

**ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.:  
8" CONCRETE SLAB STAMPED AND STAINED**

THIS ITEM SHALL BE CONSTRUCTED AS PER ITEM 452 EXCEPT THAT THE CONCRETE SHALL BE INTEGRALLY COLORED AND SHALL HAVE A STAMPED SURFACE. CONCRETE SHALL BE INSTALLED FOLLOWING THE INSTRUCTIONS FROM THE STAMPED COLORED CONCRETE PATTERN AND PIGMENT MANUFACTURER.

A CONCRETE COLORING SHALL BE INTEGRALLY ADDED TO THE CONCRETE TO PRODUCE A MEDIUM GRAY COLOR. THE CONTRACTOR SHALL SUBMIT THE TECHNICAL DATA AND A COLOR SAMPLE OF THE PIGMENT TO THE ENGINEER FOR APPROVAL NO LESS THAN 14 DAYS PRIOR TO USE. THE LIQUID COLORANT SHALL CONFORM TO ASTM C979.

THE PATTERN FOR THE STAMPED SURFACE SHALL CONFORM TO A FLAGSTONE PATTERN AND SHALL PRODUCE A SIMULATED STONE TEXTURE. THE STONES SHALL HAVE A MINIMUM NOMINAL DIMENSION OF 8 INCHES BY 8 INCHES AND HAVE A MAXIMUM DIMENSION OF 24 INCHES BY 24 INCHES.

RADIAL JOINTS HAVING A DEPTH OF 6 INCHES SHALL BE SAWED AT 20 FEET SPACING WITHIN 24 HOURS OF CONCRETE PLACEMENT.

AFTER PLACEMENT OF CONCRETE, THE CONTRACTOR SHALL APPLY AND ACRYLIC BASED CONCRETE SEALER AND CURING AGENT. THE SEALER SHALL HAVE A MEDIUM TO HIGH GLOSS AND BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT THE BRAND NAME AND TECHNICAL DATA FOR THE CONCRETE SEALER TO THE ENGINEER FOR APPROVAL NO LESS THAN 14 DAYS PRIOR TO USE.

PAYMENT SHALL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK NOTES ABOVE.

**ITEM 203 - ROADWAY, MISC.: DECORATIVE STONE**

DECORATIVE STONE (RIVER ROCK OR SIMILAR) SHALL BE PLACED AT A DEPTH OF 6 INCHES USING A FILTER BLANKET, TYPE B IN ACCORDANCE WITH ODOT SPECIFICATION 721.09 IN THE AREAS SHOWN ON THE PLANS. THE DECORATIVE STONE SHALL BE PLACED 1" BELOW ADJACENT WALKS AND CURBS. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO SELECT THE TYPE OF DECORATIVE STONE USED.

ALL EXCAVATION, MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT BID PRICE PER SQUARE YARD FOR ITEM 203 - ROADWAY, MISC.: DECORATIVE STONE.

**ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ITEM 606, THIS ITEM REQUIRES STEEL POSTS AND COMPOSITE OR POLYMER ALTERNATIVE BLOCKOUTS. THE BLOCKOUTS SHALL BE FROM THE APPROVED PRODUCTS LIST THAT IS MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING AND INSTALLED PER CONSTRUCTION AND MATERIALS SPECIFICATION 606 AND ALL PERTINENT STANDARD DRAWINGS AND PLAN INSERT SHEETS. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING STEEL POSTS AND APPROVED ALTERNATIVE MGS BLOCKOUTS SHALL BE INCLUDED IN THE UNIT BIDS FOR THE FOLLOWING ITEMS:

ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN

**ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ITEM 606 AND STANDARD CONSTRUCTION DRAWING MGS-3.1, THIS ITEM REQUIRES THE USE OF STEEL POSTS. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING STEEL POSTS SHALL BE INCLUDED IN THE UNIT BID FOR ITEM 606, MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN

**POST CONSTRUCTION STORM WATER TREATMENT**

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

**REVIEW OF DRAINAGE FACILITIES**

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

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

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

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

**EXISTING SUBSURFACE DRAINAGE**

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

- 601, TIED CONCRETE BLOCK MAT, TYPE 1 - 4 SQ. YD.
- 611, 6" CONDUIT, TYPE F - 100 FT.
- 611, PRECAST REINFORCED CONCRETE OUTLET - 2 EACH
- 605, 6" UNCLASSIFIED PIPE UNDERDRAINS 100 FT.

**FARM DRAINS**

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE (RIGHT OF WAY)( CONSTRUCTION) LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY.

DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

- 611 6" CONDUIT, TYPE B 100 FT.
- 611 6" CONDUIT, TYPE E 100 FT.
- 611 6" CONDUIT, TYPE F 100 FT.
- 601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 5 CU. YD.

**ITEM 611 - MANHOLE, NO.3, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ITEM 611, THIS ITEM REQUIRES TEMPORARY SHORING. TEMPORARY SHORING PLAN TO BE APPROVED BY CSXT PRIOR TO INSTALLATION. ALL COST ASSOCIATED WITH DEVELOPING A TEMPORARY SHORING PLAN AND MATERIALS REQUIRED SHALL BE INCLUDED IN THE UNIT BID FOR THE FOLLOWING ITEMS:

ITEM 611 MANHOLE NO.3, AS PER PLAN

**ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT**

THIS ITEM CONSISTS OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING 36 INCH DIAMETER CONDUIT AND FILLING THE AREA SEALED OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

LOCATE THE BULKHEADS AT THE LIMITS OF THE AREA TO BE FILLED, AS INDICATED ON THE PLANS. THE BULKHEADS CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PUMP THE FILL MATERIAL INTO PLACE OR BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH IS FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR IS THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED PER 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT.

**ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DESIGN AGENCY



DESIGNER  
MJL

REVIEWER  
KF 05/20/22

PROJECT ID  
102375

SHEET	TOTAL
32	705



**ENVIRONMENTAL COMMITMENTS**

1. THE MAJORITY OF THE PROJECT AREA ALONG COUNTY ROAD 99 BETWEEN THE TECHNOLOGY DRIVE INTERSECTION AND THE MAIN STREET INTERSECTION (INCLUDING ALL WORK ALONG THE INTERSTATE) IS LOCATED WITHIN A SENSITIVE DRINKING WATER PROTECTION AREA. IN ORDER TO MINIMIZE THE POTENTIAL FOR A SPILL IN THIS SENSITIVE AREA, PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL BE CONDUCTED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER. THE CONTRACTOR SHALL UTILIZE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS SHALL NOT BE STORED NEAR ANY DRAINAGE WAYS, DITCHES, OR STREAMS. A SPILL KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL OR EVENT SHALL BE REPORTED IMMEDIATELY TO COURTNEY BARBEE OF JEFFREY'S ANTIQUE GALLERY AT 937-322-8868. IF THE SPILL IS A REPORTABLE AMOUNT, THE CONTRACTOR SHOULD CONTACT THE FINDLAY FIRE DEPARTMENT, 419-424-7129, FOR CLEANUP OF THE SPILL.

2. ODOT WILL ACQUIRE ALL NECESSARY WATERWAY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONDITIONS OF THESE PERMITS WILL BE PROVIDED IN THE CONTRACT AS SPECIAL PROVISIONS. ODOT WILL PROVIDE THE WATERWAY PERMITS TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL THE SPECIAL PROVISIONS OF THE WATERWAY PERMITS THROUGHOUT THE DURATION OF THE CONTRACT.

3. THIS PROJECT WAS DEVELOPED TO BE CONSTRUCTED WITHOUT EQUIPMENT OR MATERIALS BEING PLACED (PERMANENTLY OR TEMPORARILY) WITHIN THE BOUNDARIES OF WETLANDS 1, 2, AND 3. THESE WETLAND AREAS ARE SHOWN ON PLAN SHEETS 163, 166, 169 AND 177 OF THE PLANS.

PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL DEMARCATÉ THESE WETLAND AREAS ALONG LIMITS SHOWN ON PLAN SHEETS 163, 166, 169 AND 177 BY PLACING TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE ALONG THE PERIMETER OF THIS AREA. PLACE THE FENCE POST ON 8' CENTERS, 2' DEEP. SECURELY ATTACH THE PLASTIC CONSTRUCTION FENCE TO THE FENCE POST.

ALL COSTS ASSOCIATED WITH IDENTIFYING THESE WETLAND AREAS IN THE FIELD AND PROVIDING, ERECTING, MAINTAINING, AND SUBSEQUENTLY REMOVING THE TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE AS REQUIRED PER THE ABOVE SHALL BE INCLUDED WITH ITEM 832, EROSION CONTROL. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES OF CONSTRUCTION FENCE AT THE PRICE SHOWN IN APPENDIX F FOR SUPPLEMENTAL SPECIFICATION 832 (SS 832) AND WILL MEASURE THE TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE PER SS 832.

THE ESTIMATED LENGTH OF TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE NEEDED TO DEMARCATÉ THE WETLAND AREAS: 635 FEET.

4. THIS PROJECT WAS DEVELOPED TO BE CONSTRUCTED WITHOUT EQUIPMENT OR MATERIALS BEING PLACED (PERMANENTLY OR TEMPORARILY) WITHIN PORTIONS OF THE WETLAND 4 MARKED "DO NOT DISTURB." THESE WETLAND AREAS ARE SHOWN ON SHEET 177 AND 214 OF THE PLANS.

PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL DEMARCATÉ THESE WETLAND AREAS ALONG LIMITS SHOWN ON SCHEMATIC SHEETS 177, AND 214 BY PLACING TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE ALONG THE PERIMETER OF THIS AREA. PLACE THE FENCE POST ON 8' CENTERS, 2' DEEP. SECURELY ATTACH THE PLASTIC CONSTRUCTION FENCE TO THE FENCE POST.

**ENVIRONMENTAL COMMITMENTS (CONT.)**

ALL COSTS ASSOCIATED WITH IDENTIFYING THESE WETLAND AREAS IN THE FIELD AND PROVIDING, ERECTING, MAINTAINING, AND SUBSEQUENTLY REMOVING THE TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE AS REQUIRED PER THE ABOVE SHALL BE INCLUDED WITH ITEM 832, EROSION CONTROL. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES OF CONSTRUCTION FENCE AT THE PRICE SHOWN IN APPENDIX F FOR SUPPLEMENTAL SPECIFICATION 832 (SS 832) AND WILL MEASURE THE TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE PER SS 832.

THE ESTIMATED LENGTH OF TEMPORARY ORANGE PLASTIC CONSTRUCTION FENCE NEEDED TO DEMARCATÉ THE WETLAND AREAS: 140 FEET.

5. AN ASBESTOS SURVEY OF THE HAN-CR 99-1.48 BRIDGE STRUCTURE, SCHEDULED FOR DEMOLITION, WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. THE SURVEY DETERMINED REGULATED ASBESTOS-CONTAINING MATERIALS ARE NOT PRESENT ON THE STRUCTURE. THE ASBESTOS SURVEY REPORT IS FOUND IN THE SPECIAL PROVISIONS ATTACHED TO THE PLANS.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORMS, PARTIALLY COMPLETED BY THE BRIDGE OWNER, HAS BEEN INCLUDED AT THE END OF THE ASBESTOS SURVEY REPORT IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL COMPLETE AND SIGN THE FORMS AND SUBMIT THEM TO:

OHIO EPA, DAPC ASBESTOS  
50 W. TOWN STREET, 7TH FLOOR OR P.O. BOX 1049  
COLUMBUS, OH 43216-1049

OR SUBMIT THE FORMS ELECTRONICALLY (ELECTRONIC SUBMISSION INSTRUCTIONS PROVIDED ON THE FORMS), AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION WORK. THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED AND SIGNED FORMS TO THE ENGINEER. INFORMATION REQUIRED ON THE FORMS SHALL INCLUDE AT A MINIMUM: 1) THE ODOT PROJECT NUMBER, 2) THE CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER, 3) THE SCHEDULED DATES FOR THE START AND COMPLETION OF BRIDGE DEMOLITION.

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION OF DEMOLITION AND RENOVATION FORMS. PAYMENTS FOR THIS WORK SHALL BE INCIDENTAL TO THE ITEM 202 STRUCTURE REMOVAL ITEM(S) IN THE PLAN.

6. ENVIRONMENTAL STUDIES HAVE SHOWN THERE IS A POTENTIAL OF ENCOUNTERING PETROLEUM CONTAMINATED MATERIALS DURING EXCAVATION ACTIVITIES AT THE 1600/11732 COUNTY ROAD 99 PROPERTY (AT NORTHEAST CORNER OF THE IR 75/CR 99 INTERCHANGE), THE 3730 SPEEDWAY DRIVER PROPERTY (SPEEDWAY GAS STATION), AND THE 3900 VENTURA DRIVE PROPERTY (SHELL GAS STATION).

THE CONTRACTOR SHALL MANAGE THIS MATERIAL ACCORDING TO THE FOLLOWING NOTES. THE ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK. ALL EXCAVATIONS WITHIN THE AFOREMENTIONED LIMITS SHALL BE PAID FOR UNDER THE ORIGINAL PLAN BID ITEMS.

ALL MATERIAL EXCAVATED BY THE CONTRACTOR BETWEEN THESE LIMITS MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL IN A LINED AND COVERED ROLL-OFF BOX. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL ON AN IMPERMEABLE MEMBRANE. THE MEMBRANE SHALL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOILS FROM COMING IN CONTACT WITH THE ORIGINAL SOILS. AN IMPERMEABLE MEMBRANE SHALL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED CONTAMINATED MATERIAL INTO TRUCKS.

**ENVIRONMENTAL COMMITMENTS (CONT.)**

ALL EXCAVATED MATERIALS SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN ACCORDANCE WITH THE PROJECT PLANS, APPLICABLE ODOT SPECIFICATIONS, AND/OR AS DIRECTED BY THE ENGINEER.

COMPLETE ALL MANIFEST FOR MATERIAL TO BE TRANSPORTED AND PROVIDE TO THE ENGINEER FOR SIGNATURE. OBTAIN ALL NECESSARY PERMITS AND APPROVALS TO TRANSPORT THE MATERIAL TO A LICENSED AND PERMITTED DISPOSAL FACILITY. CONTACT THE DISPOSAL FACILITY TO DETERMINE IF ADDITIONAL TESTING IS REQUIRED FOR DISPOSAL. PROVIDE ANY ADDITIONAL SAMPLING AND ANALYSIS OF MATERIAL AS REQUIRED BY THE DISPOSAL FACILITY. OBTAIN ALL SIGNATURES ON THE MANIFEST FOR TRANSPORTING AND DISPOSAL OF THE MATERIAL AND PROVIDE A FINAL COPY TO THE ENGINEER.

THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY HANDLE, STORE (IF NECESSARY), TEST FOR DISPOSAL, TRANSPORT, AND DISPOSE OF REGULATED MATERIALS, INCLUDING REQUIRED PERMITS, APPROVALS, OR FEES WITHIN THE LIMITS IDENTIFIED ABOVE. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID PER TON. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

690E65016 ITEM SPECIAL WORK INVOLVING PETROLEUM CONTAMINATED SOILS - 1250 TON (925 CY)

**PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS AND DRAINAGE STRUCTURE INSTALLATIONS**

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES, AND INSTALLATION OF ITEM 611 DRAINAGE STRUCTURES INSTALLED BEYOND THE LIMITS OF CR 99 FULL DEPTH PAVING.

- ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A, (449) 17 CU. YDS. (FOR PIPE CROSSING EAST OF NORTH MAIN ST.)
- ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A, (449) 19 CU. YDS. (FOR PIPE CROSSING EAST OF NORTH MAIN ST.)
- ITEM 302 - ASPHALT CONCRETE BASE COURSE, PG 64-22 (449) 35 CU. YDS. (FOR RESTORING PAVEMENT TO GRADE EAST OF NORTH MAIN ST.)
- ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A, (449) 75 CU. YDS. (FOR PIPE CROSSINGS WEST OF NORTH MAIN ST.)
- ITEM 302 - ASPHALT CONCRETE BASE COURSE, PG 64-22 (449) 175 CU. YDS. (FOR RESTORING PAVEMENT TO GRADE WEST OF NORTH MAIN ST.)

THE ABOVE QUANTITY IS BASED ON A 442 SURFACE THICKNESS OF 1.5" AND A 442 INTERMEDIATE THICKNESS OF 1.75" PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT AND CURB RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES, AND INSTALLATION OF ITEM 611 DRAINAGE STRUCTURES INSTALLED IN THE CR 99 OVERLAY PAVEMENT AREAS FROM STA. 54+42.39 TO STA. 112+45.09 AS DIRECTED BY THE ENGINEER.

- ITEM 609 - COMBINATION CURB AND GUTTER, TYPE 2 - 225 FT.
- ITEM 302 - ASPHALT CONCRETE BASE COURSE, PG 64-22 (449) - 15 CU. YDS.
- ITEM 304 - AGGREGATE BASE - 25 CU. YDS.
- ITEM 202 - PAVEMENT REMOVED - 75 SQ. YDS.
- ITEM 202 - CURB AND GUTTER REMOVED - 225 FT.

**EXTENDED DETENTION BASIN**

THIS PLAN UTILIZES EXTENDED DETENTION BASIN(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. DETENTION BASINS MAY BE USED AS SEDIMENT CONTROL DEVICES DURING CONSTRUCTION. FOLLOWING STABILIZATION OF THE TRIBUTARY AREA, FINAL GRADING OF THE DETENTION BASIN MUST MATCH THE PLANS. THE DETENTION BASIN OUTLET STRUCTURE FOR CONSTRUCTION SEDIMENT CONTROL MUST BE REMOVED AND THE OUTLET STRUCTURE MUST BE MADE TO MATCH THE DESIGN SHOWN IN THE PLANS.

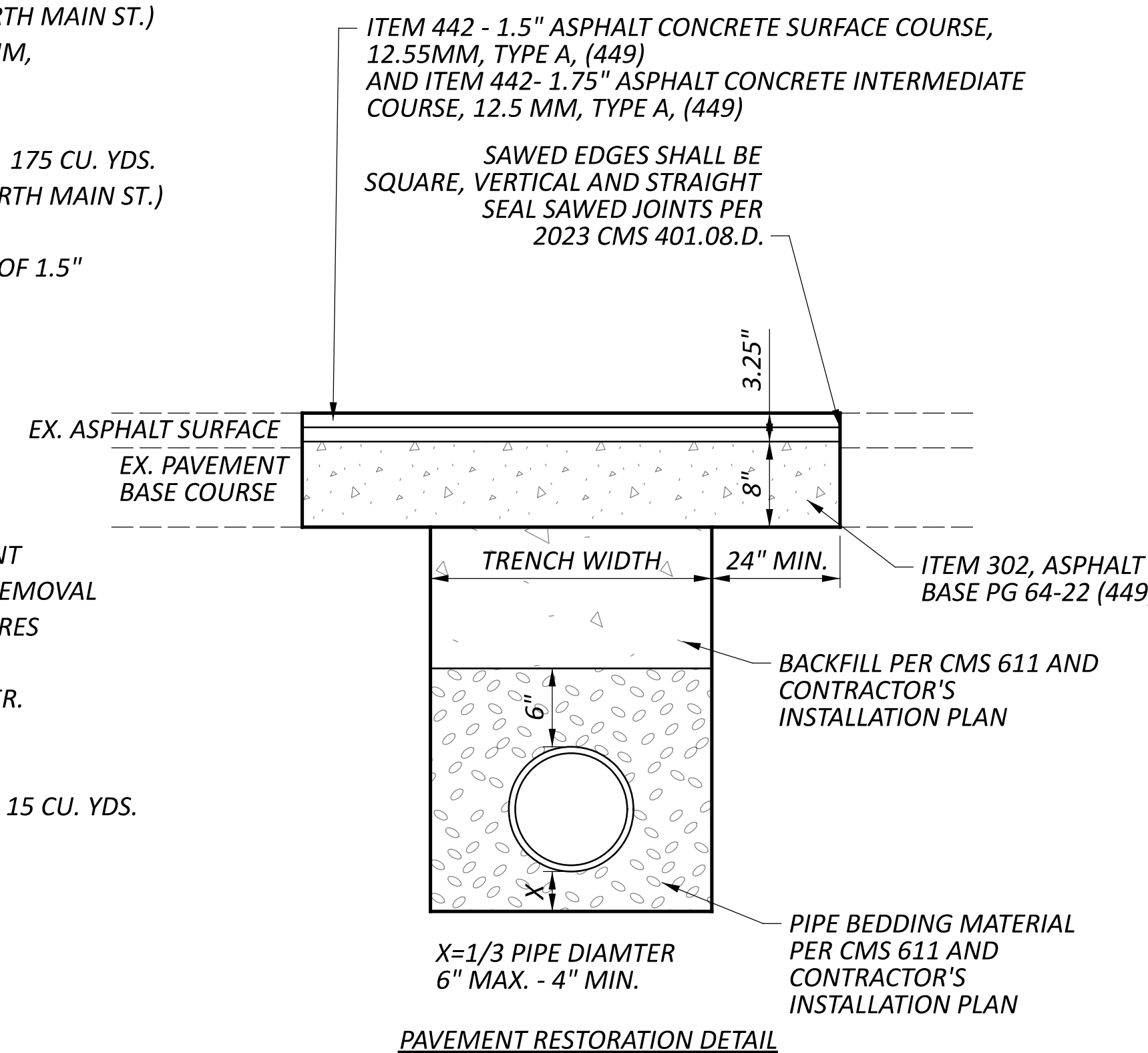
**PROTECTION OF RIGHT-OF-WAY LANDSCAPING**

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

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

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

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



GENERAL NOTES

DESIGN AGENCY	
DESIGNER	MJL
REVIEWER	KF 05/20/22
PROJECT ID	102375
SHEET TOTAL	33   705



**TRAFFIC INCIDENT MANAGEMENT (TIM) DURING MOT**

OHIO TIM IS OHIO'S TRAFFIC INCIDENT MANAGEMENT PROGRAM WHICH IS COMMITTED TO MAINTAINING THE SAFE AND EFFECTIVE FLOW OF TRAFFIC DURING EMERGENCIES AS TO PREVENT FURTHER DAMAGE, INJURY OR UNDUE DELAY OF THE MOTORING PUBLIC. IN ADDITION TO COMPLYING WITH THE PROVISION OF OMUTCD CHAPTER 6I, CONTROL OF TRAFFIC THROUGH TRAFFIC INCIDENT MANAGEMENT AREAS, THE CONTRACTOR SHALL ACTIVELY PARTICIPATE IN TIM PLANNING AND IMPLEMENTATION AS OUTLINED BELOW.

1. SUPERINTENDENT SHALL IDENTIFY THE INDIVIDUAL PERSONS ON THE PROJECT WHO WILL, OR MAY NEED TO, PERFORM THE DUTIES HEREIN. AT A MINIMUM, INCLUDE THE SUPERINTENDENT, FOREMEN AND SUPERVISORS (OR EQUIVALENT) AS WELL AS THE WORKSITE TRAFFIC SUPERVISOR (WTS; IF APPLICABLE TO THE PROJECT). THESE INDIVIDUALLY IDENTIFIED PERSONS SHALL COLLECTIVELY BE KNOWN AS CONTRACTOR TRAFFIC INCIDENT MANAGEMENT (TIM) CONTACTS. NOTIFY THE PROJECT ENGINEER OF THE CONTRACTOR TIM CONTACTS (ALONG WITH CONTACT INFORMATION FOR EACH) AT OR BEFORE THE PRECONSTRUCTION MEETING.
2. SUPERINTENDENT SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY CONTRACTOR TIM CONTACT IS ADDED, REMOVED OR THE CONTACT INFORMATION CHANGES OVER THE COURSE OF THE PROJECT.
3. PRIOR THE FIRST DAY OF WORK IN THE FIELD, EACH CONTRACTOR TIM CONTACT ON THE PROJECT SHALL HAVE ATTENDED AND SUCCESSFULLY COMPLETED OHIO TIM TRAINING PROVIDED BY THE DEPARTMENT OR DESIGNEE. TRAINING INFORMATION CAN BE FOUND AT WWW.OHIOTIM.COM.
4. SUPERINTENDENT, AT A MINIMUM, SHALL ATTEND AND ACTIVELY PARTICIPATE IN A DEPARTMENT SCHEDULED TIM MEETING BEFORE CONSTRUCTION WORK BEGINS AND BEFORE EACH PHASE CHANGE. THESE MEETINGS WILL RESULT IN A DEPARTMENT ISSUED PROJECT SPECIFIC TRAFFIC INCIDENT MANAGEMENT PLAN (TIMP). AT THE TIM MEETINGS THE ATTENDING CONTRACTOR TIM CONTACTS SHALL:
  - A. COLLABORATE WITH ODOT AND SAFETY FORCES;
  - B. SHARE PROJECT SPECIFIC DETAILS THAT IMPACT TIM RESPONDERS; AND
  - C. RECOMMEND WAYS TO INCORPORATE NECESSARY EMERGENCY ACCESS AND OTHER TIM ELEMENTS FOR TIM RESPONDERS GIVEN PROJECT SPECIFIC WORK BEING COMPLETED AND PROJECT SPECIFIC PHASING.
5. CONTRACTOR TIM CONTACTS SHALL IMPLEMENT COMPONENTS OF THE RESULTING TIMP (SUCH AS APPROVED EMERGENCY INGRESS/EGRESS POINTS, ETC), AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.
6. CONTRACTOR TIM CONTACTS SHALL PERFORM, AT A MINIMUM, THE FOLLOWING FUNCTIONS WHEN AN INCIDENT/CRASH OCCURS:
  - A. IF OBSERVED OR PRESENT WHEN OCCURS, CALL 911 AND THEN NOTIFY THE TRAFFIC MANAGEMENT CENTER (TMC) TO PROVIDE THE FOLLOWING:

- I. LOCATION, INCLUDING MILEPOST NUMBER AND DIRECTION OF TRAVEL
  - II. NUMBER AND TYPE OF VEHICLES INVOLVED, IF KNOWN
  - III. ESTIMATED EXTENT OF DAMAGE OR INJURY, IF KNOWN
  - IV. ESTIMATED NUMBER OF PATIENTS INVOLVED, IF KNOWN
  - V. ANY POTENTIAL HAZARDOUS CONDITIONS, IF KNOWN
  - VI. THE PLACARD NUMBER ON ANY HAZARDOUS MATERIALS PLACARD FROM A SAFE DISTANCE, IF APPLICABLE AND VISIBLE
- B. FOLLOWING AN INCIDENT/CRASH:
- I. INITIATE TRAFFIC MANAGEMENT/PROVIDE TEMPORARY TRAFFIC CONTROL AS INDICATED IN THE TIMP, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.
  - II. RECOMMEND ROADWAY REPAIR NEEDS.
  - III. PROVIDE REPAIR RESOURCES AND INITIATE REPAIRS, AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH 109.05.
  - IV. ATTEND AND PARTICIPATE IN AN AFTER ACTION REVIEW (AAR).

ALL COSTS, UNLESS OTHERWISE SPECIFIED, RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 614, MAINTAINING TRAFFIC. FAILURE TO PERFORM THE REQUIREMENTS OF THIS PLAN NOTE WILL RESULT IN A DAILY FINE OF 2% OF ITEM 614, MAINTAINING TRAFFIC AND MAY RESULT IN ONE OR MORE CONTRACTOR TIM CONTACTS BEING REMOVED FROM THE LIST OF OHIO TIM TRAINED INDIVIDUALS (AT THE SOLE DISCRETION OF THE OHIO TIM EXECUTIVE COMMITTEE). IN THE EVENT AN INDIVIDUAL IS REMOVED FROM THE OHIO TIM TRAINED LIST, THE INDIVIDUAL WILL BE REMOVED FROM CONTRACTOR TIM CONTACT RESPONSIBILITIES ON ALL PROJECTS.

**DELINEATION OF PORTABLE AND PERMANENT BARRIER**

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

[INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.]

[THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.]

[DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.]

[TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.]

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY) 700 EACH

ITEM 614, OBJECT MARKER, ONE-WAY 700 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

[ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.]

**ITEM 614, BUSINESS ENTRANCE (M4-H15) SIGN**

THE BUSINESS ENTRANCE (M4-H15) SIGN SHOULD BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED. THE SIGN SHALL BE 36 INCH X 48 INCH IN SIZE WITH TYPE G OR TYPE H ORANGE RETROREFLECTIVE SHEETING. THE SIGN LEGEND SHALL BE PLACED ON BOTH SIDES OF THE SIGN (BACK TO BACK). THE SIGN SHALL HAVE THE STANDARD M4-H15 LEGEND WITH THE WORD "BUSINESS" ON THE TOP LINE, EXCEPT UNDER UNUSUAL CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

THE SIGN SHALL BE MOUNTED ON TWO #3 POSTS OR ON TEMPORARY POSTS IN ACCORDANCE WITH SCD MT-105.10 AND IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGN SHALL BE CLEARLY VISIBLE AND SHALL CLEARLY IDENTIFY THE LOCATION OF THE DRIVEWAY. THE SIGN SHOULD BE POSITIONED AT 90 DEGREES TO THE DIRECTION(S) OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAINTENANCE OF TRAFFIC OPERATIONS.

PAYMENT FOR ALL COSTS ASSOCIATED WITH MANUFACTURING, MOUNTING, RELOCATING, AND REMOVING THE SIGN, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 614-BUSINESS ENTRANCE SIGN.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM.

ITEM 614, BUSINESS ENTRANCE SIGN 11 EACH

**ITEM 614, WORK ZONE RAISED PAVEMENT MARKER**

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

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

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

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH MARCH 31.

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

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

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

THE FOLLOWING BID ITEMS SHOULD BE INCLUDED IN THE PLANS:

ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" 525 SQUARE YARDS

ITEM 614 WORK ZONE RAISED PAVEMENT MARKER 4,920 EACH

PHASE	DIRECTION	
	IR-75 NB	IR-75 SB
PHASE 1	520	540
PHASE 1 STEP 1	540	340
PHASE 1 STEP 2	540	560
PHASE 2	500	520
PHASE 2 STEP 1	400	460
TOTAL	4920	

PAYMENT FOR RESURFACING WITHIN THE TRANSITION AREA SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEMS FOR THE WORK REQUIRED, AS PROVIDED FOR IN THE PLANS.

DESIGN AGENCY



DESIGNER  
CO

REVIEWER  
KF 05/20/22


PROJECT ID  
102375

SHEET TOTAL  
38 | 705



SHEET NUM.											PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
30	33	34	130	142	144	369	464	489	500	R/W Plans 3	01/SK5/03	02/IMS/08	03/IMS/13	04/SK5/04						
											LS				201	11000	LS		ROADWAY	30
	75		32,091		1			1			31,066			2	202	20010	2	EACH	CLEARING AND GRUBBING	
			11,135								11,135			1,100	202	23000	32,166	SY	HEADWALL REMOVED	
			345								345				202	30000	11,135	SF	PAVEMENT REMOVED	
															202	30700	345	FT	WALK REMOVED	
																			CONCRETE BARRIER REMOVED	
	225		371								371				202	32000	371	FT	CURB REMOVED	
			9,383								8,756			852	202	32500	9,608	FT	CURB AND GUTTER REMOVED	
					5,303		36	5			4,890			454	202	35100	5,344	FT	PIPE REMOVED, 24" AND UNDER	
					4,470			15			2,425			2,060	202	35200	4,485	FT	PIPE REMOVED, OVER 24"	
			3,331								3,331				202	38000	3,331	FT	GUARDRAIL REMOVED	
			7								7				202	42010	7	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
			7								7				202	42040	7	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
			2								2				202	42050	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE B	
			6								6				202	47000	6	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
					20						8			12	202	58000	20	EACH	MANHOLE REMOVED	
					55						50			5	202	58100	55	EACH	CATCH BASIN REMOVED	
					75						75				SPECIAL	20270000	75	FT	FILL AND PLUG EXISTING CONDUIT, 10"	
					75						75				SPECIAL	20270000	75	FT	FILL AND PLUG EXISTING CONDUIT, 15"	
					1,983						732			1,251	SPECIAL	20270000	1,983	FT	FILL AND PLUG EXISTING CONDUIT, 36"	
			3,974								3,974				202	75000	3,974	FT	FENCE REMOVED	
									1		1				202	75610	1	EACH	VALVE BOX REMOVED	
											15			1	202	98100	16	EACH	REMOVAL MISC.: PRIVATE SIGN	30
											1				202	98100	1	EACH	REMOVAL MISC.: METAL GATE ASSEMBLY	30
					332						332				202	98400	332	SF	REMOVAL MISC.: CONCRETE PAD	
						37,728		959			37,728			959	203	10000	38,687	CY	EXCAVATION	
						89,894					89,894				203	20000	89,894	CY	EMBANKMENT	
								415						415	203	22000	415	CY	EMBANKMENT, USING NATURAL SOILS, 703.16.A	
					17,151						16,708			443	203	35120	17,151	CY	GRANULAR MATERIAL, TYPE C	
		2									2				SPECIAL	20365000	2	EACH	SETTLEMENT PLATFORM	34
					1,813						1,813				203	98100	1,813	SY	ROADWAY, MISC.: DECORATIVE STONE	32
					55,011						53,683			1,328	204	10000	55,011	SY	SUBGRADE COMPACTION	
					17,151						16,708			443	204	13000	17,151	CY	EXCAVATION OF SUBGRADE	
					28						27			1	204	45000	28	HOUR	PROOF ROLLING	
					49,420						48,092			1,328	204	50000	49,420	SY	GEOTEXTILE FABRIC	
					1,746						1,746				204	51000	1,746	SY	GEOGRID	
			64								64				517	76300	64	FT	RAILING, MISC.: 57" SINGLE SLOPE CONCRETE MEDIAN BRIDGE RAILING	
			2,295								2,295				606	15051	2,295	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	32
			6								6				606	26150	6	EACH	ANCHOR ASSEMBLY, MGS TYPE E MASH 2016	
			6								6				606	26550	6	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			3								3				606	35003	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN	32
			3								3				606	35102	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
			3,448								3,448				607	15000	3,448	FT	FENCE, TYPE 47	
			2,416								2,416				607	23001	2,416	FT	FENCE, TYPE CLT, AS PER PLAN (BLACK VINYL COATED)	30
			284								284				607	98000	284	FT	FENCE, MISC.: WOOD FENCE - BIKEWAY RAILING PER SCD-RM-5.2	30
	775										775				607	98000	775	FT	FENCE, MISC.: ORANGE PLASTIC CONSTRUCTION FENCE	33
					61,679						61,679				608	10000	61,679	SF	4" CONCRETE WALK	
			1,946								1,946				608	52000	1,946	SF	CURB RAMP	
			135								135				608	53020	135	SF	DETECTABLE WARNING	
			117								117				622	10100	117	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	
			227								227				622	10160	227	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
			2								2				622	24841	2	EACH	CONCRETE BARRIER END SECTION, TYPE B, AS PER PLAN	
			6								6				622	25000	6	EACH	CONCRETE BARRIER END SECTION, TYPE D	
			2								2				622	25001	2	EACH	CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN	
			2								2				622	25004	2	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B	
			12								12				622	25050	12	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
										8	8				623	38500	8	EACH	MONUMENT ASSEMBLY, TYPE C	
										46	46				623	40520	46	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
LS											LS				623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
LS											LS				623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	

GENERAL SUMMARY

DESIGN AGENCY  
  
 DESIGNER  
 MJL  
 REVIEWER  
 PHF 11/22/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 119 | 705



SHEET NUM.											PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
31	32	33	130	144	149	154	463	464	489		01/SK5/03	02/IMS/08	03/IMS/13	04/SK5/04						
			25 35 4								25 35					626 626 SPECIAL SPECIAL	00102 00110 69050350 69065016	25 35 4 1,250	EACH EACH EACH TON	ROADWAY CONT. BARRIER REFLECTOR, TYPE 1 (ONE WAY) BARRIER REFLECTOR, TYPE 2 (ONE WAY) MAILBOX REMOVED AND RESET WORK INVOLVING PETROLEUM CONTAMINATED SOIL
	5			44 188			4		5		38 188 2			20	601 601 659	32200 37500 00100	58 188 2	CY FT EACH	EROSION CONTROL ROCK CHANNEL PROTECTION, TYPE C WITH FILTER PAVED GUTTER, TYPE 1-2 SOIL ANALYSIS TEST	
2 14,630 131,802											14,630 131,802				659 659	00300 10000	14,630 137,714	CY SY	TOPSOIL SEEDING AND MULCHING	
6,590 6,590 18.39 27.23 730											6,590 6,590 18.39 27.23 730				659 659 659 659 659	14000 15000 20000 31000 35000	6,590 6,590 18.39 27.23 730	SY TON TON ACRE MGAL	REPAIR SEEDING AND MULCHING INTER-SEEDING COMMERCIAL FERTILIZER LIME WATER	
297											297				659 670	40000 00500	297 4,710	MSF SY	MOWING SLOPE EROSION PROTECTION	
				235							235 LS LS			4,710	670 832 832	00720 15000 15002	235 LS LS	SY	DITCH EROSION PROTECTION MAT, TYPE B STORM WATER POLLUTION PREVENTION PLAN STORM WATER POLLUTION PREVENTION INSPECTIONS	
											LS 300,000				832 832	15010 30000	LS 300,000	EACH	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE EROSION CONTROL	
	4					44					48				601 601	21050 21060	48 540	SY SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
					22.1		1.4				16.5 564 628				602 605 605	20000 05200 11100	25.2 857 628	CY FT FT	CONCRETE MASONRY 4" UNCLASSIFIED PIPE UNDERDRAINS 6" SHALLOW PIPE UNDERDRAINS, (24" DEEP)	
						10,238 1,599 18,163 489 413					10,238 1,699 18,163 288 413				605 605 605 605 611	11100 13300 14000 31100 00510	10,238 1,699 18,163 489 413	FT FT FT FT FT	6" SHALLOW PIPE UNDERDRAINS, (30" DEEP) 6" UNCLASSIFIED PIPE UNDERDRAINS 6" BASE PIPE UNDERDRAINS AGGREGATE DRAINS 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	100 100 200										100 100 200 1,253 70				611 611 611 611 611	00900 01400 01500 01500 01800	100 100 200 1,254 70	FT FT FT FT FT	6" CONDUIT, TYPE B 6" CONDUIT, TYPE E 6" CONDUIT, TYPE F 6" CONDUIT, TYPE F, 707.33 8" CONDUIT, TYPE B, 707.70	
						10 1,512 951 1,433 843					10 1,507 800 1,276 655				611 611 611 611 611	02000 04400 04600 05900 06100	10 1,512 951 1,433 843	FT FT FT FT FT	8" CONDUIT, TYPE C 12" CONDUIT, TYPE B 12" CONDUIT, TYPE C 15" CONDUIT, TYPE B 15" CONDUIT, TYPE C	
						118 249 703 80 1,095					118 249 628 80 1,095				611 611 611 611 611	06700 07400 07600 08900 09100	118 249 703 80 1,095	FT FT FT FT FT	15" CONDUIT, TYPE F 707.05, TYPE C 707.21 OR 707.33 18" CONDUIT, TYPE B 18" CONDUIT, TYPE C 21" CONDUIT, TYPE B 21" CONDUIT, TYPE C	
						417 706 14 427 46				5	417 689 14 427 46				611 611 611 611 611	10400 10600 11900 12100 13600	417 711 14 427 46	FT FT FT FT FT	24" CONDUIT, TYPE B 24" CONDUIT, TYPE C 27" CONDUIT, TYPE B 27" CONDUIT, TYPE C 30" CONDUIT, TYPE C	
						205					205 241				611 611	16200 16200	205 241	FT FT	36" CONDUIT, TYPE A, 706.02, 707.21, 707.22, 707.33, 707.85 36" CONDUIT, TYPE A, 706.02, 707.01, 707.02, 707.03 (0.188), 707.33	
						1,022 2,108				24	1,022 2,132				611 611	16400 16600	1,022 2,132	FT FT	36" CONDUIT, TYPE B 36" CONDUIT, TYPE C	


GENERAL SUMMARY

DESIGN AGENCY  
  
 DESIGNER  
 MJL  
 REVIEWER  
 PHF 11/22/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 120 | 705



SHEET NUM.									PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
32	33	130	142	149	154	489	500		01/SK5/03	02/IMS/08	03/IMS/13	04/SK5/04						
<b>DRAINAGE CONT.</b>																		
				588					66			522	611	19400	588	FT	42" CONDUIT, TYPE B	
				832								832	611	19600	832	FT	42" CONDUIT, TYPE C	
				308								308	611	20900	308	FT	48" CONDUIT, TYPE B	
				639								639	611	21100	639	FT	48" CONDUIT, TYPE C	
				232								232	611	22400	232	FT	54" CONDUIT, TYPE B	
				580								580	611	22600	580	FT	54" CONDUIT, TYPE C	
				322								322	611	22600	322	FT	54" CONDUIT, TYPE C, 706.02 WITH PREMIUM JOINTS, 706.11	
				455								455	611	24000	455	FT	60" CONDUIT, TYPE C	
				185								185	611	24000	185	FT	60" CONDUIT, TYPE C, 706.02 WITH PREMIUM JOINTS, 706.11	
				49					41			8	611	98150	49	EACH	CATCH BASIN, NO. 3	
				46					42			4	611	98180	46	EACH	CATCH BASIN, NO. 3A	
				13					10			3	611	98470	13	EACH	CATCH BASIN, NO. 2-2B	
				21					20			1	611	98510	21	EACH	CATCH BASIN, NO. 2-3	
				18					16			2	611	98540	18	EACH	CATCH BASIN, NO. 2-4	
				43					22			21	611	99574	43	EACH	MANHOLE, NO. 3	
				1					1				611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN	32
2					22				24				611	99710	24	EACH	PRECAST REINFORCED CONCRETE OUTLET	
						1						1	611	99850	1	EACH	WATER QUALITY BASIN, RETENTION	
<b>PAVEMENT</b>																		
			12,457						12,457				254	01000	12,457	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3.0"	
	225		2,864						2,423			666	302	56000	3,089	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	25		10,184						9,205			1,004	304	20000	10,209	CY	AGGREGATE BASE	
			6,460						5,931			529	407	20000	6,460	GAL	NON-TRACKING TACK COAT	
			125									125	441	50000	125	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
			146									146	441	50300	146	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
			13						9			4	441	70500	13	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
			18						12			6	441	70700	18	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (DRIVEWAYS)	
			1,783						1,736			47	442	10000	1,783	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
			2,080						2,045			35	442	10100	2,080	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
			564						564				442	20100	564	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448), FOR WEDGING	
	17								17				442	22100	17	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)	
	94								75			19	442	22300	94	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (449)	
			949						949				452	12010	949	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
			29,880						29,880				452	14110	29,880	SY	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
			3,765						3,765				452	19200	3,765	SY	NON-REINFORCED CONCRETE PAVEMENT, MISC.: 8" CONCRETE SLAB STAMPED AND STAINED	32
	225	6,062							5,884			403	609	12000	6,287	FT	COMBINATION CURB AND GUTTER, TYPE 2	
			5,879						4,914			669	SPECIAL	69012050	5,583	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	31
			55						5,879				609	14000	5,879	FT	CURB, TYPE 2-A	
									55				609	24000	55	FT	CURB, TYPE 4-A	
			821						821				609	26000	821	FT	CURB, TYPE 6	
<b>WATER WORK</b>																		
							34		34				638	00601	34	FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS, AS PER PLAN	498
							51		51				638	01131	51	FT	6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	498
							94		94				638	01721	94	FT	8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	498
							1,281		1,281				638	02731	1,281	FT	12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	498
							23		23				638	03390	23	FT	16" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA CLASS C900, DR18	498
							163		163				638	03800	163	FT	24" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
							37		37				638	04900	37	FT	1" COPPER SERVICE BRANCH	498
							5		5				638	07801	5	EACH	6" GATE VALVE AND VALVE BOX, AS PER PLAN	498
							1		1				638	07901	1	EACH	8" GATE VALVE AND VALVE BOX, AS PER PLAN	498
							1		1				638	08101	1	EACH	12" GATE VALVE AND VALVE BOX, AS PER PLAN	498
							1		1				638	09401	1	EACH	8" X 8" TAPPING SLEEVE, VALVE AND VALVE BOX, AS PER PLAN	498
							2		2				638	09801	2	EACH	12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX, AS PER PLAN	498
							3		3				638	10201	3	EACH	6" FIRE HYDRANT, AS PER PLAN	498
							1		1				638	10400	1	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
							2		2				638	10480	2	EACH	FIRE HYDRANT REMOVED	
							15		15				638	10800	15	EACH	VALVE BOX ADJUSTED TO GRADE	

GENERAL SUMMARY

DESIGN AGENCY	
DESIGNER	
REVIEWER	MJL
PROJECT ID	PHF 11/22/22
SHEET	102375
TOTAL	705

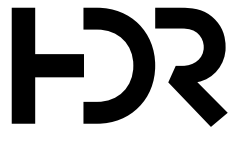


**HAN-75/CR99 INTERCHANGE REHAB**

MODEL: GENERAL SUMMARY 5 PAPER SIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 9:11:07 AM USER: MLORENZ  
 p:\p\h\drusea01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_Interchange\6.0\_CAD\_BIM\6.2\_WIP\01\_Design\102375\400-Engineering\Roadway\Sheets\General Summary Sheets

SHEET NUM.								PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
510	547	548	551	552	554	567		01/SK5/03	02/IMS/08	03/IMS/13	04/SK5/04						
<b>TRAFFIC CONTROL CONT.</b>																	
								1.98				644	00204	1.98	MILE	LANE LINE, 6"	
								1.36				644	00300	1.36	MILE	CENTER LINE	
								3,694				644	00400	3,694	FT	CHANNELIZING LINE, 8"	
								606				644	00500	606	FT	STOP LINE	
								646				644	00630	646	FT	CROSSWALK LINE, 24"	
								633				644	00700	633	FT	TRANSVERSE/DIAGONAL LINE	
								636				644	00720	636	FT	CHEVRON MARKING	
								133				644	01300	133	EACH	LANE ARROW	
								9				644	01350	9	EACH	LANE REDUCTION ARROW	
								6				644	01360	6	EACH	WRONG WAY ARROW	
								1,468				644	01510	1,468	FT	DOTTED LINE, 6"	
								233				644	30000	233	FT	REMOVAL OF PAVEMENT MARKING	
								2.92				807	10010	2.92	MILE	WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6"	
								0.05				807	10110	0.05	MILE	WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6"	
								1,957				807	10300	1,957	FT	WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 8"	
								2,448				807	10410	2,448	FT	WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6"	
								2.98				850	10010	2.98	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
								2,448				850	10110	2,448	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
								1,957				850	10120	1,957	FT	GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT)	
<b>TRAFFIC SURVEILLANCE</b>																	
						96		96				625	25604	96	FT	CONDUIT, 4", 725.051	
						694		694				625	29000	694	FT	TRENCH	
						1		1				625	30700	1	EACH	PULL BOX, 725.08, 18"	
						9		9				625	30710	9	EACH	PULL BOX, 725.08, 32"	
						3		3				625	30730	3	EACH	PULL BOX, 725.08, 48", TYPE 1	
						686		686				625	36011	686	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	
						2,644		2,644				804	15010	2,644	FT	FIBER OPTIC CABLE, 24 FIBER	
						4		4				804	37000	4	EACH	SPLICE ENCLOSURE, BUTT STYLE	
						694		694				809	25000	694	FT	CONDUIT, MULTICELL, MISC.: 4"	
						1		1				809	60040	1	EACH	CCTV IP-CAMERA SYSTEM, QUAD MULTI-VIEW FIXED WITH PTZ	
						1		1				809	61002	1	EACH	CCTV CONCRETE POLE, 70 FEET	
						1		1				809	61090	1	EACH	CCTV LOWERING UNIT	
						1		1				809	65000	1	EACH	ITS CABINET - GROUND MOUNTED	
<b>TRAFFIC SIGNALS</b>																	
	100							100				611	00400	100	FT	4" CONDUIT, TYPE E	
		24						24				614	11110	24	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
								4				625	18200	4	EACH	BRACKET ARM, 15'	
								653				625	22900	653	FT	NO. 1/2 AWG 2400 VOLT DISTRIBUTION CABLE	
								200				625	23400	200	FT	NO. 10 AWG POLE AND BRACKET CABLE	
								212				625	25300	212	FT	CONDUIT, 1-1/2", 725.04	
								29				625	25402	29	FT	CONDUIT, 2", 725.05	
			335	305				703				625	25502	703	FT	CONDUIT, 3", 725.05	
			227	301				649				625	25602	649	FT	CONDUIT, 4", 725.05	
								225				625	25902	225	FT	CONDUIT, JACKED OR DRILLED, 725.04, 4"	
								225				625	25902	225	FT	CONDUIT, JACKED OR DRILLED, 725.04, 1 1/2"	
								4				625	26250	4	EACH	LUMINAIRE, CONVENTIONAL, 80 WATT (LED), 120 VOLTS	
			554	672				1,467				625	29002	1,467	FT	TRENCH, 24" DEEP	
			8	11				19				625	30706	19	EACH	PULL BOX, 725.08, 24"	
								5				625	30707	5	EACH	PULL BOX, 725.08, 24", AS PER PLAN	
								23				625	32000	23	EACH	GROUND ROD	
								1,467				625	36010	1,467	FT	UNDERGROUND WARNING/MARKING TAPE	
								36				632	05006	36	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK	
								4				632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK	
			2	4				10				632	20731	10	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	
								6				632	20751	6	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	
			2	4				40				632	25001	40	EACH	COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN	
			12	13				10				632	25010	10	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
								4				632	26001	4	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	
								498				632	40200	498	FT	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG	

**GENERAL SUMMARY**

DESIGN AGENCY  
  
 DESIGNER  
 MJL  
 REVIEWER  
 PHF 11/22/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 123 | 705



SHEET NUM.					PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
492	551	552	553	554	01/SK5/03	02/IMS/08	03/IMS/13	04/SK5/04						
	1,095	1,089		2,991					632	40500	5,175	FT	TRAFFIC SIGNALS CONT.	
	997	1,063		1,005					632	40700	3,065	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
	4	4		4					632	64011	12	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	548
	3	4		3					632	64020	10	EACH	PEDESTAL FOUNDATION	
			168	107					632	69320	275	FT	POWER CABLE, 3 CONDUCTOR, NO. 2 AWG	
									632	69900	570	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 4 AWG	
			570						632	70001	3	EACH	POWER SERVICE, AS PER PLAN	547
		2	2	1					632	72101	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN	549
	3								632	72111	3	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN	549
	1	1							632	72131	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	549
		1							632	72141	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	549
				4					632	77233	4	EACH	SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.22 MAST ARM, AS PER PLAN	548
				1					632	79131	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	549
				2					632	79141	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	549
				1					632	79151	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN	549
				2					632	89601	2	EACH	PEDESTAL, 8', AS PER PLAN	548
	2	1							632	90000	3	EACH	PEDESTAL, 11', TRANSFORMER BASE	
	1	4							632	90008	5	EACH	PEDESTAL, 15', TRANSFORMER BASE	
				1					632	90010	1	EACH	PEDESTAL, MISC.: 15', TRANSFORMER BASE	548
	1	1		1					632	90101	3	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	548
				1					632	90400	1	EACH	SIGNALIZATION, MISC.:CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1, AS PER PLAN	549
			2						633	65511	2	EACH	CABINET, TYPE TS-2, AS PER PLAN	549
				1					633	67100	1	EACH	CABINET FOUNDATION	
			2						633	67101	2	EACH	CABINET FOUNDATION, AS PER PLAN	549
			2	1					633	67201	3	EACH	CONTROLLER WORK PAD, AS PER PLAN	548
			2	1					633	75001	3	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	549
				2					809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	548
	4	4		4					809	69211	12	EACH	PREEMPT RECEIVING UNIT, AS PER PLAN	550
	1,172	1,144		945					809	69221	3,261	FT	PREEMPT DETECTOR CABLE, AS PER PLAN	550
	4	4		4					809	69231	12	EACH	PREEMPT PHASE SELECTOR, AS PER PLAN	550
	4	4		4					809	69241	12	EACH	PREEMPT CONFIRMATION LIGHT, AS PER PLAN	550
			1	1					815	30001	2	EACH	SPREAD SPECTRUM RADIO, AS PER PLAN	548
	1	1		1					816	30001	3	EACH	VIDEO DETECTION SYSTEM, AS PER PLAN	550
													<b>RETAINING WALLS (WALL 001)</b>	
530									503	21100	530	CY	UNCLASSIFIED EXCAVATION	
38,687									509	10000	38,687	LB	EPOXY COATED STEEL REINFORCEMENT	
4,738									509	30020	4,738	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
330									511	46212	330	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL INCLUDING FOOTING	
50									511	53012	50	CY	CLASS QC2 CONCRETE, MISC.: BRIDGE RAILING ON RETAINING WALL	492
470									512	10100	470	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
35									512	33000	35	SY	TYPE 2 WATERPROOFING	
50									516	13600	50	SF	1" PREFORMED EXPANSION JOINT FILLER	
295									516	13900	295	SF	2" PREFORMED EXPANSION JOINT FILLER	
180									518	21200	180	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
312									518	40000	312	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
10									518	40010	10	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
													<b>STRUCTURE OVER 20 FOOT SPAN (HAN-C0099-000)</b>	587
													<b>STRUCTURE OVER 20 FOOT SPAN (HAN-00075-1962)</b>	615

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

MJL

REVIEWER

PHF 11/22/22

PROJECT ID

102375


SHEET TOTAL

124 705



SHEET NUM.					PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
36	38	39	40	47	01/SK5/03	02/IMS/08	03/IMS/13	04/SK5/04						
<b>MAINTENANCE OF TRAFFIC</b>														
	525				525				254	01000	525	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
250					250				410	12000	250	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
		400			400				614	11110	400	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			4		4				SPECIAL	61411300	4	EACH	WORK ZONE TRAFFIC SIGNAL	40
				26	26				614	12380	26	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
25					25				614	12500	25	EACH	REPLACEMENT SIGN	
	4,920				4,920				614	12800	4,920	EACH	WORK ZONE RAISED PAVEMENT MARKER	
	700				700				614	13310	700	EACH	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	
	700				700				614	13350	700	EACH	OBJECT MARKER, ONE WAY	
				1.97	1.97				614	20100	1.97	MILE	WORK ZONE LANE LINE, CLASS I, 4", 642 PAINT	
				1.86	1.86				614	21100	1.86	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
				12.2	11.75			0.45	614	22100	12.2	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT, WHITE	
				8.18	7.73			0.45	614	22100	8.18	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT, YELLOW	
				55,521	52,973			2,548	614	23200	55,521	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	
				8,366	8,044			322	614	24200	8,366	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	
				853	776			77	614	26200	853	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
4,350	11				11				614	40050	11	EACH	BUSINESS ENTRANCE SIGN	
200					4,350				615	20001	4,350	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	40
					200				616	10000	200	MGAL	WATER	
				29,031	29,031				622	41100	29,031	FT	PORTABLE BARRIER, UNANCHORED	
				2	2				622	41060	2	EACH	DUAL PORTABLE BARRIER TRANSITION/TERMINATION	
<b>INCIDENTALS</b>														
					LS				614	11000	LS		MAINTAINING TRAFFIC	
					24				619	16020	24	MNTH	FIELD OFFICE, TYPE C	
					LS				623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
					LS				623	11000	LS		PROVIDING ELECTRONIC INSTRUMENTATION	
					LS				624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY	
DESIGNER	MJL
REVIEWER	PHF 11/22/22
PROJECT ID	102375
SHEET	TOTAL
125	705




**HAN-75/CR99 INTERCHANGE REHAB**

c:\pwworking\east01\1477058\102375\_65003.dgn 1/26/2024 4:36:22 PM MLORENZ  
 MODEL: Roadway Subsummary 3 PAPER SIZE: 34x22 (in.) DATE: 1/26/2024 TIME: 4:36:22 PM USER: MLORENZ

REF NO.	SHEET NO.	STATION TO STATION	608	608	609	609	609													
			CURB RAMP SF	DETECTABLE WARNING SF	COMBINATION CURB AND GUTTER, TYPE 2 FT	CURB, TYPE 2-A FT	CURB, TYPE 6 FT													
C6	173	75+50.00 RT 4434+26.29 LT					702													
C7	178	CR99 WEST SPLITTER ISLAND					480													
C8	178	RAMP C SPLITTER ISLAND					281													
C9	178	635+75.00 RT 637+41.44 RT					126													
C10	178	RAMP A SPLITTER ISLAND						140												
C11	178	CR99 CENTER SPLITTER ISLAND					114													
C12	178	RAMP A SPLITTER ISLAND						139												
C13	178	RAMP A SPLITTER ISLAND					502													
C14	178	433+37.93 RT 435+50.00 RT					181													
C15	178	CR99 CENTER SPLITTER ISLAND						67												
C16	186	86+27.98 RT 533+78.97 LT					226													
C17	182	86+30.10 LT 737+69.97 LT					200													
C18	186	CR99 CENTER SPLITTER ISLAND						61												
C19	186	CR99 CENTER SPLITTER ISLAND					115													
C20	186	RAMP D SPLITTER ISLAND					383													
C21	186	RAMP B SPLITTER ISLAND						73												
C22	186	RAMP B SPLITTER ISLAND					347													
C23	186	RAMP B SPLITTER ISLAND						68												
C24	186	535+55.42 RT 93+00.00 RT					463													
C25	186	CR99 EAST SPLITTER ISLAND					433													
C26	190	93+00.00 RT 6+25.00 LT				325														
C27	186	737+06.23 RT 93+00.00 LT					587													
C28	190	93+00.00 LT 10+80.00 LT				82														
C29	190	6+25.00 RT 9+00.00 LT				1119														
C30	190	10+82.81 RT 105+55.30 LT				1145														
C31	198	9+00.00 RT 9+21.70 LT				1042														
C32	204	111+64.00 LT 11+50.00 LT				129														
C33	204	10+62.16 RT 114+44.85 LT				182														
C34	204	9+21.31 RT 113+17.34 RT				59														
C35	430	125+86.34 LT 130+35.50 LT				449														
C36	243	1+43.46 RT 1+69.20 RT				33														
C37	243	1+44.66 LT 1+66.27 LT				29														
C38	243	1+50.01 LT 1+82.15 LT						43												
C39	243	1+50.00 RT 1+80.79 RT						42												
C40	432	138+50.05 RT 142+57.25 RT				403														
C41	198	101+62.00 LT 101+86.55 LT						52												
C42	198	102+23.96 LT 102+48.17 LT						52												
C43	201	108+03.43 LT 108+27.89 LT						42												
C44	201	108+59.02 LT 108+83.56 LT						42												
CR1	164	9+27.00 RT	154																	
CR2	164	60+22.00 RT	154																	
CR3	178	4435+88.00 LT	242																	
CR4	178	4435+88.00 RT		20																
CR5	178	282+58.00 RT		22																
CR6	178	282+62.00 LT		25																
CR7	186	287+64.00 LT		24																
CR8	186	287+68.00 RT		23																
CR9	186	535+50.00 LT		21																
CR10	186	535+50.00 RT	237																	
TOTALS CARRIED TO SUBSUMMARY TOTAL SHEET 130			787	135	4997	5140	821													

**ROADWAY SUBSUMMARY  
ROADWAY ITEMS**

DESIGN AGENCY  
  
 DESIGNER  
**MJL**  
 REVIEWER  
**VLE 11/22/22**  
 PROJECT ID  
**102375**  
 SHEET TOTAL  
**128 705**



**HAN-75/CR99 INTERCHANGE REHAB**

c:\pwworking\east01\14177058\102375\_65003.dgn 1/26/2024 3:52:32 PM MLORENZ  
 MODEL: Roadway Subsummary 4 PAPER SIZE: 34x22 (in.) DATE: 1/26/2024 TIME: 3:52:32 PM USER: MLORENZ

REF NO.	SHEET NO.	STATION TO STATION		517	606	606	606	606	606	607	607	607	608	609	622	622	622	622	622	622	626	626				
				RAILING, MISC.:57" SINGLE SLOPE CONCRETE MEDIAN BRIDGE RAILING FT	GUARDRAIL, TYPE MGSS, AS PER PLAN FT	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2 EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016) EACH	ANCHOR ASSEMBLY, MGS TYPE T EACH	FENCE, MISC.:WOOD FENCE - BIKEWAY RAILING PER SCD - RM-5.2 FT	FENCE, TYPE CLT, AS PER PLAN, BLACK VYNIL COATED FT	FENCE, TYPE 47 FT	CURB RAMP SF	CURB, TYPE 4-A FT	CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN EACH	CONCRETE BARRIER END SECTION, TYPE D EACH	CONCRETE BARRIER END SECTION, TYPE B, AS PER PLAN EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D EACH	CONCRETE BARRIER SINGLE SLOPE, TYPE B1 FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D FT	BARRIER REFLECTOR, TYPE 1 (ONE-WAY) EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY) EACH			
CR11	190	9+33.00	LT TO										191													
CR12	190	9+33.00	RT										157													
CR13	190	94+58.50	RT										43													
CR14	190	94+58.50	LT										114													
CR15	198	9+35.00	LT										77													
CR16	198	9+35.00	RT										77													
CR17	204	111+82.50	LT										49													
CR18	204	10+50.00	LT										65													
CR19	204	10+50.00	RT										80													
CR20	204	113+21.00	LT										44													
CR21	204	111+82.50	RT										49													
CR22	204	9+16.00	LT										83													
CR23	204	9+16.00	RT										85													
CR24	204	113+20.50	RT										45													
B1	182	183+89.75	LT	635+75.00	RT											1			1		28	2				
B2	182	183+19.30	RT	183+89.75	RT	26											1		1							
B3	182	183+61.75	RT	183+89.75	RT															2		2				
B4	178	282+96.63	LT	283+98.14	LT									1						1		51	3			
B5	182	435+50.00	RT	283+98.14	RT										1					1		32	2			
B6	182	186+17.03	LT	186+42.39	LT											1							2			
B7	182	186+17.03	RT	186+99.93	RT	38											1		1							
B8	182	186+17.03	RT	186+45.03	RT																		2			
B9	182	286+25.47	LT	287+22.19	LT									1								49	2			
B10	182	286+25.47	RT	286+48.45	RT										1								2			
B11	182	1034+63.61	LT	1035+80.53	LT															117			4			
B13	221	531+28.07	RT	531+99.40	RT											1						44	2			
B14	221	527+63.86	RT	528+15.11	RT											1						23	2			
GR1	178	635+75.00	RT	637+91.43	RT		100	1	1	1				18.2									3			
GR2	178	433+18.11	RT	435+50.00	RT		187.5			1													3			
GR3	182	735+32.46	LT	736+89.93	LT		112.5		1														2			
GR4	182	533+28.99	LT	286+48.45	RT		200	1		1				18.2									4			
GR5	186	289+24.59	LT	738+83.62	RT		275			1	1												4			
GR6	186	531+99.40	RT	535+40.22	RT		319.3		1		1												4			
GR7	219	523+38.57	RT	527+63.86	RT		350	1		1				18.2									5			
GR8	226	637+62.50	LT	644+13.56	LT		587.5			1	1												7			
GR9	230	646+43.21	LT	648+68.74	LT		162.5			1	1												3			
F1	173	73+70.00	LT	81+08.17	LT							745														
F2	173	73+70.00	RT	80+97.67	RT							745														
F3	182	83+49.48	RT	86+32.84	RT																					
F4	186	88+49.27	LT	93+30.00	LT							284														
F5	186	89+08.71	RT	93+00.00	RT							486														
												410														
F6	178	1028+30.09	LT	1034+15.28	LT																					
F7	208	1018+78.39	LT	1021+72.45	LT								632													
F8	178	1037+19.11	LT	1050+03.74	LT								295													
F9	182	183+75.84	RT	283+84.25	LT								1330													
F10	182	186+30.97	RT	286+39.38	LT							15														
												15														
F11	186	1037+29.03	RT	1044+07.29	RT								716													
F12	186	1030+34.79	RT	1034+30.30	RT								475													
TOTALS CARRIED TO SUBSUMMARY TOTAL SHEET 130						64	2295	3	3	6	6	284	2416	3448	1159	55	2	6	2	2	2	12	117	227	25	35

**ROADWAY SUBSUMMARY  
ROADWAY ITEMS**

DESIGN AGENCY



DESIGNER  
MJL

REVIEWER  
VLE 11/22/22

PROJECT ID  
102375

SHEET TOTAL  
129 705



TOTALS CARRIED FROM SHEET LISTED BELOW		202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202																
		SY	SF	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT															
126		30991	11135	117																																																				
127		1100		228	371	9383	3331	3974																																																
128																																																								
129																																																								
TOTAL CARRIED TO GENERAL SUMMARY		32,091	11,135	345	371	9,383	3,331	3,974																																																
TOTALS CARRIED FROM SHEET LISTED BELOW		517	606	606	606	606	606	607	607	607	608	608	609	609	609	609	609	622	622	622	622	622	622	622	622	622	622	622	622	622	622	626	626																							
		FT	FT	EACH	EACH	EACH	EACH	FT	FT	FT	SF	SF	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
126																																																								
127																																																								
128																																																								
129		64	2295	3	3	6	6	284	2416	3448	787	135	1065	739																																										
TOTAL CARRIED TO GENERAL SUMMARY		64	2,295	3	3	6	6	284	2,416	3,448	1,946	135	6,062	5,879	55	821	2	6	2	2	2	12	117	227	25	35																														

ROADWAY SUBSUMMARY  
PROJECT TOTALS



**HAN-75/CR99 INTERCHANGE REHAB**

MODEL: Pavment Subsummary 2 PAPER SIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 1:54:33 AM USER: COZA  
 pw:\pwhdruseas01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_interchange\60\_CAD\_BIM\6\_2\_WIP\01\_Design\102375\400-Engineering\Roadway\Sheets\Pavement Subsummaries

STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	204	204	204	204	254	302	304	304	407	407	442	442	442	452	452	SPECIAL	203	608
							SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE, 12"	GRANULAR MATERIAL, TYPE C, 12"	PROOF ROLLING	GEOTEXTILE FABRIC	PAVEMENT PLANING, ASPHALT CONCRETE, 3.0"	ASPHALT CONCRETE BASE, PG64-22, (449), 6"	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	NON-TRACKING TACK COAT (0.04 GAL/SY)	NON-TRACKING TACK COAT (0.1 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), 1.75"	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448), FOR WEDGING	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	NON-REINFORCED CONCRETE PAVEMENT, MISC.: 8" CONCRETE SLAB STAMPED AND STAINED	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	ROADWAY, MISC.: DECORATIVE STONE	4" CONCRETE WALK
			FT	FT	SY	SY	SY	CY	CY	HOUR	SY	SY	CY	CY	CY	GAL	GAL	CY	CY	CY	SY	SY	SY	SY	SF
CR 99																									
66+66.64 TO 67+50.00		LT	83.36	17.00 11.00 6.33 6.83 8.00	157.46 101.88 58.66 63.29 74.10											6.30	15.75	6.56	7.65			46.31			
66+66.64 TO 67+50.00		RT	83.36	37.00 35.00 10.00 2.00 5.33 6.50	342.70 324.18 92.62 18.52 49.40 60.20		74.10	24.70	24.70	0.04	74.10														
67+50.00 TO 75+50.00		LT & RT	800.00	48.00 10.00	4266.67 888.89		60.20	20.07	20.07	0.03	60.20	4266.67				170.67	426.67	177.78	207.41						
75+50.00 TO 76+00.00		LT & RT	50.00	59.60 5.00 10.00 62.27 63.27	331.11 27.78 55.56 345.94 351.50																				
76+00.00 TO 77+00.00		LT & RT	100.00	68.00 5.00 10.00 70.67 71.67	755.56 55.56 111.11 785.22 796.33		351.50	117.17	117.17	0.18	351.50														
CR 99 EB																									
177+00.00 TO 177+51.75		LT & RT	51.75	43.00 5.00 10.00 44.33 44.83	247.25 28.75 57.50 254.90 257.77																				
177+51.75 TO 179+77.87		LT & RT	226.12	46.00 5.00 10.00 47.33 47.83	1155.72 125.62 251.24 1189.22 1201.79		257.77	85.92	85.92	0.13	257.77														
179+77.87 TO 181+40.79		LT & RT	162.92	28.00	506.86		1201.79	400.60	400.60	0.60	1201.79														
CR 99 WEST DDI SPLITTER ISLAND							291.06																		
							361.43																		
							387.49	387.49	129.16	129.16	0.19	387.49													
							788.89	788.89			0.39														
CR 99 WB																									
277+00.00 TO 277+75.93		LT&RT	75.93	28.00 29.33 29.83	236.23 247.48 251.69																				
277+75.93 TO 279+04.95		LT&RT	129.02	30.00 31.33 31.83	430.07 449.18 456.35		251.69	83.90	83.90	0.13	251.69														
279+04.95 TO 280+37.89		LT&RT	132.94	32.00 33.33 33.83	472.68 492.37 499.76		456.35	152.12	152.12	0.23	456.35														
280+37.89 TO 281+43.60		LT&RT	105.71	28.00	328.88		499.76	166.59	166.59	0.25	499.76														
WEST DDI CROSS OVER							297.07	297.07	99.02	99.02	0.15	297.07													
SUBTOTALS CARRIED TO SHEET 142							6258.68	1823.26	1823.26	3.13	5469.79	4266.67	12.86	1007.91	25.04	190.67	476.68	198.62	231.72	11.84	5052.48	788.89	92.62	237.71	13112.30

**PAVEMENT SUBSUMMARY  
CR 99**

DESIGN AGENCY  
  
 DESIGNER  
 MJL  
 REVIEWER  
 VLE 11/22/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 132 705



**HAN-75/CR99 INTERCHANGE REHAB**

MODEL: Pavement Subsummary 3 PAPER SIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 1:58:54 AM USER: COZA  
 pw:\pwhdruseas01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_Interchange\60\_CAD\_BIM\6.2\_WIP\01\_Design\102375\400-Engineering\Roadway\Sheets\Pavement Subsummaries

STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SY	CADD GENERATED AREA SY	204	204	204	204	204	304	452	452	203	608											
							SUBGRADE COMPACTION SY	EXCAVATION OF SUBGRADE, 12" CY	GRANULAR MATERIAL, TYPE C, 12" CY	PROOF ROLLING HOUR	GEOTEXTILE FABRIC SY	AGGREGATE BASE, 6" CY	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 SY	NON-REINFORCED CONCRETE PAVEMENT, MISC.: 8" CONCRETE SLAB STAMPED AND STAINED SY	ROADWAY, MISC.: DECORATIVE STONE SY	4" CONCRETE WALK SF											
CR 99 EB																											
182+08.28 TO 183+76.86		LT&RT	168.58	28.00	524.47		524.47	174.82	174.82	0.26	524.47	87.41	524.47														
183+76.86 TO 183+91.76		LT&RT	14.90	35.67	59.05								59.05														
				37.00	61.26							10.21															
				37.50	62.08		62.08	20.69	20.69	0.03	62.08																
CR 99 WB																											
282+11.19 TO 283+81.61		LT&RT	170.42	28.00	530.20		530.20	176.73	176.73	0.27	530.20	88.37	530.20														
283+81.61 TO 284+00.16		LT&RT	18.55	46.15	95.12								95.12														
				47.48	97.87							16.31															
				47.98	98.90		98.90	32.97	32.97	0.05	98.90																
RAMP A DDI SPLITTER ISLAND						508.98							508.98														
						582.62						97.10															
						609.92	609.92	203.31	203.31	0.30	609.92																
						151.68																					
						245.34	245.34			0.12		40.89		245.34									1365.12				
						723.53	723.53			0.36		120.59		723.53													
RAMP C DDI SPLITTER ISLAND						224.22							224.22														
						265.09						44.18															
						280.10	280.10	93.37	93.37	0.14	280.10																
						332.90	332.90			0.17		55.48		332.90													
CR 99 CENTER DDI SPLITTER ISLAND						298.06							298.06														
						300.69							300.69														
						342.05						57.01															
						358.39	358.39	119.46	119.46	0.18	358.39																
						34.79	34.79			0.02		5.80		34.79													
						346.01						57.67															
						362.85	362.85	120.95	120.95	0.18	362.85																
						34.36	34.36			0.02		5.73		34.36													
						231.11									231.11												
						251.61									251.61												
						174.84																	1573.56				
						179.03																	1611.27				
RAMP B DDI SPLITTER ISLAND						207.49							207.49														
						258.21						43.04															
						276.90	276.90	92.30	92.30	0.14	276.90																
						283.06	283.06			0.14		47.18		283.06													
						115.82	115.82			0.06		19.30		115.82													
						76.29																	686.61				
RAMP D DDI SPLITTER ISLAND						327.84							327.84														
						383.91						63.99															
						404.62	404.62	134.87	134.87	0.20	404.62																
						614.02	614.02			0.31		102.34		614.02													
CR 99 EAST DDI SPLITTER ISLAND						325.66							325.66														
CR 99 EAST DDI SPLITTER ISLAND						389.14						64.86															
						412.63	412.63	137.54	137.54	0.21	412.63																
						592.03	592.03			0.30		98.67		592.03													
SUBTOTALS CARRIED TO SHEET 142							6896.91	1307.02	1307.02	3.45	3921.06	1126.11	3401.78	2975.85	482.72	5236.56											

**PAVEMENT SUBSUMMARY  
CR 99**

DESIGN AGENCY  
  
 DESIGNER  
 MJL  
 REVIEWER  
 VLE 11/22/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 133 | 705

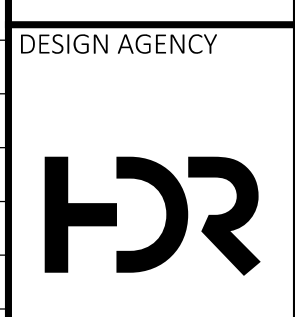


**HAN-75/CR99 INTERCHANGE REHAB**

MODEL: Pavement Subsummary 4 PAPER: 34x22 (in.) DATE: 1/26/2024 TIME: 4:47:21 PM USER: MLORENZ  
pw:\pwhdruas01\HDR\_US\_East\_01\Documents\Ohio\_DOT\DOT\ODT-HAN-75\_99\_Interchange\60\_CAD\_BIM\6\_2\_WIP\01\_Design\102375\400-Engineering\Roadway\Sheets\Pavement Subsummaries

STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	204	204	204	204	204	204	204	302	304	304	407	407	442	442	442	452	SPECIAL	203	608	
							SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE, 12"	EXCAVATION OF SUBGRADE, 24"	GRANULAR MATERIAL, TYPE C, 12"	GRANULAR MATERIAL, TYPE C, 24"	PROOF ROLLING	GEOTEXTILE FABRIC	GEOGRID	ASPHALT CONCRETE BASE, PG64-22, (449), 6"	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	NON-TRACKING TACK COAT (0.04 GAL/SY)	NON-TRACKING TACK COAT (0.1 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), 1.75"	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448), FOR WEDGING	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	ROADWAY, MISC.: DECORATIVE STONE	4" CONCRETE WALK	
			FT	FT	SY	SY	SY	CY	CY	CY	CY	HOUR	SY	SY	CY	CY	CY	GAL	GAL	CY	CY	CY	SY	SY	SY	SF	
CR 99 EB																											
185+15.05	TO	186+43.23	LT & RT	128.18	35.67	507.97																	507.97				
					37.00	526.96											87.83										
					37.50	534.08		534.08	178.03	178.03	0.27	534.08															
186+43.23	TO	188+02.21	LT & RT	158.98	28.00	494.60	494.60	164.87	164.87	0.25	494.60						82.43						494.60				
CR 99 WB																											
286+23.45	TO	287+03.99	LT & RT	80.54	46.00	411.65																	411.65				
					47.33	423.58											70.60										
					47.83	428.06		428.06	142.69	142.69	0.21	428.06															
287+03.99	TO	288+12.87	LT & RT	108.88	42.00	508.11	508.11	169.37	169.37	0.25	508.11						84.68						508.11				
EAST DDI CROSS OVER							467.90	467.90	155.97	155.97	0.23	467.90						77.98						467.90			
CR 99 EB																											
188+89.60	TO	189+82.63	LT & RT	93.03	28.00	289.43	289.43	96.48	96.48	0.14	289.43						48.24						289.43				
189+82.63	TO	190+50.00	RT	67.37	25.00	187.14																	187.14				
					26.33	197.12											32.85										
					26.83	200.86	200.86	66.95	66.95	0.10	200.86																
					5.00	37.43																					
					10.00	74.86																					
190+50.00	TO	191+00.00	RT	50.00	28.00	155.56																	155.56			673.70	
					29.33	162.96											27.16										
					29.83	165.74	165.74	55.25	55.25	0.08	165.74																
					5.00	27.78																					
					10.00	55.56																					
189+82.63	TO	190+58.92	LT	76.29	19.00	161.06	161.06	53.69	53.69	0.08	161.06						26.84						161.06				
190+58.92	TO	191+00.00	LT	41.08	24.00	109.55	109.55	36.52	36.52	0.05	109.55						18.26						109.55				
191+00.00	TO	193+28.01	LT & RT	228.01	50.00	1266.72																	1266.72				
					5.00	126.67																					
					10.00	253.34																					
					51.33	1300.50											216.75									2280.10	
					51.83	1313.17	1313.17	437.72	437.72	0.66	1313.17																
CR 99 WB																											
288+94.37	TO	289+58.19	LT & RT	63.82	42.00	297.83	297.83	99.28	99.28	0.15	297.83						49.64						297.83				
289+58.19	TO	290+91.12	LT & RT	132.93	62.00	915.74											155.91						915.74				
					63.33	935.43																					
					63.83	942.82	942.82	314.27	314.27	0.47	942.82																
290+91.12	TO	291+93.36	LT & RT	102.24	58.00	658.88											112.34						658.88				
					59.33	674.03																					
					59.83	679.71	679.71	226.57	226.57	0.34	679.71																
291+93.36	TO	292+38.00	LT & RT	44.64	54.00	267.84											45.74						267.84				
					55.33	274.45																					
					55.83	276.93		276.93	92.31	92.31	0.14	276.93															
292+38.00	TO	292+88.00	LT & RT	50.00	48.00	266.67											45.68						266.67				
					49.33	274.07																					
					49.83	276.85		276.85	92.28	92.28	0.14	276.85															
292+88.00	TO	293+37.99	LT & RT	49.99	42.00	233.29																	233.29				
					43.33	240.69											40.12										
					43.83	243.47	243.47	81.16	81.16	0.12	243.47																
CR 99 INTERSECTION @ SPEEDWAY DR.							2146.25											85.85	214.63	89.43	104.33		184.35				
						1081.40																					
						1064.85																					
						1174.86																					
						594.03	594.03	198.01	198.01	0.30	594.03																
						617.50	617.50		411.67		411.67	0.31	617.50	617.50													
						26.32																					
						103.62																					
SUBTOTALS CARRIED TO SHEET 142							8601.69	2661.40	411.67	2661.40	411.67	4.30	8601.69	617.50	177.48	1223.05	261.08	85.85	214.63	89.43	104.33	30.04	7199.92	184.35	218.20	4386.38	

**PAVEMENT SUBSUMMARY CR 99**



DESIGN AGENCY
MJL
REVIEWER
DATE 11/22/22
PROJECT ID 102375
SHEET 134
TOTAL 705



HAN-75/CR99 INTERCHANGE REHAB

MODEL: Pavement Subsummary 11 PAPER SIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 2:01:56 AM USER: COZA  
pw:\pwhdruseas01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_Interchange\60\_CAD\_BIM\6\_2\_WIP\01\_Design\102375\400-Engineering\Roadway\Sheets\Pavement Subsummaries

STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	204	204	204	204	204	254	302	304	304	407	407	441	441	441	441	442	442	452	203	608
							SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE, 12"	GRANULAR MATERIAL, TYPE C, 12"	PROOF ROLLING	GEOTEXTILE FABRIC	PAVEMENT PLANING, ASPHALT CONCRETE, 3.0"	ASPHALT CONCRETE BASE, PG64-22, (449), 6"	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	NON-TRACKING TACK COAT (0.04 GAL/SY)	NON-TRACKING TACK COAT (0.1 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), (DRIVEWAYS), 1.25"	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), 1.75"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449), (DRIVEWAYS), 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), 1.75"	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	ROADWAY, MISC.: DECORATIVE STONE	4" CONCRETE WALK
			FT	FT	SY	SY	SY	CY	CY	HOUR	SY	SY	CY	CY	CY	GAL	GAL	CY	CY	CY	CY	CY	CY	SY	SY	SF
SPEEDWAY DR.																										
7+75.00	TO	8+00.00	RT	25.00	15.86 3.95	44.06 10.97						44.06				1.76	4.41						1.84	2.14		98.75
8+00.00	TO	9+11.18	RT	111.18	16.38 16.38 19.71 20.88 3.00 5.00	202.35 202.35 243.48 257.94 37.06 61.77										8.09	20.23						8.43	9.84		
8+00.00	TO	9+11.18	LT	111.18	40.31 40.31 43.64 44.81 3.00 5.00	497.96 497.96 539.10 553.55 37.06 61.77										19.92	49.80						20.75	24.21	37.06	555.90
VENTURA DR.																										
8+50.00	TO	9+38.00	LT & RT	88.00	27.00	264.00						264.00				10.56	26.40						11.00	12.83		
CR. 99 SERVICE ROAD INTERSECTION WITH CR. 99							253.85 310.27						42.31			10.15	25.39		10.58	12.34						
10+62.50	TO	14+91.37	LT & RT	428.87	24.00 24.67 25.67	1143.65 1175.42 1223.07							195.90			45.75	114.37		47.65	55.59						
14+91.37	TO	15+42.83	LT & RT	51.46	27.04 27.71 28.71	154.61 158.44 164.16							26.41			6.18	15.46		6.44	7.52						
15+42.83	TO	15+94.29	LT & RT	51.46	27.04 27.71 28.71	154.61 158.44 164.16							26.41			6.18	15.46		6.44	7.52						
15+94.29	TO	19+22.22	LT & RT	327.93	24.00 24.67 25.67	874.48 898.77 935.21							149.79			34.98	87.45		36.44	42.51						
TURN AROUND AREA							405.35 414.23 427.39						69.04			16.21	40.54		16.89	19.70						
DRIVEWAYS																										
DRIVEWAY 1							57.47	57.47		0.03			9.58													
DRIVEWAY 2							65.81	65.81		0.03			10.97													
DRIVEWAY 3							155.14	155.14		0.08						6.21	15.51	5.39		7.54						
DRIVEWAY 4							161.90	161.90		0.08					35.98											
DRIVEWAY 5 (NOT USED)							117.10	117.10		0.06						4.68	11.71	4.07		5.69						
DRIVEWAY 6							122.14	122.14		0.06					27.14											
DRIVEWAY 7							126.57	126.57		0.06														126.57		
DRIVEWAY 8							97.00	97.00		0.05						3.88	9.70	3.37		4.72						
DRIVEWAY 9							101.34	101.34		0.05					22.52											
DRIVEWAY 10							152.43	152.43		0.08														152.43		
DRIVEWAY 11							232.66	232.66		0.12														232.66		
DRIVEWAY 12							180.28	180.28		0.09														180.28		
DRIVEWAY 13							137.81	137.81		0.07														137.81		
DRIVEWAY 14							118.61	118.61		0.06														118.61		
SUBTOTALS CARRIED TO SHEET 142							2637.75	270.50	270.50	1.32	811.49	308.06	626.58	20.55	976.05	174.57	436.42	12.82	124.44	145.18	17.95	42.02	49.02	948.36	74.12	1210.55

PAVEMENT SUBSUMMARY  
LOCAL ROADS AND DRIVEWAYS

DESIGN AGENCY



DESIGNER  
MJL

REVIEWER  
VLE 11/22/22

PROJECT ID  
102375

SHEET TOTAL  
141 705



**HAN-75/CR99 INTERCHANGE REHAB**

MODEL: Pavement Subsummary - Total Summary Sheet PAPER SIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 2:05:03 AM USER: COZA  
 pw:\pwhdrusa01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_Interchange\60\_CAD\_BIM\6\_2\_WIP\01\_Design\102375\400-Engineering\Roadway\Sheets\Pavement Subsummaries

TOTALS CARRIED FROM SHEETS LISTED BELOW	204	204	204	204	204	204	204	204	204	204	254	302	302	304	304	407	407	441	441	441	441	442	442	442	452	452	452	SPECIAL	203	608	
	SUBGRADE COMPACTION	EXCAVATION OF SUBGRADE, 12"	EXCAVATION OF SUBGRADE, 16"	EXCAVATION OF SUBGRADE, 24"	GRANULAR MATERIAL, TYPE C, 12"	GRANULAR MATERIAL, TYPE C, 16"	GRANULAR MATERIAL, TYPE C, 24"	PROOF ROLLING	GEOTEXTILE FABRIC	GEOGRID	PAVEMENT PLANING, ASPHALT CONCRETE, 3.0"	ASPHALT CONCRETE BASE, PG64-22, (449), 6"	ASPHALT CONCRETE BASE, PG64-22, (449), 12.5"	AGGREGATE BASE, 6"	AGGREGATE BASE, 8"	NON-TRACKING TACK COAT (0.04 GAL/SY)	NON-TRACKING TACK COAT (0.1 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), (DRIVEWAYS), 1.25"	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), 1.75"	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449), (DRIVEWAYS), 1.75"	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 1.5"	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), 1.75"	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (448), FOR WEDGING	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS OCl	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS OCl	NON-REINFORCED CONCRETE PAVEMENT, MISC.: 8" CONCRETE SLAB STAMPED AND STAINED	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	ROADWAY, MISC.: DECORATIVE STONE	4" CONCRETE WALK	
	SY	CY	CY	CY	CY	CY	HR	SY	SY	SY	CY	CY	CY	CY	GAL	GAL	CY	CY	CY		CY	CY	CY	SY	SY	SY	SY	SY	SY	SF	
SHEET 1	3504.01	1168.00			1168.00		1.75	3504.01		61.82	470.64			707.81	324.40	811.01															7145.90
SHEET 2	6258.68	1823.26			1823.26		3.13	5469.79		4266.67	12.86			25.04	190.67	476.68										5052.48	788.89	92.62	237.71	13112.30	
SHEET 3	6896.91	1307.02			1307.02		3.45	3921.06						1126.11												3401.78	2975.85		482.72	5236.56	
SHEET 4	8601.69	2661.40		411.67	2661.40		4.30	8601.69	617.50		177.48			1223.05	261.08	85.85	214.63									7199.92		184.35	218.20	4386.38	
SHEET 5	4802.94	1224.94		752.07	1224.94		2.40	4802.94	1128.11	1637.33	577.24			990.28	500.11	1250.27												1498.70	578.95	24006.60	
SHEET 6	1873.68	624.56			624.56		0.94	1873.68			171.99			368.14	131.00	327.50												957.38	22.92	3119.19	
SHEET 7	6876.01	2292.00			2292.00		3.44	6876.01		3035.55	265.94	126.30	769.50	368.04	198.13	495.32										4415.89		734.54	77.17	1337.40	
SHEET 8	8336.58	2778.86			2778.86		4.17	8336.58		1132.21	124.16			1223.97	171.34	74.30	185.75									7015.33		260.61	62.01	1007.28	
SHEET 9	4390.84	1177.39	381.63		1177.39	381.63	2.20	4390.84		1352.02	202.65			493.18	279.23	114.31	285.79									2793.64		406.47			
SHEET 10	831.30	277.10			277.10		0.42	831.30		663.15	107.58			172.36	52.14	130.34												97.22	58.33	1116.54	
SHEET 11	2637.75	270.50			270.50		1.32	811.49		308.06	626.58			20.55	976.05	174.57	436.42	12.82	124.44	145.18	17.95			948.36				74.12	1210.55		
SUBTOTAL	55010.38	15605.04	381.63	1163.74	15605.04	381.63	27.51	49419.38	1745.61	12456.81	2737.11	126.30	5864.26	4319.38	1845.48	4613.70		12.82	124.44	145.18	17.95	1782.55	2079.64	563.98	948.36	29879.03	3764.74	5582.21	1812.13	61678.70	
TOTAL CARRIED TO GENERAL SUMMARY	55,011		17,151			17,151	28	49,420	1,746	12,457	2,864			10,184	6,460		13	125	146	18	1,783	2,080	564	949	29,880	3,765	5,583	1,813	61,679		

**PAVEMENT SUBSUMMARY  
PROJECT TOTALS**

DESIGN AGENCY



DESIGNER  
MJL

REVIEWER  
VLE 11/22/22

PROJECT ID  
102375

SHEET TOTAL  
142 | 705

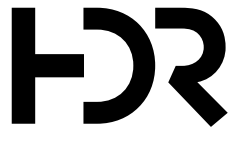


**HAN-75/CR99 INTERCHANGE REHAB**

MODEL SHEET PAPER SIZE: 34x22 (in.) DATE: 2/2/2024 TIME: 8:56:25 AM USER: COZA  
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REF. NO.	SHEET NO.	ALIGNMENT	STATION		602	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611	611				
			FROM	TO	CY	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EA	EA	EA	EA	EA	EA	EA	EA		
D-412	204 , 427	CR 99	111+50.00	LT	111+52.00	LT																																				
D-466	204 , 427	CR 99	111+52.00	LT	112+80.50	LT																																				
D-481	204 , 427	CR 99	111+55.00	RT	111+30.00	RT																																				
D-517	204 , 427	CR 99	111+59.00	RT	111+55.00	RT																																				
D-480	204 , 427	CR 99	112+80.50	LT	116+68.00	LT																																				
D-526	428 , 428	CR 99	116+67.82	LT	116+68.00	LT																																				
D-485	428 , 428	CR 99	116+68.00	LT	119+49.85	LT																																				
D-488	428 , 428	CR 99	119+49.85	LT	124+50.00	LT	0.6																																			
D-505	429	CR 99	124+50.00	LT	124+99.79	LT																																				
D-506	429	CR 99	124+99.79	LT																																						
D-527	429	CR 99	125+00.49	LT																																						
D-528	429 , 430	CR 99	125+89.92	LT	129+00.00	LT																																				
D-501	430	CR 99	129+00.00	LT	129+37.00	RT																																				
D-509	430 , 431	CR 99	129+37.00	RT	132+68.00	RT																																				
D-495	430	CR 99	130+25.55	LT	129+00.00	LT																																				
D-510	431	CR 99	132+68.00	RT	135+04.00	RT																																				
D-497	431	CR 99	132+69.23	RT	132+68.00	RT	0.8																																			
D-504	431	CR 99	135+04.00	RT	135+84.00	RT	1.7																																			
D-519	431	CR 99	135+84.00	RT	135+84.00	RT	0.4	5																																		
D-511	431 , 432	CR 99	135+84.00	RT	137+00.86	RT																																				
D-498	432	CR 99	137+00.45	RT	137+00.86	RT																																				
D-503	432	CR 99	137+00.86	RT	139+50.00	RT																																				
D-520	432	CR 99	139+43.00	RT	139+50.00	RT	0.4	5																																		
D-502	432	CR 99	139+50.00	RT	140+60.00	RT	0.4																																			
D-512	432 , 433	CR 99	140+60.00	RT	141+82.00	RT																																				
D-513	433	CR 99	141+82.00	RT	142+48.20	RT	0.4																																			
D-500	433	CR 99	142+48.20	RT	144+90.00	RT	0.4																																			
D-522	433	CR 99	142+49.59	RT	142+48.20	RT																																				
D-524	433	CR 99	144+90.00	RT	145+75.00	RT	0.8																																			
D-507	433 , 434	CR 99	145+75.00	RT	146+60.00	RT																																				
D-529	434	CR 99	146+59.16	RT	146+60.00	RT																																				
D-499	434	CR 99	146+60.00	RT	147+52.00	RT																																				
D-514	434	CR 99	147+52.00	RT	148+49.00	RT																																				
D-530	434	CR 99	148+48.75	RT	148+49.00	RT																																				
D-515	434	CR 99	148+49.00	RT	150+52.00	RT																																				
D-531	434	CR 99	150+51.02	RT	150+52.00	RT																																				
D-516	434 , 435	CR 99	150+52.00	RT	153+05.00	RT																																				
OUTFALL-3	435	CR 99	153+05.00	RT			1.9																																			
D-229	178	CR 99 EB	178+05.00	RT	178+05.00	RT																																				
D-230	178	CR 99 EB	178+05.00	RT			0.3																																			
D-225	178	CR 99 EB	178+86.00	RT	178+86.00	RT																																				
D-226	178	CR 99 EB	178+86.00	RT			0.3																																			
D-221	178	CR 99 EB	179+93.00	LT	179+93.00	RT																																				
D-222	178	CR 99 EB	179+93.00	RT			0.3																																			
D-205	178 , 169 , 226	CR 99 EB	183+00.00	RT	CR 99 WB 282+93.00	LT																																				
D-317	186 , 223 , 226	CR 99 EB	187+40.00	RT	CR 99 WB 287+35.00	LT																																				
SUBTOTAL CARRIED TO SHEET 149							8.7	10	5	151	157	188	0	75	0	0	0	0	22	14	0	0	0	0	0	0	522	832	308	639	232	580	322	455	185	8	4	3	1	2	20	1

**DRAINAGE  
SUBSUMMARY**

DESIGN AGENCY  
  
 DESIGNER  
 SNM  
 REVIEWER  
 KAG 11/22/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 147 705

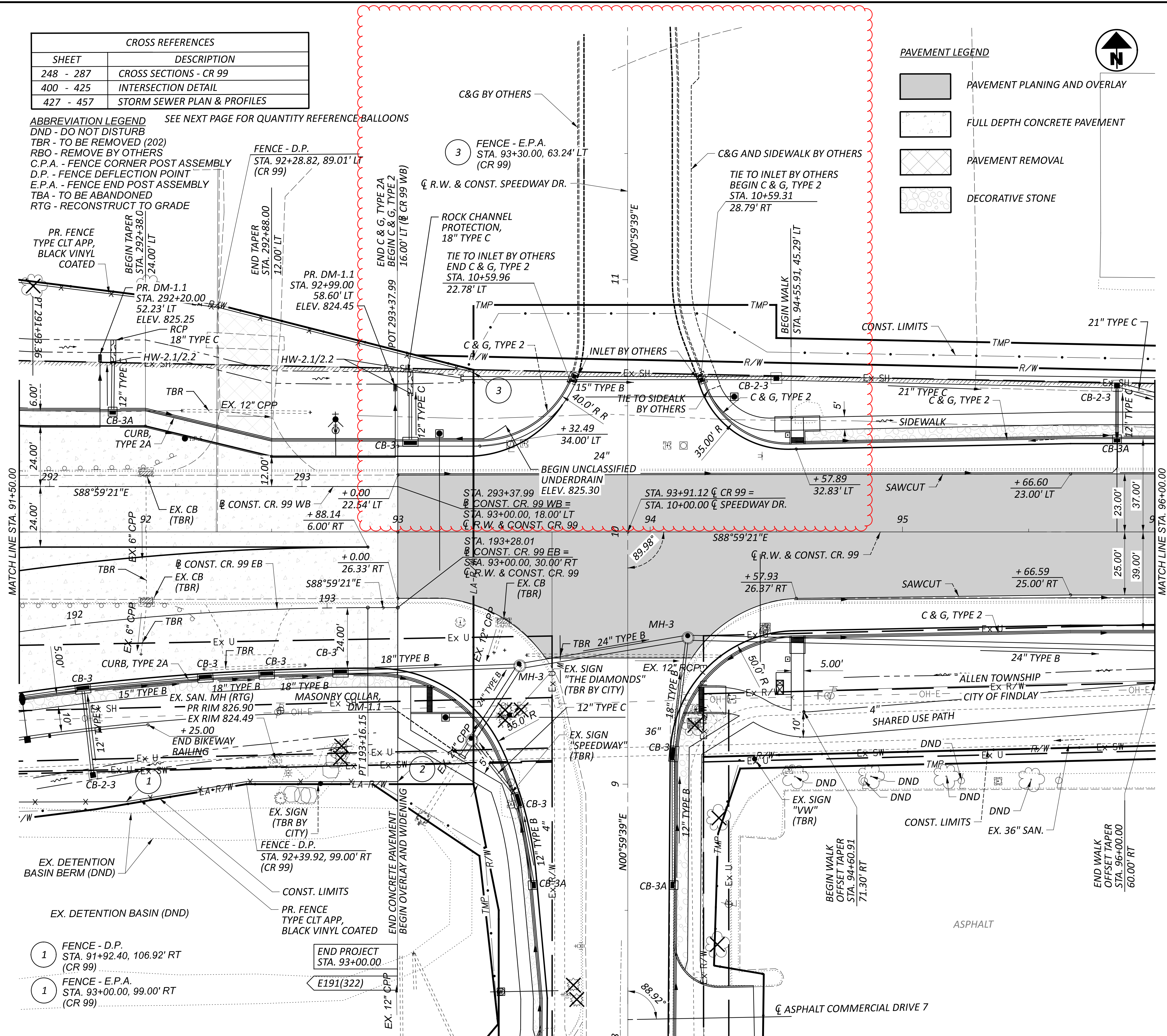






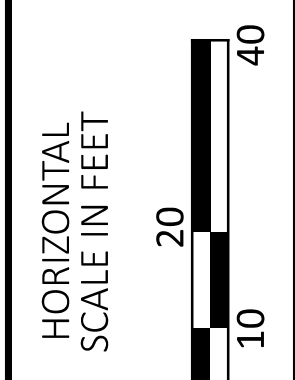
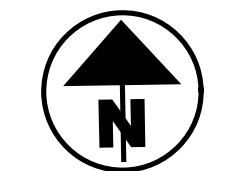
CROSS REFERENCES	
SHEET	DESCRIPTION
248 - 287	CROSS SECTIONS - CR 99
400 - 425	INTERSECTION DETAIL
427 - 457	STORM SEWER PLAN & PROFILES

**ABBREVIATION LEGEND** SEE NEXT PAGE FOR QUANTITY REFERENCE BALLOONS  
 DND - DO NOT DISTURB  
 TBR - TO BE REMOVED (202)  
 RBO - REMOVE BY OTHERS  
 C.P.A. - FENCE CORNER POST ASSEMBLY  
 D.P. - FENCE DEFLECTION POINT  
 E.P.A. - FENCE END POST ASSEMBLY  
 TBA - TO BE ABANDONED  
 RTG - RECONSTRUCT TO GRADE



**PAVEMENT LEGEND**

- PAVEMENT PLANING AND OVERLAY
- FULL DEPTH CONCRETE PAVEMENT
- PAVEMENT REMOVAL
- DECORATIVE STONE



**PLAN SHEET - CR 99**  
 STA. 91+50.00 TO STA. 96+00.00

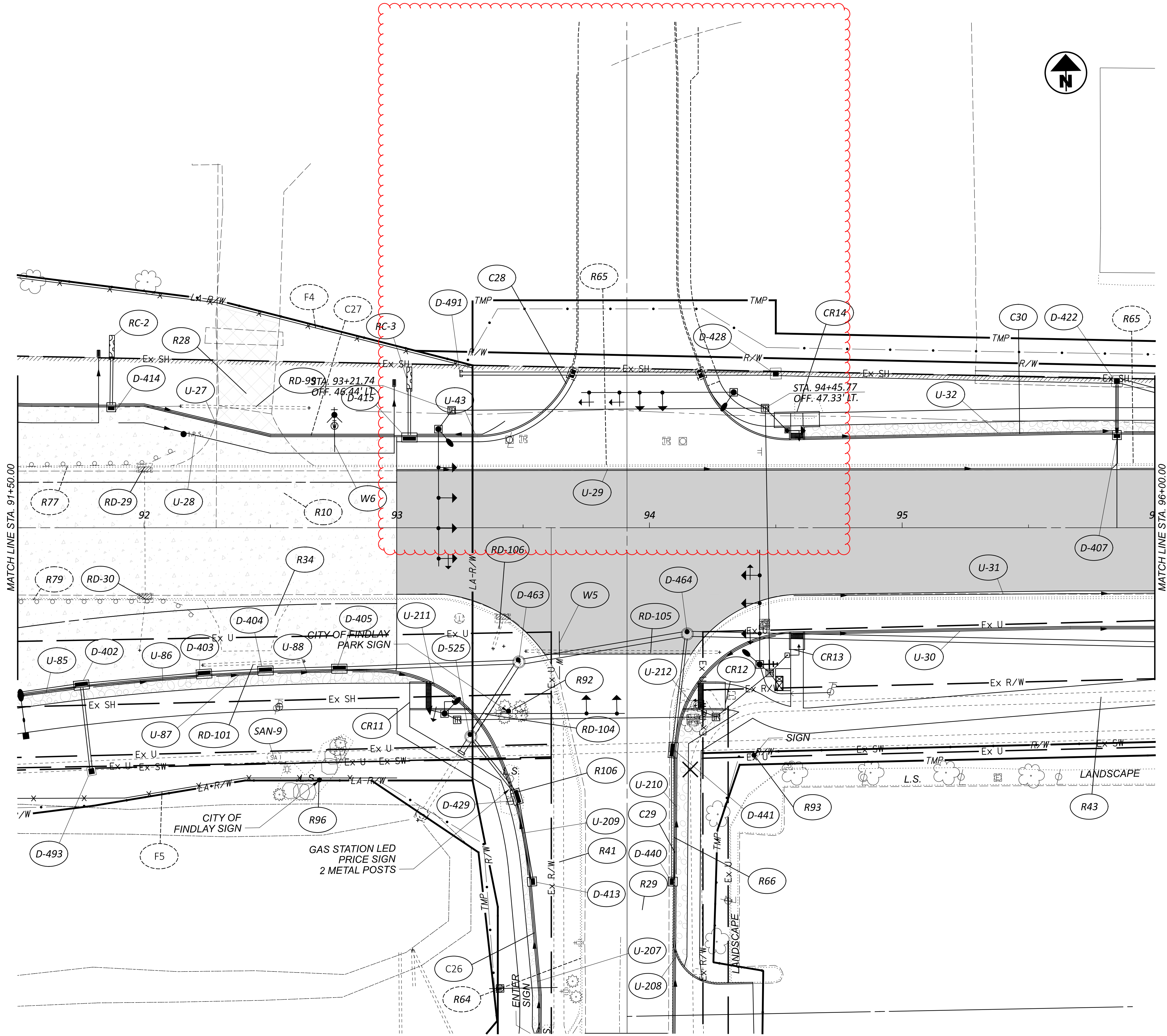
- 1 FENCE - D.P.  
STA. 91+92.40, 106.92' RT  
(CR 99)
- 1 FENCE - E.P.A.  
STA. 93+00.00, 99.00' RT  
(CR 99)

DESIGN AGENCY	
DESIGNER	MJL
REVIEWER	KF
PROJECT ID	102375
SHEET	189
TOTAL	705



HAN-75/CR99 INTERCHANGE REHAB

MODEL: 102375\_GPO10A PAPER SIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 2:57:15 AM USER: COZA  
p:\p\h\druseas01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_interchange\6.0\_CAD\_BIM\6.2\_WIP\01\_Design\102375\400-Engineering\Roadway\Sheets\QUANTITY PLAN CR99 STA. 91+00.00 TO STA. 96+00.00



QUANTITY PLAN SHEET - CR 99  
STA. 91+50.00 TO STA. 96+00.00

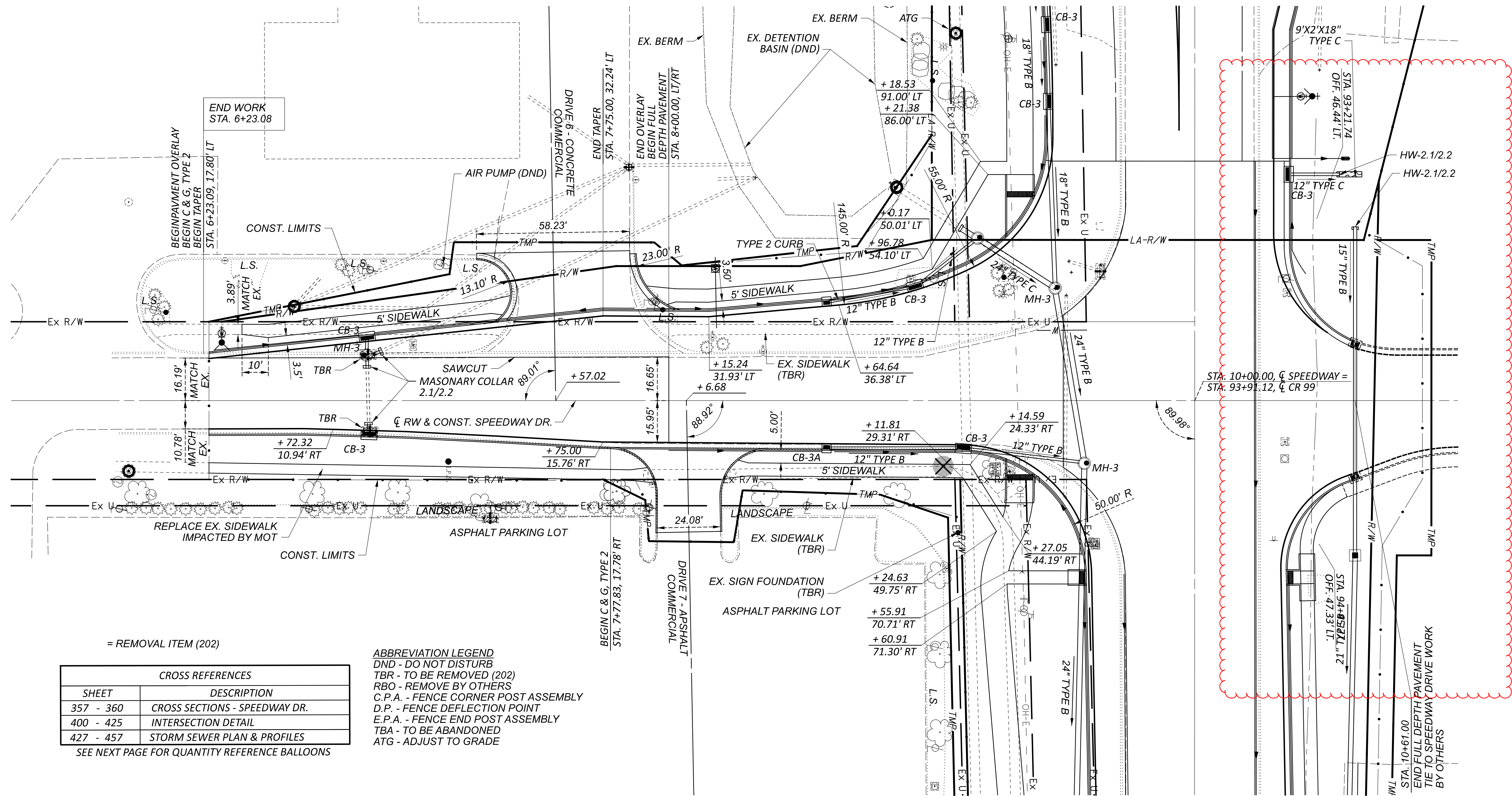


DESIGN AGENCY



DESIGNER	MJL
REVIEWER	KF 05/20/22
PROJECT ID	102375
SHEET	TOTAL
190	705



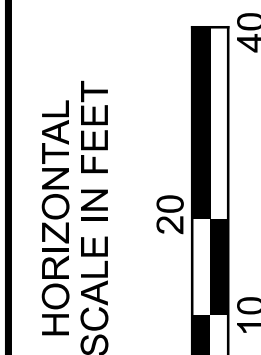


= REMOVAL ITEM (202)

CROSS REFERENCES	
SHEET	DESCRIPTION
357 - 360	CROSS SECTIONS - SPEEDWAY DR.
400 - 425	INTERSECTION DETAIL
427 - 457	STORM SEWER PLAN & PROFILES

SEE NEXT PAGE FOR QUANTITY REFERENCE BALLOONS

**ABBREVIATION LEGEND**  
 DND - DO NOT DISTURB  
 TBR - TO BE REMOVED (202)  
 RBO - REMOVE BY OTHERS  
 C.P.A. - FENCE CORNER POST ASSEMBLY  
 D.P. - FENCE DEFLECTION POINT  
 E.P.A. - FENCE END POST ASSEMBLY  
 TBA - TO BE ABANDONED  
 ATG - ADJUST TO GRADE



PLAN - SPEEDWAY AVE.  
 STA. 5+50.00 TO STA. 10+00.00

DESIGN AGENCY

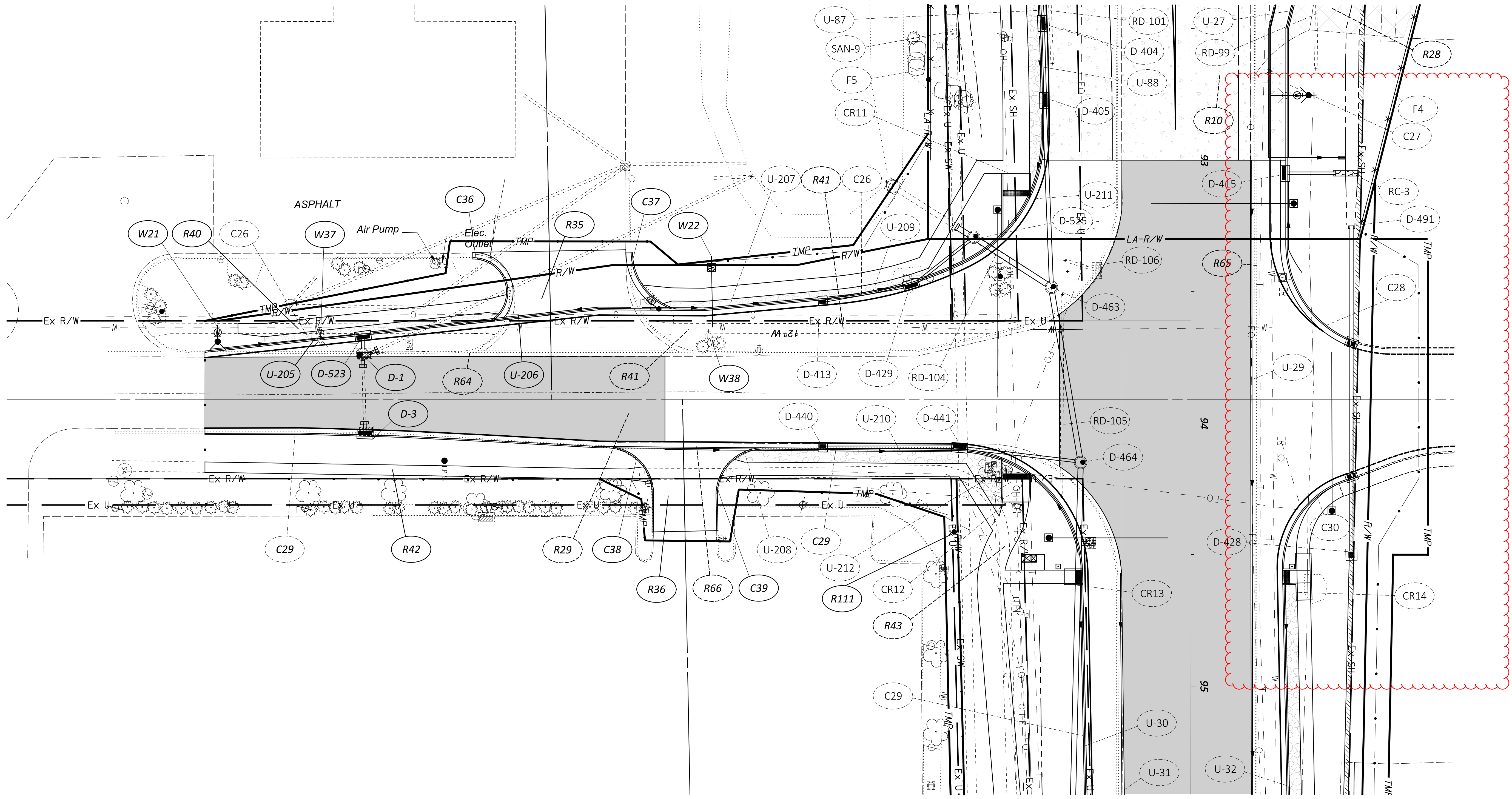


DESIGNER	MJL
REVIEWER	KF 05/20/22
PROJECT ID	102375
SHEET	TOTAL
242	705



# HAN-75/CR99 INTERCHANGE REHAB

MODEL: 102375\_GP501A\_PAPERSIZE: 34x22 (in.) DATE: 2/5/2024 TIME: 3:01:06 AM USER: COZA  
p:\pwhdr\users\coza\01\Documents\Ohio\_D01\ODT\ODT-HAN-75\_99\_interchange\6.0\_CAD\_BIM\6.2\_WIP\01\_Design\102375\_400\_Engineer\Ing\Roadway\Sheet's\PLAN - SPEEDWAY STA. 5+50.00 TO STA. 10+00.00\_QUANTITY\_BUBBLES

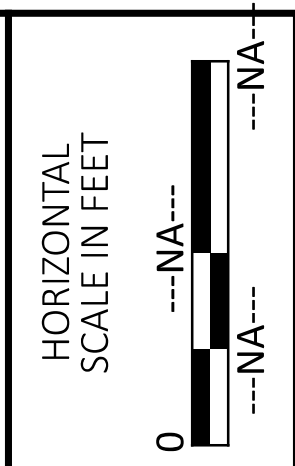
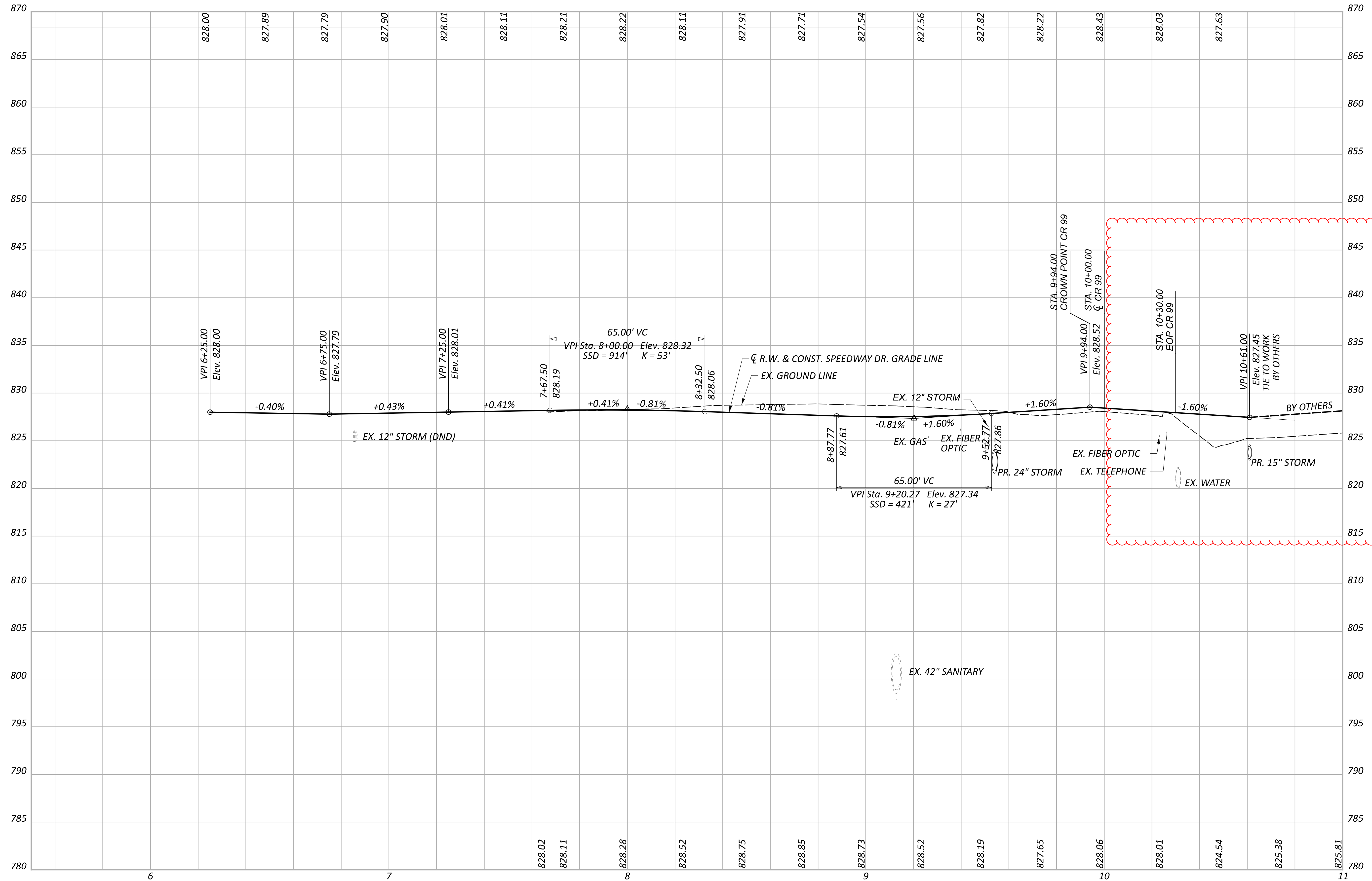


QUANTITY PLAN - SPEEDWAY AVE.  
STA. 5+50.00 TO STA. 10+00.00

DESIGN AGENCY	
DESIGNER	MJL
REVIEWER	KF 05/20/22
PROJECT ID	102375
SHEET	243
TOTAL	705

**HAN-75/CR99 INTERCHANGE REHAB**

c:\pwworking\east01\1477058\102375\_GF501.dgn 1/25/2024 6:26:55 PM MLORENZ  
 MODEL: 102375\_GF501 PAPER SIZE: 34x22 (in.) DATE: 1/25/2024 TIME: 6:26:55 PM USER: MLORENZ



**PROFILE SHEET - SPEEDWAY DRIVE  
 STA. 5+50.00 TO STA. 11+00.00**

DESIGN AGENCY



DESIGNER  
**MJL**

REVIEWER  
 KF 05/20/22

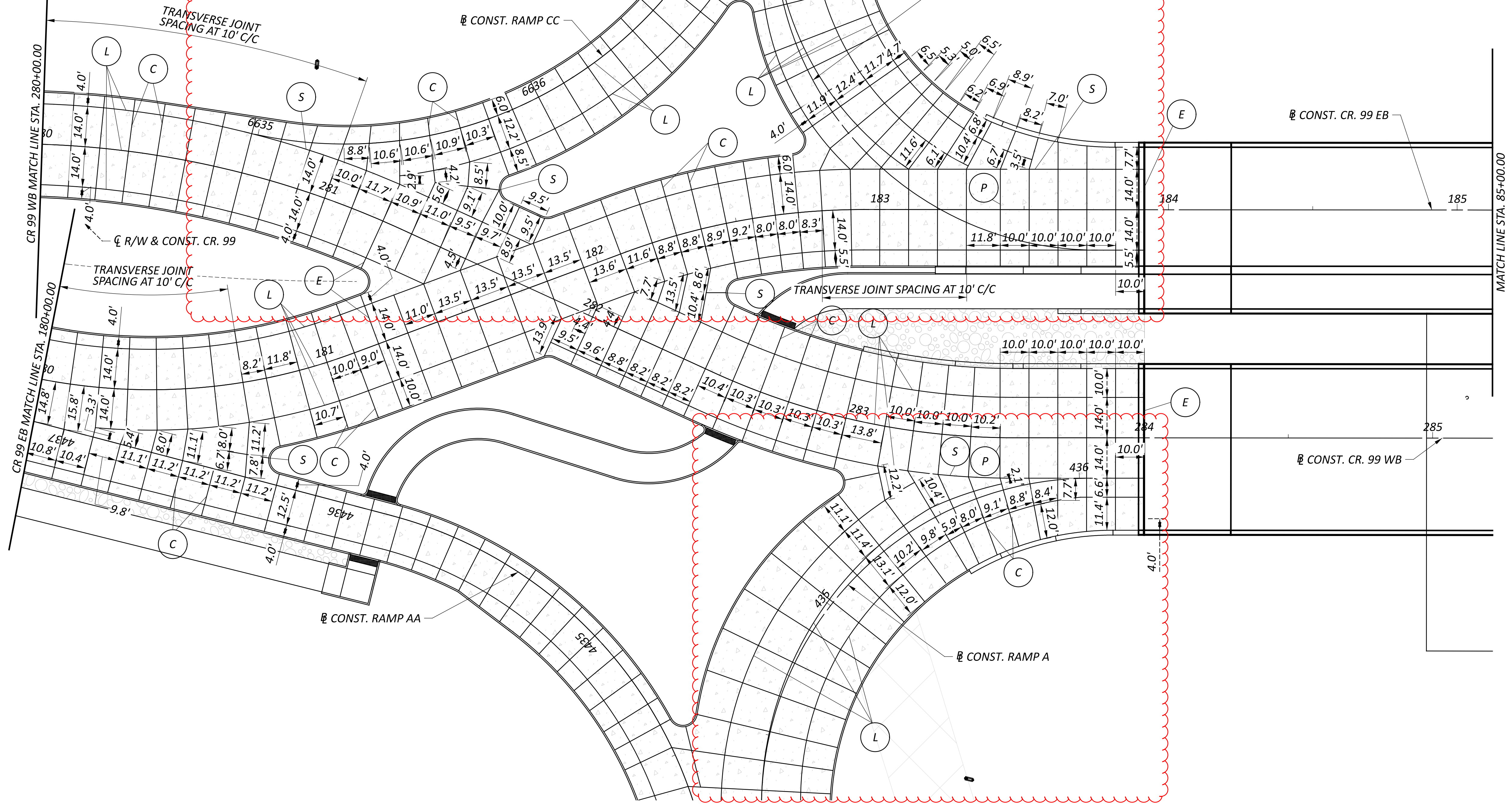
PROJECT ID  
 102375

SHEET TOTAL  
 244 | 705



- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- (C) CONTRACTION JOINT AS PER BP-2.2
- (E) EXPANSION JOINT AS PER BP-2.2
- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
- (P) PRESSURE RELIEF JOINT TYPE A AS PER BP-2.3
- (Y) BUTT JOINT BETWEEN EXISTING PAVEMENT AND PROPOSED PAVEMENT. A DOWELED TYPE Y JOINT AS PER BP-2.5 SHALL BE PROVIDED. GROUTING AND DRILLING REQUIREMENTS SHALL BE PER SPECIFICATIONS 255 AND BP-2.5 EXCEPT REQUIREMENT THAT THE DRILLING DEVICE SHALL BE CAPABLE OF DRILLING THREE HOLES AT ONE TIME SHALL BE WAIVED.

— PROPOSED JOINT LINE  
 - - - EXISTING JOINT LINE



CROSS REFERENCES	
SHEET	DESCRIPTION
380 -	RAMP A & AA JOINT DETAILS
384 - 385	RAMP C & CC JOINT DETAILS



PAVEMENT JOINT DETAIL  
 CR. 99, CR. 99 EB, AND CR. 99 WB

DESIGN AGENCY



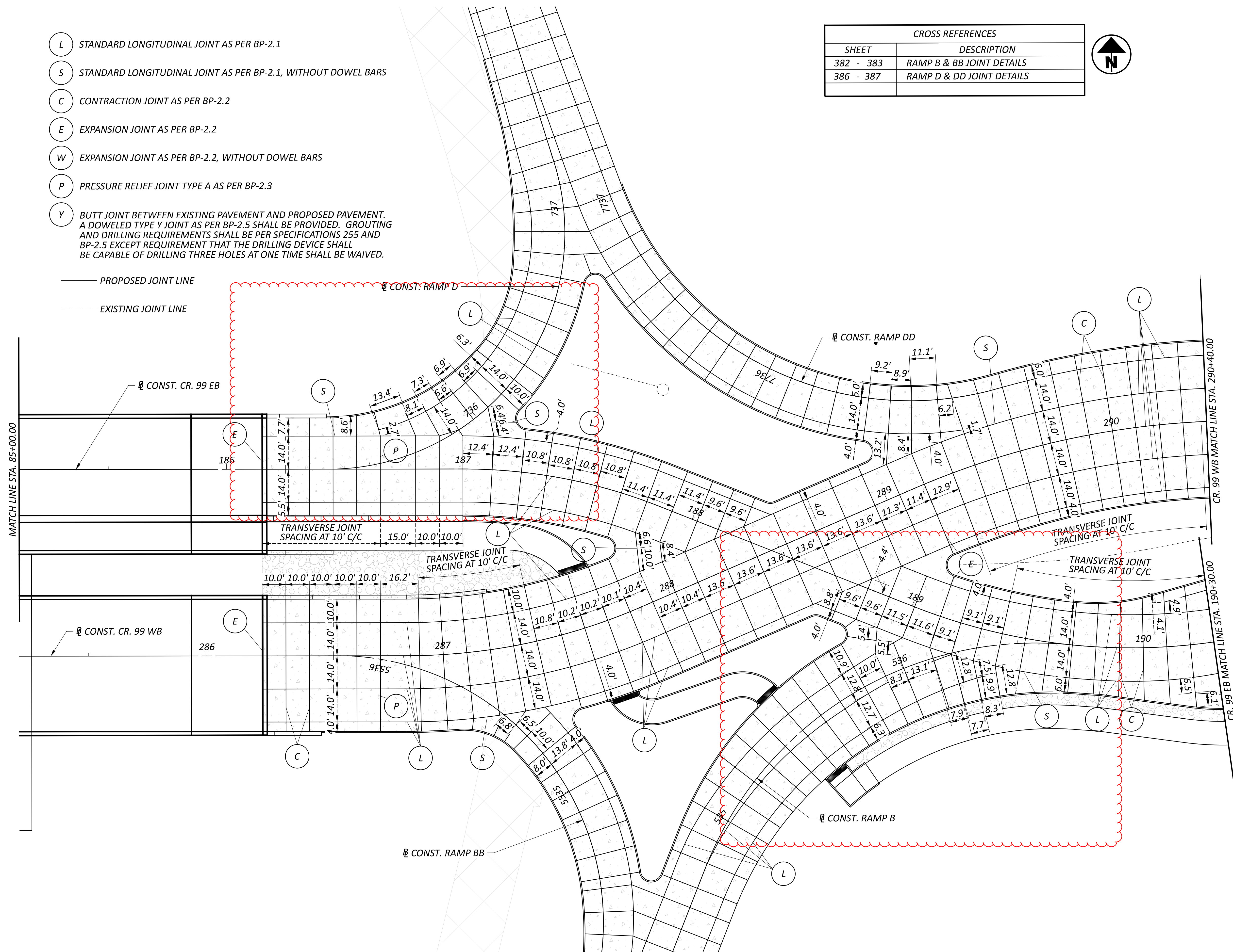
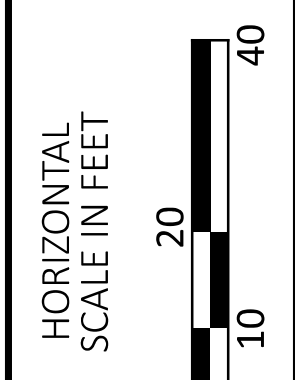
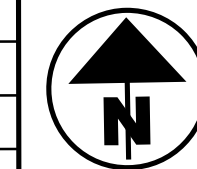
DESIGNER	MJL
REVIEWER	VLE 05/20/22
PROJECT ID	102375
SHEET	TOTAL
377	705



- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- (C) CONTRACTION JOINT AS PER BP-2.2
- (E) EXPANSION JOINT AS PER BP-2.2
- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
- (P) PRESSURE RELIEF JOINT TYPE A AS PER BP-2.3
- (Y) BUTT JOINT BETWEEN EXISTING PAVEMENT AND PROPOSED PAVEMENT. A DOWELED TYPE Y JOINT AS PER BP-2.5 SHALL BE PROVIDED. GROUTING AND DRILLING REQUIREMENTS SHALL BE PER SPECIFICATIONS 255 AND BP-2.5 EXCEPT REQUIREMENT THAT THE DRILLING DEVICE SHALL BE CAPABLE OF DRILLING THREE HOLES AT ONE TIME SHALL BE WAIVED.

— PROPOSED JOINT LINE  
 - - - EXISTING JOINT LINE

CROSS REFERENCES	
SHEET	DESCRIPTION
382 - 383	RAMP B & BB JOINT DETAILS
386 - 387	RAMP D & DD JOINT DETAILS



PAVEMENT JOINT DETAIL  
 CR. 99, CR. 99 EB, AND CR. 99 WB

DESIGN AGENCY



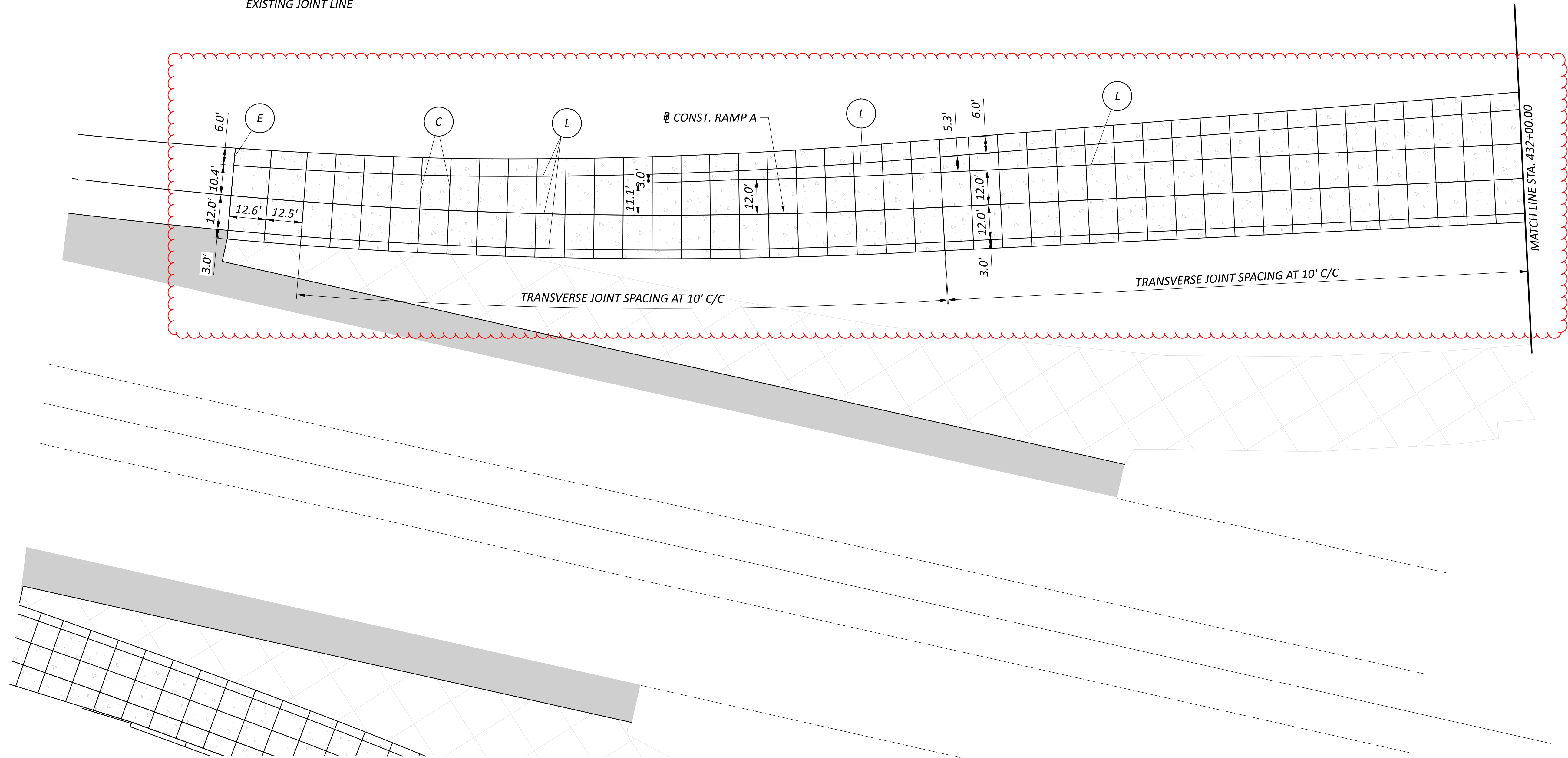
DESIGNER  
 MJL  
 REVIEWER  
 VLE 05/20/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 378 705



- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- (C) CONTRACTION JOINT AS PER BP-2.2
- (E) EXPANSION JOINT AS PER BP-2.2
- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
- (P) PRESSURE RELIEF JOINT TYPE A AS PER BP-2.3
- (Y) BUTT JOINT BETWEEN EXISTING PAVEMENT AND PROPOSED PAVEMENT. A DOWELED TYPE Y JOINT AS PER BP-2.5 SHALL BE PROVIDED. GROUTING AND DRILLING REQUIREMENTS SHALL BE PER SPECIFICATIONS 255 AND BP-2.5 EXCEPT REQUIREMENT THAT THE DRILLING DEVICE SHALL BE CAPABLE OF DRILLING THREE HOLES AT ONE TIME SHALL BE WAIVED.

PROPOSED JOINT LINE

EXISTING JOINT LINE



PAVEMENT JOINT DETAIL  
RAMP A

DESIGN AGENCY



DESIGNER  
MJL

REVIEWER  
VLE 05/20/22

PROJECT ID  
102375

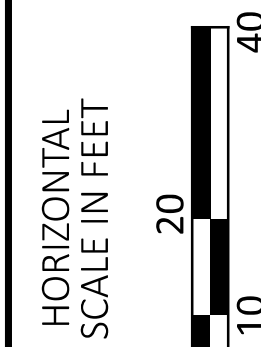
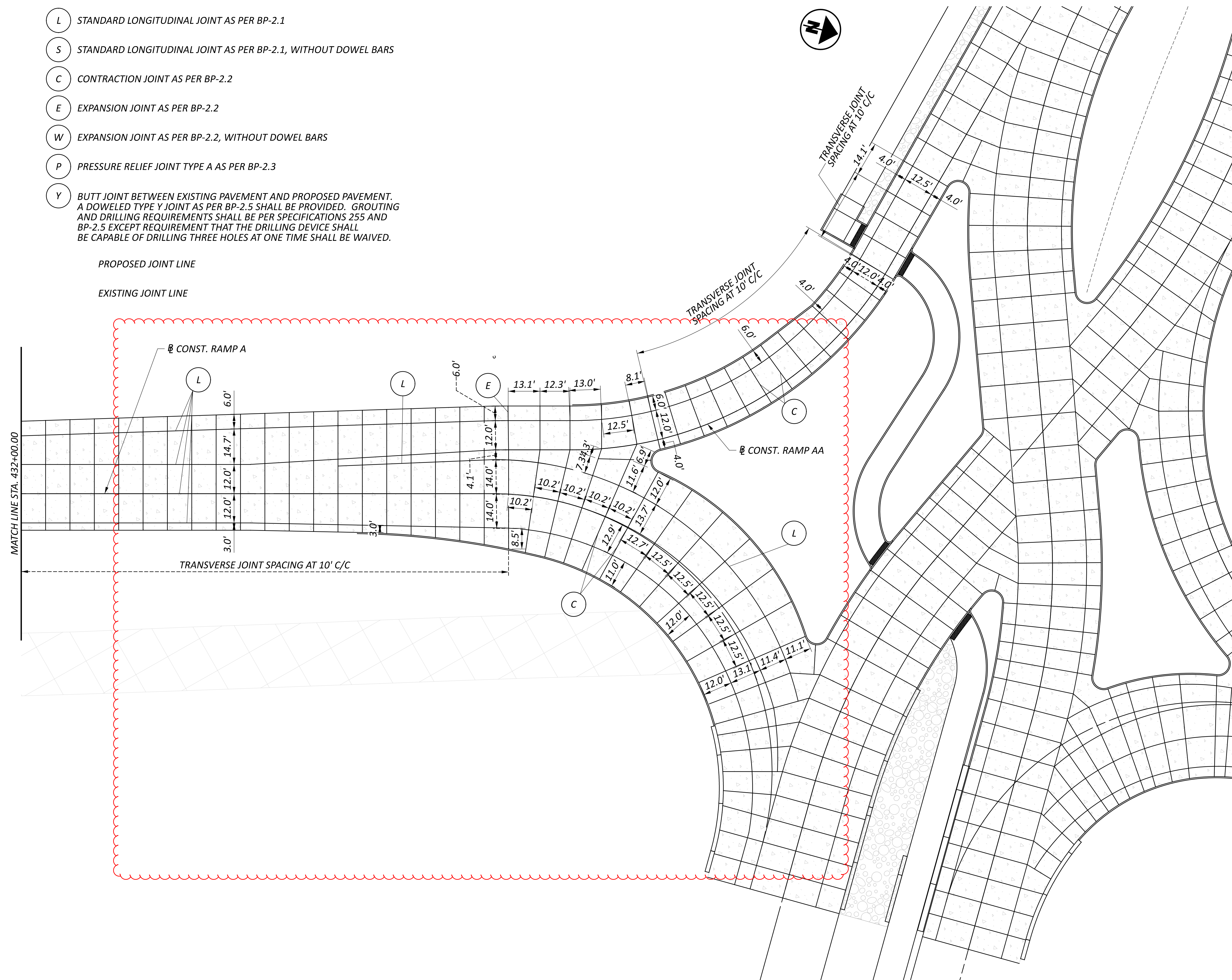
SHEET	TOTAL
380	705



- L STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- S STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- C CONTRACTION JOINT AS PER BP-2.2
- E EXPANSION JOINT AS PER BP-2.2
- W EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
- P PRESSURE RELIEF JOINT TYPE A AS PER BP-2.3
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PROPOSED JOINT LINE

EXISTING JOINT LINE



PAVEMENT JOINT DETAIL  
 RAMP A AND RAMP AA

DESIGN AGENCY



DESIGNER

MJL

REVIEWER

VLE 05/20/22

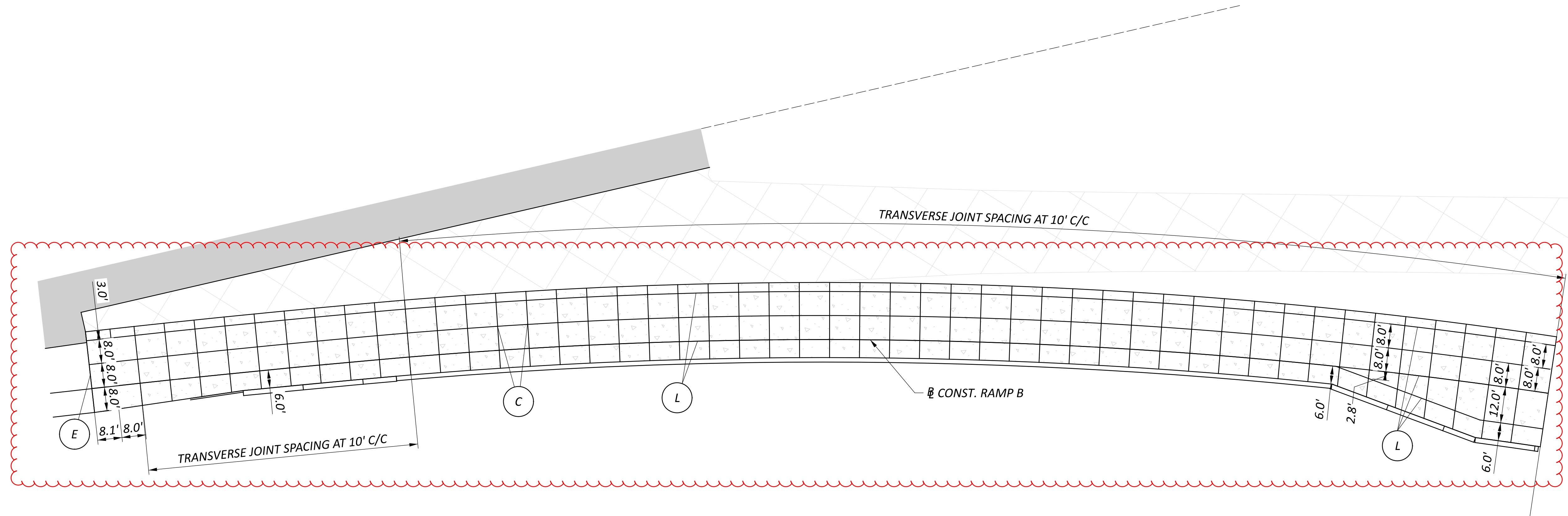
PROJECT ID

102375

SHEET TOTAL

381 | 705

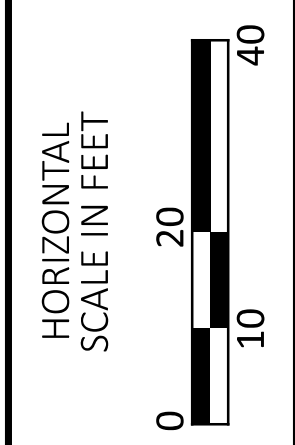
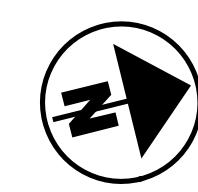




- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
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- (E) EXPANSION JOINT AS PER BP-2.2
- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
- (P) PRESSURE RELIEF JOINT TYPE A AS PER BP-2.3
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PROPOSED JOINT LINE

EXISTING JOINT LINE



PAVEMENT JOINT DETAIL  
RAMP B

DESIGN AGENCY



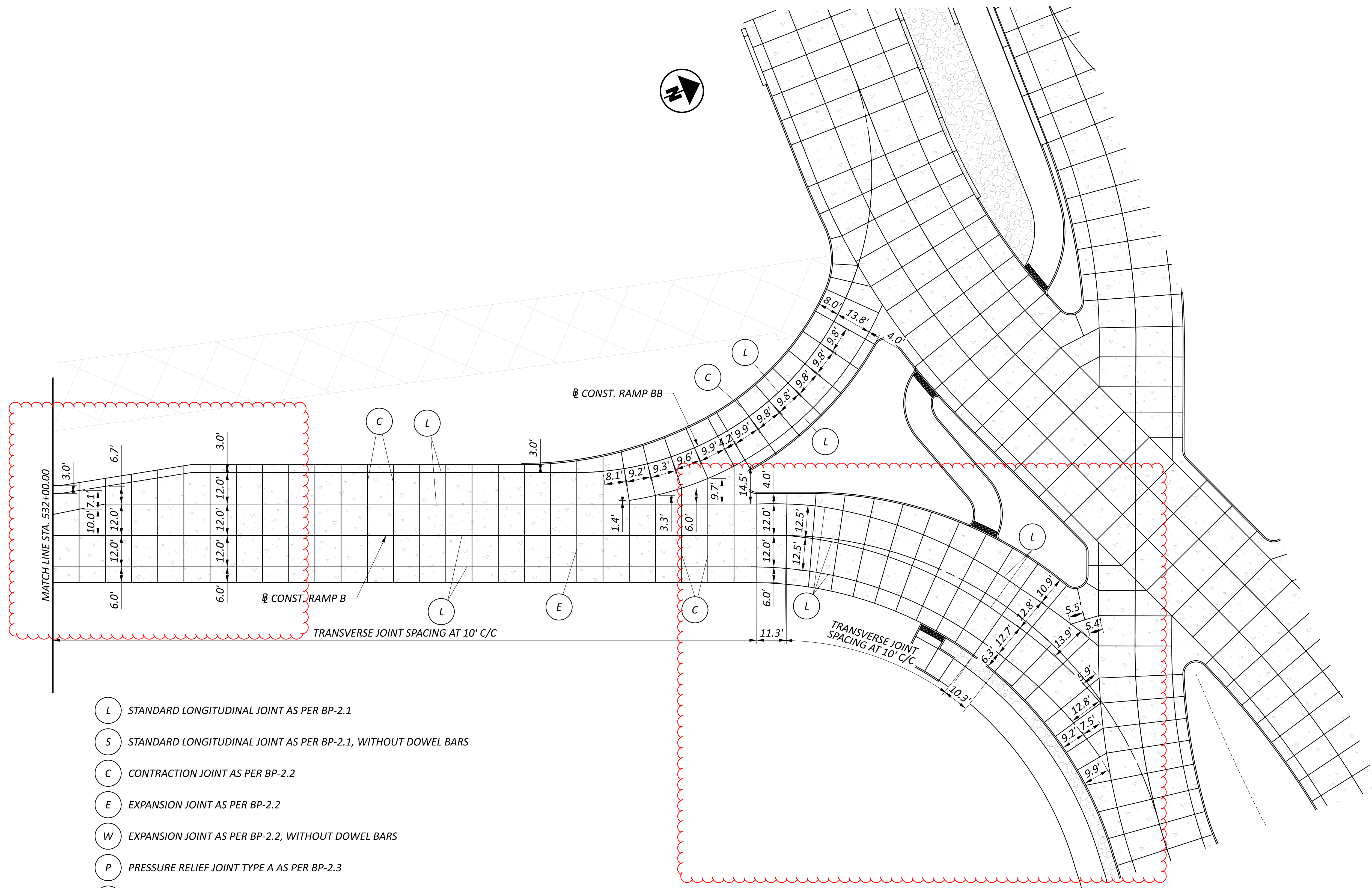
DESIGNER  
MJL

REVIEWER  
VLE 05/20/22

PROJECT ID  
102375

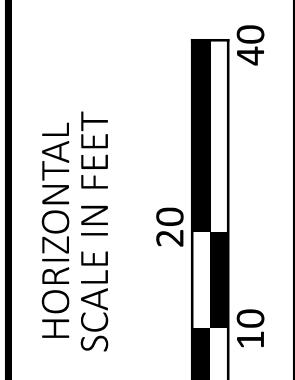
SHEET TOTAL  
382 705





- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- (C) CONTRACTION JOINT AS PER BP-2.2
- (E) EXPANSION JOINT AS PER BP-2.2
- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
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PROPOSED JOINT LINE  
 EXISTING JOINT LINE



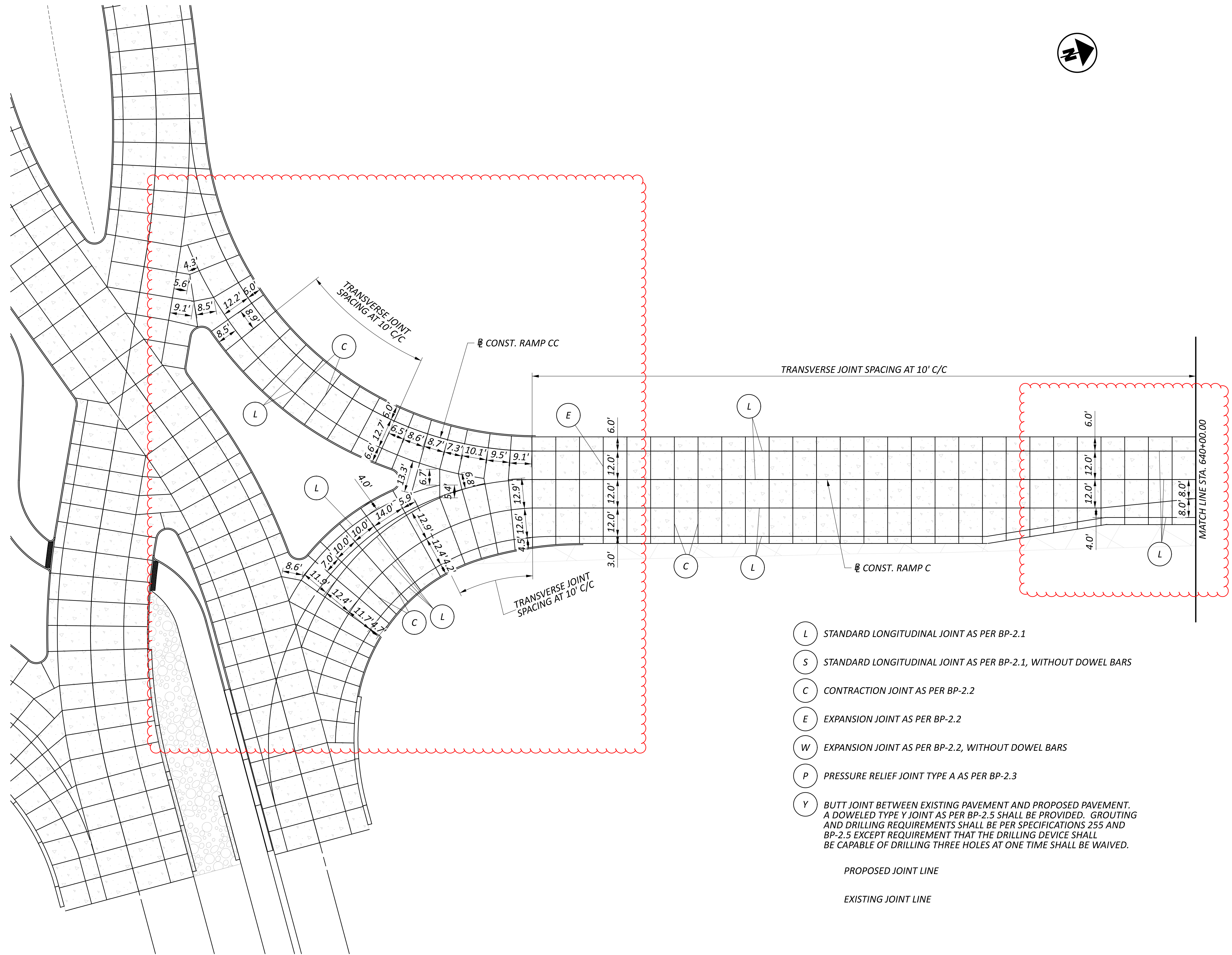
PAVEMENT JOINT DETAIL  
 RAMP B AND RAMP BB

DESIGN AGENCY



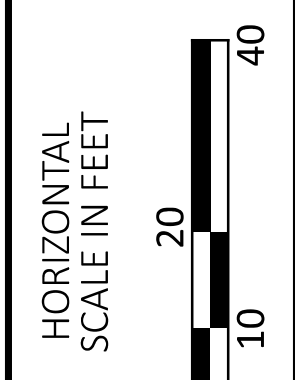
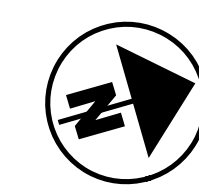
DESIGNER	MJL
REVIEWER	VLE
PROJECT ID	05/20/22
SHEET	102375
TOTAL	383
	705





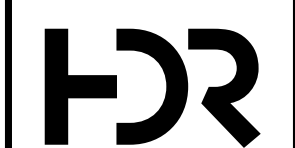
- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- (C) CONTRACTION JOINT AS PER BP-2.2
- (E) EXPANSION JOINT AS PER BP-2.2
- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
- (P) PRESSURE RELIEF JOINT TYPE A AS PER BP-2.3
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PROPOSED JOINT LINE  
 EXISTING JOINT LINE



PAVEMENT JOINT DETAIL  
 RAMP C AND RAMP CC

DESIGN AGENCY

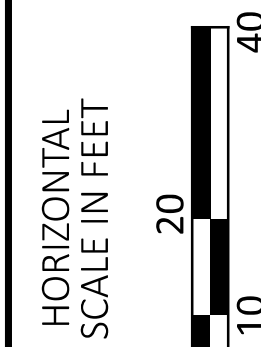
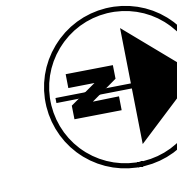
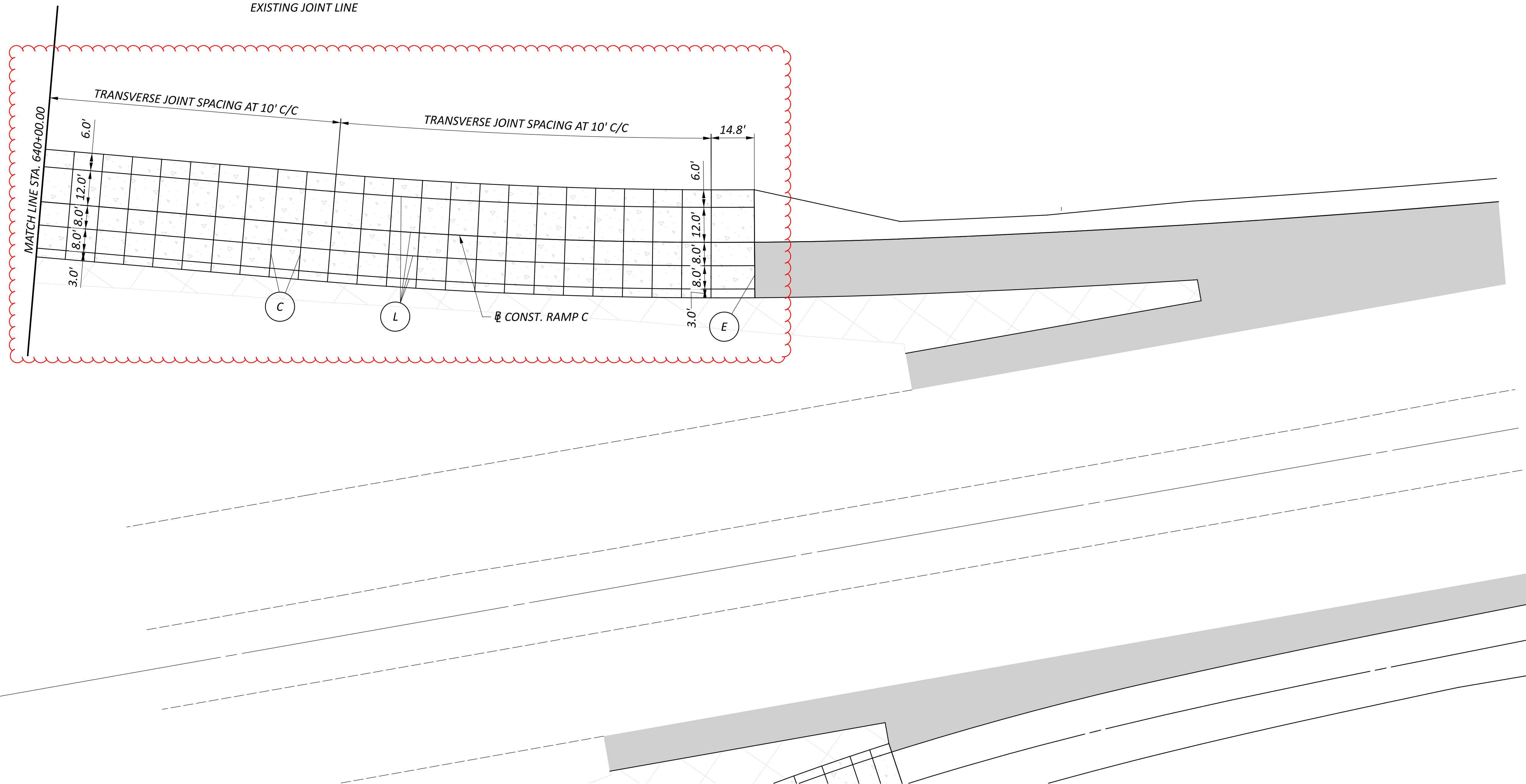


DESIGNER	MJL
REVIEWER	VLE 05/20/22
PROJECT ID	102375
SHEET	TOTAL
384	705



- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- (C) CONTRACTION JOINT AS PER BP-2.2
- (E) EXPANSION JOINT AS PER BP-2.2
- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
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PROPOSED JOINT LINE  
 EXISTING JOINT LINE



PAVEMENT JOINT DETAIL  
 RAMP C

DESIGN AGENCY



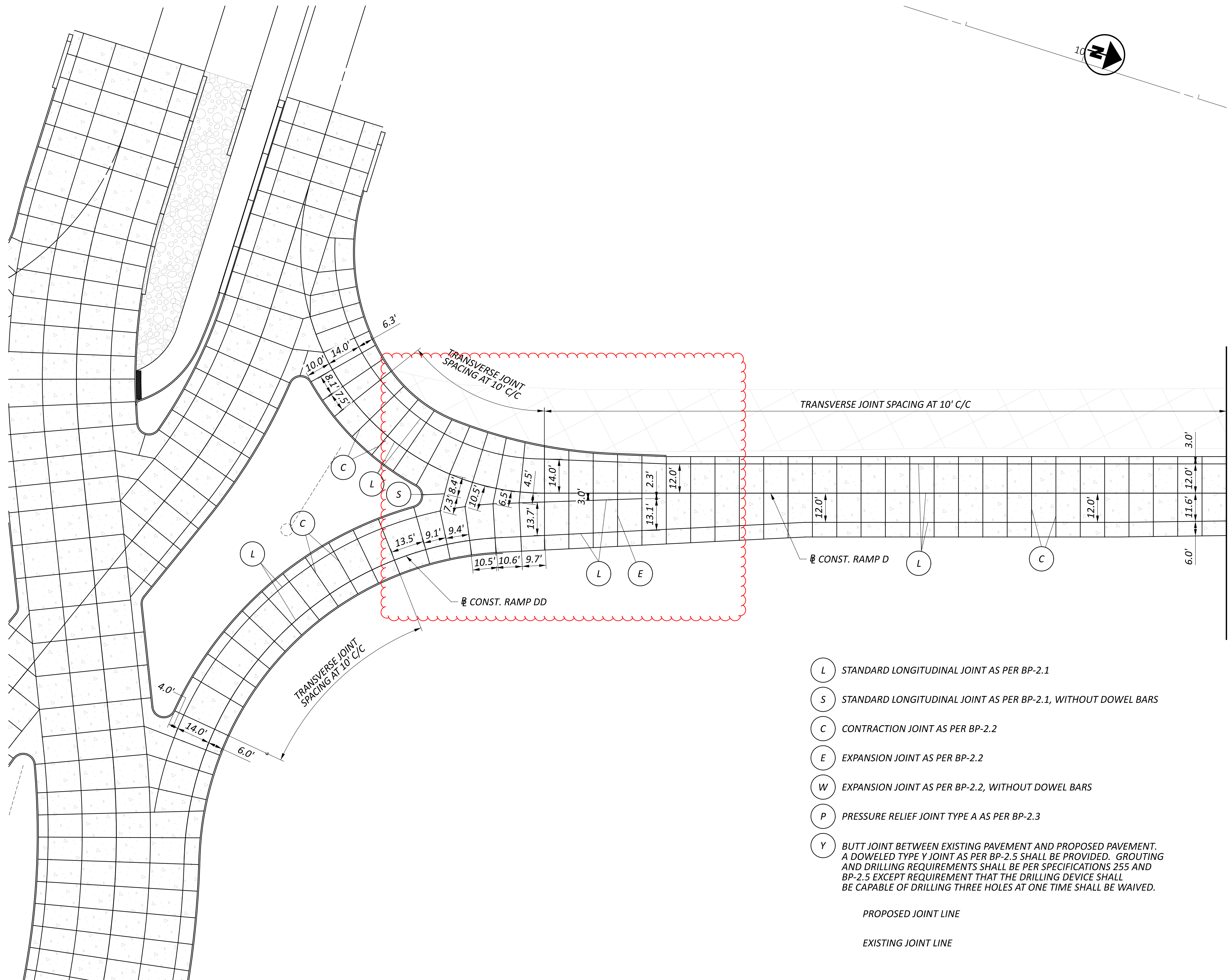
DESIGNER  
 MJL

REVIEWER  
 VLE 05/20/22

PROJECT ID  
 102375

SHEET TOTAL  
 385 | 705





- (L) STANDARD LONGITUDINAL JOINT AS PER BP-2.1
- (S) STANDARD LONGITUDINAL JOINT AS PER BP-2.1, WITHOUT DOWEL BARS
- (C) CONTRACTION JOINT AS PER BP-2.2
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- (W) EXPANSION JOINT AS PER BP-2.2, WITHOUT DOWEL BARS
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PROPOSED JOINT LINE

EXISTING JOINT LINE



PAVEMENT JOINT DETAIL  
 RAMP D AND RAMP DD

DESIGN AGENCY

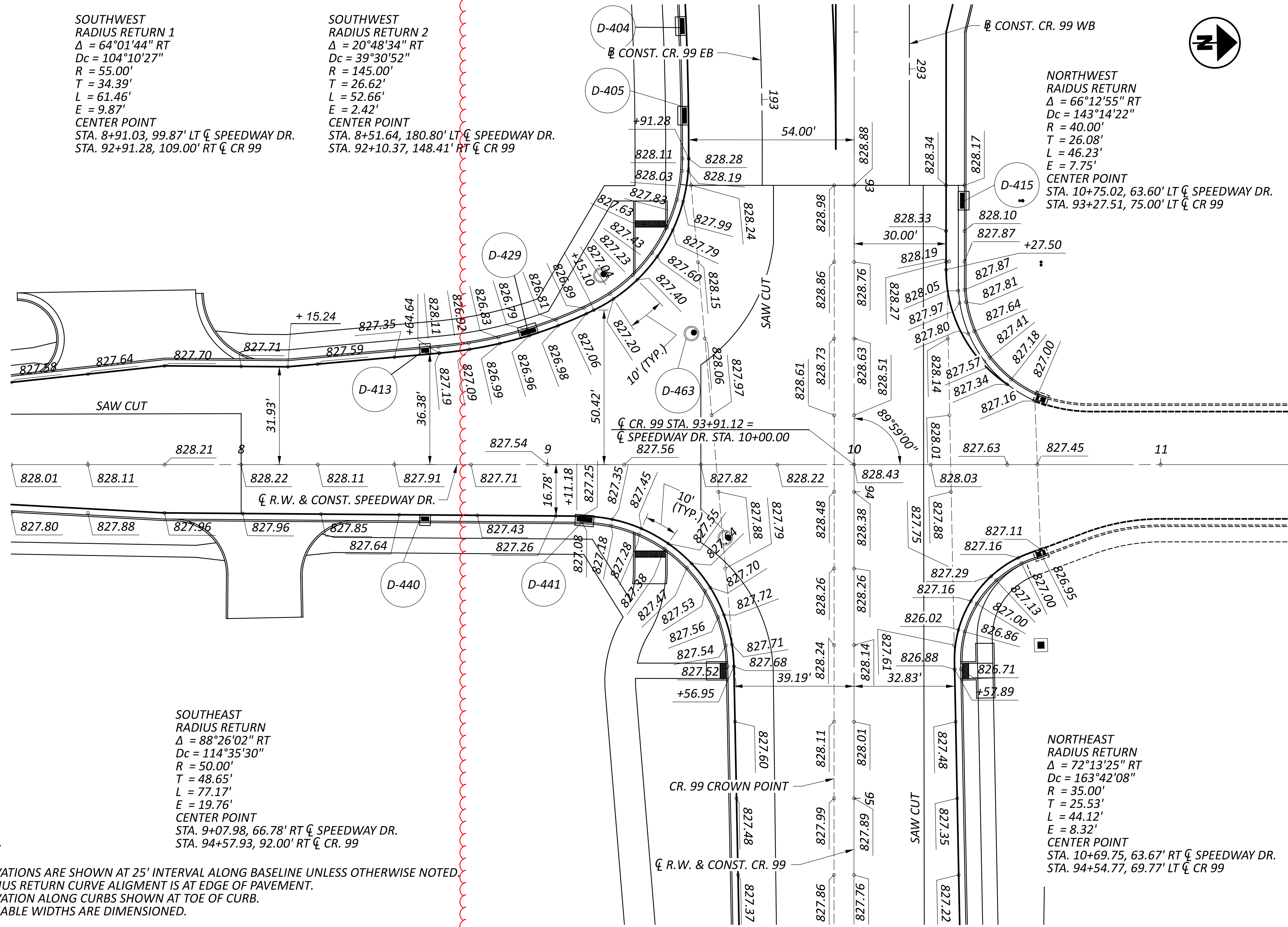


DESIGNER	MJL
REVIEWER	VLE 05/20/22
PROJECT ID	102375
SHEET	TOTAL
386	705



**SOUTHWEST  
 RADIUS RETURN 1**  
 $\Delta = 64^{\circ}01'44''$  RT  
 $Dc = 104^{\circ}10'27''$   
 $R = 55.00'$   
 $T = 34.39'$   
 $L = 61.46'$   
 $E = 9.87'$   
**CENTER POINT**  
 STA. 8+91.03, 99.87' LT  $\zeta$  SPEEDWAY DR.  
 STA. 92+91.28, 109.00' RT  $\zeta$  CR 99

**SOUTHWEST  
 RADIUS RETURN 2**  
 $\Delta = 20^{\circ}48'34''$  RT  
 $Dc = 39^{\circ}30'52''$   
 $R = 145.00'$   
 $T = 26.62'$   
 $L = 52.66'$   
 $E = 2.42'$   
**CENTER POINT**  
 STA. 8+51.64, 180.80' LT  $\zeta$  SPEEDWAY DR.  
 STA. 92+10.37, 148.41' RT  $\zeta$  CR 99



**SOUTHEAST  
 RADIUS RETURN**  
 $\Delta = 88^{\circ}26'02''$  RT  
 $Dc = 114^{\circ}35'30''$   
 $R = 50.00'$   
 $T = 48.65'$   
 $L = 77.17'$   
 $E = 19.76'$   
**CENTER POINT**  
 STA. 9+07.98, 66.78' RT  $\zeta$  SPEEDWAY DR.  
 STA. 94+57.93, 92.00' RT  $\zeta$  CR. 99

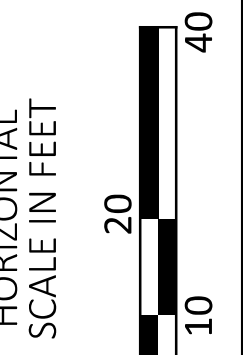
**NORTHWEST  
 RADIUS RETURN**  
 $\Delta = 66^{\circ}12'55''$  RT  
 $Dc = 143^{\circ}14'22''$   
 $R = 40.00'$   
 $T = 26.08'$   
 $L = 46.23'$   
 $E = 7.75'$   
**CENTER POINT**  
 STA. 10+75.02, 63.60' LT  $\zeta$  SPEEDWAY DR.  
 STA. 93+27.51, 75.00' LT  $\zeta$  CR 99

**NORTHEAST  
 RADIUS RETURN**  
 $\Delta = 72^{\circ}13'25''$  RT  
 $Dc = 163^{\circ}42'08''$   
 $R = 35.00'$   
 $T = 25.53'$   
 $L = 44.12'$   
 $E = 8.32'$   
**CENTER POINT**  
 STA. 10+69.75, 63.67' RT  $\zeta$  SPEEDWAY DR.  
 STA. 94+54.77, 69.77' LT  $\zeta$  CR 99

**NOTES:**

1. ELEVATIONS ARE SHOWN AT 25' INTERVAL ALONG BASELINE UNLESS OTHERWISE NOTED.
2. RADIUS RETURN CURVE ALIGNMENT IS AT EDGE OF PAVEMENT.
3. ELEVATION ALONG CURBS SHOWN AT TOE OF CURB.
4. VARIABLE WIDTHS ARE DIMENSIONED.

INLET ID	INLET TYPE	STATION	OFFSET	EL. GRATE
D-404	CB-3	192+75.00	26.00' RT	828.52'
D-405	CB-3	193+05.00	26.00' RT	828.30'
D-413	CB-3A	8+60.00	37.95' LT	827.09'
D-415	CB-3	93+05.00	36.00' LT	828.15'
D-429	CB-3	8+93.50	44.00' LT	826.80'
D-440	CB-3A	8+60.00	18.40' RT	827.41'
D-441	CB-3	9+12.00	18.54' RT	827.12'
D-463	MH-3	93+48.37	53.08' RT	827.93'



**INTERSECTION DETAIL SHEET  
 SPEEDWAY DRIVE**

DESIGN AGENCY



DESIGNER

VLE

REVIEWER

KF 05/20/22

PROJECT ID

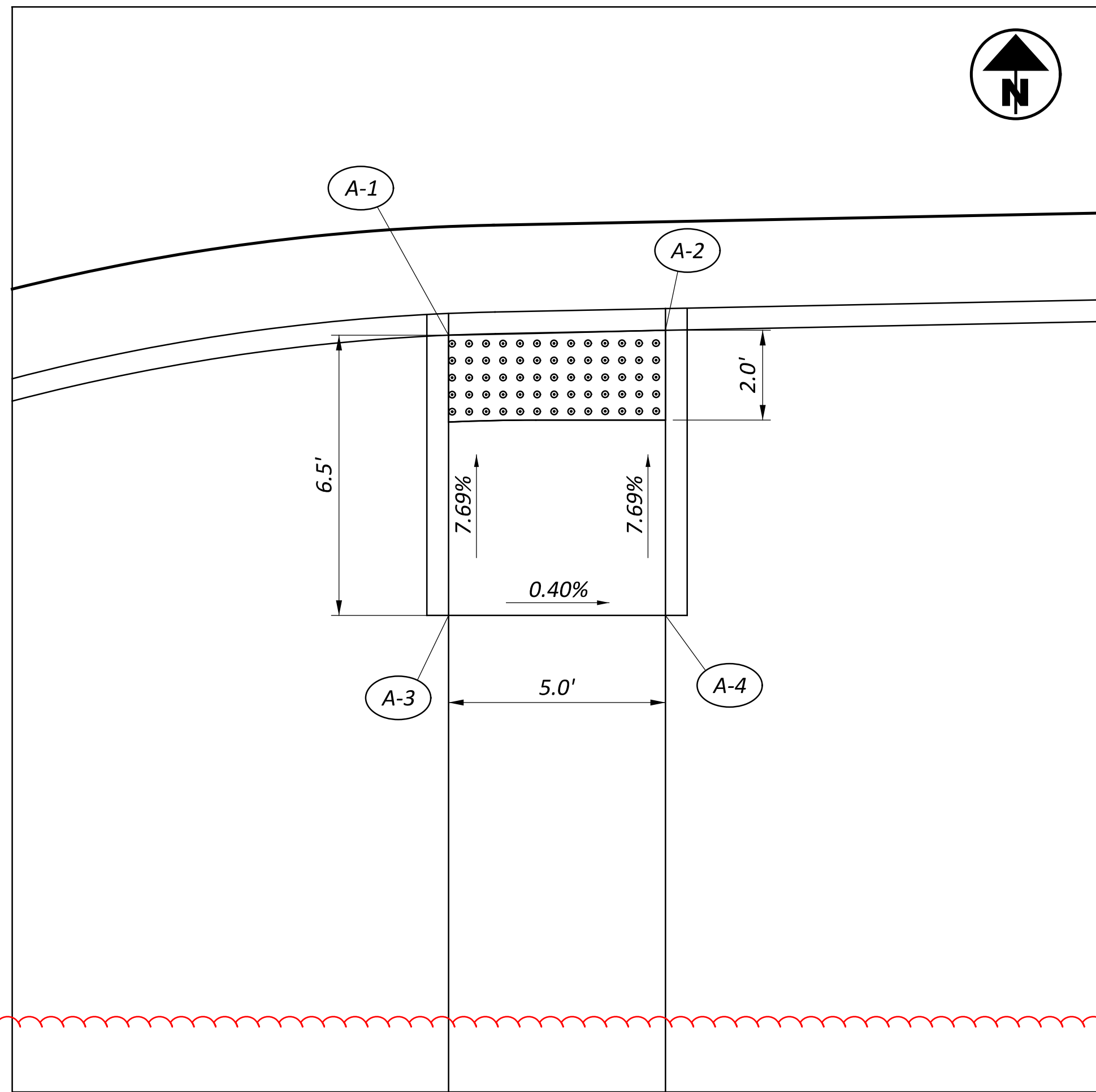
102375

SHEET TOTAL

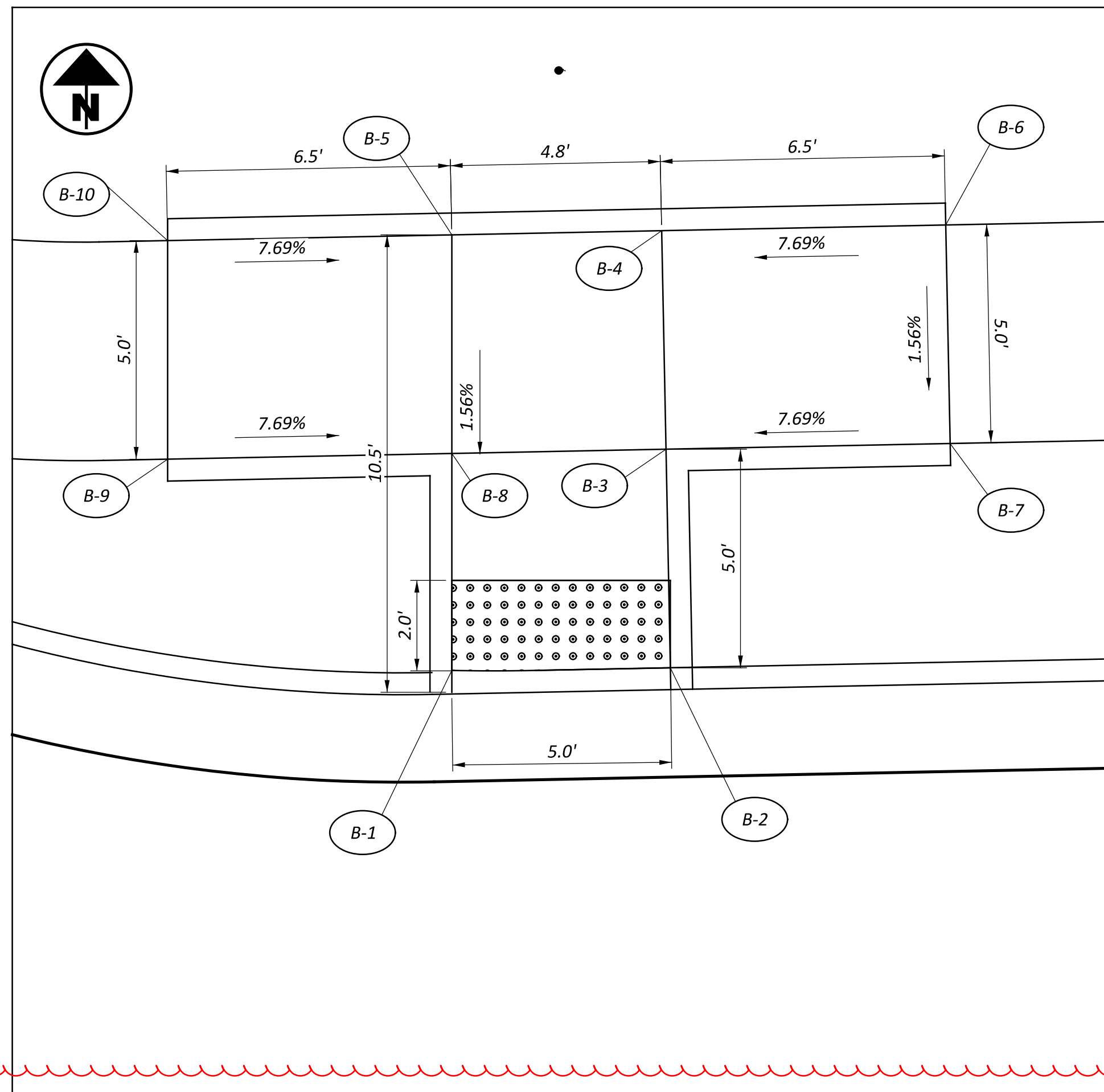
403 | 705



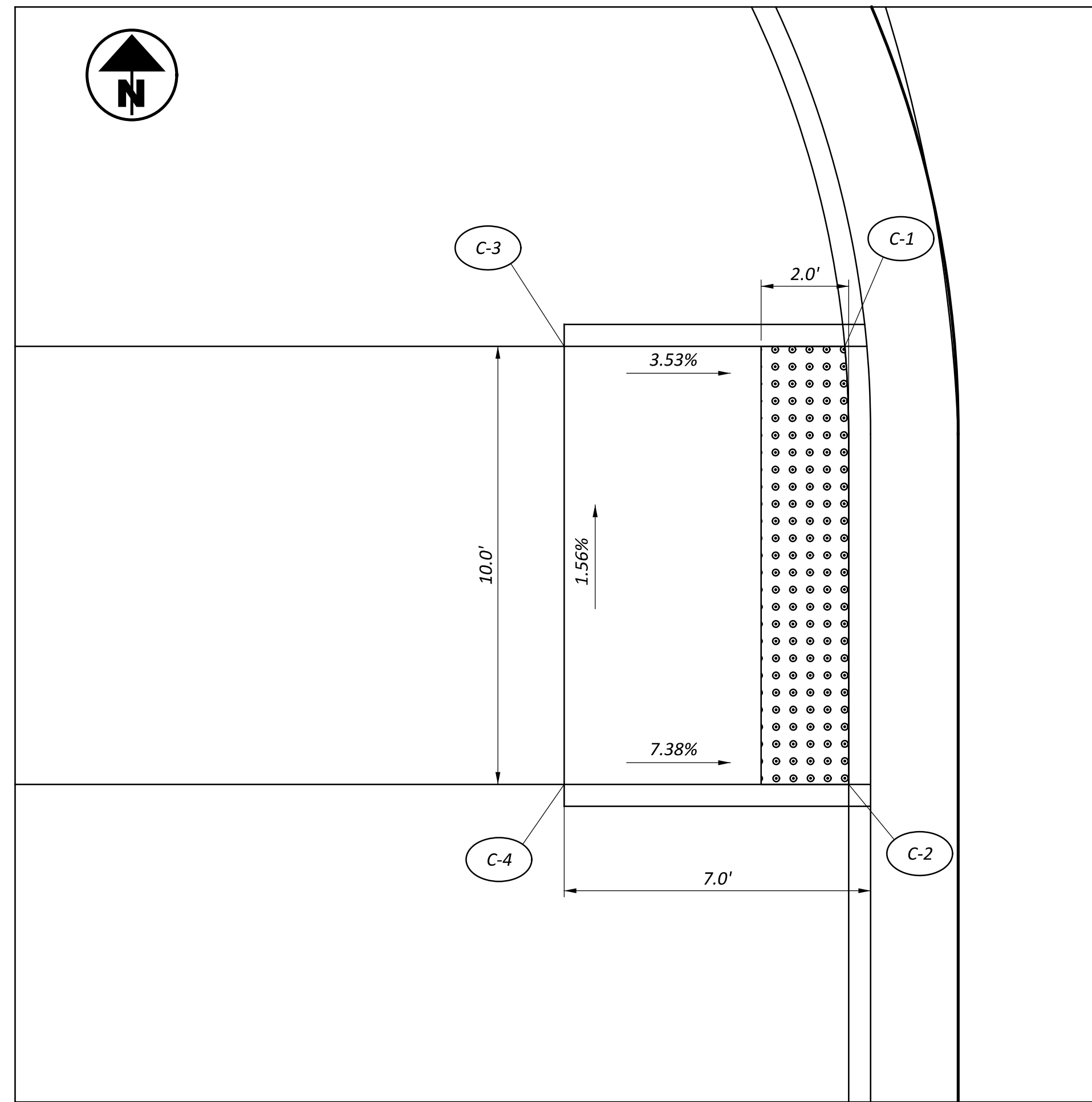
CR. 99 STA. 94+58.41 RT CURB RAMP TYPE A2 AS PER PLAN



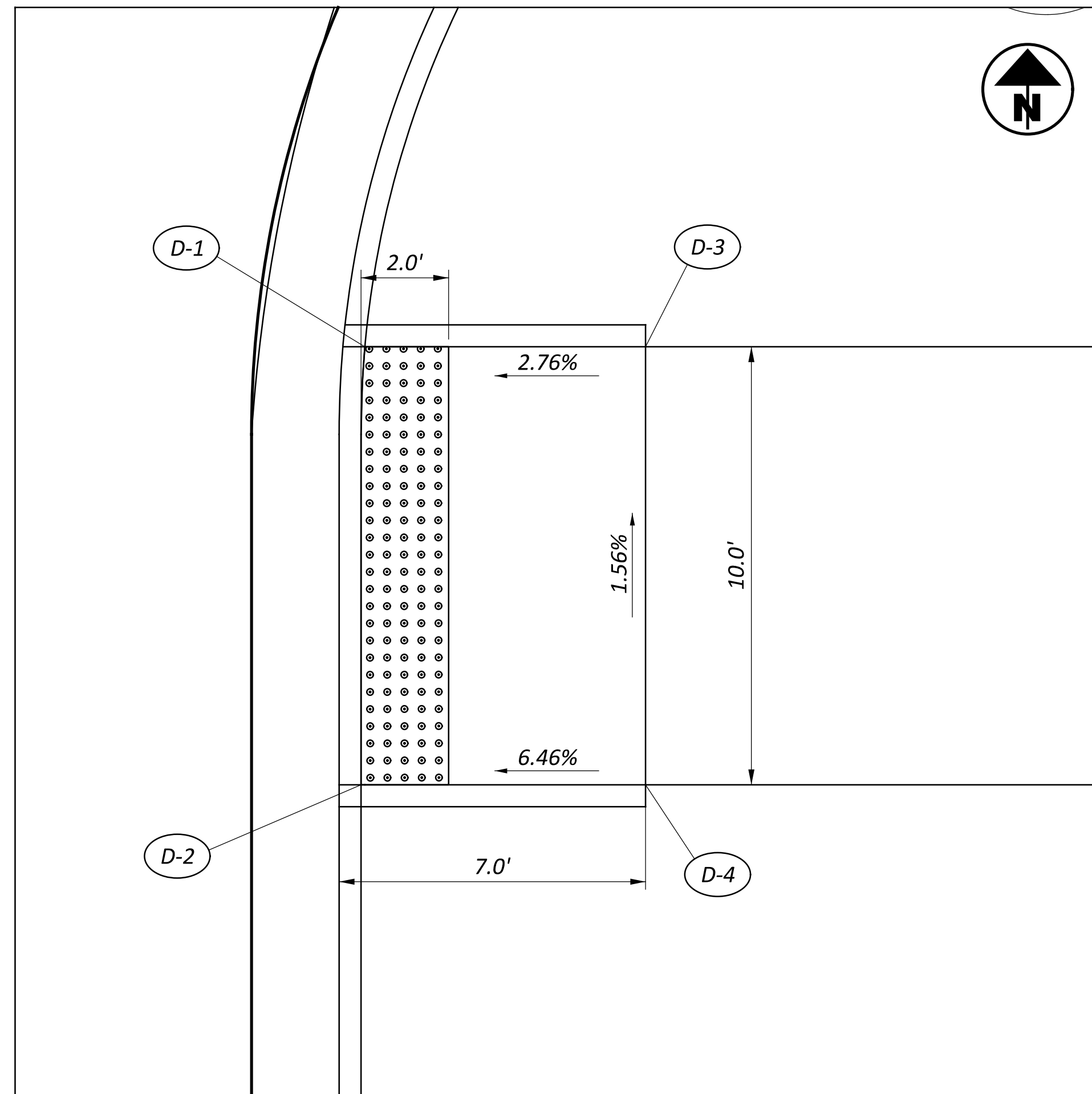
CR. 99 STA. 94+58.41 LT CURB RAMP TYPE C2 AS PER PLAN



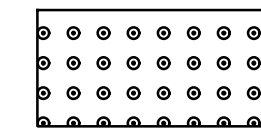
VENTURA DR. STA. 9+35.00 LT CURB RAMP TYPE A2 AS PER PLAN



VENTURA DR. STA. 9+35.00 RT CURB RAMP TYPE A2 AS PER PLAN



POINT	ALIGNMENT	STATION	OFFSET	ELEV.
A1	CR 99	94+55.91	41.73' RT	827.52'
A2	CR 99	94+60.91	41.61' RT	827.50'
A3	CR 99	94+55.91	48.18' RT	828.02'
A4	CR 99	94+60.91	48.18' RT	828.00'
B1	CR 99	94+55.91	35.33' LT	827.41'
B2	CR 99	94+60.91	35.39' LT	827.38'
B3	CR 99	94+60.81	40.39' LT	827.46'
B4	CR 99	94+60.71	45.39' LT	827.54'
B5	CR 99	94+55.91	45.29' LT	827.55'
B6	CR 99	94+67.21	45.52' LT	828.05'
B7	CR 99	94+67.31	40.52' LT	827.97'
B8	CR 99	95+55.91	40.28' LT	827.47'
B9	CR 99	94+49.41	40.16' LT	827.99'
B10	CR 99	94+49.41	45.16' LT	828.07'
C1	CR 99	101+92.77	60.00' RT	823.61'
C2	CR 99	101+92.85	70.00' RT	823.52'
C3	CR 99	101+86.35	60.00' RT	823.84'
C4	CR 99	101+86.35	70.00' RT	824.00'
D1	CR 99	102+24.44	60.00' RT	823.63'



DETECTABLE WARNINGS PER BP 7.1








**HAN-75/CR99 INTERCHANGE REHAB**

MODEL: Sheet PAPER: 34x22 (in.) DATE: 1/30/2024 TIME: 2:46:17 PM USER: CMS  
 p:\v\h\drusea01\HDR\_US\_East\_01\Documents\Ohio\_DOT\DOT-HAN-75\_99\_Interchange\6.0\_CAD\_BIM\6.2\_WFP\01\_Design\102375\400-Engineering\Traffic\Sheets\Traffic Control Sub-Summary Sheet

REF NO.	SHEET NO.	STATION TO STATION				644	644	644	644	644	644	644	644	644	644	642	621	621	807	807	807	807	807	850	850	850
						EDGE LINE, 6", WHITE	EDGE LINE, 6", YELLOW	LANE LINE, 6"	CENTER LINE	CHANNELIZING LINE, 8"	STOP LINE	CROSSWALK LINE, 24"	TRANSVERSE/DIAGONAL LINE	CHEVRON MARKING	LANE ARROW	WRONG WAY ARROW	LANE REDUCTION ARROW	DOTTED LINE, 6"	REMOVAL OF PAVEMENT MARKING	RPM, WHITE/RED	RPM, YELLOW/RED	WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", WHITE	WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6", YELLOW	WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6"	WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 8"	WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6"
					TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	
					MILE	MILE	MILE	MILE	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	MILE	FT	FT	
A-60	518	289+10.00	RT																							
A-61	518	289+10.00	RT																							
CH-13	518	289+58.00	LT	292+38.00	LT				280																	
EW-19	518	189+72.00	RT	193+64.00	RT	0.13																				
A-62	518	289+76.00	LT																							
A-63	518	289+76.00	LT																							
A-64	518	289+76.00	RT																							
A-65	518	289+76.00	RT																							
A-66	518	290+42.00	LT																							
A-67	518	290+42.00	LT																							
A-68	518	290+42.00	RT																							
A-69	518	290+42.00	RT																							
CH-16	518	190+59.00	LT	193+48.00	LT				289																	
CH-17	518	190+59.00	RT	193+48.00	RT				289																	
A-70	518	190+74.00	LT																							
A-71	518	190+74.00	LT																							
A-72	518	190+74.00	RT																							
A-73	518	190+74.00	RT																							
L-7	518	290+91.00	C	293+55.00	C			0.05																		
L-8	518	290+91.00	RT	293+55.00	RT			0.05																		
A-74	518	291+08.00	LT																							
A-75	518	291+08.00	LT																							
A-76	518	291+08.00	RT																							
A-77	518	291+08.00	RT																							
CL-8	518	191+32.00	LT	193+48.00	LT				0.04																	
CL-7	518	291+38.00	RT	293+55.00	RT				0.04																	
A-78	518	191+40.00	LT																							
A-79	518	191+40.00	LT																							
A-80	518	191+40.00	RT																							
A-81	518	191+40.00	RT																							
A-82	518	291+74.00	LT																							
A-83	518	291+74.00	LT																							
A-84	518	291+74.00	RT																							
A-85	518	291+74.00	RT																							
A-86	518	192+06.00	LT																							
A-87	518	192+06.00	LT																							
A-88	518	192+06.00	RT																							
A-89	518	192+06.00	RT																							
A-90	518	192+72.00	LT																							
A-91	518	192+72.00	LT																							
A-92	518	192+72.00	RT																							
A-93	518	192+72.00	RT																							
EW-20	518	292+88.00	LT	93+65.00	LT	0.03																				
A-94	518	193+38.00	LT																							
A-95	518	193+38.00	LT																							
A-96	518	193+38.00	RT																							
A-97	518	193+38.00	RT																							
ST-11	518	193+48.00	C						54																	
EW-21	519	94+03.00	RT	101+94.00	RT	0.15																				
EW-22	519	94+10.00	LT	101+90.00	LT	0.15																				
CW-6	519	94+58.00	C																							
ST-14	519	94+70.00	LT						48																	
L-9	519	94+70.00	RT	101+70.00	RT			0.13																		
L-10	519	94+70.00	LT	101+70.00	LT			0.13																		
L-11	519	94+70.00	LT	101+70.00	LT			0.13																		
CL-11	519	94+70.00	RT	100+70.00	C				0.11																	
CH-21	519	94+70.00	C	97+20.00	C				250																	
A-106	519	94+80.00	RT																							
A-107	519	95+46.00	RT																							
<b>TOTALS SHEET 3</b>																										
					0.46	0.00	0.50	0.20	1108	102	77	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0

**PAVEMENT MARKING SUBSUMMARY**

DESIGN AGENCY  
  
 DESIGNER: CMS  
 REVIEWER: CMS  
 PROJECT ID: CML 11/29/22  
 SHEET: 102375  
 TOTAL: 507 / 705







**HAN-75/CR99 INTERCHANGE REHAB**

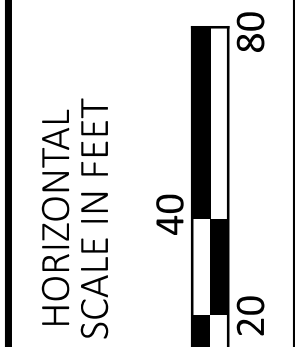
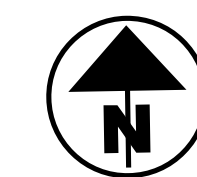
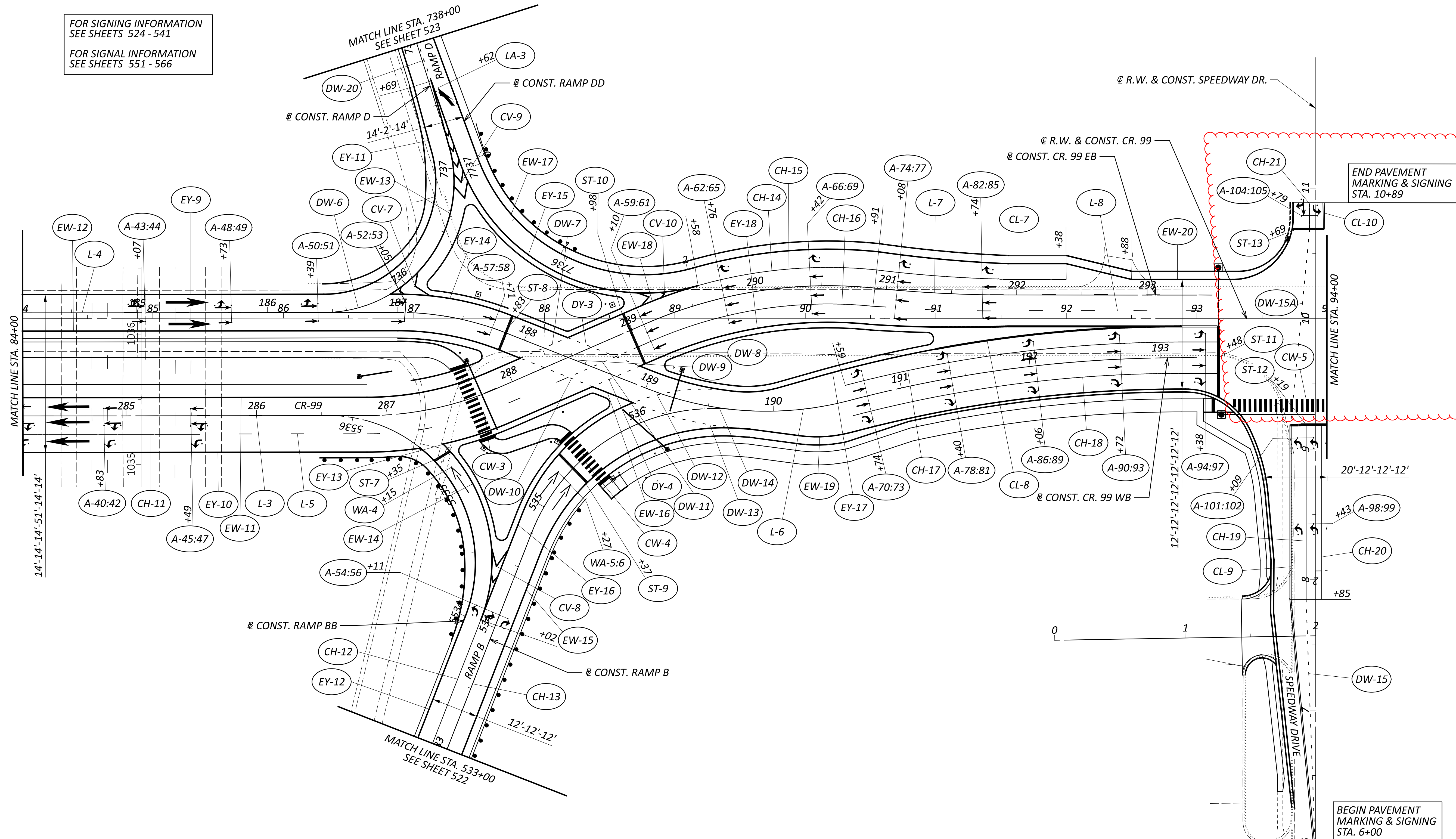
MODEL: 102375\_TPO07 PAPER SIZE: 34x22 (in.) DATE: 1/31/2024 TIME: 10:56:42 AM USER: CMS  
 p:\p\h\druseas01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_Interchange\6.0\_CAD\_BIM\6.2\_WIP\01\_Design\102375\400-Engineering\Traffic\Sheets\ Pavement Markings

**LEGEND**

- |   |  |
|---|--|
| (A) 72-INCH LANE ARROW  | (EW) 6-INCH EDGE LINE, WHITE   |
| (CH) 12-INCH CHANNELIZING LINE, WHITE                                   | (EY) 6-INCH EDGE LINE, YELLOW  |
| (CL) 6-INCH CENTER LINE   | (L) 6-INCH LANE LINE, WHITE  |
| (CV) 24-INCH CHEVRON MARKING, WHITE, @ 45°, W/ SPACING PER SCD TC-72.20 | (LA) LANE REDUCTION ARROW  |
| (CW) CROSSWALK LINE, WHITE, AS PER PLAN                                 | (ST) 24-INCH STOP LINE, WHITE  |
| (DW) 12-INCH DOTTED LINE, WHITE   | (TY) 12-INCH TRANSVERSE LINE, YELLOW, @ 45°. W/ SPACING PER SCD TC-72.20 |
| (DY) 12-INCH DOTTED LINE, YELLOW  | (WA) WRONG WAY ARROW   |
| (R) PAVEMENT MARKING REMOVAL  |  |

FOR SIGNING INFORMATION  
SEE SHEETS 524 - 541

FOR SIGNAL INFORMATION  
SEE SHEETS 551 - 566



**TRAFFIC CONTROL PLAN - PAVEMENT MARKINGS**  
 STA. 84+00 TO STA. 94+00

DESIGN AGENCY	
DESIGNER	CMS
REVIEWER	CML 11/29/22
PROJECT ID	102375
SHEET	518
TOTAL	705

BEGIN PAVEMENT MARKING & SIGNING STA. 6+00

END PAVEMENT MARKING & SIGNING STA. 10+89







**632 COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN**

COVER VEHICULAR SIGNAL HEADS IF ERECTED AT INTERSECTIONS WHERE TRAFFIC IS MAINTAINED BEFORE ENERGIZING THE SIGNALS. USE A STURDY OPAQUE COVERING MATERIAL SPECIFICALLY MADE FOR USE WITH TRAFFIC SIGNALS, AND ENSURE THAT THE COLOR OF THE COVER IS DIFFERENT THAN THE SIGNAL HEAD, TAN OR BEIGE, SO THAT IT IS CLEAR TO DRIVERS THAT HEADS ARE COVERED, NOT DARK. USE A METHOD OF COVERING TO COVER ATTACHMENT AND MATERIALS, INCLUDING BACK-PLATES, AS APPROVED BY THE ENGINEER. COVERS ARE TO BE FREE OF TEXT, PICTURES, OR ANY TYPE OF ADVERTISING. MAINTAIN COVERS, AND REMOVE THEM WHEN DIRECTED BY THE ENGINEER.

**632 SIGNALIZATION, MISC.: CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1, AS PER PLAN**

THE CONTROLLER UNIT FURNISHED SHALL BE AN EAGLE BRAND P44, TS2 CABINET, OR APPROVED EQUAL, WITH A SIEMENS M60 CONTROLLER. THE CONFLICT MONITOR SHALL BE AN EDI BRAND MMU. IN ADDITION TO ITEM 633.06 AND ITEM 733.02, THIS SPECIFICATION SHALL GOVERN WHERE DIFFERENCES OCCUR IN THE ODOT STANDARD CONSTRUCTION AND MATERIAL SPECIFICATION. THE CONTROLLER SHALL BE FURNISHED WITH THE MOST RECENT SOFTWARE AND PROVIDE ALL FEATURES OF THE LATEST MODEL AVAILABLE.

LOCAL CONTROLLER EQUIPMENT THE FOLLOWING SHALL BE FURNISHED:

1. EXTENDED MONITORING
2. MANUAL CONTROL AND PUSHBUTTON
3. SWITCHES MOUNTED ON INSIDE DOOR:
  - A. CONTROLLER: ON/OFF
  - B. STOP TIME: ON/OFF
  - C. SIGNALS: AUTO/FLASH
  - D. COORDINATION: ON/OFF
  - E. DETECTOR TEST SWITCHES
4. SWITCHES ON POLICE DOOR
  - A. SIGNALS: AUTO/FLASH (MUST ALSO STOP TIMING IN CONTROLLER WHEN ACTIVATED)
  - B. AUTOMATIC/MANUAL
  - C. SIGNALS: ON/OFF
5. INTERCONNECT ISOLATION PANEL AND FULL D-CONNECTOR MOUNTED ON LEFT SIDE
6. CONTROLLER OUTPUTS SHALL USE JUMPERS ON THE FRONT OF THE BACK PANEL NOT HARDWIRED ON BACK
7. SLIDE OUT LAP TO SHELF
8. POWER HARNESS FOR TYPE 1 AND TYPE 2 CONTROLLER
9. SURGE SUPPRESSOR IN MODULAR PACKAGING UTILIZING A 12 PIN BEAU CONNECTOR WITH LED FAILURE INDICATORS
10. LED GOOSENECK LIGHT ON INSIDE OF DOOR
11. THE APPLICABLE DATAKEY SHALL BE PROVIDED FOR CONNECTIVITY WITH THE EXISTING RADIO INTERCONNECT SYSTEM
12. ARC FLASH HAZARD WARNING SIGN ON THE OUTSIDE OF THE FRONT DOOR OF THE ENCLOSURE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRIC CODE PARAGRAPH 110.16
13. ALL CABINET EQUIPMENT SHALL BE IP ADDRESSABLE AND ETHERNET READY
14. A CABINET RISER OF 18" SHALL BE SUPPLIED IN ACCORDANCE WITH ODOT SPECIFICATION 733.04. THE CABINET DOOR HINGES SHALL BE MOUNTED ON THE RIGHT SIDE WHEN FACING THE FRONT OF THE CABINET.

THE CONTRACTOR SHALL COIL 10' OF SLACK FOR EACH CABLE TO BE CONNECTED TO THE CONTROLLER. ALL CONNECTIONS SHALL BE MADE BY CITY FORCES. THE CONTRACTOR SHALL COORDINATE SCHEDULING FOR THE CONNECTION WITH THE CITY OF FINDLAY TRAFFIC ENGINEERING OFFICE.

TWO SETS OF CABINET WIRING DIAGRAMS, SERVICE MANUALS, PROGRAMMING AND MAINTENANCE INSTRUCTIONS SHALL BE FURNISHED FOR EACH CABINET AND EQUIPMENT ITEM. THE CABINET WIRING DIAGRAMS SHALL BE SUPPLIED IN A CLEAR PLASTIC POUCH FASTENED TO THE INSIDE OF THE CONTROLLER CABINET.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE FOR EACH, IN PLACE. ALL CONNECTIONS MADE AND WIRING COMPLETED, TESTED AND ACCEPTED.

**632 SIGNAL SUPPORT, (BY TYPE), AS PER PLAN  
632 COMBINATION SIGNAL SUPPORT, TYPE TC-81.22 (WITH LIGHT POLE EXTENSION), AS PER PLAN**

IN ADDITION TO PROVISIONS OF THE ODOT C&MS, FURNISH AND INSTALL SIGNAL POLES AS SPECIFIED IN THE PLANS.

THE SIGNAL SUPPORT DESIGNER SHALL PROVIDE DRAWINGS OF A SIGNAL SUPPORT WITH STRUCTURAL ASPECTS OF THE DESIGN AND MATERIALS IN COMPLIANCE WITH THE AASHTO LRFDLTS-1.

SUBMIT, TO THE ENGINEER PRIOR TO INCORPORATION: TWO COPIES OF THE SIGNAL SUPPORT DRAWINGS AND SHOP DRAWINGS, WHICH IDENTIFY AND DESCRIBE EACH MANUFACTURED SIGNAL SUPPORT AND SIGNAL SUPPORT ITEM WHICH IS BEING INCORPORATED INTO THE CONSTRUCTION. THE SIGNAL SUPPORT DRAWINGS AND SHOP DRAWINGS SHALL EACH BE REVIEWED, SEALED, STAMPED, AND DATED BY TWO OHIO REGISTERED PROFESSIONAL ENGINEERS.

ALL NEW SIGNAL SUPPORT ITEMS ALONG CR-99 IN THE CITY OF FINDLAY SHALL BE PAINTED OR POWDER COATED PER C&MS SPECIFICATION 916. THE PAINTING SHALL BE A FOUR-PART PROCESS CONSISTING OF A TWO-PART SURFACE PREPARATION FOLLOWED BY A TWO-COAT PAINT SYSTEM.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO COMPLY WITH POLLUTION LAWS, RULES OR REGULATIONS OF FEDERAL, STATE OR LOCAL AGENCIES. THE MATERIALS AND WORK SPECIFIED CAN BE HAZARDOUS TO THE HEALTH OF THE APPLICATOR IF THE MANUFACTURER'S INSTRUCTIONS ARE NOT FOLLOWED. THE CONTRACTOR SHALL FOLLOW THE DATA SHEET AND THE LABEL ON THE PAINT CONTAINERS. THESE PRECAUTIONS SHALL INCLUDE THE USE OF RESPIRATORS AND EYE AND SKIN PROTECTION AS SPECIFIED. THE CONTRACTOR SHALL ALSO INSURE THAT HIS OPERATIONS AND LOCATIONS WILL NOT ENDANGER OR ADVERSELY AFFECT THE PUBLIC IN GENERAL. THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY CLEANING OR COATING OPERATIONS SO THAT INSPECTION SERVICES CAN BE PROVIDED.

WORK INCLUDED:

1. PAINTING SIGNAL SUPPORTS ALONG CR-99 IN THE CITY OF FINDLAY.

SUBMITTALS:

1. COLORS AND FINISHES: SUBMIT 8-1/2" X 11" PAPER SAMPLES MATCHING EACH COLOR CHIP IN SCHEDULE. DO NOT ORDER PAINT MATERIAL OR APPLICATION ON THIS PROJECT UNTIL COMPLETE APPROVAL OF COLOR SUBMISSION IS OBTAINED FROM THE LANDSCAPE ARCHITECT/ENGINEER.
2. SUBMIT PRODUCT DATA.

DELIVERY AND STORAGE:

1. DELIVER ALL MATERIALS TO THE JOB SITE IN ORIGINAL, NEW AND UNOPENED PACKAGES AND CONTAINERS BEARING MANUFACTURER'S NAME AND LABEL AND APPLICATION INSTRUCTIONS THEREON.
2. PROVIDE LABELS ON EACH CONTAINER WITH THE FOLLOWING INFORMATION:

- A. NAME OR TITLE OF MATERIAL.
- B. FEDERAL SPECIFICATION NUMBER, IF APPLICABLE.
- C. MANUFACTURER'S STOCK NUMBER.
- D. MANUFACTURER'S NAME.
- E. THINNING INSTRUCTIONS.
- F. APPLICATION INSTRUCTIONS.

3. STORE MATERIAL IN AN APPROVED LOCATION. KEEP RAGS AND WASTE IN METAL CONTAINERS AND REMOVE FROM THE PREMISES AT END OF EACH WORK DAY. TAKE ALL PRECAUTIONS NECESSARY FOR PREVENTION OF FIRE.

PRODUCTS:

1. PAINTS FOR METAL SURFACES - CARBOLINE COATINGS
  - A. PRIMER FOR STEEL AND GALVANIZED STEEL SHALL BE CARBOLINE CARBOMASTIC 15 EPOXY MASTIC. COLOR: PRIMER RED (M500).
  - B. MID AND FINISH COAT FOR BARE STEEL AND GALVANIZED STEEL SHALL BE CARBOLINE CARBOTHANE 134 HG. COLOR FEDERAL BLACK (17038).

EXECUTION:

1. PREPARATION
  - A. SURFACES SHALL BE CLEAN AND DRY. EMPLOY ADEQUATE METHODS TO REMOVE DIRT, DUST, OIL, RUST, AND ALL OTHER CONTAMINANTS THAT COULD INTERFERE WITH ADHESION OF THE COATING IN ACCORDANCE WITH SSPC-SP 3.

**632 SIGNAL SUPPORT, (BY TYPE), AS PER PLAN, CONT.  
632 COMBINATION SIGNAL SUPPORT, TYPE TC-81.22 (WITH LIGHT POLE EXTENSION), AS PER PLAN, CONT.**

- B. CLEAN AND LIGHTLY ABRABE PREVIOUSLY PAINTED SURFACES TO ROUGHEN AND DEGLOSS THE SURFACE, REMOVE STRATIFIED RUST, WELD SLAG, AND MILL SCALE USING ROTARY, IMPACT, OR POWER ABRADING TOOLS. EXISTING COATING MUST ATTAIN A MINIMUM 3A RATING IN ACCORDANCE WITH ASTM ADHESION TEST.

2. PRIMER COAT

- A. PRIMER MAY BE THINNED UP TO 32 OZ/GAL WITH CARBOLINE THINNER 10 OR THINNER 230 (IF APPLYING TO A HOT SUBSTRATE, UP TO 200 DEGREES F) OR THINNER 72 FOR HOT OR WINDY CONDITIONS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THINNING.
- B. SPOT PRIME, BY BRUSHING OR ROLLING, ANY BARE OR RUSTED METAL, AND THEN FULL PRIME, BY BRUSHING OR ROLLING, ALL SURFACES WITH ONE (1) COAT, 3-5 MILS, PRIMER AS RECOMMENDED BY MANUFACTURER. SURFACE SHALL BE FIELD APPLIED PER MANUFACTURER'S RECOMMENDATION.

3. MID COAT AND FINISH COAT:

- A. MID COAT AND FINISH COAT MAY BE THINNED UP TO 25 OZ/GAL WITH CARBOLINE THINNER 25, 214, OR 215. FOR APPLICATION DURING HOT, WINDY, AND/OR HUMID CONDITIONS, SLOWER EVAPORATING SOLVENTS SUCH AS THINNER 214 AND THINNER 215 MAY BE RECOMMENDED. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THINNING.
- B. FIELD APPLY MID COAT BY BRUSHING OR ROLLING ONE (1) COAT. 2-3 MILS, MID COAT AS SPECIFIED.
- C. FIELD APPLY FINISH COAT BY BRUSHING OR ROLLING ONE (1) COAT. 2-3 MILS, FINISH COAT AS SPECIFIED.

4. APPLICATION:

- A. WHEN BRUSHING, FLOW ON A LIBERAL COAT WITH MINIMUM BRUSHING.
- B. APPLY ADDITIONAL COATS WHEN UNDERCOATS, PRIMER OR OTHER CONDITIONS SHOW THROUGH THE FINAL COAT OF PAINT UNTIL THE PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE. GIVE SPECIAL ATTENTION TO ENSURE THAT SURFACES SUCH AS EDGES, CORNERS, CREVICES, MORTAR JOINTS, WELDS AND EXPOSED FASTENERS RECEIVE A DRY FILM THICKNESS EQUAL TO THAT ON FLAT SURFACES.
- C. SAND LIGHTLY BETWEEN COATS.
- D. APPLY FIRST COAT MATERIALS TO SURFACES THAT HAVE BEEN CLEANED, PRE-TREATED TO OTHERWISE PREPARED FOR PAINTING AS SOON AS PRACTICABLE AND BEFORE SURFACE DETERIORATION.
- E. ALLOW SUFFICIENT TIME BETWEEN SUCCESSIVE COATS TO PERMIT PROPER DRYING. DO NOT RECOAT UNTIL PAINT HAS DRIED TO WHERE IT FEELS FIRM, DOES NOT DEFORM OR FEEL STICKY UNDER MODERATE THUMB PRESSURE. RECOAT WHEN THE NEXT COAT DOES NOT CAUSE LIFTING OR LOSS OF ADHESION OF UNDERCOAT.

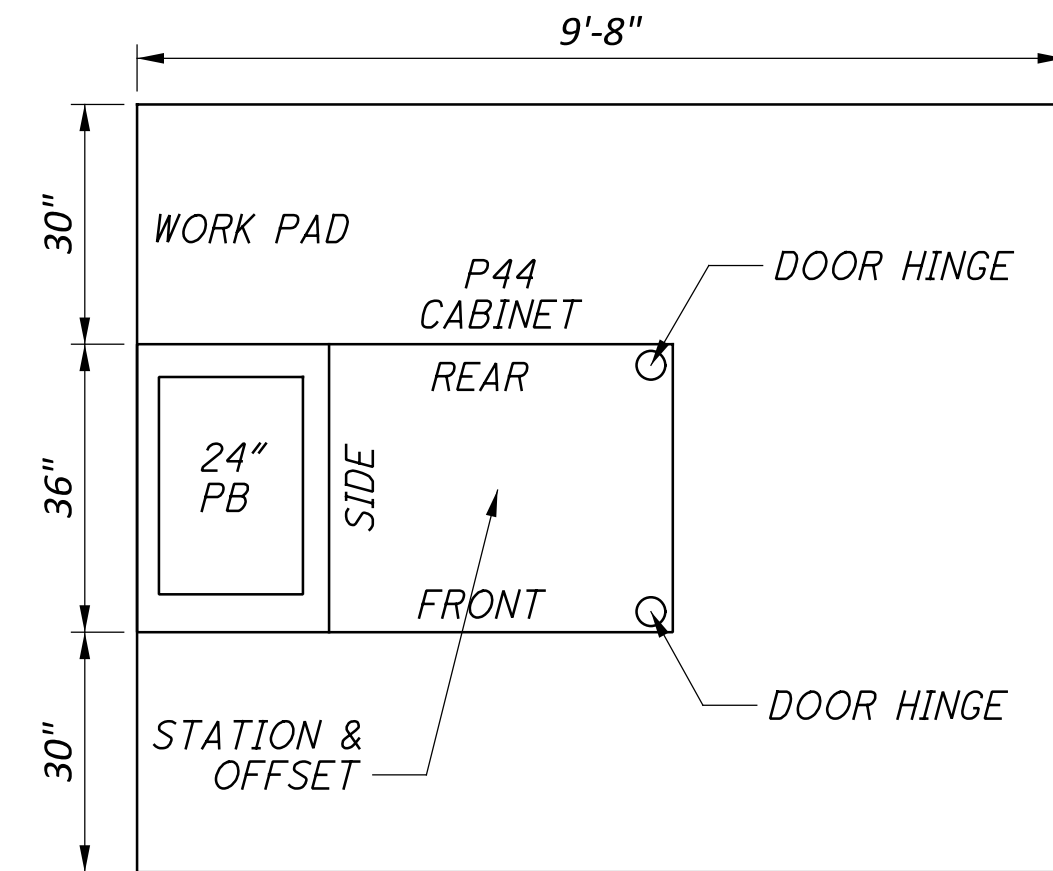
5. CLEAN UP AND PROTECTION

- A. DURING PROGRESS OF WORK, REMOVE FROM SITE DISCARDED PAINT MATERIALS, RUBBISH, CANS AND RAGS AT END OF EACH WORK DAY.
- B. CONTRACTOR SHALL TAKE SPECIAL CARE NOT TO DAMAGE PAINTED SURFACES IN TRANSIT, DURING INSTALLATIONS OR DURING SUBSEQUENT CONSTRUCTION. ANY SUCH DAMAGE THAT OCCURS SHALL BE TOUCHED UP.
- C. WHEN FIELD APPLYING PAINT, CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT PAINT IS NOT APPLIED TO ADJACENT OR NEARBY SURFACES THAT ARE NOT INTENDED TO BE PAINTED. CONTRACTOR SHALL COMPLETELY REMOVE ALL PAINT THAT IS INADVERTENTLY APPLIED TO ADJACENT OR NEARBY SURFACES WITHOUT DAMAGING THOSE SURFACES.
- D. CONTRACTOR SHALL PROTECT NEWLY PAINTED SURFACES FROM VANDALISM DURING DRYING TIME.

PAYMENT FOR ITEM 632 "SIGNAL SUPPORT, (BY TYPE), AS PER PLAN" AND "COMBINATION SIGNAL SUPPORT, TYPE TC-81.22 (WITH LIGHT POLE EXTENSION), AS PER PLAN" SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH COMPLETE AND IN PLACE, AND SHALL INCLUDE ALL SIGNAL SUPPORT DESIGN, LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

**633 CONTROLLER WORKPAD, AS PER PLAN**

THE CONTROLLER WORKPAD SHALL BE CONSTRUCTED TO ACCOMMODATE THE TS-2 CABINET MODEL P44 PER THE DETAIL BELOW. CONDUIT AND WIRING SHALL BE INSTALLED THROUGH THE CABINET RISERS. EACH CABINET SHALL HAVE AN 18" RISER.



CABINET & WORK PAD DETAIL

**633 UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF C&MS 633 AND 733, POLE ATTACHMENT HARDWARE WILL BE INCLUDED FOR POLE-MOUNTED CABINETS, AND A CABINET RISER (8-INCH MINIMUM) AND ANCHOR BOLTS WILL BE PROVIDED FOR BASE-MOUNTED CABINETS. BEFORE PERFORMING THE WORK, THE CONTRACTOR, THE DISTRICT TRAFFIC ENGINEER AND THE PROJECT ENGINEER WILL PERFORM A SITE INSPECTION TO ESTABLISH THE LOCATION OF THE UPS CABINET AND FOUNDATION.

THE UPS CABINET SHALL INCLUDE A GENERATOR POWER PANEL WITH A HEAVY-DUTY POWER RELAY VERSUS THE LINE VOLTAGE GENERATOR SWITCH. THE GENERATOR INLET SHALL BE A RECESSED PANEL WITH A DOOR THAT IS FLUSH WITH THE EXTERNAL SIDE OF THE UPS CABINET. IT SHALL INCLUDE A RECESSED PLUG, AUTOMATIC TRANSFER SWITCH AND A DOOR THAT SECURELY CLOSSES OVER THE POWER CORD.

THE CABINET SHALL HAVE A DOOR STOP MECHANISM AND THERMOSTATICALLY CONTROLLED FAN.

THE CABINET SHALL INCLUDE A BATTERY BALANCING DEVICE THAT REGULATES THE BATTERIES AND OPTIMIZES PERFORMANCE.

AFTER FOUR (4) HOURS OF BATTERY RUNTIME, THE SYSTEM SHALL BE PROGRAMMED TO SWITCH THE INTERSECTION FROM FULL OPERATION TO CONTROLLER AUTOMATIC FLASH OPERATION THROUGH THE MONITOR. THE CONTROLLER SHALL BE PROGRAMMED SO THAT FLASH OPERATION SHALL BEGIN ONCE THE INTERSECTION RUNS MINOR STREET GREEN (TYP. PH. 4 & 8), ALL-RED CLEARANCE, AND THEN FLASH OPERATION.

THE UPS OUTPUT NOTIFICATIONS FOR ON BATTERY, BATTERY 2-HOUR TIMER, AND LOW BATTERY SHALL BE WIRED INTO THE TRAFFIC SIGNAL CABINET BACK PANEL OR THROUGH THE CONTROLLER WITH A C11 TO PROVIDE SPECIAL STATUS ALARMS FOR EACH OUTPUT INTO THE SIGNAL CONTROLLER.

THIS ITEM SHALL INCLUDE A RED LED STATUS INDICATOR LAMP TO ALLOW MAINTENANCE PERSONNEL AND LAW ENFORCEMENT TO QUICKLY ASSESS WHETHER A TRAFFIC SIGNAL CABINET IS BEING POWERED BY A UPS. THE LED HOUSING SHALL BE NEMA 4X, IP65 OR IP66, RATED FOR OUTDOOR USE AND BE TAMPER/SHATTER RESISTANT. IT SHALL BE A DOMED ENCLOSURE CONTAINING A RED LENS WITH LED THAT IS VISIBLE FROM 100 FOOT MINIMUM. THE ENCLOSURE AND LED MODULE SHOULD BE PLACED ON THE SIDE OF THE UPS CABINET FACING TOWARDS THE MAINLINE ROADWAY AND SEALED FROM WATER INTRUSION. IT SHOULD BE WIRED USING MINIMUM 20GA STRANDED, INSULATED HOOKUP WIRE TO THE STATUS RELAY OUTPUTS OF THE UPS. THE WIRES SHALL BE TERMINATED BY LUGS AT THE DISPLAY END AND PERMANENTLY LABELED "BACKUP POWER STATUS DISPLAY," WITH WIRE POLARITY INDICATED. THE RED LED SHALL ONLY ILLUMINATE TO INDICATE THE CABINET IS OPERATING UNDER UPS BACKUP POWER (THE "BACKUP" OPERATING CONDITION). THIS ITEM INCLUDES PROGRAMMING THE UPS STATUS RELAY OUTPUTS TO PRODUCE THE LAMP STATUS DISPLAYS. THESE STATUS DISPLAYS WILL BE SOLID 100% DUTY CYCLE (NOT FLASHING) DISPLAYS. THE OPERATING VOLTAGE OF THE LED LAMP SHALL BE 120V AC UNLESS OTHERWISE INDICATED.

DESIGN AGENCY

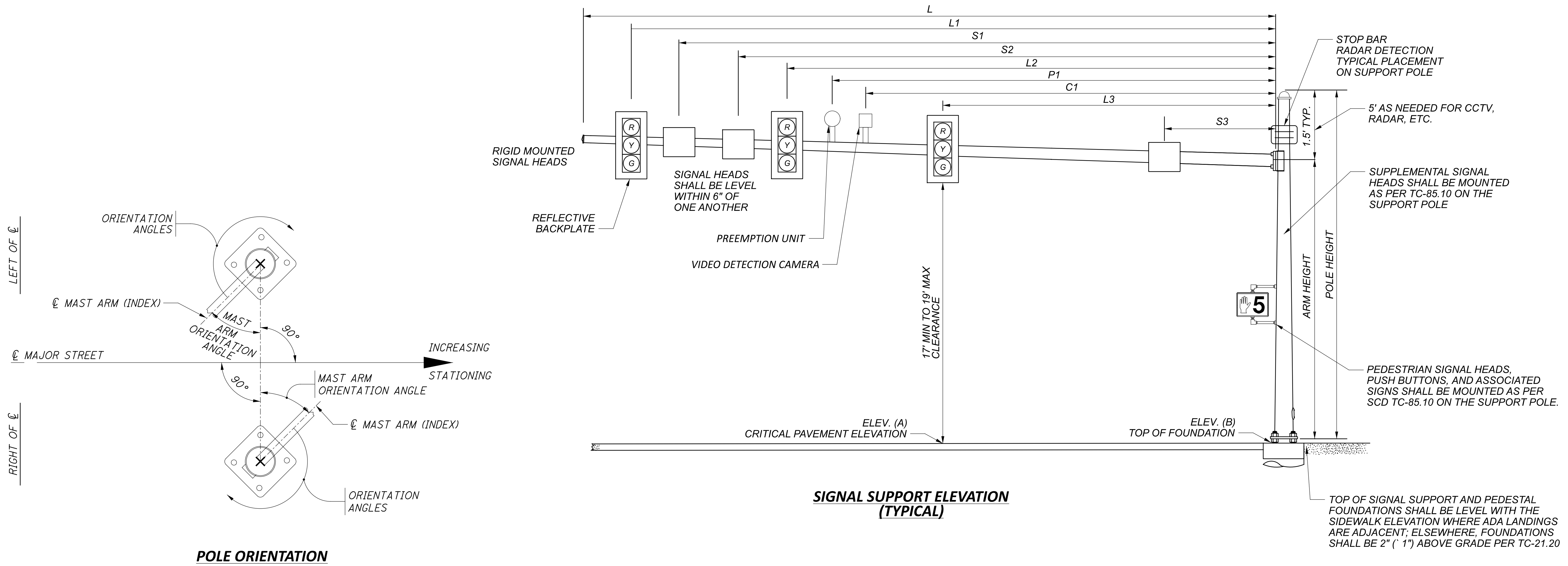


DESIGNER	CMS
REVIEWER	CML 11/29/22
PROJECT ID	102375
SHEET	TOTAL
549	705









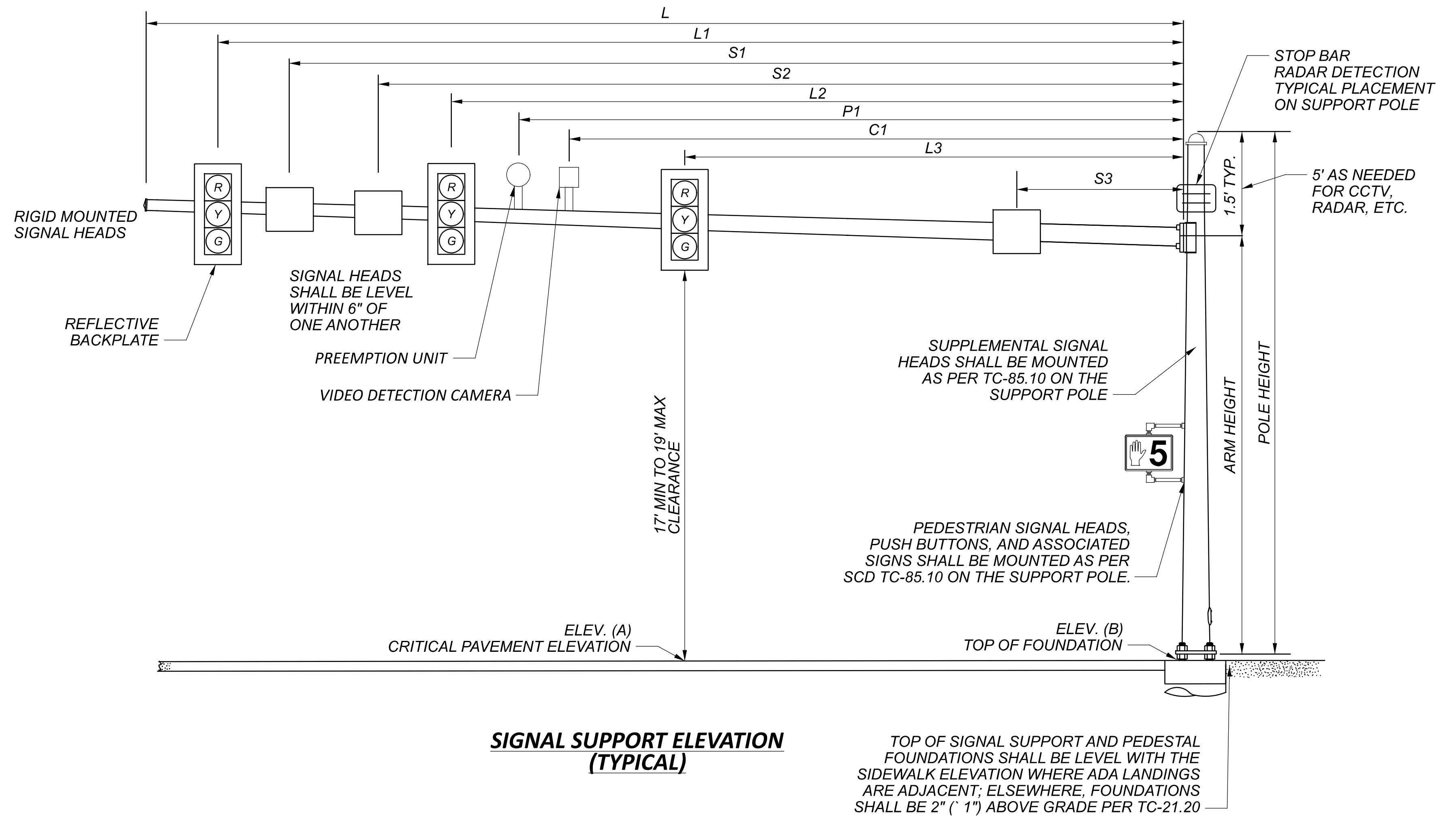
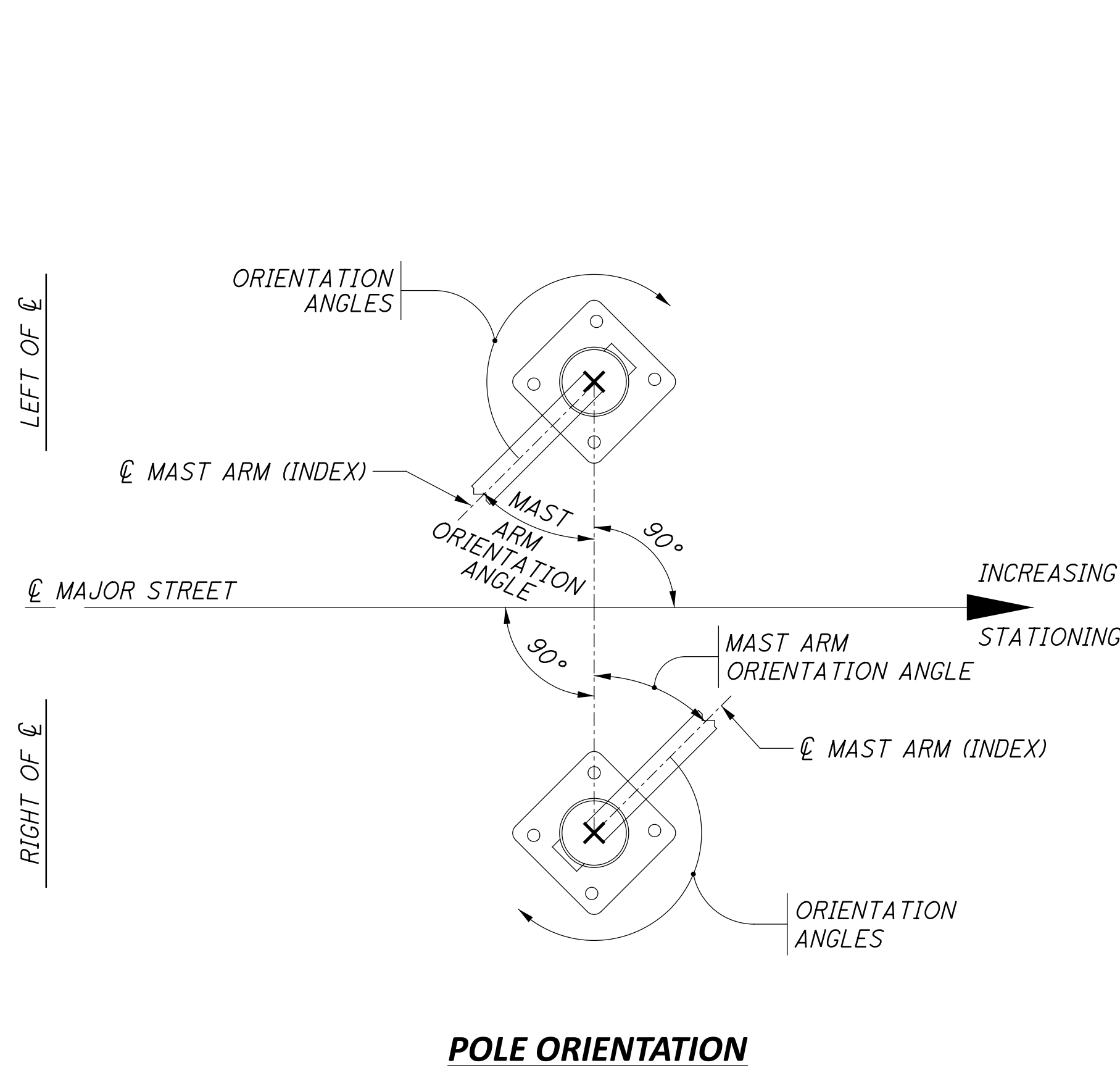
**POLE ORIENTATION**

**SIGNAL SUPPORT ELEVATION (TYPICAL)**

**MAST ARM TABLE**

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS											ORIENTATION ANGLES FROM MAST ARM A					
			A (Pavt. Elev.)	B (Top of Found.)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	C1	P1	S1	S2	MAST ARM A ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON	VEHICULAR SIGNAL	HANDHOLE	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG
SP-1	80+96.55	40.2' LT	840.28'	839.42'	TC-81.22	4	22.5	21	35	32	18	21	23	29	15	348			196	180	
SP-2	81+68.52	8.3' LT	842.04'	843.15'	TC-81.22	4	22.5	21	39	36	22	25	27	33	19	50			195	180	
SP-3	83+59.86	31.9' LT	847.58'	847.01'	TC-81.22	12	22.5	21	52	49	29	32	35	46	26	42				180	
SP-4	82+47.78	26.3' LT	845.59'	846.28'	TC-81.22	4	22.5	21	34	31	17	20	22	28	14	354				180	
PS-1	81+40.06	63.3' RT				PED	15												275	180	
PS-2	82+31.25	83.48' RT				PED	15										207	207	92	180	
PS-3	82+73.09	36.6' RT				PED	11										207	207		180	



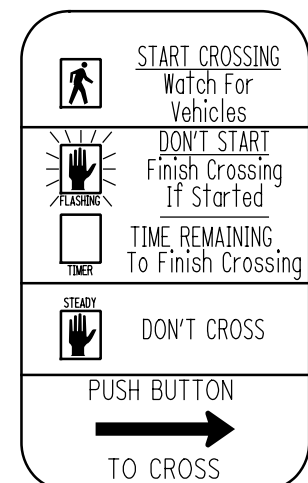


**MAST ARM TABLE**

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS													ORIENTATION ANGLES FROM MAST ARM				
			A	B	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	C1	P1	S1	S2	S3	MAST ARM A ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN BUTTON	VEHICULAR SIGNAL	HANDHOLE
								FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	DEG	DEG	DEG	DEG	DEG
SP-1	87+41.04	32.6' RT	844.59'	845.25'	TC-81.22	13	22.5	21	56	53	38	24	27	40	50	35	21	156	89	89		180
SP-2	86+58.19	44.7' RT	847.06'	847.29'	TC-81.22	2	22.5	21	25	22	11		14	16	19	8		80				180
SP-3	88+94.37	100.5' RT	840.05'	840.09'	TC-81.22	12	22.5	21	42	39	25		28	30	36	22		312				180
SP-4	89+05.64	39.6' RT	838.64'	838.99'	TC-81.22	2	22.5	21	32	29	15		18	21	26	12		197				180
PS-1	87+53.74	99.4' RT				PED	15												55	55	188	180
PS-2	88+10.13	94.3' RT				PED	15												51	51	200	180
PS-3	88+52.58	123' RT				PED	15												227	227	227	180
PS-4	88+52.12	10.3' LT				PED	15														269	180
PS-5	87+49.40	18.4' LT				PED	15														86	180



**PEDESTRIAN SIGNS**



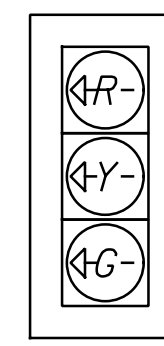
R9-3

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

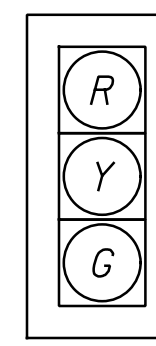
**SIGNAL HEADS**



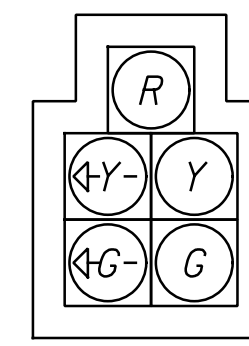
PEDESTRIAN HEADS  
(LED, COUNTDOWN,  
TYPE D2)



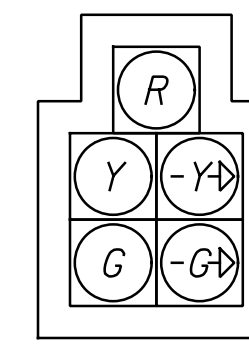
3A, 3B



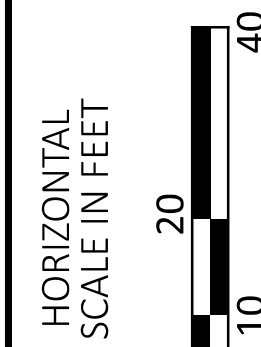
2A, 4A, 4B  
6A, 6B, 6C,  
6D, 8A, 8B



1A, 5A



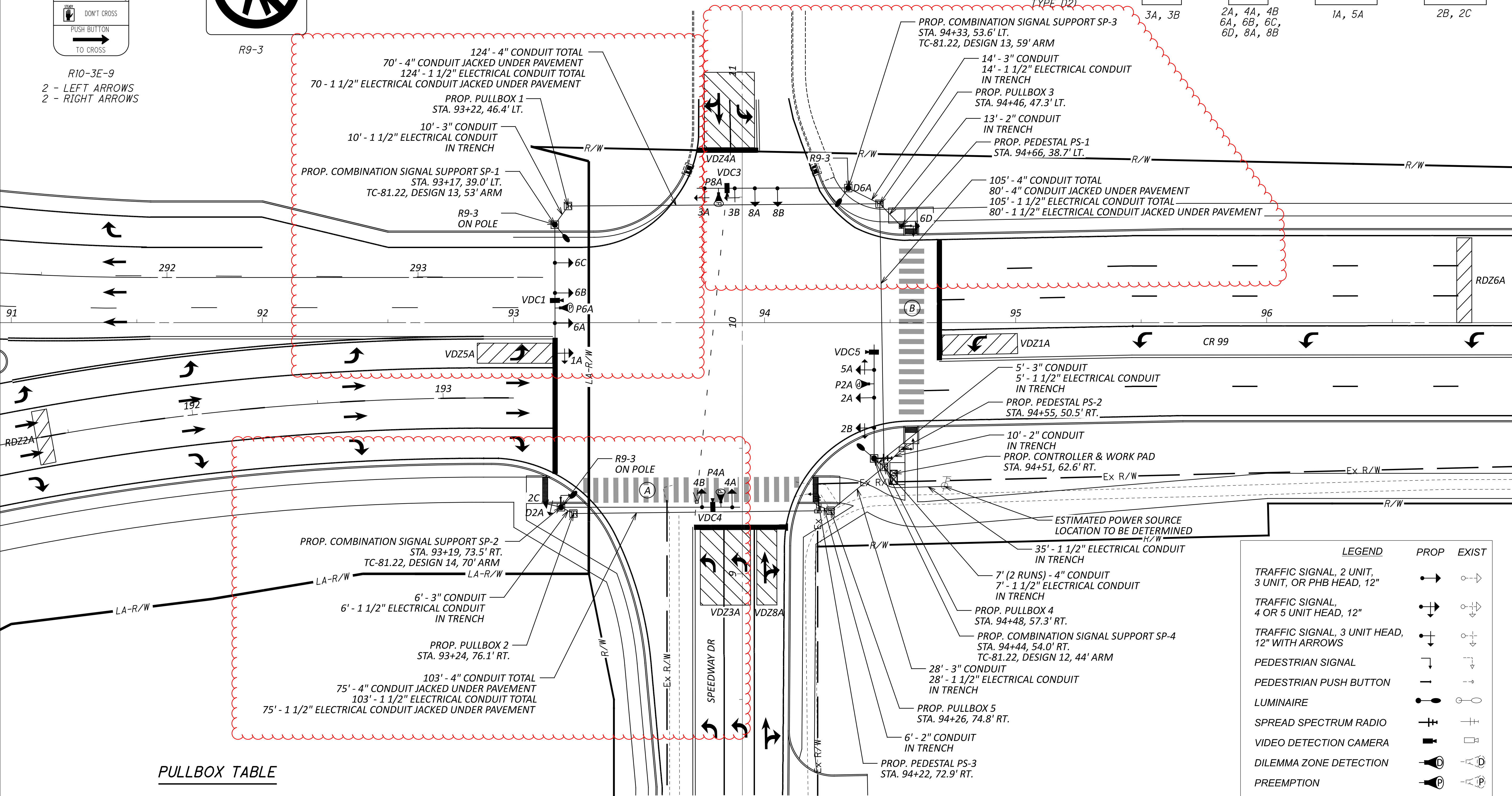
2B, 2C



**TRAFFIC SIGNAL PLAN  
CR-99 & SPEEDWAY DRIVE**

HAN-75/CR99 INTERCHANGE REHAB

MODEL: 102375\_CP001-1\_PAPER SIZE: 34x22 (in.) DATE: 2/1/2024 TIME: 3:03:33 PM USER: CMS  
 p:\p\h\druseas01\HDR\_US\_East\_01\Documents\Ohio\_DOT\ODT-HAN-75\_99\_Interchange\6.0\_CAD\_BIM\6.2\_WIP\01\_Design\102375\400-Engineering\Signals\Sheets\Speedway Drive



**PULLBOX TABLE**

PULL BOX #	STATION	SIDE	OFFSET	SIZE (IN.)
1	93+22	LT	46.4'	24
2	93+24	RT	76.1'	24
3	94+46	LT	47.3'	24
4	94+48	RT	57.3'	24
5	94+26	RT	74.8'	24

LEGEND	PROP	EXIST
TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD, 12"		
TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"		
TRAFFIC SIGNAL, 3 UNIT HEAD, 12" WITH ARROWS		
PEDESTRIAN SIGNAL		
PEDESTRIAN PUSH BUTTON		
LUMINAIRE		
SPREAD SPECTRUM RADIO		
VIDEO DETECTION CAMERA		
DILEMMA ZONE DETECTION		
PREEMPTION		
TRAFFIC PULL BOX		
PEDESTAL SUPPORT		
SIGNAL SUPPORT POLE		
CONTROLLER CABINET AND WORK PAD (TS-2)		
DETECTION ZONE		

DESIGN AGENCY  
  
 DESIGNER  
 CMS  
 REVIEWER  
 CML 11/29/22  
 PROJECT ID  
 102375  
 SHEET TOTAL  
 561 705







**SIGNAL TIMING CHART (TEM FORM 496-3)**

INTERSECTION:		CONTROLLER MOVEMENT NO.							
MAINTAINING AGENCY:		1	2	3	4	5	6	7	8
<b>START UP</b>		DUAL ENTRY: -				PHASES: -			
START IN:		REST IN RED: RING 1 -				RING 2 -			
TIME FOR FLASH, ALL RED: 9, 6		OVERLAP				A	B	C	D
FIRST PHASE(S): -		PHASES				-	-	-	-
COLOR DISPLAYED: -									
INTERSECTION MOVEMENT (PHASE)		1	2	3	4	5	6	7	8
DIRECTION		WB LT	EB	NB LT	SB	EB LT	WB	-	NB
MINIMUM GREEN (INITIAL) (SEC.)		7	20	7	10	7	20	-	10
ADDED INITIAL *(SEC./ACTUATION)		-	-	-	-	-	-	-	-
MAXIMUM INITIAL *(SEC.)		-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET GAP) (SEC.)		-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION *(SEC.)		-	-	-	-	-	-	-	-
MINIMUM GAP *(SEC.)		1	1	1	1	1	1	-	1
TIME TO REDUCE *(SEC.)		-	-	-	-	-	-	-	-
MAXIMUM GREEN I (SEC.)		15	25	15	25	15	25	-	25
MAXIMUM GREEN II (SEC.)		15	35	15	25	15	35	-	25
YELLOW CHANGE (SEC.)		4.2	5.2	3	3.4	4.2	5.2	-	3.4
ALL RED CLEARANCE (SEC.)		2.8	1	2.3	1.9	2.8	1	-	1.9
DELAYED GREEN (LPI) # (SEC.)		-	-	-	-	-	-	-	-
WALK (SEC.)		-	8	-	-	-	-	-	7
FLASHING YELLOW ARROW DELAY °		-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE (SEC.)		-	22	-	-	-	-	-	19
RECALL	MAXIMUM (ON/OFF)	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
	MINIMUM (ON/OFF)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	PEDESTRIAN (ON/OFF)	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
MEMORY (ON/OFF)		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

**PHASING DIAGRAM (TYPICAL)**

