

AC GAUGE OFFSET, AS PER PLAN

FOLLOW 403, EXCEPT AS FOLLOWS:

- OFFSET THE AC GAUGE FOR EACH JMF FOR THE PROJECT PRIOR TO THE PROJECT'S START USING 403.06.A AND THE MODIFIED SUPPLEMENT 1043 PROCEDURE BELOW.
- DURING THE S-1043.07 PROCESS, A RAP SAMPLE OBTAINED FROM THE JMF-DESIGNATED RAP PILE WILL BE EXTRACTED IN THE ASPHALT LEVEL 3 LAB TO VERIFY THE RAP AC%. THE RAP AC% WILL BE WITHIN 0.3% OF THE AVERAGE RAP AC% FROM THE JMF. IF RAP AC% IS OUTSIDE OF THE 0.3%, THE VERIFICATION PAN PROCESS WILL STOP, AND DISTRICT TESTING WILL ALLOW ONE OPPORTUNITY TO REWORK THE RAP PILE AT THE MIX PLANT AND RESAMPLE. RESAMPLING REQUIRES DISTRICT TESTING TO BE PRESENT. IF THE RESAMPLE IS STILL OUTSIDE OF THE 0.3%, THE JMF WILL BE RESCINDED AND NEED TO BE REDESIGNED.

FOLLOW 403.06 EXCEPT AS FOLLOWS:

- ENSURE ASPHALT BINDER CONTENT DOES NOT EXCEED TABLE 403.06.G-1. ADJUSTMENTS TO MIX PLANT CONTROL SETTINGS MUST BE SUBMITTED TO AND APPROVED BY DISTRICT TESTING PRIOR TO MAKING THE ADJUSTMENT. THE ADJUSTMENT CANNOT EXCEED +/-0.2% FROM DESIGN AC% FROM JMF. DO NOT LOWER VIRGIN BINDER CONTENT OR INCREASE RAP PERCENT. ENSURE PLANT TICKET SHOWS THE ADJUSTMENT AND IS SET TO THE ADJUSTED TOTAL AC% AT ALL TIMES AFTERWARDS.
- RECORD THE DAILY VERIFICATION PAN RESULTS IN A SEPARATE WORKSHEET AND MAKE SURE IT'S POSTED IN THE PLANT FACILITY AND AVAILABLE TO THE MONITORS. INCLUDE THE DATE RAN, VERIFICATION PAN RESULT, AND INITIALS OF WHO RAN IT. ENSURE A PRINTOUT OF THE DAILY VERIFICATION PAN IS ALSO INCLUDED WITH THE TE-199.

FOLLOW SUPPLEMENT 1043 FOR AC GAUGE OFFSET, EXCEPT AS MODIFIED BELOW:

- FOLLOW 1043.07 EXCEPT AS FOLLOWS:
 - o NOTIFY DISTRICT TESTING A MINIMUM OF ONE WEEK PRIOR TO MAKING VERIFICATION PANS.
 - o DISTRICT TESTING WILL WITNESS A SOLVENT EXTRACTION FROM A SAMPLE FROM THE RAP PILE THAT IS TO BE USED IN THE JMF TO VERIFY THE RAP AC%. RAP AC% WILL BE WITHIN 0.3% OF RAP AC% DETERMINED IN JMF. IF OUTSIDE OF 0.3%, DO NOT PROCEED AND THE JMF WILL NEED TO BE REDESIGNED.
 - o DISTRICT TESTING WILL WITNESS THE VERIFICATION PANS BEING BLENDED, MIXED, AND COMPACTED.
 - o MAKE A MINIMUM OF THREE VERIFICATION PANS FOR THE JMF THAT ARE AT THE JMF ASPHALT BINDER CONTENT. MAKE ONE ADDITIONAL VERIFICATION PAN FOR EACH ADDITIONAL DISTRICT THE JMF WILL BE USED IN.
 - o IN ADDITION, TURN POSSESSION OVER OF THE CALIBRATION AC GAUGE PANS USED TO DETERMINE THE FIT COEFFICIENT TO DISTRICT TESTING.
- FOR AC CONTENT PAY ACCEPTANCE, REPLACE 1043.08 WITH THE FOLLOWING:

CALCULATE AN AC GAUGE OFFSET AMOUNT FOR EACH JMF AND MIX PLANT IN ACCORDANCE WITH THE FOLLOWING PROCEDURE PRIOR TO START OF ANY PRODUCTION FOR THE JMF. NOTIFY DISTRICT TESTING 24 HOURS PRIOR TO OFFSETTING GAUGE.

1. ENSURE PRINTER IS ON AND PLACE THE FIRST VERIFICATION PAN IN THE AC GAUGE AND RUN.
2. AFTER THE 16-MINUTE TEST, TAKE THE VERIFICATION PAN OUT AND TURN 180 DEGREES AND PLACE BACK IN AC GAUGE AND RUN.
3. REPEAT STEPS 1 AND 2 WITH SECOND AND THIRD VERIFICATION PANS.
4. FOR EACH RUN, TAKE THE JMF ASPHALT BINDER CONTENT MINUS THE AC GAUGE AC% TO OBTAIN THE OFFSET OF THE RUN.
5. AVERAGE ALL OFFSETS FOR A FINAL OFFSET.
6. RETAIN ALL OF THE VERIFICATION PANS. AFTER THE FINAL OFFSET IS DETERMINED, DISTRICT TESTING WILL CHOOSE TWO OF THE VERIFICATION PANS AND SEND ONE OF THESE TWO TO OMM TO EXTRACT AND REFLUX.
7. DISTRICT TESTING WILL USE THE TWO VERIFICATION PANS TO OFFSET THEIR AC GAUGE.

BEFORE THE BEGINNING OF A PRODUCTION DAY, RUN THE VERIFICATION PAN IN THE AC GAUGE AND ENSURE THE OFFSET AC GAUGE AMOUNT IS WITHIN 0.14% OF THE JMF ASPHALT BINDER CONTENT. DURING THE START OF PRODUCTION FOR THE JMF, SOLVENT EXTRACT THE FIRST TOW QC SAMPLES AND COMPARE TO THE OFFSET AC GAUGE. ENSURE SOLVENT EXTRACTION IS WITHIN 0.3% OF OFFSET AC GAUGE. IF MORE THAN 0.3% OFF, IMMEDIATELY RESAMPLE AND RUN AC GAUGE AND SOLVENT EXTRACT IMMEDIATELY. IF TWO CONSECUTIVE SAMPLES ARE MORE THAN 0.3% OFF, IMMEDIATELY STOP PRODUCTION, CONTACT MONITORING TEAM, AND INVESTIGATE THE REASON FOR THE PROBLEM. ONCE TWO CONSECUTIVE QC SAMPLES ARE WITHIN 0.3% OF OFFSET AC GAUGE, THE FINAL OFFSET GAUGE IS CONFIRMED.

AFTER CONFIRMING THE AC GAUGE OFFSET AMOUNT, PROCEED WITH DETERMINING AC CONTENTS OF PRODUCTION SAMPLES BY THE AC GAUGE ACCORDING TO 1043.09.

ONLY DETERMINE ONE AC GAUGE OFFSET AMOUNT PER JMF. IF MORE THAN 30 DAYS HAS LAPSED SINCE THE JMF WAS LAST TESTED, RE-DO THE OFFSET PROCEDURE ABOVE WITH TWO VERIFICATION PANS (ONE FROM THE CONTRACTOR AND ONE FROM THE DISTRICT). IF AN AC GAUGE OFFSET AMOUNT IS LATER DETERMINED, BY AN INVESTIGATION OF BOTH THE CONTRACTOR AND THE DISTRICT, TO BE INCORRECT, RE-DO THE OFFSET PROCEDURE.

IN ADDITION, ALSO DETERMINE THE AC GAUGE OFFSET FOLLOWING THE CURRENT PROCEDURE AS OUTLINE IN SUPPLEMENT 1043 DATED JANUARY 21, 2022 AND PROVIDE THE INFORMATION TO THE DEPARTMENT. THIS AC GAUGE OFFSET NUMBER WILL NOT BE USED DURING QC TESTING.

ITEM 408 - PRIME COAT, AS PER PLAN

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER SECTION 702) AT A RATE OF 0.40 GAL/SY TO THE COMPLETED AGGREGATE SHOULDER (ITEM 617) AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PWL, 2024, APP (PG70-22)
ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446), PWL, 2024, APP (PG70-22)

ALL REQUIREMENTS OF C&MS ITEM 442 APPLY EXCEPT AS SHOWN BELOW:

DENSITY ACCEPTANCE: FOLLOW THE REQUIREMENTS OF 447 DENSITY ACCEPTANCE FOR THE SURFACE COURSE ITEM AND 446 DENSITY ACCEPTANCE FOR THE INTERMEDIATE COURSE ITEM, EXCEPT AS MODIFIED BELOW:

OBTAIN 6-INCH DIAMETER CORES FOR EACH LOT.

THE PWL CALCULATOR, LOCATED ON THE ODOT WEBSITE AT THE OFFICE OF CONSTRUCTION ADMINISTRATION, WILL BE USED TO DETERMINE THE LOT PWL AND THE LOT AASHTO PAY FACTORS.

THE DEPARTMENT WILL DETERMINE THE PAY FACTOR FOR EACH LOT CORED BY THE FOLLOWING TABLES:

FOR 447 DENSITY ACCEPTANCE:

Lower Specification Limit	Pay Factor Criteria	Pay Factor (PF)
92.6%	If AVE density is $\geq 93\%$ AND $PWL \geq 80$	PF =1 or AASHTO PF whichever is greater
	If $80 > PWL > 50$	AASHTO PF
	If $PWL \leq 50$	REMOVE AND REPLACE

FOR 446 DENSITY ACCEPTANCE:

Lower Specification Limit	Pay Factor Criteria	Pay Factor (PF)
91%	If AVE density is $\geq 91.4\%$ AND $PWL \geq 80$	PF =1 or AASHTO PF whichever is greater
	If $80 > PWL > 50$	AASHTO PF
	If $PWL \leq 50$	REMOVE AND REPLACE

PWL REQUIREMENTS DO NOT APPLY FOR PAVEMENTS PLACED ON CROSSEOVERS, REST AREAS, OR RAMPS. FOLLOW THE REQUIREMENTS FOR ITEM 442 WITH THE APPROPRIATE DENSITY SPECIFICATION FOR ASPHALT CONCRETE IN THESE AREAS AS DIRECTED BY THE ENGINEER.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN (PG70-22)

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS.
CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%.
MINIMUM TOTAL PG BINDER CONTENT IS 6.3 PERCENT.
MINIMUM VIRGIN PG BINDER CONTENT IS 5.2 PERCENT.
USE A PG 70-22 BINDER.

WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE PAVEMENT FRICTION IN SURFACE PAVEMENT.

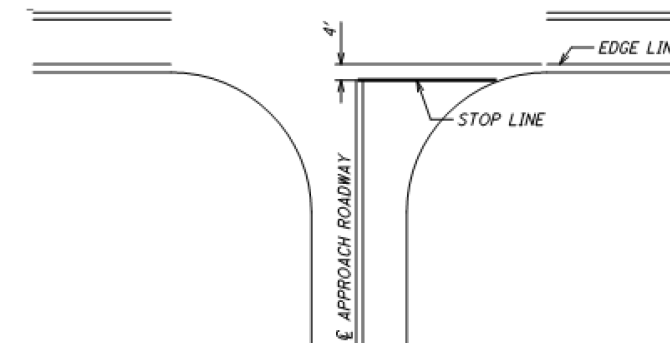
TRAFFIC CONTROL

TRAFFIC CONTROL

- 1- STRIPE ALL THROUGH LANES AT 12', WITH THE LANE LINE MAINTAINING ITS EXISTING LOCATION.
- 2- STRIPE ALL RAMPS AND SPEED CHANGE LANES AT THEIR EXISTING WIDTH IN THEIR EXISTING CONFIGURATION, UNLESS SHOWN OTHERWISE IN THESE PLANS.
- 3- PLACE TWO WRONG WAY ARROWS PER RAMP IN ACCORDANCE WITH SCD TC-73.20
- 4- ALL EXISTING STOP LINES, CHANNELIZING LINES, LANE LINES, AND EDGE LINES ARE TO BE REPLACED WITH WORK ZONE LINES AFTER THE EXISTING MARKINGS ARE REMOVED AND PRIOR TO OPENING TRAFFIC TO THE AFFECTED SECTION OF ROADWAY. QUANTITIES ARE INTENDED TO BE PLACED AFTER MILLING, AFTER THE INTERMEDIATE COURSE (IF APPLICABLE), AND AFTER SURFACE COURSE PRIOR TO PERMANENT MARKINGS.
- 5- USE 642 PAINT, TYPE 1 FOR ALL WORK ZONE PAVEMENT MARKINGS.
- 6- CONTINUE 850/807 MARKINGS OVER BRIDGE DECKS; DO NOT INTERRUPT RECESSED WET REFLECTIVE MARKINGS.

STOP BAR PLACEMENT

IN ORDER TO ACHIEVE MAXIMUM INTERSECTION SIGHT DISTANCE, AT NORMAL STOP CONTROLLED RURAL INTERSECTIONS WITHOUT CROSSWALK, PLACE THE STOP BAR FOUR FEET FROM THE EDGE LINE OF THE INTERSECTING ROADWAY, OR IN LINE WITH THE OUTSIDE EDGE OF THE PAVED SHOULDER, WHICHEVER IS WIDER.



PAVEMENT MARKING LOG

PRIOR TO REMOVING, GRINDING, OR OTHERWISE DESTROYING ANY EXISTING PAVEMENT MARKINGS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CREATE AN EXISTING PAVEMENT MARKING LOG IN ORDER TO PLACE THE PROPOSED PAVEMENT MARKINGS IN THE SAME LOCATION AS THEIR EXISTING CONFIGURATION. SUBMIT THE EXISTING PAVEMENT MARKING LOG TO THE ENGINEER AND OBTAIN HIS OR HER APPROVAL PRIOR TO REMOVING, GRINDING, OR OTHERWISE DESTROYING THE EXISTING PAVEMENT MARKINGS. [XXX - ADDITIONAL NOTE FOR CITY APPROVAL IF APPLICABLE. EXAMPLE: ADDITIONALLY, SUBMIT THE EXISTING PAVEMENT MARKINGS LOG TO THE CITY OF GALION AND OBTAIN THEIR APPROVAL PRIOR TO REMOVING, GRINDING, OR OTHERWISE DESTROYING THE EXISTING PAVEMENT MARKINGS.]

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK SHOULD BE INCLUDED IN THE CONTRACT LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

INCIDENTALS

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO REGISTERED PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS. WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND BELOW LANE AND SHOULDER CONFIGURATION. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO REGISTERED PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING WEBSITE:

[HTTP://WWW.DOT.STATE.OH.US/DISTRICTS/D12/HIGHWAY/MANAGEMENT/PAGES/PERMITS.ASPX](http://www.dot.state.oh.us/districts/d12/highway/management/pages/permits.aspx)

DESIGN AGENCY	DISTRICT 3
ENGINEERING TEAM FOUR	
DESIGNER	JLB
REVIEWER	NRF 09/22/23
PROJECT ID	116650
SHEET TOTAL	P.9 49

**ITEM 614 – MAINTAINING TRAFFIC (GENERAL)
(TEM 642-2)**

MAINTAIN ONE 11' LANE OF TRAFFIC AT ALL TIMES IN EACH DIRECTION.

SUBMIT, IN WRITING, A SCHEDULE OF OPERATIONS TO THE ENGINEER AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT. PRIOR TO BEGINNING WORK, COORDINATE THE MAINTENANCE OF TRAFFIC OPERATIONS WITH THE LOCAL STATE HIGHWAY PATROL.

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

BUTT JOINTS

DO NOT CUT BUTT JOINTS AND ALLOW THEM TO BE LEFT OPEN TO TRAFFIC. FILL THE BUTT JOINTS WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH THE TAPER RATES SET FORTH IN SCD BP-3.1.

ERECT AND MAINTAIN CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. PAYMENT FOR THESE SIGNS WILL BE MADE UNDER THE LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

CONTRACTOR EQUIPMENT ACCESS AND WORK OPERATIONS

IN ADDITION TO THE REQUIREMENTS OF SECTION 614 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SHALL APPLY:

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAVEL WHERE PRACTICAL. A FLAGGER SHALL BE USED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM.

THE CONTRACTOR SHALL ARRANGE CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO THE CLOSED LANES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LANE CLOSURE DISINCENTIVE

A LANE CLOSURE IS DEFINED AS ANY RESTRICTION OF A LANE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO, SET UP AND TEAR DOWN OF TRAFFIC CONTROL ZONES. THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE IN THE AMOUNT OF \$85 PER MINUTE THAT LANES ARE CLOSED TOR TRAFFIC DURING TIMES DESIGNATED AS "LANE CLOSURE NOT PERMITTED" AS STATED IN THESE PLANS AND ON THE ODOT PLCM WEB SITE AT <http://plcm.dot.state.oh.us>.

**ITEM 614 – MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)
(TEM 642-6)**

NO WORK SHALL BE PERFORMED, AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS DAY	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$85 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

**ITEM 614 – MAINTAINING TRAFFIC (LANE CLOSURE/REDUCTION REQUIRED)
(TEM 642-7)**

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A FIVE (5) CALENDAR DAYS SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

**ITEM 614 – MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)
(TEM 642-9)**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC. INCLUDE THE COST FOR THE REMOVAL OF ALL MAINTENANCE OF TRAFFIC MATERIALS IN THE CONTRACT BID PRICE FOR EACH ITEM BELOW. REMOVE THE MATERIALS AT THE DIRECTION OF THE ENGINEER WHEN NO LONGER OPERATIONALLY NEEDED.

ITEM 614 – ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 30 CU YD

TEMPORARY PAVEMENT WEDGES

PROVIDE TEMPORARY PAVEMENT WEDGES AT ALL TIMES WHERE TRAFFIC IS REQUIRED TO TRAVEL FROM OR ONTO A SURFACE OF A DIFFERENT ELEVATION IN THE DIRECTION OF TRAVEL (JOINTS, MANHOLES, CATCH BASINS, VALVE BOXES, MONUMENT BOXES, ETC.). THE TAPER RATE OF THE TEMPORARY PAVEMENT WEDGES SHALL BE AS PER THE REQUIREMENTS IN THE CHART BELOW. REMOVE THE TEMPORARY PAVEMENT WEDGES PRIOR TO PLACING EACH PROPOSED PAVEMENT COURSE. CONSIDER PAYMENT FOR THIS WORK, INCLUDING ALL MATERIAL, LABOR, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK, AS INCIDENTAL TO ITEM 614 – ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

SPEED		DURATION	
		7 DAYS OR LESS	MORE THAN 7 DAYS
45 MPH OR GREATER	LESS THAN 45 MPH	36H:1V	60H:1V
	45 MPH OR GREATER	60H:1V	120H:1V

**WORK ZONE MARKINGS AND SIGNS
(TEM 642-20)**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11. MARKING QUANTITIES ARE AS LISTED ON THE RPM AND PAVEMENT MARKING SUBSUMMARY.

WORK ZONE MARKING SIGN: (W8-H12A-36) NO EDGE LINE 12 EACH

REMOVED PERMITTED LANE CLOSURE SCHEDULE NOTE. USE LINK IN THE "LANE CLOSURE DISINCENTIVE" NOTE FOR LANE CLOSURE SCHEDULE

**WORK ZONE SPEED ZONES (WZSZs)
(TEM 642-24)**

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S)	COUNTY-ROUTE-SECTION(S)	DIRECTION(S)
WZ-20679	Cra-30-9.53 TO 15.88	BOTH

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, Crossover, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS SHALL BE IN ACCORDANCE WITH THIS NOTE AND SCD MT-104.10. ADDITIONALLY, PAYMENT MAY BE REMOVED, OR A DISINCENTIVE APPLIED, FOR WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS THE SAME AS DESCRIBED IN THE MOST RECENT PUBLICATION OF SS 808 IN REGARD TO WZSZS USING DSL SIGN ASSEMBLIES (SEE SS 808.06 PARAGRAPHS 4 THROUGH 7, INCLUDING TABLE 1.) ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS:

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55


THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808 - DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY 98 SIGN MNTH ASSUMING 14 DSL SIGN ASSEMBLY(IES) FOR 7MONTH(S)

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	10	11	12	13	14	19	21	22	23	38	01/NHS/05	02/NHS/13						
																		STRUCTURE REPAIR (CRA-30-9.94 L)	
											12		12	202	11300	12	CY	PORTIONS OF STRUCTURE REMOVED	
											116		116	202	98200	116	FT	REMOVAL MISC.: JOINT SEAL	36
											171		171	254	01001	171	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	36
											14		14	407	13900	14	GAL	TACK COAT, 702.13 (0.08 GAL/SY)	
											8		8	442	22101	8	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN (PG70-22)	9
											12		12	511	34444	12	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											137		137	512	10101	137	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
											1,134		1,134	512	73500	1,134	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
											116		116	516	31000	116	FT	JOINT SEALER	
											3	3		611	98630	3	EACH	CATCH BASIN ADJUSTED TO GRADE	
											2		2	621	54001	2	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	36
																		STRUCTURE REPAIR (CRA-30-9.92 R)	
											5		5	202	11300	5	CY	PORTIONS OF STRUCTURE REMOVED	
											116		116	202	98200	116	FT	REMOVAL MISC.: JOINT SEAL	36
											90		90	254	01001	90	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	36
											48		48	254	01010	48	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")	
											12		12	407	13900	12	GAL	TACK COAT, 702.13 (0.08 GAL/SY)	
											6		6	442	22101	6	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN (PG70-22)	9
											5		5	511	34444	5	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											61		61	512	10101	61	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
											1,134		1,134	512	73500	1,134	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
											116		116	516	31000	116	FT	JOINT SEALER	
											1	1		611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
											2		2	621	54001	2	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	36
																		STRUCTURE REPAIR (CRA-30-10.92 L)	
											3		3	202	11300	3	CY	PORTIONS OF STRUCTURE REMOVED	
											126		126	202	98200	126	FT	REMOVAL MISC.: JOINT SEAL	36
											135		135	254	01001	135	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	36
											51		51	254	01010	51	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")	
											15		15	407	13900	15	GAL	TACK COAT, 702.13 (0.08 GAL/SY)	
											6		6	442	22101	6	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN (PG70-22)	9
											3		3	511	34444	3	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											30		30	512	10101	30	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
											1,217		1,217	512	73500	1,217	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
											126		126	516	31000	126	FT	JOINT SEALER	
											2		2	621	54001	2	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	36
																		STRUCTURE REPAIR (CRA-30-10.90 R)	
											6		6	202	11300	6	CY	PORTIONS OF STRUCTURE REMOVED	
											126		126	202	98200	126	FT	REMOVAL MISC.: JOINT SEAL	36
											708		708	254	01001	708	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	36
											40		40	254	01010	40	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")	
											60		60	407	13900	60	GAL	TACK COAT, 702.13 (0.08 GAL/SY)	
											32		32	442	22101	32	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN (PG70-22)	9
											6		6	511	34444	6	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											71		71	512	10101	71	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
											1,217		1,217	512	73500	1,217	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
											126		126	516	31000	126	FT	JOINT SEALER	
											2		2	621	54001	2	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	36

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3



ENGINEERING TEAM FOUR

DESIGNER
JLB


REVIEWER
NRF 09/22/23

PROJECT ID
116650

SHEET TOTAL
P.16 49

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	10	11	12	13	14	19	21	22	23	38	01/NHS/05	02/NHS/13						
																		STRUCTURE REPAIR (CRA-30-11.23 L)	
											4	4		202	11300	4	CY	PORTIONS OF STRUCTURE REMOVED	
											114	114		202	98200	114	FT	REMOVAL MISC.: JOINT SEAL	36
											147	147		254	01001	147	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	36
											83	83		254	01010	83	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")	
											19	19		407	13900	19	GAL	TACK COAT, 702.13 (0.08 GAL/SY)	
											7	7		442	22101	7	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN (PG70-22)	9
											4	4		511	34444	4	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											43	43		512	10101	43	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
											774	774		512	73500	774	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
											114	114		516	31000	114	FT	JOINT SEALER	
											1	1		611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
											2		2	621	54001	2	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	36
																		STRUCTURE REPAIR (CRA-30-11.22 R)	
											3	3		202	11300	3	CY	PORTIONS OF STRUCTURE REMOVED	
											147	147		254	01001	147	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	36
											40	40		254	01010	40	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")	
											15	15		407	13900	15	GAL	TACK COAT, 702.13 (0.08 GAL/SY)	
											8	8		442	22101	8	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN (PG70-22)	9
											3	3		511	34444	3	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											32	32		512	10101	32	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
											774	774		512	73500	774	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
											1	1		621	54001	1	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	36
																		STRUCTURE REPAIR (CRA-CR35-2.38)	
											5	5		202	11300	5	CY	PORTIONS OF STRUCTURE REMOVED	
											5	5		511	34444	5	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											59	59		512	10101	59	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
																		STRUCTURE REPAIR (CRA-602-0.76)	
											6	6		202	11300	6	CY	PORTIONS OF STRUCTURE REMOVED	
											6	6		511	34444	6	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
											68	68		512	10101	68	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	36
																		MAINTENANCE OF TRAFFIC	
				650							650			614	11110	650	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					2	2					4			614	12380	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
		12									12			614	12460	12	EACH	WORK ZONE MARKING SIGN (NO EDGE LINE)	
			14								14			614	12484	14	EACH	WORK ZONE INCREASED PENALTIES SIGN	
		30									30			614	13000	30	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
					35	40					75			614	13310	75	EACH	BARRIER REFLECTOR, TYPE 1(ONE-WAY)	
					35	40					75			614	13350	75	EACH	OBJECT MARKER, ONE WAY	
							21				21			614	18601	21	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	11
					0.34	0.32					0.66			614	20210	0.66	MILE	WORK ZONE LANE LINE, CLASS I, 6", 740.06, TYPE I (BLACK)	
								37.81			37.81			614	20560	37.81	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
					0.04						0.04			614	22210	0.04	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I (BLACK)	
					1.03	0.8					1.83			614	22210	1.83	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I (WHITE)	
								40.77			40.77			614	22360	40.77	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT (WHITE)	
								40.77			40.77			614	22360	40.77	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT (YELLOW)	
								22,818			22,818			614	23690	22,818	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
					1,794	16,682					18,476			614	24400	18,476	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I	
								632			632			614	26610	632	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
					852	960					1,812			622	41100	1,812	FT	PORTABLE BARRIER, UNANCHORED	
		98									98			808	18700	98	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																		INCIDENTALS	
											LS	LS		614	11000	LS		MAINTAINING TRAFFIC	
											7			619	16020	7	MNTH	FIELD OFFICE, TYPE C	
											LS	LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	9
											LS	LS		624	10000	LS		MOBILIZATION	

DESIGN AGENCY
DISTRICT 3



ENGINEERING
TEAM FOUR

DESIGNER
JLB

REVIEWER
NRF 09/22/23

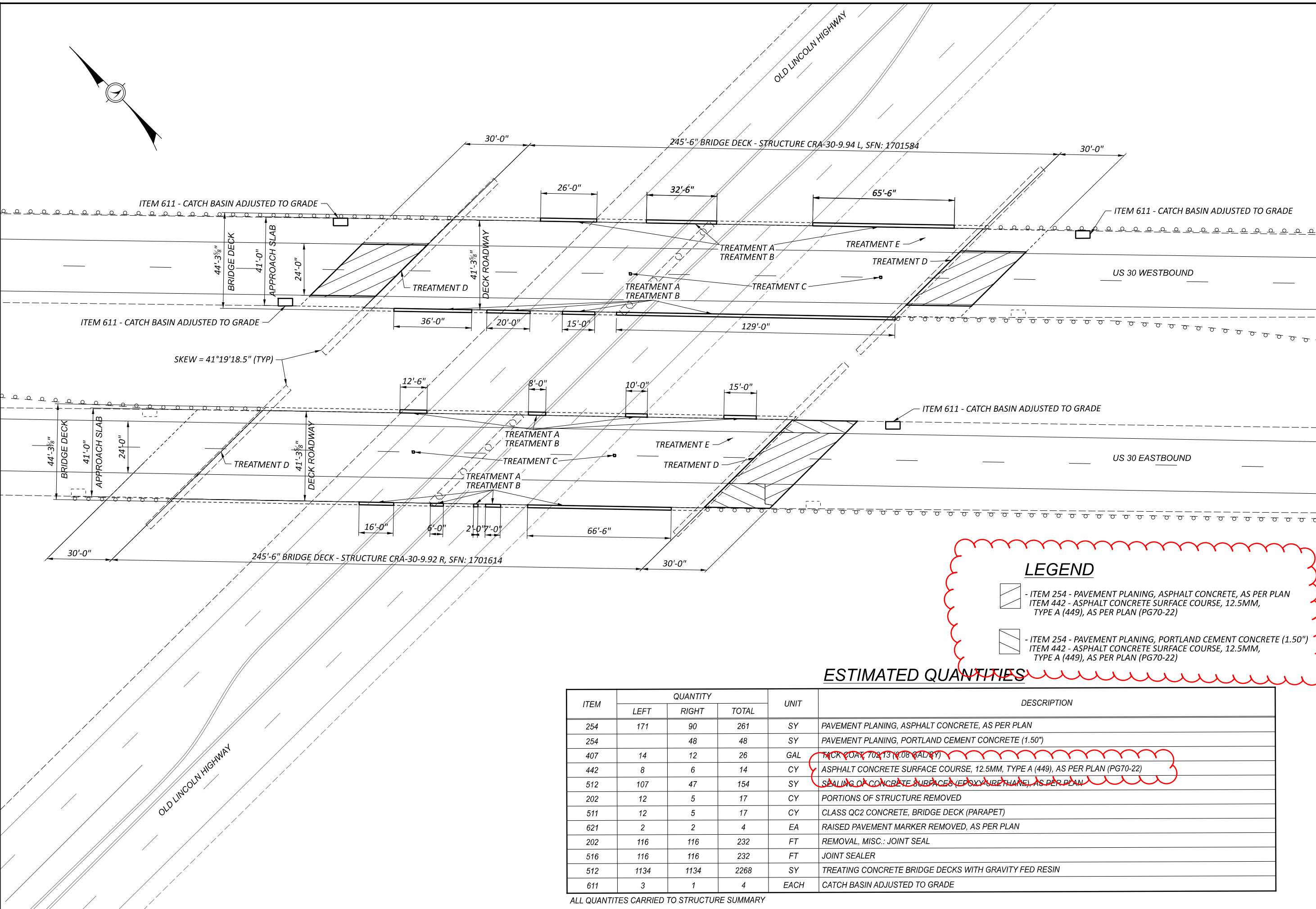
PROJECT ID
116650

SHEET TOTAL
P.17 49

ESTIMATED QUANTITIES

ITEM	QUANTITY										TOTAL	UNIT	DESCRIPTION
	CRA-30-9.94/9.92		CRA-30-10.92/10.90		CRA-30-11.23/11.22		CRA-CR35-2.38		CRA-602-0.76				
	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT			
202	12	5	3	6	4	3	2	3	2	4	44	CY	PORTIONS OF STRUCTURE REMOVED
202	116	116	126	126							484	FT	REMOVAL, MISC.: JOINT SEAL
254	171	90	135	708	147	147					1398	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
254		48	51	40	83	40					262	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")
407	14	12	15	60	19	15					135	GAL	TACK COAT, 702.13 (0.08 GAL/SY)
442	8	6	6	32	7	8					67	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)
511	12	5	3	6	4	3	2	3	2	4	44	CY	CLASS 002 CONCRETE BRIDGE DECK (PARAPET)
512	107	47	23	55	33	25	17	29	18	35	389	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
512	1134	1134	1217	1217	774	774					6250	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
516	116	116	126	126							484	FT	JOINT SEALER
611	3	1			1						5	EA	CATCH BASIN ADJUSTED TO GRADE
621	2	2	2	2	2	1					11	EA	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN

ALL QUANTITIES CARRIED TO GENERAL SUMMARY



STRUCTURE DETAILS
STRUCTURES CRA-30-9.92 R & CRA-30-9.94 L
CARRYING US 30 OVER OLD LINCOLN HIGHWAY

LEGEND

- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
 ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)
- ITEM 254 - PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")
 ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)

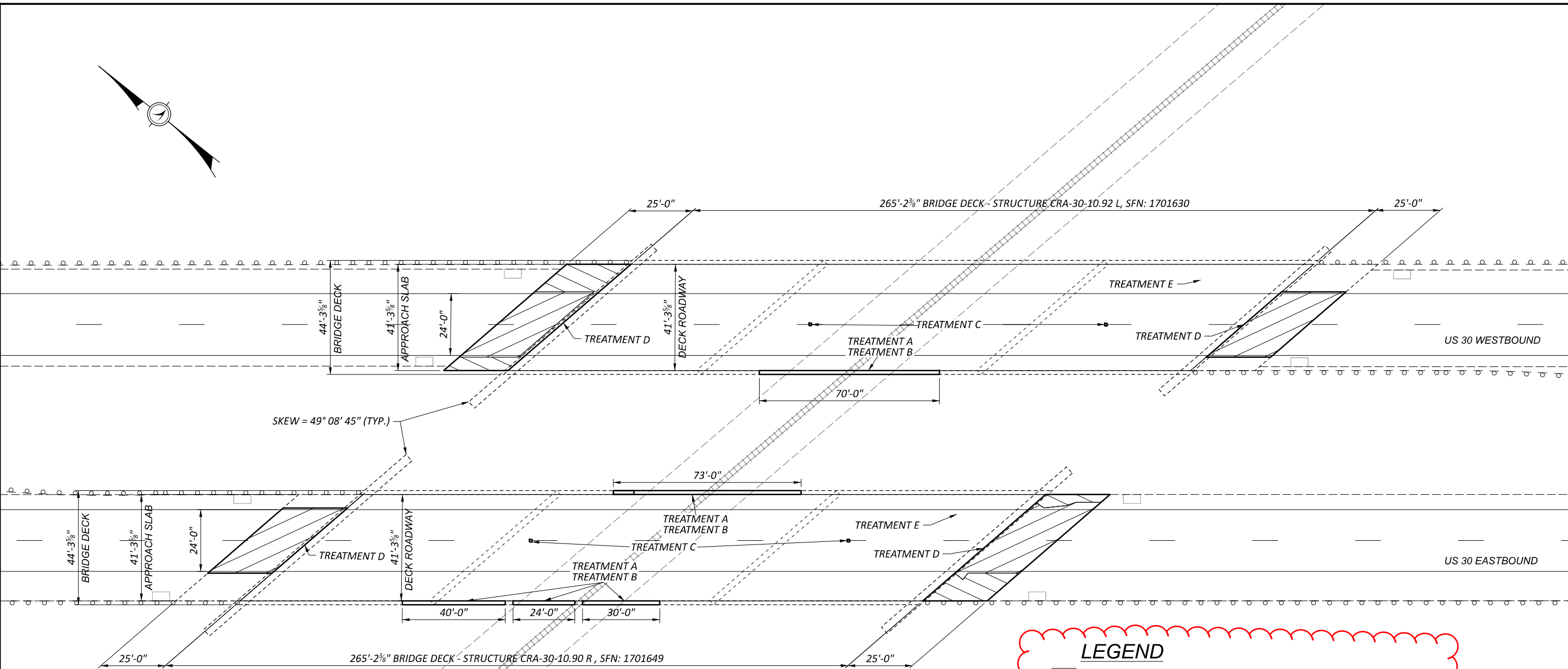
ESTIMATED QUANTITIES

ITEM	QUANTITY			UNIT	DESCRIPTION
	LEFT	RIGHT	TOTAL		
254	171	90	261	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
254		48	48	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")
407	14	12	26	GAL	TACK COAT, 702.13 (0.08 GAL/SY)
442	8	6	14	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)
512	107	47	154	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN
202	12	5	17	CY	PORTIONS OF STRUCTURE REMOVED
511	12	5	17	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
621	2	2	4	EA	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN
202	116	116	232	FT	REMOVAL, MISC.: JOINT SEAL
516	116	116	232	FT	JOINT SEALER
512	1134	1134	2268	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
611	3	1	4	EACH	CATCH BASIN ADJUSTED TO GRADE

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY

SFN 1701614
 SFN 1701584
 DESIGN AGENCY DISTRICT 3

 ENGINEERING TEAM FOUR
 DESIGNER JLB CHECKER JNC
 REVIEWER NRF 09/22/23
 PROJECT ID 116650
 SUBSET 3 TOTAL 7
 SHEET P.39 TOTAL 49



LEGEND

- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
 ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)
- ITEM 254 - PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")
 ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)

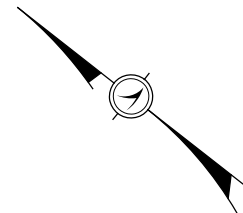
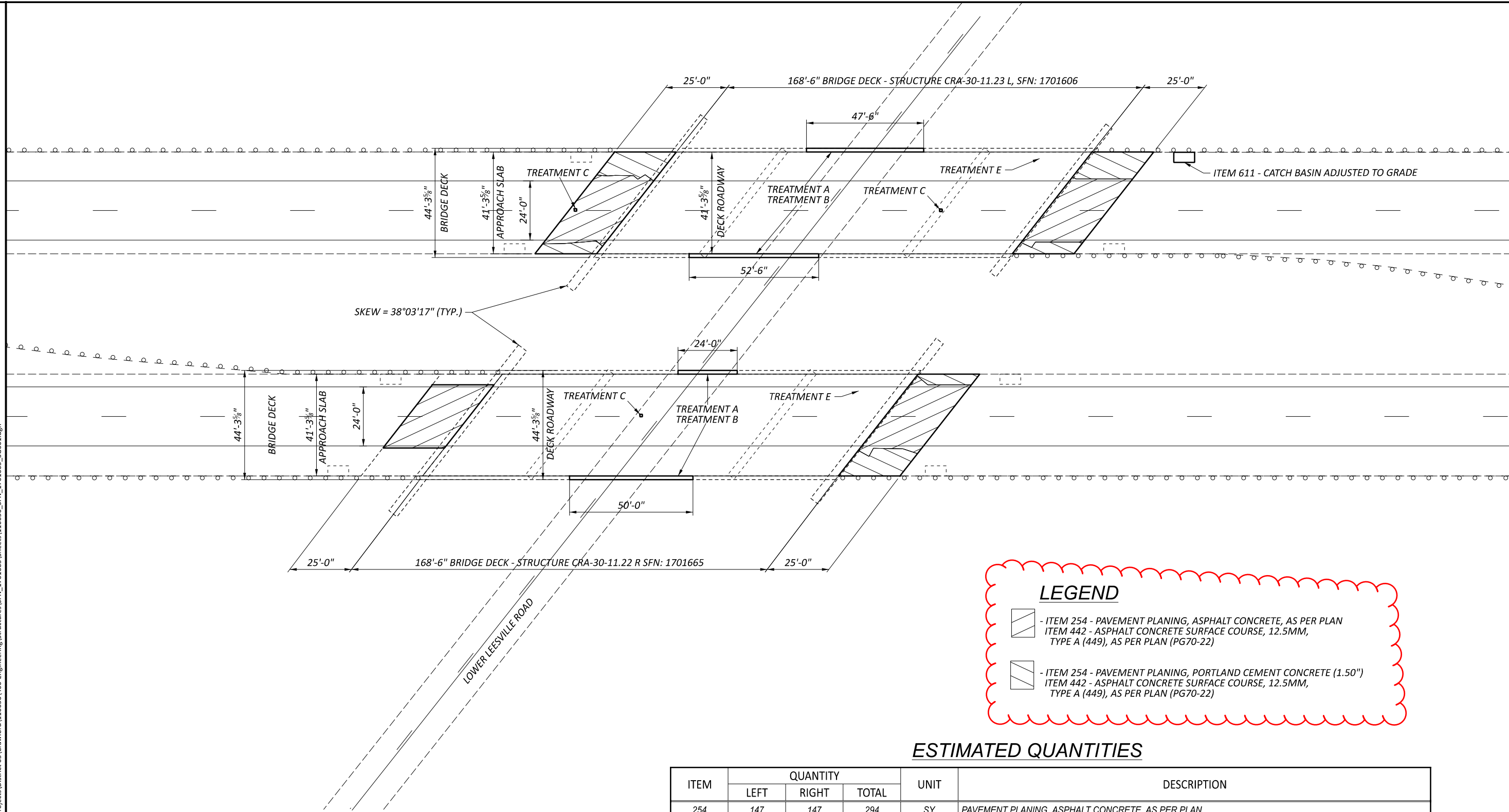
ESTIMATED QUANTITIES

ITEM	QUANTITY			UNIT	DESCRIPTION
	LEFT	RIGHT	TOTAL		
254	135	708	843	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
254	51	40	91	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")
407	15	60	75	GAL	TACK COAT 702.13 (2.08 GAL/SY)
442	6	32	38	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)
512	23	55	78	SY	SEALING OF CONCRETE SURFACES (EPOXY URETHANE), AS PER PLAN
202	3	6	9	CY	PORTIONS OF STRUCTURE REMOVED
511	3	6	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
621	2	2	4	EA	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN
202	126	126	252	FT	REMOVAL, MISC.: JOINT SEAL
516	126	126	252	FT	JOINT SEALER
512	1217	1217	2434	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY

STRUCTURE DETAILS
STRUCTURES CRA-30-10.90 R & CRA-30-10.92 L
CARRYING US 30 OVER CHICAGO & FORT WAYNE

SFN	1701649
SFN	1701630
DESIGN AGENCY	DISTRICT 3
ENGINEERING TEAM FOUR	
DESIGNER	JLB
CHECKER	JNC
REVIEWER	NRF
PROJECT ID	116650
SUBSET	4
TOTAL	7
SHEET	P.40
TOTAL	49



LEGEND

- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
 ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)
- ITEM 254 - PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")
 ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)

ESTIMATED QUANTITIES

ITEM	QUANTITY			UNIT	DESCRIPTION
	LEFT	RIGHT	TOTAL		
254	147	147	294	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN
254	83	40	123	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1.50")
407	19	15	34	GAL	TACK COAT, 702.12 (0.08 GAL/SY)
442	7	8	15	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN (PG70-22)
512	33	25	58	SY	SEALING OF CONCRETE SURFACES (EPOXY URETHANE), AS PER PLAN
202	4	3	7	CY	PORTIONS OF STRUCTURE REMOVED
511	4	3	7	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
621	2	1	3	EA	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN
512	774	774	1548	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN
611	1		1	EACH	CATCH BASIN ADJUSTED TO GRADE

ALL QUANTITIES CARRIED TO STRUCTURE SUMMARY

STRUCTURE DETAILS
STRUCTURES CRA-30-11.22 R & CRA-30-11.23 L
CARRYING US 30 OVER OLD LINCOLN HIGHWAY

SFN	1701665
SFN	1701606
DESIGN AGENCY	DISTRICT 3
ENGINEERING TEAM FOUR	
DESIGNER	CHECKER
JLB	JNC
REVIEWER	
NRF	09/22/23
PROJECT ID	116650
SUBSET	TOTAL
5	7
SHEET	TOTAL
P.41	49