NONE

-FEDERAL

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2545

LOCATION MAP

SCALE IN MILES

PORTION TO BE IMPROVED_______
INTERSTATE & DIVIDED HIGHWAY_____
UNDIVIDED STATE & FEDERAL ROUTES_____
OTHER ROADS_____

DESIGN FUNCTIONAL CLASSIFICATION-

URBAN ARTERIAL

LONGITUDE: 81º31'22"

LATITUDE: 40°47'47"

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

STA-241-7.94

CITY OF MASSILLON STARK COUNTY

INDEX OF SHEETS:

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PROJECT DESCRIPTION

IMPROVEMENT OF 2.45 MILES OF S.R. 241 BY PLANING AND RESURFACING, INCLUDING PAVEMENT MARKING AND CURB REPAIR.

EARTH DISTURBED AREAS

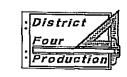
PROJECT EDA - 0.00 ACRES
EST. CONTRACTOR EDA - N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EDA - N/A (MAINTENANCE PROJECT)

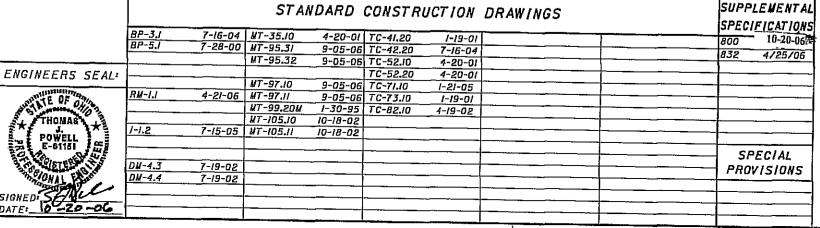
2005 SPECIFICATIONS

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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDERGROUND UTILITIES TWO WORKING DAYS CALL I-800-352-2764 (TOLL FREE) OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

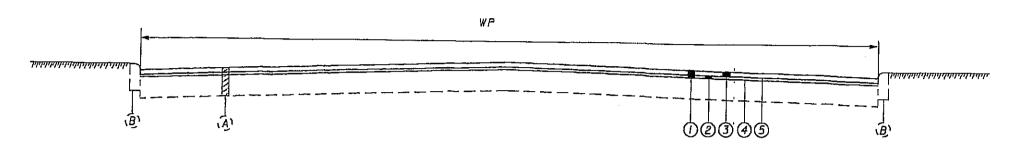




DATE 10-23 06 DISTRICT DEPUTY DIRECTOR

APPROVED TO THE TOP OF TRANSPORTATION





	SEC	TION AF	PPLIES	
	SI	.M	Length	WP
Route	From	To	(Miles)	(Feet)
241	7.94	8.86	0.92	47
241	8.86	8.96	0.10	60
	TOTAL		1.02	

LEGEND

- 1 254, 2" PAVEMENT PLANING
- 2 448, 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22
- 3 424, 4" FINE GRADED POLYMER ASPHALT CONCRETE, TYPE A
- 4 407, TACK COAT
- 5 407, TACK COAT FOR INTERMEDIATE COURSE

(A) EXISTING ASPHALT PAVEMENT

(B) EXISTING CURB

NOTES: WP IS THE AVERAGE WIDTH OF PAVEMENT EXCLUDING, TWO WAY LEFT TURN LAMES, MEDIANS, AND ONE WAY TURN LANES. STA-241-7

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 I-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. PROVIDE THE INSTALLATION AND OPERA-TION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONVERSION OF STANDARD CONSTRUCTION DRAWINGS

CONVERT THE METRIC STANDARD DRAWINGS REFERENCED IN THIS PLAN TO ENGLISH UNITS USING THE SI (METRIC) TO ENGLISH CONVERSION FACTORS PROVIDED IN SECTION 109.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

CONVERSIONS WILL BE APPROPRIATELY PRECISE AND 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, WETLANDS OR STREAMS, UNLESS THE REQUIRED STATE AND/OR FEDERAL PERMITS HAVE BEEN OBTAINED IN ACCORDANCE WITH 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 SUM-MARY 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.

ITEM SPECIAL: MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. IT SHALL BE THE CONTRACTOR'S GRADING, OR FILLING OPERATIONS SHALL BE PERFORMED IN ANY RESPONSIBILITY TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR ALL APPLICABLE STATE AND/OR FEDERAL LAWS AND REGULATIONS. THE SPECIFICATIONS AND SHALL HAVE THE PRIOR APPROVAL OF THE STRUCTURE IN QUESTION. ALL MATERIAL SHALL MEET ITEM 604 OF ENGINEER.

> THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

SPECIAL, MISCELLANEOUS METAL 500 POUNDS

THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE, AND REPLACEMENT OF ALL EXISTING CASTINGS. CASTINGS DAMAGED BY THE NEGLIGENCE OF THE CONTRACTOR, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED WITH THE PROPER NEW CASTINGS AT THE EXPENSE OF THE CONTRACTOR,

CURB RAMPS

CURB RAMPS AND TRUNCATED DOMES SHALL BE CONSTRUCTED ACCORDING TO THE PLAN INSERT SHEETS TITLED CURB RAMPS WITH TRUNCATED DOMES AT EVERY EXISTING ROAD INTERSECTION WITH CURBS. TRUNCATED DOMES WILL BE INSTALLED AT EVERY EXISTING ROAD INTERSECTION WITH SIDEWALK, EVEN IF THERE IS NO CURB.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, CURB RAMPS SHALL BE PERFORMED PRIOR TO MAINLINE RESURFACING.

THERE ARE AN ESTIMATED 48 LOCATIONS WITHIN THE PROJECT LIMITS REQUIRING CURB RAMPS WITH TRUNCATED DOMES TO BE

THERE ARE AN ESTIMATED 3 SIDEWALK LOCATIONS WITHIN THE PROJECT LIMITS REQUIRING THE INSTALLATION OF TRUNCATED DOMES.

PAYMENT:

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ITEM 202 - WALK REMOVED (FT), A QUANTITY OF 3264 SQ FT WILL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 202 - CURB REMOVED (FT), A QUANTITY OF 529 FT WILL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 608 - CURB RAMP, AS PER PLAN (SQ FT) SHALL INCLUDE THE COST OF FINISHING AND INSTALLING ALL MATERIALS (EXCEPT TRUNCATED DOMES), GRADING, FORMING, CURB AND FINISHING OF THE CURB AND WALK. A QUANTITY OF 2805 SQ FT WILL BE CARRIED TO THE GENERAL SUMMARY.

ITEM 608 - WALKWAY MISC. TRUNCATED DOMES (SO FT)
SHALL INCLUDE THE COST OF FINISHING AND INSTALLING
TRUNCATED DOMES INCLUDING ALL MATERIALS, FORMING,
AND FINISHING. A QUANTITY OF 454 SO FT WILL BE
CARRIED TO THE GENERAL SUMMARY.

ITEM 604 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN

GRADE RINGS SHALL NOT BE USED TO ADJUST MANHOLES TO GRADE. ALL OTHER REQUIREMENTS SHALL STILL BE APPLICABLE.

ITEM 604 MANHOLE ADJUSTED TO GRADE, AS PER PLAN 2 EACH

ITEM 604 - CATCH BASIN ADJUSTED TO GRADE

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED, CARRIED TO THE GENERAL SUMMARY, AND SHALL BE USED AS DIRECTED BY THE

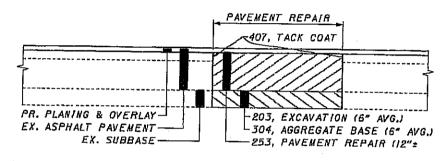
ITEM 604 CATCH BASIN ADJUSTED TO GRADE

2 EACH

ITEM 253 - PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THIS ITEM SHALL CONSIST OF CUTTING AND REMOVING DETERIORATED PAVEMENT FULL DEPTH AND PLACING 12" ± 301 ASPHALT CONCRETE BASE, PG64-22. THE MAXIMUM COMPACTED DEPTH OF ANY ONE LAYER SHALL BE 6 INCHES. 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. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED, PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SOUARE YARDS OF PAVEMENT REMOVED AND REPLACED TO THE LIMITS DESIGNATED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

253, PAVEMENT REPAIR, 100 SQ YD



ITEM 203 - EXCAVATION

THIS ITEM OF WORK SHALL CONSIST OF REMOVING AND DISPOSING OF ALL UNSUITABLE MATERIAL BY EXCAVATING THE EXISTING SUBGRADE AND SUBBASE TO AN AVERAGE DEPTH OF 6 INCHES OR AS DIRECTED BY THE ENGINEER. EXACT LIMITS OF REMOVAL SHALL BE DETERMINED BY THE ENGINEER. ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203 EXCAVATION. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: 203. EXCAVATION . 17 CU. YD.

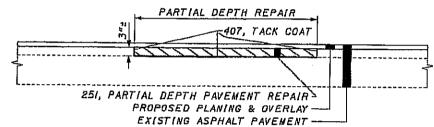
ITEM 304 - AGGREGATE BASE

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER TO BACKFILL AREAS WHICH WERE EXCAVATED UNDER ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: 304, AGGREGATE BASE

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 448 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE I PHEUMATIC 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. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

251, PARTIAL DEPTH PAVEMENT REPAIR, 100 SQ. YD.



WAINTENANCE 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:

I. A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED FOR TWO LANE SECTIONS AND A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED FOR THREE OR MORE LANE SECTIONS ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

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.

6. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED.

7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE FERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS ONE [I] MILE.

8. NO WORK SHALL BE PERFORMED BETWEEN JOPM AND GAM DAILY.

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, CENTER, CHANNELIZING, AND STOP LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. OUANTITIES FOR SUCH REPLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.

IO. A QUANTITY OF 20 CU. YOS. 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.

II. 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.

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MAINTENANCE OF TRAFFIC (CONTINUED)

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* WB-I [BUMP], W6-3 [TWO-WAY TRAFFIC], W8-II [UNEVEN LANES SYMBOL]. THESE QUANTITES SHALL BE AS PER 614.04.

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

PLANED SURFACE

ITEH ITEH ITEH	614 614 614	WORK WORK WORK	ZONE ZONE ZONE	CENTER LINE, CLASS I) LANE LINE, CLASS II CHANNELIZING LINE, CLASS I STOP LINE CLASS I, MARKING SIGN (ALL PHASES)	0.06 900 363	
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INTERMEDIATE COURSE

ITEH	614 1	WORK	ZONE	CENTER LINE, CLASS II	1.02	MILE
ITEM	6/4 V	NORK -	ZONE	LANE LINE. CLASS II		WILE
ITEN	614 V	NORK	ZONE	CHANNELIZING LINE, CLASS I	900	
ITEM	614 V	NORK	ZONE	STOP LINE CLASS I,	363	FΤ

SURFACE COURSE

ITEM 614 WOR	K ZONE CENTER LINE, CLASS II	1.02 MILE
ITEM 614 WOR	K ZONE LANE LINE, CLASS II	0.06 MILE
ITEM 614 WOR	RK ZONE CHANNELIZING LINE, CLASS I	900 FT
ITEM 614 WOR	TK ZONE STOP LINE CLASS I,	363 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.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

A OUALIFIED 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. THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE RIGHNEER. WHEN 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.

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.

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.

WINTER TRAFFIC LIMITATIONS

ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND APRIL I. NOVEMBER 14 SHALL BE CONSIDERED TO CONSTITUTE AN INTERIN 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 I WITH WRITTEN APPROVAL FROM THE DISTRICT CONSTRUCTION ENGINEER.

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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 DE-PENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

THE WEEK

TIME ALL LANES MUST BE OPEN TO TRAFFIC

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY

12:00N FRIDAY THROUGH 12:00N MONDAY 12:00N FRIDAY THROUGH 12:00N TUESDAY 12:00N MONDAY THROUGH 12:00N WEDNESDAY 12:00N TUESDAY THROUGH 12:00N THURSDAY 12:00N WEDNESDAY THROUGH 12:00N MONDAY 12:00N THURSDAY THROUGH 12:00N MONDAY 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 REQUIRE-MENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07.

LOOP DETECTOR REPLACEMENT

THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE (330-786-3146) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE INTERSECTIONS LISTED BELOW. LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED SURFACE COURSE HAS BEEN PLACED. EACH DETECTOR SHALL BE REPLACED IN KIND, AT THE SAME LOCATION AS EXISING. THE OUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE POURED EPOXY TYPE CABLE SPLICE KIT CONFORMING TO 725.15E THAT MUST BE USED IN MAKING THESE CONNECTIONS.

ALL NECESSARY MATERIAL, LABOR, SPLICE KITS AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE ITEMS.

ITEM 632 DETECTOR LOOP

2 EACH

SR 241 (LINCOLN WAY)

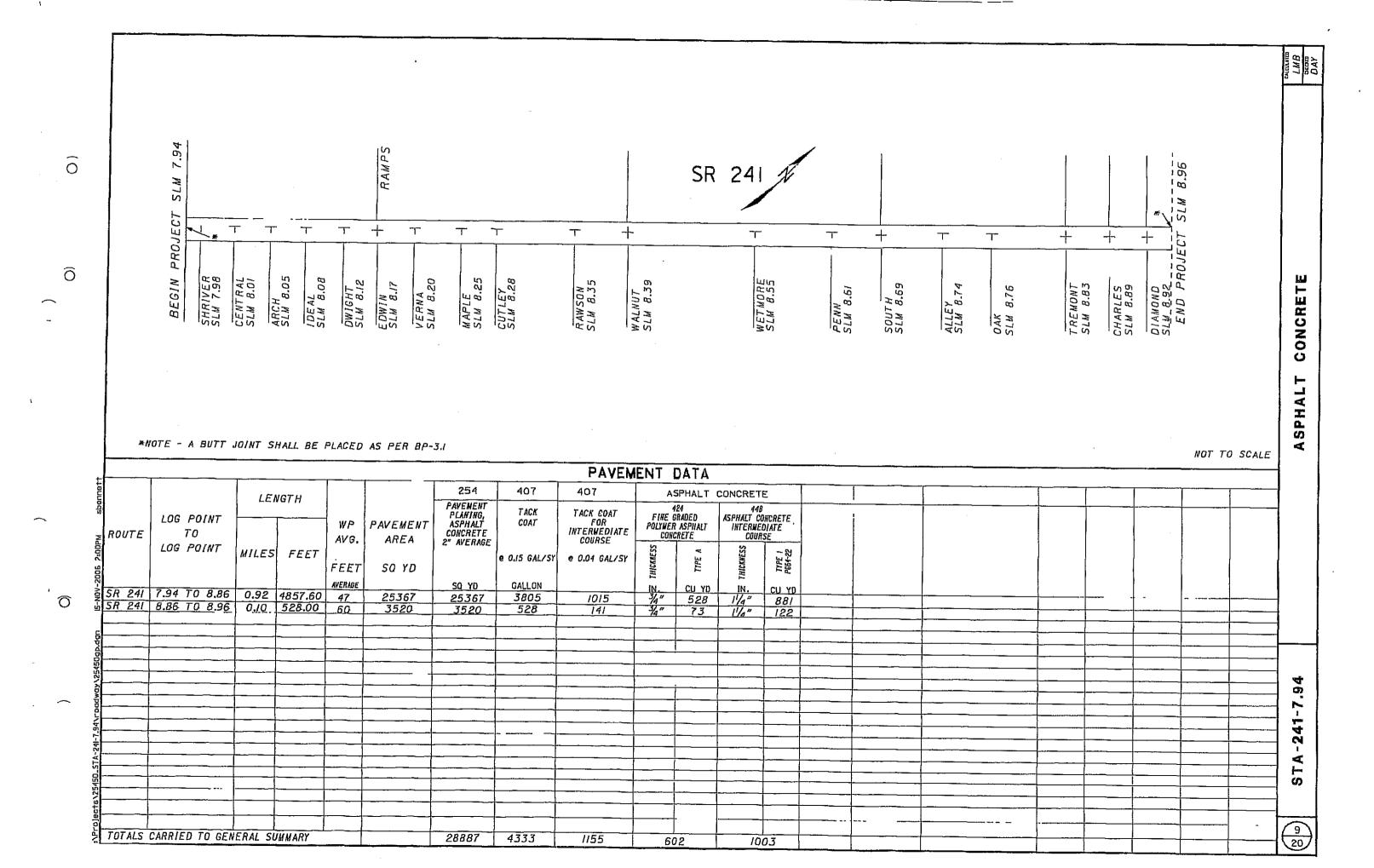
2 EACH, 8'x30'

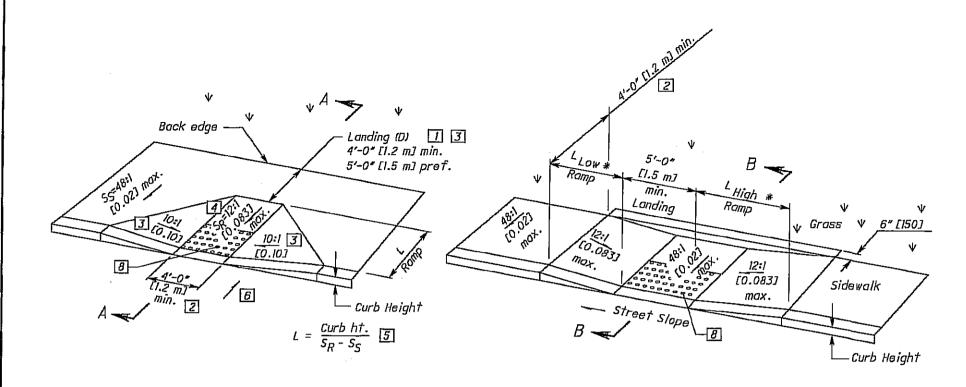
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SHEET NUMBER PARTICIPATION ITEM GRAND ITEM UNIT DESCRIPTION 5 EXT. TOT AL PROJECT 100% CITY MAINTENANCE OF TRAFFIC 614 12460 EACH WORK ZONE MARKING SIGN 20 0.18 13000 20400 20 0.18 20 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 0.18 6/4 MILE WORK ZONE LANE LINE, CLASS !! 3.06 3.06 614 3.06 21400 MILE WORK ZONE CENTER LINE, CLASS II 2700 2700 2700 614 23000 FT WORK ZONE CHANNELIZING LINE, CLASS I 1089 1089 614 26000 1089 FT WORK ZONE STOP LINE, CLASS I SUMMARY LUMP 614 11000 LUMP MAINTAINING TRAFFIC 3 619 16010 3 MONTH FIELD OFFICE, TYPE B LUMP 623 10000 LUMP CONSTRUCTION LAYOUT STAKES LUMP 624 10000 LUMP MOBILIZATION GENERAL

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Ramp Length @ 1"/ft [0.083] Street Slope LLOW SIDE* LHIGH SIDE * 0.01 5'-5**"** [1.6 m] 6'-10" [2.1 m] 0.02 4'-10" [1.5 m] 7'-11" [2.4 m]0.03 4'-5" [1.3 m] 9'--5" [2.9 m] 0.04 [1.2 m] 11'-8" [3.6 m] 0.05 3'-9* [l.l m] 15'-2" [4.6 m] * Measured along the back of a 6" [150] high curb.

L HIGH = Curb ht.

0.083 - Street Slope 7

 $L LOW = \frac{Curb ht.}{0.083 + Street Slope}$

See Sht. 3 of 3 for SECTION A-A
PERPENDICULAR CURB RAMP DETAIL

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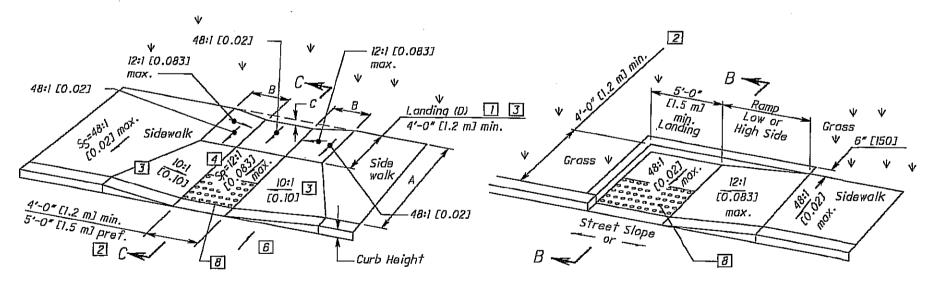
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See Sht. 3 of 3 for SECTION B-B

PARALLEL CURB RAMP DETAIL

(DOUBLE)



See Sht. 3 of 3 for SECTION C-C

COMBINED CURB RAMP DETAIL

B = C / 0.083 $C = [Curb \ ht + A(S_S)] - [(A-D)S_R + D(0.02)]$ See Sht. 3 of 3 for SECTION B-B

PARALLEL CURB RAMP DETAIL

(SINGLE)

LEGEND

- May be reduced to 3'-0" [915] in existing sidewalks if the landing is unconstrained along the back edge.
- 2 May be reduced to 3'-4" [1.02 m] in existing sidewalks to better fit the walk configuration or where site conditions are restricted by narrow walks, pole foundations, drainage inlets, etc. The width may be tapered.
- 3 Where landing width (D) has been reduced to 3'-0" [915] the flared sides shall have a maximum slope of 12:1 [0.083].

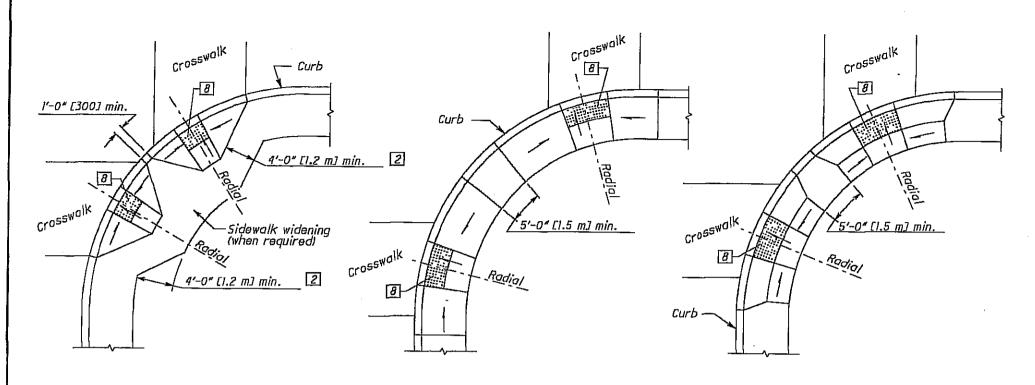
Flared sides are not required where the edges of a curb ramp are protected by landscaping or other barriers to travel by wheel chair users or pedestrians across the edge of the curb ramp. However, if the flared sides are used in these areas, they may be of any slope.

The slope of the ramp toward the curb is preferred to be 12:1 [0.083] or flatter related to the horizontal, but the maximum slope shall be 12:1 [0.083] relative to the existing or proposed walk slope.

In existing sidewalks, where the maximum ramp slope (S_R) is not feasible, it may be reduced as follows:

- A) 10:1 [0.10] for a max. rise of 6" [150], B) 8:1 [0.125] for a max. rise of 3" [75],
- C) 6:1 [0.167] over a max. run of 2'-0" [6:10] for historic areas where a flatter slope is not feasible.
- The minimum length of a perpendicular ramp is 6' [2.0 m]
 from the back of a 6" [150] curb and may be increased
 where feasible to obtain a flatter ramp slope or to better
 blend with the walk configuration.
- Gutter counter slopes at the foot of perpendicular curb ramps should not exceed 20:1 [0.05] over a distance of 2'-0" [610] from the curb.
- 7 Dimensions derived by equation are nominal. Construct ramps to meet required slopes and existing conditions.
- B Detectable Warnings (truncated domes) are to be installed in the location shown. Dimensions of the domes are 24° [610] from the back of the curb by the width of the ramp. See NOTES on sheet 3 of 3.

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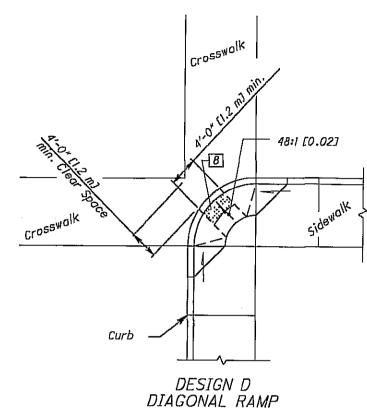


DESIGN A PERPENDICULAR RAMP

DESIGN B PARALLEL RAMP DESIGN C COMBINATION RAMP

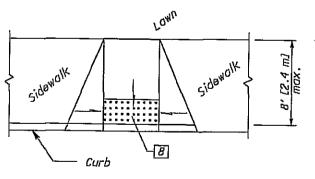
CORNER CURB RAMP DESIGNS

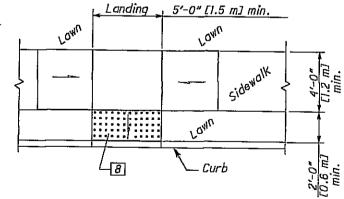
(See Curb Ramp Details on Sht. 1 of 3 for additional requirements.)



Use in existing walks only and when site constraints prohibit other designs. The diagonal ramp may be perpendular, parallel or combination.

Avoid using where curb radii are less than 20'-0" [6.0 m].

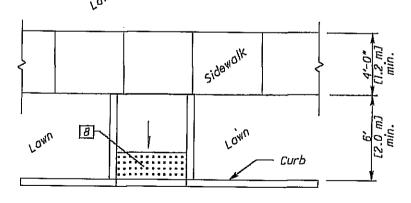




For LEGEND, See sheet 1 of 3.



DESIGN F PARALLEL RAMP



DESIGN G PERPENDICULAR RAMPS w/o FLARES

MID BLOCK CURB RAMP DESIGNS

(See Curb Ramp Details on Sht. 1/3 for additional requirements.)

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NOTES

SURFACE TEXTURE: Texture of concrete surfaces shall be obtained by coarse brooming transverse to the ramp slopes and shall be rougher than adjacent walk.

TRUNCATED DOMES: Install detectable warnings (truncated domes) for a distance of 24" [610] from the back of the curb for the entire width of the ramp opening as shown on details on Sheet 1.

Pavers will meet ASTM C 902 Class SX, Type 1, or C 936, or C 1272 Type R.

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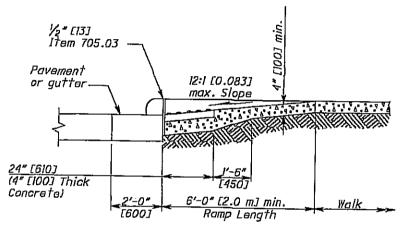
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Acceptable manufacturers and products are:

1) Whitacre-Greer Fireproofing Company,
1400 S. Mahoning Ave, Alliance, OH, 44601, (800) WG PAVER
ADA Paver, 4"x8"x2-1/4", Clear Red (Rustic) #30.



SECTION A-A NORMAL DETAIL See Sheet 1 of 3.

(Gutter shown)

Adjacent to P.C.C. - 1/2" [13] Preformed Joint material Item 705.03 with Joint See DETAIL A Sealer applied per SCD BP-5.1. Remove *1/2" [13]* Existing Item 705.03 12:1 [0.083] Curb max. Slope V A A V A V A A V Existing Pavement or Gutter Saw Cut if Curb is Monolithic with Pavement or Gutter <u>2'-0" [610]</u> 4" [100] thick Concrete Existing Walk 6'-0" [2.0 m] min. Ramp Length Payment Length SECTION A-A EXISTING WALK DETAIL

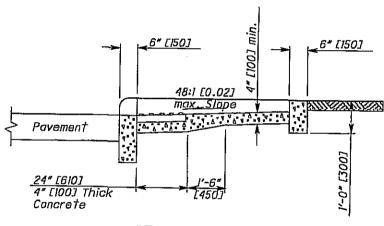
See Sheet Lof 3.

2) Hanover Architectural Products, 240 Bender Rd., Hanover, PA. 17331, (717) 637-0500 Detectable Warning Paver, 12"x12"x2", or 24"x24"x2", Red or Quarry Red.

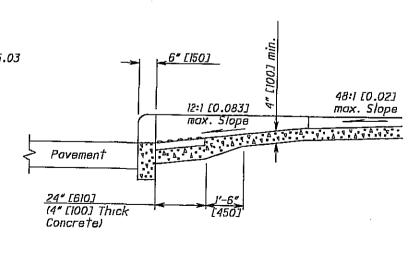
3) Endicott Clay Products, PO Box 17, Fairbury, NE, 68352, (402) 729–5804 Handicap Detectable Warning Paver, 4"x8"x2-1/4", Red Blend.

Pavers will laid on top of a 4" [100] unreinforced concrete base. Setting bed and joints to be mortared in accordance with manufacturer's instruction, or with a maximum ½" [13] thick bed of latex modified cement mortar. Mortar joints to a width not greater than \(\frac{1}{2} \) and not less than \(\frac{1}{6} \) [1.5]. Pavers shall not be directly touching each other unless they have spacing bars.

Mortared joints are to be flush with top surface and struck so as to give a smooth surface. Pavers shall be laid such that joints are level with adjoining joints so as to provide a smooth transition from brick to brick and brick to concrete surface.



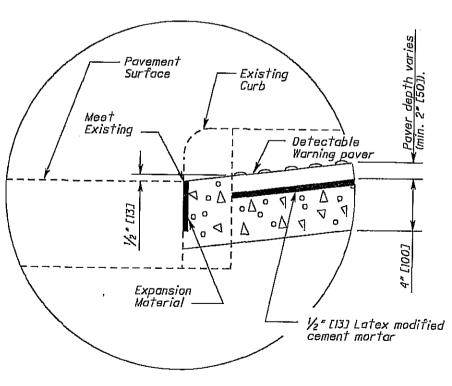
SECTION B-B See Sheet 1 of 3.



SECTION C-C See Sheet 1 of 3.

The surface of any two adjacent units should not differ by more than ½° [3] in height. Bricks shall be placed in a running bond pattern. Face of all brick shall be clean of cement and protected so as to avoid chipping during constructionn.

EXPANSION JOINTS: shall be provided in the curb ramp as extensions of walk joints and consistent with Item 608.03 requirements for a new concrete walk. A ½ [13] Item 705.03 expansion joint filler shall be provided around the edge of ramps built in existing concrete walk. Lines shown on this drawing indicate the ramp edge and slope changes and are not necessarily joint lines.



DETAIL A

3/3

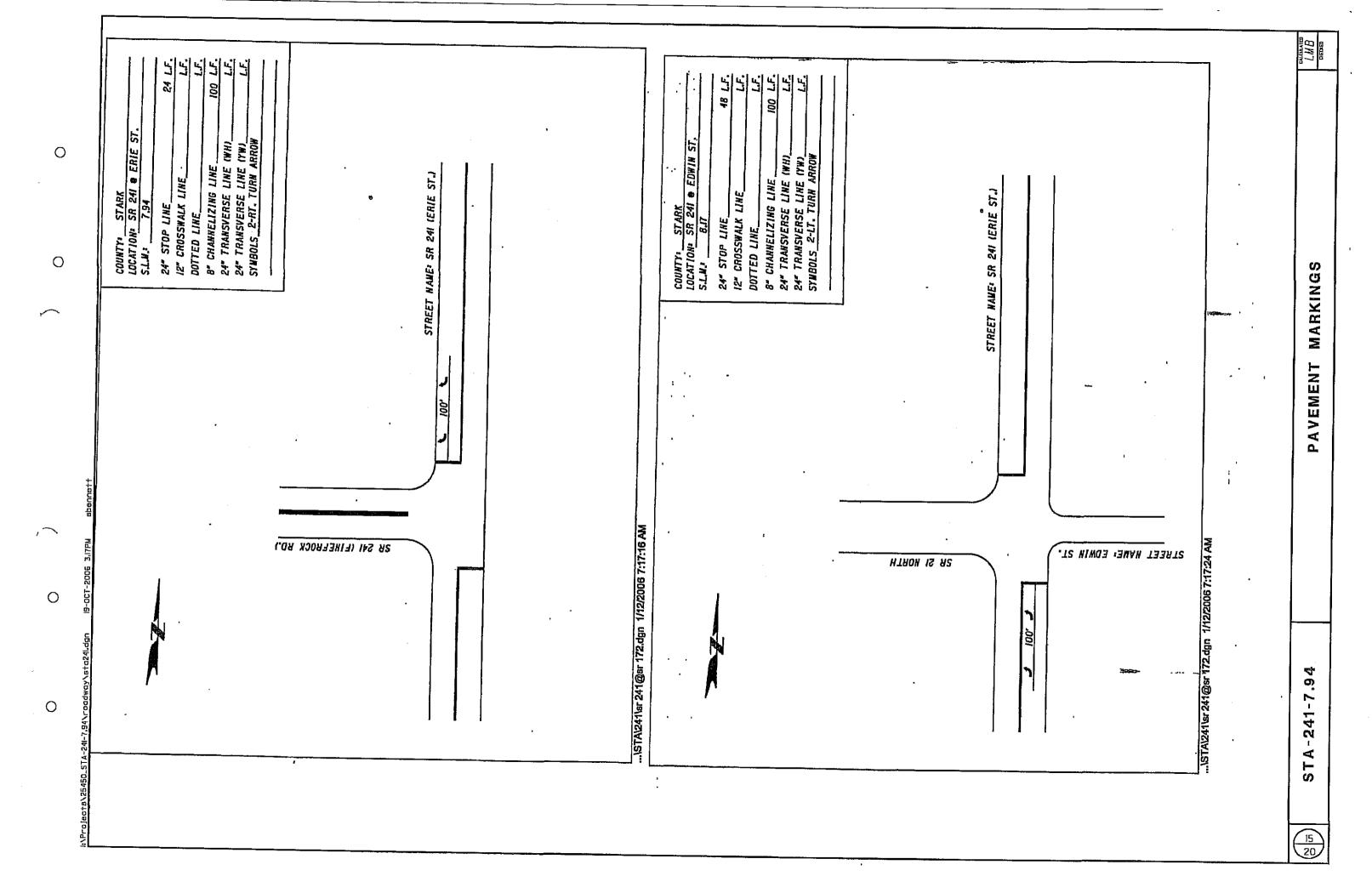
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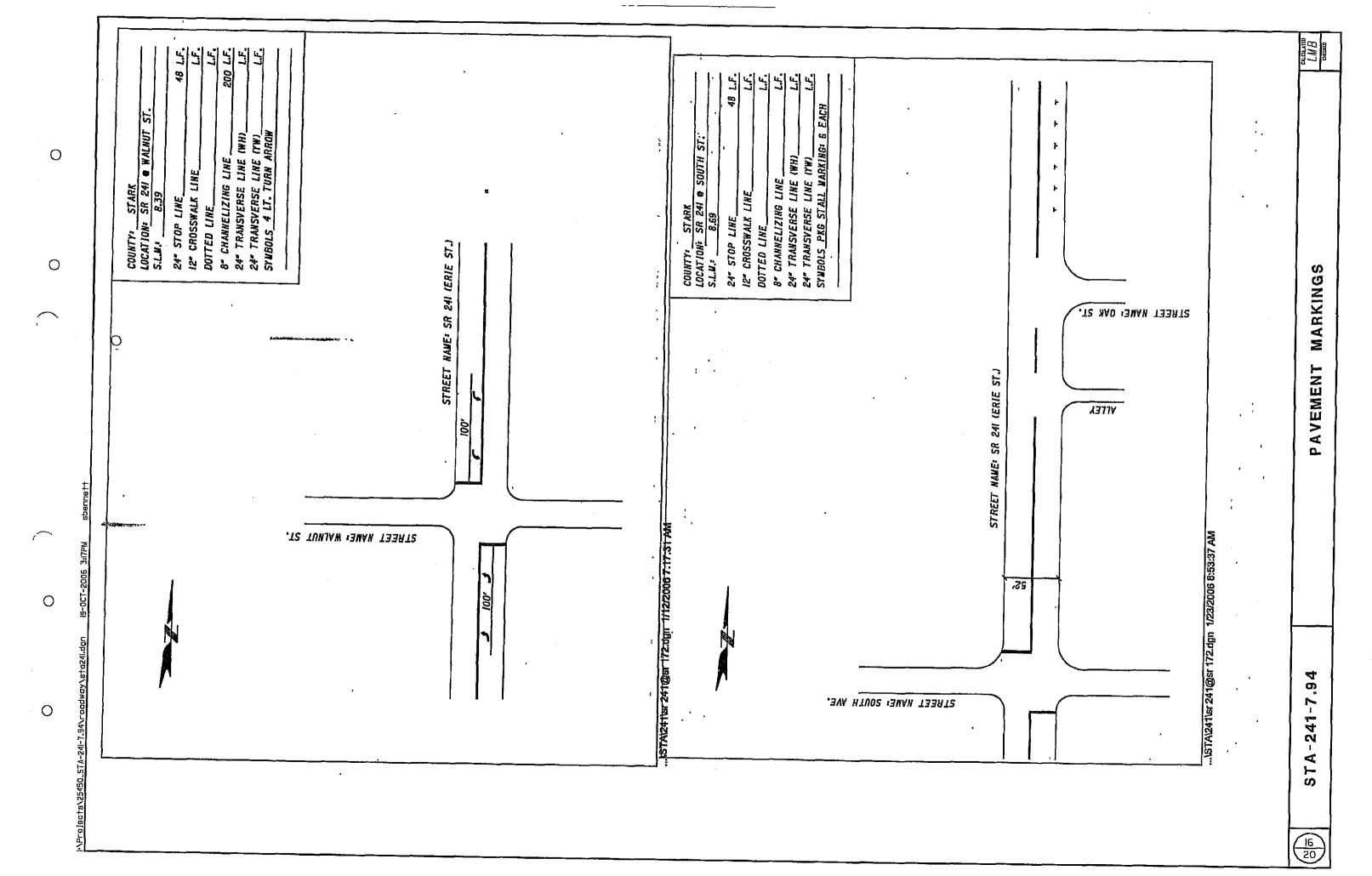
Center Line Log Record and Field Sheet TS 54 DISTRICT 4 SHEET____OF__ COUNTY STARK ROUTE Total This Route = Yellow: Salid_ ___, Yellow: Dash ______, White: Dash _ Equivalent Yellow_ - 9TH ST (89.5) SP 172 BEGIN (6.970) SHRIVER 5 T OVERLAP (8.96) (7.94) DIRMONO (6,932) LFINE FROCK .90 LI .90 .90 1 COHAries AVE. (8.89) MARKING 'L (७.४७) TVERMONT AND (5P.21 (8.83) PAVEMENT .80 .80 + - + .80 (7.81) (5) Oak RKIN (8.76) 11 ALLe AUXILIARY 11 (8.74) .70 .70 .70 < □ MYDIOS AN (8.UA) Σ -OBERLIN RÞ (6,620) SEE DENH (8.61) .60 CLEVELAND .60 .60 2 * Norf | (8.58) ST 1 17566 SOUTHIN RIP | WETMORE (855) $\overline{>}$ ii i (855) Π WELE -.50 RAILBOAD (7.4-73) .50 ,50 $\exists \Box$ (6.421) $\neg \neg \vdash$.40 .40 HALNUT WALNUT .40 + (8,39) (6.348) TE (B.35) RAWSON TITEST 1 1 .30 (G.313) .30 CUTLEY (8.28) (6.281) (7.250) MAFLE * (8,2<u>s)</u> VERNA (G209) .20 .20 .20 J (8.70) L CEDWIN 4 (7,166) (8.17) 0 III (DINIGHT 241-7 (8.12) 10 .10 .10 (6,085) · CARCH AU (6,004) (8.05) 4 -MM-6 |---(7,004) CENTRAL E (7,022) (A) 7.00 7.011) MM-7 **B.**00 (8.01) Yellow: Solid 2208 Dash 0.124 Yellow; Solid 1.222 Dosh 0.285. Yellow: Solid_ TOTAL YELLOW THE DACE COLID 3 430 DACH 0,412 EDIMALENT LINE 3533

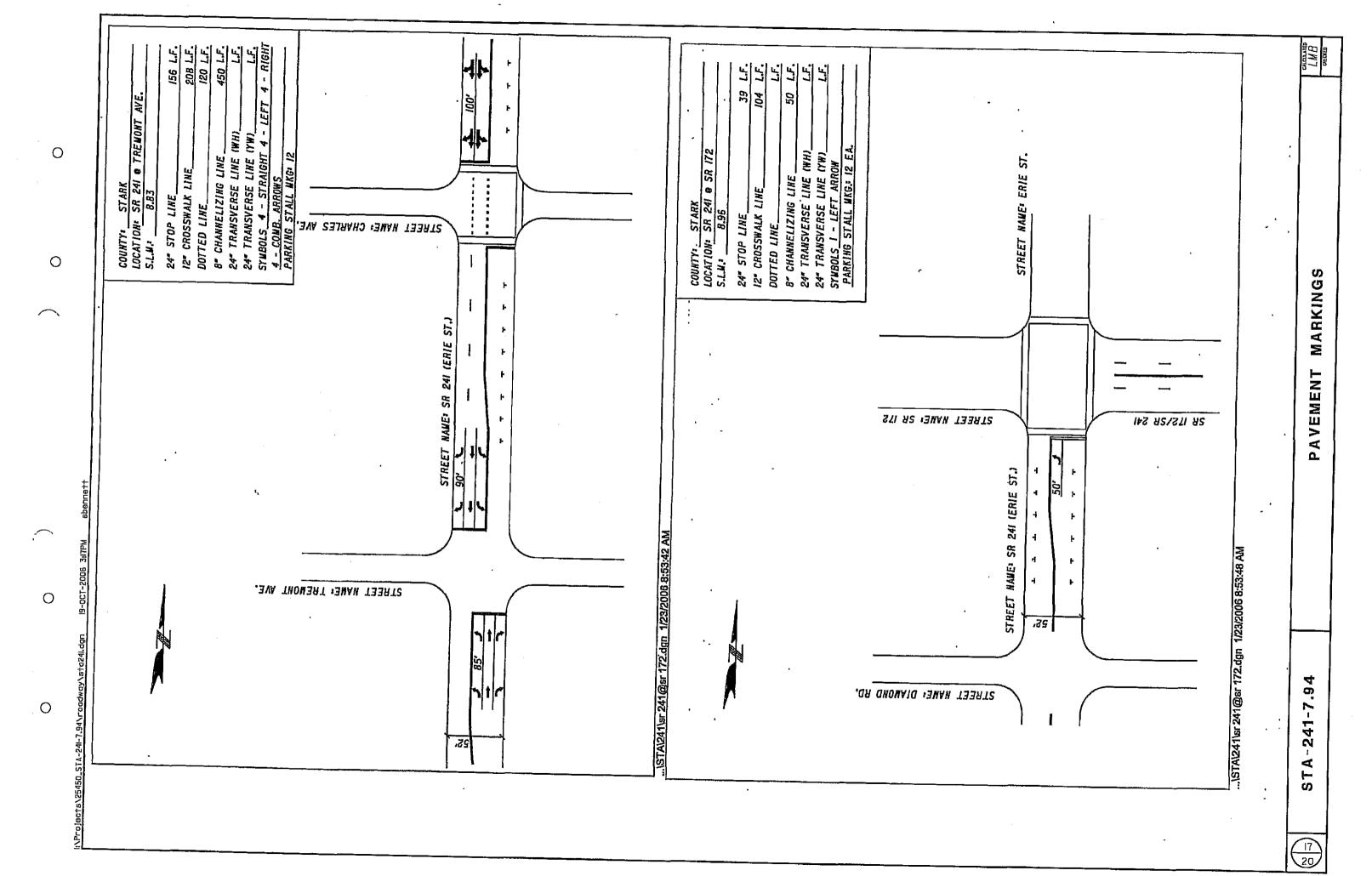
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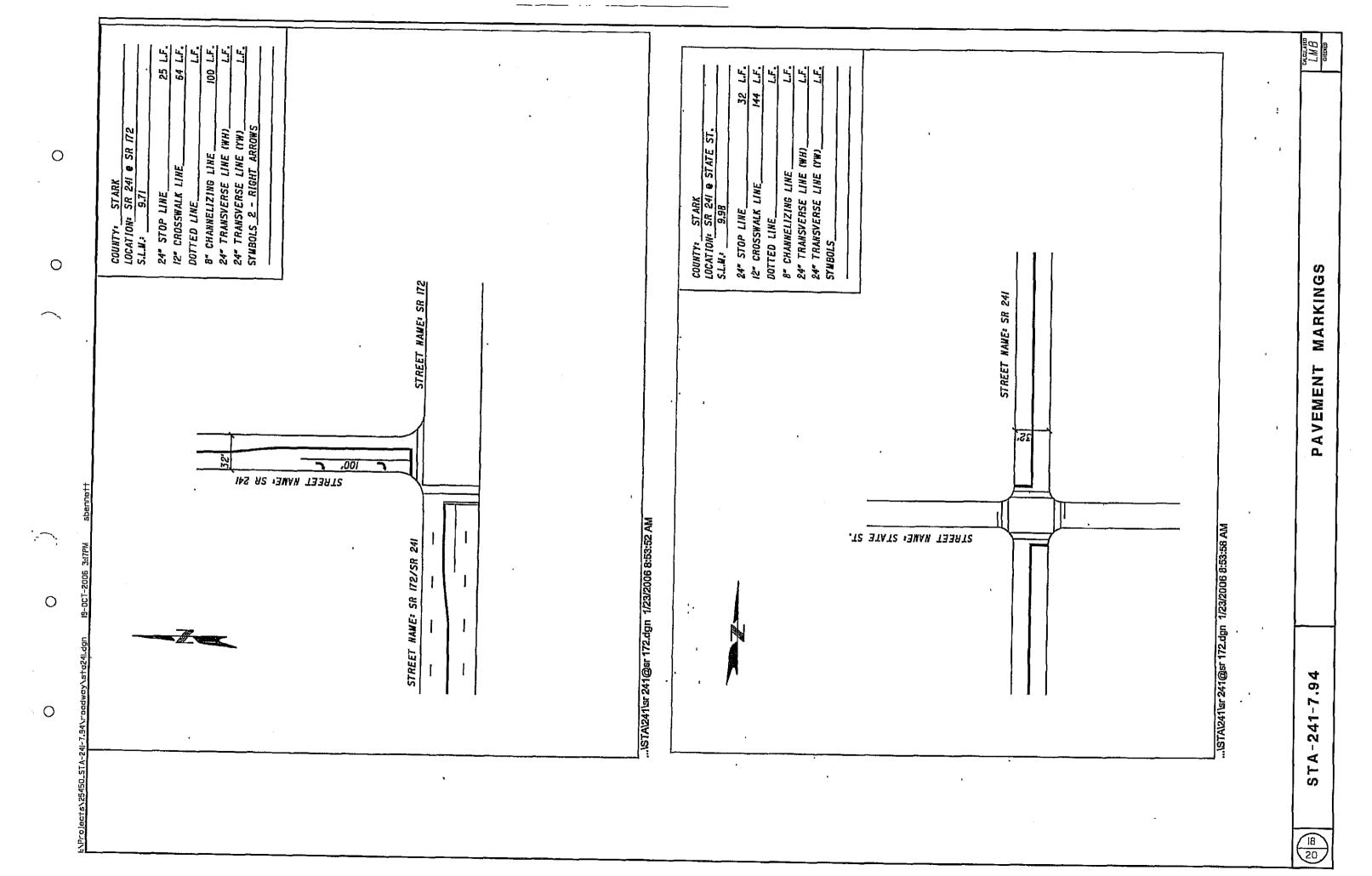
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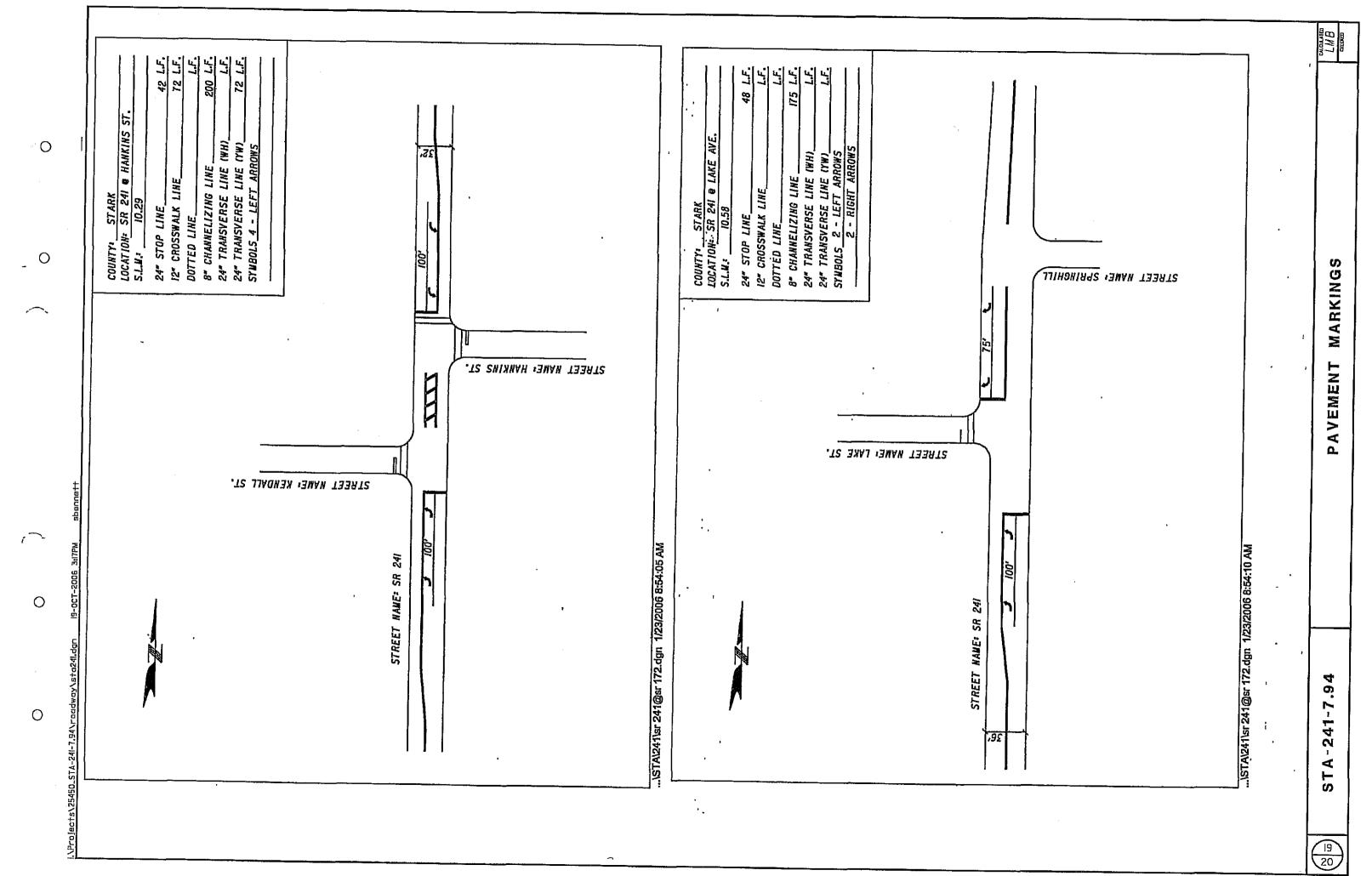
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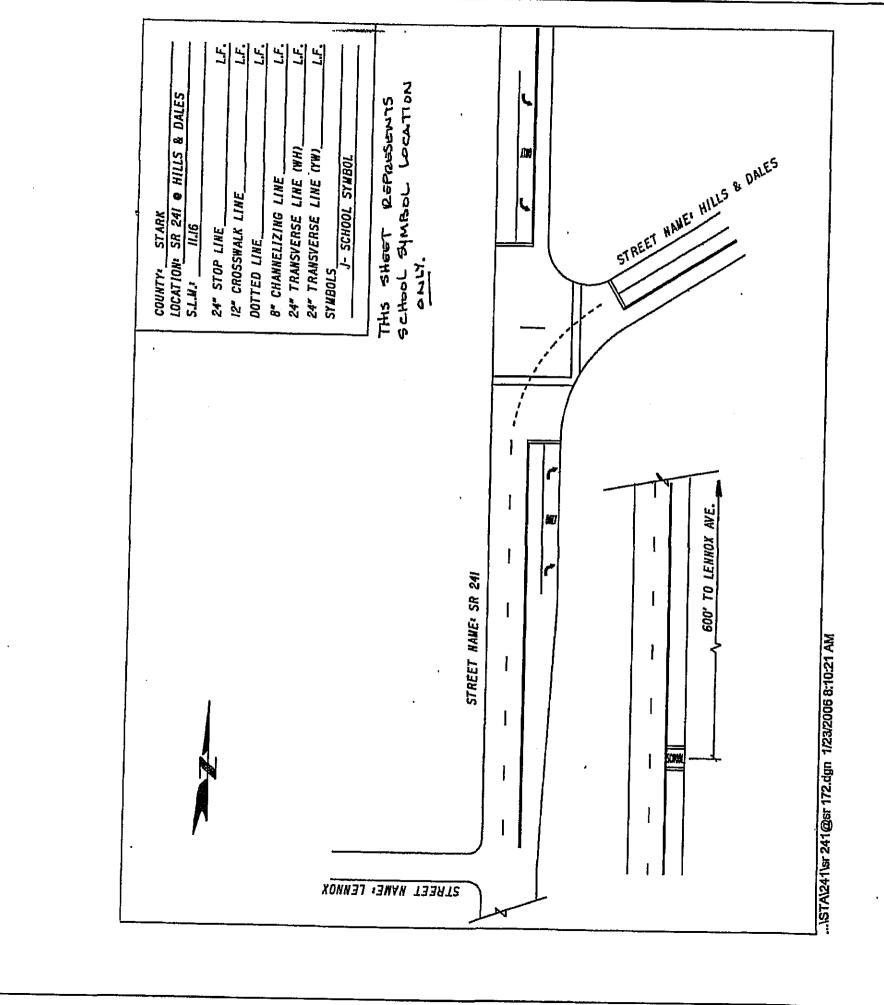












MARKINGS PAVEMENT

STA-241-7.94