

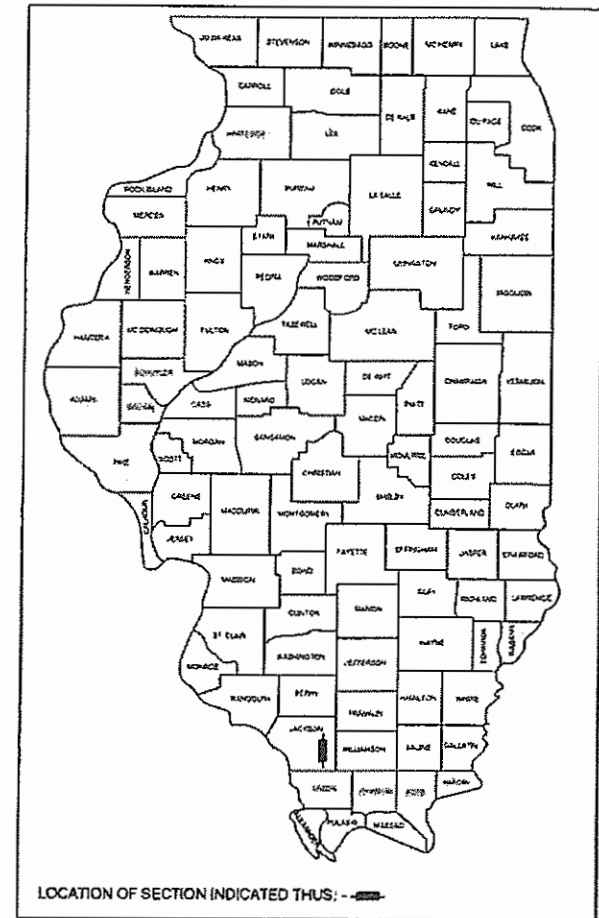
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
NEW ERA ROAD RECONSTRUCTION
CITY OF CARBONDALE

NEW ERA ROAD RECONSTRUCTION (FAU 9715)
GLENN ROAD TO AIRPORT ROAD (FAU 9729 AS RELOCATED)
SECTION 18-00138-00-FP

FEDERAL PROJECT NO. 4WRW(872)
CITY OF CARBONDALE
JACKSON COUNTY
JOB NO. C-99-116-18

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	1
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 3-30-22
DATE
Robert H. Brown P.E.
DIRECTOR OF OPERATIONS, CITY OF CARBONDALE

PASSED 4/12/22
DATE
[Signature]
DEPUTY ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED REVIEW 4/12/22
DATE
Kinda H. Brown PE
DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER

INDEX OF SHEETS

- 1 COVER SHEET
- 2 - 3 GENERAL NOTES
- 4 - 5 SUMMARY OF QUANTITIES
- 6 - 7 TYPICAL SECTIONS
- 8 - 12 SCHEDULES OF QUANTITIES
- 13 - 18 DETAILS
- 19 - 20 OVERALL PLAN
- 21 - 22 REMOVAL PLANS
- 23 - 26 PLAN & PROFILE
- 27 - 30 DRAINAGE PLAN & PROFILE
- 31 - 32 EROSION CONTROL PLAN
- 33 - 34 PAVEMENT MARKING AND SIGNS
- 35 TO 62 CROSS SECTIONS
- 63 R.O.W. PLAT COVER SHEET
- 64 R.O.W. PLAT - STA 100+94.81 TO STA 109+20
- 65 R.O.W. PLAT - STA 109+20 TO STA 118+64.78

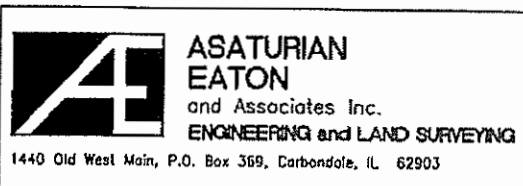
IDOT HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401-04 METAL FLARED END SECTION FOR PIPE CULVERTS
- 664001-02 CHAIN LINK FENCE
- 665001-02 WOVEN WIRE FENCE
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-04 OFF-RD OPERATIONS, 2L, 2W, DAY ONLY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC)(ROAD CLOSED TO THRU TRAFFIC)

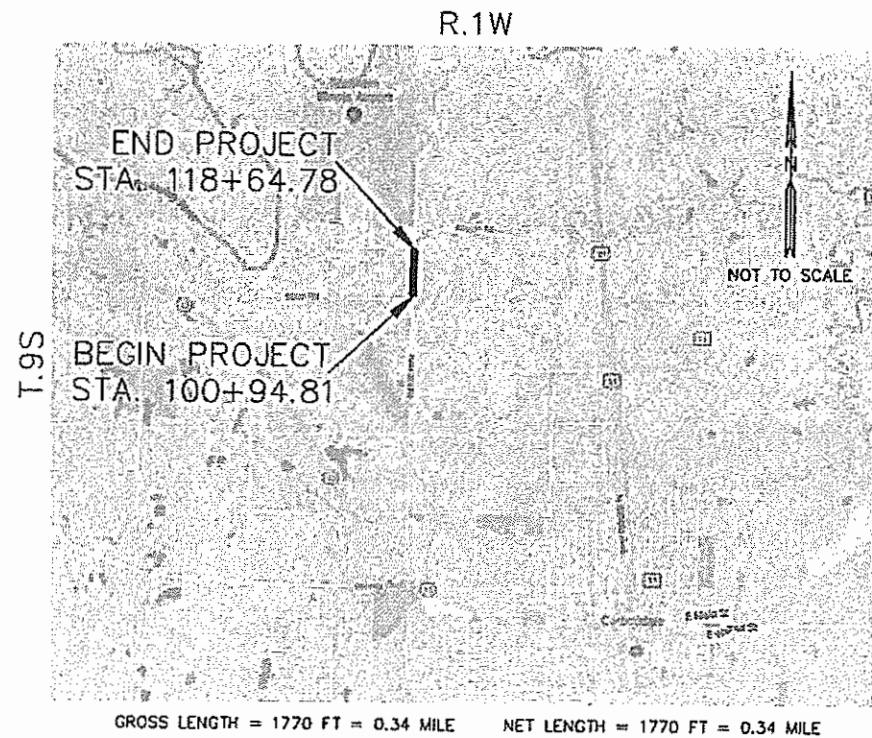
DESIGN INFORMATION

FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR (RURAL)
EXISTING ADT = 1350 (2012)
DESIGN ADT = 1650 (2040)
DESIGN SPEED = 50 MPH
FOR RECONSTRUCTION: LEVEL: 750 < DESIGN ADT < 2000

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



CONTRACT NO. 99689



PRAVEEN SUNNY, P.E.
L. PROF. ENGINEER
NO. 062.058422
EXPIRES 11/30/2023

GENERAL NOTES (ALL SHEETS)

- CONTRACTOR SHALL COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), EXCAVATION AND TRENCHING SAFETY STANDARDS CFR 29, PART 1926.
- ALL UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES WITH THE VARIOUS UTILITY COMPANIES PRIOR TO EXCAVATION FOR THE PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND MAKING ARRANGEMENTS AS NECESSARY FOR THE RELOCATION OF OR MODIFICATION OF ANY EXISTING UTILITIES IN CONFLICT WITH THE PROPOSED CONSTRUCTION. UTILITIES THAT WERE MARKED IN THE FIELD AND DAMAGED BY THE CONTRACTOR DUE TO POOR COORDINATION SHALL BE ADJUSTED/REPLACED BY THE CONTRACTOR AT THE CONTRACTORS OWN EXPENSE AND AS DIRECTED BY ENGINEER AND UTILITY OWNER.
- THE CONTRACTOR SHALL VERIFY & COORDINATE ALL UNDERGROUND UTILITY WORK TO AVOID AND ELIMINATE ANY ELEVATION CONFLICTS. GRAVITY SEWER SYSTEMS (I.E. STORM, SANITARY, DOWN SPOUT PIPING, ETC.) SHALL HAVE PRECEDENCE OVER ALL OTHER UTILITIES. ANY UTILITIES FOUND TO BE IN CONFLICT WITH EACH OTHER AND/OR THE PROPOSED WORK, SHALL BE RELOCATED OR ADJUSTED AS NECESSARY. CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE ENGINEER AND UTILITY OWNER.
- THE CONTRACTOR SHALL, ON A DAILY BASIS, CLEAN ALL SOIL/DIRT DEPOSITED OR SPILLED ON ROADWAY SURFACES AS A RESULT OF CONSTRUCTION (HAULING, SITE ACCESS, ETC.)
- THE CONTRACTOR SHALL PROVIDE BARRIER TRAFFIC CONTROL AT ALL TIMES WHEN WORKING WITHIN PUBLIC OR STREET RIGHT-OF-WAYS. ALL TRAFFIC CONTROL BARRIERS AND SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH STATE AND LOCAL AGENCY REGULATIONS AND STANDARDS.
- ALL CONTRACTORS SHALL PROVIDE TEMPORARY & PERMANENT SOIL EROSION AND SEDIMENT CONTROL AT ALL EXCAVATED AREAS AS REQUIRED BY NPDES/IEPA REGULATIONS AS NECESSARY. THE OWNER AND ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE REQUIREMENTS OF THESE REGULATIONS AND OBTAIN ALL RELATED PERMITS IF NECESSARY. ALL CONTROLS AND WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF: THE ILLINOIS URBAN MANUAL, THE ILLINOIS PROCEDURES & STANDARDS FOR URBAN SOIL EROSION & SEDIMENT CONTROL, AND ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARDS.
- TREES, PLANT MATERIAL AND DEMOLITION DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF AS NOTED AND SPECIFIED.
- ANY EXCESS SOILS SHALL BE HAULED OFF AND DISPOSED OF AND ANY FILL SOILS SHALL BE BROUGHT IN AS NECESSARY.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED AND ALL ELEVATIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (EP=EDGE OF PAVEMENT, TC=TOP OF CURB/THICKENED WALK).
- GAS, ELECTRIC, TELEPHONE, AND OR CABLE TV SERVICES ARE SHOWN FOR REFERENCE ONLY. THE EXACT LOCATION OF THESE SERVICES SHALL BE DETERMINED BY THE APPROPRIATE UTILITY COMPANY AND THE OWNER AND COORDINATED BY THE CONTRACTOR.
- ALL TRENCHES AND UTILITIES SHALL BE BACKFILLED AS DETAILED AND SPECIFIED.
- ALL UNDERGROUND UTILITIES SHALL BE TRENCH BACKFILLED WITH COMPACTED AGGREGATE AS SPECIFIED WHEN LOCATED UNDER OR WITHIN 2' OF ALL PAVEMENT, DRIVES, CURBS, SIDEWALKS, AND THE LIKE OR LOCATED WITHIN A STREET OR PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL PROVIDE ALL LAYOUT SERVICES AND SHALL HIRE & PAY FOR PROFESSIONAL SURVEYING/LAYOUT SERVICES AS NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN HEREIN.
- ALL CURBS SHALL BE POURED SEPARATE FROM PAVEMENTS, SIDEWALKS, ETC. NO INTEGRAL CURBS OR GUTTERS SHALL BE ALLOWED.
- FINAL CLEAN OUT BOXES, MANHOLE LIDS, CASTINGS, VALVE BOXES, ETC. SHALL CONFORM TO FINAL GRADES; THE CONTRACTOR SHALL MAKE ALL ADJUSTMENTS NECESSARY TO SET ALL EXISTING AND PROPOSED BOXES AND LIDS FLUSH WITH FINAL GRADE.
- ALL EARTH AREAS THAT ARE DISTURBED SHALL BE GRADED AND SLOPED TO DRAIN TO PREVENT PONDING OF ANY WATERS; MINIMUM SLOPE SHALL BE 2% (50:1) AND A MAXIMUM SLOPE SHALL BE 4:1 (25%) UNLESS OTHERWISE APPROVED BY ENGINEER.
- ALL DISTURBED UNPAVED AREAS IMMEDIATELY ADJACENT TO THE PROJECT LIMITS WILL BE SEEDED, FERTILIZED, AND MULCHED BY CONTRACTOR. CONTRACTOR SHALL TAKE EXTRA CARE TO MINIMIZE THE AMOUNT OF DISTURBANCE TO THE ADJACENT EARTH AREAS. ANY DAMAGE TO EARTH AREAS OUTSIDE OF THE IMMEDIATE PROJECT SCOPE WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REGRADE, FERTILIZE, SEED AND MULCH (ALONG WITH ALL NECESSARY EROSION CONTROL) TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE CITY OF CARBONDALE OR IDOT.
- ALL PAVEMENT, CURB, AND SIDEWALK GRADES SHALL BE SET AND VERIFIED VIA STRING LINE GRADE CONTROLS. UNLESS OTHERWISE SHOWN ON THE PLANS, PAVEMENT GRADES ARE CONTINUOUS BETWEEN CURB LINES, SWALE LINES, RIDGE LINES, VALLEY LINES, AND OR DESIGNATED GRADE CONTROL LINES. THE CONTRACTOR SHALL VERIFY SUB-GRADE, AGGREGATE BASE, AND PAVEMENT ELEVATIONS VIA STRING LINE GRADE CONTROLS PRIOR TO PLACING ANY AGGREGATE BASES OR PAVEMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY SIZES, MATERIALS AND LOCATION/ELEVATIONS BEFORE CONSTRUCTION OR ORDERING OF ANY MATERIAL AND COORDINATE ALL WORK AS NECESSARY TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL EMPLOY AND PAY FOR AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING OF TRENCH BACKFILL, EARTHWORK, AND PAVEMENT AS PER IDOT STANDARD SPECIFICATIONS AND ASTM D698. CONTRACTOR TO COORDINATE ALL SCHEDULING OF TESTING WITH THE CONTRACTOR EMPLOYED TESTING LABORATORY ACCORDING TO CONTRACTOR'S CONSTRUCTION SCHEDULE.
- THE CONTRACTOR SHALL COORDINATE FINAL LOCATIONS, TIE IN'S, AND INVERT ELEVATIONS OF ALL UTILITIES SERVICES (I.E. WATER, SANITARY SEWER, ELECTRIC, TELEPHONE, GAS, ETC.) WITH ALL OTHER TRADES AND ASSOCIATED CONTRACTORS.
- ALL WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION", HEREINAFTER REFERRED TO AS "STANDARD SPECIFICATIONS", AND SHALL COMPLY WITH THE REQUIREMENTS FOR THE STATE OF ILLINOIS PLUMBING CODE.
- WATERMANS AND SANITARY SEWERS SHALL HAVE THE NECESSARY SPACING AND DISTANCE SEPARATION AS PER THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", SECTION #41-2.01. CONTRACTOR SHALL PROVIDE CASING AS NECESSARY TO COMPLY WITH THE "STANDARD SPECIFICATIONS."
- ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUB-CONTRACTED WORK, REGARDLESS OF FUNDING SOURCE. THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS SHALL GOVERN CONTRACTUAL REQUIREMENTS FOR SAID ARRANGEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING POSITIVE DRAINAGE IN THE DISTURBED AREAS, TO THE SATISFACTION OF THE ENGINEER.
- ALL ADVANCED WARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE.

SYMBOL AND LINETYPE LEGENDS FOR ALL PLAN SHEETS

TYPICAL TOPO/BOUNDARY LEGEND

	"P-K NAIL" SET IN PAVEMENT
	IRON PIN OR PIPE FOUND
	IRON PIN WITH CAP FOUND
	IRON PIN WITH ALUMINUM SURVEY CAP SET
	COMPUTED CORNER POINT
	INDICATES RECORD DIMENSION
	LIGHT POST
	PARKING LOT LIGHT OR STREET LIGHT
	STORM INLET OR STORM MANHOLE
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER MANHOLE
	GAS VALVE
	POWER POLE (OR TELEPHONE OR CABLE TV)
	TELEPHONE POLE
	GUY WIRE
	FLARED END SECTION
	DECIDUOUS TREE
	CONIFEROUS TREE
	SHRUB OR BUSH
T/CA: ###.##	TOP OF MANHOLE CASTING
IE: ###.##	INVERT ELEVATION OR FLOW LINE OF PIPE

TYPICAL LINETYPE LEGEND

	EX. SANITARY SEWER
	EX. SANITARY FORCEMAIN
	EX. STORM SEWER
	EX. DITCH FLOW LINE
	EX. WATERLINE
	EX. OVERHEAD TEL/TV LINE
	EX. BURIED TV LINE
	EX. BURIED TEL. LINE
	EX. BURIED FIBER OPTIC
	EX. OVERHEAD ELECTRIC
	EX. BURIED ELECTRIC
	EX. GAS LINE
	EX. WIRE OR WOOD FENCE
	EX. BARBED WIRE FENCE
	EX. CHAINLINK FENCE
	EX. BUILDING/TOPO FEATURE
	EX. BUILDING CANOPY, ETC...
	EX. TOPOGRAPHIC FEATURE
	EX. CONTOUR LINE
	PROP. WATERLINE
	PROP. STORM SEWER
	PROP. DITCH FLOW LINE
	PROP. ROOF DRAIN
	PROP. SANITARY SEWER
	PROP. WIRE OR WOOD FENCE
	PROP. BARBED WIRE FENCE
	PROP. CHAINLINK FENCE/GATE
	PROP. FEATURE LINETYPE
	PROP. CONTOUR LINE
	PROP. UNDERGROUND ELECT.
	PROP. UG ELECT. FOR LIGHTS
	CENTERLINE/BASELINE
100+00	

COMMITMENTS

THE CITY OF CARBONDALE HAS MADE THE FOLLOWING COMMITMENTS FOR THE PROJECT. COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE. THE FOLLOWING IS A GENERAL SUMMARY AND DOES NOT CONTAIN FULL DETAILS. THE CONTRACTOR SHALL ADHERE TO THESE CONDITIONS.

1. THE PROPERTY OWNER OF PARCEL 15-05-351-002 (STEVEN KLAPROTH) REQUESTED THAT A RESIDENTIAL ENTRANCE BE PROVIDED TO THIS PARCEL. A NEW ENTRANCE AND ENTRANCE CULVERT, WITH FLARED END SECTIONS HAS BEEN SHOWN AT STA. 110+00. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH THE OWNER AND ADJUST ALL GRADING AND CONSTRUCTION AS NECESSARY.
2. THE CITY OF CARBONDALE WILL MAKE A NEW TAP TO THE EXISTING SANITARY SEWER MAIN UNDER NEW ERA ROAD IN FRONT OF PARCEL 15-06-476-006 (EDWARD PRATER) AND EXTEND A NEW SANITARY SEWER SERVICE TO THE NEW RIGHT OF WAY LINE WITH A NEW CLEANOUT AND CLEANOUT BOX. THE SEWER SERVICE WILL BE CAPPED ON THE UPSTREAM SIDE FOR FUTURE USE BY THE OWNERS OF THIS PARCEL. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CITY OF CARBONDALE AND THE PROPERTY OWNER TO PROVIDE PROPER SCHEDULING OF THIS WORK WHILE THE ROAD IS EXPOSED AND ACCESS TO THE EXISTING SANITARY SEWER IS AVAILABLE BEFORE THE NEW ROAD IS CONSTRUCTED.
3. CONTRACTOR SHALL COORDINATE THE REMOVAL AND RELOCATION OF THE EXISTING WOODEN WELCOME SIGN AND SIGN POST AT PARCEL 15-06-476-006 (EDWARD PRATER), JUST NORTH OF THE ENTRANCE. IF SIGN NEEDS TO BE RELOCATED, CONTRACTOR SHALL PROVIDE A NEW POST AND CONCRETE TO MATCH THE EXISTING SYSTEM AND RELOCATED AS DIRECTED BY THE OWNER OF THE PROPERTY. NOTIFY THE PROPERTY OWNER IN ADVANCE OF CONSTRUCTION SO THEY CAN REMOVE THE SIGN FROM THE POST AS NECESSARY.
4. THE SEWER LAGOON AT TAN TARA MOBILE HOME PARK IS NOT LONGER USED AND PART OF THE TREATMENT SYSTEM WILL BE LOCATED WITHIN THE NEW RIGHT OF WAY. THE EXISTING CONCRETE CHLORINATOR STRUCTURE AT STATION 104+19.93, 27.43' LEFT, SHALL BE REMOVED IN ITS ENTIRETY. CONTRACTOR SHALL LOCATE THE INLET AND OUTLET PIPES ENTERING AND LEAVING THIS STRUCTURE. THE DISCHARGE PIPE SHALL BE REMOVED COMPLETELY AND THE INLET PIPE SHALL BE REMOVED JUST PAST THE RIGHT OF WAY AND A NEW CLEANOUT AND CLEANOUT BOX INSTALLED AS DETAILED. THE DOWNSTREAM END OF THE CLEANOUT SHALL BE CAPPED WITH A WATER TIGHT PVC SCH 40 PIPE AND PIPE CAP. CONTRACTOR SHALL VERIFY THE EXISTING SIZE, LOCATION AND MATERIAL OF THE EXISTING PIPE AND PROVIDE PROPER CONNECTION TO THE EXISTING PIPE.
5. EXISTING STREET SIGN REMOVAL TO BE PROVIDED BY THE CITY OF CARBONDALE. NEW STREET SIGNS WILL BE PROVIDED AND INSTALLED BY THE CITY OF CARBONDALE. CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL RELATED SIGNAGE.
6. ALTHOUGH FIELD SURVEYS WERE COMPLETED TO DETERMINE AND ESTABLISH THE PROPERTY AND SECTION LINES WITHIN THE CONSTRUCTION LIMITS, THERE COULD BE ADDITIONAL SURVEY MONUMENTS WITHIN THE CONSTRUCTION LIMITS THAT WERE NOT LOCATED AND MADE OF RECORD. IF DURING CONSTRUCTION, ANY SURVEY MONUMENTS (IRON PINS, IRON PIPES, IRON PIN AND CAPS, SURVEY DISC, ETC.) ARE UNCOVERED OR LOCATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT A PROFESSIONAL LAND SURVEYOR (HIRED BY THE CITY OF CARBONDALE) CAN FIELD LOCATE AND MAKE RECORD OF THAT SURVEY MONUMENT BEFORE IT GETS REMOVED OR DESTROYED. UPON COMPLETION OF CONSTRUCTION OF THE PROJECT, THE CITY OF CARBONDALE WILL HIRE A PROFESSIONAL LAND SURVEYOR TO PLACE A STANDARD SURVEY MONUMENT (IRON PIN AND SURVEY CAP) AT ALL PROPERTY LINE INTERSECTIONS WITH THE NEW RIGHT-OF-WAY LINES; AND REPLACE ANY OTHER PERTINENT SURVEY MONUMENTS, LOCATED AND MADE OF RECORD DURING CONSTRUCTION IF NECESSARY.
7. CONTRACTOR SHALL COORDINATE ALL PHASING AND CONSTRUCTION WITH BUD KARSTEN, OWNER OF CIMCO RECYCLING AS NECESSARY FOR BUD KARSTEN TO COORDINATE WITH HIS CUSTOMERS TO USE THE NORTH COMMERCIAL ENTRANCE WHEN NEEDED. TRAFFIC SHALL BE ALLOWED TO THE MAIN WEST ENTRANCE FOR AS LONG AS PRACTICAL.
8. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT RELATED TO THE REMOVAL AND REPLACEMENT OF THE EXISTING WOOD SPLIT RAIL FENCE ALONG PARCELS 15-06-476-006, 003 AND 001. COORDINATE WITH THE RELATED PROPERTY OWNERS AS NECESSARY. THE NEW FENCE SHALL MATCH THE DESIGN, STYLE AND COLOR OF THE EXISTING FENCE. COORDINATE ANY GAPS TO BE PROVIDED IN THE FENCING WITH THE PROPERTY OWNERS.
9. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT RELATED WITH THE REMOVAL AND REPLACEMENT OF THE WOVEN WIRE FENCE ALONG PARCEL 15-06-476-004. COORDINATE WITH THE RELATED PROPERTY OWNER AS NECESSARY.
10. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT RELATED WITH THE REMOVAL AND REPLACEMENT OF THE CHAIN LINK FENCE ALONG PARCEL 15-05-351-006. COORDINATE WITH THE RELATED PROPERTY OWNER (CITY OF CARBONDALE) AS NECESSARY.

MIXTURE COMPOSITION TABLE

MIXTURE USE:	SURFACE	BINDER
APPLICATION:	HMA SC "C" N70	HMA BC IL-19.0 N70
AC/PG:	PG 64-22	PG 64-22
RAP% (MAX):	SEE SPECIFIC.	SEE SPECIFIC.
DESIGN AIR VOIDS:	4% @ Ndes=50	4% @ Ndes=50
MIXTURE COMPOSITION:	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE "C"	
MIXTURE WEIGHT:	112 LBS./SQ.YD./IN.	112 LBS./SQ.YD./IN.

NOTE: MIXTURE COMPOSITION FOR HMA SHOULDER/BIKE LANE IS THE SAME AS ABOVE. SEE TYPICAL SECTION FOR MORE INFORMATION.

APPLICATION RATES

FOR MATERIALS:	
AGGREGATE MATERIALS	2.05 TONS/CU.YD.
HOT-MIX ASPHALT	112 LBS./SQ. YD./IN OR 2.016 TONS/CU. YD.
BITUMINOUS MATERIALS (PRIME COAT)	1 APPLICATION ON AGG BASE
BITUMINOUS MATERIALS (TACK COAT)	1 APPLICATION ON HMA BINDER
TEMPORARY EROSION CONTROL SEEDING	2 APPLICATIONS OVER SEEDING AREA
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	2'-6" OUTSIDE THE PROPOSED EDGE OF PAVEMENT
TEMPORARY DITCH CHECK	16' PER DITCH CHECK

PERMITS

THE FOLLOWING IS A GENERAL SUMMARY AND DOES NOT CONTAIN FULL DETAILS.

1. IEPA NPDES STORM WATER PERMIT: THE PROJECT HAS AN NPDES STORM WATER PERMIT. MONITORING AND CERTIFICATION STATEMENTS WILL BE REQUIRED.
2. IEPA BURN PERMIT: THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FOR SAID PERMIT PENDING THEIR ELECTED METHOD OF BRUSH/TREE DISPOSAL.
3. ENVIRONMENTAL CLEARANCES: BIOLOGICAL, WETLAND, AND CULTURAL CLEARANCES HAVE BEEN OBTAINED.

PROJECT BENCHMARKS

STATION	OFFSET	DESCRIPTION	ELEVATION
100+89.24	24.87 L	FIRE HYDRANT #1191 W. OF NEW ERA RD.	396.66
105+25.40	26.85 L	FIRE HYDRANT #1339 W. OF NEW ERA RD. NEAR TAN TARA	396.49
111+39.60	33.74 L	FIRE HYDRANT #1338 W. OF NEW ERA RD. NEAR CIMCO	399.83
OFF SITE		FIRE HYDRANT #373 S. OF GLENN RD.	398.52

KNOWN UTILITY COMPANIES

<u>AMEREN</u>	<u>AMEREN</u>	<u>EGYPTIAN ELECTRIC COOP</u>	<u>MURDALE WATER DISTRICT</u>	<u>FRONTIER COMMUNICATIONS</u>	<u>CLEARWAVE COMMUNICATIONS</u>	<u>CITY OF CARBONDALE (SANITARY)</u>
NORM. DIST. GAS	HP DIST. GAS	BRAD AUSTIN	CURT MEZO	NATHAN SPERANEO	ROTH CLAYTON	TONY HARRISON
TRAVEN WATTS	VICTOR ONYEWUCHE	800-606-1505	618-684-8039	618-997-0659	618-841-2600	618-457-3240
618-315-8440	217-413-7379					



DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

GENERAL NOTES

SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.
CITY OF CARBONDALE	CONTRACT NO. 99689		

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	3
STATION: 100+94.81		TO STATION: 118+64.78		

SUMMARY OF QUANTITIES

SPECIAL PROV. OR DETAIL	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	201
*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	90
*	20100500	TREE REMOVAL, ACRES	ACRE	0.01
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	108
	20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	108
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	108
*	20200100	EARTH EXCAVATION	CU YD	2,102
*	20800150	TRENCH BACKFILL	CU YD	484
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	7,552
*	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,125
	21400100	GRADING AND SHAPING DITCHES	FOOT	220
	25000210	SEEDING, CLASS 2A	ACRE	1.2
	25100115	MULCH, METHOD 2	ACRE	1.2
	25100630	EROSION CONTROL BLANKET	SQ YD	5,800
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	240
	28000305	TEMPORARY DITCH CHECKS	FOOT	432
	28000400	PERIMETER EROSION BARRIER	FOOT	2,200

SPECIAL PROV. OR DETAIL	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
	28000500	INLET AND PIPE PROTECTION	EACH	32
	28100105	STONE RIPRAP, CLASS A3	SQ YD	83
	28200200	FILTER FABRIC	SQ YD	83
	35100100	AGGREGATE BASE COURSE, TYPE A	TON	4,585
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	123
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	14,290
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,430
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19, N70	TON	1,070
	40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	535
	42000200	PORTLAND CEMENT CONCRETE PAVEMENT, 7"	SQ YD	194
	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	SQ YD	374
	44000100	PAVEMENT REMOVAL	SQ YD	4,440
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	53
	44200050	WELDED WIRE REINFORCEMENT	SQ YD	194
	48100200	AGGREGATE SHOULDERS, TYPE A	CU YD	121
	50104400	CONCRETE HEADWALL REMOVAL	EACH	1
	50105220	PIPE CULVERT REMOVAL	FOOT	771

△ SPECIALTY ITEMS



DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

SUMMARY OF QUANTITIES	
SCALE:	SHEET NO. 1 OF 2 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	4
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

SUMMARY OF QUANTITIES

SPECIAL PROV. OR DETAIL	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
	54001001	BOX CULVERT END SECTIONS, CULVERT NO.1	EACH	2
	54001002	BOX CULVERT END SECTIONS, CULVERT NO.2	EACH	2
	54010402	PRECAST CONCRETE BOX CULVERT 4'X2'	FOOT	88
*	542C0217	PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	185
*	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	EACH	7
*	54261912	ALUMINUM FLARED END SECTIONS, 12"	EACH	14
*	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	438
*	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	57
*	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	367
*	550A4100	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	228
	60255500	MANHOLES TO BE ADJUSTED	EACH	9
*	60604400	COMBINATION CURB AND GUTTER, TYPE B-6.18	FOOT	1,227
Δ	66500105	WOVEN WIRE FENCE, 4'	FOOT	270
	67100100	MOBILIZATION	L SUM	1
Δ	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	200
Δ	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4,240
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	83

SPECIAL PROV. OR DETAIL	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
*	X0327902	MAILBOX REMOVE AND REPLACE	EACH	3
*	X6020084	MANHOLE, SPECIAL	EACH	5
*	X6024240	INLETS, SPECIAL	EACH	11
*	X6050700	REMOVE INLET BOX	EACH	2
Δ	X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	52
*	X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	276
*	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
*	Z0022800	FENCE REMOVAL	FOOT	495
Δ	Z0077900	WOOD POST AND RAIL FENCE	FOOT	500

Δ SPECIALTY ITEMS



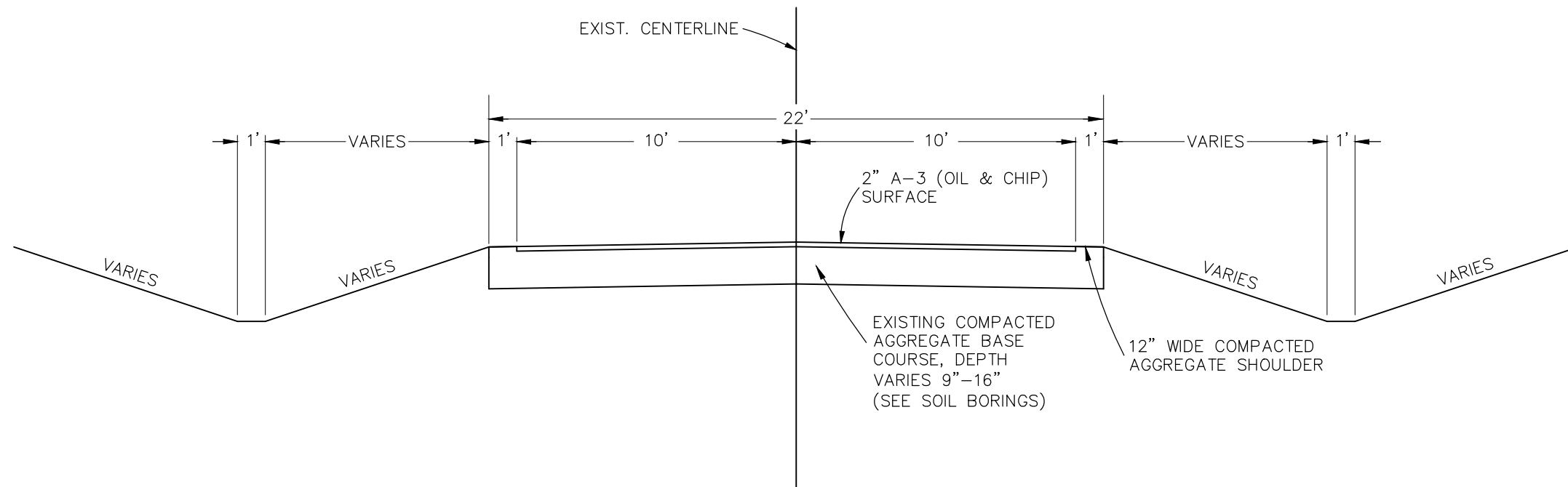
#3608

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

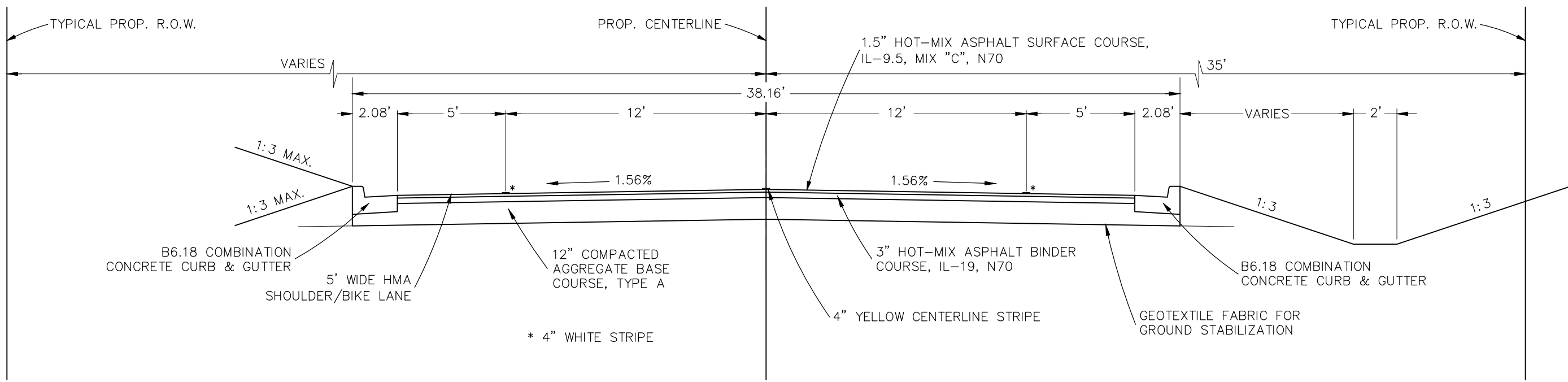
SUMMARY OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	5
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 996B9		

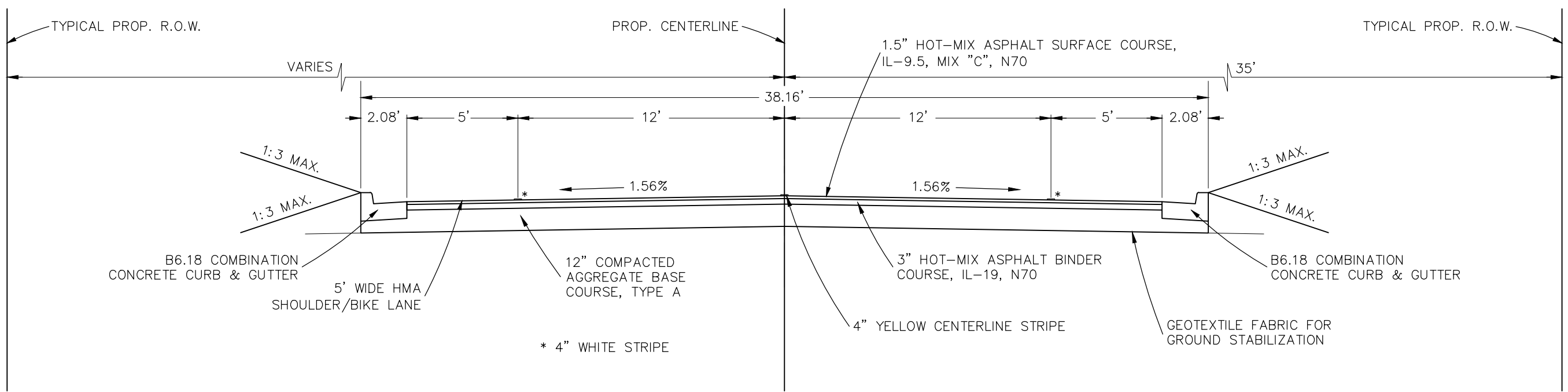
SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.



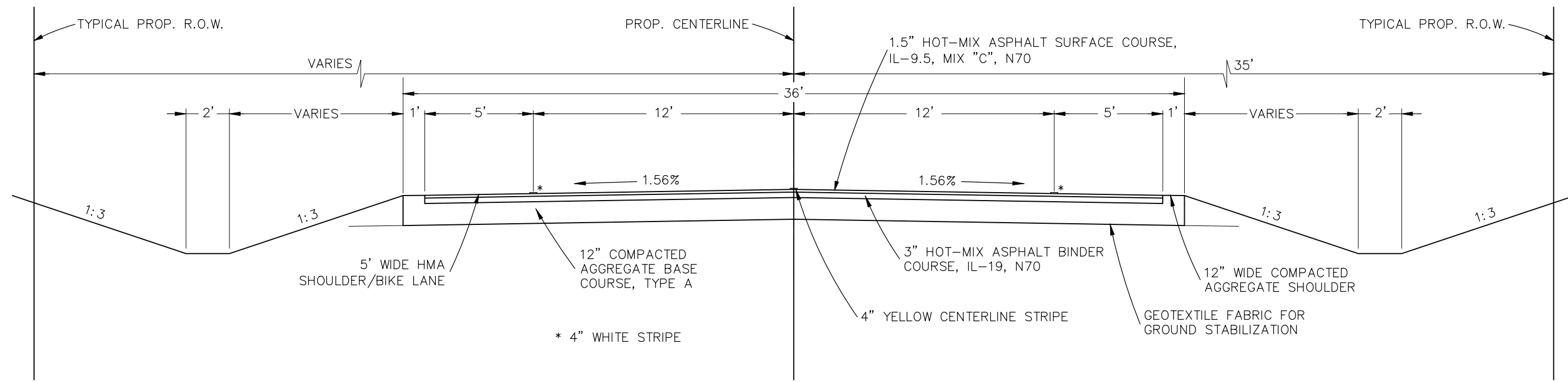
1 EXISTING TYPICAL SECTION
G-4 SCALE 1"=5'



2 PROPOSED TYPICAL SECTION: STA. 100+97.8 TO 103+08
G-4 SCALE 1"=5'



1 PROPOSED TYPICAL SECTION: STA. 103+08 TO 107+27.8
 G-5 SCALE 1"=5'



2 PROPOSED TYPICAL SECTION: STA. 107+27.8 TO 117+29.9
 G-5 SCALE 1"=5'

EARTHWORK SCHEDULE

LOCATION	A	B	C	D	E	F
	TOPSOIL EXCAVATION	TOPSOIL PLACEMENT	EARTH EXCAVATION	EARTH EXCAVATION INCLUDING TOPSOIL	EARTH EXCAVATION (INC. TOPSOIL) TO BE USED AS FILL	EARTHWORK BALANCE: WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
STA 100+94.81 TO STA 106+00.00	348.3	237.3	342.2	690.5	497.0	193.5
STA 106+00.00 TO STA 111+00.00	303.3	205.6	655.0	958.3	56.7	901.6
STA 111+00.00 TO STA 116+00.00	347.7	269.1	897.9	1245.6	160.2	1085.4
STA 116+00.00 TO STA 118+64.78	124.9	93.3	206.3	331.2	5.1	326.1
TOTAL	1124.2	805.3	2101.4	3225.6	719.0	2506.6
USE	1215		2011			

NOTES:

- ESTIMATED EARTHWORK QUANTITIES WERE CALCULATED FROM CROSS-SECTION END AREAS.
- COLUMN "A" - ESTIMATED VOLUME OF CUT MATERIAL PRODUCED BY REMOVAL OF EXISTING TOPSOIL. THESE QUANTITIES WERE CALCULATED USING THE AREA WITHIN THE CONSTRUCTION LIMITS EXCLUDING EXISTING ROADWAY/ENTRANCES AND AN ASSUMED DEPTH OF 5".
- COLUMN "B" - ESTIMATED VOLUME OF EXCAVATED TOPSOIL TO BE REUSED/PLACED OVER AREAS TO BE SEEDED. THESE QUANTITIES WERE CALCULATED USING THE AREA WITHIN THE CONSTRUCTION LIMITS EXCLUDING PROPOSED ROADWAY/ENTRANCES AND AN ASSUMED DEPTH OF 5".
- COLUMN "C" - ESTIMATED VOLUME OF CUT MATERIAL PRODUCED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THESE QUANTITIES WERE CALCULATED USING CROSS SECTION END AREAS AND DO NOT INCLUDE TOPSOIL VOLUME TO BE EXCAVATED.
- COLUMN "D" - ESTIMATED VOLUME OF CUT MATERIAL PRODUCED BY CONSTRUCTION INCLUDING TOPSOIL VOLUME (COLUMN A + C).
- COLUMN "E" - ESTIMATED VOLUME OF FILL MATERIAL REQUIRED TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THESE QUANTITIES WERE CALCULATED USING CROSS SECTION END AREAS, A SHRINKAGE FACTOR OF 1.25, AND INCLUDE TOPSOIL VOLUME TO BE PLACED OVER AREAS TO BE SEEDED.
- COLUMN "F" - ESTIMATED EARTHWORK MATERIAL BALANCE INCLUDING TOPSOIL VOLUME (COLUMN D - E).

ENTRANCE SCHEDULE

TYPE	LOCATION	AGGREGATE BASE COURSE, TYPE A	PORTLAND CEMENT CONCRETE PAVEMENT, 7"	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6"	WELDED WIRE REINFORCEMENT	AGGREGATE FOR TEMPORARY ACCESS
		TON	SQ YD	SQ YD	SQ YD	TON
PE #1	STA 101+36.93 RT	6.5		28.5		6.5
PE #2	STA 102+41.45 RT	7.4		32.4		7.4
PE #3	STA 103+78.26 RT	7.0		30.8		7.0
CE #4	STA 106+08.03 LT	13.1	57.6		57.6	13.1
PE #5	STA 106+98.92 RT	6.9		30.1		6.9
CE #5A	STA 107+11.80 LT	4.9		21.6		4.9
PE #7	STA 108+31.07 RT	5.7		25.2		5.7
PE #14	STA 110+00.00 RT	5.7		25.2		
CE #8	STA 110+29.36 LT	6.0		26.3		6.0
CE #9	STA 111+66.65 LT	30.9	135.7		135.7	30.9
PE #10	STA 111+93.08 RT	6.3		27.6		6.3
PE #11	STA 112+94.33 LT	10.3		45.3		10.3
CE #13	STA 114+62.41 RT	12.7		55.6		12.7
PE #12	STA 115+23.60 LT	5.7		25.2		5.7
TOTAL		129.1	193.3	373.8	193.3	123.4
USE		130	194	374	194	123

PAVING SCHEDULE

LOCATION	PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	AGGREGATE BASE COURSE, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19, N70	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	AGGREGATE SHOULDERS, TYPE A	COMBINATION CURB AND GUTTER, TYPE B-6.18
	SQ YD	FOOT	SQ YD	TON	POUND	TON	POUND	TON	CU YD	FOOT
STA 100+94.81 RT TO STA 106+00.00 RT	1366.8	33.1	2409.6	1387.2	4264.4	318.4	426.4	159.2		483.8
STA 100+94.81 LT TO STA 106+00.00 LT		19.0								503.9
STA 106+00.00 RT TO STA 111+00.00 RT	1357.6		2226.3	1314.0	4250.0	317.3	425.0	158.7	19.0	122.7
STA 106+00.00 LT TO STA 111+00.00 LT										115.7
STA 111+00.00 RT TO STA 116+00.00 RT	1345.9		2166.7	1290.7	4250.0	317.3	425.0	158.7	25.6	
STA 111+00.00 LT TO STA 116+00.00 LT										25.6
STA 116+00.00 RT TO STA 118+64.78 RT	368.5		749.1	462.6	1523.1	113.7	152.3	56.9	17.0	
STA 116+00.00 LT TO STA 118+64.78 LT										14.6
TOTAL	4438.8	52.1	7551.7	4454.5	14287.5	1066.7	1428.7	533.5	120.8	1226.1
USE	4,440	53	7,552	4,455	14,290	1,070	1,430	535	121	1227

NOTES:

- AGGREGATE BASE COURSE QUANTITIES INCLUDE 12" DEPTH UNDER PAVEMENT, AND 7" DEPTH UNDER CURB AND GUTTER SECTIONS (STA 100+94.81 TO STA 107+27.81).
- 16.5" DEPTH WAS USED FOR AGGREGATE SHOULDERS QUANTITIES.



DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:



SCHEDULES OF QUANTITIES	
SCALE:	SHEET NO. 1 OF 5 SHEETS
STA.	TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	8
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

DRAINAGE SCHEDULE

ENTRANCE	LOCATION	PIPE CULVERT REMOVAL	CONCRETE HEADWALL REMOVAL	MANHOLES TO BE ADJUSTED	REMOVE INLET BOX	INLETS, SPECIAL	MAN-HOLE, SPECIAL	STORM SEWERS, CLASS A, TYPE 1, 12"	STORM SEWERS, CLASS A, TYPE 1, 15"	STORM SEWERS, CLASS A, TYPE 1, 18"	STORM SEWERS, CLASS A, TYPE 1 EQUIV. ROUND-SIZE 24"	PIPE CULVERTS, CLASS C, TYPE 1, 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	ALUMINUM FLARED END SECTIONS, 12"	PRECAST CONC. BOX CULVERT 4'X2'	BOX CULVERT END SECTIONS, CULVERT NO. 1	BOX CULVERT END SECTIONS, CULVERT NO. 2	TRENCH BACK-FILL	INLET AND PIPE PROT.	STONE RIPRAP, CLASS A3	FILTER FABRIC	
		FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH	CU YD	EACH	SQ YD	SQ YD	
	INV EL																					
	STA 100+97.81 27.20' LT 391.85						1													1		
	STA 100+99.38 26.93' LT 391.85 TO STA 101+37.46 20.45' LT 391.65										38.6								9.6			
PE #1	STA 101+25.43 28.81' RT 391.97 TO STA 101+48.10 29.04' RT 391.80	20.2										22.7		2					5.2	1		
	STA 101+40.06 20.50' LT 391.65					1														1		
	STA 101+42.99 24.96' RT			1																		
	STA 101+43.06 20.50' LT 391.65 TO STA 101+96.79 20.50' LT 391.36										53.7								26.7			
	STA 101+43.12 3.98' RT			1																		
	STA 101+45.44 23.80' RT			1																		
	STA 101+99.79 20.50' LT 391.36					1														1		
	STA 101+99.79 18.50' LT 391.36 TO STA 101+99.97 8.09' LT 391.30										10.4								3.4			
	STA 102+00.00 6.09' LT 391.30						1													1		
	STA 102+02.00 6.09' LT 391.30 TO STA 102+64.34 6.10' LT 390.98										62.3								20.4			
PE #2	STA 102+30.46 29.91' RT 391.23 TO STA 102+52.05 30.14' RT 391.08	27.6										21.6		2					6.5	1		
	STA 102+38.16 26.28' LT 392.27 TO STA 102+63.55 20.40' LT 391.04							26.1					1						3.1	1	25.4	25.4
	STA 102+66.13 20.50' LT 391.04					1														1		
	STA 102+66.12 18.50' LT 391.04 TO STA 102+66.30 8.09' LT 390.98							10.4											1.9			
	STA 102+66.33 6.09' LT 390.98						1													1		
	STA 102+68.33 6.10' LT 390.98 TO STA 103+30.38 6.12' LT 390.66										62.1								20.3			
	STA 102+83.19 25.07' RT			1																		
	STA 102+93.15 4.21' RT			1																		
BOX CULV. 1	STA 103+32.79 18.50' LT 390.72 TO STA 103+32.82 25.50' RT 390.51	112.1													44.0	2			71.4	2	11.7	11.7
	STA 103+35.29 21.00' LT 390.72 TO STA 104+27.09 20.31' LT 391.23									91.8									30.0			
PE #3	STA 103+35.23 20.25' RT 390.54 TO STA 103+91.37 20.25' RT 390.85	35.8							56.1										27.9			
	STA 103+37.83 4.16' RT			1																		
	STA 103+94.37 20.25' RT 390.85					1														1		
	STA 103+94.38 22.00' RT 390.85 TO STA 103+94.43 29.02' RT 390.90							7.0														
	STA 103+94.44 30.52' RT 390.90						1													1		
	STA 103+95.94 30.51' RT 390.90 TO STA 104+05.37 30.45' RT 390.97							9.4					1							1		
	STA 103+97.37 20.25' RT 390.85 TO STA 104+82.39 20.25' RT 391.90							85.0											19.9			
	STA 104+19.93 27.43' LT				1																	
	STA 104+30.09 20.25' LT 391.23					1														1		
	STA 104+33.09 20.31' LT 391.23 TO STA 104+77.07 20.22' LT 391.48									44.0										14.4		
	STA 104+80.07 20.25' LT 391.48						1													1		
	STA 104+83.07 20.27' LT 391.48 TO STA 105+27.09 20.22' LT 391.73									44.0										14.4		
	STA 104+85.39 20.25' RT 391.90					1														1		

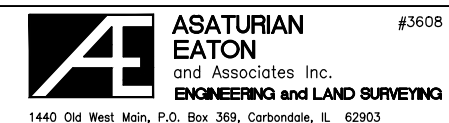
SEE NEXT SHEET FOR CONTINUATION.

 <p>CARBONDALE ILLINOIS Public Works 200 South Illinois Avenue Carbondale, IL 62901 (618) 457-3270</p>	 <p>ASATURIAN EATON #3608 and Associates Inc. ENGINEERING and LAND SURVEYING 1440 Old West Main, P.O. Box 369, Carbondale, IL 62903</p>	DESIGNED BY: PS	REVISED:	SCHEDULES OF QUANTITIES				ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
		DRAWN BY: AW	REVISED:					FAU 9715	18-00138-00-FP	JACKSON	65	9
		CHECKED BY: PS	REVISED:					STATION: 100+94.81 TO STATION: 118+64.78				
		DATE: 04-01-22	REVISED:					CITY OF CARBONDALE	CONTRACT NO. 99689			
		SCALE:	SHEET NO. 2 OF 5 SHEETS	STA.	TO STA.							

DRAINAGE SCHEDULE CONTINUED

ENTRANCE	LOCATION		PIPE CULVERT REMOVAL	CONCRETE HEADWALL REMOVAL	MANHOLES TO BE ADJUSTED	REMOVE INLET BOX	INLETS, SPECIAL	MAN-HOLE, SPECIAL	STORM SEWERS, CLASS A, TYPE 1, 12"	STORM SEWERS, CLASS A, TYPE 1, 15"	STORM SEWERS, CLASS A, TYPE 1, 18"	STORM SEWERS, CLASS A, TYPE 1 EQUIV. ROUND-SIZE 24"	PIPE CULVERTS, CLASS C, TYPE 1, 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	ALUMINUM FLARED END SECTIONS, 12"	PRECAST CONC. BOX CULVERT 4'X2'	BOX CULVERT END SECTIONS, CULVERT NO. 1	BOX CULVERT END SECTIONS, CULVERT NO. 2	TRENCH BACK-FILL	INLET AND PIPE PROT.	STONE RIPRAP, CLASS A3	FILTER FABRIC			
	INV EL	INV EL	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH	CU YD	EACH	SQ YD	SQ YD			
	STA 104+88.39	20.21' RT 391.90	TO	STA 105+62.40	20.25' RT 392.70				74.0										17.3						
CE #4	STA 105+33.09	20.27' LT 391.73	TO	STA 106+33.97	24.60' LT 392.26	93.1	1				101.0								49.0						
	STA 105+65.40	20.25' RT 392.70						1												1					
	STA 105+68.40	20.25' RT 392.70	TO	STA 106+42.54	20.25' RT 393.50				74.1										17.4						
	STA 106+35.47	24.67' LT 392.26					1	1												1					
CE #5A	STA 106+36.97	24.71' LT 392.26	TO	STA 107+22.37	26.88' LT 392.70	91.9					85.4								39.5						
	STA 106+45.54	20.25' RT 393.50						1												1					
PE #5	STA 106+48.54	20.25' RT 393.50	TO	STA 107+24.17	26.32' RT 394.22	33.5			75.9					1					18.5	1					
	STA 107+23.87	26.92' LT 392.70						1												1					
	STA 107+24.10	28.40' LT 394.70	TO	STA 107+25.58	38.14' LT 394.28				9.9					1						1					
	STA 107+25.37	26.91' LT 392.70	TO	STA 107+34.30	26.87' LT 393.79				8.9					1						1					
	STA 107+36.71	3.72' RT						1																	
	STA 108+15.81	18.24' LT				29.9													4.0						
PE #7	STA 108+17.21	26.99' RT 394.70	TO	STA 108+44.64	26.76' RT 394.83	41.4							27.4		2				11.8	1					
PE #14	STA 109+90.92	25.34' RT 395.56	TO	STA 110+08.89	25.02' RT 395.65								18.0		2				3.3	1					
CE #8	STA 110+29.36	18.29' LT				35.1													3.8						
	STA 111+37.63	3.50' RT						1																	
CE #9	STA 111+39.15	23.90' LT 395.65	TO	STA 111+95.49	25.39' LT 394.95	59.2			56.4					2					15.1	1					
PE #10	STA 111+93.08	14.56' RT				20.8													2.4						
PE #11	STA 112+79.41	27.61' LT 393.92	TO	STA 113+13.53	28.52' LT 393.49	27.4							34.1		2				8.8	1					
BOX CULV. 2	STA 113+67.14	21.50' LT 392.79	TO	STA 113+67.14	22.50' RT 392.60	76.3										44.0		2		1	45.8	45.8			
PE #13	STA 114+43.27	28.27' RT 393.25	TO	STA 114+81.54	27.27' RT 393.59	41.0							38.3		2				11.4	1					
PE #12	STA 115+12.06	25.45' LT 394.25	TO	STA 115+34.58	24.98' LT 394.47	25.0							22.5		2				6.1	1					
	STA 115+36.09	0.79' RT						1																	
					TOTAL	770.3	1	9	2	11	5	437.1	56.1	366.2	227.1	184.6	7	14	88.0	2	2	483.5	32	82.9	82.9
					USE	771	1	9	2	11	5	438	57	367	228	185	7	14	88	2	2	484	32	83	83

NOTES:
 TRENCH BACKFILL QUANTITIES INCLUDE WHAT IS REQUIRED TO FILL VOIDS LEFT FROM EXISTING CULVERT REMOVAL DUE TO PROXIMITY TO PROPOSED PAVEMENT.
 ALL TRENCH BACKFILL QUANTITIES WERE CALCULATED TO A DEPTH OF 4" BELOW PIPE INVERT AND A WIDTH OF 9" ON EACH SIDE, PER DETAIL 1/SHEET 14.



#3608

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

SCHEDULES OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	10
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		
SCALE:	SHEET NO. 3 OF 5 SHEETS	STA.	TO STA.	

EROSION CONTROL AND SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET
	ACRE	POUND	POUND	POUND	ACRE	POUND	FOOT	FOOT	SQ YD
STA 100+94.81 RT TO STA 106+00.00 RT	0.20	18.1	18.1	18.1	0.20	40.1	112	631.8	971.6
STA 100+94.81 LT TO STA 106+00.00 LT	0.15	13.7	13.7	13.7	0.15	30.4	16		736.7
STA 106+00.00 RT TO STA 111+00.00 RT	0.16	14.5	14.5	14.5	0.16	32.2	32	500.0	780.3
STA 106+00.00 LT TO STA 111+00.00 LT	0.14	13.0	13.0	13.0	0.14	28.9	32		700.3
STA 111+00.00 RT TO STA 116+00.00 RT	0.22	19.5	19.5	19.5	0.22	43.3	96	729.4	1048.7
STA 111+00.00 LT TO STA 116+00.00 LT	0.18	16.5	16.5	16.5	0.18	36.7	96		888.6
STA 116+00.00 RT TO STA 118+64.78 RT	0.09	8.3	8.3	8.3	0.09	18.5	32	191.5	447.0
STA 116+00.00 LT TO STA 118+64.78 LT	0.05	4.2	4.2	4.2	0.05	9.3	16		224.8
TOTAL	1.2	107.8	107.8	107.8	1.2	239.4	432	2052.7	5798.0
USE	1.2	108	108	108	1.2	240	432	2200	5800

FENCE SCHEDULE

LOCATION	WOVEN WIRE FENCE REMOVAL	FENCE REMOVAL	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	WOVEN WIRE FENCE, 4'	WOOD POST AND RAIL FENCE
	FOOT	FOOT	FOOT	FOOT	FOOT
STA 102+57.08 22.86' RT TO STA 103+10.21 21.70' RT			52.0		
STA 102+35.79 26.26' LT TO STA 105+05.04 28.37' LT	276.0				
STA 102+35.75 31.00' LT TO STA 105+05.04 31.00' LT				269.3	
STA 107+26.30 25.57' LT TO STA 108+04.57 26.21' LT		78.3			
STA 108+27.11 26.25' LT TO STA 110+16.80 26.01' LT		189.7			
STA 110+46.83 26.13' LT TO STA 111+47.60 27.03' LT		100.8			
STA 111+85.04 37.10' LT TO STA 112+72.97 25.89' LT		94.0			
STA 113+13.28 26.27' LT TO STA 113+44.47 25.77' LT		31.2			
STA 107+31.53 37.00' LT TO STA 110+17.08 31.97' LT					286.5
STA 110+41.60 31.97' LT TO STA 111+30.01 31.96' LT					88.4
STA 111+85.04 37.10' LT TO STA 112+72.97 37.00' LT					87.9
STA 113+13.28 37.50' LT TO STA 113+44.47 37.50' LT					31.2
TOTAL	276.0	494.0	52.0	269.3	494.0
USE	276	495	52	270	500



#3608

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

SCHEDULES OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	11
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

PAVEMENT MARKING SCHEDULE

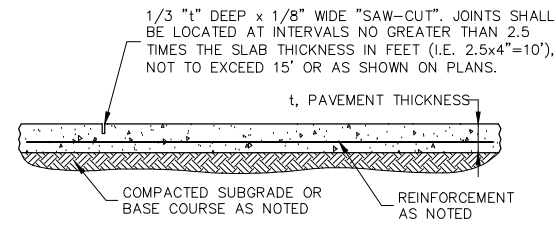
LOCATION	PAVEMENT MARKING REMOVAL – WATER BLASTING	PAINT PAVEMENT MARKING – LINE, 4"		PAINT PAVEMENT MARKING – LETTERS AND SYMBOLS	
		YELLOW	WHITE	WHITE	
		SQ FT	FOOT	FOOT	SQ FT
LEFT EDGE (SOLID)					
STA 100+97.81 12.00' LT TO STA 117+29.94 12.00' LT			1632.1		
STA 117+29.94 12.00' LT TO STA 118+11.69 13.52' LT			81.8		
STA 117+27.62 11.11' LT TO STA 118+11.69 13.52' LT	28.3				
LEFT EDGE (STRIPED AREA)					
STA 117+29.94 LT TO STA 118+11.74 18.21' LT			95.0		
CENTER (SKIP DASH)					
STA 100+97.81 TO STA 117+29.94		408.1			
CENTER (SOLID)					
STA 117+29.94 TO STA 118+09.05 (WEST)		79.2			
STA 117+29.94 TO STA 118+09.05 (EAST)		79.2			
STA 117+27.04 TO STA 118+09.05 (DOUBLE STRIPE)	54.7				
RIGHT EDGE (SOLID)					
STA 100+97.81 12.00' RT TO STA 117+29.94 12.00' RT			1632.1		
STA 117+29.94 12.00' RT TO STA 118+09.02 8.92' RT			79.1		
RIGHT EDGE (STRIPED AREA)					
STA 117+29.94 RT TO STA 118+64.78 11.88' RT			150.0		
"BIKE LANE" PAVEMENT MARKINGS					
STA 101+09.05 14.50' LT AND 14.50' RT				40	
STA 105+00.00 14.50' LT AND 14.50' RT				40	
STA 109+00.00 14.50' LT AND 14.50' RT				40	
STA 113+00.00 14.50' LT AND 14.50' RT				40	
STA 117+00.00 14.50' LT AND 14.50' RT				40	
	TOTAL	83.0	566.5	3670.1	200
	USE	83	4240		200

TREE REMOVAL SCHEDULE

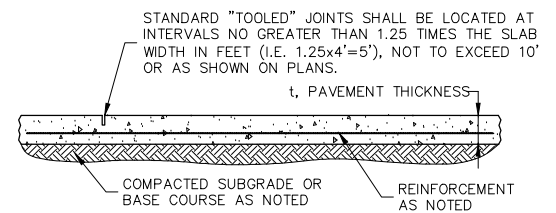
LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	TREE REMOVAL, ACRES	
			ACRE	
STA 105+28.53 20.38' RT	8			
STA 106+01.31 29.36' RT		16		
STA 106+20.10 28.87' RT		20		
STA 106+34.35 29.52' RT		20		
STA 108+59.43 20.92' RT	10			
STA 108+76.12 24.25' RT	13			
STA 108+86.59 27.67' RT	10			
STA 109+00.71 26.42' RT	12			
STA 110+97.70 26.81' RT		18		
STA 111+16.36 27.32' RT	14			
STA 111+17.50 25.92' RT	8			
STA 111+34.07 26.93' RT	14			
STA 111+52.16 26.02' RT	15			
STA 111+71.78 28.47' RT	15			
STA 112+05.10 26.89' RT		16		
STA 112+18.20 27.37' RT	14			
STA 112+34.31 26.73' RT	13			
STA 112+49.42 26.49' RT	13			
STA 112+65.55 28.18' RT	13			
STA 112+83.68 27.31' RT	14			
STA 113+04.84 27.38' RT	15			
STA 101+50.00 LT TO STA 102+50.00 LT			0.01	
	TOTAL	201	90	0.01
	USE	201	90	0.01

MAILBOX SCHEDULE

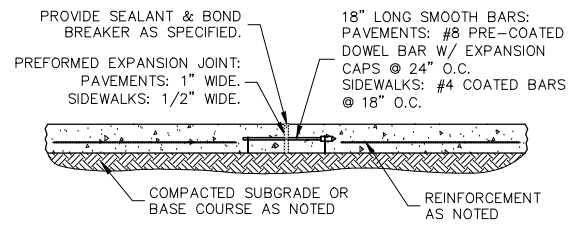
LOCATION	MAILBOX REMOVE AND REPLACE	
		EACH
STA 103+65.91 17.00' LT	1	
STA 112+06.91 15.93' LT	1	
STA 112+77.65 16.17' LT	1	
	TOTAL	3
	USE	3



"SAW-CUT" C.J. FOR PAVEMENTS, CURBS & LARGE SLABS



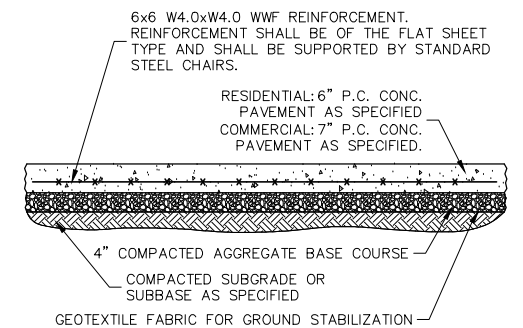
"TOOLED" C.J. FOR SIDEWALKS, PATIOS, DECORATIVE CONC., ETC.



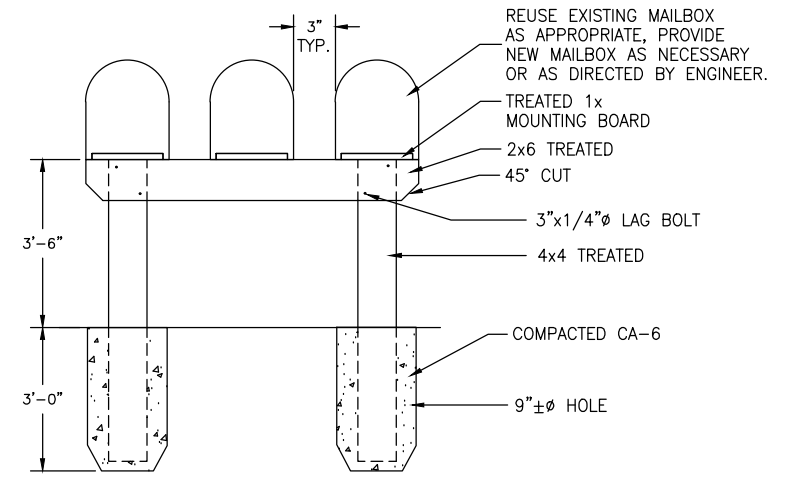
E.J. FOR ALL CONCRETE SIDEWALKS, PAVEMENTS, CURBS, ETC.

- EXPANSION JOINTS SHALL BE LOCATED:
1. A DISTANCE APART OF NO GREATER THAN 5 TIMES THE WIDTH OF THE PAVED AREA, OR AS SHOWN ON THE PLANS.
 2. IN ANY CASE JOINTS SHALL NOT BE GREATER THAN 30' APART FOR SIDEWALKS AND SHALL NOT BE GREATER THAN 60' APART FOR PAVEMENTS & CURBS.
 3. AT ALL STOOPS AND AT AREAS WHERE PAVEMENTS & WALKS MEET BUILDINGS.
 4. AT "COLD" JOINTS ON CONTINUOUS WALKS/PAVEMENTS, UNLESS OTHERWISE DIRECTED BY THE ARCHITECT/ENGINEER.

1 TYPICAL CONTROL & EXPANSION JOINTS FOR CONCRETE
13 NOT TO SCALE

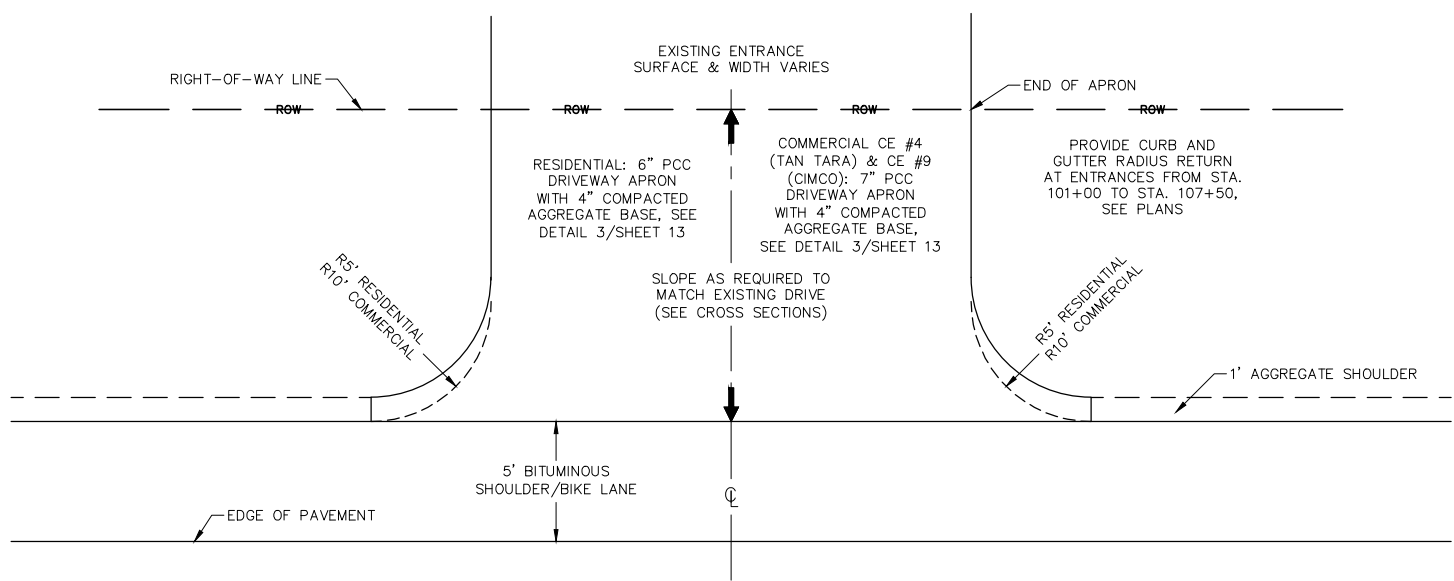


3 TYP. REINFORCED P.C. CONCRETE
13 NOT TO SCALE

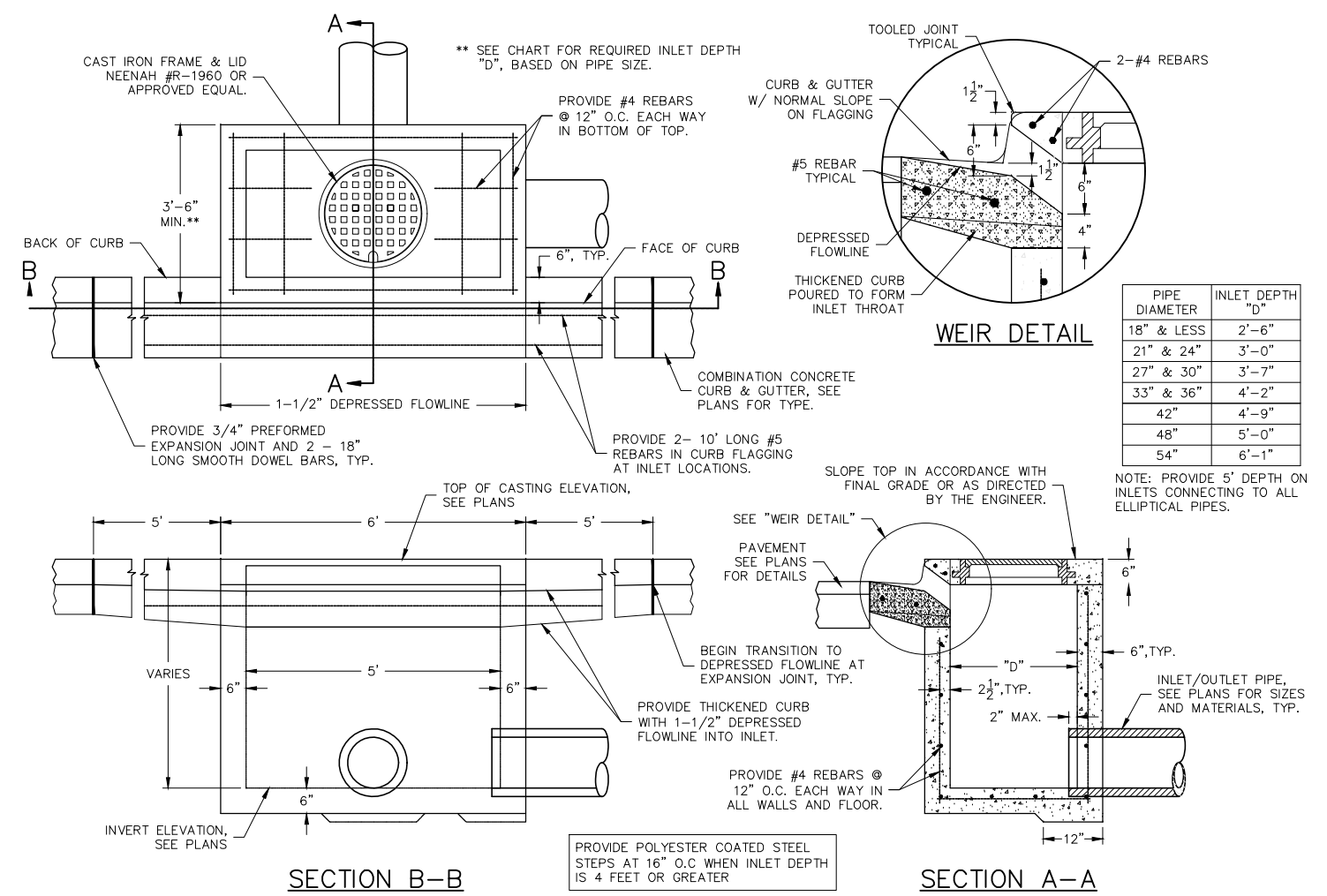


NOTE: AT SINGLE BOX LOCATIONS PROVIDE ONLY ONE POST. ALL WORK & BOXES ARE TO BE IN ACCORDANCE WITH U.S. POSTAL REQUIREMENTS.

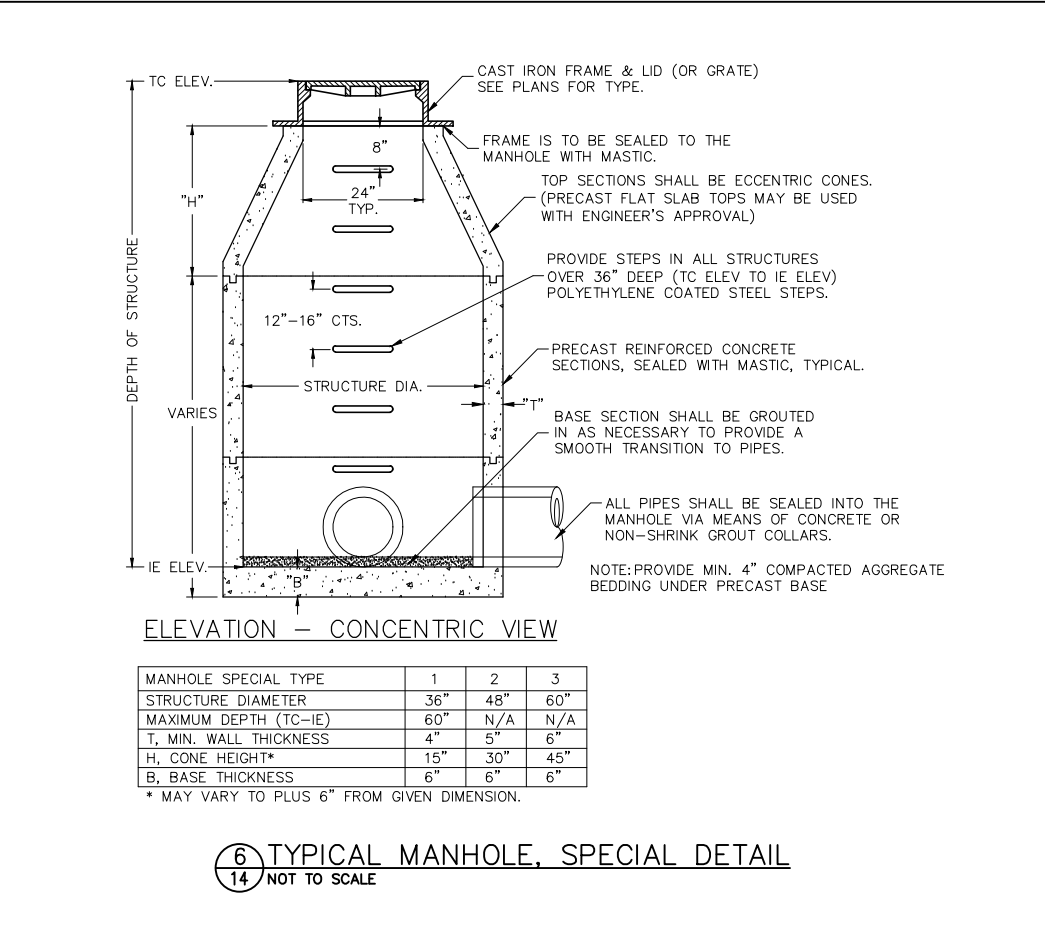
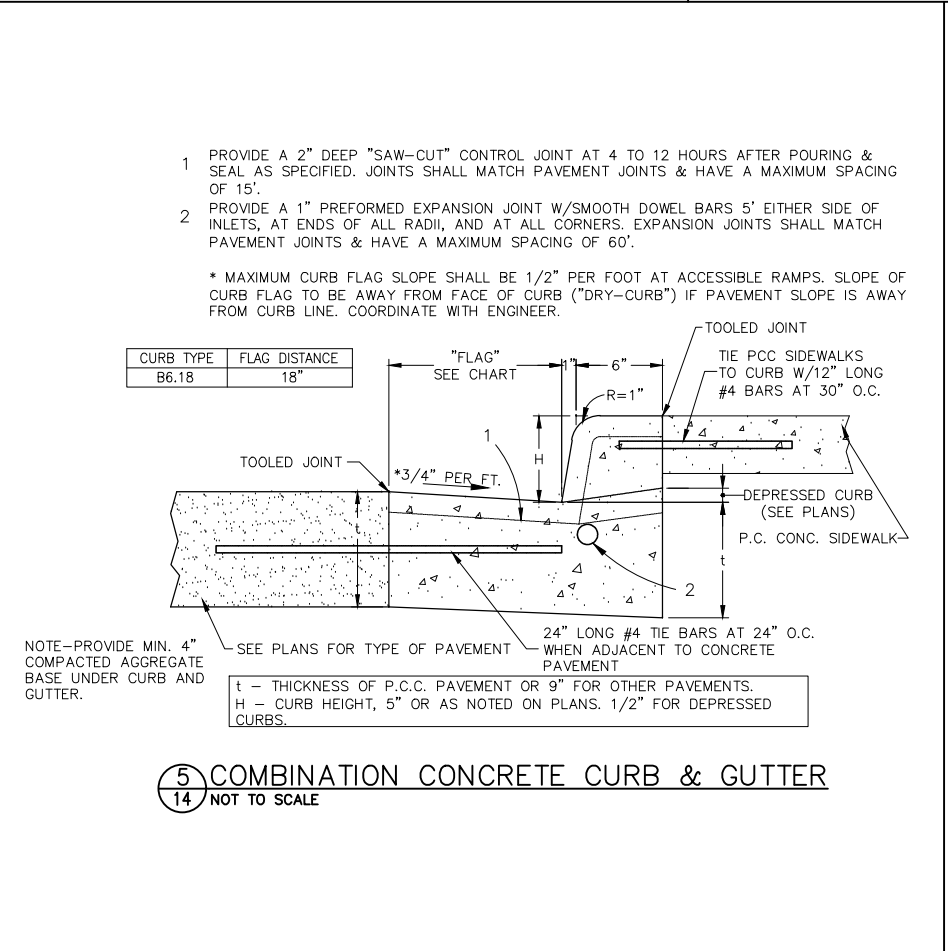
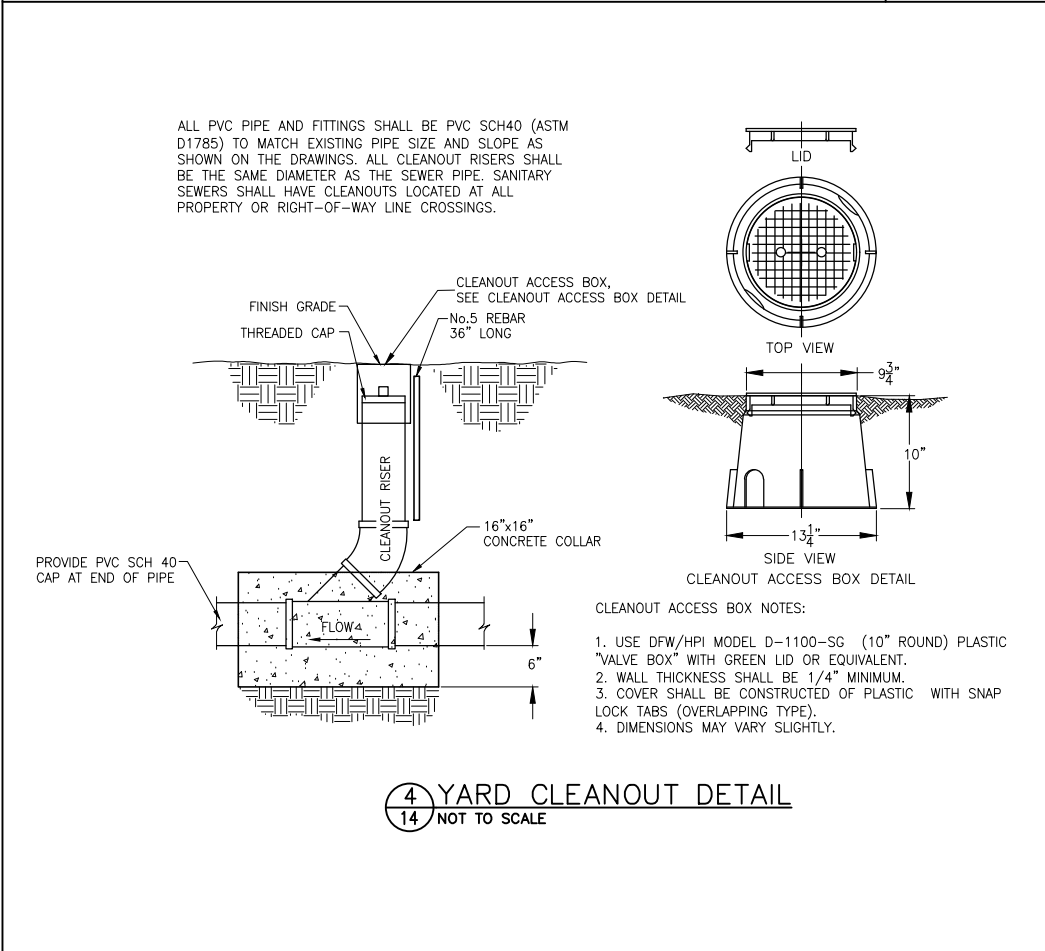
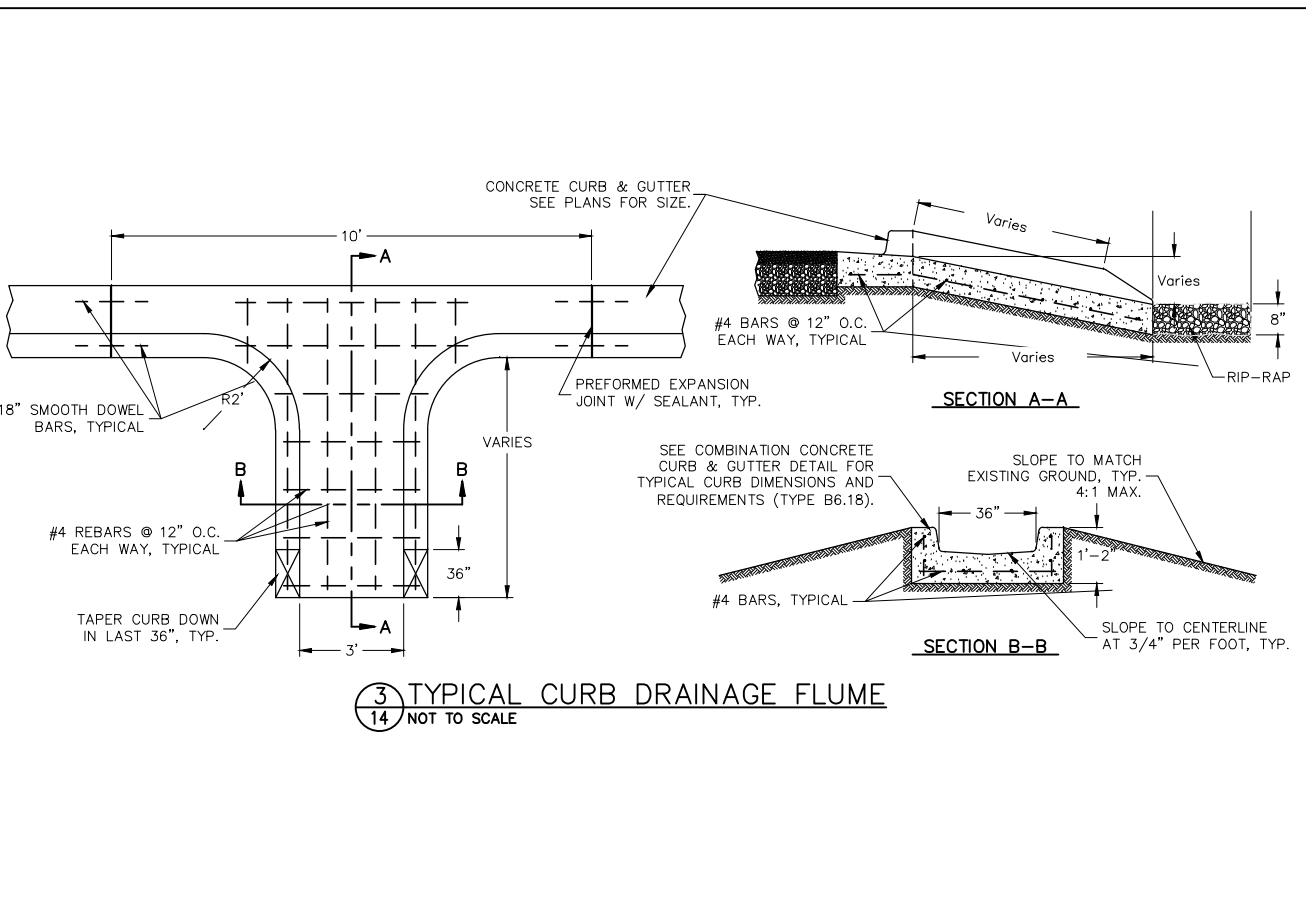
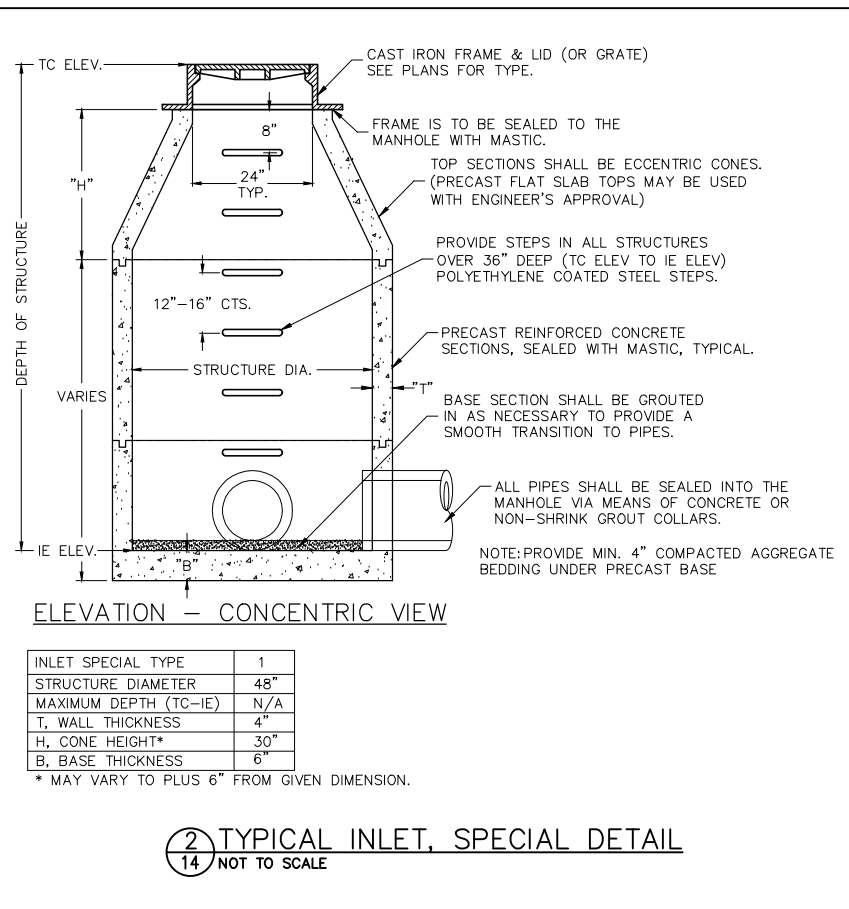
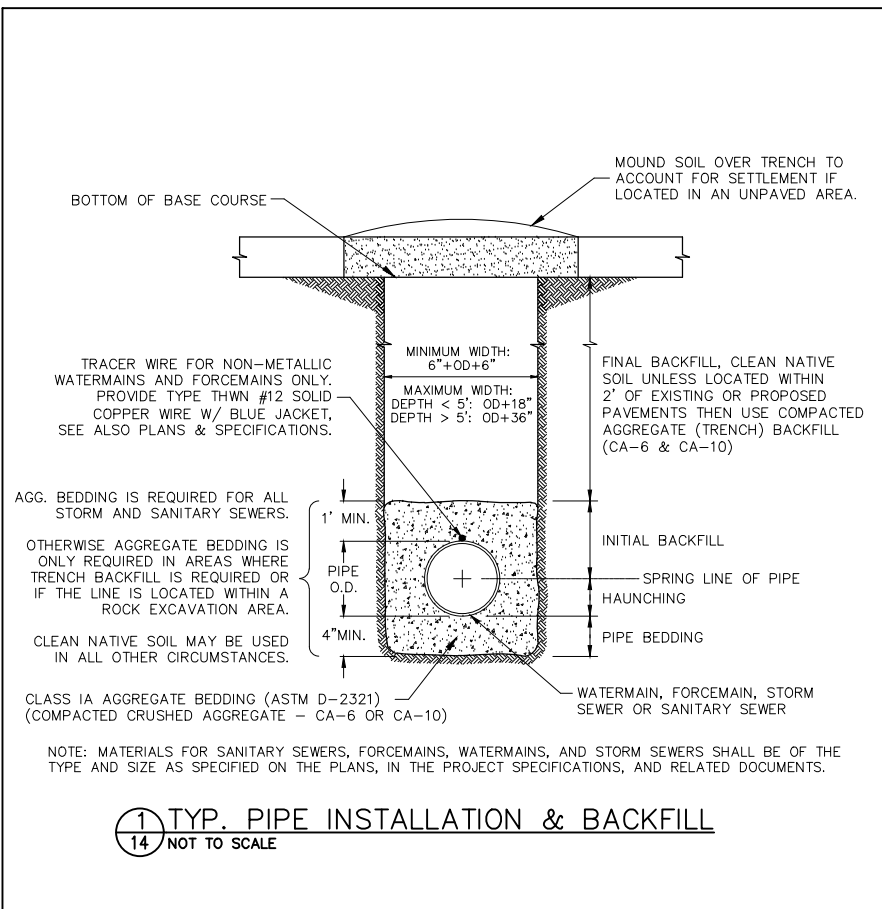
4 MAILBOX RELOCATION DETAILS
13 NOT TO SCALE

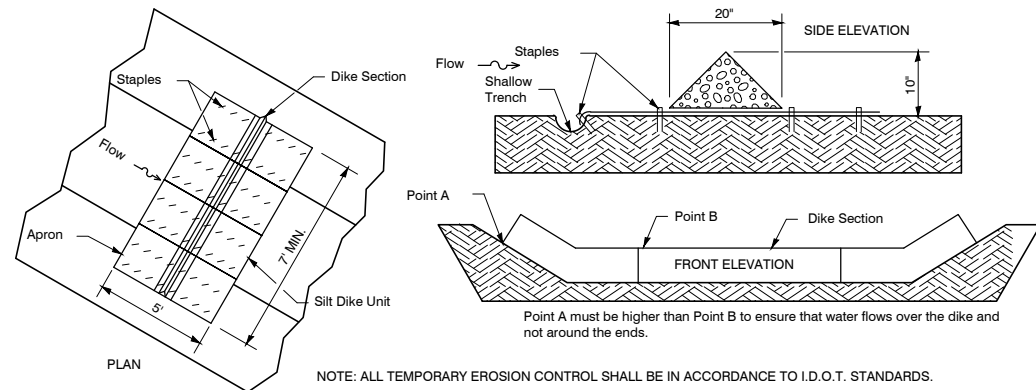


2 TYPICAL RESIDENTIAL OR COMMERCIAL ENTRANCE
13 NOT TO SCALE

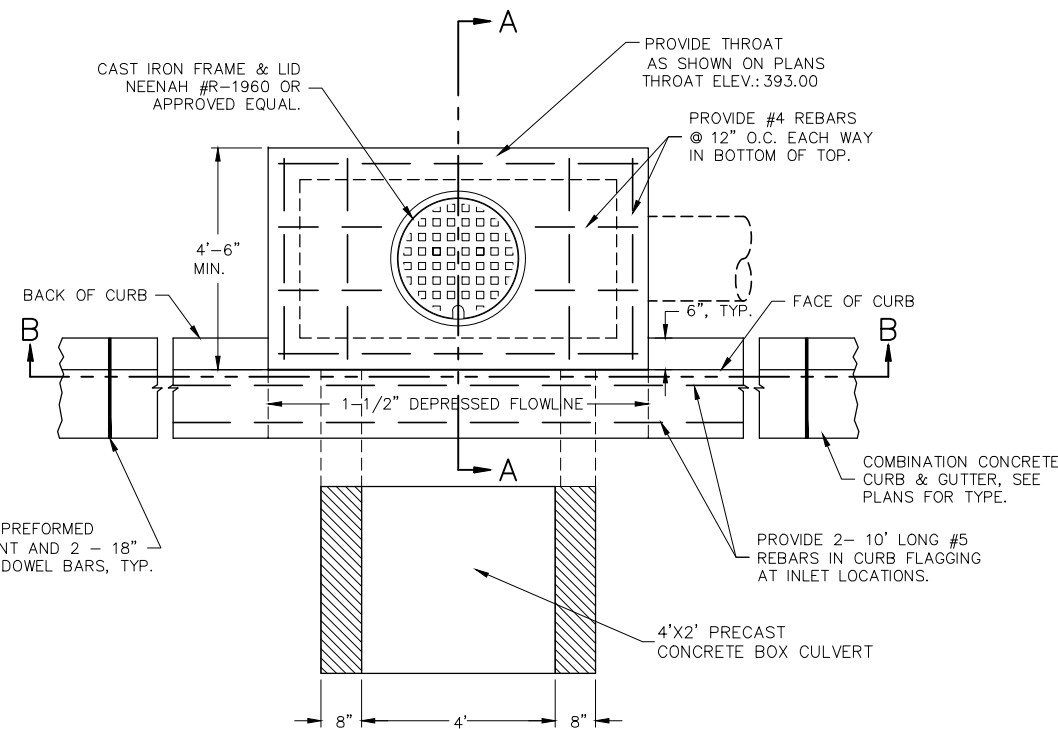


5 TYPICAL INLET SPECIAL TYPE 3 DETAIL
13 NOT TO SCALE

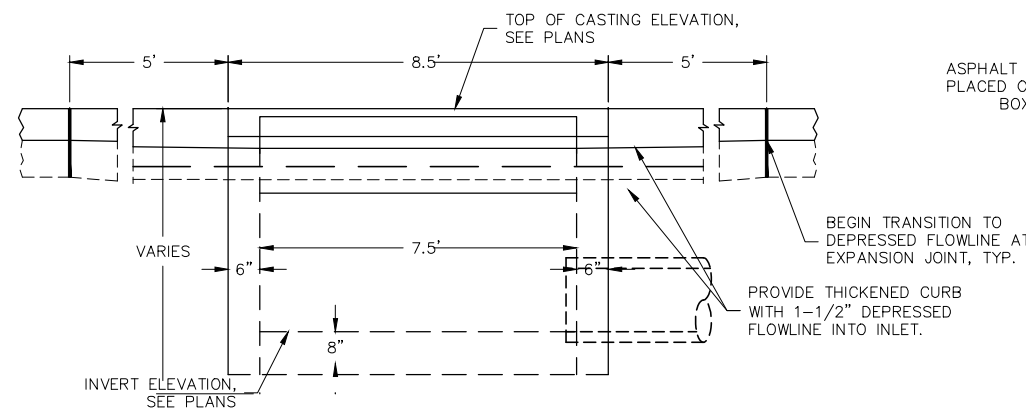




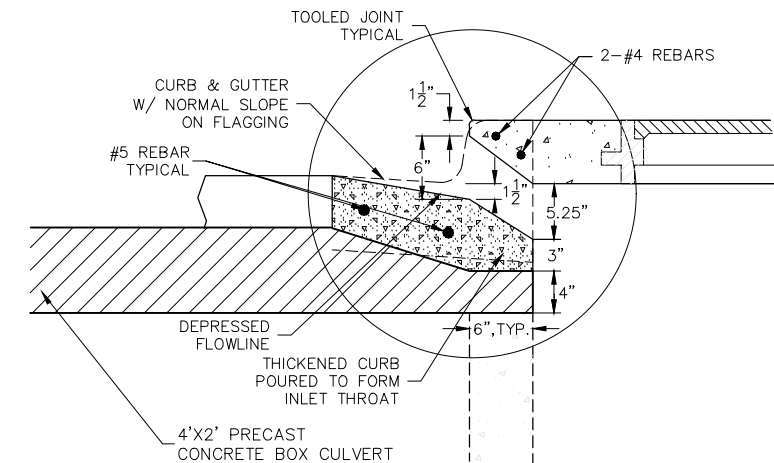
1 URETHANE FOAM/GEOTEXTILE DITCH CHECK
15 NOT TO SCALE



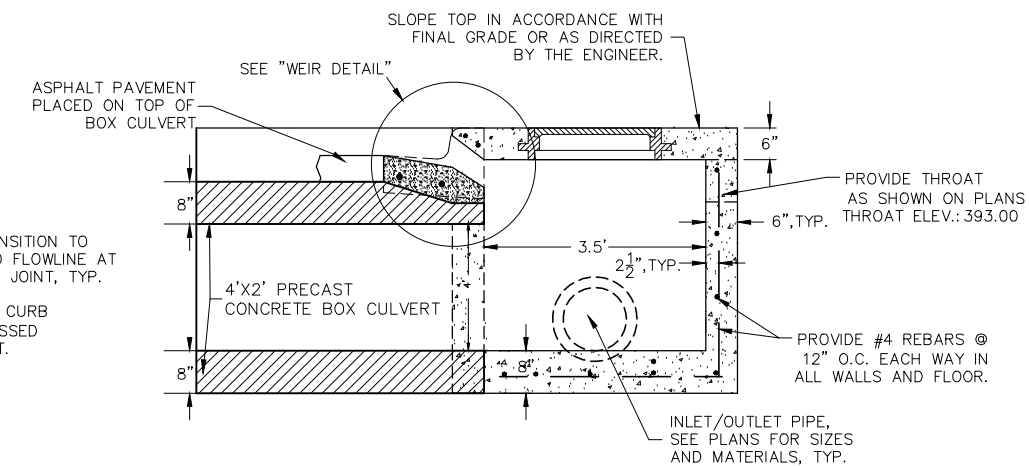
PROVIDE 3/4" PREFORMED EXPANSION JOINT AND 2 - 18" LONG SMOOTH DOWEL BARS, TYP.



SECTION B-B



WEIR DETAIL



SECTION A-A

PROVIDE POLYESTER COATED STEEL STEPS AT 16" O.C. WHEN INLET DEPTH IS 4 FEET OR GREATER

GENERAL NOTES

- A MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AT 28 DAYS.
- #4 REINFORCEMENT BARS SHALL BE PLACED AT 12" ON CENTER, EACH WAY IN ALL WALLS AND FLOORS OF THE STRUCTURE. BARS IN THE TOP SHALL BE #4 BARS, PLACED AS SHOWN. ALL WALLS SHALL BE TIED TO THE FLOOR VIA 12"x6" DEFORMED "L" BARS, SEE DETAILS.
- THIS STRUCTURE SHALL NOT BE USED IN TRAFFIC LOCATIONS (I.E. WITHIN STREETS, PARKING LOTS, ETC.)
- THE STRUCTURE MAY BE PRECAST OR MAY BE CAST IN PLACE. PRE-CAST STRUCTURES SHALL HAVE MASTIC SEALANT BETWEEN SECTIONS AS APPROVED BY THE ENGINEER. LIDS SHALL BE CAST SEPARATELY FROM STRUCTURE SECTIONS.
- THE DEPTH OF THE STRUCTURE SHALL BE VARIED TO FIT FIELD CONDITIONS.

2 BOX CULVERT NO.1 WEST END STRUCTURE DETAIL
15 NOT TO SCALE

GENERAL NOTES

The design fill height for this box is 0<3'. The precast box culvert sections shall conform to the requirements of ASTM C 1577 and IDOT Special Provision for Concrete Box Culverts with Skews > 30 Degrees and Design Fills ≤ 3 Feet.

Drain holes shall be provided on exterior culvert walls for each precast box segment with clear rise greater than 3ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch and shall conform to the requirements of Article 503.11 of the Standard Specification.

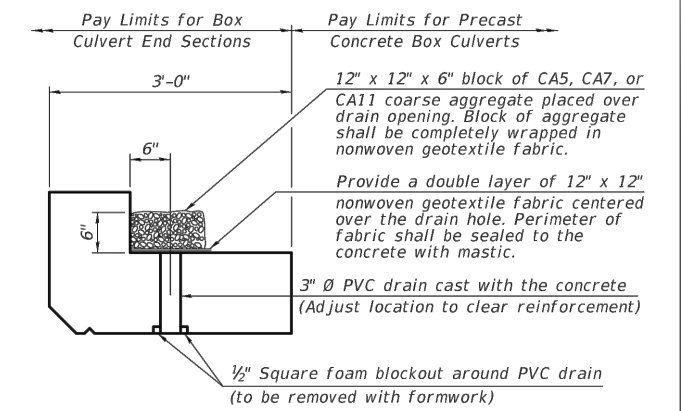
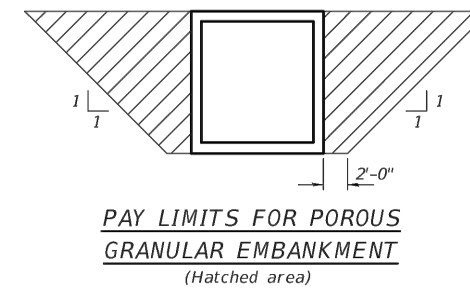
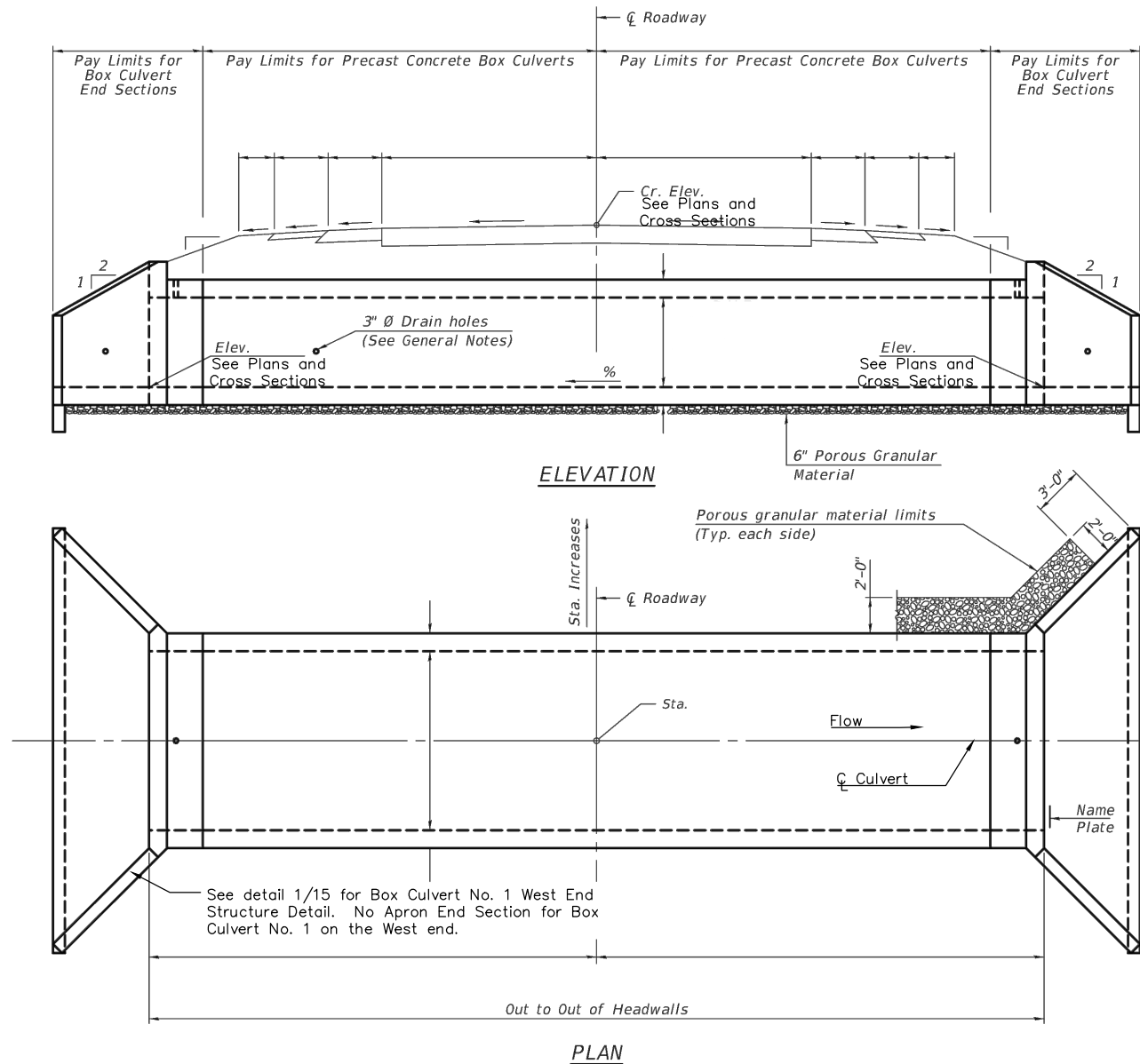
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE shall be included in the unit cost PRECAST CONCRETE BOX CULVERT 4'x2'. The 6 inch thick layer of porous granular material required under the precast box culvert, according to Section 540.06 of the Standard Specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price for which it is required.

Joints of the precast box sections shall be sealed in accordance with the IDOT standard specifications.

Lift holes shall be filled with lift plugs and mastic after box sections are in place.

Bell and Spigot ends shall be compatible.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

PROFILE GRADE

DESIGN SPECIFICATIONS

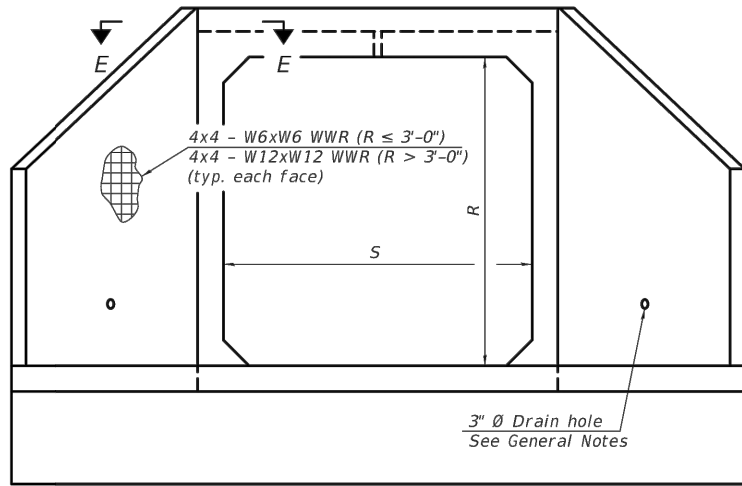
2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

LOADING HL-93

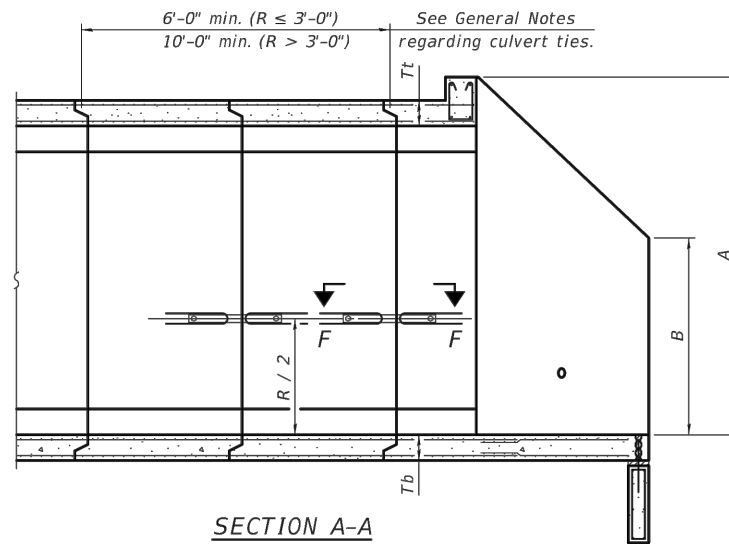
DESIGN STRESSES

PRECAST UNITS

$f'_c = 5,000 \text{ psi}$
 $f_y = 65,000 \text{ psi}$ (Welded Wire Reinforcement)



END VIEW



SECTION A-A

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

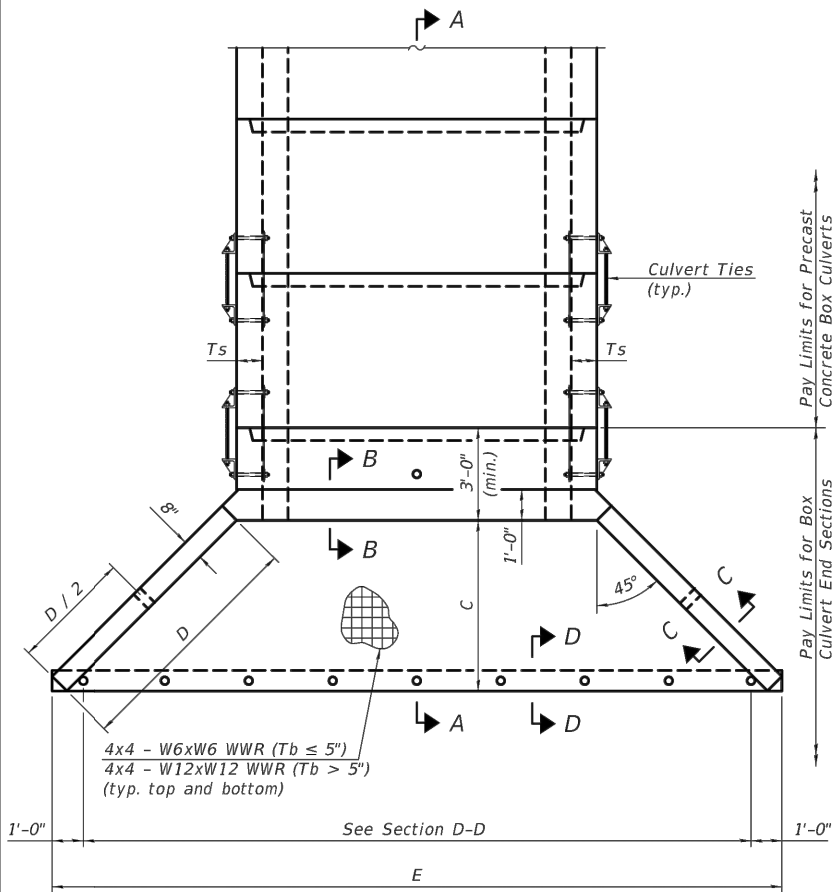
All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

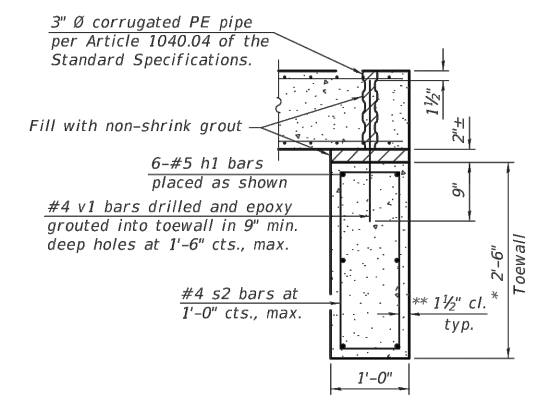
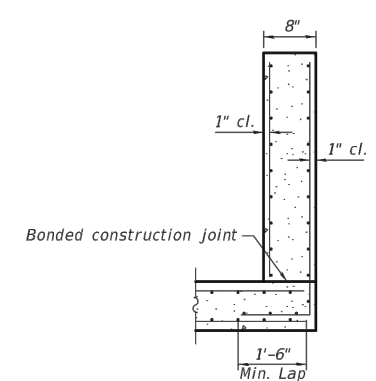
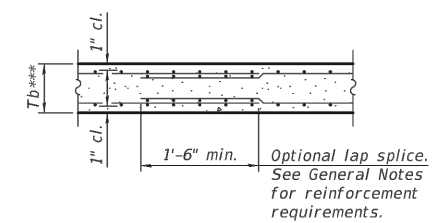
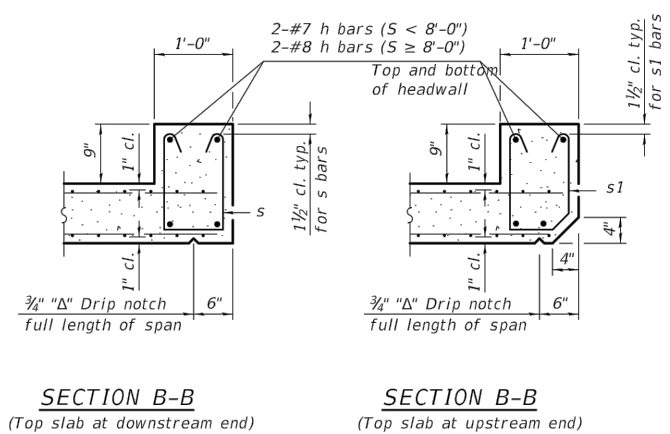
One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



PLAN

SCB-AES

2-17-2017



SECTION B-B
(Top slab at downstream end)

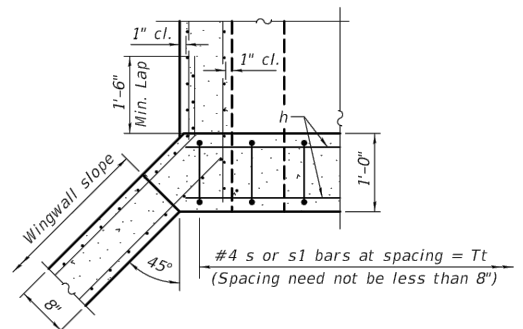
SECTION B-B
(Top slab at upstream end)

SECTION B-B
(Bottom Slab)

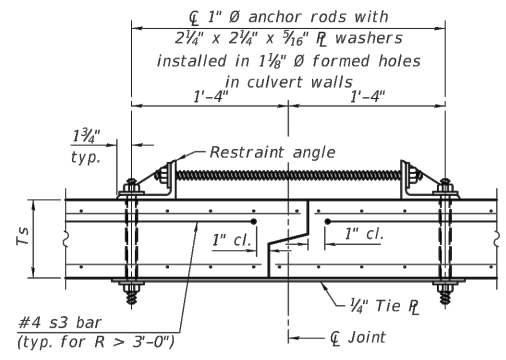
SECTION C-C

SECTION D-D

*** This dimension shall be increased by 2" for CIP construction.



SECTION E-E



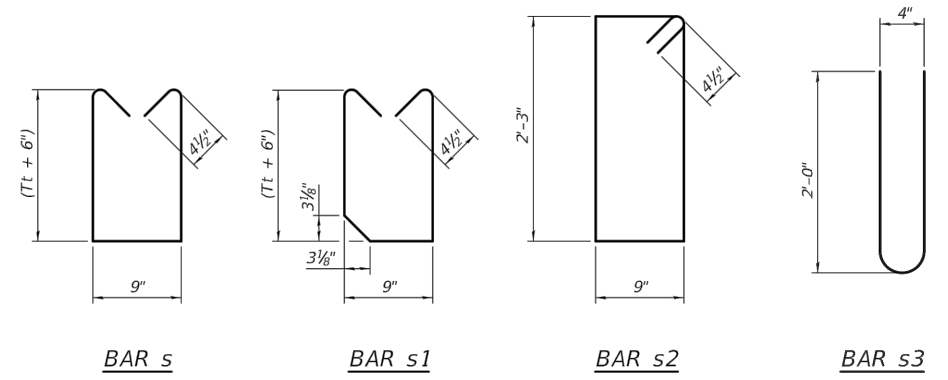
SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

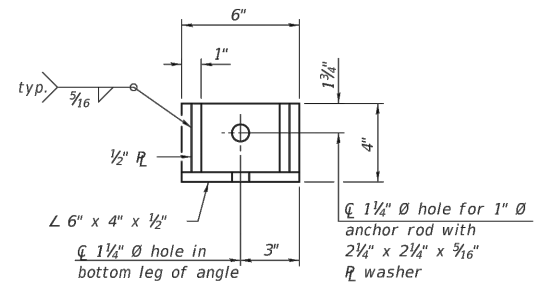


BAR s

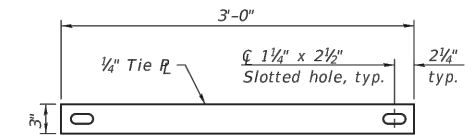
BAR s1

BAR s2

BAR s3



RESTRAINT ANGLE DETAIL



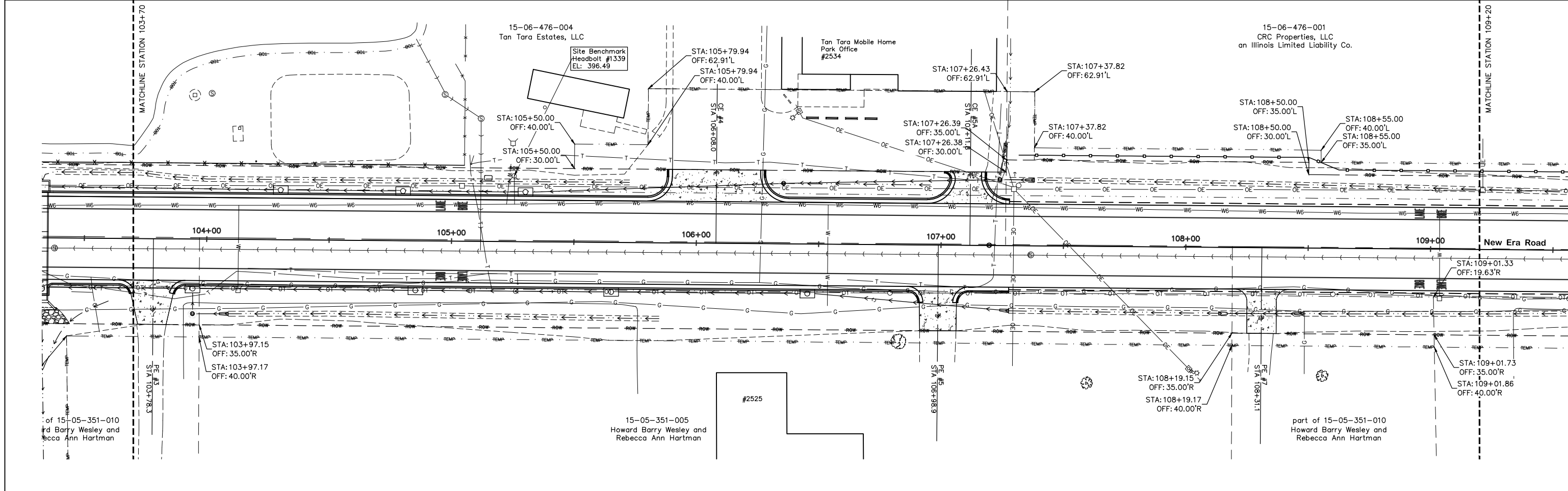
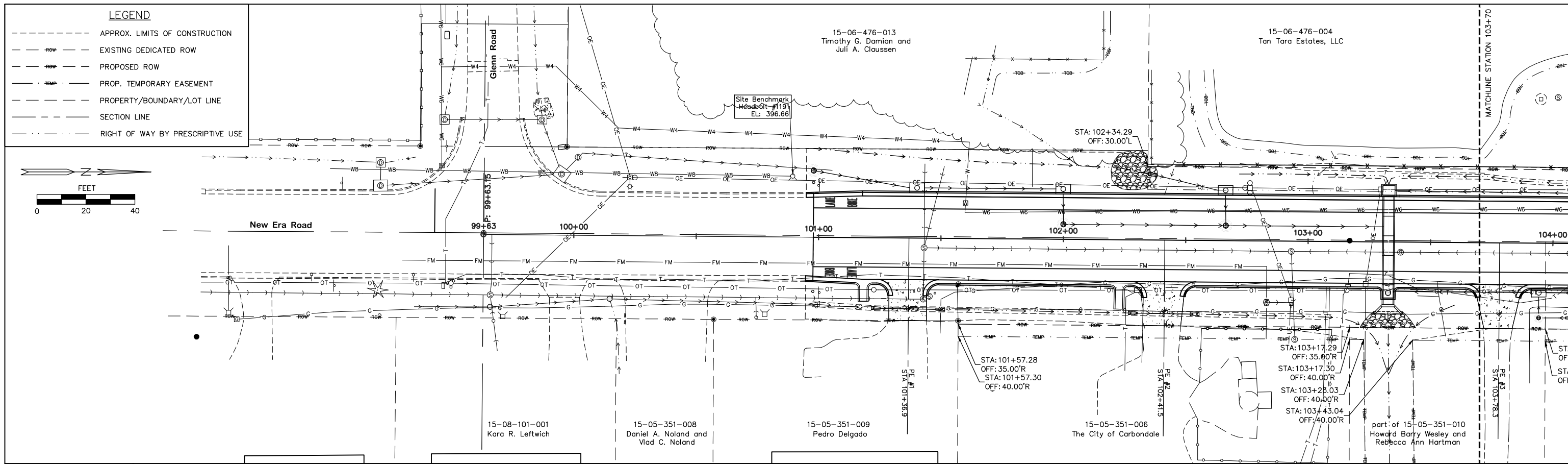
TIE PLATE DETAIL

Notes:
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

SCB-AES

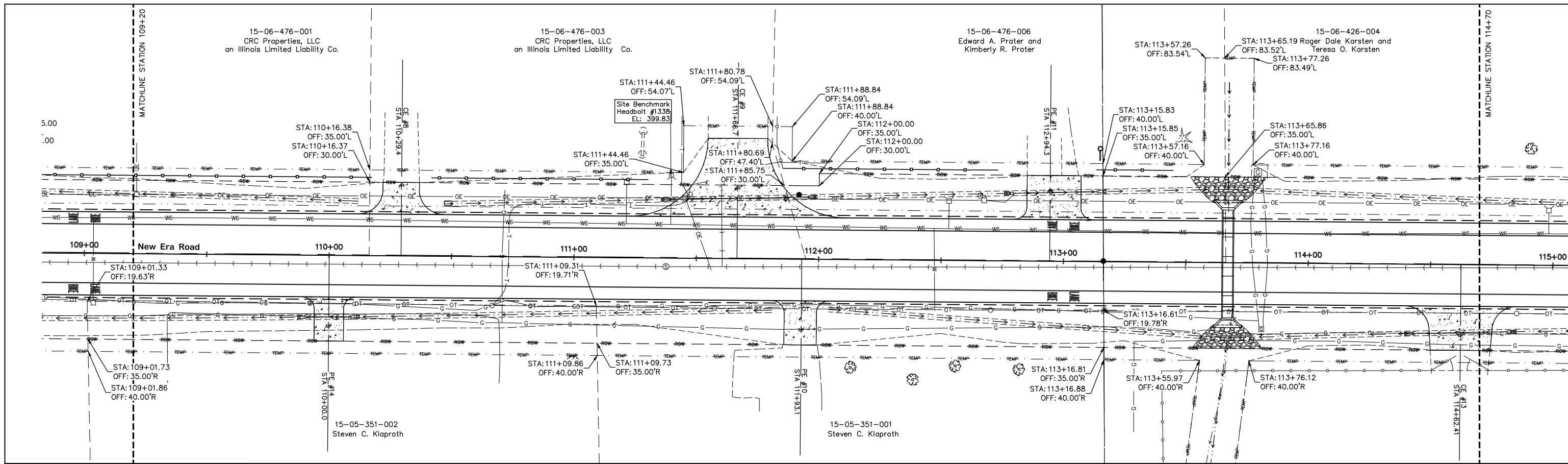
2-17-2017

(Sheet 2 of 2)



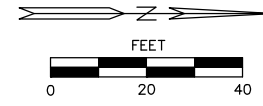
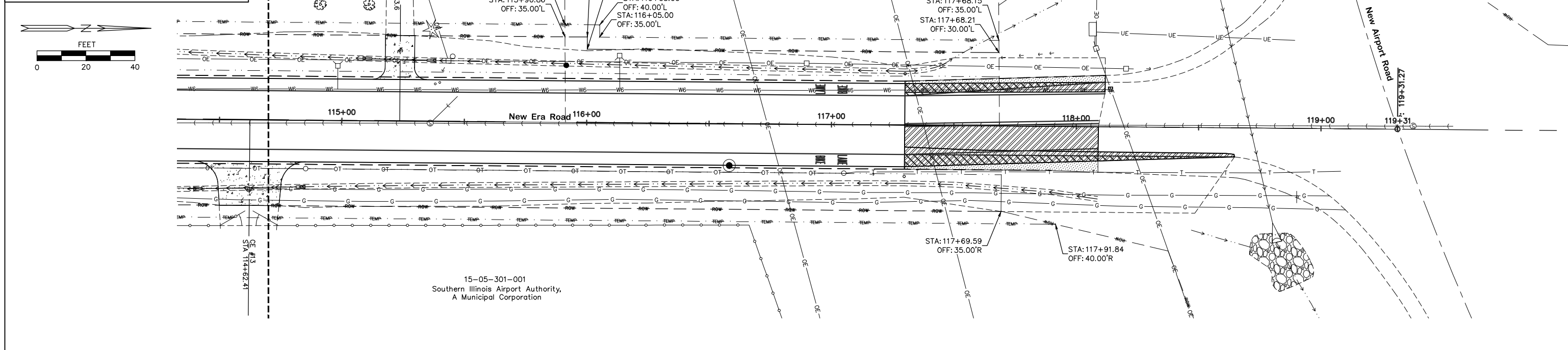
DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

OVERALL PLAN		ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
SCALE: 1"=40'		FAU 9715	18-00138-00-FP	JACKSON	65	19
SHEET NO. 1 OF 2 SHEETS		STATION: 100+94.81 TO STATION: 118+64.78		CITY OF CARBONDALE CONTRACT NO. 99689		
STA. TO STA.						



LEGEND

- APPROX. LIMITS OF CONSTRUCTION
- - - - - EXISTING DEDICATED ROW
- - - - - PROPOSED ROW
- - - - - PROP. TEMPORARY EASEMENT
- - - - - PROPERTY/BOUNDARY/LOT LINE
- - - - - SECTION LINE
- - - - - RIGHT OF WAY BY PRESCRIPTIVE USE




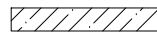
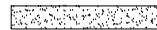
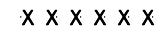

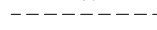




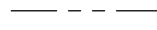

CARBONDALE ILLINOIS
 Public Works 200 South Illinois Avenue
 Carbondale, IL 62901
 (618) 457-3270

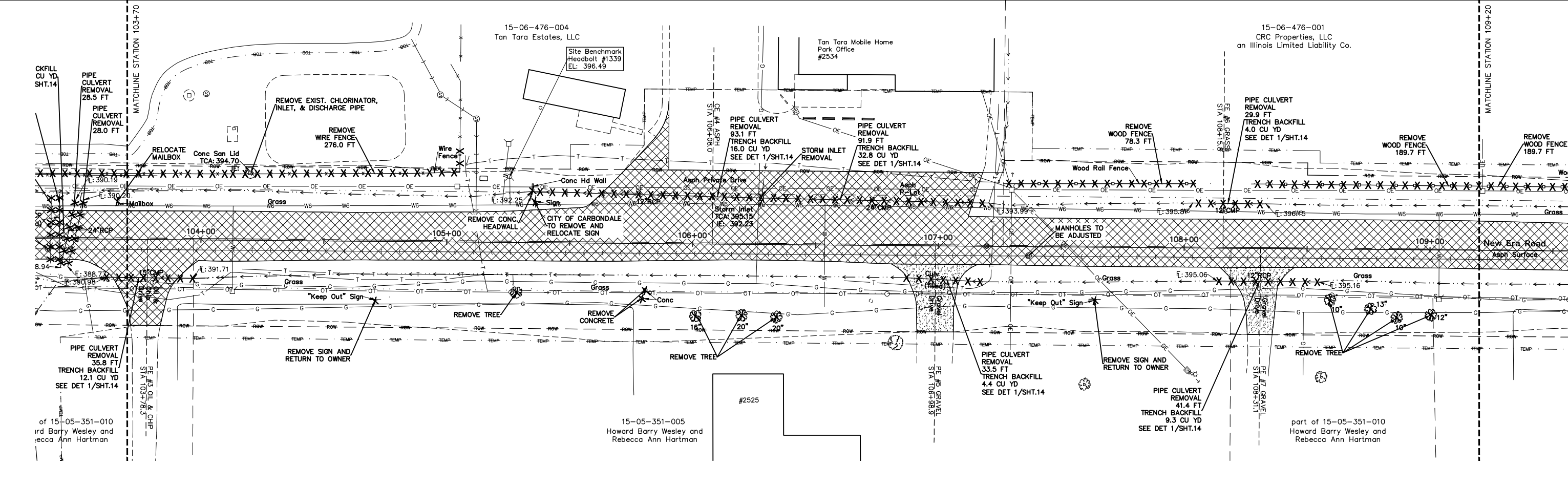
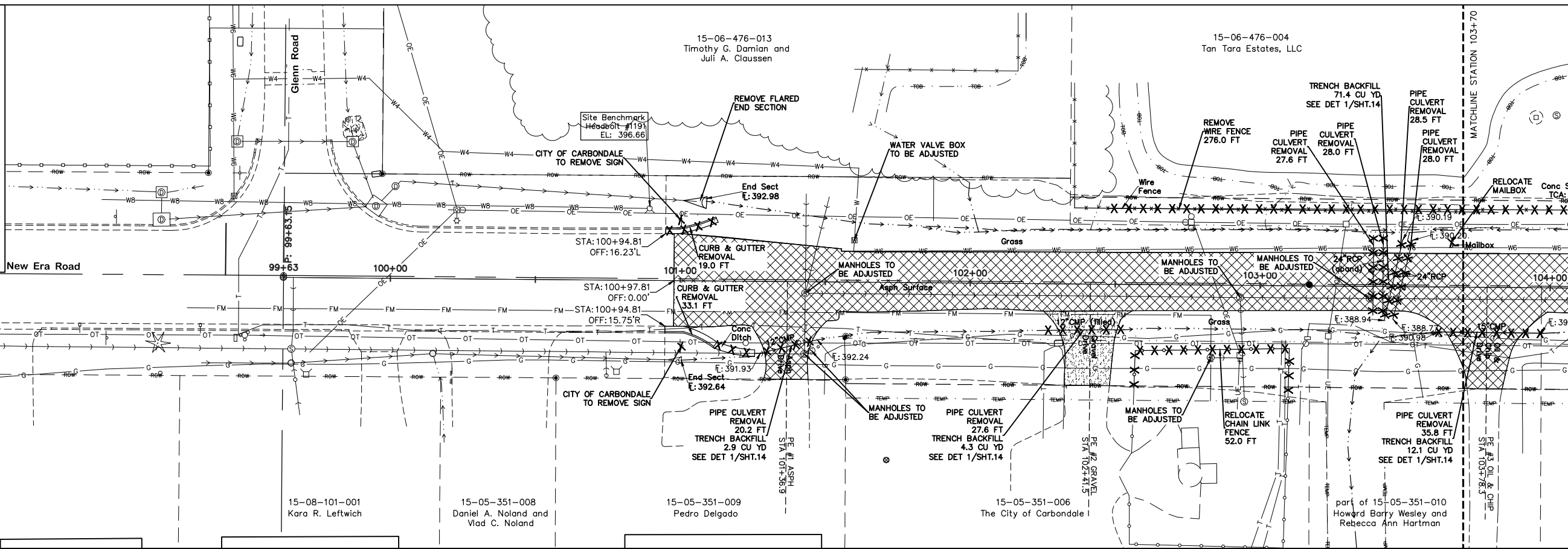
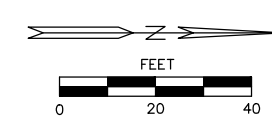
ASATURIAN EATON #3608
 and Associates Inc.
 ENGINEERING and LAND SURVEYING
 1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISD:
DRAWN BY: AW	REVISD:
CHECKED BY: PS	REVISD:
DATE: 04-01-22	REVISD:

OVERALL PLAN		ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
		FAU 9715	18-00138-00-FP	JACKSON	65	20
SCALE: 1"=40'		STATION: 100+94.81 TO STATION: 118+64.78		CITY OF CARBONDALE CONTRACT NO. 99689		
SHEET NO. 2 OF 2 SHEETS		STA.	TO STA.			

REMOVAL LEGEND

-  BITUMINOUS OR OIL & CHIP REMOVAL
-  CONCRETE REMOVAL
-  GRAVEL REMOVAL
-  LINEAR REMOVAL ITEM
-  UNIT REMOVAL ITEM
-  APPROX. LIMITS OF CONSTRUCTION
-  EXISTING DEDICATED ROW
-  PROPOSED ROW
-  PROP. TEMPORARY EASEMENT
-  PROPERTY/BOUNDARY/LOT LINE
-  SECTION LINE
-  RIGHT OF WAY BY PRESCRIPTIVE USE

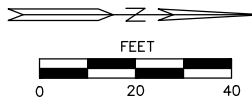
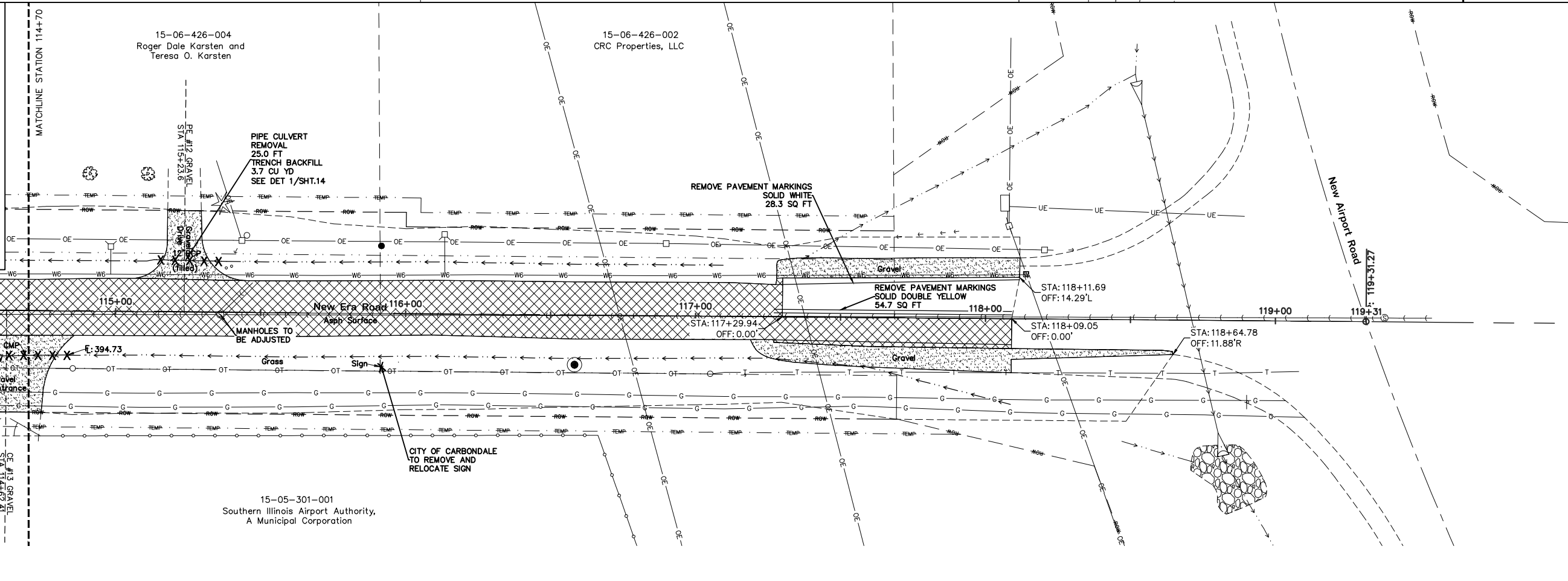
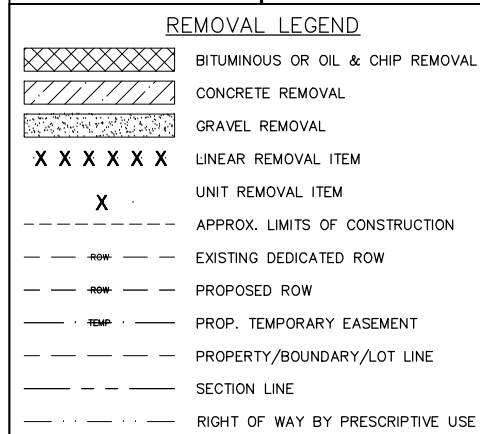
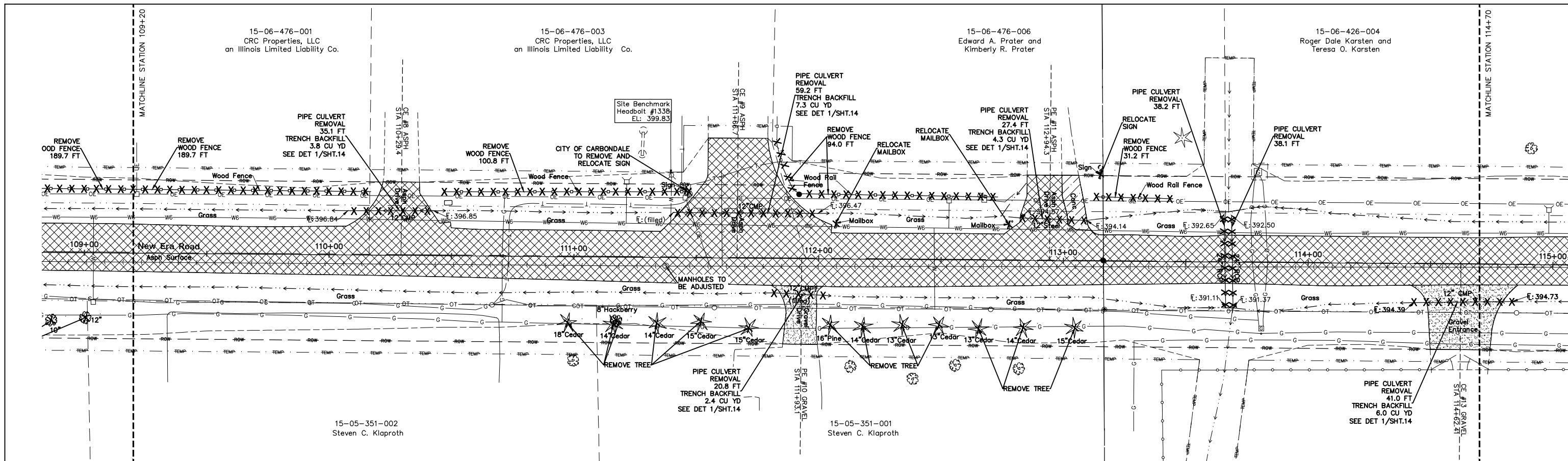


CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

REMOVAL PLAN		ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
SCALE: 1"=40'		FAU 9715	18-00138-00-FP	JACKSON	65	21
SHEET NO. 1 OF 2 SHEETS		STATION: 100+94.81	TO STATION: 118+64.78			
STA. TO STA.		CITY OF CARBONDALE		CONTRACT NO. 99689		

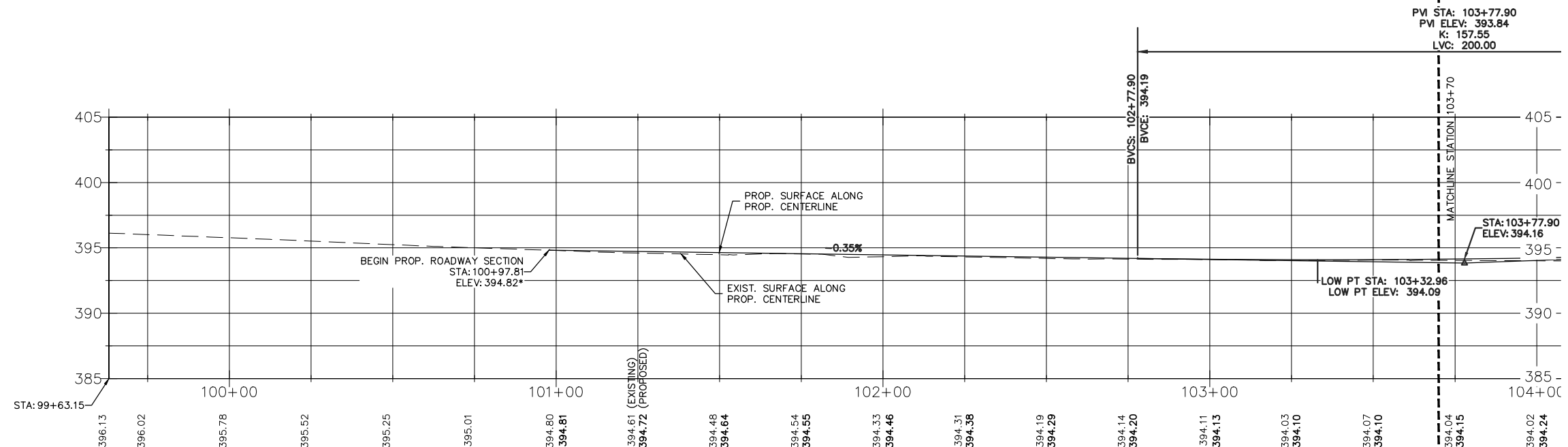
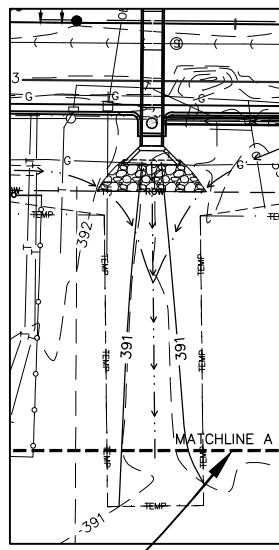
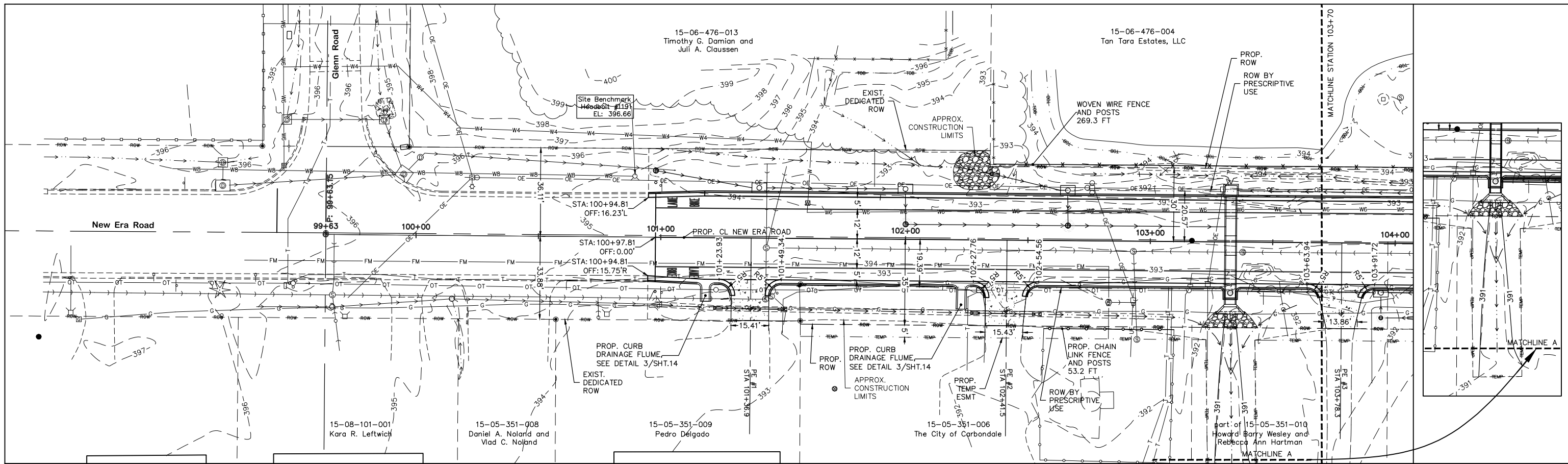


CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

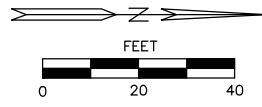
ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

REMOVAL PLAN		ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
		FAU 9715	18-00138-00-FP	JACKSON	65	22
SCALE: 1"=40'		SHEET NO. 2 OF 2 SHEETS		STA.	TO STA.	
		CITY OF CARBONDALE		CONTRACT NO. 99689		



LEGEND	
	APPROX. LIMITS OF CONSTRUCTION
	EXISTING DEDICATED ROW
	PROPOSED ROW
	PROP. TEMPORARY EASEMENT
	PROPERTY/BOUNDARY/LOT LINE
	SECTION LINE
	PROP. DITCH FLOWLINE
	RIGHT OF WAY BY PRESCRIPTIVE USE



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

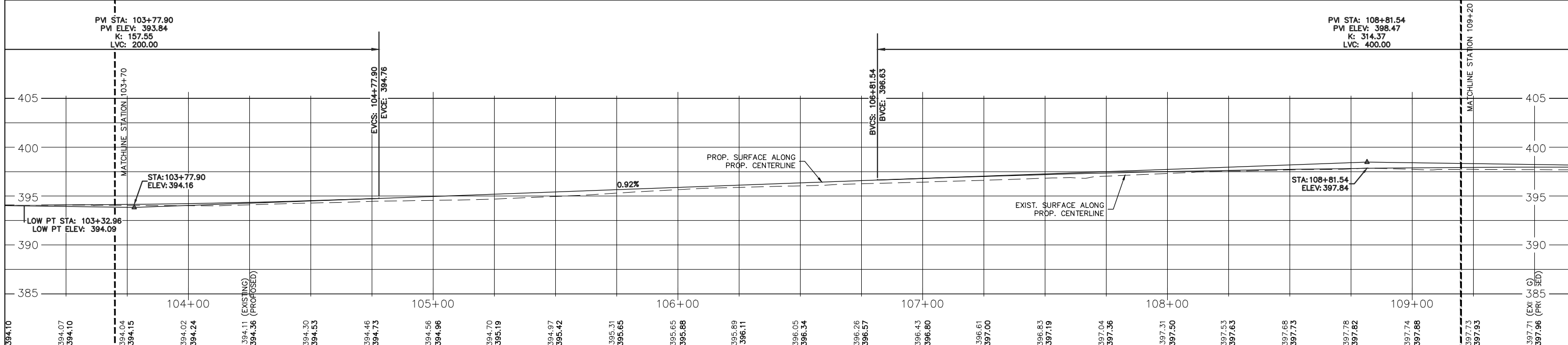
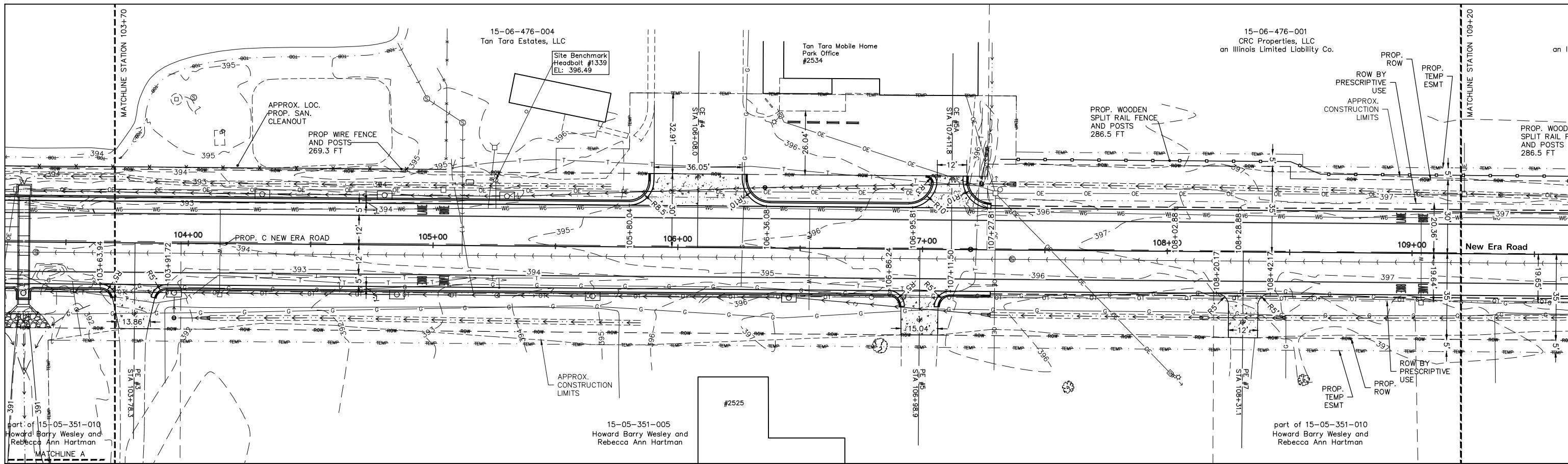
ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

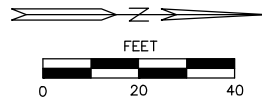
PLAN AND PROFILE

SCALE: 1"=40' H 1"=10' V SHEET NO. 1 OF 4 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	23
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



LEGEND	
---	APPROX. LIMITS OF CONSTRUCTION
---	EXISTING DEDICATED ROW
---	PROPOSED ROW
---	PROP. TEMPORARY EASEMENT
---	PROPERTY/BOUNDARY/LOT LINE
---	SECTION LINE
---	PROP. DITCH FLOWLINE
---	RIGHT OF WAY BY PRESCRIPTIVE USE



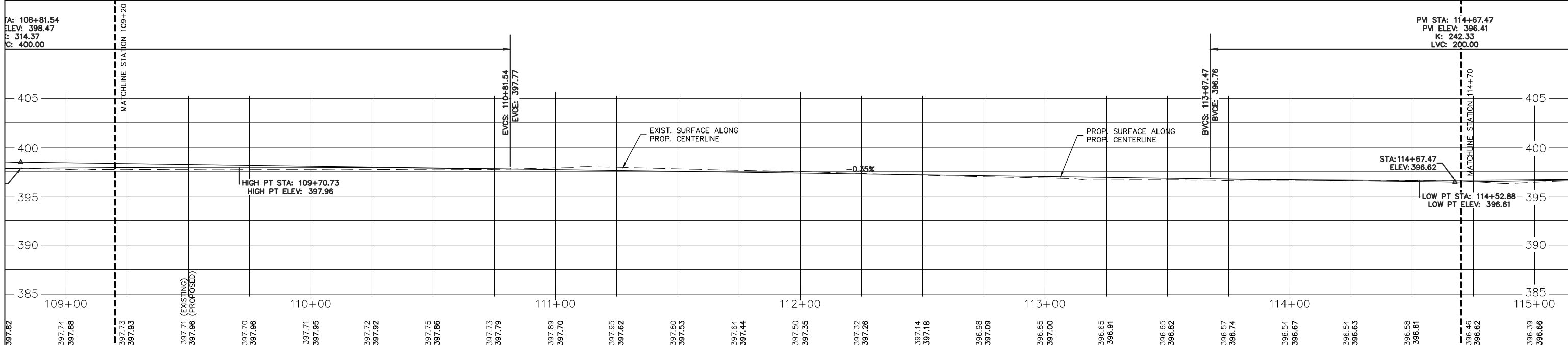
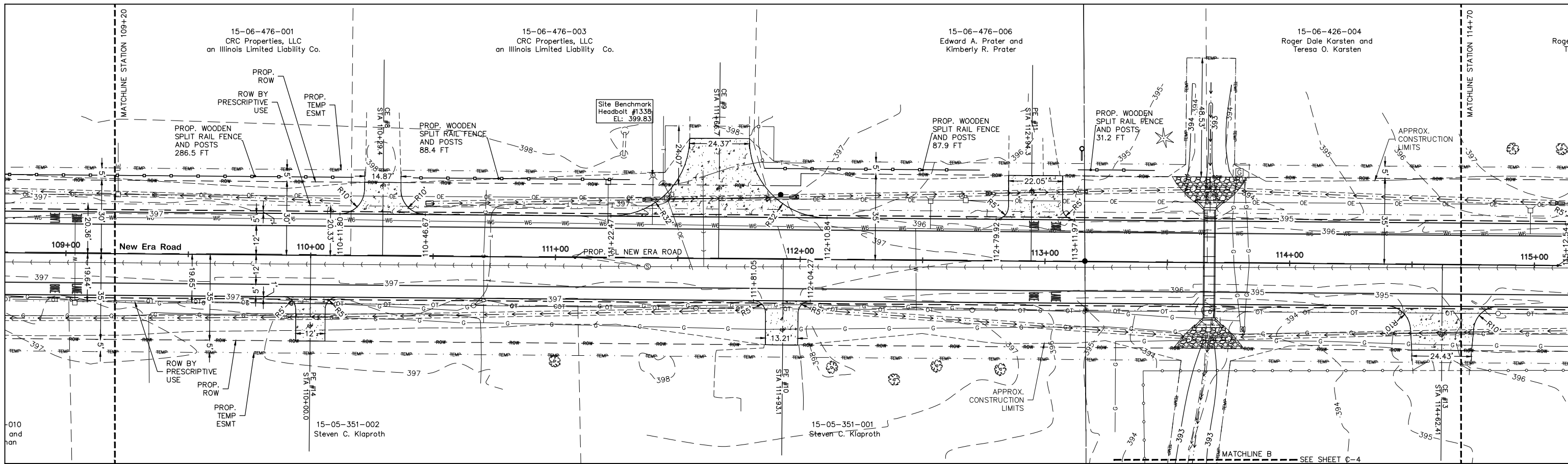
CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

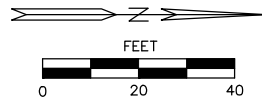
DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

PLAN AND PROFILE
SCALE: 1"=40' H 1"=10' V SHEET NO. 2 OF 4 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	24
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



LEGEND	
	APPROX. LIMITS OF CONSTRUCTION
	EXISTING DEDICATED ROW
	PROPOSED ROW
	PROP. TEMPORARY EASEMENT
	PROPERTY/BOUNDARY/LOT LINE
	SECTION LINE
	PROP. DITCH FLOWLINE
	RIGHT OF WAY BY PRESCRIPTIVE USE



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

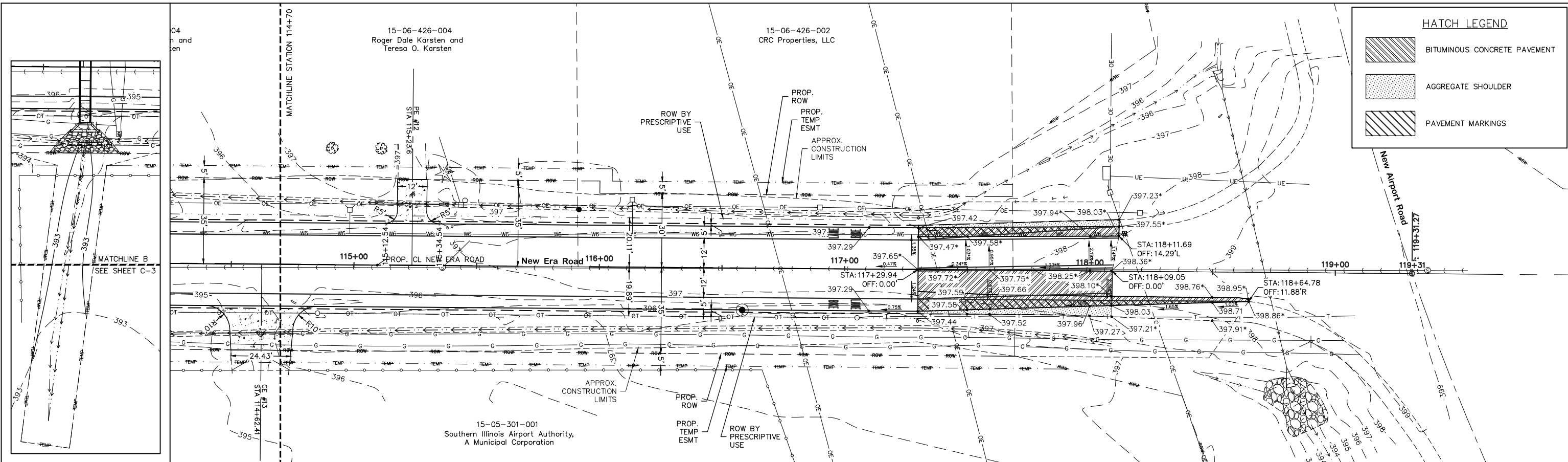
ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

PLAN AND PROFILE

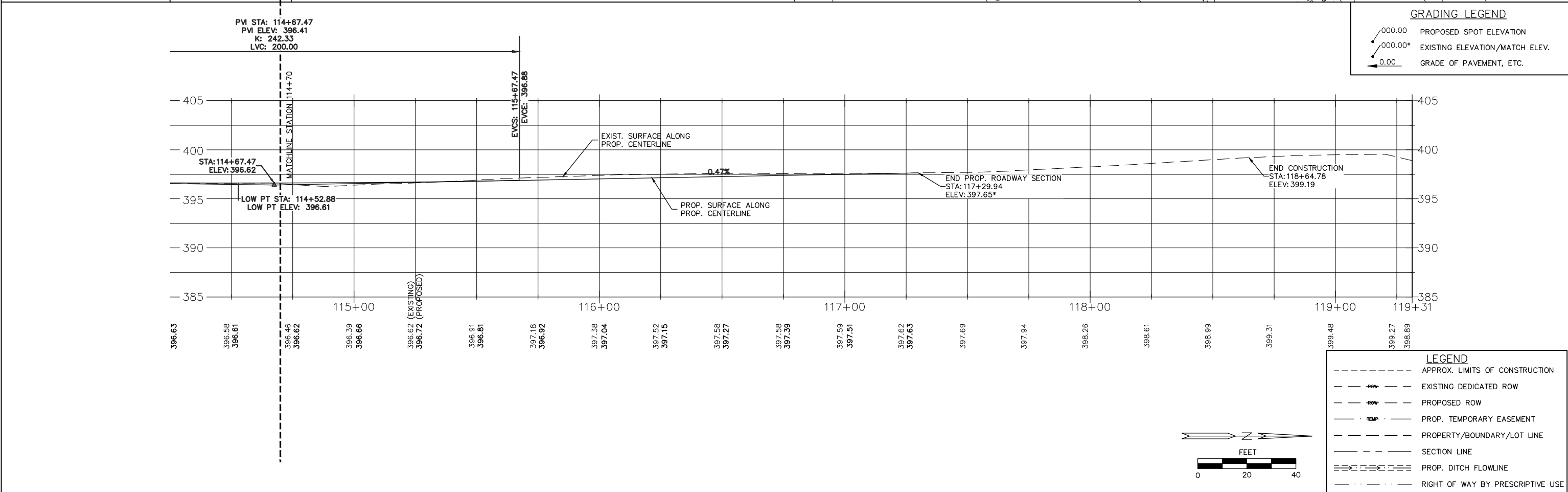
SCALE: 1"=40' H 1"=10' V SHEET NO. 3 OF 4 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	25
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



HATCH LEGEND

	BITUMINOUS CONCRETE PAVEMENT
	AGGREGATE SHOULDER
	PAVEMENT MARKINGS

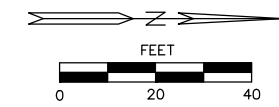


GRADING LEGEND

	PROPOSED SPOT ELEVATION
	EXISTING ELEVATION/MATCH ELEV.
	GRADE OF PAVEMENT, ETC.

LEGEND

	APPROX. LIMITS OF CONSTRUCTION
	EXISTING DEDICATED ROW
	PROPOSED ROW
	PROP. TEMPORARY EASEMENT
	PROPERTY/BOUNDARY/LOT LINE
	SECTION LINE
	PROP. DITCH FLOWLINE
	RIGHT OF WAY BY PRESCRIPTIVE USE



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

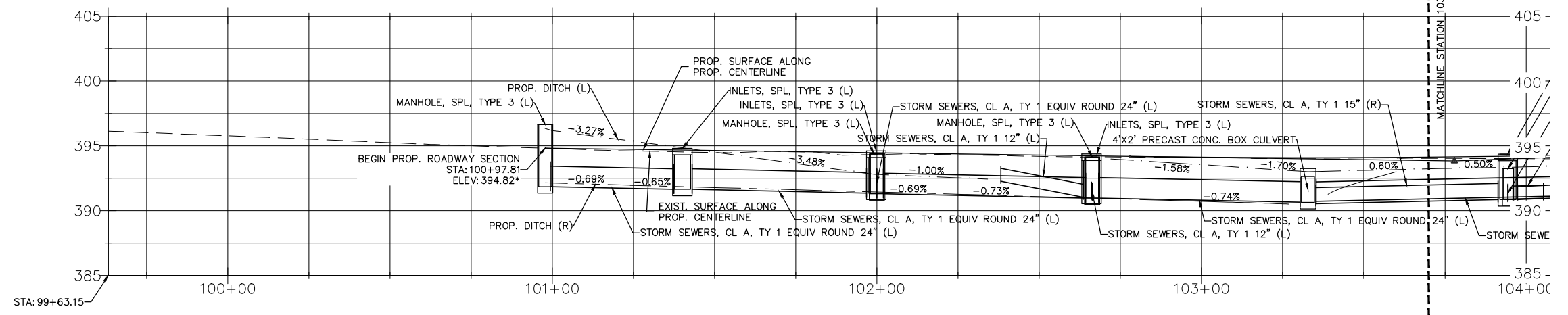
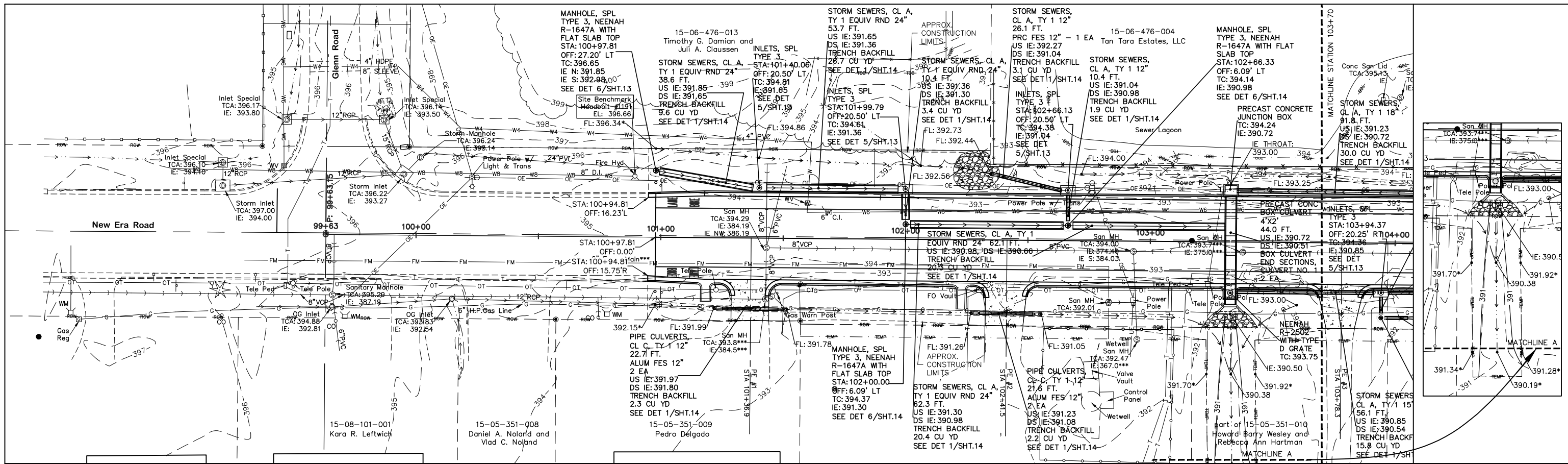
ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

PLAN AND PROFILE

SCALE: 1"=40' H 1"=10' V SHEET NO. 4 OF 4 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	26
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

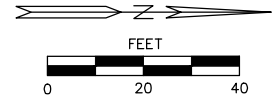


GRADING LEGEND

- 0.00 PROPOSED SPOT ELEVATION
- 0.00* EXISTING ELEVATION/MATCH ELEV.
- FL FLOWLINE
- TC TOP OF MANHOLE OR INLET CASTING
- IE INVERT ELEVATION

LEGEND

- - - - - APPROX. LIMITS OF CONSTRUCTION
- - - - - EXISTING DEDICATED ROW
- - - - - PROPOSED ROW
- - - - - PROP. TEMPORARY EASEMENT
- - - - - PROPERTY/BOUNDARY/LOT LINE
- - - - - SECTION LINE
- - - - - PROP. DITCH FLOWLINE
- - - - - RIGHT OF WAY BY PRESCRIPTIVE USE



DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

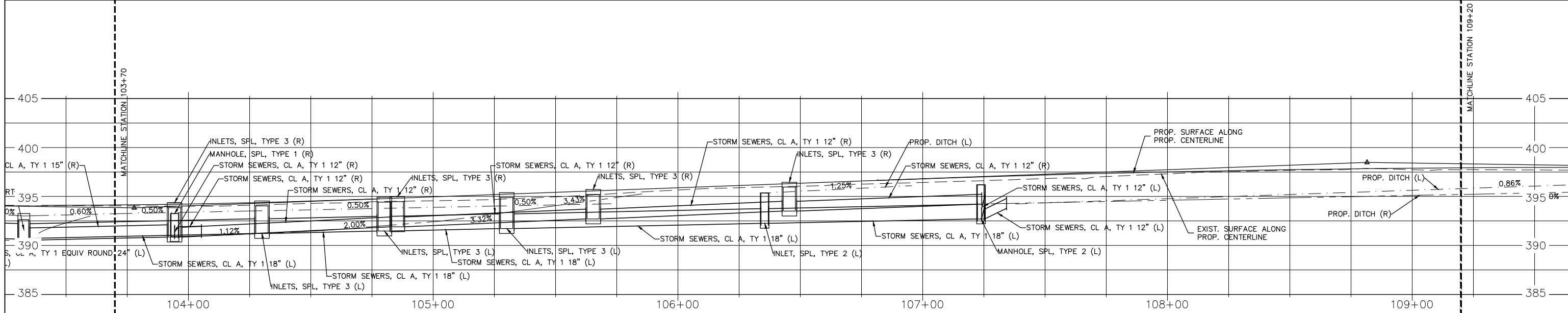
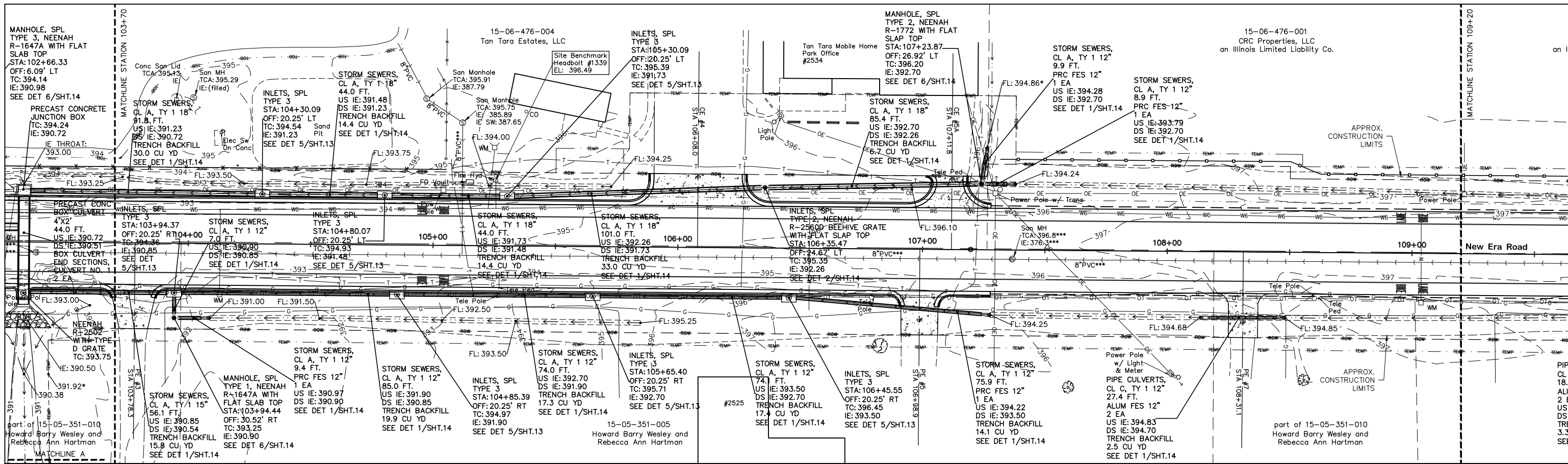
DRAINAGE PLAN AND PROFILE

SCALE: 1"=40' H 1"=10' V

SHEET NO. 1 OF 4 SHEETS

STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	27
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

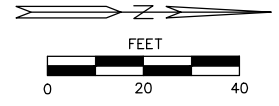


GRADING LEGEND

- 0.000.00 PROPOSED SPOT ELEVATION
- 0.000.00* EXISTING ELEVATION/MATCH ELEV.
- FL FLOWLINE
- TC TOP OF MANHOLE OR INLET CASTING
- IE INVERT ELEVATION

LEGEND

- - - - - APPROX. LIMITS OF CONSTRUCTION
- - - - - EXISTING DEDICATED ROW
- - - - - PROPOSED ROW
- - - - - PROP. TEMPORARY EASEMENT
- - - - - PROPERTY/BOUNDARY/LOT LINE
- - - - - SECTION LINE
- - - - - PROP. DITCH FLOWLINE
- - - - - RIGHT OF WAY BY PRESCRIPTIVE USE



DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

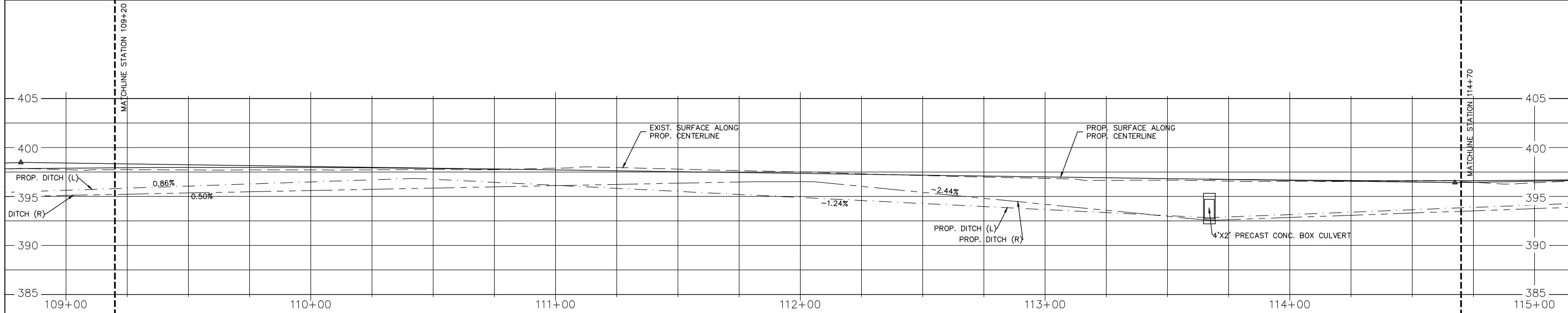
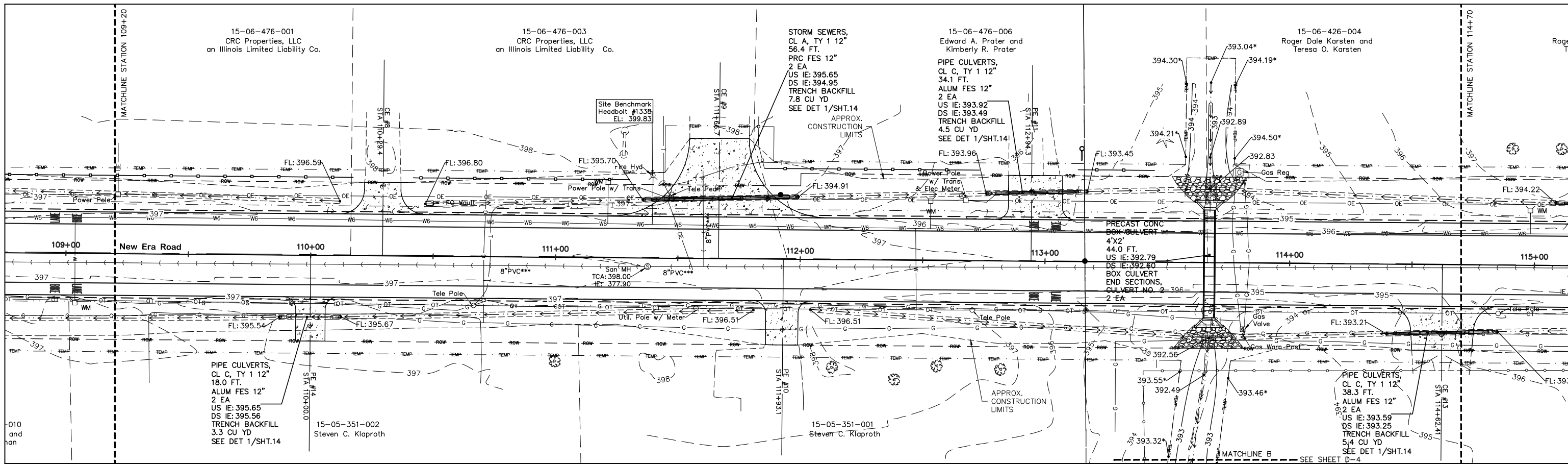
DRAINAGE PLAN AND PROFILE

SCALE: 1"=40' H 1"=10' V

SHEET NO. 2 OF 4 SHEETS

STATION: 100+94.81 TO STATION: 118+64.78

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	28
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

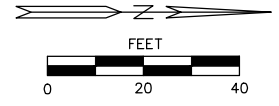


GRADING LEGEND

- 0000.00 PROPOSED SPOT ELEVATION
- 0000.00* EXISTING ELEVATION/MATCH ELEV.
- FL FLOWLINE
- TC TOP OF MANHOLE OR INLET CASTING
- IE INVERT ELEVATION

LEGEND

- APPROX. LIMITS OF CONSTRUCTION
- EXISTING DEDICATED ROW
- PROPOSED ROW
- PROP. TEMPORARY EASEMENT
- PROPERTY/BOUNDARY/LOT LINE
- SECTION LINE
- PROP. DITCH FLOWLINE
- RIGHT OF WAY BY PRESCRIPTIVE USE



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

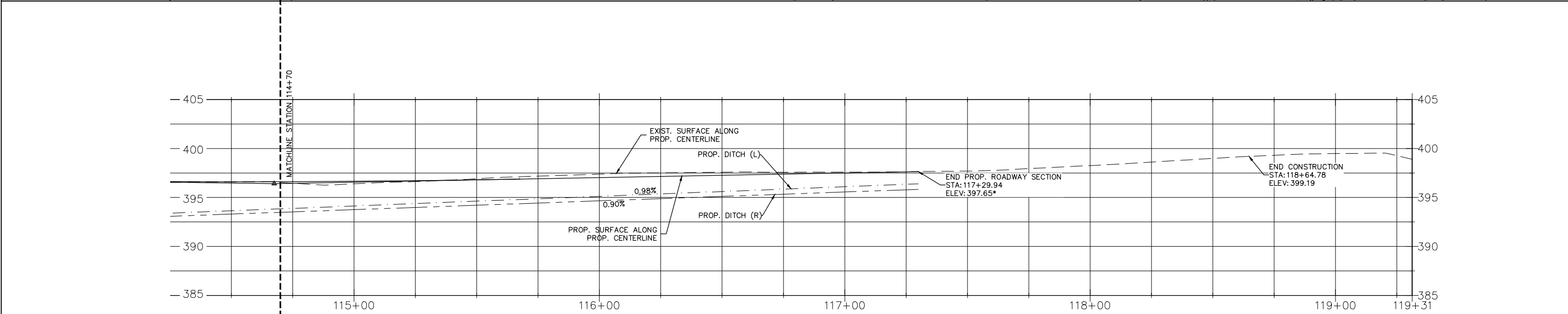
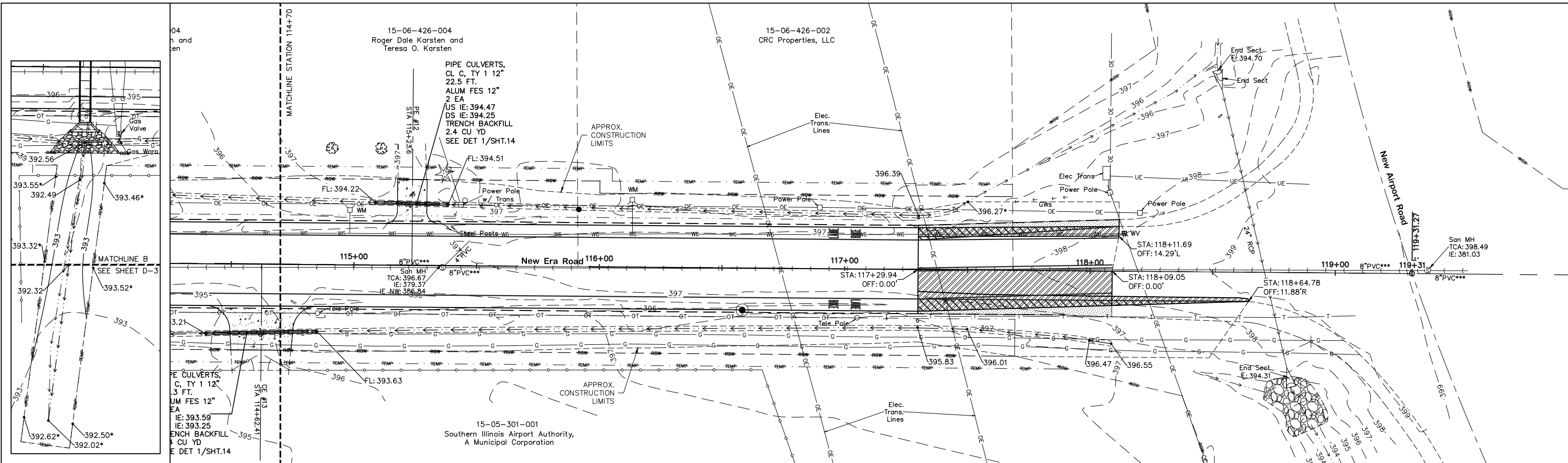
ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

DRAINAGE PLAN AND PROFILE

SCALE: 1"=40' H 1"=10' V SHEET NO. 3 OF 4 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	29
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

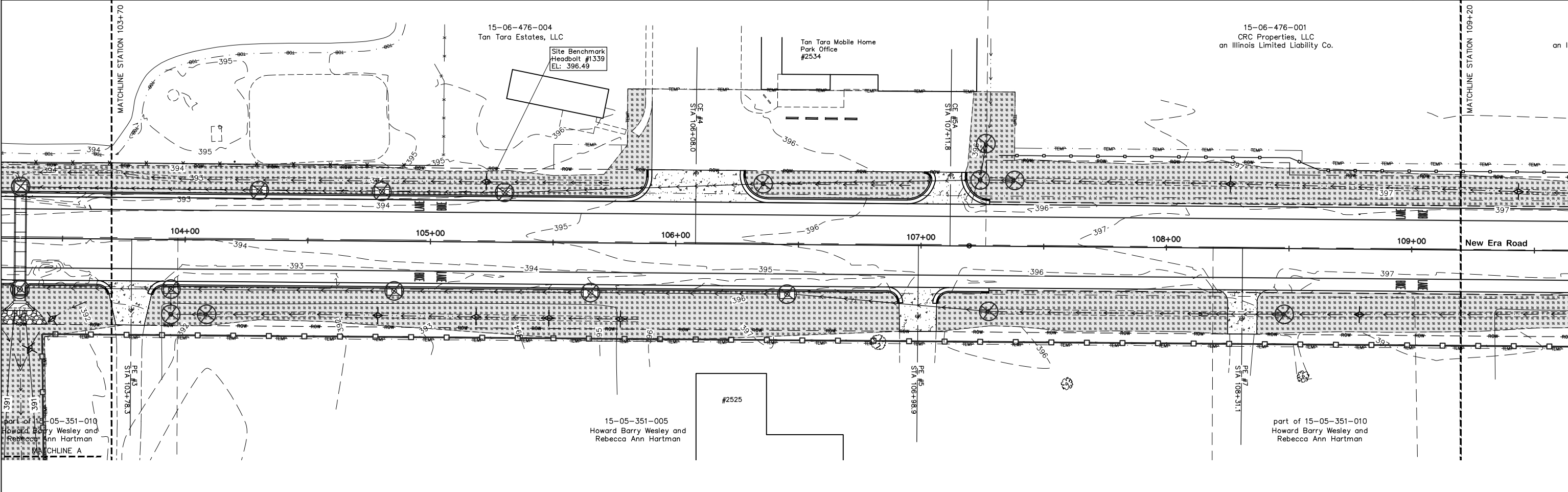
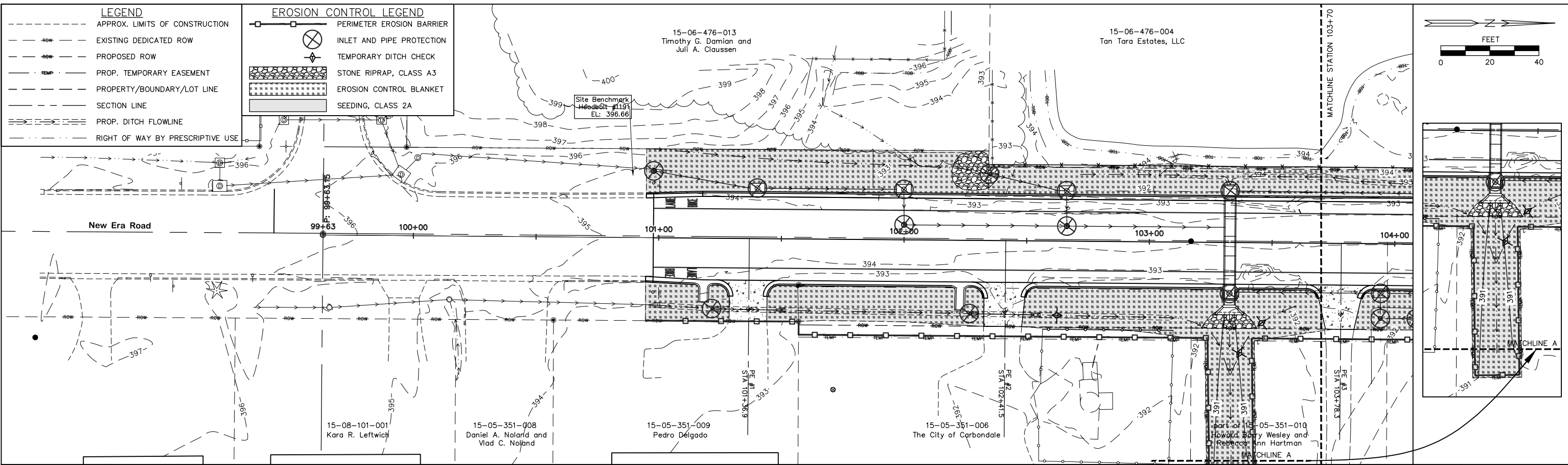


GRADING LEGEND

- 000.00 PROPOSED SPOT ELEVATION
- 000.00* EXISTING ELEVATION/MATCH ELEV.
- FL FLOWLINE
- TC TOP OF MANHOLE OR INLET CASTING
- IE INVERT ELEVATION

LEGEND

- - - - - APPROX. LIMITS OF CONSTRUCTION
- - - - - EXISTING DEDICATED ROW
- - - - - PROPOSED ROW
- - - - - PROP. TEMPORARY EASEMENT
- - - - - PROPERTY/BOUNDARY/LOT LINE
- - - - - SECTION LINE
- - - - - PROP. DITCH FLOWLINE
- - - - - RIGHT OF WAY BY PRESCRIPTIVE USE

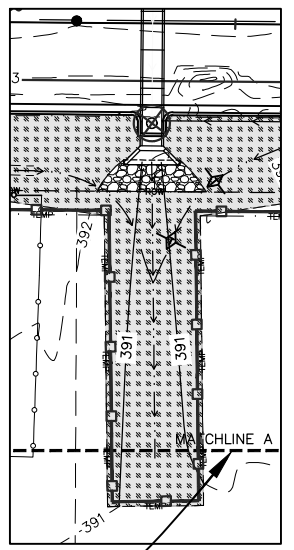
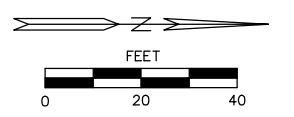


LEGEND

- - - - - APPROX. LIMITS OF CONSTRUCTION
- - - - - EXISTING DEDICATED ROW
- - - - - PROPOSED ROW
- - - - - PROP. TEMPORARY EASEMENT
- - - - - PROPERTY/BOUNDARY/LOT LINE
- - - - - SECTION LINE
- - - - - PROP. DITCH FLOWLINE
- - - - - RIGHT OF WAY BY PRESCRIPTIVE USE

EROSION CONTROL LEGEND

- PERIMETER EROSION BARRIER
- ⊗ INLET AND PIPE PROTECTION
- ◇ TEMPORARY DITCH CHECK
- ▨ STONE RIPRAP, CLASS A3
- ▩ EROSION CONTROL BLANKET
- ▭ SEEDING, CLASS 2A



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

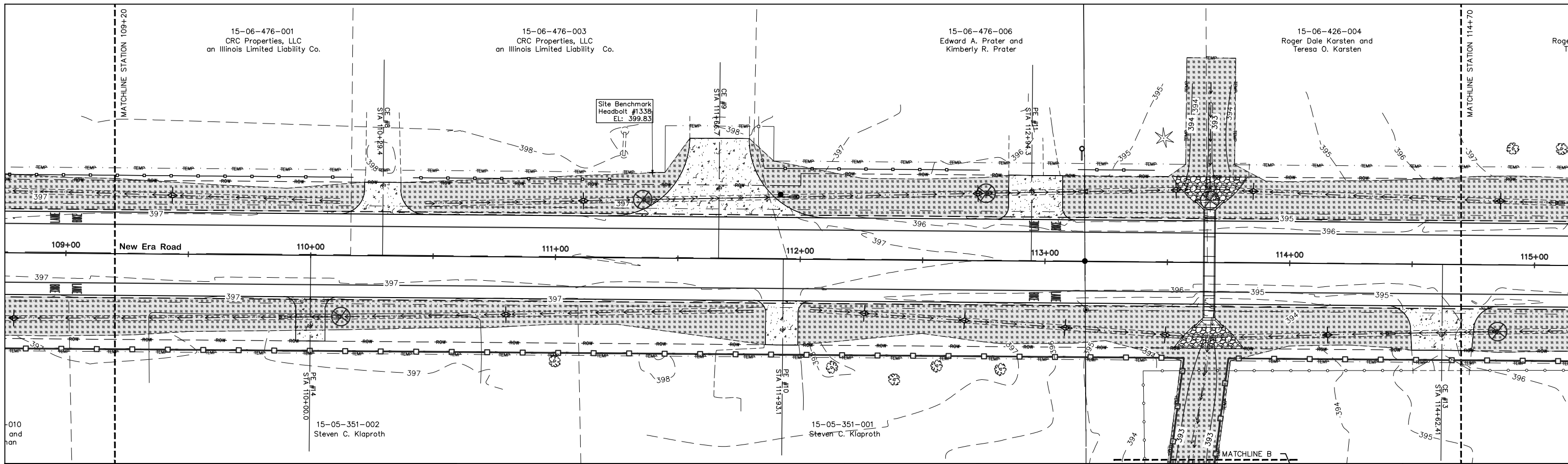
GUIDELINE EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=40'

SHEET NO. 1 OF 2 SHEETS

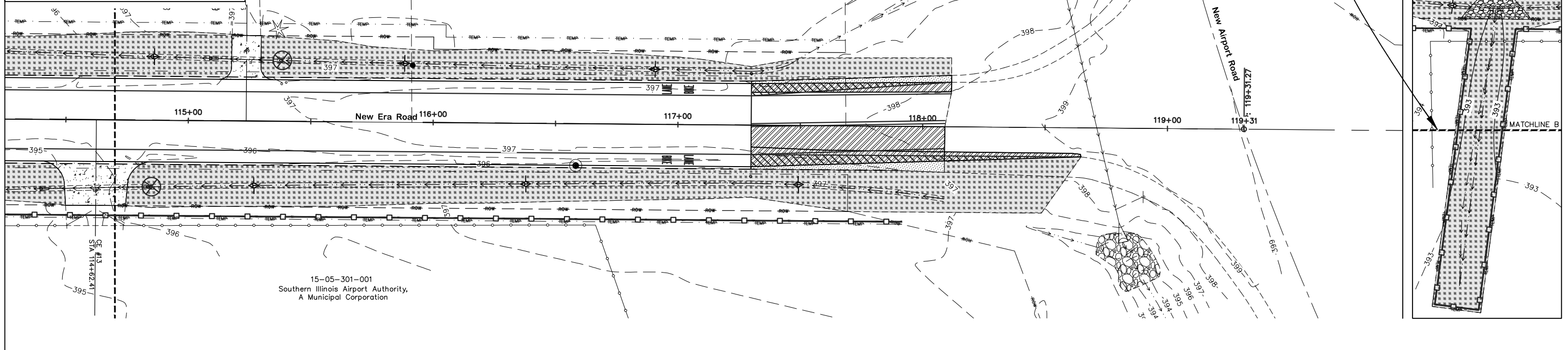
STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	31
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



LEGEND	
---	APPROX. LIMITS OF CONSTRUCTION
-ROW-	EXISTING DEDICATED ROW
-ROW-	PROPOSED ROW
-TEMP-	PROP. TEMPORARY EASEMENT
- - -	PROPERTY/BOUNDARY/LOT LINE
- - -	SECTION LINE
==>==>	PROP. DITCH FLOWLINE
- - -	RIGHT OF WAY BY PRESCRIPTIVE USE

EROSION CONTROL LEGEND	
---o---	PERIMETER EROSION BARRIER
⊗	INLET AND PIPE PROTECTION
◇	TEMPORARY DITCH CHECK
[Stippled Box]	STONE RIPRAP, CLASS A3
[Cross-hatched Box]	EROSION CONTROL BLANKET
[Solid Grey Box]	SEEDING, CLASS 2A



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

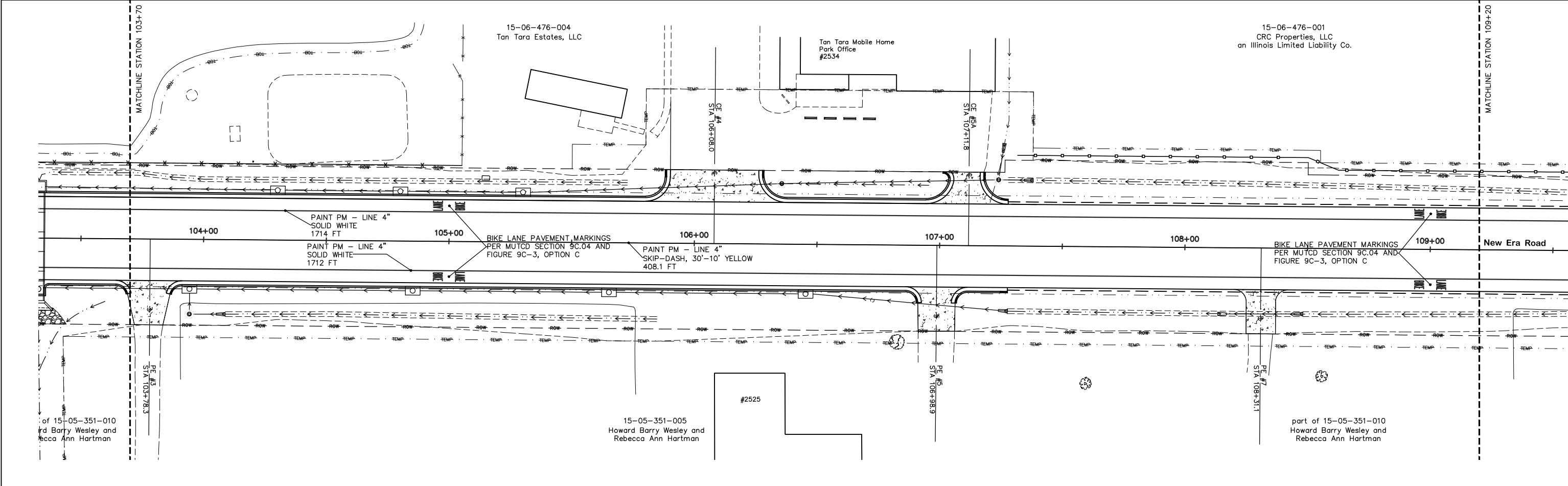
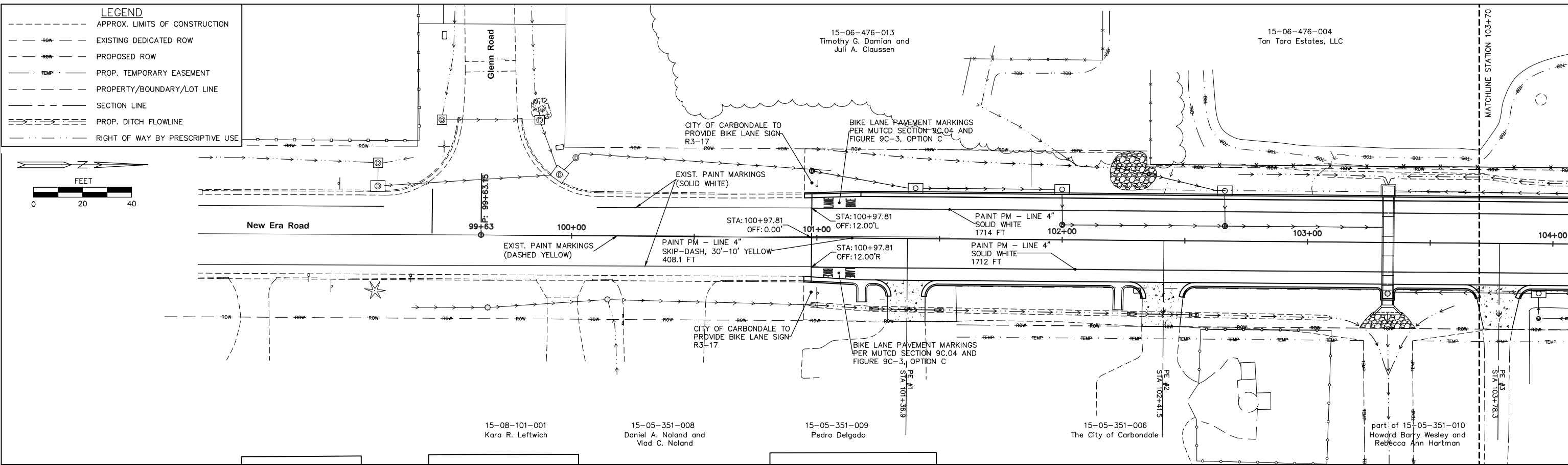
DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

GUIDELINE EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=40'

SHEET NO. 2 OF 2 SHEETS STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	32
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

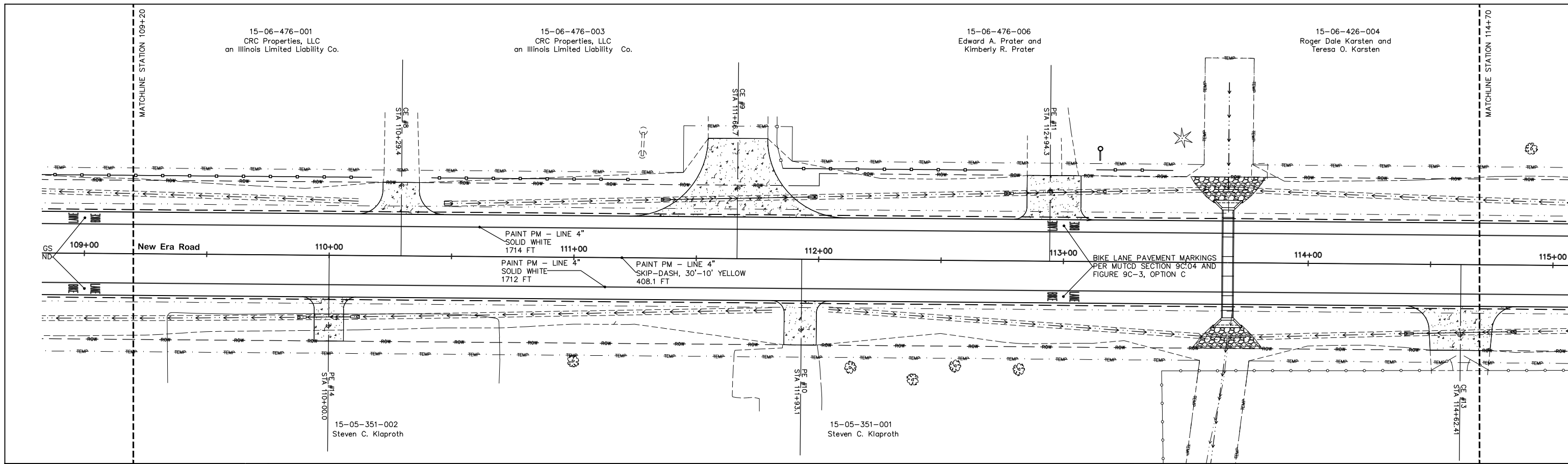
PAVEMENT MARKING AND SIGNS

SCALE: 1"=40'

SHEET NO. 1 OF 2 SHEETS

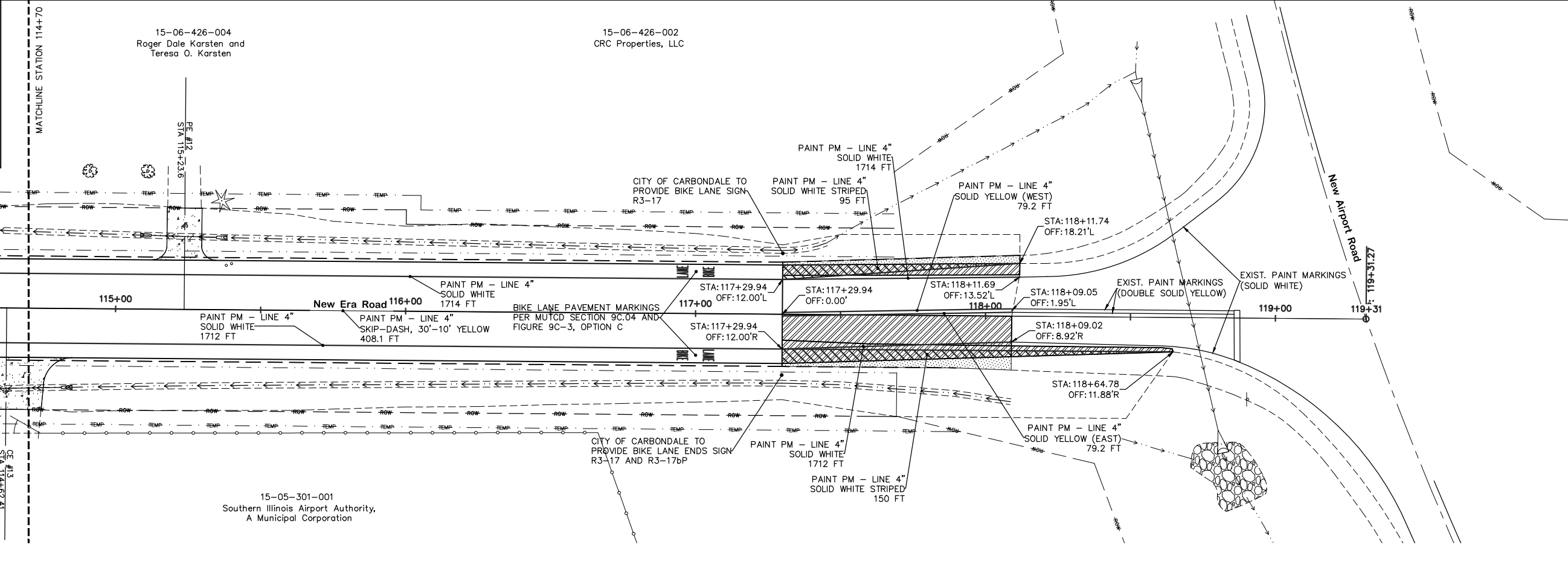
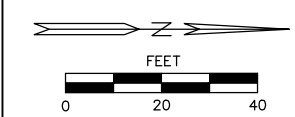
STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	33
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



LEGEND

- APPROX. LIMITS OF CONSTRUCTION
- - - - - EXISTING DEDICATED ROW
- - - - - PROPOSED ROW
- - - - - PROP. TEMPORARY EASEMENT
- - - - - PROPERTY/BOUNDARY/LOT LINE
- - - - - SECTION LINE
- - - - - PROP. DITCH FLOWLINE
- - - - - RIGHT OF WAY BY PRESCRIPTIVE USE



CARBONDALE ILLINOIS
 Public Works 200 South Illinois Avenue
 Carbondale, IL 62901
 Engineering (618) 457-3270

ASATURIAN EATON #3608
 and Associates Inc.
ENGINEERING and LAND SURVEYING
 1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

PAVEMENT MARKING AND SIGNS

SCALE: 1"=40'

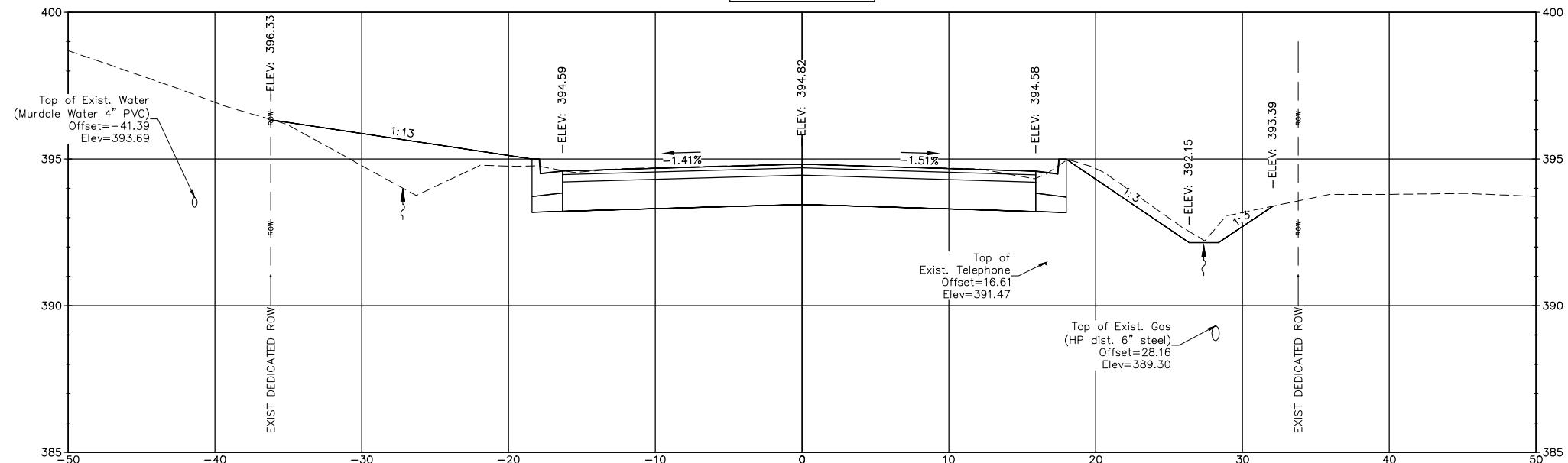
SHEET NO. 2 OF 2 SHEETS

STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	34
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

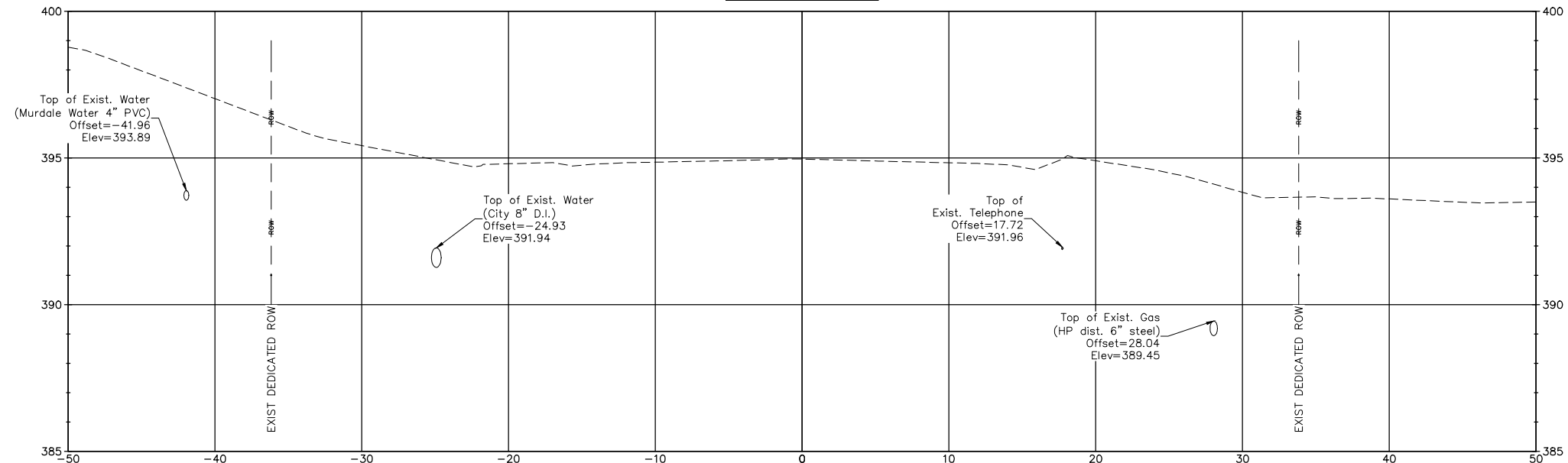
100+97.81

BEGIN PROPOSED ROADWAY SECTION

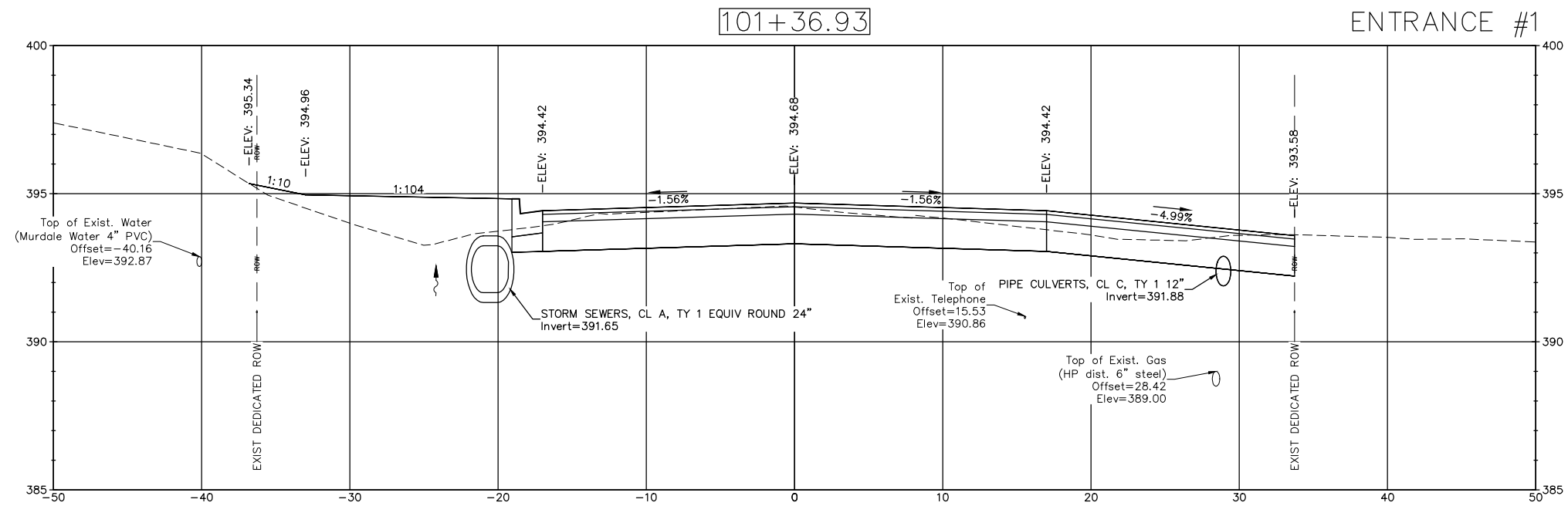


Cut Area (sq ft) = 49.38
 Fill Area (sq ft) = 14.78

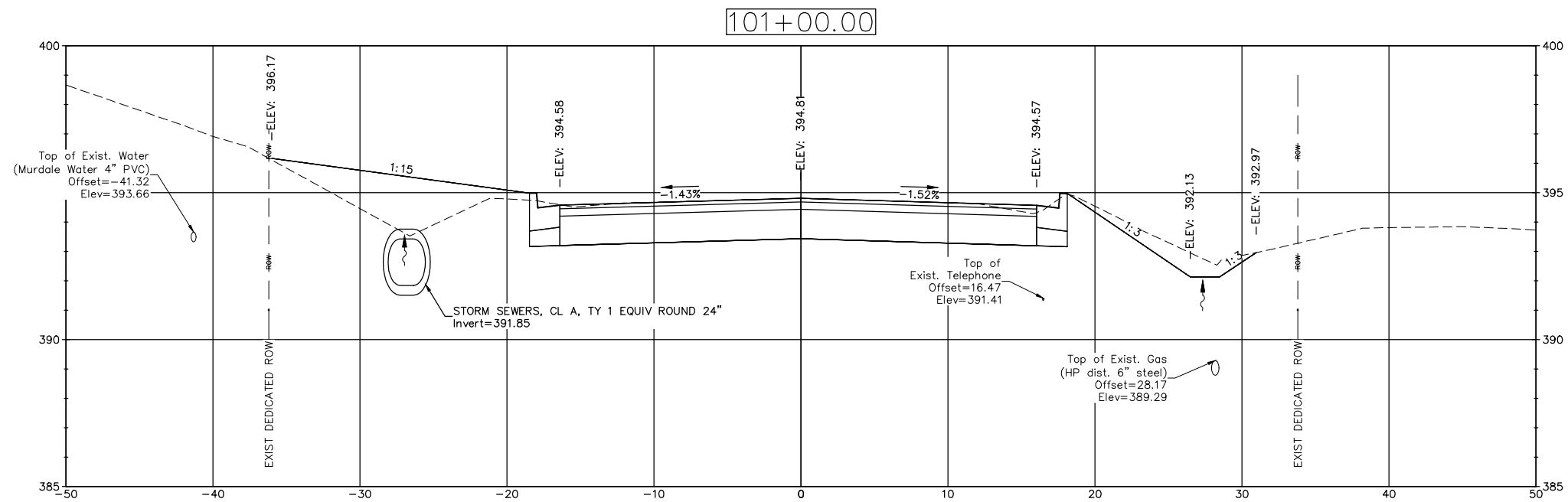
100+80.00



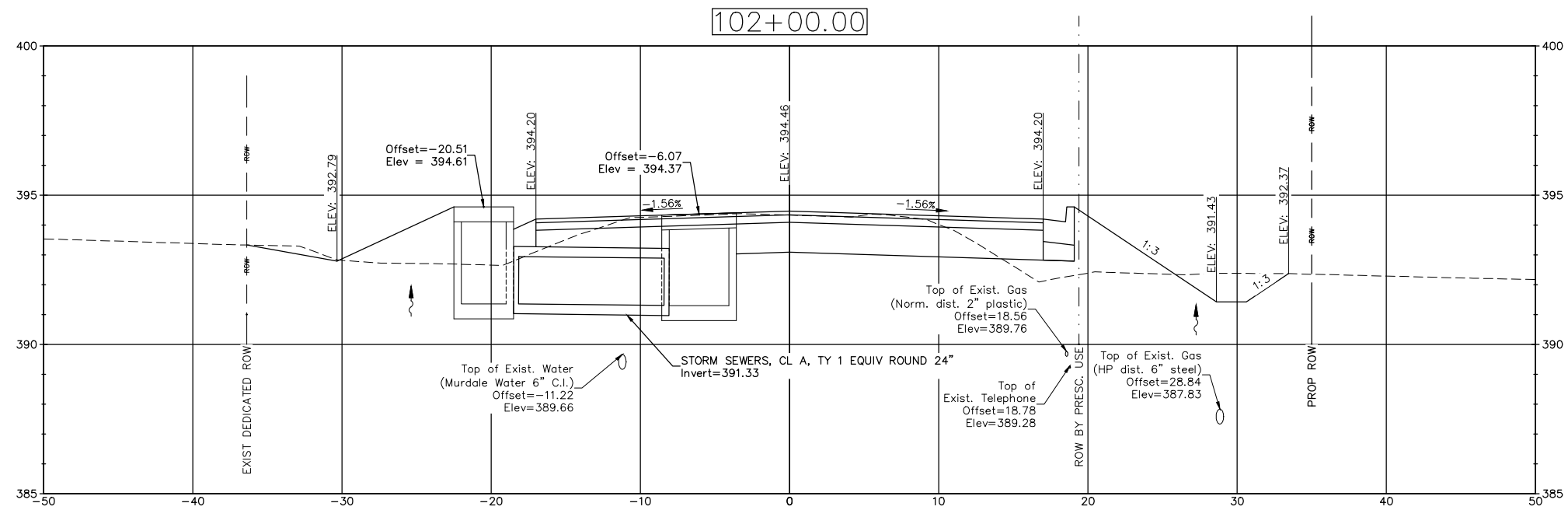
Cut Area (sq ft) = 0.00
 Fill Area (sq ft) = 0.00



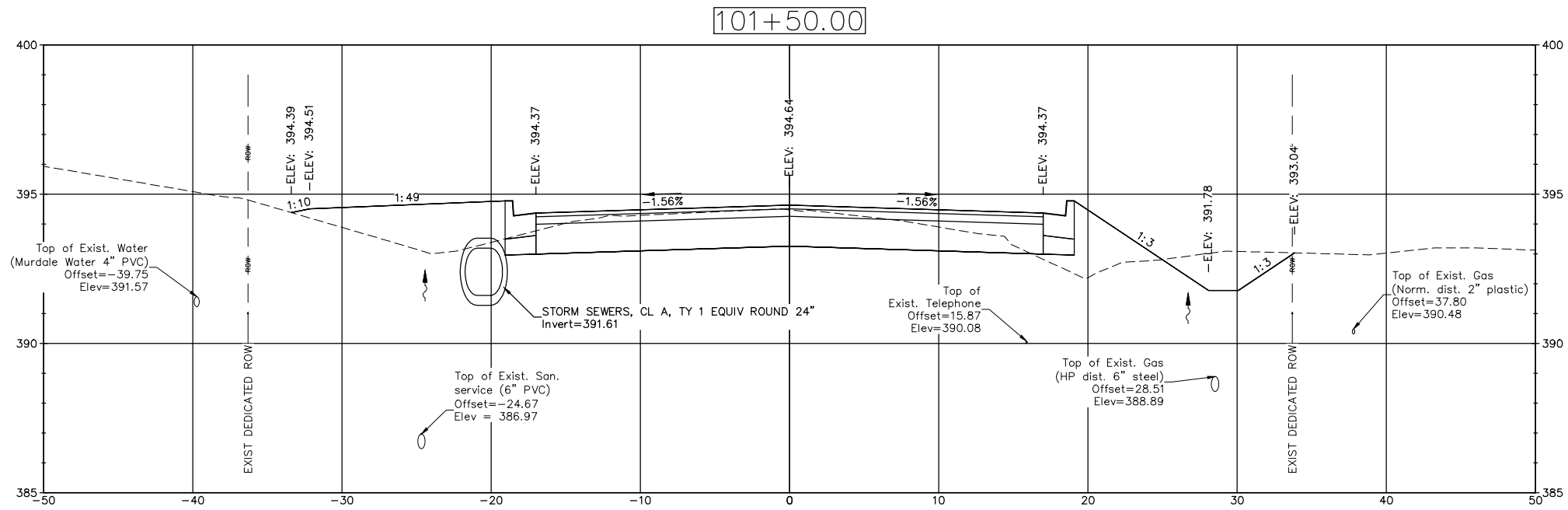
Cut Area (sq ft) = 45.92
 Fill Area (sq ft) = 17.10



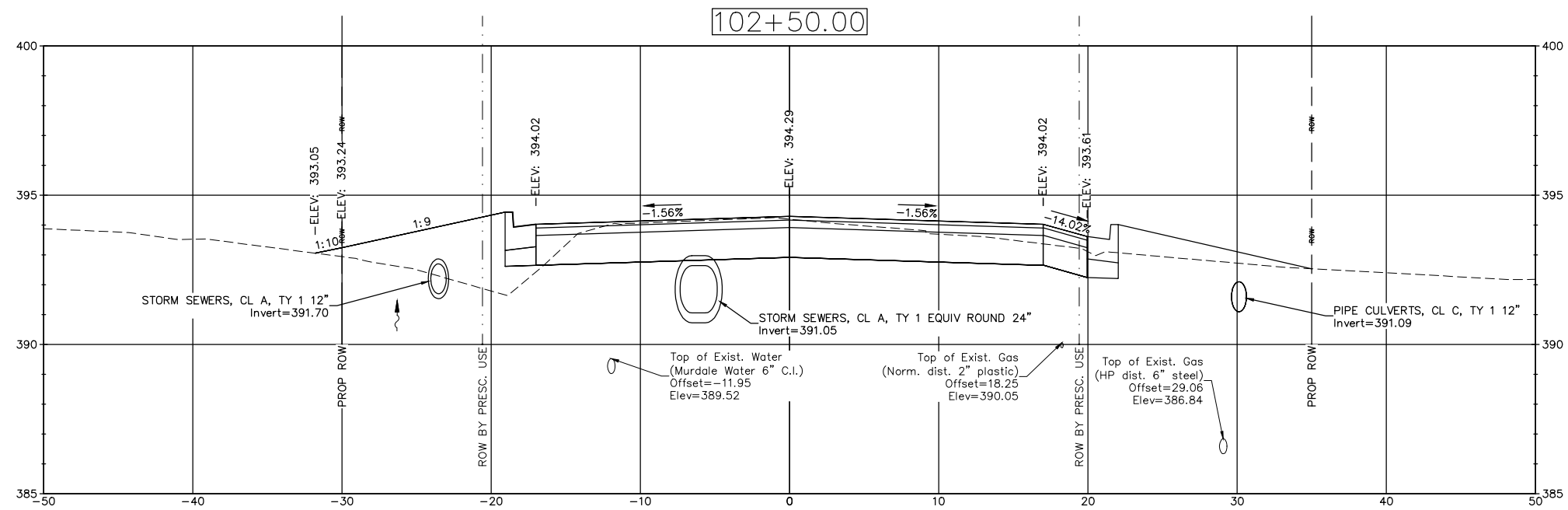
Cut Area (sq ft) = 49.64
 Fill Area (sq ft) = 17.11



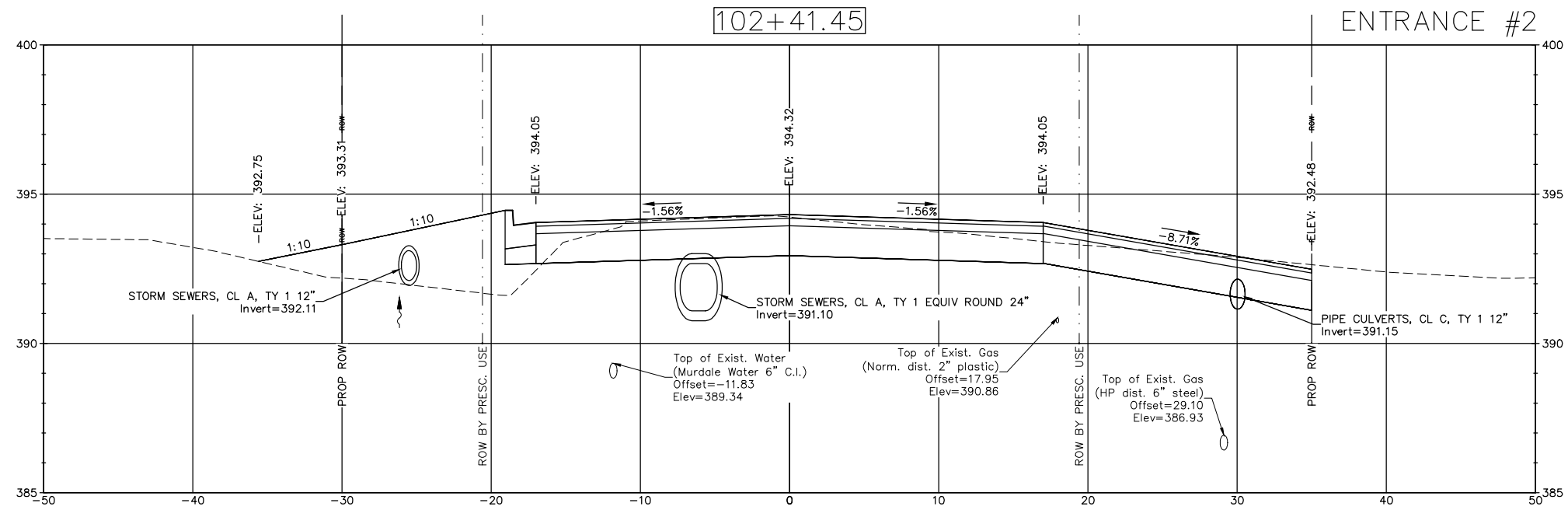
Cut Area (sq ft) = 35.79
Fill Area (sq ft) = 20.90



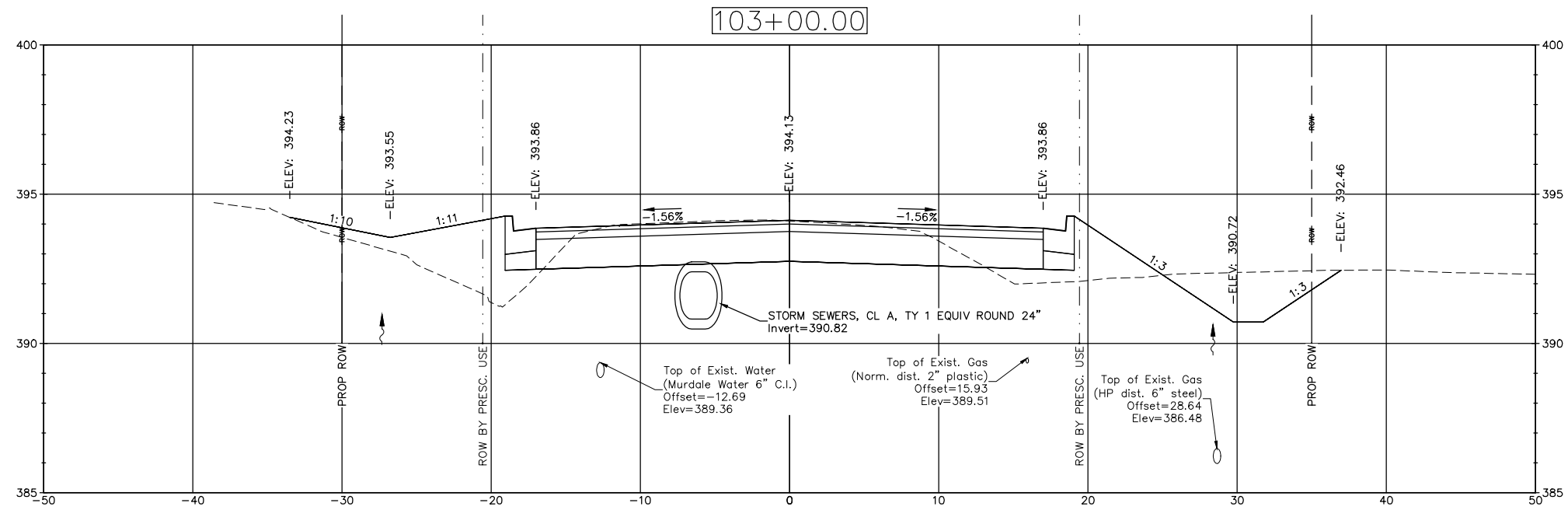
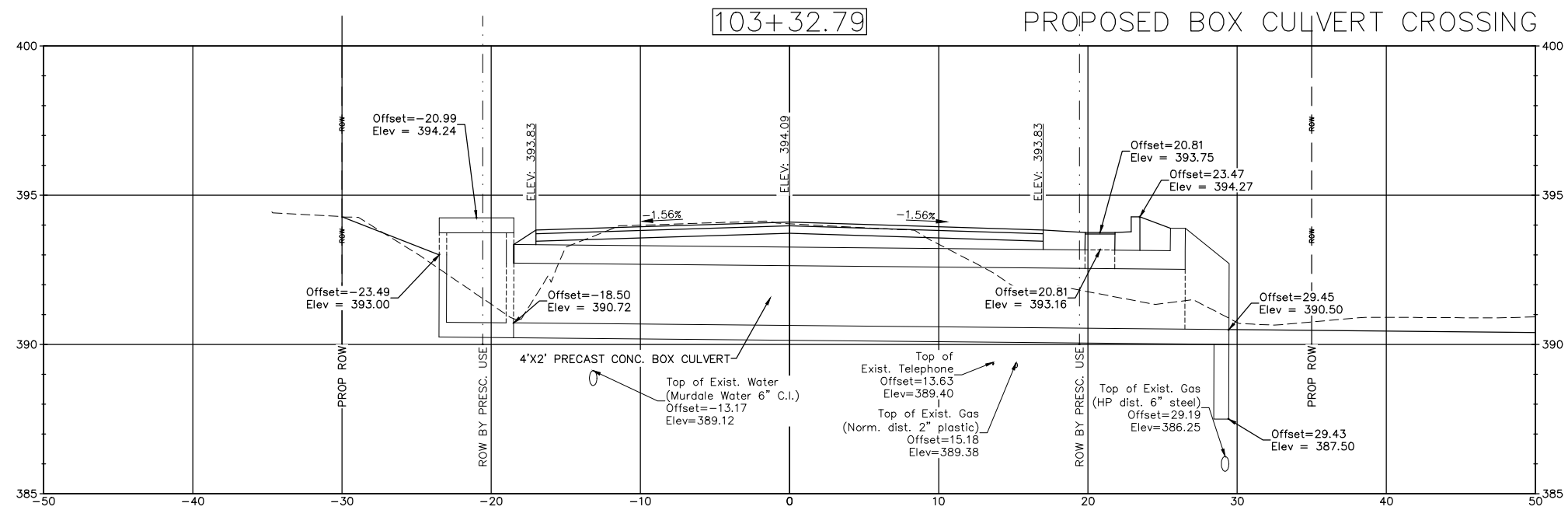
Cut Area (sq ft) = 36.05
Fill Area (sq ft) = 24.13

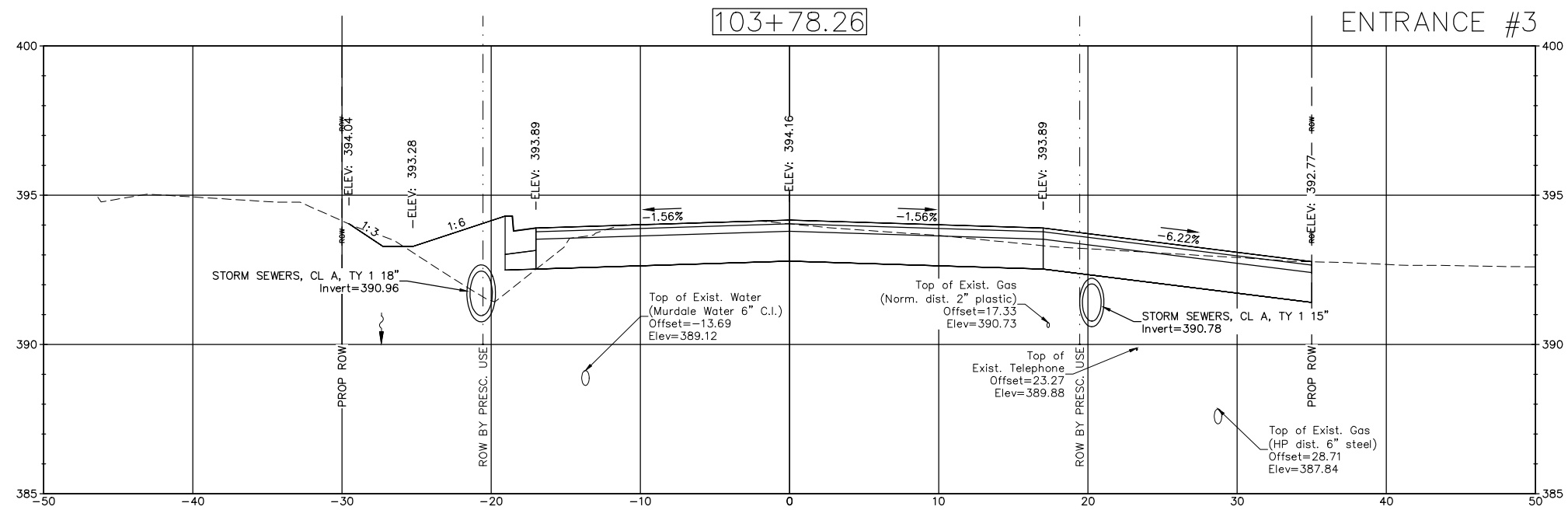


Cut Area (sq ft) = 53.56
 Fill Area (sq ft) = 18.16

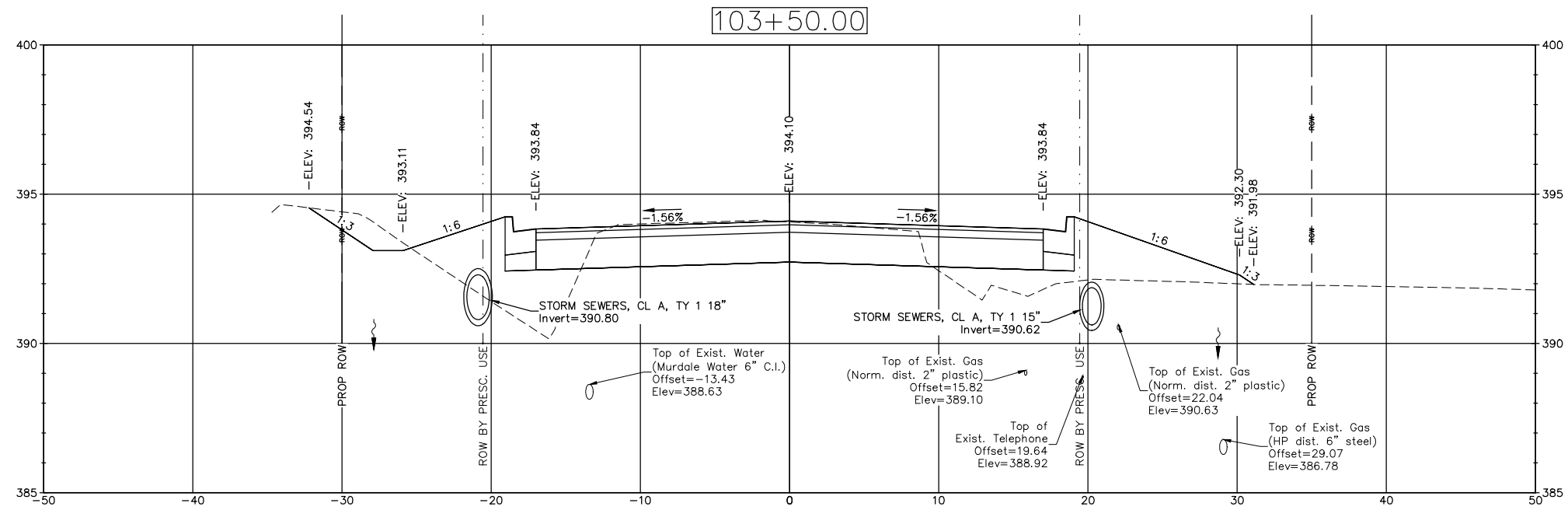


Cut Area (sq ft) = 53.03
 Fill Area (sq ft) = 27.16

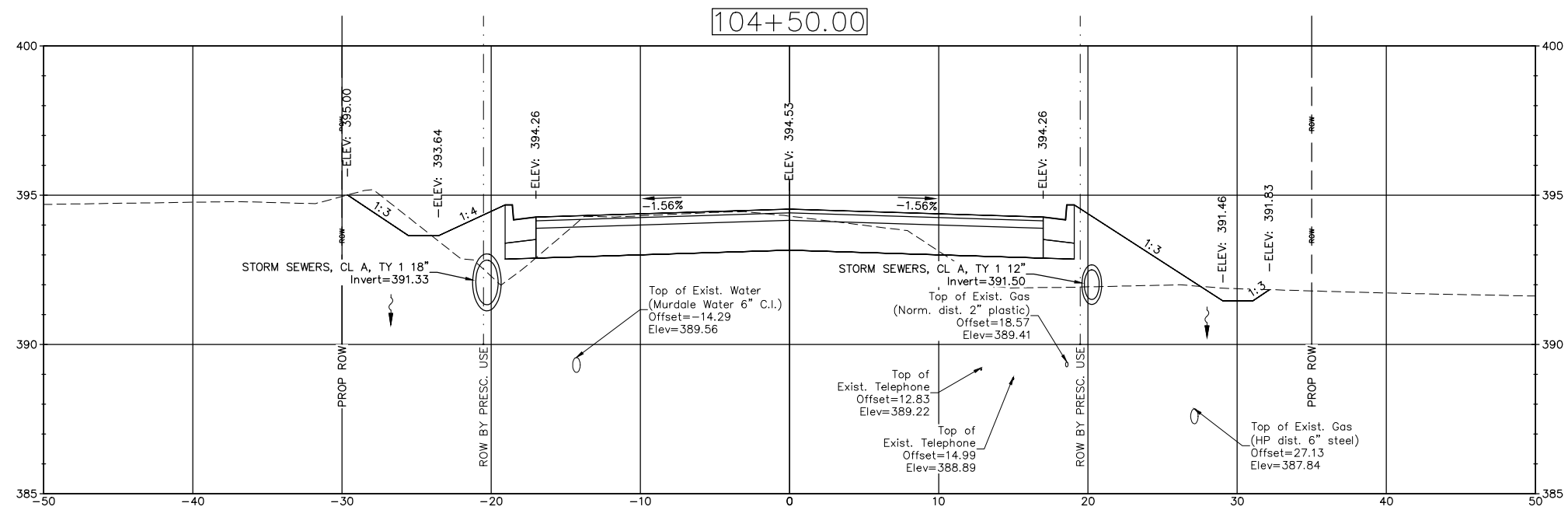




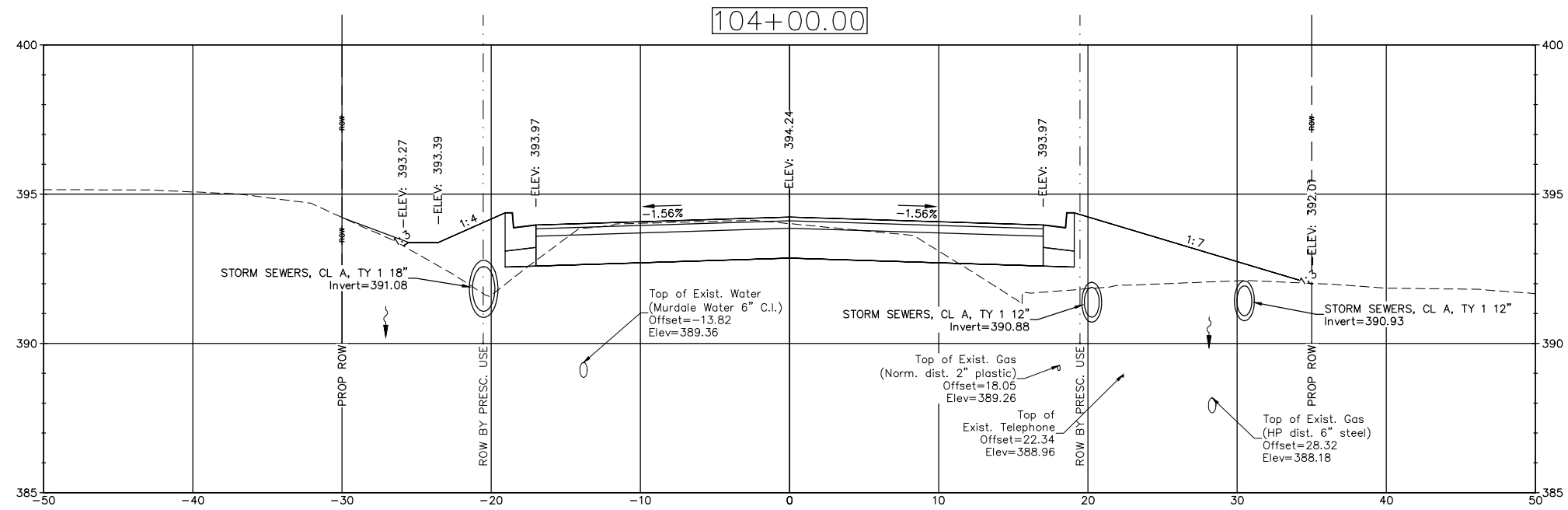
Cut Area (sq ft) = 49.91
 Fill Area (sq ft) = 11.16



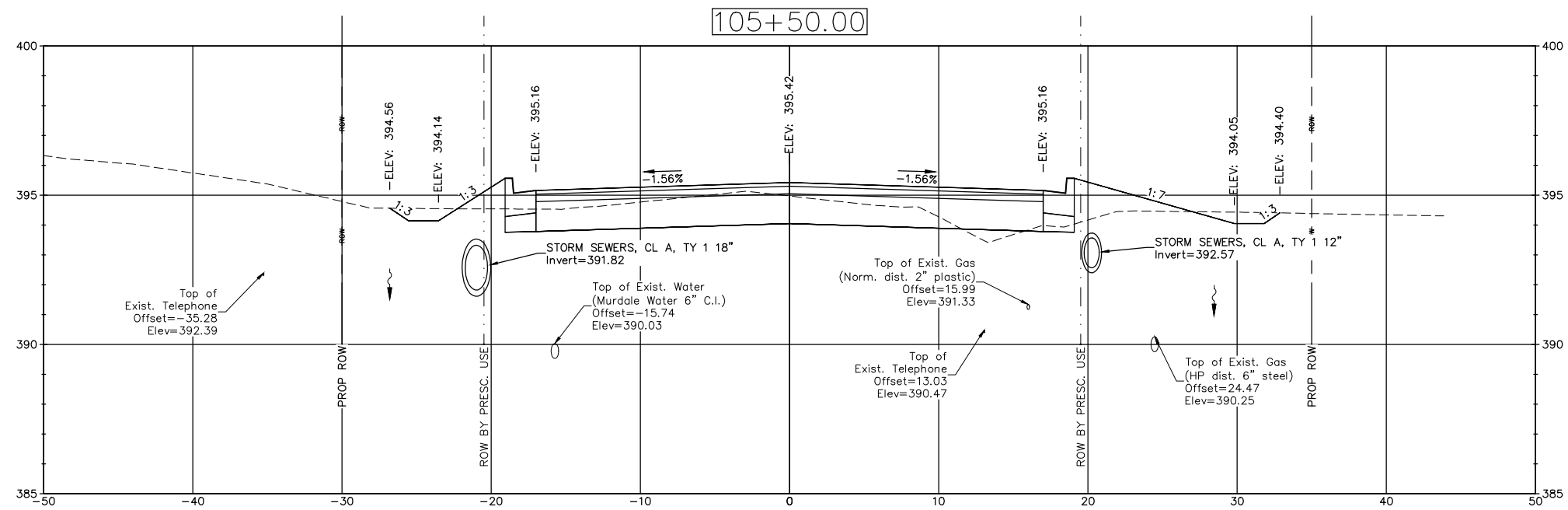
Cut Area (sq ft) = 30.30
 Fill Area (sq ft) = 37.57



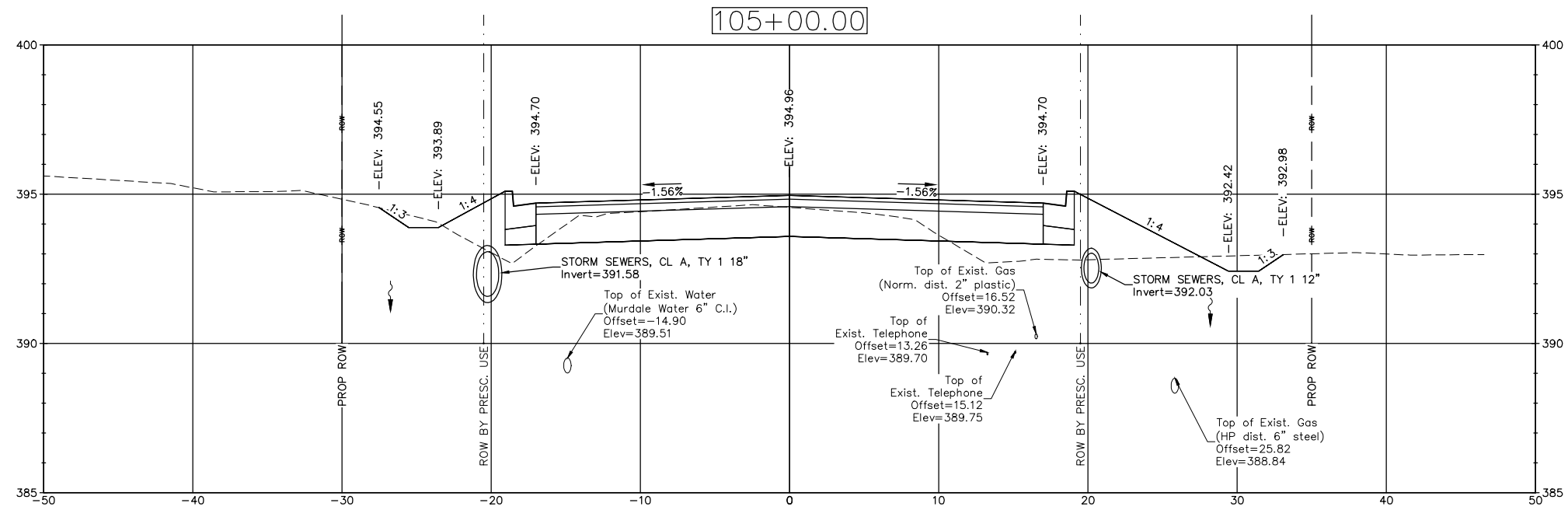
Cut Area (sq ft) = 29.10
 Fill Area (sq ft) = 25.86



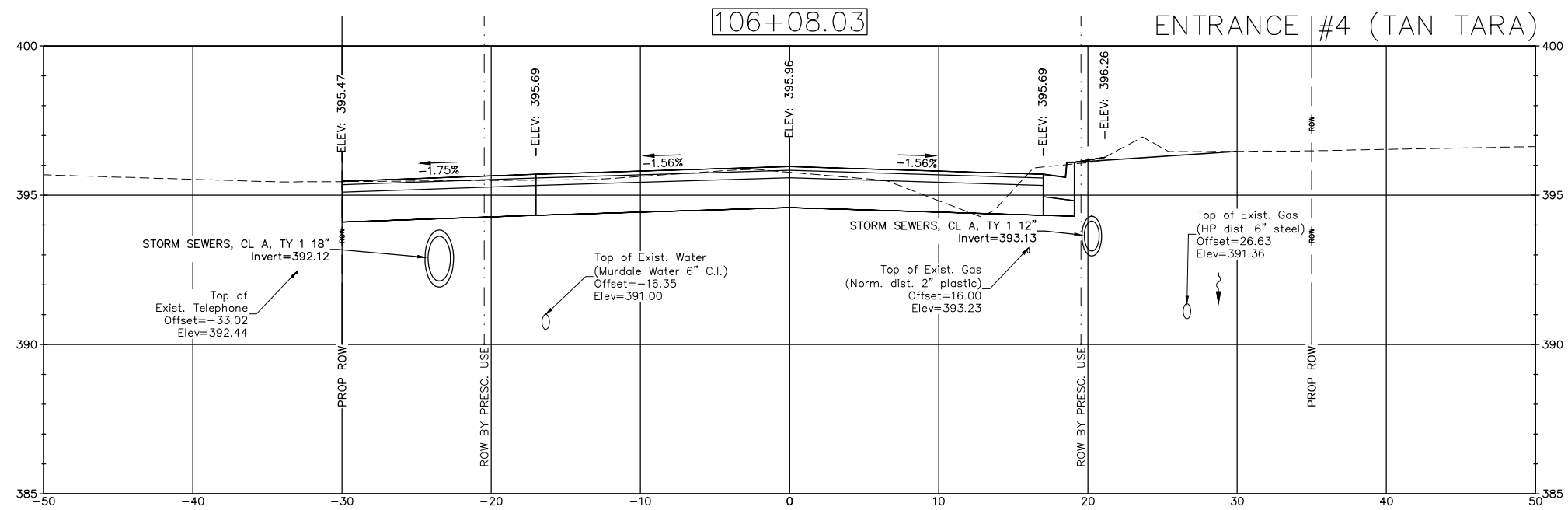
Cut Area (sq ft) = 26.33
 Fill Area (sq ft) = 35.28



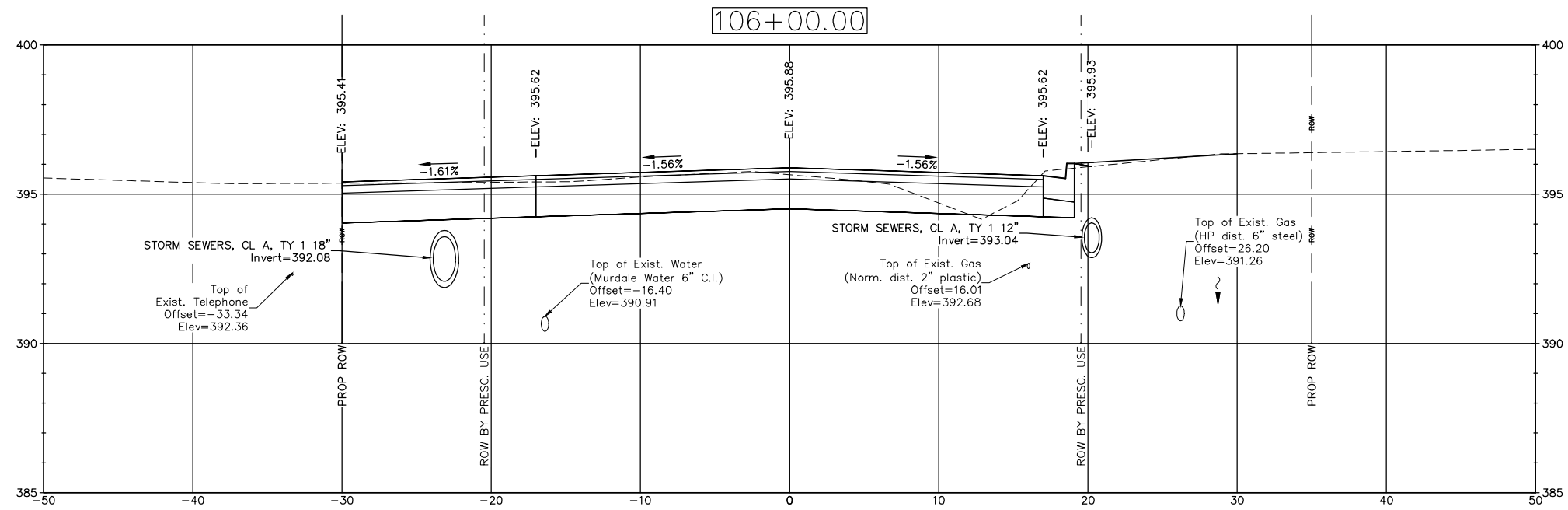
Cut Area (sq ft) = 23.53
Fill Area (sq ft) = 7.80



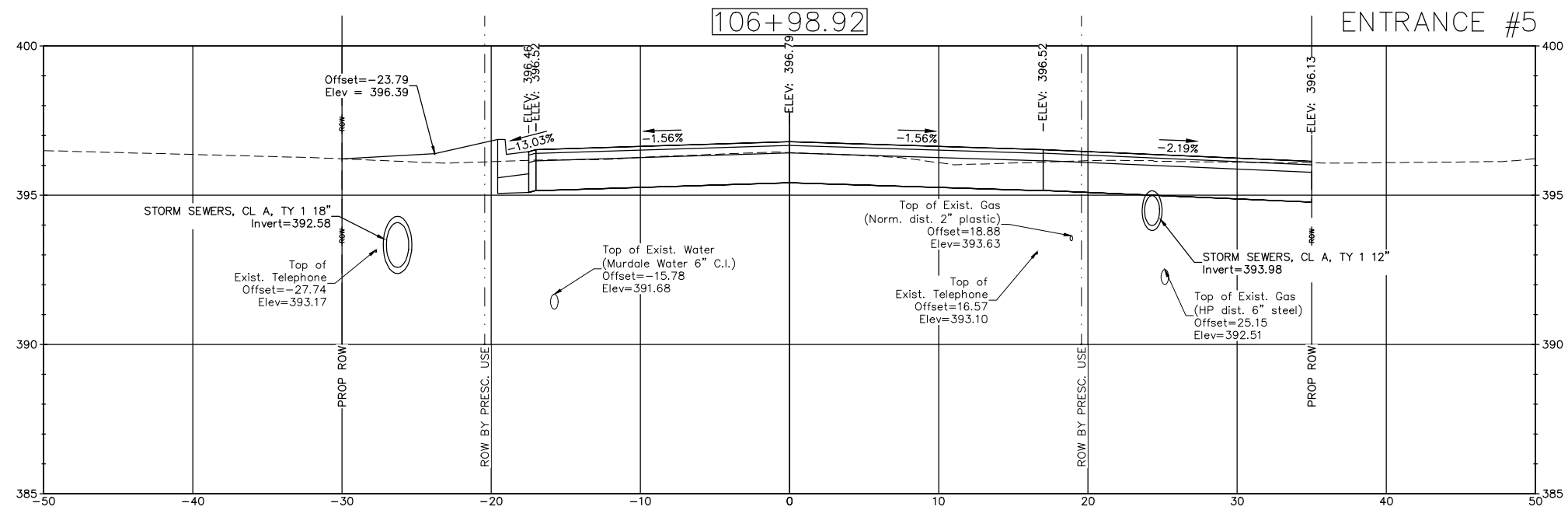
Cut Area (sq ft) = 22.95
Fill Area (sq ft) = 19.69



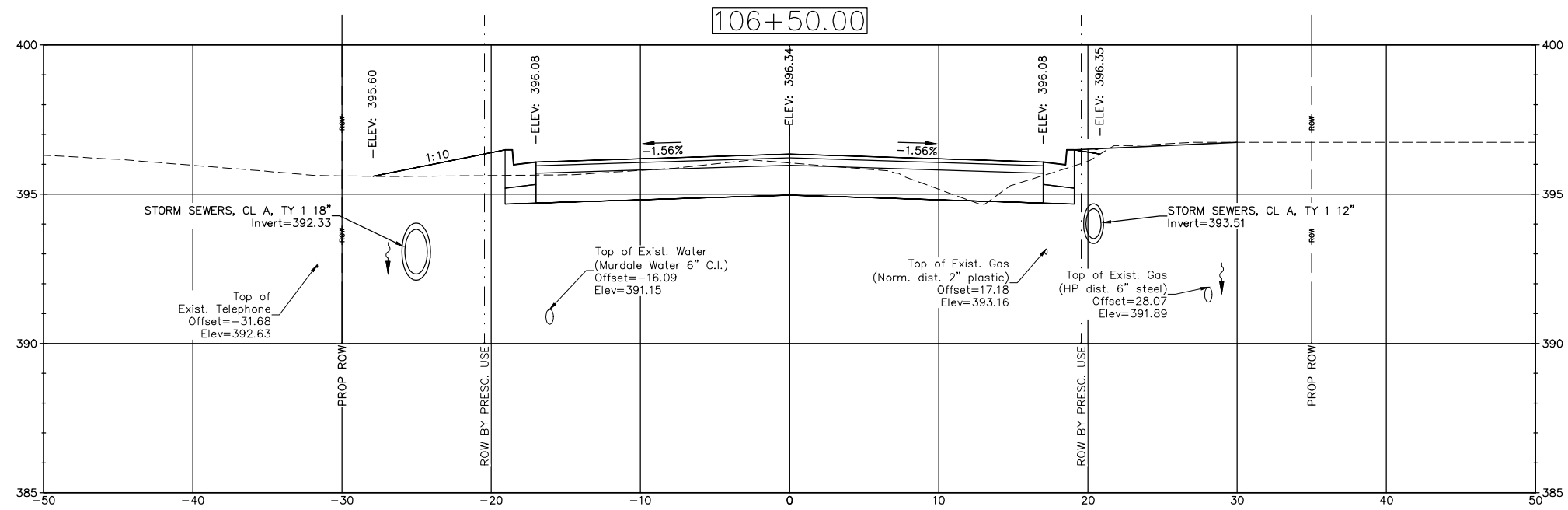
Cut Area (sq ft) = 48.92
 Fill Area (sq ft) = 0.12



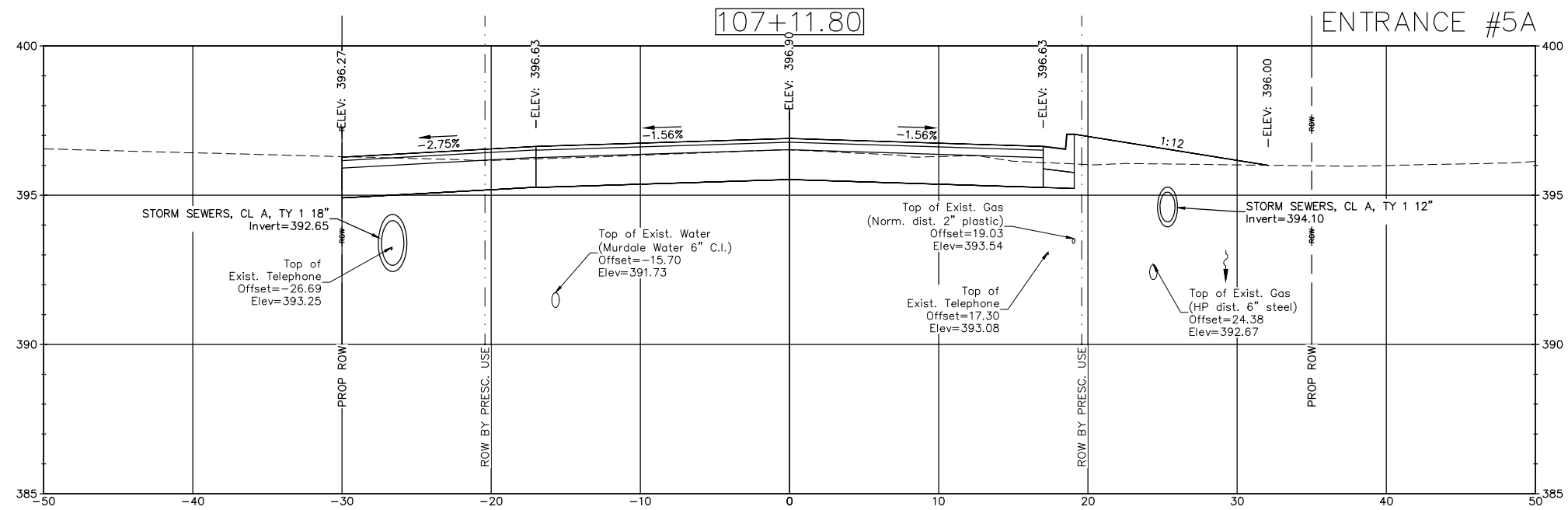
Cut Area (sq ft) = 46.33
 Fill Area (sq ft) = 0.21



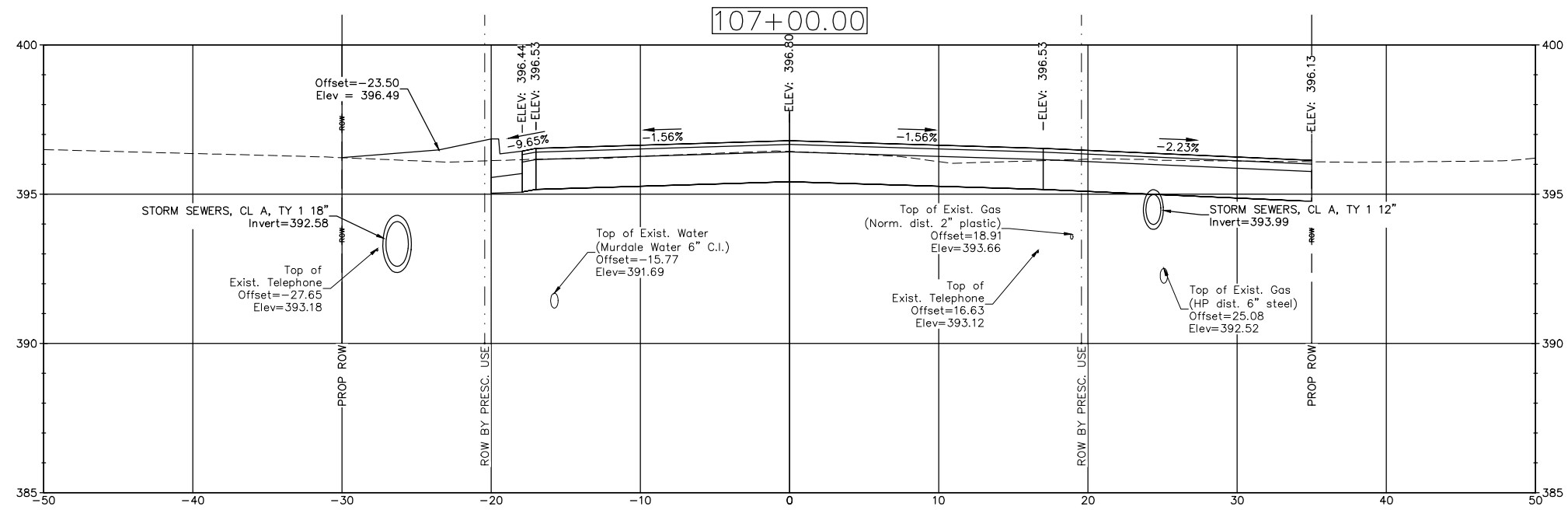
Cut Area (sq ft) = 53.35
 Fill Area (sq ft) = 0.00



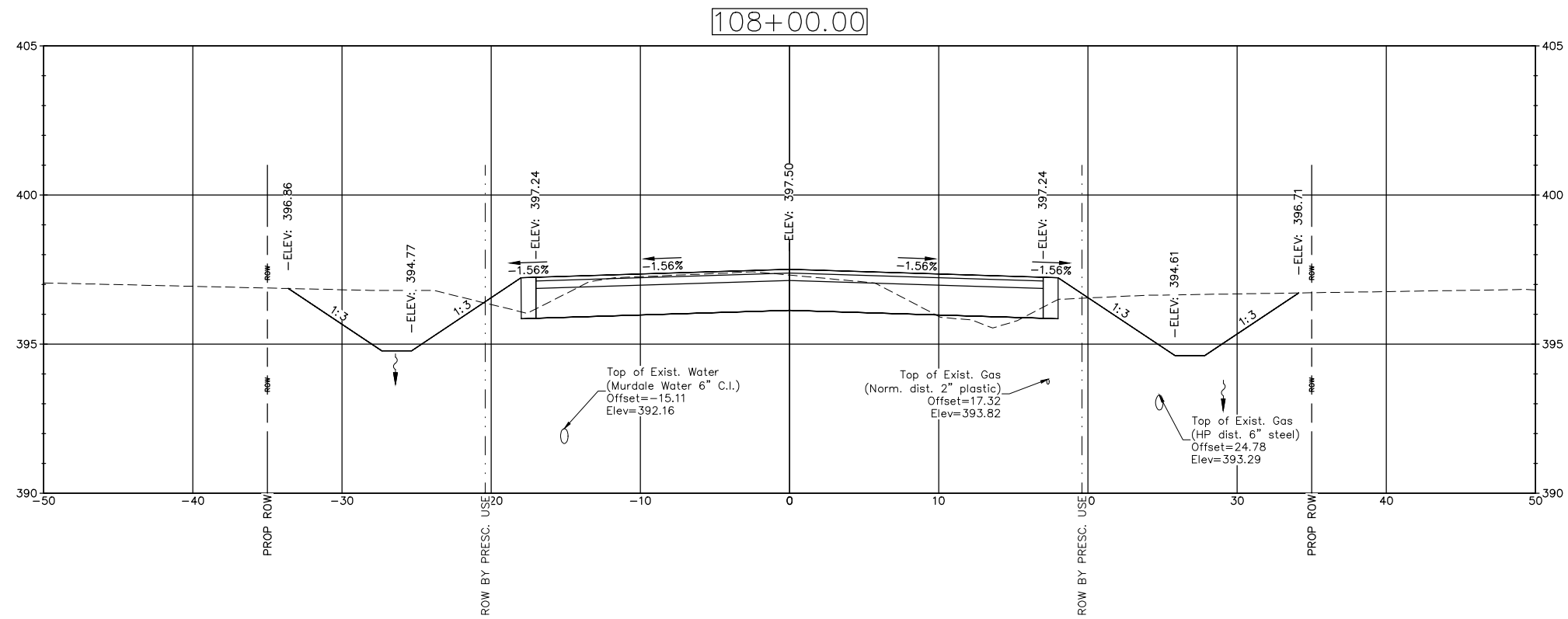
Cut Area (sq ft) = 31.72
 Fill Area (sq ft) = 5.91



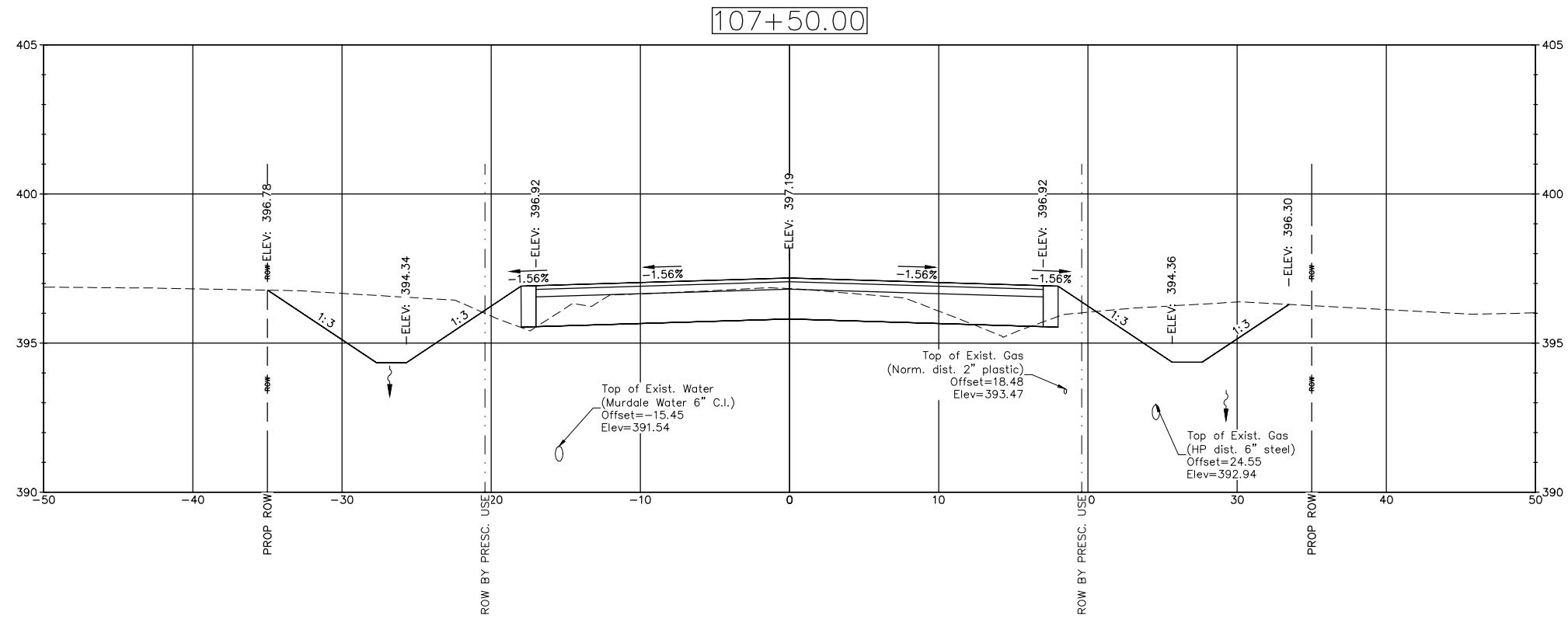
Cut Area (sq ft) = 44.25
 Fill Area (sq ft) = 6.35



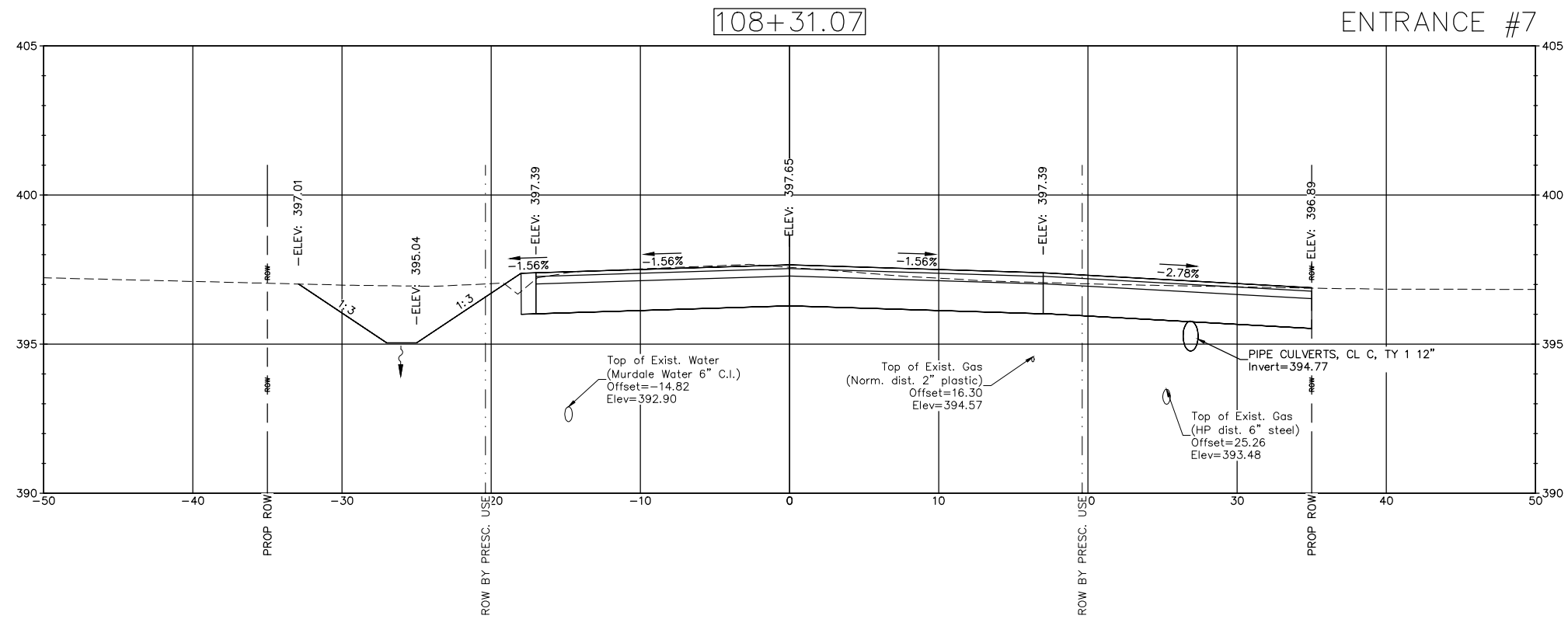
Cut Area (sq ft) = 55.71
 Fill Area (sq ft) = 0.00



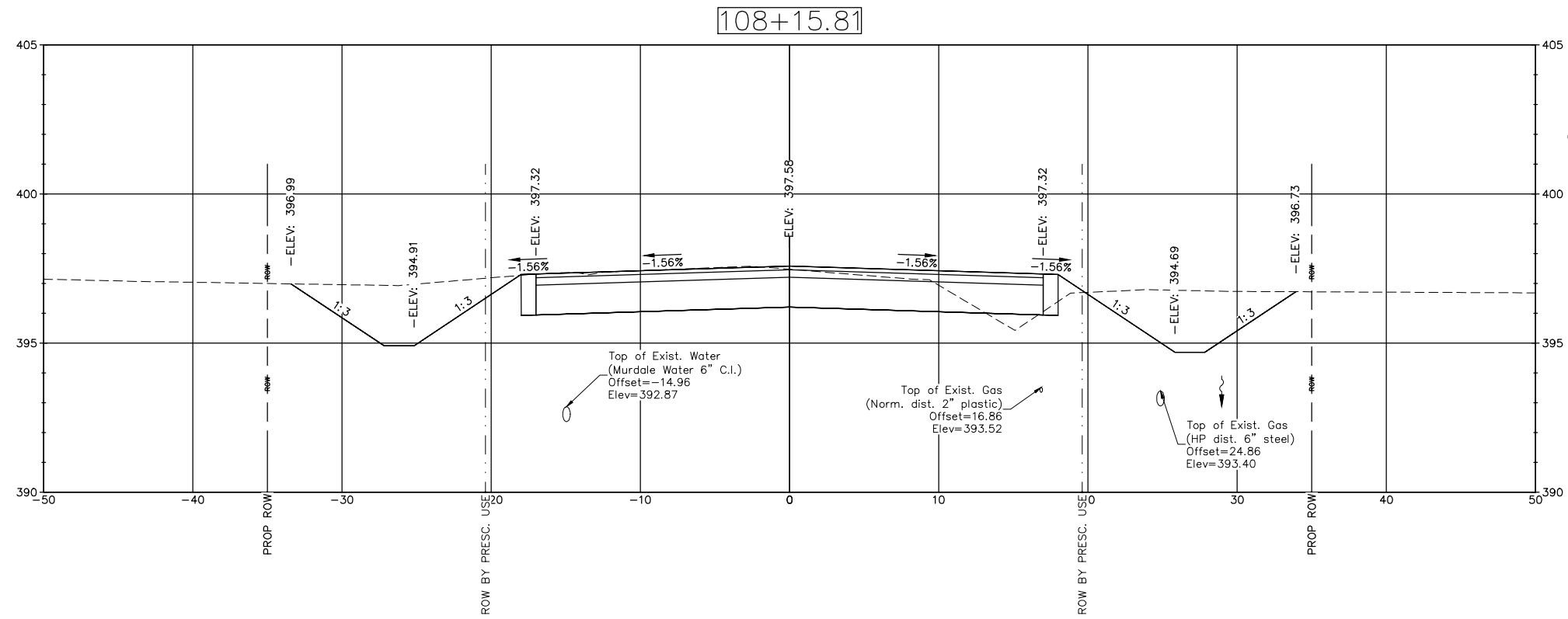
Cut Area (sq ft) = 57.47
 Fill Area (sq ft) = 3.38



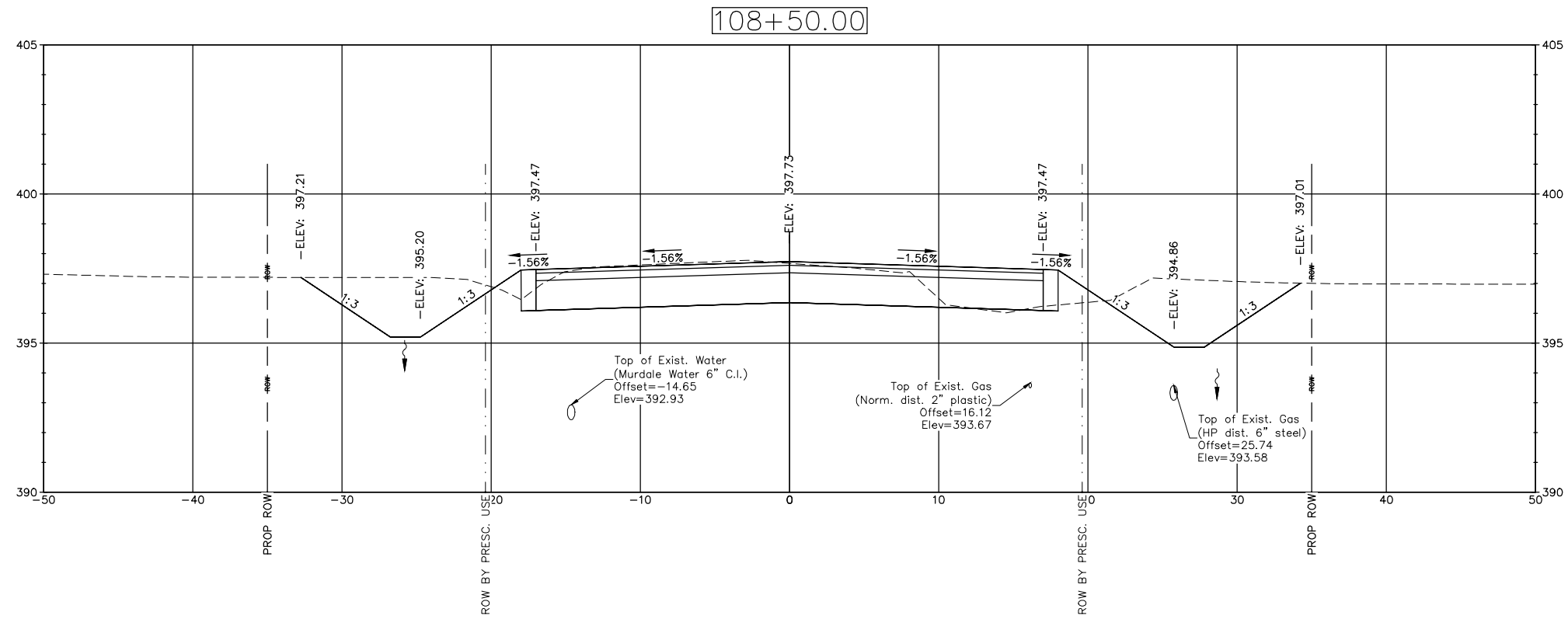
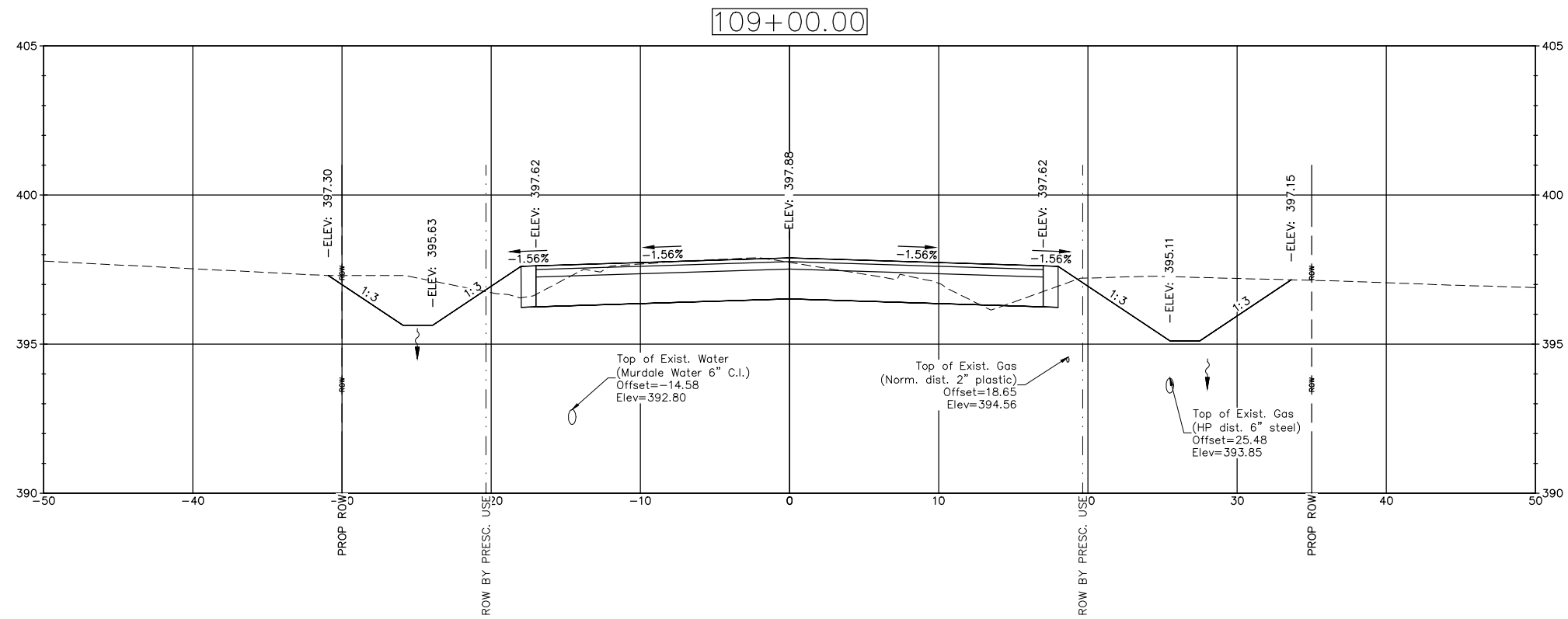
Cut Area (sq ft) = 54.20
 Fill Area (sq ft) = 3.91

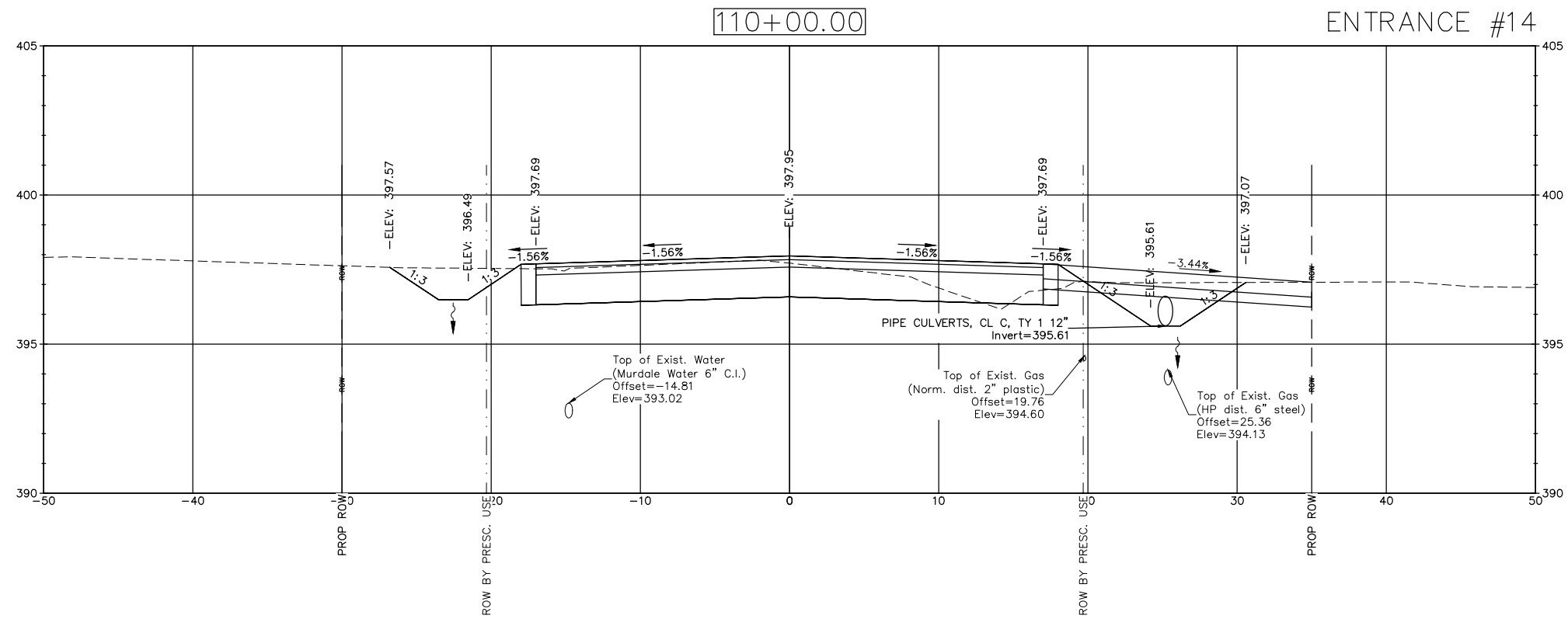


Cut Area (sq ft) = 76.40
 Fill Area (sq ft) = 0.41

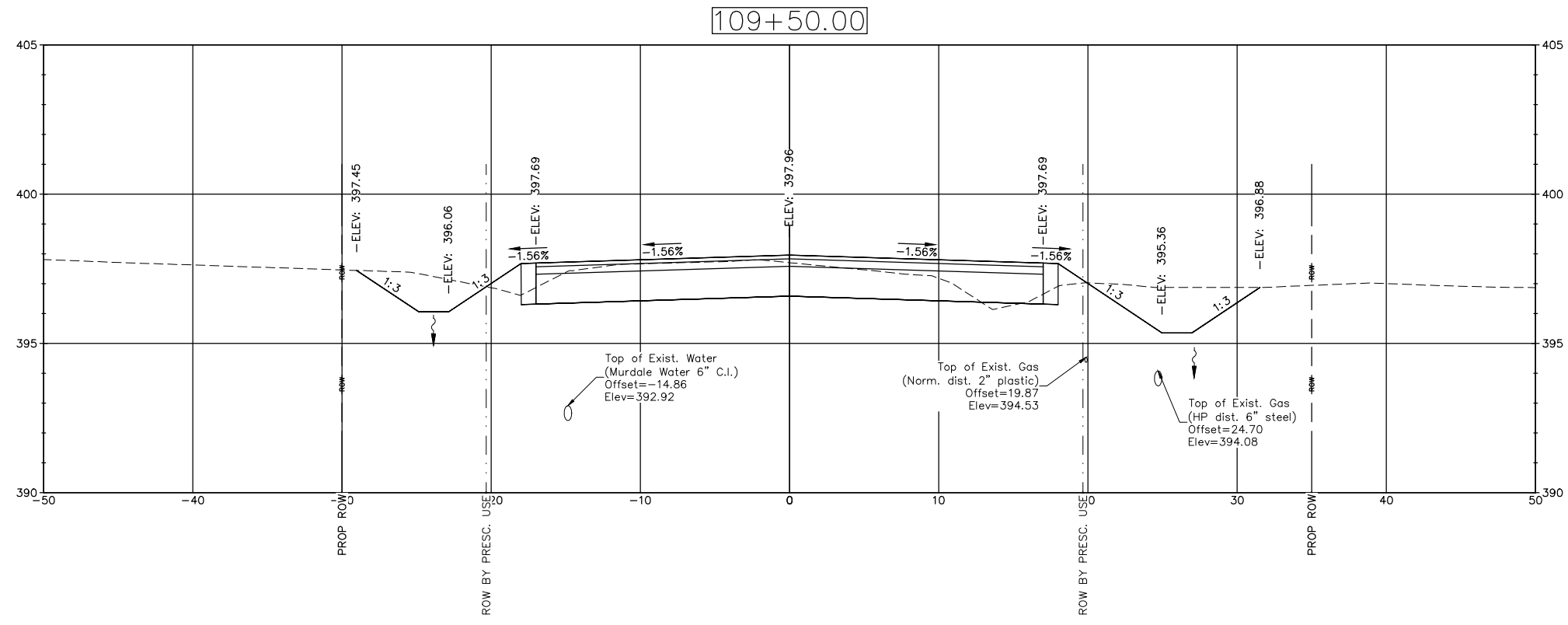


Cut Area (sq ft) = 69.02
 Fill Area (sq ft) = 1.64

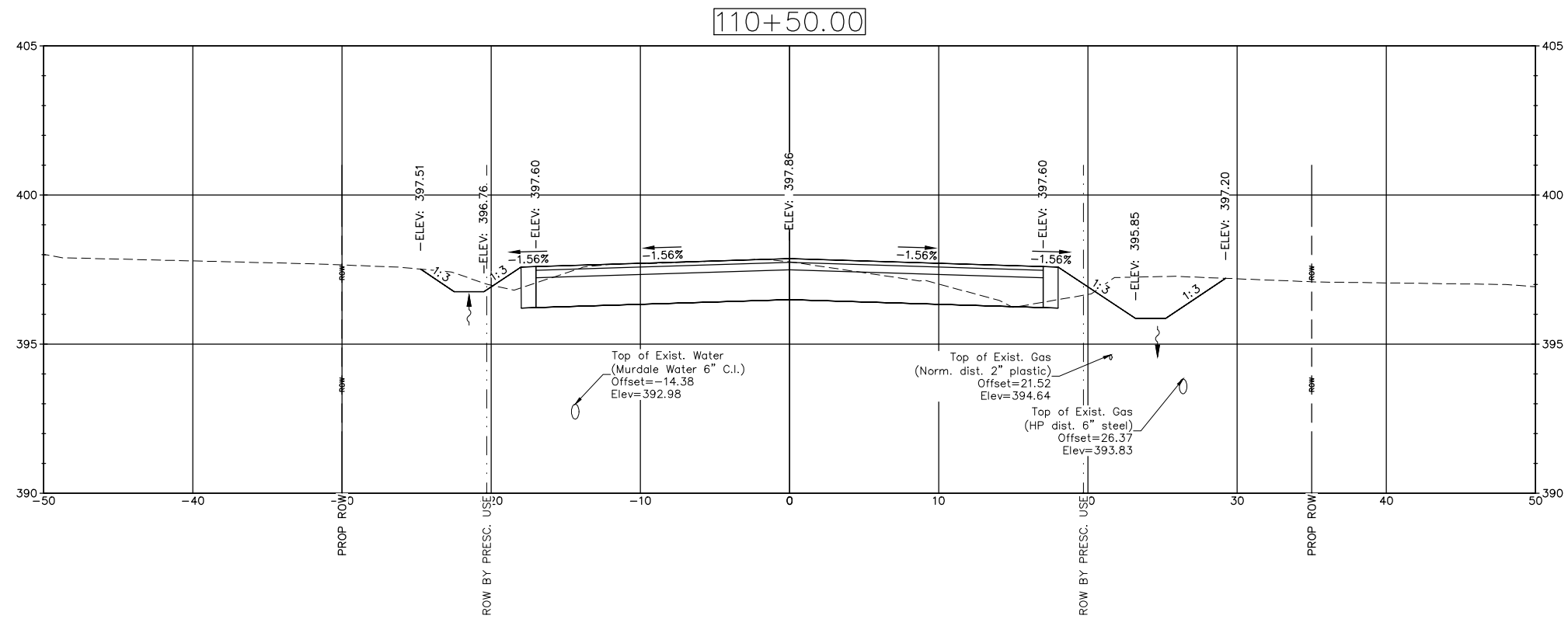




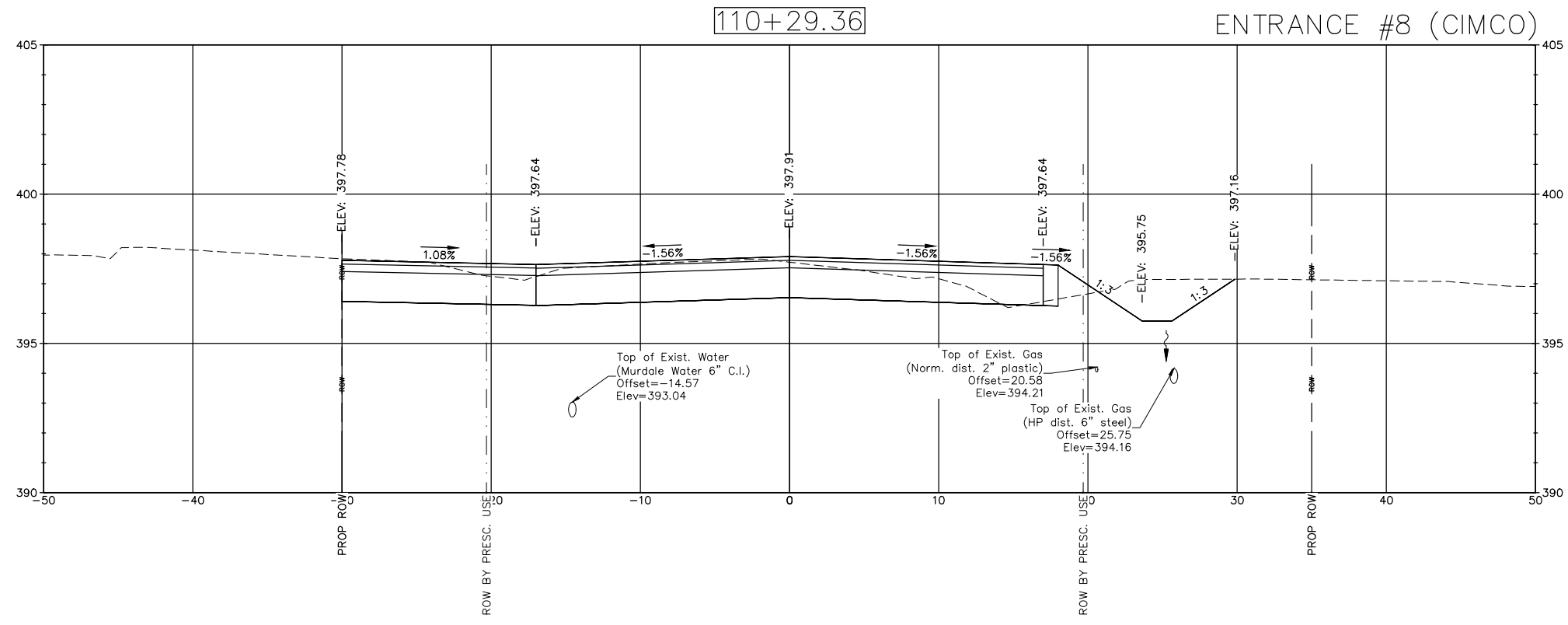
Cut Area (sq ft) = 43.83
 Fill Area (sq ft) = 0.90



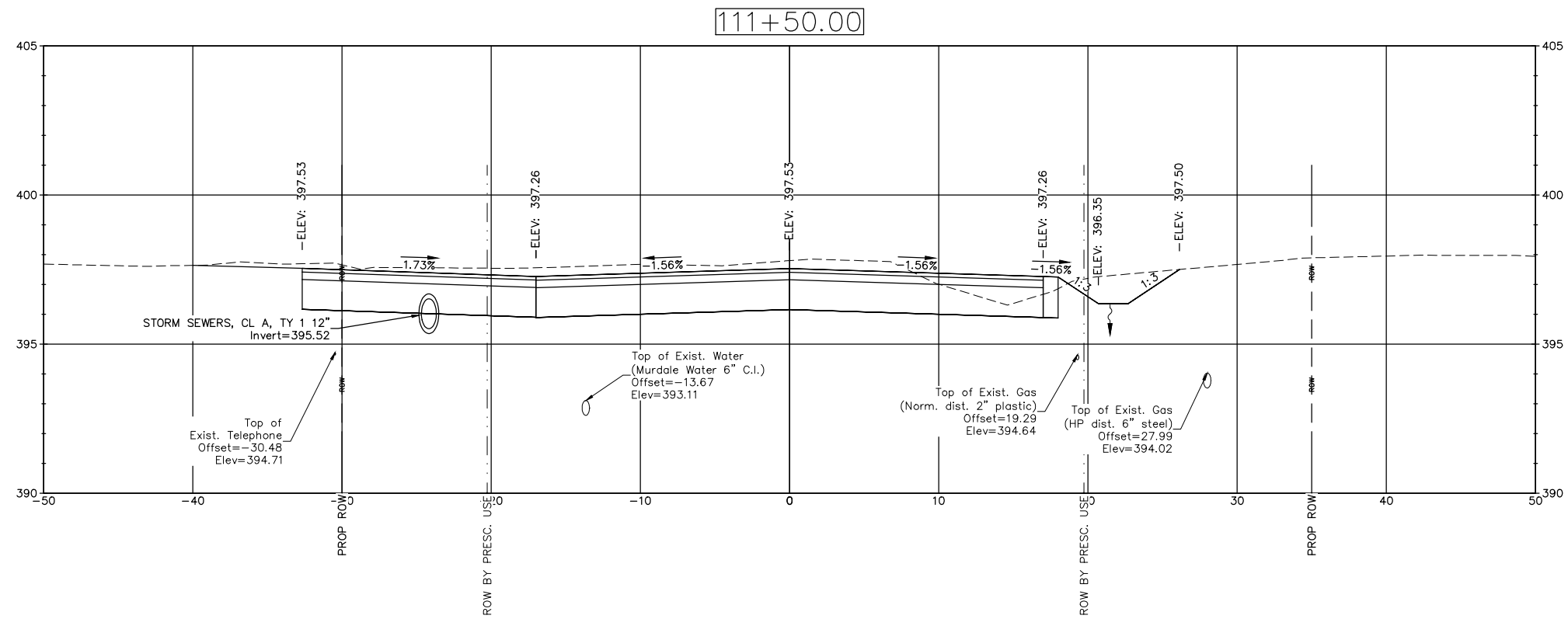
Cut Area (sq ft) = 44.88
 Fill Area (sq ft) = 2.25



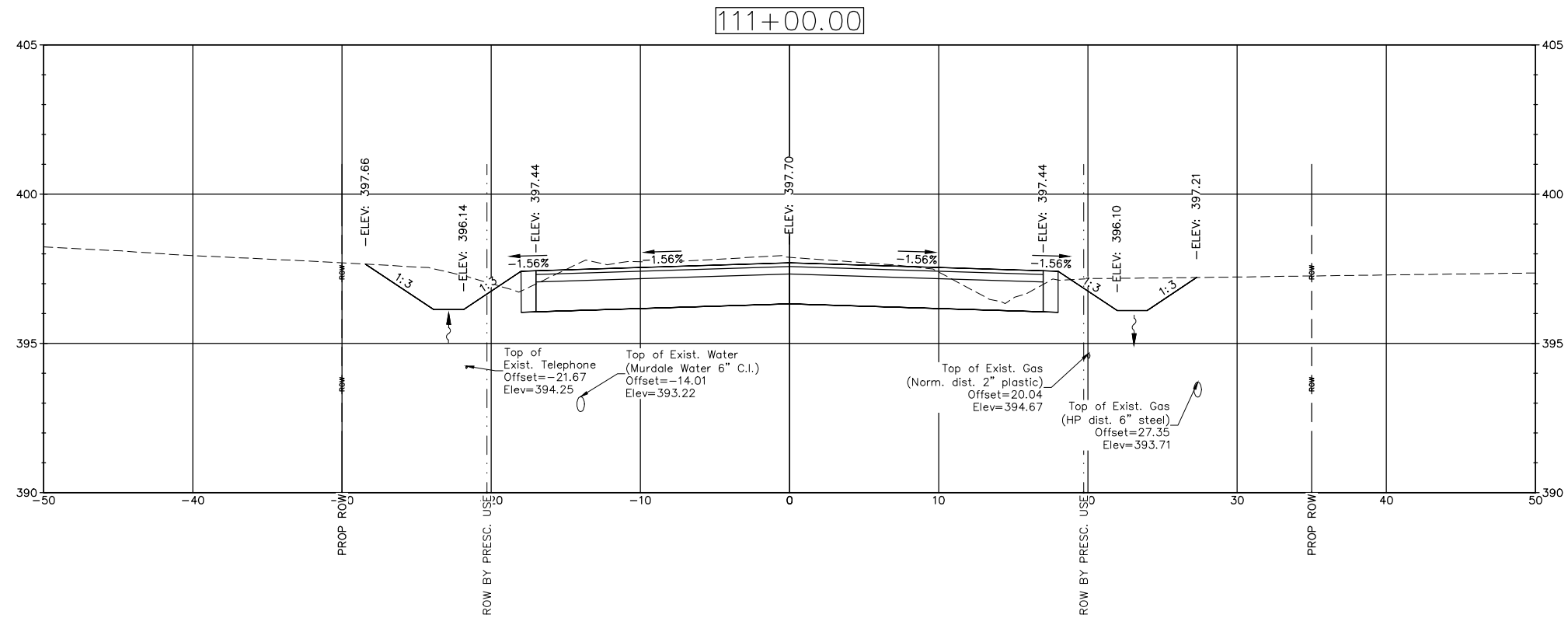
Cut Area (sq ft) = 45.75
 Fill Area (sq ft) = 2.18



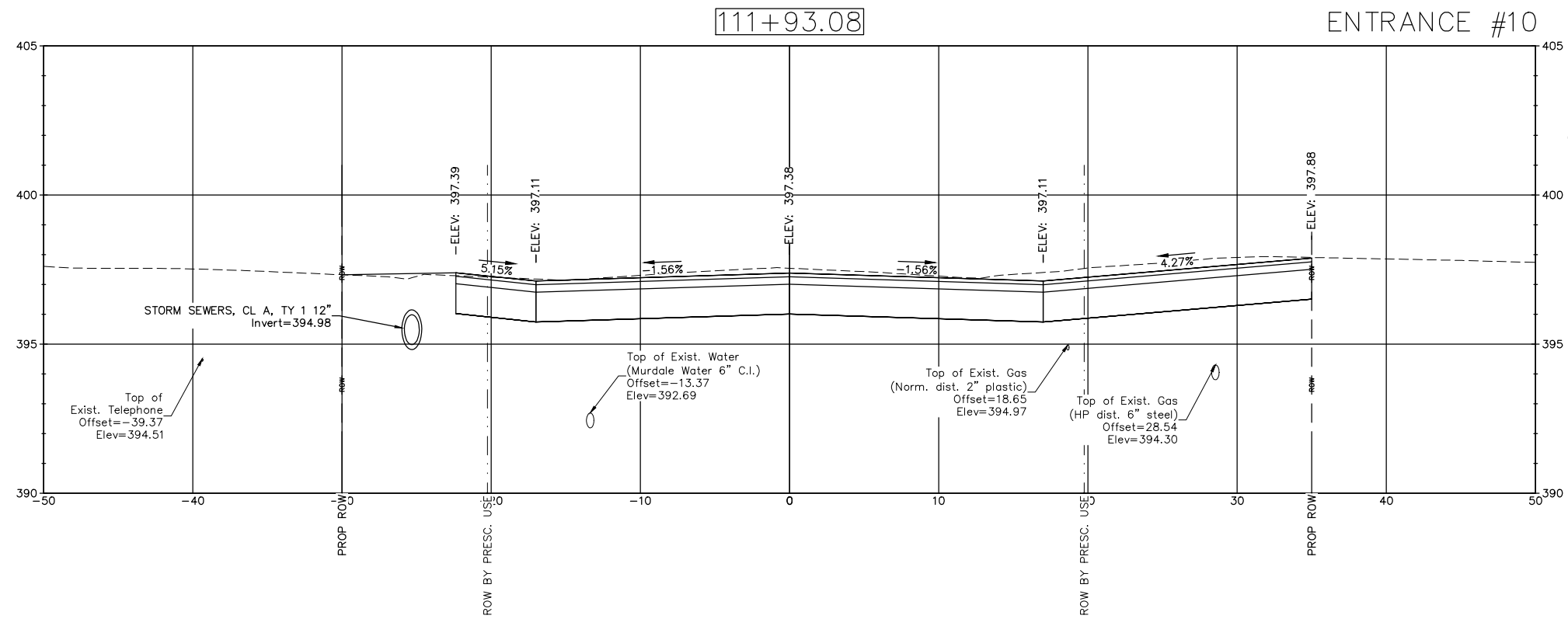
Cut Area (sq ft) = 50.09
 Fill Area (sq ft) = 1.62



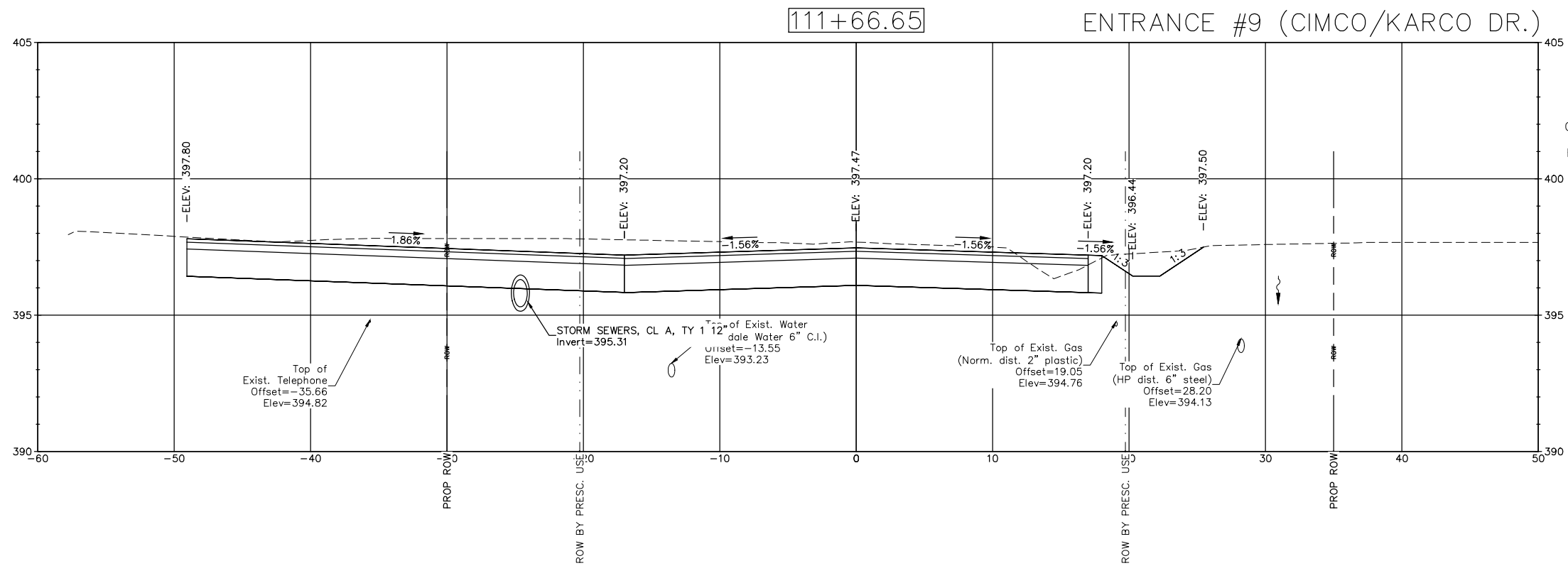
Cut Area (sq ft) = 90.78
Fill Area (sq ft) = 0.13



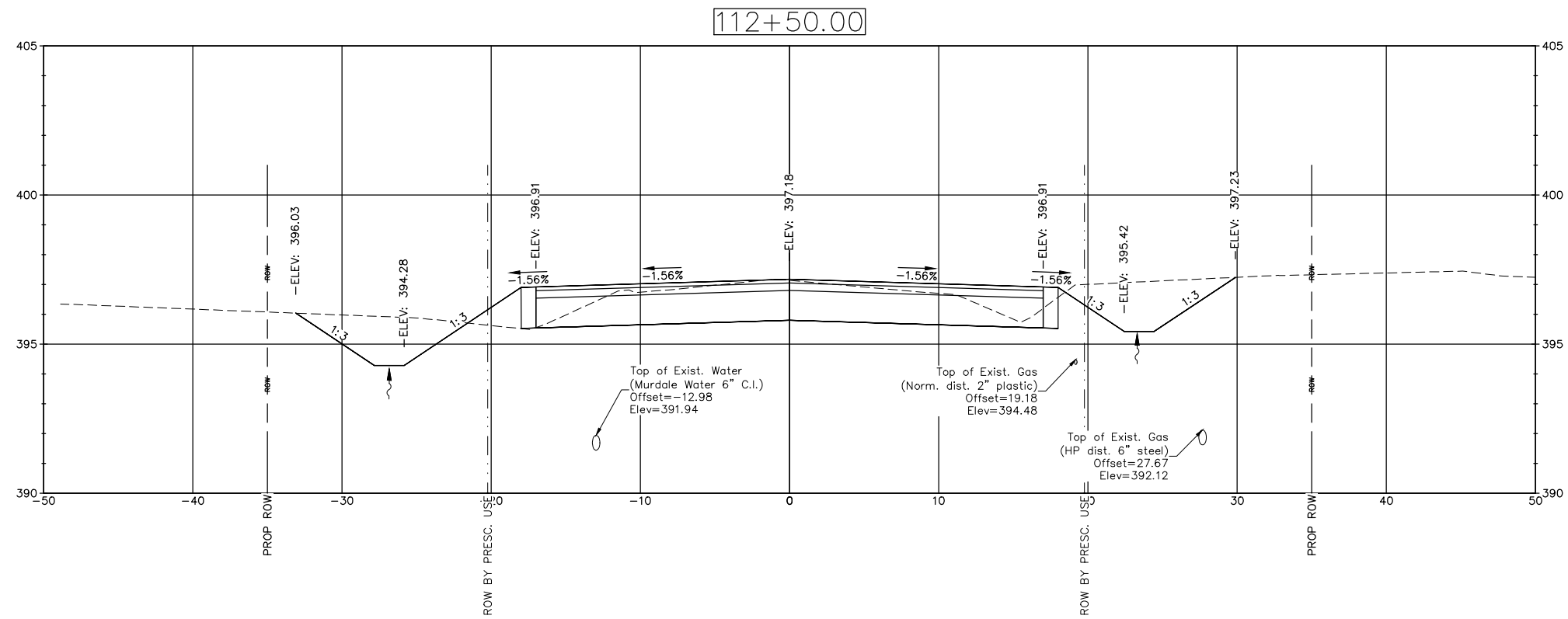
Cut Area (sq ft) = 65.26
Fill Area (sq ft) = 0.66



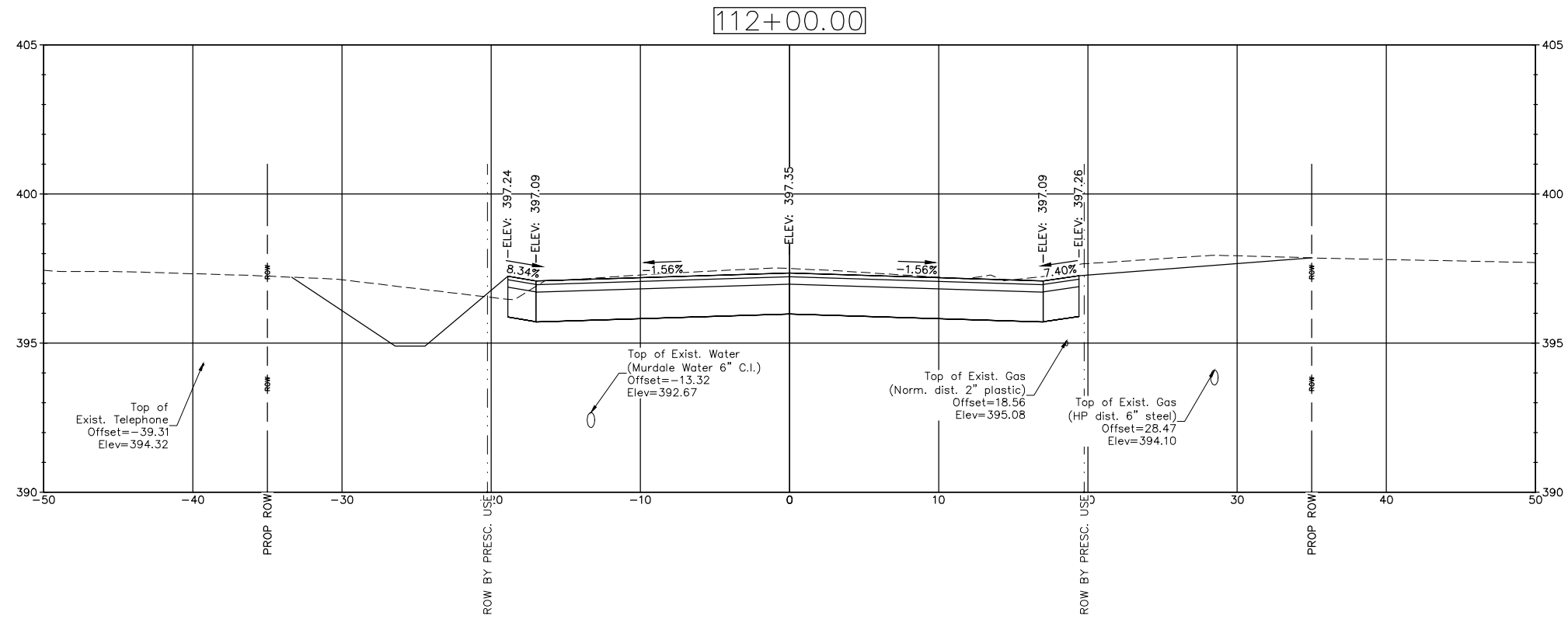
Cut Area (sq ft) = 101.71
 Fill Area (sq ft) = 0.00



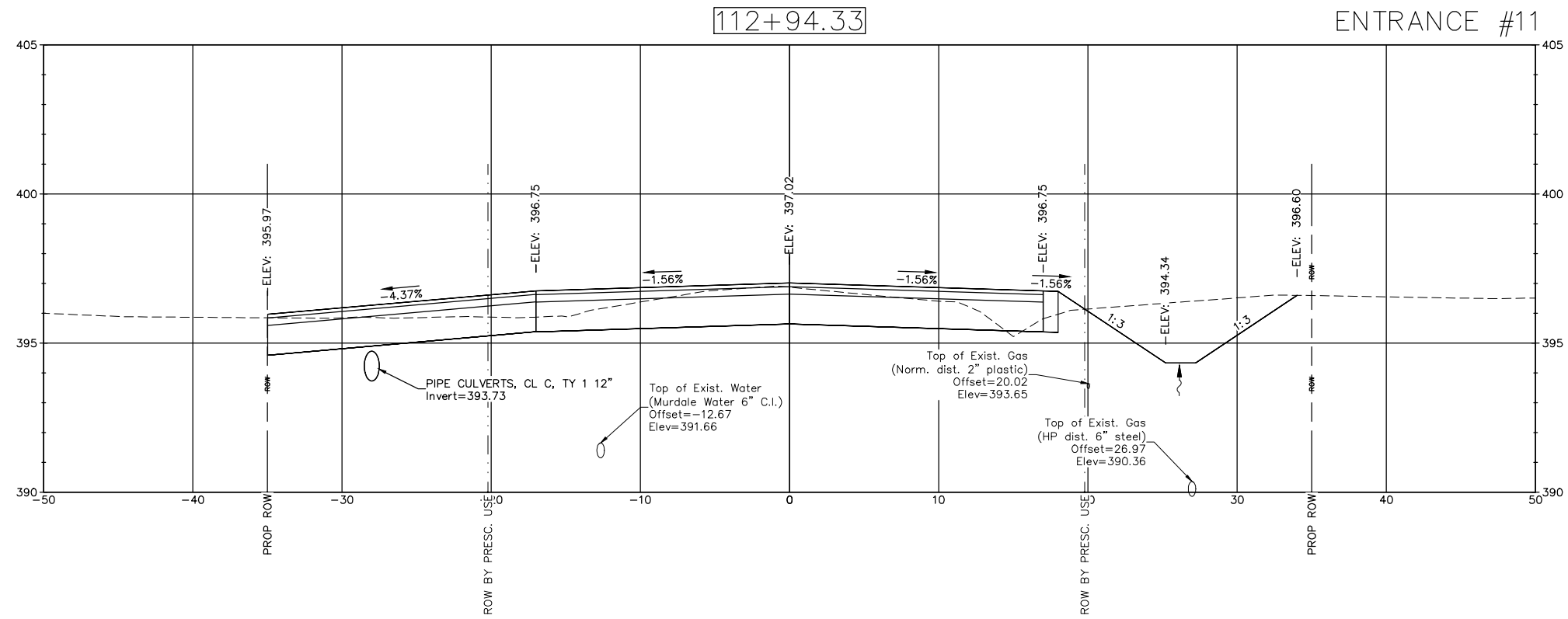
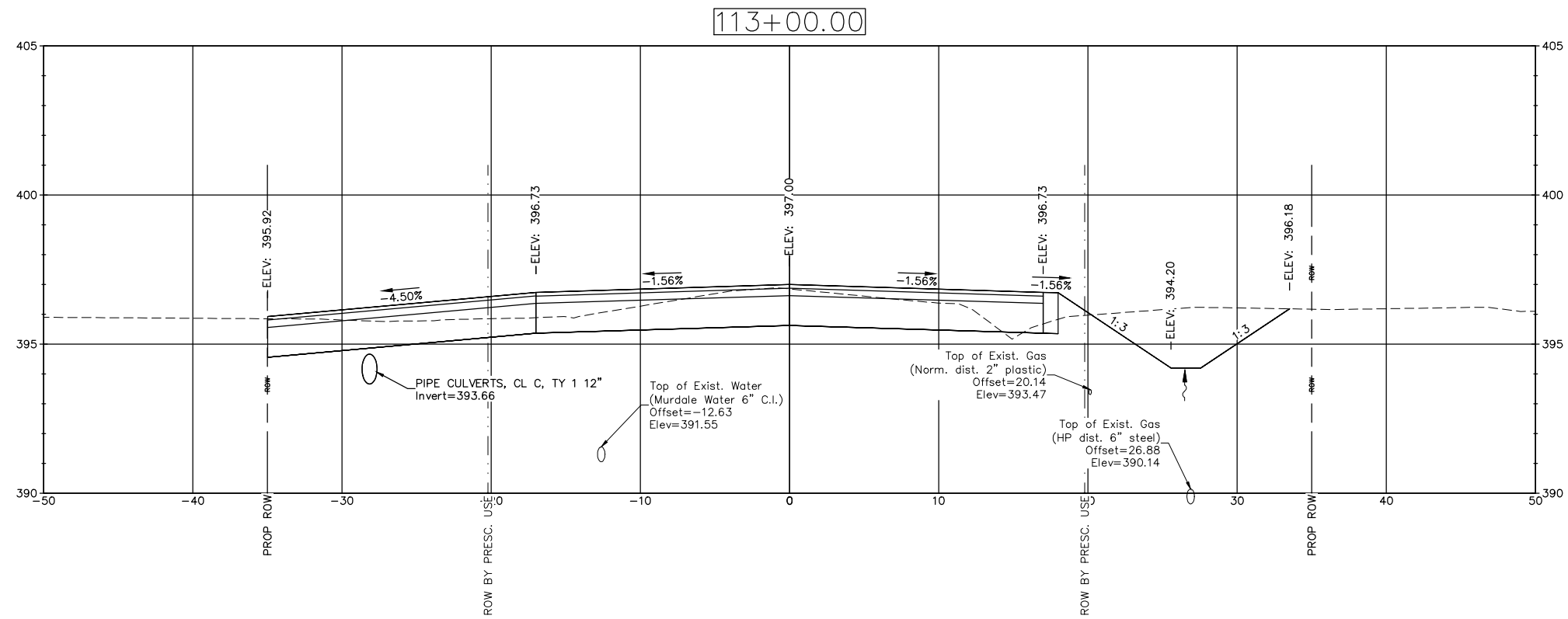
Cut Area (sq ft) = 104.06
 Fill Area (sq ft) = 0.01



Cut Area (sq ft) = 52.77
 Fill Area (sq ft) = 2.56

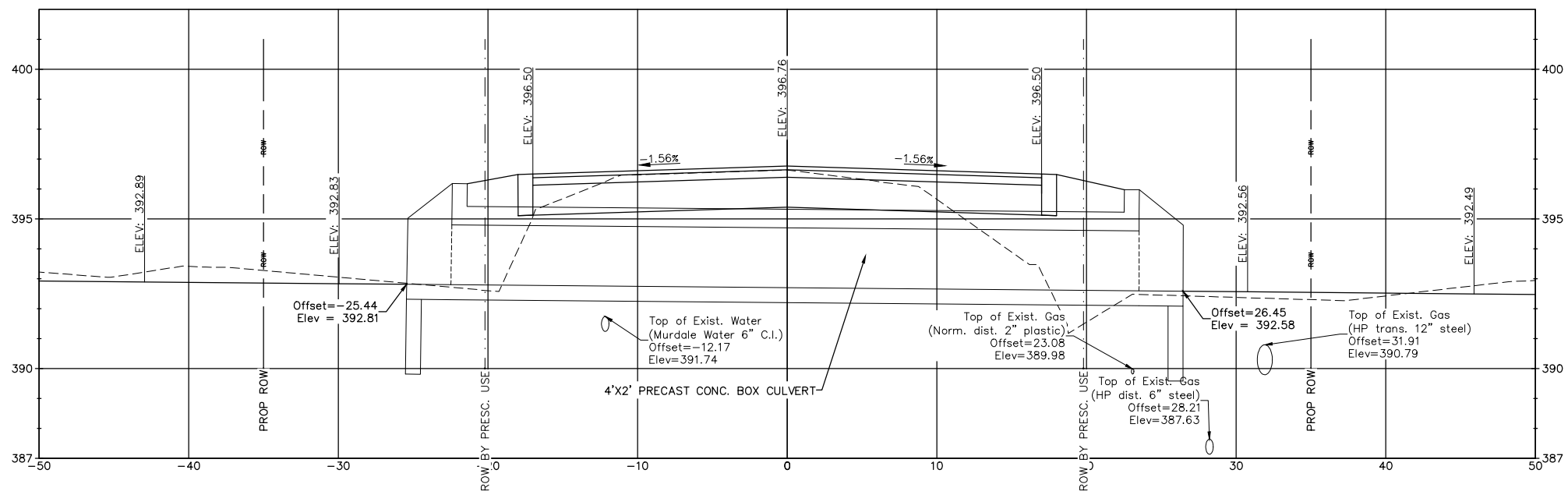


Cut Area (sq ft) = 87.23
 Fill Area (sq ft) = 0.00



113+67.13

PROPOSED BOX CULVERT CROSSING

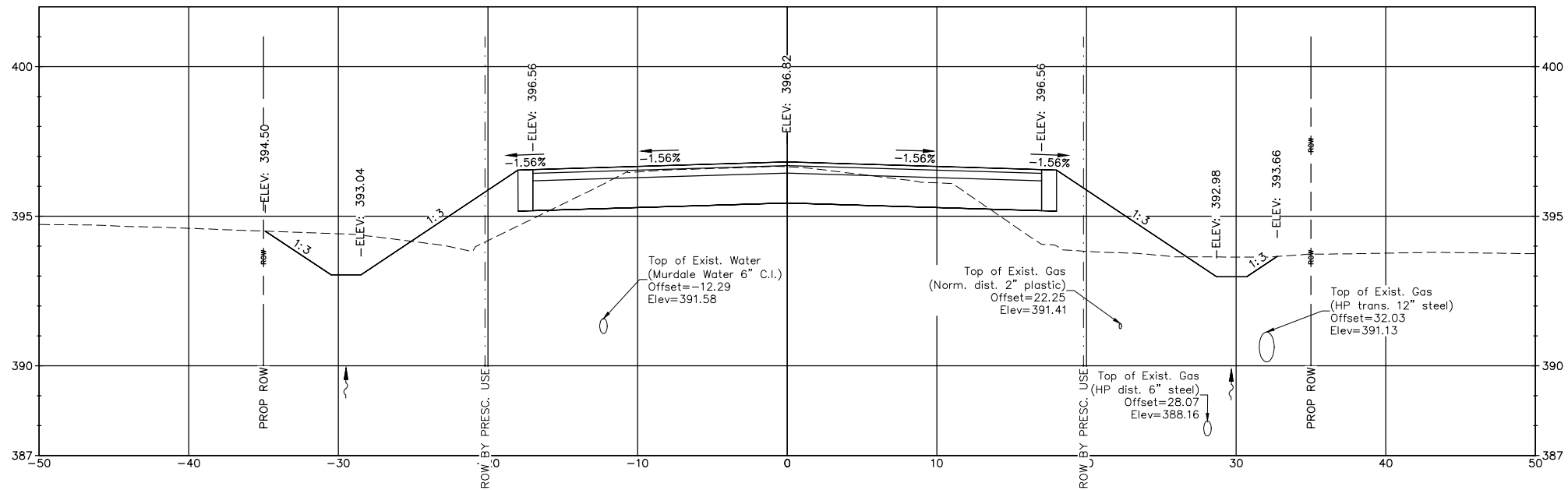


SEE PLAN & PROFILE SHEETS FOR CONTINUATION OF PROPOSED GRADE.

Cut Area (sq ft) = 24.45
Fill Area (sq ft) = 58.72

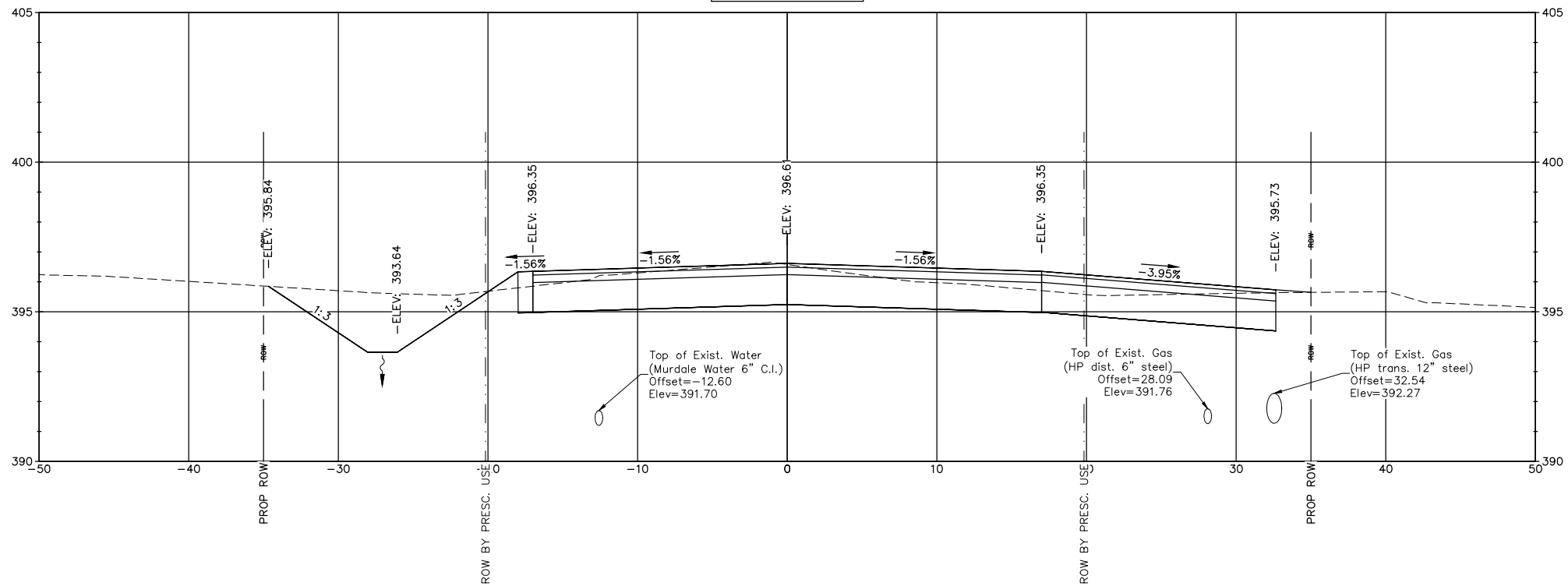
SEE PLAN & PROFILE SHEETS FOR CONTINUATION OF PROPOSED GRADE.

113+50.00



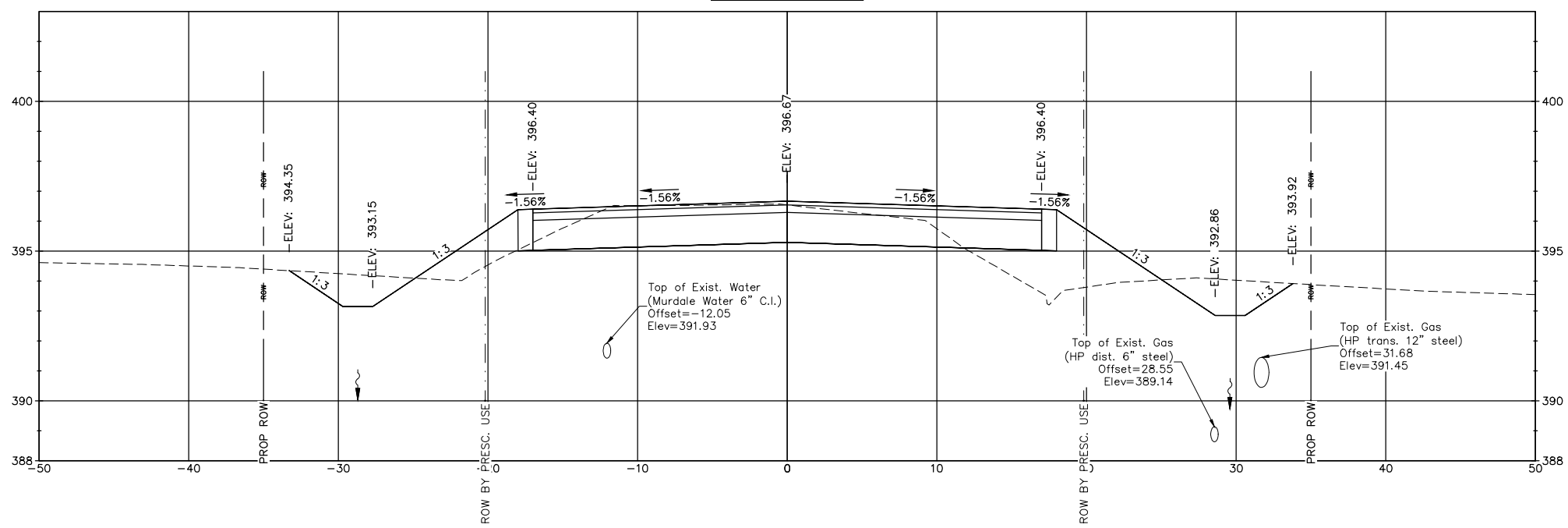
Cut Area (sq ft) = 34.87
Fill Area (sq ft) = 23.96

114+50.00

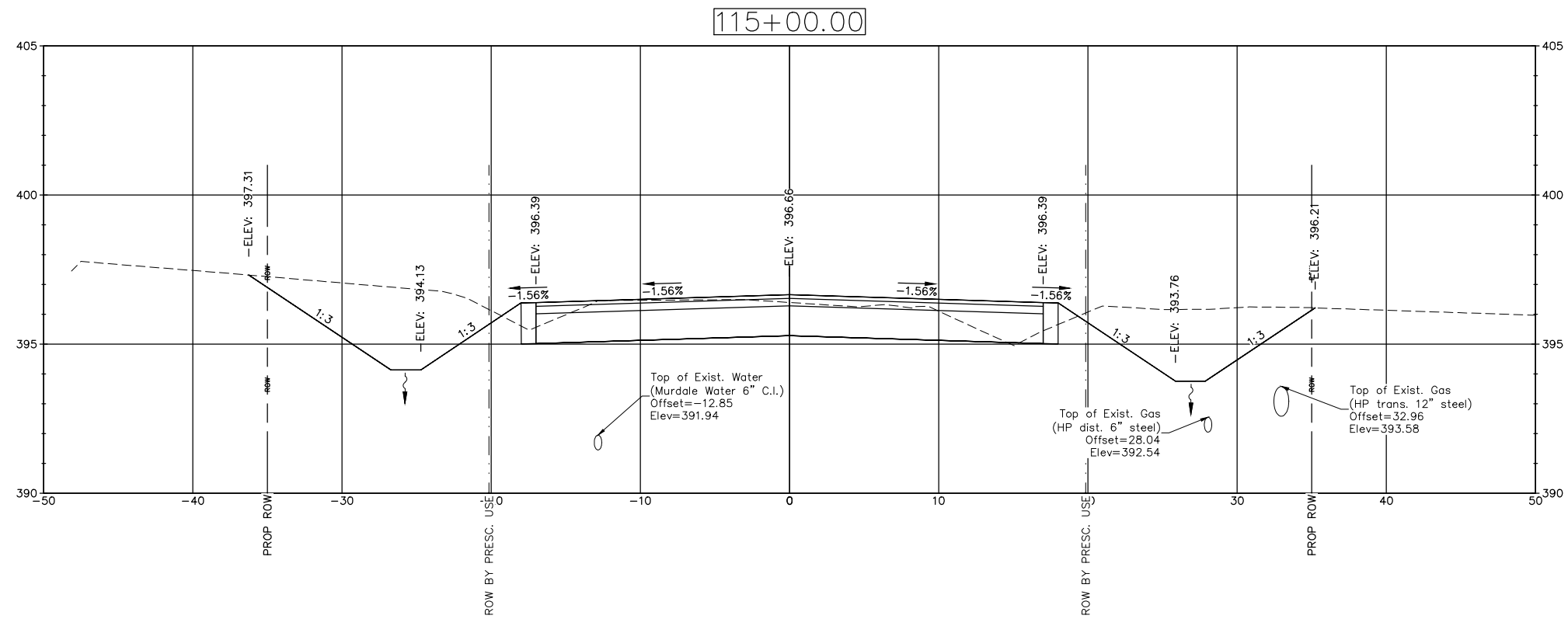


Cut Area (sq ft) = 67.96
Fill Area (sq ft) = 0.52

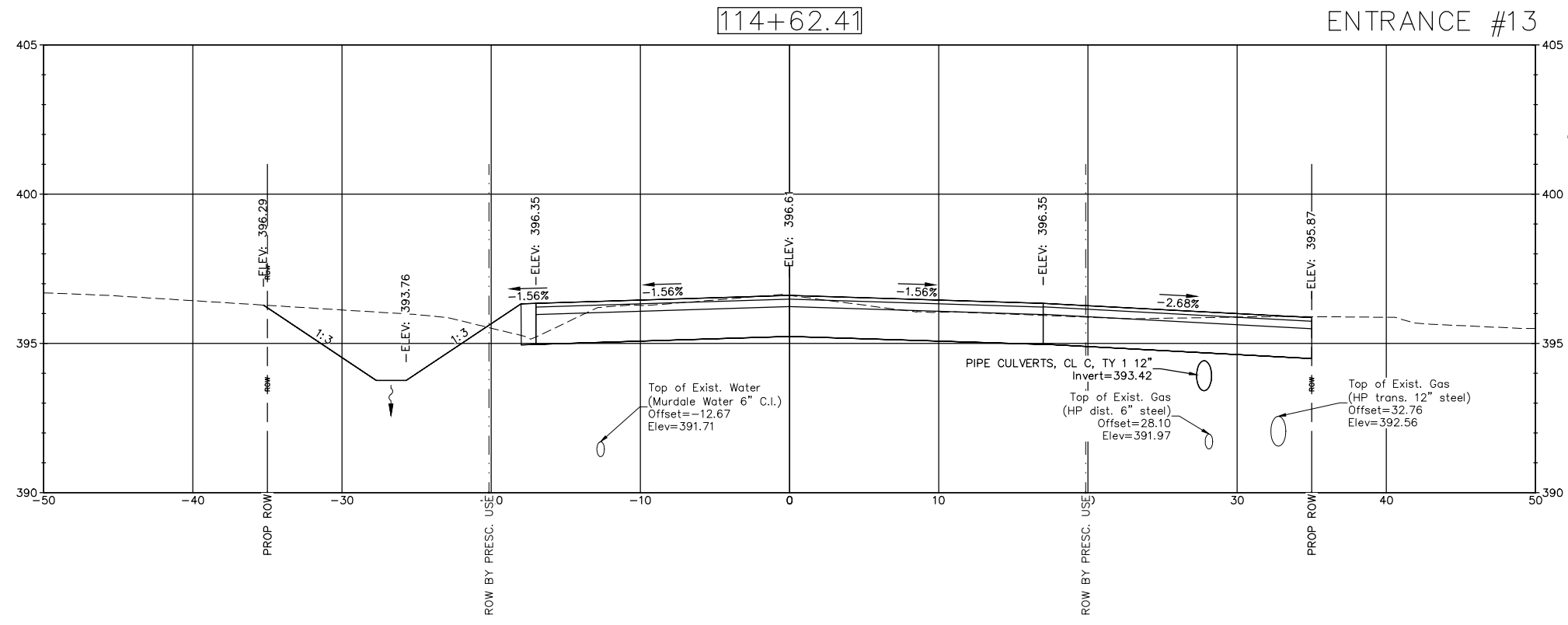
114+00.00



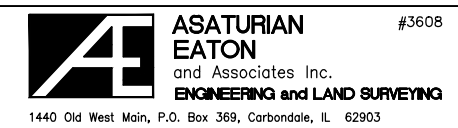
Cut Area (sq ft) = 39.28
Fill Area (sq ft) = 21.35



Cut Area (sq ft) = 80.73
Fill Area (sq ft) = 1.03



Cut Area (sq ft) = 73.32
Fill Area (sq ft) = 1.24



DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

CROSS SECTIONS

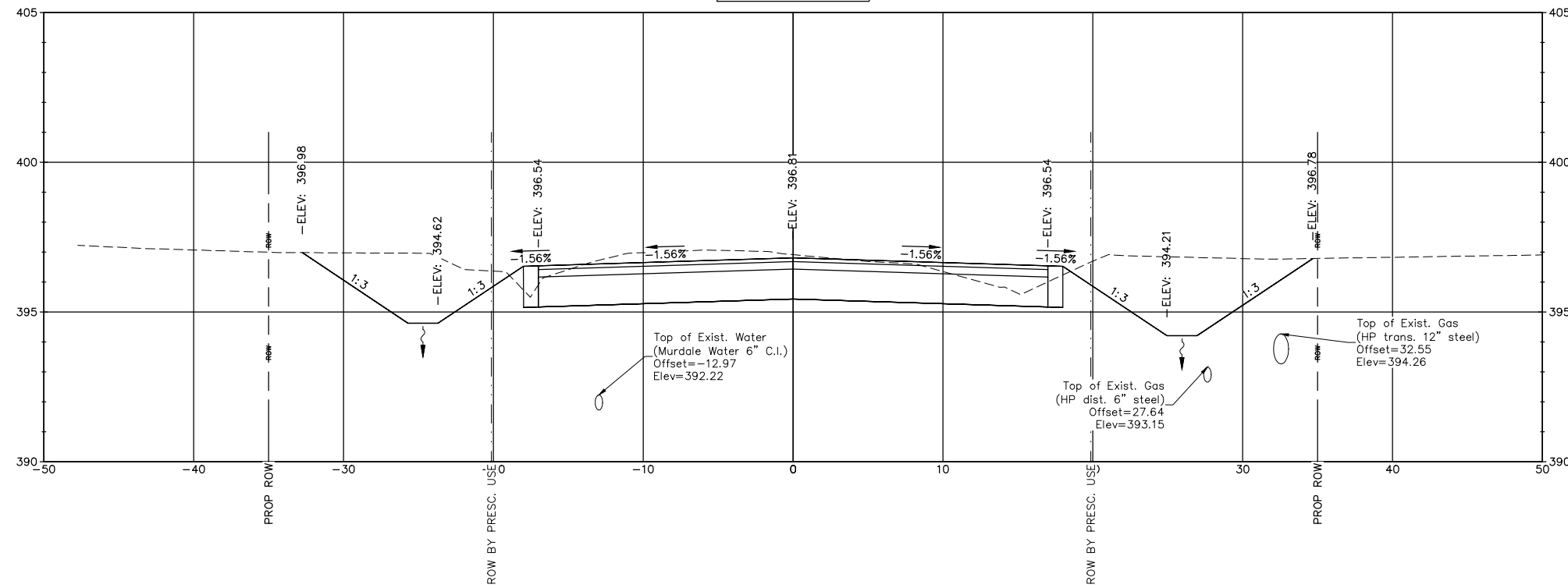
SCALE: 1"=10' H 1"=5' V

SHEET NO. 23 OF 28 SHEETS

STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	57
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

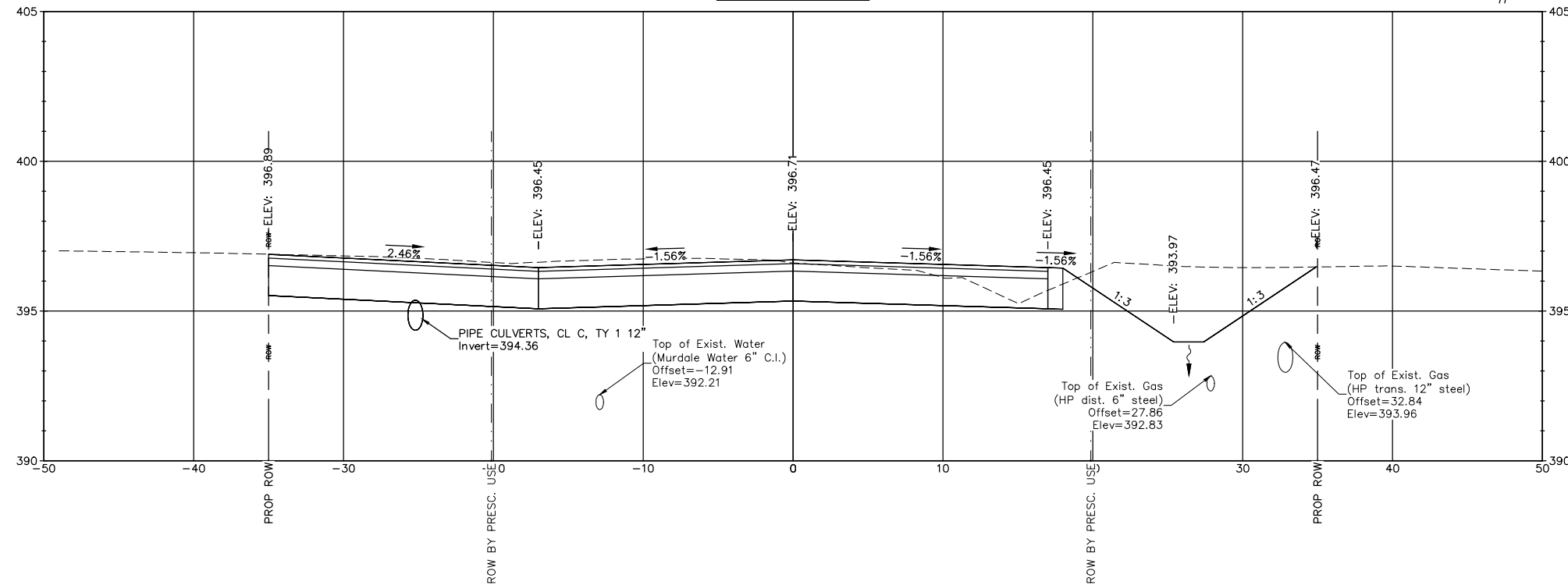
115+50.00



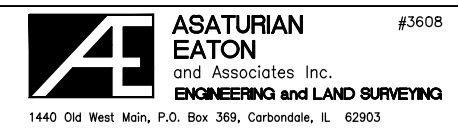
Cut Area (sq ft) = 84.82
 Fill Area (sq ft) = 0.44

115+23.60

ENTRANCE #12



Cut Area (sq ft) = 87.89
 Fill Area (sq ft) = 0.26

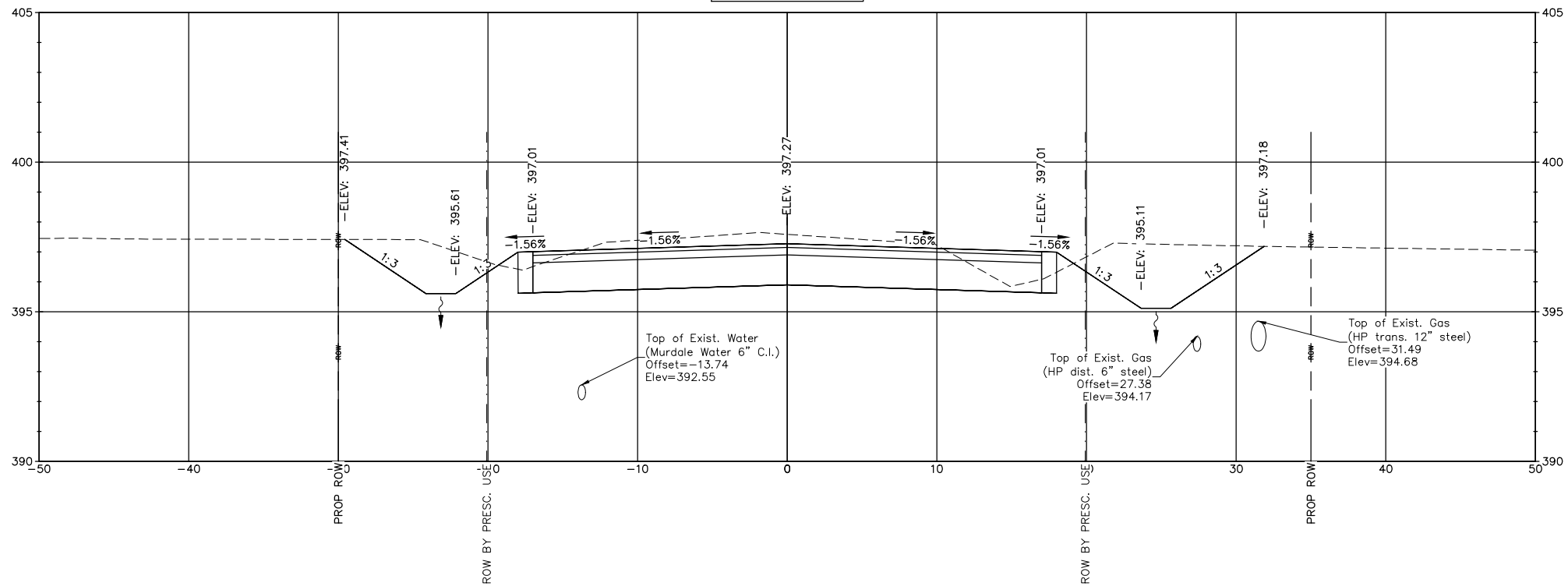


DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

CROSS SECTIONS	
SCALE: 1"=10' H 1"=5' V	SHEET NO. 24 OF 28 SHEETS
STA.	TO STA.

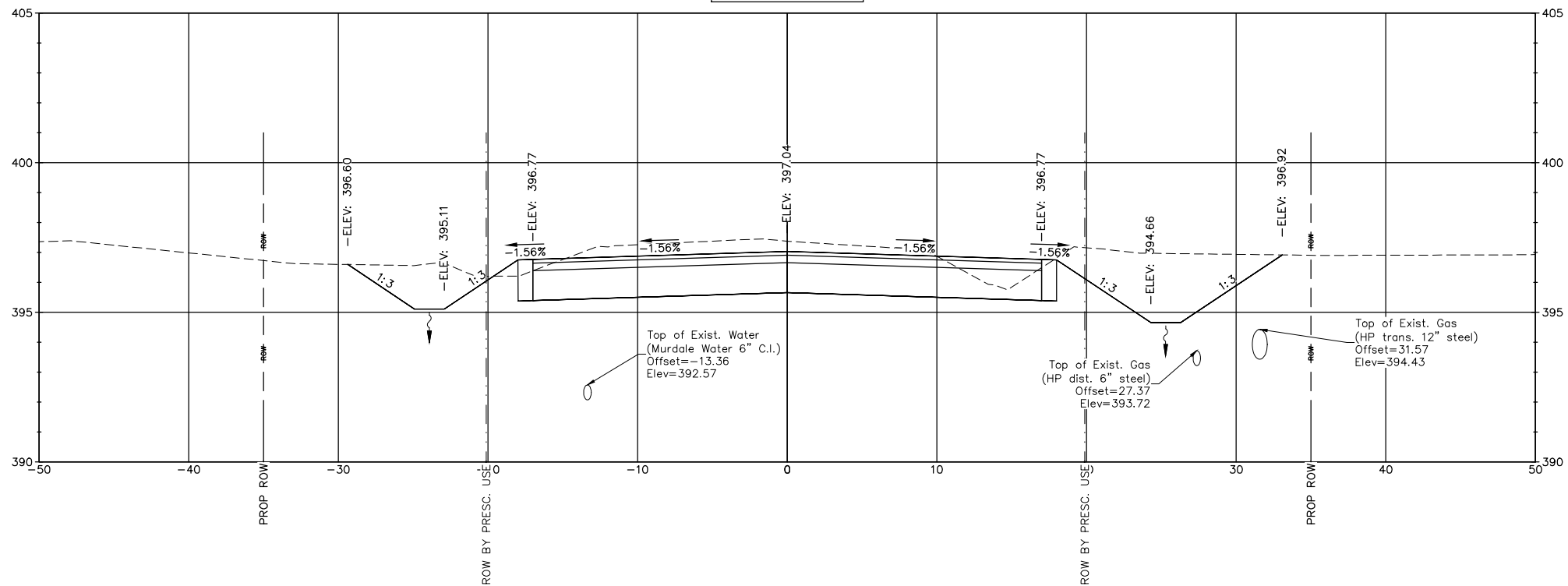
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	58
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

116+50.00



Cut Area (sq ft) = 71.39
Fill Area (sq ft) = 0.76

116+00.00



Cut Area (sq ft) = 78.11
Fill Area (sq ft) = 0.44



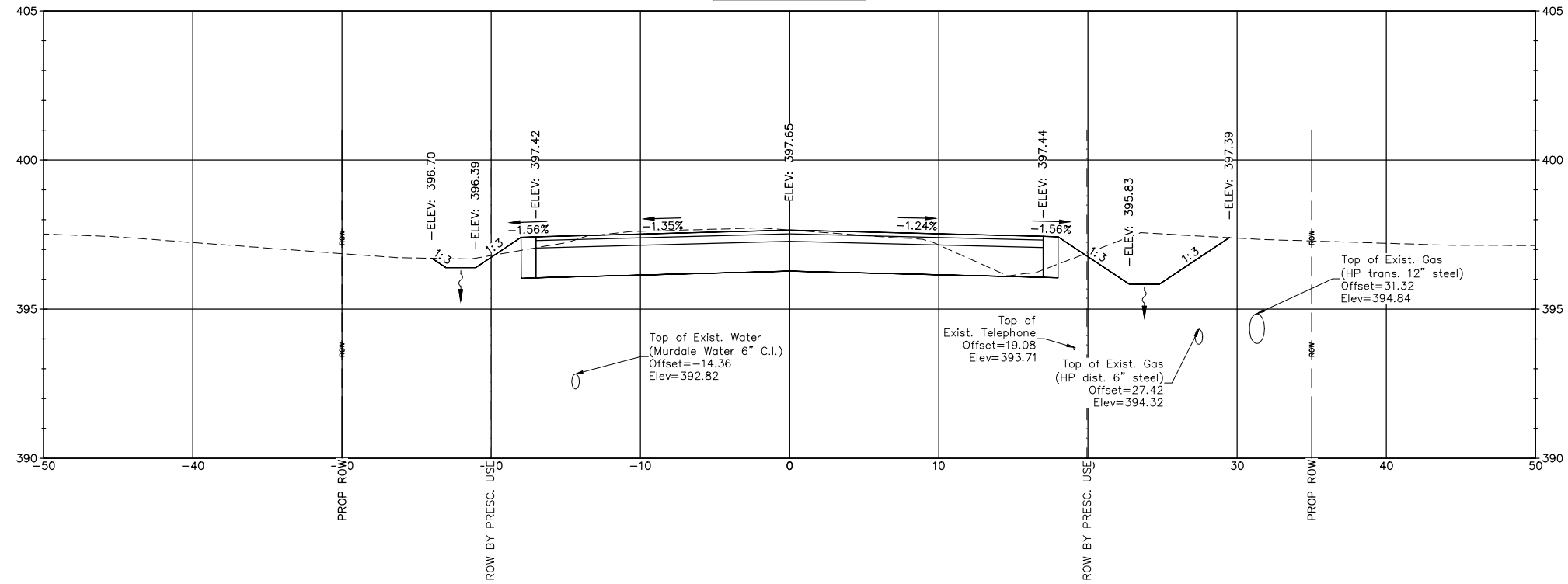
DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

CROSS SECTIONS	
SCALE: 1"=10' H 1"=5' V	SHEET NO. 25 OF 28 SHEETS
STA.	TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	59
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

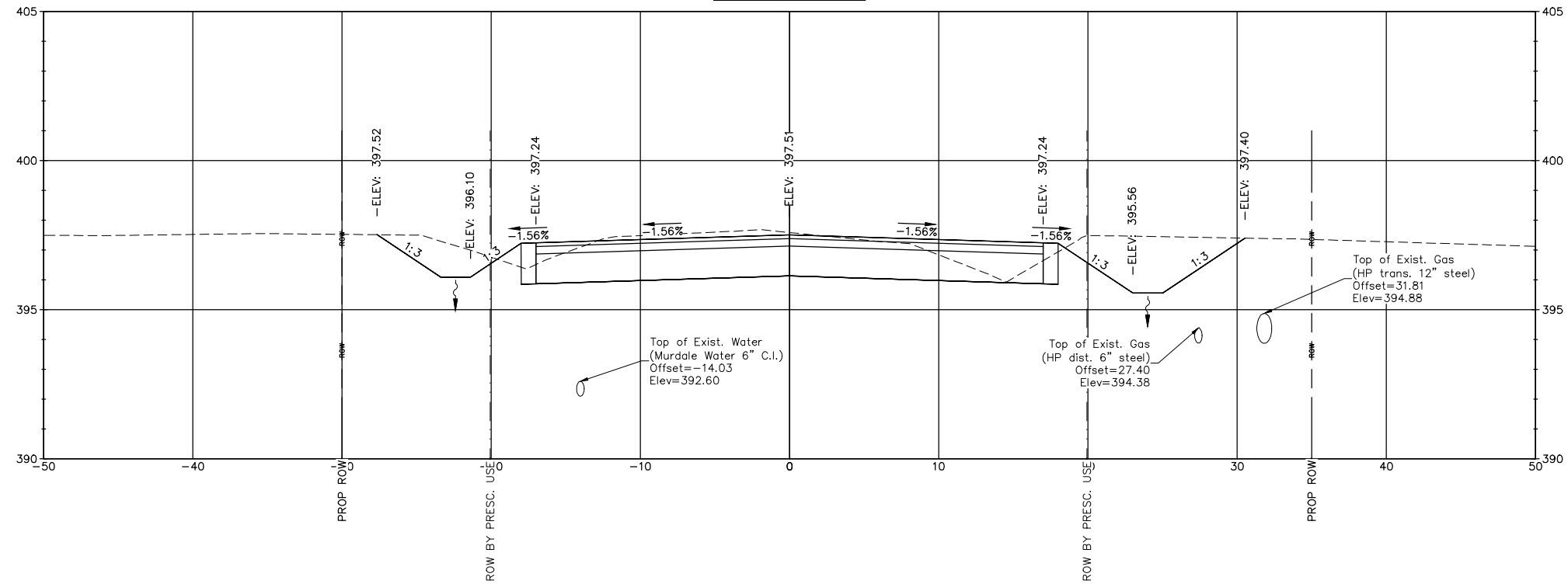
117+29.94

END PROPOSED ROADWAY SECTION



Cut Area (sq ft) = 46.03
 Fill Area (sq ft) = 1.28

117+00.00

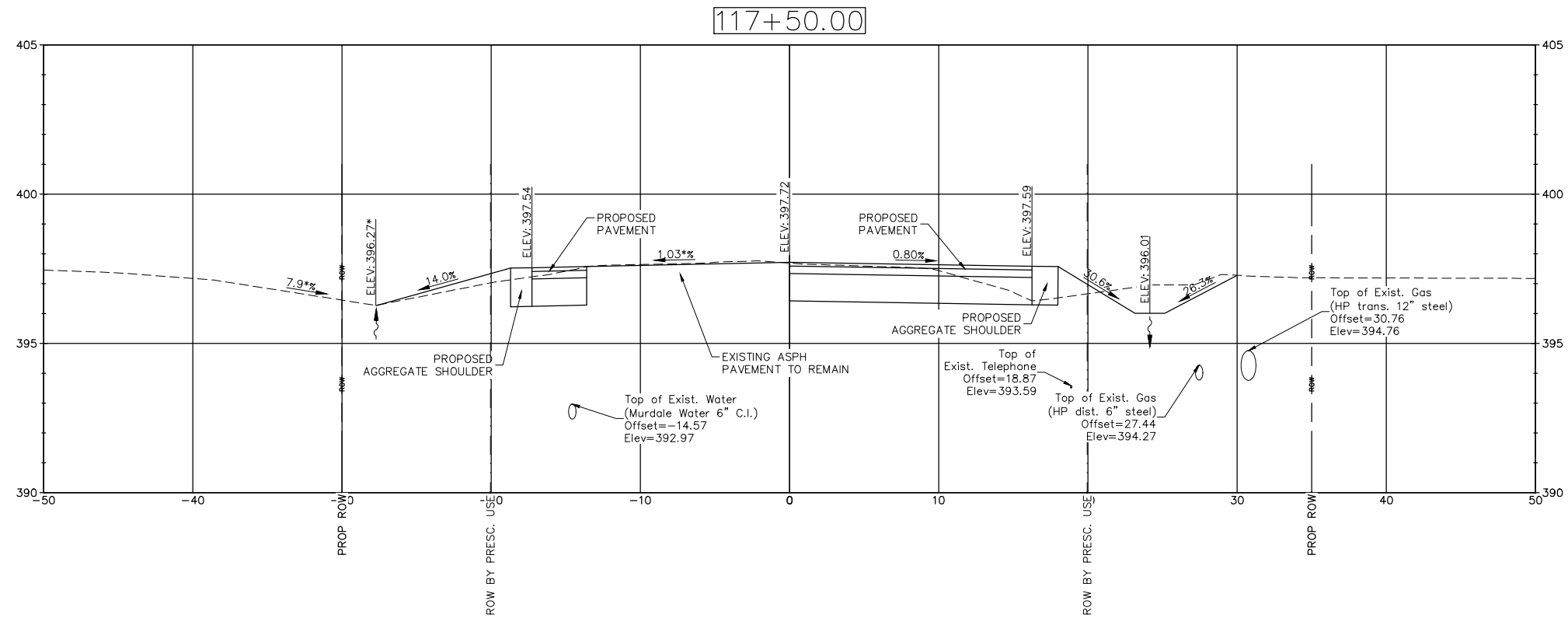
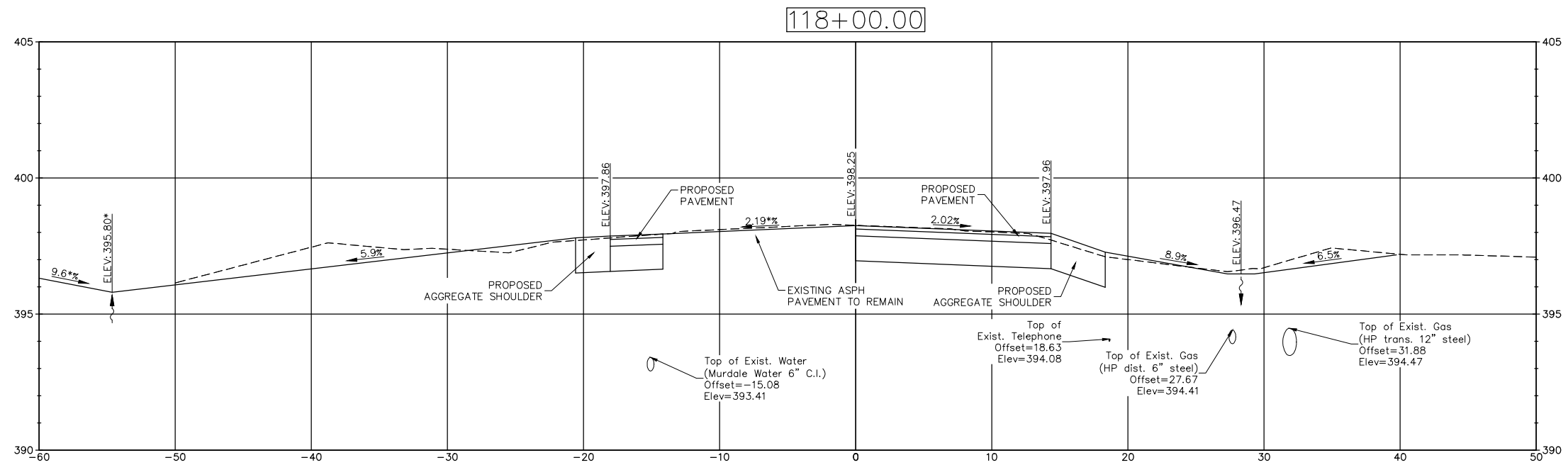


Cut Area (sq ft) = 56.75
 Fill Area (sq ft) = 0.70

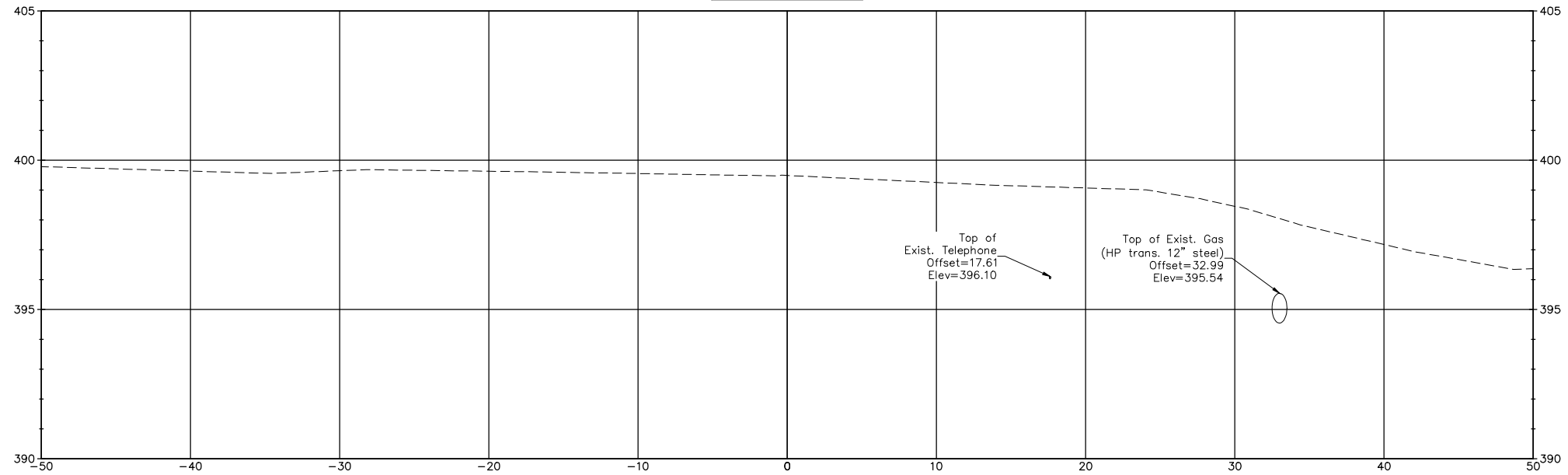


DESIGNED BY: PS	REVISED:
DRAWN BY: AW	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

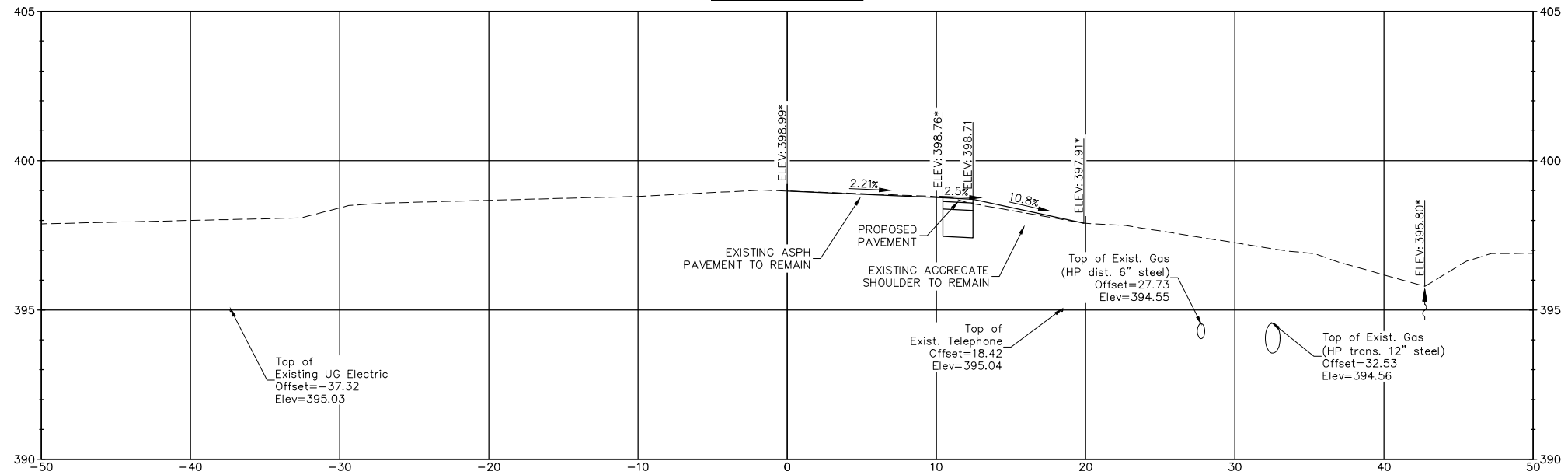
CROSS SECTIONS		ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
		FAU 9715	18-00138-00-FP	JACKSON	65	60
SCALE: 1"=10' H 1"=5' V		SHEET NO. 26 OF 28 SHEETS		STA.	TO STA.	
		CITY OF CARBONDALE		CONTRACT NO. 99689		



119+00.00



118+50.00



CROSS SECTIONS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	63
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

R.O.W. PLAT FOR PROPOSED
NEW ERA ROAD RECONSTRUCTION
CITY OF CARBONDALE

NEW ERA ROAD RECONSTRUCTION (FAU 9715)
GLENN ROAD TO AIRPORT ROAD (FAU 9729 AS RELOCATED)
SECTION 18-00138-00-FP

FEDERAL PROJECT NO. 4WRW(872)
CITY OF CARBONDALE
JACKSON COUNTY
JOB NO. C-99-116-18



LOCATION OF SECTION INDICATED THIS: - - -

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: 3-30-22 DATE

Robert Harris PE. DIRECTOR OF OPERATIONS, CITY OF CARBONDALE

PASS: _____ DATE _____

DISTRICT ENGINEER _____

RELEASED FOR BID
BASED ON LIMITED REVIEW

DATE _____

DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER

INDEX OF SHEETS

- 63 R.O.W PLAT COVER SHEET
- 64 R.O.W PLAT - STA 100+94.81 TO STA 109+20
- 65 R.O.W PLAT - STA 109+20 TO STA 118+64.78

CERTIFICATIONS

SURVEYOR:

STATE OF ILLINOIS) SS
COUNTY OF JACKSON)

I, ROBERT W. EATON, PROFESSIONAL ILLINOIS LAND SURVEYOR NO. 2605 DO HEREBY CERTIFY THAT DURING JANUARY, 2019, AT THE REQUEST OF THE CITY OF CARBONDALE, ILLINOIS, A BOUNDARY SURVEY WAS MADE UNDER MY DIRECT SUPERVISION, OF PART OF SECTIONS 5 AND 6, TOWNSHIP 9 SOUTH, RANGE 1 WEST OF THE THIRD PRINCIPAL MERIDIAN, JACKSON COUNTY, ILLINOIS, AND THAT THIS PLAT CORRECTLY DEPICTS A PART OF THAT SURVEY, INCLUDING CENTERLINES, RIGHT-OF-WAY LINES, STATIONING, QUARTER, QUARTER SECTION LINES AND PROPERTY LINES, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, THAT THE FIELD WORK WAS COMPLETED ON FEBRUARY 29th, 2020.

I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS IS A TRUE AND CORRECT SURVEY AND IS AS SHOWN PLATTED HEREON.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY ILLINOIS LAND SURVEYOR'S SEAL AT CARBONDALE, ILLINOIS ON THIS 1st DAY OF APRIL, 2022

Robert W. Eaton

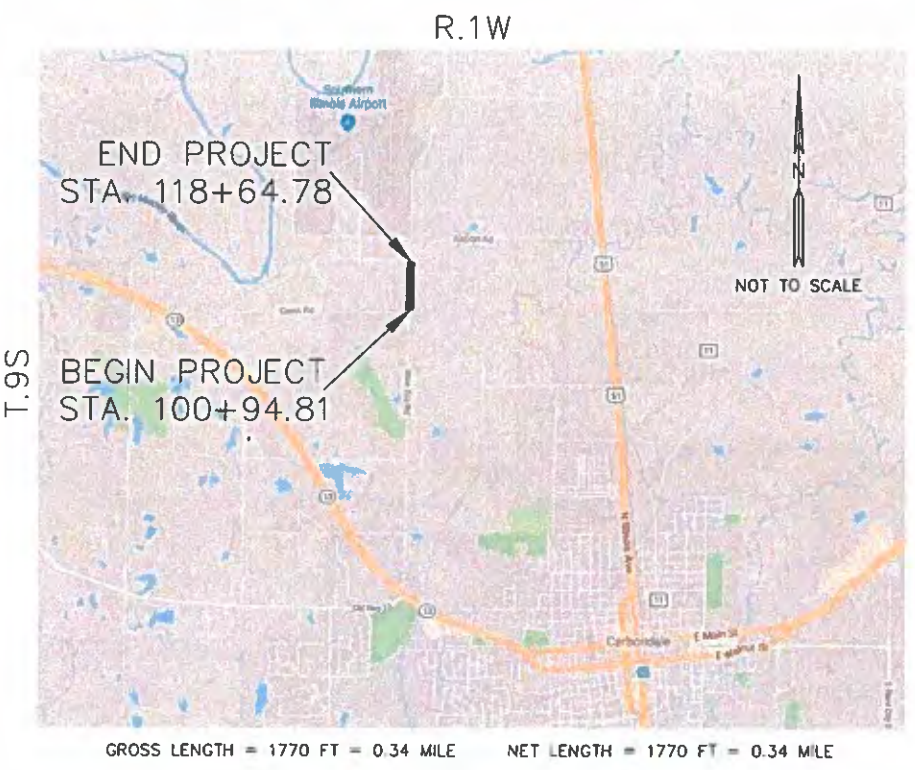
ROBERT W. EATON
PROFESSIONAL ILLINOIS LAND SURVEYOR NO. 2605
(LICENSE EXPIRES 11-30-22)



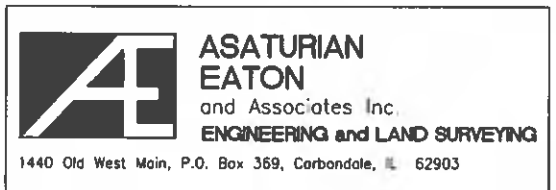
DESIGN ENGINEER:

Praveen Sunny

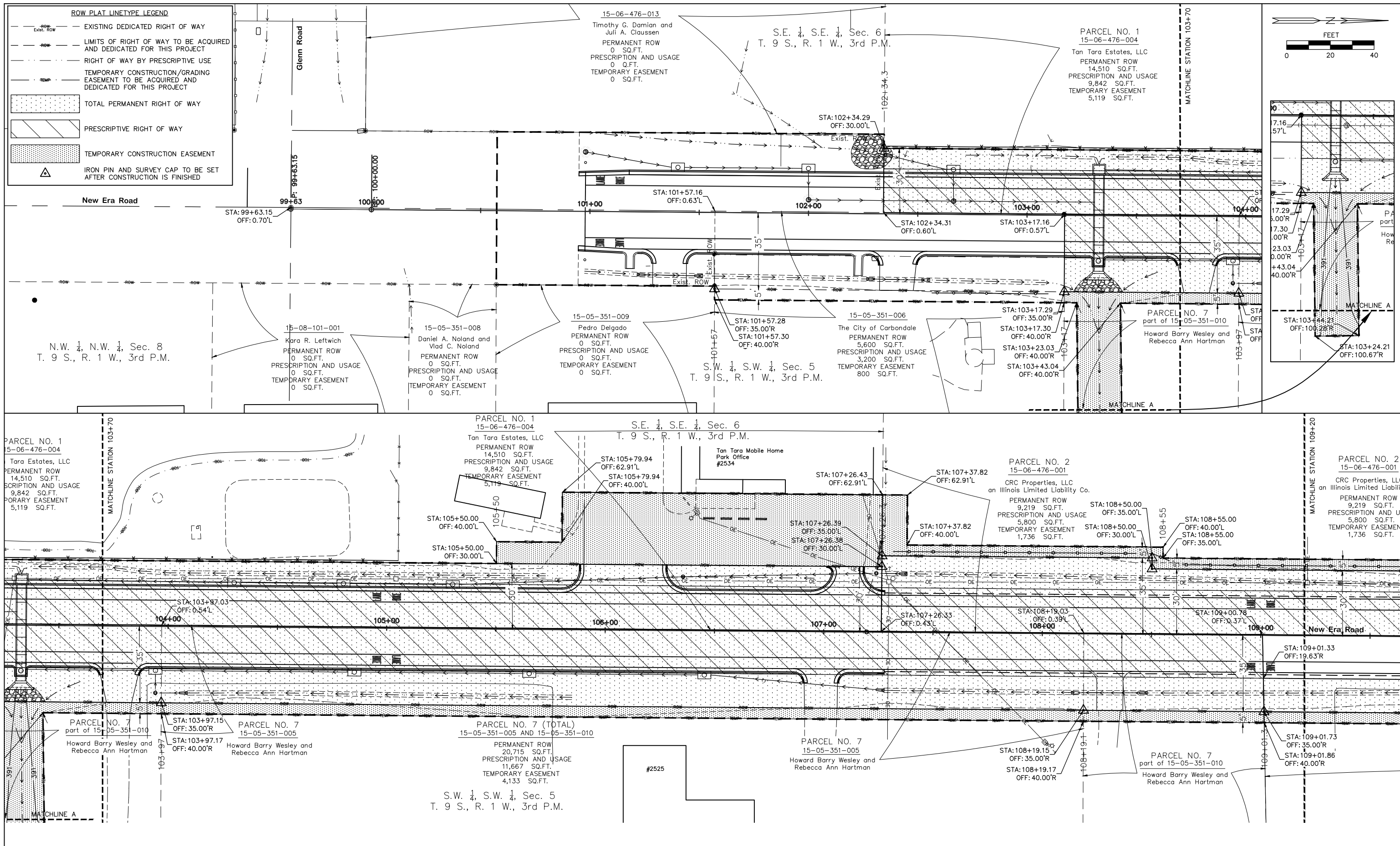
PRAVEEN SUNNY
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS NO. 062-058422
(LICENSE EXPIRES 11-30-23)



GROSS LENGTH = 1770 FT = 0.34 MILE NET LENGTH = 1770 FT = 0.34 MILE

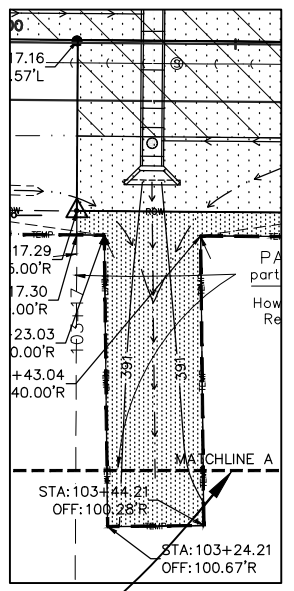


CONTRACT NO. 99689



ROW PLAT LINETYPE LEGEND

--- (dashed line with dots)	EXISTING DEDICATED RIGHT OF WAY
--- (dashed line)	LIMITS OF RIGHT OF WAY TO BE ACQUIRED AND DEDICATED FOR THIS PROJECT
--- (dotted line)	RIGHT OF WAY BY PRESCRIPTIVE USE
--- (dash-dot line)	TEMPORARY CONSTRUCTION/GRADING EASEMENT TO BE ACQUIRED AND DEDICATED FOR THIS PROJECT
[Stippled pattern]	TOTAL PERMANENT RIGHT OF WAY
[Diagonal hatching]	PRESCRIPTIVE RIGHT OF WAY
[Cross-hatching]	TEMPORARY CONSTRUCTION EASEMENT
▲ (triangle)	IRON PIN AND SURVEY CAP TO BE SET AFTER CONSTRUCTION IS FINISHED



CARBONDALE ILLINOIS
Public Works 200 South Illinois Avenue
Carbondale, IL 62901
(618) 457-3270

ASATURIAN EATON #3608
and Associates Inc.
ENGINEERING and LAND SURVEYING
1440 Old West Main, P.O. Box 369, Carbondale, IL 62903

DESIGNED BY: RE	REVISED:
DRAWN BY: RE	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

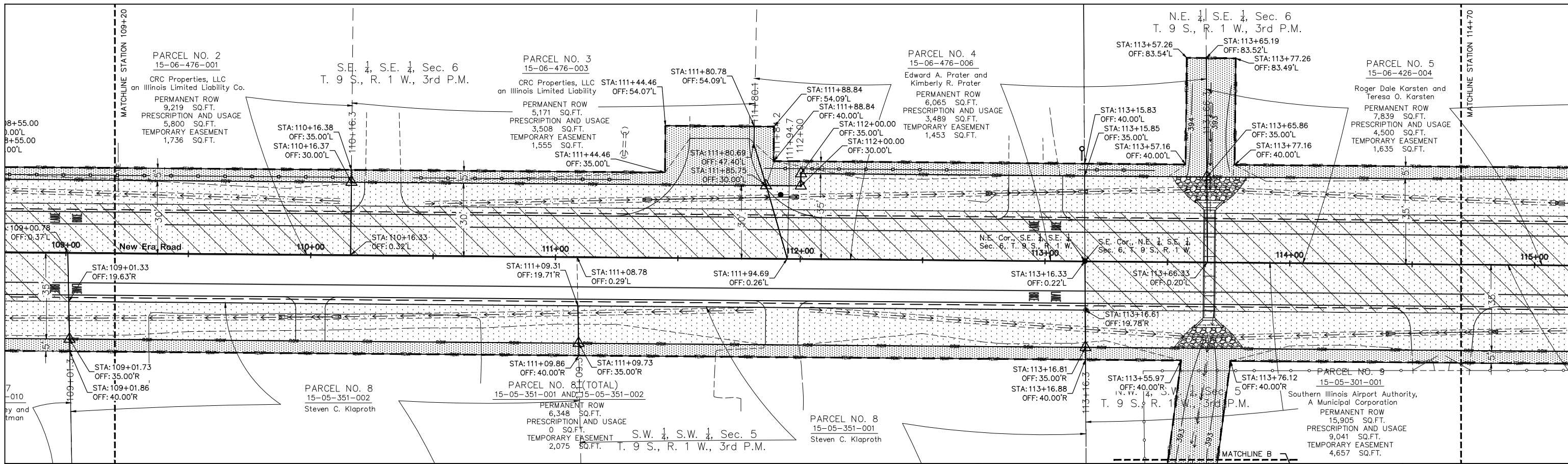
R.O.W. PLAT - STA 100+94.81 TO STA 109+20

SCALE: 1"=40'

SHEET NO. 1 OF 2 SHEETS

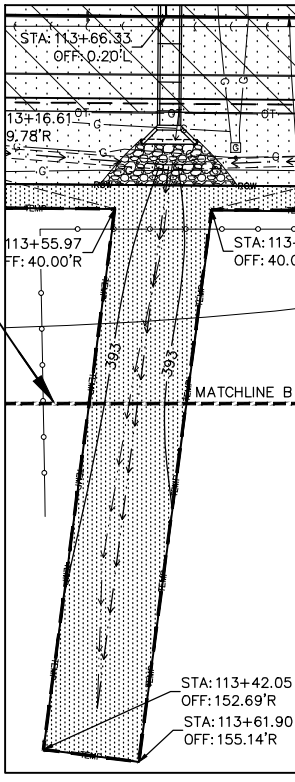
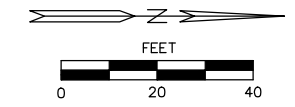
STATION: 100+94.81 TO STATION: 118+64.78

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	64
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		



ROW PLAT LINETYPE LEGEND

- EXISTING DEDICATED RIGHT OF WAY
- LIMITS OF RIGHT OF WAY TO BE ACQUIRED AND DEDICATED FOR THIS PROJECT
- RIGHT OF WAY BY PRESCRIPTIVE USE
- TEMPORARY CONSTRUCTION/GRADING EASEMENT TO BE ACQUIRED AND DEDICATED FOR THIS PROJECT
- TOTAL PERMANENT RIGHT OF WAY
- PRESCRIPTIVE RIGHT OF WAY
- TEMPORARY CONSTRUCTION EASEMENT
- IRON PIN AND SURVEY CAP TO BE SET AFTER CONSTRUCTION IS FINISHED



DESIGNED BY: RE	REVISED:
DRAWN BY: RE	REVISED:
CHECKED BY: PS	REVISED:
DATE: 04-01-22	REVISED:

R.O.W. PLAT - STA 109+20 TO STA 118+64.78

SCALE: 1"=40'

SHEET NO. 2 OF 2 SHEETS

STA. TO STA.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 9715	18-00138-00-FP	JACKSON	65	65
STATION: 100+94.81		TO STATION: 118+64.78		
CITY OF CARBONDALE		CONTRACT NO. 99689		