

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0156	20-00016-00-R5	MCHENRY	87	1
FED. ROAD DIST. NO 1	ILLINOIS	CONTRACT NO. 61J68		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

09-22-2023 LETTING ITEM 007

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 0156 (RIVERSIDE DRIVE)  
VILLAGE LIMITS SOUTH OF RUNNING BROOK  
FARM BLVD TO JOHNSBURG ROAD  
ROADWAY RESURFACING AND CULVERT  
REPLACEMENT  
SECTION NO. 20-00016-00-RS  
PROJECT NO. 6YP7(599)  
VILLAGE OF JOHNSBURG  
MCHENRY COUNTY



**HRGreen.com**  
Illinois Professional Design Firm  
# 184-001322

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED July 14, 2023  
*[Signature]*  
VILLAGE OF JOHNSBURG

PASSED July 20, 2023  
*[Signature]*  
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED ON LIMITED REVIEW July 20, 2023  
*[Signature]*  
REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

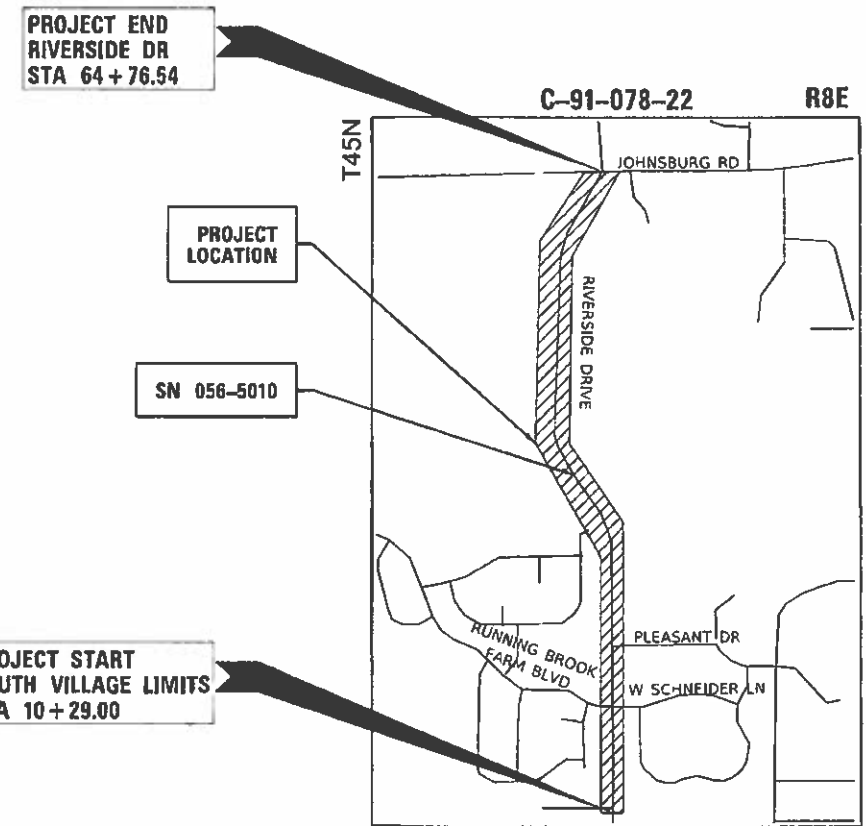
**TRAFFIC DATA**

ADT:  
RIVERSIDE DRIVE: 3,600 (2021)

ROADWAY	SPEED POSTED	DESIGN SPEED
RIVERSIDE DRIVE	45 MPH	45 MPH

**DESIGN DESIGNATION**

RIVERSIDE DRIVE: MAJOR COLLECTOR



PROJECT END  
RIVERSIDE DR  
STA 64+76.54

PROJECT  
LOCATION

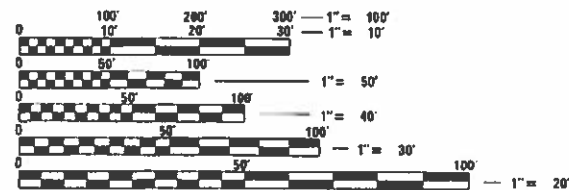
SN 056-5010

PROJECT START  
SOUTH VILLAGE LIMITS  
STA 10+29.00

LOCATION MAP  
N.T.S.

PROJECT LENGTH

NET AND GROSS LENGTH OF PROJECT = 5,448 FT. = 1.03 MILES



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



SEAL  
*[Signature]*  
JEFFREY J. STRZALKA, P.E.  
EXPIRES: 11-30-23

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, SCHAMBERG, IL

CONTRACT 61J68

**INDEX OF SHEETS**

1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, DISTRICT ONE DETAILS & GENERAL NOTES
3	GENERAL NOTES
4 - 10	SUMMARY OF QUANTITIES
11 - 12	TYPICAL SECTIONS
13	ALIGNMENT & BENCHMARKS
14 - 18	REMOVAL PLANS
19 - 28	PATH PLAN AND PROFILES
29	DETOUR PLAN
30 - 34	EROSION CONTROL PLANS
35 - 45	DISTRICT ONE DETAILS
46 - 51	CONSTRUCTION DETAILS
52 - 62	CULVERT PLANS
63 - 87	PATH CROSS SECTIONS

**DISTRICT ONE DETAILS**

STANDARD NO.	LIST OF DESCRIPTION
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BD-34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

**COORDINATION WITH BUSINESSES AND DRIVEWAY CONSTRUCTION PROCEDURES**

- THE CONTRACTOR SHALL PERFORM HIS WORK IN A MANNER CAUSING MINIMAL INCONVENIENCE TO THE RESIDENTS AND MOTORING PUBLIC. ON STREETS WHERE CURB AND GUTTER IS TO BE CONSTRUCTED OR STORM SEWER INSTALLED, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE SIDE OF THE STREET ONLY. ONCE THE CURB AND GUTTER AND/OR STORM SEWER IS COMPLETE, THE CONTRACTOR MAY MOVE TO THE OTHER SIDE OF THE STREET TO START THE CURB AND GUTTER AND STORM SEWER CONSTRUCTION.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY AFFECTED DUE TO CONCRETE CURB AND GUTTER CONSTRUCTION OR STORM SEWER IS TO BE INSTALLED ACROSS A DRIVEWAY. THE CONTRACTOR SHALL CONTACT THE OWNER 48 HOURS PRIOR TO REMOVING THE PAVEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES (KNOCK ON DOORS WHEN A DRIVEWAY IS ABOUT TO BE CLOSED).
- THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE ANY DRIVEWAY ENTRANCE WITHIN THE PROJECT LIMITS UNDER ANY CIRCUMSTANCES. CURB AND GUTTER CONSTRUCTION, PIPE INSTALLATION, DRIVEWAY PAVEMENT CONSTRUCTION, ETC. MUST BE COMPLETED AT NO MORE THAN 50% AT A TIME IN ORDER TO PROVIDE ACCESS INTO THE PROPERTY. UPON CONSTRUCTION OF THE INITIAL 50% OF THE CURB, PIPE, AND OR DRIVEWAY PAVEMENT, THE OTHER 50% OF THE DRIVEWAY CAN COMMENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BARRICADES TO PREVENT TRAFFIC FROM USING THE PORTIONS OF DRIVEWAYS UNDER CONSTRUCTION DURING THIS PERIOD.
- THE CONTRACTOR SHALL FILL HOLES CREATED BY THE REMOVAL OF DRIVEWAY PAVEMENT WHERE NEW GUTTER OR UTILITY HAS BEEN CONSTRUCTED WITH AGGREGATE BASE COURSE (CA-6 CRUSHED) SO THAT BUSINESSES AND RESIDENTS CAN USE THEIR DRIVEWAYS UNTIL THE START OF INSTALLATION OF THE CONCRETE GUTTER AND/OR DRIVEWAY PAVEMENT.
- THE CONTRACTOR'S SUPERINTENDENT AND THE RESIDENT ENGINEER WILL BE REQUIRED TO WORK TOGETHER WITH THE AFFECTED RESIDENTS IN PLANNING THEIR CONSTRUCTION SCHEDULE SO AS TO MINIMIZE THE INCONVENIENCE AND MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE RESIDENT ENGINEER AND/OR THE VILLAGE RESERVE THE RIGHT TO RESTRICT WORK ON A PAVEMENT SEGMENT IF CONSTRUCTION OPERATIONS IN OTHER CONSTRUCTION ZONES ARE UNACCEPTABLE.

**STORM SEWERS, WATER MAINS, AND UTILITIES**

- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL COOPERATE WITH THE VILLAGE OF JOHNSBURG IF ANY UTILITY IMPROVEMENTS ARE REQUIRED BY THE VILLAGE WITHIN THE DURATION OF THE CONTRACT.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE INSTALLATION, ADJUSTMENT OR RECONSTRUCTION.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS AS PART OF THE STRUCTURE INSTALLATION, ADJUSTMENT OR RECONSTRUCTION.
- ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THE CONTRACT FOR CONSTRUCTION. ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, OR INLET SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD "STORM."
- THE INDISCRIMINATE USE OF FIRE HYDRANTS, EXISTING STREAMS, CREEKS, WETLANDS, OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE CONTRACTOR PRIOR TO THE USE OF THE WATER.
- THE CONTRACTOR MUST CONTACT THE VILLAGE OF JOHNSBURG'S WATER OPERATOR TO USE WATER FOR DUST CONTROL, MIXING MORTAR, EQUIPMENT, ETC.
- ALL FRAMES, GRATES, LIDS, AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE VILLAGE OF JOHNSBURG AND BE DELIVERED TO THE PUBLIC WORKS FACILITY , AS APPLICABLE.

**BACKFILL**

- STORM SEWERS AND PIPE CULVERTS SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY.
- TRENCH BACKFILL MATERIAL SHALL CONSIST OF CA-6 CRUSHED STONE OR CRUSHED AGGREGATE.
- TRENCH BACKFILL IS REQUIRED TO FILL AREAS OF STORM SEWER OR PIPE CULVERT REMOVAL WHERE THERE IS NO REPLACEMENT.
- AT STORM SEWER OR PIPE CULVERT CROSSINGS, TRENCH BACKFILL SHALL BE PLACED TO THE TOP OF TRENCH AS A TEMPORARY CONDITION UNTIL STABILIZED BASE COURSE IS CONSTRUCTED. THE MAINTENANCE OF THE TRENCH BACKFILL SURFACE IN THE TEMPORARY CONDITION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

**STATE STANDARDS**

STANDARD NO.	LIST OF DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEM
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING & RESURFACING PROJECTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
602001-02	CATCH BASIN, TYPE A
602306-03	INLET - TYPE B
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604036-03	GRATE TYPE B
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606101-05	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
606201-04	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-12	STEEL PLATE BEAM GUARDRAIL
630116	BACK SIDE PROTECTION OF GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
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 MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK IN SERIES, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNT DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
728001-04	TELESCOPING STEEL SIGN SUPPORT
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2022. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- ALL ELEVATIONS SHOWN ON THE PLANS ARE ON THE NAVD88 DATUM.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS AND SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE IN THE PORTION REMAINING.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN CONSENT FROM THE VILLAGE OF JOHNSBURG.
- CONSTRUCTION WORK MAY BE PERFORMED MONDAY THRU FRIDAY DURING THE HOURS OF 7:00 A.M. TO 5 :00 P.M. AND ON SATURDAYS FROM 8:00 A.M. TO 5:00 P.M. NO WORK MAY BE PERFORMED PRIOR OR BEYOND THIS PERIOD WITHOUT PRIOR WRITTEN APPROVAL FROM THE VILLAGE. NO COMPENSATION WILL BE PAID FOR ANY INCONVENIENCE, DELAY, OR LOSS EXPERIENCE BY THE CONTRACTOR BECAUSE OF ADJUSTMENTS TO THEIR NORMAL SCHEDULE.
- WHEN CONDITIONS ARE ENCOUNTERED WHERE THE EXCAVATION FOR STRUCTURE OR PIPE CANNOT BE KEPT FREE OF WATER FOR PROSECUTING THE WORK THE CONTRACTOR SHALL PUMP AND/OR DIVERT WATER TO ACCOMMODATE CONSTRUCTION ACTIVITIES.
- STATE OF ILLINOIS PUBLIC ACT 094-0042 (CONSTRUCTION SITE TEMPORARY RESTROOM FACILITY ACT) STIPULATES THAT THE CONTRACTOR MUST PROVIDE AND MAINTAIN, FOR THEIR WORK FORCE, TEMPORARY RESTROOM FACILITIES. PLEASE REVIEW THIS ACT OR THE MOST RECENT UPDATE TO THE LEGISLATION IN ORDER TO HAVE A CLEAR UNDERSTANDING OF THE PROVISIONS OF THE ACT SUCH AS THE QUANTITY, TYPE, AND APPURTENANCES NECESSARY FOR THE PROJECT. PER THE LANGUAGE OF THE ACT THE VILLAGE HAS THE AUTHORITY TO PENALIZE THE CONTRACTOR IF THE PROVISIONS OF THE ACT ARE NOT FOLLOWED.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STATE STANDARDS & GENERAL NOTES  
RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	2
			CONTRACT NO. 61J68	
		ILLINOIS	FED. AID PROJECT	

HRG PROJECT NO.: 21700  
HRG PROJ. CONTACT:  
FILE NAME: 21700-S11-gem-01.dgn  
PEN TABLE: 10/10/2023



USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - JJS	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

**GENERAL NOTES CONTINUED...**

- ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE MINIMUM GUTTER FLAG DEPTH OF THE NEW GUTTER WILL BE TEN INCHES (10") REGARDLESS OF THE SIZE AND TYPE OF THE EXISTING CURB AND GUTTER.
- CONCRETE CURB AND GUTTER SHALL BE DEPRESSED AT EACH DRIVEWAY ENTRANCE. THE V-SHAPE OF THE GUTTER WILL BE MAINTAINED THROUGH THE DRIVEWAY, BUT THE BACK OF GUTTER SHALL BE LOWERED TO MATCH THE GUTTER FLAG ELEVATION.
- ALL REINFORCING BARS SHALL BE EPOXY COATED.
- WHERE NEW CURB AND GUTTER MEETS EXISTING CURB AND GUTTER TO REMAIN, THE GUTTERS SHALL BE CONNECTED WITH TWO 5/8" DIAMETER REINFORCING BARS, TWELVE INCHES (12") LONG. HOLES 5/8" IN DIAMETER SHALL BE DRILLED SIX INCHES (6") INTO THE EXISTING CONCRETE CURB AND GUTTER PRIOR TO DRIVING REINFORCING BARS INTO PLACE.
- CONSTRUCTION JOINTS SHALL BE SAWCUT EVERY FIFTEEN FEET (15') MAXIMUM, TO A DEPTH OF A HALF INCH.
- TWO (2) #5 REINFORCEMENT BARS SHALL BE PROVIDED IN THE CONCRETE GUTTER CENTERED ABOVE UTILITY TRENCHES. CONSTRUCTION JOINTS WITH DOWEL BARS SHALL BE PROVIDED AT THE END OF A DAYS POUR. EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED SIXTY FEET (60'), AND AT POINTS OF TANGENCY TO RADII, OR AS DETERMINED BY THE ENGINEER AND SHALL CONSIST OF A MINIMUM OF ONE INCH (1") THICK PREFORMED EXPANSION JOINT FILLER CONFORMING TO THE CROSS-SECTION OF THE CURB AND GUTTER AND SHALL BE PROVIDED WITH TWO (2) NO. 6 (#6) BY EIGHTEEN INCH (18") EPOXY COATED DOWEL BARS CONFORMING TO ARTICLE 1006.11(B) OF THE STANDARD SPECIFICATIONS. THE DOWEL BARS SHALL BE FITTED WITH A CAP HAVING A PINCHED STOP THAT WILL PROVIDE A MINIMUM OF ONE INCH (1") OF EXPANSION.
- VISUAL INSPECTION OF STRING LINE OR FORMS SHALL BE CONDUCTED PRIOR TO THE INSTALLATION OF ANY CONCRETE UPON TWENTY-FOUR (24) HOURS NOTICE FROM THE CONTRACTOR. THE CONTRACTOR WILL NOT BE PERMITTED TO COVER THE LAYER BEING REVIEWED UNTIL WRITTEN NOTICE HAS BEEN RECEIVED FROM THE ENGINEER. SEGMENTS OF CURB CONSTRUCTION MAY BE SEQUENCED APPROPRIATELY TO PERMIT CONTINUOUS CONSTRUCTION OPERATIONS.

**PAVING**

- LONGITUDINAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED.
- TRANSVERSE CONSTRUCTION JOINTS WILL BE ALLOWED DURING PAVING PROVIDED THE CONTRACTOR COMPLETE A SAWCUT AT LEAST SIX INCHES INTO THE ADJACENT MAT AT THE START OF PAVING THE FOLLOWING DAY.
- CONSTRUCTION JOINTS THAT SIT OVERNIGHT WILL REQUIRE CRACK ROUTING AND SEALING UPON COMPLETION OF SURFACE COURSE CONSTRUCTION. JOINT SEALANT SHALL MEET THE REQUIREMENTS OF ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.

**SIGNING**

- SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
- ALL SIGNS TO BE REMOVED ALONG THE PROJECT SHALL REMAIN THE PROPERTY OF THE VILLAGE OF JOHNSBURG AND SHALL BE RETURNED TO THE VILLAGE UPON REMOVAL.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS.

**SEDIMENTATION AND EROSION CONTROL**

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
- SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR. DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.
- NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.
- OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.
- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS INSTANCES WHEN THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE AND IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.
- DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKING IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR EQUIVALENT CONTROL MEASURE.

- PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.
- THE DRAINAGE SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWER. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE Routed THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES). THE ENGINEER AND THE WILL COUNTY SOIL AND WATER CONSERVATION DISTRICT SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.
- EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.
- ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OR CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.
- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
- DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM.
- ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY WITHIN THE EXISTING ROW AND/OR EASEMENT.
- DRAIN TILES WITHIN THE DISTURBED AREA OF THE DEVELOPMENT SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT OR INTERCEPTED AND CONNECTED TO THE DRAINAGE SYSTEM FOR THE DEVELOPMENT. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.

**LANDSCAPING**

- TREES TO BE PROTECTED DURING CONSTRUCTION WILL BE IDENTIFIED BY THE ENGINEER AND RECEIVE PROTECTION IN ACCORDANCE WITH THE DETAILS PROVIDED IN THE PLANS.
- THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLANT MATERIAL WITH THE INSTALLATION OF OTHER IMPROVEMENTS SUCH AS HARDSCAPE ELEMENTS AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT DUE TO THE PROXIMITY TO THE EXISTING WETLANDS. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).

**CULVERT CONSTRUCTION**

- THE CONTRACTOR SHOULD CONSIDER OPTIMUM CONDITIONS FOR THE CULVERT REPLACEMENT WORK AT DUTCH CREEK MAY BE DURING THE WINTER MONTHS, THE UPPER FOX RIVER IS DRAWN DOWN APPROXIMATELY TWO FEET (2') ANNUALLY FROM BETWEEN NOVEMBER AND APRIL.
- ADDITIONALLY FROZEN CONDITIONS MAY PROVIDE THE CONTRACTOR AN IMPROVED WORK PLATFORM. PLEASE CONSULT THE GEOTECHNICAL REPORT FOR SOIL TYPES.

**COMMITMENTS**

- THE NEW CULVERT SHOULD BE CONSTRUCTED FROM THE ROADWAY PAVEMENT. CONTRACTOR SHALL NOT DISTURB THE CREEK OUTSIDE OF THE RIVERSIDE DRIVE RIGHT-OF-WAY.
- TREE REMOVAL WILL BE RESTRICTED BETWEEN APRIL 1 AND SEPTEMBER 30.
- ONSITE PERSONNEL SHALL BE PROVIDED WITH EDUCATIONAL FLIERS ABOUT BLANDINGS TURTLES AND INFORMED OF THEIR POTENTIAL OCCURRENCE IN THE AREA.
- EXCAVATIONS AND TRENCHES MUST BE COVERED AT THE END OF EACH WORKDAY AND INSPECTED AT THE BEGINNING OF EACH WORKDAY TO ENSURE THAT NO TURTLES OR OTHER NATIVE WILDLIFE HAVE BECOME TRAPPED.
- NO EQUIPMENT SHALL BE STORED OR FUELED IN THE VICINITY OF DUTCH CREEK.
- IN BLANDINGS TURTLES ARE ENCOUNTERED, WORK SHOULD CEASE IMMEDIATELY TO ALLOW THE TURTLE TO MOVE OUT OF THE WAY AND THE DEPARTMENT SHOULD BE CONTACTED (BRAD SEMEL, NATURAL HERITAGE DIVISION, 815-675-2386 EXT. 216).

**EARTHWORK SUMMARY**

ITEM NO.	CODE	DESCRIPTION	CROSS SECTION BASED	
			RIVERSIDE DR PATH	TOTAL
1	20200100	EARTH EXCAVATION	3,408.5	3,408.5
2	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	1,996.8	1,996.8
3	20400800	FURNISHED EXCAVATION	0.0	0.0
4	30300001	AGGREGATE SUBGRADE IMPROVEMENT	0.0	0.0

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-571-gem-01.dgn  
 PEN TABLE: 10/10/2023



USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 2,0000 ' / in.	CHECKED - JJS	REVISED -
PLOT DATE = 8/15/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**  
**RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	3
			CONTRACT NO.	61J68
		ILLINOIS	FED. AID PROJECT	

	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU FEDERAL 80% 0005
+	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,230	1,230
+	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	737	737
+	20101100	TREE TRUNK PROTECTION	EACH	15	15
+	20101200	TREE ROOT PRUNING	EACH	15	15
	20200100	EARTH EXCAVATION	CU YD	3,409	3,409
	20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	9	9
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,997	1,997
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	74	74
	20800150	TRENCH BACKFILL	CU YD	675	675
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	13,315	13,315
+	25000210	SEEDING, CLASS 2A	ACRE	2.50	2.50
+	25000314	SEEDING, CLASS 4B	ACRE	0.50	0.50
+	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	252	252
+	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	252	252

- CONSTRUCTION TYPE CODE 0042
- + SPECIALTY ITEM

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE: 20200100-00-RS-0000.dgn  
 PLOT: 20200100-00-RS-0000.dwg  
 PEN: TABLE, plotTable.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 2.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 1 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	McHENRY	87	4
			CONTRACT NO. 61J68	
[ ILLINOIS ] FED. AID PROJECT				

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU FEDERAL 80% 0005
28000305	TEMPORARY DITCH CHECKS	FOOT	100.0	100.0
28000400	PERIMETER EROSION BARRIER	FOOT	4,360.0	4,360.0
28000510	INLET FILTERS	EACH	16	16
28100107	STONE RIPRAP, CLASS A4	SQ YD	44	44
28200200	FILTER FABRIC	SQ YD	45	45
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	13,094	13,094
40600370	LONGITUDINAL JOINT SEALANT	FOOT	7,824.0	7,824.0
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	158	158
40603080	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50	TON	40	40
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, 1L-4.75, N50	TON	1,185	1,185
40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	2,415	2,415
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	69	69
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	19,980	19,980

- CONSTRUCTION TYPE CODE 0042
- + SPECIALTY ITEM

HRG PROJECT NO. 21/700  
 HRG PROJ CONTACT:  
 FILE: 2021/07/00-071-sum01.dgn  
 PLOT DATE: 7/18/2023 10:41:17 AM  
 PEN TABLE: p10.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 2,000 / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	5
			CONTRACT NO. 61J68	
[ ILLINOIS ] FED. AID PROJECT				

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU FEDERAL 80% 0005
44000400	GUTTER REMOVAL	FOOT	204.0	204.0
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	335	335
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	335	335
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	335	335
48101200	AGGREGATE SHOULDERS, TYPE B	TON	420	420
48203029	HOT-MIX ASPHALT SHOULDERS, 8 INCH	SQ YD	490	490
50105220	PIPE CULVERT REMOVAL	FOOT	328.0	328.0
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	189	189
50800105	REINFORCEMENT BARS	POUND	39,000	39,000
+ 50901720	BICYCLE RAILING	FOOT	31.0	31.0
51500100	NAME PLATES	EACH	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	210	210
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	17.0	17.0
542A8215	PIPE CULVERTS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	FOOT	37.0	37.0

- CONSTRUCTION TYPE CODE 0042
- + SPECIALTY ITEM

HRG PROJECT NO. 21700  
 HRG PROJ CONTACT:  
 FILE NAME: 21700-01-01-01-01-01-01.dgn  
 PLOT DATE: 7/18/2023 10:41:15 AM  
 PEN TABLE: p10.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 2.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 3 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	McHENRY	87	6
			CONTRACT NO. 61J68	
[ ILLINOIS ] FED. AID PROJECT				

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU FEDERAL 80% 0005
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4	4
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	2	2
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	209.0	209.0
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	844.0	844.0
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	255.0	255.0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	216	216
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	155	155
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	6	6
60602500	CONCRETE GUTTER, TYPE A	FOOT	105.0	105.0
+ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	560.0	560.0
+ 63000035	BACK SIDE PROTECTION OF GUARDRAIL	FOOT	365.0	365.0
+ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4

- CONSTRUCTION TYPE CODE 0042
- + SPECIALTY ITEM

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-01-Summary.dgn  
 PLOT DATE: 7/18/2023 10:41:14 AM  
 PEN TABLE: p10.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 2.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 4 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	7
			CONTRACT NO. 61J68	
[ ILLINOIS ] FED. AID PROJECT				

	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU 80% FEDERAL 0005
	63200310	GUARDRAIL REMOVAL	FOOT	410.0	410.0
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	2,760.0	2,760.0
	67100100	MOBILIZATION	L SUM	1	1
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	5,931.0	5,931.0
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,037.0	3,037.0
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2
+	72501000	TERMINAL MARKER-DIRECT APPLIED	EACH	4	4
+	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	146.0	146.0
+	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	22,984.0	22,984.0
+	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	582.0	582.0
+	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	478.0	478.0
+	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	26.0	26.0
+	78011000	GROOVING FOR RECESSED PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	146.0	146.0
+	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	22,984.0	22,984.0

- CONSTRUCTION TYPE CODE 0042
- + SPECIALTY ITEM

HRG PROJECT NO. 21700  
 HRG PROJ CONTACT:  
 FILE NAME: 21700-01-01-01-01-01-01.dgn  
 PLOT DATE: 7/18/2023  
 PEN TABLE: p10.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 2,000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 5 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	McHENRY	87	8
			CONTRACT NO. 61J68	

[ ILLINOIS ] FED. AID PROJECT



	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU FEDERAL 80% 0005
+	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	582.0	582.0
+	78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	478.0	478.0
+	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	26.0	26.0
+	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10
	X0326806	WASHOUT BASIN	L SUM	1	1
	X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	216	216
	X1200274	TEMPORARY BYPASS PUMPING SYSTEM	L SUM	1	1
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100.0	100.0
+	X2200020	FENCE REMOVAL AND REINSTALLATION	FOOT	317.0	317.0
+	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	13,315	13,315
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	9	9
	X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	81	81
	X4420210	TEMPORARY PATCHING	SQ YD	135	135
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1

• CONSTRUCTION TYPE CODE 0042

+ SPECIALTY ITEM

HRG PROJECT NO. 21700  
 HRG PROJ CONTACT:  
 FILE NAME: 21700-01-01-01-01-01.dgn  
 PLOT DATE: 7/18/2023  
 PEN TABLE: p10.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 2,000' / 1" in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 6 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	9
			CONTRACT NO. 61J68	
[ ILLINOIS ] FED. AID PROJECT				

	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	STU FEDERAL 80% 0005
+	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	270	270
	XX008916	CONTROLLED STIFFNESS COLUMNS	L SUM	1	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
•	Z0076600	TRAINEES	HOUR	500	500
•	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500

- CONSTRUCTION TYPE CODE 0042
- + SPECIALTY ITEM

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE: 20-00016-00-RS-01-01.dgn  
 PLOT: 20-00016-00-RS-01-01.dwg  
 PEN: TABLE, plotTable.tbl



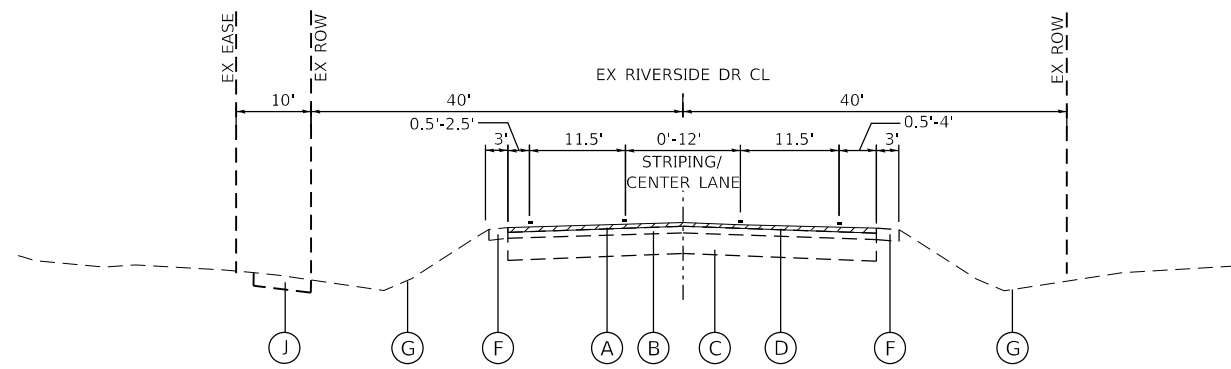
USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 2.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
 RIVERSIDE DRIVE**

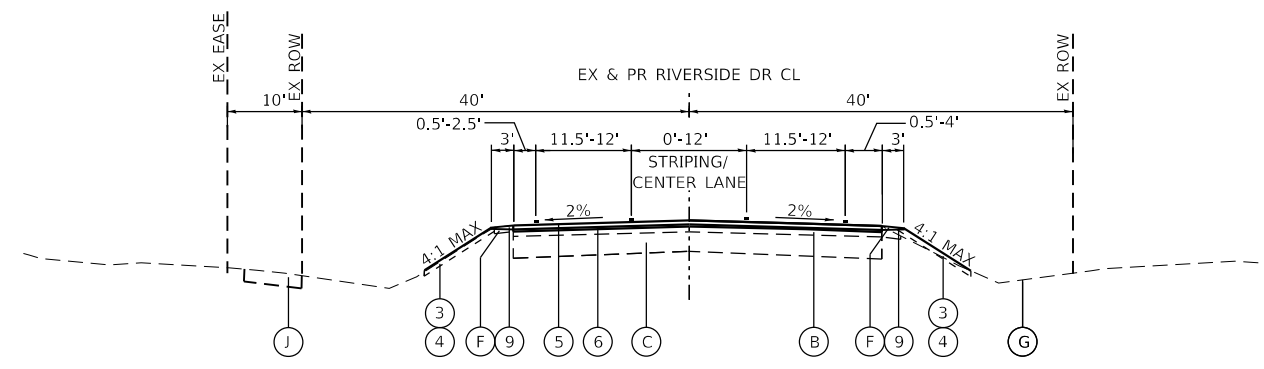
SCALE: N.T.S. SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	McHENRY	87	10
CONTRACT NO. 61J68			[ ILLINOIS ] FED. AID PROJECT	



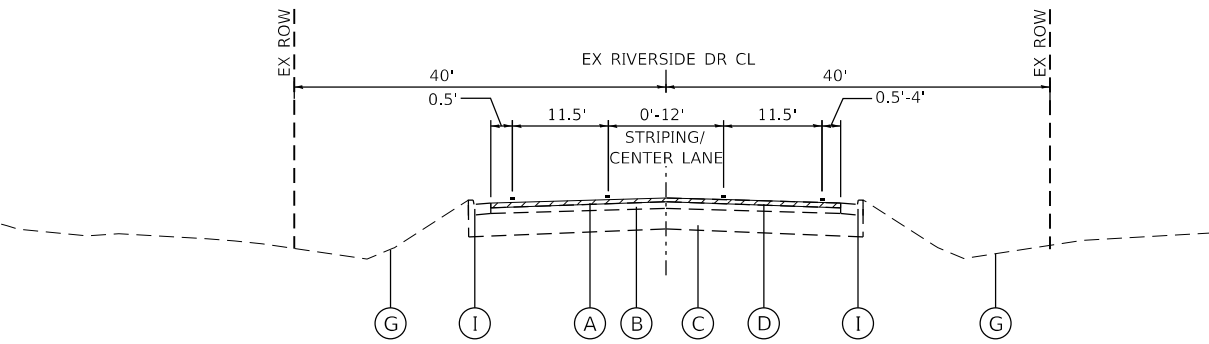
**EXISTING TYPICAL SECTION RIVERSIDE DRIVE**

STA. 10+29 TO STA. 18+00  
 STA. 19+92 TO STA. 26+86  
 STA. 46+00 TO STA. 52+26  
 STA. 53+17 TO STA. 59+51



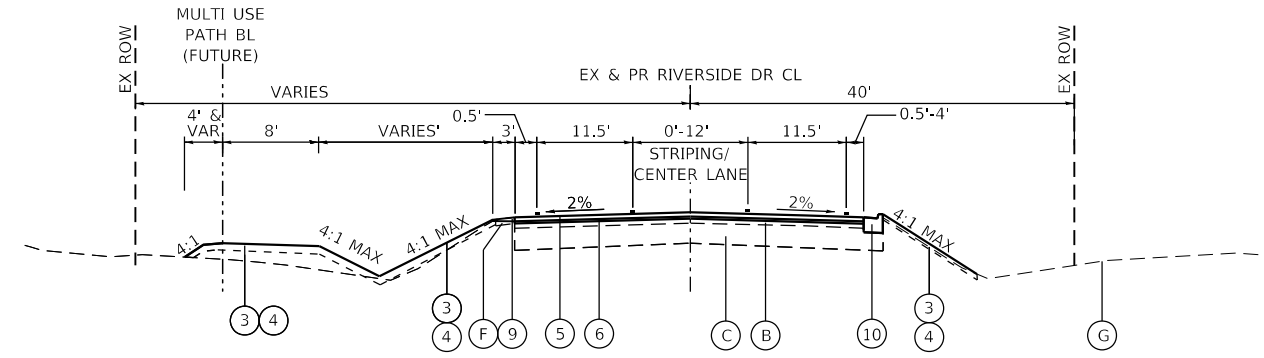
**PROPOSED TYPICAL SECTION RIVERSIDE DRIVE**

STA. 10+29 TO STA. 18+00  
 STA. 19+92 TO STA. 26+86  
 STA. 46+00 TO STA. 52+26



**EXISTING TYPICAL SECTION RIVERSIDE DRIVE**

STA. 18+00 TO STA. 19+92  
 STA. 26+86 TO STA. 30+55  
 STA. 52+26 TO STA. 59+51  
 (GUTTER ON THE SB LN)



**PROPOSED TYPICAL SECTION RIVERSIDE DRIVE**

STA. 18+00 TO STA. 19+92  
 STA. 52+26 TO STA. 59+51  
 (GUTTER ON THE SB LN)  
 STA. 26+86 TO STA. 30+55  
 STA. 59+51 TO STA. 64+76  
 (GUTTER ON THE SB LN)

**EXISTING LEGEND**

- (A) HMA SURFACE COURSE; 1½" - 3¾"
- (B) HMA BINDER COURSE; 1¼" - 3¾"
- (C) AGGREGATE BASE COURSE; +/- 12"
- (D) HOT-MIX ASPHAL SURFACE REMOVAL, 2¾"
- (E) OMITTED
- (F) AGGREGATE SHOULDER
- (G) EXISTING GROUND
- (H) COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12
- (I) CONCRETE GUTTER TYPE A (SPOT REMOVAL AND REPLACEMENT AS DIRECTED BY THE ENGINEER)
- (J) PCC SIDEWALK

**PROPOSED LEGEND**

- (1) OMITTED
- (2) OMITTED
- (3) SEEDING CLASS 2A / EROSION CONTROL BLANKET (SPECIAL)
- (4) TOPSOIL FURNISH & PLACE, 4"
- (5) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- (6) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 1"
- (7) SHOULDER RUMBLE STRIPS, 8"
- (8) OMITTED
- (9) AGGREGATE SHOULDERS, TYPE B (9% MAX SLOPE) (CA-6 CRUSHED AGG OR CRUSHED STONE)
- (10) CONCRETE GUTTER, TYPE A (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 GYR	LR 1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"	4% @ 50 GYR	LR 1030-2
<b>MULTI-USE PATH</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 3" (2 LIFTS)	4% @ 50 GYR	LR 1030-2
<b>PAVEMENT PATCHING</b>		
CLASS D PATCHES, (HMA BINDER IL-19mm); 6"	4% @ 70 GYR	LR 1030-2
<b>INCIDENTAL HMA SURFACING (DRIVEWAYS)</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 GYR	LR 1030-2
<b>HMA SHOULDERS</b>		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 8"	4% @ 50 GYR	LR 1030-2

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER 1030-2

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

PATCHING LOCATIONS TO BE DETERMINED AFTER MILLING OPERATIONS.

LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA POLY BC IL-4.75 N50 FOR RESURFACING AREAS.

HRG PROJECT NO. 21/700  
 HRG PROJ CONTACT:  
 FILE NAME: 21/700-SR1-1-1p-01.dgn  
 PEN TABLE: 10/10/2023



USER NAME = jstrzal  
 PLOT SCALE = 20.0000' / 1"  
 PLOT DATE = 8/21/2023

DESIGNED - JJS  
 DRAWN - DMS  
 CHECKED - JJS  
 DATE -

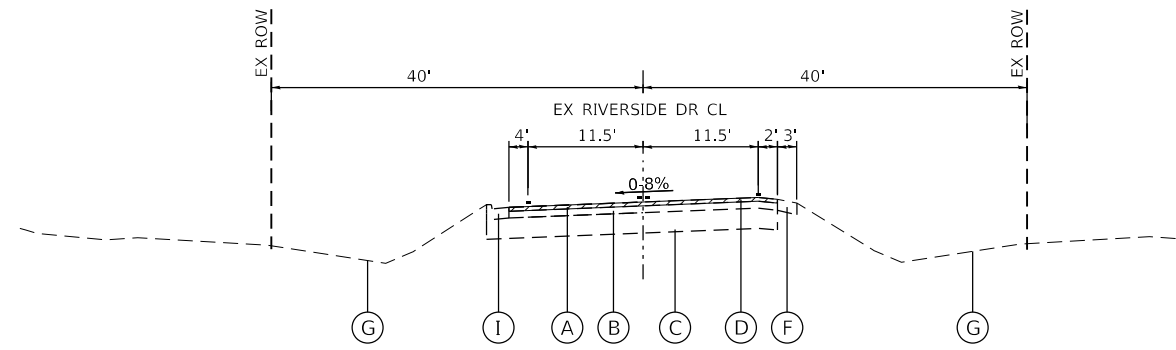
REVISED - XX/XX/XXXX  
 REVISED - XX/XX/XXXX  
 REVISED - XX/XX/XXXX  
 REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING & PROPOSED TYPICAL SECTIONS  
 RIVERSIDE DRIVE**

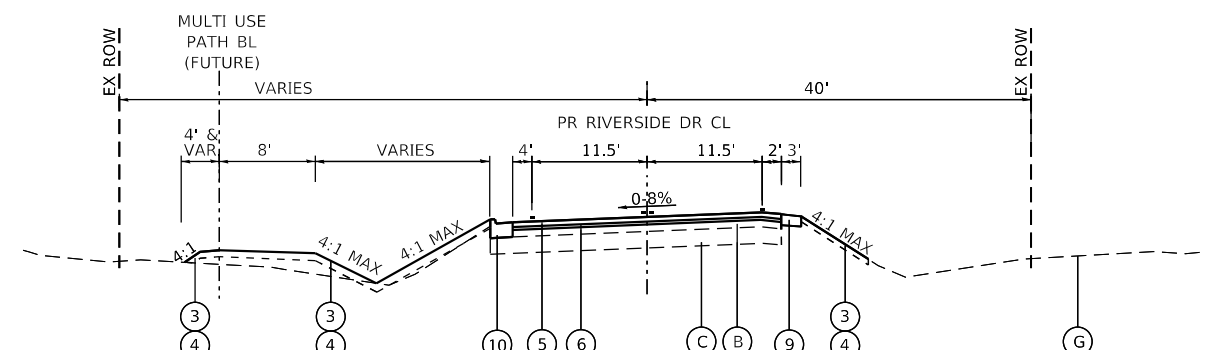
SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	11
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	



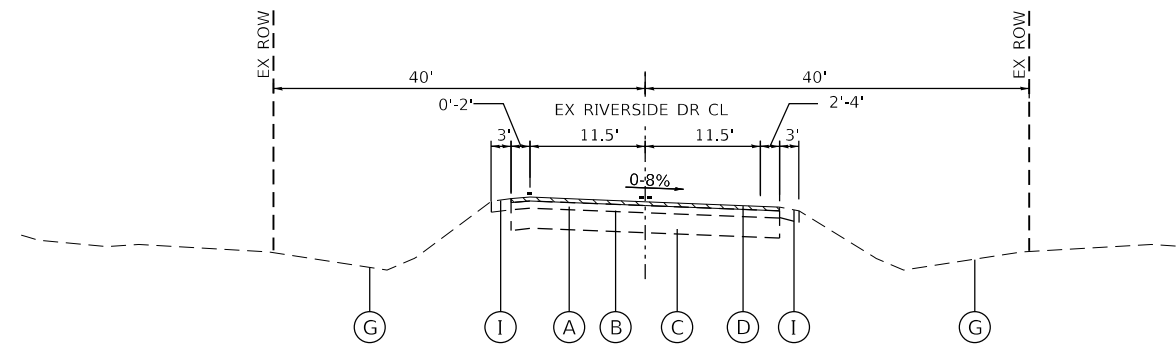
EXISTING TYPICAL SECTION RIVERSIDE DRIVE

STA. 30+55 TO STA. 36+88



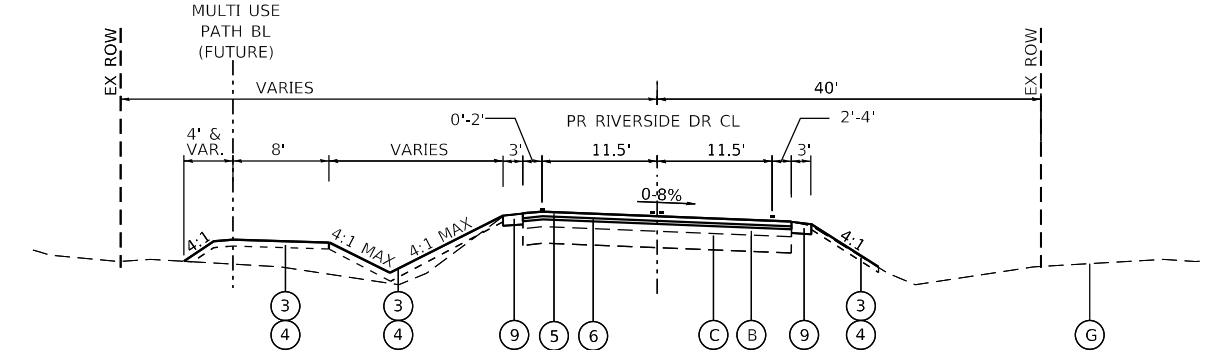
PROPOSED TYPICAL SECTION RIVERSIDE DRIVE

STA. 30+55 TO STA. 36+88



EXISTING TYPICAL SECTION RIVERSIDE DRIVE

STA. 36+88 TO STA. 46+00



PROPOSED TYPICAL SECTION RIVERSIDE DRIVE

STA. 36+88 TO STA. 46+00

EXISTING LEGEND

- (A) HMA SURFACE COURSE; 1½" - 3¾"
- (B) HMA BINDER COURSE; 1¼" - 3¾"
- (C) AGGREGATE BASE COURSE; +/- 12"
- (D) HOT-MIX ASPHAL SURFACE REMOVAL, 2¾"
- (E) OMITTED
- (F) AGGREGATE/EARTH SHOULDER
- (G) EXISTING GROUND
- (H) COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12
- (I) CONCRETE GUTTER, TYPE A (SPOT REMOVAL AND REPLACEMENT AS DIRECTED BY THE ENGINEER)
- (J) PCC SIDEWALK

PROPOSED LEGEND

- (1) OMITTED
- (2) OMITTED
- (3) SEEDING CLASS 2A / EROSION CONTROL BLANKET (SPECIAL)
- (4) TOPSOIL FURNISH & PLACE, 4"
- (5) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- (6) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 1"
- (7) SHOULDER RUMBLE STRIPS, 8"
- (8) OMITTED
- (9) AGGREGATE SHOULDERS, TYPE B (9% MAX SLOPE) (CA-6 CRUSHED AGG OR CRUSHED STONE)
- (10) CONCRETE GUTTER, TYPE A (SPOT REMOVAL & REPLACEMENT)

HRG PROJECT NO: 21/700  
 HRG PROJ CONTACT:  
 FILE NAME: 21/700-SR1-1yp-02.dgn  
 PEN TABLE: 1/10/2023



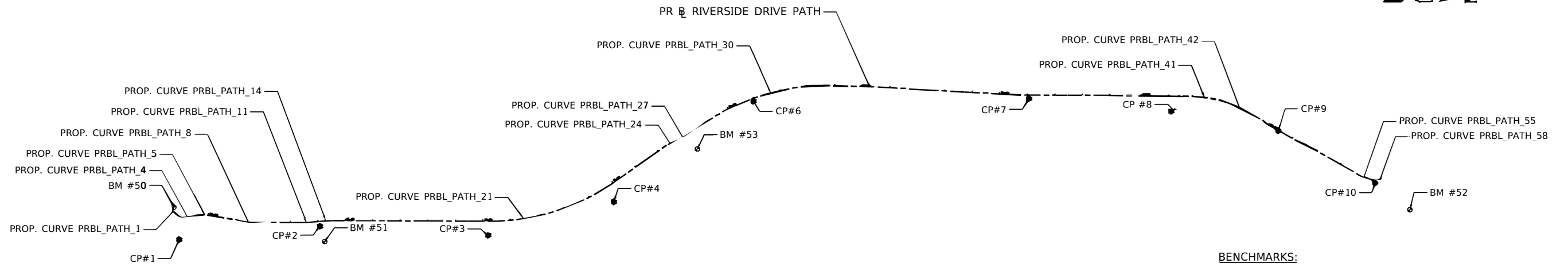
USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 8/21/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED TYPICAL SECTIONS  
 RIVERSIDE DRIVE

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	McHENRY	87	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61168	



**BENCHMARKS:**

SOURCE BENCHMARK: CUT SQUARE ON THE NORTHWEST CORNER OF THE NORTH HEADWALL OF BRIDGE OVER CREEK AT THE NORTHEAST CORNER OF JOHNSBURG ROAD AND RIVERSIDE DRIVE  
ELEVATION = 752.55' (NAVD88)

SITE BM50:  
ARROW BOLT IN FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF RUNNING BROOK FARM BOULEVARD AND RIVERSIDE DRIVE.  
ELEVATION = 773.40' (NAVD88)

SITE BM51:  
SPIKE IN UTILITY POLE AT THE NORTHEAST CORNER OF PLEASANT DRIVE AND RIVERSIDE DRIVE.  
ELEVATION = 777.53' (NAVD88)

SITE BM52:  
CUT CROSS IN CONCRETE CURB AT THE NORTHEAST CORNER OF JOHNSBURG ROAD AND RIVERSIDE DRIVE LOCATED APPROXIMATELY 29 FEET NORTHEAST OF TRAFFIC SIGNAL.  
ELEVATION = 755.81' (NAVD88)

SITE BM53:  
SPIKE IN SECOND UTILITY POLE SOUTH OF DUTCH CREEK LOCATED ON THE EAST SIDE OF RIVERSIDE DRIVE.  
ELEVATION = 748.68' (NAVD88)

PROP. CURVE PRBL_PATH_1 PI STA. = 18+76.53 $\Delta = 42^\circ 49' 17''$ (LT) $D = 85^\circ 38' 33''$ $R = 66.90'$ $T = 26.23'$ $L = 50.00'$ $E = 4.96'$ P.C. STA. = 18+50.30 P.T. STA. = 19+00.30	PROP. CURVE PRBL_PATH_4 PI STA. = 19+18.18 $\Delta = 16^\circ 33' 20''$ (LT) $D = 62^\circ 16' 41''$ $R = 92.00'$ $T = 13.38'$ $L = 26.58'$ $E = 0.97'$ P.C. STA. = 19+04.79 P.T. STA. = 19+31.38	PROP. CURVE PRBL_PATH_5 PI STA. = 19+68.29 $\Delta = 26^\circ 17' 54''$ (RT) $D = 36^\circ 15' 47''$ $R = 158.00'$ $T = 36.91'$ $L = 72.52'$ $E = 0.50'$ P.C. STA. = 19+31.38 P.T. STA. = 20+03.90	PROP. CURVE PRBL_PATH_8 PI STA. = 21+53.02 $\Delta = 9^\circ 34' 39''$ (LT) $D = 40^\circ 20' 57''$ $R = 142.00'$ $T = 11.90'$ $L = 23.74'$ $E = 0.24'$ P.C. STA. = 21+41.13 P.T. STA. = 21+64.86	PROP. CURVE PRBL_PATH_11 PI STA. = 23+61.80 $\Delta = 5^\circ 36' 54''$ (LT) $D = 28^\circ 38' 52''$ $R = 200.00'$ $T = 9.81'$ $L = 19.60'$ $E = 0.24'$ P.C. STA. = 23+51.99 P.T. STA. = 23+71.59	PROP. CURVE PRBL_PATH_14 PI STA. = 24+33.25 $\Delta = 5^\circ 36' 37''$ (RT) $D = 28^\circ 38' 52''$ $R = 200.00'$ $T = 9.80'$ $L = 19.58'$ $E = 0.24'$ P.C. STA. = 24+23.45 P.T. STA. = 24+43.04
PROP. CURVE PRBL_PATH_21 PI STA. = 32+72.76 $\Delta = 35^\circ 03' 40''$ (LT) $D = 7^\circ 19' 37''$ $R = 782.00'$ $T = 247.02'$ $L = 478.53'$ $E = 38.09'$ P.C. STA. = 30+25.74 P.T. STA. = 35+04.27	PROP. CURVE PRBL_PATH_24 PI STA. = 37+59.00 $\Delta = 14^\circ 59' 52''$ (RT) $D = 52^\circ 05' 13''$ $R = 110.00'$ $T = 14.48'$ $L = 28.79'$ $E = 0.95'$ P.C. STA. = 37+44.52 P.T. STA. = 37+73.32	PROP. CURVE PRBL_PATH_27 PI STA. = 38+11.67 $\Delta = 15^\circ 45' 57''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 13.85'$ $L = 27.52'$ $E = 0.95'$ P.C. STA. = 37+97.83 P.T. STA. = 38+25.34	PROP. CURVE PRBL_PATH_30 PI STA. = 41+47.04 $\Delta = 37^\circ 38' 28''$ (RT) $D = 7^\circ 19' 37''$ $R = 782.00'$ $T = 266.53'$ $L = 513.75'$ $E = 44.17'$ P.C. STA. = 38+80.51 P.T. STA. = 43+94.26	PROP. CURVE PRBL_PATH_41 PI STA. = 57+83.52 $\Delta = 20^\circ 26' 04''$ (RT) $D = 12^\circ 34' 45''$ $R = 455.48'$ $T = 82.10'$ $L = 162.45'$ $E = 7.34'$ P.C. STA. = 57+01.42 P.T. STA. = 58+63.87	PROP. CURVE PRBL_PATH_42 PI STA. = 58+86.82 $\Delta = 8^\circ 20' 11''$ (RT) $D = 18^\circ 11' 21''$ $R = 315.00'$ $T = 22.96'$ $L = 45.83'$ $E = 0.84'$ P.C. STA. = 58+63.87 P.T. STA. = 59+09.70
PROP. CURVE PRBL_PATH_55 PI STA. = 64+13.15 $\Delta = 34^\circ 54' 26''$ (LT) $D = 62^\circ 16' 41''$ $R = 92.00'$ $T = 28.93'$ $L = 56.05'$ $E = 4.44'$ P.C. STA. = 63+84.23 P.T. STA. = 64+40.28	PROP. CURVE PRBL_PATH_58 PI STA. = 64+56.96 $\Delta = 24^\circ 00' 48''$ (RT) $D = 163^\circ 42' 08''$ $R = 35.00'$ $T = 7.44'$ $L = 14.67'$ $E = 0.78'$ P.C. STA. = 64+49.51 P.T. STA. = 64+64.18				

ALIGNMENT COORDINATES - RIVERSIDE DRIVE PATH			
DESCRIPTION	STATION	N	E
POB/PC	18+50.30	2076309.06	1004680.11
PI	18+76.53	2076319.93	1004703.98
PT	19+00.30	2076344.14	1004714.10
PC	19+04.79	2076348.63	1004714.10
PI	19+18.18	2076362.01	1004714.10
PCC	19+31.38	2076374.84	1004710.29
PI	19+68.29	2076410.22	1004699.77
PT	20+03.90	2076446.60	1004706.02
PC	21+41.13	2076581.85	1004729.24
PI	21+53.02	2076593.58	1004731.25
PT	21+64.86	2076605.48	1004731.29
PC	23+51.99	2076792.60	1004731.83
PI	23+61.80	2076802.41	1004731.85
PT	23+71.59	2076812.17	1004730.92
PC	24+23.45	2076863.80	1004726.00
PI	24+33.25	2076873.56	1004725.07
PT	24+43.04	2076883.35	1004725.09
PI	25+57.82	2076998.14	1004725.41
PI	26+52.62	2077092.94	1004725.69
PC	30+25.74	2077466.05	1004726.77
PI	32+72.76	2077713.07	1004727.48
PT	35+04.27	2077915.68	1004586.16
PC	37+44.52	2078112.74	1004448.71
PI	37+59.00	2078124.61	1004440.43
PT	37+73.32	2078138.23	1004435.50

ALIGNMENT COORDINATES - RIVERSIDE DRIVE PATH			
DESCRIPTION	STATION	N	E
PC	37+97.83	2078161.27	1004427.16
PI	38+11.67	2078174.29	1004422.45
PT	38+25.34	2078185.54	1004414.38
PC	38+80.51	2078230.36	1004382.21
PI	41+47.04	2078446.91	1004226.82
PT	43+94.26	2078713.27	1004236.01
PI	44+90.24	2078809.20	1004239.32
PI	45+74.08	2078893.01	1004241.66
PI	50+94.97	2079413.13	1004269.96
PI	56+01.99	2079920.14	1004271.76
PC	57+01.42	2080019.53	1004274.73
PI	57+83.52	2080101.59	1004277.18
PCC	58+63.87	2080177.63	1004308.13
PI	58+86.82	2080198.89	1004316.78
PT	59+09.70	2080218.68	1004328.42
PI	59+73.00	2080273.24	1004360.53
PI	59+98.56	2080292.09	1004377.78
PI	60+45.20	2080333.18	1004399.85
PI	61+25.65	2080403.00	1004439.81
PI	61+51.05	2080426.92	1004448.36
PC	63+84.23	2080629.97	1004562.99
PI	64+13.15	2080655.16	1004577.21
PT	64+40.28	2080683.96	1004574.46
PC	64+49.51	2080693.17	1004573.77
PI	64+56.96	2080700.59	1004573.15
PT	64+64.18	2080707.62	1004575.61

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 PLOT DATE: 7/10/2023  
 PEN TABLE: ACP/10/04/19

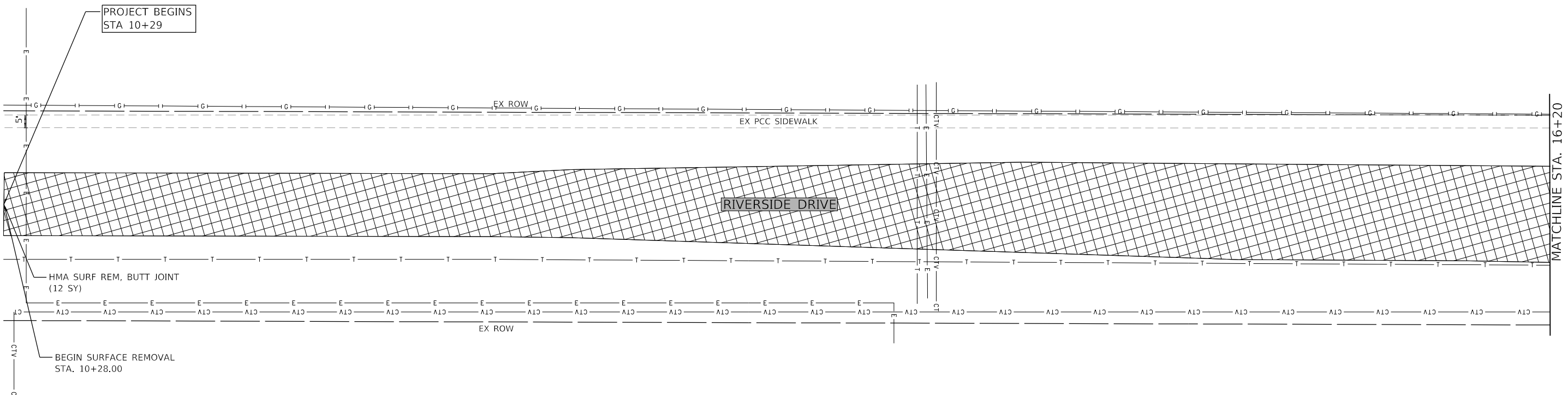


USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
PLOT SCALE = 400.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

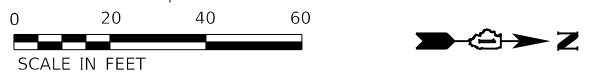
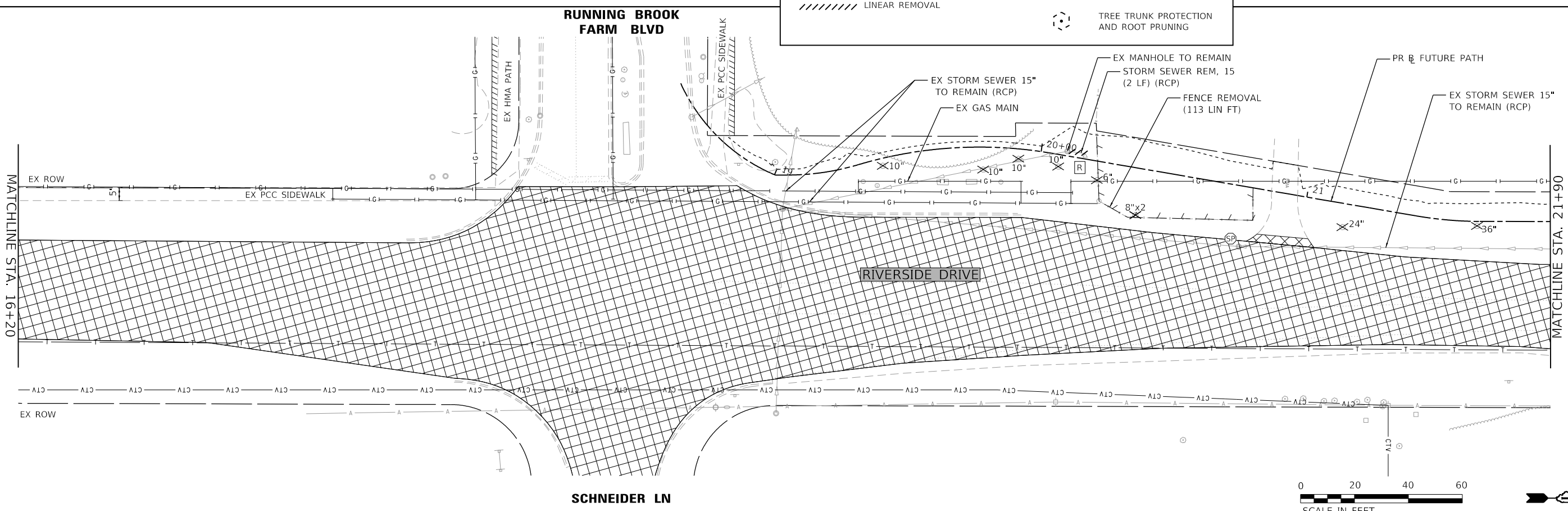
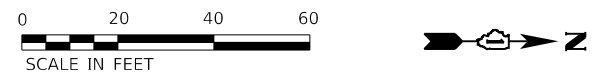
ALIGNMENT & BENCHMARKS		RIVERSIDE DRIVE	
SCALE: 1"=200'	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	13
			CONTRACT NO. 61J68	
[ ILLINOIS ] FED. AID PROJECT				



**LEGEND**

- HMA SURFACE REMOVAL
- PAVEMENT REMOVAL
- LINEAR REMOVAL
- ITEM / TREE REMOVAL
- STRUCTURE TO BE REMOVED OR ADJUSTED
- TREE TRUNK PROTECTION AND ROOT PRUNING



HRG PROJECT NO. 21/700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21/700-SR1-r-em-01.dgn  
 PEN TABLE: 1/10/2023.tbl

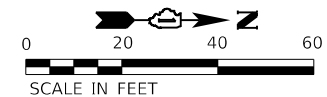
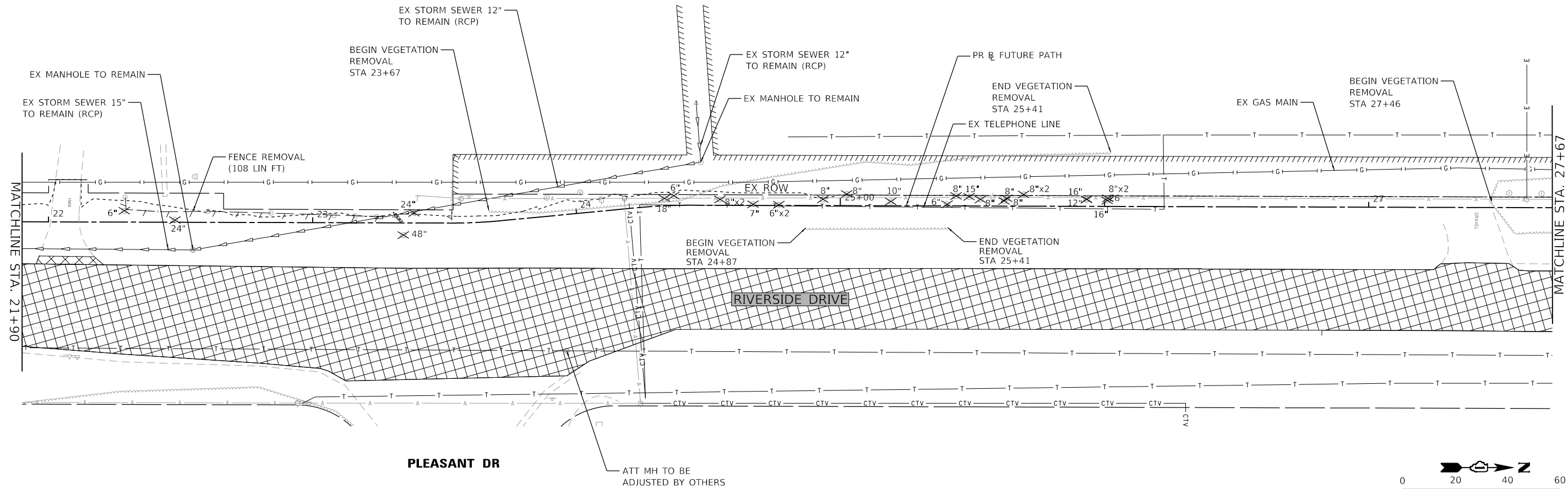


USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40,0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

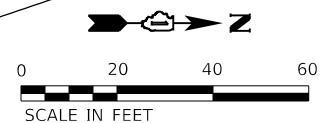
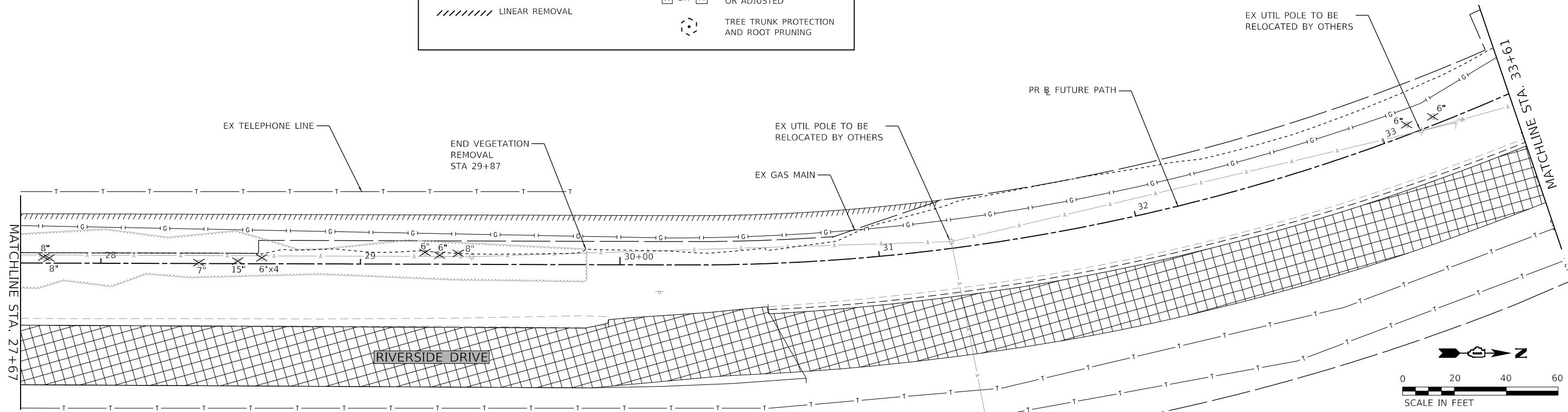
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN</b>	
<b>RIVERSIDE DRIVE</b>	
SCALE: 1"=20'	SHEET 1 OF 5 SHEETS
STA. 10+29.00 TO STA. 21+90.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHEMRY	87	14
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				



LEGEND	
	HMA SURFACE REMOVAL
	PAVEMENT REMOVAL
	LINEAR REMOVAL
	ITEM / TREE REMOVAL
	STRUCTURE TO BE REMOVED OR ADJUSTED
	TREE TRUNK PROTECTION AND ROOT PRUNING



HRG PROJECT NO. 21/700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21/700-217-R-66-02.dgn  
 PEN TABLE: 21/700.tbl



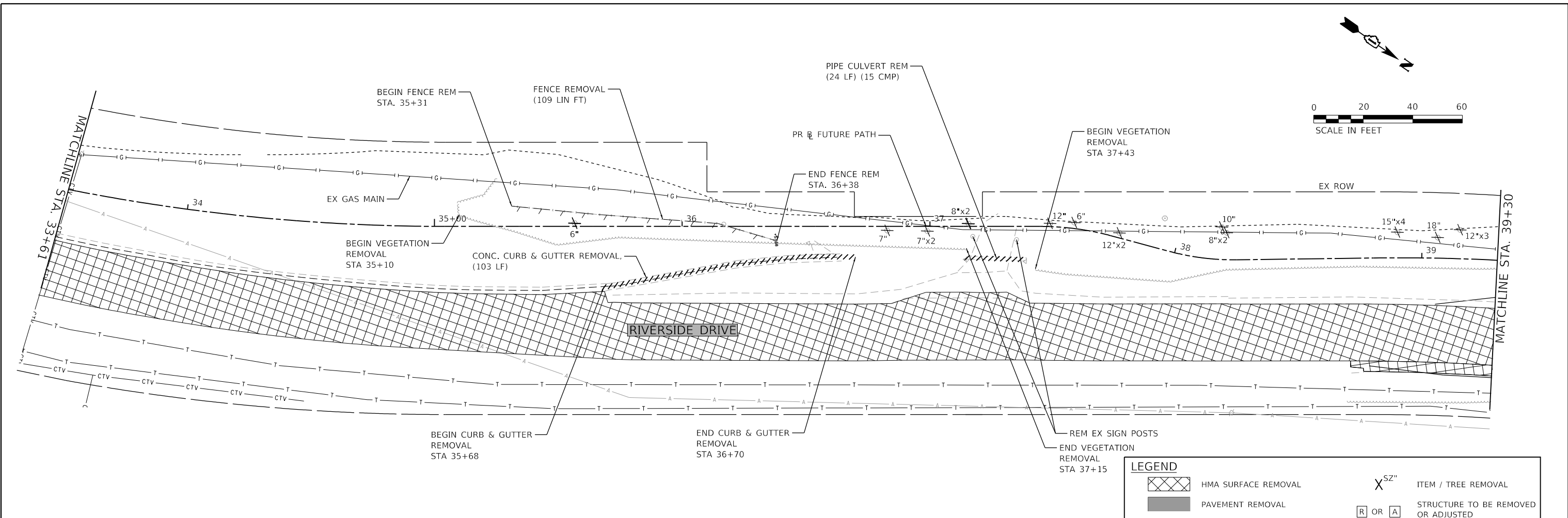
USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED -	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

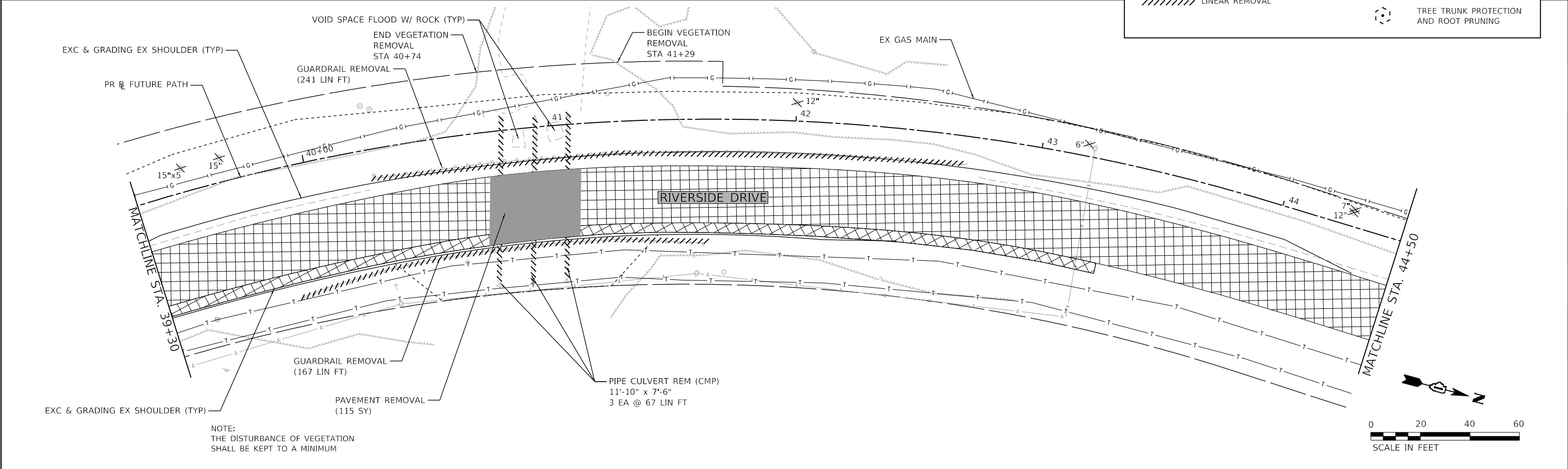
**REMOVAL PLAN  
RIVERSIDE DRIVE**

SCALE: 1"=20'    SHEET 2 OF 5 SHEETS    STA. 21+90.00 TO STA. 33+61.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	15
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				



LEGEND	
	HMA SURFACE REMOVAL
	PAVEMENT REMOVAL
	LINEAR REMOVAL
	ITEM / TREE REMOVAL
	STRUCTURE TO BE REMOVED OR ADJUSTED
	TREE TRUNK PROTECTION AND ROOT PRUNING



NOTE:  
THE DISTURBANCE OF VEGETATION  
SHALL BE KEPT TO A MINIMUM

HRG PROJECT NO. 2/1700  
 HRG PROJ CONTACT:  
 FILE NAME: 2/1700-SR1-r-em-03.dgn  
 PEN TABLE: 1/16/2023.tbl



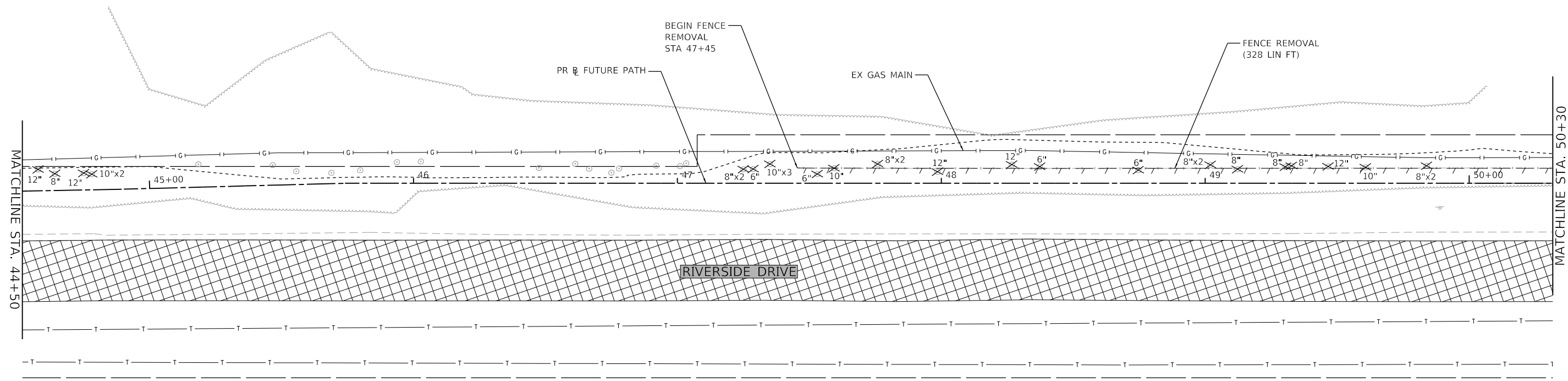
USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

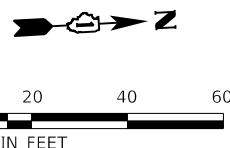
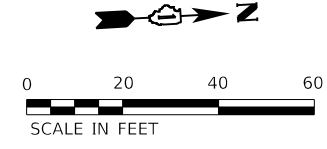
<b>REMOVAL PLAN RIVERSIDE DRIVE</b>	
SCALE: 1"=20'	SHEET 3 OF 5 SHEETS
STA. 33+61.00 TO STA. 44+50.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	16
CONTRACT NO. 61168				
ILLINOIS FED. AID PROJECT				





LEGEND	
	HMA SURFACE REMOVAL
	PAVEMENT REMOVAL
	LINEAR REMOVAL
	ITEM / TREE REMOVAL
	STRUCTURE TO BE REMOVED OR ADJUSTED
	TREE TRUNK PROTECTION AND ROOT PRUNING



HRG PROJECT NO: 21/700  
 HRG PROJ CONTACT:  
 FILE NAME: 21/700-571-r-em-04.dgn  
 PEN TABLE: 21/700.tbl  
 PEN TABLE: 21/700.tbl

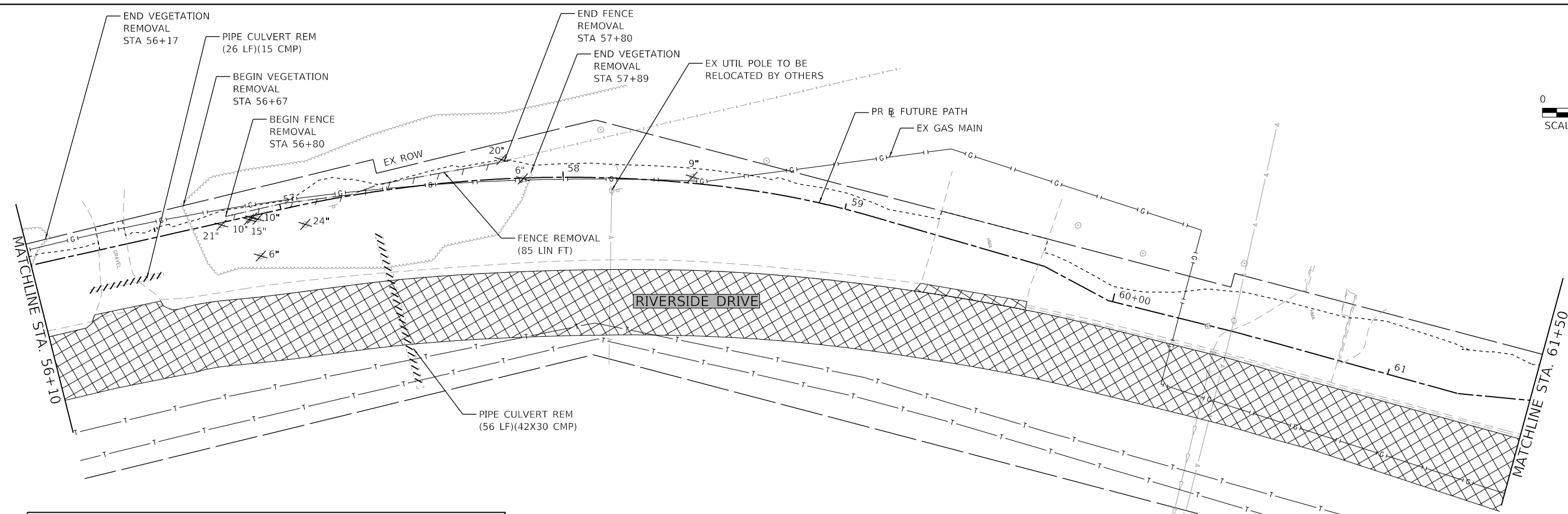
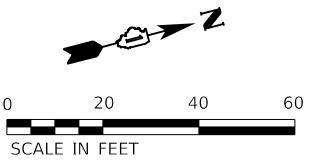


USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000 ' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

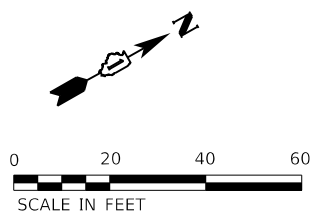
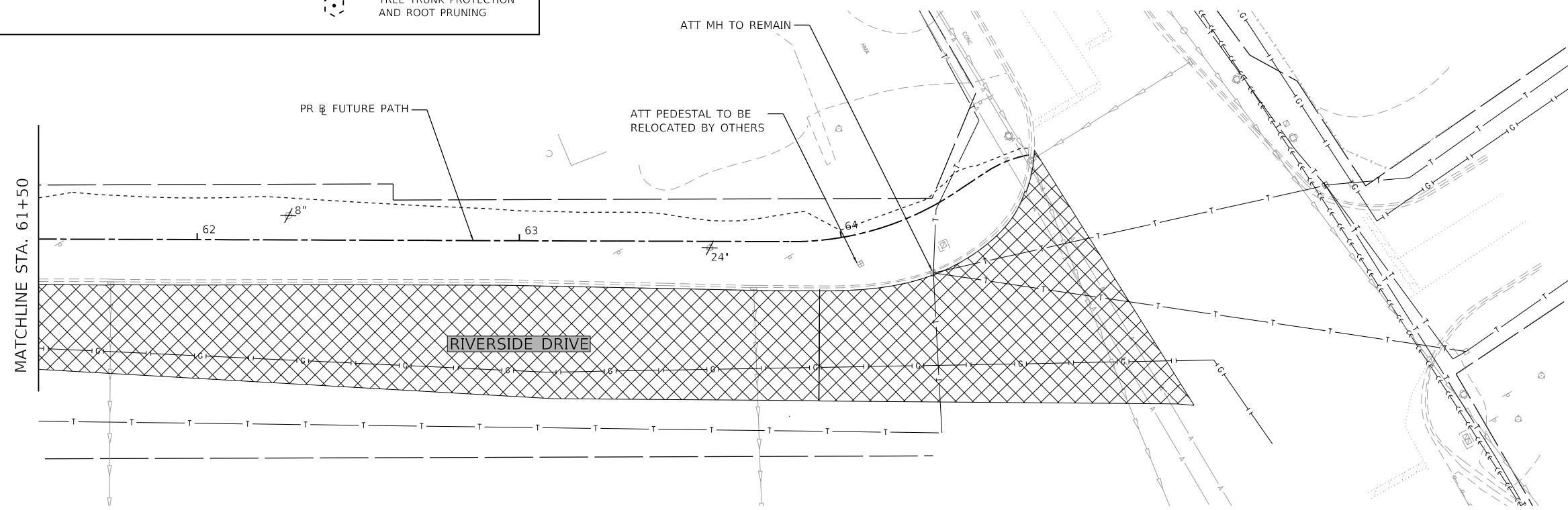
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL PLAN RIVERSIDE DRIVE</b>		
SCALE: 1"=20'	SHEET 4 OF 5 SHEETS	STA. 44+50.00 TO STA. 56+10.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	17
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				



LEGEND	
	HMA SURFACE REMOVAL
	PAVEMENT REMOVAL
	LINEAR REMOVAL
	ITEM / TREE REMOVAL
	STRUCTURE TO BE REMOVED OR ADJUSTED
	TREE TRUNK PROTECTION AND ROOT PRUNING



HRG PROJECT NO: 21/700  
 HRG PROJ CONTACT:  
 FILE NAME: 21/700-SR1-rem-05.dgn  
 PEN TABLE: 21/700.tbl  
 HRGreen.com



USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000 ' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN**  
**RIVERSIDE DRIVE**

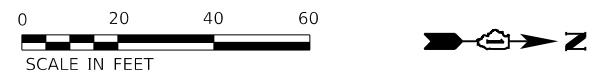
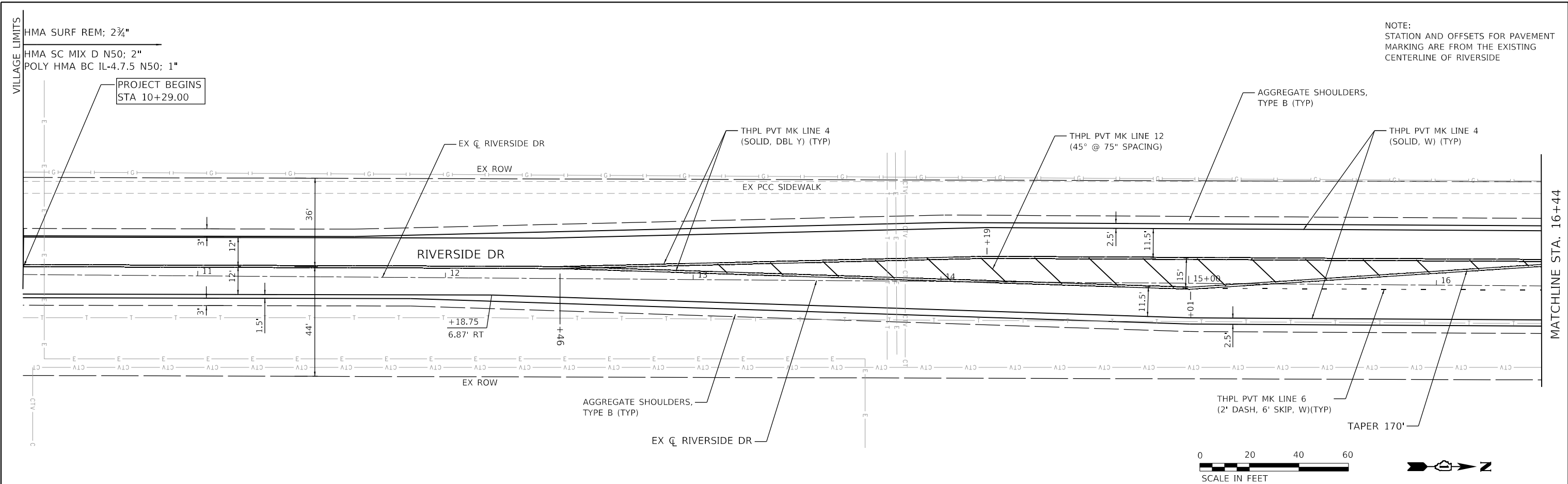
SCALE: 1"=20'    SHEET 5 OF 5 SHEETS    STA. 56+10.00 TO STA. 64+60.59

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	18
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				

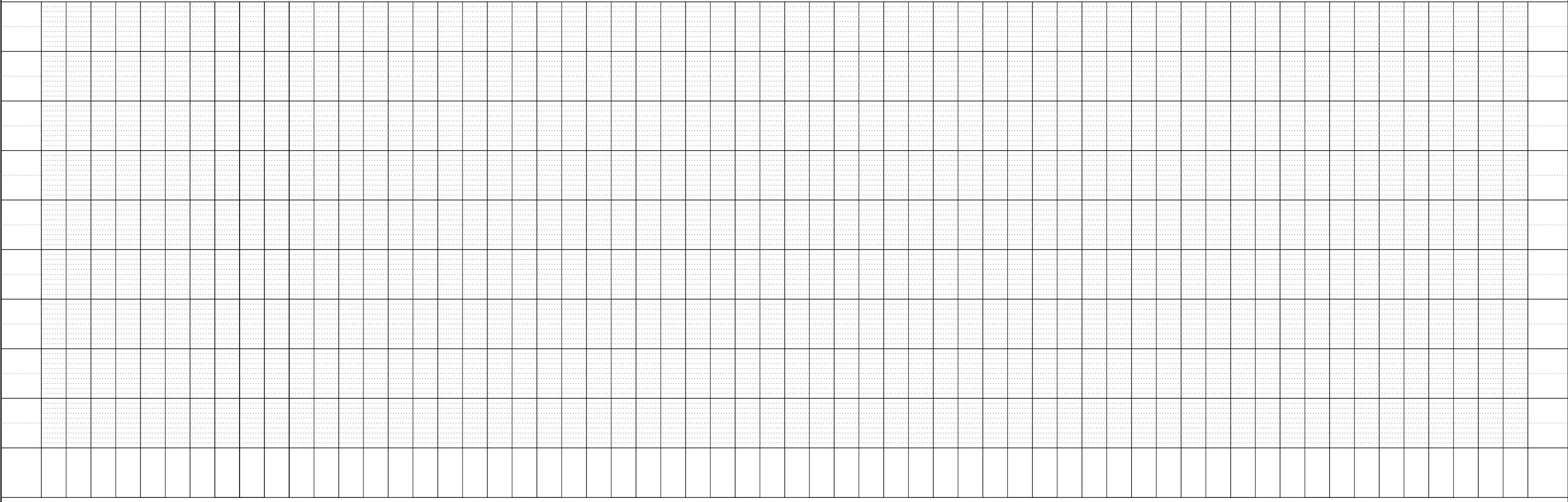
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	CARD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	
	NOTATIS CHKD	
	NO.	

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT  
 FILE NAME: 21700-00-SHT-PLAN-1-01.dgn  
 PEN TABLE: 10/10/2023



NOTE:  
 STATION AND OFFSETS FOR PAVEMENT MARKING ARE FROM THE EXISTING CENTERLINE OF RIVERSIDE

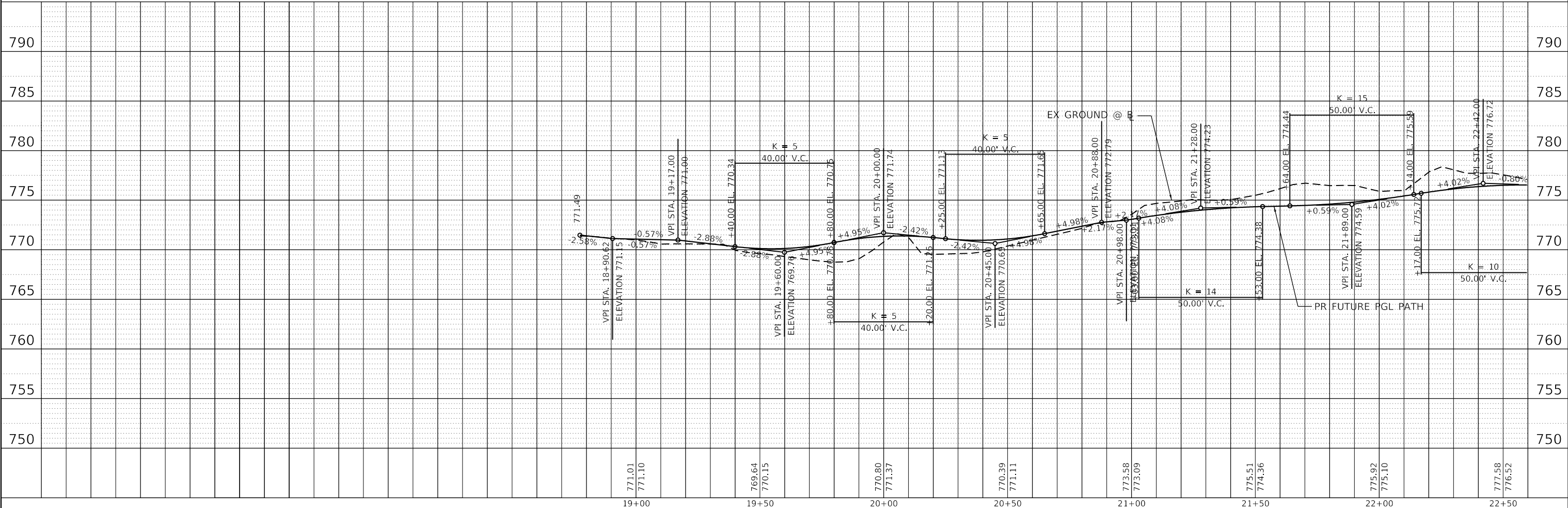
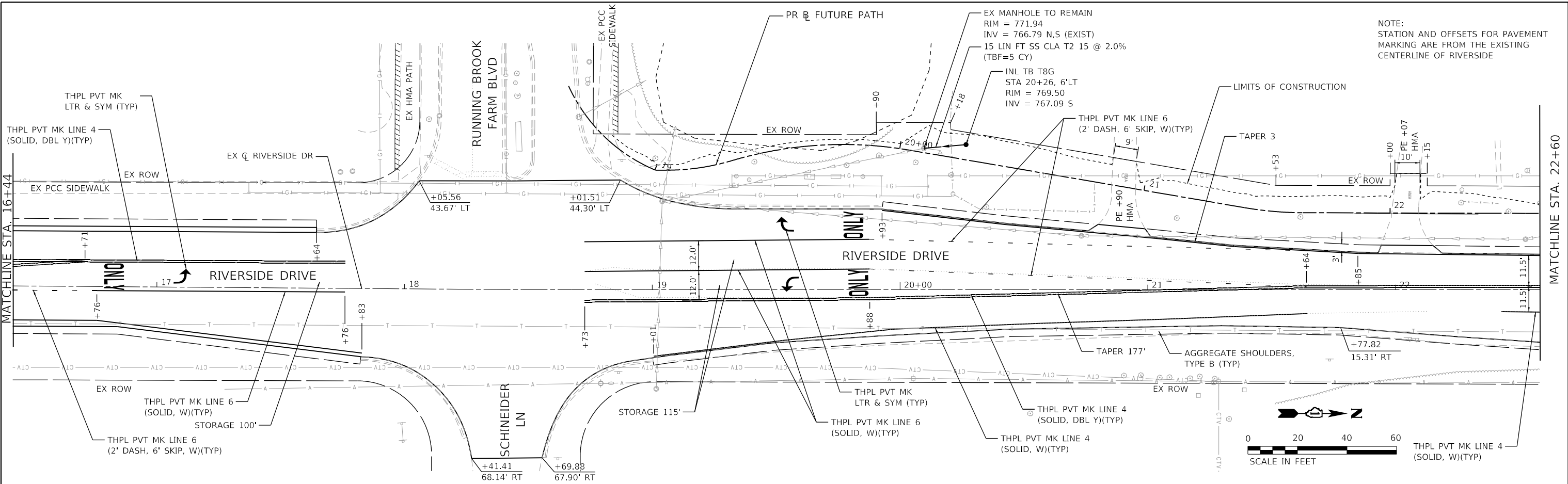


	USER NAME = jstrzal PLOT SCALE = 40.0000' / in. PLOT DATE = 7/10/2023	DESIGNED - JJS DRAWN - DMS CHECKED - JJS DATE -	REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>PATH PLAN &amp; PROFILE          RIVERSIDE DRIVE</b>	F.A. RTE. 156 SECTION 20-00016-00-RS COUNTY MCHENRY CONTRACT NO. 61168	TOTAL SHEETS 87 SHEET NO. 19	ILLINOIS FED. AID PROJECT
	SCALE: 1"=20' SHEET 1 OF 10 SHEETS STA. 10+29.00 TO STA. 16+44.00							

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	DESIGNED	
	FILE NAME	
	TABLE NAME	
	FILE NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	DESIGNED	
	FILE NAME	
	TABLE NAME	
	FILE NO.	

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-00-001-001-001.dgn  
 PEN TABLE: p101tbl.tbl

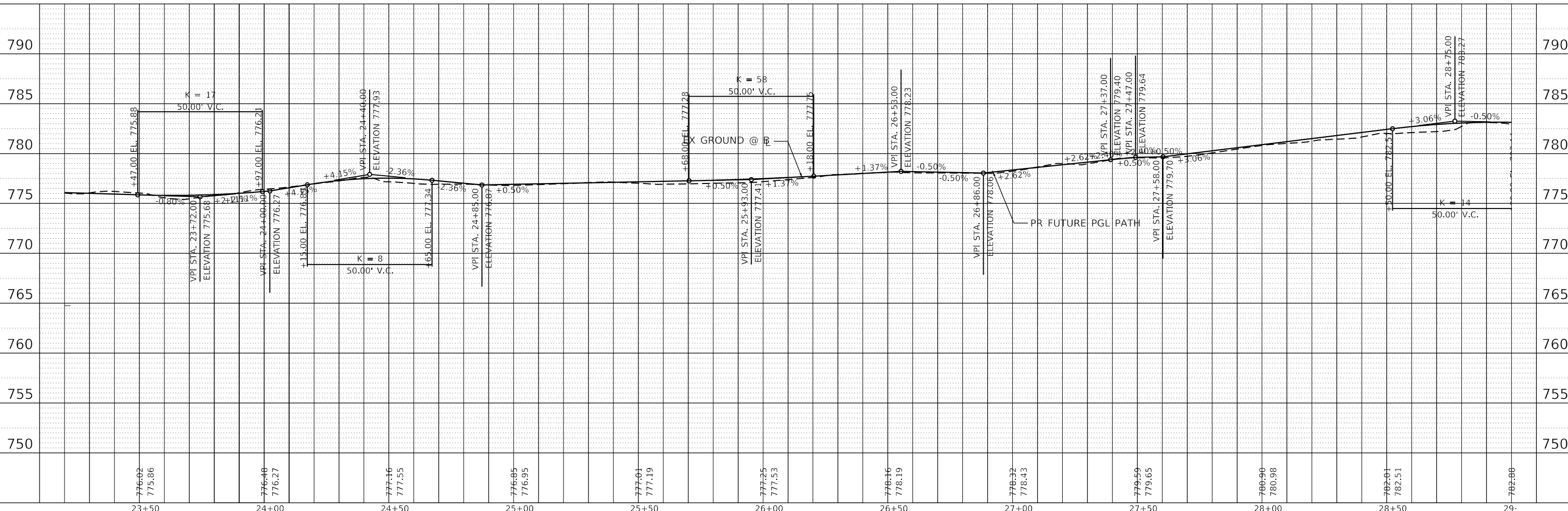
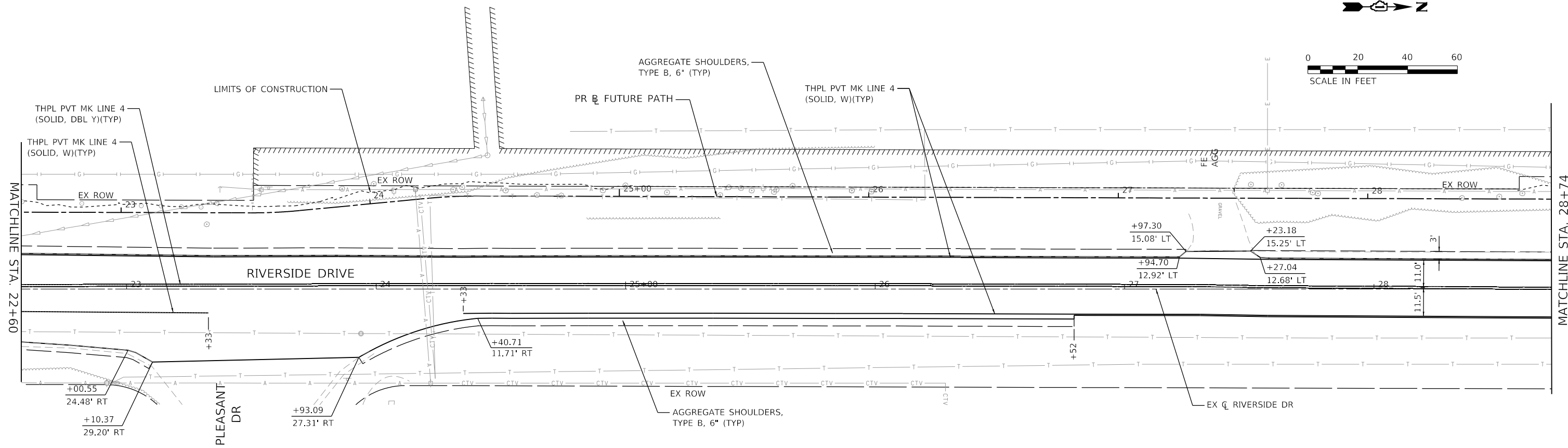


HRGreen.com #184-001322	USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>PATH PLAN &amp; PROFILE          RIVERSIDE DRIVE</b>	F.A. RTE. 156	SECTION 20-00016-00-RS	COUNTY MCHENRY	TOTAL SHEETS 87	SHEET NO. 20	
HRGreen.com	PLOT SCALE = 40.0000" / in.	CHECKED - JJS	REVISED - XX/XX/XXXX			SCALE: 1"=20'	SHEET 2 OF 10 SHEETS	STA. 16+44.00 TO STA. 22+60.00	CONTRACT NO. 61168		
	PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX			ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO. _____		
	FILE NAME _____		
	DATE _____		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NO. _____		
	FILE NAME _____		
	DATE _____		

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-217-PLAN-RIVERSIDE-03.dgn  
 PEN TABLE: p101tbl.dtl



776-02 775.86	776-48 776.27	777-16 777.55	776-85 776.95	777-01 777.19	777-25 777.53	778-16 778.19	778-32 778.43	779-59 779.65	780-96 780.98	782-01 782.51	782-98
23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00	27+50	28+00	28+50	29+00



USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

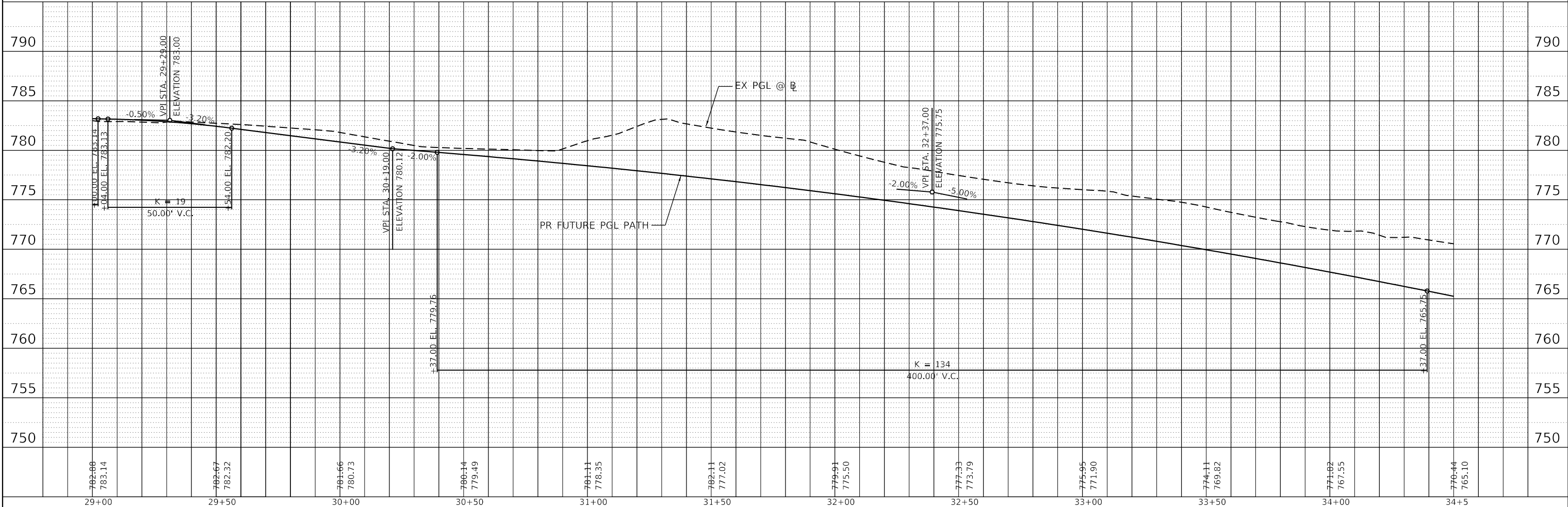
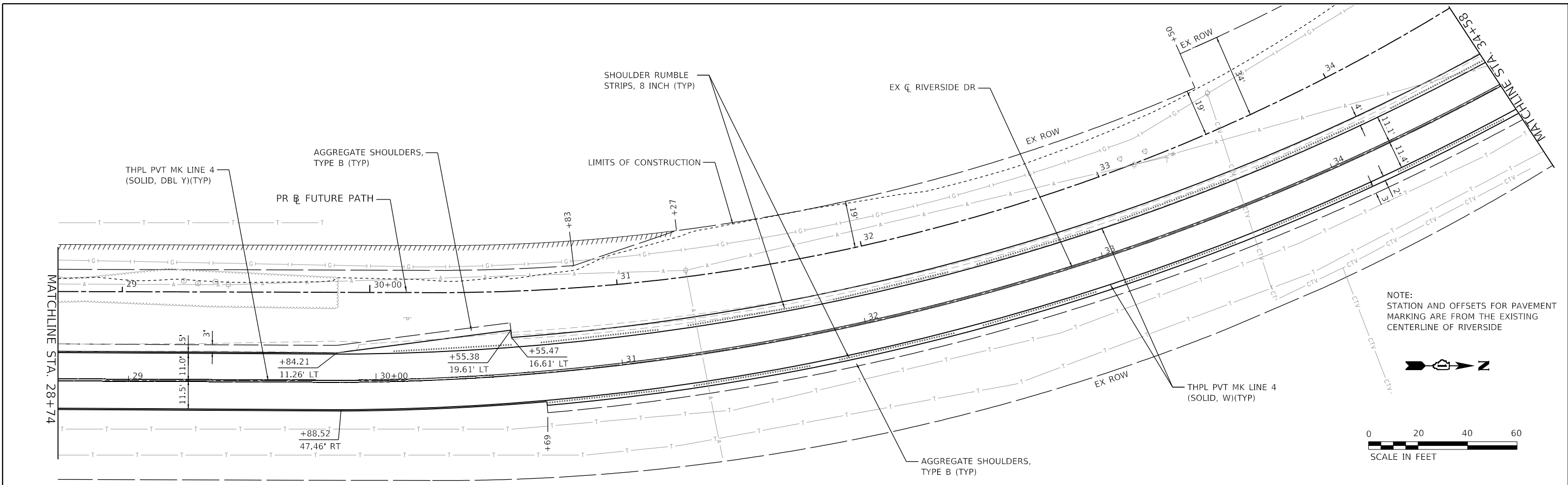
<b>PATH PLAN &amp; PROFILE</b>	
<b>RIVERSIDE DRIVE</b>	
SCALE: 1"=20'	SHEET 3 OF 10 SHEETS
STA. 22+60.00	TO STA. 28+74.00

F.A. RTE. 156	SECTION 20-00016-00-RS	COUNTY MCHENRY	TOTAL SHEETS 87	SHEET NO. 21
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO. _____		
	FILE NAME _____		
	TABLE _____		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO. _____		
	FILE NAME _____		
	TABLE _____		

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-21700-S17-PLAN-R-04.dgn  
 PEN TABLE: 21700tbl.rvt



782.88 783.14	782.67 782.32	781.66 780.73	780.14 779.49	781.11 778.35	782.11 777.02	779.91 775.50	777.93 773.79	775.95 771.90	774.11 769.82	771.82 767.55	770.44 765.10
29+00	29+50	30+00	30+50	31+00	31+50	32+00	32+50	33+00	33+50	34+00	34+5

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

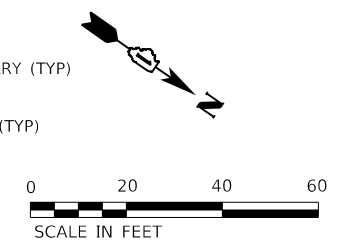
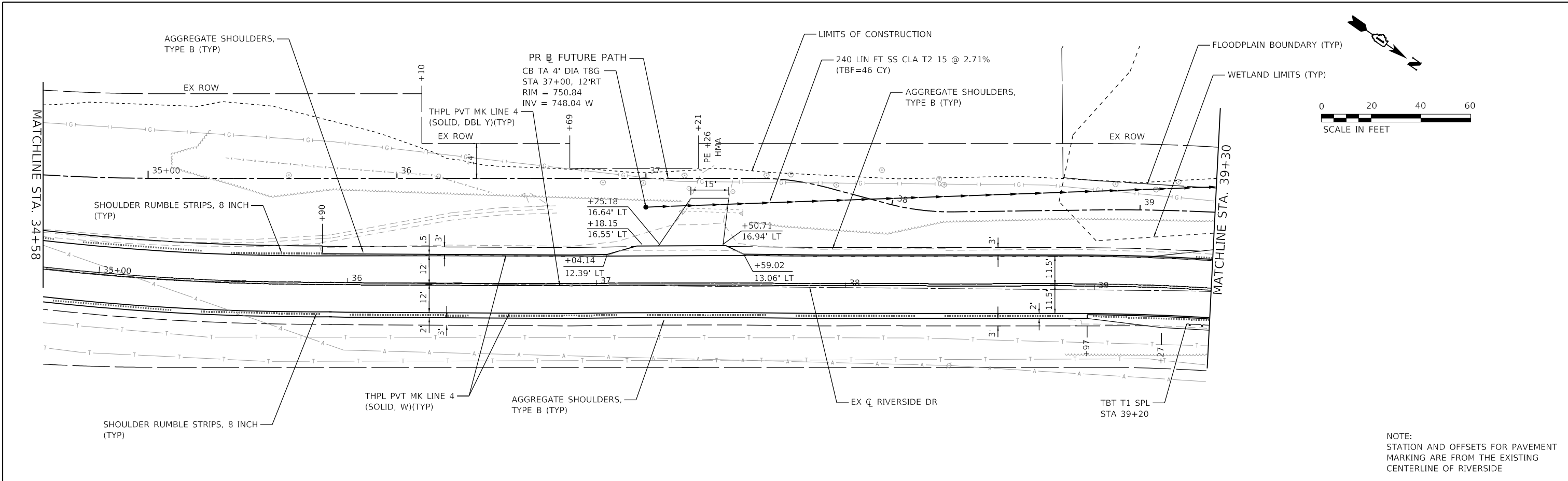
<b>PATH PLAN &amp; PROFILE</b>	
<b>RIVERSIDE DRIVE</b>	
SCALE: 1"=20'	SHEET 4 OF 10 SHEETS
STA. 28+74.00	TO STA. 34+58.00

F.A. RTE. 156	SECTION 20-00016-00-R5	COUNTY MCHENRY	TOTAL SHEETS 87	SHEET NO. 22
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

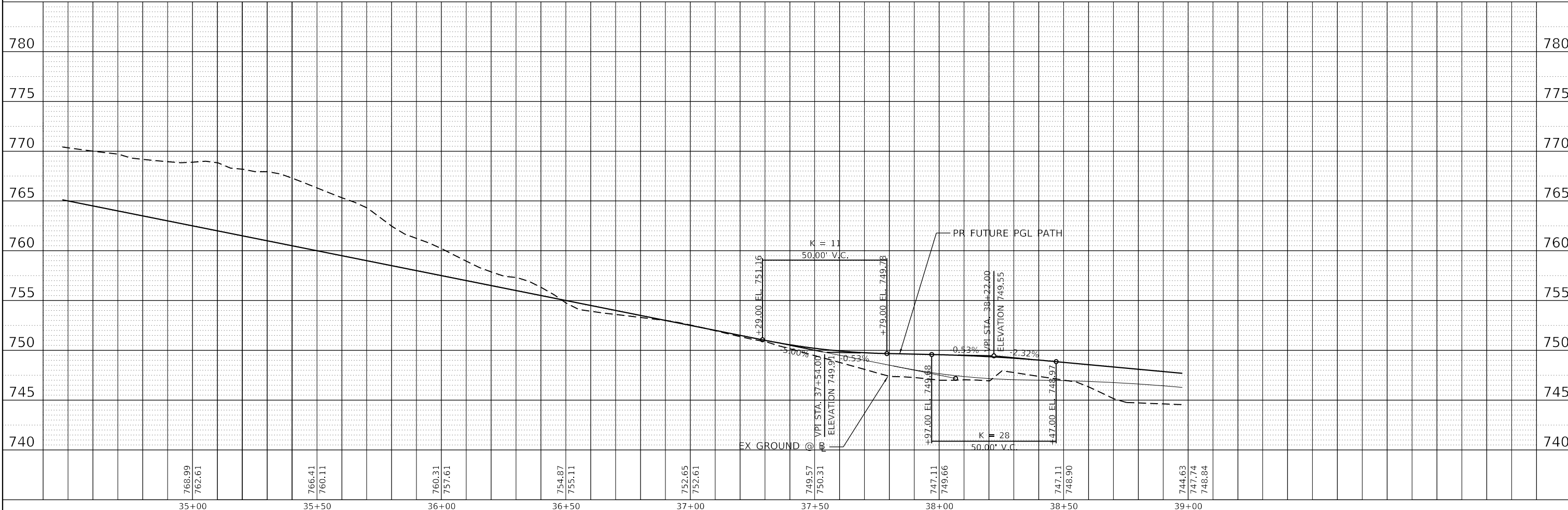
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHWD		
	NO.		

HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-397-p1pr-f-05.dgn  
 PEN TABLE: p1pr.tbl



NOTE:  
 STATION AND OFFSETS FOR PAVEMENT MARKING ARE FROM THE EXISTING CENTERLINE OF RIVERSIDE



35+00	768.99 762.61	35+50	766.41 760.11	36+00	760.31 757.61	36+50	754.87 755.11	37+00	752.65 752.61	37+50	749.57 750.31	38+00	747.11 749.66	38+50	747.11 748.90	39+00	744.63 747.74 748.84
-------	------------------	-------	------------------	-------	------------------	-------	------------------	-------	------------------	-------	------------------	-------	------------------	-------	------------------	-------	----------------------------

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PATH PLAN & PROFILE  
 RIVERSIDE DRIVE**

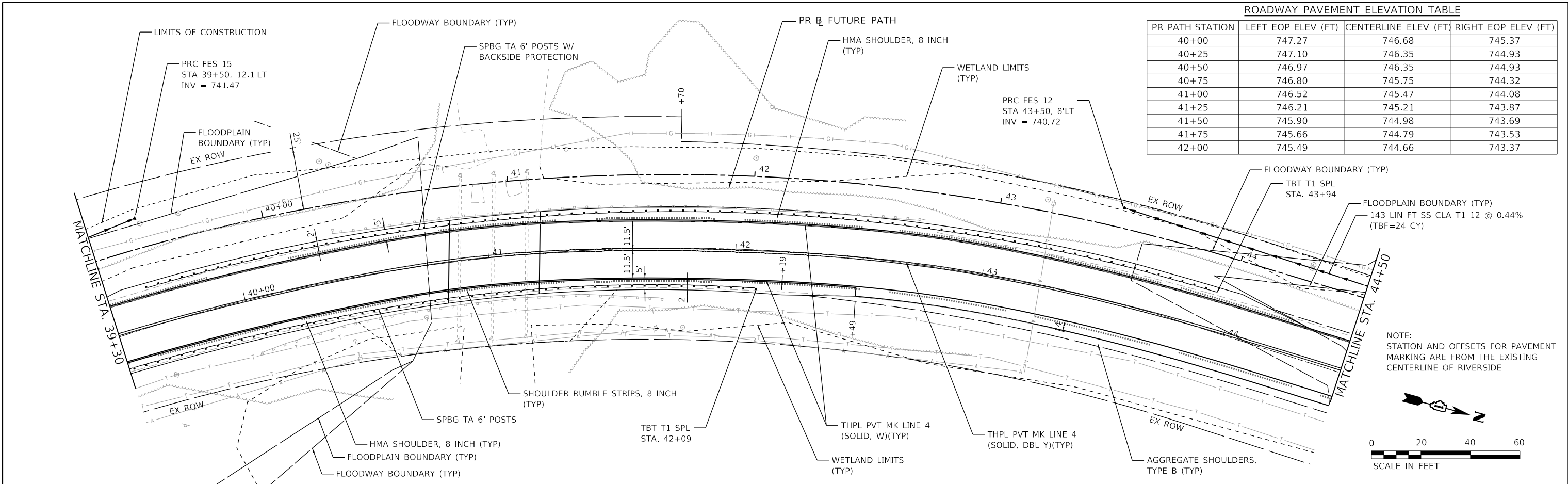
SCALE: 1"=20'    SHEET 5 OF 10 SHEETS    STA. 34+58.00 TO STA. 39+30.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	23
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHORD		
	NO.		

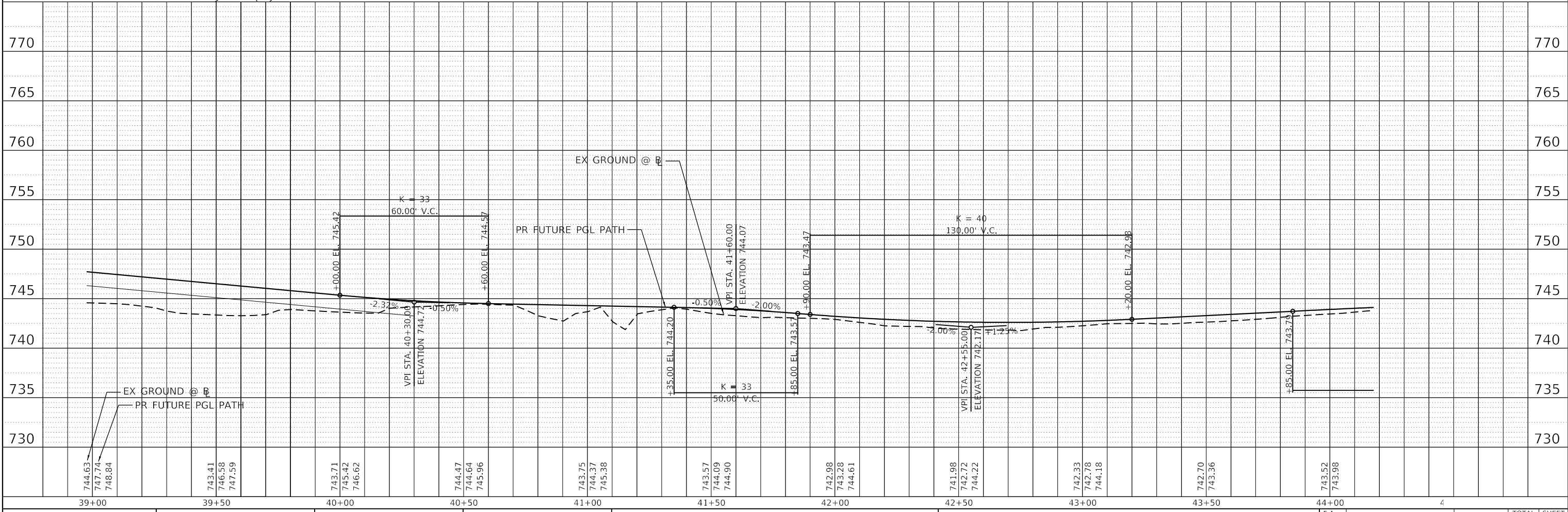
HRG PROJECT NO.: 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-391-PR-F-06.dgn  
 PEN TABLE: penTable.tbl



PR PATH STATION	LEFT EOP ELEV (FT)	CENTERLINE ELEV (FT)	RIGHT EOP ELEV (FT)
40+00	747.27	746.68	745.37
40+25	747.10	746.35	744.93
40+50	746.97	746.35	744.93
40+75	746.80	745.75	744.32
41+00	746.52	745.47	744.08
41+25	746.21	745.21	743.87
41+50	745.90	744.98	743.69
41+75	745.66	744.79	743.53
42+00	745.49	744.66	743.37

NOTE:  
 STATION AND OFFSETS FOR PAVEMENT MARKING ARE FROM THE EXISTING CENTERLINE OF RIVERSIDE

SCALE IN FEET



39+00	39+50	40+00	40+50	41+00	41+50	42+00	42+50	43+00	43+50	44+00
744.63 747.74 748.84	743.41 746.58 747.59	743.71 745.42 746.62	744.47 744.64 745.96	743.75 744.37 745.38	743.57 744.09 744.90	742.98 743.28 744.61	741.98 742.72 744.22	742.33 742.78 744.18	742.70 743.36	743.52 743.98

HRGreen.com  
 Micro Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PATH PLAN & PROFILE  
 RIVERSIDE DRIVE  
 SCALE: 1"=20'  
 SHEET 6 OF 10 SHEETS  
 STA. 39+30.00 TO STA. 44+50.00

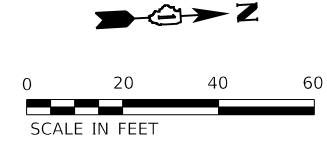
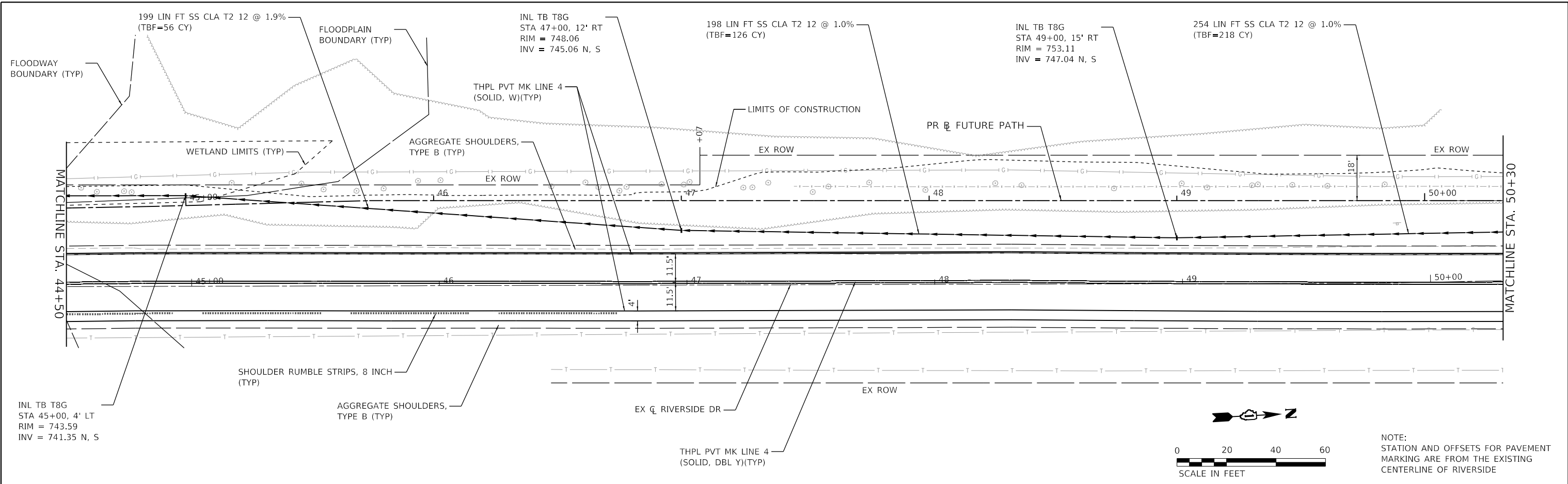
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	24
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	



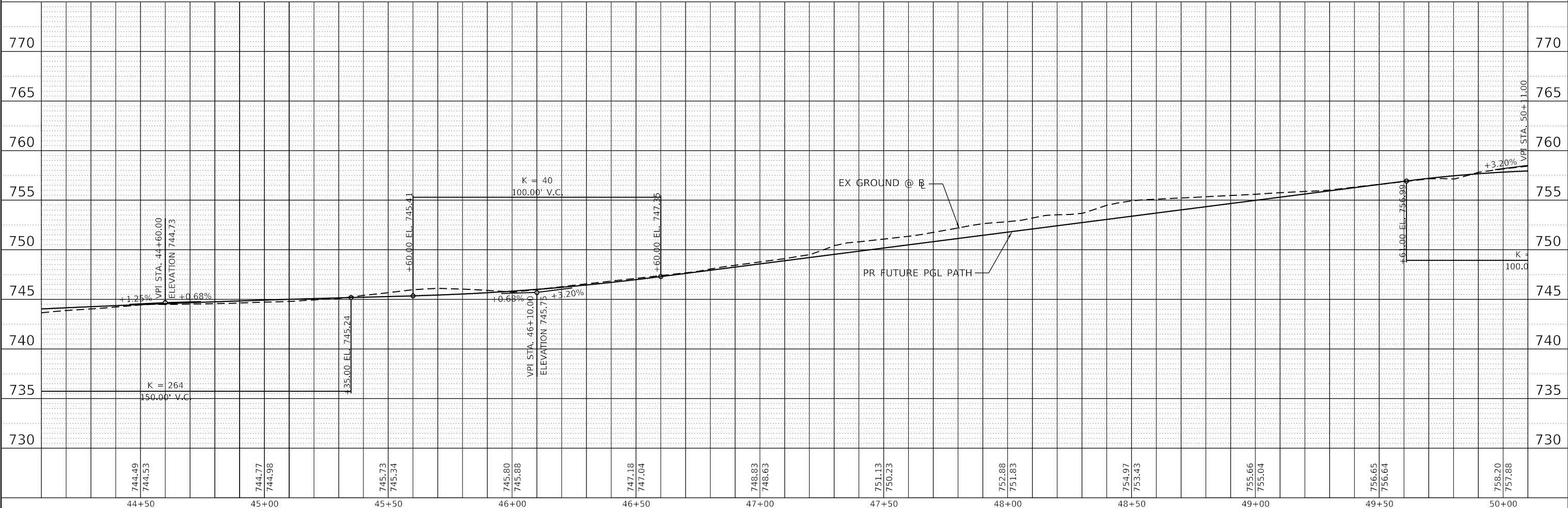
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	
	NO.	
	NO.	

HRG PROJECT NO.: 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-571-p1pr-f-01.dgn  
 PEN TABLE: p1pr.tbl



NOTE:  
 STATION AND OFFSETS FOR PAVEMENT  
 MARKING ARE FROM THE EXISTING  
 CENTERLINE OF RIVERSIDE



744.49	744.53	744.77	744.98	745.73	745.34	745.80	745.88	747.18	747.04	748.83	748.63	751.13	750.23	752.88	751.83	754.97	753.43	755.66	755.04	756.65	756.64	758.20	757.88
44+50		45+00		45+50		46+00		46+50		47+00		47+50		48+00		48+50		49+00		49+50		50+00	

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PATH PLAN & PROFILE  
 RIVERSIDE DRIVE**

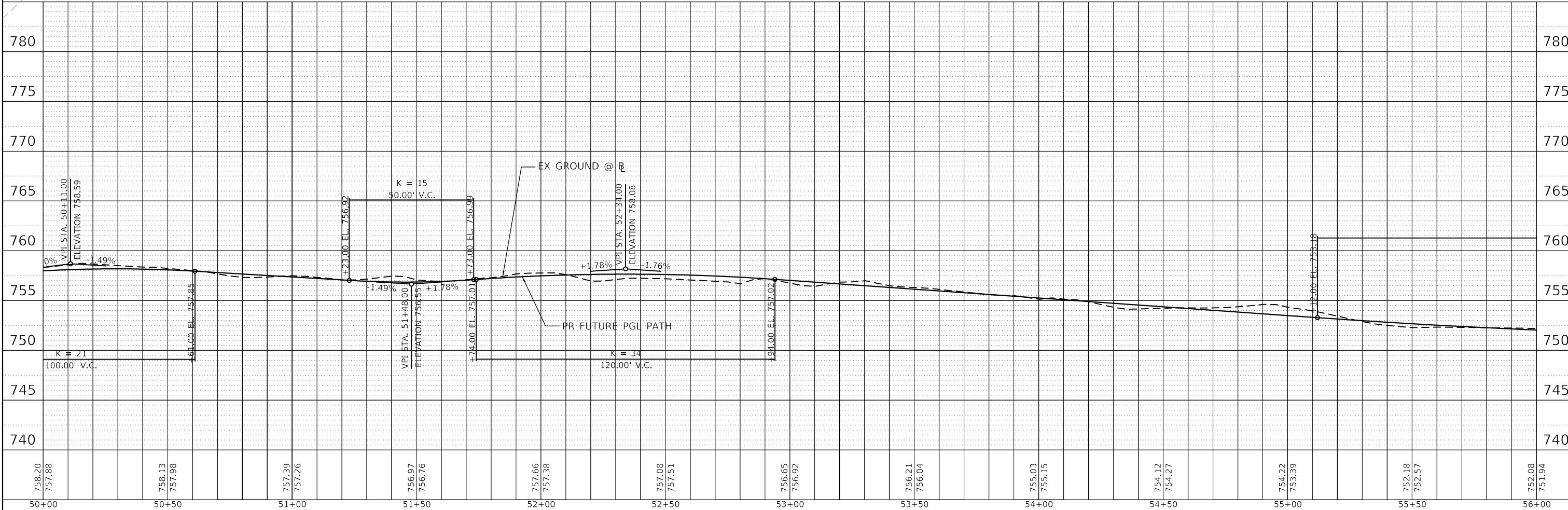
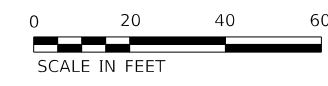
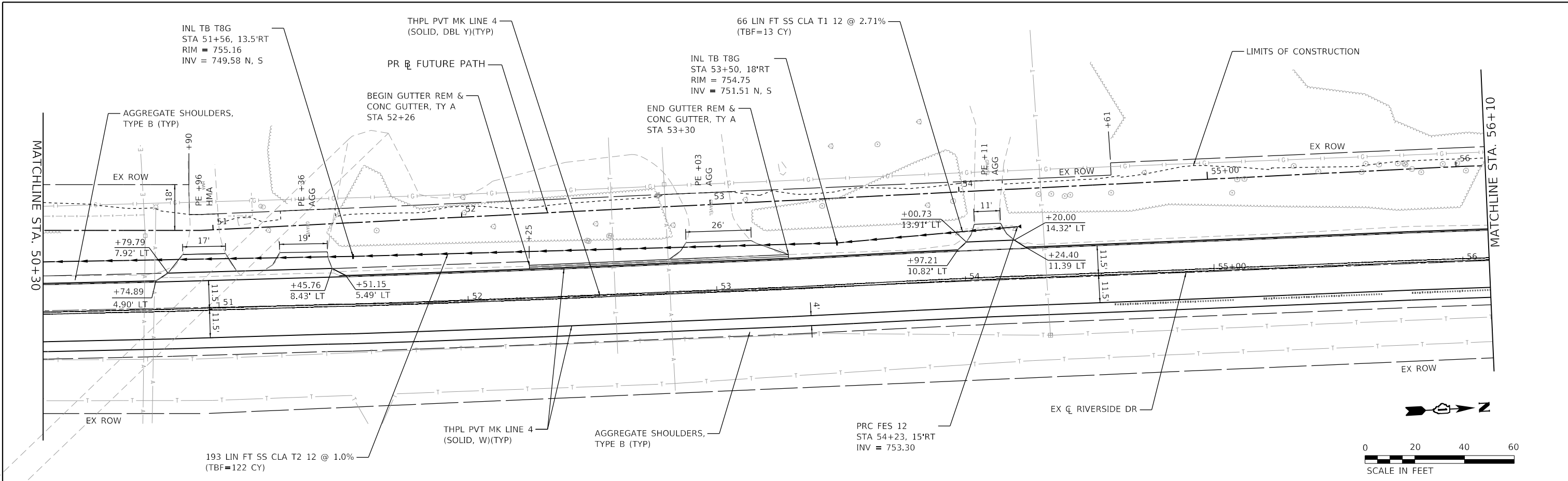
SCALE: 1"=20'    SHEET 7 OF 10 SHEETS    STA. 44+50.00 TO STA. 50+30.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	25
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

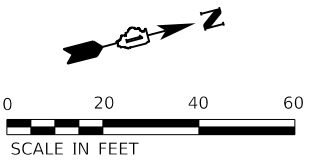
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	CARD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

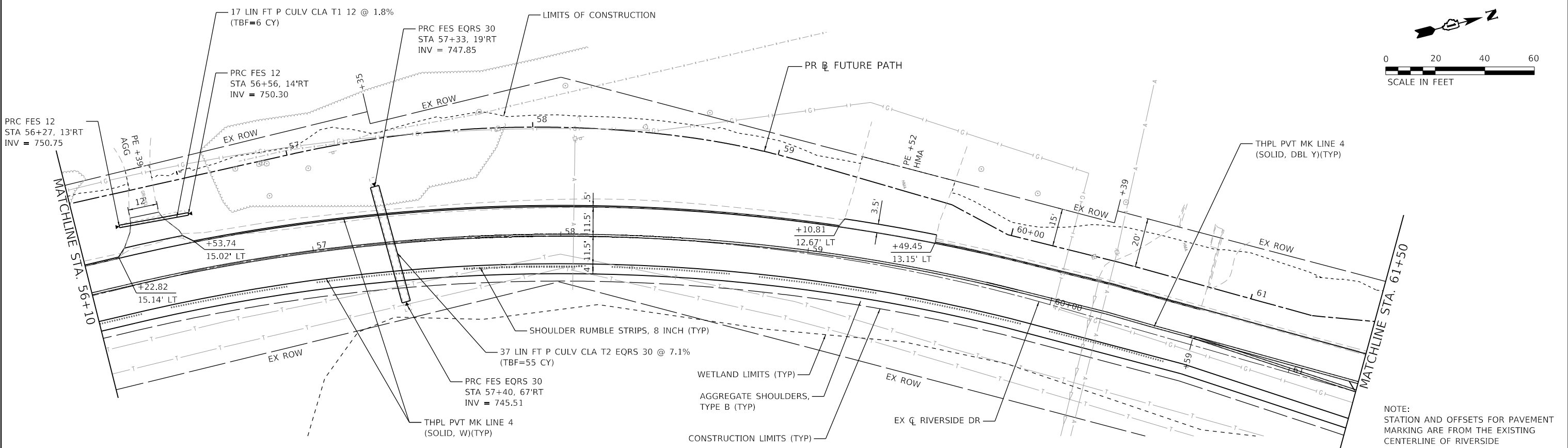
HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-00-00-00-00-00.dgn  
 PEN TABLE: pen.tbl



	USER NAME = jstrzal DESIGNED - MLZ DRAWN - DMS CHECKED - JJS PLOT DATE = 8/21/2023	REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX REVISED - XX/XX/XXXX	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PATH PLAN &amp; PROFILE</b> <b>RIVERSIDE DRIVE</b>		F.A. RTE. 156 SECTION 20-00016-00-RS COUNTY MCHENRY CONTRACT NO. 61168	TOTAL SHEETS 87 SHEET NO. 26
	SCALE: 1"=20' SHEET 8 OF 10 SHEETS STA. 50+30.00 TO STA. 56+10.00	ILLINOIS FED. AID PROJECT					

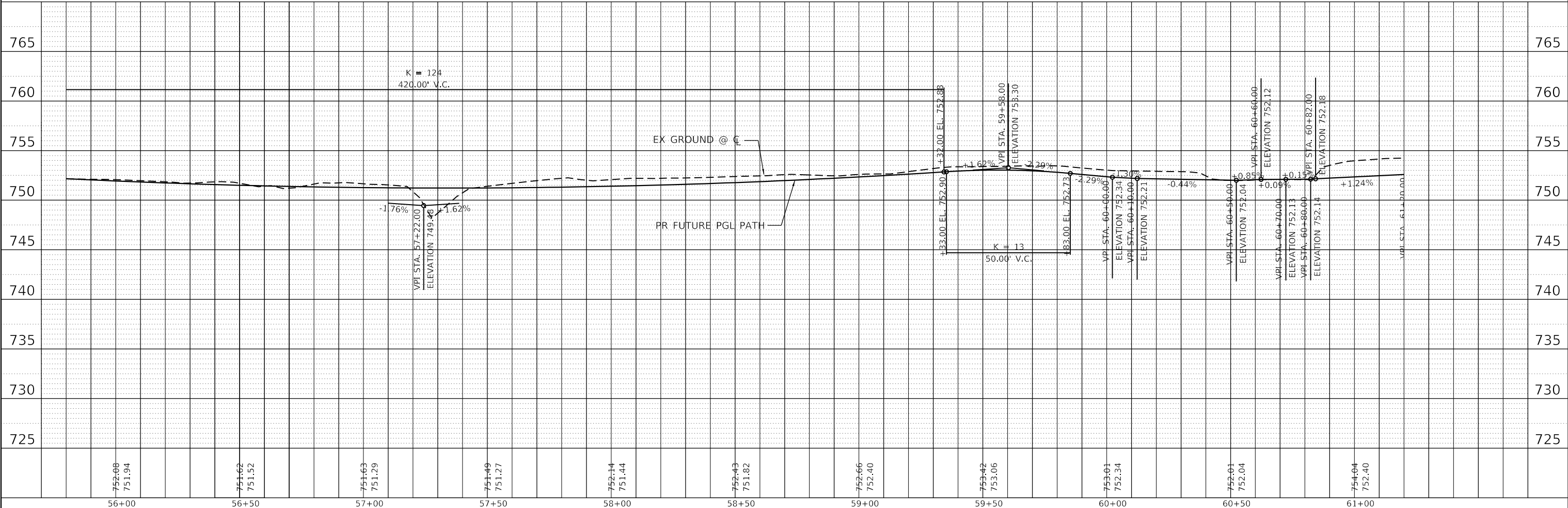


PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO. _____	
	FILE NAME	
	DATE	



NOTE:  
STATION AND OFFSETS FOR PAVEMENT  
MARKING ARE FROM THE EXISTING  
CENTERLINE OF RIVERSIDE

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	FILE NAME	
	DATE	



HRG PROJECT NO. 21700  
HRG PROJ. CONTACT:  
FILE NAME: 21700-571-p1pr-f-03.dgn  
PEN TABLE: p1pr.tbl

**HRGreen**  
HRGreen.com  
Micro Professional Design Firm  
#184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

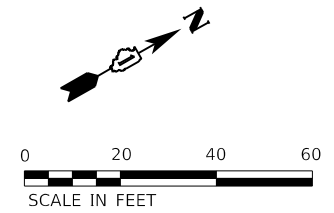
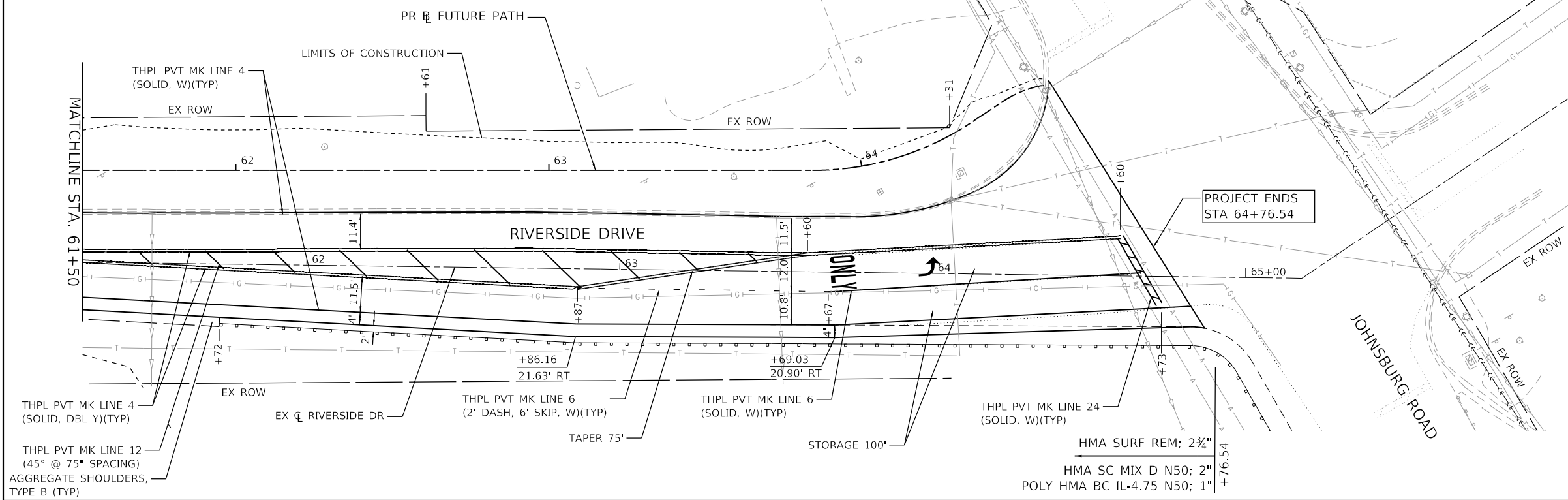
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PATH PLAN & PROFILE	
RIVERSIDE DRIVE	
SCALE: 1"=20'	SHEET 9 OF 10 SHEETS
STA. 56+10.00	TO STA. 61+50.00

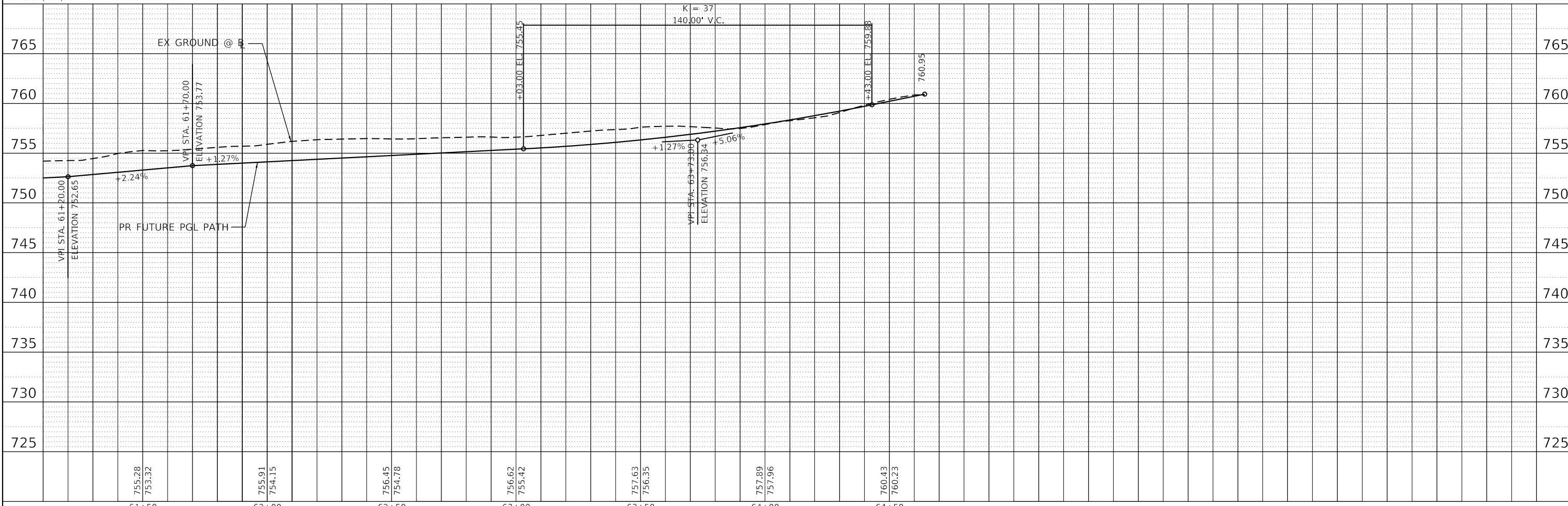
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	27
CONTRACT NO. 61168				
ILLINOIS FED. AID PROJECT				

NOTE:  
STATION AND OFFSETS FOR PAVEMENT  
MARKING ARE FROM THE EXISTING  
CENTERLINE OF RIVERSIDE

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	CARD FILE NAME	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



HRG PROJECT NO.: 21700  
HRG PROJ. CONTACT:  
FILE NAME: 21700-217-217-217-217-217.dgn  
PEN TABLE: 21700.tbl



USER NAME = jstrzal  
DESIGNED - MLZ  
DRAWN - DMS  
CHECKED - JJS  
DATE -  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 7/10/2023

REVISOR - XX/XX/XXXX  
REVISOR - XX/XX/XXXX  
REVISOR - XX/XX/XXXX  
REVISOR - XX/XX/XXXX

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION


PATH PLAN & PROFILE  
RIVERSIDE DRIVE

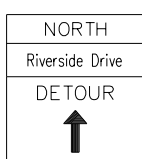
SCALE: 1"=20' SHEET 10 OF 10 SHEETS STA. 61+50.00 TO STA. 64+51.65

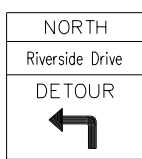
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	28
CONTRACT NO. 61168				

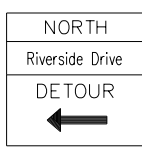
ILLINOIS FED. AID PROJECT

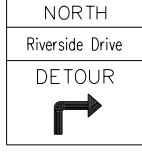
**SIGN LEGEND**


1  W20-2(0)-4848

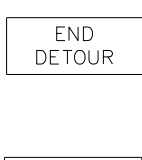
2  M3-1(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9 (0)-3024

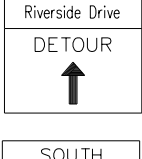
3  M3-1(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9L(0)-3024

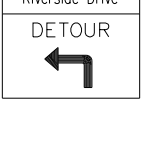
4  M3-1(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9L(0)-3024

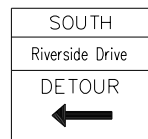
5  M3-1(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9R(0)-3024

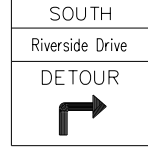
6  M3-1(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9R(0)-3024

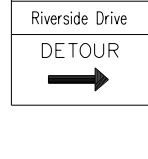
7  4-8A-2418

8  M3-3(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9(0)-3024


9  M3-3(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9L(0)-3024

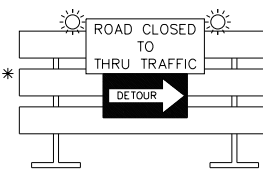
10  M3-3(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9L(0)-3024

11  M3-3(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9R(0)-3024

12  M3-3(0)-2412 SPECIAL 24"X18" VARIABLE 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND M4-9R(0)-3024

13 OMITTED

14  W20-3(0)-4848

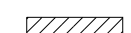
16R  R11-4-6030 M4-10R-4818


17  (1) (2)


\*\* NOTES:


- OVERLAY PANEL (1) TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION (I.E. "FROM APR 2").
- OVERLAY PANEL (2) TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR (I.E. "THROUGH JULY". OMIT THE DATE ON PANEL (2); PROVIDE MONTH ONLY).
- SIGNS ARE TO BE PLACED NEAR THE LIMITS OF THE ROAD CLOSURE - ONE IN EACH DIRECTION. THESE SIGNS SHALL BE PAID FOR AS 'TEMPORARY INFORMATION SIGNING'.


**DETOUR LEGEND**

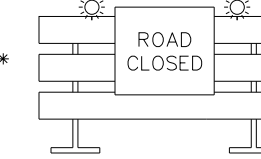
 DETOUR ROUTE

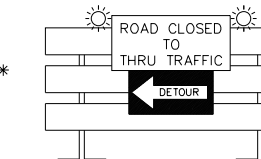
 DETOUR GUIDE SIGN

 BARRICADE, TYPE III

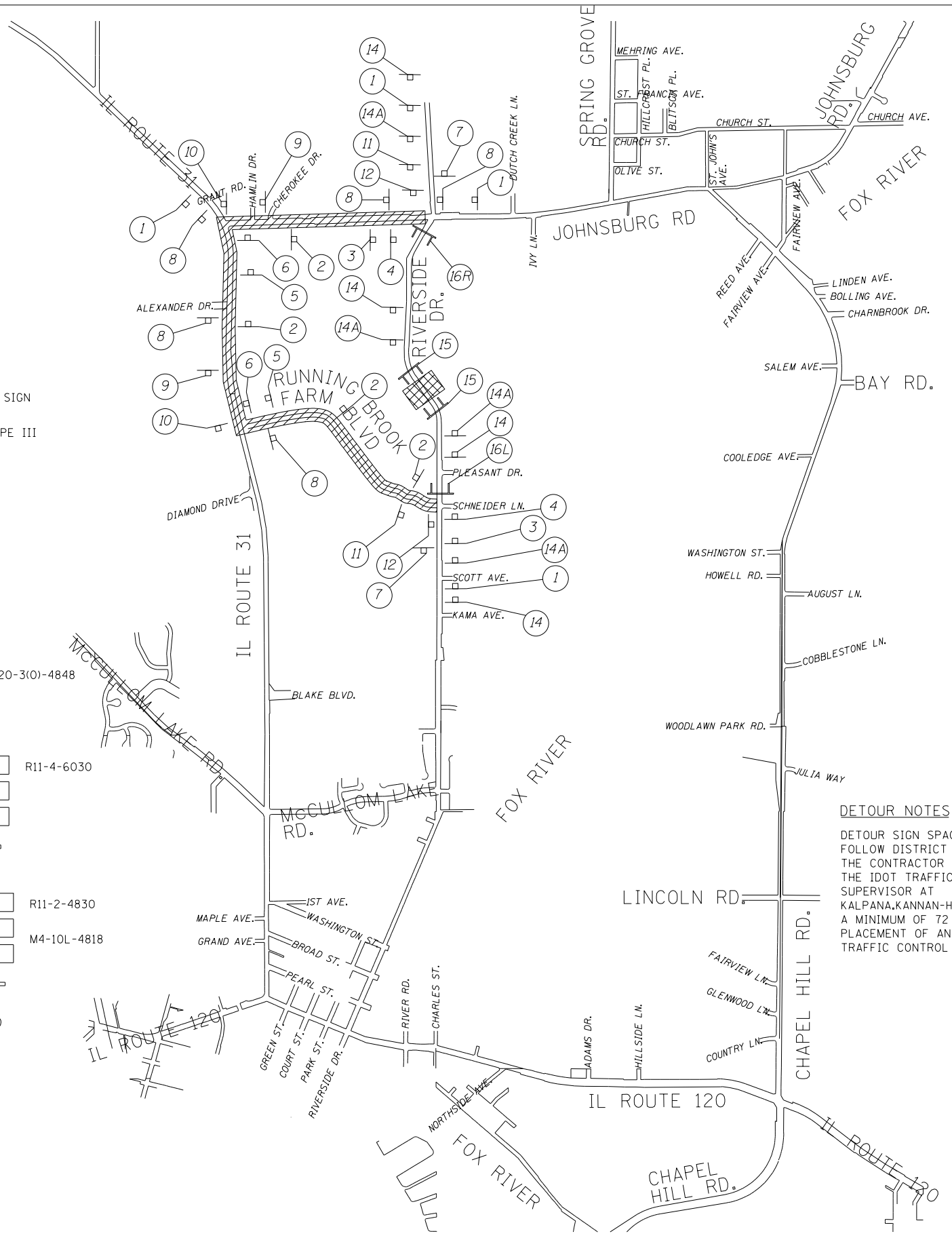
 WORK ZONE

14A  W20-3(0)-4848

15  R11-4-6030

16L  R11-2-4830 M4-10L-4818

\* NOTE: SIGNS ARE TO BE MOUNTED ABOVE BARRICADE RAILS.



**DETOUR NOTES**

DETOUR SIGN SPACING SHALL FOLLOW DISTRICT DETAIL TC-21. THE CONTRACTOR MUST CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS PRIOR TO PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

HRG PROJECT NO. 2/1700  
 HRG PROJ. CONTACT:  
 FILE NAME: 2/1700-SRT-detour.dgn  
 PEN TABLE: 1/16/2023.tbl

 HRGreen.com  
 Micro Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
PLOT SCALE = 2000.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN  
 RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

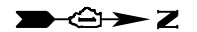
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	McHENRY	87	29
CONTRACT NO. 61168				
ILLINOIS FED. AID PROJECT				

PROJECT BEGINS  
STA 10+29

MATCHLINE STA. 16+20

EX ROW

EX ROW



LEGEND	
	INLET FILTERS (EA)
	PERIMETER EROSION BARRIER (FT)
	TEMPORARY DITCH CHECK (FT)
	SEEDING, CLASS 2A (ACRE) TOPSOIL, FURNISH AND PLACE, 4" (SQ YD) EROSION CONTROL BLANKET (NETLESS) (SQ YD)
	TREE TRUNK PROTECTION AND TREE ROOT PRUNING

NOTE:  
TEMPORARY SEEDING REQUIRED ON ALL DISTURBED  
SURFACES AS DIRECTED BY THE ENGINEER.

RUNNING BROOK  
FARM BLVD

WETLAND LIMITS (TYP)

PR & PATH

EX ROW

EX ROW

ONLY

ONLY

ONLY

MATCHLINE STA. 21+90

SCHNEIDER LN

EX ROW



HRG PROJECT NO. 21/700  
HRG PROJ CONTACT:  
FILE NAME: 21/700-SR-Ero-01.dgn  
PEN TABLE: 21/700.tbl



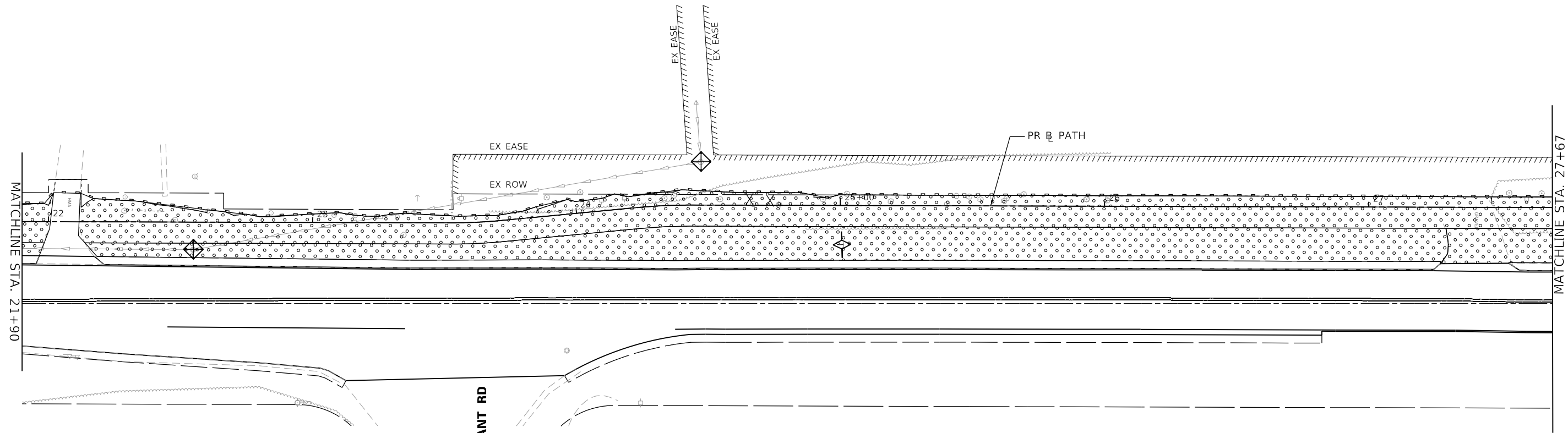
USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN  
RIVERSIDE DRIVE

SCALE: 1"=20' SHEET 1 OF 5 SHEETS STA. 10+29.00 TO STA. 21+90.00

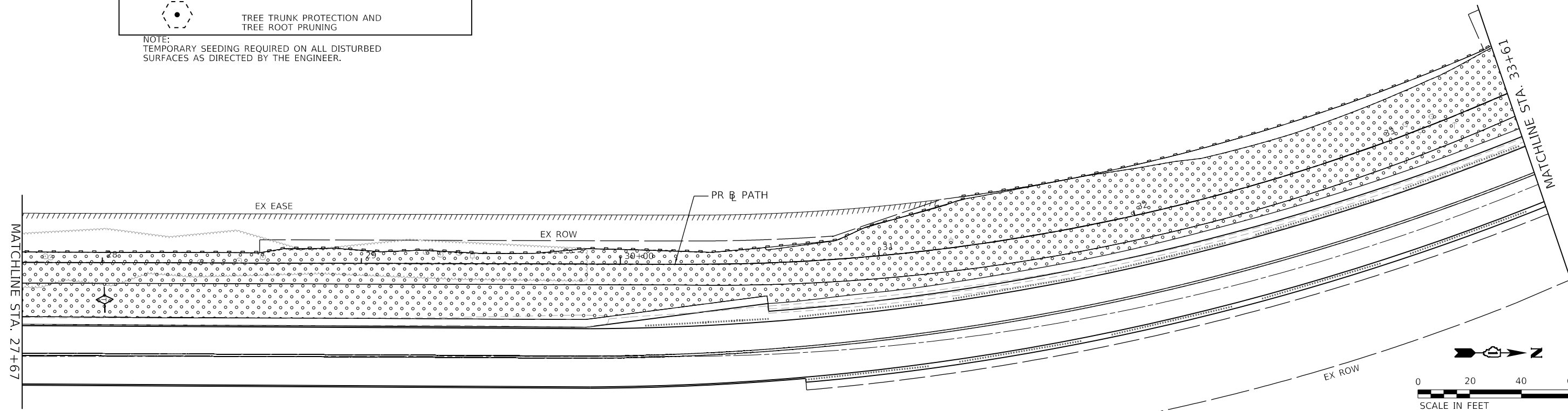
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MC HENRY	87	30
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				



**LEGEND**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- SEEDING, CLASS 2A (ACRE)  
TOPSOIL, FURNISH AND PLACE, 4" (SQ YD)  
EROSION CONTROL BLANKET (NETLESS) (SQ YD)
- TREE TRUNK PROTECTION AND  
TREE ROOT PRUNING

NOTE:  
TEMPORARY SEEDING REQUIRED ON ALL DISTURBED  
SURFACES AS DIRECTED BY THE ENGINEER.



HRG PROJECT NO: 21700  
 HRG PROJ CONTACT:  
 FILE NAME: 21700-SR1-Ero-02.dgn  
 PEN TABLE: 21700.tbl

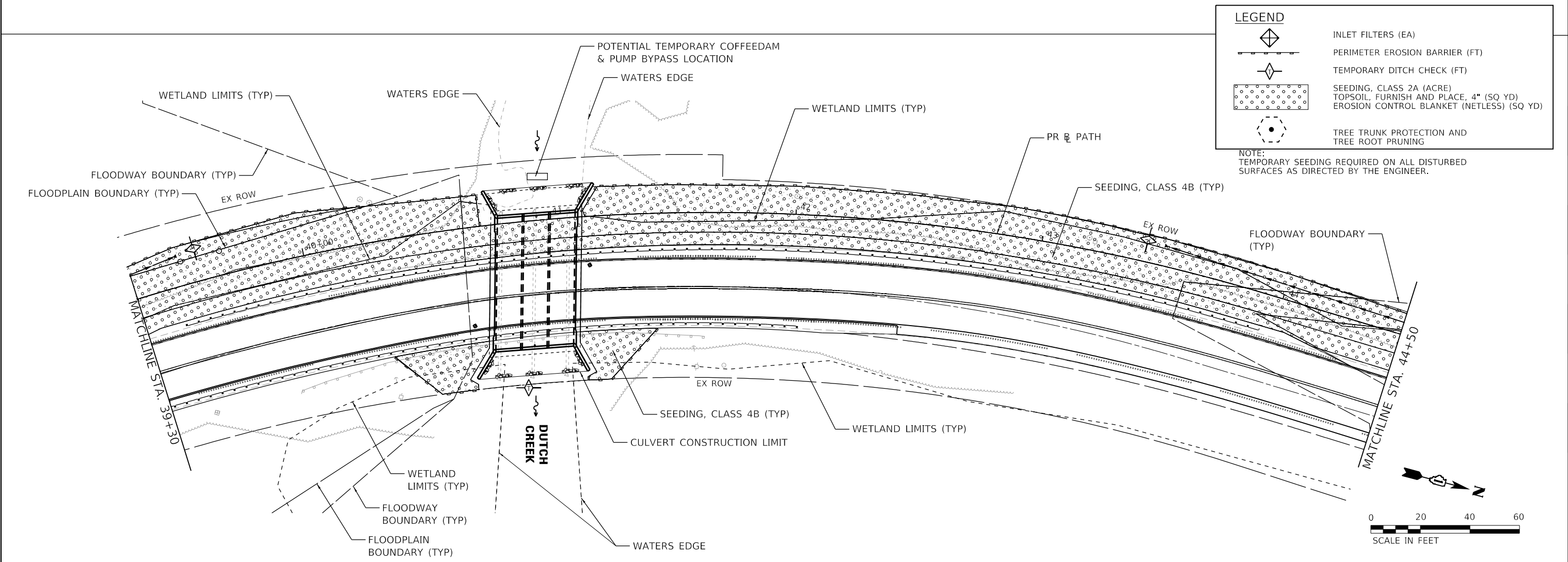
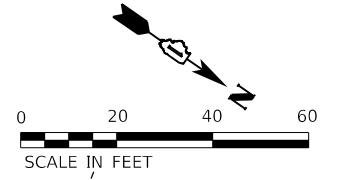
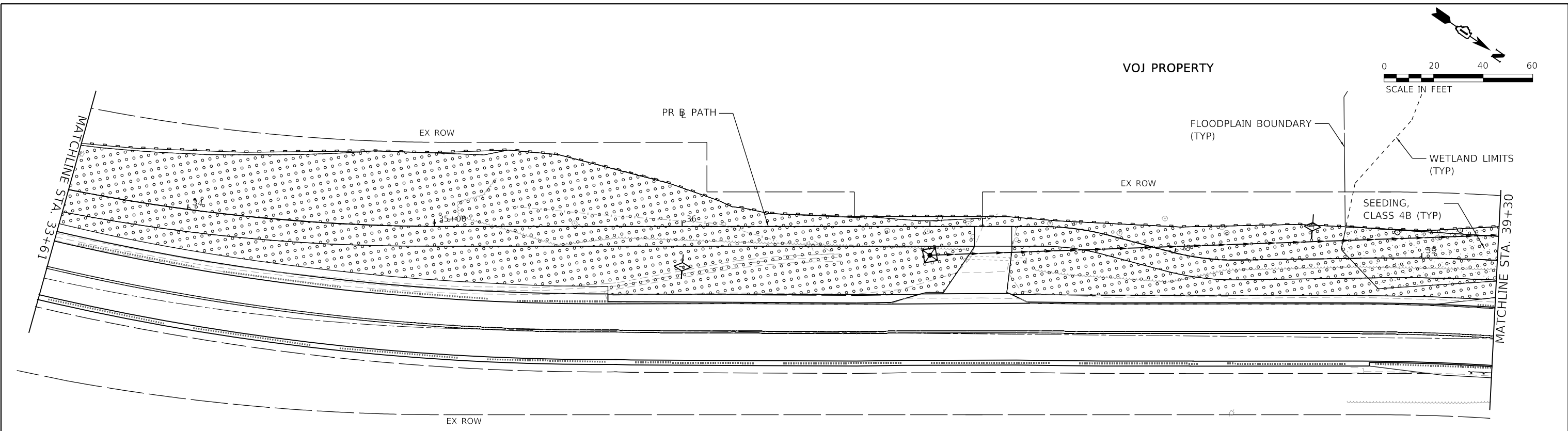


USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED -	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL PLAN</b>	
<b>RIVERSIDE DRIVE</b>	
SCALE: 1"=20'	SHEET 2 OF 5 SHEETS
STA. 21+90.00	TO STA. 33+61.00

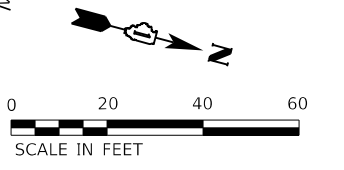
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	31
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				



**LEGEND**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- SEEDING, CLASS 2A (ACRE)
- 
- EROSION CONTROL BLANKET (NETLESS) (SQ YD)
- TREE TRUNK PROTECTION AND TREE ROOT PRUNING

NOTE:  
TEMPORARY SEEDING REQUIRED ON ALL DISTURBED SURFACES AS DIRECTED BY THE ENGINEER.



HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-SHT-Ero-03.dgn  
 PEN TABLE: 1/18/2023.tbl



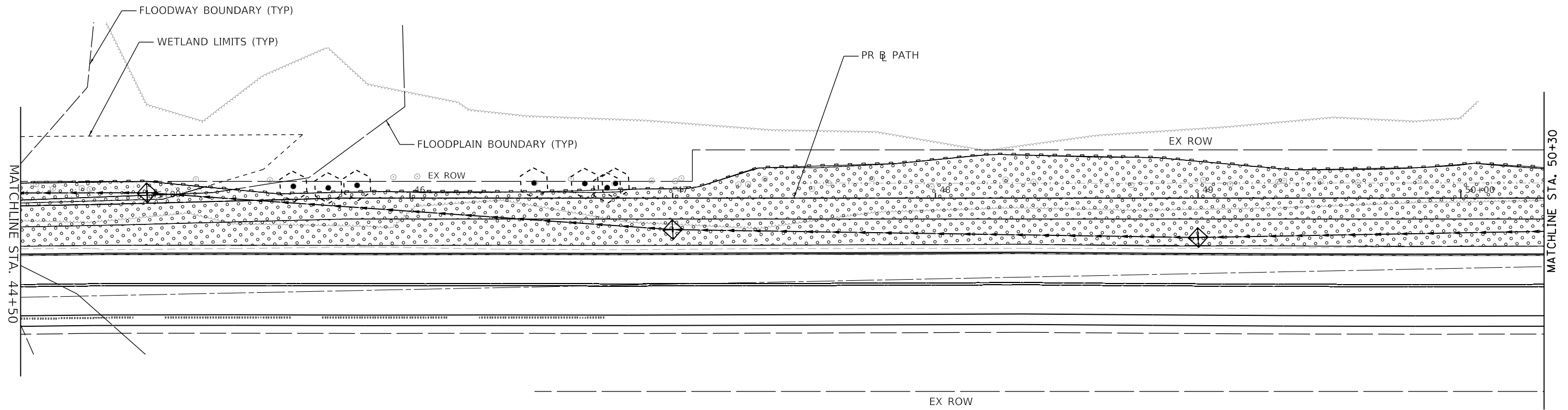
USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/18/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL PLAN</b>		
<b>RIVERSIDE DRIVE</b>		
SCALE: 1"=20'	SHEET 3 OF 5 SHEETS	STA. 33+61.00 TO STA. 44+50.00

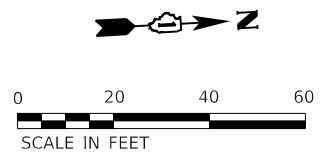
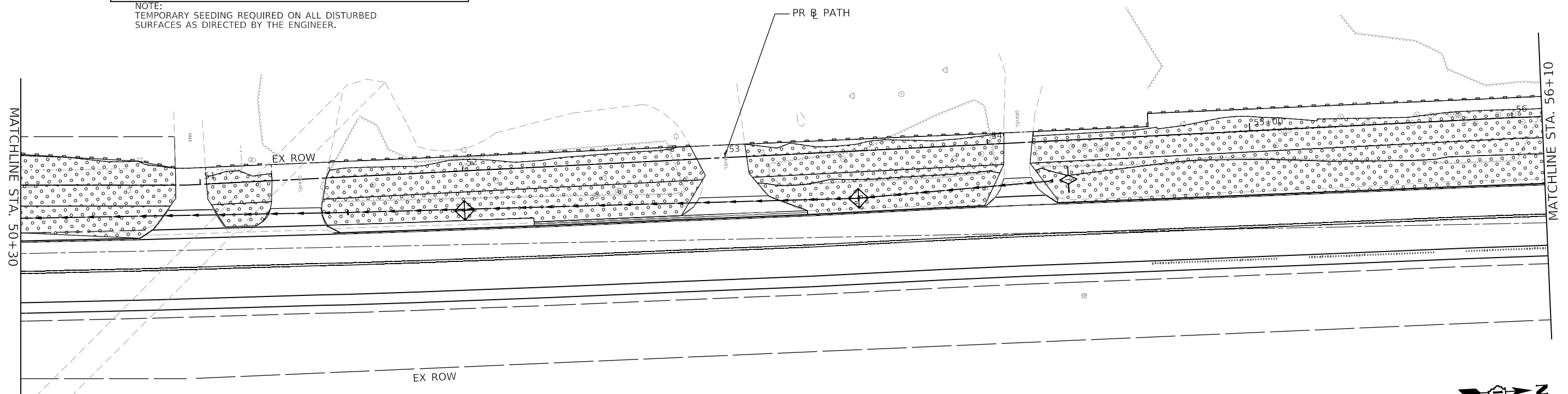
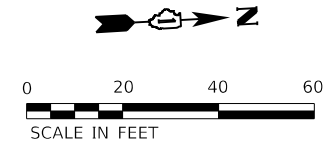
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	32
			CONTRACT NO.	61168
ILLINOIS FED. AID PROJECT				





LEGEND	
	INLET FILTERS (EA)
	PERIMETER EROSION BARRIER (FT)
	TEMPORARY DITCH CHECK (FT)
	SEEDING, CLASS 2A (ACRE)
	TOPSOIL, FURNISH AND PLACE, 4" (SQ YD)
	EROSION CONTROL BLANKET (NETLESS) (SQ YD)
	TREE TRUNK PROTECTION AND TREE ROOT PRUNING

NOTE:  
TEMPORARY SEEDING REQUIRED ON ALL DISTURBED SURFACES AS DIRECTED BY THE ENGINEER.



HRG PROJECT NO. 21700  
 HRG PROJ. CONTACT:  
 FILE NAME: 21700-571-Ero-04.dgn  
 PEN TABLE: 10/10/2023  
 PEN TABLE: 10/10/2023



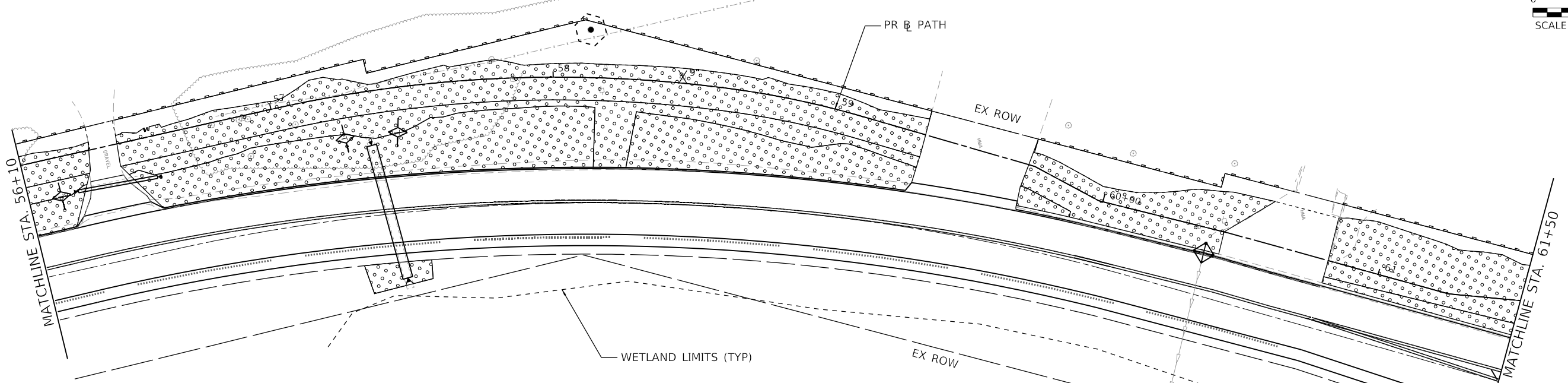
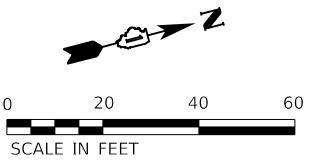
USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 40,0000 ' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN	
RIVERSIDE DRIVE	
SCALE: 1"=20'	SHEET 4 OF 5 SHEETS
STA. 44+40.00	TO STA. 56+10.00

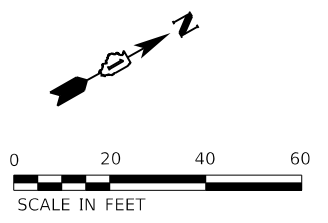
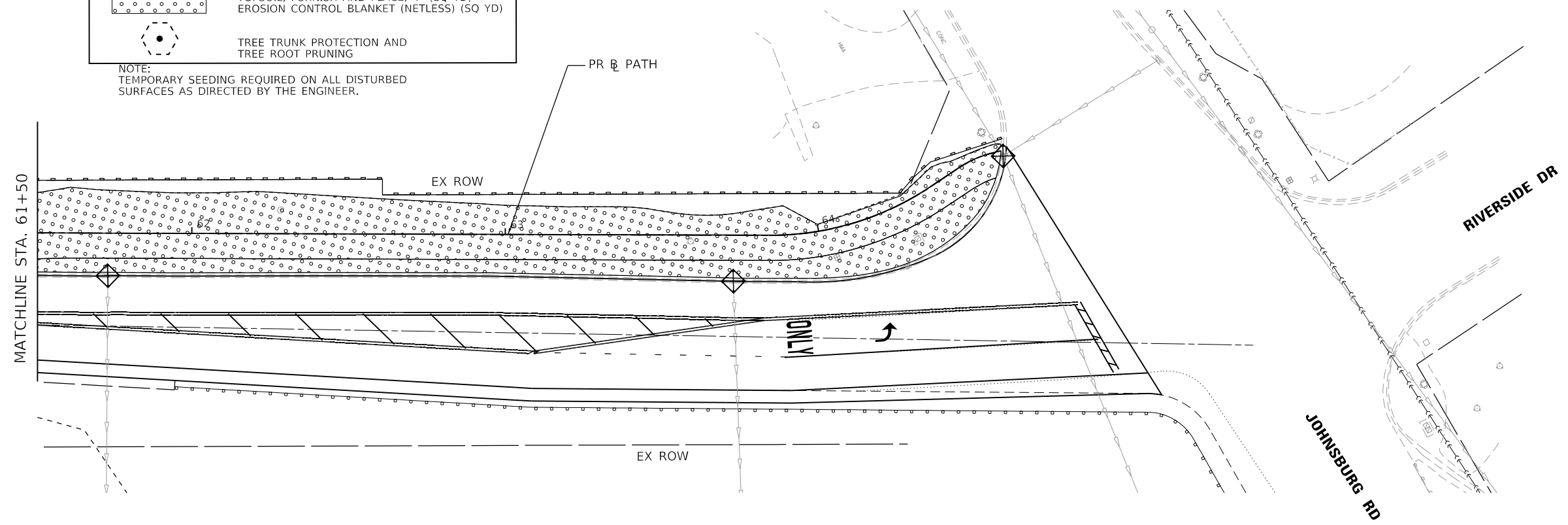
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	33
			CONTRACT NO. 61168	

ILLINOIS FED. AID PROJECT



LEGEND	
	INLET FILTERS (EA)
	PERIMETER EROSION BARRIER (FT)
	TEMPORARY DITCH CHECK (FT)
	SEEDING, CLASS 2A (ACRE)
	TOPSOIL, FURNISH AND PLACE, 4" (SQ YD)
	EROSION CONTROL BLANKET (NETLESS) (SQ YD)
	TREE TRUNK PROTECTION AND TREE ROOT PRUNING

NOTE:  
TEMPORARY SEEDING REQUIRED ON ALL DISTURBED SURFACES AS DIRECTED BY THE ENGINEER.



HRG PROJECT NO. 2/1700  
 HRG PROJ. CONTACT:  
 FILE NAME: 2/1700-SR1-Ero-05.dgn  
 PEN TABLE: 1/16/2023

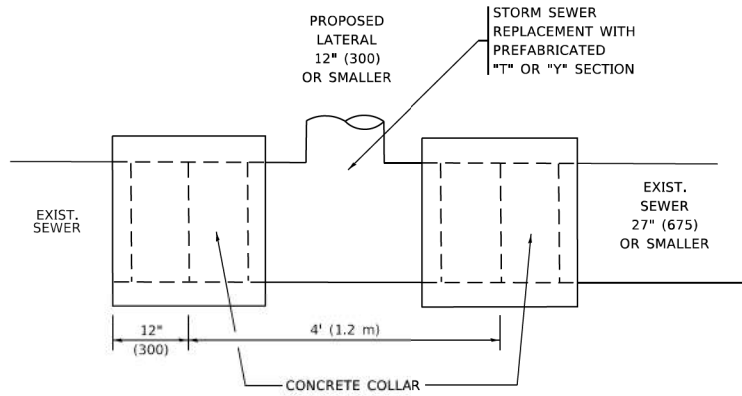


USER NAME = jstrzal	DESIGNED - JJS	REVISED - XX/XX/XXXX
PLOT SCALE = 40.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

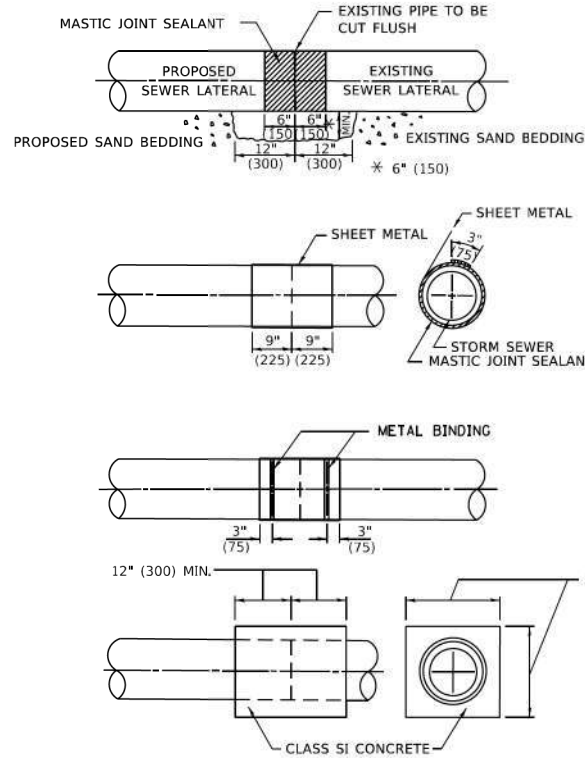
EROSION CONTROL PLAN	
RIVERSIDE DRIVE	
SCALE: 1"=20'	SHEET 5 OF 5 SHEETS STA. 56+10.00 TO STA. 64+60.59

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	34
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				



**DETAIL "A"**

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

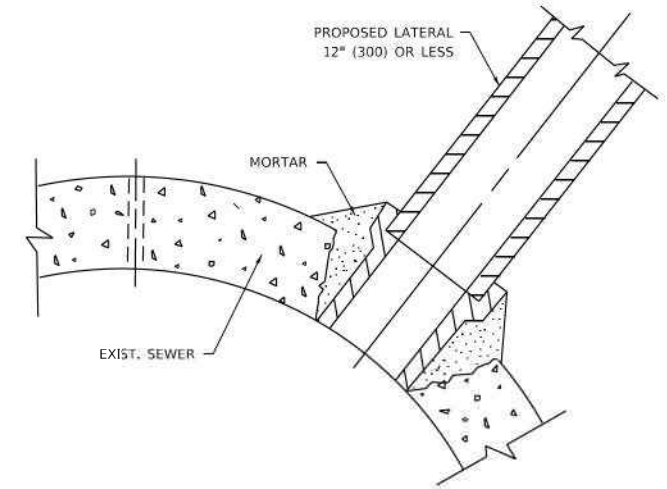


**DETAIL "B"**

CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



**DETAIL "C"**

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES:**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

1. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
2. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

1. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
2. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
3. REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
4. CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

\* ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default FILE: 200116-00-R5-01.dwg PROJECT: 200116-00-R5-01.dwg

USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94
	DRAWN -	REVISED - R. SHAH 10-25-94
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. SHAH 06-12-96
PLOT DATE = 11/18/2022	DATE - 07-25-90	REVISED - K. SMITH 11-18-22

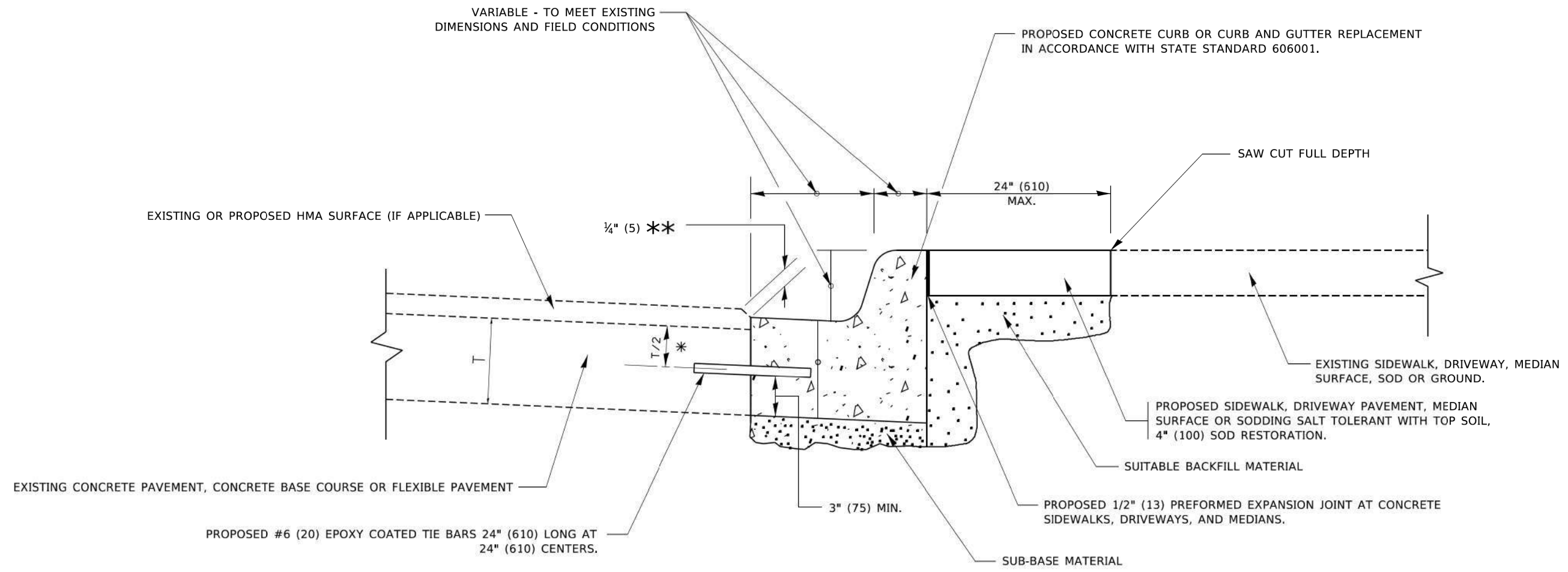
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER  
CONNECTION TO EXISTING SEWER

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	35
BD500-01 (BD-07)			CONTRACT NO. 61J68	
ILLINOIS FED. AID PROJECT				





- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default  
 FILE: \\mchery-prod\p16016\DOT\Documents\DOT\_Offices\District 1\Projects\151227-24\CAD\Drawn\CAD\Sheets\1524.dgn

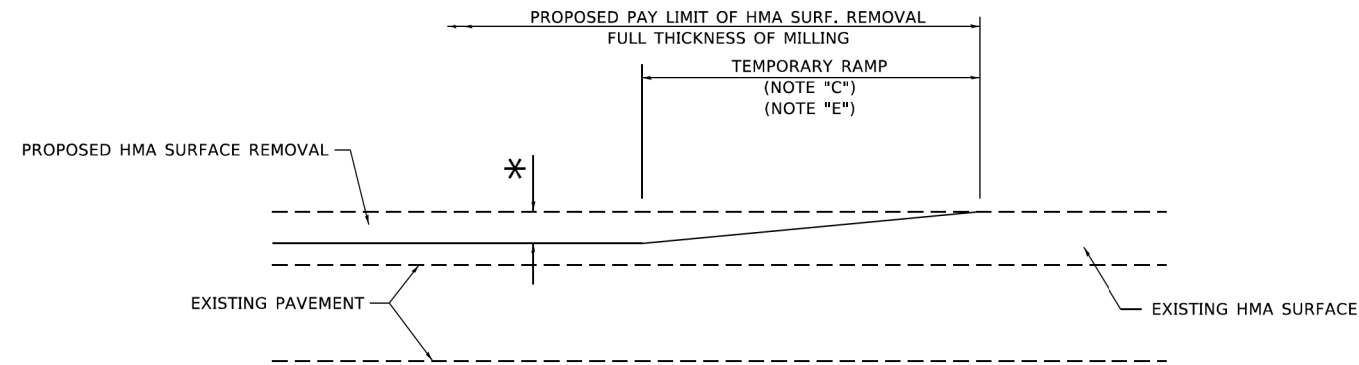
USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER  
REMOVAL AND REPLACEMENT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

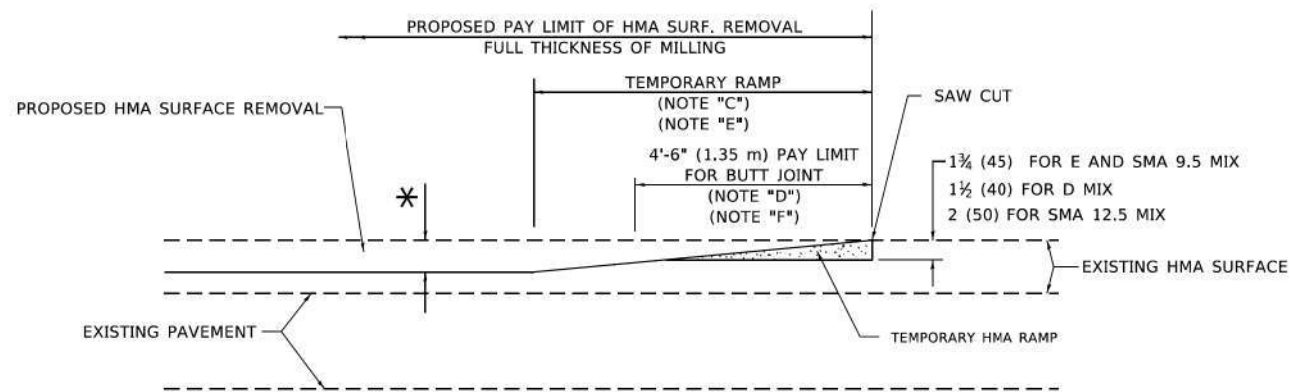
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	37
<b>BD600-06 (BD-24)</b>			<b>CONTRACT NO. 61J68</b>	
ILLINOIS FED. AID PROJECT				



**MILLED TEMPORARY RAMP**

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

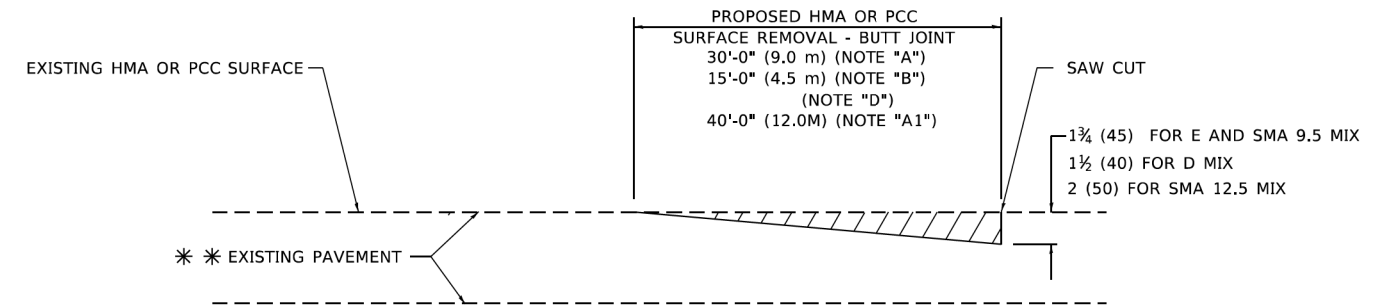


**HMA CONSTRUCTED TEMPORARY RAMP**

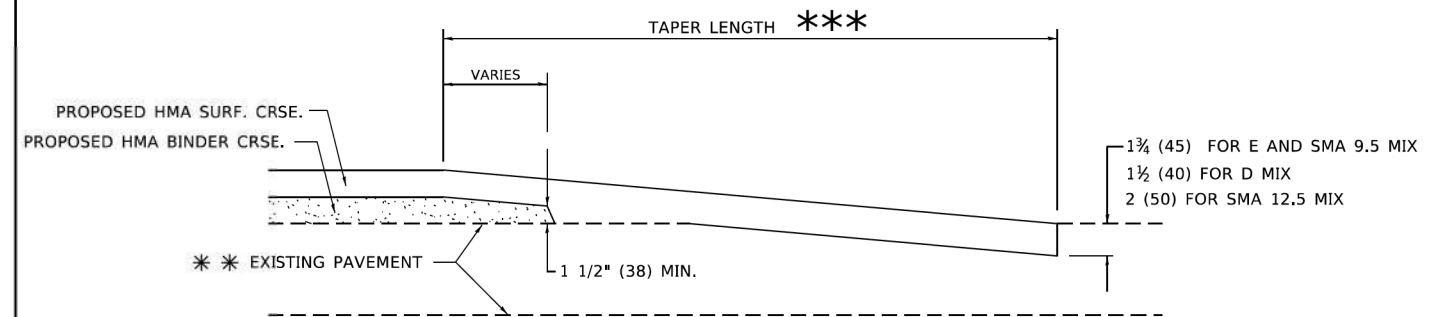
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

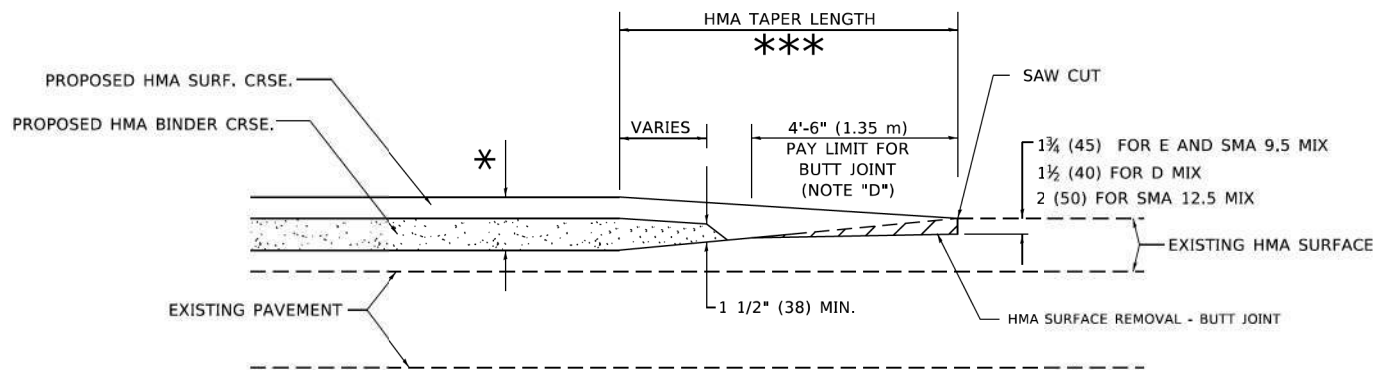
**GENERAL NOTES**

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT**

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

MODEL: Default  
FILE: 11/18/2022 11:00:00 AM  
PROJECT: I:\Projects\11182022\11182022-2\11182022-CAD\Drawings\CAD\Drawings\11182022.dgn

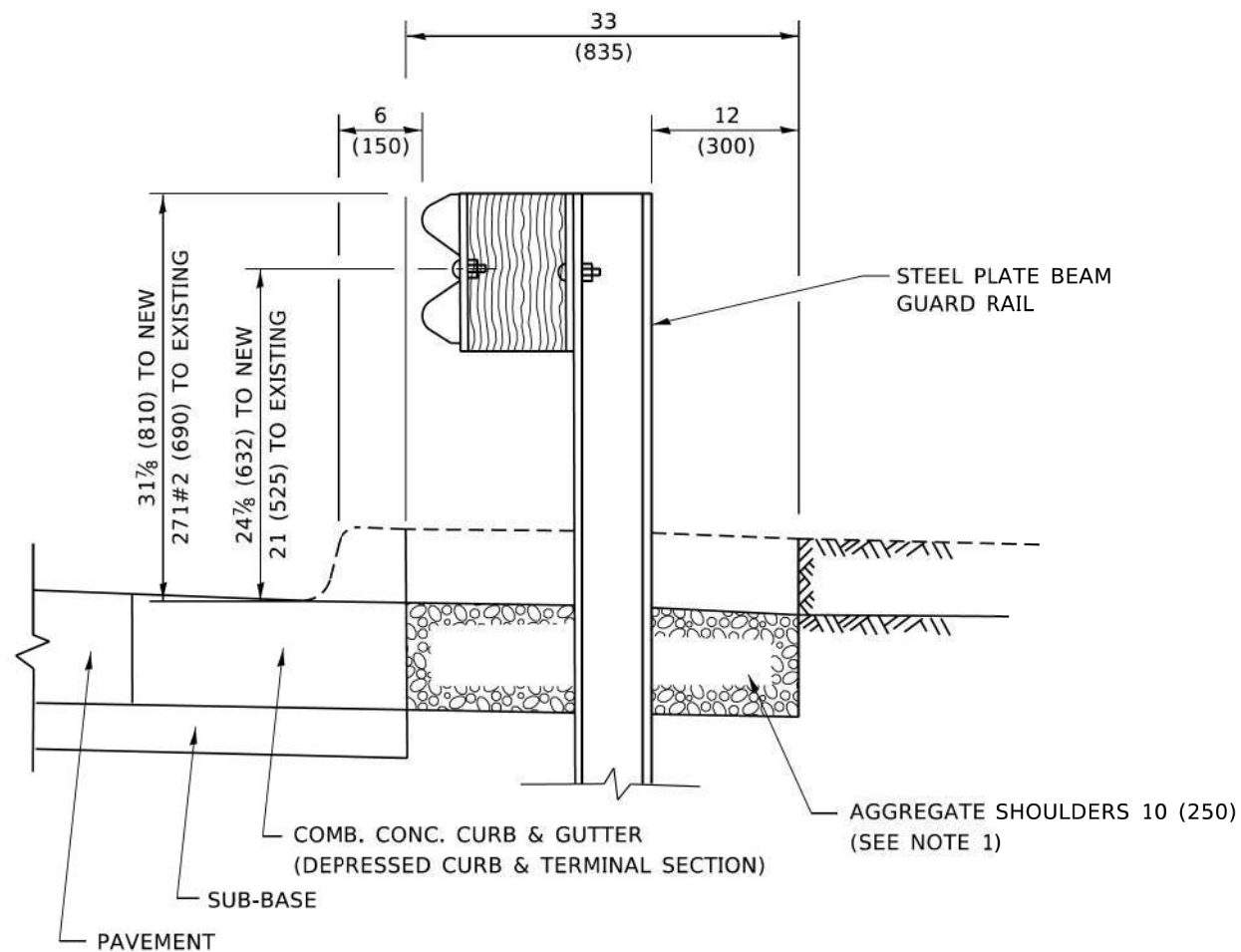
USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND HMA TAPER DETAILS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	38
<b>BD400-05 BD-32</b>		CONTRACT NO. 61J68		
ILLINOIS FED. AID PROJECT				

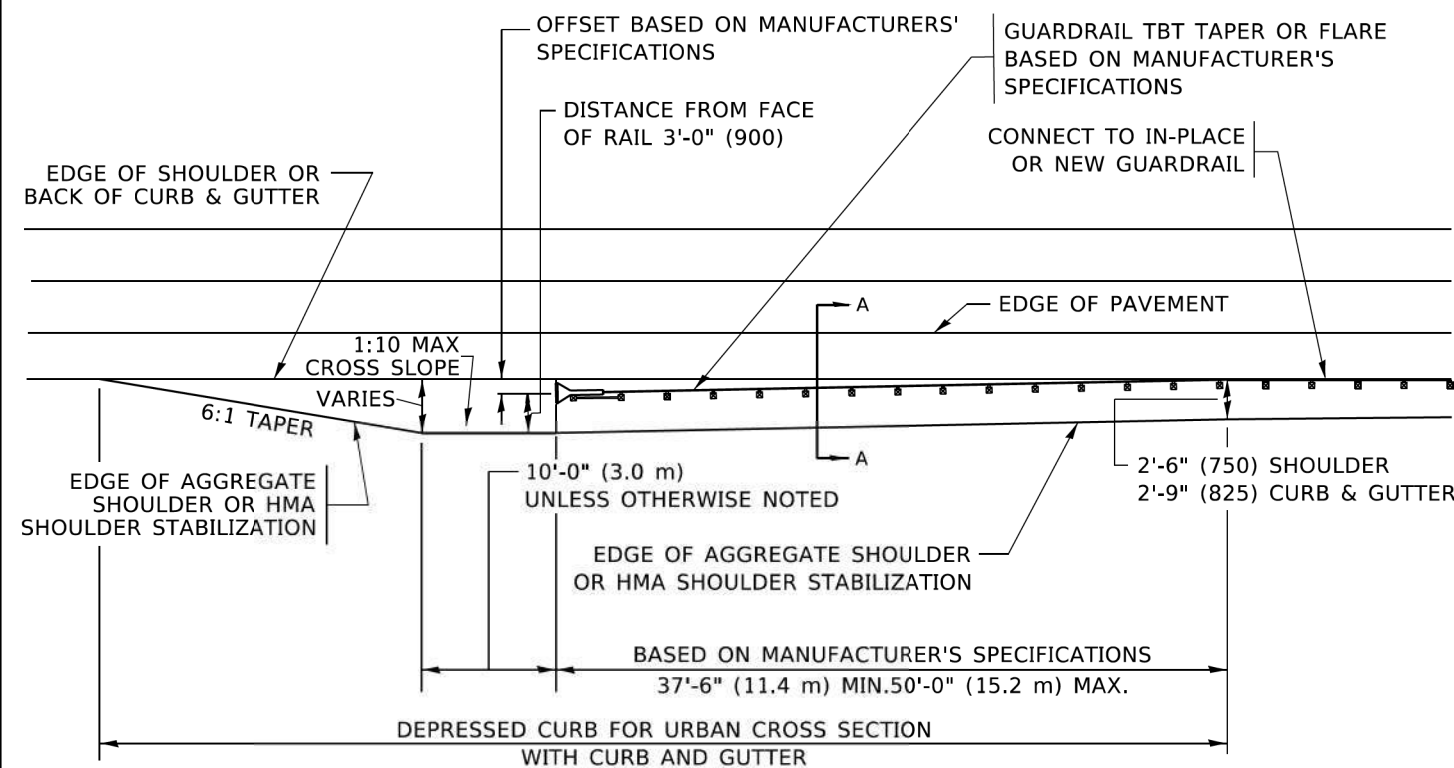


**SECTION A-A**

**NOTES:**

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE EXISTING GUARDRAIL HEIGHT SHALL TRANSITION TO MATCH THE NEW TERMINAL END SECTION AND SHALL BE PAID FOR AS VERTICAL ADJUSTMENT OF EXISTING GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM  
GUARD RAIL ADJACENT TO CURB AND GUTTER  
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

MODEL: Default  
FILE: N:\miller\pub\pubnew\benlyr.com\PI\DOT\Documents\1\DOT\_Offices\Burlingame\1\Projects\05151023\2\ACAD\Burlingame\CAD\sheet\031.dgn

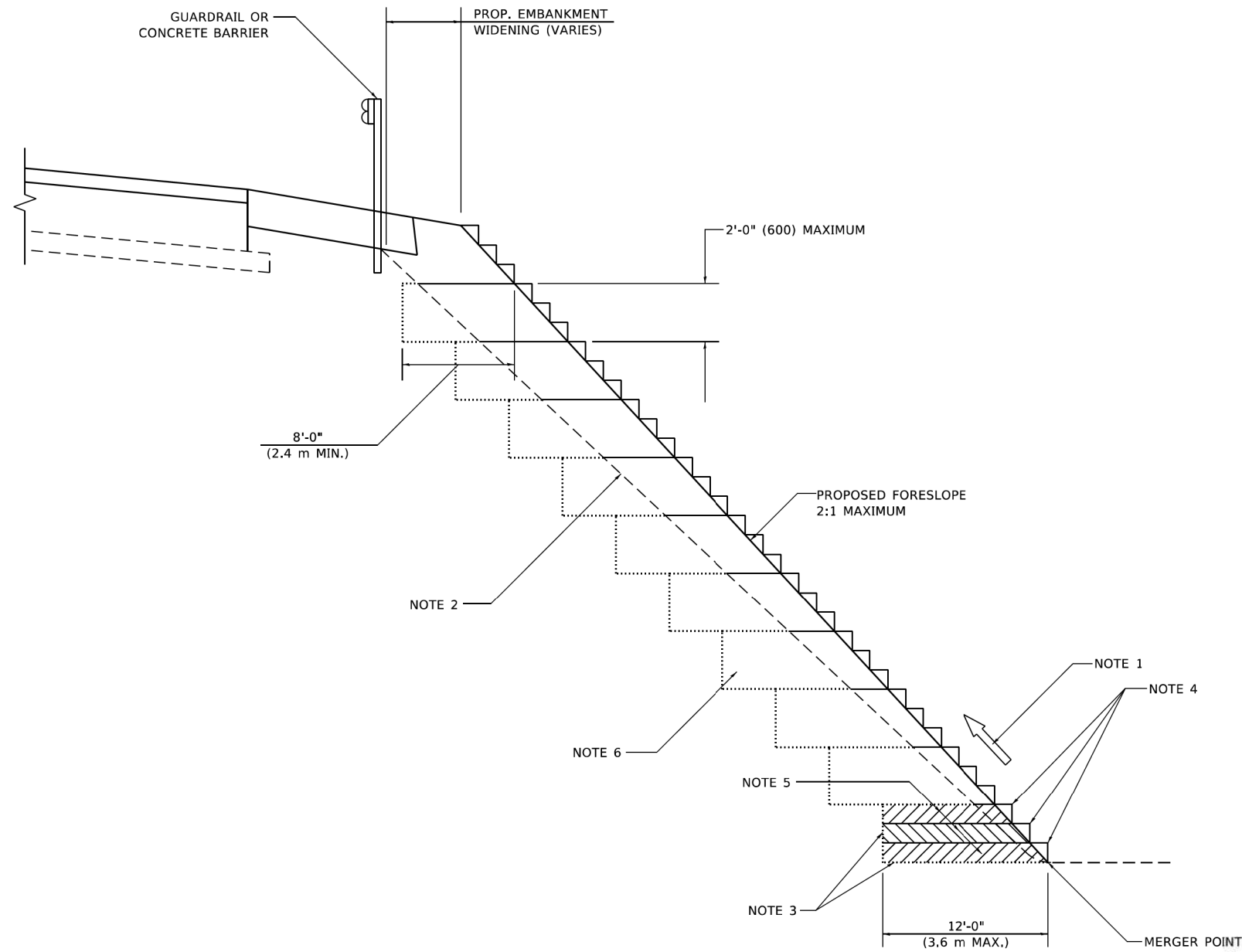
USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - R. BORO 09-14-2009
	DRAWN -	REVISED - R. BORO 08-06-2012
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 05-08-2015
PLOT DATE = 11/18/2022	DATE - 09-22-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND  
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	39
<b>BD600-10 (BD-34)</b>		CONTRACT NO. <b>61J68</b>		
ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**GENERAL NOTES**

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

**BASIS OF PAYMENT**

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

MODEL: Default  
 FILE: N:\bentley\_bentley.com\p1\DOT\Documents\DOT\_Offices\Bentley - I\Projects\051523\2A\CADD\03a\CAD\Sheet\031.dgn

USER NAME = Lawrence,DeManche	DESIGNED -	REVISED - K. SMITH 11-18-22
	DRAWN - CADD	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - S.E.B.	REVISED -
PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -

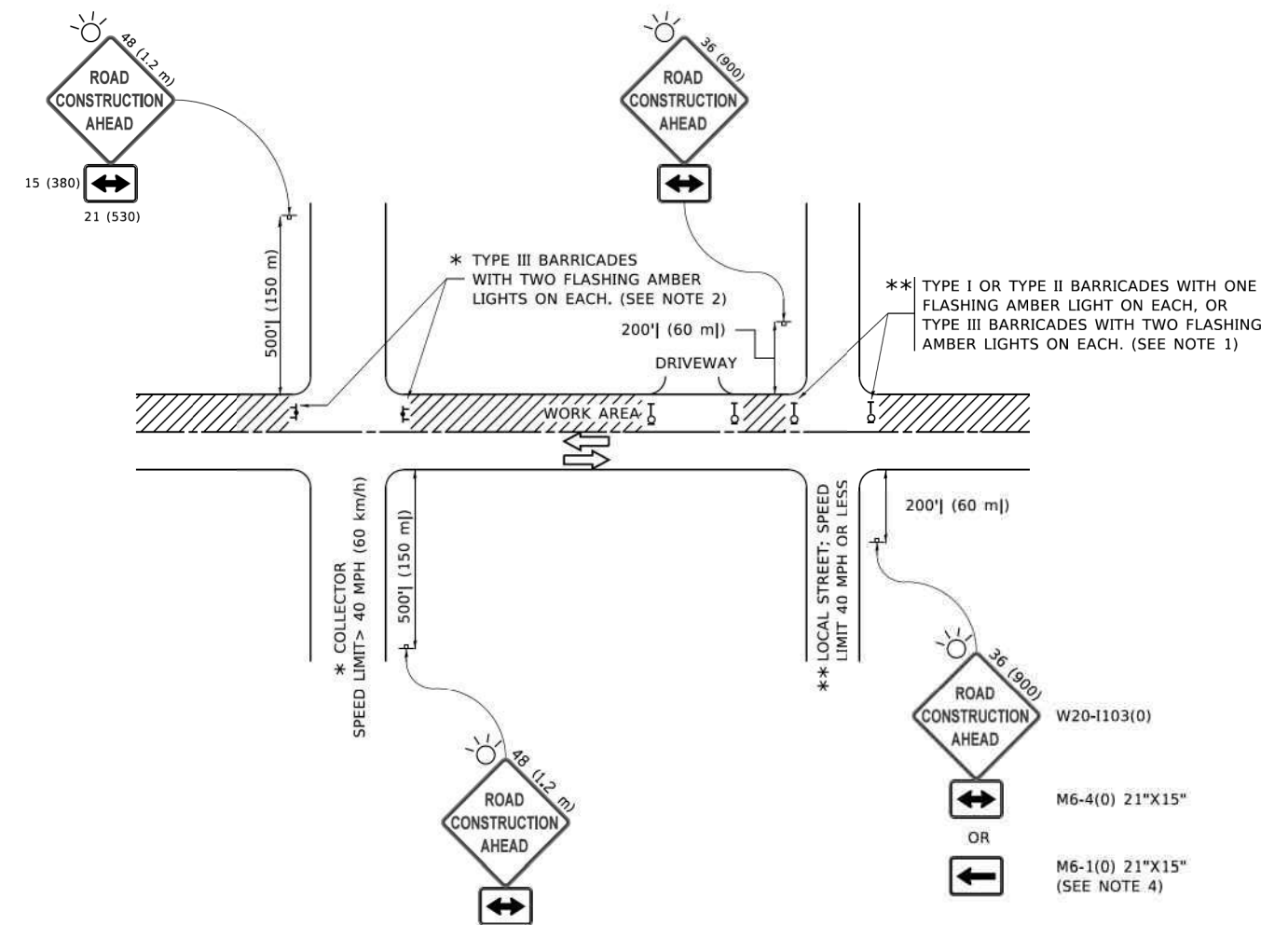
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL  
FOR EMBANKMENT WIDENING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	40
<b>BD-51</b>			<b>CONTRACT NO. 61J68</b>	
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL Default  
FILE Name: P:\110848\BID\NTEC\Illinois\gov\PHIDOT\Documents\TDDT\_Offices\Drawings\Projects\110848\110848-01\110848-01-01\110848-01-01-01\110848-01-01-01.dwg

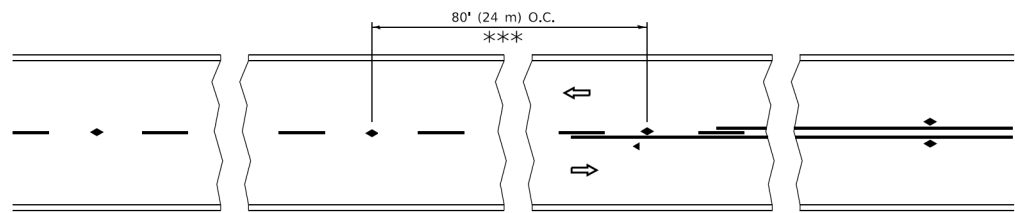
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

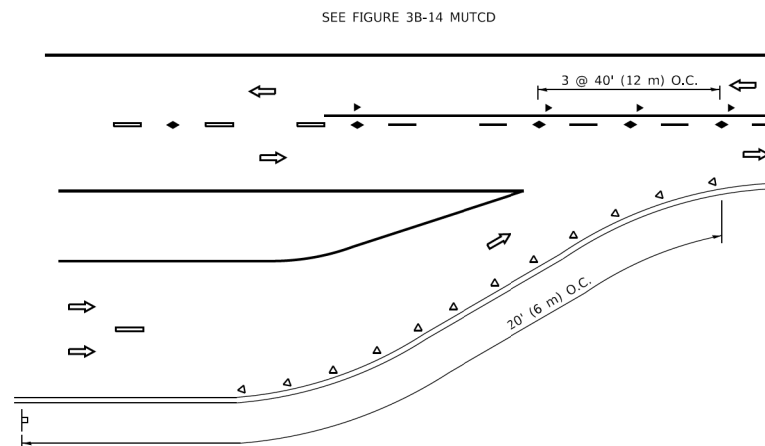
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	41
<b>TC-10</b>			CONTRACT NO. 61J68	
ILLINOIS FED. AID PROJECT				

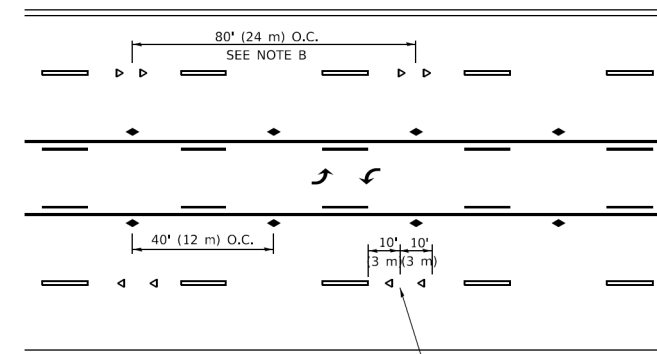


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

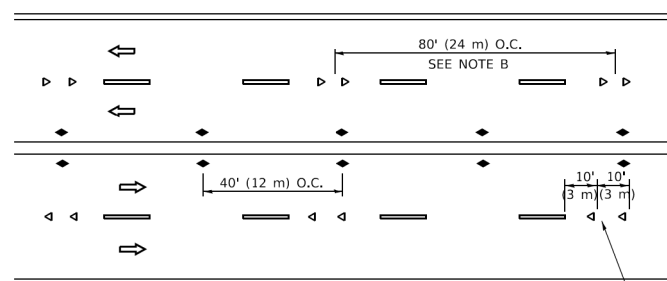
**TWO-LANE/TWO-WAY**



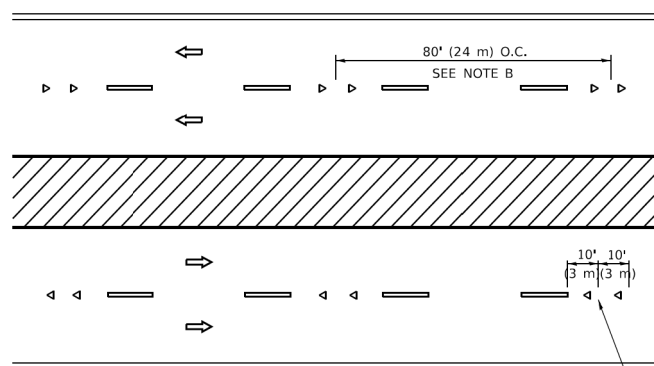
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

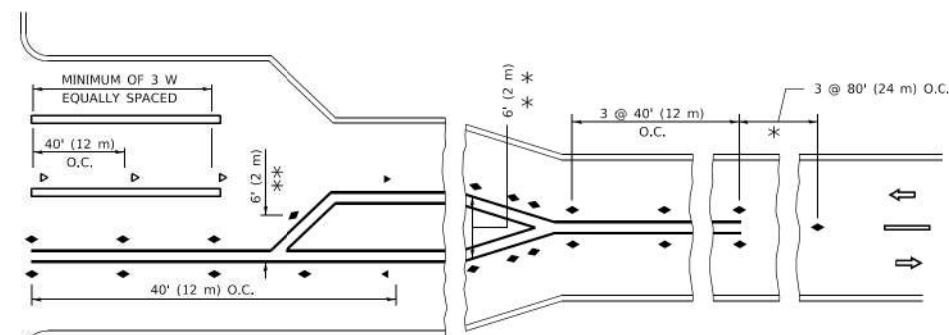
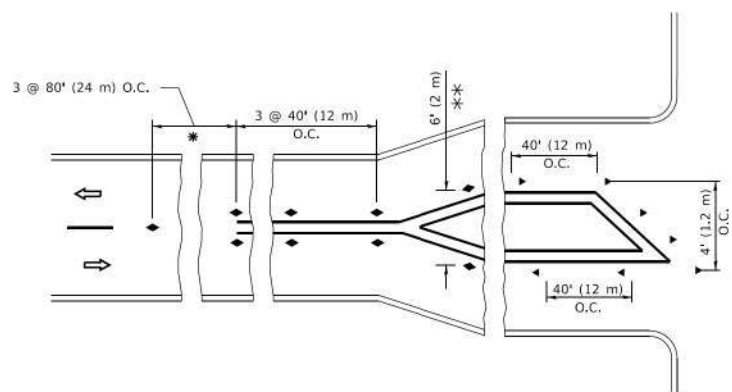
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/D)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



**TURN LANES**

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default  
 FILE NAME: P:\01\08\BID\NITEC\Illinois.gov\PHOTOS\Documents\DOT Offices\Illinois\Projects\DOT\2019\2019-01-08\CAD\Drawings\Sheet\11.dwg

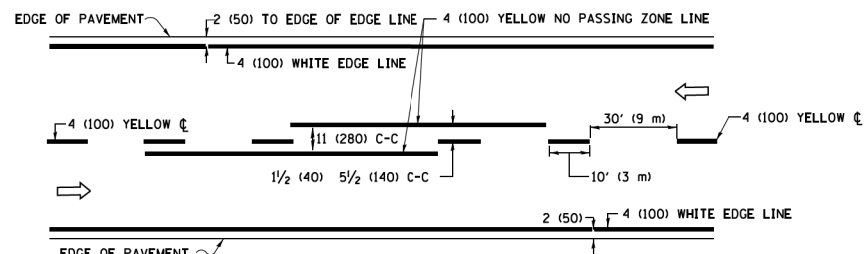
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

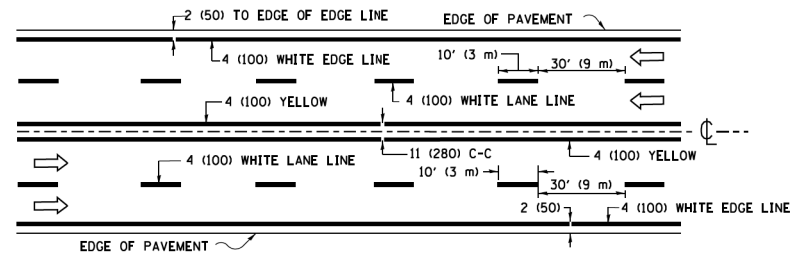
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

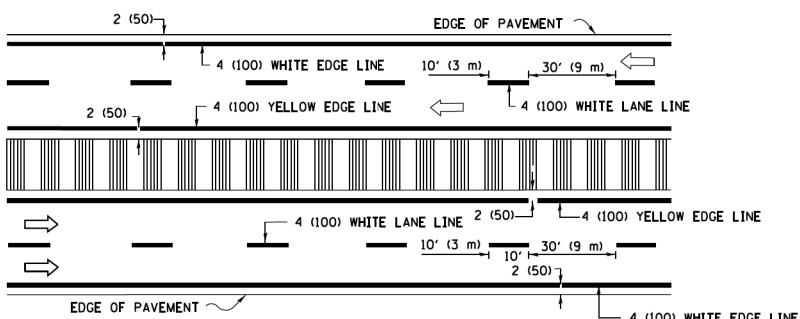
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	42
TC-11		CONTRACT NO. 61J68		
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

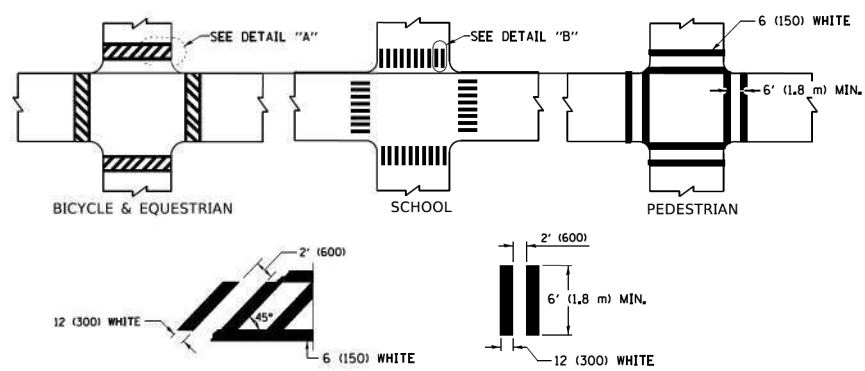


**MULTI-LANE UNDIVIDED**



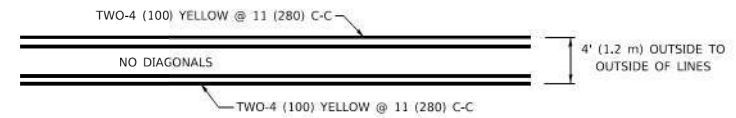
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

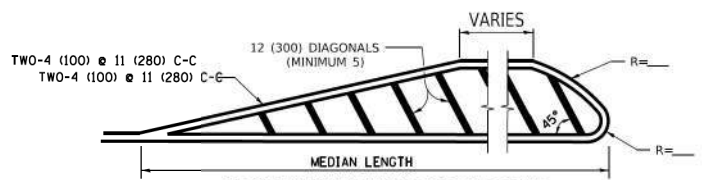


**TYPICAL CROSSWALK MARKING**

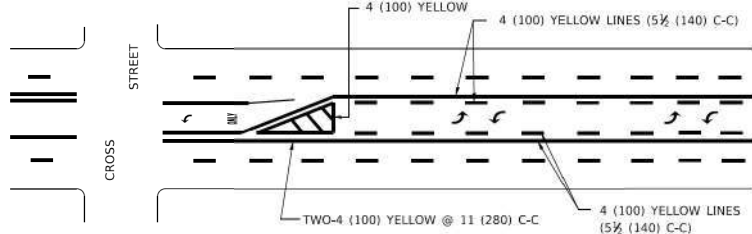
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



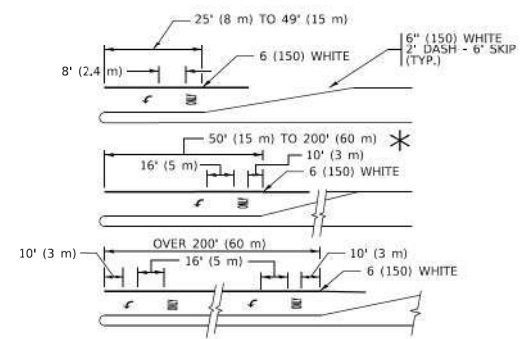
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**



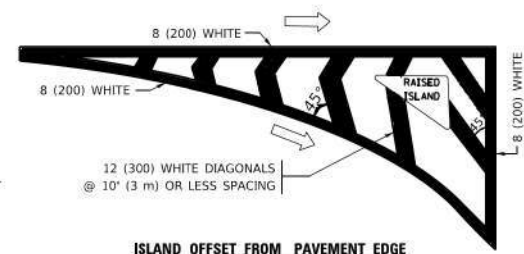
**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**



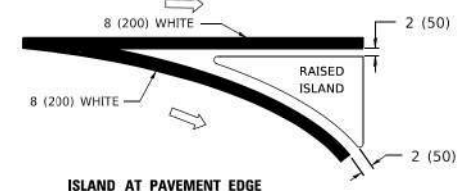
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

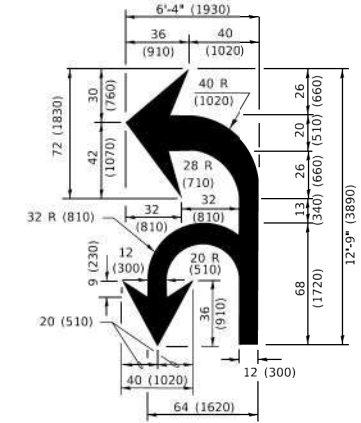
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
 AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



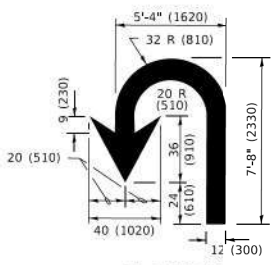
**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**  
 \* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 2' (600) APART 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH *X*=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL Default  
 FILE Name: pavmktg\08481ED1D1E2C1B61601D01Documents\DOTD1\Office\Drawings\Projects\DKUS10273\24\CADD\at\CAD\pavmktg13.dgn

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50.00000 ' / ft.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

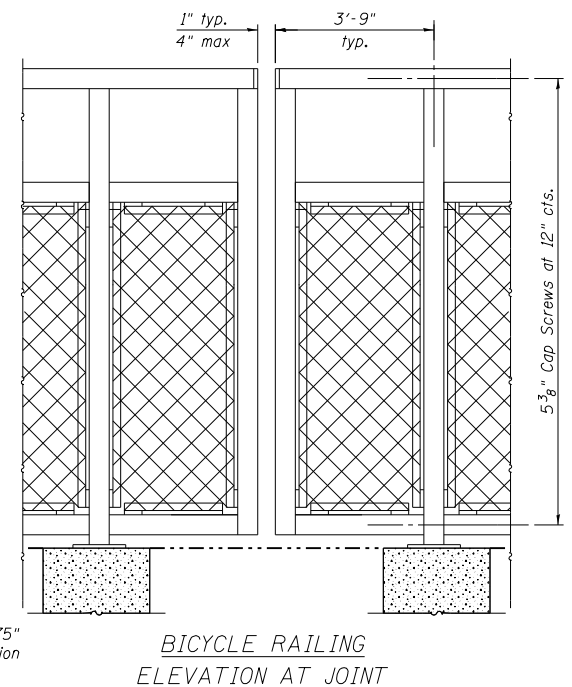
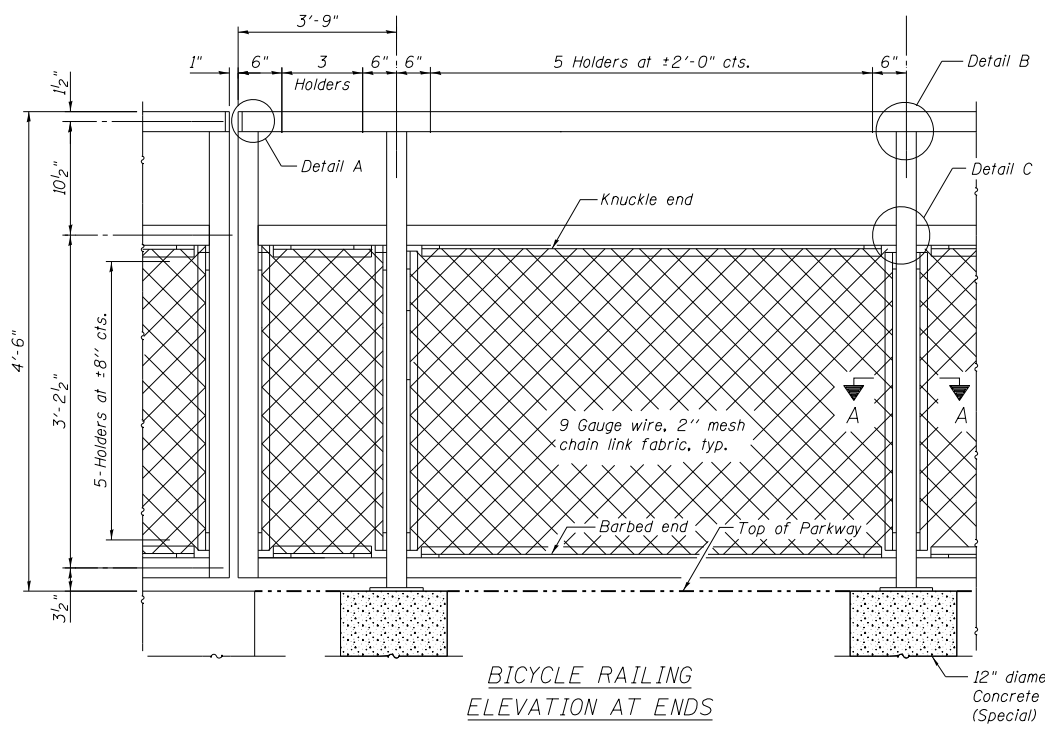
**DISTRICT ONE  
 TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

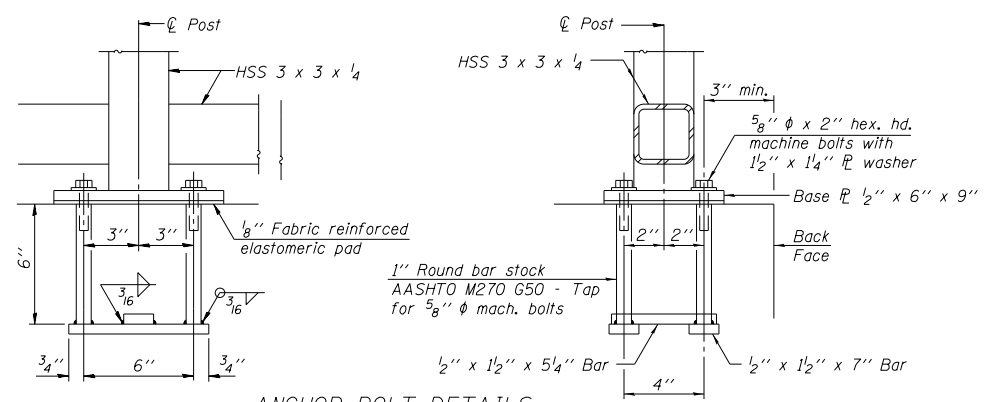
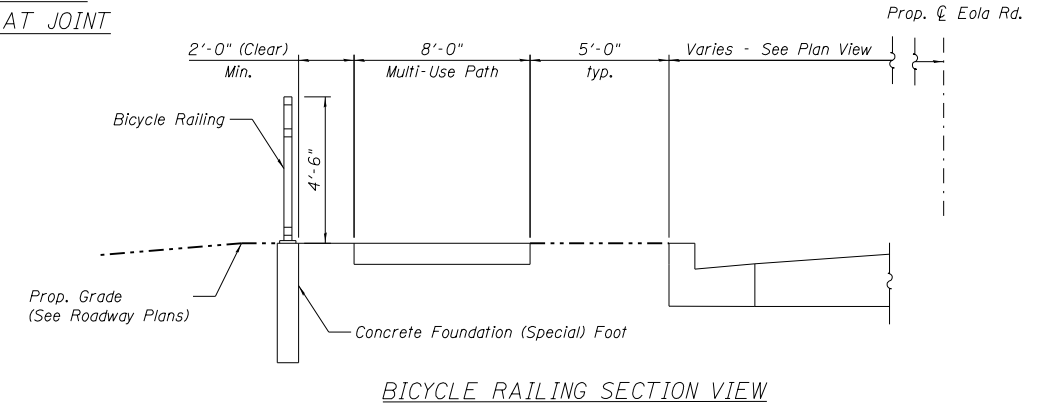
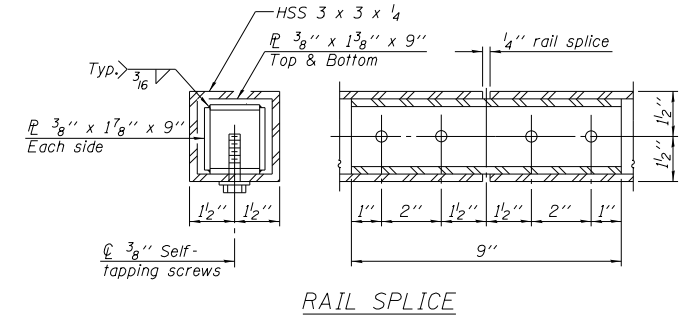
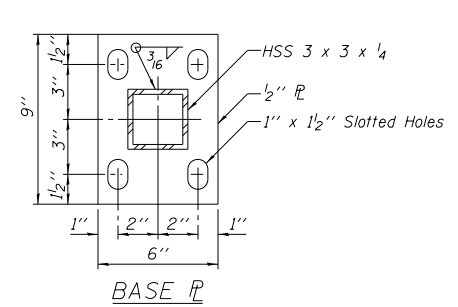
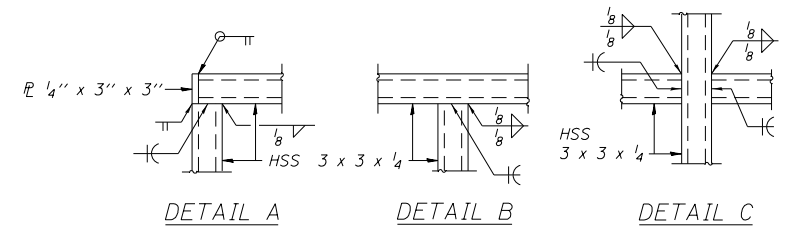
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	43
<b>TC-13</b>		<b>CONTRACT NO. 61J68</b>		
ILLINOIS FED. AID PROJECT				



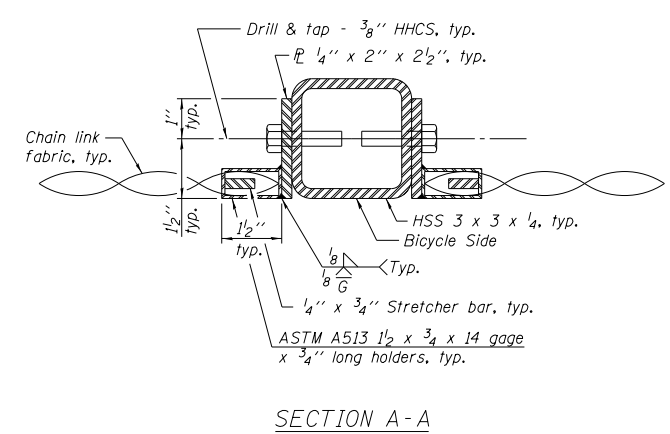




Note:  
All post, railing, splices, anchor devices, and bent plates shall be powder coated black. The powder coating system to be used shall be approved by the engineer prior to the coating process.



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8"  $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.  
(10'-0" Maximum Post Spacing)



Note:  
All post, railing, splices, anchor devices and bent plates shall be powder coated black.

HRG PROJECT NO: 21/700  
HRG PROJ CONTACT:  
FILE NAME: 21/700-SHT-DET-01.dgn  
CLO: JWB:ERS:LS:DET:DWG:17:17  
PEN: TABLET:DWG:17:17



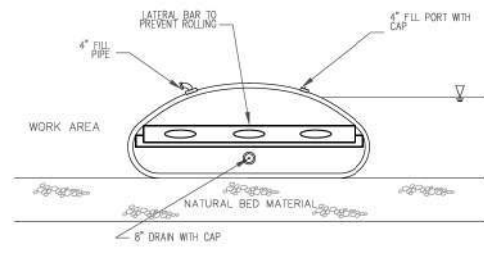
USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 20,0075' / in.	CHECKED - JJS	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS  
RIVERSIDE DRIVE

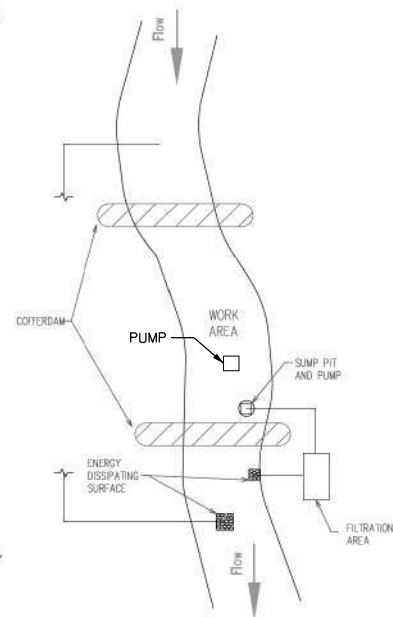
SCALE: N.T.S. SHEET 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	46
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				



**COFFERDAM PROFILE**

**PLAN VIEW**



**NOTES:**

1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.
2. LOCATIONS FOR THE SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.

**UNITED STATES ARMY CORPS OF ENGINEERS NOTES:**

1. EARTHEN COFFERDAMS OR OTHER PRACTICES THAT WOULD RESULT IN A RELEASE OF SEDIMENT INTO WATERS OF THE U.S. ARE NOT AUTHORIZED FOR USE. COFFERDAMS SHALL BE CONSTRUCTED OF NON-ERODIBLE MATERIALS ONLY. ACCEPTABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: PRE-FABRICATED RIGID COFFERDAMS, SHEET PILING, INFLATABLE BLADDERS, SANDBAGS AND FABRIC-LINED BASINS. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.
2. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUABARRIERS, RIP RAP AND GEOTEXTILE FABRIC, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
3. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE COFFERDAM. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
4. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
5. DURING DEWATERING OF THE COFFERED AREA, ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
6. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES). THE ENGINEER AND THE MCHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.

ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.

EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER.

MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.

ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.

A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.

DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM.

ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY WITHIN THE EXISTING ROW AND/OR EASEMENT.

DRAIN TILES WITHIN THE DISTURBED AREA OF THE DEVELOPMENT SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT OR INTERCEPTED AND CONNECTED TO THE DRAINAGE SYSTEM FOR THE DEVELOPMENT. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.

**MCHENRY COUNTY STORMWATER PERMIT REQUIREMENTS**

SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.

SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.

NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.

OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.

SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.

STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS INSTANCES WHEN THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE AND IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.

DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKING IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR EQUIVALENT CONTROL MEASURE.

PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.

THE DRAINAGE SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.

HRG PROJECT NO: 2/1700  
 HRG PROJ CONTACT:  
 FILE NAME: 2/1700-SW-DET-03.dgn  
 FILE PATH: \\hrge\proj\21700-SW-DET-03.dgn  
 PEN TABLE: 2/1700.tbl

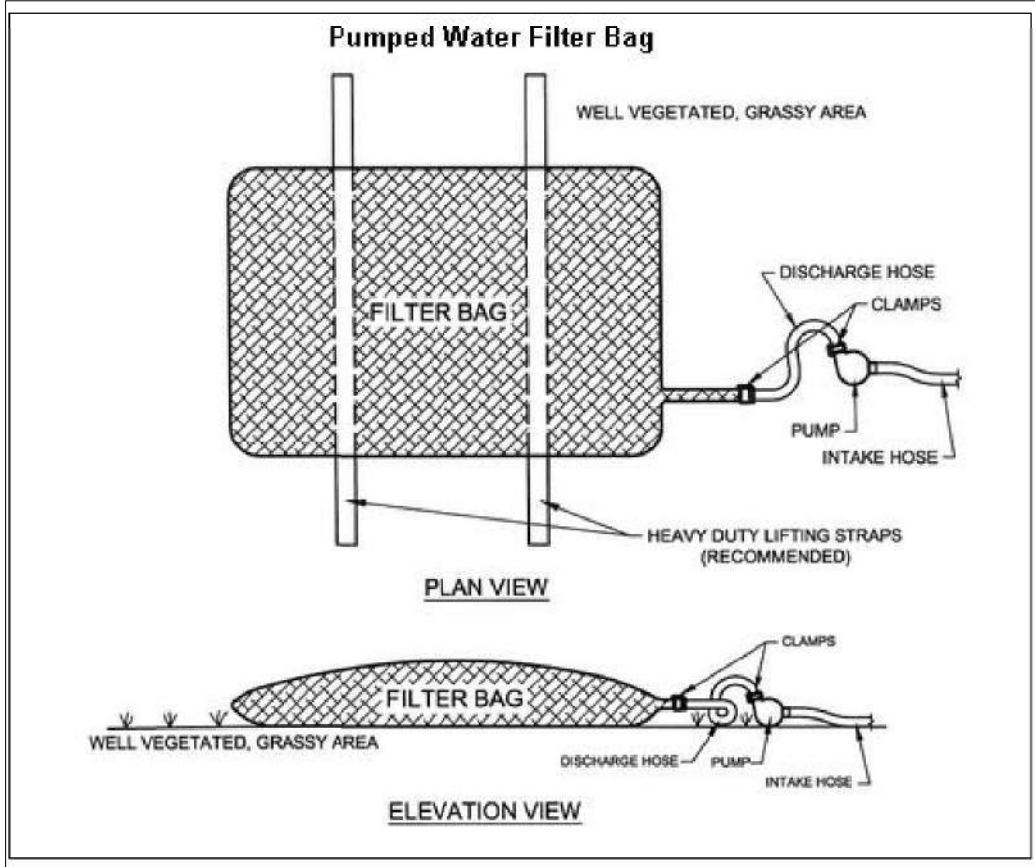


USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 8,0000' / in.	CHECKED - JJS	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

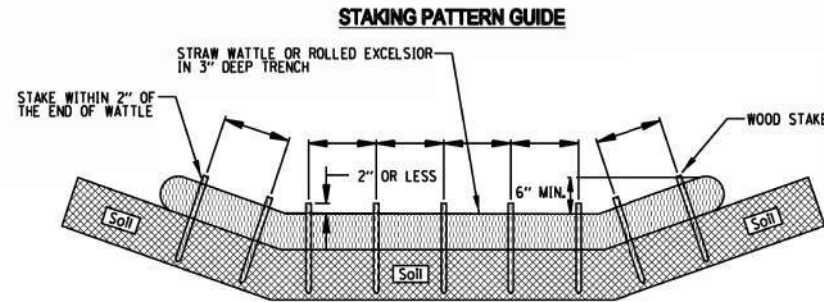
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CONSTRUCTION DETAILS</b>			
<b>RIVERSIDE DRIVE</b>			
SCALE: N.T.S.	SHEET 2	OF 6 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	47
• 4003, 4004	CONTRACT NO.		61J68	
ILLINOIS FED. AID PROJECT				

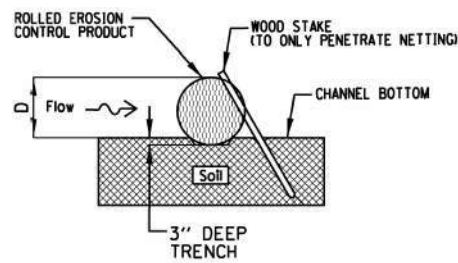


## ROLLED EROSION CONTROL PRODUCTS



- NOTES:**
1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
  2. 4" SPACING FOR WATTLES.
  3. 2" SPACING FOR ROLLED EXCELSIOR.
  4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

### STAKE DETAIL

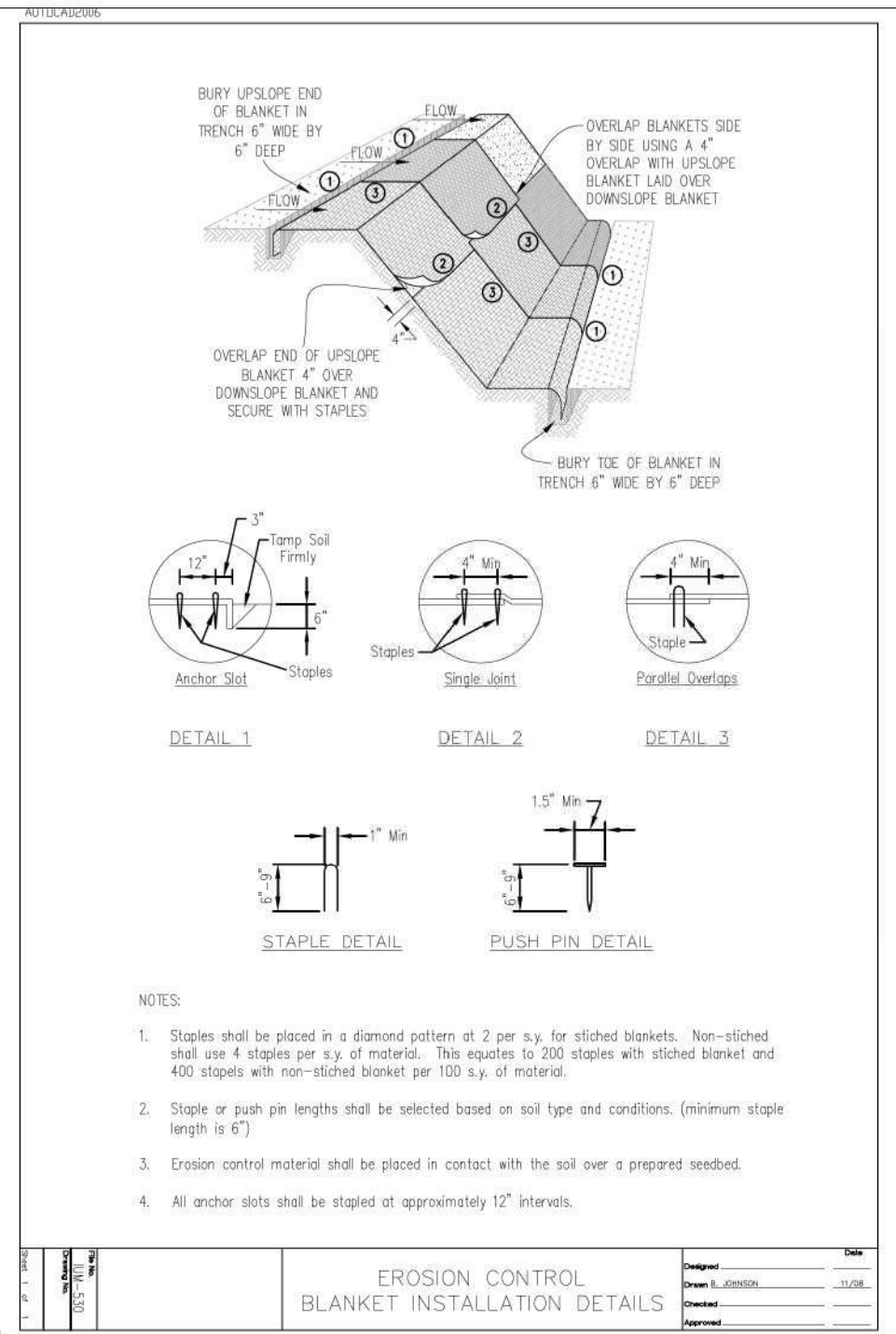


- NOTES:**
1. DRAWINGS ARE NOT TO SCALE.
  2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
  3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
  4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
  5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.  
**IUM-514**  
SHEET 1 OF 1  
DATE 08-2-2019



## EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed	_____	Date	_____
Drawn	B. JOHNSON	Date	11/08
Checked	_____	Date	_____
Approved	_____	Date	_____

HRG PROJECT NO: 21700  
 HRG PROJ CONTACT:  
 FILE NAME: 21700-514-08-01-er.os.dgn  
 PEN TABLE: 10/10/2019



USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 8,0000' / 1"	CHECKED - JJS	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

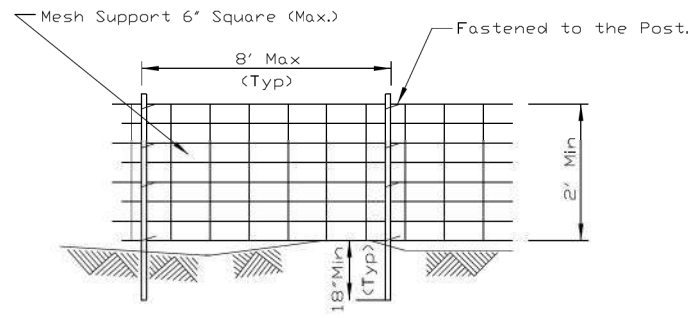
## CONSTRUCTION DETAILS RIVERSIDE DRIVE

SCALE: N.T.S. SHEET 3 OF 6 SHEETS STA. TO STA.

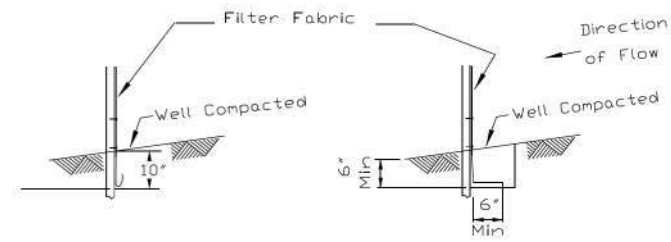
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	48
			CONTRACT NO. 61J68	
ILLINOIS FED. AID PROJECT				



SILT FENCE WITH WIRE SUPPORT PLAN



ELEVATION



FABRIC ANCHOR DETAIL

STATIC SLICE INSTALLATION      TRENCH INSTALLATION

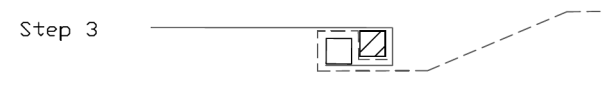
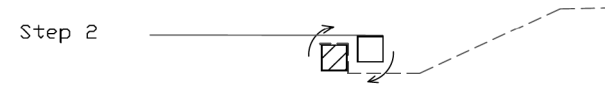
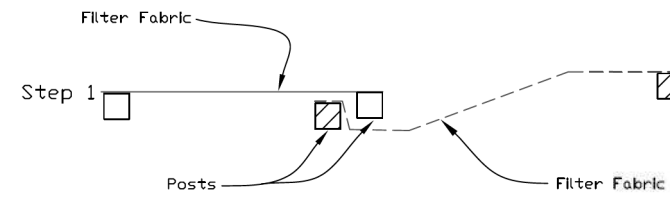
- NOTES:
- Silt Fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization. Silt fence shall be placed on the flattest area available.
  - Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
  - Fence posts shall be either standard steel post or wood post 2" X 2" nominal.
  - Wire mesh may be omitted if post spacing is 5' on center or less.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.  
IUM-620A(W)  
SHEET 1 OF 2  
DATE 4-15-2021

SILT FENCE - SPLICING TWO FENCES



ATTACHING TWO SILT FENCES

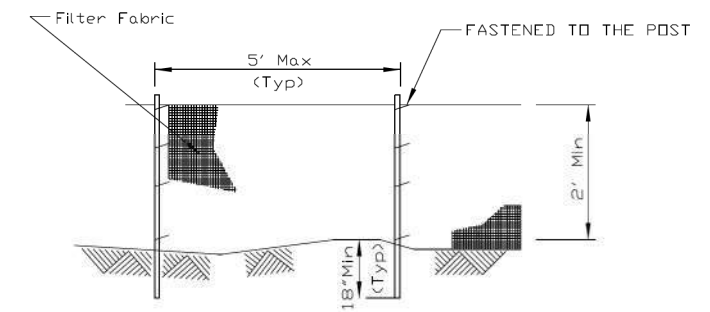
- Place the end post of the second fence inside the end post of the first fence.
- Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
- Drive both posts a minimum of 18 inches into the ground and bury the flap.
- Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

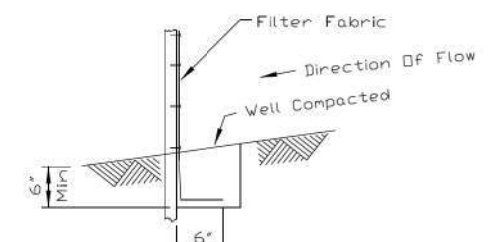


STANDARD DWG. NO.  
IUM-620B(W)  
SHEET 1 OF 1  
DATE 3-16-2012

SILT FENCE PLAN



ELEVATION



FABRIC ANCHOR DETAIL

- NOTES:
- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
  - Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
  - Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.  
IUM-620A  
SHEET 1 OF 2  
DATE 04-15-2021

HRG PROJECT NO: 21/700  
 HRG PROJ CONTACT:  
 FILE NAME: 21/700-571-dwr-02-eros.dgn  
 PEN TABLE: penTable.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 8,0000' / in.	CHECKED - JJS	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

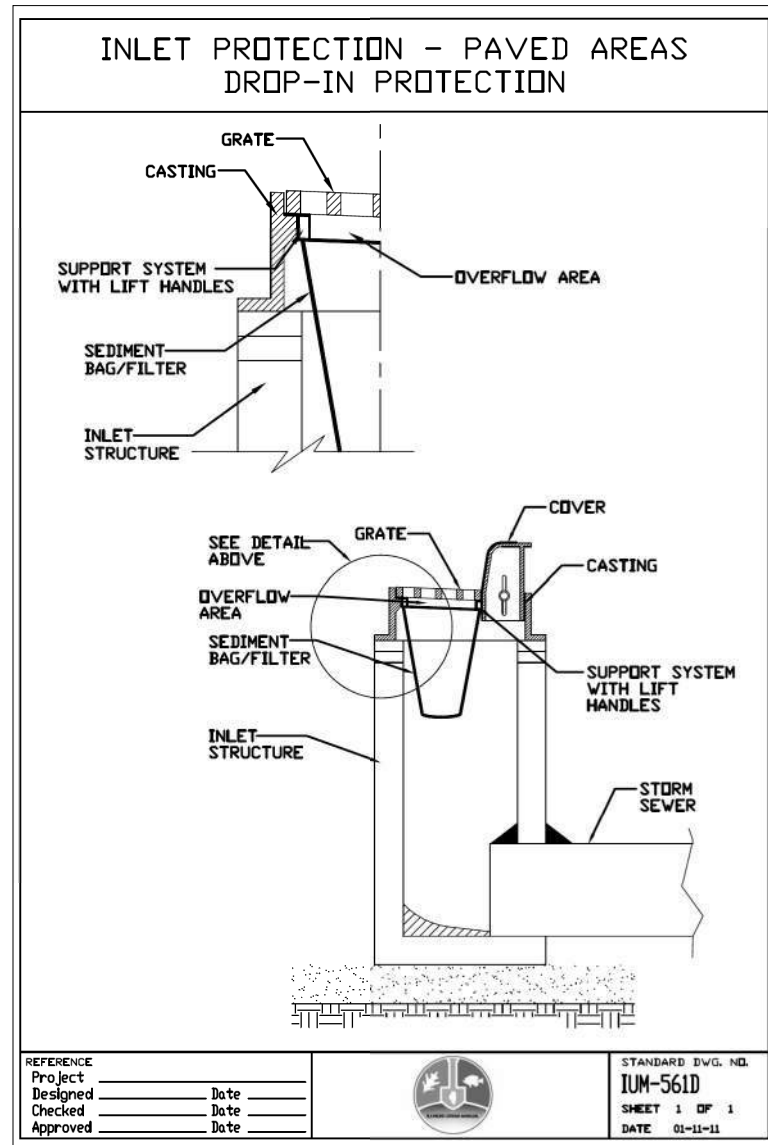
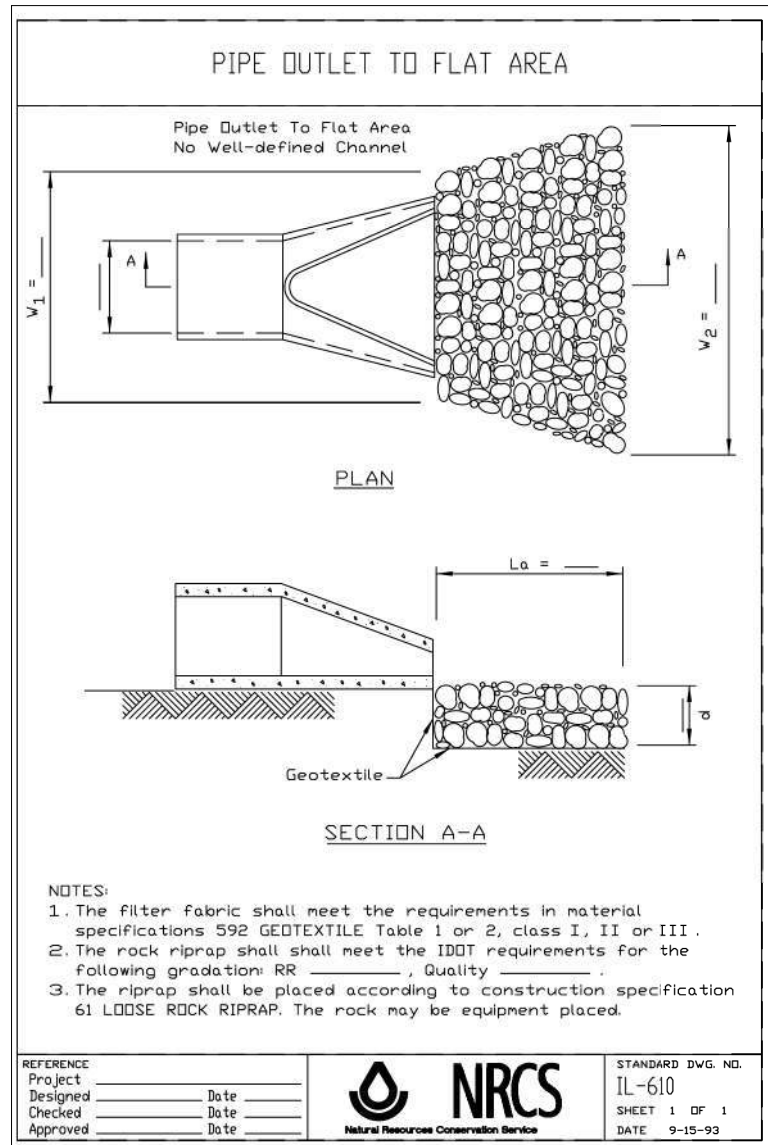
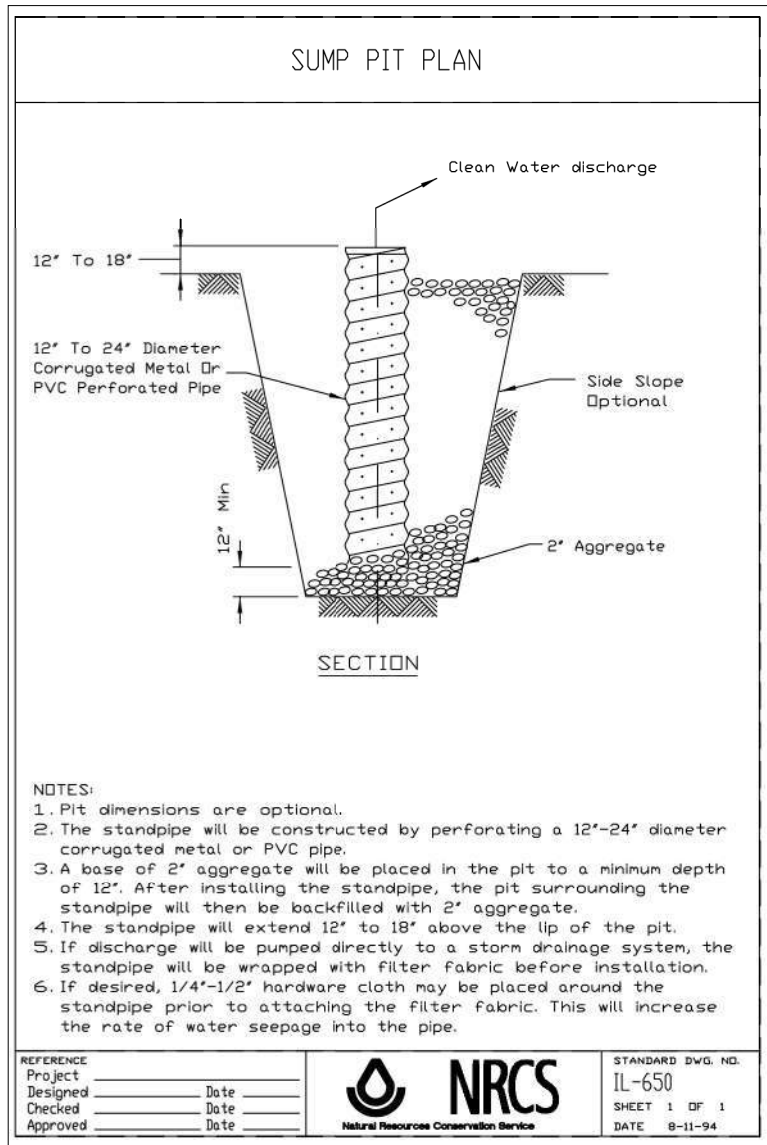
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS  
RIVERSIDE DRIVE

SCALE: N.T.S.      SHEET 4 OF 6 SHEETS      STA.      TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	49
CONTRACT NO. 61J68				

ILLINOIS FED. AID PROJECT



HRG PROJECT NO: 2/1700  
 HRG PROJ CONTACT:  
 FILE NAME: 2/1700-SHT-06103-eros.dgn  
 PEN TABLE: 1/10/2023

**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-001322

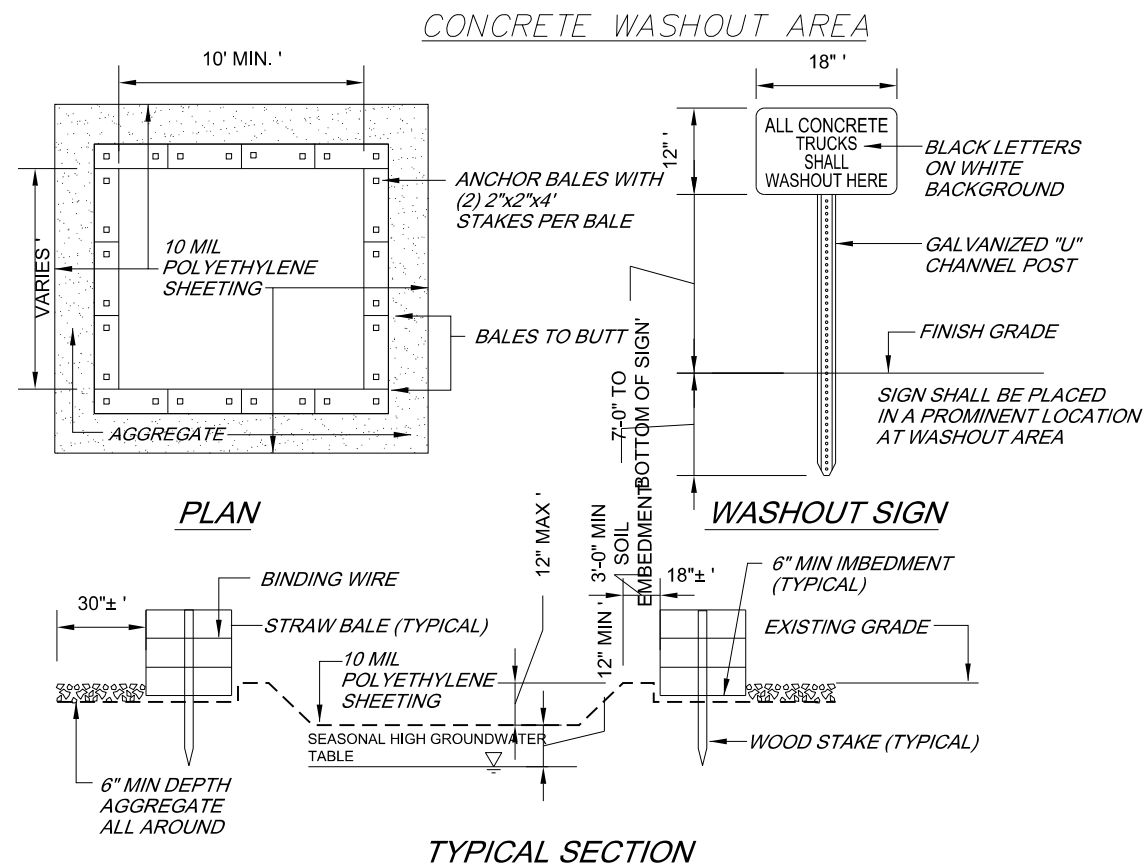
USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 8,0000' / in.	CHECKED - JJS	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS**  
**RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 5 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	50
CONTRACT NO. 61J68				
ILLINOIS		FED. AID PROJECT		



**NOTES:**

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

HRG PROJECT NO: 21/700  
 HRG PROJ CONTACT:  
 FILE NAME: 21/700-511-06104-eros.dgn  
 PEN TABLE: p1010604.tbl



USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 8,0000' / in.	CHECKED - JJS	REVISED -
PLOT DATE = 7/10/2023	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS**  
**RIVERSIDE DRIVE**

SCALE: N.T.S. SHEET 6 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	51
CONTRACT NO. 61J68				
ILLINOIS		FED. AID PROJECT		

**DESIGN SPECIFICATIONS**  
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition  
**DESIGN STRESSES**  
FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

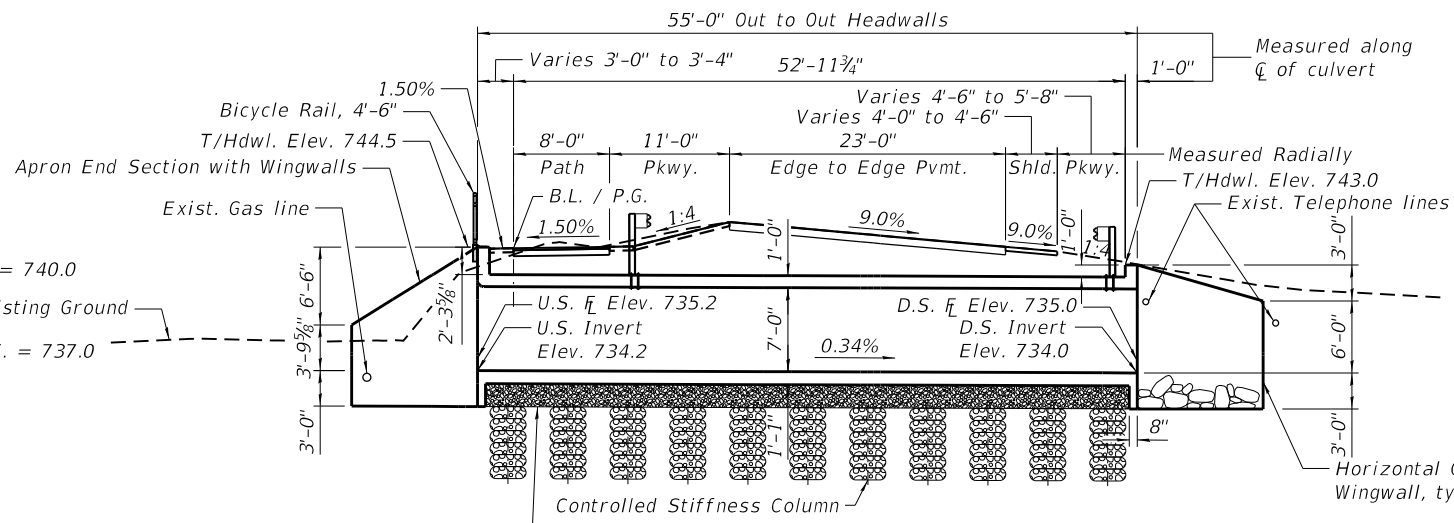
Benchmark  
Cut square on the northwest corner of the north headwall of SN 056-3159 at the northeast corner of Johnsburg Road and Riverside Drive. Elevation 752.55 (NAVD88)

Existing Structure:  
Structure No. 056-5010 built in 1953 consists of three (3) corrugated metal pipe culvert cells measuring 11'-10" x 7'-6" and a structure length of 38'-0".

Traffic Control:  
Road will be closed, and traffic will be detoured during construction.

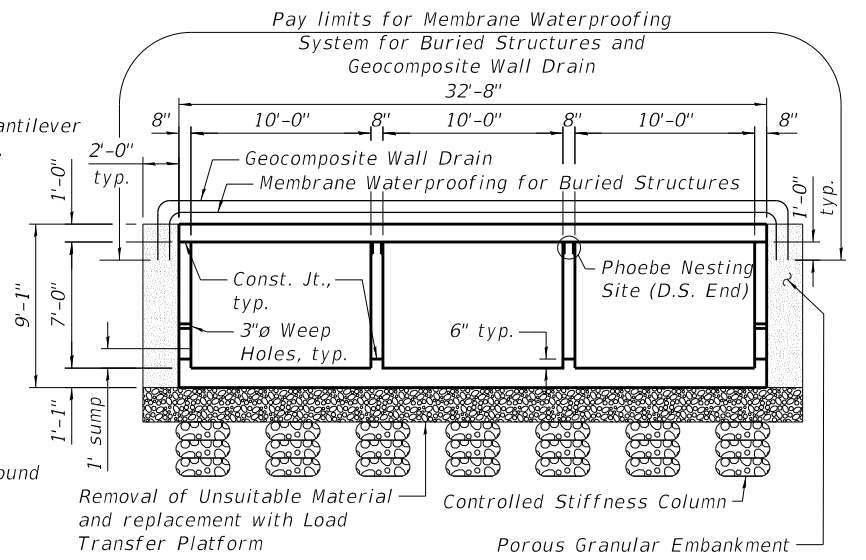
Precast alternate is not allowed.

No Salvage

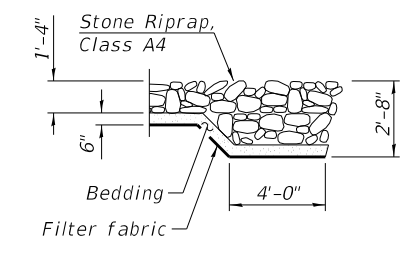


1'-11" Thick Removal of Unsuitable Material, 2'-0" beyond base of culvert on each side, and replacement with Load Transfer Platform

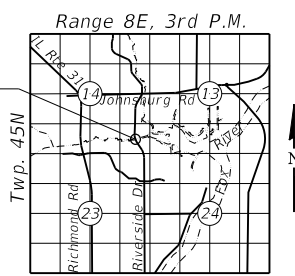
Note:  
Strong Post Guardrail mounted to culvert (See Standard 630101)



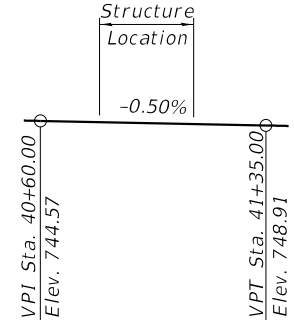
SECTION THRU BARREL



SECTION A-A



LOCATION SKETCH



PROFILE GRADE  
West edge of proposed 8'-0" wide path

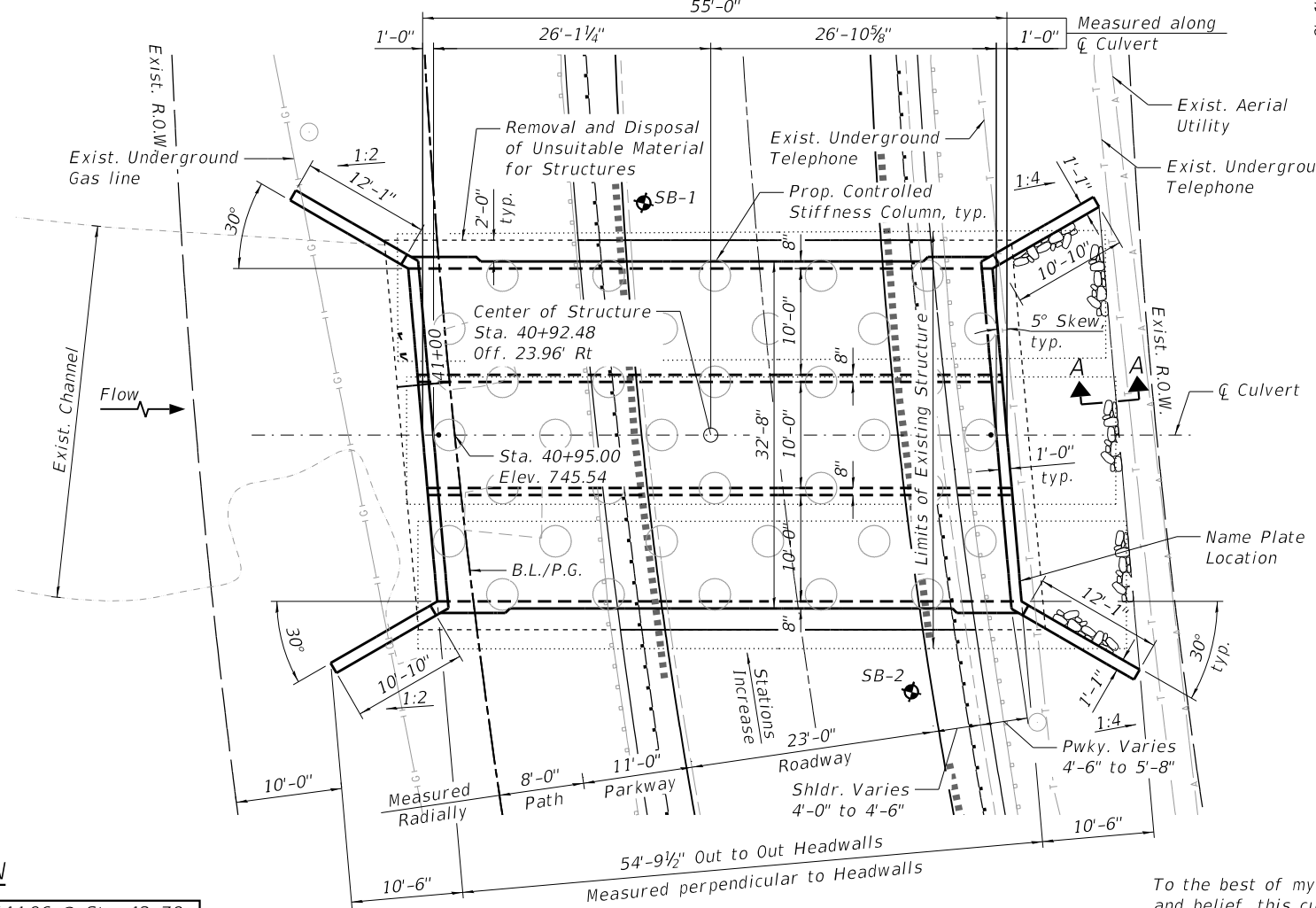
**CURVE DATA**

PROP. CURVE PRBL-PATH 29  
PI STA. = 41+47.04  
 $\Delta = 37^\circ 38' 28''$  (RT)  
 $D = 7^\circ 19' 37''$   
 $R = 782.00'$   
 $T = 266.53'$   
 $L = 513.75'$   
 $E = 44.17'$   
 $e =$   
T.R. =  
S.E. RUN =  
P.C. STA. = 38+80.51  
P.T. STA. = 43+94.26

**WATERWAY INFORMATION**

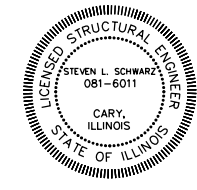
Drainage Area = 6.93 sq. mi. Overtopping Elev. = 744.96 @ Sta. 42+79

Flood	Freq. Yr.	Q C.F.S.	Opening Ft'		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	690	161	162	739.6	0.6	0.6	740.2	740.2
Base	30	987	173	175	740.0	1.0	1.0	741.0	741.0
Overtopping	100	1,533	195	199	740.9	2.0	1.8	742.9	742.7
Max Calc.	500	2,603	209	210	742.3	3.7	3.5	746.0	745.8



PLAN

To the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current "AASHTO Standard Specifications for Highway Bridges".



*Steven L. Schwarz*  
7/11/2023  
Structural Engineer Expires: 11/30/2024  
HR Green, Inc.

**GENERAL PLAN AND ELEVATION**  
F.A.U. RTE. 156 (RIVERSIDE DRIVE)  
**OVER DUTCH CREEK**  
SEC. 20-00016-00-RS  
MCHENRY COUNTY  
STATION 40+92.48  
STRUCTURE NO. 056-6019

HRG PROJECT NO.: 21/700  
HRG PROJ. CONTACT:  
FILE NAME: 056-6019-xxx-001-Culvert\_LPE.dgn  
PLOT DRIVER: IL\_Pdf.dwg  
PEN TABLE: plotlabel.tbl



USER NAME = jstrzal  
DESIGNED - RAT  
CHECKED - SLS  
DRAWN - WJH  
CHECKED - AEU  
PLOT SCALE =  
PLOT DATE = 7/18/2023

REVISOR  
REVISOR  
REVISOR  
REVISOR

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	52

CONTRACT NO. 61168  
ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
2. Precast Concrete alternate is not allowed.
3. Per Article 502.13 of the Standard Specifications, excavation for structures shall be considered included in the contract unit price for Concrete Box Culverts.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	74
Stone Riprap, Class A4	Sq. Yd.	44
Filter Fabric	Sq. Yd.	45
Pipe Culvert Removal	Foot	114
Removal and Disposal of Unsuitable Material	Cu. Yd.	189
Reinforcement Bars	Pound	39,000
Bicycle Railing	Foot	31
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	210
Geocomposite Wall Drain	Sq. Yd.	216
Membrane Waterproofing System for Buried Structures	Sq. Yd.	216
Temporary Bypass Pumping System	L. Sum	1
Controlled Stiffness Columns	L. Sum	1

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Culvert Details - Bottom Slab
- 4 Culvert Details - Plan
- 5 Wall Elevation
- 6 Wingwall Details
- 7 Intentionally Left Blank
- 8 Culvert Details
- 9 Bicycle Railing Details
- 10 Soil Boring Log

DUTCH CREEK  
BUILT BY  
VILLAGE OF JOHNSBURG  
SEC. 20-00016-00-RS  
F.A.U. RTE. 156 STA. 40+92.48  
STR. NO. 056-6019 LOADING HL-93

NAME PLATE  
See Std. 515001

HRC PROJECT NO.: 2/1700  
 HRC PROJ. CONTACT:  
 FILE NAME: 056-6019-xxx-002\_Culvert\_Gen\_Data.dgn  
 PLOT DRIVER: IL\_Pdf.dwg.plt.ctb  
 PEN TABLE: PlotTable.tbl



USER NAME = jstrzal	DESIGNED - RAT	REVISED - XX/XX/XXXX
	CHECKED - SLS	REVISED - XX/XX/XXXX
PLOT SCALE =	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - AEU	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

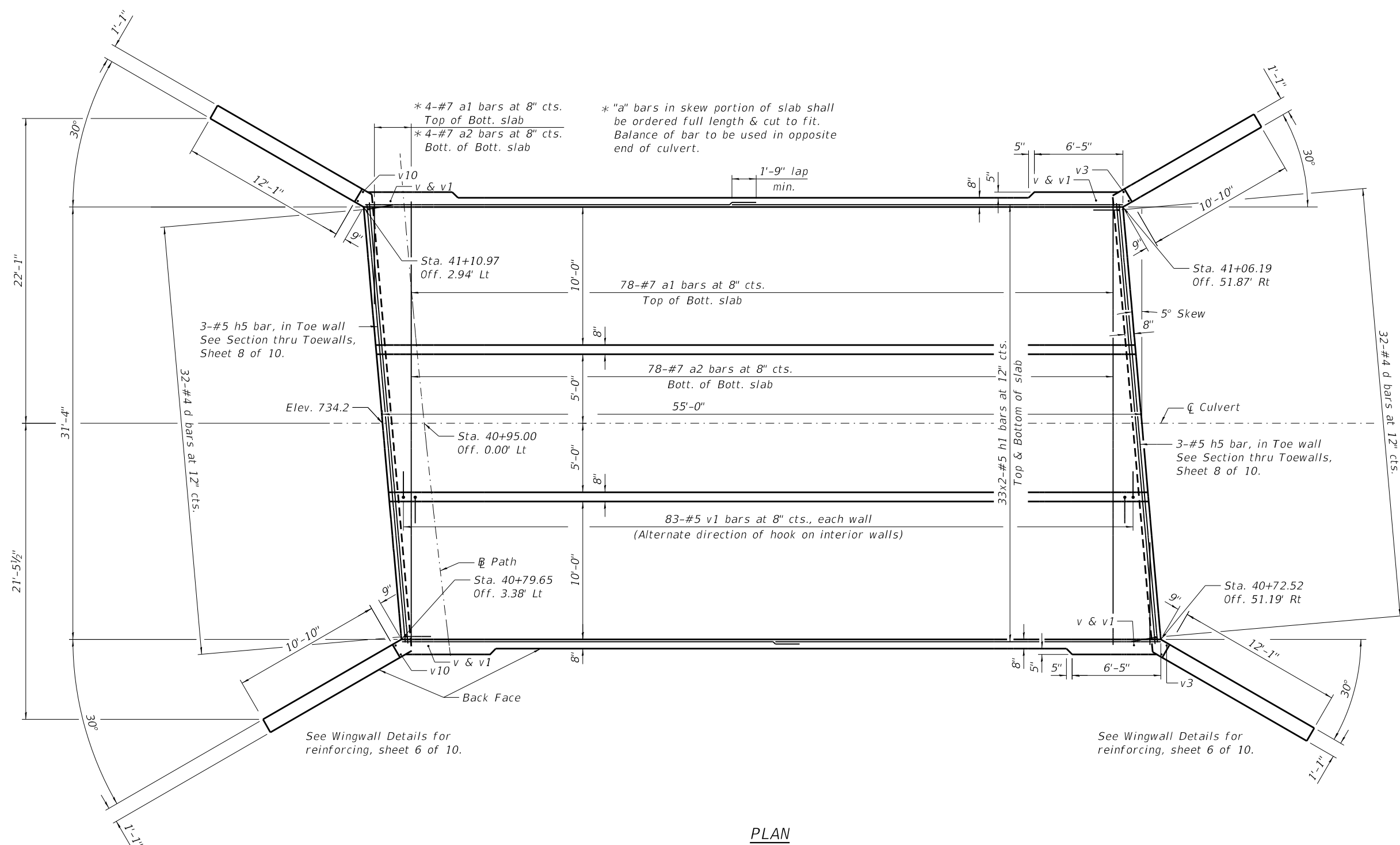
**GENERAL DATA  
STRUCTURE NO. 056-6019**

SHEET NO. 2 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	53
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				

**MINIMUM BAR LAP**

#4 bars = 1'-9"  
#5 bars = 2'-2"



**PLAN**

Note:  
Bars indicated thus 7x2-#4 etc. indicates  
7 lines of #4 bars with 2 lengths per line.



HRC PROJECT NO. 2/1700  
 HRC PROJ. CONTACT  
 FILE NAME: 056-6019-xxx-003-Culvert-Bottom-Slab.dgn  
 PLOT DRIVER: IL\_Pdf.dwg, p1.ctb  
 PEN TABLE: plotlabel.tbl


 HRGreen.com  
 ■ Note Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - RAT	REVISED - XX/XX/XXXX
	CHECKED - SLS	REVISED - XX/XX/XXXX
PLOT SCALE =	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - AEU	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS - BOTTOM SLAB  
STRUCTURE NO. 056-6019**

SHEET NO. 3 OF 11 SHEETS

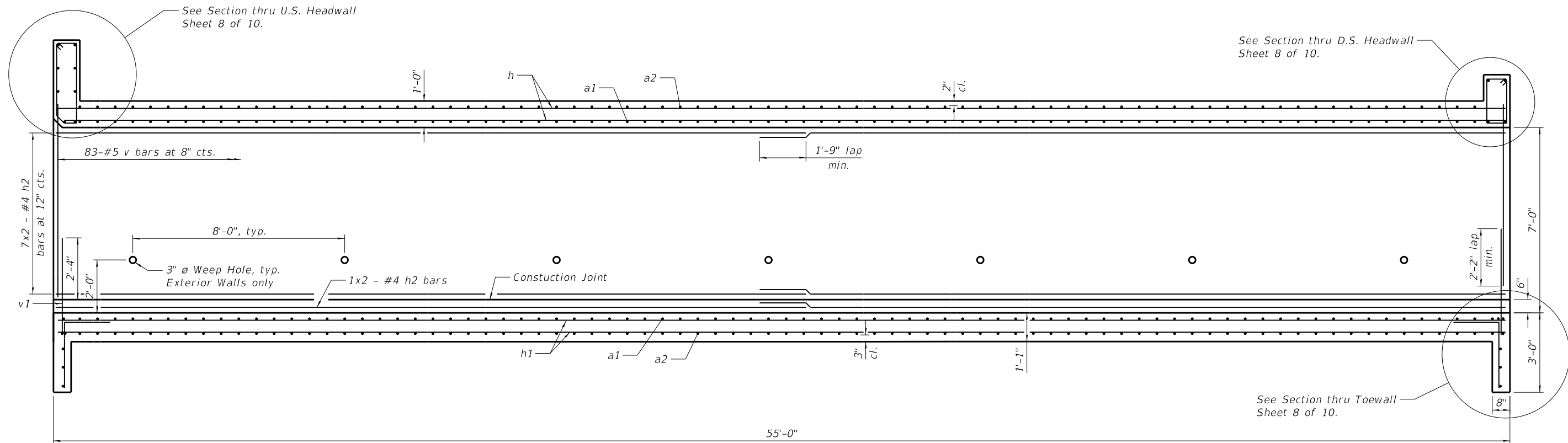
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	54
			CONTRACT NO. 61168	

ILLINOIS FED. AID PROJECT



**MINIMUM BAR LAP**

#4 bars = 1'-9"  
 #5 bars = 2'-2"



**LONGITUDINAL SECTION**

Notes:  
 Bars indicated thus 7x2-#4 etc. indicates 7 lines of #4 bars with 2 lengths per line.  
 At the Contractor's option, a longer v1 bar may be ordered to replace the v bar.  
 No reduction in quantities shall be made for this substitution.

HRG PROJECT NO.: 21/700  
 HRG PROJ. CONTACT:  
 FILE NAME: 056-6019-xxx-005\_Culvert\_Wall\_Ext.dgn  
 PLOT DRIVER: IL\_Pdf.dwg, p1.ctb  
 PEN TABLE: plotlabel.tbl



USER NAME = jstrzal	DESIGNED - RAT	REVISED - XX/XX/XXXX
	CHECKED - SLS	REVISED - XX/XX/XXXX
PLOT SCALE =	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - AEU	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

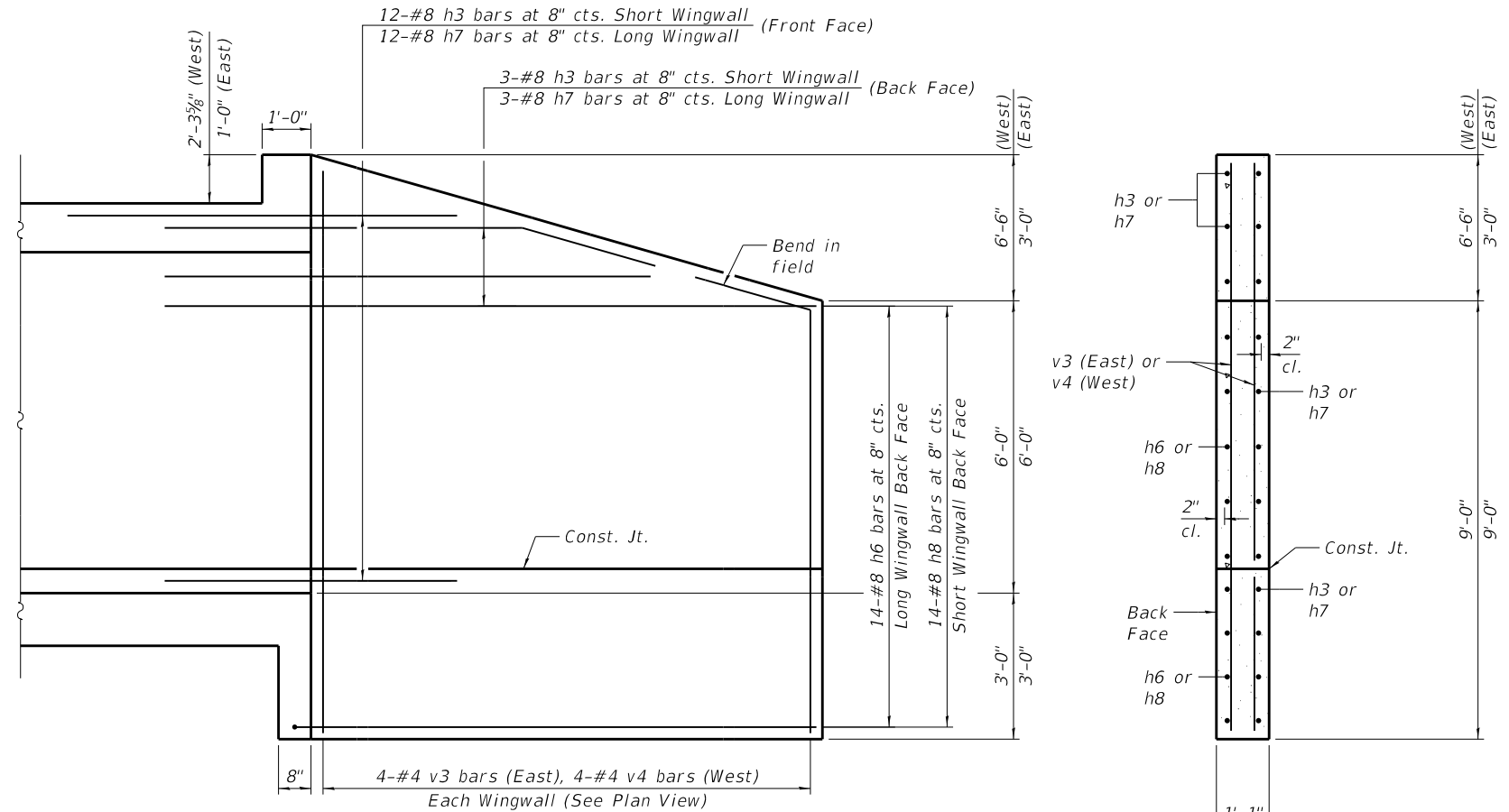
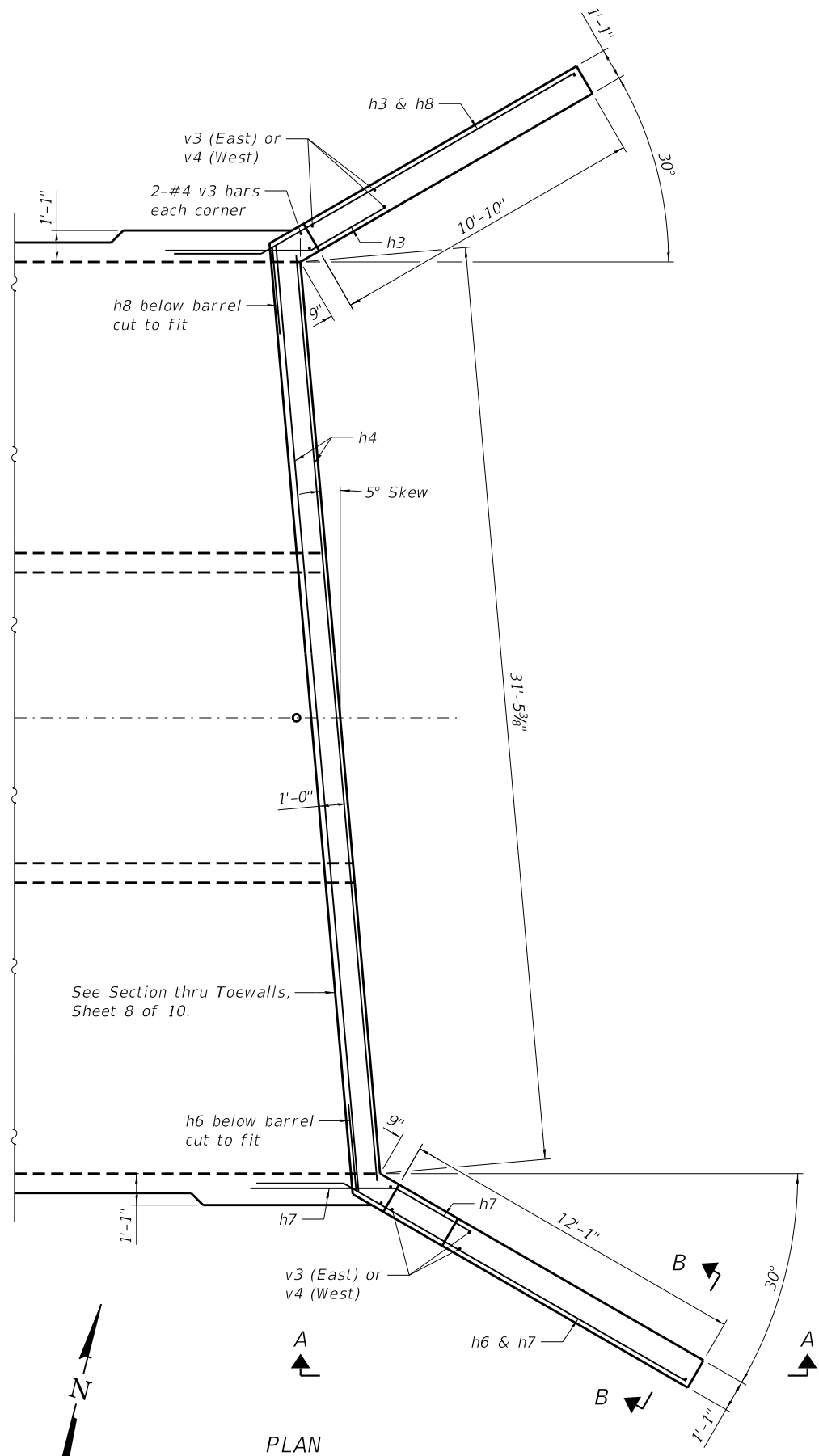
**WALL DETAILS  
 STRUCTURE NO. 056-6019**

SHEET NO. 5 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	56
			CONTRACT NO. 61168	

ILLINOIS FED. AID PROJECT





SECTION A-A

SECTION B-B

Note:  
East ingwalls shown.  
West wingwalls similar.

Notes:  
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.  
Bars indicated thus 12x4-#5 etc. indicates 12 lines of #5 bars with 4 lengths per line.  
At the Contractor's option, a longer v1 bar may be ordered to replace the v bar.  
No reduction in quantities shall be made for this substitution.

HRG PROJECT NO.: 2/1700  
HRG PROJ. CONTACT:  
FILE NAME: 056-6016-006\_Culvert\_East\_Wingwalls.dgn  
PLOT DRIVER: IL\_Pdf.dwg, p1.ctb  
PEN TABLE: plotlabel.tbl



USER NAME = jstrzal	DESIGNED - RAT	REVISED - XX/XX/XXXX
	CHECKED - SLS	REVISED - XX/XX/XXXX
PLOT SCALE =	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - AEU	REVISED - XX/XX/XXXX

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS  
STRUCTURE NO. 056-6019  
SHEET NO. 6 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	57
			CONTRACT NO. 61168	

ILLINOIS FED. AID PROJECT

**THIS SHEET INTENTIONALLY LEFT BLANK**

HRC PROJECT NO.: 21/700  
 HRC PROJ CONTACT:  
 FILE NAME: 056-6019-xxx-007\_Culvert\_West\_Wingwalls.dgn  
 PLOT DRIVER: il\_pdf.dwg.plt.ctb  
 PEN TABLE: plotlabel.tbl



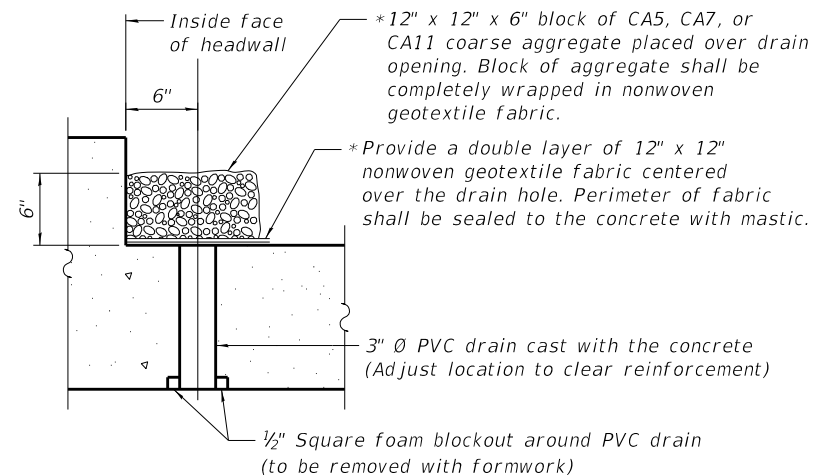
USER NAME = jstrzal	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 7/10/2023	CHECKED -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SHEET NO. 7 OF 11 SHEETS

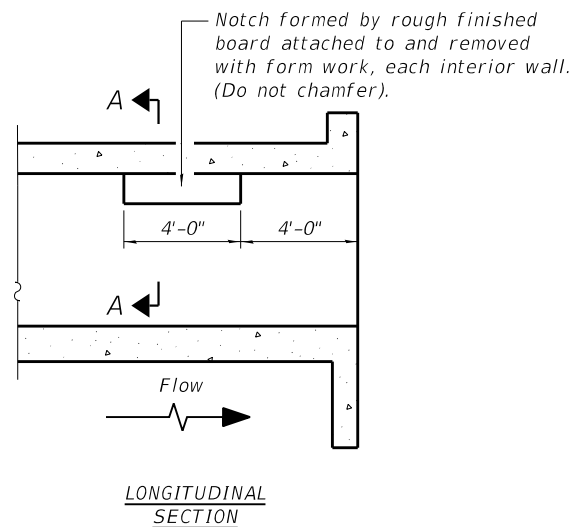
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	58
			CONTRACT NO. 61168	
		ILLINOIS FED. AID PROJECT		

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

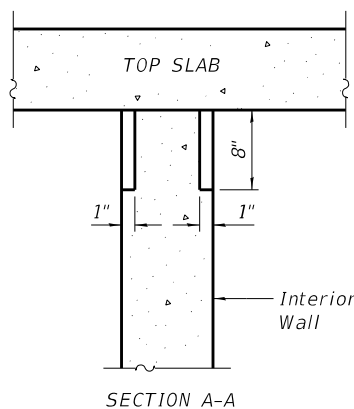


**DRAIN DETAIL**

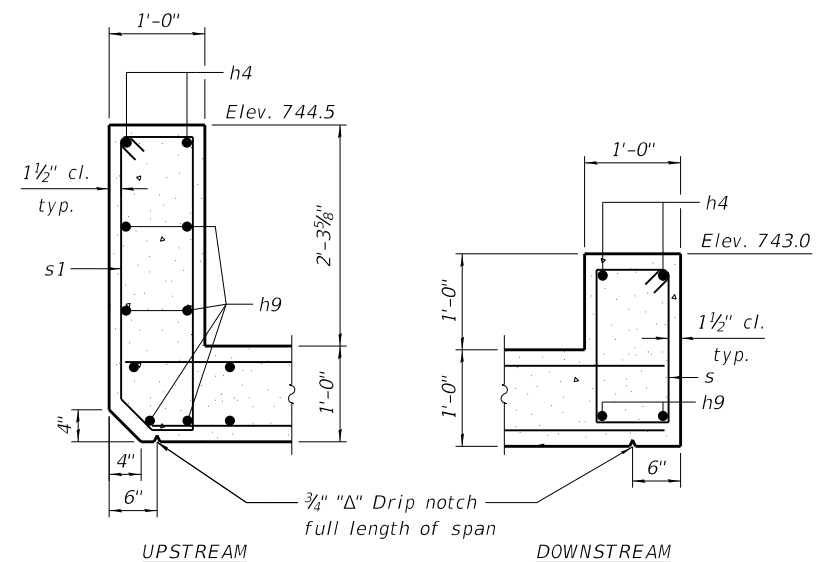
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



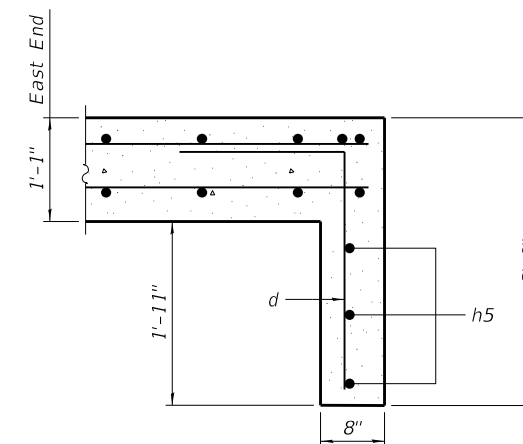
**LONGITUDINAL SECTION**



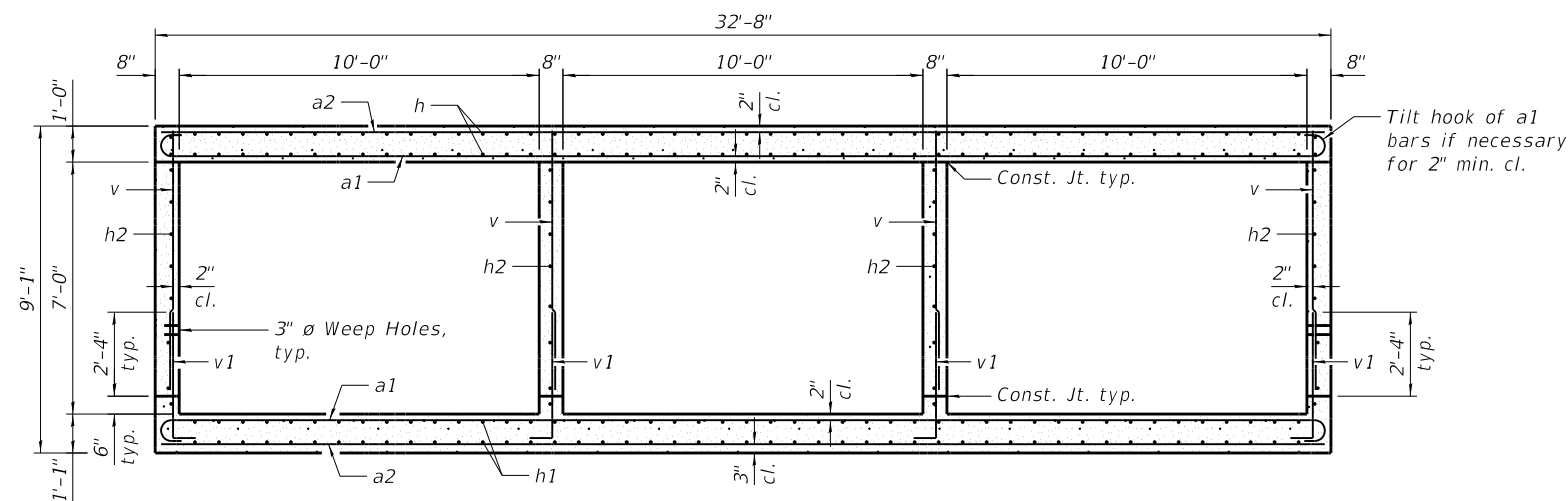
**PHOEBE NESTING  
SITE DETAILS  
(Downstream End Only)**



**SECTION THRU HEADWALL**



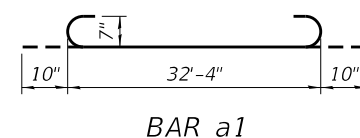
**SECTION THRU TOEWALL**



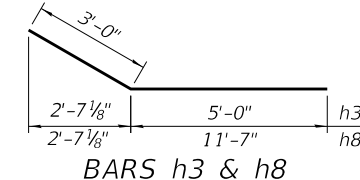
**SECTION THRU BARREL**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1	164	#7	34'-0"	
a2	164	#7	32'-4"	
d	64	#4	4'-5"	
h	132	#5	28'-3"	
h1	132	#4	28'-3"	
h2	64	#4	28'-3"	
h3	30	#8	8'-0"	
h4	4	#7	32'-5"	
h5	6	#5	32'-5"	
h6	28	#8	15'-10"	
h7	30	#8	8'-0"	
h8	28	#8	14'-10"	
h9	8	#6	32'-5"	
s	32	#4	5'-9"	
s1	32	#4	8'-2"	
v	332	#5	7'-2"	
v1	332	#5	4'-6"	
v3	12	#4	11'-8"	
v4	12	#4	15'-2"	
Concrete Box Culverts			Cu. Yd.	210
Reinforcement Bars			Pound	39,000



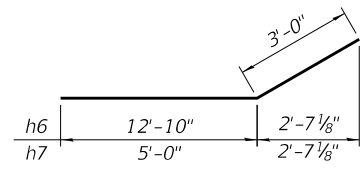
**BAR a1**



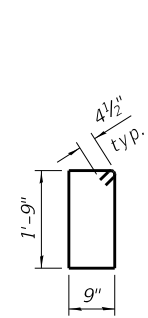
**BARS h3 & h8**



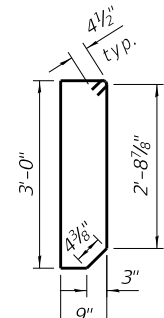
**BARS v1 & v10**



**BARS h6 & h7**



**BAR s**



**BAR s1**

HRG PROJECT NO.: 2/1700  
HRG PROJ. CONTACT:  
FILE NAME: 056-6016-008-Culvert\_Details.dgn  
PLOT DRIVER: IL\_Pdf.dwg, p1.ctb  
PEN TABLE: plotlabel.tbl

**HRGreen.com**  
Professional Design Firm  
#184-001322

USER NAME	DESIGNED	CHECKED	PLOT SCALE	PLOT DATE
jstrzal	RAT	SLS	=	7/10/2023

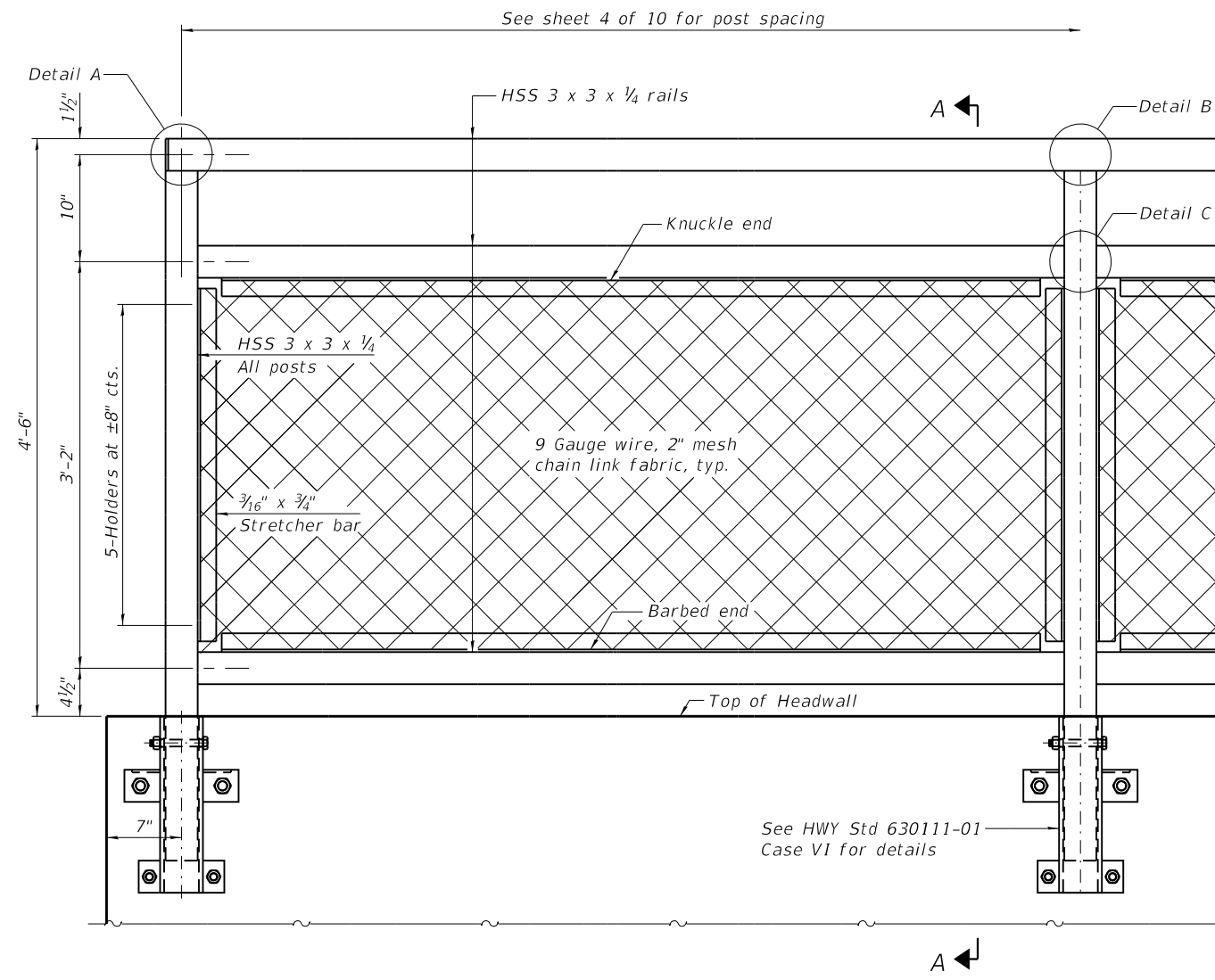
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS  
STRUCTURE NO. 056-6019**

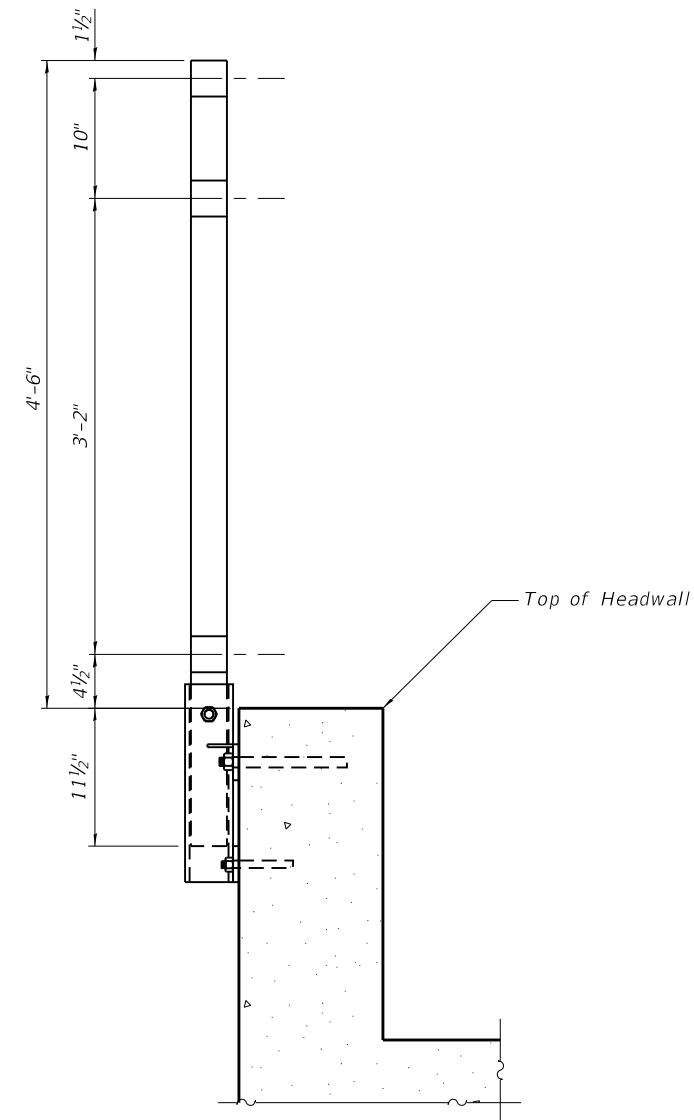
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-RS	MCHENRY	87	59

CONTRACT NO. 61168  
ILLINOIS FED. AID PROJECT

SHEET NO. 8 OF 11 SHEETS

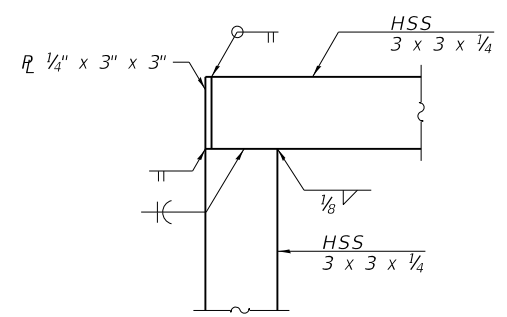


**ELEVATION BICYCLE RAILING**  
(Outside face)

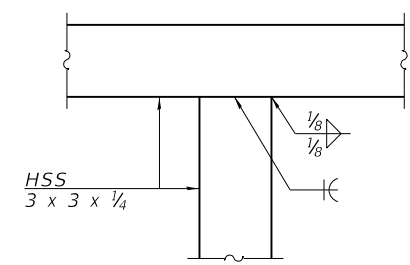


**SECTION A-A**

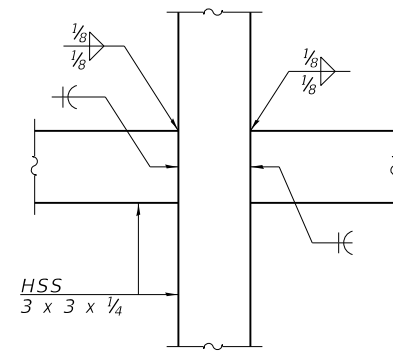
Notes:  
 Railing frame and attachment brackets shall be powder coated black after fabrication.  
 Attachment bolts and nuts shall be painted black after installation.  
 Cost included in unit price of Bicycle Railing.



**DETAIL A**



**DETAIL B**



**DETAIL C**

**RAILING CRITERIA**

Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	31

HRC PROJECT NO.: 21/700  
 HRC PROJ. CONTACT:  
 FILE NAME: 056-6019-xxx-009\_Culvert\_Railing\_Details.dgn  
 PLOT DRIVER: IL\_Pdf.dwg, p1c1c.fg  
 PEN TABLE: p1c1c.tbl

HRGreen.com  
 Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - RAT	REVISED - XX/XX/XXXX
	CHECKED - SLS	REVISED - XX/XX/XXXX
PLOT SCALE =	DRAWN - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - AEU	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING DETAILS**  
**STRUCTURE NO. 056-6019**

SHEET NO. 9 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	60
			CONTRACT NO. 61168	

ILLINOIS FED. AID PROJECT

MSET PROJECT NO.: 22570		LOG OF BORING NO. SB-1		Page 1 of 2				
PROJECT: Riverside Drive - Culvert		SITE LOCATION: Johnsburg, IL						
BORING LOCATION: SB Lane, North of Culvert		CLIENT: Village of Johnsburg						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc %	
0		Shoulder Gravel (5")	746.1					
		FILL: Brown Clay LOAM, A-6 firm	745.7	SS 1A	10	8	121	0.78
		FILL: Brown SAND, A-3, medium dense	744.6	SS 1B	16	6		
4		Probable FILL: Brown SAND, A-2 to A-3, slightly dense to very loose	743.1	SS 2	8	5		
				SS 3	1	17		
8		with Gravel		SS 4	1	21		
				SS 5	1	19		
12		Brown Grey Sandy LOAM, with shells A-1-b, very loose	735.6	SS 6	4			No Recovery
				SS 7	3	72		
16		Dark Grey Organic Sandy LOAM, with shells, A-2-4, very loose	730.6	SS 8	0	42		
				SS 9	0	65		
20		Grey Organic SILT with shells, A-8, very loose	725.6	SS 10	20	19		
				SS 11	16	25		

MSET PROJECT NO.: 22570		LOG OF BORING NO. SB-1		Page 2 of 2				
PROJECT: Riverside Drive - Culvert		SITE LOCATION: Johnsburg, IL						
BORING LOCATION: SB Lane, North of Culvert		CLIENT: Village of Johnsburg						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc %	
32		Grey SAND, A-2 to A-3, medium dense		SS 12	10	25		
36		Grey SAND with Silt, A-2-4 to A-3	709.6	SS 13	6	23		
40				SS 14	10	21		
44				SS 15	6	21		
48		End of Boring at 50 Feet	696.1					

MSET PROJECT NO.: 22570		LOG OF BORING NO. SB-2		Page 1 of 1				
PROJECT: Riverside Drive - Culvert		SITE LOCATION: Johnsburg, IL						
BORING LOCATION: NB Lane, South of Culvert		CLIENT: Village of Johnsburg						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE		TESTS		REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc %	
0		Pavement: 8" Bituminous Concrete over 12" Granular Base Course	744.5					
		FILL: Brown SAND with Gravel, A-1-b, slightly dense to very loose	742.8	SS 1	7	8		
4				SS 2	3	10		
				SS 3	2	16		
8		Brown Sandy LOAM, little Gravel, with shells, A-2-4, loose to very loose	736.5	SS 4	4	19		
		to Grey		SS 5	1	15		
12		Black & Grey to Grey Organic Sandy LOAM, with shells, A-2-4 to A-8, very loose	731.5	SS 6	WOH	152		
		to Grey		SS 7	WOH	117		
16				SS 8	WOH	86		
20		Brown SAND, little Clay, A-2-6 to A-2, slightly to medium dense	724.0	SS 9	8	41		
				SS 10	12	18		
24				SS 11	10	17		
28				SS 12	13	15		
		End of Boring at 30 Feet	714.5					

HRC PROJECT NO.: 21/700  
 HRC PROJ. CONTACT:  
 FILE NAME: 056-6016-00-Culvert-1.Blogs.dgn  
 PLOT DRIVER: IL\_Pdf.dwg, dwg, plot, fgs  
 PEN TABLE: PlotTable.tbl



USER NAME = jstrzal	DESIGNED - RAT	REVISED - XX/XX/XXXX
PLOT SCALE =	CHECKED - SLS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DRAWN - WJH	REVISED - XX/XX/XXXX
	CHECKED - AEU	REVISED - XX/XX/XXXX

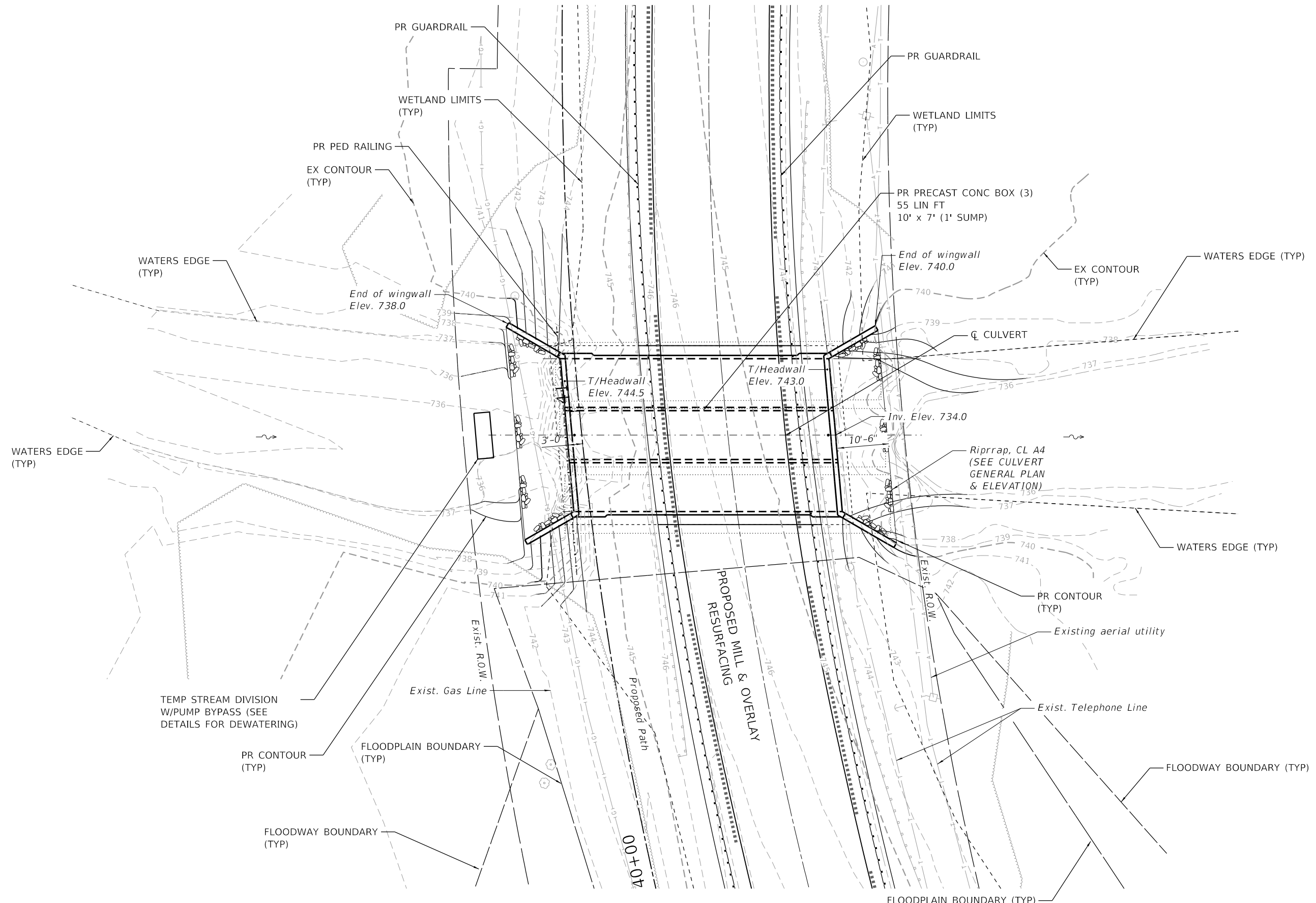
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS  
STRUCTURE NO. 056-6019**

SHEET NO. 10 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	61
			CONTRACT NO. 61168	

ILLINOIS FED. AID PROJECT



HRG PROJECT NO: 21/700  
 HRG PROJ CONTACT:  
 FILE NAME: 056-6019-xxx-011-Culvert-Grading.dgn  
 PEN TABLE: 1/10/2023



USER NAME = jstrzal	DESIGNED - RAT	REVISED - XX/XX/XXXX
	DRAWN - SLS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - WJH	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE - AEU	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

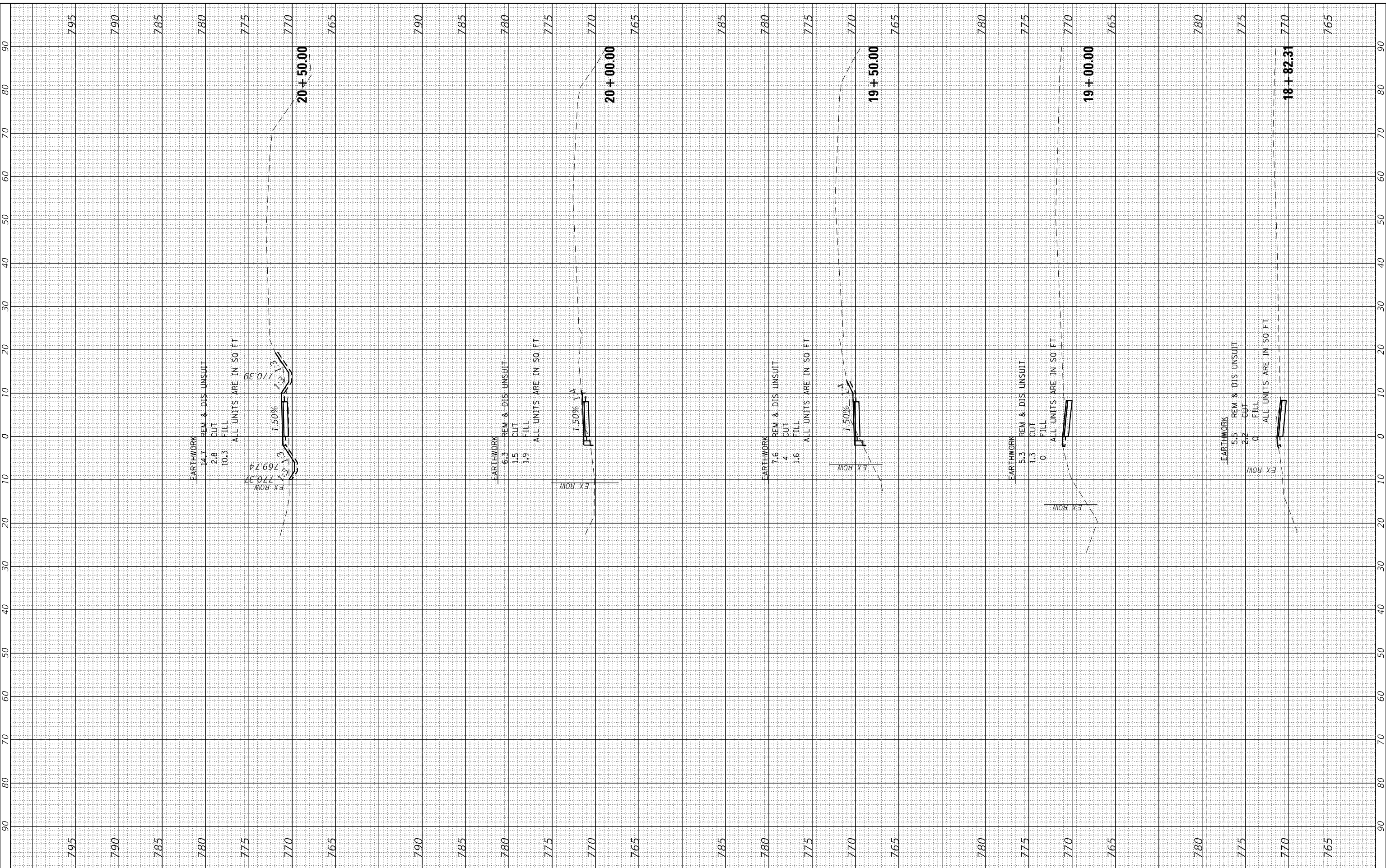
<b>CULVERT GRADING PLAN</b> <b>STRUCTURE NO. 056-6019</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		156	20-00016-00-R5	MCHENRY	87	62
SCALE: 1"=10'		SHEET 11 OF 11 SHEETS		STA.	TO STA.	

CONTRACT NO. 61168		ILLINOIS FED. AID PROJECT	
--------------------	--	---------------------------	--

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 20201110-18+82.31-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\AutoCAD\_Plotter.dwg  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

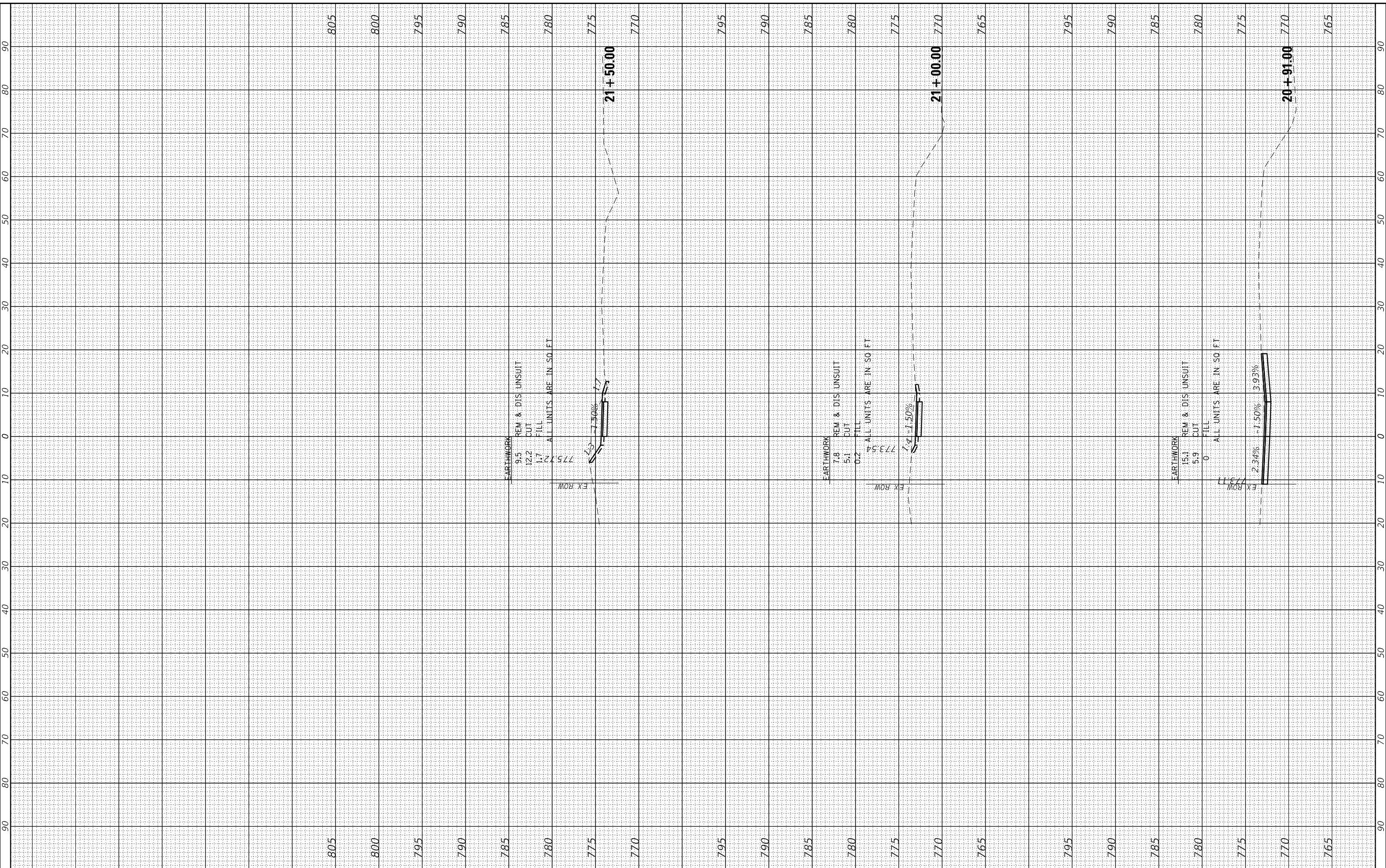
SCALE: 10H:5V    SHEET 1 OF 25 SHEETS    STA. 18+82.31 TO STA. 20+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	63
			CONTRACT NO. 61168	
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 20210720-20+91.00-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2021\Plot\Plotter\AutoCAD-2021.ctb  
 PLOT DATE: 7/10/2023



**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 2 OF 25 SHEETS STA. 20+91.00 TO STA. 21+50.00

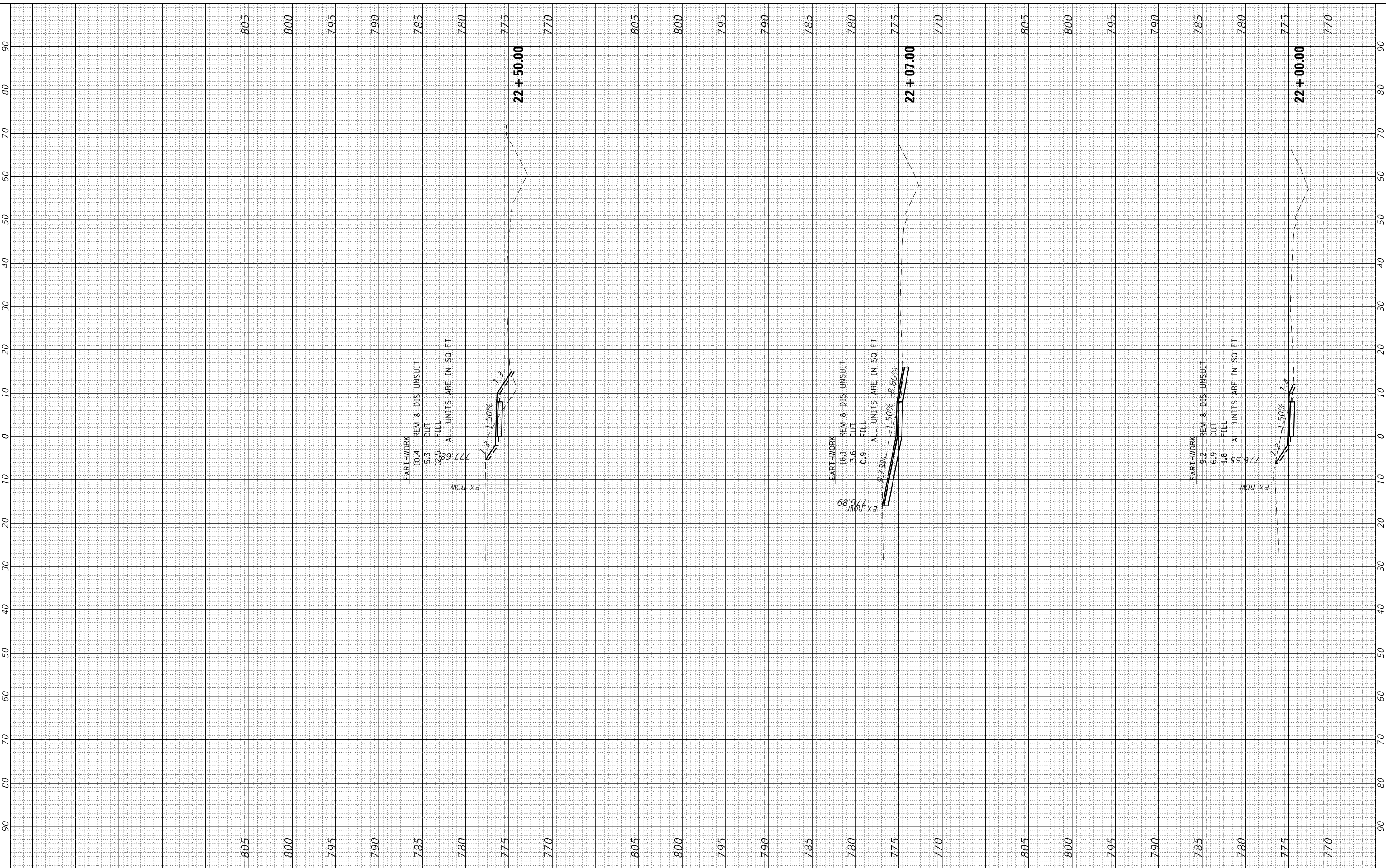
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	64
			CONTRACT NO. 61168	
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

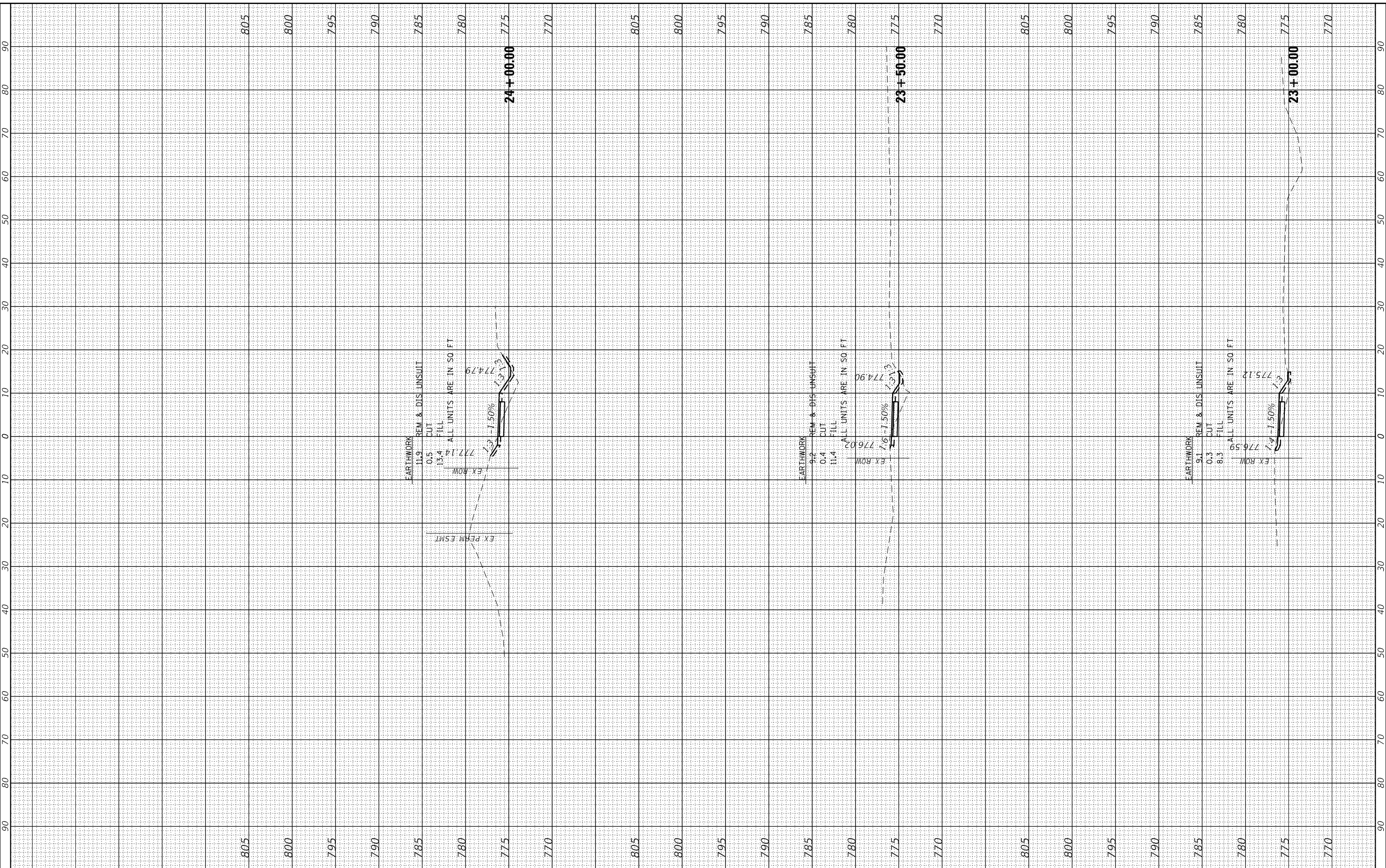
HRG PROJECT No: 21700  
 FILE NAME: 20210710-20-00016-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2021\Plot\Plotter\Plotter.dgn  
 PLOT DATE: 7/10/2023



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2023-07-10-2023-07-10-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2023\Plot\Plotter\Plotter.dwg  
 PLOT SCALE: 1/8" = 1'-0"



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

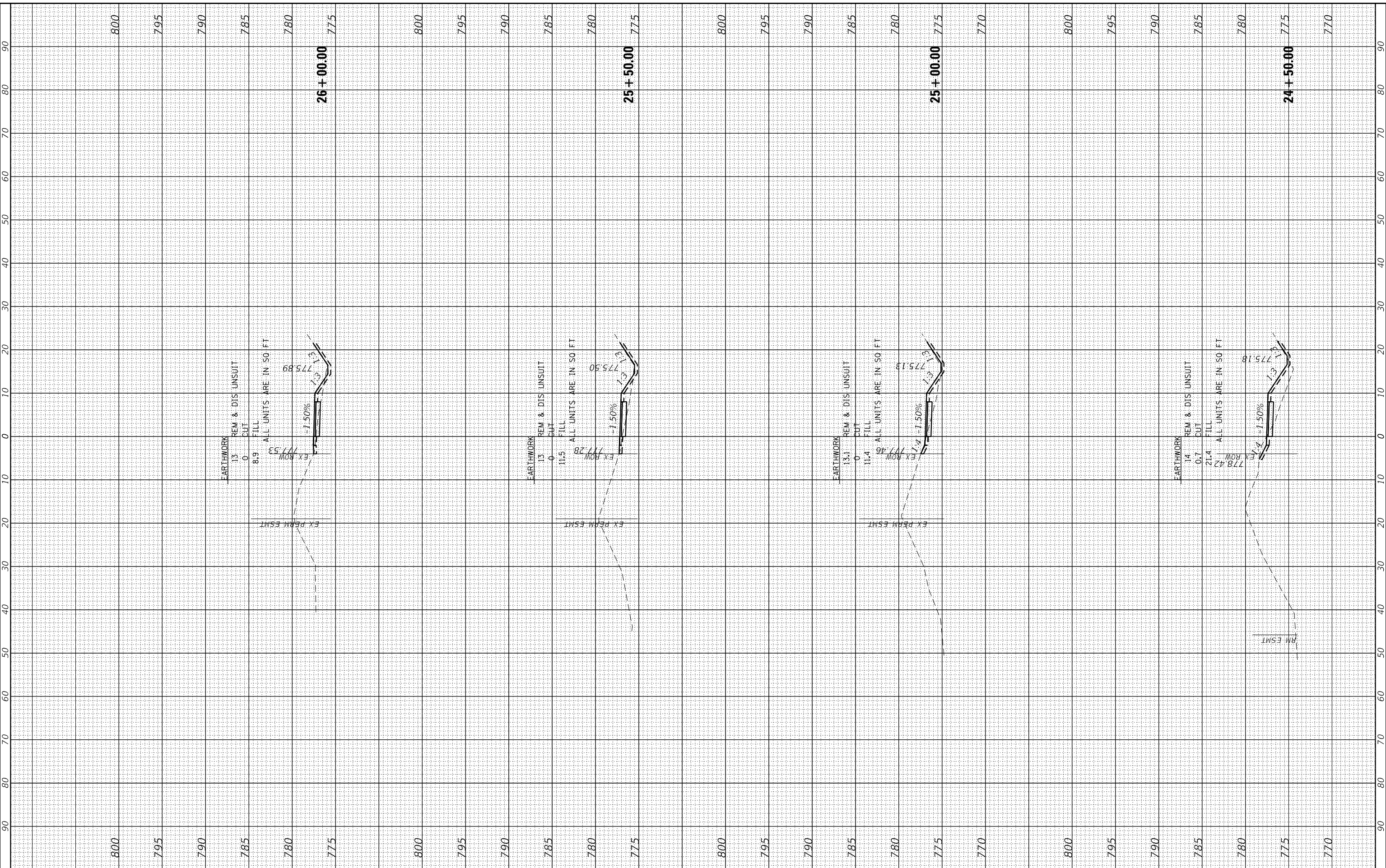
SCALE: 10H:5V SHEET 4 OF 25 SHEETS STA. 23+00.00 TO STA. 24+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	66
CONTRACT NO. 61168				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-0016-00-R5-RiverSide.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\AutoCAD-2020-Plotter.dwg  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

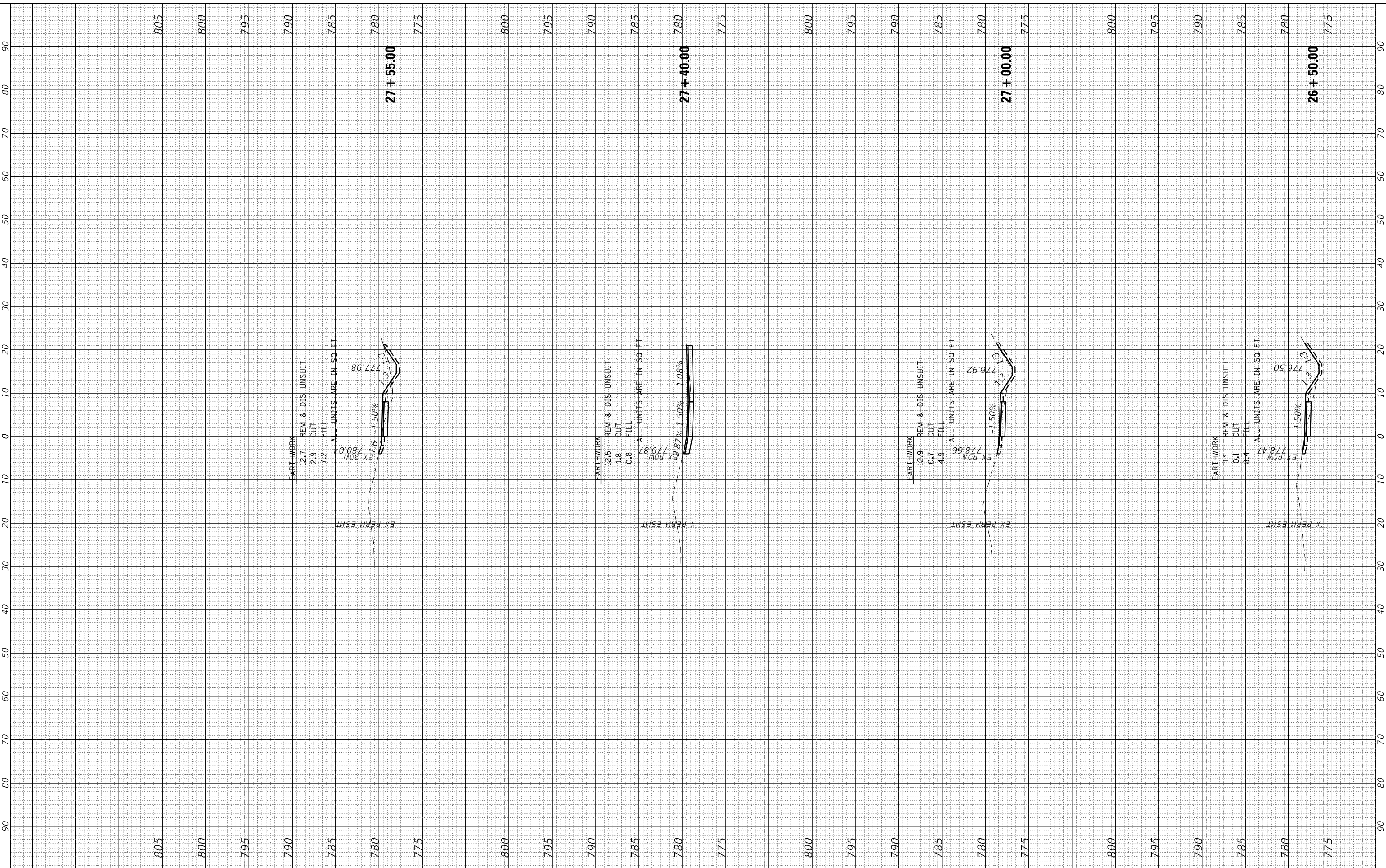
SCALE: 10H:5V    SHEET 5 OF 25 SHEETS    STA. 24+50.00 TO STA. 26+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	67
			CONTRACT NO. 61168	
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-01-15-2020-01-15-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\AutoCAD-2020.ctb  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

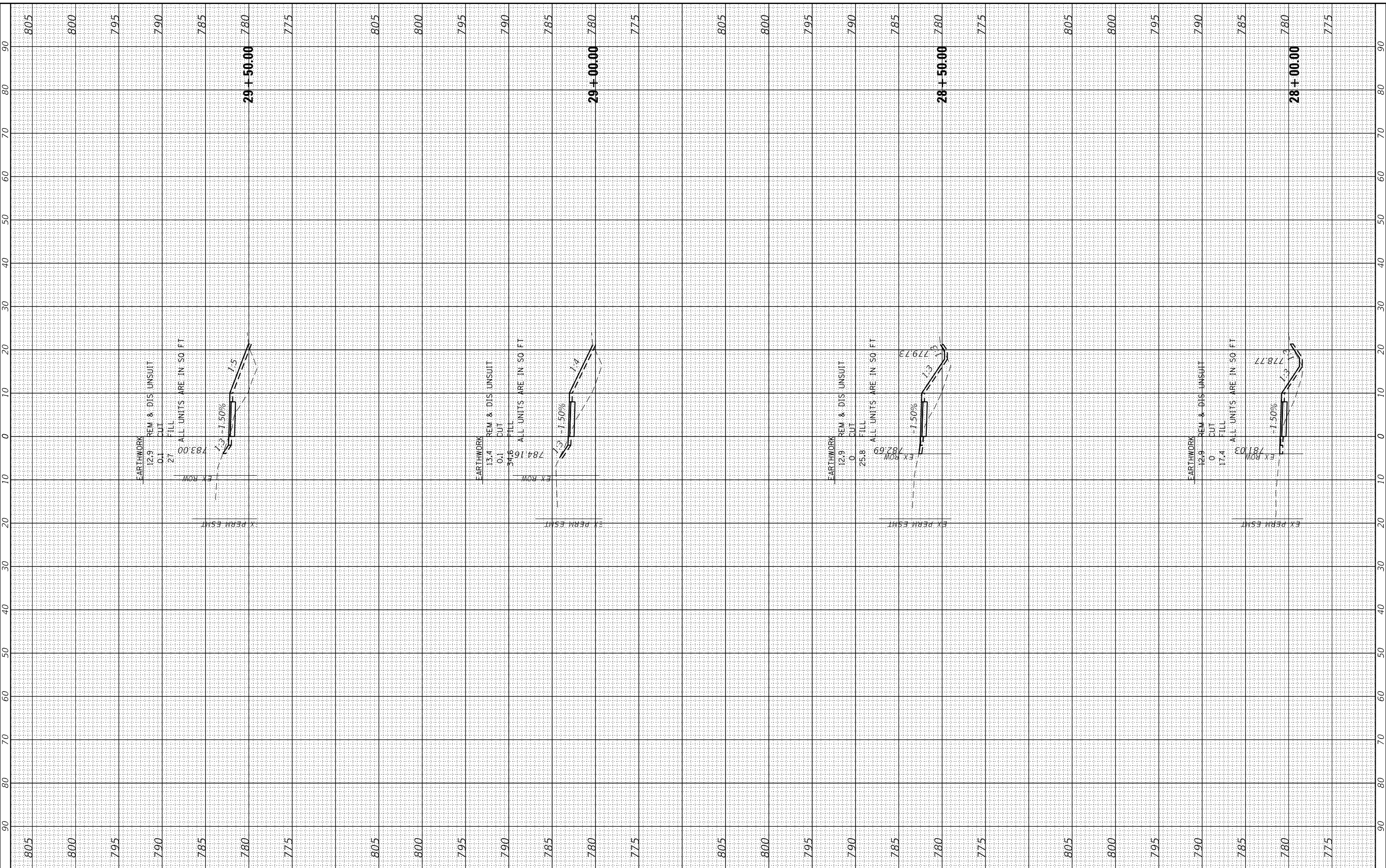
<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 6 OF 25 SHEETS STA. 26+50.00 TO STA. 27+55.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	68
			CONTRACT NO. 61168	
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 20210710-2021-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2021\Plot\Plotter\Plotter.dwg  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

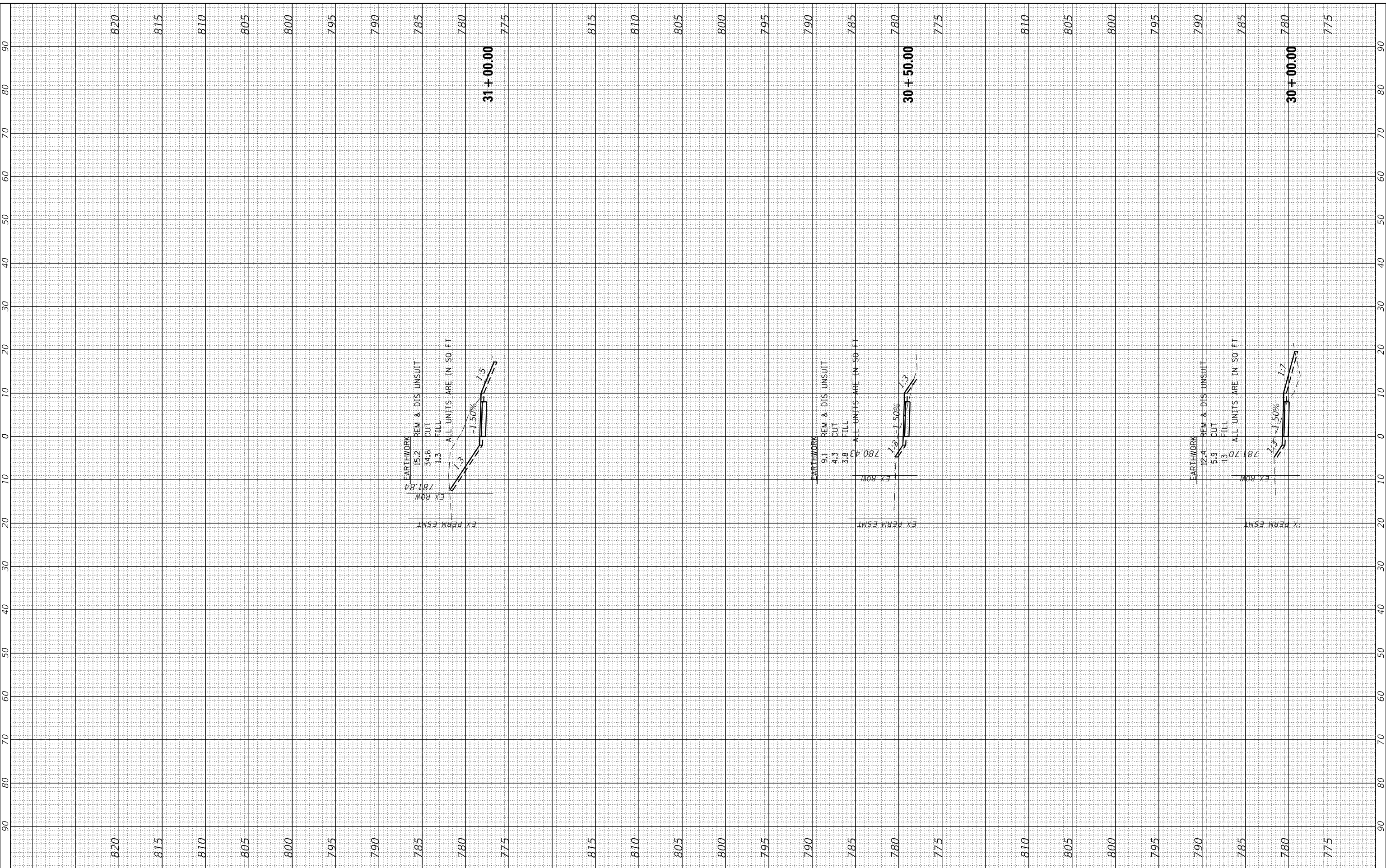
<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 7 OF 25 SHEETS STA. 28+00.00 TO STA. 29+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	69
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-0016-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\Plotter.dgn  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

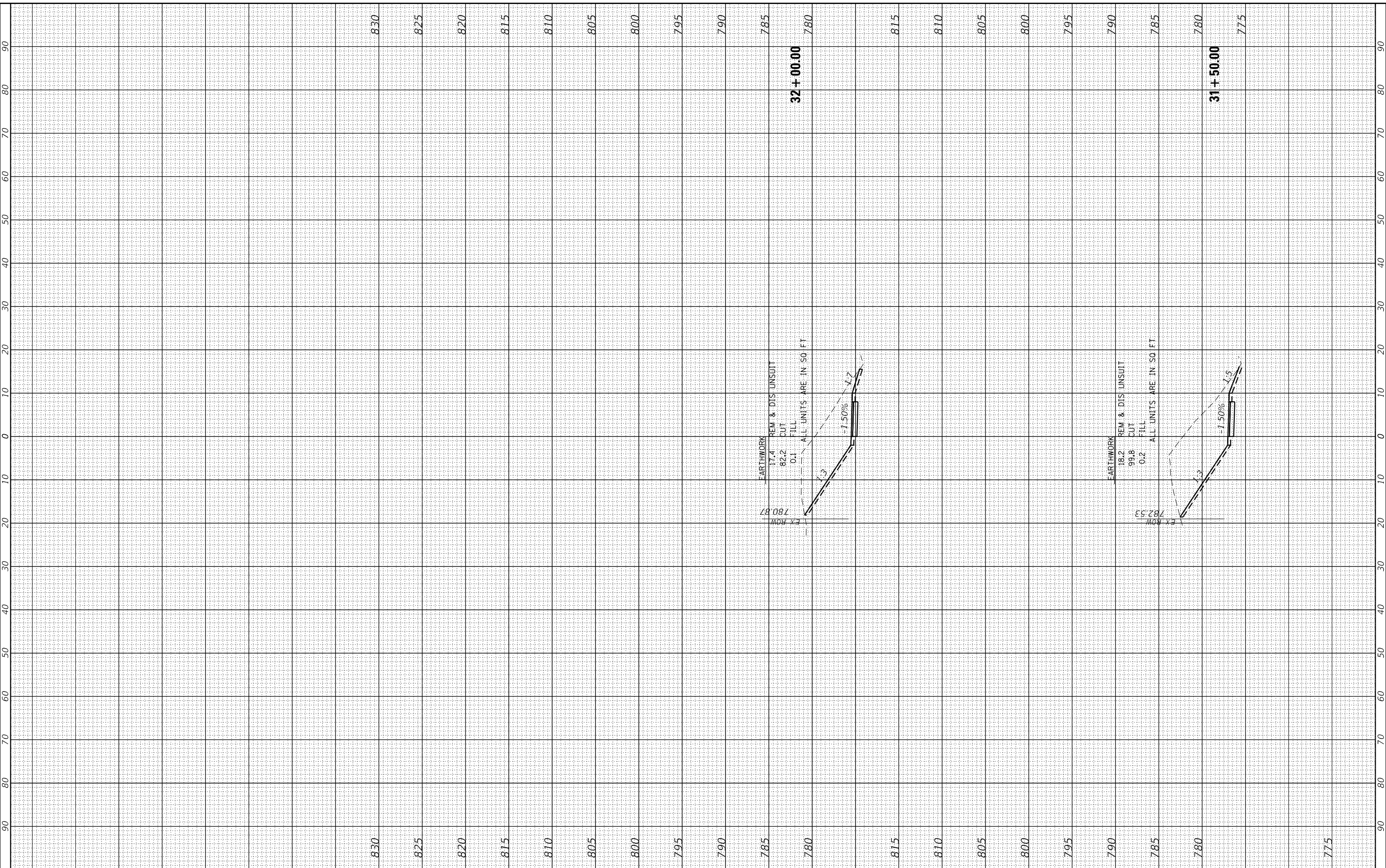
SCALE: 10H:5V    SHEET 8 OF 25 SHEETS    STA. 30+00.00 TO STA. 31+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	70
CONTRACT NO. 61168				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-07-14-11-11-11-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2010\Plot\Plotter\AutoCAD.ctb  
 PLOT DATE: 7/10/2023



USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
RIVERSIDE DRIVE**

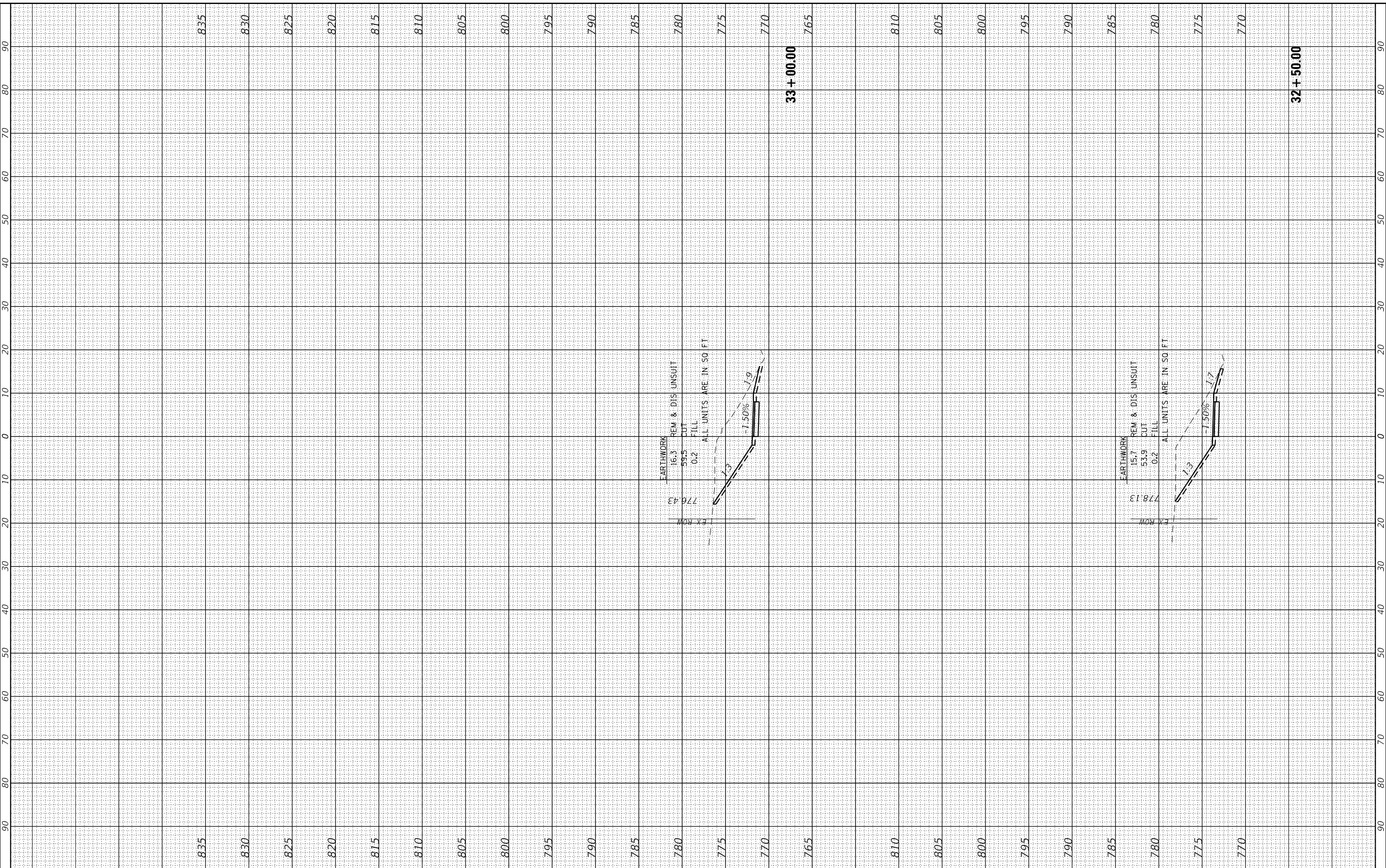
SCALE: 10H:5V SHEET 9 OF 25 SHEETS STA. 31+50.00 TO STA. 32+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	71
			CONTRACT NO. 61168	
			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	AREAS		
CHECKED	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	AREAS		
CHECKED	CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-07-14-15-16-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\Plotter.dgn  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 10 OF 25 SHEETS STA. 32+50.00 TO STA. 33+00.00

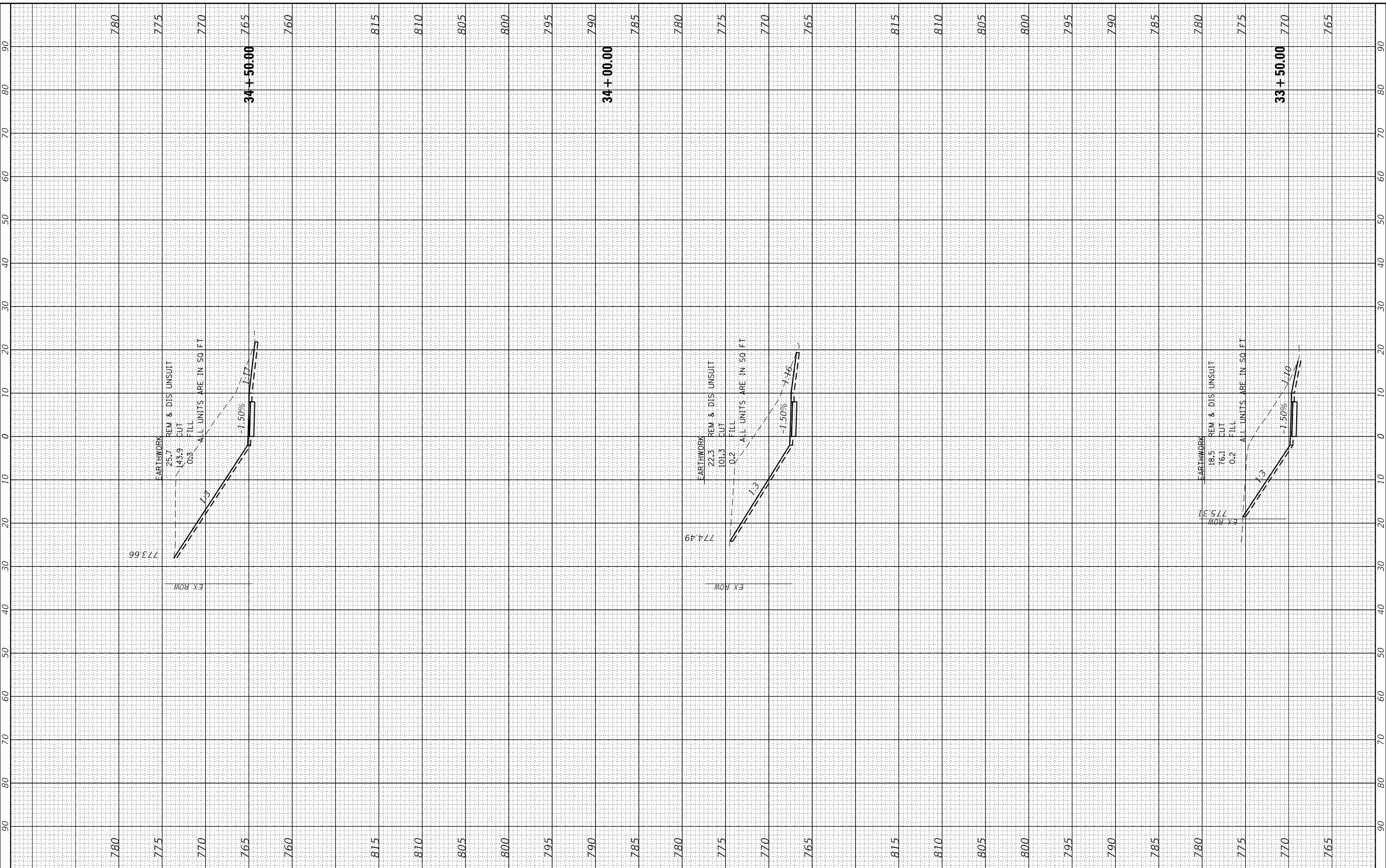
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	72
			CONTRACT NO. 61168	
ILLINOIS			FED. AID PROJECT	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-0016-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\Plotter.dgn  
 PLOT DATE: 7/10/2023



DESIGNED - MLZ	REVISÉD - XX/XX/XXXX
DRAWN - DMS	REVISÉD - XX/XX/XXXX
CHECKED - JJS	REVISÉD - XX/XX/XXXX
DATE -	REVISÉD - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
RIVERSIDE DRIVE**

SCALE: 10H:5V    SHEET 11 OF 25    SHEETS    STA. 33+50.00 TO STA. 34+50.00

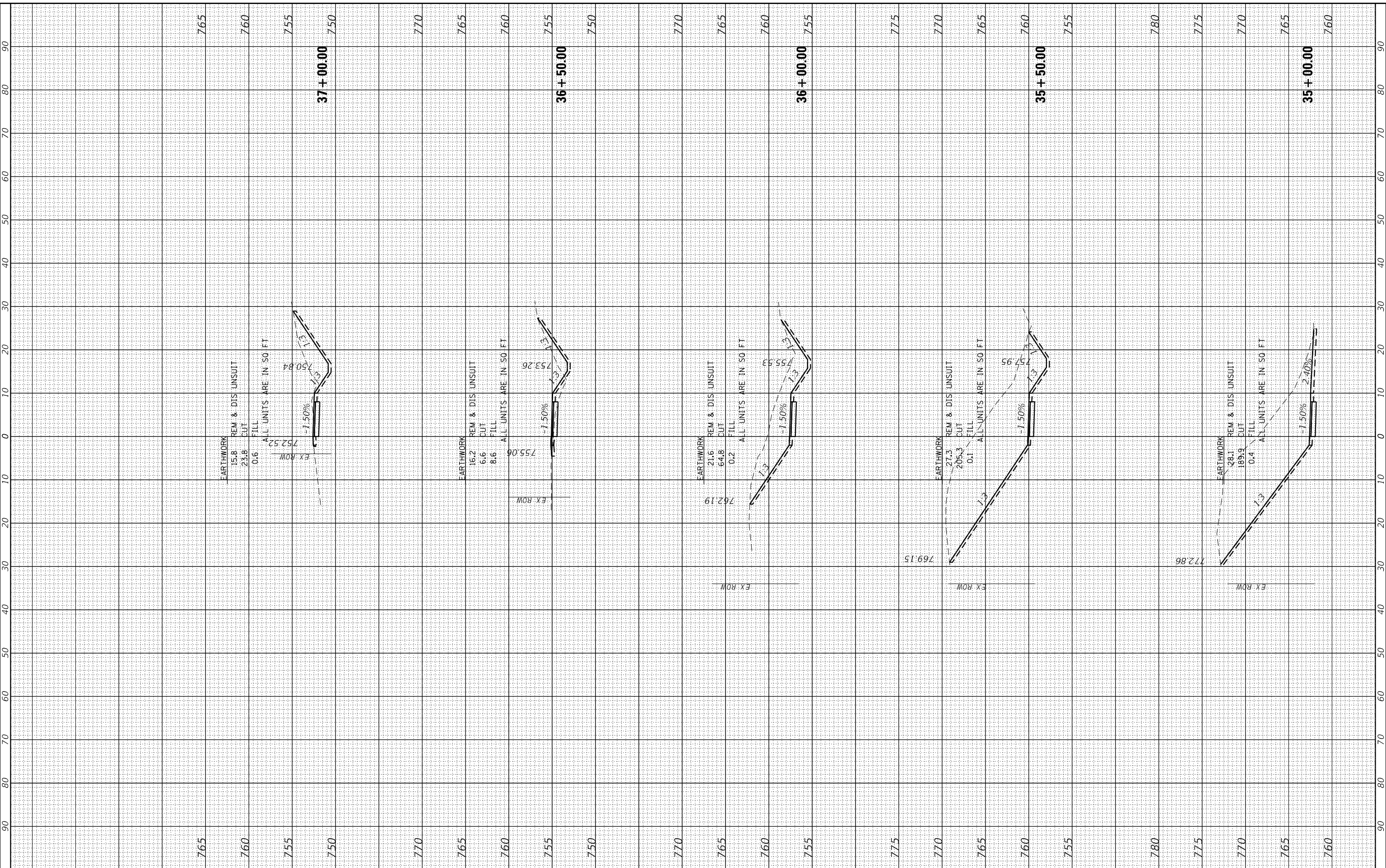
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	73
			CONTRACT NO. 61168	
ILLINOIS		FED. AID PROJECT		



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
ML	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
ML	AREAS CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-0016-00-R5-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\Plotter.dwg  
 PLOT DATE: 7/10/2023



**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

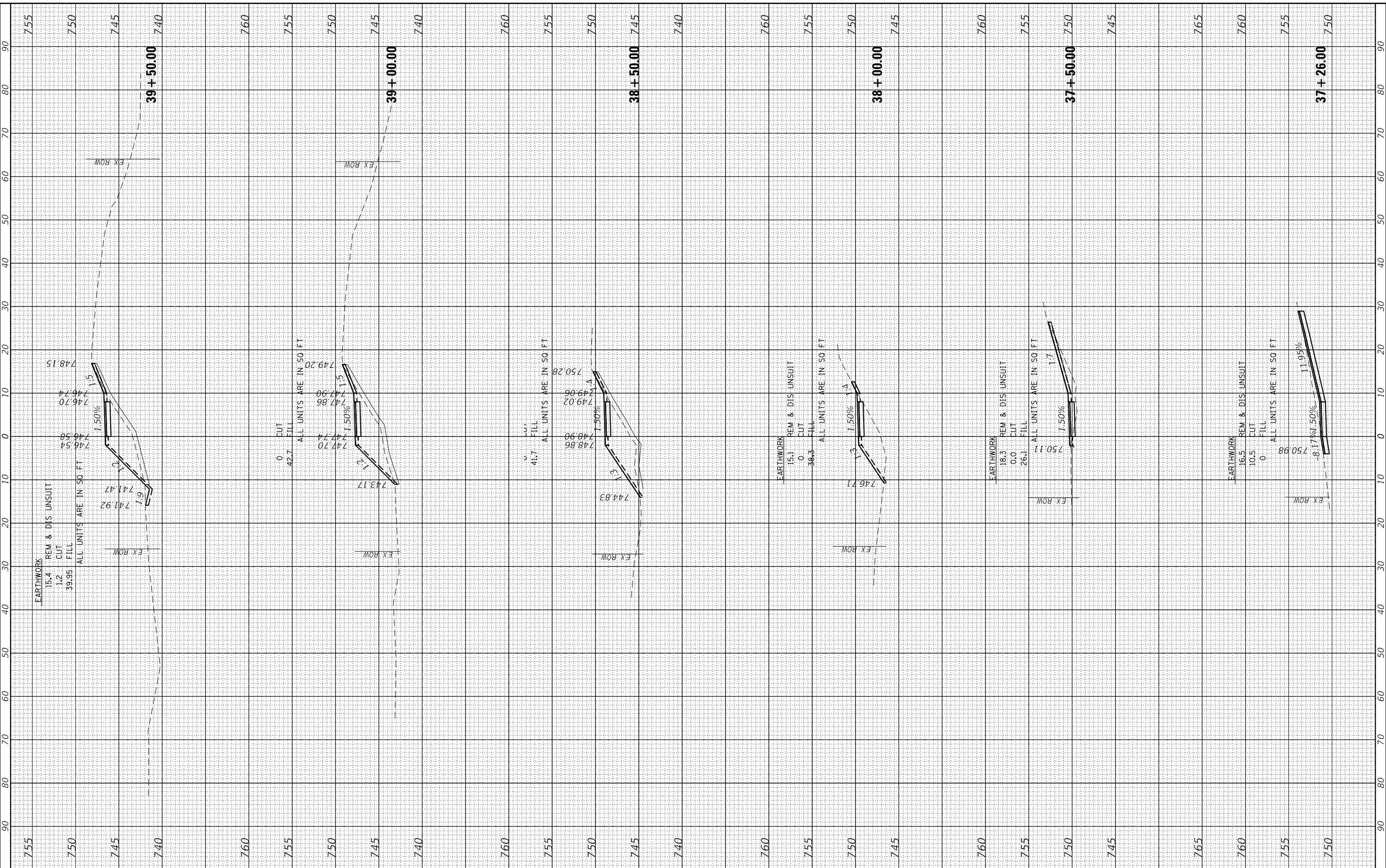
SCALE: 10H:5V    SHEET 12 OF 25 SHEETS    STA. 35+00.00 TO STA. 37+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	74
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2023-07-10-2023-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2023\Plot\Plotter\Plotter.dwg  
 PLOT SCALE: 10H:5V



HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

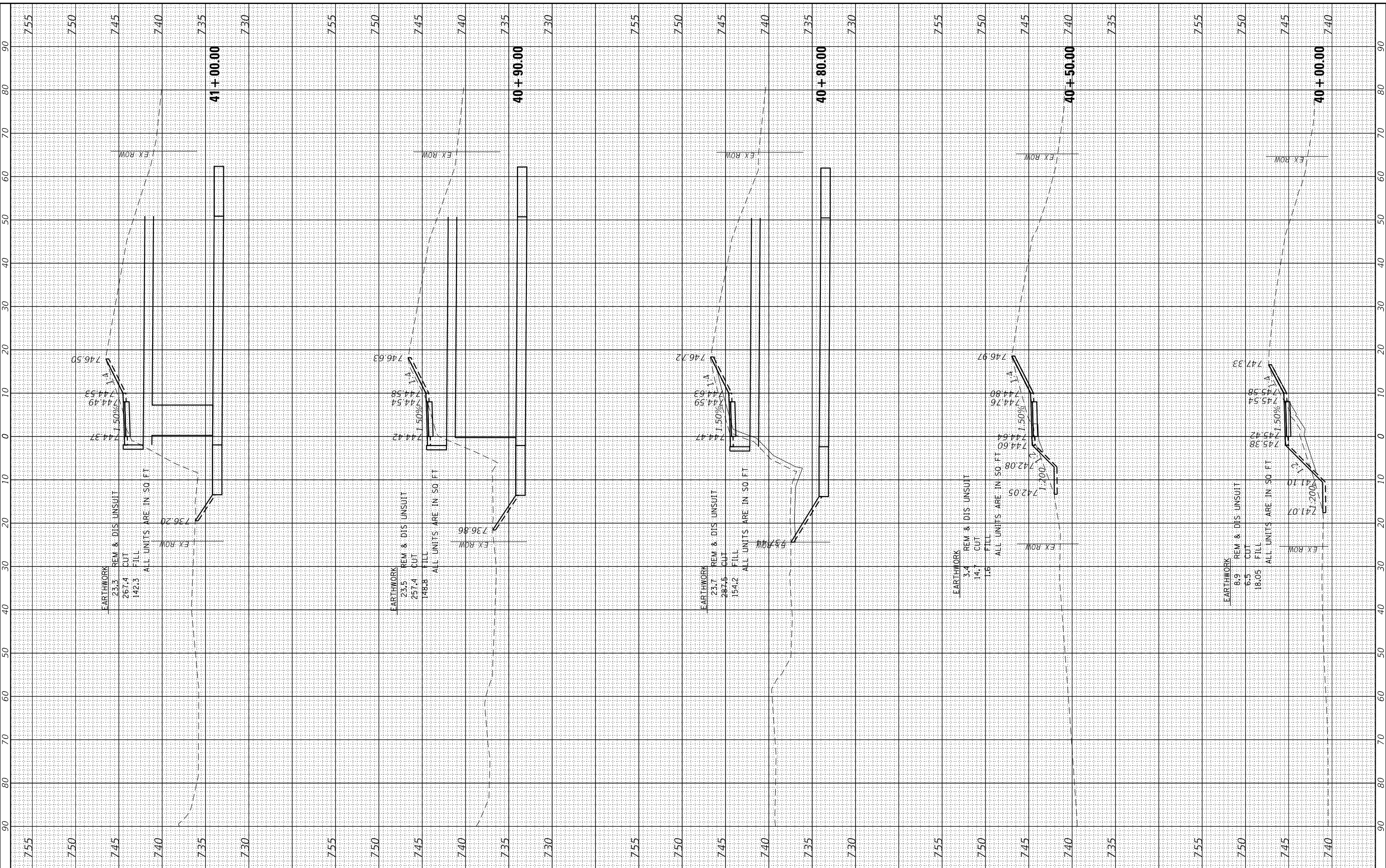
SCALE: 10H:5V SHEET 13 OF 25 SHEETS STA. 37+26.00 TO STA. 39+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	75
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	AREAS		
	CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-00016-00-R5-RiverSide.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2010\Plot\Plotter\Plotter.dwg  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

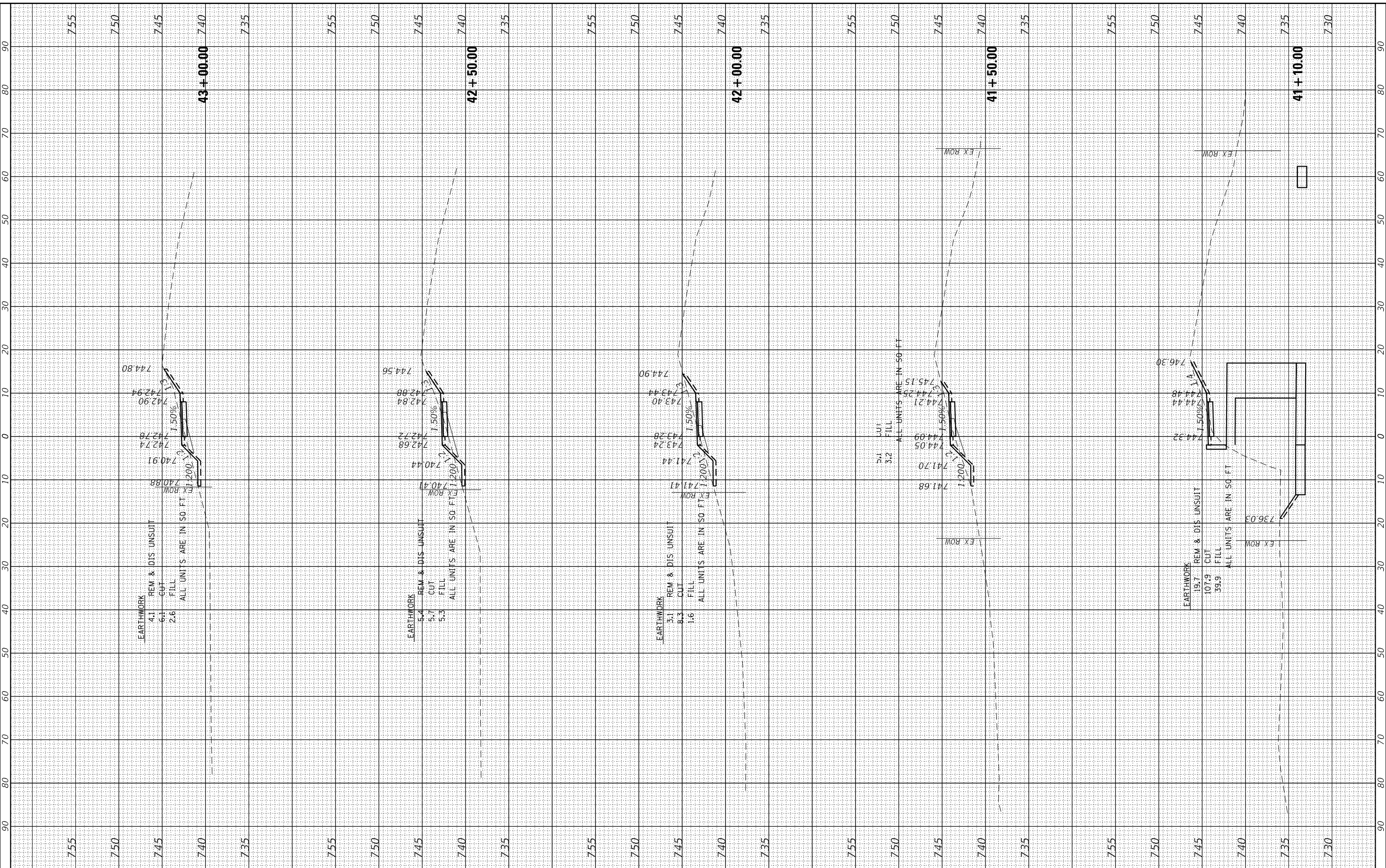
SCALE: 10H:5V    SHEET 14 OF 25    SHEETS    STA. 40+00.00    TOTAL STA. 41+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	76
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		
	AREAS CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-00016-00-R5-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\AutoCAD\_Plotter.dwg  
 PLOT DATE: 7/10/2023



EARTHWORK	4.1	REM & DIS UNSUIT
	6.1	CUT
	2.6	FILL
ALL UNITS ARE IN 50 FT		

EARTHWORK	5.4	REM & DIS UNSUIT
	5.7	CUT
	5.3	FILL
ALL UNITS ARE IN 50 FT		

EARTHWORK	3.1	REM & DIS UNSUIT
	8.3	CUT
	1.6	FILL
ALL UNITS ARE IN 50 FT		

EARTHWORK	19.7	REM & DIS UNSUIT
	107.9	CUT
	39.9	FILL
ALL UNITS ARE IN 50 FT		

HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME	= jstrzal
DESIGNED	- MLZ
DRAWN	- DMS
CHECKED	- JJS
DATE	-

REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX

REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX
REVISED	- XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

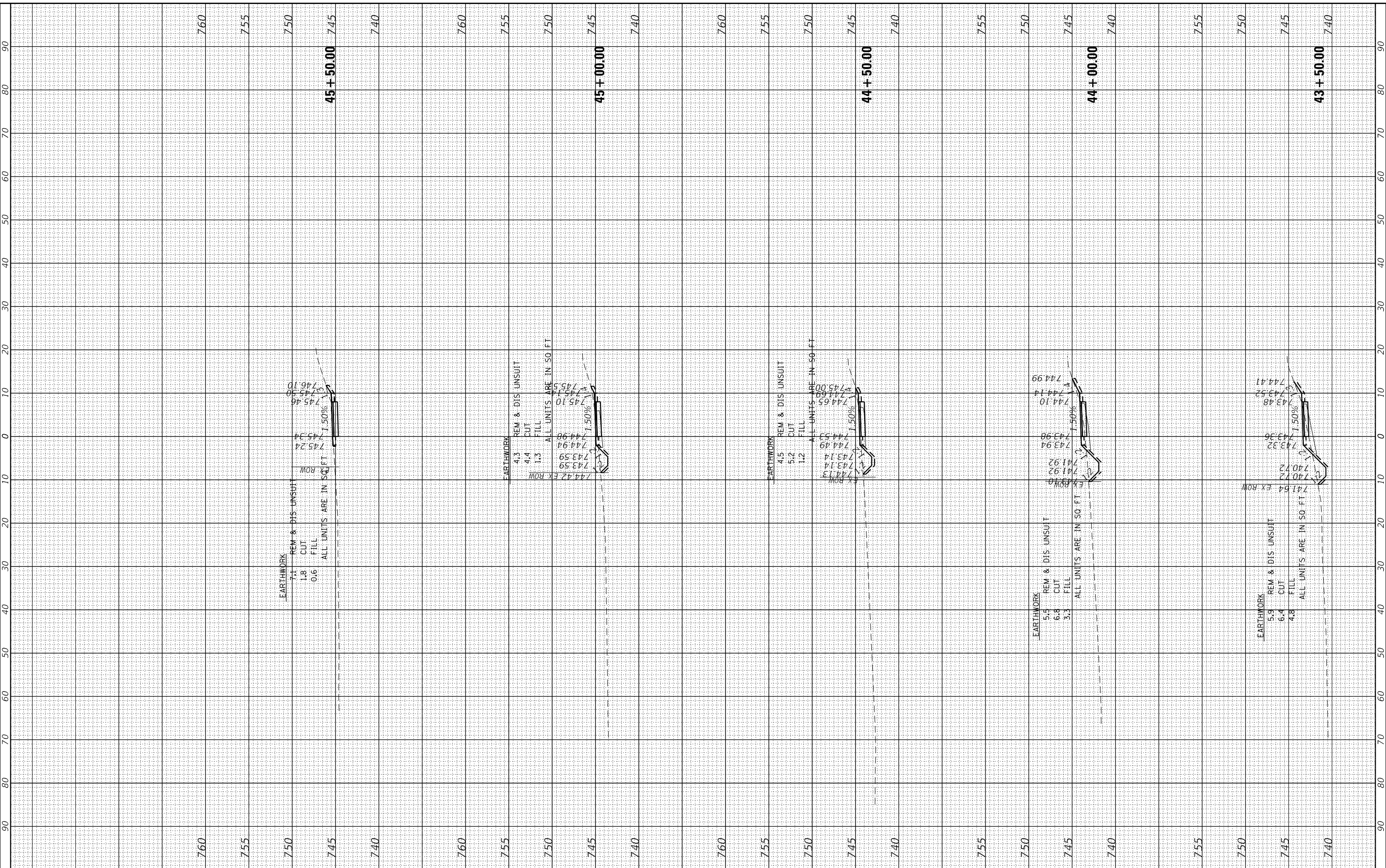
<b>CROSS SECTIONS</b>	
<b>RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 15 OF 25 SHEETS STA. 41+10.00 TO STA. 43+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	77
			CONTRACT NO.	61168
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-07-10-11-10-11-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\Plotter.dwg  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

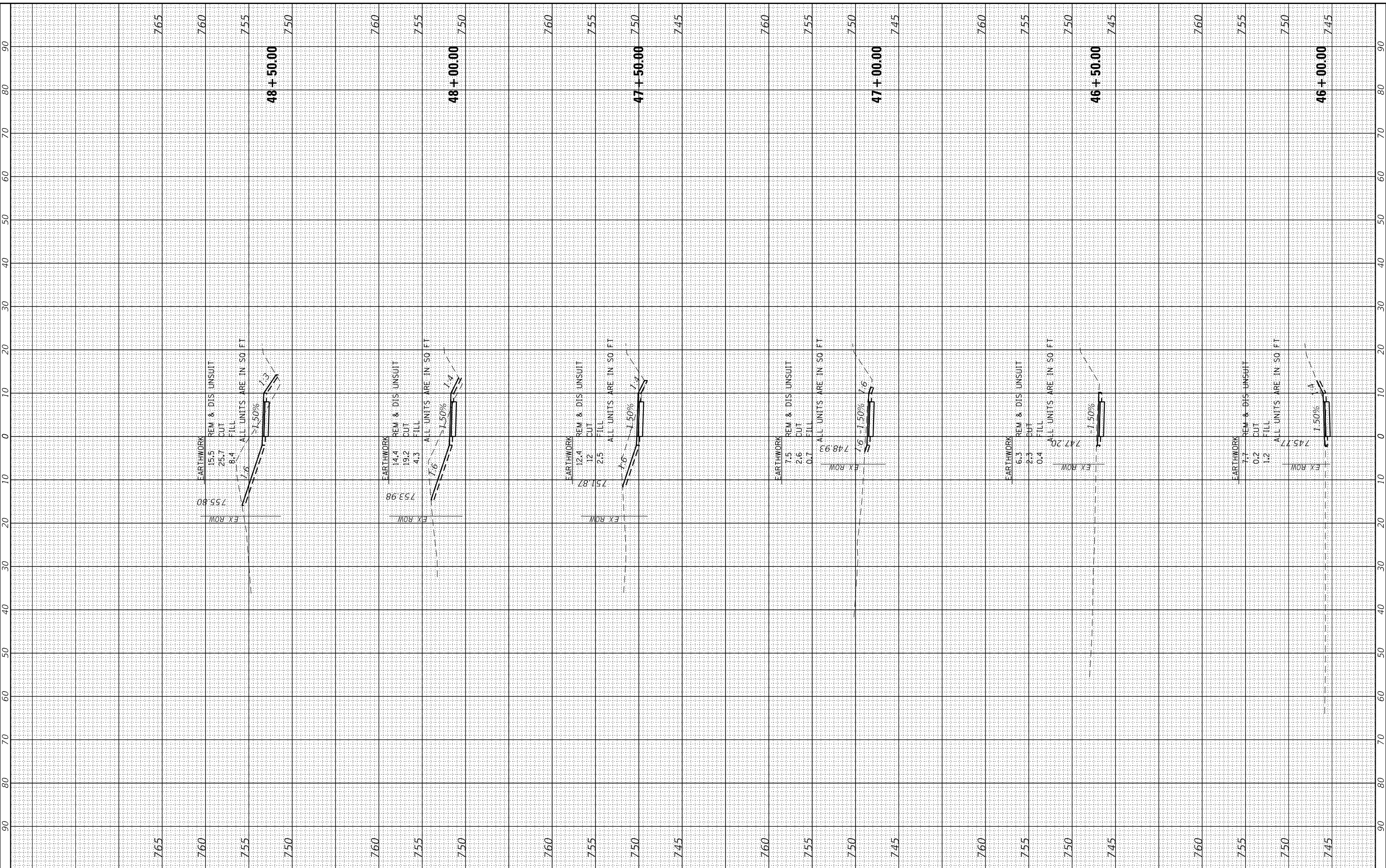
SCALE: 10H:5V SHEET 16 OF 25 SHEETS STA. 43+50.00 TO STA. 45+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	78
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-07-10-15-16-17-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\Plotter.dwg  
 PLOT DATE: 7/10/2023



HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

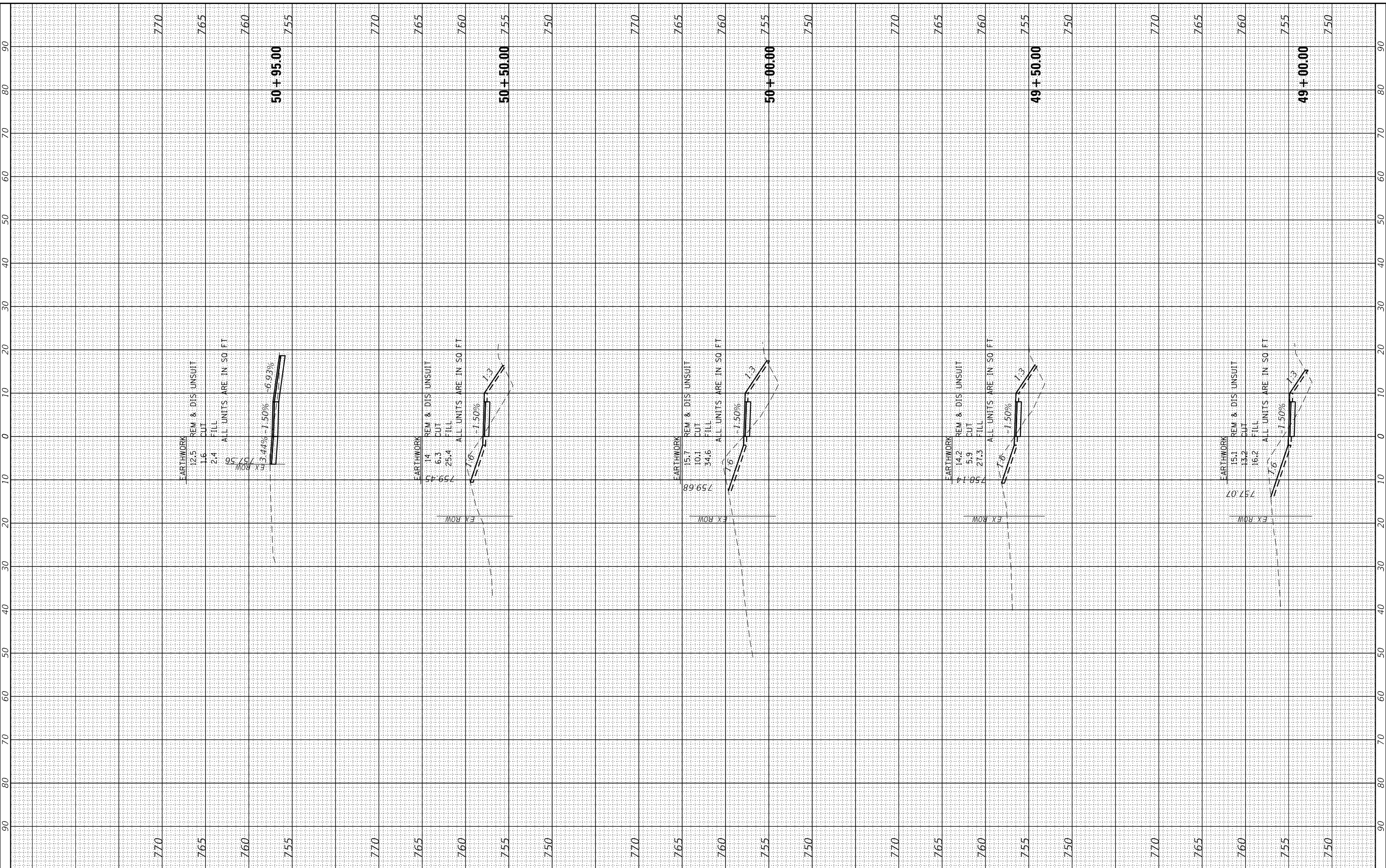
<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 17 OF 25 SHEETS STA. 46+00.00 TO STA. 48+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	79
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61168	

FINAL SURVEY	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
ML	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
ML	AREAS CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 2020-00016-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\AutoCAD.ctb  
 PLOT DATE: 7/10/2023



USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 18 OF 25 SHEETS STA. 49+00.00 TO STA. 50+95.00

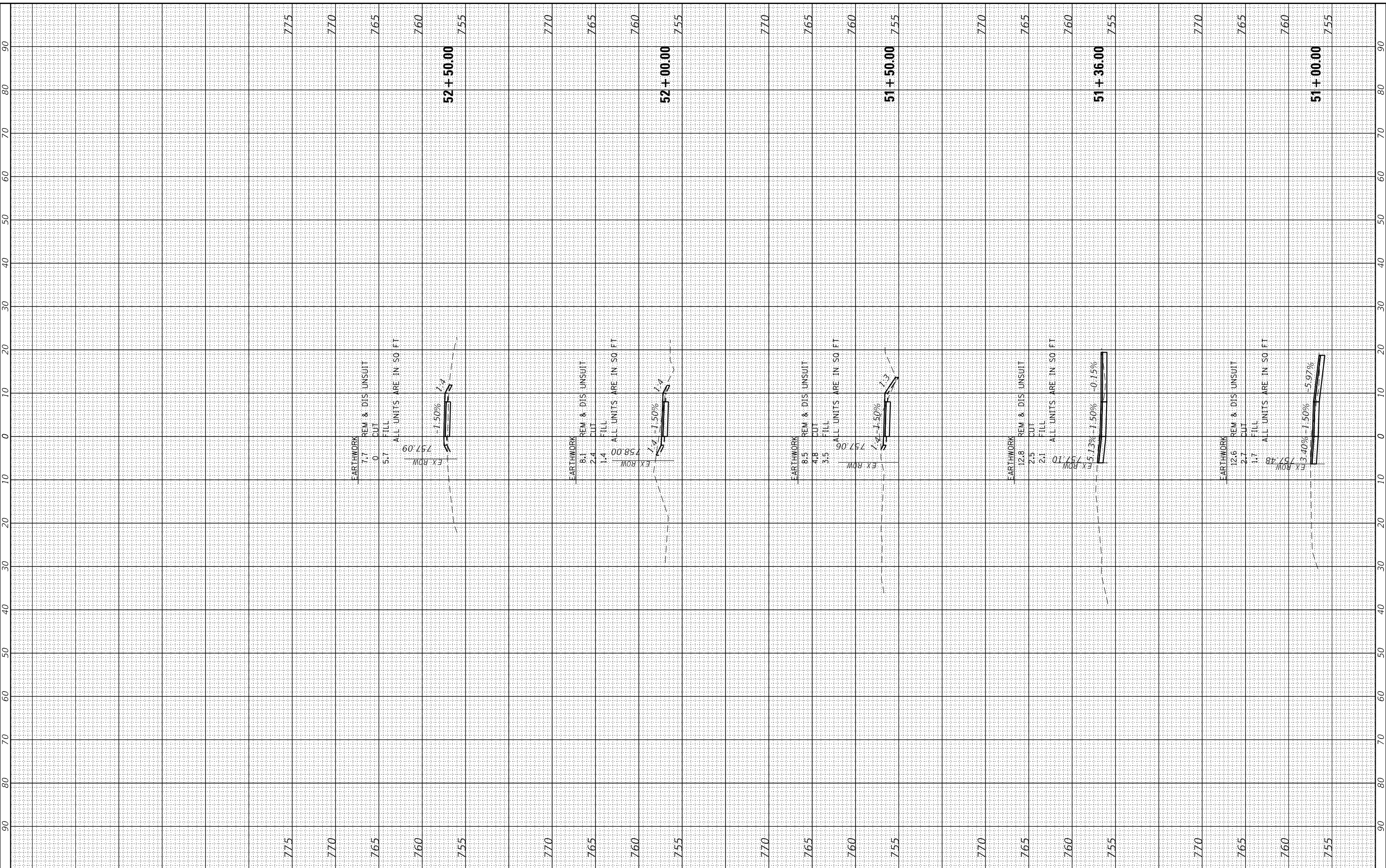
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	80
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		

HRG PROJECT No: 21700  
 FILE NAME: 20230710-156-Riverside.dgn  
 PLOT DRIVER: C:\Program Files (x86)\HP\Plot Drivers\HPGL2.drv  
 PLOT DATE: 7/10/2023



**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

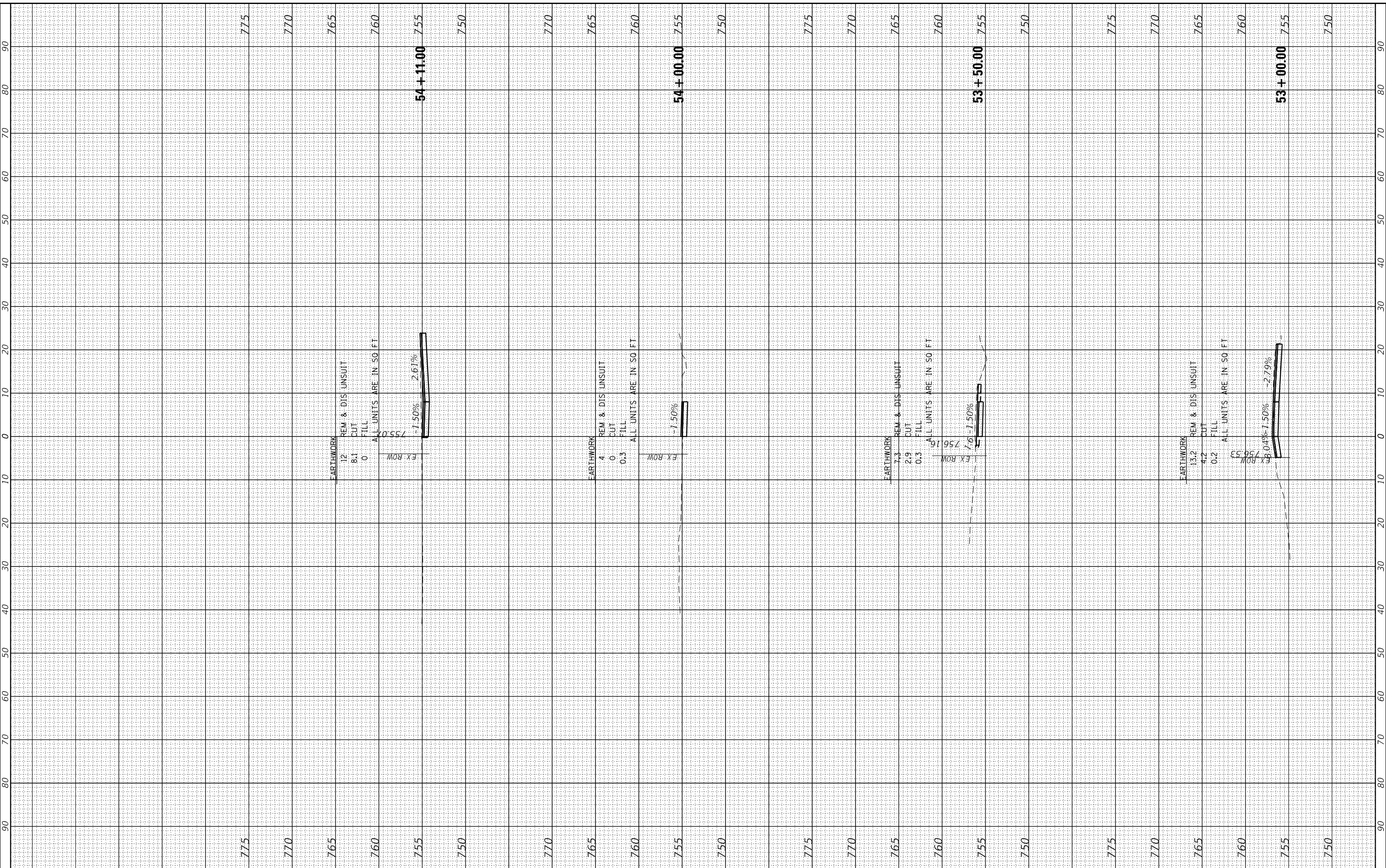
SCALE: 10H:5V    SHEET 19 OF 25 SHEETS    STA. 51+00.00 TO STA. 52+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	81
			CONTRACT NO.	61168
			ILLINOIS	FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-0016-00-R5-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2010\Plot\Plotter.dwg  
 PLOT SCALE: 10H:5V



**HRGreen**  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	CHECKED - JJS	REVISED - XX/XX/XXXX
	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 20 OF 25 SHEETS STA. 53+00.00 TO STA. 54+11.00

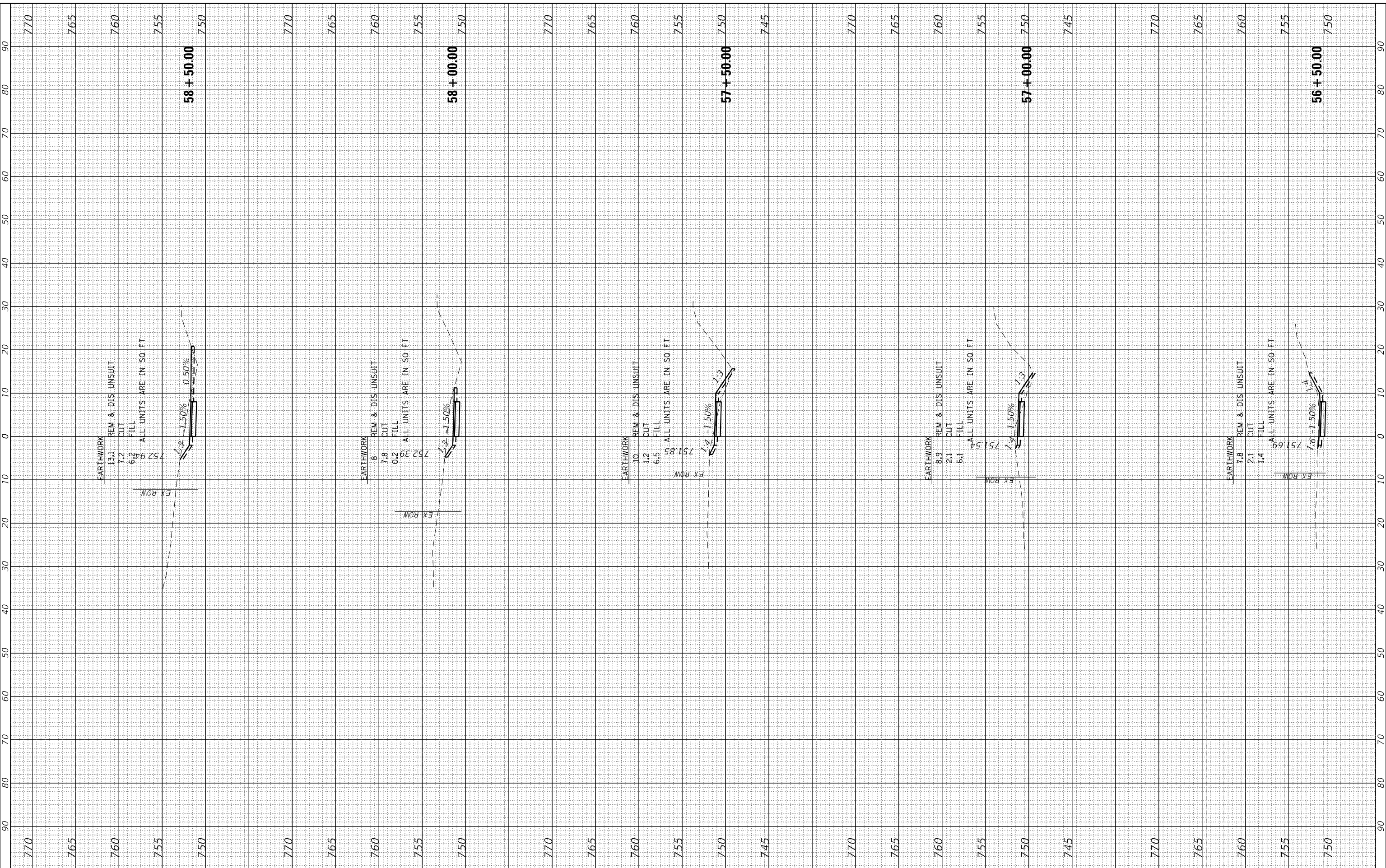
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	82
			CONTRACT NO. 61168	
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-00-16-Riverside.dgn  
 PLOT DRIVER: Cpld.dwt  
 FILE NAME: 21700-00-16-Riverside.dgn



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

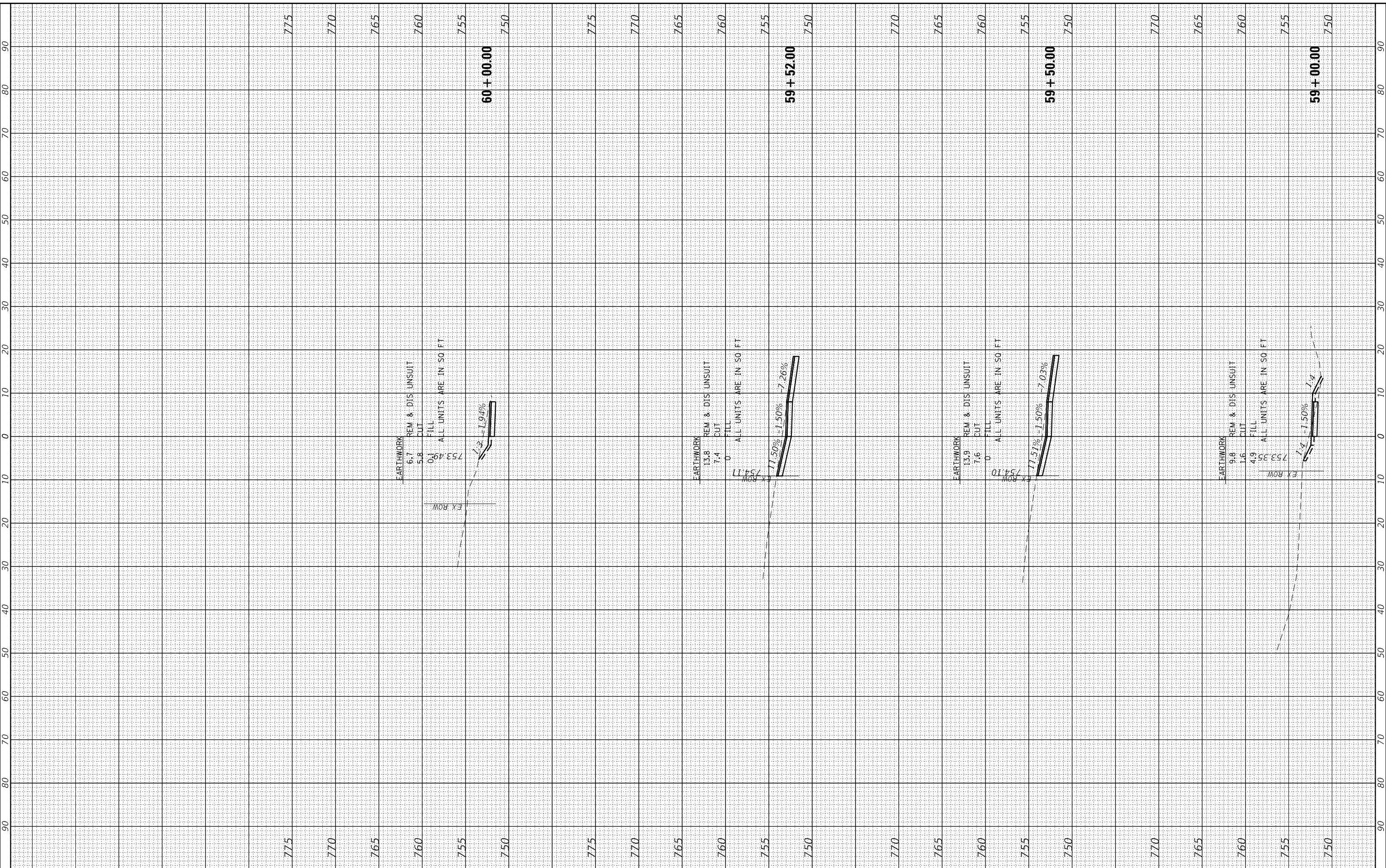
<b>CROSS SECTIONS RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 22 OF 25 SHEETS STA. 56+50.00 TO STA. 58+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	84
			CONTRACT NO. 61168	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 20220710-01-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2022\Plot\Plotter\AutoCAD\_Plotter.dgn



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

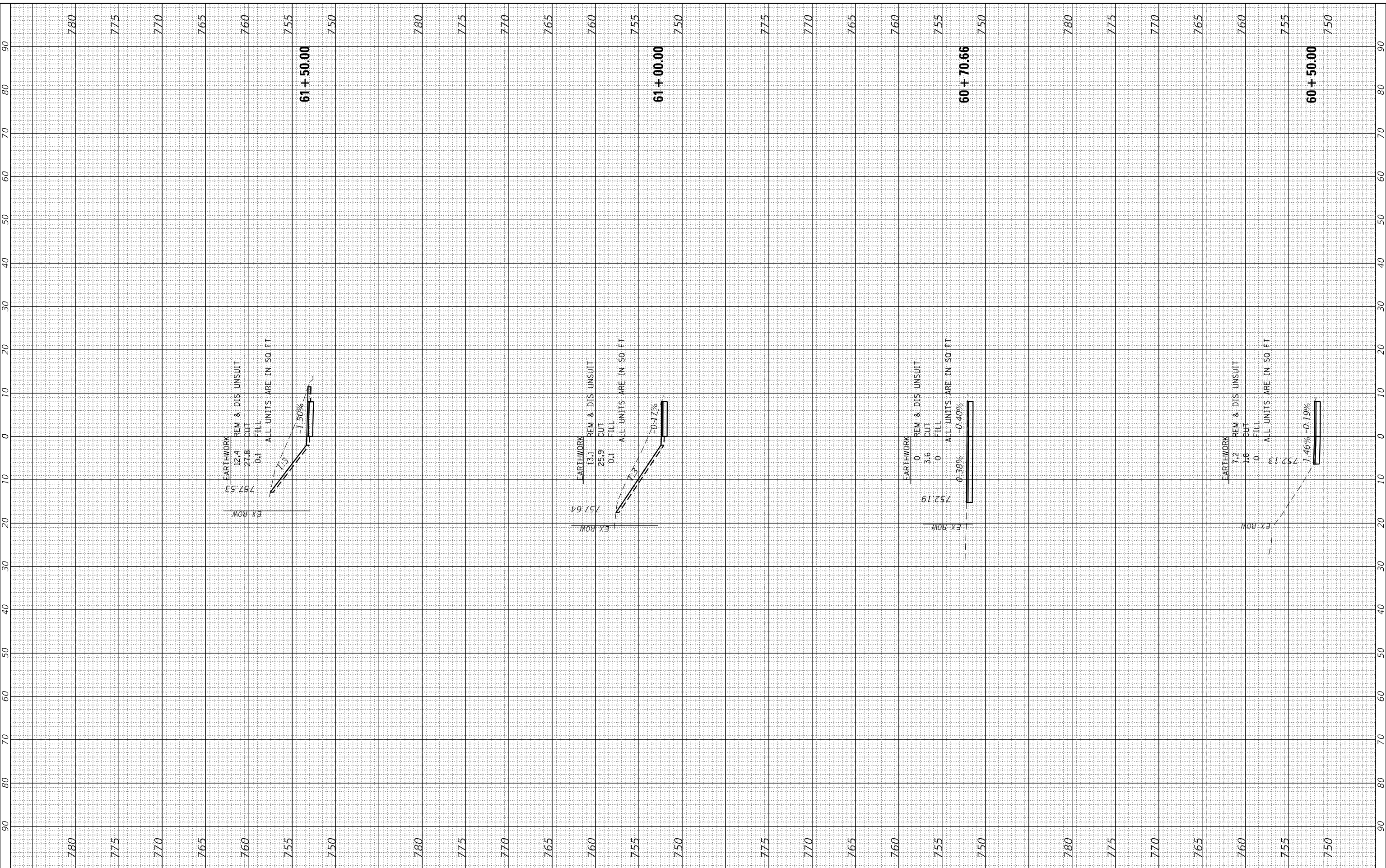
SCALE: 10H:5V    SHEET 23 OF 25    SHEETS TOTAL: 59+00.00 TO 60+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	85
			CONTRACT NO. 61168	
ILLINOIS			FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-0016-Riverside.dgn  
 PLOT DRIVER: C:\Program Files\Autodesk\AutoCAD 2020\Plot\Plotter\Plotter.dwg  
 PLOT DATE: 7/10/2023



**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME = jstrzal	DESIGNED - MLZ	REVISED - XX/XX/XXXX
	DRAWN - DMS	REVISED - XX/XX/XXXX
PLOT SCALE = 20.0000' / in.	CHECKED - JJS	REVISED - XX/XX/XXXX
PLOT DATE = 7/10/2023	DATE -	REVISED - XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 RIVERSIDE DRIVE**

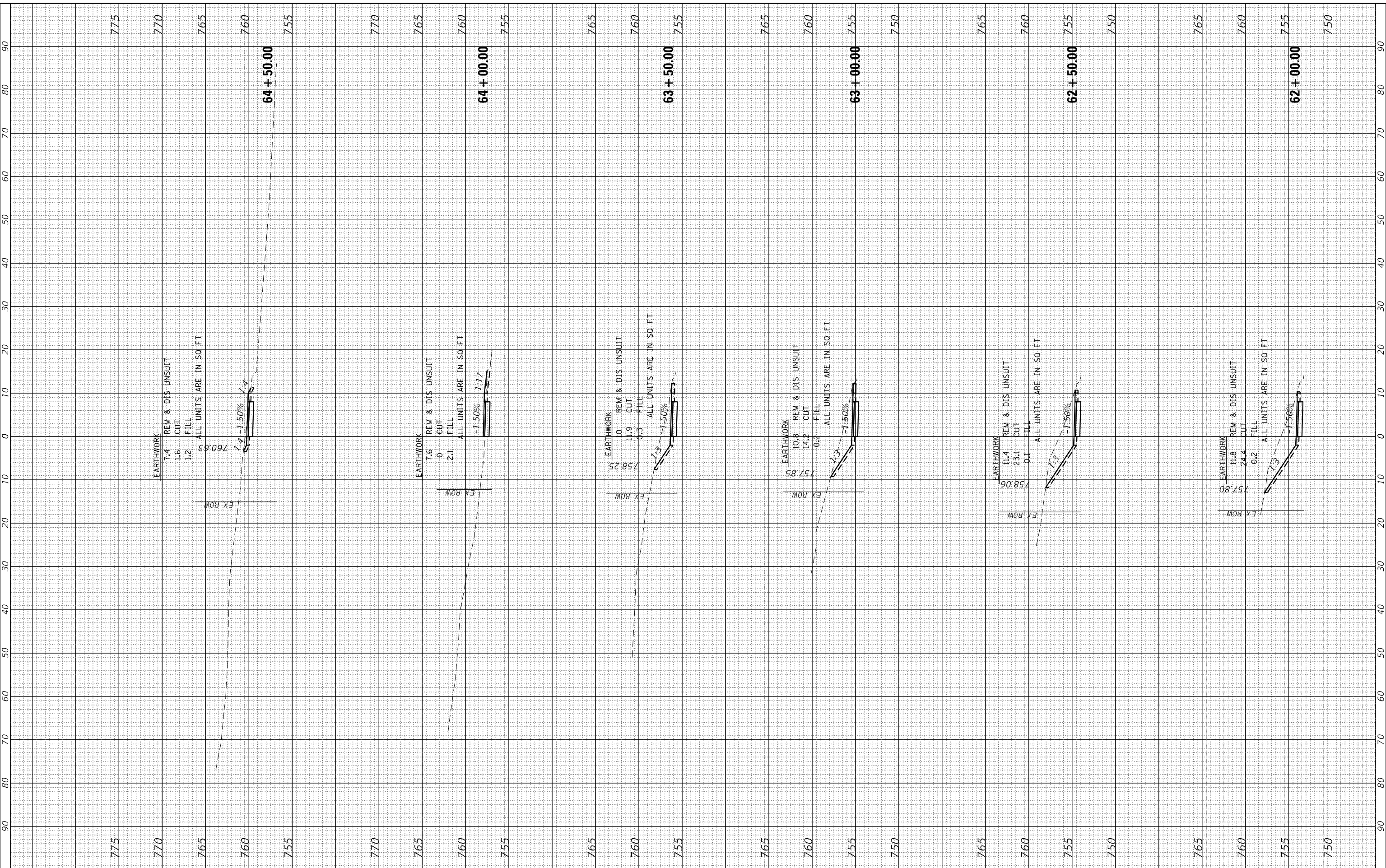
SCALE: 10H:5V    SHEET 24 OF 25 SHEETS    STA. 60+50.00 TO STA. 61+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	86
CONTRACT NO. 61168			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
CHECKED	AREAS		

HRG PROJECT No: 21700  
 FILE NAME: 2020-01-15-Riverside.dgn  
 PLOT DEVICE: HP DesignJet 4440c  
 PLOT DATE: 7/10/2023



USER NAME	= jstrzal
DESIGNED	- MLZ
DRAWN	- DMS
CHECKED	- JJS
DATE	-

REVISION	- XX/XX/XXXX
REVISION	- XX/XX/XXXX
REVISION	- XX/XX/XXXX
REVISION	- XX/XX/XXXX

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
<b>RIVERSIDE DRIVE</b>	
SCALE: 10H:5V	SHEET 25 OF 25 SHEETS STA. 62+00.00 TO STA. 64+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
156	20-00016-00-R5	MCHENRY	87	87
			CONTRACT NO.	61168
ILLINOIS			FED. AID PROJECT	