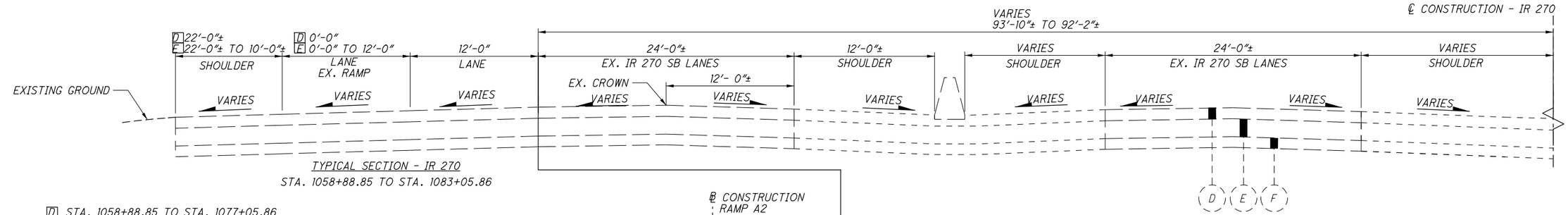
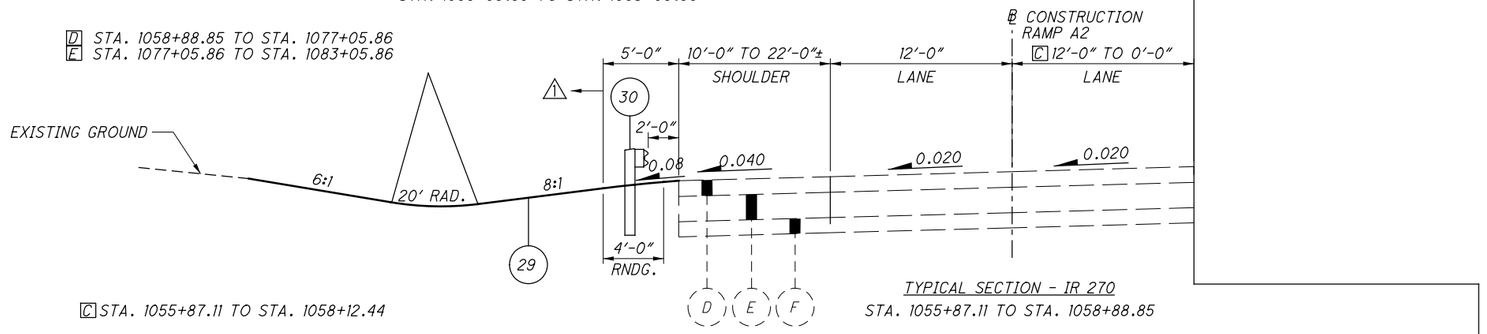
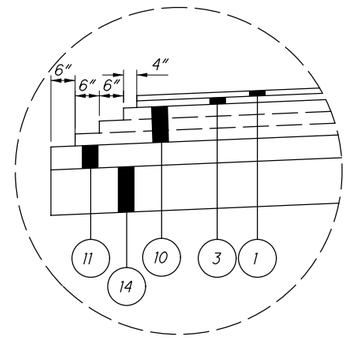


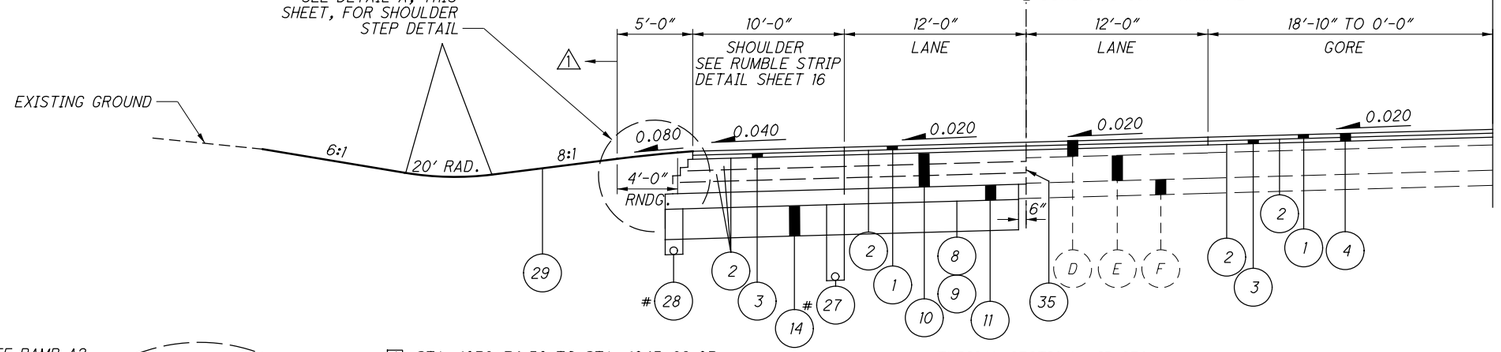
TYPICAL SECTION - IR 270
STA. 1058+88.85 TO STA. 1083+05.86



TYPICAL SECTION - IR 270
STA. 1055+87.11 TO STA. 1058+88.85

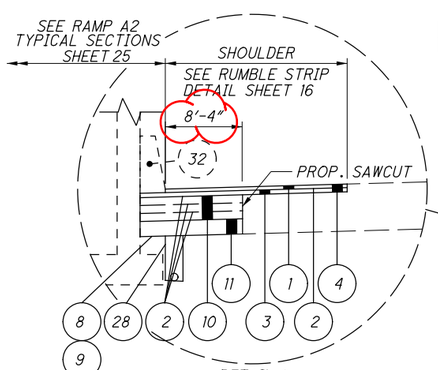


DETAIL A - SHOULDER STEP DETAIL

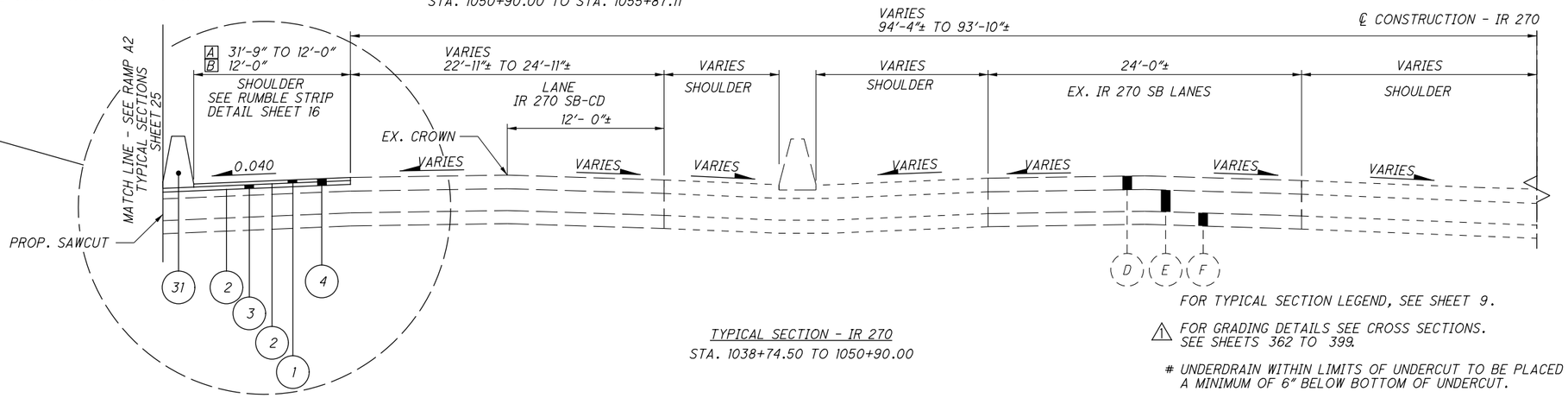


TYPICAL SECTION - IR 270
STA. 1050+90.00 TO STA. 1055+87.11

A STA. 1038+74.50 TO STA. 1045+89.03
B STA. 1045+89.03 TO STA. 1050+90.00



DETAIL 1
STA. 1038+74.50 TO STA. 1040+77.61



TYPICAL SECTION - IR 270
STA. 1038+74.50 TO 1050+90.00

FOR TYPICAL SECTION LEGEND, SEE SHEET 9.

⚠1 FOR GRADING DETAILS SEE CROSS SECTIONS. SEE SHEETS 362 TO 399.

UNDERDRAIN WITHIN LIMITS OF UNDERCUT TO BE PLACED A MINIMUM OF 6" BELOW BOTTOM OF UNDERCUT.

TYPICAL SECTIONS - IR 270

FRA-70-22.61

CALCULATED BPT CHECKED EMW

MAINTENANCE OF TRAFFIC NOTES

ITEM 614 - MAINTAINING TRAFFIC

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE PROJECT ENGINEER SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

ALL SIGNS, BARRACADES, SIGN SUPPORTS, DRUMS, FLAGGERS, WORK ZONE TRAFFIC SIGNALS AND INCIDENTALS FOR TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN CONFORMANCE WITH THE MOST RECENT REVISIONS, CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD). ALL SIGNS USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE NEW OR LIKE NEW CONDITION SUBJECT TO THE APPROVAL OF THE ENGINEER. DEVICES USED TO MAINTAIN TRAFFIC SHALL BE REMOVED IMMEDIATELY AFTER THE TERMINATION OF SAID WORK. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

FOR WORK WHICH IS CONFINED TO THE SHOULDER, TRAFFIC CONTROL SHALL CONFORM TO FIGURES TA-1, TA-3, TA-4, AND TA-6 OF THE OMUTCD AND SCD MT-95.45. IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER HAS THE AUTHORITY TO SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

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

NOTIFICATON OF CONSTRUCTION INITIATION

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION VIA EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

LANE CLOSURE/REDUCTION REQUIRED

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

PRE-MAINTENANCE OF TRAFFIC MEETING

A PRE-MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD (MINIMUM OF 10 WORK DAYS) PRIOR TO WORK BEGINNING OR ANY CHANGE OF PHASING. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER (d06.mot@dot.ohio.gov) AS WELL AS THE CONTRACTOR AND ANY OF HIS SUB-CONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL. FOR COLUMBUS SECTIONS OF ROADWAY, ALSO INCLUDE THE TEMPORARY TRAFFIC CONTROL COORDINATOR (614-645-6269 OR 614-645-5845) FROM THE CITY OF COLUMBUS TRANSPORTATION DIVISION.

WEEKLY MAINTENANCE OF TRAFFIC MEETING

AFTER THE INITIAL PRE-MAINTENANCE OF TRAFFIC MEETING, THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER ON A WEEKLY BASIS TO GO OVER A DETAILED MAINTENANCE OF TRAFFIC REPORT OF AT LEAST 7 CALENDAR DAYS. THIS MEETING SHOULD BE HELD ON THE SAME DAY AND TIME OF EACH WEEK.

THE CONTRACTOR WILL PROVIDE TO THE PROJECT ENGINEER A WRITTEN DETAIL OF THE INFORMATION REQUIRED BY THE NOTIFICATION OF TRAFFIC RESTRICTIONS NOTE PRIOR TO THE MEETING.

IN ADDITION TO THE DETAILED MAINTENANCE OF TRAFFIC REPORT THE CONTRACTOR SHALL GIVE A GENERAL LOOK AHEAD OF AN ADDITIONAL 2 WEEKS OF UPCOMING WORK ACTIVITES. THIS WILL INCLUDE ANY NOTIFICATION REQUIREMENTS FOR RESTRICTIONS THAT HAVE A DURATION GREATER THAN 12 HOURS.

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTIFICATION OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

DUST CONTROL

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

ITEM 616 - WATER 1007 M. GAL.

ITEM 614 MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

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

THE PERIOD OF TIME THAT THE 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
THURSDAY (THANKSGIVING ONLY)	6:00AM 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 PER THE LANE VALUE CONTRACT (PN 127).

NOTIFICATON OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

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

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO PERMITS AND PIO
RAMP AND ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/ RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORSEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

DRUM REQUIREMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED. DRUMS SHALL ALSO BE DOUBLE BALLASTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

ITEM 614 - REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDNACE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANITY OF 50 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - REPLACEMENT DRUM

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 300 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

FLOODLIGHTING

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

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC FOR MARKING PAVEMENT REPAIRS

PROVIDE LANE CLOSURES AS PER THE MAINTENANCE OF TRAFFIC NOTES IN THESE PLANS A MINIMUM OF 24 HOURS PRIOR TO PERFORMING PAVEMENT REPAIRS TO ALLOW THE ENGINEER TO IDENTIFY AND MARK THE AREAS OF THE PAVEMENT IN NEED OF REPAIRS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, LEO HOURS, AND INCIDENTALS NEEDED TO PERFORM THE ABOVE LISTED WORK IS CONSIDERED INCIDENTAL TO MAINTANING TRAFFIC ON THE PROJECT AND WILL BE INCLUDED IN THE LUMP SUM BID PROCE FOR ITEM 614 MAINTAINING TRAFFIC.

FRA-70-22.61

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 MT101.70.

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 MT101.70.

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

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY OR BI-DIRECTIONAL) 2425 EACH
ITEM 614, OBJECT MARKER, ONE-WAY 832 EACH
ITEM 614, INCREASED BARRIER DELINEATION 41560 FEET

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.

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET WITH A 25 FOOT OFFSET FROM THE BARRIER REFLECTORS.

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

ITEM 614, BARRIER REFLECTOR, TYPE 2, ONE-WAY 497 EACH
ITEM 614, OBJECT MARKER, ONE-WAY497 EACH

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

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

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

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

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

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

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

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

AN ESTIMATED QUANTITY HAS BEEN PROVIDED IN THE MAINTENANCE OF TRAFFIC SUBSUMMARY.

ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT

IN ADDTION TO THE REQUIREMENT OF ITEM 614 THE PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 807 PAINT.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER FT, INSTALLED AND MAINTAINED.

LANE VALUE CONTRACT TABLE

THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME A LANE/SHOULDER/RAMP IS CLOSED BY THE CONTRACTOR'S ACTION WHILE NOT OTHERWISE PERMITTED BY THE LANE VALUE CONTRACT TABLE.

LANE VALUE CONTRACT TABLE

Section (SLM)	Existing Number of Lanes per Direction	Lane closures are NOT permitted:				Disincentive Amounts per minute per lane
		Lane Reduction	Mon to Fri	Sat	Sun	
FRA-70						
College Avenue (18.67) to Hamilton Road (21.33)	3	3 to 2	5AM-7PM	No Restriction	No Restriction	$305
		3 to 1	5AM-10PM	8AM-11PM	8AM-11PM	$305
Hamilton Road (21.33) to I-270 (East) (22.34)	3	3 to 2	5AM-7PM	3PM-6PM	3PM-6PM	$335
		3 to 1	5AM-10PM	6AM-9PM	6AM-9PM	$335
I-270 (East side) (22.34 to23.17)	2	2 to 1	5AM-11PM	6AM-10PM	6AM-10PM	$380
I-270 (East) (23.17) to Brice Road (24.27)	3	3 to 2	5AM-8PM	10AM-7PM	10AM-7PM	$460
		3 to 1	5AM-12M	7AM-11PM	7AM-11PM	$460
Brice Road (24.27) to Fairfield County line(24.94)	3	3 to 2	5AM-7PM	7AM-7PM	7AM-7PM	$370
		3 to 1	5AM-10PM	6AM-11PM	6AM-11PM	$370
FAI-70						
Franklin County line (0.00) to SR-256 (1.19)	3	3 to 2	5AM-7PM	7AM-7PM	7AM-7PM	$370
		3 to 1	5AM-10PM	6AM-11PM	6AM-11PM	$370
Short term shoulder closures are permitted any time except 5AM-9AM and 3PM-6PM Monday-Friday.						

LANE VALUE CONTRACT TABLE

Section (SLM)	Existing Number of Lanes per Direction	Lane closures are NOT permitted:				Disincentive Amounts per minute per lane
		Lane Reduction	Mon to Fri	Sat	Sun	
FRA-270						
SR 317 (37.36) to US 40 (40.90)	4	4 to 3	5AM-9AM & 3PM-7PM	No Restriction	No Restriction	$290
		4 to 2	5AM-8PM	7AM-9AM & 2PM-7PM	7AM-9AM & 2PM-7PM	$290
		4. to 1	5AM-11PM	6AM-10PM	6AM-10PM	$290
US 40 (40.90) to Livingston Avenue (42.13) Main line	2	2 to 1	5AM-8PM	6AM-7PM	6AM-7PM	$220
US 40 (40.90) to Livingston Avenue (42.13) Collector Distributor	4	4 to 3	5AM-9AM & 3PM-7PM	No Restriction	No Restriction	$185
		4 to 2	5AM-8PM	7AM-9AM & 2PM-7PM	7AM-9AM & 2PM-7PM	$185
		4 to 1	5AM-11PM	6AM-10PM	6AM-10PM	$185
Livingston Avenue (42.13) to Noe Bixby Road (43.65) Main line	2	2 to 1	5AM-8PM	6AM-7PM	6AM-7PM	$250
Livingston Avenue (42.13) to Noe Bixby Road (43.65) Collector Distributor	2	2 to 1	5AM-11PM	6AM-10PM	6AM-10PM	$250
Noe Bixby Road (43.65) to north of Winchester Pike (45.49)	3	3 to 2	3PM-6PM	No Restriction	No Restriction	$190
		3 to 1	5AM-8PM	6AM-7PM	6AM-7PM	$190
Short term shoulder closures are not permitted 5AM-9AM and 3PM-7PM Monday-Friday.						

CALCULATED BPT CHECKED EMW

MAINTENANCE OF TRAFFIC NOTES

FRA-70-22.61

ITEM	EXTENSION	TOTAL FROM SHEET					TOTAL	UNIT	DESCRIPTION	SEE SHEET
		55	56	57	58	59				
202	35100			68			68	FT	PIPE REMOVED, 24" AND UNDER	
611	04400			68			68	FT	12" CONDUIT, TYPE B	
614	11000						LS		MAINTAINING TRAFFIC	46
614	11110						1000	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	50
614	11630						41560	FT	INCREASED BARRIER DELINEATION	47
614	12380						33	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	51
614	12420						LS		DETOUR SIGNING	
614	12484						42	EACH	WORK ZONE INCREASED PENALTIES SIGN	50
614	12500						50	EACH	REPLACEMENT SIGN	46
614	12600						300	EACH	REPLACEMENT DRUM	46
614	12801						2487	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	47
614	13310						2425	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	47
614	13312						497	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	47
614	13350						1329	EACH	OBJECT MARKER, ONE WAY	47
614	18601						2	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	49
614	20056	0.43	1.93	2.82	4.77	4.77	14.72	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
614	21050	0.81					0.81	MILE	WORK ZONE CENTER LINE, CLASS I, 807 PAINT, DOUBLE SOLID	
614	22056	1.81	3.88	2.10	3.82	3.76	15.37	MILE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	
614	22056	1.08	3.98	1.88	3.96	3.19	14.09	MILE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	
614	23110	4898	16160	8727	9886	6846	46517	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
614	24102	907			2290	12110	15307	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
614	25200	397	294	399	126		1216	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
614	98000				0.05	3.10	3.15	MILE	WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT	48
614	98000	0.94			0.09		1.03	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 642 PAINT, WHITE	48
614	98000	0.02					0.02	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW	48
614	98100				394		394	FT	WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT	48
614	98100	69					69	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I	48
614	98100	1659	1703	977	1308		5647	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12" 807 PAINT	47
614	98100	12					12	FT	WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	48
615	10000						LS		ROADS FOR MAINTAINING TRAFFIC	47
615	25000						10106	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
616	10000						1007	MGAL	WATER	
622	41050						2	EACH	PORTABLE BARRIER, "Y" CONNECTOR	
622	41100	4050	8900	8640	14490	5480	41560	FT	PORTABLE BARRIER, UNANCHORED	
808	18700						120	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	49

TOTALS CARRIED TO GENERAL SUMMARY, SHEET 210

CALCULATED BPT
CHECKED EMW

MAINTENANCE OF TRAFFIC SUBSUMMARY

FRA-70-22.61

MAINTENANCE OF TRAFFIC PHASE 1 SUBSUMMARY

CALCULATED BPT | CHECKED EMW

FRA-70-22.61

REF NO.	SHEET NO.			LOCATION	STATION TO STATION			614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT (MILE)	614 WORK ZONE CENTER LINE, CLASS I, 807 PAINT, DOUBLE SOLID (MILE)	614 WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE (MILE)	614 WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW (MILE)	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT (FT)	614 WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT (FT)	614 WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12" 807 PAINT (FT)	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT (FT)	614 WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT (MILE)	614 WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 642 PAINT, WHITE (MILE)	614 WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5",740.06, TYPE I, YELLOW (MILE)	614 WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT (FT)	614 WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I (FT)	614 WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT (FT)	622 PORTABLE BARRIER, UNANCHORED (FT)			
		TO				TO																			
				PHASE 1																					
ELW-1	68	TO	81	RAMP	2055+25.00	TO	1083+09.00			1.54															
PB-1	70	TO	70	RAMP	100+31.00	TO	103+31.00																	320	
ELW-2	70	TO	72	RAMP	1016+93.00	TO	104+31.00			0.18															
PB-1	70	TO	70	IR-70	531+49.00	TO	534+89.00																	340	
CH-1	72	TO	73	IR-270	1028+17.00	TO	1039+89.00					1156													
ELY-1	73	TO	75	IR-270	1031+17.00	TO	1069+97.00				0.73														
ELW-3	73	TO	73	IR-270	1031+17.00	TO	1035+92.00			0.09															
CH-2	73	TO	74	IR-270	1035+92.00	TO	1046+00.00					990													
CV-1	73	TO	73	IR-270	1035+92.00	TO	1043+09.00								397										
CH-3	73	TO	73	IR-270	1035+94.00	TO	1043+09.00					704													
ELY-2	73	TO	81	RAMP	1035+94.00	TO	2039+08.00				0.35														
PB-3	73	TO	81	RAMP	2035+10.00	TO	1059+29.00																	3390	
LL-1	73	TO	75	IR-270	1039+89.00	TO	1062+75.00	0.43																	
DL-1	74	TO	75	IR-270	1046+00.00	TO	1062+75.00							1659											
CH-4	75	TO	76	IR-270	1062+75.00	TO	1073+98.00					1024													
CH-5	75	TO	76	IR-270	1062+75.00	TO	1073+98.00					1024													
DL6-1	76	TO	77	IR-270	1077+05.00	TO	1086+12.00						907												
ELW-4	82	TO	83	SCARBOROUGH BLVD	30+29.07	TO	36+00.00											0.12							
CL-1	82	TO	87	SCARBOROUGH BLVD	30+29.07	TO	55+67.00		0.49																
ELW-5	82	TO	87	SCARBOROUGH BLVD	30+29.07	TO	55+67.00											0.49							
DL6-1	87	TO	87	SCARBOROUGH BLVD	55+67.00	TO	56+33.00															69			
ELY-3	87	TO	87	SCARBOROUGH BLVD	56+33.00	TO	57+12.00												0.02						
				PHASE 1A																					
ELW-6	90	TO	91	SCARBOROUGH BLVD	29+68.00	TO	37+00.00											0.14							
CL-2	90	TO	93	SCARBOROUGH BLVD	29+68.00	TO			0.32																
ELW-7	91	TO	93	SCARBOROUGH BLVD	39+36.00	TO	47+70.00											0.16							
SL-1	93	TO	93	SCARBOROUGH BLVD	46+44.00	TO	46+44.00																12		
ELW-8	93	TO	93	SCARBOROUGH BLVD	55+59.00	TO	56+66.00											0.03							
TOTALS CARRIED TO SUMMARY SHEET			54					0.43	0.81	1.81	1.08	4898	907	1659	397		0.94	0.02		69	12	4050			

MAINTENANCE OF TRAFFIC PHASE 3 SUBSUMMARY

CALCULATED BPT | CHECKED EMW

REF NO.	SHEET NO.			LOCATION	STATION TO STATION			202 PIPE REMOVED, 24" AND UNDER	611 12" CONDUIT, TYPE B	614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	614 WORK ZONE CENTER LINE, CLASS I, 807 PAINT, DOUBLE SOLID	614 WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	614 WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	614 WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12" 807 PAINT	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 642 PAINT, WHITE	614 WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5",740.06, TYPE I, YELLOW	614 WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I	614 WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	622 PORTABLE BARRIER, UNANCHORED	
		TO				TO		FT	FT	MILE	MILE	MILE	MILE	FT	FT	FT	FT	MILE	MILE	MILE	FT	FT	FT	FT	
				PHASE 3																					
ELW-1	121	TO	121	RAMP	506+60.00	TO	510+11.00					0.08													
CH-1	121	TO	146	RAMP	505+90.00	TO	996+21.00							621											
CV-1	121	TO	121	RAMP	508+41.00	TO	996+00.00										134								
CH-2	121	TO	121	RAMP	508+41.00	TO	510+21.00							215											
ELY-1	123	TO	134	IR-70	526+81.00	TO	596+69.00						1.33												
CH-3	123	TO	122	IR-70	523+81.00	TO	535+84.00							1204											
CH-4	123	TO	122	IR-70	526+81.00	TO	535+84.00							905											
ELW-2	123	TO	122	IR-70	526+81.00	TO	532+86.00					0.12													
CH-5	123	TO	122	IR-70	532+86.00	TO	107+68.51							233											
LL-1	123	TO	134	IR-70	535+84.00	TO	588+69.00			1.01															
LL-2	123	TO	134	IR-70	535+84.00	TO	588+69.00			1.01															
LL-3	123	TO	133	IR-70	535+19.00	TO	577+35.00			0.8															
ELY-2	123	TO	122	RAMP	100+00.00	TO	105+41.00						0.11												
ELW-3	123	TO	133	IR-70	100+00.00	TO	578+25.00					0.97													
CH-6	123	TO	122	RAMP	105+41.00	TO	107+68.51							226											
PB-1	123	TO	122	RAMP	106+95.00	TO	107+35.00																	40	
PB-2	123	TO	131	IR-70	535+49.00	TO	552+13.00																	1670	
DT101	123	TO	123	RAMP				68	68																
PB-3	131	TO	131	IR-70	552+03.00	TO	558+63.00																	660	
PB-4	131	TO	149	IR-70	559+83.00	TO	9+88.00																	3430	
DL-1	132	TO	133	IR-70	572+26.00	TO	576+47.00									420									
CH-7	133	TO	133	IR-70	576+47.00	TO	580+23.00							375											
CH-8	133	TO	133	RAMP C1	576+47.00	TO	578+25.00							179											
DL-2	133	TO	133	RAMP G2	577+35.00	TO	582+92.00									557									
ELW-4	133	TO	133	RAMP G2	580+23.00	TO	587+61.00					0.14													
CH-9	133	TO	134	IR-70	582+92.00	TO	589+02.00							610											
CH-10	133	TO	134	RAMP G2	582+92.00	TO	589+12.00							621											
CH-11	134	TO	134	IR-70	588+69.00	TO	599+69.00							1100											
CH-12	134	TO	134	RAMP G1	588+69.00	TO	599+69.00							1100											
ELW-5	134	TO	134	IR-70	591+69.00	TO	596+69.00					0.15													
PB-5	134	TO	134	IR-70	589+02.00	TO	591+69.00																	260	
PB-6	134	TO	155	RAMP G1	589+02.00	TO	8599+07.00																	720	
ELY-3	134	TO	155	RAMP G1	589+12.00	TO	8600+01.00						0.15												
PB-7	134	TO	134	IR-70	596+69.00	TO	598+93.00																	230	
PB-8	134	TO	155	RAMP G2	1107+73.00	TO	1115+46.00																	790	
ELY-4	134	TO	155	RAMP G2	1106+89.00	TO	1115+46.00						0.17												
CH-13	134	TO	134	RAMP G2	1115+46.00	TO	1116+42.00							110											
ELW-6	140	TO	141	RAMP A2	2006+61.00	TO	2986+80.71					0.16													
ELY-5	140	TO	140	RAMP A2	2006+61.00	TO	2012+47.00						0.12												
CH-14	140	TO	141	RAMP A2	2006+61.00	TO	2986+80.71							825											
CV-2	140	TO	141	RAMP A2	2006+61.00	TO	2986+80.71										265								
CH-15	140	TO	141	RAMP A2	2006+61.00	TO	2986+80.71							403											
ELW-7	146	TO	147	RAMP D2	996+21.00	TO	1021+09.00					0.48													
PB-9	147	TO	147	RAMP D2	1013+90.00	TO	1022+44.00																	840	
TOTALS CARRIED TO SUMMARY SHEET			54					68	68	2.82		2.10	1.88	8727		977	399							8640	

FRA-70-22.61

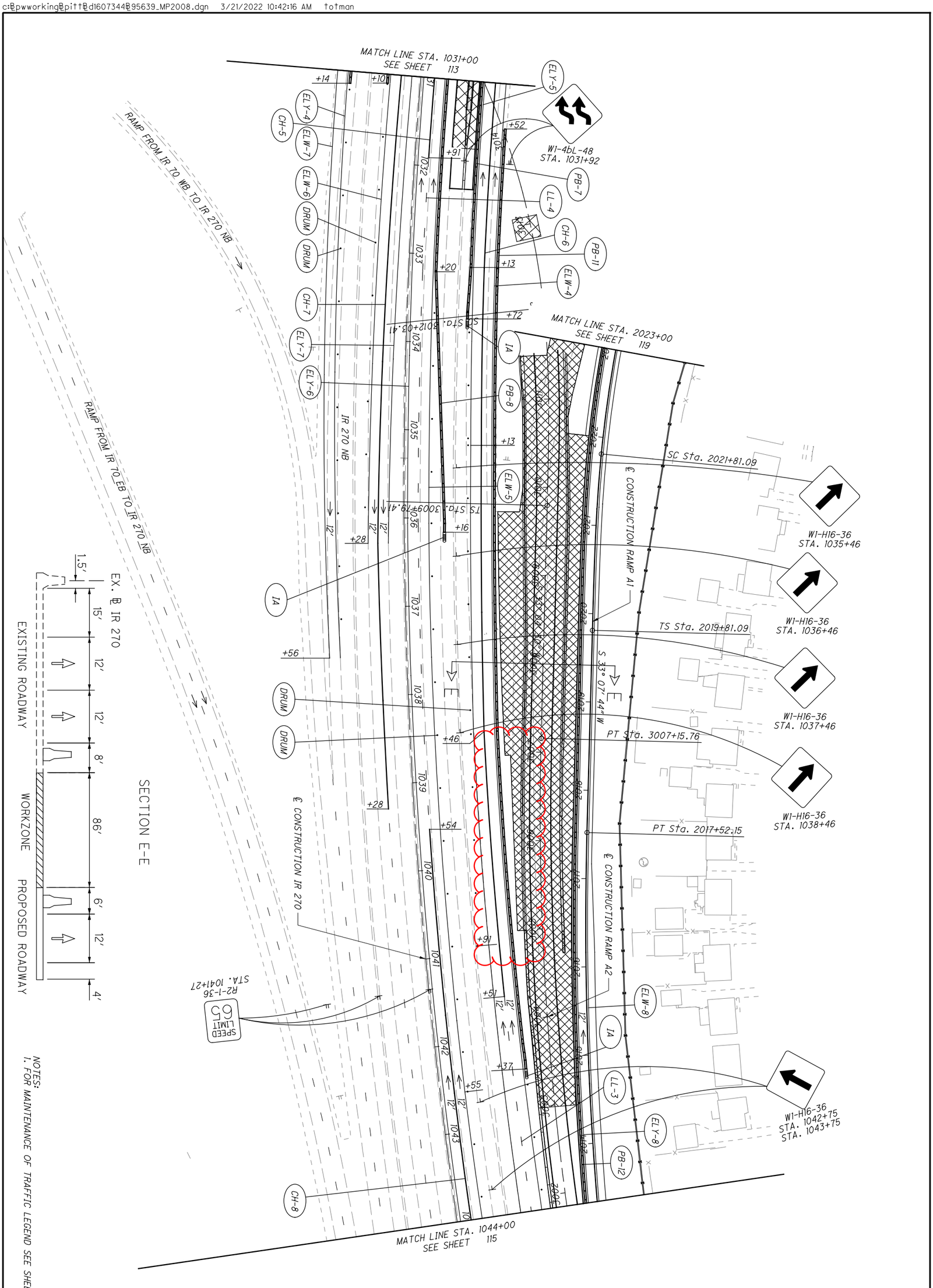
REF NO.	SHEET NO.			LOCATION	STATION TO STATION			614 WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	614 WORK ZONE CENTER LINE, CLASS I, 807 PAINT, DOUBLE SOLID	614 WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	614 WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	614 WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	614 WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12" 807 PAINT	614 WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 642 PAINT, WHITE	614 WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5",740.06, TYPE I, YELLOW	614 WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT	614 WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I	614 WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	622 PORTABLE BARRIER, UNANCHORED			
								MILE	MILE	MILE	MILE	FT	FT	FT	FT	MILE	MILE	MILE	FT	FT	FT	FT			
				PHASE 4																						
ELY-1	159	TO	171	IR-70	494+20.00	TO	644+05.00				2.87															
CH-1	159	TO	160	IR-70	491+24.00	TO	505+97.00					1381														
CH-2	159	TO	160	IR-70	497+20.00	TO	501+99.00					480														
CH-3	159	TO	160	IR-70	497+20.00	TO	499+89.00					269														
CV-1	159	TO	160	IR-70	497+20.00	TO	500+99.00								126											
LL-1	160	TO	170	IR-70	505+97.00	TO	638+15.00	2.53																		
ELW-1	160	TO	163	IR-70	501+99.00	TO	539+37.00			0.71																
PB-1	160	TO	161	IR-70	501+90.00	TO	522+29.00																		2040	
PB-2	160	TO	160	IR-70	501+90.00	TO	505+58.00																		390	
PB-3	162	TO	162	IR-70	531+59.00	TO	534+88.00																		320	
ELY-2	162	TO	174	RAMP	1016+93.00	TO	532+00.00				0.18															
PB-4	162	TO	162	RAMP	527+93.00	TO	531+02.00																		320	
LL-2	162	TO	176	RAMP A2	3011+50.00	TO	3033+20.00	0.4																		
CH-4	163	TO	164	IR-70	539+37.00	TO	549+36.00					1000														
CH-5	163	TO	164	RAMP	539+37.00	TO	549+36.00					1001														
ELW-2	163	TO	164	RAMP	539+37.00	TO	557+52.00			0.19																
LL-3	163	TO	176	RAMP C1	3011+50.00	TO	6033+97.00	0.15																		
DL6-1	163	TO	164	RAMP C1	6033+97.00	TO	6039+98.00						815													
ELW-3	163	TO	180	RAMP C1	6033+97.00	TO	8+31.00			0.93																
LL-4	164	TO	170	IR-70	549+36.00	TO	638+15.00	1.69																		
CH-6	164	TO	165	IR-70	557+52.00	TO	569+34.00					1182														
CH-7	164	TO	165	RAMP A2	557+52.00	TO	569+34.00					1182														
DL6-2	164	TO	165	RAMP A2	557+52.00	TO	564+77.00						815													
ELW-4	164	TO	180	RAMP A2	3041+72.00	TO	8599+00.00			0.83																
ELY-3	164	TO	180	RAMP C2	3048+17.00	TO	8+58.00				0.66															
DL-1	165	TO	166	IR-70	569+34.00	TO	582+92.00							1308												
PB-5	165	TO	180	IR-70	570+92.00	TO	8598+19.00																		2410	
PB-6	165	TO	180	RAMP C1	6059+55.00	TO	11+96.00																		3360	
CH-8	166	TO	167	RAMP G1	582+92.00	TO	590+51.00					760														
CH-9	166	TO	167	RAMP G1	582+92.00	TO	590+51.00					760														
ELW-5	167	TO	167	IR-70	590+51.00	TO	597+89.00			0.14																
ELY-4	167	TO	180	RAMP G1	590+51.00	TO	8599+65.00				0.13															
CH-10	167	TO	167	IR-70	597+89.00	TO	600+14.00					225														
CH-11	167	TO	167	RAMP G2	597+89.00	TO	600+14.00					226														
DL6-3	167	TO	168	IR-70	600+14.00	TO	506+74.00						660													
ELY-5	167	TO	180	RAMP G2	1107+76.00	TO	1113+84.00				0.12															
ELW-6	167	TO	180	RAMP G2	1107+76.00	TO	648+05.00			1.02																
PB-7	167	TO	180	RAMP G2	1106+16.00	TO	612+84.00																		2070	
PB-8	168	TO	169	IR-70	612+74.00	TO	619+34.00																		660	
PB-9	169	TO	171	IR-70	620+74.00	TO	641+05.00																		2060	
CH-12	170	TO	171	IR-70	638+15.00	TO	648+05.00					710														
CH-13	170	TO	171	IR-70	638+15.00	TO	648+05.00					710														
PB-11	174	TO	174	IR-270 SB	1013+74.00	TO	1017+56.00																		390	
PB-10	179	TO	180	BRICE RD	10+04.00	TO	14+63.00																		470	
ELW-7	179	TO	180	BRICE RD	9+28.00	TO	13+85.00											0.09								
LL-5	179	TO	180	BRICE RD	13+13.00	TO	10+53.00									0.05										
CH-14	180	TO	180	BRICE RD	6+96.00	TO	9+28.00													232						
CH-15	180	TO	180	BRICE RD	6+96.00	TO	8+58.00													162						
TOTALS CARRIED TO SUMMARY SHEET				54				4.77		3.82	3.96	9886	2290	1308	126	0.05	0.09		394					14490		

MAINTENANCE OF TRAFFIC PHASE 4 SUBSUMMARY

CALCULATED BPT
CHECKED EMW

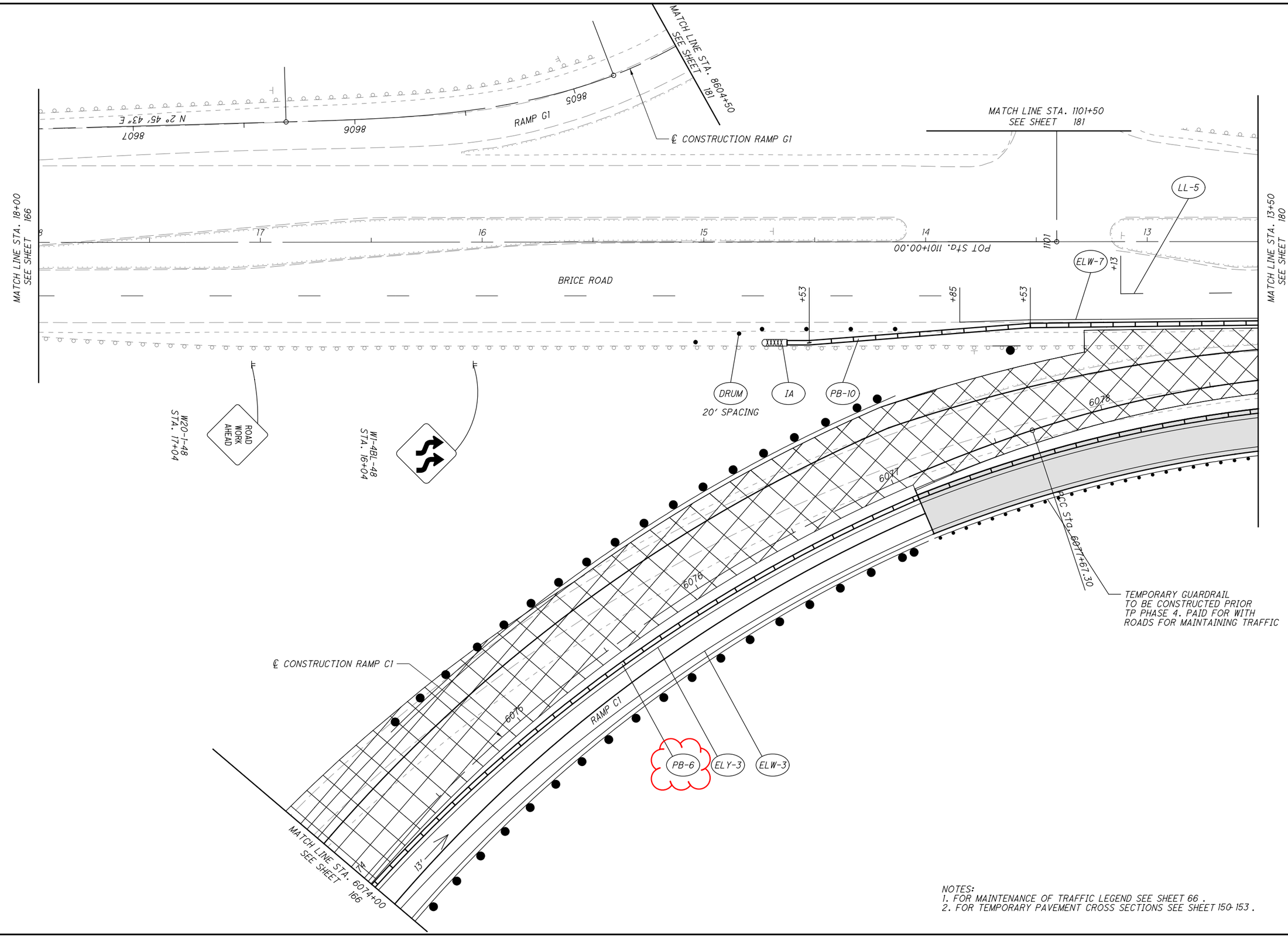
FRA-70-22.61

c:\pwworking\pitt\d1607344\95639_MP2008.dgn 3/21/2022 10:42:16 AM totman



NOTES:
1. FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 66 .

114 / 1199	FRA-70-22.61	MAINTENANCE OF TRAFFIC PLAN - PHASE 2 STA. 1031+00 TO STA. 1044+00	CALCULATED BPT CHECKED EMW	0 50 25 100 HORIZONTAL SCALE IN FEET



NOTES:
1. FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 66 .
2. FOR TEMPORARY PAVEMENT CROSS SECTIONS SEE SHEET 150-153 .

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED BPT
CHECKED EMW

MAINTENANCE OF TRAFFIC PLAN - PHASE 4
STA. 18+00 TO STA. 13+50

FRA-70-22.61

179
1199

SHEET NUM.																			PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
											45	54	212	234	235	236	246	751	01/IMS/PV						
																								ROADWAY	
																			LS	201	11000	LS		CLEARING AND GRUBBING	
																14			14	202	20010	14	EACH	HEADWALL REMOVED	
														49,493					49,493	202	23000	49,493	SY	PAVEMENT REMOVED	
													1,155						1,155	202	30700	1,155	FT	CONCRETE BARRIER REMOVED	
													9,895						9,895	202	32000	9,895	FT	CURB REMOVED	
												68				3,191			3,259	202	35100	3,259	FT	PIPE REMOVED, 24" AND UNDER	
																2,334			2,334	202	35200	2,334	FT	PIPE REMOVED, OVER 24"	
													3,956						3,956	202	38000	3,956	FT	GUARDRAIL REMOVED	
													25						25	202	38200	25	FT	GUARDRAIL REMOVED FOR REUSE	
													255						255	202	38300	255	FT	GUARDRAIL REMOVED, BARRIER DESIGN	
													14						14	202	42206	14	EACH	ANCHOR ASSEMBLY REMOVED	
													7						7	202	47000	7	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
													2						2	202	47800	2	EACH	IMPACT ATTENUATOR REMOVED	
													99						99	202	48000	99	FT	CABLE BARRIER REMOVED	
																12			12	202	58000	12	EACH	MANHOLE REMOVED	
																22			22	202	58100	22	EACH	CATCH BASIN REMOVED	
															17,895				17,895	202	75000	17,895	FT	FENCE REMOVED	
															2				2	202	75250	2	EACH	GATE REMOVED	
																	84,402	4,936	89,338	203	10000	89,338	CY	EXCAVATION	
																	166,395		166,395	203	20000	166,395	CY	EMBANKMENT	
																		1,580	1,580	203	22000	1,580	CY	EMBANKMENT, USING NATURAL SOILS, 703.16.A	
																	428		428	203	20001	428	CY	EMBANKMENT, AS PER PLAN	1001
											5								5	SPECIAL	20365000	5	EACH	SETTLEMENT PLATFORM	45
											1								1	203	98600	1	EACH	ROADWAY, MISC.: SETTLEMENT MONUMENTS	45
														124,889					124,889	204	10000	124,889	SY	SUBGRADE COMPACTION	
																	6,407		6,407	204	13000	6,407	CY	EXCAVATION OF SUBGRADE	
																	10,028		10,028	204	30020	10,028	CY	GRANULAR MATERIAL, TYPE C	
														66					66	204	45000	66	HOUR	PROOF ROLLING	

CALCULATED TJS CHECKED CO

GENERAL SUMMARY

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
			42	213	214	215	234	778	785	804	832	01/IMS/PV	02/IMS/BR						
																		PAVEMENT	
							19,571					19,571		254	01000	19,571	SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE DEPTH	
							19,597					19,597		255	20001	19,597	FT	FULL DEPTH PAVEMENT SAWING, AS PER PLAN	43
							19,394					19,394		301	46000	19,394	CY	ASPHALT CONCRETE BASE, PG64-22	
							10,204					10,204		302	46000	10,204	CY	ASPHALT CONCRETE BASE, PG64-22.	
							24,614					24,614		304	20000	24,614	CY	AGGREGATE BASE	
							7,225					7,225		305	12010	7,225	SY	8" CONCRETE BASE, CLASS QC 1P	
							24,072					24,072		407	20000	24,072	GAL	NON-TRACKING TACK COAT	
							45					45		441	50400	45	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
							60					60		441	50600	60	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS)	
							5,715					5,715		442	00100	5,715	CY	ANTI-SEGREGATION EQUIPMENT	
							2,127					2,127		442	10001	2,127	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	43
							5,625					5,625		442	10100	5,625	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	
							2,173					2,173		442	10301	2,173	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	43
							407					407		442	20000	407	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448)	
							407					407		442	20200	407	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	
							99					99		452	12010	99	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
							10,247					10,247		452	13010	10,247	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
			3.25									3.25		618	40600	3.25	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
							74					74		875	10000	74	LB	LONGITUDINAL JOINT ADHESIVE	
																		WATER WORK	
									86			86		SPECIAL	63820040	86	FT	6" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (COL. 801)	
									17			17		SPECIAL	63820080	17	FT	8" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (COL. 801)	
									2,712			2,712		SPECIAL	63820168	2,712	FT	12" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (COL. 801)	
									398			398		SPECIAL	63820464	398	FT	24" STEEL PIPE ENCASEMENT, BORED OR JACKED (COL. 806)	
									10			10		638	98000	10	EACH	WATER WORK, MISC.:6" WATCH VALVE WITH VALVE BOX (COL. 802)	783
									2			2		SPECIAL	63820554	2	EACH	8" GATE VALVE WITH VALVE BOX (COL. 802)	
									6			6		SPECIAL	63820586	6	EACH	12" GATE VALVE WITH VALVE BOX (COL. 802)	
									10			10		SPECIAL	63820750	10	EACH	6" FIRE HYDRANT (COL. 809)	
									1			1		SPECIAL	63821400	1	EACH	FIRE HYDRANT ADJUSTED TO GRADE (COL. 810)	
																		SANITARY SEWER	
								498				498		611	03100	498	FT	10" CONDUIT, TYPE B	
								2				2		611	99574	2	EACH	MANHOLE, NO. 3 (SANITARY)	
								2				2		611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE (SANITARY)	
								406				406		SPECIAL	63820464	406	FT	24" STEEL PIPE ENCASEMENT, BORED OR JACKED (COL. 806)	
																		LIGHTING	
																		FOR LIGHTING ESTIMATED QUANTITIES, SEE SHEET 940	
																		TRAFFIC CONTROL	
				55	15							70		626	00102	70	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
				55	238	15						237	71	626	00102	308	EACH	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL	
				9								9		626	00110	9	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	
				29	101	16						146		626	00110	146	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL	
						1						1		626	00118	1	EACH	BARRIER REFLECTOR, TYPE 6, BI-DIRECTIONAL	
																		FOR SIGNING ESTIMATED QUANTITIES, SEE SHEET 850A	
																		FOR PAVEMENT MARKING ESTIMATED QUANTITIES, SEE SHEET 850A	
																		TRAFFIC SIGNALS	
																		FOR TRAFFIC SIGNAL & ITS ESTIMATED QUANTITIES, SEE SHEET 927	
																		RETAINING WALLS	
																		FOR RETAINING WALL I ESTIMATED QUANTITIES, SEE SHEET 755	
																		FOR RETAINING WALL J ESTIMATED QUANTITIES, SEE SHEET 764	
																		FOR RETAINING WALL K ESTIMATED QUANTITIES, SEE SHEET 769 & 775	
																		FOR RETAINING WALL B ESTIMATED QUANTITIES, SEE SHEET 1139	
																		FOR RETAINING WALL G-H ESTIMATED QUANTITIES, SEE SHEET 1140	
																		NOISE BARRIERS	
										79,340	21,400	100,740		SPECIAL	60610210	100,740	SF	NOISE BARRIER (REFLECTIVE)	799 & 831

CALCULATED TJS CHECKED CO

GENERAL SUMMARY

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SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
											54	215	01/IMS/PV						
																		STRUCTURE OVER 20 FOOT SPAN	
																		FOR BRIDGE NO. FRA-70-2374 ESTIMATED QUANTITIES, SEE SHEET 988	
																		FOR BRIDGE NO. FRA-270-4262 ESTIMATED QUANTITIES, SEE SHEET 1003	
																		FOR BRIDGE NO. FRA-270-4318C ESTIMATED QUANTITIES, SEE SHEET 1109	
																		MAINTENANCE OF TRAFFIC	
											1,000		1,000	614	11110	1,000	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
											41,560		41,560	614	11630	41,560	FT	INCREASED BARRIER DELINEATION	
											33	1	34	614	12380	34	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
											LS		LS	614	12420	LS		DETOUR SIGNING	
											42		42	614	12484	42	EACH	WORK ZONE INCREASED PENALTIES SIGN	
											50		50	614	12500	50	EACH	REPLACEMENT SIGN	
											300		300	614	12600	300	EACH	REPLACEMENT DRUM	
											2,487		2,487	614	12801	2,487	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	47
											2,425		2,425	614	13310	2,425	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
											497		497	614	13312	497	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
											1,329		1,329	614	13350	1,329	EACH	OBJECT MARKER, ONE WAY	
											2		2	614	18601	2	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	49
											14.72		14.72	614	20056	14.72	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
											0.81		0.81	614	21050	0.81	MILE	WORK ZONE CENTER LINE, CLASS I, 807 PAINT	
											29.46		29.46	614	22056	29.46	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
											46,517		46,517	614	23110	46,517	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
											15,307		15,307	614	24102	15,307	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
											1,216		1,216	614	25200	1,216	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
											1.03		1.03	614	98000	1.03	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 642 PAINT	48
											0.02		0.02	614	98000	0.02	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE 1	48
											3.15		3.15	614	98000	3.15	MILE	WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5", 642 PAINT	48
											69		69	614	98100	69	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE 1	48
											5,647		5,647	614	98100	5,647	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12", 807 PAINT	48
											394		394	614	98100	394	FT	WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10", 642 PAINT	48
											12		12	614	98100	12	FT	WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	48
											LS		LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
											10,106		10,106	615	25000	10,106	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
											1,007		1,007	616	10000	1,007	MGAL	WATER	
											2		2	622	41050	2	EACH	PORTABLE BARRIER, "Y" CONNECTOR	
											41,560		41,560	622	41100	41,560	FT	PORTABLE BARRIER, UNANCHORED	
												165	165	622	90000	165	FT	BARRIER, MISC.: PORTABLE BARRIER, UNANCHORED	43
											120		120	808	18700	120	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																		INCIDENTALS	
													LS	103	05000	LS		PREMIUM FOR CONTRACT PERFORMANCE BOND AND FOR PAYMENT BOND	
													LS	108	10000	LS		CPM PROGRESS SCHEDULE	
											LS		LS	614	11000	LS		MAINTAINING TRAFFIC	
													36	619	16020	36	MNTH	FIELD OFFICE, TYPE C	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

CALCULATED TJS CHECKED CO

GENERAL SUMMARY

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STATION TO STATION		SIDE	LENGTH L (FT)	AVERAGE WIDTH W (FT)	SURFACE AREA A=LxW (SF)	CADD MEASURED AREAS (SF)	202	204	204	254	255	301	304	407	407	442	442	442	
							PAVEMENT REMOVED	SUBGRADE COMPACTION	PROOF ROLLING	PAVEMENT PLANING, ASPHALT CONCRETE	FULL DEPTH PAVEMENT SAWING, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	NON-TRACKING TACK COAT	NON-TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	ANTI-SEGREGATION EQUIPMENT	
												13.5"	6"	0.06	0.09	1.75"	1.5"		
FROM	TO						SY	SY	HOUR	SY	FT	CY	CY	GAL	GAL	CY	CY	CY	
IR 270																			
979+14.42	981+39.00	RT	224.58	0.50	112					12	225			1		1	1		
				8.40	1886							79		50		10	9		
				2.98	669							12							
				11.88	2668			296.4	0				49						
						1742	194												
981+39.00	982+39.00	RT	100.00	0.50	50					6	106			1		0	0		
				6.50	650													7	
				15.00	1500							63		40		8	7		
				2.98	298							6							
				18.48	1848			205.3	0				34						
						995	111												
982+39.00	987+81.18	RT	542.18	6.00	3253					361	542			22	33	18	15		
				12.00	6506													65	
				14.00	7591							181		202		41	35		
				2.00	1084			120.5	0				20						
						2843	316												
987+81.18	990+45.51	RT	264.33	6.00	1586					176	264			11	16	9	7		
				14.00	3701													37	
				16.03	4237							110		56		23	20		
				4.03	1065			118.4	0				20						
						1438	160												
990+45.51	995+26.44	RT	480.93	7.62	3665					407	482			24	37	20	17		
				28.00	13466													135	
				29.34	14110							468		188		76	65		
				17.34	8339			926.6	0				154						
						1016	113												
978+28.25	980+00.00	RT	171.75	11.26	1934			214.9	0				36						
980+00.00	995+26.44	RT	1526.44	10.00	15264			1696.0	1				283						
1013+16.39	1018+93.81	LT	577.42			8039				893	256			54	80	43	37		
						3104	345												
1035+93.00	1038+74.50	LT	281.50	12.00	3378					375	282			23	34	18	16		
						7074	786												
1038+74.50	1040+77.61	LT	203.11			3250				361	218			22	33	18	15		
				1.67	339			37.6	0			14	6	4		2	2		
				8.33	1693		188	188.1	0			71	31	45		9	8		
1040+77.61	1050+90.00	LT	1012.39	13.00	13161					1462	1012			98	132	71	61		
				2.70	2731										27	15			
1050+90.00	1055+87.11	LT	497.11	12.00	5965			662.8	0		528	249	110	159		32	28		
				10.00	4971									33		27	23		
				10.33	5137							71		34					
				10.83	5385							75		36					
				11.33	5634							78		38					
				11.83	5882			653.6	0				109						
						11737				1304				78	117	63	54		
				24.00	11931													120	
						6057	673												
TOTALS CARRIED TO SUBSUMMARY SHEET 223							2885	5120	2	5359	3914	1475	853	1720		504	417	364	

CALCULATED TJS CHECKED CO

PAVEMENT SUBSUMMARY - IR 270

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STATION TO STATION		SIDE	LENGTH L (FT)	AVERAGE WIDTH W (FT)	SURFACE AREA A=LxW (SF)	CADD MEASURED AREAS (SF)	202	204	204	254	255	301	304	407	407	442	442	442	
							PAVEMENT REMOVED	SUBGRADE COMPACTION	PROOF ROLLING	PAVEMENT PLANING, ASPHALT CONCRETE	FULL DEPTH PAVEMENT SAWING, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	NON-TRACKING TACK COAT	NON-TRACKING TACK COAT	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	ANTI-SEGREGATION EQUIPMENT	
												13.5"	6"	0.06	0.09	1.75"	1.5"		
FROM	TO						SY	SY	HOUR	SY	FT	CY	CY	GAL	GAL	CY	CY	CY	
IR 270 (CONTINUED)																			
985+10.35	989+89.65	LT/RT				1779	198												
						2242				249				15	22	12	10		
						3192								21		17	15		
						3462							64						
						3998		444.2	0										
1028+16.18	1030+57.75	RT	241.57	24.50	5918												27		
			241.57	29.20	7054			783.8	0		568	294	131	188		38			
						6372	708												
1029+47.30	1032+24.05	LT	276.75	21.30	5895												27		
			276.75	25.60	7085			787.2	0		643	295	131	189		38			
						6447	716												
1054+53.66	1056+45.55	LT	191.89	5.30	1017												5		
			191.89	8.00	1535			170.6	0		392	64	28	41		8			
						1096	122												
SUBTOTALS THIS SHEET							1744	2185.8	1	249	1603	653	354	477		114	85	0	
TOTALS CARRIED FROM SUBSUMMARY SHEET 222							2885	5120	2	5359	3914	1475	853	1720		504	417	364	
TOTALS CARRIED TO SUBSUMMARY SHEET 234							4629	7306.1	4	5609	5518	2129	1208	2197		618	502	364	

CALCULATED TJS CHECKED CO

PAVEMENT SUBSUMMARY - IR 270

PAVEMENT

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STATION TO STATION		SIDE	LENGTH L (FT)	AVERAGE WIDTH W (FT)	SURFACE AREA A=LxW (SF)	CADD MEASURED AREAS (SF)	202	204	204	301	304	407	442	442	442						
							PAVEMENT REMOVED	SUBGRADE COMPACTION	PROOF ROLLING	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	ANTI-SEGREGATION EQUIPMENT						
										10.5	6"	0.06	1.25"	1.75"							
FROM	TO						SY	SY	HOUR	CY	CY	GAL	CY	CY	CY						
RAMP A1																					
2016+16.59	2017+70.14	LT/RT	153.55	33.60	5159								20								
				36.80	5650							38		31							
				37.13	5702					92		38									
				37.63	5778					94		39									
				38.13	5855			651	0.3		108										
				16.00	2457										23						
2017+70.14	2022+00.00	LT/RT	429.86	36.40	15647								60								
				38.07	16363			1818	0.9	265	303	327		88							
				16.00	6878										64						
2022+00.00	2031+00.00	LT/RT	900.00	26.00	23400							156	90	126							
				26.67	24000					389		160									
				27.67	24900					403		166									
				28.67	25800			2867	1.4		478										
				16.00	14400										133						
						31801	3533														
RAMP A2																					
2995+09.95	3004+72.03	LT/RT	962.08	0.00	50761	50761						338	196	274							
				0.33	51082					828		341									
				0.83	51883					841		346									
				1.33	53166			5907	3.0		985										
						32934									305						
2995+09.96	3012+04.22	LT/RT	1694.26			40683	4520														
3000+98.97	3004+72.03	RT	373.06	16.00	5969			663	0.3	193	111	119	23	32	55						
3004+72.03	3008+17.84	LT/RT	345.81	40.00	13832			1537	0.8	448	256	277	53	75							
				24.00	8299										77						
3008+17.84	3008+83.41	LT/RT	65.57	41.21	2702			300	0.2	88	50	54	10	15							
				24.00	1574										15						
3008+83.41	3011+05.33	LT/RT	221.92	44.50	9875			1097	0.5	320	183	198	38	53							
				24.00	5326										49						
3028+34.17	3030+79.11	LT/RT	244.94	43.50	10655			1184	0.6	345	197	213	41	58							
				25.50	6246										58						
3030+79.11	3030+99.11	LT/RT	20.00	44.00	880			98	0.1	29	16	18	3	5							
				24.00	480										4						
3030+99.11	3031+45.19	LT/RT	46.08	46.00	2120			236	0.1	69	39	42	8	11							
				24.00	1106										10						
3031+45.19	3038+44.46	LT/RT	699.27	29.33	20512			2279	1.1	665	380	410	79	111							
				12.00	8391										78						
3031+45.19	3037+07.37	LT	562.18	12.00	6746			750	0.4	219	125	135	26	36							
3037+07.37	3038+44.46	LT	137.09	9.25	1268			141	0.1	41	23	25	5	7							
3031+45.19	3037+69.15	LT	623.96	14.00	8735			971	0.5	283	162	175	34	47	81						
3037+69.15	3038+44.46	LT	75.31	16.00	1205			134	0.1	39	22	24	5	7	11						
3038+44.46	3038+57.64	LT/RT	13.18	30.25	399			44	0.1	13	7	8	2	2							
TOTALS CARRIED TO SUBSUMMARY SHEET			234				8054	20676	10.5	5664.0	3446	3647	694	979	963						

CALCULATED TJS
CHECKED CO

PAVEMENT SUBSUMMARY - RAMPS A1 & A2

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	202	204	204	254	255	301	302	304	305	407	441	441	442	442	442	442	442	442	452	452	608	875
	PAVEMENT REMOVED	SUBGRADE COMPACTION	PROOF ROLLING	PAVEMENT PLANING, ASPHALT CONCRETE	FULL DEPTH PAVEMENT SAWING, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22	ASPHALT CONCRETE BASE, PG64-22.	AGGREGATE BASE	8" CONCRETE BASE, CLASS QC IP	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS), (PG64-22)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS), (PG64-22)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), (PGTO-22M)	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	ANTI-SEGREGATION EQUIPMENT	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	8" CONCRETE SIDEWALK	LONGITUDINAL JOINT ADHESIVE
TOTALS CARRIED FROM SUBSUMMARY SHEET 221	17288	29599	14.8	12349	12489	2687	9326	6670		8820				1931	1621			2189				
TOTALS CARRIED FROM SUBSUMMARY SHEET 223	4629	7307	3.6	5609	5518	2129		1208		2197				618	502			364				
TOTALS CARRIED FROM SUBSUMMARY SHEET 224	8054	20676	10.5			5664		3446		3647			694	979				963				
TOTALS CARRIED FROM SUBSUMMARY SHEET 227		47747	24.4	101	310	8273		9721		7123			1295	1914				1998		5382		
TOTALS CARRIED FROM SUBSUMMARY SHEET 228	2165	725	1.0	675	556	252		121		261			46	65				36				74
TOTALS CARRIED FROM SUBSUMMARY SHEET 229	1106	4969	2.5					829												4865		
TOTALS CARRIED FROM SUBSUMMARY SHEET 231	1379	2777	1.4	837	724	241	878	765		777			92	118	50			165				
TOTALS CARRIED FROM SUBSUMMARY SHEET 233	14872	11089	7.8			148		1854	7225	1247	45	60				407	407		99		70	
TOTALS CARRIED TO GENERAL SUBSUMMARY	49493	124889	66.0	19571	19597	19394	10204	24614	7225	24072	45	60	2127	5625	2173	407	407	5715	99	10247	70	74

CALCULATED TJS
CHECKED CO

PAVEMENT SUBSUMMARY

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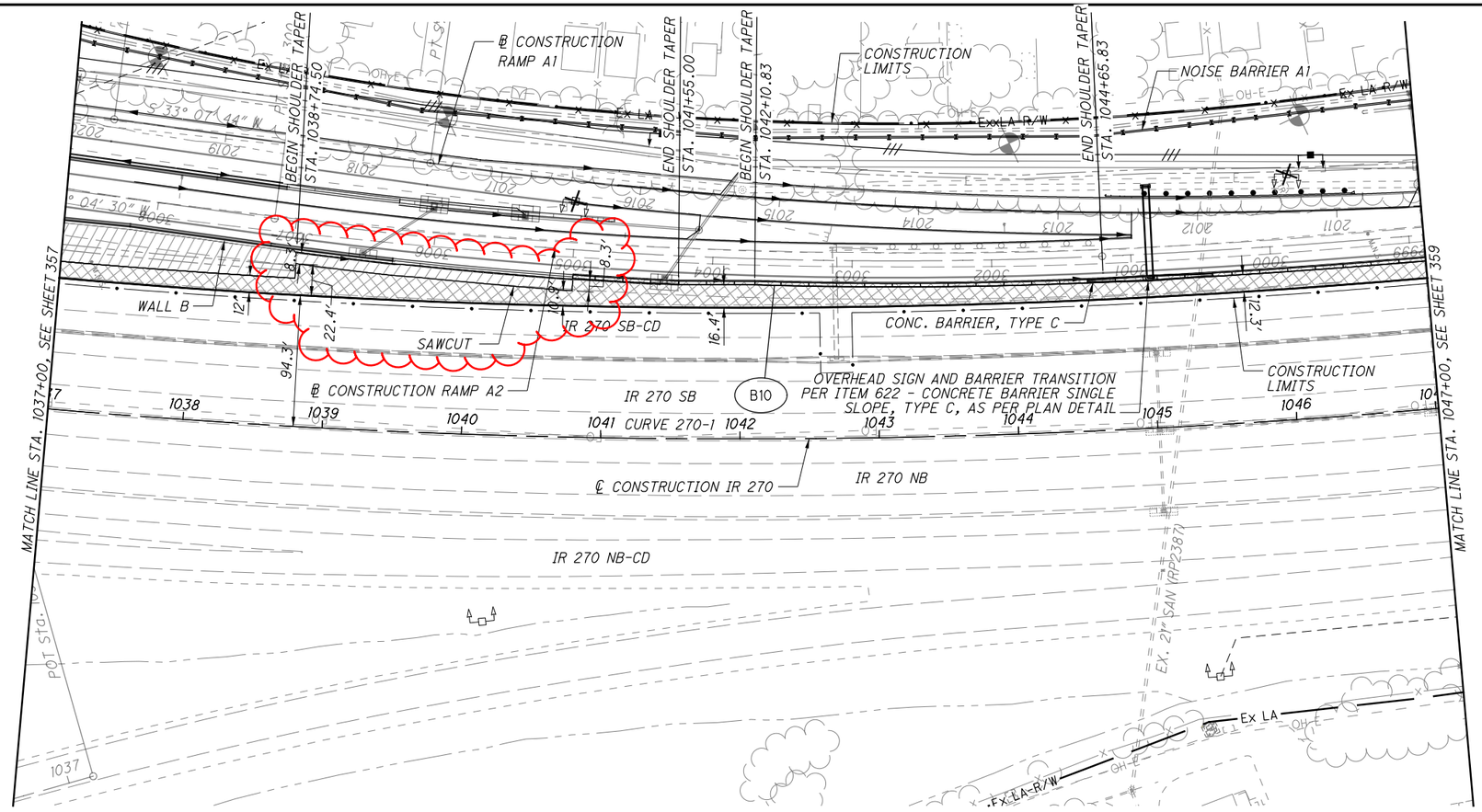
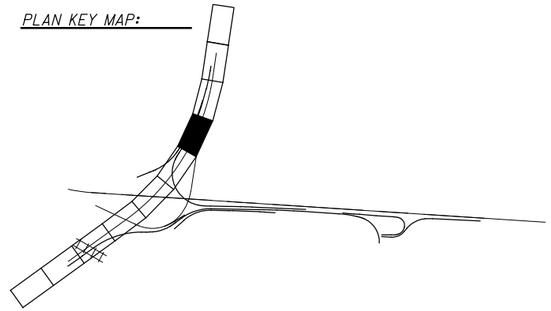


PLAN KEY MAP:



CROSS REFERENCES	
SHEET NO.	DESCRIPTION
3 - 7	℄ REFERENCE & BENCHMARKS
212 - 213	ESTIMATED QUANTITIES
362 - 399	IR 270 CROSS SECTIONS
400 - 406	RAMP A1 PLAN AND PROFILES
407 - 422	RAMP A1 CROSS SECTIONS
423 - 438	RAMP A2 PLAN AND PROFILES
439 - 466	RAMP A2 CROSS SECTIONS
703 - 753	DRAINAGE
701 - 702	GRADING PLAN
670 - 683	TERMINAL DETAILS

GEOMETRIC DATA:

℄ CONSTRUCTION IR 270
CURVE 270-1
P.I. Sta. 1036+65.35
Δ = 45° 38′ 24″ (LT)
Dc = 1° 00′ 00″
R = 5,729.58′
T = 2,410.85′
L = 4,564.00′
E = 486.55′
C = 4,444.29′
C.B. = N 31° 53′ 44″ E
eMAX = 0.033

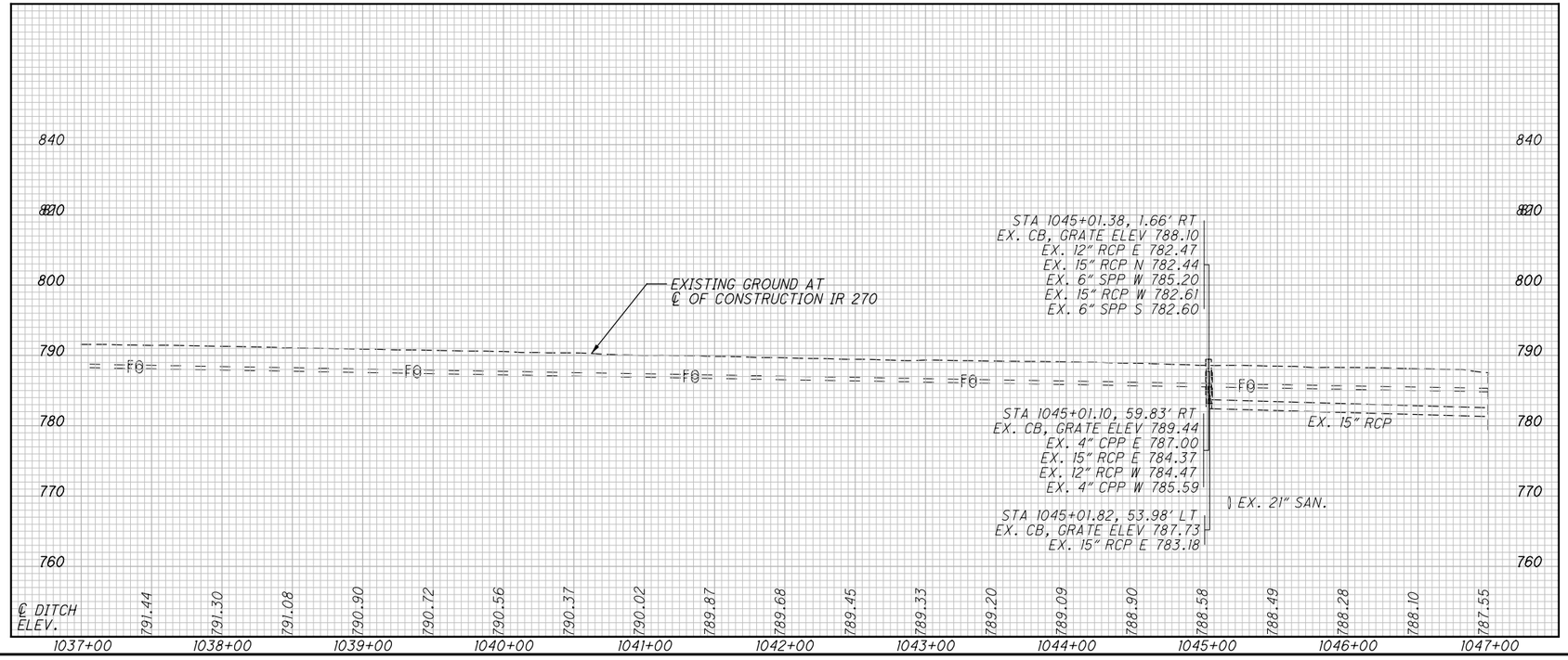
NOTES:

LEGEND:

PAVEMENT PLANING

PAVEMENT REMOVED

EXISTING WETLAND



HORIZONTAL SCALE IN FEET
0 25 50 100

CALCULATED RMP
CHECKED SJB

PLAN AND PROFILE - IR 270
STA. 1037+00 TO STA. 1047+00

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NOTES:

LEGEND:

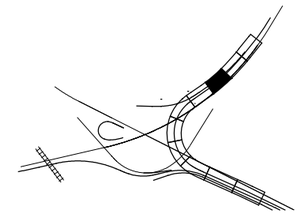
PAVEMENT REMOVED

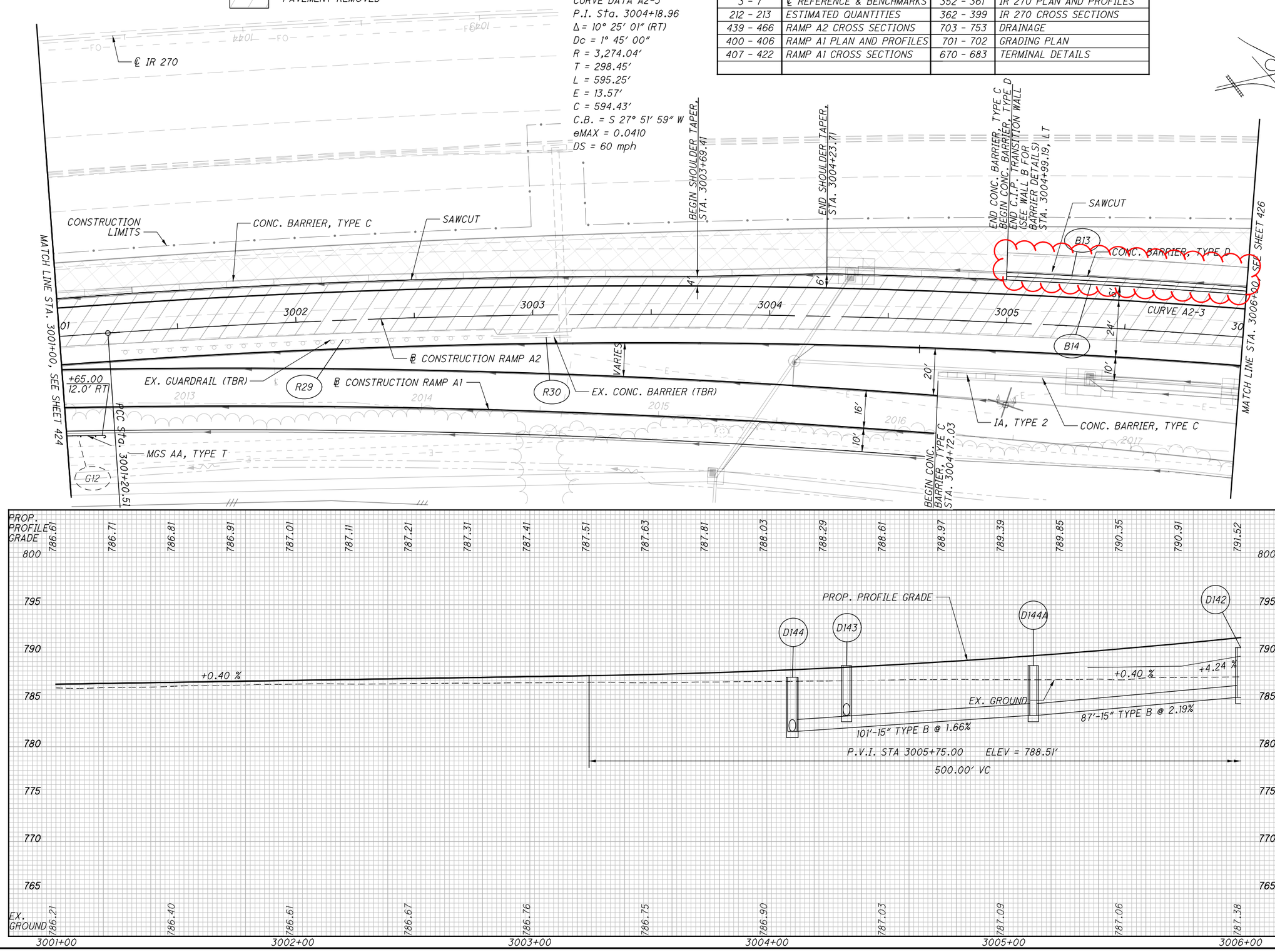
GEOMETRIC DATA:

℄ CONSTRUCTION RAMP A2
CURVE DATA A2-3
P.I. Sta. 3004+18.96
Δ = 10° 25′ 01″ (RT)
Dc = 1° 45′ 00″
R = 3,274.04′
T = 298.45′
L = 595.25′
E = 13.57′
C = 594.43′
C.B. = S 27° 51′ 59″ W
eMAX = 0.0410
DS = 60 mph

CROSS REFERENCES			
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
3 - 7	℄ REFERENCE & BENCHMARKS	352 - 361	IR 270 PLAN AND PROFILES
212 - 213	ESTIMATED QUANTITIES	362 - 399	IR 270 CROSS SECTIONS
439 - 466	RAMP A2 CROSS SECTIONS	703 - 753	DRAINAGE
400 - 406	RAMP A1 PLAN AND PROFILES	701 - 702	GRADING PLAN
407 - 422	RAMP A1 CROSS SECTIONS	670 - 683	TERMINAL DETAILS

PLAN KEY MAP:





HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED RMP
CHECKED SJB

PLAN AND PROFILE - RAMP A2
STA. 3001+00 TO STA. 3006+00

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NOTES:

LEGEND:

PAVEMENT REMOVED

GEOMETRIC DATA:
℄ CONSTRUCTION RAMP A2
CURVE DATA A2-3
P.I. Sta. 3004+18.96
Δ = 10° 25′ 01″ (RT)
Dc = 1° 45′ 00″
R = 3,274.04′
T = 298.45′
L = 595.25′
E = 13.57′
C = 594.43′
C.B. = S 27° 51′ 59″ W
eMAX = 0.0410
DS = 60 mph

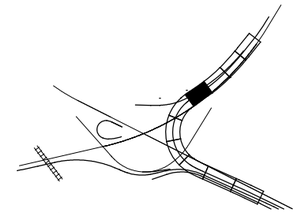
GEOMETRIC DATA:
℄ CONSTRUCTION RAMP A2
SPIRAL 1 DATA A2-4
P.I. STA. 3011+28.88
Ls= 224.00′
ʹfs = 7° 28′ 00″
LT = 149.47′
ST = 74.79′
x = 223.62′
y = 9.72′
k = 111.94′
p = 2.43′

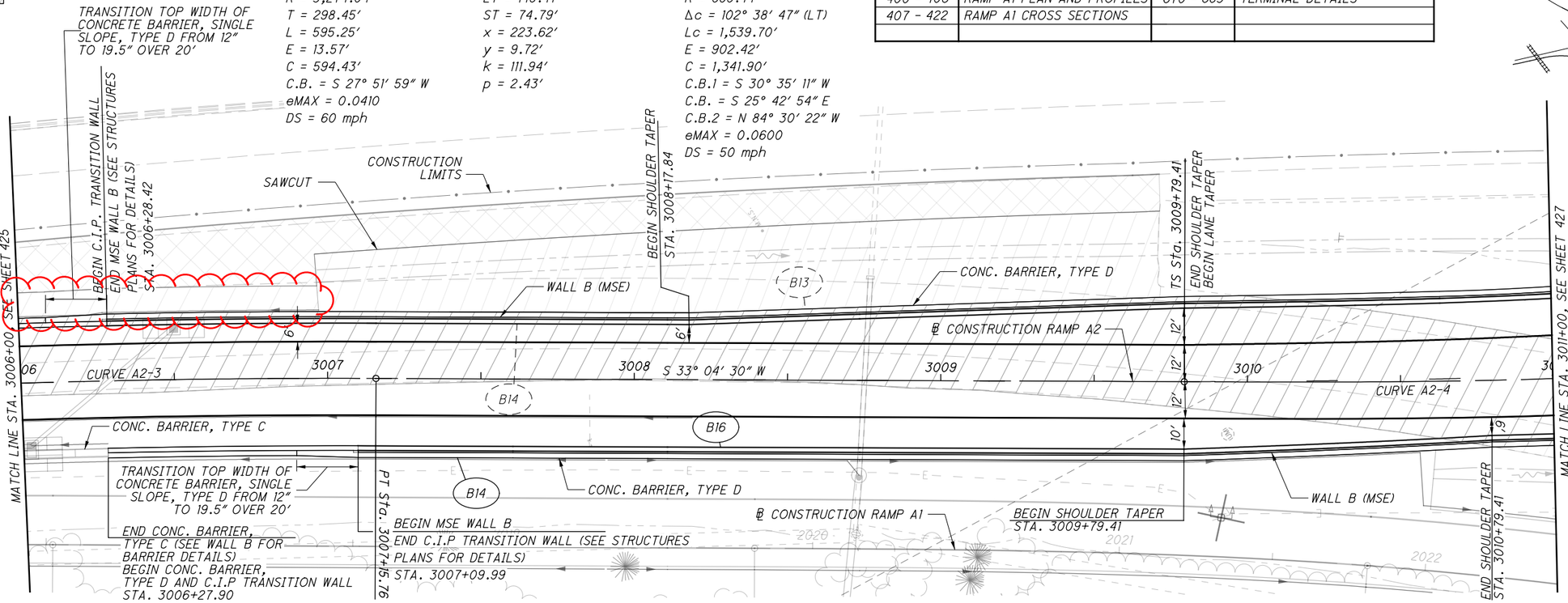
GEOMETRIC DATA:
℄ CONSTRUCTION RAMP A2
CURVE DATA A2-4
P.I. Sta. 3026+28.01
Δ = 121° 18′ 47″ (LT)
Dc = 6° 40′ 00″
R = 859.44′
Δc = 102° 38′ 47″ (LT)
Lc = 1,539.70′
E = 902.42′
C = 1,341.90′
C.B.1 = S 30° 35′ 11″ W
C.B. = S 25° 42′ 54″ E
C.B.2 = N 84° 30′ 22″ W
eMAX = 0.0600
DS = 50 mph

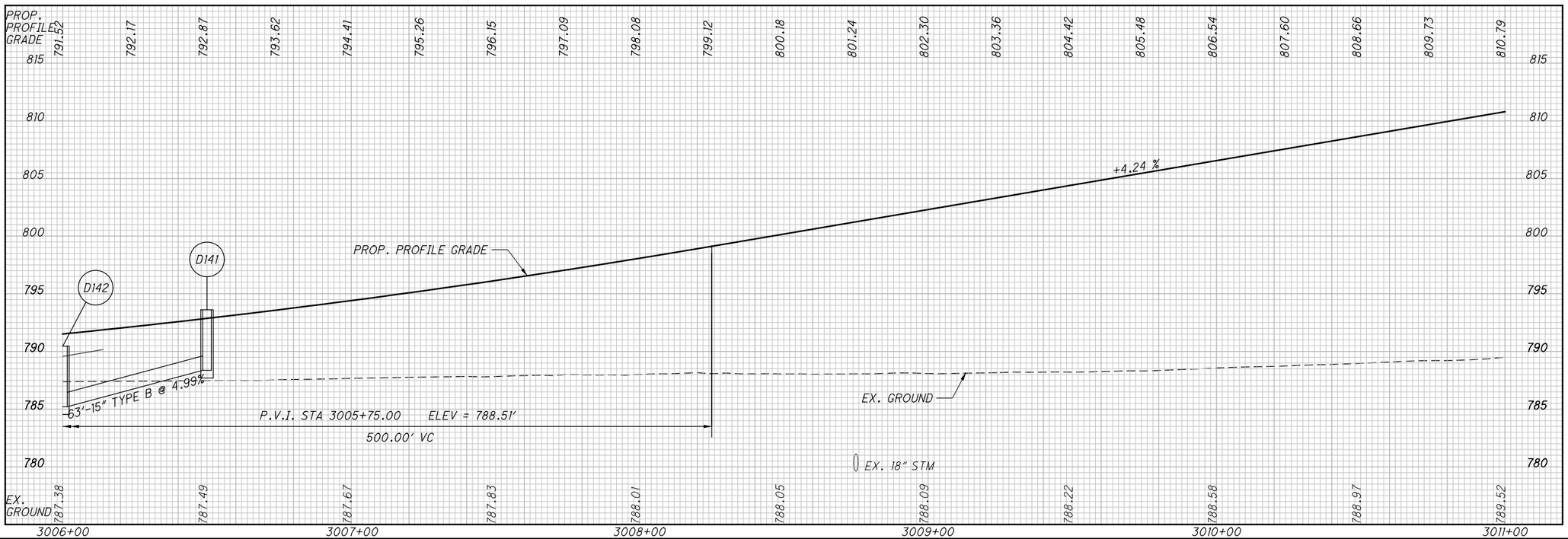
CROSS REFERENCES

SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
3 - 7	℄ REFERENCE & BENCHMARKS	352 - 361	IR 270 PLAN AND PROFILES
212 - 213	ESTIMATED QUANTITIES	362 - 399	IR 270 CROSS SECTIONS
439 - 466	RAMP A2 CROSS SECTIONS	703 - 753	DRAINAGE
400 - 406	RAMP A1 PLAN AND PROFILES	670 - 683	TERMINAL DETAILS
407 - 422	RAMP A1 CROSS SECTIONS		

PLAN KEY MAP:







HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED RMP
CHECKED SJB

PLAN AND PROFILE - RAMP A2 STA. 3006+00 TO STA. 3011+00

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