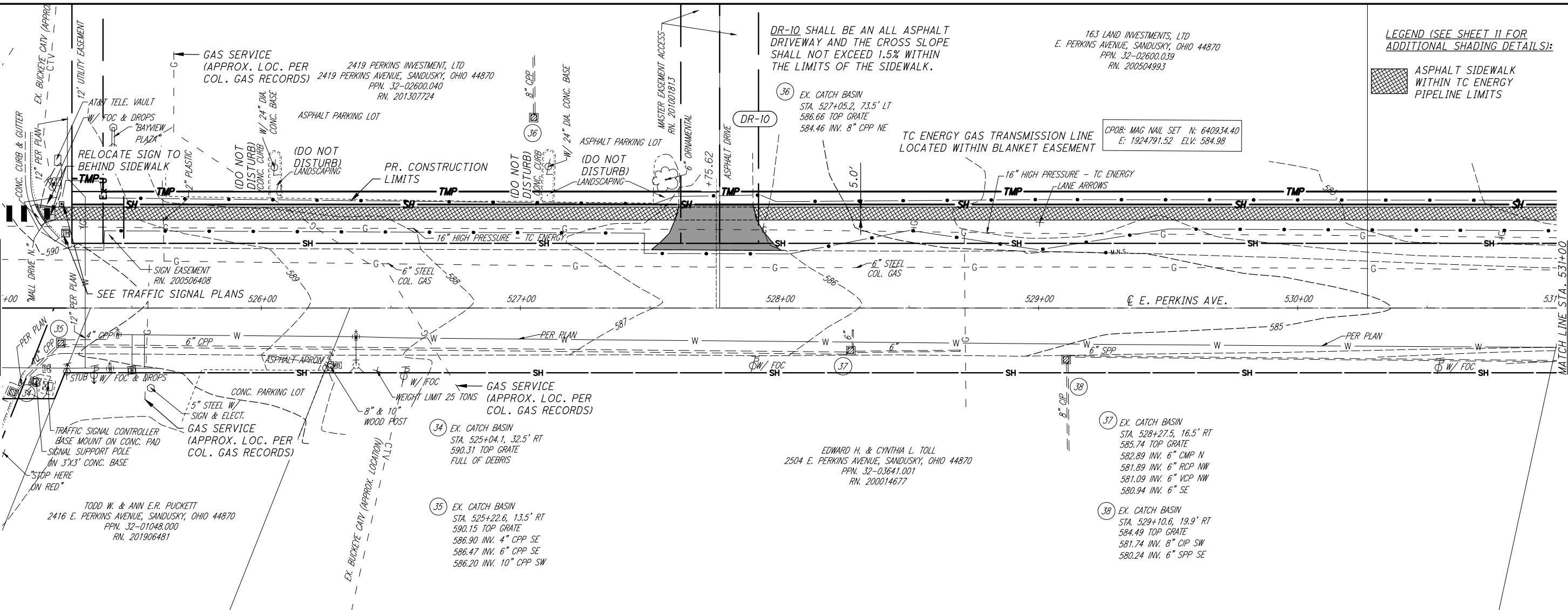
7 / 9

17 / 79

SCALE IN FEET  
HORIZONTAL  
VERTICAL

CALCULATED  
TAB  
CHECKED  
MDH

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LEGEND (SEE SHEET 11 FOR ADDITIONAL SHADING DETAILS):  
 ASPHALT SIDEWALK WITHIN TC ENERGY PIPELINE LIMITS

163 LAND INVESTMENTS, LTD  
 E. PERKINS AVENUE, SANDUSKY, OHIO 44870  
 PPN. 32-02600.039  
 RN. 200504993

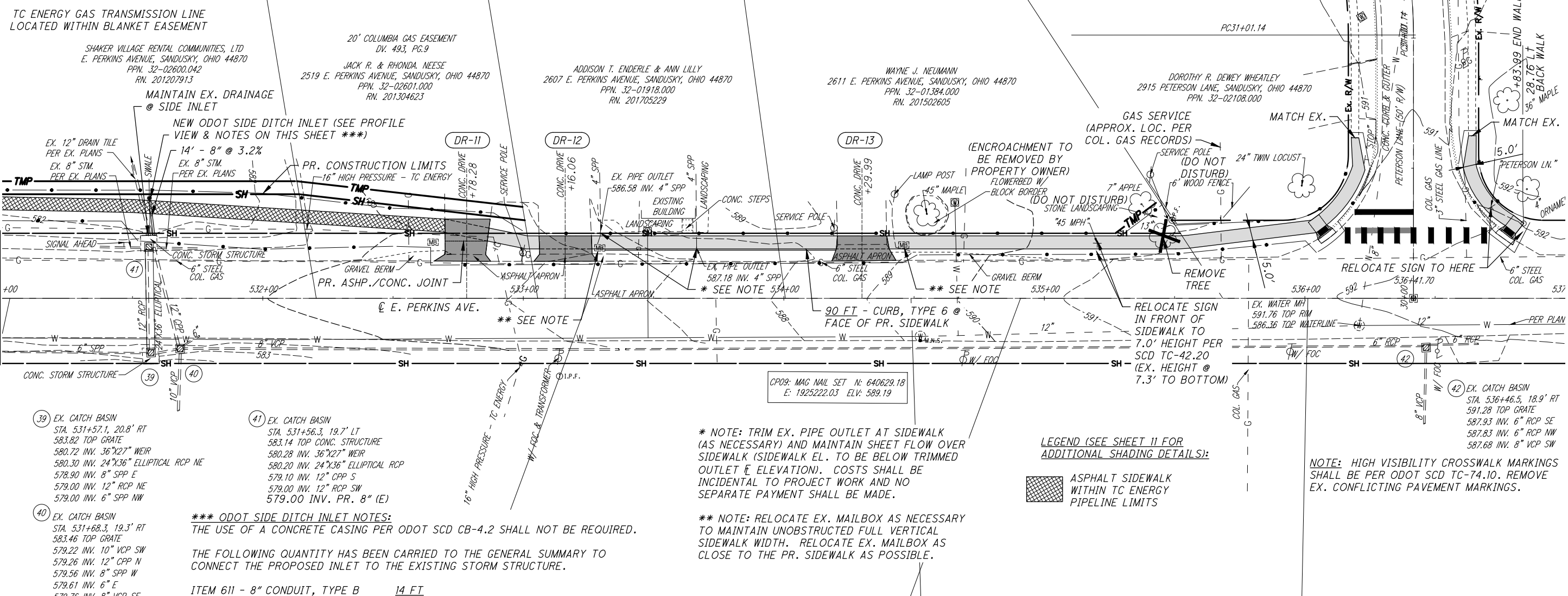
CP08: MAG NAIL SET N: 640934.40  
 E: 1924791.52 ELV: 584.98



PLAN AND PROFILE - E. PERKINS AVENUE  
 STA. 525+00 TO STA. 531+00

D03 SRTS PERKINS

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LT SIDE ONLY PR. P.G.'S @ BACK OF WALK 610	581.51	583.00	585.03	585.67	587.70	588.51	589.43	590.28	591.11	591.32	591.85	610
600												600
590		EX. CATCH BASIN STA. 531+56.3, 19.7' LT 583.14 TOP CONC. STRUCTURE 580.28 INV. 36"x27" WEIR 580.20 INV. 24"x36" ELLIPTICAL RCP 579.10 INV. 12" CPP S 579.00 INV. 12" RCP SW 579.00 INV. PR. 8" (E)		EX. PIPE OUTLET 586.58 INV. 4" SPP		EX. PIPE OUTLET 587.18 INV. 4" SPP						590
580												580
570		PR. CB, SIDE DITCH INLET STA. 531+56.5, 38.5' LT 581.15 TOP GRATE (TYPE B) 579.45 INV. PR. 8" (W)										570
560												560
550	581.45	582.15	584.98	585.58	587.34	588.08	589.28	590.24	591.11	591.36	591.85	550
540		532+00		533+00		534+00		535+00		536+00		537
EX. P.G.'S @ E OF WALK												

**PLAN AND PROFILE - E. PERKINS AVENUE**  
**STA. 531+00 TO STA. 537+00**

D03 SRTS PERKINS

9 / 9

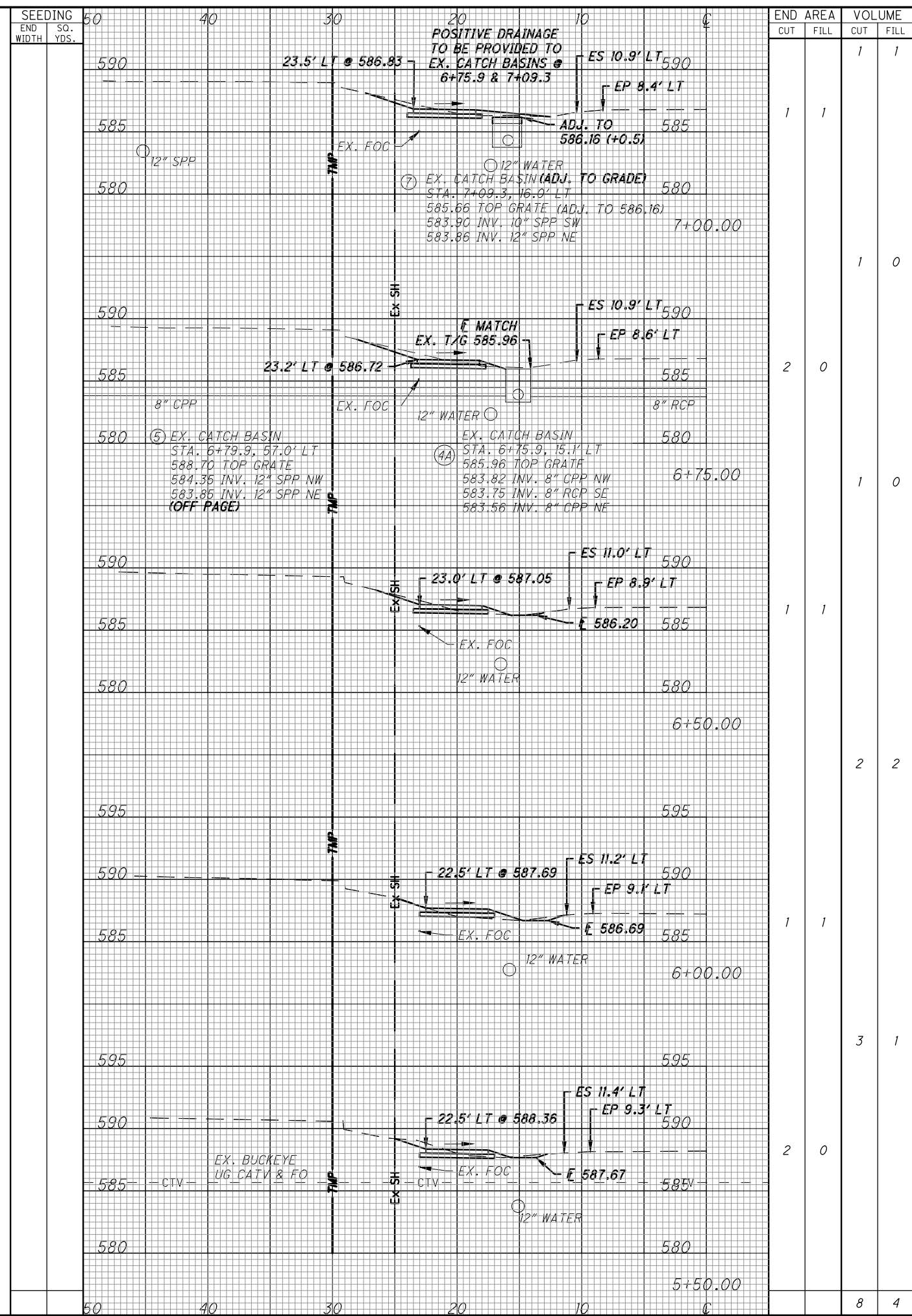
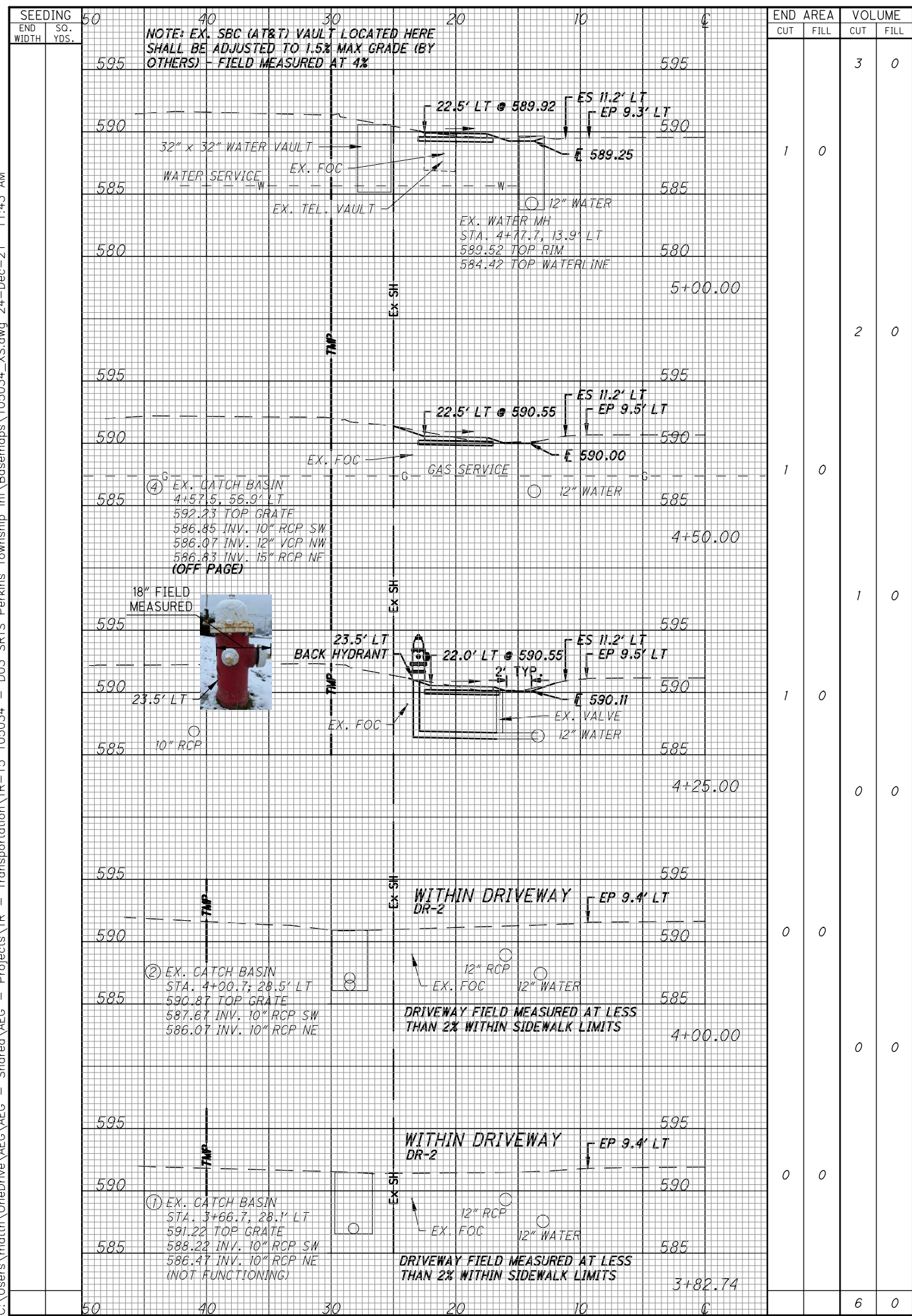
19 / 79

CALCULATED  
TAB  
CHECKED  
MDH

HORIZONTAL SCALE IN FEET



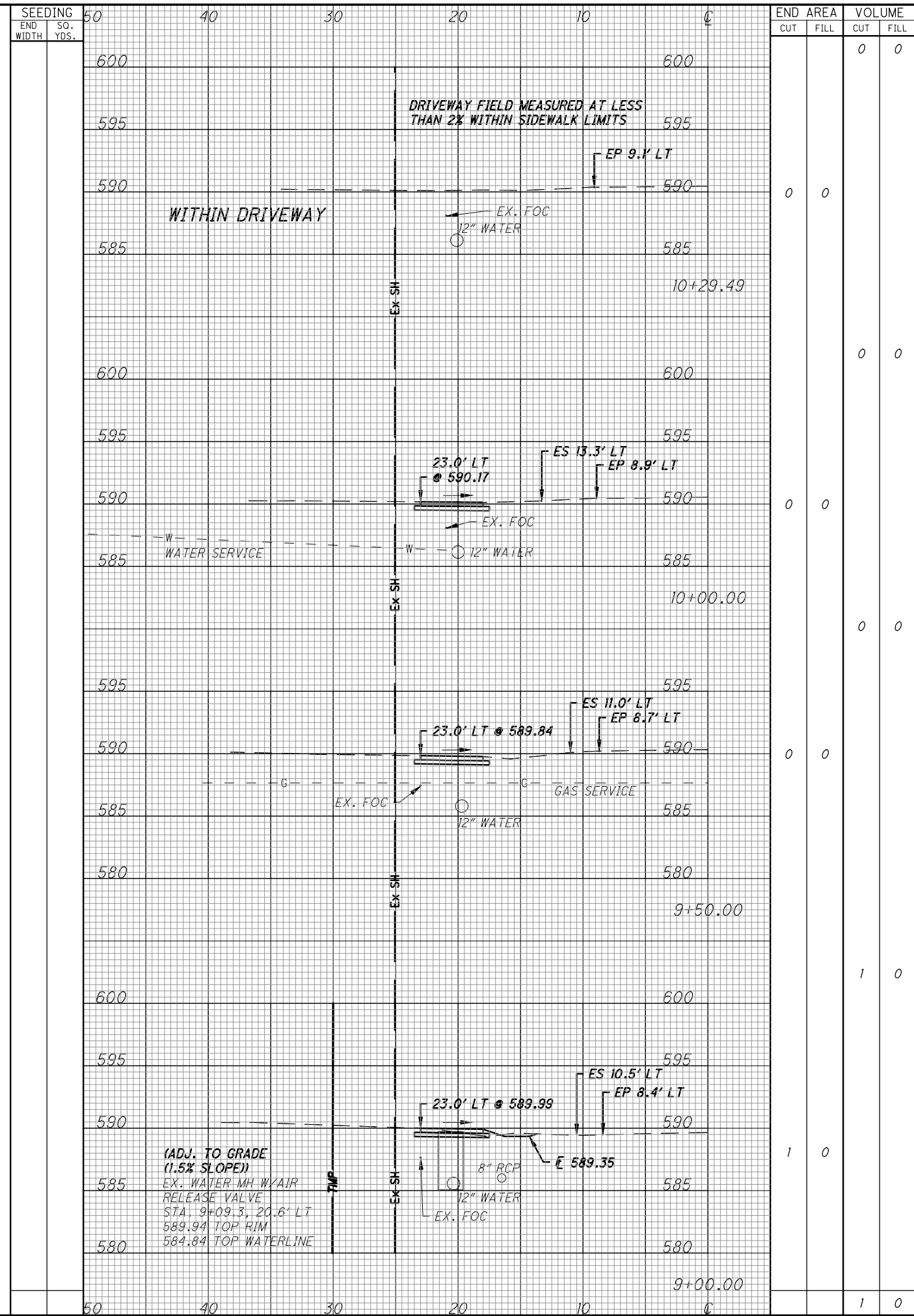
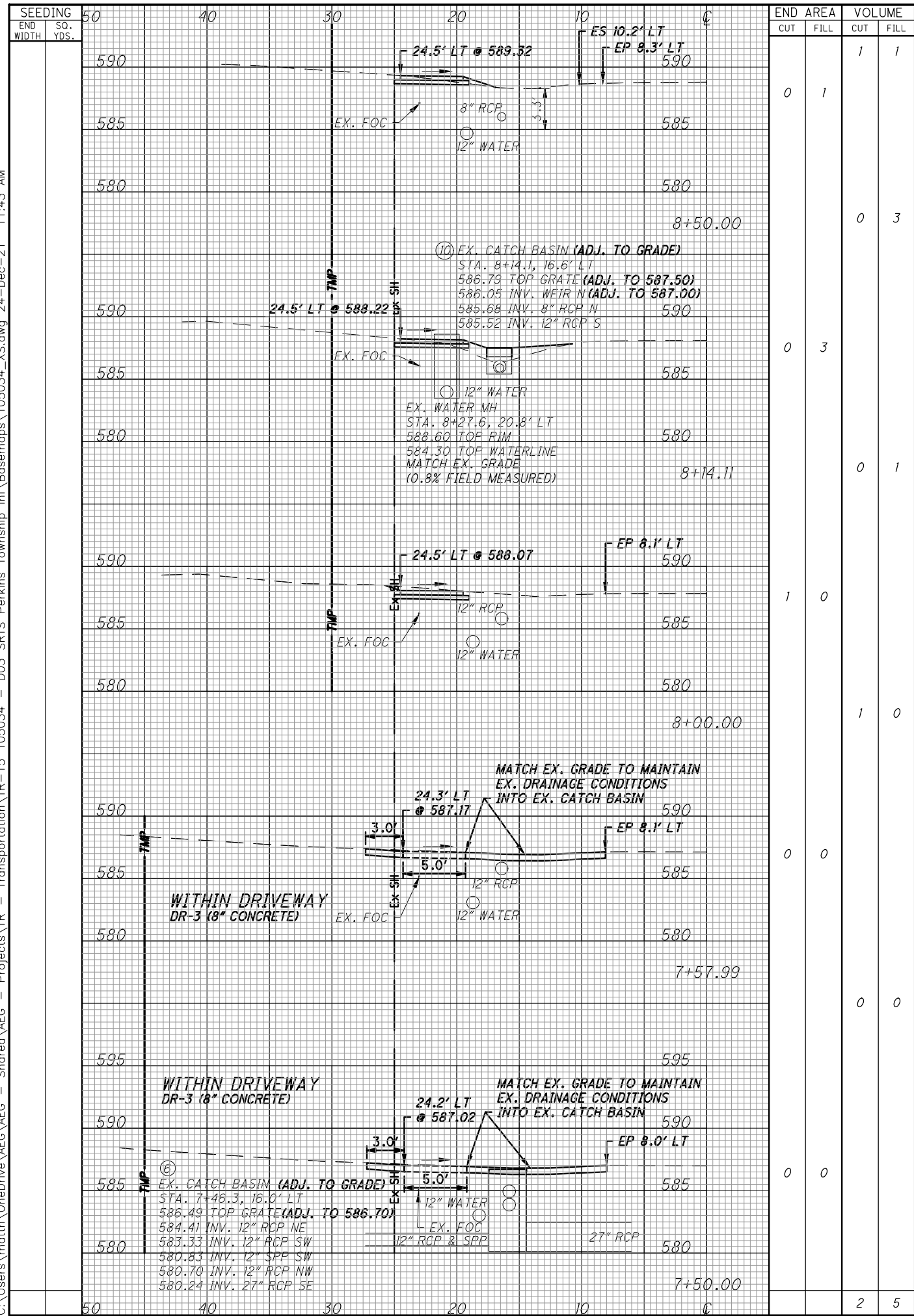




CROSS SECTIONS - E. STRUB ROAD  
STA. 3+82.74 TO STA. 7+00

D03 SRTS PERKINS

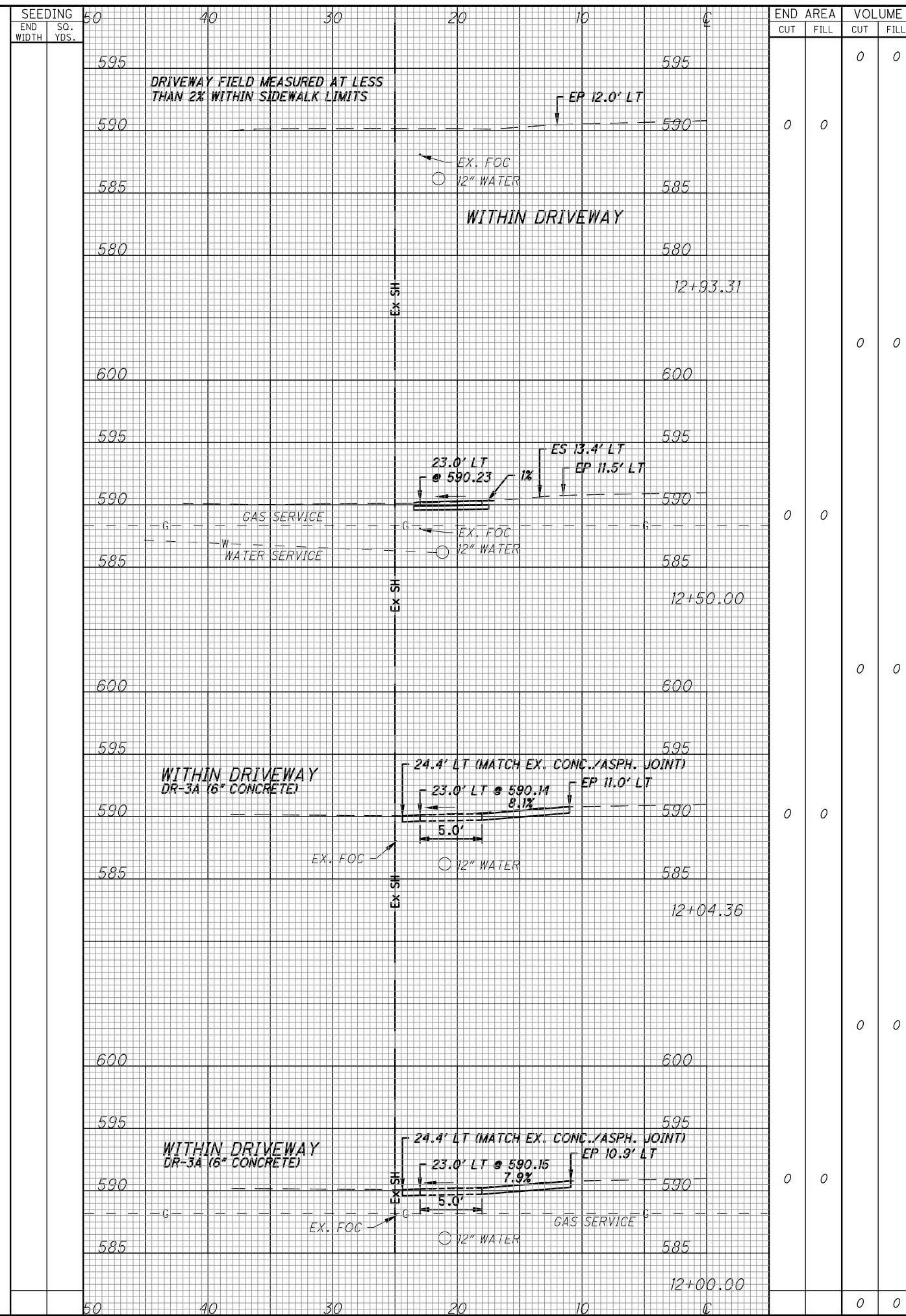
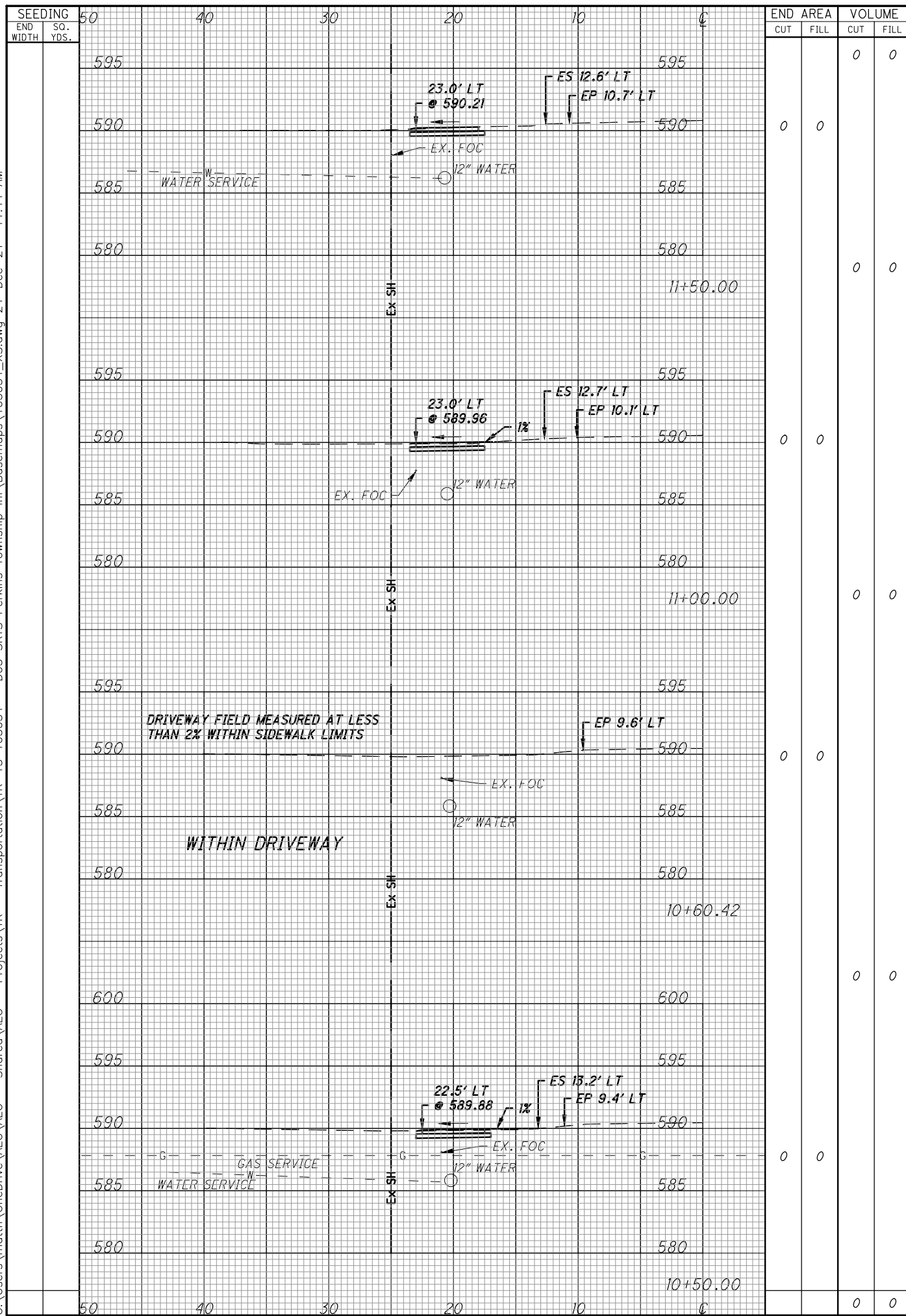
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CROSS SECTIONS - E. STRUB ROAD  
STA. 7+50 TO STA. 10+29.49

D03 SRTS PERKINS

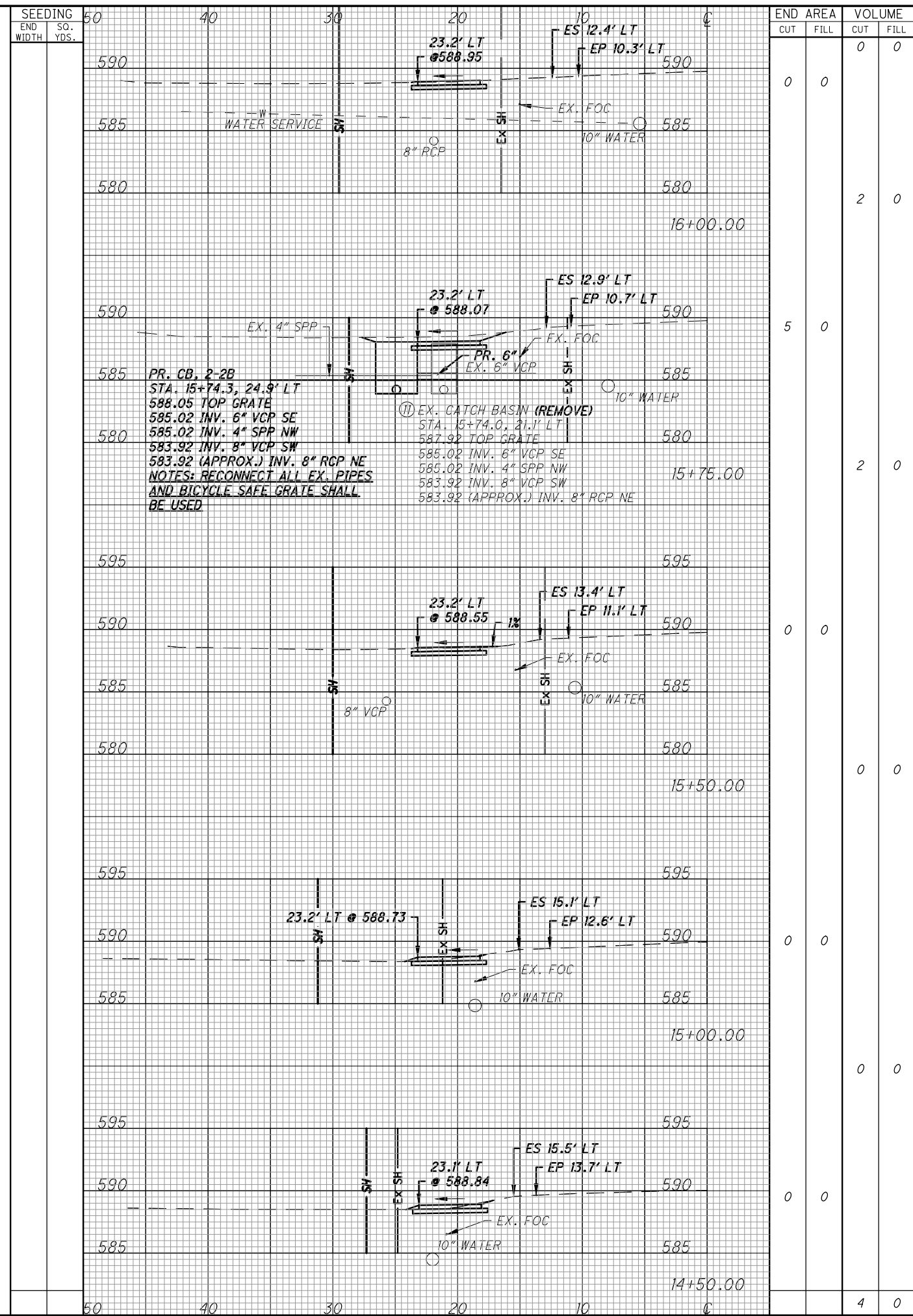
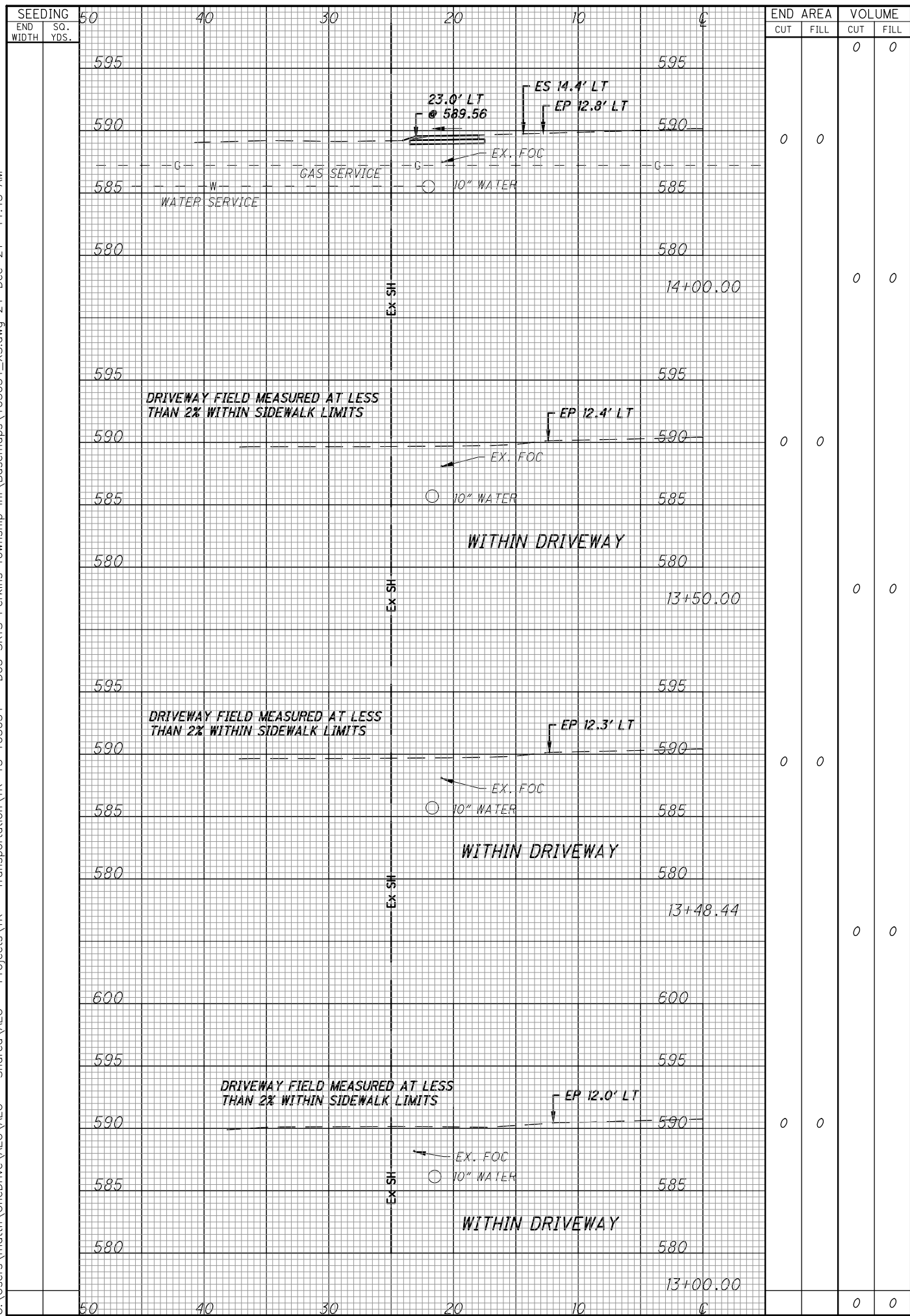
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CROSS SECTIONS - E. STRUB ROAD  
STA. 10+50 TO STA. 12+93.31

D03 SRTS PERKINS

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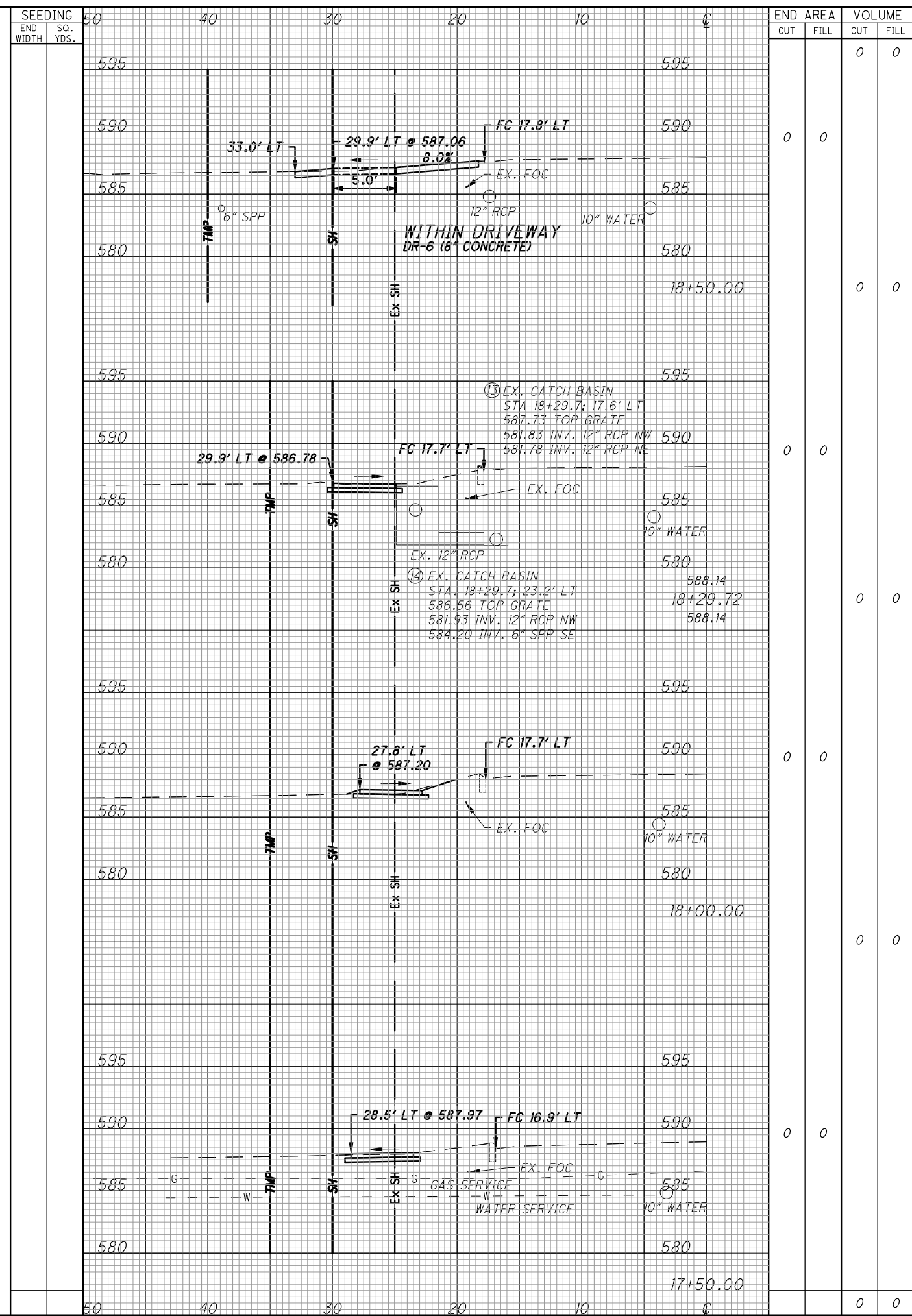
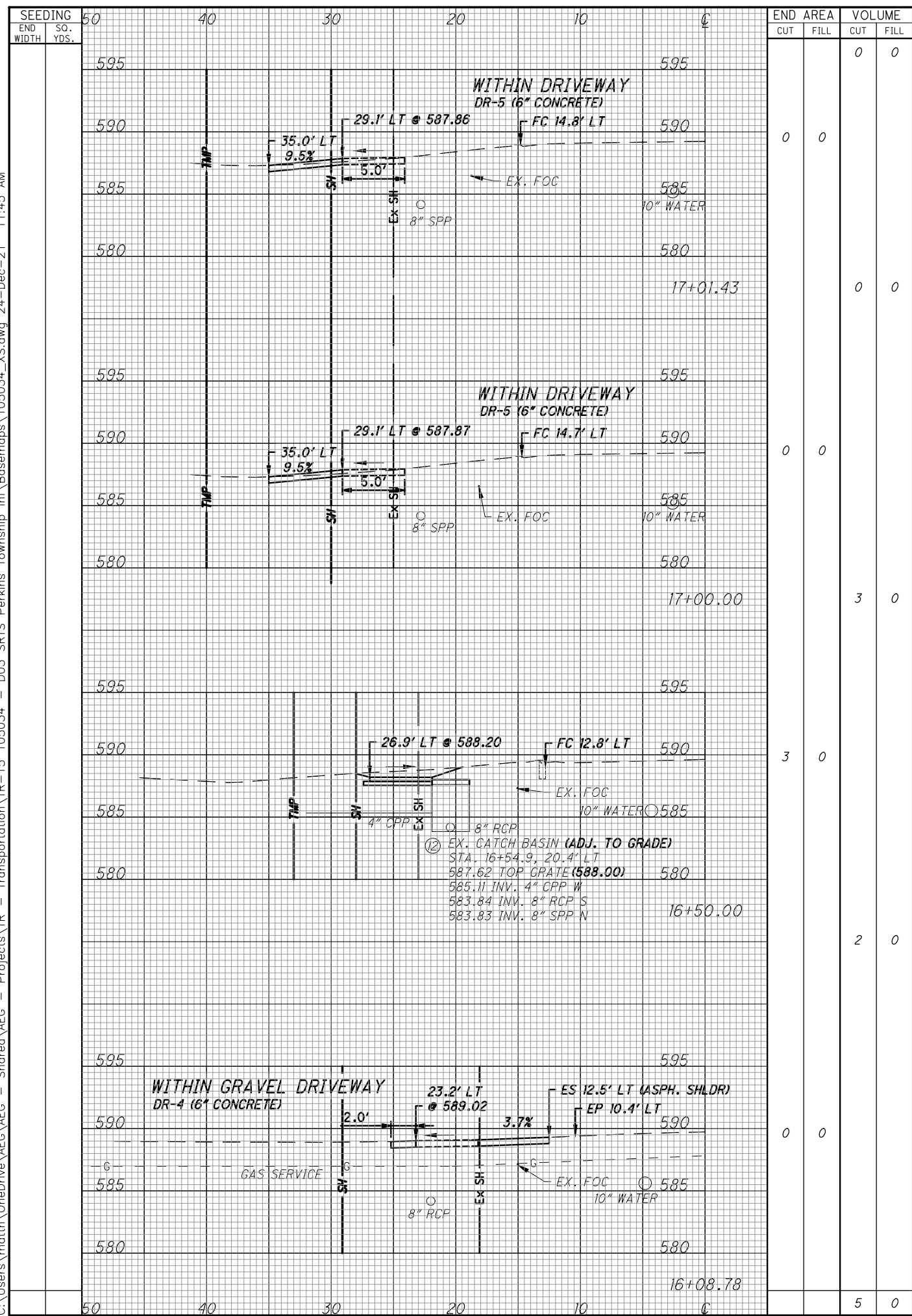


CROSS SECTIONS - E. STRUB ROAD  
STA. 13+00 TO STA. 16+00

D03 SRTS PERKINS

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MDH

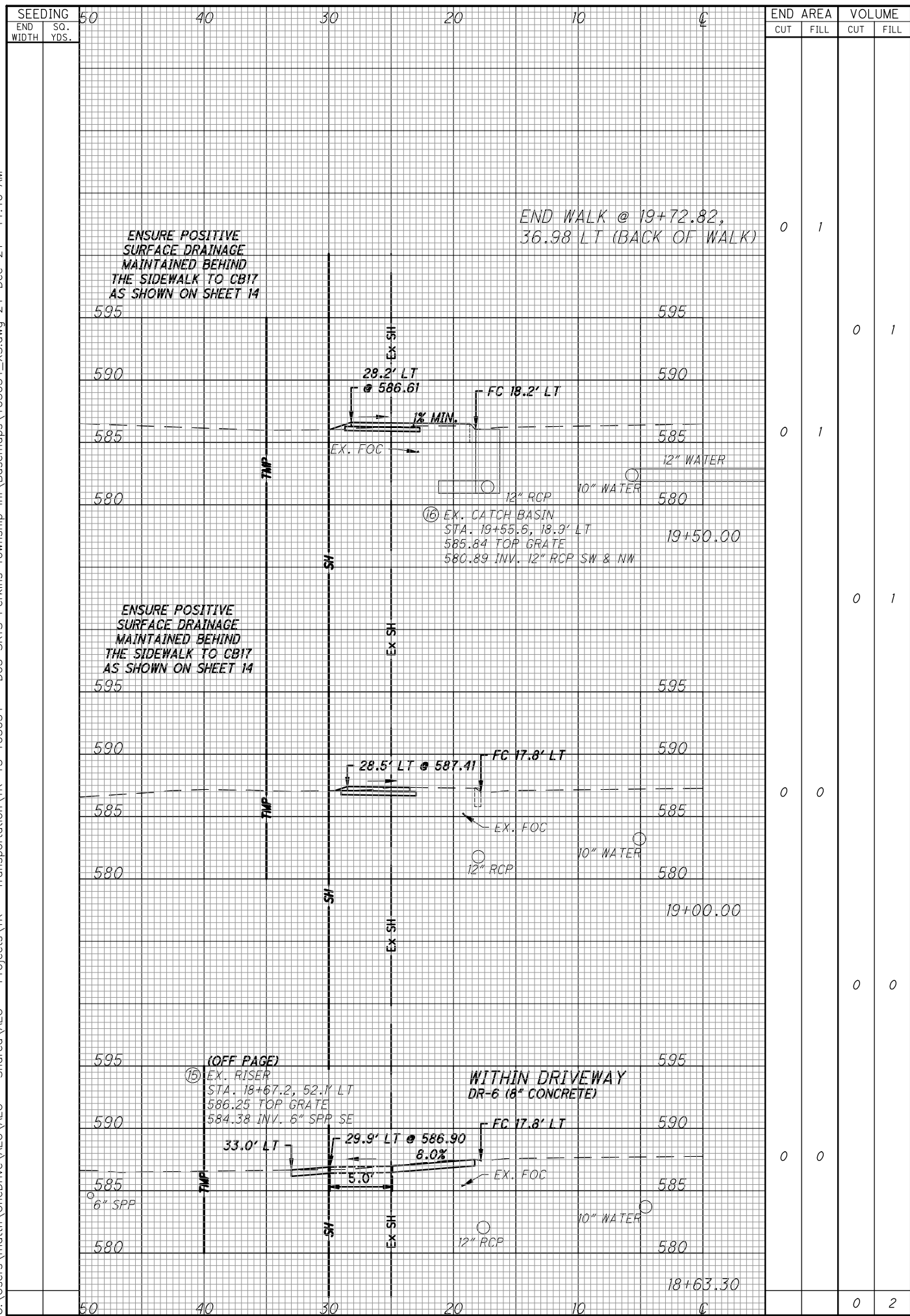
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CROSS SECTIONS - E. STRUB ROAD  
STA. 16+08.78 TO STA. 18+50

D03 SRTS PERKINS

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SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME	
		CUT	FILL	CUT	FILL
50	0	0	1	0	1
590	0	0	1	0	1
585	0	0	1	0	1
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595	0	0	0	0	0
590	0	0	0	0	0
585	0	0	0	0	0
580	0	0	0	0	0
595	0	0	0	0	0
590	0	0	0	0	0
585	0	0	0	0	0
580	0	0	0	0	0
595	0	0	0	0	0
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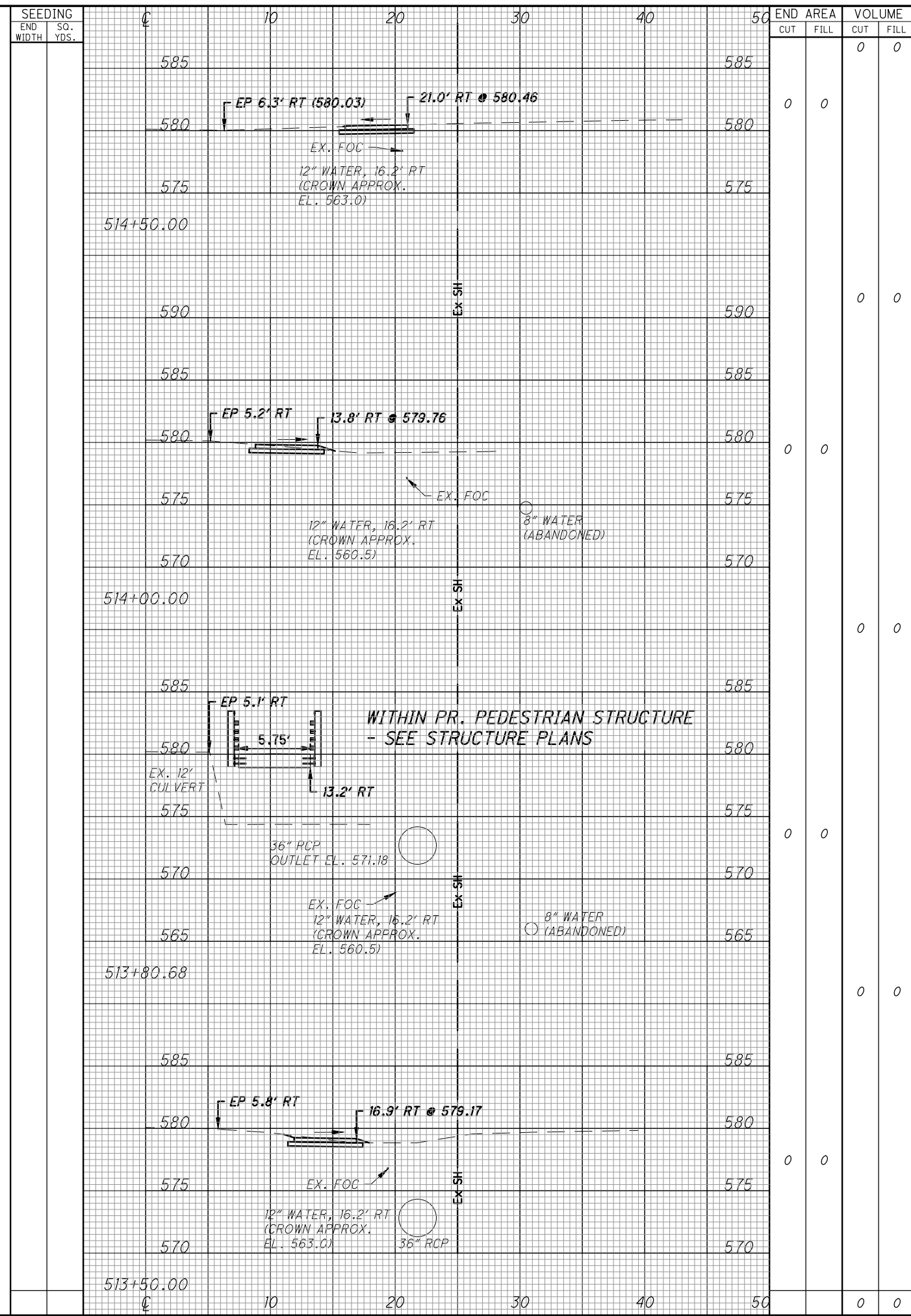
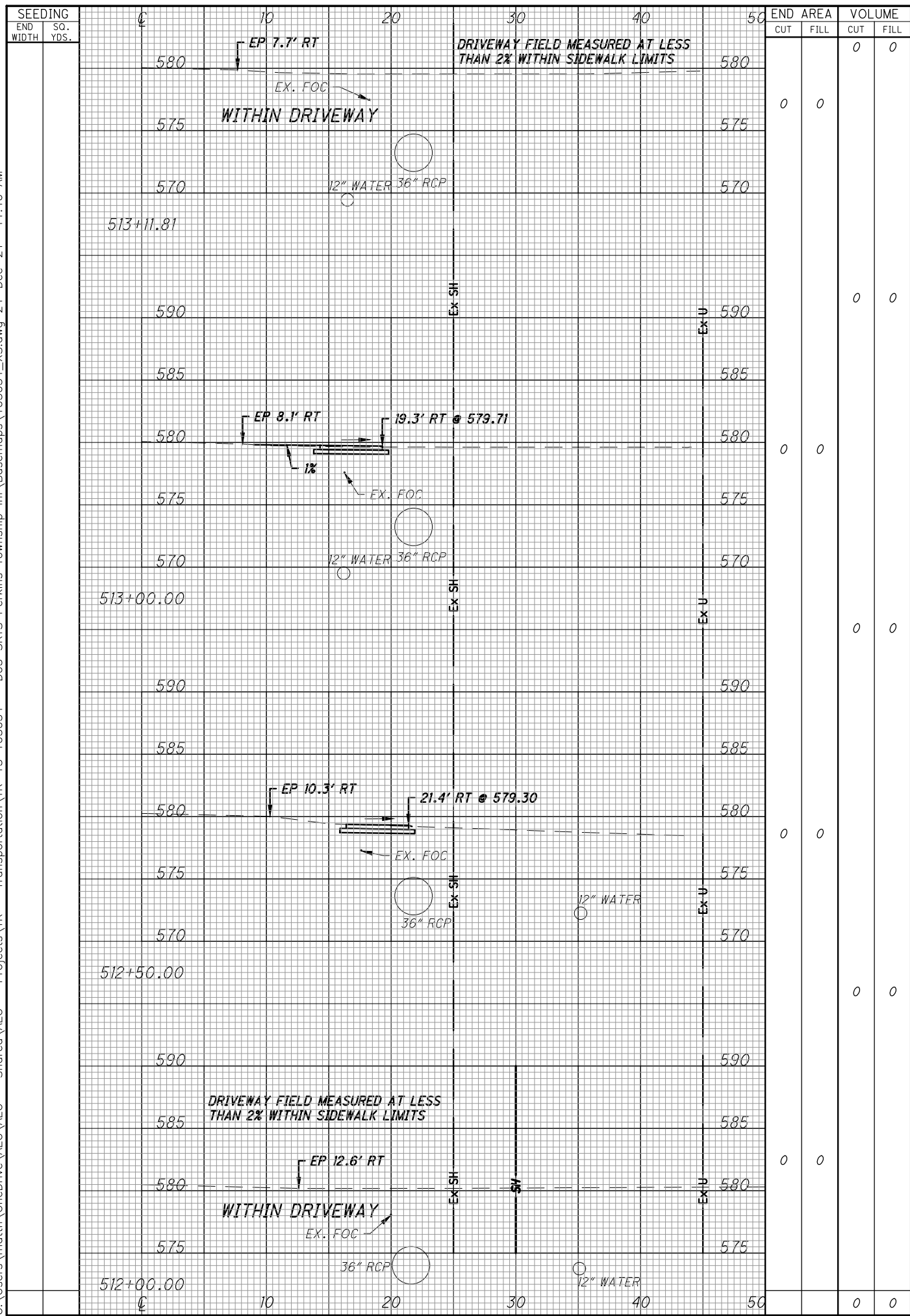
CROSS SECTIONS - E. STRUB ROAD  
STA. 18+63.30 TO STA. 19+50

D03 SRTS PERKINS





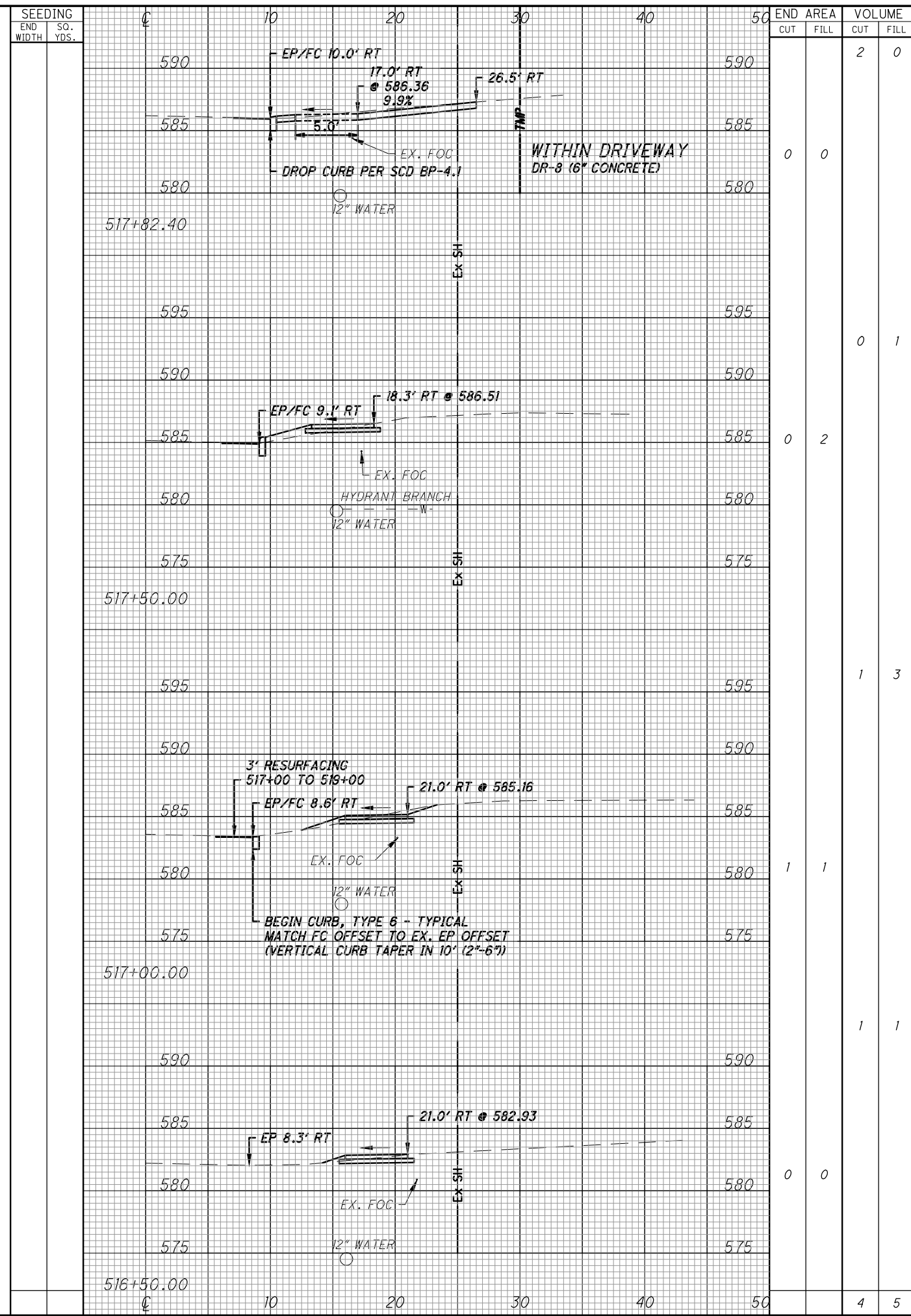
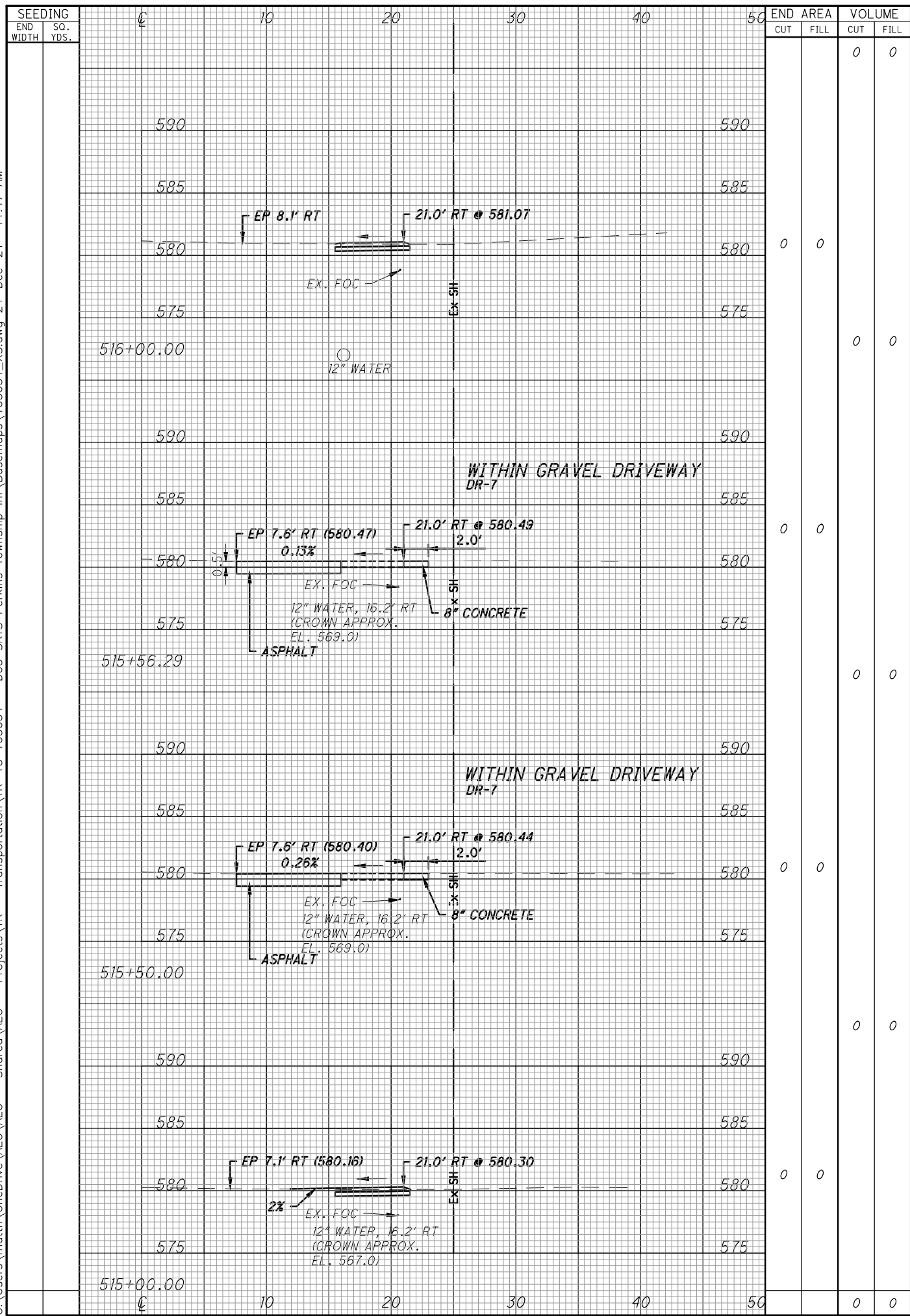
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CROSS SECTIONS - E. PERKINS AVENUE  
STA. 512+00 TO STA. 514+50

D03 SRTS PERKINS

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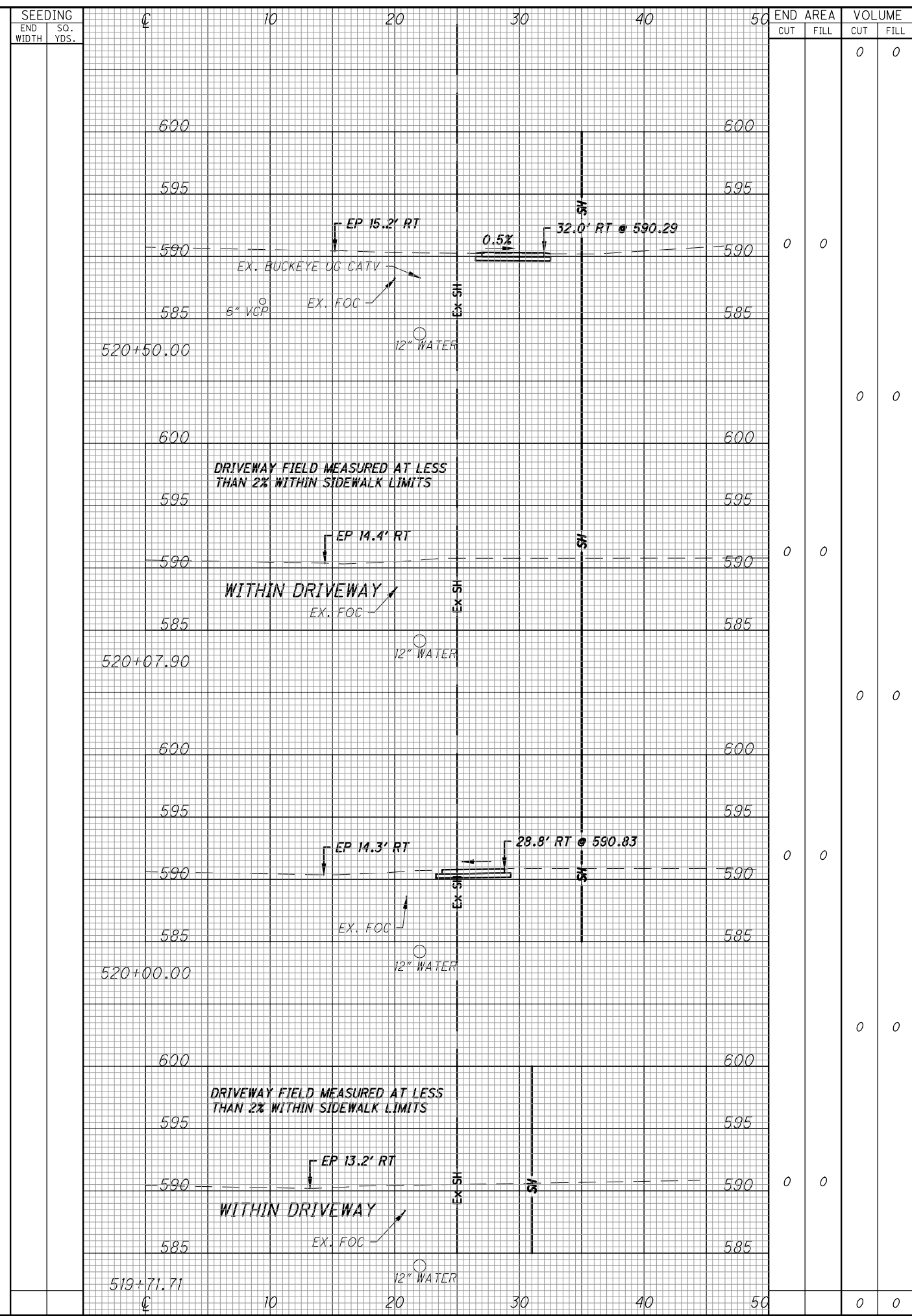
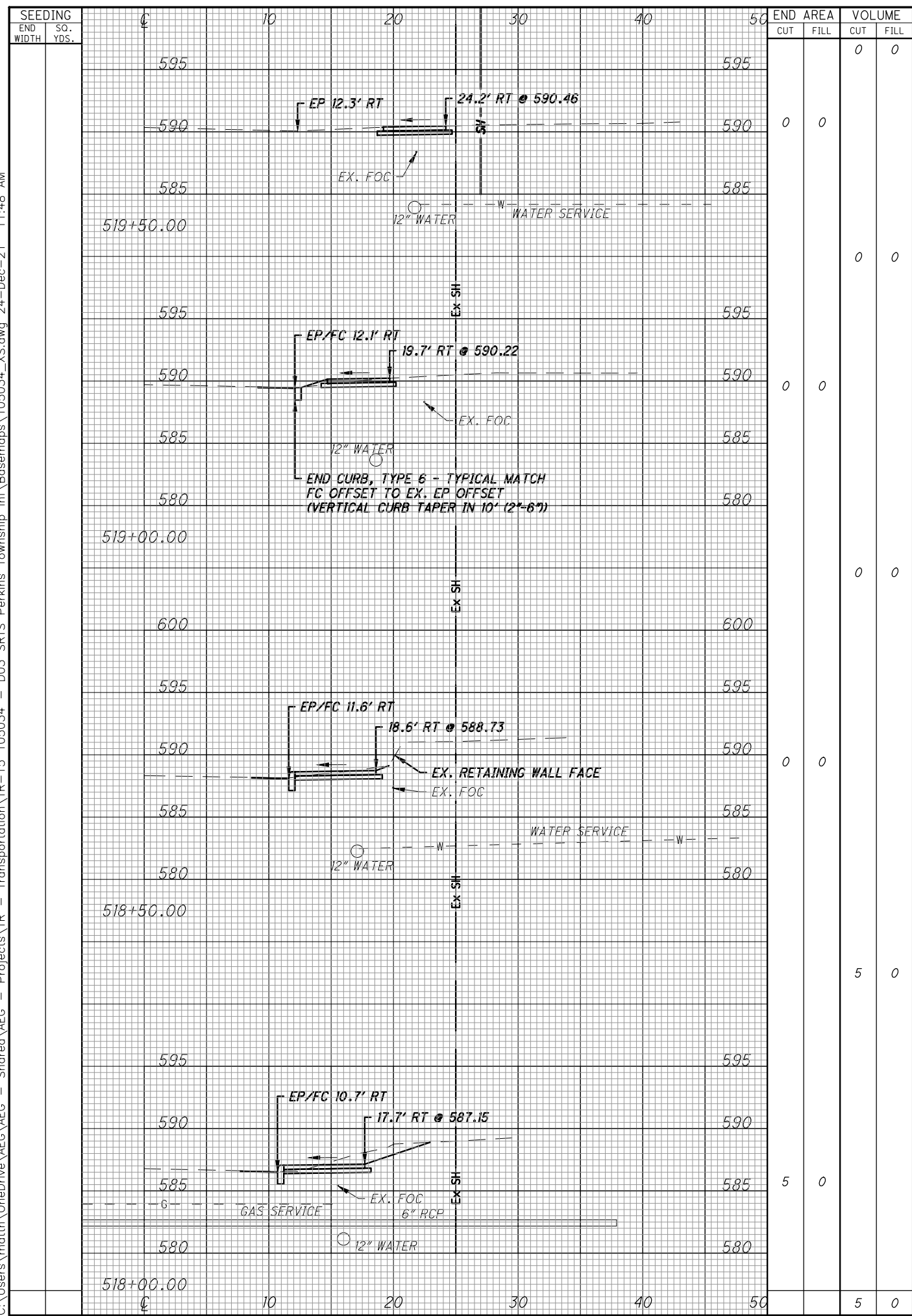


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STA. 515+00 TO STA. 517+82.40

D03 SRTS PERKINS

29  
79

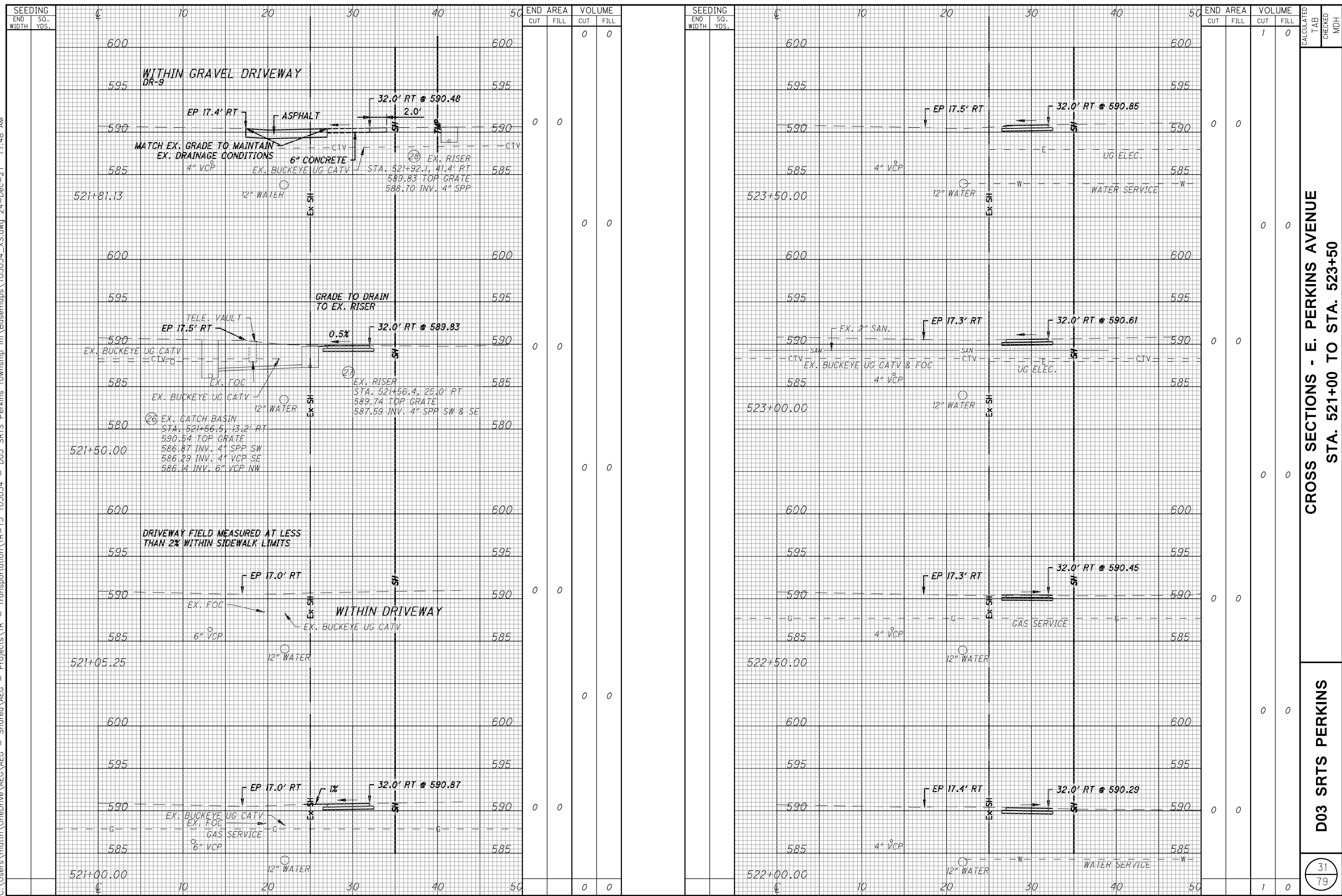
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STA. 518+00 TO STA. 520+50

D03 SRTS PERKINS

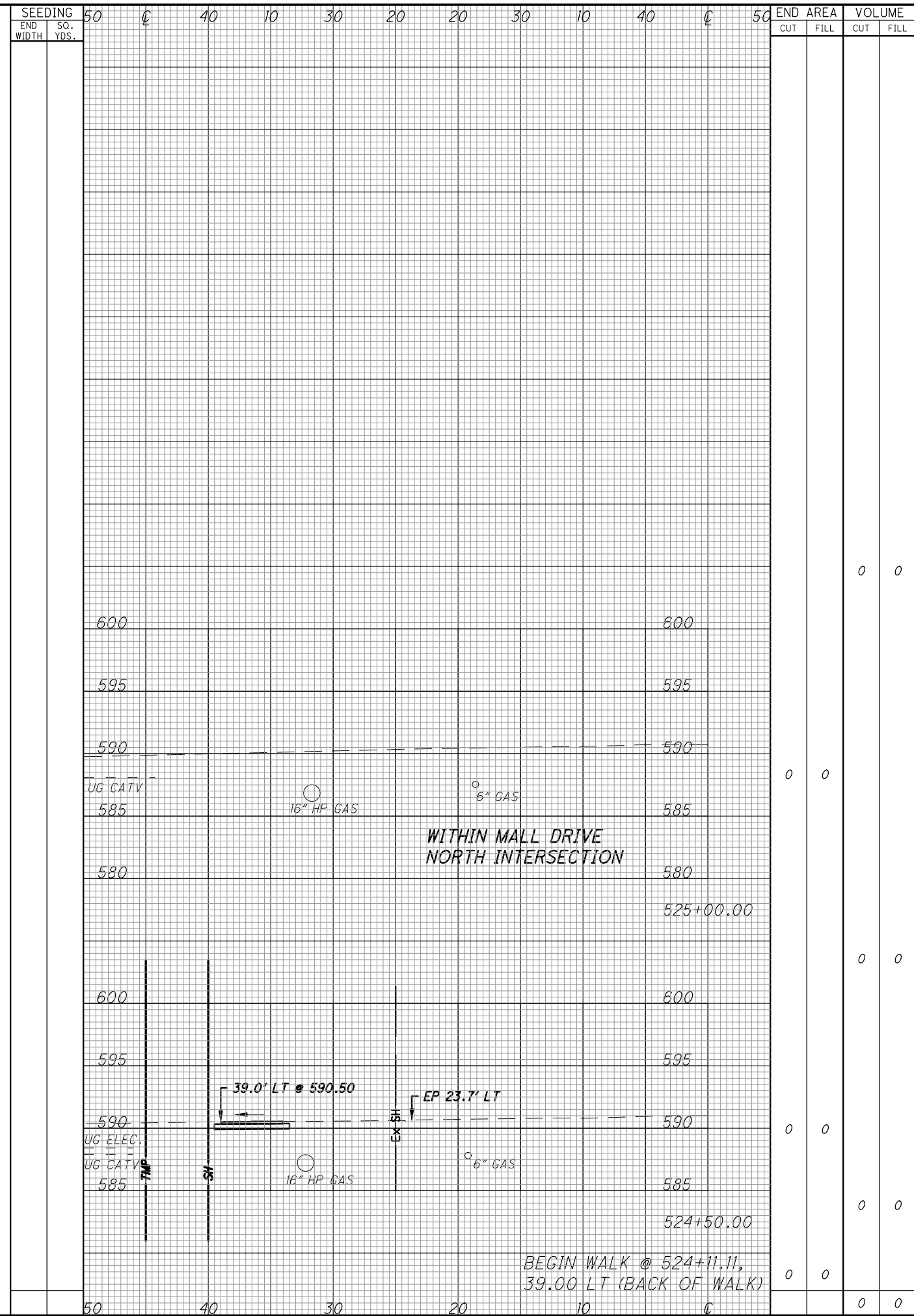
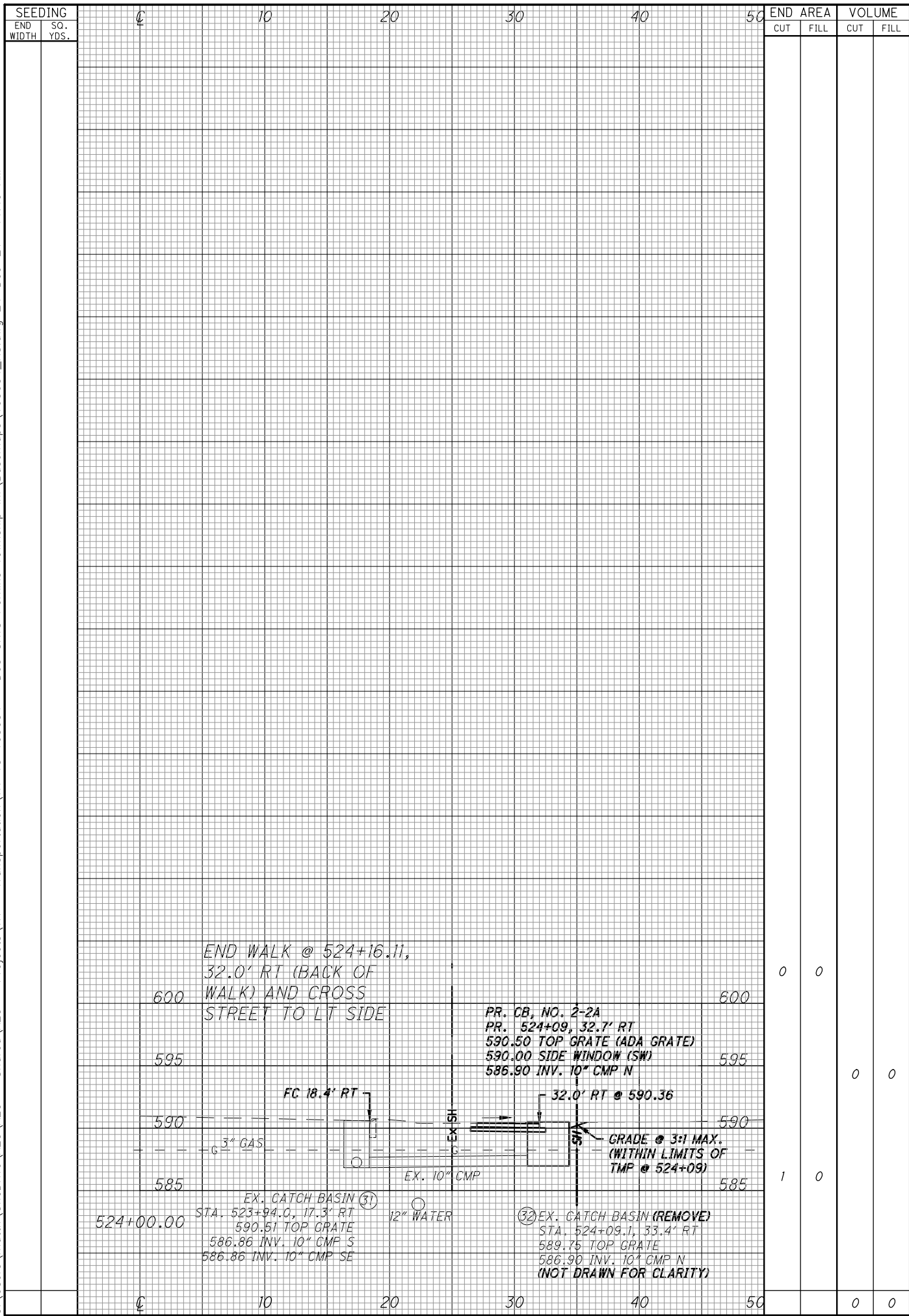
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**CROSS SECTIONS - E. PERKINS AVENUE**  
**STA. 521+00 TO STA. 523+50**

**D03 SRTS PERKINS**

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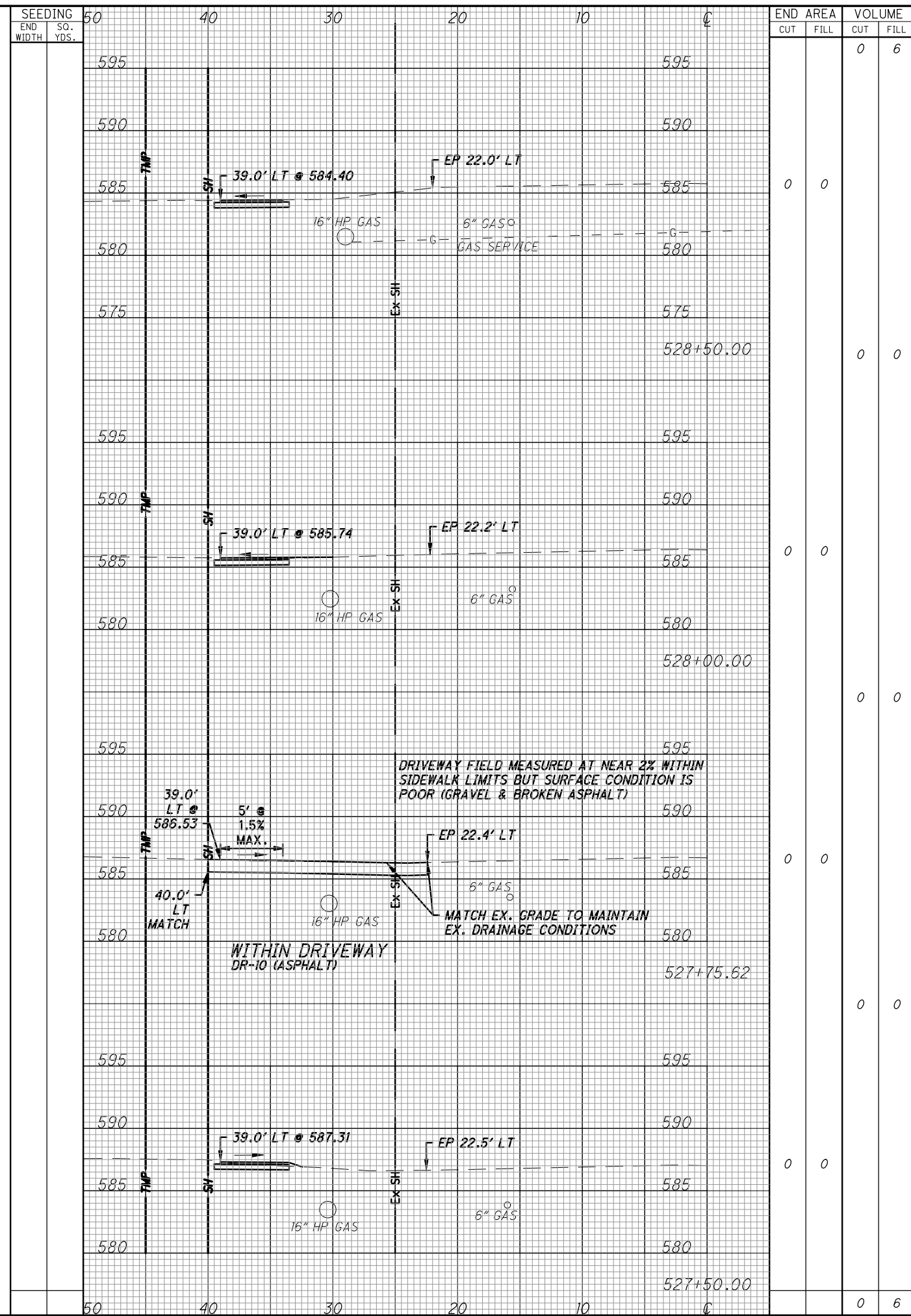
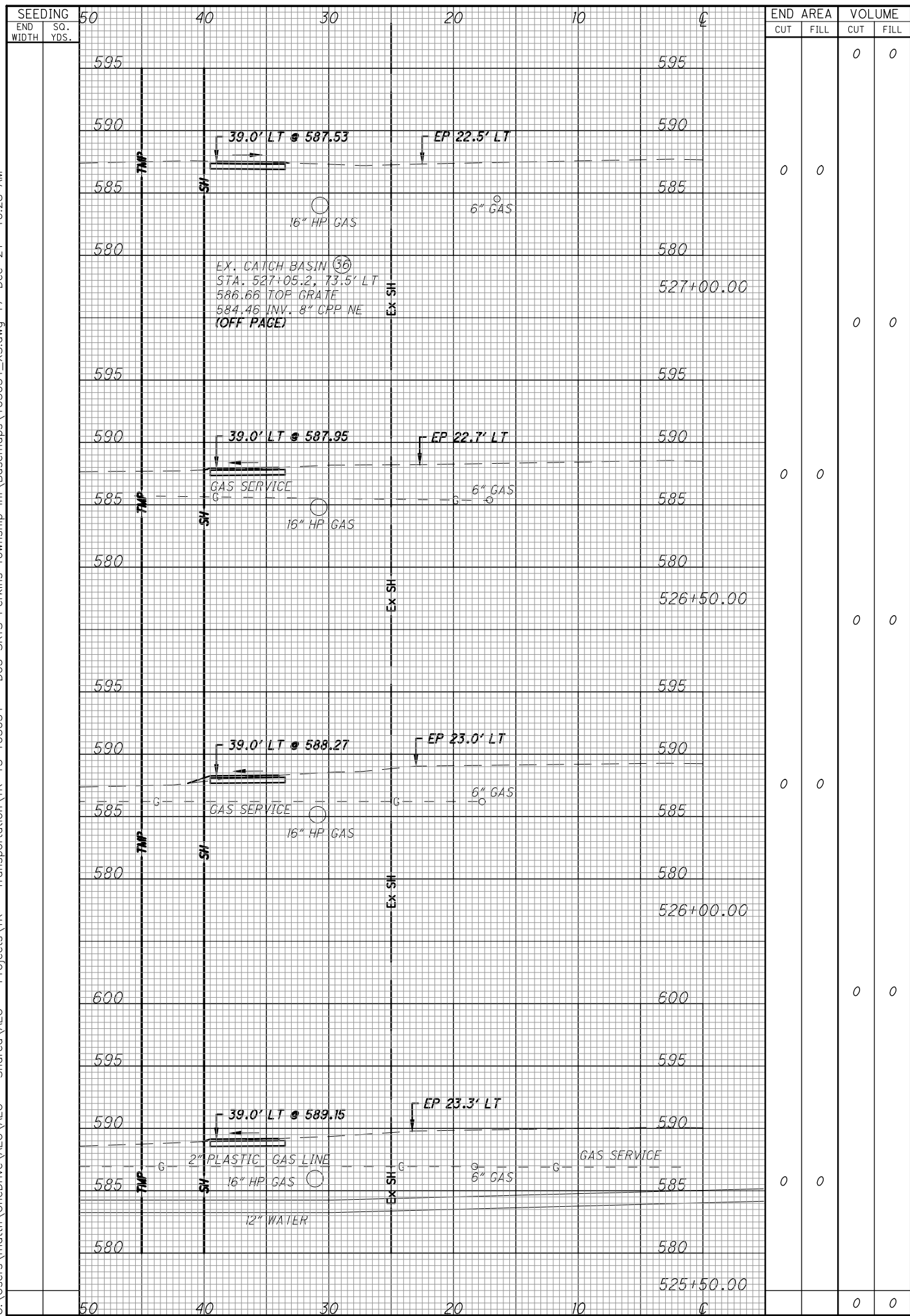
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**D03 SRTS PERKINS**

**CROSS SECTIONS - E. PERKINS AVENUE  
 STA. 524+00 TO STA. 525+00**



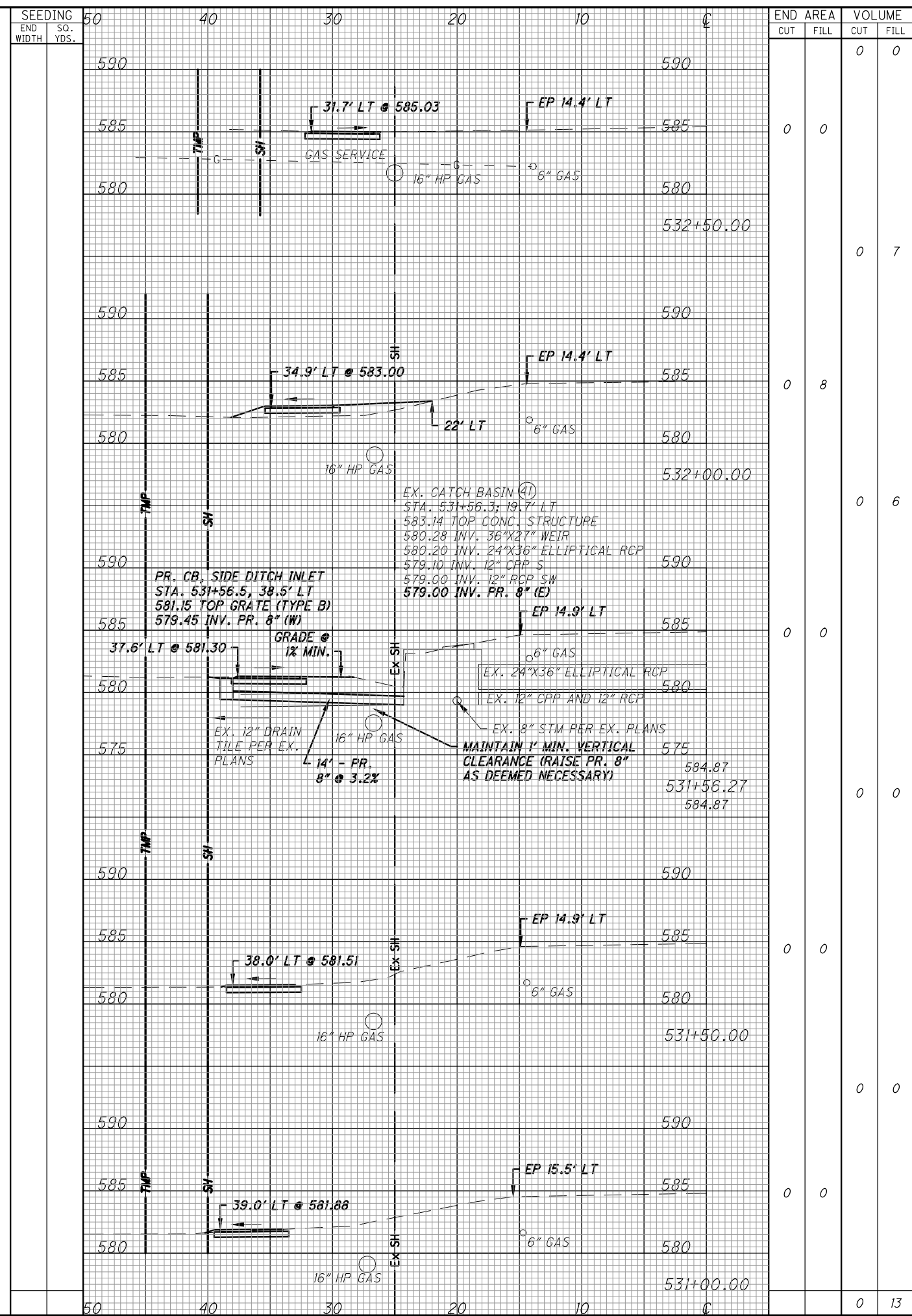
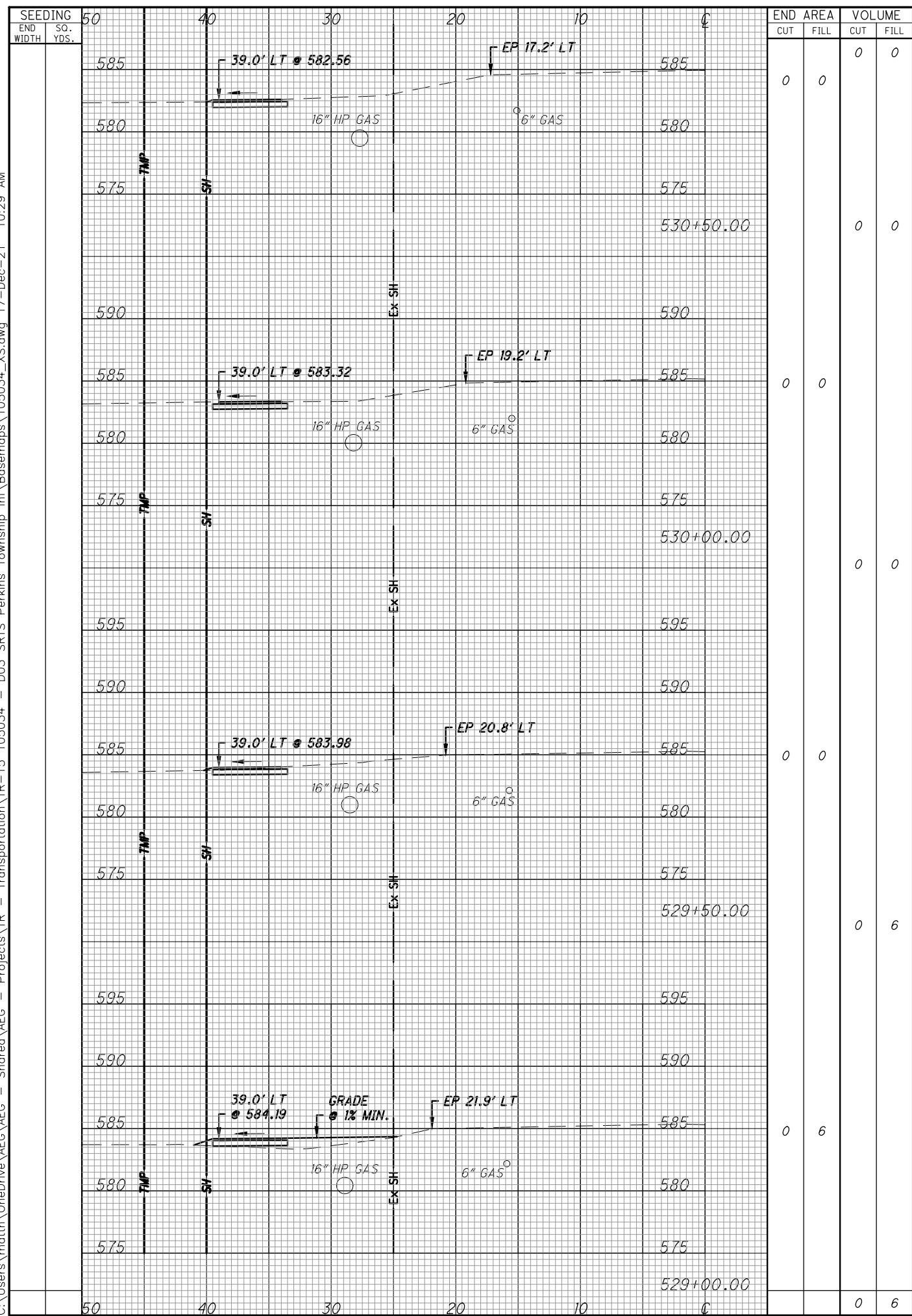
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CROSS SECTIONS - E. PERKINS AVENUE  
STA. 525+50 TO STA. 528+50

D03 SRTS PERKINS

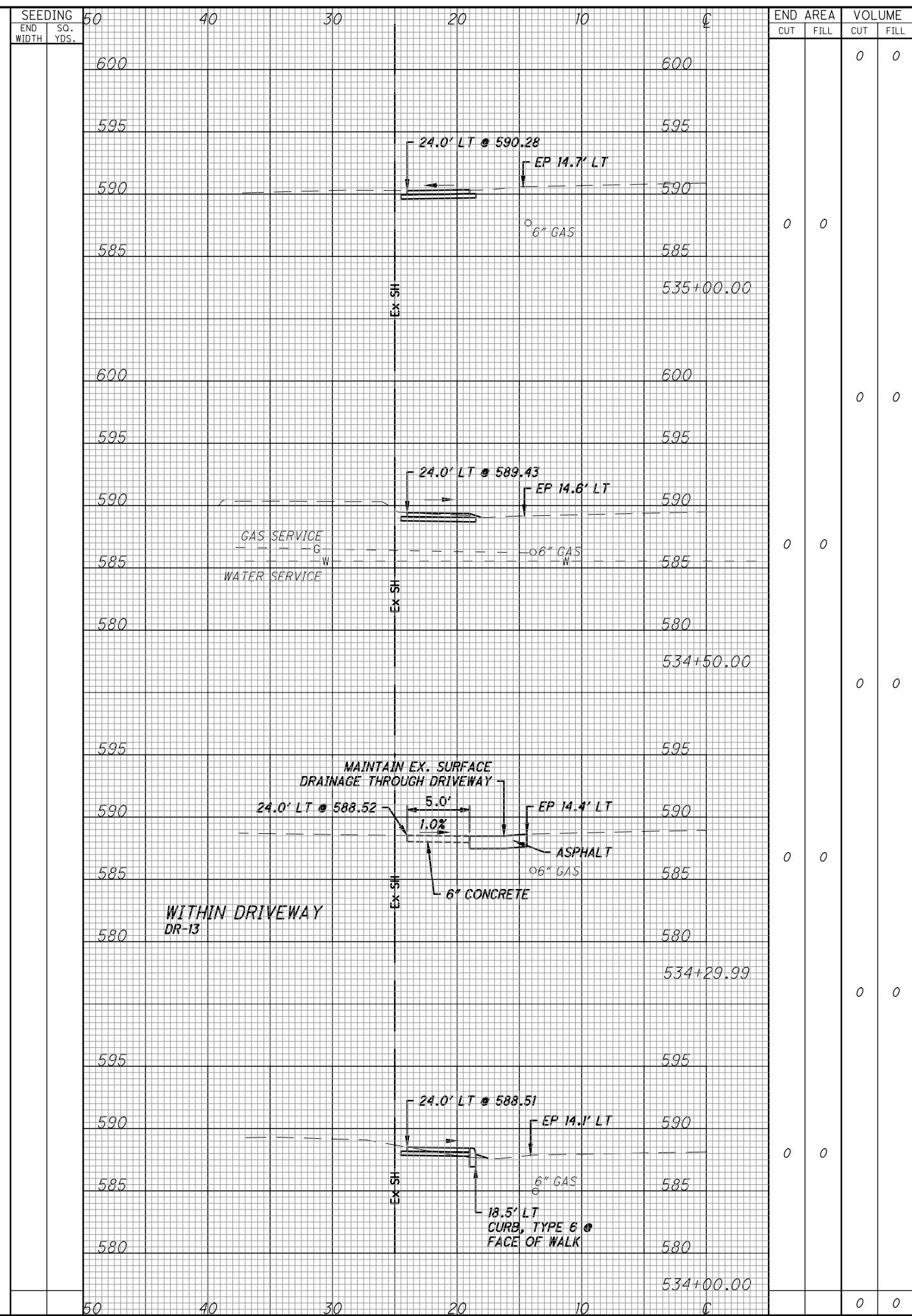
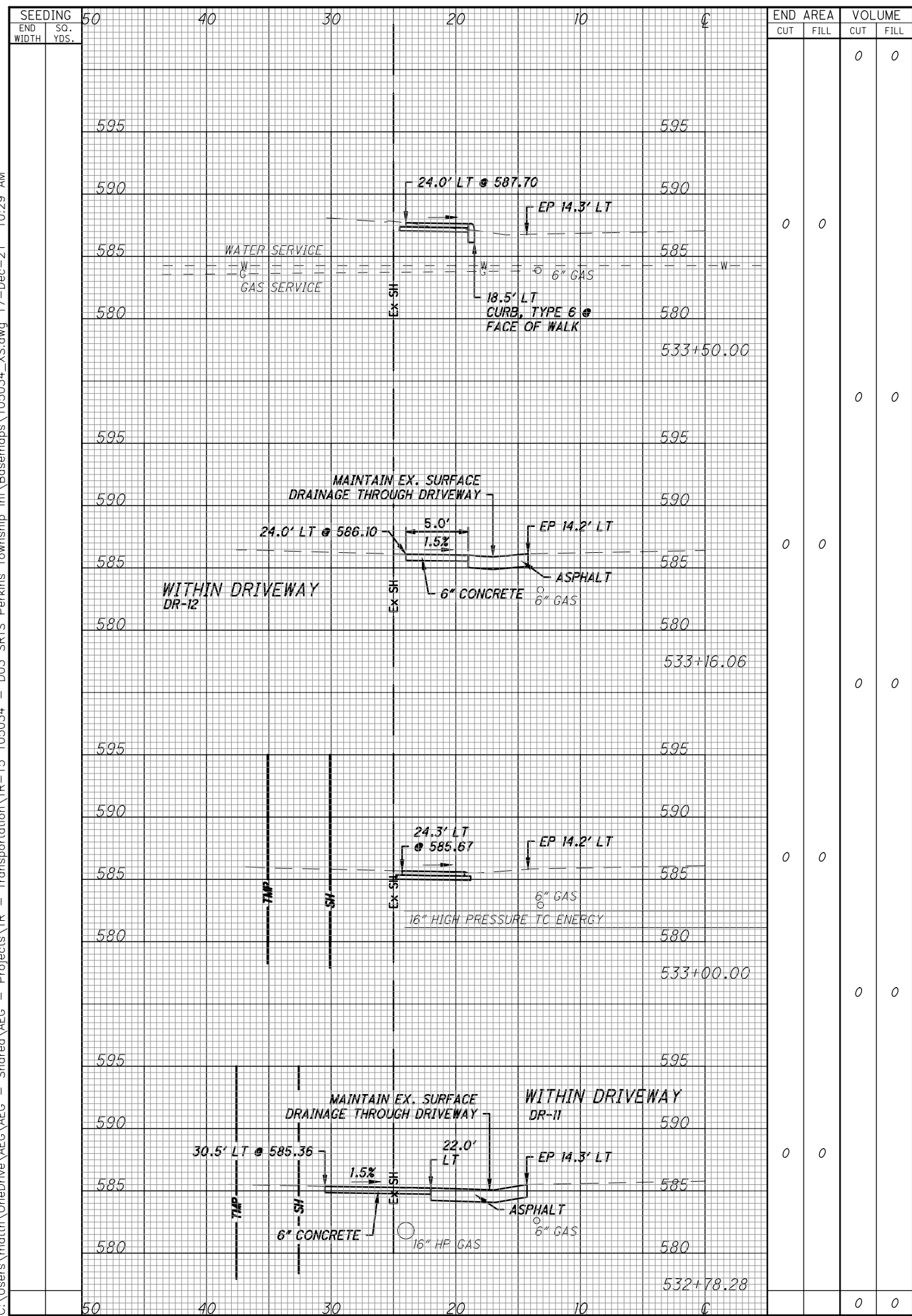
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CROSS SECTIONS - E. PERKINS AVENUE  
STA. 529+00 TO STA. 532+50

D03 SRTS PERKINS

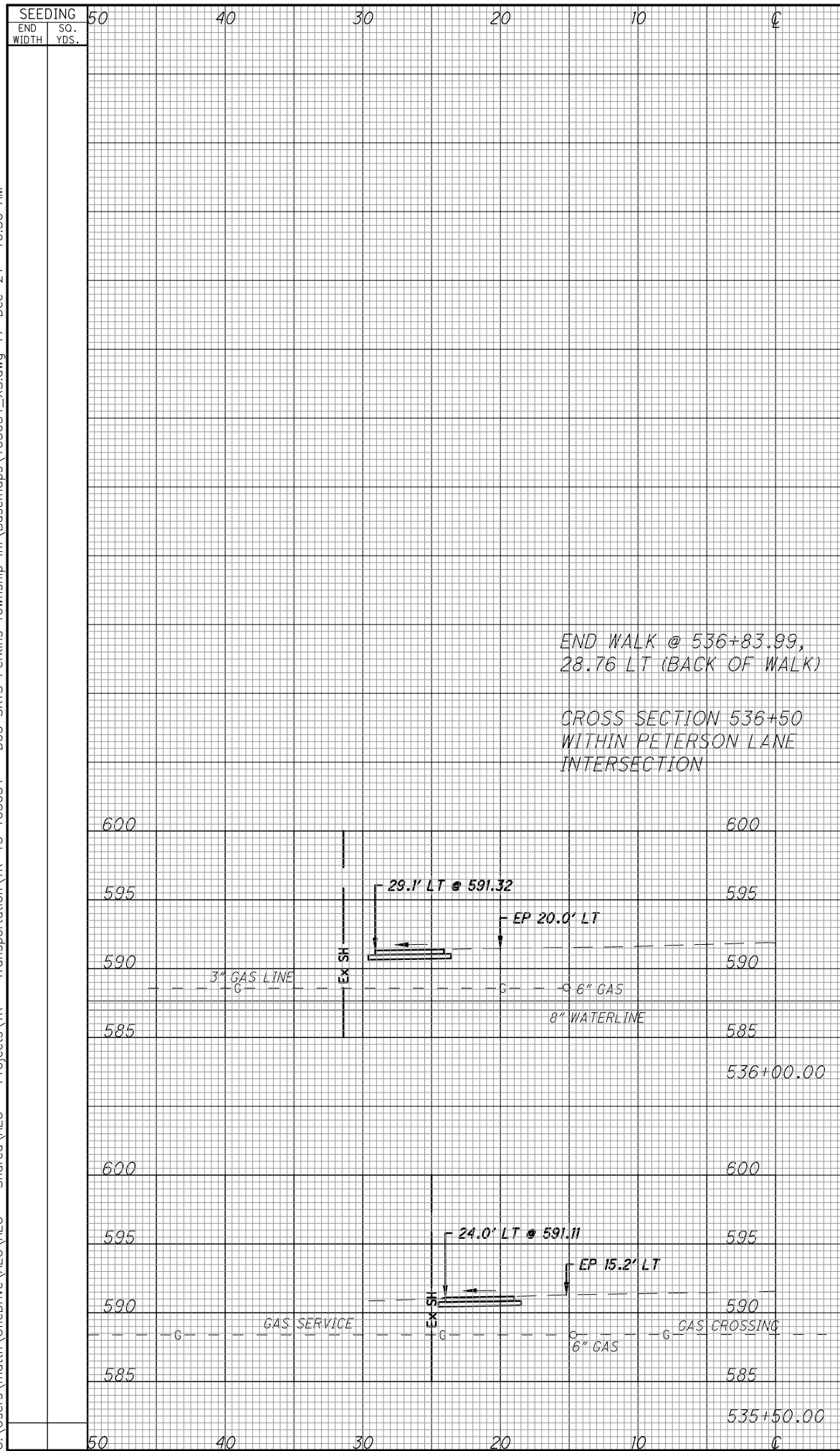
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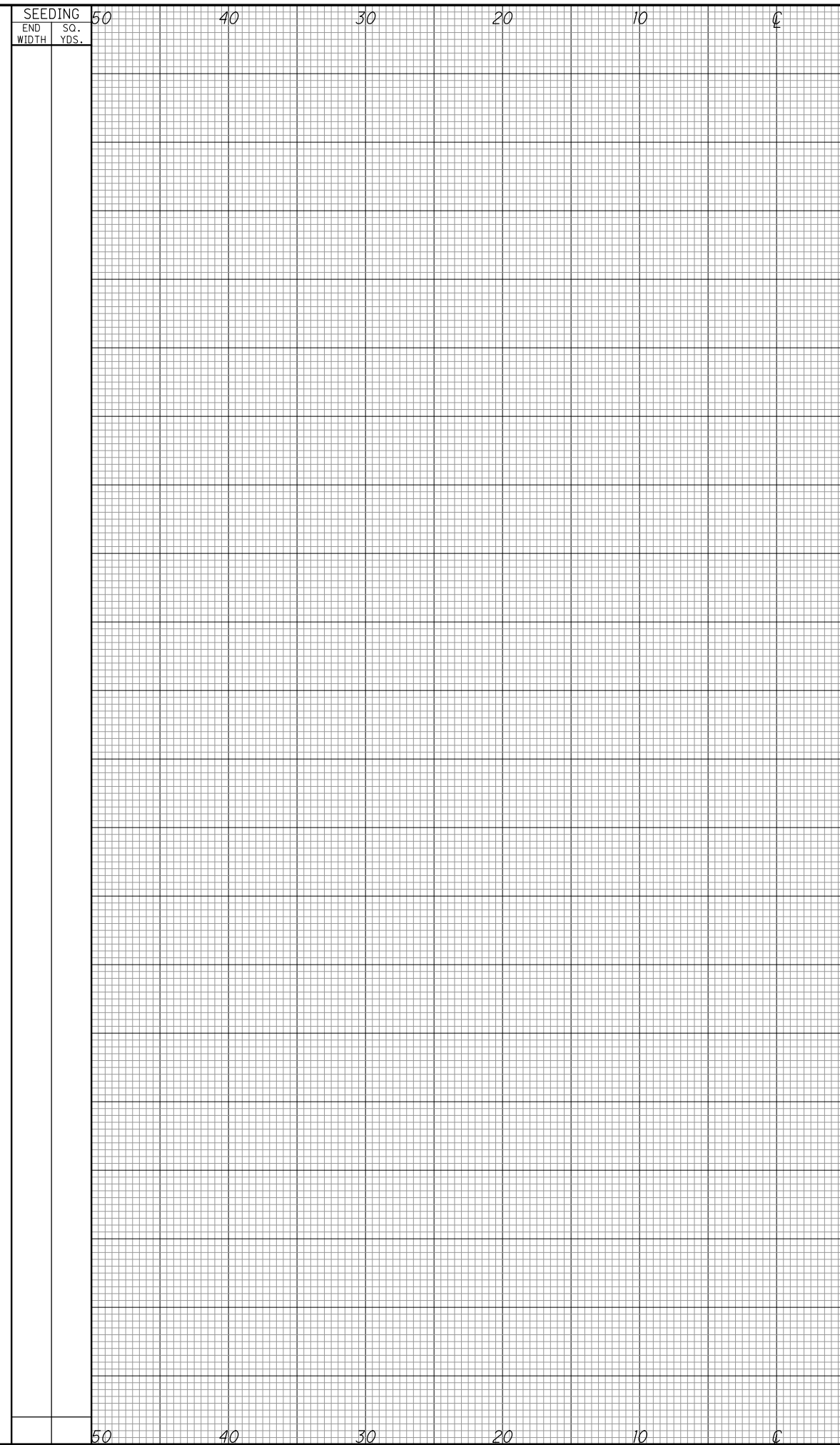
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STA. 532+78.28 TO STA. 535+00

D03 SRTS PERKINS

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
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40	0	0	0	0	0
30	0	0	0	0	0
20	0	0	0	0	0
10	0	0	0	0	0
0	0	0	0	0	0



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL
50	0	0	0	0	0
40	0	0	0	0	0
30	0	0	0	0	0
20	0	0	0	0	0
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0	0	0	0	0	0

**CROSS SECTIONS - E. PERKINS AVENUE**  
**STA. 535+50 TO STA. 536+00**

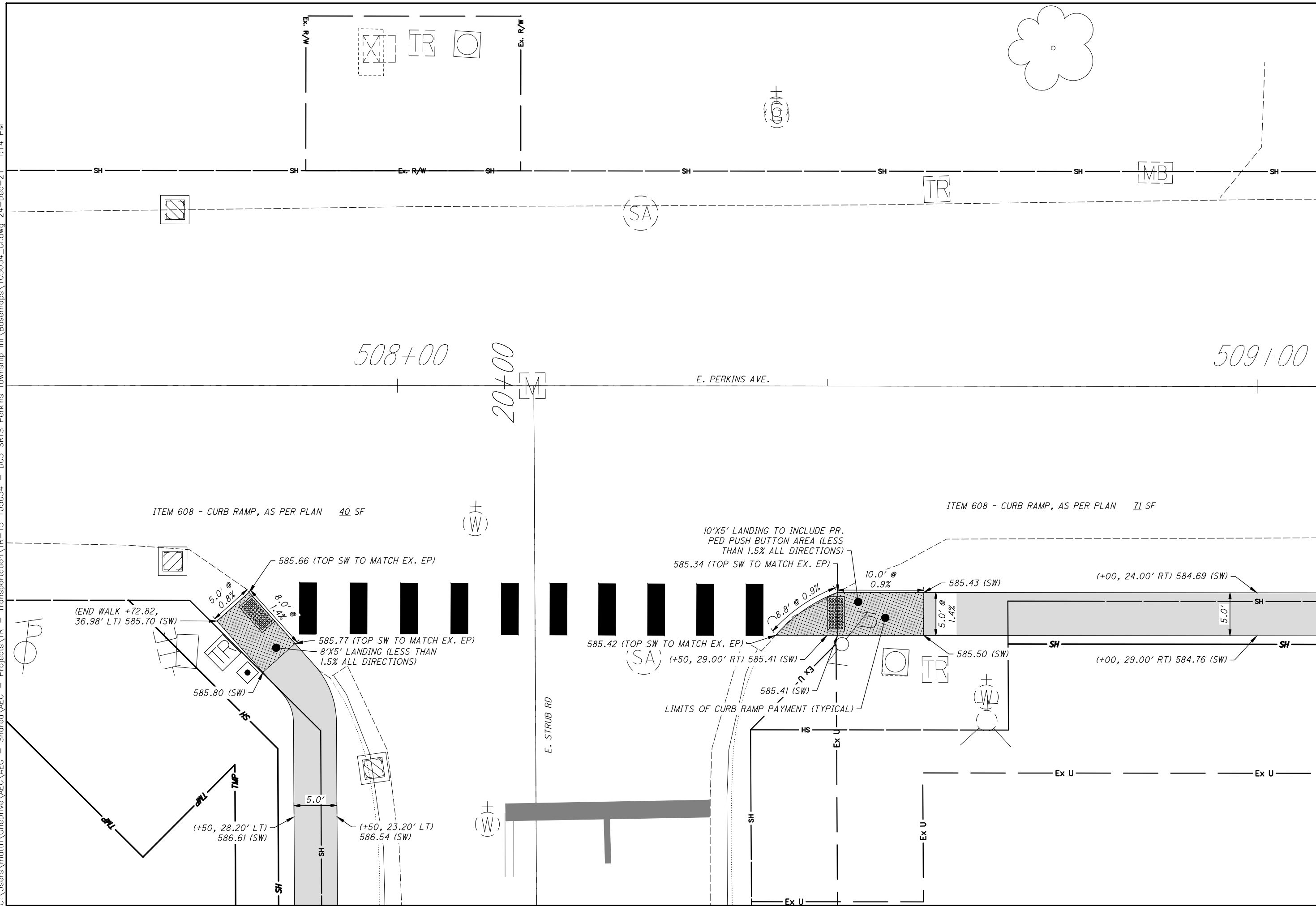
**D03 SRTS PERKINS**

CROSS SECTION TOTALS CARRIED TO THE GENERAL SUMMARY:

52	46
----	----

36  
79

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CALCULATED  
M/DH  
CHECKED  
TAB

0 5 10  
2.5" = 10'  
HORIZONTAL  
SCALE IN FEET

**CURB RAMP PLAN SHEET**  
**E. STRUB RD. AND E. PERKINS AVE.**

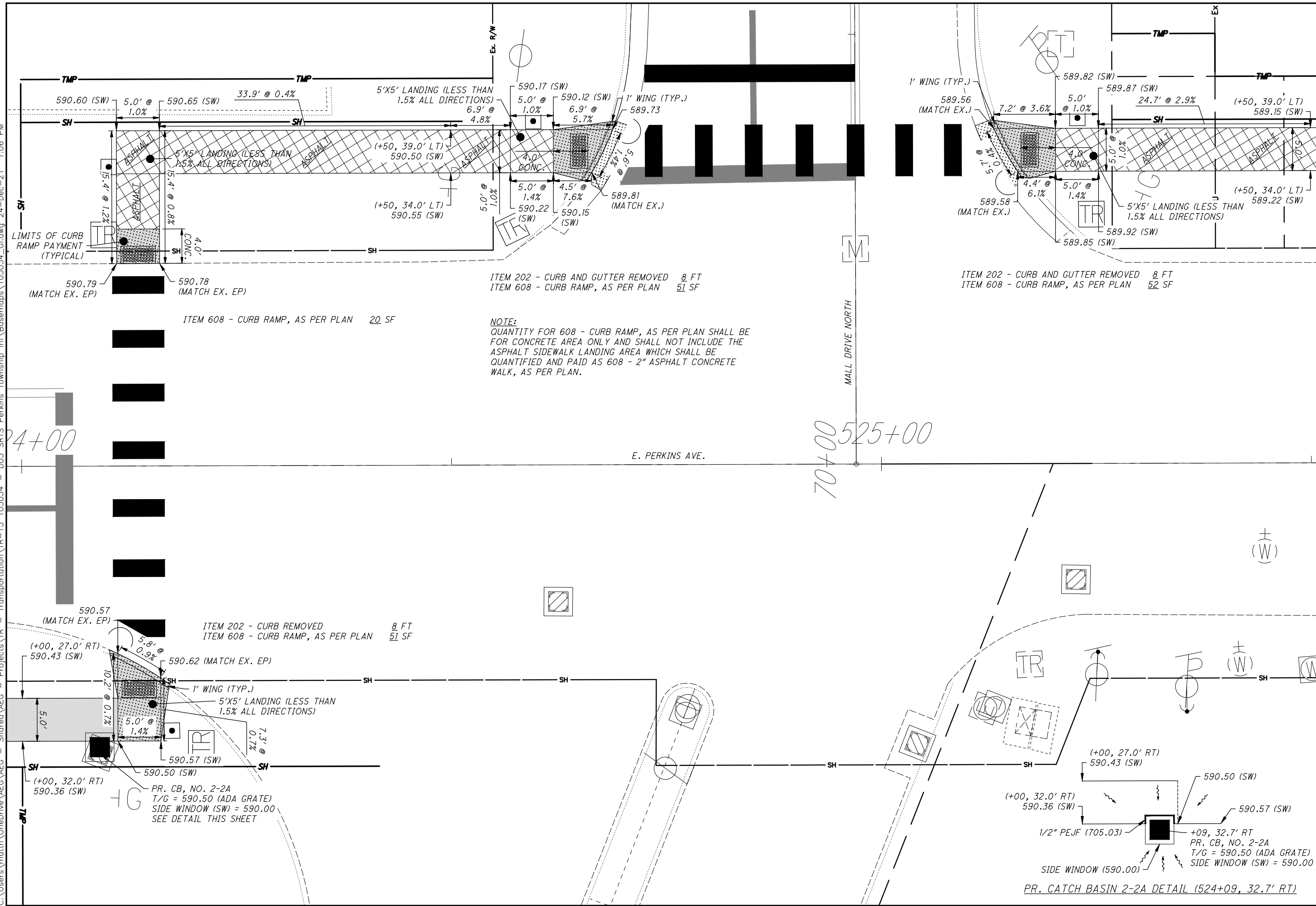
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CALCULATED  
MIDH  
CHECKED  
TAB

**CURB RAMP PLAN SHEET**  
**E. PERKINS AVE. AND MALL DRIVE NORTH**

**D03 SRTS PERKINS**



590.60 (SW) 5.0' @ 1.0% 590.65 (SW) 33.9' @ 0.4%  
5'X5' LANDING (LESS THAN 1.5% ALL DIRECTIONS)  
590.50 (SW) (+50, 39.0' LT)  
590.55 (SW) (+50, 34.0' LT)  
590.79 (MATCH EX. EP) 590.78 (MATCH EX. EP)  
ITEM 608 - CURB RAMP, AS PER PLAN 20 SF

590.17 (SW) 5.0' @ 1.0% 590.12 (SW) 6.9' @ 5.7%  
590.22 (SW) 5.0' @ 1.4% 590.15 (SW) 4.5' @ 7.6%  
589.81 (MATCH EX.)  
ITEM 202 - CURB AND GUTTER REMOVED 8 FT  
ITEM 608 - CURB RAMP, AS PER PLAN 51 SF

**NOTE:**  
QUANTITY FOR 608 - CURB RAMP, AS PER PLAN SHALL BE FOR CONCRETE AREA ONLY AND SHALL NOT INCLUDE THE ASPHALT SIDEWALK LANDING AREA WHICH SHALL BE QUANTIFIED AND PAID AS 608 - 2" ASPHALT CONCRETE WALK, AS PER PLAN.

589.82 (SW) 5.0' @ 1.0% 589.87 (SW) 24.7' @ 2.9%  
589.56 (MATCH EX.) 7.2' @ 3.6% 589.15 (SW) (+50, 39.0' LT)  
589.58 (MATCH EX.) 4.4' @ 6.1% 589.92 (SW) 5.0' @ 1.4%  
589.85 (SW) 5.0' @ 1.0% 589.22 (SW) (+50, 34.0' LT)  
ITEM 202 - CURB AND GUTTER REMOVED 8 FT  
ITEM 608 - CURB RAMP, AS PER PLAN 52 SF

590.57 (MATCH EX. EP) 5.8' @ 0.9% 590.62 (MATCH EX. EP)  
590.43 (SW) (+00, 27.0' RT) 10.2' @ 0.7% 590.57 (SW) 7.3' @ 0.7%  
590.50 (SW) (+00, 32.0' RT) 590.36 (SW)  
PR. CB, NO. 2-2A  
T/G = 590.50 (ADA GRATE)  
SIDE WINDOW (SW) = 590.00  
SEE DETAIL THIS SHEET

590.50 (SW) 590.57 (SW)  
590.43 (SW) (+00, 27.0' RT) 590.36 (SW) (+00, 32.0' RT)  
1/2" PEJF (T05.03) +09, 32.7' RT  
PR. CB, NO. 2-2A  
T/G = 590.50 (ADA GRATE)  
SIDE WINDOW (SW) = 590.00  
PR. CATCH BASIN 2-2A DETAIL (524+09, 32.7' RT)

4+00

70+00 525+00

E. PERKINS AVE.

MALL DRIVE NORTH



C:\Users\matth\OneDrive\AEG\AEG - Shared\AEG - Projects\TR - Transportation\TR-15 105034 - D03 SRTS Perkins Township\Inf\Basesmaps\105034\_GI.dwg 17-Dec-21 11:02 AM



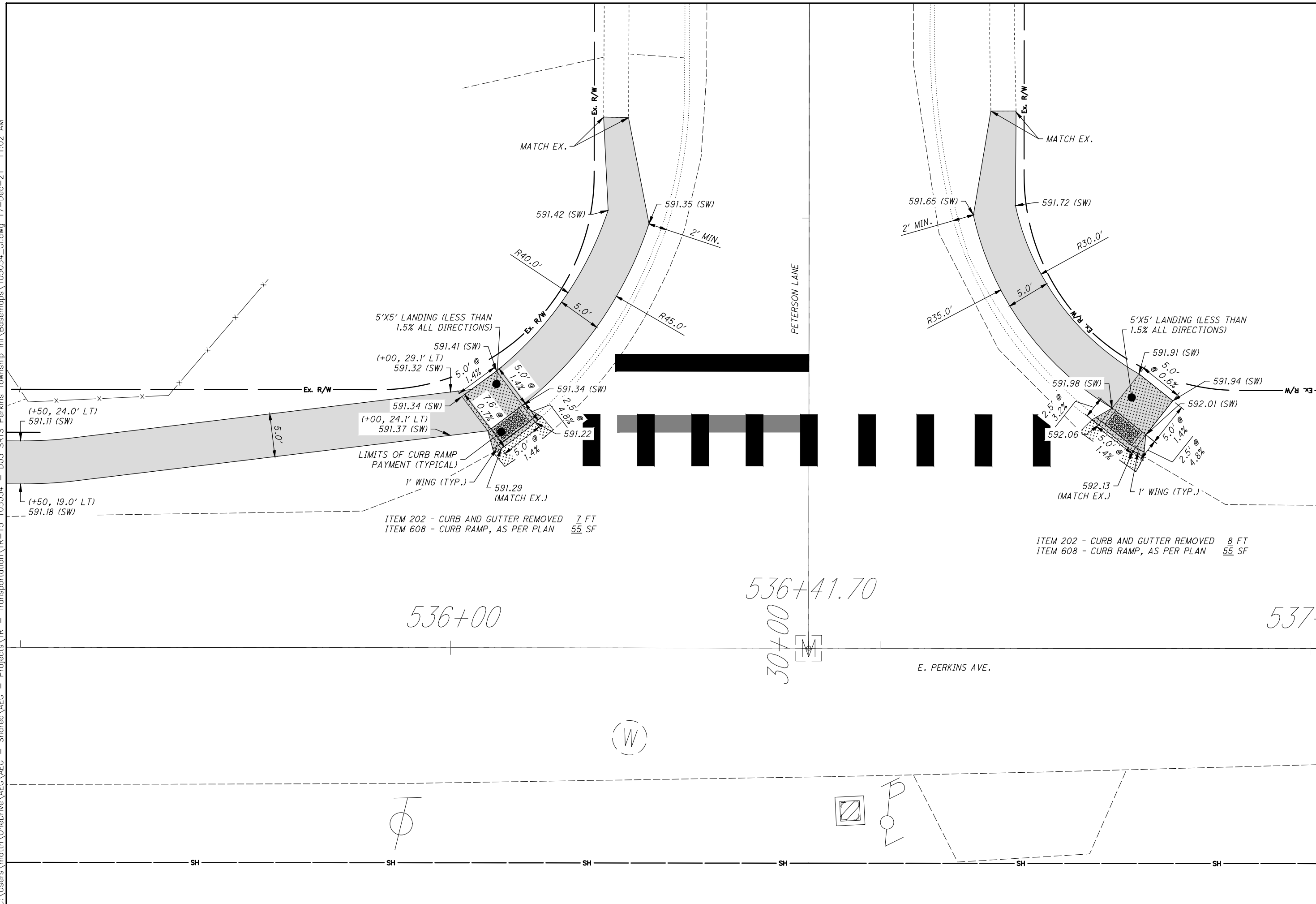
2.5'  
5'  
10'  
HORIZONTAL  
SCALE IN FEET

CALCULATED  
MDH  
CHECKED  
TAB

**CURB RAMP PLAN SHEET**  
**E. PERKINS AVE. AND PETERSON LN.**

**D03 SRTS PERKINS**

39  
79



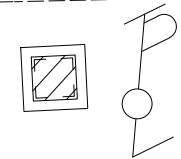
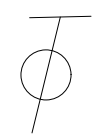
536+00

536+41.70

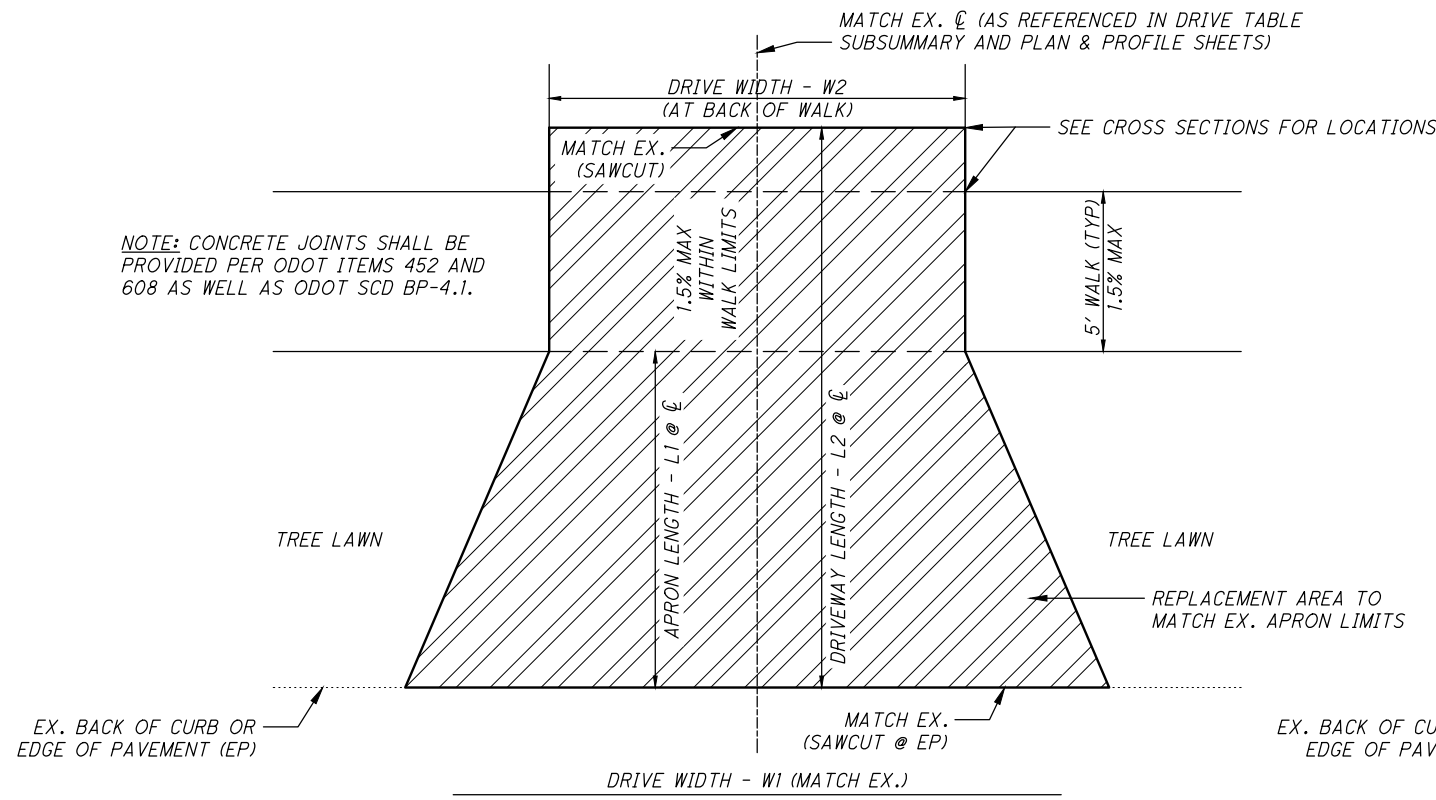
537

E. PERKINS AVE.

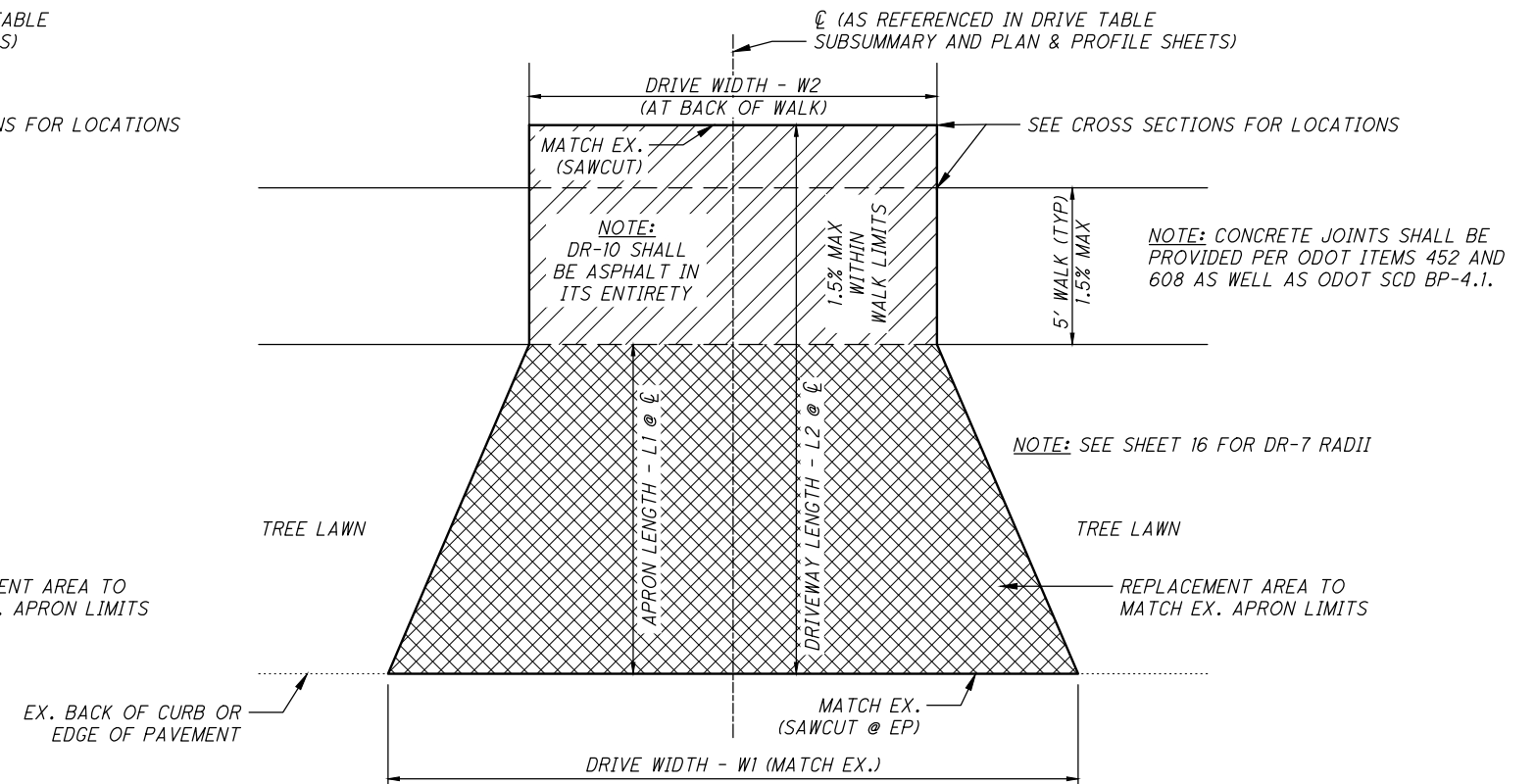
30+00



SH SH SH SH SH SH SH



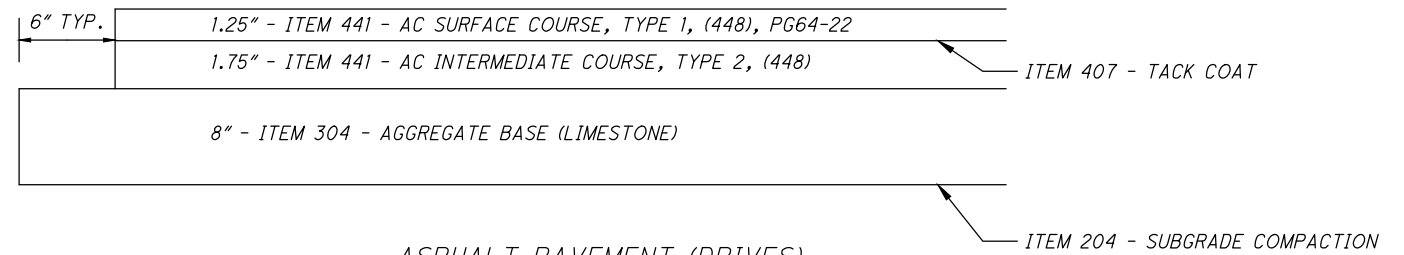
STRUB ROAD DRIVE DETAIL



PERKINS AVENUE DRIVE DETAIL

NOTES:

- SEE SHEET 41 FOR DRIVEWAY DETAIL FOR DR-8
- DRIVEWAY DR-10 SHALL BE ASPHALT IN ITS ENTIRETY (NO CONCRETE SIDEWALK SHALL BE CONSTRUCTED HERE)



ASPHALT PAVEMENT (DRIVES)  
TYPICAL SECTION  
(NOT TO SCALE)

LEGEND

- = 6" ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS (FOR RESIDENTIAL)
- = 8" ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS (FOR COMMERCIAL/SCHOOL)
- = ASPHALT PAVEMENT (SEE TYPICAL SECTION - THIS SHEET - SAME TREATMENT FOR ALL DRIVES REGARDLESS OF TYPE)

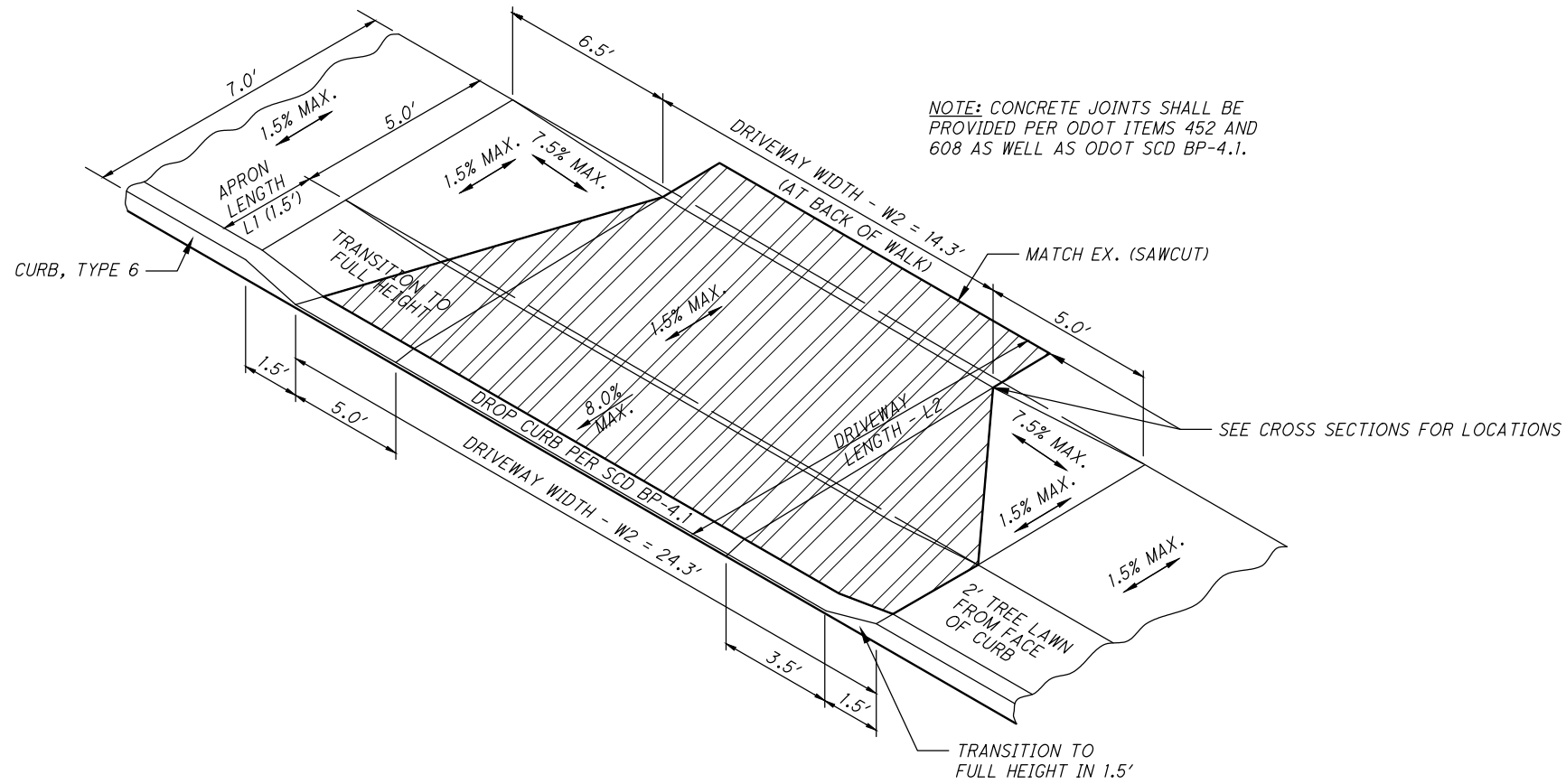
NOTES:

- SEE DRIVE TABLE SUBSUMMARY ON SHEET 10 FOR DIMENSIONS
- SLOPES (AS SHOWN IN CROSS SECTIONS) AND LENGTHS MAY BE FIELD ADJUSTED AT THE APPROVAL OF THE ENGINEER TO BETTER FIT FIELD CONDITIONS
- ITEM 204 - SUBGRADE COMPACTION REQUIRED PRIOR TO CONCRETE PLACEMENT
- ASPHALT JOINTS SHALL BE SEALED WITH HOT APPLIED LIQUID ASPHALT SEALANT.
- 1" PREFORMED FILLER EXPANSION (705.03) SHALL BE USED FOR CONCRETE JOINTS WHERE ABUTTING CURBS OR EX. CONCRETE.

CALCULATED 0 MDH CHECKED TAB


0 XX HORIZONTAL SCALE IN FEET XX

DRIVEWAY DETAILS



DR-8 DRIVE DETAIL  
 (PERKINS AVE. 517+82.4, RT)  
 (MATCH EX. DRIVEWAY @)

LEGEND

 = 6" ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS (FOR RESIDENTIAL)

NOTES:

- SEE DRIVE TABLE SUBSUMMARY ON SHEET 10 FOR DIMENSIONS
- SLOPES (AS SHOWN IN CROSS SECTIONS) AND LENGTHS MAY BE FIELD ADJUSTED AT THE APPROVAL OF THE ENGINEER TO BETTER FIT FIELD CONDITIONS
- ITEM 204 - SUBGRADE COMPACTION REQUIRED PRIOR TO CONCRETE PLACEMENT
- ASPHALT JOINTS SHALL BE SEALED WITH HOT APPLIED LIQUID ASPHALT SEALANT.
- 1" PREFORMED FILLER EXPANSION (705.03) SHALL BE USED FOR CONCRETE JOINTS WHERE ABUTTING CURBS OR EX. CONCRETE.

CALCULATED	0	XX
M/DH		XX
CHECKED		XX
TAB		XX

HORIZONTAL SCALE IN FEET

DRIVEWAY DETAILS

D03 SRTS PERKINS

Z:\Projects (U)\2020\20-061 Adaptive Engineering Group, LLC - Traffic Signal Modifications - ERI-TR7-3.75-4.49 PID 105034 - Sandusky\Stage 2 Plans\Stage 2 Files from Home\Stage 2 Plans\107761GN001

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 180 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS, AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY.

EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR. THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLER, CABINET, UNINTERRUPTIBLE POWER SUPPLY, VEHICLE DETECTION EQUIPMENT, LED LAMP UNITS, NETWORK AND COMMUNICATIONS/INTERCONNECT EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO ERIE COUNTY FOLLOWING ACCEPTANCE OF THE EQUIPMENT. THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

INSTALLATION LAYOUT

FURNISH AND PROVIDE AN OHIO LICENSED PROFESSIONAL SURVEYOR TO MARK AND LAYOUT THE TRAFFIC SIGNAL SUPPORTS AND ALL OTHER STATIONED SIGNAL ITEMS USING THE STATIONS AND OFFSETS PROVIDED IN THESE PLANS. HAVE THE SURVEYOR SET THE PROPER POLE AND CABINET FOUNDATION ELEVATIONS. HAVE THE ENGINEER APPROVE POLE FOUNDATION LOCATIONS AND ELEVATIONS PRIOR TO THE INSTALLATION OF ANY ITEM. INCUR COSTS FOR THIS SERVICE AND MAKE INCIDENTAL TO THE COST OF THE PROJECT OR PROVIDE UNDER THE "CONSTRUCTION LAYOUT STAKES" ITEM.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

BEFORE ANY WORK IS STARTED REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING SIGNAL/FLASHER INSTALLATIONS TO BE MAINTAINED. DURING THIS INSPECTION A WRITTEN RECORD OF THE CONDITION OF THE EXISTING SIGNAL/FLASHER SHALL BE MADE BY THE STATE'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL ITEMS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF THE STATE, THE MAINTAINING AGENCY, AND THE CONTRACTOR.

AFTER THE REPORT HAS BEEN SIGNED BY ALL PARTIES, THE SIGNAL INSTALLATION SHALL BE TURNED OVER TO THE CONTRACTOR, WHO SHALL THEN BE REQUIRED TO MAINTAIN THE TRAFFIC SIGNAL INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL INSTALLATIONS ONCE THE SIGNAL HAS BEEN AFFECTED, WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

A) EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS INCLUDING DAMAGE DUE TO UTILITY RELOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION AT AN INTERSECTION FROM THE TIME THE INSTALLATION IS FIRST DISTURBED, WHETHER FROM UTILITY WORK OR FROM THE CONTRACTOR UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.

B) NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE THE MAINTAINING AGENCY AND THE PROJECT ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONT.)

DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. THE CONTRACTOR SHALL HAVE THE MALFUNCTION CORRECTED AND/ OR REPAIRED TO THE SATISFACTION OF THE ENGINEER WITHIN EIGHT HOURS OF THE NOTIFICATION OR LIQUIDATED DAMAGES OF \$500 PER HOUR SHALL BE ASSESSED TO THE CONTRACTOR.

ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE PROJECT ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGES.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT, EXCEPT POLES AND CONTROL EQUIPMENT, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE PROJECT ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN EIGHT HOURS AFTER THE CONTRACTOR IS NOTIFIED OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED EIGHT HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION, THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGES AS PER 107.15.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE PROJECT ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO PERKINS TOWNSHIP OR ERIE COUNTY FOR POLICE AND MAINTENANCE SERVICES SHALL BE DEDUCTED FROM MONEYS DUE OR TO BECOME DUE TO THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15. IN ADDITION TO THESE BILLINGS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES OF \$500/HOUR FOR EACH HOUR BEYOND THE ALLOWED EIGHT HOUR PERIOD THAT THE SIGNAL IS INOPERATIVE.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICES ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A MUTUALLY ACCEPTABLE AGREEMENT WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE.

THE CONTRACTOR SHALL INFORM THE PROJECT ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM.

WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED FOUR HOURS AND SHALL NOT INCLUDE THE HOURS OF 9:00PM TO 7:00AM, MONDAY THRU SATURDAY, ALL DAY SUNDAY AND HOLIDAYS WITHOUT WRITTEN PERMISSION FROM ERIE COUNTY OR PERKINS TOWNSHIP. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING: 1. TIME OF NOTIFICATION OF MALFUNCTION; 2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION; 3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED; 4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE; AND 5. TIME OF COMPLETION OF REPAIR AND SYSTEM RESTORED TO FULL SERVICE. A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

GROUNDING AND BONDING

THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND THE HL AND TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

1. ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.
  - a. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.
  - b. WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05). THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.
  - c. METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.
  - d. IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.
  - e. IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.
  - f. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTION, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.
2. CONDUITS
  - a. THE 725.04 CONDUIT SHALL HAVE GROUNDING BUSHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING THE MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.
  - b. THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.
  - c. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
  - d. METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS. UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
3. WIRE FOR GROUNDING AND BONDING.
  - a. USE INSULATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:
    - USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER CABINETS.
    - USE A MINIMUM 8 AWG BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE.
    - USE A MINIMUM 8 AWG BETWEEN THE "PREPARE TO STOP WHEN FLASHING" INSTALLATION (INCLUDING SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.I ABOVE
    - THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPE(S). 4 AWG OR LARGER, INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS POINTS

CALCULATED  
JAT  
CHECKED  
MWS

TRAFFIC SIGNAL  
GENERAL NOTES

D03 SRTS PERKINS

GROUNDING AND BONDING (CONT.)

- b. IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE SIZE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.
- 4. GROUND ROD.
  - a. A 3/4 INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
  - b. THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED COPPER.
- 5. THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLY POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

COND. NO.	COLOR	VEHICLE SIGNAL	PEDESTRIAN SIGNAL
1	BLACK	GREEN BALL	#1 WALK
2	WHITE	AC NEUTRAL	AC NEUTRAL
3	RED	RED BALL	#1 DW/FDW
4	GREEN	EQUIP GND	EQUIP GND
5	ORANGE	YELLOW BALL	#2 DW/FDW
6	BLUE	GREEN ARROW	#2 WALK
7	WHITE/BLK ST	YELLOW ARROW	NOT USED

- 6. POWER SERVICE AND DISCONNECT SWITCH.
  - a. AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHALL BE AN EXOTHERMIC WELD BUTT SPLICE.
  - b. THE SERVICE NEUTRAL(AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT SWITCH.
    - NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.
    - IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH. EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.
- 7. PAYMENT.
  - a. ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

ITEM 632 - PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN

- IN ADDITION TO THE REQUIREMENTS OF C&MS SECTIONS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL APPLY:
1. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET I.T.E. SPECIFICATIONS.
  2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY THE USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
  3. ATTACH PEDESTRIAN SIGNALS TO NON-DECORATIVE SIGNAL SUPPORTS USING THE OPTIONAL 2-PIECE HINGED BRACKET WITH STAINLESS STEEL FASTENERS AS PER TC-85.10. DO NOT BAND PEDESTRIAN SIGNAL HOUSING TO STEEL POLES.
  4. THE PEDESTRIAN SIGNAL HEAD SHALL BE OF THE LED COUNTDOWN TYPE.
  5. NEW ATTACHMENT HARDWARE AND FITTINGS SHALL BE USED.
  6. THE LIGHT EMITTING DIODE (LED) MODULES SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE THE MUNICIPALITY, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

PAYMENT FOR ITEM 632 - PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, AS PER PLAN SHALL BE MADE FOR THE NUMBER OF COMPLETE SIGNAL HEADS FURNISHED AND INSTALLED, INCLUDING LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE.

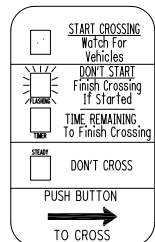
ITEM 632 - PEDESTRIAN PUSHBUTTON, AS PER PLAN

- IN ADDITION TO THE REQUIREMENTS OF 632 AND 732.06, PROVIDE PEDESTRIAN PUSHBUTTONS WITH THE FOLLOWING FEATURES:
- FURNISH PUSHBUTTONS THAT ARE RATED AS WATERPROOF AND WHICH INCORPORATE A SOLID NEOPRENE RUBBER GASKET TO SEAL ITSELF AGAINST MOISTURE. FURNISH PUSHBUTTONS WITH PIEZO DRIVEN SOLID-STATE SWITCHES, INDICATOR LIGHTS AND AUDIBLE TONES.
- SEAL THE PUSHBUTTON HOUSING TO THE SIGNAL SUPPORT, PEDESTAL OR POLE WITH SILICONE SEALANT.
- PAYMENT FOR ITEM 632 - PEDESTRIAN PUSHBUTTON, AS PER PLAN SHALL BE MADE FOR THE NUMBER OF COMPLETE PEDESTRIAN PUSHBUTTON FURNISHED, INSTALLED AND TESTED, INCLUDING LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE AT LOCATIONS SHOWN IN THE PLAN.

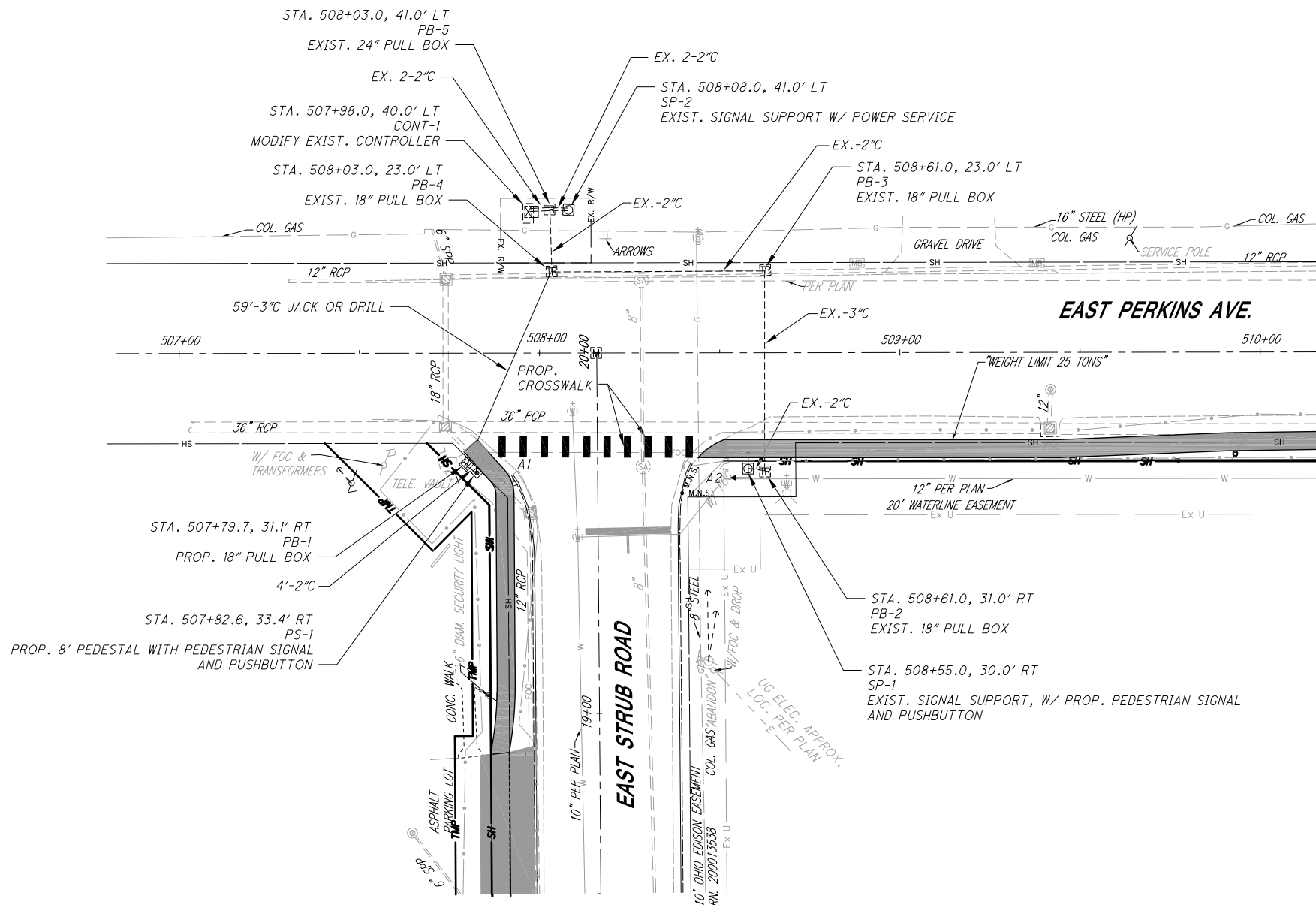
ITEM 633 - CONTROLLER MISC.: MODIFY EXISTING CONTROLLER

- MODIFY THE EXISTING CONTROLLER BY ADDING WIRING, CIRCUITS AND PROGRAMING, AS TO MAKE IT FULLY FUNCTIONAL AND OPERATIONAL AS SHOWN IN THESE PLANS. PHASING AND TIMING SHALL BE MODIFIED TO MEET REQUIRMENTS IN THE PLANS. THIS INCLUDES, BUT IS NOT LIMITED TO FURNISHING AND INSTALLING ADDITIONAL LOAD SWITCHES. THE CONFLICT MONITOR SHALL BE PROGRAMMED AS NECESSARY.
- PAYMENT FOR ACCEPTED QUANTITIES OF "ITEM 633 - CONTROLLER MISC.: MODIFY EXISTING CONTROLLER" SHALL BE AT THE CONTRACT UNIT PRICE FOR EACH CONTROLLER MODIFIED BY THE CONTRACTOR IN PLACE, WIRED, TESTED AND ACCEPTED.

PEDESTRIAN SIGNS



R10-3E-9  
1 - LEFT ARROWS  
1 - RIGHT ARROWS



LEGEND

	PROP	EXIST
SIGNAL SUPPORT POLE		
PEDESTRIAN SIGNAL		
PEDESTRIAN PUSH BUTTON		
PEDESTAL SUPPORT		
CONTROLLER CABINET AND WORK PAD		
TRAFFIC PULL BOX		

MAG NAIL SET IN BACK OF CURB N: 641821.96  
E: 1922794.48 ELV: 586.12

BM: TOP OF NORTHEAST BOLT OF SIGNAL SUPPORT POLE ELV: 586.59'  
POLE LOCATED ON S.E. CORNER

NOTE:  
ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN DRAWN FROM RECORD INFORMATION AND OR FROM UTILITY COMPANY LOCATIONS, AND SHOULD BE CONSIDERED APPROXIMATE.

NOTE:  
SHOULD CONFLICTS WITH OVERHEAD OR UNDERGROUND UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR MUST COORDINATE AND COOPERATE WITH THE UTILITY COMPANIES TO ALLEVIATE THE ISSUE.

SIGNAL HEADS



PEDESTRIAN HEADS (LED, COUNTDOWN, TYPE D2)  
QTY = 2



CALCULATED JAT  
CHECKED MWS

TRAFFIC CONTROL PLAN  
EAST PERKINS AVE. & EAST STRUB ROAD

D03 SRTS PERKINS



**SIGNAL TIMING CHART**

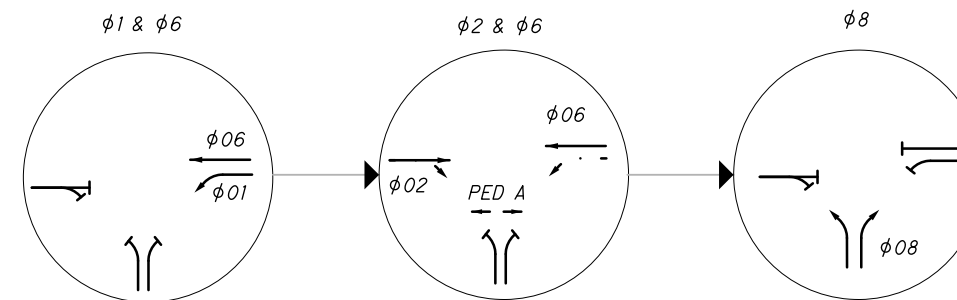
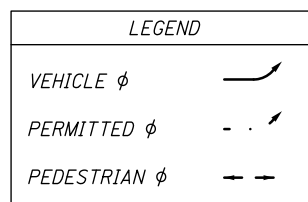
INTERSECTION: Perkins Ave & Strub Rd		MAINTAINING AGENCY: Erie County							
START UP		DUAL ENTRY: Yes		PHASES: 2,6					
START IN: FLASH		REST IN RED: RING 1		RING 2					
TIME FOR FLASH OR ALL RED: 7		OVERLAP		A	B	C	D		
FIRST PHASE(S): 2 6		PHASES		-	-	-	-		
COLOR DISPLAYED: G		CONTROLLER MOVEMENT NO.							
INTERVAL OR FEATURE		1	2	-	-	-	6	-	8
INTERSECTION MOVEMENT (PHASE)		WB L	EB	-	-	-	WB	-	NB
MINIMUM GREEN (INITIAL) (SEC.)		7	20	-	-	-	20	-	10
ADDED INITIAL *(SEC./ACTUATION)		-	-	-	-	-	-	-	-
MAXIMUM INITIAL *(SEC.)		-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP) (SEC.)		2.5	4.0	-	-	-	4.0	-	4.0
TIME BEFORE REDUCTION *(SEC.)		-	-	-	-	-	-	-	-
MINIMUM GAP *(SEC.)		-	-	-	-	-	-	-	-
TIME TO REDUCE *(SEC.)		-	-	-	-	-	-	-	-
MAXIMUM GREEN I (SEC.)		15	55	-	-	-	60	-	25
MAXIMUM GREEN II (SEC.)		15	55	-	-	-	60	-	25
YELLOW CHANGE (SEC.)		3.0	4.0	-	-	-	4.0	-	3.5
ALL RED CLEARANCE (SEC.)		2.0	2.0	-	-	-	2.0	-	2.0
WALK (SEC.)		-	8	-	-	-	-	-	-
PEDESTRIAN CLEARANCE (SEC.)		-	15	-	-	-	-	-	-
RECALL	MAXIMUM (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	MINIMUM (ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	PEDESTRIAN (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY (ON/OFF)		OFF	OFF	-	-	-	OFF	-	OFF

\*VOLUME DENSITY CONTROLS

**NOTES:**

- COUNTDOWN PEDESTRIAN SIGNALS SHALL GO TO ZERO ON YELLOW PER OMTCD FIGURE 4E-2.

**PHASING DIAGRAM**



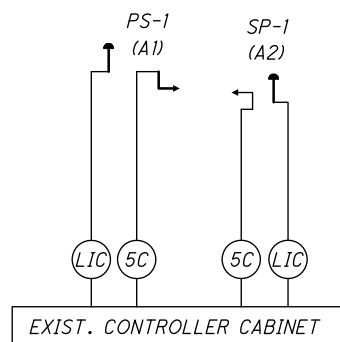
**ESTIMATED QUANTITIES**

ITEM	QTY	UNIT	DESCRIPTION
625	4	FOOT	CONDUIT, 2", 725.04
625	59	FOOT	CONDUIT, JACKED OR DRILLED, 725.04, SIZE: 3"
625	4	FOOT	TRENCH
625	1	EACH	PULL BOX, 725.08, 18"
625	1	EACH	GROUND ROD
625	4	FOOT	UNDERGROUND WARNING/MARKING TAPE
632	2	EACH	PEDESTRIAN SIGNAL HEAD, (LED), (COUNTDOWN), TYPE D2, AS PER PLAN
632	2	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	310	FOOT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	1	EACH	PEDESTAL FOUNDATION
632	300	FOOT	LOOP DETECTOR LEAD-IN CABLE
632	1	EACH	PEDESTAL, 8", TRANSFORMER BASE
633	1	EACH	CONTROLLER ITEM MISC.: MODIFY EXISTING CONTROLLER

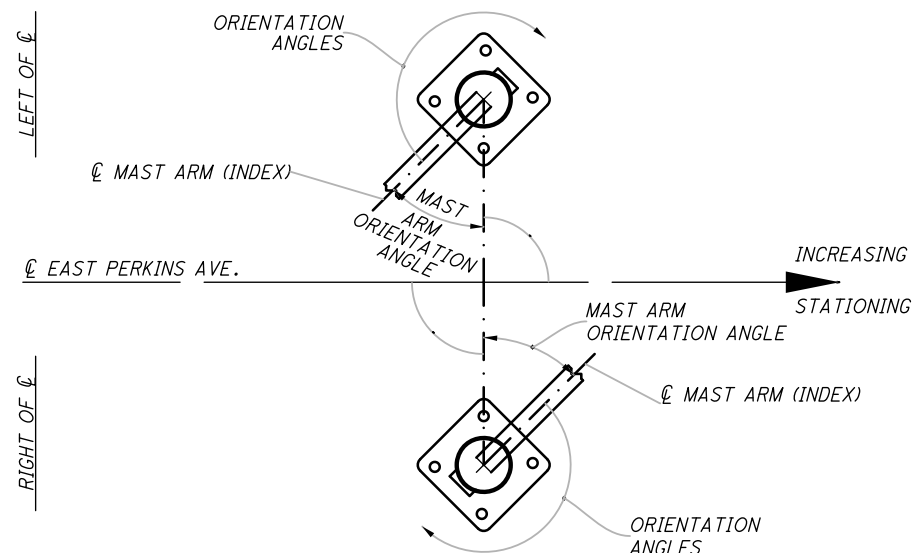
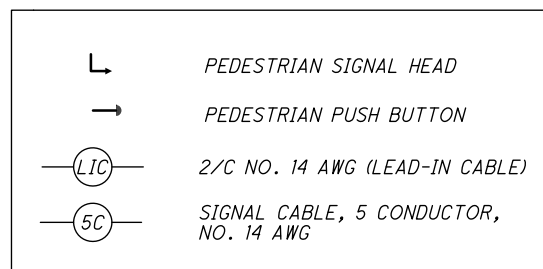
**FIELD WIRING HOOK-UP CHART**

PEDESTRIAN MOVEMENTS			
PED A	W	Ø2 PED/LS13 G	OUT
SOUTH	DW	Ø2 PED/LS13 R	

**WIRING DIAGRAM**



**LEGEND**



**POLE ORIENTATION**

**MAST ARM & PEDESTAL TABLE**

SUPPORT NO.	STATION	OFFSET	ELEVATION		POLE HEIGHT	ORIENTATION ANGLES		
			A	B		PEDESTRIAN SIGNAL	PEDESTRIAN BUTTON	HANDHOLE
SP-1	508+55.0	30.0' R	-	-	EX	225	45	EX
PS-1	507+82.6	33.4' R	-	-	8	0	0	180

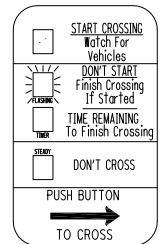


TRAFFIC SIGNAL PLAN DETAILS  
EAST PERKINS AVE. & EAST STRUB ROAD

D03 SRTS PERKINS

Z:\Projects (U)\2020\20-061 Adaptive Engineering Group, LLC - Traffic Signal Modifications - ERI-TR7-3.75-4.49 PID 105034 - Sandusky\Stage 2 Files from Home\Stage 2 Plans\Stage 2 Plans\105034\002-Rev.dwg - Dec 17, 2021-2:45:07pm Plotted By : gao

**PEDESTRIAN SIGNS**

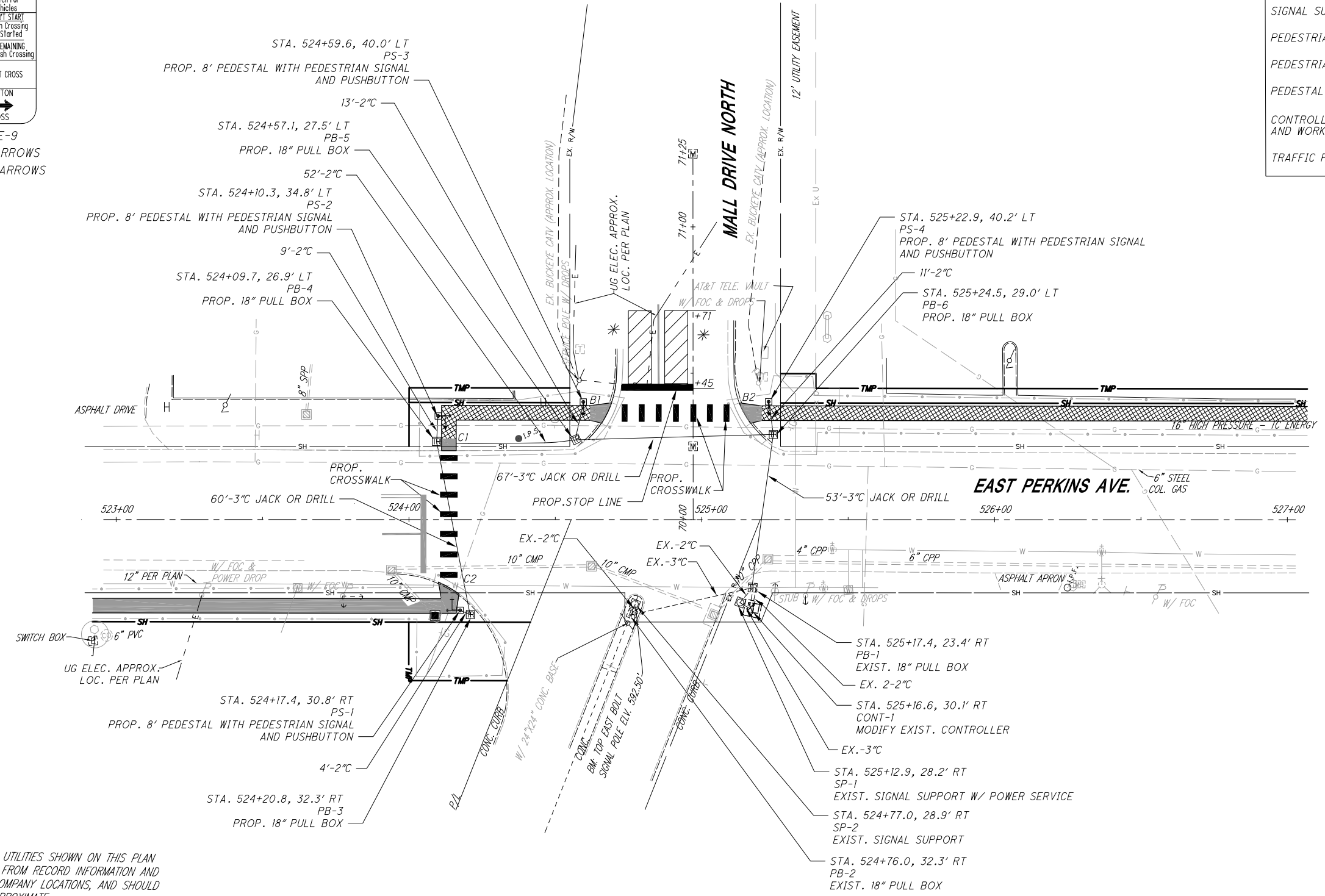


R10-3E-9  
2 - LEFT ARROWS  
2 - RIGHT ARROWS

\* 8' X 25' VIDEO DETECTION ZONES ON MALL DRIVE NORTH TO BE RE-ESTABLISHED DUE TO NEW STOP LINE LOCATION. COST WILL BE COVERED UNDER "SIGNALIZATION MISC.": RE-ESTABLISH VIDEO DETECTION ZONES".

LEGEND	
PROP	EXIST
SIGNAL SUPPORT POLE	
PEDESTRIAN SIGNAL	
PEDESTRIAN PUSH BUTTON	
PEDESTAL SUPPORT	
CONTROLLER CABINET AND WORK PAD	
TRAFFIC PULL BOX	

IRON PIN SET AND CAPPED  
KEM CONTROL N: 641148.68  
E: 1924243.53 ELV: 591.08



NOTE:  
ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN DRAWN FROM RECORD INFORMATION AND OR FROM UTILITY COMPANY LOCATIONS, AND SHOULD BE CONSIDERED APPROXIMATE.

NOTE:  
SHOULD CONFLICTS WITH OVERHEAD OR UNDERGROUND UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR MUST COORDINATE AND COOPERATE WITH THE UTILITY COMPANIES TO ALLEVIATE THE ISSUE.

**SIGNAL HEADS**



PEDESTRIAN HEADS (LED, COUNTDOWN, TYPE D2)  
QTY = 4



CALCULATED JAT CHECKED MWS

**TRAFFIC CONTROL PLAN EAST PERKINS AVE. & MALL DRIVE**

**D03 SRPTS PERKINS**

SIGNAL TIMING CHART

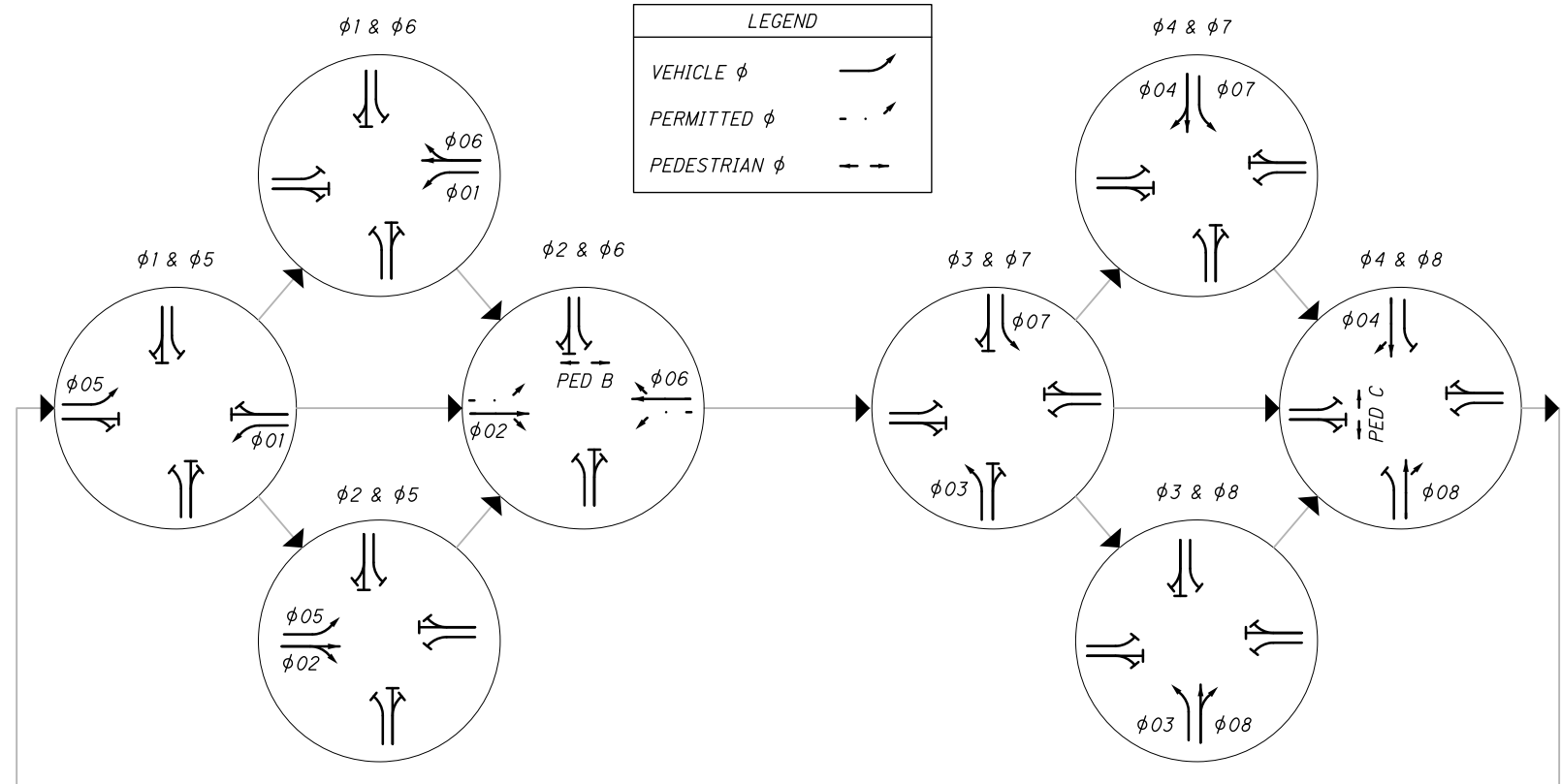
INTERSECTION: Perkins Ave & Mall Drive		MAINTAINING AGENCY: Erie County						
START UP	DUAL ENTRY:	Yes	PHASES: 2,4,6,8					
	REST IN RED:	RING 1 -	RING 2 -					
START IN:	FLASH	7	6					
	TIME FOR FLASH OR ALL RED:	2	6					
TIME FOR FLASH OR ALL RED:	7							
FIRST PHASE(S):	2	6						
COLOR DISPLAYED:	G							
INTERVAL OR FEATURE	CONTROLLER MOVEMENT NO.							
INTERSECTION MOVEMENT (PHASE)	1	2	3	4	5	6	7	8
DIRECTION	WBL	EB	NBL	SB	EBL	WB	SDL	NB
MINIMUM GREEN (INITIAL) (SEC.)	7	20	7	10	7	20	7	10
ADDED INITIAL *(SEC./ACTUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL *(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP) (SEC.)	2.5	4.0	2.5	4.0	2.5	4.0	2.5	4.0
TIME BEFORE REDUCTION *(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP *(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE *(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I (SEC.)	15	45	15	30	15	45	15	30
MAXIMUM GREEN II (SEC.)	15	45	15	30	15	45	15	30
YELLOW CHANGE (SEC.)	3.0	4.0	3.0	3.5	3.0	4.0	3.0	3.5
ALL RED CLEARANCE (SEC.)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
WALK (SEC.)	-	-	-	7	-	7	-	-
PEDESTRIAN CLEARANCE (SEC.)	-	-	-	11	-	10	-	-
RECALL	MAXIMUM (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	MINIMUM (ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF
	PEDESTRIAN (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF
MEMORY (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

\*VOLUME DENSITY CONTROLS

NOTES:

- COUNTDOWN PEDESTRIAN SIGNALS SHALL GO TO ZERO ON YELLOW PER OMUTCD FIGURE 4E-2.

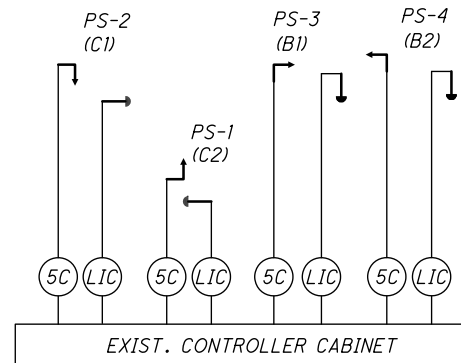
PHASING DIAGRAM



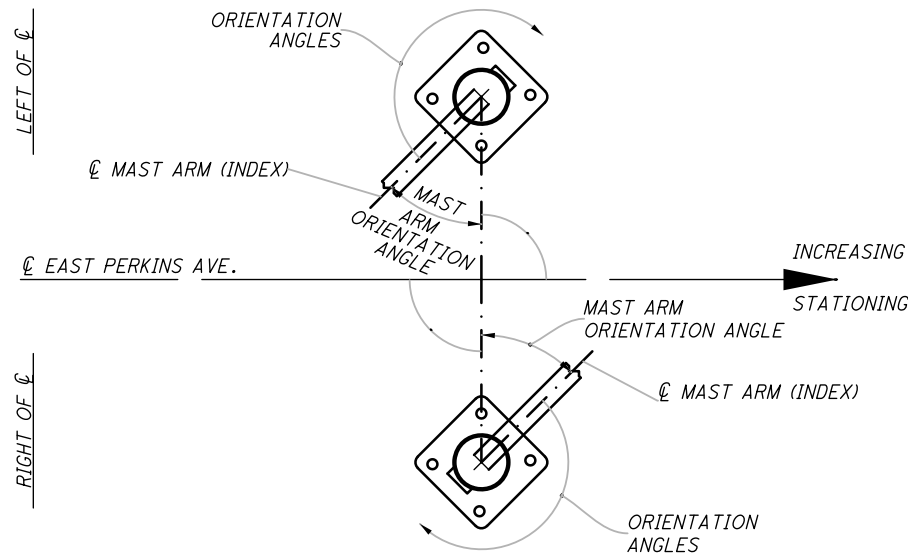
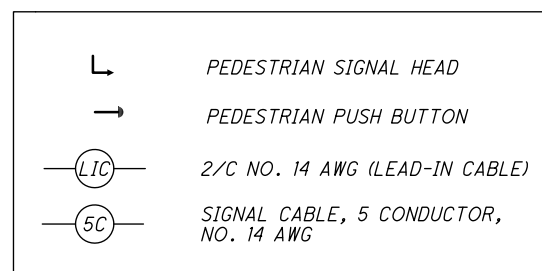
FIELD WIRING HOOK-UP CHART

PEDESTRIAN MOVEMENTS			
PED B NORTH	W	Ø6 PED/LS14 G	OUT
	DW	Ø6 PED/LS14 R	
PED C WEST	W	Ø4 PED/LS15 G	OUT
	DW	Ø4 PED/LS15 R	

WIRING DIAGRAM



LEGEND



POLE ORIENTATION

ESTIMATED QUANTITIES

ITEM	QTY	UNIT	DESCRIPTION
625	89	FOOT	CONDUIT, 2", 725.04
625	180	FOOT	CONDUIT, JACKED OR DRILLED, 725.04, SIZE: 3"
625	89	FOOT	TRENCH
625	4	EACH	PULL BOX, 725.08, 18"
625	4	EACH	GROUND ROD
625	89	FOOT	UNDERGROUND WARNING/MARKING TAPE
632	4	EACH	PEDESTRIAN SIGNAL HEAD, (LED), (COUNTDOWN), TYPE D2, AS PER PLAN
632	4	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	795	FOOT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	4	EACH	PEDESTAL FOUNDATION
632	775	FOOT	LOOP DETECTOR LEAD-IN CABLE
632	4	EACH	PEDESTAL, 8', TRANSFORMER BASE
632	2	EACH	SIGNALIZATION MISC.: RE-ESTABLISH VIDEO DETECTION ZONES
633	1	EACH	CONTROLLER ITEM MISC.: MODIFY EXISTING CONTROLLER

PEDESTAL TABLE

SUPPORT NO.	STATION	OFFSET	ELEVATION		POLE HEIGHT	ORIENTATION ANGLES		
			A	B		PEDESTRIAN SIGNAL	PEDESTRIAN BUTTON	HANDHOLE
					FT	DEG	DEG	DEG
PS-1	524+17.4	30.8' R	-	-	8	270	270	180
PS-2	524+10.3	34.8' L	-	-	8	270	270	180
PS-3	524+59.6	40.0' L	-	-	8	0	0	180
PS-4	525+22.9	40.2' L	-	-	8	0	0	180



CALCULATED  
JAT  
CHECKED  
MWS

TRAFFIC SIGNAL PLAN DETAILS  
EAST PERKINS AVE. & MALL DRIVE

DO3 SRTS PERKINS

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**STRUCTURE NOTES:**

**REFERENCE:** SHALL BE MADE TO STANDARD DRAWINGS:

- DS-1-92 (REVISED 07-18-03)
- SB-1-08 (REVISED 1-15-21)
- CPA-1-08 (REVISED 7-18-08)
- TST-1-99 (REVISED 1-15-21)

AND TO SUPPLEMENTAL SPECIFICATIONS:

- 800 (REVISED 4-16-21)

**DESIGN SPECIFICATIONS:** THIS STRUCTURE CONFORMS TO "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

**DESIGN LOADING:** HL-93.  
FUTURE WEARING SURFACE (FWS) OF 60 LBS./FT<sup>2</sup>.  
PEDESTRIAN LIVE LOAD OF 90 LBS./FT<sup>2</sup>.

**DESIGN DATA:**

**CAST-IN-PLACE CONCRETE:**

- CLASS QC2 CONCRETE, 28 DAY MINIMUM COMPRESSIVE STRENGTH, f'c = 4,500 P.S.I. (SUPERSTRUCTURE)
- CLASS QC1 CONCRETE, 28 DAY MINIMUM COMPRESSIVE STRENGTH, f'c = 4,000 P.S.I. (SUBSTRUCTURE)
- REINFORCING STEEL, ASTM A615, A616, OR A617, GRADE 60, MINIMUM YIELD STRENGTH, Fy = 60,000 P.S.I. ALL STRUCTURE REINFORCING SHALL BE EPOXY COATED.

**MONOLITHIC WEARING SURFACE:** MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.

**DECK PROTECTION METHOD:** EPOXY COATED REINFORCING STEEL, 2 1/2" CONCRETE COVER, STEEL DRIP STRIP, AND SEALING OF CONCRETE SURFACES.

**EXISTING STRUCTURE VERIFICATION:** DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM THE PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05, AND 105.02. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**REMOVAL OF EXISTING STRUCTURE:** PORTIONS OF THE EXISTING STRUCTURE SHALL BE REMOVED IN ACCORDANCE WITH ITEM 202. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY MATERIAL FROM FALLING INTO THE STREAM.

**UTILITY LINES:** ALL EXPENSES INVOLVED IN RELOCATING THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITIES. THE CONTRACTOR AND THE UTILITIES ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

**ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN:** UNCLASSIFIED EXCAVATION SHALL BE IN ACCORDANCE WITH 503 EXCEPT THAT THE BACKFILL MATERIAL BEHIND THE ABUTMENTS SHALL BE 203 GRANULAR MATERIAL PLACED IN 6 INCH LIFTS AND COMPACTED IN ACCORDANCE WITH 304.04.

**ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN:** SEAL THE 1.3" CONCRETE SLAB SURFACE WITH A NON-EPOXY SEALER. TINT THE SEALER SO THE FINAL COLOR IS FEDERAL COLOR STANDARD NO. 37722-BUFF.

**ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN:** TINT THE EPOXY-URETHANE SO THE FINAL COLOR IS FEDERAL COLOR STANDARD NO. 37722-BUFF.

**ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN:** AGGREGATE SHALL BE GRAVEL ONLY, NOT SLAG.

ESTIMATED QUANTITIES					CALCULATED BY: TGW		DATE: 5/10/2021	
					CHECKED BY: JDB		DATE: 6/29/2021	
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	SUPER.	SUBSTR.	GENERAL	SEE SHEET
202	11200	LS		PORTIONS OF STRUCTURE REMOVED		LS		
503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN		LS		1
509	10000	1512	LB	EPOXY COATED REINFORCING STEEL	696	816		
510	10000	18	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		18		
511	33412	4	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	4			
511	46210	7	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING			7	
512	10051	10	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY), AS PER PLAN	10			1
512	10101	15	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	5	10		1
512	33000	6	SY	TYPE 2 WATERPROOFING		6		
512	33010	3	SY	TYPE 3 WATERPROOFING	3			
516	13600	11	SF	1" PREFORMED EXPANSION JOINT FILLER			11	
517	70001	42	FT	RAILING (TWIN STEEL TUBE), AS PER PLAN	42			6 & 7
518	21231	LS		POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN		LS		1
518	22300	34	FT	SPECIAL - STEEL DRIP STRIP	34			6
518	40000	23	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		23		
608	13001	111	SF	6" CONCRETE WALK, AS PER PLAN			111	7

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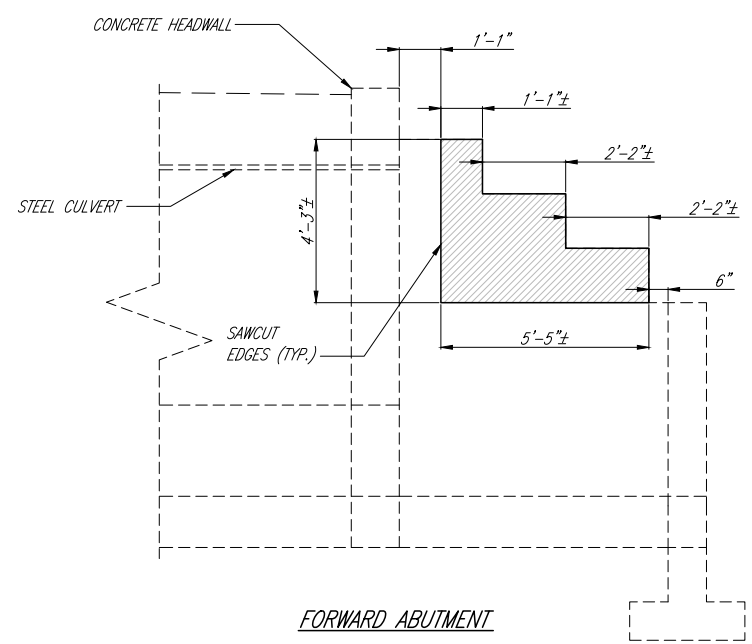
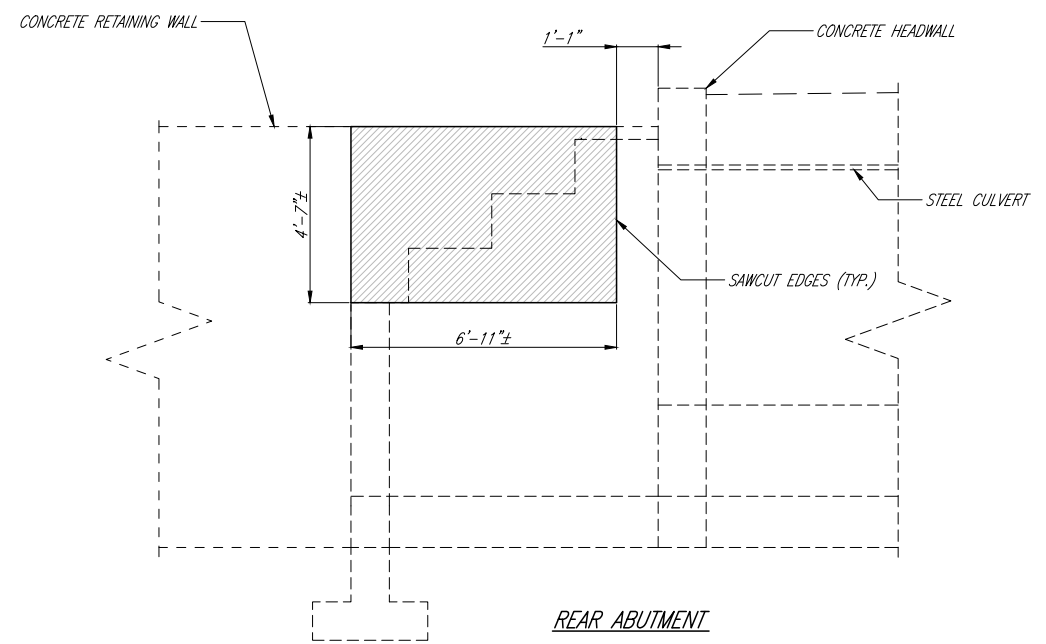
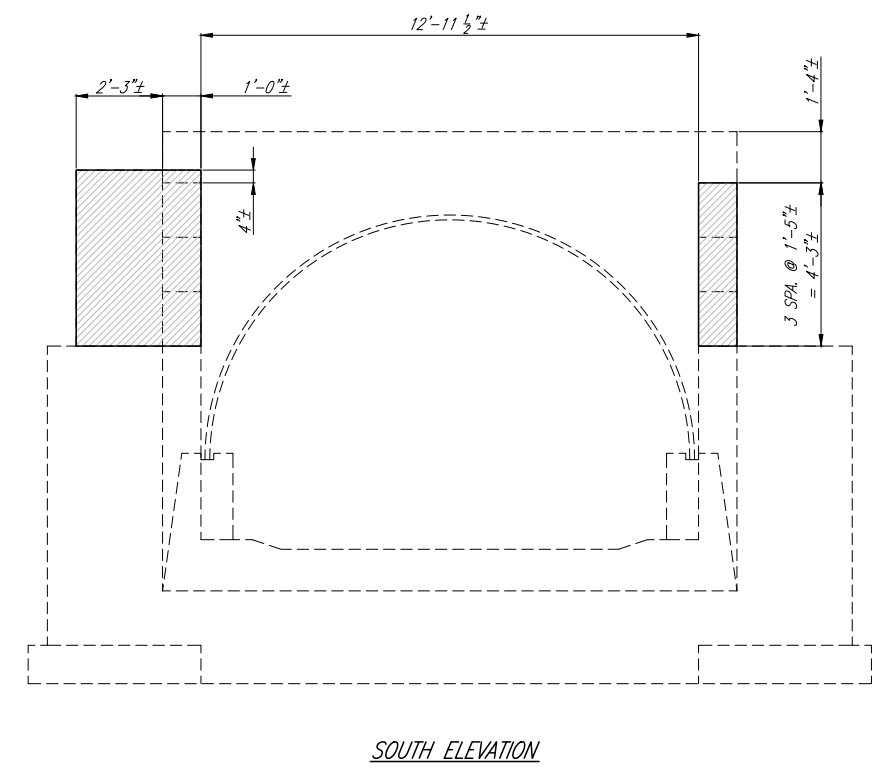
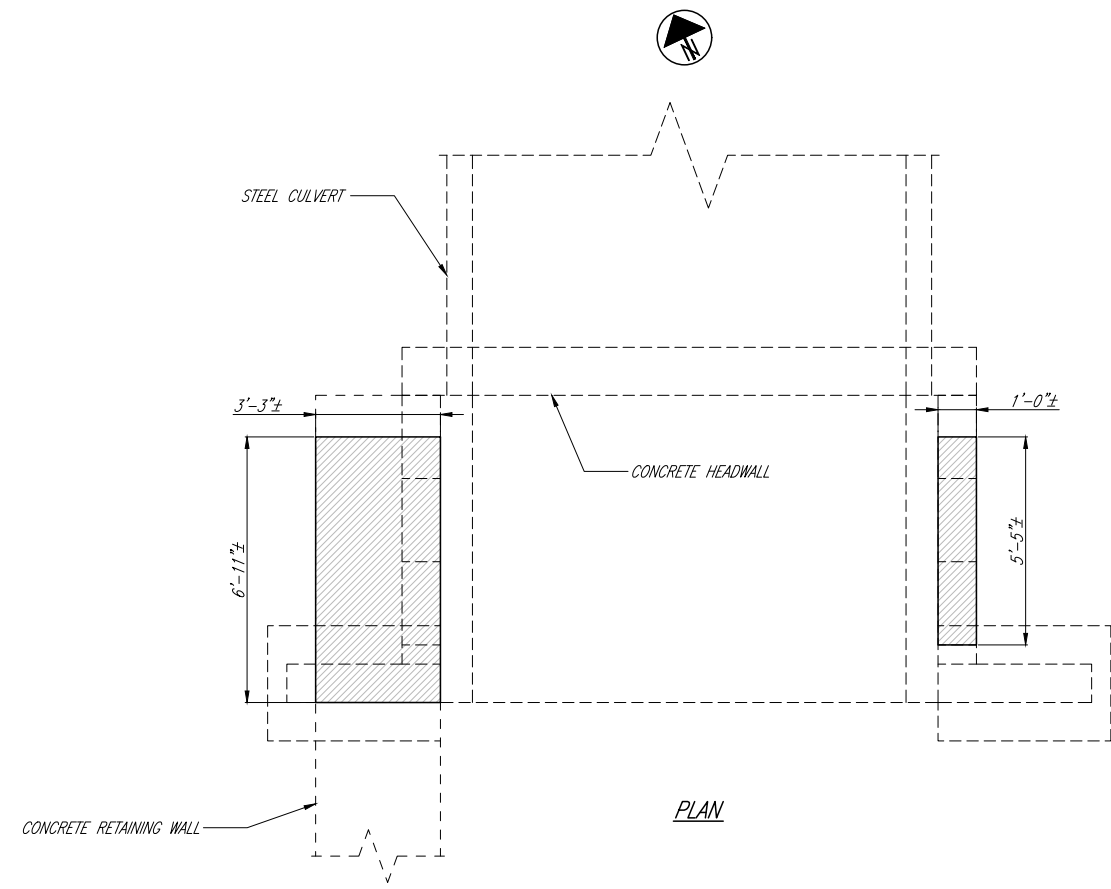
CALCULATED  
TGW  
CHECKED  
JDB



**STRUCTURE QUANTITIES & NOTES**

**ERI - RR7 - 3.75/4.46  
PERKINS TOWNSHIP SRTS**

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NOTES:

SAWCUT EDGES: SEE "REMOVAL OF EXISTING STRUCTURE" NOTE ON SHEET 1 OF 8.

LEGEND

 PORTIONS OF STRUCTURE REMOVED

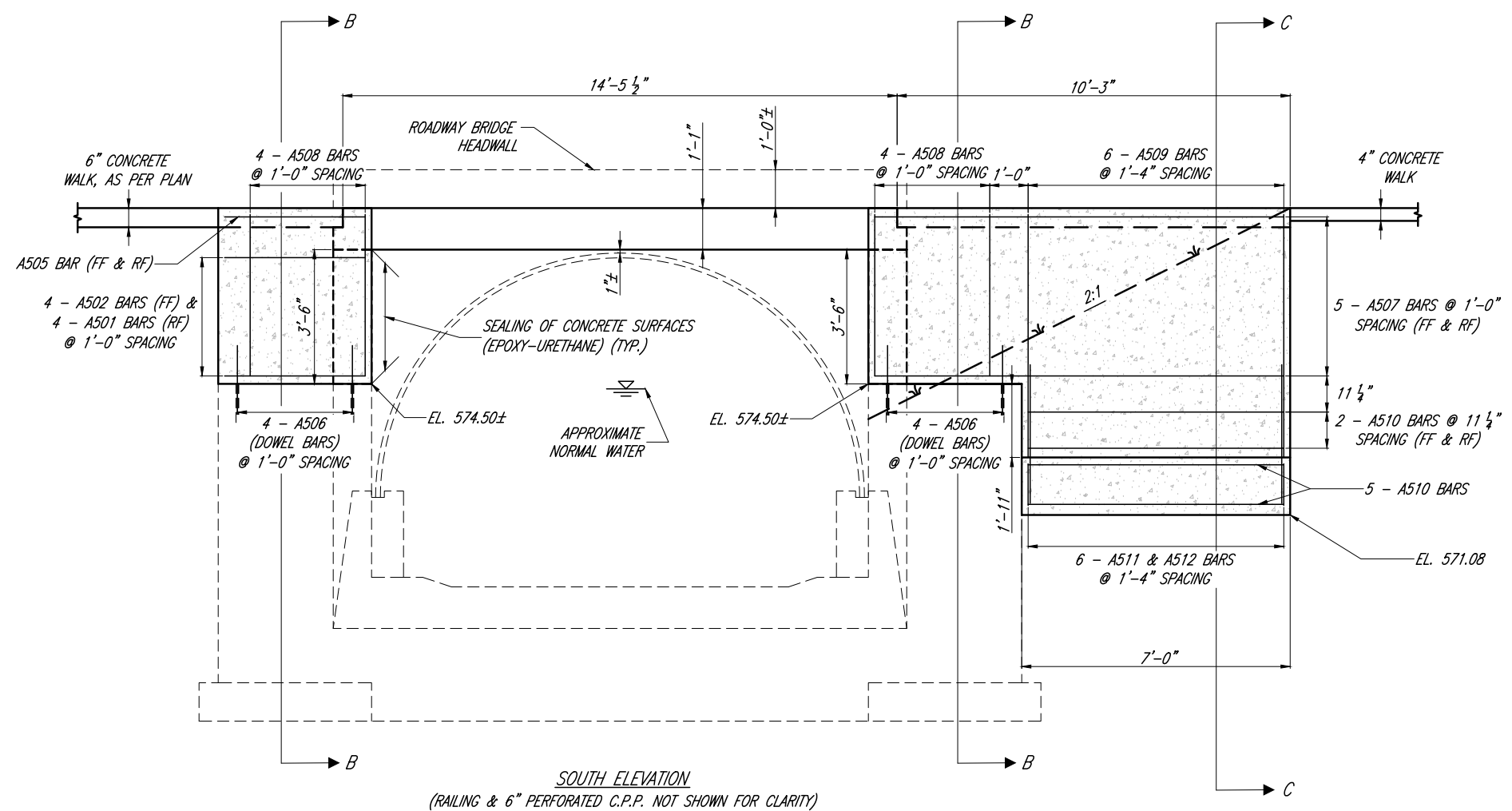
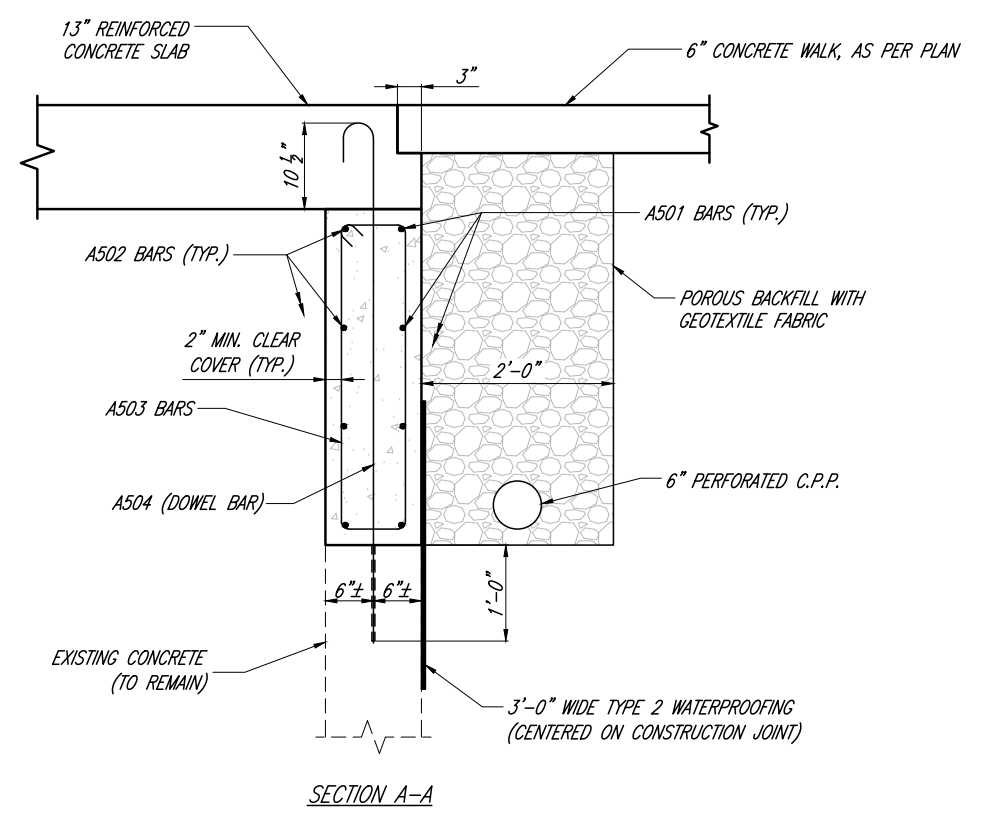
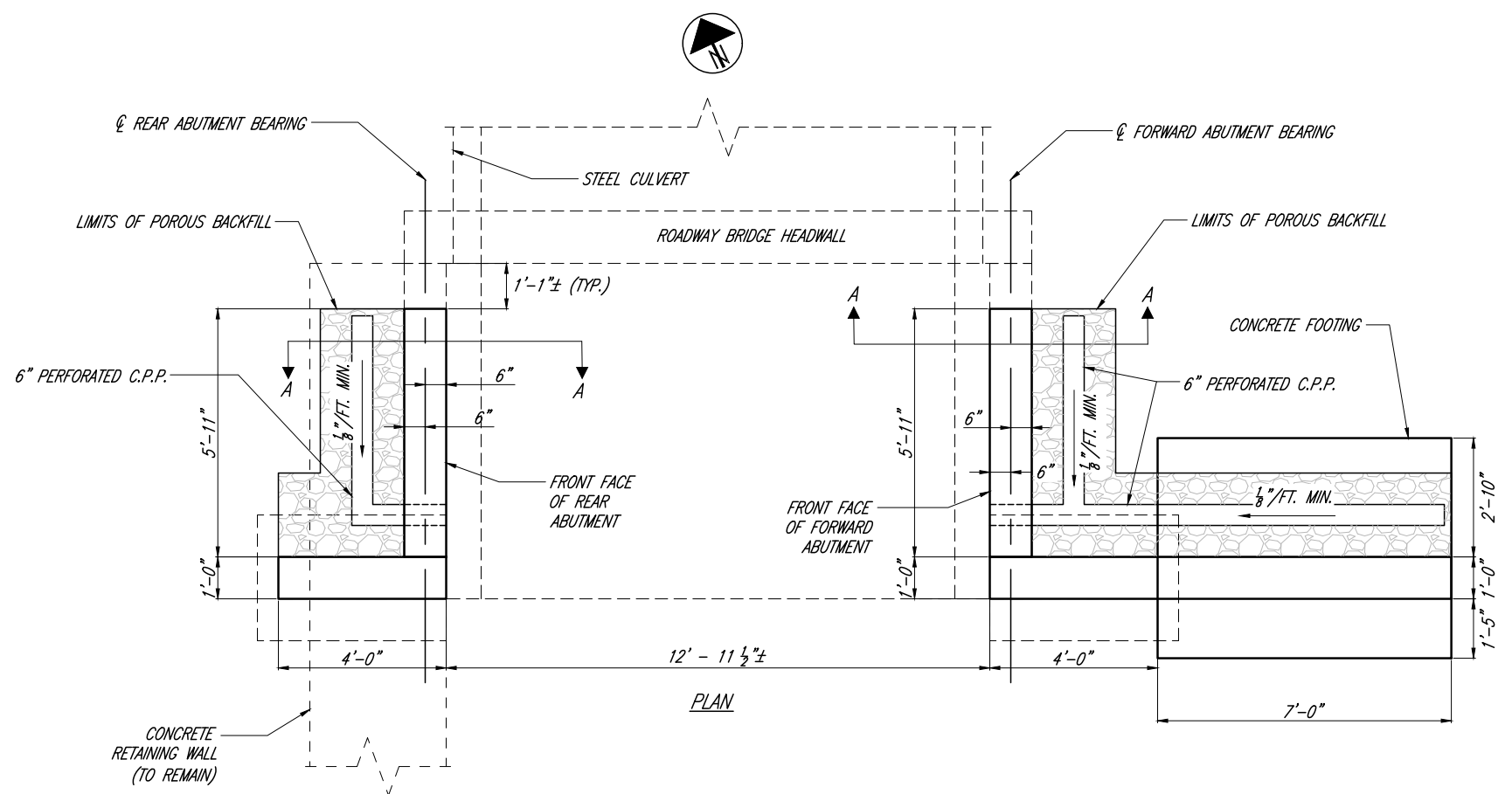
CALCULATED  
TGW

CHECKED  
JDB

**KEM**  
K.E. MCCARTNEY & ASSOCIATES  
ENGINEERS • PLANNERS • SURVEYORS

**CONCRETE REMOVAL DETAILS**

**ERI - RR7 - 3.75/4.46**  
**PERKINS TOWNSHIP SRTS**



**NOTES:**

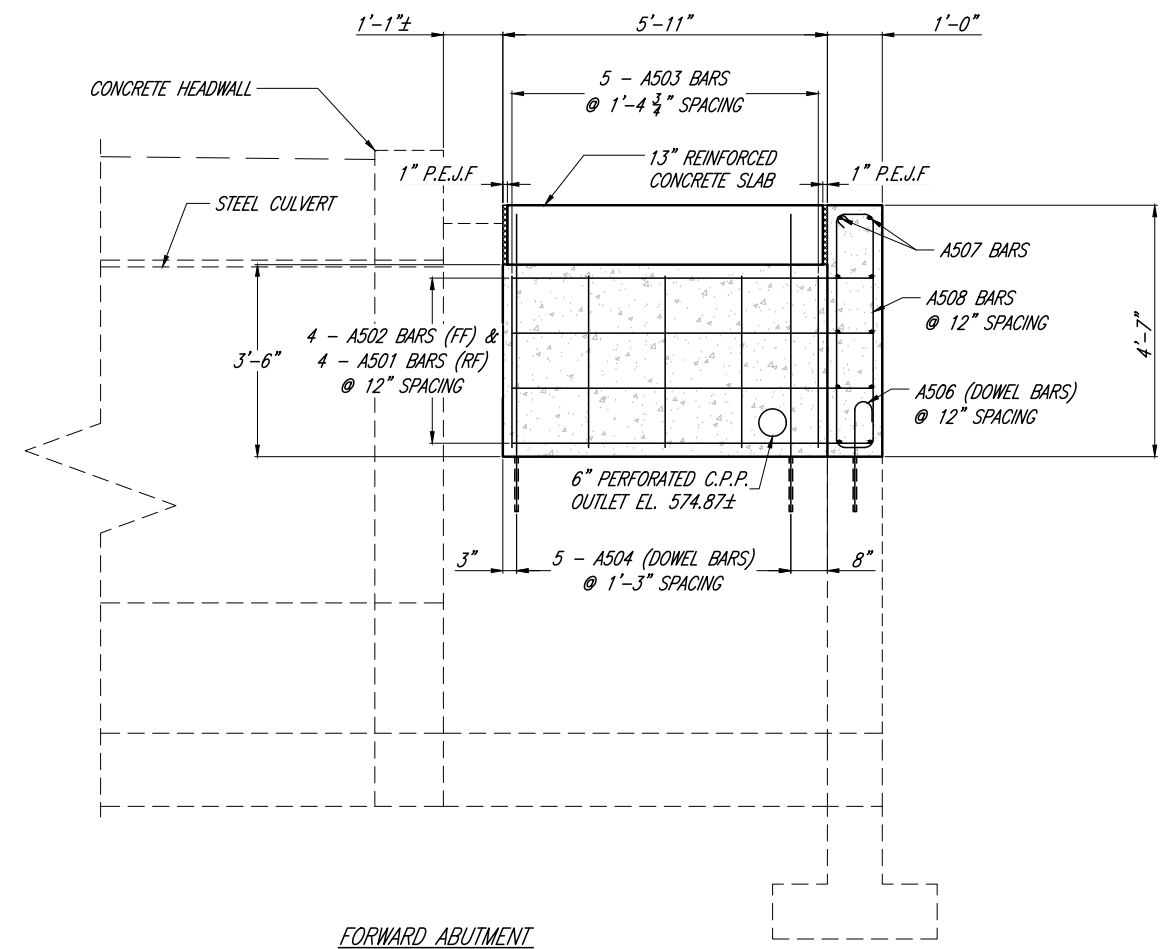
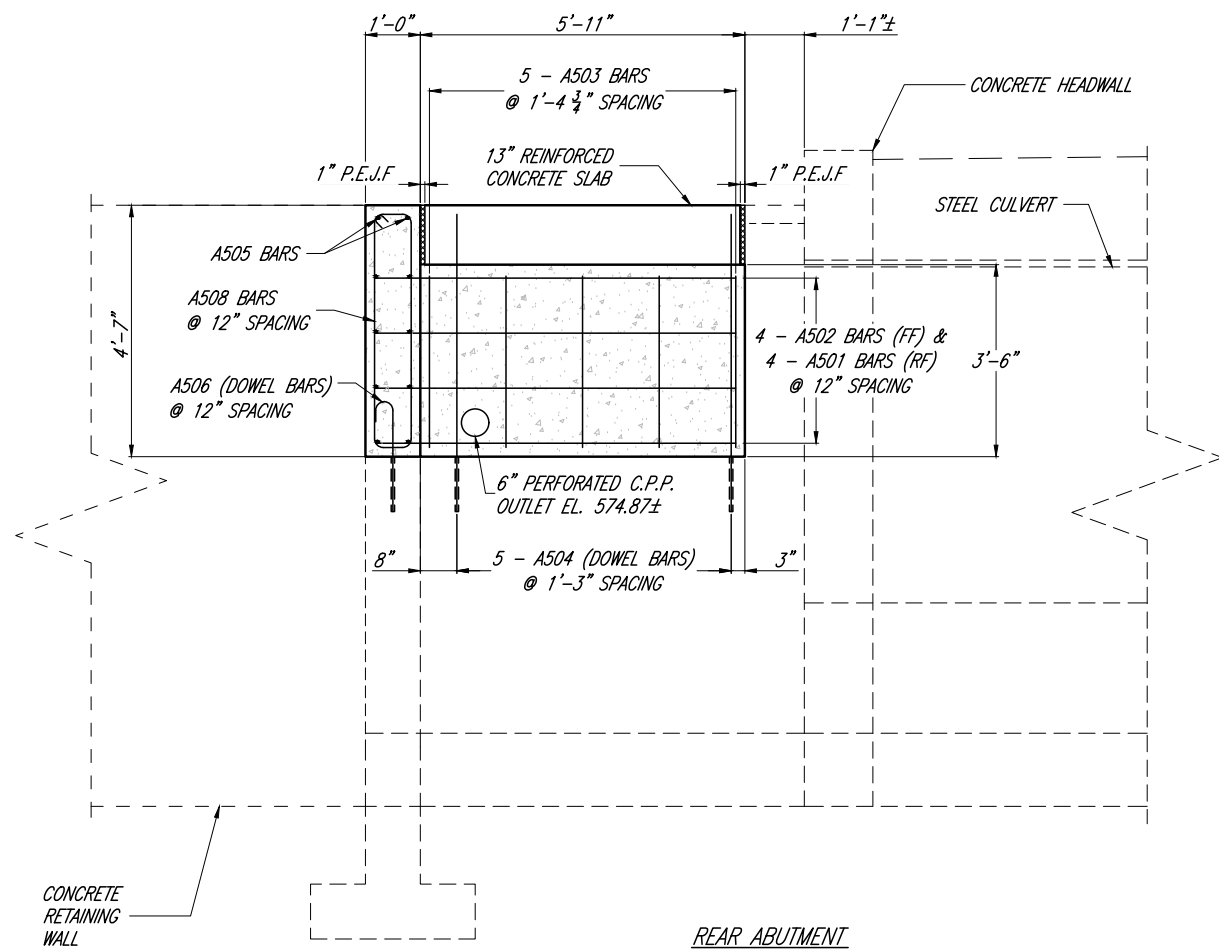
- REINFORCING STEEL: SEE SHEET 8 OF 8
- SECTIONS B-B & C-C: SEE SHEET 5 OF 8 FOR DETAILS
- POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN: 2'-0" THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE AND Laterally TO THE ENDS OF THE NEW ABUTMENTS AND WINGWALLS.
- 6" CORRUGATED C.P.P.: SEE SHEET 4 OF 8 FOR OUTLET ELEVATIONS

**NOTATION:**

- FF = FRONT FACE
- RF = REAR FACE
- C.P.P. = CORRUGATED PLASTIC PIPE

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**NOTES:**

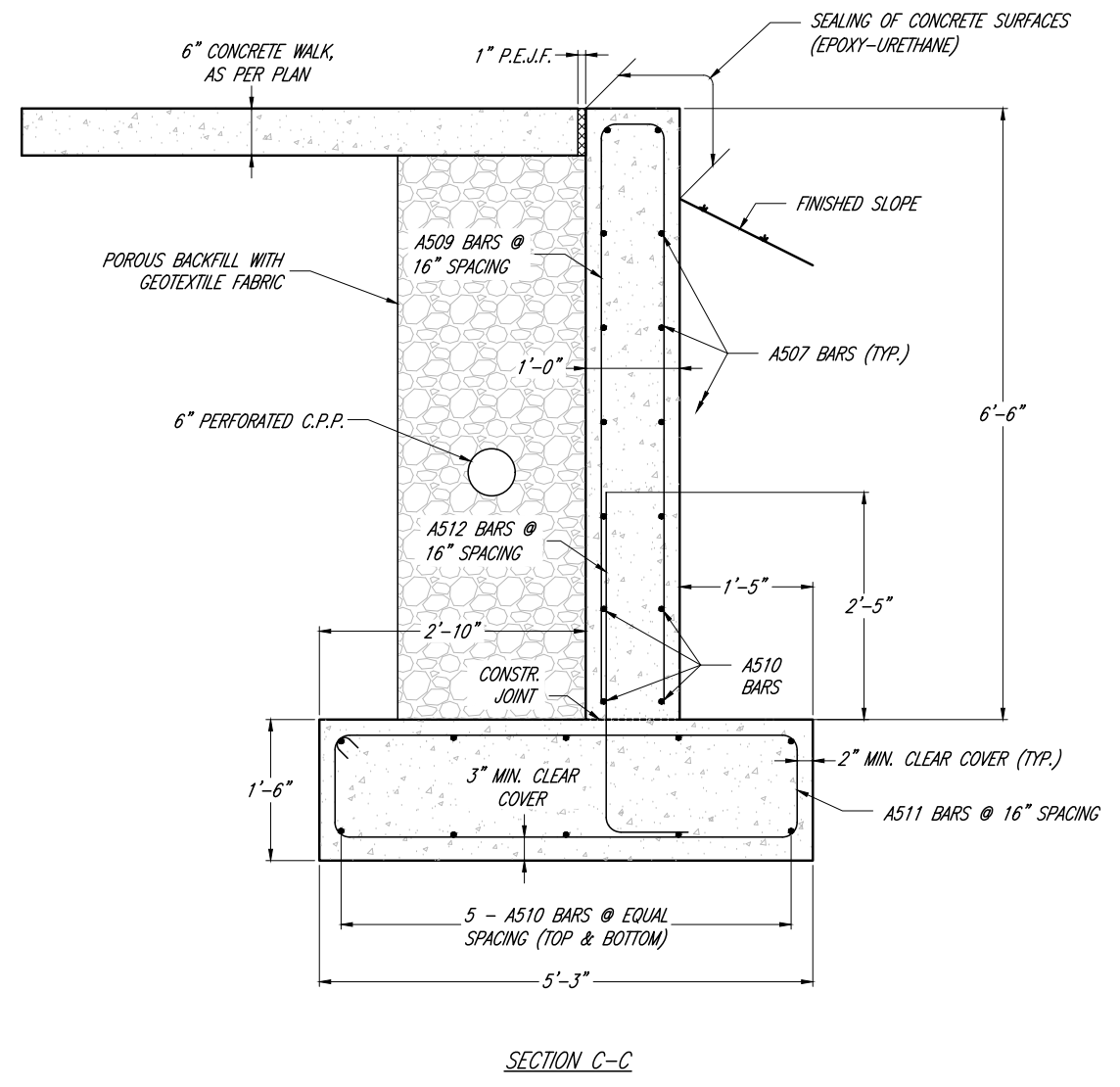
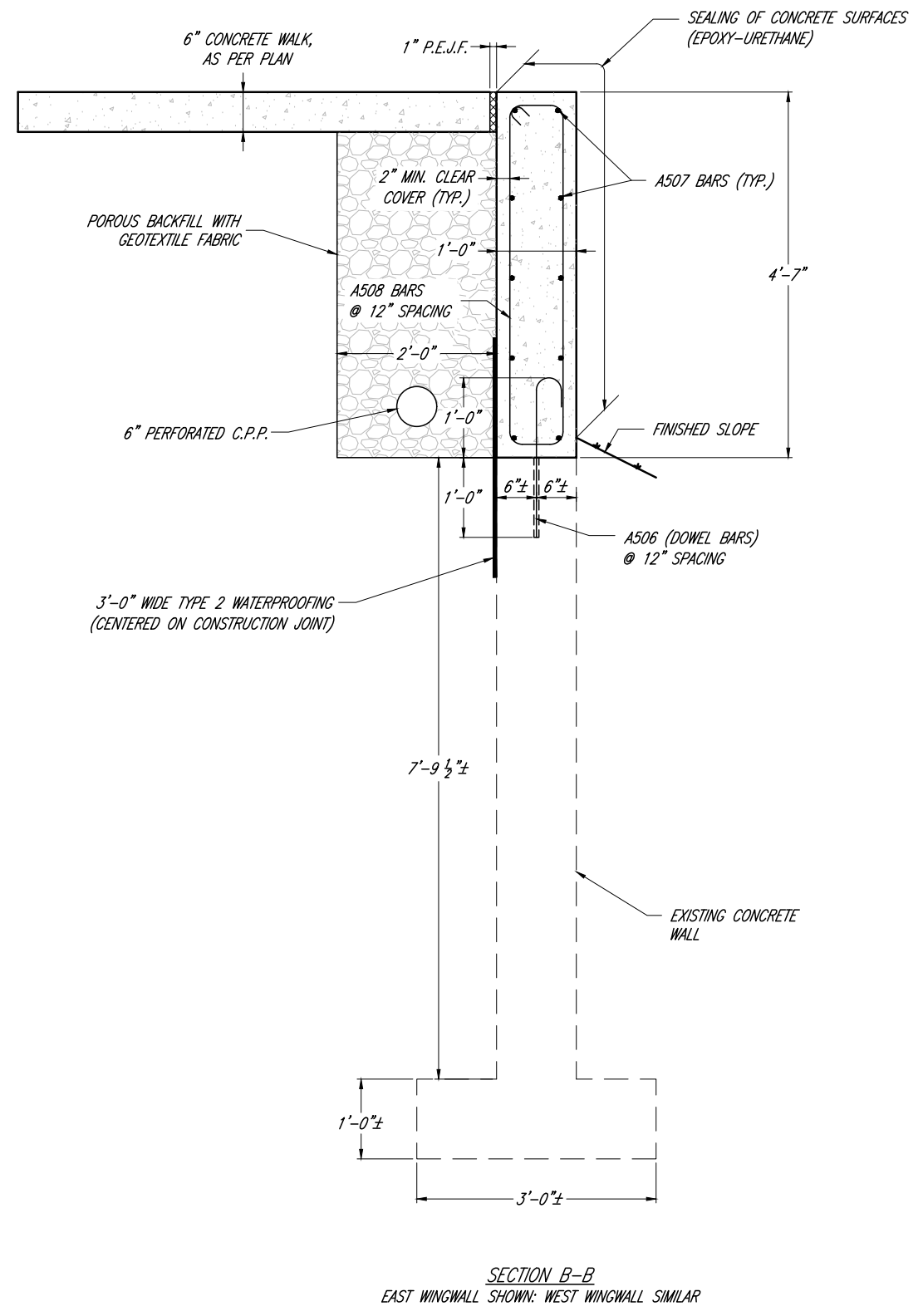
REINFORCING STEEL: SEE SHEET 8 OF 8

6" CORRUGATED C.P.P.: PLACE THE PIPE OUTLETS SO THAT THEY WILL NOT INTERFERE WITH ANY REINFORCING IN THE ABUTMENTS.

**NOTATION:**

FF = FRONT FACE  
 RF = REAR FACE  
 P.E.J.F. = PREFORMED EXPANSION JOINT FILLER  
 C.P.P. = CORRUGATED PLASTIC PIPE





**NOTES:**

REINFORCING STEEL: SEE SHEET 8 OF 8

SECTIONS B-B & C-C: SEE SHEET 3 OF 8 FOR LOCATIONS

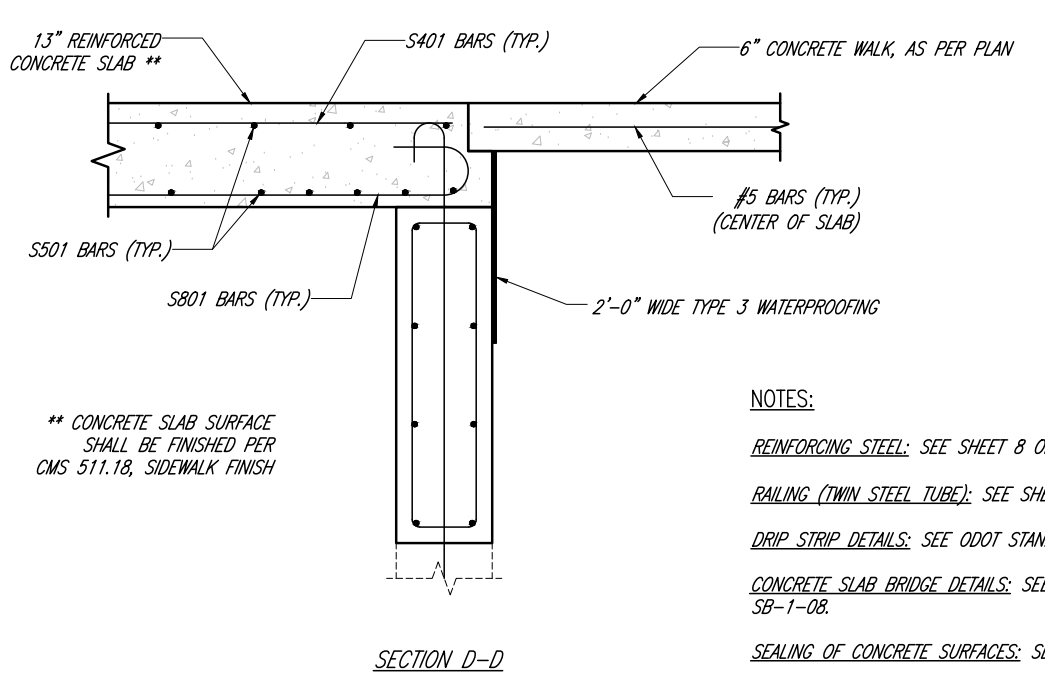
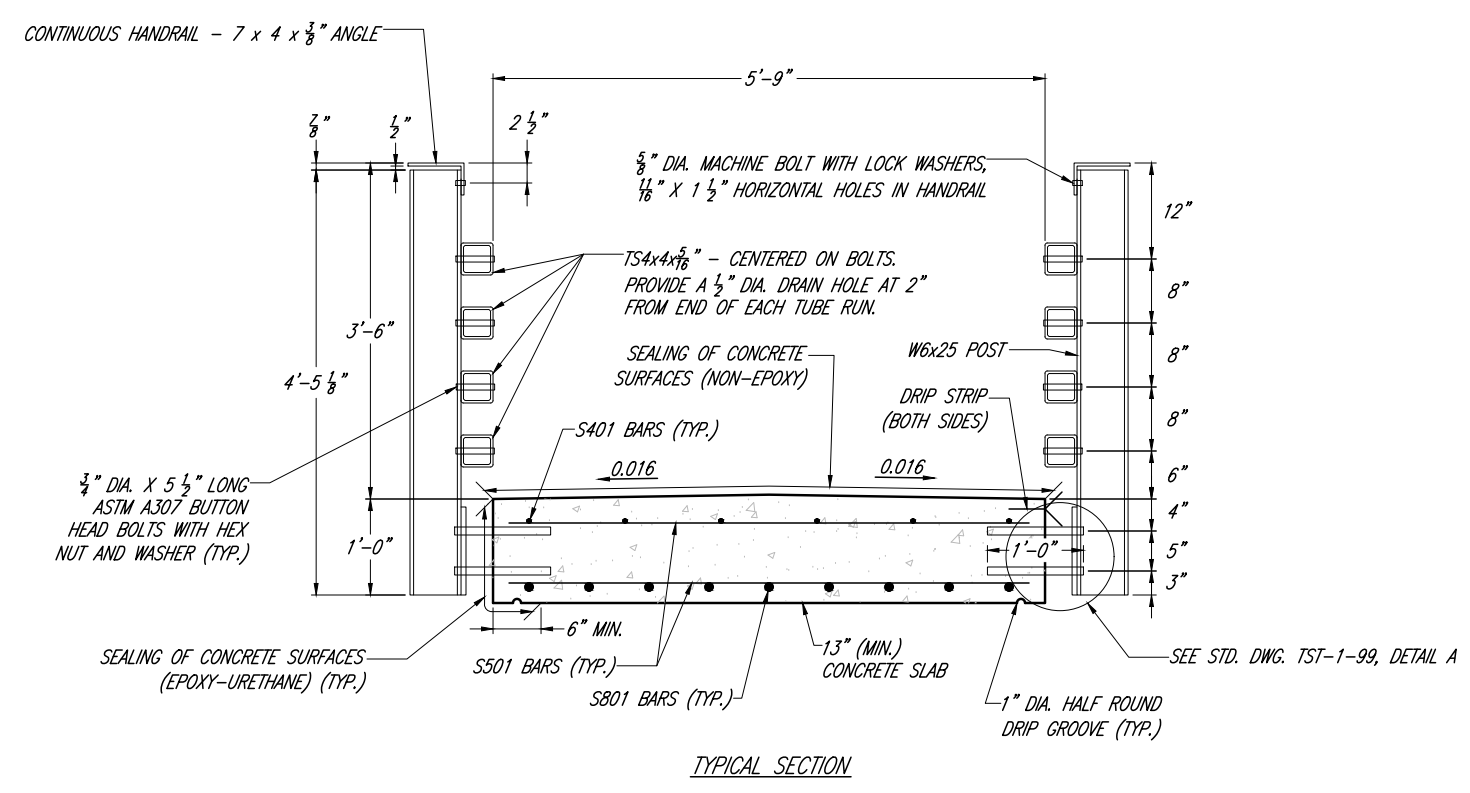
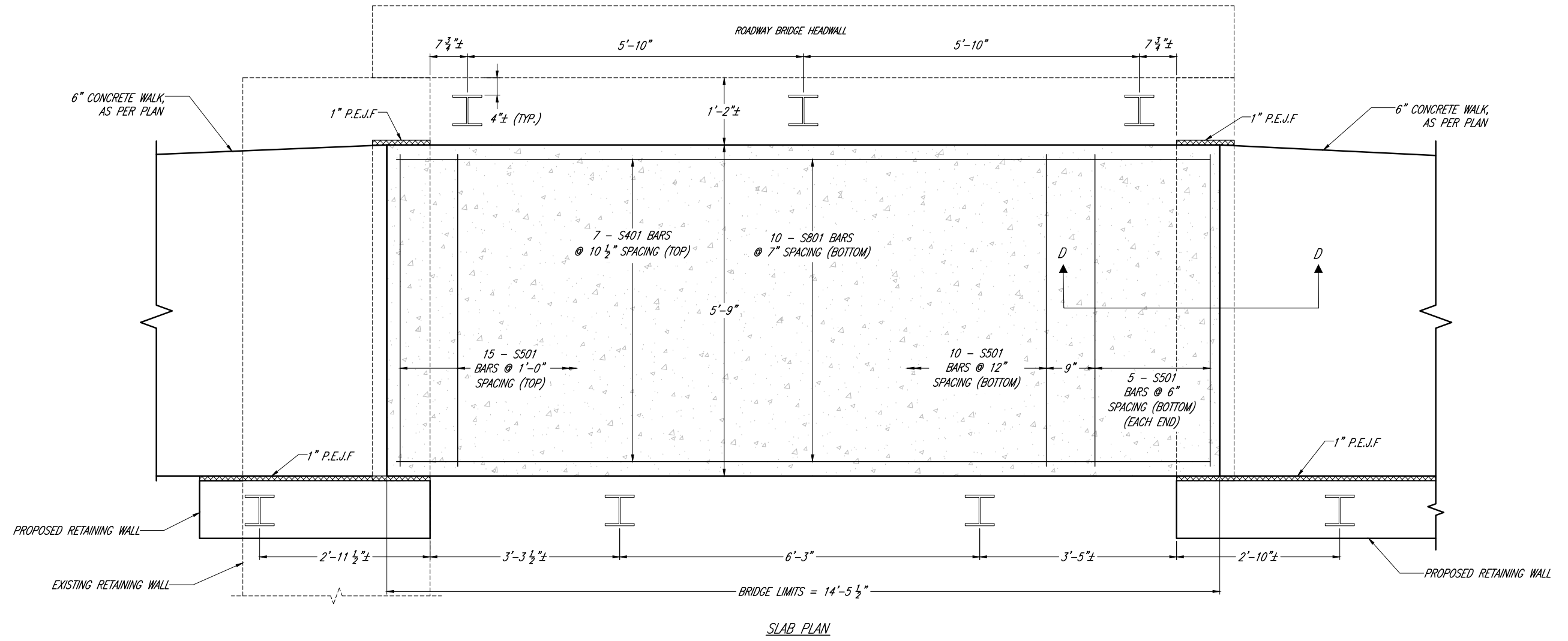
POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN: 2'-0" THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE AND Laterally TO THE ENDS OF THE NEW ABUTMENTS AND WINGWALLS.

**NOTATION:**

P.E.J.F. = PREFORMED EXPANSION JOINT FILLER

C.P.P. = CORRUGATED PLASTIC PIPE

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**NOTES:**

REINFORCING STEEL: SEE SHEET 8 OF 8

RAILING (TWIN STEEL TUBE): SEE SHEET 7 OF 8 FOR DETAILS

DRIP STRIP DETAILS: SEE ODOT STANDARD DRAWING DS-1-92

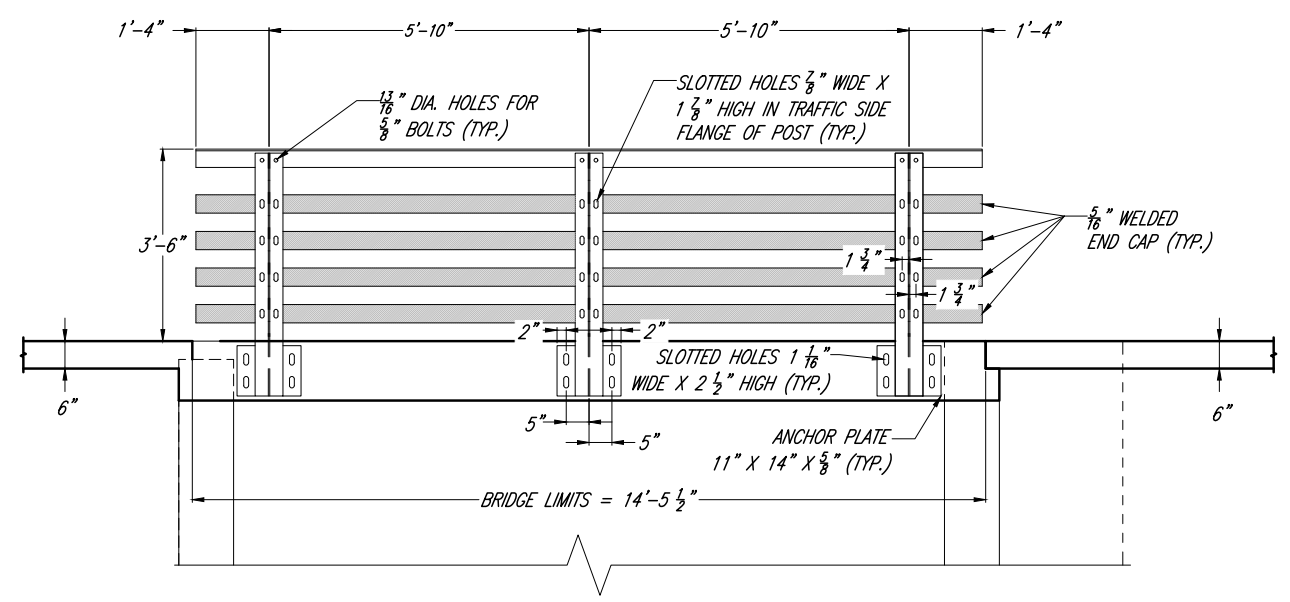
CONCRETE SLAB BRIDGE DETAILS: SEE ODOT STANDARD DRAWING SB-1-08.

SEALING OF CONCRETE SURFACES: SEE SHEET 1 OF 8

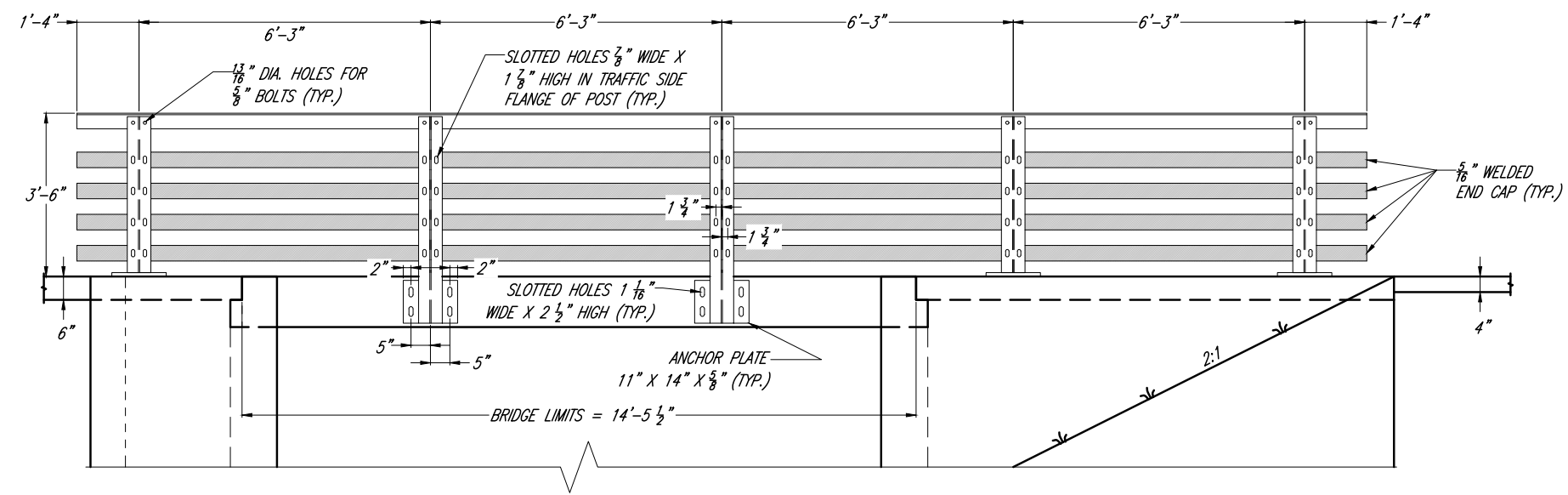
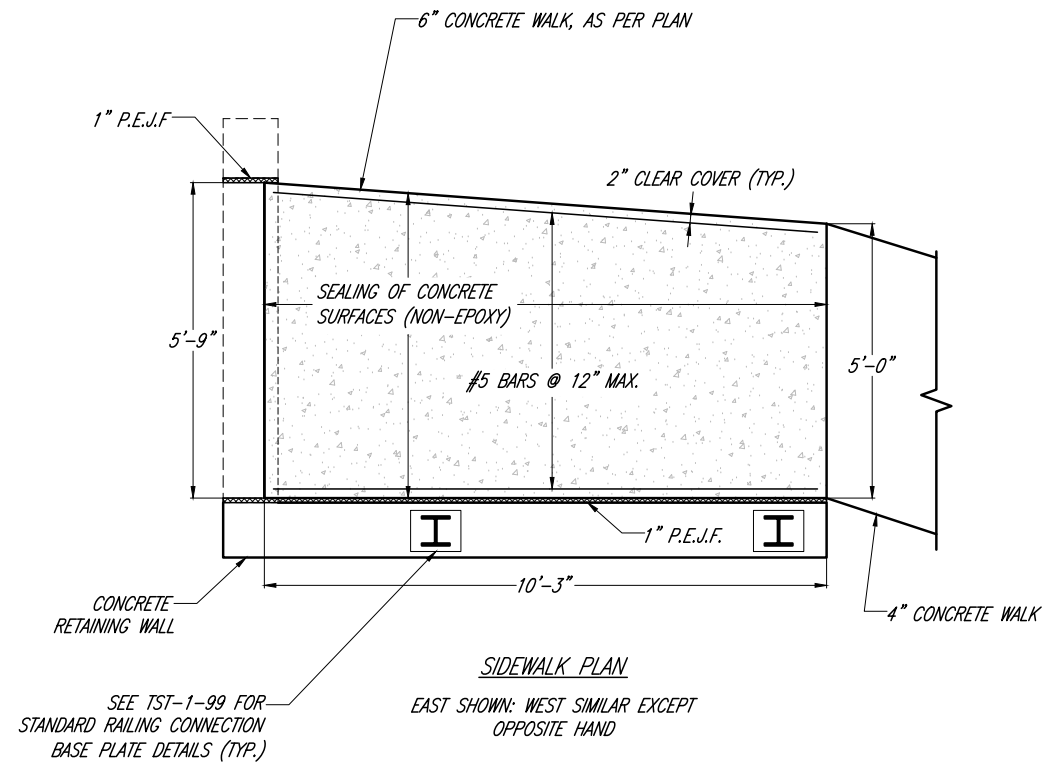
**NOTATION:**

P.E.J.F. = PREFORMED EXPANSION JOINT FILLER

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**NORTH RAILING ELEVATION**  
DETAILS PER STANDARD DRAWING TST-1-99, MODIFIED FOR (4) TS4 X 4 RAILS PLUS ANGLE HANDRAILS IN LIEU OF (2) TS8 X 4 RAILS.



**SOUTH RAILING ELEVATION**  
DETAILS PER STANDARD DRAWING TST-1-99, MODIFIED FOR (4) TS4 X 4 RAILS PLUS ANGLE HANDRAILS IN LIEU OF (2) TS8 X 4 RAILS.

**NOTES:**

REINFORCING STEEL: SEE SHEET 8 OF 8

SEALING OF CONCRETE SURFACES: SEE SHEET 1 OF 8

RAILING (TWIN STEEL TUBE): SEE ODOT STANDARD DRAWING TST-1-99, MODIFIED AS SHOWN. RAILING STEEL SHALL BE GROUND SMOOTH AND BE FREE OF SLIVERS, FINS, TEARS, SHARP EDGES, BURRS, ETC.

6" CONCRETE WALK: REINFORCING STEEL FOR SIDEWALK SHALL BE EPOXY COATED AND CENTERED VERTICALLY IN THE 6" CONCRETE SIDEWALK. PAYMENT SHALL BE INCLUDED WITH ITEM 608 - 6" CONCRETE WALK, AS PER PLAN.

**NOTATION:**

P.E.J.F. = PREFORMED EXPANSION JOINT FILLER

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REINFORCING STEEL SCHEDULE					CALCULATED BY: TGW		DATE: 12/18/2020	
					CHECKED BY: JDB		DATE: 01/14/2021	
BAR MARK	NUMBER	LENGTH	WEIGHT (LBS.)	TYPE	DIMENSIONS			
					A	B	C	D
<i>SUPERSTRUCTURE</i>								
S401	7	14' - 1"	66	STR.				
S501	35	5' - 5"	198	STR.				
S801	10	16' - 2"	432	2	14' - 4"			
<i>SUBSTRUCTURE</i>								
A501	8	8' - 9"	73	5	3' - 0"	5' - 11"		
A502	8	10' - 1"	84	5	3' - 8"	6' - 7"		
A503	10	8' - 2"	85	4	0' - 8"	3' - 2"		
A504	10	6' - 0"	63	1	5' - 5"			
A505	2	3' - 8"	8	STR.				
A506	8	2' - 7"	22	1	2' - 0"			
A507	10	10' - 8"	111	STR.				
A508	8	10' - 4"	86	4	0' - 8"	4' - 3"		
A509	6	12' - 9"	80	3	0' - 8"	6' - 2"		
A510	14	6' - 8"	97	STR.				
A511	6	12' - 7"	79	4	4' - 11"	1' - 1"		
A512	6	4' - 5"	28	5	0' - 10"	3' - 8"		
TOTAL			1512					

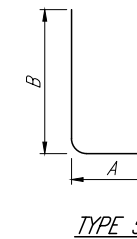
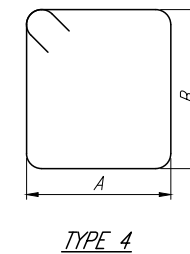
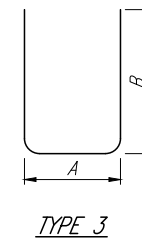
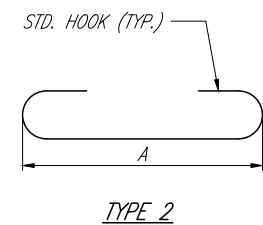
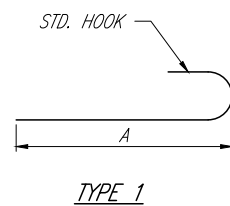
**REINFORCING STEEL:**

BAR SIZE IS INDICATED IN THE BAR MARK. THE LETTERS IDENTIFY THE BAR LOCATION; THE FIRST NUMBER INDICATES THE BAR SIZE AND THE REMAINING DIGITS STATE THE SEQUENCE NUMBER.

EXAMPLE: S501  
 S = LOCATION OF THE BAR IN STRUCTURE (SUPERSTRUCTURE)  
 5 = BAR SIZE (5/8" DIA.)  
 01 = SEQUENCE NUMBER

BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. STRAIGHT BARS ARE INDICATED BY "STR".

ALL REINFORCING STEEL TO BE EPOXY COATED, PER CMS 709.00



CALCULATED  
TGW

CHECKED  
JDB

**REINFORCING STEEL LIST**

**ERI - RR7 - 3.75/4.46  
PERKINS TOWNSHIP SRTS**

8 / 8

55  
79

THIS PLAN PREPARED BY:

52 N. Diamond Street  
Mansfield, OH 44902  
T: 419-525-0093

526 E. Broad Street  
Elyria, OH 44035  
T: 440-323-9608



**K.E. McCARTNEY & ASSOCIATES**  
ENGINEERS PLANNERS SURVEYORS

FIRM NAME: K.E. McCARTNEY & ASSOCIATES  
R/W DESIGNER: MATTHEW D. DAWSON  
R/W REVIEWER: NATHANIEL B. RAMSEY, P.S.  
FIELD REVIEWER: KENNETH A. McCARTNEY, P.S.  
PRELIMINARY FIELD REVIEW DATE: 08/06/2020  
TRACINGS FIELD REVIEW DATE: 03/16/2021  
OWNERSHIP UPDATED BY: MATTHEW D. DAWSON  
DATE COMPLETED: 03/18/2021  
PLAN COMPLETION DATE: 03/26/2021



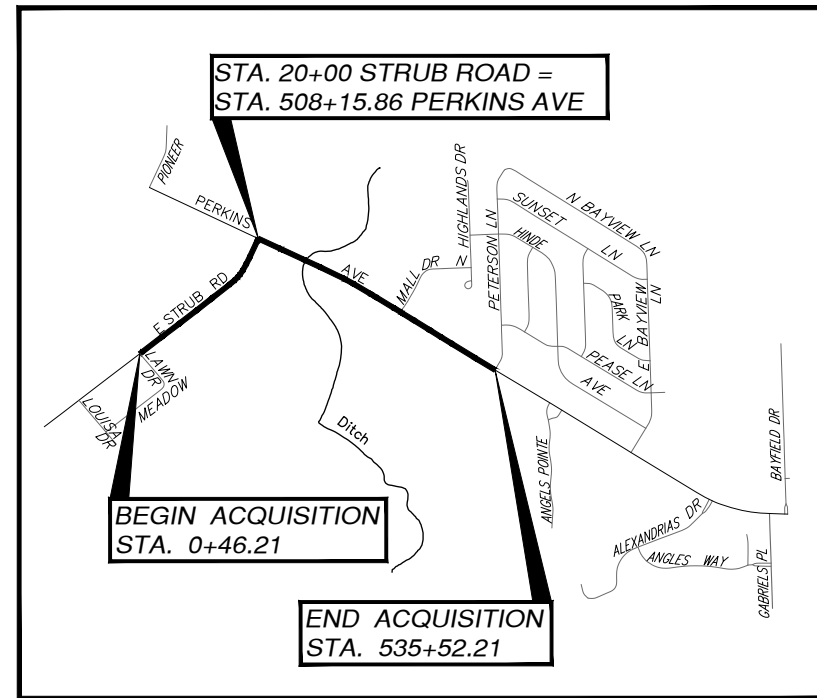
Know what's below  
CALL BEFORE YOU DIG

UTILITY OWNERS			
TYPE	NAME & ADDRESS	TYPE	NAME & ADDRESS
CABLE	BUCKEYE BROADBAND 2700 OREGON ROAD NORTHWOOD, OHIO 43619 CONTACT: MICHAEL SHEHAN (419) 724-3713	WATER & SEWER	ERIE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES 554 RIVER ROAD HUIRON, OHIO 44839 CONTACT: DAVE MOYER (UTILITIES DIRECTOR) (419) 433-7303 (X2305) (419) 706-2694 (CELL)
	GAS		COLUMBIA GAS OF OHIO 1800 BROAD AVENUE FINDLAY, OHIO 45840 CONTACT: NATHAN HOY (419) 615-2930 (CELL)
GAS-TRANSMISSION	TC ENERGY CROSSINGS & ENCROACHMENTS 700 LOUISIANA STREET SUITE 700 HOUSTON, TX 77002 800-562-8931 LOCAL ENGINEER: JOHNATHAN FRAZIER (304) 590-4269 (CELL) (304) 357-2209 (DESK)	ELECTRIC	OHIO EDISON 2508 WEST PERKINS AVE. SANDUSKY, OHIO 44870 CONTACT: JIM ROHRBACHER (419) 627-6881
	PERKINS AVE STORM SEWERS & TRAFFIC SIGNALS	TELEPHONE	AT&T OF OHIO 130 NORTH ERIE ST. ROOM 705 TOLEDO, OHIO 43604 CONTACT: ROB FEY (419) 245-5004
STRUB RD STORM SEWERS	PERKINS TOWNSHIP 2610 COLUMBUS AVE. SANDUSKY, OHIO 44870 CONTACT: RICK CRAWFORD (DIRECTOR OF PUBLIC WORKS) (419) 609-1400		EVERSTREAM SOLUTIONS 1228 EUCLID AVE. SUITE 250 CLEVELAND, OHIO 44115 CONTACT: GIO REILLO (216) 905-0780

# RIGHT OF WAY LEGEND SHEET

## ERI-PERKINS TOWNSHIP SRTS

### PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO



LOCATION MAP  
NOT TO SCALE  
LATITUDE: 41° 25' 41" LONGITUDE: 82° 39' 57"

**STRUCTURE KEY**

- RESIDENTIAL
- COMMERCIAL
- OUT BUILDING

**PARCEL LEGEND**  
SH = STANDARD HIGHWAY EASEMENT  
T = TEMPORARY EASEMENT

**CONVENTIONAL SYMBOLS**

HUB AND TACK SET	EXISTING STORM SEWER
MAG NAIL SET-TEMP CONTROL	EXISTING FIBER OPTIC LINE
IRON PIN FOUND W/ ID CAP	EXISTING TELEPHONE
IRON PIN FOUND	EXISTING FENCE
IRON PIPE FOUND	EXISTING GUARDRAIL
BENCHMARK SET	EXISTING SHOULDER
IRON PIN SET W/ ID CAP	EXISTING PARKING LOT
MONUMENT BOX FOUND	EXISTING RETAINING WALL
CATCHBASIN	EXISTING BUILDING
CLEAN OUT	EXISTING CONCRETE PAD
STORM MANHOLE	EXISTING CURB
SANITARY MANHOLE	EXISTING CONCRETE HEADWALL
UNKNOWN MANHOLE	EXISTING DRIVEWAY
GAS SERVICE VALVE	EXISTING EDGE OF PAVEMENT
GAS VENT	EXISTING WALK
GAS LINE MARKER	EXISTING STOP BAR
GAS VALVE	EXISTING CONTOUR - MAJOR
ELECTRIC BOX	EXISTING CONTOUR - MINOR
ELECTRIC METER	LOT LINE
TRAFFIC CONTROL BOX	CENTER LINE
GUY WIRE	EASEMENTS:
TELE. PEDESTAL	EXISTING SH:
TELECOM VAULT	EXISTING RIGHT OF WAY:
TELE. LINE MARKER	RIGHT OF WAY (ONLY)
SIGNAL SUPPORT POLE	TEMPORARY RIGHT OF WAY:
SIGNAL CONTROL BASE	PROPERTY LINE:
MAILBOX	CONSTRUCTION LIMITS:
POST/BOLLARD	UTILITY POLES: TELEPHONE:
SIGN	EXISTING GASLINE:
WATER METER	TREES:
WATER VALVE	TREELINE:
WATER MANHOLE	
FIRE HYDRANT	
SOIL BORING	


**INDEX OF SHEETS**

LEGEND SHEET.	1
CENTERLINE PLAT.	2-3
PROPERTY MAP/SUMMARY OF ADDITIONAL R/W.	4-6
BOUNDARY SHEETS.	7-23 ODD
TOPO SHEETS.	8-24 EVEN

THE OHIO UTILITIES PROTECTION SERVICE  
CALL BEFORE YOU DIG.....800-362-2764

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO BEGINNING ANY WORK. UNDERGROUND UTILITY LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THOUGH THEY ARE BELIEVED TO BE ACCURATE, THEIR LOCATION IS AS MARKED ON THE GROUND BY THE UTILITY COMPANY PER OUPS AND OGPUPS CONFIRMATION NUMBERS A018801421, A018801450, A018801465, A019102128, A019102139, A019102144 AND THOSE MARKINGS ARE SUBSEQUENTLY BEING SURVEYED AS A PART OF THIS PROJECT.

I, NATHANIEL B. RAMSEY P.S., HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE TOWNSHIP OF PERKINS, ERIE COUNTY, OHIO IN 2020. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. UNDERGROUND UTILITY LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THOUGH THEY ARE BELIEVED TO BE ACCURATE, THEIR LOCATION IS AS MARKED ON THE GROUND BY THE UTILITY COMPANY PER OUPS CONFIRMATION NUMBERS RECITED HEREON AND THOSE MARKINGS SUBSEQUENTLY BEING SURVEYED AS A PART OF THIS PROJECT. THE HORIZONTAL COORDINATES RECITED HEREIN ARE EXPRESSED AS OHIO STATE PLANE COORDINATES, NORTH ZONE NAD 83(2011) DATUM. PROJECT GROUND COORDINATES (US SURVEY FOOT) ARE RELATIVE TO STATE PLAN GRID COORDINATES (US SURVEY FEET) AND ARE CALCULATED USING A GRID TO GROUND PROJECT ADJUSTMENT FACTOR OF 1.000069421. AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING PROPERTY LINES AND THE EXISTING CENTERLINE OF RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED PROPERTY LINES, CALCULATED THE GROSS TAKE, PRESENT ROADWAY OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS AS SHOWN HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH THE OHIO ADMINISTRATIVE CODE CHAPTER 4733-37 STANDARDS FOR BOUNDARY SURVEYS UNLESS SO NOTED AND IS CORRECT TO THE BEST OF MY KNOWLEDGE. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN THAT EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.

  
NATHANIEL B. RAMSEY, P.S. 8396  
DATE: 04/21/2021



DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Bosemops\HY-281-FW001.dwg Apr 23, 2021 11:25am

FED. AUTH. NO.  
190703

P.L.D. NO.  
105034

R/W DESIGNER  
MOD  
R/W REVIEWER  
NBR

RIGHT OF WAY LEGEND SHEET

ERI-PERKINS TOWNSHIP SRTS

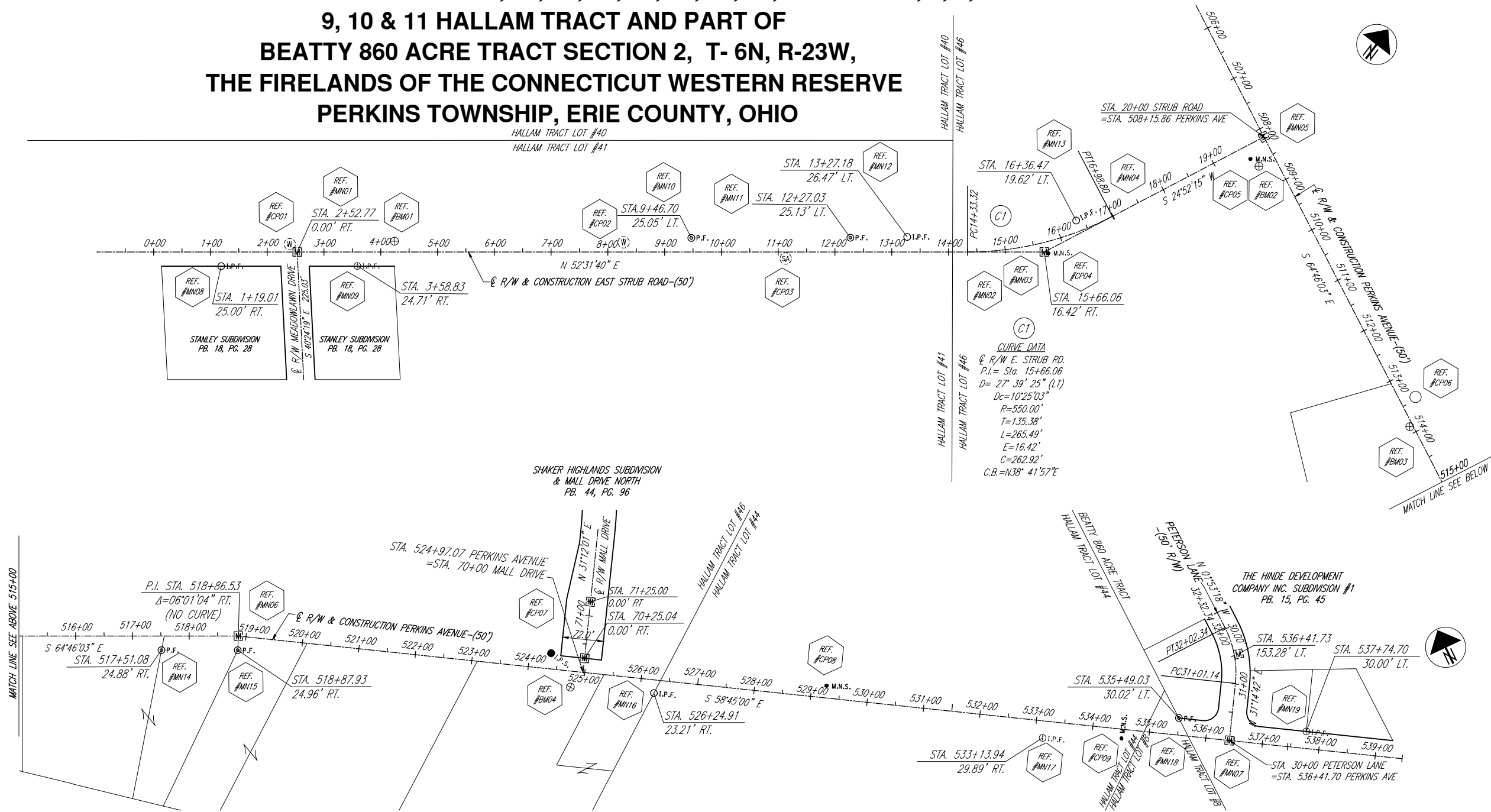
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RECEIVED \_\_\_\_\_, 20\_\_\_\_  
 RECORDED \_\_\_\_\_, 20\_\_\_\_  
 BOOK \_\_\_\_\_ PAGE \_\_\_\_\_  
 COUNTY RECORDER

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T- 6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO



PID NO. 105034  
 R/W DESIGNER MDD  
 R/W REVIEWER NBR

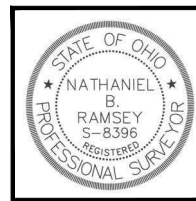
CENTERLINE PLAT

ERI-PERKINS TOWNSHIP SRTS

1 / 2  
 2 / 24

57  
 79

I, NATHANIEL B. RAMSEY P.S., HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE TOWNSHIP OF PERKINS, ERIE COUNTY, OHIO IN 2020. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN. UNDERGROUND UTILITY LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THOUGH THEY ARE BELIEVED TO BE ACCURATE, THEIR LOCATION IS AS MARKED ON THE GROUND BY THE UTILITY COMPANY PER OUPS CONFIRMATION NUMBERS RECITED HEREON AND THOSE MARKINGS SUBSEQUENTLY BEING SURVEYED AS A PART OF THIS PROJECT. THE HORIZONTAL COORDINATES RECITED HEREIN ARE EXPRESSED AS OHIO STATE PLANE COORDINATES, NORTH ZONE NAD 83(2011) DATUM. PROJECT GROUND COORDINATES (US SURVEY FOOT) ARE RELATIVE TO STATE PLAN GRID COORDINATES (US SURVEY FEET) AND ARE CALCULATED USING A GRID TO GROUND PROJECT ADJUSTMENT FACTOR OF 1.000069421. AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING PROPERTY LINES AND THE EXISTING CENTERLINE OF RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED PROPERTY LINES, CALCULATED THE GROSS TAKE, PRESENT ROADWAY OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS AS SHOWN HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH THE OHIO ADMINISTRATIVE CODE CHAPTER 4733-37 STANDARDS FOR BOUNDARY SURVEYS UNLESS SO NOTED AND IS CORRECT TO THE BEST OF MY KNOWLEDGE. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN THAT EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.



### MONUMENT LEGEND

- ▣ EXISTING R/W MONUMENT BOX
- I.P.F. IRON PIN FOUND
- ⊙ I.P.F. IRON PIN FOUND W/ I.D. CAP
- ⊙ P.F. IRON PIPE FOUND
- I.P.S. IRON PIN SET W/ ID CAP
- M.N.S. MAGNAIL SET
- ⊕ WATER MANHOLE W/ PUNCH
- ⊕ SANITARY MANHOLE W/ PUNCH
- PUNCH ON GUARDRAIL
- ⊕ BENCHMARK SET
- REF. #MNV SEE SHEET NO. 3 OF 24 FOR EX. MONUMENTATION STATION OFFSET & DESCRIPTION

**BASIS FOR BEARINGS:**  
 BEARINGS ARE BASED ON OHIO STATE PLANE GRID NORTH AS DETERMINED FROM GPS OBSERVATIONS AND ARE TO BE USED TO DETERMINE DIRECTIONAL VARIATIONS ONLY.

BENCHMARK (VERTICAL) DATUM BASED ON NAVD88(GEIOD12A), HORIZONTAL DATUM BASED ON NAD83(2011).

**BASIS FOR EXISTING RIGHT OF WAY:**  
 STANLEY SUBDIVISION BK. 18, PG. 28  
 EAST PERKINS AVENUE (C.R. 5) SIGNALS (2006) PLANS  
 STRUB ROAD TURN LANE (2000)  
 ERIE COUNTY COMMISSIONERS JOURNAL DATED MARCH 7, 1843  
 RECORDED DEEDS AND EASEMENTS OF RECORD

NATHANIEL B. RAMSEY, P.S. 8396  
 DATE 04/21/2021

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HV\HY-281-RW001.dwg, RCO001, Apr 23, 2021 - 11:25am



# ERI-PERKINS TOWNSHIP SRTS

NAME	Alignment Name	STATION	OFFSET (usft)	RT/LT	NORTH (usft)(Ground)	EAST (usft)(Ground)	ELEVATION (usft)	FEATURE	DESCRIPTION	NAME	NORTH (m) STATE PLANE	EAST (m) STATE PLANE	ORTHO HT (m)	NORTH (usft)	EAST (usft)
<i>Primary Control Points</i>					<i>PROJECT GROUND (PAF=1.000069421 GRID TO GROUND)</i>					<i>Primary Control Points</i>					
CP01	EAST STRUB RD	2+36.03	11.52	LT	640714.0091	1921674.7549	593.2340	PUNCHS	PUNCH MARK ON WEST SIDE OF WATER MANHOLE	CP01	195276.4642	585686.9776	180.818	640669.5330	1921541.3590
CP02	EAST STRUB RD	8+27.69	21.82	LT	641082.1637	1922138.0921	588.6010	PUNCHS	PUNCH MARK ON NORTH SIDE OF WATER MANHOLE	CP02	195388.6702	585828.1932	179.406	641037.6620	1922004.6640
CP03	EAST STRUB RD	11+12.88	15.43	RT	641226.1177	1922387.1074	590.1120	PUNCHS	PUNCH MARK ON SOUTH SIDE OF SANITARY MANHOLE	CP03	195432.5444	585904.0880	179.866	641181.6060	1922253.6620
CP04	EAST STRUB RD	15+71.99	20.23	RT	641518.1299	1922746.3013	590.5470	MAGS	MAGNAIL SET IN CONCRETE ISLAND	CP04	195521.5437	586013.5629	179.999	641473.5980	1922612.8310
CP05	EAST STRUB RD	19+60.94	23.43	RT	641866.5171	1922927.9659	586.1190	MAGS	MAGNAIL SET IN CONCRETE CURB	CP05	195627.7250	586068.9306	178.649	641821.9610	1922794.4830
CP06	EAST PERKINS AVE	513+45.37	27.30	LT	641710.7703	1923413.7936	579.8060	PUNCHS	PUNCH MARK ON TOP OF GUARDRAIL	CP06	195580.2565	586217.0009	176.725	641666.2250	1923280.2770
CP07	EAST PERKINS AVE	524+37.48	27.67	LT	641193.1864	1924377.1175	591.0810	IPINS	5/8" REBAR SET W/ I.D. CAP MARKED KEM CONTROL	CP07	195422.5076	586510.6022	180.162	641148.6770	1924243.5340
CP08	EAST PERKINS AVE	529+25.98	21.41	LT	640934.3974	1924791.5173	584.9840	MAGS	MAGNAIL SET IN EDGE OF PAVEMENT	CP08	195343.6340	586636.9027	178.303	640889.9060	1924657.9050
CP09	EAST PERKINS AVE	534+52.32	16.18	RT	640629.1842	1925222.0252	589.1870	MAGS	MAGNAIL SET IN EDGE OF PAVEMENT	CP09	195250.6113	586768.1127	179.585	640584.7140	1925088.3830
BM01	EAST STRUB RD	4+24.17	18.96	LT	640834.3825	1921819.5550	592.3500	BM	FRONT FLANG BOLT OF FIRE HYDRANT	BM01	195313.1515	585731.1097	180.549	640789.8980	1921686.1490
BM02	EAST STRUB RD	19+68.32	41.73	RT	641865.5201	1922947.6673	586.5910	BM	TOP NORTHEAST BOLT OF SIGNAL POLE	BM02	195627.4211	586074.9351	178.793	641820.9640	1922814.1830
BM03	EAST PERKINS AVE	513+87.30	5.72	RT	641663.0200	1923437.6503	580.3040	BM	BENCHMARK DISC	BM03	195565.7032	586224.2719	176.877	641618.4780	1923304.1320
BM04	EAST PERKINS AVE	524+77.42	28.16	RT	641124.7256	1924382.2919	592.5000	BM	TOP EAST BOLT OF SIGNAL POLE	BM04	195401.6422	586512.1792	180.594	641080.2210	1924248.7080
<i>EAST STRUB ROAD MONUMENTATION/ALIGNMENT</i>										<i>EAST STRUB ROAD MONUMENTATION/ALIGNMENT</i>					
MN01	EAST STRUB RD	2+52.77	0.00	RT	640715.0562	1921695.0473		MONBOX	1" IRON PIN IN MONUMENT BOX	MN01	195276.7833	585693.1623		640670.5800	1921561.6500
MN02	EAST STRUB RD	14+33.32	0.00	RT	641433.3261	1922632.0524		CALPT	POINT OF CURVATURE	MN02	195495.6972	585978.7422		641388.8000	1922498.5900
MN03	EAST STRUB RD	15+66.06	16.42	RT	641515.6918	1922739.4988		MONBOX	1" IRON PIN IN MONUMENT BOX	MN03	195520.8006	586011.4900		641471.1600	1922606.0300
MN04	EAST STRUB RD	16+98.80	0.00	RT	641638.5303	1922796.4438		CALPT	POINT OF TANGENCY	MN04	195558.2393	586028.8453		641593.9900	1922662.9700
MN05	EAST STRUB RD	20+00.00	0.00	RT	641911.8093	1922923.1326		MONBOX	1" IRON PIN IN MONUMENT BOX	MN05	195641.5291	586067.4575		641867.2500	1922789.6500
<i>PERKINS AVENUE MONUMENTATION/ALIGNMENT</i>										<i>PERKINS AVENUE MONUMENTATION/ALIGNMENT</i>					
MN05	EAST PERKINS AVE	508+15.86	0.00	RT	641911.8093	1922923.1326		MONBOX	1" IRON PIN IN MONUMENT BOX	MN05	195641.5291	586067.4575		641867.2500	1922789.6500
MN06	EAST PERKINS AVE	518+86.53	0.00	RT	641455.3676	1923891.7098		MONBOX	1" IRON PIN IN MONUMENT BOX	MN06	195502.4150	586362.6599		641410.8400	1923758.1600
MN07	EAST PERKINS AVE	536+41.70	0.00	RT	640544.7644	1925392.3240		MONBOX	EXISTING MONUMENT BOX-UNABLE TO OPEN	MN07	195224.8819	586820.0163		640500.3000	1925258.6700
<i>EXISTING MONUMENTS FOUND (STATIONING FROM CENTERLINE)</i>										<i>EXISTING MONUMENTS FOUND (STATIONING FROM CENTERLINE)</i>					
MN08	EAST STRUB RD	1+19.01	25.00	RT	640613.8292	1921604.0910			5/8" REBAR IN CONCRETE FOUND	MN08	195245.9314	585665.4407		640569.3600	1921470.7000
MN09	EAST STRUB RD	3+58.83	24.71	RT	640759.9693	1921794.2542			5/8" REBAR W/CAP STAMPED "HARTUNG"	MN09	195290.4719	585723.3985		640715.4900	1921660.8500
MN10	EAST STRUB RD	9+46.70	25.05	LT	641157.1369	1922230.5845			1" PIPE-BENT	MN10	195411.5204	585856.3830		641112.6300	1922097.1500
MN11	EAST STRUB RD	12+27.03	25.13	LT	641327.7587	1922453.0299			3/4" PIPE-BENT	MN11	195463.5225	585924.1798		641283.2400	1922319.5800
MN12	EAST STRUB RD	13+27.18	26.47	LT	641389.7630	1922531.7054			5/8" REBAR	MN12	195482.4201	585948.1585		641345.2400	1922398.2500
MN13	EAST STRUB RD	16+36.47	19.62	LT	641593.7872	1922750.3306			5/8" REBAR	MN13	195544.6025	586014.7910		641549.2500	1922616.8600
MN14	EAST PERKINS AVE	505+16.70	25.08	LT	642062.0397	1922663.1845			5/8" REBAR W/CAP STAMPED "BAHAKOSLU"	MN14	195687.3162	585988.2306		642017.4700	1922529.7200
MN14	EAST PERKINS AVE	517+51.08	24.88	RT	641490.6000	1923758.5706			1" PIPE	MN14	195513.1532	586322.0818		641446.0700	1923625.0300
MN15	EAST PERKINS AVE	518+87.93	24.96	RT	641433.3060	1923879.9590			CRIMPED TOP PIPE	MN15	195495.6911	586359.0785		641388.7800	1923746.4100
MN17	EAST PERKINS AVE	533+13.94	29.89	RT	641052.4396	1924510.9728			5/8" REBAR W/CAP STAMPED "BAHAKOSLU"	MN17	195268.9195	586729.8837		640644.7800	1924962.9600
MN18	EAST PERKINS AVE	535+49.03	30.02	LT	640689.2544	1925096.5935			CRIMPED TOP PIPE	MN18	195247.3548	586800.6187		640574.0300	1925195.0300
MN19	EAST PERKINS AVE	537+74.70	30.00	LT	640501.4214	1925521.6130			5/8" REBAR W/CAP STAMPED "BEN W. BUSER"	MN19	195211.6718	586859.4209		640456.9600	1925387.9500

**HORIZONTAL AND VERTICAL DATUM**  
 ALL ELEVATIONS SHOWN ARE ORTHOMETRIC HEIGHTS USING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND THE GEOID12 GEOID. HORIZONTAL POSITIONS ARE BASED ON THE OHIO STATE PLANE NORTH ZONE, A LAMBERT CONFORMAL CONIC MAP PROJECTION, THE NORTH AMERICAN DATUM OF 1983 (NAD 83 (2011)), AND THE GRS80 ELLIPSOID.

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281-Perkins Township SRTS\Bases\HY-281-FW001.dwg\RTD001 Apr 23, 2021 - 12:18pm

PID NO. 105034  
R/W DESIGNER MDD  
R/W REVIEWER NBR

RIGHT OF WAY CENTERLINE PLAT TABLE

ERI-PERKINS TOWNSHIP SRTS



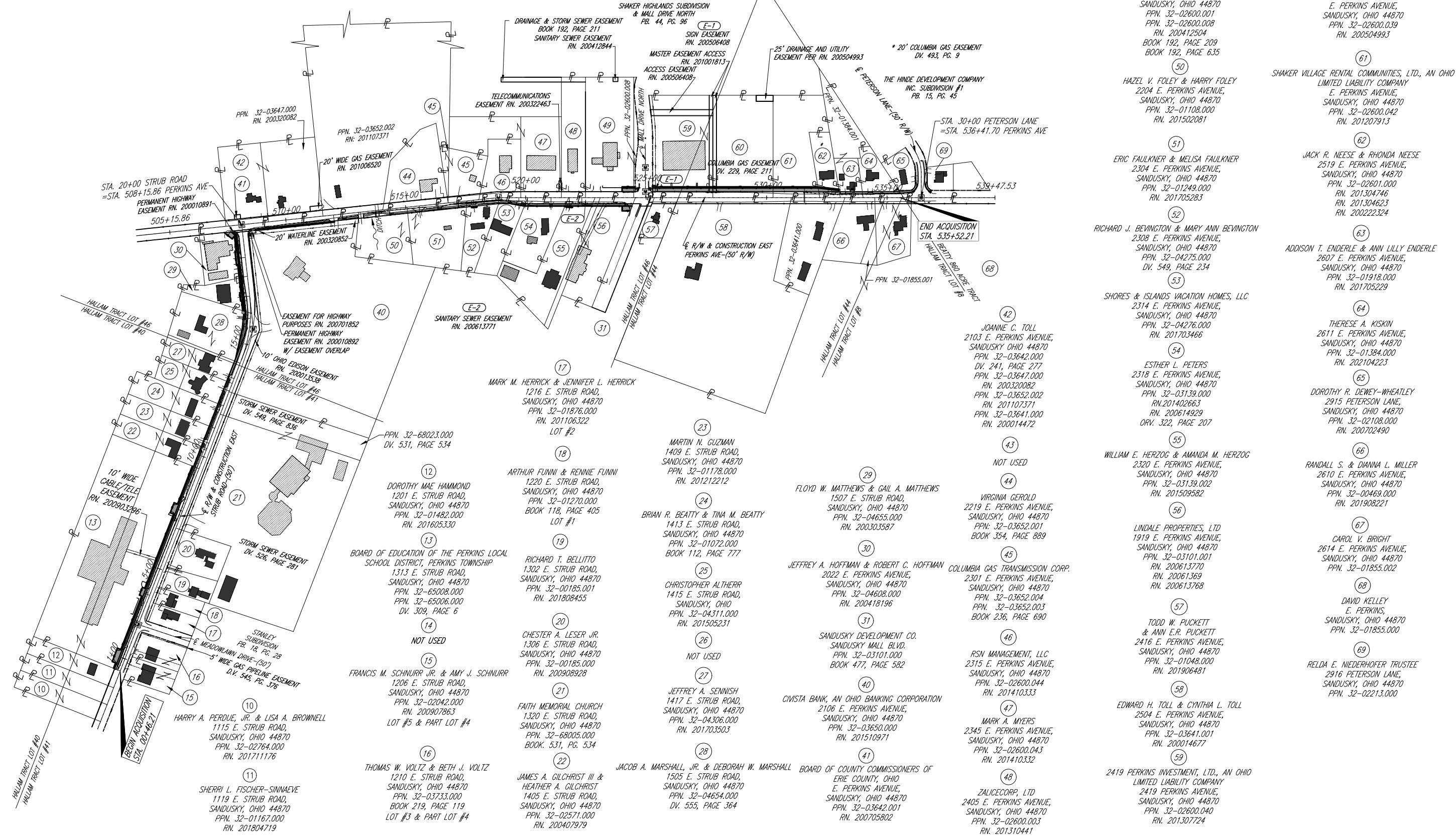
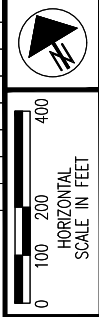
**NOTE:**  
ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.  
FROM START OF CONSTRUCTION.

UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS  
TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT  
BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

NBR	5/27/21	OWNER 64 UPDATED DUE TO TRANSFER
REV. BY	DATE	DESCRIPTION
DATE COMPLETED: 02/09/2021		



PID NO. 105034  
R/W DESIGNER MDD  
R/W REVIEWER NBR

PROPERTY MAP

ERI-PERKINS TOWNSHIP SRTS

4 / 24

59  
79

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg, RWFS001, May 27, 2021 - 8:44am

NOTE:  
ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.  
FROM START OF CONSTRUCTION.

UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS  
TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT  
BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

(c.) = CALCULATED AREA  
\* = DENOTES RIGHT OF WAY ENCROACHMENT  
SH = STANDARD HIGHWAY EASEMENT  
T = TEMPORARY EASEMENT

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

TOTAL NUMBER OF:  
15 OWNERS 0 TOTAL TAXES  
26 PARCELS 0 OWNERSHIPS W/STRUCTURES INVOLVED

NET TAKE = GROSS TAKE - PRO IN TAKE  
NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

REV. BY	DATE	DESCRIPTION
DATE COMPLETED: 02/09/2021		

GRANTEE:  
RIGHT OF WAY FOR PARCELS 10-30 AND ALL TEMPORARY PARCELS SHALL BE ACQUIRED  
IN THE NAME OF THE BOARD OF PERKINS TOWNSHIP TRUSTEES, ALL OTHER RIGHT OF  
WAY SHALL BE ACQUIRED IN THE NAME OF THE BOARD OF COUNTY COMMISSIONERS OF  
ERIE COUNTY, OHIO UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
											LEFT	RIGHT			BOOK	PAGE
1-9	NOT USED												LOCAL			
10	HARRY A. PERDUE, JR. & LISA A. BROWNELL	4	RN. 201711176	32-02764.000	0.6700									NO ADDITIONAL RIGHT OF WAY REQUIRED		
11	SHERRI L. FISCHER-SINNAEVE	4	RN. 201804719	32-01167.000	0.6700									NO ADDITIONAL RIGHT OF WAY REQUIRED		
12	DOROTHY MAE HAMMOND	4,7,8	RN. 201605330	32-01482.000	0.6700									NO ADDITIONAL RIGHT OF WAY REQUIRED		
13-T	BOARD OF EDUCATION OF THE PERKINS LOCAL SCHOOL DISTRICT, PERKINS TOWNSHIP, ERIE COUNTY, OHIO	4,7,8, 9,10	DV. 309, PG. 06	32-65006.000 32-65008.000	3.8400 4.1600		0.1476							TO PERFORM GRADING, CABLE/TELE EASEMENT OVERLAP (0.0012 AC.), GRANTEE: PERKINS TWP. *PORTION OF LANDSCAPING & SIGN ENCROACHING		
14	NOT USED															
15	FRANCIS M. SCHNURR JR. & AMY J. SCHNURR	4,7,8	RN. 200907863	32-02042.000	0.4585 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
16	THOMAS W. VOLTZ & BETH J. VOLTZ	4,7,8	BK 219, PG. 119	32-03733.000	0.5044 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
17	MARK M. HERRICK & JENNIFER L. HERRICK	4,7,8	RN. 201106322	32-01876.000	0.3668 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
18	ARTHUR FUNNI & RENNIE FUNNI	4,7,8	DV. 118, PG. 405	32-01270.000	0.3210 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
19	RICHARD T. BELLITTO	4,7,8	RN. 201808455	32-00185.001	0.4712 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
20	CHESTER A. LESER JR.	4,7,8,9,10	RN. 200908928	32-00185.000	0.7957 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
21	FAITH MEMORIAL CHURCH	4,9,10,11,12	DV. 415, PG. 305	32-68005.000	10.2900									NO ADDITIONAL RIGHT OF WAY REQUIRED		
22	JAMES A. GILCHRIST III & HEATHER A. GILCHRIST	4,9,10	RN. 200407979	32-02571.000	0.8000									NO ADDITIONAL RIGHT OF WAY REQUIRED		
23	MARTIN N. GUZMAN	4,9,10	RN. 201212212	32-01178.000	0.7990									NO ADDITIONAL RIGHT OF WAY REQUIRED		
24	BRIAN R. BEATTY & TINA M. BEATTY	4,9,10,11,12	BK. 112, PG. 777	32-01072.000	0.8878 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
25	CHRISTOPHER ALTHERR	4,11,12	RN. 201505231	32-04311.000	0.7100									NO ADDITIONAL RIGHT OF WAY REQUIRED		
26	NOT USED															
27	JEFFREY A. SENNISH	4,11,12	RN. 201703503	32-04306.000	0.6600									NO ADDITIONAL RIGHT OF WAY REQUIRED		
28-SH 28-T	JACOB A. MARSHALL, JR. & DEBORAH W. MARSHALL	4,11,12	DV. 555, PG. 364	32-04654.000 32-04654.000	1.4800	0.1149	0.0489 0.0015	0.0000	0.0489		1.3162			REMOVE 14 L.F. SPLIT RAIL FENCE, REMOVE BUSH TO PERFORM GRADING GRANTEE: PERKINS TWP.		
29-SH 29-T	FLOYD W. MATTHEWS & GAIL A. MATTHEWS	4,11,12,13,14	RN. 200303587	32-04655.000 32-04655.000	0.5300	0.0857	0.0162 0.0204	0.0000	0.0162		0.4281			GRANTEE: PERKINS TWP. TO PERFORM GRADING GRANTEE: PERKINS TWP.		
30-SH 30-T	JEFFREY A. HOFFMAN & ROBERT C. HOFFMAN	4,13,14,15,16	RN. 200418196	32-04608.000 32-04608.000	0.9300	0.2158	0.0229 0.0420	0.0000	0.0229		0.6913			GRANTEE: PERKINS TWP. TO PERFORM GRADING GRANTEE: PERKINS TWP.		
31	SANDUSKY DEVELOPMENT CO.	4,19,20	DV. 447, PG. 582	32-03101.000	72.4757									NO ADDITIONAL RIGHT OF WAY REQUIRED		
40-SH	CIVISTA BANK, AN OHIO BANKING CORPORATION	4,11,12,13,14, 15,16,17,18	RN. 201510971	32-03650.000	11.9399	0.6878	0.0378	0.0000	0.0378		11.2143			EXISTING WATERLINE EASEMENT OVERLAP (0.0378 AC.) NO ADDITIONAL RIGHT OF WAY REQUIRED		
41	BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO	4,13,14,15,16	RN. 200705802	32-03642.001	0.0103 (C.)											
42	JOANNE C. TOLL	4,13,14,15,16, 17,18,23,24	DV. 241, PG. 277 RN. 200320082 RN. 201107371 RN. 200014472	32-03642.000 32-03647.000 32-03652.002 32-03641.000	1.3369 (C.) 1.7226 25.6133 1.6644 (C.)									NO ADDITIONAL RIGHT OF WAY REQUIRED		
													LOCAL			

FED. AUTH. NO.	190703
STATE JOB NO.	439184
PID NO.	105034
R/W DESIGNER MDD	
R/W REVIEWER NBR	
SUMMARY OF ADDITIONAL RIGHT OF WAY	
ERI-PERKINS TOWNSHIP SRTS	
	5 / 24
	60 / 79

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PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
											LEFT	RIGHT			BOOK	PAGE
43	NOT USED												LOCAL			
44	VIRGINIA GEROLD	4,17,18	DV. 354, PG. 889	32-03652.001	1.4960									NO ADDITIONAL RIGHT OF WAY REQUIRED		
45	COLUMBIA GAS TRANSMISSION CORP.	4,17,18	DV. 236, PG. 690	32-03652.004 32-03652.003	0.7830 0.1043									NO ADDITIONAL RIGHT OF WAY REQUIRED		
46	RSN MANAGEMENT, LLC	4,17,18,19,20	RN. 201410333	32-02600.044	0.8405									NO ADDITIONAL RIGHT OF WAY REQUIRED		
47	MARK A. MYERS	4,19,20	RN. 201410332	32-02600.043	2.1329									NO ADDITIONAL RIGHT OF WAY REQUIRED		
48	ZALICECORP, LTD	4,19,20	RN. 201310441	32-02600.003	1.1500									NO ADDITIONAL RIGHT OF WAY REQUIRED		
49-SH	VACATIONLAND FEDERAL CREDIT UNION	4,19,20	DV. 192, PG. 209 DV. 192, PG. 635	32-02600.001 32-02600.008	2.2957 +0.1100	0.1148 +0.0037	0.0167 +0.0022	0.0000 +0.0000	0.0167 +0.0022			2.1642 0.1041				
				TOTAL	2.4057	0.1185	0.0189	0.0000	0.0189			TOTAL				
49-T				32-02600.001 32-02600.008			0.0056 +0.0007							TO PERFORM GRADING GRANTEE: PERKINS TWP. PRIVATE SIGN RELOCATION		
				TOTAL			0.0063									
50	HAZEL V. FOLEY & HARRY FOLEY	4,15,16,17,18	RN. 201502081	32-01108.000	1.070									NO ADDITIONAL RIGHT OF WAY REQUIRED		
51	ERIC FAULKNER & MELISA FAULKNER	4,17,18	RN. 201705283		1.3500									NO ADDITIONAL RIGHT OF WAY REQUIRED		
52-T	RICHARD J. BEVINGTON & MARY ANN BEVINGTON	4,17,18	DV. 549, PG. 234	32-04275.000	0.6700		0.0023							TO PERFORM GRADING GRANTEE: PERKINS TWP.		
53-SH	SHORES & ISLANDS VACATION HOMES, LLC. AKA SHORES AND ISLANDS VACATION HOMES, LLC, AN OHIO LIMITED LIABILITY COMPANY	4,17,18,19,20	RN. 201703466	32-04276.000	0.7700	0.0667	0.0069	0.0000	0.0069			0.6964		BLANKET EASEMENT		
54-SH	ESTHER L. PETERS	4,19,20	RN. 201402663 RN. 200614929 ORV. 322, PG. 207	32-03139.000	1.0989	0.0972	0.0388	0.0000	0.0388			0.9629				
55-SH	WILLIAM E. HERZOG AND AMANDA M. HERZOG	4,19,20	RN. 201509582	32-03139.002	1.6377	0.0634	0.0254	0.0000	0.0254			1.5489		EASEMENT OVERLAP		
55-T				32-03139.002			0.0029							TO PERFORM GRADING GRANTEE: PERKINS TWP.		
56-SH	LINDALE PROPERTIES, LTD. AN OHIO LIMITED LIABILITY COMPANY	4,19,20	RN. 200613770 RN. 200613769 RN. 200613768	32-03101.001	1.7000	0.0960	0.0384	0.0000	0.0384			1.5656		EASEMENT OVERLAP		
56-T				32-03101.001			0.0172							TO PERFORM GRADING		
57	TODD W. PUCKETT & ANN E.R. PUCKETT	4,21,22	RN. 201906481	32-01048.000	0.3840									NO ADDITIONAL RIGHT OF WAY REQUIRED		
58	EDWARD H. TOLL & CYNTHIA L. TOLL	4,21,22	RN. 200014677	32-03641.001	10.9500									NO ADDITIONAL RIGHT OF WAY REQUIRED		
59-SH	2419 PERKINS INVESTMENT, LTD., AN OHIO LIMITED LIABILITY COMPANY	4,21,22	RN. 201307724	32-02600.040	2.4649	0.1435	0.0861	0.0000	0.0861			2.2353		EASEMENT OVERLAP		
59-T				32-02600.040			0.0301							TO PERFORM GRADING, EASEMENT OVERLAP GRANTEE: PERKINS TWP.		
60-SH	163 LAND INVESTMENTS, LTD., AN OHIO LIMITED LIABILITY COMPANY	4,21,22	RN. 200504993	32-02600.039	2.4392	0.1435	0.0861	0.0000	0.0861			2.2096		EASEMENT OVERLAP		
60-T				32-02600.039			0.0287							TO PERFORM GRADING EASEMENT OVERLAP, GRANTEE: PERKINS TWP.		
61-SH	SHAKER VILLAGE RENTAL COMMUNITIES, LTD., AN OHIO LIMITED LIABILITY COMPANY	4,21,22,23,24	RN. 201207913	32-02600.042	1.8470	0.1100	0.0648	0.0000	0.0648			1.6722		BLANKET EASEMENT		
61-T				32-02600.042			0.0214							TO PERFORM GRADING, BLANKET EASEMENT GRANTEE: PERKINS TWP.		
62-SH	JACK R. NEESE AND RHONDA L. NEESE	4,23,24	RN. 201304623 RN. 201304746 RN. 200222324	32-02601.000	0.5370	0.0488	0.0195	0.0000	0.0195			0.4687				
62-T							0.0099							EXISTING EASEMENT OVERLAP-TO PERFORM GRADING		
63	ADDISON T. ENDERLE & ANN LILLY	4,23,24	RN. 201705229	32-01918.000	0.3600									NO ADDITIONAL RIGHT OF WAY REQUIRED		
64-T	THERESE A. KISKIN	4,23,24	RN. 202104223	32-01384.000	0.5400		0.0036							TO PERFORM GRADING-REMOVE EX. TREE*-LANDSCAPE BLOCK ENCROACHMENT TO BE REMOVED BY PROPERTY OWNER		
65	DOROTHY R. DEWEY-WHEATLEY	4,23,24	RN. 200702490	32-02108.000	0.3707									NO ADDITIONAL RIGHT OF WAY REQUIRED- ENCROACHMENT OF WOOD FENCE INTO EXISTING RIGHT OF WAY		
66	RANDALL S. MILLER & DIANNA L. MILLER	4,23,24	RN. 201908221	32-00469.000 32-01855.001	1.0900 0.1400									NO ADDITIONAL RIGHT OF WAY REQUIRED		
67	CAROL V. BRIGHT	4,23,24	RN. 200511577	32-01855.002	0.8700									NO ADDITIONAL RIGHT OF WAY REQUIRED		
68	DAVID KELLEY	4,23,24		32-01855.000										NO ADDITIONAL RIGHT OF WAY REQUIRED		
69	REIDA E. NIEDERHOFER TRUSTEE	4,23,24	DV. 175, PG. 693	32-02213.000	0.5570								LOCAL	NO ADDITIONAL RIGHT OF WAY REQUIRED		

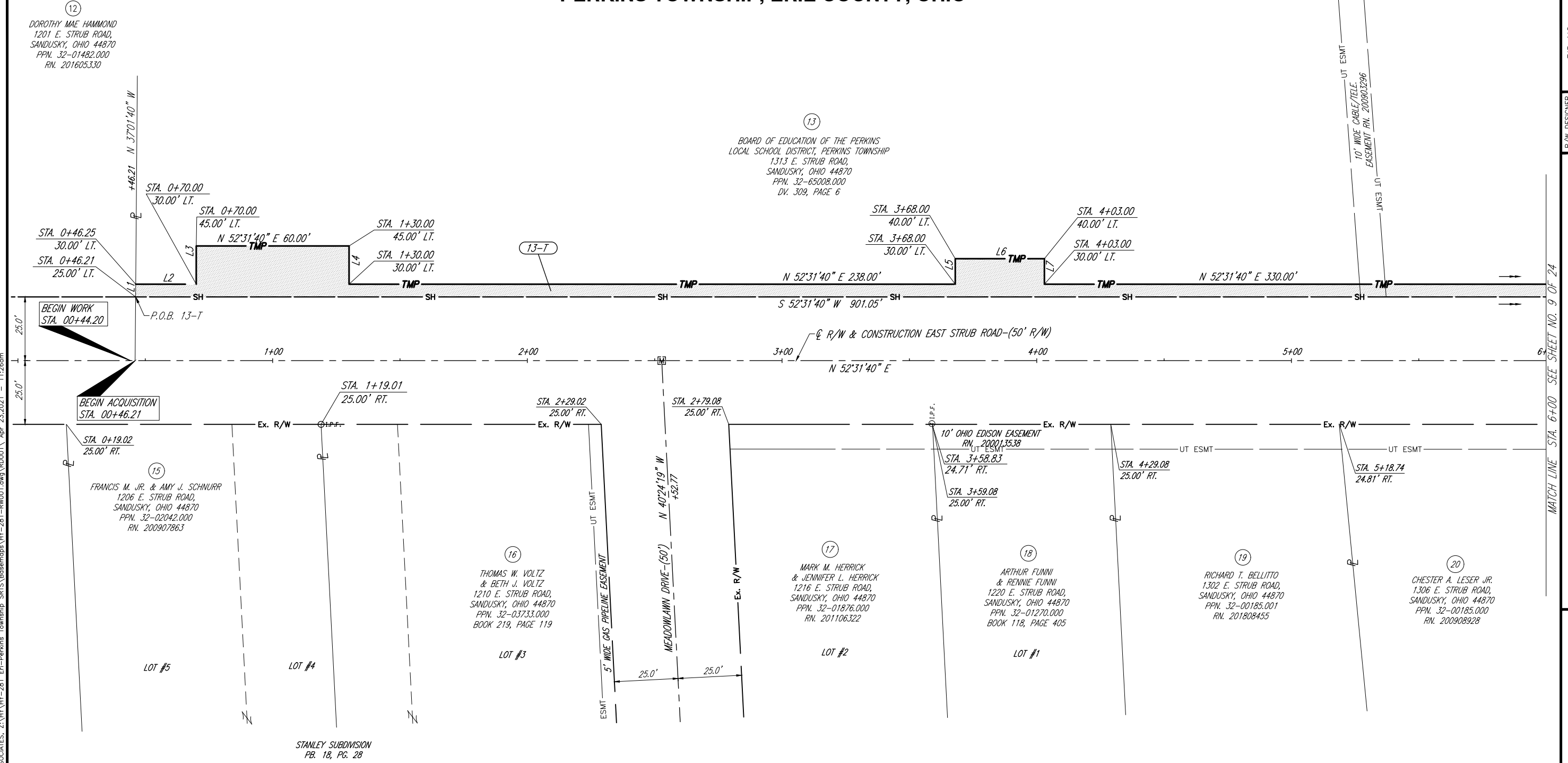
FED. AUTH. NO.	190703
STATE JOB NO.	439184
PID NO.	105034
R/W DESIGNER MDD	
R/W REVIEWER NBR	
SUMMARY OF ADDITIONAL RIGHT OF WAY	
ERI-PERKINS TOWNSHIP SRIS	
6 / 24	61 79

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 8 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.

LINE	BEARING	DISTANCE
L1	N 37°01'40" W	5.00'
L2	N 52°31'40" E	23.75'
L3	N 37°28'20" W	15.00'
L4	S 37°28'20" E	15.00'
L5	N 37°28'20" W	10.00'
L6	N 52°31'40" E	35.00'
L7	S 37°28'20" E	10.00'



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PID NO. 105034

R/W DESIGNER MDD  
R/W REVIEWER NBR

**RIGHT OF WAY BOUNDARY SHEET - STRUB ROAD**  
STA. 0+00 TO STA. 6+00

**ERI-PERKINS TOWNSHIP SRTS**

7 / 24

62  
79

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 02/09/2021

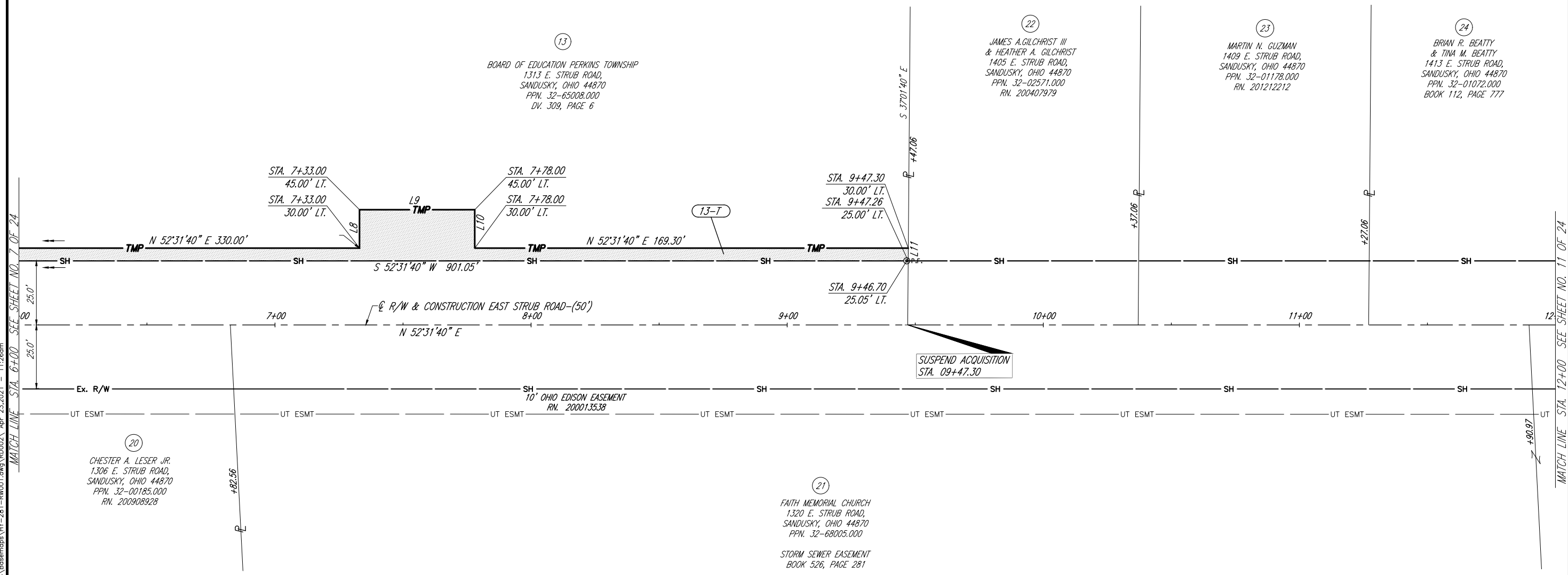


# ERI-PERKINS TOWNSHIP SRTS

PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46,  
 SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF  
 BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W,  
 THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE  
 PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
 TOPOGRAPHY SHEET NO. 10 OF 24  
 FOR TOPOGRAPHY AND  
 PROPOSED PROJECT DATA.

LINE	BEARING	DISTANCE
L8	N 37°28'20" W	15.00'
L9	N 52°31'40" E	45.00'
L10	S 37°28'20" E	15.00'
L11	S 37°01'40" E	5.00'



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MATCH LINE STA. 6+00 SEE SHEET NO. 7 OF 24

MATCH LINE STA. 12+00 SEE SHEET NO. 11 OF 24

  
 HORIZONTAL SCALE IN FEET

R/W DESIGNER MDD	PID NO. 105034
R/W REVIEWER NBR	

RIGHT OF WAY BOUNDARY SHEET - STRUB ROAD  
 STA. 6+00 TO STA. 12+00

ERI-PERKINS  
 TOWNSHIP SRTS

REV. BY	DATE	DESCRIPTION		
	02/09/2021			
DATE COMPLETED				

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
BOUNDARY SHEET NO. 9 OF 24  
FOR PARCEL BOUNDARY DATA.



PID NO. 105034

R/W DESIGNER MDD

R/W REVIEWER NBR

RIGHT OF WAY TOPOGRAPHY SHEET  
STRUB ROAD STA. 6+00 TO STA. 12+00

ERI-PERKINS  
TOWNSHIP SRTS

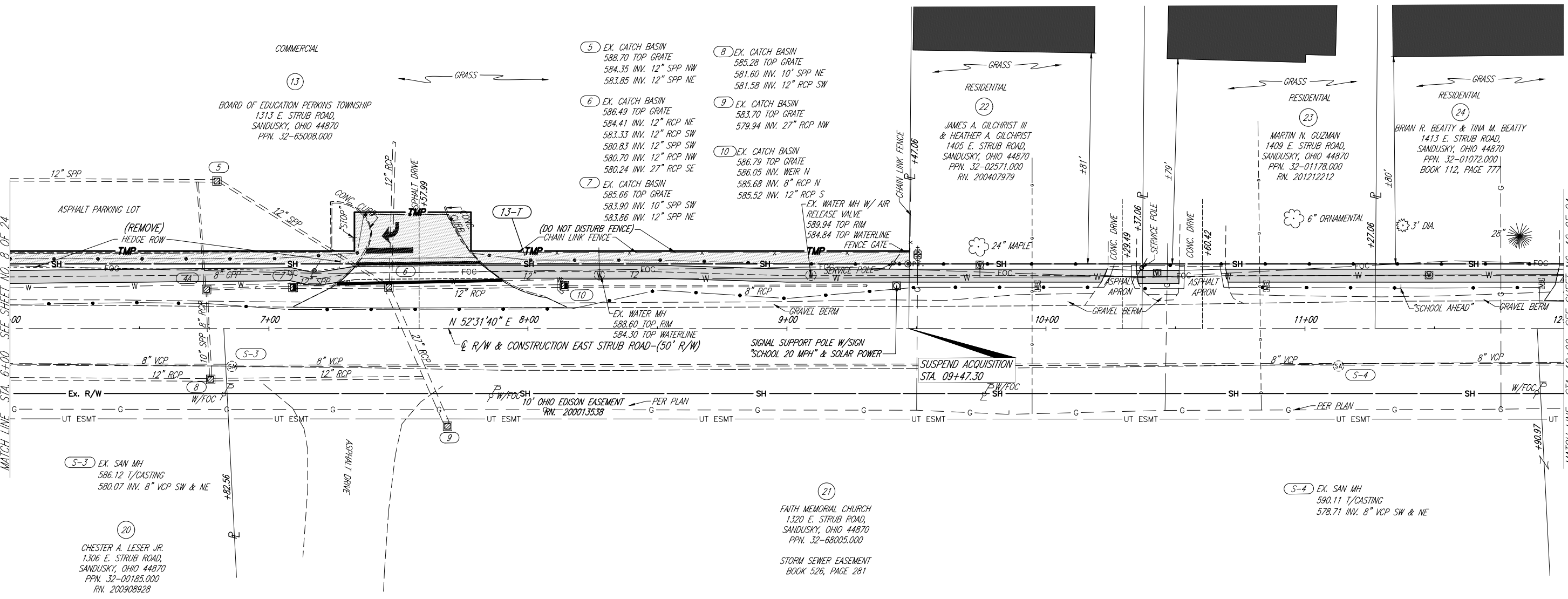
10 / 24

65  
79

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg\RD002(CT). Apr 23, 2021 - 11:26am

MATCH LINE STA. 6+00 SEE SHEET NO. 8 OF 24

MATCH LINE STA. 12+00 SEE SHEET NO. 12 OF 24



REV. BY	DATE	DESCRIPTION

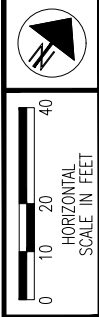
DATE COMPLETED 02/09/2021

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

LINE	BEARING	DISTANCE
L12	S 41°17'25" E	5.47'
L13	S 36°58'08" W	10.05'
L14	N 41°17'25" W	6.64'
L15	N 38°21'36" E	10.00'
L16	S 41°17'25" E	6.39'
L18	N 65°07'45" W	4.82'
L19	N 24°52'15" E	35.00'

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 12 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.



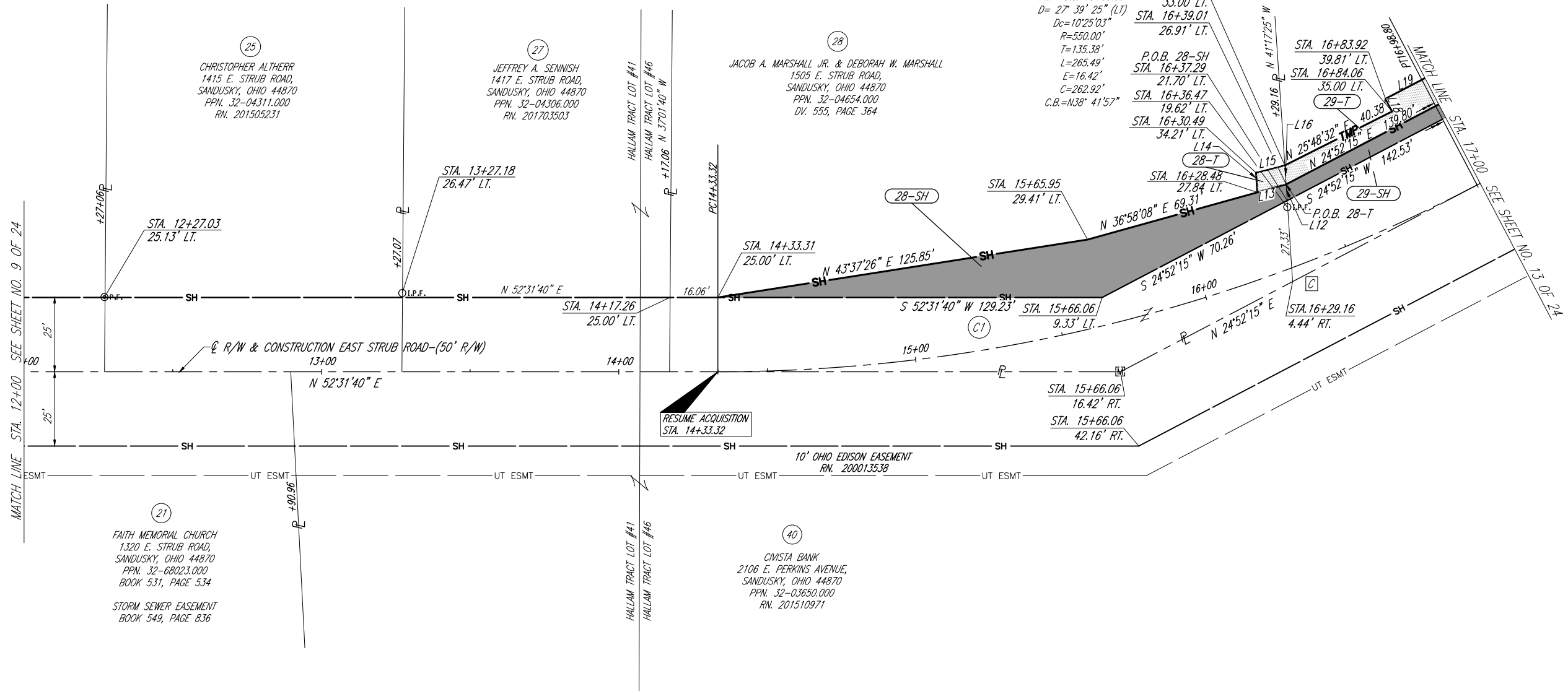
24  
BRIAN R. BEATTY  
& TINA M. BEATTY  
1413 E. STRUB ROAD,  
SANDUSKY, OHIO 44870  
PPN. 32-01072.000  
BOOK 112, PAGE 777

25  
CHRISTOPHER ALTHERR  
1415 E. STRUB ROAD,  
SANDUSKY, OHIO 44870  
PPN. 32-04311.000  
RN. 201505231

27  
JEFFREY A. SENNISH  
1417 E. STRUB ROAD,  
SANDUSKY, OHIO 44870  
PPN. 32-04306.000  
RN. 201703503

28  
JACOB A. MARSHALL JR. & DEBORAH W. MARSHALL  
1505 E. STRUB ROAD,  
SANDUSKY, OHIO 44870  
PPN. 32-04654.000  
DV. 555, PAGE 364

29  
FLOYD W. MATTHEWS & GAIL A. MATTHEWS  
1507 E. STRUB ROAD,  
SANDUSKY, OHIO 44870  
PPN. 32-04655.000  
RN. 200303587



C1  
CURVE DATA  
@ R/W E. STRUB RD.  
P.I. = Sta. 15+66.06  
D = 27° 39' 25" (LT)  
Dc = 1025' 03"  
R = 550.00'  
T = 135.38'  
L = 265.49'  
E = 16.42'  
C = 262.92'  
C.B. = N38° 41' 57"

STA. 16+41.07  
33.00 LT.  
STA. 16+39.01  
26.91' LT.  
P.O.B. 28-SH  
STA. 16+37.29  
21.70' LT.  
STA. 16+36.47  
19.62' LT.  
STA. 16+30.49  
34.21' LT.  
L14  
28-T  
STA. 16+28.48  
27.84' LT.  
L15  
N 36°58'08" E 69.31'  
S 24°52'15" W 70.26'  
L16  
N 25°48'32" E 40.38'  
S 24°52'15" W 142.53'  
L19  
N 41°17'25" W 139.80'  
N 24°52'15" E 142.53'  
P.O.B. 28-T  
L12  
STA. 16+83.92  
39.81' LT.  
STA. 16+84.06  
35.00 LT.  
29-T  
29-SH  
STA. 16+29.16  
4.44' RT.

LEAD IN TABLE

LINE	BEARING	DISTANCE	COMMENT
A-C	S 24°52'15" W	371.21'	LEAD IN 28-SH

RIGHT OF WAY BOUNDARY SHEET - STRUB ROAD  
STA. 12+00 TO STA. 17+00

ERI-PERKINS  
TOWNSHIP SRTS

11 / 24

66  
79

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 02/09/2021

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg\RD003, Apr 23, 2021 - 11:26am



**ERI-PERKINS TOWNSHIP SRTS**  
**PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46,**  
**SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF**  
**BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W,**  
**THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE**  
**PERKINS TOWNSHIP, ERIE COUNTY, OHIO**

SEE RIGHT OF WAY PLAN  
 BOUNDARY SHEET NO. 11 OF 24  
 FOR PARCEL BOUNDARY DATA.



HORIZONTAL  
 SCALE IN FEET  
 0 10 20 40

PID NO.  
105034

R/W DESIGNER MDD  
 R/W REVIEWER NBR

**RIGHT OF WAY TOPOGRAPHY SHEET**  
**STRUB ROAD STA. 12+00 TO STA. 17+00**

**ERI-PERKINS**  
**TOWNSHIP SRTS**

12 / 24

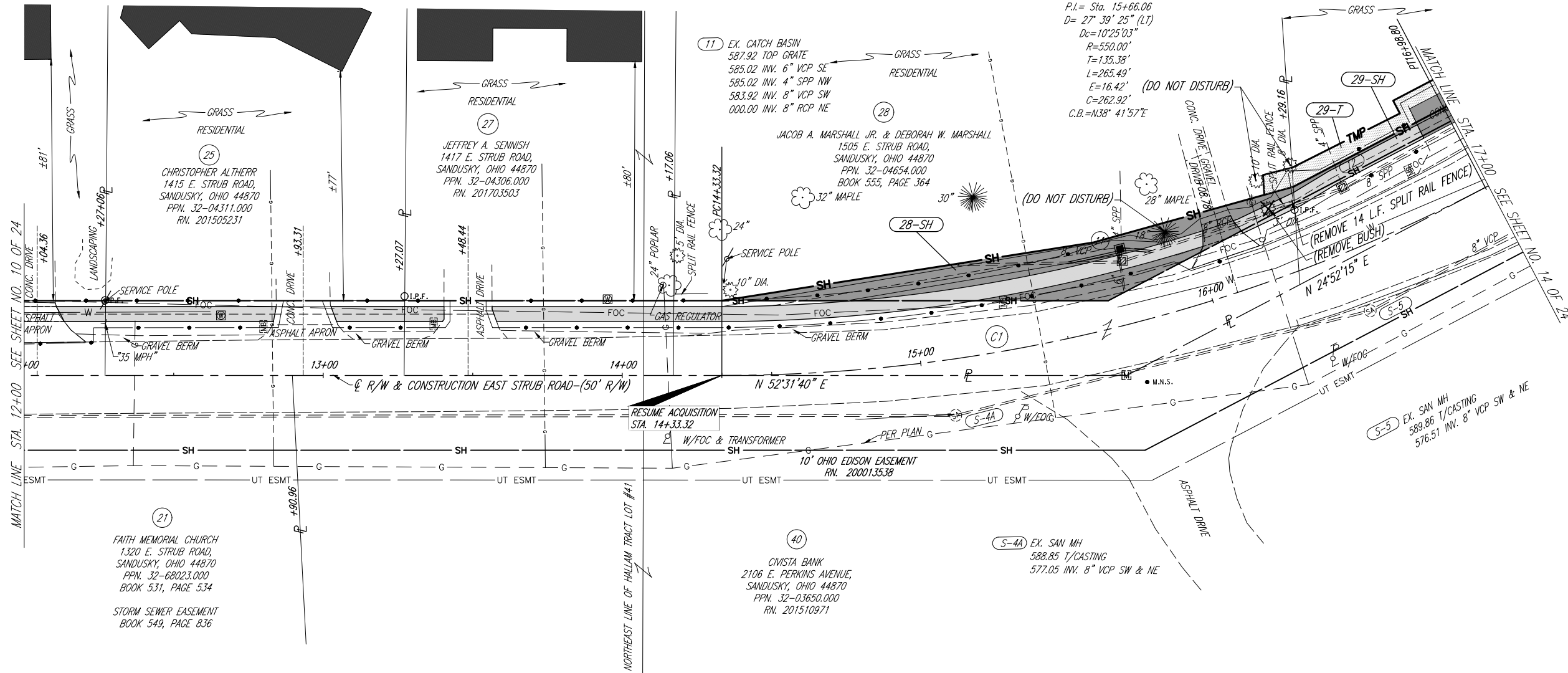
67  
79

RESIDENTIAL

24  
 BRIAN R. BEATTY & TINA M. BEATTY  
 1413 E. STRUB ROAD,  
 SANDUSKY, OHIO 44870  
 PPN. 32-01072.000  
 BOOK 112, PAGE 777

RESIDENTIAL

29  
 FLOYD W. MATTHEWS & GAIL A. MATTHEWS  
 1507 E. STRUB ROAD,  
 SANDUSKY, OHIO 44870  
 PPN. 32-04655.000  
 RN. 200303587



**CURVE DATA**  
 E R/W/ E. STRUB RD.  
 ①

**CURVE DATA**  
 P.I. = Sta. 15+66.06  
 D = 27° 39' 25" (LT)  
 Dc = 10'25'0.3"  
 R = 550.00'  
 T = 135.38'  
 L = 265.49'  
 E = 16.42'  
 C = 262.92'  
 C.B. = N38° 41'57"E

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281-Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg\RD003(T)\ Apr 23, 2021 11:26am

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 02/09/2021

# ERI-PERKINS TOWNSHIP SRTS

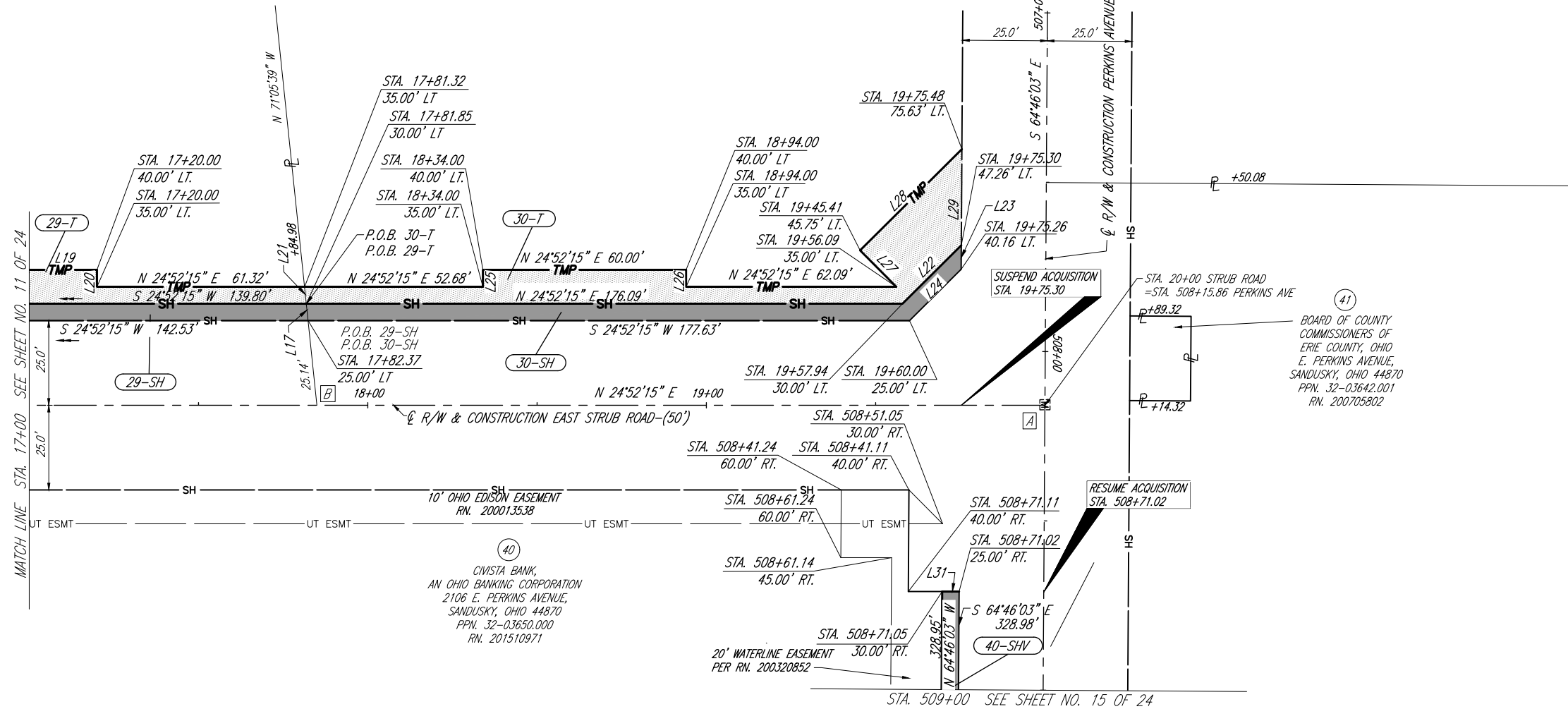
## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 14 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.

LINE	BEARING	DISTANCE
L17	S 71°05'39" E	5.03'
L19	S 24°52'15" W	35.00'
L20	S 65°07'45" E	5.00'
L21	N 71°05'39" W	5.03'
L22	N 19°57'09" W	24.48'
L23	S 64°46'03" E	7.09'
L24	S 19°57'09" E	21.51'
L25	N 65°07'45" W	5.00'
L26	S 65°07'45" E	5.00'
L27	S 70°02'51" W	15.15'
L28	N 19°57'09" W	42.39'
L29	S 64°46'03" E	28.38'
L31	N 24°52'15" E	5.00'

29  
FLOYD W. MATTHEWS & GAIL A. MATTHEWS  
1507 E. STRUB ROAD,  
SANDUSKY, OHIO 44870  
PPN. 32-04655.000  
RN. 200303587

30  
JEFFREY A. HOFFMAN & ROBERT C. HOFFMAN  
2022 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-04608.000  
RN. 200418196



41  
BOARD OF COUNTY  
COMMISSIONERS OF  
ERIE COUNTY, OHIO  
E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03642.001  
RN. 200705802

42  
JOANNE C. TOLL  
2103 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03642.000  
BOOK 241, PAGE 277

40  
CIVISTA BANK,  
AN OHIO BANKING CORPORATION  
2106 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03650.000  
RN. 201510971

LEAD IN TABLE			
LINE	BEARING	DISTANCE	COMMENT
A-B	S 24°52'15" W	215.02'	LEAD IN 29-SH LEAD IN 30-SH



PID NO. 105034

R/W DESIGNER MDD  
R/W REVIEWER NBR

RIGHT OF WAY BOUNDARY SHEET - STRUB ROAD  
STA. 17+00 TO STA. 509+00

ERI-PERKINS  
TOWNSHIP SRTS

13 / 24

68  
79

REV. BY	DATE	DESCRIPTION

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg\RD004, Apr 23, 2021 - 11:26am

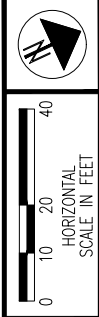
MATCH LINE STA. 17+00 SEE SHEET NO. 11 OF 24

STA. 509+00 SEE SHEET NO. 15 OF 24

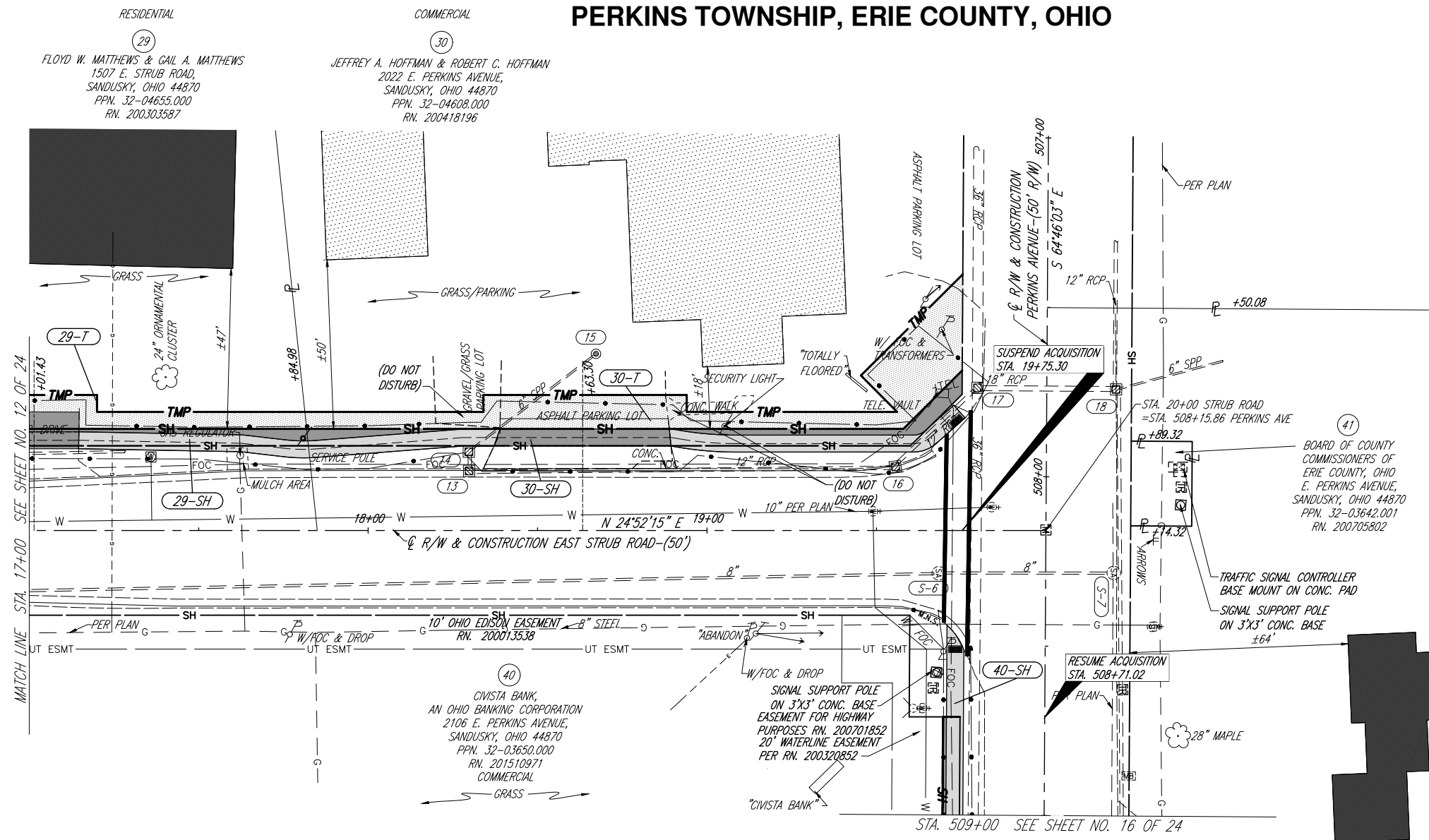
# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
BOUNDARY SHEET NO. 13 OF 24  
FOR PARCEL BOUNDARY DATA.



- 13 EX. CATCH BASIN  
587.73 TOP GRATE  
581.83 INV. 12" RCP NW  
581.78 INV. 12" RCP NE
- 15 EX. RISER  
586.25 TOP GRATE  
584.38 INV. 6" SPP SE
- 14 EX. CATCH BASIN  
586.56 TOP GRATE  
581.93 INV. 12" RCP NW  
584.20 INV. 6" SPP SE
- 16 EX. CATCH BASIN  
585.84 TOP GRATE  
580.89 INV. 12" RCP SW & NW



- 17 EX. CATCH BASIN  
585.65 TOP GRATE  
579.95 INV. 12" RCP SE  
577.55 INV. 18" RCP NE  
574.65 INV. 36" RCP NW & SE
- 19 EX. CATCH BASIN  
583.92 TOP GRATE  
575.22 INV. 8" RCP SW
- 18 EX. CATCH BASIN  
586.09 TOP GRATE  
583.24 INV. 6" SPP N  
579.49 INV. 12" RCP NW  
579.39 INV. 12" RCP SE  
578.59 INV. 18" RCP SW
- 20 EX. CATCH BASIN  
583.57 TOP GRATE  
574.62 INV. 12" RCP NE  
574.57 INV. 36" RCP NW & SE

MATCH LINE STA. 17+00 SEE SHEET NO. 12 OF 24

STA. 509+00 SEE SHEET NO. 16 OF 24

PID NO. 105034

R/W DESIGNER MDD  
R/W REVIEWER NBR

RIGHT OF WAY TOPOGRAPHY SHEET  
STRUB ROAD STA. 17+00 TO STA. 509+00

ERI-PERKINS  
TOWNSHIP SRTS

14 / 24

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		02/09/2021

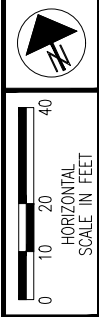
69  
79

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 16 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.

LINE	BEARING	DISTANCE
L22	N 19°57'09" W	24.48'
L23	S 64°46'03" E	7.09'
L24	S 19°57'09" E	21.51'
L27	S 70°02'51" W	15.15'
L28	N 19°57'09" W	42.39'
L29	S 64°46'03" E	28.38'
L30	S 25°13'57" W	5.00'
L31	N 24°52'15" E	5.00'

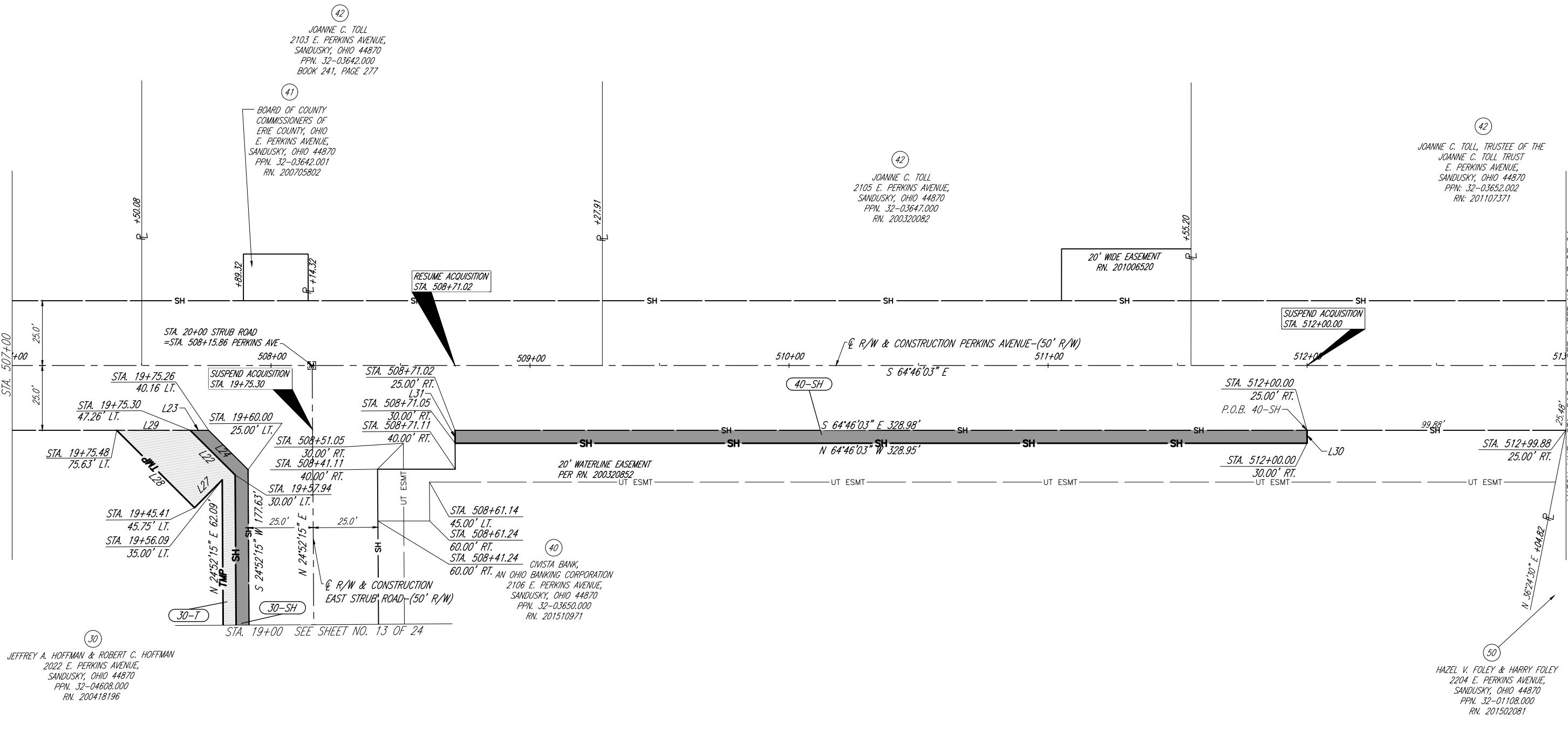


PID NO.  
105034

R/W DESIGNER  
MDD

R/W REVIEWER  
NBR

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281-ERI-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg, Apr. 23, 2021 - 11:26am



MATCH LINE STA. 513+00 SEE SHEET NO. 17 OF 24

RIGHT OF WAY BOUNDARY SHEET - PERKINS AVE  
STA. 507+00 TO STA. 513+00

JEFFREY A. HOFFMAN & ROBERT C. HOFFMAN  
2022 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-04608.000  
RN. 200418196

JOANNE C. TOLL  
2103 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03642.000  
BOOK 241, PAGE 277

BOARD OF COUNTY COMMISSIONERS OF ERIE COUNTY, OHIO  
E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03642.001  
RN. 200705802

JOANNE C. TOLL  
2105 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03647.000  
RN. 200320082

JOANNE C. TOLL, TRUSTEE OF THE  
JOANNE C. TOLL TRUST  
E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03652.002  
RN. 201107371

CIVISTA BANK,  
AN OHIO BANKING CORPORATION  
2106 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03650.000  
RN. 201510971

HAZEL V. FOLEY & HARRY FOLEY  
2204 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-01108.000  
RN. 201502081

REV. BY	DATE	DESCRIPTION
DATE COMPLETED	02/09/2021	

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
BOUNDARY SHEET NO. 15 OF 24  
FOR PARCEL BOUNDARY DATA.

- (17) EX. CATCH BASIN  
585.65 TOP GRATE  
579.95 INV. 12" RCP SE  
577.55 INV. 18" RCP NE  
574.65 INV. 36" RCP NW & SE
- (18) EX. CATCH BASIN  
586.09 TOP GRATE  
583.24 INV. 6" SPP N  
579.49 INV. 12" RCP NW  
579.39 INV. 12" RCP SE  
578.59 INV. 18" RCP SW
- (19) EX. CATCH BASIN  
583.92 TOP GRATE  
575.22 INV. 8" RCP SW
- (20) EX. CATCH BASIN  
583.57 TOP GRATE  
574.62 INV. 12" RCP NE  
574.57 INV. 36" RCP NW & SE

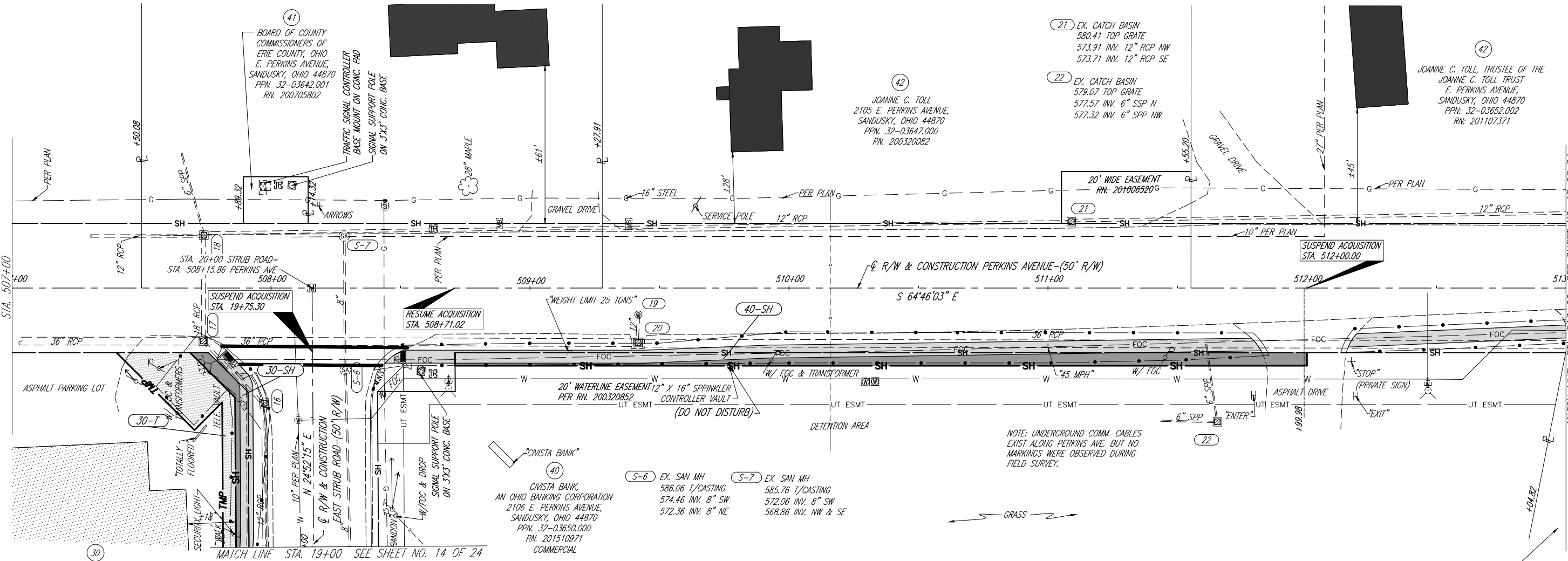
(42)  
JOANNE C. TOLL  
2103 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03642.000  
BOOK 241, PAGE 277

(41)  
BOARD OF COUNTY  
COMMISSIONERS OF  
ERIE COUNTY, OHIO  
E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03642.001  
RN. 200705802

(42)  
JOANNE C. TOLL  
2105 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03647.000  
RN. 200320082

- (21) EX. CATCH BASIN  
580.41 TOP GRATE  
573.91 INV. 12" RCP NW  
573.71 INV. 12" RCP SE
- (22) EX. CATCH BASIN  
579.07 TOP GRATE  
577.57 INV. 6" SSP N  
577.32 INV. 6" SPP NW

(42)  
JOANNE C. TOLL, TRUSTEE OF THE  
JOANNE C. TOLL TRUST  
E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03652.002  
RN. 201107371



NOTE: UNDERGROUND COMM. CABLES  
EXIST ALONG PERKINS AVE. BUT NO  
MARKINGS WERE OBSERVED DURING  
FIELD SURVEY.

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\H\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg, R0005(T), Apr. 26, 2021 - 2:43pm

HORIZONTAL  
SCALE IN FEET

0 10 20 40

---

PID NO. 105034

---

R/W DESIGNER MDD  
R/W REVIEWER NBR

---

**RIGHT OF WAY TOPOGRAPHY SHEET**  
**PERKINS AVE STA. 507+00 TO STA. 513+00**

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**ERI-PERKINS  
TOWNSHIP SRTS**

---

16 / 24

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REV. BY	DATE	DESCRIPTION

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DATE COMPLETED 02/09/2021

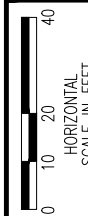
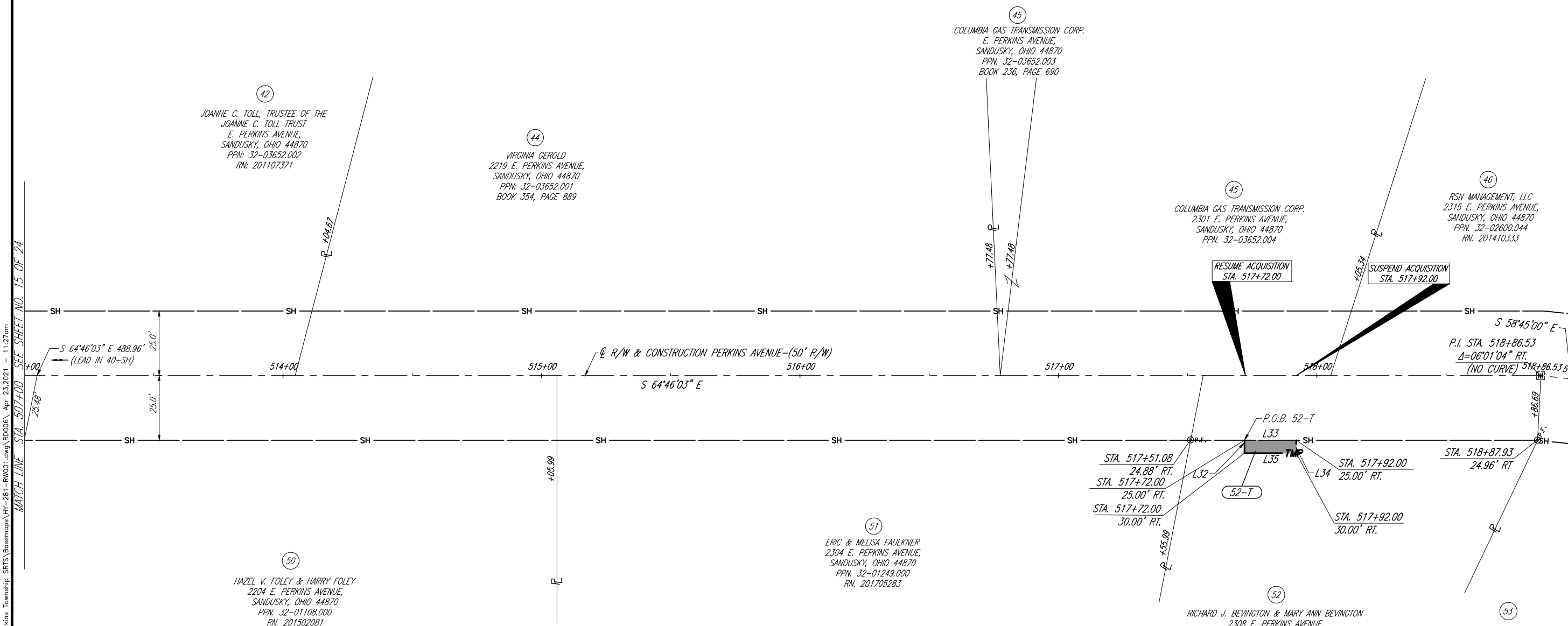
71  
79

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 18 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.

LINE	BEARING	DISTANCE
L32	N 25°13'57" E	5.00'
L33	S 64°46'03" E	20.00'
L34	S 25°13'57" W	5.00'
L35	N 64°46'03" W	20.00'



DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg, R0006, Apr. 23, 2021 - 11:27am  
MATCH LINE STA. 507+00 SEE SHEET NO. 15 OF 24

MATCH LINE STA. 513+00 SEE SHEET NO. 19 OF 24

PID NO.  
105034

R/W DESIGNER  
MDD

R/W REVIEWER  
NBR

RIGHT OF WAY BOUNDARY SHEET - PERKINS AVENUE  
STA. 513+00 TO STA. 519+00

ERI-PERKINS  
TOWNSHIP SRTS

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 02/09/2021

# ERI-PERKINS TOWNSHIP SRTS

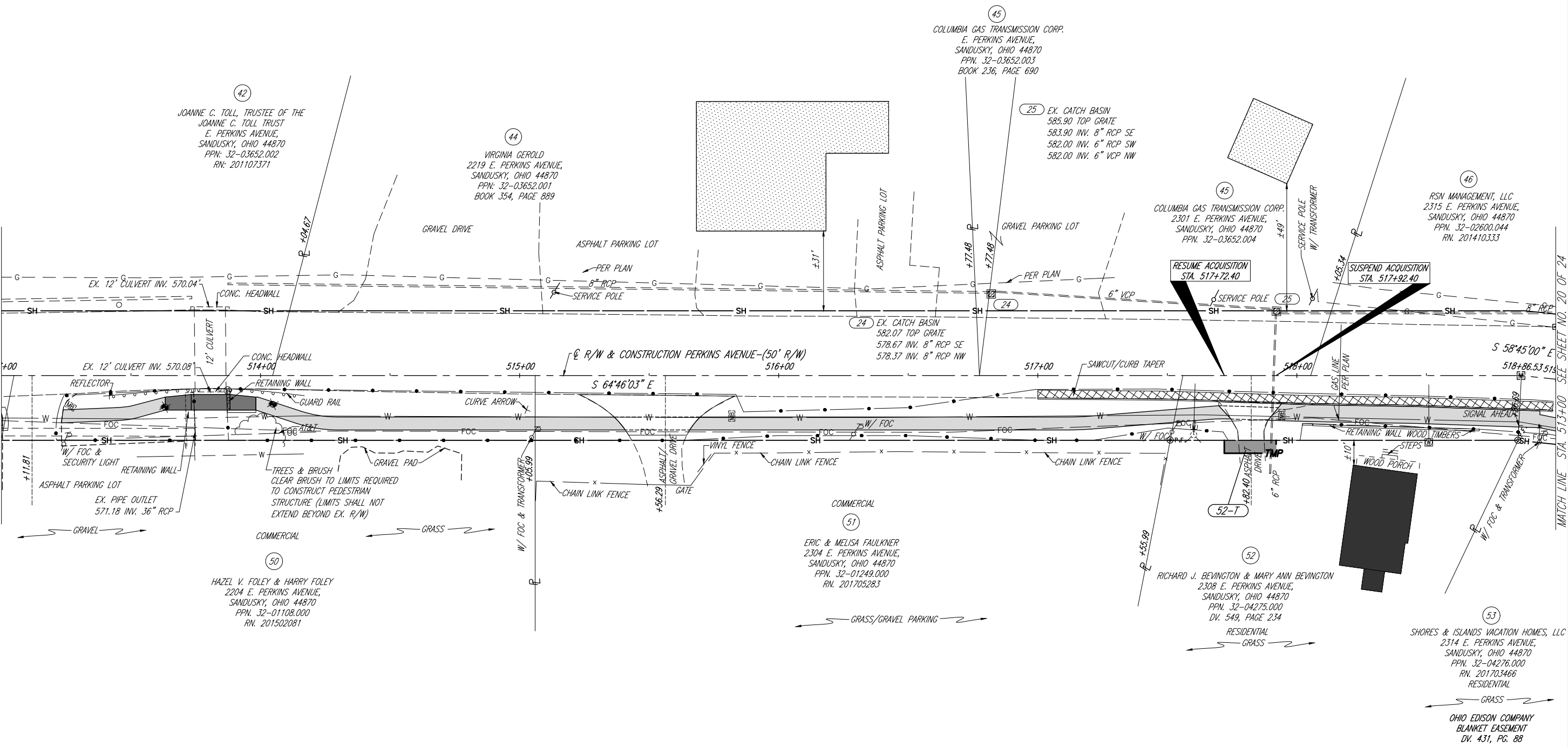
**PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46,  
 SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF  
 BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W,  
 THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE  
 PERKINS TOWNSHIP, ERIE COUNTY, OHIO**

SEE RIGHT OF WAY PLAN  
 BOUNDARY SHEET NO. 17 OF 24  
 FOR PARCEL BOUNDARY DATA.



PID NO. 105034  
 R/W DESIGNER MDD  
 R/W REVIEWER NBR

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg, R0006(T), Apr. 23, 2021 - 11:27am  
 MATCH LINE STA. 513+00 SEE SHEET NO. 16 OF 24



MATCH LINE STA. 513+00 SEE SHEET NO. 20 OF 24

**RIGHT OF WAY TOPOGRAPHY SHEET  
 PERKINS AVE STA. 513+00 TO STA. 519+00**

**ERI-PERKINS  
 TOWNSHIP SRTS**

REV. BY	DATE	DESCRIPTION							
DATE COMPLETED	02/09/2021								

18 / 24

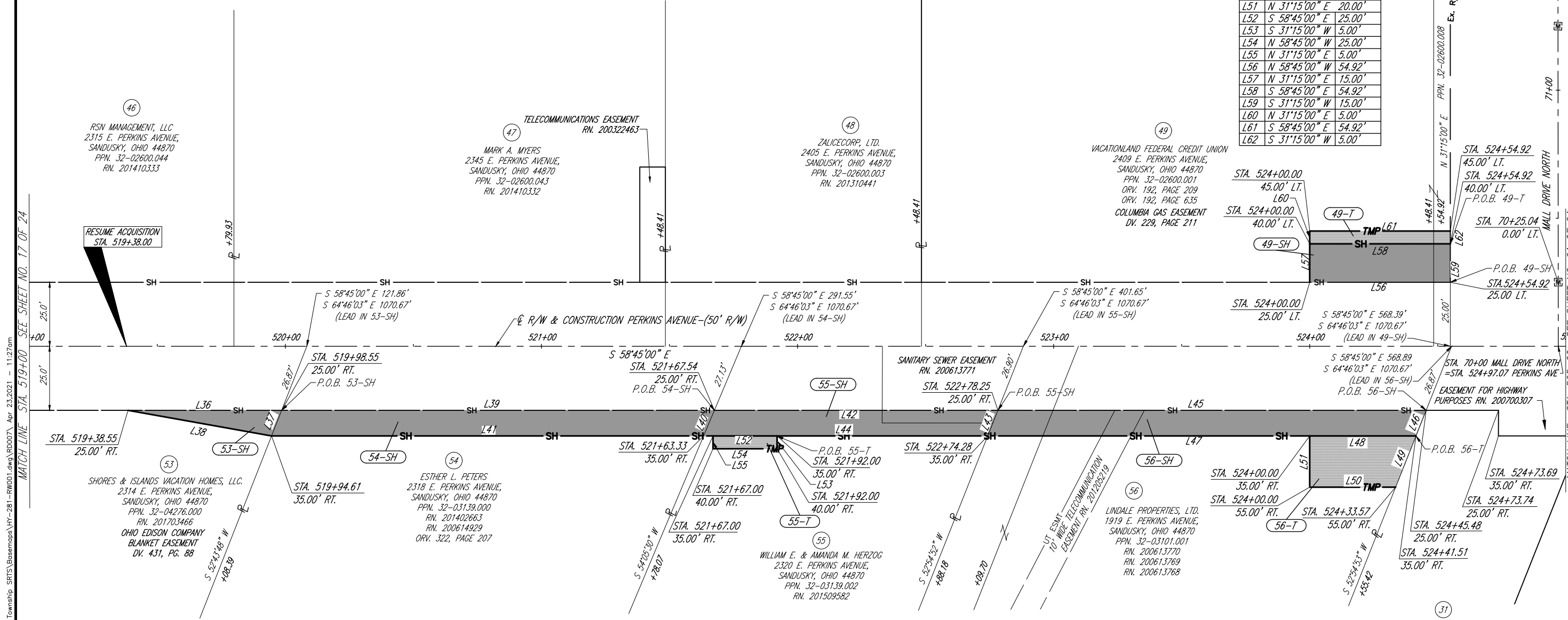
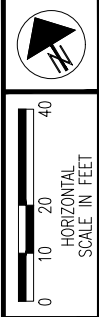
73  
79

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

LINE	BEARING	DISTANCE
L36	S 58°45'00" E	60.00'
L37	S 52°43'48" W	10.75'
L38	N 48°38'12" W	56.95'
L39	S 58°45'00" E	168.99'
L40	S 54°05'30" W	10.85'
L41	N 58°45'00" W	168.72'
L42	S 58°45'00" E	110.71'
L43	S 52°54'52" W	10.76'
L44	N 58°45'00" W	110.95'
L45	S 58°45'00" E	167.24'
L46	S 52°54'53" W	10.76'
L47	N 58°45'00" W	167.24'
L48	S 58°45'00" E	41.51'
L49	S 52°54'53" W	21.52'
L50	N 58°45'00" W	33.57'
L51	N 31°15'00" E	20.00'
L52	S 58°45'00" E	25.00'
L53	S 31°15'00" W	5.00'
L54	N 58°45'00" W	25.00'
L55	N 31°15'00" E	5.00'
L56	N 58°45'00" W	54.92'
L57	N 31°15'00" E	15.00'
L58	S 58°45'00" E	54.92'
L59	S 31°15'00" W	15.00'
L60	N 31°15'00" E	5.00'
L61	S 58°45'00" E	54.92'
L62	S 31°15'00" W	5.00'

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 20 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.



46  
RSN MANAGEMENT, LLC  
2315 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02600.044  
RN. 201410333

47  
MARK A. MYERS  
2345 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02600.043  
RN. 201410332

48  
ZALICECORP, LTD.  
2405 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02600.003  
RN. 201310441

49  
VACATIONLAND FEDERAL CREDIT UNION  
2409 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02600.001  
ORV. 192, PAGE 209  
ORV. 192, PAGE 635  
COLUMBIA GAS EASEMENT  
DV. 229, PAGE 211

53  
SHORES & ISLANDS VACATION HOMES, LLC.  
2314 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-04276.000  
RN. 201703466  
OHIO EDISON COMPANY  
BLANKET EASEMENT  
DV. 431, PG. 88

54  
ESTHER L. PETERS  
2318 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03139.000  
RN. 201402663  
RN. 200614929  
ORV. 322, PAGE 207

55  
WILLIAM E. & AMANDA M. HERZOG  
2320 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03139.002  
RN. 201509582

56  
LINDALE PROPERTIES, LTD.  
1919 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03101.001  
RN. 200613769  
RN. 200613768

31  
SANDUSKY DEVELOPMENT CO.  
SANDUSKY MALL BLVD.  
SANDUSKY, OHIO 44870  
PPN. 32-03101.000  
DV. 447, PG. 582

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRts\Basemaps\HY-281-RW001.dwg\RD007, Apr 23, 2021 - 11:27am

RIGHT OF WAY BOUNDARY SHEET - PERKINS AVE  
STA. 519+00 TO STA. 525+00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 02/09/2021

ERI-PERKINS  
TOWNSHIP SRTS

19 / 24

74  
79



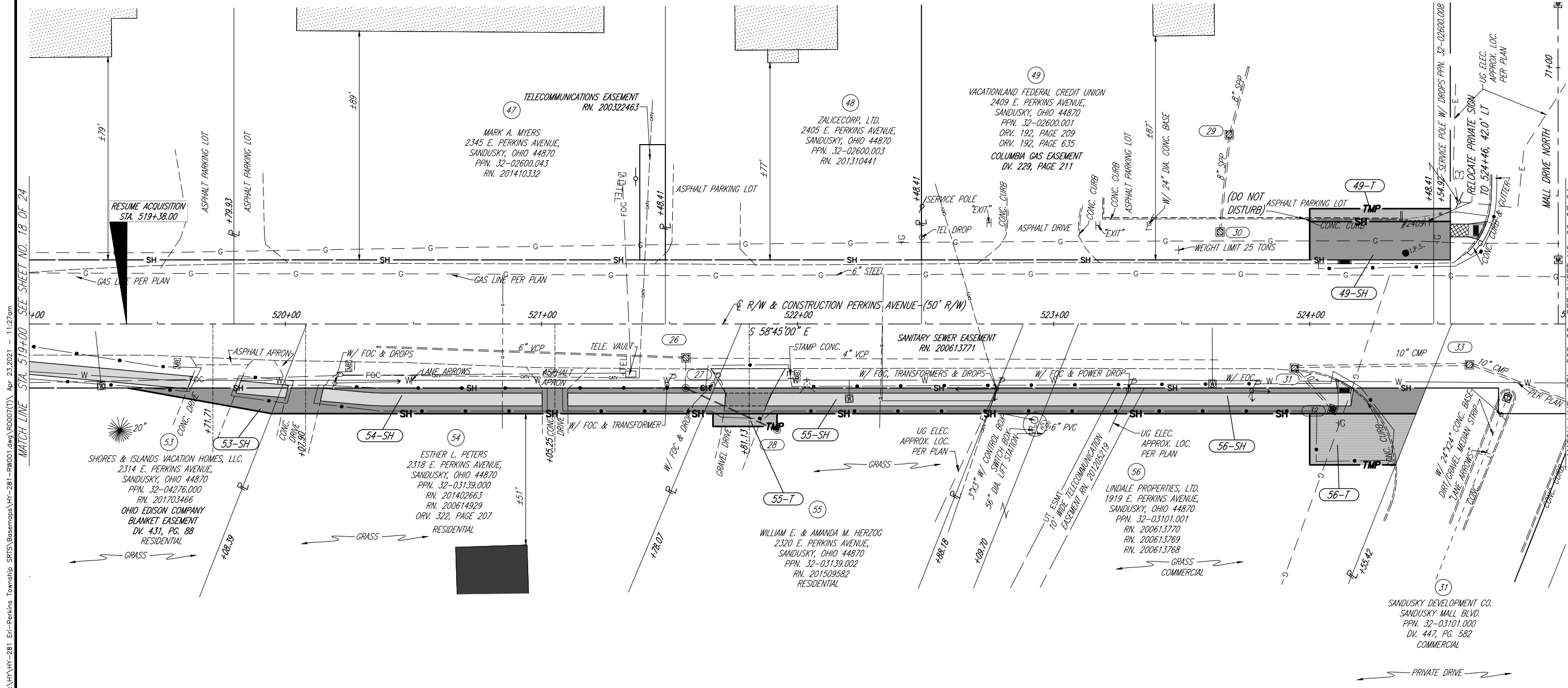
# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
BOUNDARY SHEET NO. 19 OF 24  
FOR PARCEL BOUNDARY DATA.



PID NO. 105034  
R/W DESIGNER MDD  
R/W REVIEWER NBR



MATCH LINE STA. 519+00 SEE SHEET NO. 18 OF 24

MATCH LINE STA. 525+00 SEE SHEET NO. 22 OF 24

**RIGHT OF WAY TOPOGRAPHY SHEET  
PERKINS AVE STA. 519+00 TO STA. 525+00**

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRts\Basemaps\HY-281-RW01.dwg (RD007CT), Apr. 23, 2021, 11:27am

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 02/09/2021

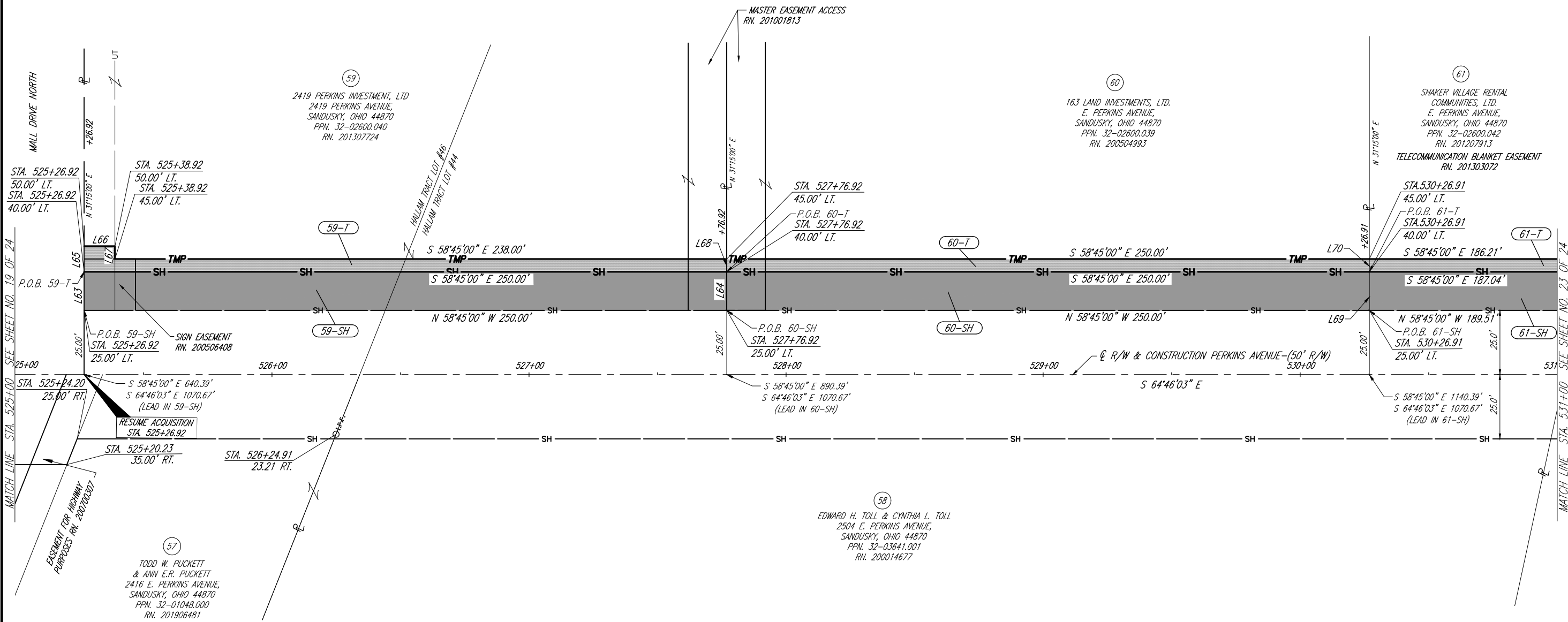
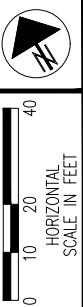
**ERI-PERKINS  
TOWNSHIP SRTS**

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

LINE	BEARING	DISTANCE
L63	N 31°15'00" E	15.00'
L64	S 31°15'00" W	15.00'
L65	N 31°15'00" E	10.00'
L66	S 58°45'00" E	12.00'
L67	S 31°15'00" W	5.00'
L68	S 31°15'00" W	5.00'
L69	S 31°15'00" W	15.00'
L70	S 31°15'00" W	5.00'

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 22 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.



**RIGHT OF WAY BOUNDARY SHEET - PERKINS AVE**  
**STA. 525+00 TO STA. 531+00**

**ERI-PERKINS  
TOWNSHIP SRTS**

21 / 24

76  
 79

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		02/09/2021

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-RW001.dwg, RD008, Apr. 23, 2021 - 11:27am  
 SEE SHEET NO. 19 OF 24  
 SEE SHEET NO. 23 OF 24

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
BOUNDARY SHEET NO. 21 OF 24  
FOR PARCEL BOUNDARY DATA.



PID NO.  
105034

R/W DESIGNER  
MDD

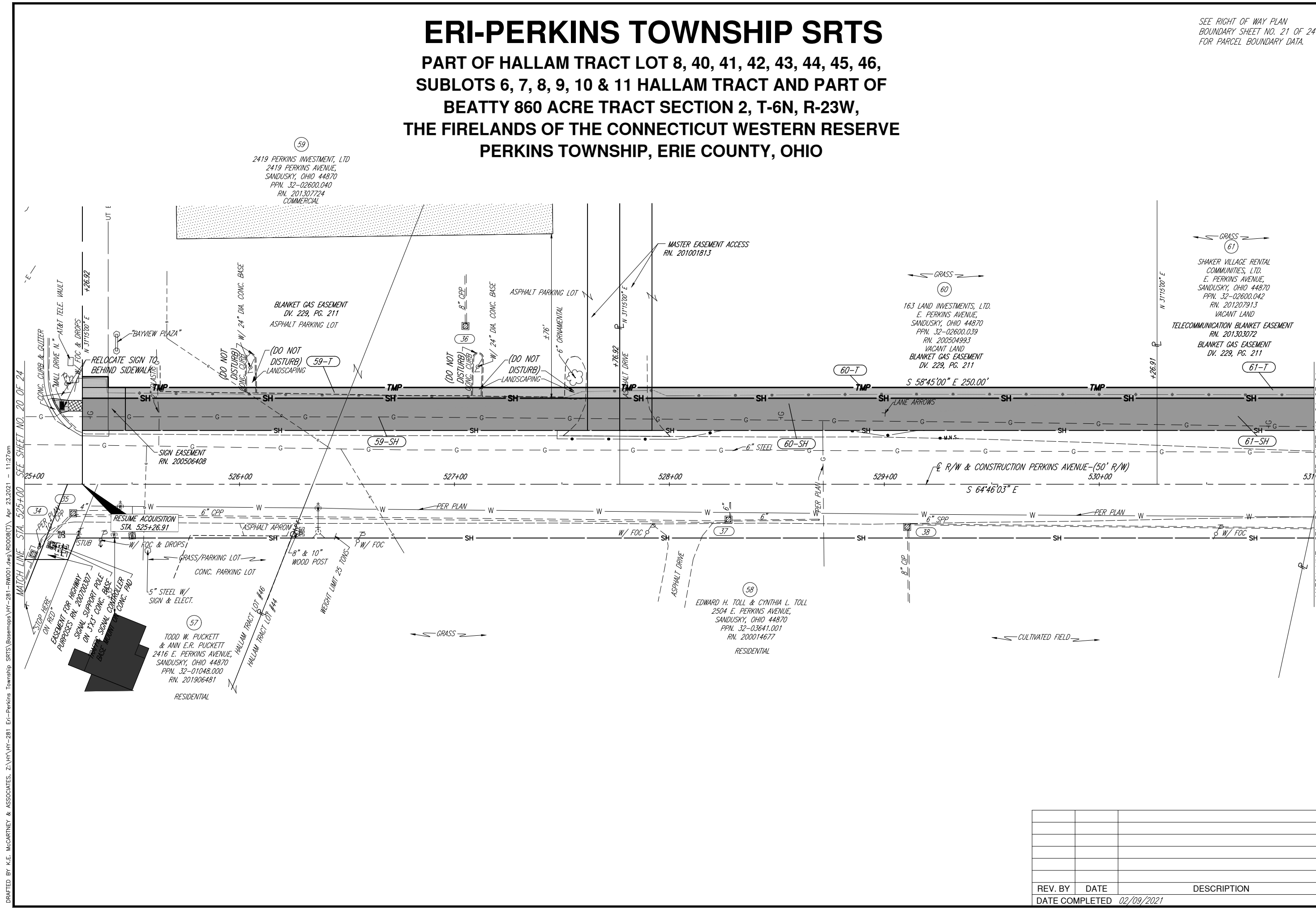
R/W REVIEWER  
NBR

RIGHT OF WAY TOPOGRAPHY SHEET  
PERKINS AVE STA. 525+00 TO STA. 531+00

ERI-PERKINS  
TOWNSHIP SRTS

22 / 24

77  
79



REV. BY	DATE	DESCRIPTION

DRAFTED BY K.E. MCCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basemaps\HY-281-FW001.dwg, RDO08(CT), Apr. 23, 2021 - 11:27am  
MATCH LINE STA. 525+00 SEE SHEET NO. 20 OF 24  
MATCH LINE STA. 531+00 SEE SHEET NO. 24 OF 24

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
TOPOGRAPHY SHEET NO. 24 OF 24  
FOR TOPOGRAPHY AND  
PROPOSED PROJECT DATA.

LINE	BEARING	DISTANCE
L71	S 21°53'00" W	15.20'
L72	S 21°53'00" W	5.07'
L73	S 21°53'00" W	5.07'
L74	S 21°53'00" W	5.20'
L75	N 58°45'00" W	24.94'
L76	N 84°21'53" E	20.93'
L77	S 01°53'18" E	15.00'

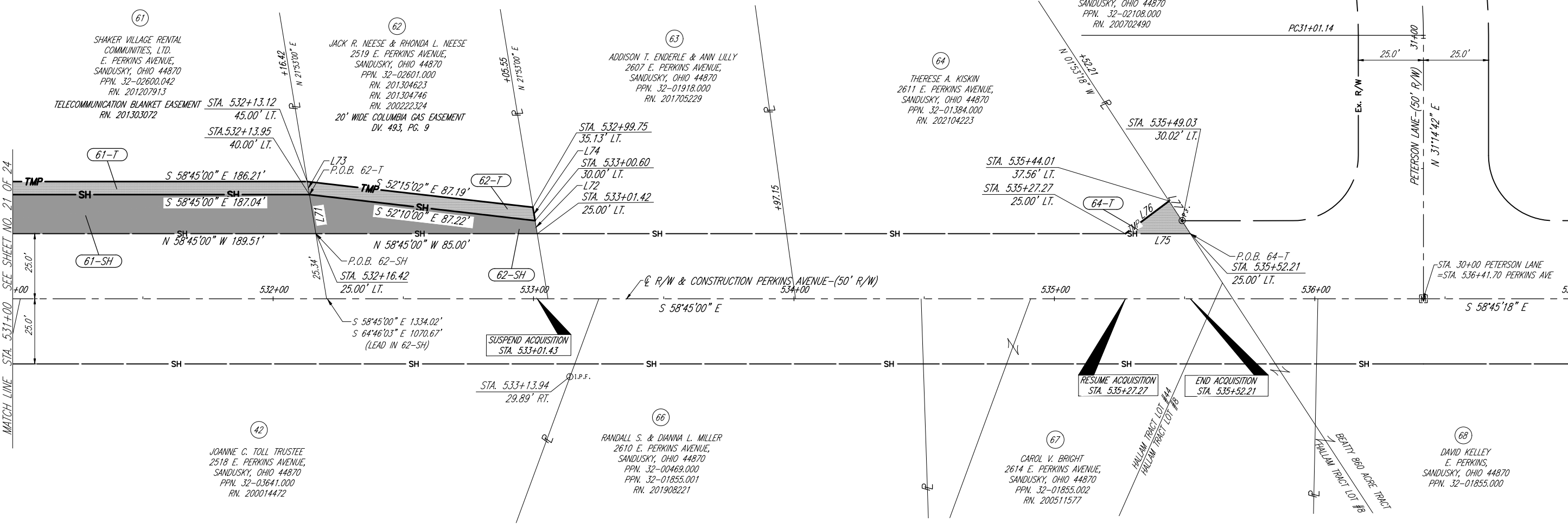

  


PID NO. 105034  
 R/W DESIGNER MDD  
 R/W REVIEWER NBR

RIGHT OF WAY BOUNDARY SHEET - PERKINS AVE  
 STA. 531+00 TO STA. 537+00

ERI-PERKINS  
 TOWNSHIP SRTS

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Bases\Map\HY-281-FW001.dwg, R0009, May 27, 2021 - 8:48am



(42) EX. CATCH BASIN  
591.28 TOP GRATE  
587.93 INV. 6" RCP SE  
587.83 INV. 6" RCP NW  
587.68 INV. 8" VCP SW

(69) RELDA E. NIEDERHOFER TRUSTEE  
2916 PETERSON LANE,  
SANDUSKY, OHIO 44870  
PPN. 32-02213.000  
DV. 175, PAGE 693

(65) DOROTHY R. DEWEY WHEATLEY  
2915 PETERSON LANE,  
SANDUSKY, OHIO 44870  
PPN. 32-02108.000  
RN. 200702490

(64) THERESE A. KISKIN  
2611 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-01384.000  
RN. 202104223

(63) ADDISON T. ENDERLE & ANN LILLY  
2607 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-01918.000  
RN. 201705229

(62) JACK R. NEESE & RHONDA L. NEESE  
2519 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02601.000  
RN. 201304623  
RN. 201304746  
RN. 200222324  
20' WIDE COLUMBIA GAS EASEMENT  
DV. 493, PG. 9

(61) SHAKER VILLAGE RENTAL  
COMMUNITIES, LTD.  
E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02600.042  
RN. 201207913  
TELECOMMUNICATION BLANKET EASEMENT  
STA. 532+13.12  
45.00' LT.  
STA. 532+13.95  
40.00' LT.

S 58°45'00" E 1334.02'  
S 64°46'03" E 1070.67'  
(LEAD IN 62-SH)

SUSPEND ACQUISITION  
STA. 533+01.43

RESUME ACQUISITION  
STA. 535+27.27

END ACQUISITION  
STA. 535+52.21

(42) JOANNE C. TOLL TRUSTEE  
2518 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-03641.000  
RN. 200014472

(66) RANDALL S. & DIANNA L. MILLER  
2610 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-00469.000  
PPN. 32-01855.001  
RN. 201908221

(67) CAROL V. BRIGHT  
2614 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-01855.002  
RN. 200511577

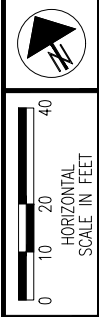
(68) DAVID KELLEY  
E. PERKINS,  
SANDUSKY, OHIO 44870  
PPN. 32-01855.000

NBR	5/27/21	OWNER 64 UPDATED DUE TO TRANSFER
REV. BY	DATE	DESCRIPTION
DATE COMPLETED		02/09/2021

# ERI-PERKINS TOWNSHIP SRTS

## PART OF HALLAM TRACT LOT 8, 40, 41, 42, 43, 44, 45, 46, SUBLOTS 6, 7, 8, 9, 10 & 11 HALLAM TRACT AND PART OF BEATTY 860 ACRE TRACT SECTION 2, T-6N, R-23W, THE FIRELANDS OF THE CONNECTICUT WESTERN RESERVE PERKINS TOWNSHIP, ERIE COUNTY, OHIO

SEE RIGHT OF WAY PLAN  
BOUNDARY SHEET NO. 23 OF 24  
FOR PARCEL BOUNDARY DATA.



39 EX. CATCH BASIN  
583.82 TOP GRATE  
580.30 INV. 24"X36" ELLIPTICAL RCP NE  
578.90 INV. 8" SPP E  
579.00 INV. 12" RCP NE  
579.00 INV. 6" SPP NW

40 EX. CATCH BASIN  
583.46 TOP GRATE  
579.22 INV. 10" VCP SW  
579.26 INV. 12" CPP N  
579.56 INV. 8" SPP W  
579.61 INV. 6" E  
579.76 INV. 8" VCP SE

41 EX. CATCH BASIN  
583.14 TOP CONC. STRUCTURE  
580.28 INV. 36"X27" WEIR  
580.20 INV. 24"X36" ELLIPTICAL RCP  
579.10 INV. 12" CPP S  
579.00 INV. 12" RCP SW

62 JACK R. NEESE & RHONDA NEESE  
2519 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-02601.000  
RN. 201304623  
RN. 201304746  
RN. 200222324  
RESIDENTIAL

63 ADDISON T. ENDERLE & ANN LILLY  
2607 E. PERKINS AVENUE,  
SANDUSKY, OHIO 44870  
PPN. 32-01918.000  
RN. 201705229  
RESIDENTIAL

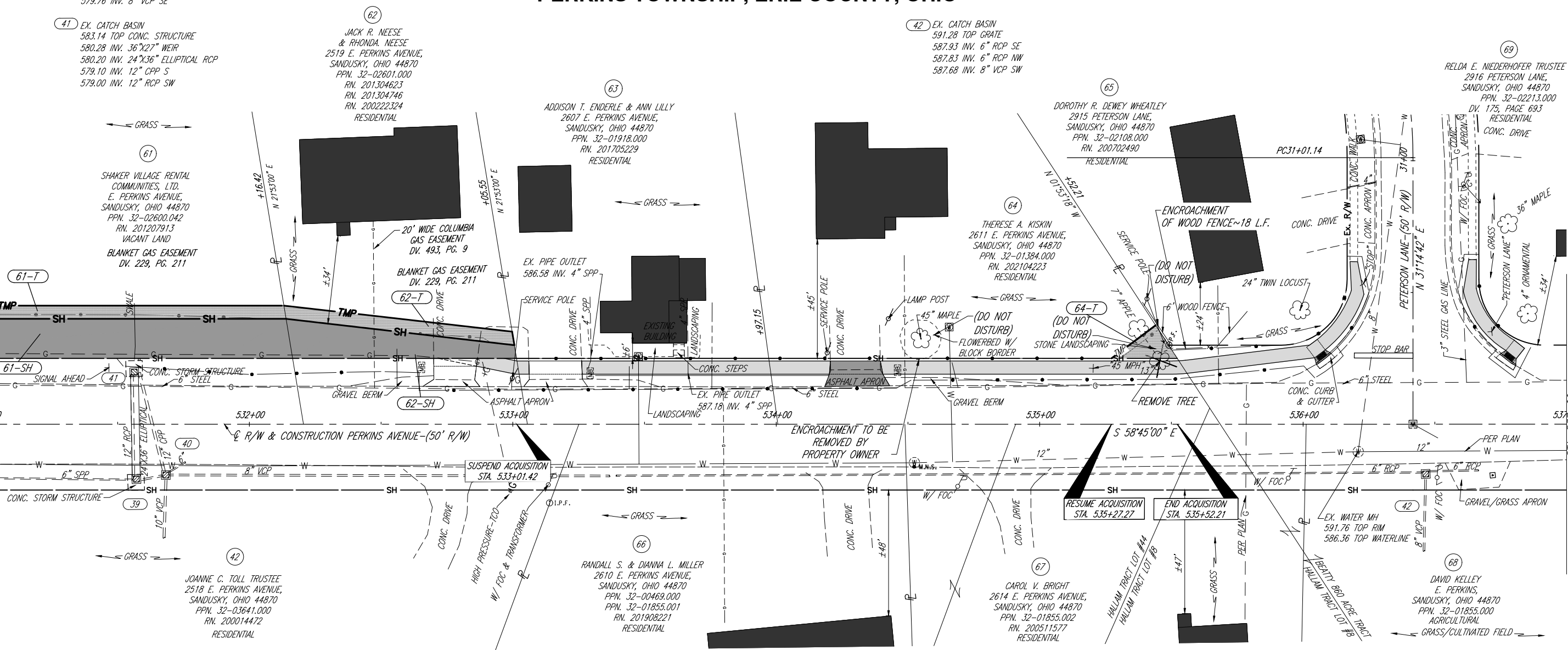
42 EX. CATCH BASIN  
591.28 TOP GRATE  
587.93 INV. 6" RCP SE  
587.83 INV. 6" RCP NW  
587.68 INV. 8" VCP SW

65 DOROTHY R. DEWEY WHEATLEY  
2915 PETERSON LANE,  
SANDUSKY, OHIO 44870  
PPN. 32-02108.000  
RN. 200702490  
RESIDENTIAL

69 RELDA E. NIEDERHOFER TRUSTEE  
2916 PETERSON LANE,  
SANDUSKY, OHIO 44870  
PPN. 32-02213.000  
DV. 175, PAGE 693  
RESIDENTIAL  
CONC. DRIVE

MATCH LINE STA. 531+00 SEE SHEET NO. 22 OF 24

DRAFTED BY K.E. McCARTNEY & ASSOCIATES, Z:\HY\HY-281 Eri-Perkins Township SRTS\Basesmaps\HY-281-FW001.dwg, RD009(T), May 27, 2021, 8:47am



PID NO. 105034  
R/W DESIGNER MDD  
R/W REVIEWER NBR

RIGHT OF WAY TOPOGRAPHY SHEET  
PERKINS AVE STA. 531+00 TO STA. 537+00

ERI-PERKINS  
TOWNSHIP SRTS

NBR	5/27/21	OWNER 64 UPDATED DUE TO TRANSFER
REV. BY	DATE	DESCRIPTION
DATE COMPLETED	02/09/2021	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 9/9/20 13:23 - \PSIPRODBW02\BENTLEY\_GINT\PROJECTS\ODOT 0142\0142-2157 PEDESTRIAN BRIDGE, PERKINS TOWNSHIP,

PROJECT: PEDESTRIAN BRIDGE	DRILLING FIRM / OPERATOR: OTB / OTB	DRILL RIG: SIMCO 2800 HSHT (16)	STATION / OFFSET: 0+00, 22' RT.	EXPLORATION ID
TYPE: STRUCTURE FOUNDATION	SAMPLING FIRM / LOGGER: OTB / ZAIN	HAMMER: SIMCO AUTOMATIC	ALIGNMENT: PERKINS AVENUE	B-001-0-20
PID: SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/1/16	ELEVATION: 580.0 (MSL) EOB: 25.6 ft.	PAGE
START: 8/27/20 END: 8/27/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 74	LAT / LONG: 41.427665, -82.664890	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 580.0	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
12" Topsoil w/ Gravel	579.0	1	11															
VERY STIFF, BROWN, SANDY SILT, WITH GRAVEL AND ROOTING, MOIST (FILL)		2	9	21	89	SS-1	-	-	-	-	-	-	-	-	13	A-4a (V)		
		3																
** Soft @ 4.5 feet		4	2	4	100	SS-2	-	-	-	-	-	-	-	-	17	A-4a (V)		
		5																
		6	1															
** Wood Encounterd @ 8 to 9 feet		7	1	4	89	SS-3	-	-	-	-	-	-	-	-	21	A-4a (V)		
		8																
	571.5	9	6	6	100	SS-4	-	-	-	-	-	-	-	-	122	A-4a (V)		
		10	2	3														
		11																
		12																
		13																
MEDIUM STIFF TO STIFF, BROWN/GRAY, SILTY CLAY, TRACE SAND, GRAVEL AND ROCK FRAGMENTS, MOIST	566.5	14	1	5	89	SS-5	-	1	3	7	42	47	38	19	19	25	A-6b (12)	
		15																
		16																
		17																
		18																
		19	2	9	89	SS-6	-	2	3	5	39	51	34	18	16	21	A-6b (10)	
		20																
		21																
		22																
		23																
		24	2	11	89	SS-7	-	-	-	-	-	-	-	-	-	12	A-6b (V)	
		25																
LIMESTONE, GRAY, WEATHERED, STRONG.	554.9 554.4	TR EOB	60/1"	-	100	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	

NOTES: NONE  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 9/9/20 13:23 - \PSIPRODBW02\BENTLEY\_GINT\PROJECTS\ODOT 0142\0142-2157 PEDESTRIAN BRIDGE, PERKINS TOWNSHIP,

PROJECT: PEDESTRIAN BRIDGE	DRILLING FIRM / OPERATOR: OTB / OTB	DRILL RIG: SIMCO 2800 HSHT (16)	STATION / OFFSET: 0+35, 22' RT.	EXPLORATION ID
TYPE: STRUCTURE FOUNDATION	SAMPLING FIRM / LOGGER: OTB / ZAIN	HAMMER: SIMCO AUTOMATIC	ALIGNMENT: PERKINS AVENUE	B-002-0-20
PID: _____ SFN: _____	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/1/16	ELEVATION: 580.0 (MSL) EOB: 26.6 ft.	PAGE
START: 8/27/20 END: 8/27/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 74	LAT / LONG: 41.427631, -82.664777	1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 580.0	DEPTHS	SPT/ RQD	N <sub>60</sub>	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%)					ATTERBERG			WC	ODOT CLASS (GI)	BACK FILL
								GR	CS	FS	SI	CL	LL	PL	PI			
22" Topsoil w/ Gravel	578.2	1	3															
STIFF, BROWN, SANDY SILT, WITH GRAVEL, ROOTING AND ORGANICS, MOIST (FILL)		2	5	12	89	SS-1	-	-	-	-	-	-	-	-	16	A-4a (V)		
		3																
		4	2	6	100	SS-2	-	-	-	-	-	-	-	-	19	A-4a (V)		
		5	3															
		6	0	1	0	SS-3	-	-	-	-	-	-	-	-	26	A-4a (V)		
** Soft @ 6 feet		7	0	1	0	SS-3	-	-	-	-	-	-	-	26	A-4a (V)			
** Wood Encounterd @ 8 feet		8																
		9	1	4	100	SS-4	-	-	-	-	-	-	-	151	A-4a (V)			
		10	2	1														
		11																
		12																
		13																
		14	1	5	89	SS-5	-	0	2	6	40	52	39	20	19	25	A-6b (12)	
MEDIUM STIFF TO STIFF, BROWN/GRAY, SILTY CLAY, TRACE SAND, GRAVEL AND ROCK FRAGMENTS, MOIST	566.5	15	1	3														
		16																
		17																
		18																
		19	2	3	10	89	SS-6	-	2	3	5	43	47	38	19	19	25	A-6b (12)
		20	3	5														
		21																
		22																
		23																
		24	2	4	10	89	SS-7	-	-	-	-	-	-	-	-	16	A-6b (V)	
		25	4	4														
	554.0	26																
LIMESTONE, GRAY, WEATHERED, STRONG.	553.4	TR																
		EOB	50/1"	-	100	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	

NOTES: NONE  
 ABANDONMENT METHODS, MATERIALS, QUANTITIES: BACKFILLED WITH SOIL CUTTINGS

CALCULATED  
MDH  
CHECKED  
TAB

SOIL BORE LOGS  
 PROPOSED PEDESTRIAN STRUCTURE - BORING LOG B-002-0-20

D03 SRTS PERKINS

