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MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

PLAN AND PROFILE OF
IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)
IN THE TOWN OF
STOUGHTON
NORFOLK COUNTY

FEDERAL AID PROJECT NO.

STOUGHTON

IMPROVEMENTS AT RICHARD L. WILKINS

ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	105
PROJECT FILE NO.		608829	

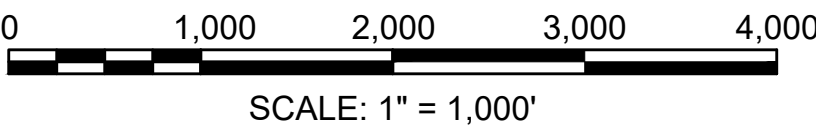
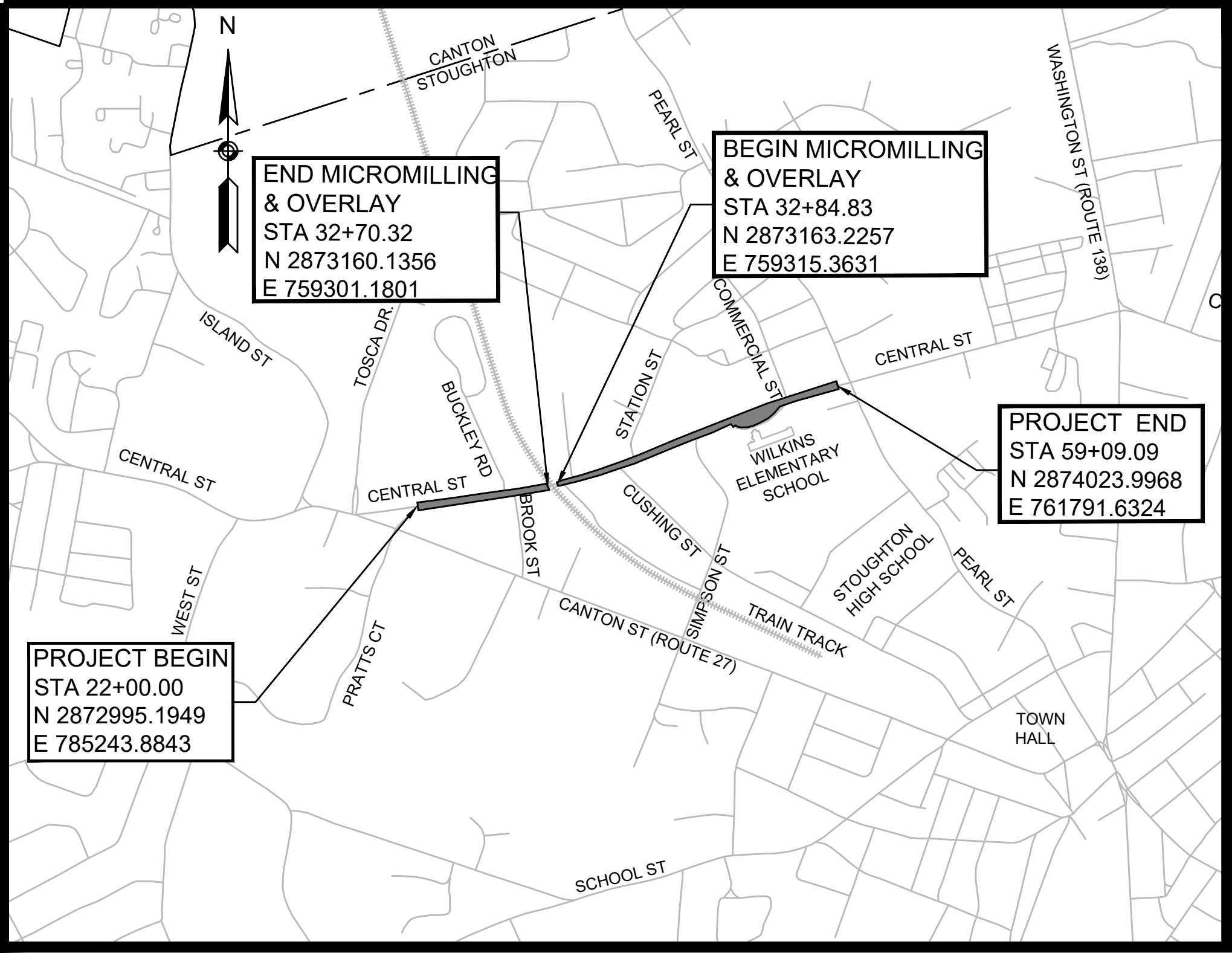
TITLE SHEET & INDEX

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 2019, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

25% / 75% SUBMITTAL

INDEX

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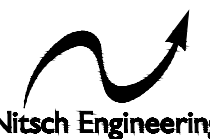


LENGTH OF PROJECT = 3,694.58 FEET = 0.700 MILES

DESIGN DESIGNATION CENTRAL STREET

DESIGN SPEED	35 MPH
ADT (2018)	14,942
ADT (2028)	16,505
K	7.4%
D	52% WB
T (PEAK HOUR)	11.9%
T (AVERAGE DAY)	10.6%
DHV	1,216
DDHV	696
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL

6/25/2019	25% / 75% SUBMISSION	
DATE	DESCRIPTION	REV #



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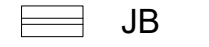
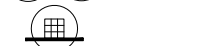
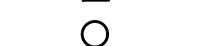
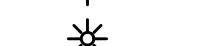
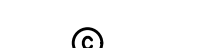
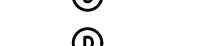
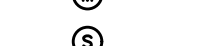
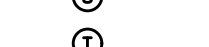
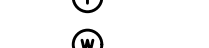
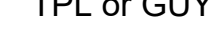
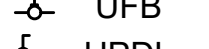
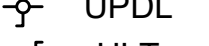
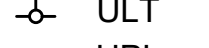
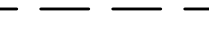
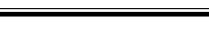
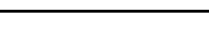
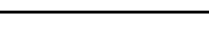
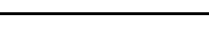
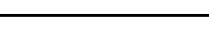
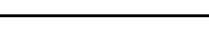
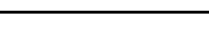
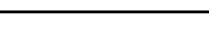
RECOMMENDED FOR APPROVAL

_____ CHIEF ENGINEER	_____ DATE
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APPROVED

_____ DIVISION ADMINISTRATOR	_____ DATE	_____ HIGHWAY ADMINISTRATOR	_____ DATE
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GENERAL SYMBOLS			TRAFFIC SYMBOLS			ABBREVIATIONS	
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	GENERAL	
		JERSEY BARRIER			CONTROLLER PHASE ACTUATED	AADT	ANNUAL AVERAGE DAILY TRAFFIC
		CATCH BASIN			TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	ABAN	ABANDON
		CATCH BASIN CURB INLET			WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	ADJ	ADJUST
		FLAG POLE			VIDEO DETECTION CAMERA	APPROX.	APPROXIMATE
		GAS PUMP			MICROWAVE DETECTOR	A.C.	ASPHALT CONCRETE
		MAIL BOX			PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
		POST SQUARE			EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	BIT.	BITUMINOUS
		POST CIRCULAR			VEHICULAR SIGNAL HEAD	BC	BOTTOM OF CURB
		WELL			FLASHING BEACON	BD.	BOUND
		ELECTRIC HANDHOLE			PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	BL	BASELINE
		FENCE GATE POST			SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	BLDG	BUILDING
		GAS GATE			MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	BM	BENCHMARK
		BORING HOLE			MAST ARM WITH LUMINAIRE	BO	BY OTHERS
		MONITORING WELL			OPTICAL PRE-EMPTION DETECTOR	BOS	BOTTOM OF SLOPE
		TEST PIT			CONTROL CABINET, GROUND MOUNTED	BR.	BRIDGE
		HYDRANT			CONTROL CABINET, POLE MOUNTED	CB	CATCH BASIN
		LIGHT POLE			FLASHING BEACON CONTROL AND METER PEDESTAL	CB CI	CATCH BASIN WITH CURB INLET
		COUNTY BOUND			PULL BOX 12"x12" (OR AS NOTED)	CC	CEMENT CONCRETE
		GPS POINT			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	CCM	CEMENT CONCRETE MASONRY
		CABLE MANHOLE			TRAFFIC SIGNAL CONDUIT	CEM	CEMENT
		DRAINAGE MANHOLE				CI	CURB INLET
		ELECTRIC MANHOLE				CIT	CHANGE IN TYPE
		GAS MANHOLE				CIP	CAST IRON PIPE
		MISC MANHOLE				CLF	CHAIN LINK FENCE
		SEWER MANHOLE				CL	CENTERLINE
		TELEPHONE MANHOLE				CLDI	CONCRETE LINED DUCTILE IRON
		WATER MANHOLE				CMP	CORRUGATED METAL PIPE
		MASSACHUSETTS HIGHWAY BOUND				CSP	CORRUGATED STEEL PIPE
		MONUMENT				CO.	COUNTY
		STONE BOUND				CONC	CONCRETE
		TOWN OR CITY BOUND				CONT	CONTINUOUS
		TRAVERSE OR TRIANGULATION STATION				CONST	CONSTRUCTION
		TROLLEY POLE OR GUY POLE				CR GR	CROWN GRADE
		TRANSMISSION POLE				DHV	DESIGN HOURLY VOLUME
		UTILITY POLE W/ FIREBOX				DI	DROP INLET
		UTILITY POLE WITH DOUBLE LIGHT				DIA	DIAMETER
		UTILITY POLE W / 1 LIGHT				DIP	DUCTILE IRON PIPE
		UTILITY POLE				DWY	DRIVEWAY
		BUSH				ELEV (or EL.)	ELEVATION
		TREE				EMB	EMBANKMENT
		STUMP				EOP	EDGE OF PAVEMENT
		SWAMP / MARSH				EXIST (or EX)	EXISTING
		WATER GATE				EXC	EXCAVATION
		PARKING METER				F&C	FRAME AND COVER
		OVERHEAD CABLE/WIRE				F&G	FRAME AND GRATE
		CURBING				FDN.	FOUNDATION
		CONTOURS (ON-THE-GROUND SURVEY DATA)				FDP	FULL DEPTH PAVEMENT
		CONTOURS (PHOTOGRAMMETRIC DATA)				FLDSTN	FIELDSTONE
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)				GAR	GARAGE
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)				GD	GROUND
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)				GFS	GREEN FRICTION SURFACE
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)				GG	GAS GATE
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)				GI	GUTTER INLET
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)				GIP	GALVANIZED IRON PIPE
		BALANCED STONE WALL				GRAN	GRANITE
		GUARD RAIL - STEEL POSTS					

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GENERAL NOTES

1.
- THE EXISTING CONDITIONS INFORMATION SHOWN HEREON IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY NITSCH ENGINEERING BETWEEN MAY 21 TO JULY 10, 2018, UTILIZING A LEICA TPS 1200 TOTAL STATION.
2.
- HORIZONTAL AND VERTICAL CONTROL WAS PROVIDED BY THE MASSDOT SURVEY SECTION. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE, NAD83(2011) EPOCH 2010.00 IN US SURVEY FOOT. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88, GEOID 12B.
3.
- THE LOCATION OF STATE, COUNTY, MUNICIPAL AND PRIVATE RIGHT OF WAY LINES SHOWN HEREON ARE POSITIONED ON RECOVERED RECORD MONUMENTS LOCATED WITH ON-THE-GROUND INSTRUMENT SURVEY. ABUTTERS PROPERTY LINES DEPICTED HEREON ARE APPROXIMATE ONLY AND ARE BASED UPON RECORD DEEDS, PLANS, ASSESSORS AND LIMITED ON THE GROUND INSTRUMENT SURVEY. RECORD DEEDS AND PLANS MAY CONTAIN MATHEMATICAL DISCREPANCIES AND INCONSISTENCIES, WHICH WHERE NOT RESOLVED WITH THIS SURVEY.
4.
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT DISCLOSE ANY MATTERS THAT MAY BE REVEALED BY ONE.
5.
- THIS PLAN DOES NOT SHOW UNWRITTEN OR UNRECORDED EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT AND VISIBLE USES OF THE LAND. THIS PLAN DOES NOT GUARANTEE THAT NO SUCH EASEMENTS EXIST.
6.
- LEGAL STATUS OF EASEMENTS, WAYS AND RESTRICTIONS NOT DETERMINED BY THIS SURVEY.
7.
- TITLE TO LAND IN THE ABUTTING WAYS IS NOT SHOWN AND HAS NOT BEEN DETERMINED AS A RESULT OF THIS SURVEY.
8.
- DASHED BUILDING LINES ARE FROM MASSGIS AND ARE SHOWN FOR GRAPHICAL REFERENCE ONLY.
9.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE HIS OWN DETERMINATION OF SUBSURFACE CONDITIONS INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS WORK.
10.
- EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM FIELD SURVEYS AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THIS INFORMATION FURNISHED TO THE ENGINEER.
11.
- THE RELOCATION, INSTALLATION OR REMOVAL OF PRIVATE UTILITIES SHALL BE ACCOMPLISHED BY THEIR OWNERS, EXCEPT AS OTHERWISE NOTED. THE CONTRACTOR WILL BE REQUIRED TO COOPERATE WITH THE PRIVATE UTILITY COMPANIES AND ALLOW THEM ADEQUATE TIME TO COMPLETE THEIR WORK IN ADVANCE OF PERFORMING ANY PAVING OPERATIONS OR OTHER FINISHED WORK.
12.
- AREAS OUTSIDE OF THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THEIR ORIGINAL CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
13.
- THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-DIG-SAFE AT LEAST 72 HOURS PRIOR TO COMMENCING WORK ON THE PROJECT.
14.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND FOR MAINTAINING COMPOST FILTER TUBES, SILT FENCE(S), AND OTHER EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE CONTRACT AS SHOWN ON THE PLANS AND AS REQUIRED BY THE ENGINEER.
15.
- NO EXISTING DRAINAGE SYSTEMS SHALL BE ABANDONED, PLUGGED OR REMOVED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
16.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES AND LEGAL REQUIREMENTS, IN THE CONSTRUCTION OF IMPROVEMENTS.
17.
- ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES. EXCAVATIONS SHALL BE BACK FILLED DAILY AT THE COMPLETION OF WORK.
18.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES. IF THE CONTRACTOR DAMAGES UTILITY SYSTEMS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL REPAIR/REPLACE THE AFFECTED SYSTEM AT HIS OWN EXPENSE.
19.
- ALL MATERIALS TO BE REMOVED AND DISCARDED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
20.
- CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF ALL EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.
21.
- THE TEMPORARY TRAFFIC CONTROL PLANS INDICATE THE GENERAL REQUIREMENTS FOR THE VARIOUS PHASES OF WORK. THE CONTRACTOR SHALL SUBMIT DETAILED TRAFFIC MANAGEMENT PLANS TO THE ENGINEER FOR APPROVAL.
22.
- ALL PROPOSED EXCAVATION SUPPORT SYSTEMS SHALL BE CONSIDERED INCIDENTAL TO THE APPLICABLE ITEMS.
23.
- THE FLOW OF TRAFFIC THROUGH THE SITE MUST BE MAINTAINED AS SHOWN ON THE TRAFFIC CONTROL PLANS AND SPECIFIED IN THE SPECIAL PROVISIONS. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE PARKED OR STOCKPILED SO AS TO OBSTRUCT THE FLOW OF VEHICLES.
24.
- ALL CATCH BASIN RIM ELEVATIONS ARE GIVEN AT THE CENTER OF THE BACK OF THE GRATE. THE CATCH BASIN RIM SHALL BE SET FLUSH WITH THE ROADWAY FINISHED GRADE.
25.
- ALL PROPOSED CATCH BASINS, UNLESS NOTED OTHERWISE, SHALL HAVE A 4' DEEP SUMP PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COMPENSATION.
26.
- DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED SHALL BE MADE AS APPROVED OR REQUIRED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.

27.
- THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IN SUITABLE CONDITION IDENTIFIED AS "REMOVE AND RESET" (R&R).
28.
- SURFACE JOINTS BETWEEN NEW HOT MIX ASPHALT ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HMA JOINT SEALANT.
29.
- ALL LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
30.
- ALL EXISTING GRANITE CURB & EDGING IN SUITABLE CONDITION SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.
31.
- IN AREAS OF FULL DEPTH PAVEMENT AND SIDEWALK RECONSTRUCTION WHERE PROPOSED MEETS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAWCUT TO OBTAIN A CLEAN VERTICAL FACE.
32.
- THE LAYOUT OF ALL NEW PEDESTRIAN RAMPS SHALL CONFORM TO ADA/AAB STANDARDS AND CURRENT MASSDOT STANDARDS AND DIRECTIVES.
33.
- ALL UTILITY AND DRAINAGE FRAMES, GRATES, AND COVERS SHALL BE INSTALLED FLUSH WITH SURROUNDING PAVEMENT.
34.
- THE CONTRACTOR SHALL PROVIDE INLET PROTECTION DURING CONSTRUCTION FOR ALL EXISTING AND PROPOSED CATCH BASINS/AREA DRAINS WITHIN THE LIMIT OF WORK. REFER TO THE DETAIL ENTITLED "INLET PROTECTION FOR CATCH BASIN WITH SILTATION SACK" ON THE CONSTRUCTION DETAIL SHEETS.
35.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF DRAINAGE STRUCTURE SEDIMENTS WITHIN THE AND LIMIT OF WORK AS REQUIRED BY THE ENGINEER AND IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF SECTION 227 OF THE MASSDOT STANDARD SPECIFICATIONS, AS AMENDED.
36.
- ALL EXISTING WORN COVERS OR CRACKED FRAMES ARE TO BE REPLACED WITH NEW CASTINGS AS SUPPLIED BY BWSC, AS DIRECTED BY BWSC CONSTRUCTION REPRESENTATIVE.

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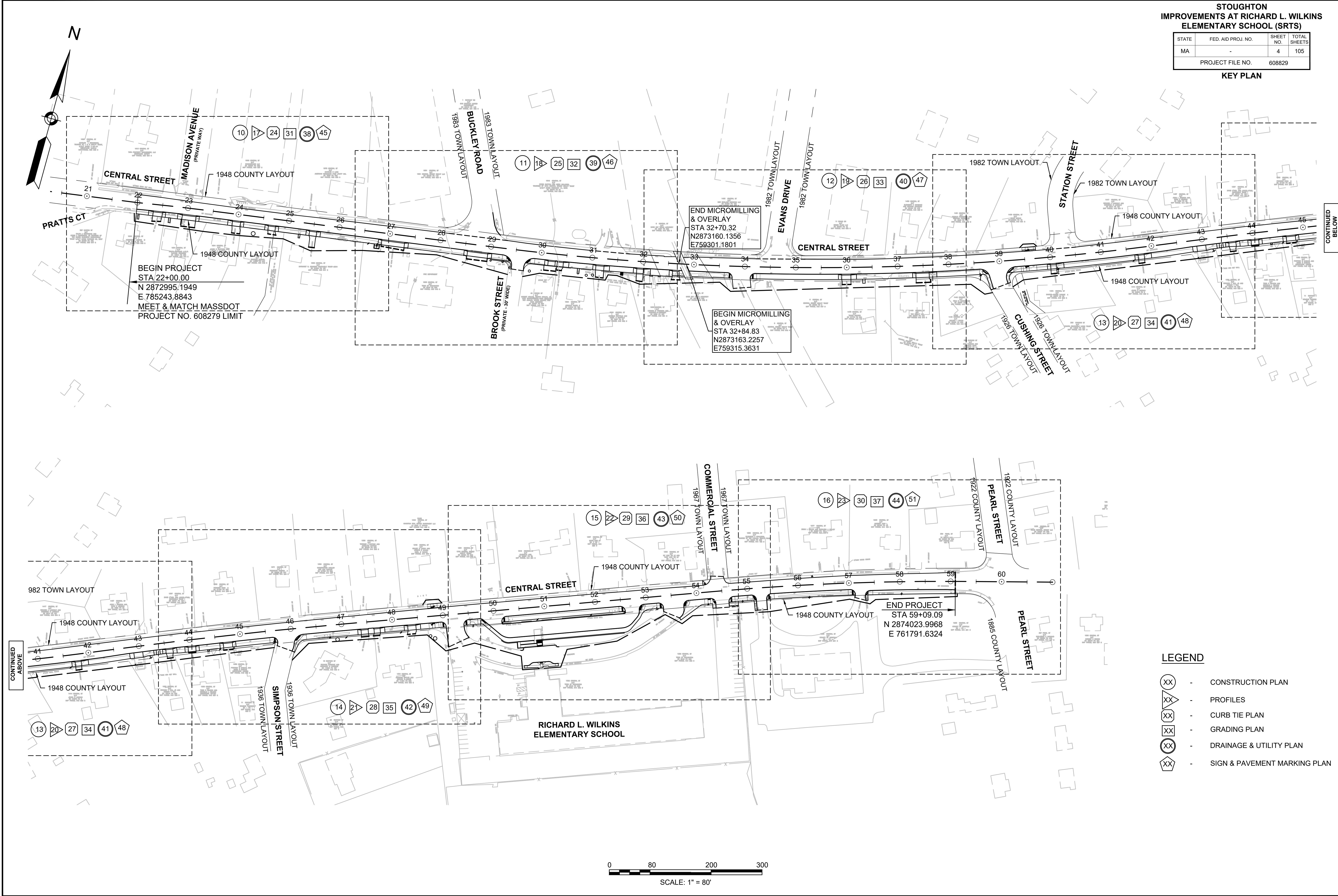
GENERAL NOTES

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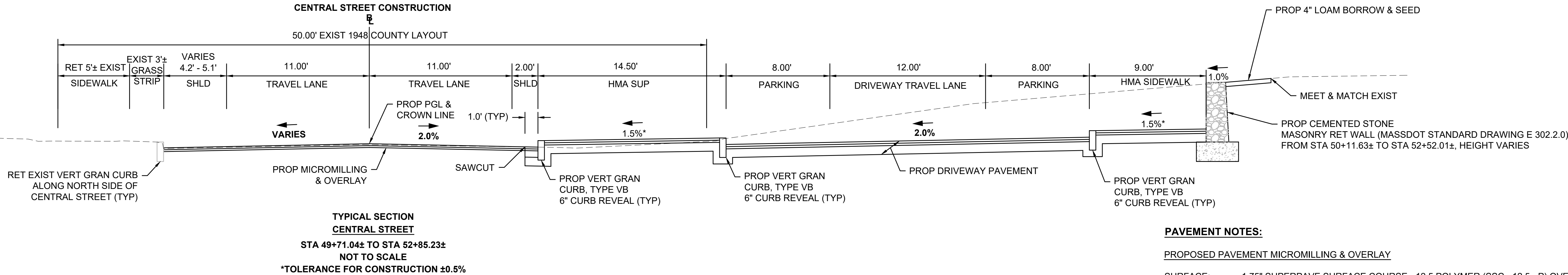
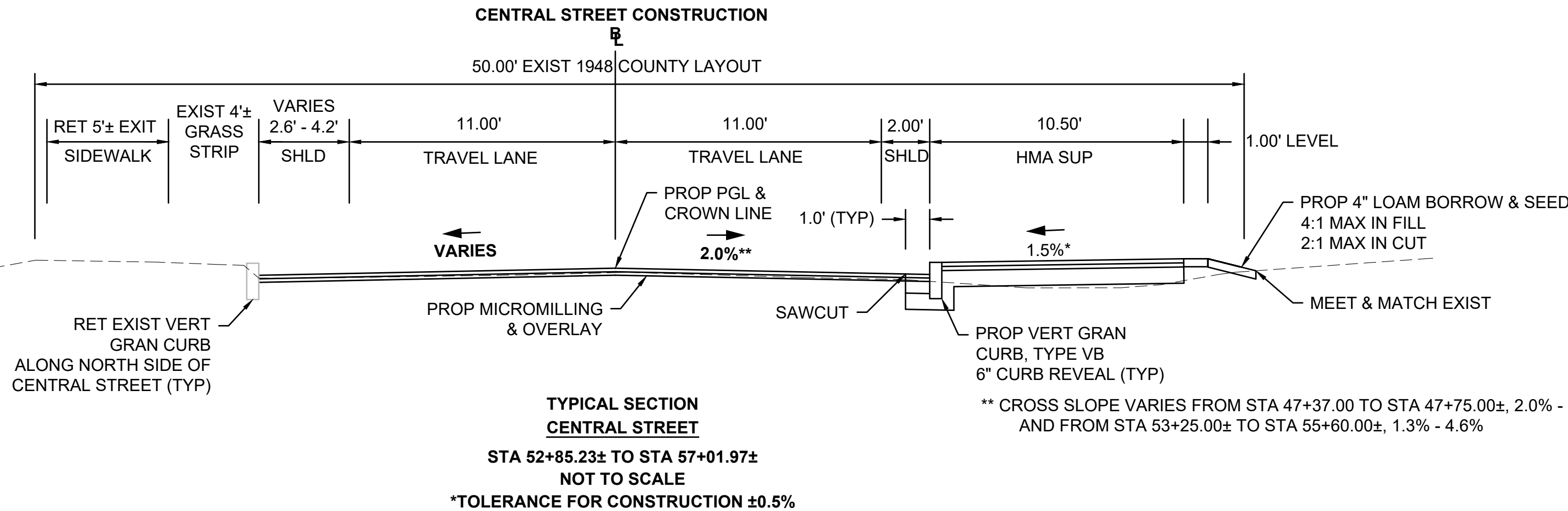
KEY PLAN



STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
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TYPICAL SECTIONS



PAVEMENT NOTES:

PROPOSED PAVEMENT MICROMILLING & OVERLAY

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P) OVER 1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) OVER PAVEMENT MICROMILLING SURFACE

PAVEMENT MICROMILLING DEPTH VARIES (0" - 3.5" MAX)

PROPOSED FULL DEPTH PAVEMENT WIDENING LESS THAN 4 FEET

SURFACE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P) OVER

INTERMEDIATE: 1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) OVER

BASE: 8" HIGH EARLY STRENGTH CEMENT CONCRETE (3000 PSI, 1 1/2", 470) OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED CEMENT CONCRETE WHEEL CHAIR RAMPS, WALKWAYS AND SIDEWALK

SURFACE: 4" CEMENT CONCRETE SIDEWALK/ WHEEL CHAIR RAMP OVER (AIR ENTRAINED 4000 PSI, 3/4", 610) OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED HOT MIX ASPHALT SHARED USED PATH, SIDEWALK, WALKWAYS AND DRIVEWAYS

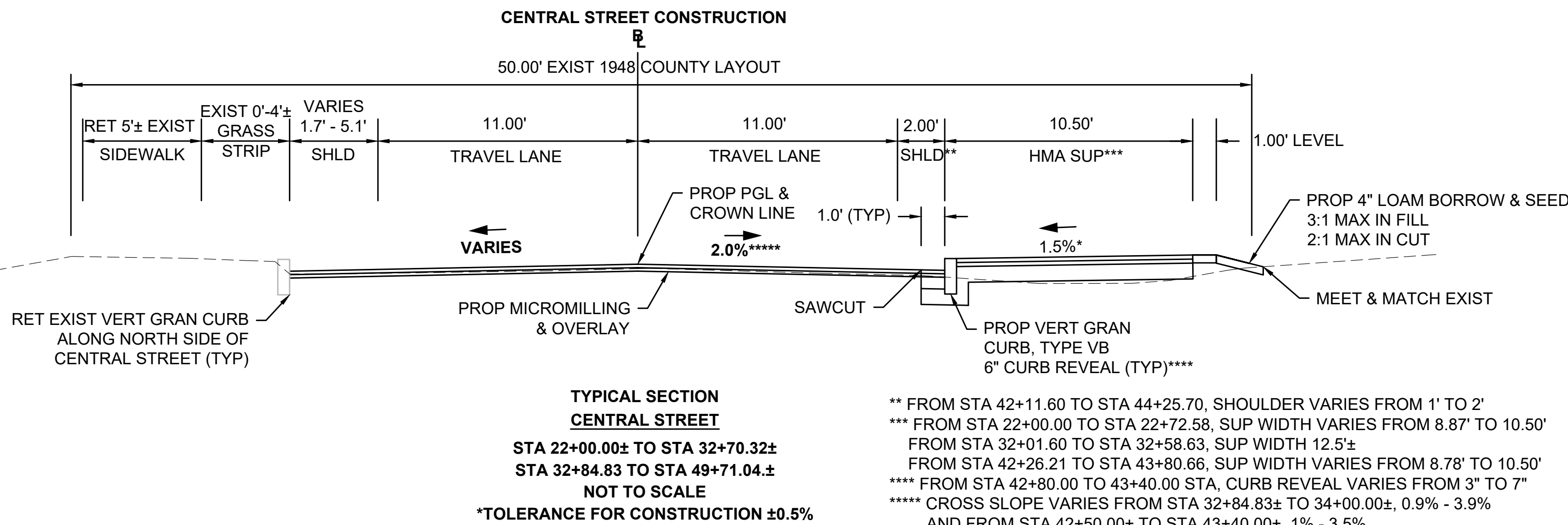
SURFACE: 3.5" HOT MIX ASPHALT PLACED IN TWO LIFTS:
1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER
1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b*

*EXISTING GRAVEL BORROW SHALL BE RE-USED IF DETERMINED SUITABLE BY THE ENGINEER.

NOTE:

- ALL HOT MIX ASPHALT SHALL BE IN ACCORDANCE WITH SECTION 450 AND M3.
- PAVING OPERATION SHALL SCHEDULE PAVING INTERMEDIATE COURSE TO PROTECT MILLED SURFACE. ALL STEEL FRAMES, GATES AND SERVICE BOXES SHALL BE ADJUSTED TWICE TO THE INTERMEDIATE COURSE AND TO LEVEL TO THE FINAL SURFACE COURSE.



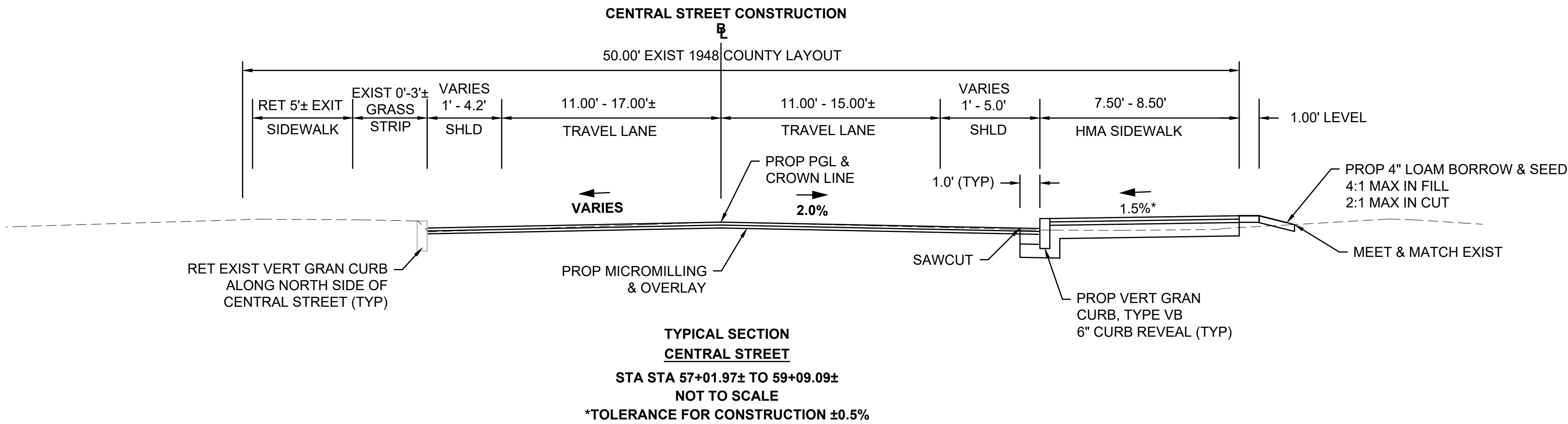
** FROM STA 42+11.60 TO STA 44+25.70, SHOULDER VARIES FROM 1' TO 2'
*** FROM STA 22+00.00 TO STA 22+72.58, SUP WIDTH VARIES FROM 8.87' TO 10.50'
FROM STA 32+01.60 TO STA 32+58.63, SUP WIDTH 12.5±
FROM STA 42+26.21 TO STA 43+80.66, SUP WIDTH VARIES FROM 8.78' TO 10.50'
**** FROM STA 42+80.00 TO 43+40.00 STA, CURB REVEAL VARIES FROM 3" TO 7"
***** CROSS SLOPE VARIES FROM STA 32+84.83± TO 34+00.00±, 0.9% - 3.9%
AND FROM STA 42+50.00± TO STA 43+40.00±, 1% - 3.5%

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	6	105
PROJECT FILE NO.		608829	

TYPICAL SECTIONS

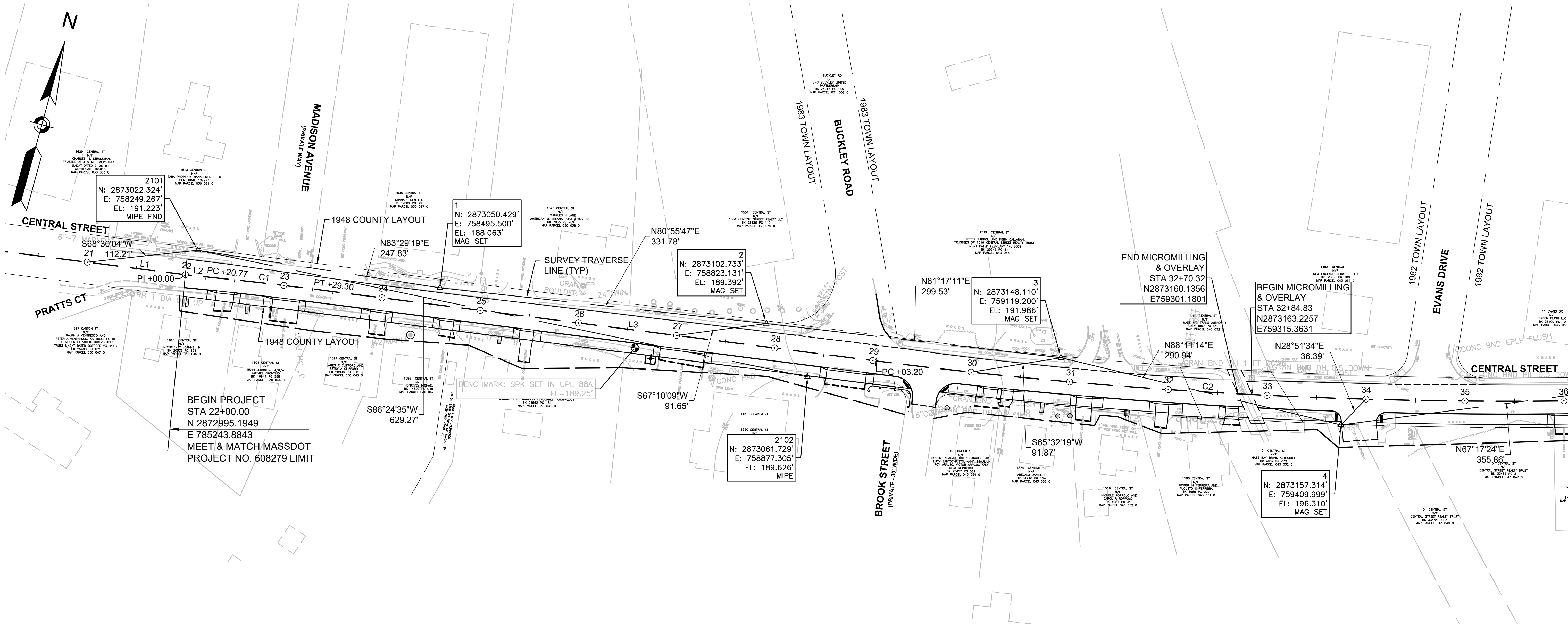
- NOTE:**
1. SEE SHEET 5 FOR PROPOSED PAVEMENT NOTES.



STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	7	105
PROJECT FILE NO.		608829	

CONSTRUCTION BASELINE TIE PLAN



CENTRAL STREET CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	17+00.00	2872925.2326	757748.8032		N81°57'23"E 500.00'	22+00.00	2872995.1949	758243.8843
L2	22+00.00	2872995.1949	758243.8843		N80°24'07"E 20.77'	22+20.77	2872998.6588	758264.3679
C1	22+20.77	2872998.6588	758264.3679	R = 4000.00' Δ= 1°33'16" T=54.27'		23+29.30	2873015.3006	758371.6092
L3	23+29.30	2873015.3006	758371.6092		N81°57'23"E 573.90'	29+03.20	2873095.6043	758939.8611
C2	29+03.20	2873095.6043	758939.8611	R = 5050.00' Δ= 15°00'38" T=665.31'		42+26.21	2873449.2356	760210.8070
C3	42+26.21	2873449.2356	760210.8070	R = 10000.00' Δ= 2°43'29" T=237.83'		47+01.77	2873624.9935	760652.6544
L4	47+01.77	2873624.9935	760652.6544		N69°40'15"E 742.96'	54+44.73	2873883.1089	761349.3376
C4	54+44.73	2873883.1089	761349.3376	R = 5000.00' Δ= 5°27'13" T=238.14'		59+20.65	2874026.9766	761802.7984
L5	59+20.65	2874026.9766	761802.7984		N75°07'28"E 179.35'	61+00.00	2874073.0199	761976.1381

- LEGEND & ABBREVIATION
- Δ

MAG SET

MIPE FND

MIPE
- -

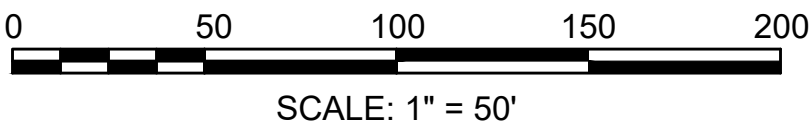
-

-
- SURVEY CONTROL POINT

MAG NAIL

IRON PIPE FOUND

IRON PIPE



CONTINUED ON
SHEET NO. 8

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	8	105

PROJECT FILE NO. 608829

CONSTRUCTION BASELINE TIE PLAN

LEGEND & ABBREVIATION

- Δ

MAG SET

MIPE FND

MIPE
- SURVEY CONTROL POINT

-

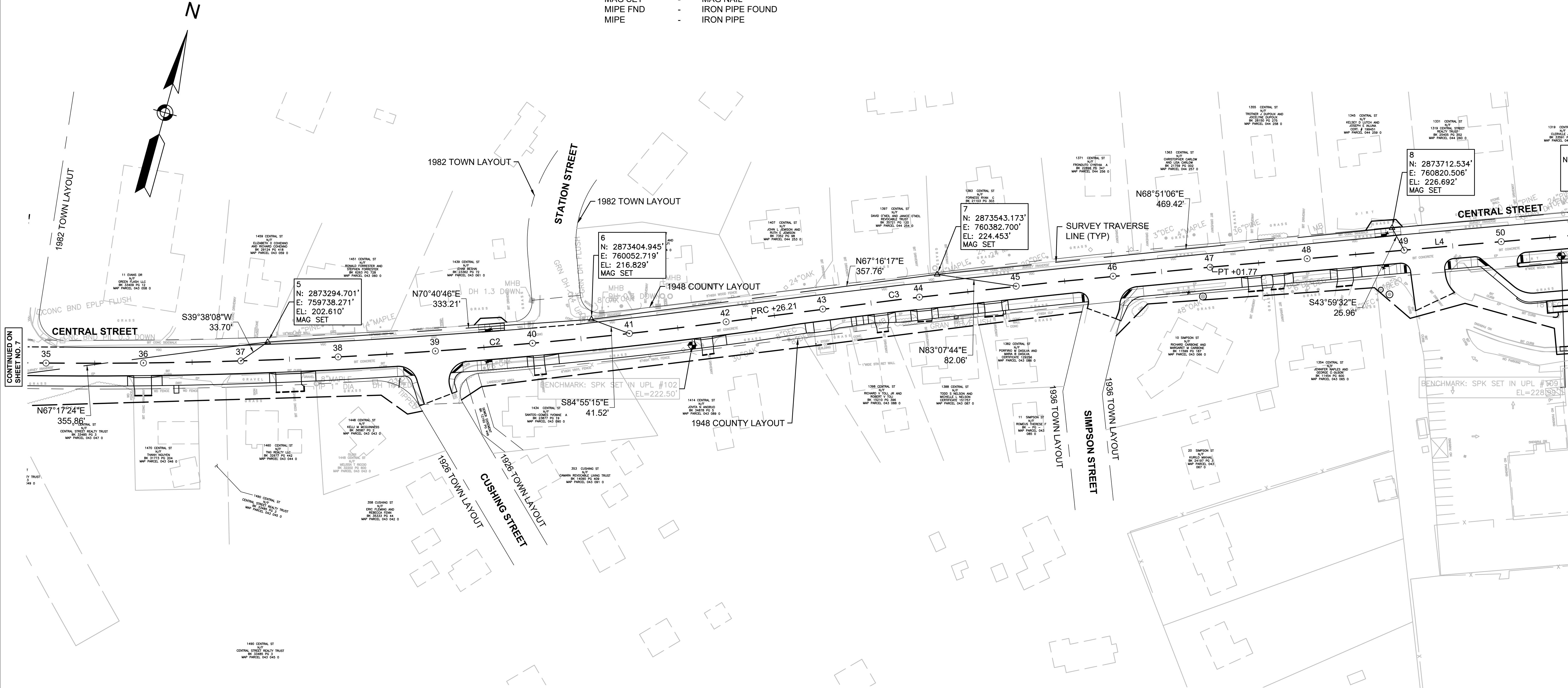
MAG NAIL

-

IRON PIPE FOUND

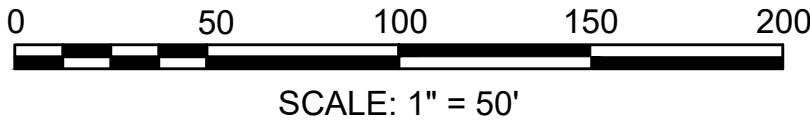
-

IRON PIPE



NOTE:

1. SEE SHEET 7 FOR CENTRAL STREET CONSTRUCTION BASELINE DATA.



CONTINUED ON
SHEET NO. 9

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	105
PROJECT FILE NO.		608829	

CONSTRUCTION BASELINE TIE PLAN

- LEGEND & ABBREVIATION
- △

MAG SET

-

SURVEY CONTROL POINT
- MIPE FND

-

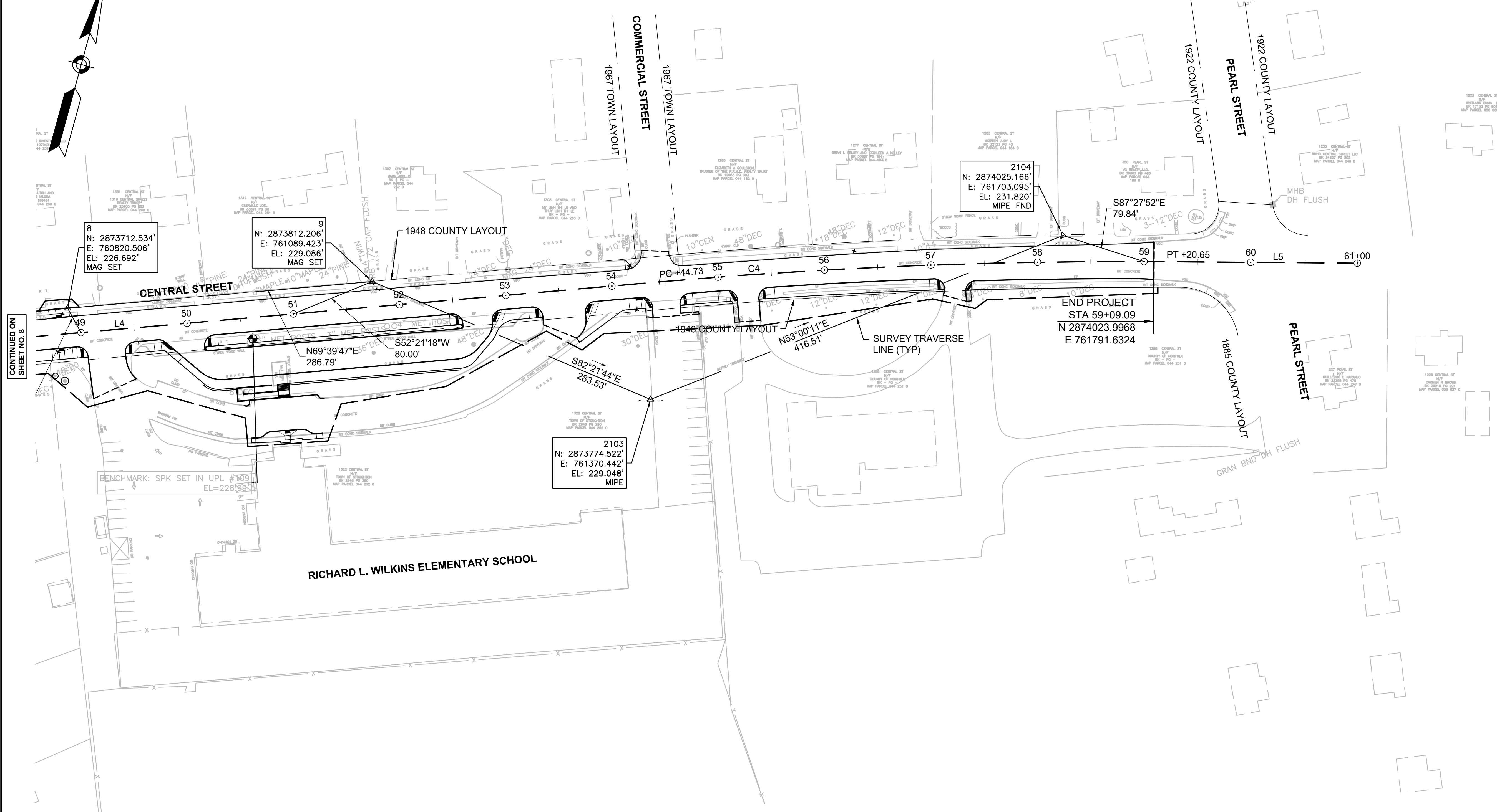
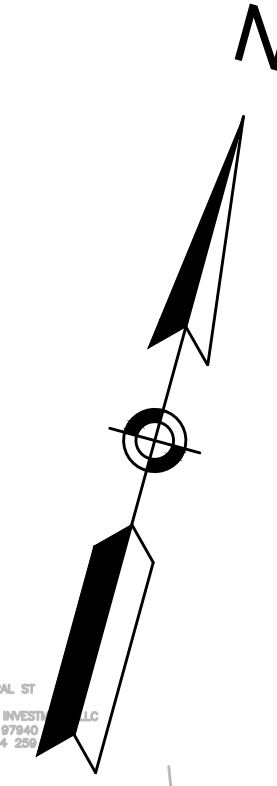
MAG NAIL
- MIPE

-

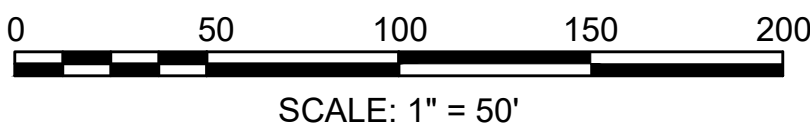
IRON PIPE FOUND
- MIPE

-

IRON PIPE



- NOTE:
1. SEE SHEET 7 FOR CENTRAL STREET CONSTRUCTION BASELINE DATA.



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	10	105
PROJECT FILE NO.		608829	

NOTES

- SEE SHEET 38



CONTINUED ON
SHEET NO. 11

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	105
PROJECT FILE NO.		608829	

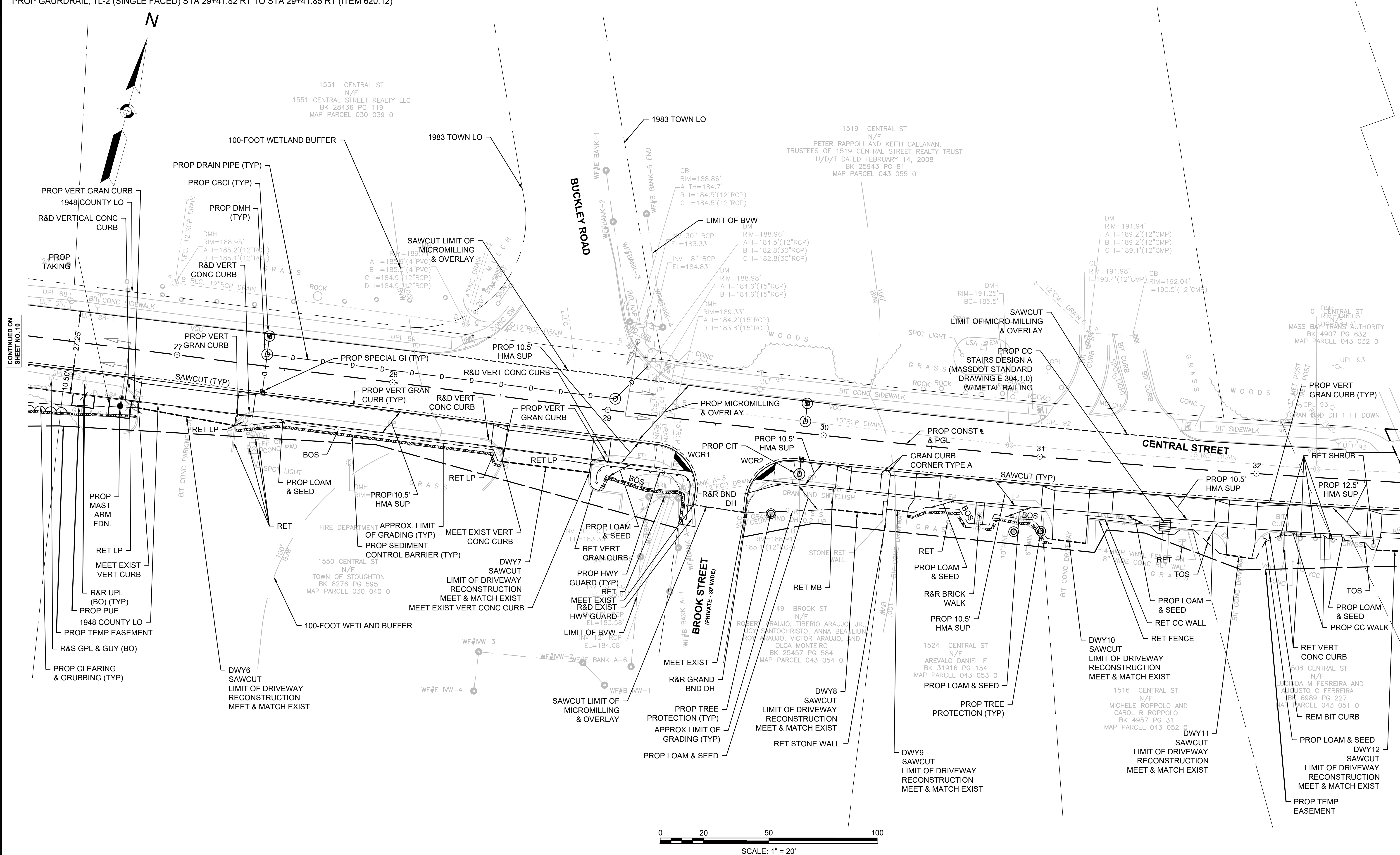
HIGHWAY GUARD DETAILS

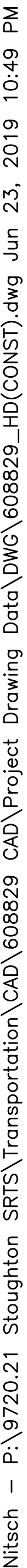
PROP GUARDRAIL, TL-2 (SINGLE FACED) STA 28+98.71 RT TO STA 28+98.71 RT (ITEM 620.12)
 PROP GUARDRAIL - CURVED, TL-2 (SINGLE FACED) (5' RADIUS) STA 28+98.71 RT TO STA 29+03.69 RT (ITEM 620.32)
 PROP GAURDRAIL, TL-2 (SINGLE FACED) STA 29+03.69 RT TO STA 29+38.85 RT (ITEM 620.12)
 PROP GUARDRAIL - CURVED, TL-2 (SINGLE FACED) (5' RADIUS) STA 29+36.85 RT TO STA 29+41.82 RT (ITEM 620.32)
 PROP GAURDRAIL, TL-2 (SINGLE FACED) STA 29+41.82 RT TO STA 29+41.85 RT (ITEM 620.12)

N/A

N/A

SEE SHEET 39





STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	13	105
PROJECT FILE NO.		608829	

SEE SHEET 41



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	14	105
PROJECT FILE NO.		608829	

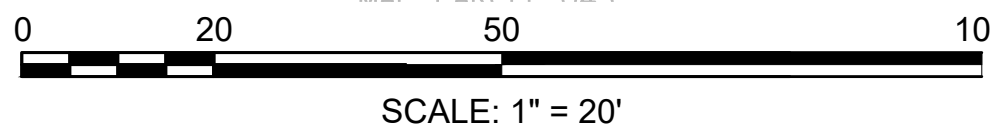
CONSTRUCTION PLAN

NONE

N/A

N/A

SEE SHEET 42



SCALE: 1" = 20'

CONTINUED ON

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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

N/A

WATER SUPPLY ALTERATIONS

N/A

DRAINAGE DETAILS

SEE SHEET 43

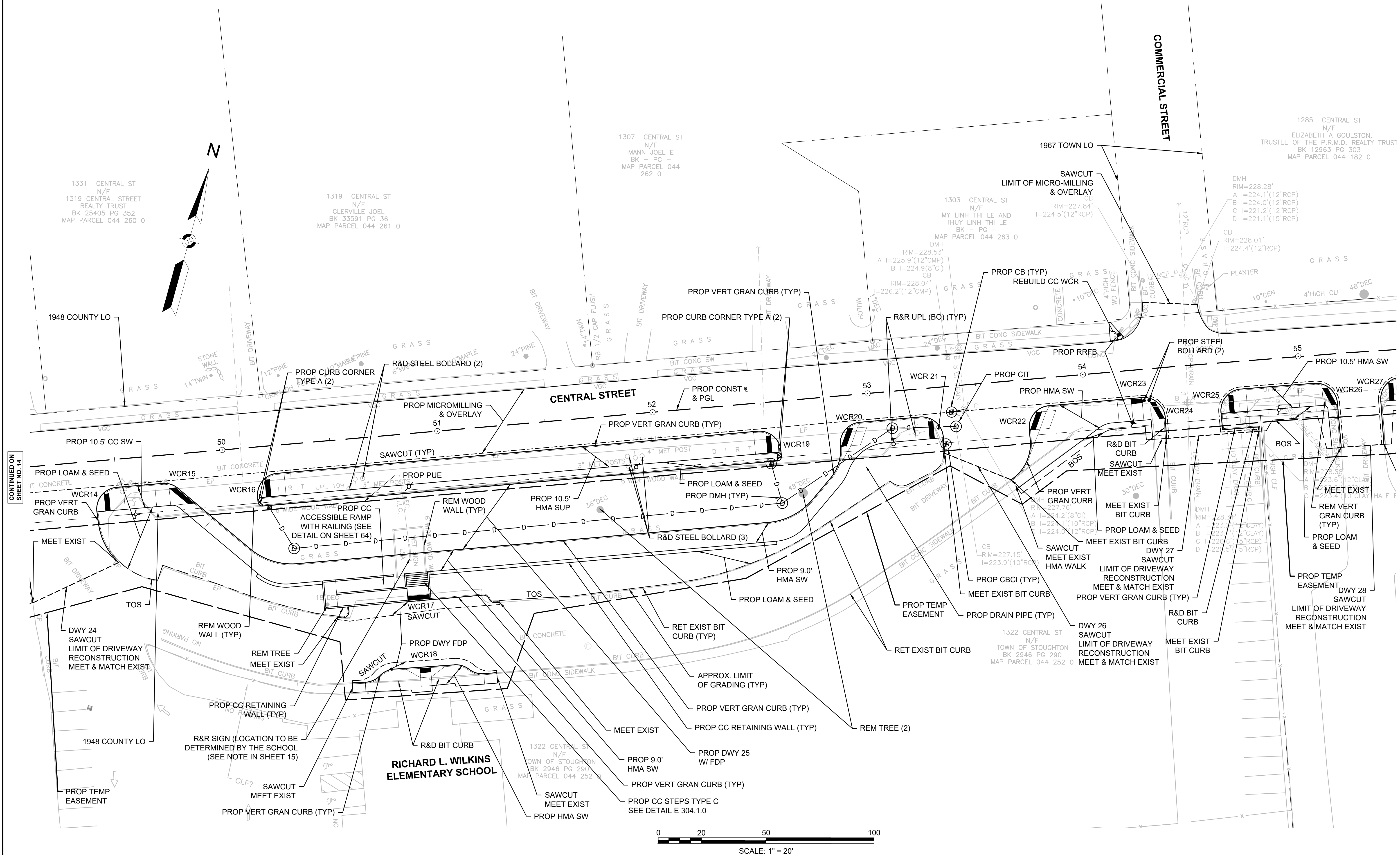
NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE SCHOOL ON THE RELOCATION OF THE SCHOOL SIGN. THE WORK SHALL INCLUDE BUT NOT LIMITED TO REMOVE AND RESET FOUNDATION AND THE SIGN, REINSTALL CONDUIT CONNECTION FROM NEARBY POWER SOURCE. THIS WORK WILL BE PAID UNDER ITEM 874.8.

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

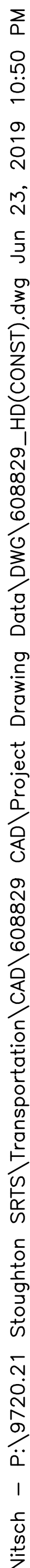
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	15	105
PROJECT FILE NO.		608829	

CONSTRUCTION PLAN



CONTINUED ON
SHEET NO. 14

CONTINUED ON
SHEET NO. 16

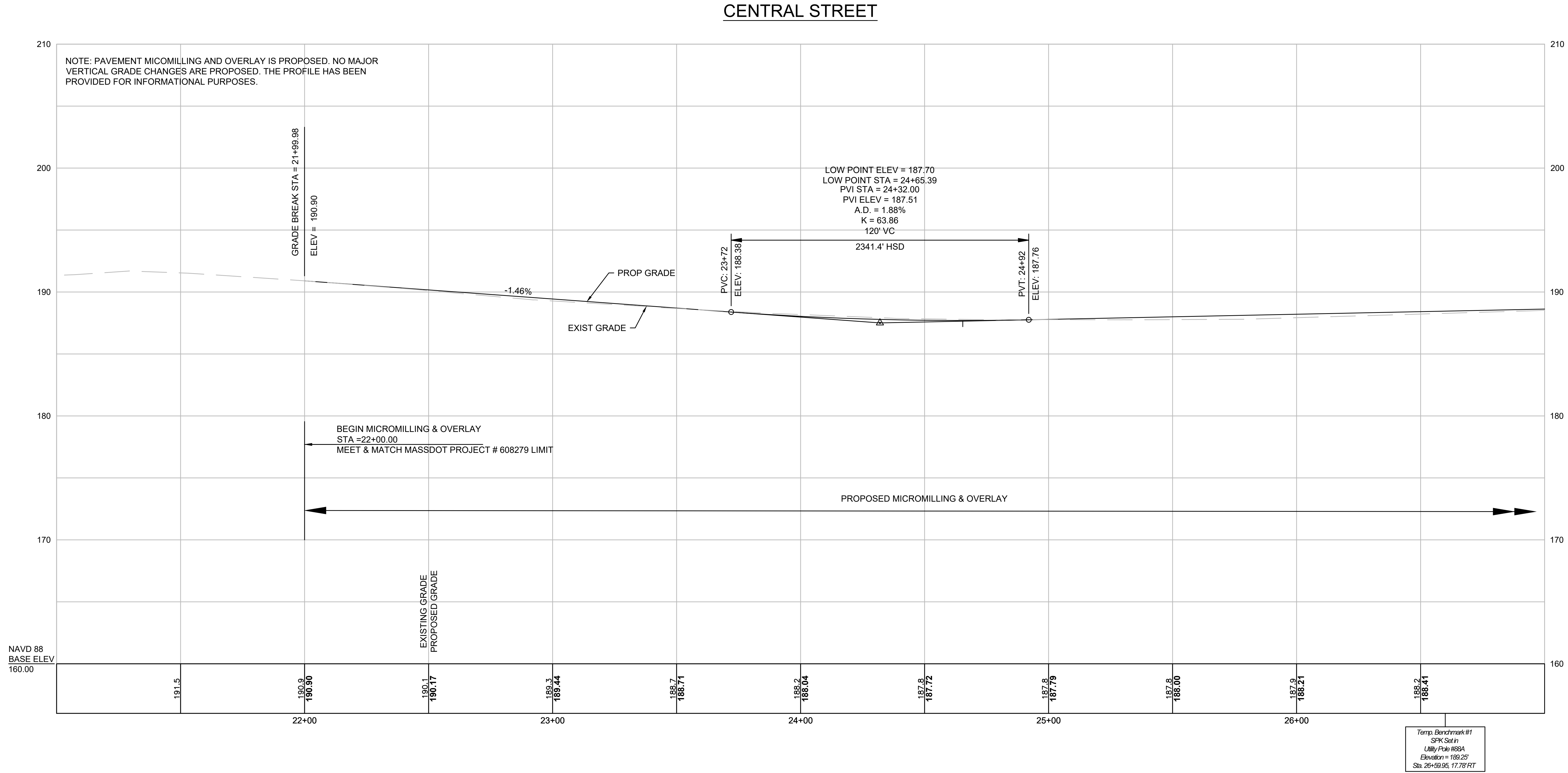


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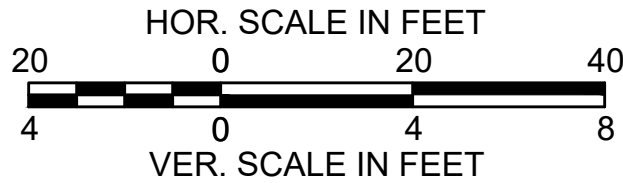
STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	105
PROJECT FILE NO.		608829	

PROFILE - CENTRAL STREET



FOR CONSTRUCTION PLANS: SEE SHEET NO. 10



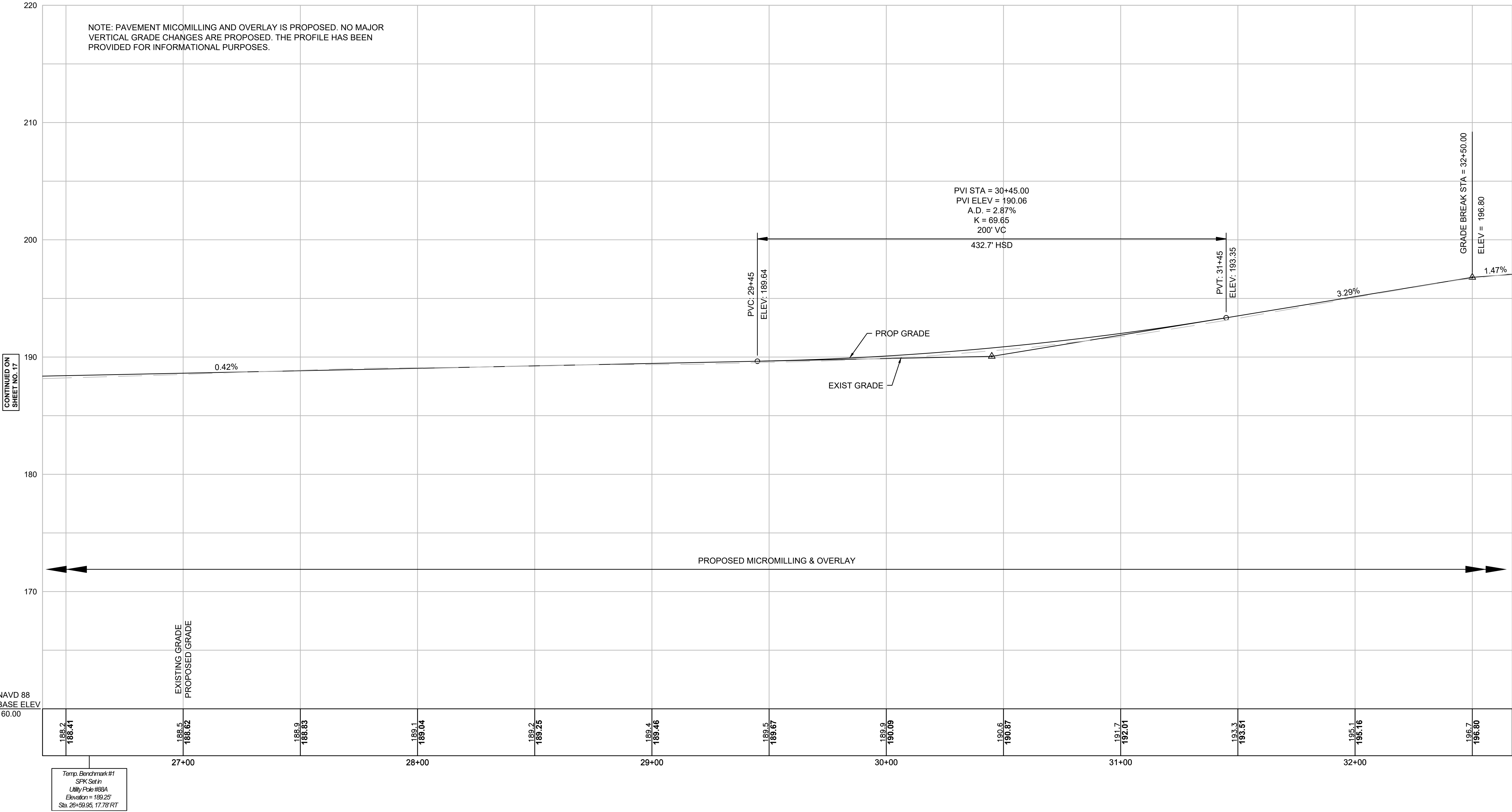
CONTINUED ON
SHEET NO. 18

CENTRAL STREET

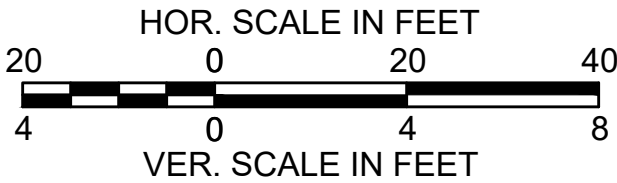
STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	18	105
PROJECT FILE NO.		608829	

PROFILE - CENTRAL STREET



FOR CONSTRUCTION PLANS: SEE SHEET NO. 11

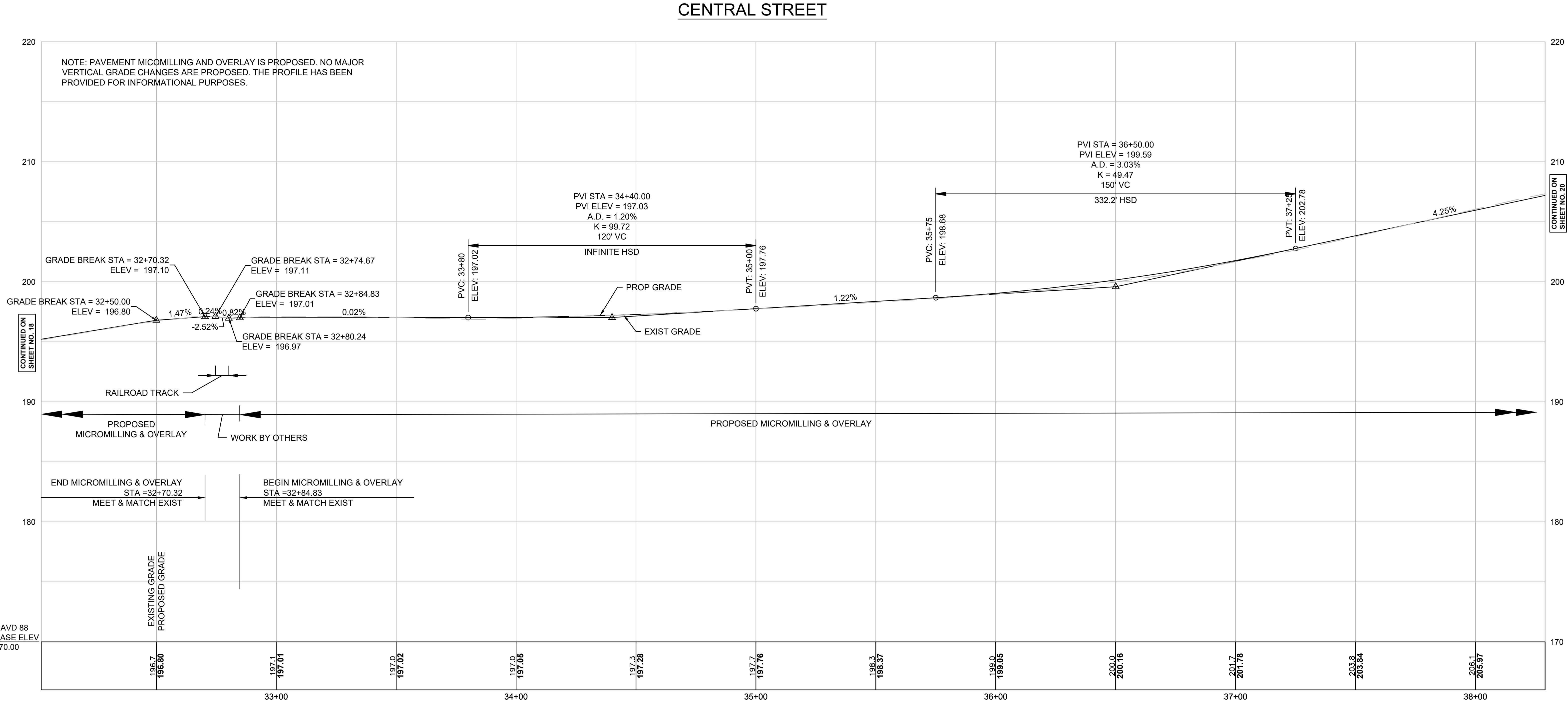


Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 Stoughton SRTS\CAD\Project Drawing Data\DWG\608829_HD(PROFILE).dwg Jun 23, 2019 10:51 PM

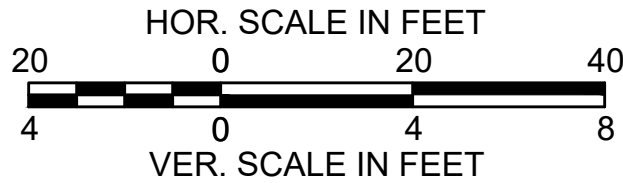
STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	19	105
PROJECT FILE NO.		608829	

PROFILE - CENTRAL STREET



FOR CONSTRUCTION PLANS: SEE SHEET NOS. 12

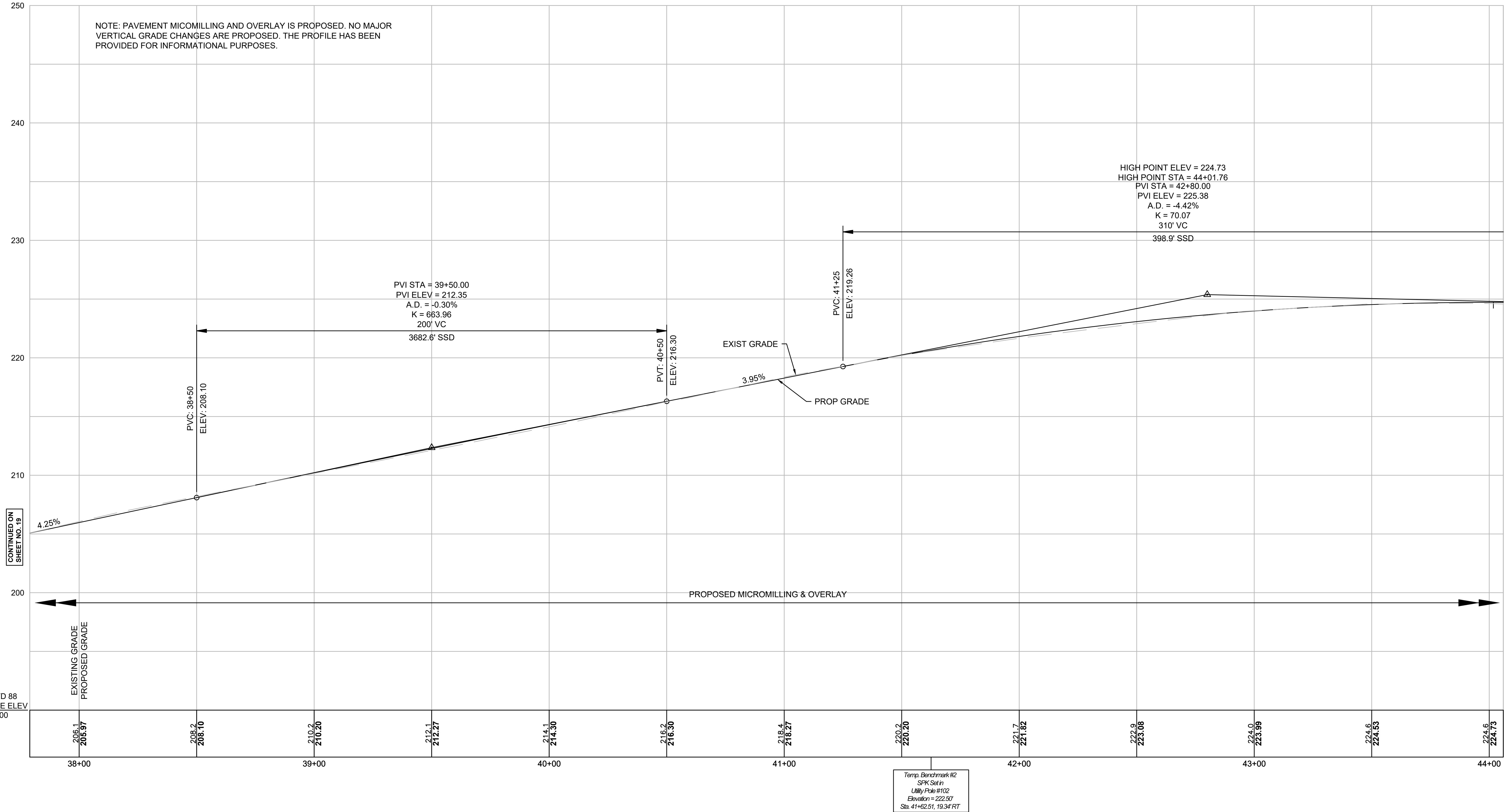


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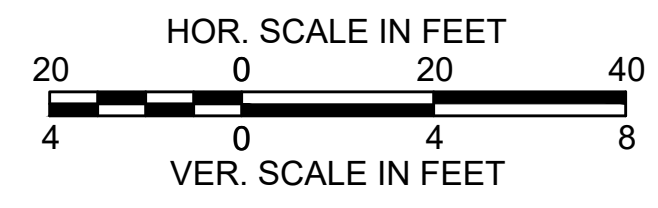
STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	20	105
PROJECT FILE NO.		608829	

PROFILE - CENTRAL STREET



FOR CONSTRUCTION PLANS: SEE SHEET NOS. 13

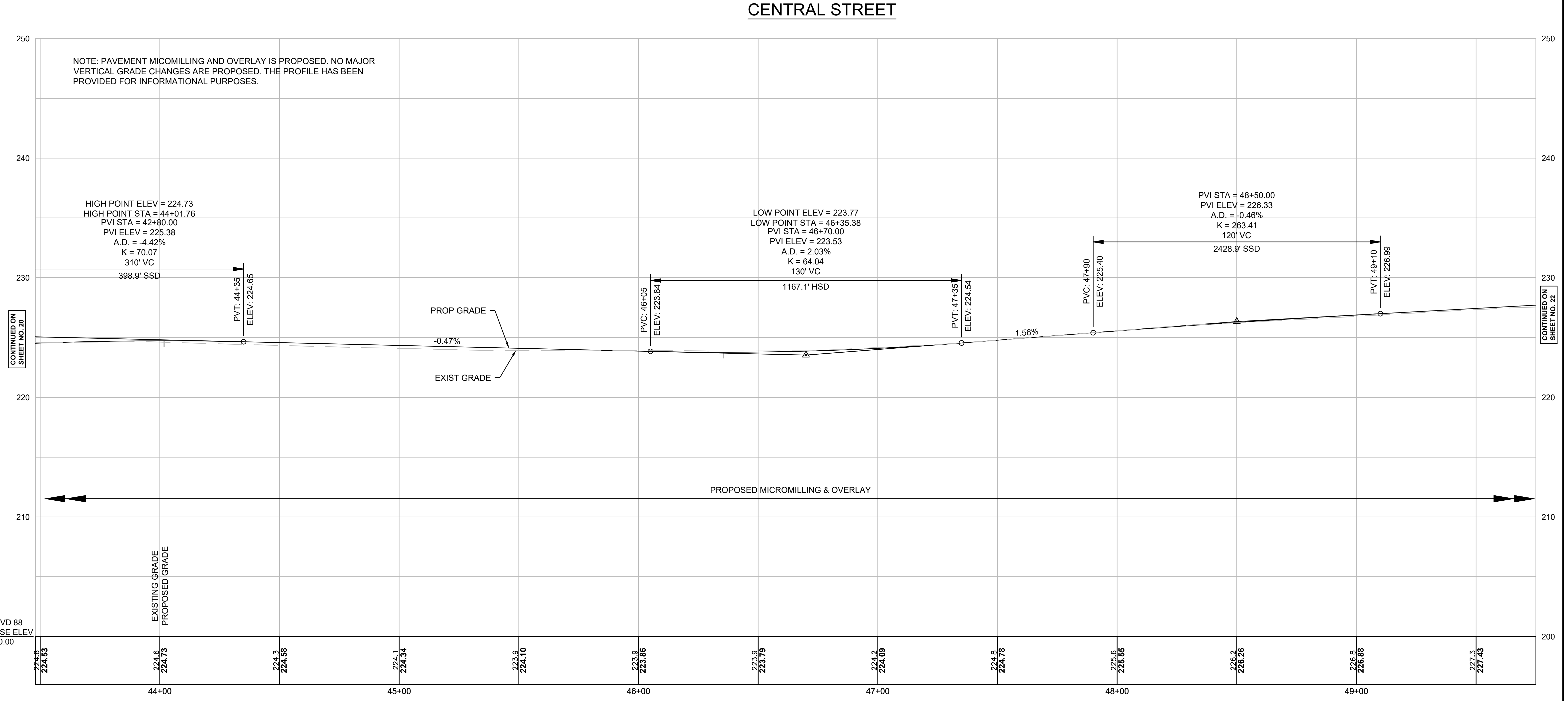


Nitech - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(PROFILE).dwg Jun 23, 2019 10:51 PM

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	21	105
PROJECT FILE NO.		608829	

PROFILE - CENTRAL STREET



FOR CONSTRUCTION PLANS: SEE SHEET NOS. 14

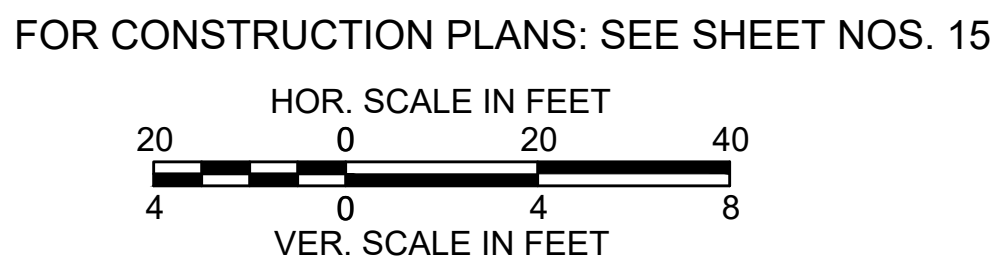
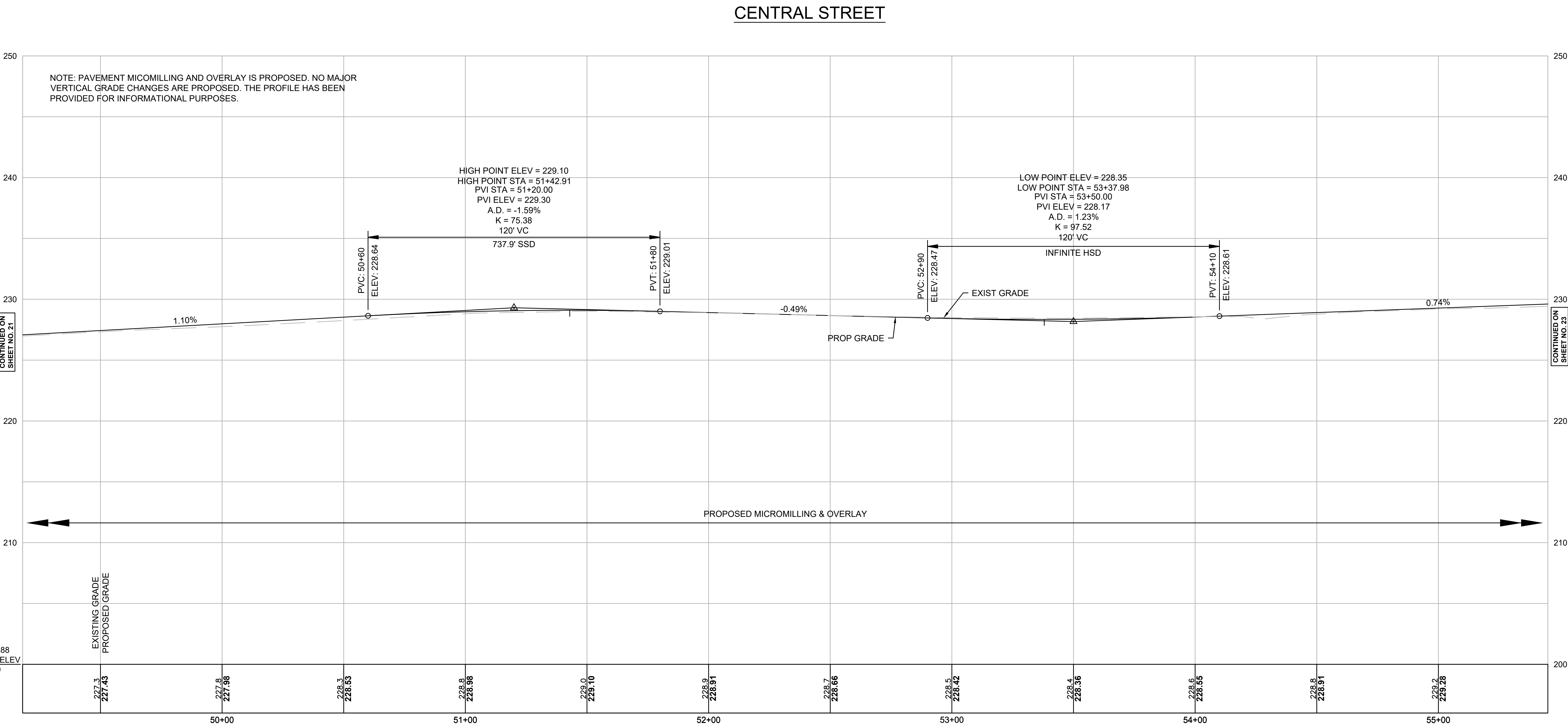
HOR. SCALE IN FEET
20 0 20 40
4 0 4 8
VER. SCALE IN FEET

Nitech - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(PROFILE).dwg Jun 23, 2019 10:52 PM

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	22	105
PROJECT FILE NO.		608829	

PROFILE - CENTRAL STREET



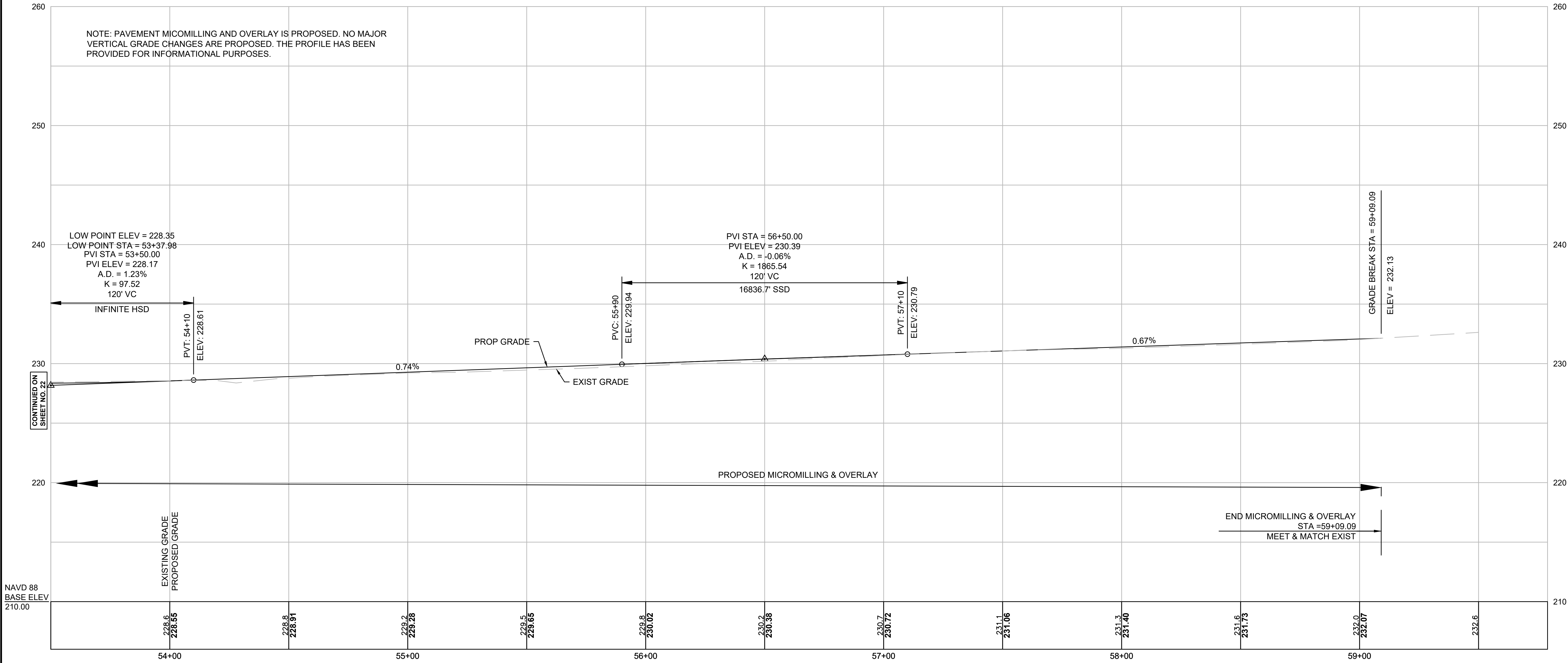
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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

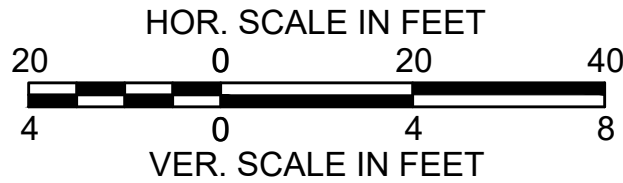
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	23	105
PROJECT FILE NO.		608829	

PROFILE - CENTRAL STREET

CENTRAL STREET



FOR CONSTRUCTION PLANS: SEE SHEET NOS. 16

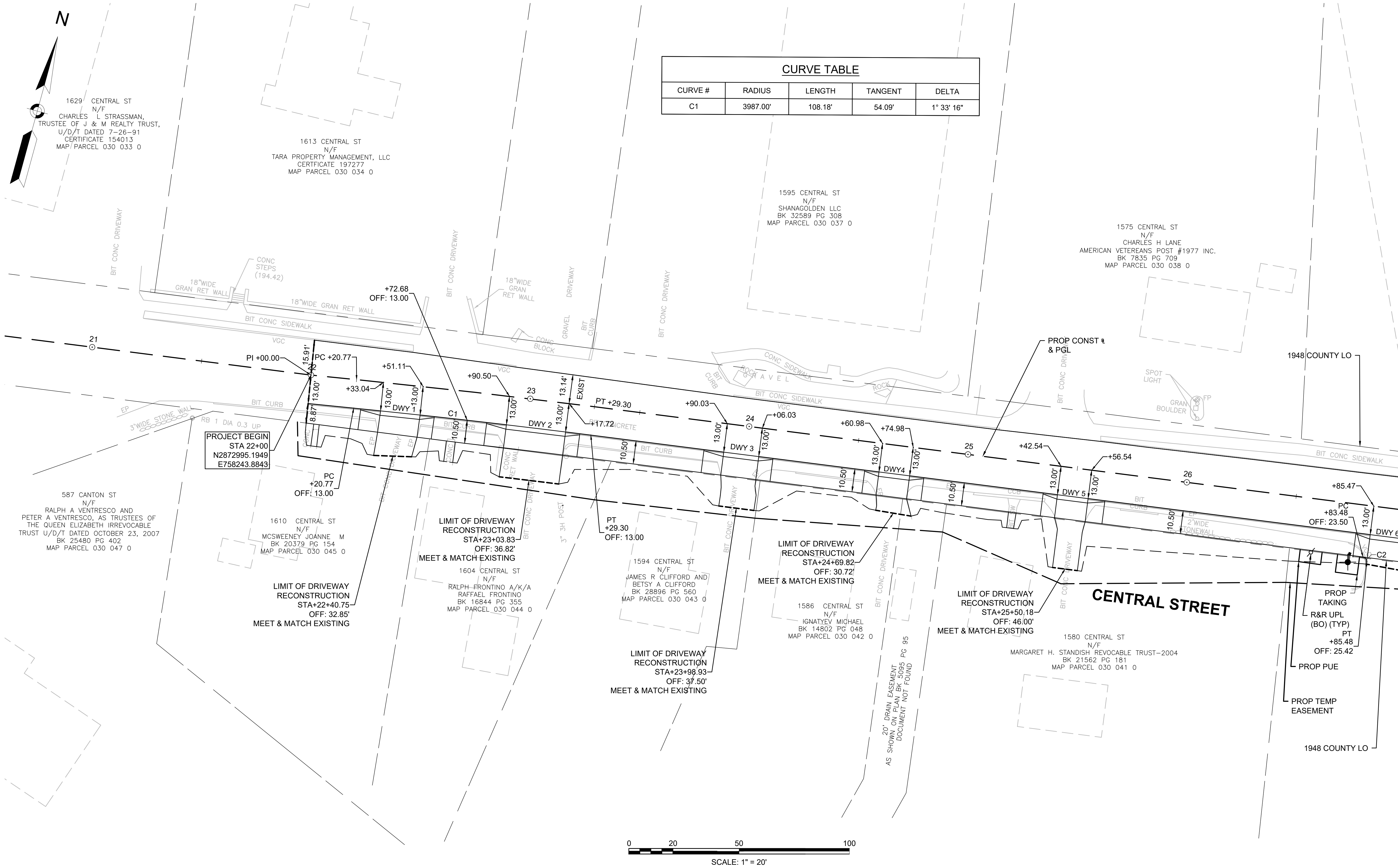


STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

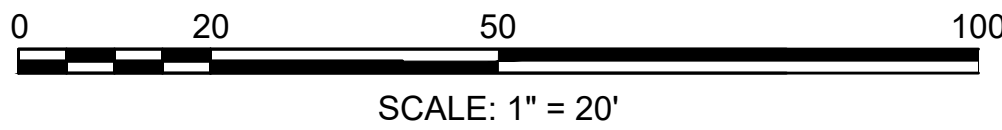
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	24	105

PROJECT FILE NO. 608829

CURB TIE PLAN

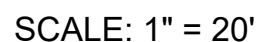


CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C1	3987.00'	108.18'	54.09'	1° 33' 16"



CONTINUED ON
SHEET NO. 25

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	25	105
PROJECT FILE NO.		608829	



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	26	105
PROJECT FILE NO.		608829	

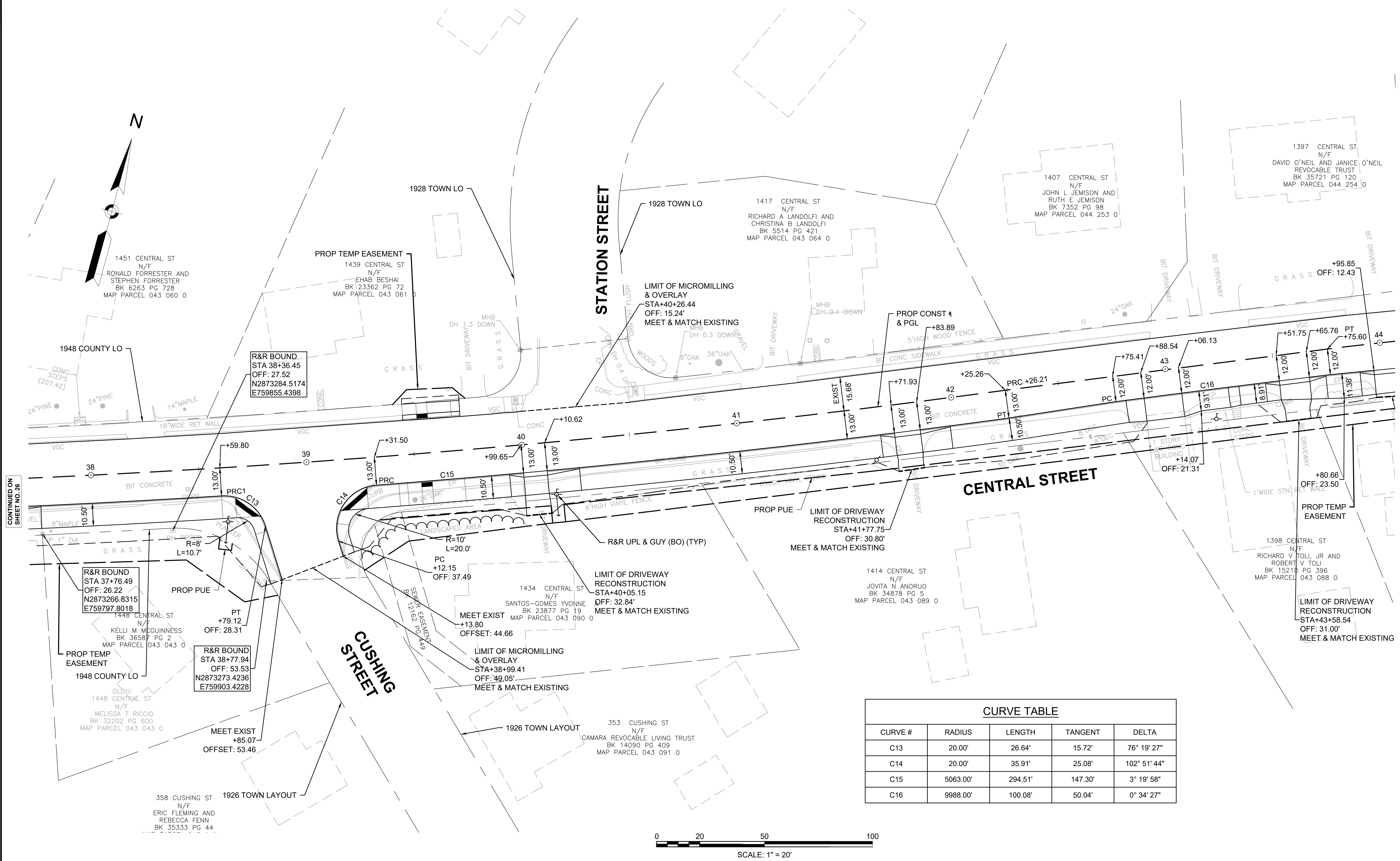


STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

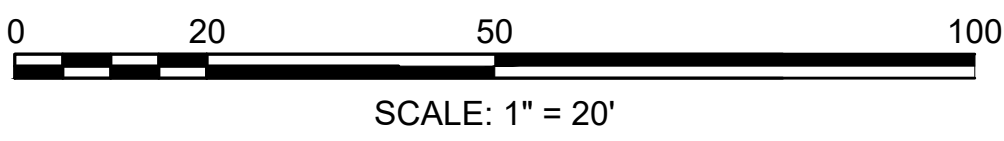
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	27	105

PROJECT FILE NO. 608829

CURB TIE PLAN



CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C13	20.00'	26.64'	15.72'	76° 19' 27"
C14	20.00'	35.91'	25.08'	102° 51' 44"
C15	5063.00'	294.51'	147.30'	3° 19' 58"
C16	9988.00'	100.08'	50.04'	0° 34' 27"



CONTINUED ON
SHEET NO. 26

CONTINUED ON
SHEET NO. 28

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	105
PROJECT FILE NO.		608829	

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	28	105
PROJECT FILE NO.		608829	

CURVE TABLE

CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C17	9987.00'	136.45'	68.23'	0° 46' 58"
C18	10.00'	18.77'	13.64'	107° 31' 28"
C20	30.00'	10.74'	5.43'	20° 30' 56"
C21	10.00'	15.25'	9.56'	87° 24' 03"
C22	10.00'	16.16'	10.46'	92° 35' 57"
C23	30.00'	20.71'	10.79'	39° 32' 56"



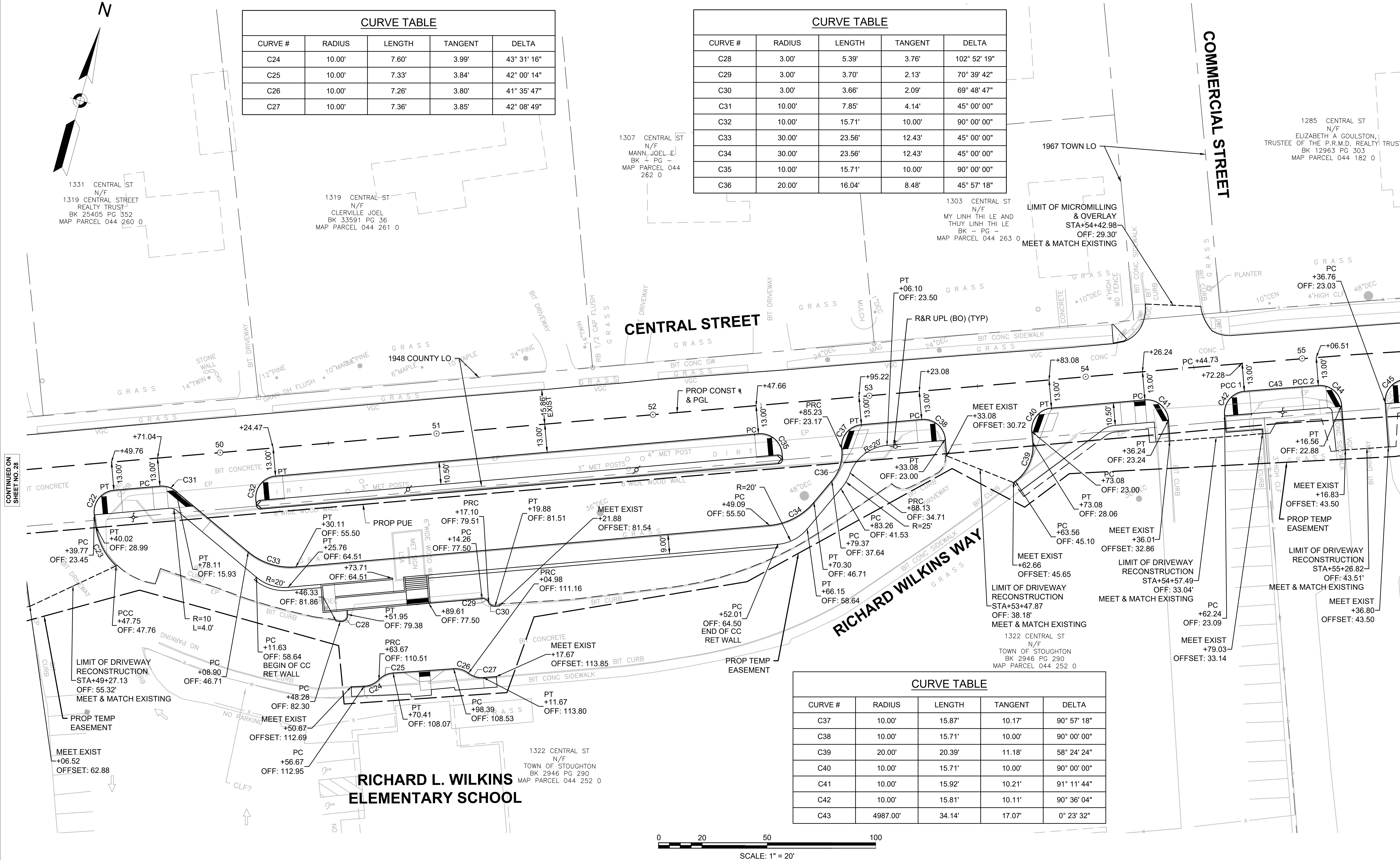
SCALE: 1" = 20'

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	29	105

PROJECT FILE NO. 608829

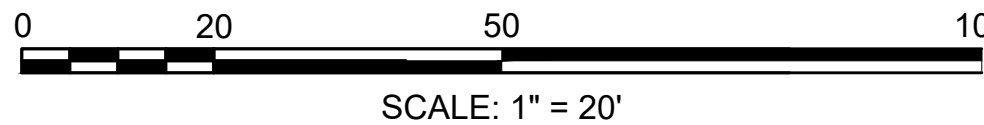
CURB TIE PLAN



CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C24	10.00'	7.60'	3.99'	43° 31' 16"
C25	10.00'	7.33'	3.84'	42° 00' 14"
C26	10.00'	7.26'	3.80'	41° 35' 47"
C27	10.00'	7.36'	3.85'	42° 08' 49"

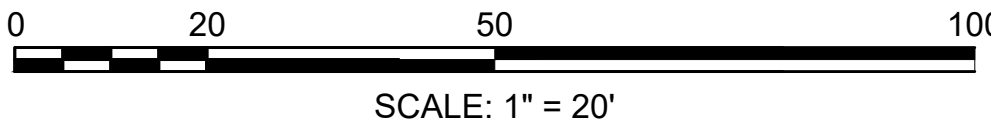
CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C28	3.00'	5.39'	3.76'	102° 52' 19"
C29	3.00'	3.70'	2.13'	70° 39' 42"
C30	3.00'	3.66'	2.09'	69° 48' 47"
C31	10.00'	7.85'	4.14'	45° 00' 00"
C32	10.00'	15.71'	10.00'	90° 00' 00"
C33	30.00'	23.56'	12.43'	45° 00' 00"
C34	30.00'	23.56'	12.43'	45° 00' 00"
C35	10.00'	15.71'	10.00'	90° 00' 00"
C36	20.00'	16.04'	8.48'	45° 57' 18"

CURVE TABLE				
CURVE #	RADIUS	LENGTH	TANGENT	DELTA
C37	10.00'	15.87'	10.17'	90° 57' 18"
C38	10.00'	15.71'	10.00'	90° 00' 00"
C39	20.00'	20.39'	11.18'	58° 24' 24"
C40	10.00'	15.71'	10.00'	90° 00' 00"
C41	10.00'	15.92'	10.21'	91° 11' 44"
C42	10.00'	15.81'	10.11'	90° 36' 04"
C43	4987.00'	34.14'	17.07'	0° 23' 32"

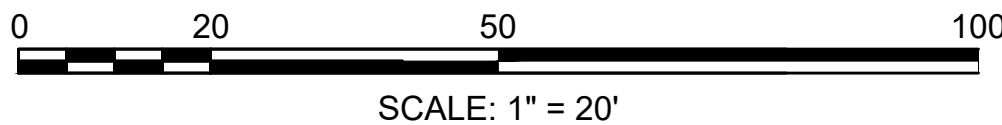


CONTINUED ON
SHEET NO. 30

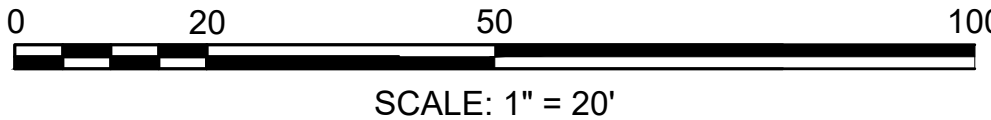
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	30	105
PROJECT FILE NO.		608829	



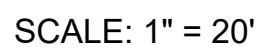
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MA	-	31	105
PROJECT FILE NO.		608829	



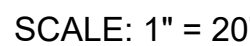
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	32	105
PROJECT FILE NO.		608829	



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	33	105
PROJECT FILE NO.		608829	



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	34	105
PROJECT FILE NO.		608829	

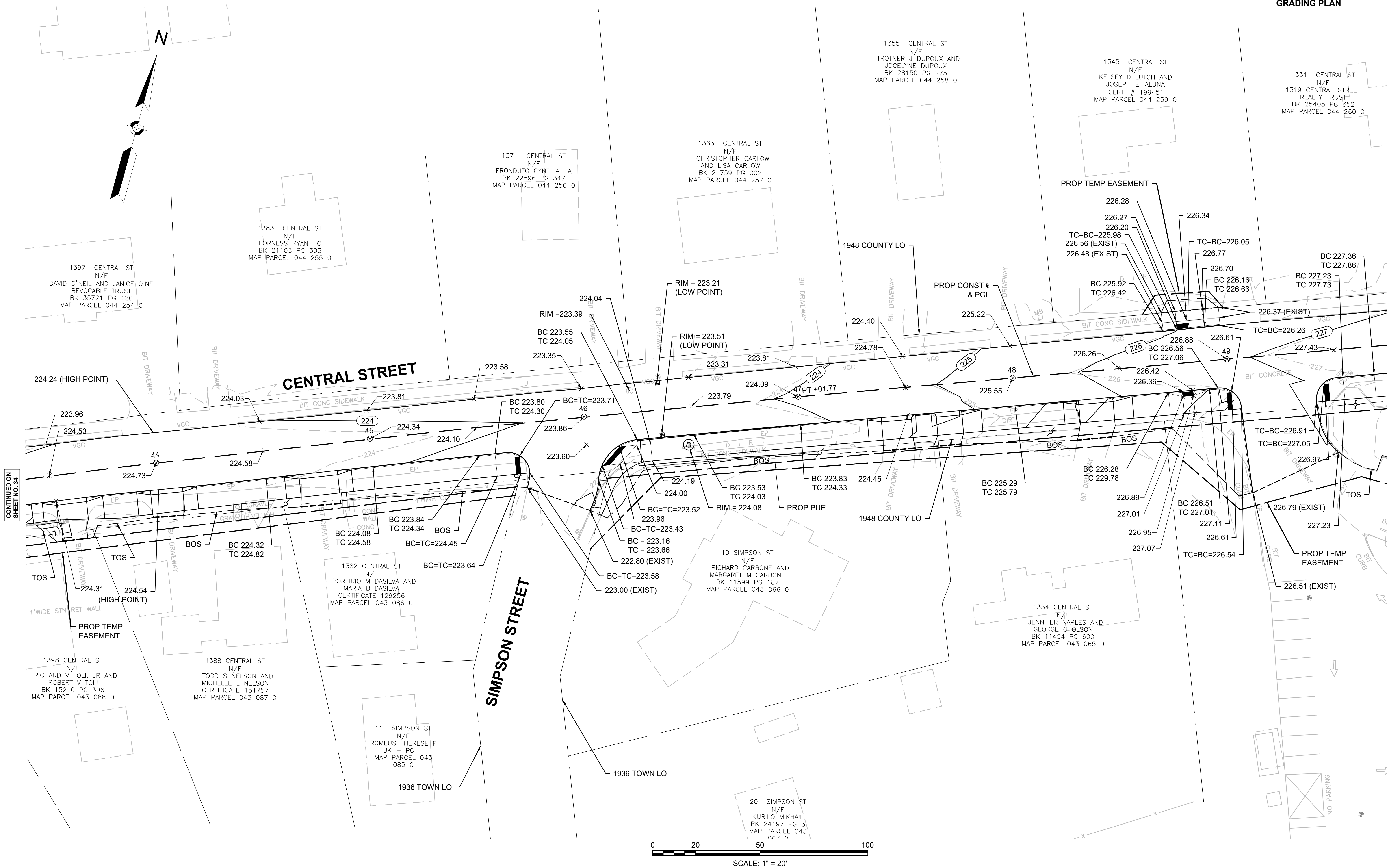


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	35	105
PROJECT FILE NO.		608829	

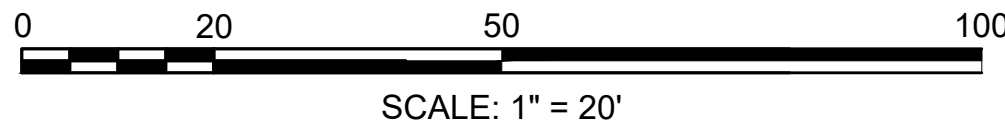
GRADING PLAN

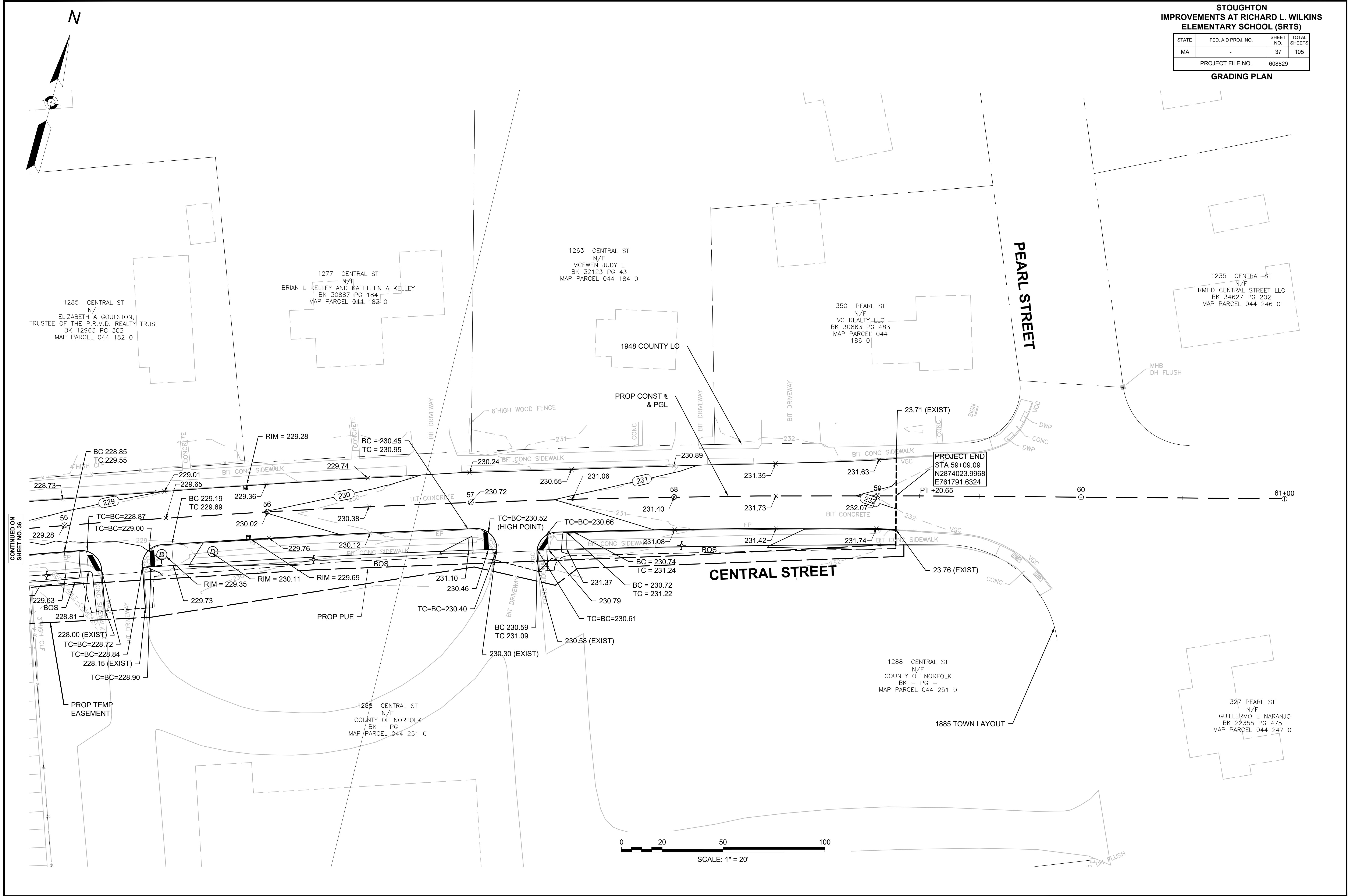


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SHEET NO. 34

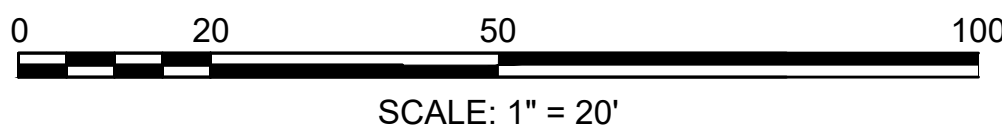
CONTINUED ON
SHEET NO. 36

COMMERCIAL STREET



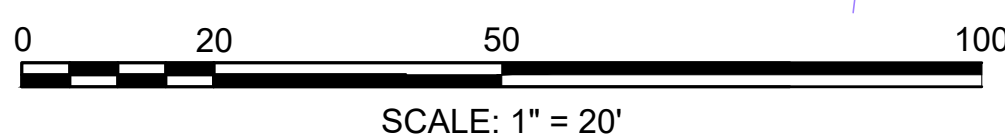


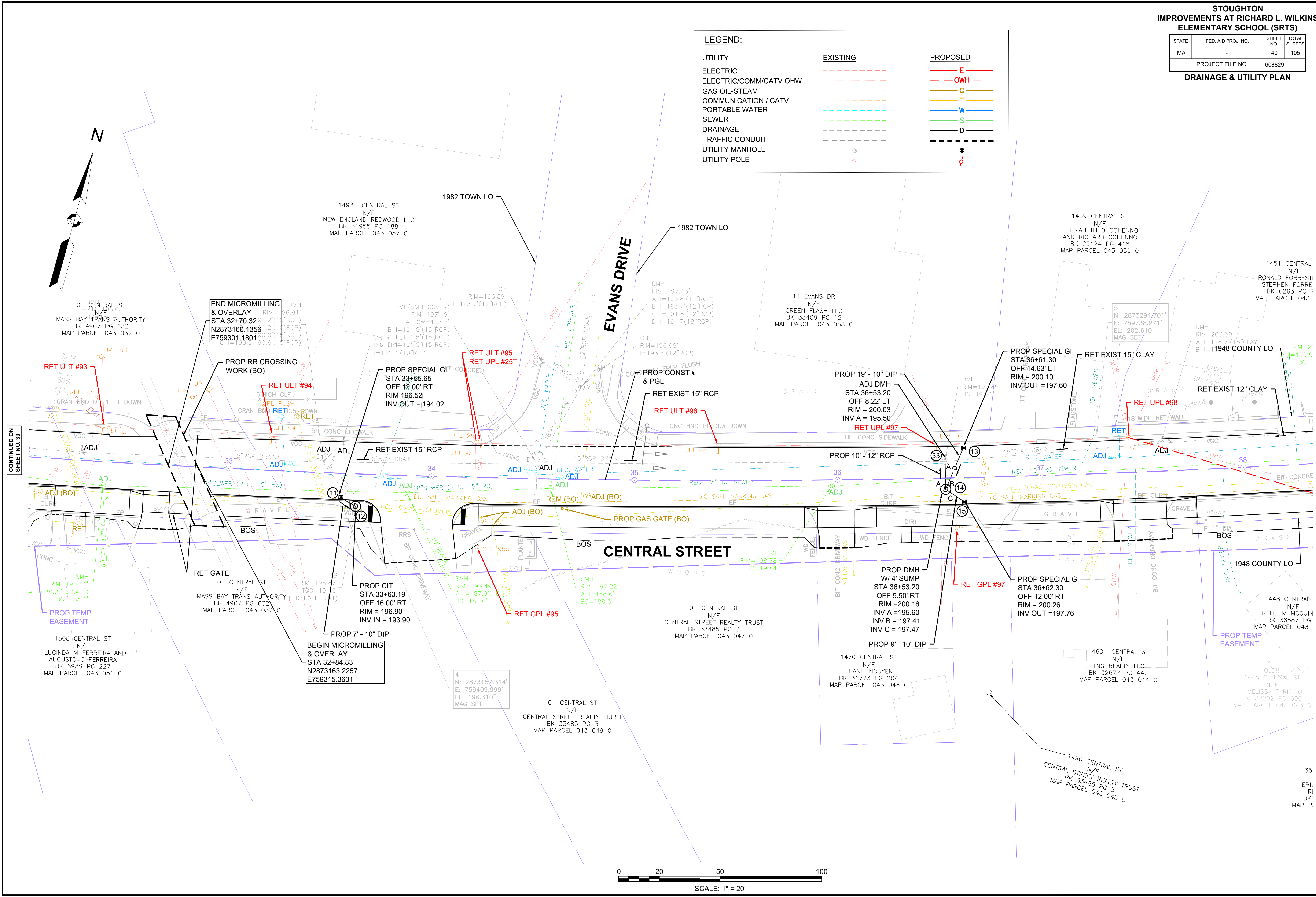
DRAINAGE & UTILITY PLAN



DRAINAGE & UTILITY PLAN

LEGEND:		
<u>UTILITY</u>	<u>EXISTING</u>	<u>PROPOSED</u>
ELECTRIC	---	— E —
ELECTRIC/COMM/CATV OHW	---	— OWH —
GAS-OIL-STEAM	---	— G —
COMMUNICATION / CATV	---	— T —
PORTABLE WATER	---	— W —
SEWER	---	— S —
DRAINAGE	---	— D —
TRAFFIC CONDUIT	---	— — — — —
UTILITY MANHOLE	⊙	⊙
UTILITY POLE	⊕	⊕





LEGEND:

UTILITY	EXISTING	PROPOSED
ELECTRIC	---	---
ELECTRIC/COMM/CATV OHW	---	---
GAS-OIL-STEAM	---	---
COMMUNICATION / CATV	---	---
PORTABLE WATER	---	---
SEWER	---	---
DRAINAGE	---	---
TRAFFIC CONDUIT	---	---
UTILITY MANHOLE	---	---
UTILITY POLE	---	---

**STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	40	105

PROJECT FILE NO. 608829

DRAINAGE & UTILITY PLAN

CONTINUED ON
SHEET NO. 39

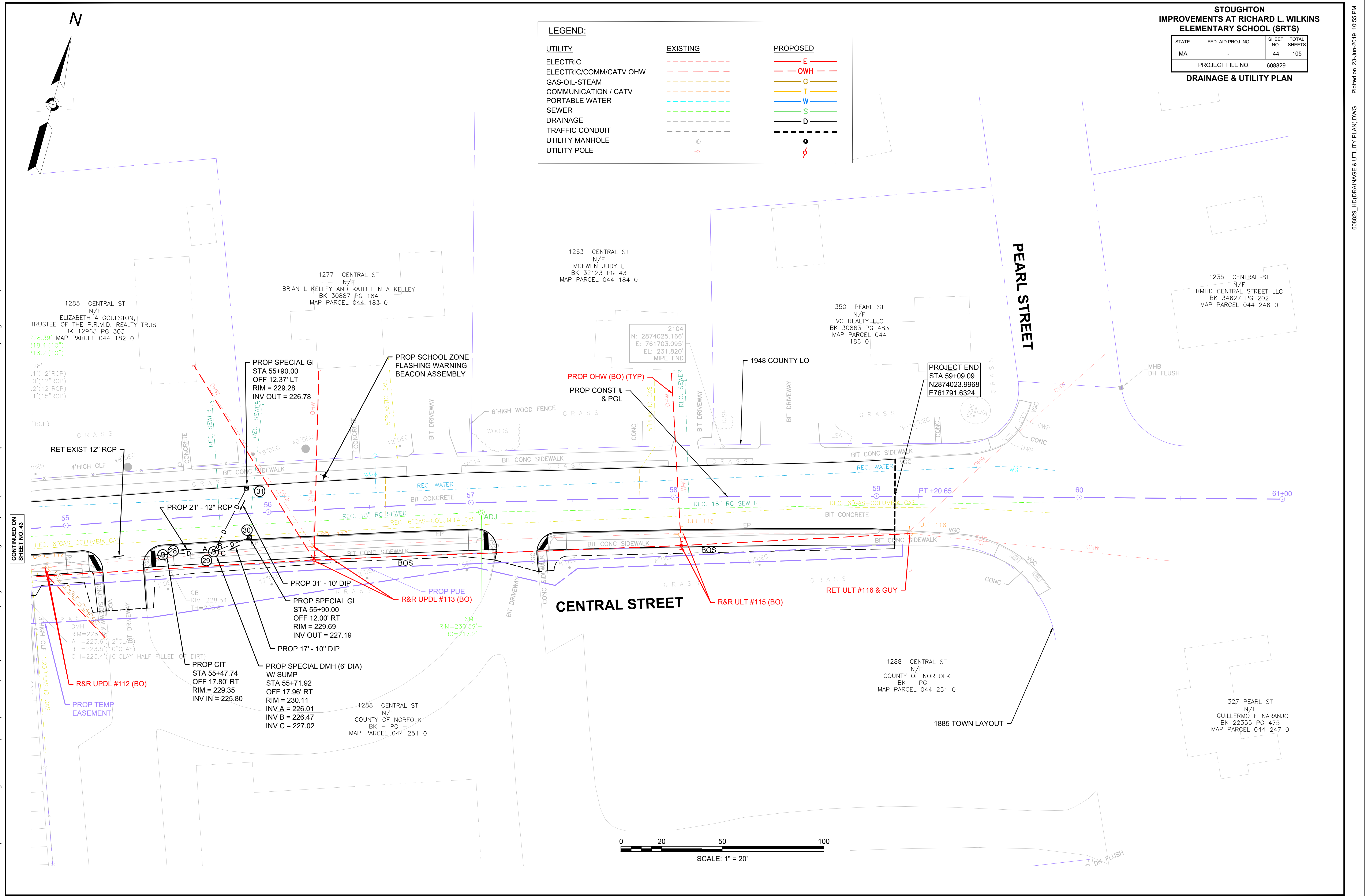
CONTINUED ON
SHEET NO. 41

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	41	105
PROJECT FILE NO.		608829	

LEGEND:

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	42	105
PROJECT FILE NO.		608829	

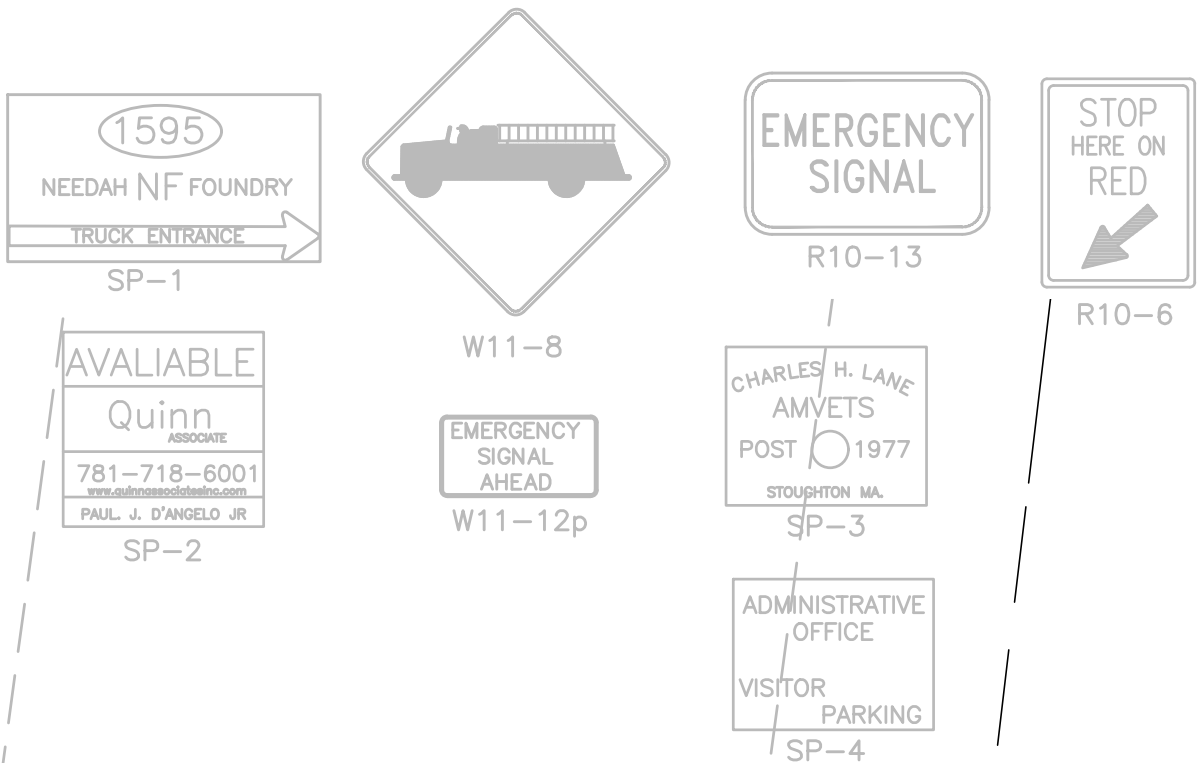




TRAFFIC SIGN AND PAVEMENT MARKINGS NOTES

1. ALL EXISTING SIGNS AND SIGN POSTS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL PROPOSED PAVEMENT MARKINGS WITHIN THE LIMIT OF WORK SHALL BE THERMOPLASTIC. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED BY MASSDOT APPROVED METHOD.
3. ALL PROPOSED SIGN POSTS SHALL BE P-5 TYPE (TELESCOPIC POST) UNLESS NOTED OTHERWISE.
4. PROPOSED PAVEMENT MARKINGS (LEGENDS & ARROWS) SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD & MASSDOT STANDARD DRAWINGS.
5. ALL PROPOSED SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MUTCD AND MASSDOT STANDARDS.
6. EXACT LOCATIONS OF PROPOSED SIGNS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
7. ALL SIGN PANELS SHALL BE 90° TO THE CURB AND FACING THE FLOW OF TRAFFIC EXCEPT PARKING REGULATION SIGNS.
8. ALL SIGNS TO BE R&R SHALL BE MOUNTED ON NEW POSTS, UNLESS OTHERWISE NOTED.
9. SIGNS TO BE MOUNTED NEAR THE CURB LINE SHALL BE SET BACK 12" FROM THE EDGE OF THE SIGN PANEL TO THE CURB LINE. NO SIGN SHALL OVERHANG THE CURB LINE.
10. ALL SIGNS SHALL BE MOUNTED TO PROVIDE A 7.0' MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND FINISH GRADE EXCEPT OBJECT MARKER SIGNS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TREE TRIMMING WHERE NECESSARY TO IMPROVE VISIBILITY OF PROPOSED SIGNS.
12. SEE SHEET 52 FOR PROPOSED SIGN LEGENDS.
13. SEE SHEET 2-3 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.

EXISTING SIGN LEGEND

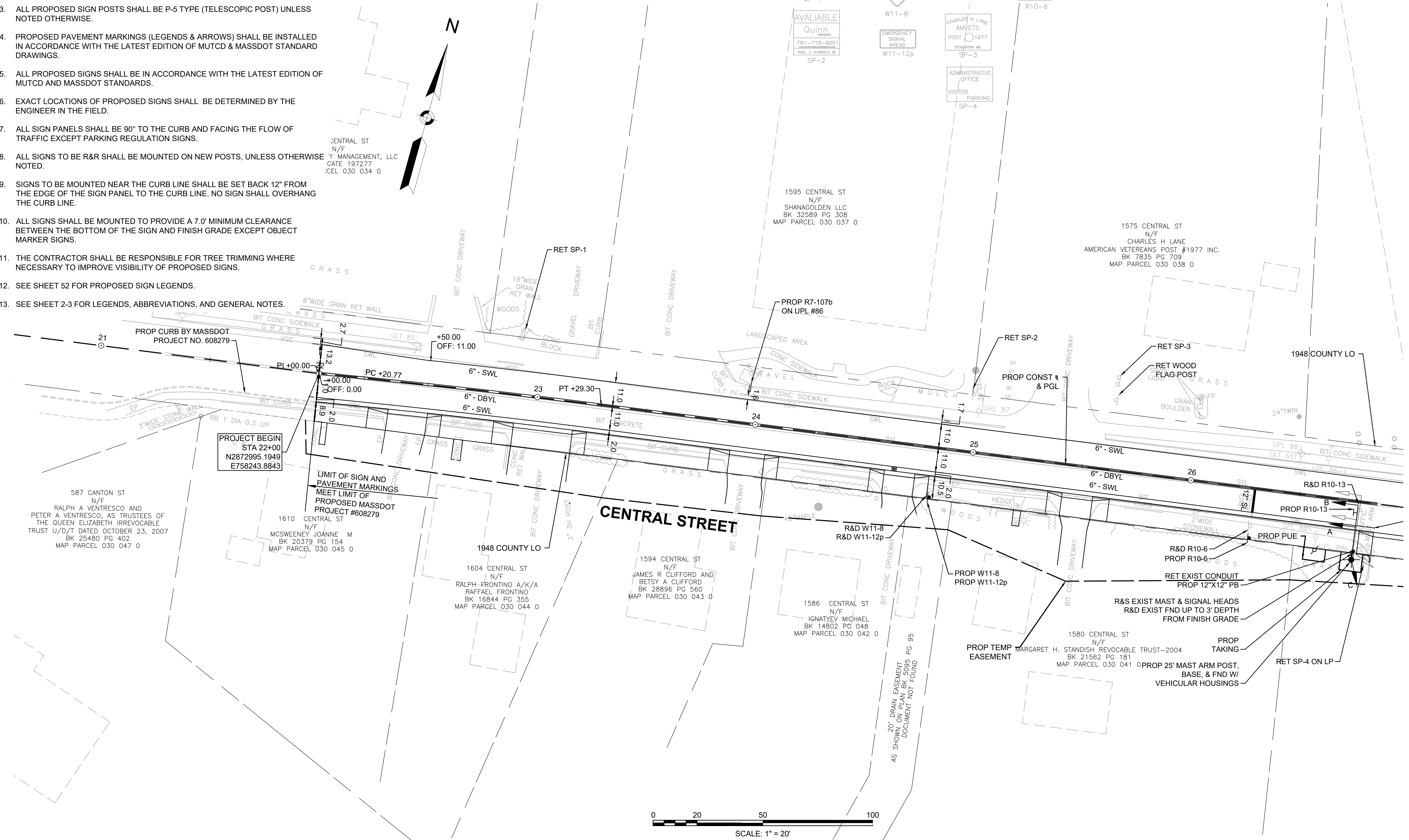


STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	45	105

PROJECT FILE NO. 608829

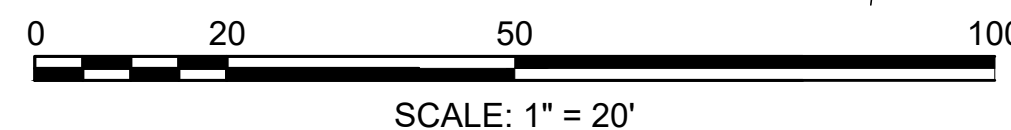
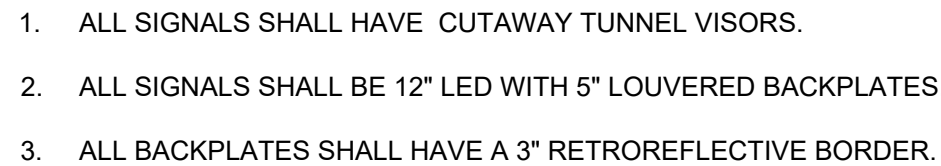
SIGN & PAVEMENT MARKINGS PLAN



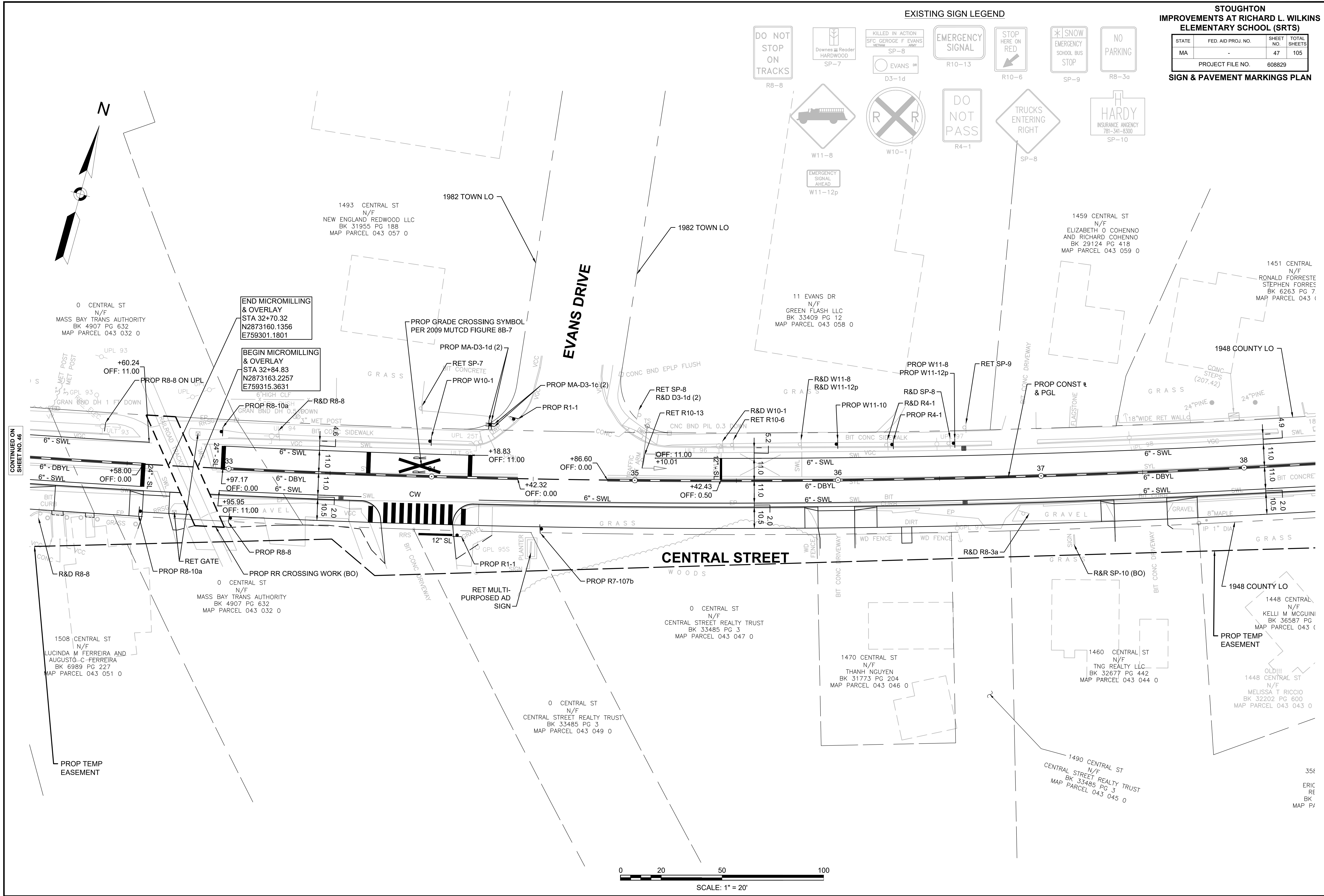
CONTINUED ON
SHEET NO. 46

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	46	105
PROJECT FILE NO.		608829	

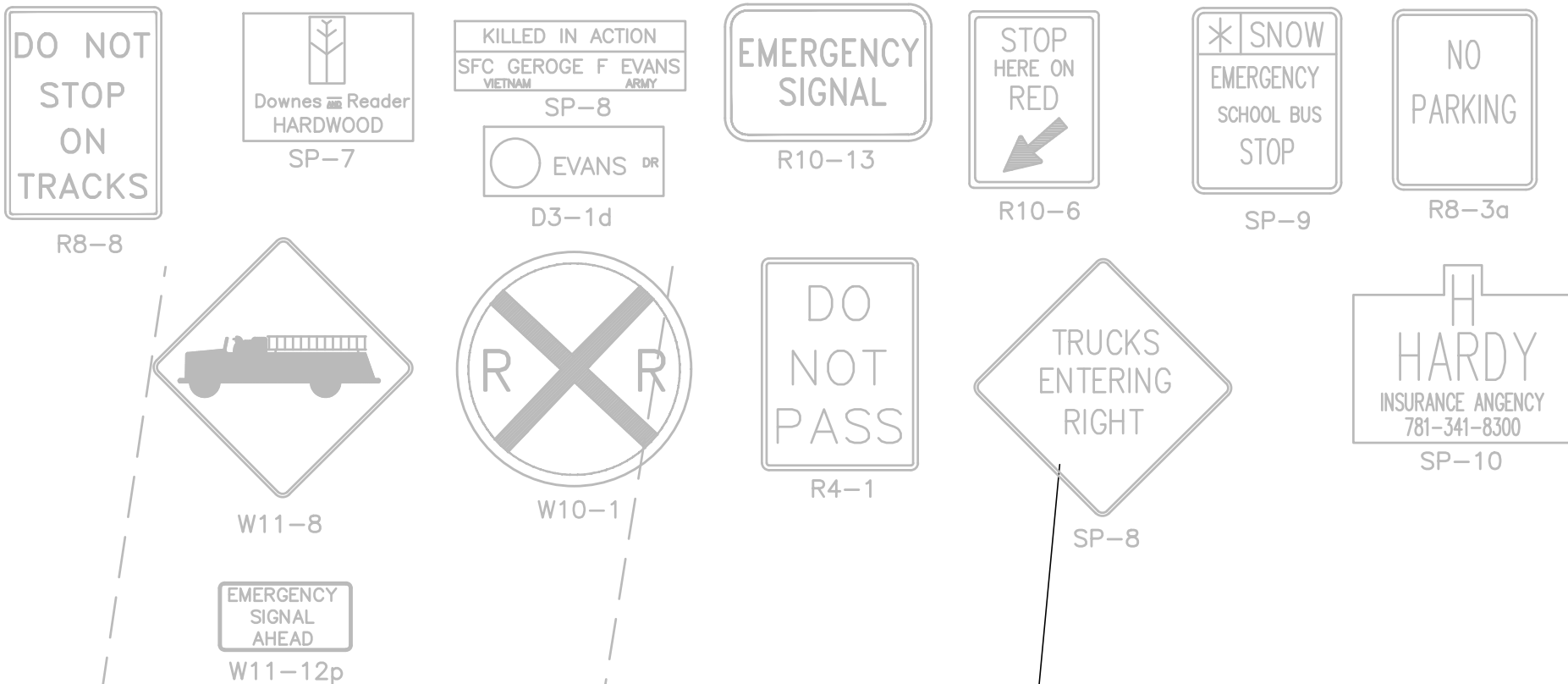
SIGN & PAVEMENT MARKINGS PLAN



1. RET ALL EXISTING TRAFFIC SIGNAL EQUIPMENTS, PILLBOXES AND CONDUITS IN PLACE' UNLESS OTHERWISE NOTED.
2. CONSTRUCTION OF THE TRAFFIC CONTROL SIGNAL SYSTEM SHALL CONFORM TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION'S (MASSDOT) "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", 1988 ED. AS AMENDED, AND THE 2009 FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", (MUTCD) LATEST EDITION AS AMENDED.
3. ALL VEHICLE INDICATIONS MOUNTED ON MAST ARMS SHALL BE FIXED MOUNTED AND BE EQUIPPED WITH 5" LOUVERED BACKPLATES.
4. POLE MOUNTED SIGNALS SHALL BE MOUNTED TO PROVIDE A 2 FOOT MINIMUM CLEARANCE BETWEEN VERTICAL PROJECTION OF THE CURB LINE AND SIGNAL VISOR. PROVIDE SPECIAL MOUNTING HARDWARE AS REQUIRED.
5. SEE DETAIL ON SHEET 62 FOR ALL SIGNAL CONDUIT CROSSING SIDEWALK AND GRASS.
6. PULL BOXES SHALL BE GROUNDED USING THE FOLLOWING MASSDOT STANDARD DETAILS: 811.31.1/811.32.1, 811.31.2/811.32.2, 811.33.0 FOUND IN THE SPECIAL PROVISION.



EXISTING SIGN LEGEND



STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

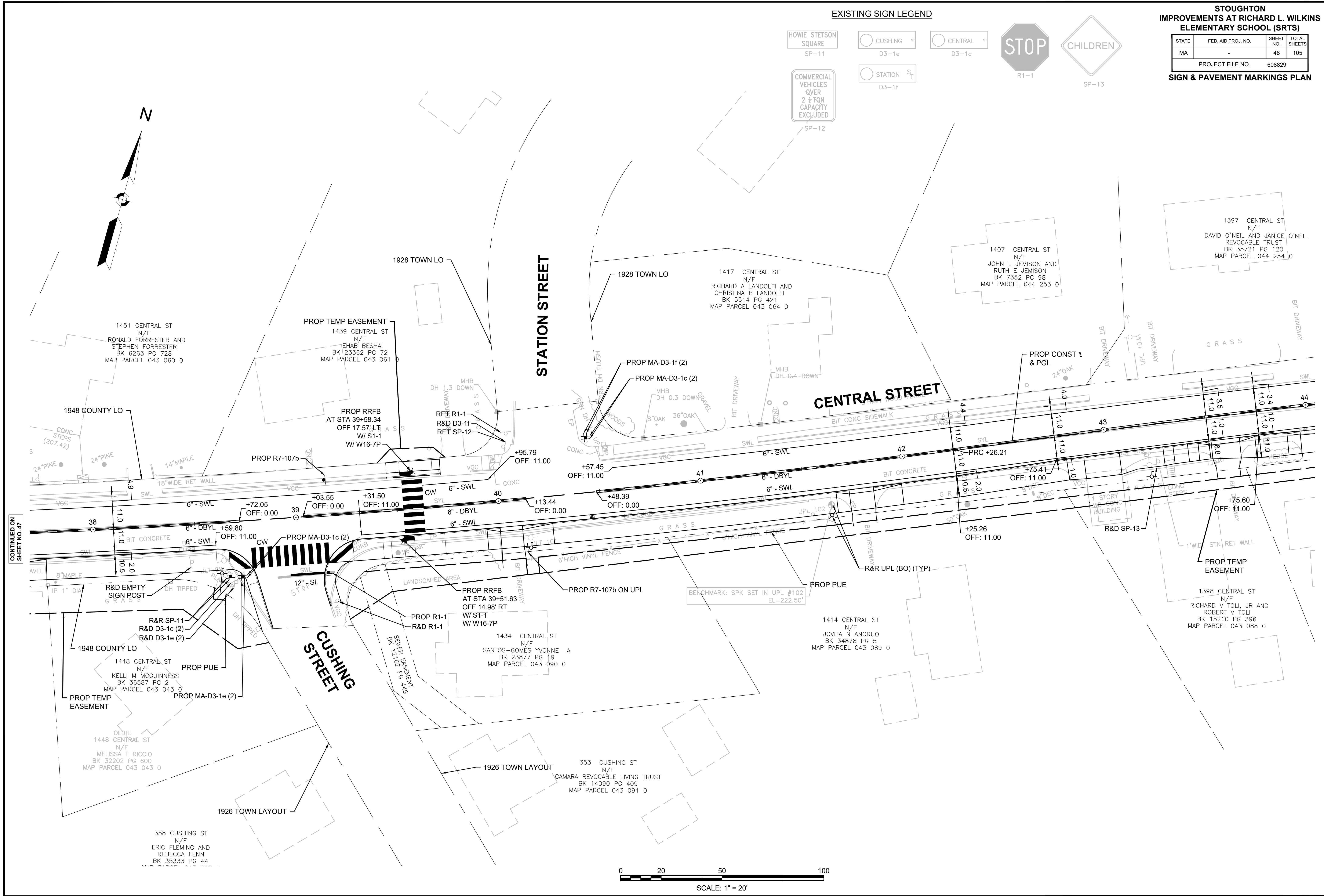
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	47	105
PROJECT FILE NO.		608829	

SIGN & PAVEMENT MARKINGS PLAN

CONTINUED ON
SHEET NO. 46

CONTINUED ON
SHEET NO. 48

358
ERIC
RE
BK
MAP P/



EXISTING SIGN LEGEND

HOWIE STETSON SQUARE
SP-11

COMMERCIAL VEHICLES
OVER
2 1/2 TON
CAPACITY
EXCLUDED
SP-12

CUSHING ST
D3-1e

STATION ST
D3-1f

CENTRAL ST
D3-1c

STOP
R1-1

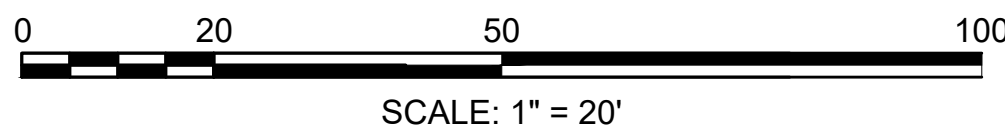
CHILDREN
SP-13

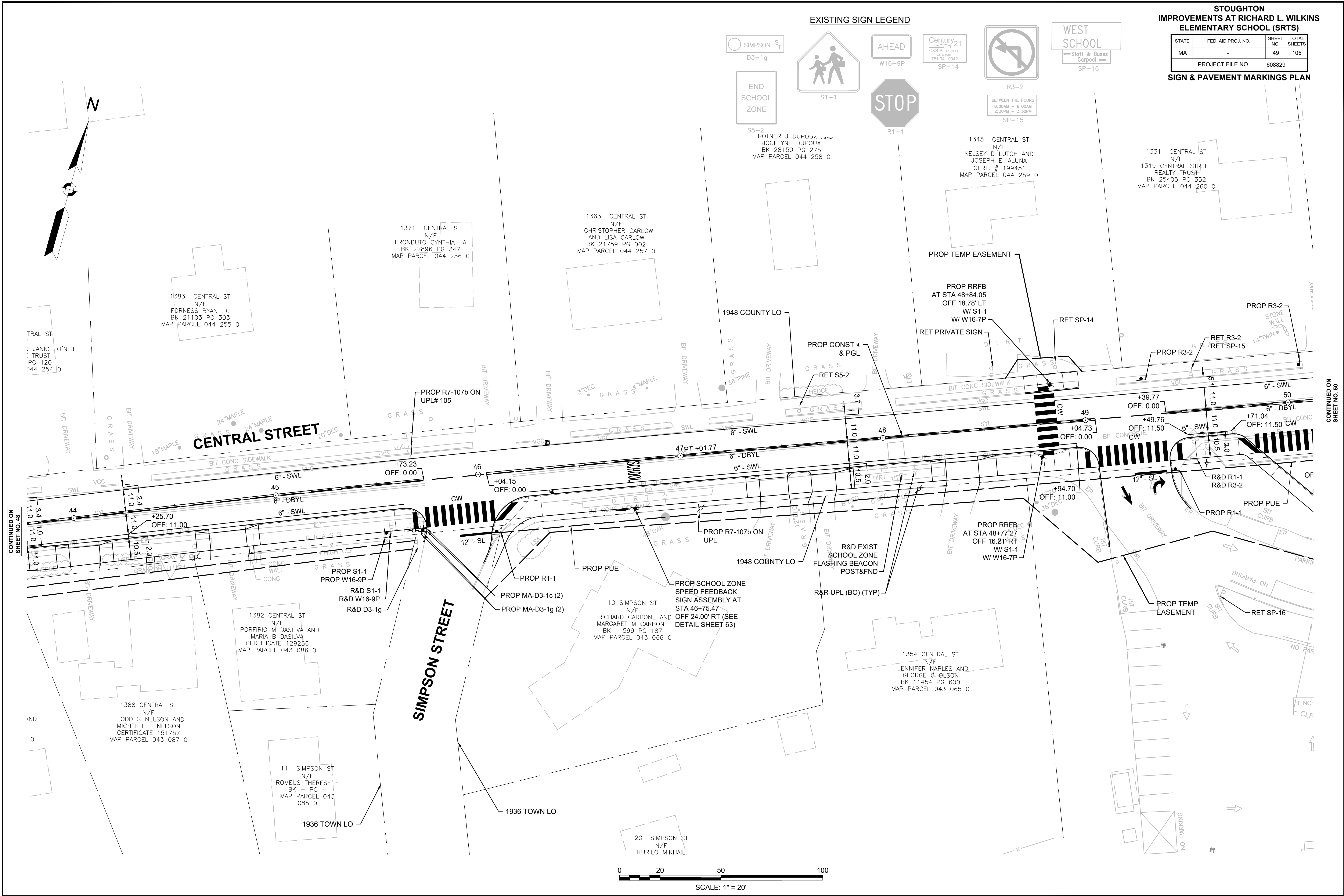
STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	48	105

PROJECT FILE NO. 608829

SIGN & PAVEMENT MARKINGS PLAN





STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	49	105

PROJECT FILE NO. 608829

SIGN & PAVEMENT MARKINGS PLAN

EXISTING SIGN LEGEND

SIMPSON ST
D3-1g

END SCHOOL ZONE

SS-2
TROTNER J DUPOUX AND
JOCELYNE DUPOUX
BK 28150 PG 275
MAP PARCEL 044 258 0

AHEAD
W16-9P

Century 21
CAS Properties
781.341.9042
SP-14

R3-2
BETWEEN THE HOURS
8:00AM - 8:00AM
2:30PM - 3:30PM
SP-15

WEST SCHOOL
Staff & Buses
Carpool
SP-16

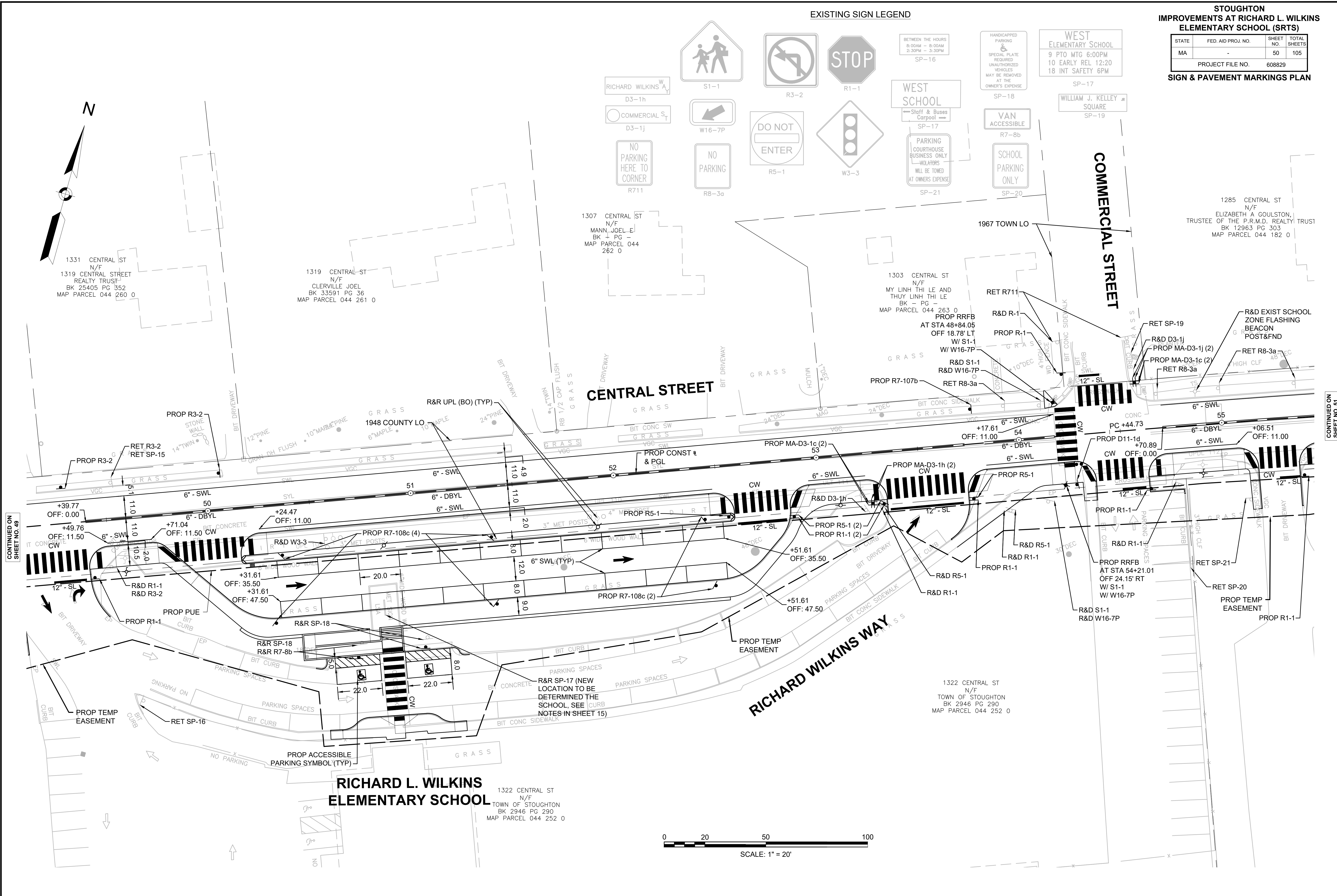
R1-1
STOP

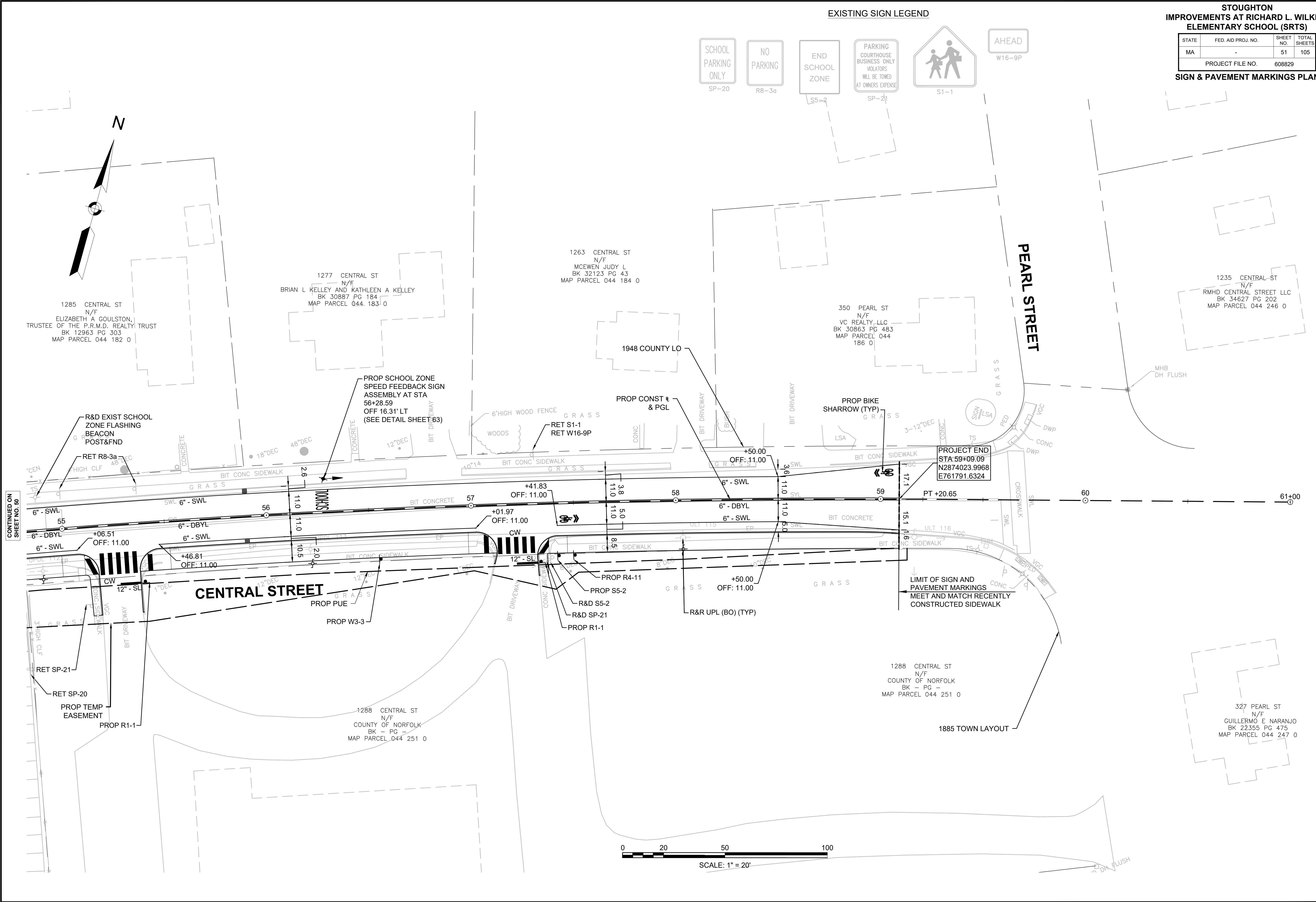
CONTINUED ON
SHEET NO. 50

**STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)**

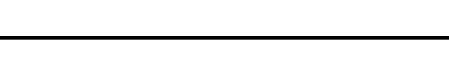
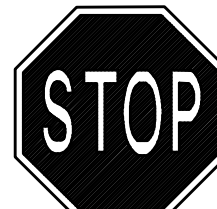
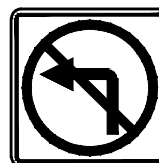
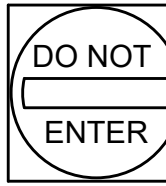
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	50	105
PROJECT FILE NO.		608829	

SIGN & PAVEMENT MARKINGS PLAN





PROPOSED SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND	BORDER			
MA-D3-1a ③	44"	12"		6D/4D	3" 6D/4D 3"	①	2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
MA-D3-1b ③	44"	12"		6D/4D	3" 6D/4D 3"		2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
MA-D3-1c ③	50"	12"		6D/4D	3" 6D/4D 3"		16	GREEN	WHITE	WHITE	P-5 8 REQ'D	INCLUDED UNDER ITEM 874.	
MA-D3-1d ③	46"	12"		6D/4D	3" 6D/4D 3"		2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
MA-D3-1e ③	52"	12"		6D/4D	3" 6D/4D 3"		2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
MA-D3-1f ③	50"	12"		6D/4D	3" 6D/4D 3"		2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
MA-D3-1g ③	54"	12"		6D/4D	3" 6D/4D 3"		2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
MA-D3-1h ③	68"	12"		6D/4D	3" 6D/4D 3"		2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
MA-D3-1j ③	62"	12"		6D/4D	3" 6D/4D 3"		2	GREEN	WHITE	WHITE	2 MOUTH W/ MA-D3-1c	INCLUDED UNDER ITEM 874.	
R1-1	30"	30"		①	①		13	RED	WHITE	WHITE	P-5 13 REQ'D	6.25	81.25
R3-2	24"	24"					2	WHITE	BLACK	BLACK	P-5 2 REQ'D	4.00	8.00
R4-1	24"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	5.00	5.00
R4-11	30"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	6.25	6.25
R5-1	30"	30"					4	WHITE	RED	WHITE	P-5 1 REQ'D 3 MOUNT W/ R1-1	6.25	25.00
R8-8	24"	30"					2	WHITE	BLACK	BLACK	P-5 1 REQ'D 1 MOUNT ON UPL	5.00	10.00
R8-10a	24"	30"					2	WHITE	BLACK	BLACK	P-5 2 REQ'D	5.00	10.00
R10-6	24"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	5.00	5.00
R10-13	30"	24"		↓	↓	↓	2	WHITE	BLACK	BLACK	2 MOUNT ON MAST ARM	5.00	10.00

- ① SEE MUTCD 2009 EDITION, THE 2012 SUPPLEMENT TO THE 2004 EDITION OF THE STANDARD HIGHWAY SIGNS AND SECTION M9.30.0 TYPE III OF THE MASSDOT STANDARD SPECIFICATION FOR TEXT DIMENSIONS AND COLOR.
- ② SEE STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, 1990.
- ③ STREET NAME SIGNS THAT ARE MOUNTED ON P-5 POSTS SHALL BE ORDERED TWO SIGNS PER LOCATION AND SHALL BE MOUNTED WITH BOLT-THROUGH METHOD.
- ④ CONTRACTOR TO COORDINATE WITH BROCKTON AREA TRANSIT AUTHORITY (BAT) FOR BUS STOP SIGN STANDARDS.
- ⑤ CONTRACTOR TO COORDINATE WITH TOWN OF STOUGHTON FOR SEAL

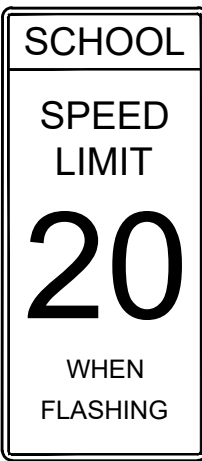
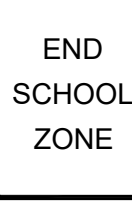
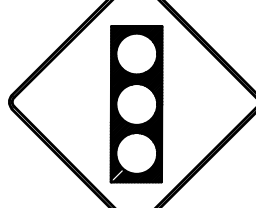
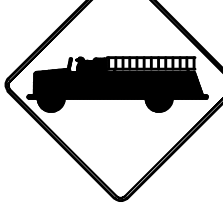
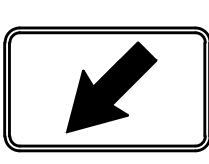
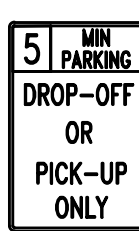


STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	52	105
PROJECT FILE NO.		608829	

TRAFFIC SIGN SUMMARY

STOUGHTON TOWN SEAL
NOT TO SCALE

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND	BORDER			
S1-1	30"	30"		①	①	①	13	FLUORE- SCENT YELLOW GREEN	BLACK	BLACK	P-5 1 REQ'D 6 MOUNT ON RRFB	6.25	43.75
S5-1	24"	48"					2	WHITE "SCHOOL" SECTION SHALL BE FLUORESCENT YELLOW GREEN	BLACK	BLACK	2 MOUNT ON SIGNAL POST	8.00	16.00
S5-2	24"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	6.25	6.25
W3-3	30"	30"					1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	6.25	6.25
W10-1	36"DIA						2	YELLOW	BLACK	BLACK	P-5 2 REQ'D	7.00	14.00
W11-8	30"	30"					2	YELLOW	BLACK	BLACK	P-5 2 REQ'D	6.25	12.5
W11-10	30"	30"					1	YELLOW	BLACK	BLACK	P-5 1 REQ'D	6.25	6.25
W11-12p	36"	30"					2	YELLOW	BLACK	BLACK	2 MOUNT W/ W11-8	7.50	15.00
W16-7P	24"	12"					12	FLUORESCENT YELLOW GREEN	BLACK	BLACK	6 MOUNT W/ S1-1	2.00	12.00
W16-9P	24"	12"					1	FLUORESCENT YELLOW GREEN	BLACK	BLACK	1 MOUNT W/ S1-1	2.00	2.00
R7-108c	12"	18"					6	GREEN/ WHITE	GREEN	BLACK	P-5 6 REQ'D	1.50	9.00
R7-107b ④	12"	30"					7	WHITE	BLACK	BLACK	P-5 3 REQ'D 4 MOUNT ON UTILITY POLE	2.50	17.50
D11-1d	12"	18"		↓	↓	↓	1	GREEN	WHITE	WHITE	P-5 1 REQ'D	1.50	1.50

TRAFFIC MANAGEMENT NOTES:

1. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION WITH MASSACHUSETTS AMMENDMENTS, THE STANDARD SPECIFICATIONS, THE PROJECT SPECIAL PROVISIONS, AND THE FOLLOWING NOTES.
2. THE TRAFFIC MANAGEMENT PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE MUTCD AND AS APPROVED OR DIRECTED BY THE ENGINEER.
3. NO CONSTRUCTION VEHICLES SHALL BE PARKED WITHIN THE TRAVEL WAY WITHOUT PROPER PROTECTION AND APPROVAL OF THE ENGINEER.
4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
5. ALL WARNING SIGNS SHALL BE BLACK LEGEND ON A REFLECTIVE ORANGE BACKGROUND AND IN ACCORDANCE WITH THE MUTCD. ALL REGULATORY SIGNS SHALL BE BLACK LEGEND ON A WHITE REFLECTIVE BACKGROUND. ALL CONSTRUCTION SIGNS SHALL BE ATTACHED TO THEIR OWN INDEPENDENT SUPPORTS UNLESS SHOWN OTHERWISE.
6. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID PLACING TEMPORARY TRAFFIC CONTROL DEVICES ON PRIVATE PROPERTY. IF SUCH PLACEMENT ON PRIVATE PROPERTY IS UNAVOIDABLE, IT SHALL BE DONE WITH THE EXPLICIT APPROVAL OF THE PROPERTY OWNER AND THE ENGINEER.
7. ABUTTER ACCESS SHALL NOT BE CLOSED EXCEPT FOR SHORT PERIODS AND ONLY WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
8. THE CONTRACTOR SHALL PROVIDE IMMEDIATE ACCESS TO EMERGENCY VEHICLES AT ALL TIMES.
9. GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF DRUMS.
10. GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A TRANSITION OF GRAVEL OR OTHER MATERIAL TO BE COMPACTED AT A 4:1 SLOPE, AND DELINEATED BY DRUMS.
11. CONSTRUCTION SIGNS NOT APPLICABLE TO VARIOUS STAGES OF CONSTRUCTION SHALL BE REMOVED OR COVERED.
12. USE MA-W20-7b SIGNS ONLY WHEN POLICE OFFICER IS DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH OPERATION.
13. MAINTAIN PEDESTRIAN ACCESS THROUGH THE WORK AREA AT ALL TIMES. THE POLICE DETAIL SHALL PROVIDE CONTROL TO CROSS PEDESTRIANS ON ROADWAY TO SIDEWALK. PROVIDE TEMPORARY CROSSWALKS AND RAMPS AS NEEDED AND AS DIRECTED BY THE ENGINEER.
14. ALL CONSTRUCTION SIGNING AND OTHER TRAFFIC MAINTENANCE DEVICES SHALL CONFORM WITH THE 2009 MUTCD AS AMENDED, NCHRP 350, AND MASSDOT STANDARDS.
15. ADVANCE WARNING SIGNS NO LONGER APPLICABLE, WHICH MIGHT CREATE CONFUSION IN THE MINDS OF VEHICLE OPERATORS, SHALL EITHER BE COVERED OR REMOVED AS SOON AS POSSIBLE. NO SIGN SHALL BE VISIBLE TO TRAFFIC THAT MAY CONFLICT WITH ACTUAL ROADWAY CONDITIONS.
16. ALL DISTANCES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.HOWEVER, MINIMUM DISTANCES, WHERE INDICATED, SHOULD BE MAINTAINED.
17. THE CONTRACTOR SHALL USE TEMPORARY PATCHING OR BEVELED STEEL PLATES TO COVER PIPE TRENCHES AND OTHER EXCAVATED HOLES NOT COMPLETED BY THE END OF EACH WORK DAY.
18. ALL DRUMS WITH FLASHERS, SIGNS AND SIGN SUPPORTS MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 AND MASH RECOMMENDED PROCEDURES FOR THE SAFETY EVALUATION OF HIGHWAY FEATURES.
19. MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH WILL BE MEASURED FROM THE EDGE OF DRUMS OR CONES.
20. ORANGE CONSTRUCTION FLAGS MAY BE USED ON ADVANCE WARNING SIGNS AS DIRECTED BY THE ENGINEER. FLAGS SHALL BE A MINIMUM OF 16" X 16".
21. MAINTAIN EXISTING PAVEMENT MARKINGS WHERE APPLICABLE. WHEN LANES SHIFT, IF NECESSARY, EXISTING MARKINGS SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKING SHALL BE PROVIDED.
22. AT THE END OF EACH WORK DAY, NO TRAFFIC CONTROL DEVICES SHALL REMAIN IN THE ROADWAY AND ALL LANES SHALL BE OPEN FOR TRAFFIC FLOW.
23. THE CONTRACTOR MAY PROPOSE TO USE A DIFFERENT SEQUENCE OF WORK AREAS THAN WHAT IS BEING PROPOSED IN THESE DOCUMENTS. THE CONTRACTOR SHALL SUBMIT PHASING AND TRAFFIC MANAGEMENT PLANS FOR APPROVAL BY THE ENGINEER.
24. MAXIMUM SPACING OF CHANNELIZING DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. (20' SPACING TYPICAL ON TAPER, 35' SPACING TYPICAL ON TANGENTS.)
25. CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS OR CONES.
26. THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL HAVE TYPE A LIGHTS.
27. POLICE DETAIL SHALL BE USED WHILE SETTING UP THE TEMPORARY TRAFFIC CONTROL DEVICES ON THE ROADWAY.
28. EACH WORK ZONE SHALL HAVE MA-R2-10a, MA-R2-10e, AND W-20 SERIES SIGNS WHERE APPLICABLE.
29. POLICE DETAILS SHALL BE EMPLOYED AND SHALL BE SUBSTITUTED WITH CERTIFIED ROADWAY FLAGGERS AS DIRECTED BY THE ENGINEER AND PER SECTION 850 "TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS" IN THE MASSDOT SUPPLEMENTAL SPECIFICATIONS DATED JUNE 12, 2012.
30. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
31. ALL DRIVEWAYS AND STREETS SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR SHORT PERIODS AS APPROVED BY THE ENGINEER.
32. SEE SHEETS 39 AND 42 FOR ADDITIONAL TYPICAL TEMPORARY TRAFFIC CONTROL PLAN DETAILS.

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350 (100)	350 (100)	350 (100)
MOST OTHER ROADWAYS*	500 (150)	500 (150)	500 (150)
FREEWAYS AND EXPRESSWAYS*	1,000 (300)	1,500 (450)	2,640 (800)

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

** DISTANCES ARE SHOWN IN FEET (METERS). THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN.(15 m) 100 FT(30 m) MAX.
DOWNSTREAM TAPER	50 FT MIN.(15 m) 100 FT MAX.(30 m) PER LANE

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH (KM/H)

STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

THESE VALUES MAY BE USED TO DETERMINE THE LENGTH OF LONGITUDINAL BUFFER SPACES.

THE DISTANCES IN THE ABOVE CHART REPRESENT THE MINIMAL VALUES FOR BUFFER SPACING.

LEGEND:

● REFLECTORIZED PLASTIC DRUM OR 36" CONE

P/F POLICE/FLAGGER DETAIL

▨ TYPE III BARRICADE

□ CHANGEABLE MESSAGE SIGN

➡➡➡ ARROW BOARD

▨ WORK ZONE

➡ DIRECTION OF TRAFFIC

⊞ IMPACT ATTENUATOR

▭ MEDIAN BARRIER

⊞ MEDIAN BARRIER WITH WARNING LIGHTS

🚚 WORK VEHICLE

▨ TRUCK MOUNTED ATTENUATOR

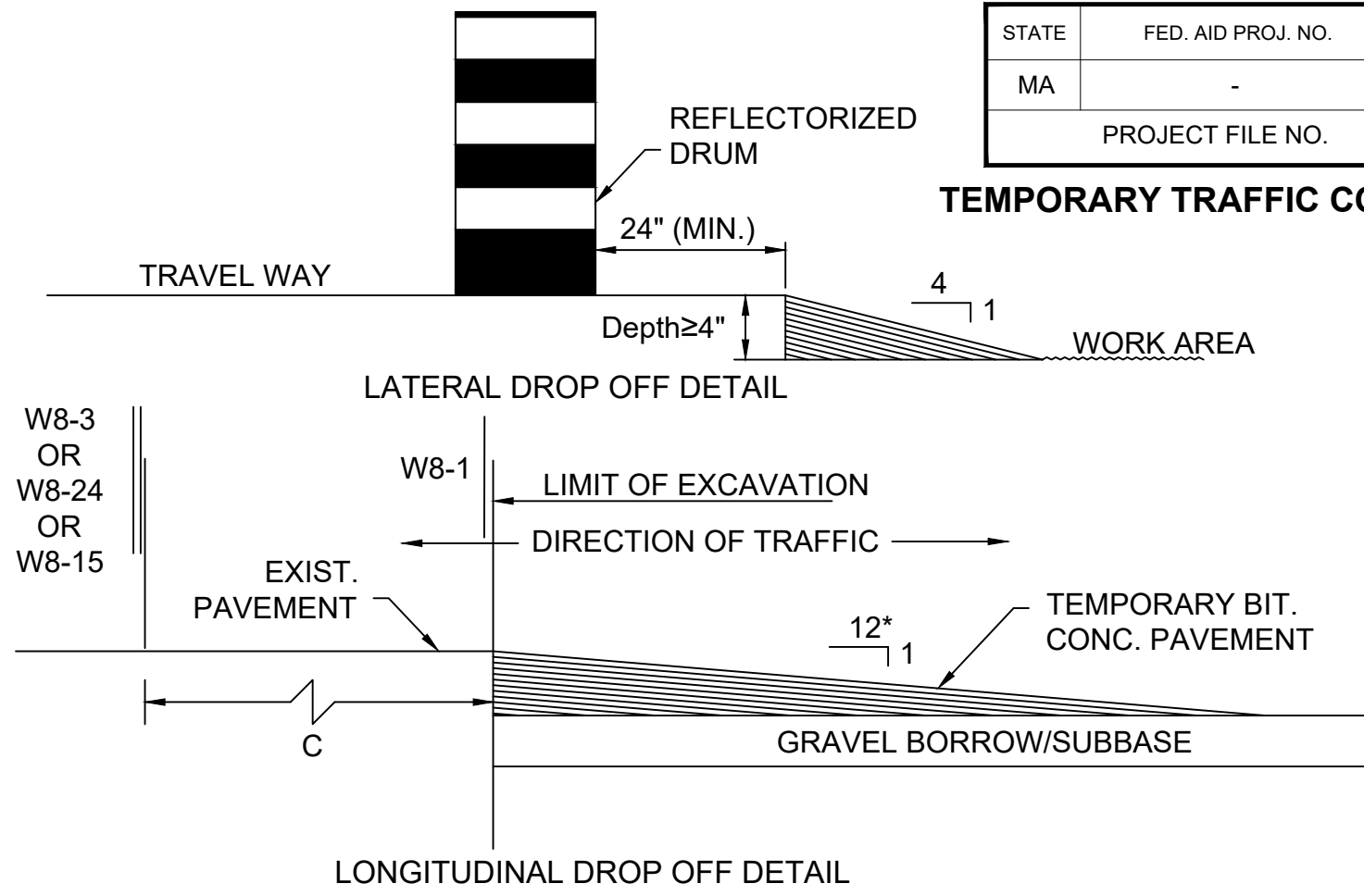
➡➡ TRAFFIC OR PEDESTRIAN SIGNAL

● SIGN

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	53	105
PROJECT FILE NO.		608829	

TEMPORARY TRAFFIC CONTROL PLANS



* - INCREASE SLOPE RATIO FOR HIGHER SPEEDS

NOTES:

1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.

2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.

3. DETECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.

6. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.

8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.

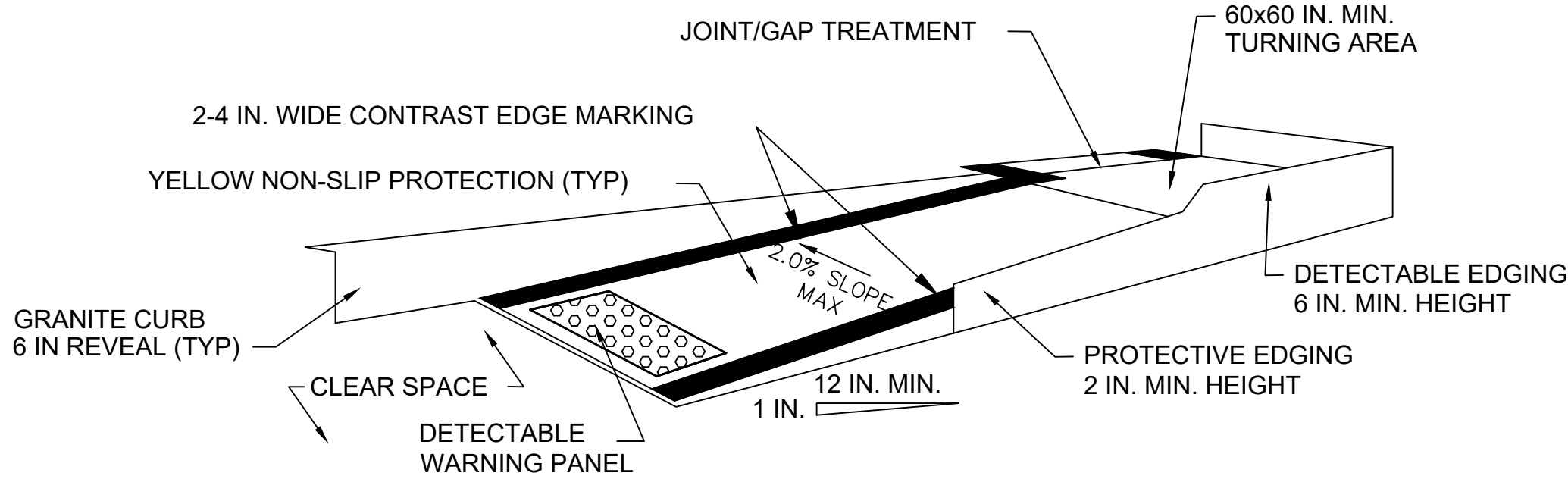
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.

10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

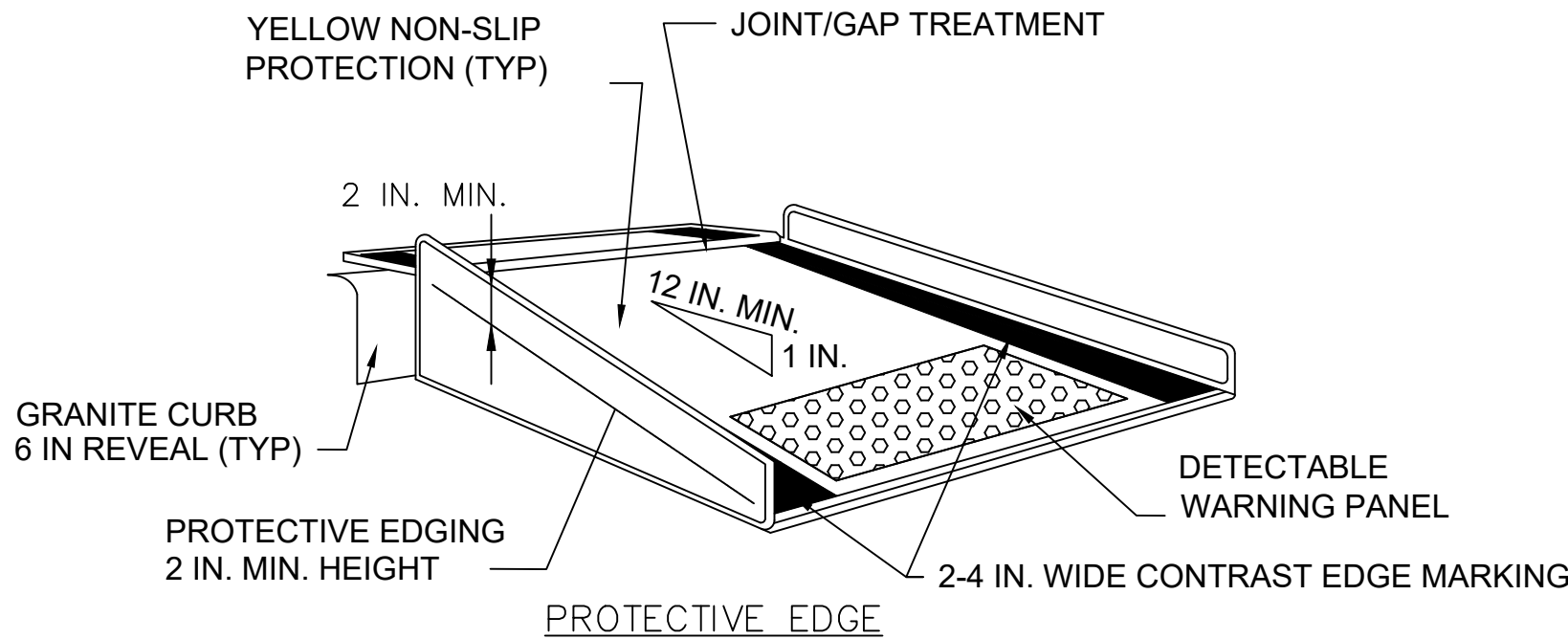
STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	54	105
PROJECT FILE NO.		608829	

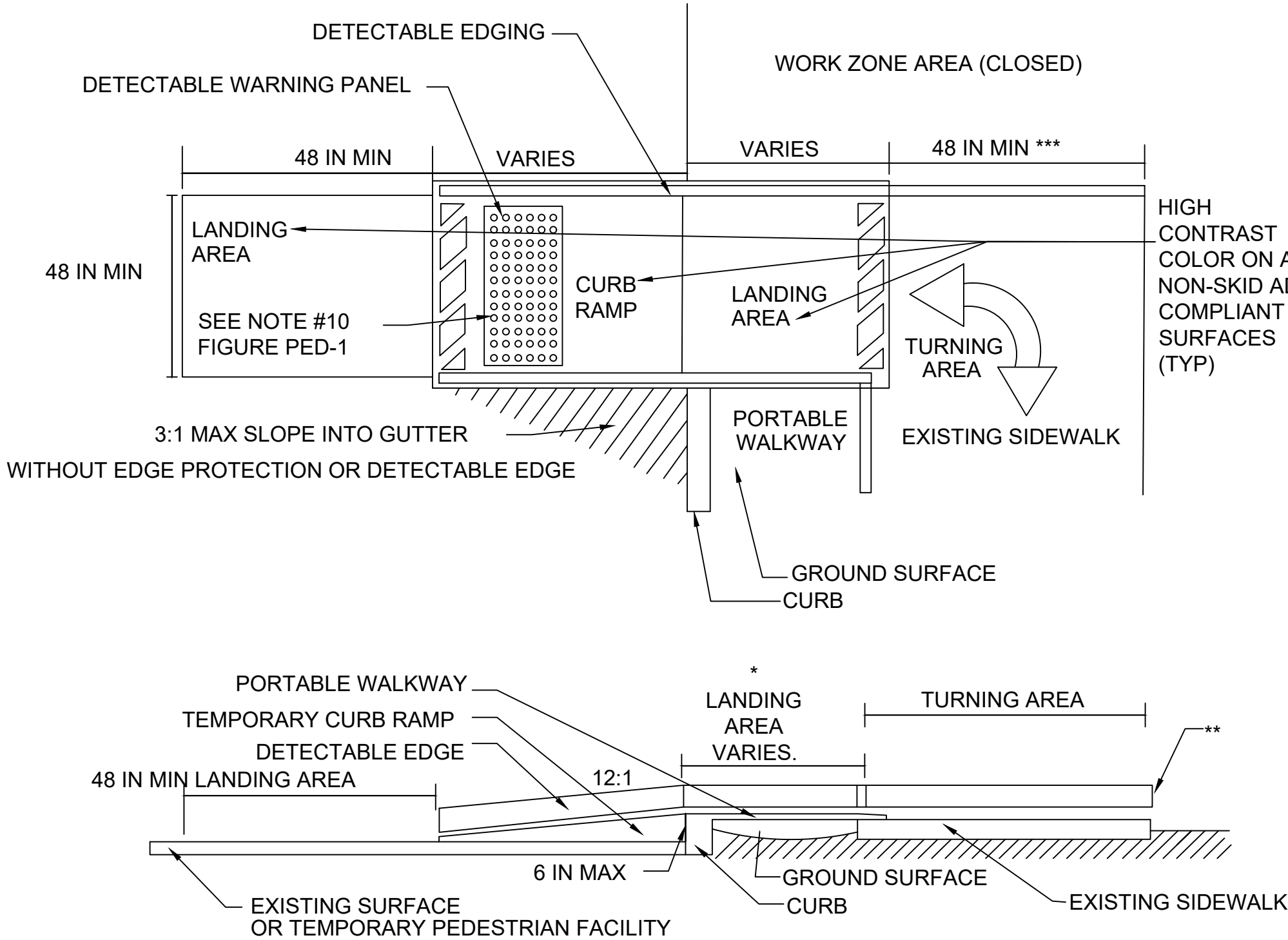
TEMPORARY TRAFFIC CONTROL PLANS



TEMPORARY CURB RAMP-PARALLEL TO CURB



TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

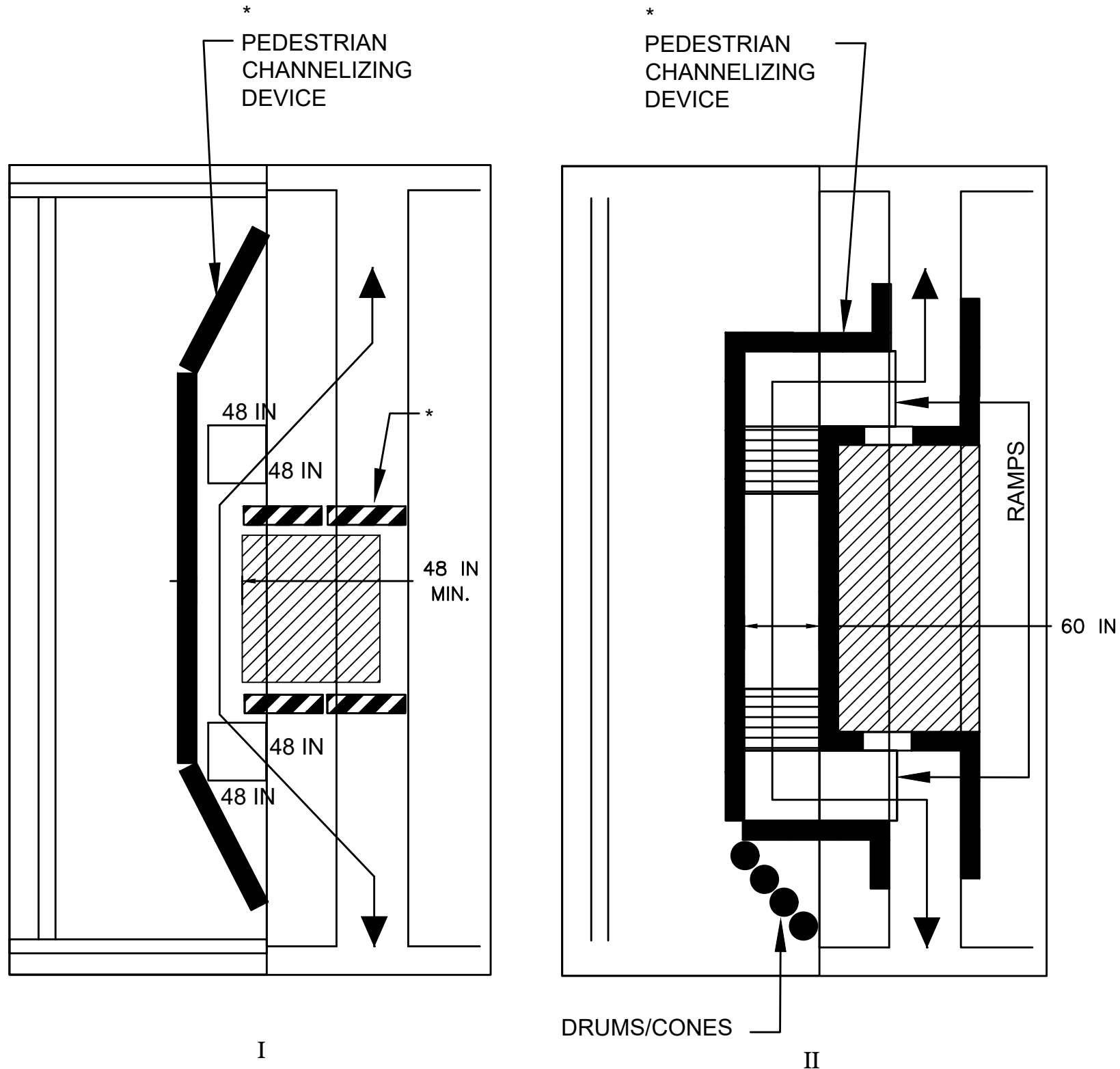


TEMPORARY CURB RAMP

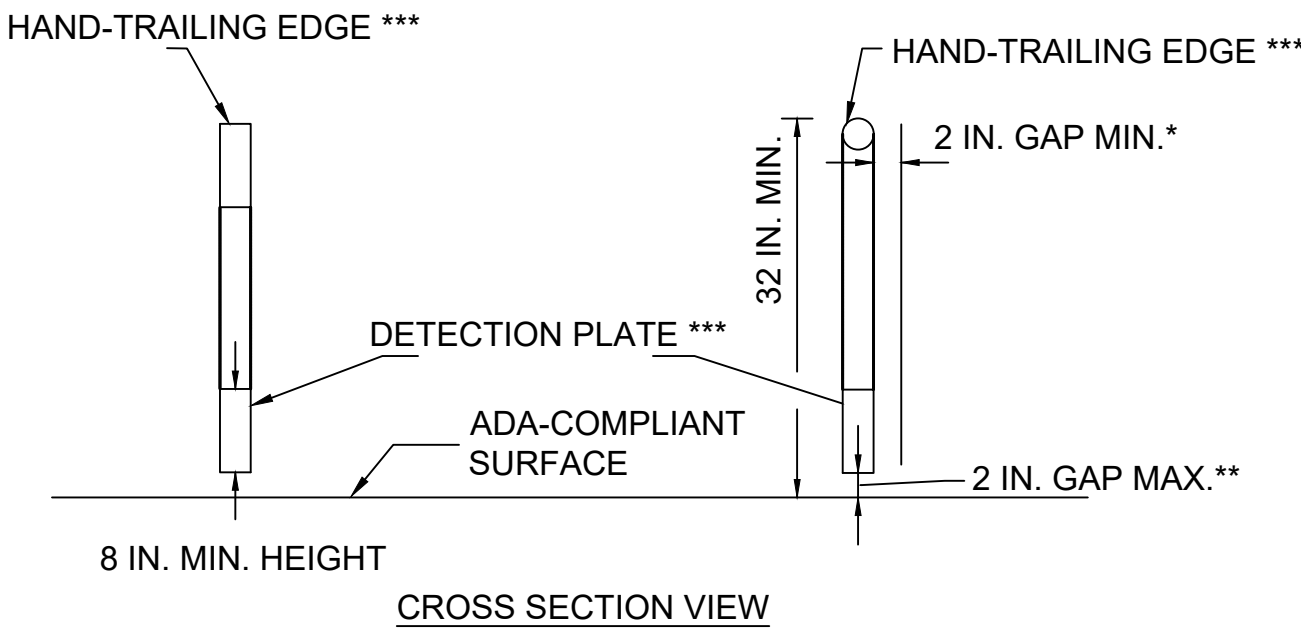
- * -LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.

** -DETECTABLE EDGE REMOVED IF A CONTINUOUS SIDEWALK.

*** -60 IN. IF AN OBSTRUCTION IS AT BACK OF SIDEWALK



TEMPORARY PEDESTRIAN DELINEATION DETAILS



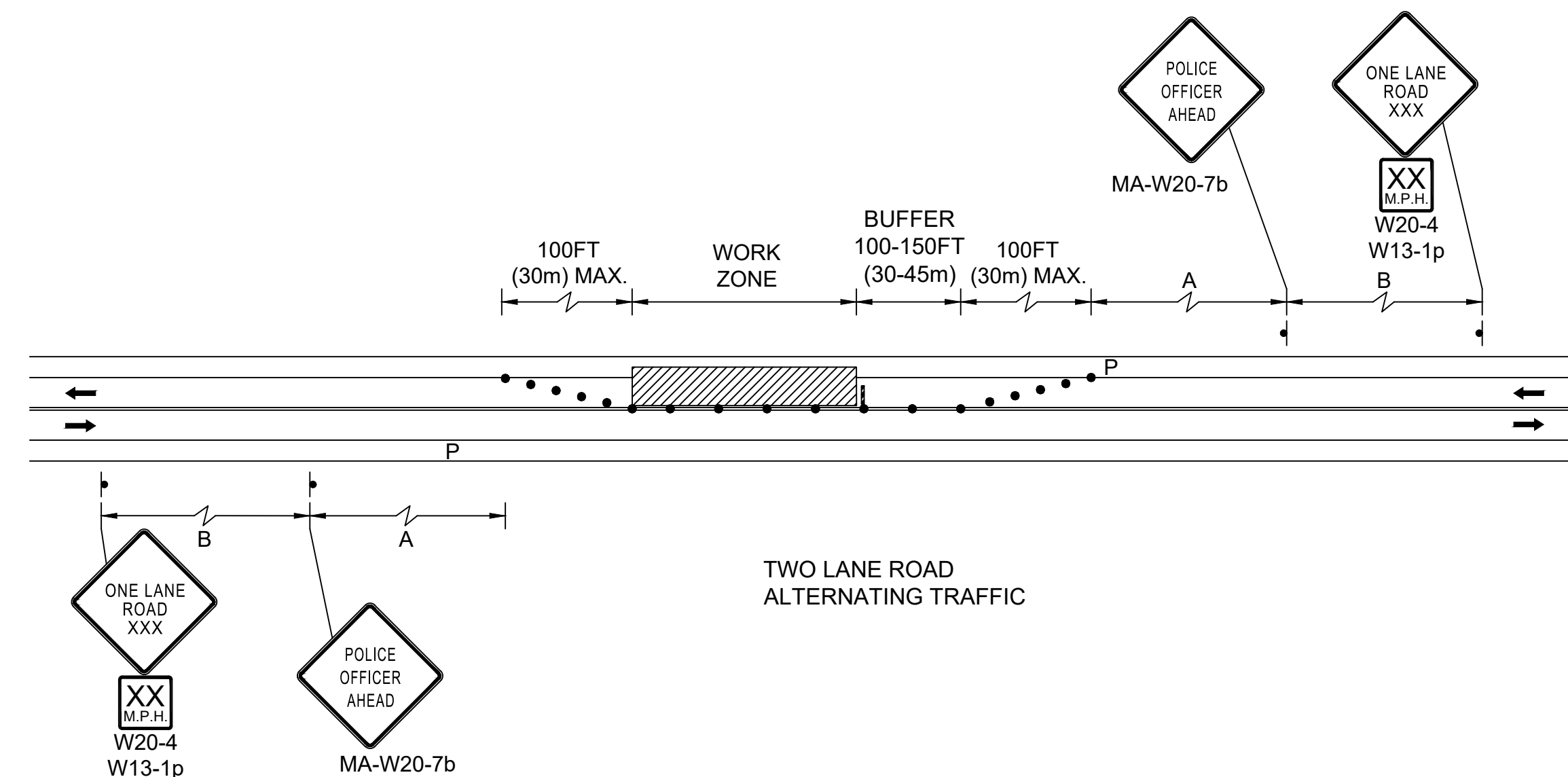
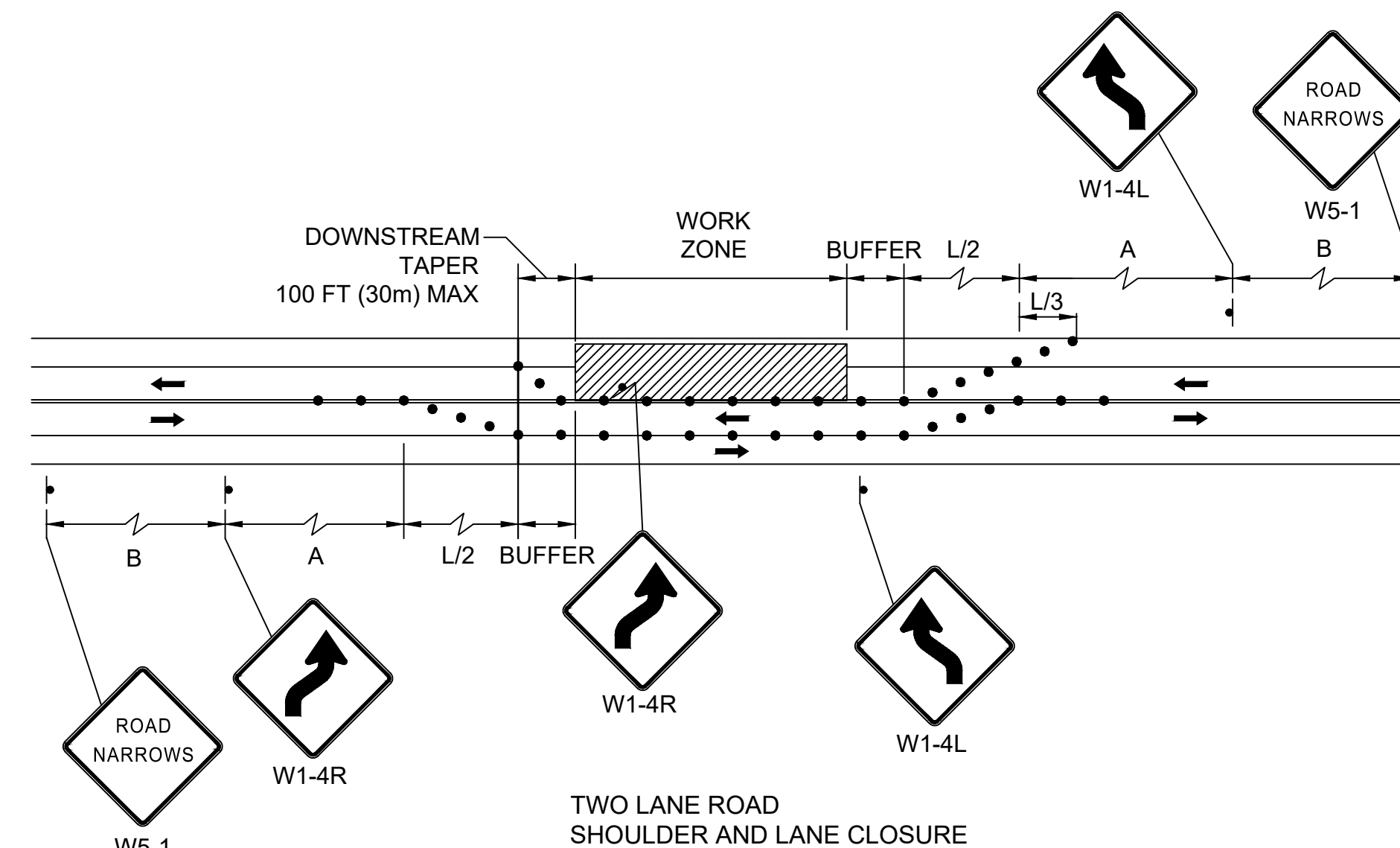
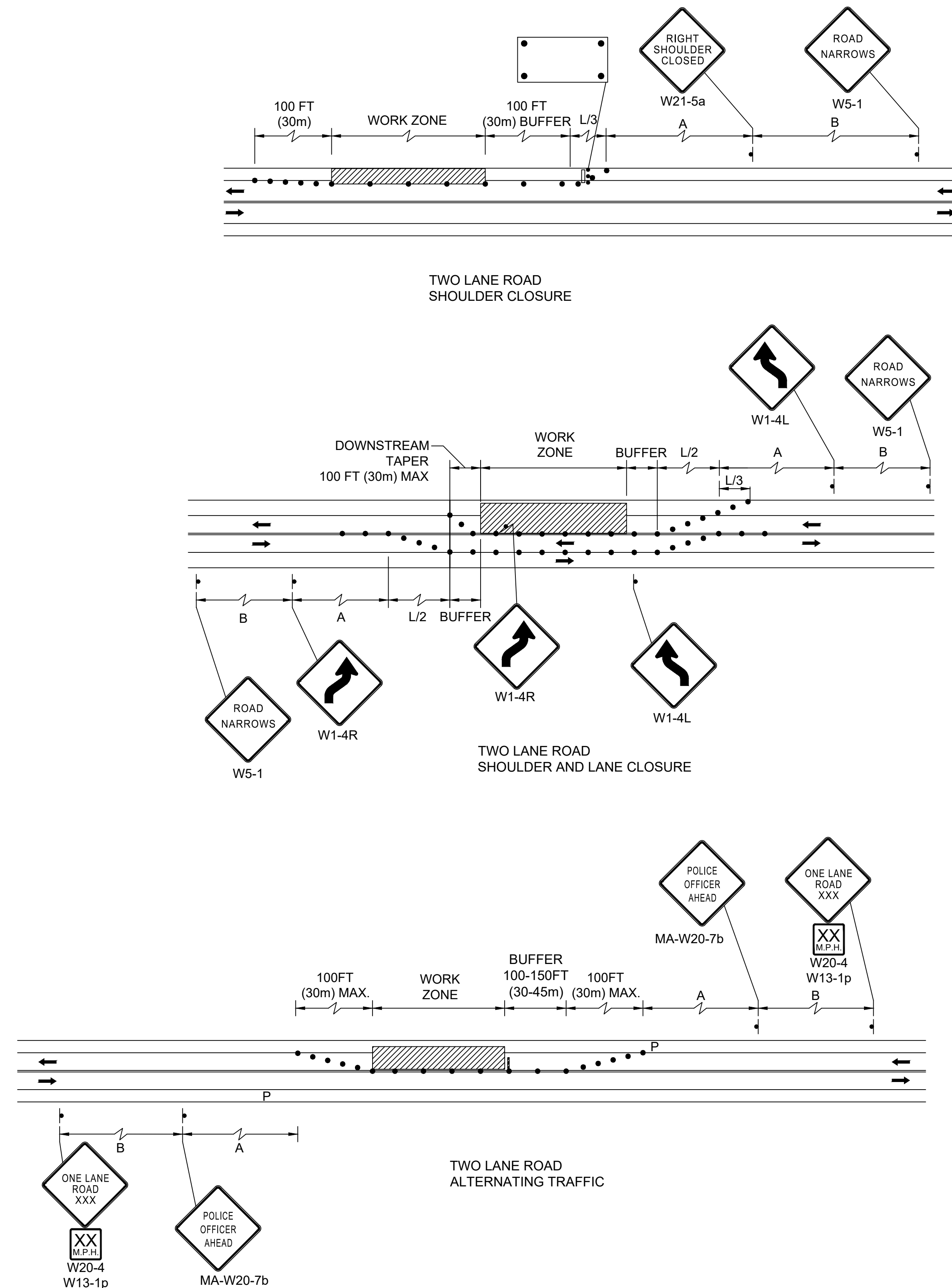
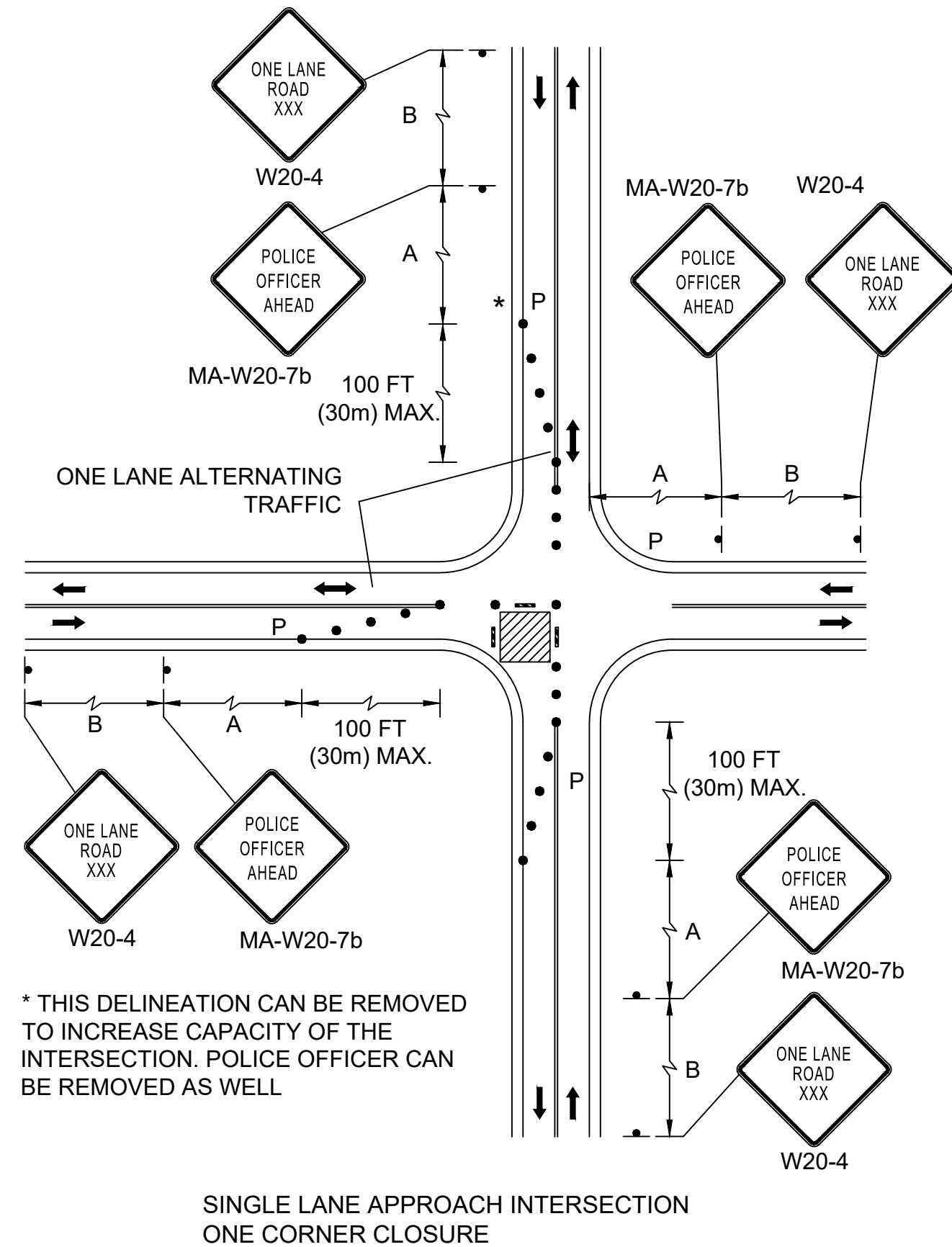
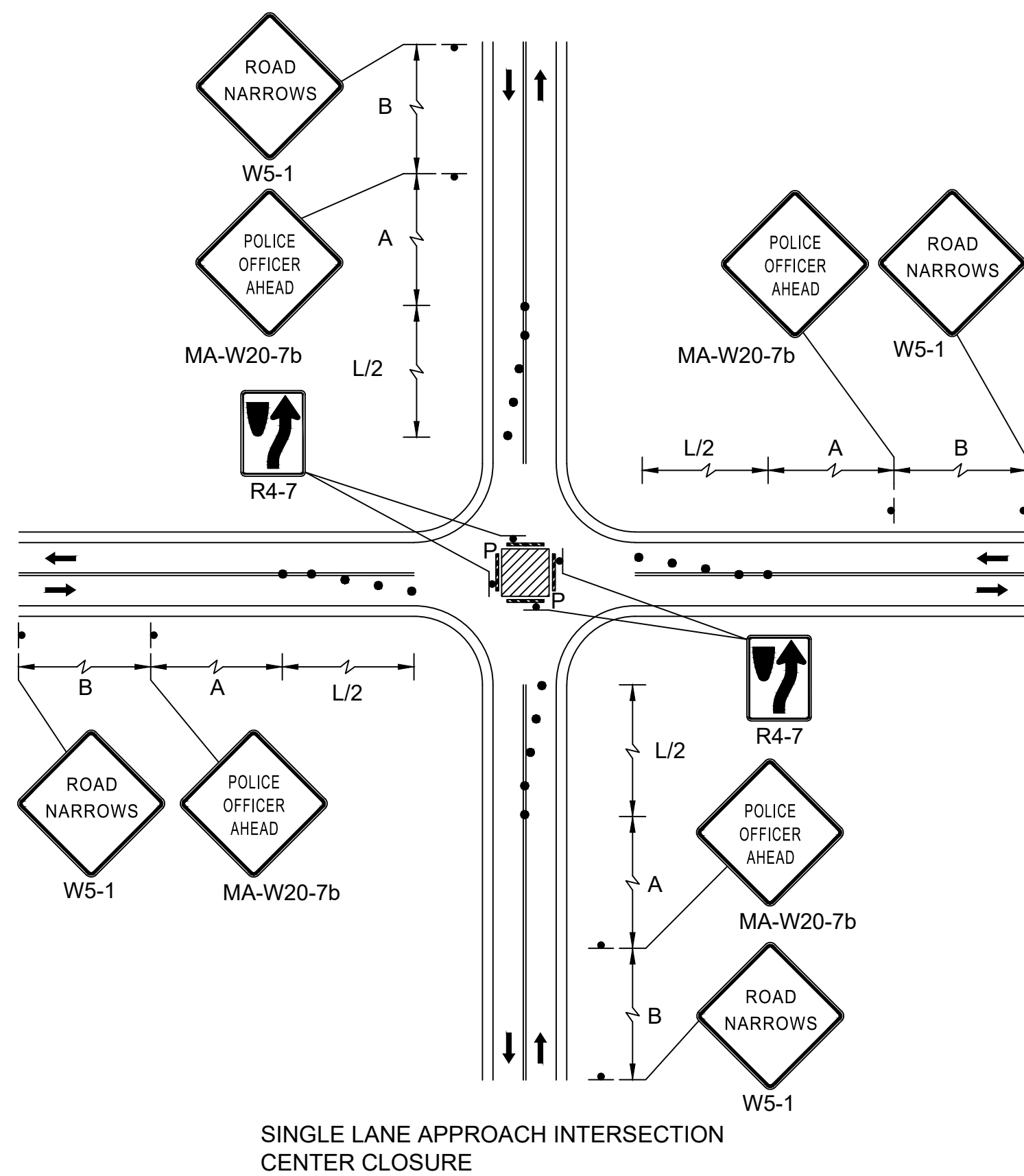
PEDESTRIAN CHANNELIZING DEVICE

NOTES:

- * THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.

** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.

*** THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.

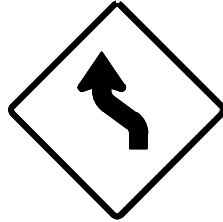
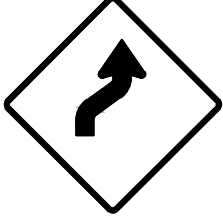
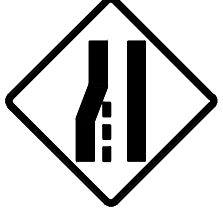
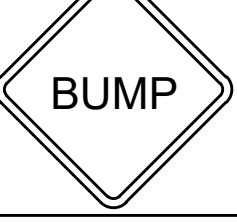
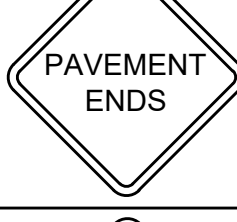
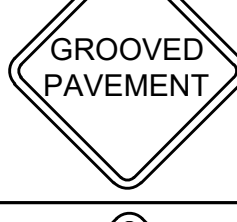
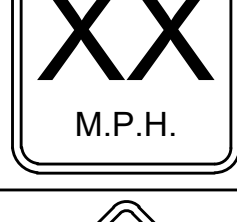


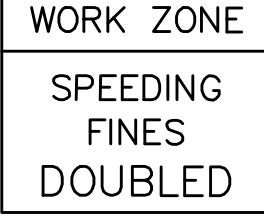
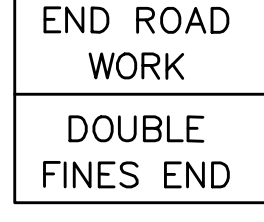
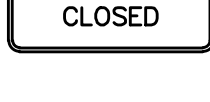
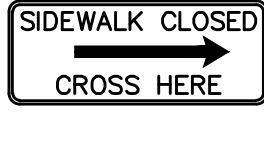
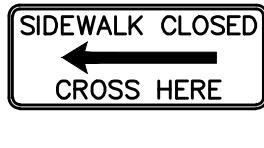
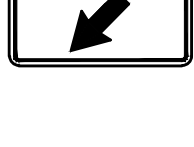
CONSTRUCTION SIGN SUMMARY

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	56	105
PROJECT FILE NO.		608829	

TEMPORARY TRAFFIC CONTROL PLANS

IDENTIFI- CATION NUMBER	SIZE OF SIGN		SIGN DIAGRAM	COLOR			# REQ'D *	UNIT AREA S.F.	AREA IN SQUARE FEET
	WIDTH	HEIGHT		BACK- GROUND	LEGEND	BORDER			
W1-4L	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W1-4R	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W4-2L	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W4-7L	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	1	9.00	9.00
W5-1	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
W8-1	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W8-3	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W8-15	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W8-24	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
W13-1p	24"	24"		FLUORESCENT ORANGE	BLACK	BLACK	2	4.00	8.00
W20-1	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	7	9.00	63.00
W20-4	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
W20-5L	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00

IDENTIFI- CATION NUMBER	SIZE OF SIGN		SIGN DIAGRAM	COLOR			# REQ'D *	UNIT AREA S.F.	AREA IN SQUARE FEET
	WIDTH	HEIGHT		BACK- GROUND	LEGEND	BORDER			
MA-W20-7b	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
W21-5a	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	2	9.00	18.00
MA-R2-10a	48"	36"		FLUORESCENT ORANGE WHITE	BLACK BLACK	BLACK BLACK	7	12.00	84.00
MA-R2-10e	36"	48"		FLUORESCENT ORANGE WHITE	BLACK BLACK	BLACK BLACK	7	12.00	84.00
R3-7L	30"	30"		WHITE	BLACK	BLACK	2	6.25	12.50
R3-7R	30"	30"		WHITE	BLACK	BLACK	2	6.25	12.50
R4-7	24"	30"		WHITE	BLACK	BLACK	2	5.00	10.00
R9-9	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	4	2.00	8.00
R9-11aR	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-11aL	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
W11-2	36"	36"		FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
W16-7p	24"	12"		FLUORESCENT ORANGE	BLACK	BLACK	4	2.00	8.00

* NO. OF SIGNS ARE ESTIMATED FOR BIDDING PURPOSES ONLY

KEY:

LIMIT OF WORK

SIGN

XXXX

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

WORK ZONE

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	57	105
PROJECT FILE NO.		608829	

TEMPORARY TRAFFIC CONTROL PLANS

ADVANCE SIGN PLAN

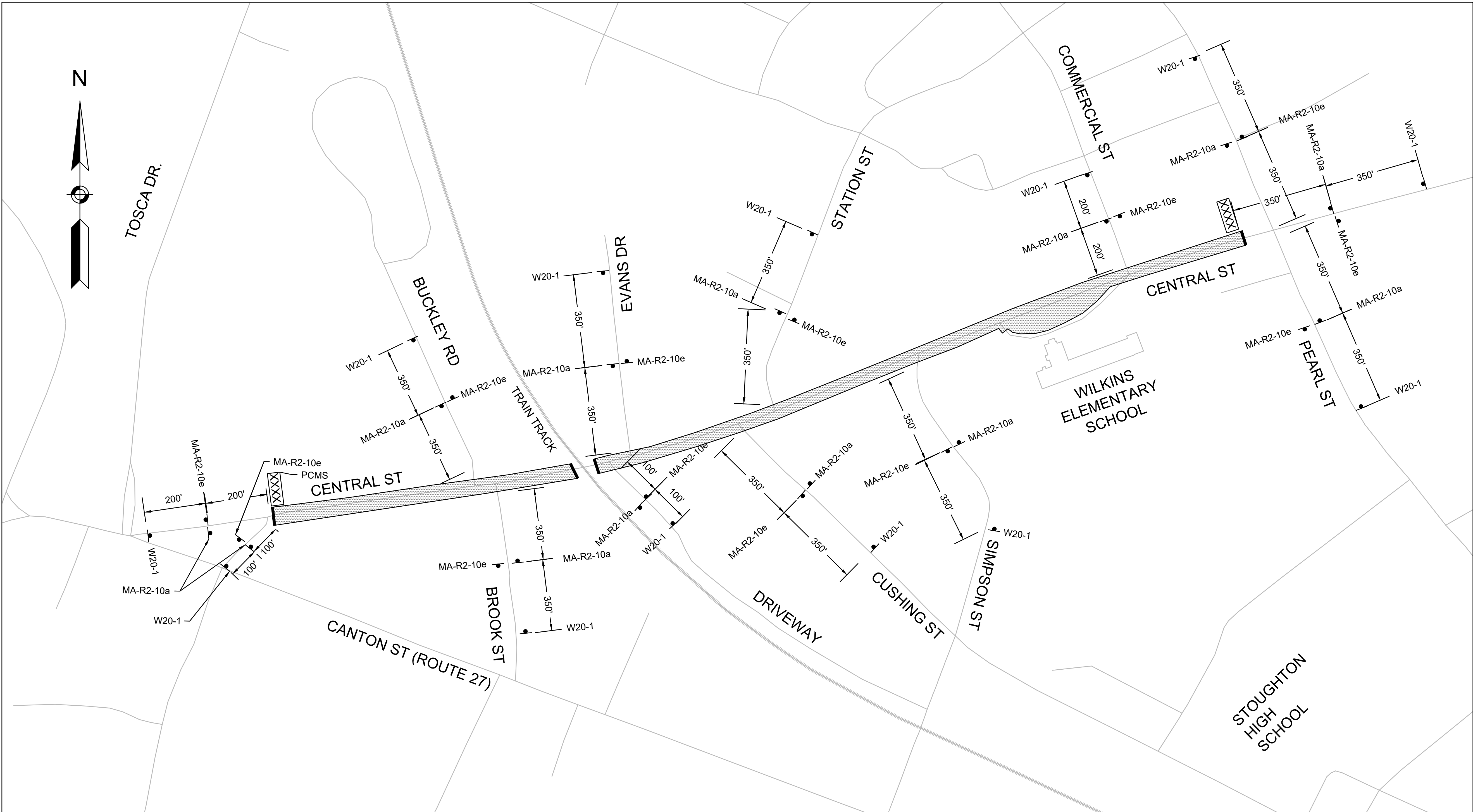
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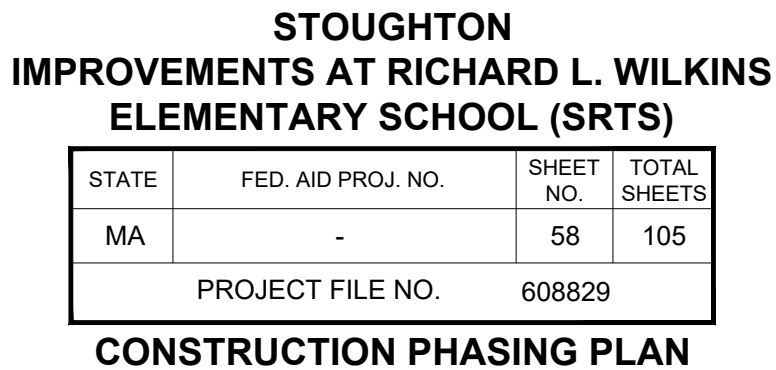
- NOTES:
1.

PCMS SHALL BE INSTALLED AT LEAST 2 WEEKS PRIOR TO THE START OF WORK. WITH THE WORD MESSAGE "CONSTRUCTION TO BEGIN MM-DD THROUGH MM-DD SEEK ALT ROUTE"
2.

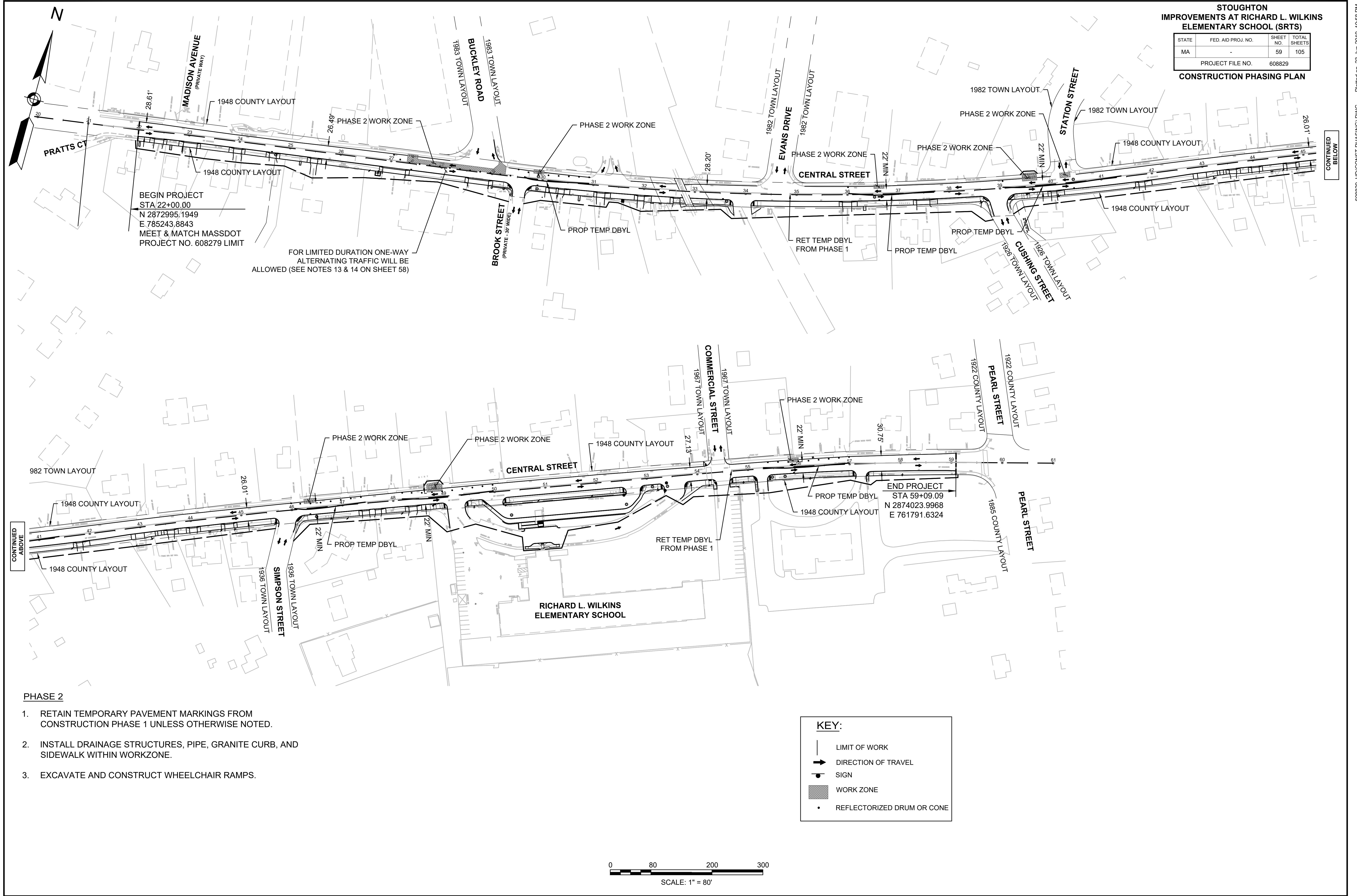
THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF THE PCMS WITH THE RESIDENT ENGINEER AND THE TOWN OF STOUGHTON.
3.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO CONTINUALLY UPDATE THE PCMS BASED UPON ON-GOING WORK. ABBREVIATIONS SHALL BE IN ACCORDANCE WITH THE MUTCD.

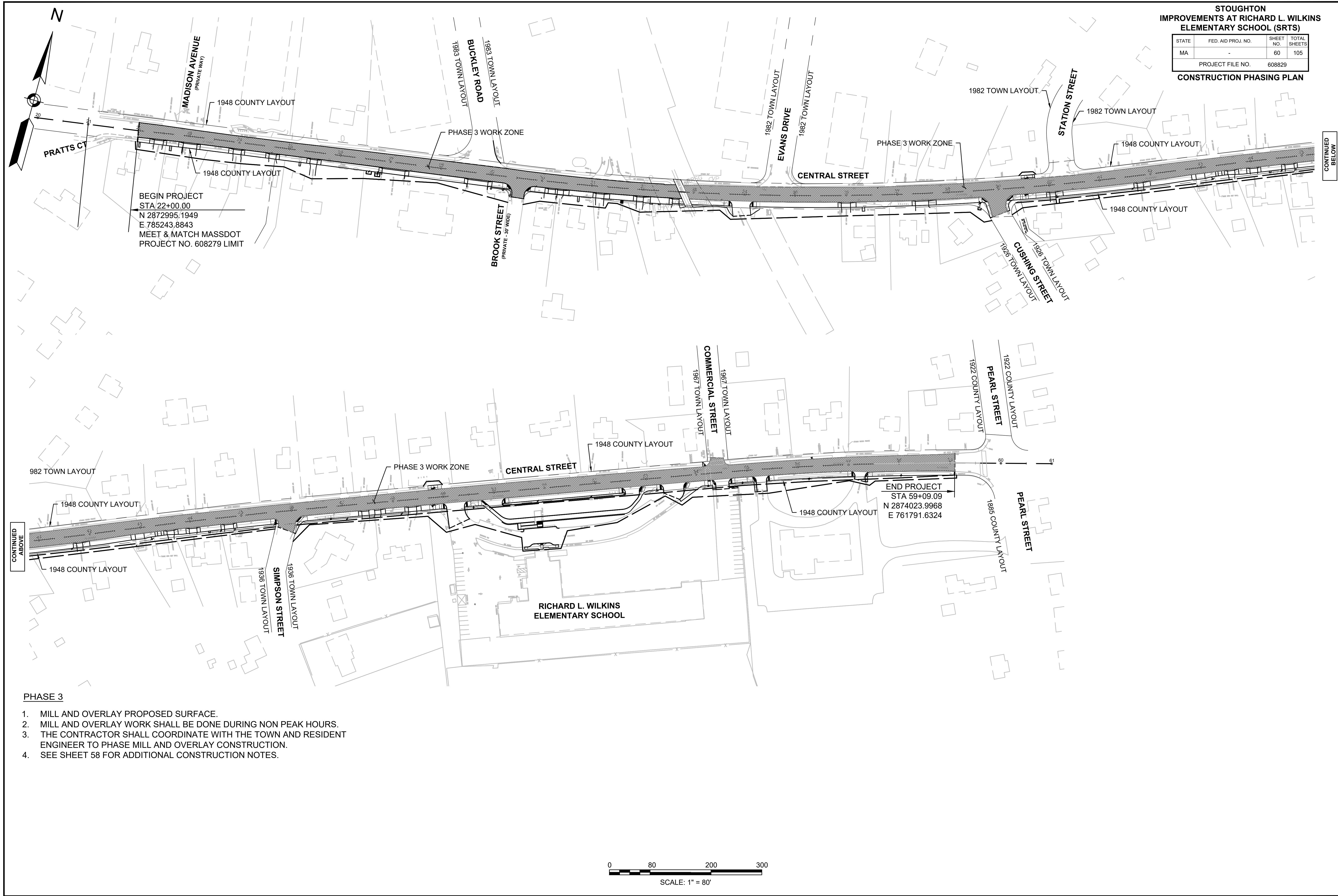




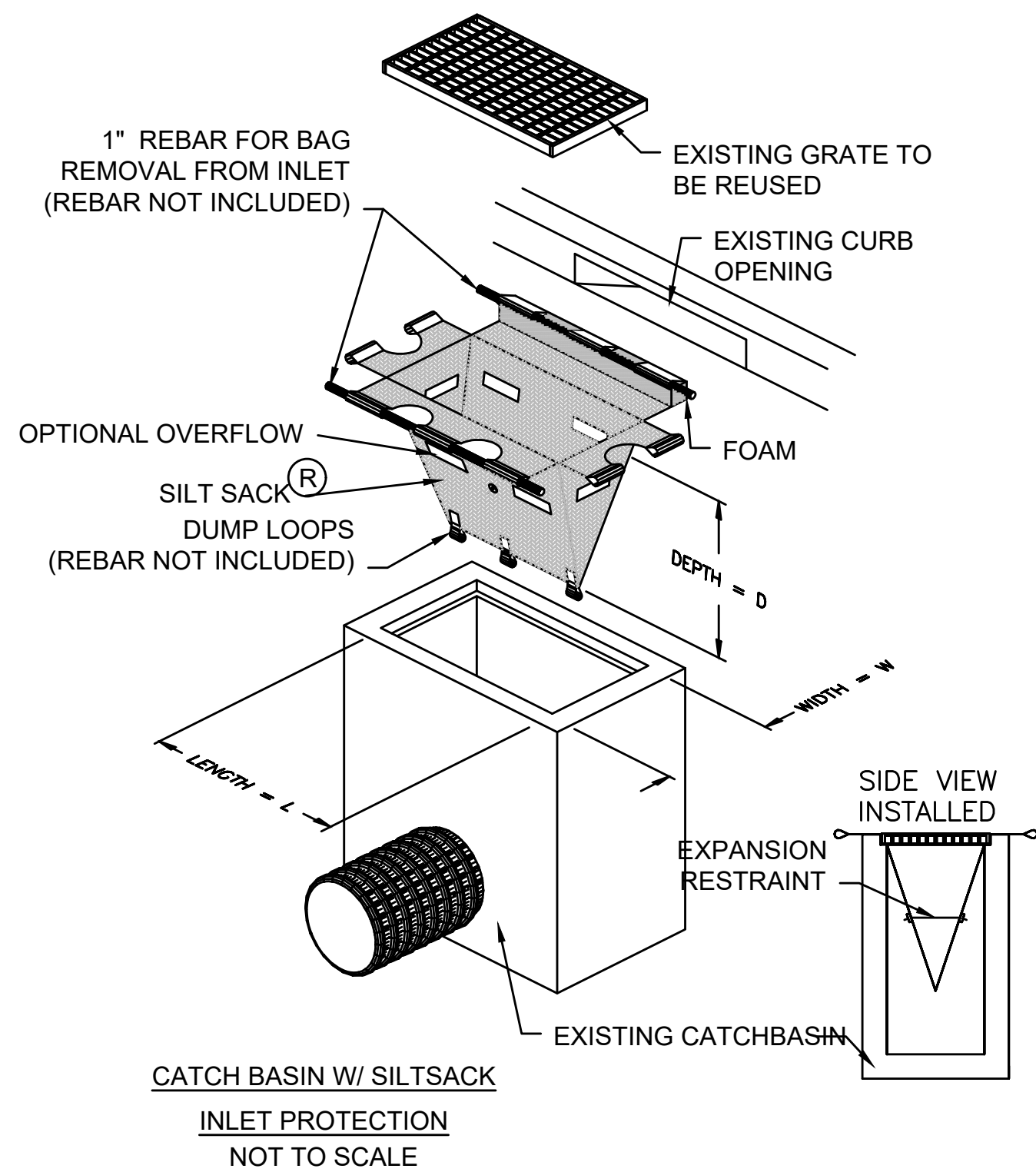
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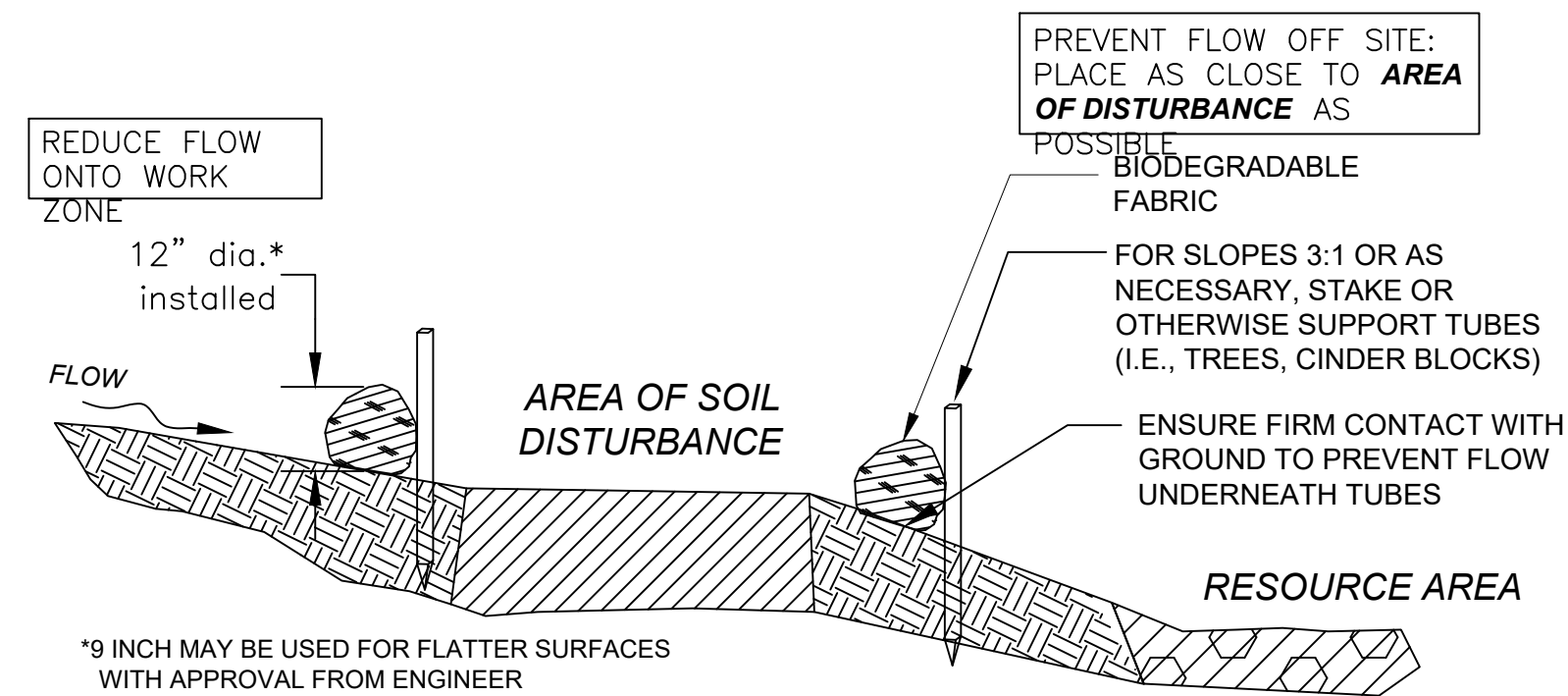
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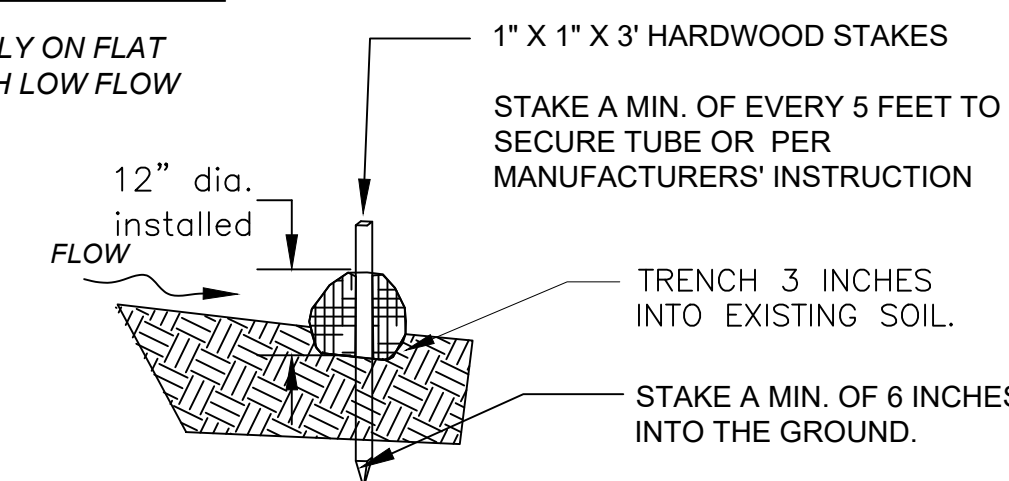


COMPOST FILTER TUBE

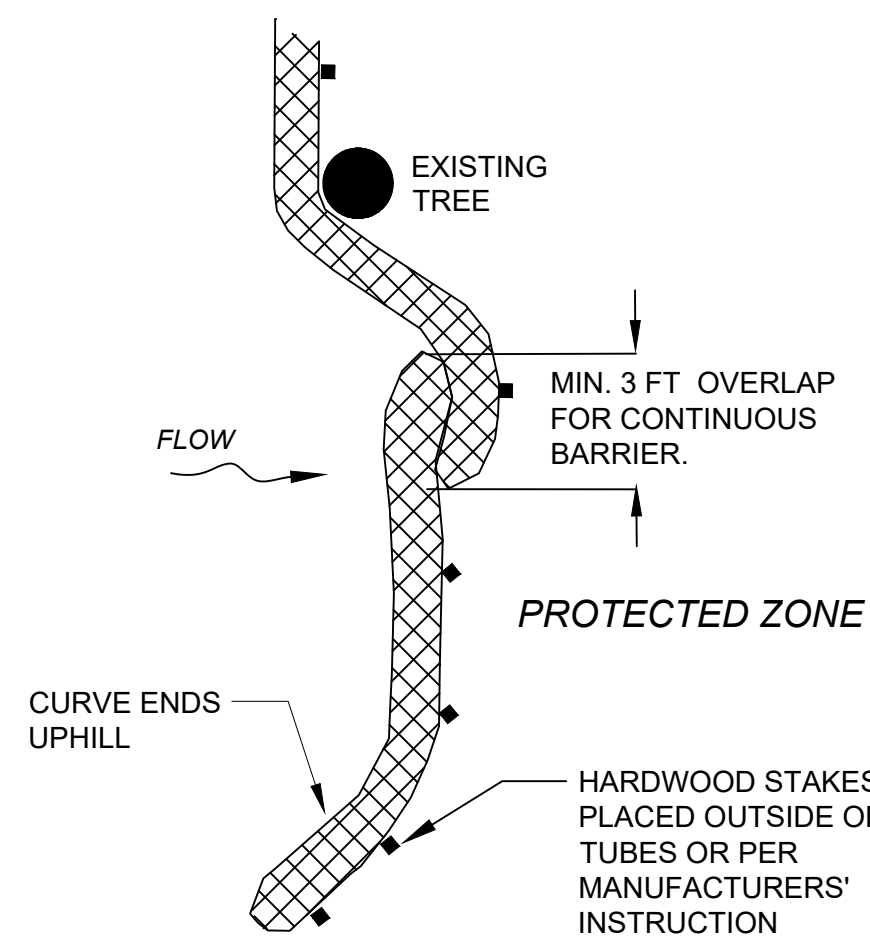


12 INCH STRAW WATTLE

TO BE USED ONLY ON FLAT SURFACES WITH LOW FLOW



SECTION



PLACE TUBE ALONG CONTOURS AND PERPENDICULAR TO FLOW.

ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.

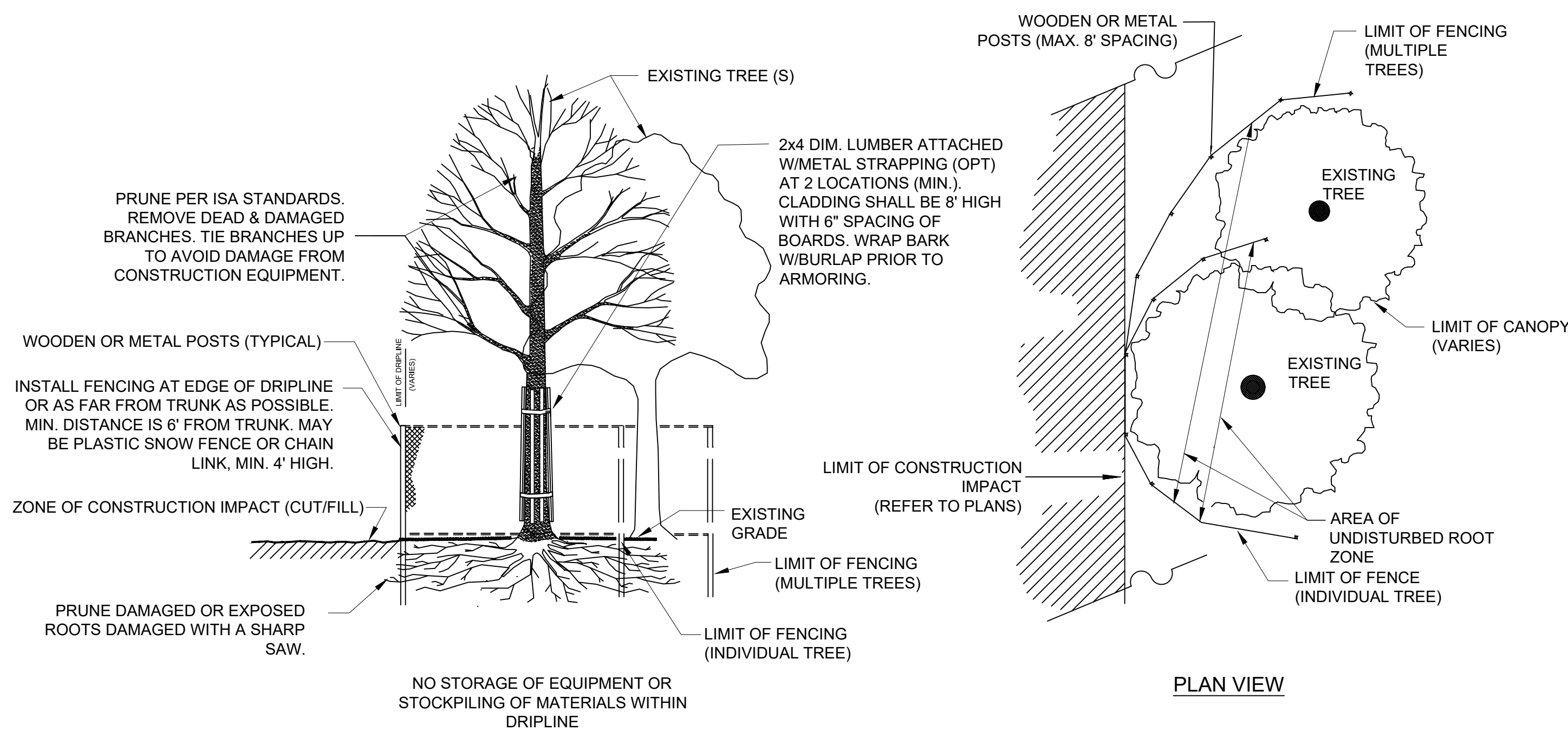
PLACE STAKES AS NEEDED TO SECURE TUBES IN PLACE.

PLAN VIEW

SEDIMENT BARRIERS - COMPOST FILTER TUBES & STRAW WATTLES

NOT TO SCALE

20181210_MassDOT



PLAN VIEW

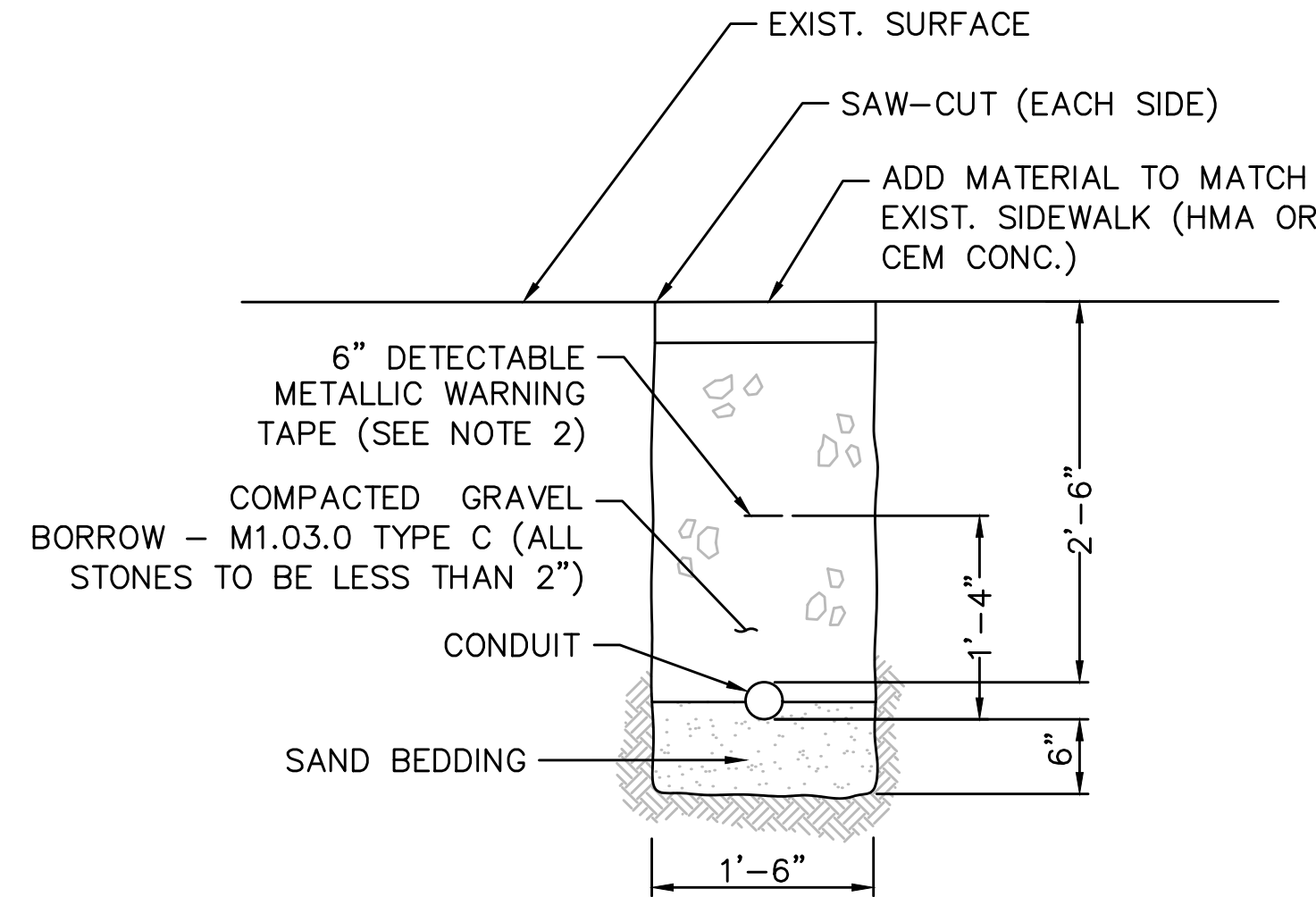
TREE PROTECTION-EXISTING TREE(S)

NOT TO SCALE

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	62	105
PROJECT FILE NO.		608829	

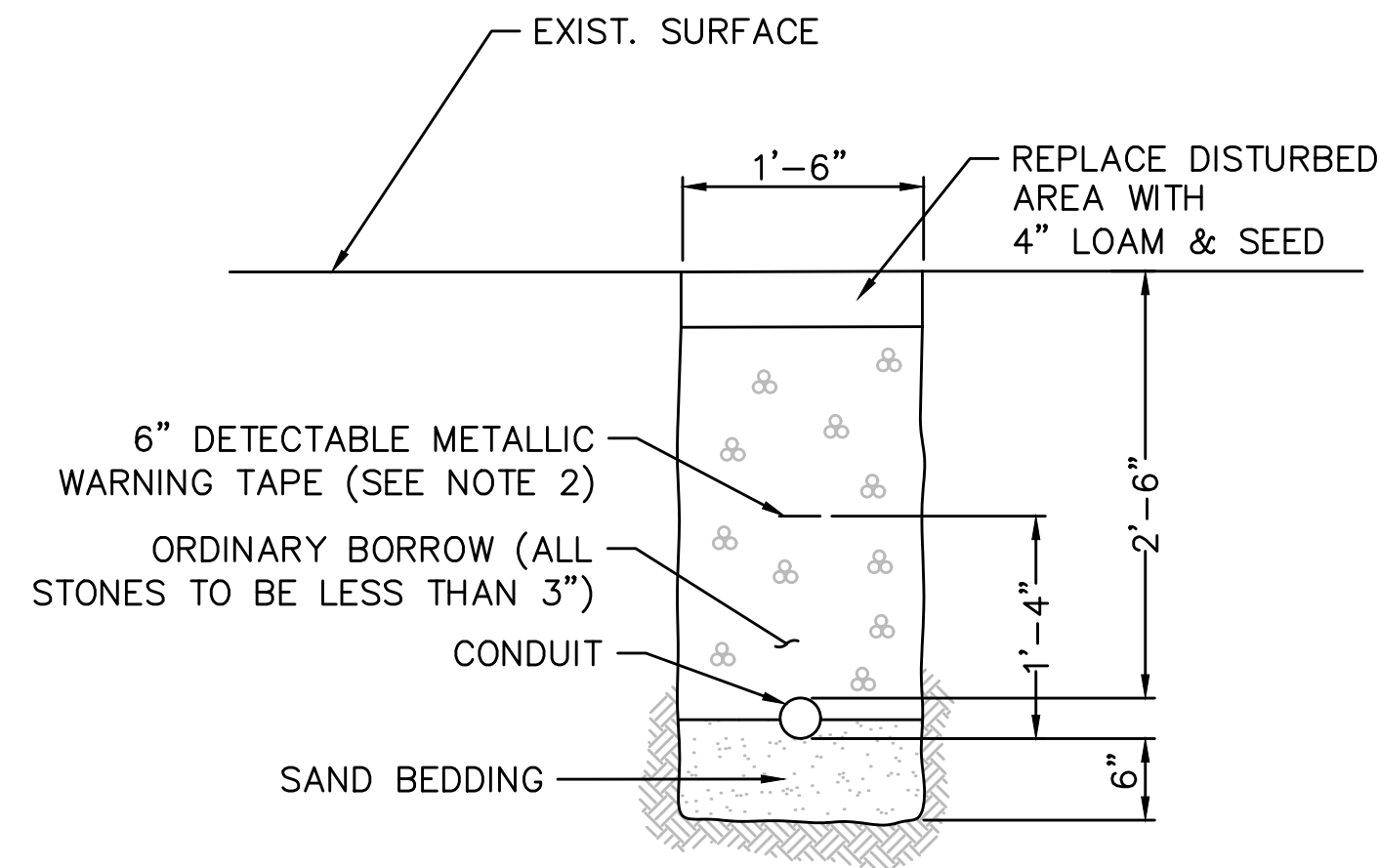
CONSTRUCTION DETAILS



NOTE:

1. SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL). WITH PULL ROPE, UNLESS OTHERWISE APPROVED BY MASSDOT.
2. WARNING TAPE SHALL BE PER CURRENT APWA STANDARDS.

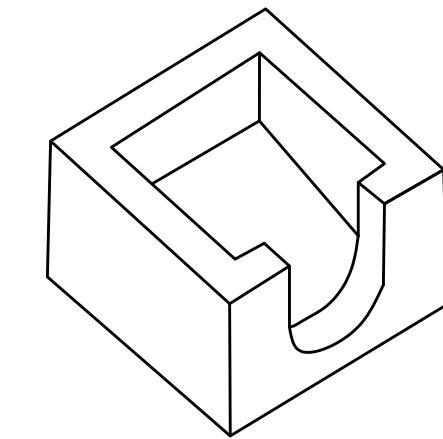
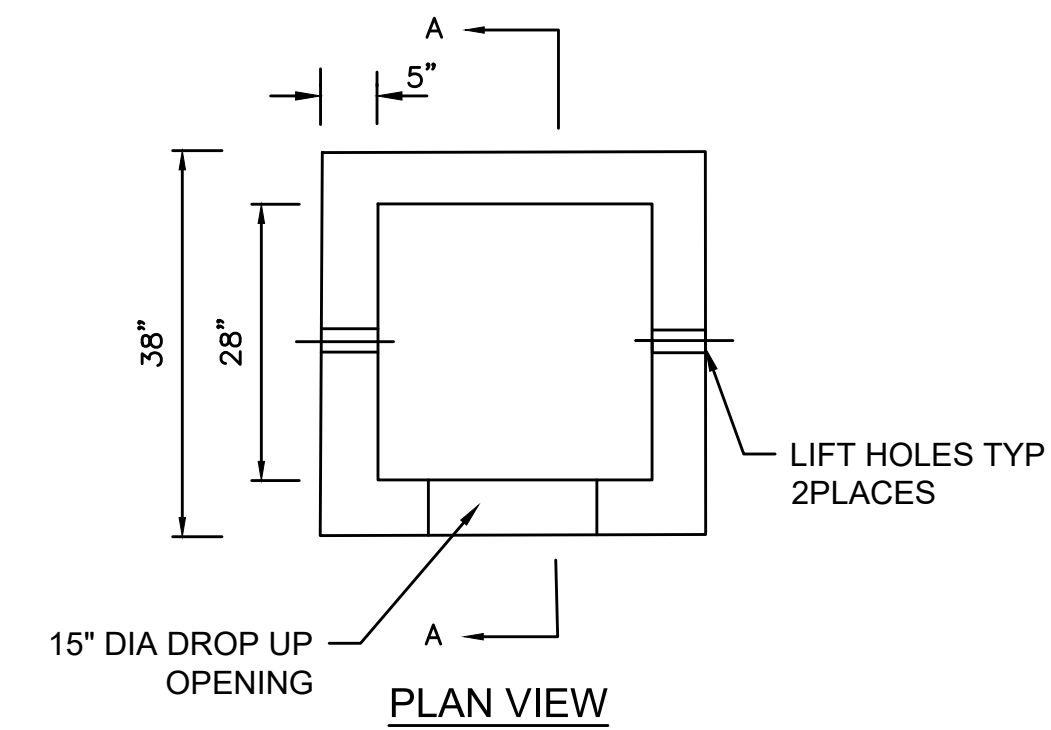
CONDUIT UNDER SIDEWALK
NOT TO SCALE



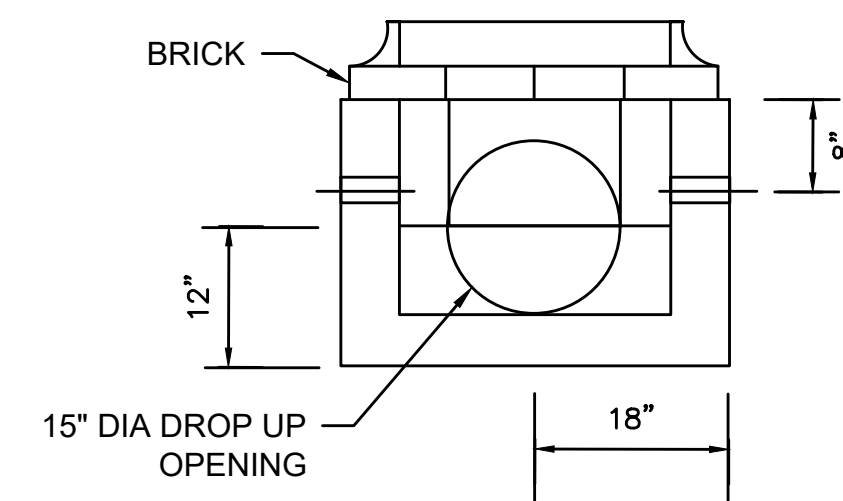
NOTE:

1. SCHEDULE 80 ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL). WITH PULL ROPE, UNLESS OTHERWISE APPROVED BY MASSDOT.
2. WARNING TAPE SHALL BE PER CURRENT APWA STANDARDS.

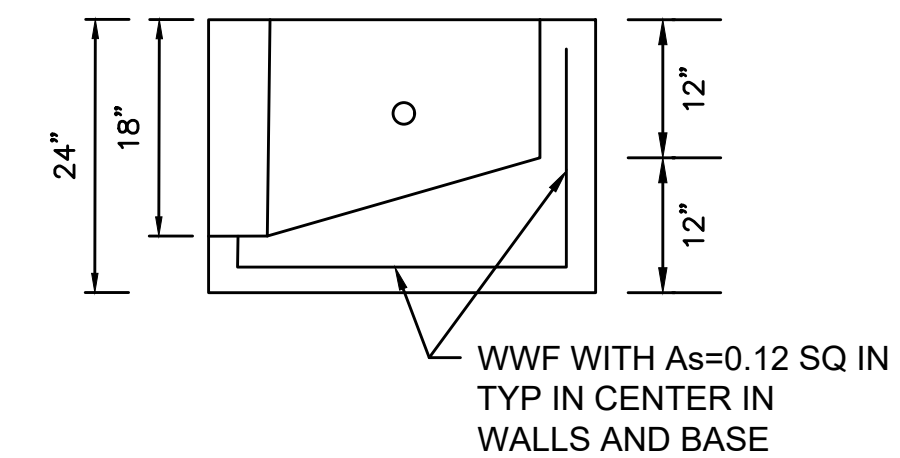
CONDUIT UNDER GRASS AREAS
NOT TO SCALE



ISOMETRIC



ELEVATION

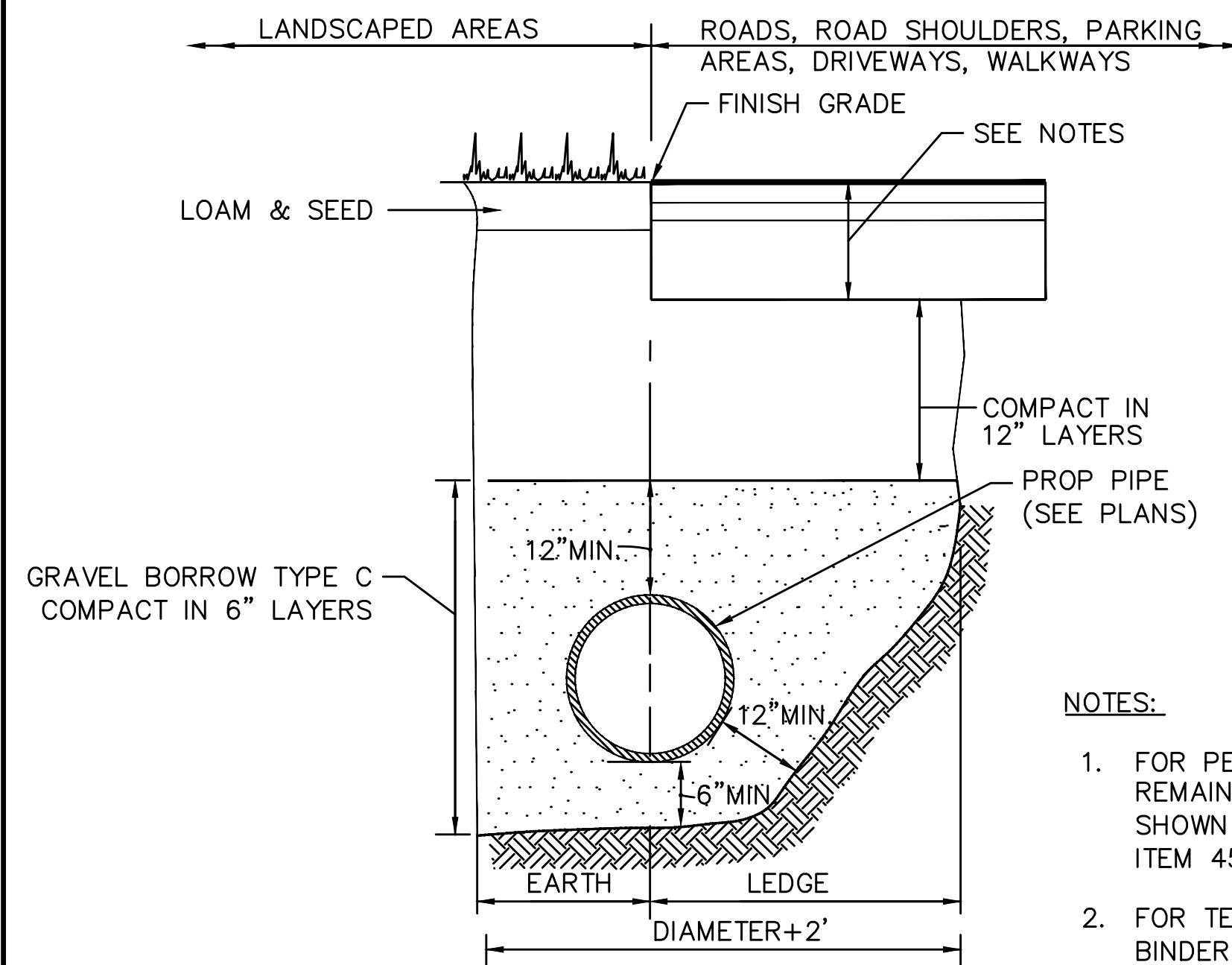


SECTION A-A

NOTES:

1. DESIGNED FOR AASHTO HS25-44 LOADING.
2. CONCRETE STRENGTH $f_c=4000$ PSI
3. REINFORCING STEEL ASTM A185 (wwf) $f_y=60,000$ PSI
4. CURB INLETS ARE REQUIRED WHEN GUTTER INLETS ARE INSTALLED AGAINST CURBING.

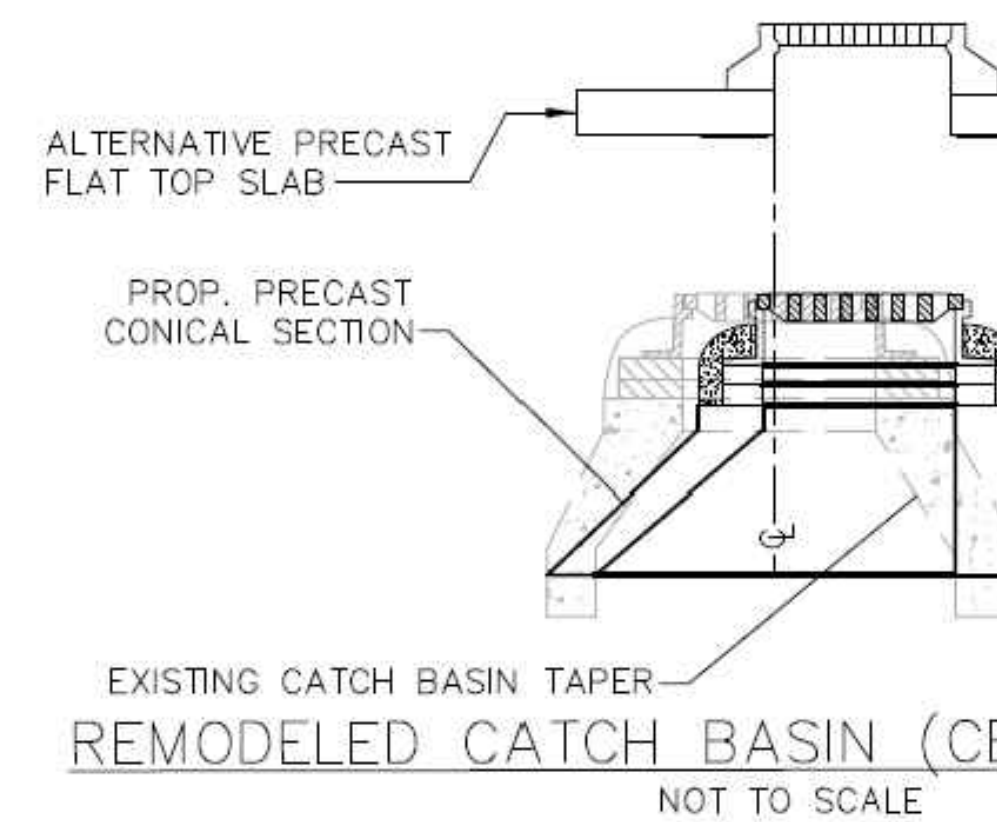
SPECIAL GUTTER INLET
NOT TO SCALE



NOTES:

1. FOR PERMANENT PATCH IN ROADWAY AREAS TO REMAIN USE FULL DEPTH PAVEMENT MATERIALS SHOWN ON TYPICAL SECTIONS (PAID FOR UNDER ITEM 451)
2. FOR TEMPORARY PATCH USE 3 INCHES HMA BINDER MIX (PAID FOR UNDER ITEM 472)

STANDARD TRENCH DETAIL



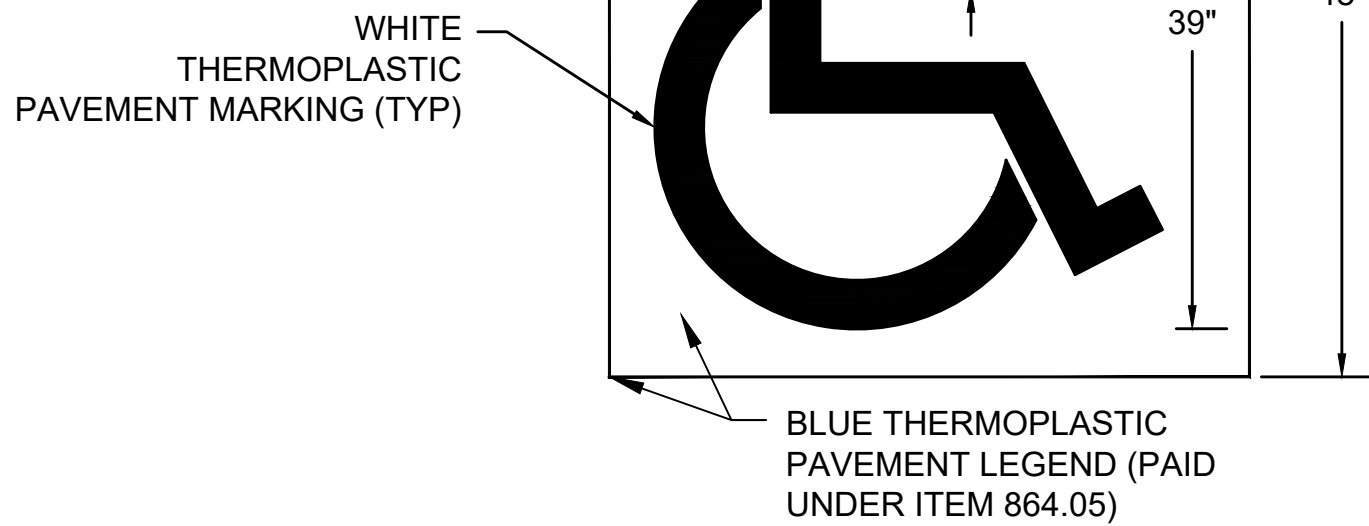
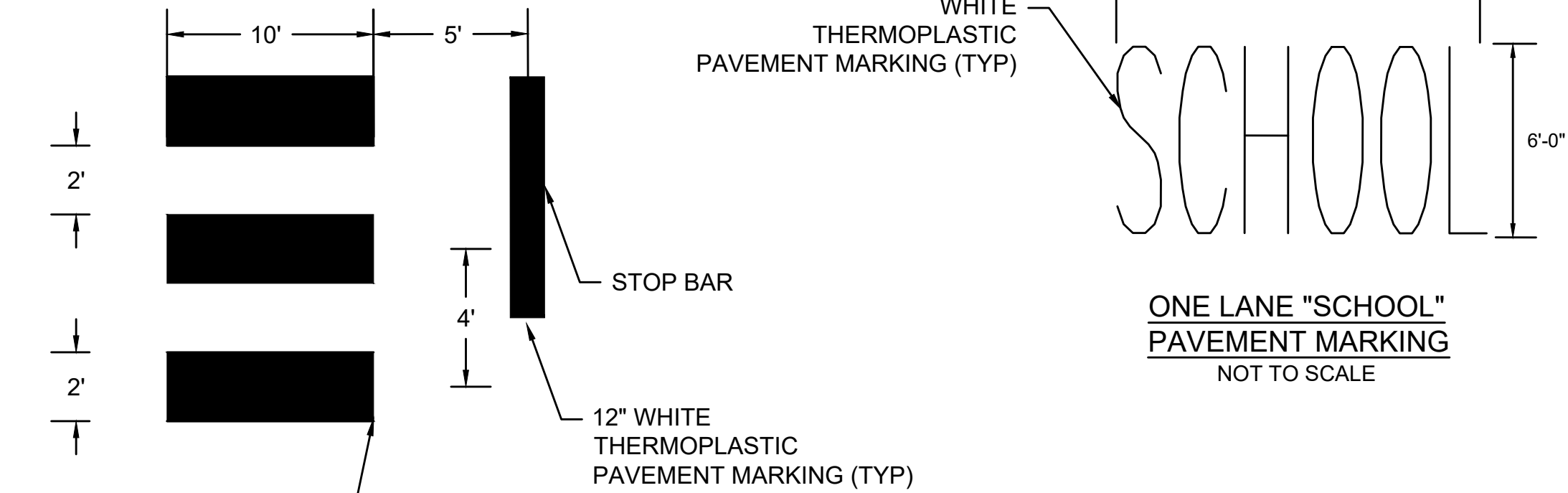
CB TREATMENT NOTES:

1. BASED ON ACTUAL FIELD CONDITIONS; THE CONTRACTOR SHALL DETERMINE WHICH STYLE OF TOP SECTION SHOULD BE USED.
2. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)

REMODELED CATCH BASIN (CB) TREATMENT
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	63	105
PROJECT FILE NO.		608829	

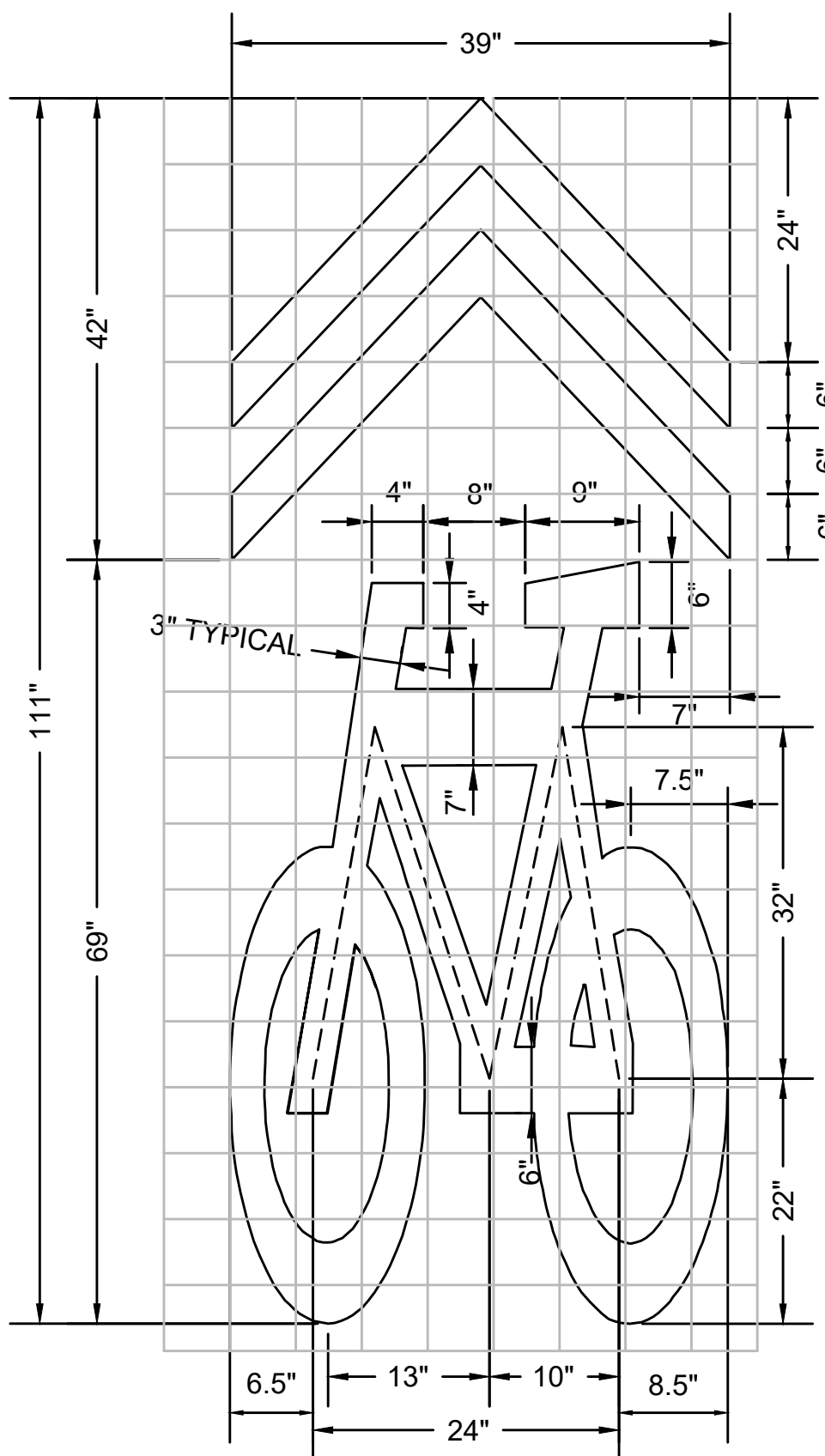
CONSTRUCTION DETAILS



NOTE: SYMBOL SHALL BE CENTERED IN PARKING STALL

ACCESSIBLE PARKING STENCIL DETAIL

NOT TO SCALE

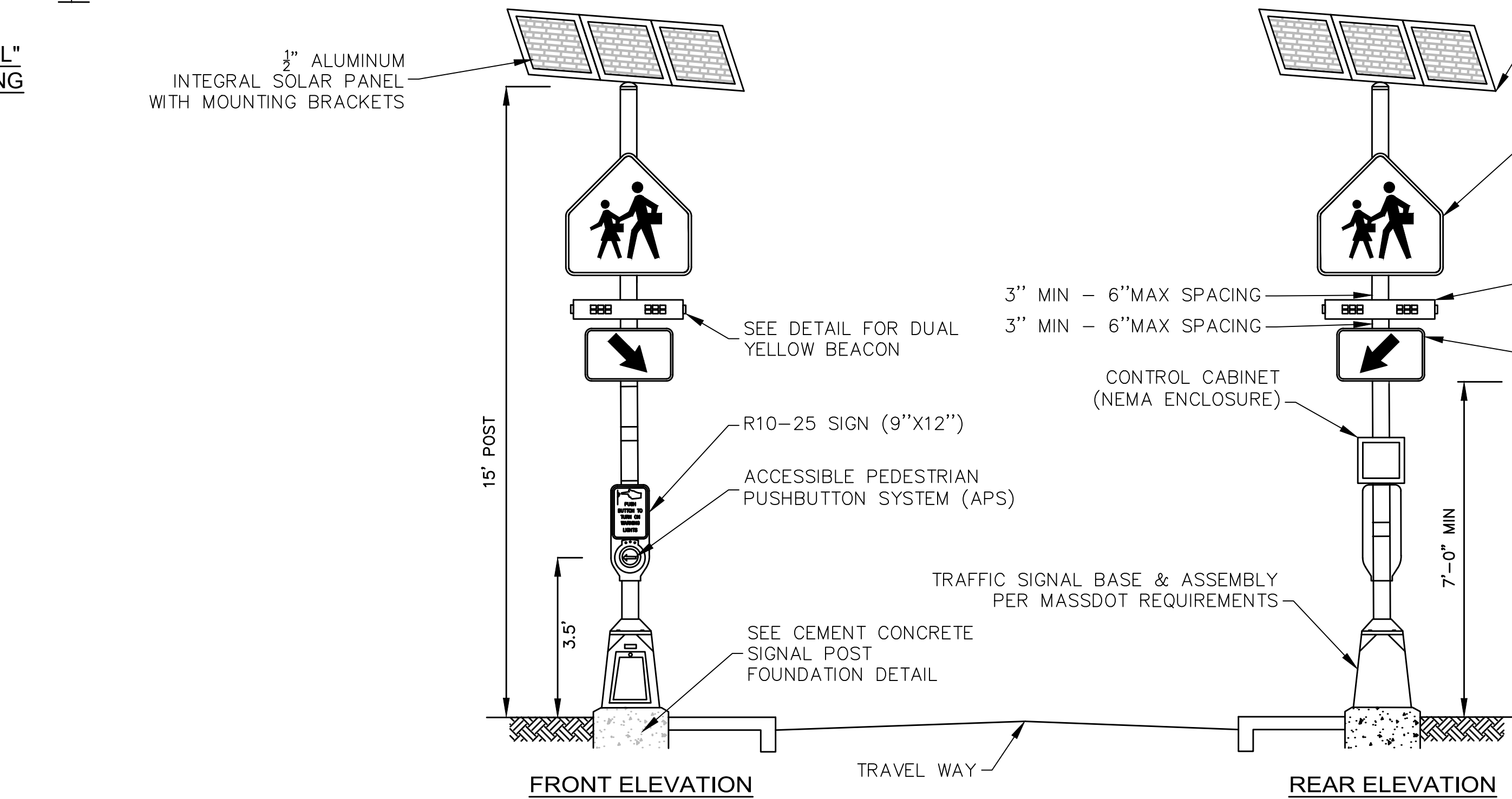


SHARROW LANE SYMBOL DETAIL

NOT TO SCALE

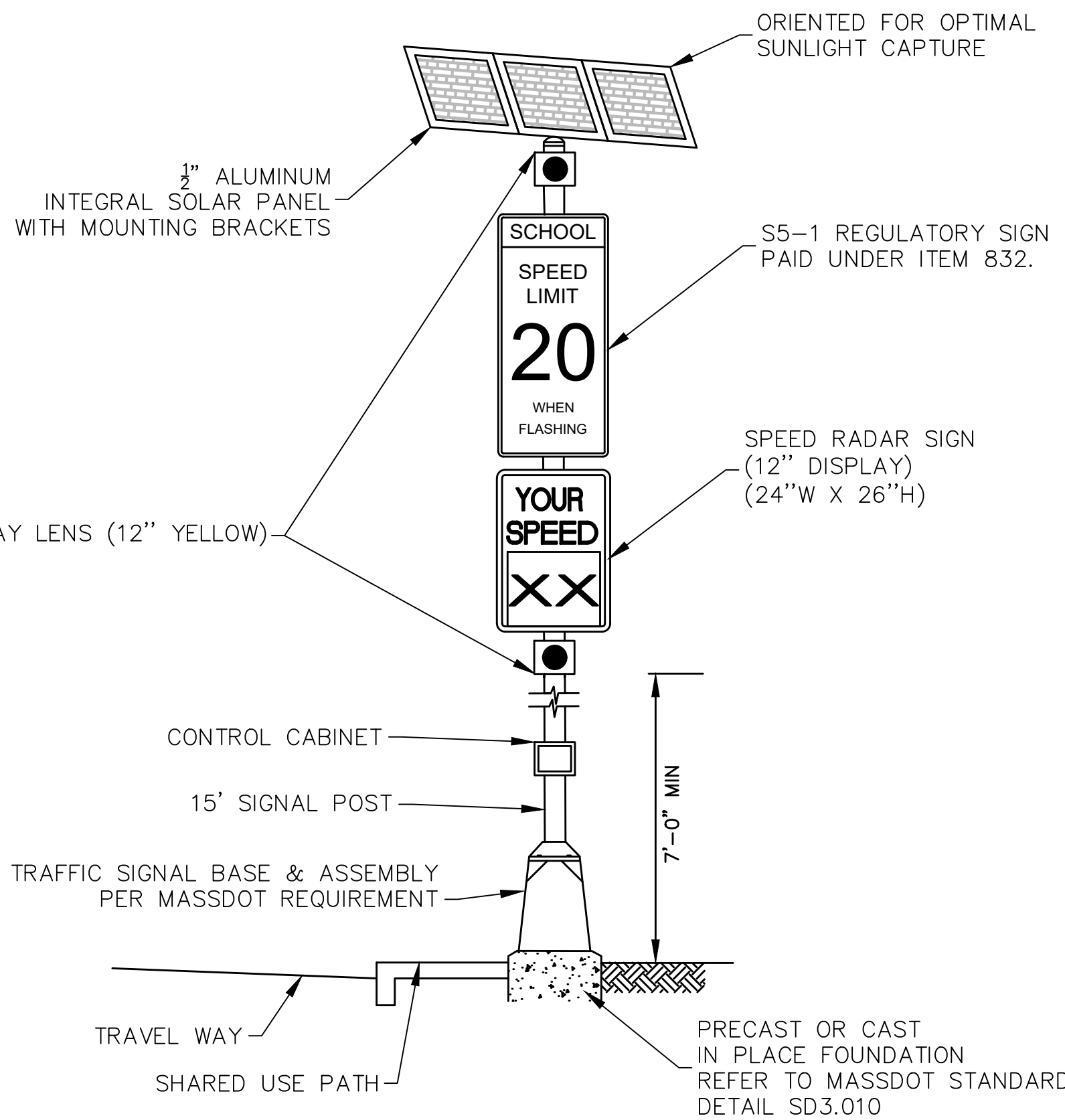
- SHARED LANE SYMBOL PLACEMENT NOTES:

1. IN LOCATIONS WITHOUT ON-STREET PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THE CENTER IS 4 FEET FROM THE ADJACENT FACE OF CURB.
2. IF LOCATED IN A TURN LANE, SHARED LANE MARKING SYMBOLS SHALL BE CENTERED IN THE LANE.
3. DO NOT PLACE SYMBOLS ON LANE LINES
4. SHARED LANE SYMBOLS SHALL BE PLACED A MAXIMUM OF 500 FEET APART.



RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY

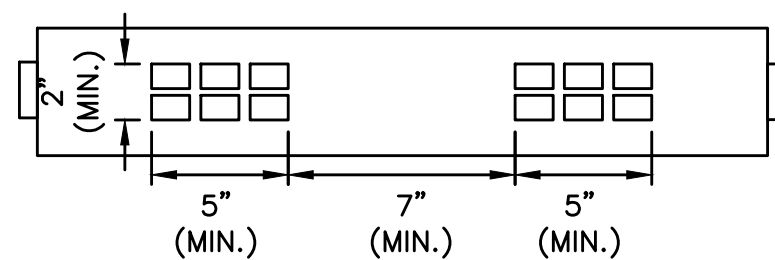
NOT TO SCALE



- NOTES:
1. FLASHING OPERATIONS SHALL COMPLY WITH SECTION 4L.04 OF THE 2009 MUTCD.
 2. SIGNAL POST, BASE, RADAR SIGN DISPLAY & SOLAR PANEL SHALL BE CONSIDERED INCIDENTAL AND SHALL BE PAID UNDER ITEM 824.11

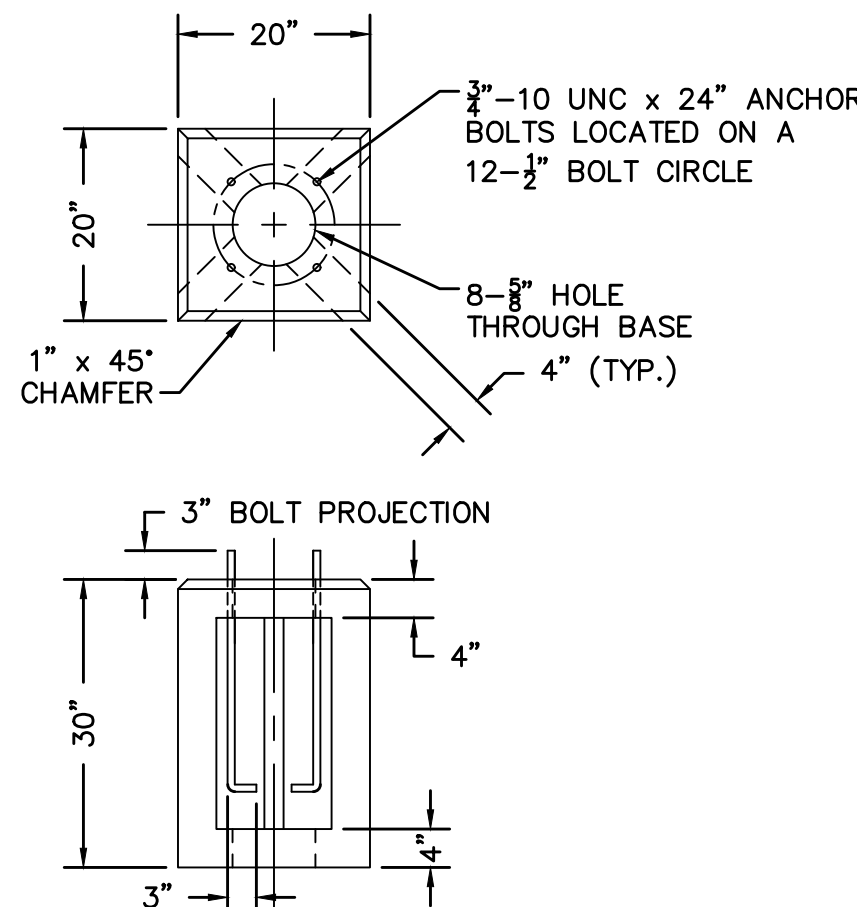
SCHOOL ZONE FLASHING WARNING BEACON WITH RADAR
SPEED FEEDBACK SIGN ASSEMBLY
NOT TO SCALE

- NOTES:
1. CROSSWALK AND ADA-COMPLAINT RAMPS NOT SHOWN, SEE PLANS FOR LOCATIONS.
 2. ACCESS TO ALL PEDESTRIAN ACTUATED CONTROL SHALL BE ADA/AAB COMPLAINT.
 3. CONTROLLER SHALL BE POLE MOUNTED AND WIRELESS COMMUNICATION BETWEEN EACH FLASHING BEACON.
 4. POWER SOURCE SHALL BE SOLAR POWER WITH BATTERY BACKUP.
 5. THE BEACON SHALL PROVIDE FLASH OPERATION UPON PEDESTRIAN ACTUATION.
 6. UPON ACTUATION, THE FLASHER SHALL FLASH FOR A DURATION FOR 15 SECONDS.



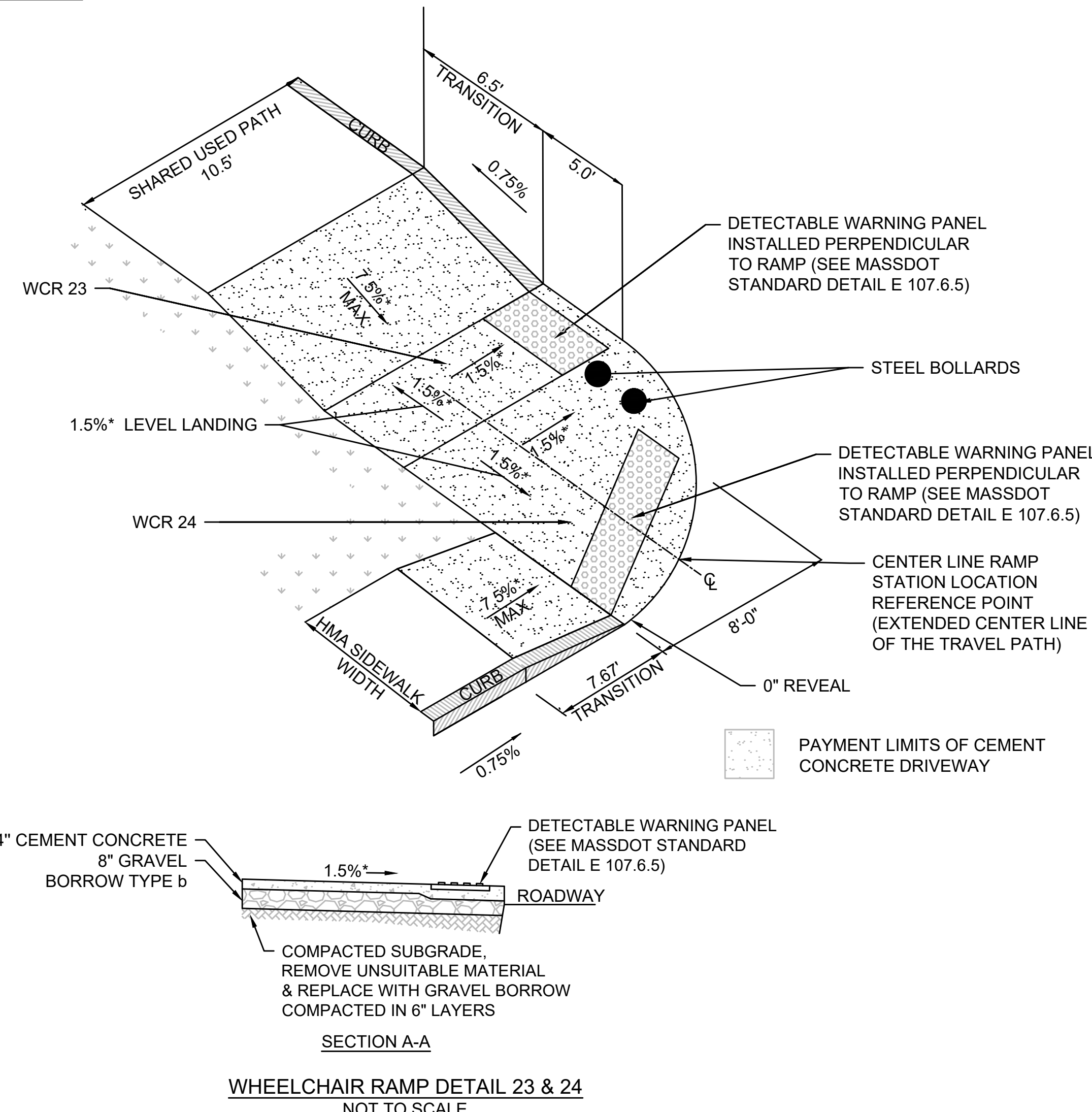
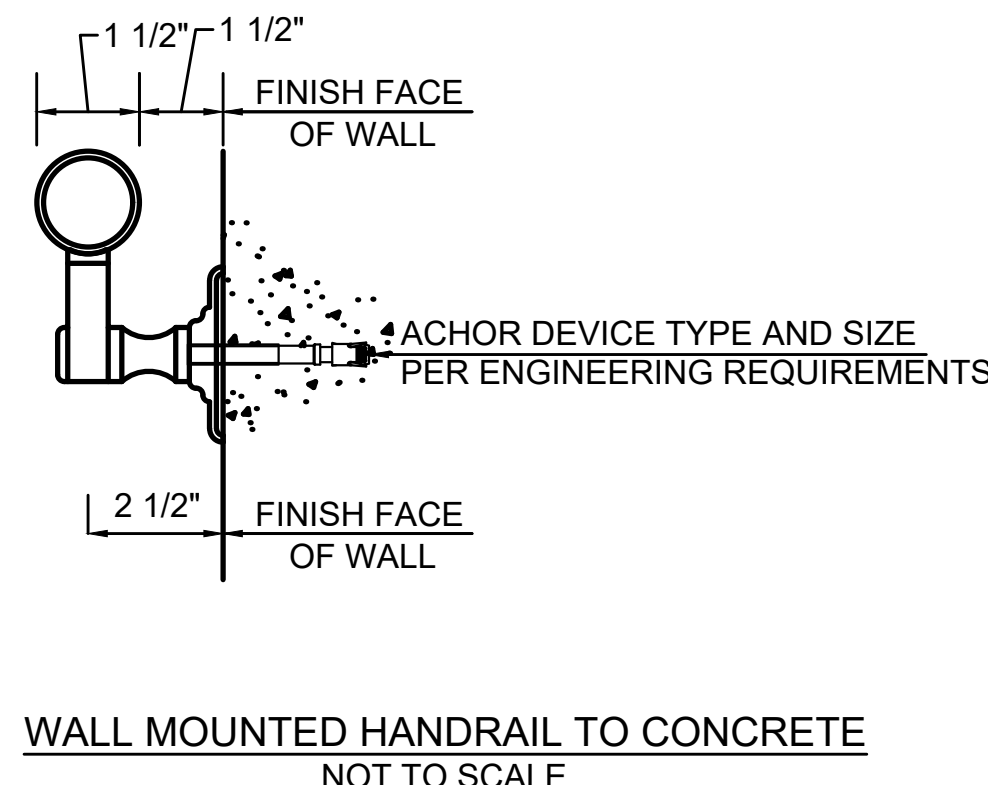
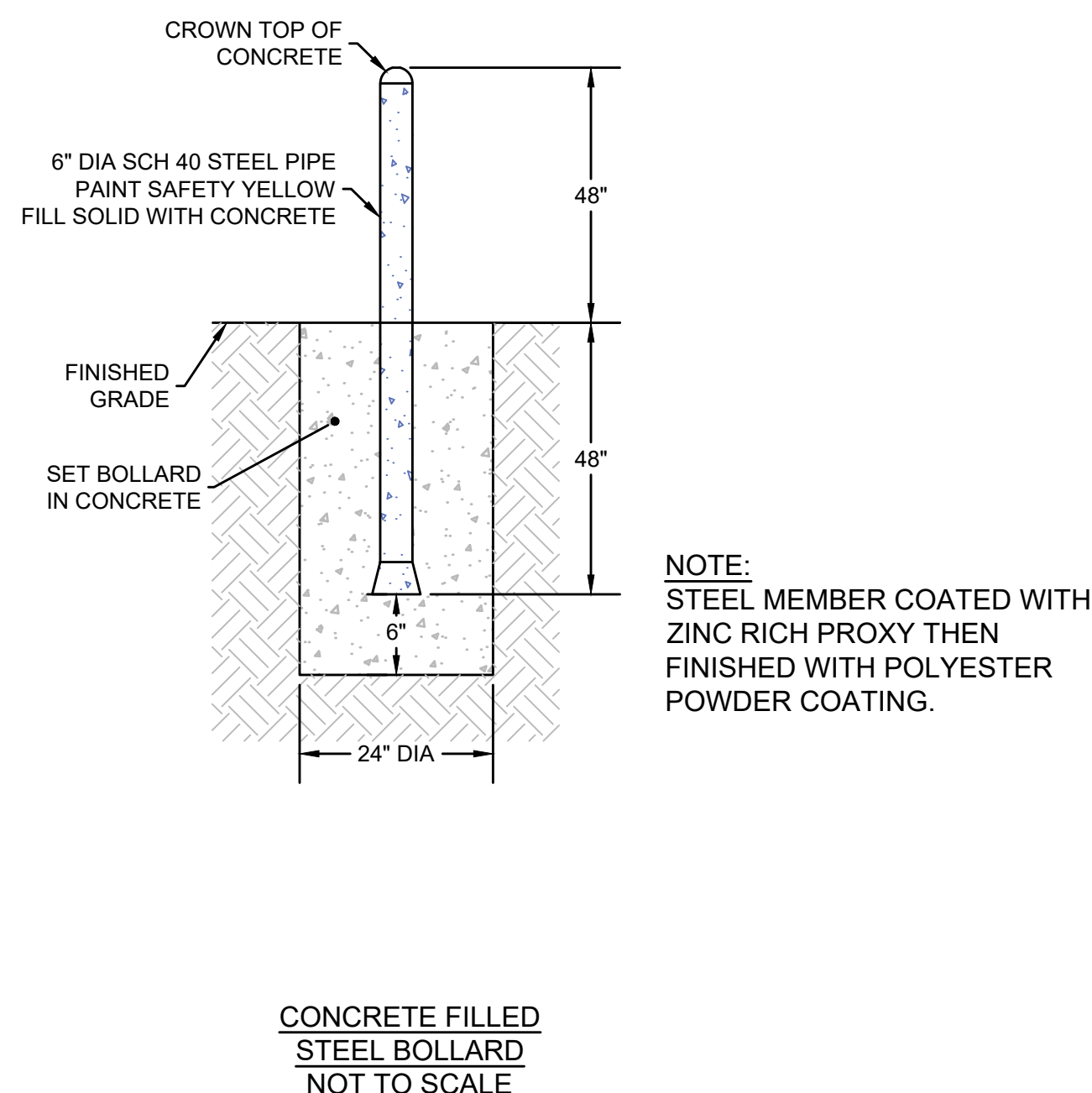
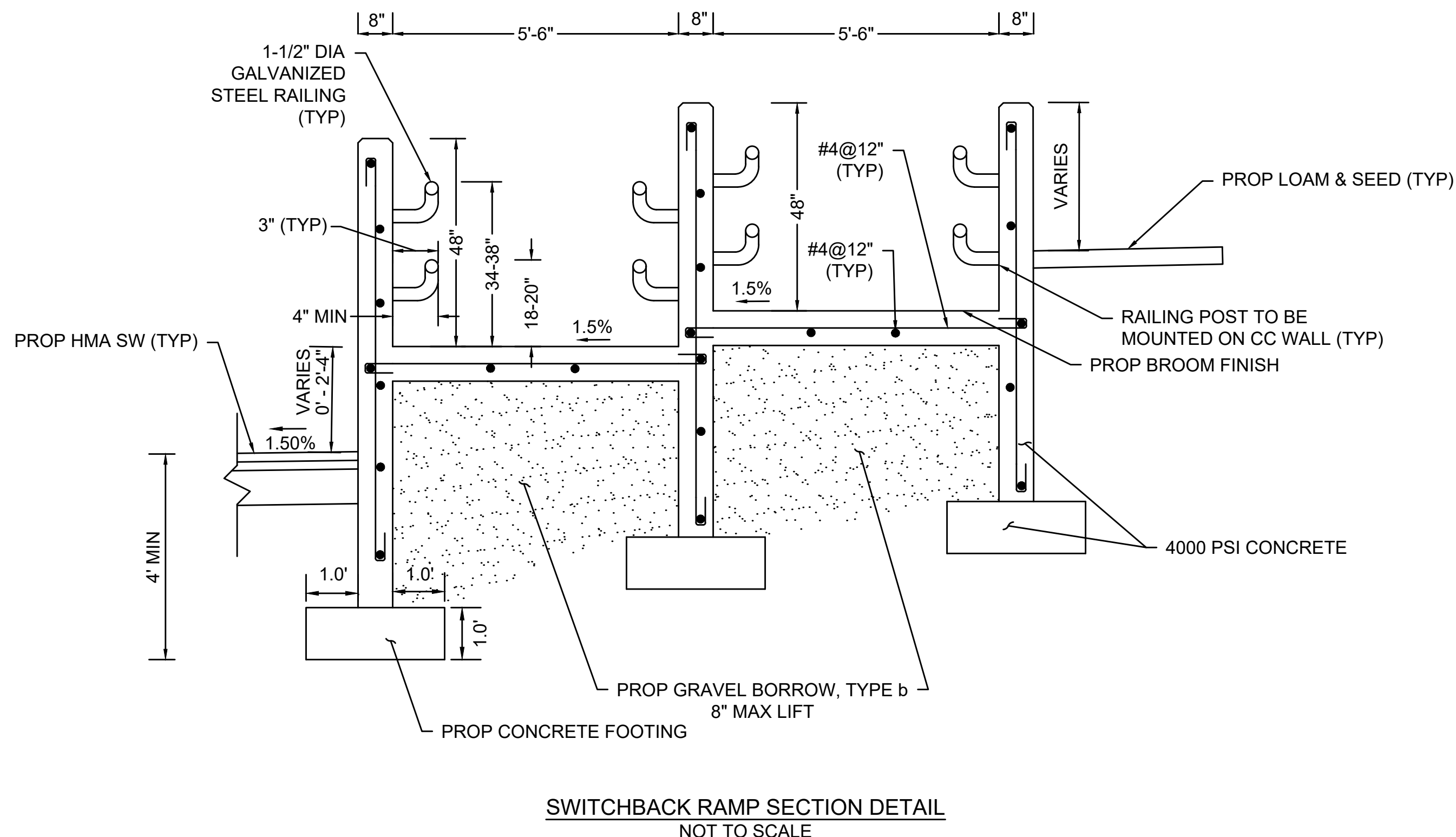
DUAL YELLOW BEACON DETAILS

NOT TO SCALE

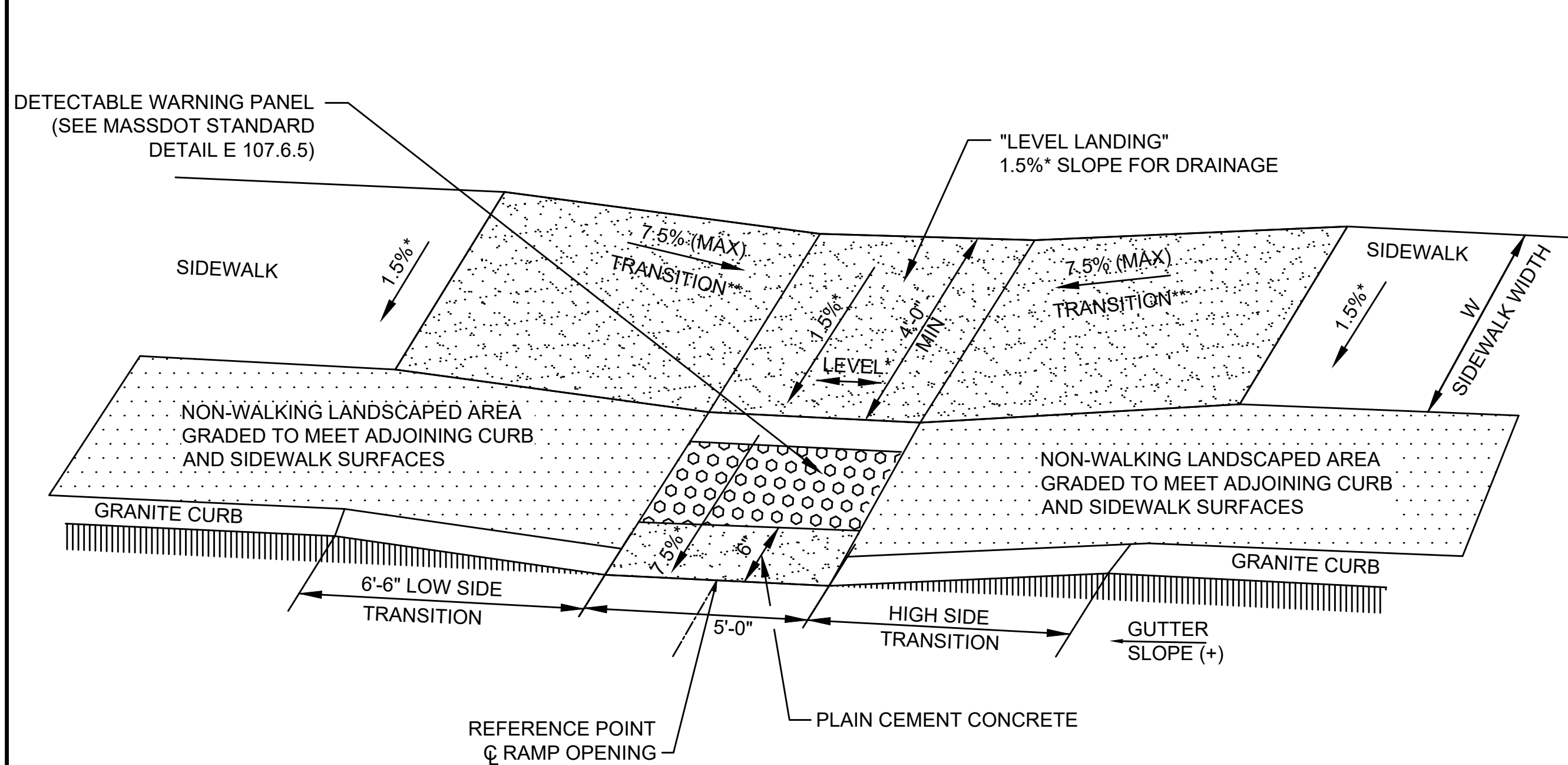


- GENERAL NOTES:
1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH $f'_c = 5,000$ PSI, TYPE III
 2. REBAR: GRADE 60 PER ASTM A615 (EPOXY).

RRFB POST FOUNDATION
N.T.S



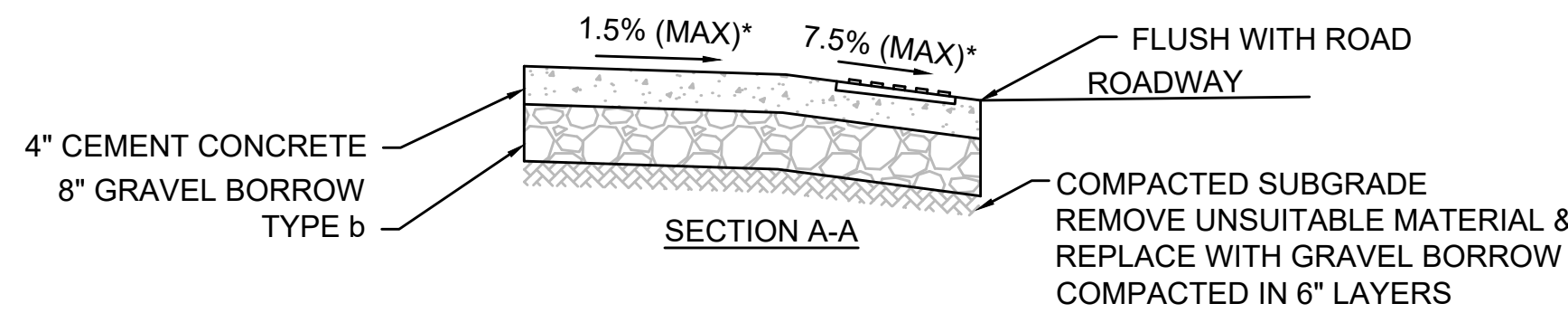
WHEELCHAIR RAMP DATA - RAMP 23 & 24								
WHEEL- CHAIR NUMBER	STREET NAME &	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
23	CENTRAL STREET	54+23.74	13.00' RT	5'-0"	10'-6"	-0.75%	6.50'	-
24	CENTRAL STREET	54+35.61	19.50' RT	8'-0"	10'-6"	-0.75%	-	7.67'



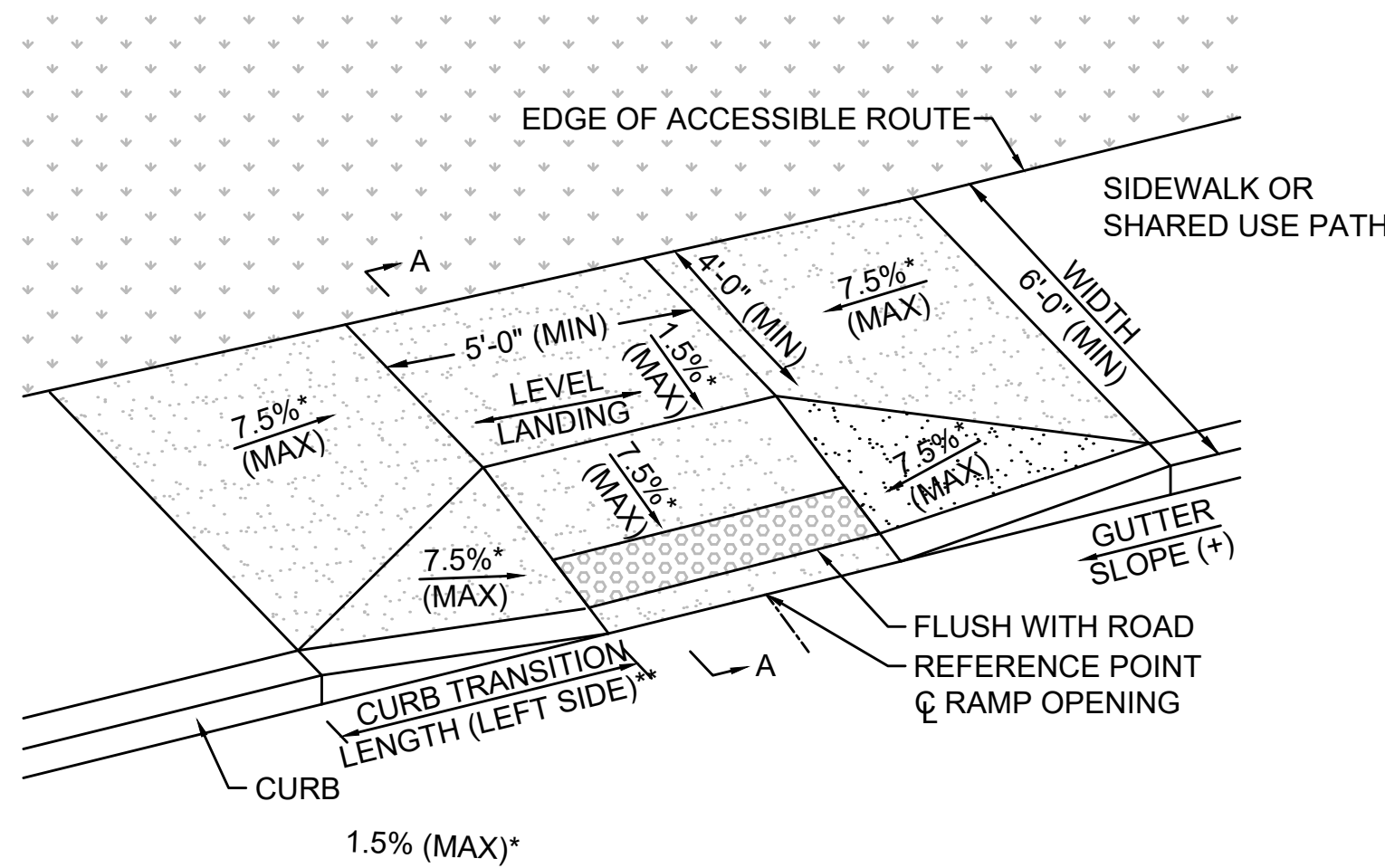
LEGEND:

* = TOLERANCE FOR CONSTRUCTION ±0.5%

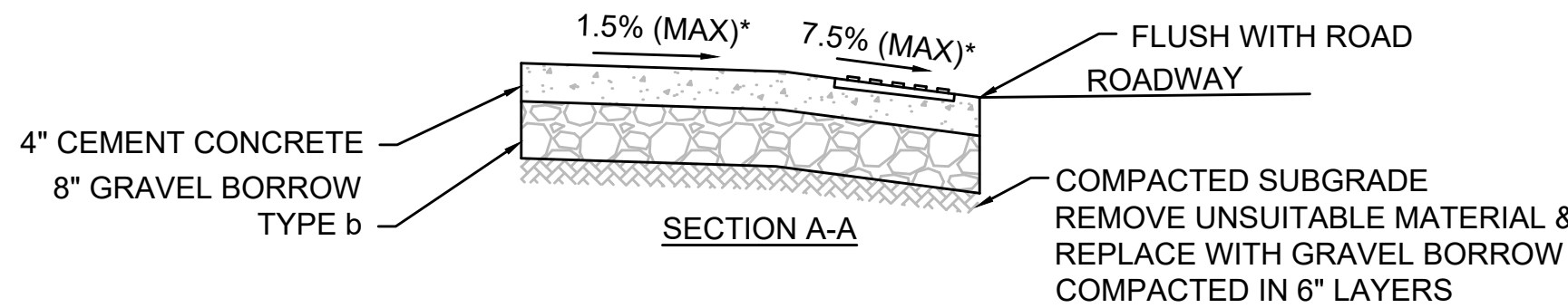
PAYMENT LIMITS OF CEMENT CONCRETE WHEELCHAIR RAMPS



ACCESSIBLE RAMP WITH
LANDSCAPED STRIP DETAIL
WITH GRANITE CURB TRANSITION ALONG ROADWAY
NOT TO SCALE



PAYMENT LIMITS OF CEMENT CONCRETE WHEELCHAIR RAMPS



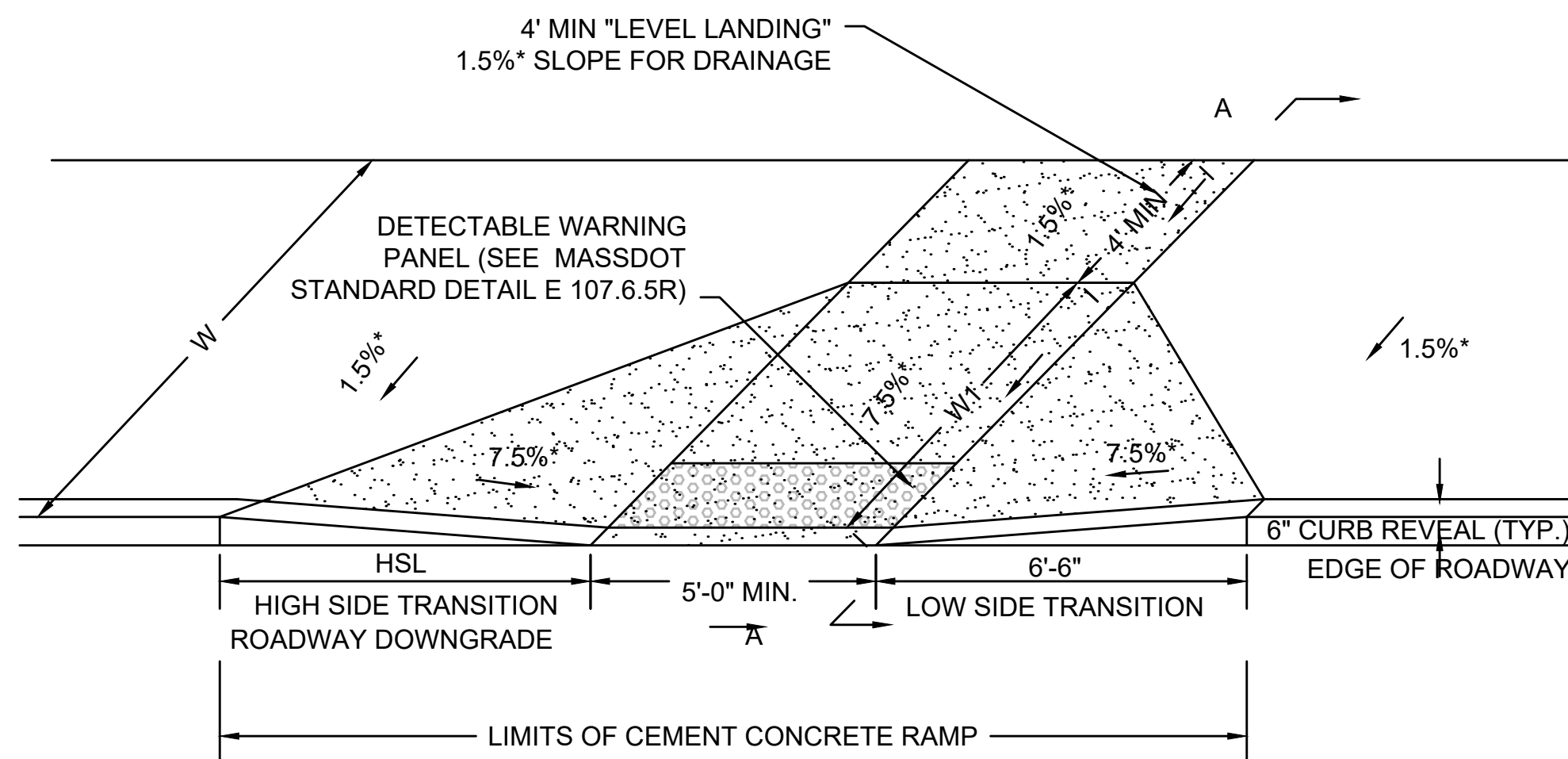
SEE MASSDOT STANDARD DRAWING NUMBER E107.2.0. FOR
WHEEL CHAIR RAMP LESS THAN 12'-4" SIDEWALK.

WHEELCHAIR RAMP TYPE C
NOT TO SCALE

WHEELCHAIR RAMP DATA								
WHEELCHAIR RAMP NUMBER	STREET NAME &	STATION	OFFSET	SIDEWALK WIDTH	RAMP OPENING WIDTH	GUTTER SLOPE	TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
8	CENTRAL STREET	39+55.05	15.79' LT	5'-0"	5'-0"	4.00%	6.50'	11.00'
12	CENTRAL STREET	48+80.57	15.64' LT	4'-7"	5'-0"	1.45%	6.50'	7.67'

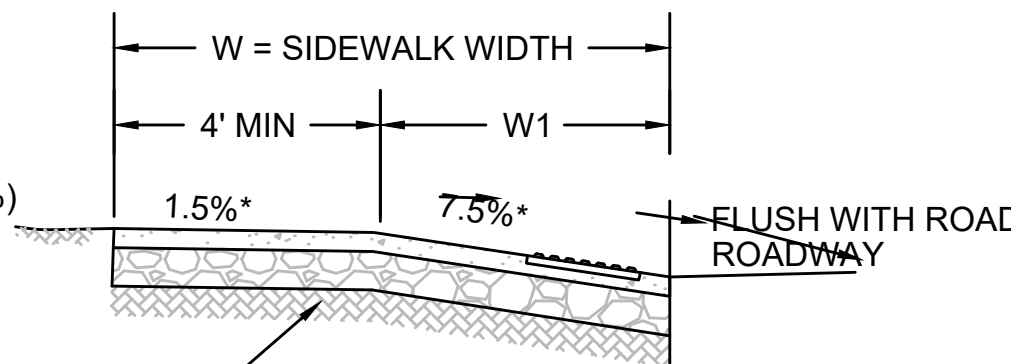
WHEELCHAIR RAMP DATA - ONE DIRECTION OF TRAVEL								
WHEEL- CHAIR NUMBER	STREET NAME &	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	GUTTER SLOPE	TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
10	CENTRAL STREET	46+09.92	18.50' RT	8'-0"	10'-6"	-0.33%	9.15'	7.23'
11	CENTRAL STREET	48+80.53	13.00' RT	5'-0"	10'-6"	-1.17%	7.67'	6.50'
20	CENTRAL STREET	52+86.16	18.78' RT	8'-0"	10'-6"	2.00%	6.50'	11.00'
22	CENTRAL STREET	53+73.99	18.83' RT	8'-0"	10'-6"	2.10%	6.60'	11.00'

NOTE:
"-" INDICATES DOWN SLOPE



LEGEND:

CC = CEMENT CONCRETE
HSL = HIGH SIDE TRANSITION LENGTH
(SEE E 107.9.0R)
W = SIDEWALK WIDTH
W1 = PERPENDICULAR RAMP LENGTH
* = TOLERANCE FOR CONSTRUCTION (± 0.5%)



NOTE:
1. SEE DRAWING E107.3.0 OF THE MASSDOT
CONSTRUCTION STANDARDS.

WHEELCHAIR RAMP
GREATER THAN 12'-4" SIDEWALK
NOT TO SCALE

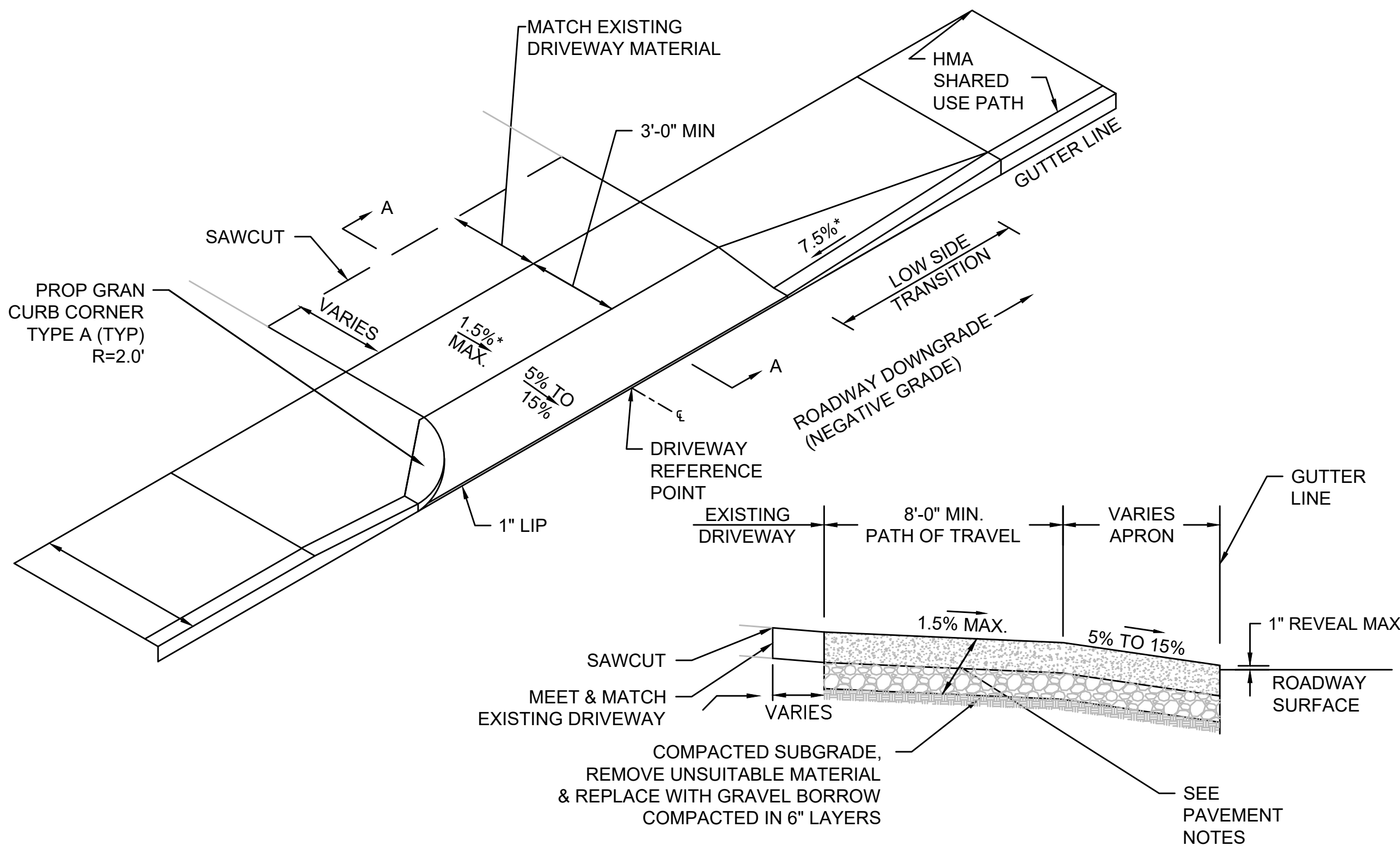
WHEELCHAIR RAMP DATA - ONE DIRECTION OF TRAVEL								
WHEEL- CHAIR NUMBER	STREET NAME &	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	GUTTER SLOPE	TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
18	CENTRAL STREET	50+84.90	100.31' RT	8'-0"	VARIES	-5.23% (L) /-6.00% (R)	6.50'	6.50'

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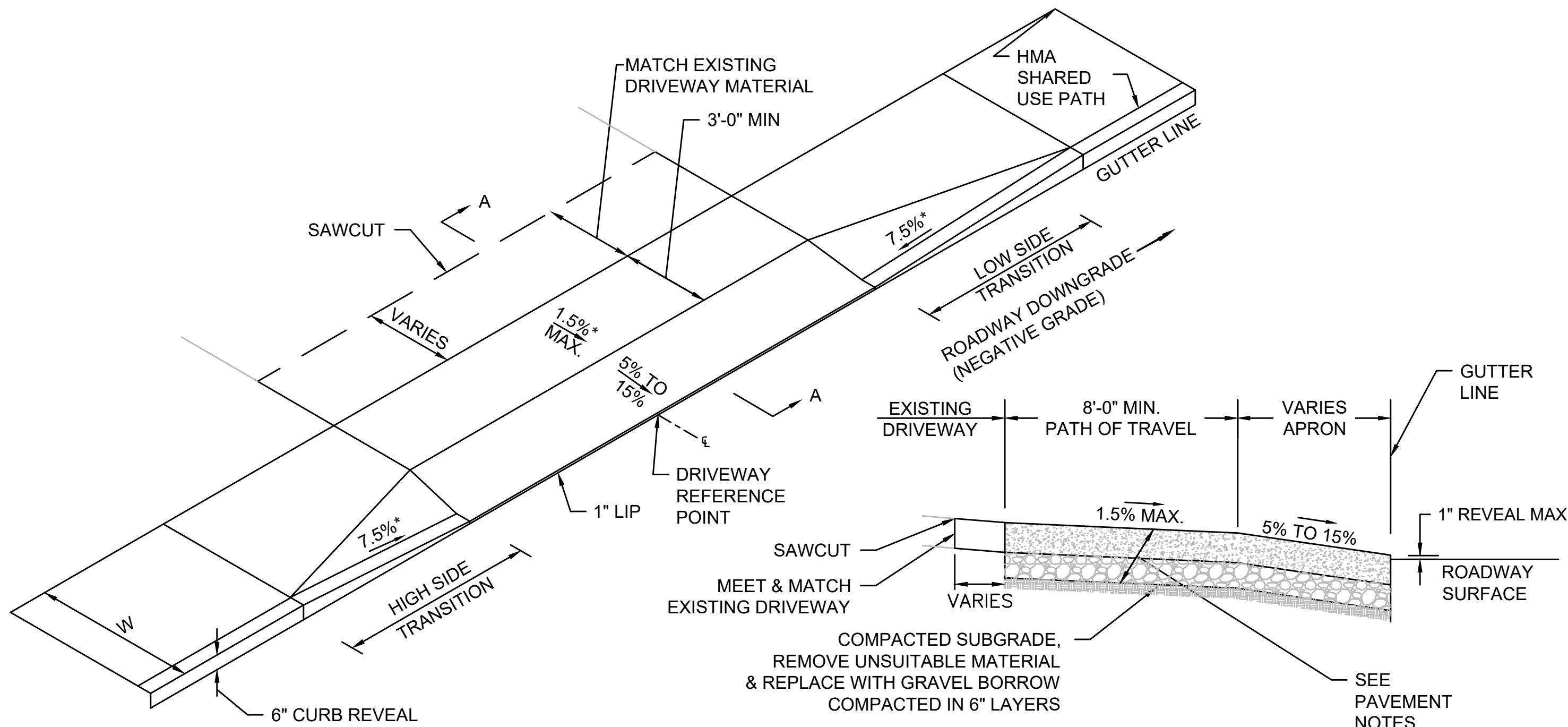
STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	67	105
PROJECT FILE NO.		608829	

CONSTRUCTION DETAILS



SECTION A-A
SHARED USE PATH THROUGH DRIVEWAY
WITH CURB RETURN ON ONE SIDE
NOT TO SCALE



SECTION A-A
SHARED USE PATH THROUGH DRIVEWAY
WITHOUT CURB RETURNS
NOT TO SCALE

LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
HMA = HOT MIX ASPHALT
HSL = HIGH SIDE TRANSITION LENGTH
(SEE MASSDOT STANDARD DETAIL E 107.9.0)
* = TOLERANCE FOR CONSTRUCTION (±0.5%)

DRIVEWAY DATA - SIDEWALK WITHOUT CURB RETURNS								
DRIVE-WAY NUMBER	STREET NAME &	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
8	CENTRAL STREET	30+22.40	13.00' RT	16'-0"	10'-6"	1.40%	-	6.50'
9	CENTRAL STREET	30+37.36	13.00' RT	14'-0"	10'-6"	2.00%	11.00'	-
21	CENTRAL STREET	47+45.53	13.00' RT	14'-0"	10'-6"	1.26%	-	6.50'
22	CENTRAL STREET	47+68.07	13.00' RT	14'-0"	10'-6"	1.50%	9.00'	-

DRIVEWAY DATA - SIDEWALK WITHOUT CURB RETURNS								
DRIVE-WAY NUMBER	STREET NAME &	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
1	CENTRAL STREET	22+42.08	13.00' RT	18'-0"	10'-0"	-1.47%	6.50'	9.00'
2	CENTRAL STREET	23+04.18	13.00' RT	27'-0"	10'-6"	-1.44%	6.50'	9.00'
3	CENTRAL STREET	23+98.03	13.00' RT	16'-0"	10'-6"	1.05%	6.50'	9.00'
4	CENTRAL STREET	22+42.08	13.00' RT	18'-0"	10'-6"	±0.50%	6.50'	6.50'
5	CENTRAL STREET	25+50.00	13.00' RT	14'-0"	10'-6"	0.50%	7.67'	6.50'
6	CENTRAL STREET	27+07.94	13.00' RT	45'-0"	10'-6"	0.50%	7.67'	6.50'
7	CENTRAL STREET	28+75.20	13.00' RT	40'-0"	10'-6"	0.50%	7.67'	6.50'
10	CENTRAL STREET	31+16.24	13.00' RT	16'-0"	10'-6"	2.72%	11.00'	6.50'
11	CENTRAL STREET	31+95.07	13.00' RT	13'-0"	10'-6"	3.24%	14.00'	6.50'
12	CENTRAL STREET	32+65.27	13.00' RT	13'-0"	10'-6"	1.50%	-	6.50'
14	CENTRAL STREET	35+99.01	13.00' RT	18'-0"	10'-6"	2.00%	11.00'	6.50'

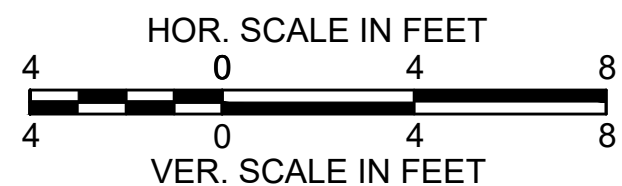
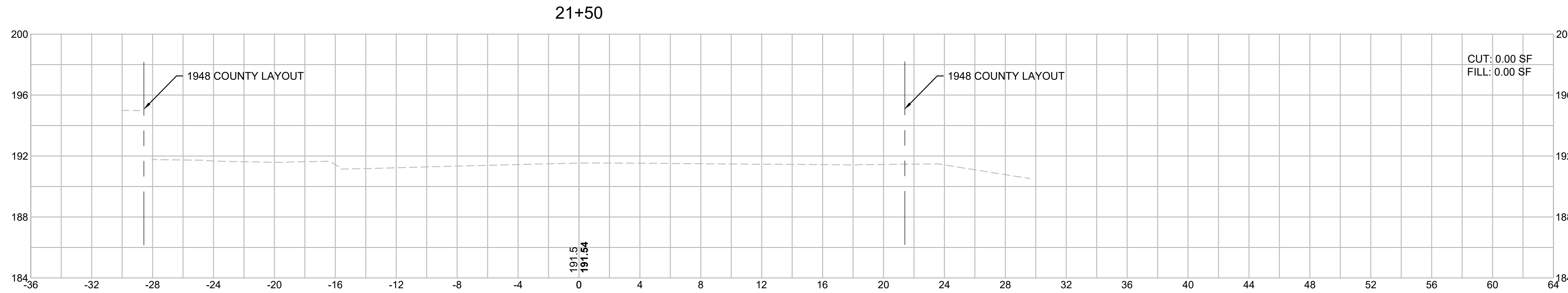
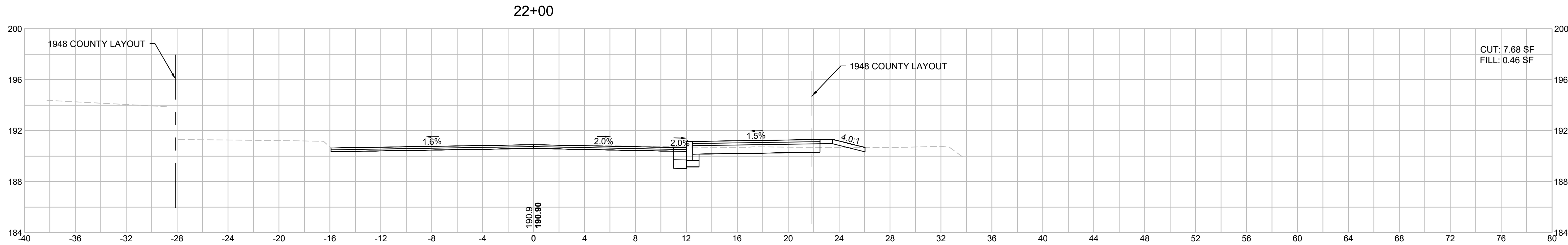
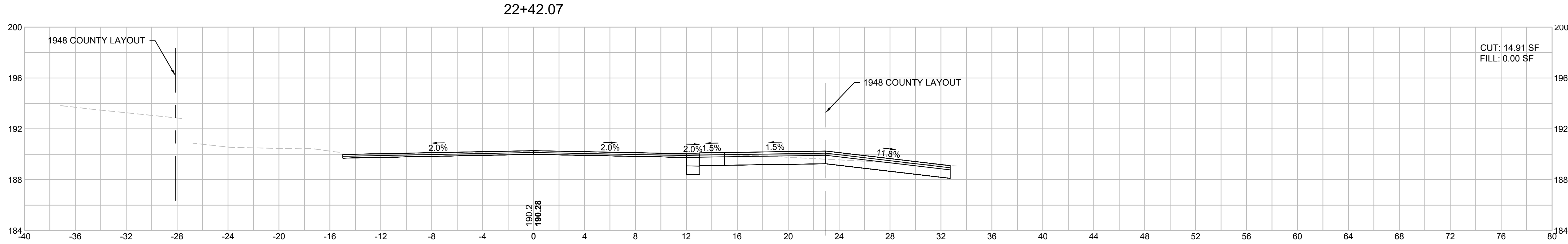
DRIVEWAY DATA - SIDEWALK WITHOUT CURB RETURNS								
DRIVE-WAY NUMBER	STREET NAME &	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
15	CENTRAL STREET	37+48.31	13.00' RT	26'-0"	10'-6"	4.20%	15.00'	6.50'
16	CENTRAL STREET	40+05.13	13.00' RT	11'-0"	10'-6"	4.00%	15.00'	6.50'
17	CENTRAL STREET	41+77.90	13.00' RT	12'-0"	10'-6"	3.00%	14.00'	6.50'
18	CENTRAL STREET	44+58.75	12.00' RT	14'-0"	VARIES	0.50%	7.67'	6.50'
19	CENTRAL STREET	44+03.63	11.88' RT	15'-0"	10'-6"	±0.50%	6.50'	6.50'
20	CENTRAL STREET	44+74.30	13.00' RT	18'-0"	10'-6"	-0.50%	6.50'	7.67'
23	CENTRAL STREET	48+37.56	13.00' RT	16'-0"	10'-6"	1.31%	9.00'	6.50'

NOTE:
"-" INDICATES DOWN SLOPE

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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
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MA	-	68	105
PROJECT FILE NO.		608829	

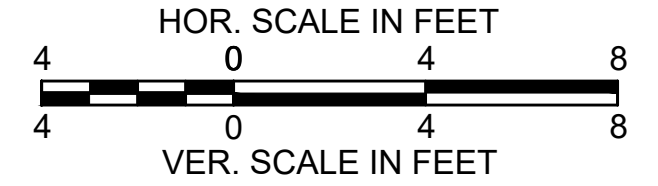
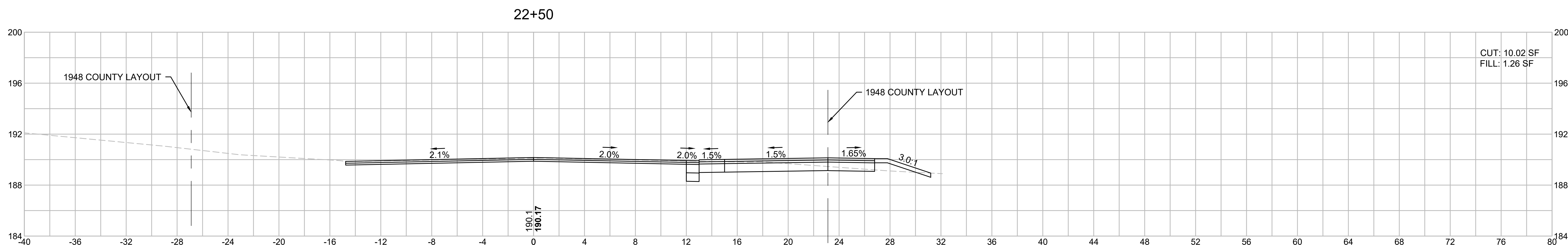
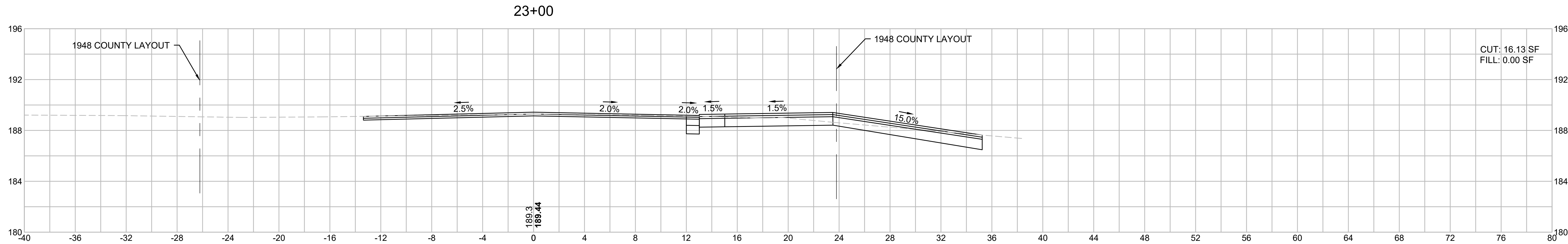
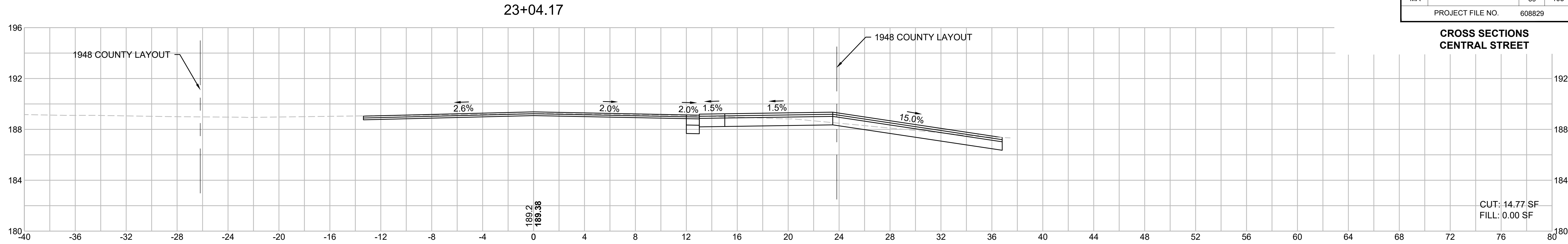
CROSS SECTIONS
CENTRAL STREET



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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	69	105
PROJECT FILE NO.		608829	

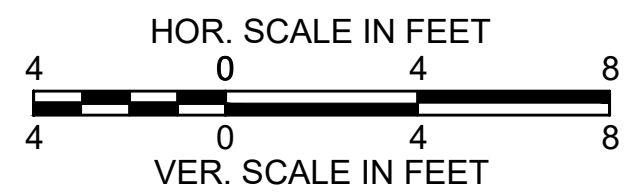
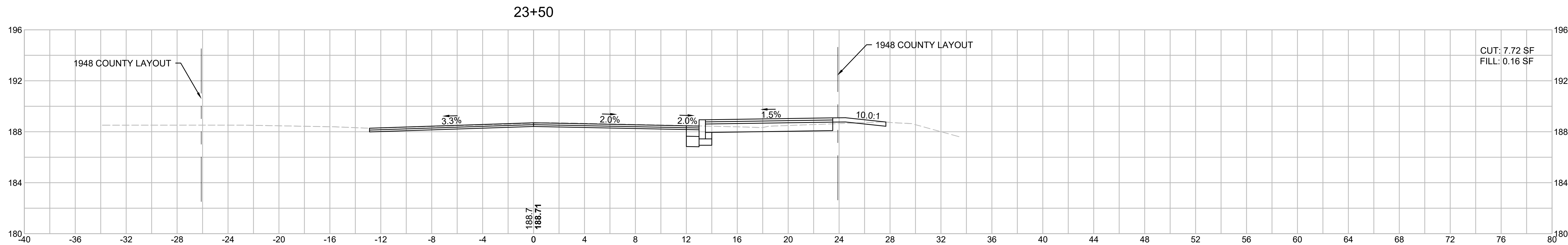
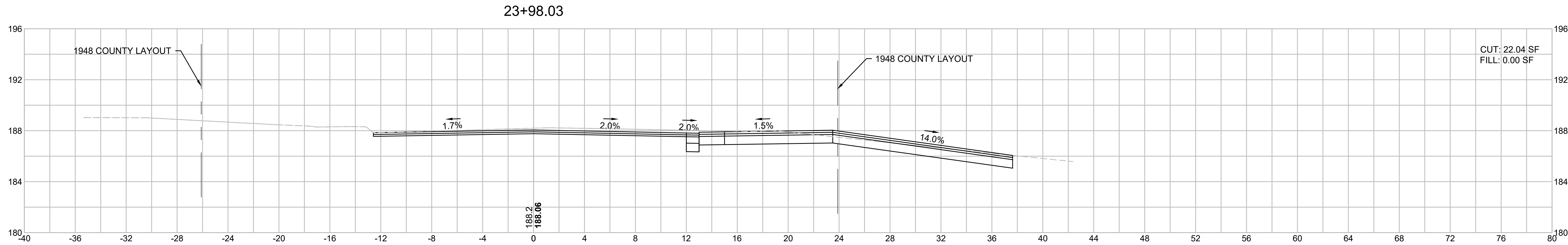
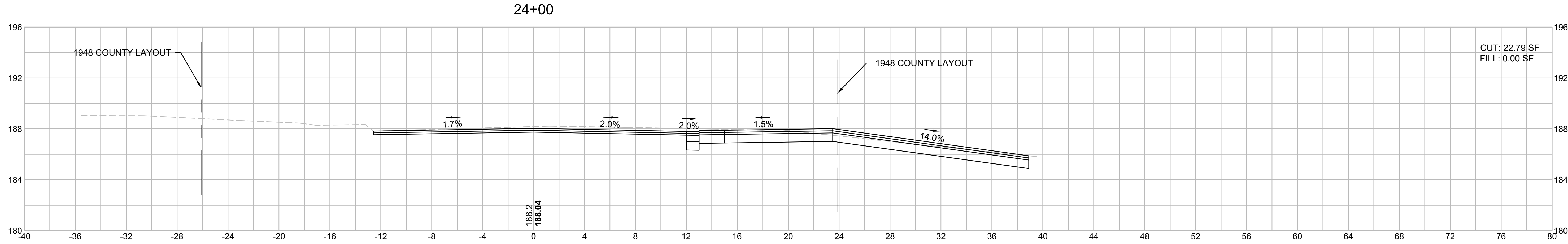
CROSS SECTIONS
CENTRAL STREET



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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	70	105
PROJECT FILE NO.		608829	

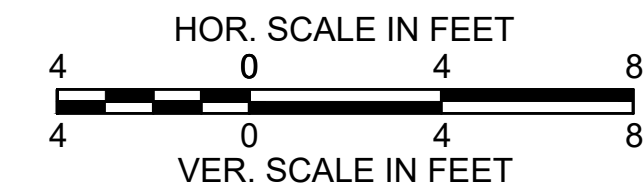
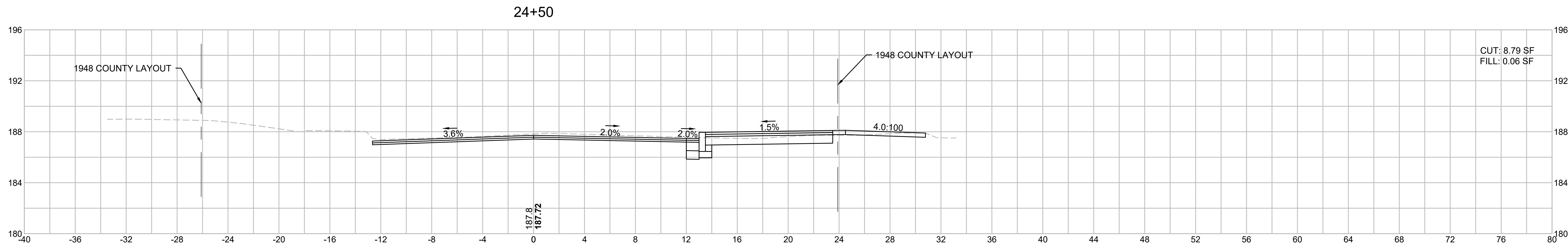
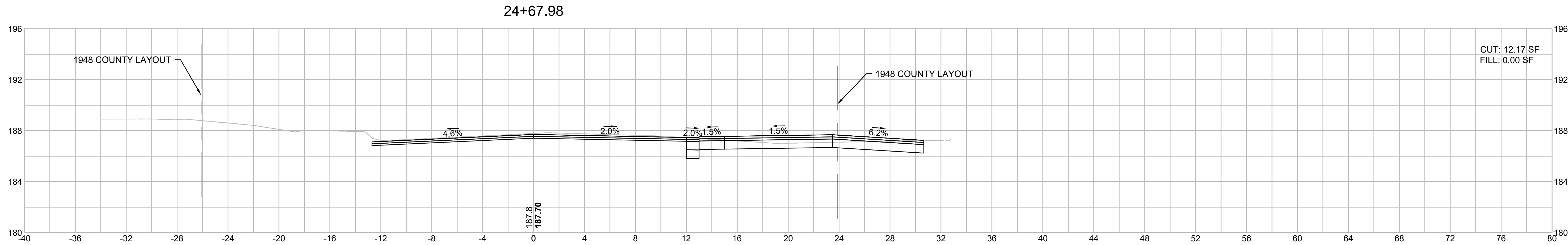
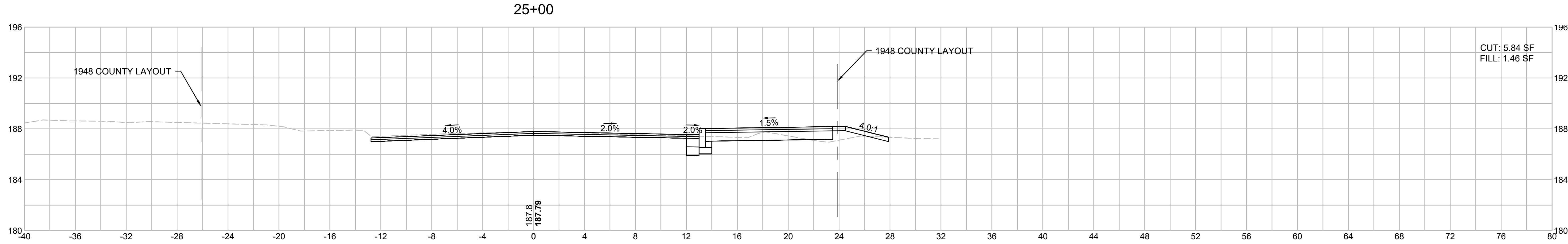
CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:13 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	71	105
PROJECT FILE NO.		608829	

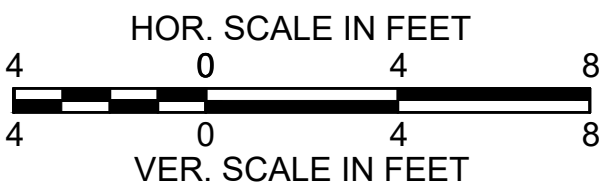
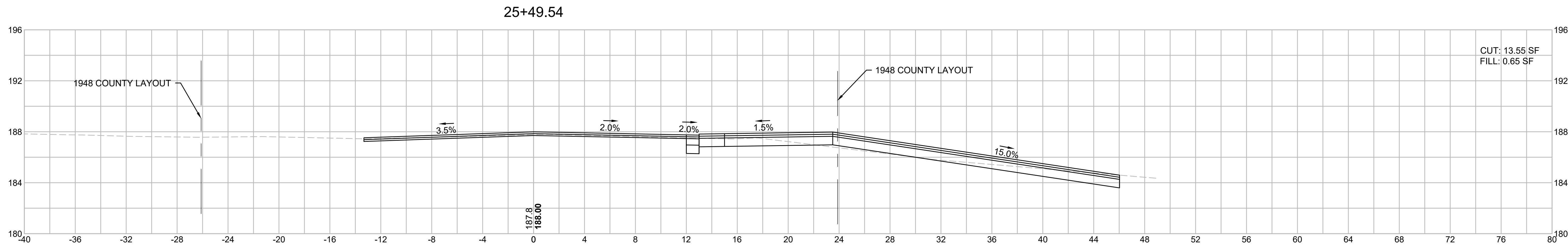
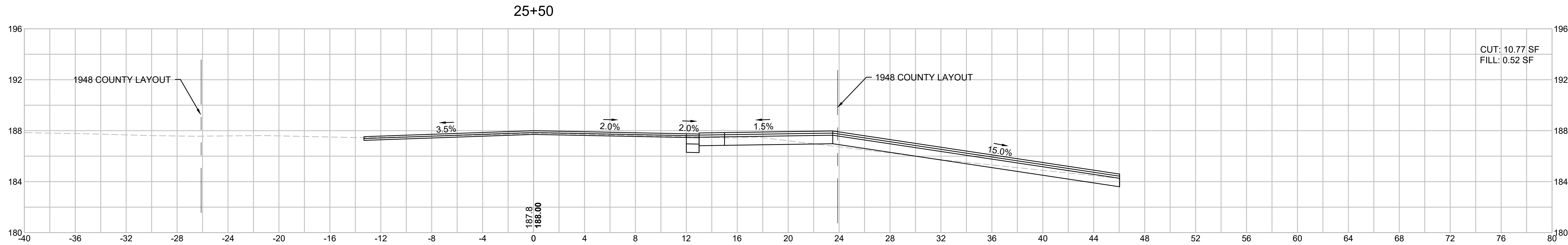
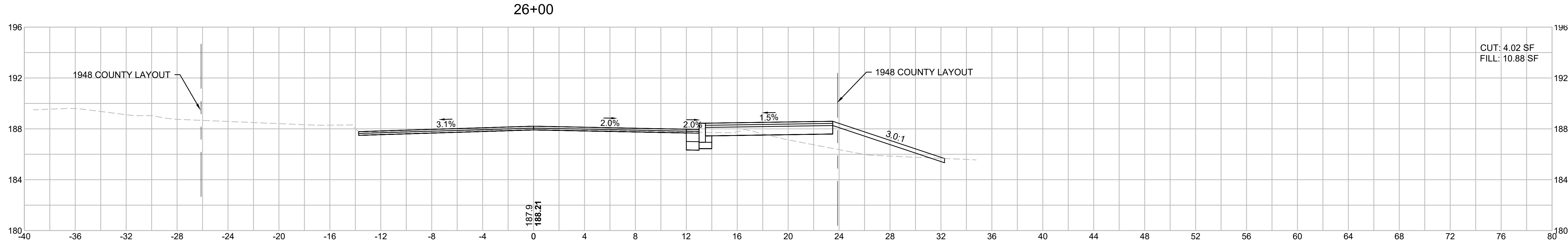
CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:13 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	72	105
PROJECT FILE NO.		608829	

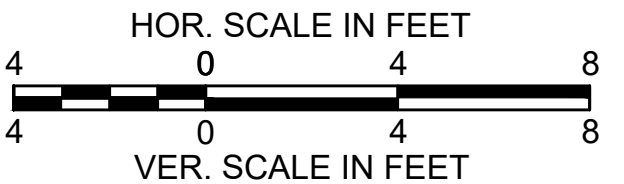
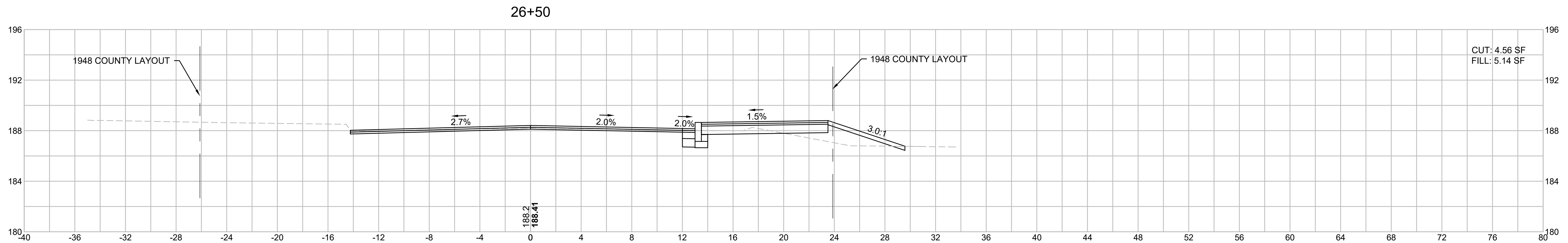
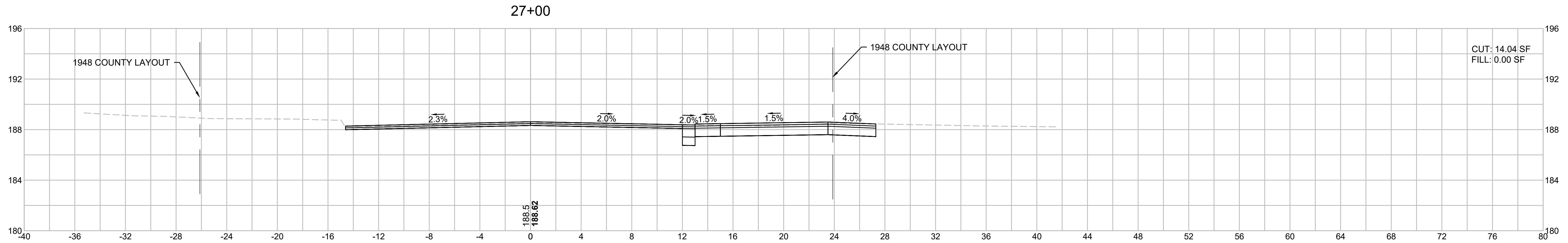
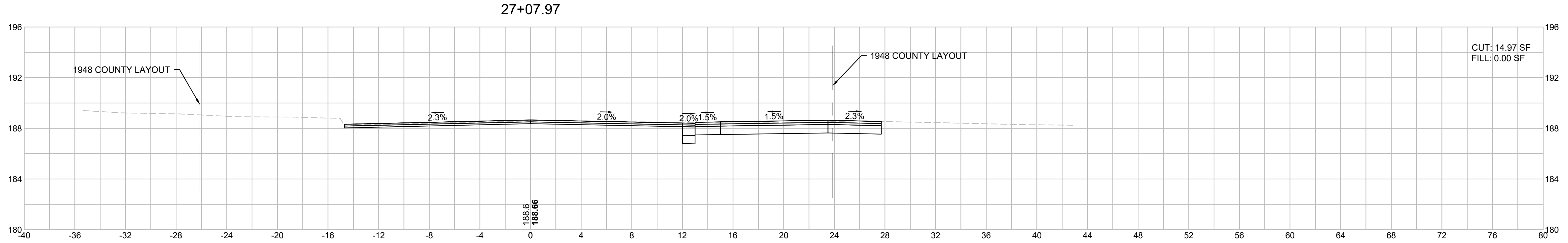
CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:14 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	73	105
PROJECT FILE NO.		608829	

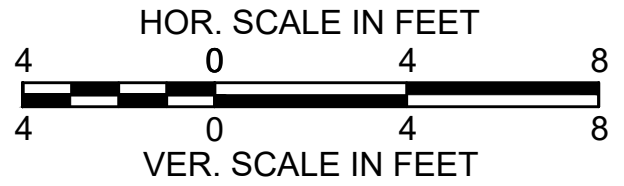
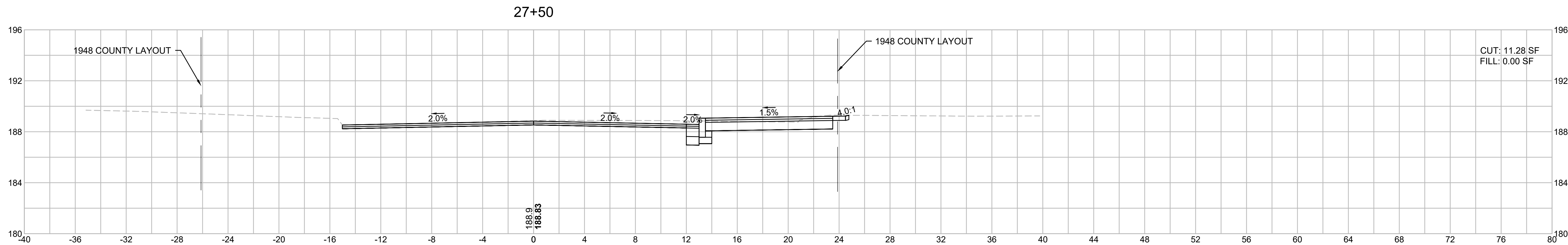
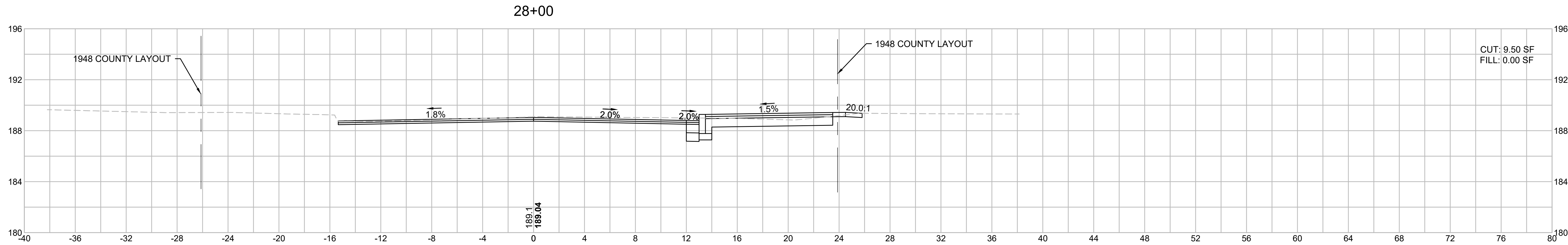
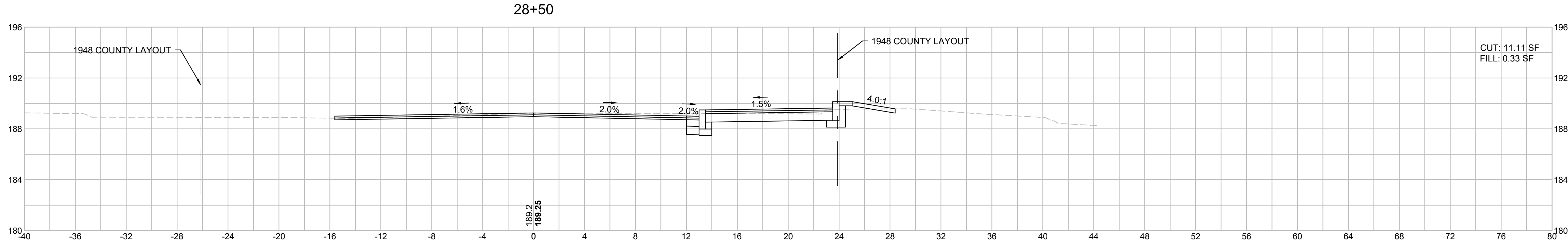
CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:14 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	74	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

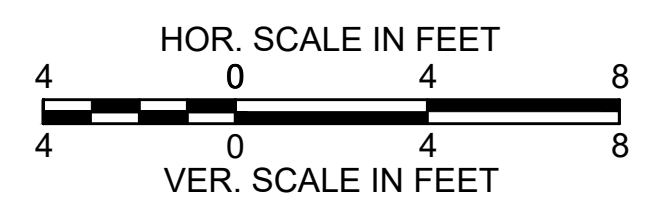
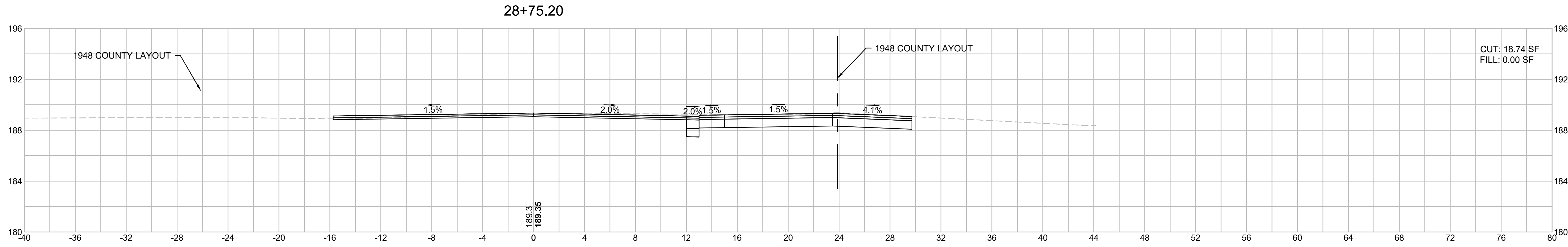
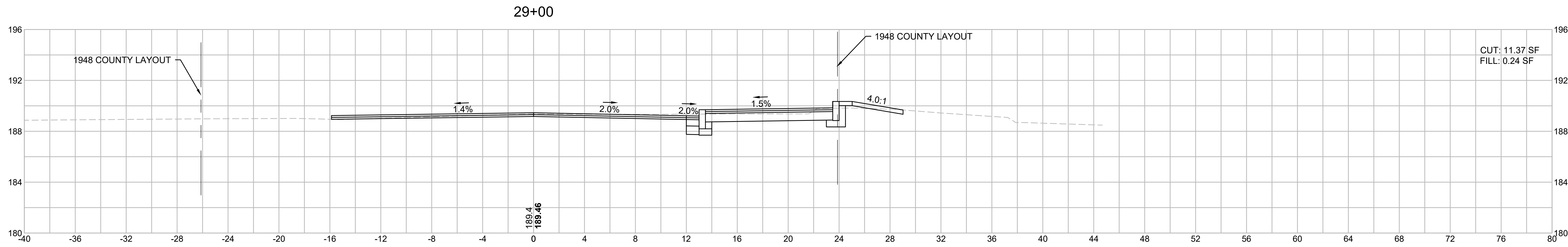
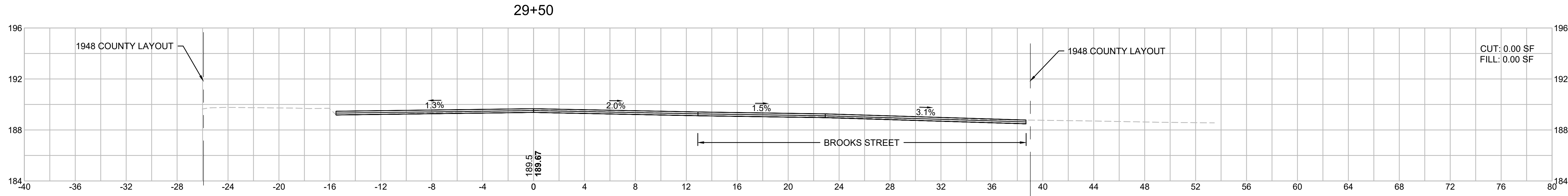


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	75	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

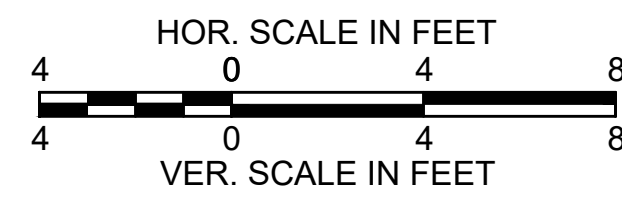
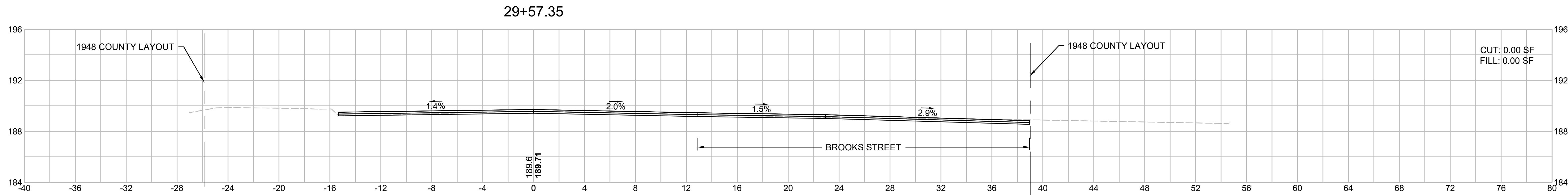
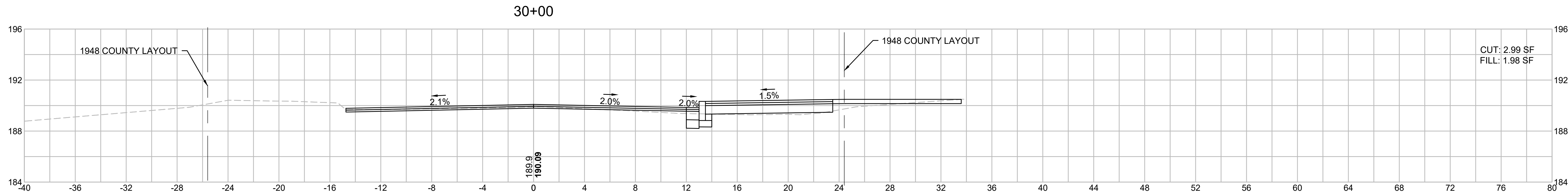
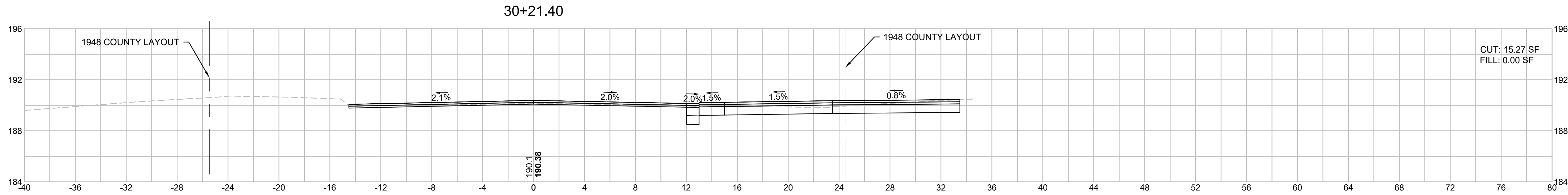


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	76	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

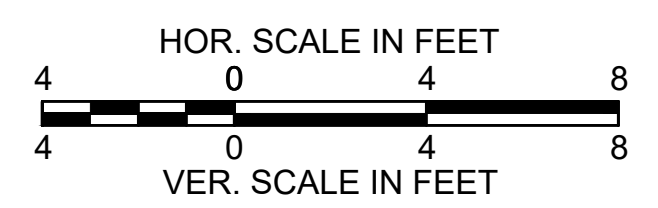
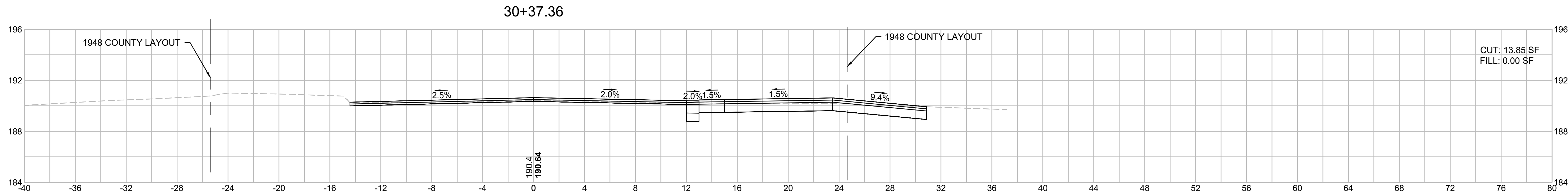
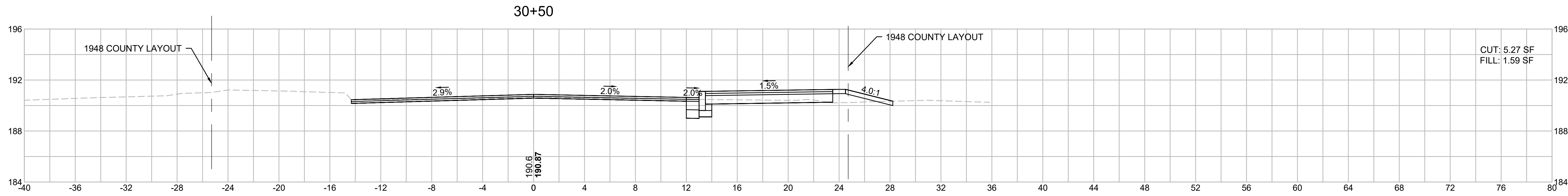
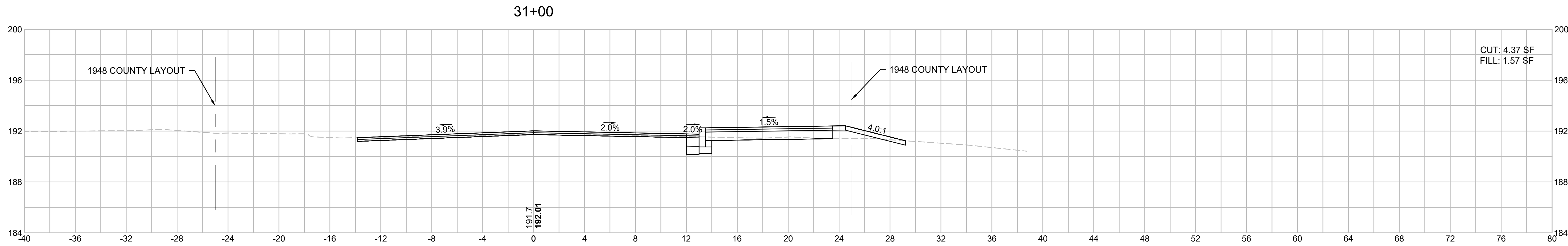


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	77	105
PROJECT FILE NO.		608829	

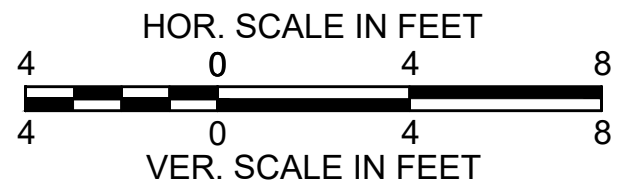
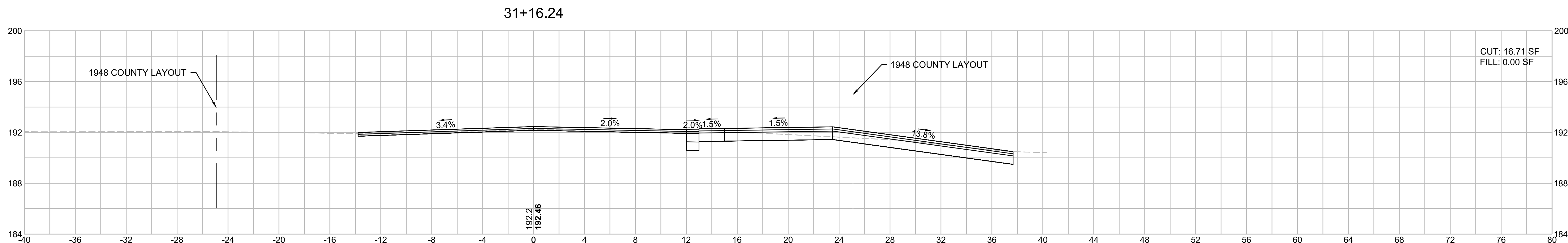
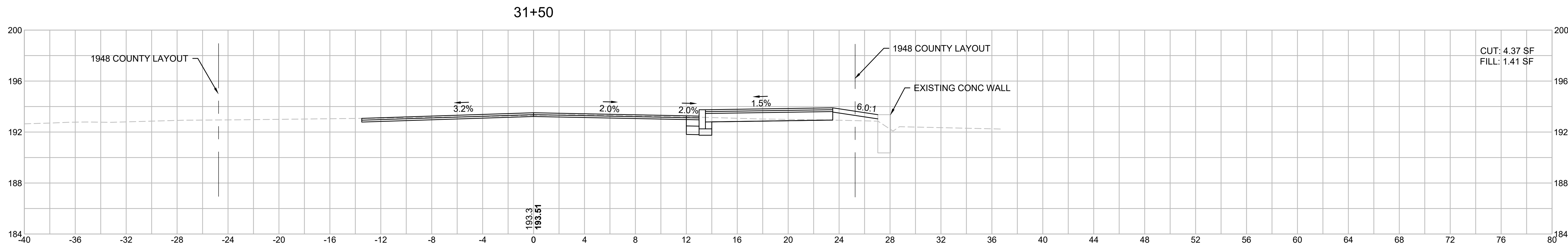
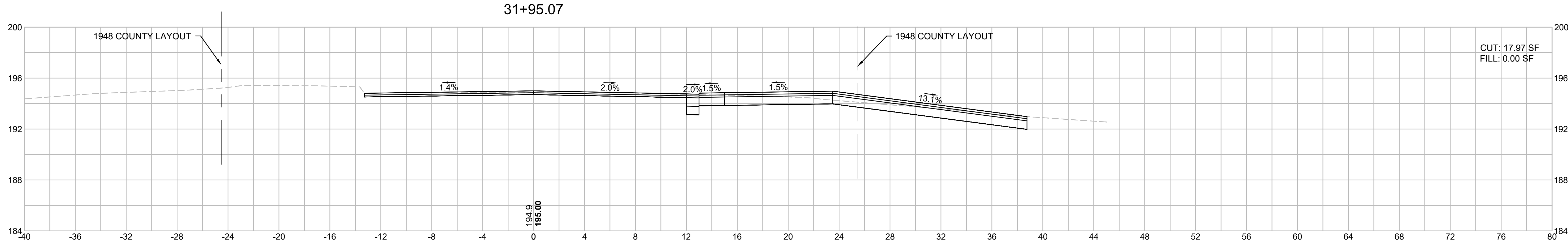
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Nitech - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:14 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	78	105
PROJECT FILE NO.		608829	

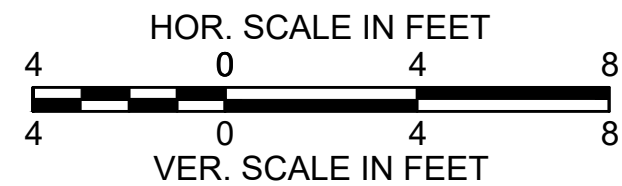
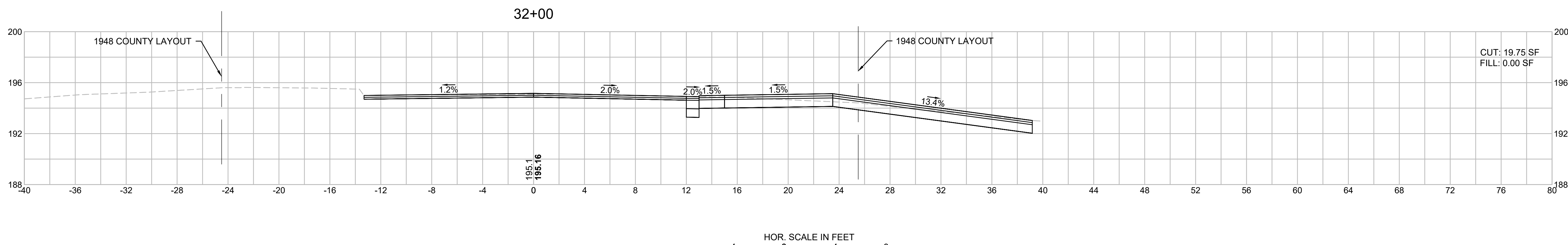
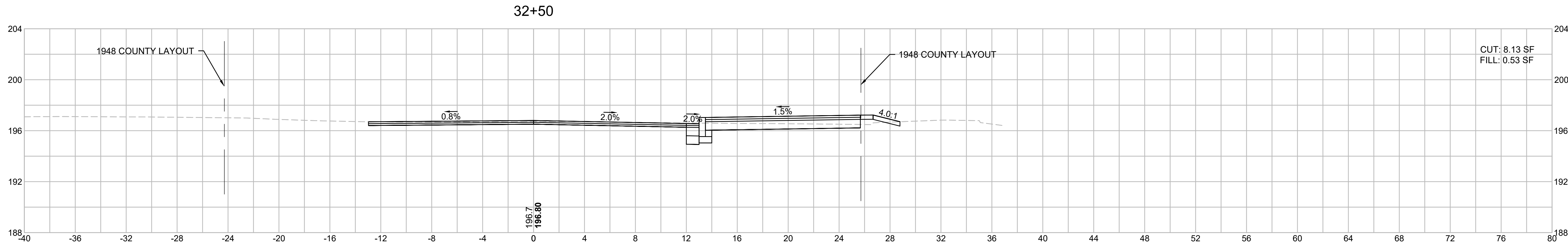
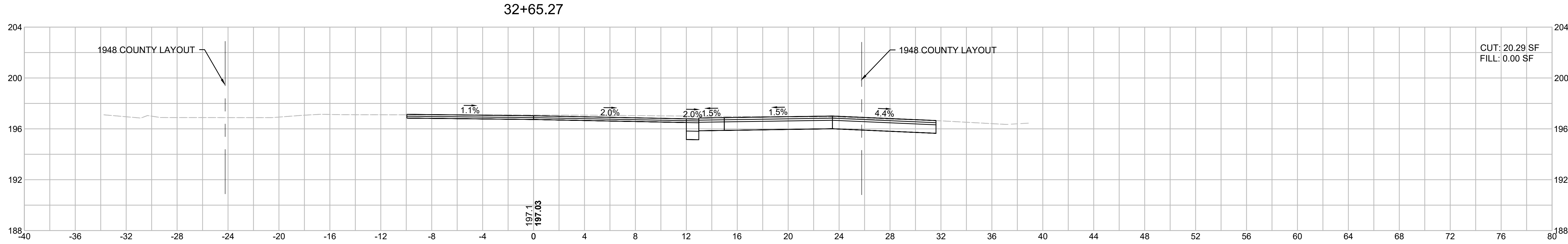
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CENTRAL STREET



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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	79	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

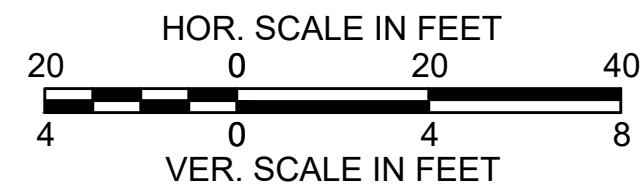
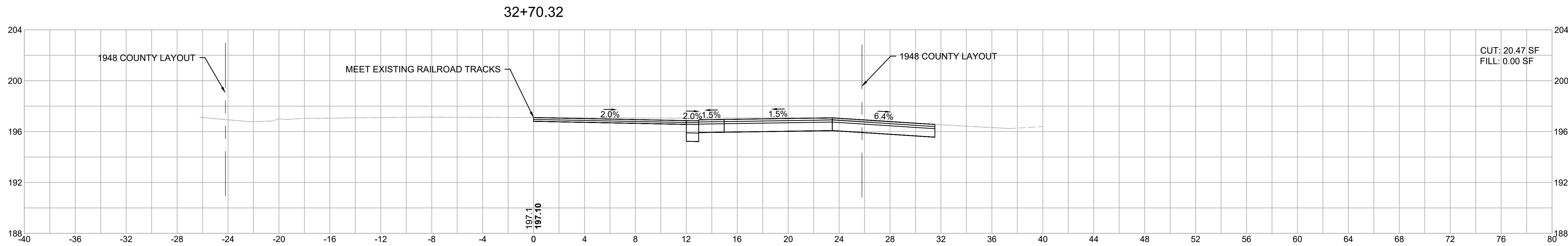
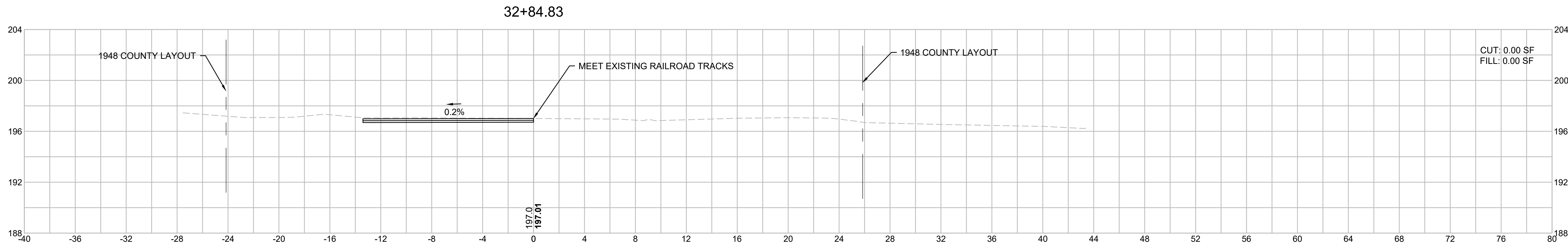
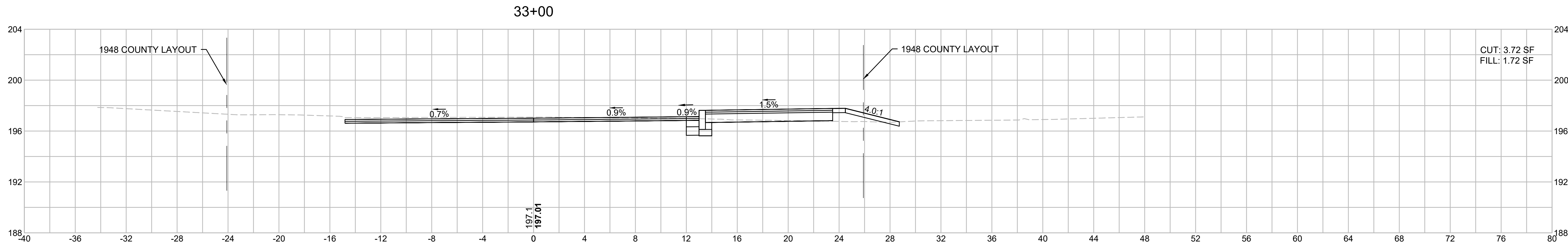


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	80	105
PROJECT FILE NO. 608829			

CROSS SECTIONS
CENTRAL STREET

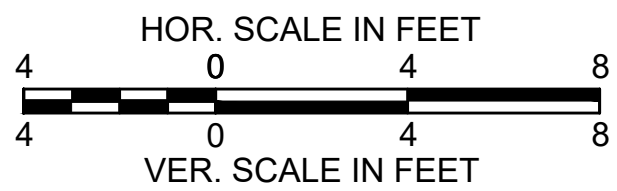
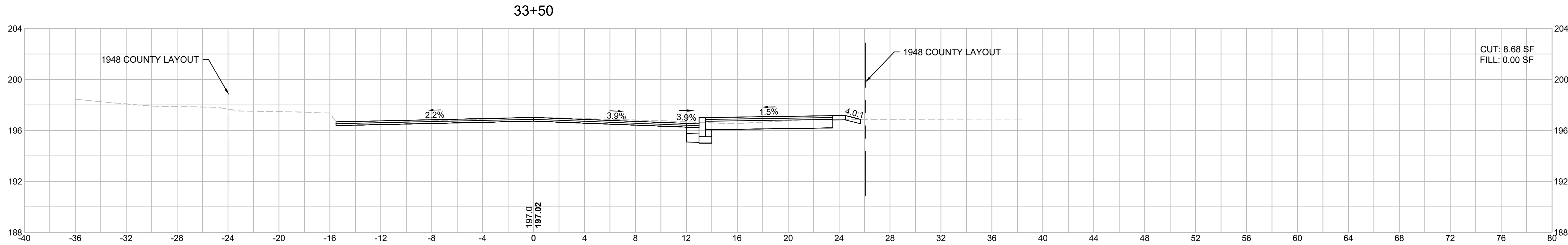
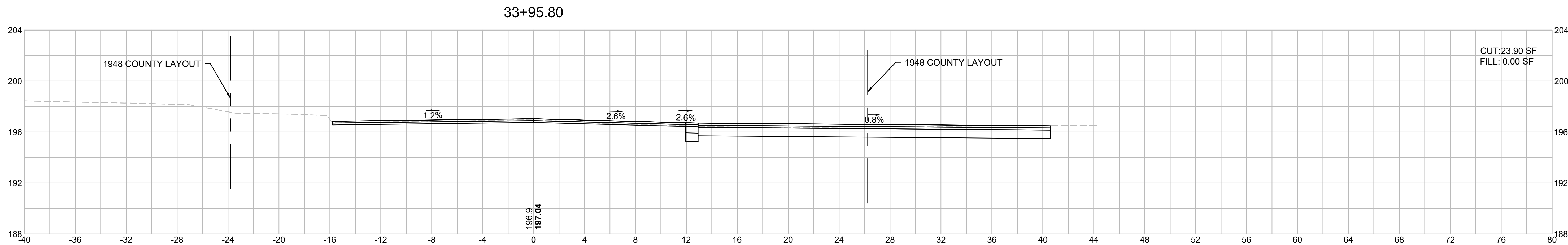
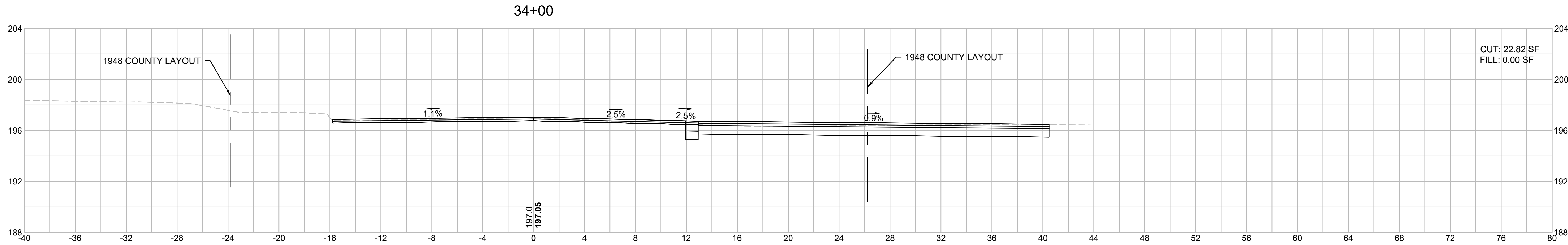


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	81	105
PROJECT FILE NO.		608829	

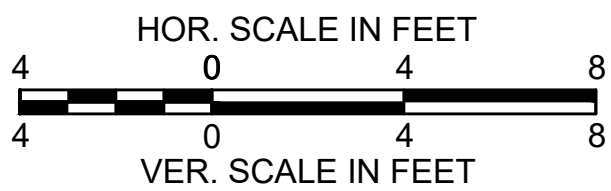
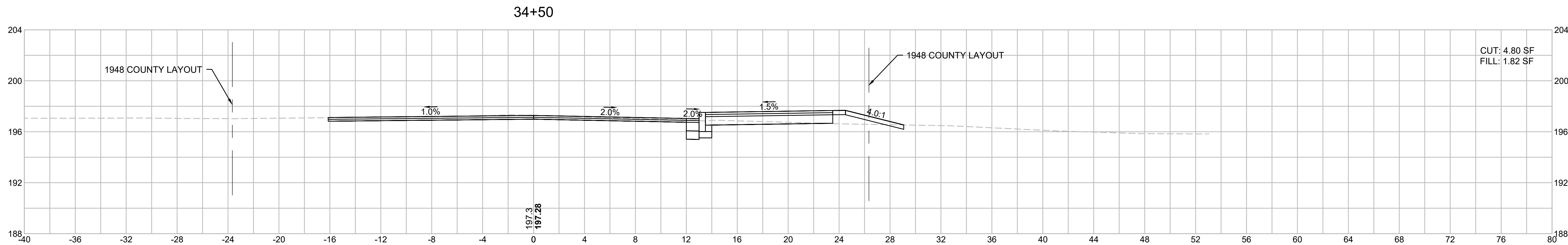
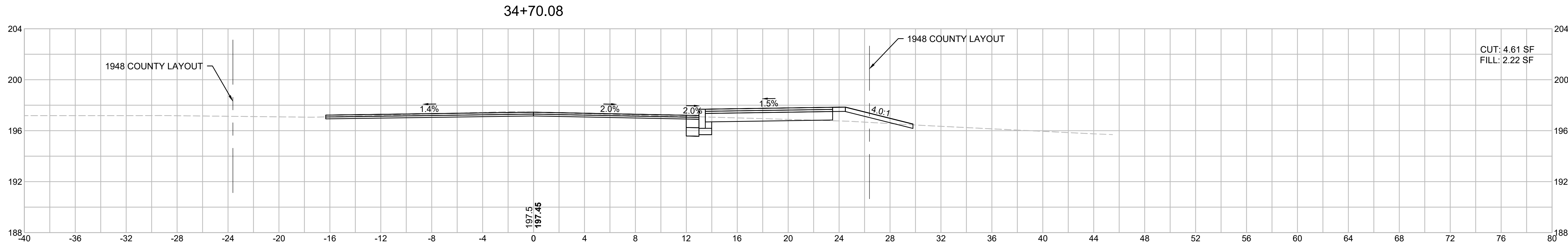
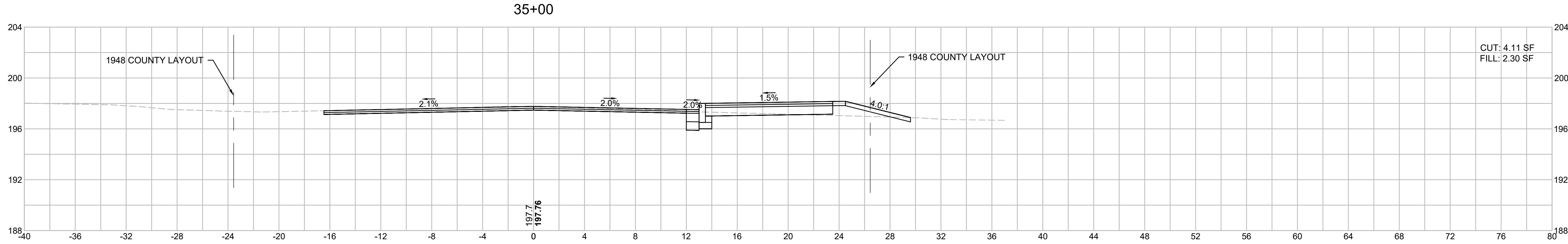
CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:15 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	82	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

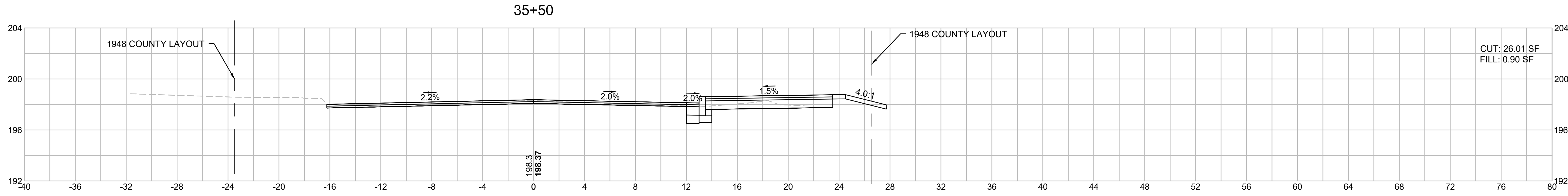
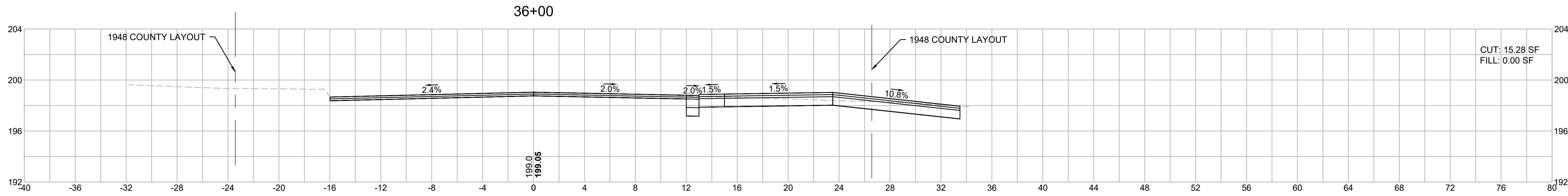
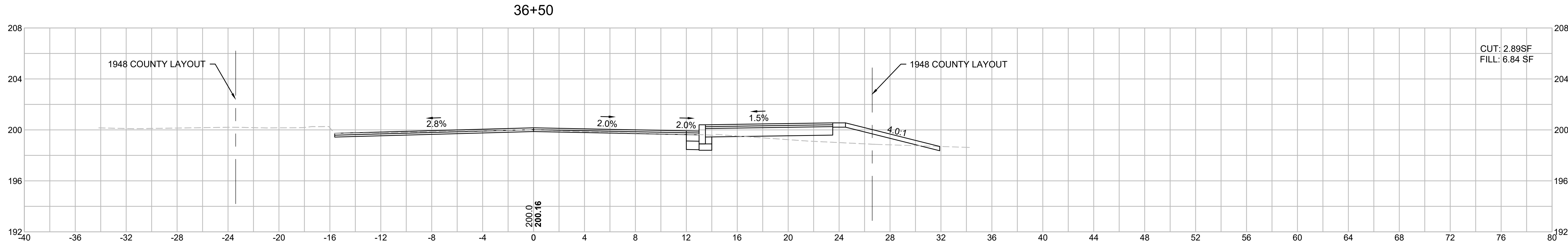


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	83	105
PROJECT FILE NO.		608829	

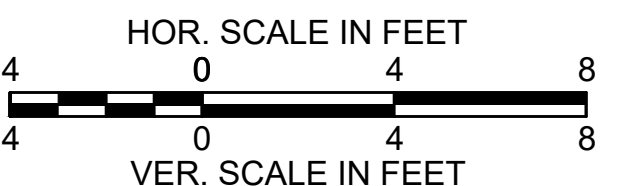
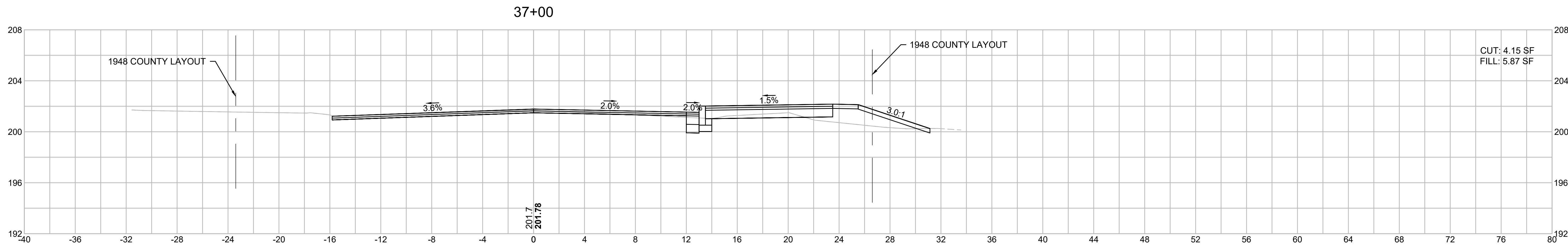
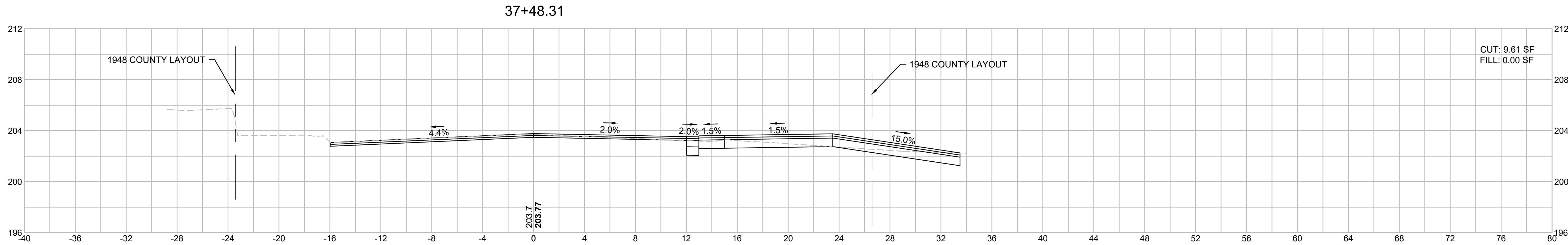
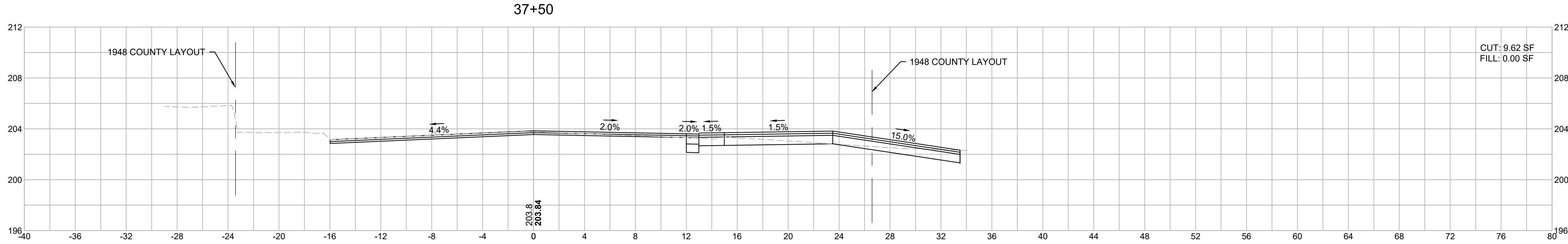
CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:15 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	84	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

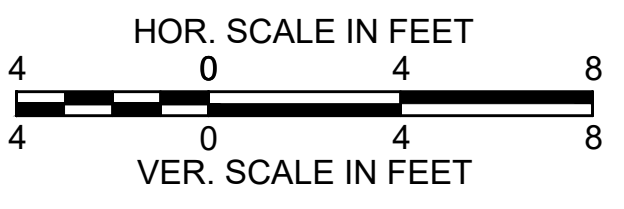
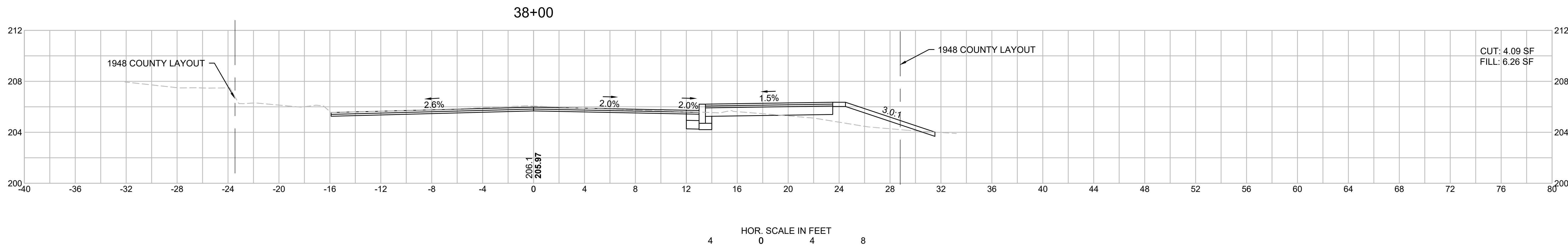
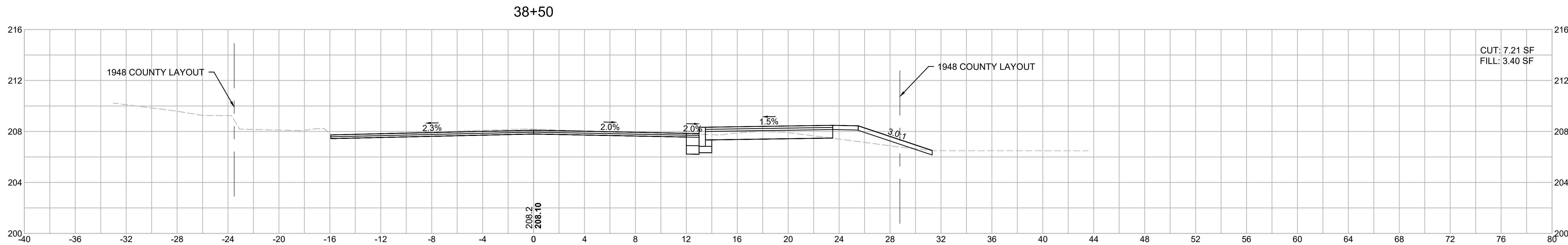
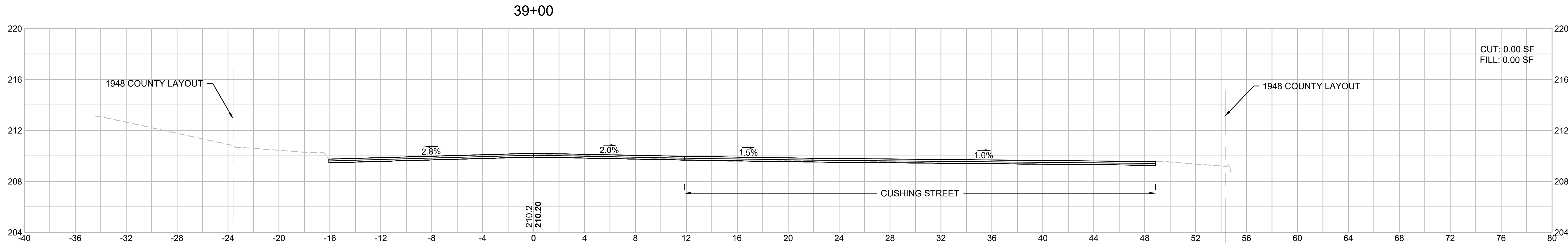


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	85	105
PROJECT FILE NO.		608829	

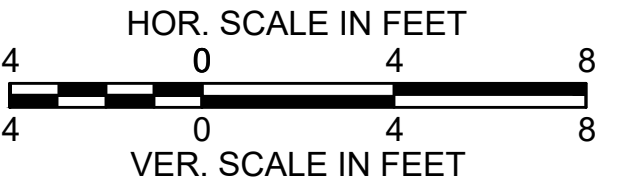
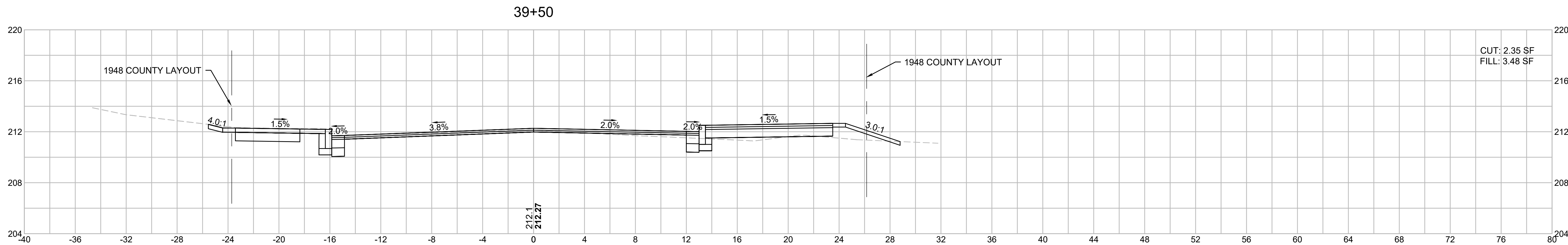
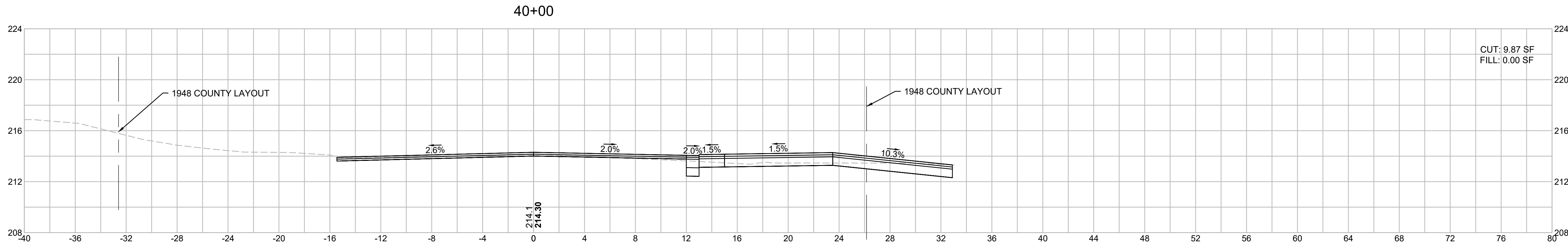
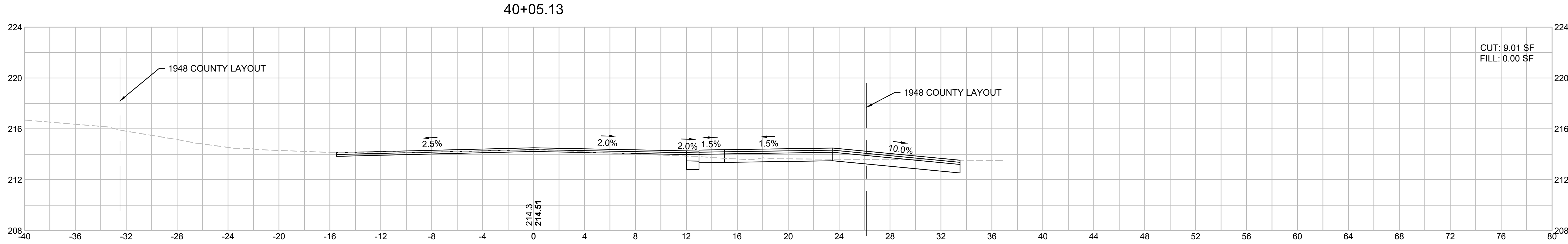
CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:15 PM

STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	86	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

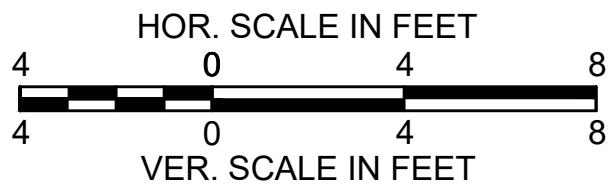
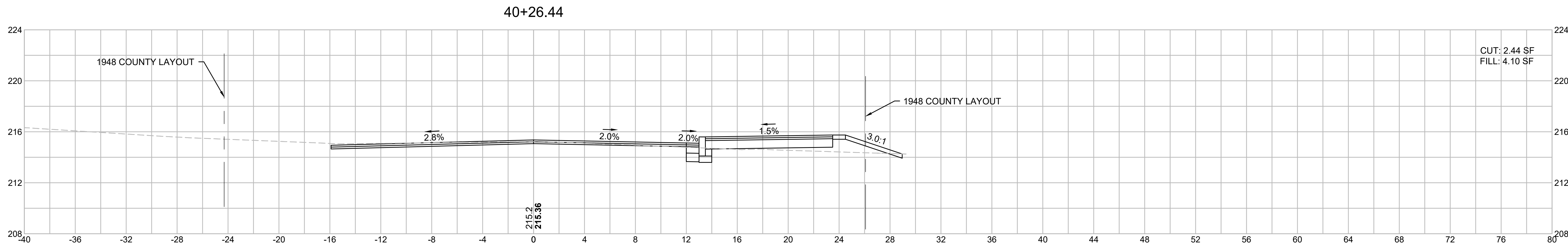
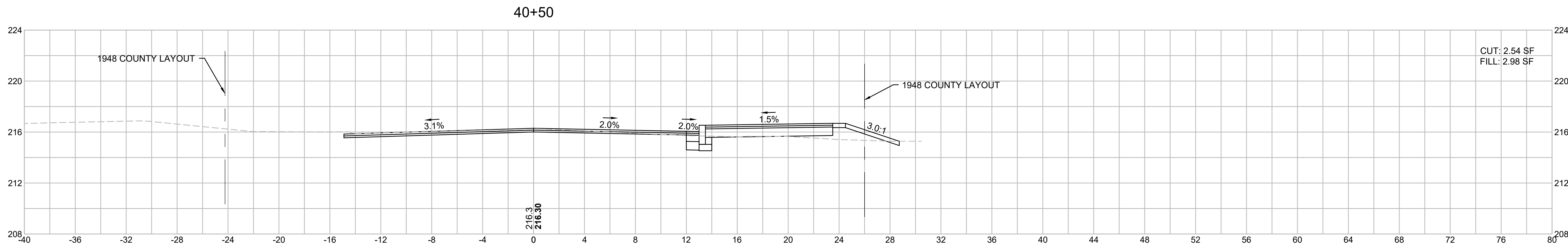
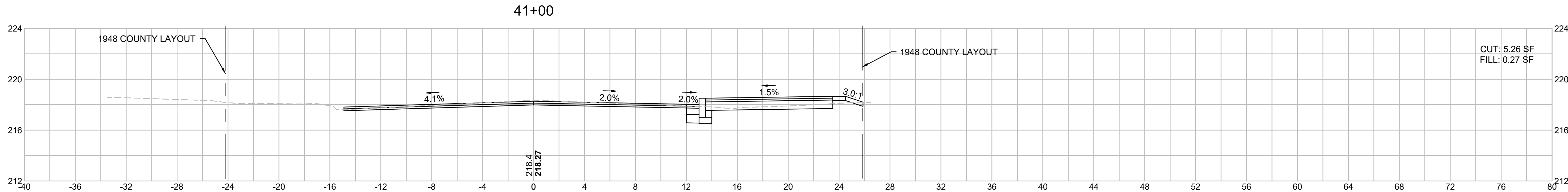


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	87	105
PROJECT FILE NO. 608829			

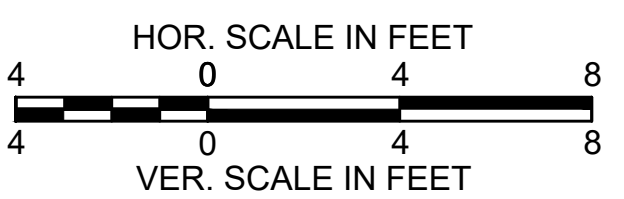
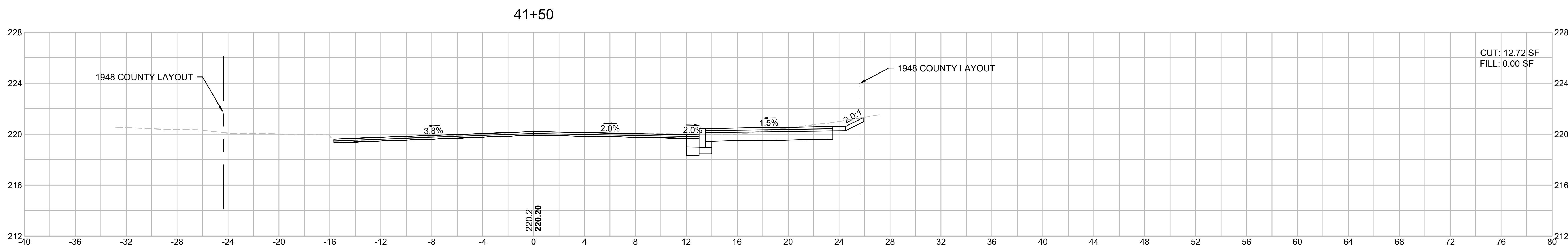
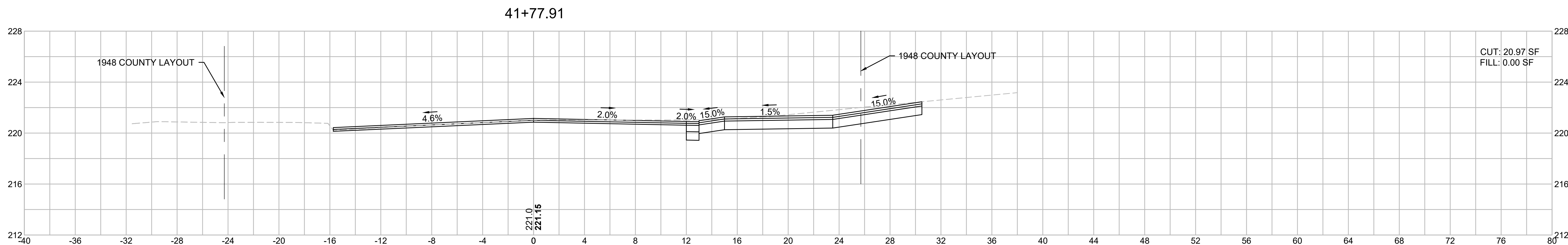
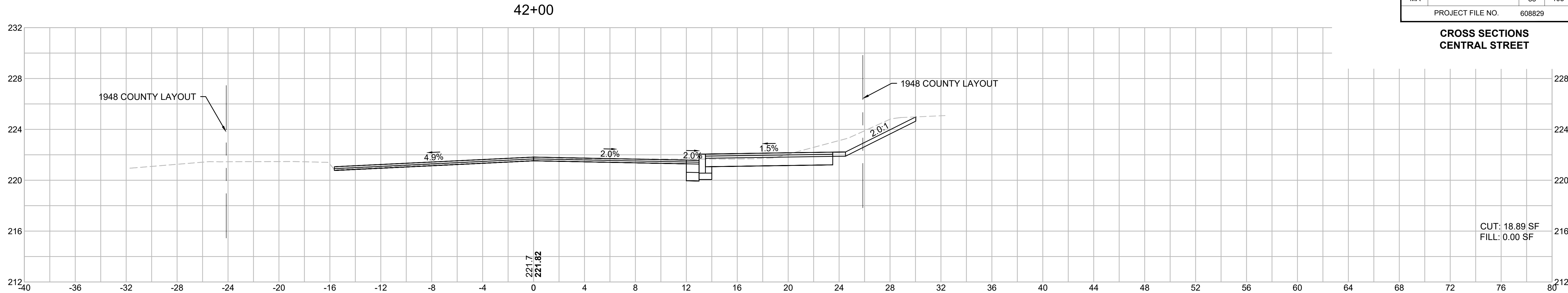
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CENTRAL STREET



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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	88	105
PROJECT FILE NO.		608829	

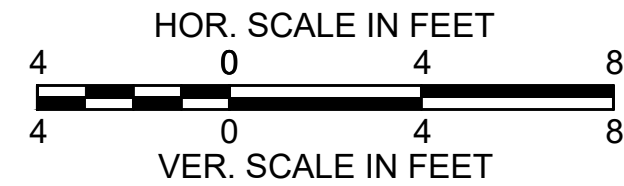
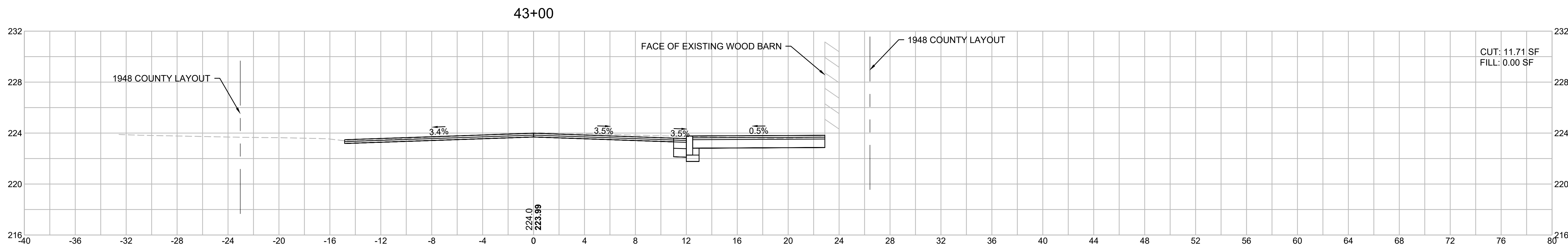
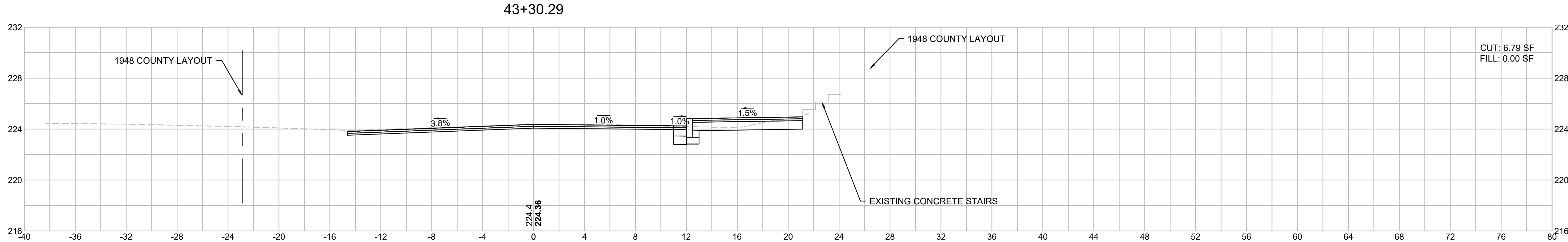
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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	89	105
PROJECT FILE NO.		608829	

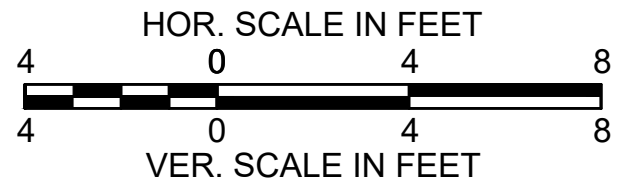
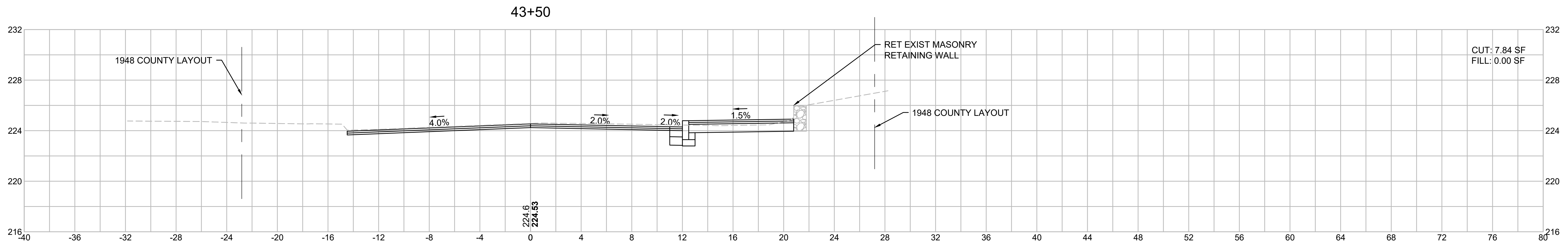
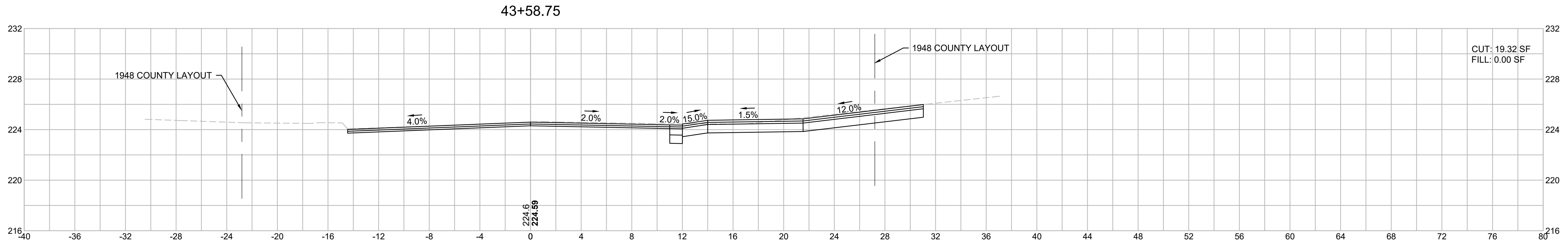
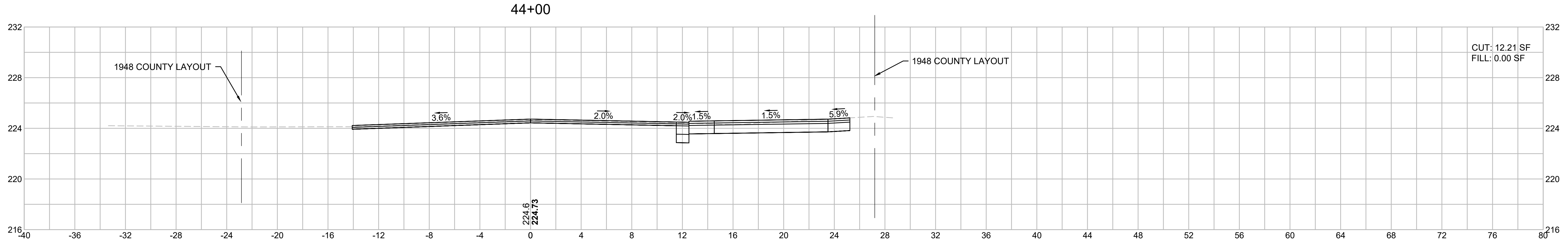
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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	90	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

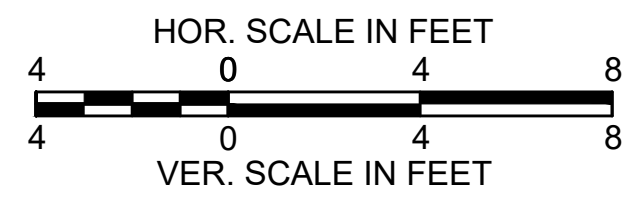
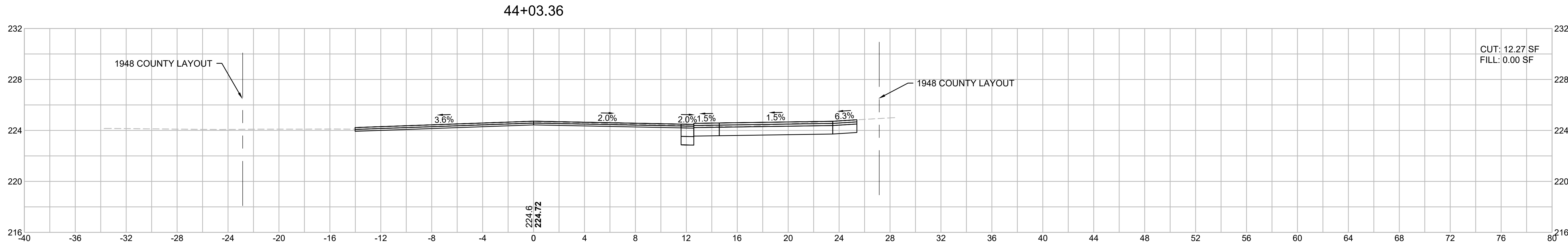
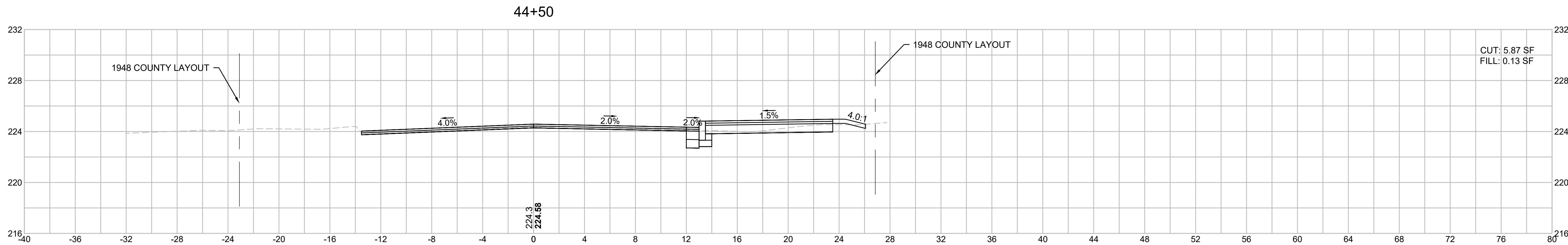
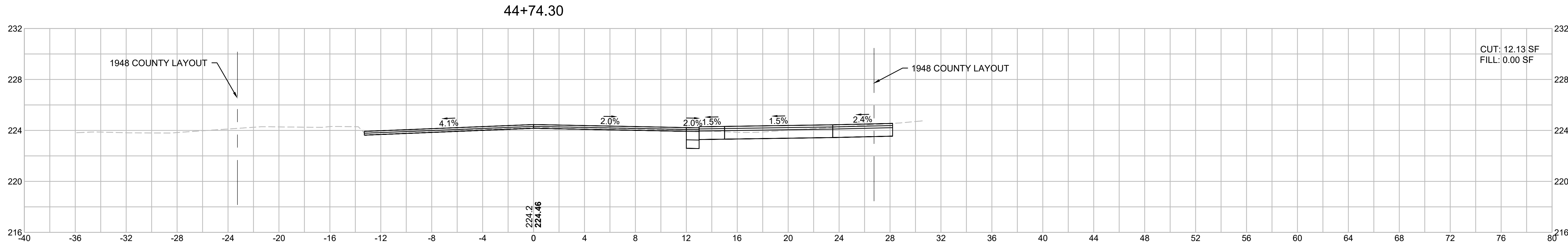


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	91	105
PROJECT FILE NO.		608829	

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CENTRAL STREET

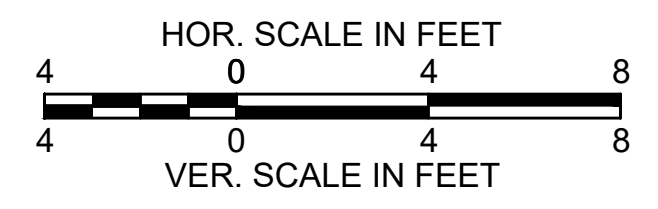
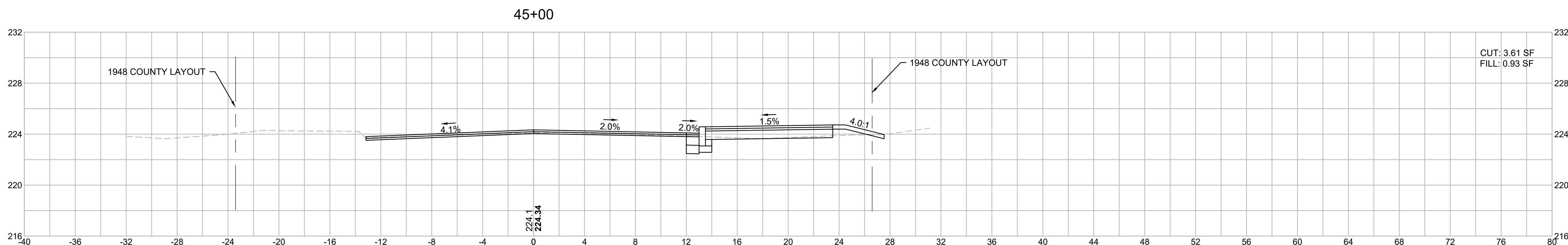
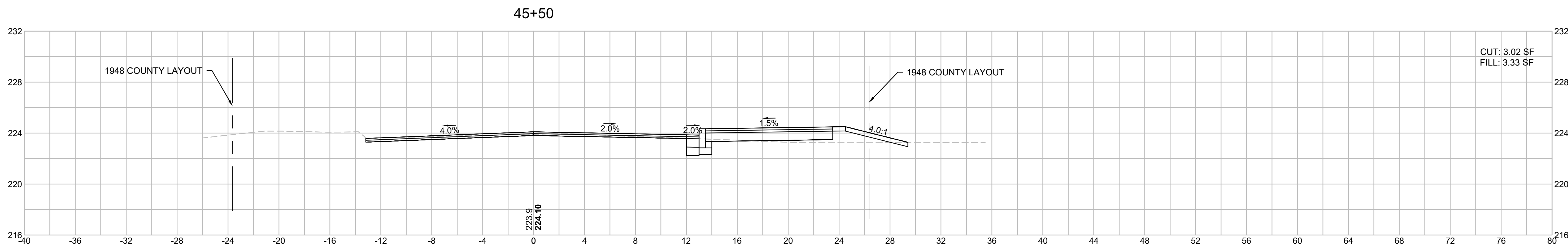
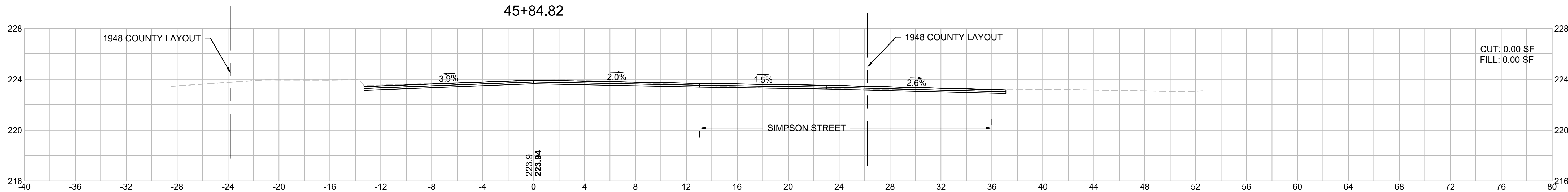


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	92	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

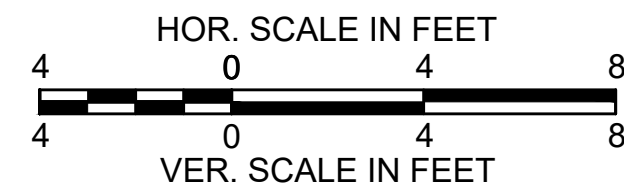
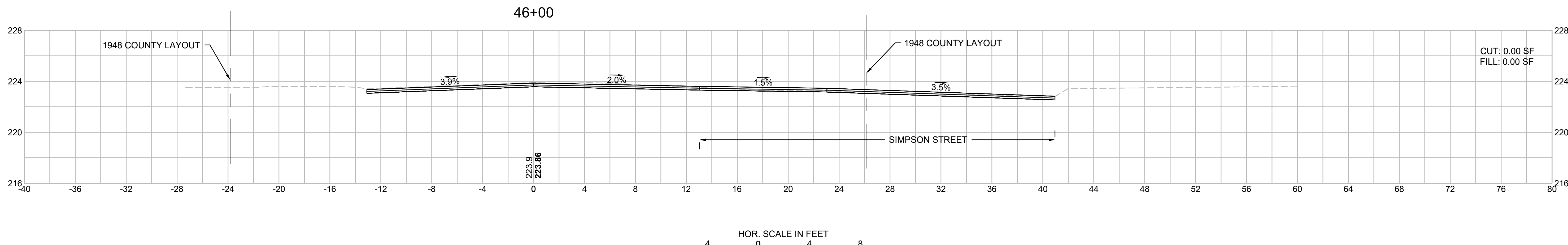
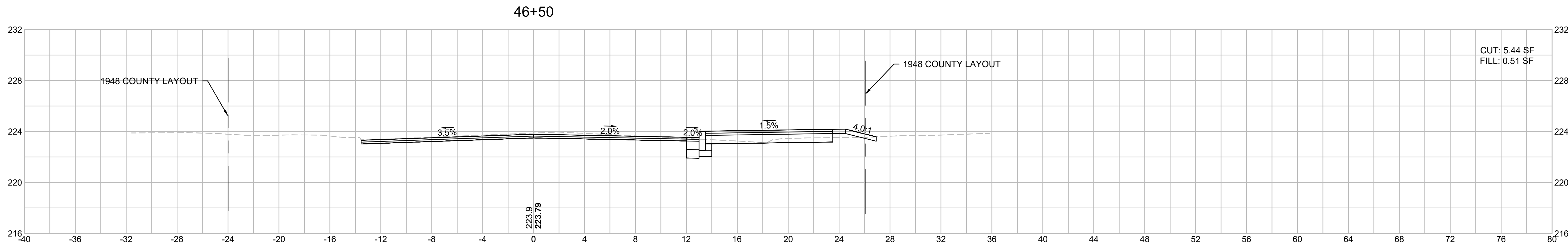


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	93	105
PROJECT FILE NO. 608829			

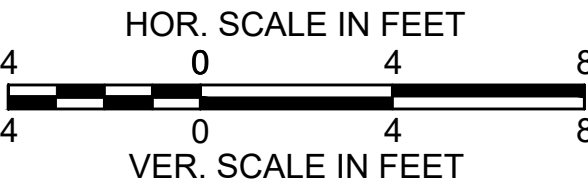
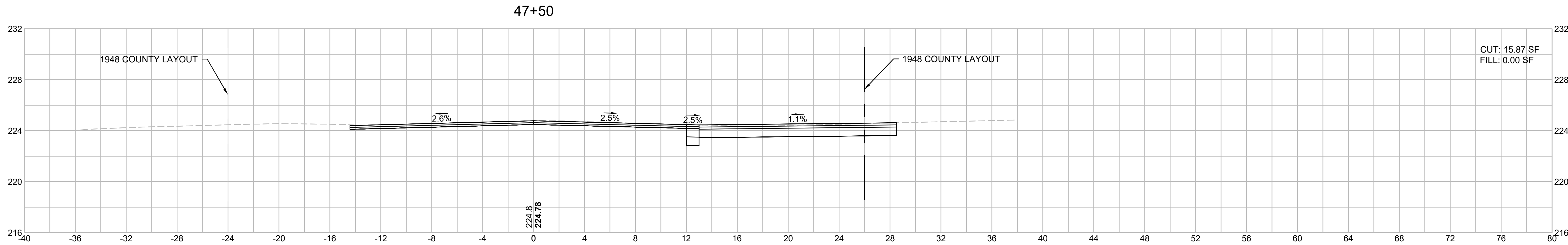
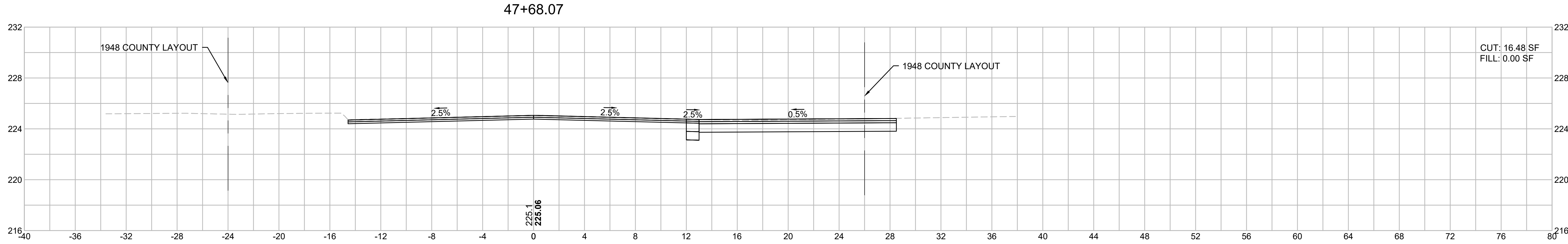
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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	94	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

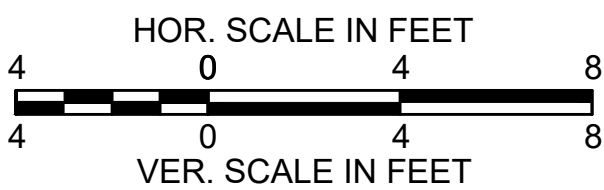
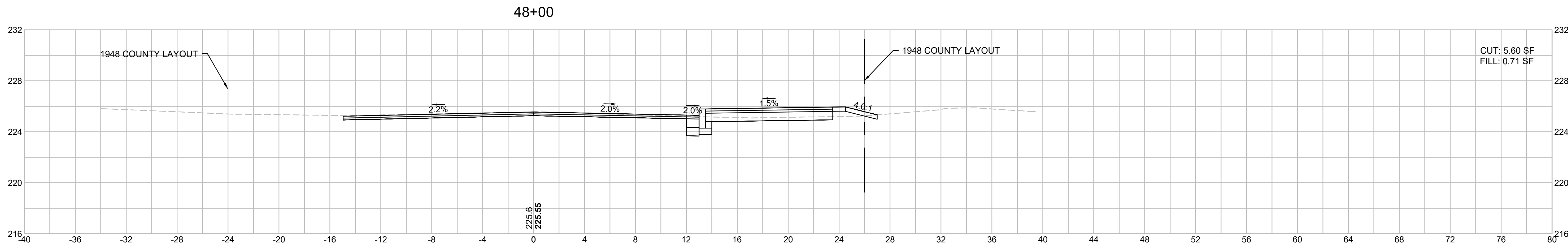
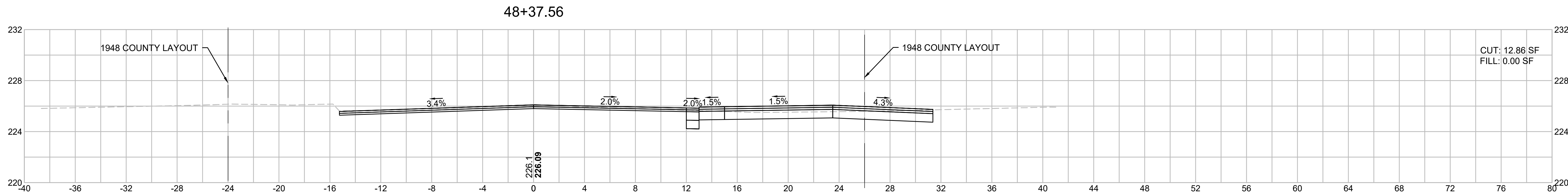
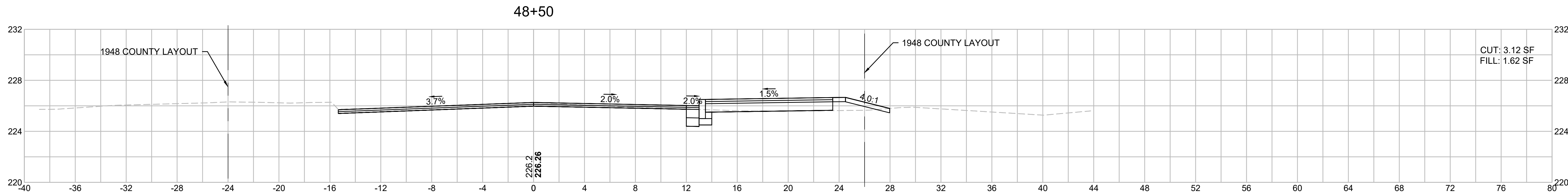


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	95	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

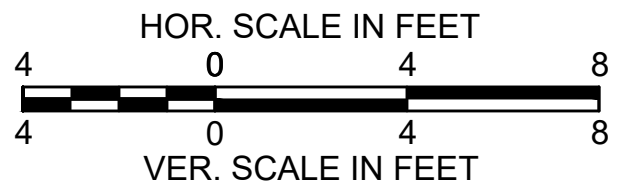
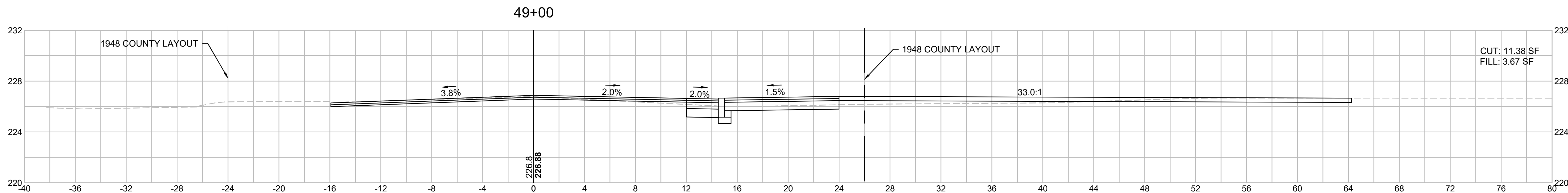
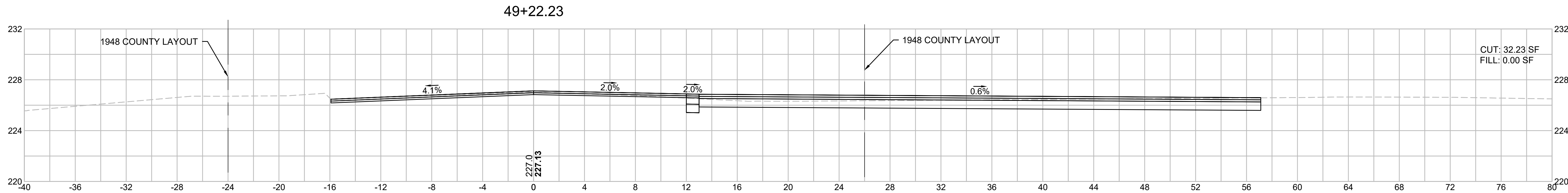
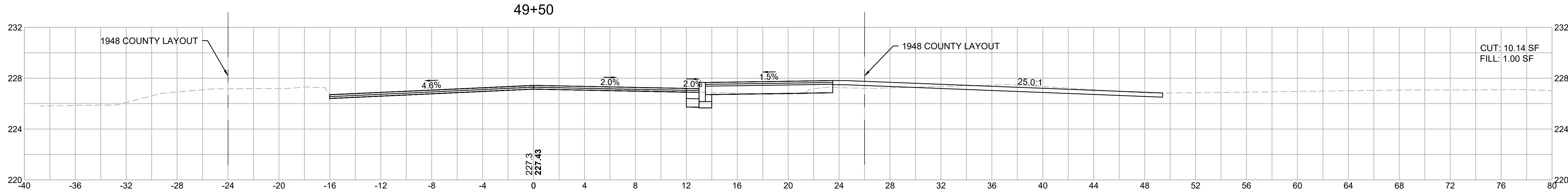


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

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MA	-	96	105
PROJECT FILE NO.		608829	

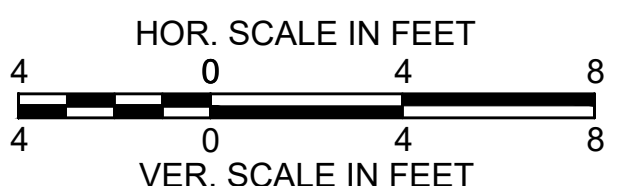
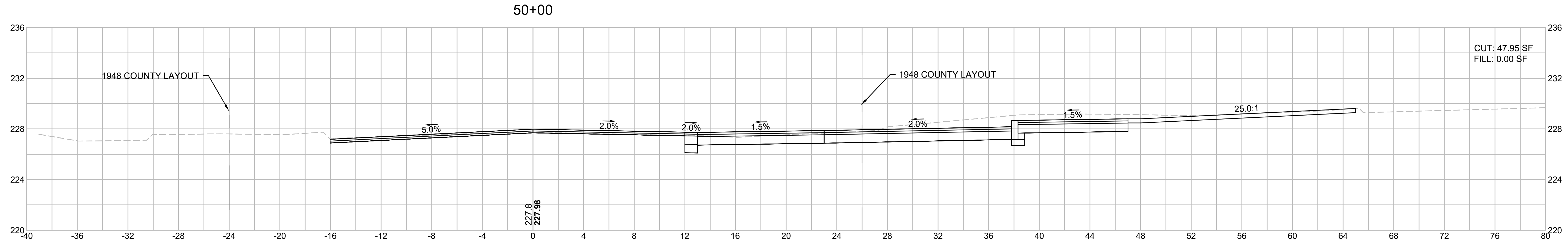
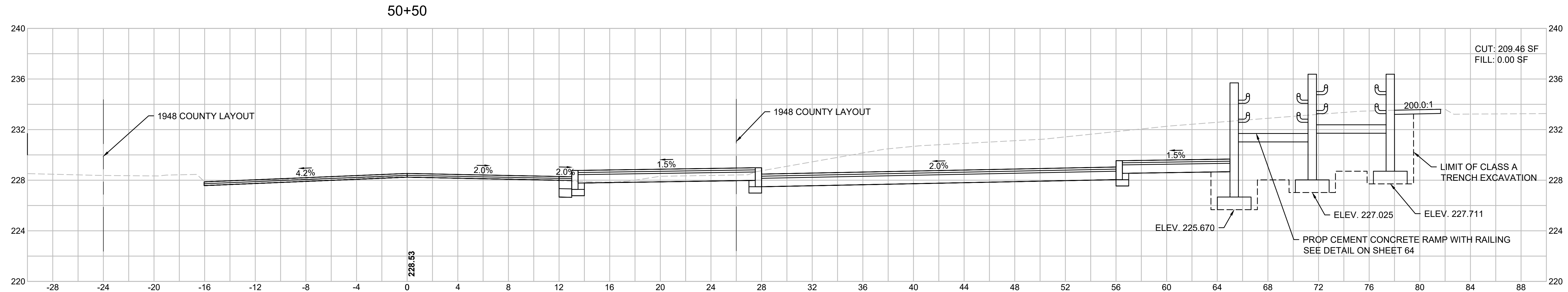
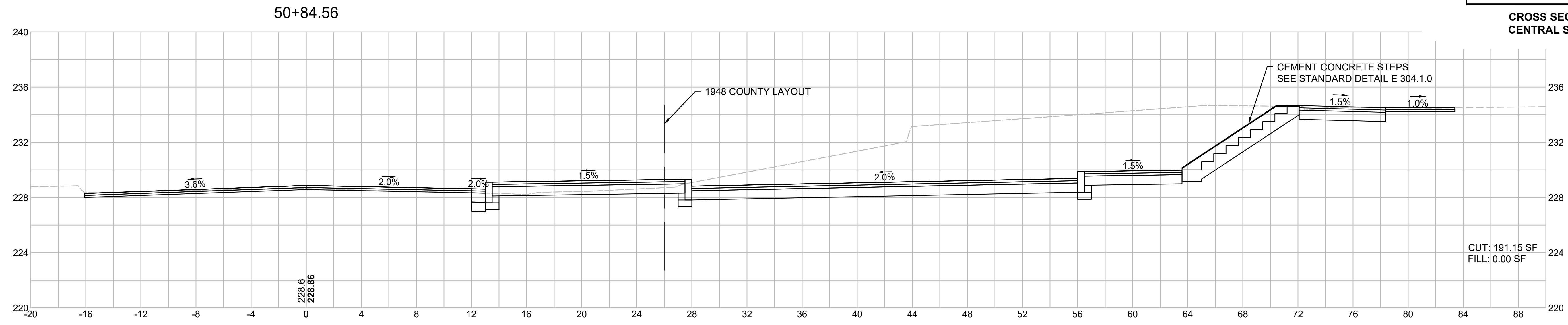
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CENTRAL STREET



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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	97	105
PROJECT FILE NO.		608829	

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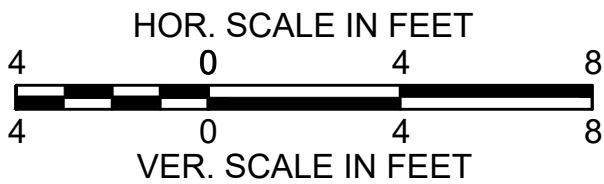
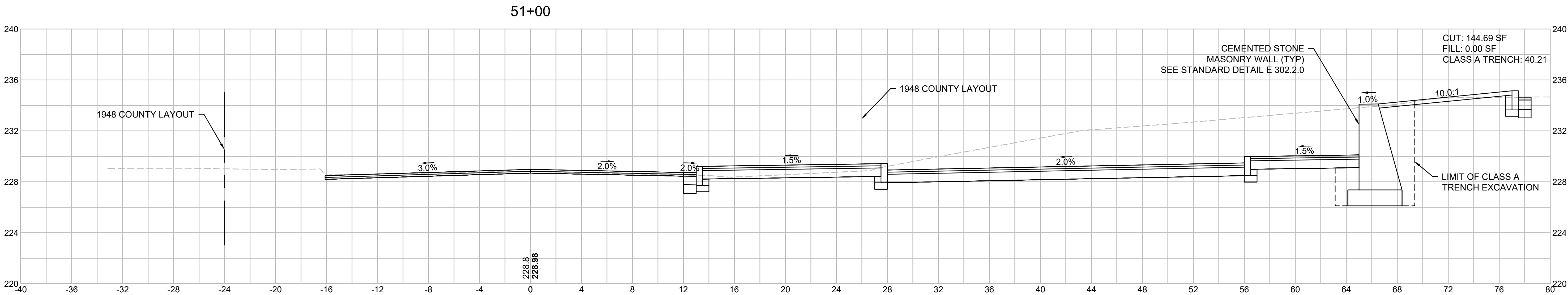
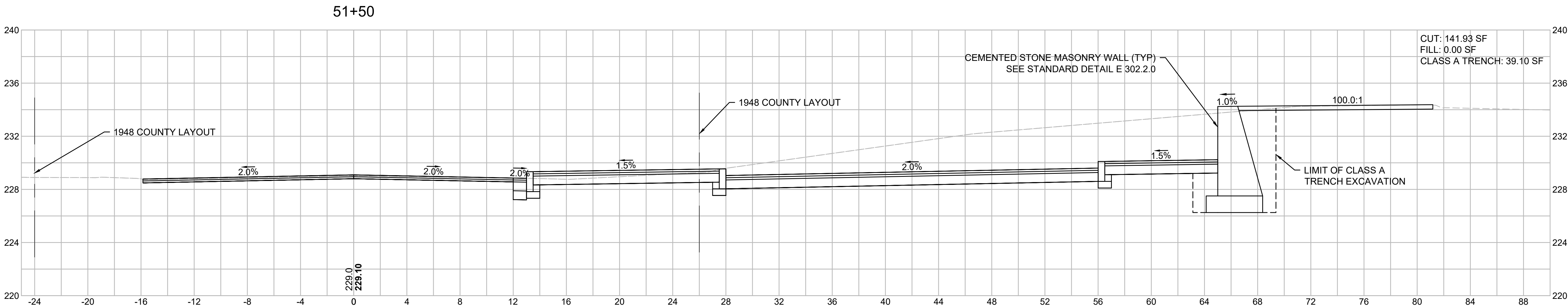


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	98	105
PROJECT FILE NO.		608829	

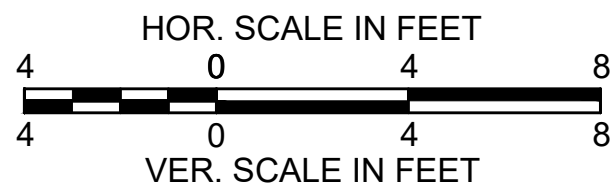
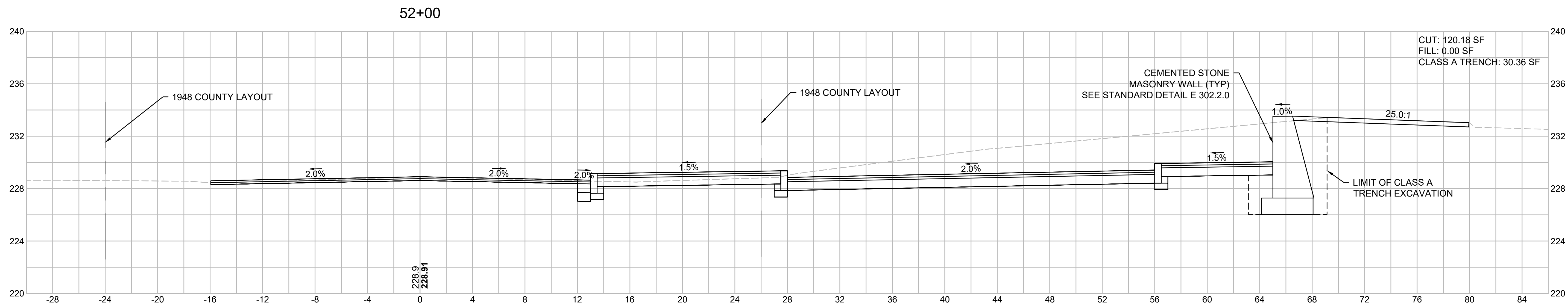
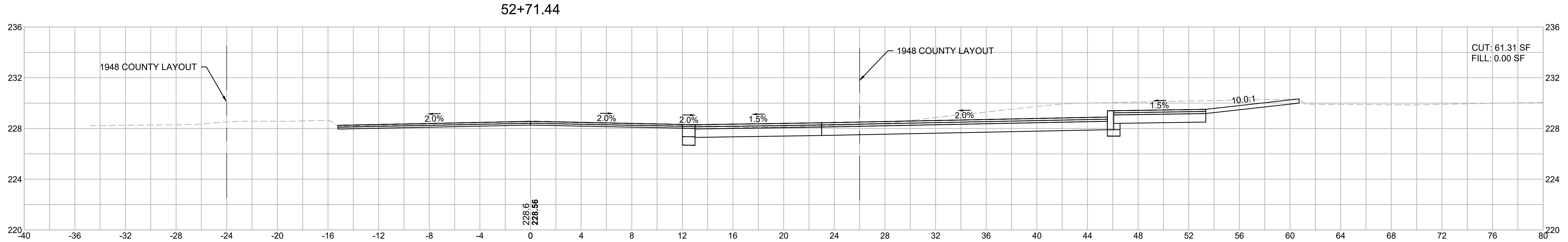
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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
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PROJECT FILE NO.		608829	

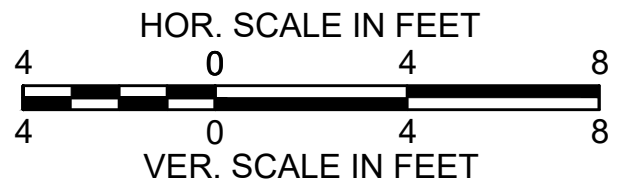
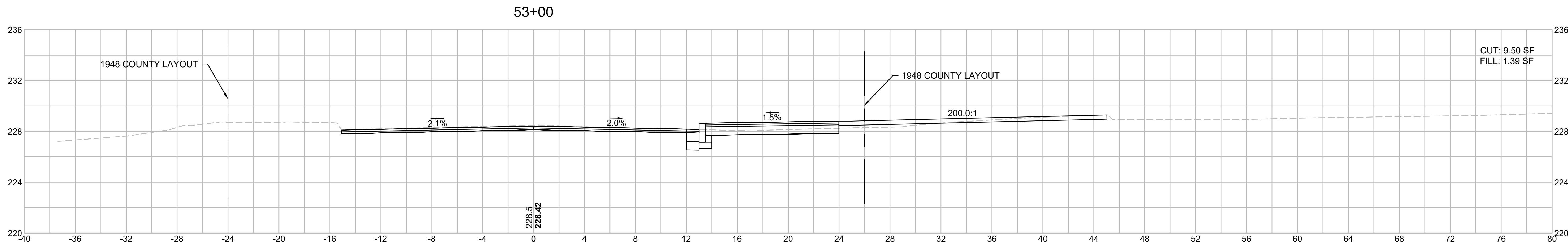
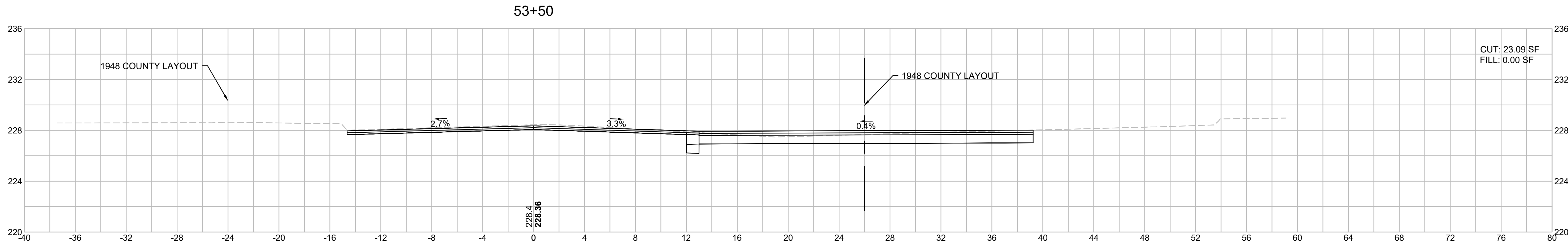
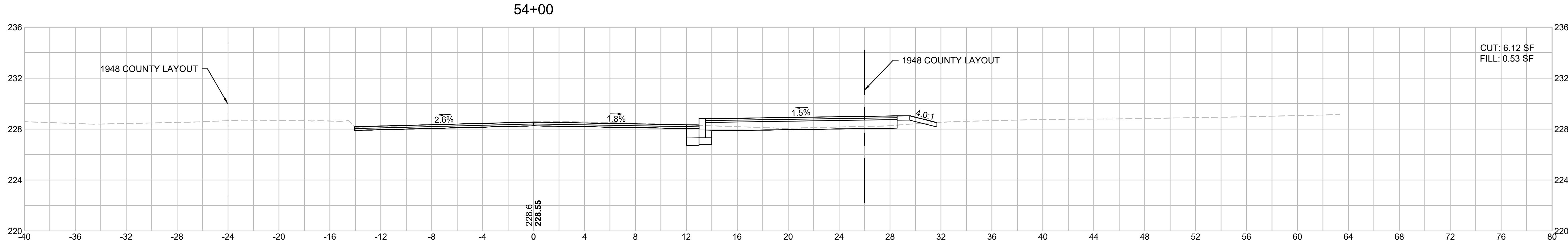
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STOUGHTON IMPROVEMENTS AT RICHARD L. WILKINS ELEMENTARY SCHOOL (SRTS)			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	100	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

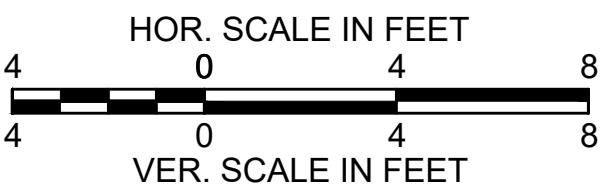
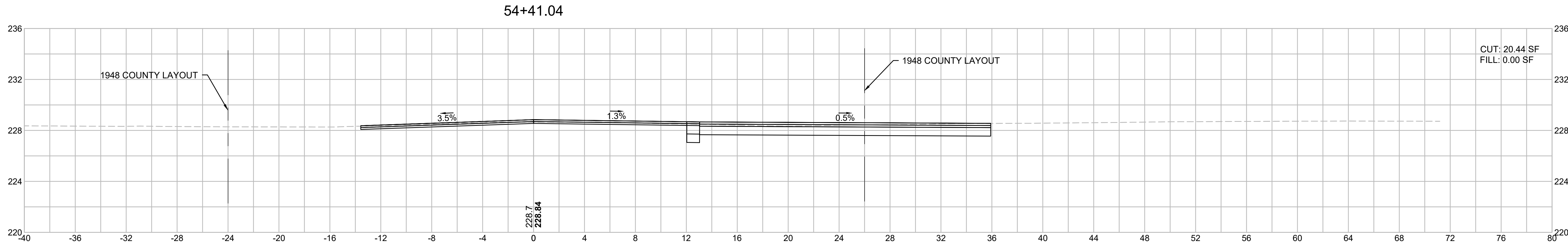
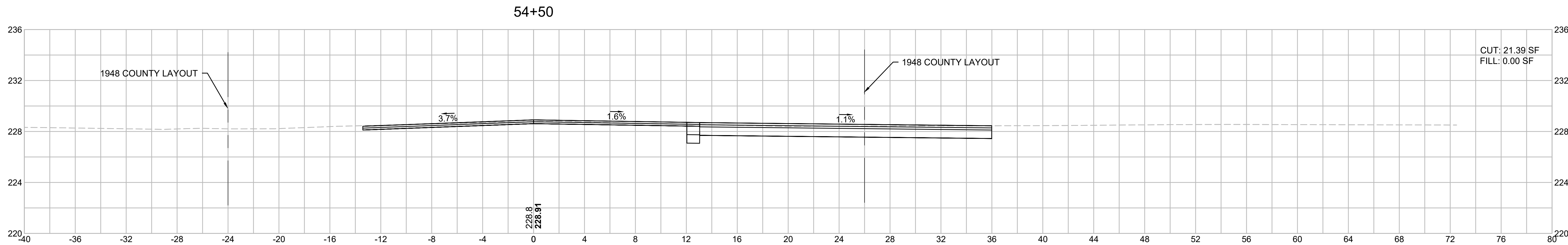
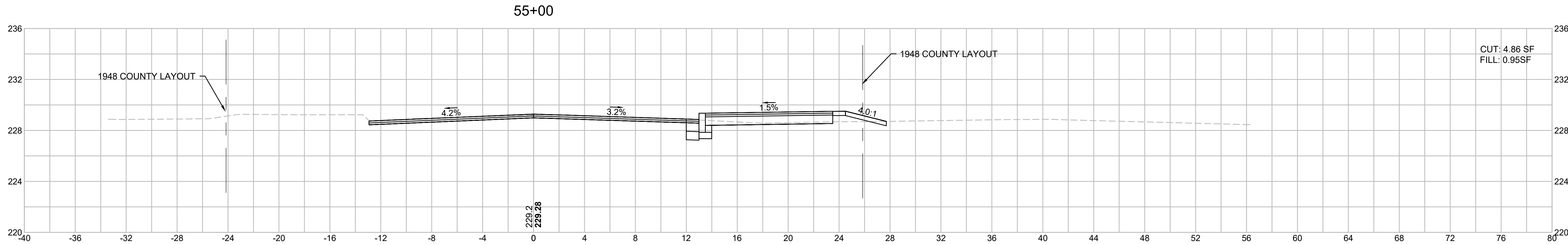


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	101	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

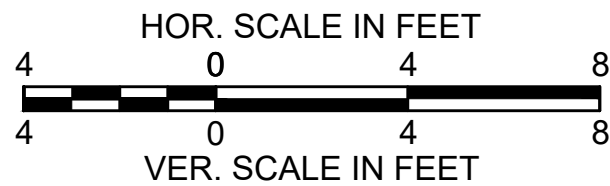
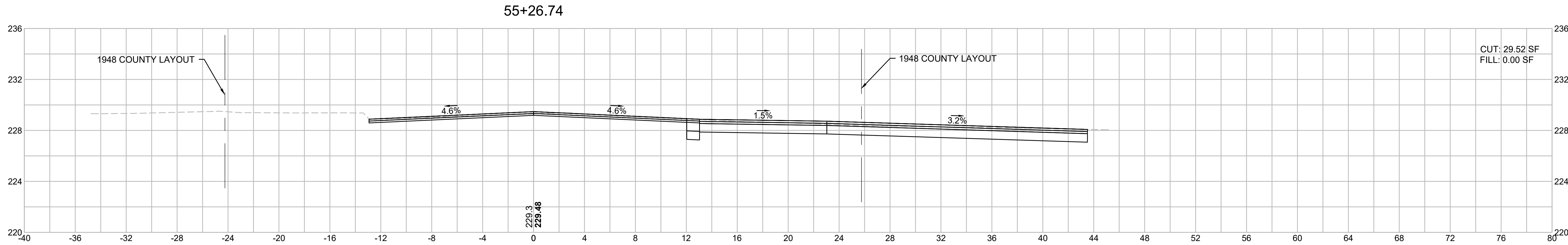
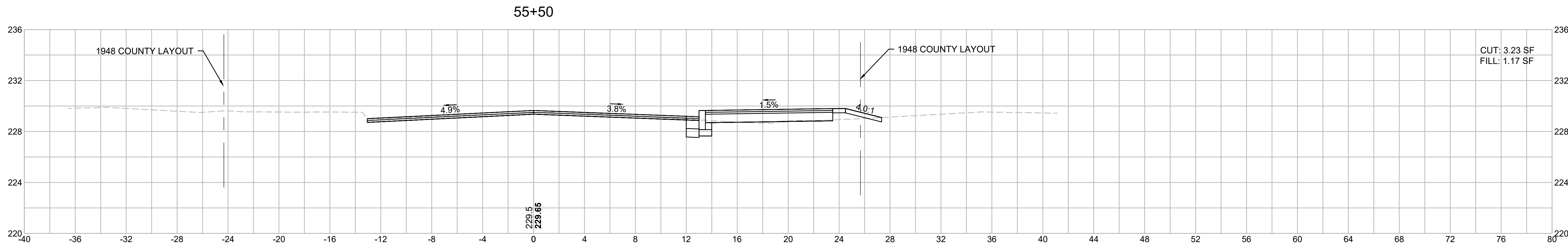
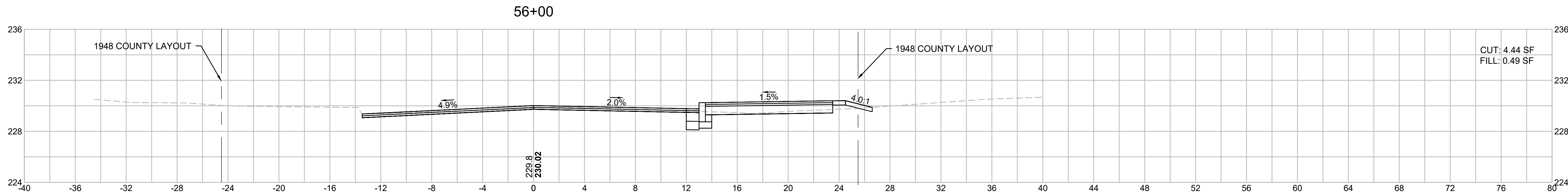


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	102	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

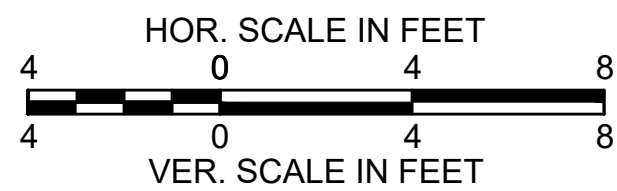
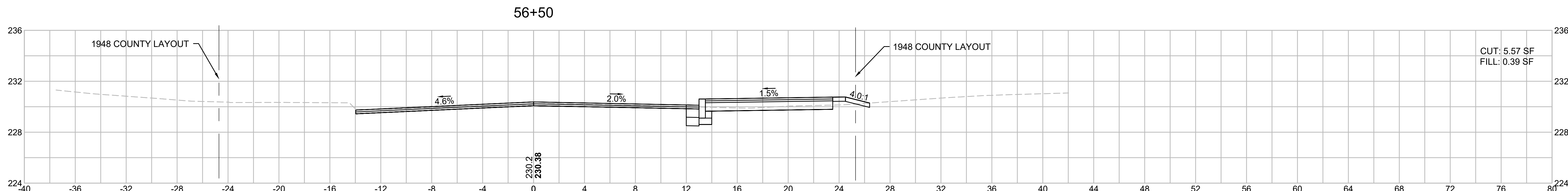
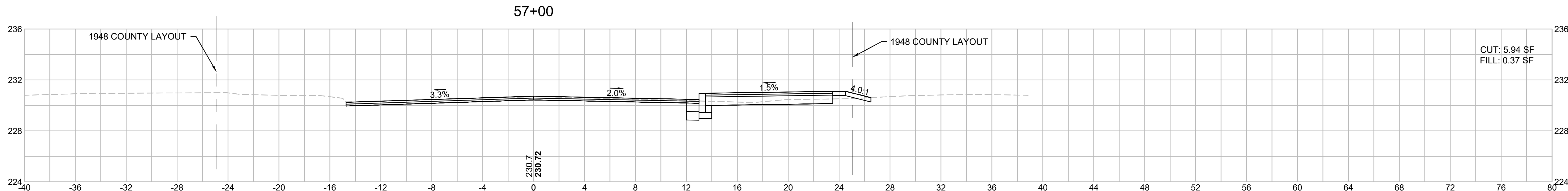
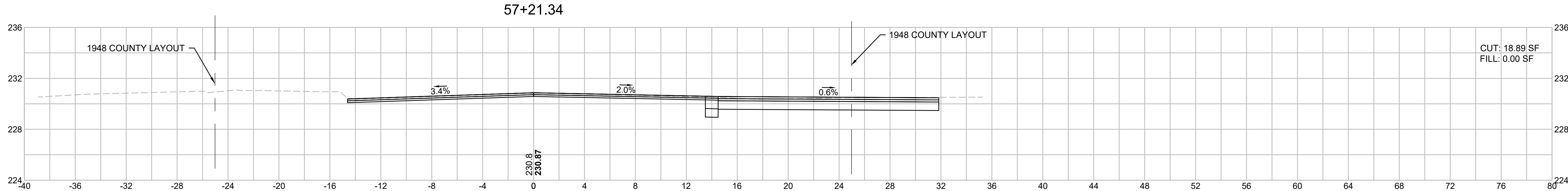


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	103	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

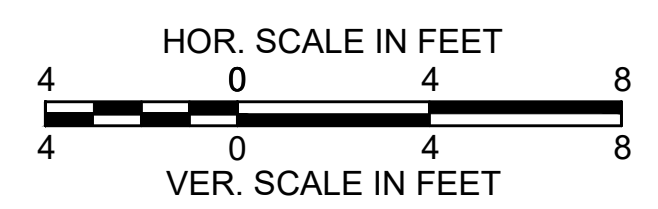
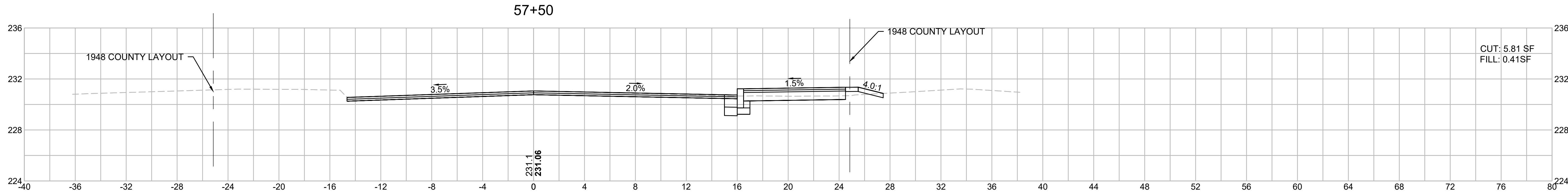
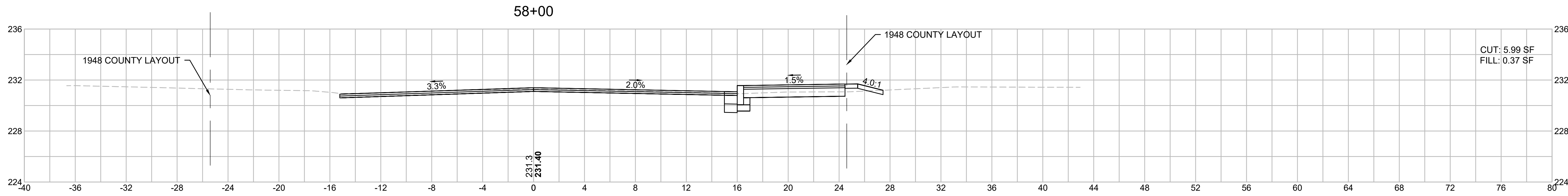
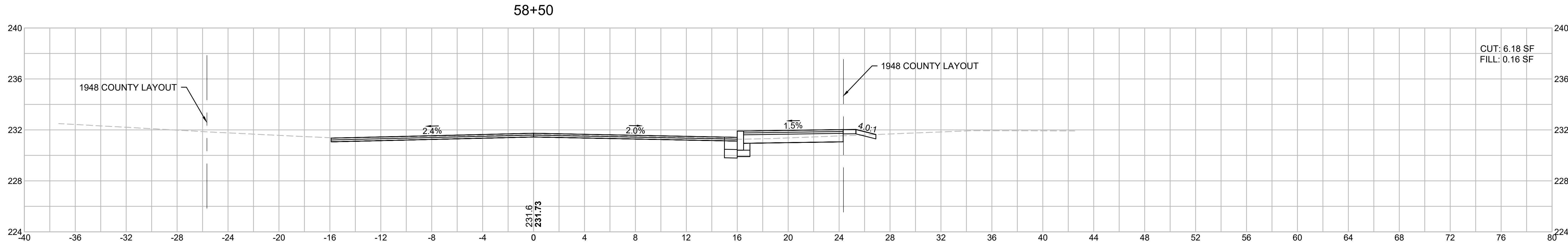


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STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	104	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET



Nitsch - P:\9720.21 Stoughton SRTS\Transportation\CAD\608829 CAD\Project Drawing Data\DWG\608829_HD(XSEC).dwg Jun 21, 2019 8:18 PM

STOUGHTON
IMPROVEMENTS AT RICHARD L. WILKINS
ELEMENTARY SCHOOL (SRTS)

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	105	105
PROJECT FILE NO.		608829	

CROSS SECTIONS
CENTRAL STREET

