

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
HAM US 27 11.09
SIDEWALKS
COLERAIN TOWNSHIP
HAMILTON COUNTY

PROJECT DESCRIPTION

RECONSTRUCTION OF EXISTING SIDEWALK AND CURBS ON BOTH SIDES OF COLERAIN AVENUE (US 27) FROM JONROSE AVENUE TO SHADYCREST DRIVE.

PROJECT EARTH DISTURBED AREA: 0.83 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.09 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI not required)

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.

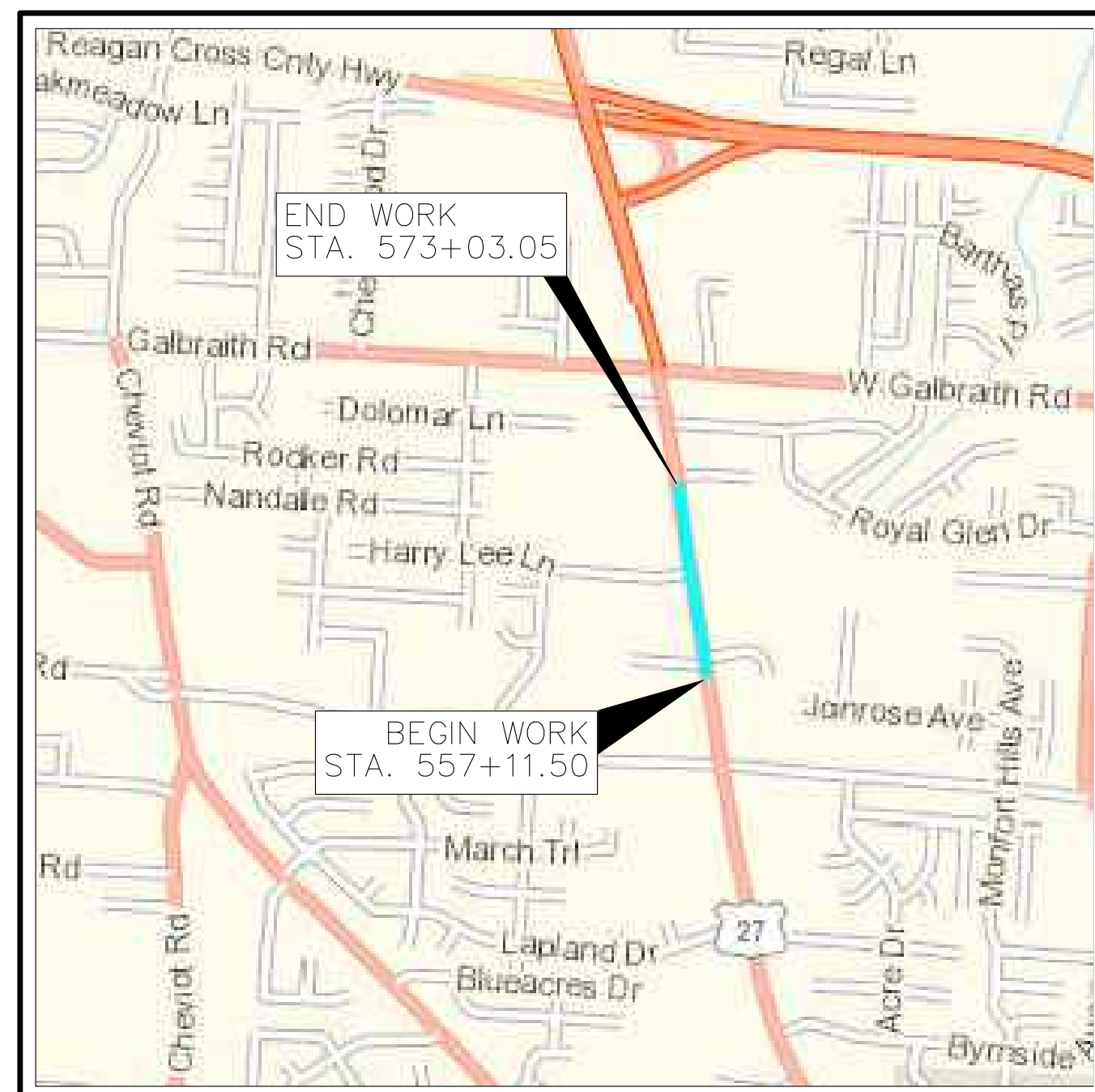
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

DISTRICT DEPUTY DIRECTOR

Terry K Campbell 4-18-23

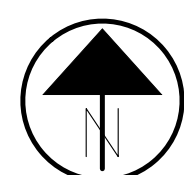
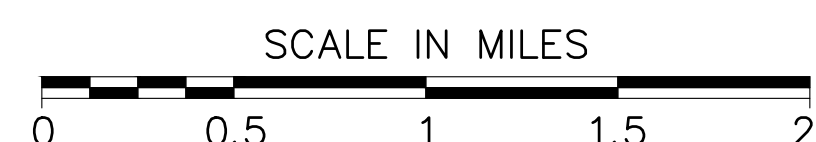
DIRECTOR, DEPARTMENT OF TRANSPORTATION

John Markowski 4-18-23



LOCATION MAP

LATITUDE: 39°12'79" LONGITUDE: -84°35'08"



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

DESIGN DESIGNATION

CURRENT ADT (2022)	—————
DESIGN YEAR ADT (2022)	—————
DESIGN HOURLY VOLUME (2022)	—————
DIRECTIONAL DISTRIBUTION	—————
TRUCKS (24 HOUR B&C)	—————
DESIGN SPEED	35 MPH
LEGAL SPEED	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	—————

NHS PROJECT: —————

DESIGN EXCEPTIONS NONE REQUIRED

ADA DESIGN WAIVERS NONE REQUIRED

UNDERGROUND UTILITIES
CONTACT TWO WORKING DAYS BEFORE YOU DIG.

OHIO811, 8-1-1, OR 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

KZF DESIGN
Designing Better Futures

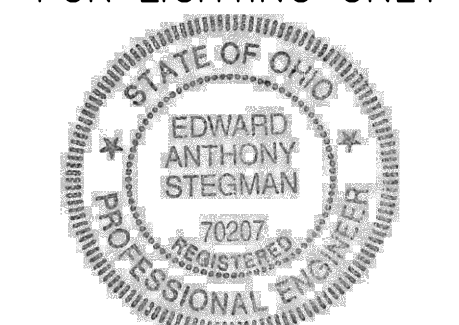
700 Broadway Street TEL 513 621 6211
Cincinnati, OH 45202-6010 FAX 513 621 6530

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ENGINEERS SEAL:

FOR LIGHTING ONLY



SIGNED: *Edward A Stegman*
DATE: 3/13/23

ENGINEERS SEAL:

FOR ENTIRE PLAN EXCEPT LIGHTING AND LANDSCAPING



SIGNED: *Shawn Richards*
DATE: 3/13/2023

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS					
BP 1.1	7/28/00	HL 10.11	7/15/22	MT 95.31	7/19/19	TC 41.20	10/18/13	800	1/20/23	
BP 4.1	7/19/13	HL 10.13	1/20/23	MT 99.20	4/19/19	TC 41.40	10/18/13	813	10/19/18	
BP 5.1	7/15/22	HL 20.1110	21/22	MT 99.30	1/17/20	TC 42.20	10/18/13	832	7/15/22	
BP 7.1	1/20/23	HL 30.11	1/15/21	MT 101.90	7/17/20	TC 65.10	1/17/14	878	1/21/22	
		HL 30.22	1/15/21	MT 102.20	4/19/19	TC 65.11	7/15/22	880	1/21/22	
CB 3A	7/16/21	HL 40.20	7/15/22	MT 105.10	1/17/20	TC 71.10	7/15/22	884	10/19/18	
CB 6	1/21/22	HL 60.11	7/21/17	MT 110.10	7/19/13	TC 74.10	1/20/23	902	7/19/19	
		HL 60.12	7/16/21					913	4/16/21	
DM 1.1	7/17/20	HL 60.31	1/17/20							
DM 1.2	7/16/21							GCWW SPEC		
DM 4.3	1/15/16							1126	1/1/19	
DM 4.4	1/15/16							1131	1/1/19	
								MSD SPEC		
								49057	8/1/06	

FEDERAL PROJECT NO. E220 (013)
PID NO. 113851
CONSTRUCTION PROJECT NO. N/A
RAILROAD INVOLVEMENT NONE
HAM-27-11.09
01/98

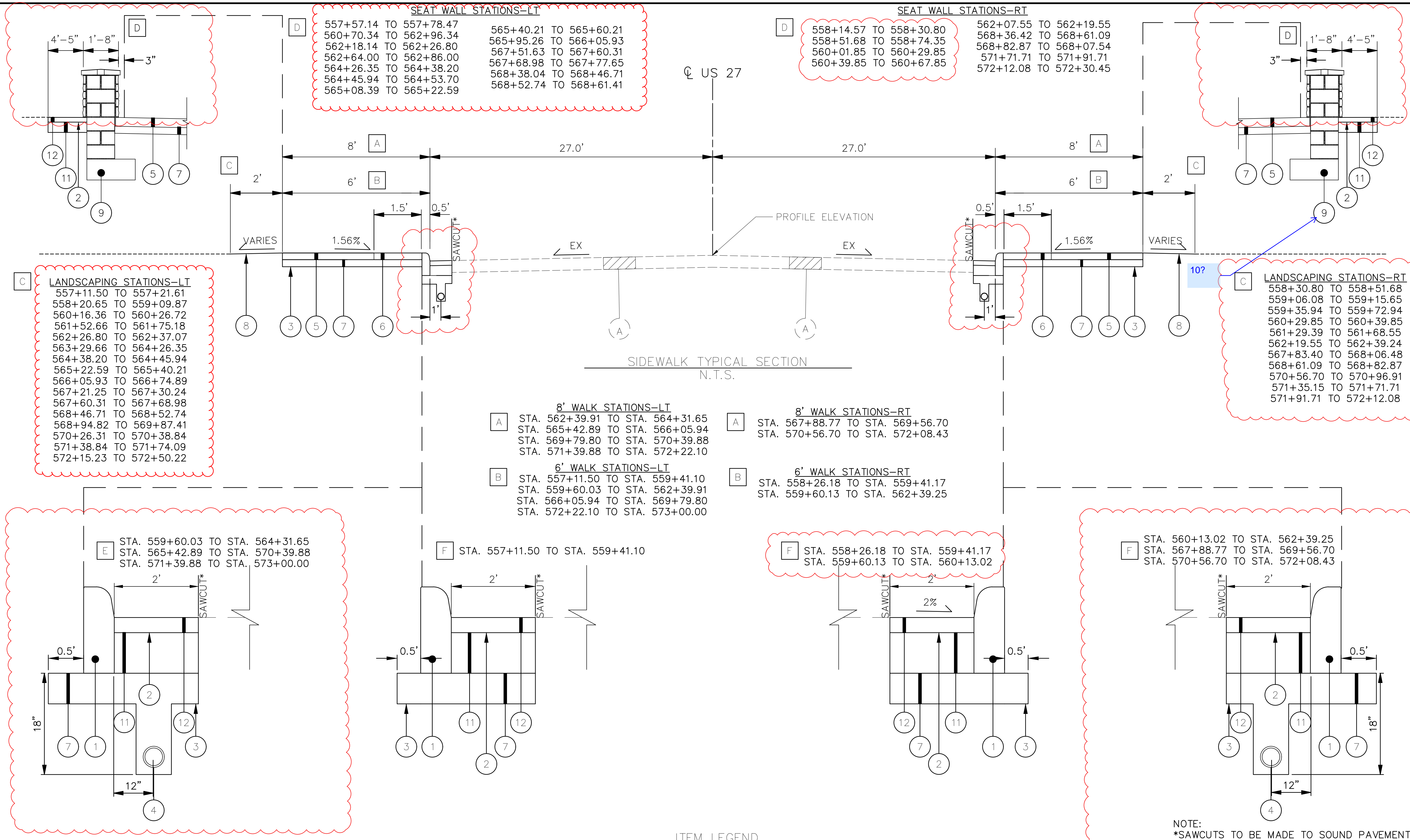
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CALCULATED
SCR
CHECKED
MM

TYPICAL SECTION - US 27

HAM-27-11.09

03
98



SEAT WALL STATIONS-LT

557+57.14 TO 557+78.47	565+40.21 TO 565+60.21
560+70.34 TO 562+96.34	565+95.26 TO 566+05.93
562+18.14 TO 562+26.80	567+51.63 TO 567+60.31
562+64.00 TO 562+86.00	567+68.98 TO 567+77.65
564+26.35 TO 564+38.20	568+38.04 TO 568+46.71
564+45.94 TO 564+53.70	568+52.74 TO 568+61.41
565+08.39 TO 565+22.59	

SEAT WALL STATIONS-RT

558+14.57 TO 558+30.80	562+07.55 TO 562+19.55
558+51.68 TO 558+74.35	568+36.42 TO 568+61.09
560+01.85 TO 560+29.85	568+82.87 TO 568+07.54
560+39.85 TO 560+67.85	571+71.71 TO 571+91.71
	572+12.08 TO 572+30.45

LANDSCAPING STATIONS-LT

557+11.50 TO 557+21.61
558+20.65 TO 559+09.87
560+16.36 TO 560+26.72
561+52.66 TO 561+75.18
562+26.80 TO 562+37.07
563+29.66 TO 564+26.35
564+38.20 TO 564+45.94
565+22.59 TO 565+40.21
566+05.93 TO 566+74.89
567+21.25 TO 567+30.24
567+60.31 TO 567+68.98
568+46.71 TO 568+52.74
568+94.82 TO 569+87.41
570+26.31 TO 570+38.84
571+38.84 TO 571+74.09
572+15.23 TO 572+50.22

LANDSCAPING STATIONS-RT

558+30.80 TO 558+51.68
559+06.08 TO 559+15.65
559+35.94 TO 559+72.94
560+29.85 TO 560+39.85
561+29.39 TO 561+68.55
562+19.55 TO 562+39.24
567+83.40 TO 568+06.48
568+61.09 TO 568+82.87
570+56.70 TO 570+96.91
571+35.15 TO 571+71.71
571+91.71 TO 572+12.08

8' WALK STATIONS-LT

STA. 562+39.91 TO STA. 564+31.65
STA. 565+42.89 TO STA. 566+05.94
STA. 569+79.80 TO STA. 570+39.88
STA. 571+39.88 TO STA. 572+22.10

8' WALK STATIONS-RT

STA. 567+88.77 TO STA. 569+56.70
STA. 570+56.70 TO STA. 572+08.43

6' WALK STATIONS-LT

STA. 557+11.50 TO STA. 559+41.10
STA. 559+60.03 TO STA. 562+39.91
STA. 566+05.94 TO STA. 569+79.80
STA. 572+22.10 TO STA. 573+00.00

6' WALK STATIONS-RT

STA. 558+26.18 TO STA. 559+41.17
STA. 559+60.13 TO STA. 562+39.25

E

STA. 559+60.03 TO STA. 564+31.65
STA. 565+42.89 TO STA. 570+39.88
STA. 571+39.88 TO STA. 573+00.00

F

STA. 557+11.50 TO STA. 559+41.10

F

STA. 558+26.18 TO STA. 559+41.17
STA. 559+60.13 TO STA. 560+13.02

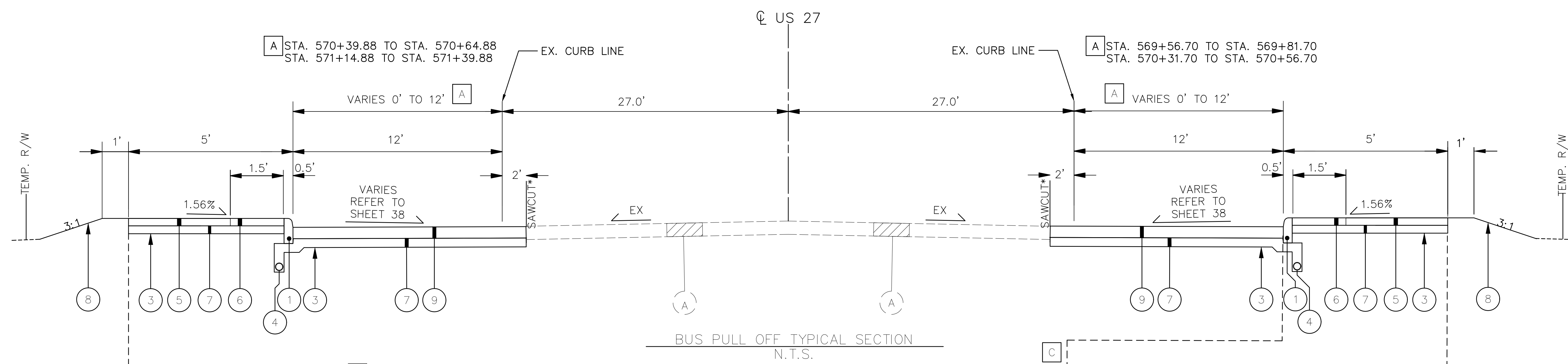
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STA. 560+13.02 TO STA. 562+39.25
STA. 567+88.77 TO STA. 569+56.70
STA. 570+56.70 TO STA. 572+08.43

ITEM LEGEND

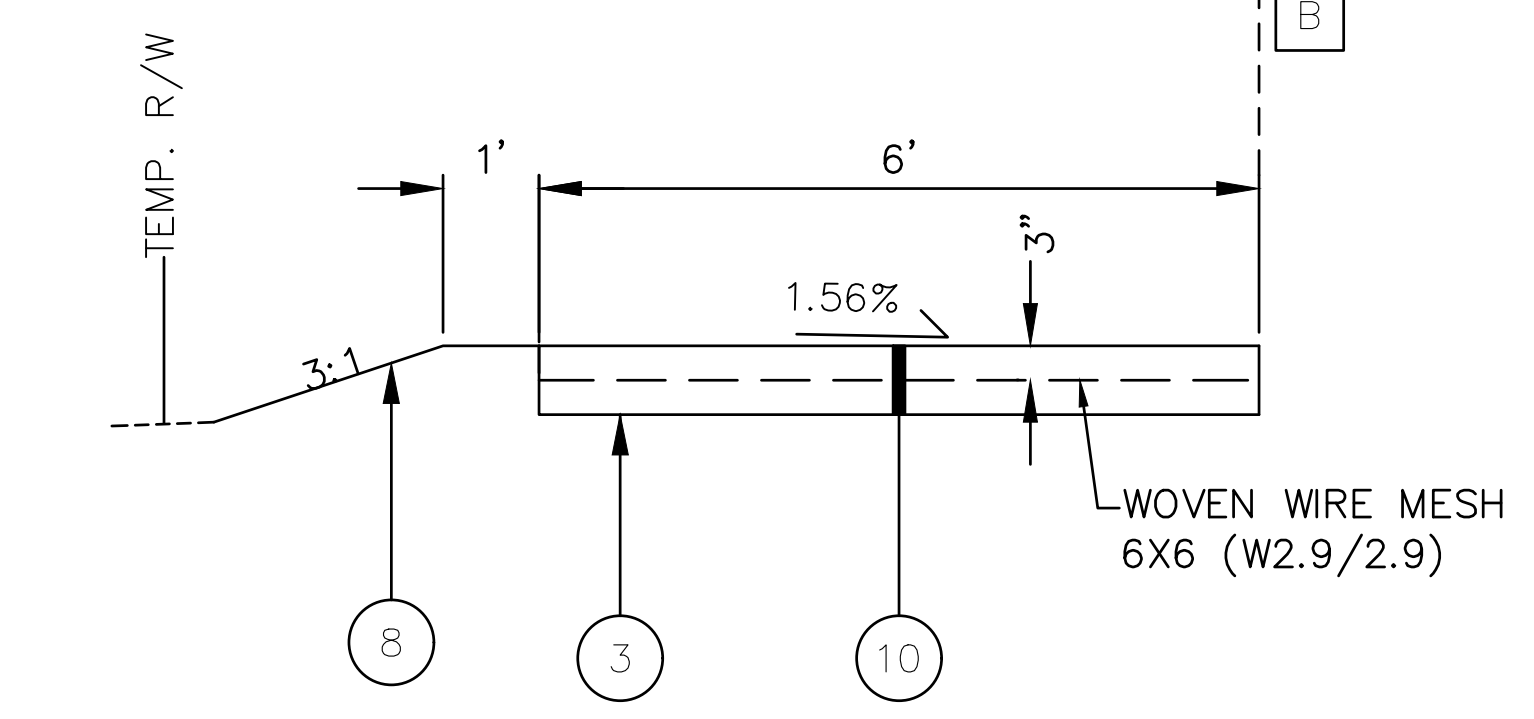
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|--|--|---|--|
| ① ITEM 609 - CURB, TYPE 6 | ⑤ ITEM 608 - 5" CONCRETE WALK | ⑨ LEFT SEAT WALL - SEE SHEETS 73-75, 78-80 | Ⓐ EXISTING ASPHALT PAVEMENT, THICKNESS UNKNOWN |
| ② ITEM 407 - TACK COAT (0.055 GAL/SY) | ⑥ ITEM 608 - 5" CONCRETE WALK, AS PER PLAN, STAMPED AND DYED | ⑩ RIGHT SEAT WALL - SEE SHEETS 73, 76-77, 81-83 | |
| ③ ITEM 204 - SUBGRADE COMPACTION | ⑦ ITEM 304 - 6" AGGREGATE BASE | ⑪ ITEM 302 - 10½" ASPHALT CONCRETE BASE COURSE, PG 64-22 (3 - 3½" LIFTS) PROVIDE TACK BETWEEN EACH LIFT | |
| ④ ITEM 605 - 6" BASE PIPE UNDERDRAIN** | ⑧ ITEM 659 - SEEDING AND MULCHING | ⑫ ITEM 442 - 1½" ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (448) | |

NOTE:
*SAWCUTS TO BE MADE TO SOUND PAVEMENT

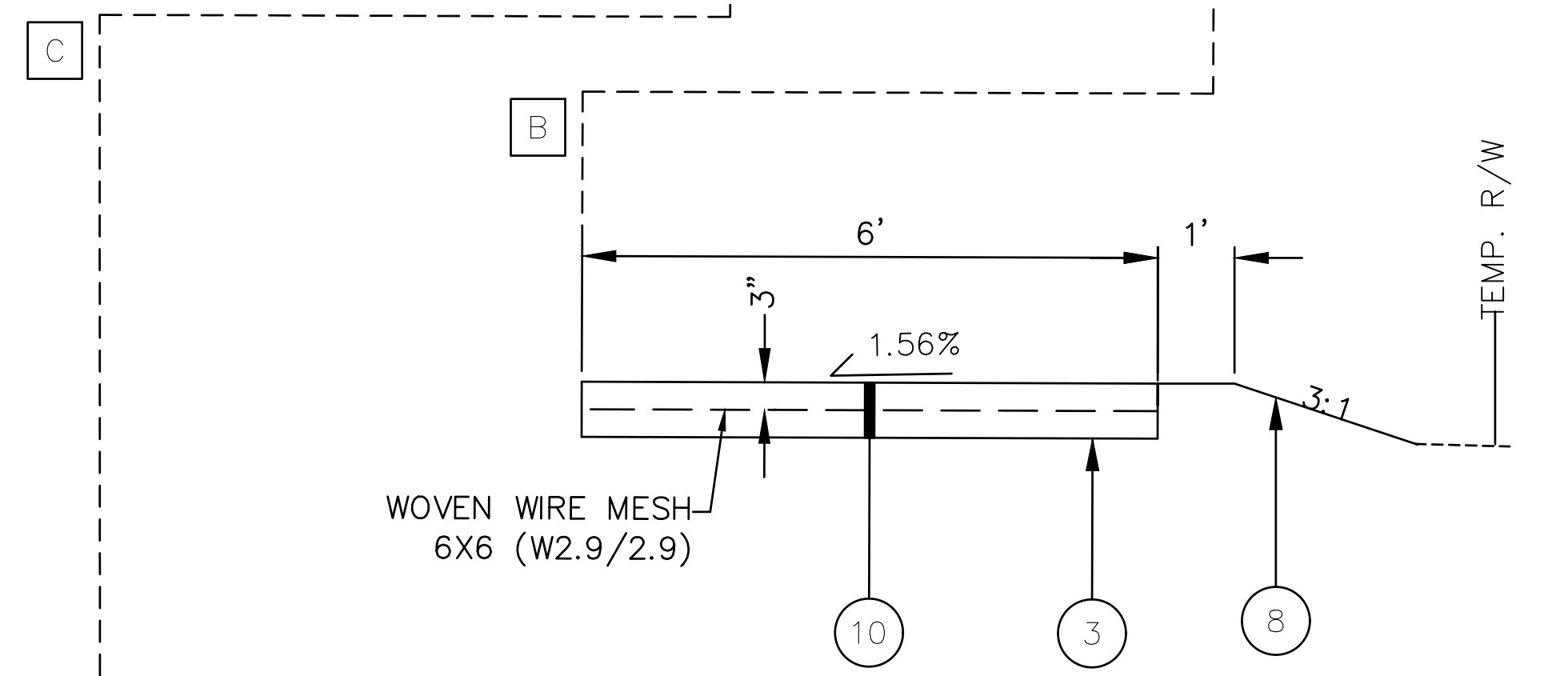


BUS PULL OFF TYPICAL SECTION
N.T.S.

STA. 570+64.88 TO STA. 571+14.88 LEFT
STA. 569+81.70 TO STA. 569+83.62 RIGHT
STA. 570+16.38 TO STA. 570+31.70 RIGHT

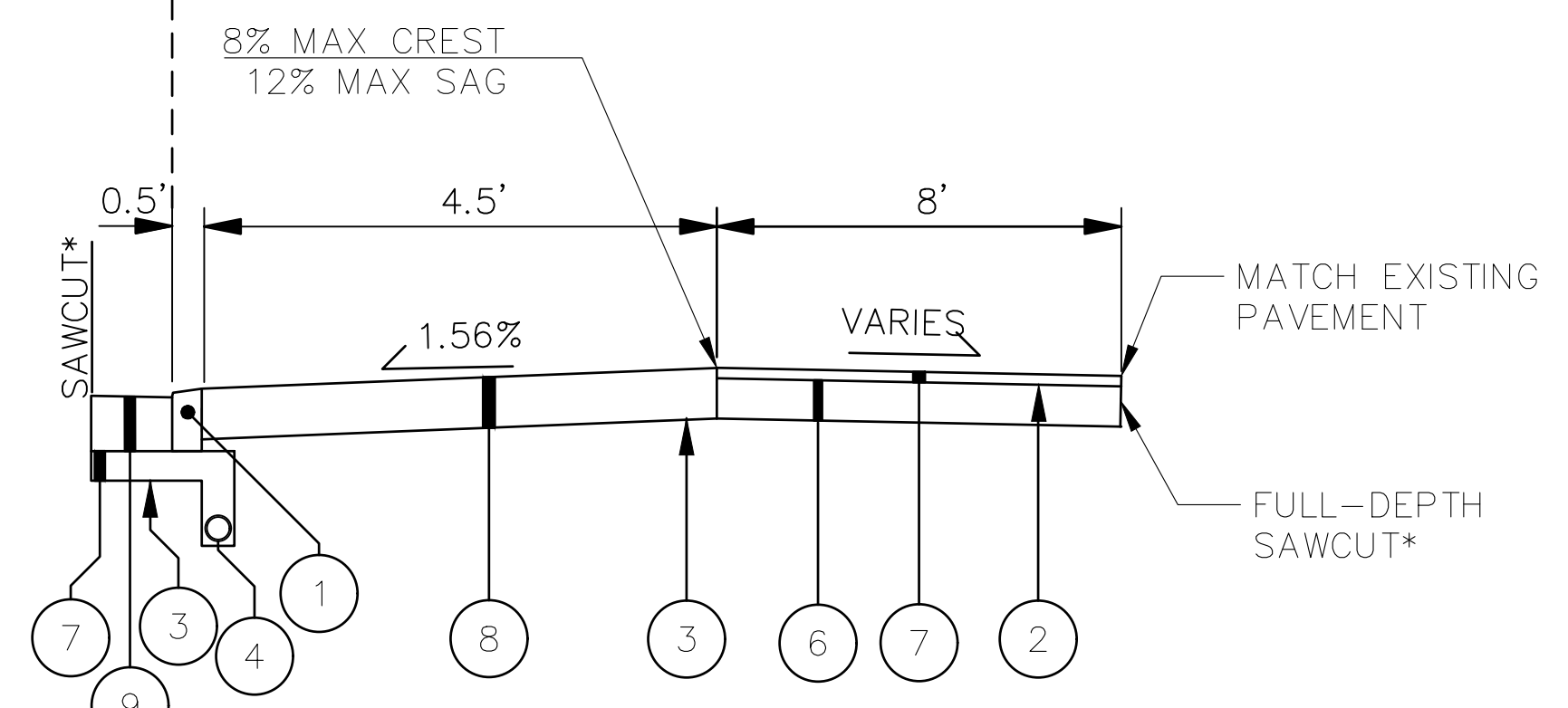


B STA. 570+59.15 TO STA. 570+79.57



B STA. 570+16.83 TO STA. 570+37.24

C STA. 569+83.62 TO STA. 570+16.38



NOTE:
*SAWCUTS TO BE MADE TO SOUND PAVEMENT

NOTE:
ALL *SAWCUTS TO BE MADE TO SOUND PAVEMENT

ITEM LEGEND

- | | | | | | | | |
|---|--------------------------------------|---|--|----|--|-----|--|
| 1 | ITEM 609 - CURB, TYPE 6 | 5 | ITEM 608 - 5" CONCRETE WALK | 9 | ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT | (A) | EXISTING ASPHALT PAVEMENT, THICKNESS UNKNOWN |
| 2 | ITEM 407 - TACK COAT (0.055 GAL/SY) | 6 | ITEM 608 - 5" CONCRETE WALK, AS PER PLAN, STAMPED AND DYED | 10 | ITEM 451 - 6" REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN (REFER TO BUS STOP SHELTER DETAIL ON PAGE 38) | | |
| 3 | ITEM 204 - SUBGRADE COMPACTION | 7 | ITEM 304 - 6" AGGREGATE BASE | | | | |
| 4 | ITEM 605 - 6" BASE PIPE UNDERDRAIN** | 8 | ITEM 659 - SEEDING AND MULCHING | | | | |

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UTILITY OWNERSHIP

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

DUKE ELECTRIC (DISTRIBUTION)
2010 DANA AVE
CINCINNATI, OHIO 45207
513-514-8211 (AARON WRIGHT)
AARON.WRIGHT@DUKE-ENERGY.COM

DUKE ENERGY - GAS
139 EAST 4TH STREET, ROOM 460A
CINCINNATI, OHIO 45202
513-287-2517 (MARK BRANSCUM)
MARK.BRANSCUM@DUKE-ENERGY.COM
(PLEASE SEND ALL UTILITY PLAN REVIEWS TO THIS ADDRESS:
OH/KYHOUSEBILL@DUKE-ENERGY.COM)

CINCINNATI BELL TELEPHONE (UNDERGROUND)
221 EAST 4TH STREET, BLDG. 121-900
CINCINNATI, OHIO 45201
513-565-7187 (BRECK COWAN)
(PLEASE SEND ALL UTILITY PLAN REVIEWS TO THIS ADDRESS:
ROADPROJECTS@CINBELL.COM)

CINCINNATI BELL TELEPHONE (AERIAL)
209 WEST 7TH STREET, BLDG. 121-900
CINCINNATI, OHIO 45202
513-565-6014 (ROBERT STROCHINSKY)
(PLEASE SEND ALL UTILITY PLAN REVIEWS TO THIS ADDRESS:
ROADPROJECTS@CINBELL.COM)

CHARTER COMMUNICATIONS/SPECTRUM
10920 KENWOOD ROAD
BLUE ASH, OHIO 45242
513-386-5918 (TODD VANVRANKEN)
(SEND ALL PLANS/CORRESPONDENCE TO EMAIL BOX FOR DISTRIBUTION:
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM)

MCI/VERIZON
5400 DUFF ROAD
CINCINNATI, OHIO 45129
254-721-8977 (BRUCE TURKIEWICZ)
BRUCE.TURKIEWICZ@VERIZONWIRELESS.COM

TEAM FISHEL
4740 R INTERSTARE DRIVE
WEST CHESTER, OHIO 45246
937-233-2268 (TYLER SPARKS)
TSSPARKS@TEAMFISHEL.COM

GREATER CINCINNATI WATER WORKS
4747 SPRING GROVE AVENUE
CINCINNATI, OHIO 45232
513-591-5056 (MIKE LAWSON)
MIKE.LAWSON@GCWW.CINCINNATI-OH.GOV

METROPOLITAN SEWER DISTRICT
1600 GEST STREET
CINCINNATI, OHIO 45204
513-244-1369 (ALICE OLIVER)
(PLEASE SEND ALL UTILITY PLAN REVIEWS TO THIS ADDRESS:
MSDUTILITYREVIEW@CINCINNATI-OH.GOV)

EXISTING FACILITIES

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THEIR WORK IN SUCH MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY DAMAGE TO ANY EXISTING FACILITY OCCURS DUE TO THE CONTRACTOR'S OPERATIONS, THEY SHALL REPLACE THE DAMAGED FACILITY AT THEIR EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

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 BETWEEN THE HOURS OF 9:00 PM AND 6:00 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.

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.

SURVEYING

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 02 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITION, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 12A

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (86)
ELLIPSOID: GRS80
MAP PROTECTION: LAMBERT
COORDINATION SYSTEM: STATE OF PLANE OH SOUTH
1.000094421104

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 SUPPLEMENTAL SPECIFICATION 823.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATION UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL	37 CU. YD.
659, SEEDING AND MULCHING	336 SQ. YD.
659, REPAIR SEEDING AND MULCHING	17 SQ. YD.
659, COMMERCIAL FERTILIZER	0.05 TON
659, LIME	0.07 ACRE
659, WATER	1.8 M. GAL.

ITEM 690 - SPECIAL - VERIZON/MCI UTILITY SLEEVING

VERIZON/MCI FIBER LINES WITHIN 12 INCHES OF THE BOTTOM OF WALL FOOTER REQUIRE A SLEEVE. USE SCHEDULE 40 STEEL PIPE AND SHALL ALLOW 1 INCH CLEAR ALL AROUND THE UTILITY BEING SLEEVED. THE COST OF THE SLEEVE AND INSTALLATION ARE INCLUDED IN THE CONTRACT UNIT PRICE OF OTHER RELEVANT PAY ITEMS. RESPECTIVE APPROVALS FROM UTILITIES AND THE PIPE SLEEVE WALL LOCATION: L9, R1, R2, R3, R4, R5, R6, R9, R10

MSD SANITARY SEWERS

HAND DIGGING IT TO OCCUR WITHIN 18" OF ANY SANITARY MAIN OR LATERAL. CONTRACTOR TO FIELD VERIFY LATERAL DEPTHS PRIOR TO EXCAVATION. IF 18" CLEARANCE CANNOT BE OBTAINED CONTRACTOR TO PROVIDE CONCRETE ENCASEMENT PER MSD ACC. NO. 49057.

CINCINNATI BELL UTILITIES

CBT HAS AN EXISTING (10) DUCT CONDUIT SYSTEM THAT WILL BE IN CLOSE PROXIMITY OF ALL PROPOSED WALL SEGMENTS. CAUTION SHOULD BE USED AT ALL TIMES DURING EXCAVATION OF THE PROPOSED WALLS. REFER TO ITEM 203 - EXCAVATION, AS PER PLAN FOR HAND DIGGING REQUIREMENTS.

DURING EXCAVATION AND CONSTRUCTION OF THE PROPOSED WALL SEGMENTS SHOULD THE CBT CONDUIT SYSTEM BE EXPOSED AND THERE IS ANY QUESTION AS TO THE INTEGRITY OR DAMAGE OF THE SYSTEM CONTACT THE CBT INSPECTOR (RICH RAYLE: 513.608.7419) TO FIELD INSPECT PRIOR TO BACKFILLING.

ITEM 203 - EXCAVATION, AS PER PLAN

ANY EXCAVATIONS WHICH OCCURS IN THE "OUPS SAFE WORK / OUPS TICKET MARKINGS" OF THE ALTA FIBER DUCT BANK SHALL BE FIELD LOCATED PRIOR TO PERFORMING BID WORK ITEMS. LIMITS OF EXCAVATION, NEW BID WORK ITEMS, AND EXISTING SURVEY DATA OF THE ALTA FIBER DUCK BANK ARE DOCUMENTED IN THE CROSS SECTIONS, AS WELL AS, PLAN AND PROFILE SHEETS.

IT MAY BE NECESSARY TO HAND DIG IN ORDER TO PROTECT THE INTEGRITY OF THE SYSTEM AS DIRECTED BY THE PROJECT ENGINEER.

IF THERE IS ANY QUESTION AS TO THE INTEGRITY OF THE SYSTEM OR DAMAGE TO THE SYSTEM CONTACT THE CBT INSPECTOR (RICH RAYLE: 513.608.7419) TO FIELD INSPECT PRIOR TO BACKFILLING.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT TO COMPLETE WORK FOR ITEM 203: EXCAVATION, AS PER PLAN.

ITEM 690 - SPECIAL - SLEEVE EXISTING GAS LINE

THIS ITEM SHALL INCLUDE THE INSTALLATION OF RUBBER INSULATION WITH A PLASTIC JACKET ON ALL GAS LINE CROSSINGS WITHIN 2 FEET OF THE BOTTOM OF THE SEAT WALLS FOOTER. SLEEVING TO OCCUR 2 FEET TO EITHER SIDE OF THE WALL. INSTALLATION TO BE PER MANUFACTURER SPECIFICATIONS.

INSULATION TO BE MCCMASTER CARR ITEM# 4463K142 FLEXIBLE RUBBER FOAM PIPE INSULATION OR APPROVED EQUAL

JACKET TO BE MCCMASTER-CARR ITEM #45325K153 PLASTIC PIPE INSULATION JACKETING OR APPROVED EQUAL

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT TO COMPLETE WORK FOR ITEM 690: SPECIAL - SLEEVE EXISTING GAS LINE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE OFFICE OF COMMUNICATIONS. THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO OFFICE OF COMMUNICATION
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES AND RESTRICTIONS	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	< 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE
	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTICE TO OFFICE OF COMMUNICATIONS TIME TABLE.

UNRECORDED STORM WATER DRAINAGE

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECT-STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 6" CONDUIT, TYPE B, FOR DRAINAGE CONNECTION 100 FT 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.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS

ITEM 611 - 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS

UNDERDRAINS SHOULD BE CORED INTO THE EXISTING STRUCTURE AND SUBSEQUENTLY GROUTED PER 611.10.B

"OMUTCD" REFERS TO "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING".
"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.

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REQUIREMENTS OF LACP CCTV

PRECONSTRUCTION AND POST CONSTRUCTION VIDEO INSPECTIONS ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR THE SEWER LATERALS THAT ARE TO REMAIN IN PLACE AND IN SERVICE. IF DAMAGE IS FOUND IN THE PRECONSTRUCTION VIDEO THE CONTRACTOR SHALL DOCUMENT THE DAMAGE AND PROVIDE THE DOCUMENTATION TO THE ENGINEER. IF DAMAGE IS FOUND IN THE POST CONSTRUCTION VIDEO THEN REPAIRS TO THE SATISFACTION OF THE DEPARTMENT AND MSD SHALL BE PERFORMED BY THE CONTRACTOR AT NO EXTRA COST. REFER TO MSD STANDARDS FOR VIDEO INSPECTION AND FORMAT REQUIREMENTS. THE POST CONSTRUCTION VIDEO WILL USED TO COMPARE TO THE PRECONSTRUCTION VIDEO TO DETERMINE IF ANY NEW DAMAGE WAS CREATED DUE TO THE PROJECT. ALL PROPOSED MODIFICATIONS TO EXISTING COMBINED AND SANITARY SEWERS MUST BE REVIEWED AND APPROVED BY MSD.

ALL STORM BUILDING SEWER INSPECTIONS (LACP) CCTV WORK TO BE PERFORMED VIA THIS NOTE SHALL BE CARRIED OUT UTILIZING A COLOR PAN AND TILT ROTATING HEAD CAMERA SPECIFICALLY DESIGNED AND CONSTRUCTED FOR SEWER INSPECTION. ALL CCTV WORK SHALL BE RECORDED ENTIRELY IN DIGITAL MP4 FORMAT ENCODED WITH A FILE COMPRESSION OF HIGH EFFICIENCY VIDEO CODING (HEVC OR H.265) (OTHER FORMATS NEED MSDGC PM APPROVAL) WITH AN APPROPRIATE PACP/LACP DATABASE FILE (NASSCO PACP/LACP V7.0 CERTIFIED ACCESS DATABASE HAVING COMPATIBILITY WITH PIPETECH@PIPELINE INSPECTION SOFTWARE), AND ALL VIDEO MUST BE CONTINUOUSLY METERED.

ROBOTIC LACP INSPECTION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- EMPLOYING VARIOUS FLOW CONTROL METHODS AS APPROPRIATE TO ENSURE VISIBILITY OF THE ENTIRE CIRCUMFERENCE OF THE SEWER.
• CONDUCTING A FINAL TELEVISIONING OF EACH INDIVIDUAL BUILDING SEWER FROM THE MAIN SEWER LINE TO THE PUBLIC RIGHT OF WAY DESIGNATION OR SEWER EASEMENT LIMIT. UNLESS OTHERWISE DIRECTED BY MSD PERSONNEL, THE EASEMENT LIMIT SHOULD BE ASSUMED TO BE A MINIMUM OF 10'. THIS FINAL TELEVISIONING SHALL BE IN LACP AND SHALL FOLLOW ALL LACP V7.0 STANDARDS. IF A FULL MAINLINE TO RIGHT OF WAY OR EASEMENT INSPECTION IS UNABLE TO BE COMPLETED DUE TO AN OBSTRUCTION OF ANY SORT, SAID OBSTRUCTION MUST BE LOCATED AND REPORTED TO THE MSD PM IMMEDIATELY.
• ROBOTIC LACP INSPECTION SHALL BE DONE FROM THE MAIN SEWER OR AVAILABLE CLEANOUT OR ACCESS POINT. THE CONTRACTOR SHALL USE ROBOTIC TECHNOLOGY TO PUSH OR LAUNCH THE LATERAL CAMERA INTO THE BUILDING SEWER FROM THE MAINLINE. IF THE CONTRACTOR IS UNABLE TO PERFORM AN INSPECTION OF THE LATERAL DUE TO DEBRIS, ROOTS OR OTHER OBSTACLES IN THE BUILDING SEWER LATERAL, THEY SHALL CONTACT THE MSD PM FOR DIRECTION.

SUBMITTAL OF WORK TO MSDGC
WORK COMPLETED AND SUBMITTED TO MSDGC SHALL FOLLOW THE SPECIFICATIONS DETAILED IN THE SUBSECTIONS BELOW. REQUIREMENTS OF ALL PACP AND LACP CCTV SUBMITTALS AND MANHOLE INSPECTION SUBMITTALS
ALL SUBMITTALS OF PACP AND LACP INSPECTIONS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

- EACH SUBMITTAL – THE PACP/LACP DATABASE FILE AND ITS CORRESPONDING VIDEO FILES – SHALL CONTAIN WORK FROM ONLY 1 (ONE) INSPECTOR AND ONLY 1 (ONE) CCTV WORK CATEGORY FROM THE LIST BELOW:
O STORM BUILDING SEWER INSPECTIONS (LACP)
• EACH SUBMITTAL SHALL BE ASSIGNED A UNIQUE TRACKING IDENTIFIER.
O IN THE EVENT THAT A SUBMITTAL IS REJECTED AS UNACCEPTABLE, THE MSD PM SHALL DIRECT THE CONTRACTOR WHETHER TO REUSE THE ORIGINAL OR TO ASSIGN A NEW TRACKING IDENTIFIER.
• EACH SUBMITTAL SHALL INCLUDE INSPECTIONS FROM ONLY ONE CALENDAR MONTH.
• EACH LACP VIDEO FILE MUST BE IN STANDARD *.MP4 FORMAT AND NAMED AS DESCRIBED BELOW:
*[MONTH]_[DAY]_[YEAR]-[HOUR]_[MINUTE]_[AM/PM]-[INSPECTOR NAME]-[ADDRESS]-[STREET]-[WORK ORDER NUMBER].MP4
*E.G., 1_02_2012-07_51_PM-E SCHNEIDER-842 SUNDERLAND DR-405623.MP4
• ALL LACP INSPECTIONS MUST BE SUBMITTED WITHIN FOURTEEN (14) CALENDAR DAYS OF THE DATE OF WORK.

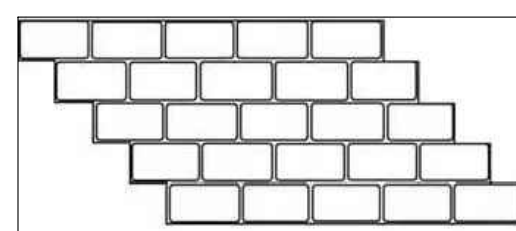
- IN THE CASE OF REJECTION OF A WHOLE OR ANY PART OF A SUBMITTAL, CONTRACTOR SHALL HAVE FOURTEEN (14) CALENDAR DAYS FROM THE DATE OF NOTIFICATION OF SAID REJECTION TO ADDRESS, CORRECT, AND/OR RE-PERFORM AND THEN RE-SUBMIT SAID WORK TO MSDGC.

ALL WORK, LABOR AND MATERIALS, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 690 SPECIAL – LACP CCT

ITEM 608 – 5" CONCRETE WALK, AS PER PLAN

THIS ITEM SHALL CONSIST OF ITEM 608 5" CONCRETE WALK THAT IS STAMPED AND COLORED PER SPECIFICATIONS BELOW OR APPROVED EQUAL.

PATTERN: SOLOMAN COLORS-BRICKFORM-PALADIANO -YORKSHIRE COBBLE
HTTPS://WWW.SOLOMONCOLORS.COM/PAGES/BRICKFORM/PALADIANO.PHP#GSC.TAB=0



COLOR: BUTTERFIELD COLOR U33-HAMPSHIRE RED
HTTPS://WWW.BUTTERFIELDCOLOR.COM/PRODUCT-CATEGORY/INTEGRAL-CONCRETE-COLOR/

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT TO COMPLETE WORK FOR ITEM 608: 5" CONCRETE WALK, AS PER PLAN.

ITEM 202 – CATCH BASIN REMOVED, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE REMOVAL OF THE EXISTING CURB INLET FRAME AND GRATE TO THE ELEVATION REQUIRED TO INSTALL THE PROPOSED FRAME AND GRATE. EXISTING STORM PIPE CONNECTIONS ARE NOT TO BE DISTURBED.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE WORK.

ITEM 611 – CATCH BASIN FRAME AND GRATE, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE INSTALLATION OF A TYPE 6 CATCH BASIN FRAME AND GRATE ON THE EXISTING STORM STRUCTURE. A 1" THICK (MIN) STEEL PLATE SHALL BE USED TO CONNECT THE TYPE 6 INLET TO THE EXISTING CONCRETE STRUCTURE.

THE GRATE ELEVATION SHALL MATCH THE EXISTING ELEVATION. EXISTING STORM PIPE CONNECTIONS ARE NOT TO BE DISTURBED.

THE UNIT BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE WORK.

AIRWAY/HIGHWAY CLEARANCE FOR PUBLIC AIRPORTS

NO PUBLIC OR PRIVATE AIRWAY/HIGHWAY ARE LOCATED WITHIN 20,000 FEET OF THE PROJECT AREA. NOTIFICATION IS NOT REQUIRED

ITEM SPECIAL – CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION

ALL CONCRETE SHALL BE TESTED. ALL TESTING INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CMS SPECIFICATIONS 455 RESPECTIVELY.

THROUGH THE CONTRACTOR, THE CONSULTANTS SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN

ITEM SPECIAL – CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION (CONT.)

ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATION AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANTS SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

THE TECHNICIAN SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TEST AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATION UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANTS SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE-TESTING WORK.

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OH OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:
UPON APPROVAL OF CONSULTANT..... 20%
PROGRESSIVE EQUIVALENT PAYMENTS..... 50%
UPON SUBMISSION OF FINAL REPORT..... 30%

THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES.

PARKING DISRUPTION LIMITATION

THE CONTRACTOR IS TO SCHEDULE THEIR WORK SUCH THAT FULL ACCESS IS PROVIDED TO THE AFFECTED BUSINESS. FOR THE BUSINESSES/PARCELS LISTED IN THE FOLLOWING TABLE, THE CONTRACTOR IS TO KEEP ANY DISRUPTION OF PARKING AND BUSINESS TRAFFIC FLOW WITHIN THE TEMPORARY RIGHT OF WAY TO A MINIMUM. THIS LIMITATION ALSO INCLUDES THE DRIVEWAY APRON AND THE SIDEWALK WORK INSIDE PUBLIC RIGHT OF WAY. THIS LIMITATION DOES NOT INCLUDE SEEDING AND MULCHING WORK. PARKING/TRAFFIC FLOW DISRUPTION WILL BE ALLOWED ONLY ONCE UNLESS NOTED AND WILL BE LIMITED TO THE MAXIMUM DURATION OF 30 DAYS. IN THE EVENT THE TIME DURATION DATE IS EXCEEDED, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AMOUNT OF \$2,500 FOR EACH CALENDAR DAY EXCEEDING THE STIPULATED DURATION OF 30 DAYS.

THE CONTRACTOR SHALL ALSO COORDINATE THIS WORK WITH THE RESPECTIVE PROPERTY/BUSINESS OWNER A MINIMUM OF FOURTEEN CALENDAR DAYS PRIOR TO BEGINNING ANY WORK.

Table with 2 columns: PARCEL and OWNER OF BUSINESS. Lists parcels 3 through 41 and their respective owners.

START OF WORK RESTRICTIONS

ANY WORK IN CONFLICT WITH THE UTILITY RELOCATIONS IDENTIFIED IN THE PROJECT UTILITY NOTE, CAN NOT BE SCHEDULED TO START UNTIL 4/1/2024. BASED ON THE CONTRACTORS MEANS AND METHODS THERE MAY BE WORK THAT CAN BE COMPLETED ALONGSIDE THE UTILITY RELOCATIONS AT THE DISCRETION OF THE PROJECT ENGINEER. SHOULD THE UTILITY RELOCATION WORK BE COMPLETED PRIOR TO 4/1/2024, THIS DATE CAN BE WAIVED AT THE DISCRETION OF THE PROJECT ENGINEER.

"OMUTCD" REFERS TO "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING".
"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICATION" ODOT, CURRENT EDITION.

Projects: 694701_05_deliverables Drawings: 113851 Design: Roadway Sheets: 113851.dwg 18-Apr-25 8:22 AM

CALCULATED: AWM CHECKED: MM GENERAL NOTES HAM-27-11.09 07 98

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF TWO 11 FOOT LANE(S) OF TRAFFIC IN BOTH THE NORTH BOUND AND SOUTH BOUND DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT.

SINGLE LANE CLOSURES SHALL BE MADE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWINGS MT-95.31 CLOSURES WILL BE RESTRICTED TO NIGHT TIME ONLY BETWEEN THE HOURS OF 8 PM AND 6 AM.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR 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 PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES AND SHALL BE CONTROLLED BY TRAFFIC CONTROL DEVICES AS REQUIRED AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B	250 CU. YD.
ITEM 616, WATER	50 M. GAL.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 12 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UN-COMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

SIDEWALK CLOSED SIGNS

THE CONTRACTOR SHALL ERECT AND MAINTAIN, FOR THE DURATION OF THIS PROJECT, "SIDEWALK CLOSED" SIGNS AT ALL INTERSECTIONS AFFECTED BY THE ACTIVE PHASE. "SIDEWALK CLOSED" SIGNS SHALL INCLUDE DETOUR SIGNAGE TO THE OPEN SIDEWALK. FOR FURTHER INFORMATION, SEE SCD MT-110.10.

PAYMENT FOR THE SIDEWALK CLOSED SIGNS SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO INSTALL AND MAINTAIN THE SIGNS, SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 -MAINTAINING TRAFFIC.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN INCLUDED FOR DUST CON-TROL PURPOSES:

ITEM 616, WATER ----- 0.26 M. GAL.

WATER SERVICE REPLACEMENT

A MINIMUM OF ONE 11 FOOT LANE SHALL BE PROVIDED AND MAINTAINED IN BOTH THE NORTH AND SOUTH BOUND DIRECTION AT ALL TIMES BY USE OF THE EXISTING PAVEMENT.

LANE CLOSURES SHALL BE MADE IN ACCORDANCE WITH STANDARD DRAWING MT-95.31. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER.

TRAFFIC SHALL BE MAINTAINED AT ALL INTERSECTIONS AND DRIVES AT ALL TIMES AND SHALL BE CONTROLLED BY TRAFFIC CONTROL DEVICES AS APPROVED BY THE ENGINEER.

TRENCH BACKFILL SHALL BE COMPLETED BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IF WORK CANNOT BE COMPLETED OR MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE UN-COMPLETED TRENCH SHALL BE BACKFILLED OR PLATED AT THE DIRECTION OF THE ENGINEER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

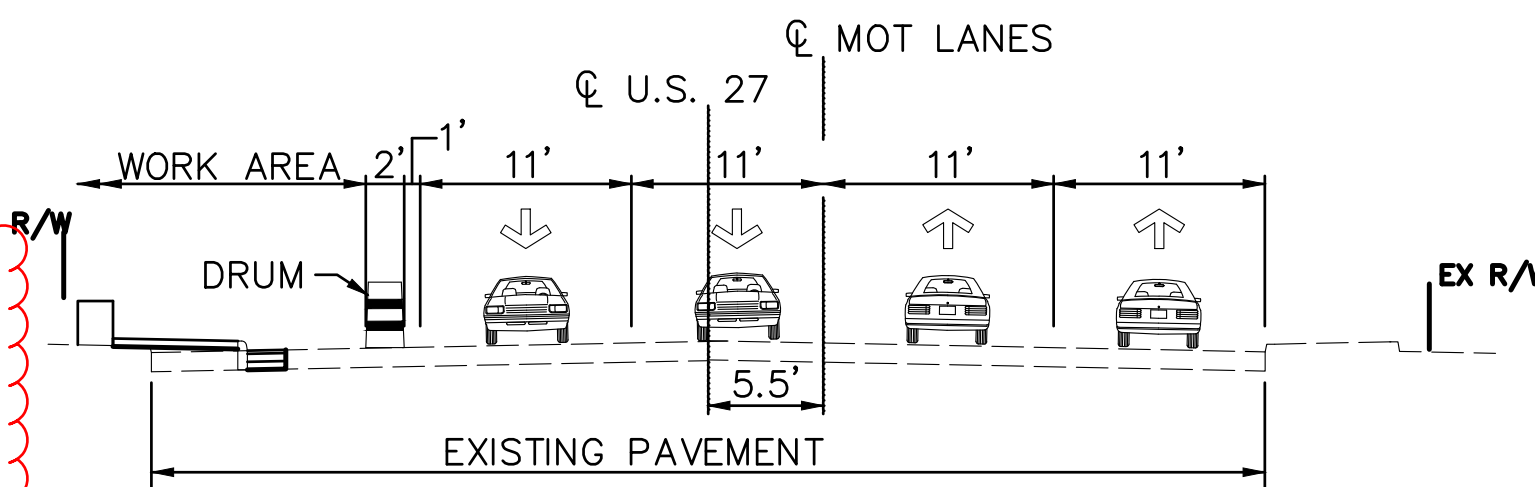
PHASE 1 - LEFT SIDE CURB/SIDEWALK CONSTRUCTION

MAINTAIN TWO 11' LANES IN EACH DIRECTION USING THE EXISTING PAVEMENT AS SHOWN IN THE MOT PLANS.

BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES.

CONSTRUCT PROPOSED CURB ON THE LEFT SIDE (WEST SIDE), RESTORE PAVEMENT.CONSTRUCT THE NEW SIDEWALK AND SEAT WALLS. SEED AND MULCH EXPOSED SOIL.

WORK ZONE PAVEMENT MARKINGS AND MOT EQUIPMENT SHALL BE IN PLACE PRIOR TO OPENING THE LANES OF TRAFFIC FOR THE NEXT PHASE.



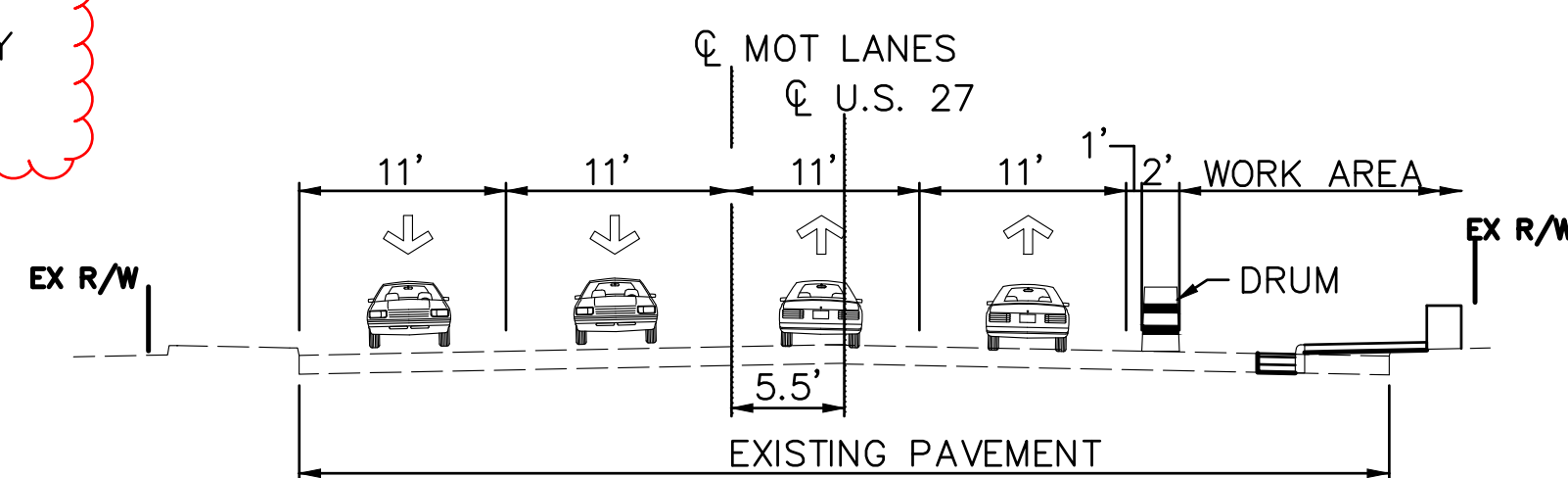
PHASE 2 - RIGHT SIDE CURB/SIDEWALK CONSTRUCTION

MAINTAIN TWO 11' LANES IN EACH DIRECTION USING THE EXISTING PAVEMENT AS SHOWN IN THE MOT PLANS.

BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES.

CONSTRUCT PROPOSED CURB ON THE RIGHT SIDE (EAST SIDE), RESTORE PAVEMENT.CONSTRUCT THE NEW SIDEWALK AND SEAT WALLS. SEED AND MULCH EXPOSED SOIL.

WORK ZONE PAVEMENT MARKINGS AND MOT EQUIPMENT SHALL BE IN PLACE PRIOR TO OPENING THE LANES OF TRAFFIC FOR THE NEXT PHASE.



PHASE 3 - PAVEMENT RESTORATION

MAINTAIN ONE 11' LANE IN EACH DIRECTION USING CONES AND FLAGGERS. PROVIDE TURN LANES WHERE REQUIRED.

RESTORE TRAFFIC TO THE ORIGINAL CONFIGURATION AND PERFORM SHORT TERM LANE CLOSURES PER MT-95.31 AND MT-95.32

ONCE ALL CONSTRUCTION ITEMS HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER, REMOVE ALL MOT EQUIPMENT ITEMS AND OPEN LANES TO THROUGH TRAFFIC.

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW- PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW- PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15TH THROUGH APRIL 1ST.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

RESURFACING OF THE TRANSITION AREAS SHALL BE PERFORMED AT THE TIME THAT THE SURFACE COURSE IS BEING APPLIED TO THE ENTIRE PROJECT. PRIOR TO APPLICATION OF THE SURFACE COURSE ON THE PROJECT, THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH NECESSARY TO REACH THE LEVEL OF THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.

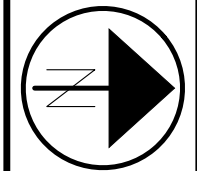
THE FOLLOWING BID ITEMS SHOULD BE INCLUDED IN THE PLANS:

ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	263 EACH
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PAYMENT FOR RESURFACING WITHIN THE TRANSITION AREA SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEMS FOR THE WORK REQUIRED, AS PROVIDED FOR IN THE PLANS.

"PCB" REFERS TO "PORTABLE CONCRETE BARRIER"
"OMUTCD" REFERS TO THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING"
"CMS" REFERS TO "CONSTRUCTION AND MATERIAL SPECIFICA-TION" ODOT, CURRENT EDITION.
"MOT" REFERS TO "MAINTENANCE OF TRAFFIC"

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10
HORIZONTAL
SCALE IN FEET

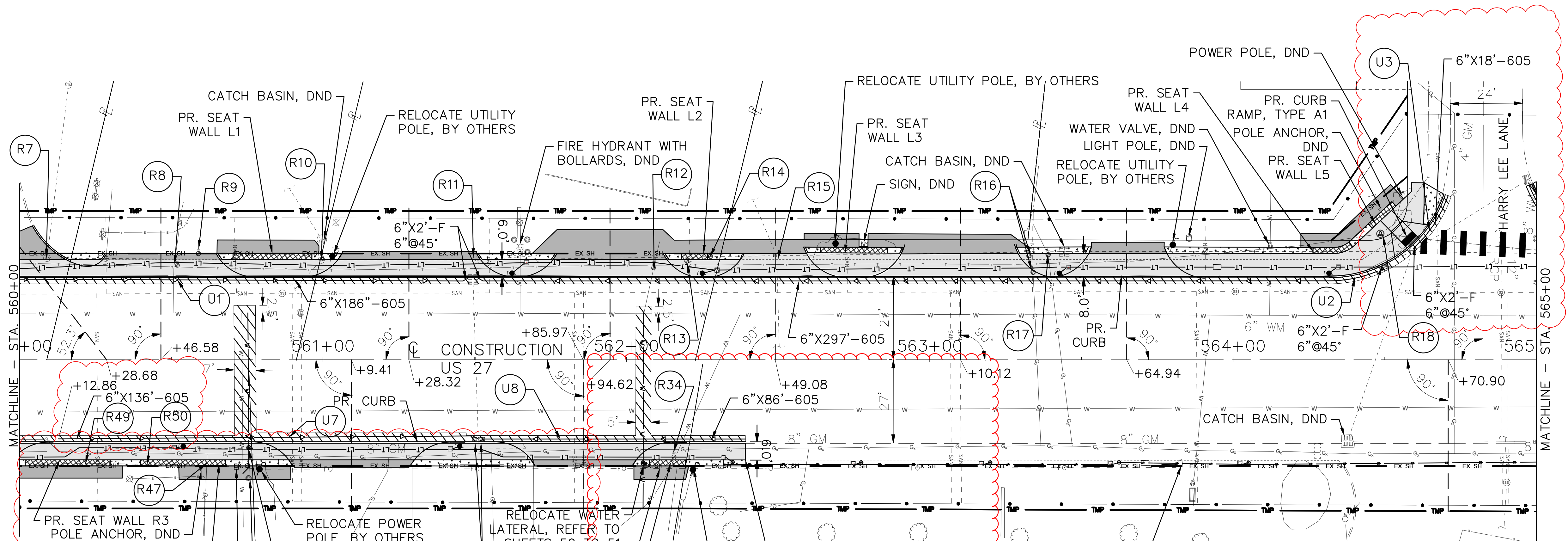
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PLAN AND PROFILE US27
STA. 560+00 TO STA. 565+00

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2 / 4

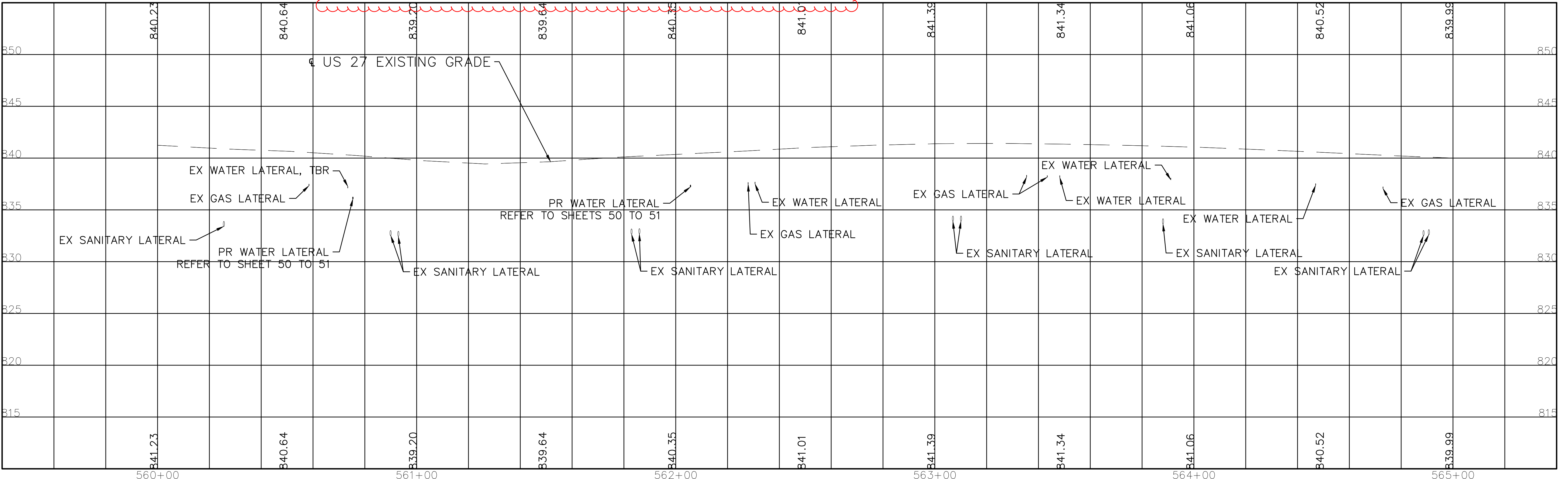
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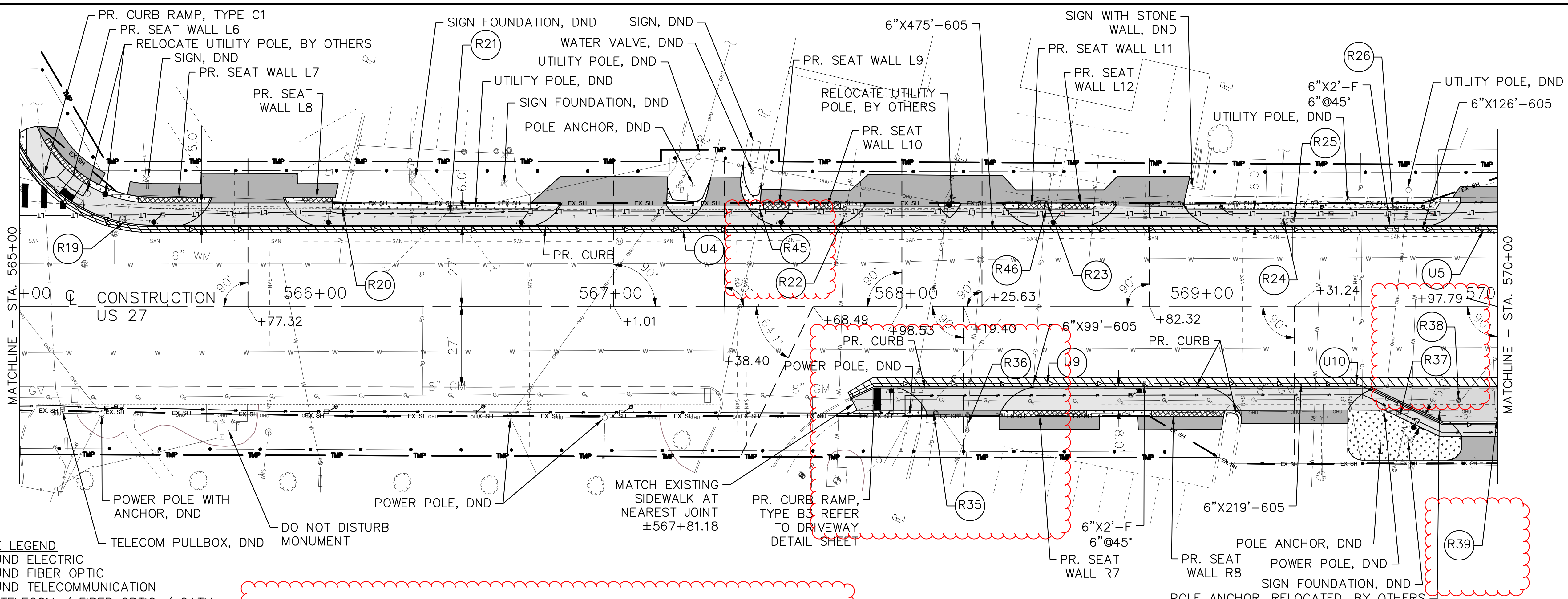
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- E UNDERGROUND ELECTRIC
 - FO UNDERGROUND FIBER OPTIC
 - T UNDERGROUND TELECOMMUNICATION
 - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
 - OHE OVERHEAD ELECTRIC / COMBINED
 - G GAS MAIN
 - W WATER MAIN
 - SAN SANITARY SEWER
 - SS STORM SEWER
 - LT PROPOSED LIGHTING CONDUIT

- LEGEND**
- PR. LIGHT POLE
 - ⊕ PR. LIGHT BOLLARD
 - PR. PULL BOX
 - CONSTRUCTION LIMITS
 - ▭ PROPOSED SIDEWALK
 - ▭ DRIVEWAY AND PARKING LOT
 - ▭ REPAIR LIMITS
 - ▨ SAWCUT AND PAVEMENT REPAIR
 - XXXXXX SEAT WALL

- NOTES**
1. FOR TYPICAL SECTION SEE SHEET 03-05
 2. FOR DRIVEWAY PROFILES SEE SHEETS 43-49
 3. FOR DRIVEWAY DETAILS SEE SHEETS 39-42
 4. FOR HARRY LEE INTERSECTION DETAILS SEE SHEET 36
 5. FOR LIGHTING PLAN SEE SHEETS 56-63
 6. FOR LANDSCAPE PLAN SEE SHEETS 66-72
 7. FOR SEAT WALL PLAN SEE SHEETS 73-83
 8. FOR WATER WORKS PLAN SEE SHEETS 50-51



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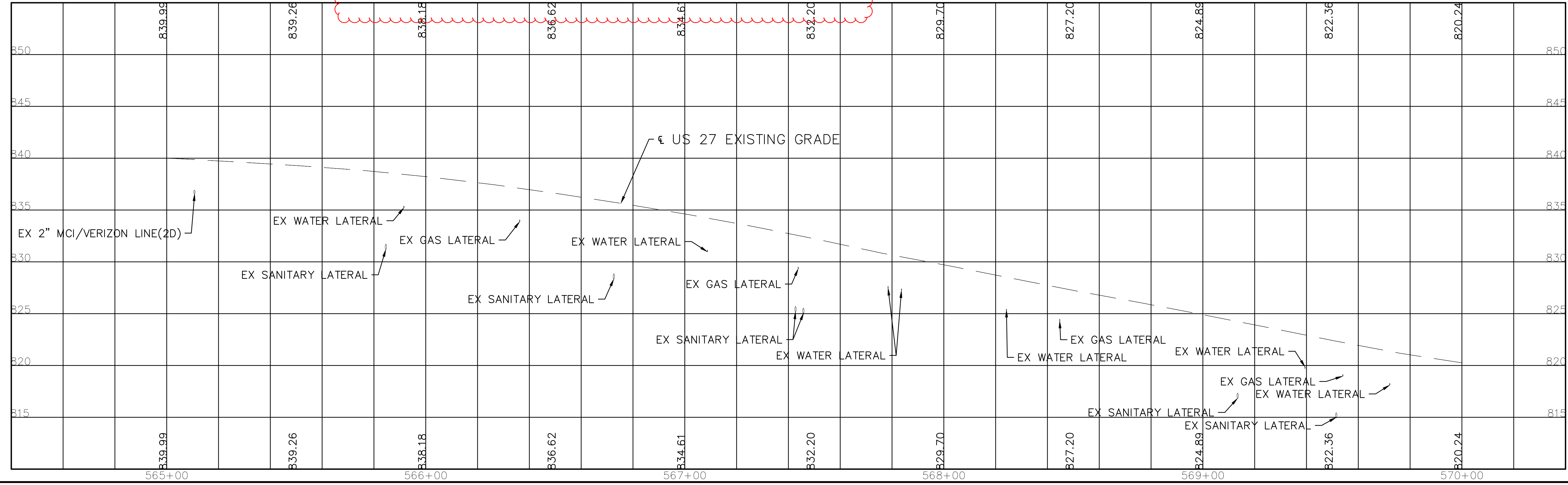
UTILITY LINETYPE LEGEND

—E—	UNDERGROUND ELECTRIC
—FO—	UNDERGROUND FIBER OPTIC
—T—	UNDERGROUND TELECOMMUNICATION
—OHT—	OVERHEAD TELECOM / FIBER OPTIC / CATV
—OHU—	OVERHEAD ELECTRIC / COMBINED
—G—	GAS MAIN
—W—	WATER MAIN
—SAN—	SANITARY SEWER
—SS—	STORM SEWER
—LT—	PROPOSED LIGHTING CONDUIT

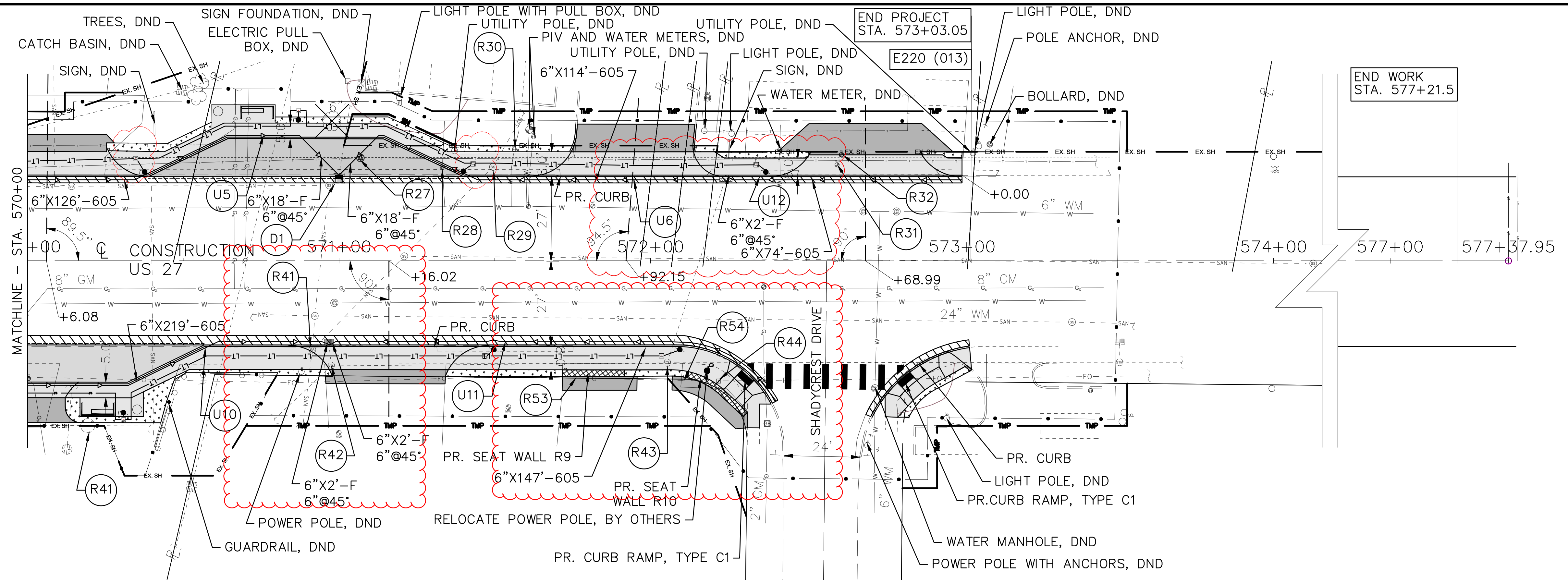
LEGEND

●	PR. LIGHT POLE	▭	PROPOSED SIDEWALK
⊕	PR. LIGHT BOLLARD	▭	DRIVEWAY AND PARKING LOT
□	PR. PULL BOX	▭	REPAIR LIMITS
—	CONSTRUCTION LIMITS	▭	SAWCUT AND PAVEMENT REPAIR
		▭	SEAT WALL

- NOTES**
1. FOR TYPICAL SECTION SEE SHEET 03-05
 2. FOR DRIVEWAY PROFILES SEE SHEETS 43-49
 3. FOR DRIVEWAY DETAILS SEE SHEETS 39-42
 4. FOR HARRY LEE INTERSECTION DETAILS SEE SHEET 36
 5. FOR LIGHTING PLAN SEE SHEETS 56-63
 6. FOR LANDSCAPE PLAN SEE SHEETS 66-72
 7. FOR SEAT WALL PLAN SEE SHEETS 73-83
 8. FOR BUS STOP DETAILS SEE SHEET 38



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MATCHLINE - STA. 570+00

END WORK
STA. 577+21.5

END PROJECT
STA. 573+03.05

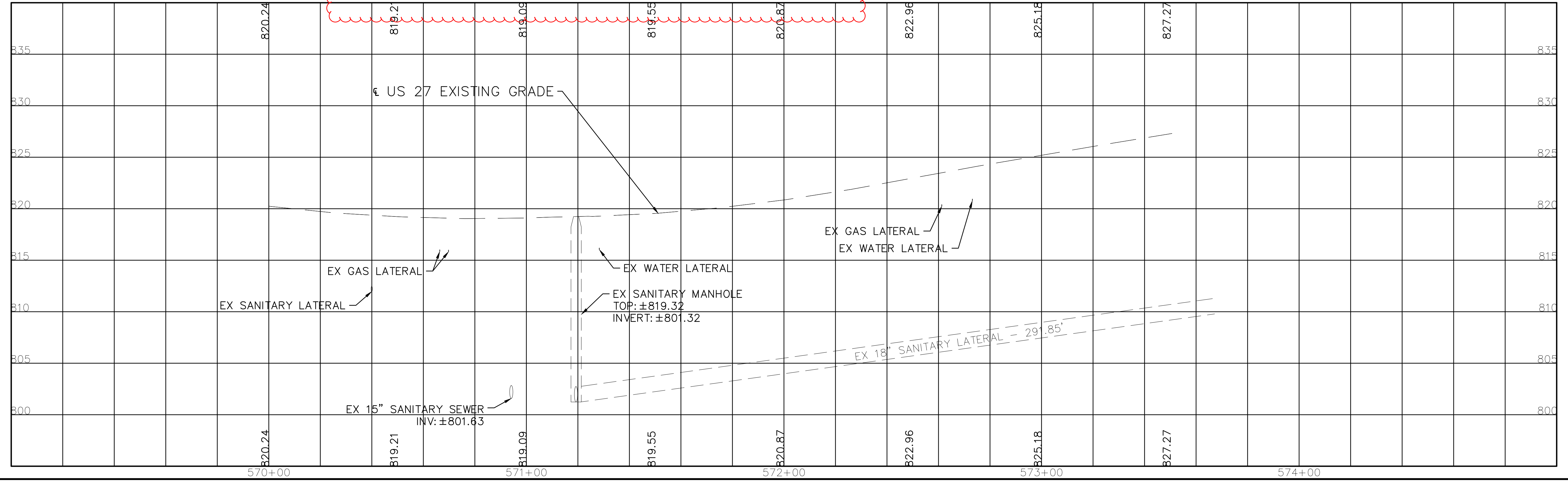
- UTILITY LINETYPE LEGEND**
- E — UNDERGROUND ELECTRIC
 - FO — UNDERGROUND FIBER OPTIC
 - T — UNDERGROUND TELECOMMUNICATION
 - OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
 - OHU — OVERHEAD ELECTRIC / COMBINED
 - G — GAS MAIN
 - W — WATER MAIN
 - SAN — SANITARY SEWER
 - S — STORM SEWER
 - LT — PROPOSED LIGHTING CONDUIT

- LEGEND**
- PR. LIGHT POLE
 - ⊕ PR. LIGHT BOLLARD
 - PR. PULL BOX
 - — — CONSTRUCTION LIMITS

- ▭ PROPOSED SIDEWALK
- ▭ DRIVEWAY AND PARKING LOT
- ▭ REPAIR LIMITS
- ▨ SAWCUT AND PAVEMENT REPAIR
- ▩ SEAT WALL

- NOTES**
1. FOR TYPICAL SECTION SEE SHEET 03-05
 2. FOR DRIVEWAY PROFILES SEE SHEETS 43-49
 3. FOR DRIVEWAY DETAILS SEE SHEETS 39-42
 4. FOR SHADYCREST INTERSECTION DETAILS SEE SHEET 37
 5. FOR LIGHTING PLAN SEE SHEETS 56-63

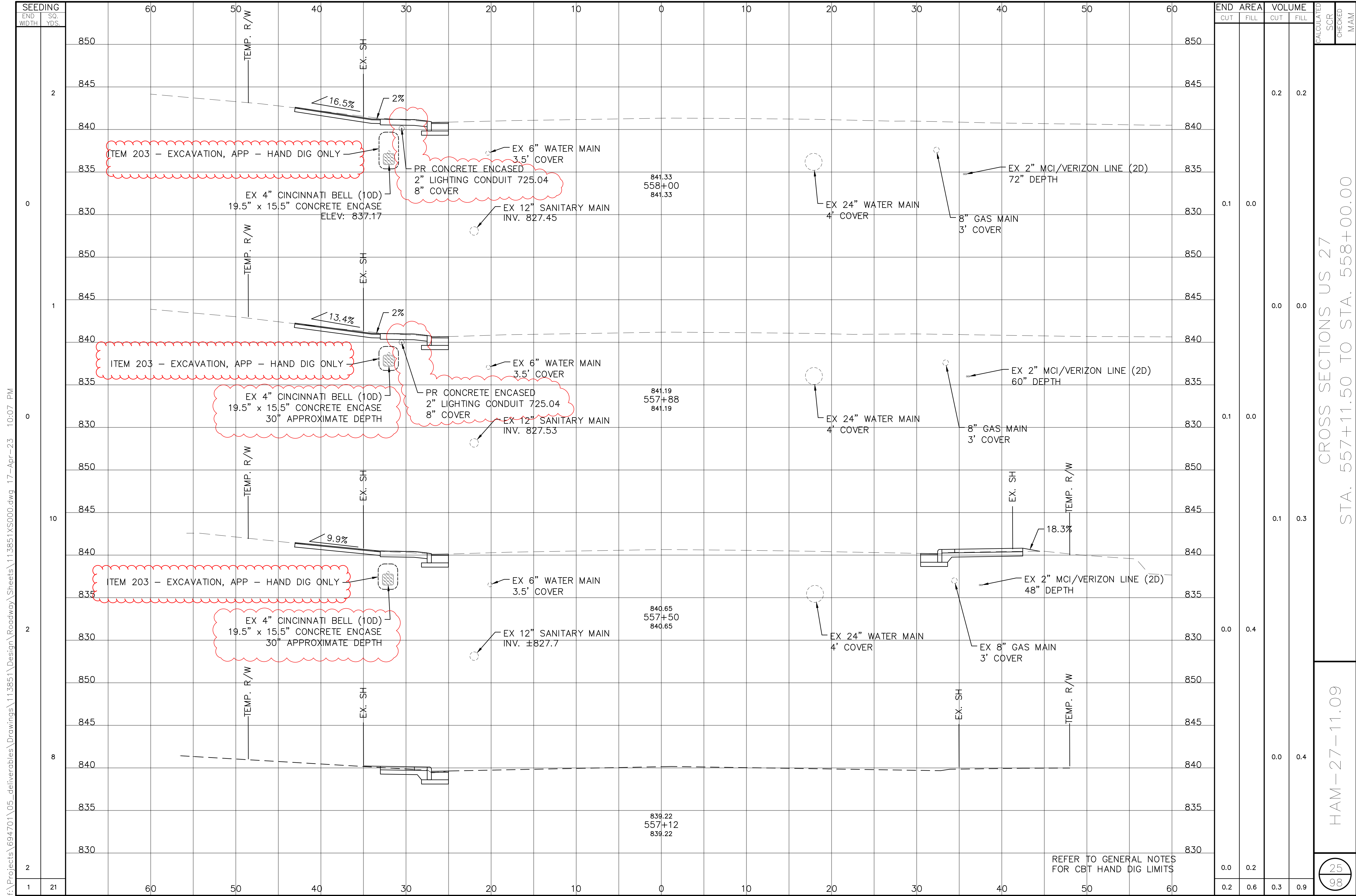
6. FOR LANDSCAPE PLAN SEE SHEETS 66-72
7. FOR SEAT WALL PLAN SEE SHEETS 73-83
8. FOR BUS STOP DETAILS SEE SHEET 38



PLAN AND PROFILE US27
 STA. 570+00 TO STA. 577+21.50

HAM-27-11.09

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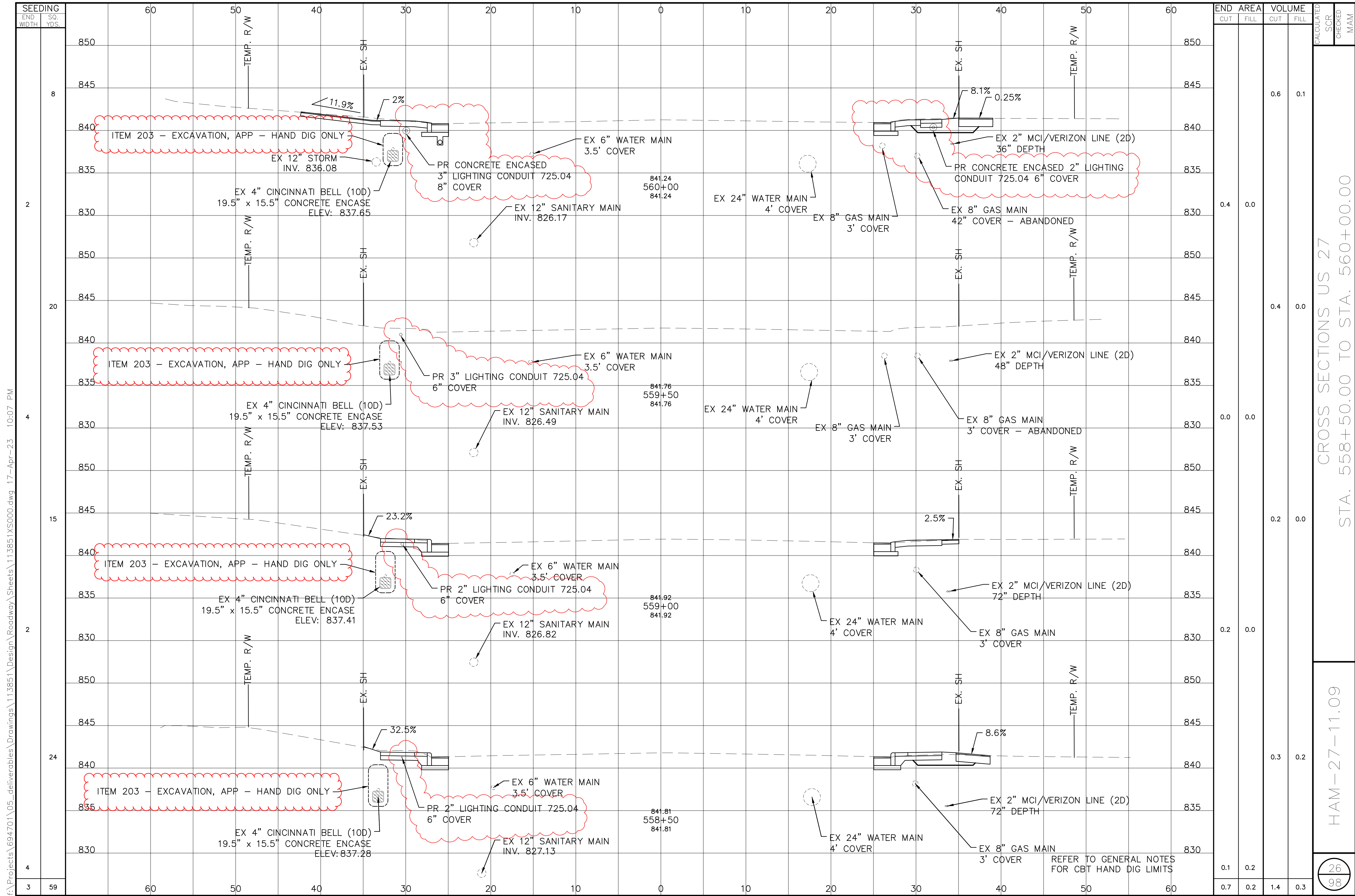
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CROSS SECTIONS US 27
STA. 557+11.50 TO STA. 558+00.00

HAM-27-11.09

25
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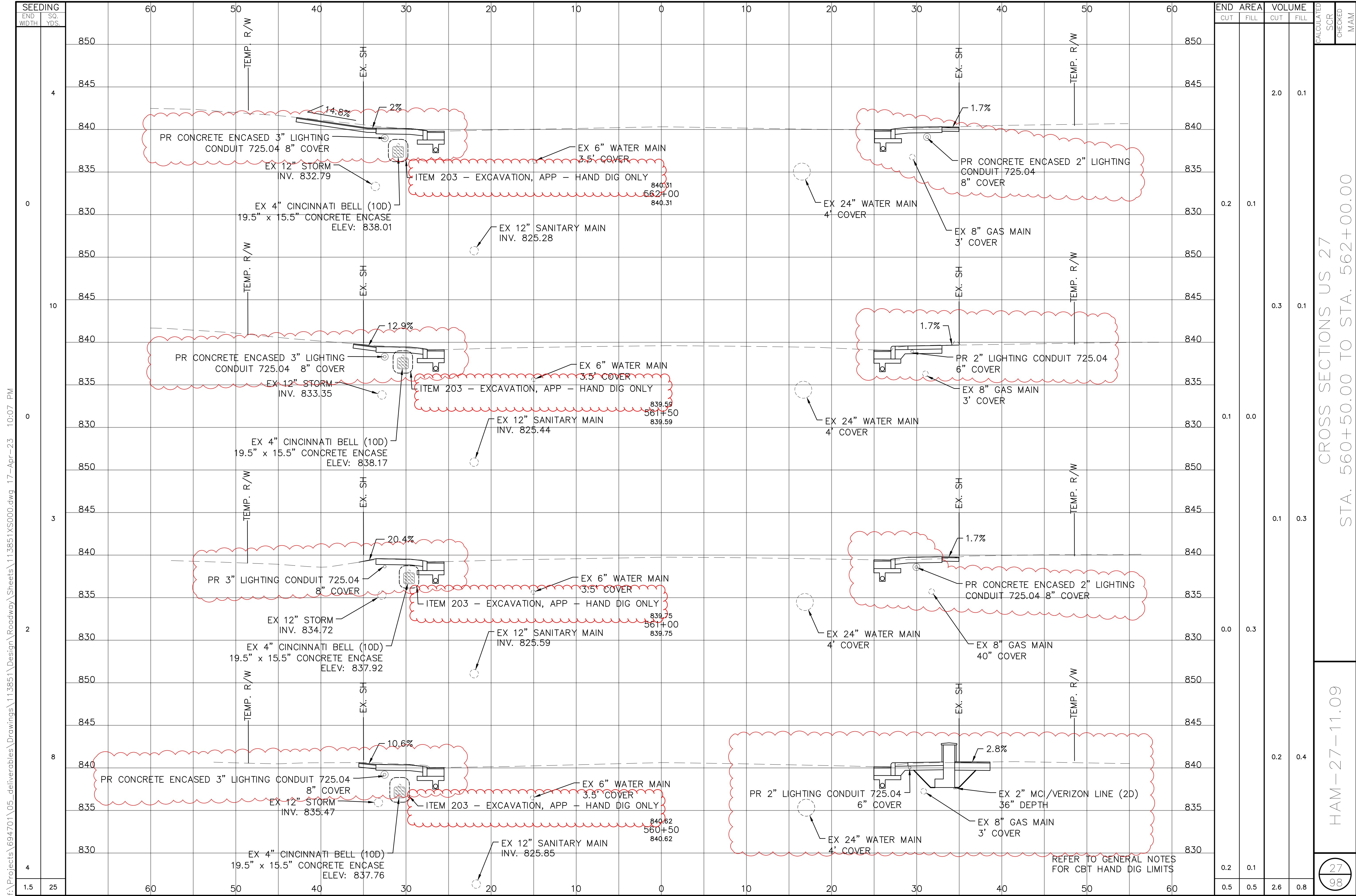
REFER TO GENERAL NOTES FOR CBT HAND DIG LIMITS



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CROSS SECTIONS US 27
STA. 558+50.00 TO STA. 560+00.00
HAM-27-11.09

REFER TO GENERAL NOTES FOR CBT HAND DIG LIMITS



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END STA.	END AREA		VOLUME		CALCULATED	SCR	CHECKED	MAM
	CUT	FILL	CUT	FILL				
560+00	0.0	0.0	0.0	0.0				
560+50	0.2	0.1	2.0	0.1				
561+00	0.1	0.0	0.3	0.1				
561+50	0.1	0.0	0.1	0.0				
562+00	0.1	0.3	0.1	0.3				
562+50	0.0	0.3	0.0	0.3				
563+00	0.2	0.1	0.2	0.4				
563+50	0.5	0.5	2.6	0.8				

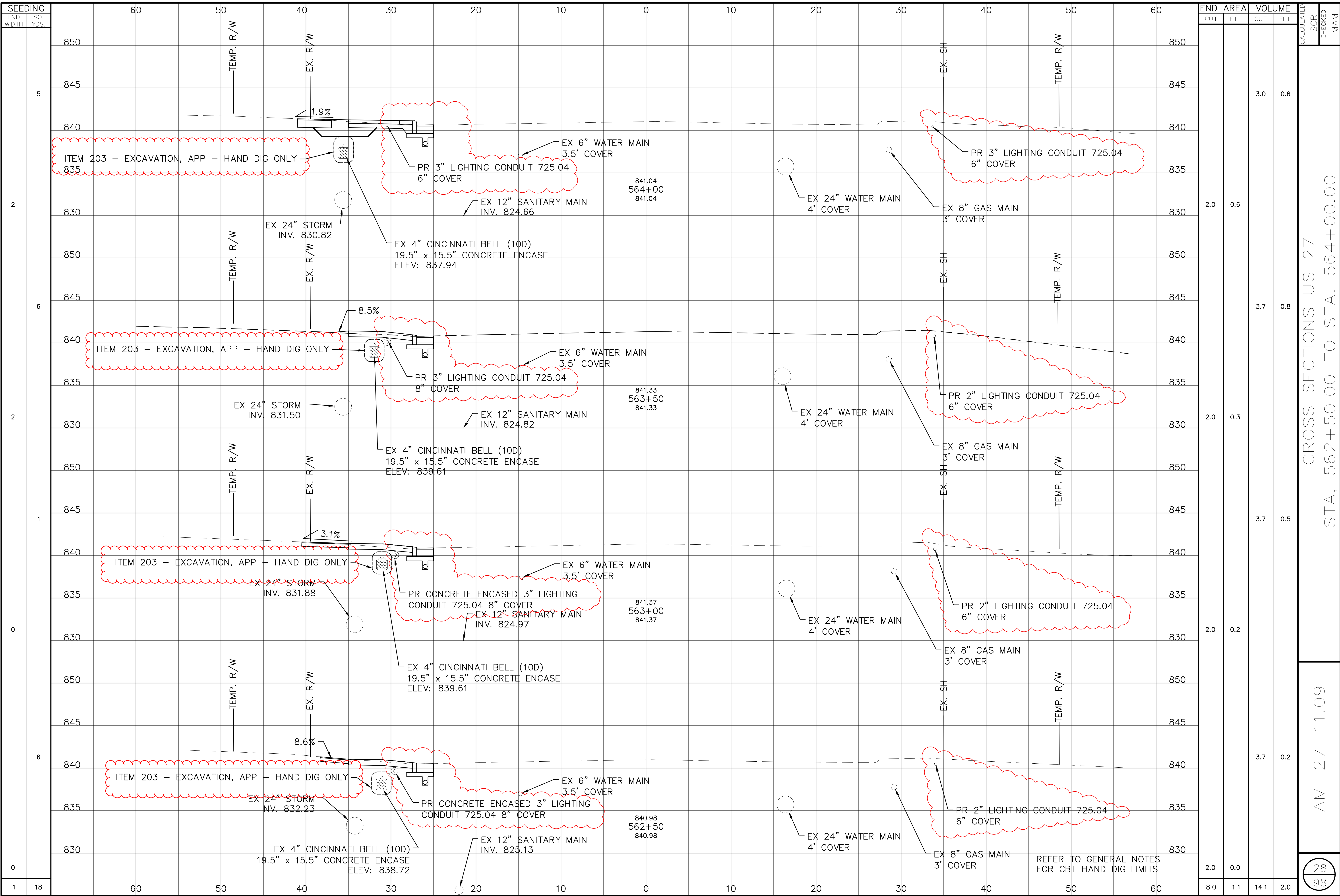
CROSS SECTIONS US 27
STA. 560+50.00 TO STA. 562+00.00

HAM-27-11.09

27
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REFER TO GENERAL NOTES FOR CBT HAND DIG LIMITS

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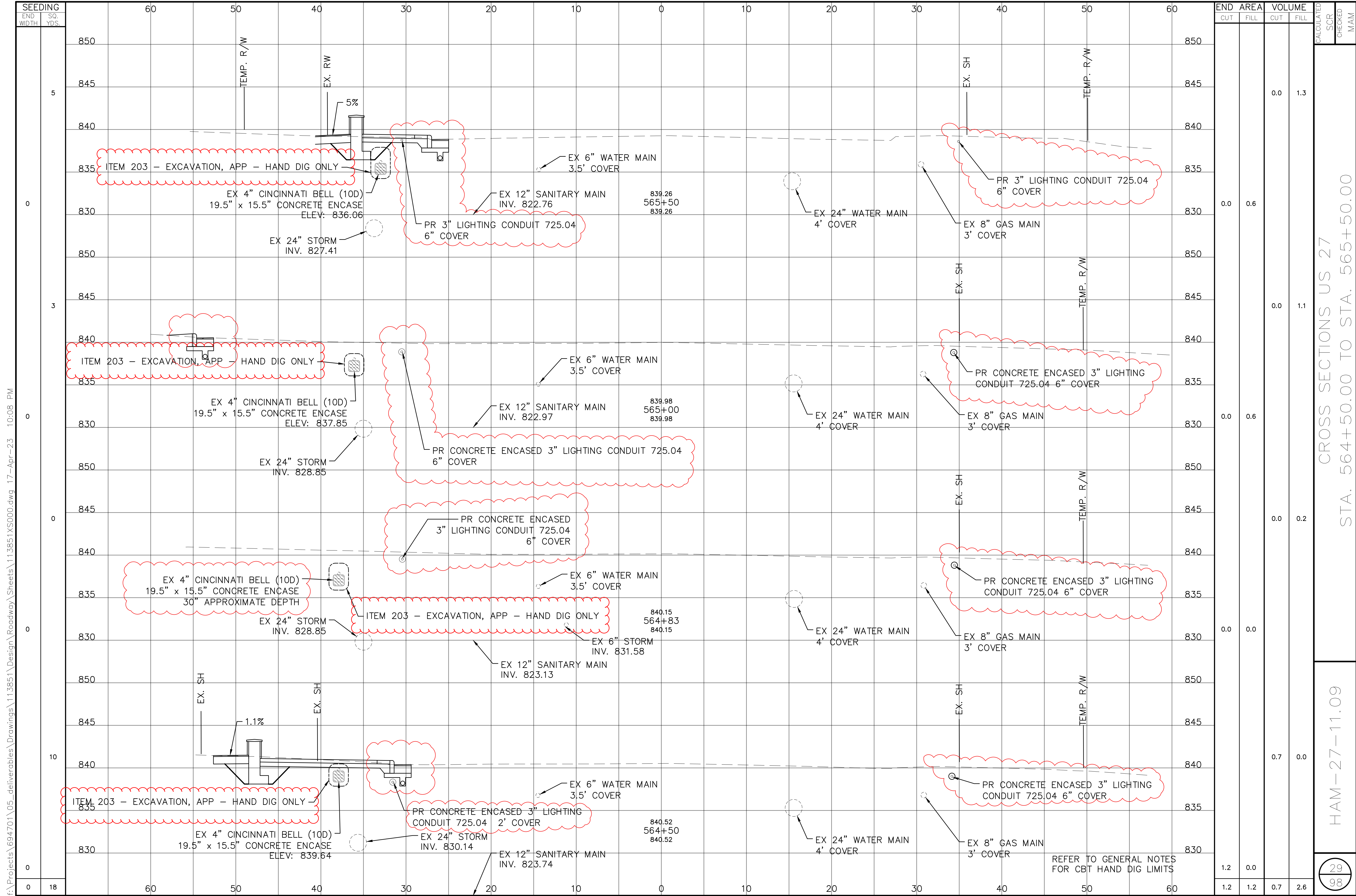
END STA.	AREA		VOLUME		CALCULATED	SCR	CHECKED	MAM
	CUT	FILL	CUT	FILL				
564+00			3.0	0.6				
563+50			3.7	0.8				
563+00			2.0	0.3				
562+50			3.7	0.5				
562+00			2.0	0.2				
561+50			3.7	0.2				
561+00	2.0	0.0	8.0	1.1	14.1	2.0		

CROSS SECTIONS US 27
STA, 562+50.00 TO STA. 564+00.00

HAM-27-11.09

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REFER TO GENERAL NOTES FOR CBT HAND DIG LIMITS



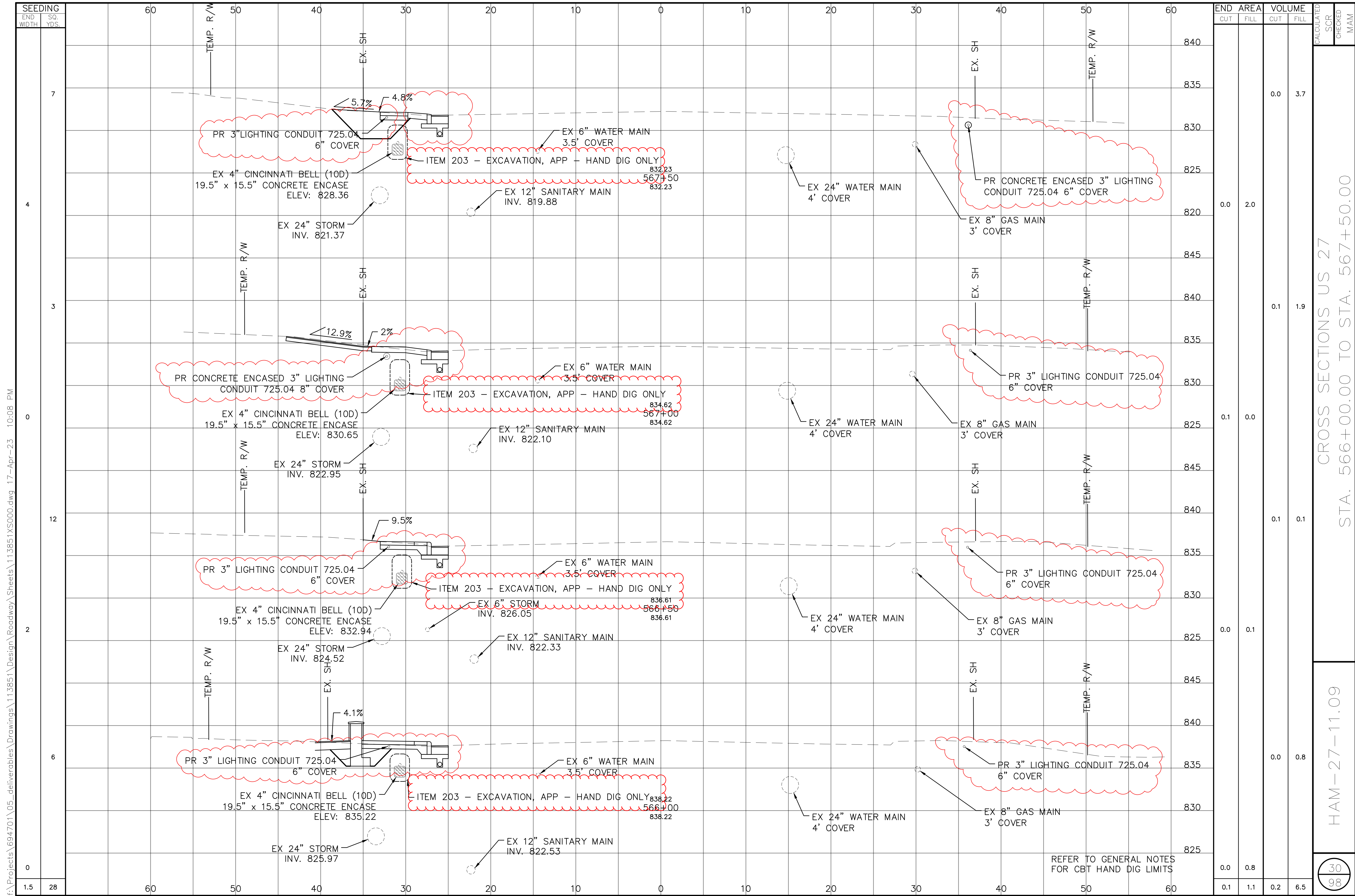
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CROSS SECTIONS US 27
STA. 564+50.00 TO STA. 565+50.00

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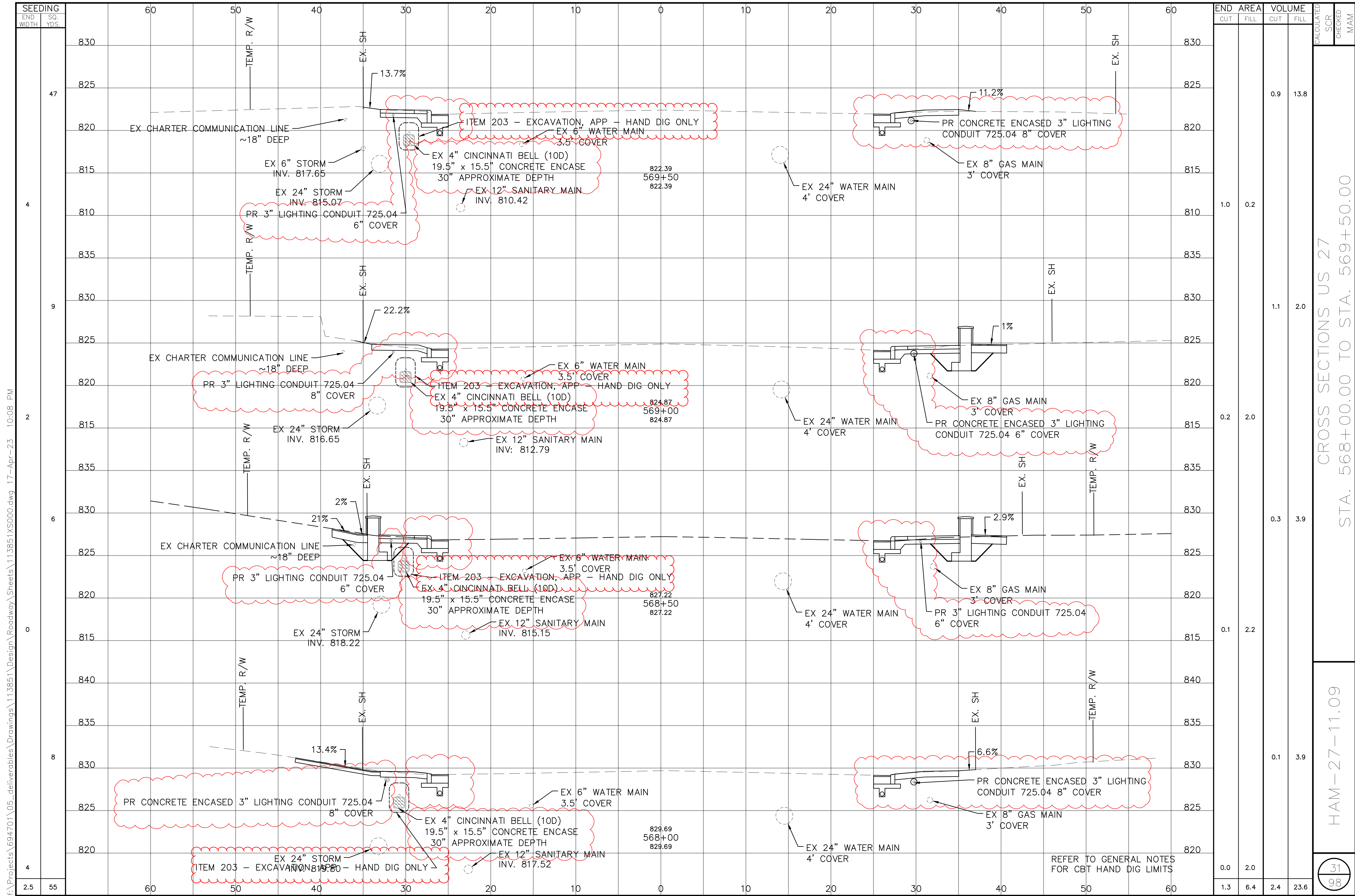
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REFER TO GENERAL NOTES FOR CBT HAND DIG LIMITS



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CROSS SECTIONS US 27
STA. 566+00.00 TO STA. 567+50.00
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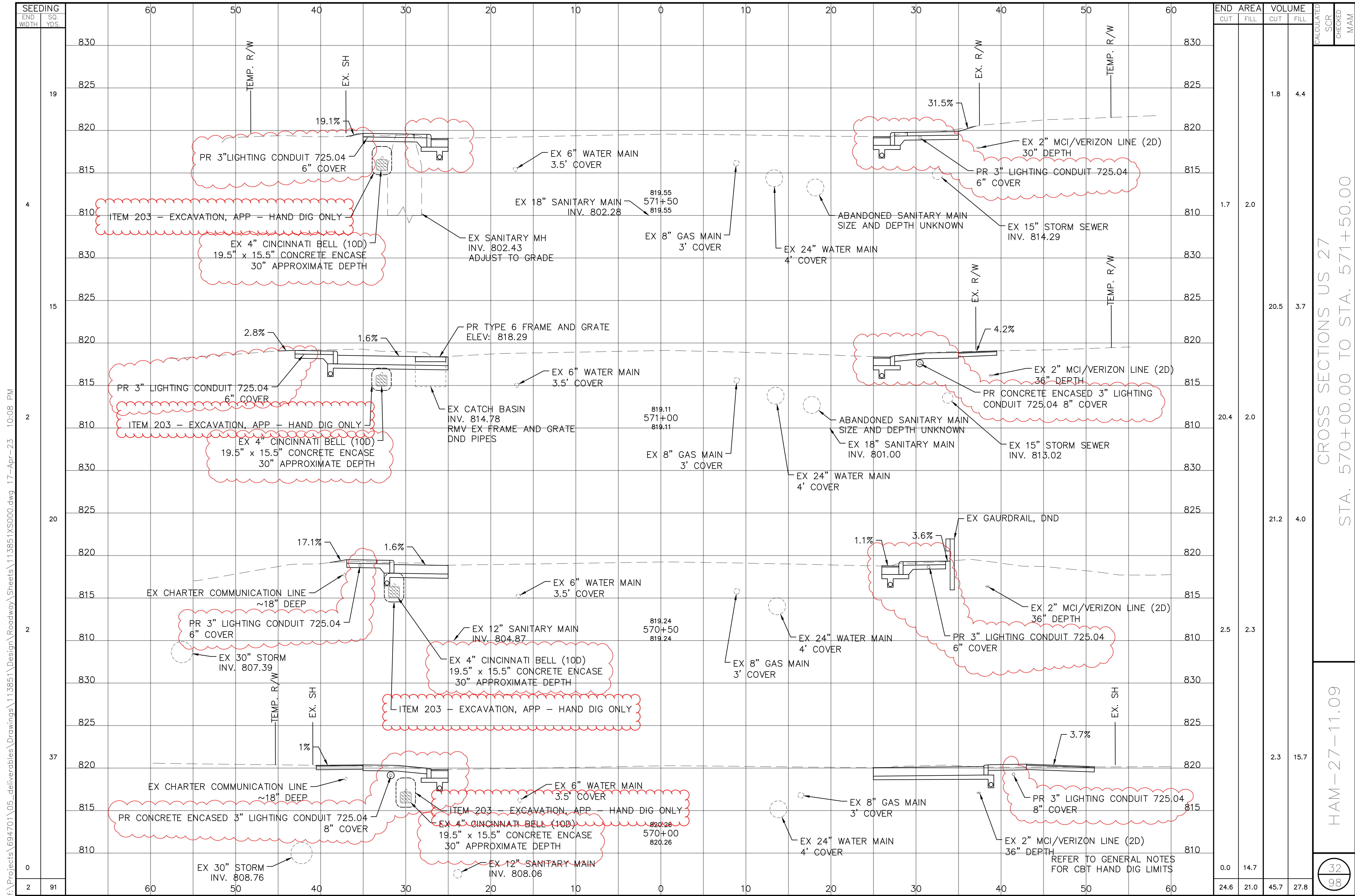


CROSS SECTIONS US 27
STA. 568+00.00 TO STA. 569+50.00

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END STA.	END AREA		VOLUME		CALCULATED	CHECKED	MAM
	CUT	FILL	CUT	FILL			
830							
825							
820							
815							
810	1.7	2.0	1.8	4.4			
830							
825							
820							
815							
810	20.4	2.0	20.5	3.7			
830							
825							
820							
815							
810	2.5	2.3	2.0	4.0			
830							
825							
820							
815							
810	2.3	15.7	2.3	15.7			
830							
825							
820							
815							
810	0.0	14.7	0.0	14.7			
24.6	21.0	45.7	27.8				

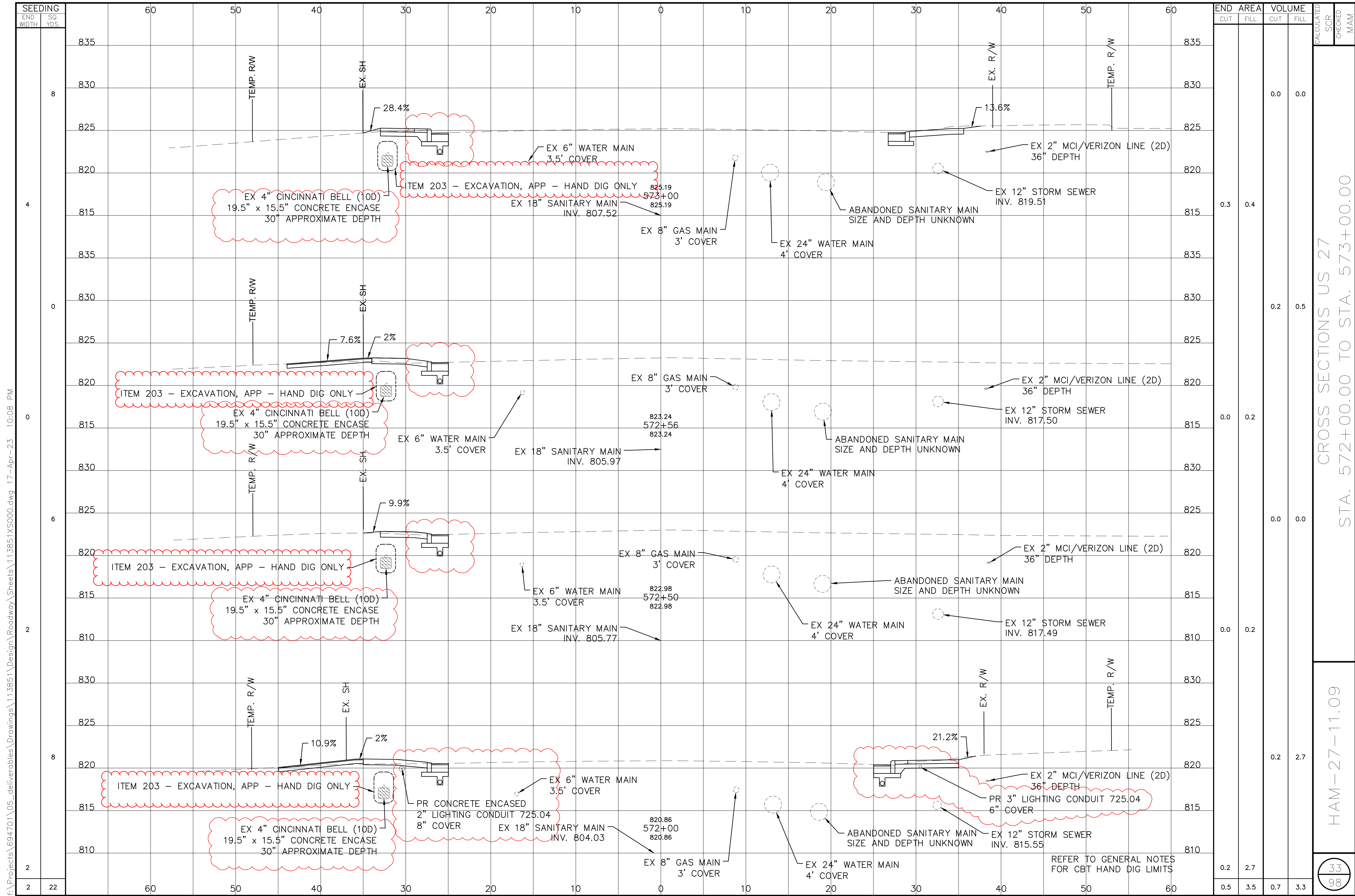
CROSS SECTIONS US 27
 STA. 570+00.00 TO STA. 571+50.00

HAM-27-11.09

32
98

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REFER TO GENERAL NOTES FOR CBT HAND DIG LIMITS



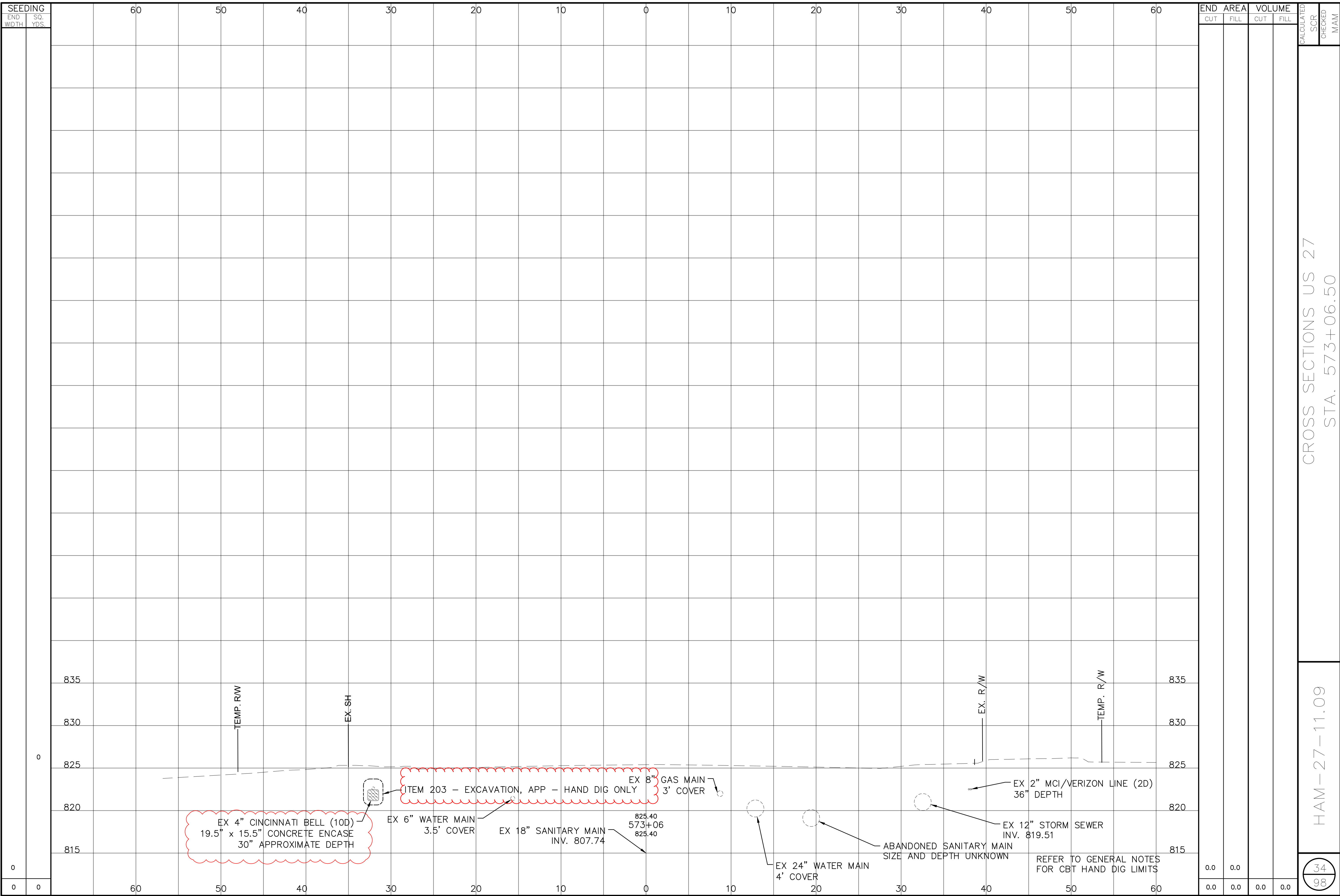
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CROSS SECTIONS US 27
 STA. 572+00.00 TO STA. 573+00.00
 HAM-27-11.09

END STA.	AREA		VOLUME		CALCULATED	SCR	CHECKED	MAM
	CUT	FILL	CUT	FILL				
835								
830								
825								
820								
815	0.3	0.4						
835								
830								
825								
820								
815	0.0	0.2						
830								
825								
820								
815	0.0	0.2						
810	0.0	0.2						
830								
825								
820								
815								
810	0.0	0.2						
830								
825								
820								
815								
810	0.2	2.7						
810	0.2	2.7						
810	0.5	3.5	0.7	3.3				

33
98

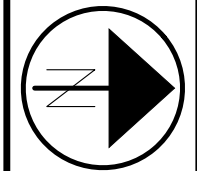
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CROSS SECTIONS US 27
STA. 573+06.50

HAM-27-11.09

34
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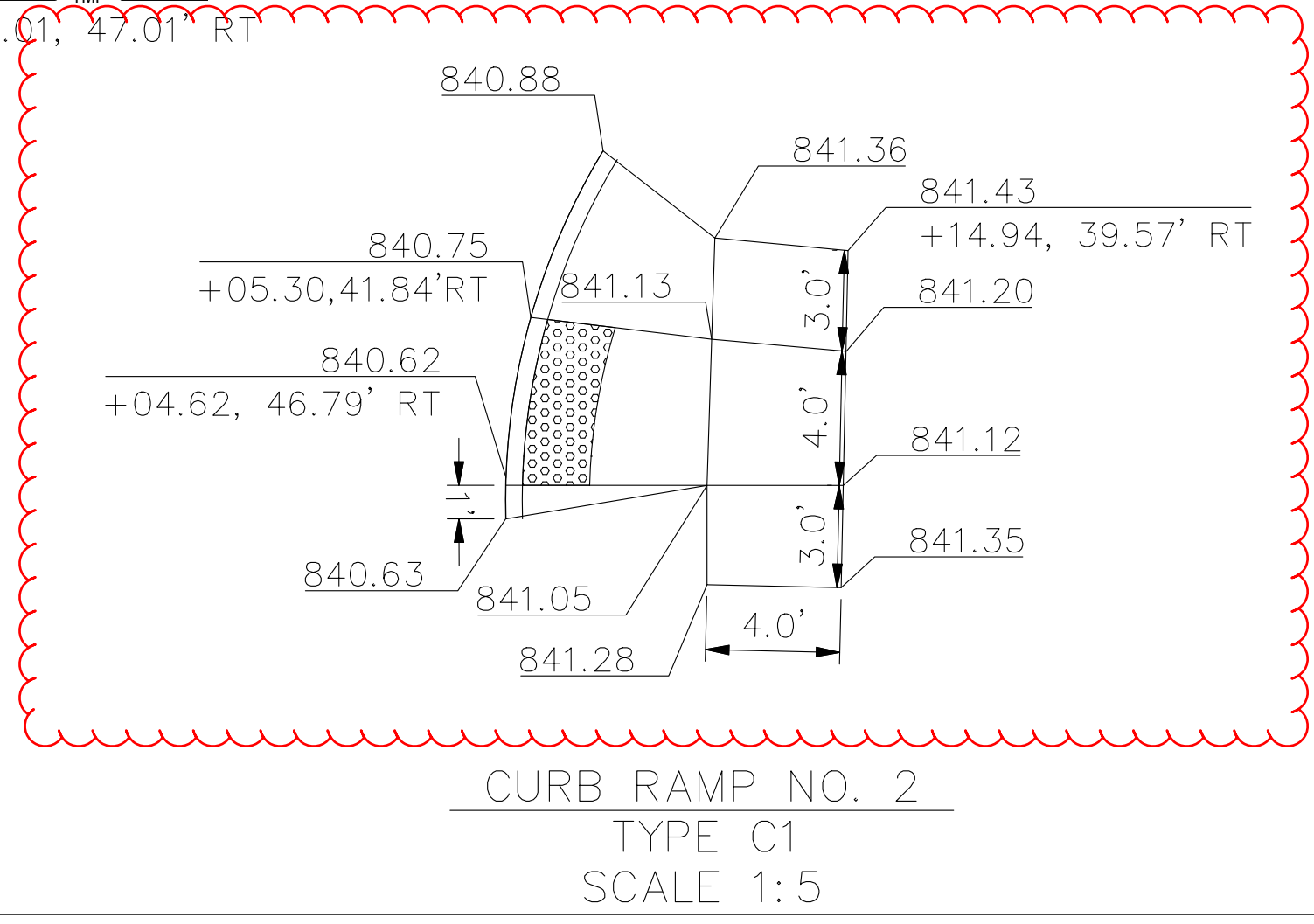
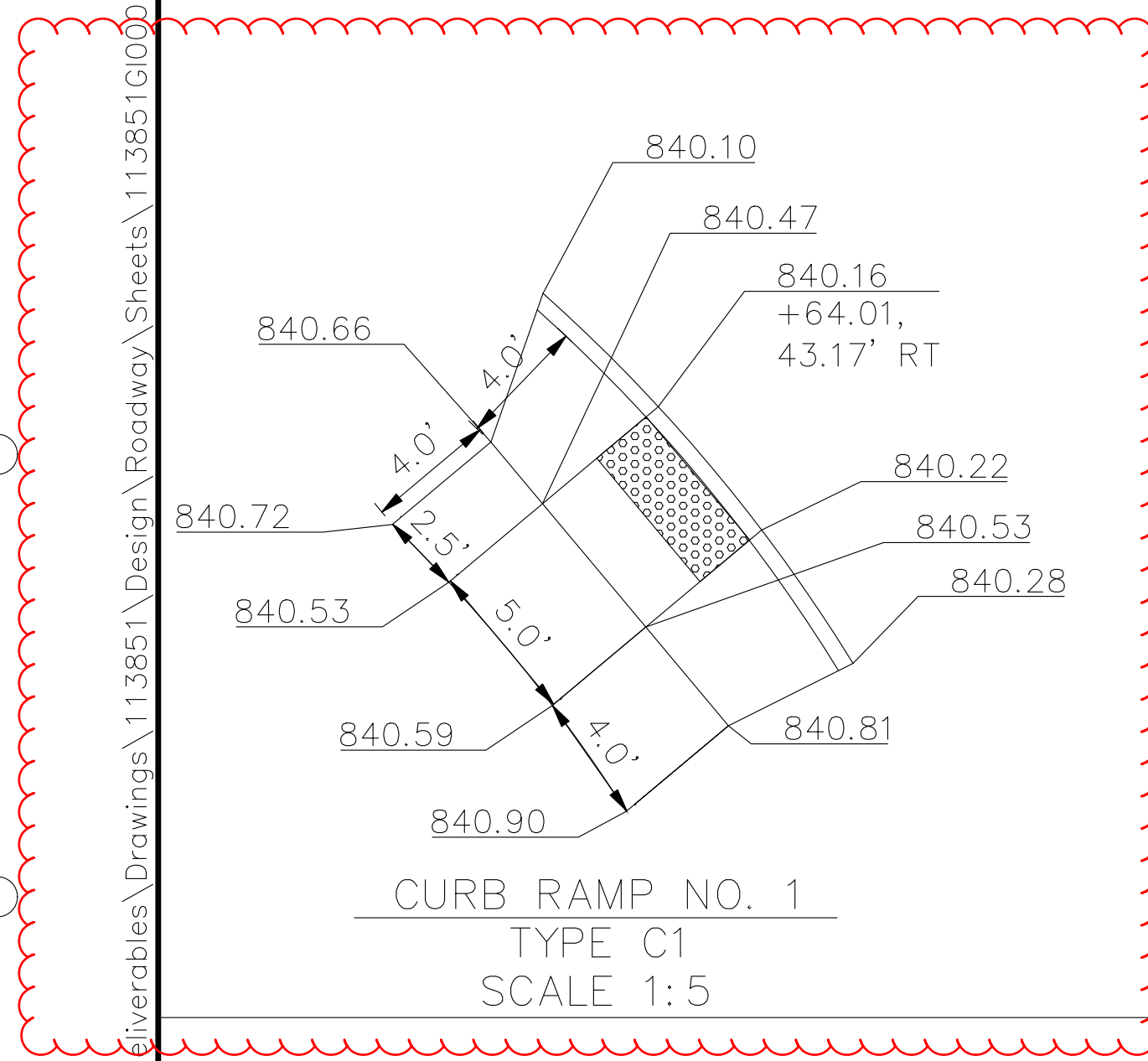
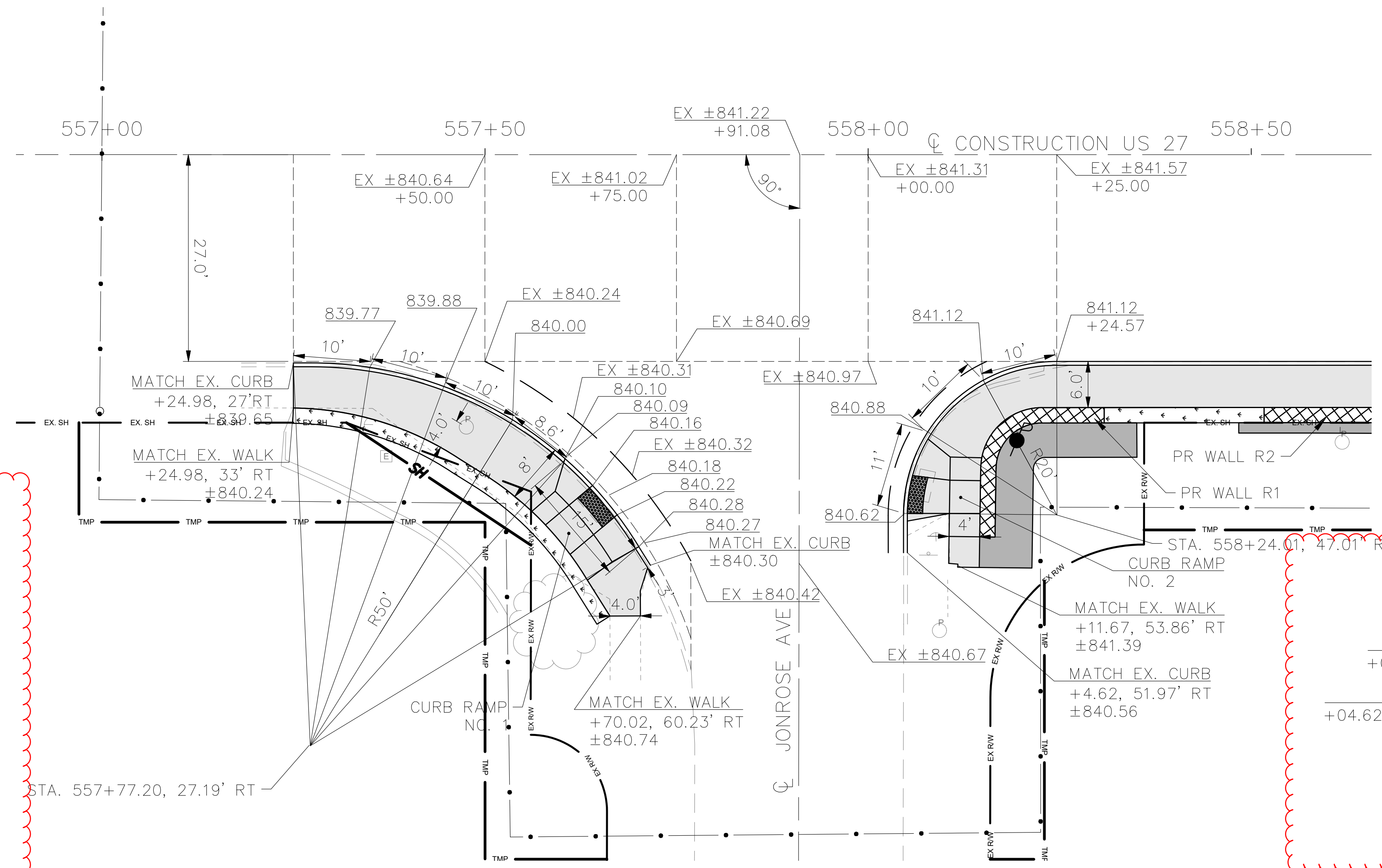
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HORIZONTAL
SCALE IN FEET

CALCULATED
SCR
CHECKED
MAM

INTERSECTION DETAILS
U.S. 27 / JONROSE AVE

HAM-27-11.09

35
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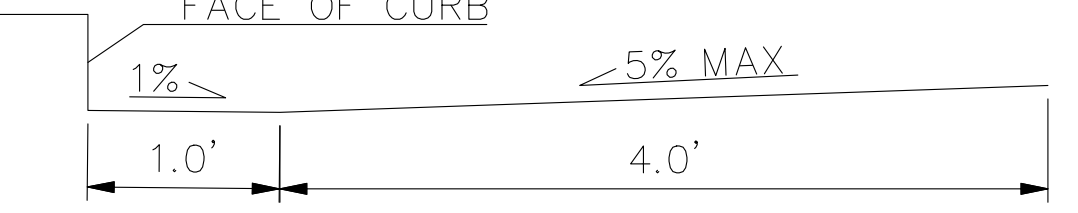


LEGEND

- CONSTRUCTION LIMITS
- XXXXXX SEAT WALL
- PROPOSED SIDEWALK
- DRIVEWAY AND PARKING LOT REPAIR LIMITS
- PROPOSED SAWCUT

NOTES

1. ADA RAMPS TO BE CONSTRUCTED PER ODOT SCD BP-7.1.
2. SOUTHEAST CORNER OF US 27 AND JONROSE AVE TO BE SAW CUT 5' FROM FACE OF CURB

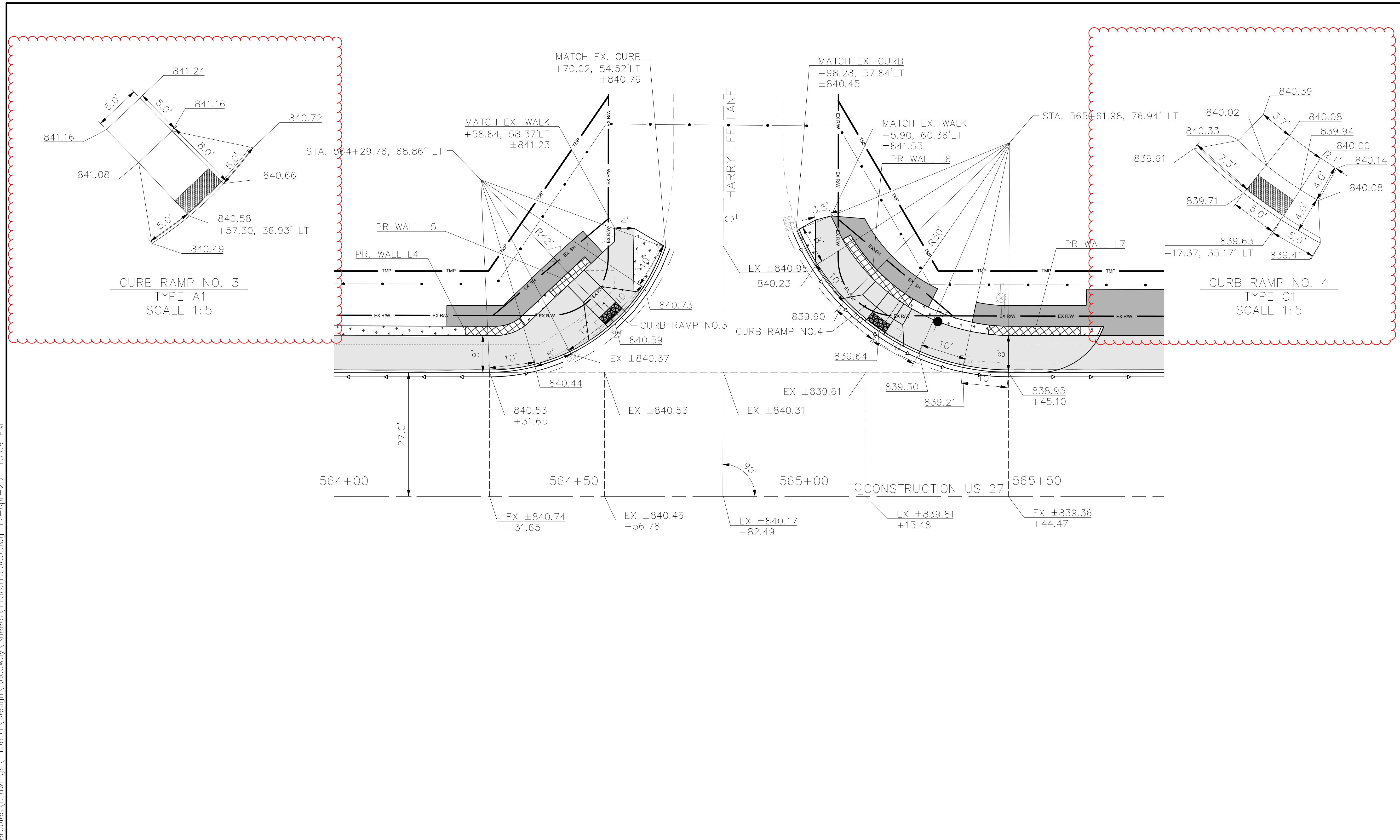


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CALCULATED
SCCR
CHECKED
MAM

0 5 10
HORIZONTAL
SCALE IN FEET



CURB RAMP NO. 3
TYPE A1
SCALE 1:5

CURB RAMP NO. 4
TYPE C1
SCALE 1:5

LEGEND

— • —	CONSTRUCTION LIMITS
XXXXXX	SEAT WALL
▨	PROPOSED SIDEWALK
▩	DRIVEWAY AND PARKING LOT REPAIR LIMITS
— —	PROPOSED SAWCUT

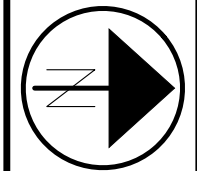
NOTES

1. ADA RAMPS TO BE CONSTRUCTED PER ODOT SCD BP-7.1.

INTERSECTION DETAILS
U.S. 27 / HARRY LEE LANE

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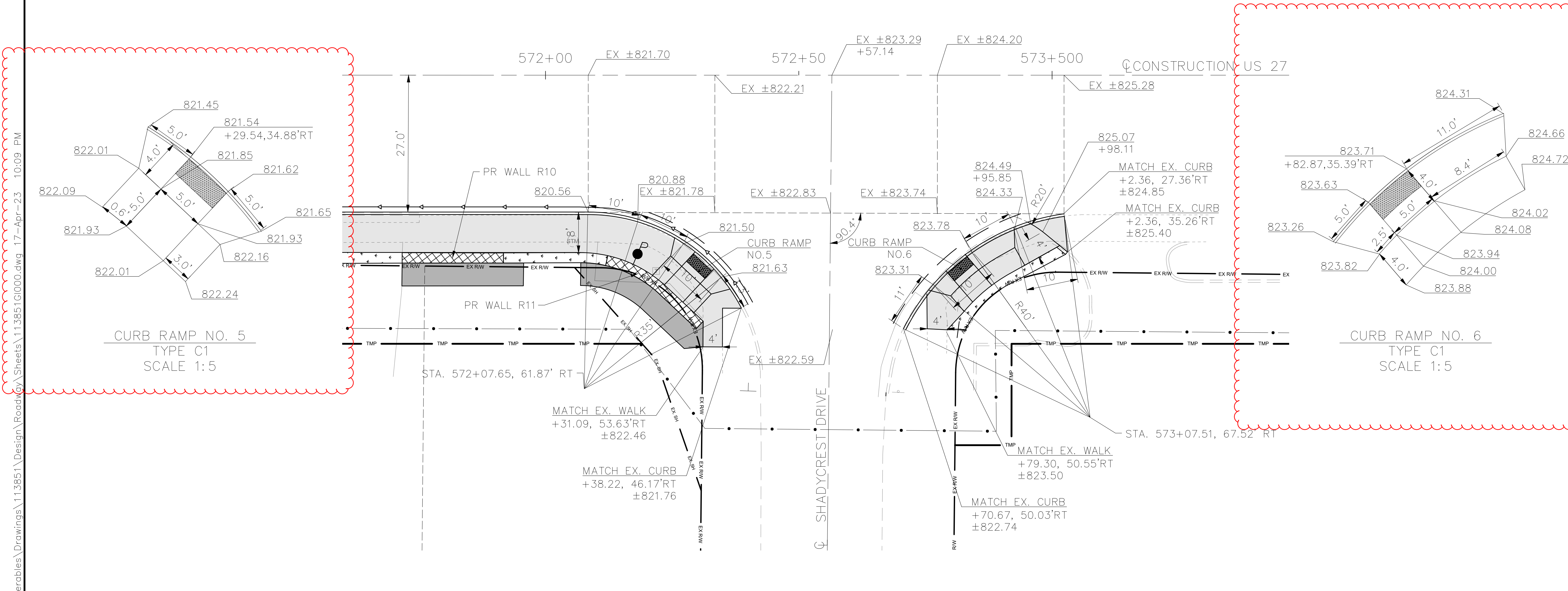
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INTERSECTION DETAILS
U.S.27 / SHADYCREST DRIVE

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37
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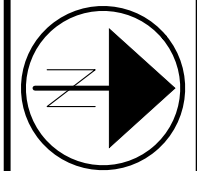


LEGEND

— • —	CONSTRUCTION LIMITS
XXXXXX	SEAT WALL
▨	PROPOSED SIDEWALK
▩	DRIVEWAY AND PARKING LOT REPAIR LIMITS
— — —	PROPOSED SAWCUT

NOTES

1. ADA RAMPS TO BE CONSTRUCTED PER ODOT SCD BP-7.1.



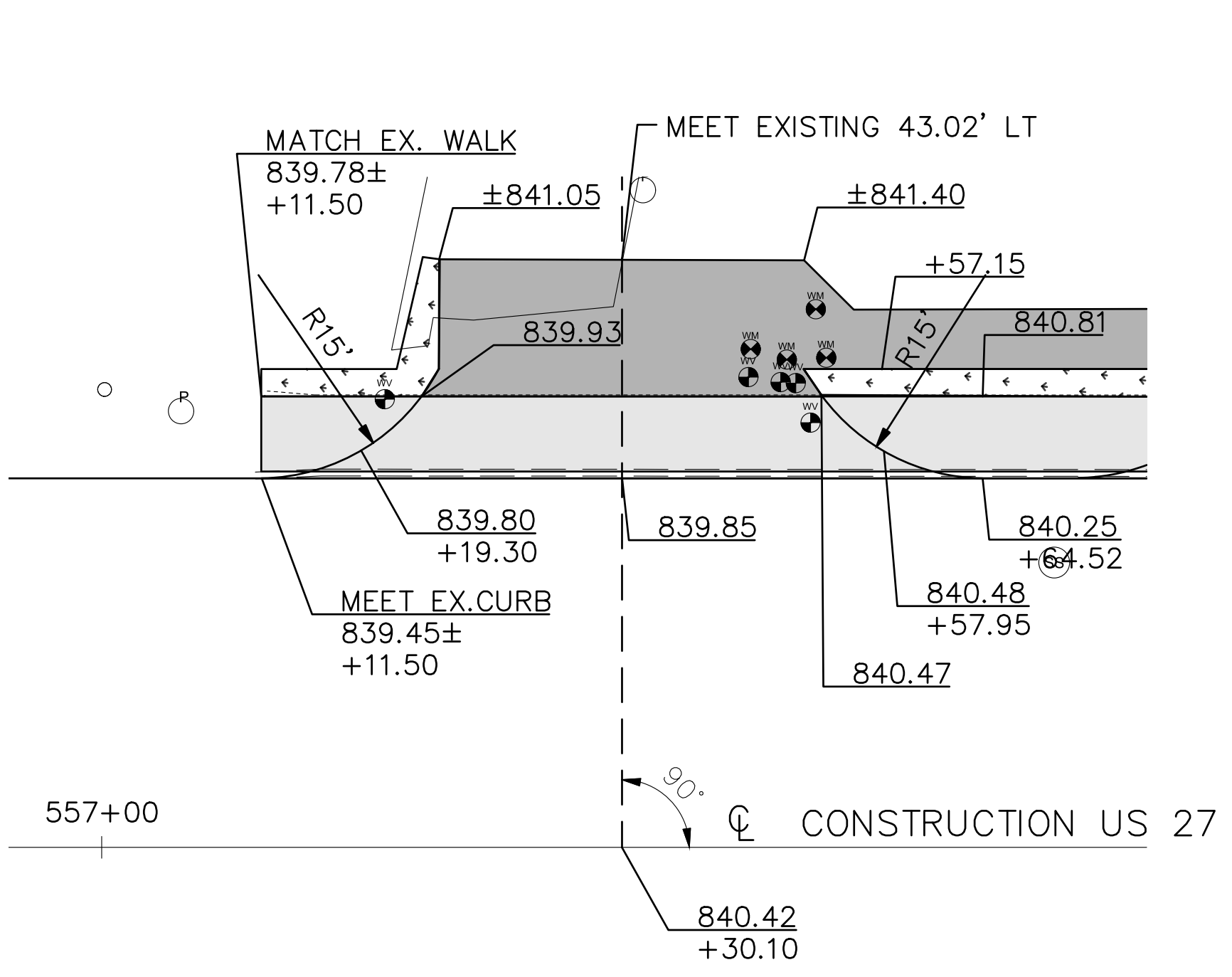
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HORIZONTAL
SCALE IN FEET

CALCULATED
SCR
CHECKED
MAM

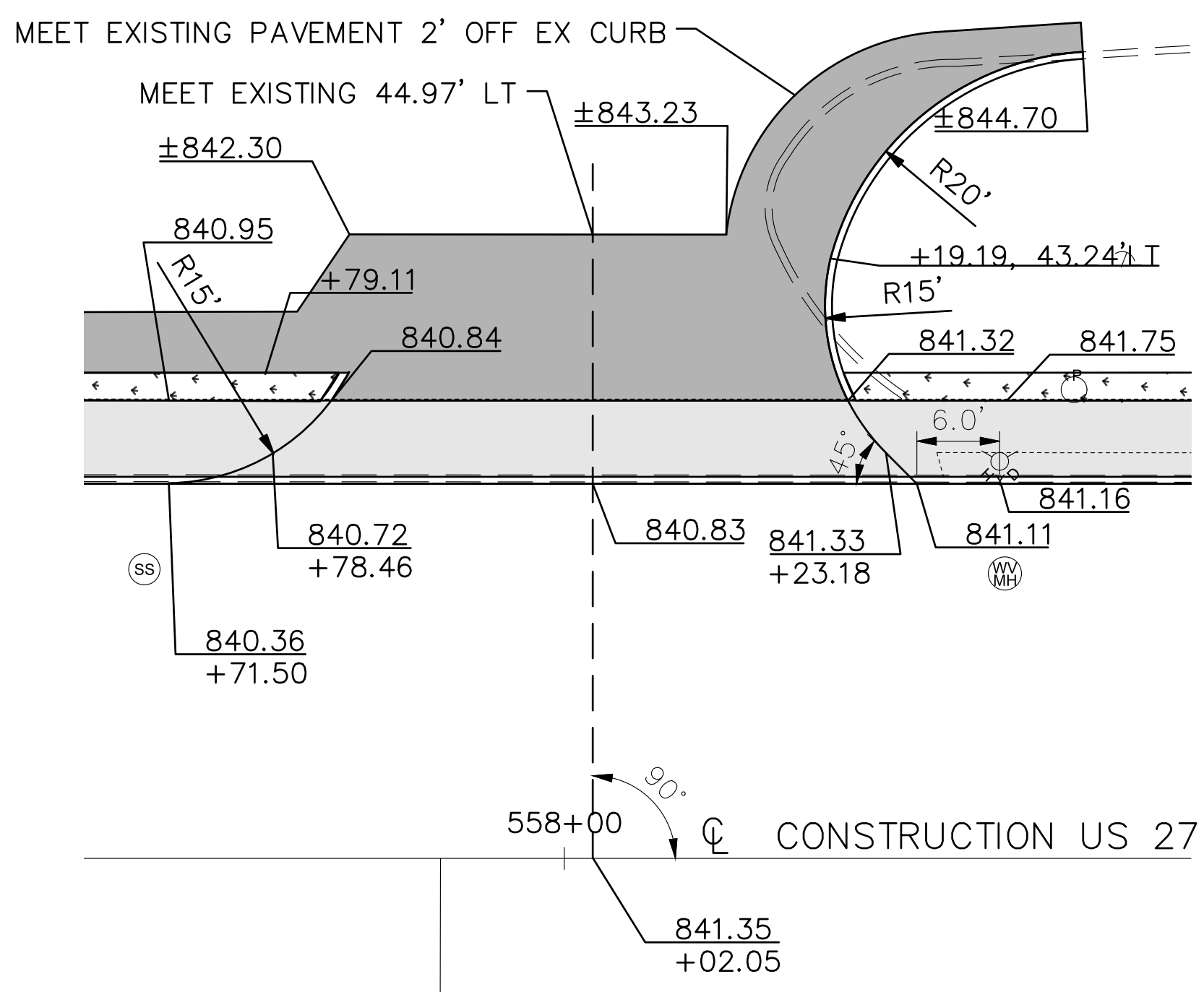
DRIVEWAY DETAILS

HAM-27-11.09

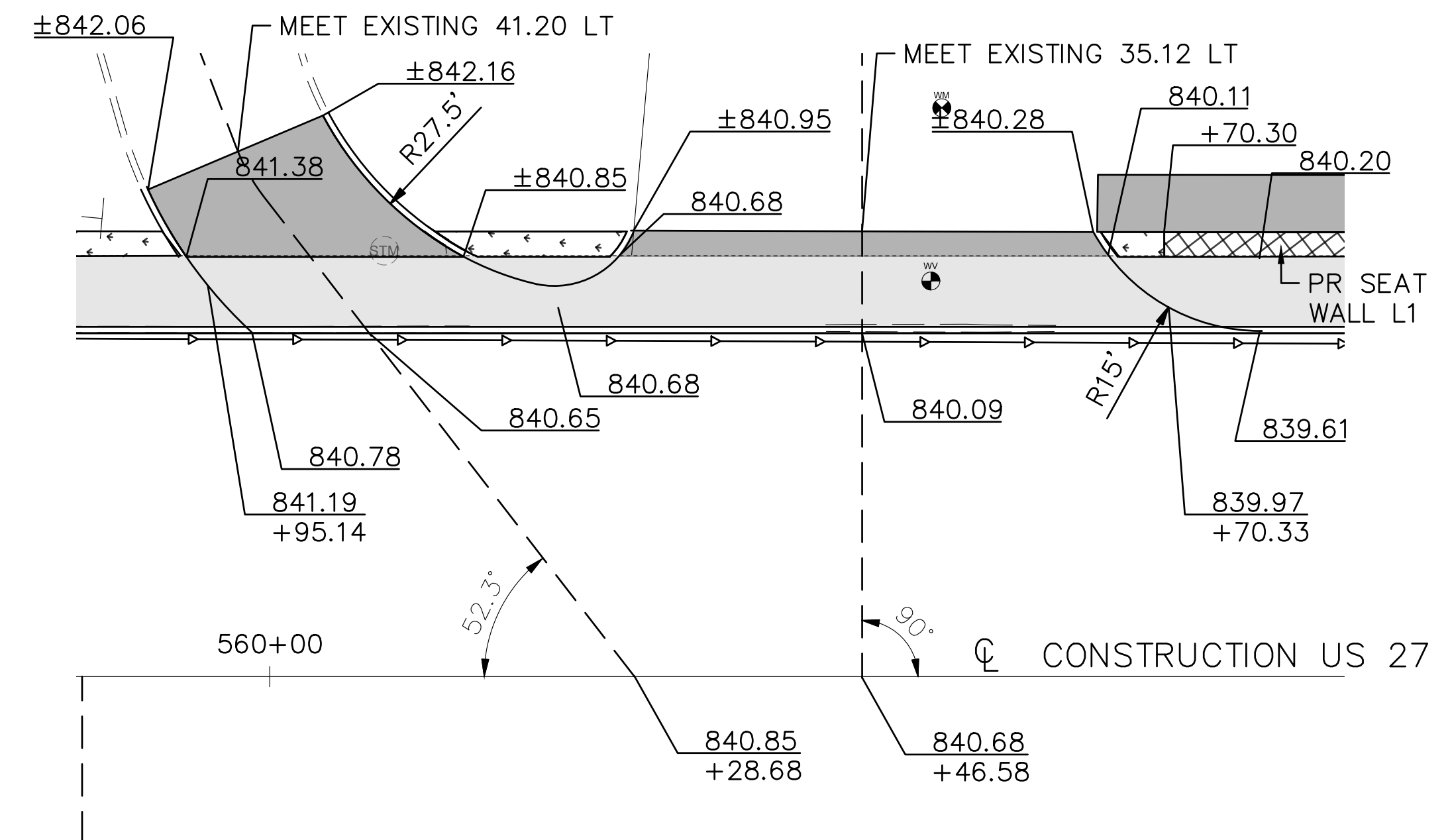
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DRIVEWAY DETAIL STA. 557+30.10 LT

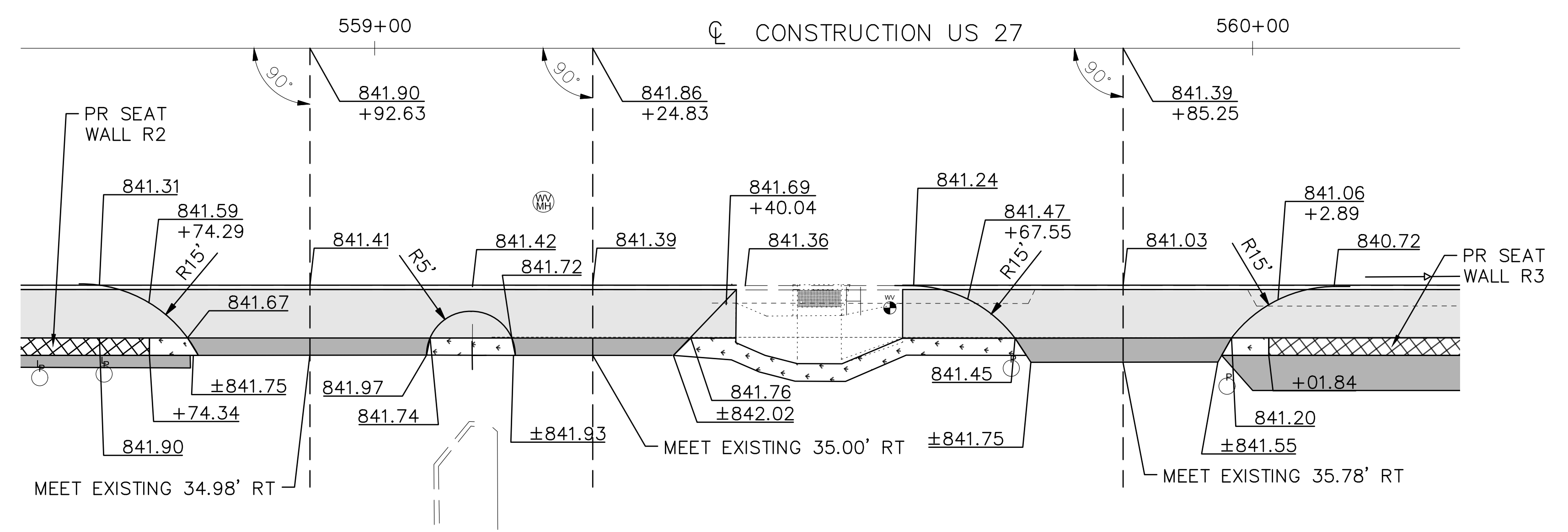


DRIVEWAY DETAIL STA. 558+02.05 LT



DRIVEWAY DETAIL STA. 560+28.68 LT

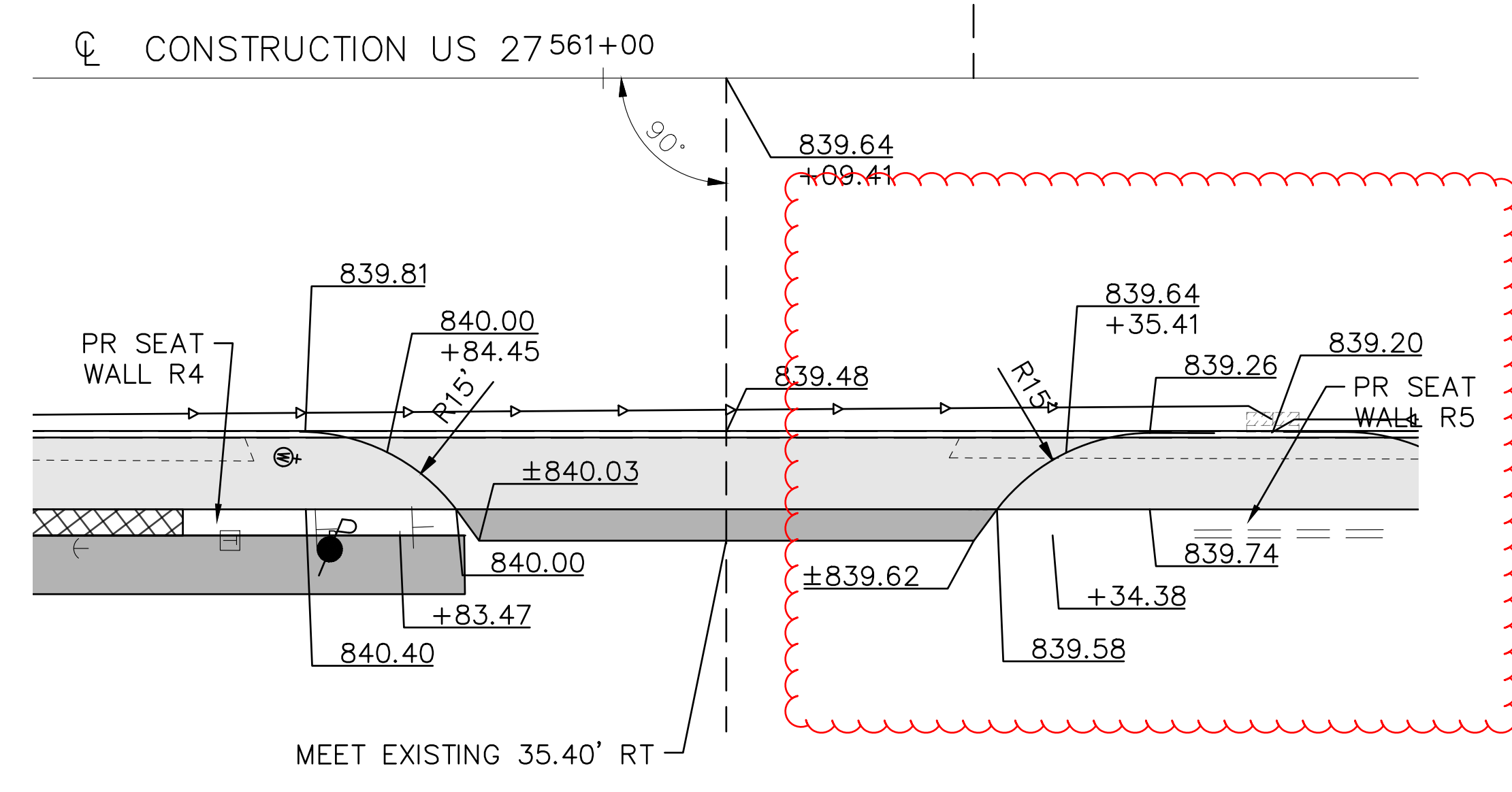
DRIVEWAY DETAIL STA. 560+46.58 LT



DRIVEWAY DETAIL STA. 558+92.63 RT

DRIVEWAY DETAIL STA. 559+24.83 RT

DRIVEWAY DETAIL STA. 559+85.25 RT



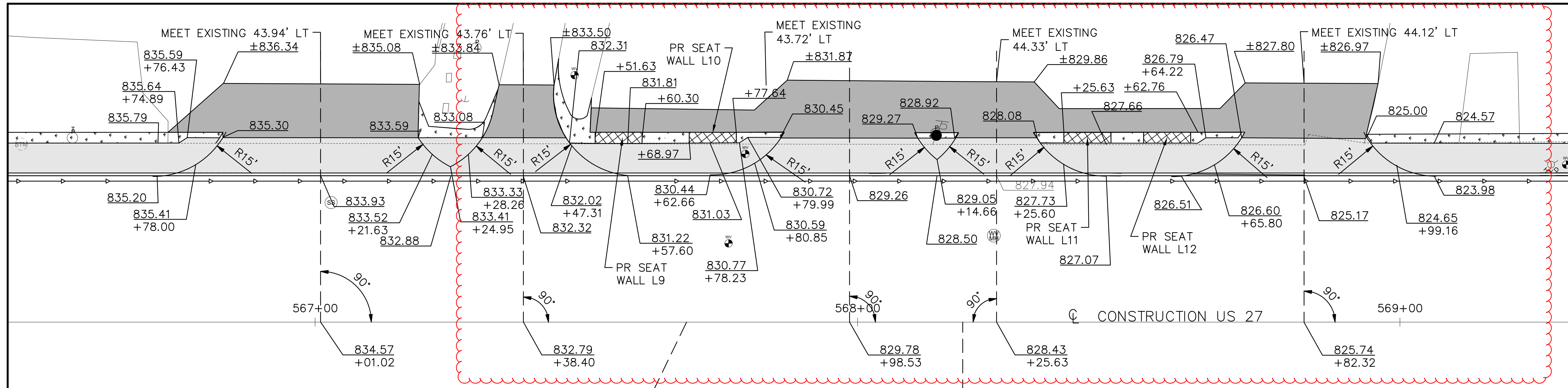
DRIVEWAY DETAIL STA. 561+09.41 RT

LEGEND

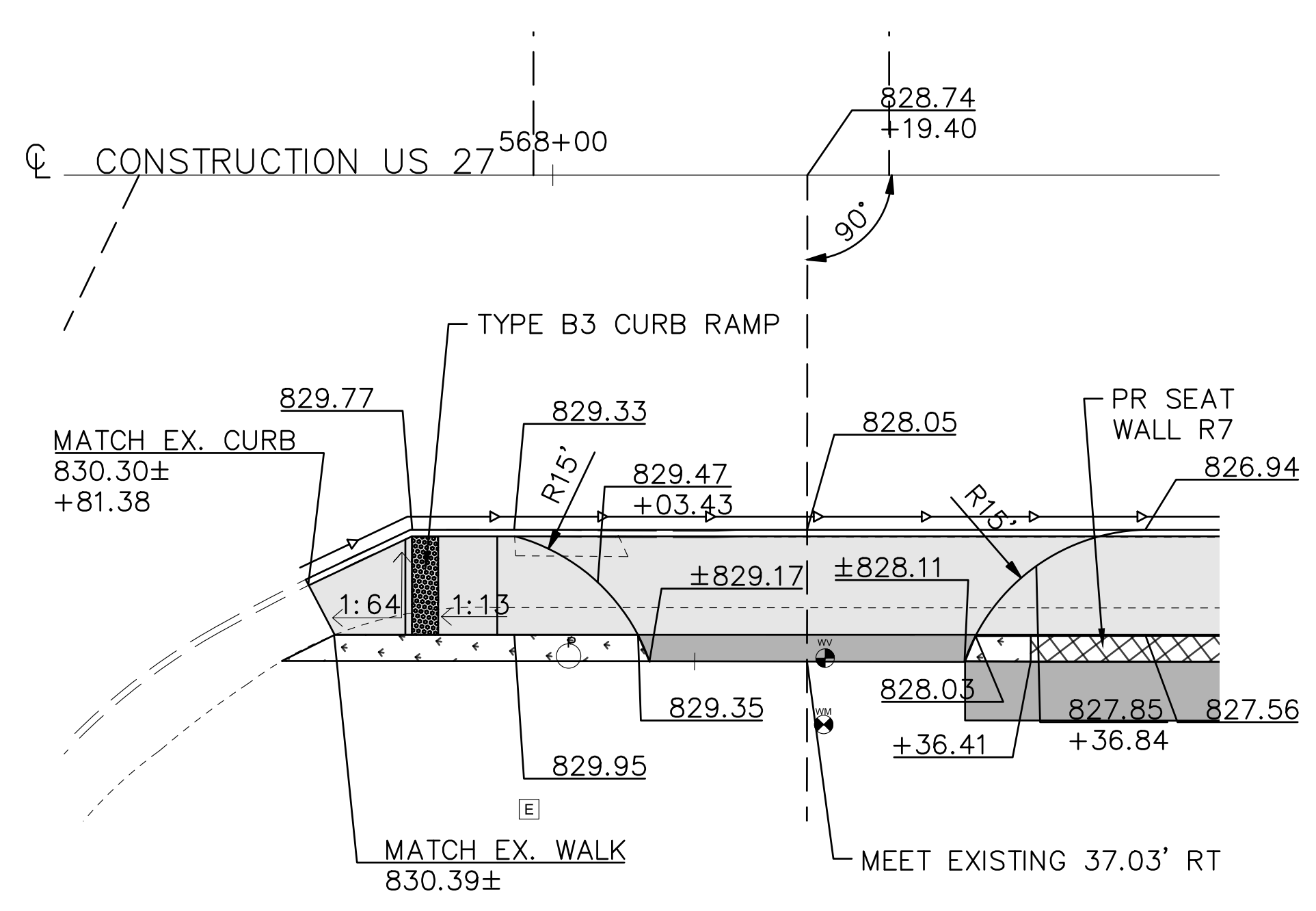
- SAWCUT AND PAVEMENT REPAIR
- SEAT WALL
- PROPOSED SIDEWALK
- DRIVEWAY AND PARKING LOT REPAIR LIMITS

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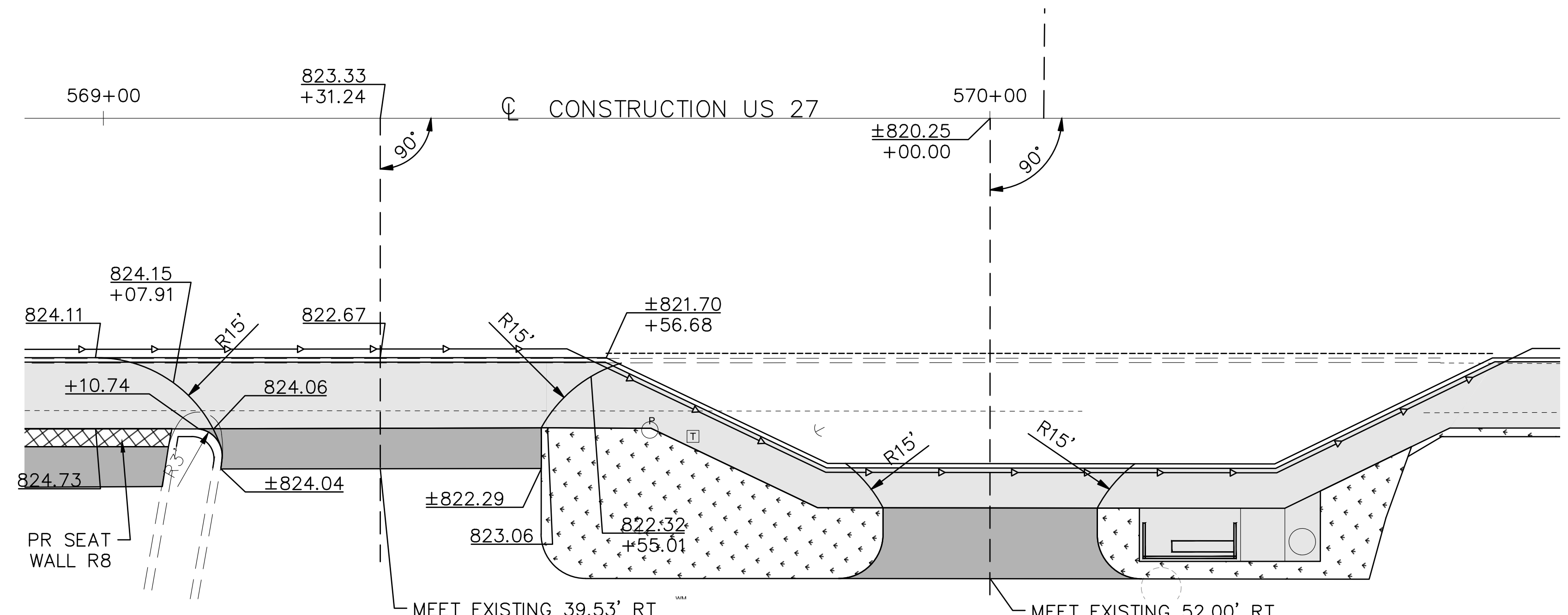
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DRIVEWAY DETAIL STA. 567+01.02 LT DRIVEWAY DETAIL STA. 567+38.40 LT DRIVEWAY DETAIL STA. 567+98.53 LT DRIVEWAY DETAIL STA. 568+25.63 LT DRIVEWAY DETAIL STA. 568+82.32 LT



DRIVEWAY DETAIL STA. 568+19.40 RT



DRIVEWAY DETAIL STA. 569+31.24 RT DRIVEWAY DETAIL STA. 570+00.00 RT
REFER TO BUS STOP DETAIL FOR DRIVEWAY APRON ELEVATIONS

LEGEND

- SAWCUT AND PAVEMENT REPAIR
- SEAT WALL
- PROPOSED SIDEWALK
- DRIVEWAY AND PARKING LOT REPAIR LIMITS

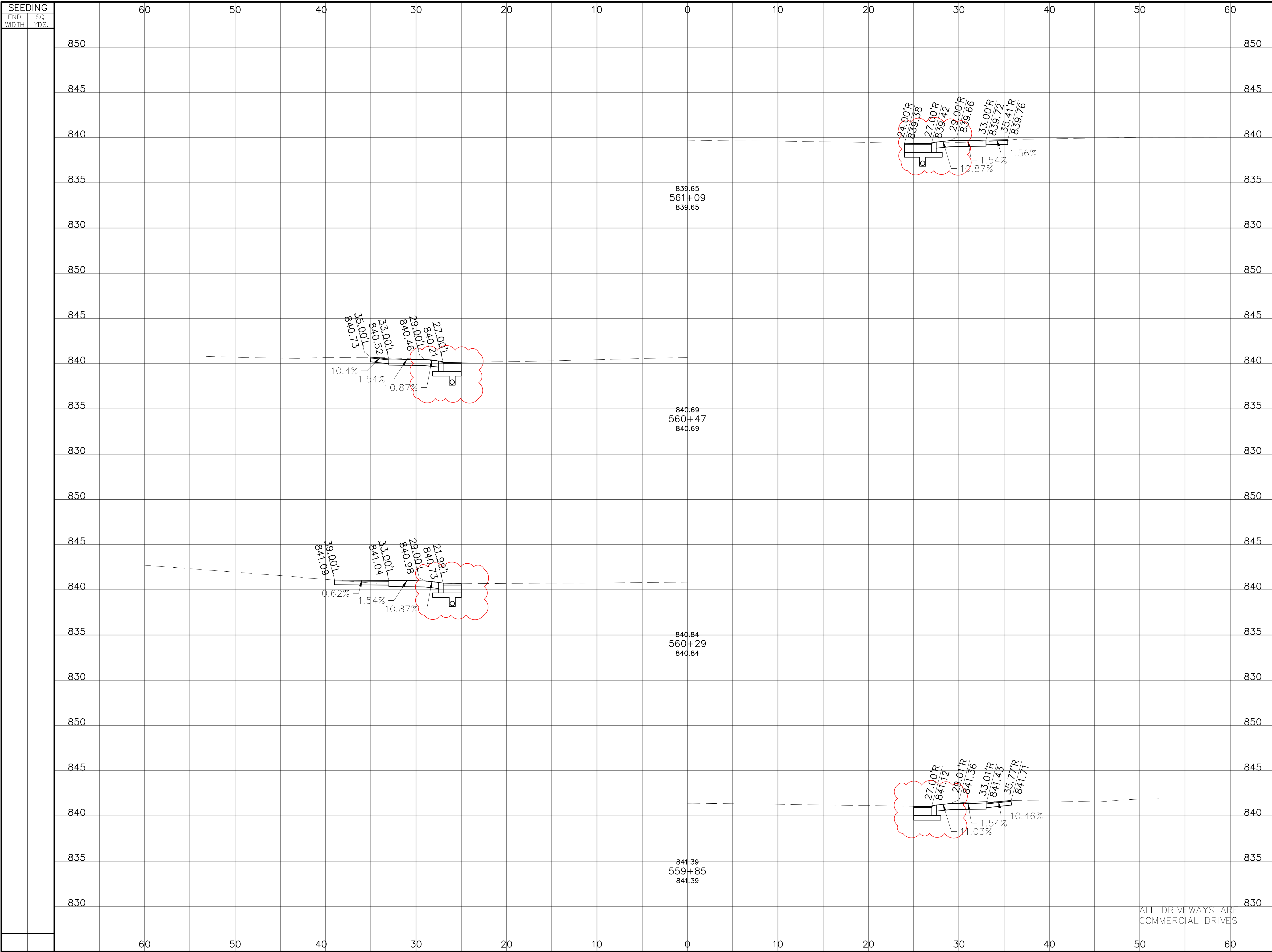
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HORIZONTAL SCALE IN FEET

DRIVEWAY DETAILS

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END STA.	AREA		VOLUME		CALCULATED SCR	CHECKED MAM
	CUT	FILL	CUT	FILL		
850						
845						
840						
835						
830						
850						
845						
840						
835						
830						
850						
845						
840						
835						
830						
850						
845						
840						
835						
830						

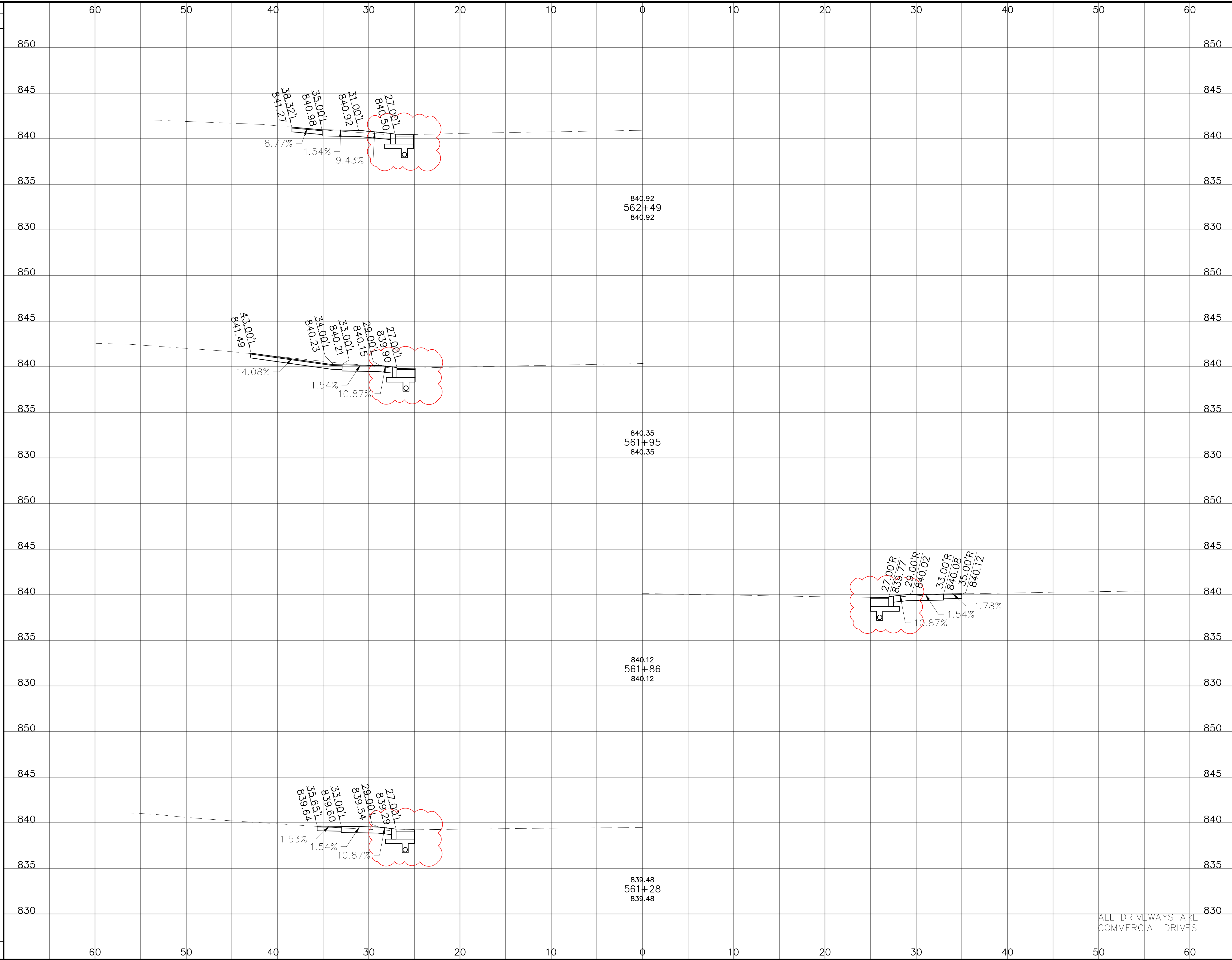
DRIVEWAY PROFILES
STA. 559+85 TO STA. 561+09

HAM-27-11.09

ALL DRIVEWAYS ARE
COMMERCIAL DRIVES

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SEEDING
END SQ.
WIDTH YDS.



END AREA		VOLUME		CALCULATED SCR	CHECKED MAM
CUT	FILL	CUT	FILL		

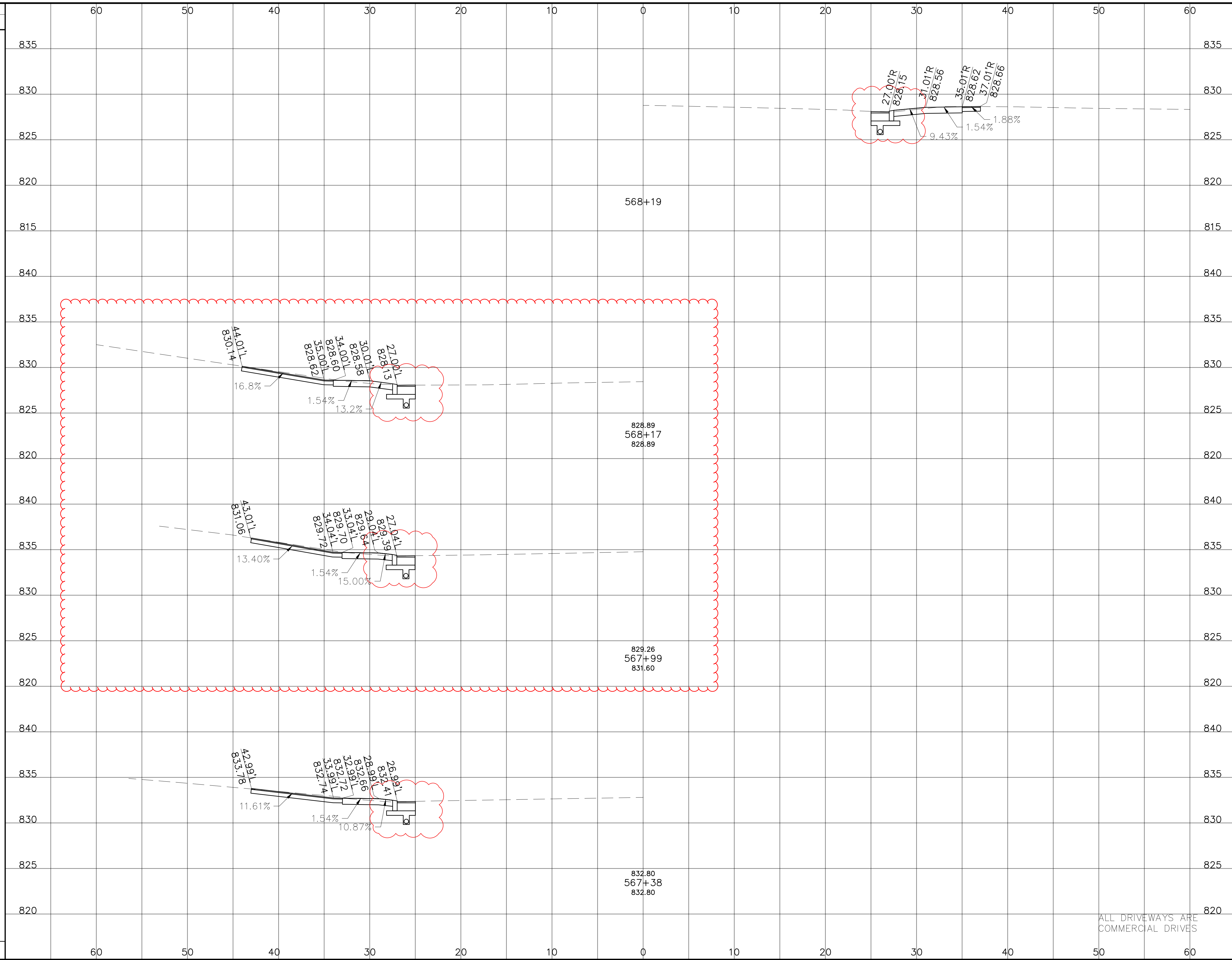
DRIVEWAY PROFILES
STA. 561+28 TO STA. 562+49

HAM-27-11.09

45
98

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SEEDING	
END WIDTH	SQ. YDS.



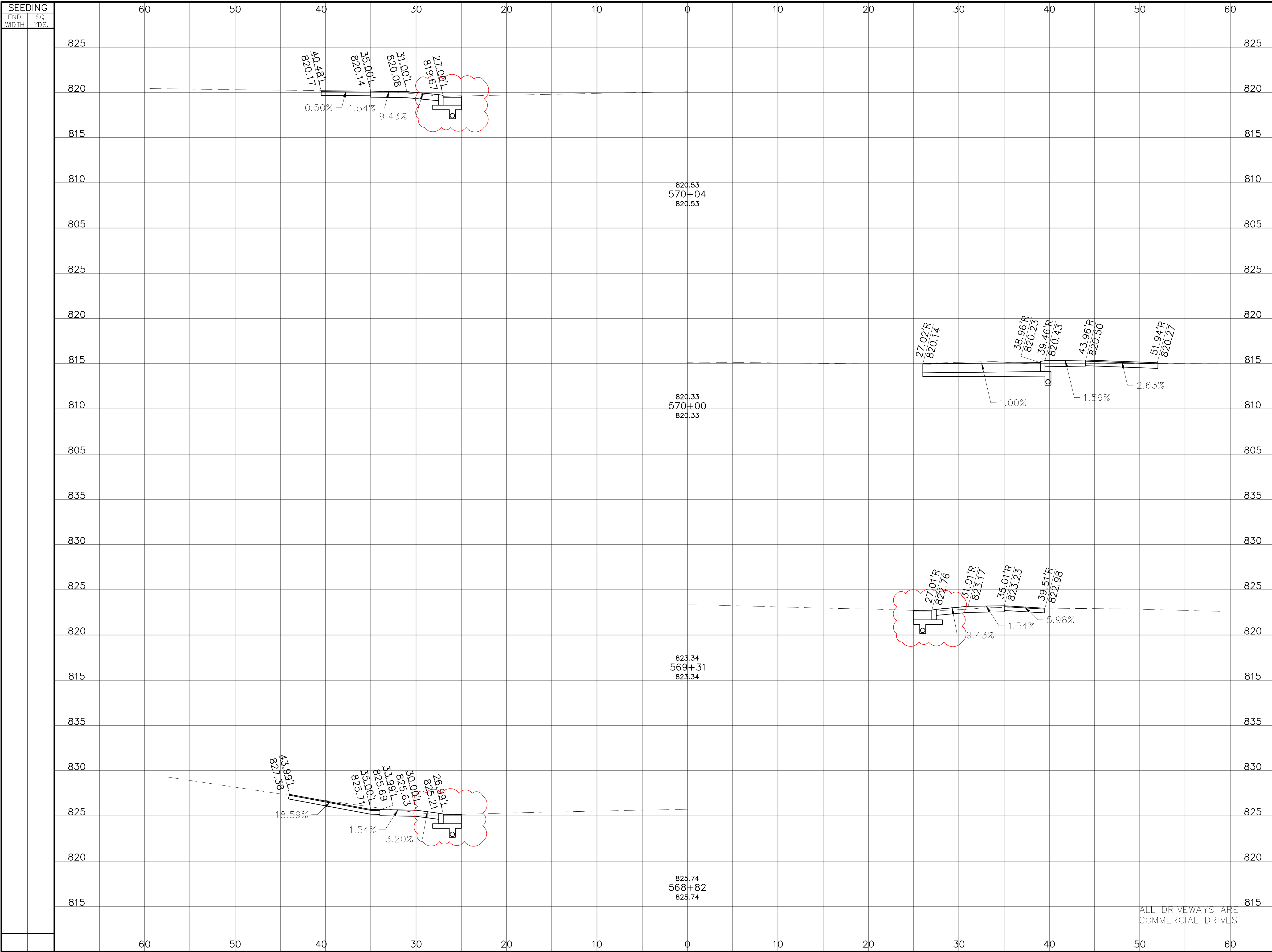
END AREA		VOLUME		CALCULATED	SCR	CHECKED	MAM
CUT	FILL	CUT	FILL				

DRIVEWAY PROFILES
STA. 567+38 TO STA. 568+19

HAM-27-11.09

ALL DRIVEWAYS ARE
COMMERCIAL DRIVES

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END AREA	VOLUME		CALCULATED	CHECKED	MAM
	CUT	FILL			

DRIVEWAY PROFILES
STA. 568+82 TO STA. 570+04

HAM-27-11.09

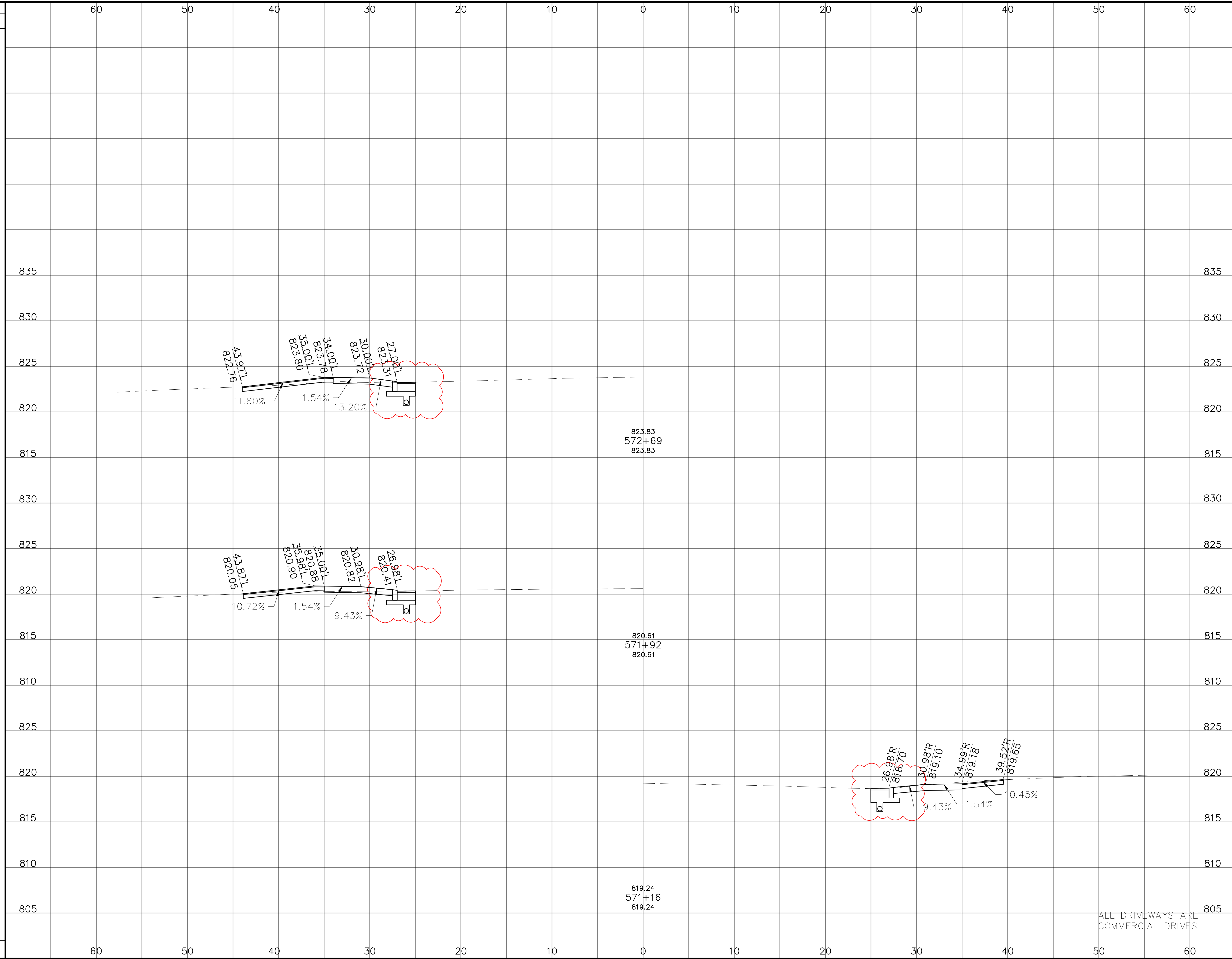
48
98

ALL DRIVEWAYS ARE COMMERCIAL DRIVES

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SEEDING
END SQ.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED SCR
CHECKED MAM



ALL DRIVEWAYS ARE
COMMERCIAL DRIVES

DRIVEWAY PROFILES
STA. 571+16 TO STA. 572+69

HAM-27-11.09

49
98

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SHEET NUM.										PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
										53	1/MPO/28	EXT	TOTAL				
										27.5	27.5	630	03100	27.5	FT	TRAFFIC CONTROL GROUND MOUNTED SUPPORT, NO. 3 POST STREET NAME SIGN SUPPORT, NO. 3 POST REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
										11	11	630	08520	11	FT		
										5	5	630	85100	5	EACH		
										0.45	0.45	644	00104	0.45	MILE	EDGE LINE, 6"	
										0.74	0.74	644	00204	0.74	MILE	LANE LINE, 6"	
										0.74	0.74	644	00300	0.74	MILE	CENTER LINE	
										173	173	644	00630	173	FT	CROSSWALK LINE, 24"	
										6	6	644	01300	6	EACH	LANE ARROW	
										2	2	644	01400	2	EACH	WORD ON PAVEMENT, 72"	
										200	200	644	01510	200	FT	DOTTED LINE, 6"	
										8	8	644	20800	8	FT	YIELD LINE	

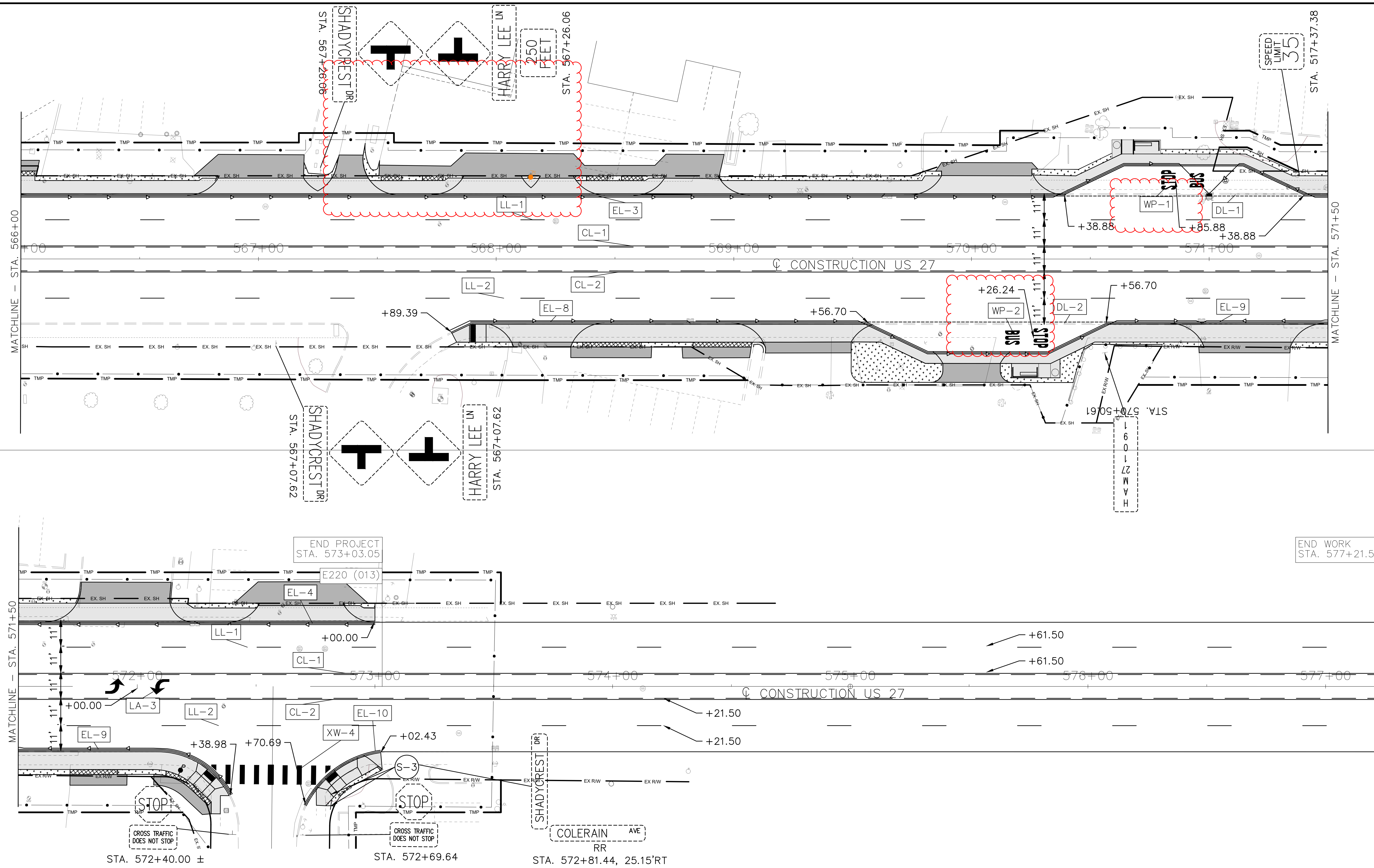
CALCULATED
 SCR
 CHECKED
 MM
 SIGN AND PAVMENT MARKING GENERAL SUMMARY
 HAM-27-11.09
 52
 98

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REF NO.	SHEET NO.	STATION TO STATION				630	630	630	644	644	644	644	644	644	644	644	644	644	644	644	644
						STREET NAME SIGN SUPPORT, NO. 3 POST FT	GROUND MOUNTED SUPPORT, NO. 3 POST FT	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION EACH	EDGE LINE, 6" MILE	LANE LINE, 6" MILE	CENTER LINE MILE	CROSSWALK LINE, 24" FT	LANE ARROW EACH	WORD ON PAVEMENT, 72" EACH	DOTTED LINE, 6" FT	YIELD LINE FT					
CL US 27																					
EL-1	54	557+11.50	LT	TO	559+41.15	LT		0.04													
EL-2	54	559+60.13	LT	TO	564+69.48	LT		0.10													
EL-3	54-55	564+99.40	LT	TO	570+38.84	LT		0.11													
EL-4	55	571+38.84	LT	TO	573+00.00	LT		0.03													
EL-5	54	557+24.75	RT	TO	557+71.58	RT		0.01													
EL-6	54	558+04.62	RT	TO	559+41.17	RT		0.03													
EL-7	54-55	559+60.14	RT	TO	562+39.25	RT		0.05													
EL-8	55	567+89.39	RT	TO	569+56.70	RT		0.03													
EL-9	55	570+56.70	RT	TO	572+38.98	RT		0.04													
EL-10	55	572+70.69	RT	TO	573+02.43	RT		0.01													
LL-1	54-55	555+96.50	LT	TO	575+61.50	LT															
LL-2	54-55	554+56.50	RT	TO	574+21.50	RT															
CL-1	54-55	555+96.50	LT	TO	575+61.50	LT															
CL-2	54-55	554+56.50	RT	TO	574+21.50	RT															
YL-1	54	559+88.61	RT																		
YL-1	54	559+09.61	LT																		
XW-1	54	559+44.61	RT/LT																		
XW-2	54	557+62.35	LT	TO	558+05.76	LT															
XW-3	54	564+55.30	RT	TO	565+22.49	RT															
XW-4	55	572+27.72	LT	TO	572+86.10	LT															
LA-1	54	558+42.44	CL																		
LA-2	54	565+17.40	CL																		
LA-3	55	572+00.00	CL																		
DA-1	55	570+38.84	LT	TO	571+38.84	LT															
DA-2	55	569+56.70	RT	TO	570+56.70	RT															
S-1	54	559+11.15	RT																		
S-2	54	560+78.03	RT	TO	560+86.60	RT															
S-3	55	572+81.44	RT																		
WP-1	55	570+85.88	LT																		
WP-2	55	569+26.24	RT																		
TOTALS CARRIED TO GENERAL SUMMARY					11	27.50	5	0.45	0.74	0.74	173	6	2	200	8						

CALCULATED SCR CHECKED MM
SIGN AND PAVEMENT MARKINGS SUBSUMMARY
HAM-27-11.09
53 98

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PAVEMENT MARKING LEGEND	
EL	EDGE LINE, WHITE 6"
YL	YIELD LINE, WHITE 36"
DY	CENTER LINE, SOLID DOUBLE YELLOW 8"
CL	CENTER LINE, BROKEN & SOLID DOUBLE 8"
DL	DOTTED LINE, WHITE 6"
LL	LANE LINE 6"
SL	STOP LINE
XW	CROSS WALK 24"
LA	LANE ARROW
WP	WORD ON PAVEMENT

SIGN LEGEND	
[Dashed Box]	EXISTING SIGN TO REMAIN
[Dashed Box]	EXISTING SIGN TO BE REMOVED AND RE-ERECTED ON NEW POST
[RR]	RR

- NOTES
- BUS STOP SIGNAGE AND PAVEMENT MARKINGS TO BE REMOVED OR INSTALLED BY OTHERS
 - FOR RAISED PAVEMENT MARKERS (RPM) INSTALLATION, SEE SCD TC-65.10 AND TC-65.11.
 - FOR CENTERLINE GEOMETRY, SEE SCHEMATIC PLAN SHEETS.
 - EXISTING SIGNS TO REMAIN ARE NOT TO BE DISTURBED.
 - PROPOSED PAVEMENT MARKINGS TO MATCH EXISTING AT BEGINNING AND END OF PROJECT LIMITS
 - PARKING STALL PAINT REMOVED FOR CONSTRUCTION PURPOSES TO BE REPLACED IN KIND UNLESS OTHERWISE NOTED.
 - NEW PARKING STALL PAVEMENT MARKING TO BE PLACED PER COLERAIN TOWNSHIP ZONING CODES.

HAM-27-11.09

SIGN AND PAVEMENT MARKING PLAN
STA. 566+00 TO STA. 577+21.50

CALCULATED 0
SCR
CHECKED MAM

SCALE IN FEET
HORIZONTAL
1" = 40'

55
98

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ITEM 625 – POWER SERVICE, AS PER PLAN

POWER IS TO BE OBTAINED FROM THE DUKE ENERGY. THE SERVICE IS TO BE GROUND MOUNTED IN A LOCKABLE CABINET AS SHOWN IN THE PLANS. CONTROL CENTER SHALL BE SC60 SINGLE OR DOUBLE STYLE FOR 120/240 VOLTS, 3-WIRE, GROUNDED NEUTRAL SERVICE. A GROUND ROD SHALL BE PROVIDED AT THE POINT OF SERVICE. PROVIDE A CABINET, WORK PAD, RISER AND FOUNDATION PER ODOT ITEM 633 AND ODOT SCD TC-83.20. MOUNT A METER BASE ON THE EXTERIOR OF EACH CABINET WITH THE CONDUIT FOR INCOMING POWER EXTERNAL TO THE CABINET. PROVIDE TWO 4-INCH, 725.04 CONDUITS BETWEEN THE CONTROL CABINET AND THE FIRST PULLBOX. ALSO PROVIDE A 4-INCH, 725.04 CONDUIT BETWEEN THE CONTROL CABINET AND POWER POLE IF APPLICABLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHARGES MADE BY THE POWER COMPANY FOR WORK BY THE COMPANY IN CONJUNCTION WITH THE ESTABLISHMENT OF THE REQUIRED SERVICE. THIS SHALL INCLUDE NEW POWER SERVICE ESTABLISHED BY THIS PROJECT AS WELL AS REASSIGNMENT OF EXISTING SERVICE DO TO WORK PERFORMED BY THIS PROJECT. ELECTRICAL ENERGY FROM EXISTING POWER SERVICES SHALL CONTINUE TO BE CHARGED TO THE MAINTAINING AGENCY. THE CONTRACTOR SHALL PAY ELECTRICAL ENERGY CHARGES FOR NEW POWER SERVICES ESTABLISHED BY THIS PROJECT. AFTER ACCEPTANCE OF THE LIGHTING, THE POWER SERVICE ELECTRICAL ENERGY ACCOUNT SHALL BE TRANSFERRED TO COLERAIN. THE CONTRACTOR SHALL PAY ALL CHARGES MADE BY THE POWER COMPANY FOR ESTABLISHMENT OF ELECTRICAL SERVICE AT THE CONTROL CENTER LOCATION SHOWN IN THE PLANS.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ODOT ITEM 625 – POWER SERVICE, AS PER PLAN WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, FOUNDATIONS, CABINET, PAINTING, WORK PAD, METER BASE, CONTROL EQUIPMENT, CONDUIT, LOCKS, SERVICE CHARGES, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMAN LINE MANNER.

ITEM 625-LIGHT POLE FOUNDATION, AS PER PLAN

THIS ITEM SHALL BE AS ITEM 625 LIGHT POLE FOUNDATION AS DETAILED IN THE LIGHTING PLANS AND DETAILS. BELOW GRADE DIMENSIONS SHALL BE APPROXIMATELY 18" DIAMETER AND 5'-0" DEEP. ANCHOR BOLTS SHALL BE PER THE LIGHT POLE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL USE A CLEAR-CURING COMPOUND ON THE FOUNDATION.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ODOT ITEM 625 – LIGHT POLE FOUNDATION, AS PER PLAN WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, FOUNDATIONS, CONDUIT, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMAN LINE MANNER.

ITEM 625 PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNAN 660A, AND SHALL BE KEYPED IN ACCORDANCE WITH C&MS 631.06. PAYMENT SHALL BE INCLUDED IN THE BID FOR THE ITEM(S) BEING LOCKED.
ITEM 625 UTILITY COORDINATION

THE CONTRACTOR SHALL CONTACT THE OHIO UTILITY PROTECTION SERVICE (OUPS) A MINIMUM OF 2 BUSINESS DAYS PRIOR THE CONDUIT INSTALLATION TO AVOID INTERFERENCE WITH EXISTING UTILITIES.

ITEM 625 PULL BOX INSTALLATION

THE CONTRACTOR SHALL INSTALL THE PROPOSED PULL BOXES AT THE LOCATIONS SHOWN IN THE PLANS AND AS PER SCD HL-30.11. IN ADDITION, TO THE REQUIREMENTS OF ITEM 625, THE PULL BOX TOP SHALL MATCH THE SLOPE OF THE FINISH GRADE. THE CONTRACTOR SHALL VERIFY ALL SLOPES, GRADES, AND ELEVATIONS PRIOR TO THE INSTALLATION OF PULL BOXES.

ITEM 625 – TRENCH, AS PER PLAN

THE CONTRACTOR SHALL COORDINATE ALL THE TRENCHING AND LIGHT POLE BASES WITH OTHER TRADES AND EXISTING UNDERGROUND UTILITY SERVICES.

CLEAR ZONES DIGGING AROUND UTILITIES ARE:
DUKE GAS = 12" CLEAR (8" MAIN + 12"=16" FROM CENTER LINE
ALTA/CBT = 6" CLEAR (15.5" FIBER + 13.75" FROM CENTERLINE)
MSD LATERALS = 18"
ANYTHING CLOSER COORDINATE WITH UTILITY COMPANIES AND HAND DIG. REFER TO CIVIL DRAWINGS FOR ELEVATIONS AND CLARITY.

ITEM 625 – LIGHT POLE, DECORATIVE, AS PER PLAN

1.) POLE – HEIGHT PER PLANS. POLE SHALL INCLUDE HARDWARE AND SUPPORT FOR BANNER ARMS AND GFI RECEPTACLE. POLE SHALL ALSO HAVE OUTLET INSTALLED AT TOP FOR FUTURE USE. POLE SHALL BE COMPOSED OF ALUMINUM ALLOY AND OF ONE PIECE CONSTRUCTION.

2.) FINISH – POWDER COATED BLACK.

3.) POLE DIMENSIONS AND STYLE SHALL BE PER STERNBERG (BASIS OF DESIGN)
LIGHTING POLE: 4500 SERIES OR APPROVED EQUAL.

4.) POLE CONSTRUCTION AND MATERIALS SHALL CONFORM TO AASHTO AND ODOT STANDARDS AND SPECIFICATIONS.

5.) WELDING IN LIEU OF THE REQUIREMENTS OF ITEM 625 AND 725, WELDING SHALL BE AS SPECIFIED IN THE AMERICAN WELDING SOCIETY SPECIFICATIONS.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ODOT ITEM 625 – LIGHT POLE, DECORATIVE, AS PER PLAN WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, PAINTING, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMAN LINE MANNER.

ITEM 625 – LUMINAIRE, DECORATIVE, AS PER PLAN

APPROVED EQUIVALENT MANUFACTURER BASED AROUND THE BASIS OF DESIGN HARDWARE SHALL BE PER MANUFACTURER AS FOLLOWS:

STERNBERG LIGHTING
555 LAWRENCE AVE
ROSELLE, IL 60172
800-621-3376

POLE AND BASE :
MODEL #4500 SERIES POLE, MAIN SHAFT 4" DIA X .25" THICK CAST ALUMINUM WALL,
10.5" DIAMETER BASE BY 14' HIGH RATED FOR 120 EPA, STRAIGHT SMOOTH ONE PIECE CAST ALUMINUM POLE WITH NOMINALLY 29" HIGH FLUTED BASE, (2) 18" LONG BANNER ARMS,, INTEGRAL GFI RECEPTACLE WITH "WHILE-IN-USE" COVER MOUNTED BELOW THE LUMINAIRE SLIP FITTER, POLE BASE ACCESS HANDHOLE, ANCHOR BASE BOLT COVER PLATE, BREAK AWAY ANCHOR BOLTS, BLACK TEXTURED COLOR FINISH. THE BANNER ARMS, RECEPTACLE AND POLE HAND HOPE SHALL BE FACING THE SIDEWALK SIDE OF THE POLE.

LUMINAIRE HEAD:
STERNBERG "CAMBRIDGE" MODEL #A78LED POST TOP MOUNT LUMINAIRE, NOMINALLY 18" DIA BY 41" HIGH, ACRYLIC LENSE, CAST ALUMINUM HOUSING, CAST ALUMINUM ROOF AND FINIAL, TYPE #991 FITTER, "MDL06" DRIVER, 5400 LUMENS, TYPE T5 OPTICS, 3500 KELVIN RATING LED,

BOLLARD:
STERNBERG "GENEVA" 8701LED BOLLARD, CAST ALUMINUM BODY WITH 1" CAST FLOOR BASE, INDIVIDUAL VERTICAL COLLIMATING ACRYLIC SYMMETIC OPTICS, 3500 KELVIN LAMP.

FINISH FOR POLE, LUMINAIRE AND BOLLARDS – POWDER COATED BLACK.

LUMINAIRE CONSTRUCTION AND MATERIALS SHALL CONFORM TO AASHTO AND ODOT STANDARDS AND SPECIFICATIONS.

WELDING IN LIEU OF THE REQUIREMENTS OF ITEM 625 AND 725, WELDING SHALL BE AS SPECIFIED IN THE AMERICAN WELDING SOCIETY SPECIFICATIONS.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH ODOT ITEM 625 – LUMINAIRE, DECORATIVE, AS PER PLAN WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, PAINTING, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMAN LINE MANNER.

CALCULATED
TSR
CHECKED
EAS

LIGHTING NOTES

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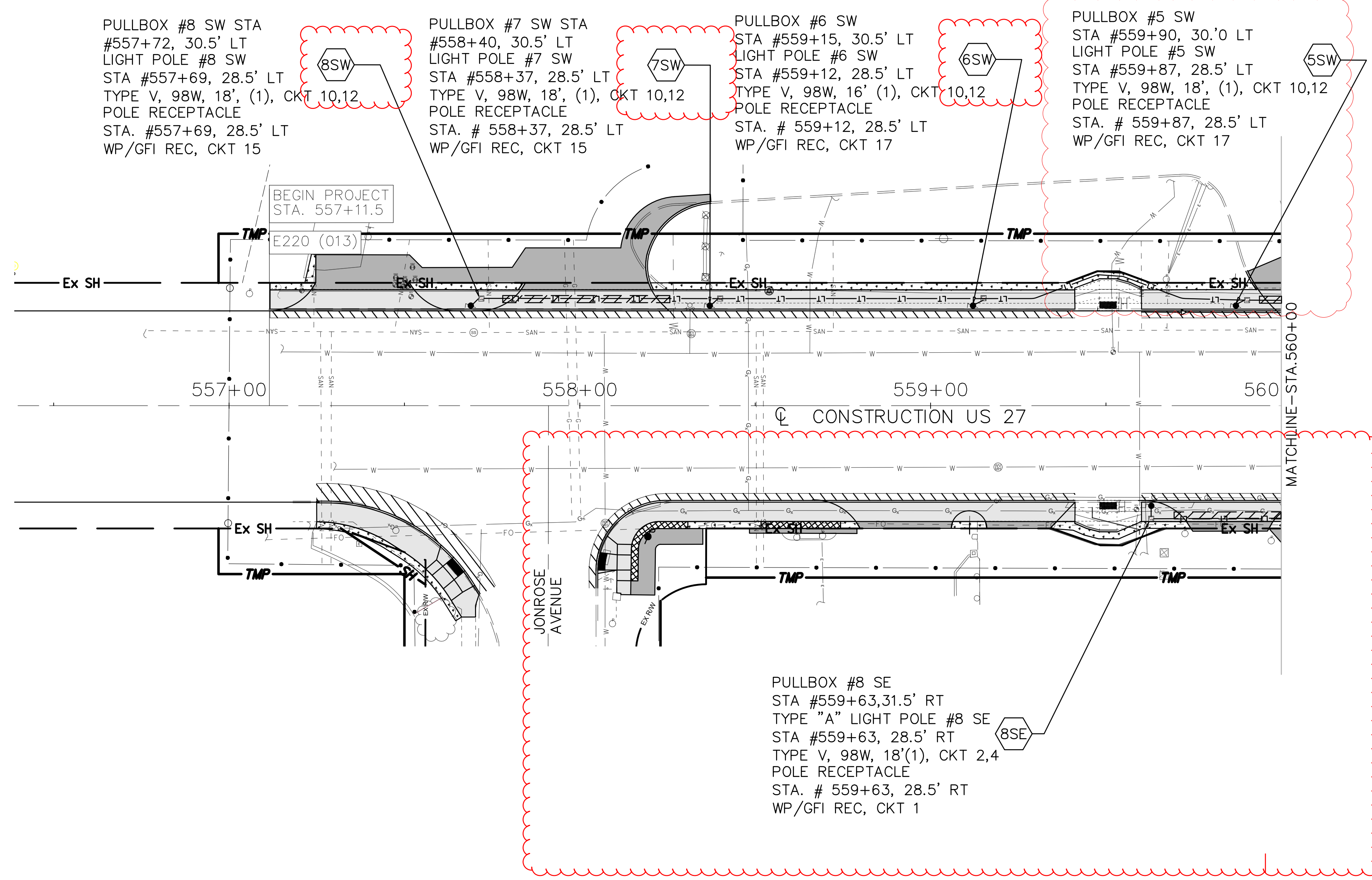
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CALCULATED
TSR
CHECKED
EAS

0 10 20
HORIZONTAL
SCALE IN FEET

HAM-27-11.09 LIGHTING PLAN
STA. 557+00.00 TO STA. 560+00.00

58
98

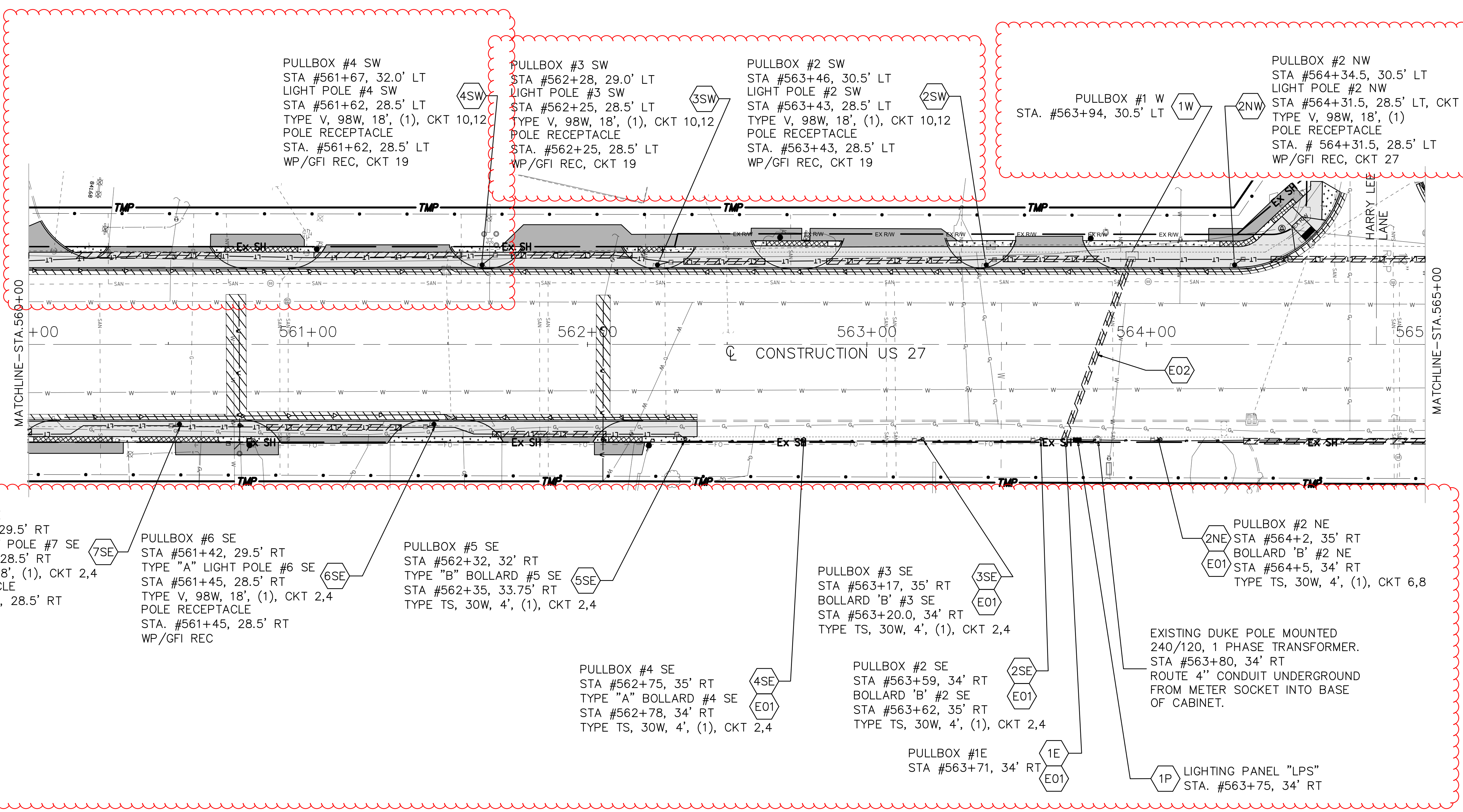


UTILITY LINETYPE LEGEND

—E—	UNDERGROUND ELECTRIC
—FO—	UNDERGROUND FIBER OPTIC
—T—	UNDERGROUND TELECOMMUNICATION
—OHT—	OVERHEAD TELECOM / FIBER OPTIC / CATV
—OHU—	OVERHEAD ELECTRIC / COMBINED
—G—	GAS MAIN
—W—	WATER MAIN
—SAN—	SANITARY SEWER
—SS—	STORM SEWER
—LT—	PROPOSED LIGHTING CONDUIT

LEGEND

●	PR. LIGHT POLE	▭	PROPOSED SIDEWALK
⊕	PR. LIGHT BOLLARD	▭	DRIVEWAY AND PARKING LOT
□	PR. PULL BOX	▭	REPAIR LIMITS
—	CONSTRUCTION LIMITS	▨	SAWCUT AND PAVEMENT REPAIR
▨	CONCRETE ENCASED CONDUIT	▨	SEAT WALL



PULLBOX #7 SE
 STA #560+51, 29.5' RT
 TYPE "A" LIGHT POLE #7 SE
 STA #560+54, 28.5' RT
 TYPE V, 98W, 18', (1), CKT 2,4
 POLE RECEPTACLE
 STA. # 560+54, 28.5' RT
 WP/GFI REC

PULLBOX #6 SE
 STA #561+42, 29.5' RT
 TYPE "A" LIGHT POLE #6 SE
 STA #561+45, 28.5' RT
 TYPE V, 98W, 18', (1), CKT 2,4
 POLE RECEPTACLE
 STA. #561+45, 28.5' RT
 WP/GFI REC

PULLBOX #5 SE
 STA #562+32, 32' RT
 TYPE "B" BOLLARD #5 SE
 STA #562+35, 33.75' RT
 TYPE TS, 30W, 4', (1), CKT 2,4

PULLBOX #4 SE
 STA #562+75, 35' RT
 TYPE "A" BOLLARD #4 SE
 STA #562+78, 34' RT
 TYPE TS, 30W, 4', (1), CKT 2,4

PULLBOX #3 SE
 STA #563+17, 35' RT
 BOLLARD 'B' #3 SE
 STA #563+20.0, 34' RT
 TYPE TS, 30W, 4', (1), CKT 2,4

PULLBOX #2 SE
 STA #563+59, 34' RT
 BOLLARD 'B' #2 SE
 STA #563+62, 35' RT
 TYPE TS, 30W, 4', (1), CKT 2,4

PULLBOX #1E
 STA #563+71, 34' RT

PULLBOX #2 NE
 STA #564+2, 35' RT
 BOLLARD 'B' #2 NE
 STA #564+5, 34' RT
 TYPE TS, 30W, 4', (1), CKT 6,8

EXISTING DUKE POLE MOUNTED
 240/120, 1 PHASE TRANSFORMER.
 STA #563+80, 34' RT
 ROUTE 4" CONDUIT UNDERGROUND
 FROM METER SOCKET INTO BASE
 OF CABINET.

LIGHTING PANEL "LPS"
 STA. #563+75, 34' RT

UTILITY LINETYPE LEGEND

—E—	UNDERGROUND ELECTRIC
—FO—	UNDERGROUND FIBER OPTIC
—T—	UNDERGROUND TELECOMMUNICATION
—OHT—	OVERHEAD TELECOM / FIBER OPTIC / CATV
—OHU—	OVERHEAD ELECTRIC / COMBINED
—G—	GAS MAIN
—W—	WATER MAIN
—SAN—	SANITARY SEWER
—SS—	STORM SEWER
—LT—	PROPOSED LIGHTING CONDUIT

LEGEND

●	PR. LIGHT POLE	▬▬▬	PROPOSED SIDEWALK
⊕	PR. LIGHT BOLLARD	▬▬▬▬▬	DRIVEWAY AND PARKING LOT REPAIR LIMITS
□	PR. PULL BOX	▨▨▨▨▨	SAWCUT AND PAVEMENT REPAIR
—	CONSTRUCTION LIMITS	XXXXXX	SEAT WALL
▬▬▬▬▬	CONCRETE ENCASED CONDUIT		

DRAWING NOTES

- E01 SAW CUT AND REMOVE THAT SECTION OF EXISTING SIDE WALK AT JOINT LINE TO GET POLE BASE AND OR CONDUIT INSTALLED. INSTALL NEW CONCRETE SIDEWALK WITH DOWELING TO ADJACENT EXISTING SIDEWALK. MATCH EXISTING CONCRETE COLOR TONE.
- E02 OPEN SAW CUT STREET TO ROUTE UNDERGROUND CONDUIT FOR BRANCH CIRCUITS BETWEEN PULLBOXES. REFER TO CIVIL DOCUMENTS REGARDING BACKFILL AND PATCHING.

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PULLBOX #3 NW
 STA #565+48.5, 31' LT
 LIGHT POLE 'A' #3 NW
 STA #565+45.5, 28.5' LT
 TYPE V, 98W, 18', (1), CKT 14,16
 POLE RECEPTACLE
 STA. #565+45.5, 28.5' LT
 WP/GFI REC, CKT 21

PULLBOX #4 NW
 STA #566+7, 32' LT
 LIGHT POLE 'A' #4 NW
 STA #566+4, 28.5' LT
 TYPE V, 98W, 18', (1), CKT 14,16
 POLE RECEPTACLE
 STA. # 566+4, 28.5 LT
 WP/GFI REC, CKT 21

PULLBOX #5 NW
 STA #566+73, 32' LT
 LIGHT POLE 'A' #5 NW
 STA #566+70, 28.5' LT
 TYPE V, 98W, 18', (1), CKT 14,16
 POLE RECEPTACLE
 STA. #566+70, 28.5' LT
 WP/GFI REC. CKT 23

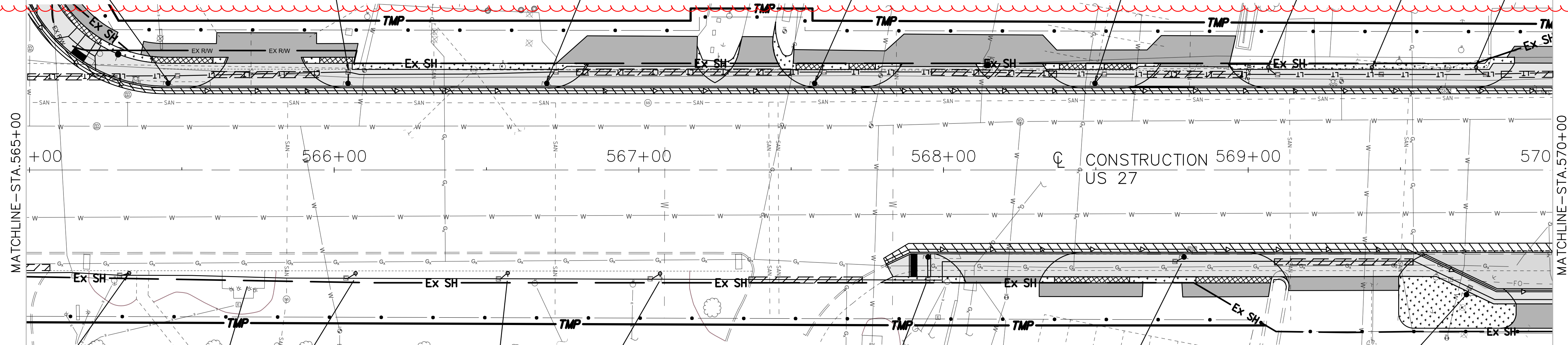
PULLBOX #6 NW
 STA #567+61, 32' LT
 LIGHT POLE 'A' #6 NW
 STA #567+58, 28.5' LT
 TYPE V, 98W, 18', (1), CKT 14,16
 POLE RECEPTACLE
 STA. # 567+58, 28.5' LT
 WP/GFI REC, CKT 23

PULLBOX #7 NW
 STA #568+53, 31.5' LT
 LIGHT POLE 'A' #7 NW
 STA #568+50, 28.5' LT
 TYPE V, 98W, 18', (1), CKT 14,16
 POLE RECEPTACLE
 STA. # 568+50, 28.5' LT
 WP/GFI REC, CKT 23

PULLBOX #8 NW
 STA #569+10, 31.5' LT
 BOLLARD 'B' #8 NW
 STA #569+7, 33.75' LT
 TYPE TS, 30W, 4', (1), CKT 14,16

PULLBOX #9 NW
 STA #569+44, 31.5' LT
 BOLLARD 'B' #9 NW
 STA #569+41, 33.75' LT
 TYPE TS, 30W, 4', (1), CKT 14,16

PULLBOX #10 NW
 STA #569+78, 31.5' LT
 BOLLARD 'B' #10 NW
 STA #569+75, 33.75' LT
 TYPE TS, 30W, 4', (1), CKT 14,16



PULLBOX #3 NE
 STA #565+29.5, 35' RT
 BOLLARD 'B' #3 NE
 STA #565+32.5, 34' RT
 TYPE TS, 30W, 4', (1), CKT 6,8

PULLBOX #4 NE
 STA #566+4, 35' RT
 BOLLARD 'B' #4 NE
 STA #566+7, 34' RT
 TYPE TS, 30W, 4', (1), CKT 6,8

PULLBOX #5 NE
 STA #566+54, 35' RT
 BOLLARD 'B' #5 NE
 STA #566+57, 34' RT, CKT 6,8
 TYPE TS, 30W, 4', (1)

PULLBOX #6 NE
 STA #567+4, 35' RT
 BOLLARD 'B' #6 NE
 STA #567+07, 34' RT, CKT 6,8
 TYPE TS, 30W, 4', (1)

PULLBOX #7 NE
 STA #567+95, 36' RT
 LIGHT POLE 'A' #7 NE
 STA #567+95, 28.5' RT
 TYPE V, 98W, 18', (1), CKT 6,8
 POLE RECEPTACLE
 STA. #567+95, 28.5' RT
 WP/GFI REC, CKT 9

PULLBOX #8 NE
 STA #568+76, 30' RT
 LIGHT POLE 'A' #8 NE
 STA #568+79, 28.5' RT
 TYPE V, 98W, 18', (1), CKT 6,8
 POLE RECEPTACLE
 STA. 567+79, 28.5' RT
 WP/GFI REC, CKT 9

PULLBOX #9 NE
 STA #569+71.5, 38.5' RT
 LIGHT POLE 'A' #9 NE
 STA #569+73, 41' RT
 TYPE V, 98W, 18', (1), CKT 6,8
 POLE RECEPTACLE
 STA. #569+73, 41' RT
 WP/GFI REC, CKT 11

DRAWING NOTES

- E01 SAW CUT AND REMOVE THAT SECTION OF EXISTING SIDE WALK AT JOINT LINE TO GET POLE BASE AND OR CONDUIT INSTALLED. INSTALL NEW CONCRETE SIDEWALK WITH DOWELING TO ADJACENT EXISTING SIDEWALK. MATCH EXISTING CONCRETE COLOR TONE.
- E02 BORE UNDER EXISTING GRADE MOUNTED MONUMENT WITH EXISTING GRADE MOUNTED LIGHTING.

UTILITY LINETYPE LEGEND

- E — UNDERGROUND ELECTRIC
- FO — UNDERGROUND FIBER OPTIC
- T — UNDERGROUND TELECOMMUNICATION
- OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
- OHU — OVERHEAD ELECTRIC / COMBINED
- G — GAS MAIN
- W — WATER MAIN
- SAN — SANITARY SEWER
- ST — STORM SEWER
- LT — PROPOSED LIGHTING CONDUIT

LEGEND

- PR. LIGHT POLE
- ⊕ PR. LIGHT BOLLARD
- PR. PULL BOX
- — — CONSTRUCTION LIMITS
- ▨▨▨▨ CONCRETE ENCASED CONDUIT
- ▭ PROPOSED SIDEWALK
- ▨ DRIVEWAY AND PARKING LOT
- ▨ REPAIR LIMITS
- ▨▨▨▨ SAWCUT AND PAVEMENT REPAIR
- XXXXXX SEAT WALL

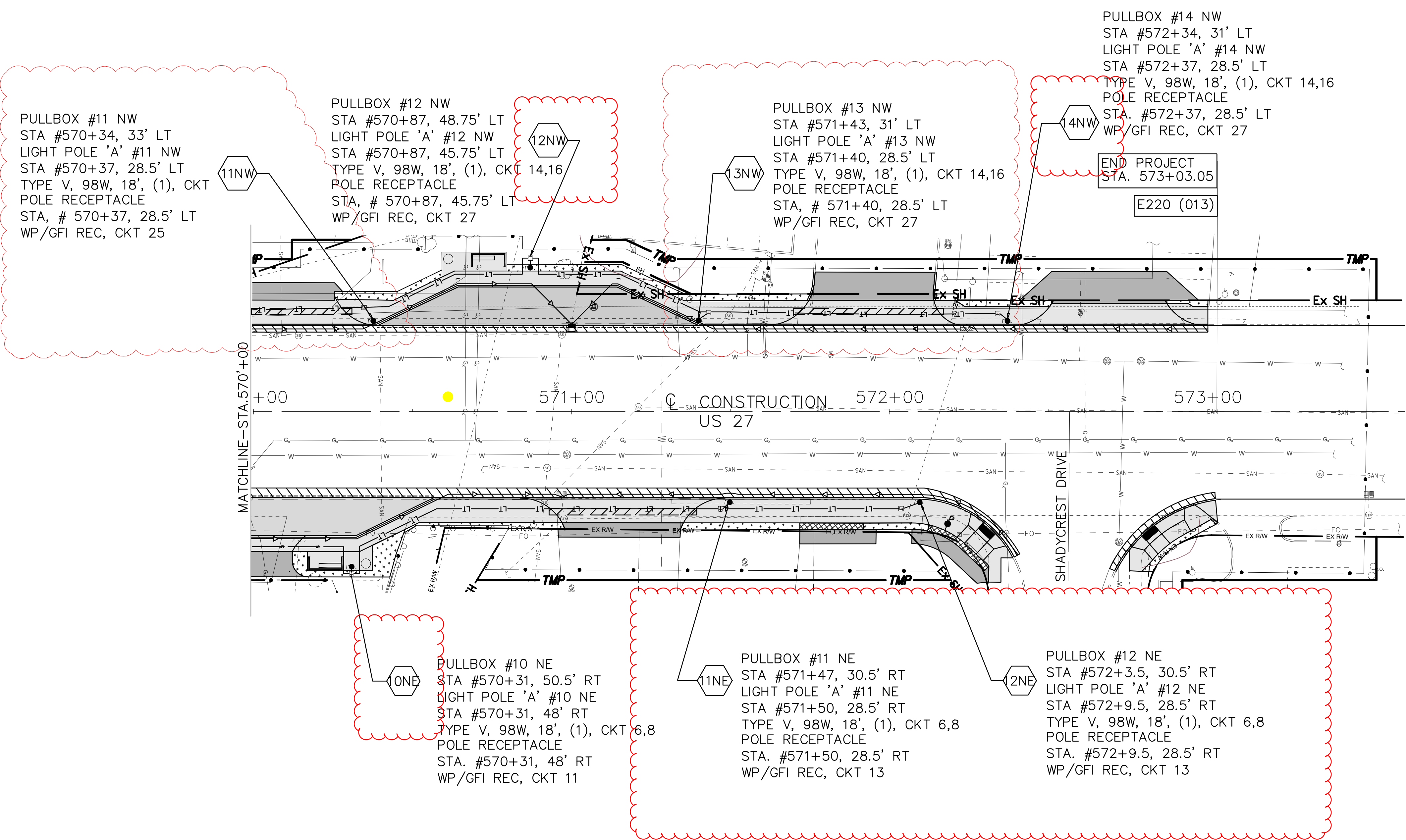
f:\Projects\694701\05_deliverables\Drawings\113851\Design\Lighting\Sheets\113851LP004.dwg 17-Apr-23 10:16 PM

CALCULATED
TSR
CHECKED
EAS

0 10 20
HORIZONTAL
SCALE IN FEET

LIGHTING PLAN
STA. 570+00.00 TO STA. 574+00.00

HAM-27-11.09
61
98



PULLBOX #11 NW
STA #570+34, 33' LT
LIGHT POLE 'A' #11 NW
STA #570+37, 28.5' LT
TYPE V, 98W, 18', (1), CKT
POLE RECEPTACLE
STA, # 570+37, 28.5' LT
WP/GFI REC, CKT 25

PULLBOX #12 NW
STA #570+87, 48.75' LT
LIGHT POLE 'A' #12 NW
STA #570+87, 45.75' LT
TYPE V, 98W, 18', (1), CKT 14,16
POLE RECEPTACLE
STA, # 570+87, 45.75' LT
WP/GFI REC, CKT 27

PULLBOX #13 NW
STA #571+43, 31' LT
LIGHT POLE 'A' #13 NW
STA #571+40, 28.5' LT
TYPE V, 98W, 18', (1), CKT 14,16
POLE RECEPTACLE
STA, # 571+40, 28.5' LT
WP/GFI REC, CKT 27

PULLBOX #14 NW
STA #572+34, 31' LT
LIGHT POLE 'A' #14 NW
STA #572+37, 28.5' LT
TYPE V, 98W, 18', (1), CKT 14,16
POLE RECEPTACLE
STA. #572+37, 28.5' LT
WP/GFI REC, CKT 27

END PROJECT
STA. 573+03.05
E220 (013)

PULLBOX #10 NE
STA #570+31, 50.5' RT
LIGHT POLE 'A' #10 NE
STA #570+31, 48' RT
TYPE V, 98W, 18', (1), CKT 6,8
POLE RECEPTACLE
STA. #570+31, 48' RT
WP/GFI REC, CKT 11

PULLBOX #11 NE
STA #571+47, 30.5' RT
LIGHT POLE 'A' #11 NE
STA #571+50, 28.5' RT
TYPE V, 98W, 18', (1), CKT 6,8
POLE RECEPTACLE
STA. #571+50, 28.5' RT
WP/GFI REC, CKT 13

PULLBOX #12 NE
STA #572+3.5, 30.5' RT
LIGHT POLE 'A' #12 NE
STA #572+9.5, 28.5' RT
TYPE V, 98W, 18', (1), CKT 6,8
POLE RECEPTACLE
STA. #572+9.5, 28.5' RT
WP/GFI REC, CKT 13

- UTILITY LINETYPE LEGEND**
- E — UNDERGROUND ELECTRIC
 - FO — UNDERGROUND FIBER OPTIC
 - T — UNDERGROUND TELECOMMUNICATION
 - OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
 - OHU — OVERHEAD ELECTRIC / COMBINED
 - G_c — GAS MAIN
 - W — WATER MAIN
 - SAN — SANITARY SEWER
 - SS — STORM SEWER
 - LT — PROPOSED LIGHTING CONDUIT

- LEGEND**
- PR. LIGHT POLE
 - ⊕ PR. LIGHT BOLLARD
 - PR. PULL BOX
 - CONSTRUCTION LIMITS
 - ZZZZZ CONCRETE ENCASED CONDUIT
 - ▭ PROPOSED SIDEWALK
 - ▭ DRIVEWAY AND PARKING LOT
 - ▭ REPAIR LIMITS
 - ▨ SAWCUT AND PAVEMENT REPAIR
 - XXXXXX SEAT WALL

SE LIGHTING POLES VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 240		Wire Factor Used (Number - Type of wire used) = 1.210 ohms/mft/1000				Circuit: 2,4				
Per #10 Cooper AWG rated at 75C										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
8SE	PULLBOX 7SE	113	0.42	0.42	47	#10	0.06	0.68	0.28	8SE
7SE	PULLBOX 6SE	115	0.42	0.84	97	#10	0.12	0.63	0.26	7SE
6SE	PULLBOX 5SE	115	0.42	1.26	145	#10	0.18	0.51	0.21	6SE
5SE	PULLBOX 4SE	53	0.13	1.39	73	#10	0.09	0.33	0.14	5SE
4SE	PULLBOX 3SE	52	0.13	1.51	79	#10	0.10	0.24	0.10	4SE
3SE	PULLBOX 2SE	52	0.13	1.64	85	#10	0.10	0.15	0.06	3SE
2SE	PANEL	22	0.13	1.76	39	#10	0.05	0.05	0.02	2SE

NE LIGHTING POLES VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 240		Wire Factor Used (Number - Type of wire used) = 1.210 ohms/mft/1000				Circuit: 6,8				
Per #10 Cooper AWG rated at 75C										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
12NE	PULLBOX 11NE	81	0.42	0.42	34	#10	0.00	2.49	1.04	12NE
11NE	PULLBOX 10NE	141	0.42	0.84	118	#10	0.14	2.49	1.04	11NE
10NE	PULLBOX 9NE	84	0.42	1.26	106	#10	0.13	2.34	0.98	10NE
9NE	PULLBOX 8NE	121	0.42	1.68	203	#10	0.25	2.22	0.92	9NE
8NE	PULLBOX 7NE	106	0.42	2.10	223	#10	0.27	1.97	0.82	8NE
7NE	PULLBOX 6NE	116	0.42	2.52	292	#10	0.35	1.70	0.71	7NE
6NE	PULLBOX 5NE	60	0.13	2.65	159	#10	0.19	1.35	0.56	6NE
5NE	PULLBOX 4NE	60	0.13	2.77	166	#10	0.20	1.16	0.48	5NE
4NE	PULLBOX 3NE	84.5	0.13	2.90	245	#10	0.30	0.95	0.40	4NE
3NE	PULLBOX 2NE	137.5	0.13	3.02	415	#10	0.50	0.66	0.27	3NE
2NE	PANEL	41	0.13	3.15	129	#10	0.16	0.16	0.07	2NE

SW LIGHTING POLES VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 240		Wire Factor Used (Number - Type of wire used) = 1.210 ohms/mft/1000				Circuit: 10,12				
Per #10 Cooper AWG rated at 75C										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
8SW	PULLBOX 7SW	93	0.42	0.42	39.06	#10	0.05	1.16	0.49	8SW
7SW	PULLBOX 6SW	100	0.42	0.84	84	#10	0.10	1.12	0.47	7SW
6SW	PULLBOX 5SW	100	0.42	1.26	126	#10	0.15	1.02	0.42	6SW
5SW	PULLBOX 4SW	1	0.42	1.68	1.68	#10	0.00	0.86	0.36	5SW
4SW	PULLBOX 3SW	86	0.42	2.10	180.6	#10	0.22	0.86	0.36	4SW
3SW	PULLBOX 2SW	143	0.42	2.52	360.36	#10	0.44	0.64	0.27	3SW
2SW	PULLBOX 1W	58	0.42	2.94	170.52	#10	0.21	0.21	0.09	2SW
1W	PANEL	60	0.42	3.36	201.6	#10	0.24	0.24	0.10	1W

NW LIGHTING POLES VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 240		Wire Factor Used (Number - Type of wire used) = 1.210 ohms/mft/1000				Circuit: 14,16				
Per #10 Cooper AWG rated at 75C										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
13NW	PULLBOX 12NW	125	0.42	0.42	52.5	#10	0.06	4.52	1.88	13NW
12NW	PULLBOX 11NW	100	0.42	0.84	84	#10	0.10	4.45	1.86	12NW
11NW	PULLBOX 10NW	90	0.42	1.26	113.4	#10	0.14	4.35	1.81	11NW
10NW	PULLBOX 9NW	102	0.42	1.68	171.36	#10	0.21	4.22	1.76	10NW
9NW	PULLBOX 8NW	95	0.42	2.10	199.5	#10	0.24	4.01	1.67	9NW
8NW	PULLBOX 7NW	95	0.42	2.52	239.4	#10	0.29	3.77	1.57	8NW
7NW	PULLBOX 6NW	111	0.42	2.94	326.34	#10	0.39	3.48	1.45	7NW
6NW	PULLBOX 5NW	106	0.42	3.36	356.16	#10	0.43	3.08	1.28	6NW
5NW	PULLBOX 4NW	94	0.42	3.78	355.32	#10	0.43	2.65	1.10	5NW
4NW	PULLBOX 3NW	95	0.42	4.20	399	#10	0.48	2.22	0.93	4NW
3NW	PULLBOX 2NW	154	0.42	4.62	711.48	#10	0.86	1.74	0.72	3NW
2NW	PANEL	144	0.42	5.04	725.76	#10	0.88	0.88	0.37	2NW

SE RECEPTACLE VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 120		#4 Wire Factor Used (Number - Type of wire used) = 0.308 ohms/mft/1000				Circuit: 1,3				
#6 Wire Factor Used (Number - Type of wire used) = 0.491 ohms/mft/1000										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
8SE - REC	PULLBOX 7SE	113	8.00	8.00	904	#4	0.28	1.95	1.63	8SE - REC
7SE - REC	PANEL	340	8.00	16.00	5440	#4	1.68	1.68	1.40	7SE - REC
6SE - REC	PULLBOX 5SE	254	16.00	16.00	4064	#6	2.00	2.00	1.66	6SE - REC

NE RECEPTACLE VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 120		#4 Wire Factor Used (Number - Type of wire used) = 0.308 ohms/mft/1000				Circuit: 5,7,9				
#1 Wire Factor Used (Number - Type of wire used) = 0.154 ohms/mft/1000										
#1/0 Wire Factor Used (Number - Type of wire used) = 0.122 ohms/mft/1000										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
12NE - REC	PULLBOX 11NE	81	8.00	8.00	648	#1/0	0.08	1.42	1.18	12NE - REC
11NE - REC	PANEL	685	8.00	16.00	10960	#1/0	1.34	1.34	1.11	11NE - REC
10NE - REC	PULLBOX 9NE	141	8.00	8.00	1128	#1	0.17	1.72	1.43	10NE - REC
9NE - REC	PANEL	626	8.00	16.00	10016	#1	1.54	1.54	1.29	9NE - REC
8NE - REC	PULLBOX 7NE	106	8.00	8.00	848	#4	0.26	2.47	2.06	8NE - REC
7NE - REC	PANEL	449	8.00	16.00	7184	#4	2.21	2.21	1.84	7NE - REC

SW RECEPTACLE VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 120		#8 Wire Factor Used (Number - Type of wire used) = 0.764 ohms/mft/1000				Circuit: 11,13,15				
#4 Wire Factor Used (Number - Type of wire used) = 0.308 ohms/mft/1000										
#1/0 Wire Factor Used (Number - Type of wire used) = 0.122 ohms/mft/1000										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
8SW - REC	PULLBOX 7SW	93	8.00	8.00	744	#1/0	0.09	0.09	0.08	8SW - REC
7SW - REC	PANEL	633	8.00	16.00	10128	#1/0	1.24	3.63	3.03	7SW - REC
6SW - REC	PULLBOX 5SW	100	8.00	8.00	800	#4	0.10	2.40	2.00	6SW - REC
5SW - REC	PANEL	467	8.00	16.00	7472	#4	2.30	2.30	1.92	5SW - REC
4SW - REC	PULLBOX 3SW	86	5.33	5.33	458.38	#8	0.35	2.90	2.41	4SW - REC
3SW - REC	PULLBOX 2SW	143	5.33	10.66	1524.38	#8	1.16	2.55	2.12	3SW - REC
2SW - REC	PANEL	113	5.33	15.99	1806.87	#8	1.38	1.38	1.15	2SW - REC

NW RECEPTACLE VOLTAGE DROP CALCULATIONS										
										Panel: S
Voltage: 120		#6 Wire Factor Used (Number - Type of wire used) = 0.491 ohms/mft/1000				Circuit: 17,19,21,23				
#4 Wire Factor Used (Number - Type of wire used) = 0.308 ohms/mft/1000										
#1 Wire Factor Used (Number - Type of wire used) = 0.154 ohms/mft/1000										
#1/0 Wire Factor Used (Number - Type of wire used) = 0.122 ohms/mft/1000										
VOLTAGE DROP (IN SECTION) = AMPS IN & BEYOND SECTION (A) X SECTION LENGTH (FT) X WIRE FACTOR										
Section		Amperes		Ampere-Feet	AWG	Voltage Drop		% Drop	At Point	
From	To	Feet	At Point	Accum.		In Section	Accum.			
14NW - REC	PULLBOX 13NW	116	8.00	8.00	928	#1/0	0.14	1.77	1.48	14NW - REC
13NW - REC	PANEL	834	8.00	16.00	13344	#1/0	1.63	1.63	1.36	13NW - REC
12NW - REC	PULLBOX 11NW	78	8.00	8.00	624	#1	0.10	1.88	1.57	12NW - REC
11NW - REC	PANEL	725	8.00	16.00	11600	#1	1.79	1.79	1.49	11NW - REC
7NW - REC	PULLBOX 6NW	114	5.33	5.33	607.62	#4	0.19	2.35	1.96	7NW - REC
6NW - REC	PULLBOX 5NW	113	5.33	10.66	1204.58	#4	0.37	2.16	1.80	6NW - REC
5NW - REC	PANEL	364	5.33	15.99	5820.36	#4	1.79	1.79	1.49	5NW - REC
4NW - REC	PULLBOX 3NW	81	5.33	5.33	431.73	#6	0.21	1.93	1.61	4NW - REC
3NW - REC	PULLBOX 2NW	139	5.33	10.66	1481.74	#6	0.73	1.72	1.43	3NW - REC
2NW - REC	PANEL	126	5.33	15.99	2014.74	#6	0.99	0.99	0.82	2NW - REC

LIGHTING CONTACTOR SCHEDULE - LC1				
POLE	CIRCUIT NO	AREA OF CONTROL	CONTROL BY	VOLTAGE / PH
1	2	SE LIGHT POLES & BOLLARDS	STAGE 1 TC / PC	240V /1P
2	4			
3	6	NE LIGHT POLES & BOLLARDS	STAGE 1 TC / PC	240V /1P
4	8			
5	10	SW LIGHT POLES	STAGE 1 TC / PC	240V /1P
6	12			
7	14	NW LIGHT POLES	STAGE 1 TC / PC	240V /1P
8	16			
9	SPARE			
10	SPARE			

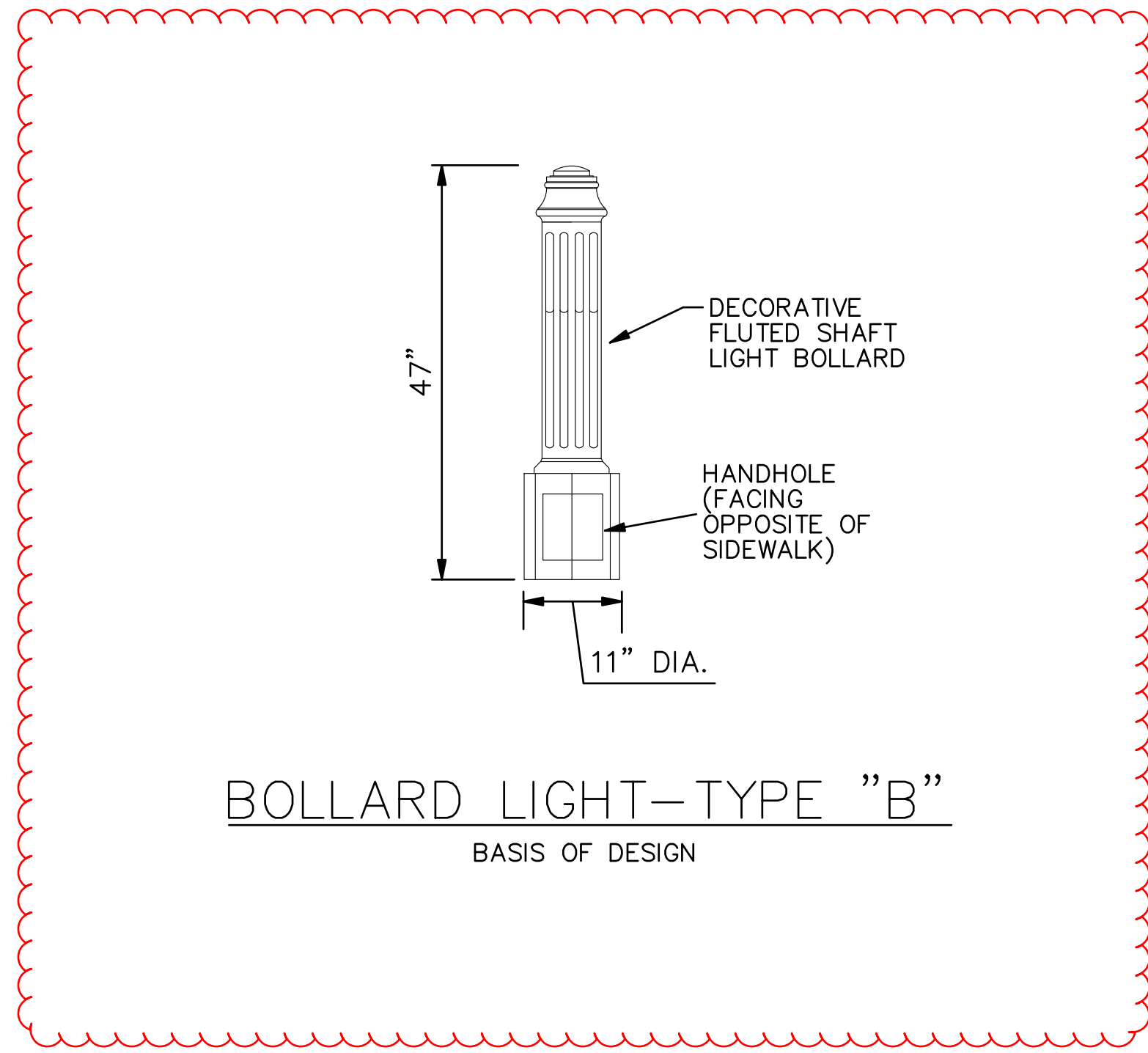
LIGHTING CONTACTOR SCHEDULE - RC1				
POLE	CIRCUIT NO	AREA OF CONTROL	CONTROL BY	VOLTAGE / PH
1	1	SE POLE RECEPT	STAGE 2 TC / PC	120V /1P
2	3	SE POLE RECEPT	STAGE 2 TC / PC	120V /1P
3	5	SE POLE RECEPT	STAGE 2 TC / PC	120V /1P
4	7	NE POLE RECEPT	STAGE 2 TC / PC	120V /1P
5	9	NE POLE RECEPT	STAGE 2 TC / PC	120V /1P
6	SPARE			
7	SPARE			
8	SPARE			

LIGHTING CONTACTOR SCHEDULE - RC2				
POLE	CIRCUIT NO	AREA OF CONTROL	CONTROL BY	VOLTAGE / PH
1	11	SW POLE RECEPT	STAGE 2 TC / PC	120V /1P
2	13	SW POLE RECEPT	STAGE 2 TC / PC	120V /1P
3	15	SW POLE RECEPT	STAGE 2 TC / PC	120V /1P
4	17	NW POLE RECEPT	STAGE 2 TC / PC	120V /1P
5	19	NW POLE RECEPT	STAGE 2 TC / PC	120V /1P
6	21	NW POLE RECEPT	STAGE 2 TC / PC	120V /1P
7	23	NW POLE RECEPT	STAGE 2 TC / PC	120V /1P
8	SPARE			

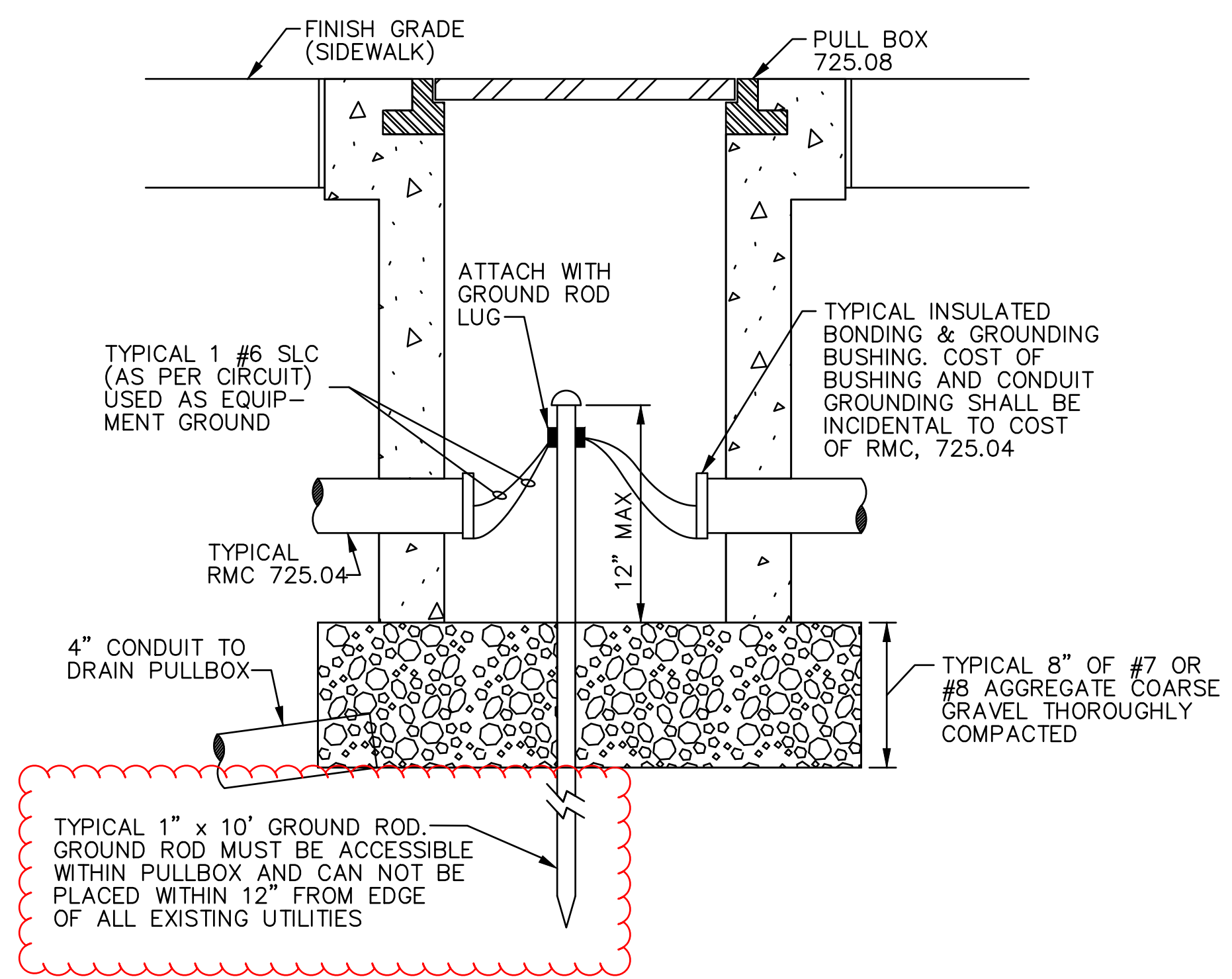
PANEL: "LP-S"		120/240V, 1PH, 3W									
		150 AMP MCB									
		225 A BUS									
		22,000 AIC									
		GROUND BAR									
SERVES: LIGHTING & RECEPT ON ST RT 27 BETWEEN JONROSE & SANDYCREST DR											
MOUNTING SURFACE		LOAD IN KVA PER PHASE									
CKT	DESCRIPTION	NOTE	BKR	PL	A	B	PL	BKR	NOTE	DESCRIPTION	CKT
1	SE POLE RECEPT	2	20	1	0.36	0.21				SE LIGHT POLES & BOLLARDS	2
3	SE POLE RECEPT	2	20	1		0.18	0.21				4
5	SE POLE RECEPT	2	20	1	0.36	0.37				NE LIGHT POLES & BOLLARDS	6
7	NE POLE RECEPT	2	20	1		0.36	0.37				8
9	NE POLE RECEPT	2	20	1	0.36	0.34				SW LIGHT POLES	10
11	NE POLE RECEPT	2	20	1		0.36	0.34				12
13	NE POLE RECEPT	2	20	1	0.36	0.64				NW LIGHT POLES	14
15	SW POLE RECEPT	3	20	1		0.54	0.64				16
17	SW POLE RECEPT	3	20	1	0.54	0.00					18
19	SW POLE RECEPT	3	20	1		0.54	0.00				20
21	NW POLE RECEPT	3	20	1	0.36	0.00					22
23	NW POLE RECEPT	3	20	1		0.36	0.00				24
25	SPARE		20	1	0.00	0.00		1	20	SPARE	26
27	SPARE		20	1		0.00	0.05		1	LIGHTING CONTROLS	28
29	SPARE		20	1	0.00	0.18		1	20	PANEL RECEPT	30
TOTAL PER PHASE:					KVA	4.08	3.95	KVA			
TOTAL CONNECTED LOAD:					KVA	8.02	66.87	AMPS			
FEEDER DEMAND LOAD:					KVA	7.86	65.47	AMPS			
NOTES											
1 - ROUTE CIRCUIT VIA CONTACTOR "LC1"											
2 - ROUTE CIRCUIT VIA CONTACTOR "RC1"											
3 - ROUTE CIRCUIT VIA CONTACTOR "RC2"											

POWER SERVICE DATA						
POWER SERVICE	LINE VOLTAGE (VOLTS)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CABLE (AWG)	ENCLOSURE RATING (AMPS)	CIRCUIT LOAD (AMPS)	CIRCUIT BREAKER SIZE (AMPS)
LP-S	240/120, 1P, 3W	10.9	2#1/0, 1#6G	225	90.6	150

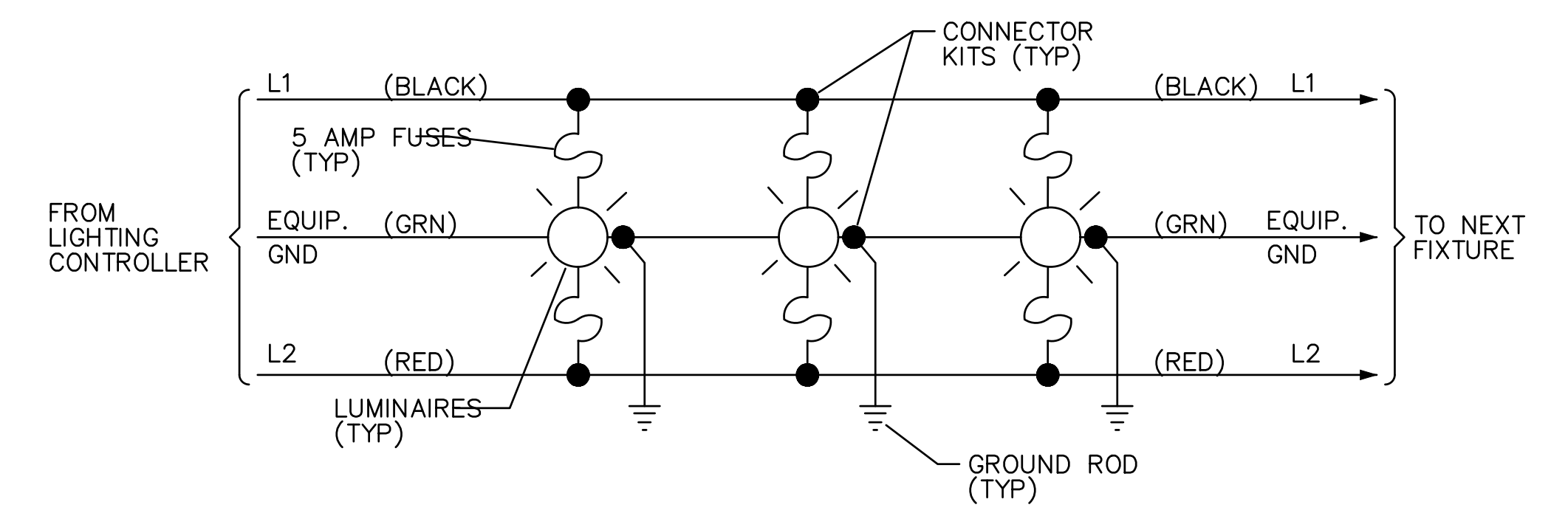
DUKE ENERGY TO PROVIDE PRIMARY CABLING FROM POLE MOUNTED TRANSFORMER TO METER. ELECTRICAL CONTRACTOR TO PROVIDE PRIMARY AND SECONDARY SERVICE CONDUIT ALONG WITH SECONDARY SERVICE CABLE.



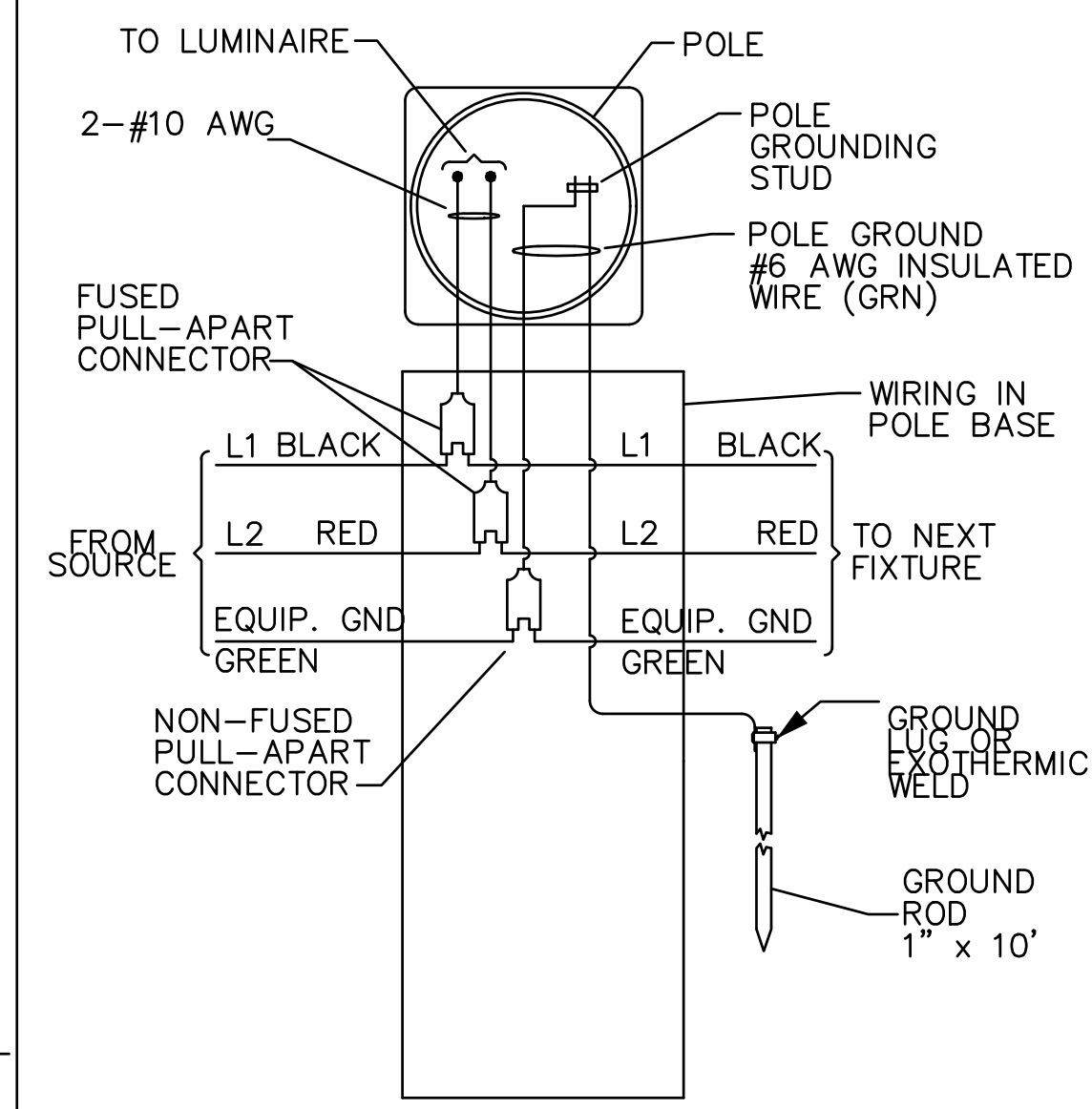
BOLLARD LIGHT—TYPE "B"
BASIS OF DESIGN



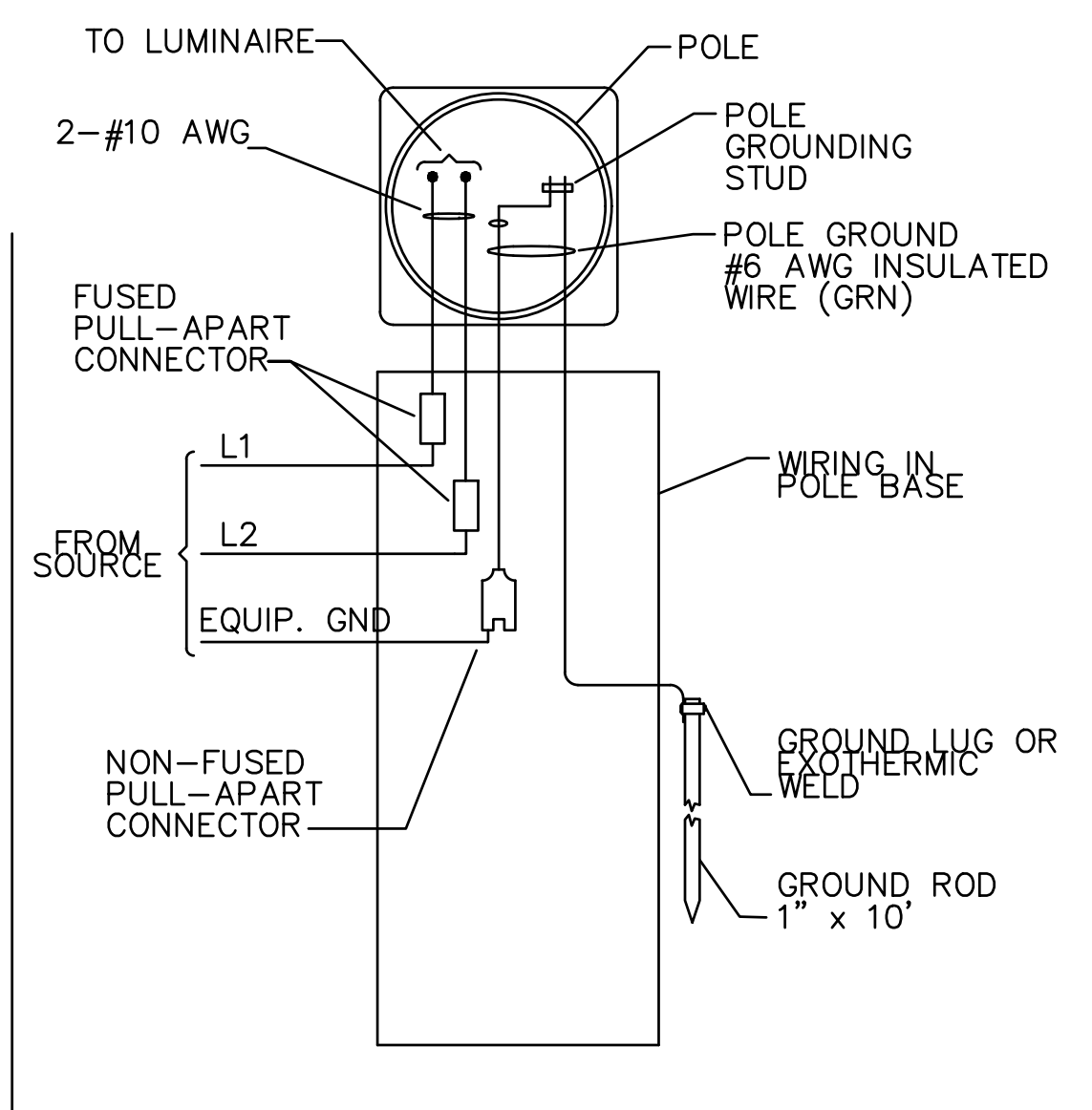
GROUNDING OF STEEL CONDUIT
no scale



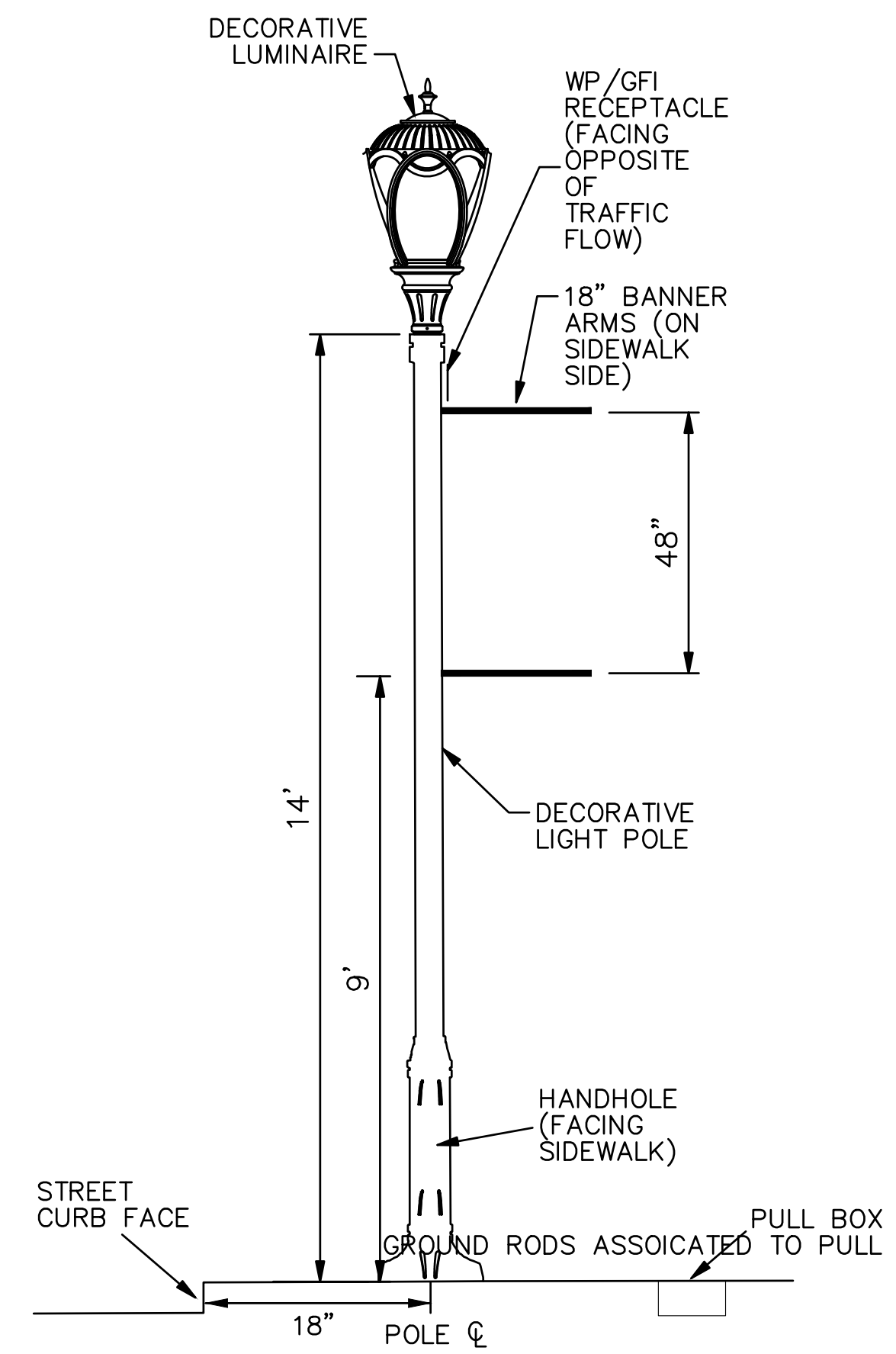
TYPICAL CIRCUIT WIRING SCHEMATIC



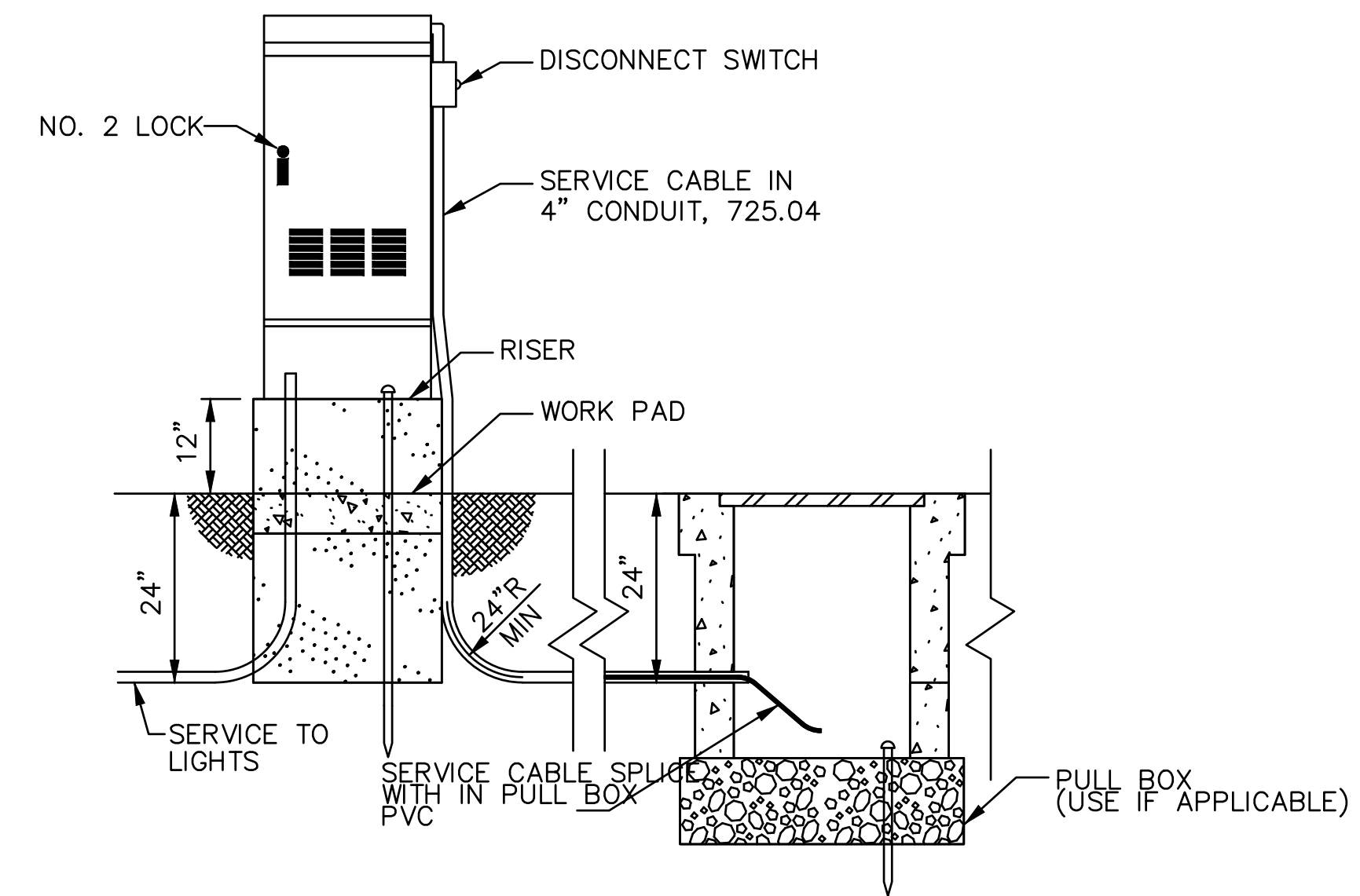
WIRING DIAGRAM
WIRING IN POLE BASE



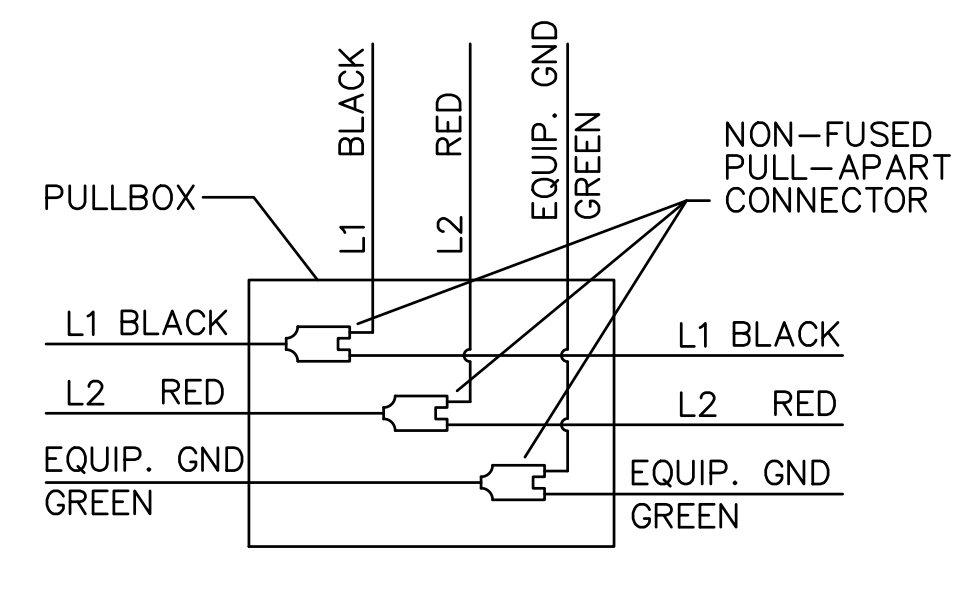
WIRING DIAGRAM
POLE WIRING AT END OF LINE



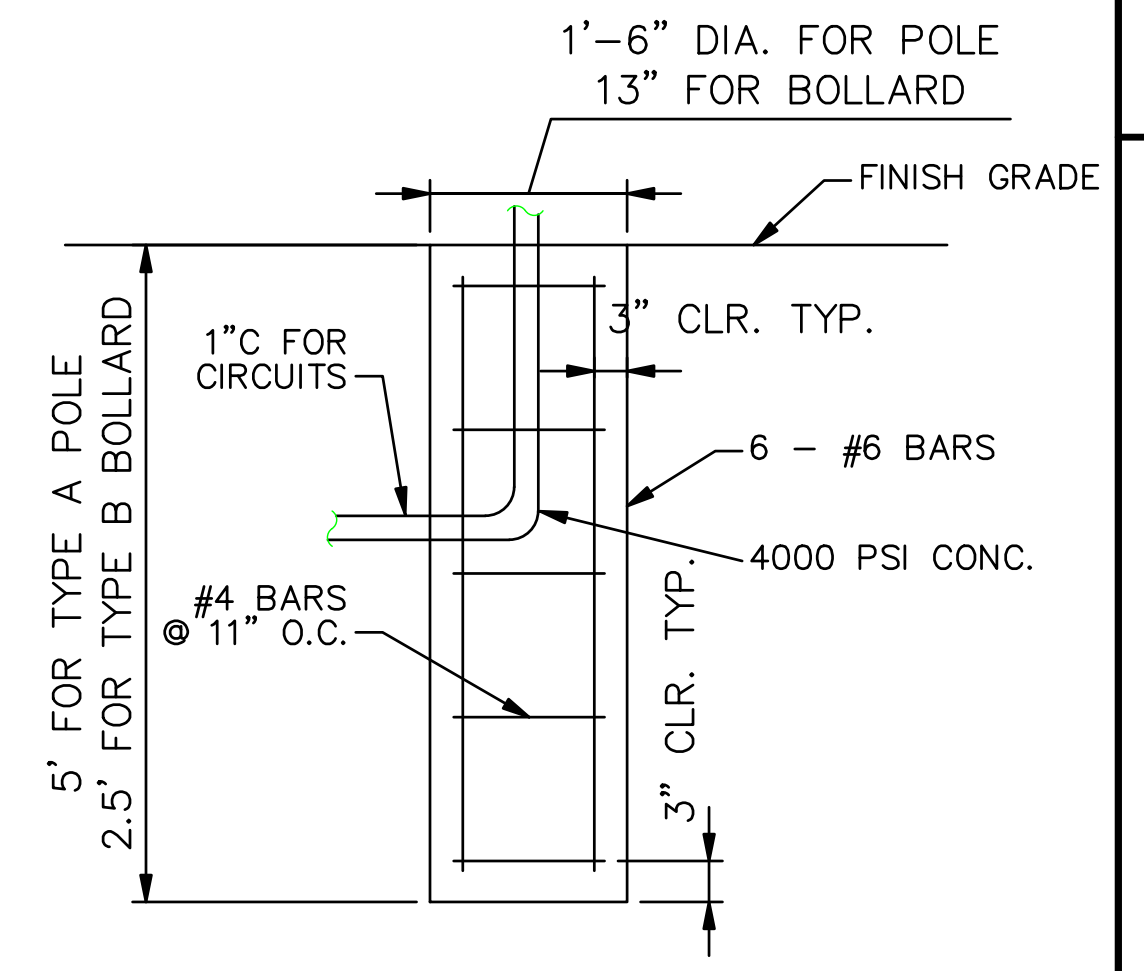
LIGHTING POLE AND FIXTURE — TYPE "A"
BASIS OF DESIGN



GROUND MOUNTED POWER SERVICE DETAIL
no scale



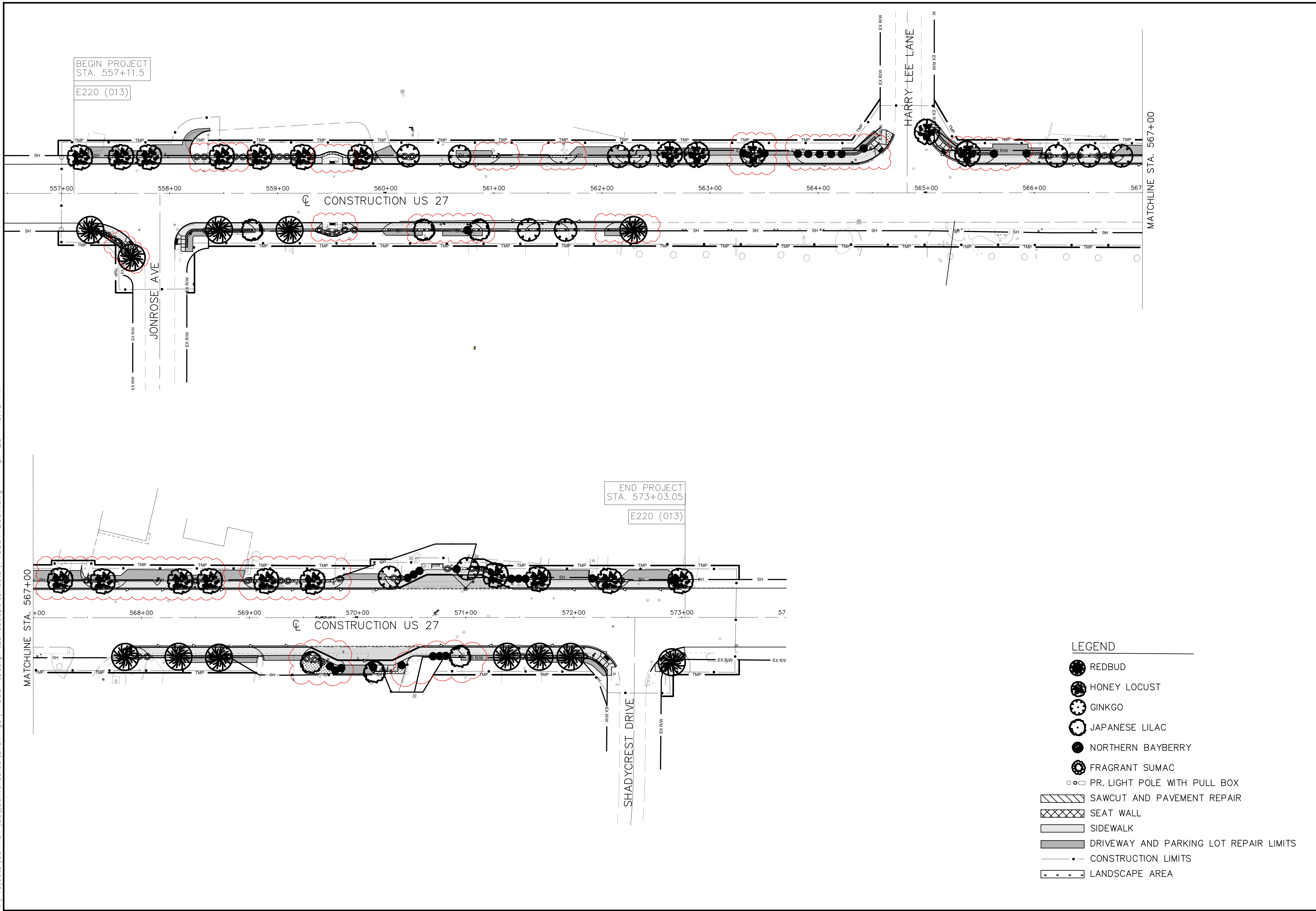
WIRING DIAGRAM
3-WAY SPLICE IN A PULLBOX



FOUNDATION DETAIL FOR TYPE "A" & "B"

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BEGIN PROJECT
STA. 557+11.5
E220 (013)

END PROJECT
STA. 573+03.05
E220 (013)

- LEGEND**
- REDBUD
 - HONEY LOCUST
 - GINKGO
 - JAPANESE LILAC
 - NORTHERN BAYBERRY
 - FRAGRANT SUMAC
 - PR. LIGHT POLE WITH PULL BOX
 - SAWCUT AND PAVEMENT REPAIR
 - SEAT WALL
 - SIDEWALK
 - DRIVEWAY AND PARKING LOT REPAIR LIMITS
 - CONSTRUCTION LIMITS
 - LANDSCAPE AREA

0 20 40
HORIZONTAL
SCALE IN FEET

CALCULATED

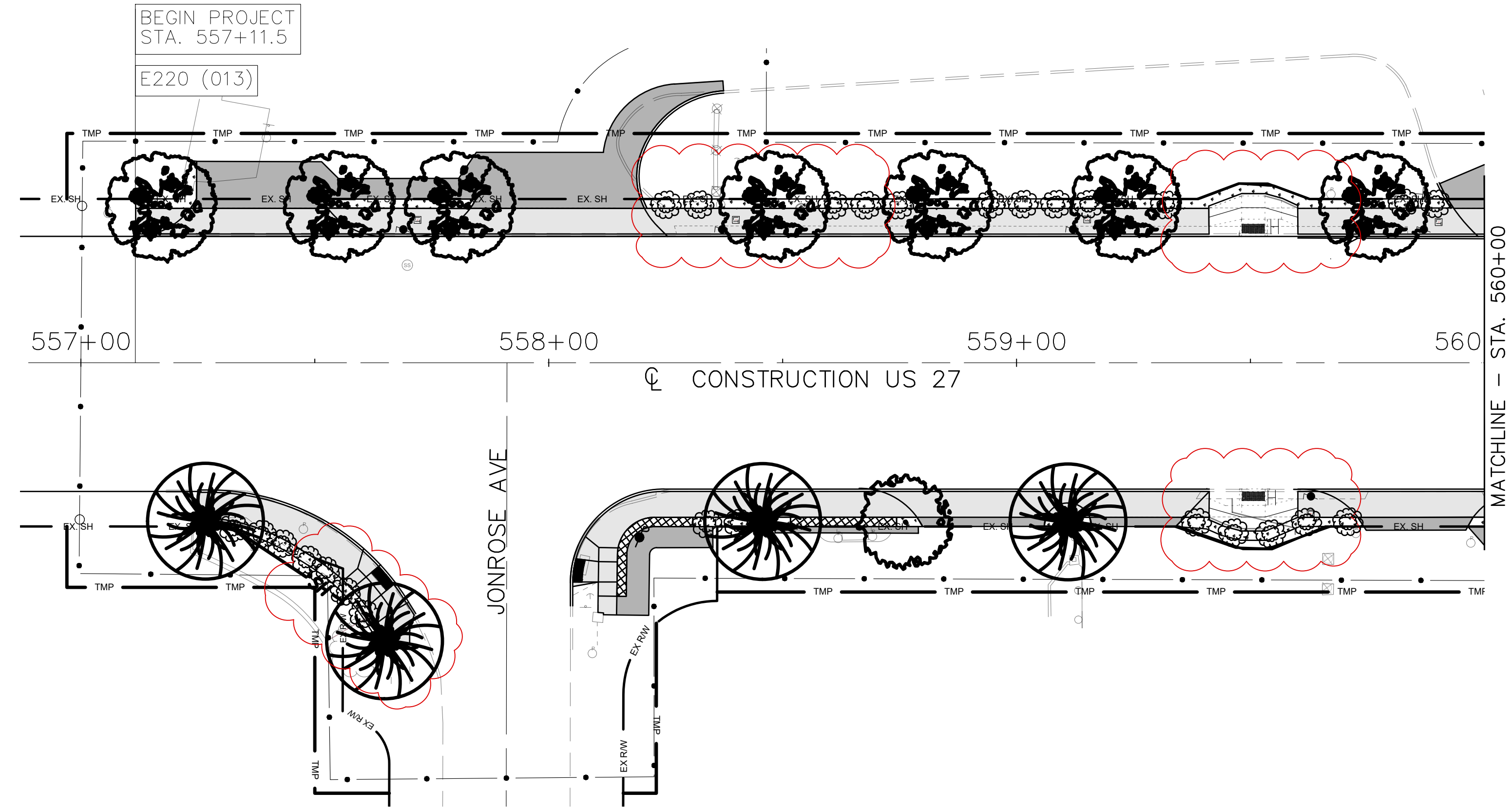
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LANDSCAPE SCHEMATIC PLAN

HAM-27-11.09

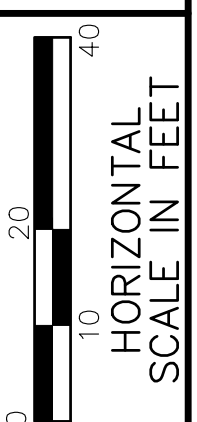
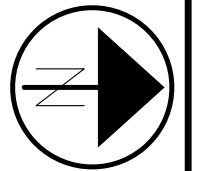
66

98



LEGEND

- REDBUD
- HONEY LOCUST
- GINKGO
- JAPANESE LILAC
- NORTHERN BAYBERRY
- FRAGRANT SUMAC
- PR. LIGHT POLE
- PR. LIGHT BOLLARD
- PR. PULL BOX
- SAWCUT AND PAVEMENT REPAIR
- SEAT WALL
- SIDEWALK
- DRIVEWAY AND PARKING LOT REPAIR LIMITS
- CONSTRUCTION LIMITS
- LANDSCAPE AREA



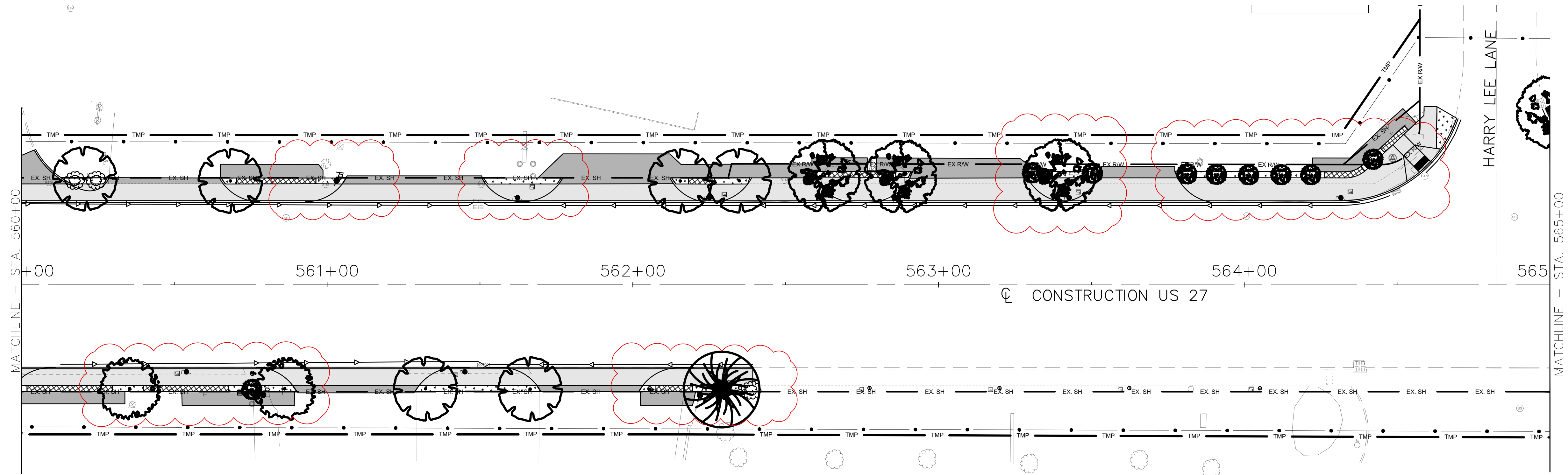
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LANDSCAPE PLAN US27
STA. 557+00 TO STA. 560+00

HAM-27-11.09

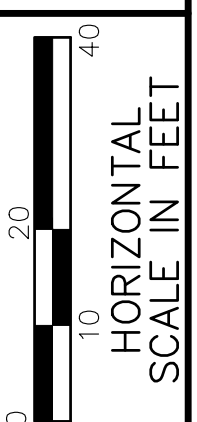
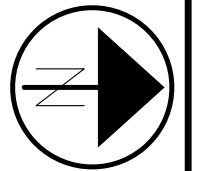
1 / 4

67 / 98



LEGEND

- REDBUD
- HONEY LOCUST
- GINKGO
- JAPANESE LILAC
- NORTHERN BAYBERRY
- FRAGRANT SUMAC
- PR. LIGHT POLE
- ⊕ PR. LIGHT BOLLARD
- PR. PULL BOX
- ▨ SAWCUT AND PAVEMENT REPAIR
- ▩ SEAT WALL
- ▭ SIDEWALK
- ▭ DRIVEWAY AND PARKING LOT REPAIR LIMITS
- CONSTRUCTION LIMITS
- ▭ LANDSCAPE AREA



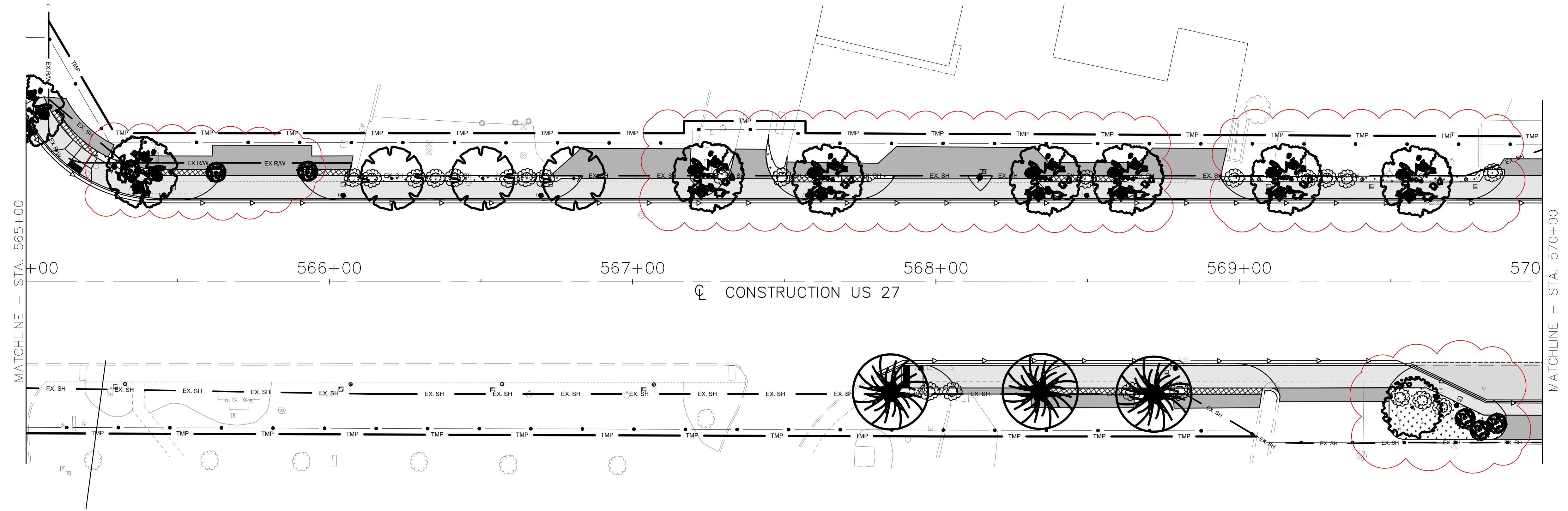
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LANDSCAPE PLAN US27
STA. 565+00 TO STA. 570+00

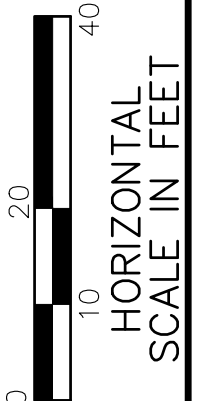
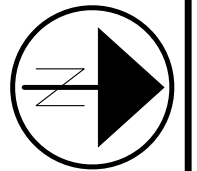
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2 / 4

68 / 98



- LEGEND**
- REDBUD
 - HONEY LOCUST
 - GINKGO
 - JAPANESE LILAC
 - NORTHERN BAYBERRY
 - FRAGRANT SUMAC
 - PR. LIGHT POLE
 - ⊕ PR. LIGHT BOLLARD
 - ▣ PR. PULL BOX
 - ▨ SAWCUT AND PAVEMENT REPAIR
 - ▩ SEAT WALL
 - ▭ SIDEWALK
 - ▭ DRIVEWAY AND PARKING LOT REPAIR LIMITS
 - CONSTRUCTION LIMITS
 - ▭ LANDSCAPE AREA



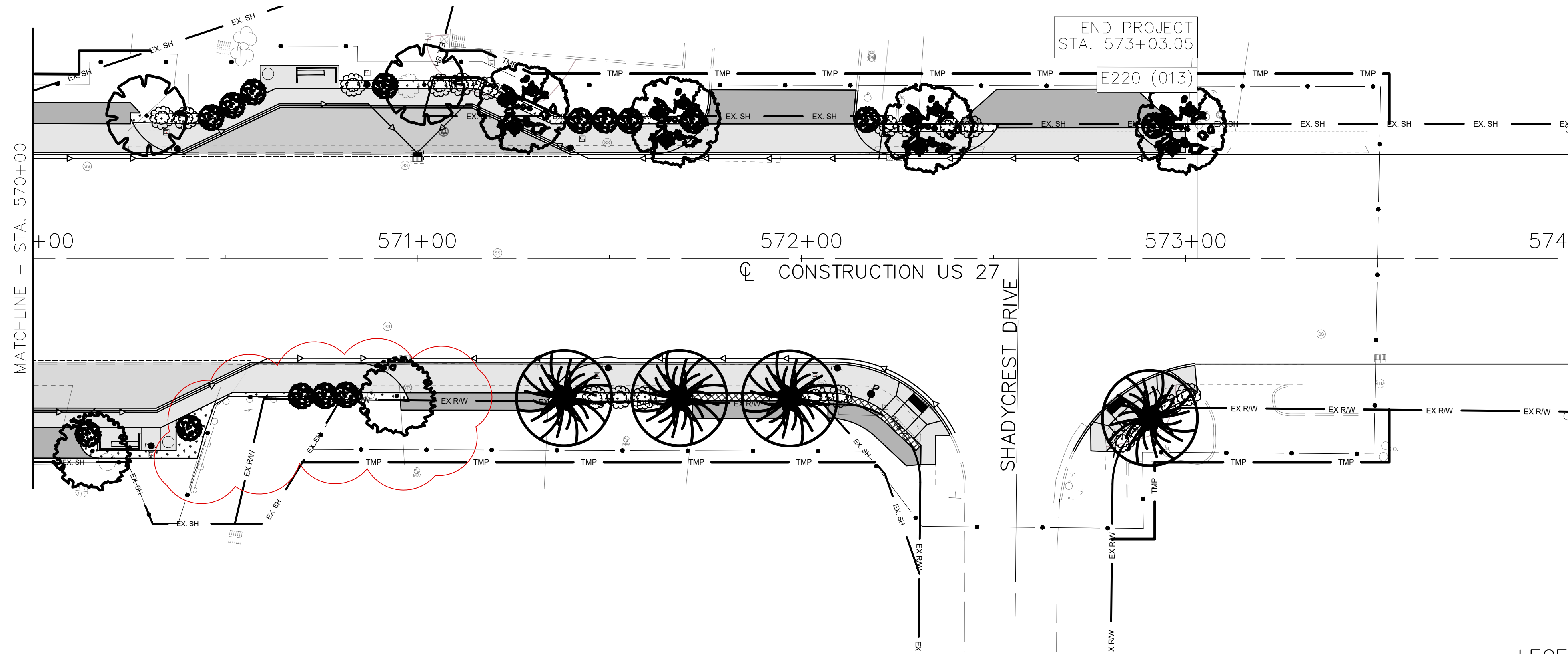
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LANDSCAPE PLAN US27
STA. 565+00 TO STA. 570+00

HAM-27-11.09

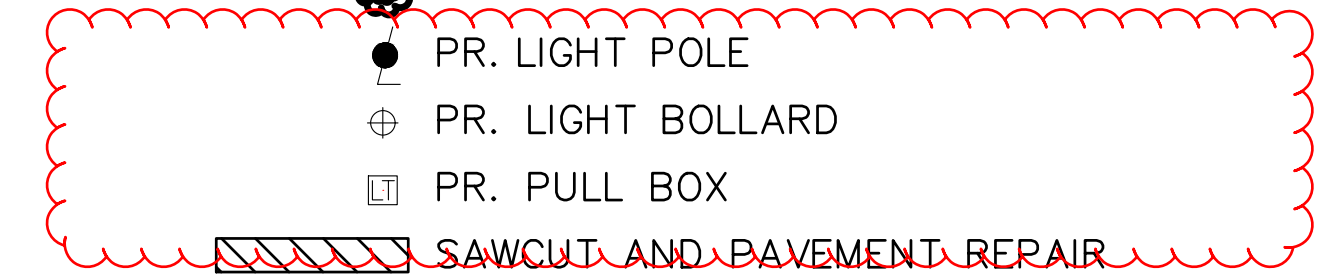
3 / 4

69 / 98

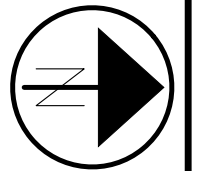


LEGEND

- REDBUD
- HONEY LOCUST
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- NORTHERN BAYBERRY
- FRAGRANT SUMAC
- PR. LIGHT POLE
- ⊕ PR. LIGHT BOLLARD
- ▣ PR. PULL BOX



- ▨ SAWCUT AND PAVEMENT REPAIR
- ▨ SEAT WALL
- ▨ SIDEWALK
- ▨ DRIVEWAY AND PARKING LOT REPAIR LIMITS
- CONSTRUCTION LIMITS
- ▭ LANDSCAPE AREA



DRAWN GM
CHECKED SCR

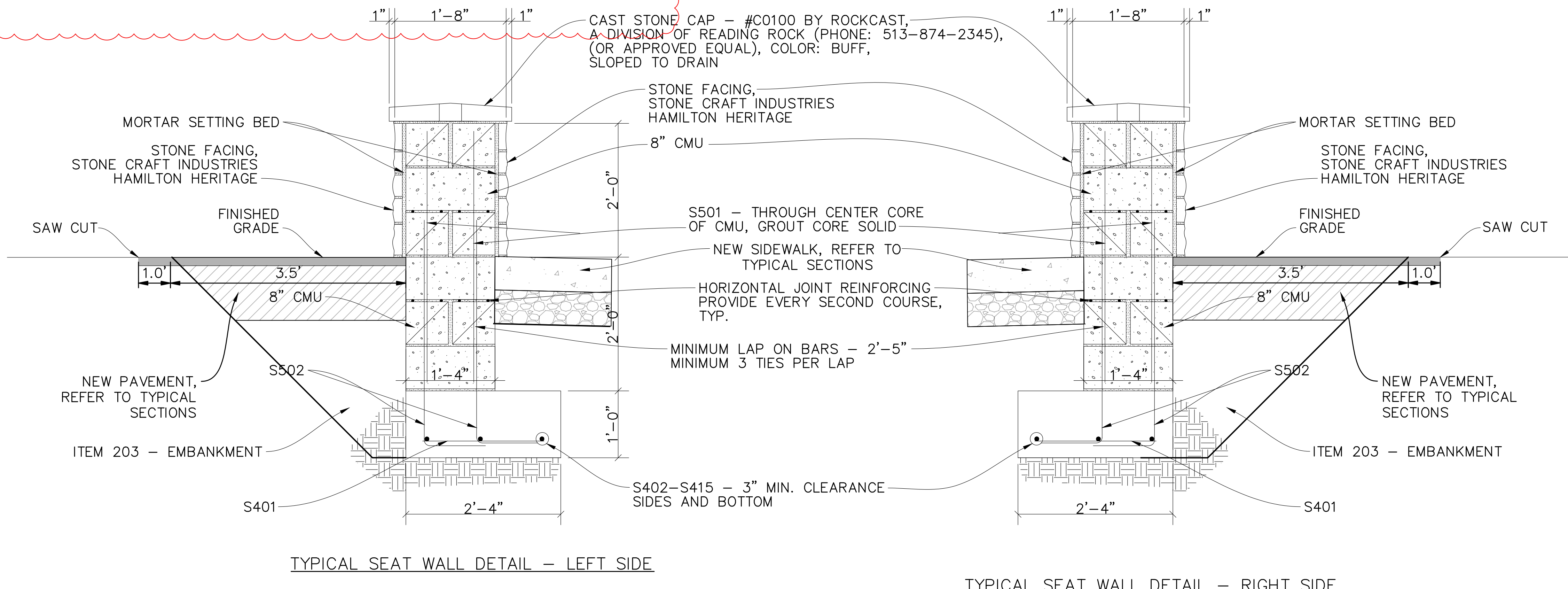
LANDSCAPE PLAN US27
STA. 570+00 TO STA. 574+00

HAM-27-11.09

4 / 4

70 / 98

ESTIMATED QUANTITIES					
ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	SEE SHEET
203	20000	117.37	CY	EMBANKMENT	
503	21100	165.31	CY	UNCLASSIFIED EXCAVATION	
203	10001	8.46	CY	EXCAVATION, AS PER PLAN	
509	10000	3578	POUNDS	EPOXY COATED REINFORCING STEEL	
511	46510	32.85	CY	CLASS QC1 CONCRETE, FOOTING	
602	15001	94.18	CY	BLOCK MASONRY, AS PER PLAN	67
602	97000	1662.95	SF	MASONRY, MISC.: CAST STONE FACING	67
602	98100	391.17	FT	MASONRY, MISC.: CAST STONE CAP	67

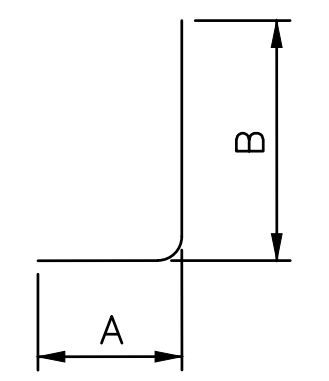


TYPICAL SEAT WALL DETAIL - LEFT SIDE

TYPICAL SEAT WALL DETAIL - RIGHT SIDE

MARK	TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
SEAT WALL											
S501	327	3'-8"	1202	STR							
S502	327	4'-3"	1450	1	0'-11"	3'-4"					
S401	158	1'-10"	194	STR							
S402	3	25'-6"	51	STR							
S403	15	8'-2"	82	STR							
S404	3	21'-6"	43	STR							
S405	3	12'-2"	24	STR							
S406	6	10'-2"	41	STR							
S407	9	19'-6"	117	STR							
S408	9	27'-6"	165	STR							
S409	6	22'-6"	89	STR							
S411	3	11'-6"	23	STR							
S412	6	24'-2"	97	STR							
		TOTAL	3578								

SEAT WALL REINFORCING STEEL LIST



TYPE-1

BENDING DIAGRAMS

ITEM 602 - BLOCK MASONRY, AS PER PLAN

THIS ITEM SHALL INCLUDE PROVIDING AND INSTALLING BLOCK MASONRY FOR SEAT WALLS. ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO PERFORM THIS WORK, INCLUDING HORIZONTAL JOINT REINFORCING, MORTAR SETTING BED, AND GROUT CORE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - BLOCK MASONRY, AS PER PLAN.

ITEM 602 - MASONRY, MISC.: CAST STONE FACING

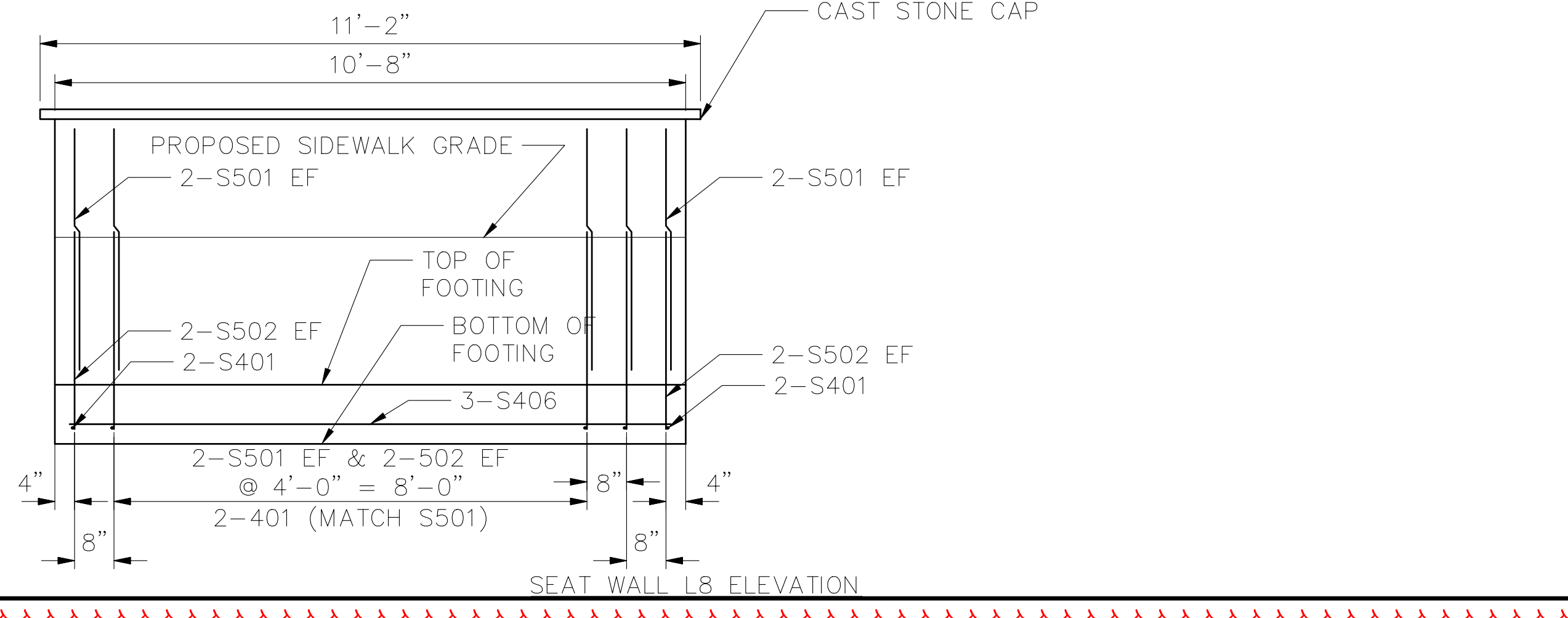
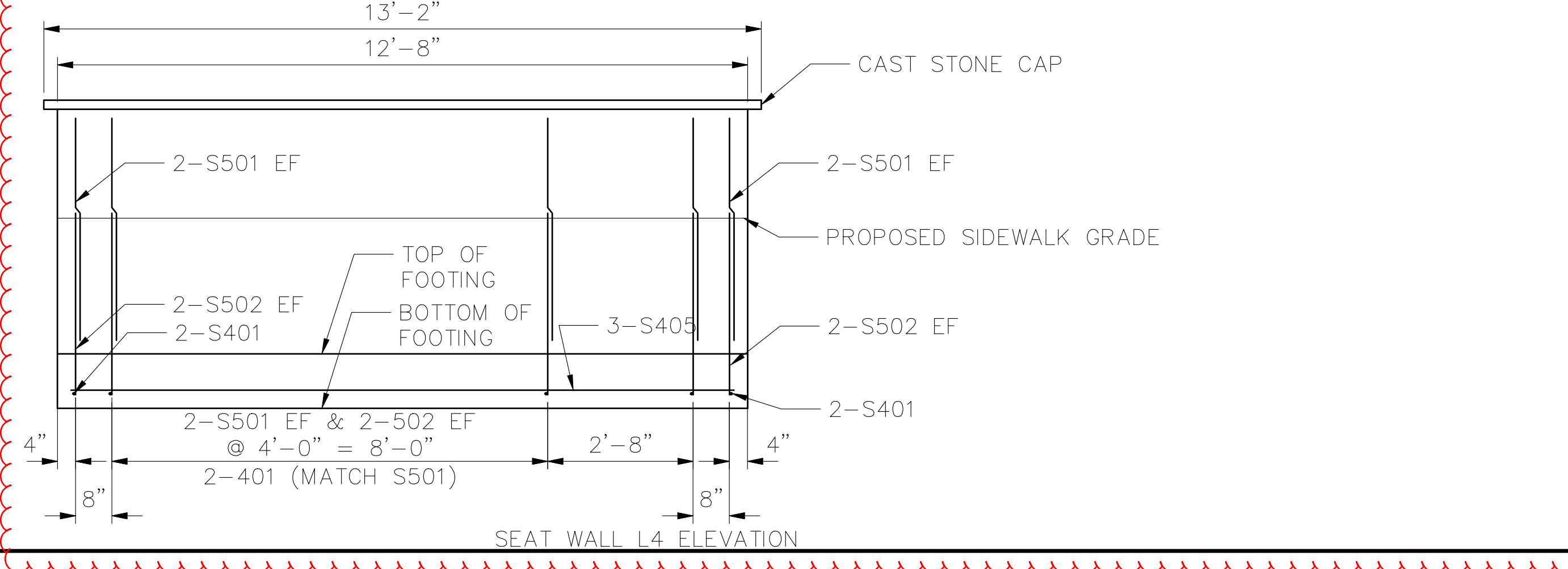
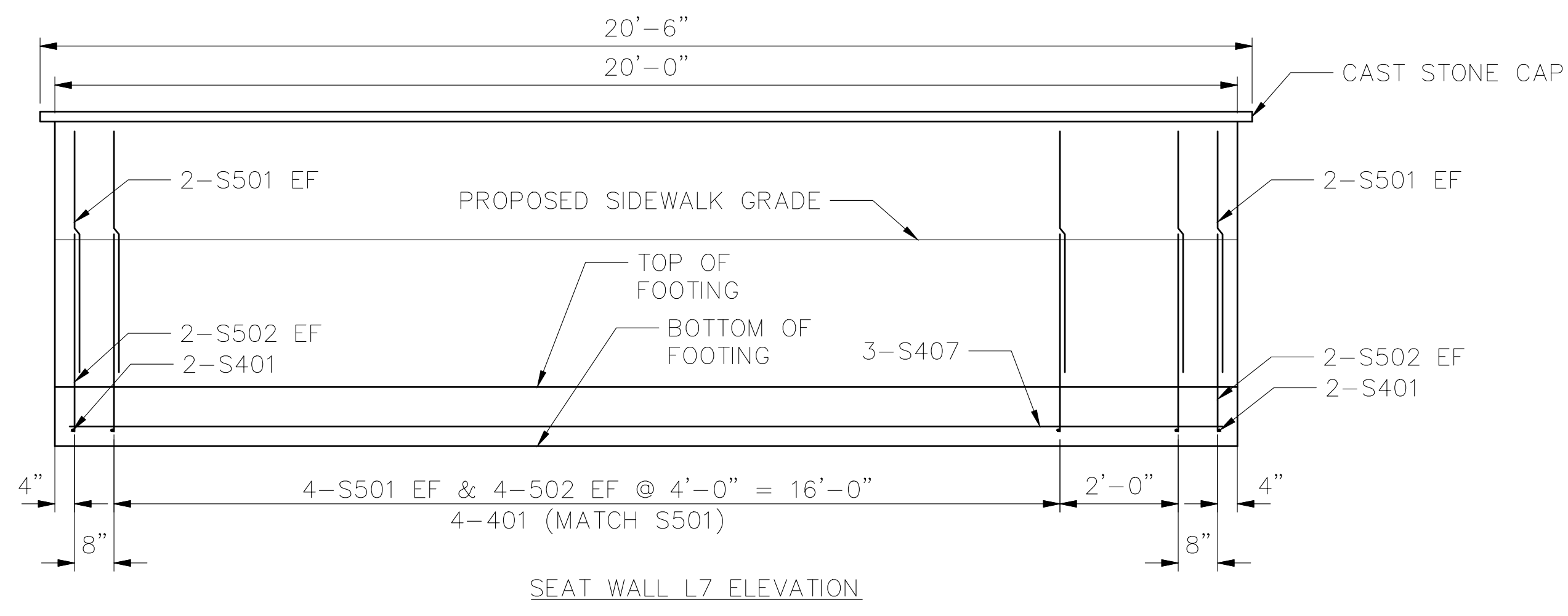
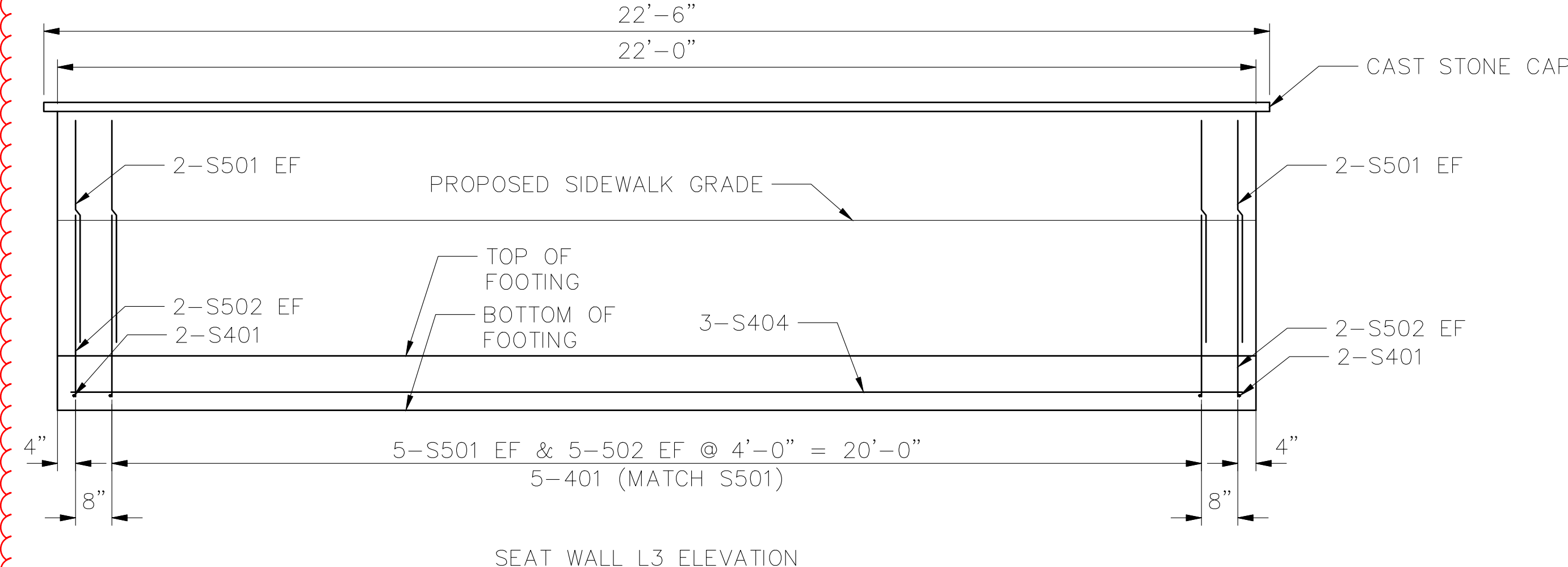
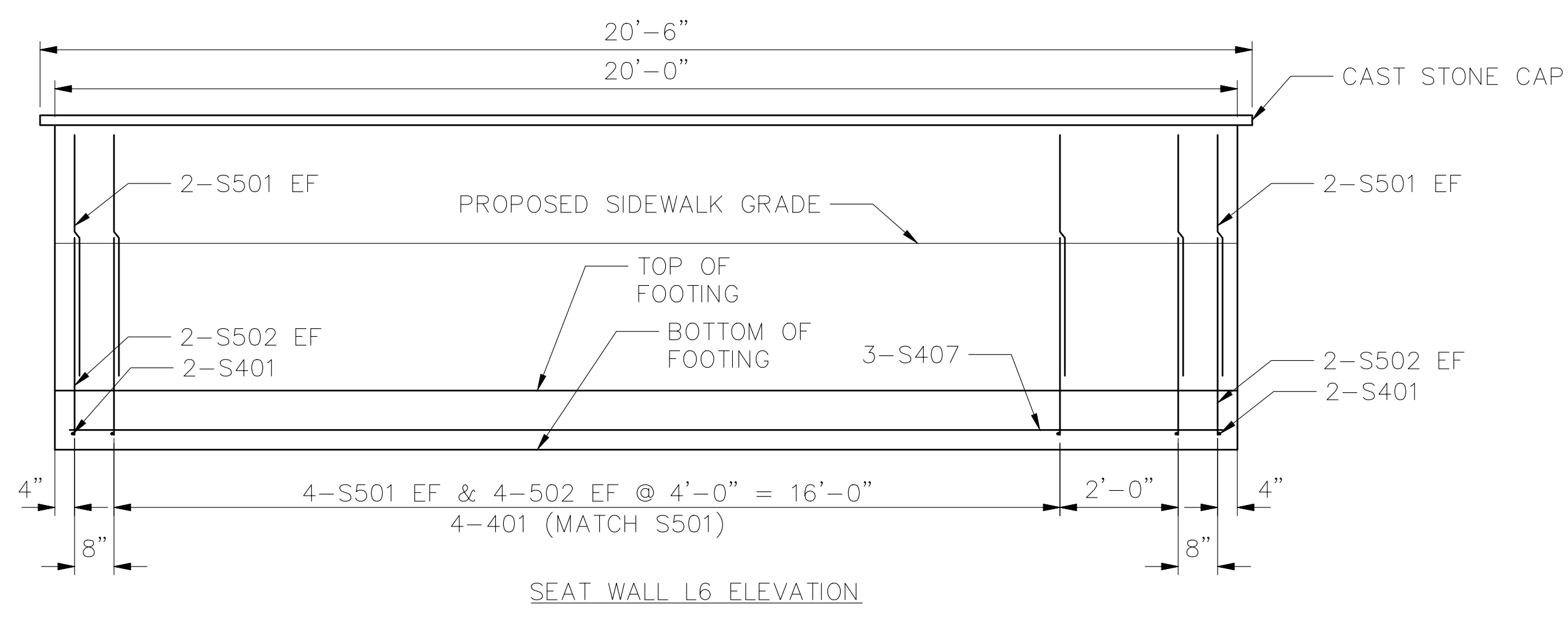
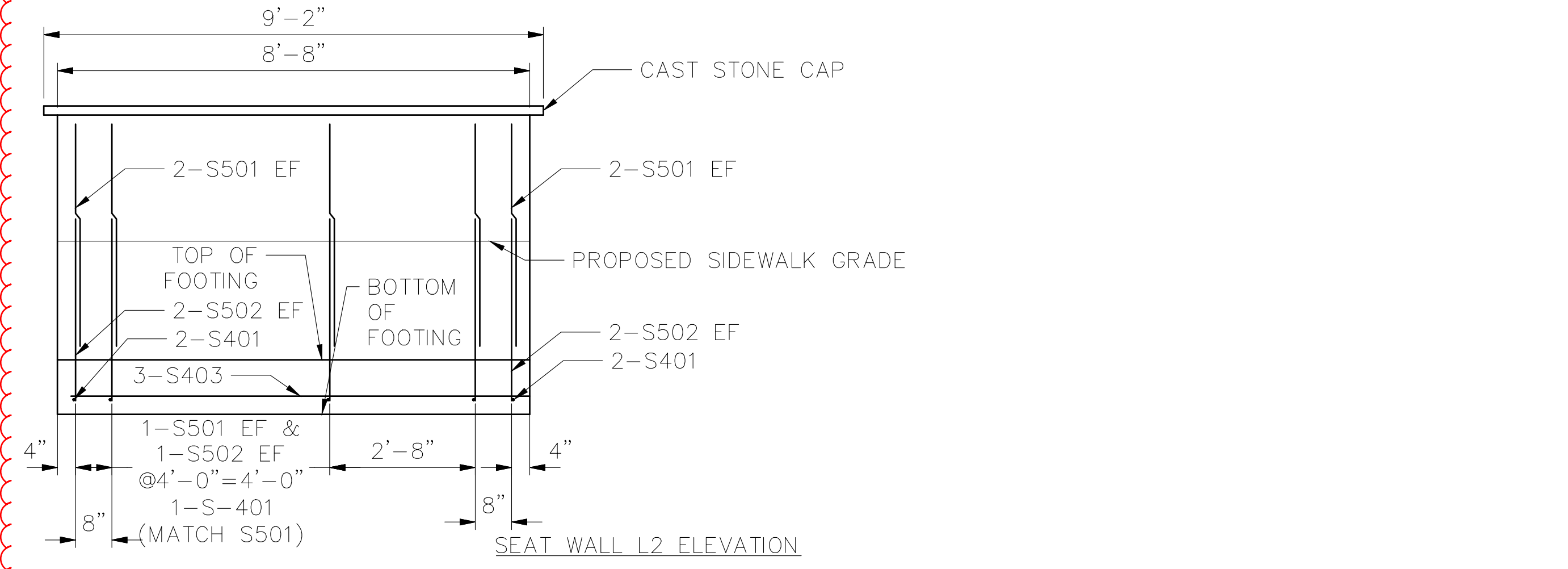
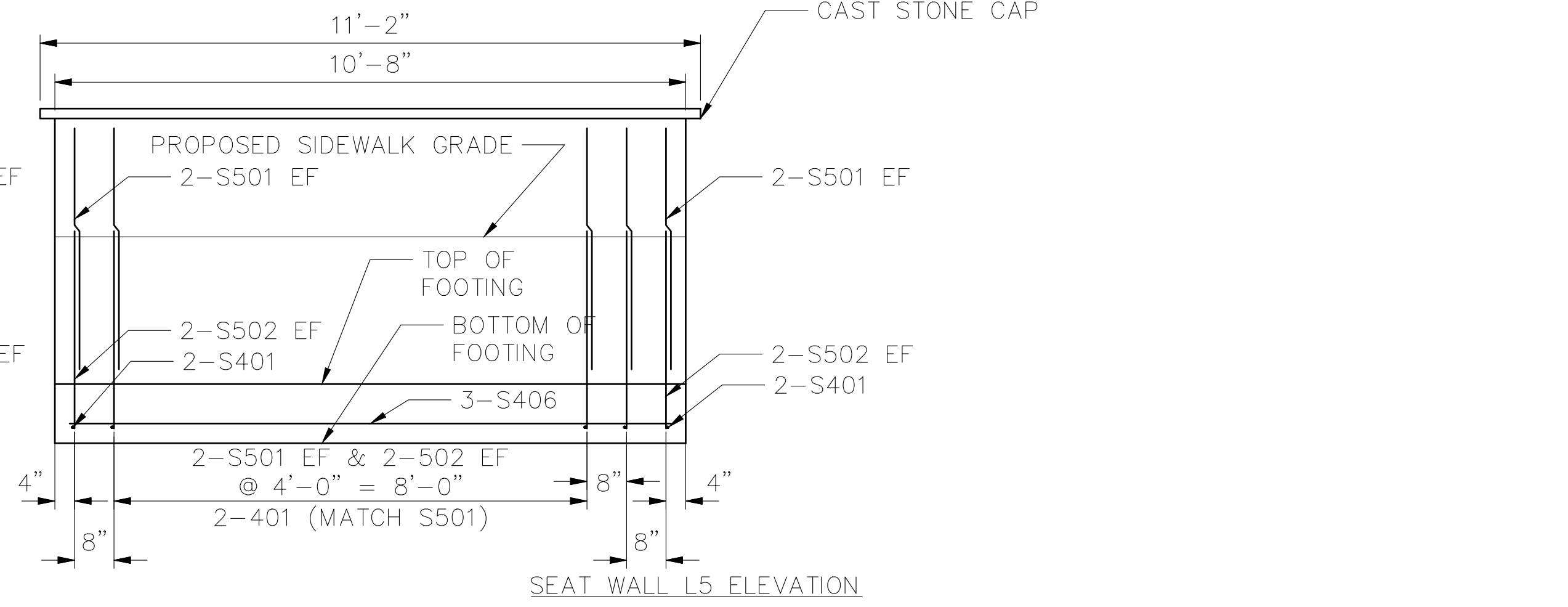
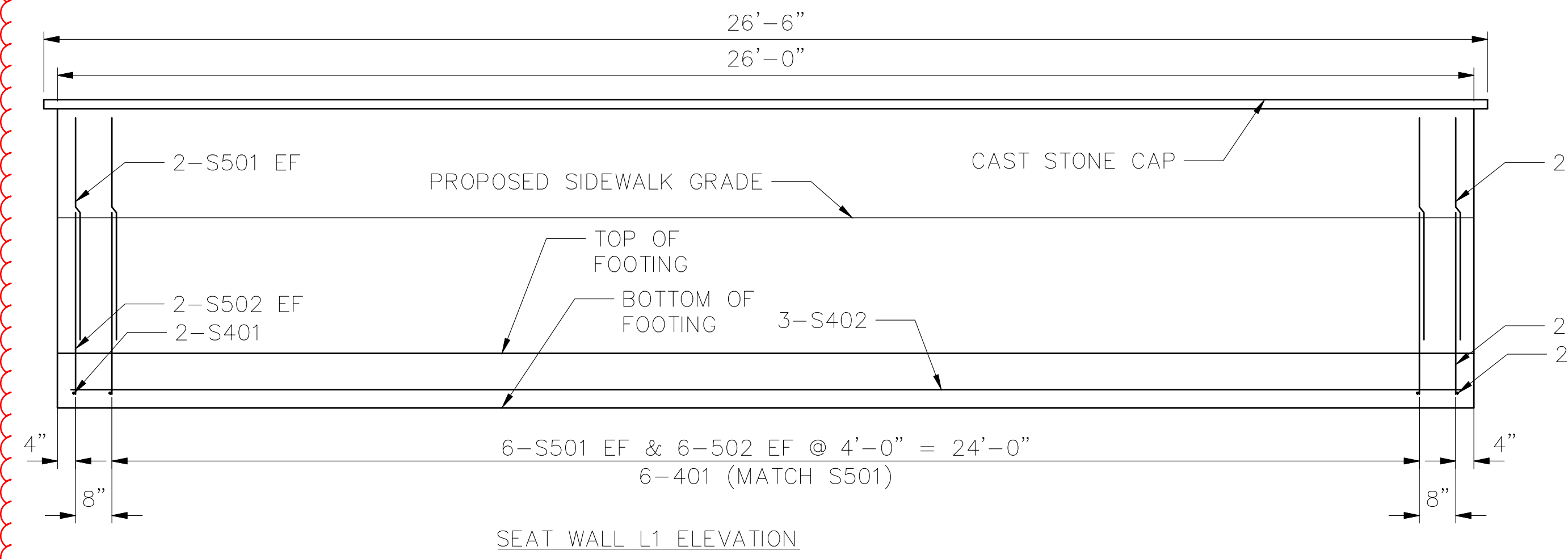
THIS ITEM SHALL INCLUDE PROVIDING AND INSTALLING CAST STONE FACING FOR SEAT WALLS. THE CAST STONE FACING SHALL BE BY STONE CRAFT INDUSTRIES HAMILTON HERITAGE, OR APPROVED EQUAL. THE CAST STONE FACING SHALL BE INSTALLED USING A MORTAR SETTING BED. ALL MATERIALS, LABOR AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - MASONRY, MISC.: CAST STONE FACING.

ITEM 602 - MASONRY, MISC.: CAST STONE CAP

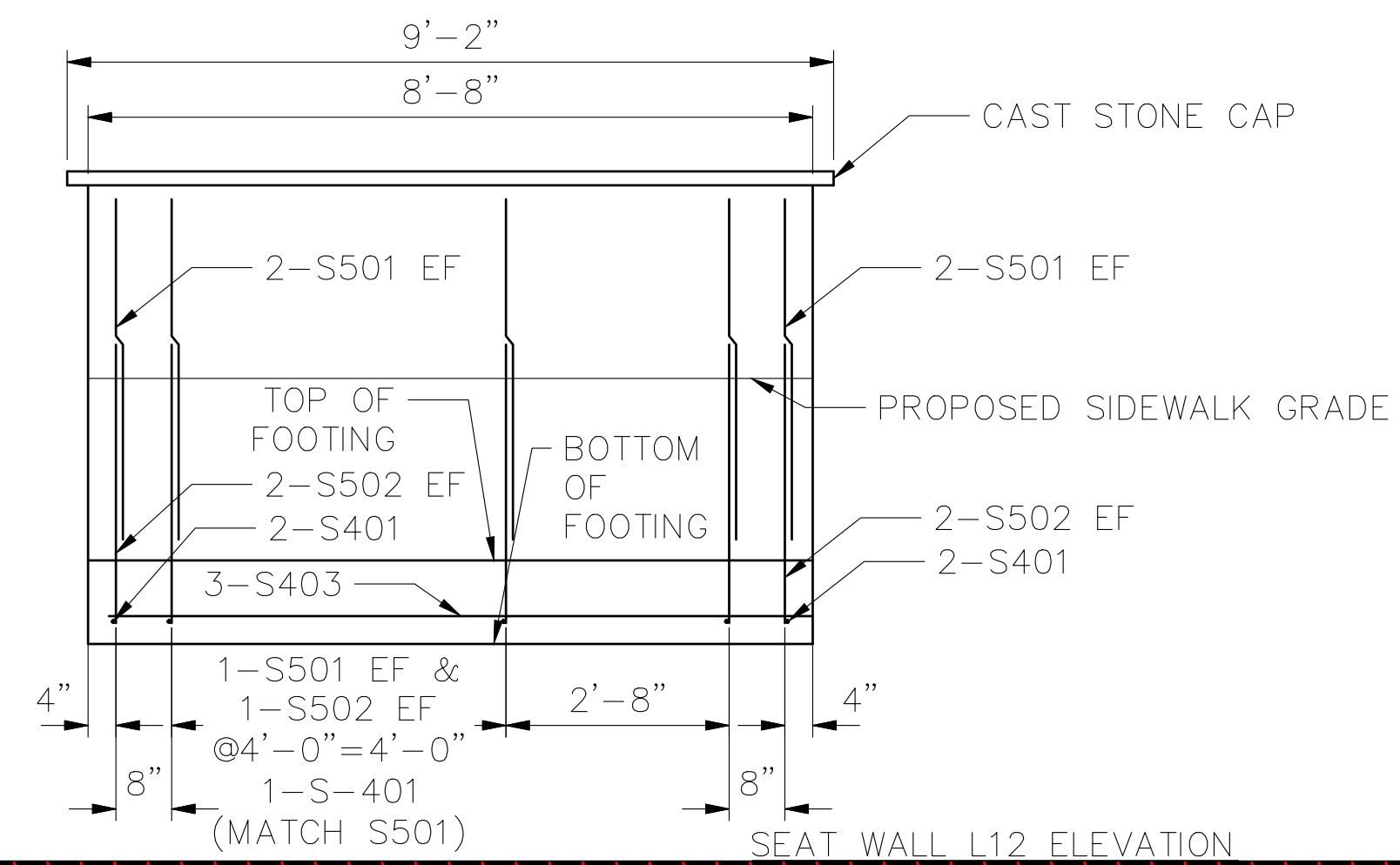
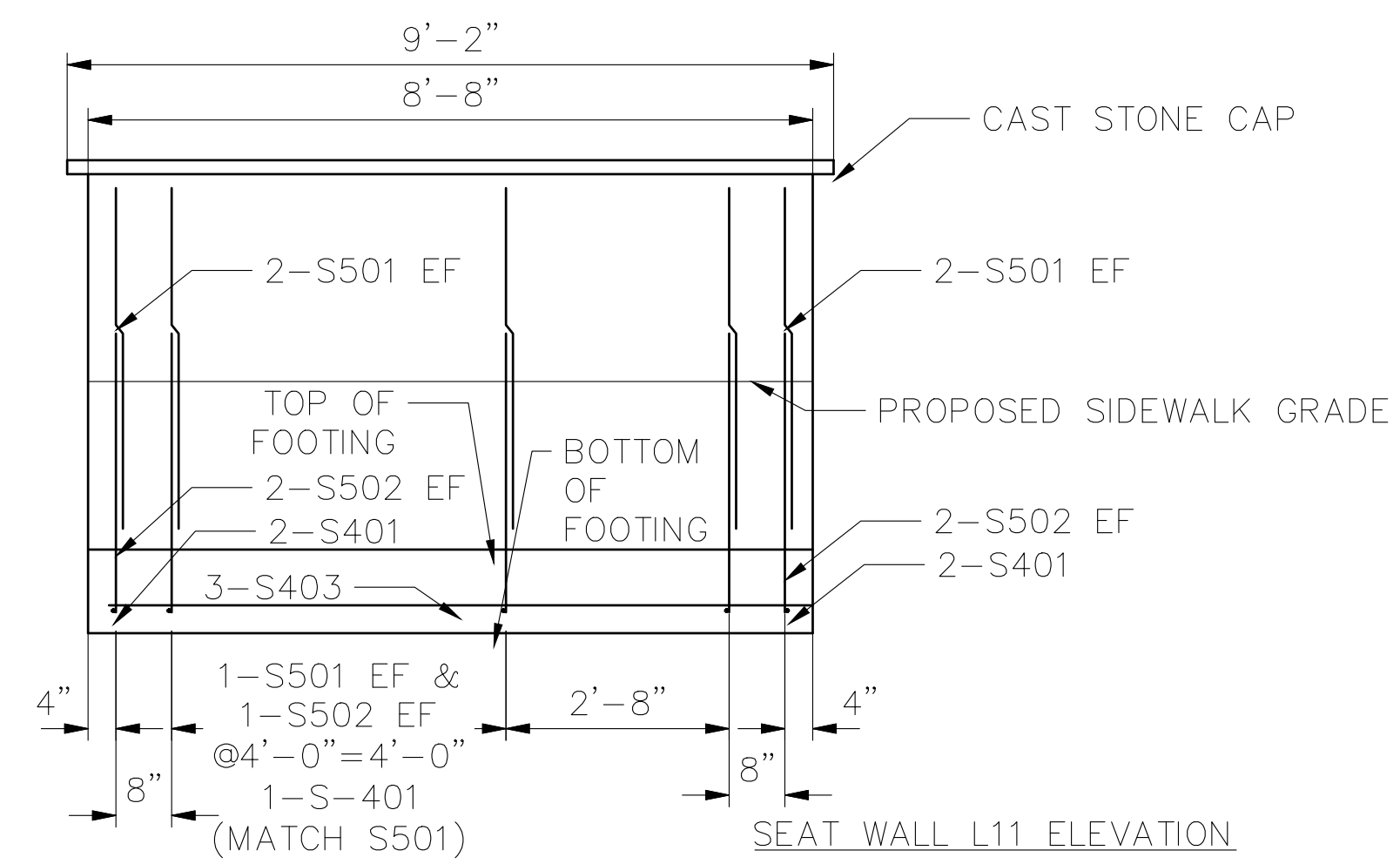
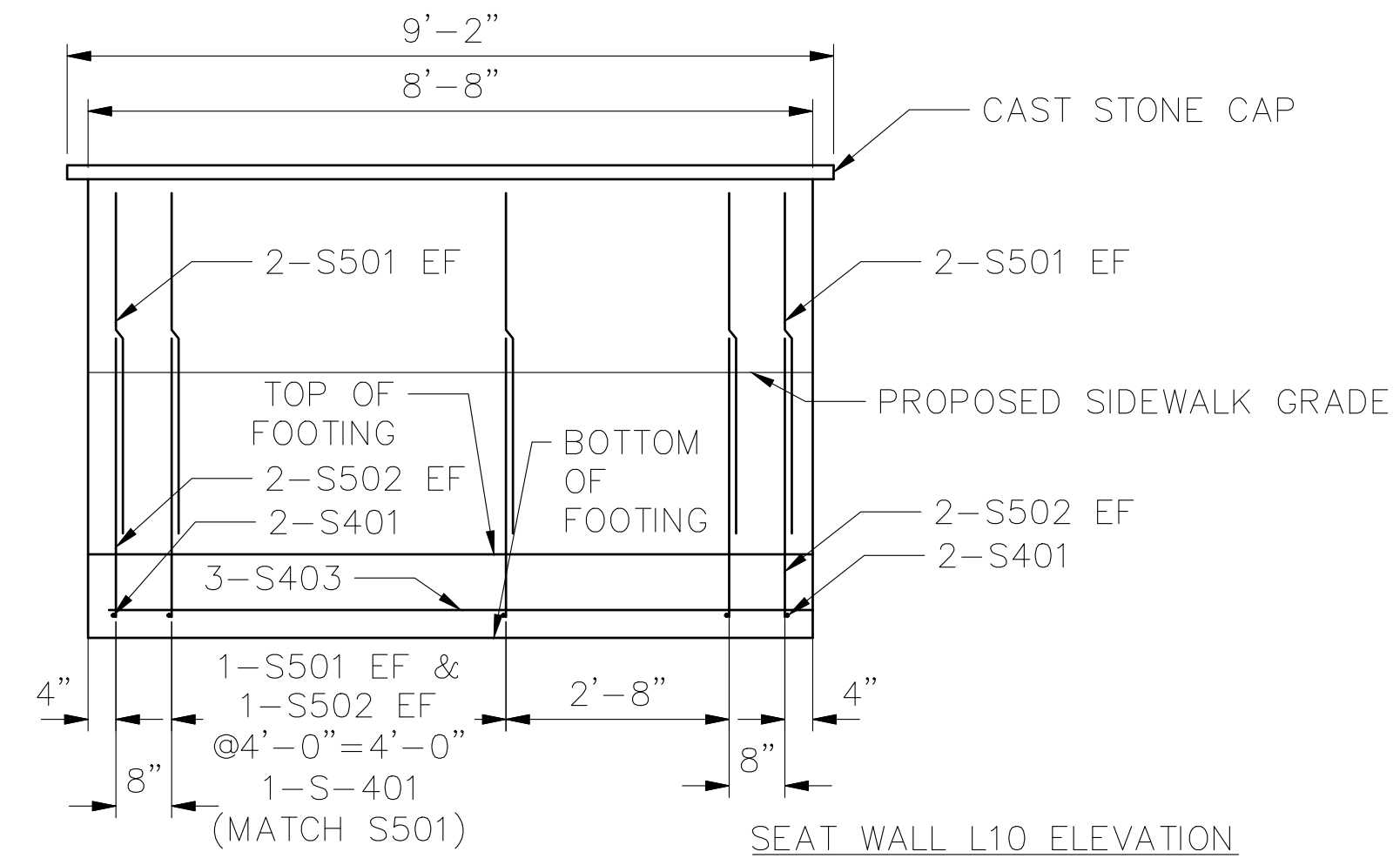
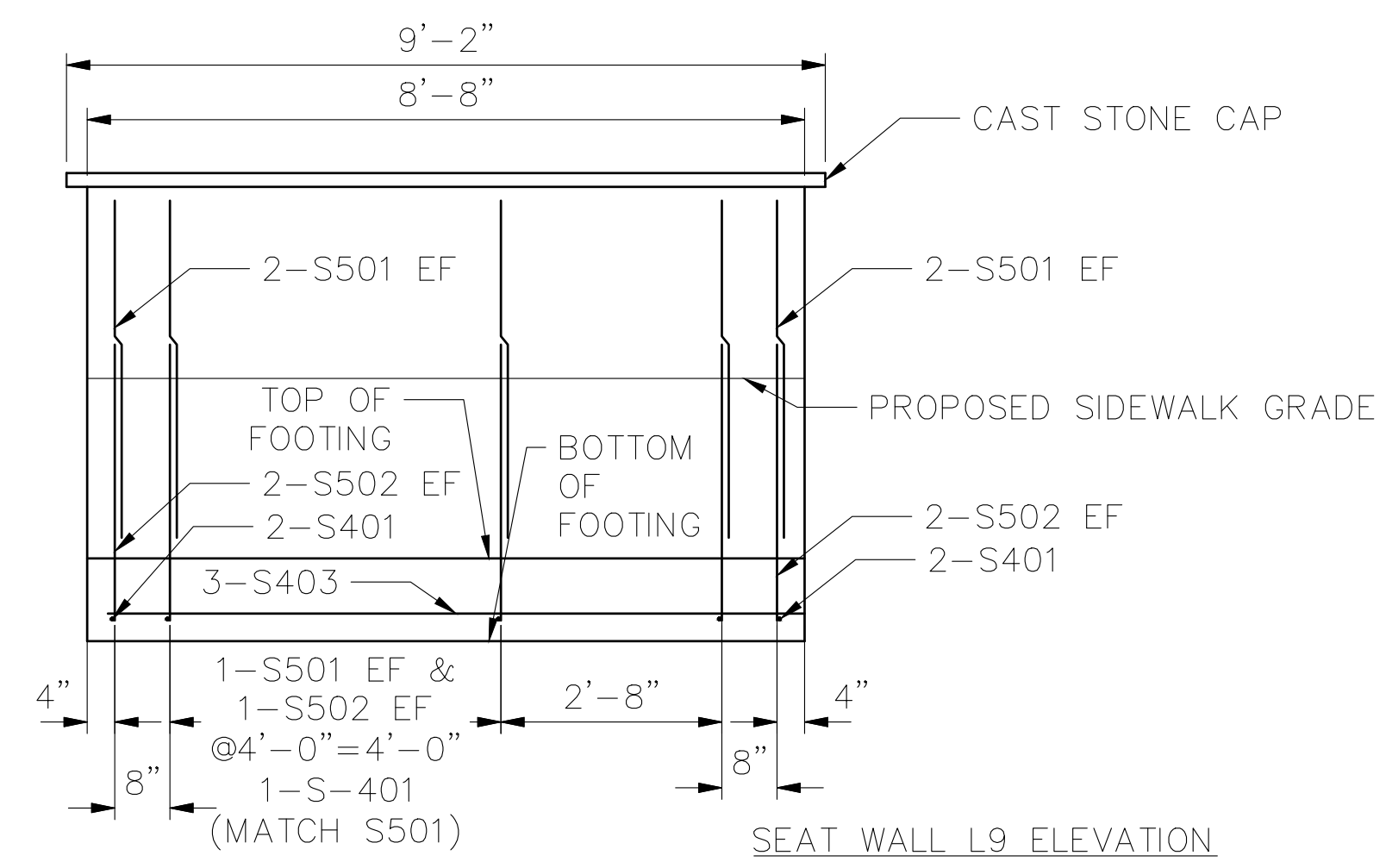
THIS ITEM SHALL INCLUDE PROVIDING AND INSTALLING CAST STONE CAPS FOR SEAT WALLS. THE CAST STONE CAP SHALL BE BY #C0100 BY ROCKCAST A DIVISION OF READING ROCK, OR APPROVED EQUAL; COLOR: BUFF. ALL MATERIALS, LABOR AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - MASONRY, MISC.: CAST STONE CAP.

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CALCULATED	SCR	CHECKED	MM
SEAT WALL ELEVATIONS			
HAM-27-11.09			
74		98	

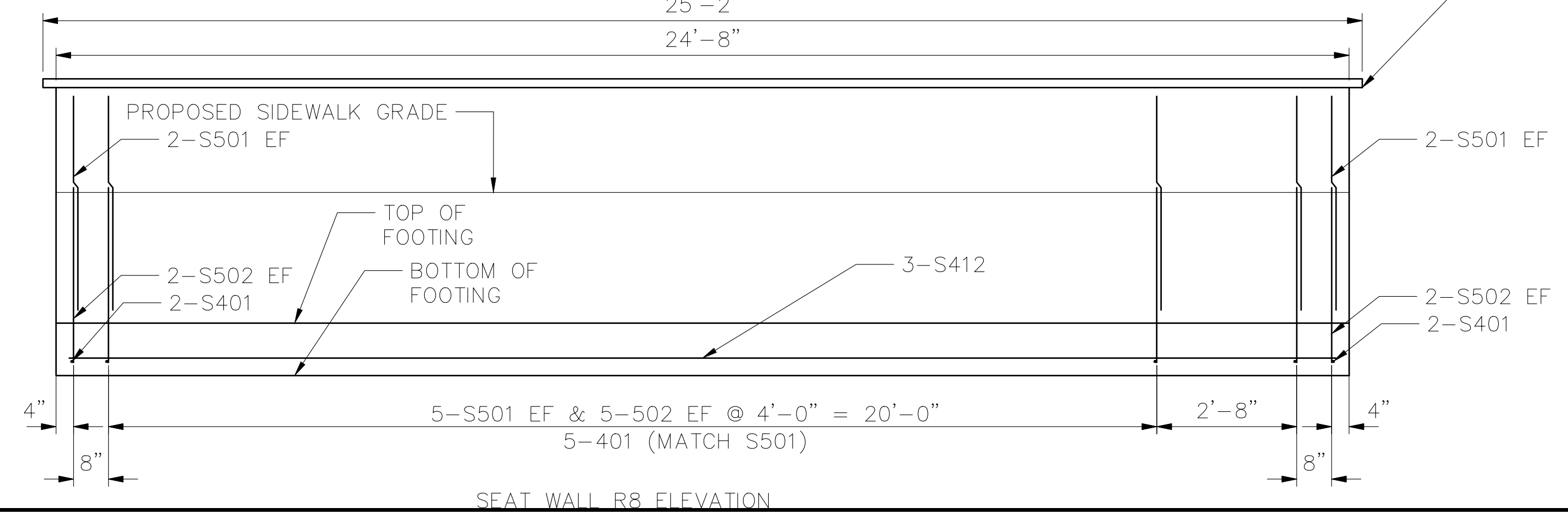
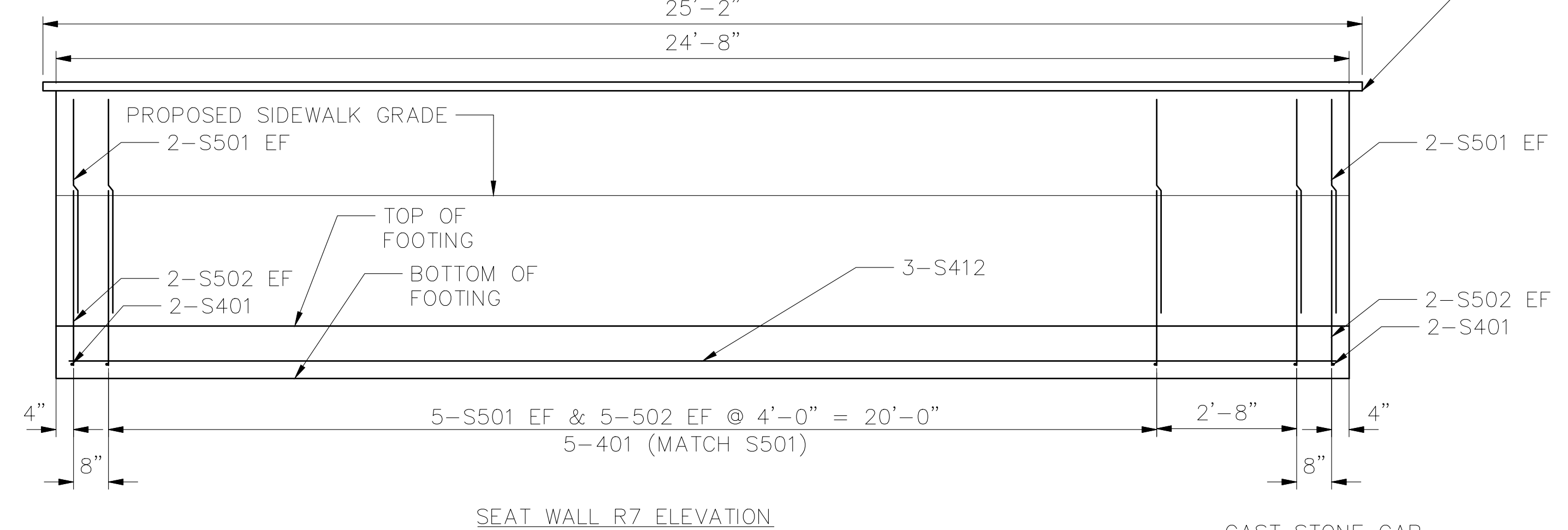
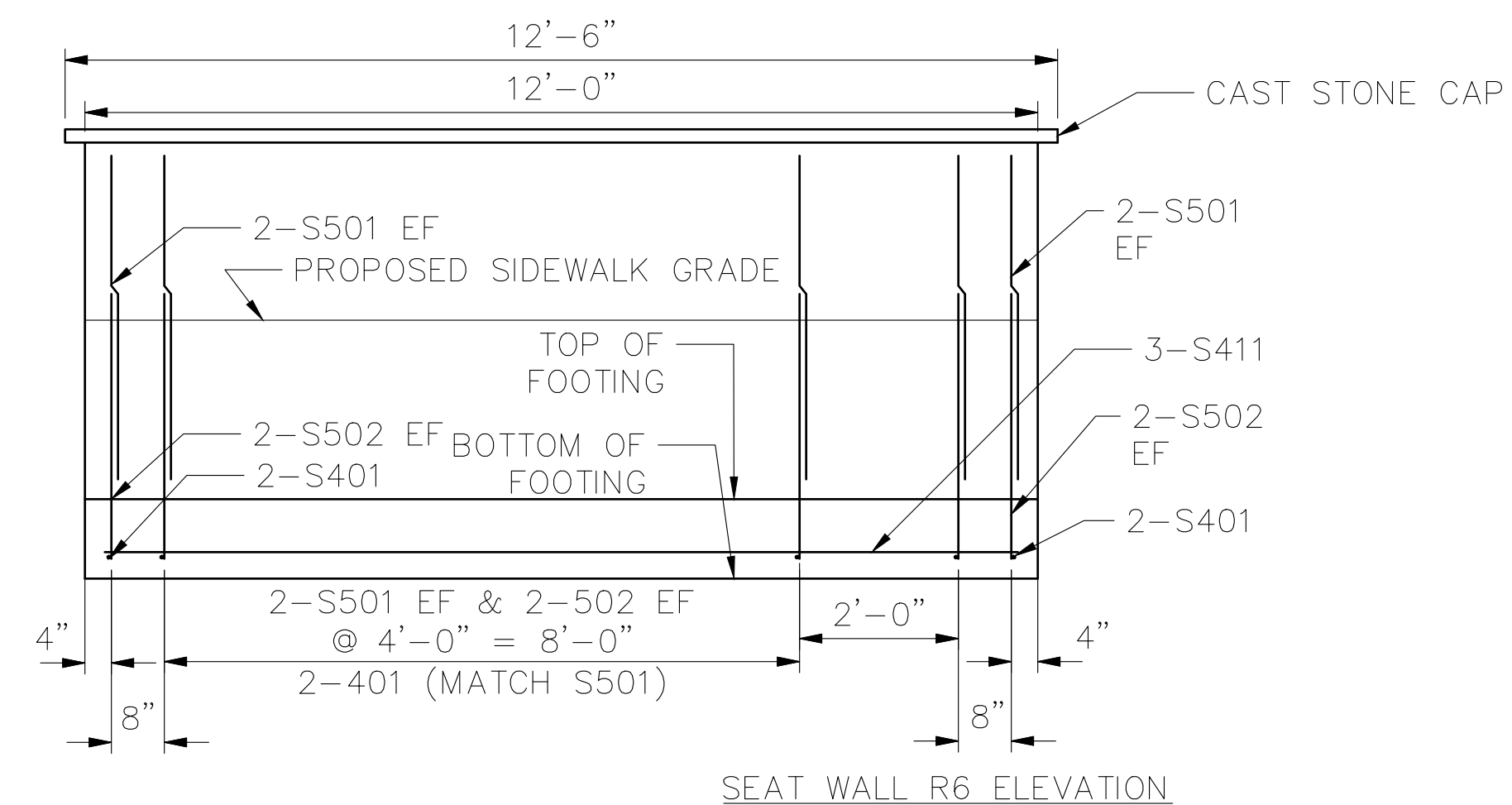
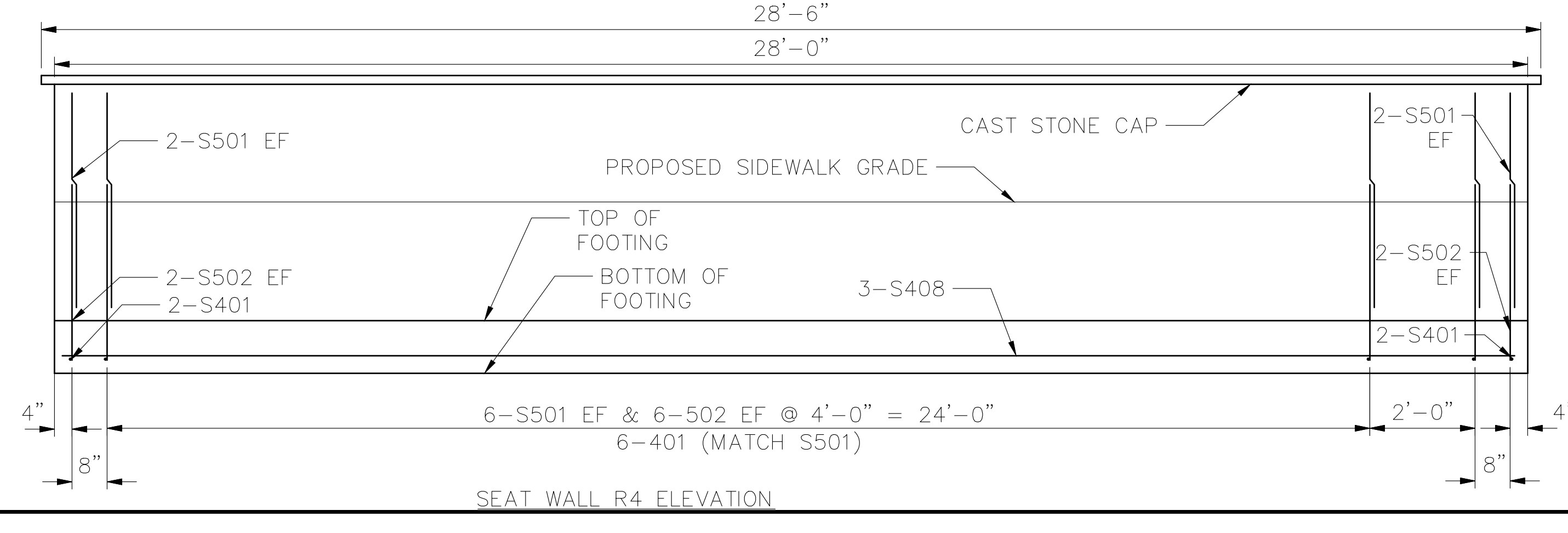
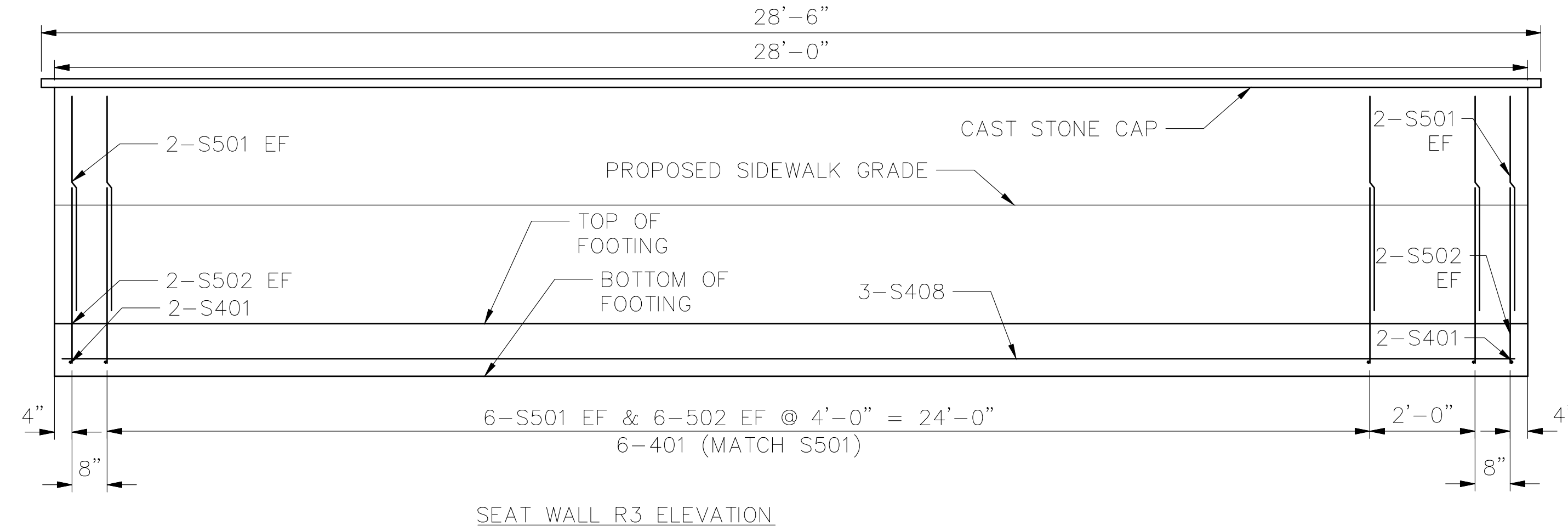
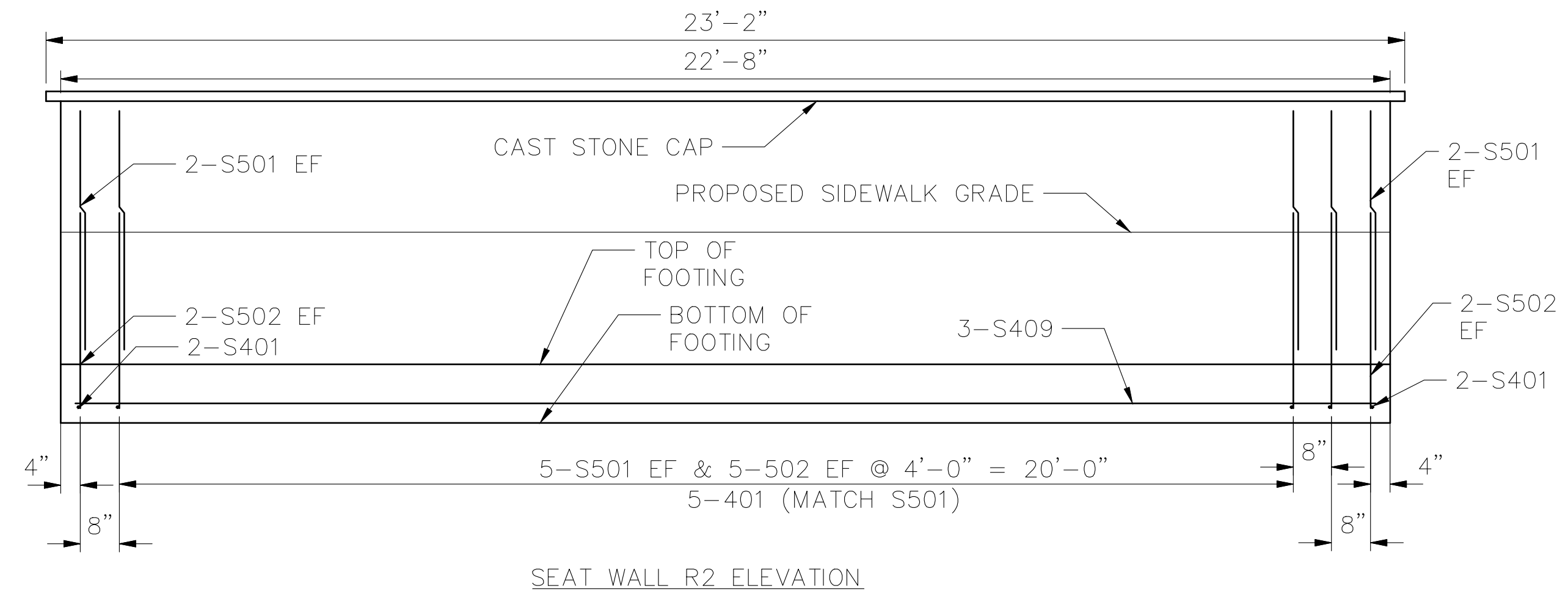
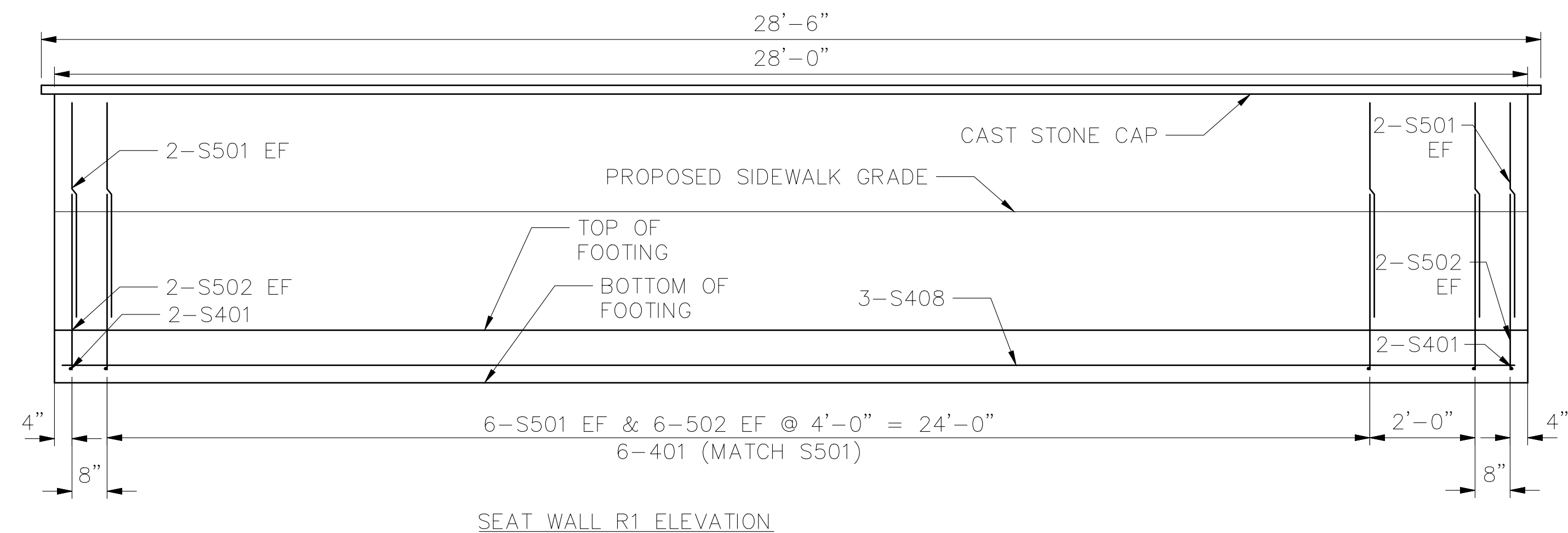


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CHECKED
MB

SEAT WALL ELEVATIONS

HAM-27-11.09

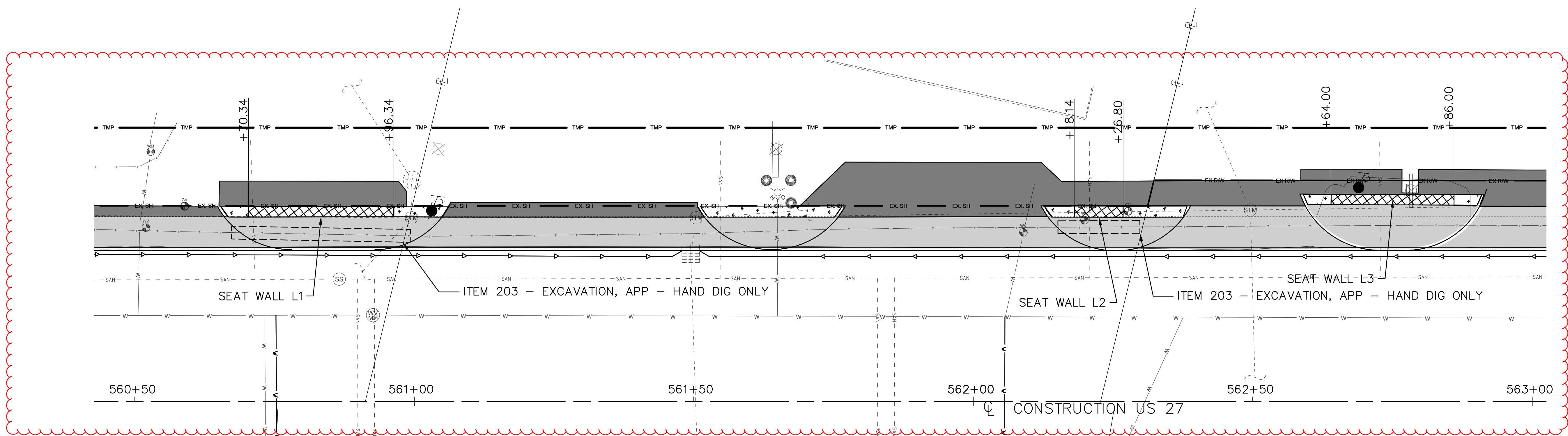
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MB

SEAT WALL ELEVATIONS

HAM-27-11.09



UTILITY LINETYPE LEGEND

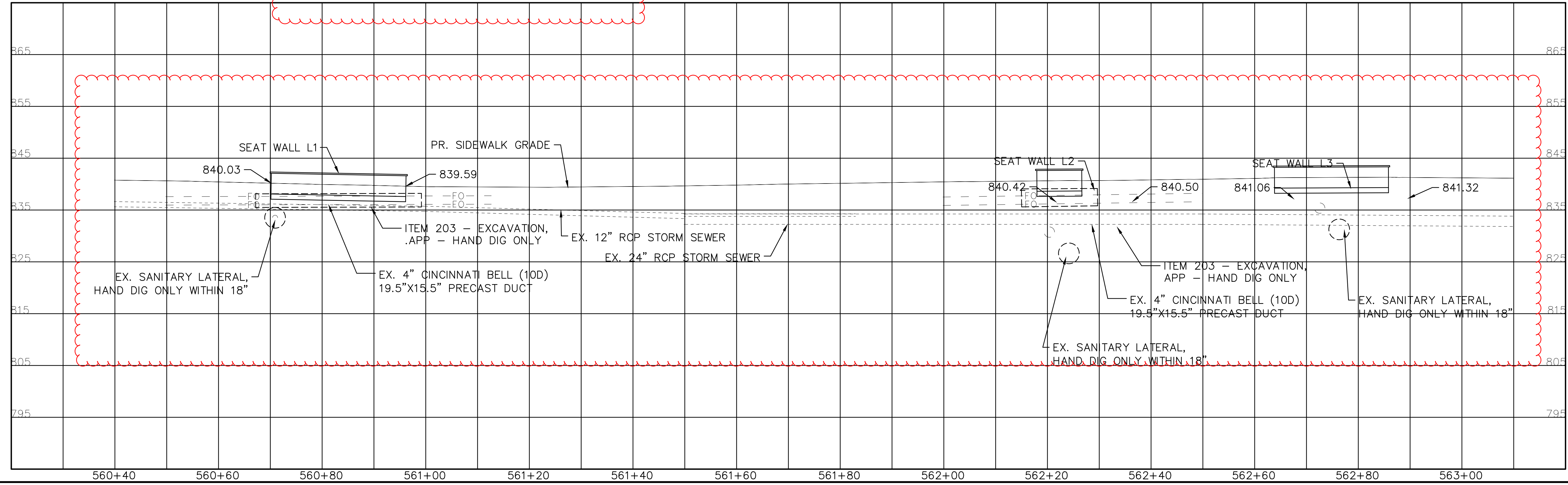
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—FO—	UNDERGROUND FIBER OPTIC
—T—	UNDERGROUND TELECOMMUNICATION
—OHT—	OVERHEAD TELECOM / FIBER OPTIC
—OHU—	OVERHEAD ELECTRIC / COMBINED
—G—	GAS MAIN
—W—	WATER MAIN
—SAN—	SANITARY SEWER
—SS—	STORM SEWER
—LT—	PROPOSED LIGHTING CONDUIT

LEGEND

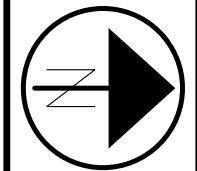
●	PR. LIGHT POLE
⊕	PR. LIGHT BOLLARD
□	PR. PULL BOX
▨	SAWCUT AND PAVEMENT REPAIR
▩	SEAT WALL
▬	PROPOSED SIDEWALK
▭	DRIVEWAY AND PARKING LOT REPAIR LIMITS
○	CATV

NOTE:

- CBT HAS AN EXISTING (10) DUCT CONDUIT SYSTEM THAT WILL BE IN CLOSE PROXIMITY OF PROPOSED WALL SEGMENTS ALONG THE LEFT SIDE OF US27. CAUTION SHOULD BE USED AT ALL TIMES DURING EXCAVATION OF THE PROPOSED WALLS.
- DURING EXCAVATION AND CONSTRUCTION OF THE PROPOSED WALL SEGMENTS SHOULD THE CBT CONDUIT SYSTEM BE EXPOSED AND THERE IS ANY QUESTION AS TO THE INTEGRITY OR DAMAGE OF THE SYSTEM CONTACT THE CBT INSPECTOR (RICH RAYLE: 513.608.7419) TO FIELD INSPECT PRIOR TO BACKFILLING.
- ONLY UTILITIES CROSSING THE WALL OR ITS FOUNDATION FOOTPRINT ARE SHOWN IN PROFILE.



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SCALE IN FEET

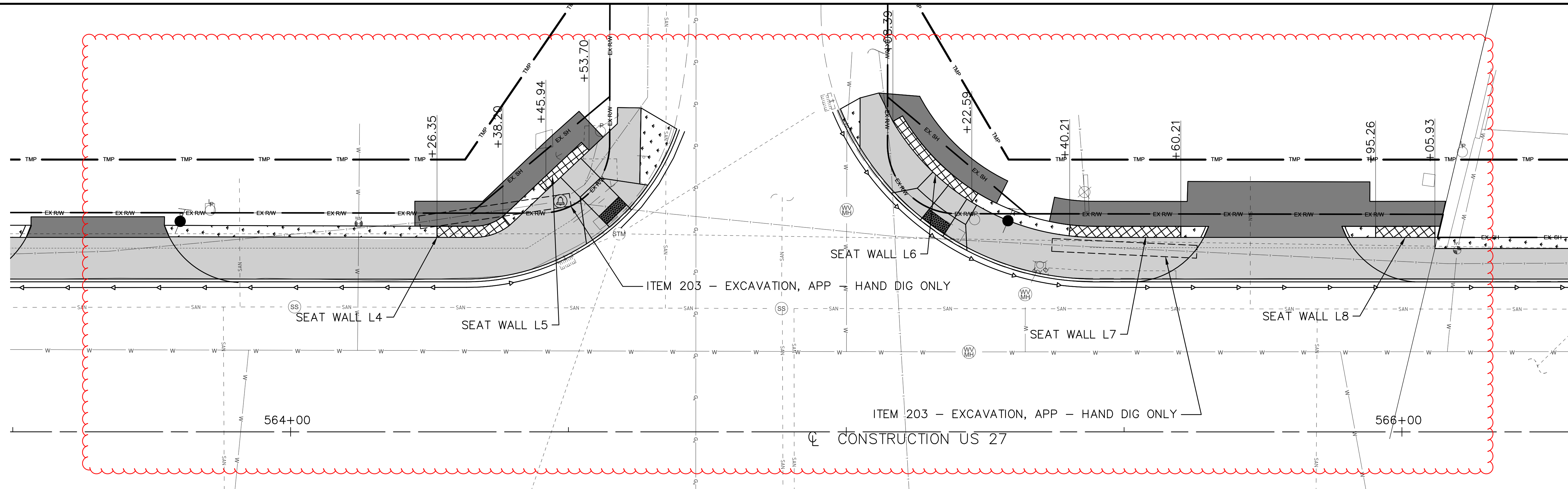
DRAWN SCR
CHECKED MAM

SEAT WALL PLAN AND PROFILE
SEAT WALLS L4, L5, L6, L7, L8

HAM-27-11.09

2 / 6

79
98

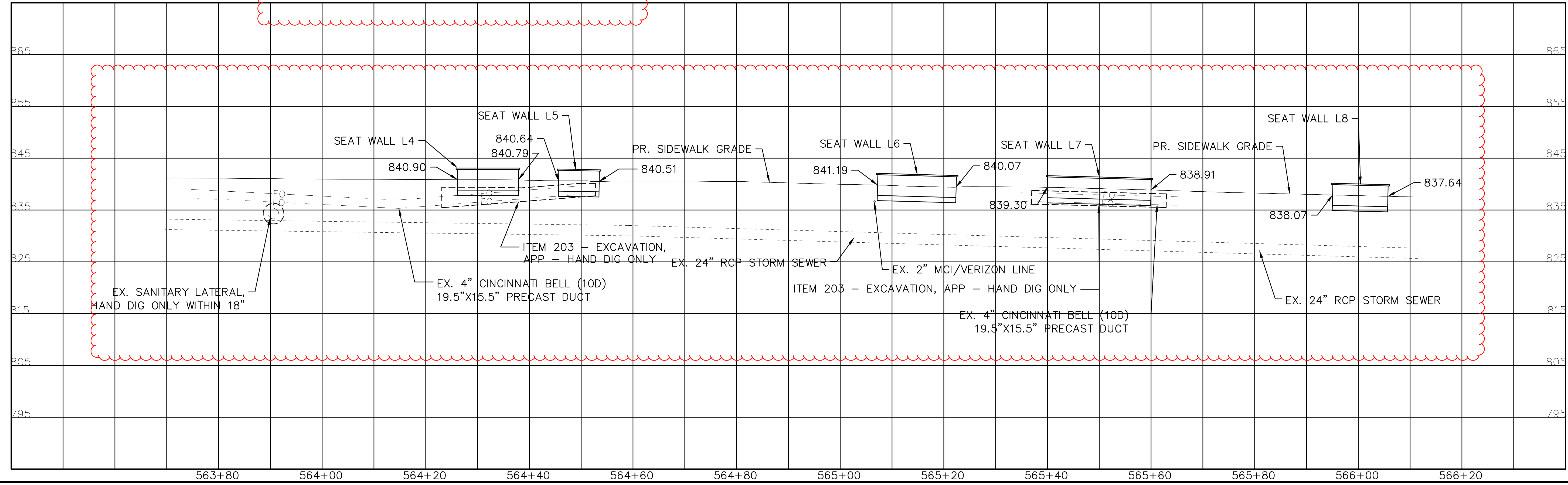


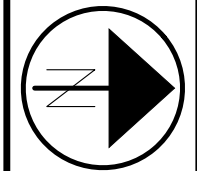
- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
 - FO UNDERGROUND FIBER OPTIC
 - T UNDERGROUND TELECOMMUNICATION
 - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
 - OHE OVERHEAD ELECTRIC / COMBINED
 - G GAS MAIN
 - W WATER MAIN
 - SAN SANITARY SEWER
 - SS STORM SEWER
 - LT PROPOSED LIGHTING CONDUIT

- LEGEND**
- PR. LIGHT POLE
 - ⊕ PR. LIGHT BOLLARD
 - PR. PULL BOX
 - ▨ SAWCUT AND PAVEMENT REPAIR
 - ▤ SEAT WALL
 - ▥ PROPOSED SIDEWALK
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NOTE:

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- DURING EXCAVATION AND CONSTRUCTION OF THE PROPOSED WALL SEGMENTS SHOULD THE CBT CONDUIT SYSTEM BE EXPOSED AND THERE IS ANY QUESTION AS TO THE INTEGRITY OR DAMAGE OF THE SYSTEM CONTACT THE CBT INSPECTOR (RICH RAYLE: 513.608.7419) TO FIELD INSPECT PRIOR TO BACKFILLING.
- ONLY UTILITIES CROSSING THE WALL OR ITS FOUNDATION FOOTPRINT ARE SHOWN IN PROFILE.





0 5 10
HORIZONTAL
SCALE IN FEET

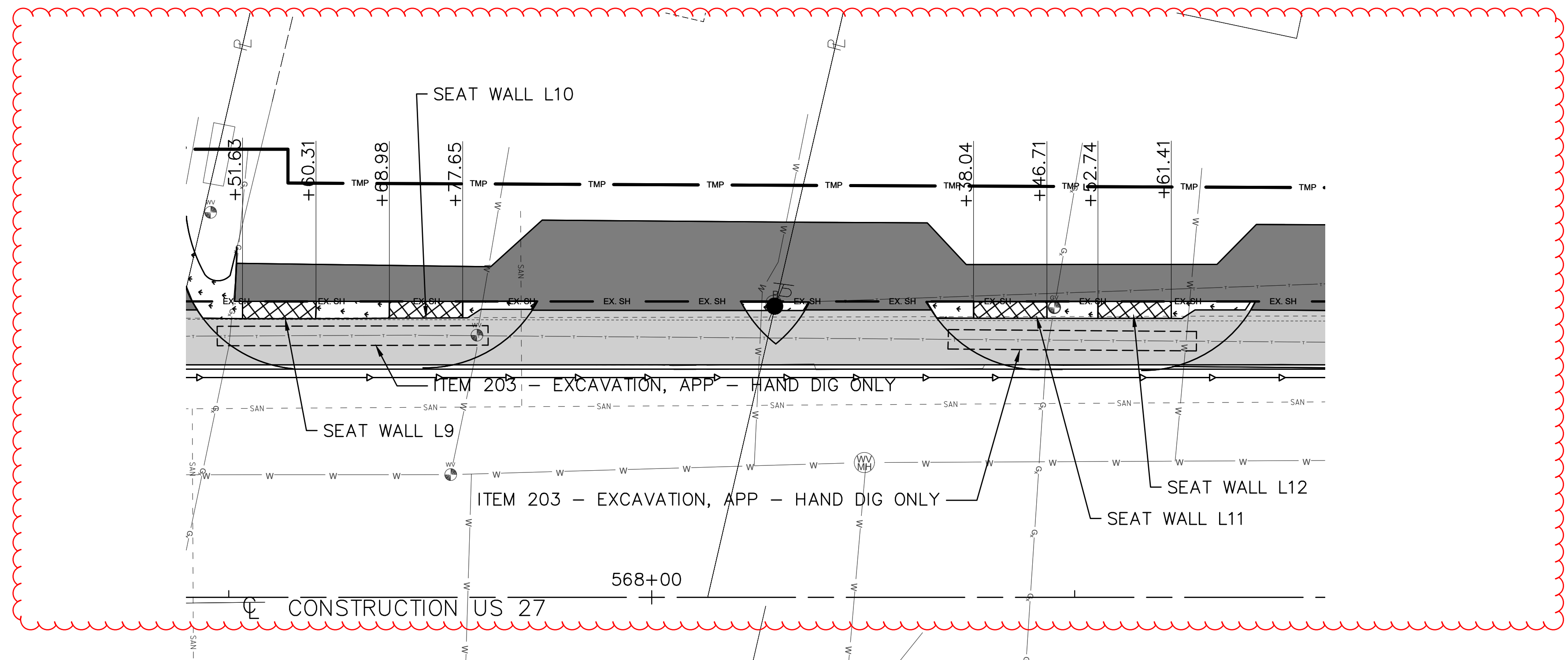
DRAWN
SCR
CHECKED
MAM

SEAT WALL PLAN AND PROFILE
SEAT WALLS L9, L10, L11, L12

HAM-27-11.09

3 / 6

80
98

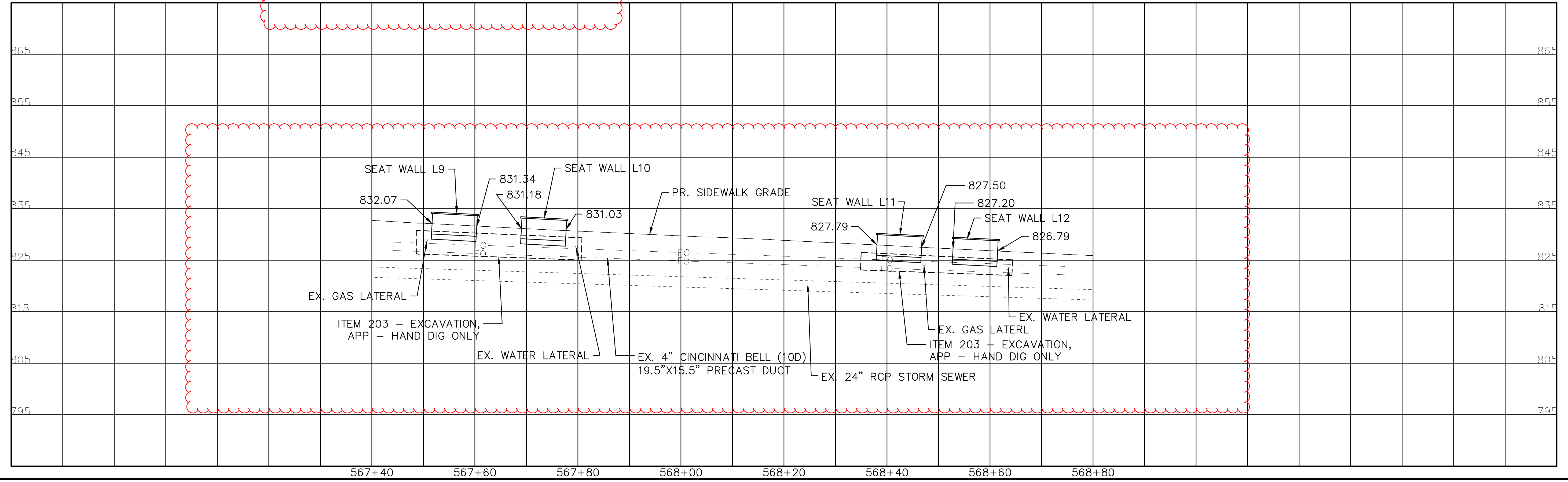


- UTILITY LINETYPE LEGEND**
- E — UNDERGROUND ELECTRIC
 - FO — UNDERGROUND FIBER OPTIC
 - T — UNDERGROUND TELECOMMUNICATION
 - OHT — OVERHEAD TELECOM / FIBER OPTIC / CATV
 - OHU — OVERHEAD ELECTRIC / COMBINED
 - G — GAS MAIN
 - W — WATER MAIN
 - SAN — SANITARY SEWER
 - ST — STORM SEWER
 - LT — PROPOSED LIGHTING CONDUIT

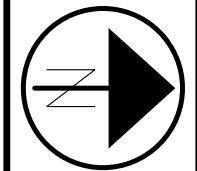
- LEGEND**
- PR. LIGHT POLE
 - ⊕ PR. LIGHT BOLLARD
 - PR. PULL BOX
 - ▨ SAWCUT AND PAVEMENT REPAIR
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NOTE:

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- DURING EXCAVATION AND CONSTRUCTION OF THE PROPOSED WALL SEGMENTS SHOULD THE CBT CONDUIT SYSTEM BE EXPOSED AND THERE IS ANY QUESTION AS TO THE INTEGRITY OR DAMAGE OF THE SYSTEM CONTACT THE CBT INSPECTOR (RICH RAYLE: 513.608.7419) TO FIELD INSPECT PRIOR TO BACKFILLING.
- ONLY UTILITIES CROSSING THE WALL OR ITS FOUNDATION FOOTPRINT ARE SHOWN IN PROFILE



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HORIZONTAL
SCALE IN FEET

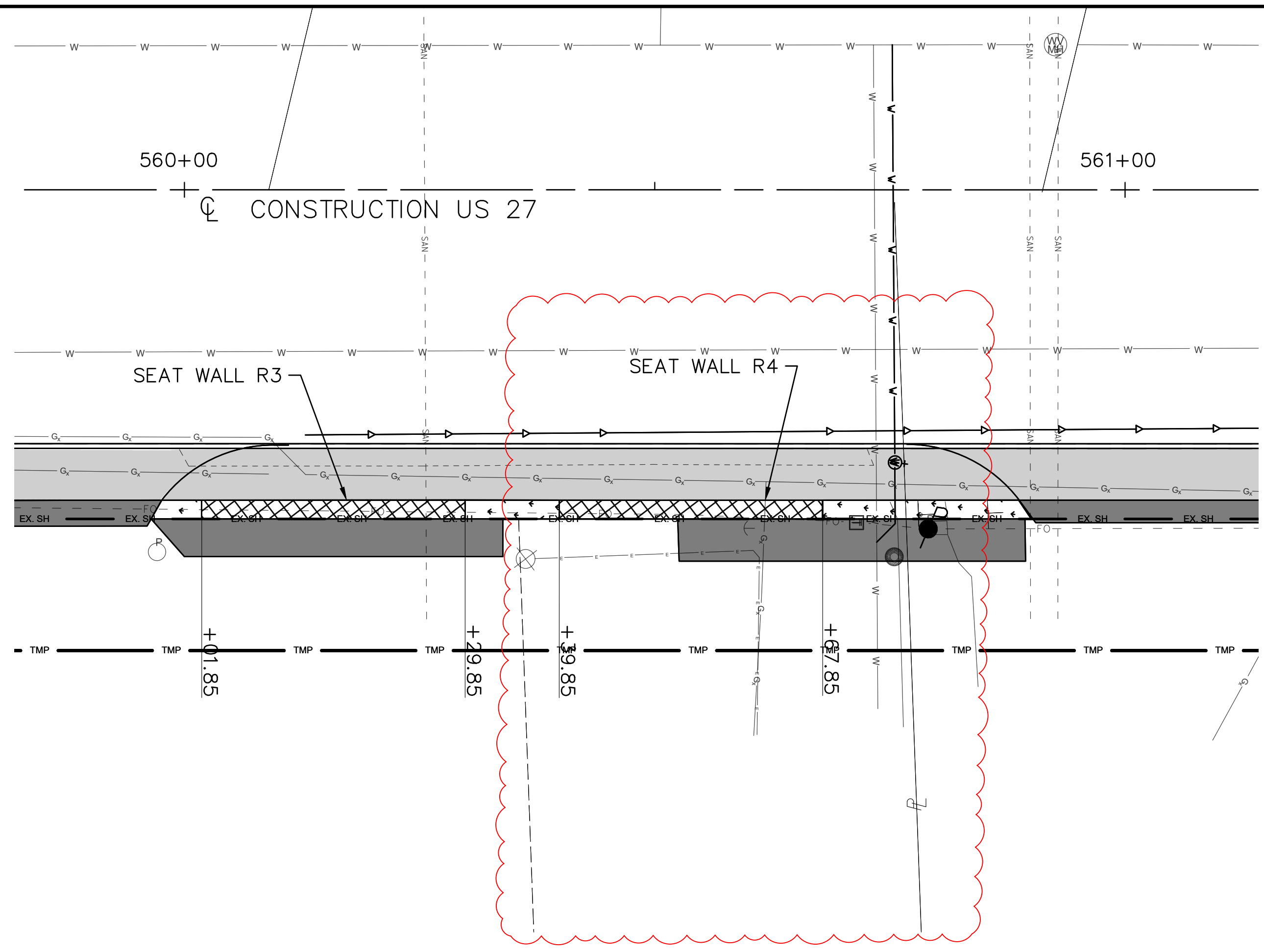
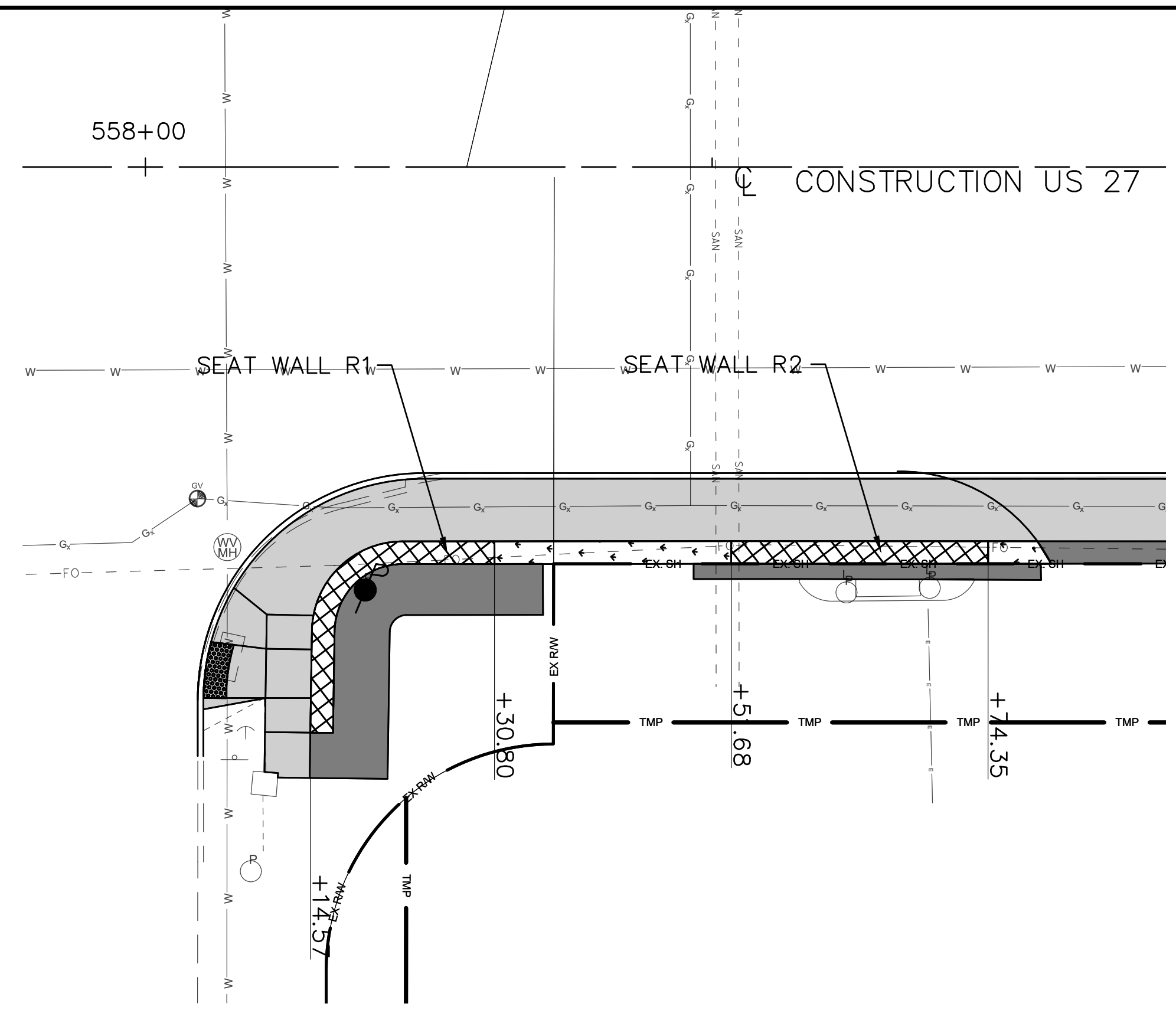
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CHECKED M/AM

SEAT WALL PLAN AND PROFILE
SEAT WALLS R1, R2, R3, R4

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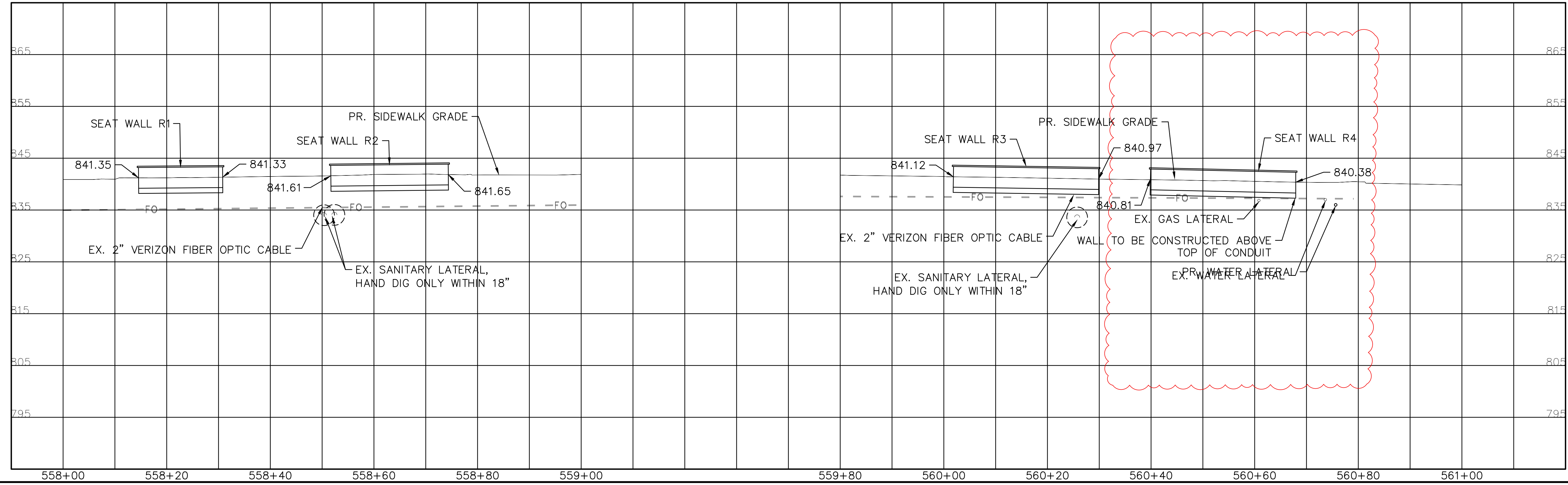
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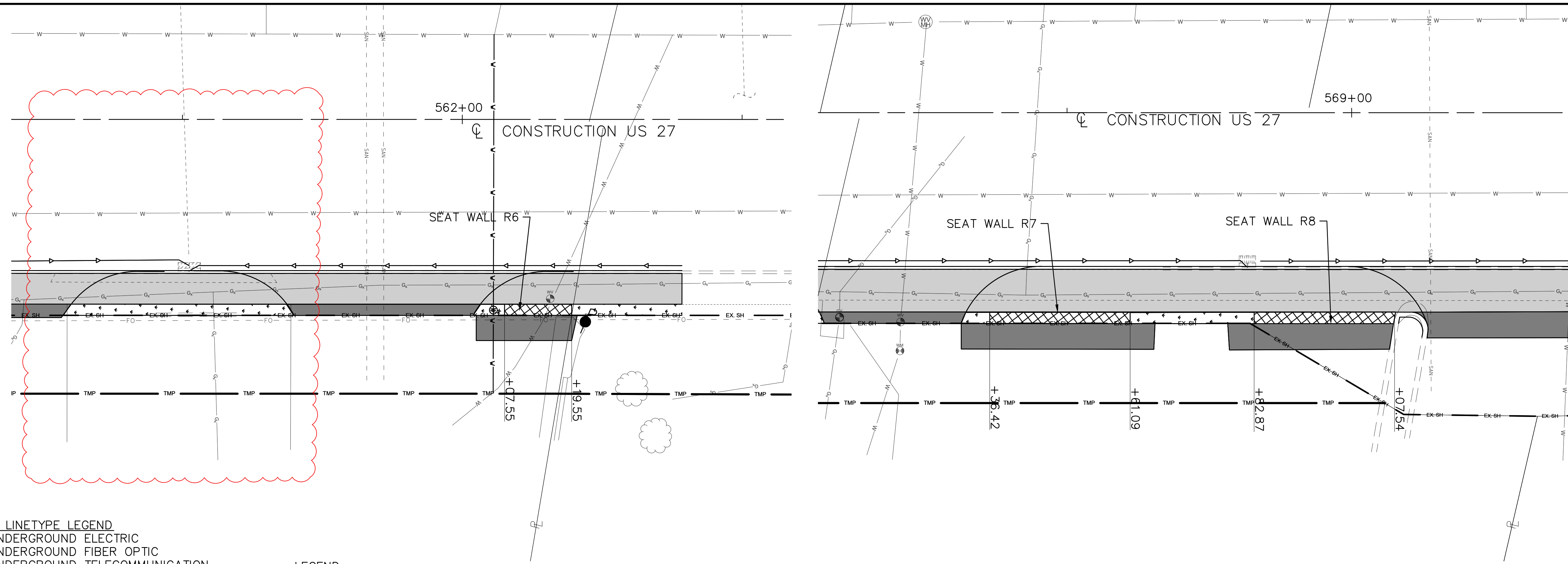
- UTILITY LINETYPE LEGEND**
- E UNDERGROUND ELECTRIC
 - FO UNDERGROUND FIBER OPTIC
 - T UNDERGROUND TELECOMMUNICATION
 - OHT OVERHEAD TELECOM / FIBER OPTIC / CATV
 - OHE OVERHEAD ELECTRIC / COMBINED
 - G GAS MAIN
 - W WATER MAIN
 - SAN SANITARY SEWER
 - SS STORM SEWER
 - LT PROPOSED LIGHTING CONDUIT

- LEGEND**
- PR. LIGHT POLE
 - ⊕ PR. LIGHT BOLLARD
 - PR. PULL BOX
 - ▨ SAWCUT AND PAVEMENT REPAIR
 - ▩ SEAT WALL
 - ▬ PROPOSED SIDEWALK
 - ▭ DRIVEWAY AND PARKING LOT REPAIR LIMITS

NOTE:
- ONLY UTILITIES CROSSING THE WALL OR ITS FOUNDATION FOOTPRINT ARE SHOWN IN PROFILE.



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