

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

STA-30/297-6.06/0.17
Part 1

PROJECT DESCRIPTION

IMPROVEMENT OF 6.99 MILES OF US 30 AND 0.68 MILES OF SR 297, BY RESURFACING INCLUDING PAVEMENT REPAIR, PAVEMENT PLANING, SIGNING UPGRADE, GUARDRAIL UPGRADE, AND DRAINAGE WORK.

EARTH DISTURBED AREAS

PROJECT EDA - N/A (MAINTENANCE PROJECT)
EST. CONTRACTOR EDA - N/A (MAINTENANCE PROJECT)
NOTICE ON INTENT EDA - N/A (MAINTENANCE PROJECT)

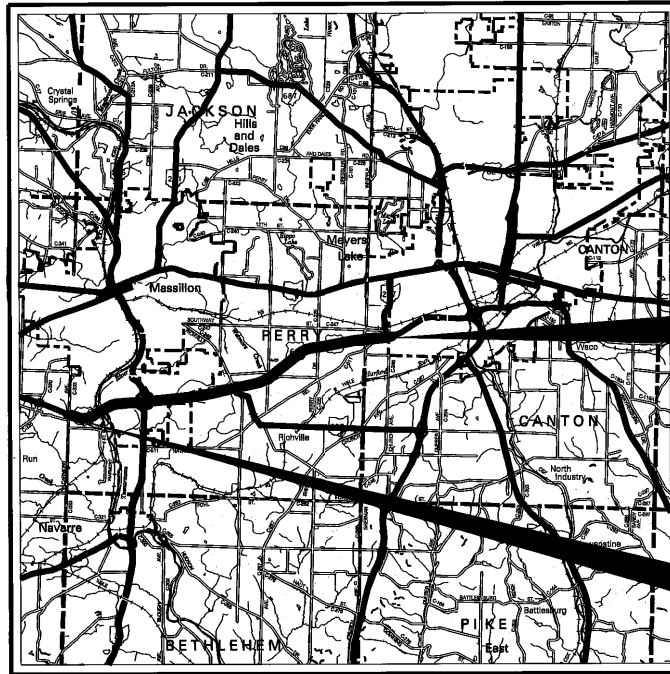
LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2005 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 7-14.



END PROJECT
SLM 13.05, U.S. 30

BEGIN PROJECT
SLM 6.06, U.S. 30

CITY OF MASSILLON, PERRY TOWNSHIP
STARK COUNTY
FOR PART 2, SEE STA-30-(6.70)(11.57)

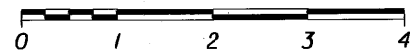
INDEX OF SHEETS:

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LOCATION MAP

LATITUDE: 40°45'51" LONGITUDE: 81°28'52"

SCALE IN MILES



PORTION TO BE IMPROVED	—————
INTERSTATE & DIVIDED HIGHWAY	=====
UNDIVIDED STATE & FEDERAL ROUTES	=====
OTHER ROADS	—————
NHS PROJECT	————— YES

DESIGN EXCEPTIONS

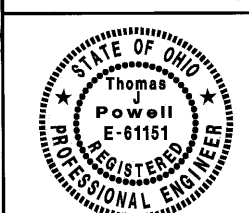
NONE

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT NO. 4
OFFICE OF PRODUCTION
2088 SOUTH ARLINGTON ROAD
AKRON, OHIO 44306

ENGINEERS SEAL:



SIGNED: *Thomas J. Powell*
DATE: 02/08/06

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	7/16/04	F-2.1	7/28/00	RM-1.1	1/20/06	MT-35.10	4/20/01			800	4/21/06
BP-4.1	7/16/04	F-3.1	7/28/00	RM-4.2	4/18/03	MT-95.30	7/16/04	MT-101.70	10/18/02	802	4/15/05
BP-5.1	7/28/00	F-3.4	7/28/00	RM-4.5	4/18/03	MT-95.31	7/16/04	MT-102.10	10/18/02	832	4/17/04
				RM-4.6	1/16/04	MT-95.32	7/16/04	MT-102.20	10/18/02	833	2/12/03
CB-1.1	7/15/05	GR-1.1	7/16/04			MT-95.70	4/19/02	MT-105.10	10/18/02	843	4/18/03
CB-2.2	7/15/05	GR-2.1	1/16/04	AS-1-81	7/19/02	MT-97.10	4/19/02	MT-105.11	10/18/02	885	11/04/05
CB-3.2	7/15/05	GR-3.1	4/18/03	GSD-1-96	7/19/02	MT-98.12	4/19/02				
		GR-3.2	4/18/03	PCB-91	7/19/02	MT-98.13	4/19/02	TC-41.20	1/19/01		
DM-1.1	10/21/05	GR-4.2	4/15/05	PSID-1-99	7/18/03	MT-98.14	4/19/02	TC-42.20	7/16/04		
DM-1.2	10/21/05	GR-5.1	4/18/03	SBR-1-99	7/19/02	MT-98.15	7/16/04	TC-52.10	4/20/01		
DM-1.4	1/21/05	GR-5.2	1/16/04	SICD-1-96	7/19/02	MT-98.16	4/19/02	TC-52.20	4/20/01		
DM-4.1	7/19/02	GR-5.3	1/16/04			MT-98.17	10/18/02	TC-65.10	1/21/05		
DM-4.3	7/19/02	GR-6.2	4/18/03			MT-98.18	10/18/02	TC-65.11	1/21/05		
DM-4.4	7/19/02					MT-99.20m	1/30/95	TC-71.10	1/21/05		WWP#34#33 s/18/06
		HW-2.1	1/20/06			MT-100.00	4/19/02	TC-72.20	1/21/05		
		HW-2.2	7/15/05			MT-101.20	10/18/02	TC-73.10	1/19/01		

SPECIAL PROVISIONS

APPROVED *MSH*
DATE 2-9-06 DISTRICT DEPUTY DIRECTOR

APPROVED *London Proctor*
DATE 5-15-06 DIRECTOR, DEPARTMENT OF TRANSPORTATION

STA - USR 30/297-6.06/0.17(6.70)(11.57)
060320 PID - 23754
Dist 4 7/12/2006

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FEDERAL PROJECT NO. E 033 (671)

PID NO. 23754

CONSTRUCTION PROJECT NO.

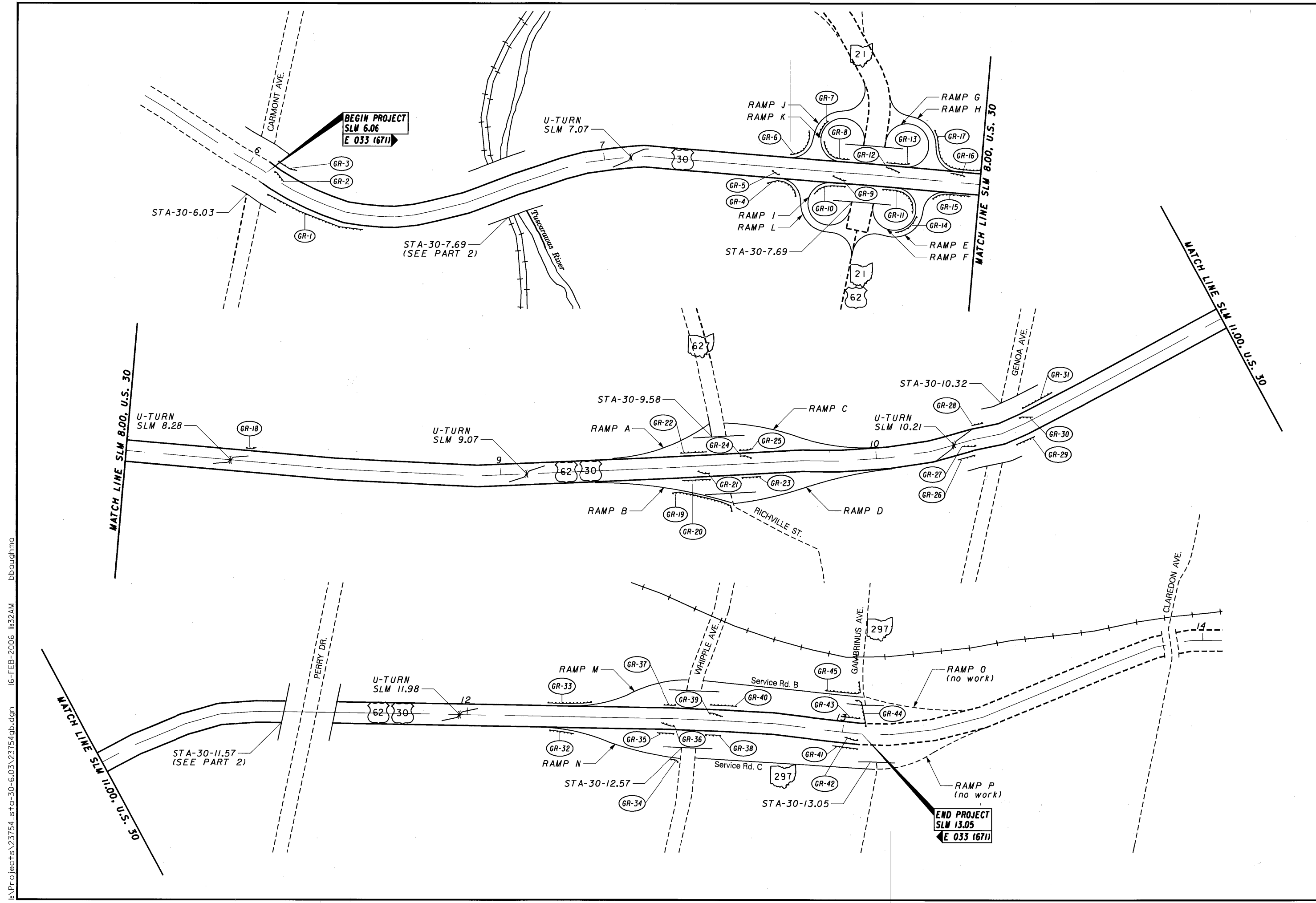
RAILROAD INVOLVEMENT NONE

STA-30/297-6.06/0.17

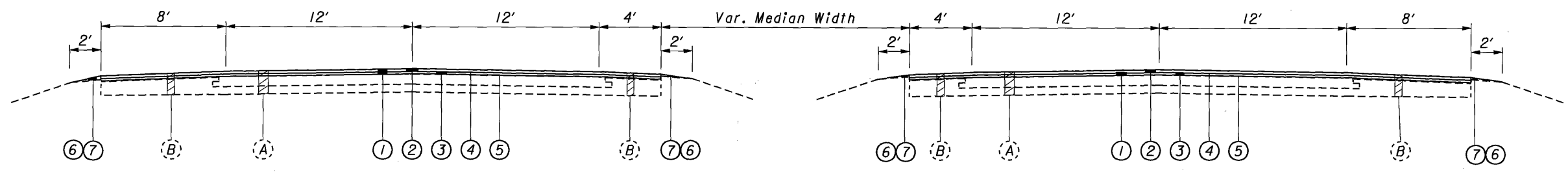


SCHEMATIC PLAN

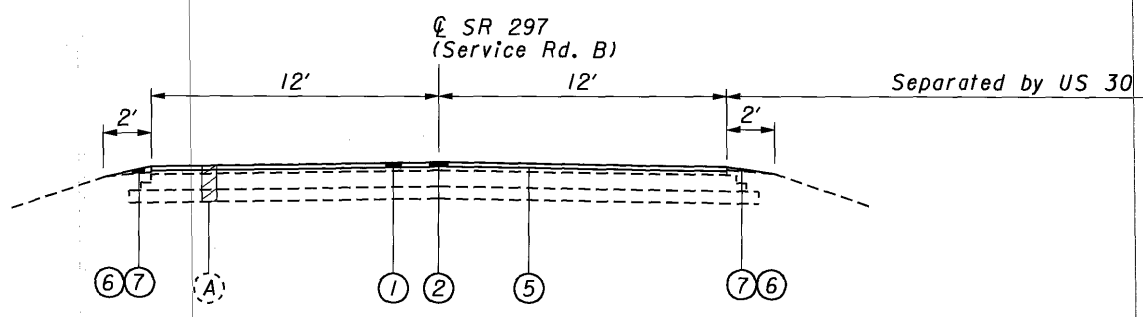
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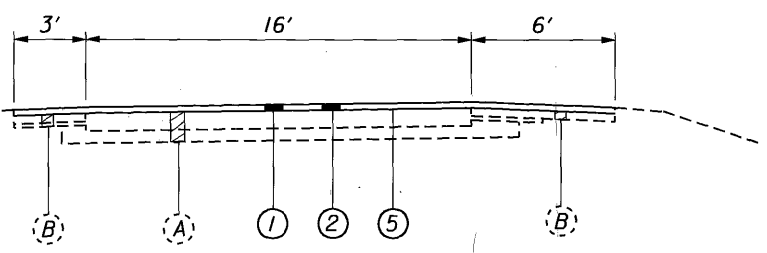
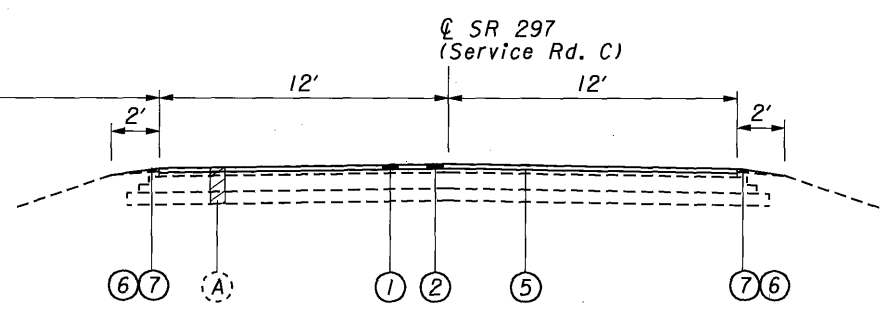
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SECTION APPLIES:				
ROUTE	SLM		LENGTH (MILES)	WP (FEET)
	FROM	TO		
30	6.06	13.05	6.99	72
TOTAL			6.99	



SECTION APPLIES:				
ROUTE	SLM		LENGTH (MILES)	WP (FEET)
	FROM	TO		
297	0.17	0.66	0.49	48
TOTAL			0.49	



- TYPICAL RAMP SECTION**
- RAMP E @ SR 21
 - RAMP F @ SR 21
 - RAMP G @ SR 21
 - RAMP H @ SR 21
 - RAMP I @ SR 21
 - RAMP J @ SR 21
 - RAMP K @ SR 21
 - RAMP L @ SR 21
 - RAMP A @ SR 627
 - RAMP B @ SR 627
 - RAMP C @ SR 627
 - RAMP D @ SR 627
 - RAMP M @ WHIPPLE AVE.
 - RAMP N @ WHIPPLE AVE.

LEGEND

- ① 254, PAVEMENT PLANING, ASPHALT CONCRETE
- ② 442, 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446)
- ③ 442, 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE B (446)
- ④ 407, TACK COAT FOR INTERMEDIATE COURSE
- ⑤ 407, TACK COAT
- ⑥ 408, PRIME COAT, AS PER PLAN
- ⑦ 617, COMPACTED AGGREGATE, TYPE A, AS PER PLAN

- (A) EXISTING ASPHALT CONCRETE PAVEMENT
- (B) EXISTING SHOULDER

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UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)

OGPUPS 1-800-925-0988

ODOT 330-786-3145 KEN GREENE

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN SHALL BE CONVERTED TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE 2002 CONSTRUCTION AND MATERIAL SPECIFICATIONS. CONVERSIONS SHALL BE APPROPRIATELY PRECISE AND SHALL REFLECT STANDARD INDUSTRY ENGLISH VALUES WHERE SUITABLE.

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL BE AS SHOWN ON THE TYPICAL SECTIONS.

GRADING AND FILLING OPERATIONS

THE PLACEMENT OF COMPACTED AGGREGATE SHALL NOT EXTEND PAST THE EXISTING GRADED SHOULDERS. NO EXCAVATION, GRADING, OR FILLING OPERATIONS SHALL BE PERFORMED IN ANY WETLANDS OR STREAMS, UNLESS THE REQUIRED STATE AND/OR FEDERAL PERMITS HAVE BEEN OBTAINED IN ACCORDANCE WITH ALL APPLICABLE STATE AND/OR FEDERAL LAWS AND REGULATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS OR STREAMS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

PAVEMENT MARKING LANE WIDTHS

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS:

ROUTE	S.L.M. TO S.L.M.	LANE WIDTH
S.R. 30	6.06 TO 13.05	12'
S.R. 30 RAMPS		16'
S.R. 297	0.17 TO 0.66	12'

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ENDANGERED SPECIES HABITAT

THIS PROJECT IS WITHIN THE RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS) AND MAY IMPACT SUMMER ROOSTING HABITAT FOR THIS SPECIES. THE SUMMER ROOSTING HABITAT FOR THE INDIANA BAT CONSISTS OF LIVING OR DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES OR CAVITIES. THEREFORE, ANY UNAVOIDABLE CUTTING OF SUCH TREES WILL BE PERFORMED ONLY AFTER SEPTEMBER 15 AND BEFORE APRIL 15.

THE UNDERSIDE OF BRIDGES SHALL BE CHECKED FOR THE PRESENCE OF BATS PRIOR TO CONSTRUCTION BY THE ENGINEER. IF BATS ARE FOUND, THE DISTRICT 4 ENVIRONMENTAL SECTION SHALL BE CONTACTED FOR FURTHER DIRECTION.

DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAMS OR WETLANDS. ANY MATERIAL THAT DOES FALL INTO THE STREAM OR WETLANDS SHALL BE REMOVED AS SOON AS POSSIBLE.

STREAM CHANNEL EXCAVATION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEAN OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

MECHANICAL EQUIPMENT OPERATION AT STREAM CHANNEL

THE MECHANICAL EQUIPMENT USED TO EXECUTE THE WORK AUTHORIZED HEREIN SHALL BE OPERATED IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

BEST MANAGEMENT PRACTICES

WATER COLUMN AND SEDIMENTATION IMPACTS SHALL BE KEPT TO A MINIMUM THROUGH THE USE OF BEST MANAGEMENT PRACTICES FOR SOIL EROSION AND SEDIMENTATION CONTROL.

TRAIL CLOSURE

THE OHIO AND ERIE CANAL TOWPATH TRAIL WILL BE CLOSED FOR SHORT PERIODS OF TIME WHILE THE WORK IS PERFORMED OVER THE TRAIL. CLOSURES WILL BE LIMITED TO DURATIONS OF APPROXIMATELY 3-5 DAYS IN LENGTH, DURING WEEKDAYS FROM 7 AM TO 6PM. AT NO TIME SHALL THE TOWPATH TRAIL BE CLOSED DURING WEEKENDS. ADVANCE NOTICE OF THE CLOSURE WILL BE PROVIDED TO THE CITY OF MASSILLON PARKS DISTRICT AND SIGNS WILL BE POSTED BY THE CONTRACTOR AT APPROPRIATE LOCATIONS ON THE TRAIL. THE CITY OF MASSILLON SHALL BE CONTACTED A MINIMUM OF THREE WEEKS PRIOR TO CLOSING THE TRAIL. THE CITY OF MASSILLON PARK DIRECTOR KEN KAMINSKI MAY BE CONTACTED AT 505 ERIE STREET NORTH, MASSILLON, OHIO 44646 (330) 832-1621.

PAINTING AND SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT, OR OTHER MATERIALS USED TO REPAIR, CLEAN, SEAL, OR TREAT ANY BRIDGE STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF OPEN PAINT/SEALER MATERIAL TO THE EXTENT PRACTICABLE TO PERFORM THE REQUIRED WORK. DISCARDED CONTAINERS SHALL BE REMOVED FROM THE VICINITY OF THE STREAM, AND UNDER NO CIRCUMSTANCES SHALL ANY PAINT/SEALER MATERIAL BE STORED WITHIN THE 100 YEAR FLOODPLAIN. IN EACH CASE WHERE THERE IS AN INCIDENT OF DEBRIS AND/OR MATERIALS THAT FALL OR MIGRATE INTO THE RIVER, THE CONTRACTOR SHALL, AS SOON AS POSSIBLE, NOTIFY THE ENGINEER/SUPERVISOR, AND THE FOLLOWING AGENCIES:

- OHIO EPA SPILL REPORTING
24 HOUR EMERGENCY SERVICE
CALL: 1-800-282-9378
PROVIDE AS MUCH OF THE FOLLOWING INFORMATION AS POSSIBLE:
1. TIME OBSERVED
 2. LOCATION
 3. MATERIAL RELEASED
 4. PROBABLE SOURCE
 5. VOLUME & DURATION
 6. PRESENT & ANTICIPATED MOVEMENT OF CONTAMINANT
 7. PERSONNEL ON SCENE
 8. ACTIONS ALREADY INITIATED
 9. PERSON(S) ON THE SCENE TO CONTACT

STARK COUNTY SANITARY ENGINEER: MICHAEL ARMOGIDA, P.E.,
1701 MAHONING RD NE, CANTON, OHIO 44705 (330) 451-2303 OR
(330) 451-2320 (24 HR. EMERGENCY *)

STARK SOIL & WATER CONSERVATION DISTRICT, 2350 RICHVILLE DR., MASSILLON, OHIO 44646 (330) 830-7700 X103

PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING 209, LINEAR GRADING, AND PAVING UNDER THE GUARDRAIL USING 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22, UNDER GUARDRAIL, AS PER PLAN.

ITEM 209, LINEAR GRADING, SHALL CONSIST OF EXCAVATING EXISTING MATERIAL, PLACING GRANULAR MATERIAL AND APPLYING HERBICIDE AS SPECIFIED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING:

ALL COLLECTED DEBRIS, ASPHALT AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 105.17.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY.

HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 209, LINEAR GRADING, AS PER PLAN.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 448 TO THE DEPTH SPECIFIED. PAVING MAY BE PLACED UNDER EXISTING OR PROPOSED GUARDRAIL USING ONE OF THE FOLLOWING METHODS:
METHOD A: 1) SET GUARDRAIL POSTS (OMIT IF EXISTING GUARDRAIL IS TO REMAIN)
2) PLACE ITEM 448

METHOD B: 1) PLACE ITEM 448
2) BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)
3) SET GUARDRAIL POSTS
4) PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS

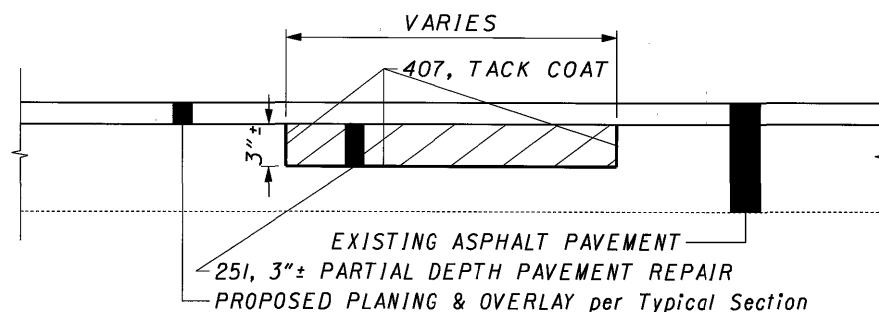
ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 448, ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, PG 64-22, UNDER GUARDRAIL, AS PER PLAN.

SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SEEDING AND MULCHING	3252 SQ. YD.
659, COMMERCIAL FERTILIZER	0.44 TON
659, LIME	0.67 ACRE
659, WATER	18 M. GAL.



ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING 3"± OF ITEM 442 ASPHALT CONCRETE, TYPE B. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE 1 PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13.

IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF MAINLINE PAVEMENT PLANING.

PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR.

ITEM 630 - REMOVAL OF MISC. TRAFFIC CONTROL ITEM, BEAM SUPPORT FOUNDATION

THE CONTINGENCY QUANTITY HAS BEEN PROVIDED FOR THIS WORK TO BE USED FOR REMOVAL OF BEAM SUPPORT FOUNDATIONS, AS DIRECTED BY THE ENGINEER, WHERE EVER NEEDED THROUGHOUT THE PROJECT.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 630 - REMOVAL OF MISC. TRAFFIC CONTROL ITEM, BEAM SUPPORT FOUNDATION - 8 EACH

ITEM 690 - SPECIAL, MISC.: CLEARING AND GRUBBING

THIS ITEM IS INTENDED TO BE USED TO CLEAR ALL GROWTH IN FRONT OF HIGHWAY SIGNS THAT MAY IMPEDE ITS VIEWING BY MOTORISTS.

IN ADDITION TO THE REQUIREMENTS OF 201, THE CONTRACTOR WILL REMOVE STUMPS AT LEAST 6 INCHES BELOW GROUND SURFACE AND THE WORK WILL NOT INCLUDE SCALPING. THE AREA TO BE CLEARED AND GRUBBED WILL BE DELINEATED IN THE WORK ORDER.

THE FOLLOWING IS AN ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER FOR THE ABOVE WORK:

ITEM 690-SPECIAL, MISC.; CLEARING AND GRUBBING 9 ACRES.

PAYMENT WILL BE AT THE UNIT BID PRICE PER ACRE CLEARED AND GRUBBED AND WILL INCLUDE BACKFILLING HOLES AND REMOVING ALL TREES AND STUMPS.

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CALCULATED
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GENERAL NOTES

STA-30/297-6.06/0.17

ITEM 606 - ANCHOR ASSEMBLY, TYPE B-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

1) THE SRT-350, GUARDRAIL END TERMINAL AS MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE SRT-350 SYSTEM IS CONSIDERED TO BE 37'-6", INCLUSIVE OF THREE 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
SS444	SLOTTED RAIL TERMINAL POST LAYOUT AND		
		7/12/99	8/27/99
SS444M	ERECTION DETAILS SRT-350 (12.5, 8 POST)	Rev. 1	7/12/99
SS425M	SLOTTED RAIL TERMINAL SRT-350 POST LAYOUT AND ERECTION DETAILS (12.5, 9 POST)	6/21/97	3/6/98

2) THE FLEAT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE FLEAT-350 IS CONSIDERED TO BE 37'-6", INCLUSIVE OF THREE 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
FLT-M	FLARED ENERGY ABSORBING TERMINAL (FLEAT-350) ASSEMBLY	4/16/98	7/31/98

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES FROM THE EDGE OF THE SHOULDER.

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

THE FACE OF THE TYPE B-98 IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19: APPROXIMATELY 36" W X 12" H FOR THE SRT-350 AND 14" W X 20" H FOR THE FLEAT.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE B-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 606 - ANCHOR ASSEMBLY, TYPE E-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF TWO 25'-0" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
SSS265M	ET-2000 (1997) PLAN, ELEVATION AND SECTIONS	6/20/97	3/6/98
SSI42	ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4	4/12/00	7/31/00
SSI41	ET2000 PLUS PLAN, ELEVATION AND SECTION 25'-0" RAIL, HBA POSTS 1-4	2/29/00	7/31/00
SSI58	ET2000 PLUS 50'-0" WITH 12'-6" PANELS AND HBA POSTS 1-4 PLAN, ELEVATION AND SECTION	5/22/00	7/31/00

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF FOUR 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./ REV.	ODOT APPROVAL DATE
SKT-4M	SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES	12/11/97	3/6/98

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18".

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES FROM THE EDGE OF THE SHOULDER.

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

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 617 COMPACTED AGGREGATE, AS PER PLAN

IN LOW SHOULDER AREAS EXCEEDING 1", OR AS DIRECTED BY THE ENGINEER, RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION, THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE. METHOD OF MEASUREMENT SHALL BE AS PER 617.06. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

MODIFIED GRADATION SHALL APPLY:

SIEVE	TOTAL PERCENT PASSING
1-1/2"	100
3/4"	50-100
NO. 4	35-70
NO. 30	9-33
NO. 200	0-13

ITEM 408 - PRIME COAT, AS PER PLAN

THE CONTRACTOR WILL APPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE YARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER.

THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID PRIME COAT MATERIAL ONTO THE EDGE OF THE PAVEMENT OR EDGELINE. CARE ALSO SHALL BE TAKEN TO AVOID SPRAYING LIQUID PRIME COAT MATERIAL ONTO DRIVEWAY APRONS, MAILBOX APPROACHES OR ANY PEDESTRIAN AREAS. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

ADOPT-A-HIGHWAY SIGN

PRIOR TO ORDERING THE ADOPT-A-HIGHWAY SIGNS, THE CONTRACTOR SHALL CONTACT MR. KEN GREENE (330-786-3145) OR MR. BOB PALLO (330-786-2218) FOR THE CORRECT LEGEND INFORMATION FOR EACH SIGN TO BE REPLACED ON THE PLAN.

SIGN PLACEMENT

THE EXACT LOCATION OF SIGNS ARE TO BE STAKED AND CHECKED BY THE ENGINEER PRIOR TO PLACEMENT TO INSURE CLEARANCE OF DRIVES, ROADWAYS AND OTHER OBSTACLES. IF THERE ARE ANY CONFLICTS, THEY ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS IS INCIDENTAL TO ALL 630 ITEMS.

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GENERAL NOTES

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NOTES

GENERAL: This insert details the Barrier Transition, to connect existing NJ Concrete Barrier (safety shape) to a new run of Single Slope Concrete Barrier at locations shown on the plans. For NJ barrier shape and other details see the respective plan insert sheets. For Single Slope barrier details, see SCD RM-4.3 (RM-4.5 for Type D).

ADJACENT CONCRETE BARRIER RUNS: Remove any tapered end sections, impact attenuators, or other guardrail hardware from existing barrier end.

The barrier to barrier transition is not intended to be used at transition sections (those shown on SCD RM-4.4), Inlets, or on Type C or CI Barrier.

If proposed adjacent single slope barrier is Type A or AI, the Barrier Transition should contain horizontal reinforcing steel similar to that required in the respective single slope barrier. Reinforcement is not shown and should be detailed separately.

The adjacent single slope end should be terminated with a reinforced End Anchor as detailed on the SCDs.

BARRIER FACE TRANSITION: To prevent vehicle snagging, a smooth transition from the safety shape face to the single slope face is made over a 20' [6 m] length. The actual shape of the Transition is dependent on both the adjacent NJ barrier and the single slope barrier Types, as detailed on the plans. The contractor and Engineer will agree on a construction method to ensure a smooth barrier face.

MATERIALS: Materials are same for those shown on RM-4.3 and RM-4.5, except that cast-in-place is the only acceptable method. Edges may be chamfered or radiused as shown on those drawings.

CONCRETE BASE: Construct base as shown on the NJ shape insert sheets, including the methods detailing the footing joint, Permissible Construction Joint (PCJ), and Dowelling requirements. The width of the base matches the existing NJ barrier.

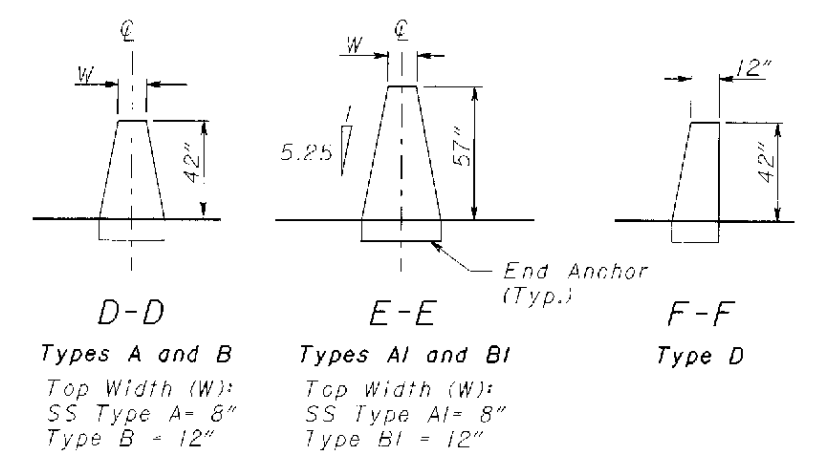
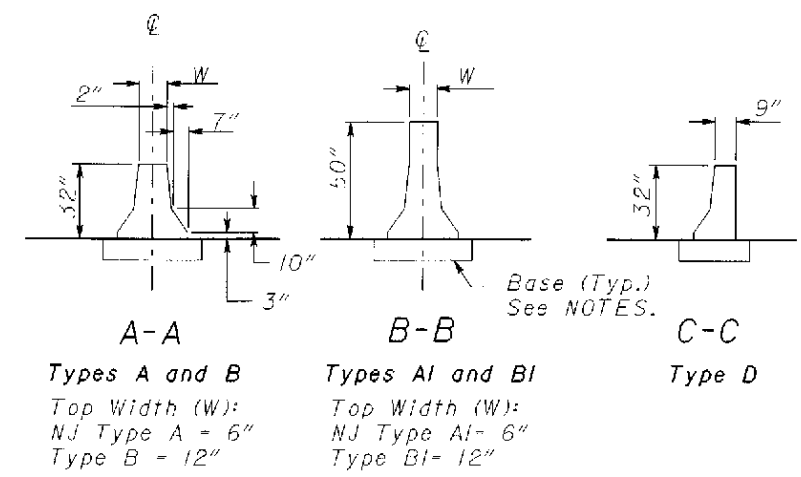
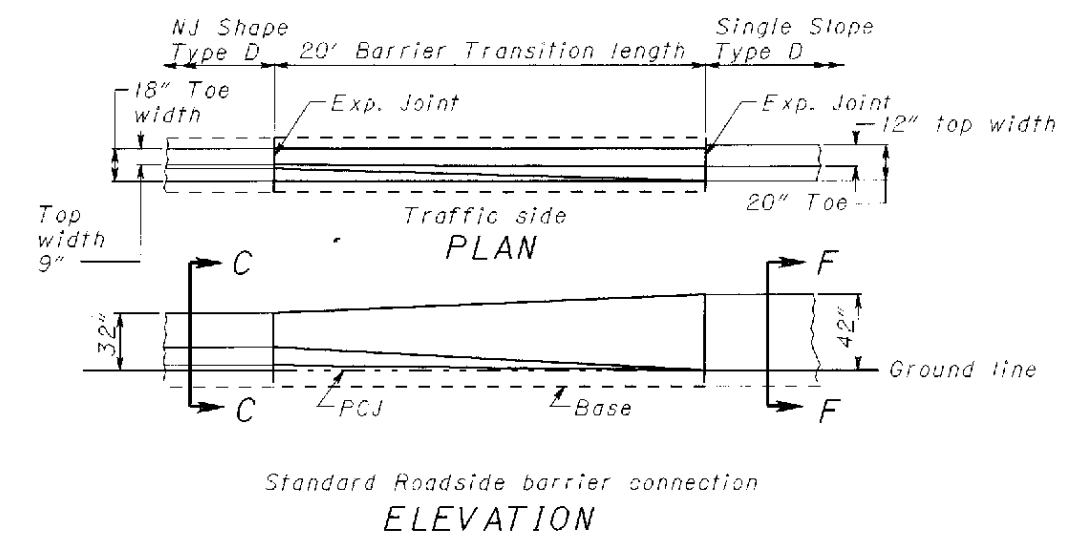
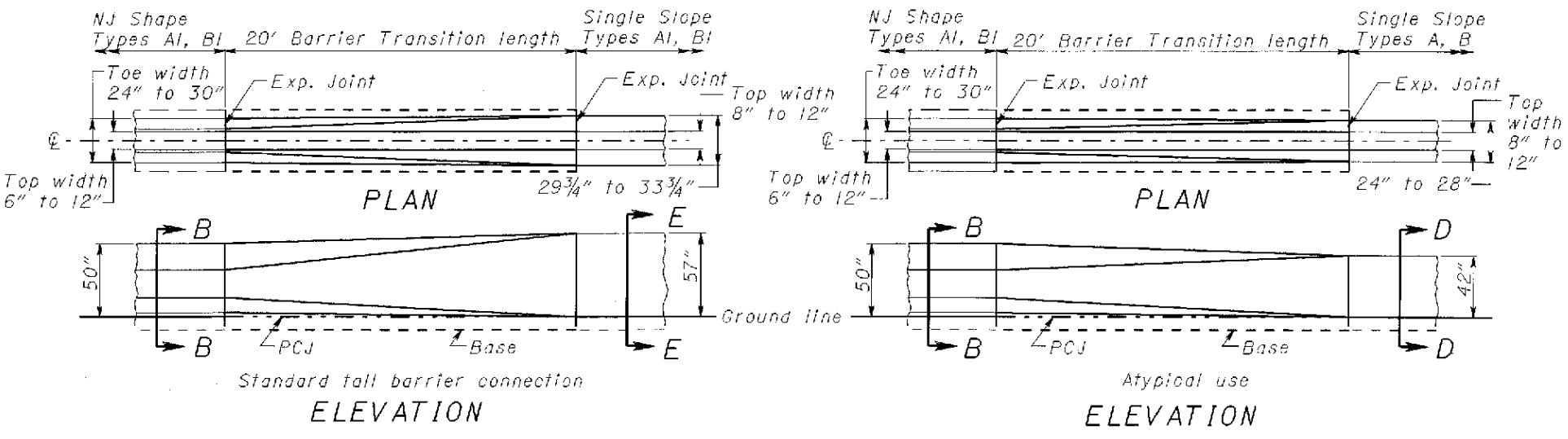
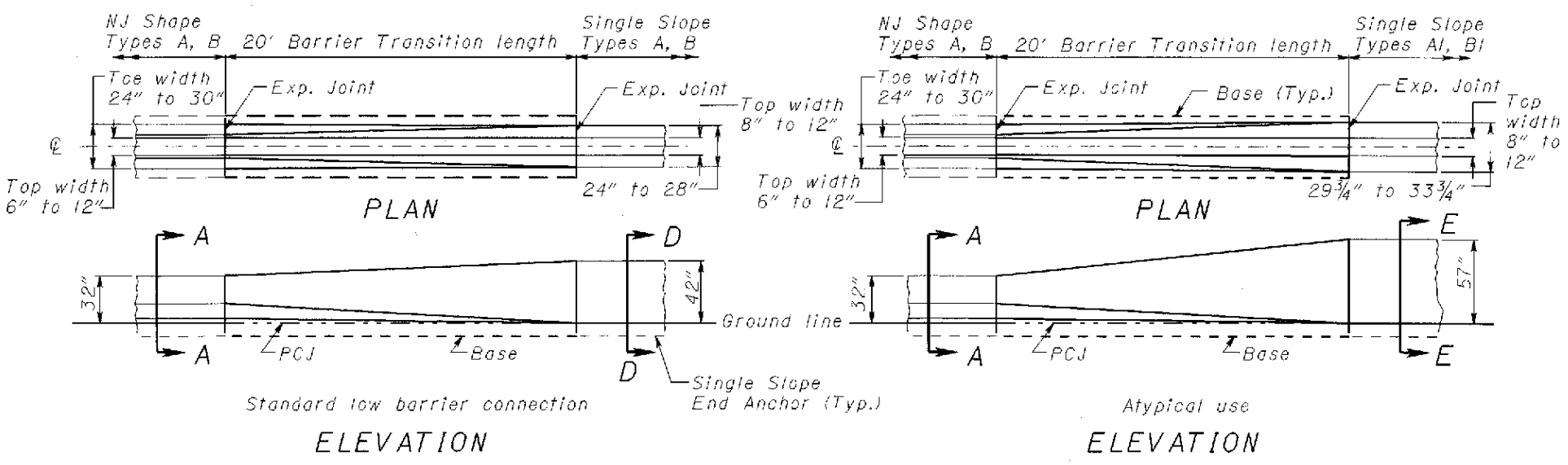
Where barrier is to be placed at location of parapet removal, proposed shall be connected to existing using dowels fastened to existing with 6" dowel holes and non-shrink non-metallic grout.

JOINTS: Construct joints as shown on respective barrier drawings.

RACEWAYS: When specified, place raceway(s) to match raceway elevation in adjoining segments. Place to obtain maximum concrete cover.

METRIC UNITS: Refer to respective barrier drawings or inserts for metric dimensions.

PAYMENT: This Barrier Transition shall include all material and labor needed to construct this 20' [6 m] section, including any raceways, reinforcing steel, dowels and other necessary incidentals. Payment shall be made at the unit price for Item 622 - Barrier Transition, Each.



NJ SHAPE SECTIONS

See Plan Insert sheets for specific NJ Shape Concrete barrier details.

SINGLE SLOPE SECTIONS

See SCD RM-4.3 and RM-4.5 for specific Single Slope concrete barrier details.

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MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. 4 OR MORE LANE ROADWAYS: A MINIMUM OF ONE ELEVEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED; ON TWO AND THREE LANE ROADWAYS: A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK. ON RAMPS, A MINIMUM OF ONE TEN FOOT LANE SHALL BE MAINTAINED EXCEPT WHEN DETOURS ARE IN EFFECT.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2211, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS OR LANE REDUCTIONS THAT ARE IN OPERATION ONE-HALF HOUR AFTER SUNSET OR ONE HALF-HOUR BEFORE SUNRISE. ALL NIGHTTIME LANE RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES AT A MAXIMUM SPACING OF FIFTY (50) FEET. WEIGHTED CHANNELIZERS MAY BE USED IN ACCORDANCE WITH THE ADDITIONAL NOTE HEREIN.

4. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.

5. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.

7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS ONE (1) MILE.

9. IN ADDITION TO THE REQUIREMENTS OF 614 WORK ZONE PAVEMENT MARKINGS (614.11), AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH TEMPORARY MARKINGS) ALL LANE, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH REPLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.

10. A QUANTITY OF 30 CU. YDS. OF 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS PRIOR TO RESURFACING, AS DIRECTED BY THE ENGINEER.

11. PRIOR TO OPENING TO TRAFFIC, EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

12. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGN HAS BEEN INCLUDED IN THE PLAN. THIS QUANTITY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING SIGNS: W8-1 [BUMP], W8-H13 [NO EDGE LINES], W8-11 [UNEVEN LANES SYMBOL]. THESE QUANTITIES SHALL BE AS PER 614.04.

13. NO WORK SHALL BE PERFORMED OVER AN OPEN LANE OF TRAFFIC.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

US-30: PHASE 1 (PLANED SURFACE)	
ITEM 614 WORK ZONE LANE LINE, CLASS 11	14.63 MILE
ITEM 614 WORK ZONE STOP LINE, CLASS 1	188 FT.
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1	3804 FT.
ITEM 614 WORK ZONE MARKING SIGN (ALL PHASES)	32 EACH

US-30: PHASE 2 (INTERMEDIATE COURSE)	
ITEM 614 WORK ZONE LANE LINE, CLASS 11	14.63 MILE
ITEM 614 WORK ZONE STOP LINE, CLASS 1	188 FT.
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1	3804 FT.

US-30: PHASE 3 (SURFACE COURSE)	
ITEM 614 WORK ZONE LANE LINE, CLASS 11	14.63 MILE
ITEM 614 WORK ZONE STOP LINE, CLASS 1	188 FT.
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1	3804 FT.

SR-297: PHASE 1 (PLANED SURFACE)	
ITEM 614 WORK ZONE LANE LINE, CLASS 11	0.73 MILE
ITEM 614 WORK ZONE STOP LINE, CLASS 1	148 FT.
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1	1310 FT.
ITEM 614 WORK ZONE MARKING SIGN (BOTH PHASES)	6 EACH

SR-297: PHASE 2 (SURFACE COURSE)	
ITEM 614 WORK ZONE LANE LINE, CLASS 11	0.73 MILE
ITEM 614 WORK ZONE STOP LINE, CLASS 1	148 FT.
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS 1	1310 FT.

WEIGHTED CHANNELIZERS

THE WEIGHTED CHANNELIZER SHALL BE PREDOMINATELY ORANGE IN COLOR AND SHALL BE MADE OF A LIGHTWEIGHT, FLEXIBLE, AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THEY MAY HAVE A "HANDLE" OR LIFTING DEVICE WHICH EXTENDS ABOVE THE 42" MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZER SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHANNELIZER SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

ON FREEWAYS AND MULTILANE HIGHWAYS:

USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATION, GENERALLY TWELVE HOURS OR LESS, FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK WITHIN THE ABOVE NOTED TIME PERIOD, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT. ANY LANE CLOSURE USING CHANNELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOURS, SHALL REQUIRE THE USE OF DRUMS OR BARRIERS.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE "TANGENT AREA". THE "TANGENT AREA" IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS.

ON OTHER HIGHWAYS:

THERE ARE NO DURATIONS OF WORK RESTRICTIONS FOR USE OF WEIGHTED CHANNELIZERS ON ALL OTHER TYPES OF HIGHWAYS, DAY OR NIGHT. ON THESE ROADWAYS THE WEIGHTED CHANNELIZER MAY BE USED IN THE TRANSITION TAPERS AS WELL AS IN THE TANGENT AREAS, DAY OR NIGHT.

MAXIMUM SPACING OF THE WEIGHTED CHANNELIZER SHALL BE 40 FEET.

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS. ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

ADVANCE NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY. OTHERWISE, THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE R/W, THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

WINTER TRAFFIC LIMITATIONS

ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND APRIL 1. NOVEMBER 14 SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE AND LIQUIDATED DAMAGES AS SPECIFIED IN 108.07 SHALL BE ASSESSED FOR EACH CALENDAR DAY THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. THE CONTRACTOR MAY CLOSE LANES PRIOR TO APRIL 1 WITH WRITTEN APPROVAL FROM THE DISTRICT CONSTRUCTION ENGINEER.

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

MAINTENANCE OF SHOULDERS - US-30

THE USE OF SHOULDERS TO MAINTAIN TRAFFIC IS PROHIBITED. SHOULD ANY EXISTING OR NEW SHOULDER AREAS BECOME DAMAGED OR DESTROYED DUE TO THE CONTRACTOR'S NEGLIGENCE OR FAILURE TO PROVIDE ADEQUATE SIGNS, BARRICADES, CONES, FLAGGERS OR OTHER TRAFFIC CONTROL DEVICES, THE RESTORATION OF THE SHOULDERS WILL BE AT THE CONTRACTORS EXPENSE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

IN ORDER TO PREVENT TRAFFIC FROM STRAYING ONTO THE SHOULDERS, THE LANES ON THE PLANED SURFACE AND INTERMEDIATE SURFACE COURSES SHALL BE STRIPED 11' WIDE. ADDITIONALLY, WEIGHTED CHANNELIZERS SHALL BE PLACED BEHIND THE EDGE LINES DURING PAVING OPERATIONS.

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR THIS WORK:

ITEM 614 WORK ZONE EDGE LINE, CLASS 1	56.32 MILE
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ITEM 614 - MAINTAINING TRAFFIC

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

CHRISTMAS	NEW YEARS
MEMORIAL DAY	FOURTH OF JULY
LABOR 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 THE WEEK	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 12:00N MONDAY
MONDAY	12:00N FRIDAY THROUGH 12:00N TUESDAY
TUESDAY	12:00N MONDAY THROUGH 12:00N WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 12:00N THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 12:00N MONDAY
FRIDAY	12:00N THURSDAY THROUGH 12:00N MONDAY
SATURDAY	12:00N FRIDAY THROUGH 12:00N MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07.

LANE CLOSURES

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT:

https://dotaw100.dot.state.oh.us/plcm/plcm_web.jsp

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN THE AMOUNT OF \$2,000 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, 2 PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS), ON SITE, FOR THE DURATION OF TIME SPECIFIED IN THIS NOTE. EACH SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR. THIS LIST IS AVAILABLE ON THE ODOT WEBSITE AT [HTTP://WWW.DOT.STATE.OH.US/TESTLAB/APPLISTS/MISC/PCMS.HTM](http://www.dot.state.oh.us/testlab/applists/misc/pcms.htm). THE CLASS 1 UNITS SHALL HAVE A MINIMUM LEGIBILITY DISTANCE OF 1250 FEET.

EACH SIGN SHALL BE TRAILER MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO DIM THE SIGN DURING DARKNESS AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED ON A PERMANENT BASIS BY AFFIXING RETROREFLECTIVE MATERIAL, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE PCMS SHOULD NOT BE LOCATED IN THE MEDIAN OF THE HIGHWAY UNLESS IT IS PROTECTED FROM BOTH DIRECTIONS OF TRAFFIC. THE PCMS SHOULD BE LOCATED BEHIND GUARDRAIL WHEREVER POSSIBLE. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE THE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS WILL BE OFF, FACING AWAY FROM ALL TRAFFIC AND SHALL DISPLAY ONE OR MORE HIGH INTENSITY YELLOW REFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE CONTRACTOR. A LIST OF ALL PROPOSED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION. THE SIGN SHALL HAVE TWO DIFFERENT MEMORIES (PROM AND RAM) AND CAPABILITY TO STORE UP TO 99 MESSAGES IN EACH MEMORY. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. IN ORDER TO CONVEY A MAXIMUM OF INFORMATION AT A SINGLE GLANCE, ONLY THREE LINE PRESENTATION FORMATS WITH A MAXIMUM OF SIX MESSAGE PHASES WILL BE PERMITTED. NORMALLY, ONLY A MAXIMUM OF THREE MESSAGE PHASES SHOULD BE EMPLOYED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST ONCE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DE-ACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL [IN ACTIVE CELLULAR AREAS] ALLOW REMOTE SIGN ACTIVATION, DEACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614. THE CONTRACTOR SHALL PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE

FOR MORE THAN 12 HOURS INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC AND THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOURS PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES. THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 614.02.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID FOR EACH SIGN MONTH OF ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
8 SIGN MONTH

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR)

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC AS DIRECTED BY THE ENGINEER FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR-DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT, OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

LAW ENFORCEMENT OFFICERS (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

CANTON PATROL POST
4710 SHUFFEL ROAD
NORTH CANTON, OHIO 44720
330-433-6200

IF AFTER CONTACTING THE OHIO HIGHWAY PATROL, IT IS DETERMINED THAT THEY CANNOT SUPPLY THE LEO, THEN AN AUTHORIZED MUNICIPAL OR COUNTY POLICE OFFICER WITH A MARKED AND FLASHER-LIGHT EQUIPPED OFFICIAL POLICE OR PATROL CAR SHALL BE PROVIDED.

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR 360 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, HE MAY DO SO AT HIS OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

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MAINTENANCE OF TRAFFIC GENERAL NOTES
STA-30/297-6.06/0.17
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DETOUR DURATION

THE MAXIMUM LENGTH OF TIME FOR EACH DETOUR TO BE IN EFFECT SHALL BE THREE (3) CONSECUTIVE DAYS. CONSTRUCTION WORK MAY BE PERFORMED BEFORE AND AFTER THE DETOUR LIMITATION DATES, BUT THERE SHALL BE NO RESTRICTIONS TO THROUGH OR LOCAL TRAFFIC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE CONSTRUCTION WORK WITHIN THE DETOUR LIMITATION TIME. THE FAILURE OF THE CONTRACTOR TO MEET THE DETOUR LIMITATION DATES WILL CAUSE SEPARATE LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 TO BE ASSESSED. THE CONTRACTOR WILL COMPLY WITH ALL PROVISIONS OF 108.07 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

DETOUR NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

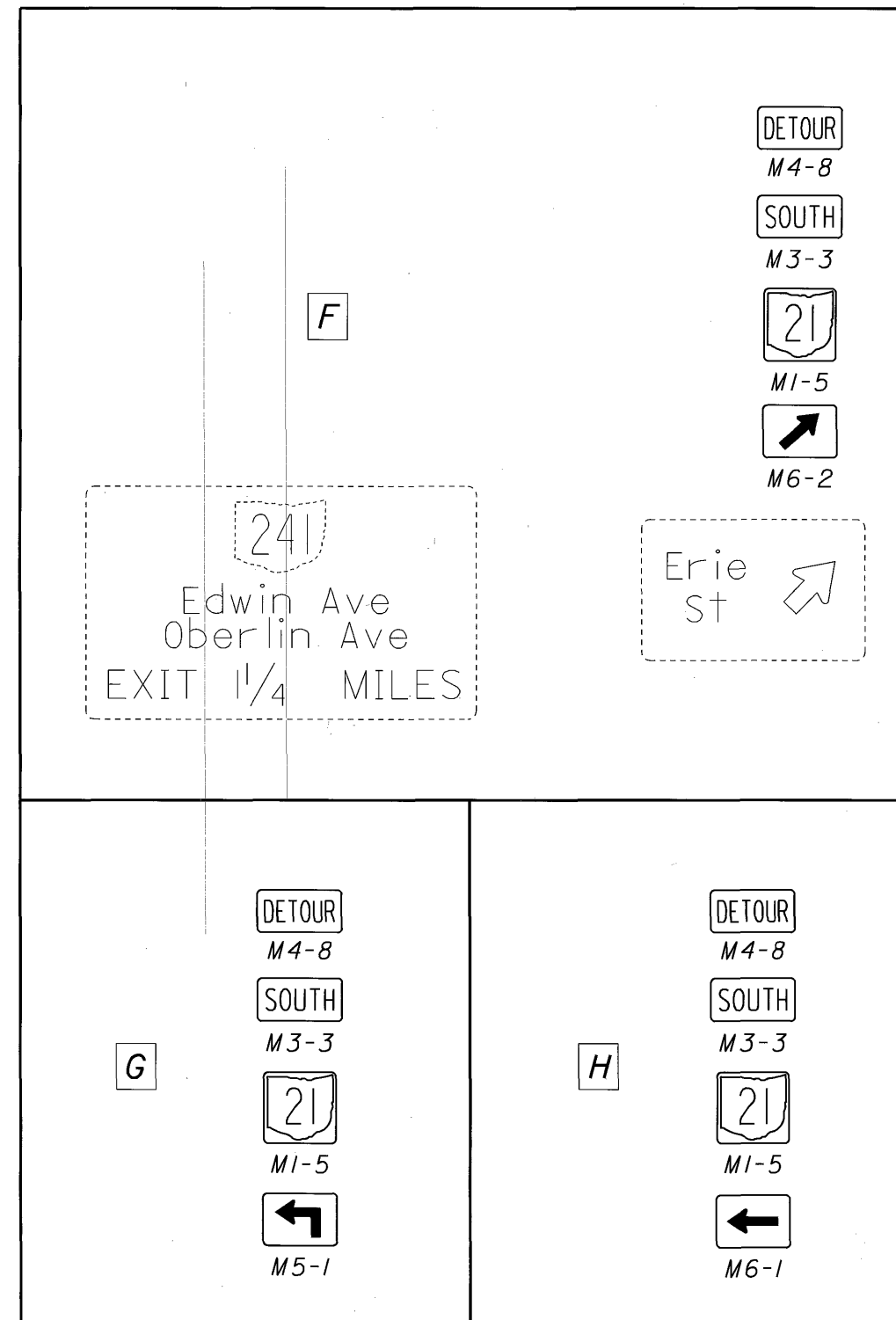
ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. 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 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.

RAMP WILL BE
CLOSED (date)
FOR 3 DAYS
OHIO DEPT. OF TRANSPORTATION

W20-H14

**LEGEND FOR
DETOUR MAP - RAMP K
SEE NEXT SHEET**



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CHECKED
LAB

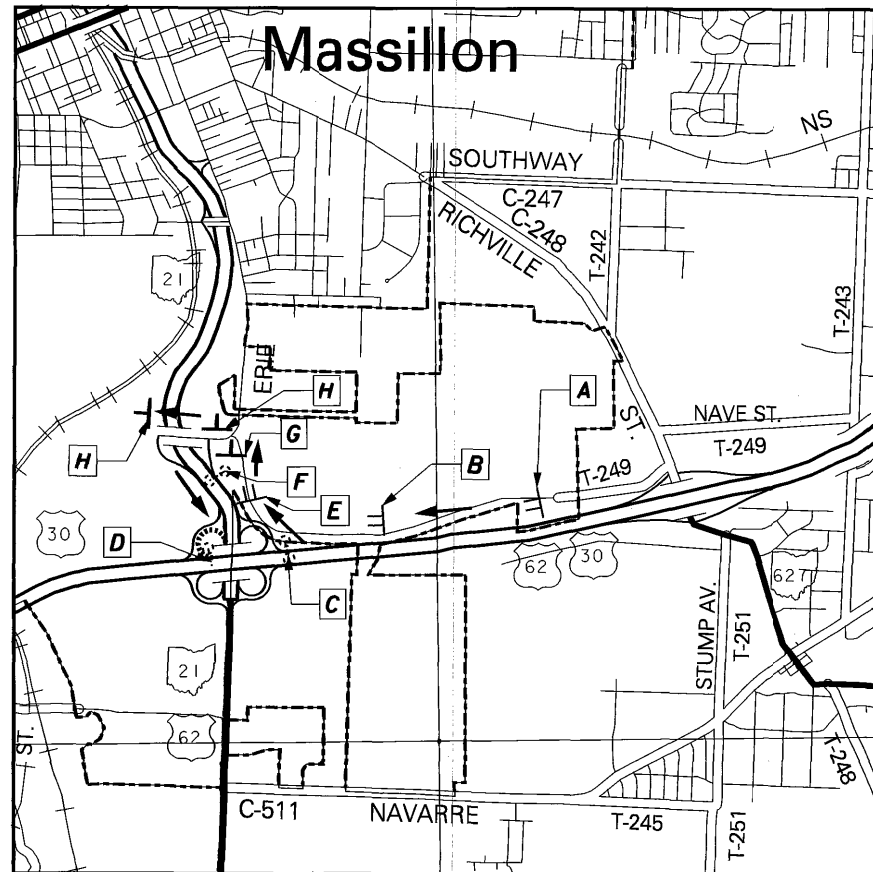
MAINTENANCE OF TRAFFIC GENERAL NOTES

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DETOUR MAP - RAMP K



(NOT TO SCALE)

LEGEND

- - - - - RAMP CLOSURE, USE TYPE III BARRICADES
- ← OFFICIAL SIGNED DETOUR: SR-21 NORTHBOUND / ERIE ST.

DETOUR

M4-8

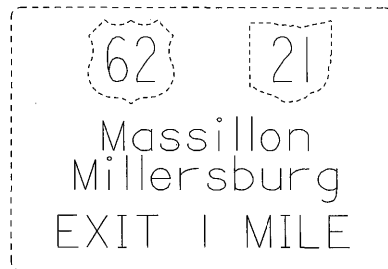
SOUTH

M3-3



M1-5

A



DETOUR

M4-8

SOUTH

M3-3



M1-5

B



DETOUR

M4-8

SOUTH

M3-3

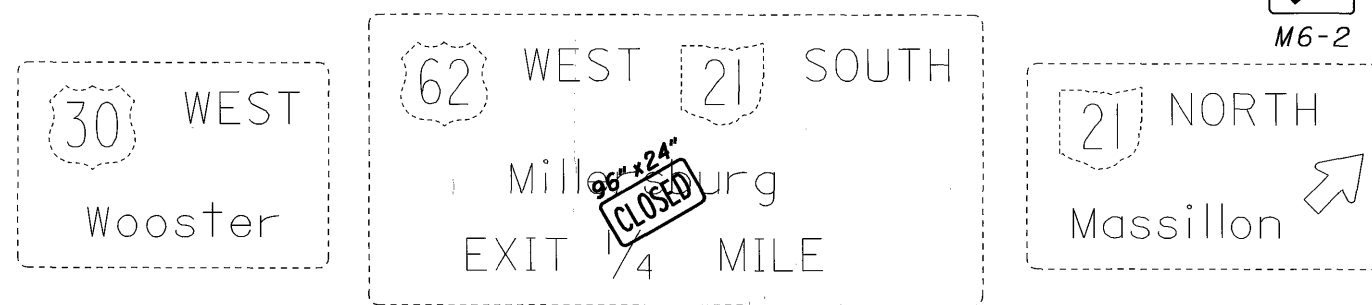


M1-5

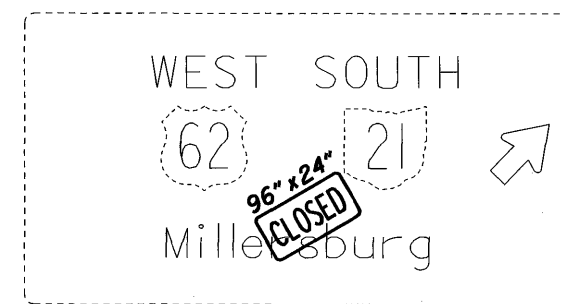


M6-2

C



D



DETOUR

M4-8

SOUTH

M3-3



M1-5

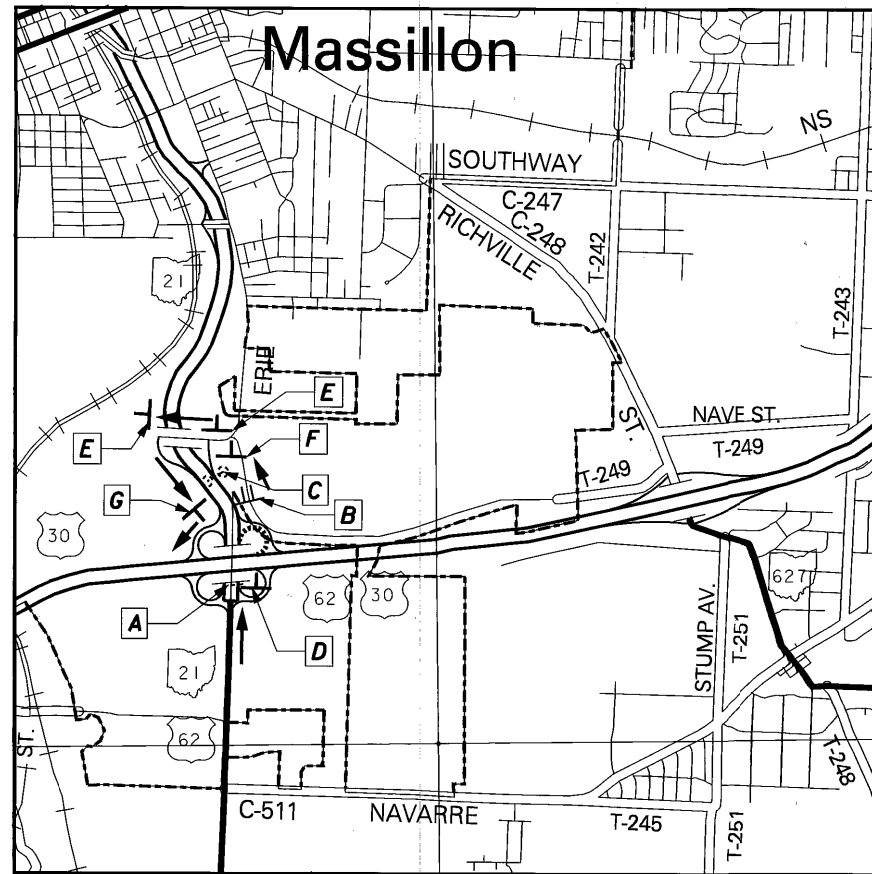
E



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MAINTENANCE OF TRAFFIC GENERAL NOTES

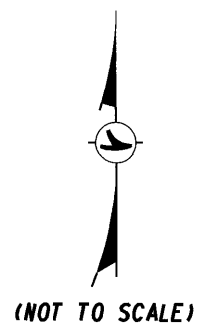
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DETOUR MAP - RAMP G

LEGEND

- - - - - RAMP CLOSURE, USE TYPE III BARRICADES
- ← OFFICIAL SIGNED DETOUR: SR-21 NORTHBOUND / ERIE ST.



Erie St
EXIT 1/2 MILE

30 WEST
96"x24"
CLOSED
Wooster ↗

A

DETOUR
M4-8
WEST
M3-4
30
M1-4

B

Erie St
NEXT RIGHT

DETOUR
M4-8
WEST
M3-4
30
M1-4
↗
M6-2

C

241
Edwin Ave
Oberlin Ave
EXIT 1/4 MILES

Erie St ↗

D

DETOUR
M4-8
WEST
M3-4
30
M1-4
↑
M6-3

F

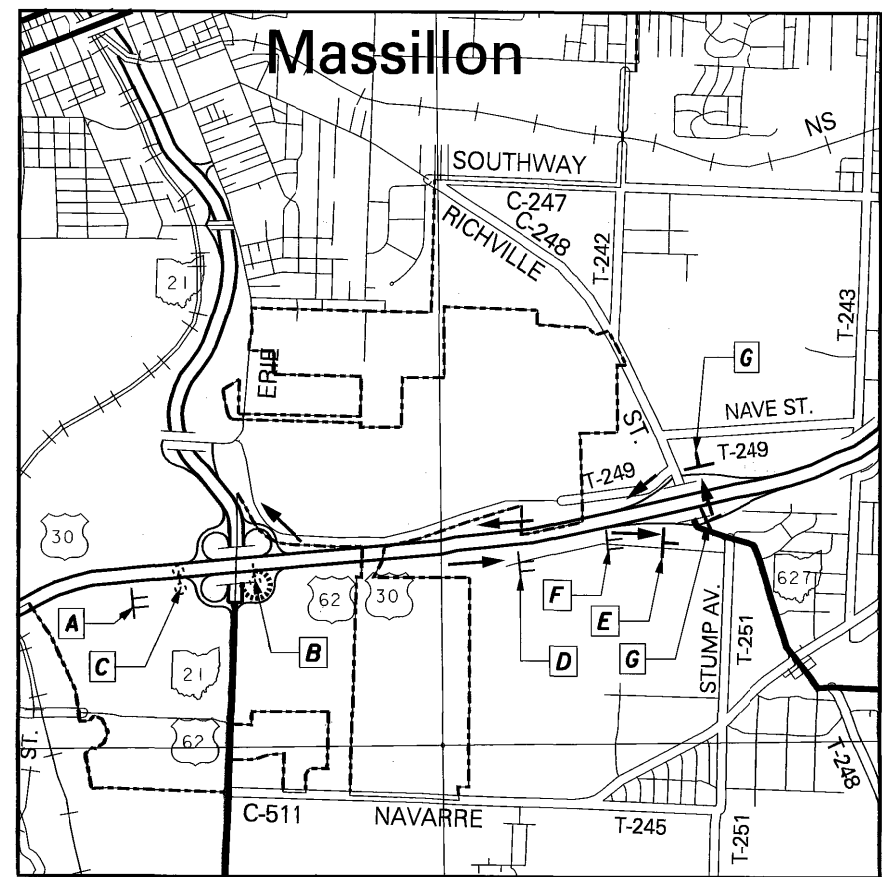
DETOUR
M4-8
WEST
M3-4
30
M1-4
↙
M5-1

E

DETOUR
M4-8
WEST
M3-4
30
M1-4
←
M6-1

G

DETOUR
M4-8
WEST
M3-4
30
M1-4
↗
M6-2



DETOUR MAP - RAMP F

LEGEND

- RAMP CLOSURE, USE TYPE III BARRICADES
- OFFICIAL SIGNED DETOUR: SR-21 NORTHBOUND / ERIE ST.



(NOT TO SCALE)

DETOUR
M4-8
NORTH
M3-1
21
MI-5

62 21
New Philadelphia
Massillon
EXIT 1 MILE

DETOUR
M4-8
NORTH
M3-1
21
MI-5

627
Richville Dr
EXIT 1 MILE

DETOUR
M4-8
NORTH
M3-1
21
MI-5
627
M6-2

Richville Dr

B

21 NORTH
96" x 24" CLOSED
Massillon

E

DETOUR
M4-8
NORTH
M3-1
21
MI-5
M5-1

G

DETOUR
M4-8
NORTH
M3-1
21
MI-5
M6-1

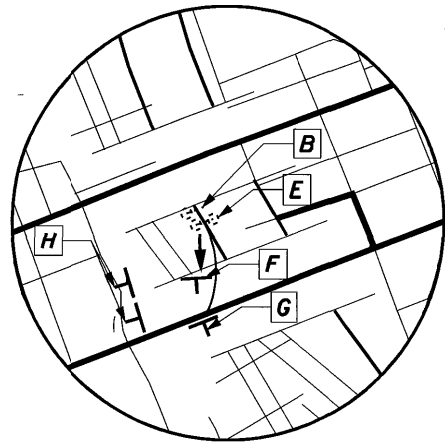
DETOUR
M4-8
NORTH
M3-1
21
MI-5

30 62 EAST
Canton

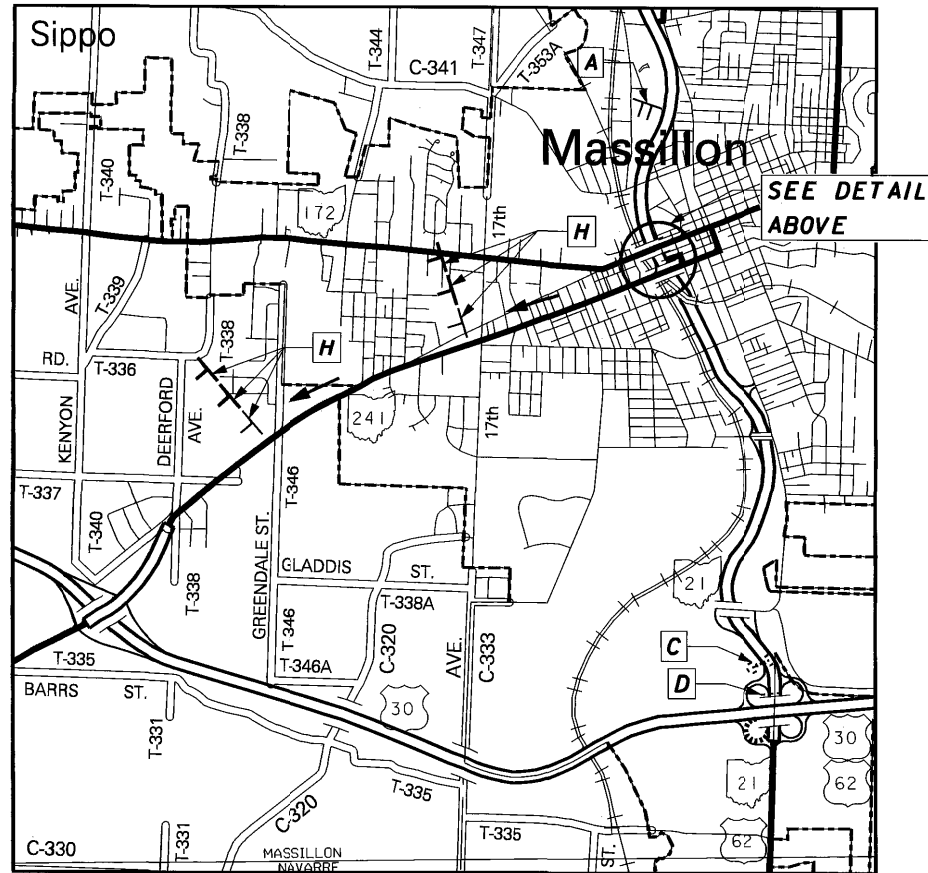
C

21 NORTH
96" x 24" CLOSED
EXIT 1/4 MILE

WEST SOUTH
62 21
New Philadelphia



DETAIL



DETOUR MAP - RAMP 1

LEGEND

- - RAMP CLOSURE, USE TYPE III BARRICADES
- ← - OFFICIAL SIGNED DETOUR: SR-21 NORTHBOUND / ERIE ST.

(NOT TO SCALE)

DETOUR M4-8 M4-8
 EAST EAST
 M3-2 M3-2
 30 62
 MI-4 MI-4

A

Oberlin Ave
 EXIT 1/4 MILE

D

30 62 EAST
 Canton
 96"x24" CLOSED

E

DETOUR M4-8 M4-8
 EAST EAST
 M3-2 M3-2
 30 62
 MI-4 MI-4
 ↗ ↗
 M6-2 M6-2

DETOUR M4-8 M4-8
 EAST EAST
 M3-2 M3-2
 30 62
 MI-4 MI-4
 ↗ ↗
 M6-2 M6-2

B

241
 Oberlin Ave
 ↗

30 62
 Wooster Canton
 EXITS 1/2 MILES

Erie St
 EXIT 1 MILE

241
 Oberlin Ave
 ↗

DETOUR M4-8 M4-8
 EAST EAST
 M3-2 M3-2
 30 62
 MI-4 MI-4
 ↗ ↗
 M5-1 M5-1

F

DETOUR M4-8 M4-8
 EAST EAST
 M3-2 M3-2
 30 62
 MI-4 MI-4
 → →
 M6-1 M6-1

G

DETOUR M4-8 M4-8
 EAST EAST
 SOUTH M3-2 M3-2
 241 30 62
 MI-4 MI-4
 ↑ ↑
 M6-3 M6-3

H

C

62 WEST 21 SOUTH
 New Philadelphia

30 EAST 62 EAST
 Canton
 96"x24" CLOSED
 EXIT 1/4 MILE

30 WEST
 Wooster
 ↗

CALCULATED
 MJH
 CHECKED

MAINTENANCE OF TRAFFIC GENERAL NOTES

STA-30/297-6.06 / 0.17

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GENERAL NOTES

1. It is intended that this drawing be used for treatment of drop-offs that develop during construction operations, and that are not otherwise provided for in the construction plans. Where the plans do not provide specific items for labor, equipment, or materials to implement the drop-off treatments specified herein, they shall be included for payment in the lump sum bid for Item 614 - Maintaining Traffic.

2. While the need for certain advisory signing is noted herein, it is not intended that this be indicative of all signing that may be required to advise or warn motorist, and all requirements of the Ohio Manual of Uniform Traffic Control Devices (OMUTCD) must be fulfilled.

3. In urban or otherwise heavily developed areas where pedestrians and/or bicyclists may be present in significant numbers, additional signing and protective measures other than those shown herein may be required.

4. The drop-off treatment selected for use at any given location shall be appropriate for the prevailing conditions at the site.

5. Where concrete barrier is specified, it shall be in accordance with Standard Construction Drawing PCB - 91, RM-4.2 and Item 622.

6. When drums are specified for a drop-off condition, a minimum number of four drums shall be used. Spacing shall be as indicated in the plans or as specified in the OMUTCD.

7. When W8-9 (Low Shoulder) signs or W8-11 (Uneven Lanes) and R4-9 (Stay in Lane) signs are required, they shall be placed 750' in advance of the condition, on all intersecting entrance ramps within the limits of the condition and immediately beyond all intersecting roadways within the limits of the condition. When the drop-off condition extends more than one-half mile, additional signs shall be erected at intervals of a maximum of one mile.

8. For locations, such as at ramps, lane shifts, lane closures, etc., where traffic is required to negotiate any difference in elevation between pavements, the Optional Wedge Treatment shall be provided.

9. Portable concrete barrier shall be placed on the same level as the traffic surface and shall not encroach on lane width(s) designated as the minimum required for traffic use. Where drums are used, and their presence would reduce traveled lane widths to less than 10', drums may be placed on the opposite level from that of traffic provided the drop-off depth does not exceed 5" and approval is granted by the Project Engineer.

10. Pavement Repairs (or similar work):

a. Lengths greater than 60 feet - utilize appropriate treatment from Condition 1.

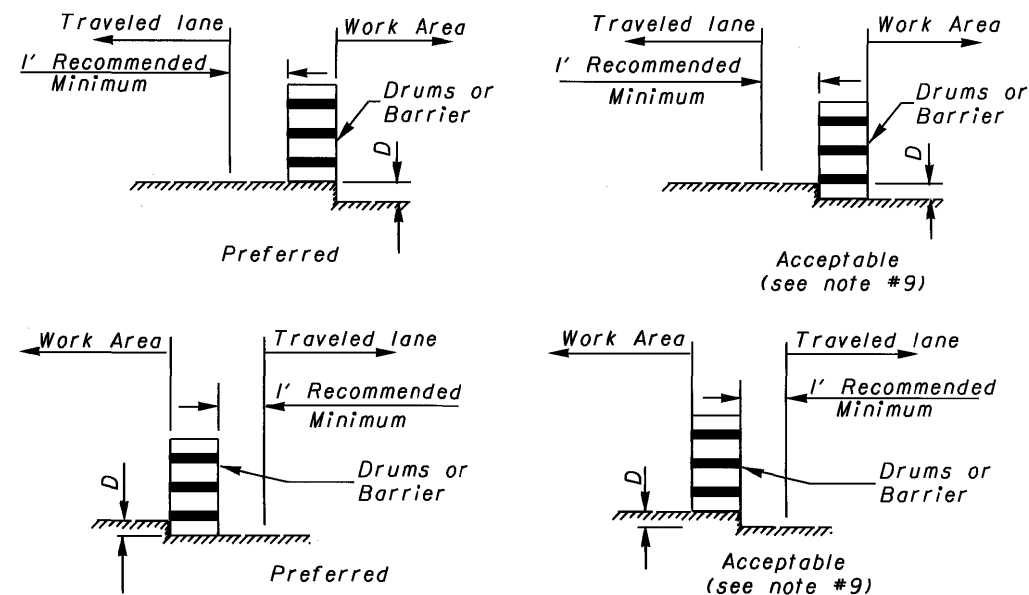
b. Lengths of 60 feet or less - repairs shall be affected in accordance with Item 255.08. Drums may be used as a separator adjacent to the traveled lane.

CONDITION I

1. These treatments are to be used for resurfacing, pavement planing excavation, etc., between, beside or within traveled lanes.

Distance From Traveled Lane	D (in)	Treatment
1FT-12FT	$\leq 1\frac{1}{2}$	Erect W8-11.
1FT-12FT	$1\frac{1}{2}$ -3	1. Lane closure utilizing drums* as shown below. (use only on 3 or more lanes) - or - 2. Optional Wedge Treatment.
1FT-12FT	3 - 5	Lane closure utilizing drums as shown below
1FT-12FT	5 - 12	Lane closure utilizing portable concrete barrier as shown below.
>12FT-20FT	12 - 24	Lane closure utilizing drums as shown below
>12FT-20FT	>24	Lane closure utilizing portable concrete barrier as shown below.

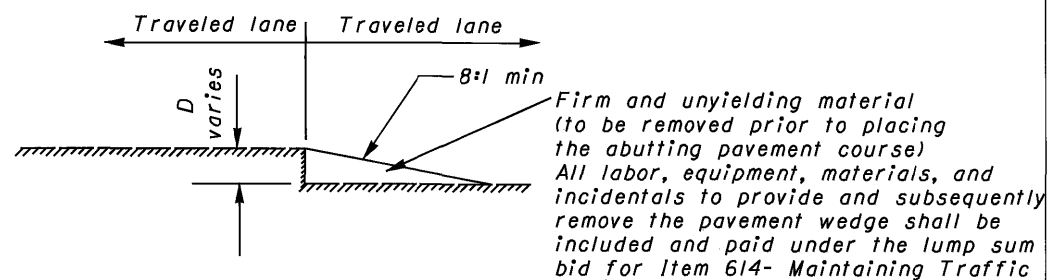
*Cones may be used for daytime only conditions.



OPTIONAL WEDGE TREATMENT

(MILLING OR RESURFACING)

1. This treatment may be used when permitted for Condition 1 only.
2. W8-11 and R4-9 signs required.



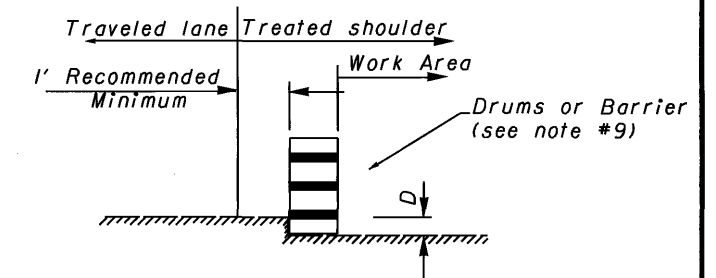
CONDITION II

DROPOFFS WITHIN GRADED SHOULDER AREA
[except for linear grading areas]

The treatments indicated below are for use in conjunction with resurfacing, planing, or excavation within the graded shoulder area.

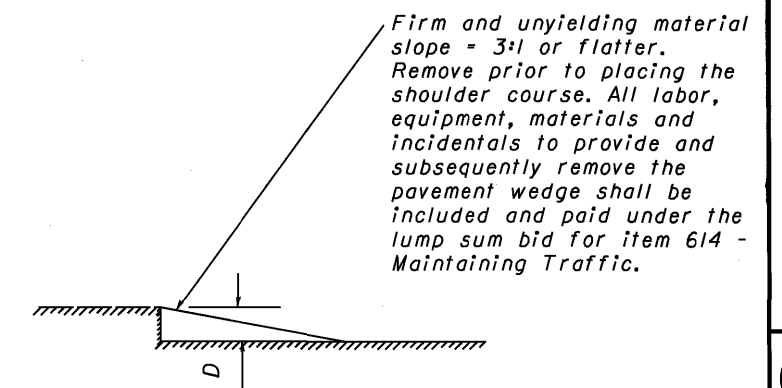
Distance From Traveled Lane	D (in)	Treatment
1FT-12FT	$\leq 1\frac{1}{2}$	1.) If edgelines are present, no treatment necessary. or 2.) Erect W8-11 and R4-9 signs
1FT-12FT	$1\frac{1}{2}$ - 5	1) If min. lane widths* requirements can be met, maintain lanes utilizing drums as shown below. - or - 2) If min. lane width* requirements cannot be met, close adjacent lane utilizing drums. (use only on 3 or more lanes) - or - 3) Optional shoulder treatment
>12FT-30FT	≤ 24	Shoulder closure utilizing drums as shown below
>12FT-30FT	>24	Shoulder closure utilizing portable concrete barrier as shown below.

*Minimum lane widths shall be 10' unless otherwise specified in the plans.



OPTIONAL SHOULDER TREATMENT

1. This treatment shall not be used within a bituminous shoulder where a hot longitudinal joint per 401.17 is required.
2. W8-9 signs required.



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SHEET NUMBER								PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED RCB	CHECKED
5	18	19	20	NHS	NON-NHS													
ROADWAY																		
				Lump				201	11000	LUMP		CLEARING AND GRUBBING						
	28			28				202	30700	28	FT	CONCRETE BARRIER REMOVED						
	16512.5			15437.5	1075			202	38000	16512.5	FT	GUARDRAIL REMOVED						
			985	985				202	54000	985	EACH	RAISED PAVEMENT MARKER REMOVED						
	12			12				203	10000	12	CU YD	EXCAVATION						
	171			160	11			209	60201	171	STATION	LINEAR GRADING, AS PER PLAN			5			
	15237.5			14287.5	950			606	13000	15237.5	FT	GUARDRAIL, TYPE 5						
	37.5			37.5				606	13050	37.5	FT	GUARDRAIL, TYPE 5A						
	28			28				606	22000	28	EACH	ANCHOR ASSEMBLY, TYPE B-98						
	9			7	2			606	22010	9	EACH	ANCHOR ASSEMBLY, TYPE E-98						
	21			19	2			606	26500	21	EACH	ANCHOR ASSEMBLY, TYPE T						
	25			25				606	35000	25	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1						
	11			11				606	35100	11	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2						
	100			100				622	10160	100	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D						
	2			2				622	10200	2	EACH	BARRIER TRANSITION						
	8			8				622	25000	8	EACH	CONCRETE BARRIER END SECTION, TYPE D						
EROSION CONTROL																		
	3252			3048	204			659	10000	3252	SQ YD	SEEDING AND MULCHING						
	0.44			0.41	0.03			659	20000	0.44	TON	COMMERCIAL FERTILIZER						
	0.67			0.63	0.04			659	31000	0.67	ACRE	LIME						
	18			17	1			659	35000	18	M GAL	WATER						
PAVEMENT																		
			7398	7122	276			251	01000	7398	SQ YD	PARTIAL DEPTH PAVEMENT REPAIR						
			369899	356102	13797			254	01000	369899	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE						
		12		12				301	46000	12	CU YD	ASPHALT CONCRETE BASE, PG64-22						
			55487	53417	2070			407	10000	55487	GALLON	TACK COAT						
			11473	11473				407	14000	11473	GALLON	TACK COAT FOR INTERMEDIATE COURSE						
			18723	17803	920			408	10001	18723	GALLON	PRIME COAT, AS PER PLAN			6			
			15422	14847	575			442	10050	15422	CU YD	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446)						
			13944	13944				442	10150	13944	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE B (446)						
		428		395	33			448	46061	428	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, UNDER GUARDRAIL, PG64-22, AS PER PLAN			5			
			2600	2472	128			617	10101	2600	CU YD	COMPACTED AGGREGATE, AS PER PLAN			6			

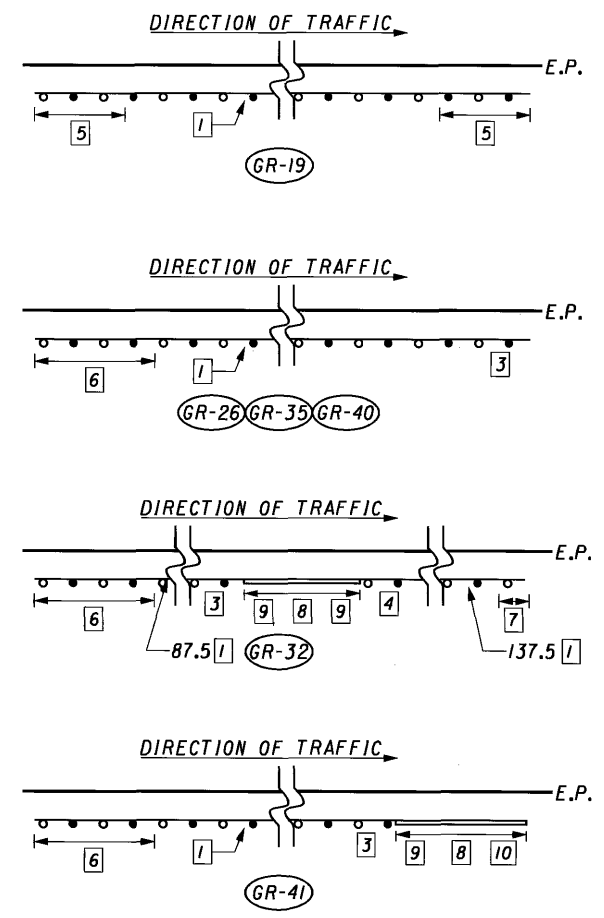
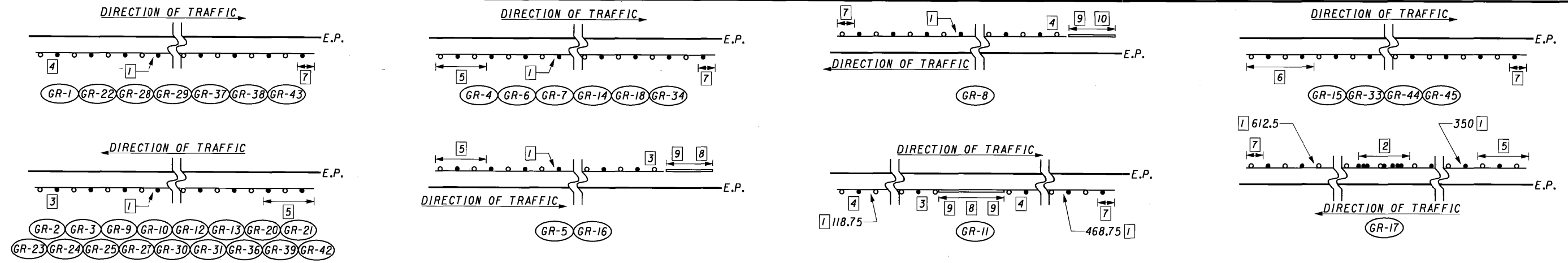
GENERAL SUMMARY

STA-30/297-6.06/0.17

SHEET NUMBER					PARTICIPATION			ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5	18	20	21	36	NHS	NON-NHS							
				624			621	10010	624	EACH	RPM, LOW PROFILE, WHITE		
				14			621	10020	14	EACH	RPM, LOW PROFILE WHITE/RED		
				35			621	10030	35	EACH	RPM, LOW PROFILE YELLOW/RED		
			286				626	00100	286	EACH	BARRIER REFLECTOR, TYPE A		
			6				626	00200	6	EACH	BARRIER REFLECTOR, TYPE B		
					2359.5		630	03100	2359.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		
					415.3		630	06400	415.3	FT	GROUND MOUNTED SUPPORT, S4 X 7.7 BEAM		
					64.3		630	06500	64.3	FT	GROUND MOUNTED SUPPORT, W6 X 9 BEAM		
					48.3		630	07000	48.3	FT	GROUND MOUNTED SUPPORT, W8 X 18 BEAM		
					290.5		630	07500	290.5	FT	GROUND MOUNTED SUPPORT, W10 X 22 BEAM		
					122.3		630	07600	122.3	FT	GROUND MOUNTED SUPPORT, W10 X 12 BEAM		
					377.0		630	08000	377.0	FT	GROUND MOUNTED SUPPORT, W12 X 30 BEAM		
					77.5		630	08004	77.5	FT	ONE WAY SUPPORT, NO. 3 POST		
					64		630	09000	64	EACH	BREAKAWAY BEAM CONNECTION		
					1		630	20600	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6		
					1		630	35500	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6		
					24		630	75000	24	EACH	SIGN ATTACHMENT ASSEMBLY, RIGID OVERHEAD		
					5		630	79500	5	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED		
					1704.1		630	80100	1704.1	SQ FT	SIGN, FLAT SHEET		
					2735.5		630	80200	2735.5	SQ FT	SIGN, GROUND MOUNTED EXTRUSHEET		
					1433.0		630	80224	1433.0	SQ FT	SIGN, OVERHEAD EXTRUSHEET		
					64		630	84500	64	EACH	GROUND MOUNTED BEAM SUPPORT FOUNDATION		
					3		630	84510	3	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION		
					200		630	84900	200	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
					5		630	85100	5	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		
					17		630	85400	17	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL		
					1		630	85600	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION		
					143		630	86002	143	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
					61		630	86102	61	EACH	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL		
					11		630	87400	11	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL		
					3		630	89808	3	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-18.26		
8					8		630	89902	8	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC CONTROL ITEM, BEAM SUPPORT FOUNDATION	5	
					10		631	94200	10	EACH	REMOVAL OF LUMINAIRE AND DISPOSAL		
					2		631	94304	2	EACH	REMOVAL OF DISCONNECT SWITCH AND DISPOSAL		
					6		631	94406	6	EACH	REMOVAL OF SIGNS WIRED		
					2		631	94412	2	EACH	REMOVAL OF SIGN SERVICE AND DISPOSAL		
				36.97		0.98	646	10000	36.97	MILE	EDGE LINE		
				15.36		0.73	646	10100	15.36	MILE	LANE LINE		
				5114		1310	646	10300	5114	FT	CHANNELIZING LINE		
				336		148	646	10400	336	FT	STOP LINE		
				609			646	10600	609	FT	TRANSVERSE/DIAGONAL LINE		
				15		15	646	20300	15	EACH	LANE ARROW		
9					9		SPECIAL	69099000	9	ACRE	MISC.: CLEARING GRUBBING	5,57	

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GENERAL SUMMARY STA-30/297-6.06/0.17



- LEGEND**
- 1 606, GUARDRAIL, TYPE 5
 - 2 606, GUARDRAIL, TYPE 5A
 - 3 606, BRIDGE TERMINAL ASSEMBLY, TYPE 1
 - 4 606, BRIDGE TERMINAL ASSEMBLY, TYPE 2
 - 5 606, ANCHOR ASSEMBLY, TYPE B-98
 - 6 606, ANCHOR ASSEMBLY, TYPE E-98
 - 7 606, ANCHOR ASSEMBLY, TYPE T
 - 8 622, CONCRETE BARRIER, SINGLE SLOPE, TYPE D (20' typ.)
 - 9 622, CONCRETE BARRIER END SECTION, TYPE D
 - 10 622, BARRIER TRANSITION (SEE PLAN INSERT SHEET)

NOTE:
SEE SCD RM-4.5 AND PLAN INSERT SHEET "BARRIER TO BARRIER TRANSITION" FOR ADDITIONAL DETAILS.
SEE SCHEMATIC PLAN FOR REFERENCE NUMBER LOCATIONS.
THE BARRIER DETAILS SHOWN HERE ARE REPRESENTATIVE OF THE PROPOSED BARRIER WORK AND MAY REQUIRE TO BE MIRRORED HORIZONTALLY OR VERTICALLY, BASED UPON THE DIRECTION OF TRAFFIC AT EACH LOCATION.

REF NO.	SIDE	202	202	203	209	301	448	606	606	606	606	606	606	606	622	622	622	626	COMMENTS FLARE RATIO 15:1 (TYP.)	
		CONCRETE BARRIER REMOVED	GUARDRAIL REMOVED	EXCAVATION	LINEAR GRADING, AS PER PLAN	6" ASP. CONC. BASE, PG64-22	2" ASP. CONC. INTERMED. COURSE, TYPE I, UNDER G-RAIL, PG64-22, AS PER PLAN	GUARDRAIL, TYPE 5	GUARDRAIL, TYPE 5A	ANCHOR ASSEMBLY, TYPE B-98	ANCHOR ASSEMBLY, TYPE E-98	ANCHOR ASSEMBLY, TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE 1	BRIDGE TERMINAL ASSEMBLY, TYPE 2	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	BARRIER TRANSITION	CONCRETE BARRIER, END SECTION, TYPE D	BARRIER REFLECTOR		
		FT	FT	CU YD	STATION	CU YD	CU YD	FT	FT	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH		TYPE A
GR-1	RT		1425		14.25		43.98	1412.5											16	
GR-2	MED LT		200		2.69		1.54	231.25											4	212.5' flare & arc per gr-6.1
GR-3	LT		300		3.06		4.63	268.75											5	150' flare & arc per gr-6.1
GR-4	RAMP L		537.5		5.38		10.8	487.5											7	150' flare & arc
GR-5	MED RT		125	1.68		1.68	1.54	62.5							20				2	44.25' flare & arc
GR-6	RAMP J		500		5		10.8	450											11	125' flare & arc
GR-7	RAMP K		275		2.75		8.49	225											7	
GR-8	LT @ RAMP K	14	500	0.99	4.63	0.99	14.27	450											11	
GR-9	MED RT		200		2.69		1.54	231.25											7	212.5' flare & arc per gr-6.1
GR-10	RAMP I		487.5		4.88		15.05	450											11	
GR-11	RT @ RAMP F		650	2.37	6	2.37	18.52	587.5						20					13	
GR-12	MED LT		200		2.69		1.54	231.25						20					7	212.5' flare & arc per gr-6.1
GR-13	RAMP G		337.5		3.38		10.42	300											5	
GR-14	RAMP F		400		4		12.35	350											5	
GR-15	RAMP E		550		5.5		16.98	487.5											7	
GR-16	MED LT		125	1.68		1.68	1.54	62.5						20					2	44.25' flare & arc
GR-17	RAMP H		1050		10.5		30.86	962.5	37.5										12	150' flare & arc per gr-6.1
GR-18	LT		125		1.25		1.54	75											4	50' flare & arc
GR-19	RAMP B		937.5		9.38		22.38	862.5		2									20	200' flare & arc per gr-6.1 leading end
GR-20	RT		400		4		12.35	362.5											9	
GR-21	MED RT		175		2.69		1.54	231.25											7	212.5' flare & arc per gr-6.1
GR-22	LT		375		3.75		11.57	362.5											9	
GR-23	RT		275		2.75		8.49	237.5											7	
GR-24	MED LT		175		2.69		1.54	231.25											4	212.5' flare & arc per gr-6.1
GR-25	LT		200		2.13		4.63	175											4	150' flare & arc per gr-6.1
GR-26	RT		250		2.5		7.72	200											4	
GR-27	MED RT		200		2.69		1.54	231.25											4	212.5' flare & arc per gr-6.1
GR-28	LT		162.5		1.63		5.02	150											3	
GR-29	RT		287.5		2.88		8.87	275											4	
GR-30	MED LT		200		2.69		1.54	231.25											4	212.5' flare & arc per gr-6.1
GR-31	LT		475		4.75		14.66	437.5											6	
GR-32	RT @ RAMP N		337.5	2.37	2.88	2.37	8.87	225						20					4	
GR-33	RAMP M		712.5		7.13		21.99	650											9	
GR-34	RAMP N		125		1.25		3.86	75											3	
GR-35	RT		250		2.5		7.72	200											4	
GR-36	MED RT		200		2.69		1.54	231.25											4	212.5' flare & arc per gr-6.1
GR-37	LT		175		1.75		5.4	162.5											3	
GR-38	RT		225		2.25		6.94	212.5											4	
GR-39	MED LT		200		2.69		1.54	231.25											4	212.5' flare & arc per gr-6.1
GR-40	LT		375		3.75		11.57	325											5	
GR-41	RT	14	262.5	1.98	2.13	1.98	6.56	162.5						20					4	
GR-42	MED RT		200		2.69		1.54	231.25											4	212.5' flare & arc per gr-6.1
GR-43	LT		275		2.75		8.49	262.5											4	
GR-44	SR 297 WB LT		400		4		12.35	337.5											5	
GR-45	SR 297 WB RT		675		6.75		20.83	612.5											8	
TO GEN. SUM.		28	16512.5	12	171	12	428	15237.5	37.5	28	9	21	25	11	100	2	8	286	6	

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ROUTE	S.L.M.		LENGTH		WP AVG.	PAVEMENT AREA	PAVEMENT DATA										COMMENTS
							251	254	407		407	408	442		617		
							PARTIAL DEPTH PAVEMENT REPAIR	PAVEMENT PLANING, ASPHALT CONCRETE	TACK COAT	TACK COAT FOR INTERMED. COURSE	PRIME COAT, AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE B (446)	ASPHALT CONCRETE INTERMED. COURSE, 19mm, TYPE B (446)	COMPACTED AGGREGATE, AS PER PLAN			
FROM	TO	MILES	FEET	FEET	SQ. YD.	S. Y.	THK. IN.	S. Y.	0.075 GAL/SY	0.15 GAL/SY	0.04 GAL/SY	0.4 GAL/SY	1/2" AVG. THICKNESS	AVG. THK. IN.	C. Y.	C. Y.	
US 30	6.06	6.71	0.65	3432	72	27456	549	2 1/2	27456		4118	1098	1220	1144	1 3/4	1335	169
US 30	6.80	7.69	0.89	4699	72	37592	752	2 1/2	37592		5639	1504	1671	1567	1 3/4	1828	232
US 30	7.73	9.58	1.85	9768	72	78144	1563	2 1/2	78144		11722	3126	3473	3256	1 3/4	3799	482
US 30	9.60	10.32	0.72	3802	72	30416	608	2 1/2	30416		4562	1217	1352	1268	1 3/4	1479	188
US 30	10.34	12.57	2.23	11774	72	94192	1884	2 1/2	94192		14129	3768	4186	3925	1 3/4	4579	581
US 30	12.60	13.05	0.45	2376	72	19008	380	2 1/2	19008		2851	760	845	792	1 3/4	924	117
SR 297	0.17	0.66	0.49	2587	48	13797	276	1 1/2	13797		2070		920	575			128
RAMP QUANTITIES INCLUDING ACCEL/DECEL LANES (FROM STA-30-0.00, CONSTRUCTION PLAN 870438)																	
RAMP A @ SR 627					16	4913	98	1 1/2	4913		737		356	205			49
RAMP B @ SR 627					16	3780	76	1 1/2	3780		567		280	158			39
RAMP C @ SR 627					16	4474	89	1 1/2	4474		671		329	187			46
RAMP D @ SR 627					16	5891	118	1 1/2	5891		884		409	246			57
RAMP E @ SR 21					16	6444	129	1 1/2	6444		967		284	269			40
RAMP F @ SR 21					16	5174	103	1 1/2	5174		776		372	216			52
RAMP G @ SR 21					16	3145	63	1 1/2	3145		472		310	132			43
RAMP H @ SR 21					16	6885	138	1 1/2	6885		1033		439	287			61
RAMP I @ SR 21					16	3246	65	1 1/2	3246		487		350	136			49
RAMP J @ SR 21					16	3258	65	1 1/2	3258		489		299	136			41
RAMP K @ SR 21					16	6530	131	1 1/2	6530		979		551	273			77
RAMP L @ SR 21					16	5570	111	1 1/2	5570		836		389	233			54
RAMP M @ WHIPPLE AVE.					16	5241	105	1 1/2	5241		786		391	219			54
RAMP N @ WHIPPLE AVE.					16	4743	95	1 1/2	4743		712		297	198			41
TOTALS CARRIED TO GENERAL SUMMARY							7398		369899		55487	11473	18723	15422	13944	2600	

1 408 & 617 ARE CALCULATED BASED ON 4 SIDES ALONG MAINLINE AND 2 SIDES ALONG RAMPS
 2 ACCEL/DECEL 408 & 617 ARE CALCULATED WITH MAINLINE

SERVICE ROADS BOTH SIDES OF U.S. 30

2
2
2
2
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2
2
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2
2
2
2
2

CALCULATED RCB CHECKED TJP
 ASPHALT CONCRETE
 U.S. 30 - SLM 6.06 TO SLM 13.05, S.R. 297 - SLM 0.17 TO SLM 0.66
 STA-30/297-6.06/0.17
 19
60

CENTER LINE

GENERAL SPEC. 640
MATERIAL TYPE : 646 - EPOXY

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	TOTAL MILES	EQUIVALENT SOLID LINE	COMMENTS
TOTAL								

LANE LINE

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	TOTAL MILES	4" LANE LINE		COMMENTS
							DASHED	SOLID	
STA	30	6.06	MASSILLON WEST CORP.	13.10	CANTON WEST CORP.	14.63			*INCLUDES RAMPS
STA	297	0.66	SERVICE ROAD "C"	0.17	SERVICE ROAD "C"	0.36			
STA	297	0.17	SERVICE ROAD "B"	0.66	SERVICE ROAD "B"	0.37			
TOTAL						15.36			

EDGE LINE

COUNTY	ROUTE	TRU LOG	FROM	TRU LOG	TO	WHITE EDGE LINE			YELLOW EDGE LINE			COMMENTS
						TOTAL MILES	HIGH-WAY	RAMP	TOTAL MILES	HIGH-WAY	RAMP	
STA	30	6.06	MASSILLON WEST CORP.	13.10	CANTON WEST CORP.	19.93	14.08	5.85	17.04	14.08	2.96	
STA	297	0.66	SERVICE ROAD "C"	0.17	SERVICE ROAD "C"			0.49			0.49	
STA	297	0.17	SERVICE ROAD "B"	0.66	SERVICE ROAD "B"			0.49			0.49	
TOTAL						19.93	14.08	6.83	17.04	14.08	3.94	

AUXILIARY

COUNTY	ROUTE LOCATION	TRU LOG	CHANNEL LINE	STOP LINE	TRANSVERSE DIAGONAL LINES		CROSS-WALK LINES	WORD ON PAVEMENT		LANE ARROWS				SYMBOL MARKINGS		ISLAND MARKINGS	DOTTED LINES	COMMENTS
					WHITE	YELLOW		ONLY		R x R	SCHOOL							
								72"	96"		TURN LEFT	TURN RIGHT	THRU	COMB.	72"			
					FT	FT		FT	FT	FT	EACH	EACH	EACH	EACH	EACH			
STA	US 30 EB TO US 62/SR21 SB	7.300	400	62	200													
STA	SR 21 SB TO US 30 WB	7.259	210															
STA	US 30 WB TO US 62/SR 21 SB	7.464	415		125													
STA	SR 21 SB TO US 30 EB	7.416	115															
STA	US 30 EB TO SR 21 NB	8.014	344		139													
STA	US 62/SR 21 NB TO US 30 WB	7.927	65															
STA	US 30 WB TO SR 21 NB	8.089	360		145													
STA	US 62/SR 21 NB TO US 30 EB	8.159	169															
STA	US 30 EB TO RICHVILLE DR.	9.296	372	65														
STA	US 30 WB FROM RICHVILLE DR.	9.200	172															
STA	US 30 WB TO RICHVILLE DR.	9.940	412	61														
STA	US 30 EB FROM RICHVILLE DR.	10.064	194															
STA	US 30 EB OFF RAMP TO WHIPPLE AVE.	12.419	374															
STA	US 30 WB ON RAMP FROM WHIPPLE AVE.	12.333	202															
STA	SR 297 WB SERVICE ROAD AT WHIPPLE AVE.	0.170	610	72														
STA	SR 297 EB SERVICE ROAD AT RAFF RD.	0.660	700	76														
TOTAL			5114	336	609					15								

CALCULATED
TJD
CHECKED

PLAN No.

PAVEMENT MARKING SUB-SUMMARY

STA-30/297-6.06/0.17

21
60

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15 34
DISTRICT 4

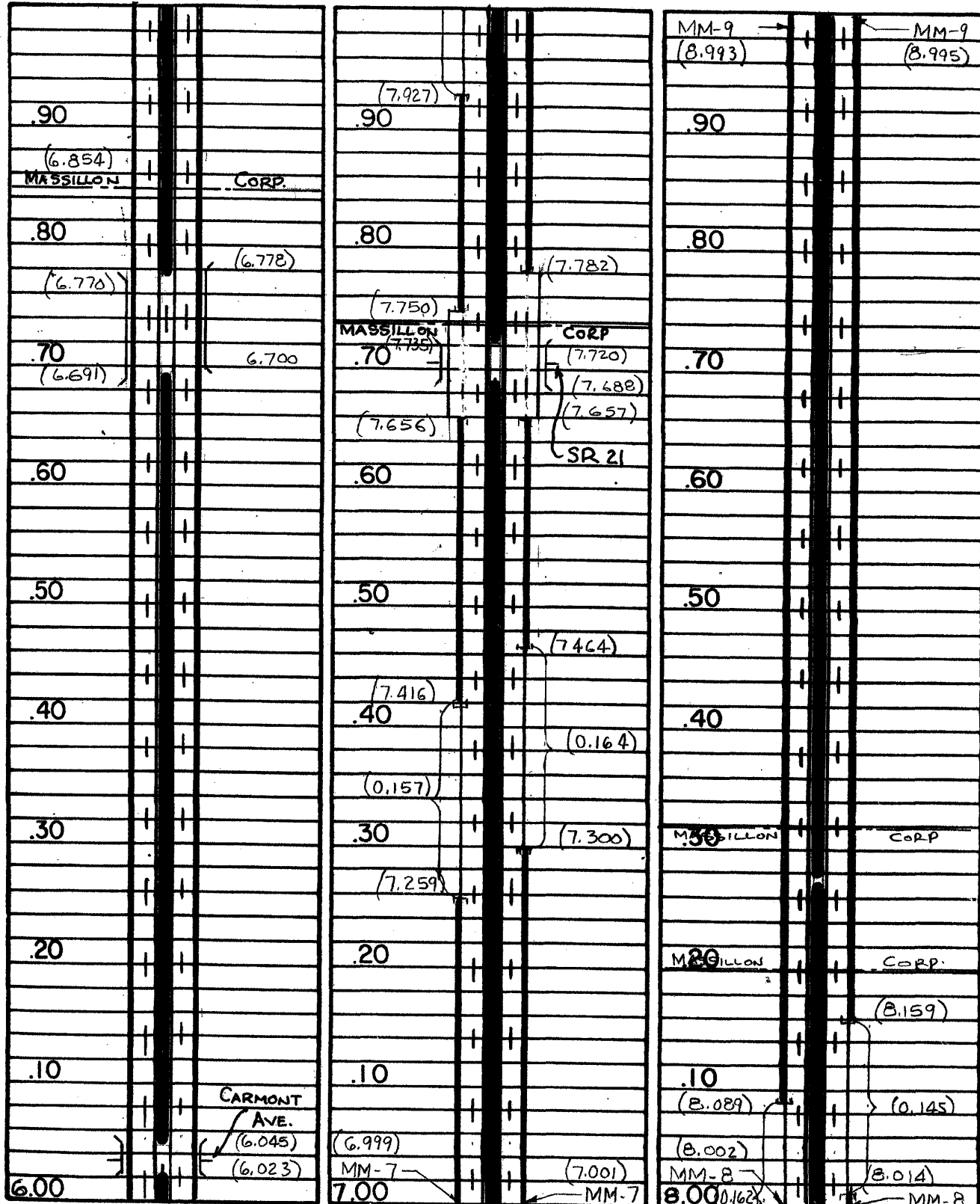


Center Line Log Record and Field Sheet

COUNTY STARK ROUTE 30

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____

SHEET 3 OF 11



Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____

TOTAL YELLOW THIS PAGE: SOLID _____, DASH _____, EQUIVALENT LINE _____

15 34
DISTRICT 4

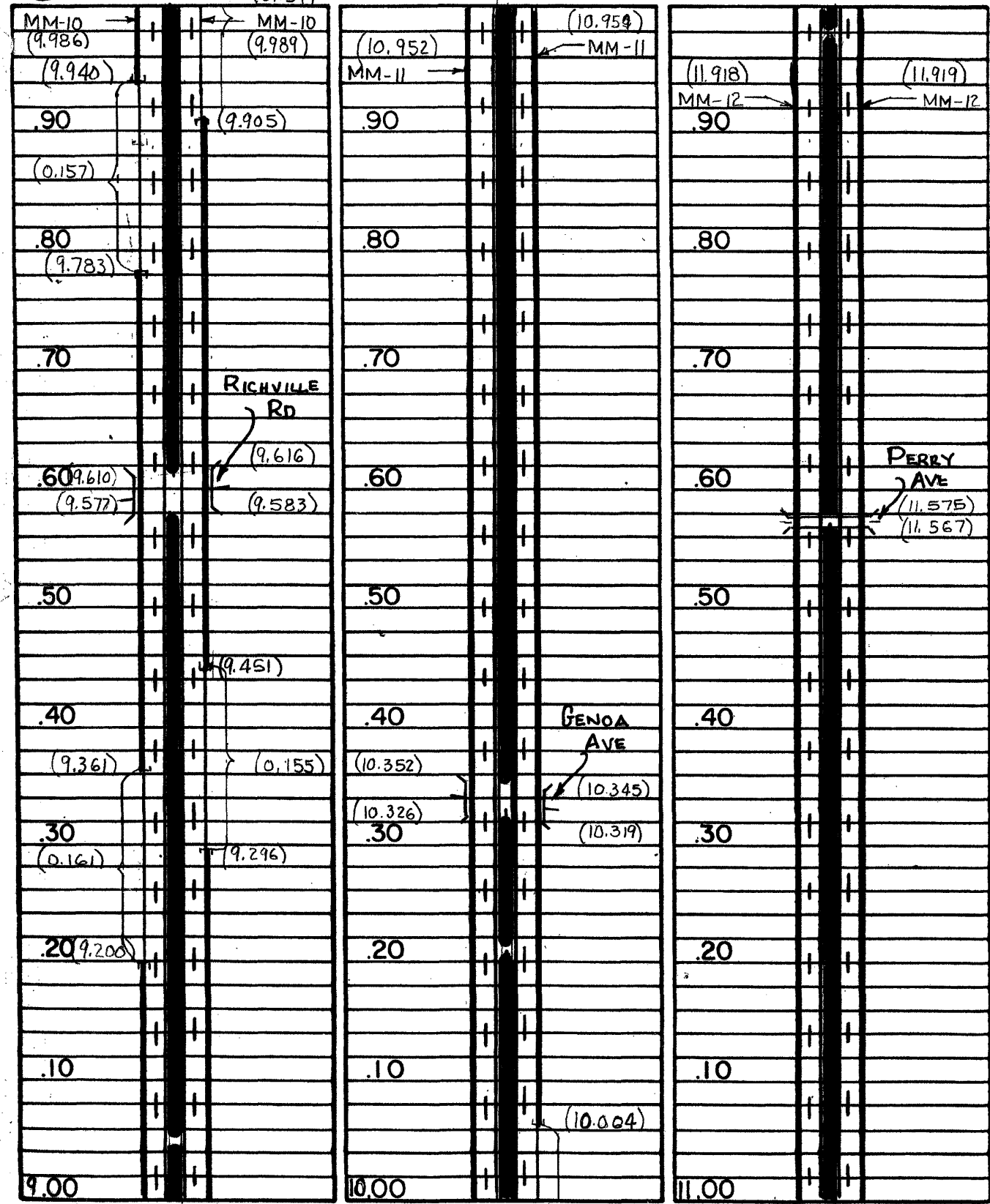


Center Line Log Record and Field Sheet

COUNTY STARK ROUTE 30

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____

SHEET 4 OF 11



Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____

TOTAL YELLOW THIS PAGE: SOLID _____, DASH _____, EQUIVALENT LINE _____

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PAVEMENT MARKINGS

STA-30/297-6.06/0.17

22
60

CALCULATED
LMB
CHECKED

TS 54
DISTRICT 4

Center Line Log Record and Field Sheet
COUNTY STARK ROUTE 30

SHEET 3 OF 11

Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____



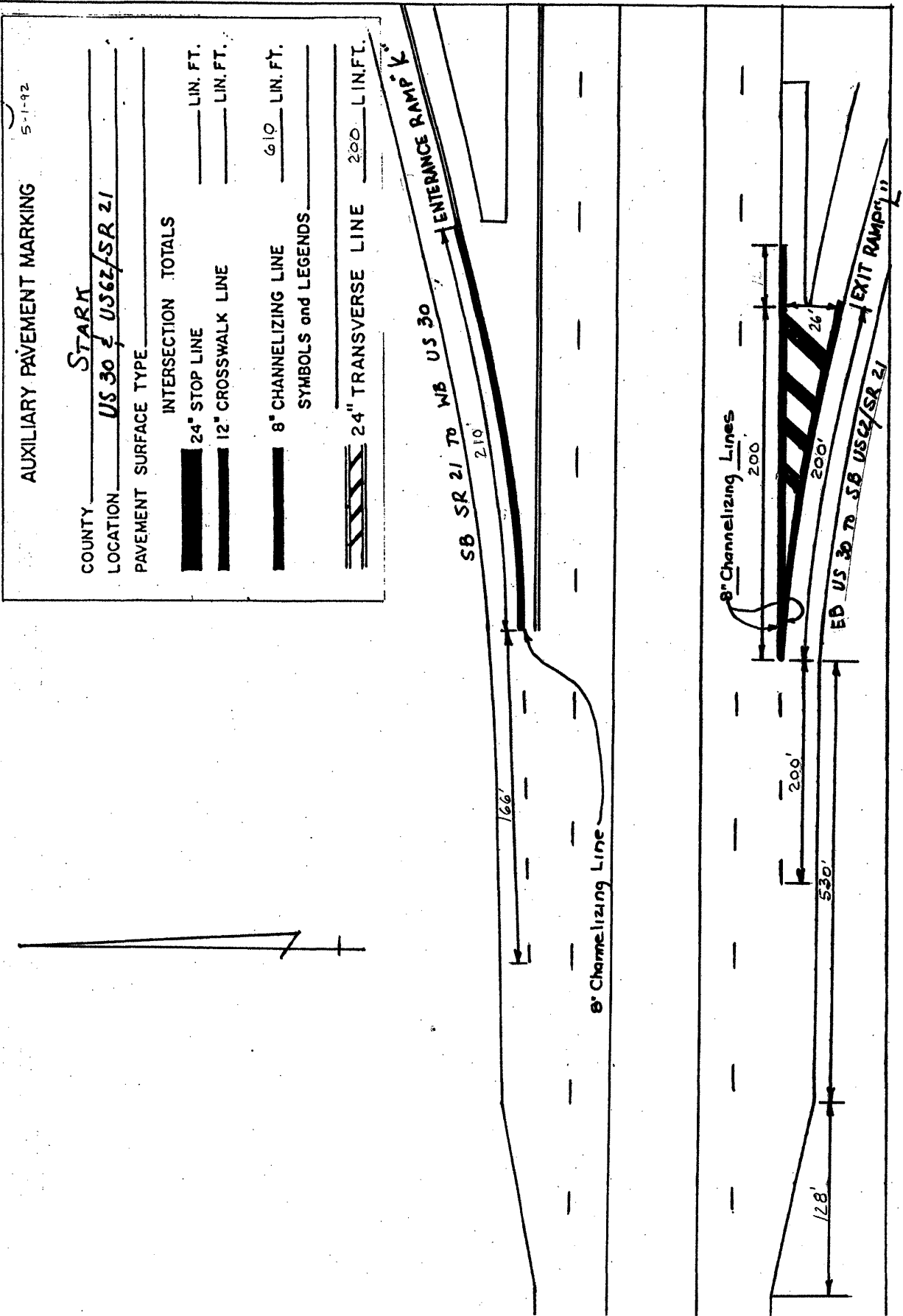
.90				.90				.90			
(12.866)				(12.865)							
MM-13				MM-13							
.80				.80				.80			
.70				.70				.70			
.60				.60				.60			
.50				.50				.50			
.40				.40				.40			
.30				.30				.30			
.20				.20				.20			
.10				.10				.10			
12.00				13.00				.00			

WHIPPLE
AVE

CANTON CORP

RAFF
RD

Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____ Yellow: Solid _____ Dash _____
TOTAL YELLOW THIS PAGE: SOLID _____, DASH _____, EQUIVALENT LINE _____



AUXILIARY PAVEMENT MARKING 5-1-92

COUNTY STARK

LOCATION US 30 & US 62/SR 21

PAVEMENT SURFACE TYPE _____

INTERSECTION TOTALS _____ LIN. FT.

24" STOP LINE _____ LIN. FT.

12" CROSSWALK LINE _____ LIN. FT.

8" CHANNELIZING LINE _____ 610 LIN. FT.

SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE _____ 200 LIN. FT.

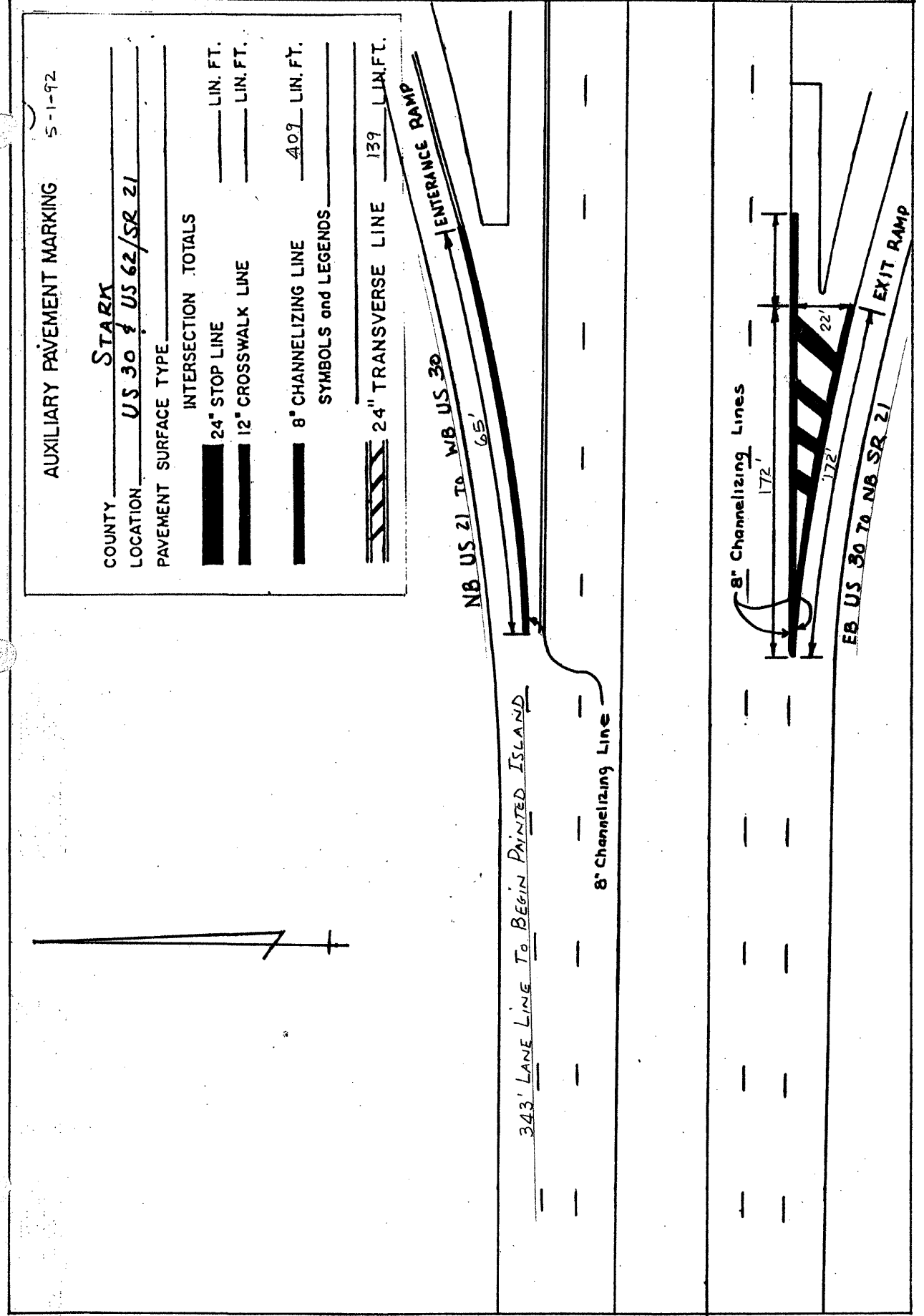
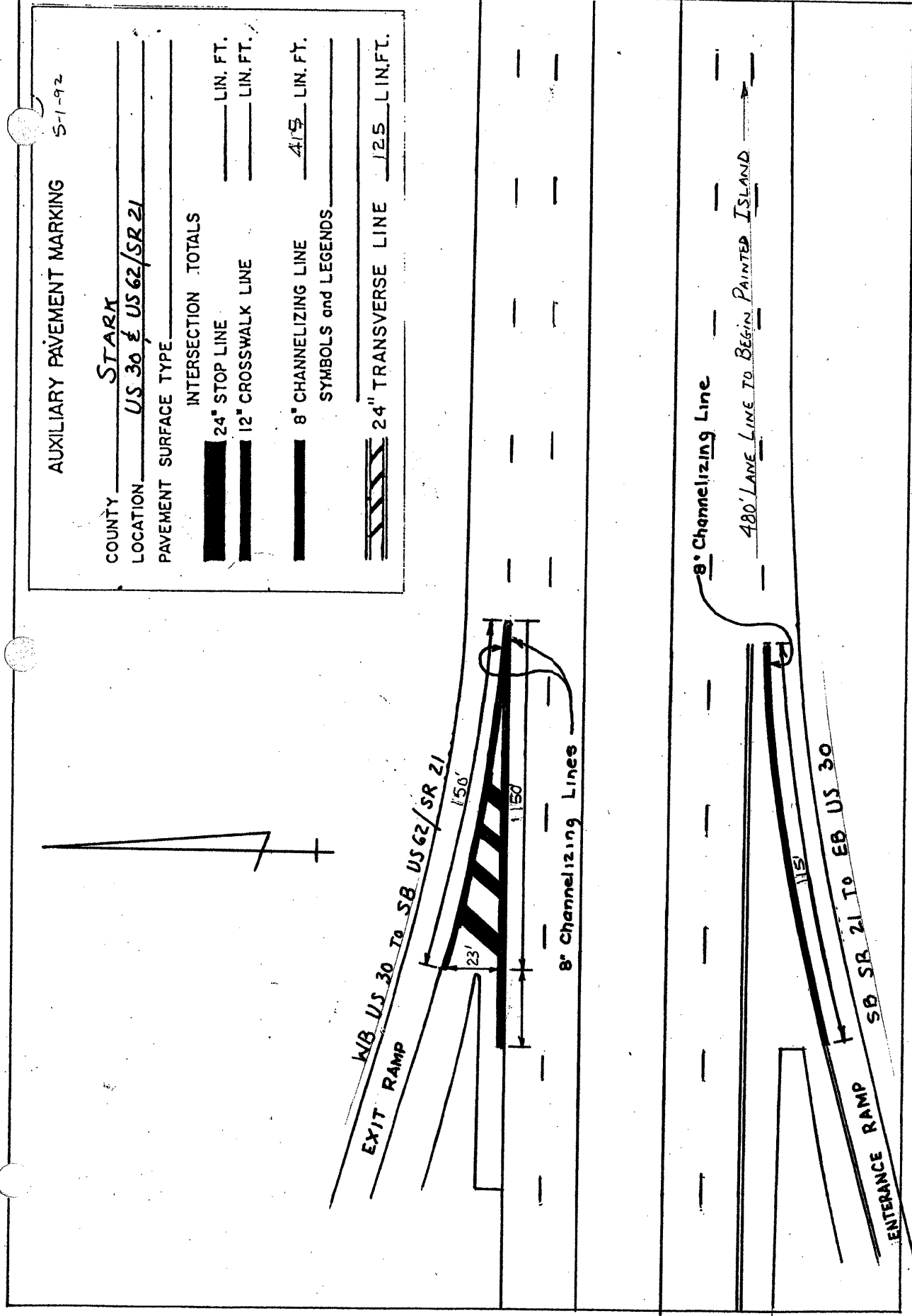
CALCULATED
LMB
CHECKED

PAVEMENT MARKINGS

STA-30/297-6.06 / 0.17

23
60

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AUXILIARY PAVEMENT MARKING 5-1-92

COUNTY STARK

LOCATION US 30 & US 62/SR 21

PAVEMENT SURFACE TYPE _____

INTERSECTION TOTALS _____ LIN. FT.

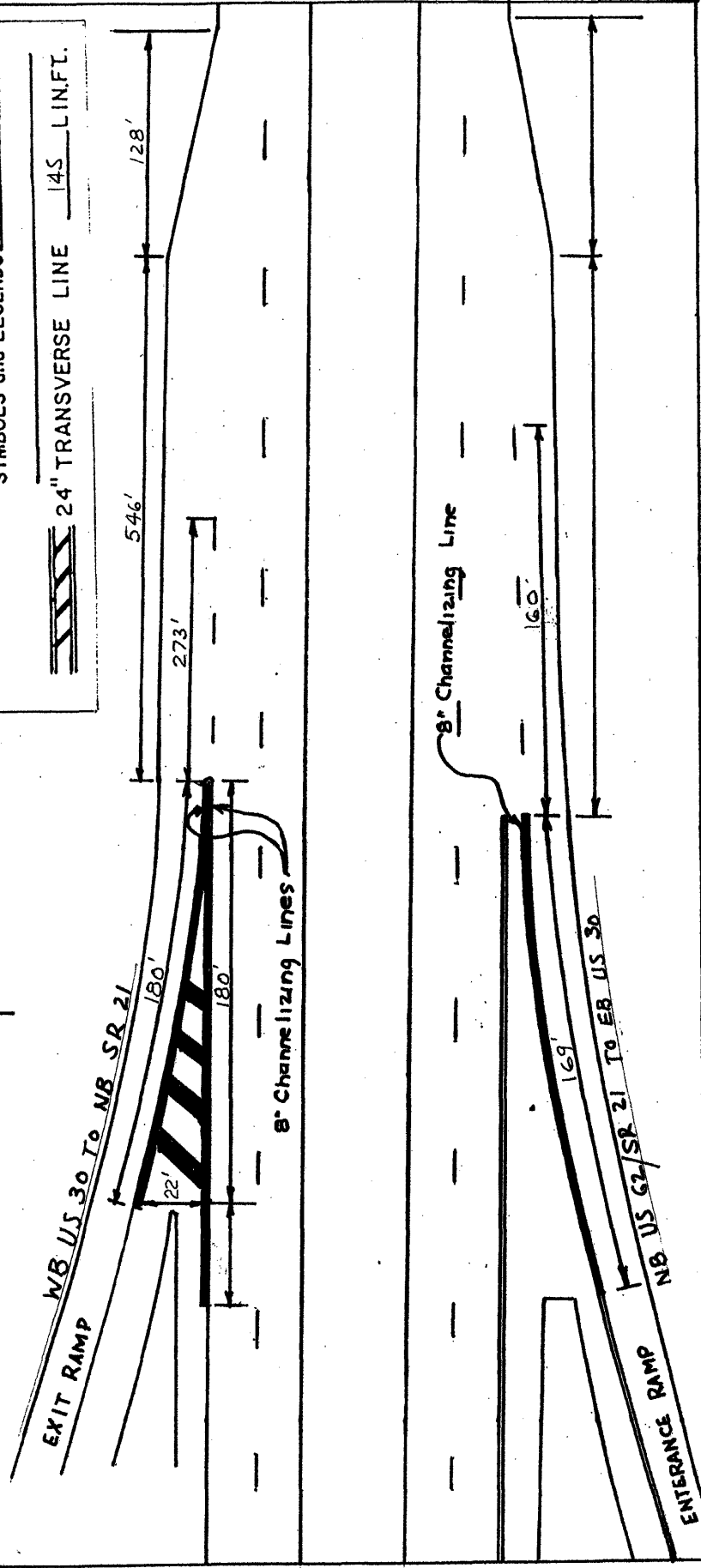
24" STOP LINE _____ LIN. FT.

12" CROSSWALK LINE _____ LIN. FT.

8" CHANNELIZING LINE 529 LIN. FT.

SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE 145 LIN. FT.



AUXILIARY PAVEMENT MARKING

COUNTY STARK

LOCATION US 30 EB Off Ramp & SR 21

PAVEMENT SURFACE TYPE _____

INTERSECTION TOTALS _____ LIN. FT.

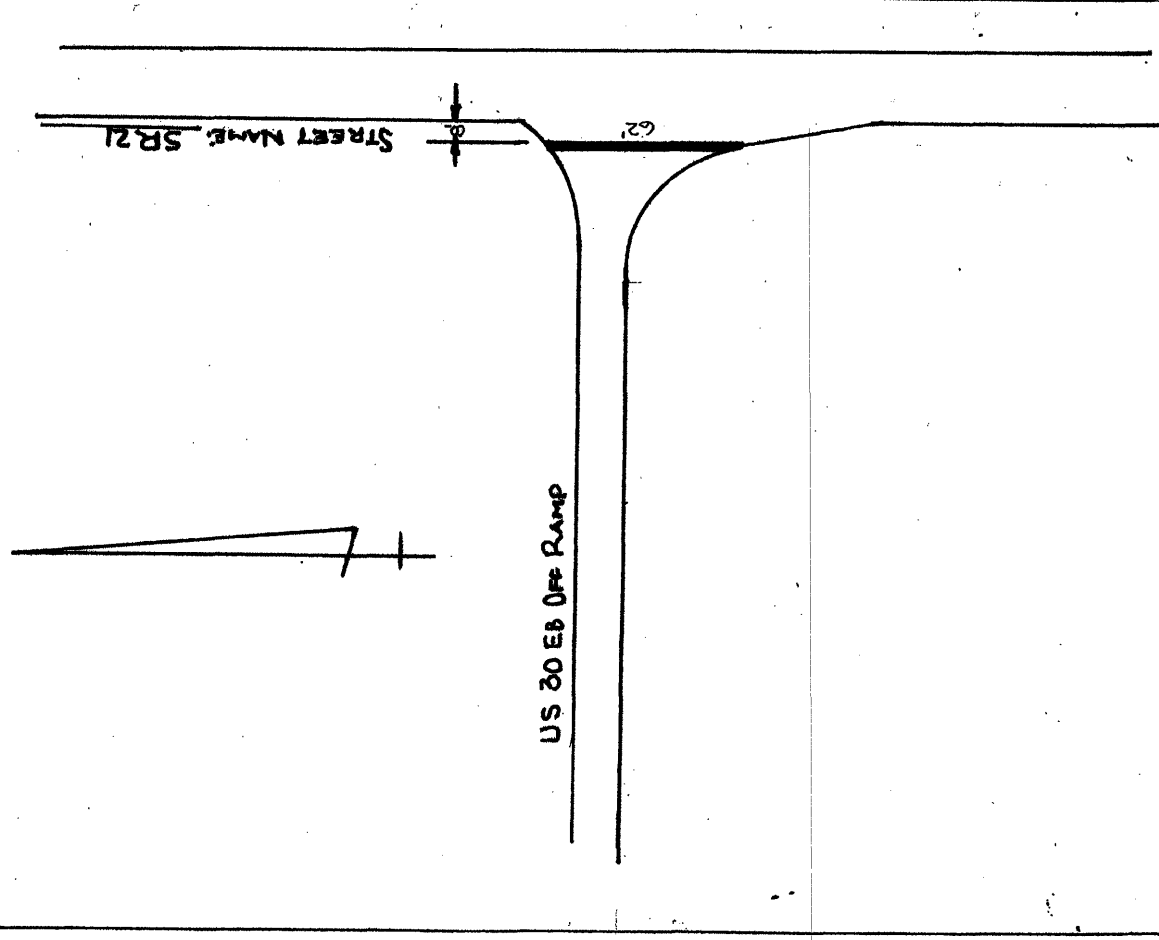
24" STOP LINE 62 LIN. FT.

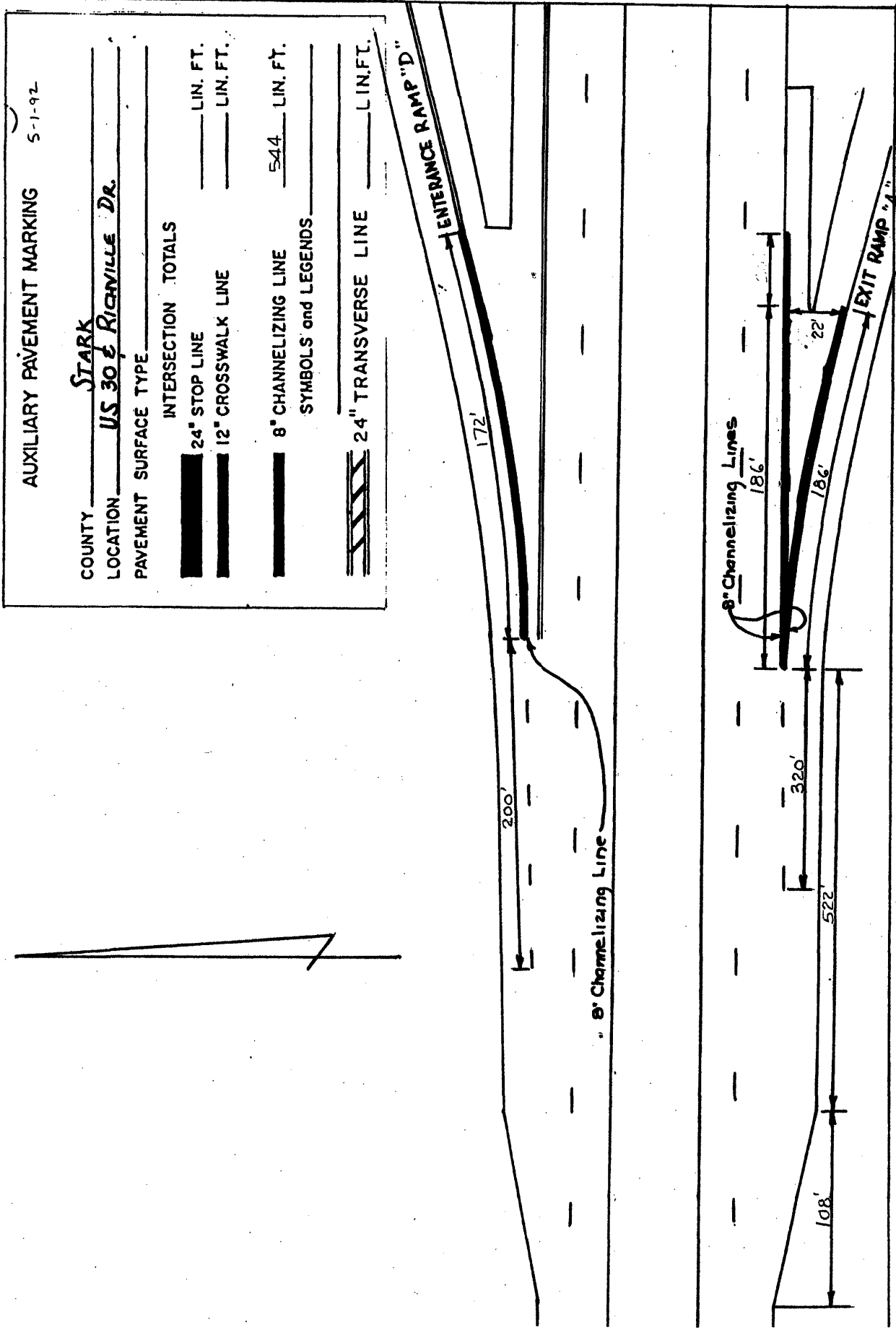
12" CROSSWALK LINE _____ LIN. FT.

8" CHANNELIZING LINE _____ LIN. FT.

SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE _____ LIN. FT.





AUXILIARY PAVEMENT MARKING 5-1-92

COUNTY STARK

LOCATION US 30 & RICHVILLE DR.

PAVEMENT SURFACE TYPE _____

INTERSECTION TOTALS _____ LIN. FT.

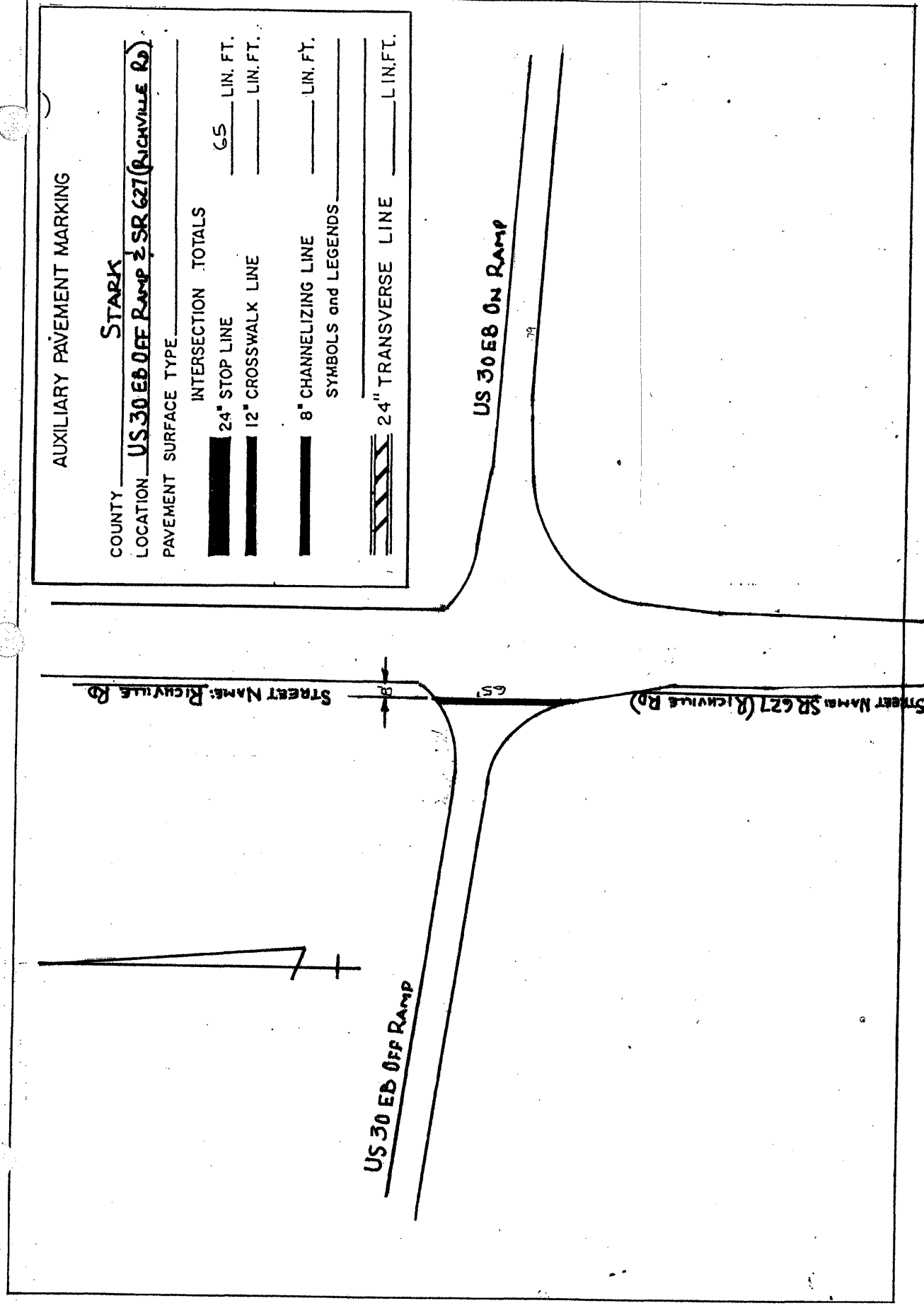
24" STOP LINE _____ LIN. FT.

12" CROSSWALK LINE _____ LIN. FT.

8" CHANNELIZING LINE _____ 544 LIN. FT.

SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE _____ LIN. FT.



AUXILIARY PAVEMENT MARKING

COUNTY STARK

LOCATION US 30 EB OFF RAMP & SR 627 (RICHVILLE RD)

PAVEMENT SURFACE TYPE _____

INTERSECTION TOTALS _____ LIN. FT.

24" STOP LINE _____ 65 LIN. FT.

12" CROSSWALK LINE _____ LIN. FT.

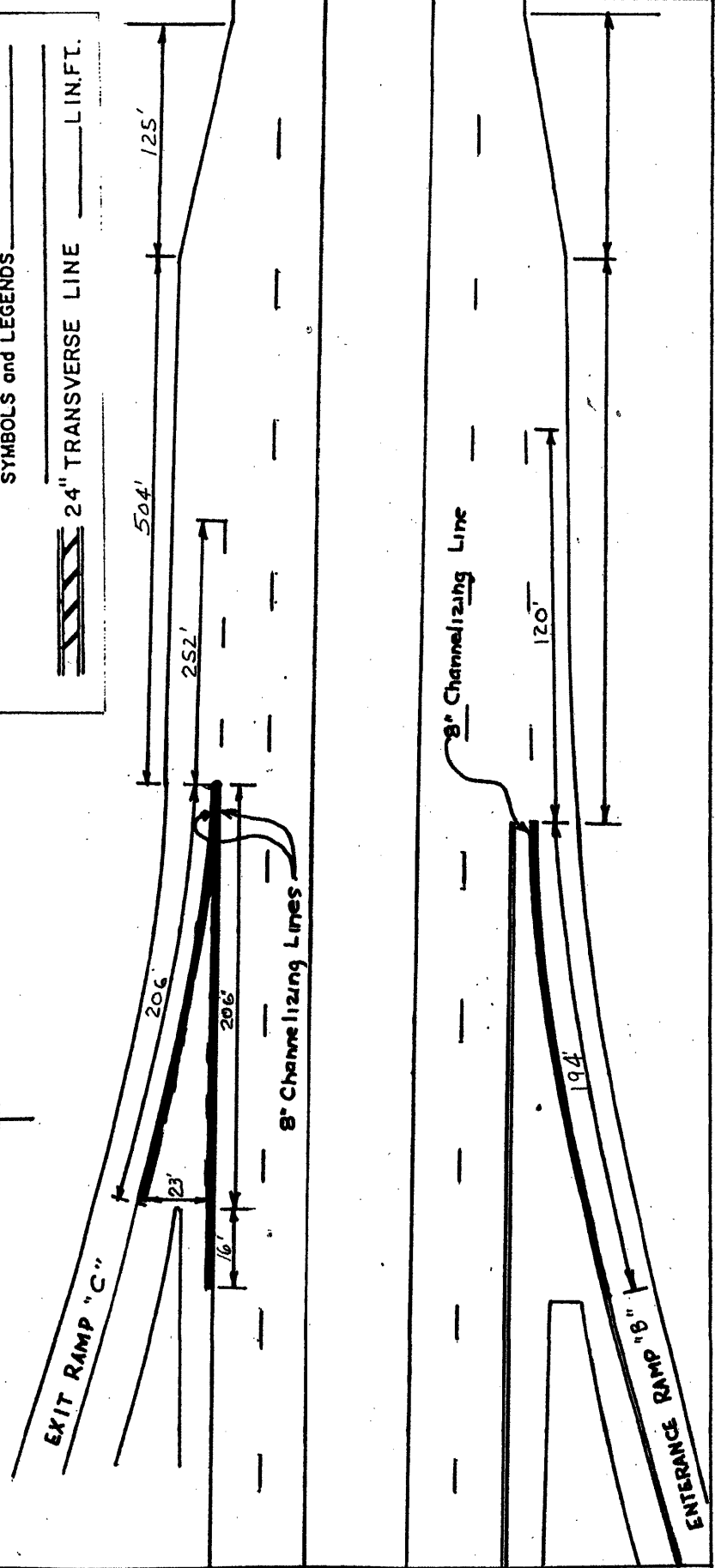
8" CHANNELIZING LINE _____ LIN. FT.

SYMBOLS and LEGENDS _____

24" TRANSVERSE LINE _____ LIN. FT.

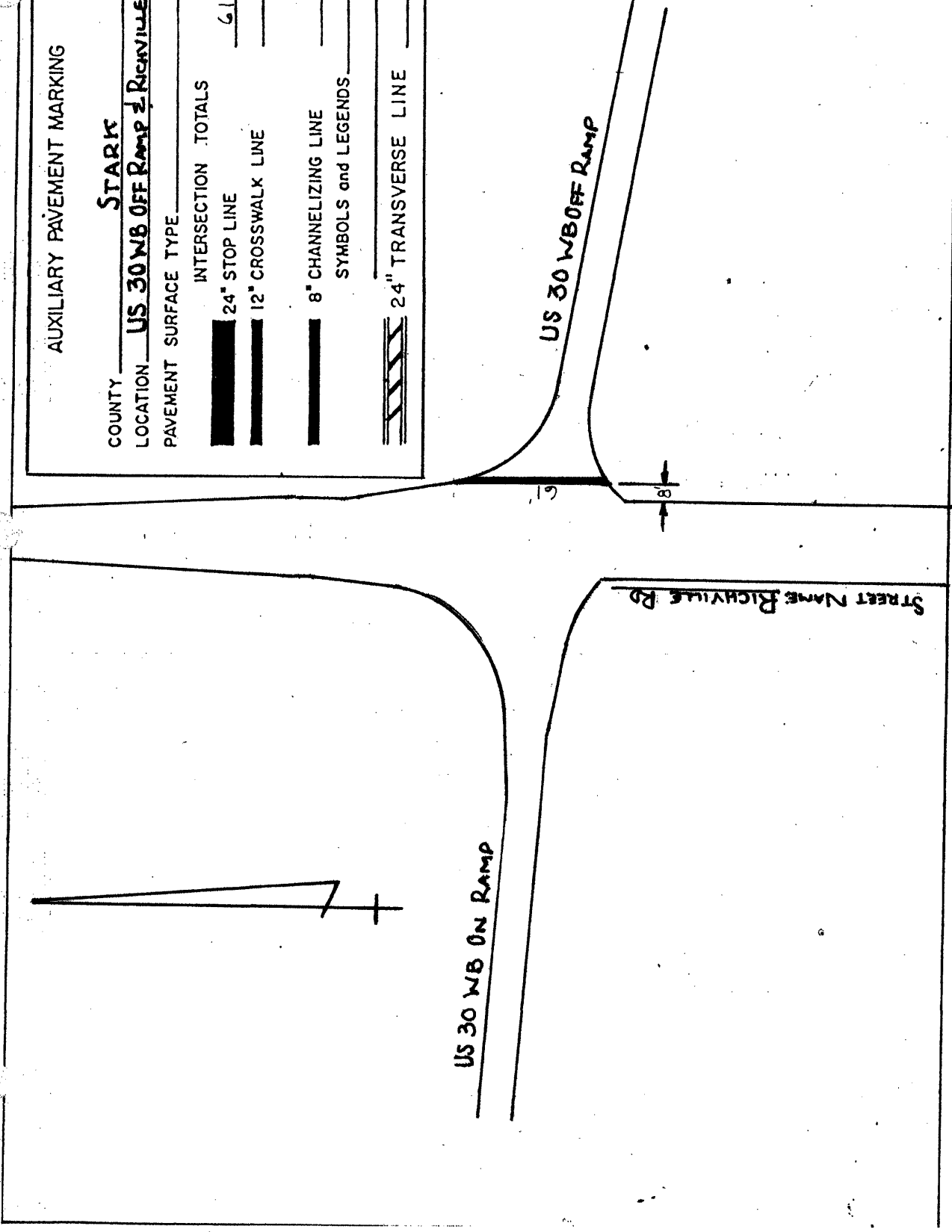
AUXILIARY PAVEMENT MARKING 5-1-92

COUNTY STARK
 LOCATION US 30 E RICHVILLE DR
 PAVEMENT SURFACE TYPE _____
 INTERSECTION TOTALS _____ LIN. FT.
 24" STOP LINE _____ LIN. FT.
 12" CROSSWALK LINE _____ LIN. FT.
 8" CHANNELIZING LINE 622 LIN. FT.
 SYMBOLS and LEGENDS _____
 24" TRANSVERSE LINE _____ LIN. FT.



AUXILIARY PAVEMENT MARKING

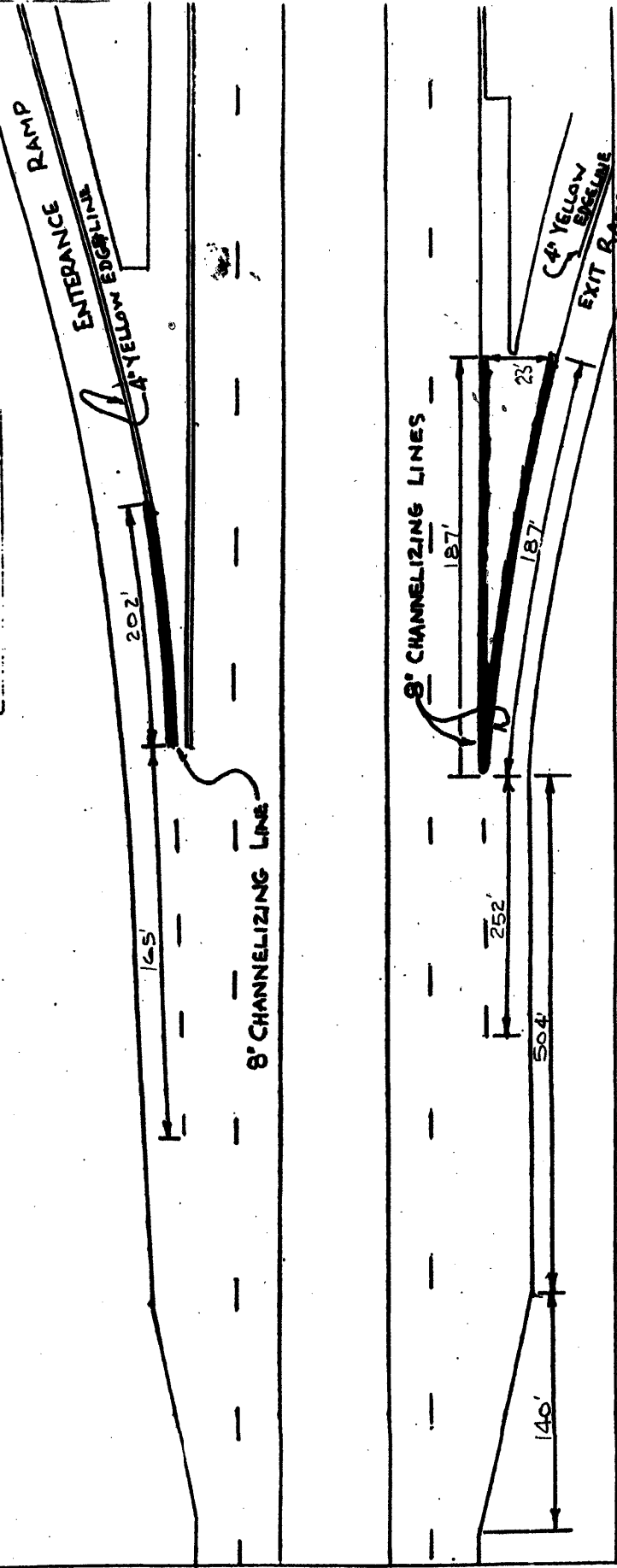
COUNTY STARK
 LOCATION US 30 WB OFF RAMP E RICHVILLE RD
 PAVEMENT SURFACE TYPE _____
 INTERSECTION TOTALS _____ LIN. FT.
 24" STOP LINE 61 LIN. FT.
 12" CROSSWALK LINE _____ LIN. FT.
 8" CHANNELIZING LINE _____ LIN. FT.
 SYMBOLS and LEGENDS _____
 24" TRANSVERSE LINE _____ LIN. FT.



AUXILIARY PAVEMENT MARKING
TAPERED

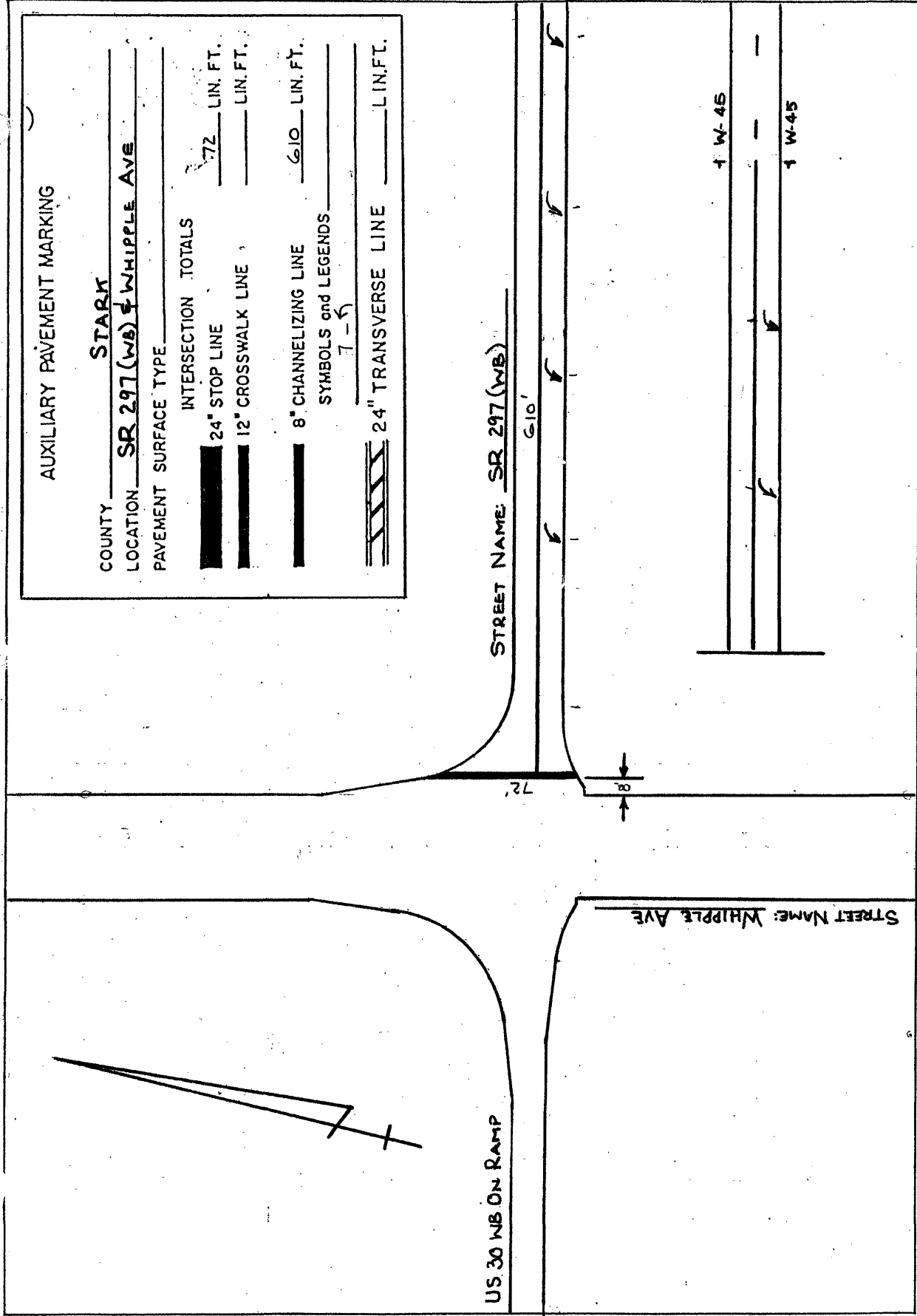
5-1-92

COUNTY STARK
 LOCATION US 30 @ WHIPPLE AVE
 PAVEMENT SURFACE TYPE _____
 INTERSECTION TOTALS _____ LIN. FT.
 24" STOP LINE _____ LIN. FT.
 12" CROSSWALK LINE _____ LIN. FT.
 8" CHANNELIZING LINE _____ 576 LIN. FT.
 SYMBOLS and LEGENDS _____
 24" TRANSVERSE LINE _____ LIN. FT.



AUXILIARY PAVEMENT MARKING

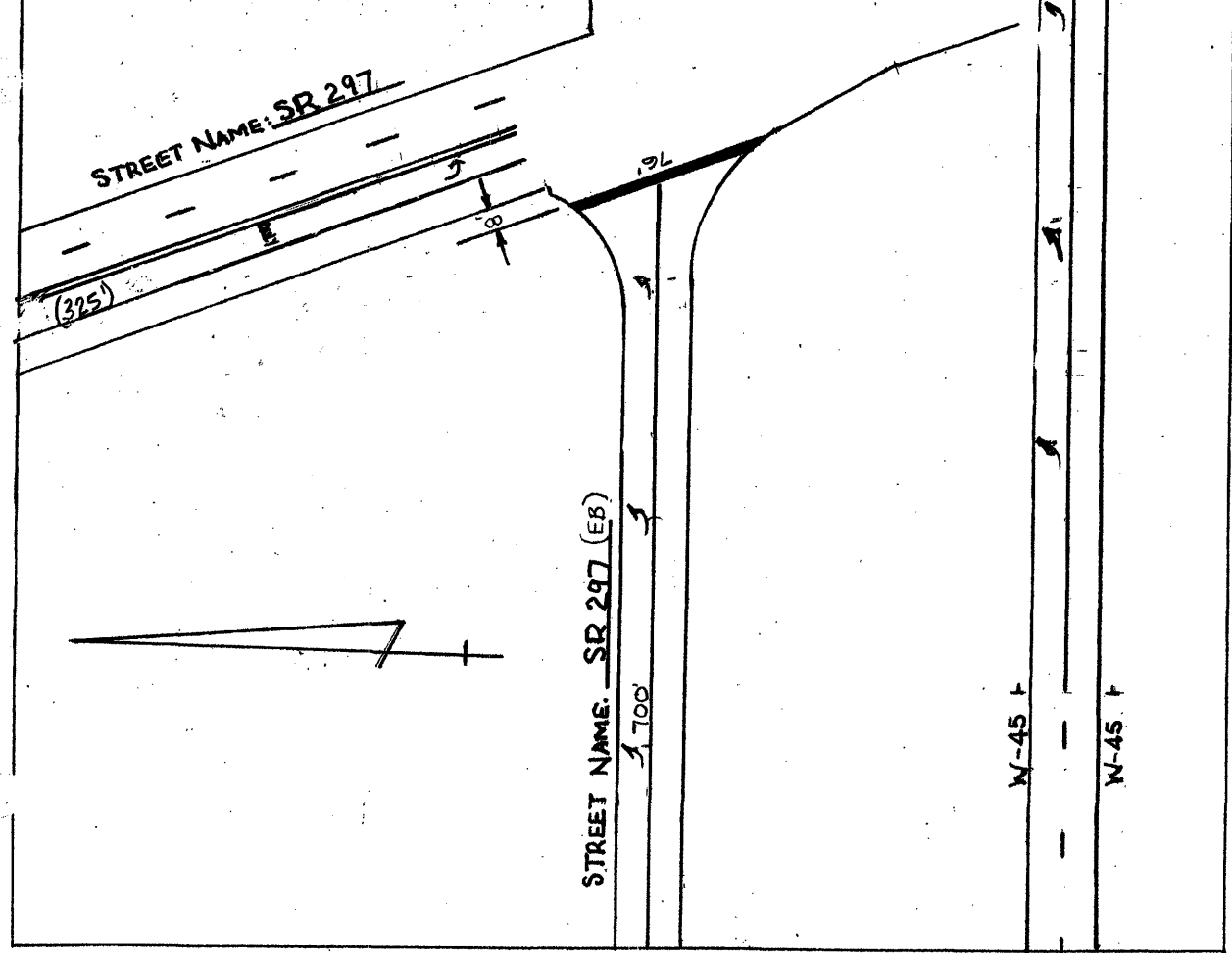
COUNTY STARK
 LOCATION SR 297 (WB) @ WHIPPLE AVE
 PAVEMENT SURFACE TYPE _____
 INTERSECTION TOTALS _____ LIN. FT.
 24" STOP LINE _____ 72 LIN. FT.
 12" CROSSWALK LINE _____ LIN. FT.
 8" CHANNELIZING LINE _____ 610 LIN. FT.
 SYMBOLS and LEGENDS _____
 24" TRANSVERSE LINE _____ LIN. FT.



AUXILIARY PAVEMENT MARKING

COUNTY STARK
 LOCATION SR 297 & RAFF RD
 PAVEMENT SURFACE TYPE (0.663)

INTERSECTION TOTALS
 24" STOP LINE 76 LIN. FT.
 12" CROSSWALK LINE LIN. FT.
 8" CHANNELIZATION RAMP 700 LIN. FT.
 SMOOBS and LEGENDS (8.5)
 US 30 EB
 24" TRANSVERSE LINE LIN. FT.



TS 54
DISTRICT 4

Center Line Log Record and Field Sheet

SHEET 1 OF 2

COUNTY STARK ROUTE 297



Total This Route = Yellow: Solid _____, Yellow: Dash _____, White: Dash _____
Equivalent Yellow _____

16th ST (0.998)												
(0.925)	Condair RR (0.904)				.90					.90		
SOUTHWAY ST. (0.851)	NAVARR RD. (0.851)											
80	17th ST.				.80					.80		
US 30 WB* ON RAMP (0.744)	US 30 WB OFF RAMP (0.744)											
70					.70					.70		
	US 30 EB ON RAMP (0.663) RAFF RD.											
60					.60					.60		
50					.50					.50		
40				(1.404) 13th ST. CORP. (1.394)						.40		
	(1.397) * (1.357)				.30					.30		
30				(1.296) *								
20	US 30 EB ON RAMP (0.172) WHIPPLE Ave.				.20					.20		
10					.10					.10		
0.00					1.00					.00		

Yellow: Solid 0.532 Dash 0.092 Yellow: Solid 1.057 Dash 0.592 Yellow: Solid _____ Dash _____

TOTAL YELLOW THIS PAGE: SOLID 1.589 DASH 0.684 EQUIVALENT LINE 1.710

CALCULATED
LMB
CHECKED

PAVEMENT MARKINGS

STA -30/ 297 -6.06 / 0.17

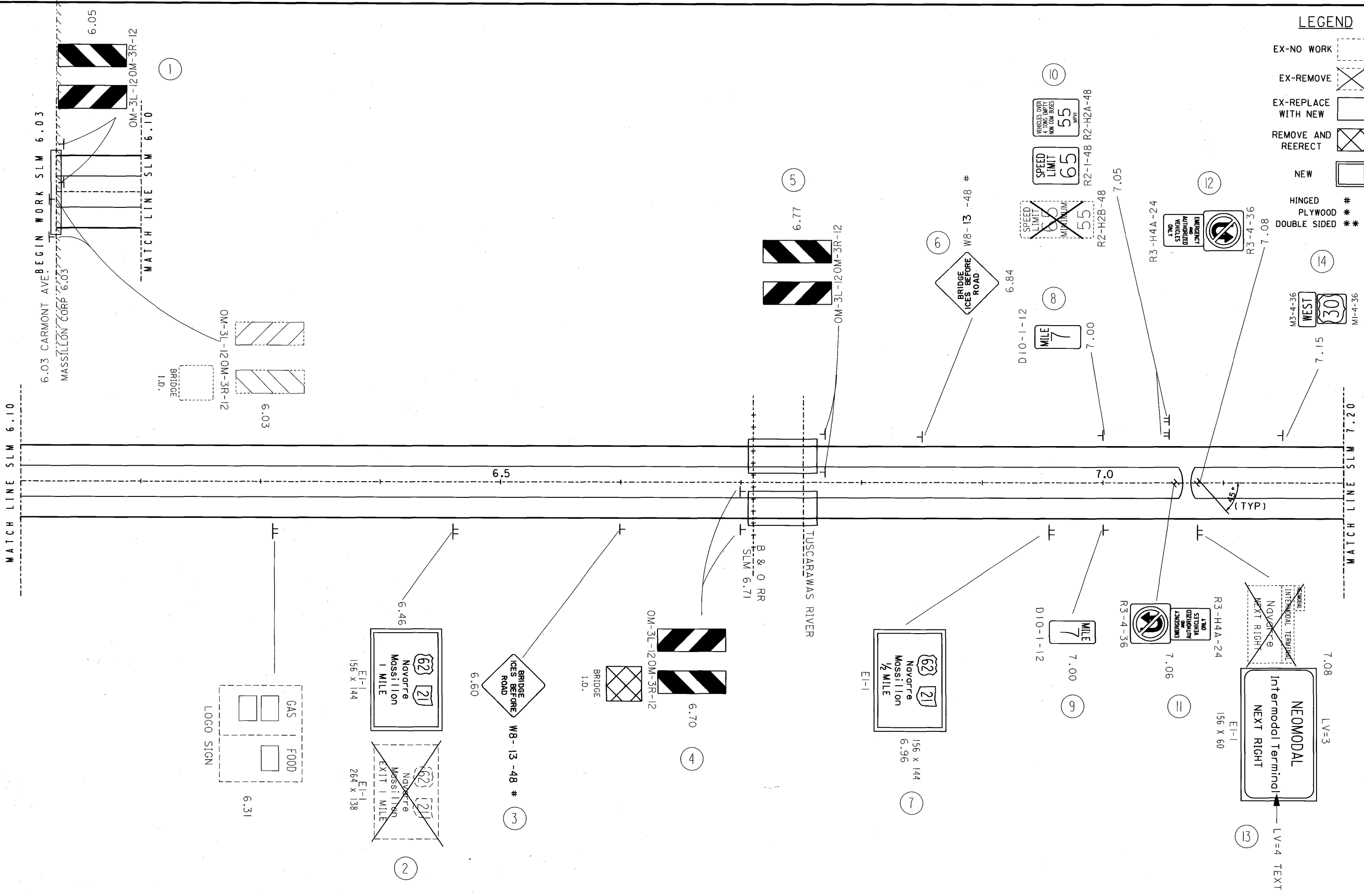
REF NO.	SLM	SIDE	CODE	SIZE (INCHES)	# HINGED	630																	631													
						SIGN, FLATSHEET	SIGN, GROUND MOUNTED EXTRUSHEET	SIGN, OVERHEAD EXTRUSHEET	GROUND MOUNTED SUPPORT, NO. 3 POST	ONE WAY SUPPORT, NO. 3 POST	GROUND MOUNTED SUPPORT, S4 X 7.7 BEAM	GROUND MOUNTED SUPPORT, W6 X 9 BEAM	GROUND MOUNTED SUPPORT, W8 X 18 BEAM	GROUND MOUNTED SUPPORT, W10 X 12 BEAM	GROUND MOUNTED SUPPORT, W10 X 22 BEAM	GROUND MOUNTED SUPPORT, W12 X 30 BEAM	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6	OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6	GROUND MOUNTED BEAM SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	BREAKAWAY BEAM CONNECTION	SIGN ATTACHMENT ASSEMBLY, RIGID OVERHEAD	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED BEAM SUPPORT AND DISPOSAL	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-18.26	REMOVAL OF LUMINAIRE AND DISPOSAL	REMOVAL OF SIGN SERVICE AND DISPOSAL	REMOVAL OF DISCONNECT SWITCH AND DISPOSAL	REMOVAL OF SIGNS WIRED	
						SQ. FT.	S.F.	S.F.	FT.	FT.	FEET	FT.	FT.	FT.	FT.	FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
	SHEET #45																																			
	RAMP D																																			
150	1.52	RT	R5-H10D-36	30 X 36		7.50			13.5																											
	SHEET #46																																			
	RAMP N																																			
151	0.06	RT	W3-1A-36	36 X 36		9.00			13.5											1																
152	0.10	RT	M1-5-24	36 X 24		6.00																														
			M6-3-21	21 X 15		2.19																														
			R5-1A-36	36 X 24		6.00				15/16.25						2																				
			D3-H3	96 X 24		16.00																		4												
			D3-H3A	96 X 24		16.00																														
			D4B	96 X 24																																
153	0.10	LT	R5-1A-36	36 X 24		6.00																														
154	0.16	LT	R5-1-36	36 X 36		9.00																														
			R1-1-24	24 X 24		4.00		14.5	15.5																											
			R6-1L-36	36 X 12		3.00																														
			R6-1R-36	36 X 12		3.00																														
		RT	R5-1-48	48 X 48		16.00																														
			R1-1-36	36 X 36		9.00			14.5/14.5																											
155	0.48	RT	R5-1-36	36 X 36		9.00																														
			R3-H8BN-36	36 X 30		7.50																	2													
156	0.49	LT	R5-1-36	36 X 24		6.00																														
			R6-1L-36	36 X 12		3.00			14.5	15.5																										
TOTALS FROM THIS SHEET						141.19			85.00	31.00	31.25				2	2		3	14						1	7	2									
TOTALS FROM SHEET NO. 30						303.56	565.00	608.00	421.00		95.50		37.75	107.25		12	12	15	2	31	4	3			4	31	10	7	1	1	3					
TOTALS FROM SHEET NO.31						266.03	960.00	404.00	416.50		67.00		48.25	95.25	169.50		16	16	9		27	6			3	16	16	3	1	1	3					
TOTALS FROM SHEET NO.32						236.02	353.00	152.00	407.50		68.75			88.00	46.50		10	10			36	2	2				23	10								
TOTALS FROM SHEET NO. 33						223.01	767.50		490.00		36.00	35.00	84.50	161.00		14	14				30	5		1			25	15								
TOTALS FROM SHEET NO. 34						298.00		269.00	372.00	15.50		29.25				1	1	2	3	2		33				3	30	2	3							
TOTALS FROM SHEET NO. 35						236.26	90.00		167.50	31.00	116.75						8	8				29					11	6								
TOTALS CARRIED TO GENERAL SUMMARY						1704.1	2735.5	1433.0	2359.5	77.5	415.3	64.3	48.3	122.3	290.5	377.0	1	1	64	3	64	24	5	200	17	5	1	11	143	61	3	10	2	2	6	

CALCULATED
WHV

CHECKED
LAB

SIGNING SUBSUMMARY

STA-30/297-6.06/0.17



LEGEND

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED PLYWOOD DOUBLE SIDED

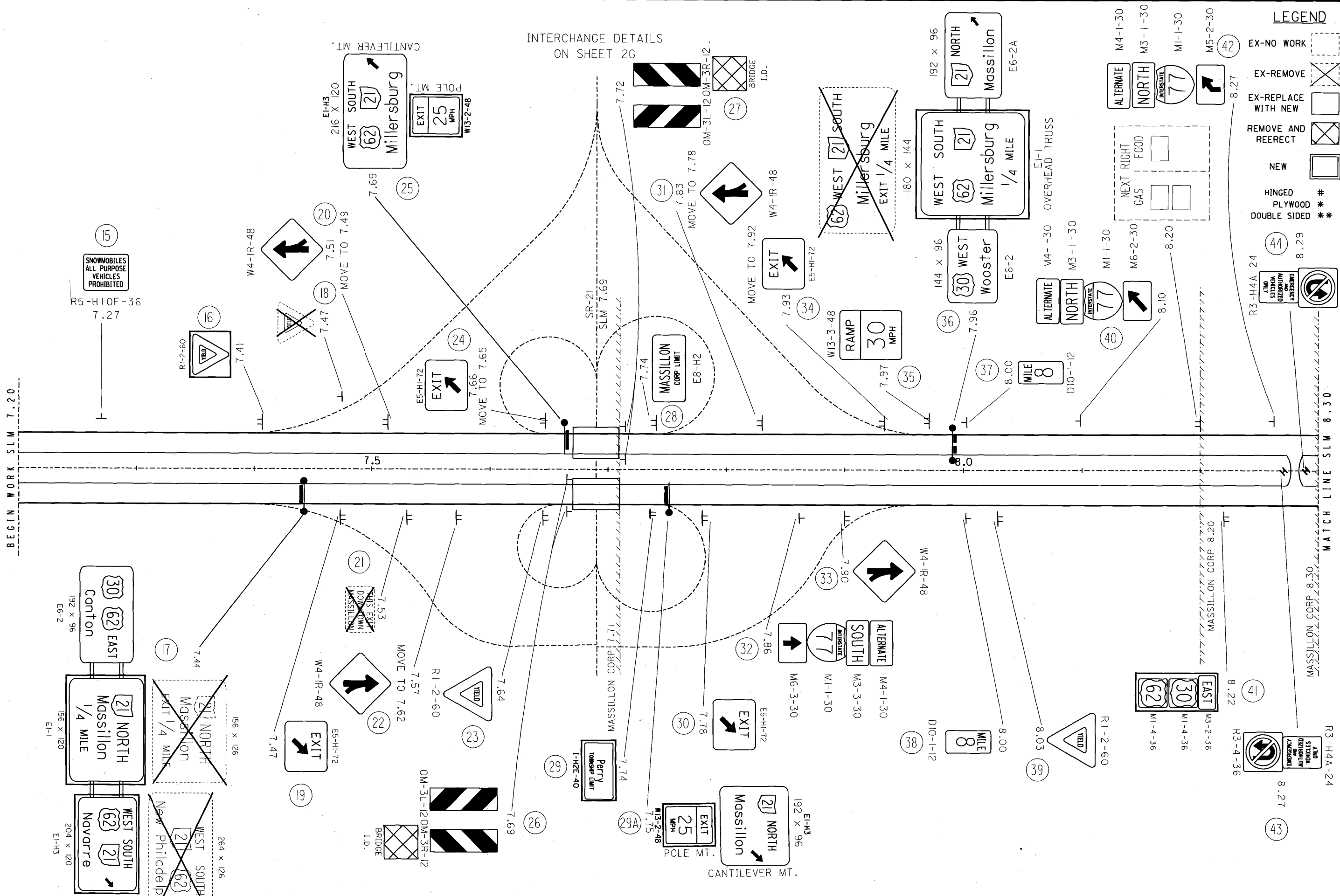
0 0.04 0.08
 HORIZONTAL SCALE IN MILES

CALCULATED
 WHY
 CHECKED
 LAB

US 30 SIGNING PLAN
SLM 6.03 TO 7.20

STA-30/297-6.06/0.17

NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
 DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS



LEGEND

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED PLYWOOD
- DOUBLE SIDED



CALCULATED	WHY	CHECKED	LAB

US 30 SIGNING PLAN
SLM 7.20 TO 8.30

STA-30/297-6.06/0.17

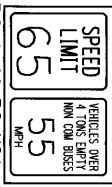
NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS

MASSILLON CORP 8.30 MATCH LINE SLM 8.30

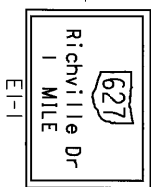
MASSILLON CORP 8.30 MATCH LINE SLM 8.30

R2-1-48 R2-H2A-48

45

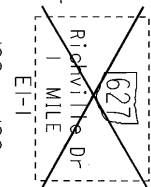


8.32



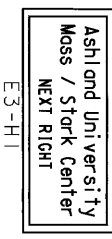
192 x 120
8.42

47



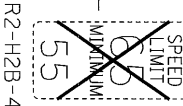
192 x 120
8.44

48



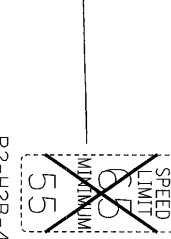
192 x 84
8.57

50



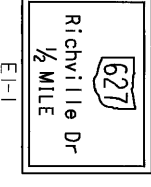
8.63

52



192 x 120
8.92

55



192 x 84
E3-HI

Ashland University Moss / Stark Center NEXT RIGHT



9.00

59

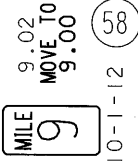


9.06

60

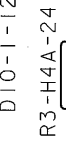
R3-H4A-24

EMERGENCY VEHICLES ONLY



9.02 MOVE TO 9.00

58



9.08

61

R3-H4A-24

EMERGENCY VEHICLES ONLY



8.90

54

R2-1-48 R2-H2A-48

VEHICLES OVER 10,000 LBS. MIN. GVW BRGS

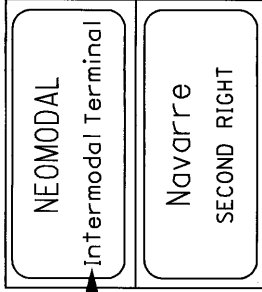
55 MPH

MINIMUM

55

8.64

53



EI-1 LV=3 144 X 48

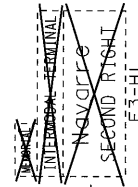
EI-1 LV=2 144 X 60



LV=4, TEXT

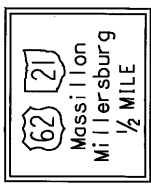
MINIMUM

55



8.60

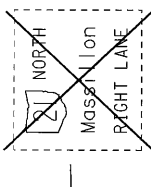
51



180 x 144
8.49

49

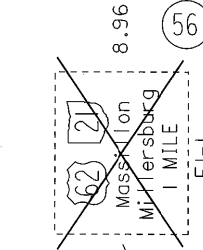
EI-1 180 x 84



8.36

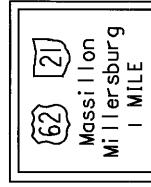
46

EI-1 156 x 114



8.96

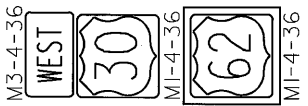
56



180 x 144
8.99

57

EI-1



9.10

62

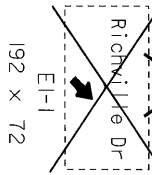
M3-4-36 WEST MI-4-36 MI-4-36 MI-4-36



9.36

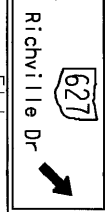
64

RI-2-60



192 x 72

63

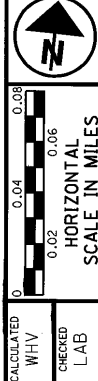


228 x 84
9.28



MI-5-36

- LEGEND
- EX-NO WORK
 - EX-REMOVE
 - EX-REPLACE WITH NEW
 - REMOVE AND REERECT
 - NEW
 - HINGED #
 - PLYWOOD *
 - DOUBLE SIDED **

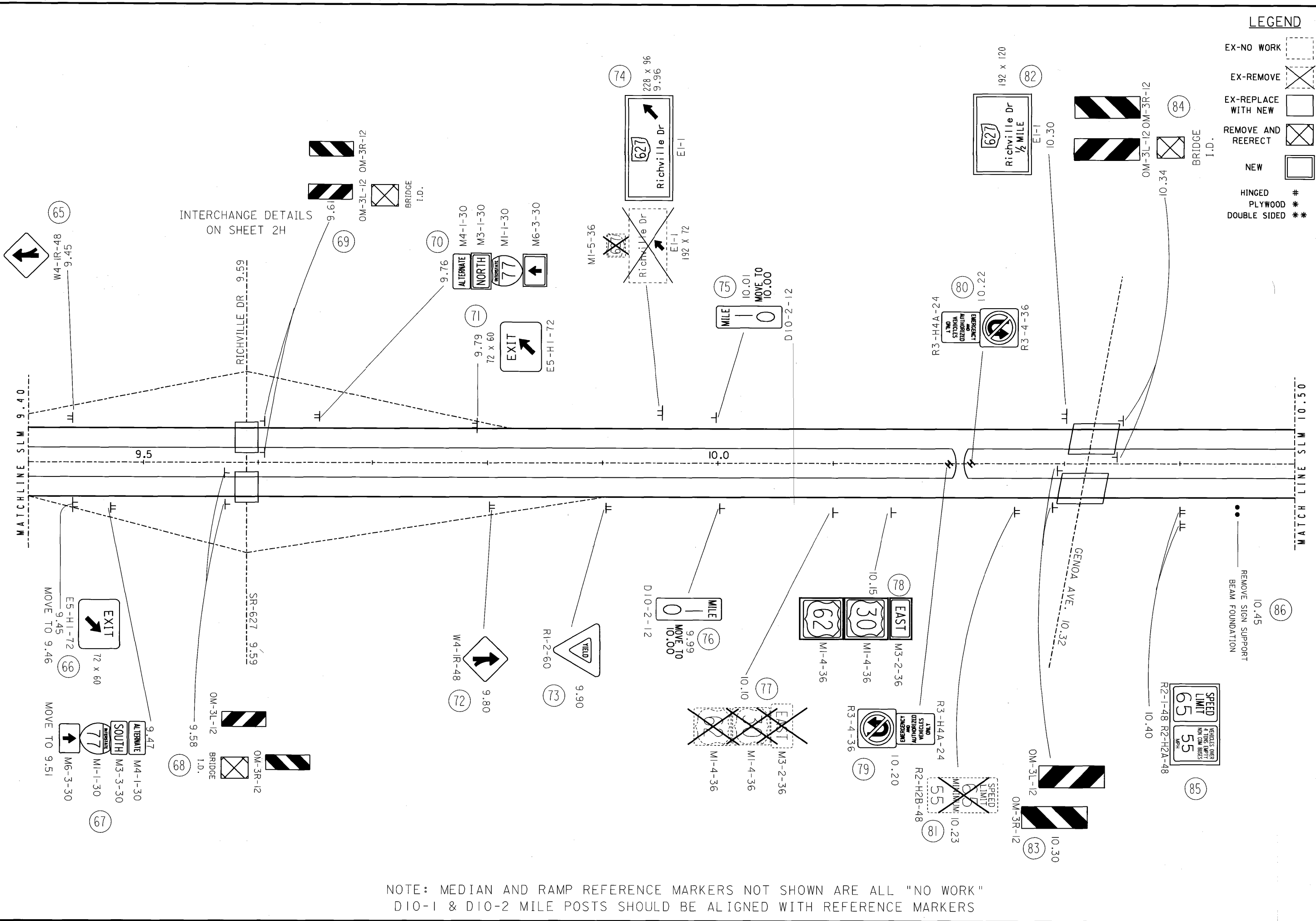


US 30 SIGNING PLAN
SLM 8.30 TO 9.40

STA -30 / 297 -6.06 / 0.17

39
60

NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS



LEGEND

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED PLYWOOD #
- DOUBLE SIDED **

CALCULATED: _____
 WHY: _____
 CHECKED: _____
 LAB: _____

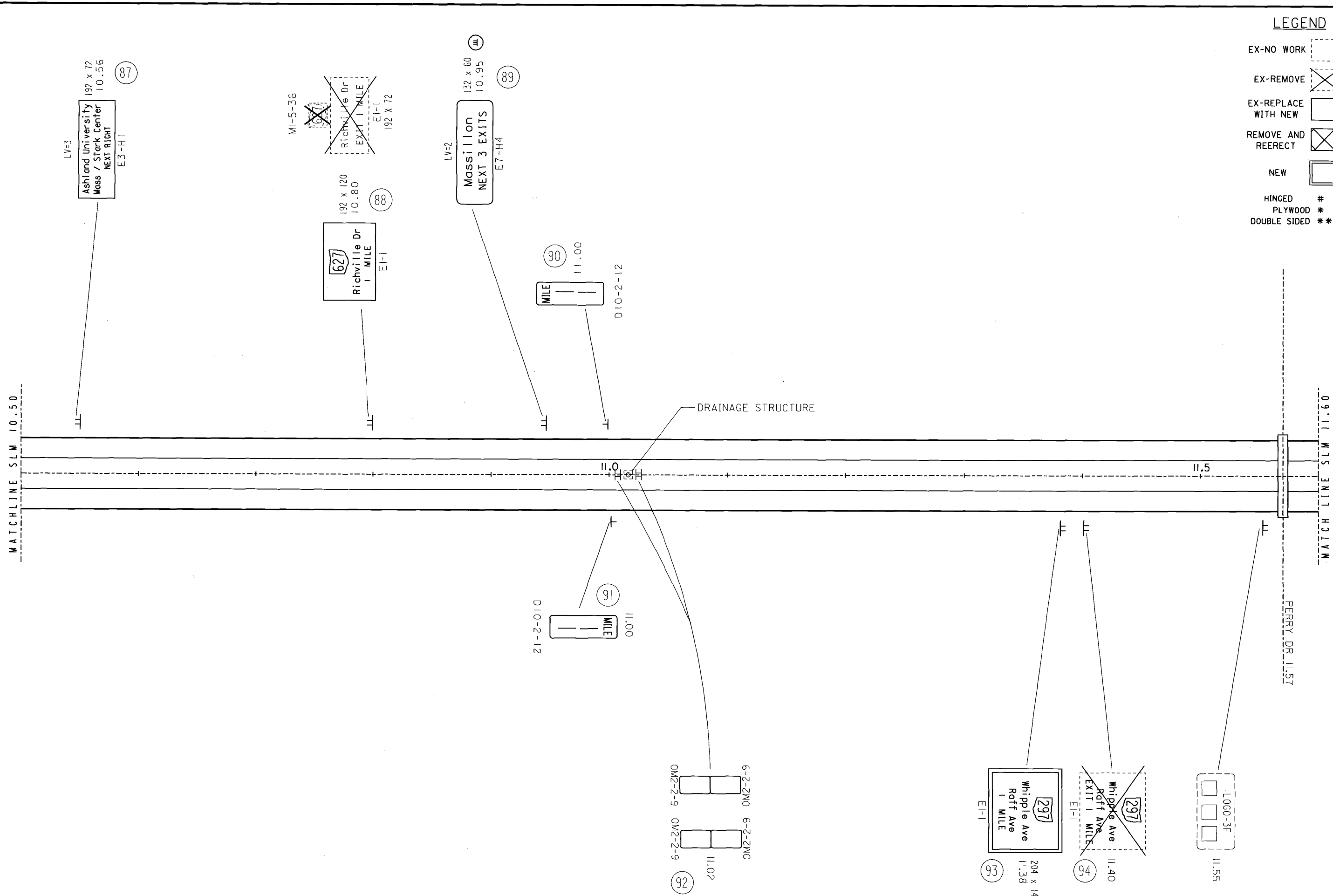
0 0.04 0.08 0.12 0.16 0.20
 HORIZONTAL SCALE IN MILES

US 30 SIGNING PLAN
SLM 9.40 TO 10.50

STA 30 / 297 - 6.06 / 0.17

40
60

NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
 DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS



NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
 D10-1 & D10-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS

LEGEND

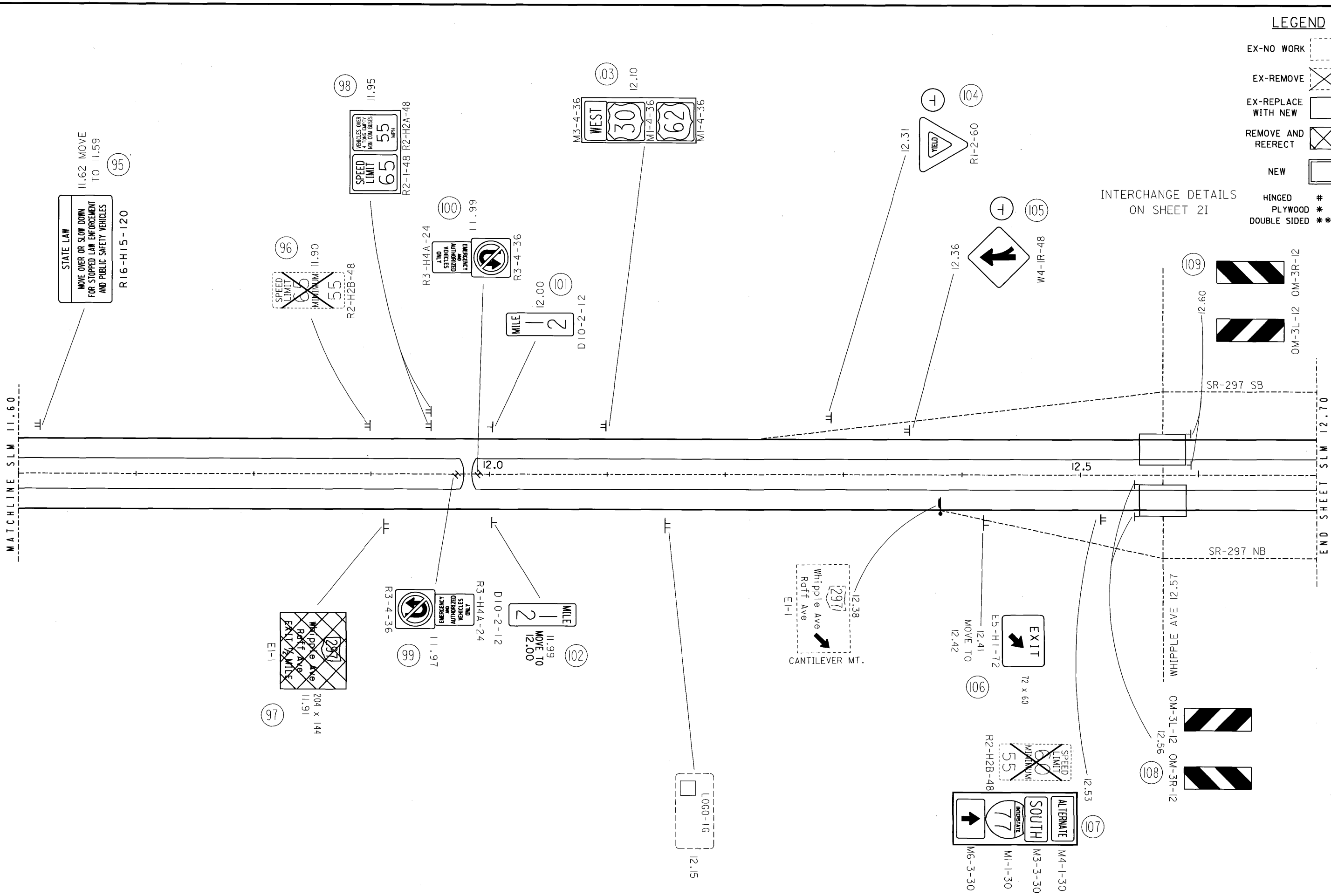
- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED #
- PLYWOOD *
- DOUBLE SIDED **

0 0.02 0.04 0.06 0.08
 HORIZONTAL SCALE IN MILES

CALCULATED: WHV
 CHECKED: LAB

US 30 SIGNING PLAN
 SLM 10.50 TO 11.60

STA - 30 / 297 - 6.06 / 0.17



LEGEND

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED #
- PLYWOOD *
- DOUBLE SIDED **

INTERCHANGE DETAILS ON SHEET 21

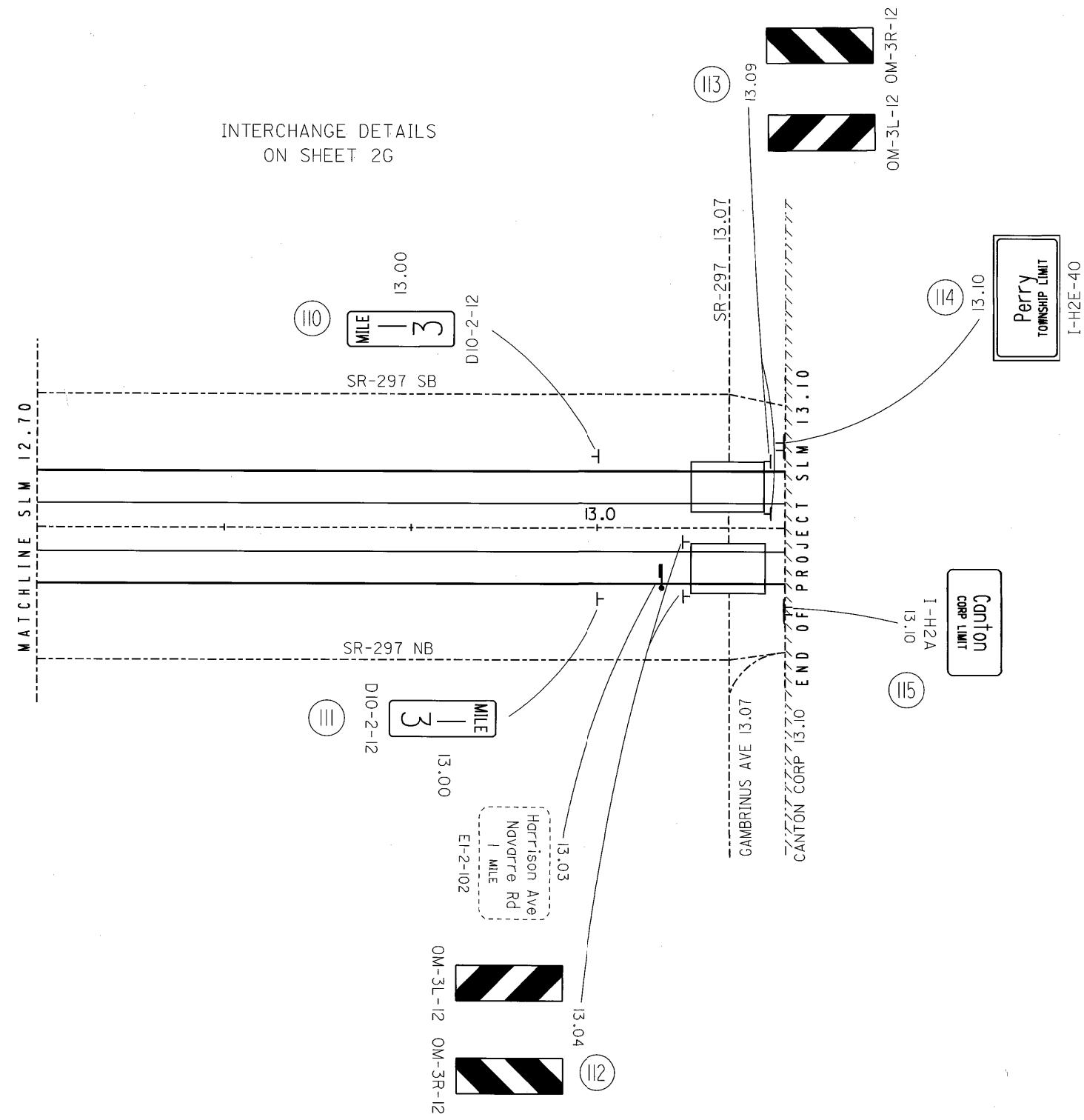
CALCULATED BY: WHV
 CHECKED BY: LAB

0 0.02 0.04 0.06 0.08
 HORIZONTAL SCALE IN MILES

US 30 SIGNING PLAN
 SLM 11.60 TO 12.70

STA-30/297-6.06 / 0.17

NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
 DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS

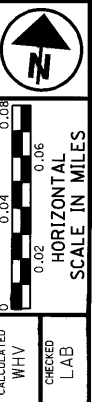


INTERCHANGE DETAILS
ON SHEET 2G

NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS

LEGEND

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED #
- PLYWOOD *
- DOUBLE SIDED **



US 30 SIGNING PLAN
SLM 12.70 TO 13.10

STA -30/ 297 -6.06 / 0.17

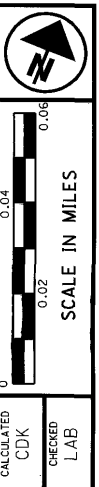
NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
 DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS

- (A) SR 21 SLM = 8.25
RAMP L & E SLM = 0.50
- (B) SR 21 SLM = 8.35
RAMP F = 0.35
- (C) SR 21 SLM = 8.67
RAMP H = 0.50
- (D) SR 21 SLM = 8.40
RAMP J = 0.31
- (E) SR 21 SLM = 8.37
RAMP I = 0.00
- (F) SR 21 SLM = 8.40
RAMP G = 0.00
- (G) SR 21 SLM = 8.62
RAMP K = 0.50

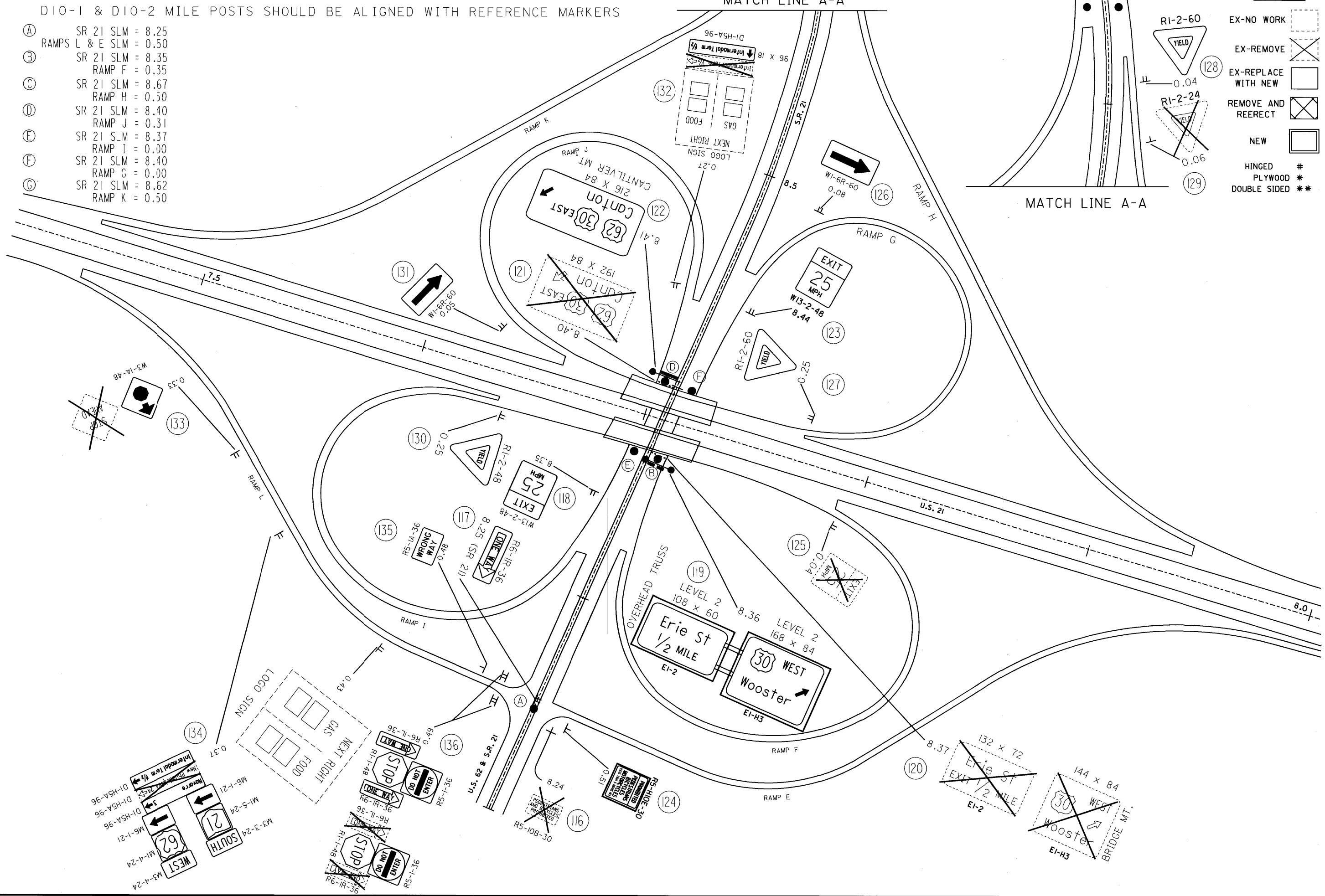
MATCH LINE A-A

LEGEND

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED #
- PLYWOOD *
- DOUBLE SIDED **



MATCH LINE A-A



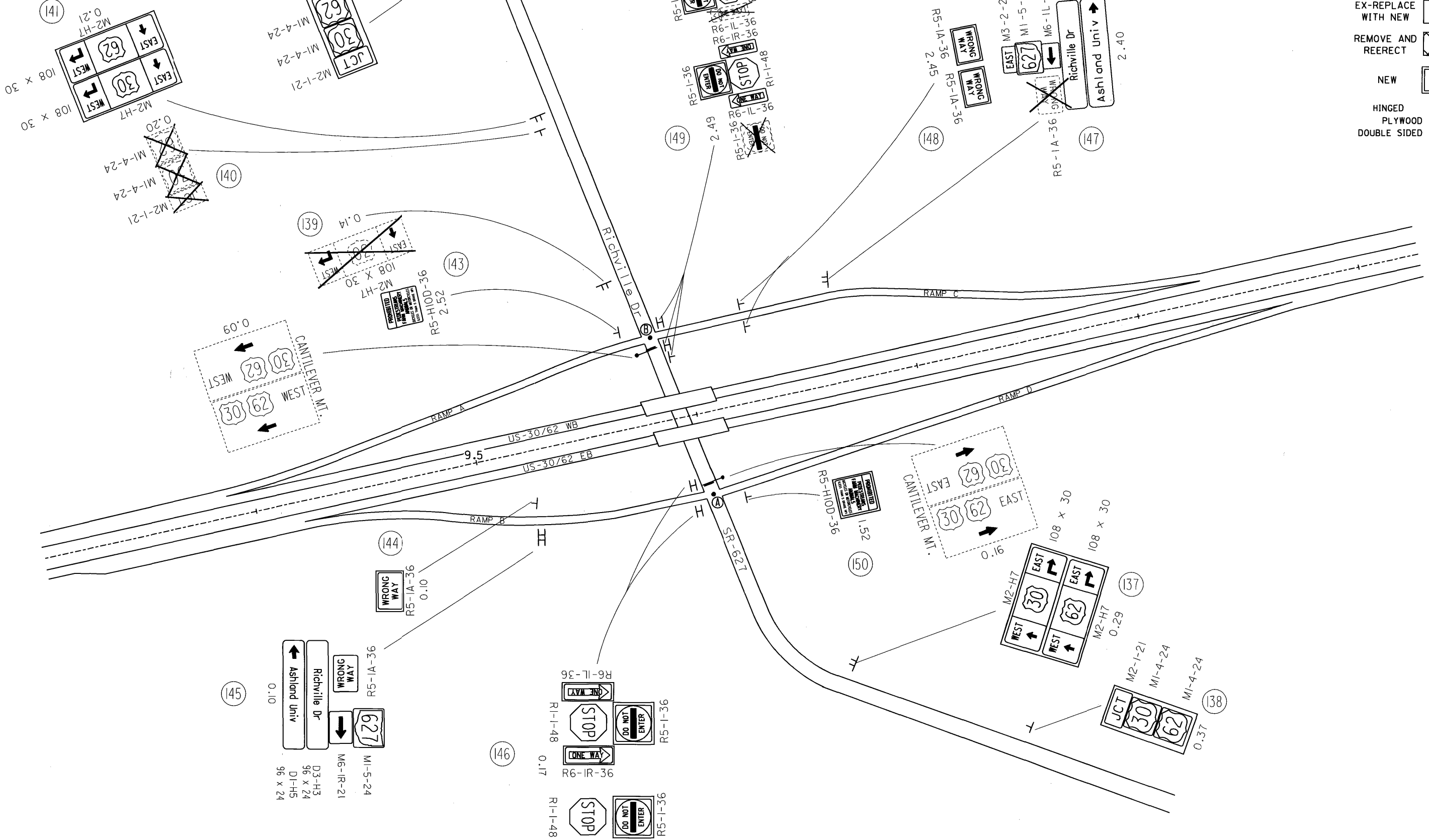
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US 30 SIGNING PLAN
 SR 21 INTERCHANGE DETAIL
 STA-30/297-6.06/0.17
 44
 60

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(A) SR-627/RICHVILLE SLM = 0.18
EB RAMPS SLM = 1.50

(B) SR-627/RICHVILLE SLM = 0.10
WB RAMPS SLM = 2.50



LEGEND

- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED #
- PLYWOOD *
- DOUBLE SIDED **

0.04
0.02
0.06
SCALE IN MILES

CALCULATED	WHY	CHECKED	LAB

US 30 SIGNING PLAN
S.R. 627 INTERCHANGE DETAIL

STA -30/ 297 -6.06 / 0.17

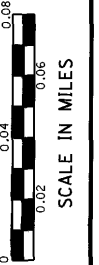
45
60

NOTE: MEDIAN AND RAMP REFERENCE MARKERS NOT SHOWN ARE ALL "NO WORK"
DIO-1 & DIO-2 MILE POSTS SHOULD BE ALIGNED WITH REFERENCE MARKERS

- (A) WHIPPLE SLM = 3.50
SR-297 NB SLM = 0.18
- (B) WHIPPLE SLM = 3.58
SR-297 SB SLM = 0.27
- (C) GAMBRINUS SLM = 4.50
SR-297 NB SLM = 0.67
- (D) RAMP 0 SLM = 0.50
SR-297 SB SLM = 0.75

LEGEND

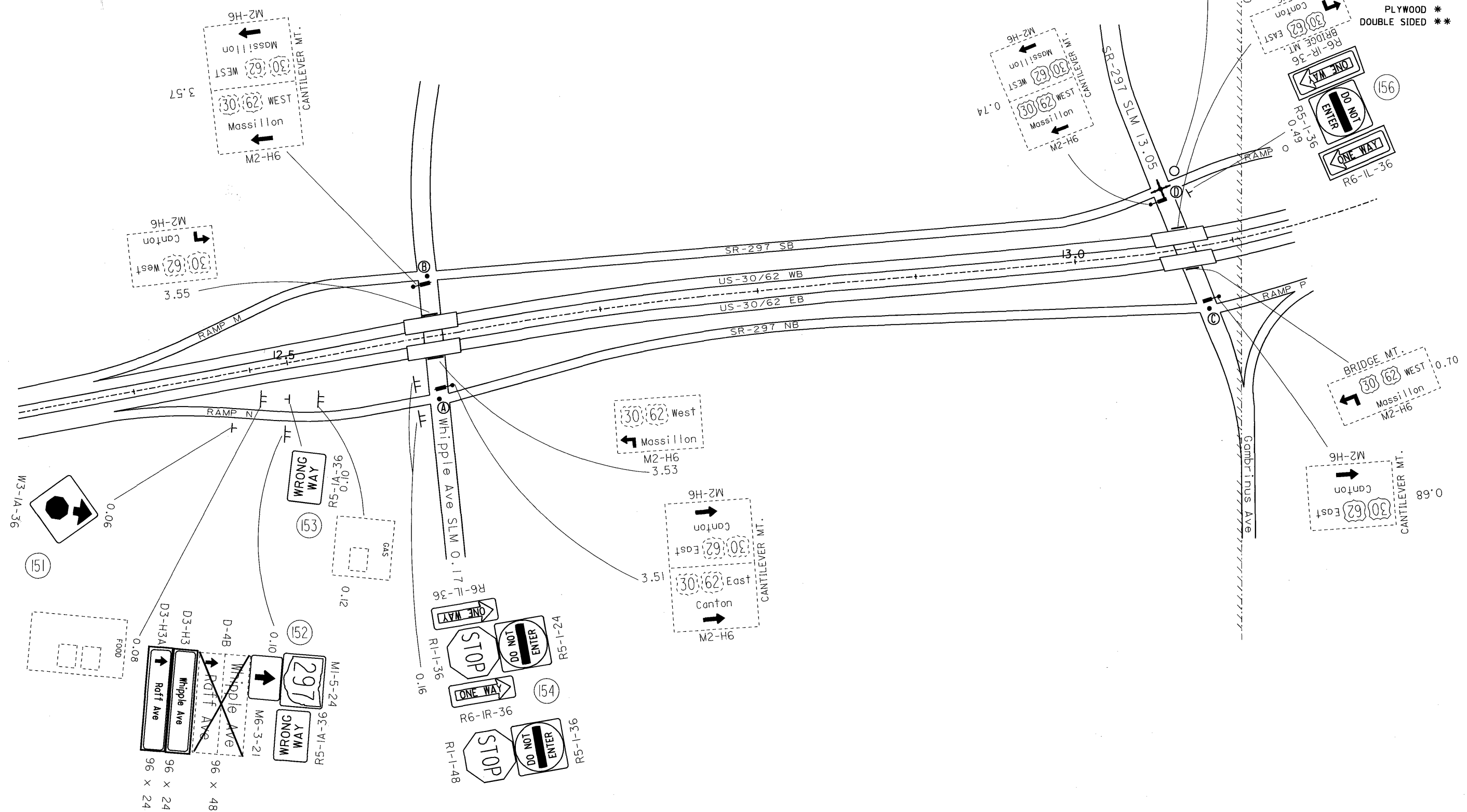
- EX-NO WORK
- EX-REMOVE
- EX-REPLACE WITH NEW
- REMOVE AND REERECT
- NEW
- HINGED #
- PLYWOOD *
- DOUBLE SIDED **



CALCULATED
CHECKED LAB

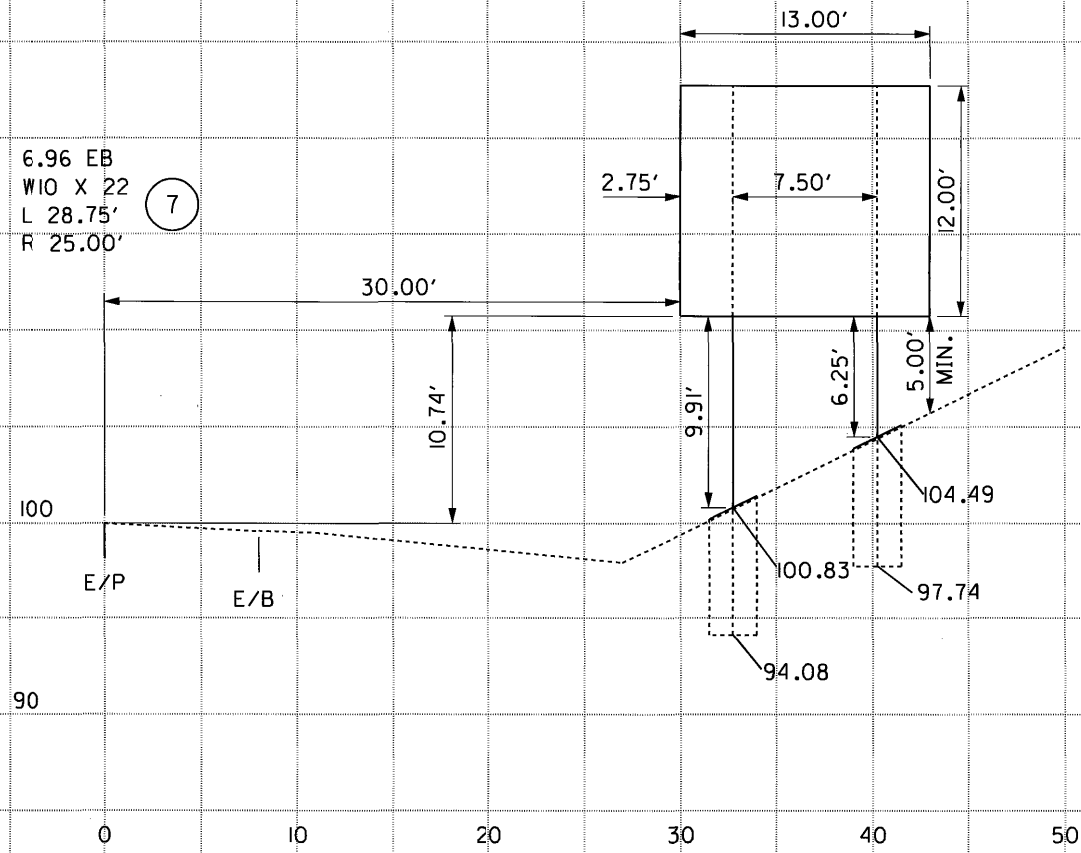
US 30 SIGNING PLAN
WHIPPLE & SR 297 INTERCHANGE DETAIL

STA-30/297-6.06/0.17

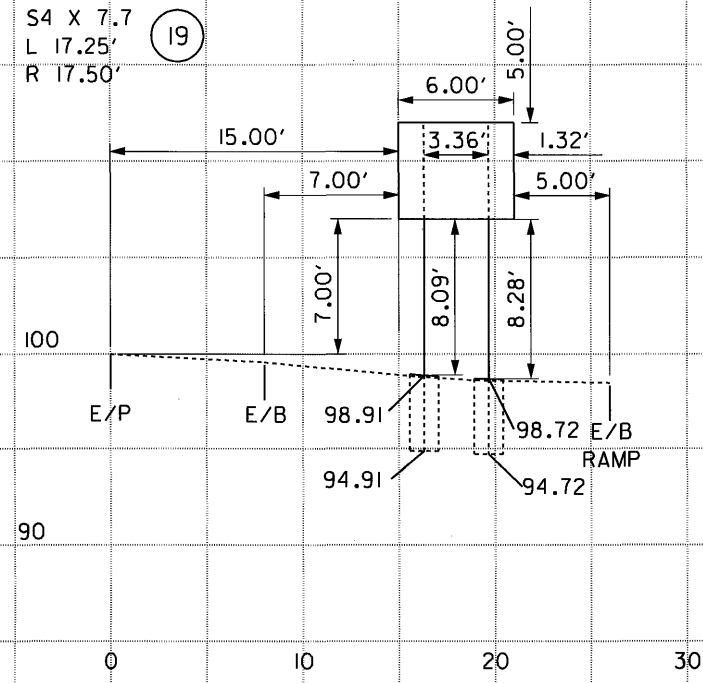


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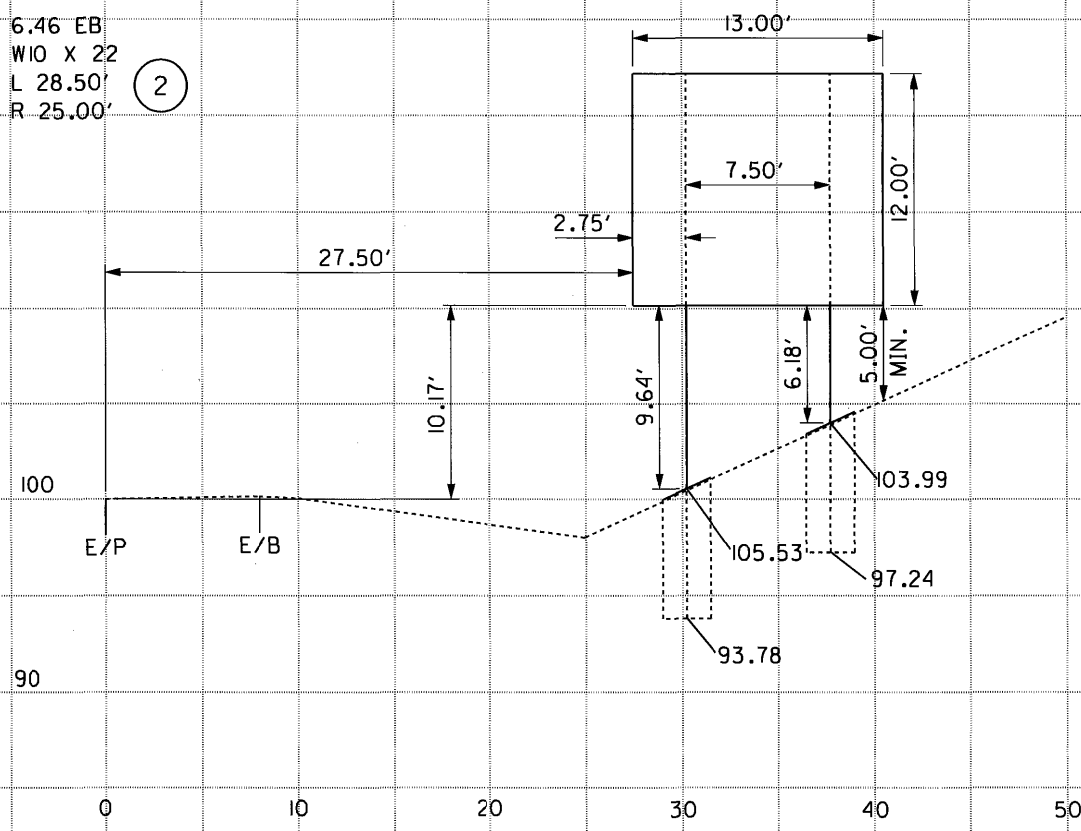
6.96 EB
W10 X 22
L 28.75'
R 25.00' (7)



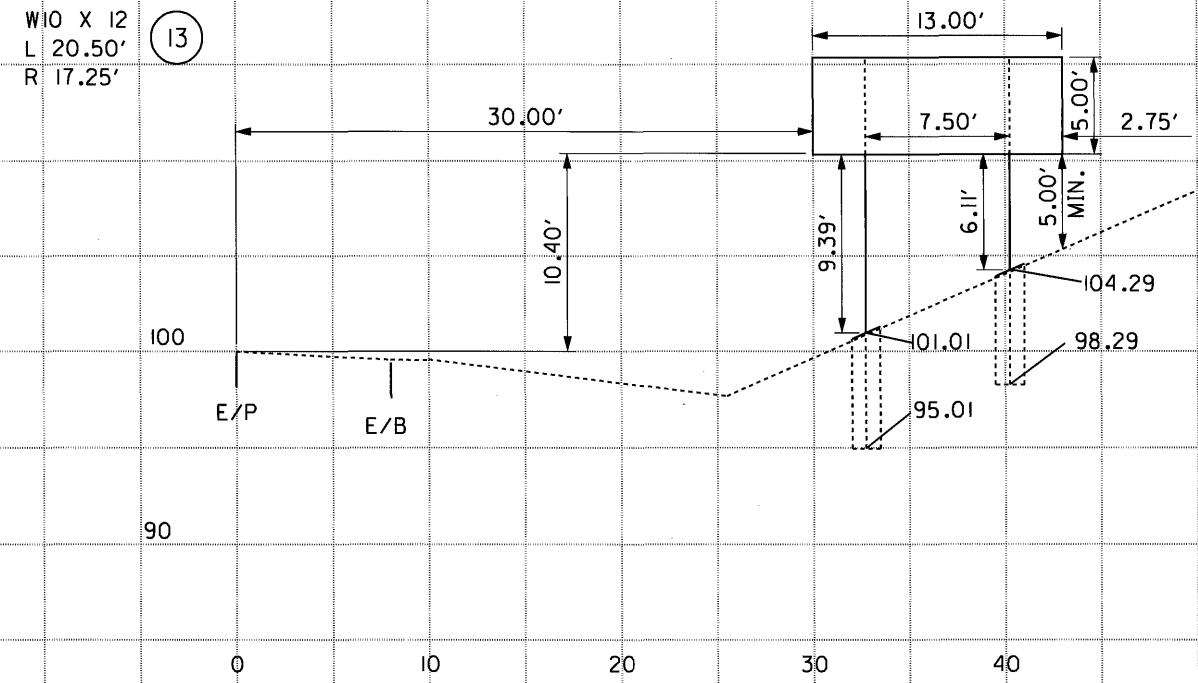
7.47 EB
S4 X 7.7
L 17.25'
R 17.50' (19)

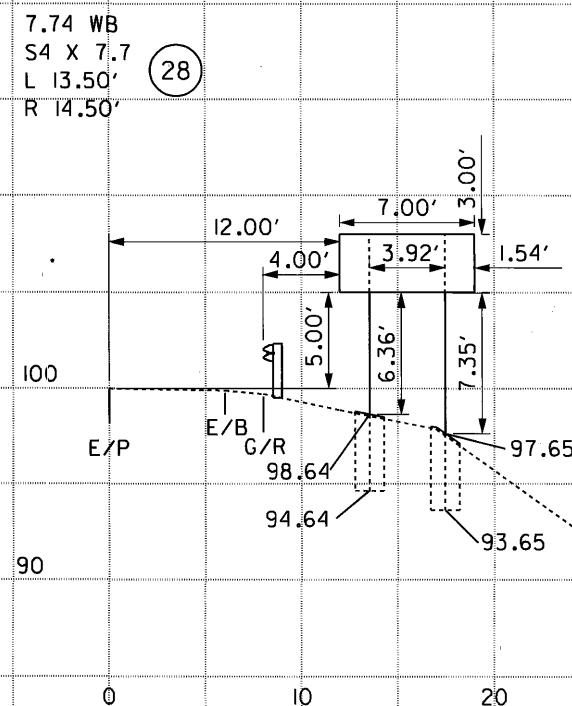
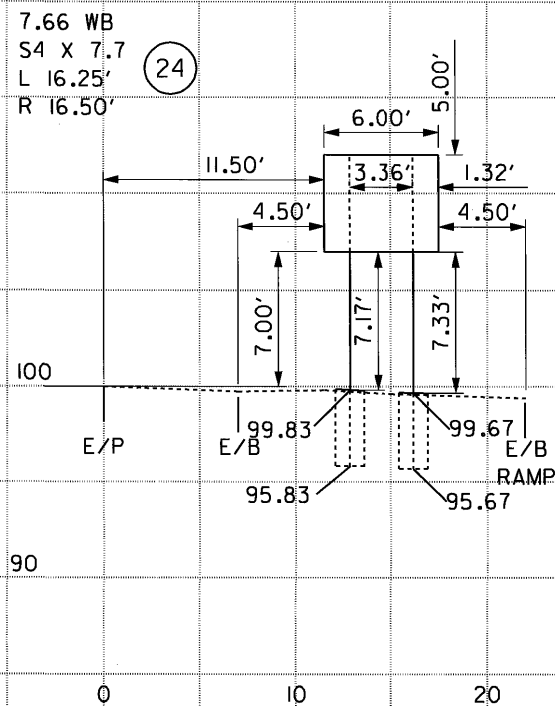
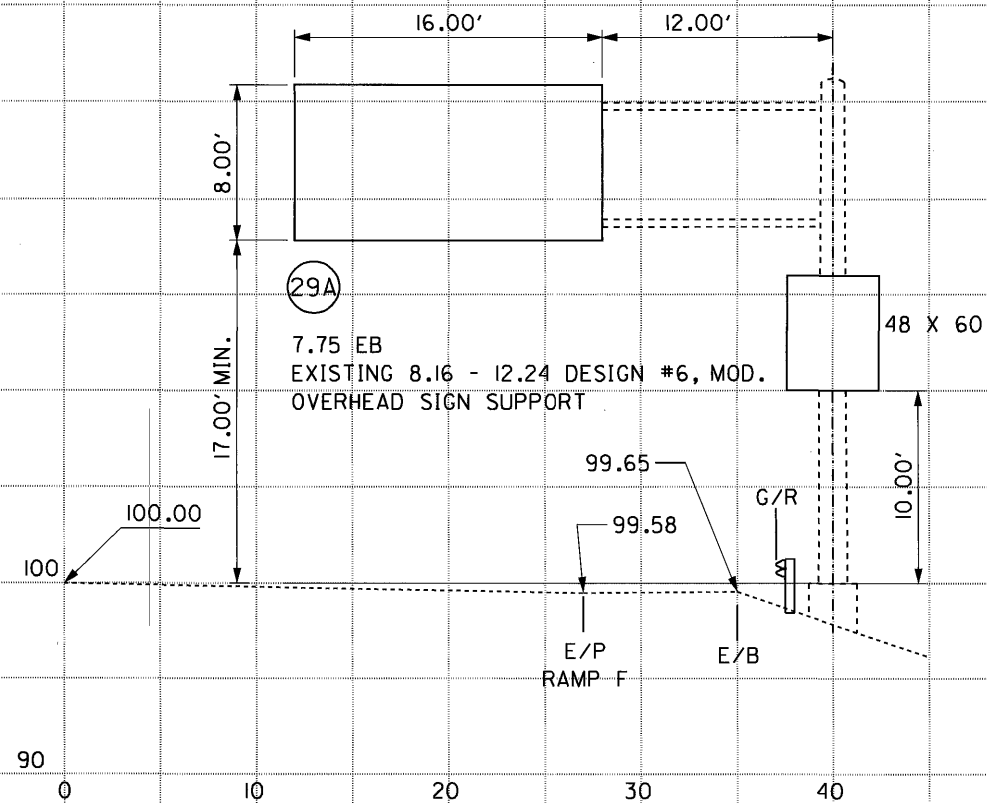
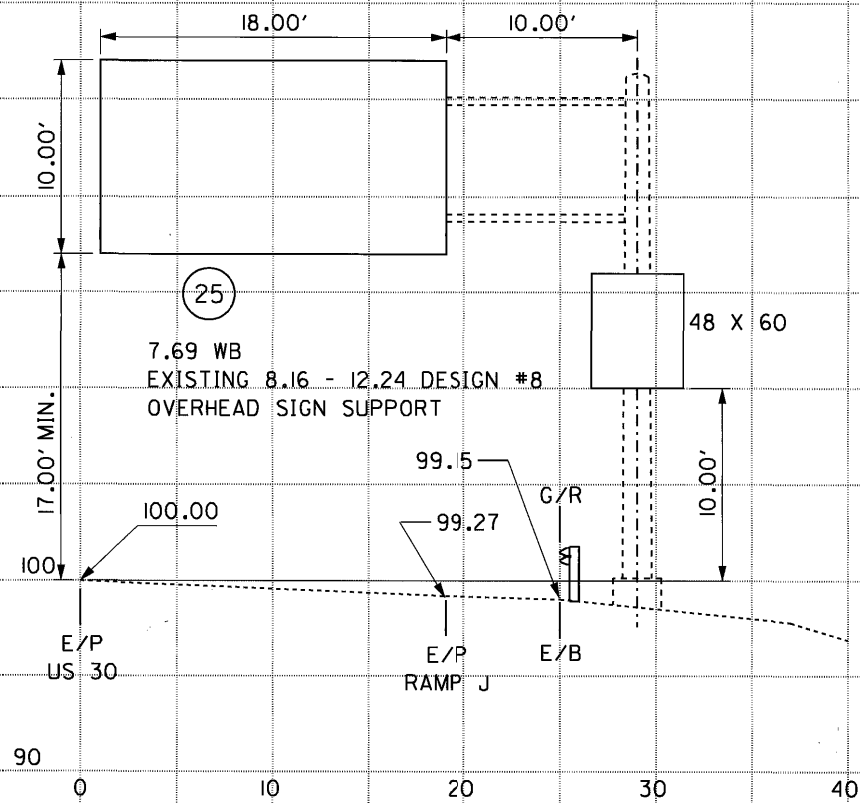


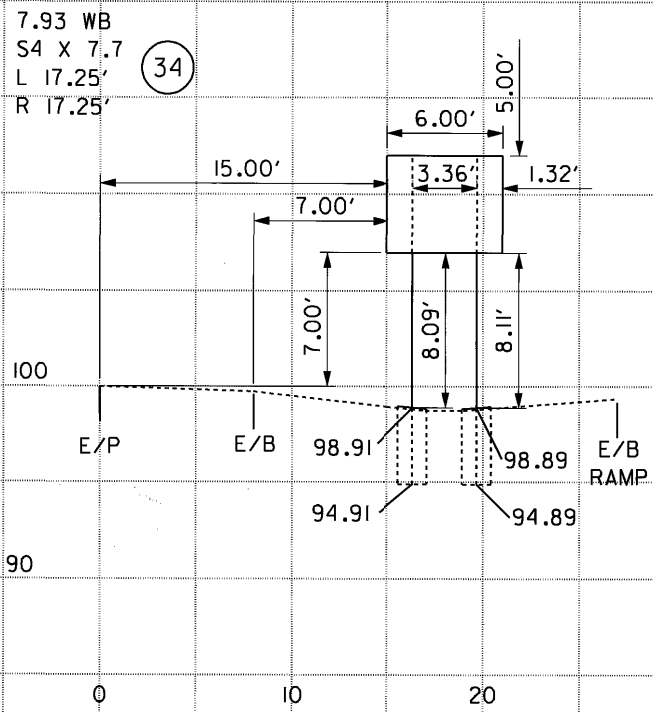
6.46 EB
W10 X 22
L 28.50'
R 25.00' (2)



7.08 EB
W10 X 12
L 20.50'
R 17.25' (13)

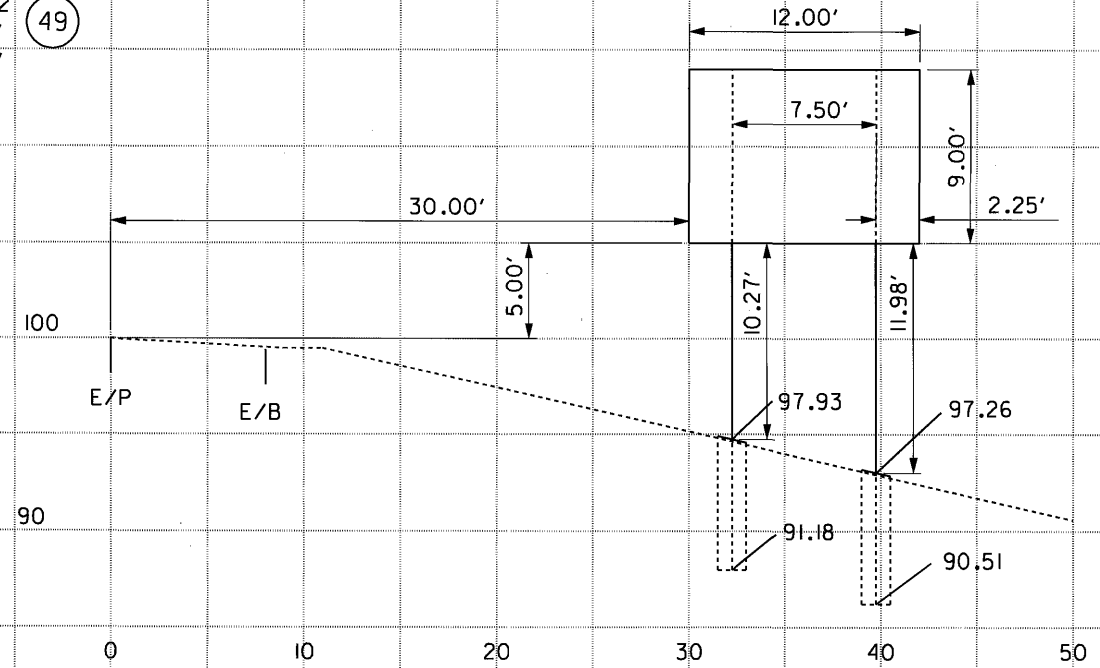






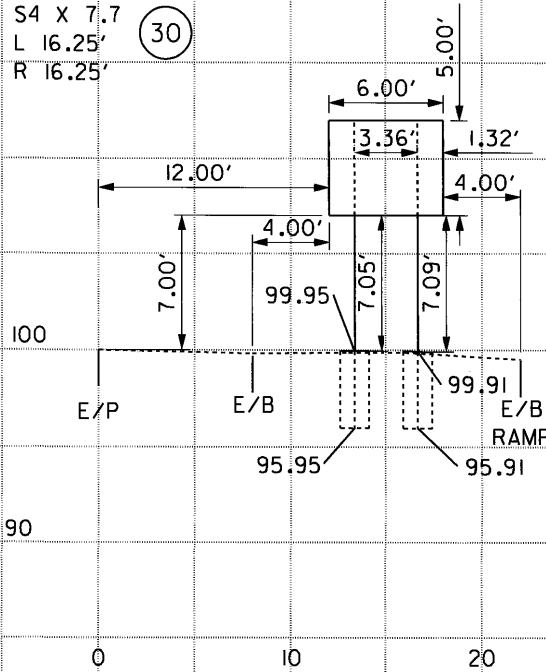
8.49 WB
W10 X 22
L 23.00'
R 23.50'

(49)



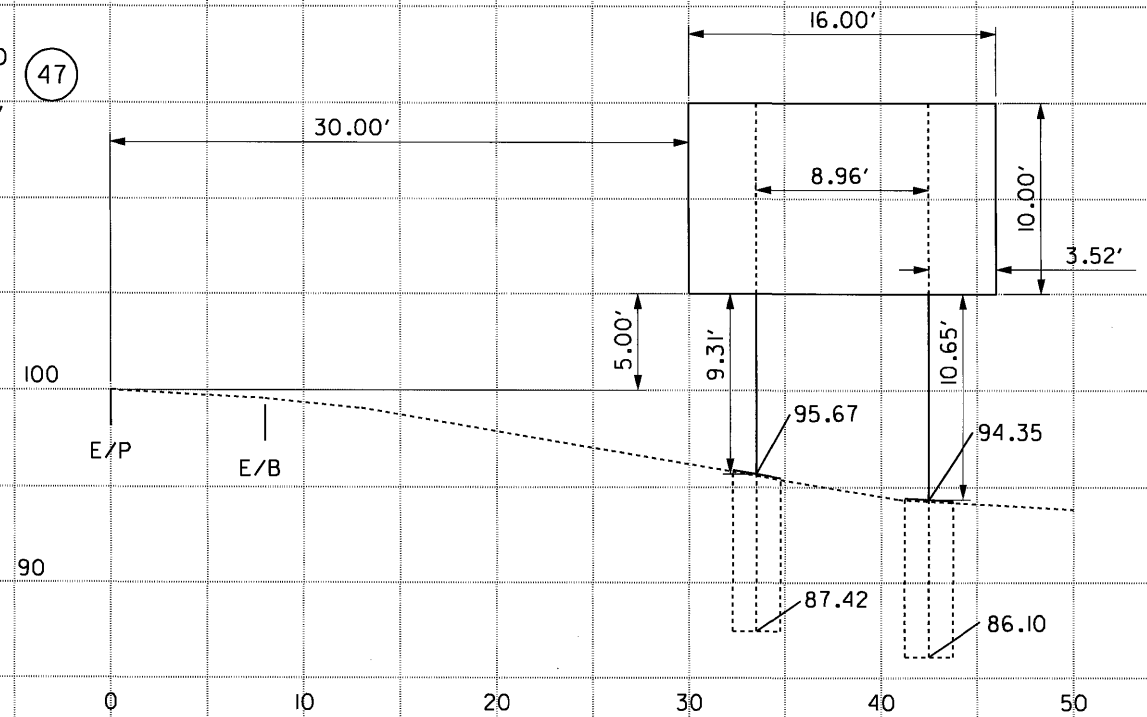
7.78 EB
S4 X 7.7
L 16.25'
R 16.25'

(30)



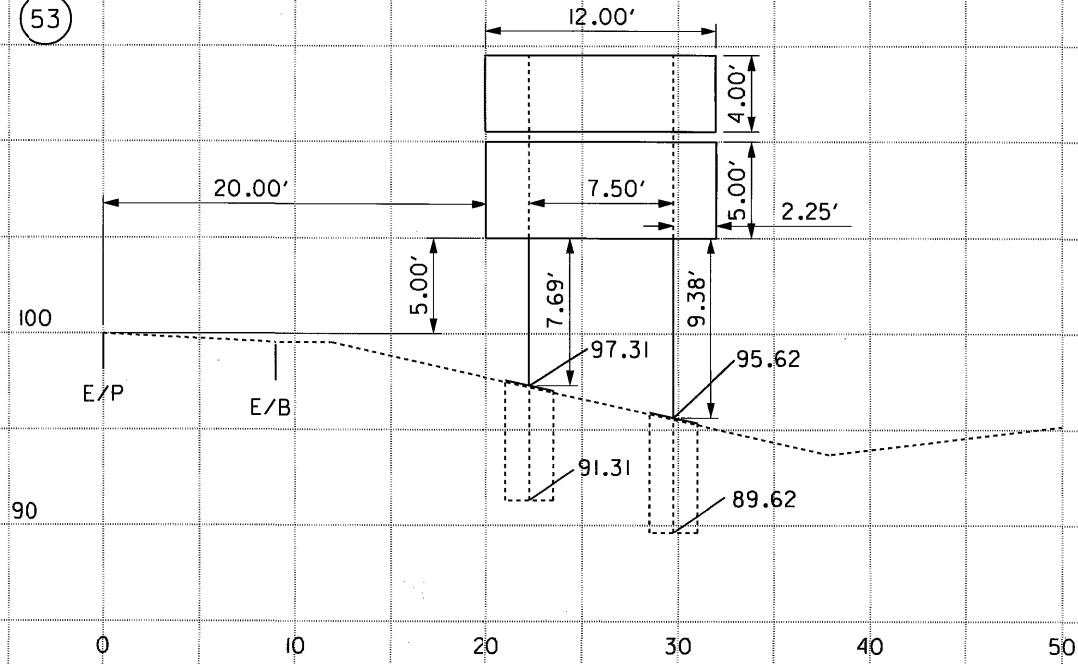
8.42 EB
W12 X 30
L 27.75'
R 29.00'

(47)



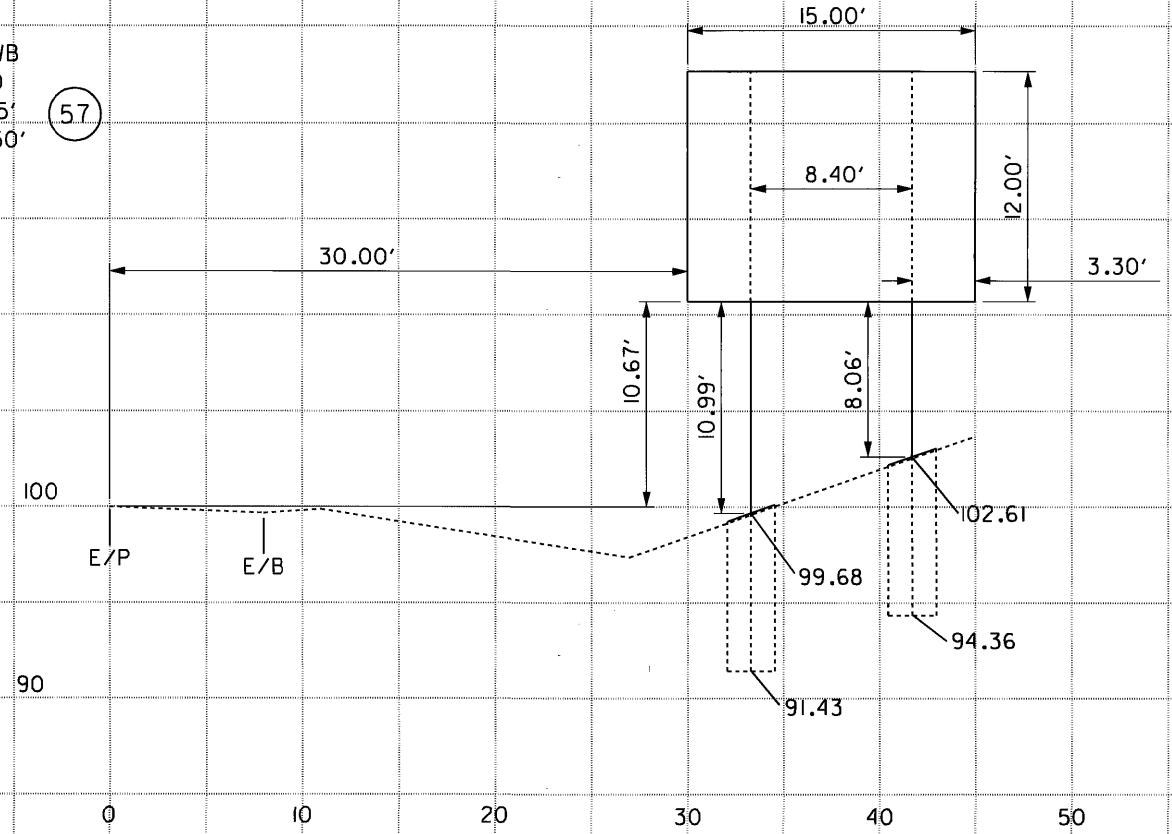
8.64 WB
WB X 18
L 23.25'
R 25.00'

53



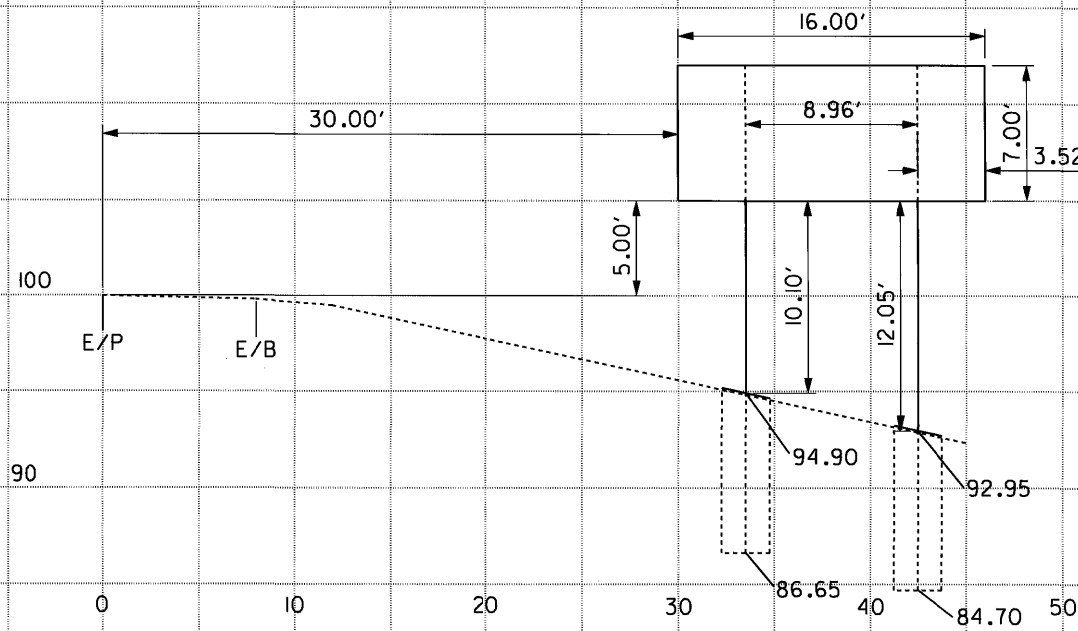
8.99 WB
W12X30
L 31.25'
R 28.50'

57



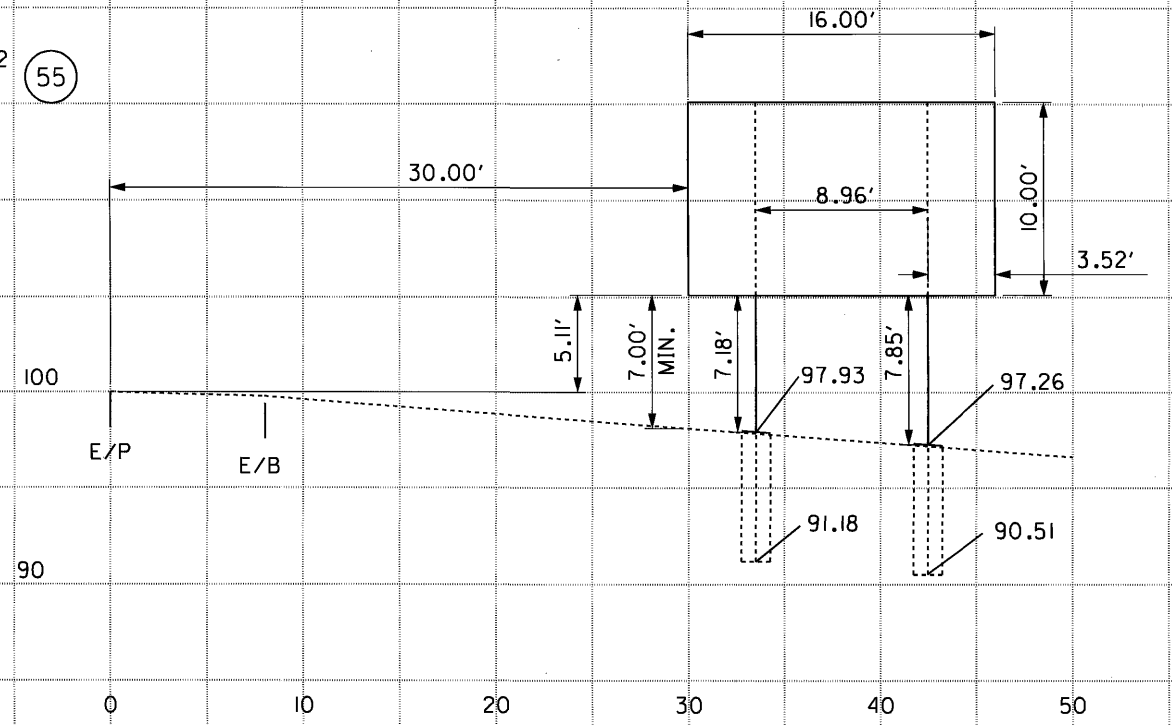
8.57 EB
W12X30
L 25.50'
R 27.50'

50



8.92 EB
W10 X 22
L 24.00'
R 24.75'

55

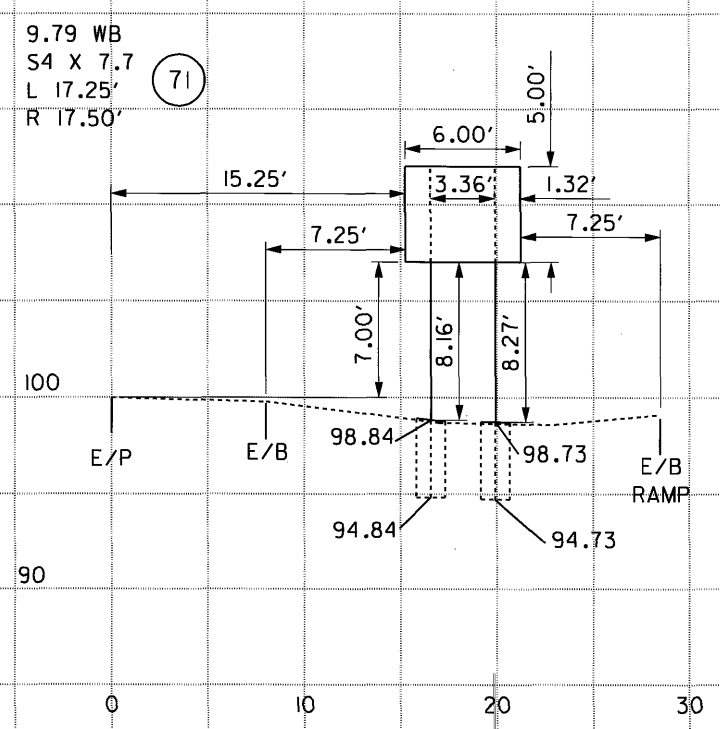
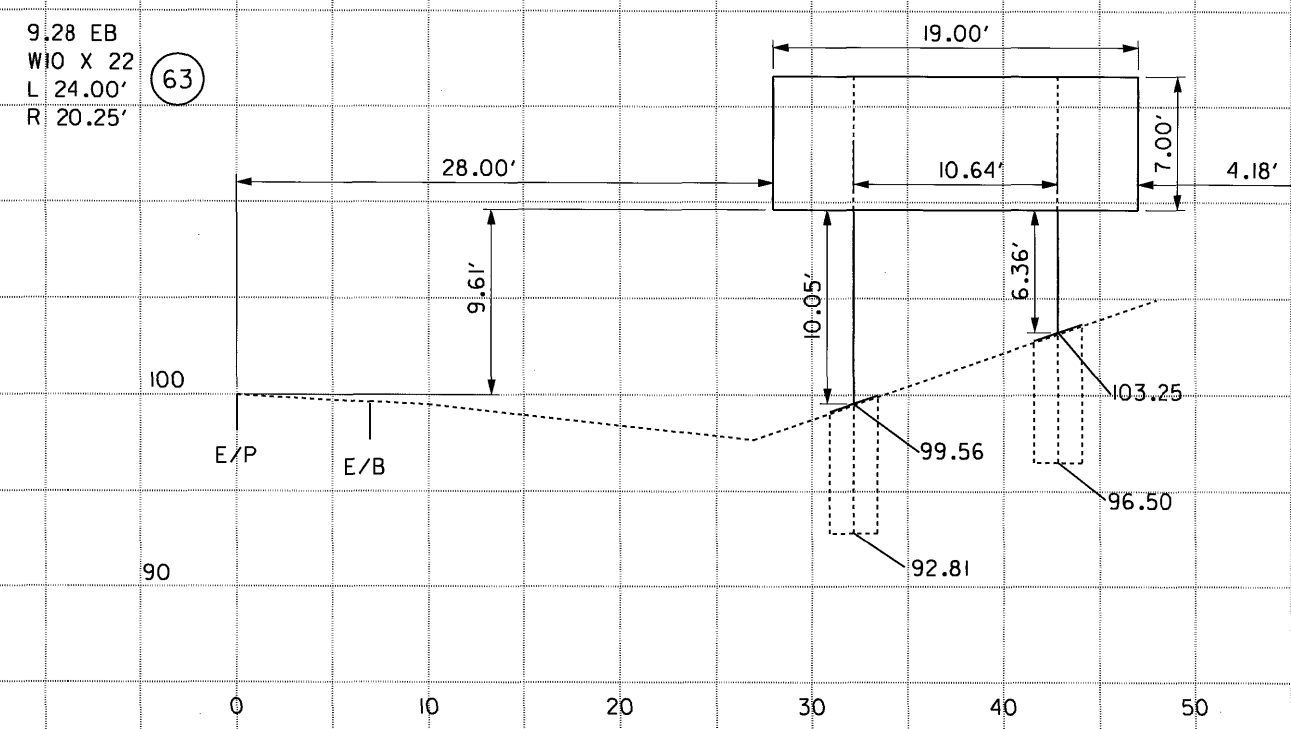
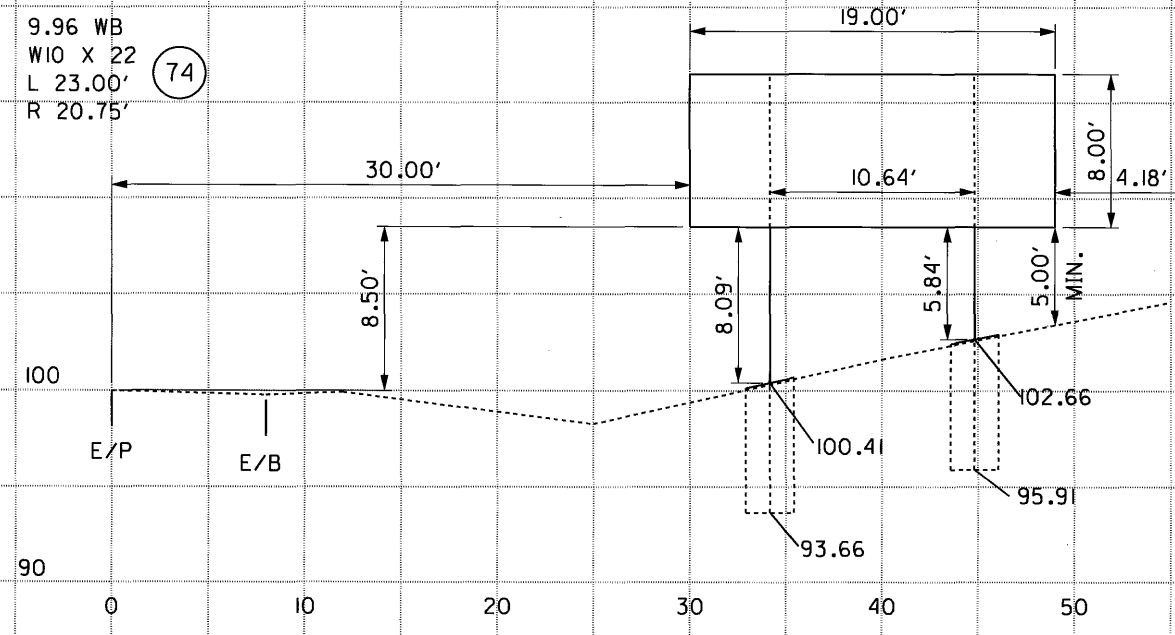
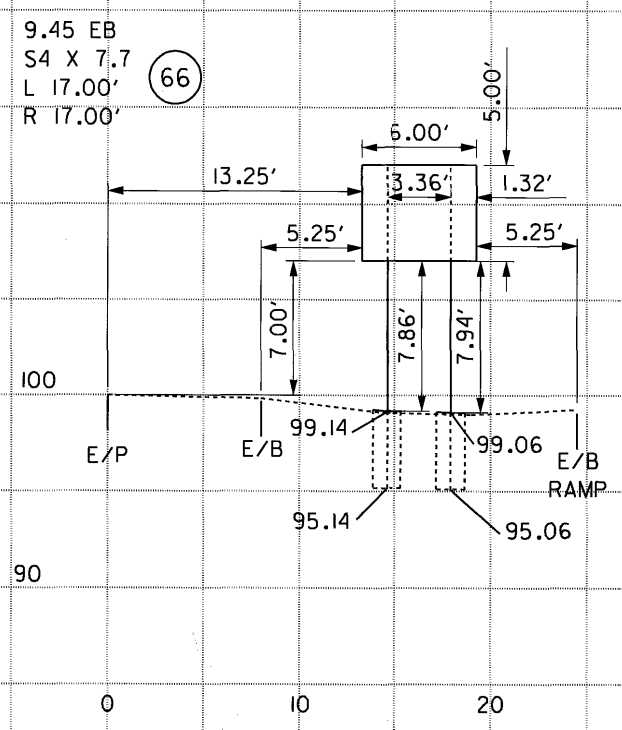


STA 30 CROSS SECTIONS

STA-30/297-6.06/0.17

50
60

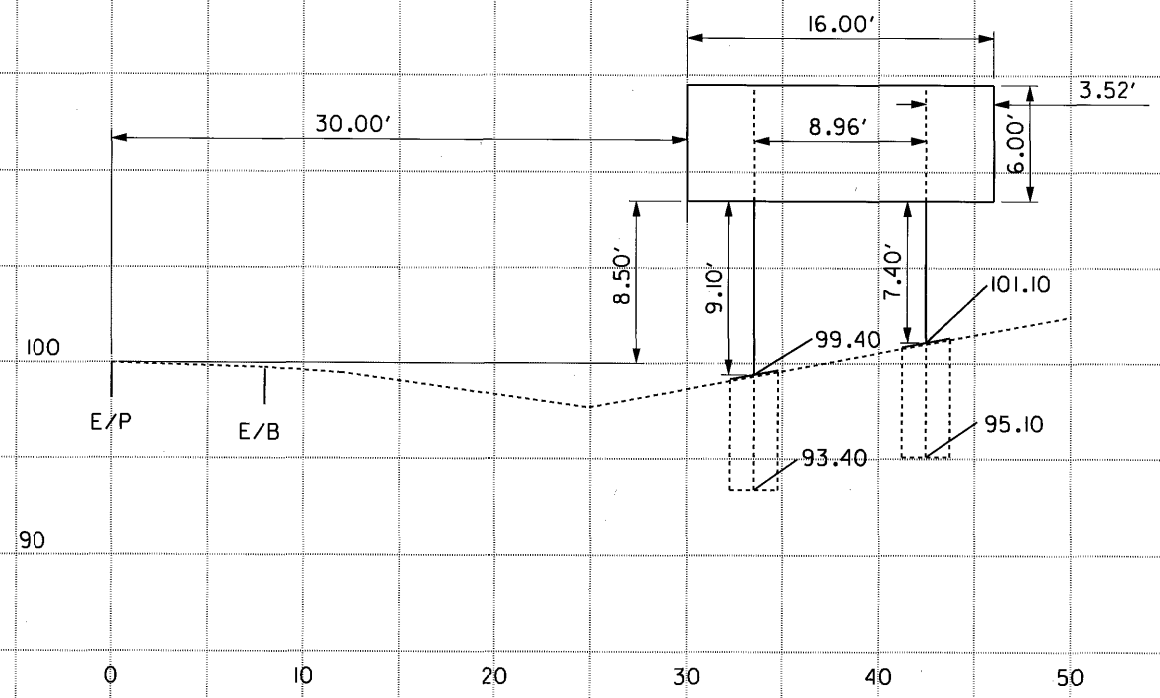
CALCULATED
WHV
CHECKED
LAB



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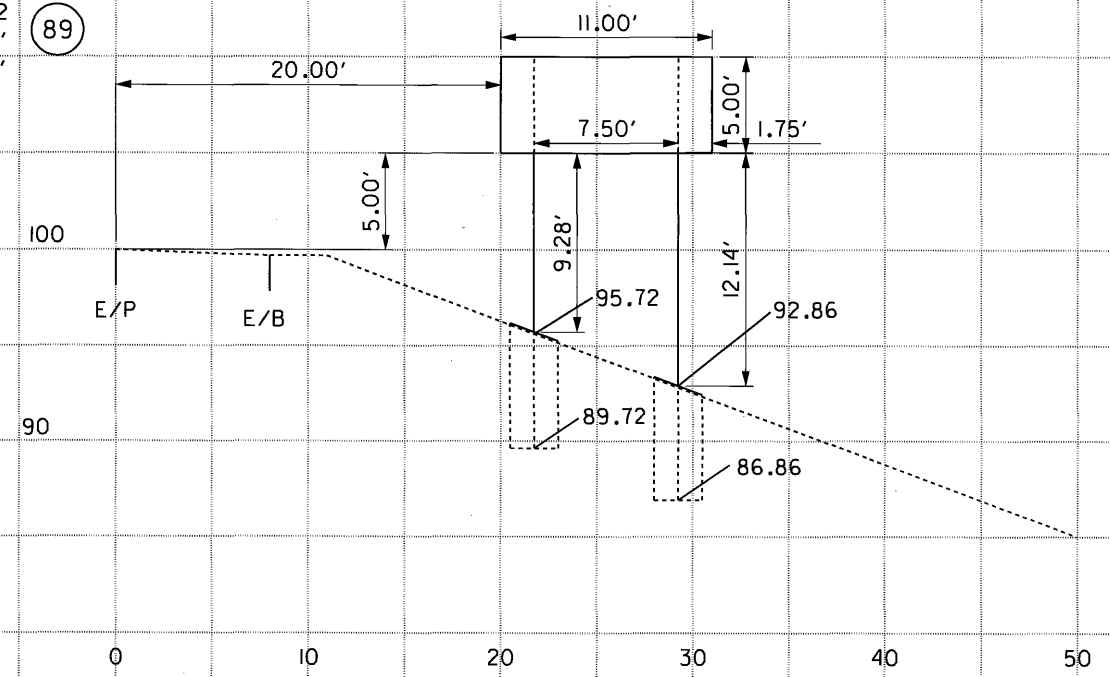
10.56 WB
W10 X 12
L 21.25'
R 19.50'

(87)



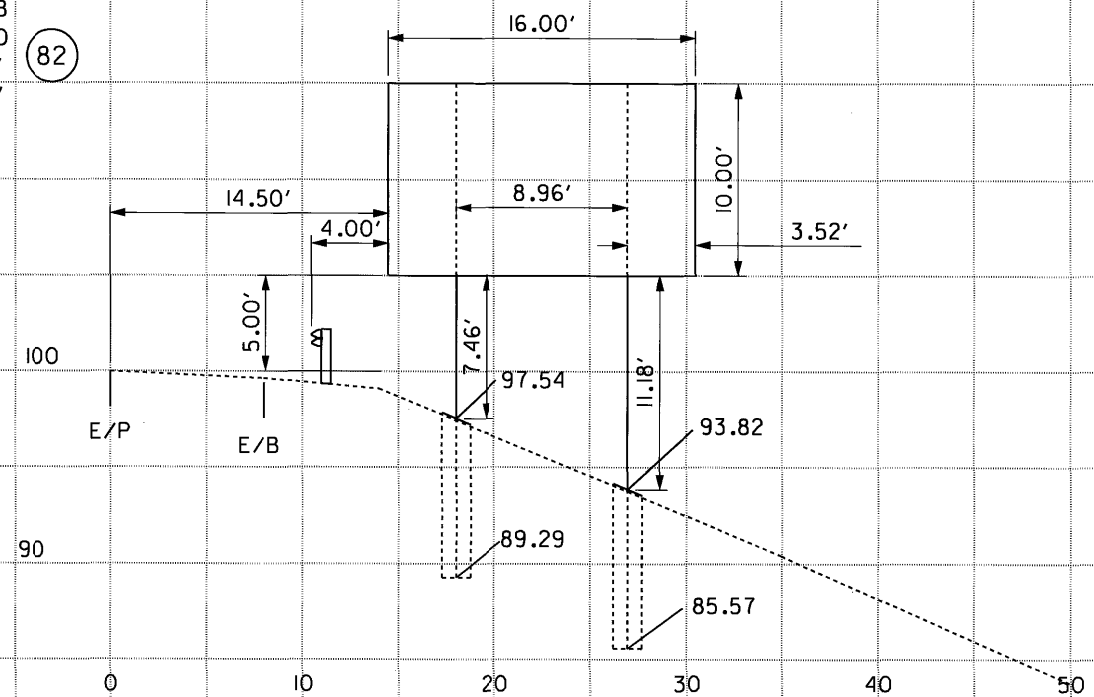
10.95 WB
W10 X 12
L 20.50'
R 23.25'

(89)



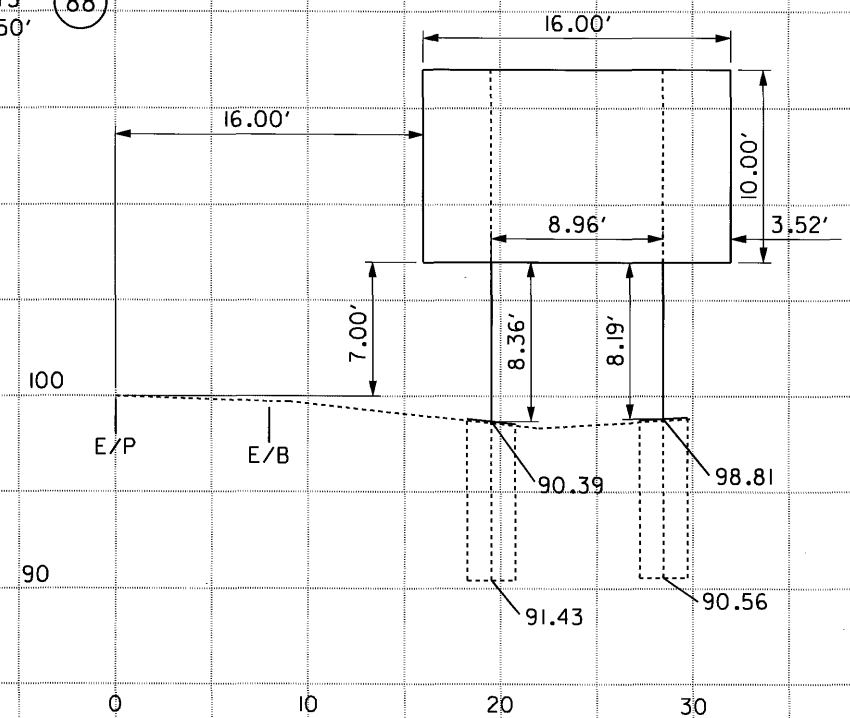
10.30 WB
W12 X 30
L 23.00'
R 23.50'

(82)



10.80 WB
W12X30
L 25.75'
R 26.50'

(88)

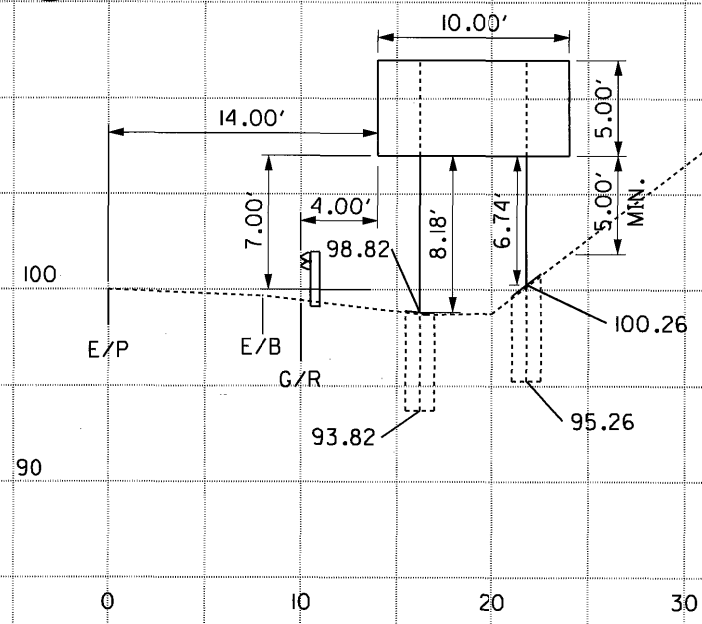


STA 30 CROSS SECTIONS

STA-30/297-6.06/0.17

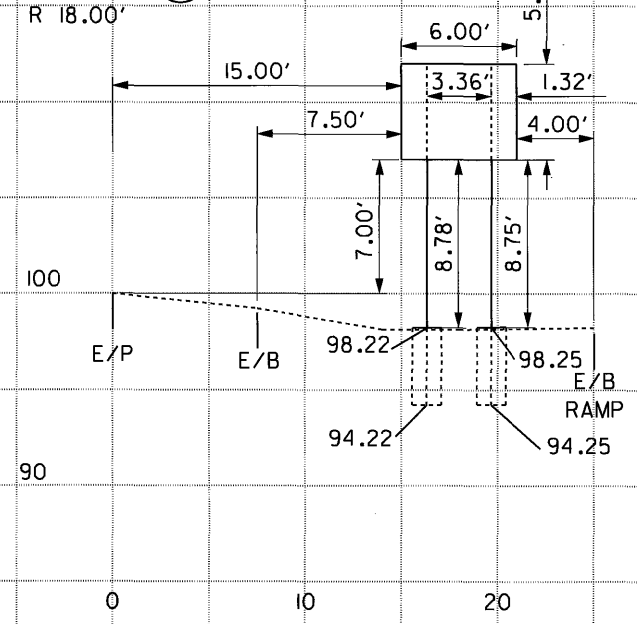
11.59 WB
W6 X 9
L 18.25'
R 16.75'

95



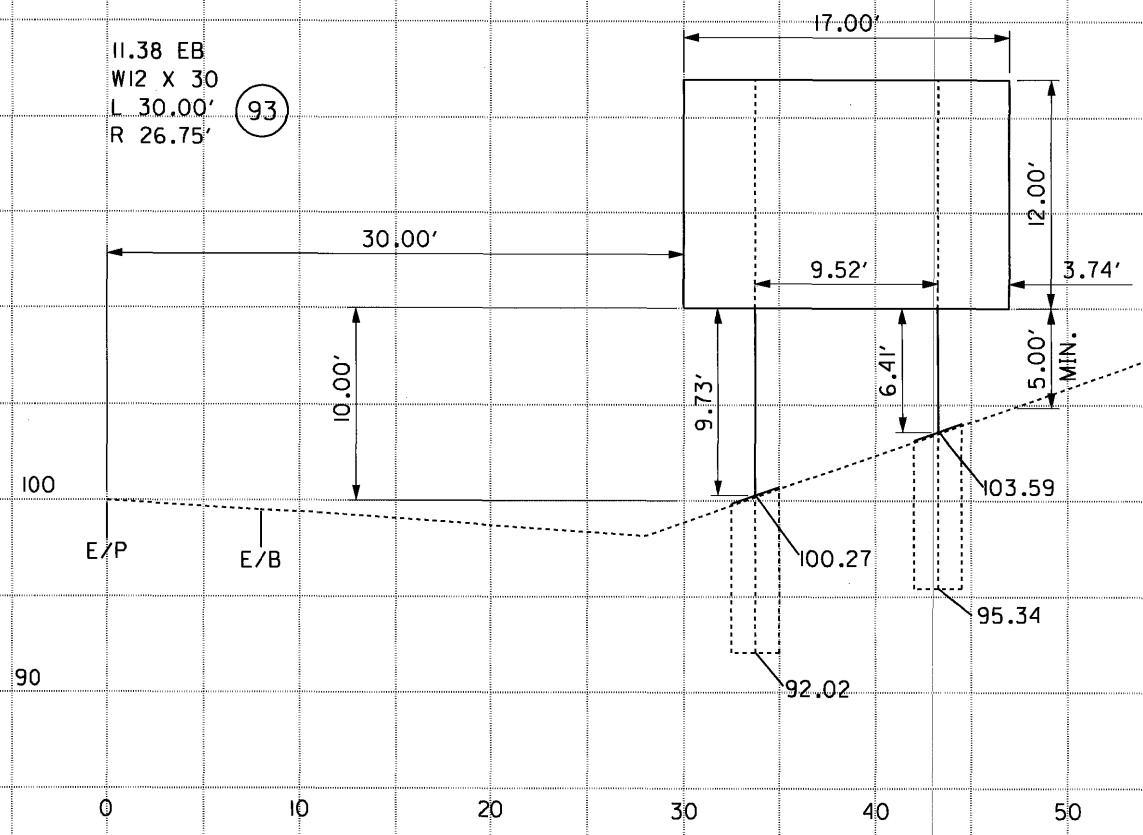
12.42 EB
S4 X 7.7
L 18.00'
R 18.00'

106



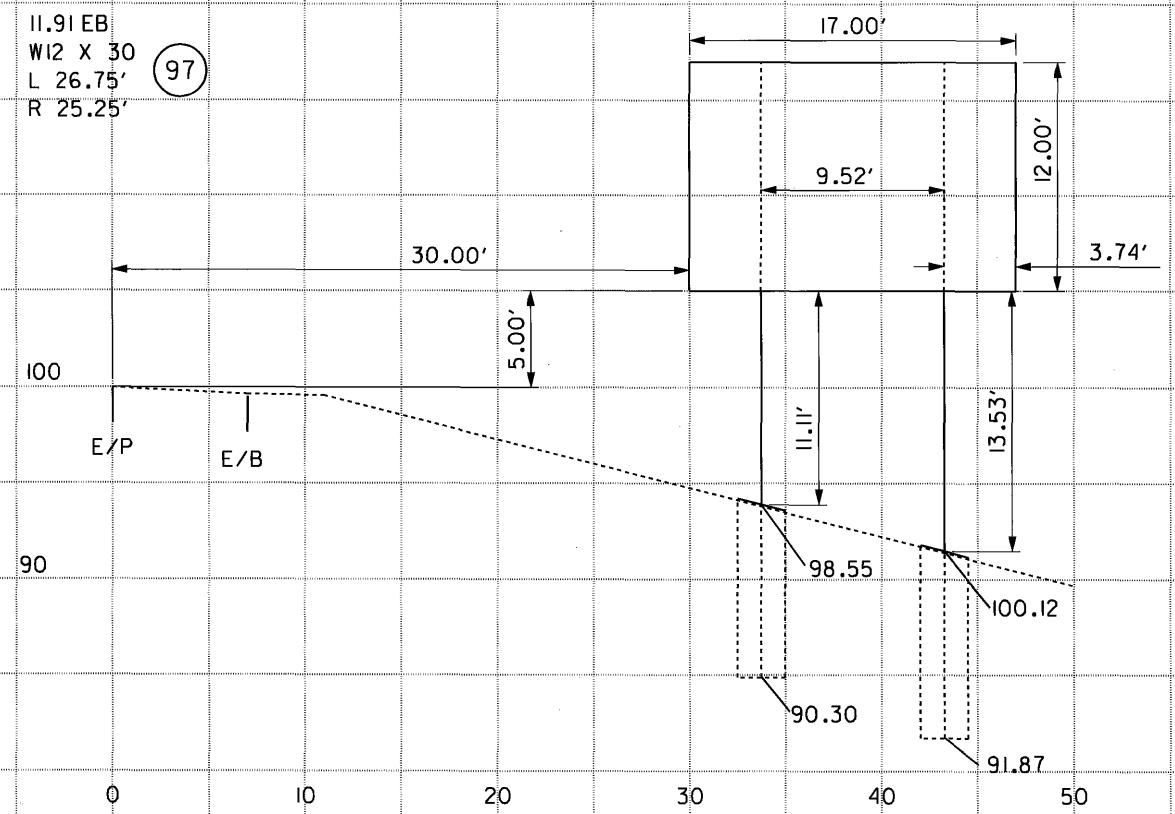
11.38 EB
W12 X 30
L 30.00'
R 26.75'

93



11.91 EB
W12 X 30
L 26.75'
R 25.25'

97



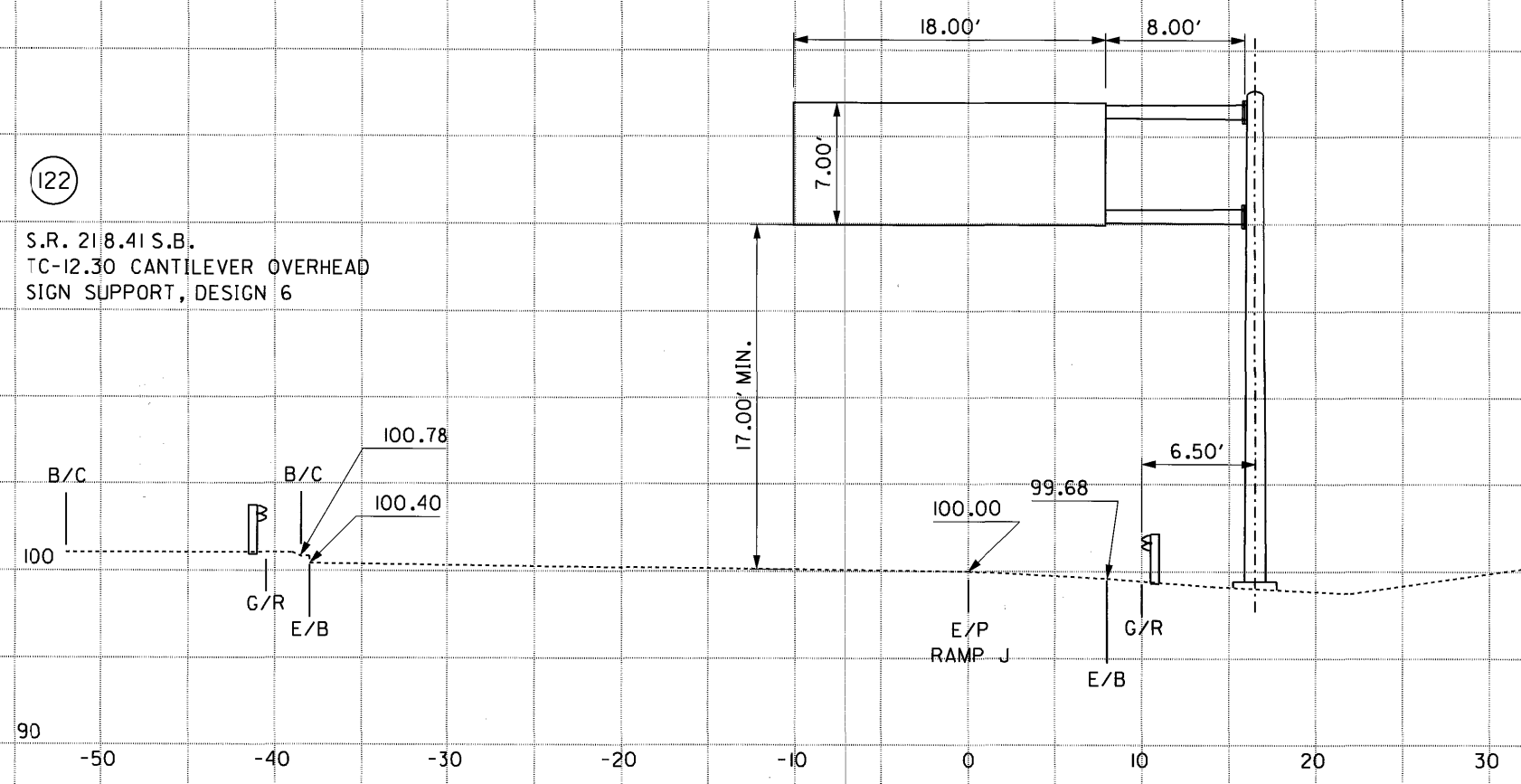
STA 30 CROSS SECTIONS

STA-30/297-6.06/0.17

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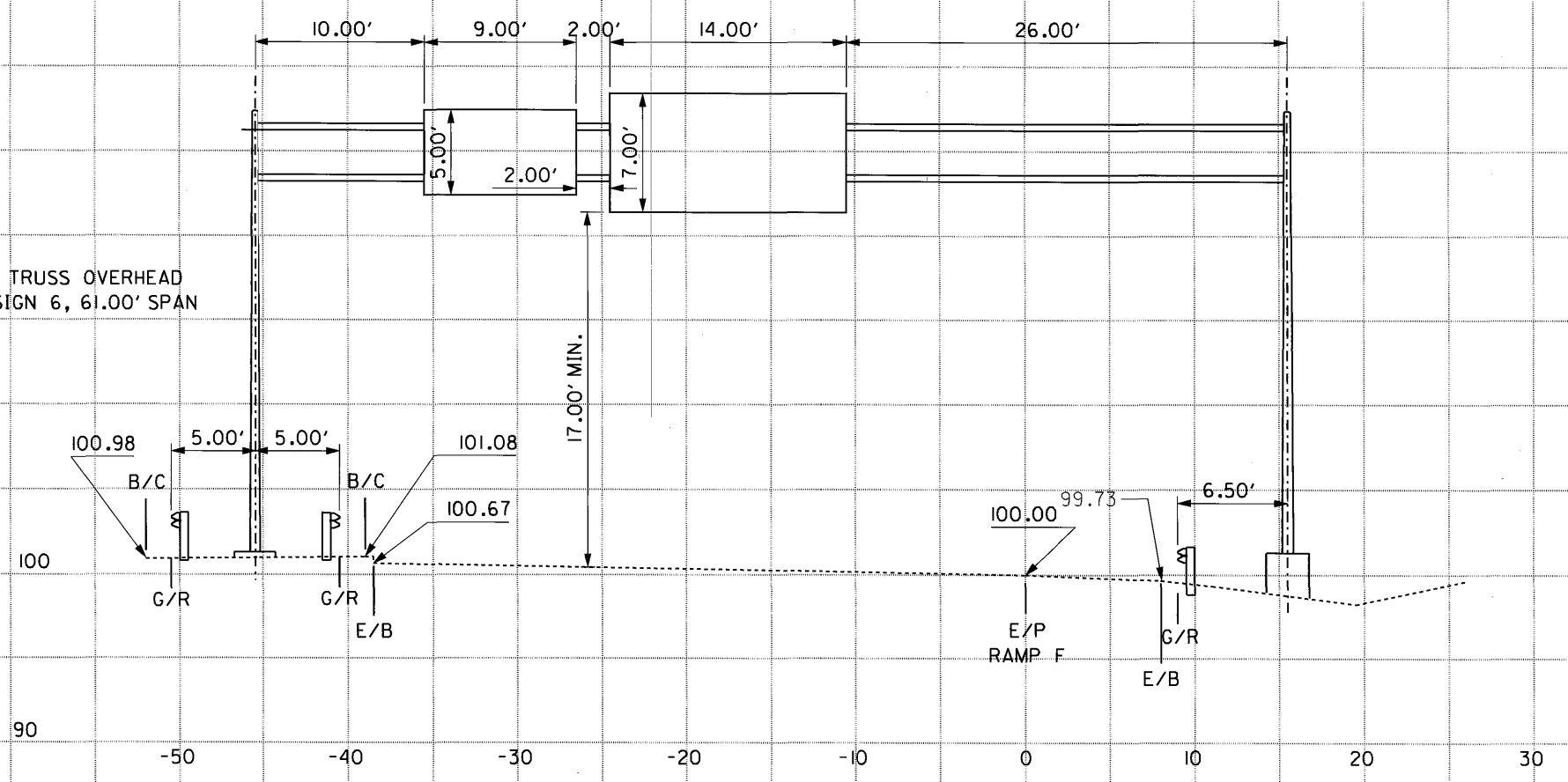
122

S.R. 218.41 S.B.
TC-12.30 CANTILEVER OVERHEAD
SIGN SUPPORT, DESIGN 6



119

S.R. 218.36 N.B.
TC-7.65 ALUMINUM TRUSS OVERHEAD
SIGN SUPPORT, DESIGN 6, 61.00' SPAN

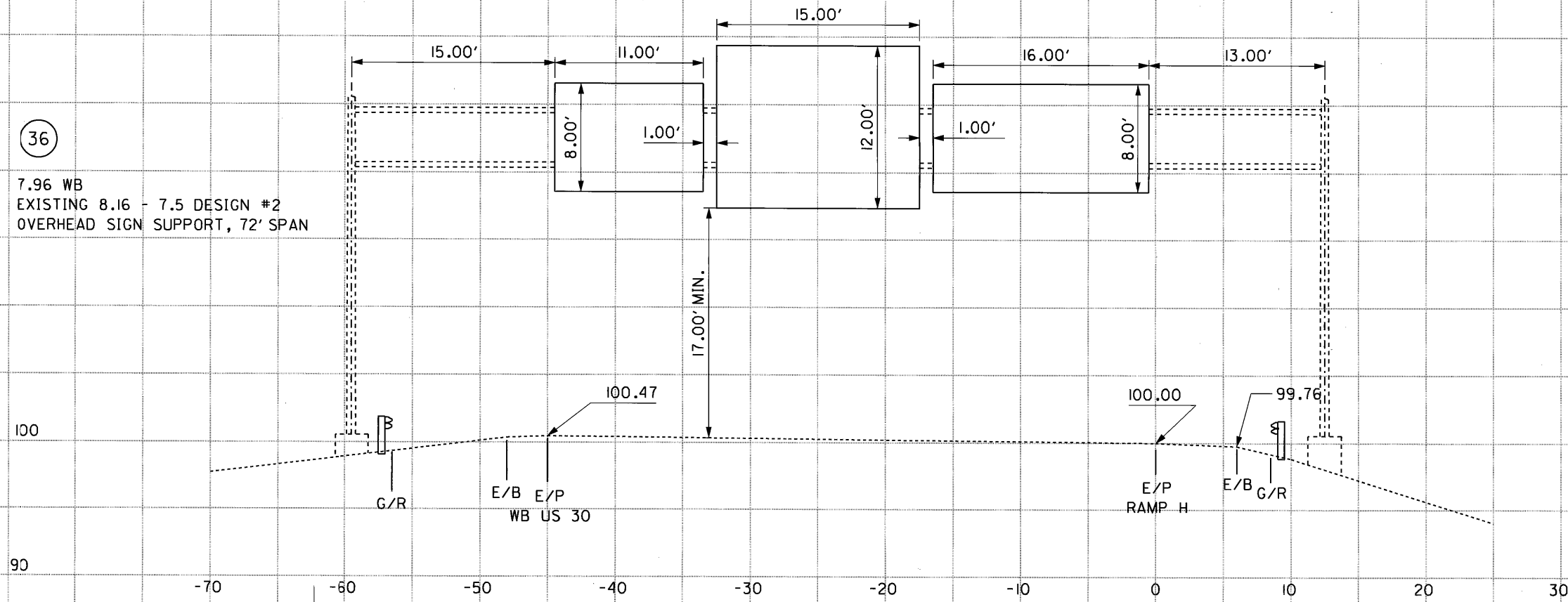


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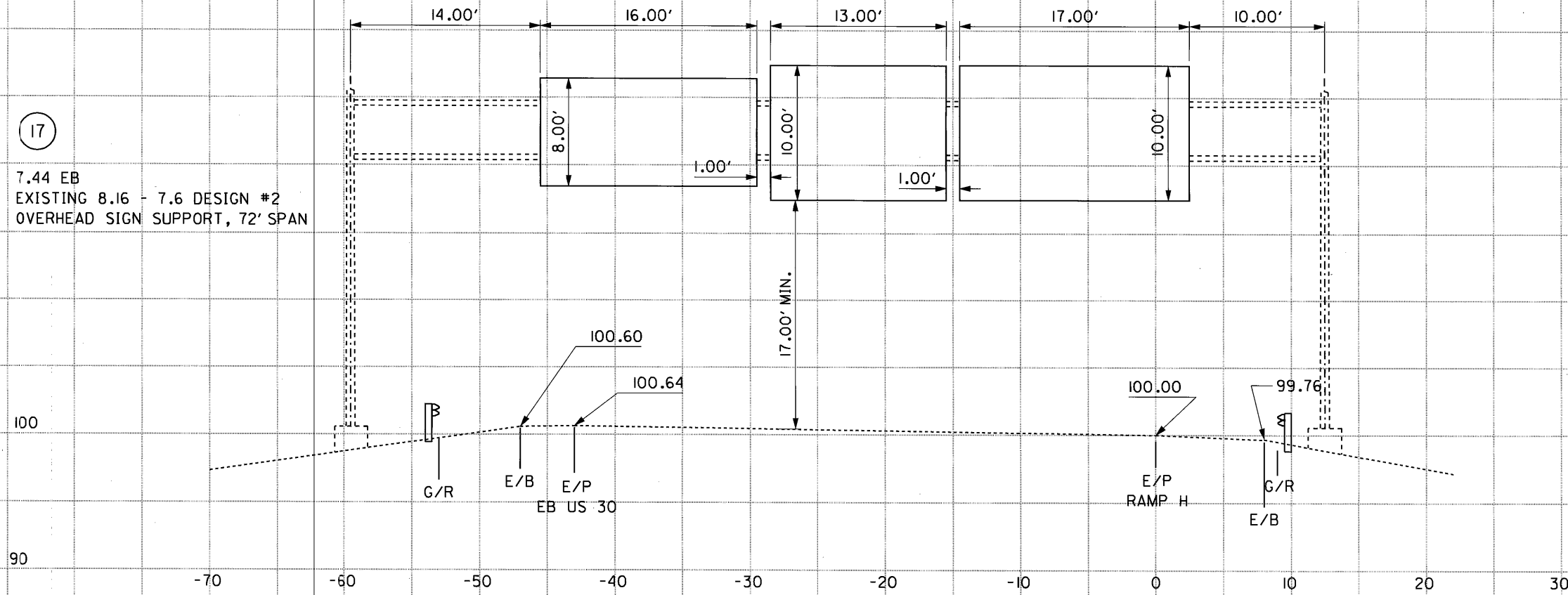
36

7.96 WB
EXISTING 8.16 - 7.5 DESIGN #2
OVERHEAD SIGN SUPPORT, 72' SPAN



17

7.44 EB
EXISTING 8.16 - 7.6 DESIGN #2
OVERHEAD SIGN SUPPORT, 72' SPAN



CALCULATED
WHV
CHECKED
LAB

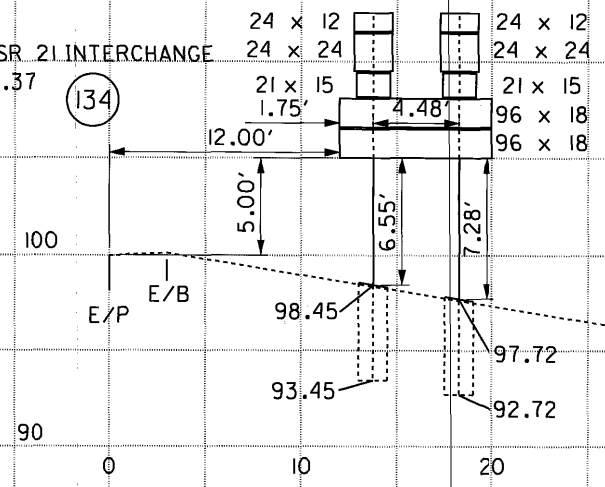
STA 30 CROSS SECTIONS

STA -30/297-6.06/0.17

55
60

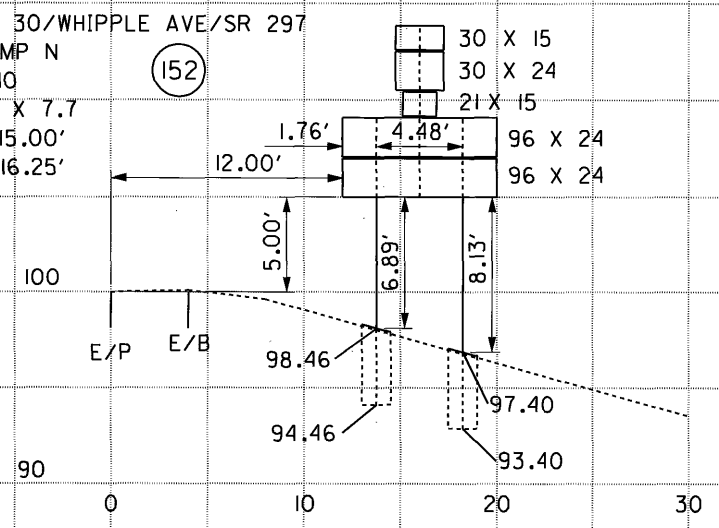
US 30 - SR 21 INTERCHANGE
RAMP L 0.37
W6 X 9
L 19.25
R 20.00'

(134)



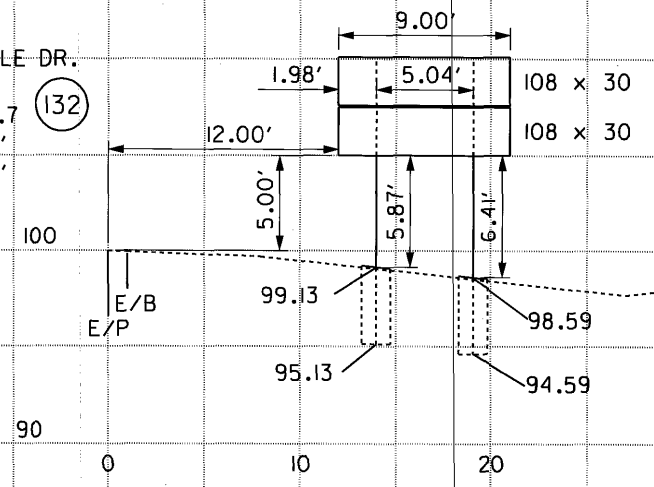
US 30/WHIPPLE AVE/SR 297
RAMP N
0.10
S4 X 7.7
L 15.00'
R 16.25'

(152)



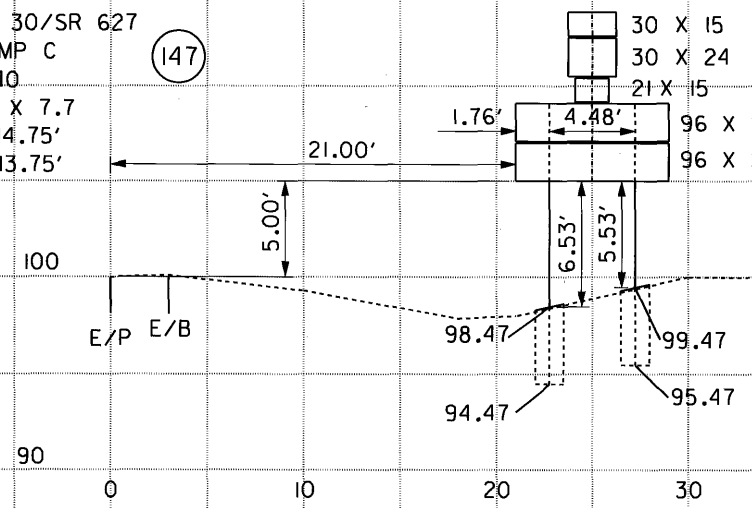
RICHVILLE DR.
0.21 SB
S4 X 7.7
L 15.00'
R 15.50'

(132)



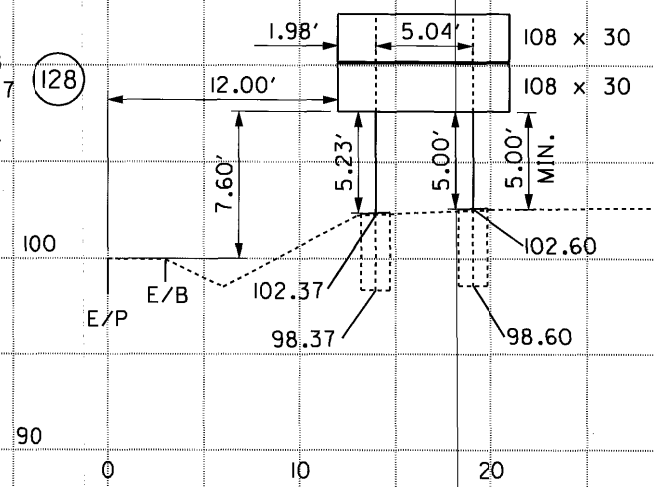
US 30/SR 627
RAMP C
2.40
S4 X 7.7
L 14.75'
R 13.75'

(147)



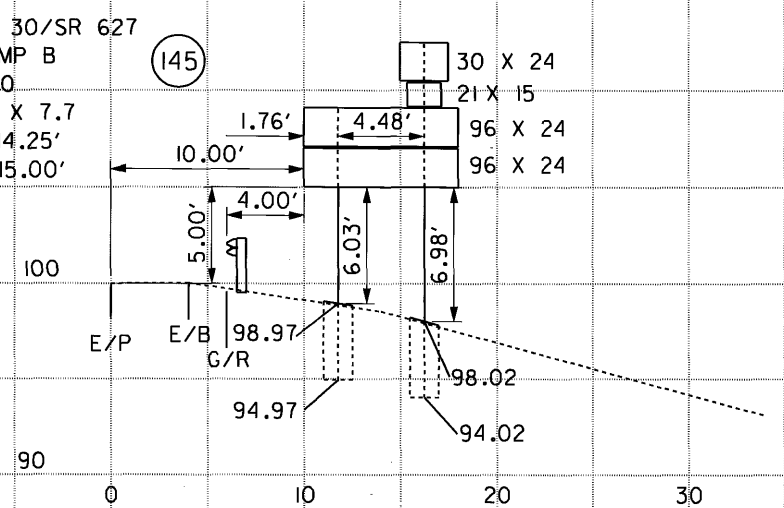
SR 627
0.29 NB
S4 X 7.7
L 14.25'
R 14.25'

(128)



US 30/SR 627
RAMP B
0.10
S4 X 7.7
L 14.25'
R 15.00'

(145)

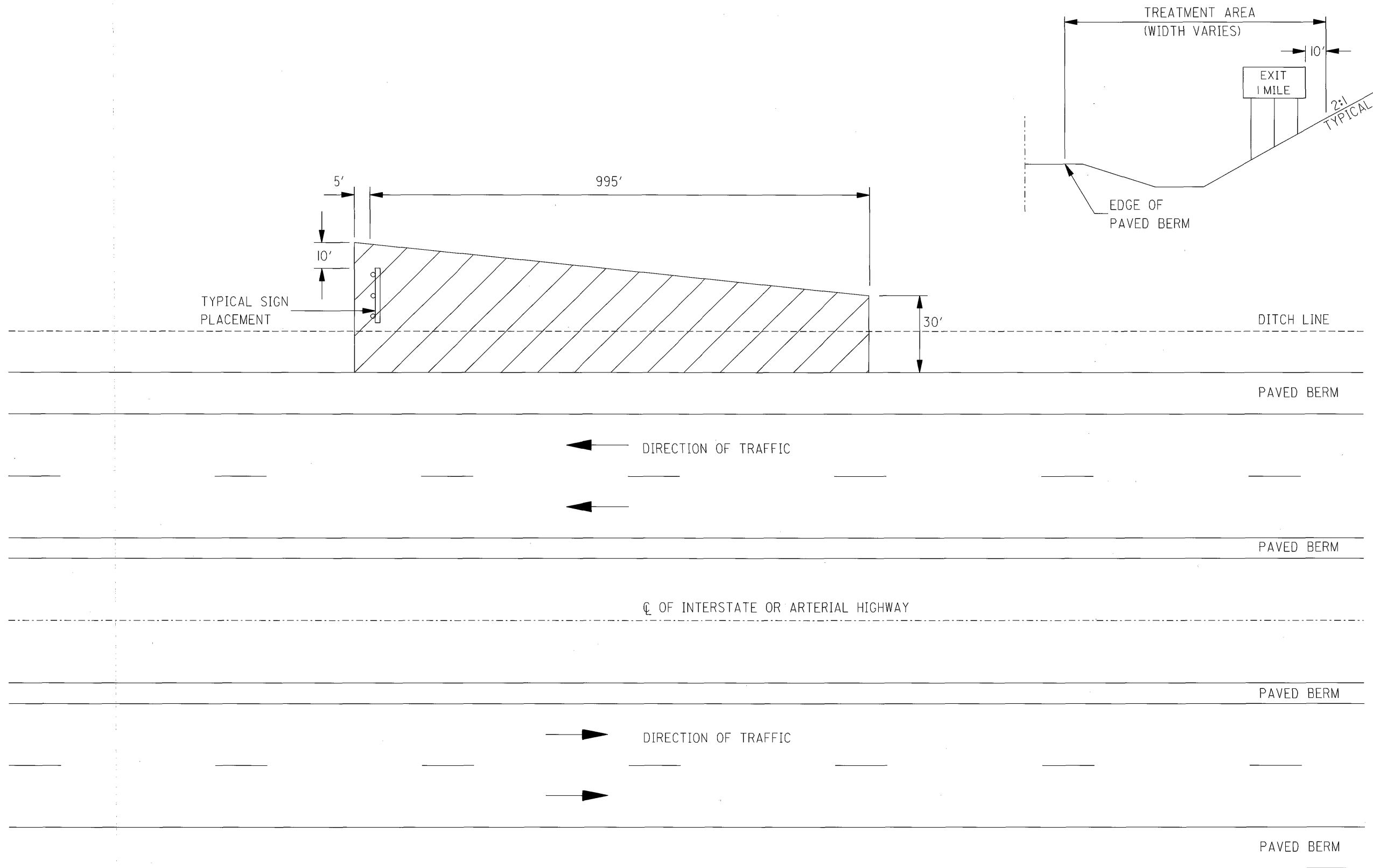


STA 30 CROSS SECTIONS

STA -30/ 297 -6.06/ 0.17

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* CLEAR SIGHT AREA

* PAY QUANTITY IS BASED ONLY ON ACTUAL AREAS MEASURED WHERE BRUSH CUTTING HAS BEEN PERFORMED WITHIN THE CLEAR SIGHT AREA.

CALCULATED
ALP
CHECKED

BRUSH CUT AND TREATED DETAIL

STA -30/ 297 -6.06 / 0.17

57
60

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

843 DATED 04/18/03

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002 AND THE ODOT BRIDGE DESIGN MANUAL.

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN: THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

EXISTING STRUCTURE VERIFICATION

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

ITEM 516 - REFURBISH BEARING DEVICES, AS PER PLAN

ITEM 516 - REFURBISHING BEARING DEVICES, AS PER PLAN: THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (7II.2I), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60 DEGREES F, LUBRICATING SLIDING SURFACES, AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT

THE CONTRACT PRICE BID FOR ITEM 516 - REFURBISH BEARING DEVICES, AS PER PLAN.

ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPER-STRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS.

THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 514 - FIELD PAINTING, MISC: REPAIR PAINTING

ALL PAINTED AREAS AT THE BEARINGS THAT ARE RUSTED SHALL BE CLEANED AND PAINTED AS FOLLOWS.

CMS 514.06 THROUGH 514.08 APPLY. REMOVE EXISTING PAINT COATING FROM THE AREA OF THE DAMAGED PAINT ACCORDING TO SSPC-SP3, POWER AND HAND TOOL CLEANING, AS SHOWN ON THE PICTORAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 3. THE ENGINEER WILL USE THE SSPC-VIS 3 TO DETERMINE THE ACCEPTANCE OF THE POWER TOOL CLEANING. CONTAIN AND DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO CMS 514.II D.

APPLY THE THREE-COAT PAINT SYSTEM, CMS 708.02, ACCORDING TO CMS 514.12 THROUGH 514.15. TINT THE FINISH COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR. THE ENGINEER WILL DETERMINE THE PRIME COAT THICKNESS; PRIME AND INTERMEDIATE COAT THICKNESS; AND PRIME, INTERMEDIATE AND FINISH COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. EACH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF CMS 514.18.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL NECESSARY EQUIPMENT TO INSPECT THIS WORK.

THE ORIGINAL COLOR OF THE PAINT WAS FEDERAL COLOR NUMBER 15526 (BLUE).

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN:

THIS ITEM SHALL BE USED TO REPAIR DISINTEGRATED CONCRETE SURFACES TO BE REPAIRED ON EACH STRUCTURE AS DIRECTED BY THE ENGINEER AFTER FIELD EXAMINATION. FINAL EXPOSED SURFACES SHALL HAVE A SMOOTH FINISH AND SHALL MATCH AS NEARLY AS PRACTICABLE THE SURROUNDING CONCRETE. ALL EXISTING REINFORCING STEEL SHALL HAVE AT LEAST 3 (THREE) INCH COVER AFTER

PATCHING HAS BEEN COMPLETED.

A CONCRETE BONDING AGENT SHALL BE APPLIED TO AREAS WHERE PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR IS PLACED ON OLD CONCRETE. THE CONCRETE BONDING AGENT SHALL BE APPLIED TO THE EXISTING PREPARED SURFACE AREAS. THE BONDING AGENT SHALL BE APPLIED AS PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND SHALL MEET THE REQUIREMENTS OF ASTM C-881. THE BONDING AGENT SHALL BE SUPPLIED BY ONE OF THE FOLLOWING OR EQUALLY APPROVED BY ODOT:

NITOBOND 881-12
FOSROC INC.
150 CARLEY COURT
GEORGETOWN, KY 40324

SIKADUR 32, HI-MOD LPL
SIKA CORP.
ADMIXTURE DIVISION
1682 MARION WILLIAMSPORT RD. E.
MARION, OH. 43302

CONCRESEIVE LIQUID LPL
MASTER BUILDERS, INC.
23700 CHAGRIN BLVD.
CLEVELAND, OHIO 44122-5554

ALL WORK SHALL BE DONE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION FOR: ITEM 843 PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR AND SHALL BE PAID FOR AT THE UNIT COST INCLUDING ALL ABOVE MENTIONED WORK AND INCIDENTALS FOR ITEM 843 PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN.

PHYSICAL INVENTORY OF MEASURED QUANTITIES OF DETERIORATION WAS PERFORMED IN

ESTIMATED QUANTITIES HAVE BEEN INCREASED BY 50% OVER MEASURED QUANTITIES TO ALLOW FOR ADDITIONAL DETERIORATION.

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-0958 L	REAR ABUT	20	30
	DECK	100	150
	PIERS	50	75
	FWD ABUT	20	30
	TOTAL		285

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-0958 R	REAR ABUT	20	30
	DECK	100	150
	PIERS	50	75
	FWD ABUT	20	20
	TOTAL		285

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-1032 L	REAR ABUT	100	150
	DECK	50	75
	PIERS	200	300
	FWD ABUT	100	150
	TOTAL		675

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-1032 R	REAR ABUT	20	30
	DECK	50	75
	PIERS	200	300
	FWD ABUT	20	30
	TOTAL		435

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-1259 L	REAR ABUT	100	150
	DECK	150	225
	PIERS	100	150
	FWD ABUT	100	150
	TOTAL		675

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-1259 R	REAR ABUT	100	150
	DECK	200	300
	PIERS	100	150
	FWD ABUT	100	150
	TOTAL		750

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-1305 L	REAR ABUT	100	150
	DECK	100	150
	PIERS	50	75
	FWD ABUT	100	150
	TOTAL		525

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN			
STRUCTURE	LOCATION	MEASURED QTY (SQ FT)	ESTIMATED QTY (SQ FT)
STA-030-1305 R	REAR ABUT	100	150
	DECK	100	150
	PIERS	50	75
	FWD ABUT	100	150
	TOTAL		525

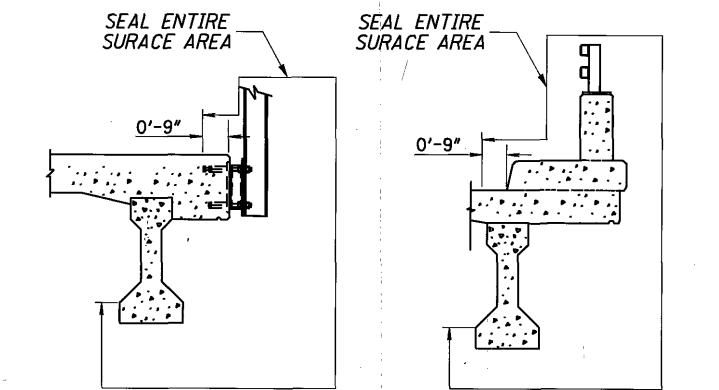
THESE QUANTITIES ARE CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES.

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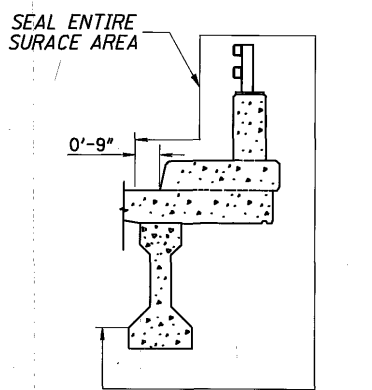
DESIGN AGENCY: ODOT --- DISTRICT 4
 DATE: 01/30/06
 REVIEWED: TJP
 DRAWN: JEL
 DESIGNED: JEL
 STRUCTURE FILE NUMBER: 1001563, 1001564, 1001565, 1001566, 1001567, 1001568, 1001569
 STRUCTURE GENERAL NOTES
 BRIDGE NOS. STA-30-0958 L & R, STA-30-1032 L & R, STA-30-1259 L & R AND STA-30-1305 L & R
 STA-30/297-6.06/0.17
 PID No. 23754
 1/3
 58
 60

BRIDGE NO.	STRUCTURE TYPE	PROPOSED SEALING	FEDERAL COLOR NUMBER	ESTIMATED QUANTITIES				
				ABUT SQ YD	PIER SQ YD	SUPER SQ YD	GEN SQ YD	TOTAL SQ YD
STA-030-0958L	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	66	185	340	41	632
STA-030-0958R	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	66	185	340	41	632
STA-030-1032L	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	70	193	262	41	566
STA-030-1032R	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	70	193	262	41	566
STA-030-1259L	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	55	185	237	41	518
STA-030-1259R	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	55	185	237	41	518
STA-030-1305L	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	55	184	338	41	618
STA-030-1305R	3 SPAN CONTINUOUS STEEL BEAM	SEAL PARAPETS PER DETAIL G SEAL ALL EXPOSED CONCRETE AT ABUTMENTS SEAL ALL EXPOSED CONCRETE AT PIERS	LIGHT NEUTRAL 595B-17778	55	184	338	41	618

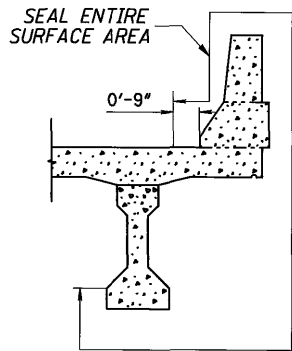
NOTES:
 - EPOXY-URETHANE SEALER SHALL BE USED UNLESS SHOWN OTHERWISE
 - DETAILS E, F, G AND H ALSO APPLY TO CONCRETE SLAB BRIDGES



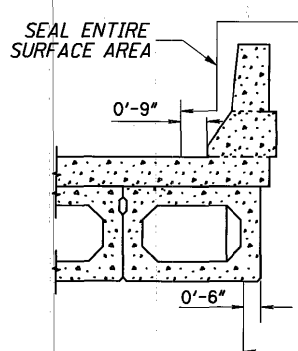
DETAIL A
 CONCRETE DECKS WITH
 OVER THE SIDE DRAINAGE



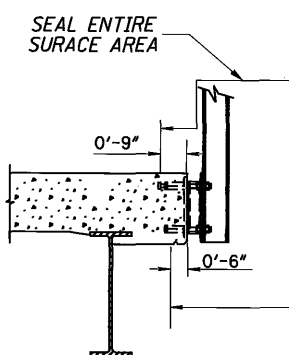
DETAIL B
 CONCRETE DECKS WITH CURBS,
 SIDEWALKS AND PARAPET



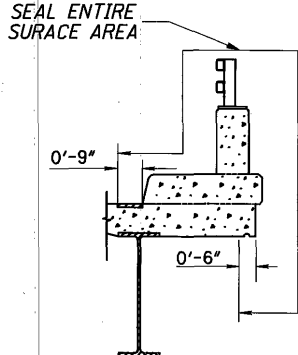
DETAIL C
 CONCRETE DECK WITH
 DEFLECTOR PARAPET



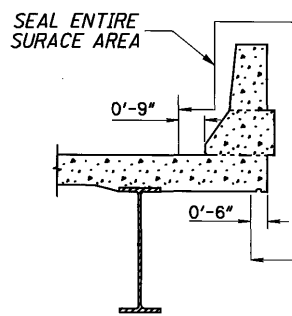
DETAIL D
 PRESTRESSED BOX BEAM DECK
 WITH DEFLECTOR PARAPET



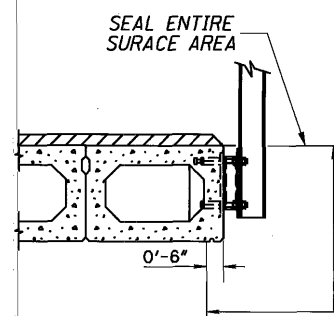
DETAIL E
 CONCRETE DECKS WITH
 OVER THE SIDE DRAINAGE



DETAIL F
 CONCRETE DECKS WITH CURBS,
 SIDEWALKS AND PARAPET



DETAIL G
 CONCRETE DECK WITH
 DEFLECTOR PARAPET



DETAIL H
 PRESTRESSED BOX BEAM DECK
 WITH OVER THE SIDE DRAINAGE

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DESIGN AGENCY: ODOT --- DISTRICT 4
 PRODUCTION
 DATE: 01/30/06
 STRUCTURE FILE NUMBER: STA030_0958L_7607684_7607692_7607694_7607698_7607699_7607700_7607701_7607702
 REVIEWED: TJP
 DRAWN: JEL
 CHECKED: JEL
 DESIGNED: JEL
 REVISIONS:
 CONCRETE SEALING DETAILS
 STRUCTURE NUMBERS STA-30-0958 L & R, STA-30-1032 L & R, STA-30-1259 L & R AND STA-30-1305 L & R
 STA-30/297-6.06/0.17
 PID No. 23754
 3/3
 60/60

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

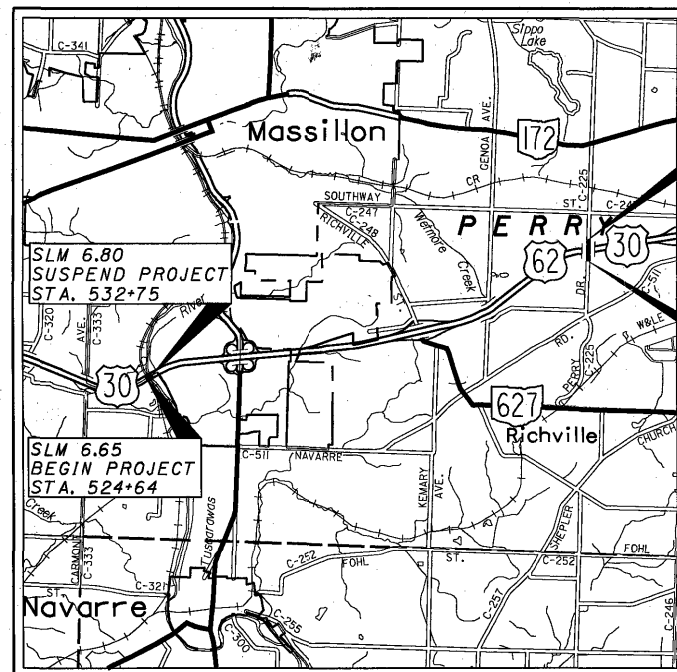
STA-30-(6.70)(11.57)

PART 2

RECONSTRUCTION OF EXISTING SEPARATED CROSSING WITH THE R.J. CORMAN RAILROAD

CITY OF MASSILLON PERRY TOWNSHIP STARK COUNTY

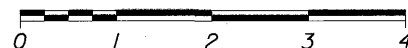
FOR PART 1, SEE STA-30/ 297-6.06 / 0.17



LOCATION MAP

PROJECT	LATITUDE	LONGITUDE
STA-30-6.70	N40°45'29"	W81°32'03"
STA-30-11.57	N40°46'35"	W81°26'49"

SCALE IN MILES



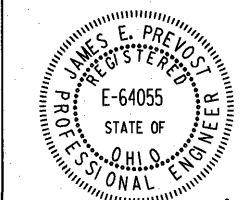
PORTION TO BE IMPROVED	SYMBOL
INTERSTATE & DIVIDED HIGHWAY	
UNDIVIDED STATE & FEDERAL ROUTES	
OTHER ROADS	

DESIGN DESIGNATION	U.S. 30 (6.70)	U.S. 30 (11.57)	PERRY DR.
CURRENT ADT (2006)	19800	31700	8700
DESIGN YEAR ADT (2026)	25200	36200	11100
DESIGN HOURLY VOLUME (2026)	2268	3261	1110
DIRECTIONAL DISTRIBUTION	0.60	0.60	0.60
TRUCKS (24 HOUR B&C)	0.22	0.14	0.03
DESIGN SPEED	65	65	35
LEGAL SPEED	65	65	35
DESIGN FUNCTIONAL CLASSIFICATION -	URBAN FREEWAY (EXPRESSWAY)	URBAN FREEWAY (EXPRESSWAY)	URBAN ARTERIAL
DESIGN EXCEPTIONS			

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS	NORMAL DESIGN CRITERIA	ACTUAL VALUE
SHOULDER WIDTH	1/09/2006	4-5	17'	13'
SHOULDER WIDTH	1/09/2006	6	14'	6.5'
SHOULDER WIDTH	1/09/2006	6	14'	8.5'

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

ENGINEERS SEAL:



SIGNED: *James E. Prevost*
DATE: 2/06/06

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			SEE PART 1		SEE PART 1
					SPECIAL PROVISIONS
					SEE PART 1

PROJECT DESCRIPTION

STA-30-6.70
REHABILITATION OF THE EXISTING 5-SPAN CONTINUOUS STEEL GIRDER STRUCTURE OVER THE TUSCARAWAS RIVER WITH A PRESTRESSED CONCRETE I-BEAM WITH MINIMAL ROADWAY WORK. THE PROJECT LENGTH IS 811'.

STA-30-11.57
REHABILITATION OF THE EXISTING 4-SPAN CONTINUOUS STEEL BEAM STRUCTURE OVER U.S. 30 WITH MINIMAL ROADWORK WORK. THE PROJECT LENGTH IS 525'.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

PROJECT EARTH DISTURBING AREAS

	6.70	11.57
PROJECT EARTH DISTURBED AREA	1.86 AC.	1.26 AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	1.61 AC.	1.28 AC.
NOTICE OF INTENT EARTH DISTURBED AREA	4.90 AC.	4.90 AC.

2005 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF PERRY DRIVE TO TRAFFIC AND THAT DETOURS WILL BE REQUIRED AS INDICATED ON SHEET 56. IMPROVEMENTS ON U.S. 30 WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (H) OF THE OHIO REVISED CODE, THE REVISED PRIMA FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETERMINED TO BE REASONABLE AND SAFE, AND ARE HEREBY ESTABLISHED FOR THE DURATION OF THIS PROJECT. THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPROPRIATE SIGNS GIVING NOTICE THEREOF ARE ERECTED.

APPROVED: *M. S. ...*
DATE 2-9-06 DISTRICT DEPUTY DIRECTOR

APPROVED: *James E. Prevost*
DATE 5-15-06 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.
E 033(671)

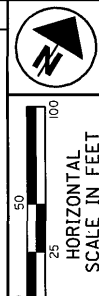
PID NO.
23754

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
R.J. CORMAN RAILROAD

STA-30-(6.70)(11.57)

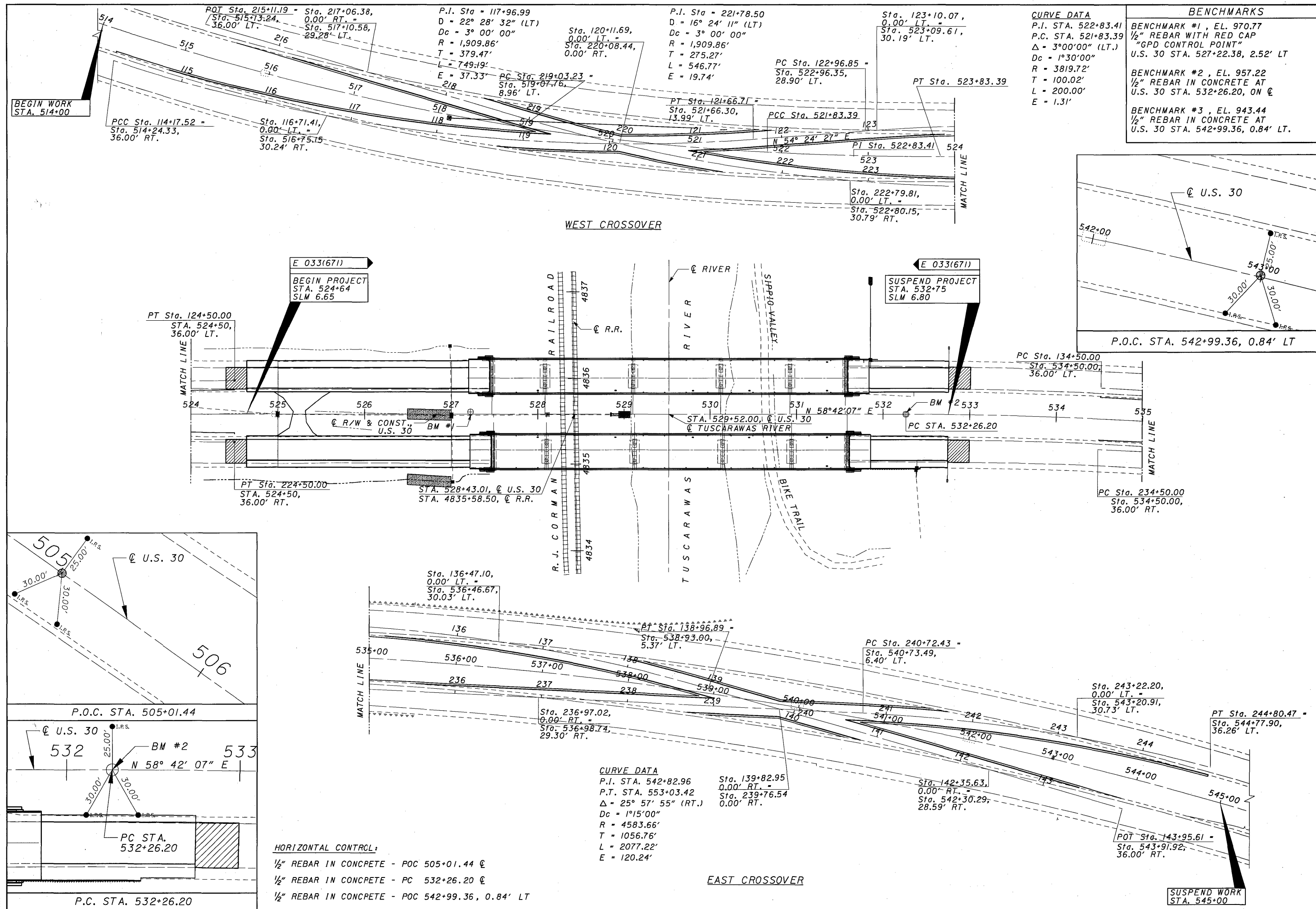
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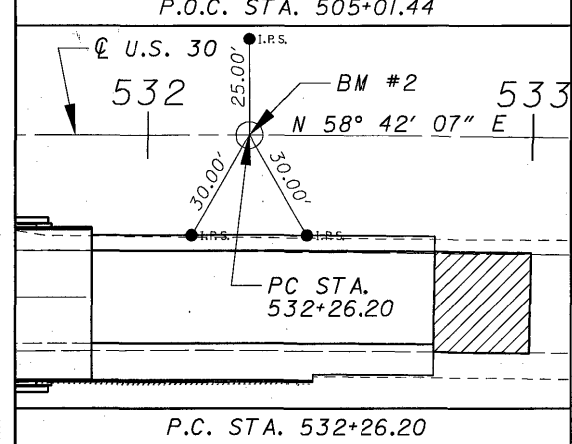
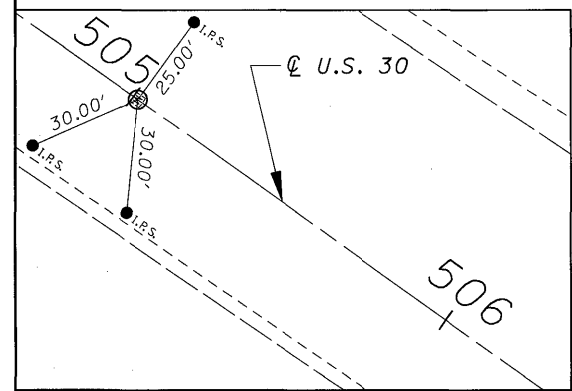
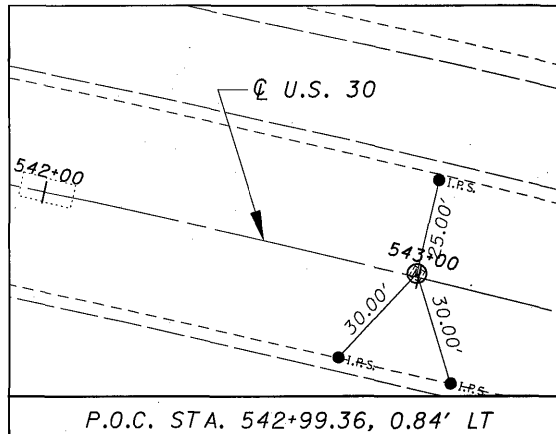
CALCULATED
RJS
CHECKED
SJS

**SCHEMATIC PLAN
RAILROAD & TUSCARAWAS RIVER**

STA-30-(6.70)(11.57)

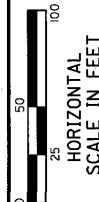


CURVE DATA		BENCHMARKS	
P.I. STA. 522+83.41	P.C. STA. 521+83.39	BENCHMARK #1, EL. 970.77	1/2" REBAR WITH RED CAP
$\Delta = 3^{\circ}00'00"$ (LT.)	$\Delta = 1^{\circ}30'00"$	BENCHMARK #2, EL. 957.22	1/2" REBAR IN CONCRETE AT
Dc = 3819.72'	R = 3819.72'	U.S. 30 STA. 532+26.20, ON ϕ	
T = 100.02'	L = 200.00'	BENCHMARK #3, EL. 943.44	1/2" REBAR IN CONCRETE AT
E = 1.31'		U.S. 30 STA. 542+99.36, 0.84' LT.	



- HORIZONTAL CONTROL:**
- 1/2" REBAR IN CONCRETE - POC 505+01.44 ϕ
 - 1/2" REBAR IN CONCRETE - PC 532+26.20 ϕ
 - 1/2" REBAR IN CONCRETE - POC 542+99.36, 0.84' LT

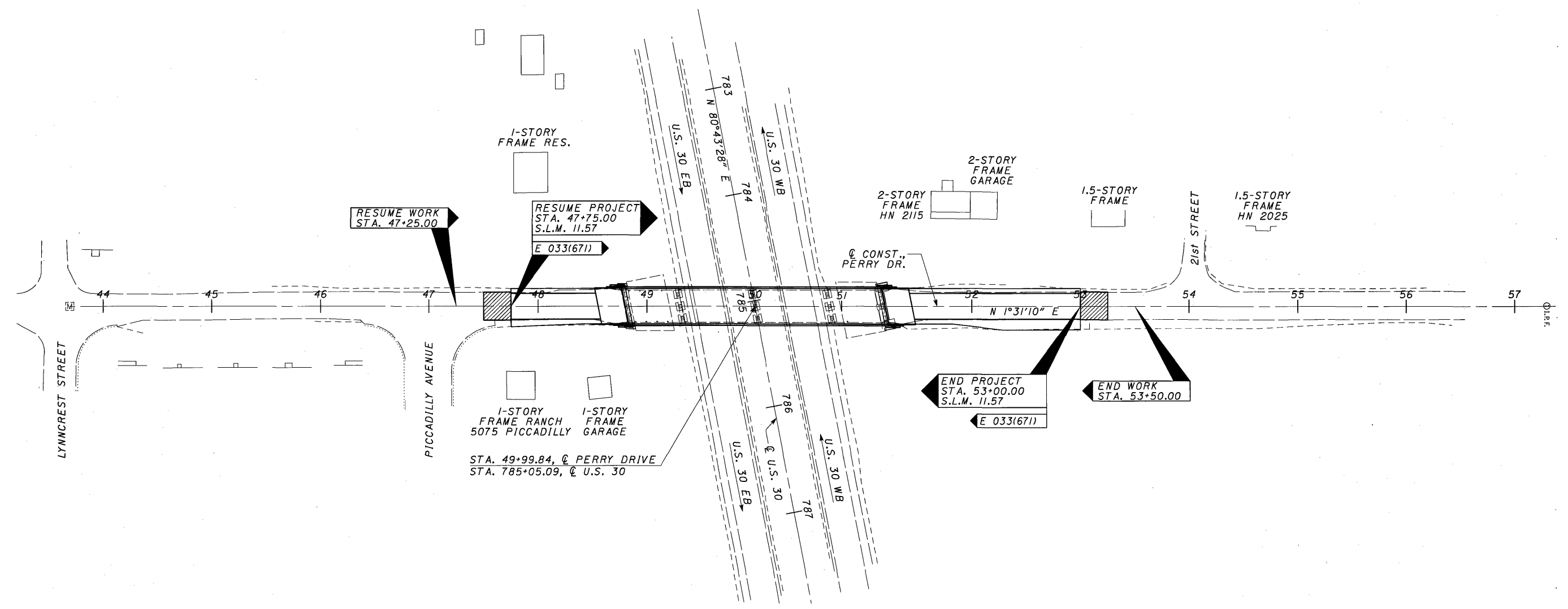
CURVE DATA	
P.I. STA. 542+82.96	Sta. 139+82.95
P.T. STA. 553+03.42	0.00' RT.
$\Delta = 25^{\circ}57'55"$ (RT.)	Sta. 239+76.54
Dc = 1°15'00"	0.00' RT.
R = 4583.66'	
T = 1056.76'	
L = 2077.22'	
E = 120.24'	



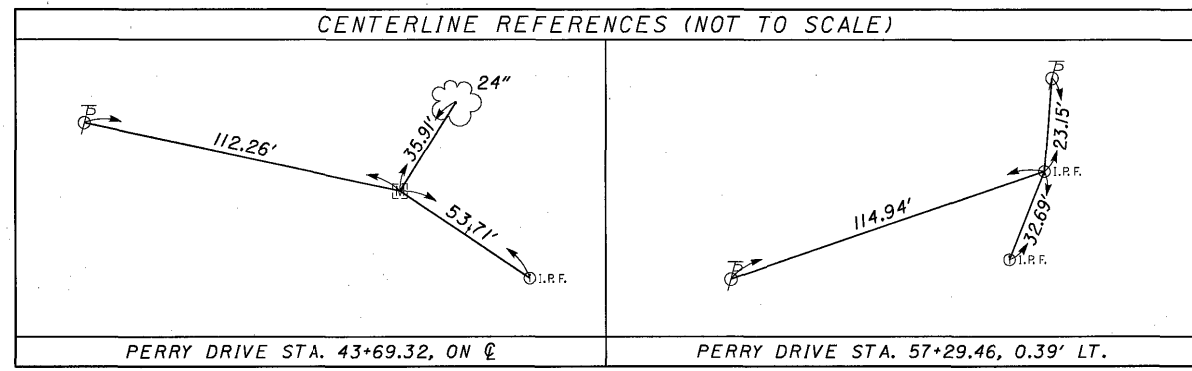
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RJS
CHECKED
SJS

**SCHEMATIC PLAN
PERRY DRIVE**

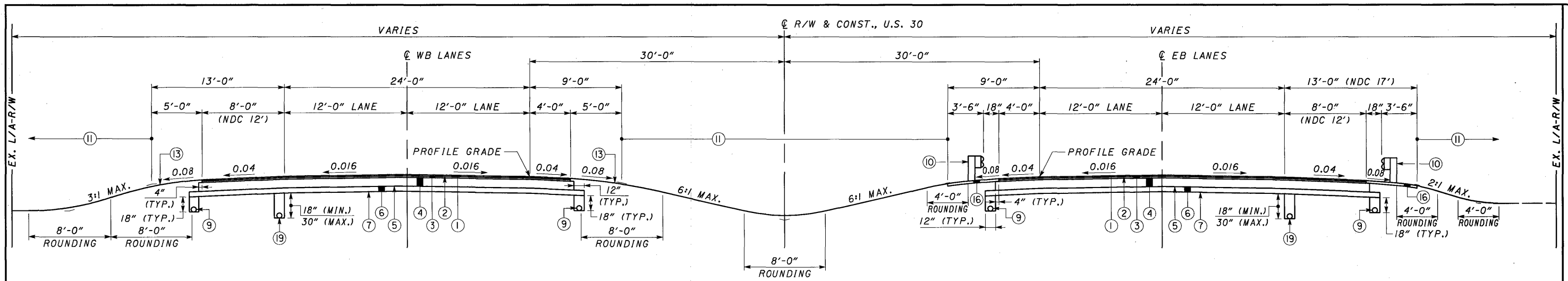
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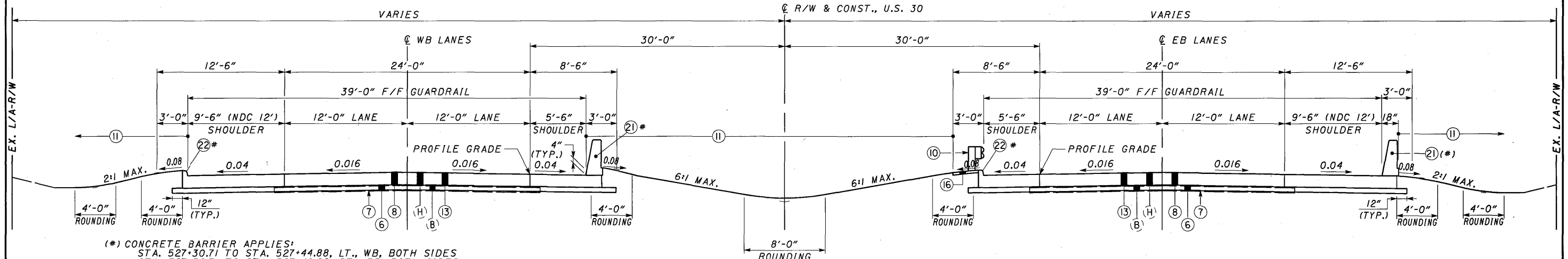
CENTERLINE REFERENCES (NOT TO SCALE)



BENCHMARKS	
BMI:	NO. 5 REBAR WITH RED CAP STA. 44+47.25, 25.33' RT EL. 1136.78
BM2:	NO. 5 REBAR WITH RED CAP STA. 54+05.50, 16.87' RT EL. 1129.28



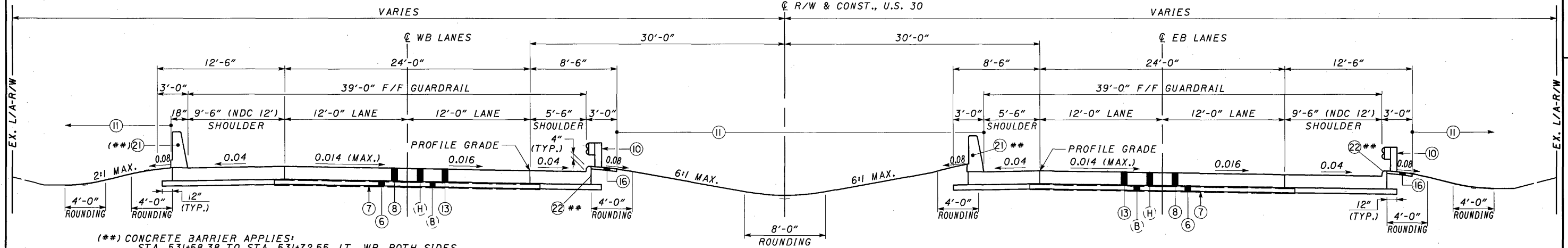
NORMAL SECTION
 EASTBOUND:
 STA. 524+64.00 TO STA. 527+21.88 = 257.88 FT.
 TOTAL = 257.88 FT.
 WESTBOUND:
 STA. 524+64.00 TO STA. 527+19.88 = 255.88 FT.
 TOTAL = 255.88 FT.



(*) CONCRETE BARRIER APPLIES:
 STA. 527+30.71 TO STA. 527+44.88, LT., WB, BOTH SIDES
 STA. 527+32.71 TO STA. 527+46.88, RT., EB, BOTH SIDES

INTEGRAL CURB APPLIES:
 STA. 527+19.88 TO STA. 527+30.71, LT., WB, BOTH SIDES
 STA. 527+21.88 TO STA. 527+32.71, RT., EB BOTH SIDES

APPROACH SLAB NORMAL SECTION
 WESTBOUND:
 STA. 527+19.88 TO STA. 531+58.38 = 438.50 FT.
 DEDUCT FOR STRUCTURE
 STA-30-0670L:
 STA. 527+44.88 TO STA. 531+58.38 = 413.50 FT.
 TOTAL = 25.00 FT.
 EASTBOUND:
 STA. 527+21.88 TO STA. 531+60.38 = 438.50 FT.
 DEDUCT FOR STRUCTURE
 STA-30-0670R:
 STA. 527+46.88 TO STA. 531+60.38 = 413.50 FT.
 TOTAL = 25.00 FT.

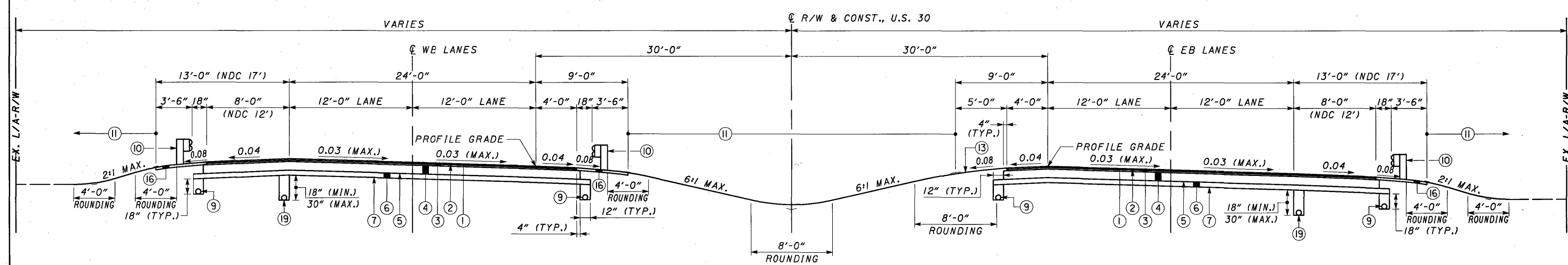


(**) CONCRETE BARRIER APPLIES:
 STA. 531+58.38 TO STA. 531+72.55, LT., WB, BOTH SIDES
 STA. 531+60.38 TO STA. 531+74.55, RT., EB, BOTH SIDES

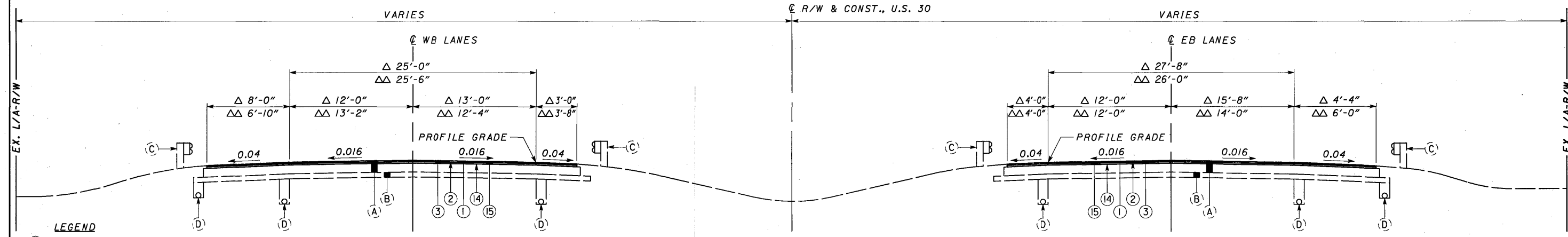
INTEGRAL CURB APPLIES:
 STA. 531+72.55 TO STA. 531+83.38, LT., WB, BOTH SIDES
 STA. 531+74.55 TO STA. 531+85.38, RT., EB BOTH SIDES

APPROACH SLAB SUPERELEVATED SECTION
 EASTBOUND:
 STA. 531+60.38 TO STA. 531+85.38 = 25.00 FT.
 TOTAL = 25.00 FT.
 WESTBOUND:
 STA. 531+58.38 TO STA. 531+83.38 = 25.00 FT.
 TOTAL = 25.00 FT.

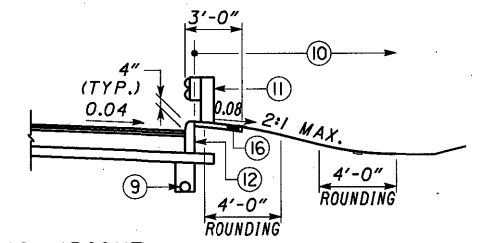
NOTES:
 FOR LEGEND CONTAINING BALLOON REFERENCED ITEMS, SEE SHEET 5.



SUPERELEVATED SECTION
 EASTBOUND:
 STA. 531+85.38 TO STA. 532+75.00 = 89.62 FT.
 TOTAL = 89.62 FT.
 WESTBOUND:
 STA. 531+83.38 TO STA. 532+75.00 = 91.62 FT.
 TOTAL = 91.62 FT.



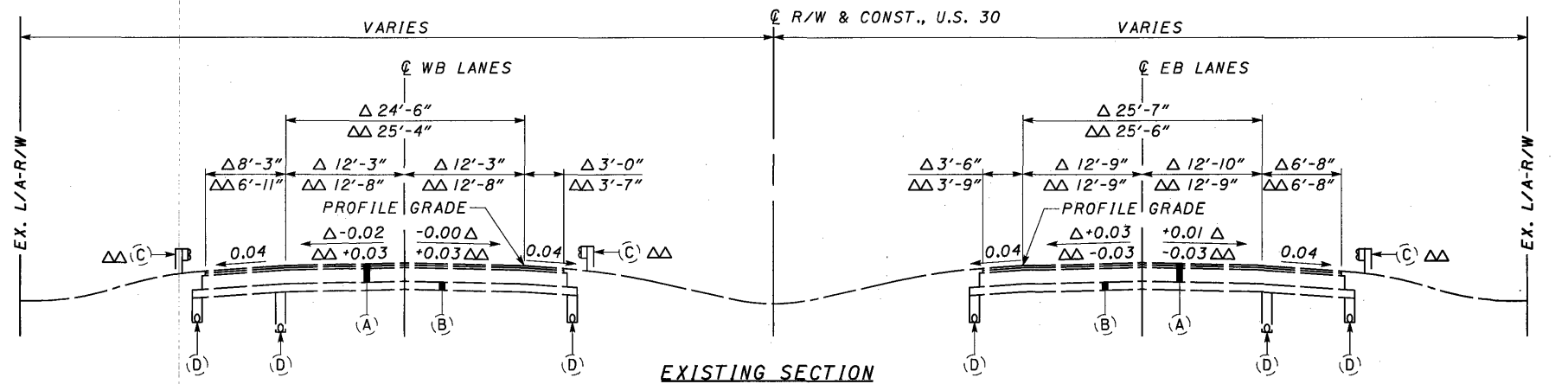
RESURFACING SECTION
 Δ STA. 524+40.00 TO STA. 524+64.00 = 24.00 FT.
 ΔΔ STA. 532+75.00 TO STA. 533+00.00 = 25.00 FT.
 TOTAL = 49.00 FT.



CURB DETAIL (RIGHT)
 STA. 531+85.38 TO STA. 532+43 = 57.62 FT.
 TOTAL = 57.62 FT.

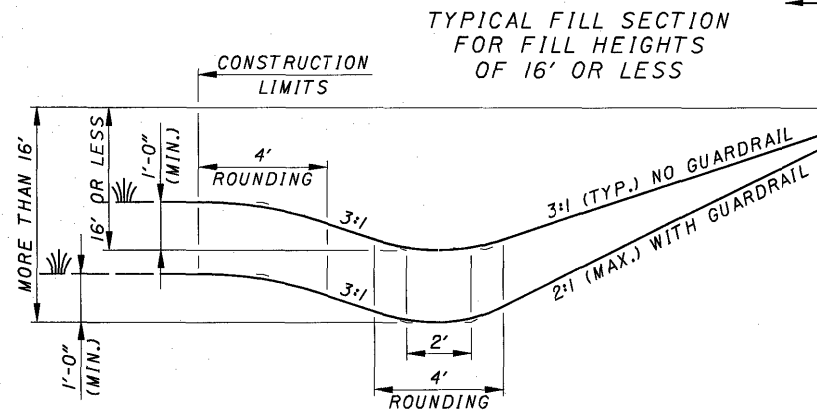
- LEGEND**
- ① ITEM 448 -- ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-28 (T-1 1/2")
 - ② ITEM 407 -- TACK COAT FOR INTERMEDIATE COURSE (APPL. RATE 0.04 GAL./S.Y.)
 - ③ ITEM 448 -- ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-28 (T-1 3/4")
 - ④ ITEM 302 -- ASPHALT CONCRETE BASE (T-10 1/4", PLACED IN 2 LIFTS)
 - ⑤ ITEM 408 -- PRIME COAT (APPL. RATE 0.4 GAL./S.Y.)
 - ⑥ ITEM 304 -- AGGREGATE BASE, AS PER PLAN (T-6")
 - ⑦ ITEM 204 -- SUBGRADE COMPACTION
 - ⑧ ITEM 526 -- REINFORCED CONCRETE APPROACH SLABS (T-15") (***)
 - ⑨ ITEM 605 -- 4" BASE PIPE UNDERDRAINS
 - ⑩ ITEM 606 -- GUARDRAIL, TYPE 5
 - ⑪ ITEM 659 -- SEEDING AND MULCHING
 - ⑫ ITEM 609 -- CURB, TYPE 4C
 - ⑬ ITEM 202 -- APPROACH SLAB REMOVED (***)
 - ⑭ ITEM 407 -- TACK COAT (APPL. RATE 0.075 GAL./S.Y.)
 - ⑮ ITEM 202 -- WEARING COURSE REMOVED (3 1/4" DEPTH)
 - ⑯ ITEM 448 -- ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-28 (T-1 1/4")
 - ⑰ UNDER GUARDRAIL, PG64-22, AS PER PLAN (T-3")
 - ⑱ ITEM 302 -- ASPHALT CONCRETE BASE, PG64-22 (T-8", PLACED IN 2 LIFTS)
 - ⑳ ITEM 605 -- 4" SHALLOW PIPE UNDERDRAINS
 - ㉑ ITEM 202 -- WEARING COURSE REMOVED (3" DEPTH)
 - ㉒ ITEM 511 -- CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN
 - ㉓ ITEM 609 -- CURB, TYPE 4A, COST INCLUDED WITH APPROACH SLABS, PER 526.06 (***)
 - (A) EXISTING ASPHALT CONCRETE PAVEMENT (T-13 1/2"±)
 - (B) EXISTING AGGREGATE BASE (T-6"±)
 - (C) EXISTING GUARDRAIL
 - (D) EXISTING PIPE UNDERDRAINS
 - (E) EX. ASPHALT CONCRETE PAVEMENT (T- 12")
 - (F) EX. AGGREGATE BASE (T-4"±)
 - (G) EX. BITUMINOUS SURFACE TREATED SHOULDER (T-8")
 - (H) EX. APPROACH SLAB (T-16"), 24' WIDTH
 - (I) EX. APPROACH SLAB (T-13" MIN), VARIABLE WIDTH (30'-0" - 32'-7")

NOTE:
 (***) SEE BRIDGE PLANS FOR APPROACH SLAB QUANTITIES.

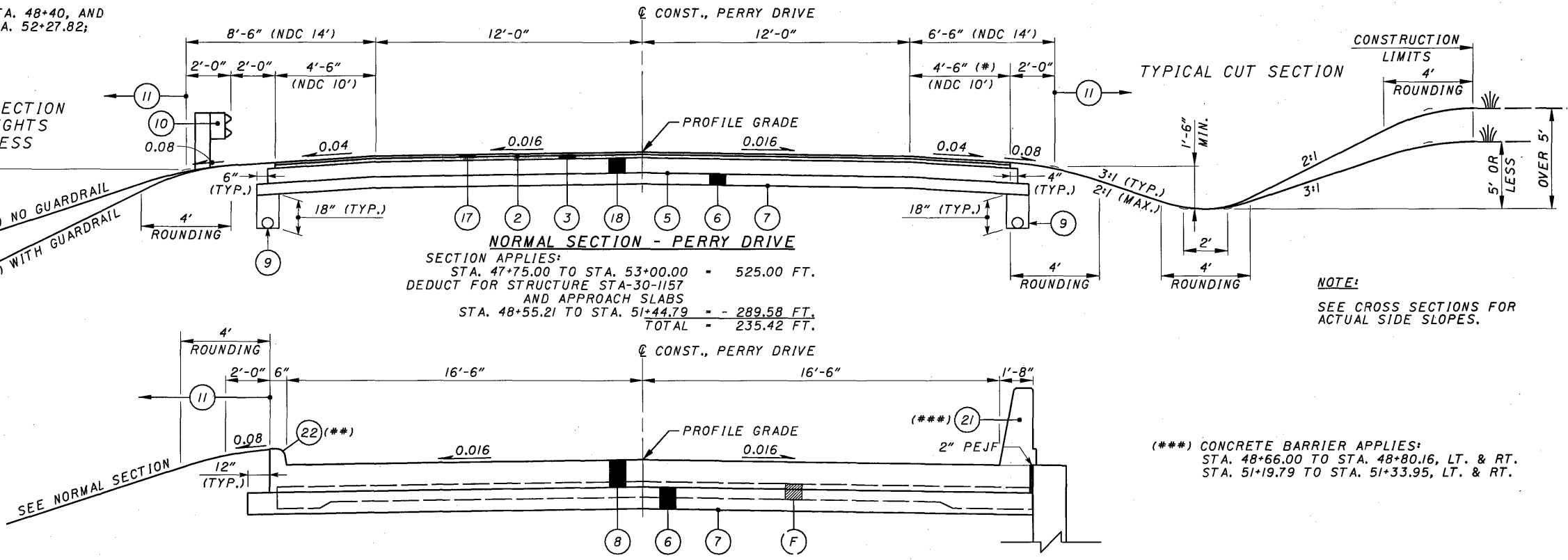


EXISTING SECTION
 Δ STA. 524+64.00
 ΔΔ STA. 532+75.00

(*) TAPERS FROM 7'-0" AT STA. 47+75.00 TO 4'-6" AT STA. 48+40, AND TAPERS FROM 4'-6" AT STA. 51+82.31 TO 10'-0" AT STA. 52+27.82; 10'-0" WIDTH FROM STA. 52+28.37 TO STA. 53+00.00.



(**) CURB APPLIES:
 STA. 48+55.16 TO STA. 48+66.00, LT. & RT.
 STA. 51+33.95 TO STA. 51+44.79, LT. & RT.
 INTEGRAL CURB TO BE INCLUDED WITH COST OF APPROACH SLABS, PER 526.06.



NORMAL SECTION - PERRY DRIVE
 SECTION APPLIES:
 STA. 47+75.00 TO STA. 53+00.00 - 525.00 FT.
 DEDUCT FOR STRUCTURE STA-30-1157 AND APPROACH SLABS
 STA. 48+55.21 TO STA. 51+44.79 - 289.58 FT.
 TOTAL - 235.42 FT.

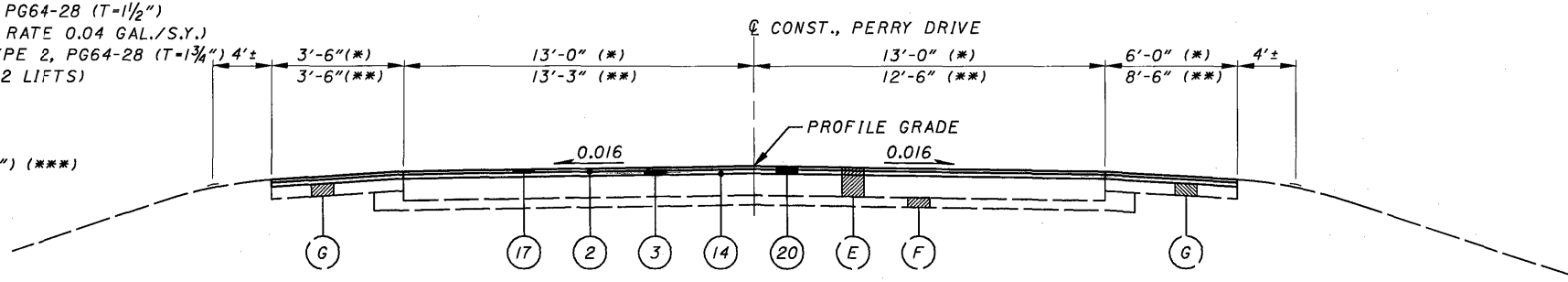
NOTE:
 SEE CROSS SECTIONS FOR ACTUAL SIDE SLOPES.

APPROACH SLAB NORMAL SECTION - PERRY DRIVE
 SECTION APPLIES:
 STA. 48+55.21 TO STA. 51+44.79 - 289.58 FT.
 DEDUCT FOR STRUCTURE STA-30-1157
 STA. 48+80.21 TO STA. 51+19.79 - 239.58 FT.
 TOTAL - 50.00 FT.

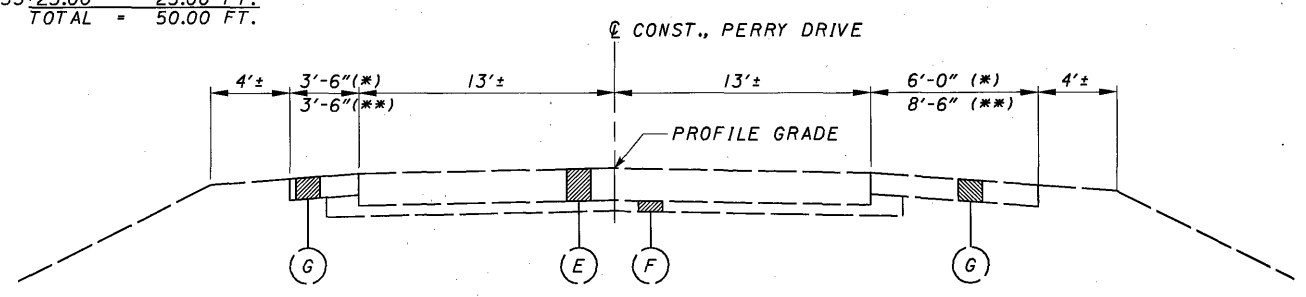
(***) CONCRETE BARRIER APPLIES:
 STA. 48+66.00 TO STA. 48+80.16, LT. & RT.
 STA. 51+19.79 TO STA. 51+33.95, LT. & RT.

- LEGEND**
- ① ITEM 448 -- ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-28 (T-1 1/2")
 - ② ITEM 407 -- TACK COAT FOR INTERMEDIATE COURSE (APPL. RATE 0.04 GAL./S.Y.)
 - ③ ITEM 448 -- ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-28 (T-1 3/4") 4"
 - ④ ITEM 302 -- ASPHALT CONCRETE BASE (T-10 1/4", PLACED IN 2 LIFTS)
 - ⑤ ITEM 408 -- PRIME COAT (APPL. RATE 0.4 GAL./S.Y.)
 - ⑥ ITEM 304 -- AGGREGATE BASE, AS PER PLAN (T-6")
 - ⑦ ITEM 204 -- SUBGRADE COMPACTION
 - ⑧ ITEM 526 -- REINFORCED CONCRETE APPROACH SLABS (T-15") (***)
 - ⑨ ITEM 605 -- 4" BASE PIPE UNDERDRAINS
 - ⑩ ITEM 606 -- GUARDRAIL, TYPE 5
 - ⑪ ITEM 659 -- SEEDING AND MULCHING
 - ⑫ ITEM 609 -- CURB, TYPE 4C
 - ⑬ ITEM 202 -- APPROACH SLAB REMOVED (***)
 - ⑭ ITEM 407 -- TACK COAT (APPL. RATE 0.075 GAL./S.Y.)
 - ⑮ ITEM 202 -- WEARING COURSE REMOVED (3 1/4" DEPTH)
 - ⑯ ITEM 448 -- ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER GUARDRAIL, PG64-22, AS PER PLAN (T-3")
 - ⑰ ITEM 448 -- ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-28 (T-1 1/4")
 - ⑱ ITEM 302 -- ASPHALT CONCRETE BASE, PG64-22 (T-8", PLACED IN 2 LIFTS)
 - ⑲ ITEM 605 -- 4" SHALLOW PIPE UNDERDRAINS
 - ⑳ ITEM 202 -- WEARING COURSE REMOVED (3" DEPTH)
 - ㉑ ITEM 511 -- CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN
 - ㉒ ITEM 609 -- CURB, TYPE 4A, COST INCLUDED WITH APPROACH SLABS, PER 526.06 (***)
 - (A) EXISTING ASPHALT CONCRETE PAVEMENT (T-13 1/2"±)
 - (B) EXISTING AGGREGATE BASE (T-6"±)
 - (C) EXISTING GUARDRAIL
 - (D) EXISTING PIPE UNDERDRAINS
 - (E) EX. ASPHALT CONCRETE PAVEMENT (T- 12")
 - (F) EX. AGGREGATE BASE (T-4"±)
 - (G) EX. BITUMINOUS SURFACE TREATED SHOULDER (T-8")
 - (H) EX. APPROACH SLAB (T-16"), 24' WIDTH
 - (I) EX. APPROACH SLAB (T-13" MIN), VARIABLE WIDTH (30'-0" - 32'-7")

NOTE:
 (***) SEE BRIDGE PLANS FOR APPROACH SLAB QUANTITIES.



RESURFACING SECTION - PERRY DRIVE
 SECTION APPLIES:
 (*) STA. 47+50.00 TO STA. 47+75.00 - 25.00 FT.
 (**) STA. 53+00.00 TO STA. 53+25.00 - 25.00 FT.
 TOTAL - 50.00 FT.



EXISTING TYPICAL SECTION - PERRY DRIVE
 SECTION APPLIES:
 (*) STA. 47+75.00
 (**) STA. 53+00.00

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AMERICAN ELECTRIC POWER (TRANSMISSION) (CLEAR)
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230-6605
ATTN: TINA HAIRSTON
(614) 552-1801
(614) 552-1818 (FAX)

AMERICAN ELECTRIC POWER (DISTRIBUTION)
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230
ATTN: RICK ECKLE
(614) 883-6829

AQUA OHIO (CLEAR)
870 3RD STREET
MASSILLON, OHIO 44647
ATTN: DON SNYDER
(330) 833-4156 X205

CANTON WATER DEPARTMENT
ENGINEERING DEPARTMENT
P.O. BOX 7904
CANTON, OHIO 44705
ATTN: LEWIS MILLER
(330) 489-3310
(330) 489-3073 (FAX)

CITY OF MASSILLON
ENGINEERING DEPARTMENT
151 LINCOLN WAY EAST
MASSILLON OHIO 44646
ATTN: GREG MC CUE
(330) 830-1722

DOMINION EAST OHIO
7015 FREEDOM AVE, N.W.
NORTH CANTON, OHIO 44720
ATTN: GEORGE TURNER, JR.
(330) 266-2041

GREAT LAKES ENERGY PARTNERS, L.L.C.
P.O. BOX 550
HARTVILLE, OHIO 44632-0550
ATTN: MARK BELZER
(330) 877-6747
(330) 877-6129 (FAX)

MASSILLON CABLE
P.O. BOX 814
MASSILLON, OHIO 44648
ATTN: JEFF CAMPBELL
(330) 833-4134
(330) 833-7522 (FAX)

NORTHERN INDUSTRIAL ENERGY DEVELOPMENT, INC.
5900 MAYFAIR ROAD NW
NORTH CANTON, OHIO 44720
ATTN: ROBERT WENTZEL
(330) 498-9130
(888) 863-0032
(330) 498-9137 (FAX)

SBC
50 W. BOWERY STREET
4TH FLOOR
AKRON, OHIO 44308
ATTN: SABRENA LAMPLEY-TALBERT
(330) 384-8057
(330) 384-8879 (FAX)

STARK COUNTY METROPOLITAN SEWER DISTRICT
1701 MAHONING ROAD, NE
P.O. BOX 7906
CANTON, OHIO 44705-7906
ATTN: JIM JONES
(330) 451-2314
(330) 453-9044 (FAX)

TIME WARENER CABLE
1655 BRITAIN ROAD
AKRON, OHIO 44310
ATTN: CHARLIE TONEY
(330) 630-7950
(330) 633-2342

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM. (NAV 1988)

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	1	0	1
30"	0	0	0
48"	0	0	0
60"	0	0	0

IN ADDITION, THE CONTRACTOR SHALL REMOVE ALL VEGETATION WITHIN 15 FEET OF THE STRUCTURES.

PAVING UNDER GUARDRAIL

THIS OPERATION SHALL INCLUDE PREPARATION OF THE GRADED SHOULDER USING 209, LINEAR GRADING, AND PAVING UNDER THE GUARDRAIL USING 448 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, PG 64-22, UNDER GUARDRAIL, AS PER PLAN.

ITEM 209, LINEAR GRADING, SHALL CONSIST OF EXCAVATING TOPSOIL, PLACING GRANULAR MATERIAL AND APPLYING HERBICIDE AS SPECIFIED IN THE PLANS AND IN ACCORDANCE WITH THE FOLLOWING:

ALL COLLECTED DEBRIS AND TOPSOIL, INCLUDING RHIZOMES, ROOTS AND OTHER VEGETATIVE PLANT MATERIAL SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED IN 105.17.

THE REMOVED MATERIAL SHALL BE REPLACED WITH COMPACTABLE GRANULAR MATERIAL CONFORMING TO 703.16 PLACED TO GRADE AS DETAILED ON THE TYPICAL SECTION OR AS APPROVED BY THE ENGINEER.

HERBICIDE SHALL BE EPA APPROVED FOR PAVING UNDER GUARDRAIL. IT SHALL BE APPLIED TO THE PREPARED AREA AFTER FINAL LEVELING AND GRADING HAS BEEN COMPLETED. THE APPLICATION SHALL BE JUST PRIOR TO PAVING AND SHALL STRICTLY ADHERE TO THE MANUFACTURER'S INSTRUCTIONS.

EACH SUCCESSFUL BIDDER MUST BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL APPLICATOR AND ALL PERSONS INVOLVED IN THE ACTUAL SPRAYING SHALL BE LICENSED AS COMMERCIAL OPERATORS IN THE APPROPRIATE SPRAY CATEGORY.

HERBICIDE LABEL, MATERIAL SAFETY DATA SHEET AND COPY OF APPLICATORS LICENSES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION PRIOR TO COMMENCING WORK.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 209, LINEAR GRADING, AS PER PLAN.

PAVING UNDER GUARDRAIL SHALL CONSIST OF PLACING ITEM 448 TO THE DEPTH SPECIFIED USING ONE OF THE FOLLOWING, METHODS:

METHOD A: 1) SET GUARDRAIL POSTS

2) PLACE ITEM 448

METHOD B: 1) PLACE ITEM 448

2) BORE ASPHALT AT POST LOCATIONS (MAY BE OMITTED IF STEEL POSTS ARE USED)

3) SET GUARDRAIL POSTS

4) PATCH AROUND POSTS. THE MATERIALS USED FOR PATCHING SHALL BE AN ASPHALT CONCRETE APPROVED BY THE ENGINEER. PATCHED AREAS SHALL BE COMPACTED USING EITHER HAND OR MECHANICAL METHODS. FINISHED SURFACES SHALL BE SMOOTH AND SLOPED TO DRAIN AWAY FROM THE POSTS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE, WITH THE EXCEPTION OF SETTING GUARDRAIL POSTS, SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 448, ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE I, PG 64-22, UNDER GUARDRAIL, AS PER PLAN.

ITEM 606 - ANCHOR ASSEMBLY, TYPE B-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS.

1) THE SRT-350, GUARDRAIL END TERMINAL AS MANUFACTURED BY TRINITY INDUSTRY, 1170 NORTH STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE SRT-350 SYSTEM IS CONSIDERED TO BE 37'-6", INCLUSIVE OF THREE 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
SS444	SLOTTED RAIL TERMINAL POST LAYOUT AND ERECTION DETAILS SRT-350 (12.5, 8 POST)	7/12/99 Rev. 1	8/27/99
SS425M	SLOTTED RAIL TERMINAL SRT-350 POST LAYOUT AND ERECTION DETAILS (12.5, 9 POST)	6/21/97 Rev. 1	3/6/98

2) THE FLEAT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224 (TELEPHONE: 330-346-0721).

THE LENGTH OF THE FLEAT-350 IS CONSIDERED TO BE 37'-6", INCLUSIVE OF THREE 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. NO.	DRAWING NAME	DWG./REV. DATE	ODOT APPROVAL DATE
FLT-M	FLARED ENERGY ABSORBING TERMINAL (FLEAT-350) ASSEMBLY	4/16/98	7/31/98

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27 3/4 INCHES FROM THE EDGE OF THE SHOULDER.

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

THE FACE OF THE TYPE B-98 IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19: APPROXIMATELY 36" W X 12" H FOR THE SRT-350 AND 14" W X 20" H FOR THE FLEAT.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE B-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOTSEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4" BY 4" SQUARE OR 4 1/2" DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO AASHTO M 181.

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

CALCULATED
RJS
CHECKED
SJS

GENERAL NOTES

STA-30-(6.70)(11.57)

7
127

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT, SINGLE.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

603, 6" CONDUIT, TYPE E	50 FT.
603, 6" CONDUIT, TYPE F	50 FT.
603, 12" CONDUIT, TYPE B	60 FT.

WATERWAY PERMIT DETERMINATION (404/401)

ALL PROJECTS INVOLVING JURISDICTIONAL WATERS OF THE UNITED STATES (STREAMS, RIVERS, NON-ISOLATED WETLANDS) AND/OR ISOLATED WETLANDS ARE SUBJECT TO REGULATION UNDER SECTIONS 404 AND 401 OF THE CLEAN WATER ACT, AND POSSIBLY OHIO EPA ISOLATED WETLAND LAW. THE OHIO DEPARTMENT OF TRANSPORTATION - OFFICE OF ENVIRONMENTAL SERVICES (OES) AND/OR THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE) HAS DETERMINED THAT THE PROJECT MEETS THE CRITERIA OF NATIONWIDE PERMIT (NWP) 3 - MAINTENANCE AND NWP 33 - TEMPORARY CONSTRUCTION ACCESS AND DEWATERING. SHOULD THE VOLUME AND/OR SURFACE AREA OF THE

TEMPORARY CONSTRUCTION ACCESS FILL BELOW THE ORDINARY HIGH WATER MARK (OHWM) PREVIOUSLY VERIFIED BY THE USACE FOR THE PROJECT NEED TO BE INCREASED, THE CONTRACTOR SHALL COORDINATE SUCH ACTIVITIES, INCLUDING THE PRE-CONSTRUCTION NOTIFICATION (PCN), THROUGH THE ODOT DISTRICT 4 ENVIRONMENTAL SECTION AND ODOT OES AND ALLOW 60 DAYS MINIMUM FOR PROCESSING WITH THE USACE. THE CONTRACTOR SHALL NOT COORDINATE THESE ACTIVITIES DIRECTLY WITH THE USACE. THE CONTRACTOR SHALL NOT UTILIZE TEMPORARY FILLS BELOW THE OHWM UNTIL SUCH ACTIVITY IS AUTHORIZED BY THE USACE. SHOULD A PCN BE REQUIRED, THE PCN SHALL INCLUDE PERTINENT INFORMATION (I.E. VOLUME AND SURFACE AREA OF TEMPORARY FILLS) AND DRAWINGS (PLAN AND PROFILE VIEW) OF TEMPORARY FILLS BELOW OHWM. ONLY CLEAN, NON-ERODIBLE MATERIALS SHALL BE USED FOR TEMPORARY CONSTRUCTION ACCESS FILLS. ANY TEMPORARY FILLS BELOW OHWM SHALL BE REMOVED FOLLOWING COMPLETION OF THE AUTHORIZED ACTIVITY AND THE AREA OF STREAM WHERE TEMPORARY FILL WAS LOCATED SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION. PLEASE NOTE THAT FORDING OF WATERWAYS IS NOT ALLOWED PER ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS 2005, ITEM 207.03.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

653, TOP SOIL FURNISHED AND PLACED	150 C.Y.
659, SEEDING AND MULCHING	3886 S.Y.
659, REPAIR SEEDING AND MULCHING	201 S.Y.
659, INTER-SEEDING	201 S.Y.
659, COMMERCIAL FERTILIZER	0.56 TON
659, LIME	0.83 ACRE
659, WATER	22 M. GAL.
659, MOWING	6 M. S.F.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS. NOTE THAT TOP SOIL SHALL ONLY BE PLACED AT THE STA-30-11.57 SITE. MOWING SHALL ONLY BE PERFORMED AT THE STA-30-6.70 SITE.

SODDING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SODDED AREAS.

659, COMMERCIAL FERTILIZER	0.01 TON
659, LIME	0.01 ACRE
659, WATER	1 M. GAL.

ITEM 203 - EMBANKMENT, AS PER PLAN

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6-INCH LIFTS FOR THE CONSTRUCTION OF THE BRIDGE APPROACH EMBANKMENT.

WETLANDS AVOIDANCE

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR IMPACT THE EXISTING WETLANDS AS INDICATED ON THE PLANS.

STA. 528+70 LT TO STA. 533+70 LT
STA. 531+20 RT TO STA. 534+30 RT

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS WITHIN THESE WETLAND AREAS. TO PROTECT AND DELINEATE THE BOUNDARY OF THESE EXISTING WETLANDS, AS APPROPRIATE, FILTER FABRIC FENCE AND TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF THE WETLANDS WITHIN AND ADJACENT TO THE LIMITED ACCESS RIGHT-OF-WAY, MAINTAINING A MINIMUM OF (1) FOOT BUFFER BETWEEN THE FENCE AND THE WETLAND BOUNDARY, OR AT THE PROPOSED CONSTRUCTION LIMITS WITHIN THE WETLANDS AREA, AS APPLICABLE. THIS FILTER FABRIC FENCE AND TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES WITHIN THESE LIMITS AND ADJACENT AREA, INCLUDING ANY NECESSARY CLEARING AND GRUBBING ACTIVITIES,

AND MAINTAINED BY THE CONTRACTOR THROUGHOUT PROJECT CONSTRUCTION. PAYMENT SHALL BE INCLUDED WITH ITEM 832-EROSION CONTROL.

ENDANGERED SPECIES HABITAT

THIS PROJECT IS WITHIN THE RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS) AND MAY IMPACT SUMMER ROOSTING HABITAT FOR THIS SPECIES. THE SUMMER ROOSTING HABITAT FOR THE INDIANA BAT CONSISTS OF LIVING OR DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES OR CAVITIES THEREFORE, ANY UNAVOIDABLE CUTTING OF SUCH TREES WILL BE PERFORMED ONLY AFTER SEPTEMBER 15 AND BEFORE APRIL 15.

THE UNDERSIDE OF BRIDGES SHALL BE CHECKED FOR THE PRESENCE OF BATS PRIOR TO CONSTRUCTION BY THE ENGINEER. IF BATS ARE FOUND, THE DISTRICT 4 ENVIRONMENTAL SECTION SHALL BE CONTACTED FOR FURTHER DIRECTION.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

ITEM 304 - AGGREGATE BASE, AS PER PLAN

FURNISH MATERIALS PER CMS 703.17 EXCEPT THAT MATERIAL SHALL BE LIMESTONE.

ITEM 623 CONSTRUCTION LAYOUT STAKES (BRIDGE CLEARANCES)

AFTER ALL NEW CONSTRUCTION HAS BEEN COMPLETED, A REGISTERED SURVEYOR SHALL TAKE VERTICAL CLEARANCE MEASUREMENTS AT LOCATIONS INDICATED ON THE APPROVED ODOT FORM (AVAILABLE IN THE DISTRICT STRUCTURES AND PAVEMENT OFFICE) AND/OR ALONG RAILROAD TRACKS AS APPLICABLE. THE FINAL MEASUREMENTS SHALL BE RECORDED ON THE FORM AND SUBMITTED TO THE PROJECT ENGINEER AND THE DISTRICT STRUCTURES AND PAVEMENT ENGINEER. THE RECORD SHALL BEAR THE SEAL OF THE LICENSED SURVEYOR WHO HAS TAKEN THE MEASUREMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 623 CONSTRUCTION LAYOUT STAKES.

CONSTRUCTION NOISE - PERRY DRIVE ONLY

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8 P.M. AND 7 A.M. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

MECHANICAL EQUIPMENT OPERATION AT STREAM CHANNEL

THE MECHANICAL EQUIPMENT USED TO EXECUTE THE WORK AUTHORIZED HEREIN SHALL BE OPERATED IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

BEST MANAGEMENT PRACTICES

WATER COLUMN AND SEDIMENTATION IMPACTS SHALL BE KEPT TO A MINIMUM THROUGH THE USE OF BEST MANAGEMENT PRACTICES FOR SOIL EROSION AND SEDIMENTATION CONTROL

MAINTAINING TRAFFIC

MAINTAINING TRAFFIC AT ALL TIMES

A MINIMUM OF TWO LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON US 30, EXCEPT AT THE TIMES AND LOCATIONS SPECIFIED IN THESE PLANS DURING THE REHABILITATION OF STA-30-0670 L/R BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, ITEM 615 ROADS FOR MAINTAINING TRAFFIC AND TEMPORARY SURFACES USING ITEMS 410 AND 614.

DETOUR NOTIFICATION - PERRY DRIVE

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148), AND COUNTY/CITY, EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

DETOUR DURATION - PERRY DRIVE

THE MAXIMUM LENGTH OF TIME FOR THE DETOUR ROUTE TO BE IN EFFECT SHALL BE 90 CONSECUTIVE DAYS. CONSTRUCTION WORK MAY BE PERFORMED BEFORE AND AFTER THE DETOUR LIMITATION DATES, BUT THERE SHALL BE NO RESTRICTIONS (LANE WIDTH REDUCTIONS, TEMPORARY ROADWAYS, OR ONE WAY TRAFFIC) TO THROUGH OR LOCAL TRAFFIC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE CONSTRUCTION WORK WITHIN THE DETOUR LIMITATION TIME. THE FAILURE OF THE CONTRACTOR TO MEET THE DETOUR LIMITATION DATES WILL CAUSE SEPARATE LIQUIDATED DAMAGES, AS PER 108.07 OF THE CMS, OF OVERRUN DETOUR LIMITATION TIME TO BE ASSESSED. THE CONTRACTOR WILL COMPLY WITH ALL PROVISIONS OF 108.07 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

DETOUR SIGNING SHALL BE PAID FOR UNDER THE FOLLOWING:

ITEM 614, DETOUR SIGNING - LUMP SUM

WINTER TRAFFIC LIMITATIONS

ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND APRIL 1. NOVEMBER 14 SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE AND LIQUIDATED DAMAGES, AS SPECIFIED IN 108.07, SHALL BE ASSESSED FOR EACH CALENDAR DAY THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. THE CONTRACTOR MAY CLOSE LANES, PRIOR TO APRIL 1, WITH WRITTEN APPROVAL FROM THE DISTRICT CONSTRUCTION ENGINEER.

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.

NOTICE OF CLOSURE SIGN

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE (1) WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD 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 THE POINT OF CLOSURE.

PERRY DR WILL BE
CLOSED XX/XX/200X
FOR 90 DAYS
OHIO DEPT. OF TRANSPORTATION

W20-H14-60
(60"x36")

ESTIMATED QUANTITIES

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

- ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B 50 CU. YD.
- ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 50 CU. YD.
- ITEM 616, WATER - 5 M. GAL.

ITEM 614, MAINTAINING TRAFFIC

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 SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH WORKING TOP-MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

- * FOR LANE CLOSURES ON US 30 DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.
- * DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE OF PERRY DRIVE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

LAW ENFORCEMENT OFFICERS (LEOS) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEOS ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

OHIO STATE HIGHWAY PATROL
CANTON PATROL POST
4710 SHUFFEL ROAD
NORTH CANTON, OH 44720
PHONE: (330) 433-6200
FAX: (330) 433-6230

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR 120 HOURS

DUST CONTROL

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

ITEM 616, WATER - 5 M. GAL.

ITEM 622, PORTABLE CONCRETE BARRIER, 32", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, MAINTAINING AND SUBSEQUENTLY REMOVING A 32" PORTABLE CONCRETE BARRIER WITH AN 18" HIGH MINIMUM HEIGHT GLARE SCREEN AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS SEE SCD RM-4.1.

THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING SYSTEMS OR AN APPROVED EQUAL:

CARSONITE MODULAR GLARE SCREEN
CARSONITE INTERNATIONAL
605 BOB GIFFORD BLVD.
EARLY BRANCH, SOUTH CAROLINA 29916
TELEPHONE: (702) 883-5104 OR (800)-648-7974

TRINITY GLAREFOIL
TRINITY INDUSTRY
1170 N. STATE ST.
GIRARD, OHIO 44420
TELEPHONE: (330) 545-4373

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32" PORTABLE CONCRETE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE CONCRETE BARRIER, 32", AS PER PLAN.

ITEM 614, WORK ZONE SPEED LIMIT SIGN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, COVER DURING SUSPENSION OF WORK AND SUBSEQUENTLY REMOVE WORK ZONE SPEED LIMIT (R2-1) (55 MPH SPEED LIMIT) SIGNS AND SUPPORTS WITHIN THE WORK LIMITS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

THE CONTRACTOR SHALL COVER OR REMOVE ANY EXISTING SPEED LIMIT SIGNS WITHIN THE REDUCED SPEED ZONE. THESE SIGNS SHALL BE RESTORED DURING SUSPENSION OR TERMINATION OF THE REDUCED SPEED LIMIT. THE EXPENSE OF COVERING OR REMOVAL AND RESTORATION OF EXISTING SPEED LIMIT OR MINIMUM SPEED LIMIT SIGNS SHALL BE INCLUDED IN THE PAY ITEM FOR WORK ZONE SPEED LIMIT SIGNS.

THE WORK ZONE SPEED LIMIT SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR (4) HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR (4) HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR THIRTY (30) OR MORE DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

CONSTRUCTION AND MATERIALS SPECIFICATIONS, ITEM 614, PARAGRAPH 614.02(B) INDICATES THAT THE TWO (2) 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, SPEED REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE SPEED REDUCTION IN THE OPPOSITE DIRECTION. SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION, IN SUCH CASE, IS APPROPRIATE ONLY IF CONDITIONS ARE EXPECTED TO HAVE AN IMPACT ON THE DIRECTIONAL TRAFFIC FLOW, AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL ERECT A WORK ZONE SPEED LIMIT SIGN IN ADVANCE OF ANY LANE RESTRICTION EXPECTED TO LAST AT LEAST 30 CONSECUTIVE CALENDAR DAYS, OR AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE MOUNTED ON BOTH SIDES OF A DIRECTIONAL ROADWAY OF DIVIDED HIGHWAYS. THE FIRST WORK ZONE SPEED LIMIT SIGN SHALL BE PLACED 500 FEET IN ADVANCE OF THE LANE REDUCTION OR SHIFT TAPER, OR AT A POINT WHEREVER CONSTRUCTION BEGINS, WHICHEVER COMES FIRST. THE SIGN SHALL BE REPEATED, ON THE SIDE NEAREST TRAFFIC, EVERY 1 MILE FOR 55 MPH ZONES.

REDUCED SPEED AHEAD SIGNS SHALL BE ERECTED IN ADVANCE OF THE SPEED REDUCTION, APPROXIMATELY 1300 FEET, ON MULTI-LANE HIGHWAYS.

CALCULATED
SMM
CHECKED
JEP

MAINTENANCE OF TRAFFIC GENERAL NOTES

STA-30-(6.70)(11.57)

A SIGN(S) TO INDICATE THE RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE ERECTED AT THE END OF ANY REDUCED SPEED ZONE. R2-1 (SPEED LIMIT) AND R2-H2a SIGNS SHALL BE USED ON DIVIDED ROADWAYS. WHEN USED, THE R2-1 AND R2-H2a SIGNS SHALL BE MOUNTED SIDE-BY-SIDE ON SEPARATE SUPPORTS. THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

WORK ZONE SPEED LIMIT SIGNS SHALL BE MOUNTED ON TWO (2) ITEM 630, GROUND MOUNTED SUPPORTS, NO. 3 POSTS.

WORK ZONE SPEED LIMIT SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGNS AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION WITHIN THE PROJECT, DUE TO CHANGES IN THE SPEED ZONE DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE IN PLACE, WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVING THE SIGNS AND SUPPORTS. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, WORK ZONE SPEED LIMIT SIGN - 12 EACH

DESIGNATED DETOUR ROUTE

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THE DETOUR ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED, AND TRAFFIC IS RETURNED TO ITS NORMAL PATTERN, THE DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER.

ITEM 614, BARRIER REFLECTORS AND OBJECT MARKERS

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE FIFTY (50) FEET. AN ESTIMATED QUANTITY OF 50 EACH OF ITEM 614 BARRIER REFLECTORS, TYPE B AND 50 EACH OF ITEM 614 OBJECT MARKER, ONE-WAY HAVE BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

WORK ZONE INCREASED PENALTIES SIGN (R11-H5a)

R11-H5a-48 SIGNS SHALL BE FURNISHED, ERECTED AND MAINTAINED IN GOOD CONDITION, AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR (4) HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING, DUE TO TEMPORARY LANE RESTORATIONS, SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER WORK SHUT-DOWNS.

THE SIGNS SHALL BE DUAL MOUNTED. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-1) SIGN AND THE NEXT SIGN IN THE SEQUENCE.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF CMS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN - 12 EACH

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC - 425.5 CU. YD.
EMBANKMENT FOR MAINTAINING TRAFFIC - 2297.2 CU. YD.

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.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ONE OF THE FOLLOWING IMPACT ATTENUATORS:

1. THE QUADGUARD CZ, (24 INCHES WIDE BY SIX-BAY) WORK ZONE IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., 35 EAST WACKER DRIVE, CHICAGO, IL 60601 (TELEPHONE: (312) 467-6750).

THE LENGTH OF THE SIX-BAY QUADGUARD CZ IS 20'-9". INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DWG. NAME	DWG./REV. DATE	ODOT APPROVED DATE
QSCZVCR-T4	QUADGUARD CZ SYSTEM FOR CONSTRUCTION ZONES	5/13/99 REF J	8/27/99
35-40-10	QUADGUARD SYSTEM CONCRETE PAD, CB, QG	11/19/97 REV D	8/27/99
35-40-16	QUADGUARD SYSTEM BACKUP ASSEMBLY, CZ, QG	7/30/99 REV F	8/27/99
354051Z	QUADGUARD CZ SYSTEM NOSE ASSEMBLY, CB, QG, 24, 30, 36	5/17/99	8/27/99
35-40-18	TRANSITION ASSEMBLY, 40' OFFSET, QG	6/25/99 REV F	8/27/99
35400260	QUADGUARD SYSTEM PCMB ANCHOR ASSEMBLY	11/19/97 REV C	8/27/99

2. THE TRACC (TRINITY ATTENUATING CRASH CUSHION) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-7373). THE TRACC IS 21'-0" LONG AND 2'-7" WIDE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DWG. NAME	DWG./REV. DATE	ODOT APPROVED DATE
SS450	CRASH-CUSHION ATTENUATING TERMINAL PLAN, ELEVATION & SECTIONS	3/12/99 REV 1	8/27/99
SS455	TRACC TRANSITION TO W-BEAM MEDIAN BARRIER PLAN, ELEVATION, & SECTIONS	2/18/99	8/27/99
SS461	TRACC TRANSITION TO CONCRETE SAFETY SHAPE BARRIER PLAN, & SECTIONS	6/30/99 REV 1	8/27/99
SS462	TRACC TRANSITION TO CONCRETE BARRIER SINGLE SLOPE PLAN, ELEVATION, & SECTIONS	6/30/99	8/27/99

3. THE BARRIER SYSTEMS, INC. TAU-II IMPACT ATTENUATOR, DISTRIBUTED BY ROAD SYSTEMS, INC., SALES SUPPORT, 2183 ELM TRACE, AUSTINTOWN, OH 44515, (TELEPHONE: (330) 799-9291).

THE TAU-II FOR THIS NOTE IS A PARALLEL 8-BAY UNIT 24' LONG AND 35' WIDE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

DWG. #	DWG. NAME	DWG./REV. DATE	ODOT APPROVED DATE
A040416	UNIVERSAL TAU-II PARTS LIST	4/22/04	10/16/04
A040420	UNIVERSAL TAU-II FOUNDATION, FLUSH MOUNT BACKSTOP	4/28/04	10/16/04
A040105	UNIVERSAL TAU-II FOUNDATION, PCB BACKSTOP (REFERRED ON A04020)	1/07/04	10/16/04
B040239	APPLICATION, FLUSH MOUNT BACKSTOP (TYPICAL FOR PARALLEL 60 MPH UNIT)	4/21/04	10/16/04

4. THE GREAT CZ IMPACT ATTENUATOR MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC. THIS ATTENUATOR MAY BE USED UNTIL JANUARY 1, 2007 IF THE ITEM WAS PURCHASED BEFORE OCTOBER 1, 1998 AND IS IN THE CONTRACTOR'S INVENTORY.

THE CONTRACTOR SHALL PROVIDE A REPLACEMENT UNIT WHEN AN IMPACT IS SEVERE ENOUGH TO REQUIRE COMPLETE REPLACEMENT OF THE ATTENUATOR. THE CONTRACTOR SHALL HAVE A SPARE PARTS PACKAGE AVAILABLE ON THE PROJECT SITE AT ALL TIMES WHEN AN ATTENUATOR IS IN PLACE. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE COMPLETE SPARE PARTS PACKAGE FOR EVERY ONE TO SIX UNITS INSTALLED ON THE PROJECT SITE. FOR EXAMPLE, FIVE INSTALLED UNITS REQUIRE ONE SPARE PARTS PACKAGE AND SEVEN INSTALLED UNITS REQUIRE TWO SPARE PARTS PACKAGES.

ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR AN OVERLAPPING PAIR OF CROSSOVERS ON A TWO-LANE, TWO-WAY OPERATION. THE SYSTEM SHALL BE AS SHOWN ON SCD MT-100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 724 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.04, ARE WAIVED, AND USED MATERIALS, IN GOOD CONDITION, ARE ACCEPTABLE.

POLES MAY BE LESS THAN 30 FT FROM THE EDGE OF PAVEMENT, WHEN BEHIND GUARDRAIL. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OR WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM - 2 EACH

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN, ON SITE, FOR THE DURATION OF THE PROJECT. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS MAINTAINED BY THE DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THIS LIST IS AVAILABLE ON THE ODOT WEBSITE AT <http://www.dot.state.oh.us/testlab/applists/misc/pcms.htm>. THE LIST CURRENTLY CONTAINS CLASS I, II, AND III UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 1250 FT, 850 FT, AND 650 FT, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMS TRAILERS SHOULD BE DELINEATED ON A PERMANENT BASIS BY AFFIXING RETROREFLECTIVE MATERIAL, IN A CONTINUOUS LINE ON THE FACE OF THE TRAILER AS SEEN BY ONCOMING ROAD USERS.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE TO BE EAST AND WEST OF THE WORK ZONE ON STA-30-0670 ON US 30.. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED, FACING AWAY FROM TRAFFIC, AND SHALL DISPLAY ONE OR MORE HIGH-INTENSITY YELLOW REFLECTIVE SHEETING SURFACES, OF 9-INCH BY 15-INCH MINIMUM SIZE, FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST ONCE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK, AND OPEN ALL TRAFFIC LANES, AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE, THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
12 SIGN MONTHS

ITEM 614, WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN

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

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

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

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 TO 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 CMS 614, WITH RAISED PAVEMENT MARKERS CONFORMING WITH CMS 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

AN ESTIMATED QUANTITY OF 696 EACH OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY. 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 CMS 202.10.

WORK ZONE RAISED PAVEMENT MARKERS ON CONCRETE SURFACES

RAISED PAVEMENT MARKERS IN WORK ZONES, INSTALLED ON TO CONCRETE SURFACES, SHALL BE ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS. WZRPMS ARE INTENDED FOR USE ONLY DURING THE NON-SNOW-PLOWING SEASON. WZRPMS SHALL NOT BE PROVIDED DURING THE SNOW-PLOWING SEASON.

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

WHERE A TEMPORARY ALIGNMENT WILL REMAIN IN USE THROUGH THE WINTER, THE WZRPMS SHALL BE REMOVED PRIOR TO THE BEGINNING OF THE SNOW-PLOWING SEASON AND REPLACED APPROXIMATELY APRIL 1, OR AS OTHERWISE DETERMINED BY THE ENGINEER.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS.

AN ESTIMATED QUANTITY OF 12 EACH OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

TRAIL CLOSURE

THE OHIO AND ERIE CANAL TOWPATH WILL BE CLOSED FOR SHORT PERIODS OF TIME WHILE THE WORK IS PERFORMED OVER THE TRAIL. CLOSURES WILL BE LIMITED TO DURATIONS OF APPROXIMATELY 3-5 DAYS IN LENGTH, DURING WEEKDAYS FROM 7 AM TO 6 PM. AT NO TIME SHALL THE TOWPATH TRAIL BE CLOSED DURING WEEKENDS. ADVANCE NOTICE OF THE CLOSURE WILL BE PROVIDED TO THE CITY OF MASSILLON PARKS DISTRICT AND SIGNS WILL BE POSTED BY THE CONTRACTOR AT APPROPRIATE LOCATIONS ON THE TRAIL. THE CITY OF MASSILLON SHALL BE CONTACTED A MINIMUM OF THREE WEEKS PRIOR TO CLOSING THE TRAIL.

THE CITY OF MASSILLON PARK DIRECTOR KEN KAMINSKI MAY BE CONTACTED AT:

505 ERIE STREET NORTH
MASSILLON, OH 44646
PHONE: (330) 832-1621

ALL LABOR, EQUIPMENT AND MATERIAL FOR PLACING AND REMOVING THE CLOSURE SIGNAGE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR:

ITEM 614, MAINTAINING TRAFFIC - LUMP SUM

SEQUENCE OF CONSTRUCTION - 0670

PHASE 1A

PHASE 1A WORK SHALL CONSIST OF CONSTRUCTING BOTH OF THE TEMPORARY CROSSOVERS. TWO LANES OF TRAFFIC IN EACH DIRECTION.

THE CROSSOVERS ARE TO BE CONSTRUCTED IN CONFORMANCE WITH CMS 615. ALL NECESSARY DRAINAGE PROVISIONS, AS SHOWN IN THESE PLANS, SHALL BE INCLUDED WITH THIS ITEM.

ITEM 615, ROADS FOR MAINTAINING TRAFFIC, - LUMP SUM

PHASE 1

PHASE 1 WORK SHALL CONSIST OF CONSTRUCTING STA-30-0670 R. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES. EASTBOUND TRAFFIC SHALL BE CROSSED OVER TO THE EXISTING LEFT STRUCTURE FOR THE DURATION OF THIS PHASE.

PHASE 2

PHASE 2 WORK SHALL CONSIST OF CONSTRUCTING STA-30-0670 L. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES. WESTBOUND TRAFFIC SHALL BE CROSSED OVER TO THE COMPLETED RIGHT STRUCTURE FOR THE DURATION OF THIS PHASE.

UNSUITABLE FOUNDATION SOILS

IF UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED IN THE AREAS OF THE CROSS OVER, THEY SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL MEETING THE REQUIREMENTS OF 203.02.R. THE LOCATIONS AND DIMENSIONS WILL BE AS DETERMINED BY THE ENGINEER.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 204, GRANULAR EMBANKMENT 50 C.Y.

ITEM 204, EXCAVATION OF SUBGRADE 50 C.Y.

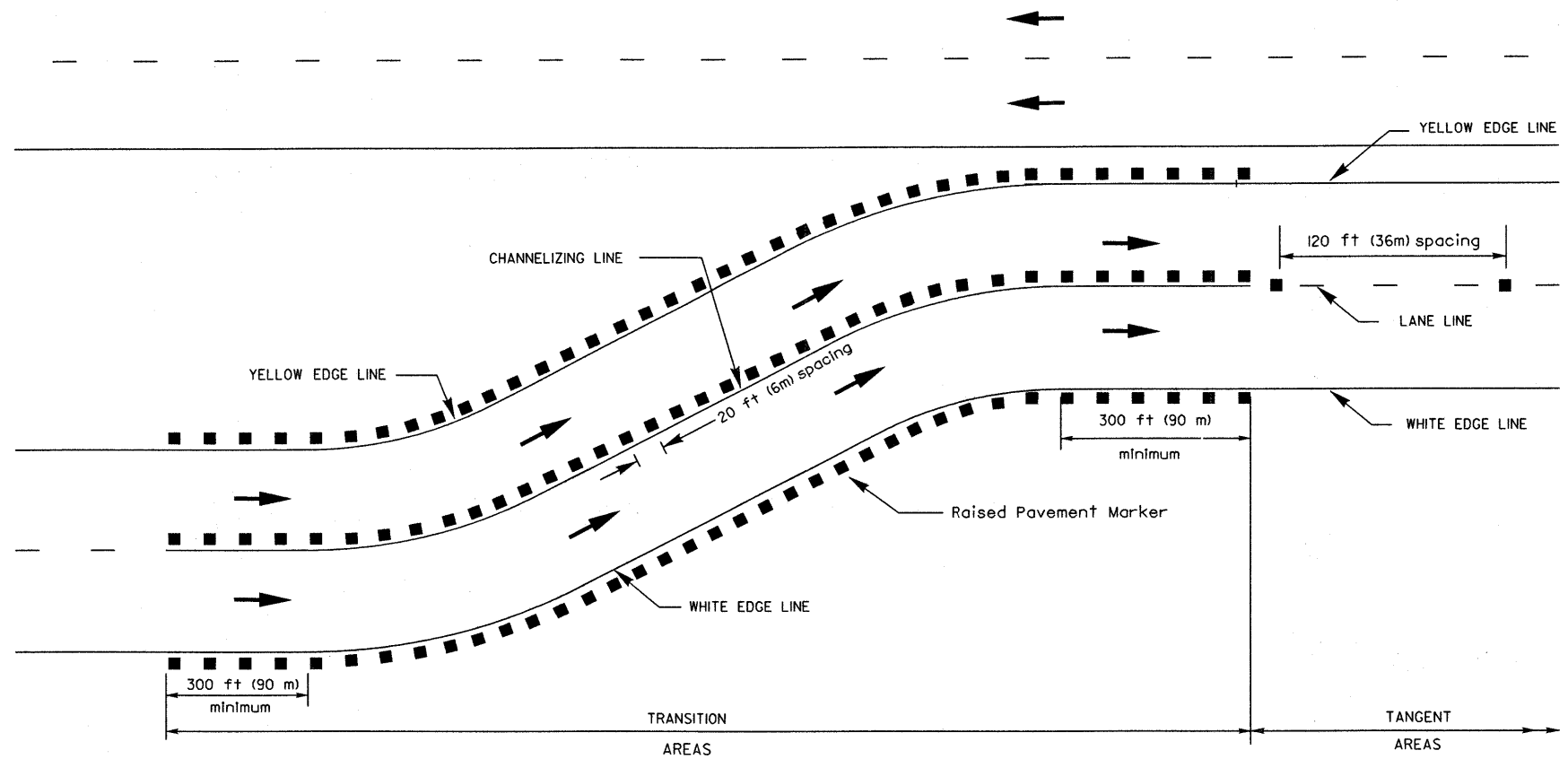
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MAINTENANCE OF TRAFFIC GENERAL NOTES

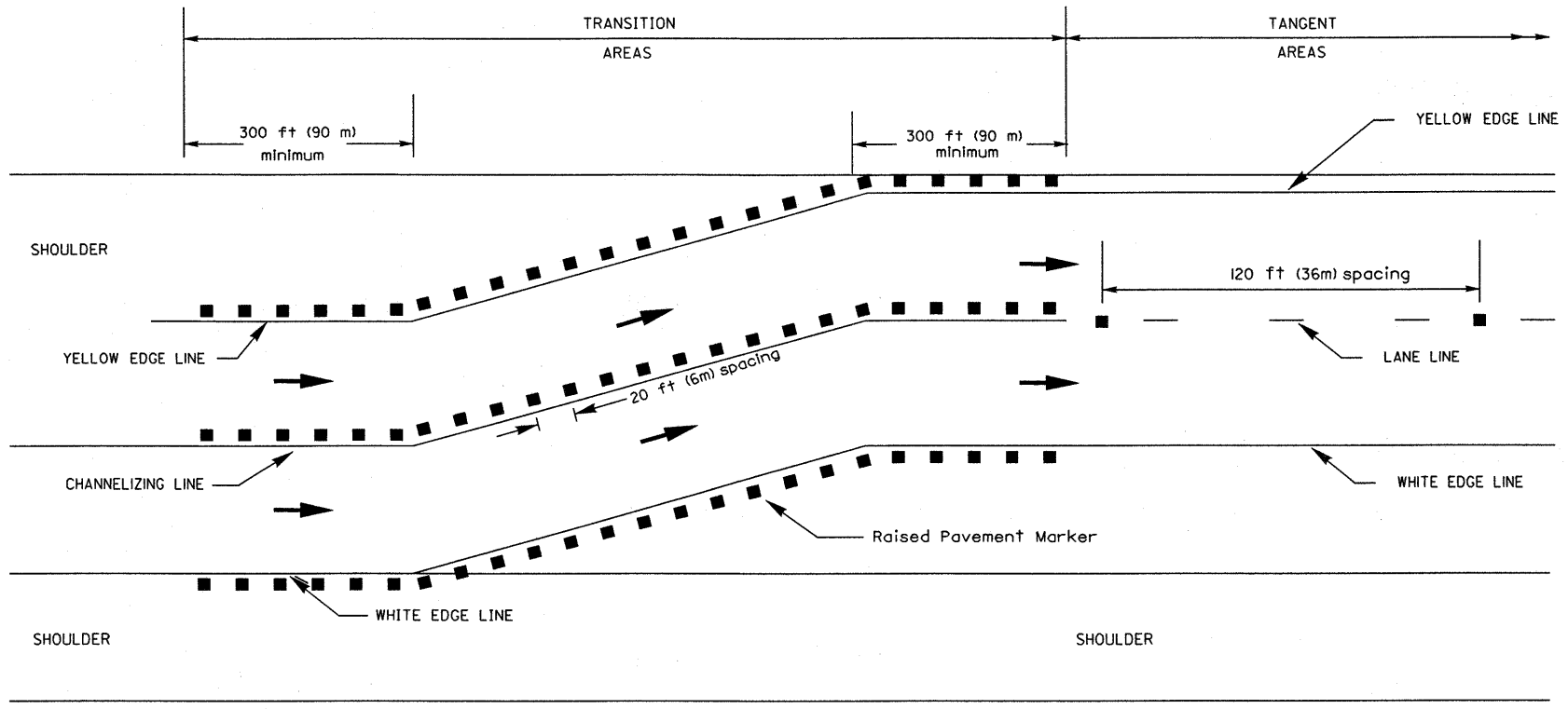
STA-30-(6.70)
(11.57)

NOTES

1. This drawing presents delineation procedures for freeways and expressways on asphalt surfaces. Procedures are provided for transition areas and for tangent areas. The procedures for transition areas apply to crossovers and to lane shifts of 4 feet (1.2 m) or greater. Delineation of transition areas for shifts of less than 4 feet (1.2 m) shall be as per the tangent area delineation.
2. Raised Pavement Markers shall meet the following seasonal specifications:
 - a) Raised Pavement Markers in place during the normal construction season may be either 621 Raised Pavement Markers or 614 Work Zone Raised Pavement Markers (WZRPMs). The normal construction season with regard to use of WZRPMs shall be the period from April 1 through October 15.
 - b) At locations where it is intended that Raised Pavement Markers will winter over, 621 Raised Pavement Markers shall be provided.
 - c) At locations where it is intended that work will continue beyond October 15 but will be completed prior to the beginning of snow-plowing season, 614 WZRPMs may remain in place until such time. Snow-plowing season shall be as specified in the plans. If snow-plowing season is not specified in the plans, it shall be assumed that snow-plowing season runs from October 16 through March 31. If project delays, not the fault of ODOT, cause work to extend into the snow-plowing season, the contractor shall be responsible for replacing WZRPMs with 621 Raised Pavement Markers, as determined by the Engineer, at the contractor's expense.
3. All material furnished shall be listed on the Department's Prequalified Lists.
4. The geometrics of the crossover shall be as shown in the plans. Additional details are provided in Standard Construction Drawing MT-95.70.
5. See Standard Construction Drawings MT-102.10 and MT-102.20 for more details concerning lane shifts.
6. Spacing of raised pavement markers (RPMs) shall be at 20 feet (6 m) center-to-center for all long-line marking within transition areas. Within tangent areas RPMs shall be provided only along the lane lines, spaced at 120 foot (36 m) center-to-center.
7. The RPMs shall be 1-way, facing oncoming traffic, and shall be white or yellow to match the color of the associated line marking.
8. Along the edge lines, the RPMs shall be offset a maximum of 4 inches (100 mm) to the outside of the lines. Along the channelizing lines, the RPMs shall be offset to the left of the lines by no more than 1 inch (25 mm). Along the lane lines the RPMs shall be centered between dashes.
9. The RPMs shall be removed when they are no longer appropriate.
10. Holes resulting from removal of 621 RPMs shall be filled as per 202.10. If removal of the 621 RPMs does not take place immediately after the highlighted alignment becomes invalid, the reflectors within the 621 RPMs shall be removed.
11. Following removal of 621 RPMs resurfacing of the transition shall be performed. The resurfacing shall be performed at the time the surface course is being applied. In preparation for resurfacing, the existing pavement shall be removed to a depth necessary to match the level of the intermediate course of the proposed pavement.



WORK ZONE DELINEATION FOR CROSSOVERS



WORK ZONE DELINEATION FOR LANE SHIFTS

LEGEND

- RPM
- ➔ DIRECTION OF TRAVEL

04-21-06

WORK ZONE DELINEATION ON ASPHALT SURFACES

OFFICE OF TRAFFIC ENGINEERING

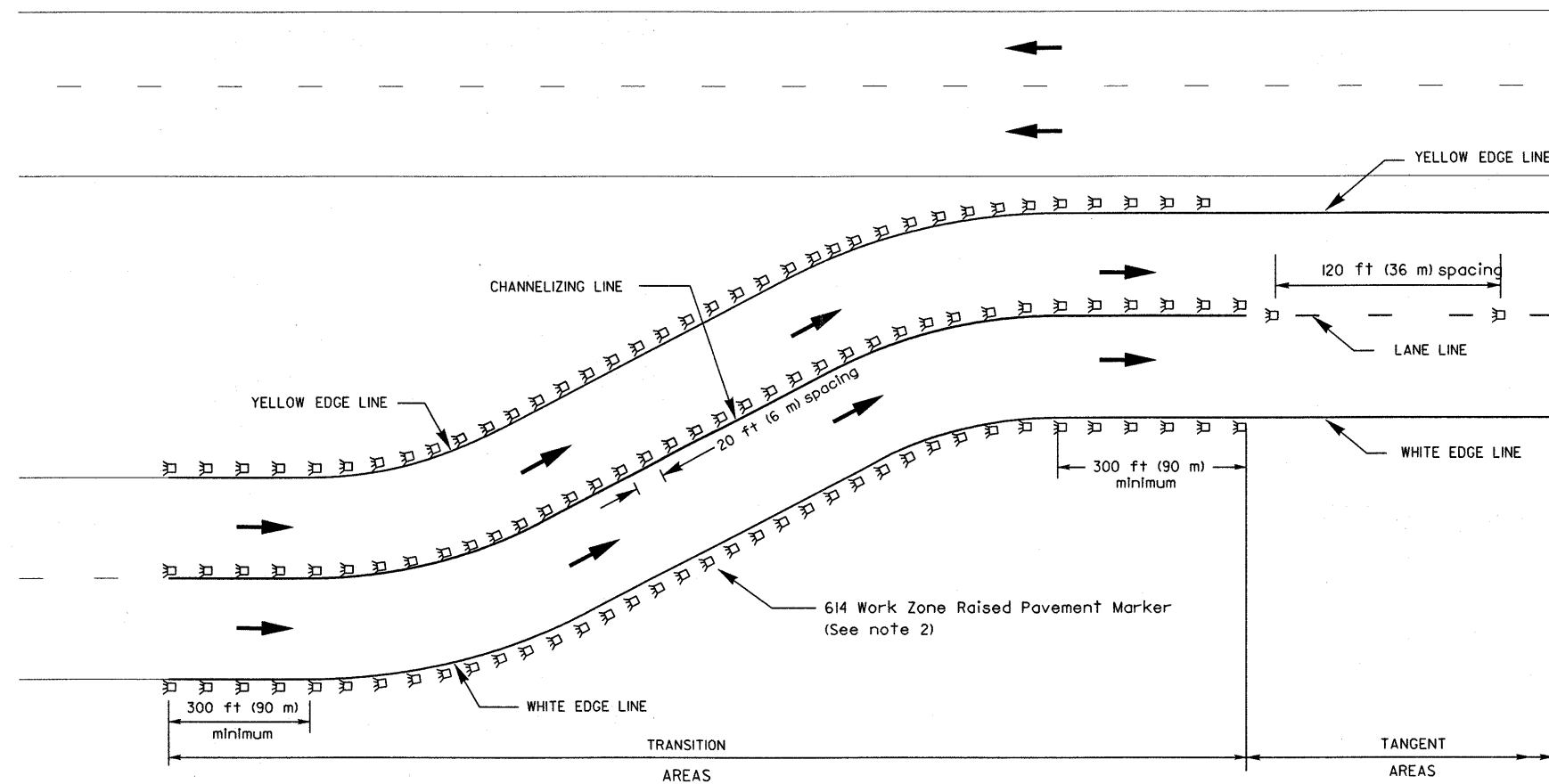
STA-30-(6.70) (11.57)

11A/127

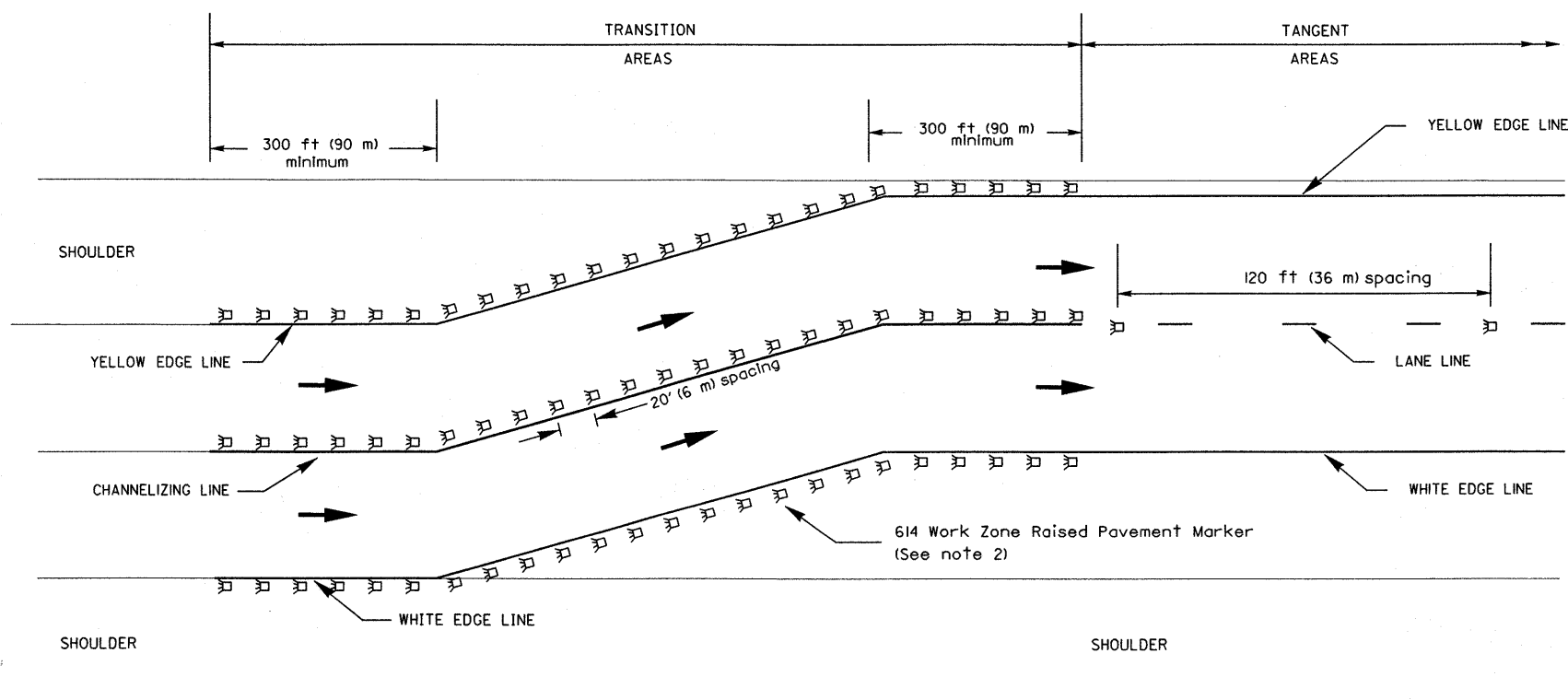
SHB

NOTES

1. This drawing presents delineation procedures for freeways and expressways on concrete surfaces. Procedures are provided for transition areas and for tangent areas. The procedures for transition areas apply to crossovers and to lane shifts of 4 feet (1.2 m) or greater. Delineation of transition areas for shifts of less than 4 feet (1.2 m) shall be as per the tangent area delineation.
2. The Work Zone Raised Pavement Markers (WZRPMS) shown on this drawing are intended for use only during the non-snow-plowing season. WZRPMS shall not be provided during the snow-plowing season. The snow-plowing season shall be from October 16 through March 31 or as otherwise specified in the plans. Where a temporary alignment will remain in use through the winter, the WZRPMS shall be removed prior the beginning of snow-plowing season and replaced approximately April 1, or as otherwise determined by the Engineer.
3. All material furnished shall be listed on the Department's Qualified Products Lists.
4. The geometrics of the crossover shall be as shown in the plans. Additional details are provided in Standard Construction Drawing MT-95.70.
5. See Standard Construction Drawings MT-102.10 and MT-102.20 for more details concerning lane shifts.
6. Spacing of WZRPMS shall be at 20 feet (6 m) center-to-center for all long-line marking within transition areas. Within tangent areas WZRPMS shall be provided only along the lane lines, spaced at 120 feet (36 m) center-to-center.
7. The WZRPMS shall be 1-way, facing oncoming traffic, and shall be white or yellow to match the color of the associated line marking.
8. Along the edge lines, the WZRPMS shall be offset a maximum of 4 inches (100 mm) to the outside of the lines. Along the channelizing lines, the WZRPMS shall be offset to the left of the lines by no more than 1 inch (25 mm). Along the lane lines the WZRPMS shall be centered between dashes.
9. The WZRPMS shall be removed when they are no longer appropriate.





WORK ZONE DELINEATION FOR CROSSOVERS



WORK ZONE DELINEATION FOR LANE SHIFTS

LEGEND

-  WORK ZONE RPM, TYPE A
-  DIRECTION OF TRAVEL

REF NO	SHEET NO	STATION		SIDE	614	614	614	614	614	622	
		FROM	TO		OBJECT MARKER, ONE-WAY	BARRIER REFLECTOR, TYPE B	WORK ZONE LANE LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I	PORTABLE CONCRETE BARRIER, 32"	
					EACH	EACH	FT	FT	FT	FT	
WZWCL	16	501+09	511+50	RT.				1041			
WZYEL	16	503+29	511+50	RT.					821		
WZWCL	16	510+93	511+50	LT.				57			
PCB	16	509+64	511+50	RT.	4	4				190	
WZWCL	17	511+50	514+09	RT.				259			
WZYEL	17	511+50	517+00	RT.					550		
PCB	17	511+50	517+00	RT.	11	11				550	
WZWLL	17	514+09	517+00	RT.			291				
WZWCL	17	511+50	515+43	LT.				393			
WZYEL	17	512+43	517+00	LT.					457		
WZWEL	17	512+43	517+00	LT.					457		
WZWLL	17	515+43	517+00	LT.			157				
PCB	17	515+43	517+00	LT.	3	3				160	
WZYEL	18	517+00	522+50	RT.					550		
WZWLL	18	517+00	522+50	RT.			550				
PCB	18	517+00	522+50	RT.	11	11				550	
WZYEL	18	517+00	522+50	LT.					550		
WZWEL	18	517+00	522+50	LT.					550		
WZWLL	18	517+00	522+50	LT.			550				
PCB	18	517+00	522+50	LT.	11	11				550	
WZYEL	19	522+50	528+00	RT.					550		
WZWLL	19	522+50	528+00	RT.			550				
PCB	19	522+50	527+16	RT.	10	10				470	
WZYEL	19	522+50	528+00	LT.					550		
WZWEL	19	522+50	528+00	LT.					550		
WZWLL	19	522+50	528+00	LT.			550				
PCB	19	522+50	527+36	LT.	10	10				490	
WZYEL	20	528+00	533+50	RT.					550		
WZWLL	20	528+00	533+50	RT.			550				
WZWEL	20	531+61	533+50	RT.					189		
PCB	20	531+66	533+50	RT.	4	4				190	
WZYEL	20	528+00	533+50	LT.					550		
WZWEL	20	528+00	533+50	LT.					550		
WZWLL	20	528+00	533+50	LT.			550				
PCB	20	532+05	533+50	LT.	3	3				150	
TOTALS THIS TABLE					67	67	3748	1750	7424	3300	

REF NO	SHEET NO	STATION		SIDE	411	614	614	614	614	614	615	622
		FROM	TO		STABILIZED CRUSHED AGGREGATE	OBJECT MARKER, ONE-WAY	BARRIER REFLECTOR, TYPE B	WORK ZONE LANE LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	PORTABLE CONCRETE BARRIER, 32"
					CU YD	EACH	EACH	FT	FT	FT	SQ YD	FT
	20	514+24	524+50	C.	76						2944	
	20	534+50	544+78	C.	78						2967	
WZYEL	21	533+50	539+00	RT.						550		
WZWEL	21	533+50	539+00	RT.						550		
WZWLL	21	533+50	539+00	RT.				550				
PCB	21	533+50	539+00	RT.		11	11					550
WZYEL	21	533+50	539+00	LT.						550		
WZWEL	21	533+50	539+00	LT.						550		
WZWLL	21	533+50	539+00	LT.				550				
PCB	21	533+50	539+00	LT.		11	11					550
WZYEL	22	539+00	544+50	RT.						550		
WZWEL	22	539+00	544+50	RT.						550		
WZWLL	22	539+00	543+98	RT.				498				
WZWCL	22	543+98	544+50	RT.					52			
PCB	22	539+00	543+98	RT.		10	10					500
WZYEL	22	539+00	544+50	LT.						550		
WZWEL	22	539+00	544+50	LT.						550		
WZWLL	22	539+00	544+50	LT.				550				
PCB	22	539+00	544+50	LT.		11	11					550
WZYEL	23	544+50	546+98	RT.						248		
WZWEL	23	544+50	546+98	RT.						248		
WZWCL	23	544+50	546+98	RT.						248		
WZYEL	23	544+50	550+00	LT.						550		
WZWEL	23	544+50	550+00	LT.						550		
WZWLL	23	544+50	544+72	LT.				22				
WZWCL	23	544+72	550+00	LT.						528		
PCB	23	544+50	549+38	LT.		10	10					490
WZYEL	24	550+00	555+73	LT.						573		
WZWEL	24	550+00	555+73	LT.						573		
WZWCL	24	550+00	558+43	LT.						843		
TOTALS THIS TABLE					154	53	53	2170	1671	7142	5911	2640
TOTALS PREVIOUS TABLE						67	67	3748	1750	7424		3300
TOTALS THIS SHEET					154	120	120	5918	3421	14,566	5911	5940
TOTALS CARRIED TO SHEET 14					154	120	120	1.1 MI	3421	2.8 MI	5911	5940

CALCULATED SMM CHECKED JEP
 MAINTENANCE OF TRAFFIC SUBSUMMARY - PHASE 1A
 STA-30-(6.70)(11.57)
 12
 127

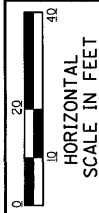
REF NO	SHEET NO	STATION		SIDE	614	614	614	614	614	614	614	614	622																										
		FROM	TO		WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, YELLOW	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, WHITE	WORK ZONE RAISED PAVEMENT MARKER, ON CONCRETE SURFACES, YELLOW	WORK ZONE RAISED PAVEMENT MARKER, ON CONCRETE SURFACES, WHITE	OBJECT MARKER, TWO-WAY	BARRIER REFLECTOR, TYPE B	WORK ZONE EDGE LINE, CLASS 1, YELLOW	WORK ZONE EDGE LINE, CLASS 1, WHITE	PORTABLE CONCRETE BARRIER, 32", AS PER PLAN	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT																	
WZYEL	39	489+31	492+00	RT.								269																											
WZYEL	40	492+00	503+00	RT.									1100																										
WZYEL	41	503+00	506+90	RT.								390																											
TRAN	41	506+90	514+00	RT.	35	35						710	710																										
TRAN	42	514+00	525+00	RT/LT	55	55						1100	1100																										
WZYEL	42	520+49	525+00	LT.								451																											
PCBGS	42	520+49	525+00	LT.						9	9												450																
TRAN	43	525+00	527+50	LT.	11	11	1	1				250	250																										
TAN	43	527+50	531+50	LT.								400	400																										
TRAN	43	531+50	536+00	LT.	22	20	2	2				450	450																										
WZYEL	43	525+00	536+00	LT.								1100																											
PCBGS	43	525+00	536+00	LT.						22	22												1100																
TRAN	44	536+00	546+92	LT/RT	55	55						1092	1092																										
WZYEL	44	536+00	547+00	LT.								1100																											
PCBGS	44	536+00	546+06	LT.						20	20												1010																
WZYEL	45	547+00	558+00	LT.								1100																											
WZYEL	46	558+00	559+90	LT.								190																											
TOTALS THIS SHEET					176	176	3	3	51	51	9702	4002	2560																										
TOTALS THIS SHEET					352		6				1.8 MI	0.8 MI																											
TOTALS CARRIED TO SHEET 14					352		6		51	51	2.6 MI	2560																											

CALCULATED
SMM
CHECKED
JEP

MAINTENANCE OF TRAFFIC SUBSUMMARY - PHASE 1

REF NO	SHEET NO	STATION		SIDE	411	614	614	614	614	614	614	614	614	614	614	615	622	622					
		FROM	TO		CU YD	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	SQ YD	FT	FT				
WZYEL	47	501+95	506+00	RT.											405								
WZYEL	48	506+00	517+00	RT.											1100								
TRAN	48	512+13	517+00	LT.		24	24								487	487							
PCBGS	48	513+40	517+00	RT.							7	7									360		
WZYEL	49	517+00	528+00	RT.											1100								
TRAN	49	517+00	527+50	LT/RT		52	52	1	1						1050	1050							
TAN	49	527+50	528+00	RT.											50	50							
PCBGS	49	517+00	528+00	RT.							22	22									1100		
WZYEL	50	528+00	539+00	RT.											1100								
TAN	50	528+00	531+50	RT.											350	350							
TRAN	50	531+50	539+00	RT.		35	35	2	2						750	750							
PCBGS	50	528+00	539+00	RT.							22	22									1100		
WZYEL	51	539+00	540+22	RT.											122								
TRAN	51	539+00	550+00	RT/LT		55	55								1100	1100							
PCBGS	51	539+00	540+22	RT.							2	2									120		
TRAN	52	550+00	551+17	LT.		6	6								117	117							
WZYEL	52	551+17	561+00	LT.											983								
WZYEL	53	561+00	567+97	LT.											697								
TOTALS THIS SHEET						172	172	3	3		53	53			9411	3904					2680		
TOTALS THIS SHEET						344		6							1.8 MI	0.8 MI							
TOTALS THIS SHEET						344		6			53	53			2.6 MI						2680		
TOTALS FROM SHEET 12					154					120	120	1.1 MI	3421		2.8 MI	5911	5940						
TOTALS FROM SHEET 13						352		6			51	51			2.6 MI						2560		
TOTALS CARRIED TO GENERAL SUMMARY					154	696		12		120	104	224	1.1 MI	3421	8 MI		5911	5940			5240		

CALCULATED SMM CHECKED JEP
MAINTENANCE OF TRAFFIC SUBSUMMARY - PHASE 2
STA - 30 - (6.70) (11.57)
 14
 127



CALCULATED SMM
CHECKED JEP

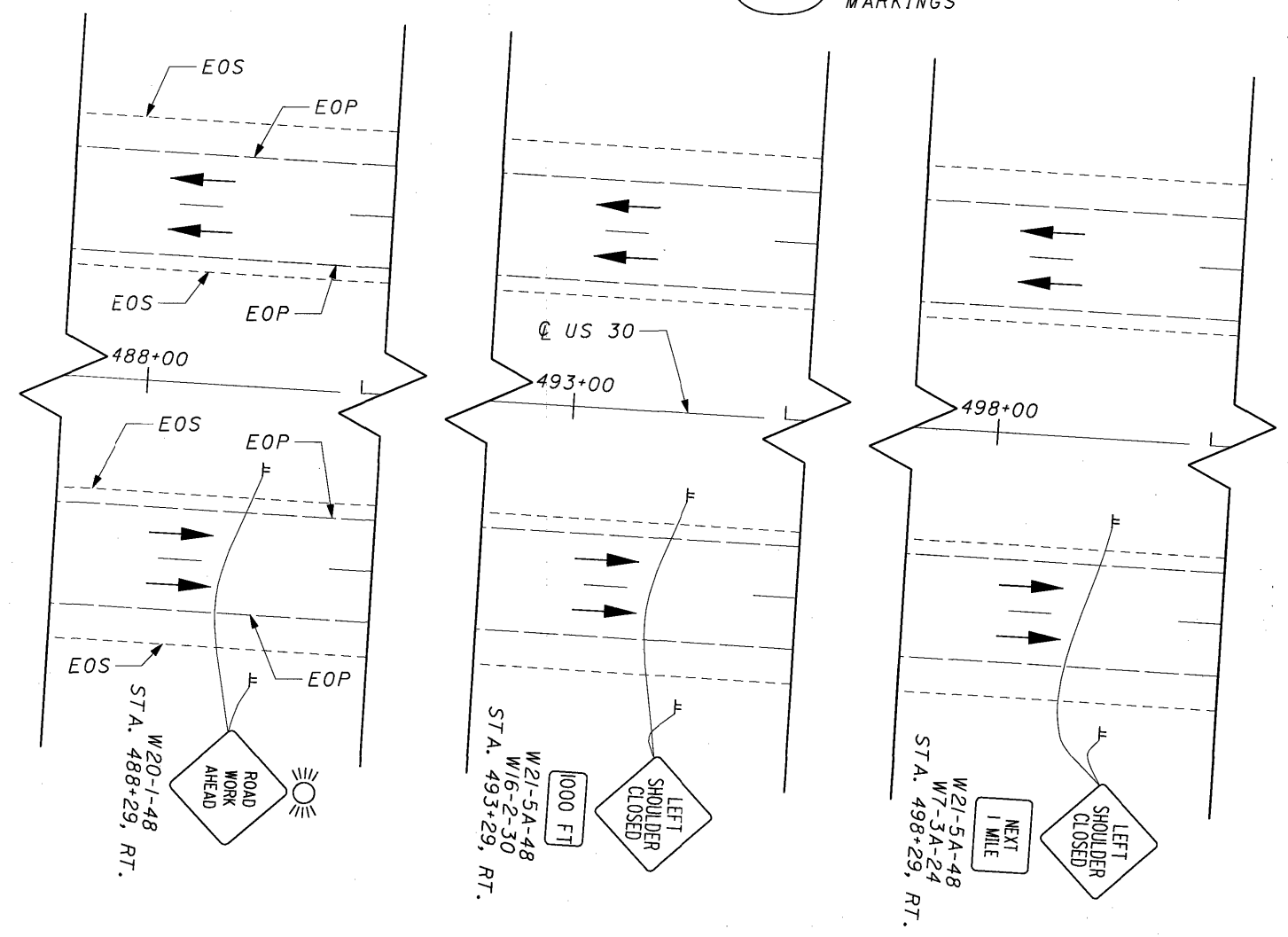
MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 482+80 TO STA. 511+50

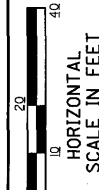
STA-30-(6.70)
(11.57)

LEGEND

- (WZYL) WORK ZONE EDGE LINE, YELLOW
- (WZWEL) WORK ZONE EDGE LINE, WHITE
- (TRAN) TRANSITION AREA DELINEATION
- (TAN) TANGENT AREA DELINEATION
- (WZWLL) WORK ZONE LANE LINE, WHITE
- (WZWCL) WORK ZONE CHANNELIZING LINE, WHITE
- (PCB) 32" PORTABLE CONCRETE BARRIER
- (PCBGS) 32" PORTABLE CONCRETE BARRIER WITH 18" GLARE SCREEN
- (R) REMOVAL OF EXISTING PAVEMENT MARKINGS

- WORK ZONE
- TEMPORARY PAVEMENT
- WORK ZONE SIGNS, ONE POST AND TWO POST
- 32" PORTABLE CONCRETE BARRIER
- 32" PORTABLE CONCRETE BARRIER WITH 18" GLARE SCREEN
- TAPERED END PIECE
- REMOVAL OF EXISTING PAVEMENT MARKINGS
- DRUMS

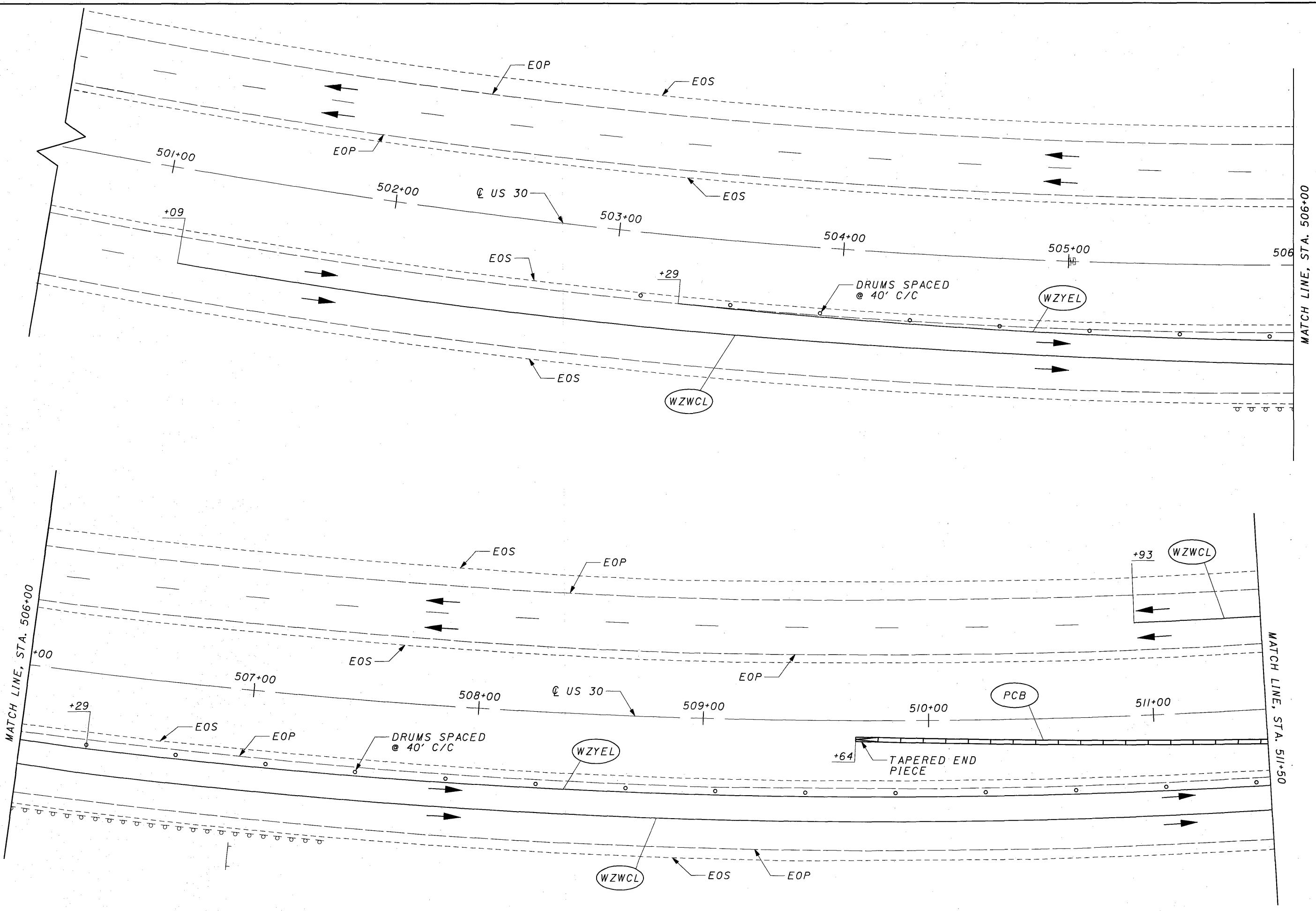


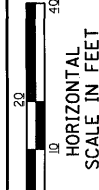
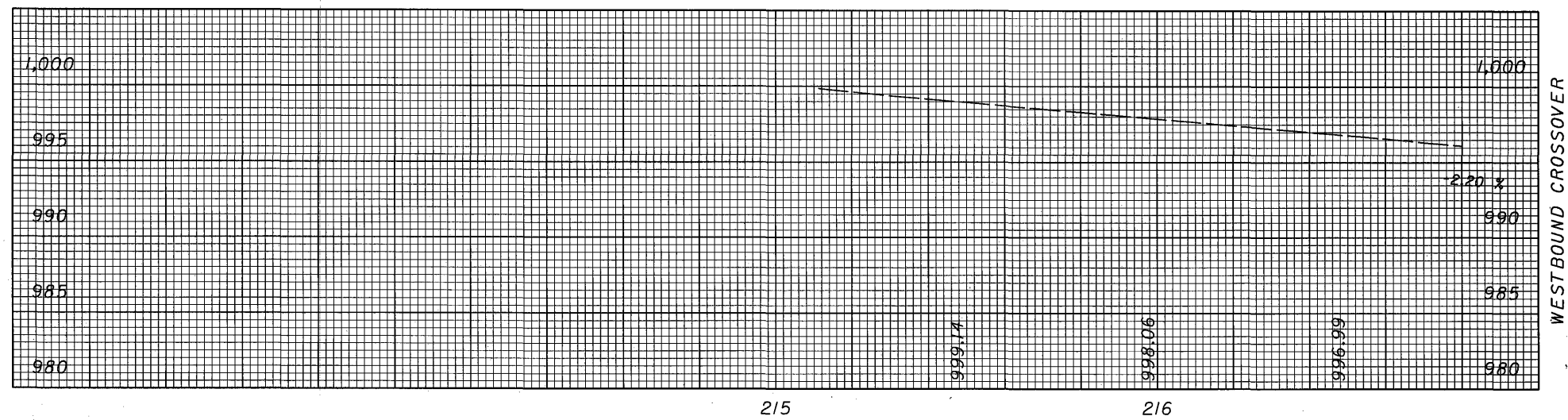
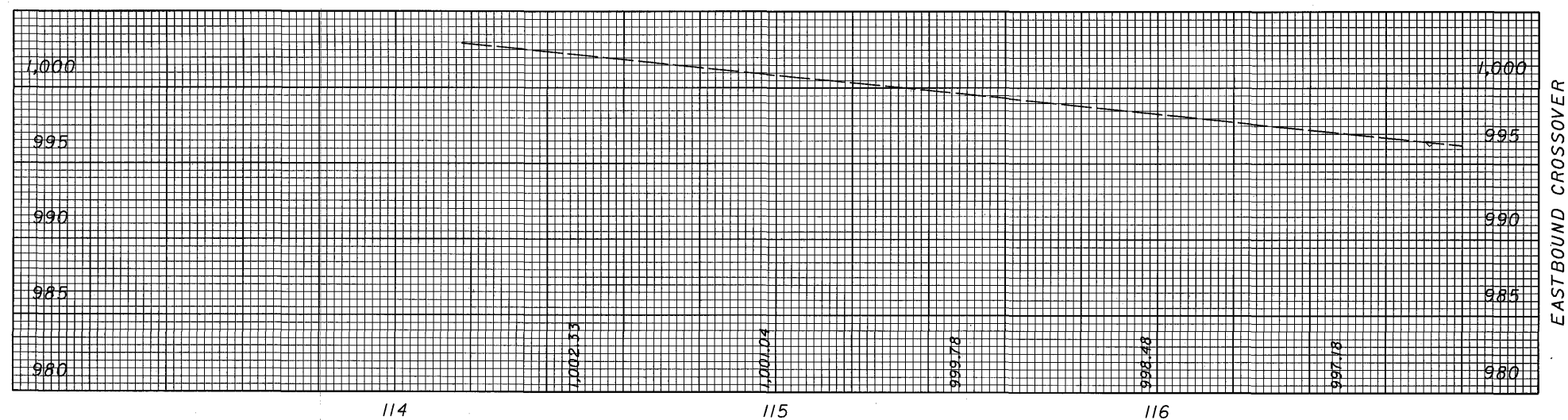
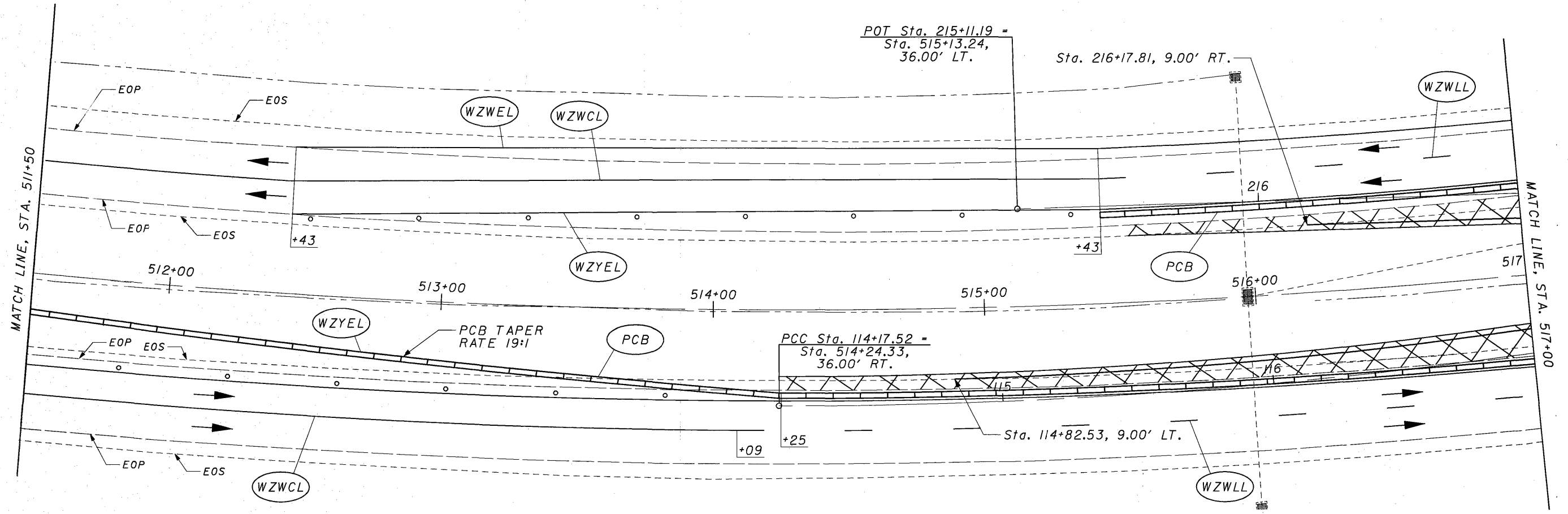


CALCULATED
SMM
CHECKED
JEP

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 482+80 TO STA. 511+50

STA-30-(6.70)
(11.57)





CALCULATED: SMM
 CHECKED: JEP

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 511+50 TO STA. 517+00

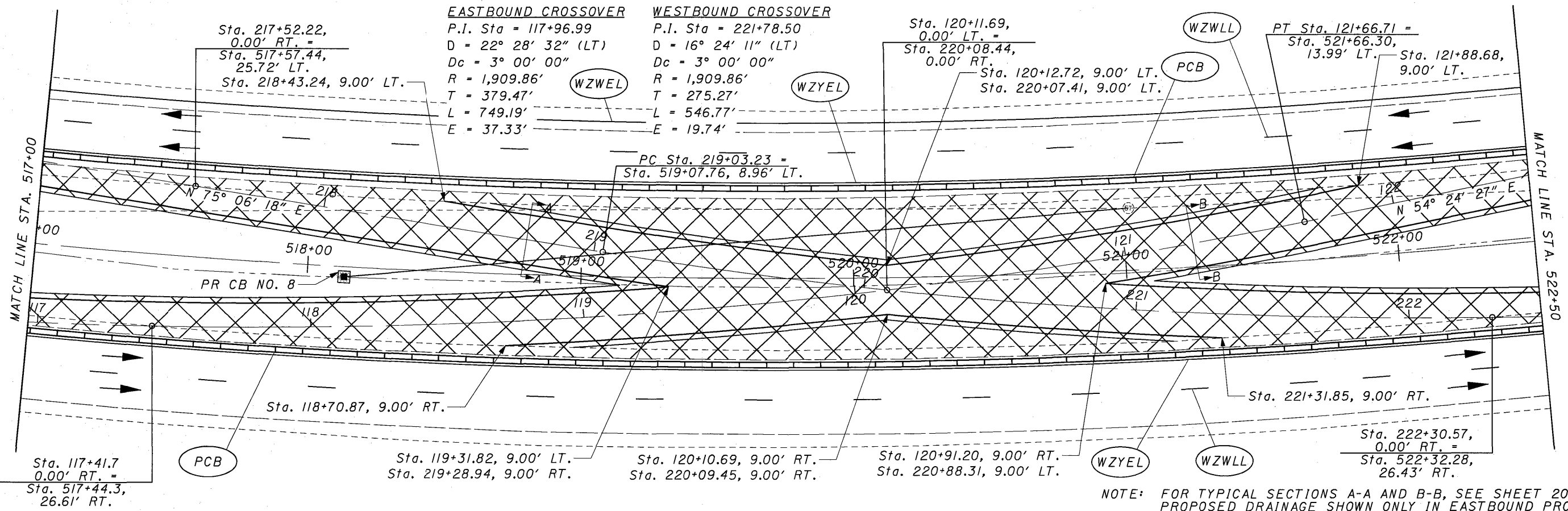
STA-30-(6.70)
(11.57)



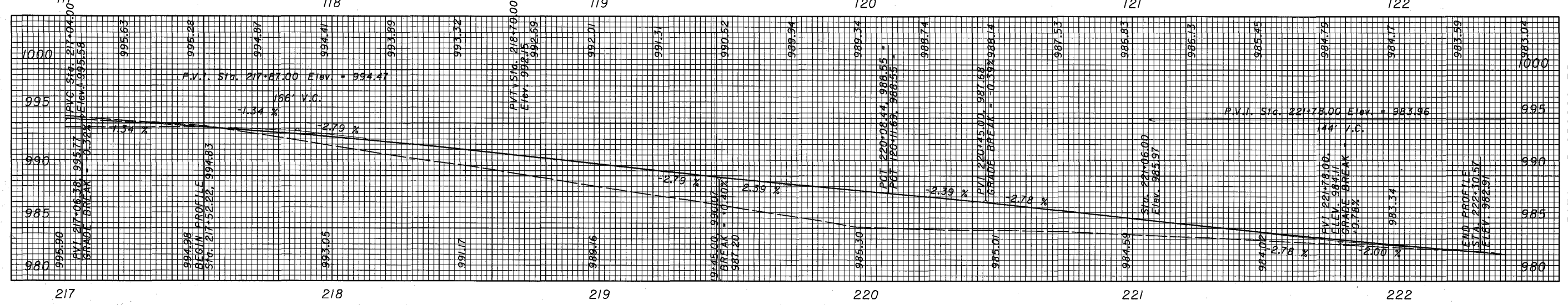
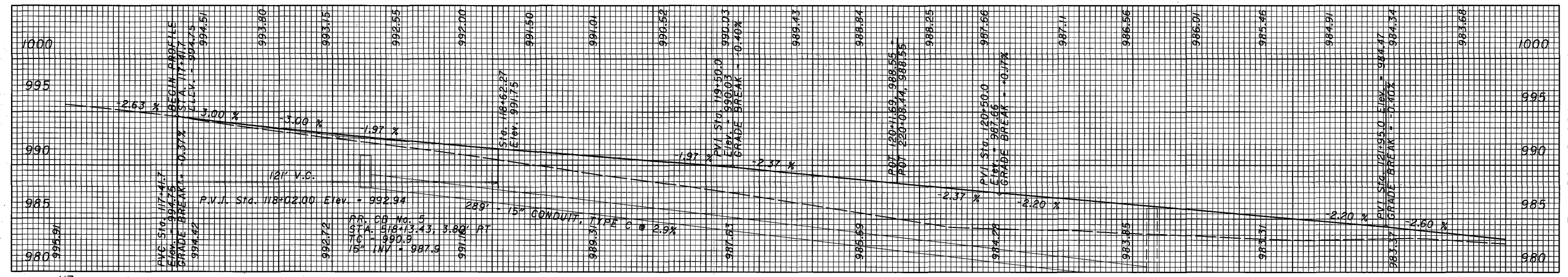
CALCULATED
SMM
CHECKED
JEP

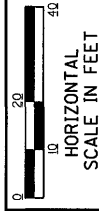
MAINTENANCE OF TRAFFIC - PHASE 1A
STA 517+00 TO STA. 522+50

STA-30-(6.70)
(11.57)



NOTE: FOR TYPICAL SECTIONS A-A AND B-B, SEE SHEET 20/127. PROPOSED DRAINAGE SHOWN ONLY IN EASTBOUND PROFILE

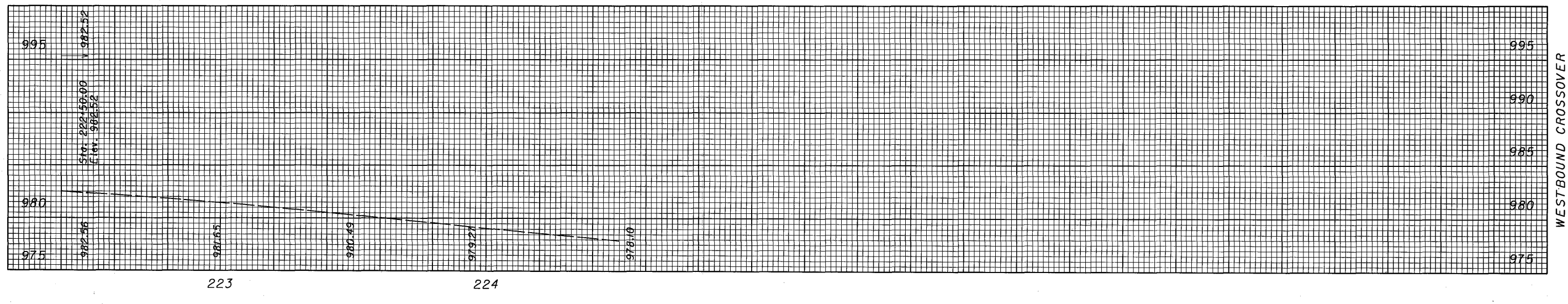
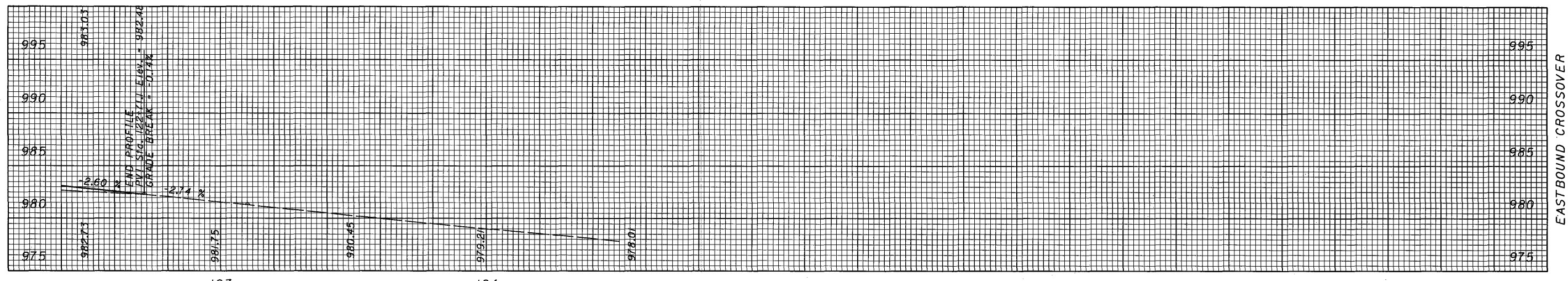
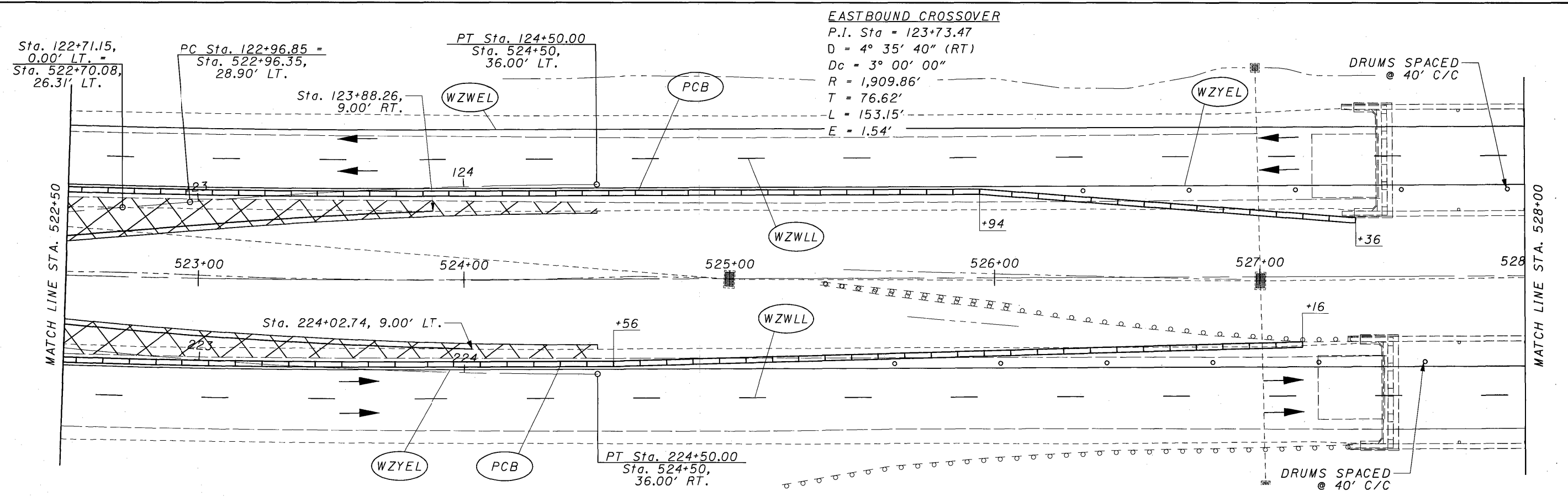


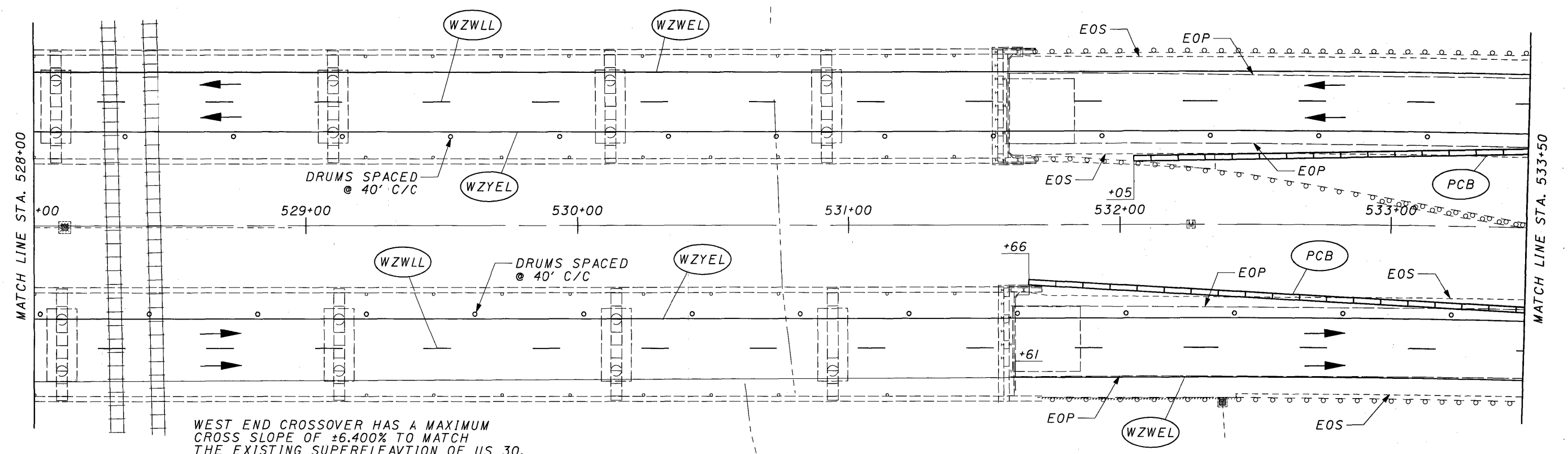


CALCULATED SMM CHECKED JEP

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 522+50 TO STA. 528+00

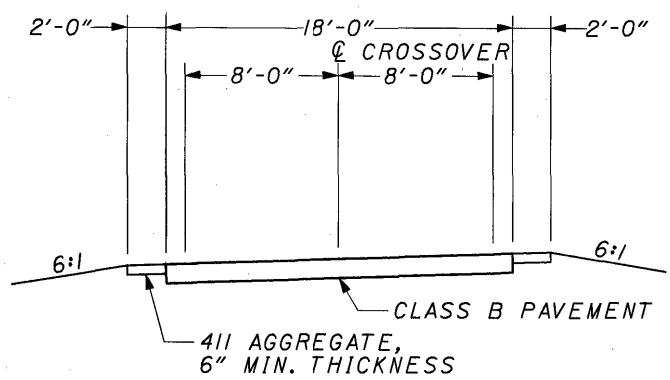
STA-30-(6.70)
(11.57)



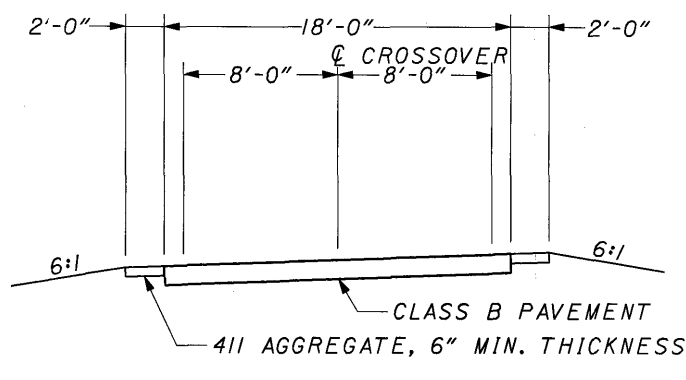


WEST END CROSSOVER HAS A MAXIMUM CROSS SLOPE OF $\pm 6.400\%$ TO MATCH THE EXISTING SUPERELEVATION OF US 30.

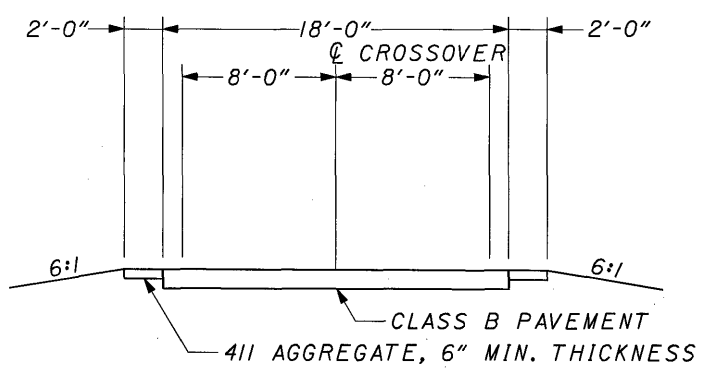
EAST END CROSSOVER HAS A MAXIMUM CROSS SLOPE OF $\pm 2.000\%$ TO MATCH THE EXISTING SUPERELEVATION OF US 30.



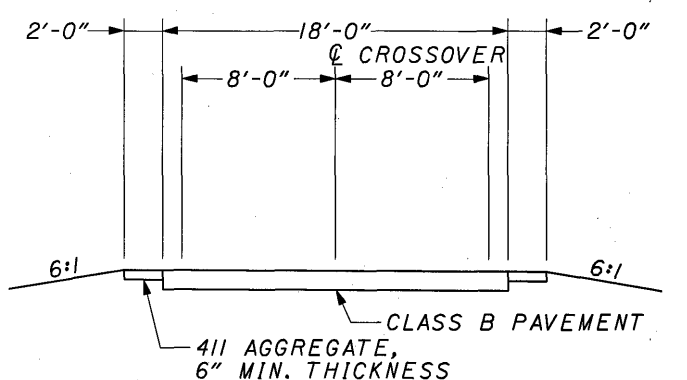
TYPICAL SECTION A-A
 STA. 218+75
 WESTBOUND
 WEST END CROSSOVER



TYPICAL SECTION B-B
 STA. 121+25
 EASTBOUND
 WEST END CROSSOVER

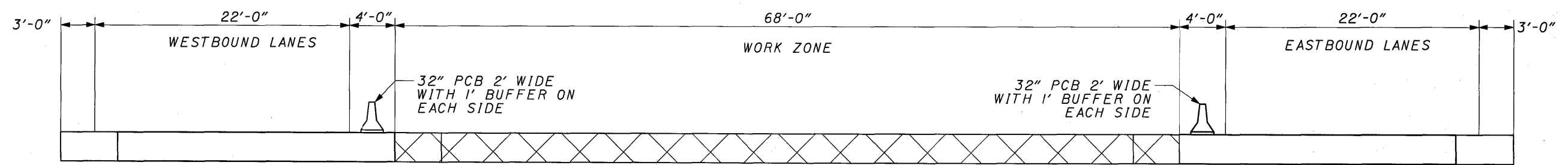


TYPICAL SECTION C-C
 STA. 138+50
 EASTBOUND
 EAST END CROSSOVER

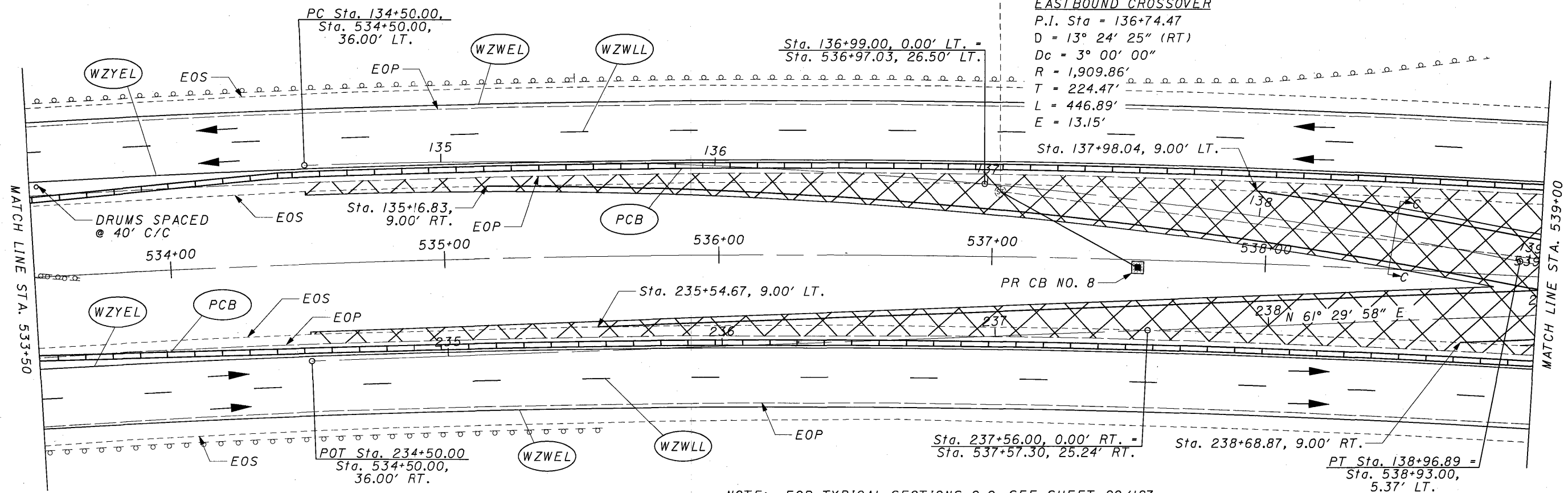


TYPICAL SECTION D-D
 STA. 241+00
 WESTBOUND
 EAST END CROSSOVER

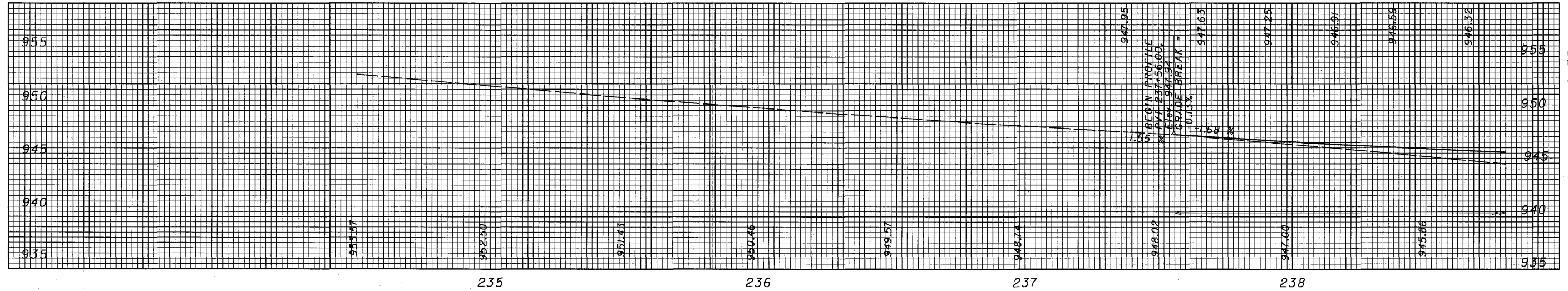
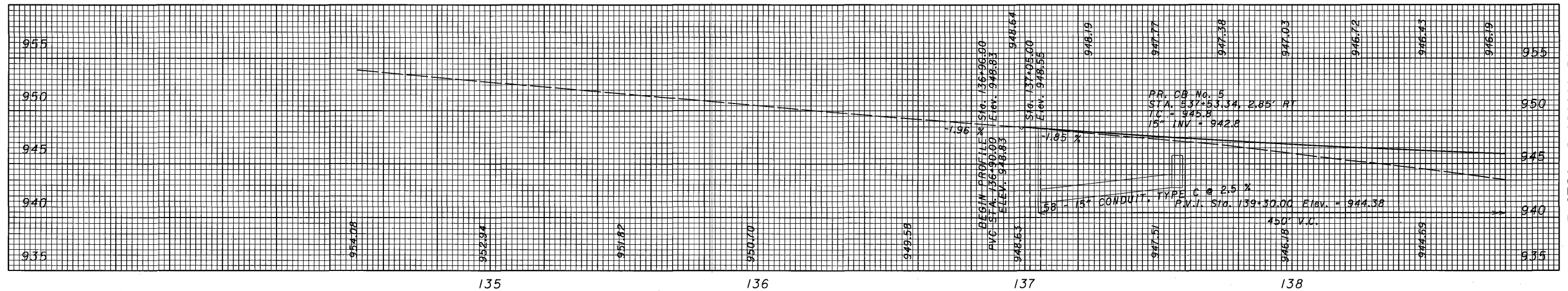
ITEM NUMBER	ITEM DESCRIPTION	WEST END CROSSOVER	EAST END CROSSOVER
411	STABILIZED CRUSHED AGGREGATE	76 CU YD	78 CU YD
615	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	2944 SQ YD	2967.5 SQ YD



TYPICAL SECTION
 CROSSOVER CONSTRUCTION
 WORK ZONE



NOTE: FOR TYPICAL SECTIONS C-C, SEE SHEET 20/127.
 PROPOSED DRAINAGE SHOWN ONLY IN EASTBOUND PROFILE.



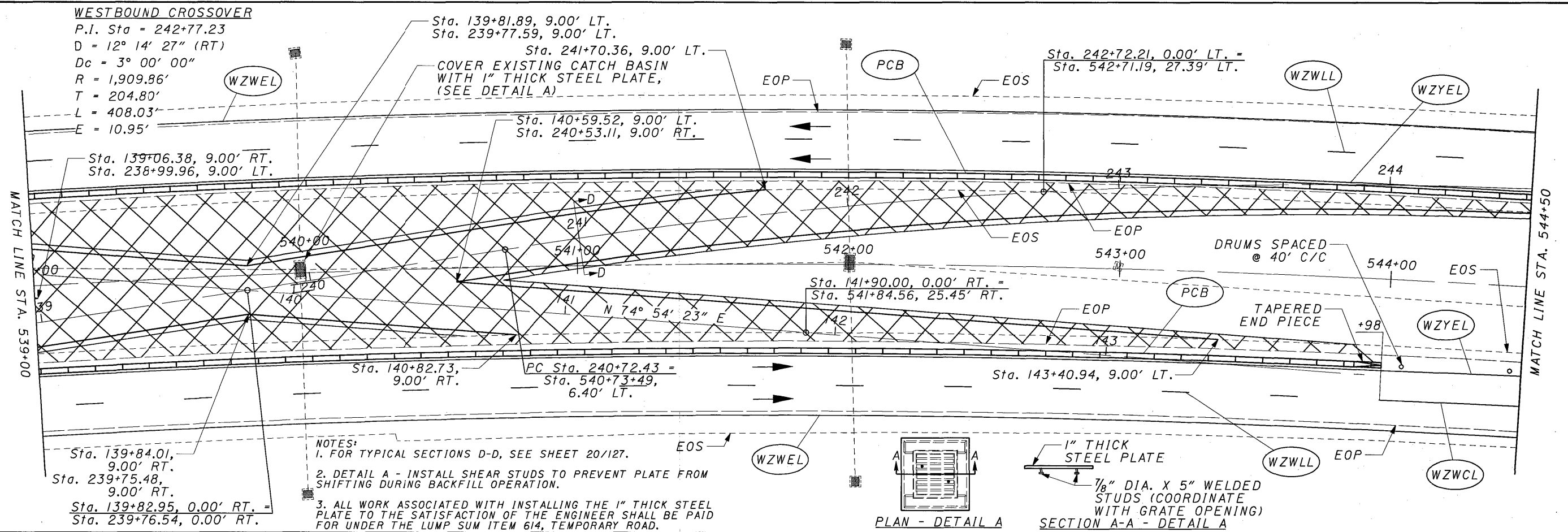
MAINTENANCE OF TRAFFIC - PHASE 1A
 STA. 533+50 TO STA. 539+00

STA-30-(6.70)
 (11.57)

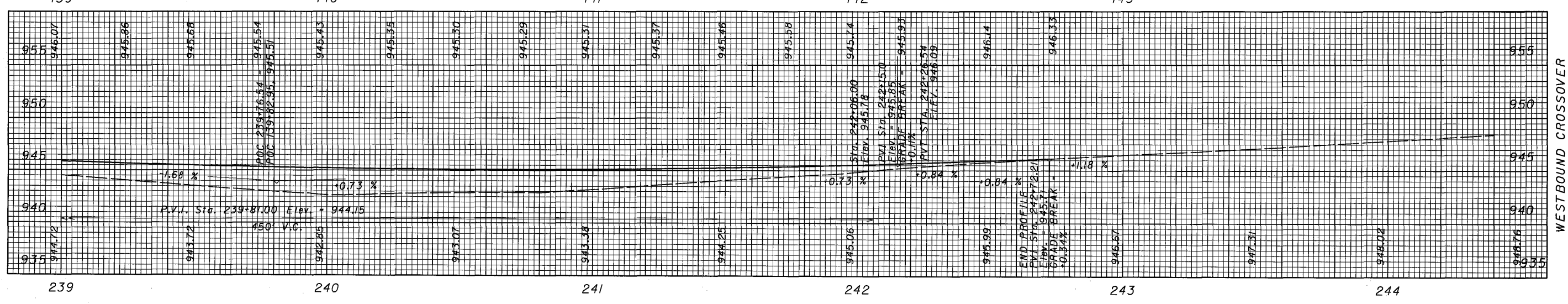
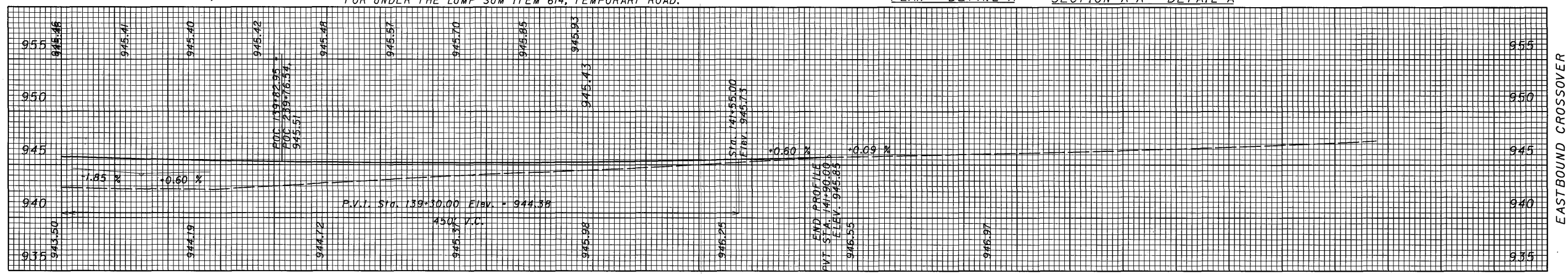
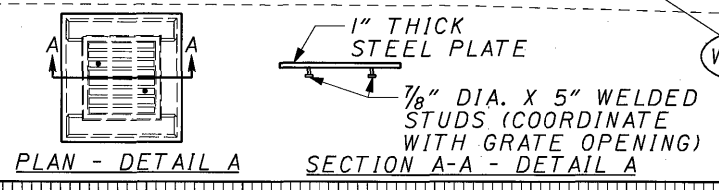
21
 127

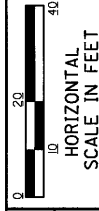
CALCULATED SMM CHECKED JEP

HORIZONTAL SCALE IN FEET



- NOTES:
- FOR TYPICAL SECTIONS D-D, SEE SHEET 20/127.
 - DETAIL A - INSTALL SHEAR STUDS TO PREVENT PLATE FROM SHIFTING DURING BACKFILL OPERATION.
 - ALL WORK ASSOCIATED WITH INSTALLING THE 1" THICK STEEL PLATE TO THE SATISFACTION OF THE ENGINEER SHALL BE PAID FOR UNDER THE LUMP SUM ITEM 614, TEMPORARY ROAD.

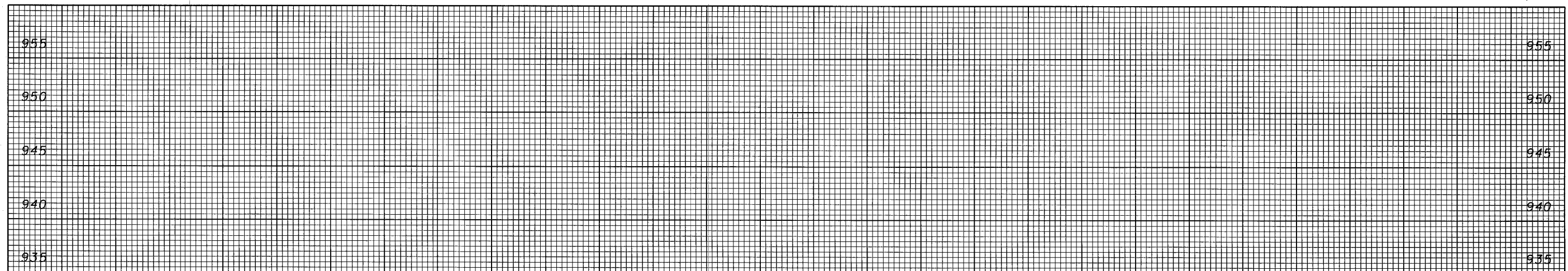
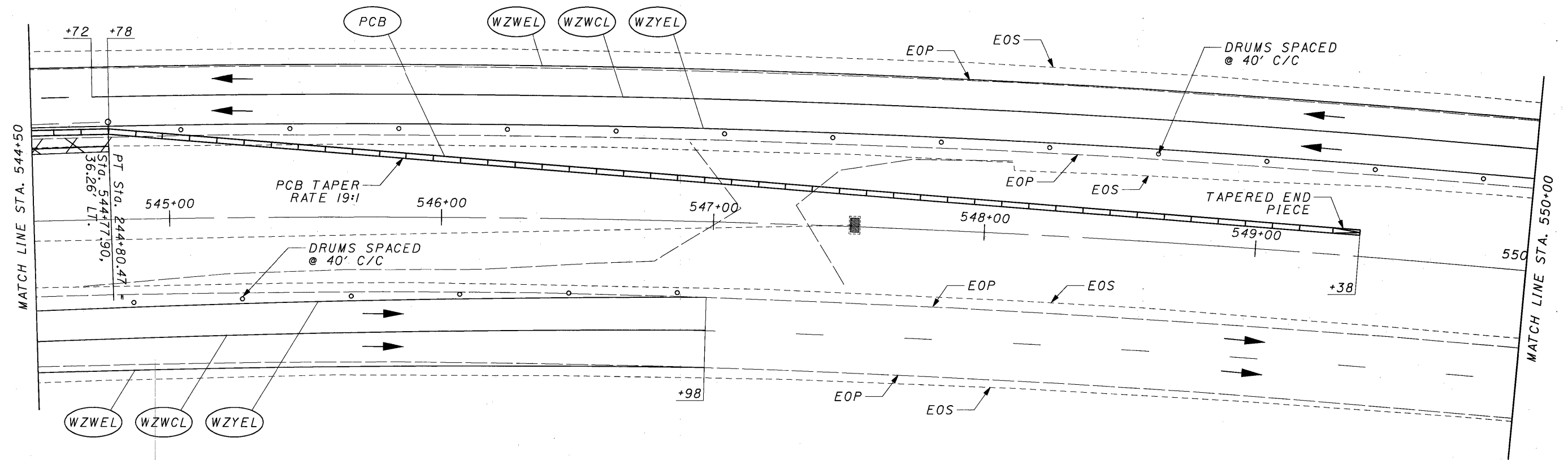




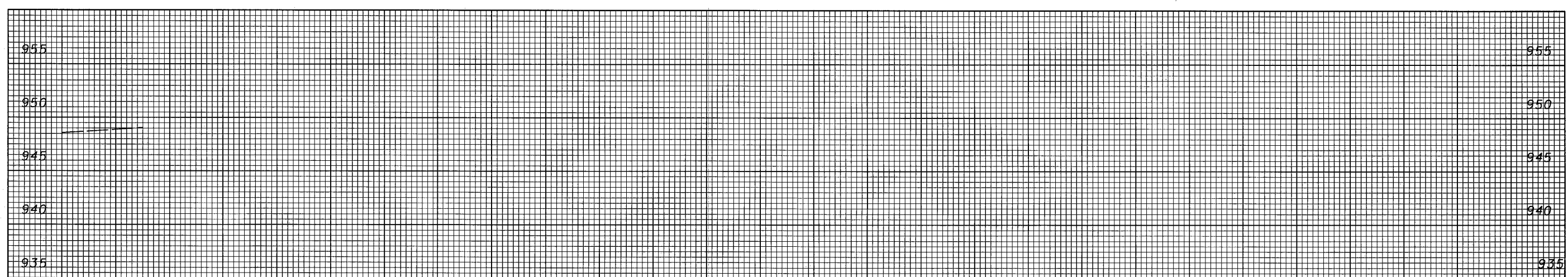
CALCULATED SMM CHECKED JEP

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 539+00 TO STA. 544+50

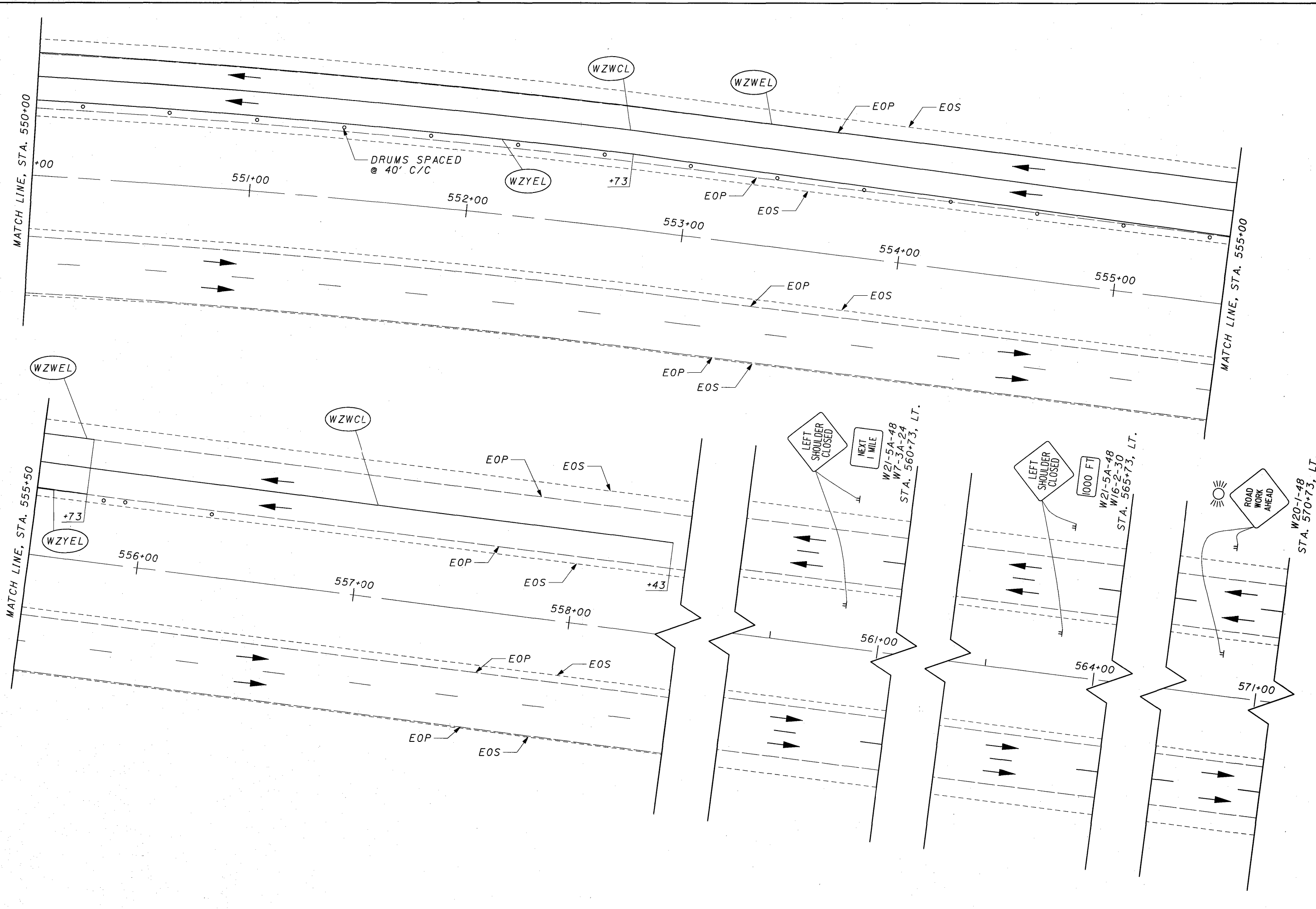
STA-30-(6.70)
(11.57)



EASTBOUND CROSSOVER



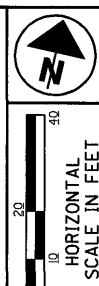
WESTBOUND CROSSOVER

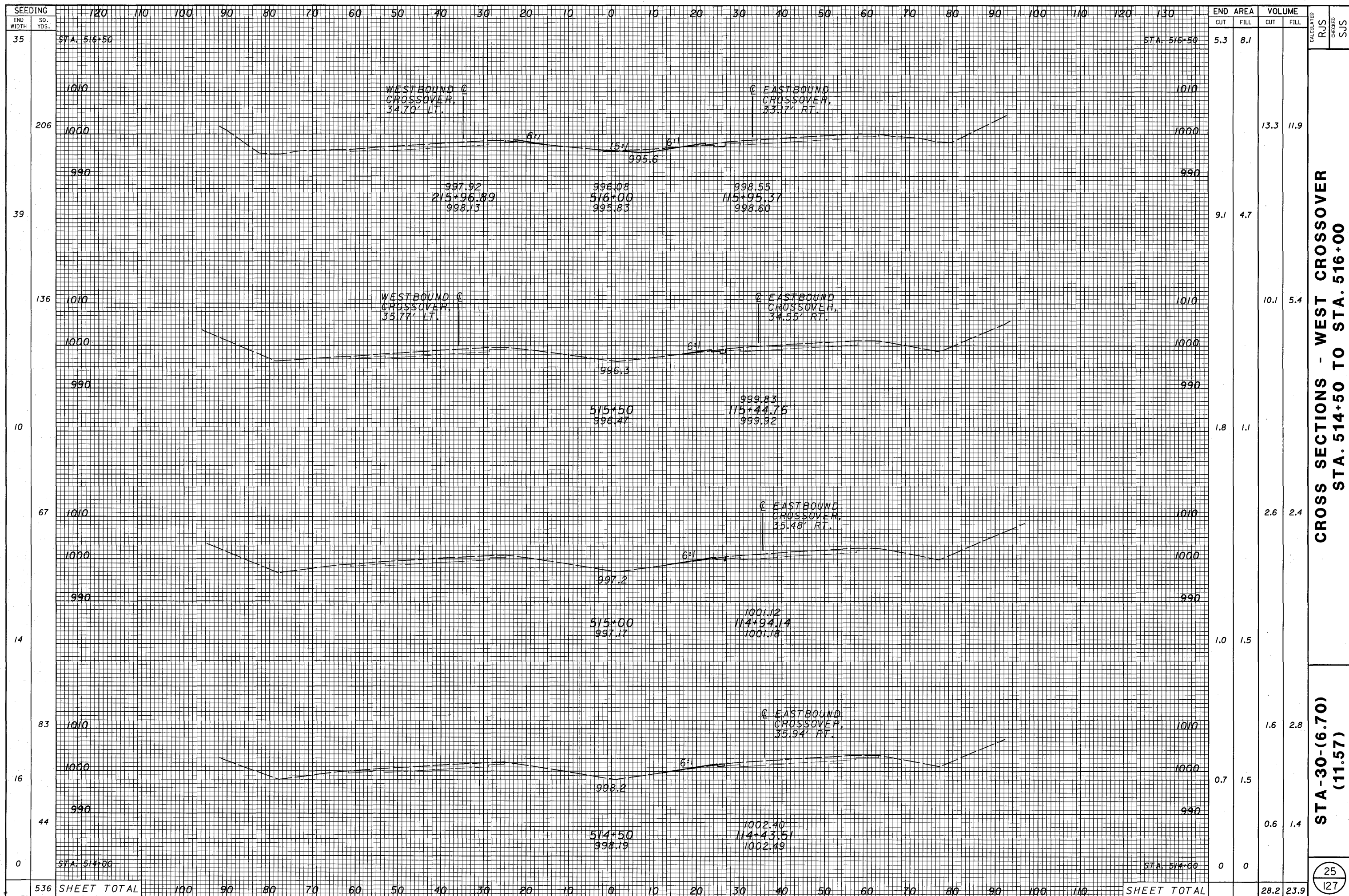


CALCULATED
 SMM
 CHECKED
 JEP

MAINTENANCE OF TRAFFIC - PHASE 1A
STA. 544+50 TO STA. 550+00

STA-30-(6.70)
 (11.57)

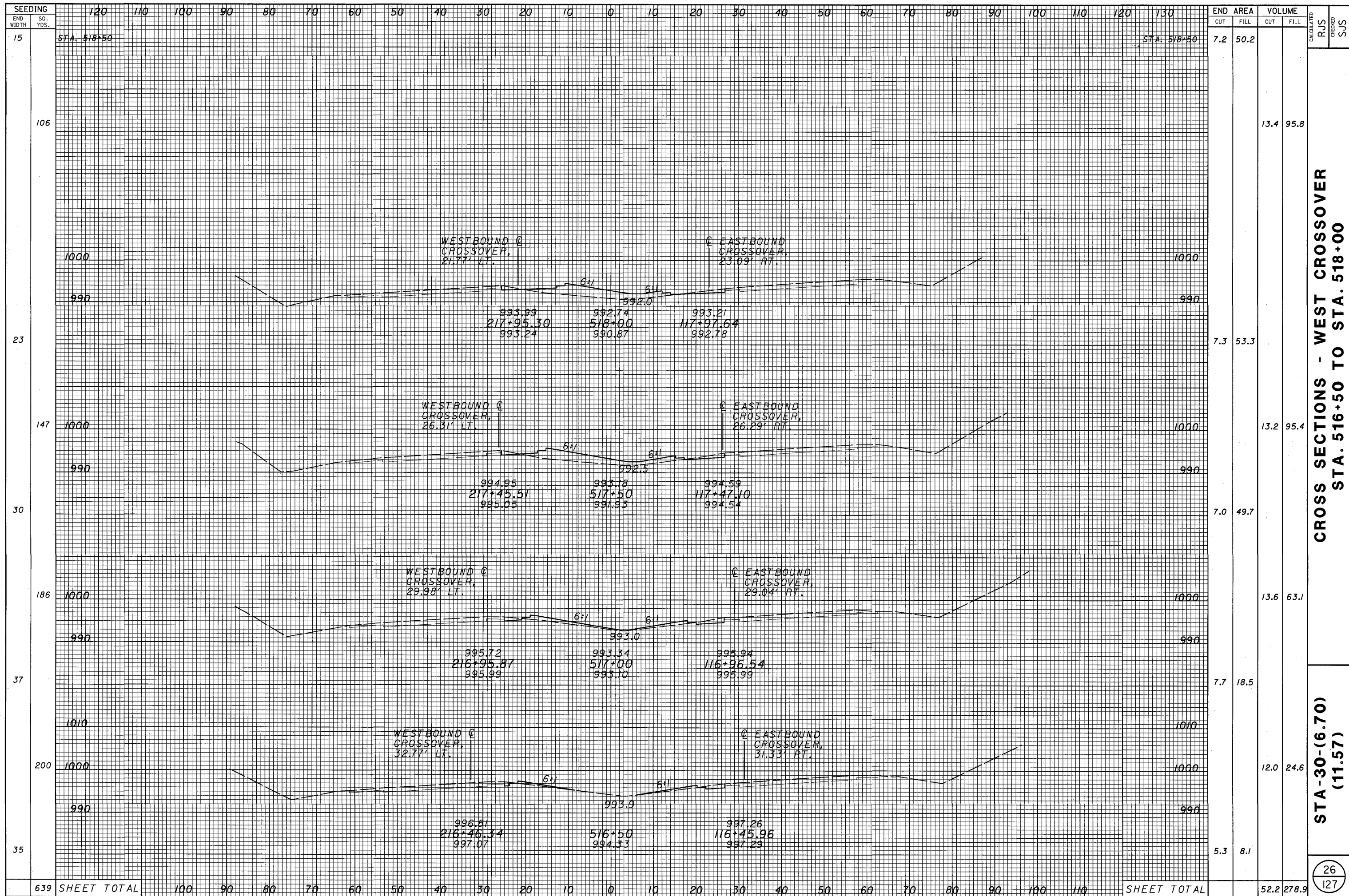




END STA.	AREA CUT	AREA FILL	VOLUME		CALCULATED RJS	CHECKED SJS
			CUT	FILL		
516+50	5.3	8.1	13.3	11.9		
516+50	9.1	4.7	10.1	5.4		
515+50	1.8	1.1	2.6	2.4		
515+00	1.0	1.5	1.6	2.8		
514+50	0.7	1.5	0.6	1.4		
514+00	0	0	28.2	23.9		
SHEET TOTAL						

CROSS SECTIONS - WEST CROSSOVER
STA. 514+50 TO STA. 516+00

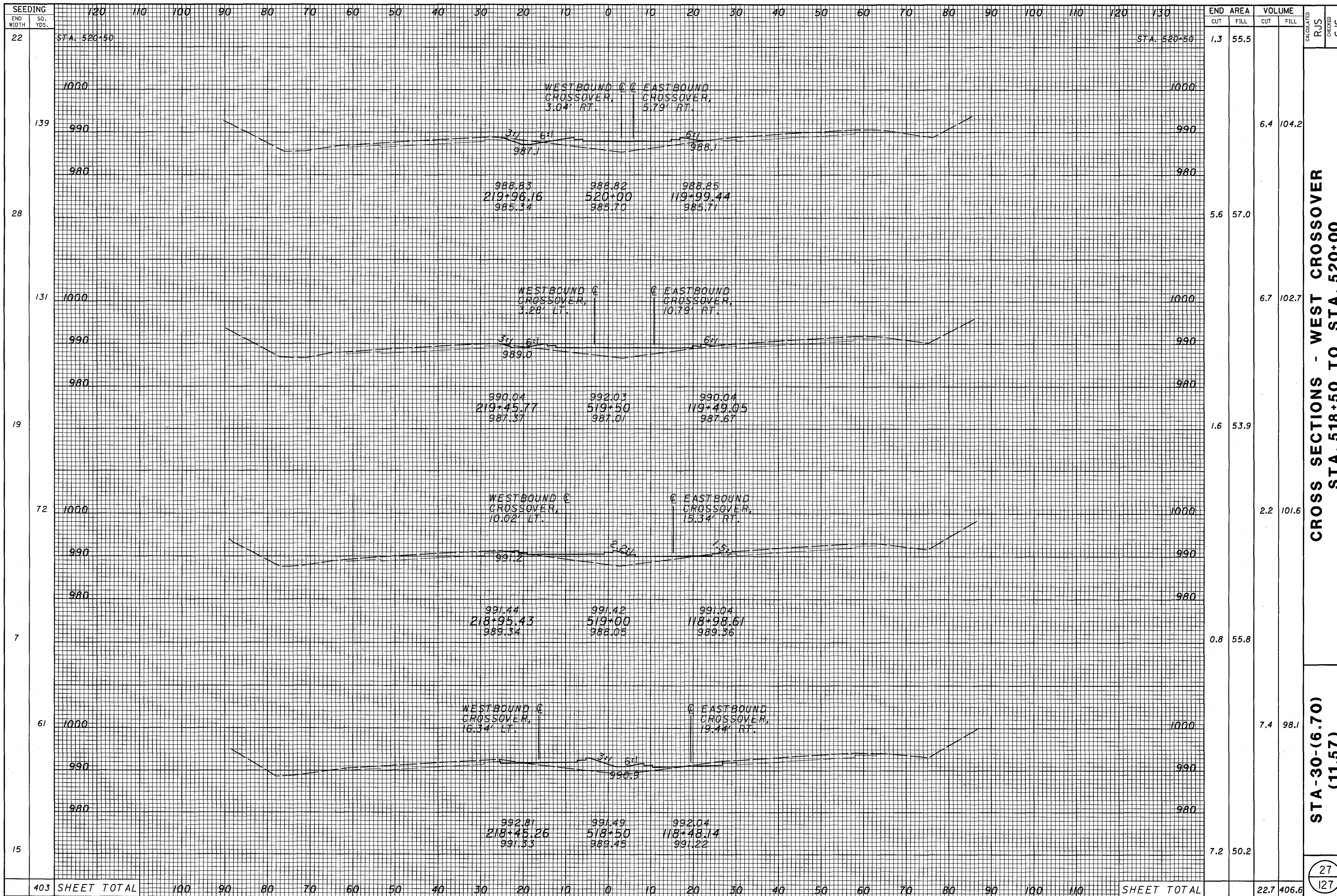
STA-30-(6.70)
(11.57)



END STA.	AREA		VOLUME		CALCULATED RJS	CHECKED SJS
	CUT	FILL	CUT	FILL		
15	7.2	50.2				
106			13.4	95.8		
23	7.3	53.3				
147			13.2	95.4		
30	7.0	49.7				
186			13.6	63.1		
37	7.7	18.5				
200			12.0	24.6		
35	5.3	8.1				
639	SHEET TOTAL		52.2	278.9		

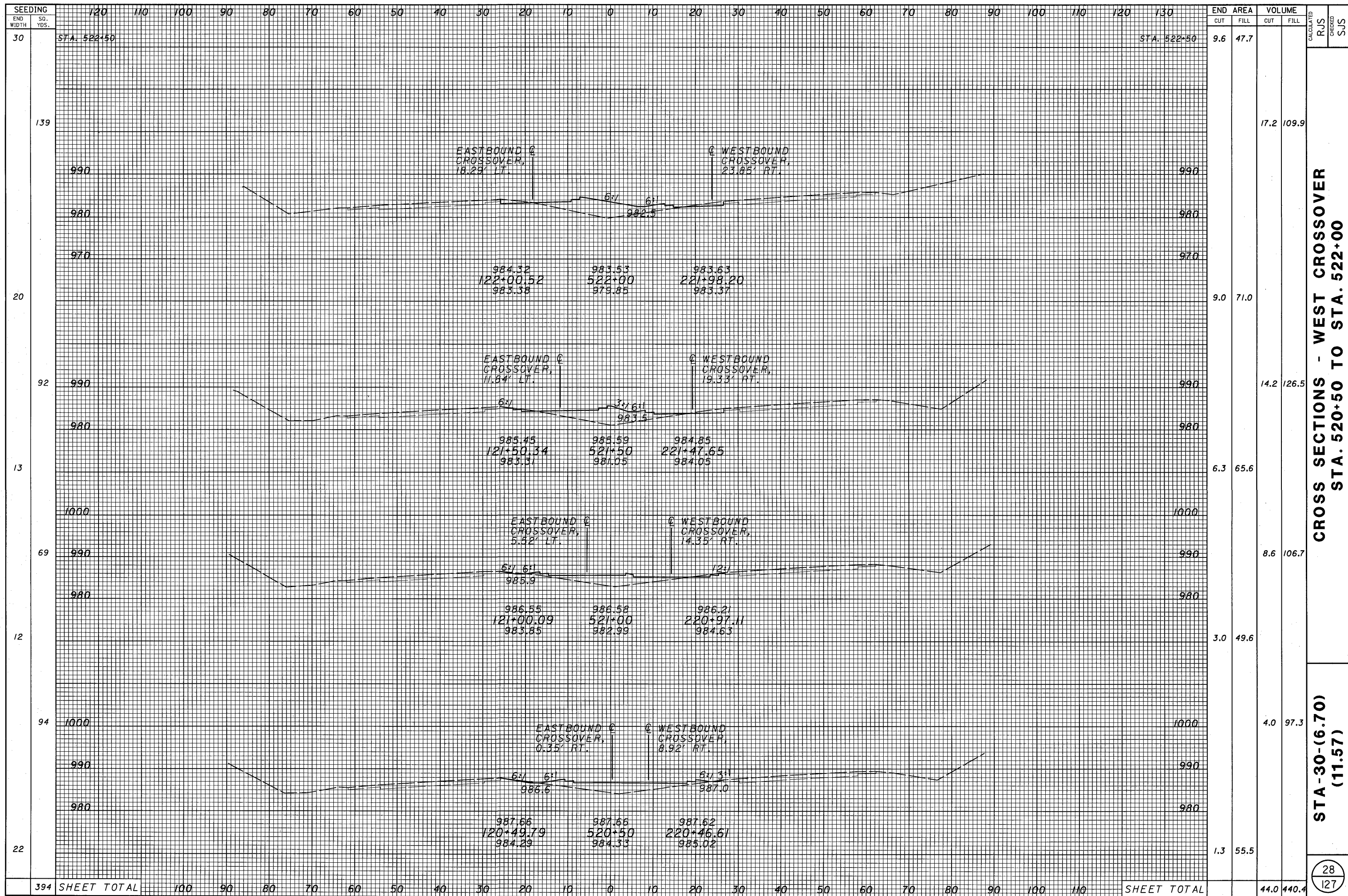
CROSS SECTIONS - WEST CROSSOVER
STA. 516+50 TO STA. 518+00

STA-30-(6.70)
(11.57)



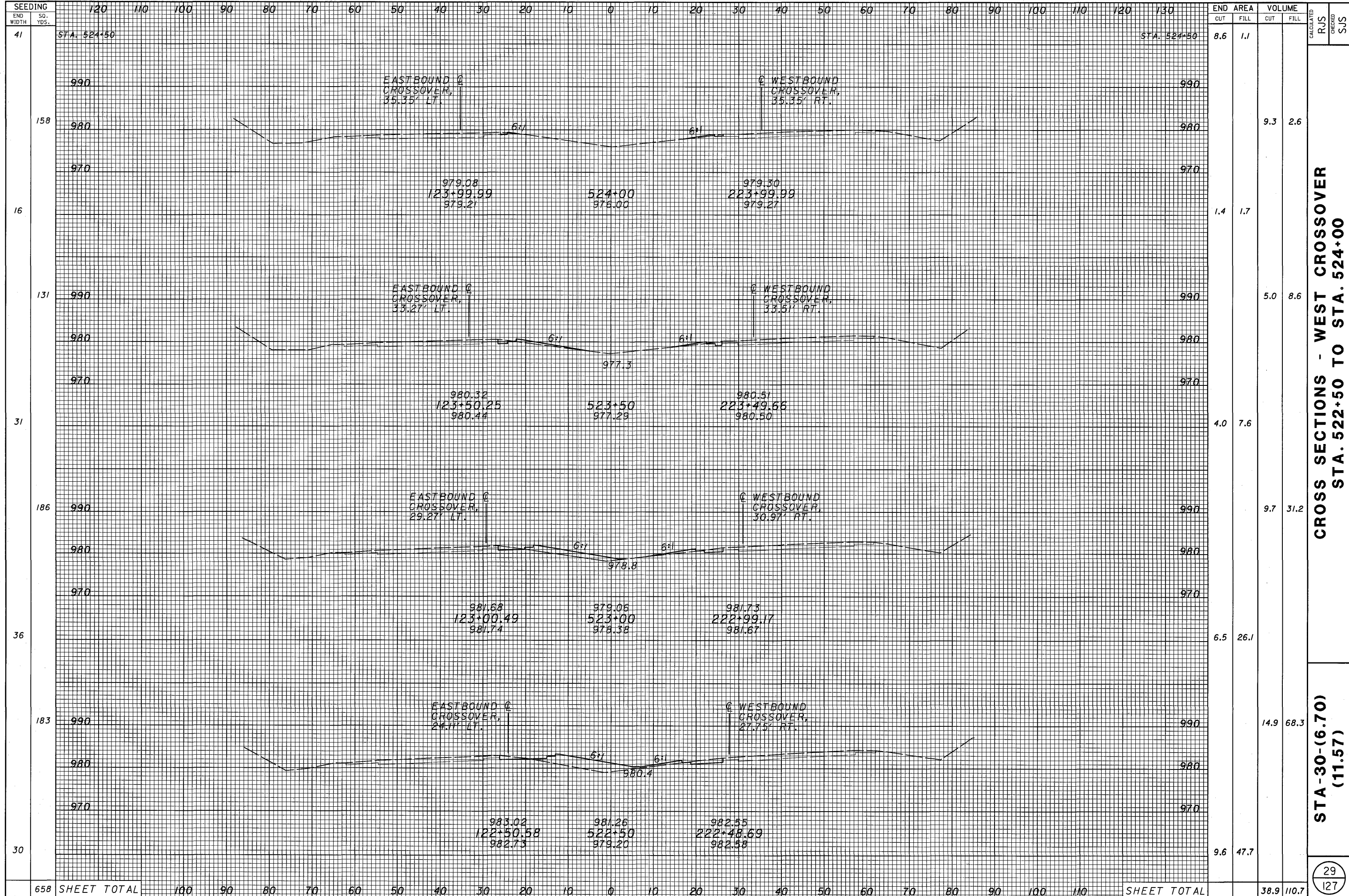
CROSS SECTIONS - WEST CROSSOVER
STA. 518+50 TO STA. 520+00

STA-30-(6.70)
(11.57)



CROSS SECTIONS - WEST CROSSOVER
STA. 520+50 TO STA. 522+00

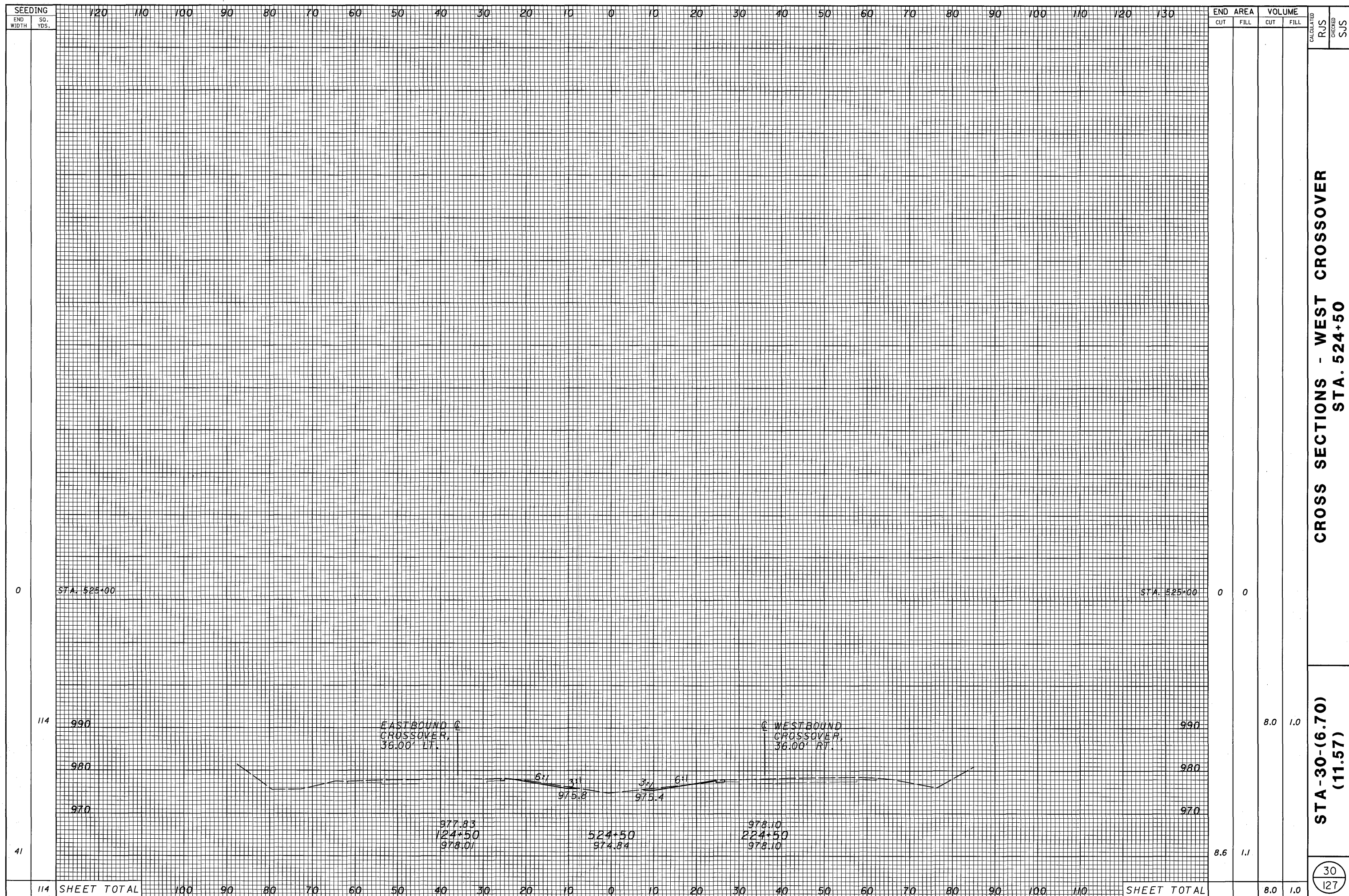
STA-30-(6.70)
(11.57)



END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED RJS	CHECKED SJS
		CUT	FILL	CUT	FILL		
41	STA. 524+50	8.6	1.1				
158				9.3	2.6		
16		1.4	1.7				
131				5.0	8.6		
31		4.0	7.6				
186				9.7	31.2		
36		6.5	26.1				
183				14.9	68.3		
30		9.6	47.7				
658	SHEET TOTAL			38.9	110.7		

CROSS SECTIONS - WEST CROSSOVER
STA. 522+50 TO STA. 524+00

STA-30-(6.70)
(11.57)



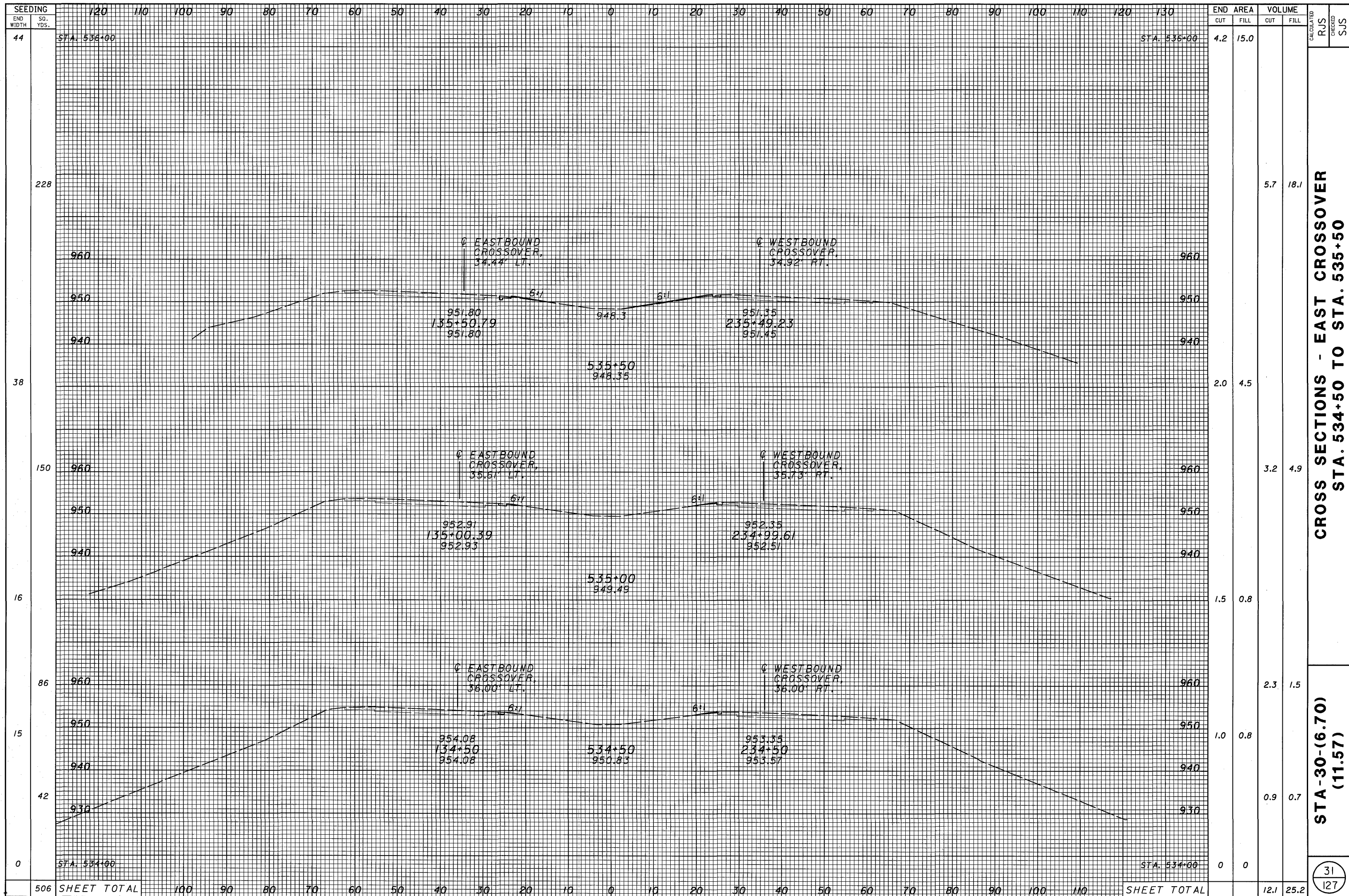
SEEDING		120	110	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120	130		
END WIDTH	SO. YDS.																												
0		STA. 525+00																										0	0
114		EASTBOUND C CROSSOVER, 36.00' LT. WESTBOUND C CROSSOVER, 36.00' RT.																										990	990
		977.83 124+50 978.01 974.84 524+50 974.84 978.10 224+50 978.10																										980	980
41																												970	970
114	SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	SHEET TOTAL	8.0	1.0			

END AREA		VOLUME		CALCULATED		CHECKED	
CUT	FILL	CUT	FILL	RJS	SJS	RJS	SJS
0	0	8.0	1.0				
8.6	1.1	8.0	1.0				

CROSS SECTIONS - WEST CROSSOVER
STA. 524+50

STA-30-(6.70)
(11.57)

30
 127



END AREA	VOLUME		CALCULATED	CHECKED
	CUT	FILL		
4.2	15.0			
		5.7	18.1	
2.0	4.5			
		3.2	4.9	
1.5	0.8			
		2.3	1.5	
1.0	0.8			
		0.9	0.7	
0	0			
		12.1	25.2	

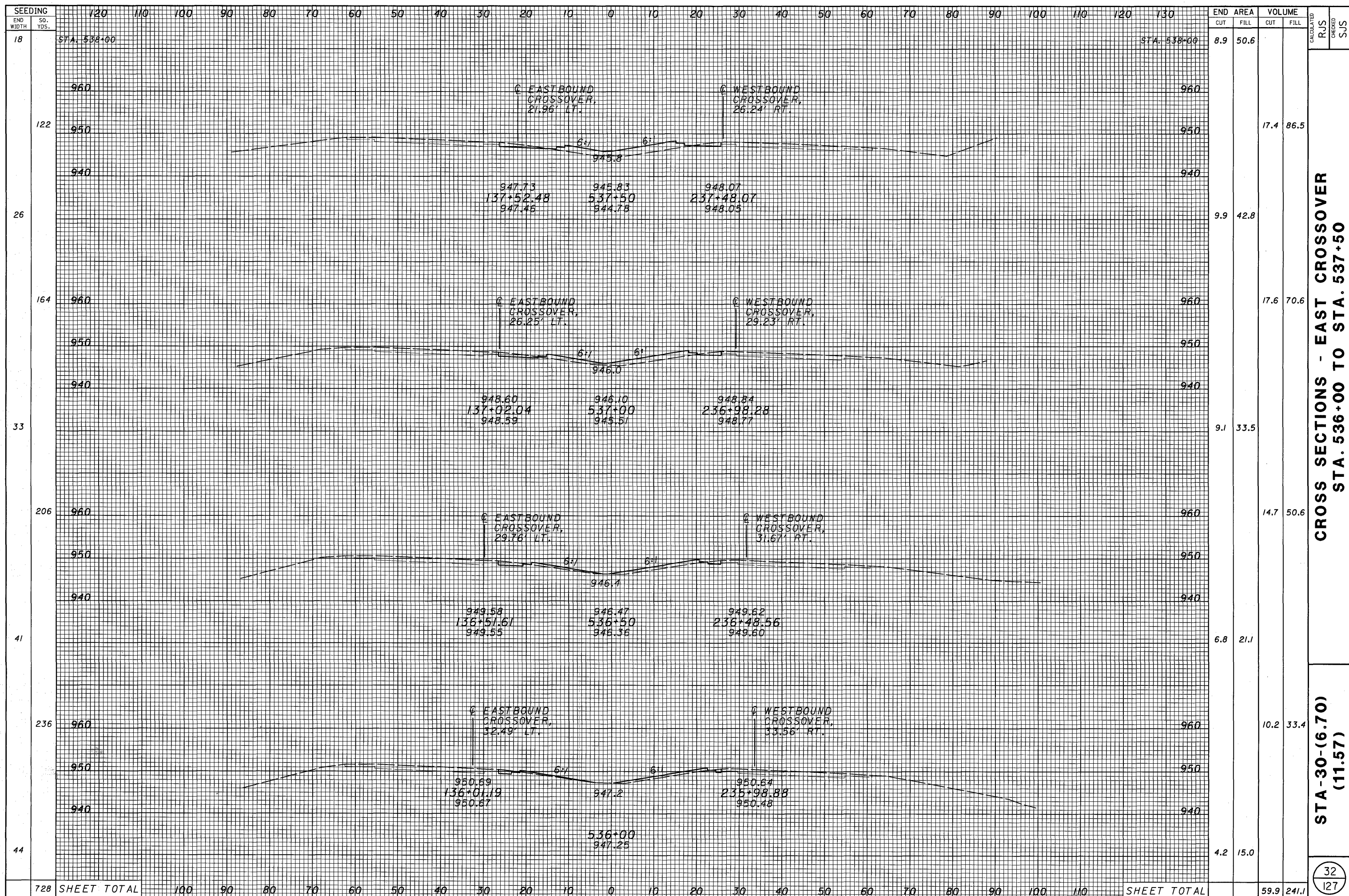
CROSS SECTIONS - EAST CROSSOVER
STA. 534+50 TO STA. 535+50

STA-30-(6.70)
(11.57)

31
 127

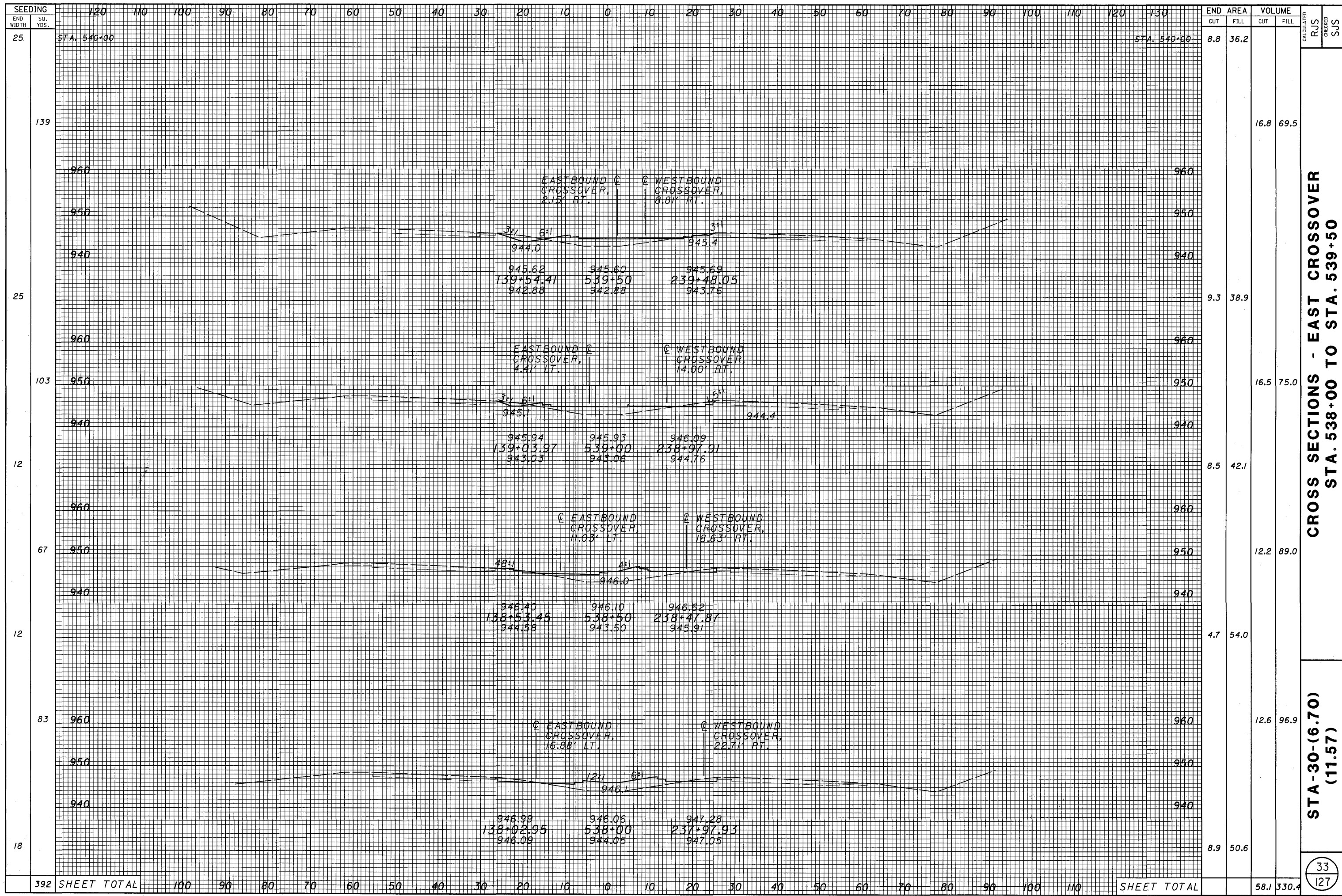
506 SHEET TOTAL

SHEET TOTAL



CROSS SECTIONS - EAST CROSSOVER
STA. 536+00 TO STA. 537+50

STA-30-(6.70)
(11.57)

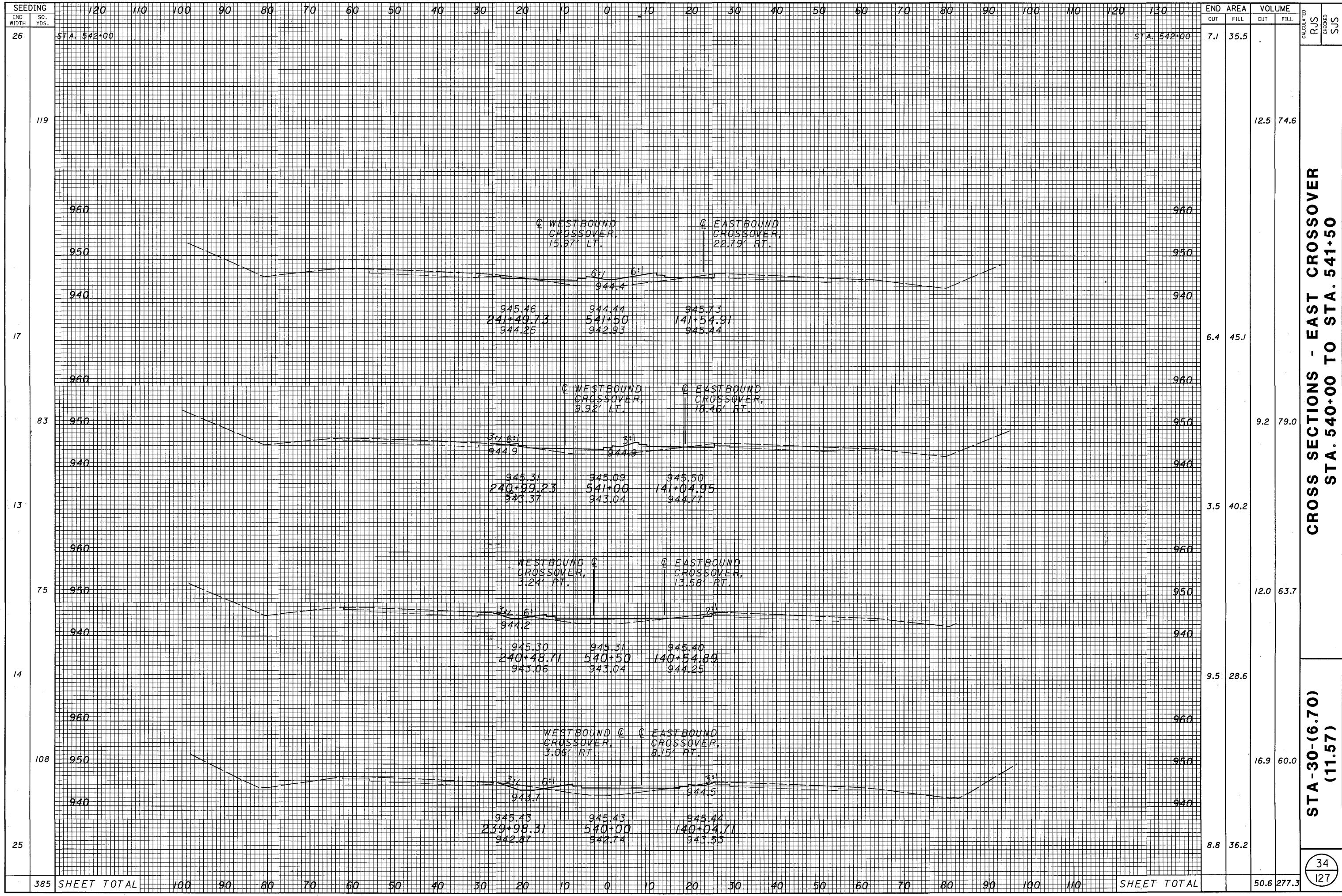


CROSS SECTIONS - EAST CROSSOVER
STA. 538+00 TO STA. 539+50

STA-30-(6.70)
(11.57)

CALCULATED
 RJS
 CHECKED
 SJS

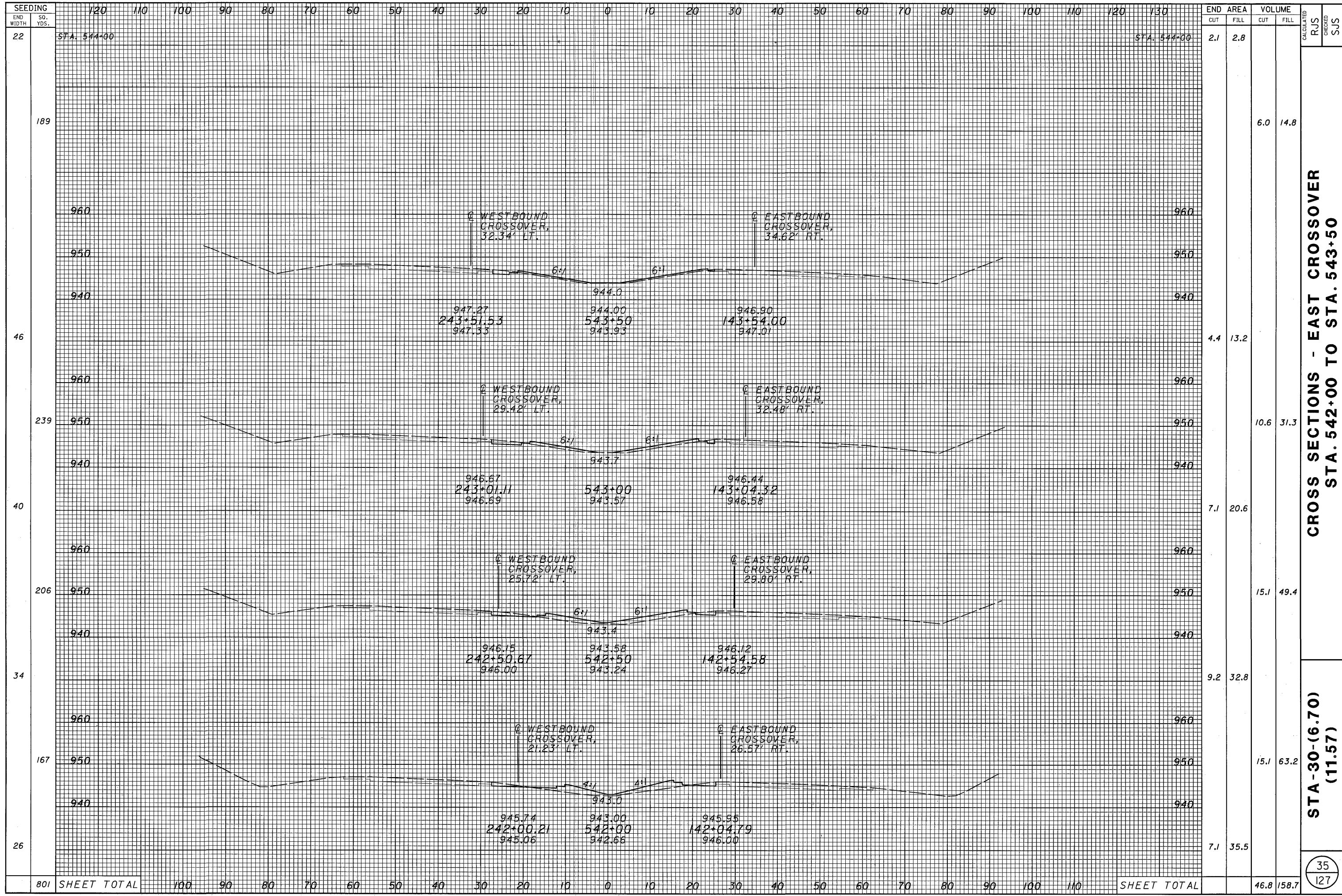
392	SHEET TOTAL	100	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	100	110	120	130	SHEET TOTAL	58.1	330.4
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CROSS SECTIONS - EAST CROSSOVER
STA. 540+00 TO STA. 541+50

STA-30-(6.70)
(11.57)

34
127

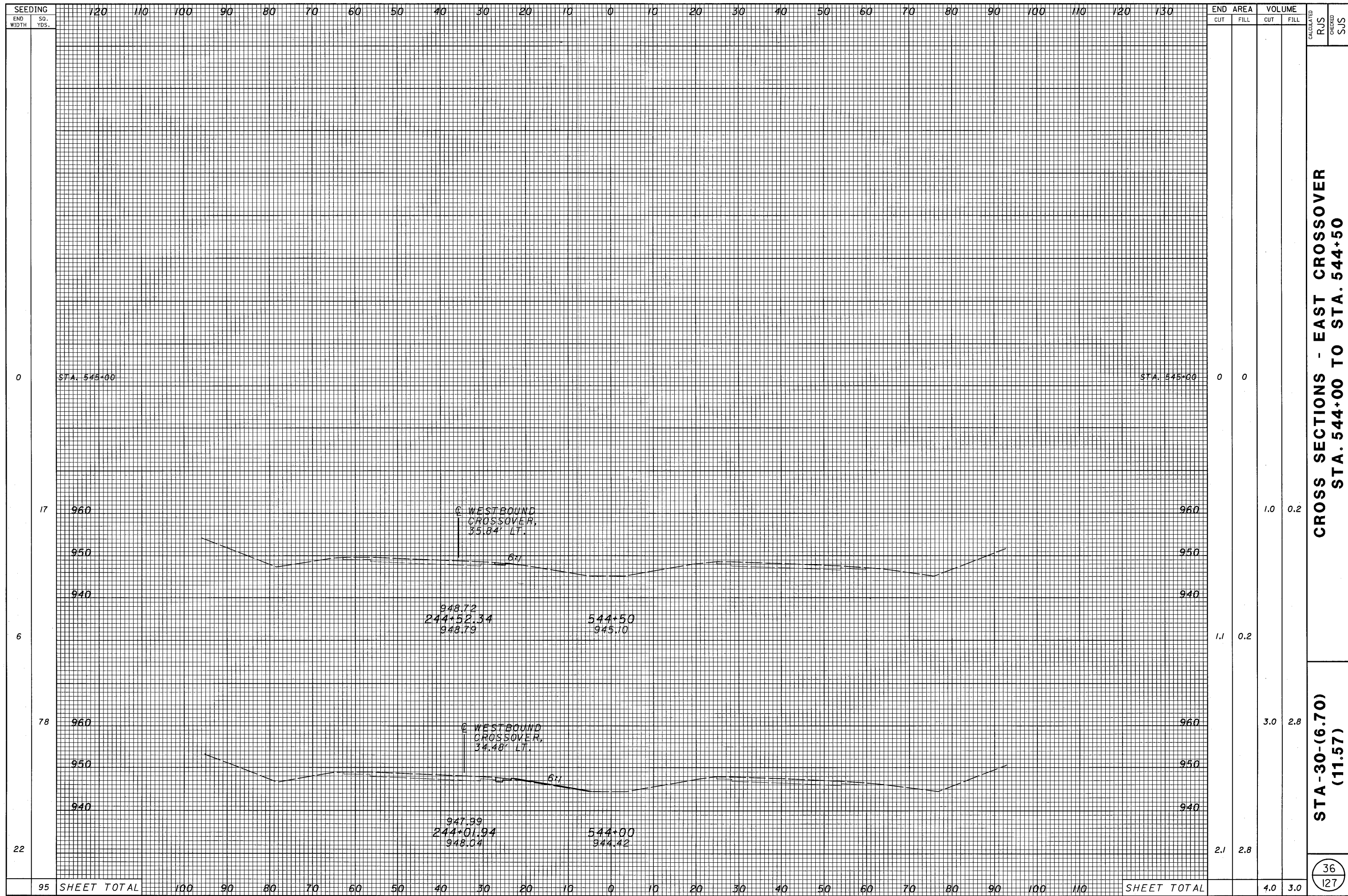


CROSS SECTIONS - EAST CROSSOVER
STA. 542+00 TO STA. 543+50

STA-30-(6.70)
(11.57)

CALCULATED
 RJS
 CHECKED
 SJS

35
 127



CROSS SECTIONS - EAST CROSSOVER
STA. 544+00 TO STA. 544+50

STA -30-(6.70)
(11.57)

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127

SUPERELEVATION TABLE

EASTBOUND, WEST END CROSSOVER, Dc = 3°00'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
1000.83		-0.58	-6.400%	9.00	114+82.52	1001.41						BEGIN WIDENING LT
1000.39		-0.58	-6.400%	9.00	115+00.00	1000.97						(MATCH EX SUPER)
999.75		-0.58	-6.400%	9.00	115+25.00	1000.33						
999.12		-0.58	-6.400%	9.00	115+50.00	999.70						
998.48		-0.58	-6.400%	9.00	115+75.00	999.06						
997.85		-0.58	-6.400%	9.00	116+00.00	998.43						
997.21		-0.58	-6.400%	9.00	116+25.00	997.79						
996.58		-0.58	-6.400%	9.00	116+50.00	997.16						
995.92		-0.58	-6.400%	9.00	116+75.00	996.50						
995.27		-0.58	-6.400%	9.00	117+00.00	995.85						
994.61		-0.58	-6.400%	9.00	117+25.00	995.19						
994.17	326:1	-0.58	-6.400%	9.00	117+41.73	994.75						BEGIN PROFILE
993.96	326:1	-0.55	-6.118%	9.00	117+50.00	994.51						
993.33	326:1	-0.47	-5.266%	9.00	117+75.00	993.80						
992.75	326:1	-0.40	-4.414%	9.00	118+00.00	993.15						
992.23	326:1	-0.32	-3.563%	9.00	118+25.00	992.55						
991.76	326:1	-0.24	-2.711%	9.00	118+50.00	992.00						
991.40	339:1	-0.18	-2.000%	9.00	118+70.86	991.58	9.00	2.000%	0.18	339:1	991.76	BEGIN FULL WIDTH RT
991.33	339:1	-0.17	-1.864%	9.00	118+75.00	991.50	9.00	1.864%	0.17	339:1	991.67	
990.92	339:1	-0.09	-1.044%	9.00	119+00.00	991.01	9.00	1.044%	0.09	339:1	991.10	
990.50	339:1	-0.02	-0.224%	9.00	119+25.00	990.52	9.00	0.224%	0.02	339:1	990.54	
990.38	339:1	0.00	0.000%	9.00	119+31.82	990.38	9.00	0.000%	0.00	339:1	990.38	BEGIN XO LT
990.03		0.00	0.000%	9.00	119+50.00	990.03	9.00	0.000%	0.00		990.03	
989.43		0.00	0.000%	9.00	119+75.00	989.43	9.00	0.000%	0.00		989.43	
988.84		0.00	0.000%	9.00	120+00.00	988.84	9.00	0.000%	0.00		988.84	
988.59		0.00	0.000%	9.00	120+10.69	988.59	9.00	0.000%	0.00		988.59	BEGIN XO RT
988.56		0.00	0.000%	9.00	120+11.69	988.56	9.00	0.000%	0.00		988.56	INTERSECTS
988.54		0.00	0.000%	9.00	120+12.72	988.54	9.00	0.000%	0.00		988.54	END XO LT
988.25		0.00	0.000%	9.00	120+25.00	988.25	9.00	0.000%	0.00		988.25	
987.66		0.00	0.000%	9.00	120+50.00	987.66	9.00	0.000%	0.00		987.66	
987.11		0.00	0.000%	9.00	120+75.00	987.11	9.00	0.000%	0.00		987.11	
986.75	418:1	0.00	0.000%	9.00	120+91.20	986.75	9.00	0.000%	0.00	418:1	986.75	END XO RT
986.54	418:1	-0.02	-0.234%	9.00	121+00.00	986.56	9.00	0.234%	0.02	418:1	986.58	
985.93	418:1	-0.08	-0.898%	9.00	121+25.00	986.01	9.00	0.898%	0.08	418:1	986.09	
985.32	418:1	-0.14	-1.562%	9.00	121+50.00	985.46	9.00	1.562%	0.14	418:1	985.60	
984.91	418:1	-0.18	-2.006%	9.00	121+66.71	985.09	9.00	2.006%	0.18	418:1	985.27	PT
984.71	418:1	-0.20	-2.227%	9.00	121+75.00	984.91	9.00	2.227%	0.20	418:1	985.11	
984.37	418:1	-0.23	-2.590%	9.00	121+88.68	984.60	9.00	2.590%	0.23	418:1	984.83	END FULL
					122+00.00	984.34	9.00	2.590%	0.23		984.57	WIDTH LT
					122+25.00	983.68	9.00	2.590%	0.23		983.91	(MATCH EX SUPER)
					122+50.00	983.03	9.00	2.590%	0.23		983.26	
					122+71.15	982.48	9.00	2.590%	0.23		982.71	END PROFILE
					122+75.00	982.38	9.00	2.590%	0.23		982.61	
					122+96.85	981.78	9.00	2.590%	0.23		982.01	PC
					123+00.00	981.69	9.00	2.590%	0.23		981.92	
					123+25.00	981.01	9.00	2.590%	0.23		981.24	
					123+50.00	980.32	9.00	2.590%	0.23		980.55	
					123+75.00	979.70	9.00	2.590%	0.23		979.93	
					123+88.23	979.37	9.00	2.590%	0.23		979.60	END WIDENING RT

SUPERELEVATION TABLE

WESTBOUND, WEST END CROSSOVER, Dc = 3°00'00"

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
					216+17.81	997.44	9.00	6.400%	0.58		998.02	BEGIN WIDENING RT
					216+25.00	997.28	9.00	6.400%	0.58		997.86	(MATCH EX SUPER)
					216+50.00	996.73	9.00	6.400%	0.58		997.31	
					216+75.00	996.18	9.00	6.400%	0.58		996.76	
					217+00.00	995.63	9.00	6.400%	0.58		996.21	
					217+25.00	995.28	9.00	6.400%	0.58		995.86	
					217+50.00	994.87	9.00	6.400%	0.58	235:1	995.55	
					217+52.52	994.83	9.00	6.281%	0.57	235:1	995.40	BEGIN PROFILE
					217+75.00	994.41	9.00	5.220%	0.47	235:1	994.88	
					218+00.00	993.89	9.00	4.040%	0.36	235:1	994.25	
					218+25.00	993.32	9.00	2.861%	0.26	235:1	993.58	
992.69	476:1	-0.18	-2.000%	9.00	218+43.24	992.87	9.00	2.000%	0.18	476:1	993.05	BEGIN FULL WIDTH LT
992.52	476:1	-0.17	-1.842%	9.00	218+50.00	992.69	9.00	1.842%	0.17	476:1	992.86	
991.90	476:1	-0.11	-1.259%	9.00	218+75.00	992.01	9.00	1.259%	0.11	476:1	992.12	
991.25	476:1	-0.06	-0.675%	9.00	219+00.00	991.31	9.00	0.675%	0.06	476:1	991.37	
991.17	476:1	-0.05	-0.600%	9.00	219+03.23	991.22	9.00	0.600%	0.05	476:1	991.27	PC
991.02	476:1	-0.04	-0.459%	9.00	219+09.28	991.06	9.00	0.459%	0.04	476:1	991.10	
990.61	476:1	-0.01	-0.092%	9.00	219+25.00	990.62	9.00	0.092%	0.01	476:1	990.63	
990.51	476:1	0.00	0.000%	9.00	219+28.94	990.51	9.00	0.000%	0.00	476:1	990.51	BEGIN XO RT
989.94		0.00	0.000%	9.00	219+50.00	989.94	9.00	0.000%	0.00		989.94	
989.34		0.00	0.000%	9.00	219+75.00	989.34	9.00	0.000%	0.00		989.34	
988.74		0.00	0.000%	9.00	220+00.00	988.74	9.00	0.000%	0.00		988.74	
988.56		0.00	0.000%	9.00	220+07.41	988.56	9.00	0.000%	0.00		988.56	BEGIN XO LT
988.54		0.00	0.000%	9.00	220+08.44	988.54	9.00	0.000%	0.00		988.54	INTERSECTS
988.52		0.00	0.000%	9.00	220+09.45	988.52	9.00	0.000%	0.00		988.52	END XO RT
988.14		0.00	0.000%	9.00	220+25.00	988.14	9.00	0.000%	0.00		988.14	
987.53		0.00	0.000%	9.00	220+50.00	987.53	9.00	0.000%	0.00		987.53	
986.83		0.00	0.000%	9.00	220+75.00	986.83	9.00	0.000%	0.00		986.83	
986.46	242:1	0.00	0.000%	9.00	220+88.31	986.46	9.00	0.000%	0.00	242:1	986.46	END XO LT
986.08	242:1	-0.05	-0.537%	9.00	221+00.00	986.13	9.00	0.537%	0.05	242:1	986.18	
985.30	242:1	-0.15	-1.685%	9.00	221+25.00	985.45	9.00	1.685%	0.15	242:1	985.60	
985.08	441:1	-0.18	-2.000%	9.00	221+31.85	985.26	9.00	2.000%	0.18	242:1	985.44	END FULL WIDTH RT
984.57	441:1	-0.22	-2.458%	9.00	221+50.00	984.79						(MATCH EX SUPER)
983.89	441:1	-0.28	-3.088%	9.00	221+75.00	984.17						
983.67	239:1	-0.30	-3.300%	9.00	221+83.39	983.97						
983.22	239:1	-0.37	-4.073%	9.00	222+00.00	983.59						
982.57	239:1	-0.47	-5.237%	9.00	222+25.00	983.04						
982.43	239:1	-0.49	-5.496%	9.00	222+30.58	982.92						END PROFILE
981.94	413:1	-0.58	-6.400%	9.00	222+50.00	982.52						
981.60	413:1	-0.52	-5.728%	9.00	222+75.00	982.12						
981.27	413:1	-0.45	-5.055%	9.00	223+00.00	981.72						
980.72	413:1	-0.39	-4.383%	9.00	223+25.00	981.11						
980.17	413:1	-0.33	-3.710%	9.00	223+50.00	980.50						
979.63	413:1	-0.27	-3.038%	9.00	223+75.00	979.90						
979.09	413:1	-0.21	-2.366%	9.00	224+00.00	979.30						
979.02	413:1	-0.21	-2.292%	9.00	224+02.74	979.23						END WIDENING LT

WEST CROSSOVER SUPERELEVATION TABLE

STA-30-(6.70) (11.57)

CALCULATED SJS
CHECKED SMM

SUPERELEVATION TABLE

EASTBOUND, EAST END CROSSOVER, Dc = 3°00'00"

Table with columns: LEFT SIDE (EDGE ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH), CENTERLINE CONTROL (STATION, PROFILE GRADE), RIGHT SIDE (WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, EDGE ELEVATION), and REMARKS. Data rows include stationing from 135+16.77 to 143+40.94.

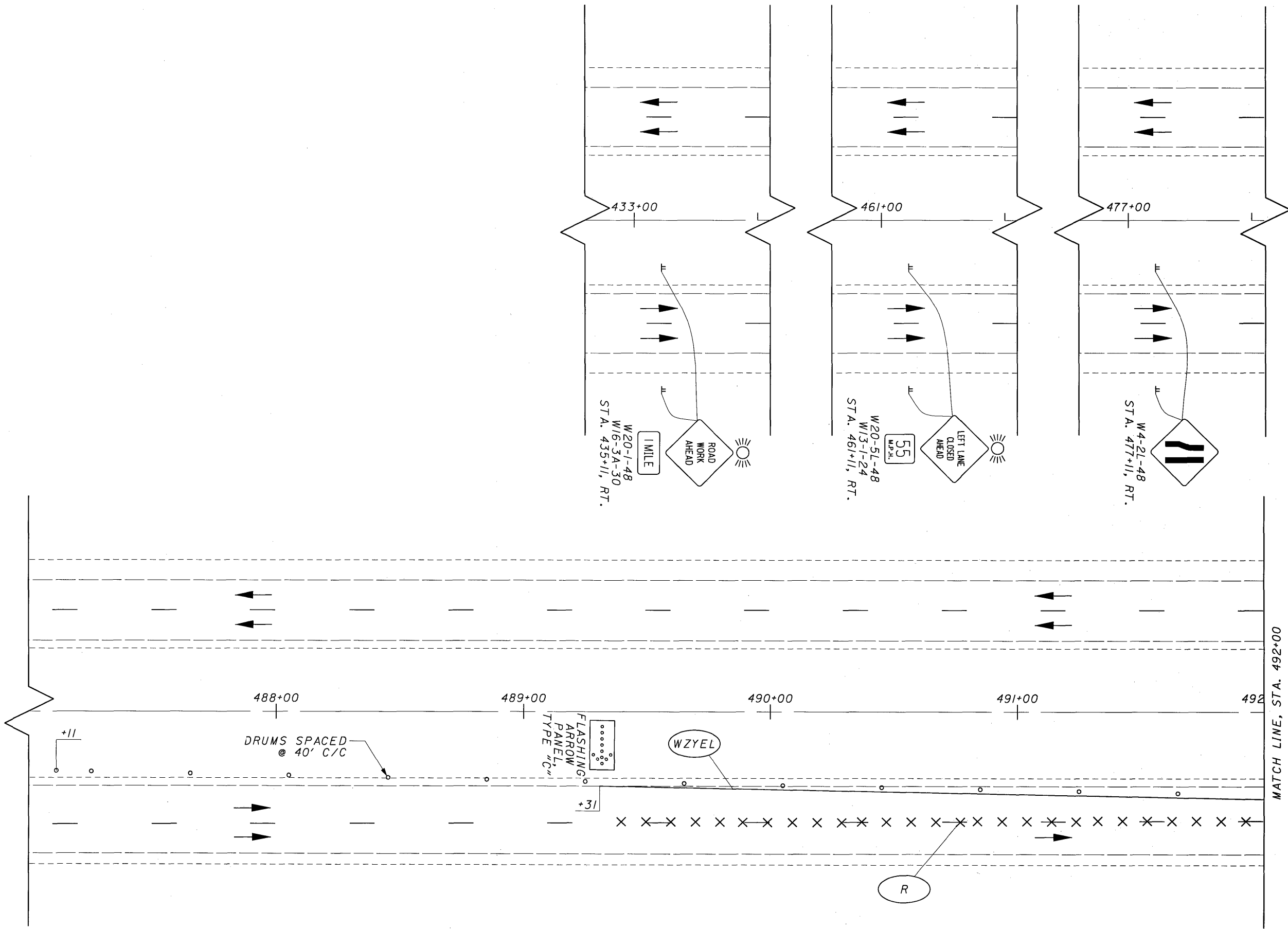
SUPERELEVATION TABLE

WESTBOUND, EAST END CROSSOVER, Dc = 3°00'00"

Table with columns: LEFT SIDE (EDGE ELEVATION, TRANSITION RATE, ELEVATION CORRECTION, CROSS SLOPE, WIDTH), CENTERLINE CONTROL (STATION, PROFILE GRADE), RIGHT SIDE (WIDTH, CROSS SLOPE, ELEVATION CORRECTION, TRANSITION RATE, EDGE ELEVATION), and REMARKS. Data rows include stationing from 235+54.67 to 244+80.47.

EAST CROSSOVER SUPERELEVATION TABLE

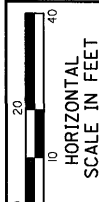
STA-30-(6.70) (11.57)



CALCULATED: SMM
 CHECKED: MOW

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 492+00 TO STA. 503+00

STA-30-(6.70)
(11.57)

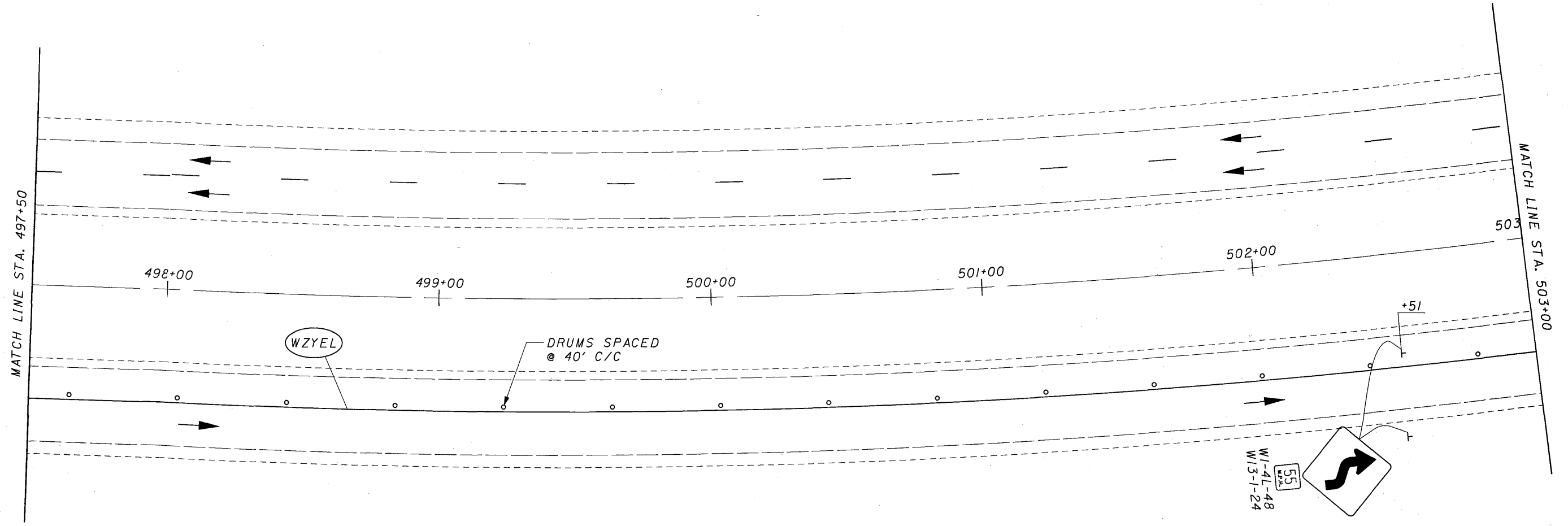
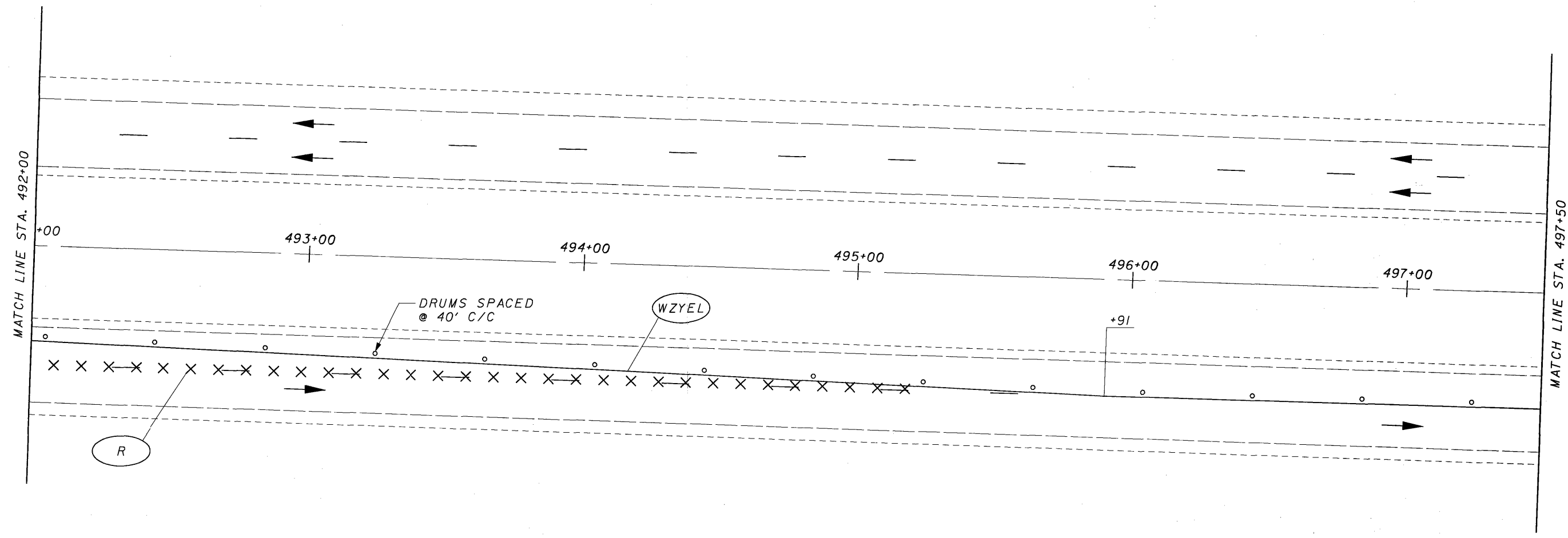


CALCULATED SMM
CHECKED MOW

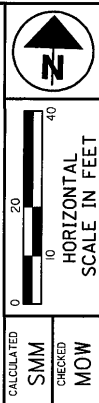
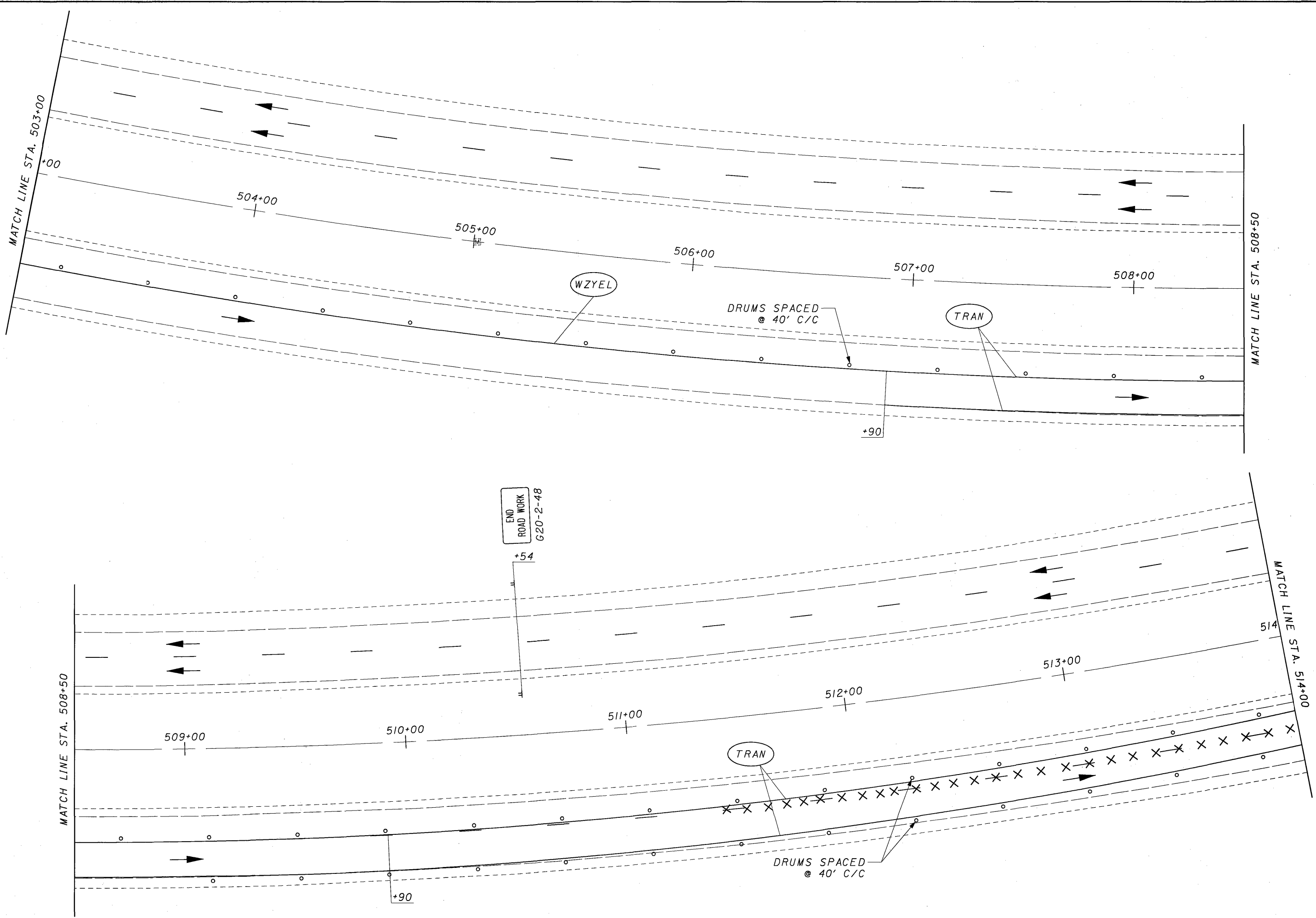
MAINTENANCE OF TRAFFIC - PHASE 1
STA. 492+00 TO STA. 503+00

STA-30-(6.70)
(11.57)

40
127

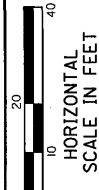


55
W
W1-4L-48
W13-1-24



CALCULATED SMM
 CHECKED MOW
MAINTENANCE OF TRAFFIC - PHASE 1
STA. 503+00 TO STA. 514+00

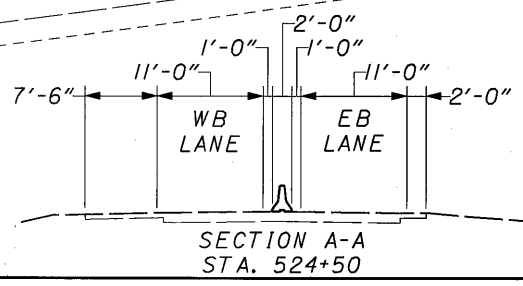
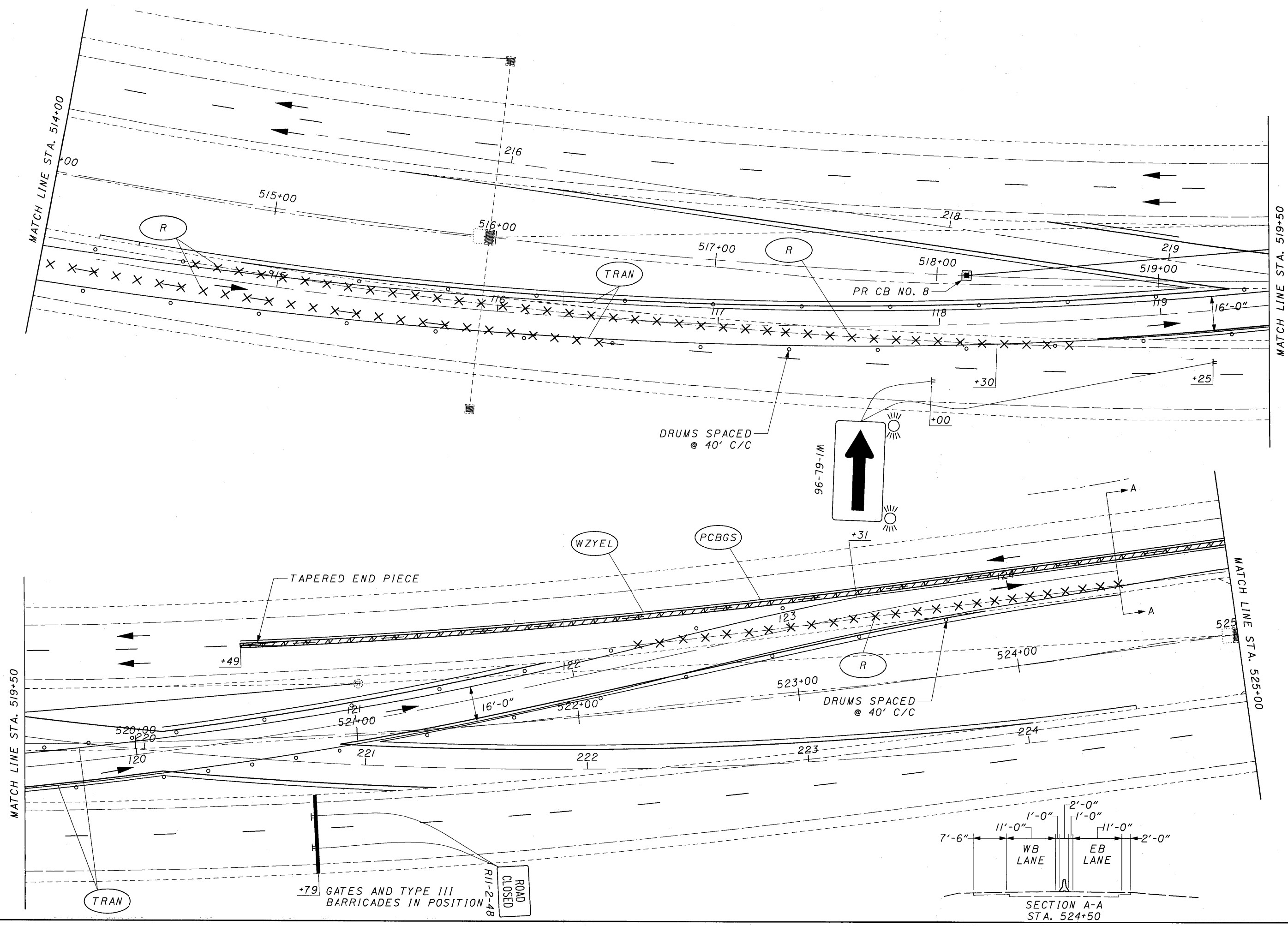
STA-30-(6.70)
(11.57)



CALCULATED SMM CHECKED MOW

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 514+00 TO STA. 525+00

STA-30-(6.70)
(11.57)



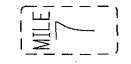
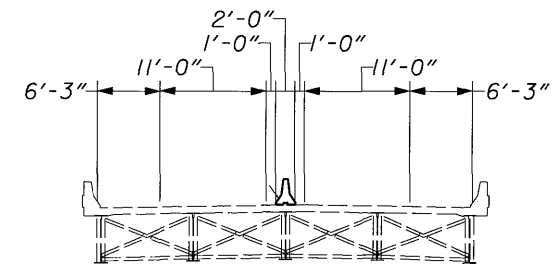
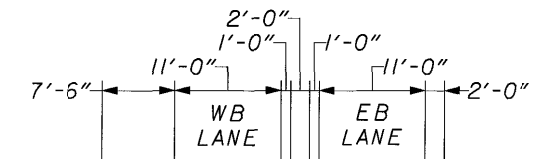
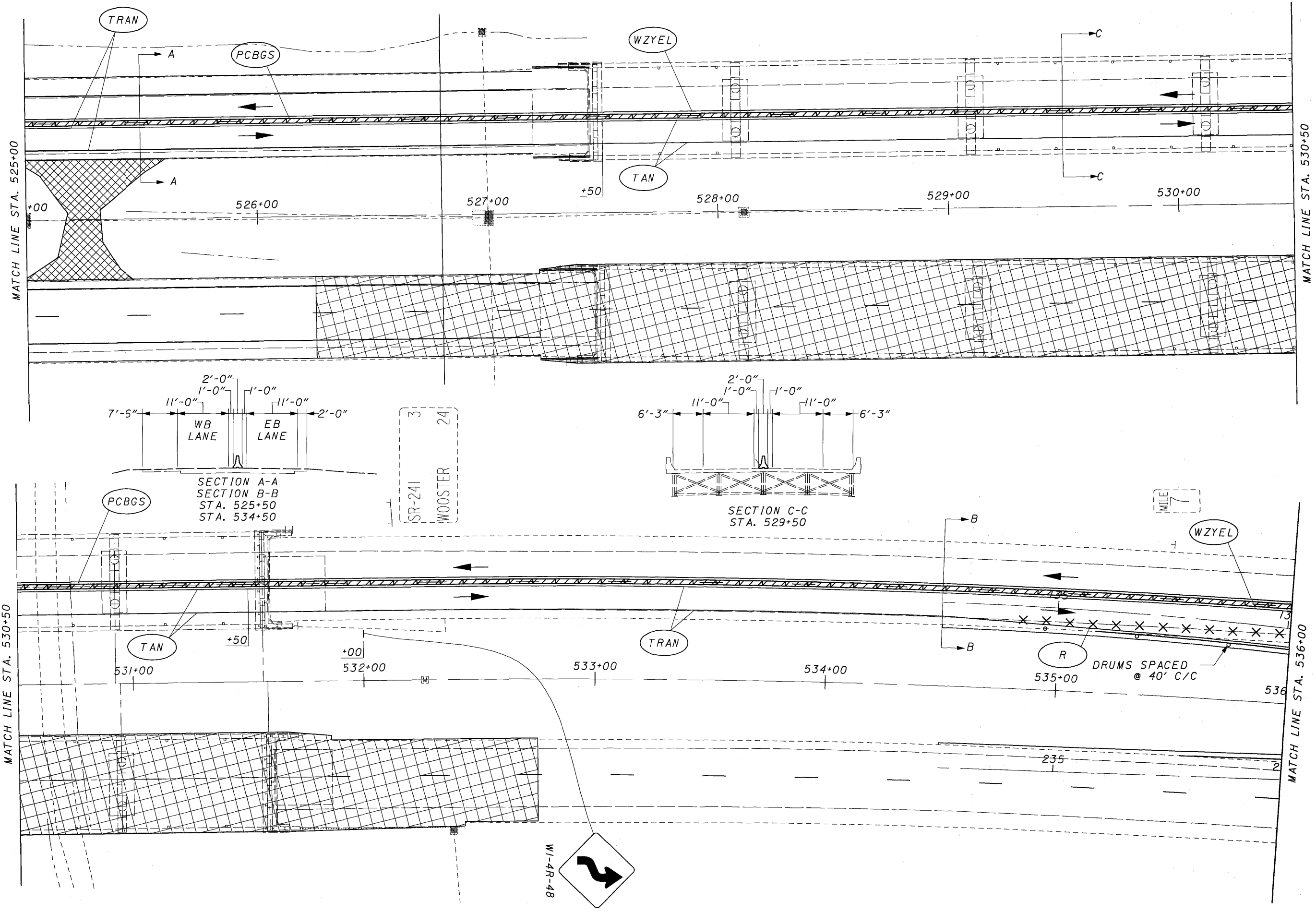


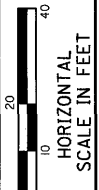
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED SMM CHECKED MOW

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 525+00 TO STA. 536+00

STA-30-(6.70)
(11.57)



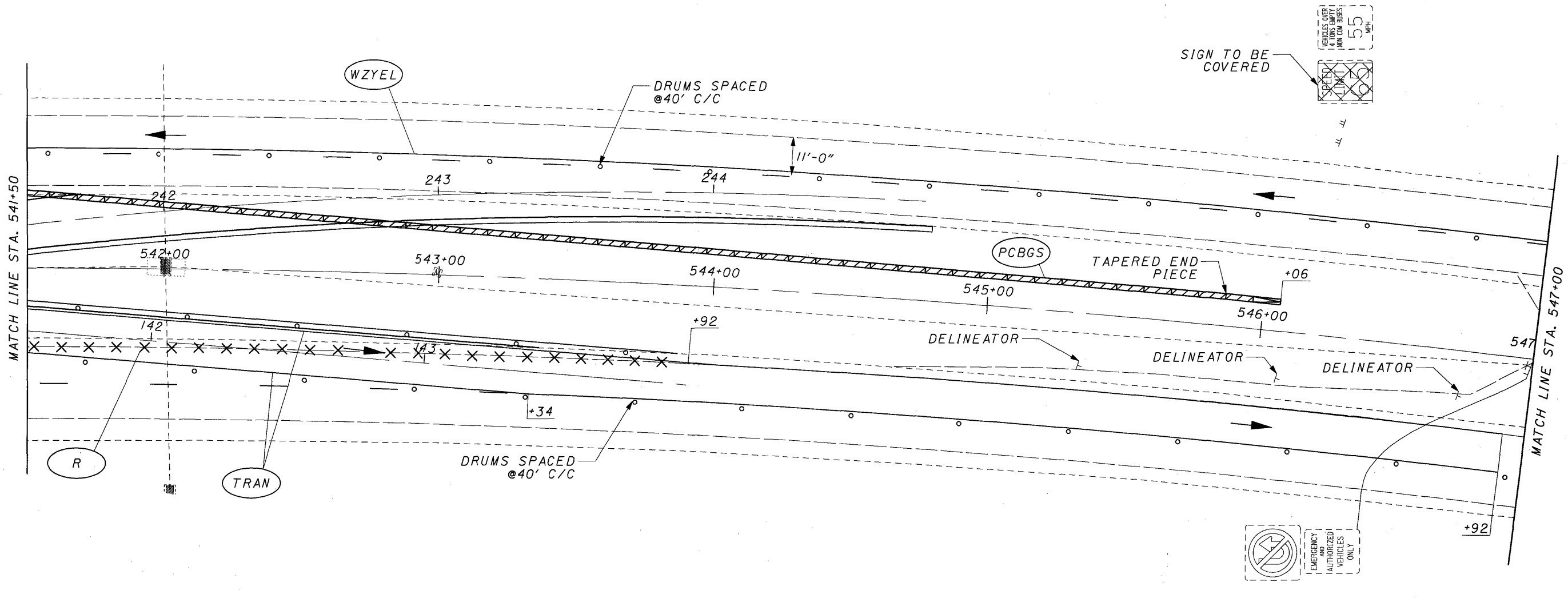
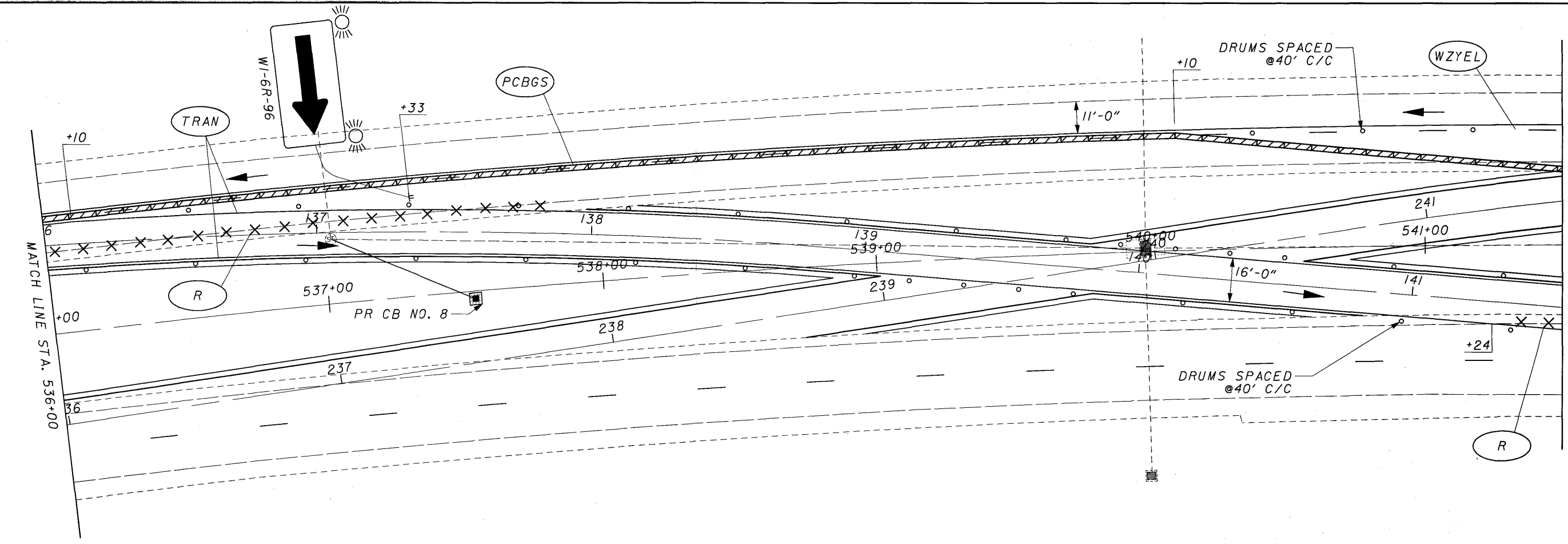


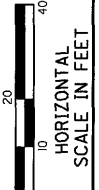
CALCULATED
SMM
CHECKED
MOW

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 536+00 TO STA. 547+00

STA-30-(6.70)
(11.57)

44
127

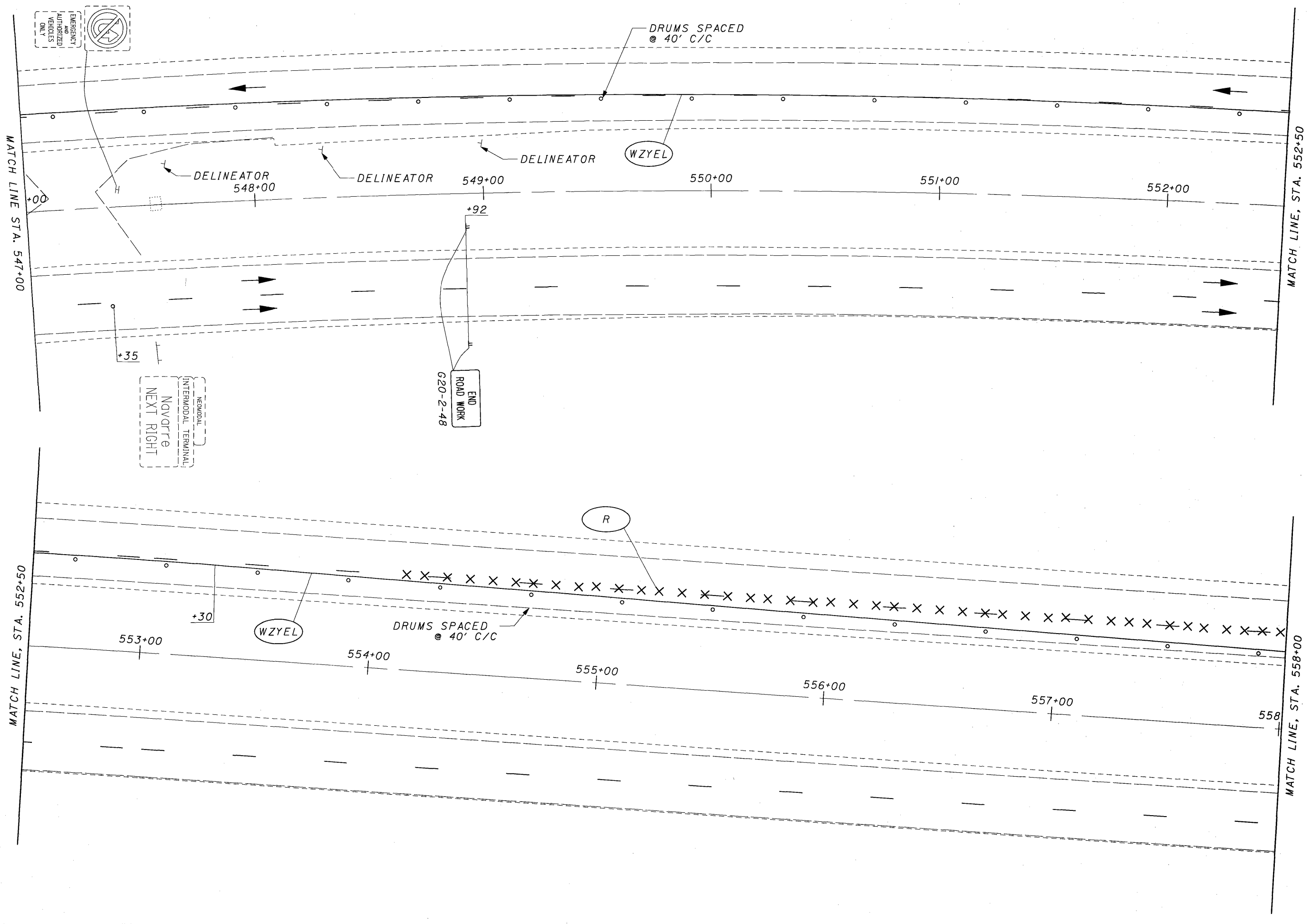




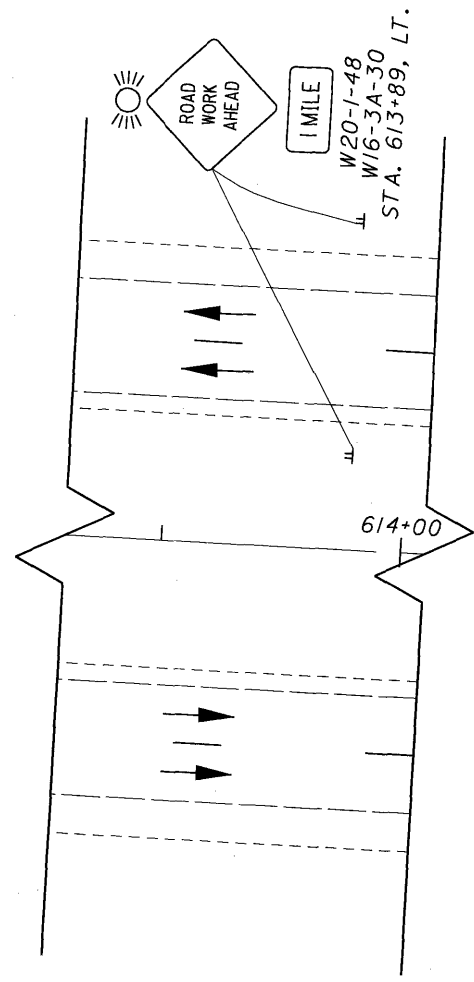
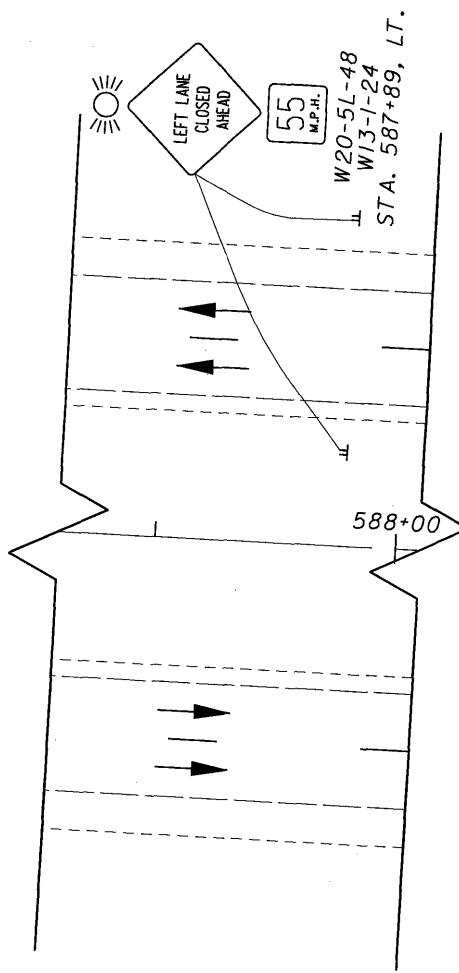
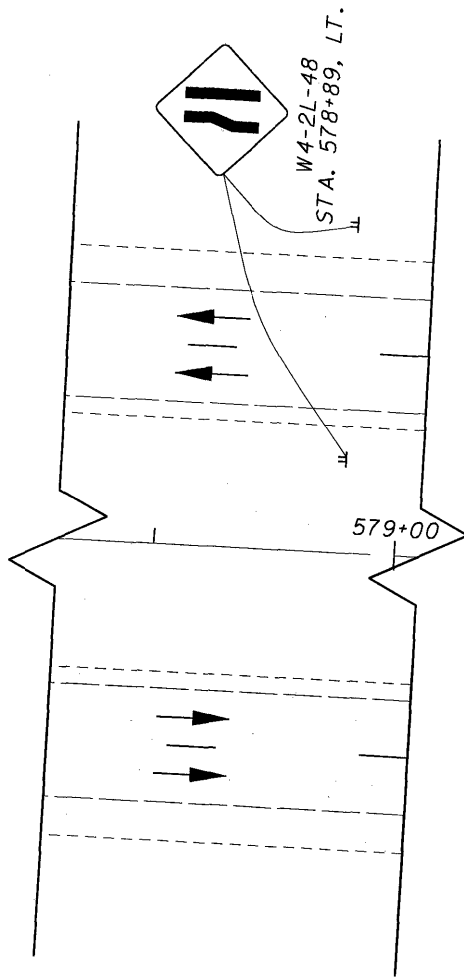
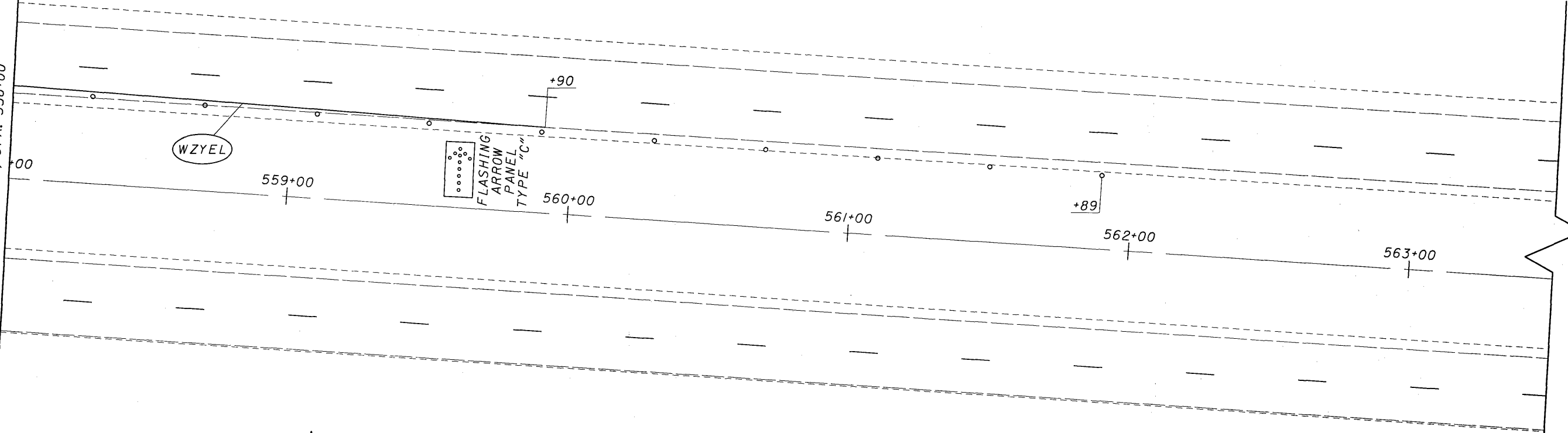
CALCULATED
SMM
CHECKED
MOW

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 547+00 TO STA. 558+00

STA-30-(6.70)
(11.57)



MATCH LINE, STA. 558+00

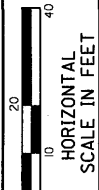
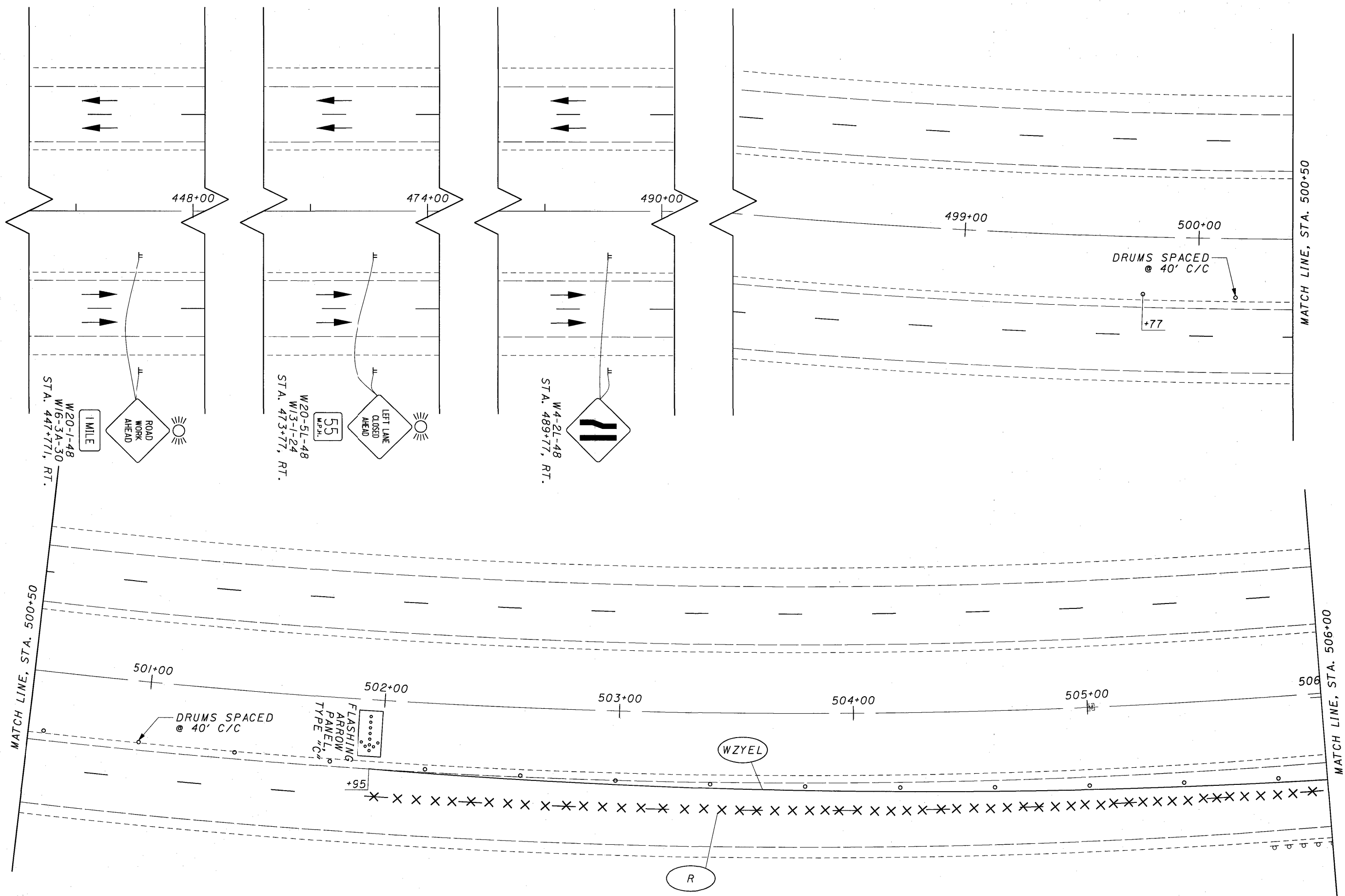


STA-30-(6.70)
(11.57)

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 558+00 TO STA. 612+10

CALCULATED
SMM
CHECKED
MOW

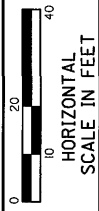




CALCULATED SMM
CHECKED MOW

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 447+30 TO STA. 506+00

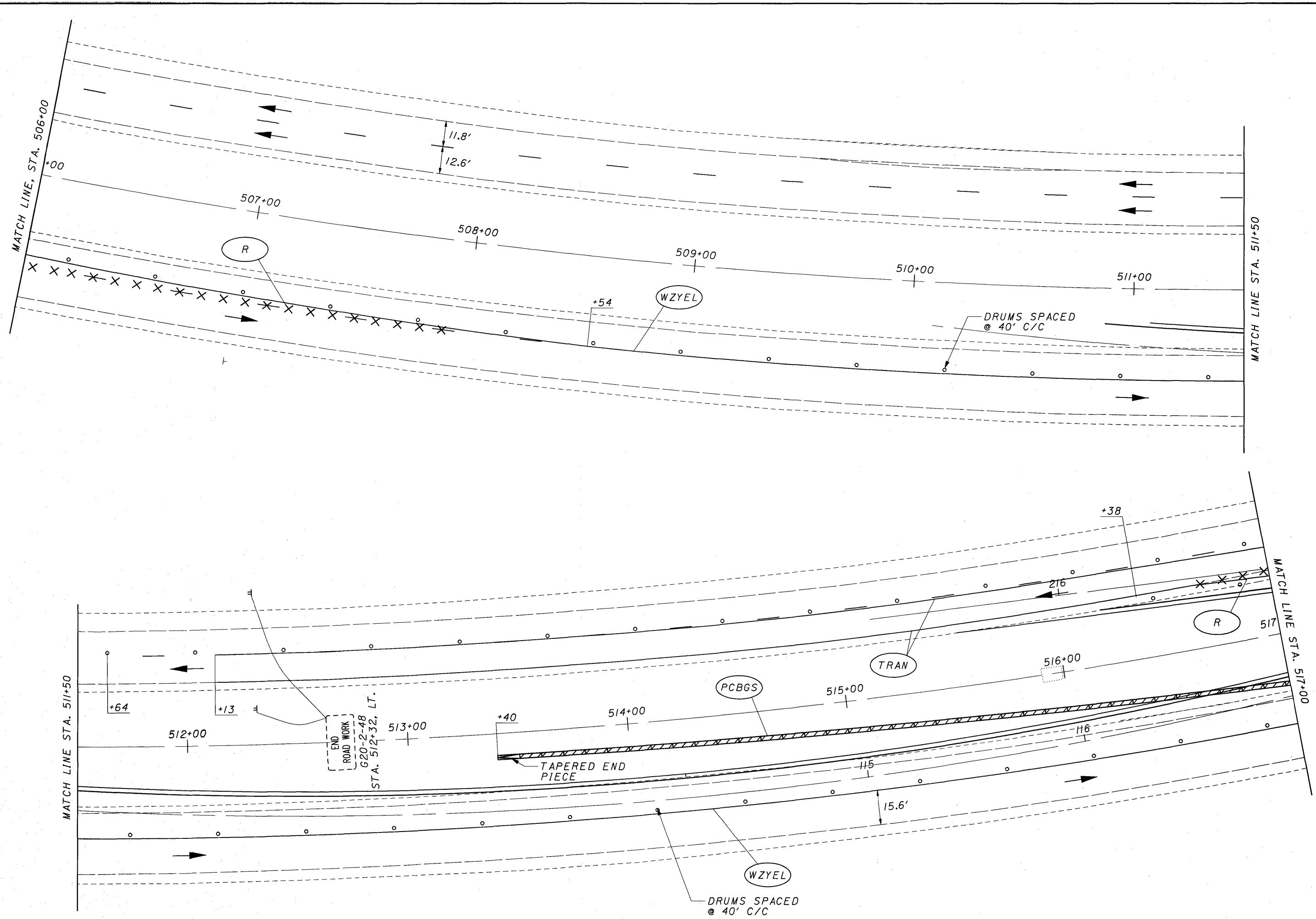
STA-30-(6.70)
(11.57)

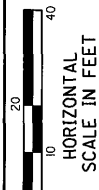


CALCULATED
SMM
CHECKED
MOW

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 506+00 TO STA. 517+00

STA-30-(6.70)
(11.57)

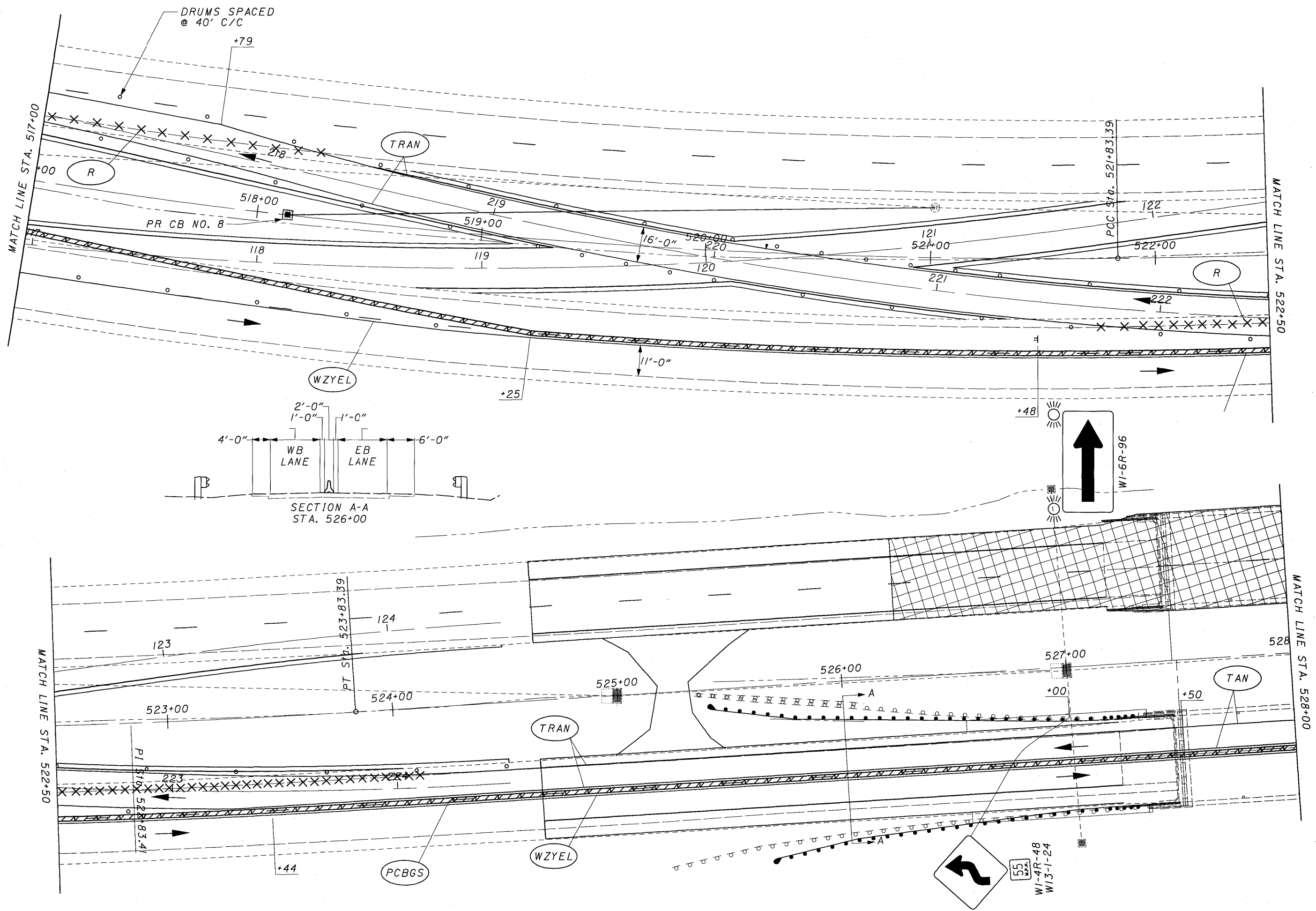


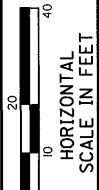


CALCULATED
SMM
CHECKED
MOW

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 517+00 TO STA. 528+00

STA-30-(6.70)
(11.57)

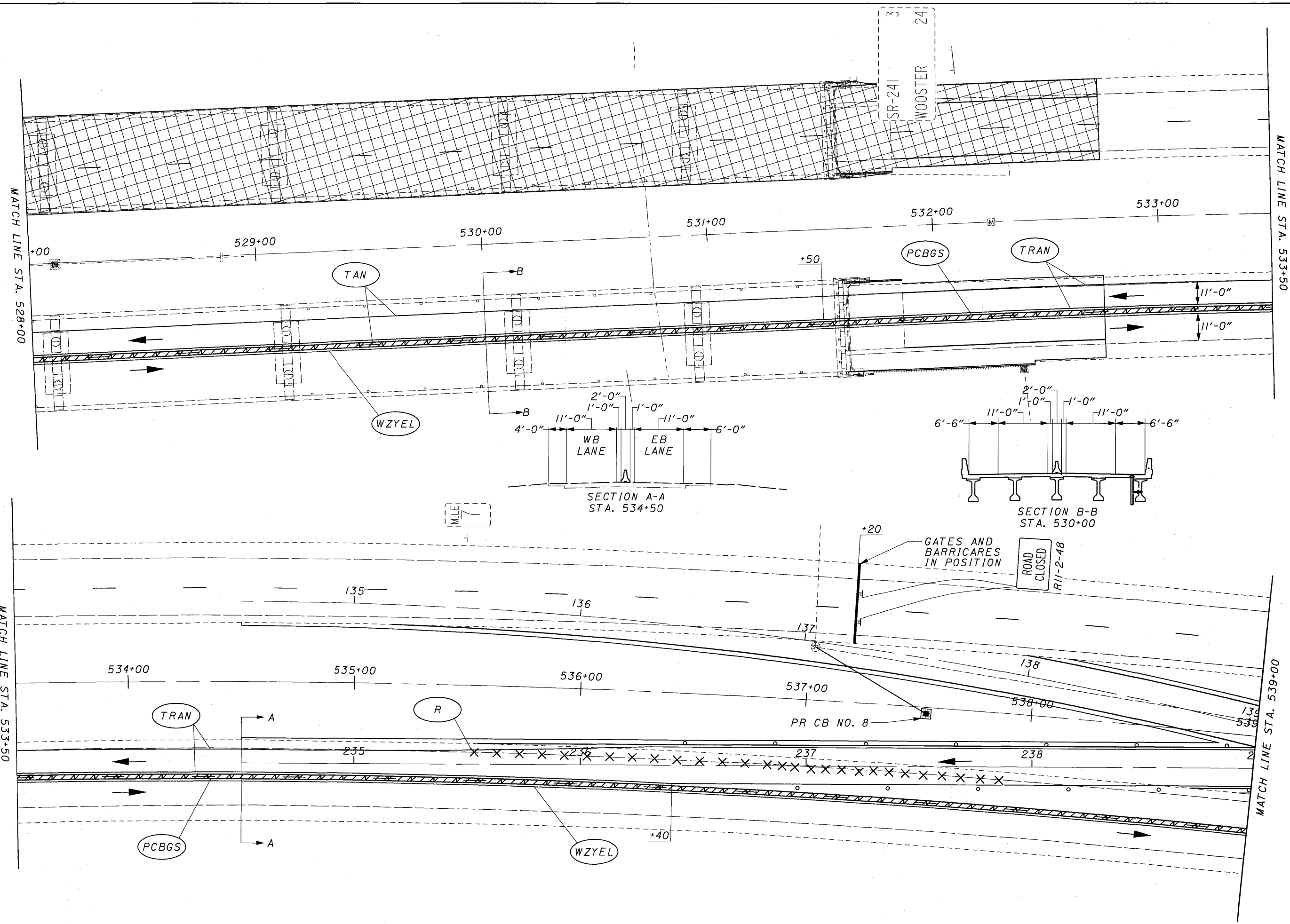


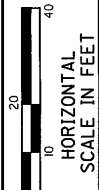


CALCULATED
SMM
CHECKED
MOW

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 528+00 TO STA. 539+00

STA-30-(6.70)
(11.57)

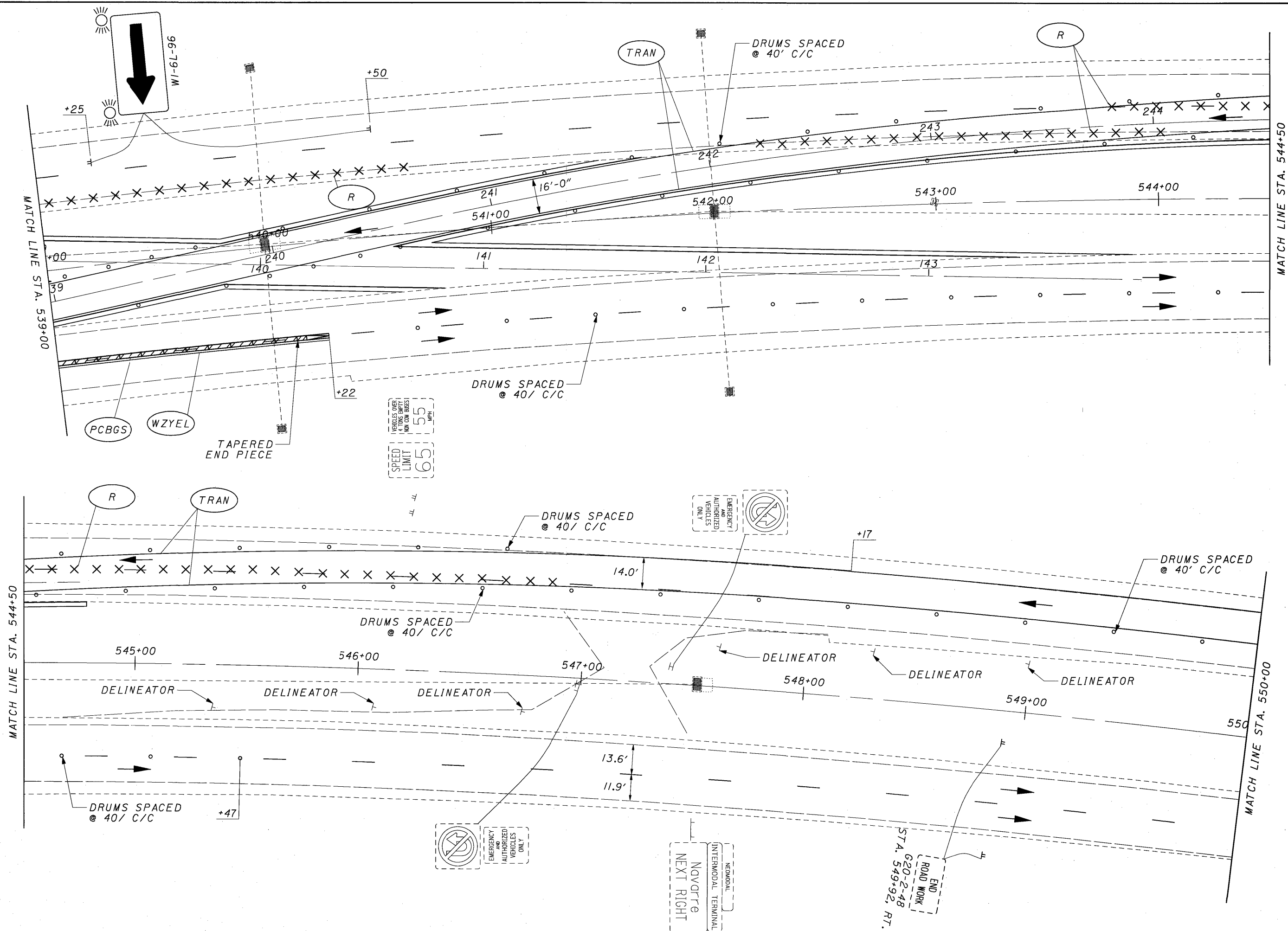


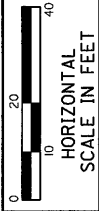


CALCULATED SMM CHECKED MOW

MAINTENANCE OF TRAFFIC - PHASE 2
STA. 539+00 TO STA. 550+00

STA-30-(6.70)
(11.57)





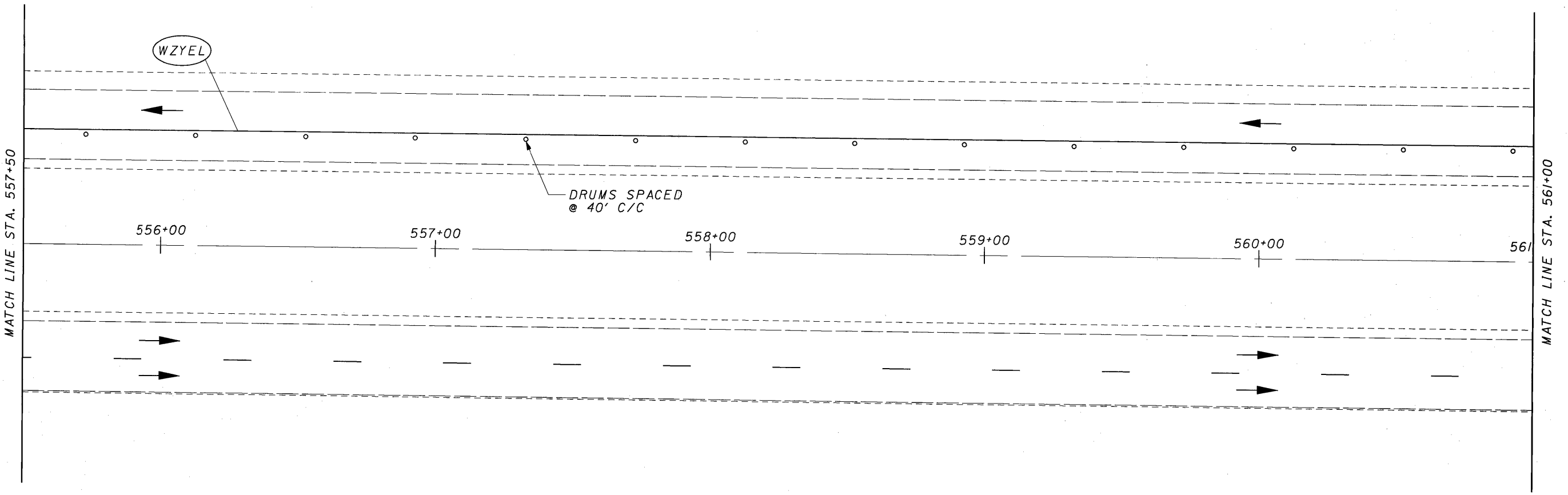
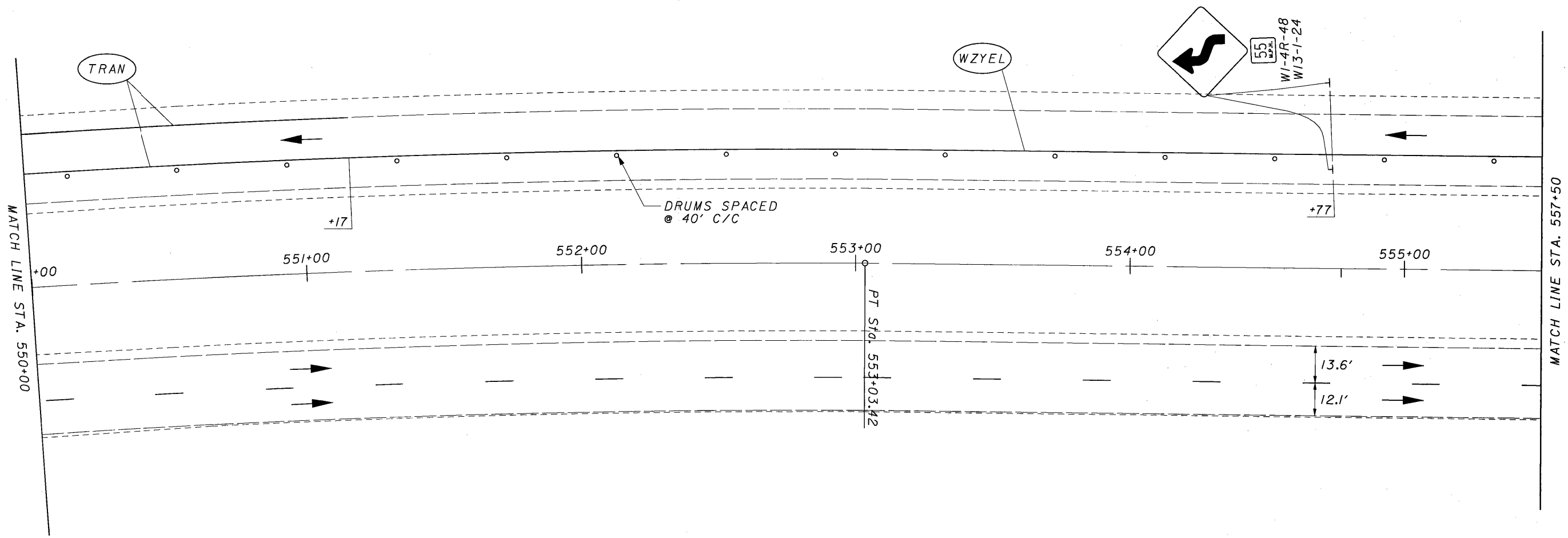
HORIZONTAL SCALE IN FEET

CALCULATED SMM CHECKED MOW

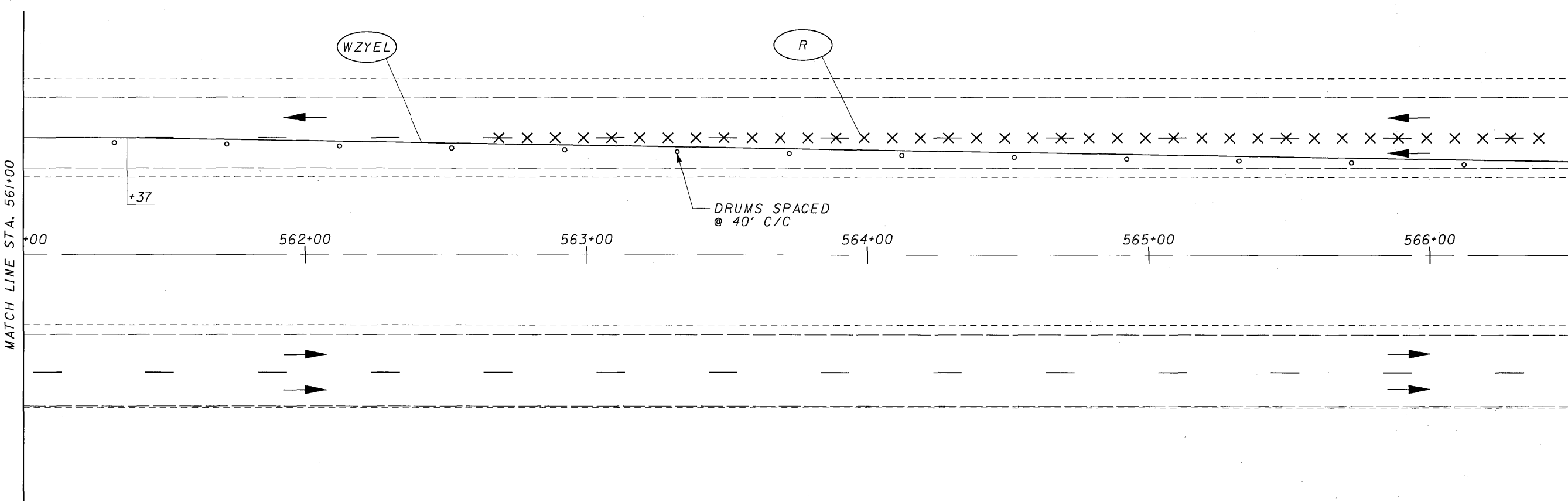
MAINTENANCE OF TRAFFIC - PHASE 2
STA. 550+00 TO STA. 561+00

STA-30-(6.70)
(11.57)

52
127

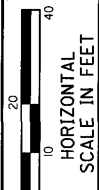
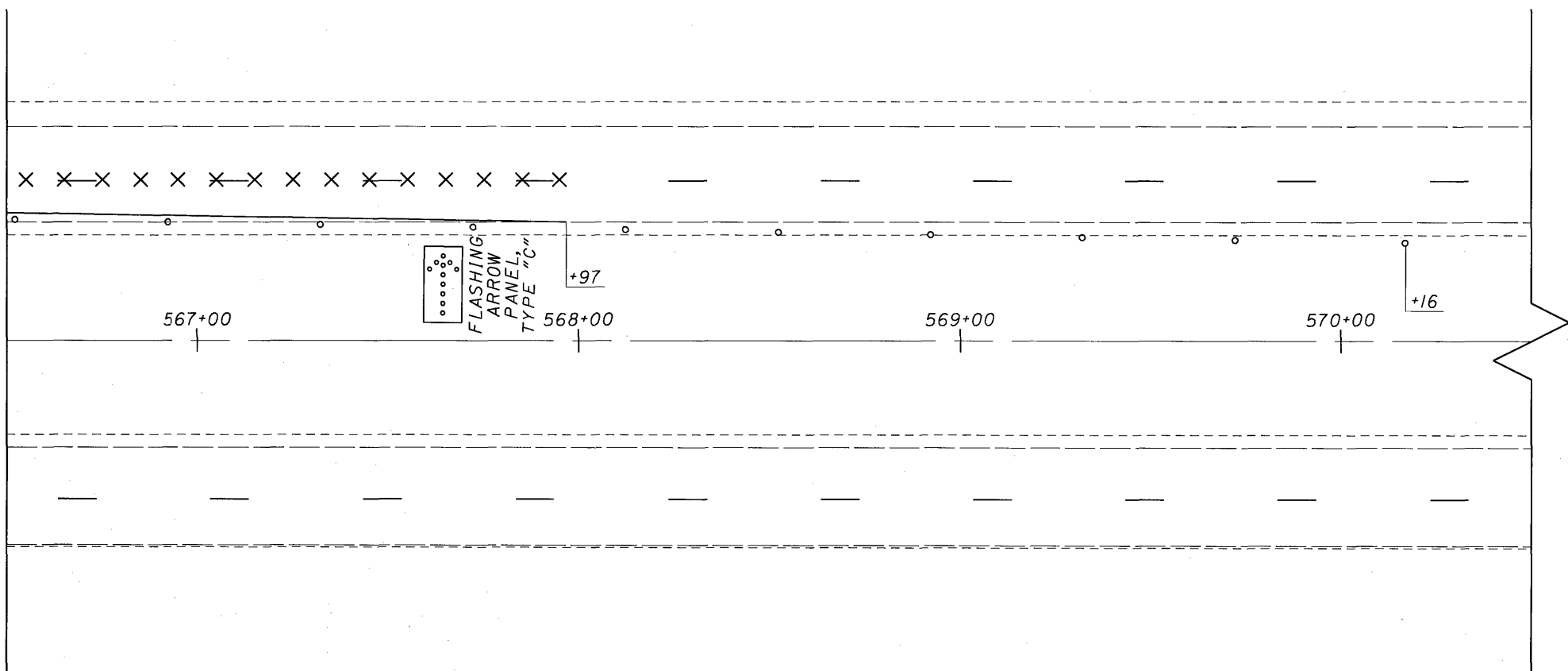


MATCH LINE STA. 561+00



MATCH LINE STA. 566+50

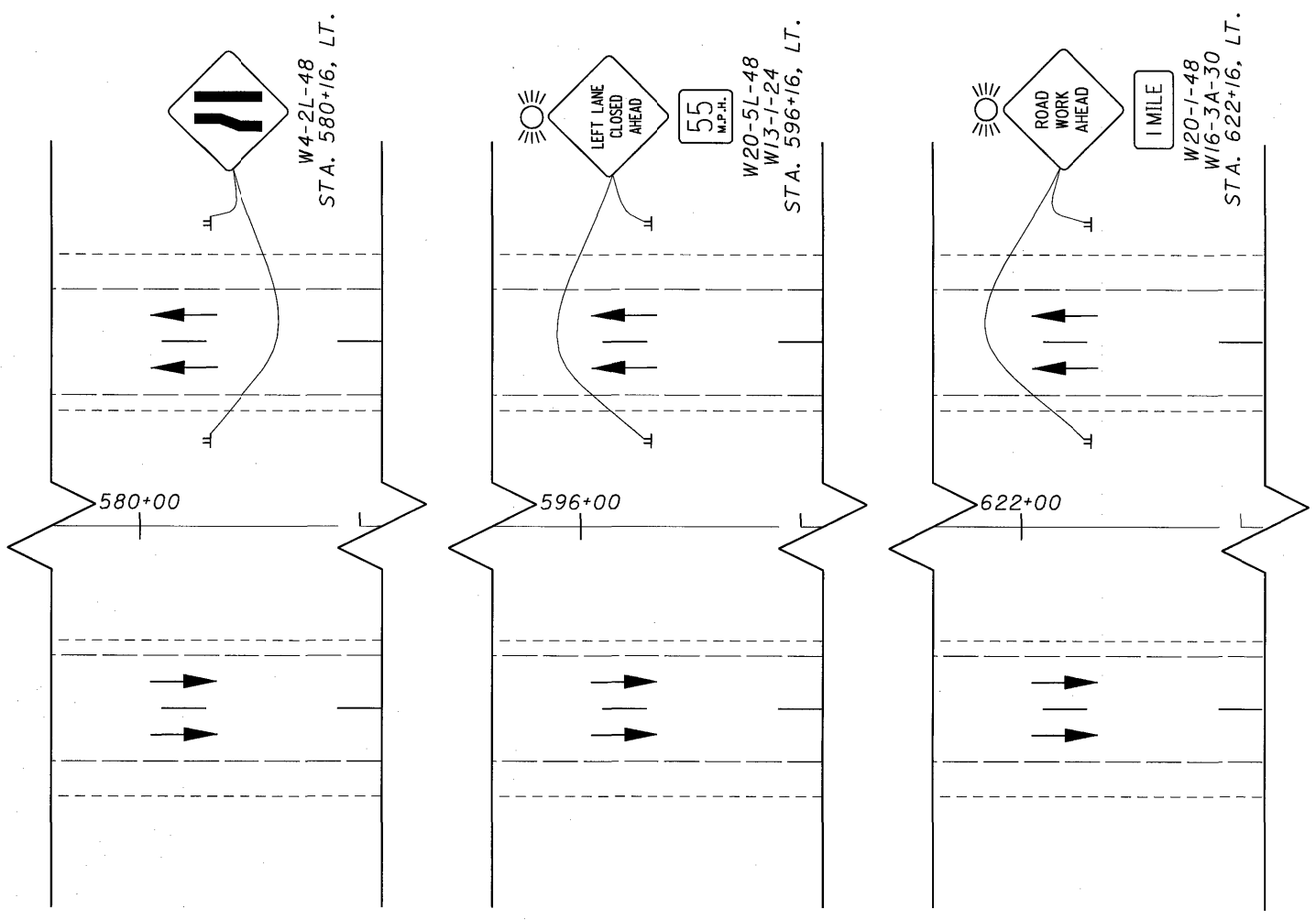
MATCH LINE STA. 566+50



CALCULATED SMM
 CHECKED MOW

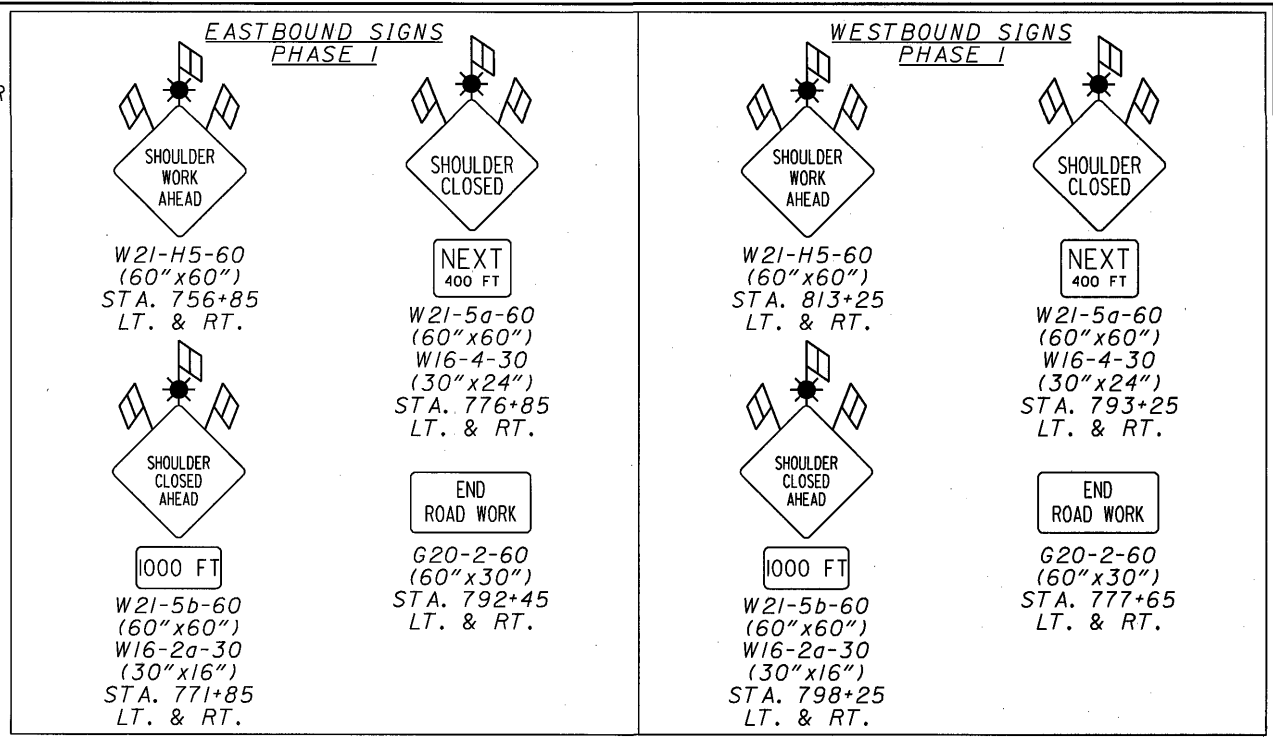
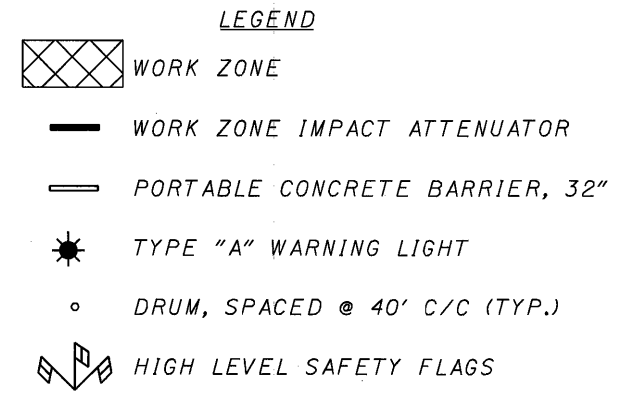
MAINTENANCE OF TRAFFIC - PHASE 2
STA. 561+00 TO STA. 566+00

STA-30-(6.70)
(11.57)

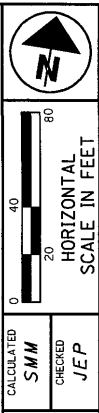
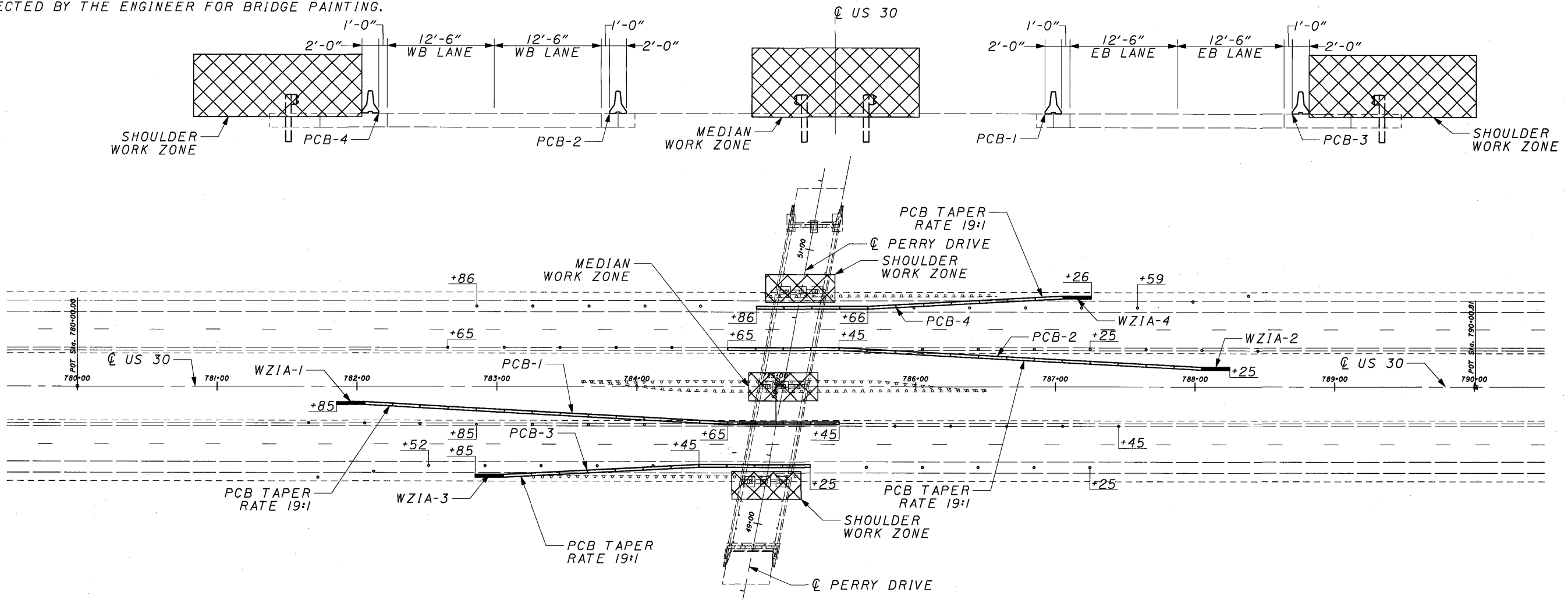


REF. NO.	STATION		614			622
			BARRIER REFLECTOR, TYPE B	OBJECT MARKER, ONE-WAY	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	PORTABLE CONCRETE BARRIER, 32"
	FROM	TO	EACH	EACH	EACH	FEET
PCB-1	781+85	785+45	7	7		340
WZIA-1	781+85				1	
PCB-2	784+65	788+25	7	7		340
WZIA-2	788+25				1	
PCB-3	782+85	785+25	5	5		220
WZIA-3	782+85				1	
PCB-4	784+86	787+26	5	5		220
WZIA-4	787+26				1	
PCB-5			24	24		1120
WZIA-5					4	
GRAND TOTAL CARRIED TO GENERAL SUMMARY			48	48	8	2240

NOTE: TRAFFIC DURING BRIDGE PAINTING SHALL BE MAINTAINED IN STRICT ACCORDANCE WITH ODOT SCD MT-95.40. CONTINGENCY QUANTITIES FOR PORTABLE CONCRETE BARRIER AND WORK ZONE IMPACT ATTENUATORS ARE INCLUDED IN THE SUBSUMMARY FOR USE AS DIRECTED BY THE ENGINEER.



PCB-5 AND WZIA-5 ARE CONTINGENCY QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER FOR BRIDGE PAINTING.



CALCULATED SMM CHECKED JEP
**MAINTAINING TRAFFIC PLAN US-30
 MEDIAN AND SHOULDER WORK ZONES**

STA-30-(6.70)(11.57)



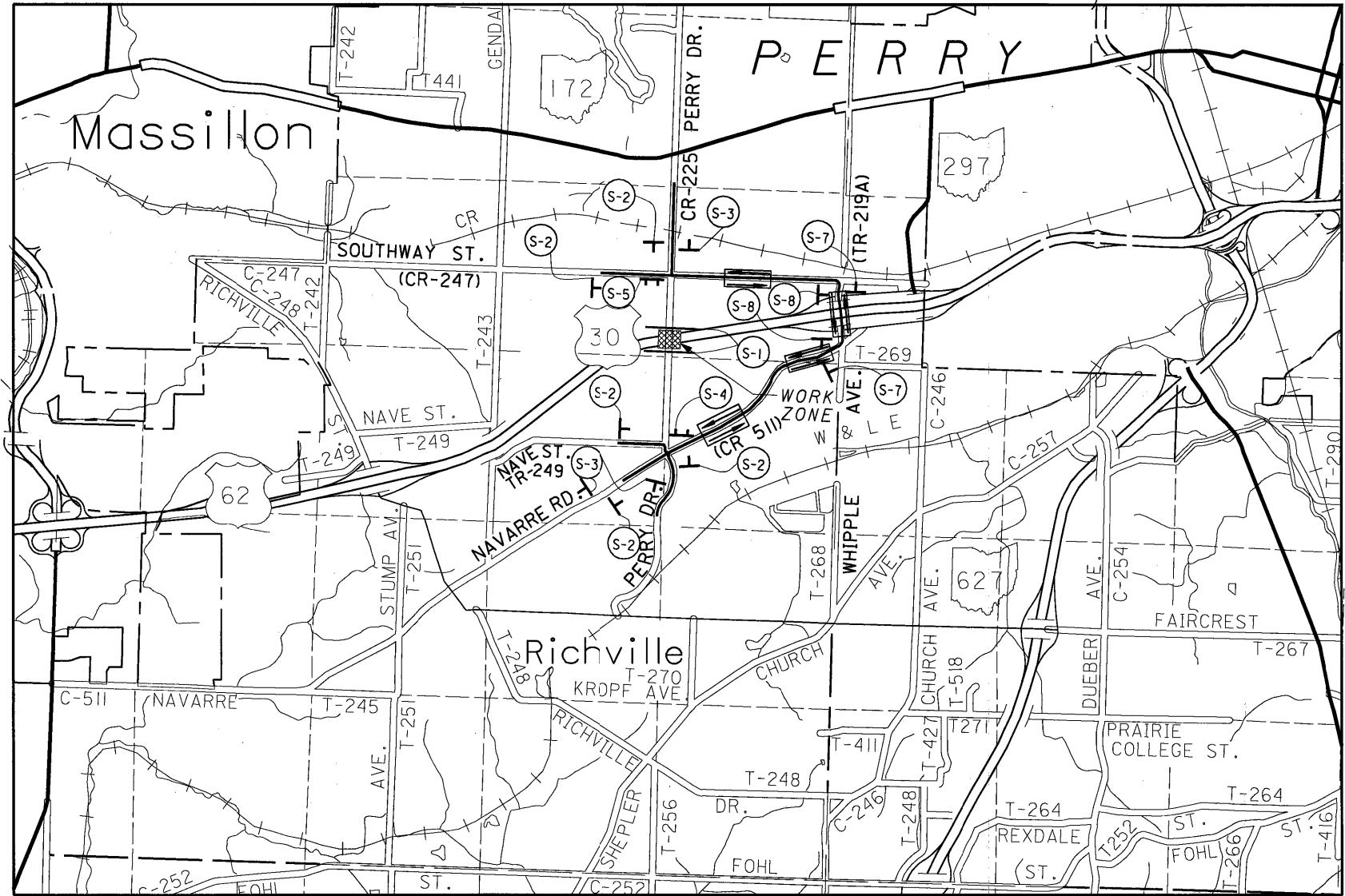
NOT TO SCALE

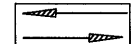






CALCULATED
MOM
1-29-05
CHECKED
SAM
1-29-05

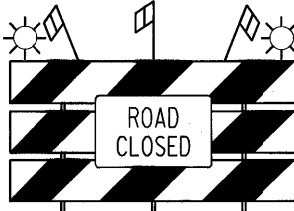
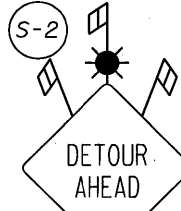
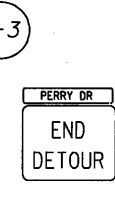
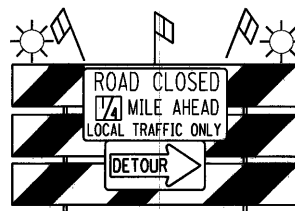
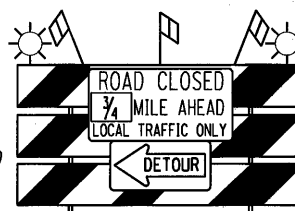



PERRY DR. (CR 225) DETOUR

STA-30-(6.70)
(11.57)

56
127



- LEGEND**
-  DIRECTION OF DETOURED TRAFFIC ARROWS
 -  TYPE III ROAD CLOSED BARRICADE
 -  TYPE III WING BARRICADE
 -  SINGLE GROUND MOUNTED POST SUPPORT
 -  HIGH LEVEL SAFETY FLAG
 -  TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT
 -  TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHT

<p>S-1</p>  <p>R11-2-48 TYPE III FIXED GATES AND BARRICADES</p>	<p>S-2</p>  <p>PERRY DR W20-2-36 D-3-30</p>	<p>S-3</p>  <p>D-3-30 M4-8a-30</p>	<p>S-4</p>  <p>R11-3a-60 M4-10-48 OC-SPEC-60</p> <p>TYPE III WING BARRICADE</p>
<p>S-5</p>  <p>R11-3a-60 M4-10-48 OC-SPEC-60</p> <p>TYPE III WING BARRICADE</p>	<p>S-6</p>  <p>D-3-30 M4-9C-30</p>	<p>S-7</p>  <p>D-3-30 M4-9L-30</p>	<p>S-8</p>  <p>D-3-30 M4-9R-30</p>

SHEET NUMBER											ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.		
7	8	60	63	64	65	66	73	79	121	OFFICE CALCS								
															ROADWAY			
	LUMP											201	11000	LUMP		CLEARING AND GRUBBING		
									200			3771	23010	3971	SQ YD	PAVEMENT REMOVED, ASPHALT		
												599	23500	599	SQ YD	WEARING COURSE REMOVED		
					58								202	32000	58	FT	CURB REMOVED	
					8								202	35100	8	FT	PIPE REMOVED, 24" AND UNDER	
				10									202	35200	10	FT	PIPE REMOVED, OVER 24"	
		1250	337.5		1256.25								202	38000	2843.75	FT	GUARDRAIL REMOVED	
			75		75								202	38300	150	FT	GUARDRAIL REMOVED, BARRIER DESIGN	
		1			1								202	58100	2	EACH	CATCH BASIN REMOVED	
		263											202	75000	263	FT	FENCE REMOVED	
						1036	502						203	10000	1538	CU YD	EXCAVATION	
						154	70						203	20001	224	CU YD	EMBANKMENT, AS PER PLAN	8
								346				4691	204	10000	5037	SQ YD	SUBGRADE COMPACTION	
												3	204	45000	3	HOUR	PROOF ROLLING	
		9			10								209	15000	19	STATION	RESHAPING UNDER GUARDRAIL	
												13	209	60200	13	STATION	LINEAR GRADING	
									1				604	40500	1	EACH	REFERENCE MONUMENT	
		537.5	287.5		1287.5								606	13000	2112.5	FT	GUARDRAIL, TYPE 5	
		400											606	15500	400	FT	GUARDRAIL, BARRIER DESIGN, TYPE 5	
		1	2		2								606	22000	5	EACH	ANCHOR ASSEMBLY, TYPE B-98	
		3											606	22010	3	EACH	ANCHOR ASSEMBLY, TYPE E-98	
		4			1								606	26500	5	EACH	ANCHOR ASSEMBLY, TYPE T	
		4	2		2								606	35000	8	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1	
		2			1								606	35100	3	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2	
		2											606	60010	2	EACH	IMPACT ATTENUATOR, TYPE I-98 (BIDIRECTIONAL)	
		144											607	15000	144	FT	FENCE, TYPE 47	
		68											622	10160	68	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
		2											622	25000	2	EACH	CONCRETE BARRIER END SECTION, TYPE D	
		1											SPECIAL	69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	7
		1											SPECIAL	69050200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	7
															EROSION CONTROL			
		3		9	3								601	32104	15	CU YD	ROCK CHANNEL PROTECTION, TYPE B WITH FABRIC FILTER	
	150												653	10000	150	CU YD	TOPSOIL FURNISHED AND PLACED	
	3886												659	10000	3886	SQ YD	SEEDING AND MULCHING	
	201												659	14000	201	SQ YD	REPAIR SEEDING AND MULCHING	
	201												659	15000	201	SQ YD	INTER-SEEDING	
	0.57												659	20000	0.57	TON	COMMERCIAL FERTILIZER	
	0.84												659	31000	0.84	ACRE	LIME	
	23												659	35000	23	M GAL	WATER	
	6												659	40000	6	M SQ FT	MOWING	
		29											660	20000	29	SQ YD	SODDING REINFORCED	
			134										670	00700	134	SQ YD	DITCH EROSION PROTECTION	
													832	15000	LUMP		STORM WATER POLLUTION PREVENTION PLAN	
													832	30000	18155	EACH	EROSION CONTROL	

GENERAL SUMMARY

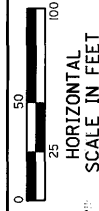
STA-30-(6.70)(11.57)

SHEET NUMBER												ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	60	63	64	65	79	80	100	118	OFFICE CALCS								
																DRAINAGE	
	0.2		0.6	0.3								602	20000	1.1	CU YD	CONCRETE MASONRY	
	94	126	144	138								603	00410	502	FT	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
50												603	01400	50	FT	6" CONDUIT, TYPE E	
50												603	01500	50	FT	6" CONDUIT, TYPE F	
60												603	04400	60	FT	12" CONDUIT, TYPE B	
	80											603	04600	80	FT	12" CONDUIT, TYPE C	
				97								603	06100	97	FT	15" CONDUIT, TYPE C	
			10									603	13600	10	FT	30" CONDUIT, TYPE C, 706.02	
				2								604	00800	2	EACH	CATCH BASIN, NO. 3A	
	1											604	01600	1	EACH	CATCH BASIN, NO. 5	
	1											604	04500	1	EACH	CATCH BASIN, NO. 2-2B	
			1									604	09500	1	EACH	CATCH BASIN, RECONSTRUCTED TO GRADE	
	1			2								604	36600	3	EACH	PRECAST REINFORCED CONCRETE OUTLET	
		472		182								605	05100	654	FT	4" SHALLOW PIPE UNDERDRAINS	
			126									605	05200	126	FT	4" UNCLASSIFIED PIPE UNDERDRAINS	
	473	944		362								605	06000	1779	FT	4" BASE PIPE UNDERDRAINS	
																PAVEMENT	
												1018	302	46000	1018	CU YD	ASPHALT CONCRETE BASE, PG64-22
						62						773	304	20001	835	CU YD	AGGREGATE BASE, AS PER PLAN
												46	407	10000	46	GALLON	TACK COAT
												173	407	14000	173	GALLON	TACK COAT FOR INTERMEDIATE COURSE
						109						1585	408	10000	1694	GALLON	PRIME COAT
												211	448	46040	211	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-28
												173	448	47010	173	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-28
												60	448	46061	60	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, UNDER
																	GUARDRAIL, PG64-22, AS PER PLAN
						16							448	48020	16	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (DRIVEWAYS)
				58									609	24510	58	FT	CURB, TYPE 4C
												10	617	10100	10	CU YD	COMPACTED AGGREGATE
												171	617	20000	171	SQ YD	SHOULDER PREPARATION
																TRAFFIC CONTROL	
								1050	350				625	25400	1400	FT	CONDUIT, 2", 725.04
								4	2				625	29900	6	EACH	JUNCTION BOX (6"x6"x4")
								4	2				625	30706	6	EACH	PULLBOX, 725.08, 24"
								16					626	00100	16	EACH	BARRIER REFLECTOR, TYPE A
								2					626	00200	2	EACH	BARRIER REFLECTOR, TYPE B
								6					626	00300	6	EACH	BARRIER REFLECTOR, TYPE A2
								6					626	00400	6	EACH	BARRIER REFLECTOR, TYPE B2
								84					630	03100	84	FT	GROUND MOUNTED SUPPORT, NO. 3 POST
								23					630	80100	23	SQ FT	SIGN, FLAT SHEET
								7					630	84900	7	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
								6					630	86002	6	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
								0.2					646	10000	0.2	MILE	EDGE LINE
								0.1					646	10200	0.1	MILE	CENTER LINE

GENERAL SUMMARY

STA -30-(6.70)(11.57)

REF NO.	SHEET NO.	STATION		SIDE	202		202	202	209	601	602	603	603	604	604	604	605	606	606	606	606	606	606	607	622	622	SPECIAL	SPECIAL	660		
		FROM	TO		EACH	FT	FT	STA	CU YD	CU YD		FT	FT	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	EACH	EACH	SO YD	
B1	71	784+63.20	785+11.20	RT.																											
D1	71	47+85.00	48+01.00	LT.									16		1											34	1				
F1	71	46+63.38	48+76.39	LT.																									32		
F2	71	48+77.09	48+84.14	RT.																									24		
G1	71	47+65.33	48+71.35	RT.												68.75			1										1		
G2	71	48+30.33	48+64.83	LT.												25													1		
G3	71	783+09.05	784+65.30	RT.					1.6							106.25													1		
G4	71	782+55.50	784+86.50	RT.					2.4																				1		
G5	71	784+86.50	785+36.50	RT.					0.5							37.5													1		
G6	71	784+74.00	785+24.00	LT.					0.5							37.5													1		
G7	71	785+24.00	787+55.00	LT.					2.4																				1		
M1	71	47+82.00		LT.																									1		
R1	71	47+70.24	48+72.48	RT.																											
R2	71	47+99.03		LT.																											
R3	71	48+41.11	48+65+92	LT.																											
R4	71	48+63.38	48+76.39	LT.																											
R5	71	783+24.47	785+15.59	RT.																											
R6	71	783+60.47	786+50.45	RT.																											
R7	71	783+60.47	786+50.45	LT.																											
R8	71	48+77.09	48+84.14	RT.																											
R9	71	47+73.20	48+76.71	RT.																											
U1	71	47+75.00	48+52.02	LT.																											
U2	71	47+75.00	48+58.42	RT.																											
U3	71	47+85.00	47+85.00	LT.&RT.																											
B2	72	785+01.92	785+49.97	LT.																											
D2	72	50+88.63	51+52.28	RT.																											
E1	72	51+51.60	51+60.60	LT.																											
E2	72	51+46.98	51+55.98	RT.																											
E3	72	50+80.63	50+88.63	RT.																											
F3	72	51+15.98	51+37.41	LT.																											
F4	72	51+22.68	51+55.32	RT.																											
G8	72	785+47.81	786+79.06	LT.																											
G9	72	51+28.65	52+22.29	LT.																											
G10	72	51+35.06	52+84.62	RT.																											
M2	72	52+75.64		LT.																											
U4	72	51+41.60	53+00.00	LT.																											
U5	72	51+48.00	53+00.00	RT.																											
U6	72	53+00.00	53+00.00	LT.&RT.																											
R10	72	784+94.29	786+58.17	LT.																											
R11	72	51+27.06	52+04.88	LT.																											
R12	72	51+34.53	52+61.49	RT.																											
R13	72	51+15.98	51+37.41	LT.																											
R14	72	51+22.68	51+55.32	RT.																											
TOTALS CARRIED TO GENERAL SUMMARY																															



CALCULATED
RJS
CHECKED
SUS

PROJECT SITE PLAN
RAILROAD & TUSCARAWAS RIVER

STA-30-(6.70)(11.57)

61
127

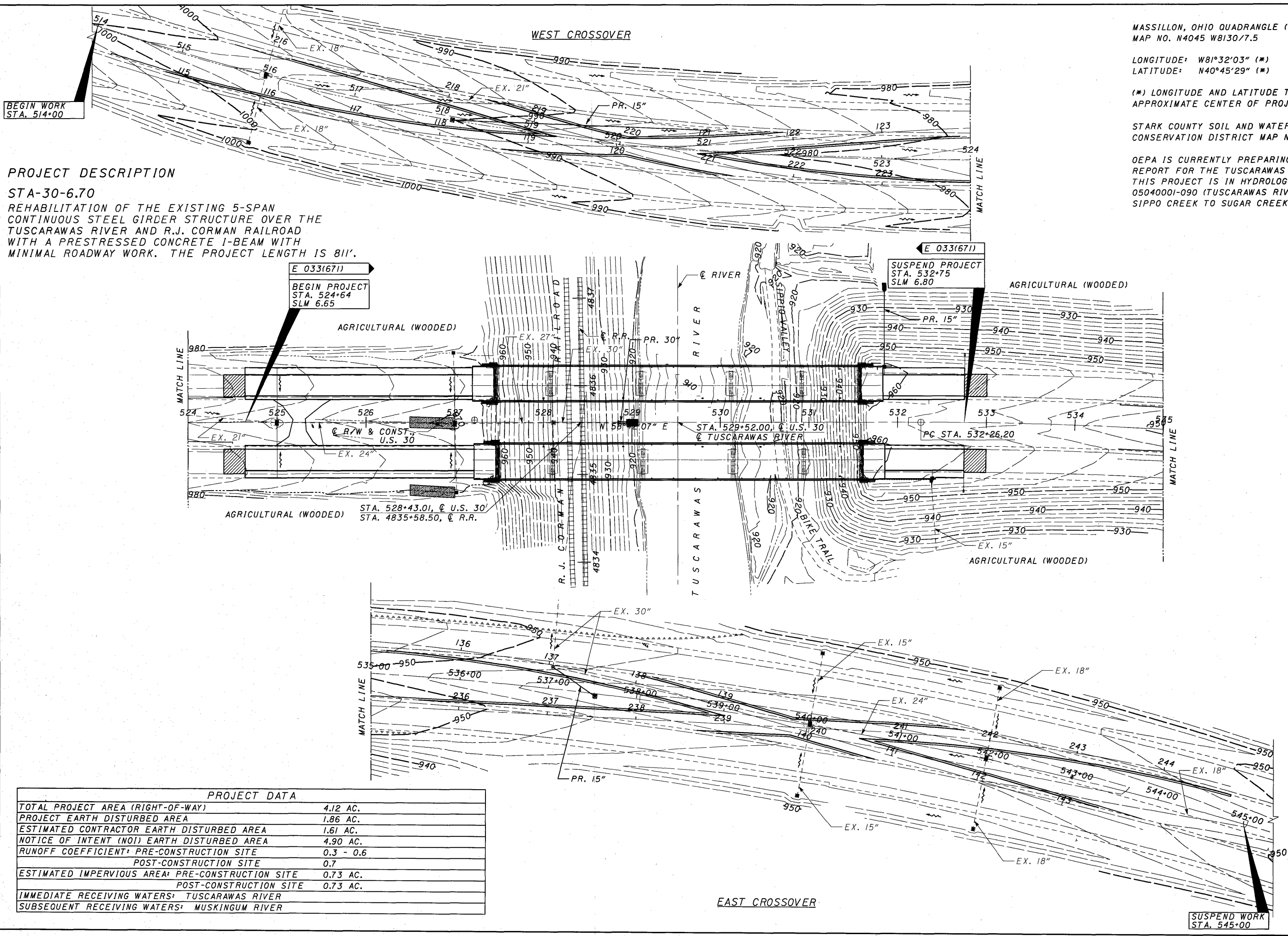
MASSILLON, OHIO QUADRANGLE (USGS)
MAP NO. N4045 W8130/7.5

LONGITUDE: W81°32'03" (*)
LATITUDE: N40°45'29" (*)

(*) LONGITUDE AND LATITUDE TO
APPROXIMATE CENTER OF PROJECT

STARK COUNTY SOIL AND WATER
CONSERVATION DISTRICT MAP NO. 66.

OEPA IS CURRENTLY PREPARING A TMDL
REPORT FOR THE TUSCARAWAS RIVER.
THIS PROJECT IS IN HYDROLOGIC UNIT
05040001-090 (TUSCARAWAS RIVER;
SIPPO CREEK TO SUGAR CREEK)



PROJECT DESCRIPTION

STA-30-6.70

REHABILITATION OF THE EXISTING 5-SPAN
CONTINUOUS STEEL GIRDER STRUCTURE OVER THE
TUSCARAWAS RIVER AND R.J. CORMAN RAILROAD
WITH A PRESTRESSED CONCRETE I-BEAM WITH
MINIMAL ROADWAY WORK. THE PROJECT LENGTH IS 811'.

E 033(671)
BEGIN PROJECT
STA. 524+64
SLM 6.65

E 033(671)
SUSPEND PROJECT
STA. 532+75
SLM 6.80

PROJECT DATA	
TOTAL PROJECT AREA (RIGHT-OF-WAY)	4.12 AC.
PROJECT EARTH DISTURBED AREA	1.86 AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	1.61 AC.
NOTICE OF INTENT (NOI) EARTH DISTURBED AREA	4.90 AC.
RUNOFF COEFFICIENT: PRE-CONSTRUCTION SITE	0.3 - 0.6
POST-CONSTRUCTION SITE	0.7
ESTIMATED IMPERVIOUS AREA: PRE-CONSTRUCTION SITE	0.73 AC.
POST-CONSTRUCTION SITE	0.73 AC.
IMMEDIATE RECEIVING WATERS: TUSCARAWAS RIVER	
SUBSEQUENT RECEIVING WATERS: MUSKINGUM RIVER	

PROJECT DATA	
TOTAL PROJECT AREA (RIGHT-OF-WAY)	1.41 AC.
PROJECT EARTH DISTURBED AREA	1.26 AC.
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	1.28 AC.
NOTICE OF INTENT (NOI) EARTH DISTURBED AREA	4.90 AC.
RUNOFF COEFFICIENT: PRE-CONSTRUCTION SITE	0.3 - 0.6
POST-CONSTRUCTION SITE	0.7
ESTIMATED IMPERVIOUS AREA: PRE-CONSTRUCTION SITE	0.20 AC.
POST-CONSTRUCTION SITE	0.20 AC.
IMMEDIATE RECEIVING WATERS: DITCH	
SUBSEQUENT RECEIVING WATERS: -	

CANTON WEST, OHIO QUADRANGLE (USGS)
MAP NO. 4081-G4-TF-024

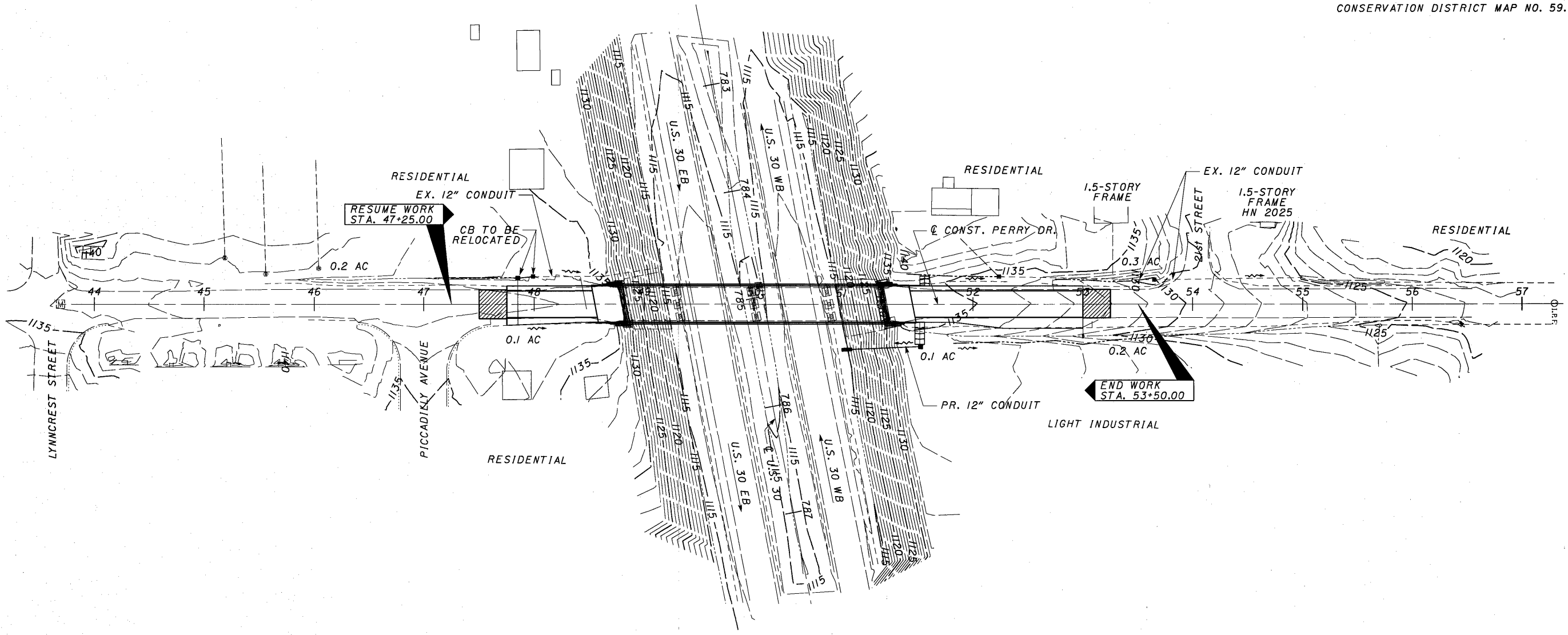
LONGITUDE: W81°26'49" (*)
LATITUDE: N40°46'35" (*)

(*) LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT

STARK COUNTY SOIL AND WATER CONSERVATION DISTRICT MAP NO. 59.

CALCULATED
RJS
CHECKED
SJS

0 25 50 100
HORIZONTAL SCALE IN FEET



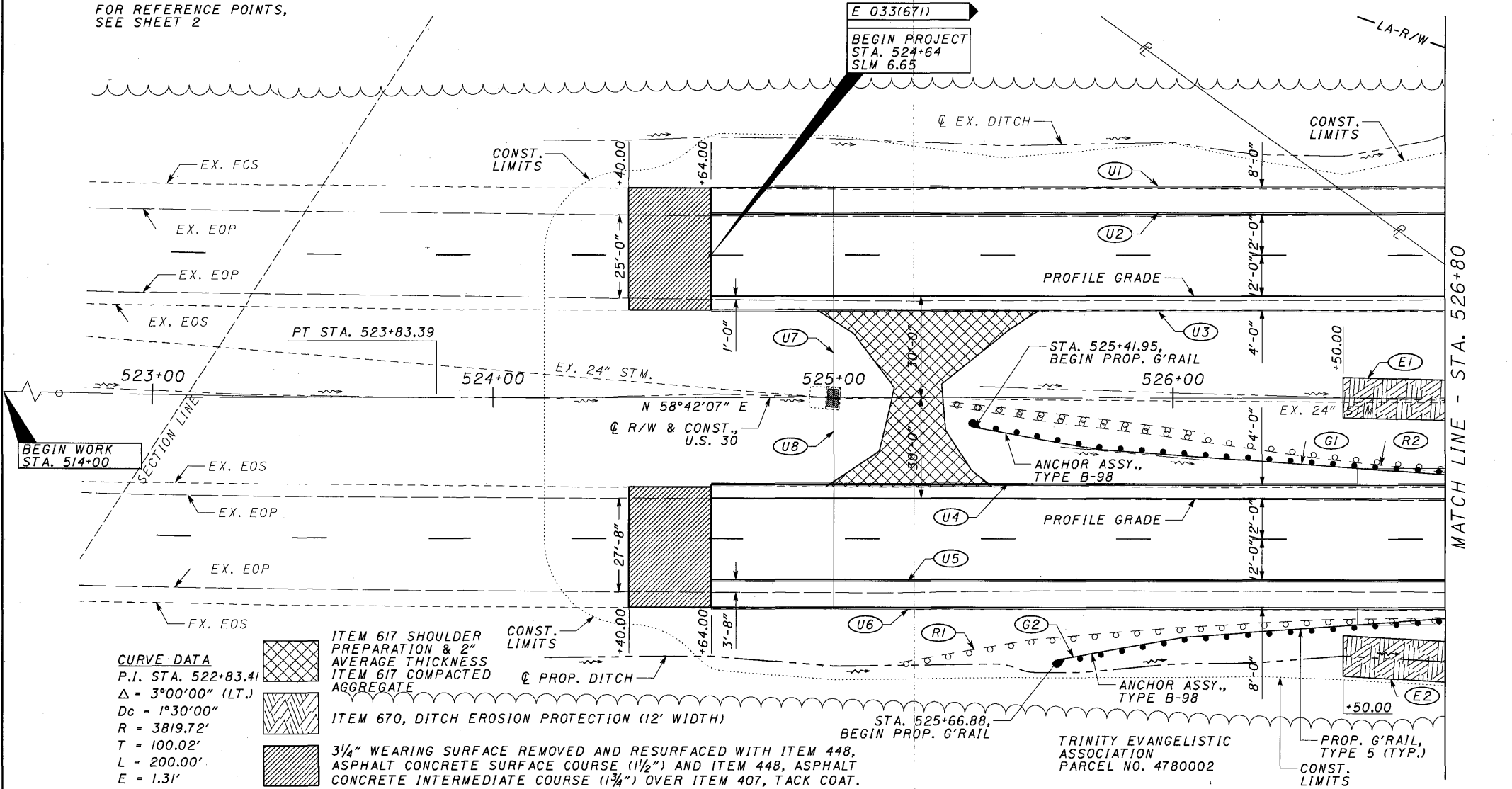
**PROJECT SITE PLAN
PERRY DRIVE**

PROJECT DESCRIPTION
STA-30-11.57
REHABILITATION OF THE EXISTING 4-SPAN CONTINUOUS STEEL BEAM STRUCTURE OVER U.S. 30 WITH MINIMAL ROADWORK. THE PROJECT LENGTH IS 525'.

STA-30-(6.70)(11.57)

FOR REFERENCE POINTS,
SEE SHEET 2

E 033(671)
BEGIN PROJECT
STA. 524+64
SLM 6.65



CURVE DATA

P.I. STA. 522+83.41
 $\Delta = 3^{\circ}00'00''$ (LT.)
 $D_c = 1^{\circ}30'00''$
 $R = 3819.72'$
 $T = 100.02'$
 $L = 200.00'$
 $E = 1.31'$



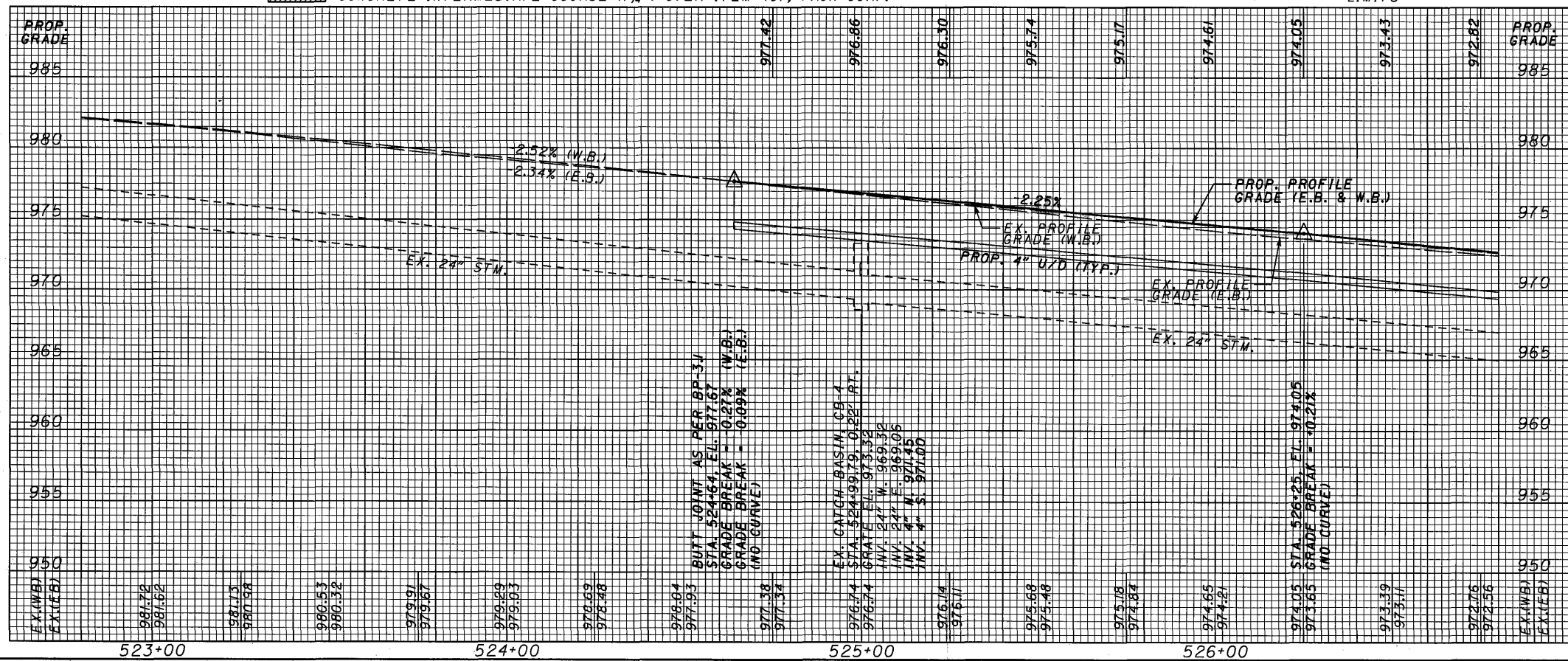
ITEM 617 SHOULDER
PREPARATION & 2"
AVERAGE THICKNESS
ITEM 617 COMPACTED
AGGREGATE



ITEM 670, DITCH EROSION PROTECTION (12' WIDTH)

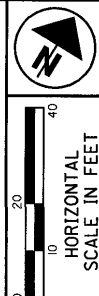


3/4" WEARING SURFACE REMOVED AND RESURFACED WITH ITEM 448,
ASPHALT CONCRETE SURFACE COURSE (1 1/2") AND ITEM 448, ASPHALT
CONCRETE INTERMEDIATE COURSE (1 3/4") OVER ITEM 407, TACK COAT.



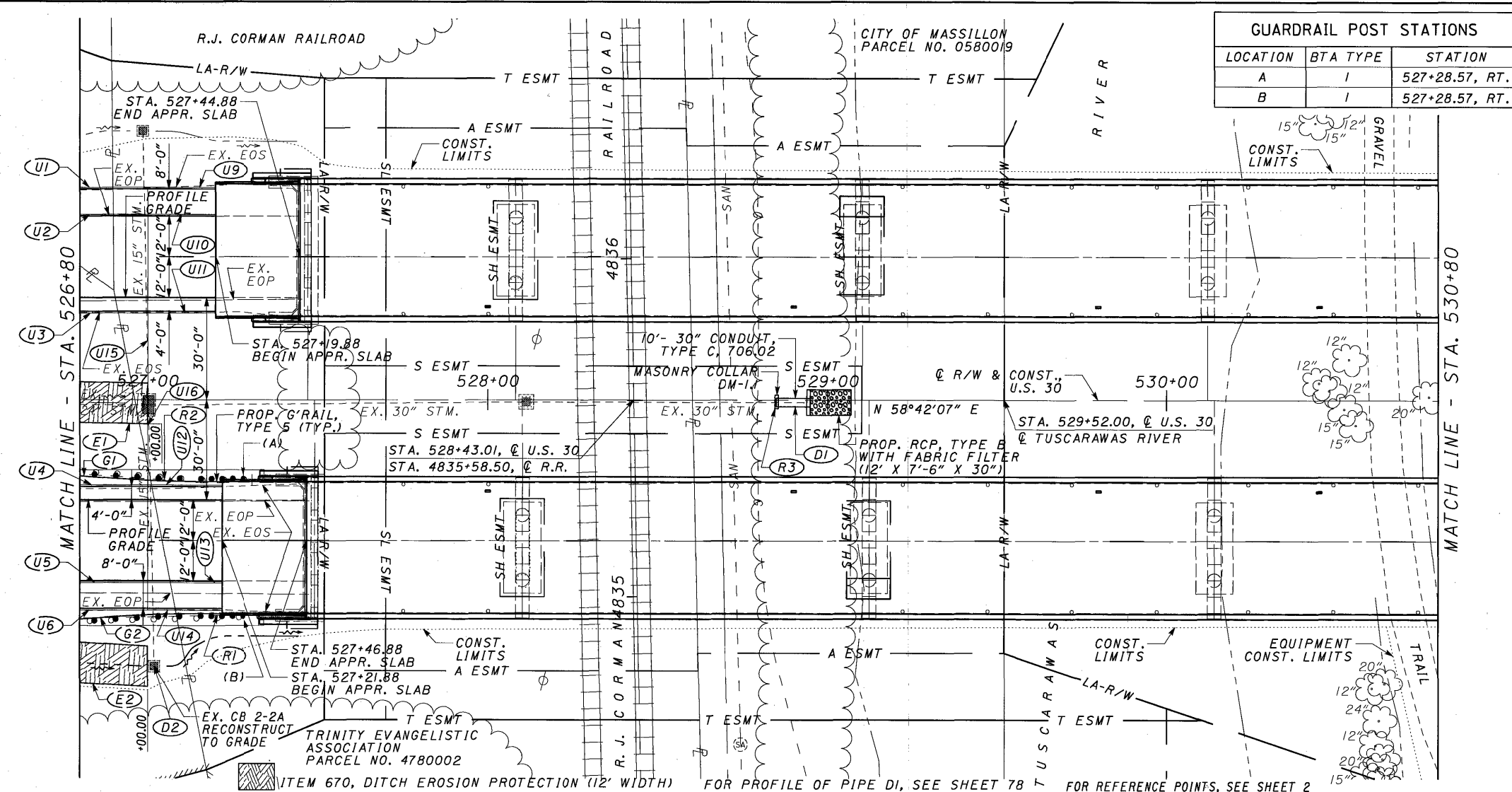
MATCH LINE - STA. 526+80

REF NO.	STATION		SIDE	ITEM	QUANTITY	UNIT	TOTALS CARRIED TO GENERAL SUMMARY
	FROM	TO					
R1	525+19.55	527+34.83	RT.	GUARDRAIL BARRIER DESIGN	75	FT.	337.5
R2	525+34.25	527+34.83	RT.	GUARDRAIL REMOVED	125	FT.	
E1	526+50	527+00	C/L	GUARDRAIL REMOVED	236	FT.	472
E2	526+50	527+00	RT.	GUARDRAIL REMOVED	236	FT.	
G1	525+41.95	527+34.82	RT.	CONDUIT TYPE F FOR UNDERDRAIN OUTLETS	1	EA	2
G2	525+66.88	527+34.82	RT.	CONDUIT TYPE F FOR UNDERDRAIN OUTLETS	1	EA	
U1	524+64	527+00	LT.	SHALLOW PIPE UNDERDRAINS	156.25	FT.	287.5
U2	524+64	527+00	LT.	SHALLOW PIPE UNDERDRAINS	131.25	FT.	
U3	524+64	527+00	LT.	SHALLOW PIPE UNDERDRAINS	236	FT.	944
U4	524+64	527+00	LT.	SHALLOW PIPE UNDERDRAINS	236	FT.	
U5	524+64	527+00	RT.	SHALLOW PIPE UNDERDRAINS	236	FT.	126
U6	524+64	527+00	RT.	SHALLOW PIPE UNDERDRAINS	236	FT.	
U7	525+00	527+00	LT.	SHALLOW PIPE UNDERDRAINS	63	FT.	134
U8	525+00	527+00	RT.	SHALLOW PIPE UNDERDRAINS	63	FT.	
TOTALS CARRIED TO GENERAL SUMMARY							

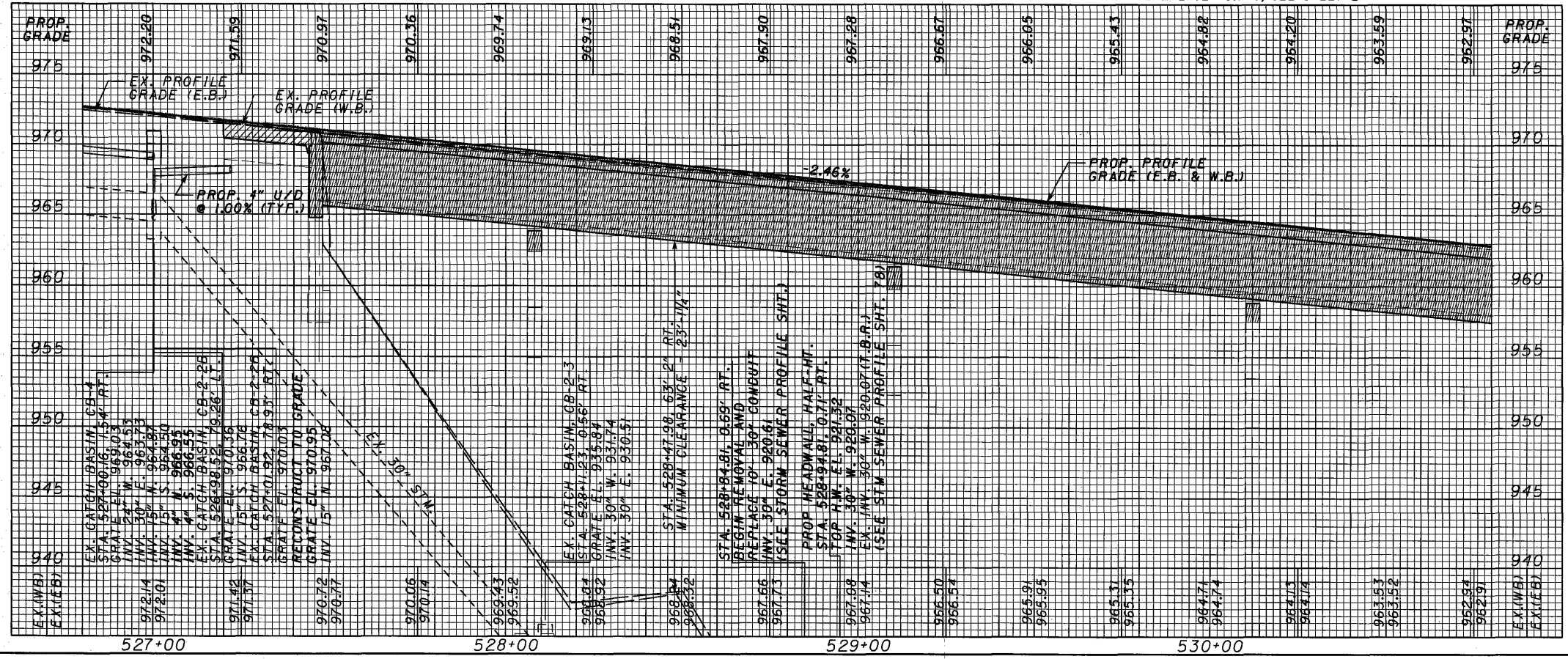


PLAN AND PROFILE - RAILROAD & TUSCARAWAS RIVER, STA. 522+80 TO STA. 526+80

STA-30-(6.70)(11.57)



GUARDRAIL POST STATIONS		
LOCATION	BTA TYPE	STATION
A	I	527+28.57, RT.
B	I	527+28.57, RT.



REF NO.	STATION		SIDE	ITEM	QUANTITY	UNIT	TOTALS CARRIED TO GENERAL SUMMARY	
	FROM	TO						
R3	528+84.81	528+94.81	C/L	PIPE REMOVED, OVER 24"	10	FT.	10	
D1	528+84.81	529+06.81	C/L	RCP, TYPE B WITH FABRIC FILTER	9	C.Y.	9	
D2	527+01.92	529+06.81	C/L	CONCRETE MASONRY	0.56	C.Y.	0.6	
U9	527+00	527+19.88	LT.	4\"/>				
U10	527+00	527+19.88	LT.	4\"/>				
U11	527+00	527+19.88	LT.	4\"/>				
U12	527+00	527+21.88	RT.	4\"/>				
U13	527+00	527+21.88	RT.	4\"/>				
U14	527+00	527+21.88	RT.	4\"/>				
U15	527+00	527+21.88	LT.	4\"/>				
U16	527+00	527+21.88	RT.	4\"/>				
TOTALS CARRIED TO GENERAL SUMMARY							126	144

PLAN AND PROFILE - RAILROAD & TUSCARAWAS RIVER, STA. 526+80 TO STA. 530+80

STA-30-(6.70)(11.57)

SCALE IN FEET

0 20 40

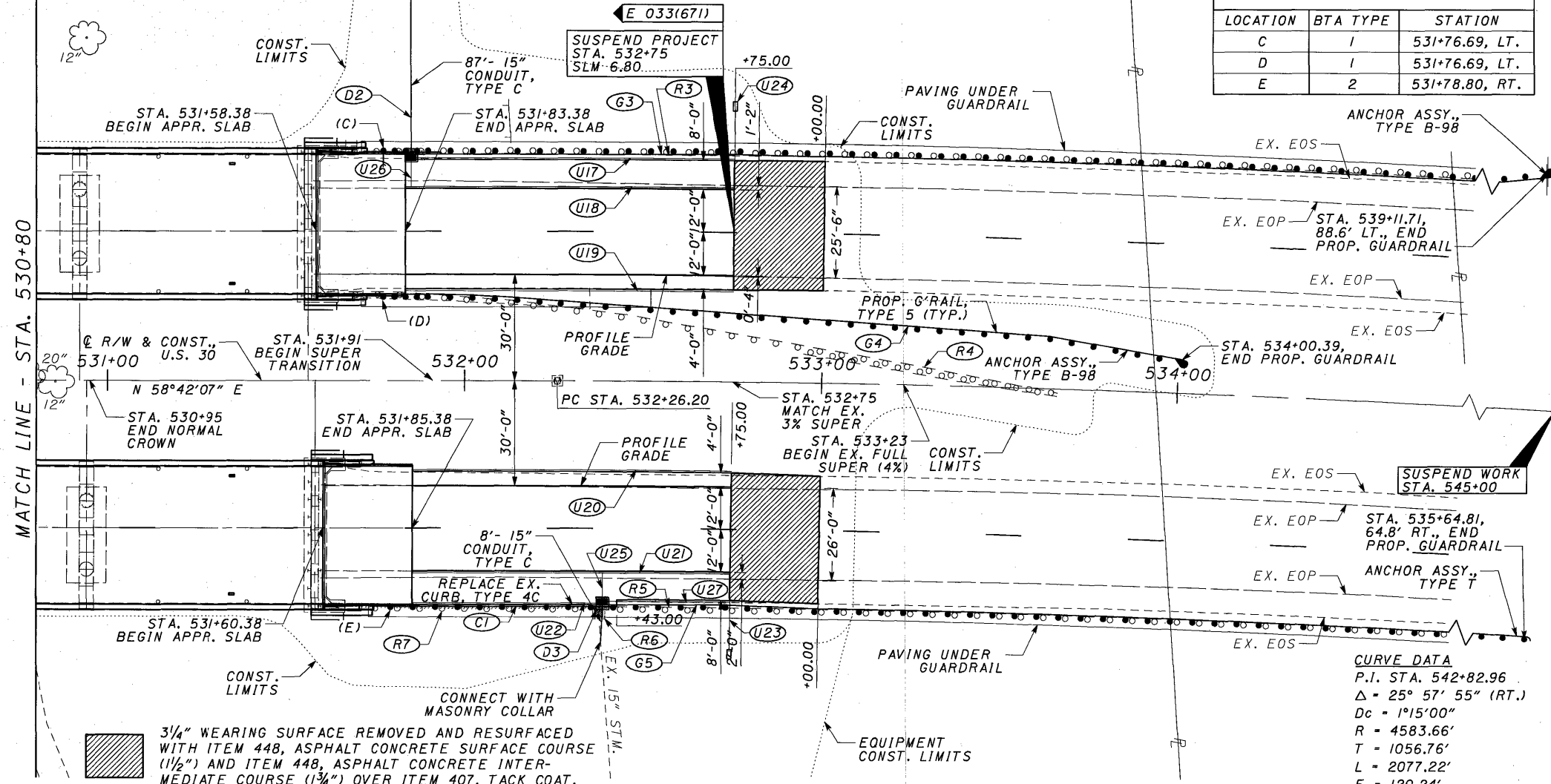
HORIZONTAL

CALCULATED RJS

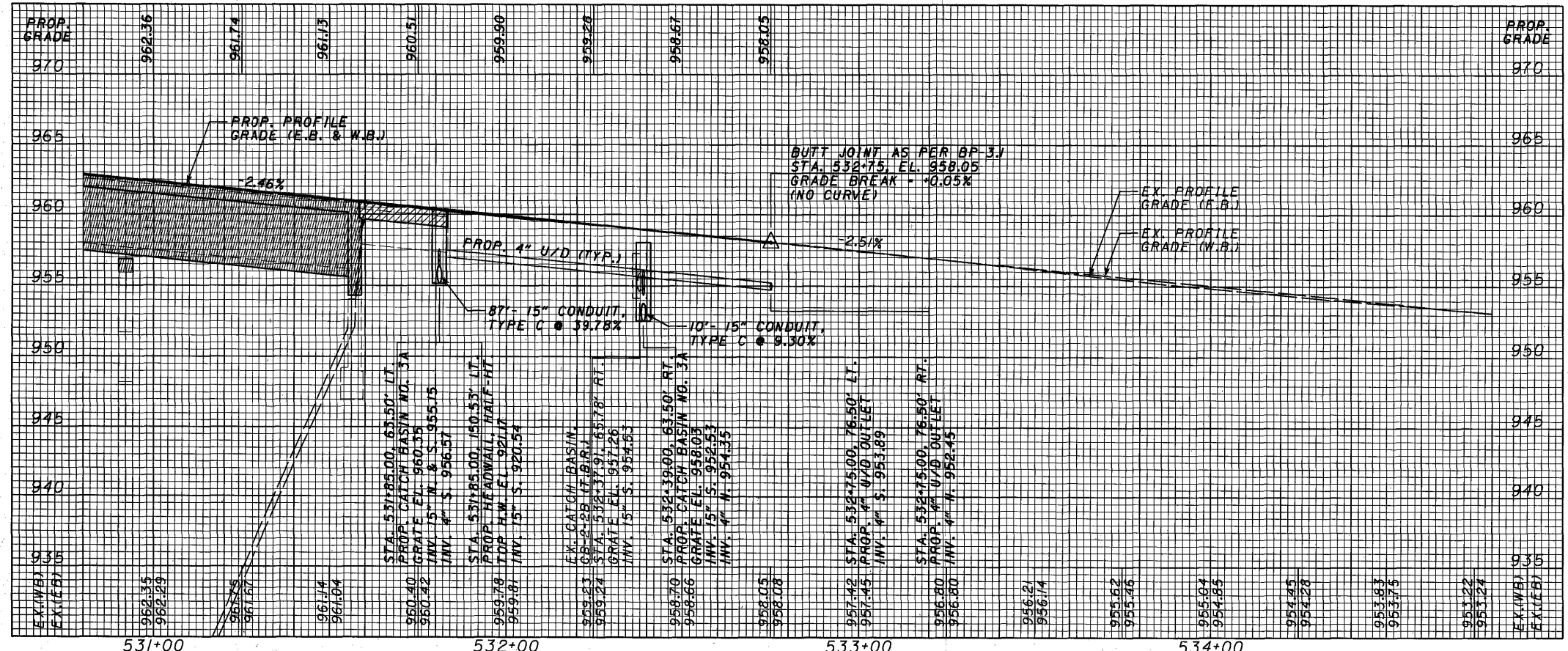
CHECKED SJS

FOR REFERENCE POINTS, SEE SHEET 2

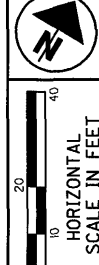
GUARDRAIL POST STATIONS		
LOCATION	BTA TYPE	STATION
C	1	531+76.69, LT.
D	1	531+76.69, LT.
E	2	531+78.80, RT.



CURVE DATA
 P.I. STA. 542+82.96
 $\Delta = 25^\circ 57' 55''$ (RT.)
 $D_c = 1^\circ 15' 00''$
 $R = 4583.66'$
 $T = 1056.76'$
 $L = 2077.22'$
 $E = 120.24'$

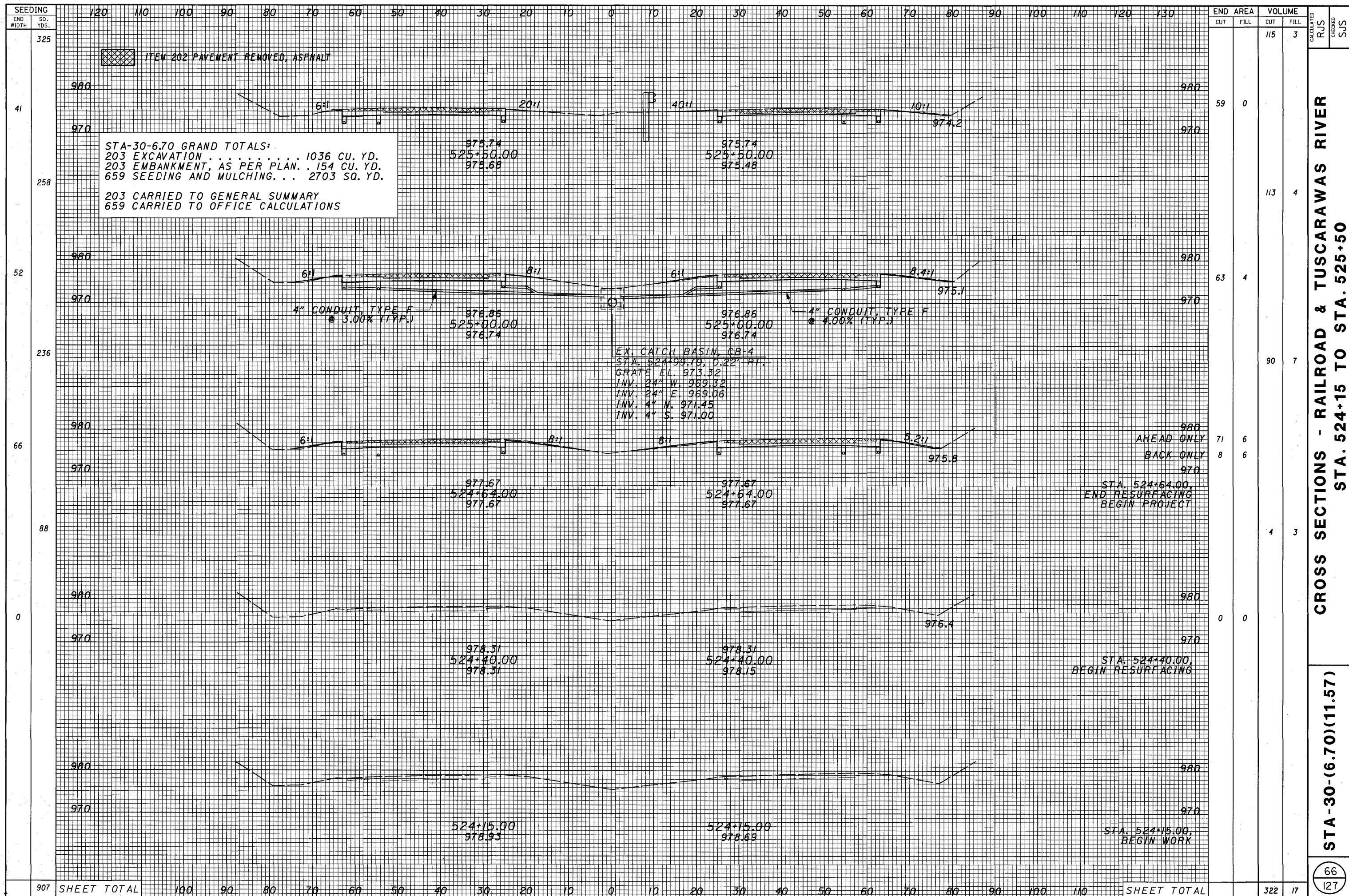


REF NO.	STATION		SIDE	ITEM	QTY	UNIT	TOTAL	STATION		TOTALS CARRIED TO GENERAL SUMMARY
	FROM	TO						STATION	QTY	
R3	531+67.48	539+08.81	LT.	C/L	75	75				
R4	532+92.95	533+66.49	RT.	C/L	381.25	381.25				
R5	531+69.50	535+56.40	RT.	C/L	8	8				
R6	532+37.91	532+37.91	RT.	C/L	58	58				
R7	531+85.38	532+42.76	RT.	C/L						
C1	531+85.38	532+43	RT.	C/L						
D2	531+85	532+39	LT.	C/L						
D3	532+39	532+39	LT.	C/L						
G3	531+70.44	539+14.48	LT.	C/L						
G4	531+70.44	534+00.39	LT.	C/L						
G5	531+72.55	535+64.81	RT.	C/L						
U17	531+85	532+75	LT.	C/L						
U18	531+83.38	532+75	LT.	C/L						
U19	531+83.38	532+75	LT.	C/L						
U20	531+85.38	532+75	RT.	C/L						
U21	531+85.38	532+75	RT.	C/L						
U22	531+85.38	532+39	RT.	C/L						
U23	532+75	532+75	LT.	C/L						
U24	532+75	532+75	LT.	C/L						
U25	532+39	532+39	RT.	C/L						
U26	531+85	532+39	LT.	C/L						
U27	532+39	532+39	RT.	C/L						
TOTALS CARRIED TO GENERAL SUMMARY										



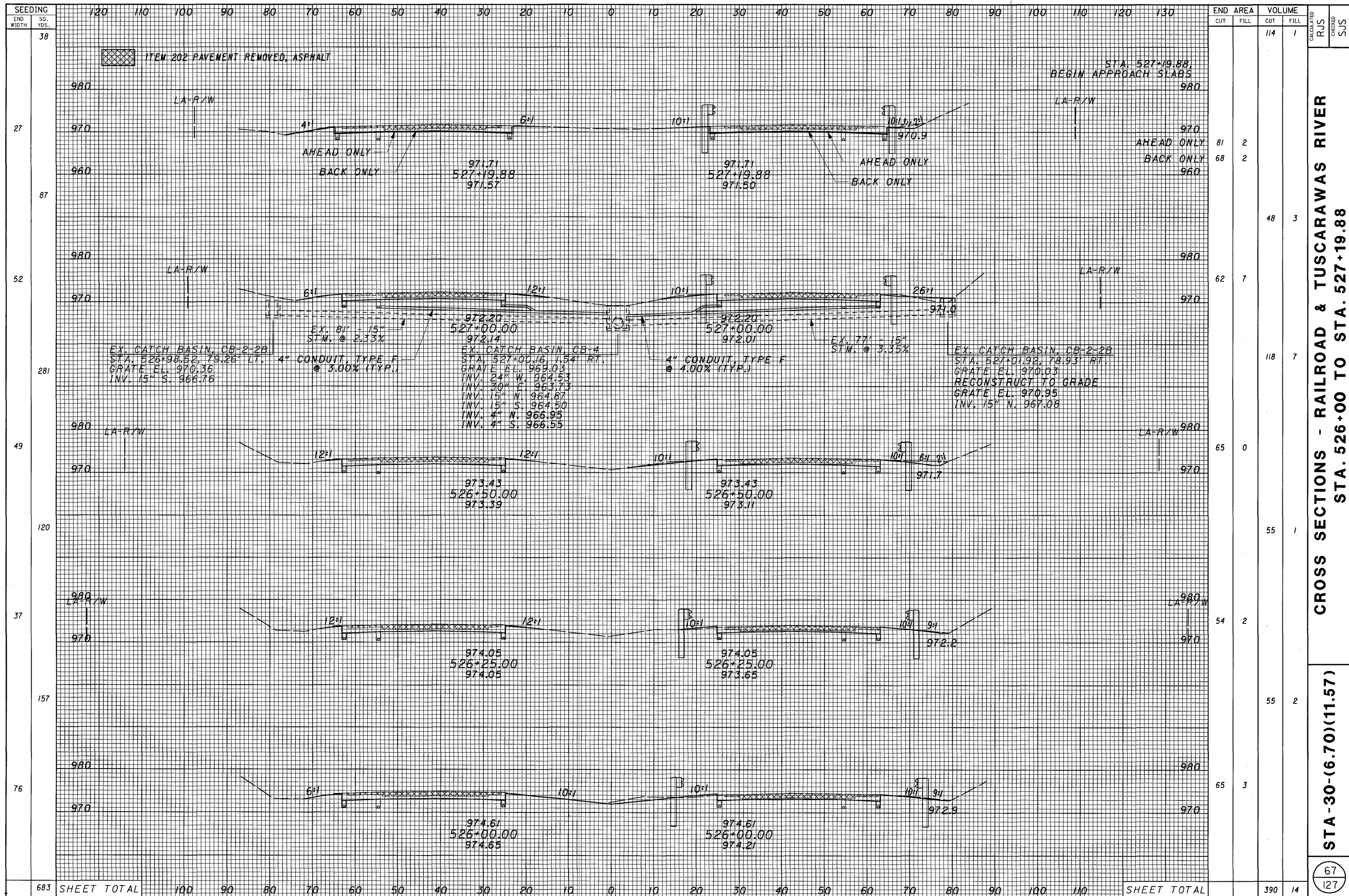
PLAN AND PROFILE - RAILROAD & TUSCARAWAS RIVER, STA. 530+80 TO STA. 534+80

STA-30-(6.70)(11.57)



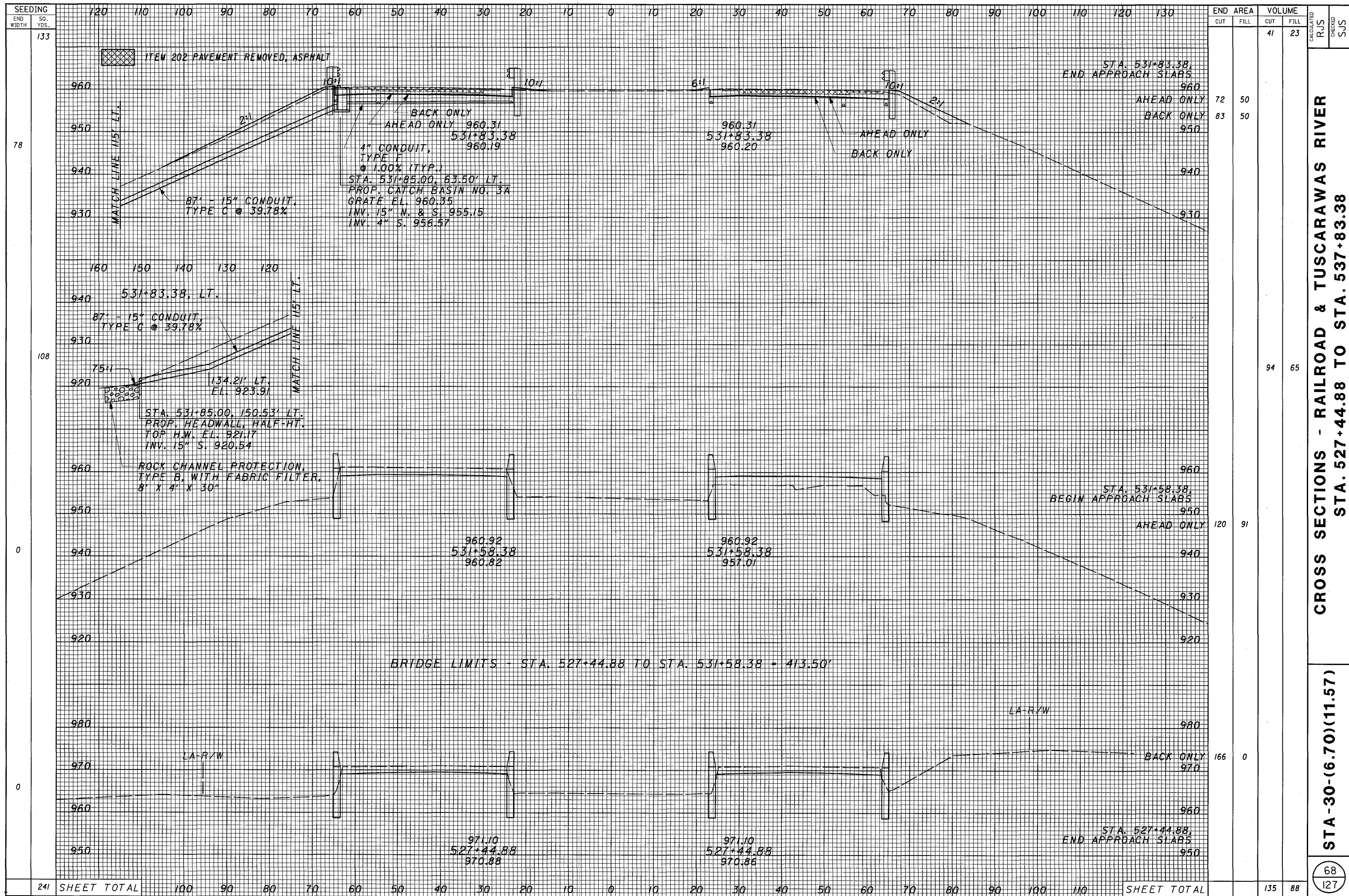
CROSS SECTIONS - RAILROAD & TUSCARAWAS RIVER
STA. 524+15 TO STA. 525+50

STA-30-(6.70)(11.57)



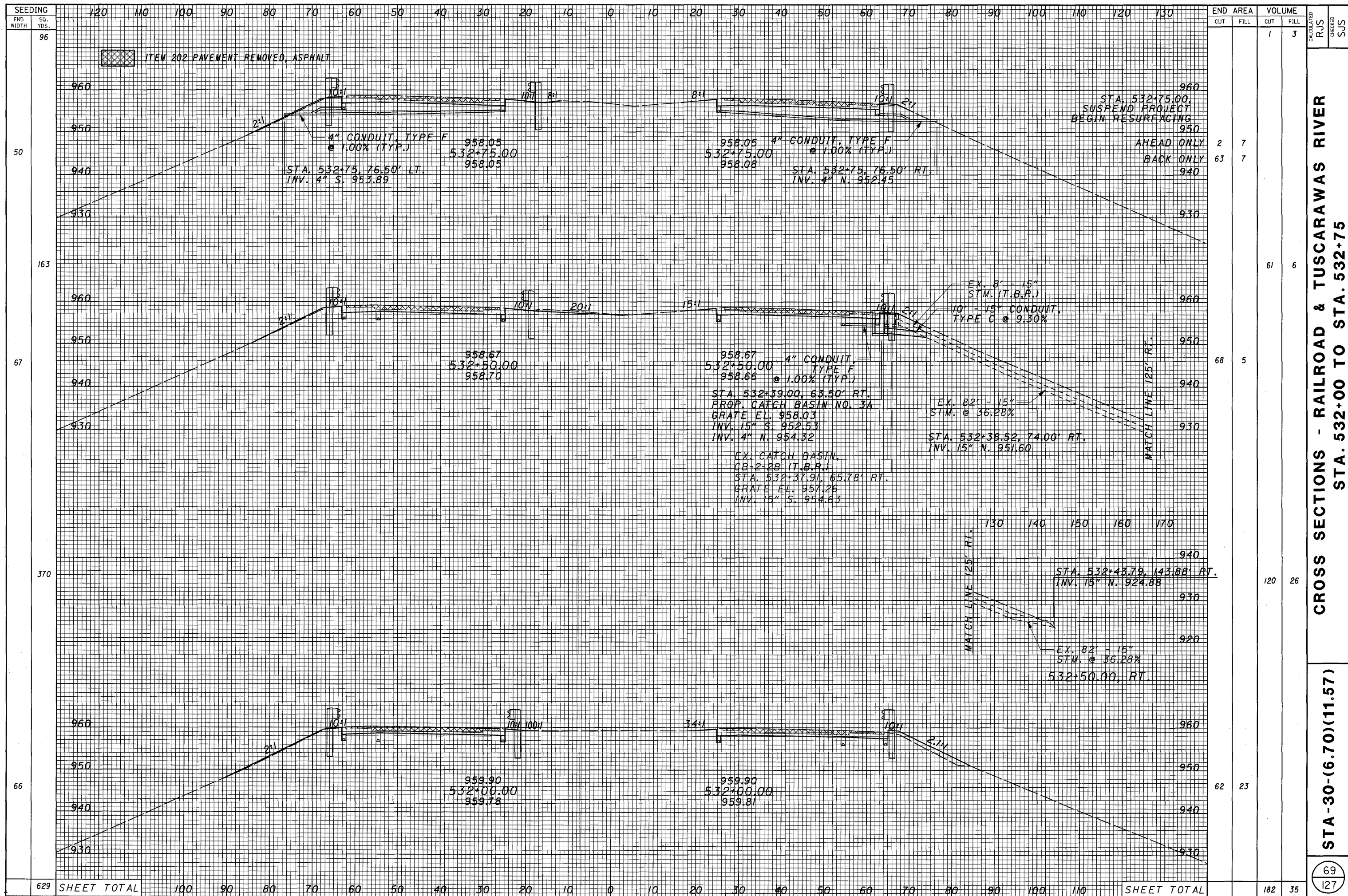
CROSS SECTIONS - RAILROAD & TUSCARAWAS RIVER
STA. 526+00 TO STA. 527+19.88

STA-30-(6.70)(11.57)



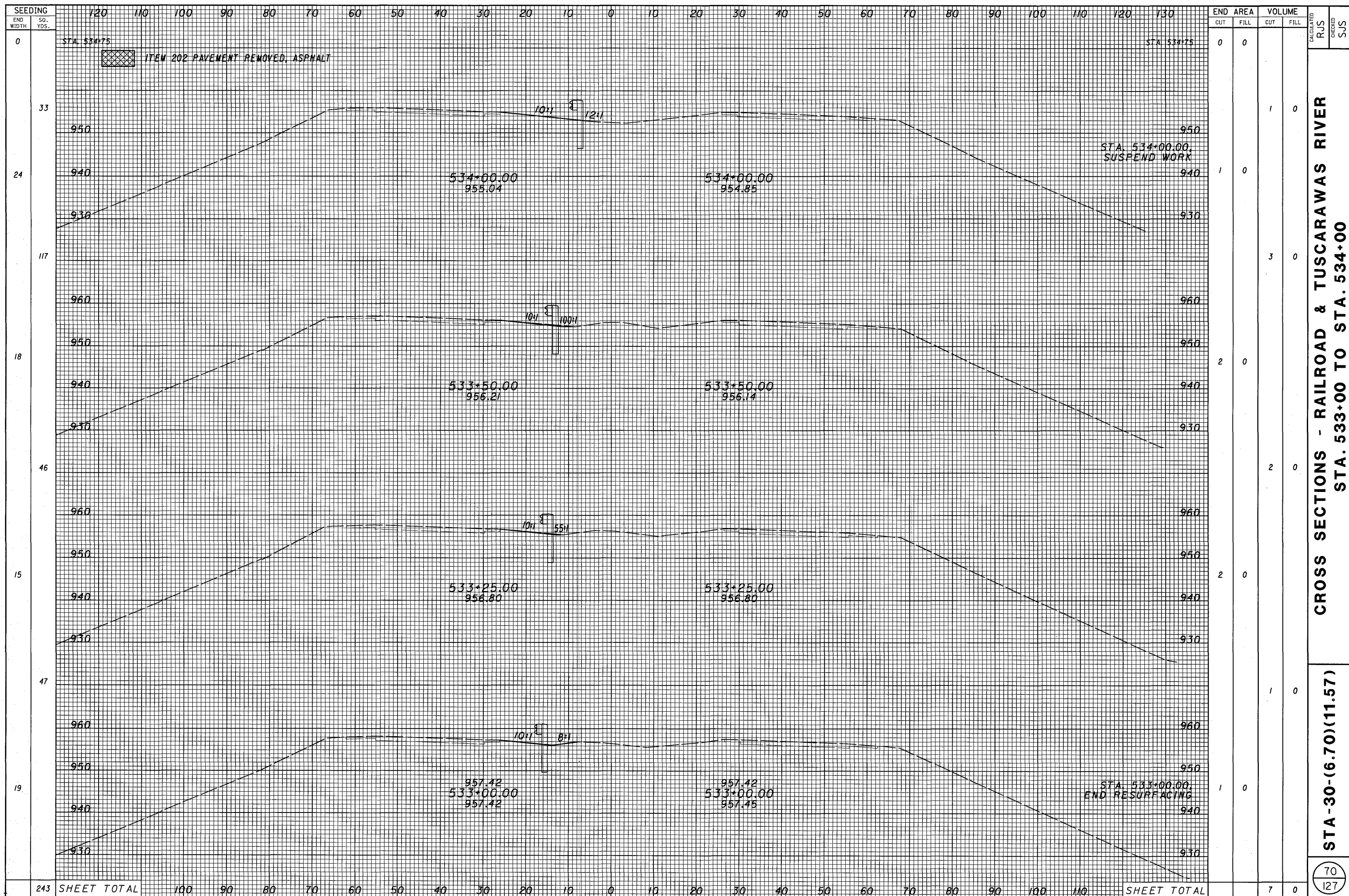
CROSS SECTIONS - RAILROAD & TUSCARAWAS RIVER
STA. 527+44.88 TO STA. 537+83.38

STA-30-(6.70)(11.57)



CROSS SECTIONS - RAILROAD & TUSCARAWAS RIVER
STA. 532+00 TO STA. 532+75

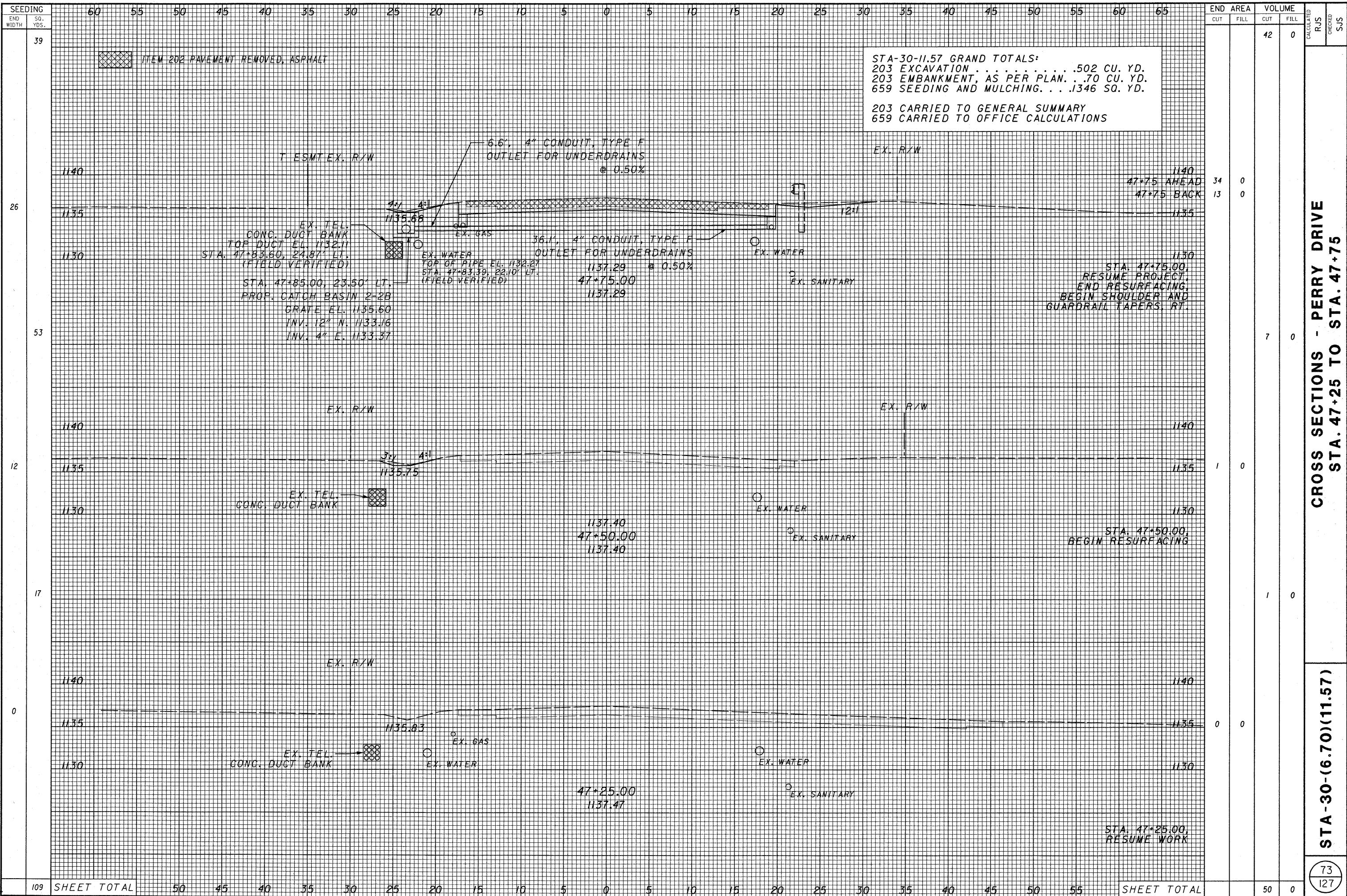
STA-30-(6.70)(11.57)



CROSS SECTIONS - RAILROAD & TUSCARAWAS RIVER
STA. 533+00 TO STA. 534+00

STA -30-(6.70)(11.57)

70
 127



STA-30-11.57 GRAND TOTALS:
 203 EXCAVATION502 CU. YD.
 203 EMBANKMENT, AS PER PLAN. . .70 CU. YD.
 659 SEEDING AND MULCHING. . .1346 SQ. YD.

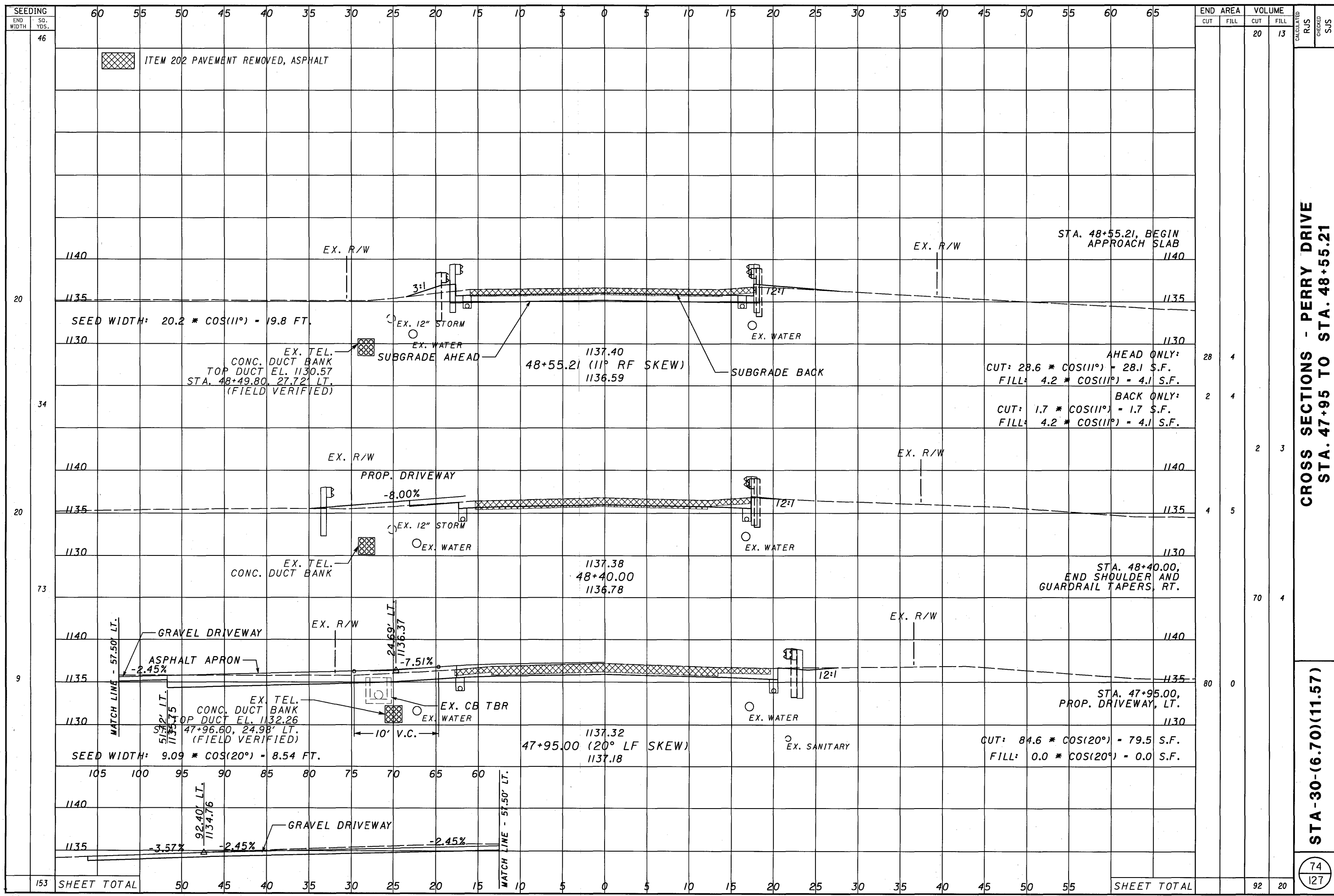
 203 CARRIED TO GENERAL SUMMARY
 659 CARRIED TO OFFICE CALCULATIONS

SEEDING END WIDTH	SQ. YDS.	END AREA		VOLUME		CALCULATED RJS	CHECKED SJS
		CUT	FILL	CUT	FILL		
39				42	0		
26				34	0		
				13	0		
53				7	0		
12				1	0		
17				1	0		
0				0	0		
109	SHEET TOTAL	50	45	50	0		

CROSS SECTIONS - PERRY DRIVE
STA. 47+25 TO STA. 47+75

STA-30-(6.70)(11.57)

73
 127



ITEM 202 PAVEMENT REMOVED, ASPHALT

STA. 48+55.21, BEGIN APPROACH SLAB

SEED WIDTH: $20.2 * \cos(11^\circ) = 19.8 \text{ FT.}$

EX. TEL. CONC. DUCT BANK
TOP DUCT EL. 1130.57
STA. 48+49.80, 27.72' LT.
(FIELD VERIFIED)

1137.40
48+55.21 (11° RF SKEW)
1136.59

AHEAD ONLY:
CUT: $28.6 * \cos(11^\circ) = 28.1 \text{ S.F.}$
FILL: $4.2 * \cos(11^\circ) = 4.1 \text{ S.F.}$

BACK ONLY:
CUT: $1.7 * \cos(11^\circ) = 1.7 \text{ S.F.}$
FILL: $4.2 * \cos(11^\circ) = 4.1 \text{ S.F.}$

PROP. DRIVEWAY
-8.00%

EX. TEL. CONC. DUCT BANK

1137.38
48+40.00
1136.78

STA. 48+40.00, END SHOULDER AND GUARDRAIL TAPERS, RT.

GRAVEL DRIVEWAY

ASPHALT APRON

MATCH LINE - 57.50' LT.

EX. TEL. CONC. DUCT BANK
TOP DUCT EL. 1132.26
STA. 47+96.60, 24.98' LT.
(FIELD VERIFIED)

1137.32
47+95.00 (20° LF SKEW)
1137.18

STA. 47+95.00, PROP. DRIVEWAY, LT.
CUT: $84.6 * \cos(20^\circ) = 79.5 \text{ S.F.}$
FILL: $0.0 * \cos(20^\circ) = 0.0 \text{ S.F.}$

SEED WIDTH: $9.09 * \cos(20^\circ) = 8.54 \text{ FT.}$

MATCH LINE - 92.40' LT.

GRAVEL DRIVEWAY

-3.57%

-2.45%

-2.45%

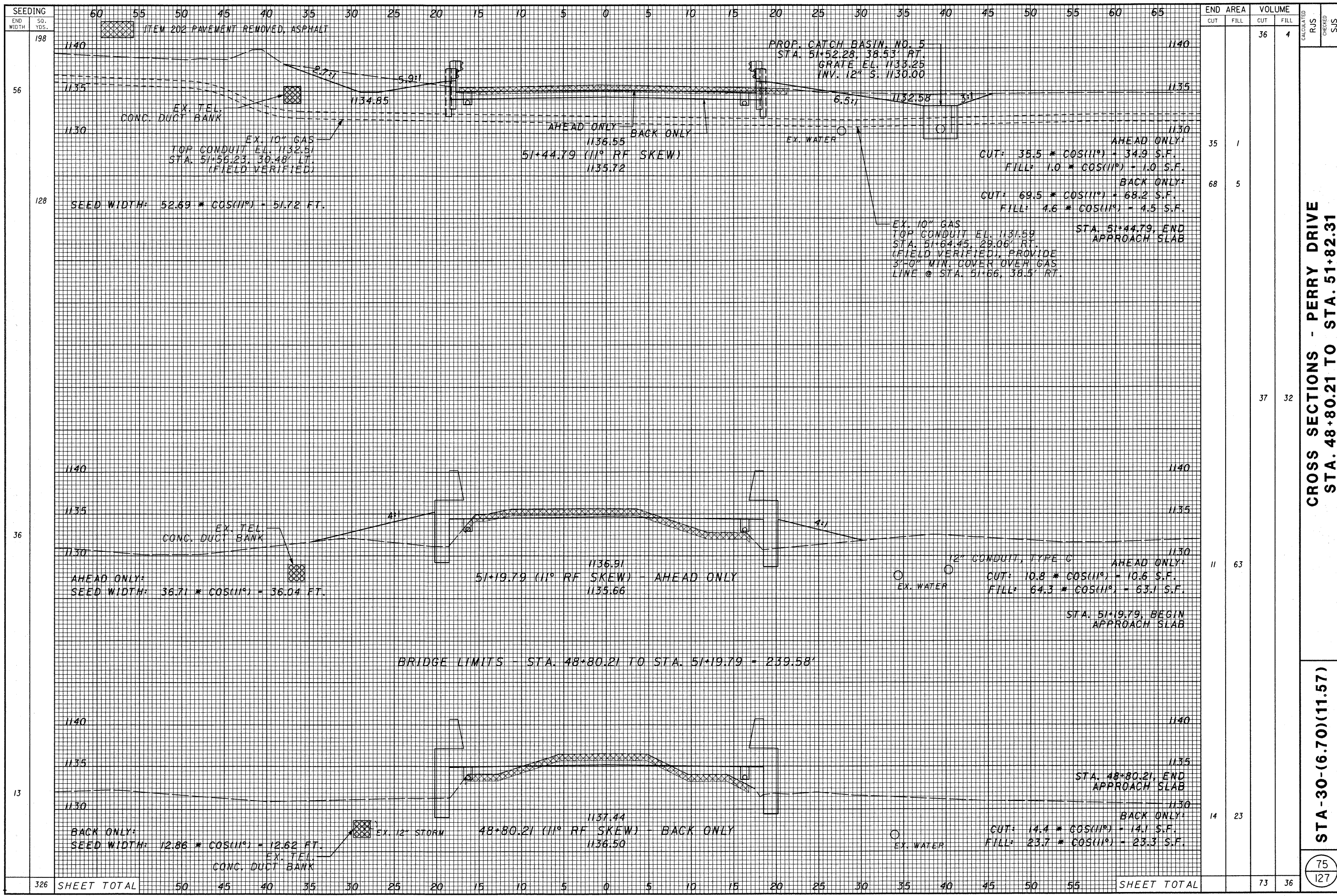
MATCH LINE - 57.50' LT.

CROSS SECTIONS - PERRY DRIVE
STA. 47+95 TO STA. 48+55.21

STA-30-(6.70)(11.57)

74
127

END CUT	AREA FILL	VOLUME		CALCULATED	RJS	CHECKED	SJS																				
		CUT	FILL																								
20		20	13																								
28	4																										
2	4																										
		2	3																								
4	5																										
70	4																										
80	0																										
153		50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	92	20

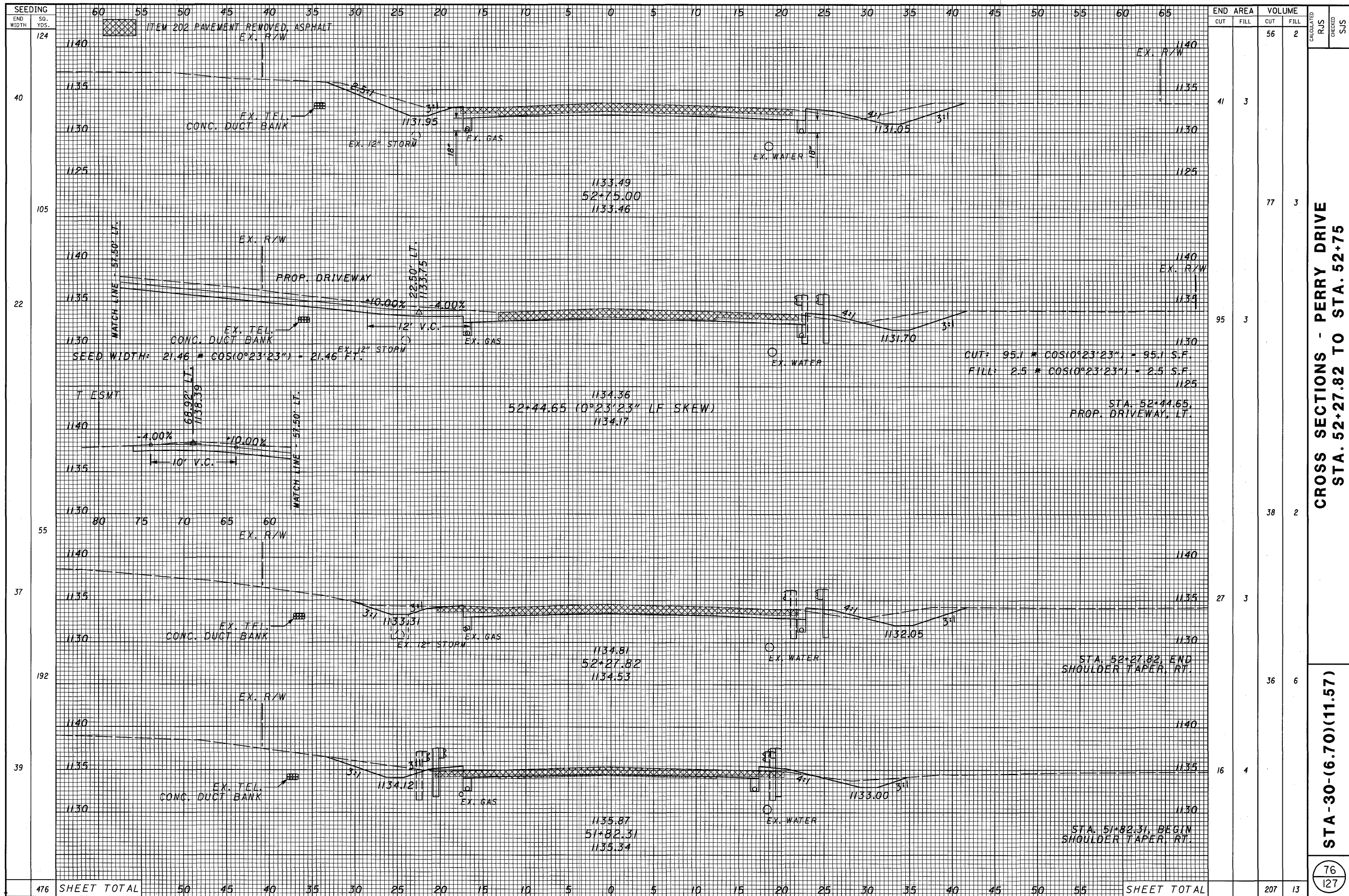


SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED RJS	CHECKED SJS
		CUT	FILL	CUT	FILL		
198	56			36	4		
128	36			37	32		
36	13			11	63		
13	326			73	36		

CROSS SECTIONS - PERRY DRIVE
STA. 48+80.21 TO STA. 51+82.31

STA -30-(6.70)(11.57)

75
 127

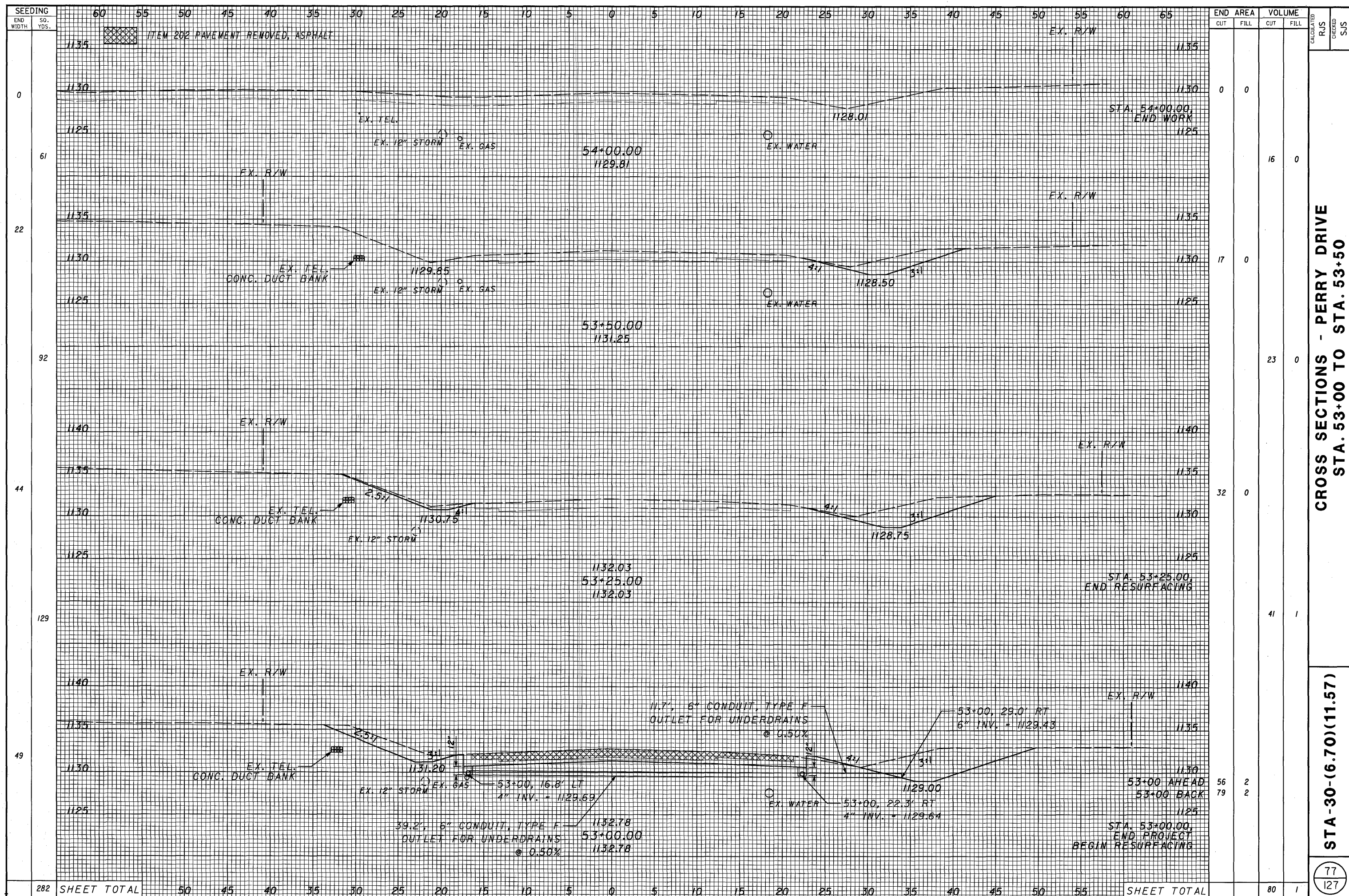


SEEDING END WIDTH	SO. YDS.	END AREA		VOLUME		CALCULATED RUS	CHECKED SUS
		CUT	FILL	CUT	FILL		
124				56	2		
40				41	3		
105				77	3		
22				95	3		
55				38	2		
37				27	3		
192				36	6		
39				16	4		
476	SHEET TOTAL			207	13		

CROSS SECTIONS - PERRY DRIVE
STA. 52+27.82 TO STA. 52+75

STA-30-(6.70)(11.57)

76
127



END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
0	0				
16	0				
17	0				
23	0				
32	0				
41	1				
56	2				
79	2				
80	1				

CROSS SECTIONS - PERRY DRIVE
STA. 53+00 TO STA. 53+50

STA -30-(6.70)(11.57)

77
 127

282 SHEET TOTAL

SHEET TOTAL

SUPERELEVATION TABLE

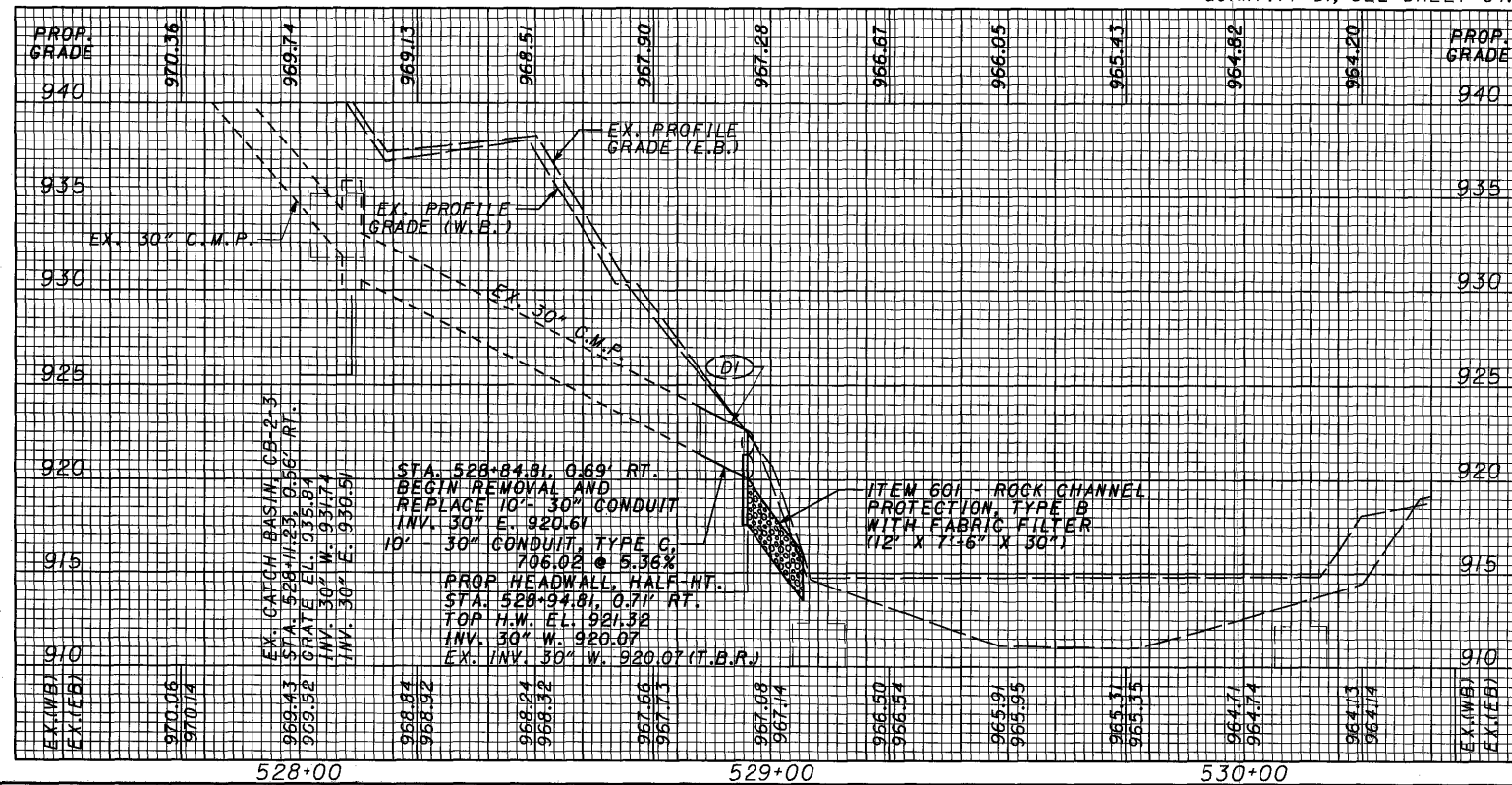
P.I. STATION = 542+82.86 Dc = 1°15'00"

EDGE ELEVATION	WESTBOUND LANES									STATION	EASTBOUND LANES									REMARKS				
	LEFT LANE				PAVEMENT CENTERLINE ELEVATION	RIGHT LANE					PROFILE GRADE	LEFT LANE				PAVEMENT CENTERLINE ELEVATION	RIGHT LANE				EDGE ELEVATION			
	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH (FEET)		TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH (FEET)			TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH (FEET)		TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE			WIDTH (FEET)		
962.48		+0.00	-0.0160	12.00	962.67		+0.19	+0.0160	12.00	962.48	530+95.00	962.48	12.00	+0.0160	+0.19		962.67	12.00	-0.0160	0.00		962.48	N.C.	
962.38		+0.02	-0.0143		962.55					962.36	531+00.00	962.36		+0.0143	+0.17		962.53			-0.02			962.34	
961.86		+0.12	-0.0060		961.93					961.74	531+25.00	961.74		+0.0060	+0.07		961.81				-0.12		961.62	
961.49		+0.19	0.0000		961.49					961.30	531+43.00	961.30		0.0000	0.00		961.30				-0.19		961.11	1/2 LEVEL
961.35		+0.22	+0.0023		961.32					961.13	531+50.00	961.13		-0.0023	-0.03		961.10				-0.22		960.91	
960.83	250:1	+0.32	+0.0107		960.70					960.51	531+75.00	960.51		-0.0107	-0.13		960.38				-0.32		960.19	
960.50		+0.38	+0.0160		960.31		+0.19	+0.0160		960.12	531+91.00	960.12		-0.0160	-0.19	250:1	959.93			-0.0160	-0.38		959.74	R.C.
960.32		+0.42	+0.0175		960.11		+0.21	+0.0175		959.90	532+00.00	959.90		-0.0175	-0.21		959.69			-0.0175	-0.42		959.48	
959.80		+0.52	+0.0217		959.54		+0.26	+0.0217		959.28	532+25.00	959.28		-0.0217	-0.26		959.02			-0.0217	-0.52		958.76	
959.77		+0.52	+0.0219		959.51	250:1	+0.26	+0.0219		959.25	532+26.20	959.25		-0.0219	-0.26		958.99			-0.0219	-0.52	250:1	958.73	P.C.
959.29		+0.62	+0.0258		958.98		+0.31	+0.0258		958.67	532+50.00	958.67		-0.0258	-0.31		958.36			-0.0258	-0.62		958.05	
958.77		+0.72	+0.0300	12.00	958.41		+0.36	+0.0300	12.00	958.05	532+75.00	958.05	12.00	-0.0300	-0.36		957.69	12.00	-0.0300	-0.72		957.33	MATCH EXISTING	

NOTE:
BEGIN FULL SUPERELEVATION AT STATION 533+23.00 (e_{max} = 0.04)

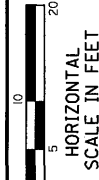
STORM SEWER PROFILE

NOTE: FOR BALLOON REFERENCED QUANTITY DI, SEE SHEET 64.



SUPERELEVATION TABLE &
 STORM SEWER PROFILE

STA-30-(6.70)
 (11.57)

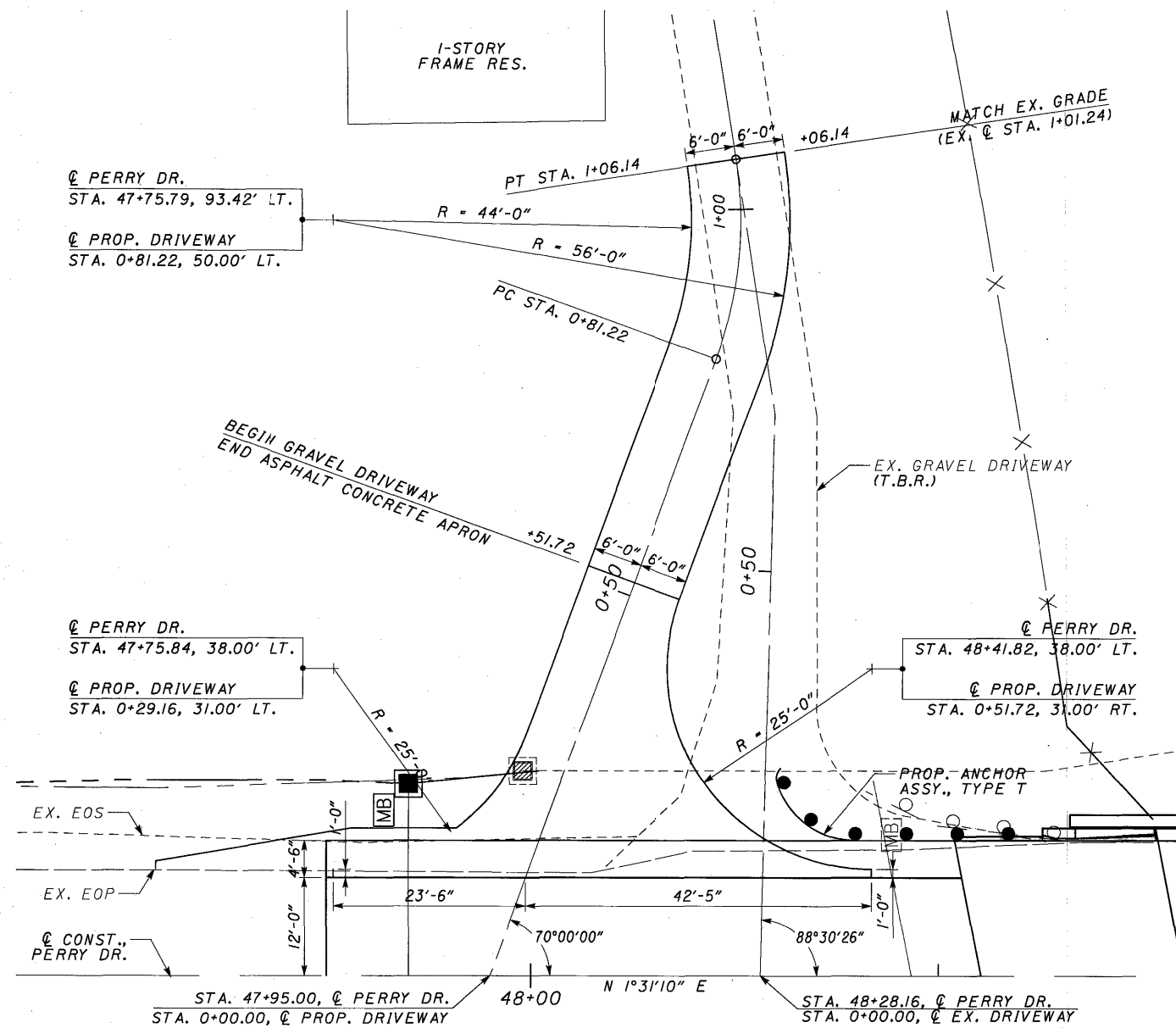


CALCULATED
RJS
CHECKED
SJS

DRIVEWAY DETAILS - PERRY DRIVE
STA. 47+95 AND STA. 52+44.65

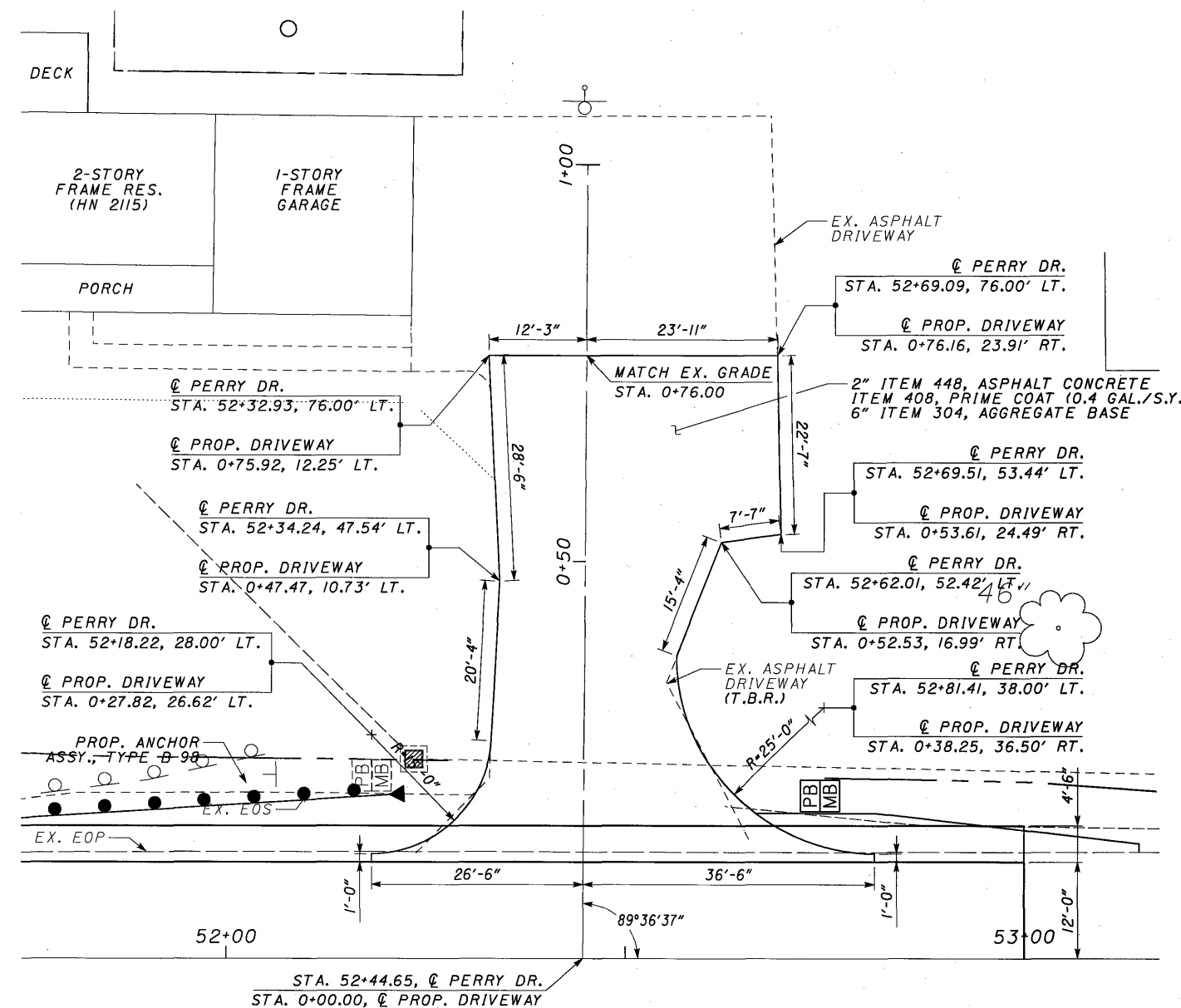
STA-30-(6.70)(11.57)

79
127



RESIDENTIAL DRIVEWAY DETAIL

STA. 47+95.00



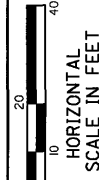
RESIDENTIAL DRIVEWAY DETAIL

STA. 52+44.65

** SUM FOR ALL THICKNESSES

DRIVEWAY COMPOSITIONS
 RESIDENTIAL - ASPHALT
 2" 448 ASPHALT CONCRETE SUR. COURSE
 TYPE I, PG64-22
 408 PRIME COAT, 0.4 GAL./SQ. YD.
 6" 304 AGGREGATE BASE
 204 SUBGRADE COMPACTION
 RESIDENTIAL - GRAVEL *
 8" 304 AGGREGATE BASE
 204 SUBGRADE COMPACTION
 * USE SAME BUILD UP AS RESIDENTIAL - ASPHALT FOR APRON AREA

SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	DRIVEWAY LENGTH	WIDTH "W"	TOTAL DRIVE AREA	APRON AREA	NON-APRON AREA	202	204	304		408	448	
										PAVEMENT REMOVED, ASPHALT	SUBGRADE COMPACTION	8" AGGREGATE BASE, AS PER PLAN	6" AGGREGATE BASE, AS PER PLAN	PRIME COAT, 0.4 GAL./SQ. YD.	2" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22 (DRIVEWAYS)	
							SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	CU. YD.	CU. YD.	GAL.	CU. YD.	
71	DR-1	47+95.00	LT	RES-GRAVEL	88.59	12.0	145.78	73.22	72.56		145.78	16.1	12.2	29.3	4.1	
72	DR-2	52+44.65	LT	RES-ASPHALT	64.00	22.63	199.46			199.46	199.46		33.2	79.8	11.1	
TOTALS											199.5	345.2	16.1	45.4	109.1	15.2
TOTALS CARRIED TO GENERAL SUMMARY											200	346	62**		109	16

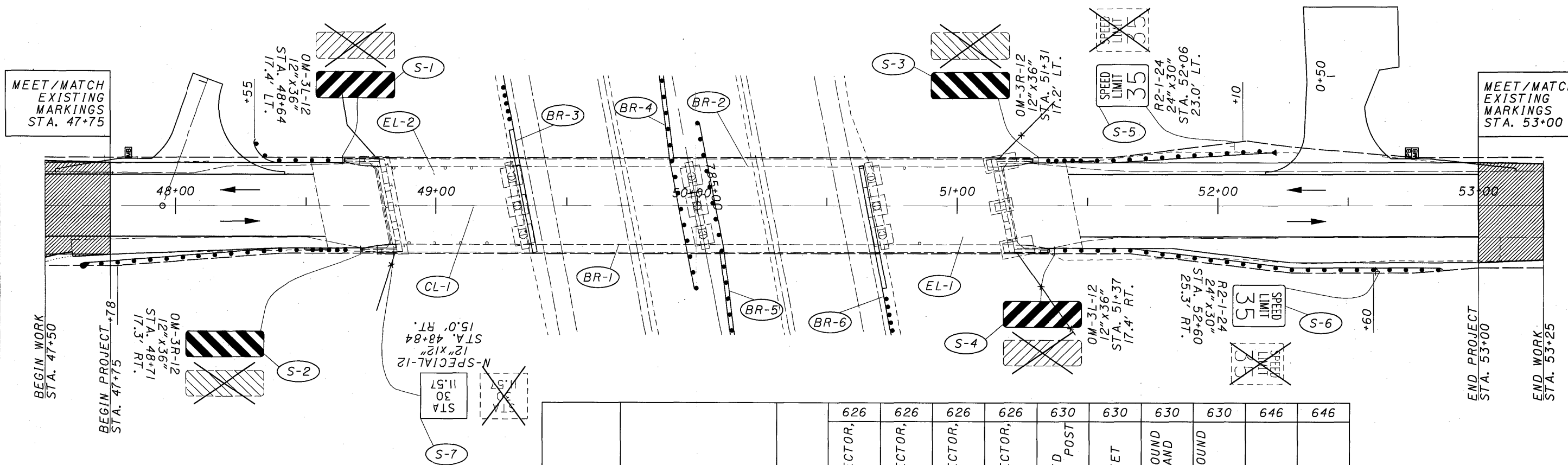


CALCULATED
SMM
CHECKED
MOW

**SIGNING AND MARKING PLAN
PERRY DRIVE**

**STA-30-(6.70)
(11.57)**

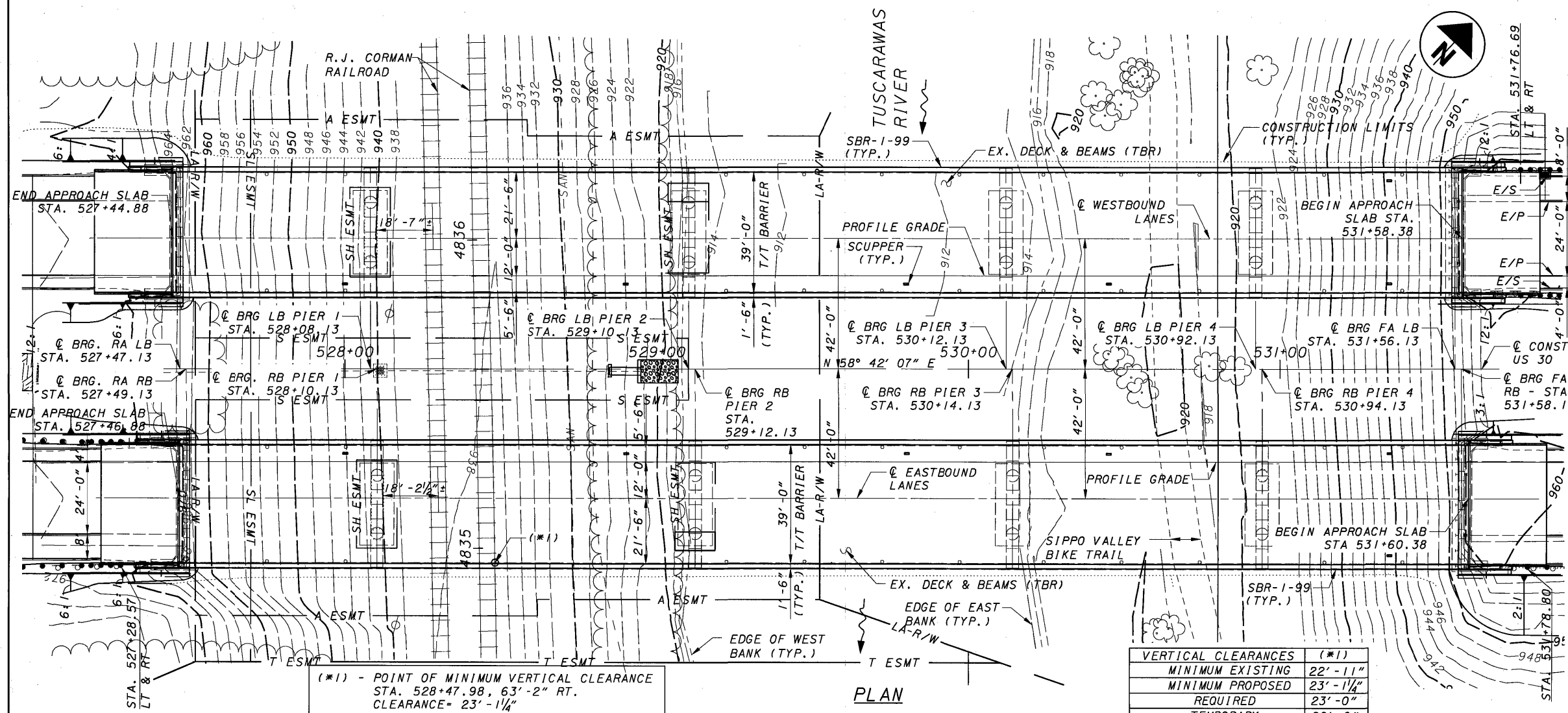
80
127



REF. NO.	STATION		SIDE	626	626	626	626	630	630	630	630	646	646
	FROM	TO		BARRIER REFLECTOR, TYPE A	BARRIER REFLECTOR, TYPE B	BARRIER REFLECTOR, TYPE A2	BARRIER REFLECTOR, TYPE B2	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	EDGE LINE	CENTER LINE
				EACH	EACH	EACH	EACH	FEET	SQ FT	EACH	EACH	MILE	MILE
BR-1	47+78	52+60	RT.			3	3						
BR-2	48+55	52+10	LT.			3	3						
BR-3	783+10	785+11	RT.	2	1								
BR-4	782+56	785+37	RT.	6									
BR-5	784+74	787+55	LT.	6									
BR-6	785+01	786+79	LT.	2	1								
CL-1	47+75	53+00	C.										0.1
EL-1	47+75	53+00	RT.									0.1	
EL-2	47+75	53+00	RT.									0.1	
S-1	48+64		LT.					14	3	1	1		
S-2	48+71		RT.					14	3	1	1		
S-3	51+31		LT.					14	3	1	1		
S-4	51+37		RT.					14	3	1	1		
S-5	52+06		LT.					14	5	1	1		
S-6	52+60		RT.					14	5	1	1		
S-7	48+84		RT.					1	1	1	1		
GRAND TOTAL CARRIED TO GENERAL SUMMARY				16	2	6	6	84	23	7	6	0.2	0.1

LEGEND

- CENTER LINE, DOUBLE SOLID, YELLOW
- EDGE LINE, WHITE
- BARRIER REFLECTOR
- PROPOSED SIGN
- PROPOSED SIGN
- EXISTING SIGN TO BE REMOVED AND DISPOSED



PLAN

(*1) - POINT OF MINIMUM VERTICAL CLEARANCE
 STA. 528+47.98, 63'-2" RT.
 CLEARANCE = 23'-1 1/4"

VERTICAL CLEARANCES (*1)	
MINIMUM EXISTING	22'-11"
MINIMUM PROPOSED	23'-1 1/4"
REQUIRED	23'-0"
TEMPORARY	22'-0"

- NOTES:
- EARTHWORK LIMITS ARE APPROXIMATE, ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS
 - FOR ABBREVIATIONS SEE SHEET 2722
 - RCP INCLUDED WITH ROADWAY QUANTITIES

HORIZONTAL CURVE DATA	
P.I. Sta	= 542+82.96
D	= 25° 57' 55" (RT)
Dc	= 1° 15' 00"
R	= 4,583.66'
T	= 1,056.76'
L	= 2,077.22'
E	= 120.24'

BENCHMARK DATA	
BMI: NO. 5 REBAR WITH RED CAP	STA. 527+22.38, 2.52' LT EL. 970.77
BMI2: NO. 4 REBAR IN CONCRETE	STA. 532+26.20, @ US 30 EL. 957.22

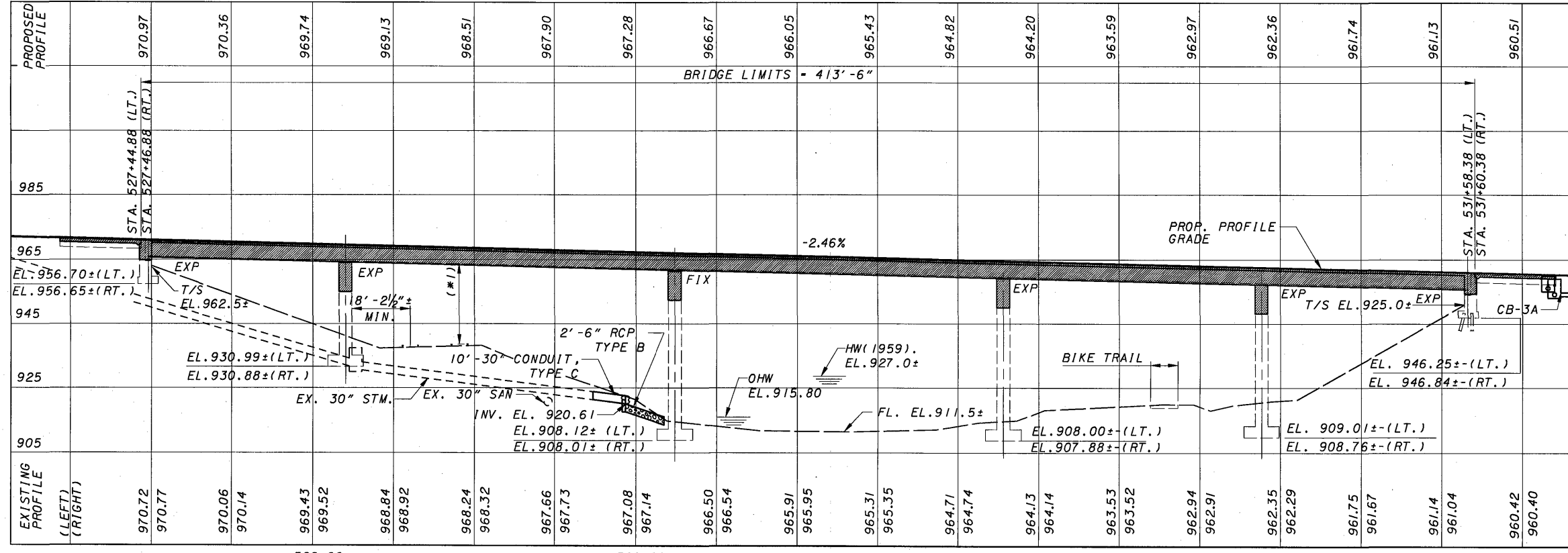
HYDRAULIC DATA	
DRAINAGE AREA	= 570 SQ. MILES
FLOW ELEVATION	= 911.5±
ORDINARY HIGH WATER	= 915.80±
HIGH WATER ELEVATION (1959)	= 927.0±

TRAFFIC DATA	
CURRENT ADT (2006)	= 19,800
CURRENT ADTT (2006)	= 4356
DESIGN ADT (2026)	= 25,200
DESIGN ADTT (2025)	= 5544

EXISTING STRUCTURE	
TYPE:	CONTINUOUS STEEL GIRDER WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPAN:	61'; 102'; 102'; 80'; 64' C/C BEARINGS
ROADWAY:	40'-0" F/F BARRIER
SKEW:	NONE
LOADING:	HS20-44
ALIGNMENT:	TANGENT
WEARING SURFACE:	LATEX MODIFIED CONCRETE
APPROACH SLABS:	AS-1-67 (25' LONG)
DATE BUILT:	1969
STRUCTURE FILE NO.:	7607385 LT. 7607369 RT.

- PROPOSED WORK
- REMOVE EXISTING DECK, GIRDERS AND PORTION OF ABUTMENTS
 - CONVERT ABUTMENTS TO SEMI-INTEGRAL
 - RECONSTRUCT PIER CAPS
 - REPLACE BEARINGS WITH ELASTOMERIC BEARINGS
 - SET NEW BEAMS
 - CONSTRUCT A NEW COMPOSITE DECK 39' WIDE T/T BARRIER
 - SEAL CONCRETE SURFACES
 - CONSTRUCT FULL WIDTH APPROACH SLABS
 - COMPLETE ROADWORK ITEMS TO FINISH THE PROJECT

PROPOSED STRUCTURE	
TYPE:	PRESTRESSED CONCRETE I-BEAMS ON SEMI-INTEGRAL ABUTMENTS WITH REINFORCED CONCRETE DECK
SPAN:	61'; 102'; 102'; 80'; 64' C/C BEARINGS
ROADWAY:	39'-0" T/T BARRIER
SKEW:	NONE
LOADING:	SUPERSTRUCTURE - HS25, SUBSTRUCTURE - HS-20, ALTERNATE MILITARY LOADING AND FWS OF 60#/SF
ALIGNMENT:	TANGENT
WEARING SURFACE:	MONOLITHIC CONCRETE
APPROACH SLABS:	AS-1-81 (25' LONG)
LONGITUDE:	81° 32' 03"
LATITUDE:	40° 45' 29"



PROFILE ALONG EASTBOUND & WESTBOUND PROFILE GRADE LINE

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

DATE: 12/2005
 M.L.M.
 STRUCTURE FILE NUMBER: 7607385 LT., 7607369 RT.

DESIGNED: JEP
 CHECKED: KCS

STAR COUNTY: STA 527+44.88
 STA 531+58.38

SITE PLAN: BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD

STA-30-(6.70)(11.57)
 PID 23754

1/22
 81
 127

GENERAL NOTES

REFERENCE SHALL BE MADE TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-81 REVISED 07-19-02
 PSD-1-99 REVISED 07-18-03
 SBR-1-99 REVISED 07-19-02
 SICD-1-96 REVISED 07-19-02

AND TO SUPPLEMENTAL SPECIFICATIONS:

843 DATED 04-18-2003

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, AND THE O.D.O.T. BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HS25 (SUPERSTRUCTURE); HS 20 (SUBSTRUCTURE) AND THE ALTERNATE MILITARY LOADING.

FUTURE WEARING SURFACE (FWS) OF 60 PSF.

DESIGN STRESSES:

CONCRETE CLASS HP - COMPRESSIVE STRENGTH 4500 P.S.I. (SUPERSTRUCTURE)
 CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 P.S.I. (SUBSTRUCTURE)
 REINFORCING STEEL - ASTM A615 OR A996
 GRADE 60 - MINIMUM YIELD STRENGTH 60,000 P.S.I.
 MISCELLANEOUS STEEL - (LOAD PS, COVER PS, HP SECTIONS):
 GRADE 36 - MINIMUM YIELD STRENGTH 36,000 P.S.I.

DESIGN DATA:

CONCRETE FOR PRESTRESSED BEAMS:
 COMPRESSIVE STRENGTH (FINAL) - 7000 PSI
 COMPRESSIVE STRENGTH (RELEASE) - 5000 PSI

PRESTRESSING STRAND:

AREA = 0.167 SQUARE INCHES
 ULTIMATE STRENGTH = 270 KSI
 INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL
 2-1/2" CONCRETE COVER
 CLASS HP CONCRETE

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK

ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN:

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF THE HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

AN ASBESTOS SURVEY WAS COMPLETED FOR DISTRICT 4 BY EMERALD ENVIRONMENTAL. NO ASBESTOS WAS FOUND. A REPORT WILL BE PROVIDED TO THE CONTRACTOR BY THE DISTRICT AT THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL FILL OUT THE REMAINDER OF THE NOTIFICATION OF DEMOLITION AND RENOVATION FORM AND SUBMIT IT TO THE OHIO EPA DIVISION OF AIR POLLUTION CONTROL, 420 MARKET AVE., NORTH CANTON, OHIO 44702, ATTENTION DAN ALEMAN, ADMINISTRATOR, (P) 330-489-3395 AND (F) 330-489-3335. ALL COST ASSOCIATED WITH THIS FORM SHALL BE INCLUDED IN ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE

EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

CONSTRUCTION CLEARANCE:

MAINTAIN A CONSTRUCTION CLEARANCE OF 15 FEET HORIZONTALLY FROM THE CENTER OF THE RAILROAD TRACKS AND 21 FEET VERTICALLY FROM A POINT LEVEL WITH THE TOP OF THE HIGHER RAIL, AND 10 FEET FROM THE CENTER OF TRACKS, AT ALL TIMES.

UTILITY LINES:

THE UTILITY(IES) SHALL BORE ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

RAILROAD AERIAL LINES:

RAILROAD AERIAL LINES WILL BE RELOCATED BY THE RAILROAD. USE ALL PRECAUTIONS NECESSARY TO SEE THAT THE LINES ARE NOT DISTURBED DURING THE CONSTRUCTION STAGE AND COOPERATE WITH THE RAILROAD IN THE RELOCATION OF THESE LINES. THE COST OF THE RELOCATION WILL BE INCLUDED IN THE RAILROAD FORCE ACCOUNT WORK.

REINFORCING BAR MINIMUM LAP LENGTHS:

REINFORCING BARS, UNLESS OTHERWISE SHOWN IN THESE PLANS, SHALL HAVE MINIMUM LAP LENGTHS AS FOLLOWS:

#4 BARS - 1'-11"
 #5 BARS - 2'-5"
 #6 BARS - 2'-11"
 #8 BARS - 4'-11"
 #10 BARS - 7'-11"

ITEM 516, SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN:

INSTALL A 3 FOOT WIDE NEOPRENE SHEET AT LOCATIONS SHOWN IN THE PLANS. SECURE THE NEOPRENE SHEETING TO THE CONCRETE WITH 1/4" X #10 GAGE (LENGTH X SHANK DIA.) GALVANIZED BUTTON HEAD SPIKE THROUGH A 1 INCH OUTSIDE DIAMETER, # 10 GAGE GALVANIZED WASHER, MAXIMUM FASTENER WILL NOT DAMAGE EITHER THE NEOPRENE OR THE CONCRETE WILL BE USED SUBJECT TO APPROVAL OF THE ENGINEER.

CENTER THE NEOPRENE STRIPS ON ALL JOINTS. FOR HORIZONTAL JOINTS, SECURE THE HORIZONTAL NEOPRENE STRIP BY USING A SINGLE LINE OF FASTENERS, STARTING AT 6 INCHES (+/-) FROM THE NEOPRENE STRIP. FOR THE VERTICAL JOINTS SECURE THE VERTICAL NEOPRENE STRIP BY USING A SINGLE VERTICAL LINE OF FASTENERS, STARTING AT 6 INCHES (+/-) FROM THE VERTICAL EDGE OF THE NEOPRENE STRIP NEAREST TO THE CENTERLINE OF ROADWAY. FOR VERTICAL JOINTS, INSTALL 2 ADDITIONAL FASTENERS AT 6 INCHES CENTER TO CENTER, ACROSS THE TOP OF THE NEOPRENE STRIP ON THE SAME SIDE OF THE VERTICAL JOINT AS THE SINGLE VERTICAL ROW OF FASTENERS IS LOCATED.

THE VERTICAL NEOPRENE STRIPS SHALL COMPLETELY OVERLAP THE HORIZONTAL STRIPS. LAP LENGTHS OF THE HORIZONTAL STRIPS THAT ARE NOT VULCANIZED OR ADHESIVE BONDED, SHALL BE AT LEAST ONE FOOT IN LENGTH, OR 6 INCHES IN LENGTH IF THE LAP IS VULCANIZED OR ADHESIVE BONDED. NO LAPS ARE ACCEPTABLE IN VERTICALLY INSTALLED NEOPRENE STRIPS.

THE NEOPRENE SHEETING SHALL BE 3/32 INCH THICK GENERAL PURPOSE, HEAVY DUTY NEOPRENE SHEET WITH NYLON FABRIC REINFORCEMENT. THE SHEETING SHALL BE "FAIRPRENE NUMBER NN-0003", BY E.I. DUPONT DE NEMOURS AND COMPANY, INC., "WINGPRENE BY THE GOODYEAR TIRE AND RUBBER COMPANY, OR AN APPROVED ALTERNATE. THE NEOPRENE SHEETING SHALL CONFORM TO THE FOLLOWING:

DESCRIPTION OF TEST	ASTM METHOD	REQUIREMENT
THICKNESS, INCHES	D 751	0.094 +/- .01
BREAKING STRENGTH, GRAB, LBS, MINIMUM	D 751	700 X 700
ADHESIVE STRIP, 1" WIDE X 2" LONG, LBS, MINIMUM	D 751	9
BURST STRENGTH, PSI, MINIMUM	D 751	1400
HEAT AGING, 70 HOURS, T 212°F, 180 BEND WITHOUT CRACKING	D 2136	NO CRACKING OF COATING
LOW TEMPERATURE BRITTLINESS, 1 HOUR AT -40° F, BEND AROUND 1/4 INCH MANDREL	D 2136	NO CRACKING OF COATING

THE DEPARTMENT WILL MEASURE THE TOTAL LENGTH OF JOINT TO BE SEALED BY THE NUMBER OF FEET.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN.

ITEM 511, CLASS HP CONCRETE, BRIDGE DECK, AS PER PLAN

GENERAL REQUIREMENTS.

THE PROVISIONS OF ITEM 511 SHALL APPLY EXCEPT AS NOTED BELOW.

MIX OPTION.

ALL SUPERSTRUCTURE, BRIDGE DECK, SIDEWALK, AND PARAPET CONCRETE SHALL BE THIS MIX (HP4, AS PER PLAN)

THE FOLLOWING PROPORTIONS WILL BE USED AS A STARTING MIX DESIGN.

CONCRETE TABLE
 QUANTITIES PER CUBIC YARD
 AGGREGATES (SSD)

HP4, AS PER PLAN (GGBF SLAG + MICROSILICA)									
AGGREGATE TYPE	FINE AGGRE (lb)	**8 COURSE AGGRE (lb)	**57 COARSE AGGRE. (lb)	TOTAL (lb)	CEMENT CONTENT (lb)	GGBF SLAG (lb)	MICRO-SILICA (lb)	WATER TO CEMENTITIOUS RATIO +/-	AIR CONTENT +/- %
GRAVEL	1245	360	1315	2920	400	170	30	0.43	7
LIMESTONE	1245	360	1335	2940	400	170	30	0.43	7
SLAG	1245	315	1155	2715	400	170	30	0.43	7

* ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED PER ASTM C127

THE WEIGHTS SPECIFIED IN THE CONCRETE TABLE WERE CALCULATED FOR MATERIALS OF THE FOLLOWING BULK SPECIFIC GRAVITIES (SSD): NATURAL SAND AND GRAVEL 2.62, LIMESTONE SAND 2.68, LIMESTONE 2.65, SLAG 2.30, FLY ASH 2.65, GGBF SLAG 2.90, MICROSILICA SOLIDS 2.20, AND PORTLAND CEMENT 3.15. FOR AGGREGATES OF SPECIFIC GRAVITIES DIFFERING MORE THAN PLUS OR MINUS 0.02 FROM THESE, THE WEIGHTS IN THE TABLE WILL BE CORRECTED

BASIS OF PAYMENT. PAYMENT FOR THE ABOVE COMPLETED QUANTITIES WILL BE MADE AT THE CONTRACT BID PRICE FOR:

ITEM	UNITS	DESCRIPTION
511	CUBIC YARDS	CLASS HP CONCRETE, FOR BRIDGE DECK WITH, AS PER PLAN
511	CUBIC YARDS	CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

CONCRETE PARAPETS

AS SOON AS THE CONCRETE SAW CAN BE OPERATED WITHOUT DAMAGING THE FRESHLY PLACED CONCRETE, SAW CUT 1/4" DEEP CONTROL JOINTS INTO THE PERIMETER OF THE CONCRETE PARAPET STARTING AND ENDING AT THE ELEVATION OF THE CONCRETE DECK. PLACE THE SAWCUTS AT THE MINIMUM OF 6 FEET AND A MAXIMUM OF 10 FEET CENTERS. USE A EDGE GUIDE, FENCE, OR JIG TO ENSURE THAT THE CUT JOINT IS STRAIGHT, TRUE, AND ALIGNED ON ALL FACES OF THE PARAPET. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE. A NOMINAL WIDTH OF 1/4 INCH. SEAL THE PERIMETER OF THE DEFLECTION CONTROL JOINT TO A MINIMUM DEPTH OF 1 INCH. WITH A POLYURRTHANE OR POLYMERIC MATERIAL CONFORMING TO ASTM C920, TYPE S. LEAVE THE BOTTOM 1/2 INCH OF THE INSIDE AND OUTSIDE FACE UNSEALED TO ALLOW WATER TO ESCAPE.

ABBREVIATIONS:

APPR. - APPROACH	NF - NEAR FACE
APPROX. - APPROXIMATE	NO. - NUMBER
BM - BENCHMARK	NPCPP - NON-PERFORATED CORRUGATED PLASTIC PIPE
BOT - BOTTOM	O/O - OUT TO OUT
BRG. - BEARINGS	PCPP - PERFORATED CORRUGATED PLASTIC PIPE
BTA - BRIDGE TERMINAL ASSEMBLY	PEJF - PREFORMED EXPANSION JOINT FILLER
C/C - CENTER TO CENTER	PG - PROFILE GRADE
CFS - CUBIC FEET PER SECOND	SEC - SECOND
CL - CENTERLINE	SER - SERIES
CJ - CONSTRUCTION JOINT	SHT. - SHEET
CMP - CORRUGATED METAL PIPE	SPA. - SPACING
CONC. - CONCRETE	S.R. - STATE ROUTE
CONST. - CONSTRUCTION	STA - STATION
CVN - CHARPY V-NOTCH	TBR - TO BE REMOVED
DIA. - DIAMETER	TH. - THICKNESS
EB - EASTBOUND	T/CURB - TOP OF CURB
EL - ELEVATION	T/S - TOP OF SLOPE
E/P - EDGE OF PAVEMENT	T/T - TOE TO TOE
E/S - EDGE OF SHOULDER	TYP. - TYPICAL
EX. - EXISTING	VERT. - VERTICAL
EXP - EXPANSION	P - PLATE
FA - FORWARD ABUTMENT	PROP. - PROPOSED
FF - FAR FACE	PVMT. - PAVEMENT
FT - FEET	RA - REAR ABUTMENT
FTG. - FOOTING	RCP - ROCK CHANNEL PROTECTION
F/F - FACE TO FACE	REIN. - REINFORCED
G/R - GUARDRAIL	RT. - RIGHT
HW - HIGH WATER	R/W - RIGHT OF WAY
INV. - INVERT	WB - WESTBOUND
JT. - JOINT	
LT. - LEFT	
MH - MANHOLE	
MIN. - MINIMUM	

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614) 714-0270 FAX (614) 714-0322

DATE: 12/2005
 STRUCTURE FILE NUMBER: 1603369.RT.

REVIEWED: JEP
 DRAWN: SRR
 DESIGNED: SRR
 CHECKED: KCS

GENERAL NOTES
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R. J. CORMAN RAILROAD

STA-30-(6.70) (11.57)
 PID 23754

2/22
 82
 127

GENERAL NOTES (CON'T)

COMPUTED BY : SRR DATE : 12/2005
CHECKED BY : JEP DATE : 12/2005

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	LEFT BRIDGE	RIGHT BRIDGE	UNIT	DESCRIPTION	LEFT BRIDGE				RIGHT BRIDGE				AS PER PLAN SHEET NO.
						ABUTS.	PIER	SUPER	GEN	ABUTS.	PIER	SUPER	GEN	
202	11203	LUMP	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP				LUMP	[2/22]
202	22900	134	134	SQ YD	APPROACH SLAB REMOVED				134				134	
503	11100	LUMP	LUMP		COFFERDAMS, CRIBS AND SHEETING				LUMP				LUMP	
503	21100	576	576	CU YD	UNCLASSIFIED EXCAVATION	576				576				
509	10000	260,060	260,060	POUND	EPOXY COATED REINFORCING STEEL	7,981	49,751	202,328		7,981	49,751	202,328		
510	10000	152	152	EACH	DOWEL HOLES WITH NONSHRINK NONMETALLIC GROUT	152				152				
511	42500	213	213	CU YD	CLASS C CONCRETE, PIER CAP		213				213			
511	46200	49	49	CU YD	CLASS C CONCRETE	49				49				
511	50001	639	639	CU YD	CLASS HP CONCRETE, BRIDGE DECK, AS PER PLAN			639			639			[2/22]
511	50101	138	138	CU YD	CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN			130	8		130	8		[2/22]
511	52000	LUMP	LUMP		CLASS HP CONCRETE, TEST SLAB			LUMP			LUMP			
512	10100	2942	2942	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	142	987	1813		142	987	1813		
515	15030	25	25	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE 4 MOD. (60")			25			25			
515	20000	28	28	EACH	INTERMEDIATE DIAPHRAGMS			28			28			
516	13900	196	196	SQ FT	2" PREFORMED EXPANSION JOINT FILLER			196			196			
516	14021	90	90	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN			90			90			[2/22]
516	44100	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-1 1/2" X 1'-1 1/2" X 2 3/4") (NEOPRENE) AND LOAD PLATE (1'-2 1/2" X 1'-2 1/2" X 1 1/2")	5				5				
516	44100	5	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-2" X 1'-1" X 2 1/16") (NEOPRENE) AND LOAD PLATE (1'-3" X 1'-2" X 1 1/2")	5				5				
516	44200	10	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-4" X 1'-4 1/2" X 3 1/4") (NEOPRENE) AND LOAD PLATE (1'-5" X 1'-5 1/2" X 1 1/2")		10			10				
516	44300	10	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-3" X 1'-2 1/2" X 4 1/4") (NEOPRENE) AND LOAD PLATE (1'-4" X 1'-3 1/2" X 1 1/2")		10			10				
516	44300	20	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-4 1/2" X 1'-4 1/2" X 4 1/4") (NEOPRENE) AND LOAD PLATE (1'-5 1/2" X 1'-5 1/2" X 1 1/2")		20			20				
518	12301	6	6	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN			6			6			[3/22]
518	21200	78	78	CU YD	POROUS BACKFILL WITH FILTER FABRIC			78			78			
518	40000	96	96	FT	6" PERFORATED CORRUGATED PLASTIC PIPE			96			96			
518	40010	68	68	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS			68			68			
526	25001	231	231	SQ YD	REINFORCED CONCRETE APPROACH SLAB (T-15"), AS PER PLAN					231			231	[9/22]
843	50001	10	10	SQ FT	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN		1				1			[3/22]

ITEM 526-REINFORCED CONCRETE APPROACH SLAB (T-15"), AS PER PLAN:
THE CONCRETE FOR THE APPROACH SLAB SHALL BE CLASS HP CONCRETE, MIX 4. THE PROPORTIONS FOR THE STARTING MIX DESIGN ARE DESCRIBED IN THE "ITEM 511-CLASS HP CONCRETE, BRIDGE DECK, AS PER PLAN" NOTE. QUANTITIES OF THE CONCRETE AND REINFORCING FOR THE PARAPET TRANSITIONS ON THE APPROACH SLABS ARE INCLUDED IN ITEM 511 AND ITEM 509 RESPECTIVELY. THE REINFORCING QUANTITY FOR THE PARAPET TRANSITIONS IS INCLUDED IN THE SUPERSTRUCTURE COLUMN FOR EACH BRIDGE.

ITEM 843-PATCHING CONCRETE SURFACES WITH TROWELABLE MORTAR, AS PER PLAN:
AN ADDITIONAL QUANTITY OF 18 SF HAS BEEN CARRIED TO THE ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER.

RAILROAD NOTES:
THE CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL REQUIRED INSURANCE HAS BEEN PROVIDED TO:

DEBBIE HAWLEY
CONTRACTS ASSISTANT
R.J. CORMAN RAILROAD GROUP
PO BOX 788
NICHOLASVILLE, KY 40340
PHONE: 859-881-2499

THE CONTRACTOR SHALL NOT COMMENCE ANY WORK ON RAILROAD CORRIDORS UNTIL IT HAS GIVEN THE RAILROAD WRITTEN NOTICE AND NOTIFIED RAILROAD SUPERINTENDENT OF ANTICIPATED START DATE AT LEAST 10 DAYS IN ADVANCE.

DARRELL PRIDY
RAILROAD SUPERINTENDENT
PHONE: 330-364-4567

PLANS SHOULD BE SUBMITTED TO THE RAILROAD FOR ANY TEMPORARY VERTICAL OR HORIZONTAL CLEARANCE VIOLATIONS RESULTING FROM SCAFFOLDING, FORMS, BRACING OR OTHER ITEMS TO BE PLACED WITHIN THE RAILROAD CLEARANCE (15' HORIZONTAL AND 21' VERTICAL)

THE CONTRACTOR SHOULD NOT CROSS THE RAILROAD TRACKS WITH WORKERS OR EQUIPMENT EXCEPT AT EXISTING PUBLIC GRADE CROSSINGS OR AT A TEMPORARY CROSSING INSTALLED BY AGREEMENT WITH R.J. CORMAN RAILROAD GROUP (RJC).

TRACKED EQUIPMENT SHOULD NOT CROSS EXCEPT AT TEMPORARY CROSSINGS, WHICH HAVE BEEN PRE-APPROVED FOR SUCH USE BY THE RAILROAD.

THE CONTRACTOR IS REQUIRED TO PROTECT THE TRACK AND ROADBED DURING LIFTING OPERATIONS OVER THE TRACK. TO PROTECT AGAINST DAMAGE TO THE RAILS IN THE EVENT OF A DROP, TEMPORARY PLACEMENT OF TIMBER MATTING WITHIN THE TRACK DURING REMOVAL AND INSTALLATION OF BEAMS OR OTHER LARGE ITEMS THAT ARE DIRECTLY OVER THE RAILS. THE MATTING CAN ONLY BE PLACED ON THE TRACK IN THE PRESENCE OF A RJC FLAGMAN OR OTHER QUALIFIED EMPLOYEE AND MUST BE REMOVED UPON HIS ORDER.

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN RAILROAD DRAINAGE DITCHES AT ALL TIMES.

THE CONTRACTOR SHALL KEEP THE IMMEDIATE RAILROAD TRACK AREA CLEAN AT ALL TIMES.

NO DIRT, DEBRIS OR OTHER FOREIGN MATERIALS CAN BE PLACED ON OR WITHIN THE TRACK AREA.

FLAGGING REQUIREMENTS:
THE CONTRACTOR SHALL NOT BE WITHIN 15' OF THE RAILROAD TRACKS WITH PERSONNEL, EQUIPMENT OR MATERIAL. THE CONTRACTOR SHALL NOT WORK DIRECTLY OVER THE TRACK, EXCEPT IN THE PRESENCE AND WITH THE APPROVAL OF A RAILROAD FLAGMAN.

THE CONTRACTOR MUST FOLLOW ALL FRA REGULATIONS AND RAILROAD SAFETY REQUIREMENTS WHILE WORKING ON RAILROAD PROPERTY.

DEMOLITION DEBRIS:
THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAMS OR WETLANDS. ANY MATERIAL THAT DOES FALL INTO THE STREAM OR WETLANDS SHALL BE REMOVED AS SOON AS POSSIBLE.

IN STREAM WORK:
NO WORK SHALL OCCUR BELOW THE ORDINARY HIGH WATER MARK IN THE TUSCARAWAS RIVER BETWEEN APRIL 15 AND JUNE 30.

STREAM CHANNEL EXCAVATION:
THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS FOUNDATION, PIER OR ABUTMENT EXCAVATION, CHANNEL CLEAN OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

PAINTING AND SEALING OPERATIONS:
THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT, OR OTHER MATERIALS USED TO REPAIR, CLEAN, SEAL, OR TREAT ANY BRIDGE STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF OPEN PAINT/SEALER MATERIAL TO THE EXTENT PRACTICABLE TO PERFORM THE REQUIRED WORK. DISCARDED CONTAINERS SHALL BE REMOVED FROM THE VICINITY OF THE STREAM, AND UNDER NO CIRCUMSTANCES SHALL ANY PAINT/SEALER MATERIAL BE STORED WITHIN THE 100 YEAR FLOODPLAIN. IN EACH CASE WHERE THERE IS AN INCIDENT OF DEBRIS AND/OR MATERIALS THAT FALL OR MIGRATE INTO THE RIVER, THE CONTRACTOR SHALL, AS SOON AS POSSIBLE, NOTIFY THE ENGINEER/SUPERVISOR, AND THE FOLLOWING AGENCIES:

A. OHIO EPA SPILL REPORTING
24 HOUR EMERGENCY SERVICE: CALL 1-800-282-9378

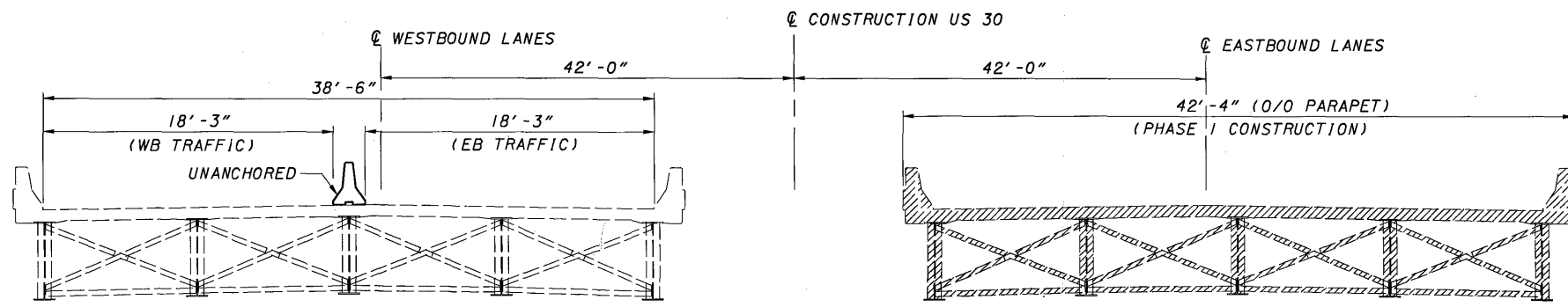
PROVIDE AS MUCH OF THE FOLLOWING INFORMATION AS POSSIBLE:

1. TIME OBSERVED
2. LOCATION
3. MATERIAL RELEASED
4. PROBABLE SOURCE
5. VOLUME AND DURATION
6. PRESENT & ANTICIPATED MOVEMENT OF CONTAMINANT
7. PERSONNEL ON SCENE
8. ACTIONS ALREADY INITIATED
9. PERSON(S) ON THE SCENE TO CONTACT

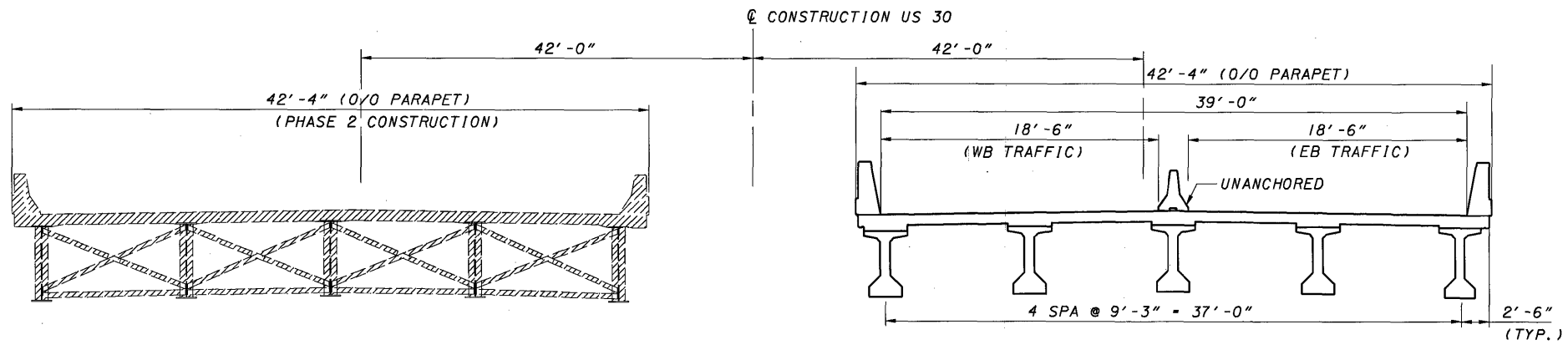
B. STARK COUNTY SANITARY ENGINEER:
MICHAEL ARMOGIDA, P.E.
1701 MAHONING ROAD, NE, CANTON, OHIO 44705
(330) 451-2303
OR (330) 451-2320 (24 HOUR EMERGENCY)

C. STARK SOIL AND WATER CONSERVATION DISTRICT
2350 RICHVILLE DRIVE, MASSILLON, OHIO 44646
(330) 830-7700 EXTENSION 103

DESIGN AGENCY: BARR & PREYOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614) 714-0270 FAX (614) 714-0322
 DATE: 12/2005
 REVIEWED: JEP
 DRAWN: SRR
 DESIGNED: SRR
 CHECKED: KCS
 ESTIMATED QUANTITIES & GENERAL NOTES
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD
 STA-30-(6.70)/(11.57)
 PID 23754
 3/22
 83
 127



PHASE 1 TRAFFIC & PHASE 1 CONSTRUCTION



PHASE 2 TRAFFIC & PHASE 2 CONSTRUCTION

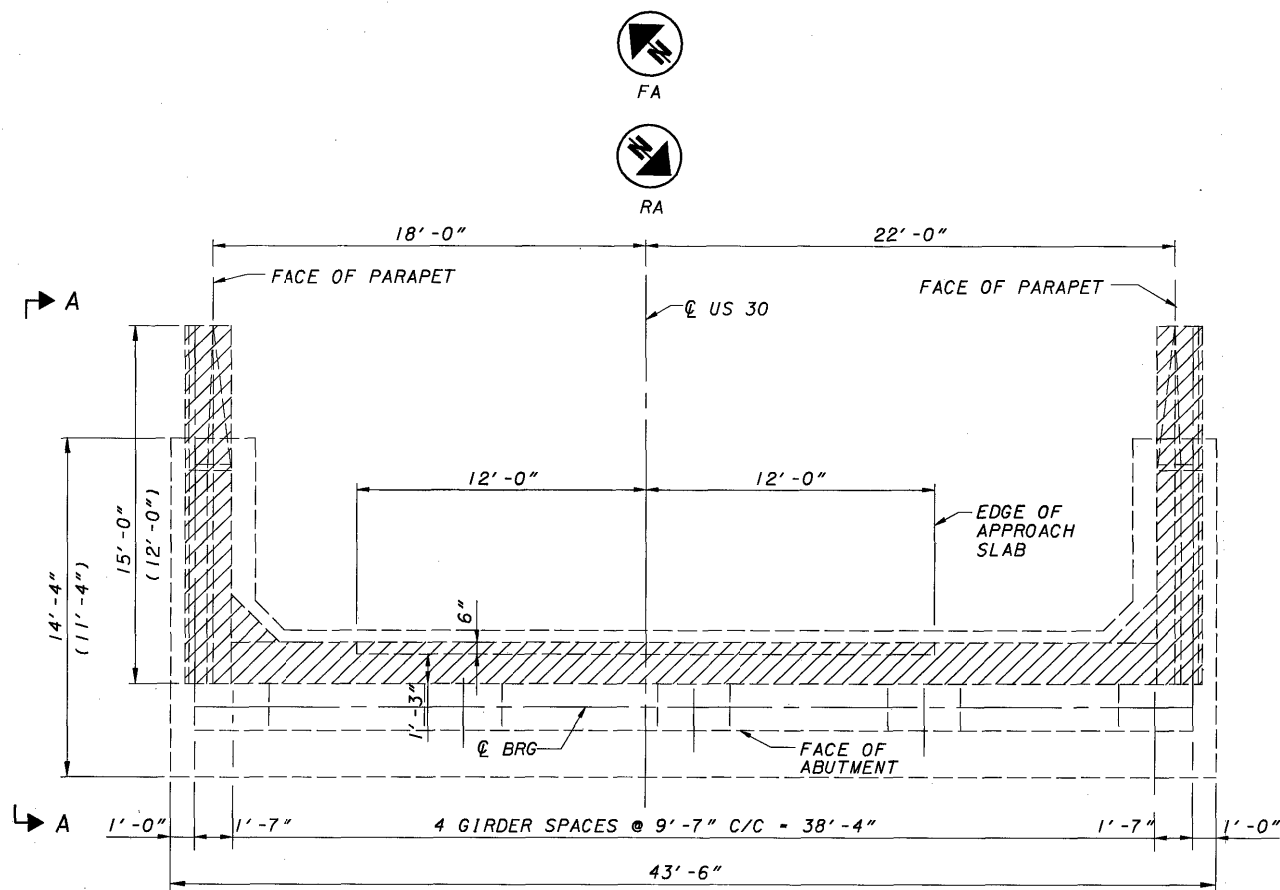
SEQUENCE OF CONSTRUCTION

1. INSTALL PORTABLE CONCRETE BARRIER ON LT. BRIDGE AS SHOWN IN PHASE 1 CONSTRUCTION DIAGRAM, TO MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.
2. CLOSE RT. BRIDGE AND REMOVE RAILING, DECK, BEAMS AND PIER CAPS.
3. CONSTRUCT PIER CAPS, ERECT BEAMS, CONSTRUCT NEW SLAB, PARAPETS AND APPROACH SLABS FOR RT. BRIDGE.
4. COMPLETE REMAINING ROADWAY ITEMS FOR RT. BRIDGE AND INSTALL PORTABLE CONCRETE BARRIER AS SHOWN IN PHASE 2 CONSTRUCTION DIAGRAM.
5. SWITCH TRAFFIC TO RT. BRIDGE TO MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION.
6. CLOSE LT. BRIDGE AND REMOVE RAILING, DECK, BEAMS AND PIER CAPS.
7. CONSTRUCT PIER CAPS, ERECT BEAMS, CONSTRUCT NEW SLAB, PARAPETS AND APPROACH SLABS FOR LT. BRIDGE.
8. COMPLETE REMAINING ROADWAY ITEMS FOR LT. BRIDGE AND OPEN TWO LANE TRAFFIC FOR RT. AND LT. BRIDGE.

NOTES

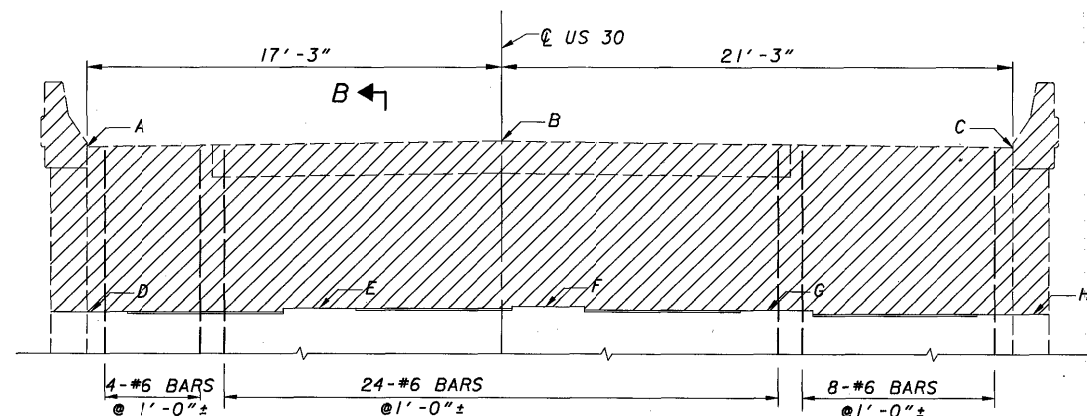
1. FOR ADDITIONAL MAINTENANCE OF TRAFFIC DETAILS, SEE ROADWAY PLANS.
2. FOR SUBSTRUCTURE REMOVAL DETAILS, SEE SHEET 5722.
3. FOR LIST OF ABBREVIATIONS, SEE SHT. 2722.

DESIGN AGENCY BARR & PREVOST 2800 CORPORATE EXCHANGE DR. STE. 240 COLUMBUS, OH 43231 (614)-714-0270 FAX (614)-714-0322	DATE 12/2005	REVIEWED MLM STRUCTURE FILE NUMBER 7607385 LT. 7607369 RT.	DRAWN SRR REVISED	DESIGNED JEP CHECKED KCS	PHASE CONSTRUCTION DETAILS BRIDGE NO. STA-30-0670 L&R US 30 OVER TUSCAWARAS RIVER & R. J. CORMAN RAILROAD	STA-30-(6.70) (11.57) PID 23754	4 / 22 84 127
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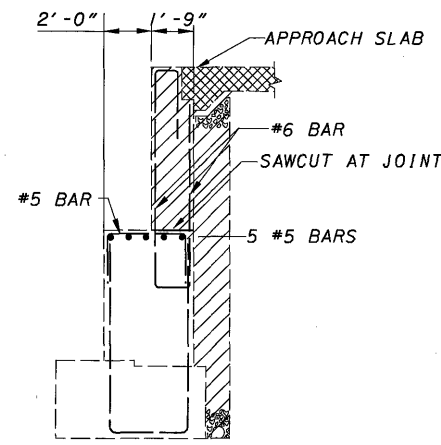
ABUTMENT PLAN

(WESTBOUND SHOWN, EASTBOUND OPPOSITE HAND)



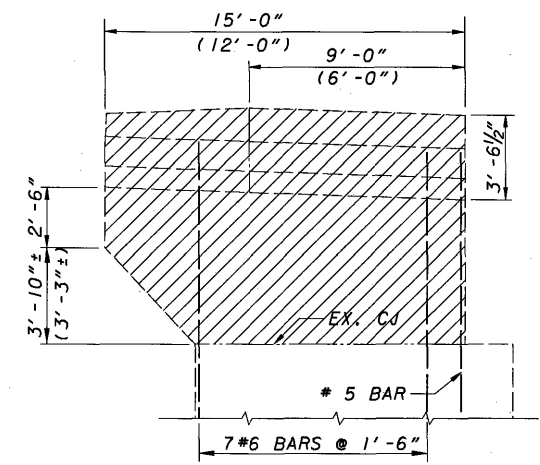
ABUTMENT ELEVATION

ABUTMENT ELEVATIONS								
ABUTMENT	A	B	C	D	E	F	G	H
RA-EB	970.61	970.96	970.63	963.72	963.88	964.03	963.94	963.82
RA-WB	970.81	971.03	970.65	963.84	963.98	964.07	963.94	963.77
FA-EB	960.98	960.79	960.46	953.96	953.89	953.77	953.60	953.50
FA-WB	961.30	961.06	960.77	954.38	954.24	954.15	954.00	953.84

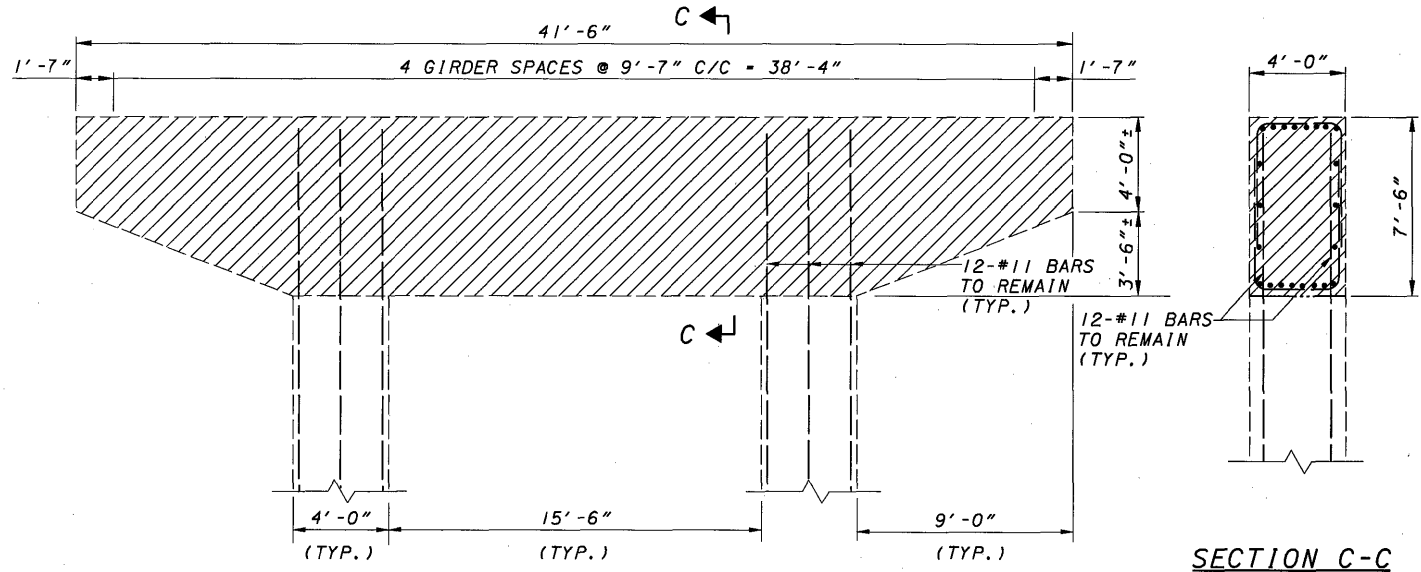


SECTION B-B

(FORWARD ABUTMENT SHOWN, REAR ABUTMENT SIMILAR)
(PILES NOT SHOWN)



VIEW A-A



PIER ELEVATION

(PIERS 1, 2, 3 & 4)

LEGEND:

- ITEM 202 - PORTIONS OF STRUCTURE TO BE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
- ITEM 202 - APPROACH SLAB TO BE REMOVED

NOTES:

1. ALL EX. DIMENSIONS ARE ±.
2. BEAM SEAT ELEVATIONS FROM FIELD SURVEY.
3. CONTRACTOR SHALL REMOVE CONCRETE TO ELEVATIONS INDICATED IN PLANS.
4. FOR LIST OF ABBREVIATIONS, SEE SHT. 2722.

DESIGN AGENCY: **BARR & PREVOST**
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

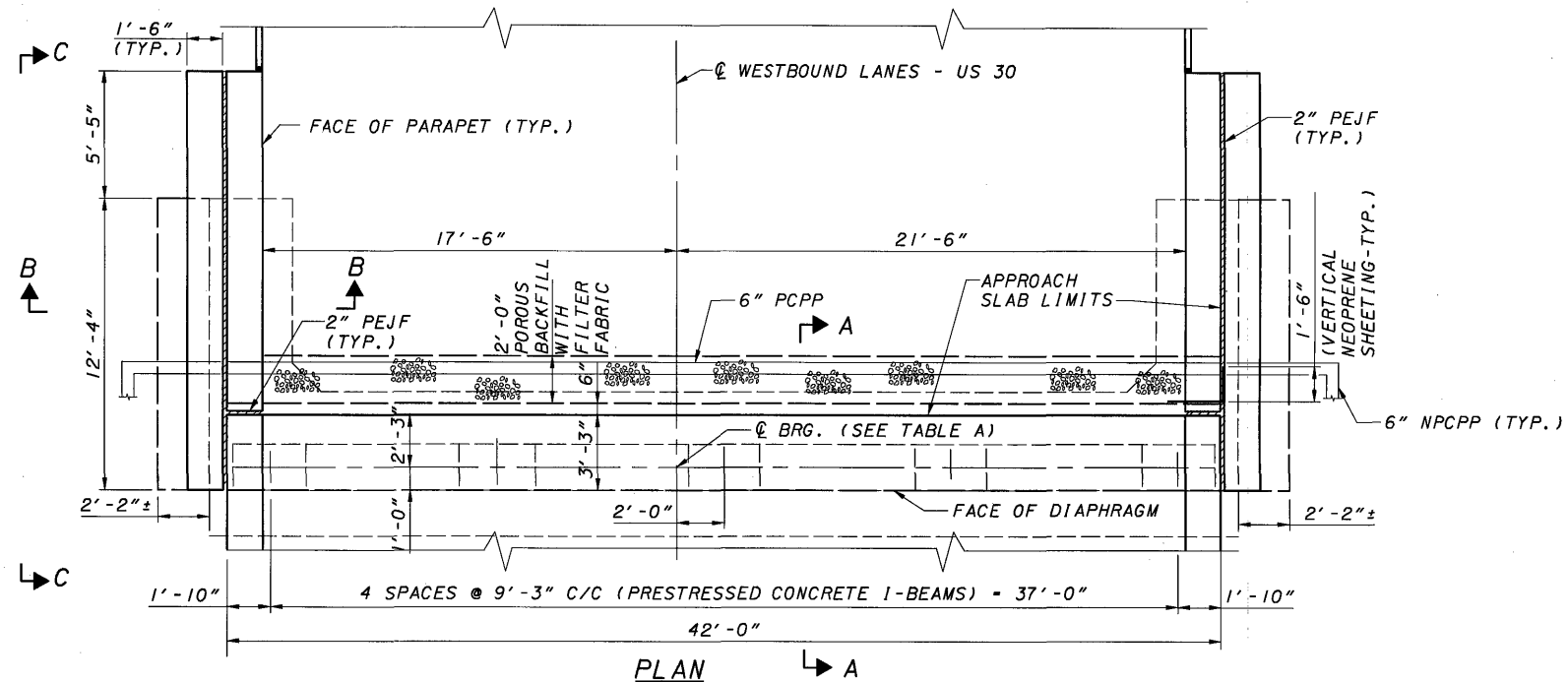
DESIGNED	JEP	CHECKED	ASB
DRAWN	RAS	REVISED	
REVIEWED	MLM	STRUCTURE FILE NUMBER	7607385 LT. 7607369 RT.
DATE	12/2005		

REMOVAL DETAILS
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD

STA-30-(6.70) (11.57)
PID 23754

5/22
 85
 127

(FA-EB) (RA-WB)

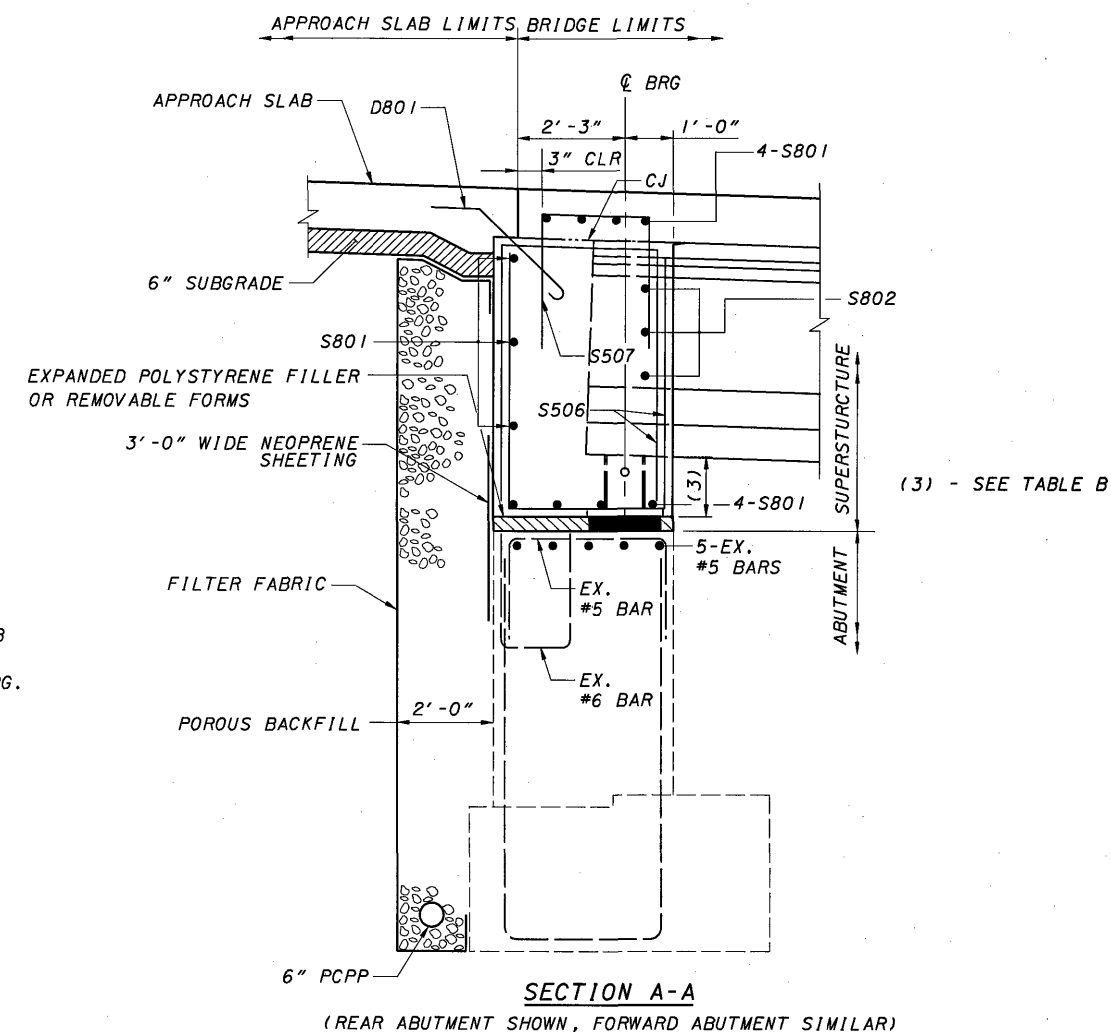


(WESTBOUND RA SHOWN, EASTBOUND RA OPPOSITE HAND)
(EASTBOUND FA SHOWN, WESTBOUND FA OPPOSITE HAND)

PLAN

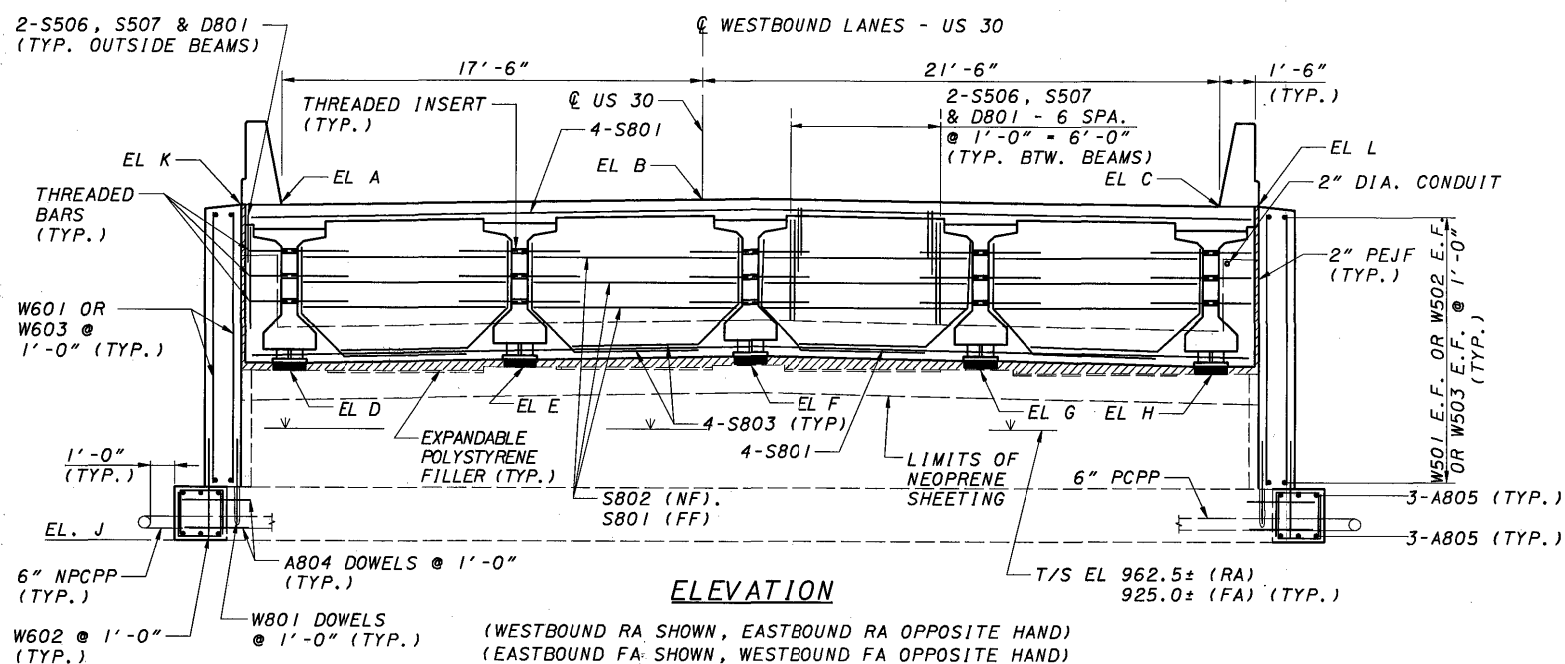
TABLE A ABUTMENT ELEVATIONS												
ABUTMENT	STA.	A(1)	B(1)	C(1)	D(2)	E(2)	F(2)	G(2)	H(2)	J	K	L
RA-EB	527+49.13	970.83	971.24	970.67	963.82	963.94	964.03	963.88	963.72	956.65±	970.73	970.57
FA-EB	531+58.13	960.65	960.74	960.18	953.96	953.89	953.77	953.60	953.50	945.84±	960.55	960.08
RA-WB	527+47.13	970.88	971.29	970.72	963.84	963.98	964.07	963.94	963.77	956.70±	970.78	970.62
FA-WB	531+56.13	960.70	961.11	960.85	953.38	954.00	954.15	954.24	954.84	946.25±	960.60	960.75

(1) ELEVATION AT APPROACH SLAB & BRIDGE LIMIT INTERFACE
(2) ELEVATION AT ϕ ABUTMENT BRG.



SECTION A-A

(REAR ABUTMENT SHOWN, FORWARD ABUTMENT SIMILAR)



ELEVATION

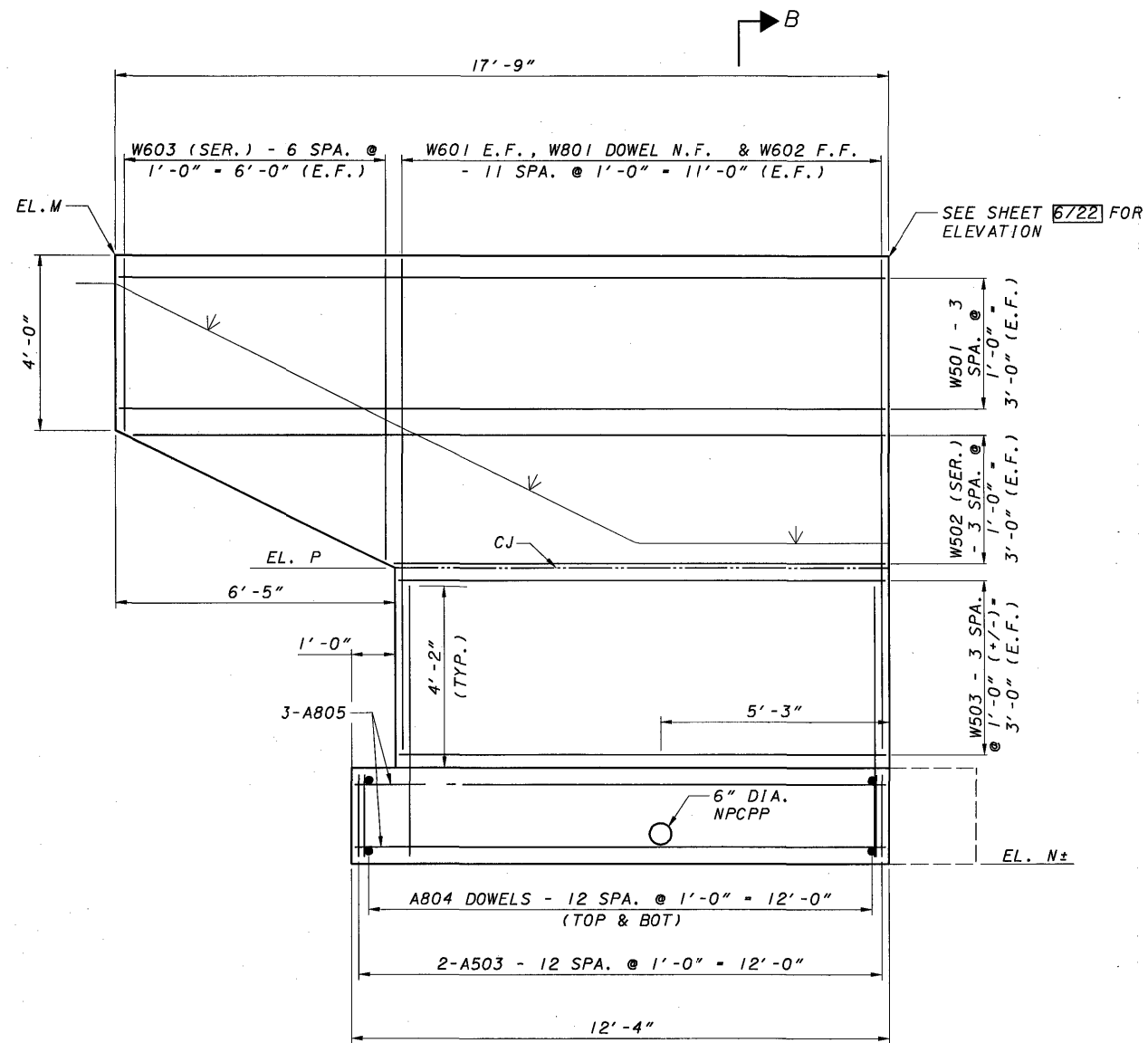
(WESTBOUND RA SHOWN, EASTBOUND RA OPPOSITE HAND)
(EASTBOUND FA SHOWN, WESTBOUND FA OPPOSITE HAND)

ABUTMENT LOCATION	TABLE B REAR		FORWARD	
	EB	WB	EB	WB
B1	9 1/8"	9 1/8"	7 5/8"	4 1/4"
B2	11 1/2"	11 1/2"	10 3/8"	9 1/8"
B3	11 1/2"	11 1/2"	11"	10 1/2"
B4	11 1/2"	11 1/2"	11 1/4"	10 1/2"
B5	9 1/4"	10 1/4"	8 1/4"	9 3/8"

NOTES:

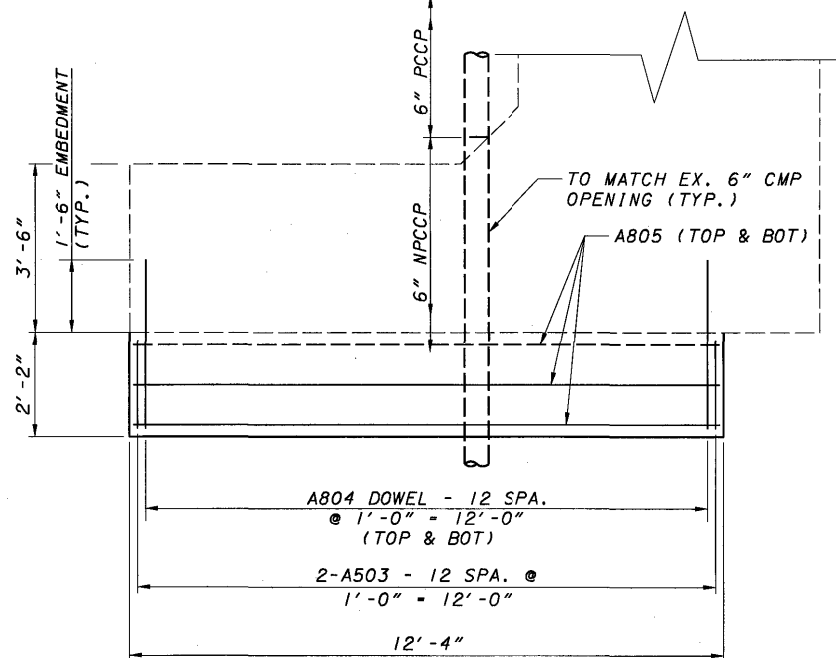
- FOR A LIST OF ABBREVIATIONS, SEE SHEET 2722.
- ALL EX. DIMENSIONS ARE ±.
- FOR SECTION B-B & VIEW C-C, SEE SHT. 2722.
- FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2722.
- ABUTMENT DIAPHRAGM CONCRETE SHALL BE PAID WITH ITEM 511-CLASS HP CONCRETE, BRIDGE DECK, AS PER PLAN.
- FOR BEAM LAYOUT DESIGNATION, SEE SHEET. 2722.

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 STRUCTURE FILE NUMBER: 7607385 LT.
 7607369 RT.
 REVIEWED: MLM
 DRAWN: SRR
 DESIGNED: JEP
 CHECKED: KCS
 STA-30-(6.70) (11.57)
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD
 PID 23754
 6/22
 86
 127



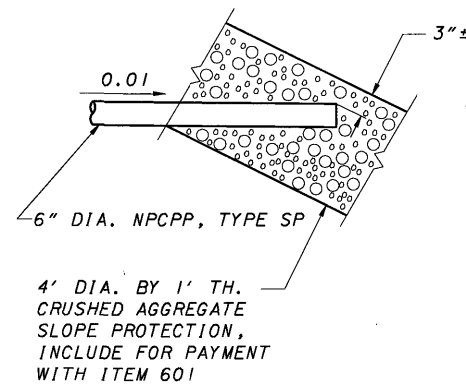
SEE SHEET 2722 FOR ELEVATION

VIEW C-C
(ALL WINGWALLS SIMILAR)



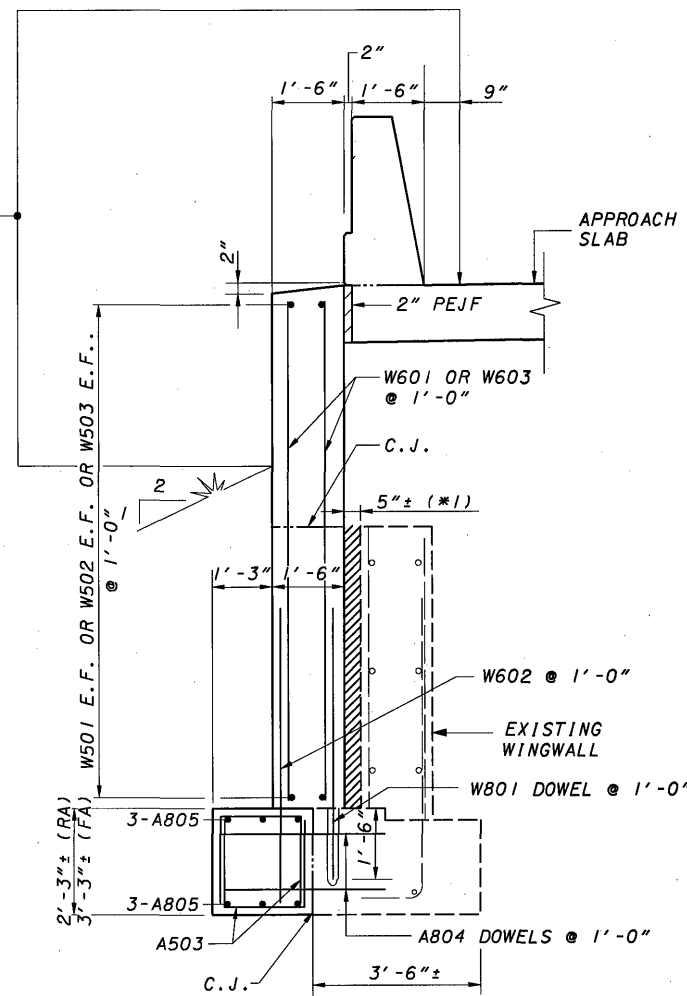
FOOTING PARTIAL PLAN

ABUTMENT	SIDE	M	N	P
RA-EB	LT	971.17	956.65	963.96
RA-EB	RT	971.01	956.65	963.86
FA-EB	LT	960.11	946.84	953.60
FA-EB	RT	959.64	946.84	953.60
RA-WB	LT	971.06	956.70	963.85
RA-WB	RT	971.22	956.70	964.01
FA-WB	LT	960.31	946.25	954.00
FA-WB	RT	960.16	946.25	954.00



TERMINATION OF 6" NPCPP

LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)

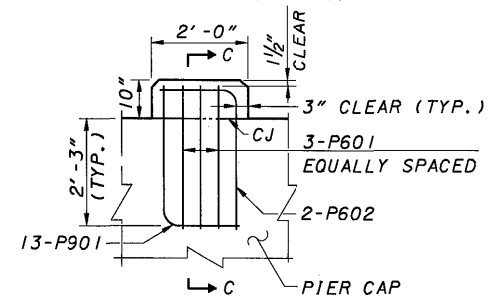


SECTION B-B

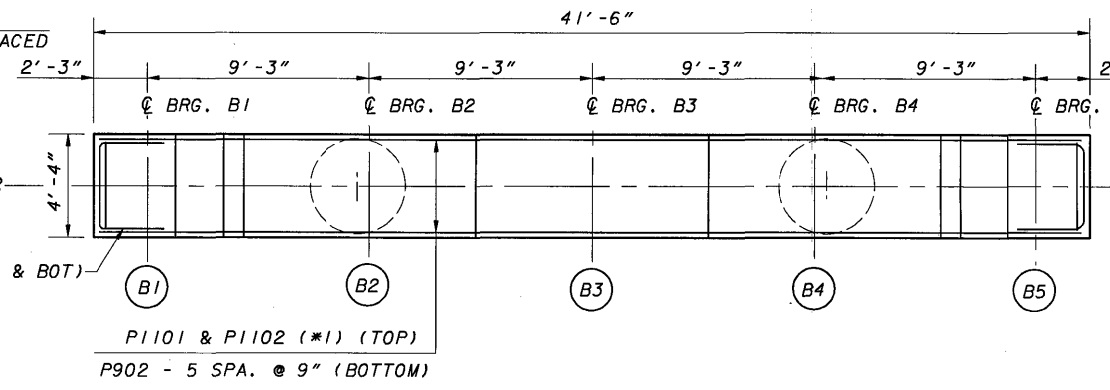
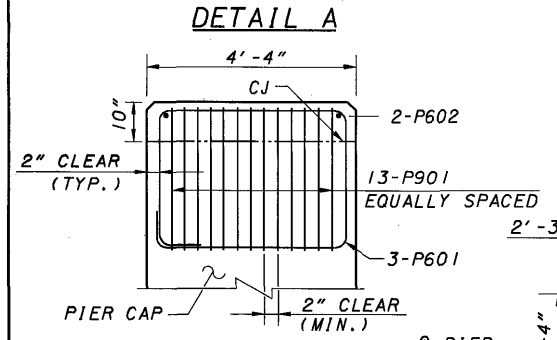
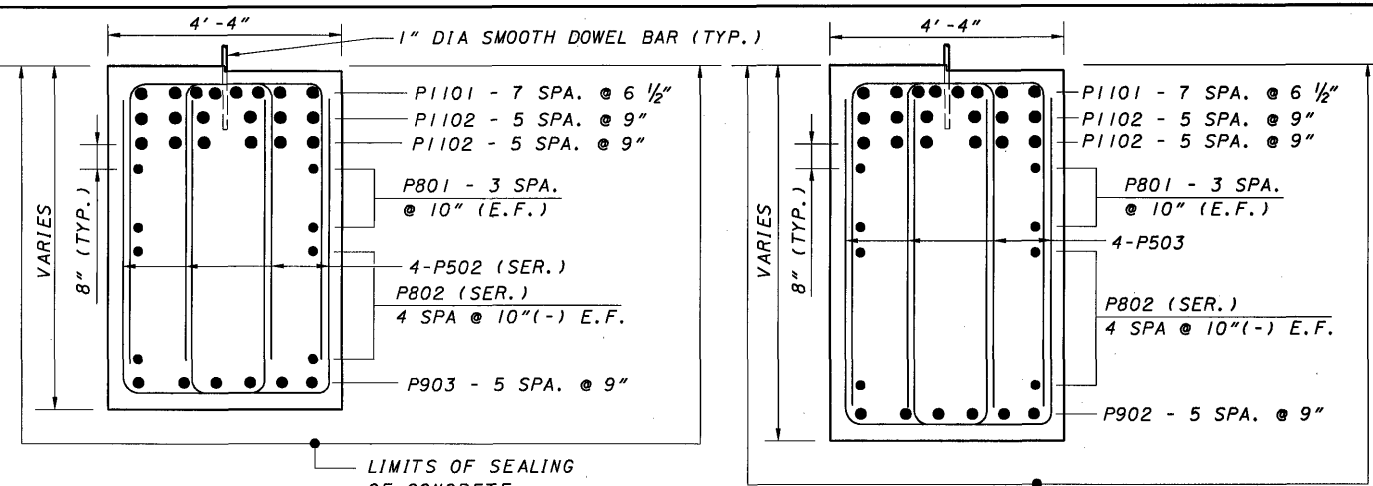
(*1) - CONTRACTOR SHALL FILL THIS GAP WITH CLASS C CONCRETE OR MORTAR, VOLUME OF MATERIAL WILL BE INCIDENTAL TO ITEM 511 CLASS C CONCRETE INCLUDING FOOTING

NOTES:

- FOR LIST OF ABBREVIATIONS, SEE SHEET 2722.
- ALL EX. DIMENSIONS ARE ±.
- FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2722.
- EMBEDMENT LENGTH FOR DOWELS SHALL BE 1'-0", UNLESS NOTED OTHERWISE.
- ALL EXPOSED SURFACES OF CONCRETE WINGWALLS SHALL BE SEALED WITH AN EPOXY-URETHANE SEALANT.
- ELEVATIONS IN PARENTHESIS ARE FOR LEFT SIDE.

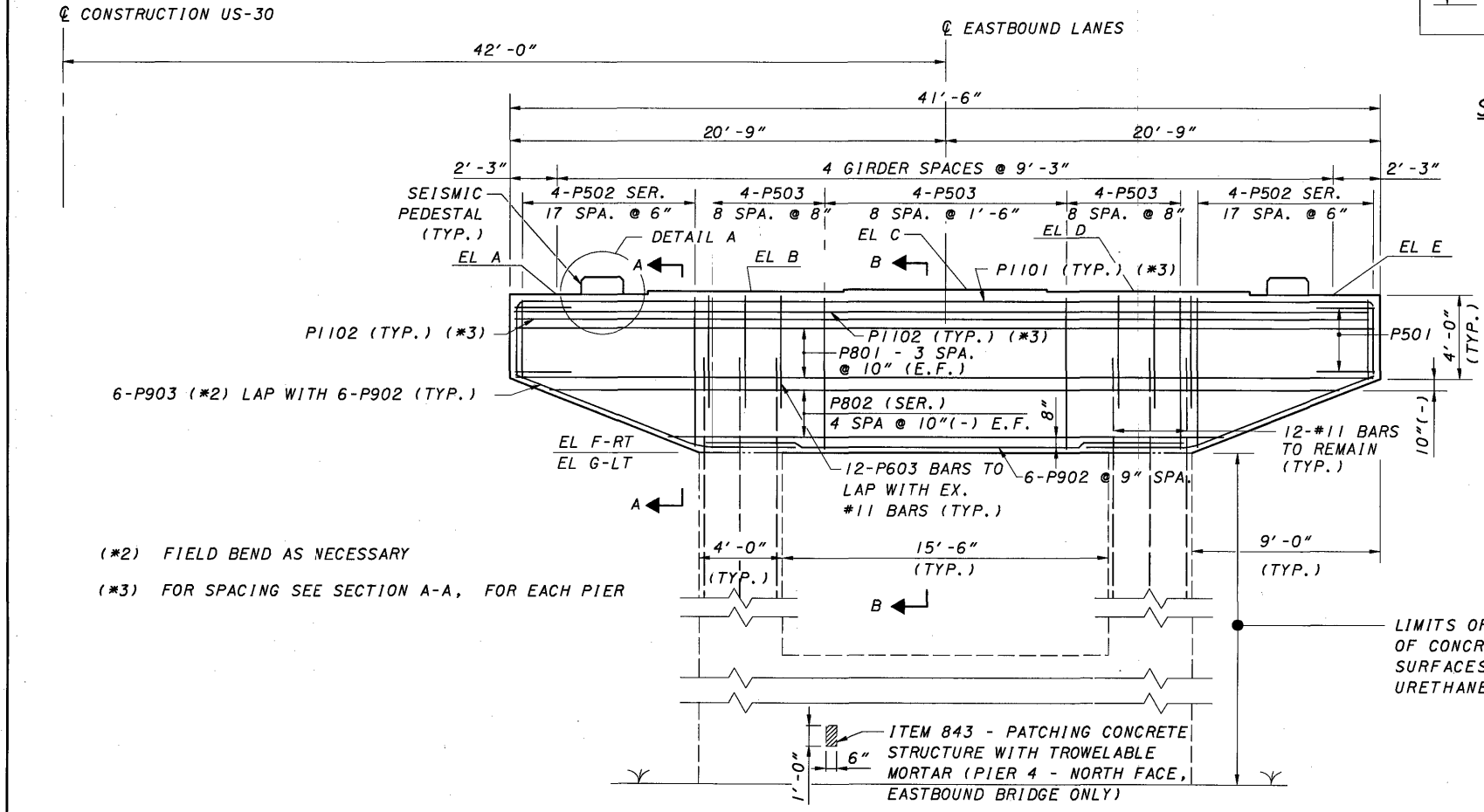


PIER ELEVATIONS							
LOCATION	A	B	C	D	E	F(±)	G(±)
PIER 1 - WB	963.02	963.27	963.35	963.21	962.86	954.14	954.25
PIER 2 - WB	960.31	960.56	960.64	960.50	960.15	951.52	951.63
PIER 3 - WB	957.80	958.05	958.13	957.99	957.64	949.22	949.34
PIER 4 - WB	955.93	956.19	956.27	956.12	955.77	947.27	947.52
PIER 1 - EB	962.97	963.22	963.30	963.16	962.81	954.14	954.25
PIER 2 - EB	960.26	960.51	960.59	960.45	960.10	951.52	951.63
PIER 3 - EB	957.75	958.00	958.08	957.94	957.59	949.22	949.34
PIER 4 - EB	955.88	956.14	956.22	956.07	955.72	947.27	947.52



(*1) FOR DETAIL SEE SECTIONS A-A AND B-B FOR EACH PIER

PLAN

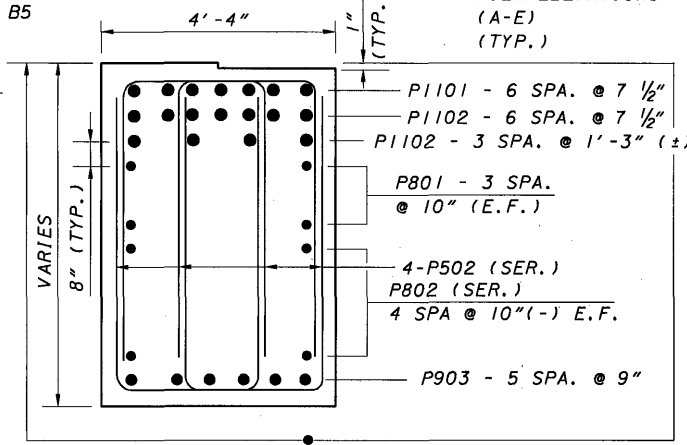


(*2) FIELD BEND AS NECESSARY
 (*3) FOR SPACING SEE SECTION A-A, FOR EACH PIER

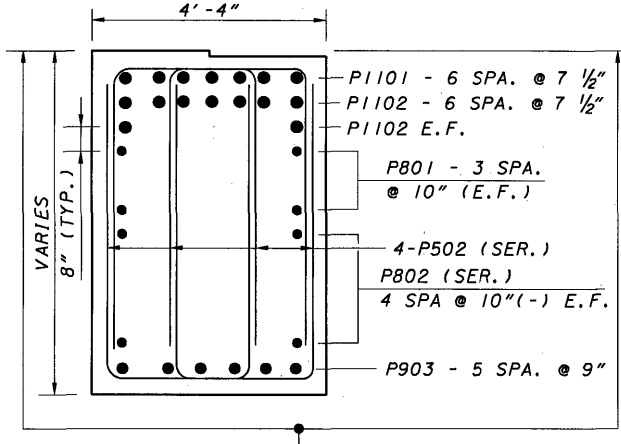
ELEVATION

(EB PIERS SHOWN, WB PIERS SYMMETRIC ABOUT & CONSTRUCTION US-30)

SECTION A-A
PIER 2



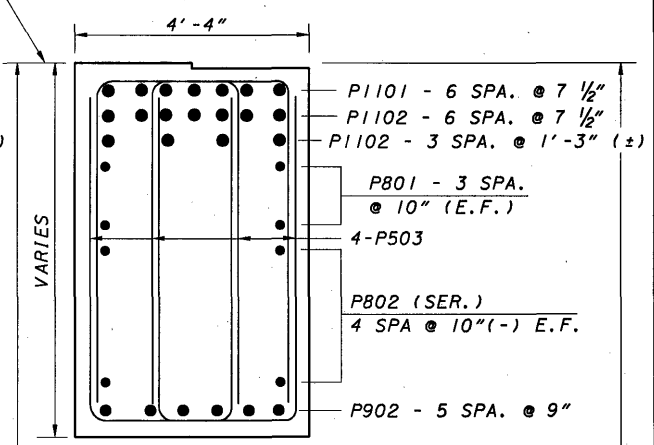
SECTION A-A
PIER 1 & 3



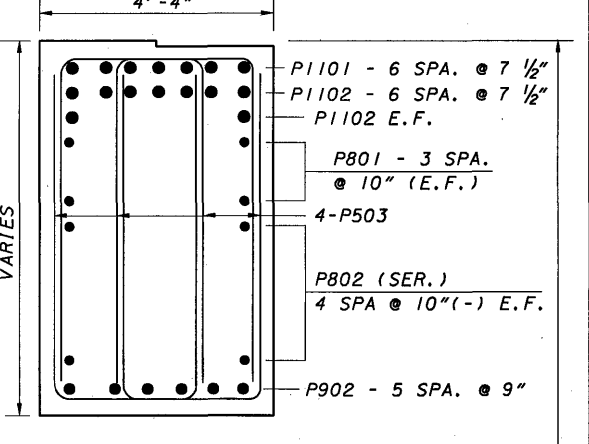
SECTION A-A
PIER 4

LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)

SECTION B-B
PIER 2



SECTION B-B
PIER 1 & 3



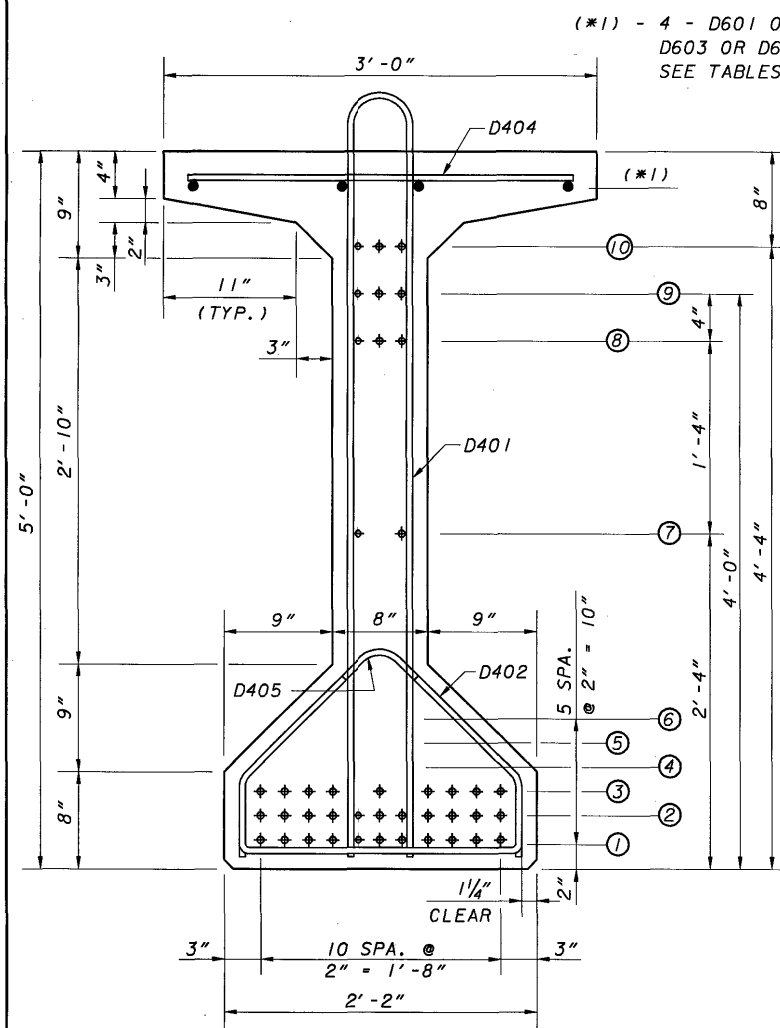
SECTION B-B
PIER 4

LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)

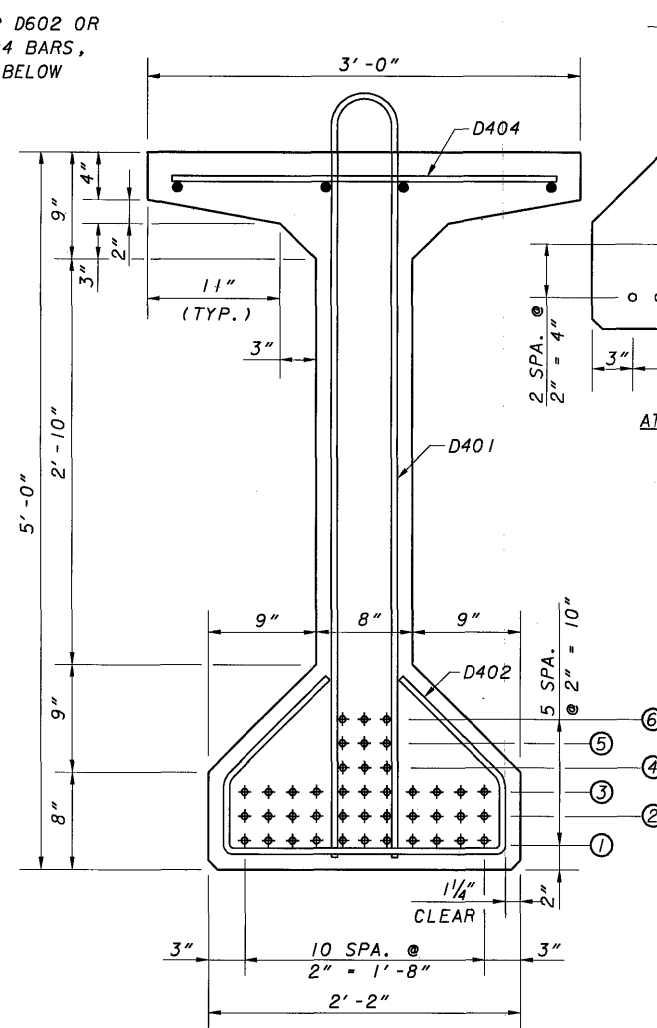
NOTE:

- FOR LIST OF ABBREVIATIONS SEE SHT. 2722.
- FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2722.
- FOR BEARING DETAILS SEE SHT. 19722.

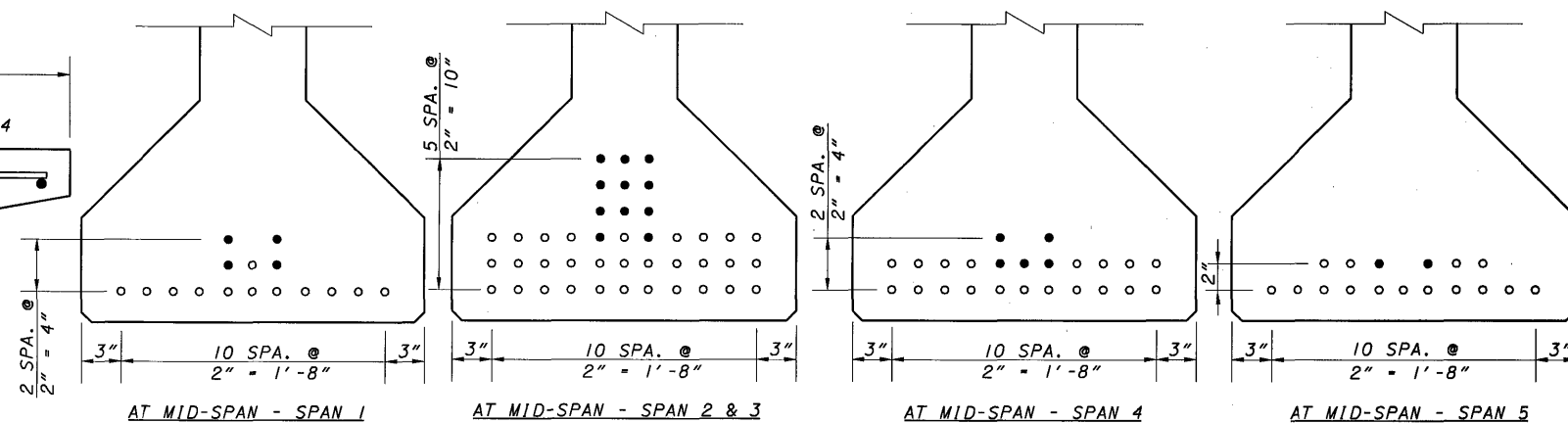
DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 REVISED: ML/M
 STRUCTURE FILE NUMBER: 7607385 LT., 7607369 RT.
 DRAWN: KCS
 CHECKED: JEP
 DESIGNED: KCS
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 BRIDGE NO. STA-30-0670 L&R
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 88
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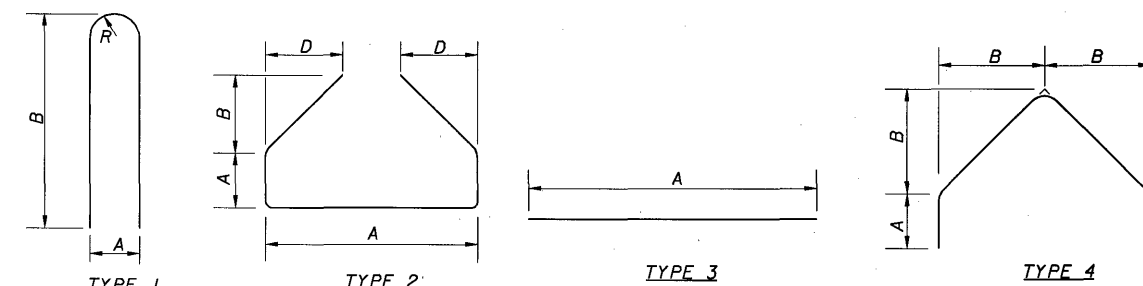
STRAND LOCATIONS IN A MODIFIED AASHTO TYPE 4 (60") I-BEAM (AT BEAM ENDS)



STRAND LOCATIONS IN A MODIFIED AASHTO TYPE 4 (60") I-BEAM (AT MIDSPAN)



LEGEND
● - DRAPED STRANDS
○ - STRAIGHT STRANDS
STRANDS DRAPE DETAIL



MARK	TYPE	A	B	C	D	R
D401	1	5 1/2"	5'-4"			2 1/2"
D402	2	1'-11 1/2"	6 1/4"	8 1/2"	8 1/2"	
D404	3	2'-8"				
D405	4	6 1/4"	11 3/4"			
D601	3	31'-7" (2-SETS)				
D602	3	35'-2" (3-SETS)				
D603	3	41'-1" (2-SETS)				
D604	3	33'-1" (2-SETS)				

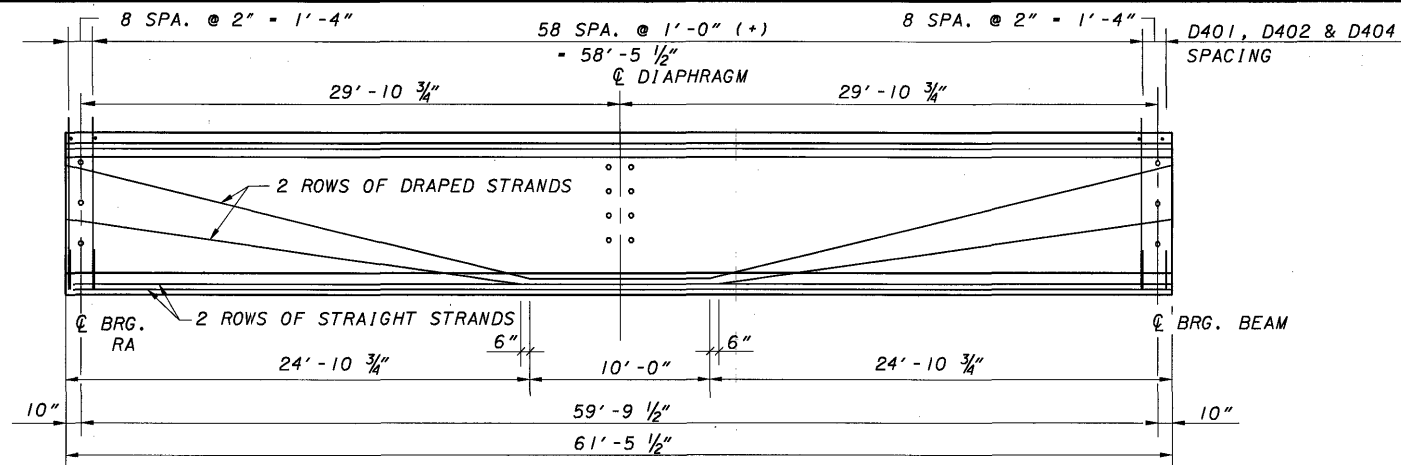
BENDING DIAGRAMS (ALL DIMENSIONS ARE OUT-TO-OUT)

SPAN NO.	NUMBER OF STRANDS PER ROW																				TOTAL STRANDS	CONCRETE STRENGTHS		D401 BARS REQ'D	D402 BARS REQ'D	D404 BARS REQ'D	D405 BARS REQ'D	D601 BARS REQ'D	D602 BARS REQ'D	D603 BARS REQ'D	D604 BARS REQ'D	BEAM LENGTH
	END SECTION										MID SECTION											f _{c1}	f _{c2}									
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10												
SPAN-1	11	1						2		2	11	3	2								16	5000	7000	63	75	63	18	8	61'-5 1/2"			
SPAN-2	11	11	9					2	3	3	11	11	11	3	3	3					42	5000	7000	103	115	103	18	12	101'-3"			
SPAN-3	11	11	9					2	3	3	11	11	11	3	3	3					42	5000	7000	103	115	103	18	12	101'-3"			
SPAN-4	11	8							3	2	11	11	2								24	5000	7000	81	93	81	18	8	79'-3"			
SPAN-5	11	4							2		11	6									17	5000	7000	66	78	66	18	8	64'-5 1/2"			

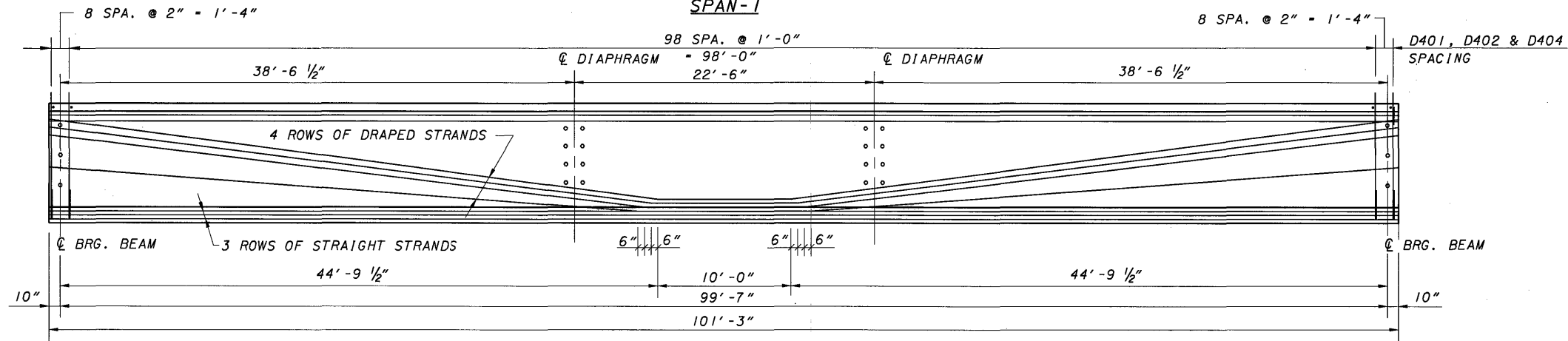
I-BEAM STRANDS

- NOTES:
- FOR ADDITIONAL AASHTO TYPE 4 (60") I-BEAM SEE STD. DWG. PSID-1-99.
 - THE PRESTRESSING STRANDS ARE LOW-RELAXATION 1/2 INCH DIAMETER (A = 0.167 IN) SEVEN WIRE UNCOATED STRANDS, ASTM A416, GRADE 270.
 - THE REINFORCING BARS SHALL BE EPOXY COATED.
 - FOR LIST OF ABBREVIATIONS, SEE SHEET 2/22.
 - FOR ADDITIONAL BEAM DETAILS, SEE SHEET 11/22.

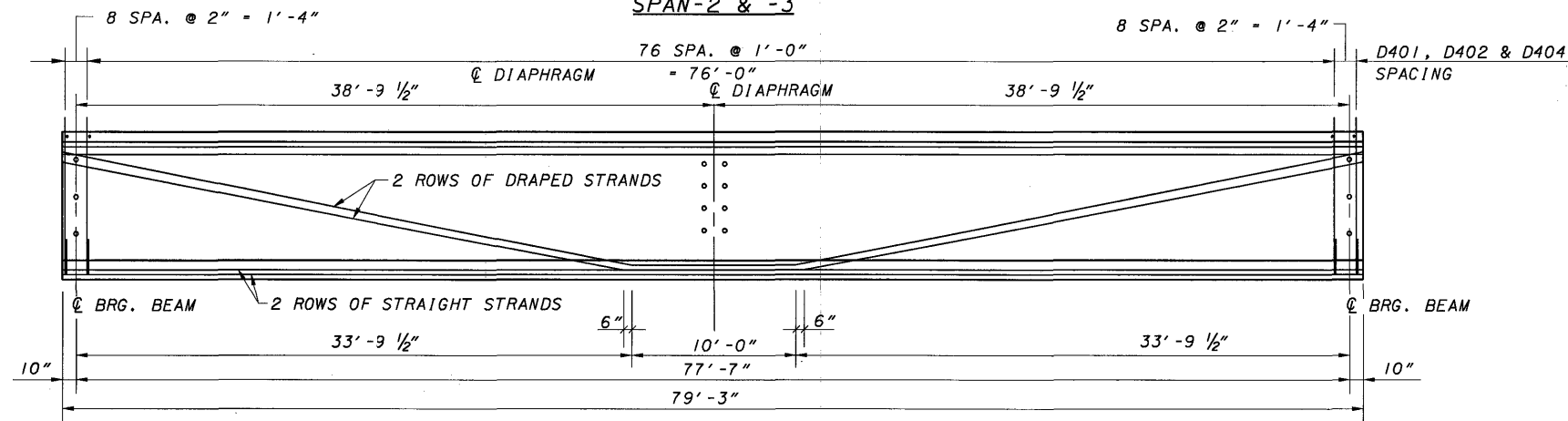
DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 STRUCTURE FILE NUMBER: 7607395 LT.
 7607369 RT.
 REVIEWED: MLM
 DRAWN: KCS
 CHECKED: JEP
 BEAM DETAILS
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD
 STA-30-(6.70)(11.57)
 PID 23754
 10/22
 90
 127



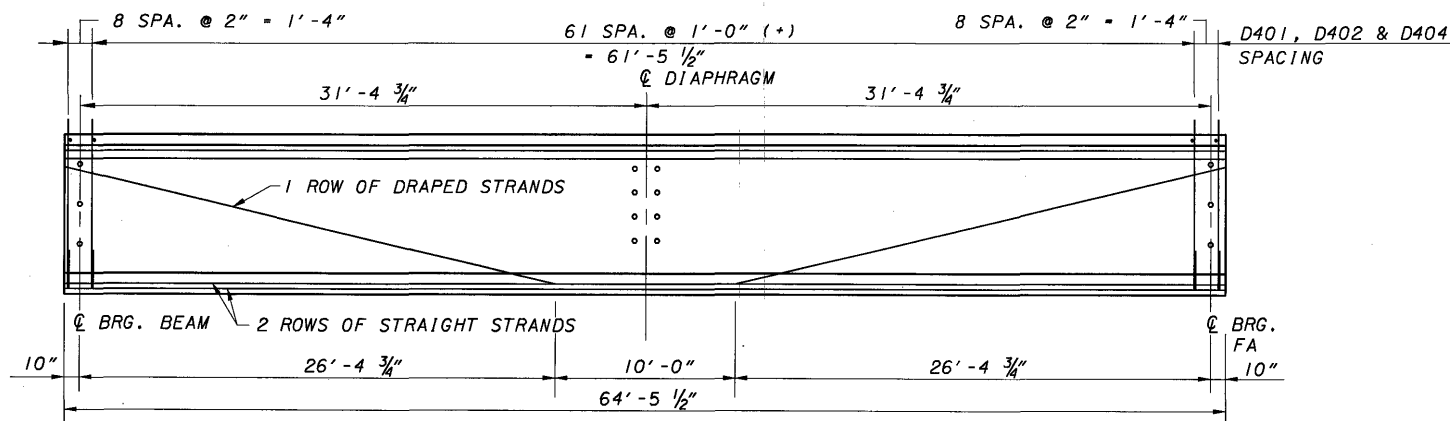
BEAM ELEVATION
SPAN-1



BEAM ELEVATION
SPAN-2 & -3



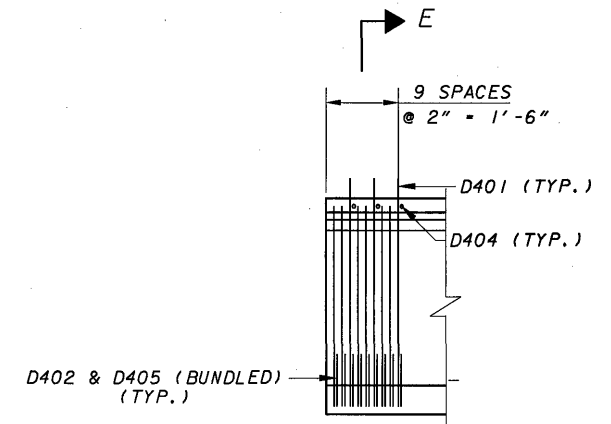
BEAM ELEVATION
SPAN-2 & -3



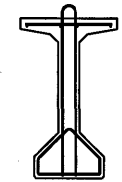
BEAM ELEVATION
SPAN-4



BEAM ELEVATION
SPAN-5



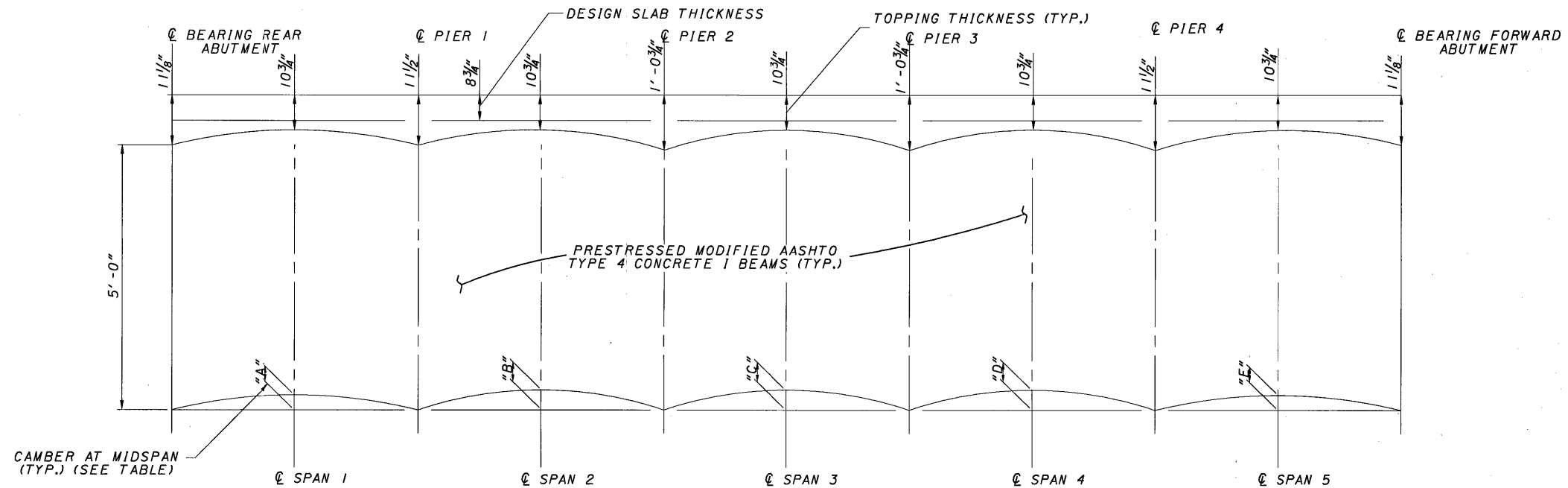
ANCHORAGE REINFORCEMENT
TYP. AT BEAM ENDS



SECTION E-E

NOTES:

1. FOR ADDITIONAL BEAM DETAILS, SEE SHT. 10722.
2. FABRICATOR SHALL INSTALL INTERMEDIATE DIAPHRAGM INSERTS TO AVOID INTERFERENCE WITH THE DRAPED STRANDS.
3. INTERMEDIATE DIAPHRAGMS MAY BE EITHER CAST-IN-PLACE CONCRETE OR GALVANIZED STEEL. THE CONTRACTOR SHALL CHOOSE THE TYPE. DETAILS FOR EACH TYPE ARE PROVIDED IN THE STANDARD BRIDGE DRAWING PSID-1-99.
4. THE CAST-IN-PLACE INTERMEDIATE DIAPHRAGMS TO BE PLACED AND CURED AT LEAST 48 HOURS BEFORE DECK PLACEMENT.
5. THREADED INSERTS SHALL BE USED TO CONNECT CAST-IN-PLACE DIAPHRAGM REINFORCING STEEL TO THE I-BEAM. THE THREADED INSERTS AND THE THREADED RODS SHALL BE GALVANIZED ACCORDING TO CMS 711.02.
6. FOR LIST OF ABBREVIATIONS, SEE SHT. 10722.



BEAM CAMBER AND DECK THICKNESS DIAGRAM

BEAM CAMBERS AT MIDSPAN					
	SPAN 1 "A"	SPAN 2 "B"	SPAN 3 "C"	SPAN 4 "D"	SPAN 5 "E"
CAMBER AT TIME OF RELEASE (NET)	5/16"	1 3/4"	1 3/4"	1/16"	7/16"
CAMBER AT TIME OF ERECTION	9/16"	3"	3"	1 1/4"	1/16"
LONG TERM CAMBER	13/16"	4 5/16"	4 5/16"	1 3/4"	1"

NOTES:

- DECK SLAB THICKNESS FOR CONCRETE QUANTITY
THE TOPPING THICKNESSES SHOWN FROM THE TOP OF THE DECK SLAB TO THE TOP OF THE TOP FLANGE ALONG THE CENTERLINE OF THE I-BEAM ARE THEORETICAL DIMENSIONS. THE HAUNCH DEPTH IS THE TOPPING THICKNESS MINUS THE DESIGN SLAB THICKNESS. THE DEPARTMENT WILL PAY FOR SUPERSTRUCTURE CONCRETE BASED ON THE DESIGN SLAB THICKNESS AND THE AVERAGE OF THE THEORETICAL HAUNCH DEPTH AT MID-SPAN AND AT EACH BEAM BEARING EVEN THOUGH THE DEVIATION FROM THE DIMENSION SHOWN MAY BE NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. ONCE ALL THE BEAMS ARE SET IN THEIR FINAL POSITION, THE ACTUAL CAMBER FOR EACH MEMBER WILL BE THE TOP OF BEAM ELEVATION AT EACH BEARING. THE ACTUAL TOPPING THICKNESS AT MID-SPAN WILL BE THE THEORETICAL DIMENSION PLUS OR MINUS THE DIFFERENCE BETWEEN THE ACTUAL AND ANTICIPATED CAMBER.
- FOR SCREED ELEVATIONS, SEE SHT. 16/22 & SHT. 17/22
- FOR BEAM DETAILS, SEE SHEETS 10/22 AND 11/22
- FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22

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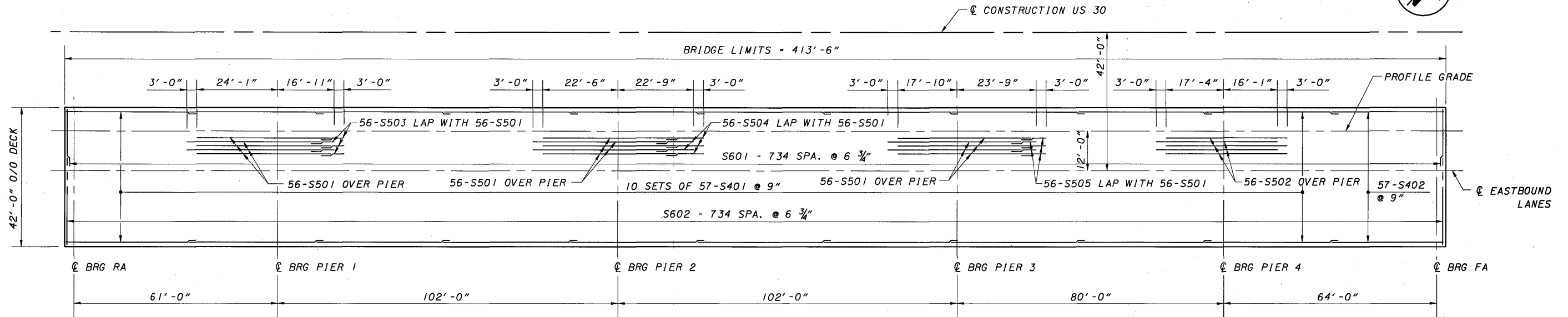
DATE: 12/2005
 REVISED: MLM
 STRUCTURE FILE NUMBER: 7607385 LT.
 7607389 RT.

DRAWN: TCM
 CHECKED: JEP

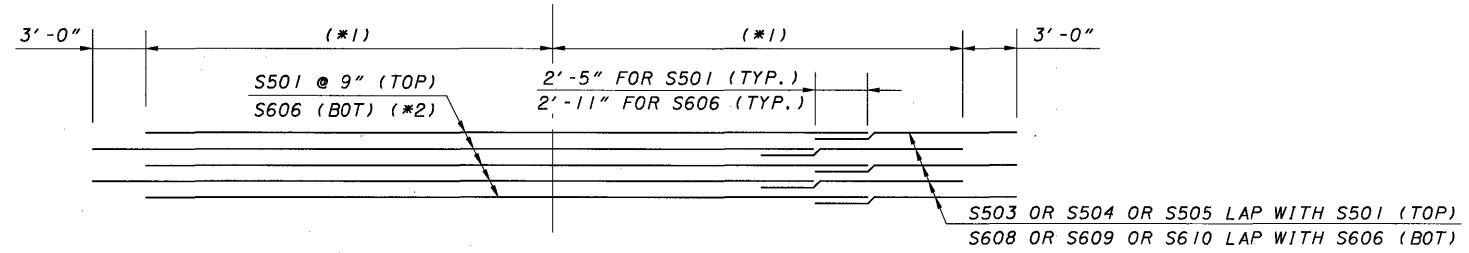
SUPERSTRUCTURE DETAILS
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R. J. CORMAN RAILROAD

STA-30-(6.70) (11.57)
 PID 23754

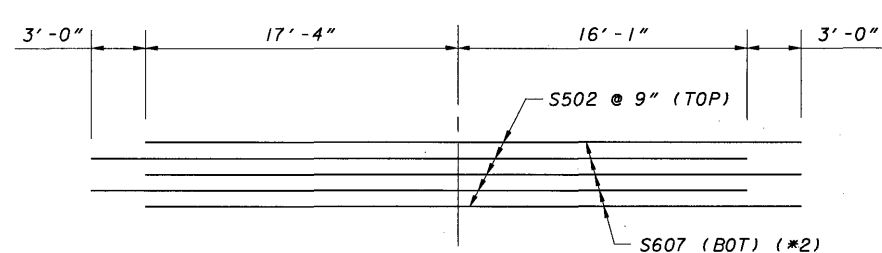
12/22
 92
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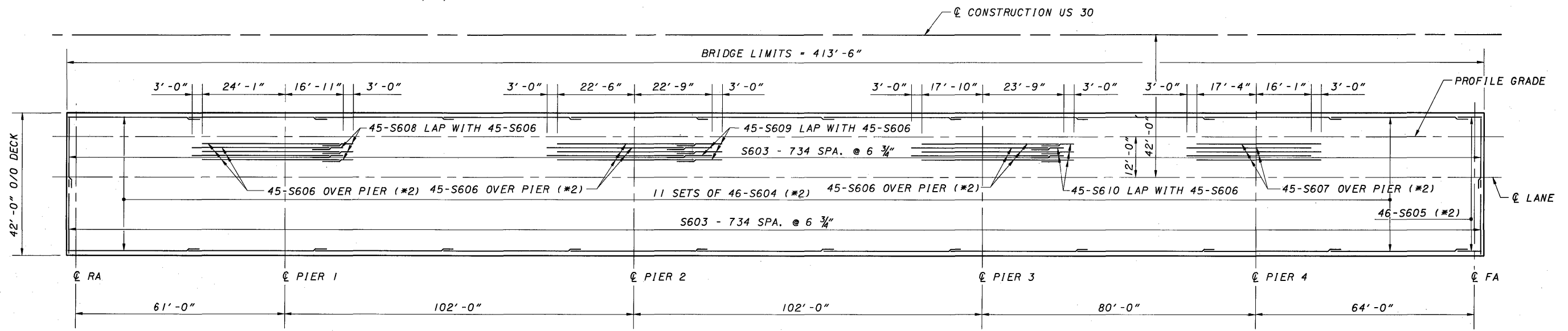
DECK REINFORCING PLAN (TOP)
(RIGHT STRUCTURE SHOWN, LEFT STRUCTURE SYMMETRIC ABOUT \bar{C} CONSTRUCTION US-30)



(*1) - DIMENSION IS SHOWN ABOVE OR BELOW
PIER REINFORCING DETAIL
(PIERS 1, 2, 3)



PIER REINFORCING DETAIL
(PIER 4)



DECK REINFORCING PLAN (BOTTOM)
(RIGHT STRUCTURE SHOWN, LEFT STRUCTURE OPPOSITE HAND)

- NOTES:
 1. FOR DECK POURING SEQUENCE SEE SHEET 15/22.
 2. FOR REINFORCING STEEL LAP LENGTHS, SEE SHEET 2/22.
 3. FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22.

(*2) - FOR SPACING SEE SHT. 15/22

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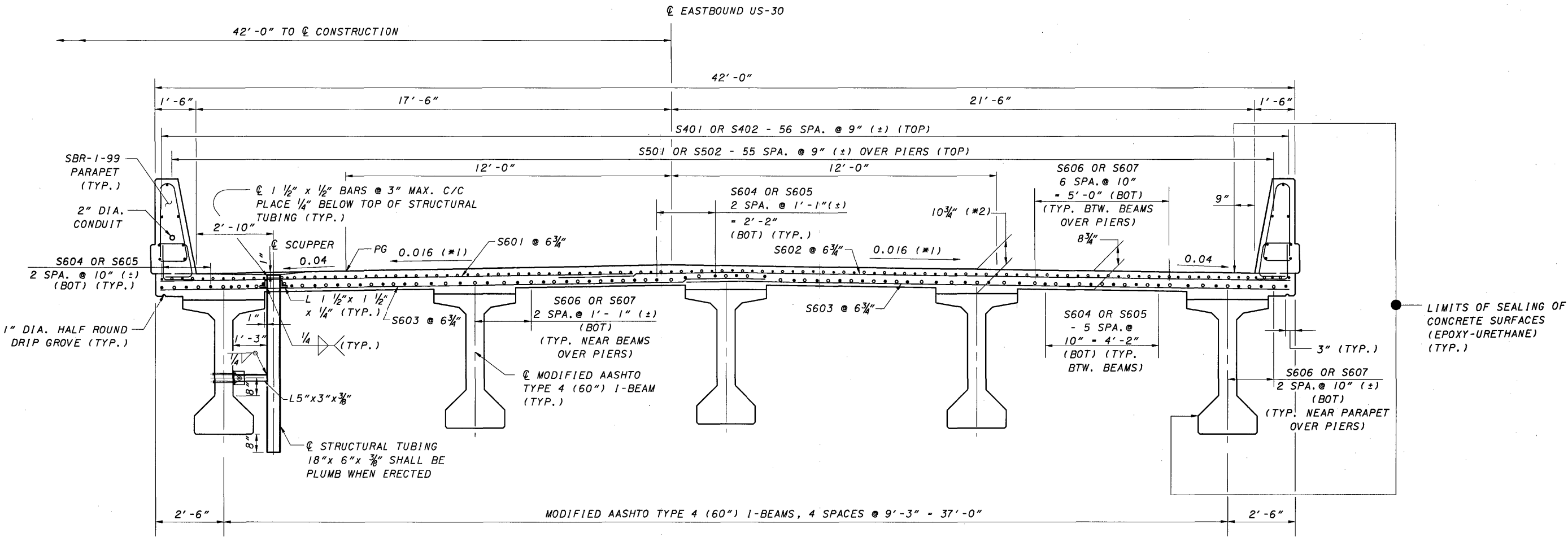
DATE: 12/2005
 MLN: 7607385
 STRUCTURE FILE NUMBER: 7607385 LT.
 7607385 RT.

REVIEWED: KCS
 DRAWN: KCS
 DESIGNED: KCS
 CHECKED: JEP

SUPERSTRUCTURE DETAILS
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R.-J. CORMAN RAILROAD

STA-30-(6.70)(11.57)
 PID 23754

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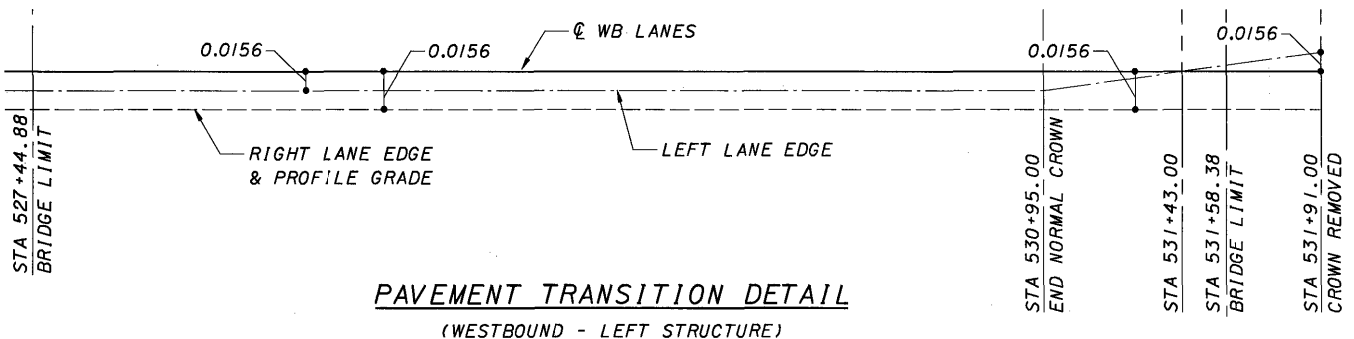
SCUPPER LOCATIONS	
LEFT BRIDGE - WB	RIGHT BRIDGE - EB
STA. 528+00 - RT	STA. 528+00 - LT
STA. 528+90 - RT	STA. 528+90 - LT
STA. 529+80 - RT	STA. 529+80 - LT
STA. 530+45 - RT	STA. 530+45 - LT
STA. 531+35 - LT&RT	STA. 531+35 - LT&RT

TRANSVERSE SECTION
(RIGHT STRUCTURE SHOWN, LEFT STRUCTURE OPPOSITE HAND)

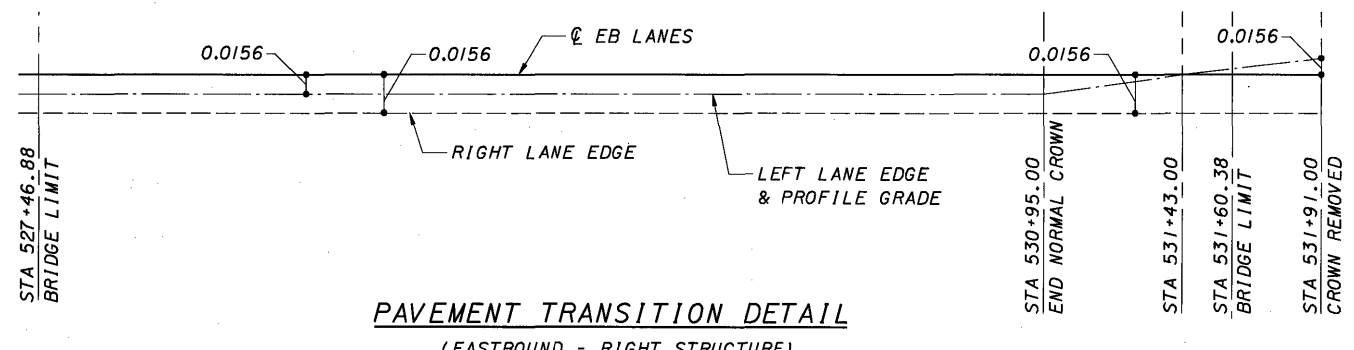
(*1) NORMAL CROWN FROM STA. 527+44.88 (LT), STA. 527+46.88 (RT) TO STA. 530+95.00.

SEE SUPERELEVATION TABLE ON ROADWAY PLANS FOR DETAILS.

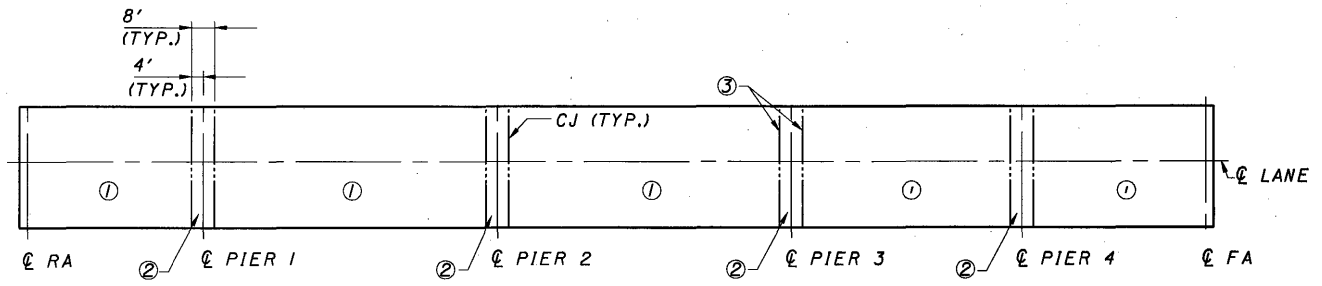
(*2) DIMENSION IS AT MID-SPAN, SEE SHEET 2722 FOR TOPPING THICKNESS.



PAVEMENT TRANSITION DETAIL
(WESTBOUND - LEFT STRUCTURE)



PAVEMENT TRANSITION DETAIL
(EASTBOUND - RIGHT STRUCTURE)



DECK POURING SEQUENCE

- ① DECK POUR TO BE COMPLETED FIRST
- ② PIER DIAPHRAGM AND 8'-0" DECK SECTION WITHIN CONSTRUCTION JOINTS TO BE POURED MONOLITHICALLY AFTER ADJACENT DECK POURS.
- ③ SEAL ALL DECK CONSTRUCTION JOINTS WITH A 2'-0" WIDE STRIP OF MOLECULAR WEIGHT METHACRYLATE RESIN (HMWM).

NOTE:

- 1. FOR ADDITIONAL SCUPPER DETAILS, SEE SHT. 13/22.
- 2. FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 27/22.
- 3. FOR LIST OF ABBREVIATIONS, SEE SHT. 27/22.
- 4. THE CONTRACTOR CAN SUBMIT A CONTINUOUS DECK POUR SEQUENCE AND PLACE THE PIER DIAPHRAGM CONCRETE CONCURRENTLY WITH THE DECK. THE PLACEMENT SUBMITTAL MUST ASSURE THE DECK CONCRETE IN ADJACENT SPANS WILL BE PLACED PRIOR TO THE PIER DIAPHRAGM HAS REACHED ITS INTIAL SET.

DESIGN AGENCY
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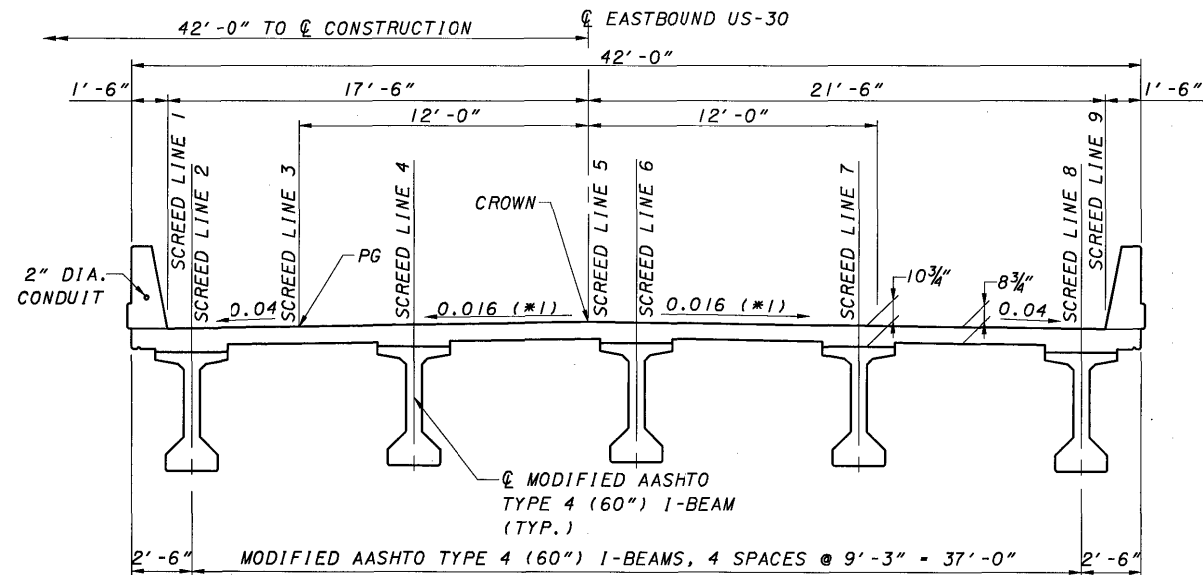
DATE
12/2005
REVISED
MLM
STRUCTURE FILE NUMBER
7607385 LT.
7607369 RT.
DRAWN
KCS
CHECKED
JEP

SUPERSTRUCTURE DETAILS
BRIDGE NO. STA-30-0670 L&R
US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD

STA-30-(6.70)(11.57)
PID 23754

SCREED TABLE - EASTBOUND BRIDGE

	LOCATION	STATION	SCREED LINE 1	SCREED LINE 2	SCREED LINE 3	SCREED LINE 4	SCREED LINE 5	SCREED LINE 6	SCREED LINE 7	SCREED LINE 8	SCREED LINE 9
			ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION
SPAN 1	☉ BRG. RA	527+49.13	970.77	970.81	970.99	971.07	971.18	971.15	971.00	970.65	970.61
	0.25 L	527+64.38	970.41	970.45	970.63	970.70	970.82	970.79	970.64	970.29	970.25
	0.50 L	527+79.63	970.03	970.07	970.25	970.33	970.45	970.41	970.27	969.91	969.87
	0.75 L	527+94.88	969.66	969.70	969.88	969.95	970.07	970.04	969.89	969.54	969.50
SPAN 2	☉ BRG. PIER 1	528+10.13	969.27	969.31	969.49	969.57	969.68	969.65	969.50	969.15	969.11
	0.25 L	528+35.63	968.71	968.75	968.94	969.02	969.13	969.10	968.95	968.59	968.55
	0.50 L	528+61.13	968.11	968.15	968.35	968.42	968.54	968.51	968.36	967.99	967.95
	0.75 L	528+96.83	967.45	967.49	967.69	967.76	967.88	967.85	967.70	967.33	967.29
SPAN 3	☉ BRG. PIER 2	529+12.13	966.76	966.80	966.98	967.06	967.17	967.14	966.99	966.64	966.60
	0.25 L	529+37.63	966.20	966.24	966.43	966.51	966.62	966.59	966.44	966.08	966.04
	0.50 L	529+63.13	965.60	965.64	965.84	965.91	966.03	966.00	965.85	965.48	965.44
	0.75 L	529+88.63	964.94	964.98	965.17	965.25	965.36	965.33	965.18	964.82	964.78
SPAN 4	☉ BRG. PIER 3	530+14.13	964.25	964.29	964.47	964.55	964.66	964.63	964.48	964.13	964.09
	0.25 L	530+34.13	963.79	963.83	964.01	964.09	964.20	964.17	964.02	963.67	963.63
	0.50 L	530+54.13	963.30	963.34	963.53	963.60	963.72	963.69	963.54	963.18	963.14
	0.75 L	531+74.13	962.80	962.84	963.02	963.10	963.21	963.18	963.03	962.68	962.64
SPAN 5	☉ BRG. PIER 4	530+94.13	962.28	962.32	962.50	962.58	962.69	962.66	962.51	962.16	962.12
	0.25 L	531+10.13	961.90	961.94	962.12	962.18	962.25	962.22	962.07	961.72	961.68
	0.50 L	531+26.13	961.50	961.54	961.73	961.75	961.79	961.76	961.61	961.26	961.22
	0.75 L	531+42.13	961.11	961.15	961.33	961.34	961.35	961.31	961.16	960.81	960.77
	☉ BRG. FA	531+58.13	960.71	960.75	960.93	960.91	960.87	960.84	960.69	960.34	960.30



TRANSVERSE SECTION

(*1) - STRUCTURE CONTAINS A NORMAL CROWN FROM REAR BRIDGE LIMITS TO STA 530+95.00 THEN TRANSITIONS TO A SUPERELEVATION

DEFLECTIONS (INCHES) - EASTBOUND BRIDGE

	LOCATION	SCREED LINES 1-2	SCREED LINES 3-7	SCREED LINES 8-9
SPAN 1	☉ BRG. RA	0.000	0.000	0.000
	0.25 L	0.089	0.110	0.089
	0.50 L	0.128	0.158	0.128
	0.75 L	0.089	0.110	0.089
SPAN 2	☉ BRG. PIER 1	0.000	0.000	0.000
	0.25 L	0.721	0.889	0.721
	0.50 L	1.029	1.269	1.029
	0.75 L	0.721	0.889	0.721
SPAN 3	☉ BRG. PIER 2	0.000	0.000	0.000
	0.25 L	0.721	0.889	0.721
	0.50 L	1.029	1.269	1.029
	0.75 L	0.721	0.889	0.721
SPAN 4	☉ BRG. PIER 3	0.000	0.000	0.000
	0.25 L	0.261	0.323	0.261
	0.50 L	0.373	0.462	0.373
	0.75 L	0.261	0.323	0.261
SPAN 5	☉ BRG. PIER 4	0.000	0.000	0.000
	0.25 L	0.108	0.134	0.108
	0.50 L	0.155	0.191	0.155
	0.75 L	0.108	0.134	0.108
	☉ BRG. FA	0.000	0.000	0.000

NOTE:

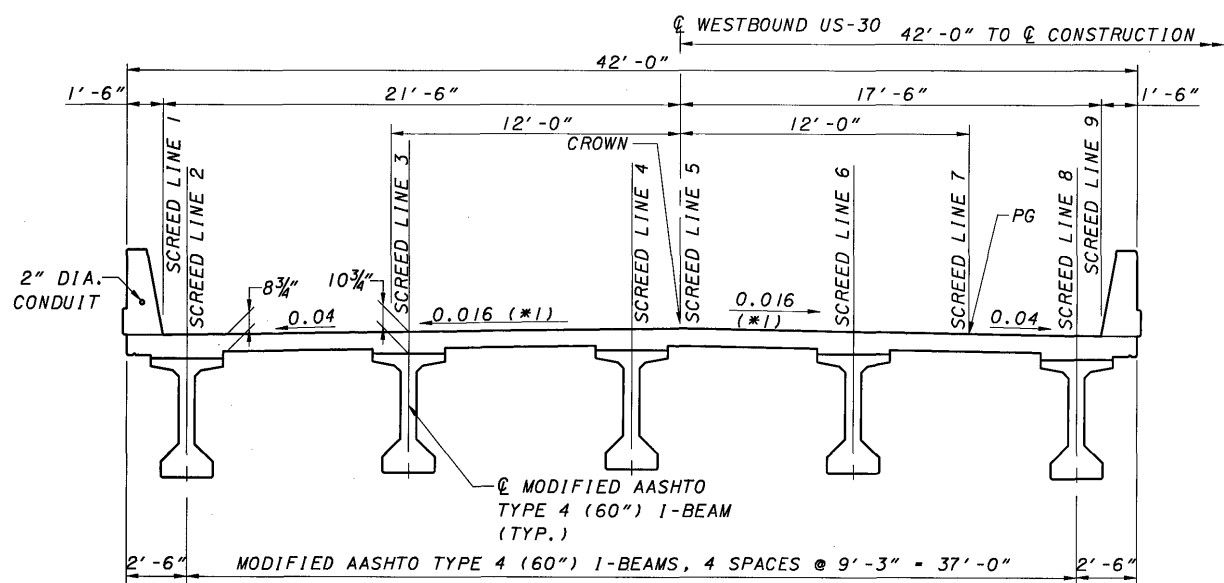
1. SCREED ELEVATIONS SHOWN ARE FOR THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEAD LOAD DEFLECTIONS.

2. FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22.

DESIGN AGENCY: **BARR & PREVOST**
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 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 STRUCTURE FILE NUMBER: 7607-385 LT. 7607-389 RT.
 REVIEWED: MLM
 DRAWN: SRR
 DESIGNED: SRR
 CHECKED: KCS
 STA-30-(6.70) (11.57)
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R. J. CORMAN RAILROAD
 PID 23754
 16/22
 96
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SCREED TABLE - WESTBOUND BRIDGE

	LOCATION	STATION	SCREED LINE 1	SCREED LINE 2	SCREED LINE 3	SCREED LINE 4	SCREED LINE 5	SCREED LINE 6	SCREED LINE 7	SCREED LINE 8	SCREED LINE 9
			ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION	ELEVATION
SPAN 1	☉ BRG. RA	527+47.13	970.66	970.70	971.05	971.20	971.23	971.12	971.04	970.86	970.82
	0.25 L	527+62.38	970.30	970.34	970.69	970.84	970.87	970.75	970.68	970.50	970.46
	0.50 L	527+77.63	969.92	969.96	970.32	970.46	970.50	970.38	970.30	970.12	970.08
	0.75 L	527+62.88	969.55	969.59	969.94	970.09	970.12	970.00	969.93	969.75	969.68
SPAN 2	☉ BRG. PIER 1	528+08.13	969.16	969.20	969.55	969.70	969.73	969.62	969.54	969.36	969.32
	0.25 L	528+33.63	968.60	968.64	969.00	969.15	969.18	969.07	968.99	968.80	968.76
	0.50 L	528+59.13	968.00	968.04	968.41	968.56	968.59	968.47	968.40	968.20	968.16
	0.75 L	528+84.63	967.34	967.38	967.74	967.89	967.92	967.81	967.73	967.54	967.50
SPAN 3	☉ BRG. PIER 2	529+10.13	966.65	966.69	967.04	967.19	967.22	967.11	967.03	966.85	966.81
	0.25 L	529+35.63	966.09	966.13	966.49	966.64	966.67	966.56	966.48	966.29	966.25
	0.50 L	529+61.13	965.49	965.53	965.90	966.05	966.08	965.96	965.89	965.69	965.65
	0.75 L	529+85.63	964.83	964.87	965.23	965.38	965.41	965.30	965.22	965.03	964.99
SPAN 4	☉ BRG. PIER 3	530+12.13	964.14	964.18	964.53	964.68	964.71	964.60	964.52	964.34	964.30
	0.25 L	530+32.13	963.68	963.72	964.07	964.22	964.25	964.14	964.06	963.88	963.84
	0.50 L	530+52.13	963.19	963.23	963.59	963.74	963.77	963.65	963.58	963.39	963.35
	0.75 L	530+72.13	962.69	962.73	963.08	963.23	963.26	963.15	963.07	962.89	962.85
SPAN 5	☉ BRG. PIER 4	530+92.13	962.17	962.21	962.56	962.71	962.74	962.63	962.55	962.37	962.33
	0.25 L	531+08.13	961.85	961.89	962.24	962.34	962.36	962.25	962.17	961.99	961.95
	0.50 L	531+24.13	961.51	961.55	961.90	961.96	961.97	961.85	961.78	961.59	961.55
	0.75 L	531+40.13	961.18	961.22	961.56	961.57	961.57	961.46	961.38	961.20	961.16
	☉ BRG. FA	531+56.13	960.84	960.88	961.22	961.18	961.17	961.06	960.98	960.80	960.76



(*1) - STRUCTURE CONTAINS A NORMAL CROWN FROM REAR BRIDGE LIMITS TO STA 530+95.00 THEN TRANSITIONS TO A SUPERELEVATION

DEFLECTIONS (INCHES) - WESTBOUND BRIDGE

	LOCATION	SCREED LINES 1-2	SCREED LINES 3-7	SCREED LINES 8-9
SPAN 1	☉ BRG. RA	0.000	0.000	0.000
	0.25 L	0.089	0.110	0.089
	0.50 L	0.128	0.158	0.128
	0.75 L	0.089	0.110	0.089
SPAN 2	☉ BRG. PIER 1	0.000	0.000	0.000
	0.25 L	0.721	0.889	0.721
	0.50 L	1.029	1.269	1.029
	0.75 L	0.721	0.889	0.721
SPAN 3	☉ BRG. PIER 2	0.000	0.000	0.000
	0.25 L	0.721	0.889	0.721
	0.50 L	1.029	1.269	1.029
	0.75 L	0.721	0.889	0.721
SPAN 4	☉ BRG. PIER 3	0.000	0.000	0.000
	0.25 L	0.261	0.323	0.261
	0.50 L	0.373	0.462	0.373
	0.75 L	0.261	0.323	0.261
SPAN 5	☉ BRG. PIER 4	0.000	0.000	0.000
	0.25 L	0.108	0.134	0.108
	0.50 L	0.155	0.191	0.155
	0.75 L	0.108	0.134	0.108
	☉ BRG. FA	0.000	0.000	0.000

NOTE:
 1. SCREED ELEVATIONS SHOWN ARE FOR THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE FOR ANTICIPATED CALCULATED DEAD LOAD DEFLECTIONS.
 2. FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22.

DESIGN AGENCY
BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

DATE
 12/2005

REVISIONS
 ML/M
 STRUCTURE FILE NUMBER
 7607385 LT.
 7607389 RT.

DRAWN
 SRR
 CHECKED
 KCS

DESIGNED
 SRR
 CHECKED
 KCS

SCREED ELEVATIONS
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R. J. CORMAN RAILROAD

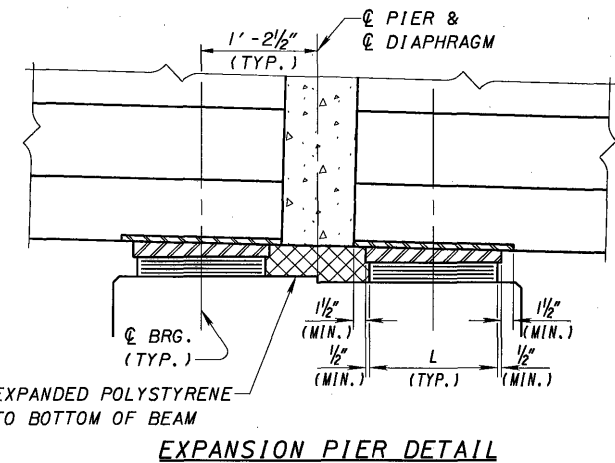
STA-30-(6.70) (11.57)
PID 23754

17/22

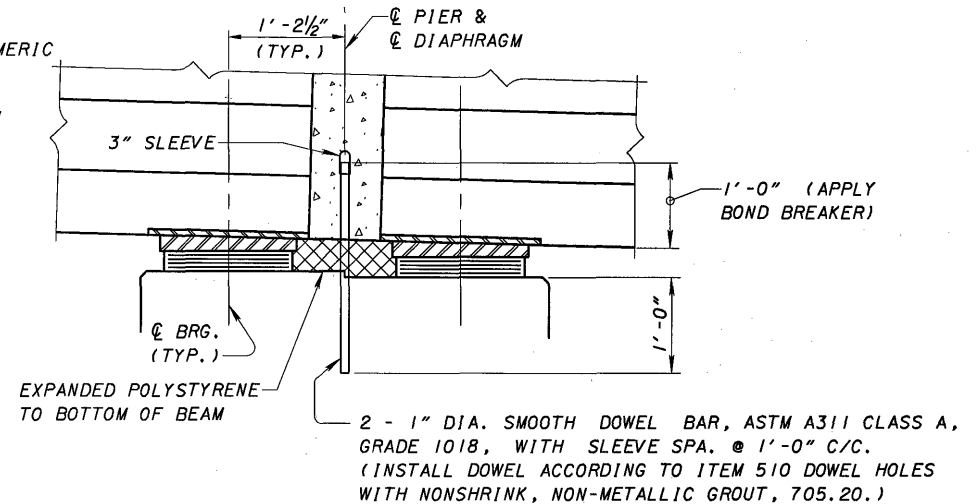
97
 127

LAMINATED ELASTOMERIC BEARINGS										
LOCATION	BEARING DIMENSIONS						STEEL LOAD PLATE LENGTH X WIDTH X THICKNESS	REACTIONS		MAXIMUM DESIGN LOAD
	L	W	t _i	t _e	T	N		DL	LL	
REAR ABUTMENT	1'-2"	1'-1"	3/8"	1/4"	2 3/16"	6	1'-3" X 1'-2" X 1 1/2"	102 K	36 K	138 K
PIER 1	1'-4"	1'-4 1/2"	7/16"	5/16"	3 1/4"	6	1'-5" X 1'-5 1/2" X 1 1/2"	176 K	54 K	230 K
PIERS 2 & 3	1'-4 1/2"	1'-4 1/2"	7/16"	5/16"	4 1/4"	8	1'-5 1/2" X 1'-5 1/2" X 1 1/2"	183 K	60 K	243 K
PIER 4	1'-3"	1'-2 1/2"	7/16"	5/16"	4 1/4"	8	1'-4" X 1'-3 1/2" X 1 1/2"	116 K	50 K	166 K
FORWARD ABUTMENT	1'-1 1/2"	1'-1 1/2"	7/16"	5/16"	2 3/4"	6	1'-2 1/2" X 1'-2 1/2" X 1 1/2"	92 K	36 K	128 K

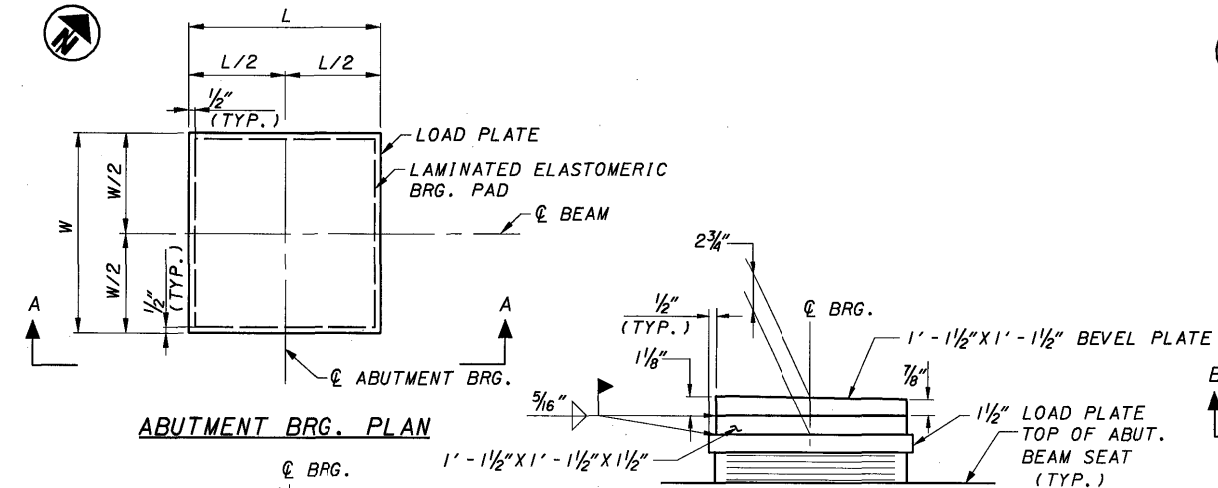
t_i - THICKNESS OF INTERNAL LAYER
t_e - THICKNESS OF EXTERNAL LAYER
T - TOTAL THICKNESS OF ELASTOMERIC BEARING
N - NO. OF STEEL LAMINATES
INTERNAL STEEL LAMINATE THICKNESS = 0.0747"
DUROMETER OF ABUTMENT ELASTOMER = 50 DUROMETER



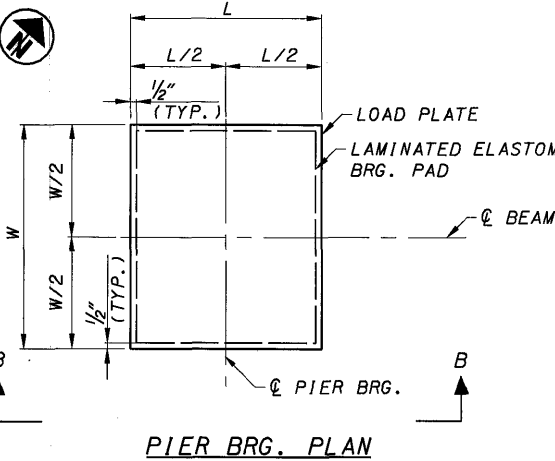
EXPANSION PIER DETAIL



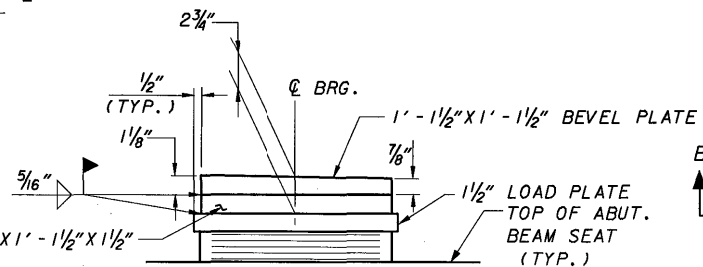
FIXED PIER DETAIL



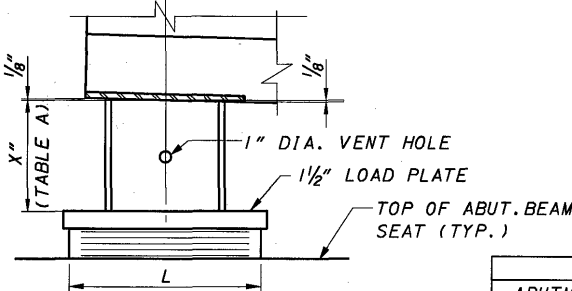
ABUTMENT BRG. PLAN



PIER BRG. PLAN



DETAIL A

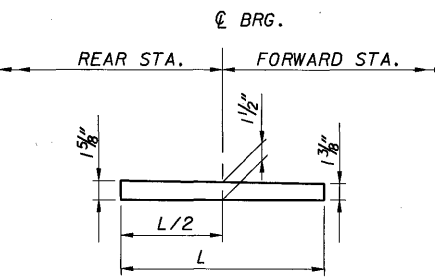


VIEW A-A

(REAR ABUTMENT SHOWN, FORWARD OPPOSITE HAND)

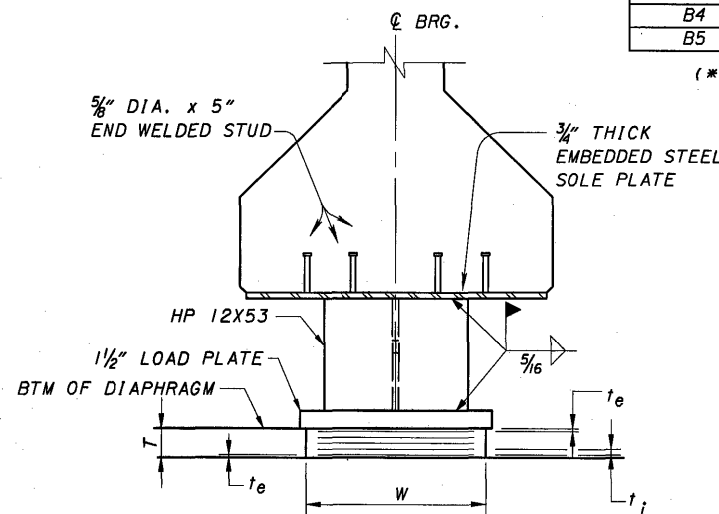
ABUTMENT LOCATION	REAR		FORWARD	
	EB	WB	EB	WB
B1	8 3/8"	7 3/8"	6 1/8"	2 3/4" (*1)
B2	10"	10"	8 1/8"	8 3/8"
B3	10"	10"	9 1/2"	9"
B4	10"	10"	9 3/4"	9"
B5	7 5/8"	8 3/4"	6 3/4"	8 1/8"

(*1) - CONTRACTOR HAS THE OPTION TO USE WELDED FILL PLATES AT THIS LOCATION. SEE DETAIL A

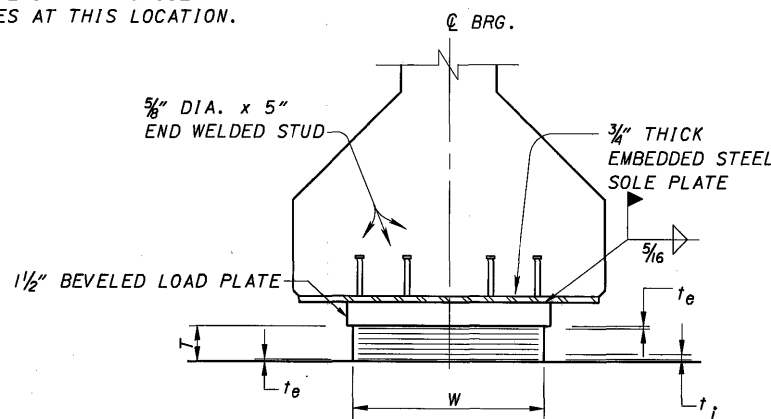


BEVELED LOAD PLATE

(PIERS ONLY)



LAMINATED ELASTOMERIC EXPANSION BRG. @ ABUTMENTS

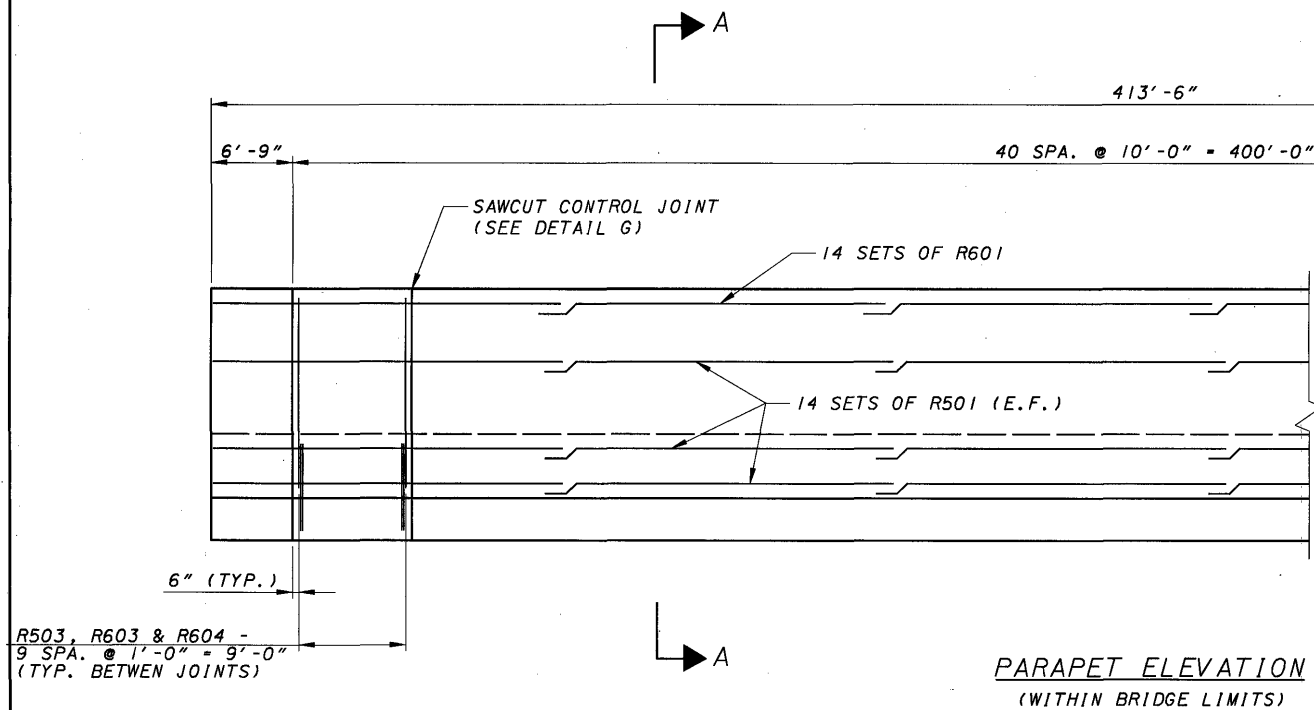


LAMINATED ELASTOMERIC EXPANSION BRG. @ PIERS

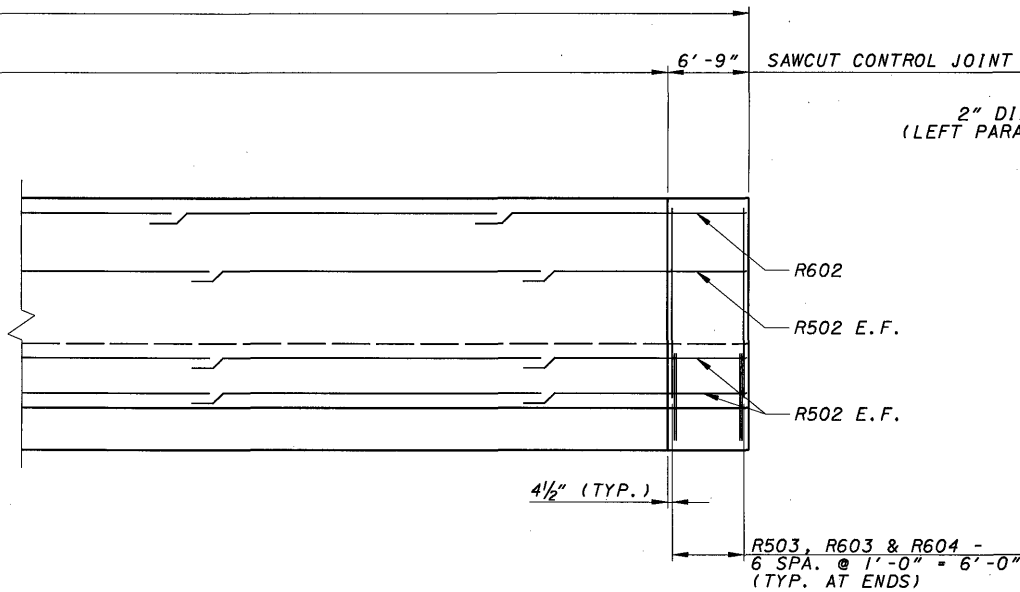
NOTES:

- THE BEARING ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION 1, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
- THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS, INCLUDING LOAD PLATES AND HP SHAPES. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516, ELASTOMERIC BEARING PAD WITH INTERNAL LAMINATES (NEOPRENE) AND STEEL LOAD PLATE.
- THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS. THE STEEL LOAD PLATE AND HP SHAPE SHALL BE A MINIMUM OF A36 STEEL.
- CONTROL WELDING SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300°F AS DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
- IF THE BEAMS SEATS ARE SEALED WITH AN EPOXY OR NON-EPOXY SEALER PRIOR TO SETTING THE BEARINGS, DO NOT APPLY SEALER TO THE CONCRETE SURFACES UNDER THE PROPOSED BEARING LOCATIONS. IF THESE LOCATIONS ARE SEALED, REMOVE THE SEALER TO THE SATISFACTION OF THE ENGINEER PRIOR TO SETTING THE BEARINGS. THE DEPARTMENT WILL NOT PAY FOR THIS REMOVAL.
- FOR LIST OF ABBREVIATIONS, SEE SHEET. 2722
- FOR BEAM LAYOUT DESIGNATION, SEE SHEET. 2722

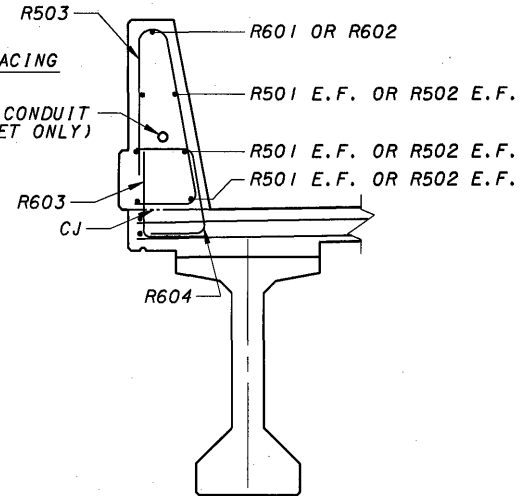
DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 REVISED: ML/M
 STRUCTURE FILE NUMBER: 7607395 LT.
 7607369 RT.
 DRAWN: KCS
 CHECKED: JEP
 DESIGNED: KCS
 BEARING DETAILS
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R. J. CORMAN RAILROAD
 STA-30-(6.70)(11.57)
 PID 23754
 18/22
 98
 127



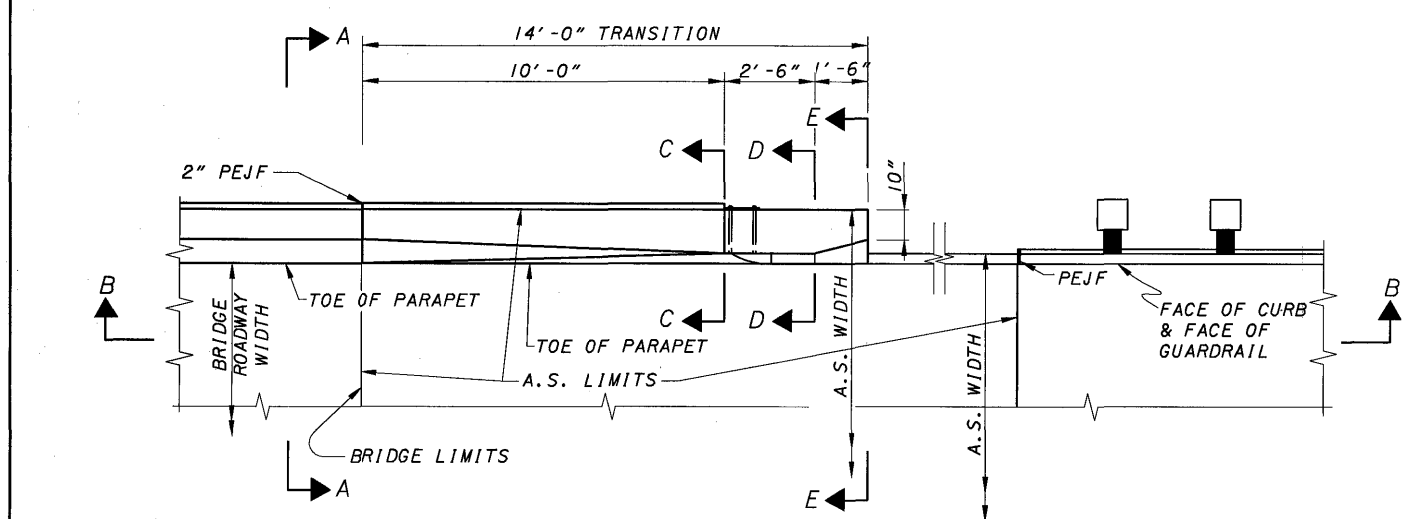
PARAPET ELEVATION
(WITHIN BRIDGE LIMITS)



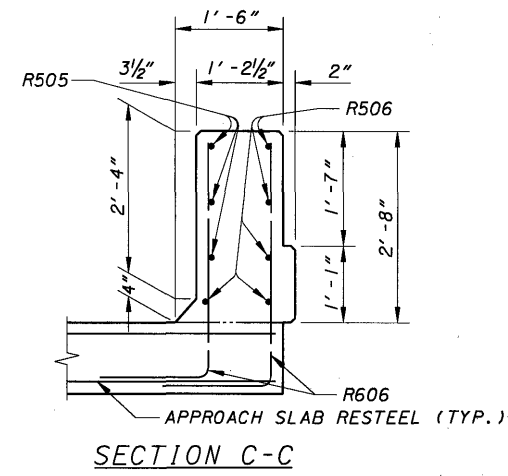
SECTION A-A



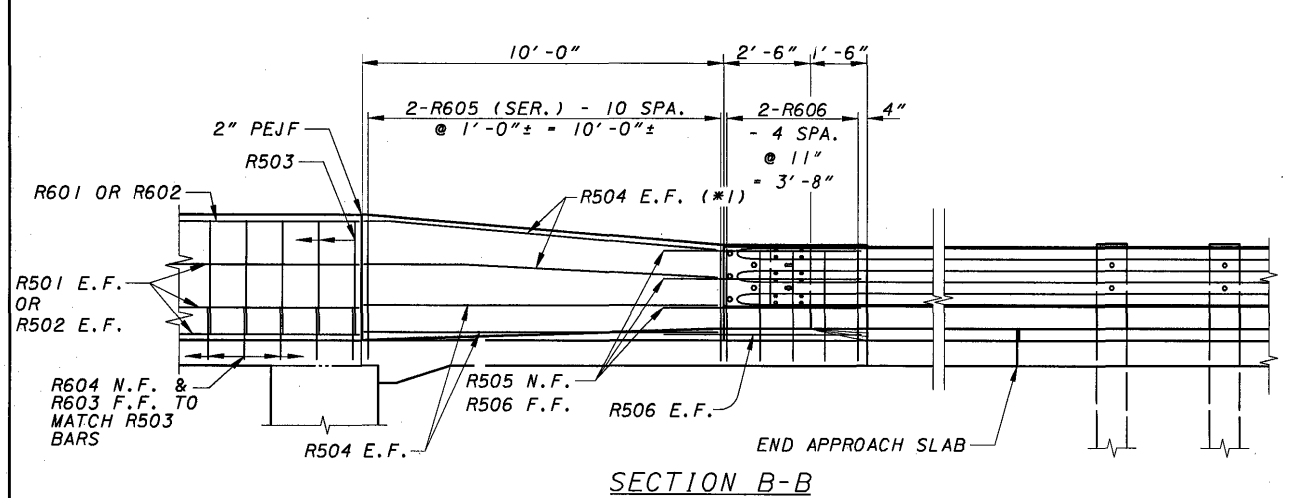
DETAIL G



PART-PLAN AT ABUTMENT

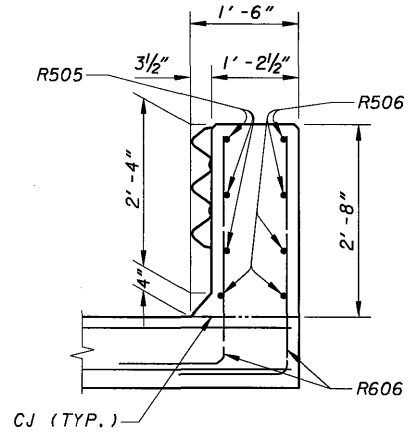


SECTION C-C

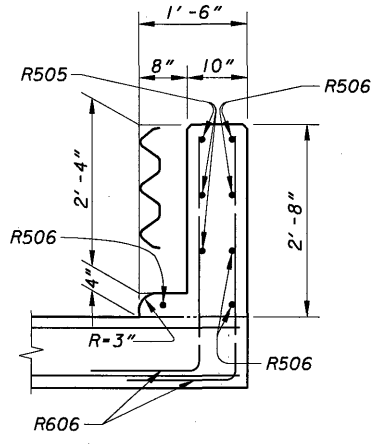


SECTION B-B

(*1) - FIELD BEND AS NECESSARY
 (*2) - R503, R603 & R604 - 14 SPA. @ 9" = 10'-6"



SECTION D-D



SECTION E-E

- NOTES:
1. FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22.
 2. FOR TRANSVERSE SECTION, SEE SHT. 15/22.
 3. FOR ADDITIONAL PARAPET TRANSITION DETAILS, SEE STD. DWG. SBR-1-99.
 4. FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2/22.

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

DATE: 12/2005
 REVIEWED: JEP
 STRUCTURE FILE NUMBER: 7607385 LT., 7607389 RT.

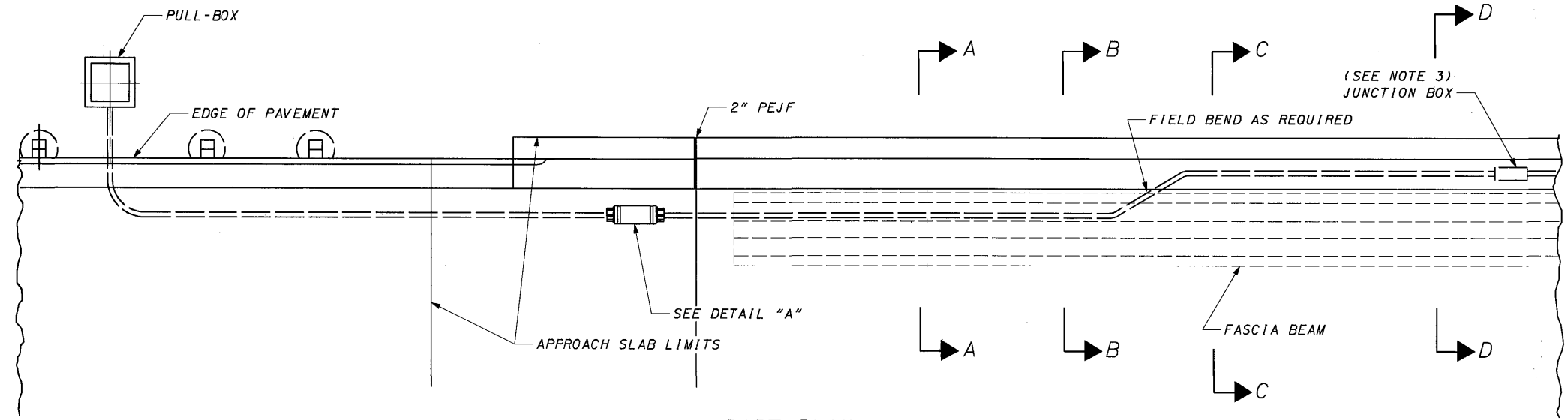
DESIGNED: SRR
 CHECKED: KCS

PARAPET DETAILS
 BRIDGE NO. STA-30-0670 L&R
 US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD

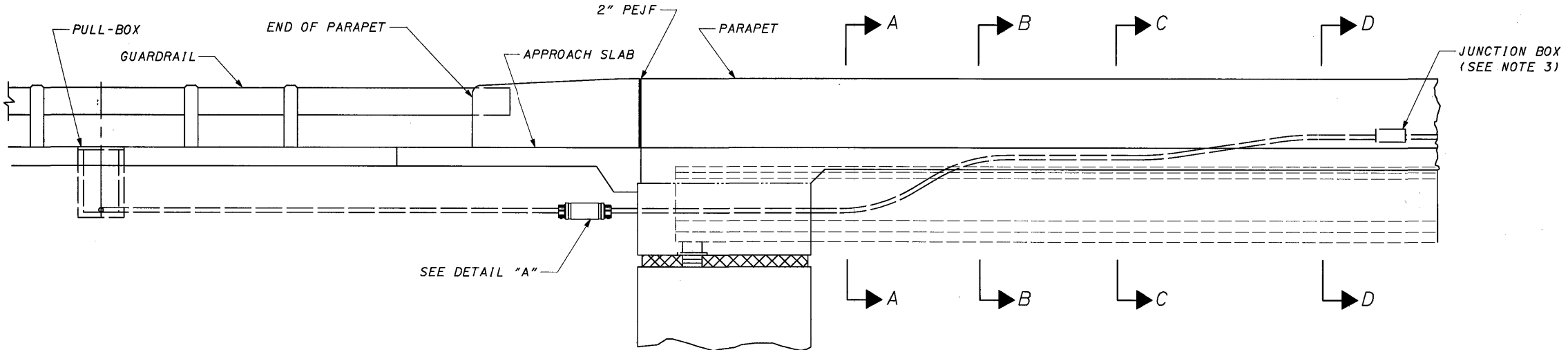
STA-30-(6.70) (11.57)
 PID 23754

19/22

99
 127

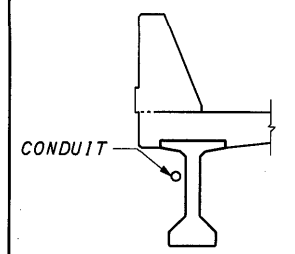


PART PLAN
(LEFT PARAPET CONDUIT DETAIL AT ABUTMENTS)

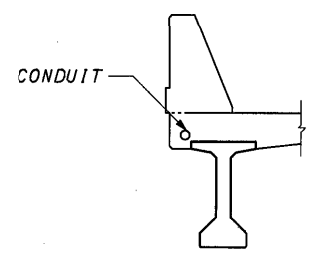


ELEVATION
(LEFT PARAPET CONDUIT DETAIL AT ABUTMENTS)

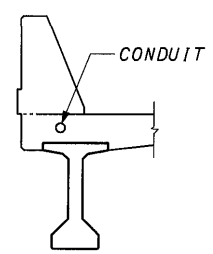
LOCATION	625	625	625
	CONDUIT, 2", 725.04	JUNCTION BOX (6"x6"x4")	PULL BOX, 725.08, 24"
	FT	EACH	EACH
STA-30-0670 R	525	2	2
STA-30-0670 L	525	2	2
TOTALS CARRIED TO GENERAL SUMMARY	1050	4	4



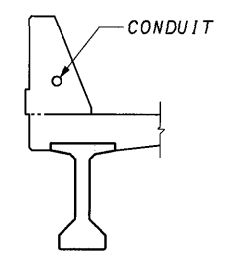
SECTION A-A



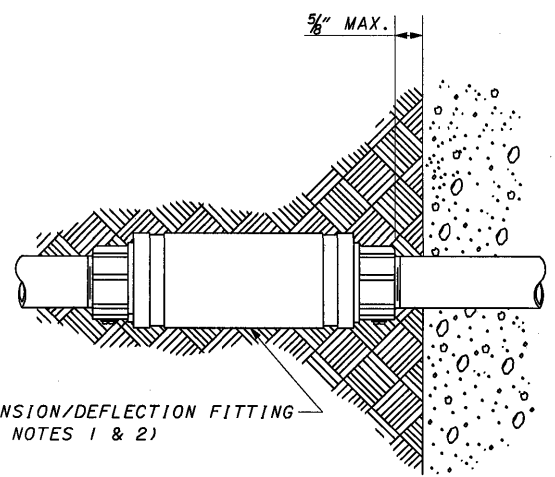
SECTION B-B



SECTION C-C



SECTION D-D



DETAIL "A"

NOTES:

1. THE EXPANSION/DEFLECTION FITTING (NEMA 4 RATING) SHALL CONSIST OF IRON OR BRONZE END COUPLINGS IN A HEAVY DUTY NEOPRENE SLEEVE HELD IN PLACE BY STAINLESS STEEL BONDS. A COPPER BRAID BONDING JUMPER SHALL BE INSTALLED INSIDE THE SLEEVE BETWEEN THE END COUPLINGS FOR GROUNDING CONTINUITY.
2. AT THE END OF THE ABUTMENT, PLACE CONDUIT IN CONCRETE WITH THREADS ONLY EXPOSED, COMPACT BACKFILL UP TO LEVEL OF CONDUIT, THEN ATTACH EXPANSION/DEFLECTION FITTING ALONG WITH REMAINING CONDUIT AND COMPLETE COMPACTION OF BACKFILL.
3. IF NO OTHER PULLING CAPABILITY IS LOCATED NEAR THE END OF THE BRIDGE, AN INTERNAL-FLANGE JUNCTION BOX MEETING 725.10 AND A MINIMUM LENGTH OF 5 CONDUIT DIAMETERS, SHALL BE INSTALLED.
4. FOR GROUNDING OF BRIDGE STRUCTURE, SEE ST. DWG. HL-50.21.
5. FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22.

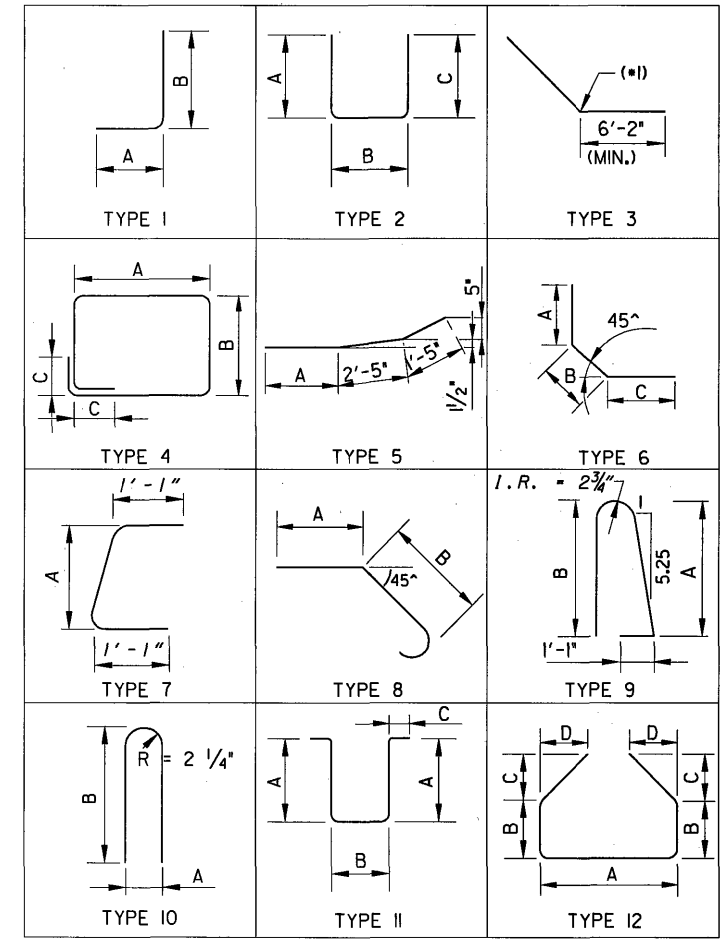
REINFORCING STEEL LIST - RIGHT BRIDGE

(*) FIELD BEND AS NECESSARY

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	INCR.
ABUTMENTS									
A503	104	5'-2"	561	2	1'-11"	1'-7"	1'-11"		
W501	32	17'-6"	582	STR					
	8	11'-3"							
W502	S.O.	TO	476	STR					2'-0"
	4	17'-3"							
W503	32	11'-0"	367	STR					
W601	96	11'-6"	1658	STR					
W602	48	6'-3"	451	STR					
	8	3'-11"							
W603	S.O.	TO	452	STR					6"
	7	6'-10"							
A804	104	4'-0"	1111	STR					
A805	24	12'-0"	769	STR					
W801	48	5'-8"	726	STR					
D801	60	5'-2"	828	8	1'-5"	2'-8"			
ABUTMENTS TOTAL = 7,981 LBS.									
PIERS									
P501	16	9'-9"	163	2	3'-0"	4'-0"	3'-0"		
	32	9'-5"			3'-8"		3'-8"		
P502	S.O.	TO	8211	2	TO	2'-4"	TO		6"
	18	17'-11"			7'-11"		7'-11"		
P503	400	18'-3"	7614	2	8'-1"	2'-4"	8'-1"		
P601	24	14'-6"	523	4	4'-0"	3'-0"	0'-8"		
P602	16	4'-3"	102	1	1'-6"	2'-11"			
P603	96	8'-0"	1154	STR					
P801	32	41'-2"	3518	STR					
	8	27'-6"							
P802	S.O.	TO	5605	STR					2'-7"
	5	37'-8"							
P901	104	4'-2"	1459	1	1'-6"	2'-11"			
P902	24	23'-4"	1904	STR					
P903	48	16'-6"	2685	3					
P1101	29	47'-10"	7370	2	3'-8"	41'-2"	3'-8"		
P1102	43	41'-5"	9443	STR					
PIERS TOTAL = 49,751 LBS.									
END DIAPHRAGMS									
S506	120	14'-2"	1773	2	5'-6"	3'-5"	5'-6"		
S507	60	7'-5"	464	2	2'-5"	2'-10"	2'-5"		
S801	22	41'-6"	2439	STR					
S802	24	8'-3"	529	STR					
S803	64	10'-7"	1808	6	1'-11"	2'-8"	6'-1"		
END DIAPHRAGMS TOTAL = 7,013 LBS.									

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	INCR.
SUPERSTRUCTURE									
S401	570	40'-0"	15231	STR					
S402	57	33'-6"	1276	STR					
S501	168	40'-0"	7009	STR					
S502	56	36'-5"	2127	STR					
S503	56	6'-5"	375	STR					
S504	56	10'-8"	623	STR					
S505	56	7'-0"	409	STR					
S601	735	17'-10"	19688	STR					
S602	735	27'-1"	29899	STR					
S603	1470	22'-6"	49495	STR					
S604	506	40'-0"	30401	STR					
S605	46	7'-0"	484	STR					
S606	135	40'-0"	8111	STR					
S607	45	36'-5"	2462	STR					
S608	45	6'-11"	468	STR					
S609	45	11'-2"	755	STR					
S610	45	7'-6"	507	STR					
SUPERSTRUCTURE TOTAL = 169,320 LBS.									
PIER DIAPHRAGMS									
S403	12	11'-4"	70	10	0'-5 1/2"	4'-0"			
S404	12	4'-10"	39	12	1'-11 1/2"	0'-6 1/4"	0'-8 1/2"	0'-8 1/2"	
S405	112	9'-7"	717	11	3'-6"	1'-11"	0'-6"		
S406	12	2'-8"	22	STR					
S611	128	10'-6"	2019	6	2'-10"	1'-0"	6'-9"		
S612	96	8'-3"	1190	STR					
PIER DIAPHRAGMS TOTAL = 4,057 LBS.									
PARAPETS									
R501	168	30'-0"	5257	STR					
R502	12	28'-3"	354	STR					
R503	828	7'-5"	6405	9	3'-2"	3'-0"			
R504	32	10'-0"	334	STR					
R505	12	5'-6"	69	5	1'-8"				
R506	20	5'-6"	115	STR					
R601	28	30'-0"	1262	STR					
R602	2	35'-6"	107	STR					
R603	828	2'-4"	2902	1	1'-1"	1'-5"			
R604	828	3'-5"	4249	7	1'-5"				
	8	4'-4"			3'-6"				
R605	S.O.	TO	623	1	TO	1'-0"			1"
	11	5'-1"			4'-3"				
R606	40	4'-4"	261	1	3'-6"	1'-0"			
PARAPETS TOTAL = 21,938 LBS.									
GRAND TOTAL = 260,060 LBS.									

BENDING DIAGRAMS



- NOTES:**
- THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, S501 IS A NO. 5 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
 - "STR." IN THE TYPE COLUMN INDICATES STRAIGHT BARS.
 - S.O. DENOTES "SERIES OF".
 - REFER TO C.M.S. SECTION 509.05 FOR STANDARD BEND DIMENSIONS.
 - ALL REINFORCING BARS SHALL BE EPOXY COATED. COATING WHICH HAS BEEN DAMAGED OR OTHERWISE DOES NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS. PAYMENT SHALL BE INCLUDED WITH ITEM 509 FOR PAYMENT.
 - FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22.

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 REVIEWED: JEP
 DRAWN: SRR
 DESIGNED: SRR
 CHECKED: KCS
 STRUCTURE FILE NUMBER: 7607369 RT.
REINFORCING STEEL LIST
 BRIDGE NO. STA-30-0670 RIGHT
 US 30 OVER TUSCARAWAS RIVER & R. J. CORMAN RAILROAD
 STA-30-(6.70)/(11.57)
 PID 23754
 21/22
 101
 127

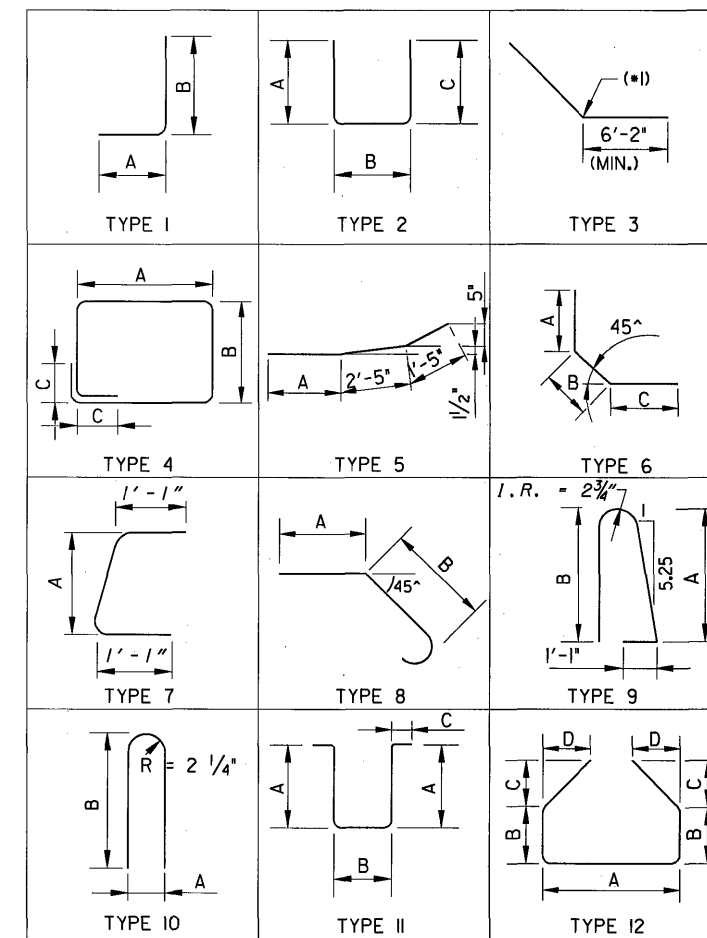
REINFORCING STEEL LIST - LEFT BRIDGE

(*) FIELD BEND AS NECESSARY

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	INCR.
ABUTMENTS									
A503	104	5'-2"	561	2	1'-11"	1'-7"	1'-11"		
W501	32	17'-6"	582	STR					
	8	11'-3"							
W502	S.O.	TO	476	STR					2'-0"
	4	17'-3"							
W503	32	11'-0"	367	STR					
W601	96	11'-6"	1658	STR					
W602	48	6'-3"	451	STR					
	8	3'-11"							
W603	S.O.	TO	452	STR					6"
	7	6'-10"							
A804	104	4'-0"	1111	STR					
A805	24	12'-0"	769	STR					
W801	48	5'-8"	726	STR					
D801	60	5'-2"	828	8	1'-5"	2'-8"			
ABUTMENTS TOTAL = 7,981 LBS.									
PIERS									
P501	16	9'-9"	163	2	3'-0"	4'-0"	3'-0"		
	32	9'-5"			3'-8"		3'-8"		
P502	S.O.	TO	8211	2	TO	2'-4"	TO		6"
	18	17'-11"			7'-11"		7'-11"		
P503	400	18'-3"	7614	2	8'-1"	2'-4"	8'-1"		
P601	24	14'-6"	523	4	4'-0"	3'-0"	0'-8"		
P602	16	4'-3"	102	1	1'-6"	2'-11"			
P603	96	8'-0"	1154	STR					
P801	32	41'-2"	3518	STR					
	8	27'-6"							
P802	S.O.	TO	5605	STR					2'-7"
	5	37'-8"							
P901	104	4'-2"	1459	1	1'-6"	2'-11"			
P902	24	23'-4"	1904	STR					
P903	48	16'-6"	2685	3					
P1101	29	47'-10"	7370	2	3'-8"	41'-2"	3'-8"		
P1102	43	41'-5"	9443	STR					
PIERS TOTAL = 49,751 LBS.									
END DIAPHRAGMS									
S506	120	14'-2"	1773	2	5'-6"	3'-5"	5'-6"		
S507	60	7'-5"	464	2	2'-5"	2'-10"	2'-5"		
S801	22	41'-6"	2439	STR					
S802	24	8'-3"	529	STR					
S803	64	10'-7"	1808	6	1'-11"	2'-8"	6'-1"		
END DIAPHRAGMS TOTAL = 7,013 LBS.									

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	INCR.
SUPERSTRUCTURE									
S401	570	40'-0"	15231	STR					
S402	57	33'-6"	1276	STR					
S501	168	40'-0"	7009	STR					
S502	56	36'-5"	2127	STR					
S503	56	6'-5"	375	STR					
S504	56	10'-8"	623	STR					
S505	56	7'-0"	409	STR					
S601	735	17'-10"	19688	STR					
S602	735	27'-1"	29899	STR					
S603	1470	22'-6"	49495	STR					
S604	506	40'-0"	30401	STR					
S605	46	7'-0"	484	STR					
S606	135	40'-0"	8111	STR					
S607	45	36'-5"	2462	STR					
S608	45	6'-11"	468	STR					
S609	45	11'-2"	755	STR					
S610	45	7'-6"	507	STR					
SUPERSTRUCTURE TOTAL = 169,320 LBS.									
PIER DIAPHRAGMS									
S403	12	11'-4"	70	10	0'-5 1/2"	4'-0"			
S404	12	4'-10"	39	12	1'-11 1/2"	0'-6 1/4"	0'-8 1/2"	0'-8 1/2"	
S405	112	9'-7"	717	11	3'-6"	1'-11"	0'-6"		
S406	12	2'-8"	22	STR					
S611	128	10'-6"	2019	6	2'-10"	1'-0"	6'-9"		
S612	96	8'-3"	1190	STR					
PIER DIAPHRAGMS TOTAL = 4,057 LBS.									
PARAPETS									
R501	168	30'-0"	5257	STR					
R502	12	28'-3"	354	STR					
R503	828	7'-5"	6405	9	3'-2"	3'-0"			
R504	32	10'-0"	334	STR					
R505	12	5'-6"	69	5	1'-8"				
R506	20	5'-6"	115	STR					
R601	28	30'-0"	1262	STR					
R602	2	35'-6"	107	STR					
R603	828	2'-4"	2902	1	1'-1"	1'-5"			
R604	828	3'-5"	4249	7	1'-5"				
	8	4'-4"			3'-6"				
R605	S.O.	TO	623	1	TO	1'-0"			1"
	11	5'-1"			4'-3"				
R606	40	4'-4"	261	1	3'-6"	1'-0"			
PARAPETS TOTAL = 21,938 LBS.									
GRAND TOTAL = 260,060 LBS.									

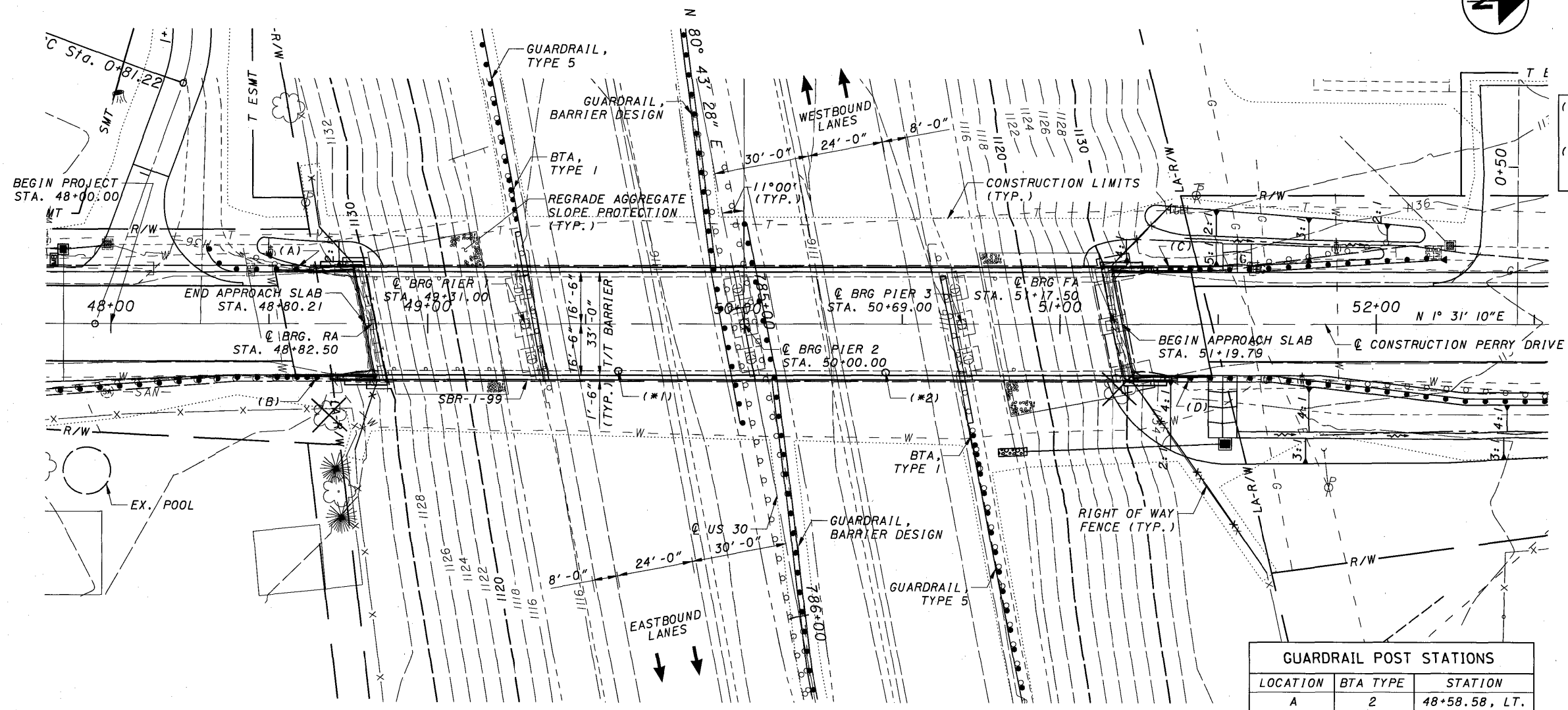
BENDING DIAGRAMS



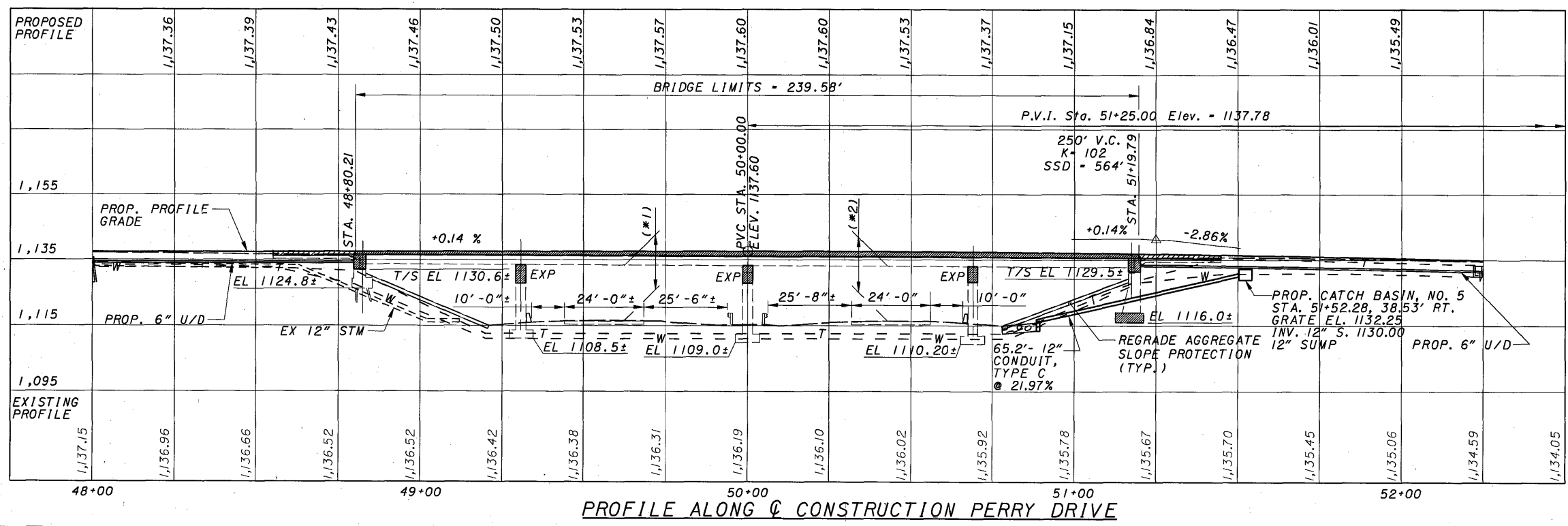
NOTES:

- THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, S501 IS A NO. 5 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
- "STR." IN THE TYPE COLUMN INDICATES STRAIGHT BARS.
- S.O. DENOTES "SERIES OF".
- REFER TO C.M.S. SECTION 509.05 FOR STANDARD BEND DIMENSIONS.
- ALL REINFORCING BARS SHALL BE EPOXY COATED. COATING WHICH HAS BEEN DAMAGED OR OTHERWISE DOES NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS. PAYMENT SHALL BE INCLUDED WITH ITEM 509 FOR PAYMENT.
- FOR LIST OF ABBREVIATIONS, SEE SHT. 2/22.

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 REVISED: JEP
 STRUCTURE FILE NUMBER: 7607365 LT.
 DRAWN: SRR
 REVISED: KCS
 DESIGNED: SRR
 CHECKED: KCS
 REINFORCING STEEL LIST
 BRIDGE NO. STA-30-0670 LEFT
 US 30 OVER TUSCARAWAS RIVER & R.J. CORMAN RAILROAD
 STA-30-(6.70)/(11.57)
 PID 23754
 22/22
 101A
 127



PLAN



PROFILE ALONG C CONSTRUCTION PERRY DRIVE

GUARDRAIL POST STATIONS		
LOCATION	BTA TYPE	STATION
A	2	48+58.58, LT.
B	1	48+65.10, RT.
C	1	51+34.90, LT.
D	2	51+41.31, RT.

- NOTES:**
- EARTHWORK LIMITS ARE APPROXIMATE, ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - FOR LIST OF ABBREVIATIONS, SEE SHT. 3718.

- (*1) - POINT OF MINIMUM VERTICAL CLEARANCE
STA. 49+60.32, 15'-0" RT.
CLEARANCE = 16'-6 1/4"
- (*2) - VERTICAL CLEARANCE
STA. 50+44.75, 15'-0" RT.
CLEARANCE = 16'-6 7/8"

VERTICAL CLEARANCES	(*1)	(*2)
MINIMUM EXISTING	15'-8 1/2"	15'-7 1/4"
MINIMUM PROPOSED	16'-6 1/4"	16'-6 7/8"
REQUIRED	16'-6"	16'-6"
TEMPORARY	15'-0"	15'-0"

BENCHMARK	
BMI: NO. 5 REBAR WITH RED CAP	STA. 44+47.25, 25.33' RT EL. 1136.78
BM2: NO. 5 REBAR WITH RED CAP	STA. 54+05.50, 16.87' RT EL. 1129.28

TRAFFIC DATA	
CURRENT ADT (2006)	= 8700
CURRENT ADTT (2006)	= 261
DESIGN ADT (2026)	= 11,100
DESIGN ADTT (2025)	= 333

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPAN: 48'-6"; 69'-0"; 69'-0"; 48'-6"
C/C BEARINGS

ROADWAY: 30'-0" F/F 2'-0" SAFETY CURBS
SKEW: 11°-00' R.F.

LOADING: CF-400 (57)

ALIGNMENT: TANGENT

WEARING SURFACE: ASPHALT CONCRETE

APPROACH SLABS: AS-1-67 (25' LONG)

DATE BUILT: 1973

STRUCTURE FILE NO.: 7607539

- PROPOSED WORK**
- REMOVE EXISTING DECK AND PORTION OF ABUTMENTS
 - CONVERT ABUTMENTS TO SEMI-INTEGRAL
 - RECONSTRUCT PIER CAPS AND ACHIEVE VERTICAL CLEARANCE OF 16'-6"
 - REPLACE BEARINGS WITH ELASTOMERIC BEARINGS
 - CONSTRUCT A NEW COMPOSITE DECK 33' WIDE T/T BARRIER
 - SEAL CONCRETE SURFACES
 - PAINT STRUCTURAL STEEL
 - CONSTRUCT FULL WIDTH APPROACH SLABS
 - COMPLETE ROADWORK ITEMS TO FINISH THE PROJECT

PROPOSED STRUCTURE

TYPE: CONTINUOUS STEEL BEAM WITH COMPOSITE REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPAN: 48'-6"; 69'-0"; 69'-0"; 48'-6"
C/C BEARINGS

ROADWAY: 33'-0" T/T BARRIER

SKEW: 11°-00'-00" R.F.

LOADING: HS20 (CASE 11) ALTERNATE MILITARY
LOADING AND FWS OF 60#/SF

ALIGNMENT: TANGENT

WEARING SURFACE: MONOLITHIC CONCRETE

APPROACH SLABS: AS-1-81 (25' LONG)

LONGITUDE: 81°26'49"

LATITUDE: 40°46'35"

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

DATE: 12/2005
 REVIEWED: JEP
 DRAWN: JEP
 CHECKED: KCS

STRUCTURE FILE NUMBER: 7607539

STARK COUNTY
 STA. 48+80.21
 STA. 51+19.79

SITE PLAN
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30

STA-30-(6.70)(11.57)
 PID 23754

1/18
 102
 127

GENERAL NOTES

REFERENCE SHALL BE MADE TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-81 REVISED 07-19-02
 GSD-1-96 REVISED 07-19-02
 SBR-1-99 REVISED 07-19-02
 SICD-1-96 REVISED 07-19-02

AND TO SUPPLEMENTAL SPECIFICATIONS:

843 DATED 04-18-2003
 885 DATED 11-04-2005

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, AND THE O.D.O.T. BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HS20-44, CASE 11 AND THE ALTERNATE MILITARY LOADING. FUTURE WEARING SURFACE (FWS) OF 60 PSF.

DESIGN STRESSES:

CONCRETE CLASS HP - COMPRESSIVE STRENGTH 4500 P.S.I. (SUPERSTRUCTURE)

CONCRETE CLASS C - COMPRESSIVE STRENGTH 4000 P.S.I. (SUPERSTRUCTURE)

REINFORCING STEEL - ASTM A515 OR A996
 GRADE 50 - MINIMUM YIELD STRENGTH 60,000 P.S.I.

MISCELLANEOUS STEEL - (LOAD RS, COVER RS, HP SECTIONS):
 GRADE 36 - MINIMUM YIELD STRENGTH 36,000 P.S.I.

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL
 2-1/2" CONCRETE COVER
 CLASS HP CONCRETE

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

UTILITY LINES:

THE UTILITY(IES) SHALL BORE ALL EXPENSE INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITY(IES) ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (T=15"), AS PER PLAN:

THE CONCRETE FOR THE APPROACH SLABS SHALL BE CLASS HP CONCRETE, MIX 4. THE PROPORTIONS FOR THE STARTING MIX DESIGN ARE DESCRIBED IN THE ITEM 511 - CLASS HP CONCRETE, BRIDGE DECK, AS PER PLAN.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05.

IF, DURING THE JACKING OPERATIONS, DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ITEM 516, SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN:

INSTALL A 3 FOOT WIDE NEOPRENE SHEET AT LOCATIONS SHOWN IN THE PLANS. SECURE THE NEOPRENE SHEETING TO THE CONCRETE WITH 1/4" X #10 GAGE (LENGTH X SHANK DIA.) GALVANIZED BUTTON HEAD SPIKE THROUGH A 1 INCH OUTSIDE DIAMETER, # 10 GAGE GALVANIZED WASHER, MAXIMUM FASTENER SPACING IS 9 INCHES. USE OF OTHER SIMILAR GALVANIZED DEVICES, WHICH WILL NOT DAMAGE EITHER THE NEOPRENE OR THE CONCRETE WILL BE USED SUBJECT TO APPROVAL OF THE ENGINEER.

CENTER THE NEOPRENE STRIPS ON ALL JOINTS. FOR HORIZONTAL JOINTS, SECURE THE HORIZONTAL NEOPRENE STRIP BY USING A SINGLE LINE OF FASTENERS, STARTING AT 6 INCHES (+/-) FROM THE NEOPRENE STRIP. FOR THE VERTICAL JOINTS SECURE THE VERTICAL NEOPRENE STRIP BY USING A SINGLE VERTICAL LINE OF FASTENERS, STARTING AT 6 INCHES (+/-) FROM THE VERTICAL EDGE OF THE NEOPRENE STRIP NEAREST TO THE CENTERLINE OF ROADWAY. FOR VERTICAL JOINTS, INSTALL 2 ADDITIONAL FASTENERS AT 6 INCHES CENTER TO CENTER, ACROSS THE TOP OF THE NEOPRENE STRIP ON THE SAME SIDE OF THE VERTICAL JOINT AS THE SINGLE VERTICAL ROW OF FASTENERS IS LOCATED.

THE VERTICAL NEOPRENE STRIPS SHALL COMPLETELY OVERLAP THE HORIZONTAL STRIPS. LAP LENGTHS OF THE HORIZONTAL STRIPS THAT ARE NOT VULCANIZED OR ADHESIVE BONDED. SHALL BE AT LEAST 1 FOOT IN LENGTH, OR 6 INCHES IN LENGTH IF THE LAP IS VULCANIZED OR ADHESIVE BONDED. NO LAPS ARE ACCEPTABLE IN VERTICALLY INSTALLED NEOPRENE STRIPS.

THE NEOPRENE SHEETING SHALL BE 3/32 INCH THICK GENERAL PURPOSE, HEAVY DUTY NEOPRENE SHEET WITH NYLON FABRIC REINFORCEMENT. THE SHEETING SHALL BE "FAIRPRENE NUMBER NN-0003", BY E.I. DUPONT DE NEMOURS AND COMPANY, INC., "WINGPRENE BY THE GOODYEAR TIRE AND RUBBER COMPANY, OR AN APPROVED ALTERNATE. THE NEOPRENE SHEETING SHALL CONFORM TO THE FOLLOWING:

DESCRIPTION OF TEST	ASTM METHOD	REQUIREMENT
THICKNESS, INCHES	D 751	0.094 +/- .01
BREAKING STRENGTH, GRAB, LBS, MINIMUM	D 751	700 X 700
ADHESIVE STRIP, 1" WIDE X 2" LONG, LBS, MINIMUM	D 751	9
BURST STRENGTH, PSI, MINIMUM	D 751	1400
HEAT AGING, 70 HOURS, T 212°F, 180 BEND WITHOUT CRACKING	D 2136	NO CRACKING OF COATING
LOW TEMPERATURE BRITTLINESS, 1 HOUR AT -40° F, BEND AROUND 1/4 INCH MANDREL	D 2136	NO CRACKING OF COATING

THE DEPARTMENT WILL MEASURE THE TOTAL LENGTH OF JOINT TO BE SEALED BY THE NUMBER OF FEET.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN.

ITEM 511, CLASS HP CONCRETE, FOR BRIDGE DECK, AS PER PLAN

ITEM 511, CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

GENERAL REQUIREMENTS. -THE PROVISIONS OF ITEM 511 SHALL APPLY EXCEPT AS NOTED BELOW. MIX OPTION. - ALL SUPERSTRUCTURE, BRIDGE DECK, SIDEWALK, AND PARAPET CONCRETE SHALL BE THIS MIX (HP4, AS PER PLAN)

THE FOLLOWING PROPORTIONS WILL BE USED AS A STARTING MIX DESIGN.

CONCRETE TABLE									
QUANTITIES PER CUBIC YARD									
AGGREGATES (SSD)									
HP4, AS PER PLAN (GGBF SLAG + MICROSILICA)									
AGGREGATE TYPE	FINE AGGRE (lb)	**8 COURSE AGGRE (lb)	**57 COARSE AGGRE. (lb)	TOTAL (lb)	CEMENT CONTENT (lb)	GGBF SLAG (lb)	MICRO-SILICA (lb)	WATER TO CEMENT RATIO +/- .01	AIR CONTENT +/- 2%
GRAVEL	1245	360	1315	2920	400	170	30	0.43	7
LIMESTONE	1245	360	1335	2940	400	170	30	0.43	7
SLAG	1245	315	1155	2715	400	170	30	0.43	7

* ALL COARSE AGGREGATE SHALL HAVE AN ABSORPTION OF 1.00% OR GREATER AS DEFINED PER ASTM C127

THE WEIGHTS SPECIFIED IN THE CONCRETE TABLE WERE CALCULATED FOR MATERIALS OF THE FOLLOWING BULK SPECIFIC GRAVITIES (SSD): NATURAL SAND AND GRAVEL 2.62, LIMESTONE SAND 2.68, LIMESTONE 2.65, SLAG 2.30, FLY ASH 2.65, GGBF SLAG 2.90, MICROSILICA SOLIDS 2.20, AND PORTLAND CEMENT 3.15. FOR AGGREGATES OF SPECIFIC GRAVITIES DIFFERING MORE THAN PLUS OR MINUS 0.02 FROM THESE, THE WEIGHTS IN THE TABLE WILL BE CORRECTED.

THE PARAPETS WILL BE CARRIED ONTO THE APPROACH SLABS AND TRANSITIONED ON THE APPROACH SLABS AS DETAILED IN THE PLANS. QUANTITIES OF THE CONCRETE SHALL BE INCLUDED FOR PAYMENT WITH ITEM 511 - CLASS HP CONCRETE, BRIDGE DECK (PARAPETS), AS PER PLAN. REINFORCING STEEL FOR THE TRANSITIONS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.

BASIS OF PAYMENT. PAYMENT FOR THE ABOVE COMPLETED QUANTITIES WILL BE MADE AT THE CONTRACT BID PRICE FOR:

ITEM	UNITS	DESCRIPTION
511	CUBIC YARDS	CLASS HP CONCRETE, FOR BRIDGE DECK, AS PER PLAN
511	CUBIC YARDS	CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN:

DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF CONCRETE DECKS INCLUDING SIDEWALKS, PARAPETS, RAILINGS, DECK JOINTS AND OTHER APPURTENANCES FROM STEEL SUPPORTING SYSTEMS (BEAMS, GIRDERS, CROSS FRAMES, ETC.). THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/ OR HOE RAM TYPE EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF THE FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (PRESTRESSED BOX BEAM, I-BEAM, STEEL BEAMS, STEEL GIRDER, ETC.) THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS [16 KILOGRAMS] BUT NOT EXCEED 90 POUNDS [41 KILOGRAMS] UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING TO THE PRIMARY STRUCTURAL MEMBERS. DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

EXISTING WELDED ATTACHMENTS: REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS; AND SUPPORTS FOR SCUPPERS AND BULB ANGLES WHICH ARE TO BE REMOVED) LOCATED IN THE DESIGNATED TENSION PORTIONS OF THE TOP FLANGES OF EXISTING STEEL MEMBERS AND GRIND THE FLANGE SURFACES SMOOTH. CAREFULLY GRIND PARALLEL TO THE FLANGES. MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN.

ASBESTOS SURVEY: AN ASBESTOS SURVEY WAS COMPLETED FOR DISTRICT 4 BY EMERALD ENVIRONMENTAL, INC. NO ASBESTOS WAS FOUND. A REPORT WILL BE PROVIDED TO THE CONTRACTOR BY THE DISTRICT AT THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL FILL OUT THE REMAINDER OF THE NOTIFICATION OF DEMOLITION AND RENOVATION FORM AND SUBMIT IT TO THE OHIO EPA DIVISION OF AIR POLLUTION CONTROL, 420 MARKET AVE., NORTH CANTON, OHIO 44702, ATTENTION DAN ALEMAN, ADMINISTRATOR, (P) 330-489-3395 AND (F) 330-489-3335. ALL COST ASSOCIATED WITH THIS FORM SHALL BE INCLUDED IN ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN:

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, AS PER PLAN:

15 SF OF MATERIAL HAS BEEN INCLUDED FOR PAYMENT WITH THESE PLANS. APPLICATION SHALL BE AS DIRECTED BY THE ENGINEER.

PAINTING OF STRUCTURAL STEEL:

STRUCTURAL STEEL SHALL BE PAINTED USING FEDERAL COLOR NO. 595B-20045.

REINFORCING BAR MINIMUM LAP LENGTHS:

REINFORCING BARS, UNLESS OTHERWISE SHOWN IN THESE PLANS, SHALL HAVE MINIMUM LAP LENGTHS AS FOLLOWS:
 #4 BARS - 1'-11" #5 BARS - 2'-5"
 #6 BARS - 2'-11" #8 BARS - 4'-11"

DESIGN AGENCY: BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614) 714-0270 FAX (614) 714-0322
 DATE: 12/2005
 REVISED: JEP
 DRAWN: SRR
 DESIGNED: SRR
 CHECKED: KCS
 STRUCTURE FILE NUMBER: 7607539
 GENERAL NOTES
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30
 STA-30-(6.70) (11.57)
 PID 23754
 2/18
 103
 127

GENERAL NOTES (CON'T)

ABBREVIATIONS:

APPR. - APPROACH
 APPROX. - APPROXIMATE
 BM - BENCHMARK
 BOT - BOTTOM
 BRG. - BEARINGS
 BTA - BRIDGE TERMINAL ASSEMBLY
 BTW. - BETWEEN
 C/C - CENTER TO CENTER
 CL - CENTERLINE
 CJ - CONSTRUCTION JOINT
 CMP - CORRUGATED METAL PIPE
 CONC. - CONCRETE
 CONST. - CONSTRUCTION
 CVN - CHARPY V-NOTCH
 DIA. - DIAMETER
 E.F. - EACH FACE
 EL - ELEVATION
 E/P - EDGE OF PAVEMENT
 E/S - EDGE OF SHOULDER
 EX. - EXISTING
 EXP - EXPANSION
 FA - FORWARD ABUTMENT
 F.F. - FAR FACE
 F/F - FACE TO FACE
 G/R - GUARDRAIL
 JT. - JOINT
 LT. - LEFT
 MIN. - MINIMUM
 N.F. - NEAR FACE
 NPCPP - NON-PERFORATED CORRUGATED PLASTIC PIPE
 O/O - OUT TO OUT
 PCPP - PERFORATED CORRUGATED PLASTIC PIPE
 PEJF - PREFORMED EXPANSION JOINT FILLER
 PG - PROFILE GRADE
 P - PLATE
 PROP. - PROPOSED
 RA - REAR ABUTMENT
 RCP - ROCK CHANNEL PROTECTION
 REIN. - REINFORCED
 RT. - RIGHT
 R/W - RIGHT OF WAY
 SER. - SERIES
 SHT. - SHEET
 SPA. - SPACING
 STA - STATION
 TBR - TO BE REMOVED
 TH. - THICKNESS
 T/CURB - TOP OF CURB
 T/S - TOP OF SLOPE
 T/T - TOE TO TOE
 TYP. - TYPICAL

COMPUTED BY : TCM DATE : 12/2005
 CHECKED BY : KCS DATE : 12/2005

ESTIMATED QUANTITIES

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTS.	PIER	SUPER	GEN	AS PER PLAN SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2/18
202	22900	202	SQ YD	APPROACH SLAB REMOVED				202	
503	11100	LUMP		COFFERDAMS, CRIBS AND SHEETING				LUMP	
503	21100	181	CU YD	UNCLASSIFIED EXCAVATION	181				
509	10000	97385	POUND	EPOXY COATED REINFORCING STEEL	12726	11117	73542		
510	10000	200	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	200				
511	42500	66	CU YD	CLASS C CONCRETE, PIER CAP		66			
511	46200	39	CU YD	CLASS C CONCRETE	39				
511	50001	284	CU YD	CLASS HP CONCRETE, BRIDGE DECK, AS PER PLAN			284		2/18
511	50101	84	CU YD	CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN			76	8	2/18
511	52000	LUMP		CLASS HP CONCRETE, TEST SLAB			LUMP		
512	10100	1005	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	116	312	577		
513	20000	2070	EACH	WELDED STUD SHEAR CONNECTORS			2070		
513	95020	LUMP		STRUCTURAL STEEL, MISC.: (FIELD DRILLING BEAM HOLES)			LUMP		11/18 15/18
513	95030	60	EACH	STRUCTURAL STEEL, MISC.: (RETROFIT FOR COVERPLATE ENDS)			60		11/18
516	13900	175	SQ FT	2" PREFORMED EXPANSION JOINT FILLER				175	
516	14021	80	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL, AS PER PLAN			80		2/18
516	44200	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-1" X 1'-1" X 3/8") (NEOPRENE) AND LOAD PLATE (1'-2" X 1'-2" X 1/2")	10				
516	44200	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-3" X 1'-4" X 3/8") (NEOPRENE) AND LOAD PLATE (1'-4" X 1'-5" X 1/2")		10			
516	44200	5	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES (1'-4" X 1'-4" X 3/8") (NEOPRENE) AND LOAD PLATE (1'-5" X 1'-5" X 1/2")		5			
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LUMP	2/18
518	21200	66	CU YD	POROUS BACKFILL WITH FILTER FABRIC	66				
518	40000	62	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	62				
518	40010	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	40				
519	11101	6	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN		6			2/18
526	25001	200	SQ YD	REINFORCED CONCRETE APPROACH SLAB (T=15"), AS PER PLAN				200	2/18
601	21100	339	SQ YD	SLOPE PROTECTION, MISC.: REGRADE AGGREGATE SLOPE PROTECTION	339				
843	50001	15	SQ FT	PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR, AS PER PLAN	8	7			2/18
885	00050	14086	SQ FT	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, WITH WARRANTY			14086		
885	00056	14086	SQ FT	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, WITH WARRANTY			14086		
885	00060	14086	SQ FT	FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT, WITH WARRANTY			14086		
885	00066	14086	SQ FT	FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT, WITH WARRANTY			14086		
885	00504	20	MAN HR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			20		
885	10000	13	EACH	FINAL INSPECTION REPAIR			13		

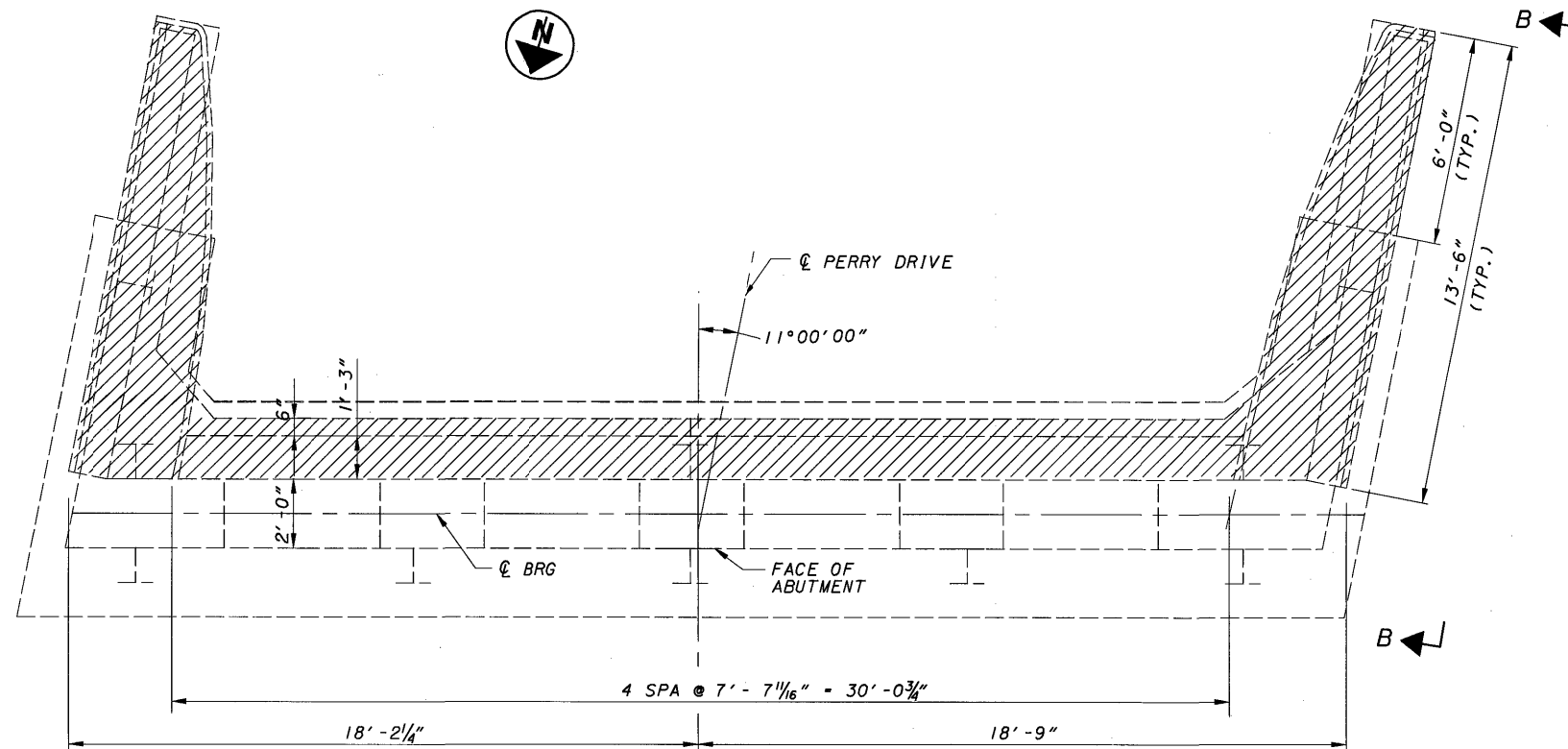
DESIGN AGENCY
BARR & PREYOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

DATE
 12/2005
 REVISED
 JEP
 STRUCTURE FILE NUMBER
 7607539
 DRAWN
 SRR
 REVISION
 DESIGNED
 TCM
 CHECKED
 KCS

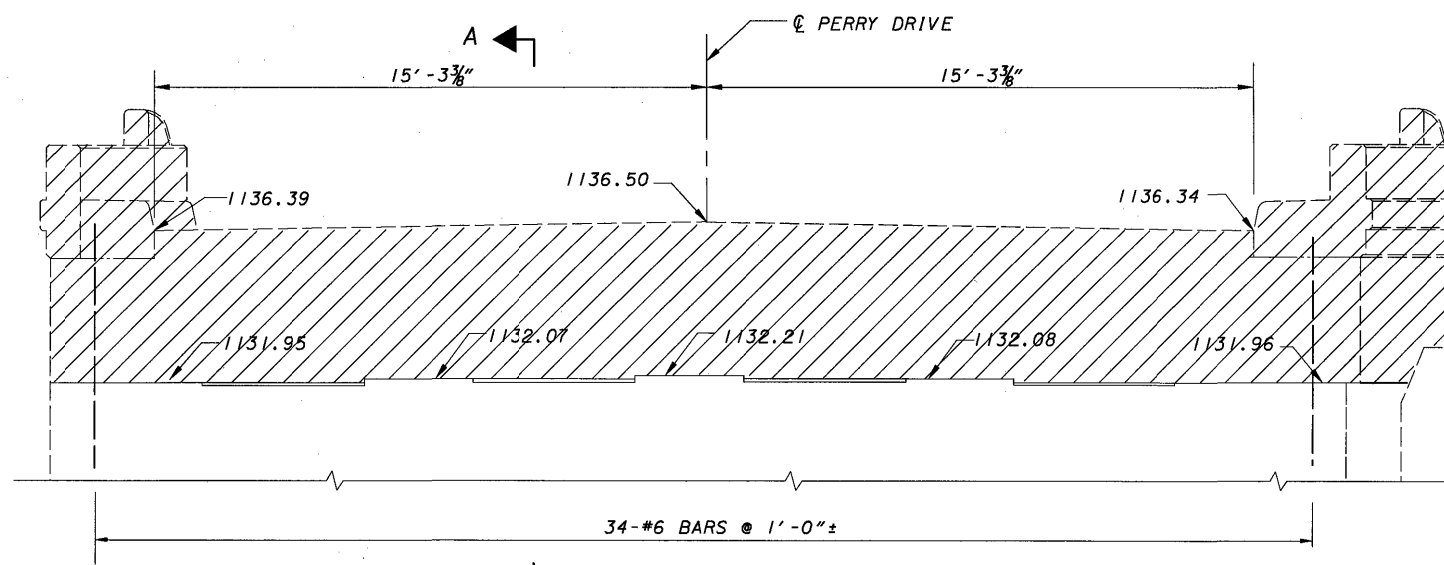
GENERAL NOTES & ESTIMATED QUANTITIES
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30

STA-30-(6.70)/(11.57)
PID 23754

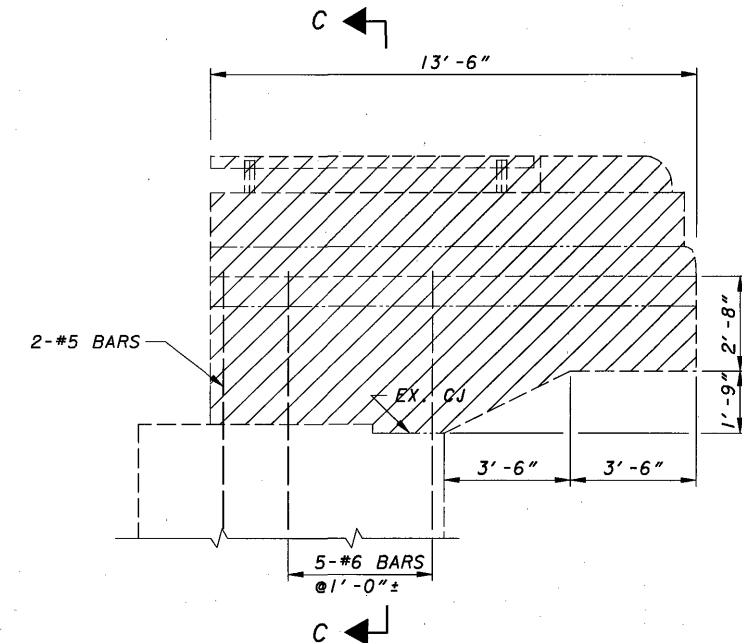
3/18
 104
 127



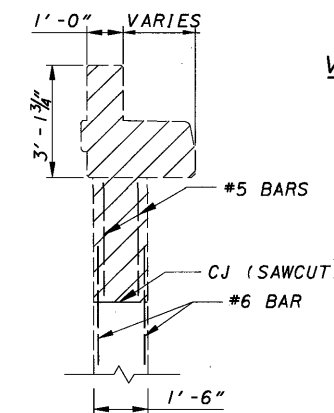
PLAN
(REAR ABUTMENT)



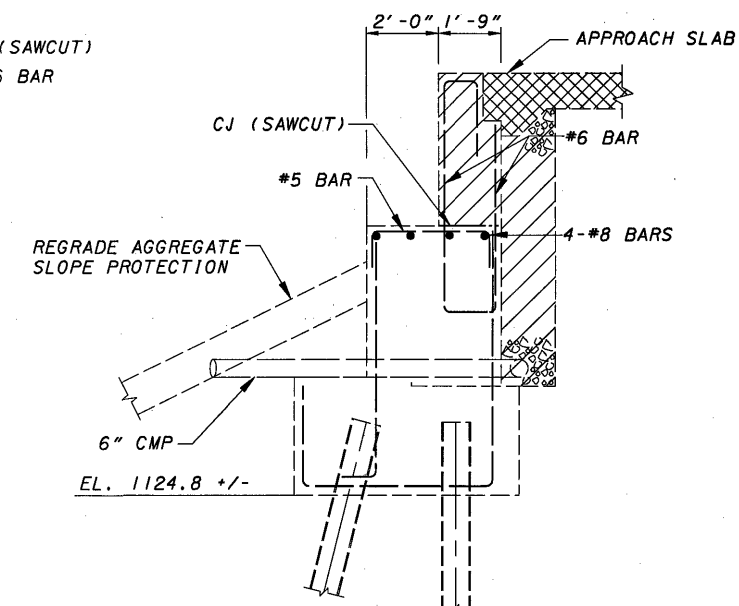
ELEVATION
(REAR ABUTMENT)



VIEW B-B



SECTION C-C



SECTION A-A

LEGEND:

- ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN
- ITEM 202 - APPROACH SLAB TO BE REMOVED

NOTES:

1. ALL EXISTING DIMENSIONS ARE ±.
2. CONTRACTOR SHALL SAW CUT ABUTMENTS TO REMOVE CONCRETE AND REINFORCING STEEL TO ELEVATIONS INDICATED IN PLANS.
3. FOR LIST OF ABBREVIATIONS, SEE SHT. 3/18.

DESIGN AGENCY: **BARR & PREVOST**
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

DATE: 12/2005
 REVIEWED: MLM
 STRUCTURE FILE NUMBER: 7607539

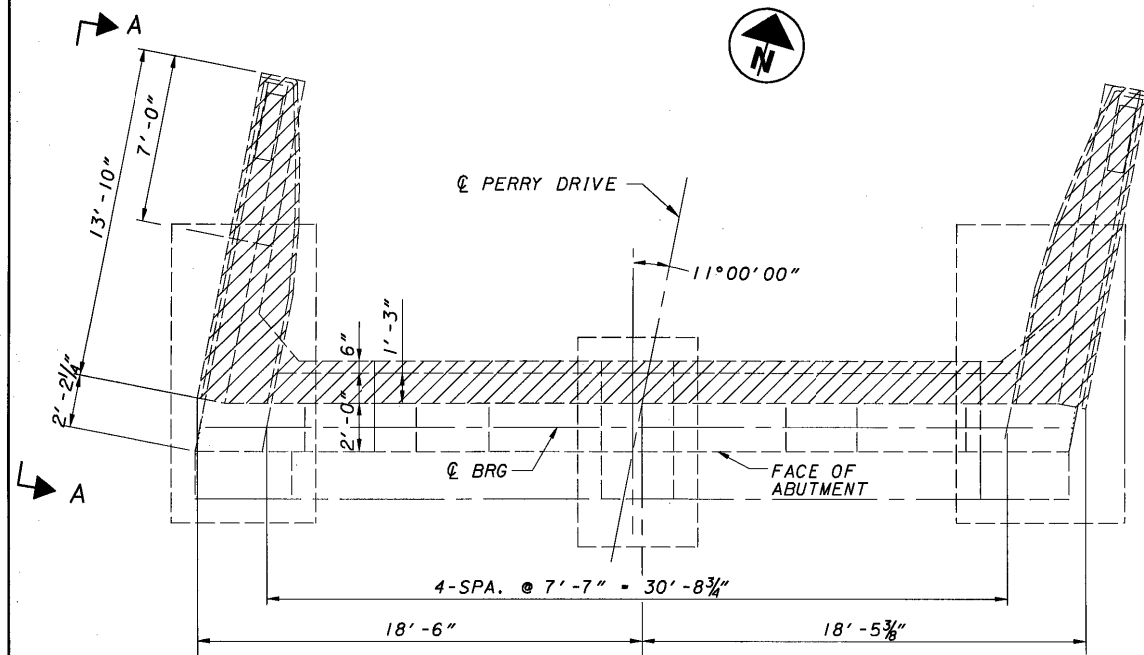
DRAWN: SRR
 REVISIONS:

DESIGNED: JEP
 CHECKED: KCS

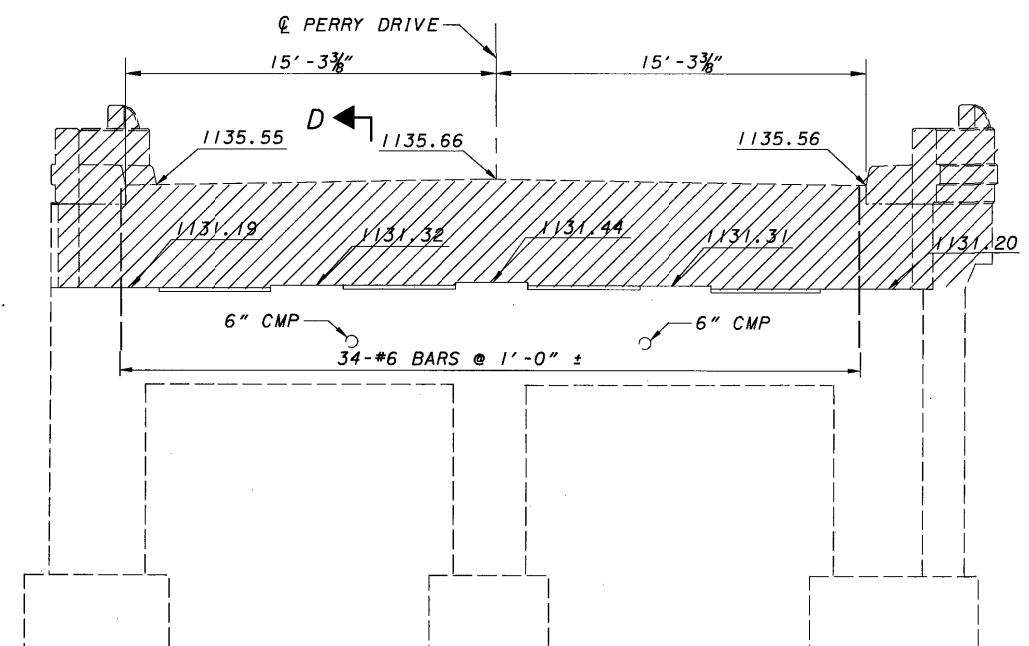
REMOVAL DETAILS
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30

STA-30-(6.70) (11.57)
PID 23754

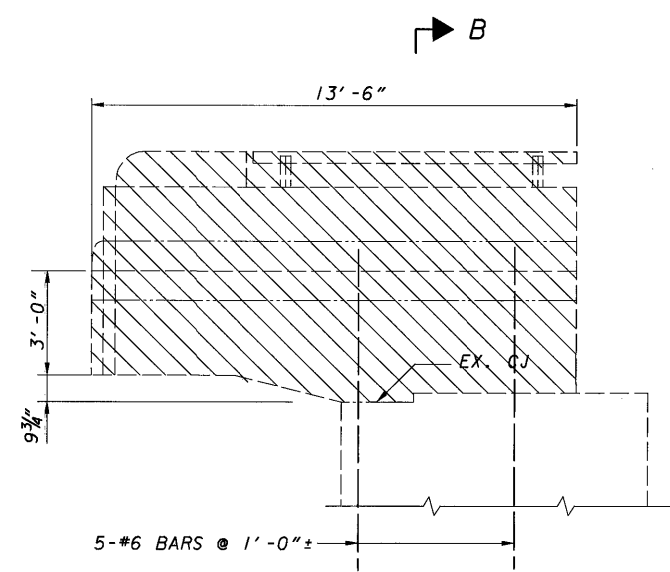
4/18
 105
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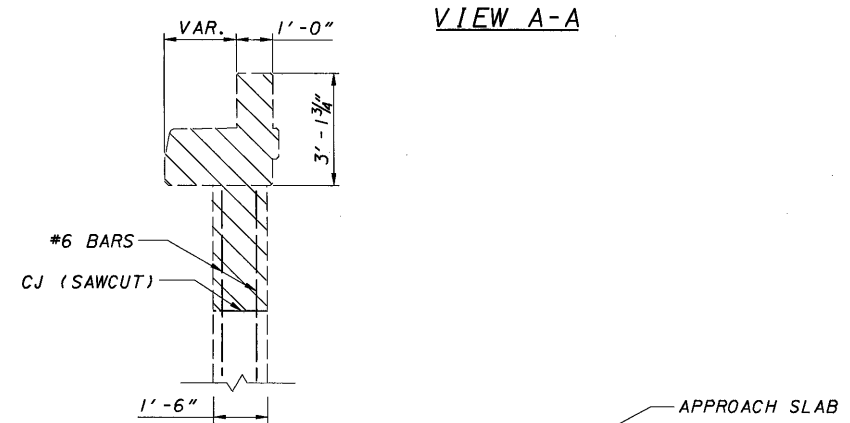
PLAN
(FORWARD ABUTMENT)



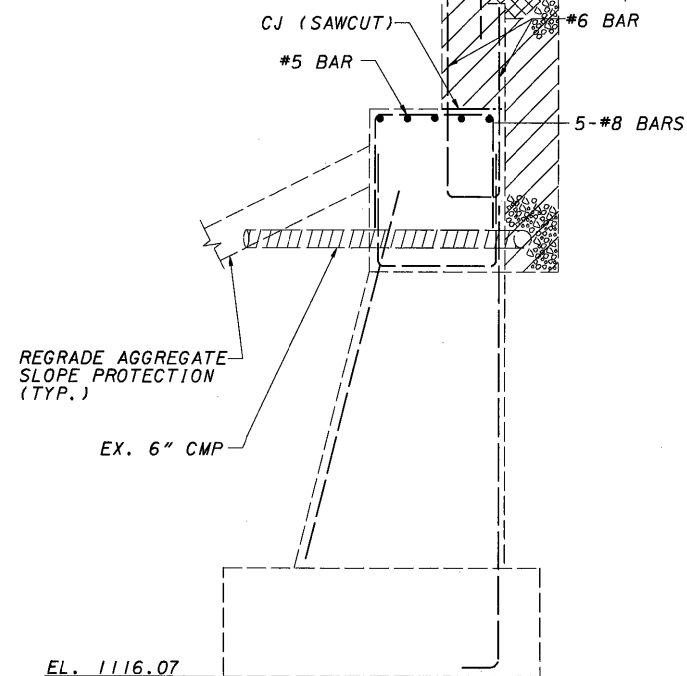
ELEVATION
(FORWARD ABUTMENT)



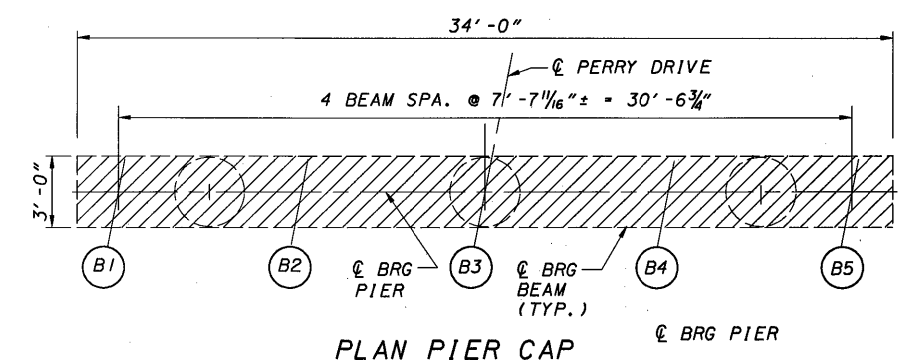
VIEW A-A



SECTION B-B

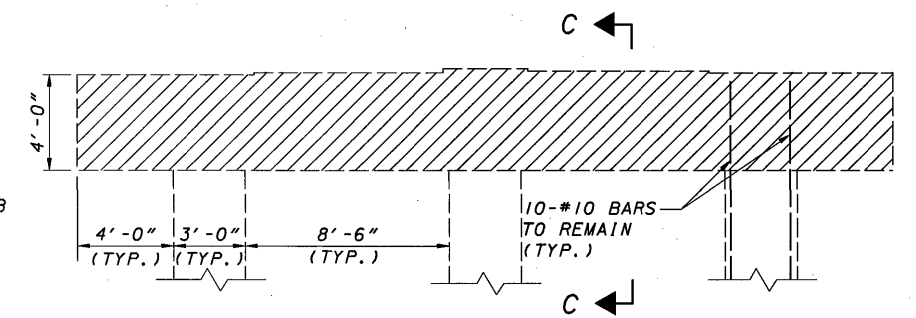


SECTION D-D

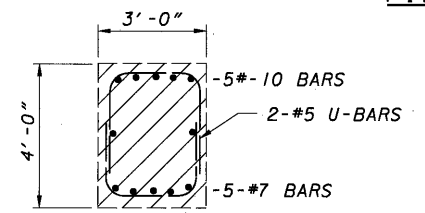


PLAN PIER CAP

BEAM SEAT ELEVATIONS			
BEAM NO.	PIER 1	PIER 2	PIER 3
B1	1131.42	1131.03	1130.94
B2	1131.49	1131.18	1131.05
B3	1131.57	1131.29	1131.18
B4	1131.48	1131.20	1131.08
B5	1131.34	1131.08	1130.93



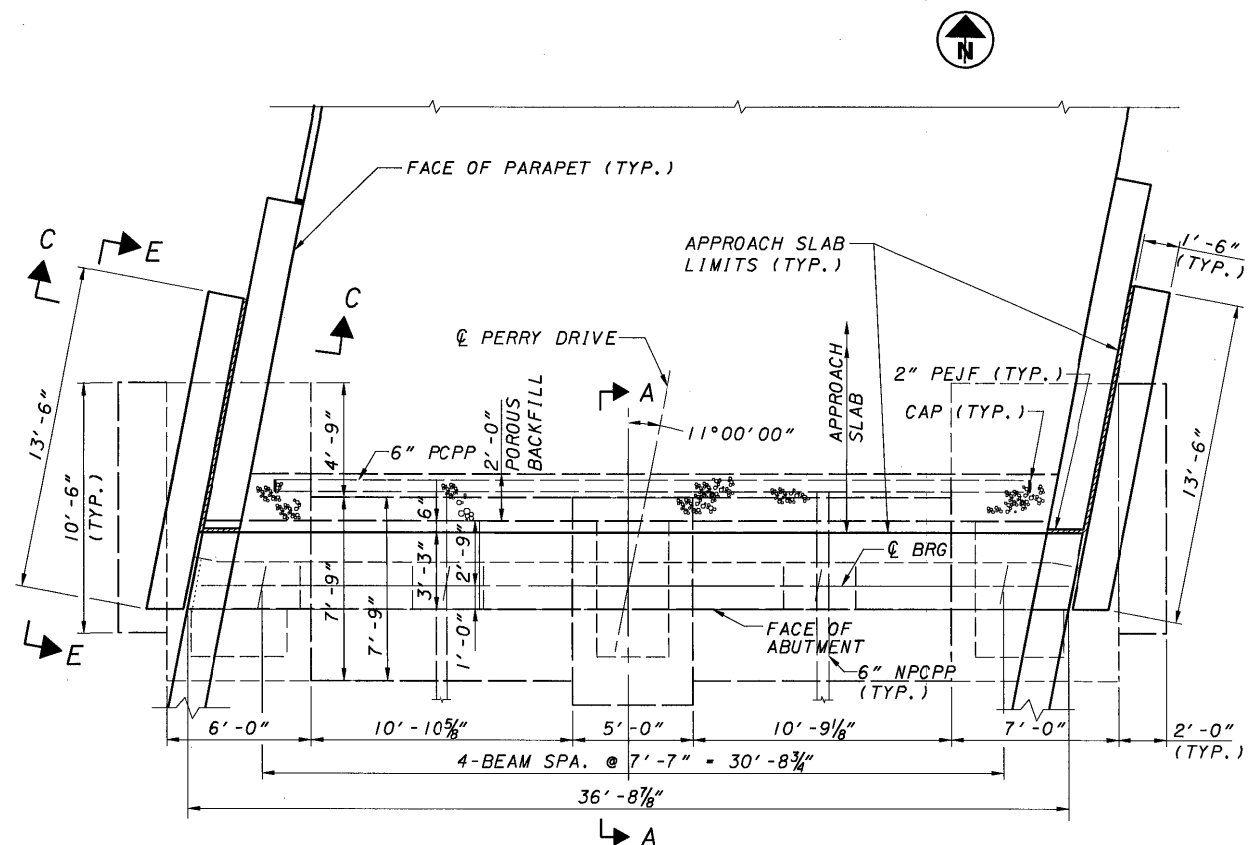
PIER ELEVATION



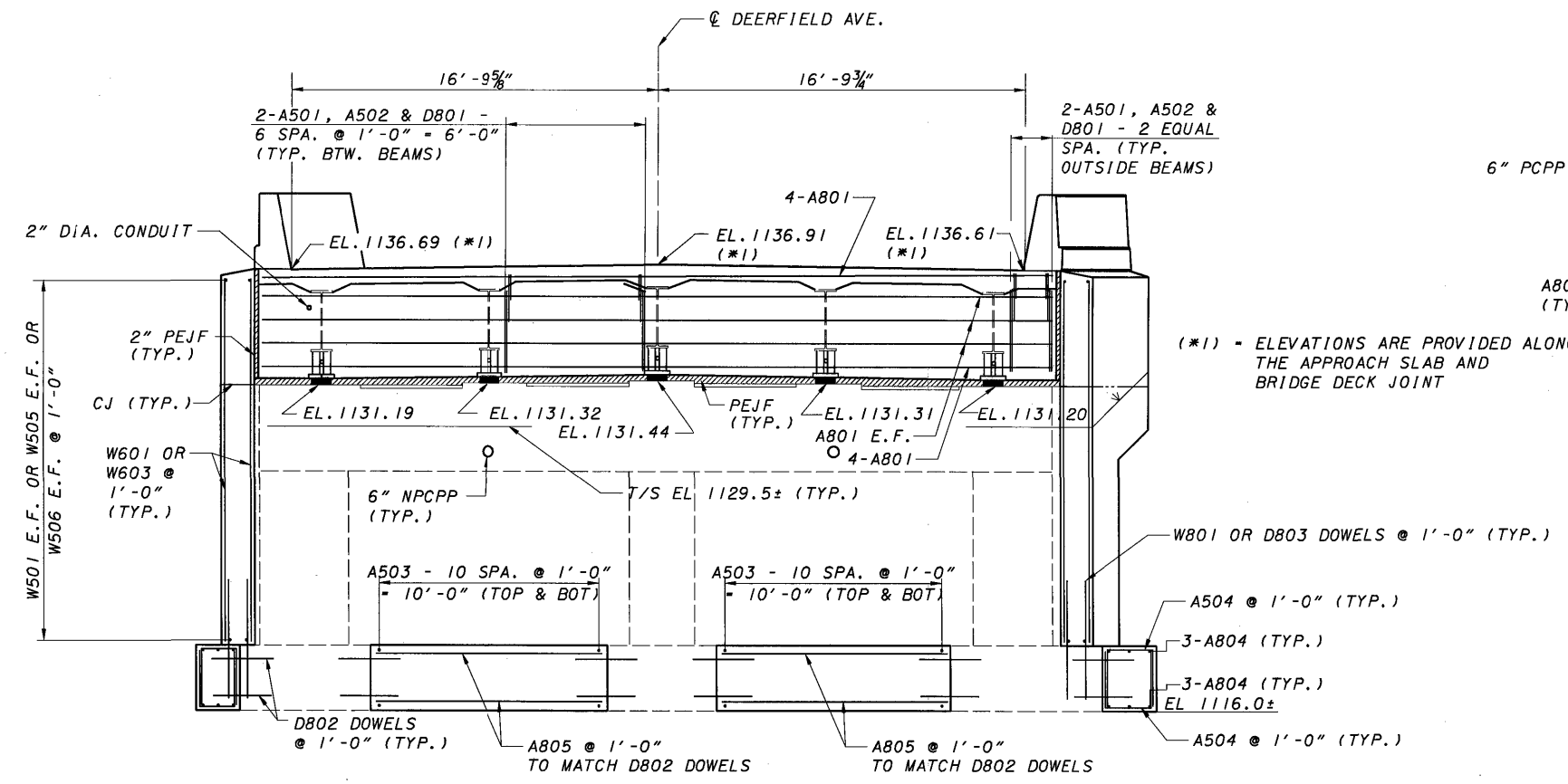
SECTION C-C

LEGEND:
 ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20' SPAN, AS PER PLAN
 ITEM 202 - APPROACH SLAB TO BE REMOVED

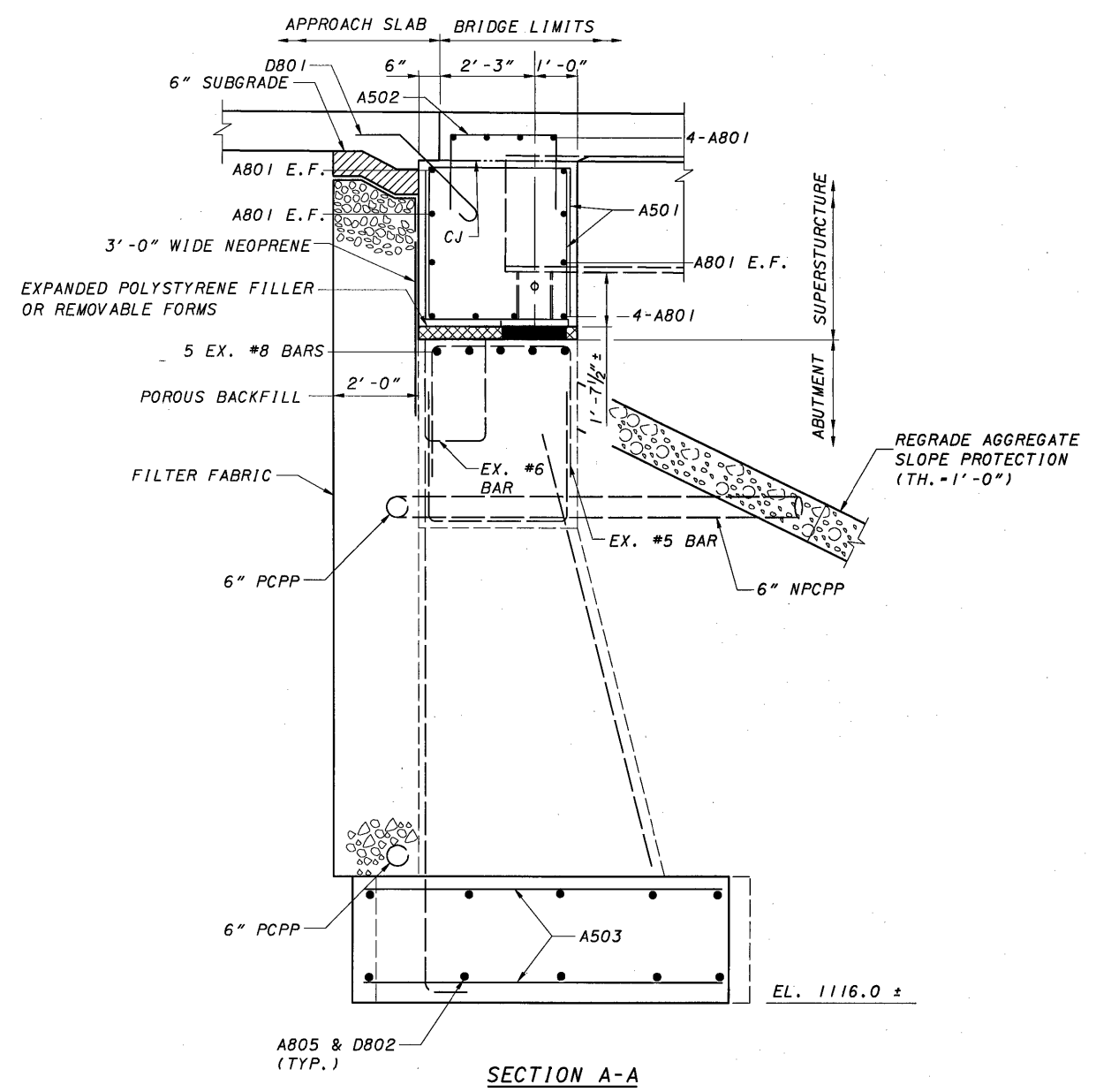
NOTES:
 1. ALL EXISTING DIMENSIONS ARE ±.
 2. BEAM SEAT ELEVATIONS FROM FIELD SURVEY.
 3. CONTRACTOR SHALL SAW CUT ABUTMENTS TO REMOVE CONCRETE AND REINFORCING STEEL TO ELEVATIONS INDICATED IN PLANS. CONTRACTOR SHALL REMOVE PIER CONCRETE TO ELEVATIONS INDICATED IN PLANS. HOWEVER, PIER REINFORCING STEEL SHALL BE SALVAGED ACCORDING TO PLANS.
 4. FOR LIST OF ABBREVIATIONS, SEE SHT. 3/18.



PLAN FORWARD ABUTMENT



ELEVATION



SECTION A-A

(*1) - ELEVATIONS ARE PROVIDED ALONG THE APPROACH SLAB AND BRIDGE DECK JOINT

- NOTES:**
1. ALL EXISTING DIMENSIONS ARE ±.
 2. FOR SECTION C-C & VIEW E-E, SEE SHT. 9718.
 3. FOR LIST OF ABBREVIATIONS, SEE SHT. 3718.
 4. SEALING OF BEAM SEATS: IF THE BEAMS SEATS ARE SEALED WITH AN EPOXY OR NON-EPOXY SEALER PRIOR TO SETTING THE BEARINGS, DO NOT APPLY SEALER TO THE CONCRETE SURFACES UNDER THE PROPOSED BEARING LOCATIONS. IF THESE LOCATIONS ARE SEALED, REMOVE THE SEALER TO THE SATISFACTION OF THE ENGINEER PRIOR TO SETTING THE BEARINGS. THE DEPARTMENT WILL NOT PAY FOR THIS REMOVAL.
 5. ABUTMENT DIAPHRAGM CONCRETE, STEEL SUPERSTRUCTURE: PLACE THE CONCRETE ENCASEING THE STRUCTURAL STEEL MEMBERS WITH THE DECK CONCRETE OR AT LEAST 48 HOURS BEFORE PLACEMENT OF THE DECK CONCRETE.
 6. FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2718.
 7. EMBEDMENT LENGTH FOR DOWELS IS 1'-6" UNLESS NOTED OTHERWISE.

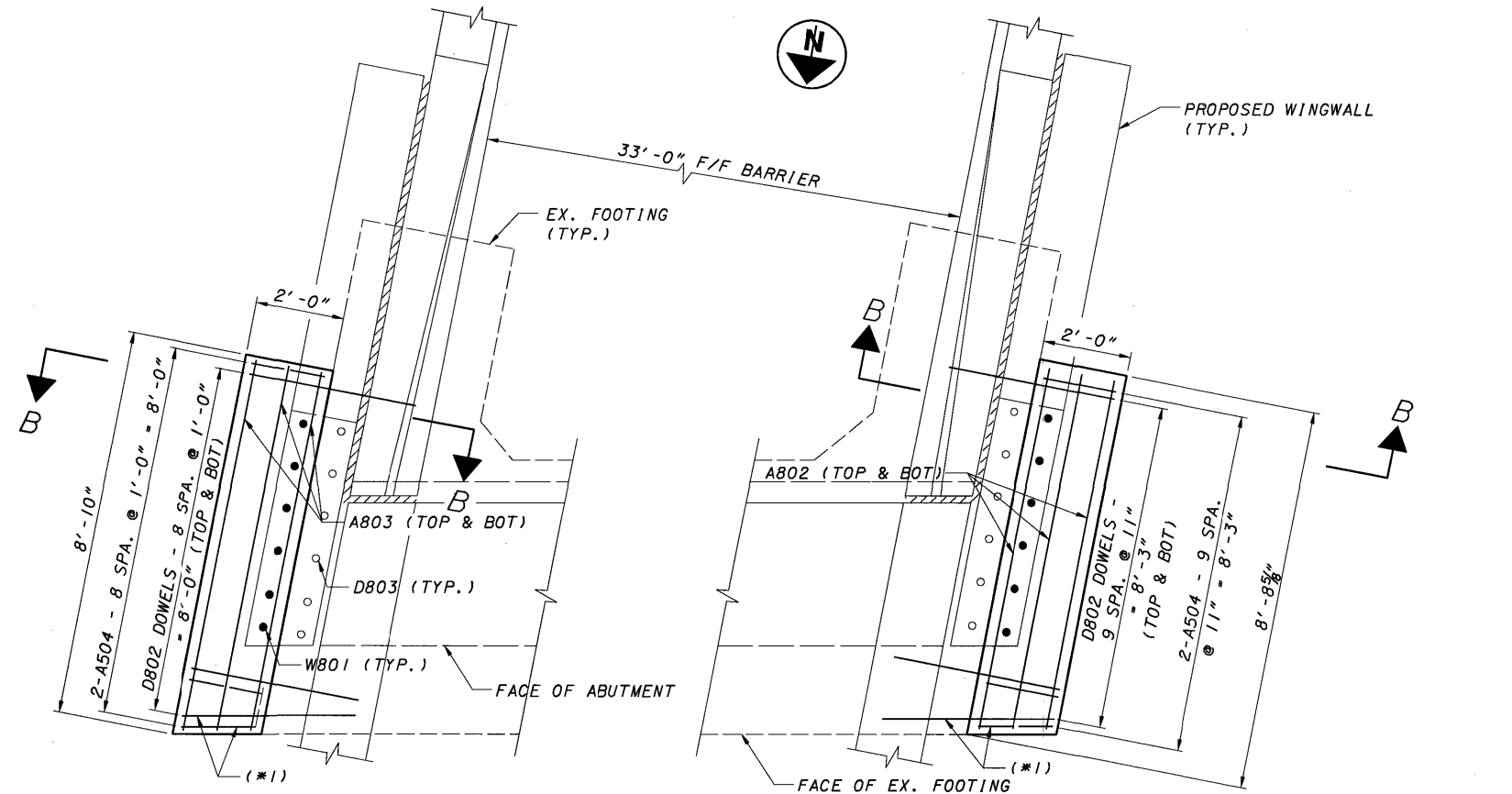
DESIGNED	SRR	CHECKED	KCS
DRAWN	SRR	REVISED	
REVIEWED	JEP	STRUCTURE FILE NUMBER	7607539
DATE	12/2005		
DESIGN AGENCY	BARR & PREVOST 2800 CORPORATE EXCHANGE DR., STE. 240 COLUMBUS, OH 43231 (614)-714-0270 FAX (614)-714-0322		

FORWARD ABUTMENT DETAILS
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30

STA-30-(6.70) (11.57)
PID 23754

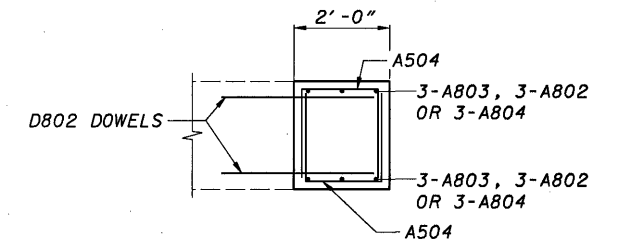
7/18

108
127

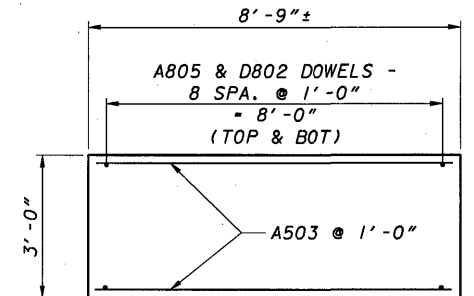


FOOTING PLAN
(REAR ABUTMENT)

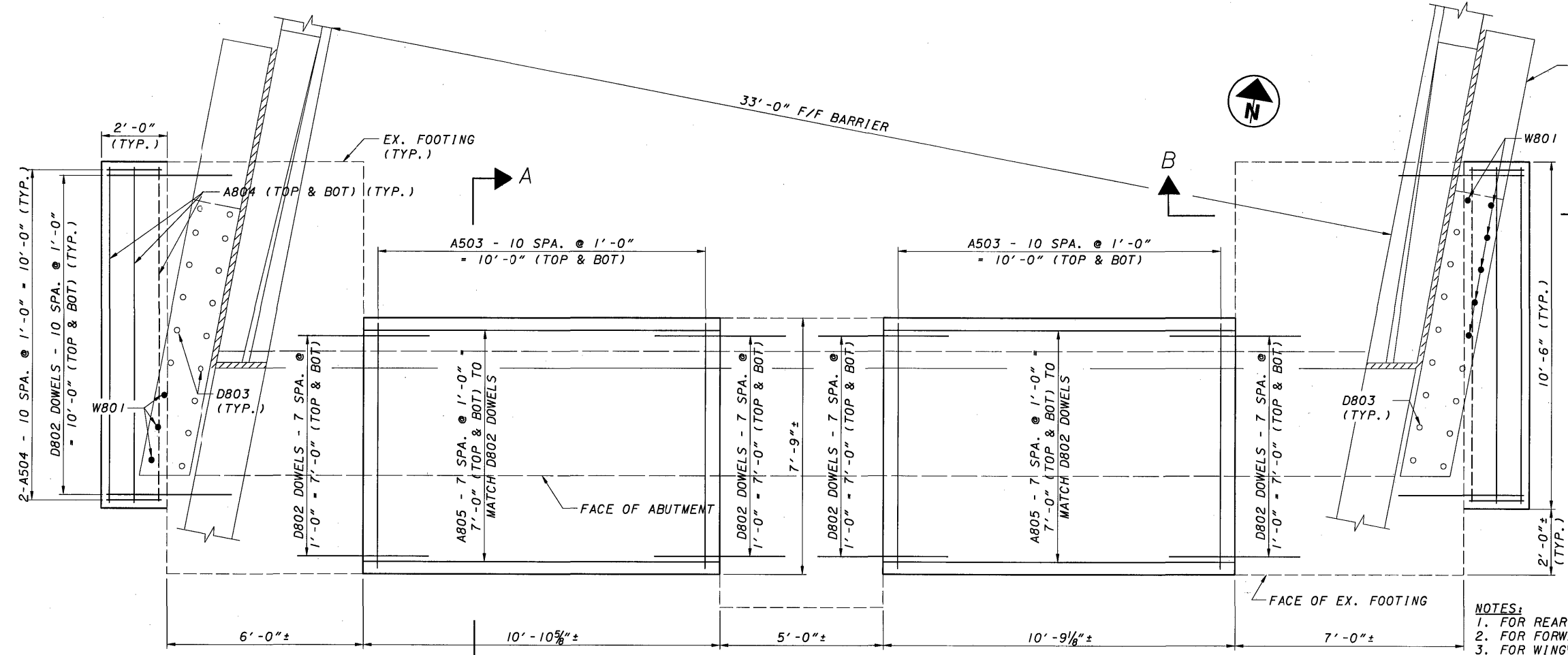
(*1) - SKEW END BARS PARALLEL TO THE FACE OF THE FOOTING
(MAINTAIN 3" CLR. REQUIREMENT)



SECTION B-B



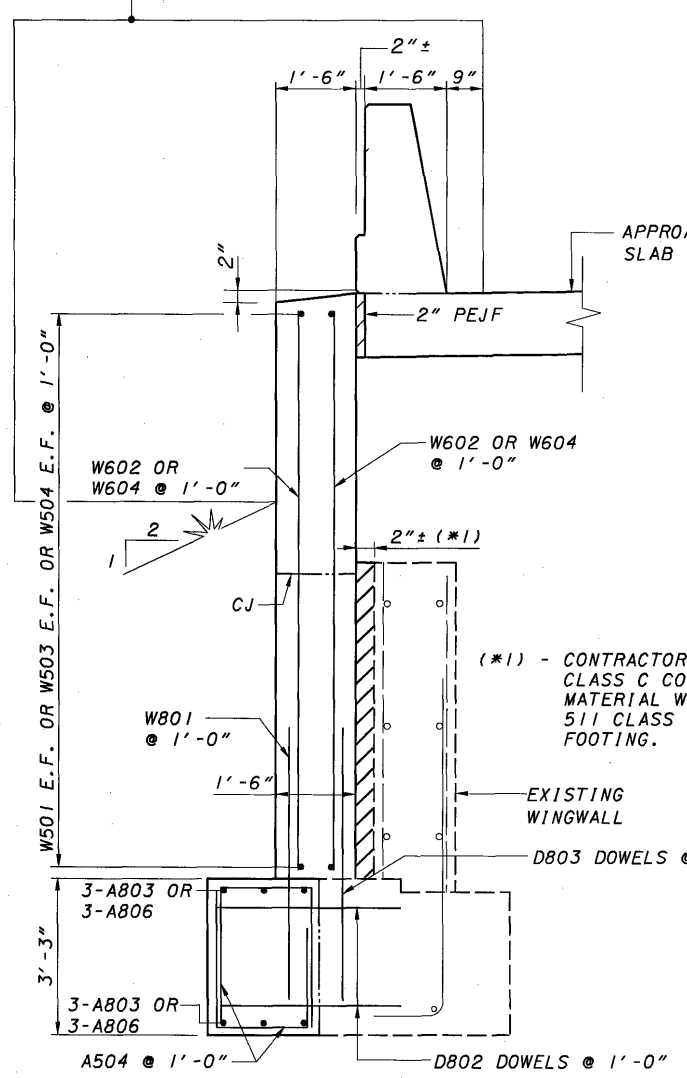
SECTION A-A



FOOTING PLAN
(FORWARD ABUTMENT)

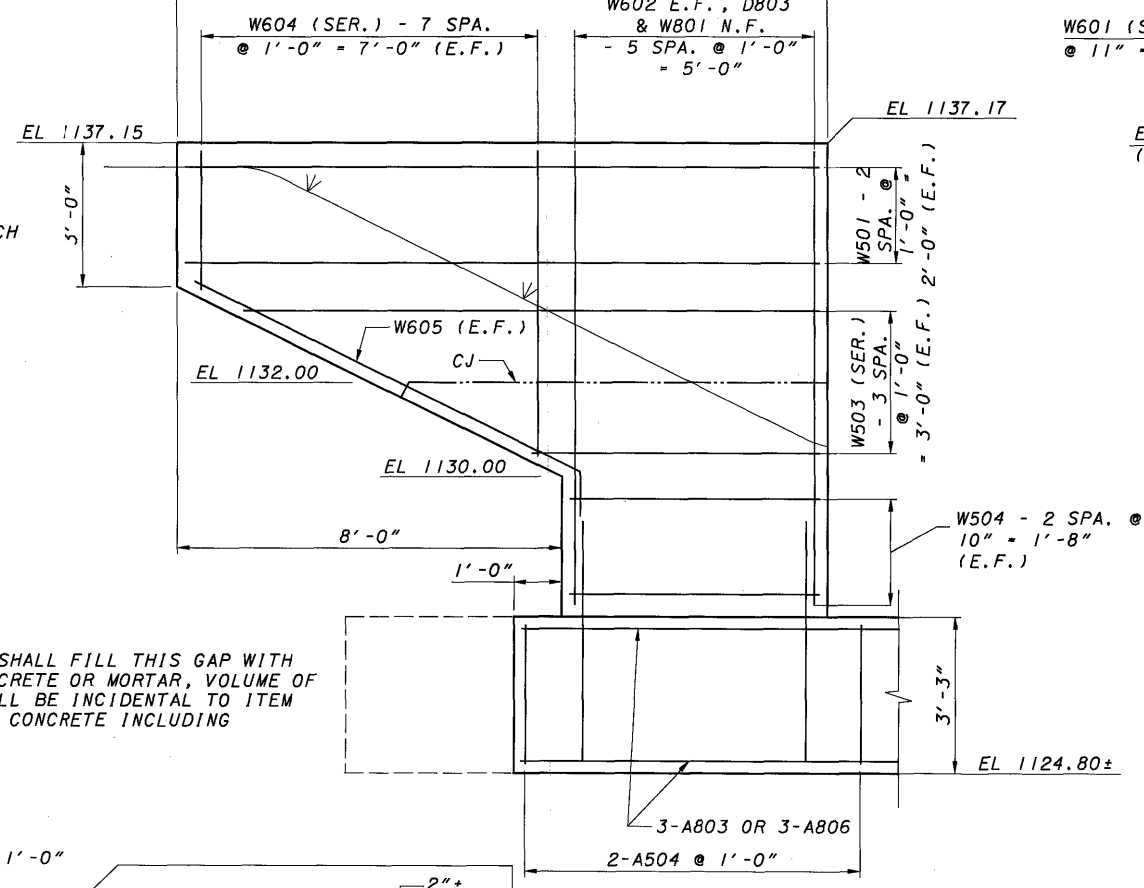
- NOTES:**
1. FOR REAR ABUTMENT DETAILS, SEE SHT. 6718
 2. FOR FORWARD ABUTMENT DETAILS, SEE SHT. 7718
 3. FOR WINGWALL DETAILS, SEE SHT. 9718
 4. FOR LIST OF ABBREVIATIONS, SEE SHT. 3718
 5. FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2718
 6. DOWEL EMBEDMENT LENGTH IS 1'-6" UNLESS NOTED OTHERWISE

LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)

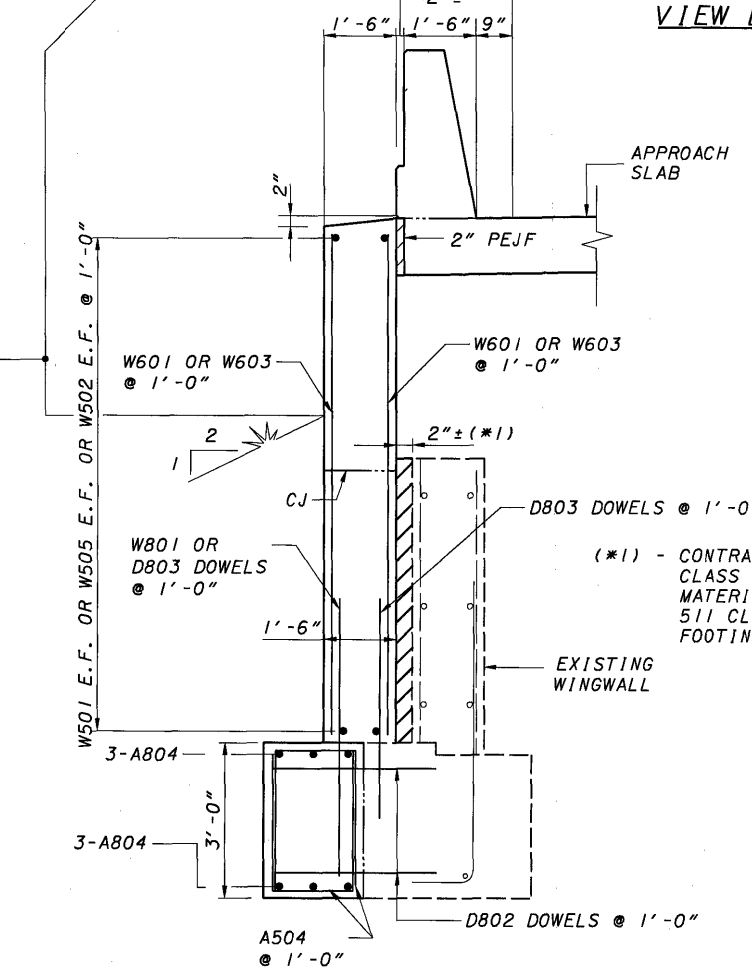


SECTION B-B

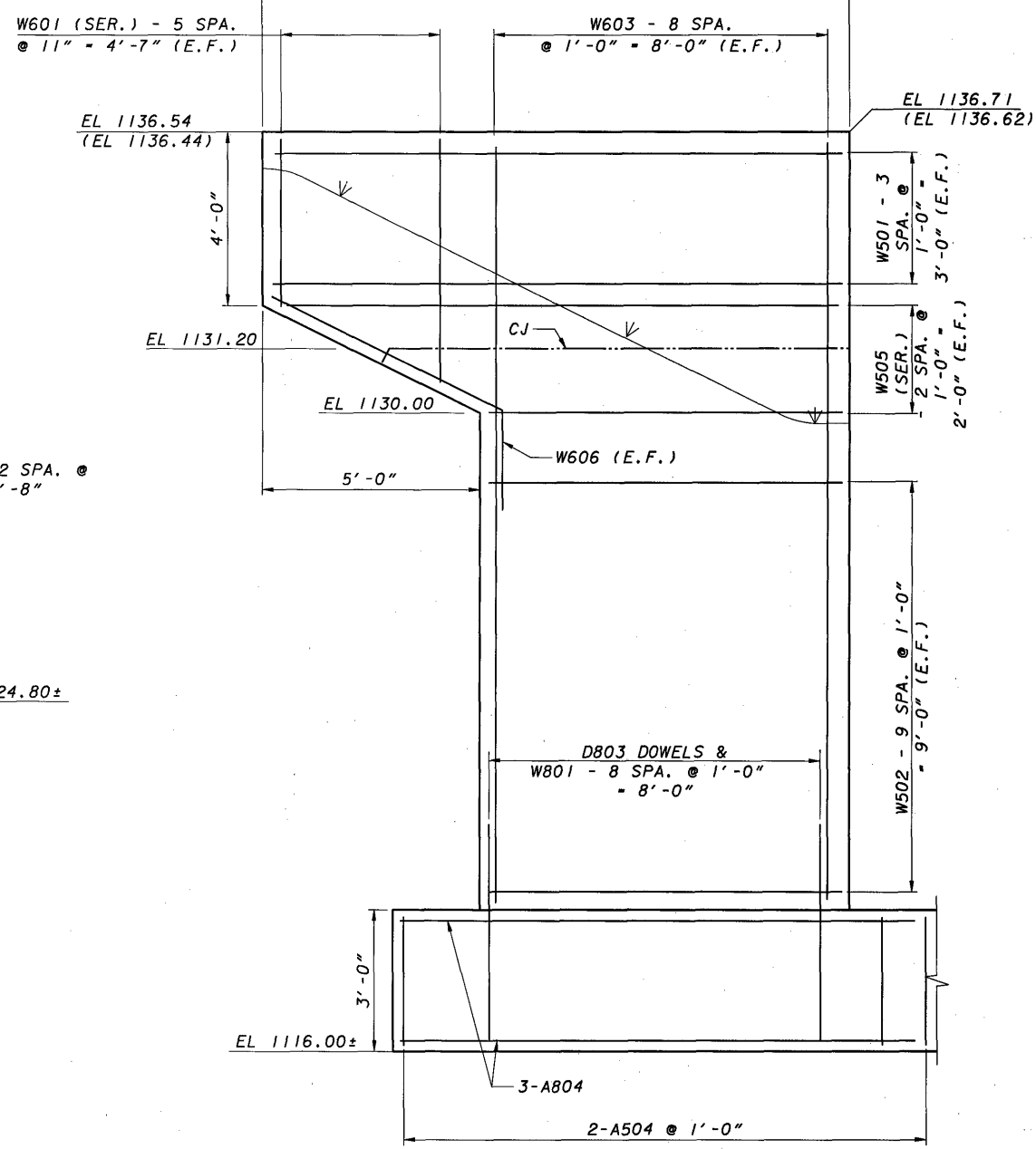
LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)



VIEW D-D



SECTION C-C

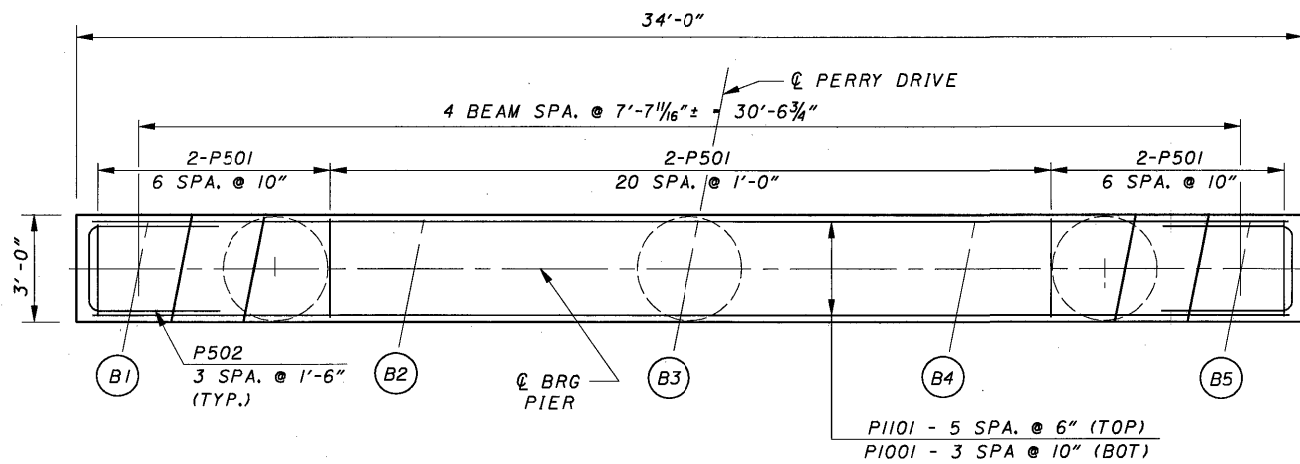


VIEW E-E

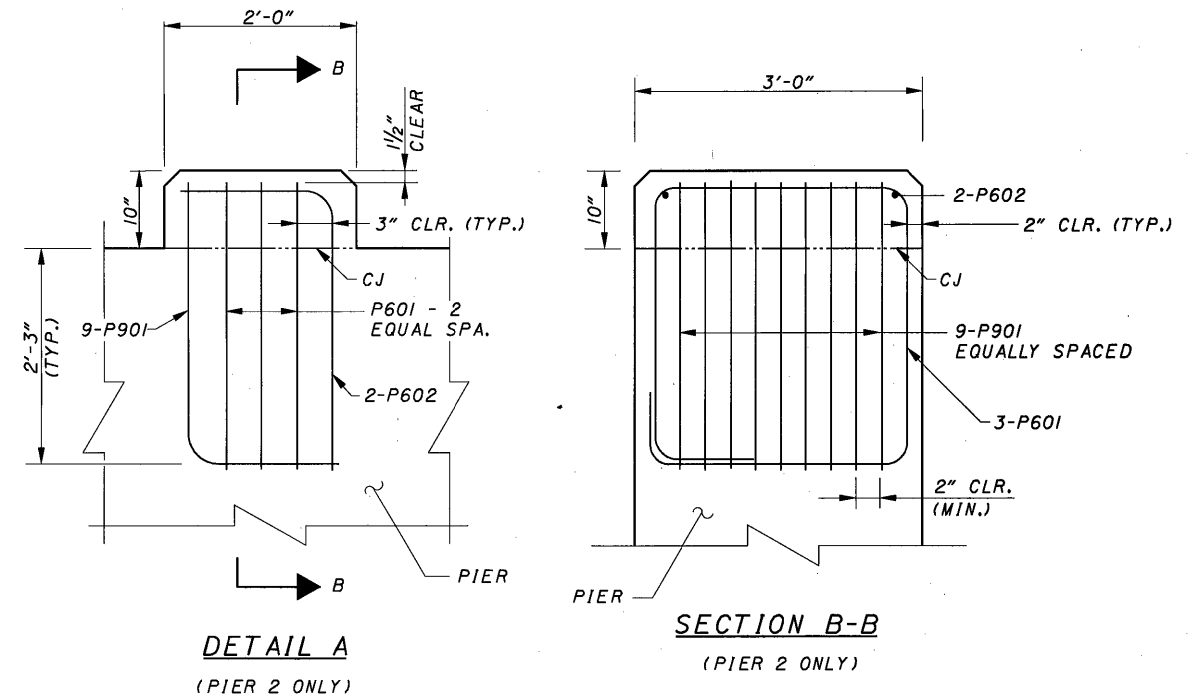
- NOTES:
1. FOR LOCATION OF SECTION B-B & VIEW D-D, SEE SHT. 6718.
 2. FOR LOCATION OF SECTION C-C & VIEW E-E, SEE SHT. 7718.
 3. FOR LIST OF ABBREVIATIONS, SEE SHT. 3718.
 4. FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2718.
 5. EMBEDMENT LENGTH FOR DOWELS SHALL BE 1'-6", UNLESS NOTED OTHERWISE.
 6. ALL EXPOSED SURFACES OF CONCRETE WINGWALLS SHALL BE SEALED WITH AN EPOXY-URETHANE SEALANT.
 7. ELEVATIONS IN PARENTHESIS ARE FOR THE RIGHT WINGWALL.

DESIGN AGENCY BARR & PREVOST 2800 CORPORATE EXCHANGE DR., STE. 240 COLUMBUS, OH 43231 (614)-714-0270 FAX (614)-714-0322
DATE 12/2005
REVIEWED JEP
DESIGNED SRR
DRWN SRR
CHECKED ACS
STRUCTURE FILE NUMBER 7607539
ABUTMENT DETAILS BRIDGE NO. STA-30-1157 PERRY DRIVE OVER US 30
STA-30-(6.70) (11.57) PID 23754
9/18
110 127

ELEVATIONS			
LOCATION	PIER 1	PIER 2	PIER 3
B1	1132.98	1132.74	1132.50
B2	1133.04	1132.88	1132.60
B3	1133.11	1132.98	1132.72
B4	1133.04	1132.91	1132.64
B5	1132.91	1132.80	1132.50
A	1127.45	1127.05	1127.01

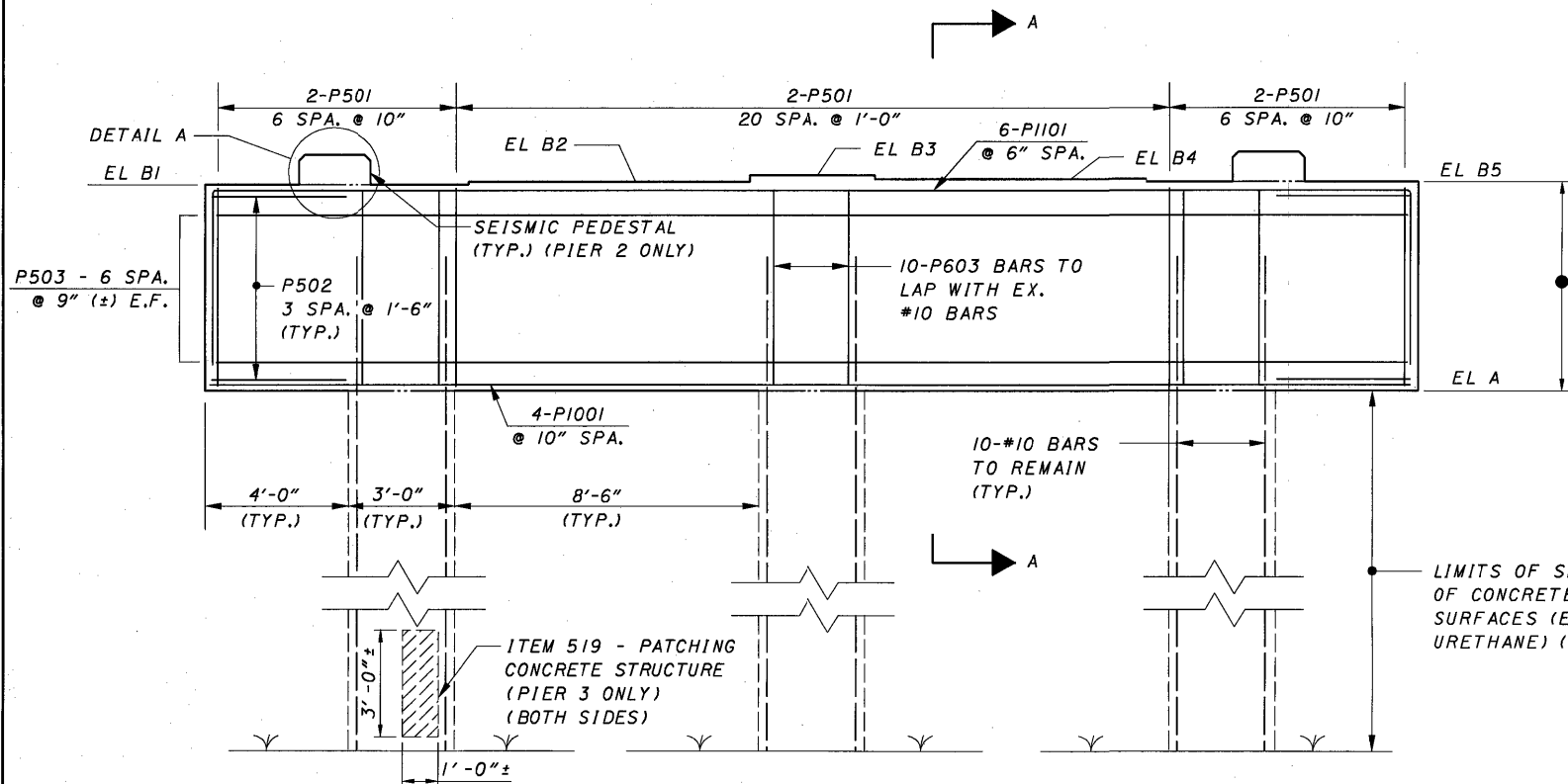


PLAN

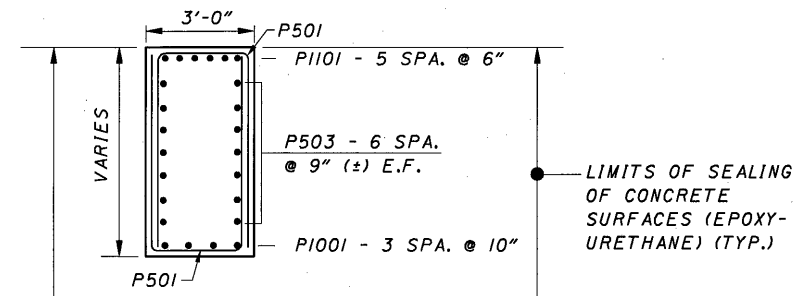


DETAIL A
(PIER 2 ONLY)

SECTION B-B
(PIER 2 ONLY)



ELEVATION



SECTION A-A

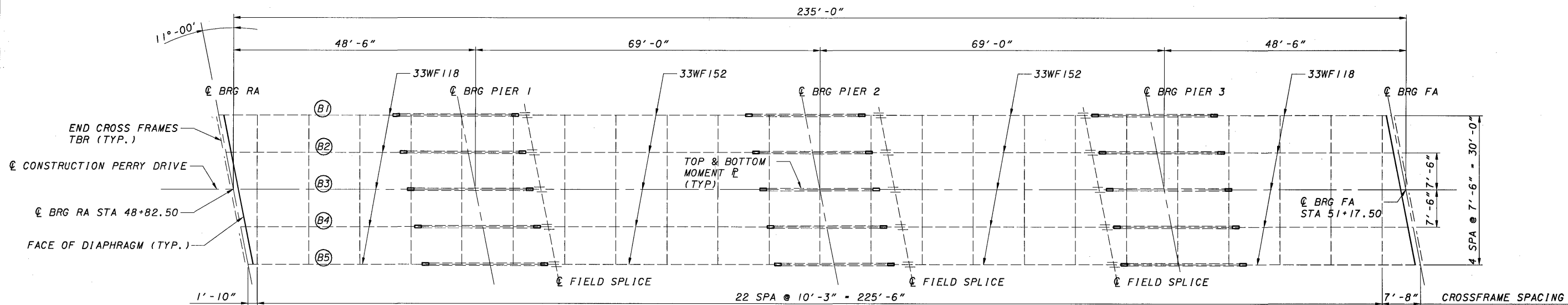
LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)

LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)

LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (TYP.)

NOTE:

- FOR LIST OF ABBREVIATIONS SEE SHT. 3/18.
- FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2/18.



FRAMING PLAN

ESTIMATED DEAD LOAD DEFLECTIONS TABLE (IN FEET)						
SPAN NO.	LOCATION	DEAD LOAD DEFLECTION				
		B 1	B 2	B 3	B 4	B 5
SPAN NO.1	☉ BRG. RA	0.000	0.000	0.000	0.000	0.000
	0.25 L	0.016	0.016	0.016	0.016	0.016
	0.50 L	0.018	0.018	0.018	0.018	0.018
	0.75 L	0.006	0.006	0.006	0.006	0.006
SPAN NO.2	☉ BRG. P1	0.000	0.000	0.000	0.000	0.000
	0.25 L	0.023	0.023	0.023	0.023	0.023
	0.50 L	0.037	0.037	0.037	0.037	0.037
	0.75 L	0.019	0.019	0.019	0.019	0.019
	☉ BRG. P2	0.000	0.000	0.000	0.000	0.000

ESTIMATED DEAD LOAD DEFLECTIONS TABLE (IN FEET)						
SPAN NO.	LOCATION	DEAD LOAD DEFLECTION				
		B 1	B 2	B 3	B 4	B 5
SPAN NO.3	☉ BRG. P2	0.000	0.000	0.000	0.000	0.000
	0.25 L	0.019	0.019	0.019	0.019	0.019
	0.50 L	0.037	0.037	0.037	0.037	0.037
	0.75 L	0.023	0.023	0.023	0.023	0.023
SPAN NO.4	☉ BRG. P3	0.000	0.000	0.000	0.000	0.000
	0.25 L	0.007	0.007	0.007	0.007	0.007
	0.50 L	0.018	0.018	0.018	0.018	0.018
	0.75 L	0.016	0.016	0.016	0.016	0.016
	☉ BRG. FA	0.000	0.000	0.000	0.000	0.000

NOTES:

1. WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE MAY BE MADE TO AREAS OF THE FLANGES DESIGNATED "COMPRESSION", AS INDICATED ON SHT. 11718. ATTACHMENTS SHALL NOT BE MADE TO AREAS DESIGNATED "TENSION".
2. EXISTING BEARINGS AT BOTH ABUTMENTS SHALL BE REMOVED AND REPLACED WITH ELASTOMERIC BEARINGS.
3. EXISTING END CROSSFRAMES SHALL BE REMOVED.
4. ALL EXISTING DIMENSIONS ARE ±.
5. RETROFIT FOR COVERPLATE ENDS: THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS LABOR, AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL THE RETROFIT SPLICE PLATES. PAYMENT SHALL BE MADE AT THE CONTRACT PRICE FOR ITEM 513, STRUCTURAL STEEL, MISC. (RETROFIT FOR COVERPLATE ENDS).
6. FOR LIST OF ABBREVIATIONS, SEE SHT. 3718.

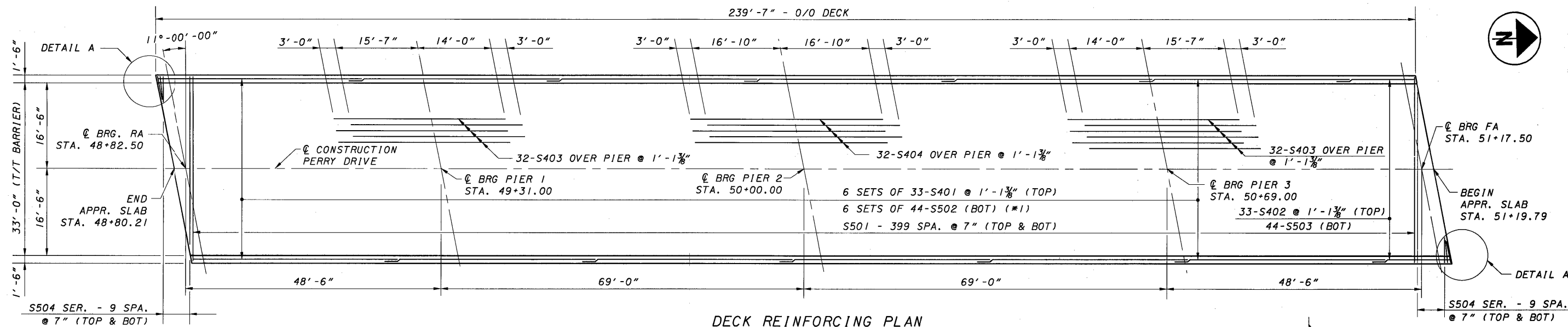
DESIGN AGENCY
BARR & PREVOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322

DATE 12/2005
 REVISED JEP STRUCTURE FILE NUMBER 7607539
 DRAWN SRR REVISED
 DESIGNED SRR CHECKED KCS

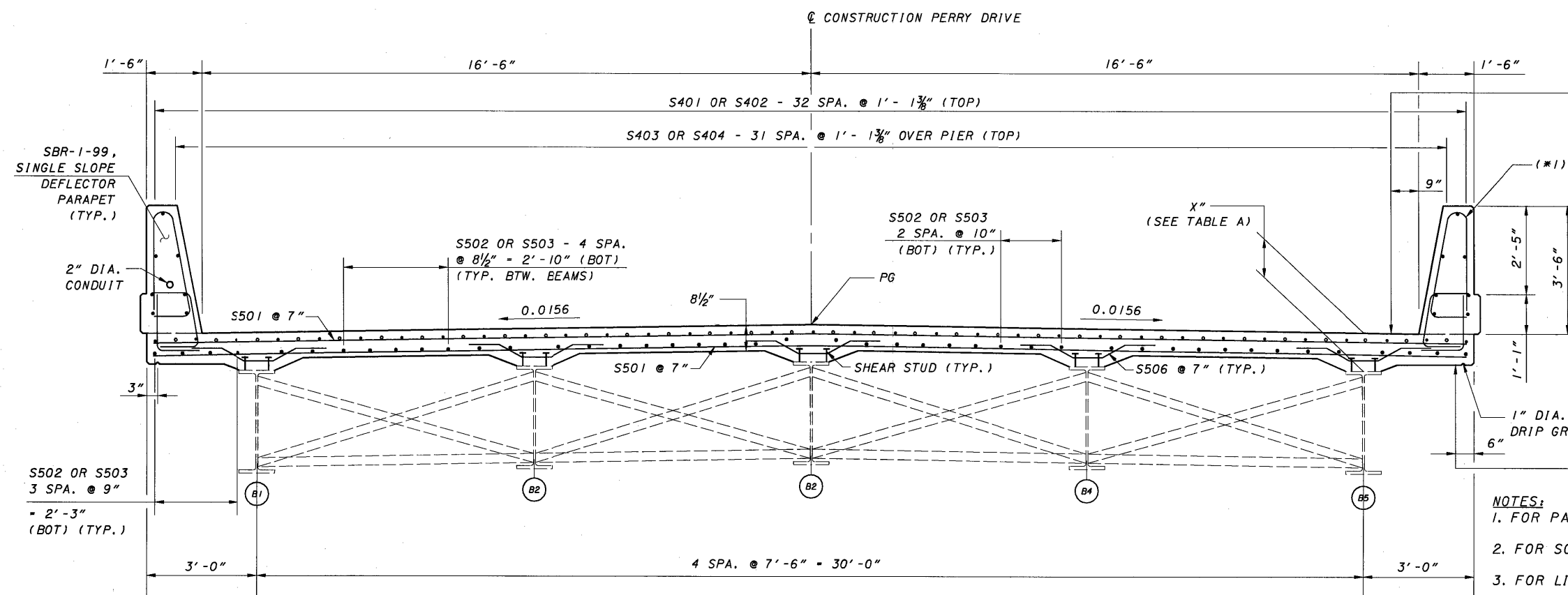
SUPERSTRUCTURE DETAILS
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30

STA-30-(6.70) (11.57)
 PID 23754

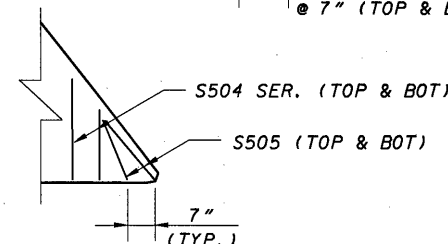
12/18
 113
 127



DECK REINFORCING PLAN



TRANSVERSE SECTION



DETAIL A

NOTES:

1. FOR PARAPET REINFORCING DETAILS, SEE SHT. 16/18.
2. FOR SCREED ELEVATIONS, SEE SHT. 14/18.
3. FOR LIST OF ABBREVIATIONS, SEE SHT. 3/18.
4. FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. 2/18.

5. THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM/GIRDER HAUNCH. THE ESTIMATE ASSUMES A HAUNCH AND DECK SLAB THICKNESS AS INDICATED IN TABLE A AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM/GIRDER FLANGE OF 1'-0".

DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM/GIRDER FLANGE IS +/- 3 INCHES.

THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM/GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.24.

TABLE A					
*DEPTH OF SLAB OVER BEAM, X					
LOCATION	REAR ABUT.	PIER NO. 1	PIER NO. 2	PIER NO. 3	FRWD. ABUT.
BEAM 1	10 1/2"	1'-2"	1'-5 3/8"	1'-7"	10 1/2"
BEAM 2	10 1/2"	1'-2 3/4"	1'-5"	1'-7"	10 1/2"
BEAM 3	10 1/2"	1'-3 1/4"	1'-5 3/8"	1'-6 7/8"	10 1/2"
BEAM 4	10 1/2"	1'-2 3/4"	1'-4 3/4"	1'-6 1/4"	10 1/2"
BEAM 5	10 1/2"	1'-3"	1'-4 3/4"	1'-6 1/2"	10 1/2"

*NOTE:

THE DIMENSIONS GIVEN ARE FOR REFERENCE ONLY. DEVIATION FROM THESE DIMENSIONS MAY OCCUR BECAUSE THE EXISTING BEAMS MAY NOT HAVE THE CAMBER ANTICIPATED FROM THE ORIGINAL DESIGN. THE TOP OF THE BEAMS SHALL BE MEASURED IN THE FIELD AND ACTUAL SLAB DEPTHS SHALL BE CALCULATED BY THE CONTRACTOR.

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DATE: 12/2005
 STRUCTURE FILE NUMBER: 7607539

REVIEWED: MLM
 DRAWN: KCS
 CHECKED: JEP

DESIGNED: KCS
 CHECKED: JEP

SUPERSTRUCTURE DETAILS
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30

STA-30-(6.70) (11.57)
 PID 23754

13/18
 114
 127

SCREED ELEVATIONS TABLE

	LOCATION	SCREED LINE 1		SCREED LINE 2		SCREED LINE 3		SCREED LINE 4		SCREED LINE 5		SCREED LINE 6		SCREED LINE 7	
		STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
SPAN 1	☉ BRG. RA	48+79.29	1137.18	48+79.58	1137.20	48+81.04	1137.32	48+82.50	1137.44	48+83.96	1137.33	48+85.42	1137.21	48+85.71	1137.19
	0.25L	48+91.42	1137.21	48+91.71	1137.24	48+93.17	1137.35	48+94.63	1137.47	48+96.08	1137.36	48+97.54	1137.24	48+97.83	1137.22
	0.50L	49+03.54	1137.23	49+03.83	1137.25	49+05.29	1137.37	49+06.75	1137.49	49+08.21	1137.38	49+09.67	1137.26	49+09.96	1137.24
SPAN 2	☉ BRG. PIER 1	49+15.67	1137.24	49+15.96	1137.26	49+17.42	1137.38	49+18.88	1137.50	49+20.33	1137.38	49+21.79	1137.27	49+22.08	1137.24
	0.25L	49+27.79	1137.25	49+28.08	1137.27	49+29.54	1137.39	49+31.00	1137.51	49+32.46	1137.39	49+33.92	1137.28	49+34.21	1137.26
	0.50L	49+45.04	1137.29	49+45.33	1137.32	49+46.79	1137.44	49+48.25	1137.56	49+49.71	1137.44	49+51.17	1137.33	49+51.46	1137.30
SPAN 3	☉ BRG. PIER 2	49+62.29	1137.33	49+62.58	1137.36	49+64.04	1137.47	49+65.50	1137.59	49+66.96	1137.48	49+68.42	1137.36	49+68.71	1137.34
	0.25L	49+79.54	1137.34	49+79.83	1137.36	49+81.29	1137.48	49+82.75	1137.60	49+84.21	1137.48	49+85.67	1137.37	49+85.96	1137.35
	0.50L	49+96.79	1137.34	49+97.08	1137.37	49+98.54	1137.49	50+00.00	1137.60	50+01.46	1137.48	50+02.92	1137.37	50+03.21	1137.35
SPAN 4	☉ BRG. PIER 3	50+14.04	1137.37	50+14.33	1137.39	50+15.79	1137.51	50+17.25	1137.63	50+18.71	1137.51	50+20.17	1137.39	50+20.46	1137.36
	0.25L	50+31.29	1137.36	50+31.58	1137.39	50+33.04	1137.50	50+34.50	1137.61	50+35.96	1137.49	50+37.42	1137.37	50+37.71	1137.35
	0.75L	50+48.54	1137.29	50+48.83	1137.31	50+50.29	1137.42	50+51.75	1137.53	50+53.21	1137.41	50+54.67	1137.29	50+54.96	1137.26
SPAN 4	☉ BRG. PIER 3	50+65.79	1137.17	50+66.08	1137.20	50+67.54	1137.30	50+69.00	1137.41	50+70.46	1137.28	50+71.92	1137.16	50+72.21	1137.13
	0.25L	50+77.92	1137.09	50+78.21	1137.11	50+79.67	1137.22	50+81.13	1137.32	50+82.58	1137.20	50+84.04	1137.07	50+84.33	1137.04
	0.50L	50+90.04	1137.00	50+90.33	1137.02	50+91.79	1137.12	50+93.25	1137.23	50+94.71	1137.10	50+96.17	1136.96	50+96.46	1136.94
	0.75L	51+02.17	1136.88	51+02.46	1136.90	51+03.92	1137.00	51+05.38	1137.10	51+06.83	1136.96	51+08.29	1136.83	51+08.58	1136.80
	☉ BRG. FA	51+14.29	1136.72	51+14.58	1136.74	51+16.04	1136.84	51+17.50	1136.94	51+18.96	1136.80	51+20.42	1136.66	51+20.71	1136.64

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 STRUCTURE FILE NUMBER
 7607539

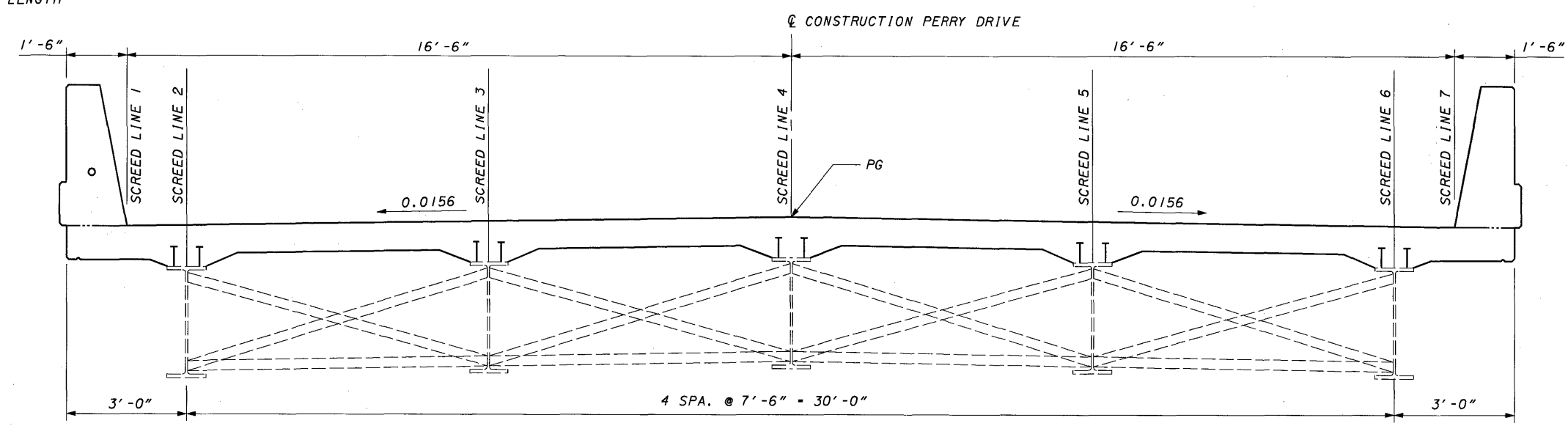
REVIEWED
 JEP
 DRAWN
 SRR
 DESIGNED
 SRR
 CHECKED
 KCS

SCREED ELEVATIONS
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30

STA-30-(6.70) (11.57)
 PID 23754

14/18
 115
 127

L = SPAN LENGTH

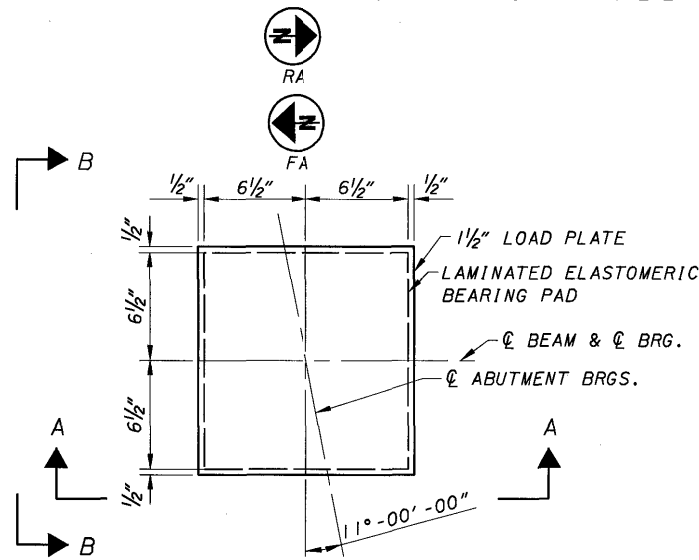


TRANSVERSE SECTION

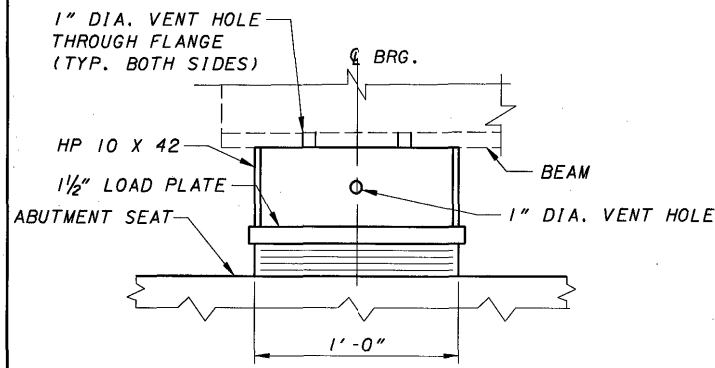
- NOTES:
- SCREED ELEVATIONS
 SCREED ELEVATIONS ARE FOR THE DECK SLAB SURFACE PRIOR TO CONCRETE PLACEMENT. ALLOWANCE HAS BEEN MADE DUE TO REMAINING DEAD LOAD DEFLECTIONS.
 - FOR LIST OF ABBREVIATIONS, SEE SHT. 37/18.

LAMINATED ELASTOMERIC BEARINGS											
LOCATION	TYPE	BEARING DIMENSIONS						STEEL LOAD PLATE	REACTIONS		MAXIMUM DESIGN LOAD
		L	W	t _i	t _e	T	N	LENGTH X WIDTH X THICKNESS	DL	LL	
ABUTMENTS	EXPANSION	1'-1"	1'-1"	0.500"	0.375"	3 1/8"	5	1'-2" X 1'-2" X 1 1/2"	49 k	55 k	104 k
PIER 1 & 3	EXPANSION	1'-3"	1'-4"	0.500"	0.375"	3 1/8"	5	1'-4" X 1'-5" X 1 1/2"	109 k	66 k	175 k
PIER 2	EXPANSION	1'-4"	1'-4"	0.500"	0.375"	3 1/8"	5	1'-5" X 1'-5" X 1 1/2"	121 k	66 k	187 k

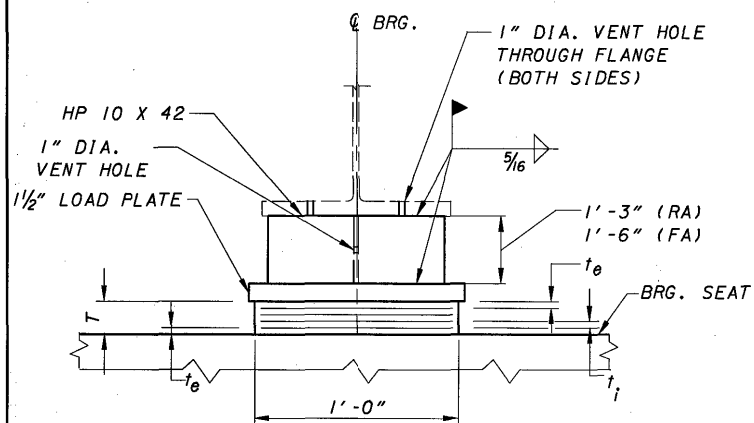
t_i - THICKNESS OF INTERNAL LAYER
t_e - THICKNESS OF EXTERNAL LAYER
T - TOTAL THICKNESS OF ELASTOMERIC BEARING
N - NO. OF STEEL LAMINATES
INTERNAL STEEL LAMINATE THICKNESS = 0.0747"
DUROMETER OF ELASTOMER = 50 DUROMETER



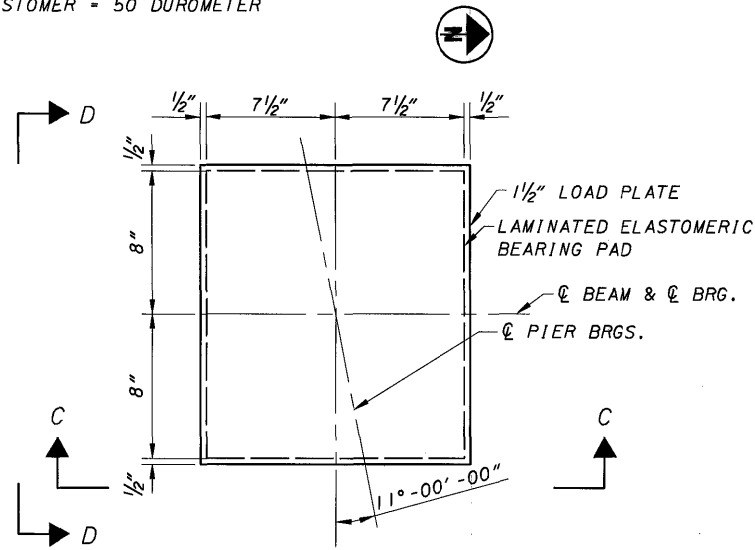
PLAN
(LAMINATED ELASTOMERIC ABUTMENT EXPANSION BEARINGS)



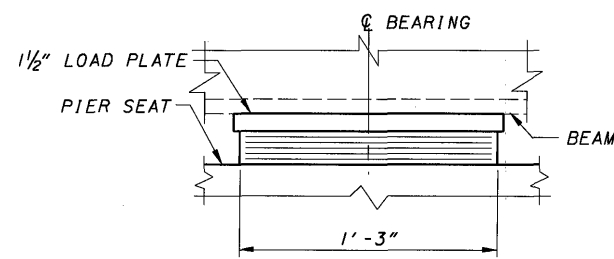
VIEW A-A



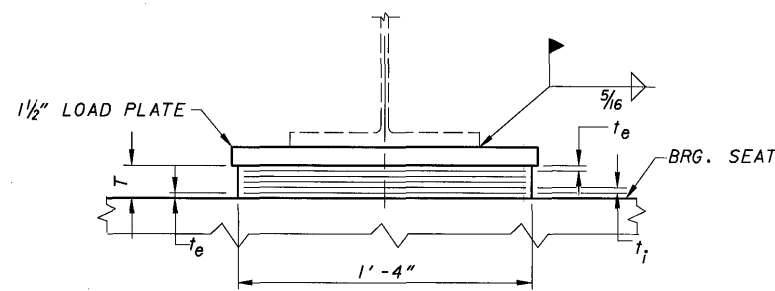
VIEW B-B



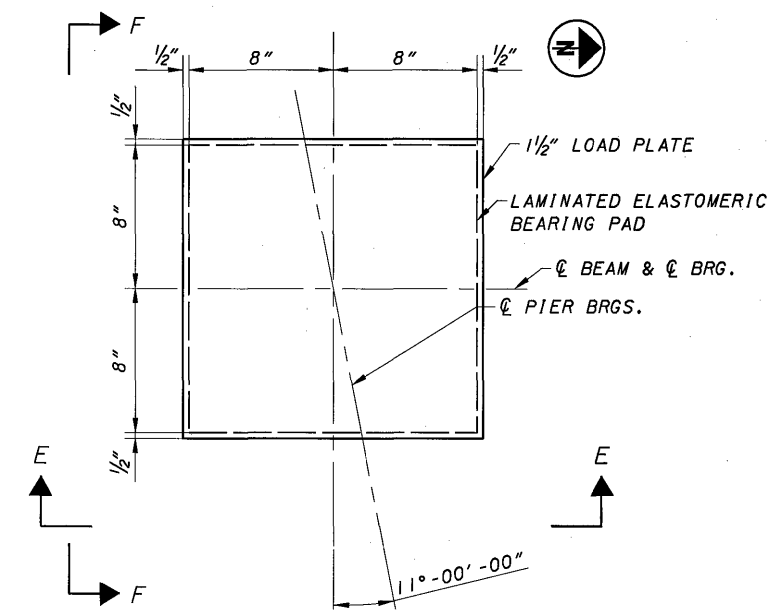
PLAN
(LAMINATED ELASTOMERIC PIER EXPANSION BEARINGS)
(PIER 1 AND PIER 3)



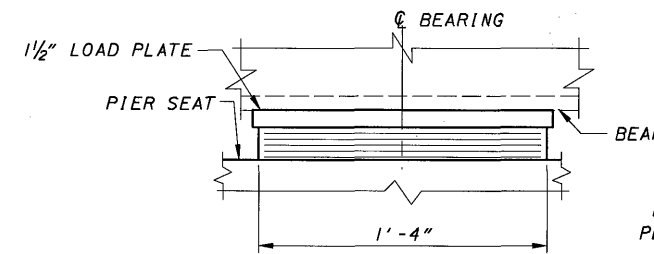
VIEW C-C



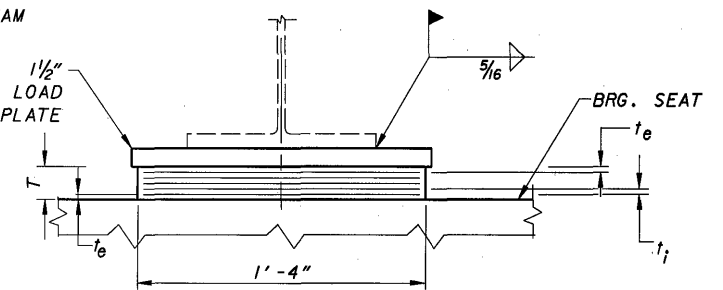
VIEW D-D



PLAN
(LAMINATED ELASTOMERIC PIER EXPANSION BEARINGS)
(PIER 2)



VIEW E-E



VIEW F-F

- NOTES:
1. THE CONTRACTOR SHALL FIELD VERIFY THE HP10 X 42 PEDESTAL HEIGHT.
 2. FOR LIST OF ABBREVIATIONS, SEE SHT. 3/18.
 3. THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION 1, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
 4. CONTROL WELDING SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300 DEGREES F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.
 5. IF THE STEEL IS PLACED ON ELASTOMER AT AN AMBIENT TEMPERATURE HIGHER THAN 80 DEGREES F OR LOWER THAN 40 DEGREES F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60 DEGREES F (+/-) 10 DEGREES F, RAISE THE BEAMS OR GIRDERS TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60 DEGREES F (+/-) 10 DEGREES F.
 6. HP SECTIONS, LOAD PLATES AND OTHER MISCELLANEOUS STEEL FOR ELASTOMERIC BEARINGS SHALL BE A MINIMUM OF A36 STEEL AND SHALL BE INCLUDED FOR PAYMENT WITH ITEM 616 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES (NEOPRENE) AND LOAD PLATE.
 7. DRILLING OF HOLES FOR VENT HOLES THROUGH FLANGES SHALL BE INCLUDED FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL, MISC.: (FIELD DRILLING BEAM HOLES).

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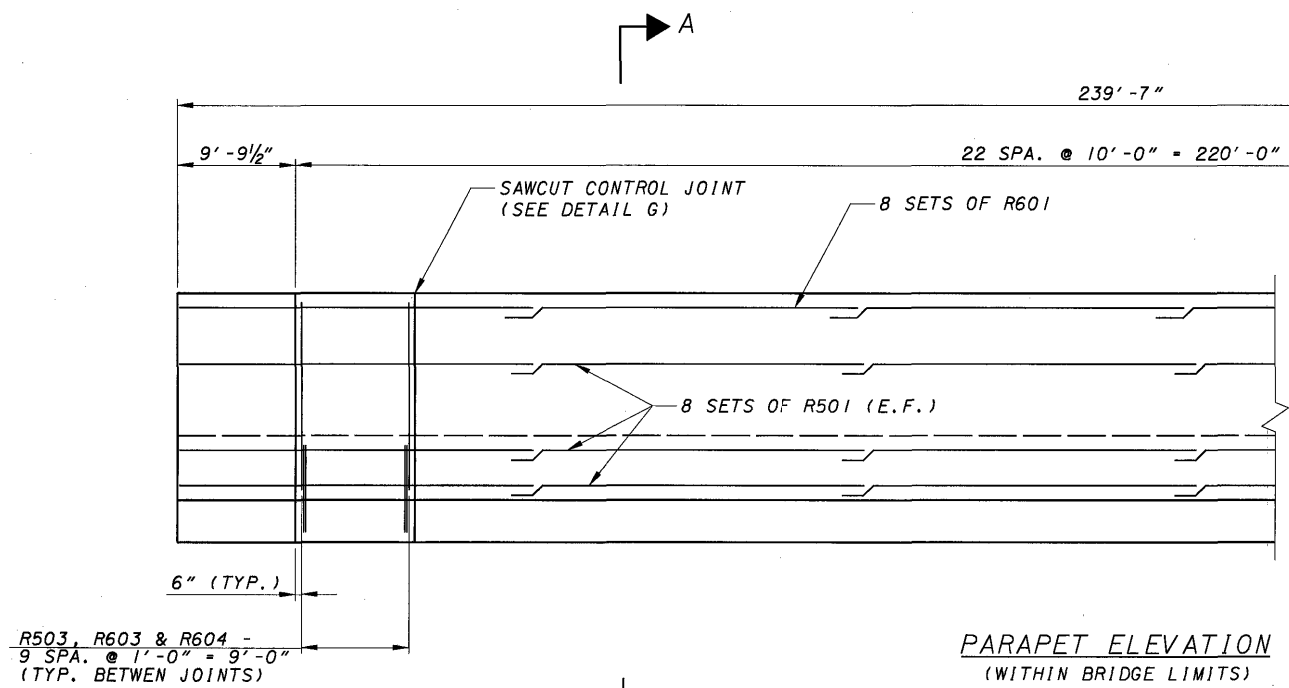
DATE: 12/2005
REVIEWED: JEP
DRAWN: SRR
DESIGNED: SRR
CHECKED: KCS

STRUCTURE FILE NUMBER: 7607539

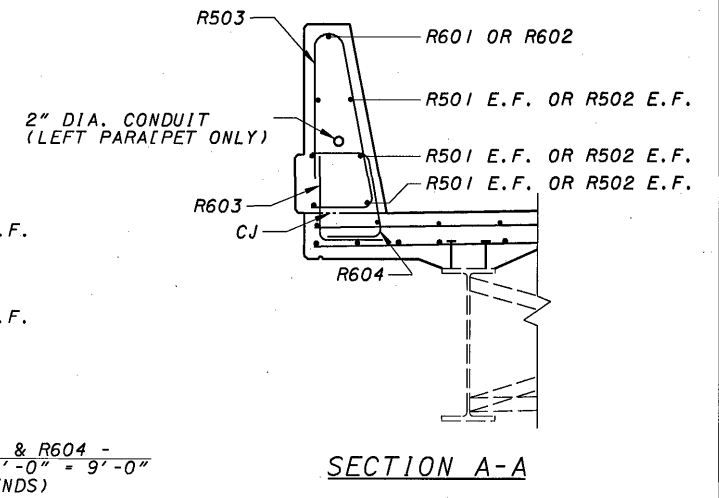
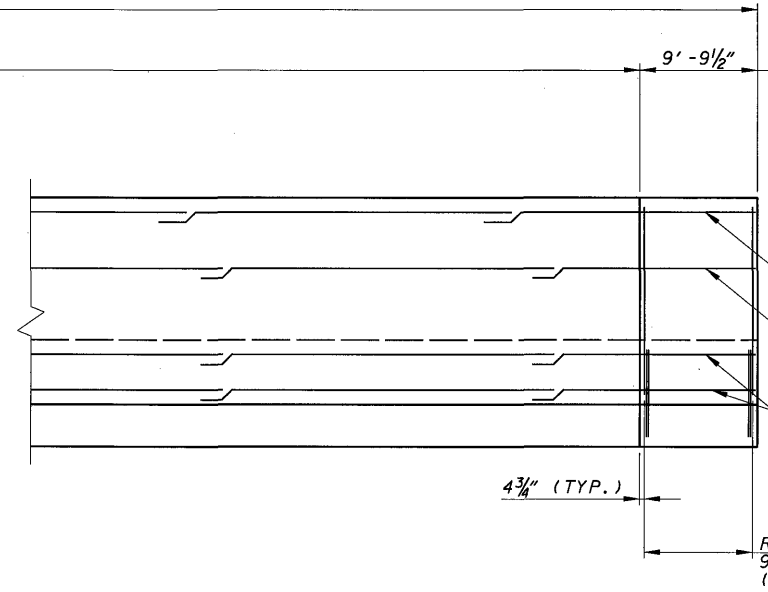
BEARING DETAILS
BRIDGE NO. STA-30-1157
PERRY DRIVE OVER US 30

STA-30-(6.70) (11.57)
PID 23754

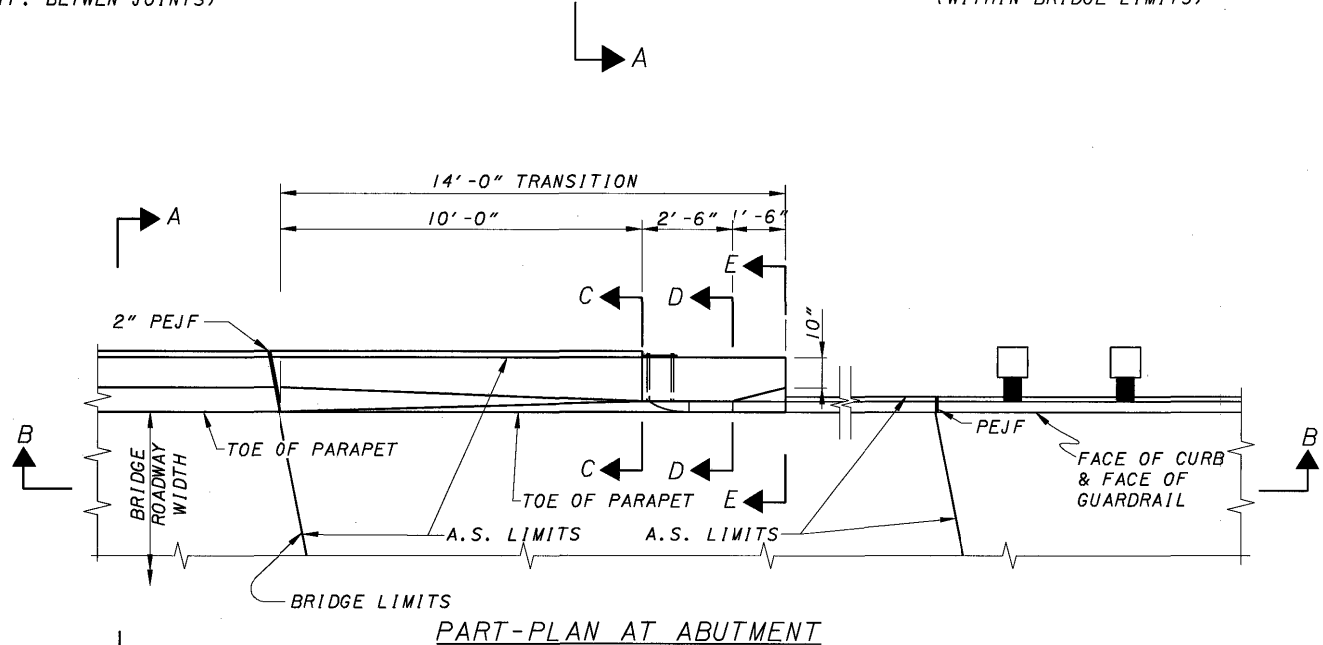
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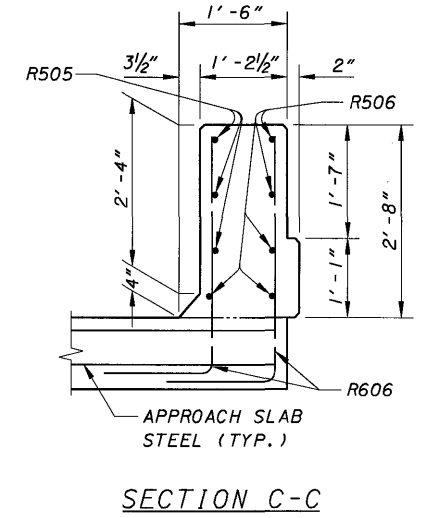
PARAPET ELEVATION
(WITHIN BRIDGE LIMITS)



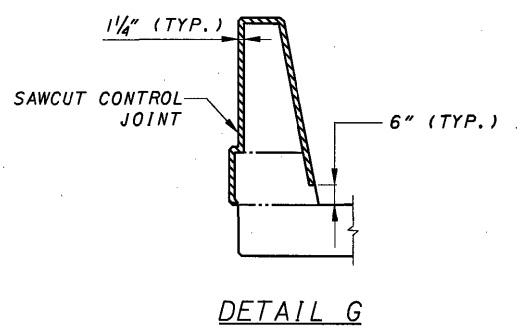
SECTION A-A



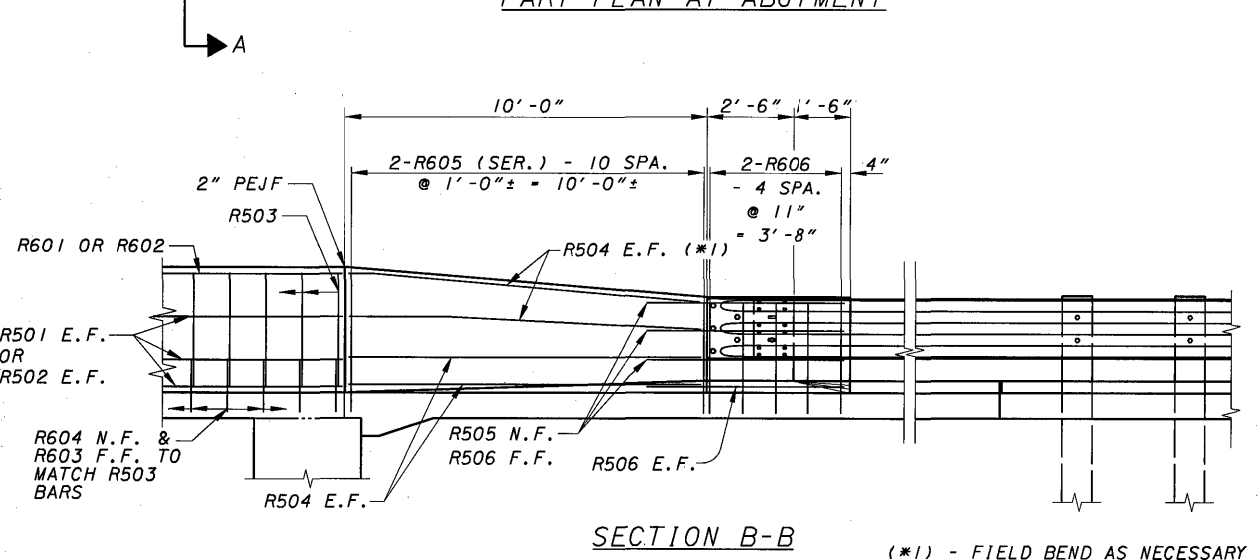
PART-PLAN AT ABUTMENT



SECTION C-C

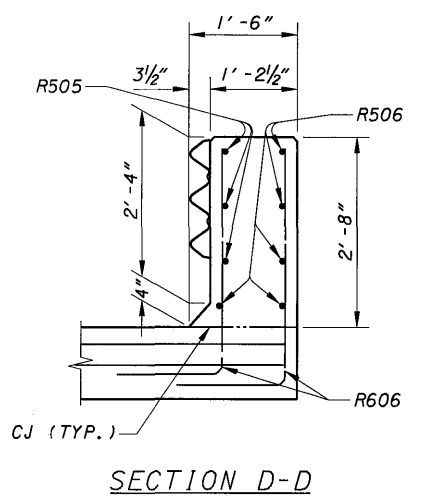


DETAIL G

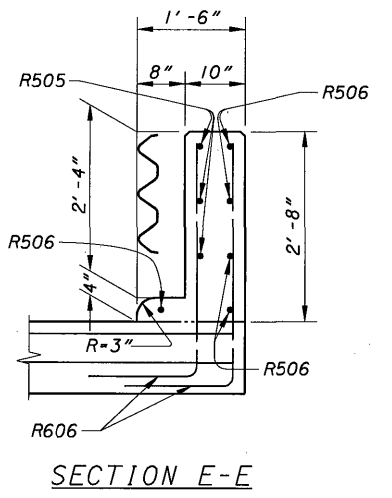


SECTION B-B

(*1) - FIELD BEND AS NECESSARY



SECTION D-D



SECTION E-E

- NOTES:
1. FOR LIST OF ABBREVIATIONS, SEE SHT. [3/18].
 2. FOR TRANSVERSE SECTION, SEE SHT. [13/18].
 3. FOR ADDITIONAL PARAPET TRANSITION DETAILS, SEE STD. DWG. SBR-1-99.
 4. FOR REINFORCING STEEL LAP LENGTHS, SEE SHT. [2/18].
 5. PARAPET TRANSITIONS SHALL OCCUR ON THE APPROACH SLABS AND SHALL BE INCLUDED FOR PAYMENT WITH ITEM 511 - CLASS HP CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN. REINFORCING STEEL IN THE TRANSITIONS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 509 - EPOXY COATED REINFORCING STEEL.
 6. FOR APPROACH SLAB DETAILS, SEE STD. DWG. AS-1-81. APPROACH SLABS AND REINFORCING STEEL ASSOCIATED WITH APPROACH SLABS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN.

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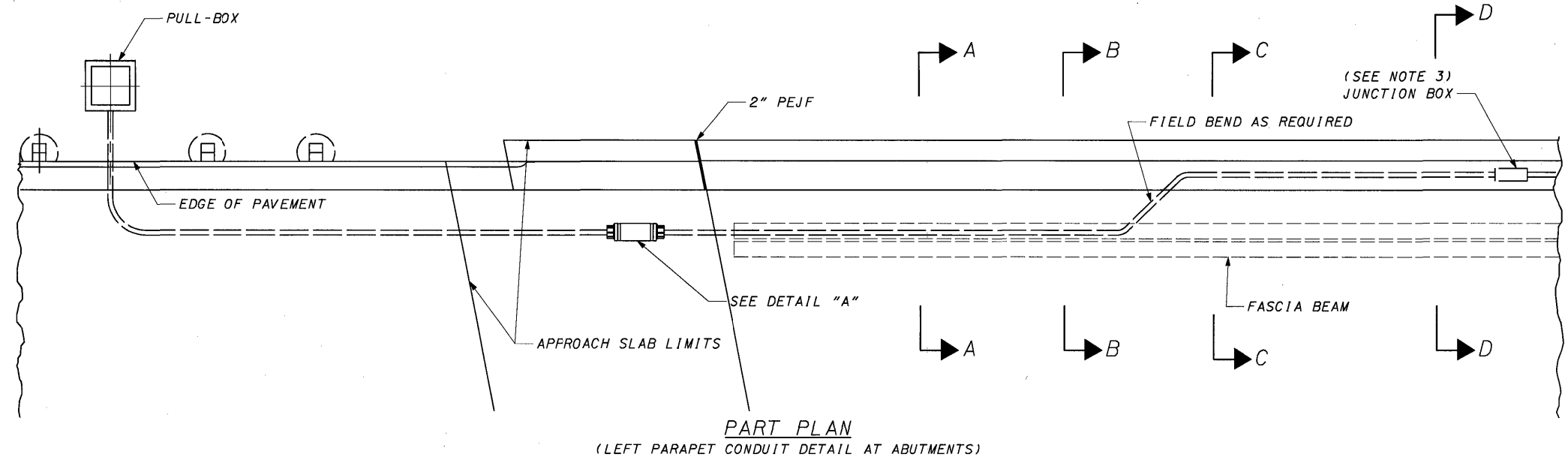
REVIEWED: JEP
 DRAWN: SRR
 CHECKED: KCS

DESIGNED: SRR

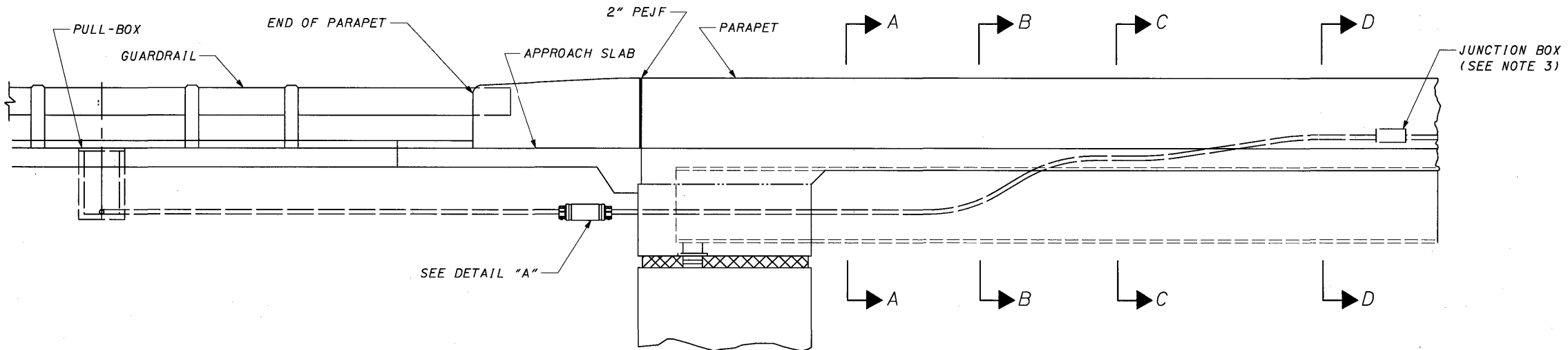
PARAPET DETAILS
 BRIDGE NO. STA-30-1157
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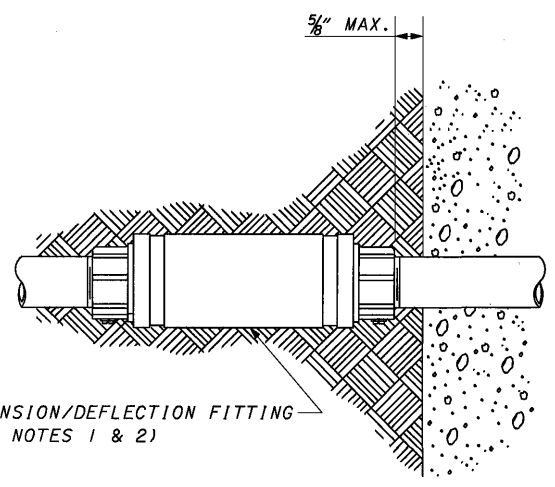
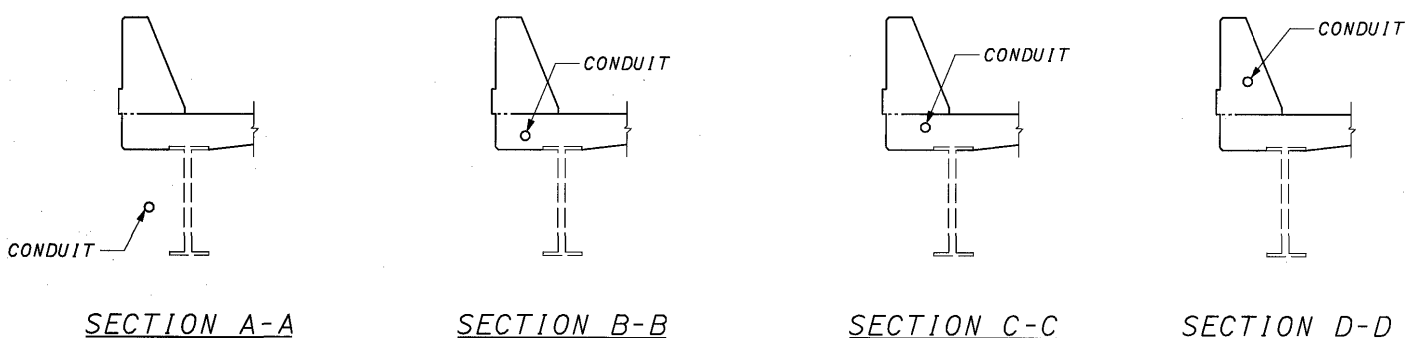


PART PLAN
(LEFT PARAPET CONDUIT DETAIL AT ABUTMENTS)



ELEVATION
(LEFT PARAPET CONDUIT DETAIL AT ABUTMENTS)

LOCATION	625	625	625
	CONDUIT, 2", 725.04	JUNCTION BOX (6"x6"x4")	PULL BOX, 725.08, 24"
STA-30-1157	FT	EACH	EACH
	350	2	2
TOTALS CARRIED TO GENERAL SUMMARY	350	2	2



EXPANSION/DEFLECTION FITTING
(SEE NOTES 1 & 2)

- NOTES:**
1. THE EXPANSION/DEFLECTION FITTING (NEMA 4 RATING) SHALL CONSIST OF IRON OR BRONZE END COUPLINGS IN A HEAVY DUTY NEOPRENE SLEEVE HELD IN PLACE BY STAINLESS STEEL BONDS. A COPPER BRAID BONDING JUMPER SHALL BE INSTALLED INSIDE THE SLEEVE BETWEEN THE END COUPLINGS FOR GROUNDING CONTINUITY.
 2. AT THE END OF THE ABUTMENT, PLACE CONDUIT IN CONCRETE WITH THREADS ONLY EXPOSED, COMPACT BACKFILL UP TO LEVEL OF CONDUIT, THEN ATTACH EXPANSION/DEFLECTION FITTING ALONG WITH REMAINING CONDUIT AND COMPLETE COMPACTION OF BACKFILL.
 3. IF NO OTHER PULLING CAPABILITY IS LOCATED NEAR THE END OF THE BRIDGE, AN INTERNAL-FLANGE JUNCTION BOX MEETING 725.10 AND A MINIMUM LENGTH OF 5 CONDUIT DIAMETERS, SHALL BE INSTALLED.
 4. FOR LIST OF ABBREVIATIONS, SEE SHT. 3/18.
 5. FOR GROUNDING OF BRIDGE STRUCTURE, SEE STD. DWG. HL-50.21

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PARAPET DETAILS
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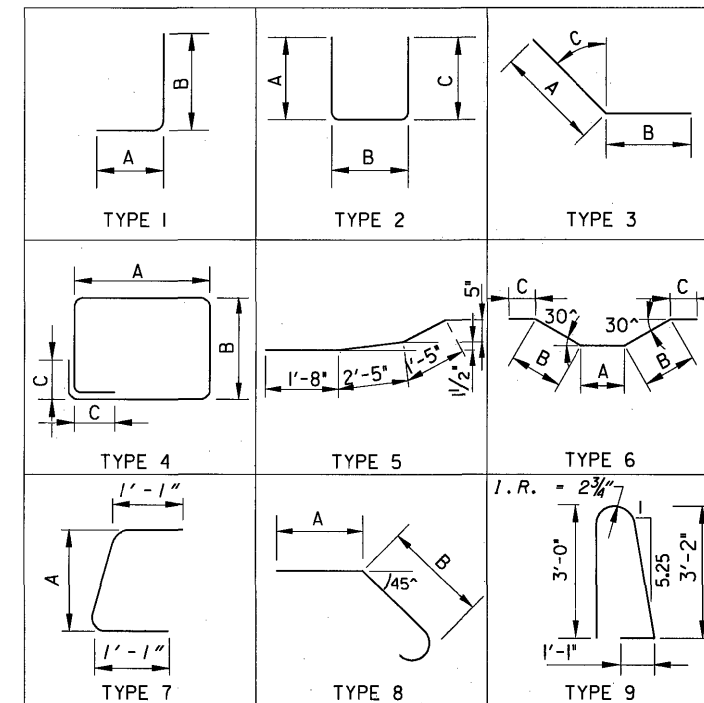
REINFORCING STEEL LIST

(*) FIELD BEND AS NECESSARY

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	INCR.
ABUTMENTS									
W501	28	13'-2"	385	STR					
W502	40	8'-0"	334	STR					
	4	7'-6"							
W503	S.O.	T0	171	STR					1'-10"
	4	13'-0"							
W504	12	5'-0"	63	STR					
	4	8'-0"							
W505	S.O.	T0	131	STR					2'-6"
	3	13'-0"							
	4	3'-8"							
W601	S.O.	T0	168	STR					3"
	6	5'-7"							
W602	24	8'-6"	306	STR					
W603	36	16'-6"	892	STR					
	4	2'-10"							
W604	S.O.	T0"	219	STR					5 7/8"
	8	6'-3"							
W605	4	9'-8"	58	3	8'-9"	1'-0"	25°59'		
W606	4	6'-3"	38	3	5'-5"	1'-0"	21°48'		
W801	21	5'-0"	280	STR					
A501	136	9'-2"	1297	2	3'-0"	3'-5"	3'-0"		
A502	68	6'-8"	471	2	2'-0"	2'-11"	2'-0"		
A503	44	7'-3"	333	STR					
A504	82	6'-9"	576	2	2'-9"	1'-6"	2'-9"		
A801	28	36'-5"	2716	STR					
A802	6	8'-4"	134	STR					
A803	6	8'-6"	136	STR					
A804	12	10'-0"	320	STR					
A805	32	10'-5"	890	STR					
A806	6	8'-5"	134	STR					
D801	68	5'-2"	938	8	1'-5"	2'-8"			
D802	146	3'-3"	1267	STR					
D803	39	4'-6"	469	STR					
ABUTMENT TOTAL =		12,726	LBS.						
PIERS									
P501	198	12'-3"	2525	2	4'-11"	2'-8"	4'-11"		
P502	24	9'-5"	236	2	3'-6"	2'-8"	3'-6"		
P503	42	33'-6"	1468	STR					
P601	6	11'-10"	107	4	2'-8"	3'-0"	0'-8"		
P602	4	4'-6"	28	1	3'-0"	1'-8"			
P603	90	5'-0"	676	STR					
P901	18	4'-5"	271	1	3'-0"	1'-8"			
PI001	12	33'-6"	1730	STR					
PI101	18	42'-8"	4076	2	4'-11"	33'-6"	4'-11"		
PIER TOTAL =		11,117	LBS.						

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	INCR.
SUPERSTRUCTURE									
S401	198	40'-0"	5291	STR					
S402	33	12'-2"	266	STR					
S403	64	32'-8"	1393	STR					
S404	32	36'-8"	784	STR					
S501	800	35'-8"	29760	STR					
S502	264	40'-0"	11014	STR					
S503	44	15'-5"	704	STR					
	4	5'-8"							
S504	S.O.	T0	800	STR					3'-0"
	10	32'-8"							
S505	8	5'-6"	46	STR					
S506	2055	4'-9"	10181	6	0'-10"	1'-3"	0'-9"		
R501	96	30'-0"	3004	STR					
R502	12	19'-10"	248	STR					
R503	480	7'-5"	3713	9	7'-5"				
R504	32	10'-0"	334	STR					
R505	12	5'-6"	69	5					
R506	20	5'-6"	115	STR					
R601	16	30'-0"	721	STR					
R602	2	24'-1"	72	STR					
R603	480	2'-4"	1682	1	1'-1"	1'-5"			
R604	480	3'-5"	2463	7	1'-5"	1'-1"			
	8	4'-4"			3'-6"				
R605	S.O.	T0	622	1	T0	1'-0"			7/8"
	11	5'-1"			4'-3"				
R606	40	4'-4"	260	1	3'-6"	1'-0"			
SUPERSTRUCTURE TOTAL - 73,542 LBS.									
GRAND TOTAL - 97,385 LBS.									

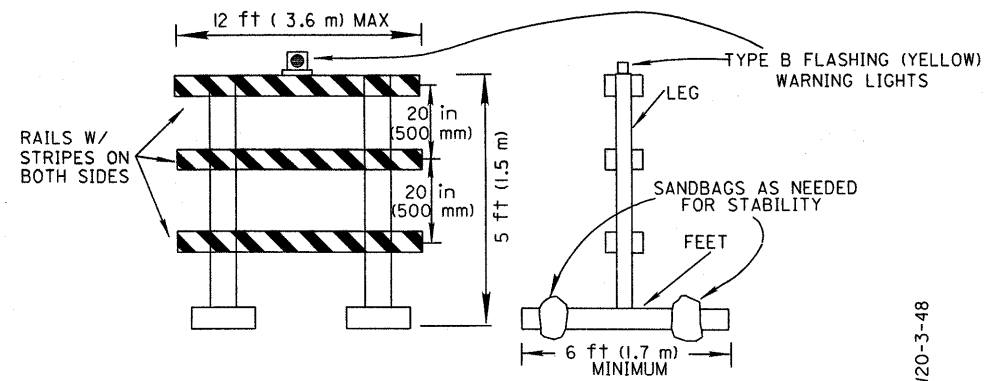
BENDING DIAGRAMS



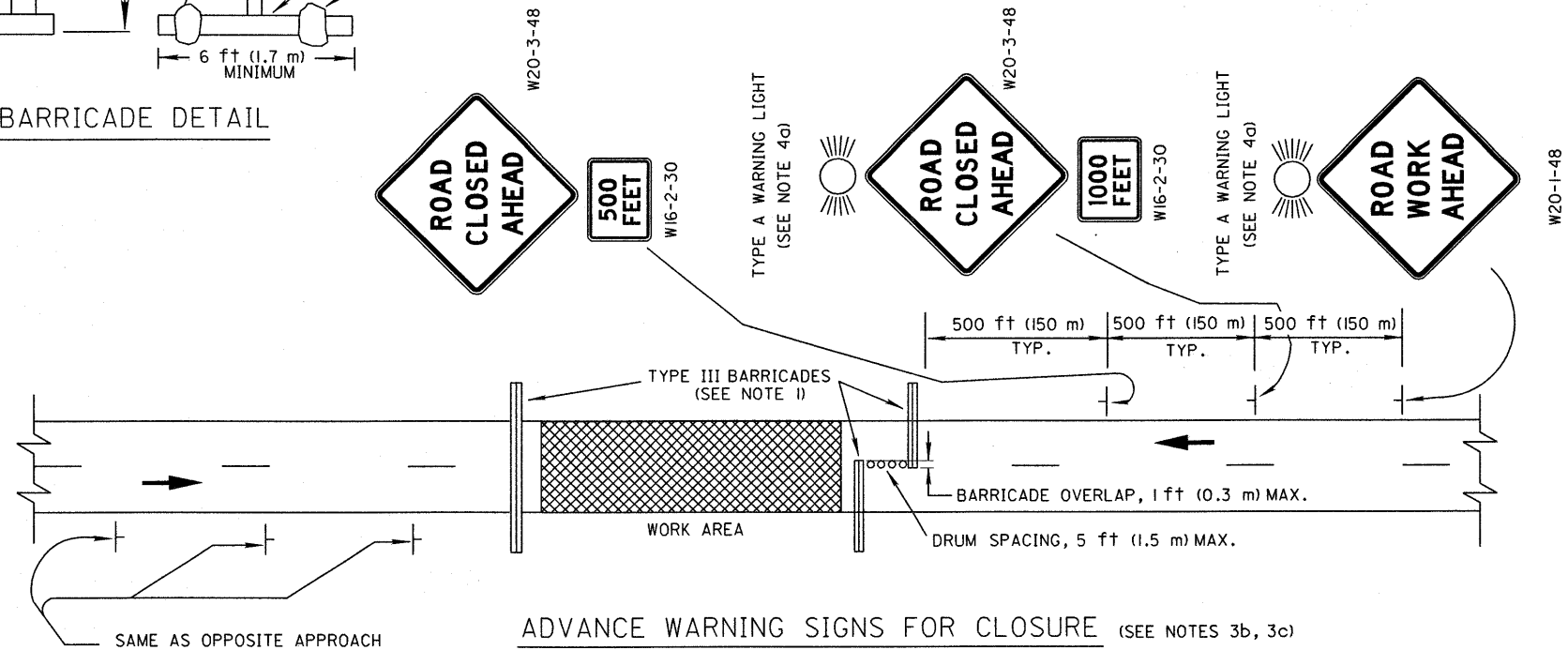
NOTES:

1. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, S501 IS A NO. 5 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. R INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.
2. "STR." IN THE TYPE COLUMN INDICATES STRAIGHT BARS.
3. S.O. DENOTES "SERIES OF".
4. REFER TO C.M.S. SECTION 509.05 FOR STANDARD BEND DIMENSIONS.
5. ALL REINFORCING BARS SHALL BE EPOXY COATED. COATING WHICH HAS BEEN DAMAGED OR OTHERWISE DOES NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS. PAYMENT SHALL BE INCLUDED WITH ITEM 509 FOR PAYMENT.
6. FOR LIST OF ABBREVIATIONS, SEE SHT. 3/18.

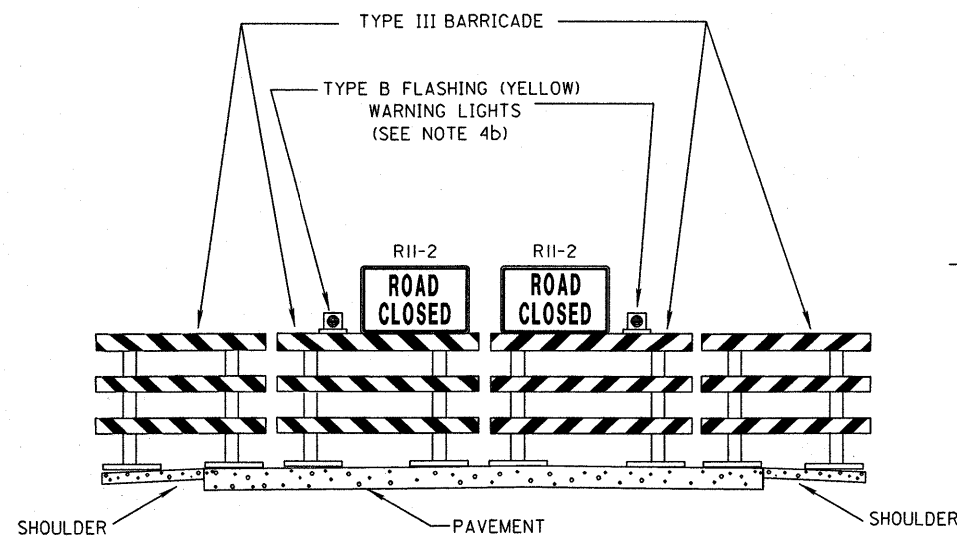
DESIGN AGENCY: BARR & PREYOST
 2800 CORPORATE EXCHANGE DR., STE. 240
 COLUMBUS, OH 43231
 (614)-714-0270 FAX (614)-714-0322
 DATE: 12/2005
 REVISION: JEP
 STRUCTURE FILE NUMBER: 7607539
 DRAWN: SRR
 REVISION: KCS
 DESIGNED: TCM
 CHECKED: KCS
REINFORCING STEEL LIST
 BRIDGE NO. STA-30-1157
 PERRY DRIVE OVER US 30
STA-30-(6.70)/(11.57)
PID 23754
 18/18
 119
 127



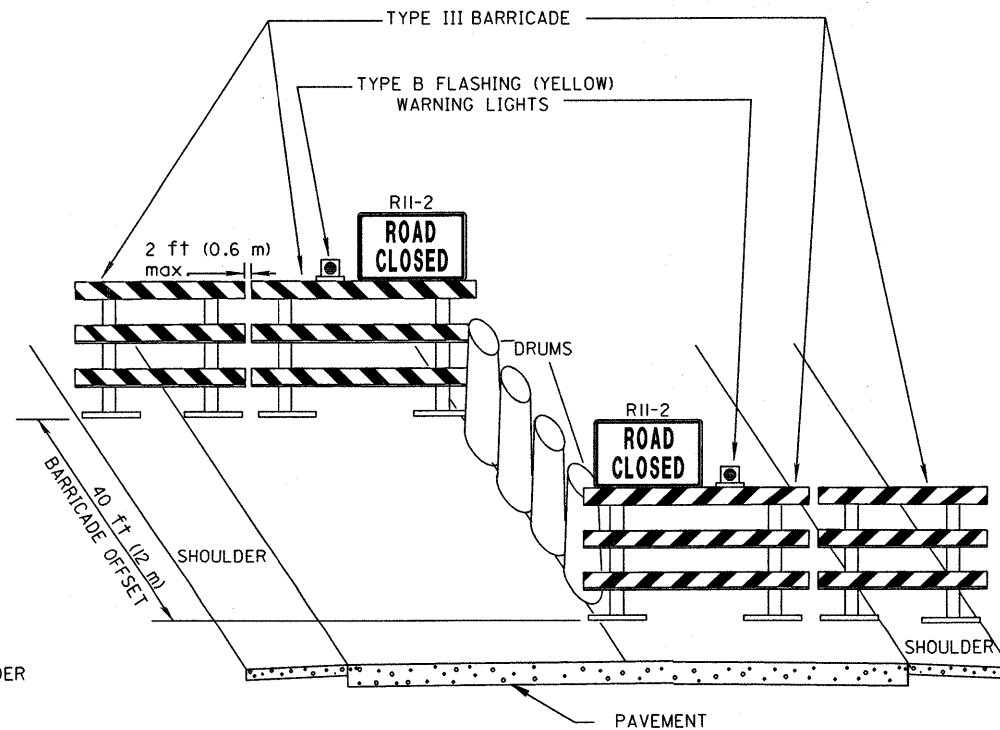
TYPE III BARRICADE DETAIL



ADVANCE WARNING SIGNS FOR CLOSURE (SEE NOTES 3b, 3c)



BARRICADE CLOSURE PROFILE



BARRICADE CLOSURE OFFSET OPTION

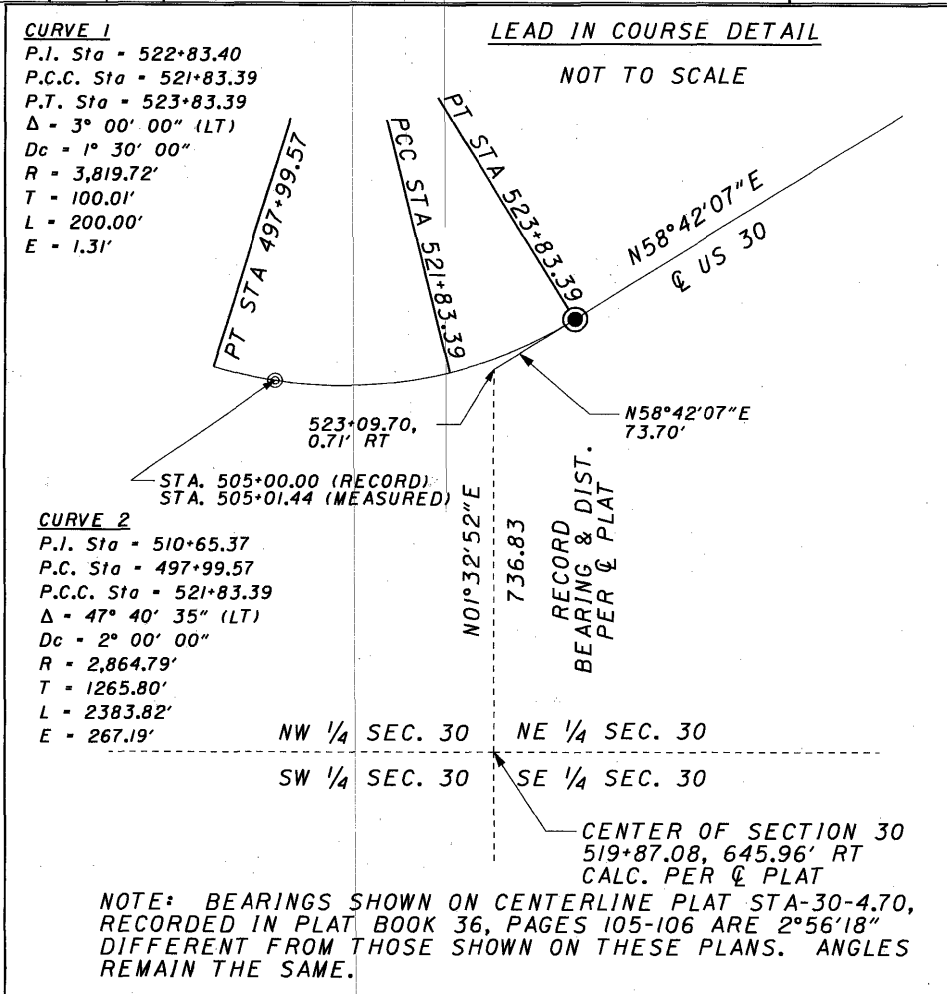
NOTES

1. BARRICADE USE
 - a. Barricades shall be NCHRP 350 compliant and shall be erected according to details shown. When the road is closed to traffic, barricades shall be used to effectively close the entire roadway, including the paved or aggregate shoulder.
 - b. Barricades along adjacent lanes may be offset from each other as shown, with drums used to close the resulting gap. Maximum drum spacing shall be 5 feet (1.5 m).
2. BARRICADE REFLECTORIZATION AND COLOR
 - a. In construction or maintenance areas, all rails of the barricades shall be reflectorized with orange and white reflectorized Type G sheeting in 6 inches (150 mm) wide alternate stripes which slope downward toward the center line of the road at an angle of 45 degrees. All three rails of the barricade shall be striped on both sides. Legs and feet shall be either all-white or may display the natural color of the material used.
 - b. Barricades used in permanent or semi-permanent applications shall differ only in that they shall use red and white stripes.
3. SIGNS
 - a. Where the road is closed to traffic by the erection of barricades, ROAD CLOSED (R11-2) signs shall be mounted as shown.
 - b. The Advance Warning Signs shown on this drawing are intended for use when the travelled way is brought to an end with no direction given to traffic. Where traffic has been directed from the permanent roadway at or just in advance of the barricades, advance signing should be provided as shown in SCD MT-95.70 or OMUTCD Figure 6H-7 as appropriate.
 - c. The Advance Warning Signs shall be placed on both sides of the roadway for 4-lane divided highways or when required by the plans.
4. FLASHING WARNING LIGHTS
 - a. Type A Flashing Warning Lights are required on the ROAD WORK AHEAD (W20-1) sign and on the first ROAD CLOSED AHEAD (W20-3) sign.
 - b. Type B Flashing Warning Lights shall be provided on Type III Barricades, one light per each closed lane. Each light shall be conspicuously visible at all distances up to 1000 feet (300 m) under normal atmospheric conditions. The light shall be in operation at all times during the period the highway is closed.
5. OPERATION ON 2-LANE 2-WAY ROADWAYS
 - a. Where the barricade runs across the entire roadway without longitudinally offsetting sections, the Contractor will normally open only the left side of the barricade as necessary to allow the construction vehicle to enter, and then shall immediately close it. The entire barricade will not normally be opened at the same time. The Contractor shall assign an employee to assure that the barricade is closed at the end of each workday.
 - b. Where the sections of the barricade are offset from each other with drums provided to close the gap (see note 1b), the contractor may move the drums as necessary to allow the construction vehicle to enter, and then shall immediately replace the drums. The contractor shall assign an employee to assure that the drums are in place at the end of each workday.

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD INSTRUMENT NO.	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED INSTRUMENT NO.
											LEFT	RIGHT			
1-T	R. J. CORMAN RAILROAD COMPANY CLEVELAND LINE, AN OHIO CORPORATION	2	1995011737	0599004	8.61	0.000	0.036	0.000	0.036				STATE	CONSTRUCTION ACCESS	OL 674
				NOT ASSIGNED	0.644	0.262	0.399	0.017	0.382	SEE OVERLAP TABLE SHEET 2	OL 680				
				0599005	12.24	0.000	0.037	0.000	0.037	SEE OVERLAP TABLE SHEET 2	OL 875				
				I-T TOTAL	21.494	0.262	0.472	0.017	0.455						
2-SH1	CITY OF MASSILLON, MUNICIPALITY OF THE STATE OF OHIO	2	1999050784	NOT ASSIGNED	0.316	0.014	0.002	0	0.002					OL 680	
				NOT ASSIGNED			0.002	0	0.002			OL 680			
2-SH2		2			0.316	0.014	0.004	0	0.004		0.149	0.149			
2-T		2-3		0580019	22.45	0.000	0.043	0.000	0.043				STATE	CONSTRUCTION ACCESS	OL 681
				NOT ASSIGNED	0.316	0.014	0.316	0.014	0.302	SEE OVERLAP TABLE SHEETS 2, 3	OL 680				
				0580014	4.58	0.000	0.042	0.000	0.042	SEE OVERLAP TABLE SHEETS 2, 3	OL 877				
				2-T TOTAL	35.956	0.014	0.401	0.014	0.387						
3-T1	PSR DEVELOPMENT, LTD, AN OHIO LIMITED LIABILITY COMPANY	3	200405050031524	0617095	11.28	0	0.013	0	0.013					CONSTRUCTION ACCESS	OL 682
3-T2							0.002	0	0.002					CONSTRUCTION ACCESS	OL 682



NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

ALL TEMPORARY PARCELS TO BE OF 18 MONTH DURATION.



I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION IN 2004 BY BARR & PREVOST INC.

THE ESTABLISHMENT OF THE PROPERTY LINES AND EXISTING RIGHT OF WAY LINES SHOWN ON THIS PLAN AS OF THIS DATE WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

BY _____
SURVEYOR NO. S-5676 DATE JULY 11, 2005

BARR AND PREVOST
2800 CORPORATE EXCHANGE DR.
SUITE 240
COLUMBUS, OHIO 43231
(614) 714-0270

REV. BY	DATE	DESCRIPTION
DJH	07/18/05	REVISED OWNERS NAME, PCL'S 1, 2 & 3.
SJS	07/11/05	REVISED 2-T PN TO 0580014 (TYPO)
FIELD REVIEW BY	SJS & FDB	DATE: 5/24/2005
OWNERSHIP VERIFIED BY	SJS & FDB	DATE: 5/27/2005
DATE COMPLETED	5/27/2005	

FEDERAL PROJECT NO. E(033)671
PID NO. 23754
STATE JOB NO. 446950
R/W DESIGNER SJS
R/W REVIEWER FDB
SUMMARY OF ADDITIONAL RIGHT OF WAY
STA -30-(6.70), OF ADDITIONAL RIGHT OF WAY (11.57)
1/8
(120)
(127)

I:\Projects\23754_sta-30-6.03\Raw\STA_30_670_23754RS01.dgn 18-JUL-2005 7:57AM dhouckl

RIGHT OF WAY LINE DATA

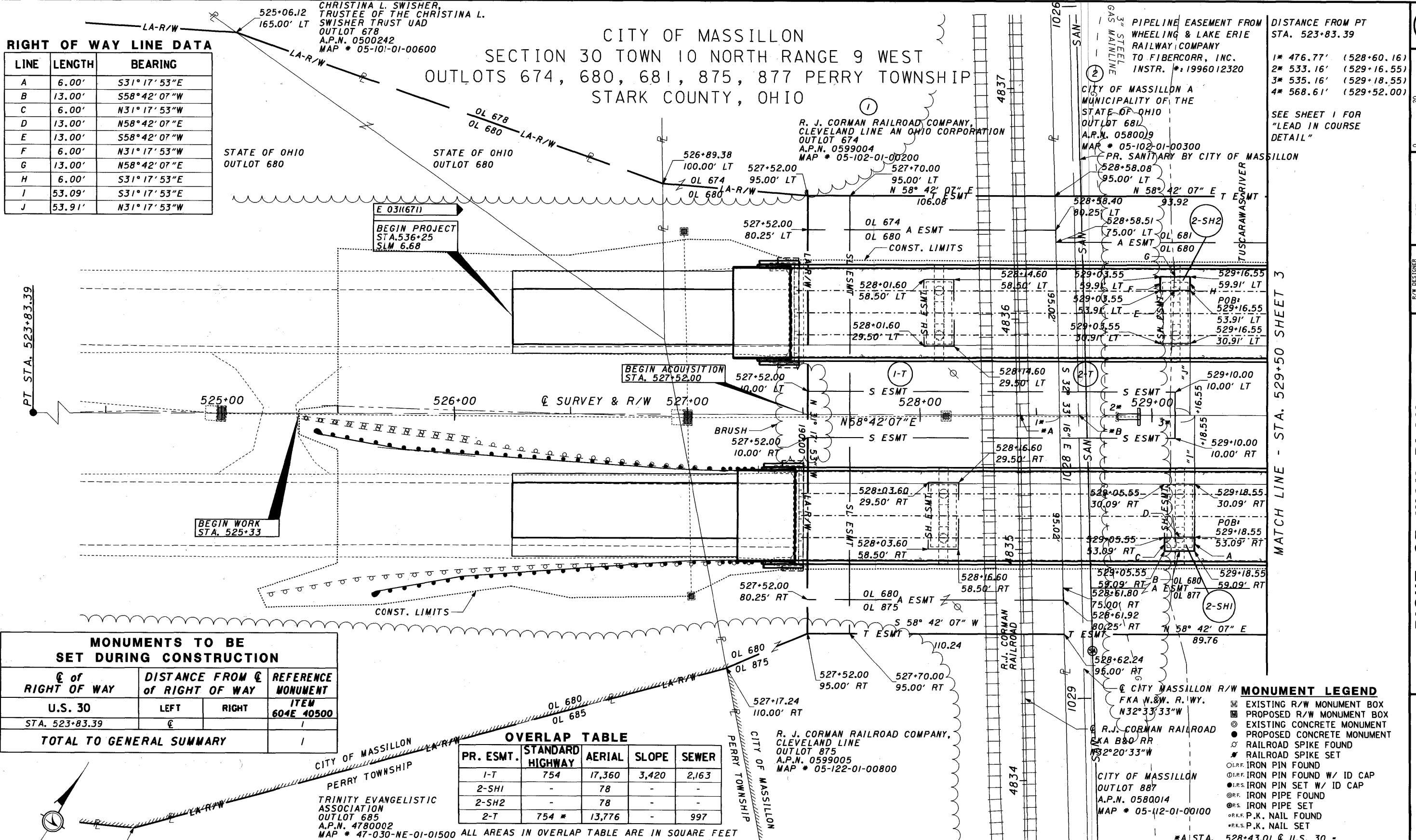
LINE	LENGTH	BEARING
A	6.00'	S31°17'53"E
B	13.00'	S58°42'07"W
C	6.00'	N31°17'53"W
D	13.00'	N58°42'07"E
E	13.00'	S58°42'07"W
F	6.00'	N31°17'53"W
G	13.00'	N58°42'07"E
H	6.00'	S31°17'53"E
I	53.09'	S31°17'53"E
J	53.91'	N31°17'53"W

CITY OF MASSILLON
SECTION 30 TOWN 10 NORTH RANGE 9 WEST
OUTLOTS 674, 680, 681, 875, 877 PERRY TOWNSHIP
STARK COUNTY, OHIO

DISTANCE FROM PT STA. 523+83.39

1*	476.77'	(528+60.16)
2*	533.16'	(529+16.55)
3*	535.16'	(529+18.55)
4*	568.61'	(529+52.00)

SEE SHEET 1 FOR "LEAD IN COURSE DETAIL"



MONUMENTS TO BE SET DURING CONSTRUCTION

C of RIGHT OF WAY	DISTANCE FROM C of RIGHT OF WAY		REFERENCE MONUMENT ITEM
	LEFT	RIGHT	
U.S. 30			604E 40500
STA. 523+83.39			1
TOTAL TO GENERAL SUMMARY			1

OVERLAP TABLE

PR. ESMT.	STANDARD HIGHWAY	AERIAL	SLOPE	SEWER
1-T	754	17,360	3,420	2,163
2-SH1	-	78	-	-
2-SH2	-	78	-	-
2-T	754 *	13,776	-	997

MONUMENT LEGEND

- ☐ EXISTING R/W MONUMENT BOX
- ▣ PROPOSED R/W MONUMENT BOX
- ⊙ EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- ⊕ RAILROAD SPIKE FOUND
- ✱ RAILROAD SPIKE SET
- ⊙ IRON PIN FOUND
- ⊙ IRON PIN FOUND W/ ID CAP
- ⊙ IRON PIN SET W/ ID CAP
- ⊙ IRON PIPE FOUND
- ⊙ IRON PIPE SET
- ⊙ P.K. NAIL FOUND
- ⊙ P.K. NAIL SET

*A STA. 528+43.01 C U.S. 30 - STA. 4835+58.50 C R.J. CORMAN RAILROAD
 *B STA. 528+68.16 C U.S. 30 - STA. 1027+77.00 C CITY OF MASSILLON

THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF RIGHT OF WAY.

ADJUSTABLE CENTERLINE MONUMENTS, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM 1.1 (REV. 4-18-03) OF THE OHIO DEPARTMENT OF TRANSPORTATION. THE PLACING OF THE MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO AND ARE TO BE SET, AS SHOWN BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION. ANY ALTERATIONS, WITH PRIOR APPROVAL OF THE OHIO DEPARTMENT OF TRANSPORTATION, SHALL BE NOTED AND O.D.O.T. SHALL BE NOTIFIED OF THE NEW LOCATIONS.

ALL AREAS IN OVERLAP TABLE ARE IN SQUARE FEET * INCLUDES EX. SH, 2-SH1, AND 2-SH2

BASIS FOR BEARINGS:

THE BASIS OF BEARINGS FOR THIS PROJECT WAS DETERMINED FROM A GPS SURVEY IN OBTAINING STATE PLANE COORDINATES (OHIO COORDINATE SYSTEM OF 1983, NORTH ZONE). THE BEARINGS ARE TO BE USED FOR ANGULAR MEASUREMENT ONLY AS DEED AND PLAT BEARINGS HAVE A DIFFERENT BASIS.

THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING THE STA-30-4.70 (1969) PLANS ON FILE WITH O.D.O.T. DISTRICT 4, AKRON, OHIO AND THE ASSOCIATED CENTERLINE PLAT RECORDED ON DECEMBER 19, 1966 IN PLAT BOOK 36, PAGES 105 - 106 AT THE STARK COUNTY RECORDERS OFFICE.

NOTES:

STATE OF OHIO HAS EX. EASEMENTS ON R.J. CORMAN RAILROAD PROPERTY PER VOL. 3485, PAGE 584.

STATE OF OHIO HAS EX. EASEMENTS ON CITY OF MASSILLON PROPERTY PER VOL. 3449, PAGE 340.

BALTIMORE & OHIO VALUATION MAP V122.4 SHEET 28 (NOW R.J. CORMAN RAILROAD)

N.Y.C.&ST.L.R.R.CO. VALUATION MAP BOOK 6, SHEET 28 (NOW CITY OF MASSILLON)

REV. BY	DATE	DESCRIPTION
DJH	7/18/05	REVISED OWNERS NAME, PCLS 1 & 2
DATE COMPLETED 5/27/2005		

RIGHT OF WAY PLAN
STA. 525+50 TO 529+50

PID NO. **23754**

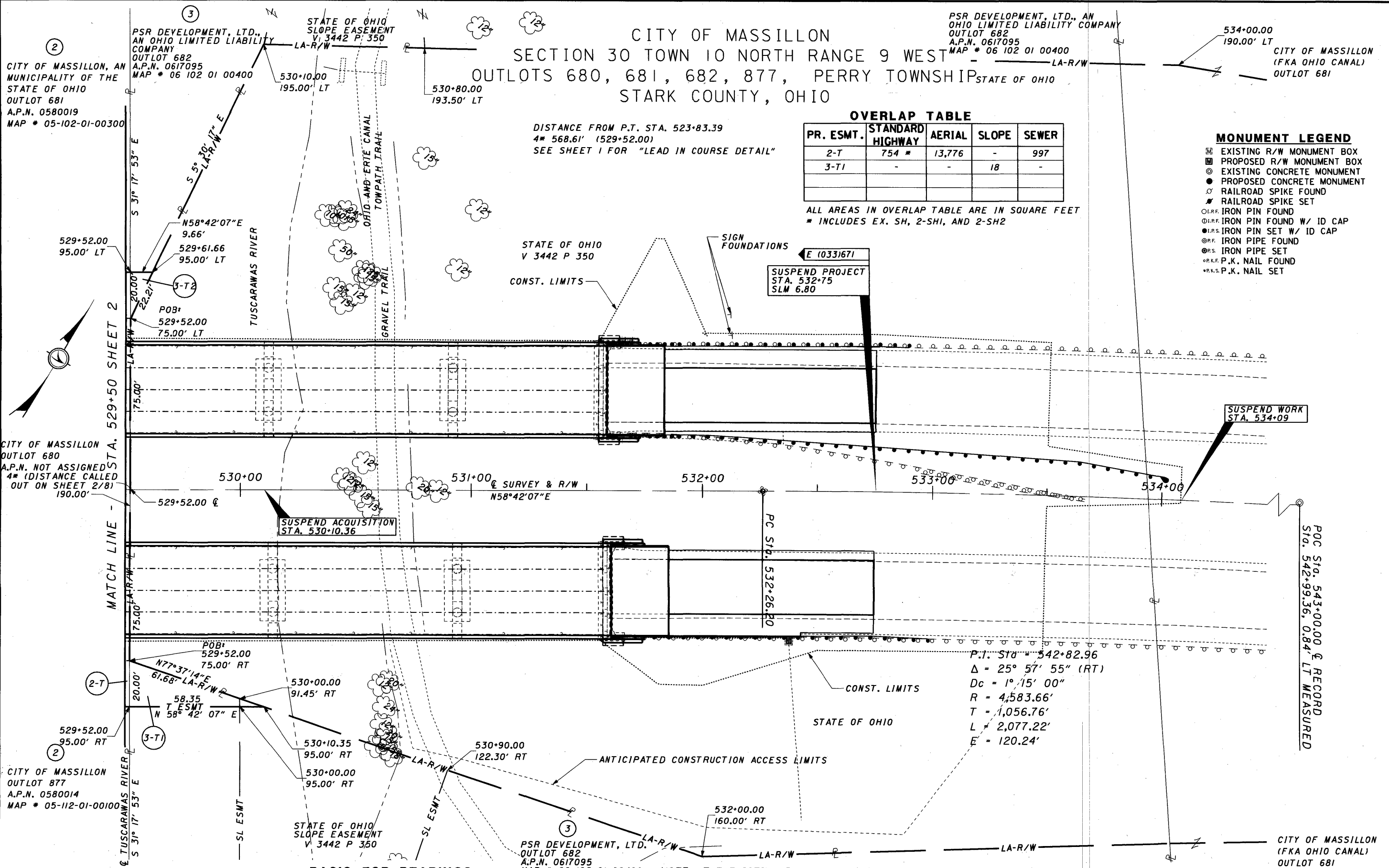
R/W DESIGNER: SJS
 R/W REVIEWER: FDB

STA-30-(6.70), (11.57)

2 / 8

121
127

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CITY OF MASSILLON
SECTION 30 TOWN 10 NORTH RANGE 9 WEST
OUTLOTS 680, 681, 682, 877, PERRY TOWNSHIP
STARK COUNTY, OHIO

PSR DEVELOPMENT, LTD., AN
 OHIO LIMITED LIABILITY COMPANY
 OUTLOT 682
 A.P.N. 0617095
 MAP # 06 102 01 00400

CITY OF MASSILLON, AN
 MUNICIPALITY OF THE
 STATE OF OHIO
 OUTLOT 681
 A.P.N. 0580019
 MAP # 05-102-01-00300

534+00.00
 190.00' LT
 CITY OF MASSILLON
 (FKA OHIO CANAL)
 OUTLOT 681

OVERLAP TABLE

PR. ESMT.	STANDARD HIGHWAY	AERIAL	SLOPE	SEWER
2-T	754 *	13,776	-	997
3-T1	-	-	18	-

ALL AREAS IN OVERLAP TABLE ARE IN SQUARE FEET
 * INCLUDES EX. SH, 2-SH1, AND 2-SH2

DISTANCE FROM P.T. STA. 523+83.39
 4* 568.61' (529+52.00)
 SEE SHEET 1 FOR "LEAD IN COURSE DETAIL"

- MONUMENT LEGEND**
- ☐ EXISTING R/W MONUMENT BOX
 - ▣ PROPOSED R/W MONUMENT BOX
 - EXISTING CONCRETE MONUMENT
 - PROPOSED CONCRETE MONUMENT
 - ⊙ RAILROAD SPIKE FOUND
 - ⊙ RAILROAD SPIKE SET
 - I.R.P.F. IRON PIN FOUND
 - I.R.P.S. IRON PIN SET W/ ID CAP
 - I.R.P.S. IRON PIN SET W/ ID CAP
 - I.R.P.F. IRON PIPE FOUND
 - I.R.P.S. IRON PIPE SET
 - P.K.F. P.K. NAIL FOUND
 - P.K.S. P.K. NAIL SET

CITY OF MASSILLON
 OUTLOT 680
 A.P.N. NOT ASSIGNED
 4* (DISTANCE CALLED
 OUT ON SHEET 2/8)
 190.00'

CITY OF MASSILLON
 OUTLOT 877
 A.P.N. 0580014
 MAP # 05-112-01-00100

SUSPEND PROJECT
 STA. 532+75
 SLM 6.80

SUSPEND WORK
 STA. 534+09

P.I. Sta. = 542+82.96
 $\Delta = 25^\circ 57' 55''$ (RT)
 $D_c = 1^\circ 15' 00''$
 $R = 4,583.66'$
 $T = 1,056.76'$
 $L = 2,077.22'$
 $E = 120.24'$

BASIS FOR BEARINGS.
 THE BASIS OF BEARINGS FOR THIS PROJECT WAS DETERMINED FROM A GPS SURVEY IN OBTAINING STATE PLANE COORDINATES (OHIO COORDINATE SYSTEM OF 1983, NORTH ZONE). THE BEARINGS ARE TO BE USED FOR ANGULAR MEASUREMENT ONLY AS DEED AND PLAT BEARINGS HAVE A DIFFERENT BASIS.

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING THE STA-30-4.70 (1969) PLANS ON FILE WITH O.D.O.T. DISTRICT 4, AKRON, OHIO AND THE ASSOCIATED CENTERLINE PLAT RECORDED ON DECEMBER 19, 1966 IN PLAT BOOK 36, PAGES 105 - 106 AT THE STARK COUNTY RECORDERS OFFICE.

REV. BY	DATE	DESCRIPTION
DJH	7/18/05	REVISED OWNER'S NAME, PCL 2 & 3
DATE COMPLETED 5/27/2005		

RIGHT OF WAY PLAN
STA. 529+50 TO 534+00

STA-30-(6.70),
(11.57)

3 / 8

122
127

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NOTES:

STATE OF OHIO HAS EX. EASEMENTS ON R.J. CORMAN RAILROAD PROPERTY PER VOL. 3485, PAGE 584.

BALTIMORE & OHIO VALUATION MAP V122.4 SHEET 28 (NOW R.J. CORMAN RAILROAD)

N.Y.C.&ST.L.R.R.CO. VALUATION MAP BOOK 6, SHEET 28 (NOW CITY OF MASSILLON)

RAILROAD STATIONS AND OFFSETS ARE IN (PARENTHESIS)

TRINITY EVANGELISTIC ASSOCIATION
OUTLOT 685
A.P.N. 4780002
MAP * 47-030-NE-01-01500

R. J. CORMAN RAILROAD COMPANY,
CLEVELAND LINE, AN OHIO CORPORATION
OUTLOT 875
A.P.N. 0599005
MAP * 05-122-01-00800

OVERLAP TABLE

PR. ESMT.	TOTAL AREA	STANDARD HIGHWAY	AERIAL	SLOPE	SEWER
1-T	20,550	754	17,360	3,420	2,163
2-T	17,450	598	13,776	-	997

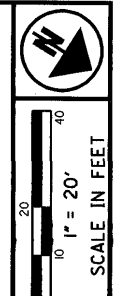
ALL AREAS IN OVERLAP TABLE ARE IN SQUARE FEET

R.J. CORMAN RAILROAD

STARK COUNTY
SECTION 30 TOWN 10 NORTH RANGE 9 WEST
OUTLOTS 675, 682, PERRY TOWNSHIP
CITY OF MASSILLON

CHRISTINA L. SWISHER,
TRUSTEE OF THE CHRISTINA L.
SWISHER TRUST UAD
FEBRUARY 2, 2004
INSTR. NO. 200402050007418

POINT	STATION	OFFSET
A	528+01.60	29.50' LT
B	528+01.60	58.50' LT
C	528+14.60	58.50' LT
D	528+14.60	29.50' LT
E	528+03.60	58.50' RT
F	528+03.60	29.50' RT
G	528+16.60	29.50' RT
H	528+16.60	58.50' RT



PID NO.
23754

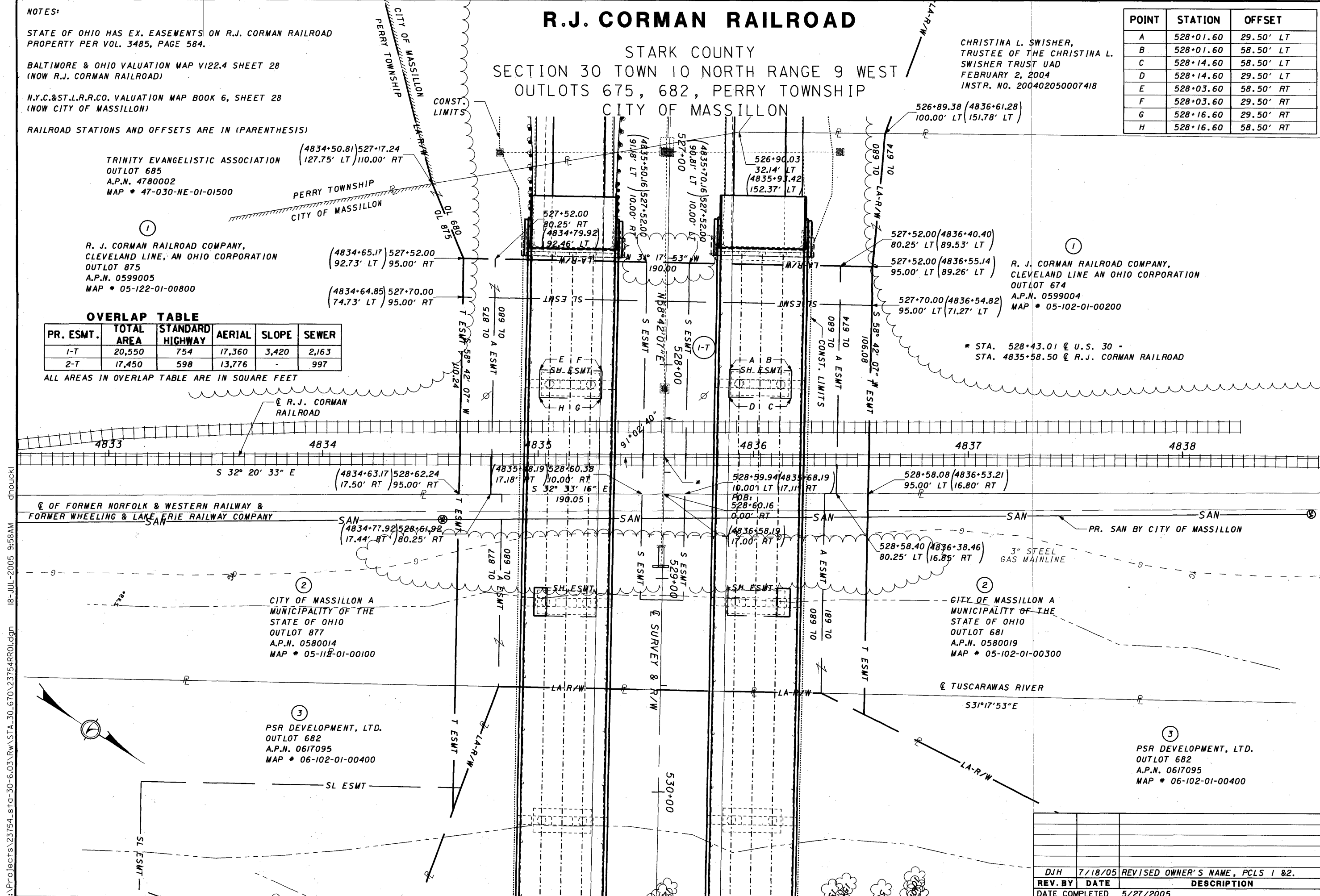
R/W DESIGNER
SJS
R/W REVIEWER
FDB

R.J. CORMAN RAILROAD

**STA-30-(6.70),
(11.57)**

4 / 8

123
127



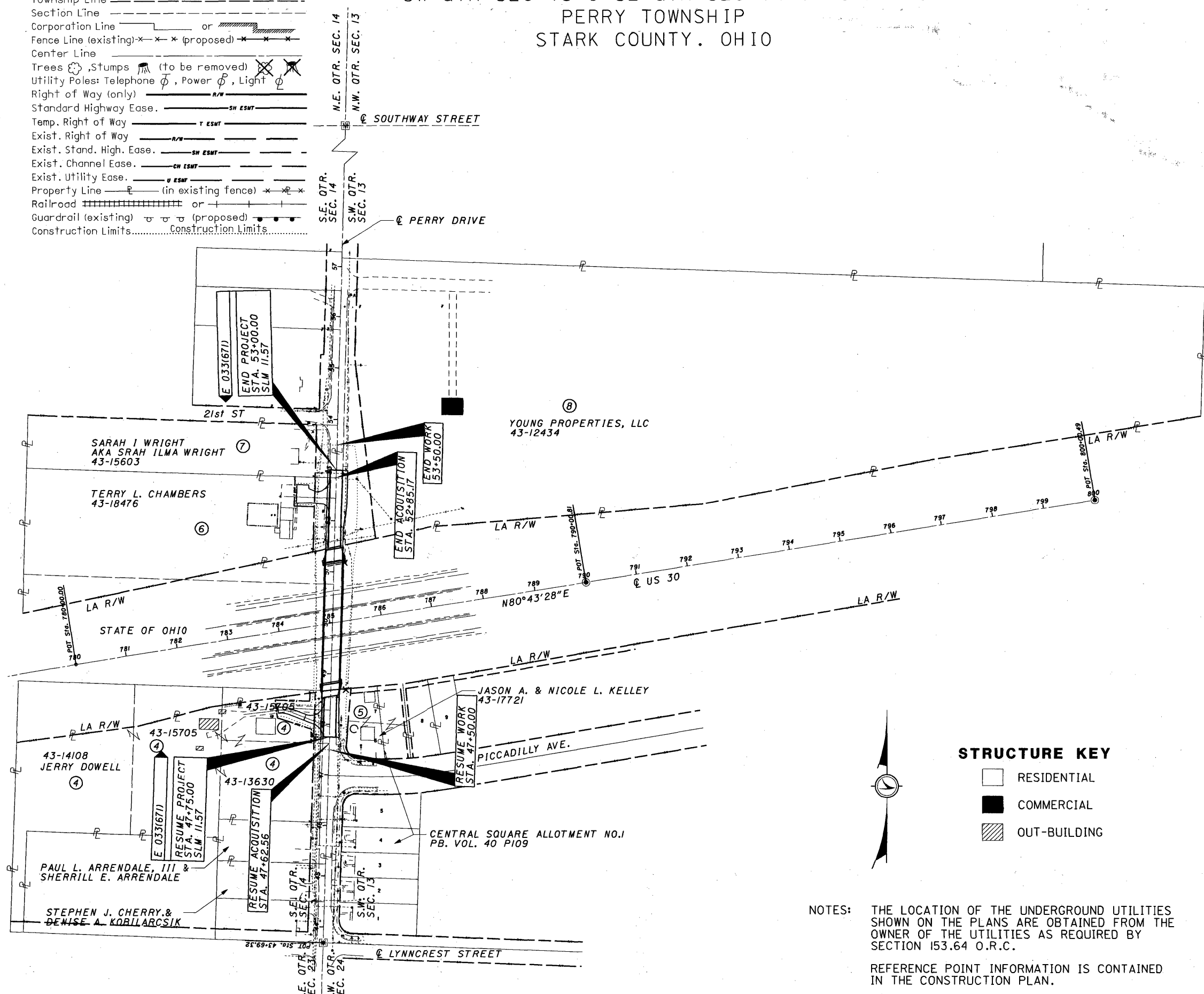
REV. BY	DATE	DESCRIPTION
DJH	7/18/05	REVISED OWNER'S NAME, PCLS 1 & 2.
	5/27/2005	

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CONVENTIONAL SIGNS

- County Line _____
- Township Line _____
- Section Line _____
- Corporation Line _____ or _____
- Fence Line (existing) - x - x - x (proposed) * - * - *
- Center Line _____
- Trees (to be removed) Stumps
- Utility Poles: Telephone , Power , Light
- Right of Way (only) _____ R/W
- Standard Highway Ease. _____ SH ESMT
- Temp. Right of Way _____ T ESMT
- Exist. Right of Way _____ R/W
- Exist. Stand. High. Ease. _____ SH ESMT
- Exist. Channel Ease. _____ CH ESMT
- Exist. Utility Ease. _____ U ESMT
- Property Line _____ (in existing fence) - x - x - *
- Railroad or _____
- Guardrail (existing) (proposed)
- Construction Limits..... Construction Limits.....

SW QTR SEC 13 & SE QTR SEC 14 T 10 N R 9 E
PERRY TOWNSHIP
STARK COUNTY, OHIO



STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

REFERENCE POINT INFORMATION IS CONTAINED IN THE CONSTRUCTION PLAN.

AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANNA, OHIO 43230-6605
ATTN: TONY PURSES
(614) 552-1183
(614) 552-1818 (FAX)

AQUA OHIO (CLEAR)
870 3RD STREET
MASSILLON, OHIO 44647
ATTN: DON SNYDER
(330) 833-4156 X205

CANTON WATER DEPARTMENT
ENGINEERING DEPARTMENT
P.O. BOX 7904
CANTON, OHIO 44705
ATTN: LEWIS MILLER
(330) 489-3310
(330) 489-3073 (FAX)

CITY OF MASSILLON
ENGINEERING DEPARTMENT
151 LINCOLN WAY EAST
MASSILLON, OHIO 44646
ATTN: GREG McCUE
(330) 830-1722

DOMINION EAST OHIO
4725 SOUTHWAY STREET, SW
CANTON, OHIO 44706
ATTN: KATE QUILLIN
(330) 478-3135
(330) 478-3157 (FAX)

GREAT LAKES ENERGY PARTNERS, L.L.C.
P.O. BOX 550
HARTVILLE, OHIO 44632-0550
ATTN: SUE BARCLAY
(330) 877-6747
(330) 877-6129 (FAX)

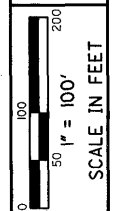
MASSILLON CABLE
P.O. BOX 814
MASSILLON, OHIO 44648
ATTN: NEAL TRAVIS
(330) 833-4134
(330) 833-7522 (FAX)

NORTHERN INDUSTRIAL ENERGY
DEVELOPMENT, INC.
5900 MAYFAIR ROAD NW
NORTH CANTON, OHIO 44720
ATTN: FRANK STAUFFER
(330) 498-9130
(888) 863-0032
(330) 498-9137 (FAX)

SBC
50 W. BOWERY STREET
4TH FLOOR
AKRON, OHIO 44308
ATTN: RICK LAGRANGE
(330) 384-8057
(330) 384-8879 (FAX)

STARK COUNTY METROPOLITAN SEWER DISTRICT
1701 MAHONING ROAD, NE
P.O. BOX 7906
CANTON, OHIO 44705-7906
ATTN: JIM JONES
(330) 451-2314
(330) 453-9044 (FAX)

TIME WARNER CABLE
1655 BRITAIN ROAD
AKRON, OHIO 44310
ATTN: CHARLIE TONEY
(330) 630-7950
(330) 633-2342 (FAX)



PID NO.
23754

R/W DESIGNER
R/W REVIEWER

PROPERTY MAP

**STA-30-(6.70),
(11.57)**

5 / 8

REV. BY	DATE	DESCRIPTION
SJS	7/11/05	MOVED DRIVE, REV. 4-T, DELETED 4-WD
DATE COMPLETED 5/27/2005		

124
127

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD		AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED INSTRUMENT #
			BOOK	PAGE								LEFT	RIGHT			
4-T	JERRY DOWELL	7	3754 4164	948 245	43-15705	1.32	0.071	0.085	0.000	0.085	NO			▲	TRACT 2, RELOCATE DRIVE	
		7	3754 1998012315	948	43-14108	1.114	0.012				NO					
			3965 1998012314	347	43-13630	0.75	0.108				NO				TRACT 2	
GRAND TOTAL						3.184	0.191	0.006	0.000	0.006						
5	JASON A. AND NICOLE L. KELLEY	7	200411150080678		43-17721	0.198	0	NO TAKE		NO TAKE	NO				PORTION OF LOT 6 & 7, 164' OF 6' SOLID WOOD FENCE *	
6-T	TERRY L. CHAMBERS	8	2001030345		43-18476	2.94	0.133	0.052		0.052				STATE	RECONSTRUCT DRIVE	
7	SARAH I WRIGHT AKA SARAH ILMA WRIGHT	8	OR 799 1109	330 514	43-15603	1.4485	0.098	NO TAKE		NO TAKE	NO					
8	YOUNG PROPERTIES, LLC	8	19980084797		43-12434	16.00	0.598	NO TAKE		NO TAKE	NO					

NOTES:

- 1) ALL TEMPORARY PARCELS TO BE OF 18 MONTH DURATION.
- 2) UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- 3) * DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION
SJS	7/11/05	REVISED 4-T, DELETED 4-WD
FIELD REVIEW BY	SJS & FDB	DATE: 5/24/2005
OWNERSHIP VERIFIED BY	SJS & FDB	DATE: 5/27/2005
DATE COMPLETED		5/27/2005

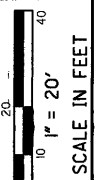
FEDERAL PROJECT NO. E 033(6711)
 PID NO. 23754
 STATE JOB NO. 446950
 SJS FDB
 SUMMARY OF ADDITIONAL RIGHT OF WAY
 STA-30-(6.70), (11.57)
 6/8

125
127

BASIS FOR BEARINGS:
 THE BASIS OF BEARINGS FOR THIS PROJECT WAS DETERMINED FROM A GPS SURVEY IN OBTAINING STATE PLANE COORDINATES (OHIO COORDINATE SYSTEM OF 1983, NORTH ZONE). THE BEARINGS ARE TO BE USED FOR ANGULAR MEASUREMENT ONLY AS DEED AND PLAT BEARINGS HAVE A DIFFERENT BASIS.

SW QTR 13 & SE QTR. SEC. 14, T 10 N, R 9 E
 PERRY TOWNSHIP
 STARK COUNTY, OHIO

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING THE STA-30-7.64 (1971) PLANS ON FILE WITH O.D.O.T. DISTRICT 4, AKRON, OHIO AND THE ASSOCIATED CENTERLINE PLAT RECORDED MAY 13, 1969 IN PLAT BOOK 38, PAGES 63 - 66 AT THE STARK COUNTY RECORDERS OFFICE.



PTD NO. **23754**

R/W DESIGNER: SJS
 R/W REVIEWER: FDB

**RIGHT OF WAY PLAN PERRY DRIVE
 STA. 45+00 TO STA. 50+00**

**STA-30-(6.70),
 (11.57)**

7 / 8

REV. BY	DATE	DESCRIPTION
SJS	7/11/05	MOVED DRIVE, REV. 4-T, DELETED 4-WD
DATE COMPLETED		5/27/2005

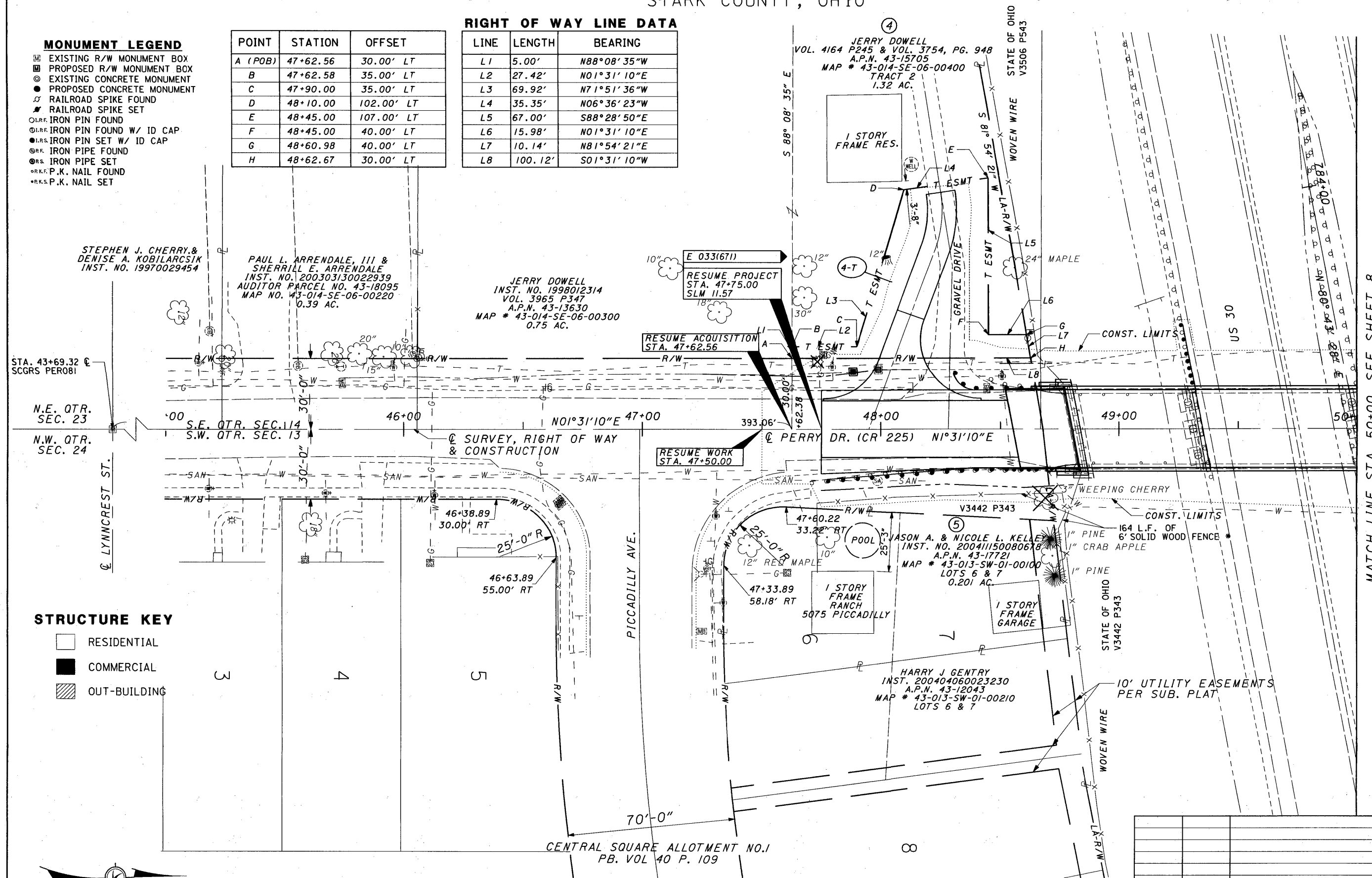
MONUMENT LEGEND

- ▣ EXISTING R/W MONUMENT BOX
- ▣ PROPOSED R/W MONUMENT BOX
- ⊙ EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- ⚡ RAILROAD SPIKE FOUND
- ⚡ RAILROAD SPIKE SET
- ⊙ I.R.P.F. IRON PIN FOUND
- ⊙ I.R.P.F. IRON PIN FOUND W/ ID CAP
- ⊙ I.R.S. IRON PIN SET W/ ID CAP
- ⊙ I.R.P. IRON PIPE FOUND
- ⊙ I.R.S. IRON PIPE SET
- ⊙ R.K.F. P.K. NAIL FOUND
- ⊙ R.K.S. P.K. NAIL SET

POINT	STATION	OFFSET
A (POB)	47+62.56	30.00' LT
B	47+62.58	35.00' LT
C	47+90.00	35.00' LT
D	48+10.00	102.00' LT
E	48+45.00	107.00' LT
F	48+45.00	40.00' LT
G	48+60.98	40.00' LT
H	48+62.67	30.00' LT

RIGHT OF WAY LINE DATA

LINE	LENGTH	BEARING
L1	5.00'	N88°08'35"W
L2	27.42'	N01°31'10"E
L3	69.92'	N71°51'36"W
L4	35.35'	N06°36'23"W
L5	67.00'	S88°28'50"E
L6	15.98'	N01°31'10"E
L7	10.14'	N81°54'21"E
L8	100.12'	S01°31'10"W



STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- ▨ OUT-BUILDING

MATCH LINE STA. 50+00, SEE SHEET 8

STEPHEN J. CHERRY &
 DENISE A. KOBILARCSIK
 INST. NO. 19970029454

PAUL L. ARRENDALE, III &
 SHERRILL E. ARRENDALE
 INST. NO. 200303130022939
 AUDITOR PARCEL NO. 43-18095
 MAP NO. 43-014-SE-06-00220
 0.39 AC.

JERRY DOWELL
 INST. NO. 1998012314
 VOL. 3965 P347
 A.P.N. 43-13630
 MAP # 43-014-SE-06-00300
 0.75 AC.

JERRY DOWELL
 VOL. 4164 P245 & VOL. 3754, PG. 948
 A.P.N. 43-15705
 MAP # 43-014-SE-06-00400
 TRACT 2
 1.32 AC.

JASON A. & NICOLE L. KELLE
 INST. NO. 20041150080678
 A.P.N. 43-17721
 MAP # 43-013-SW-01-00100
 LOTS 6 & 7
 0.201 AC.

HARRY J. GENTRY
 INST. 200404060023230
 A.P.N. 43-12043
 MAP # 43-013-SW-01-00210
 LOTS 6 & 7

STA. 43+69.32
 SCGRS PER081

N.E. QTR. SEC. 23
 N.W. QTR. SEC. 24

S.E. QTR. SEC. 14
 S.W. QTR. SEC. 13

SURVEY, RIGHT OF WAY & CONSTRUCTION

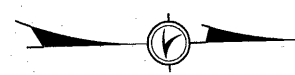
RESUME ACQUISITION
 STA. 47+62.56

RESUME WORK
 STA. 47+50.00

PERRY DR. (CR 225) N1°31'10"E

PICCADILLY AVE.

CENTRAL SQUARE ALLOTMENT NO. 1
 PB. VOL 40 P. 109



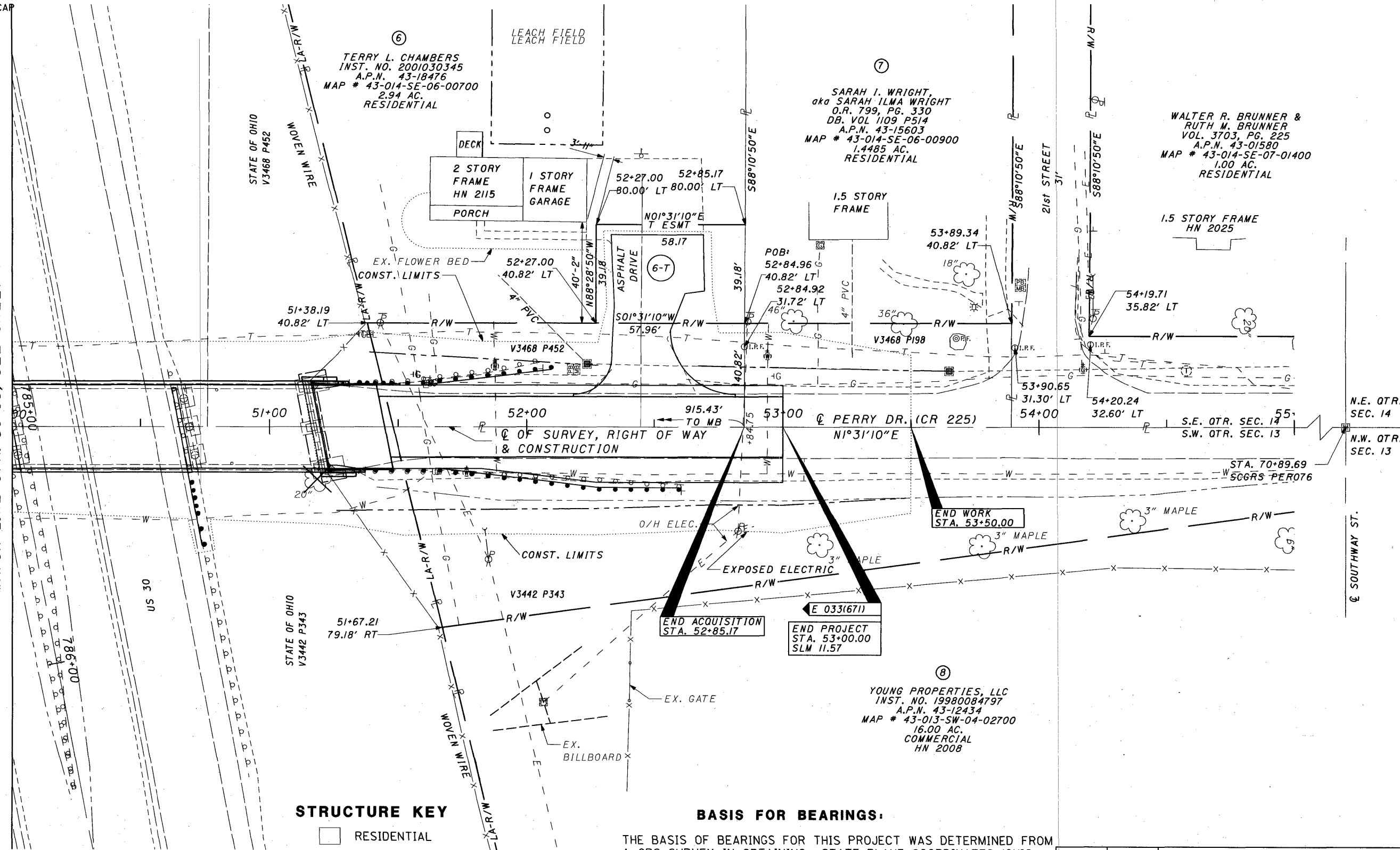
MONUMENT LEGEND

- ◻ EXISTING R/W MONUMENT BOX
- ◻ PROPOSED R/W MONUMENT BOX
- ⊙ EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- ⊙ RAILROAD SPIKE FOUND
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- ⊙ P.K.F. P.K. NAIL FOUND
- ⊙ P.K.F. P.K. NAIL SET

SW QTR SEC 13 & SE QTR. SEC. 14, T 10 N, R 9 E
PERRY TOWNSHIP
STARK COUNTY, OHIO

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING THE STA-30-7.64 (1971) PLANS ON FILE WITH O.D.O.T. DISTRICT 4, AKRON, OHIO AND THE ASSOCIATED CENTERLINE PLAT RECORDED MAY 13, 1969 IN PLAT BOOK 38, PAGES 63 - 66 AT THE STARK COUNTY RECORDERS OFFICE.

MATCH LINE STA. 50+00, SEE SHEET 7



STRUCTURE KEY

- ◻ RESIDENTIAL
- COMMERCIAL
- ▨ OUT-BUILDING

BASIS FOR BEARINGS:

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SCALE IN FEET
1" = 20'

PID NO. **23754**

R/W DESIGNER SJS
R/W REVIEWER FDB

**RIGHT OF WAY PLAN - PERRY DR.
STA. 50+00 TO STA. 55+00**

**STA-30-(6.70),
(11.57)**

8 / 8

127
127

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 5/27/2005