MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

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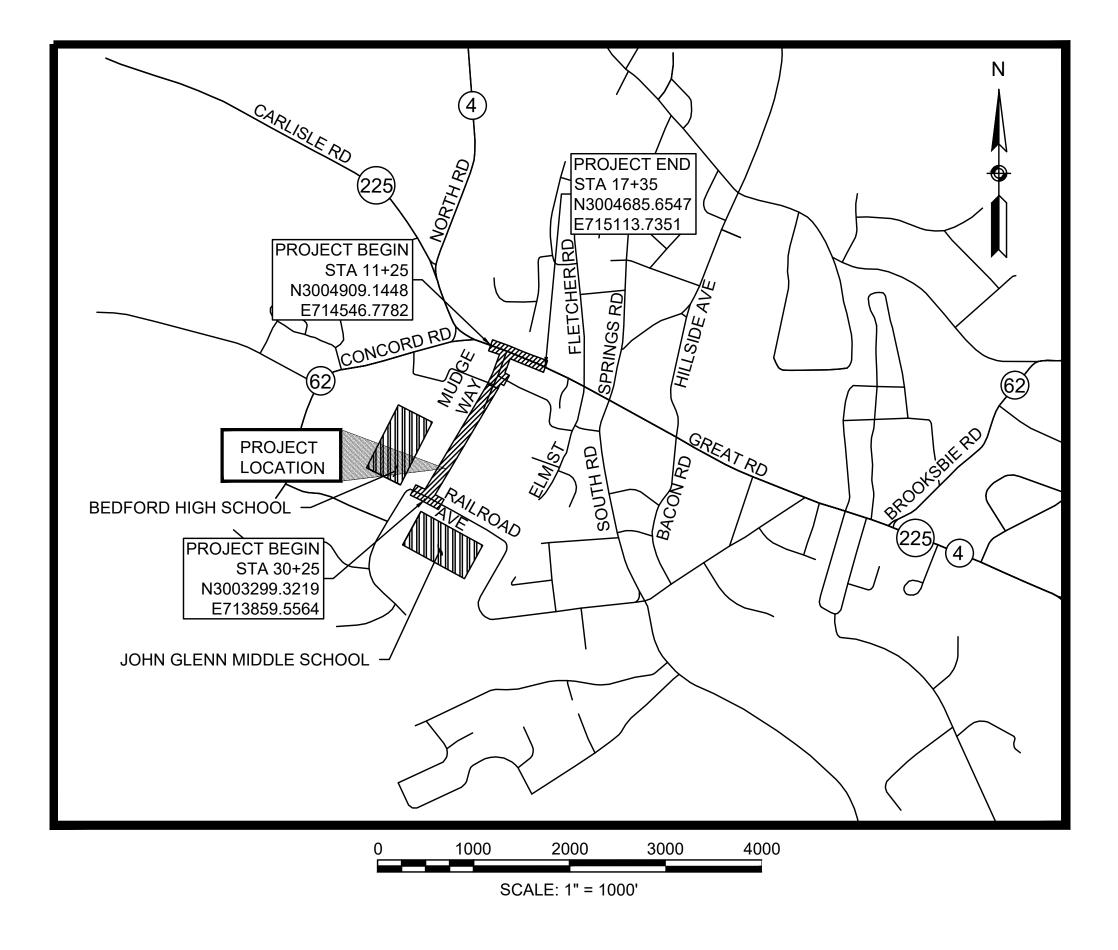
PLAN AND PROFILE OF

JOHN GLENN MIDDLE SCHOOL ROUTE 4/62/225 (THE GREAT ROAD) - MUDGE WAY

IN THE TOWN OF

BEDFORD MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. TAP-002S(924)X



LENGTH OF PROJECT = 2,500.00 FEET = 0.473 MILES

BEDFORD JOHN GLENN MIDDLE SCHOOL

JOHN GLENN MIDDLE SCHOOL					
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS		
MA	TAP-002S(924)X	1	45		
	PROJECT FILE NO.	608000			

TITLE SHEET & INDEX

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE 2014 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.

DESIGN DESIGNATION

GREAT ROAD (ROUTE 4/62/225)

- DESIGN SPEED ADT (2015) ADT (2025) K D T (PEAK HOUR) T (AVERAGE DAY) DHV DDHV FUNCTIONAL CLASSIFICATION
- 35 MPH 21,082 23,058 8.5% 71.6% WB 1.5% 1.6% 1,960 1,403 URBAN MINOR ARTERIAL

MUDGE WAY

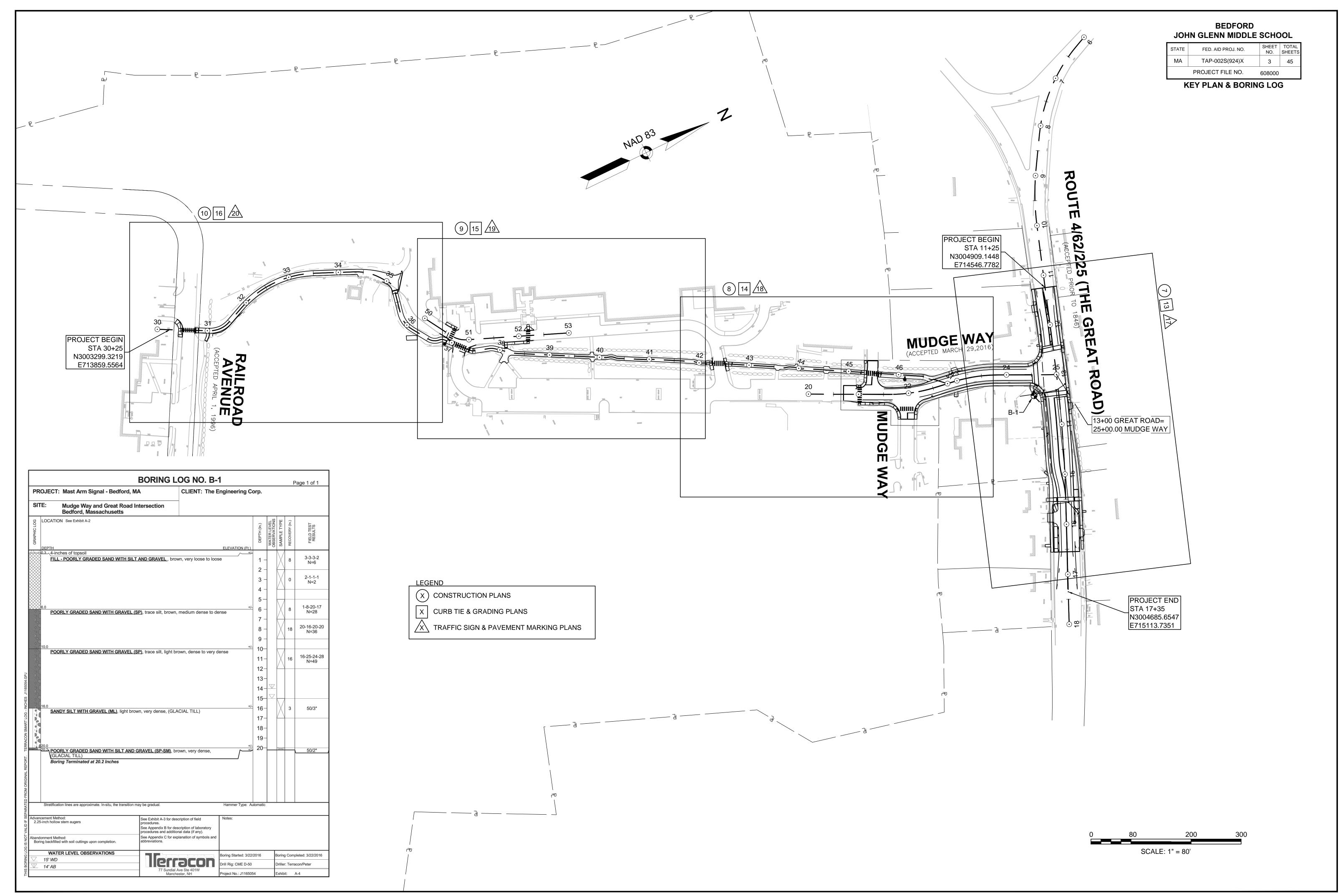
30 MPH 3,170 3,467 11.3% 58.3% NB 2.8% 1.3% 392 228 LOCAL

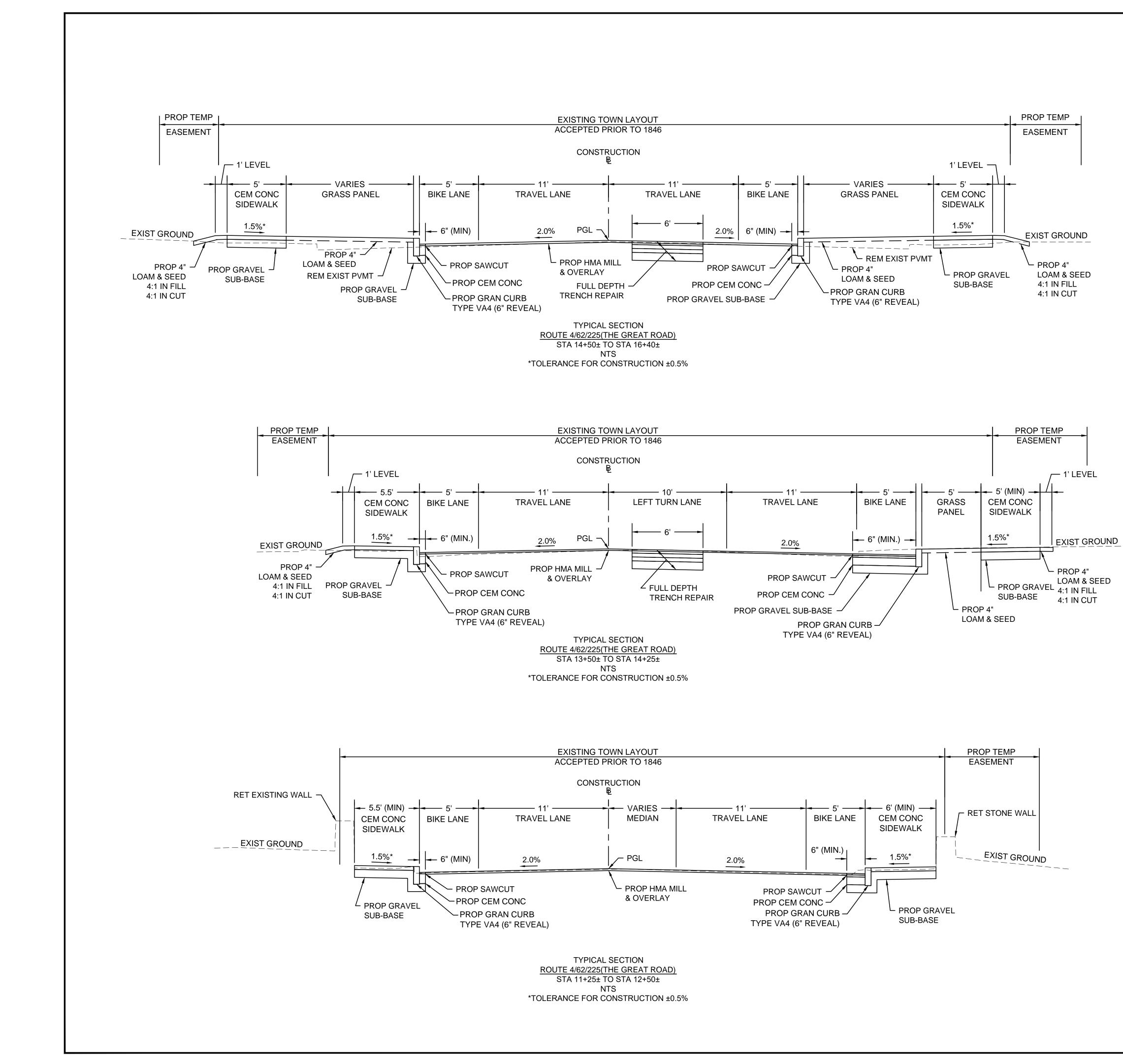
	DATE DESCRIPTION	REV #
B-16-16 TEC, Inc. 65 Glenn Street 169 Ocean Bl Lawrence, MA 01843 Hampton, NH	RECOMMENDED FOR APPROVAL	DATE
DEPARTMENT OF TRANSPORTA FEDERAL HIGHWAY ADMINISTRA APPROVED:		
DIVISION ADMINISTRATOR D	TE HIGHWAY ADMINISTRATOR	DATE

GENERAL SYMBOLS		
EXISTING	PROPOSED	DESCRIPTION
FP	JB	JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER FLAG POLE
GP		GAS PUMP
MB		MAIL BOX
MD		POST SQUARE
	0	POST SQUARE
0	6	FENCE GATE POST
BHL #	● BHL #	BORING HOLE
MW #	● B⊓L # ♦ MW #	MONITORING WELL
TP #	♥ MW # ■ TP #	TEST PIT
MHB	■ TP # ■ MHB	MASSACHUSETTS HIGHWAY BOUND
TB	■ MHB ■ TB	TOWN BOUND
SB		STONE BOUND
30		TRAVERSE OR TRIANGULATION STATION
		BENCHMARK
	O	BUSH (SPECIES & SIZE NOTED)
12" OAK	Ŏ	TREE (SPECIES & DIAMETER NOTED)
12 OAN	U	WETLAND FLAG
		TRAFFIC SIGN (1 POST)
		TRAFFIC SIGN (2 POSTS)
		CONTOURS (MAJOR)
		CONTOURS (MINOR)
		BUILDING
		CURBING (TYPE NOTED)
		BALANCE STONE WALL
		HIGHWAY GUARD - STEEL POSTS
		HIGHWAY GUARD - STEEL POSTS HIGHWAY GUARD - WOOD POSTS
		CHAIN LINK OR METAL FENCE (HEIGHT NOTED)
		WOOD FENCE (HEIGHT NOTED)
		EROSION CONTROL BARRIER
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR MILL AND OVERLAY
		TREE LINE OR LIMIT OF CLEARING AND GRUBBING
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT
		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE
P		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE
P		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE
₽ ₽ TILITY SYMBOLS		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE
TILITY SYMBOLS	PROPOSED	STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED)
TILITY SYMBOLS <u>EXISTING</u>		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) <u>DESCRIPTION</u>
TILITY SYMBOLS <u>EXISTING</u>	©	STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) DESCRIPTION CABLE MANHOLE
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TILITY SYMBOLS EXISTING © © © © © © © © © © © © ©		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) DESCRIPTION CABLE MANHOLE SEWER MANHOLE DRAIN MANHOLE CATCH BASIN CATCH BASIN CATCH BASIN CURB INLET DRAINAGE FLOW LINE DROP INLET CONCRETE HEADWALL STONE HEADWALL STON
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TILITY SYMBOLS EXISTING © © © © © © © © © © © © ©		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) DESCRIPTION CABLE MANHOLE SEWER MANHOLE SEWER MANHOLE DRAIN MANHOLE CATCH BASIN CATCH BASIN CURB INLET DRAINAGE FLOW LINE DROP INLET CONCRETE HEADWALL STONE HEADWALL S
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		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) DESCRIPTION CABLE MANHOLE SEWER MANHOLE SEWER MANHOLE DRAIN MANHOLE CATCH BASIN CATCH BASIN CURB INLET DRAINAGE FLOW LINE DROP INLET CONCRETE HEADWALL STONE HEADWALL STONE HEADWALL STONE HEADWALL STONE HEADWALL STONE HEADWALL CLARED END SECTION ELECTRIC MANHOLE DTHER MANHOLE ELECTRIC MANHOLE SAS MANHOLE SAS MANHOLE SAS MANHOLE SAS MANHOLE SAS GATE FELEPHONE MANHOLE MATER MANHOLE HYDRANT
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	$ \bigcirc \bigcirc$	STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) DESCRIPTION CABLE MANHOLE SEWER MANHOLE SEWER MANHOLE DRAIN MANHOLE CATCH BASIN CATCH BASIN CURB INLET DRAINAGE FLOW LINE DROP INLET CONCRETE HEADWALL CONCRETE HEADWALL CONCRETER CONCRETE HEADWALL CONCRETE HEADWALL
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		STATE HIGHWAY LAYOUT TOWN OR CITY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) DESCRIPTION CABLE MANHOLE SEWER MANHOLE SEWER MANHOLE DRAIN MANHOLE CATCH BASIN CATCH BASIN CATCH BASIN CURB INLET DRAINAGE FLOW LINE DROP INLET CONCRETE HEADWALL STONE HEADWALL STONE HEADWALL STONE HEADWALL STONE HEADWALL CLARED END SECTION LECTRIC MANHOLE DTHER MANHOLE SELECTRIC MANHOLE DTHER MANHOLE SAS MANHOLE SAS GATE TELEPHONE MANHOLE MATER MANHOLE MATER MANHOLE MATER MANHOLE MATER MANHOLE MATER MANHOLE MATER MANHOLE MATER MANHOLE MATER MANHOLE MATER METER WELL JTILITY POLE W/ FIRE BOX MATER METER WELL JTILITY POLE W/ FIRE BOX MATER METER MELL JTILITY POLE W/ FIRE BOX MATER METER MELL JTILITY POLE W/ FIRE BOX JTILITY POLE W/ FIRE BOX MATER & ANCHOR DVERHEAD CABLE / WIRE JNDERGROUND CABLE DUCT JNDERGROUND CABLE DUCT JNDERGROUND DELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
	$ \bigcirc \bigcirc$	STATE HIGHWAY LAYOUT TOWN OR CITY BOUNDARY LINE PROPERTY LINE OR APPROXIMATE PROPERTY LINE EASEMENT LINE (TYPE NOTED) DESCRIPTION CABLE MANHOLE SEWER MANHOLE SEWER MANHOLE SEWER MANHOLE SEWER MANHOLE SATCH BASIN CATCH BASIN CATCH BASIN CURB INLET DRAINAGE FLOW LINE DROP INLET CONCRETE HEADWALL STONE HEADWALL STONE STONE HEADWALL STONE HEADWALL
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PAVEMENT MARKING	SYMBOLS		ABBREVIATIO	DNS		
EXISTING	PROPOSED	DESCRIPTION	GENERAL			BEDFORD JOHN GLENN MIDDLE SCHOOL
			AADT	ANNUAL AVERAGE DAILY TRAFFIC		SHEET TOTAL
		PAVEMENT ARROW - WHITE	ABAN ADJ	ABANDON ADJUST		STATEFED. AID PROJ. NO.NO.SHEETSMATAP-002S(924)X245
OM Y	ONLY	LEGEND "ONLY" - WHITE	APPROX.	APPROXIMATE		PROJECT FILE NO. 608000
VILI			BIT. BB	BITUMINOUS BIT BERM		LEGEND & ABBREVIATIONS
	<u> </u>	LEGEND "SHARROW" - WHITE	BC	BOTTOM OF CURB	P.G.L.	ATIONS (cont.) PROFILE GRADE LINE
+ 38	← ⁺ 8	LEGEND "BICYCLE LANE" - WHITE	BD.	BOUND	PI	POINT OF INTERSECTION
		LEGEND "BICYCLE DETECTOR" - WHITE	BL BLDG	BASELINE BUILDING	POC POT	POINT ON CURVE POINT ON TANGENT
e.		LEGEND DIGTOLE DETECTOR - WHITE	BM	BENCHMARK	PRC	POINT ON TANGENT POINT OF REVERSE CURVATURE
SL	SL	STOP LINE - WHITE	BO BOS	BY OTHERS BOTTOM OF SLOPE	PROT	PROTECTION
*****	* * * * * * * * *	YIELD LINE - WHITE	BRK	BRICK	PROJ PROP	PROJECT PROPOSED
	CW		C/O CB	CARE OF CATCH BASIN	PSB	PLANTABLE SOIL BORROW
CW		CROSSWALK - WHITE (WIDTH NOTED)	CBCI	CATCH BASIN WITH CURB INLET	PT PVC	POINT OF TANGENCY POINT OF VERTICAL CURVATURE
SWL	SWL	SOLID WHITE EDGE LINE (WIDTH NOTED)	CC CCM	CEMENT CONCRETE CEMENT CONCRETE MASONRY	PVI	POINT OF VERTICAL INTERSECTION
SYL	SYL		CEM	CEMENT	PVT PVC	POINT OF VERTICAL TANGENCY POLYVINYL CHLORIDE PIPE
		SOLID YELLOW EDGE LINE (WIDTH NOTED)	CGAS		PVMT	PAVEMENT
BWL	BWL	BROKEN WHITE LINE (WIDTH, LENGTH & SPACING NOTED)	CI CIP	CURB INLET CAST IRON PIPE	R R&D	RADIUS OF CURVATURE REMOVE AND DISPOSE
BYL	BYL	BROKEN YELLOW LINE (WIDTH, LENGTH & SPACING NOTED)	CIT		RCP	REINFORCED CONCRETE PIPE
			CLF CL	CHAIN LINK FENCE CENTERLINE	RD REM	ROAD REMOVE
DWL	DWL	DOTTED WHITE LINE (WIDTH, LENGTH & SPACING NOTED)	CLDI	CEMENT LINED DUCTILE IRON	REMOD	REMODEL
DYL	DYL	DOTTED YELLOW LINE (WIDTH, LENGTH & SPACING NOTED)	CMCT CMP	COMCAST CORRUGATED METAL PIPE	RET RET WALL	RETAIN RETAINING WALL
			CON	CONIFEROUS TREE	RETWALL	RIGHT OF WAY
DWLEx	DWLEx	DOTTED WHITE LINE EXTENSION (WIDTH, LENGTH & SPACING NOTED)	CSP CO.	CORRUGATED STEEL PIPE COUNTY	R&R	REMOVE AND RESET
DYLEx	DYLEx	DOTTED YELLOW LINE EXTENSION (WIDTH, LENGTH & SPACING NOTED)	CONC	CONCRETE	R&S RRFB	REMOVE AND STACK RECTANGULAR RAPID FLASHING BEACON
			CONT	CONTINUOUS	RT	RIGHT
DBYL	DBYL	DOUBLE YELLOW CENTER LINE	CONST CR GR	CONSTRUCTION CROWN GRADE	SB SHLD	STONE BOUND OR SERVICE BOX SHOULDER
$\overline{\mathbf{v}}$	•	SLOTTED PAVEMENT MARKING - ONE WAY (COLOR NOTED)	CTRSB	CONTROL STONE BOUND	SMH	SEWER MANHOLE
A	•	SLOTTED PAVEMENT MARKING - TWO WAY (COLOR NOTED)	DEC DHSB	DECIDUOUS TREE DRILL HOLE/STONE BOUND	ST STA	STREET STATION
•	•		DHV	DESIGN HOURLY VOLUME	SSD	STOPPING SIGHT DISTANCE
			DI DIA	DROP INLET DIAMETER	STN SW	STONE SIDEWALK
			DIP	DUCTILE IRON PIPE	T	TANGENT DISTANCE OF CURVE/TRUCK %
			DMH DPW	DRAIN MANHOLE DEPARTMENT OF PUBLIC WORKS	TAN TEMP	TANGENT TEMPORARY
			DWY	DRIVEWAY	TC	TOP OF CURB
			EHH	ELECTRIC HAND HOLE	TOS	TOP OF SLOPE
			ELEV (OF EL.) EP	ELEVATION EDGE OF PAVEMENT	TS TYP	TRAFFIC SIGNAL TYPICAL
TRAFFIC SIGNAL SYM	MBOLS		EXIST (or EX)		ULT	UTILITY POLE WITH STREET LIGHT
			EXC F&C	EXCAVATION FRAME AND COVER	UP VLT	UTILITY POLE VAULT
EXISTING	PROPOSED	DESCRIPTION	F&G	FRAME AND GRATE	VZ	
		CONTROLLER CABINET W/ CONC PAD	FBX FD	FIRE ALARM BOX FOUND	WCR WD	WHEEL CHAIR RAMP WOOD
\bigcirc		MAST ARM FOUNDATION (SCALE OF BLOCK = DIA. IN INCHES)	FDN.	FOUNDATION	WG	WATER GATE
\bigcirc	•		GC GCC	GRANITE CURB GRANITE CURB CORNER	WM X-SECT	WATER METER/WATER MAIN CROSS SECTION
		MAST ARM (LENGTH NOTED)	GD	GROUND		
-\$-	•	SIGNAL POST FOUNDATION (HEIGHT NOTED)	GG GI	GAS GATE GUTTER INLET		
_	_		GRAN	GRANITE	CAB. CCVE	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT
	•	PULL BOX	GRAV	GRAVEL	DW	STEADY DON'T WALK
$+ \triangleright$	+>	VEHICULAR SIGNAL HEAD	GRD HDW	GUARD HEADWALL	FDW FR	FLASHING DON'T WALK FLASHING CIRCULAR RED
		PEDESTRIAN SIGNAL HEAD	HMA	HOT MIX ASPHALT	FRL	FLASHING RED LEFT ARROW
	-		HOR HYD	HORIZONTAL HYDRANT	FRR FY	FLASHING RED RIGHT ARROW FLASHING CIRCULAR AMBER
н	H	MAST ARM MOUNTED SIGN	INV	INVERT	FYL	FLASHING AMBER LEFT ARROW
		VIDEO DETECTION CAMERA	I. ROD L&S	IRON ROD LOAM AND SEED	FYR G	FLASHING AMBER RIGHT ARROW STEADY CIRCULAR GREEN
	-		L	LENGTH OF CURVE	GL	STEADY GREEN LEFT ARROW
	\bigcirc	VIDEO DETECTION ZONE (SIZE NOTED)	LOG LP	LIMIT OF GRADING LIGHT POLE	GR GSL	STEADY GREEN RIGHT ARROW STEADY GREEN SLASH LEFT ARROW
	Ħ	WIRE LOOP DETECTOR (SIZE NOTED)	LSA	LANDSCAPED AREA	GSR	STEADY GREEN SLASH RIGHT ARROW
		EMERGENCY PREEMPTION DETECTOR	LT MAX	LEFT MAXIMUM	GV OL	STEADY GREEN VERTICAL ARROW OVERLAP
	-		MAG	MAG NAIL	PED	PEDESTRIAN
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE	MB MH	MAILBOX MANHOLE	PTZ R	PAN, TILE, ZOOM STEADY CIRCULAR RED
	•	PEDESTRIAN PUSH BUTTON	MH MIN	MANHOLE MINIMUM	RL	STEADY RED LEFT ARROW
			MPL		RR TR SIG	STEADY RED RIGHT ARROW TRAFFIC SIGNAL
	======	TRAFFIC SIGNAL CONDUIT	N/F NGRID	NOW OR FORMERLY NATIONAL GRID	TSC	TRAFFIC SIGNAL CONDUIT
			NIC	NOT IN CONTRACT	W WCR	STEADY WALK WHEELCHAIR RAMP
			NO. PC	NUMBER POINT OF CURVATURE	Y	STEADY CIRCULAR AMBER
			PCC	POINT OF COMPOUND CURVATURE	YL	STEADY AMBER LEFT ARROW

PAVEMENT MARKING	3 SYMBOLS		ABBREVIATIC	DNS		
EXISTING	PROPOSED	DESCRIPTION	GENERAL			BEDFORD JOHN GLENN MIDDLE SCHOOL
			AADT	ANNUAL AVERAGE DAILY TRAFFIC		STATE FED. AID PROJ. NO. SHEET TOTAL NO. SHEETS
		PAVEMENT ARROW - WHITE	ABAN ADJ	ABANDON ADJUST		MA TAP-002S(924)X 2 45
ONLY	ONLY	LEGEND "ONLY" - WHITE	APPROX. BIT.	APPROXIMATE BITUMINOUS		PROJECT FILE NO. 608000
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>~~</b>	LEGEND "SHARROW" - WHITE	BB	BIT BERM	ABBREVIA	LEGEND & ABBREVIATIONS TIONS (cont.)
			BC BD.	BOTTOM OF CURB BOUND	P.G.L.	PROFILE GRADE LINE
	<b>←</b> ♣	LEGEND "BICYCLE LANE" - WHITE	BL	BASELINE	PI POC	POINT OF INTERSECTION POINT ON CURVE
		LEGEND "BICYCLE DETECTOR" - WHITE	BLDG BM	BUILDING BENCHMARK	POT	POINT ON TANGENT
SL	SL	STOP LINE - WHITE	BO	BY OTHERS	PRC PROT	POINT OF REVERSE CURVATURE PROTECTION
			BOS BRK	BOTTOM OF SLOPE BRICK	PROJ PROP	PROJECT PROPOSED
	CW	YIELD LINE - WHITE	C/O	CARE OF	PSB	PLANTABLE SOIL BORROW
CW		CROSSWALK - WHITE (WIDTH NOTED)	CB CBCI	CATCH BASIN CATCH BASIN WITH CURB INLET	PT PVC	POINT OF TANGENCY POINT OF VERTICAL CURVATURE
SWL	SWL	SOLID WHITE EDGE LINE (WIDTH NOTED)	CC CCM	CEMENT CONCRETE CEMENT CONCRETE MASONRY	PVI	POINT OF VERTICAL INTERSECTION
SYL	SYL	SOLID YELLOW EDGE LINE (WIDTH NOTED)	CEM	CEMENT	PVT PVC	POINT OF VERTICAL TANGENCY POLYVINYL CHLORIDE PIPE
		Solid Teleow Eboe Line (Wid Think Teb)	CGAS CI	COLUMBIA GAS CURB INLET	PVMT P	PAVEMENT RADIUS OF CURVATURE
BWL	BWL	BROKEN WHITE LINE (WIDTH, LENGTH & SPACING NOTED)	CIP	CAST IRON PIPE	R R&D	REMOVE AND DISPOSE
BYL	BYL	BROKEN YELLOW LINE (WIDTH, LENGTH & SPACING NOTED)	CIT CLF	CHANGE IN TYPE CHAIN LINK FENCE	RCP RD	REINFORCED CONCRETE PIPE ROAD
DWL	DWL	DOTTED WHITE LINE (WIDTH, LENGTH & SPACING NOTED)	CL CLDI	CENTERLINE CEMENT LINED DUCTILE IRON	REM	REMOVE
DYL			CMCT	COMCAST	REMOD RET	REMODEL RETAIN
	DYL	DOTTED YELLOW LINE (WIDTH, LENGTH & SPACING NOTED)	CMP CON	CORRUGATED METAL PIPE CONIFEROUS TREE	RET WALL ROW	RETAINING WALL RIGHT OF WAY
DWLEx	DWLEx	DOTTED WHITE LINE EXTENSION (WIDTH, LENGTH & SPACING NOTED)	CSP CO.	CORRUGATED STEEL PIPE COUNTY	R&R	REMOVE AND RESET
DYLEx	DYLEx	DOTTED YELLOW LINE EXTENSION (WIDTH, LENGTH & SPACING NOTED)	CONC	CONCRETE	R&S RRFB	REMOVE AND STACK RECTANGULAR RAPID FLASHING BEACON
DBYL	DBYL	DOUBLE YELLOW CENTER LINE	CONT CONST	CONTINUOUS CONSTRUCTION	RT SB	RIGHT STONE BOUND OR SERVICE BOX
			CR GR	CROWN GRADE	SHLD	SHOULDER
$\mathbf{\overline{v}}$	•	SLOTTED PAVEMENT MARKING - ONE WAY (COLOR NOTED)	CTRSB DEC	CONTROL STONE BOUND DECIDUOUS TREE	SMH ST	SEWER MANHOLE STREET
•	•	SLOTTED PAVEMENT MARKING - TWO WAY (COLOR NOTED)	DHSB DHV	DRILL HOLE/STONE BOUND	STA	STATION
			DHV DI	DESIGN HOURLY VOLUME DROP INLET	SSD STN	STOPPING SIGHT DISTANCE STONE
			DIA DIP	DIAMETER DUCTILE IRON PIPE	SW	SIDEWALK
			DIP DMH	DOCTILE IRON PIPE DRAIN MANHOLE	TAN	TANGENT DISTANCE OF CURVE/TRUCK % TANGENT
			DPW	DEPARTMENT OF PUBLIC WORKS	TEMP	TEMPORARY TOP OF CURB
			DWY EHH	DRIVEWAY ELECTRIC HAND HOLE	TC TOS	TOP OF SLOPE
			ELEV (or EL.) EP		TS TYP	TRAFFIC SIGNAL TYPICAL
			EP EXIST (or EX)	EDGE OF PAVEMENT EXISTING	ULT	UTILITY POLE WITH STREET LIGHT
TRAFFIC SIGNAL SYI	MBOLS		EXC	EXCAVATION FRAME AND COVER	UP VLT	UTILITY POLE VAULT
EXISTING	PROPOSED	DESCRIPTION	F&C F&G	FRAME AND GRATE	VZ	VERIZON
		CONTROLLER CABINET W/ CONC PAD	FBX FD	FIRE ALARM BOX FOUND	WCR WD	WHEEL CHAIR RAMP WOOD
$\bigcirc$		MAST ARM FOUNDATION (SCALE OF BLOCK = DIA. IN INCHES)	FDN.	FOUNDATION	WG	WATER GATE
$\bigcirc$	•		GC GCC	GRANITE CURB GRANITE CURB CORNER	WM X-SECT	WATER METER/WATER MAIN CROSS SECTION
		MAST ARM (LENGTH NOTED)	GD	GROUND	TRAFFIC S	
-¢-	•	SIGNAL POST FOUNDATION (HEIGHT NOTED)	GG GI	GAS GATE GUTTER INLET	CAB.	CABINET
	-	PULL BOX	GRAN GRAV	GRANITE GRAVEL	CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
+	-+>		GRD	GUARD	DW FDW	STEADY DON'T WALK FLASHING DON'T WALK
-12-		VEHICULAR SIGNAL HEAD	HDW HMA	HEADWALL HOT MIX ASPHALT	FR FRL	FLASHING CIRCULAR RED FLASHING RED LEFT ARROW
		PEDESTRIAN SIGNAL HEAD	HOR	HORIZONTAL	FRR	FLASHING RED RIGHT ARROW
-	4	MAST ARM MOUNTED SIGN	HYD INV	HYDRANT INVERT	FY FYL	FLASHING CIRCULAR AMBER FLASHING AMBER LEFT ARROW
		VIDEO DETECTION CAMERA	I. ROD L&S	IRON ROD LOAM AND SEED	FYR G	FLASHING AMBER RIGHT ARROW STEADY CIRCULAR GREEN
			L	LENGTH OF CURVE	GL	STEADY GREEN LEFT ARROW
		VIDEO DETECTION ZONE (SIZE NOTED)	LOG LP	LIMIT OF GRADING LIGHT POLE	GR GSL	STEADY GREEN RIGHT ARROW STEADY GREEN SLASH LEFT ARROW
		WIRE LOOP DETECTOR (SIZE NOTED)	LSA	LANDSCAPED AREA	GSR GV	STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW
	-4	EMERGENCY PREEMPTION DETECTOR	LT MAX	LEFT MAXIMUM	OL	OVERLAP
	*	EMERGENCY PREEMPTION CONFIRMATION STROBE	MAG MB	MAG NAIL MAILBOX	PED PTZ	PEDESTRIAN PAN, TILE, ZOOM
	*		MH	MANHOLE	R	STEADY CIRCULAR RED
	9	PEDESTRIAN PUSH BUTTON	MIN MPL	MINIMUM MAPLE TREE	RL RR	STEADY RED LEFT ARROW STEADY RED RIGHT ARROW
		TRAFFIC SIGNAL CONDUIT	N/F	NOW OR FORMERLY	TR SIG TSC	TRAFFIC SIGNAL TRAFFIC SIGNAL CONDUIT
			NGRID	NATIONAL GRID	100	
			NIC	NOT IN CONTRACT	W	STEADY WALK
					W WCR Y	STEADY WALK WHEELCHAIR RAMP STEADY CIRCULAR AMBER

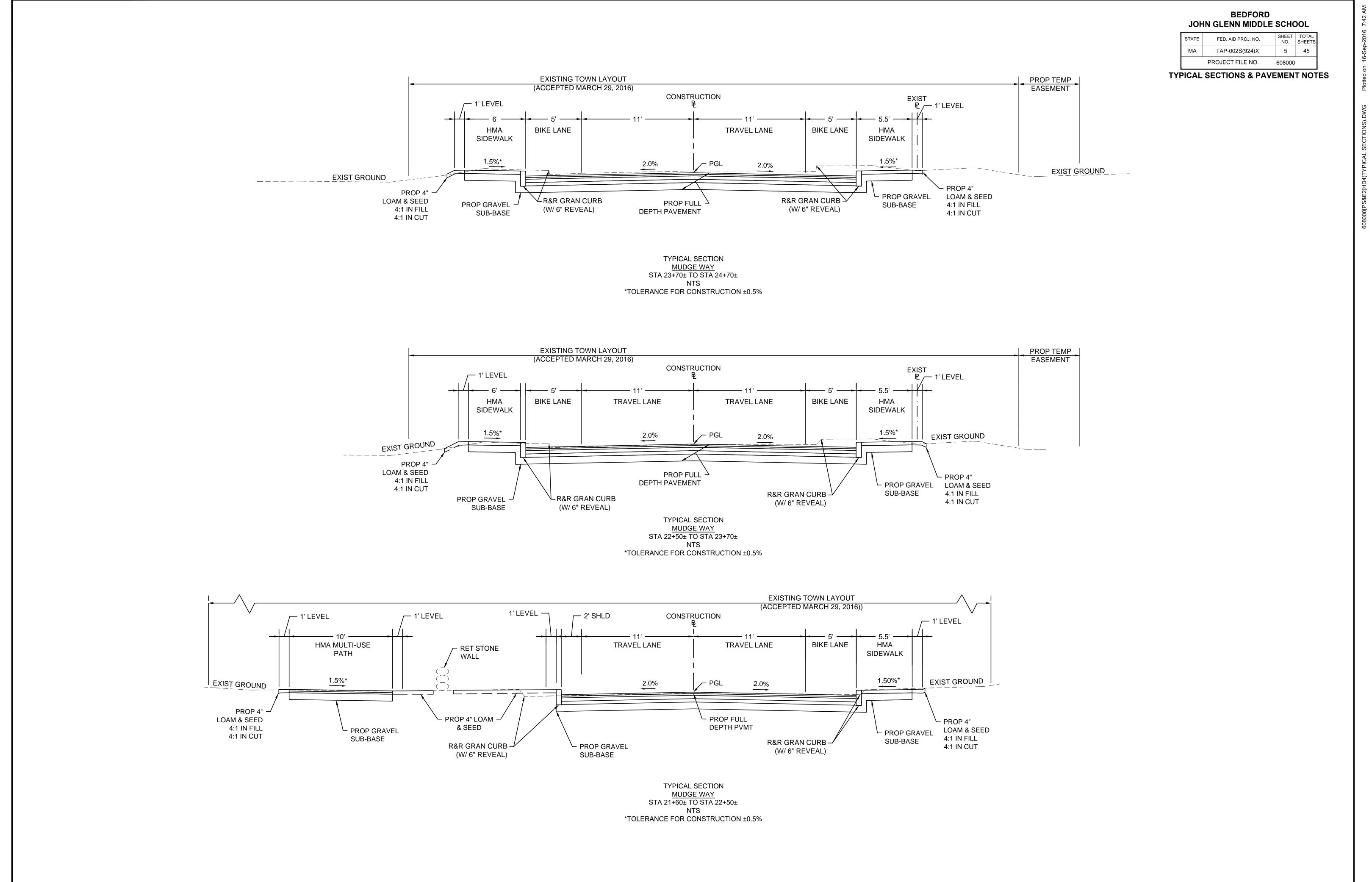


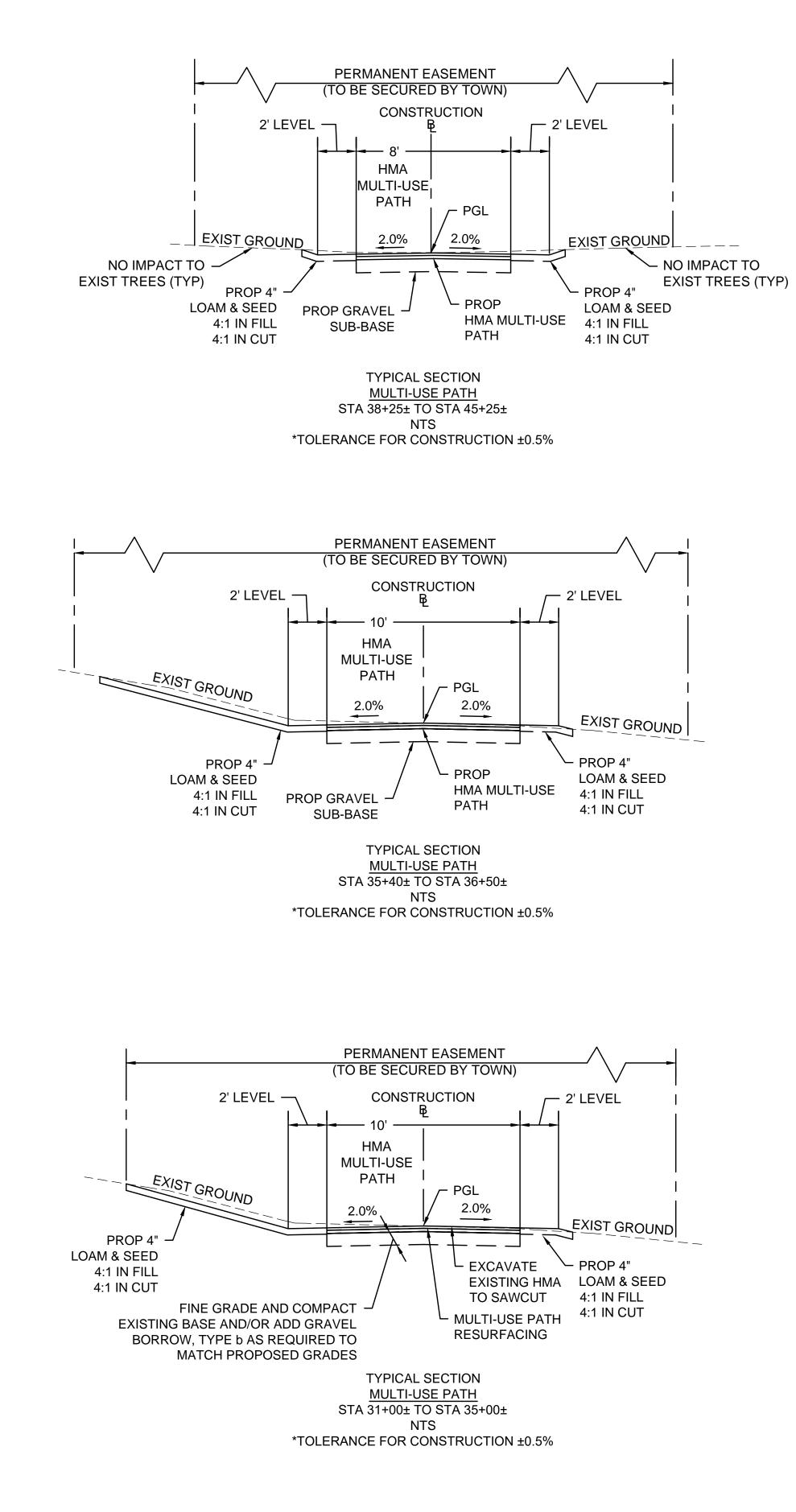


### BEDFORD

JOF	JOHN GLENN MIDDLE SCHOOL					
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS			
MA	TAP-002S(924)X	4	45			
	PROJECT FILE NO.	608000				

**TYPICAL SECTIONS & PAVEMENT NOTES** 





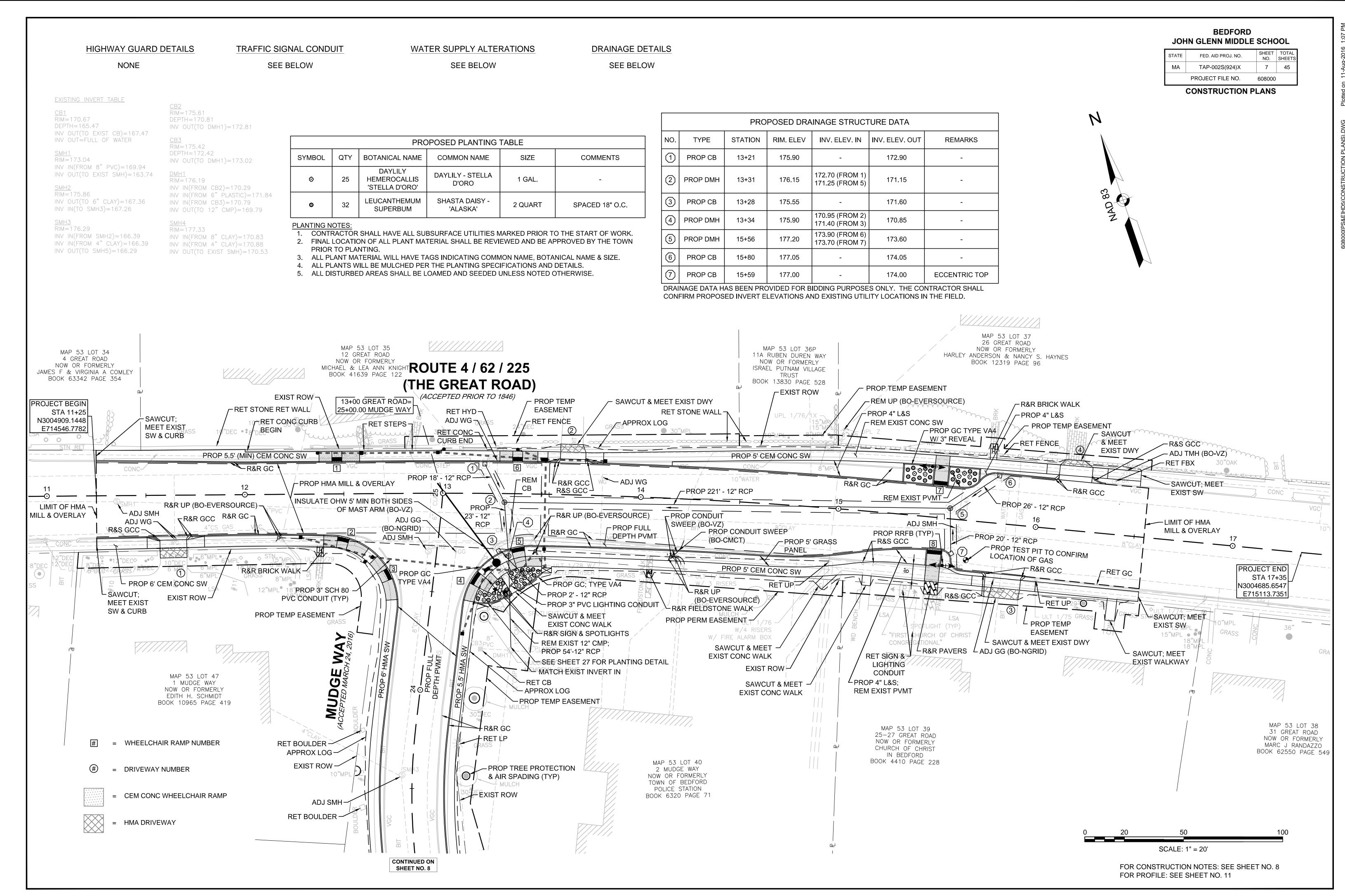
GENERAL PAVEMENT NOTES:

- 1. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT SURFACES AND SAWCUT JOINTS BEFORE PAVING. HMA JOINT SEALANT SHALL BE APPLIED TO ALL COLD JOINTS (LONGITUDINAL AND TRANSVERSE) BEFORE PAVING SURFACE COURSE. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT A RATE OF 0.05 GAL/SY, EXCEPT OVER MILLED AND CEMENT CONCRETE SURFACES, WHERE THE APPLICATION RATE SHALL BE 0.07 GAL/SY. ALL SURFACES SHALL BE CLEAN OF ALL ORGANICS, DEBRIS, AND SAND PRIOR TO PAVING.
- 2. ALL PROPOSED HMA SIDEWALK AND HMA DRIVEWAY SUPERPAVE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE RESPECTIVE SPECIAL PROVISIONS FOR SIDEWALKS, WHEELCHAIR RAMPS AND DRIVEWAYS.
- 3. ALL PROPOSED SUPERPAVE WITHIN ROADWAYS AND MULTI-USE PATH SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 450 QUALITY ASSURANCE FOR HOT MIX ASPHALT, AND SECTION 455 SUPERPAVE HOT MIX ASPHALT.
- 4. ANY EXISTING GRAVEL BASE DEEMED SUITABLE FOR REUSE BY THE RESIDENT ENGINEER SHALL REMAIN AND BE COMPACTED. ADD GRAVEL BORROW TYPE b AS REQUIRED TO MEET PROPOSED GRADES.
- 5. ALL PROPOSED SUPERPAVE INTERMEDIATE COURSE FOR FULL DEPTH TRENCH REPAIR SHALL BE PAID FOR UNDER ITEM 451. HMA FOR PATCHING.
- 6. WARM MIX ASPHALT (ITEM 456.) SHALL BE USED WITH ALL SUPERPAVE ITEMS.
- 7. LATEX MODIFICATION SHALL ONLY BE REQUIRED FOR SURFACE COURSE WITHIN GREAT ROAD.

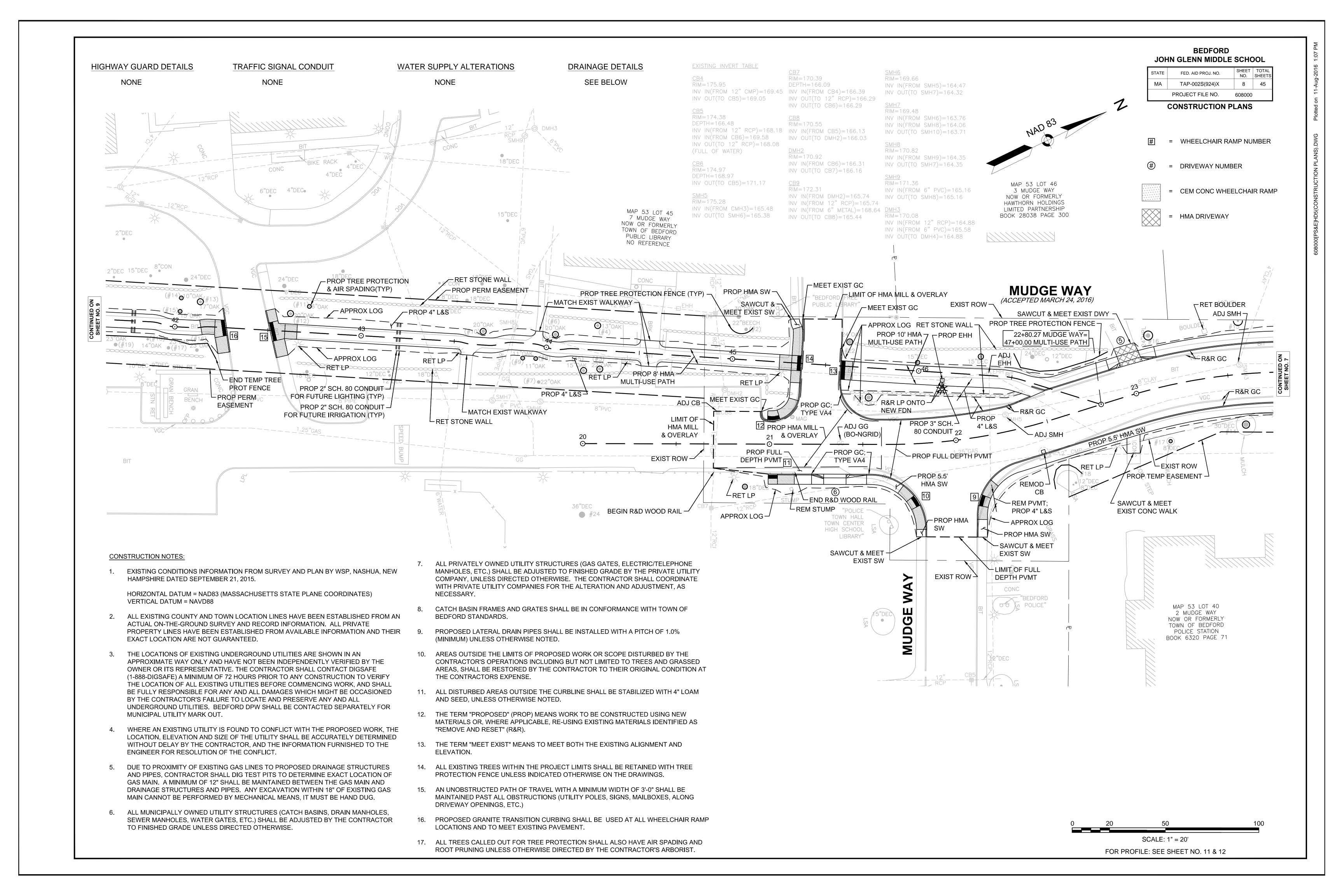
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	TAP-002S(924)X	6	45
	PROJECT FILE NO.	608000	

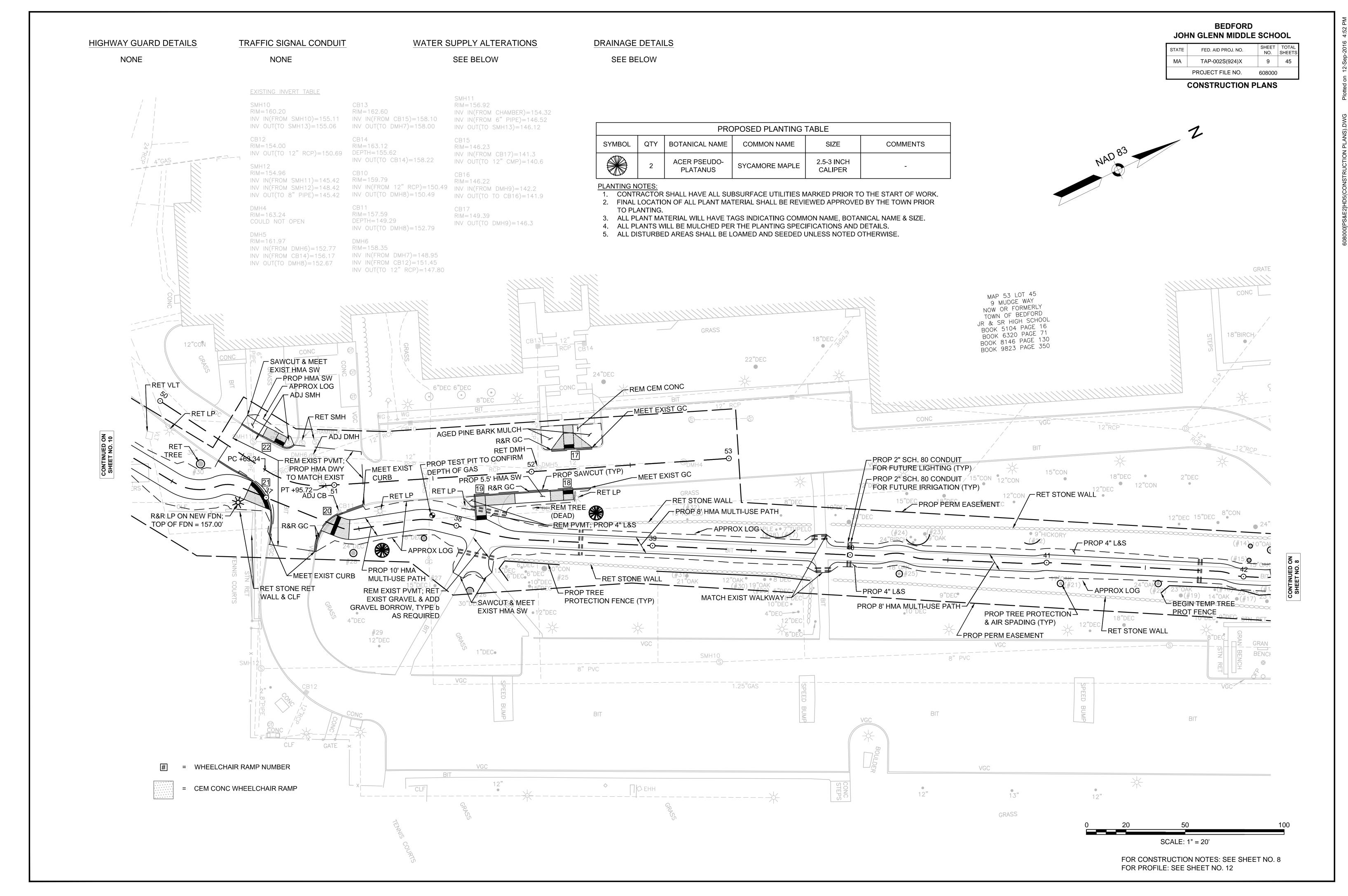
**TYPICAL SECTIONS & PAVEMENT NOTES** 

	PAVEMENT NOTES
PROPOSED MI	LL & HOT MIX ASPHALT (HMA) OVERLAY
SURFACE:	1¾" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER 1¾" PAVEMENT MICROMILLING
PROPOSED FU	JLL DEPTH PAVEMENT
SURFACE:	1¾" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE:	4" SUPERPAVE BASE COURSE - 37.5 (SBC-37.5)
SUB-BASE:	4" DENSE GRADED CRUSHED STONE OVER 8" GRAVEL BORROW, TYPE b (COMPACTED)
PROPOSED FL	JLL DEPTH PAVEMENT LESS THAN 4 FEET WIDE
SURFACE:	1¾" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE:	6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE (3000 PSI, 1.5", 470 LBS, HES, AIR ENTRAINED)
SUB-BASE:	8" GRAVEL BORROW, TYPE b (COMPACTED)
PROPOSED FL	JLL DEPTH TRENCH REPAIR
SURFACE:	1¾" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER 3" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0)
BASE:	3" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)
SUB-BASE:	12" GRAVEL BORROW, TYPE b (COMPACTED)
PROPOSED CE	EMENT CONCRETE SIDEWALK / WHEELCHAIR RAMP / PRIVATE WALKWAY
SURFACE:	4" CEMENT CONCRETE (4000 PSI, 3/4", 610, AIR-ENTRAINED)
BASE:	8" GRAVEL BORROW, TYPE b (COMPACTED)
PROPOSED CE	EMENT CONCRETE DRIVEWAY APRONS
SURFACE:	6" CEMENT CONCRETE (4000 PSI, 3/4", 610, AIR-ENTRAINED)
BASE:	8" GRAVEL BORROW, TYPE b (COMPACTED)
PROPOSED HO	OT MIX ASPHALT (HMA) SIDEWALK
SURFACE:	1" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER 1½" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE:	8" GRAVEL BORROW, TYPE b (COMPACTED)
PROPOSED HO SURFACE:	DT MIX ASPHALT (HMA) DRIVEWAY 1½" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE:	8" GRAVEL BORROW, TYPE b (COMPACTED)
PROPOSED HO	OT MIX ASPHALT (HMA) DRIVEWAY (TO MATCH EXISTING)
SURFACE:	1½" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE:	EXCAVATE EXISTING HMA TO SAWCUT FINE GRADE AND COMPACT EXISTING BASE AND/OR ADD GRAVEL BORROW, TYPE b AS REQUIRED TO MATCH PROPOSED GRADES
NEW HMA MUL	TI-USE PATH
SURFACE:	1½" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER 2½" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE:	8" GRAVEL BORROW, TYPE b (COMPACTED)
HMA MULTI-US	E PATH RESURFACING
SURFACE:	1½" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER 2½" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)
BASE:	EXCAVATE EXISTING HMA TO SAWCUT FINE GRADE AND COMPACT EXISTING BASE AND/OR ADD GRAVEL BORROW, TYPE b AS REQUIRED TO MATCH PROPOSED GRADES

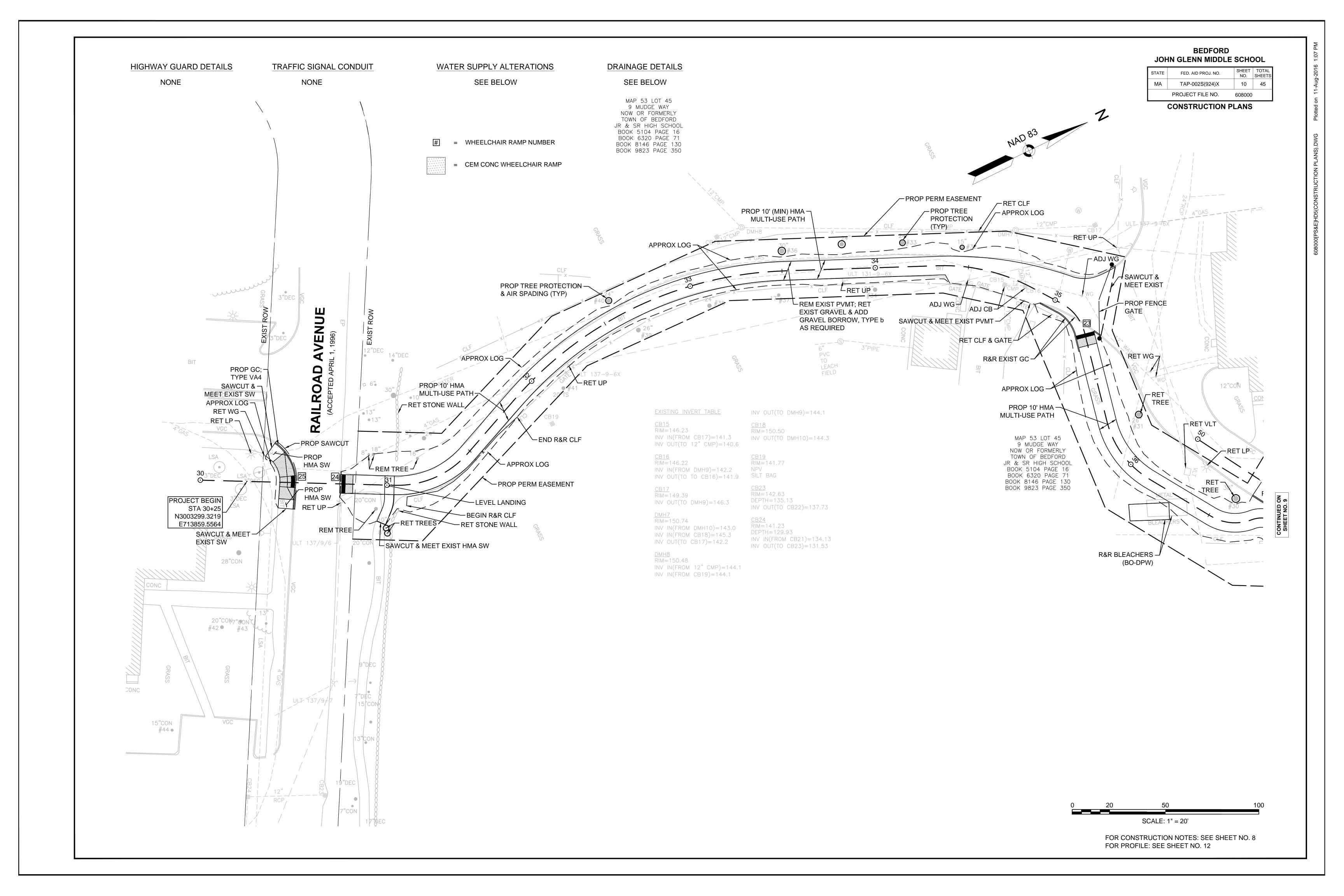


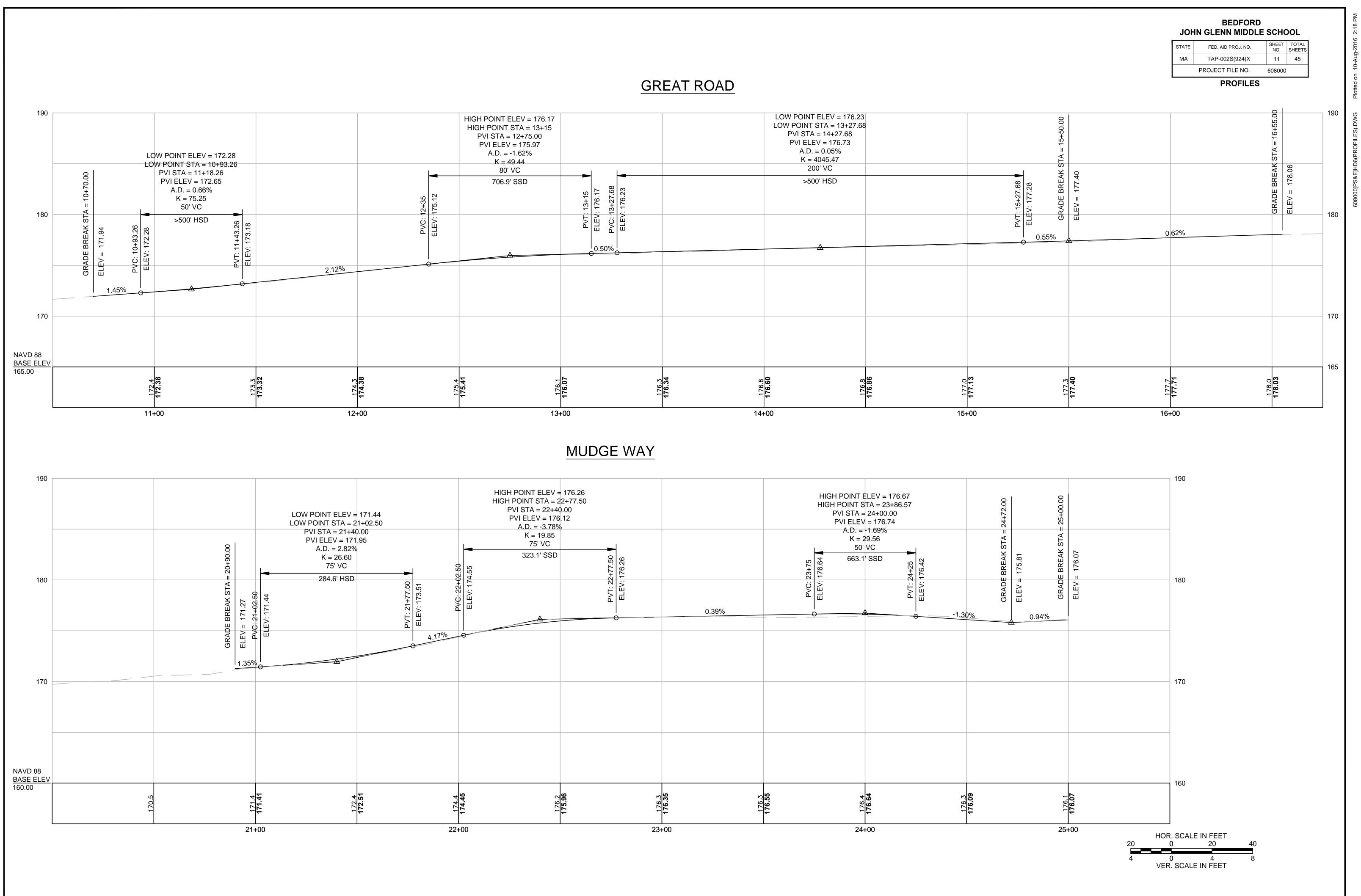
NO.	TYPE	STATION	RIM. ELEV	INV. ELEV. IN	INV. ELEV. OUT	
1	PROP CB	13+21	175.90	-	172.90	
2	PROP DMH	13+31	176.15	172.70 (FROM 1) 171.25 (FROM 5)	171.15	
3	PROP CB	13+28	175.55	-	171.60	
4	PROP DMH	13+34	175.90	170.95 (FROM 2) 171.40 (FROM 3)	170.85	
5	PROP DMH	15+56	177.20	173.90 (FROM 6) 173.70 (FROM 7)	173.60	
6	PROP CB	15+80	177.05	-	174.05	
7	PROP CB	15+59	177.00	-	174.00	E



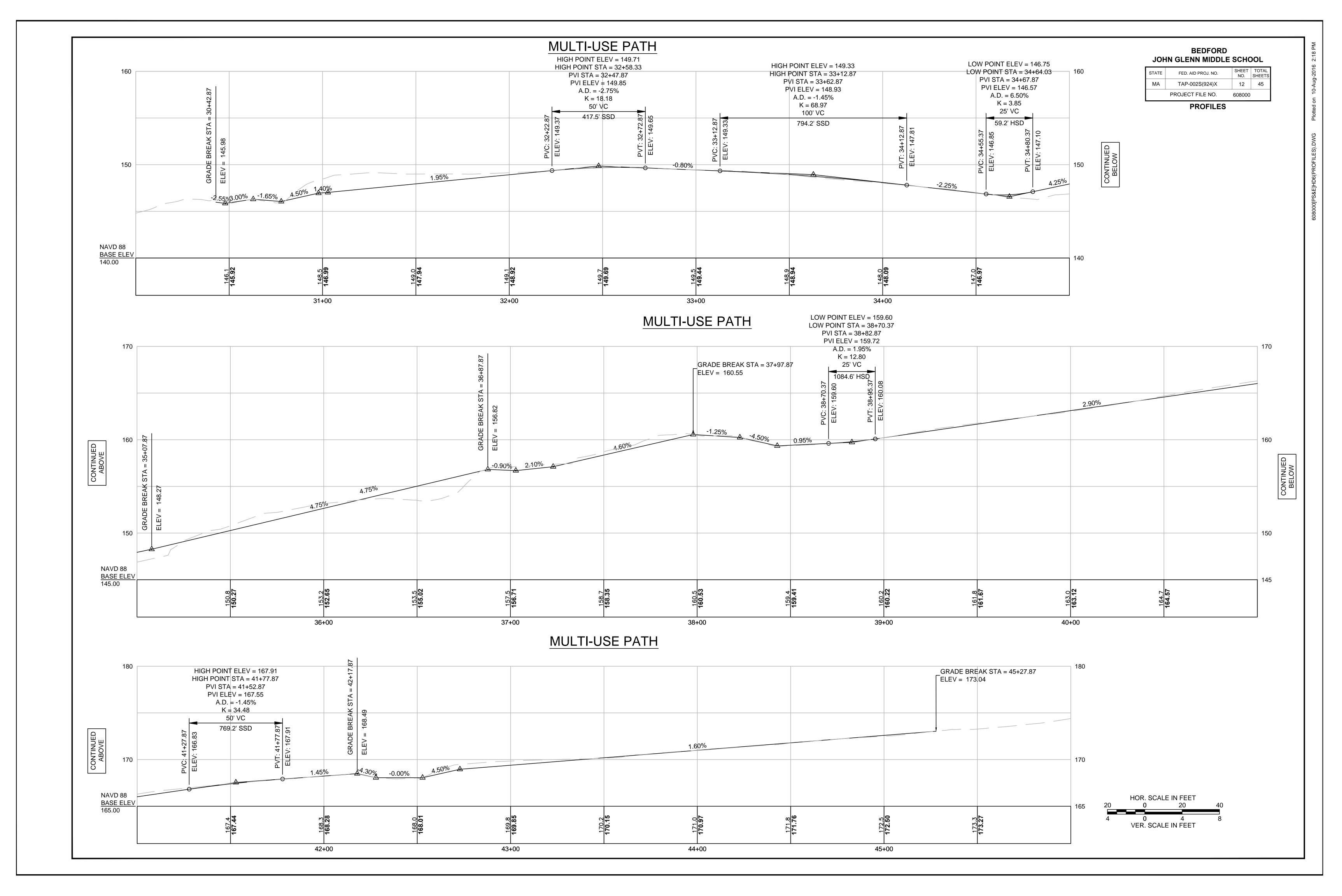


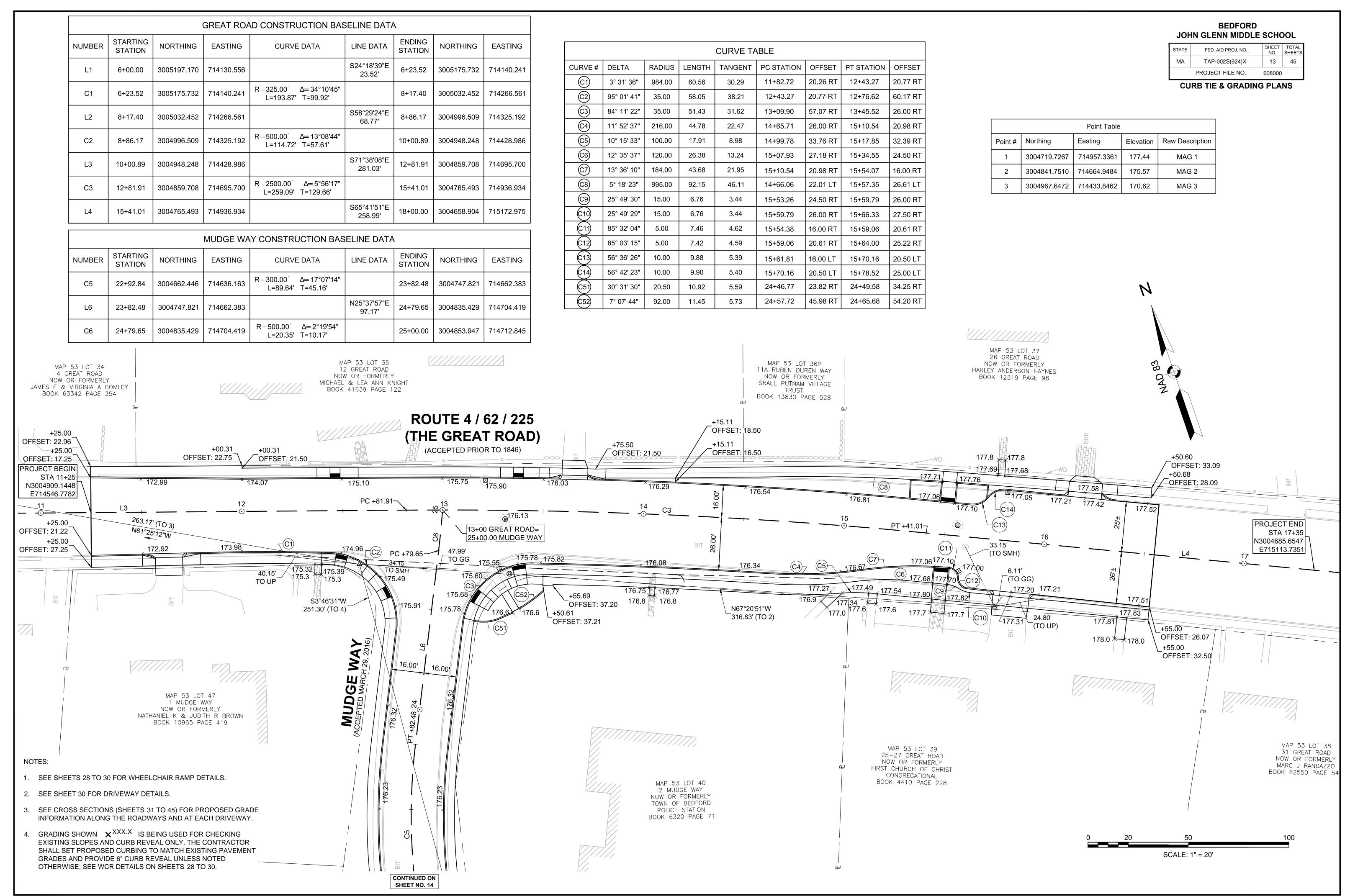
PROPOSED PLANTING TABLE						
SYMBOL	QTY	COMMENTS				
	2	ACER PSEUDO- PLATANUS	SYCAMORE MAPLE	2.5-3 INCH CALIPER	-	





	HIGH POINT ELEV = HIGH POINT STA = 2 PVI STA = 22+40 PVI ELEV = 176 A.D. = -3.78%	2+77.50 0.00 .12					HIGH POINT E HIGH POINT S PVI STA = PVI ELEV	TA = 23+86.57 24+00.00 = 176.74	
DV/C: 22+02 50	K = 19.85 75' VC 323.1' SSD		ELEV: 176.26			PVC: 23+75	A.D. = - K = 2 50' 49.9021	9.56 VC	ELEV: 176.42
á		c	)	0.39%		C	<u> </u>		 Ə
4.17%	9								
174.4	<b>174.45</b> 176.2	175.96	176.3	176.35	176.3 176.55		176.4	176.64	
22+	+00		23-	+00			24+	-00	





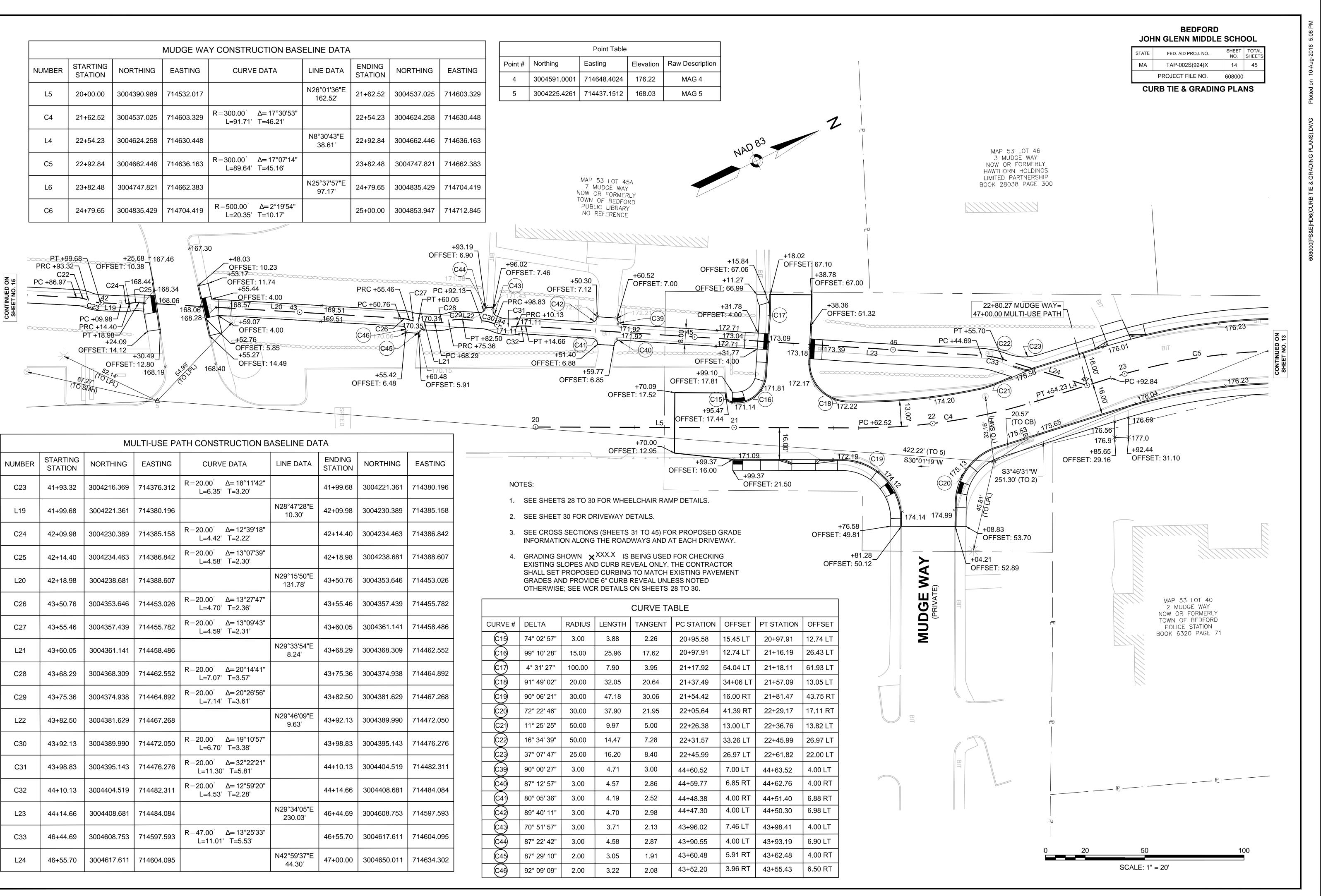
NORTHING	EASTING
3005175.732	714140.241
3005032.452	714266.561
3004996.509	714325.192
3004948.248	714428.986
3004859.708	714695.700
3004765.493	714936.934
3004658.904	715172.975
NORTHING	EASTING
3004747.821	714662.383
3004835.429	714704.419
3004853.947	714712.845

<b></b>												
CURVE #	DELTA	RADIUS	LENGTH	TANGENT	PC STATION	OFFSET	PT STATION	OFFSET				
C1	3° 31' 36"	984.00	60.56	30.29	11+82.72	20.26 RT	12+43.27	20.77 RT				
C2	95° 01' 41"	35.00	58.05	38.21	12+43.27	20.77 RT	12+76.62	60.17 RT				
C3	84° 11' 22"	35.00	51.43	31.62	13+09.90	57.07 RT	13+45.52	26.00 RT				
C4)	11° 52' 37"	216.00	44.78	22.47	14+65.71	26.00 RT	15+10.54	20.98 RT				
C5	10° 15' 33"	100.00	17.91	8.98	14+99.78	33.76 RT	15+17.85	32.39 RT				
<u>C6</u>	12° 35' 37"         120.00         26.38		13.24	15+07.93	27.18 RT	15+34.55	24.50 RT					
C7	13° 36' 10"	184.00	43.68	21.95	15+10.54	20.98 RT	15+54.07	16.00 RT				
(C8)	5° 18' 23"	995.00	92.15	46.11	14+66.06	22.01 LT	15+57.35	26.61 LT				
(C9)	25° 49' 30"	15.00	6.76	3.44	15+53.26	24.50 RT	15+59.79	26.00 RT				
C10	25° 49' 29"	15.00	6.76	3.44	15+59.79	26.00 RT	15+66.33	27.50 RT				
C11	85° 32' 04"	5.00	7.46	4.62	15+54.38	16.00 RT	15+59.06	20.61 RT				
C12	85° 03' 15"	5.00	7.42	4.59	15+59.06	20.61 RT	15+64.00	25.22 RT				
C13	56° 36' 26"	10.00	9.88	5.39	15+61.81	16.00 LT	15+70.16	20.50 LT				
C14)	56° 42' 23"	10.00	9.90	5.40	15+70.16	20.50 LT	15+78.52	25.00 LT				
C51	30° 31' 30"	20.50	10.92	5.59	24+46.77	23.82 RT	24+49.58	34.25 RT				
C52	C52         7° 07' 44"         92.00         11.45				24+57.72	45.98 RT	24+65.68	54.20 RT				

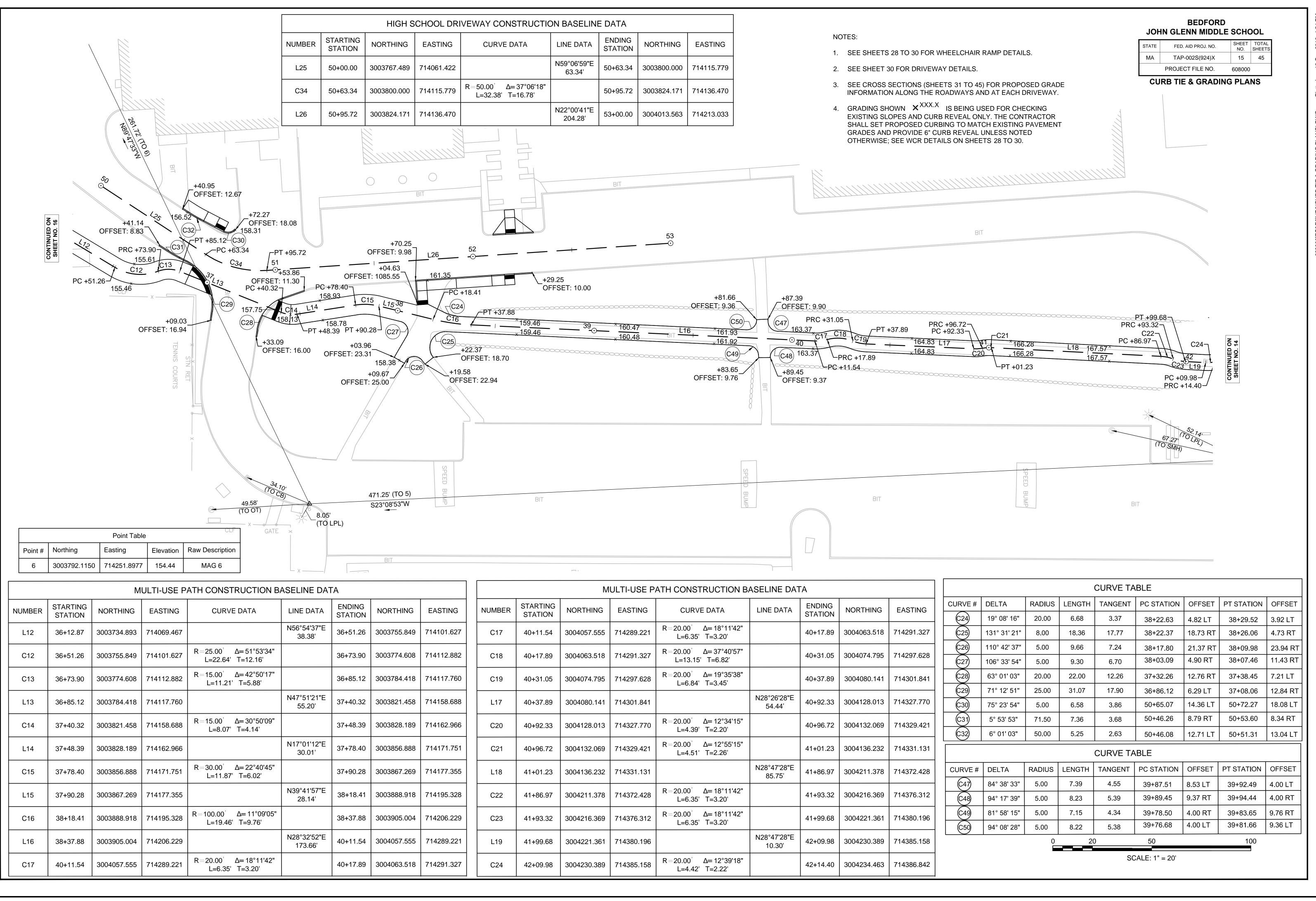
JUF	JOHN GLENN MIDDLE SCHOOL											
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS									
MA	TAP-002S(924)X	13	45									
	PROJECT FILE NO.	608000										

		Point Table		
Point #	Northing	Easting	Elevation	Raw Description
1	3004719.7267	714957.3361	177.44	MAG 1
2	3004841.7510	714664.9484	175.57	MAG 2
3	3004967.6472	714433.8462	170.62	MAG 3

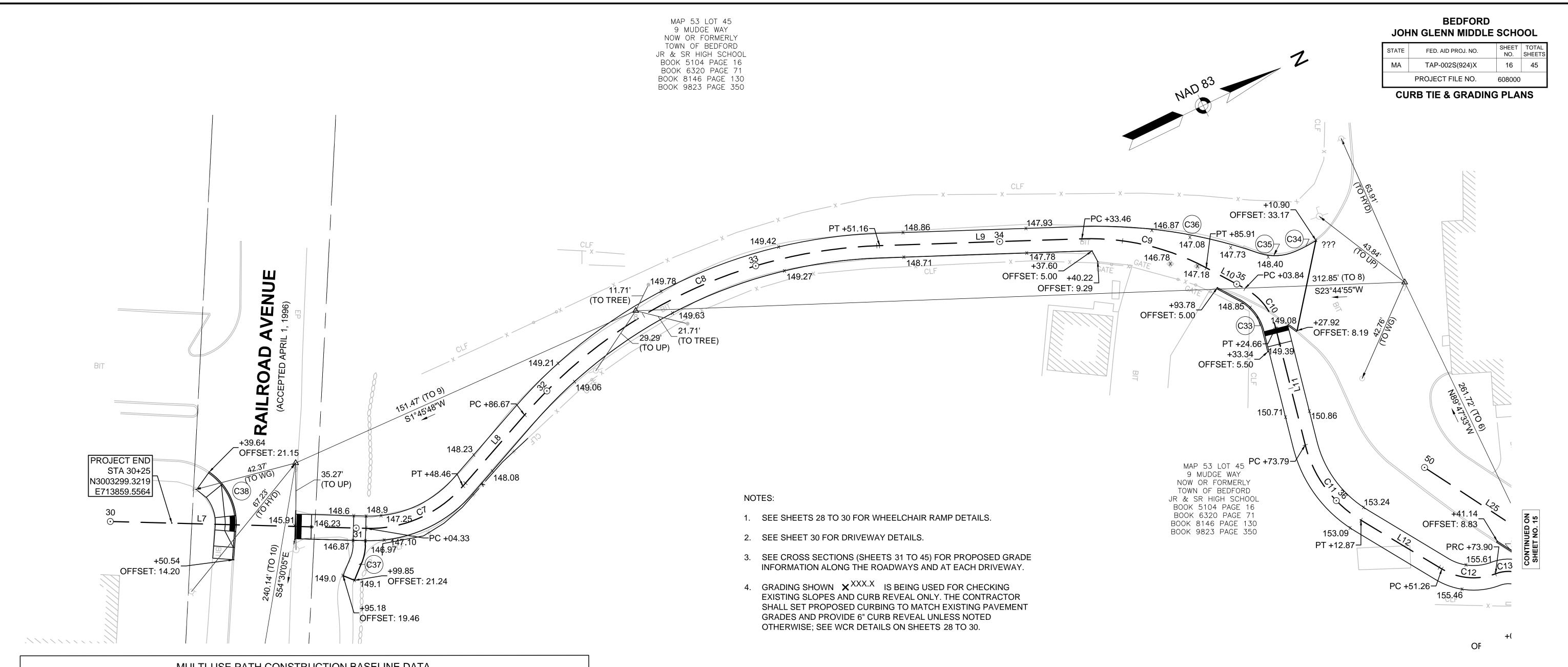
			MUDGE WA	Y CONSTRUCTION BAS	ELINE DATA		
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NOR
L5	20+00.00	3004390.989	714532.017		N26°01'36"E 162.52'	21+62.52	30045
C4	21+62.52	3004537.025	714603.329	R=300.00 [°] Δ <del>=</del> 17°30'53" L=91.71' T=46.21'		22+54.23	30046
L4	22+54.23	3004624.258	714630.448		N8°30'43"E 38.61'	22+92.84	30046
C5	22+92.84	3004662.446	714636.163	R=300.00 [°] Δ= 17°07'14" L=89.64' T=45.16'		23+82.48	30047
L6	23+82.48	3004747.821	714662.383		N25°37'57"E 97.17'	24+79.65	30048
C6	24+79.65	3004835.429	714704.419	R=500.00 [°] Δ=2°19'54" L=20.35' T=10.17'		25+00.00	30048



		MU	JLTI-USE PA	TH CONSTRUCTION B	ASELINE DA	ТА	
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING
C23	41+93.32	3004216.369	714376.312	R=20.00 [°] Δ= 18°11'42" L=6.35' T=3.20'		41+99.68	3004221.361
L19	41+99.68	3004221.361	714380.196		N28°47'28"E 10.30'	42+09.98	3004230.389
C24	42+09.98	3004230.389	714385.158	R=20.00 [°] Δ= 12°39'18" L=4.42' T=2.22'		42+14.40	3004234.463
C25	42+14.40	3004234.463	714386.842	R=20.00 [°] Δ=13°07'39" L=4.58' T=2.30'		42+18.98	3004238.681
L20	42+18.98	3004238.681	714388.607		N29°15'50"E 131.78'	43+50.76	3004353.646
C26	43+50.76	3004353.646	714453.026	R=20.00 [°] Δ= 13°27'47" L=4.70' T=2.36'		43+55.46	3004357.439
C27	43+55.46	3004357.439	714455.782	R=20.00 [°] Δ= 13°09'43" L=4.59' T=2.31'		43+60.05	3004361.141
L21	43+60.05	3004361.141	714458.486		N29°33'54"E 8.24'	43+68.29	3004368.309
C28	43+68.29	3004368.309	714462.552	R=20.00 [°] Δ=20°14'41" L=7.07' T=3.57'		43+75.36	3004374.938
C29	43+75.36	3004374.938	714464.892	R=20.00 [°] Δ=20°26'56" L=7.14' T=3.61'		43+82.50	3004381.629
L22	43+82.50	3004381.629	714467.268		N29°46'09"E 9.63'	43+92.13	3004389.990
C30	43+92.13	3004389.990	714472.050	R=20.00 [°] Δ= 19°10'57" L=6.70' T=3.38'		43+98.83	3004395.143
C31	43+98.83	3004395.143	714476.276	R=20.00 [°] Δ=32°22'21" L=11.30' T=5.81'		44+10.13	3004404.519
C32	44+10.13	3004404.519	714482.311	R=20.00 [°] Δ= 12°59'20" L=4.53' T=2.28'		44+14.66	3004408.681
L23	44+14.66	3004408.681	714484.084		N29°34'05"E 230.03'	46+44.69	3004608.753
C33	46+44.69	3004608.753	714597.593	R=47.00 [°] Δ= 13°25'33" L=11.01' T=5.53'		46+55.70	3004617.611
L24	46+55.70	3004617.611	714604.095		N42°59'37"E 44.30'	47+00.00	3004650.011



				М	ULTI-USE P	ATH CONSTRUCTION B	ASELINE DAT	A		
EASTING		NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTII
714101.627		C17	40+11.54	3004057.555	714289.221	R=20.00 [°] Δ= 18°11'42" L=6.35' T=3.20'		40+17.89	3004063.518	714291.
714112.882		C18	40+17.89	3004063.518	714291.327	R=20.00 [°] Δ=37°40'57" L=13.15' T=6.82'		40+31.05	3004074.795	714297.
714117.760		C19	40+31.05	3004074.795	714297.628	R=20.00 [°] Δ= 19°35'38" L=6.84' T=3.45'		40+37.89	3004080.141	714301
714158.688		L17	40+37.89	3004080.141	714301.841		N28°26'28"E 54.44'	40+92.33	3004128.013	714327.
714162.966		C20	40+92.33	3004128.013	714327.770	R=20.00 [°] Δ= 12°34'15" L=4.39' T=2.20'		40+96.72	3004132.069	714329
714171.751		C21	40+96.72	3004132.069	714329.421	R=20.00 [°] Δ= 12°55'15" L=4.51' T=2.26'		41+01.23	3004136.232	714331
714177.355		L18	41+01.23	3004136.232	714331.131		N28°47'28"E 85.75'	41+86.97	3004211.378	714372.
714195.328		C22	41+86.97	3004211.378	714372.428	R=20.00 [°] Δ= 18°11'42" L=6.35' T=3.20'		41+93.32	3004216.369	714376.
714206.229		C23	41+93.32	3004216.369	714376.312	R=20.00 [°] Δ= 18°11'42" L=6.35' T=3.20'		41+99.68	3004221.361	714380.
714289.221		L19	41+99.68	3004221.361	714380.196		N28°47'28"E 10.30'	42+09.98	3004230.389	714385
714291.327		C24	42+09.98	3004230.389	714385.158	R=20.00 [°] Δ= 12°39'18" L=4.42' T=2.22'		42+14.40	3004234.463	714386
	-									

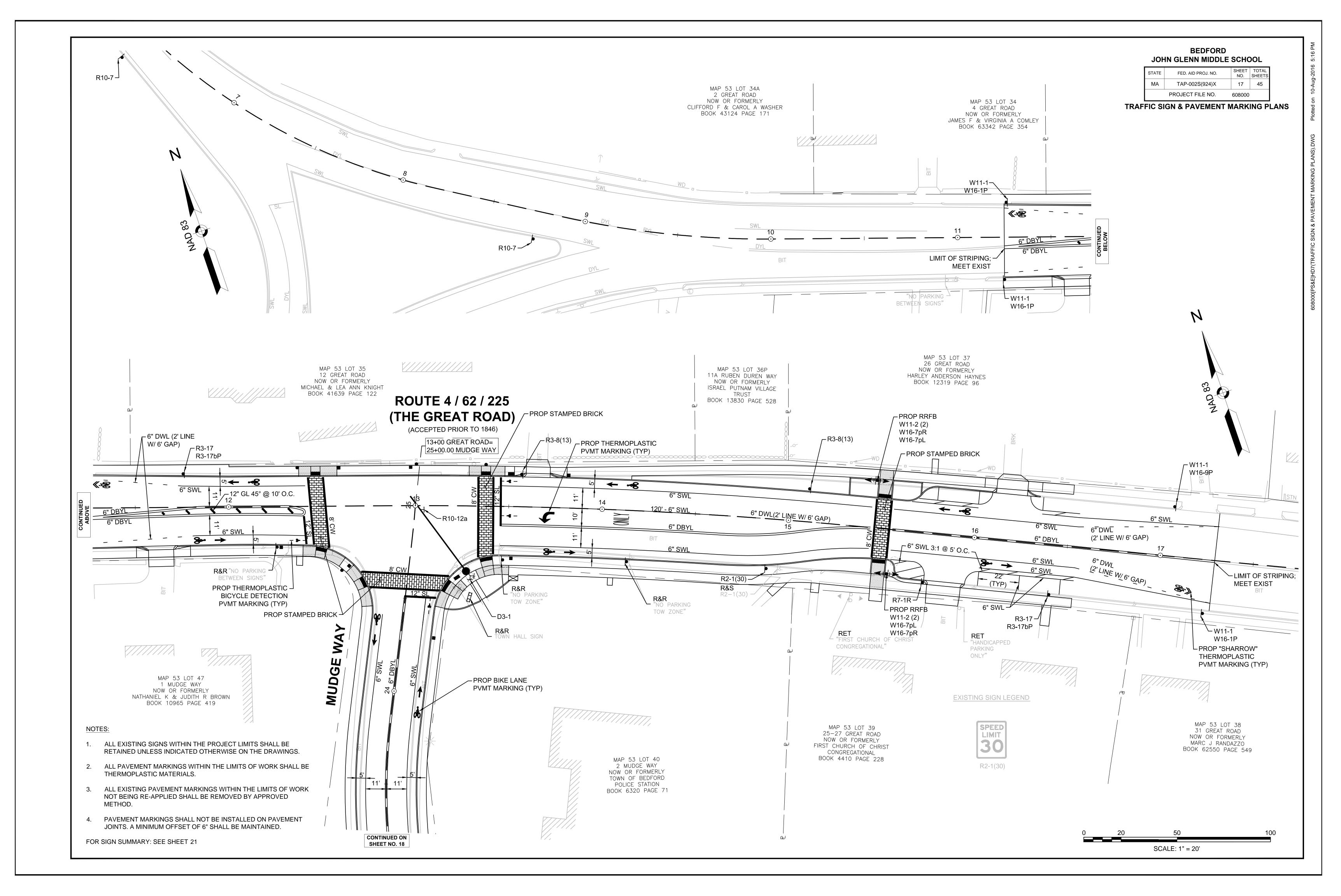


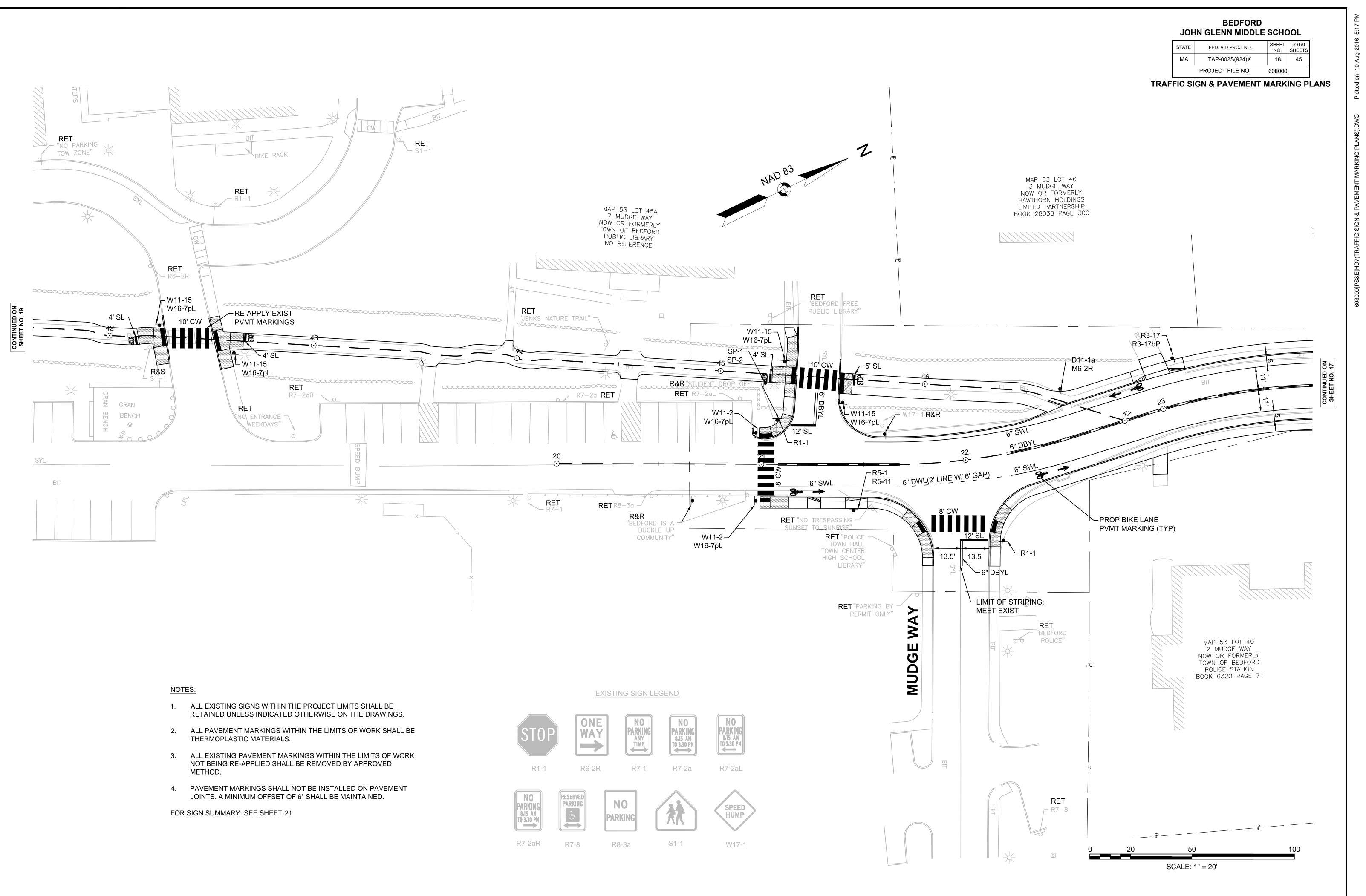
		Μ	ULTI-USE P	ATH CONSTRUCTION B	ASELINE DAT	ΓA		
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTIN
L7	30+00.00	3003277.126	713848.053		N27°23'49"E 104.33'	31+04.33	3003369.751	713896.0
C7	31+04.33	3003369.751	713896.058	R=50.00 [°] Δ=50°34'45" L=44.14' T=23.62'		31+48.46	3003412.441	713897.6
L8	31+48.46	3003412.441	713897.629		N23°10'56"W 38.21'	31+86.67	3003447.563	713882.
C8	31+86.67	3003447.563	713882.589	R=200.00 [°] Δ=47°07'19" L=164.49' T=87.22'		33+51.16	3003607.449	713883.6
L9	33+51.16	3003607.449	713883.646		N23°56'23"E 82.30'	34+33.46	3003682.671	713917.
C9	34+33.46	3003682.671	713917.042	R=100.00 [°] Δ=30°03'05" L=52.45' T=26.84'		34+85.91	3003722.986	713949.
L10	34+85.91	3003722.986	713949.648		N53°59'28"E 17.93'	35+03.84	3003733.529	713964.
C10	35+03.84	3003733.529	713964.155	R=25.00 [°]		35+24.66	3003737.786	713983.
L11	35+24.66	3003737.786	713983.923		S78°17'57"E 49.13'	35+73.79	3003727.823	714032.
C11	35+73.79	3003727.823	714032.029	R=50.00 [°] Δ=44°47'26" L=39.09' T=20.60'		36+12.87	3003734.893	714069.4
L12	36+12.87	3003734.893	714069.467		N56°54'37"E 38.38'	36+51.26	3003755.849	714101.0
C12	36+51.26	3003755.849	714101.627	R=25.00 [°] Δ= 51°53'34" L=22.64' T=12.16'		36+73.90	3003774.608	714112.8
C13	36+73.90	3003774.608	714112.882	R=15.00 [°] Δ=42°50'17" L=11.21' T=5.88'		36+85.12	3003784.418	714117.

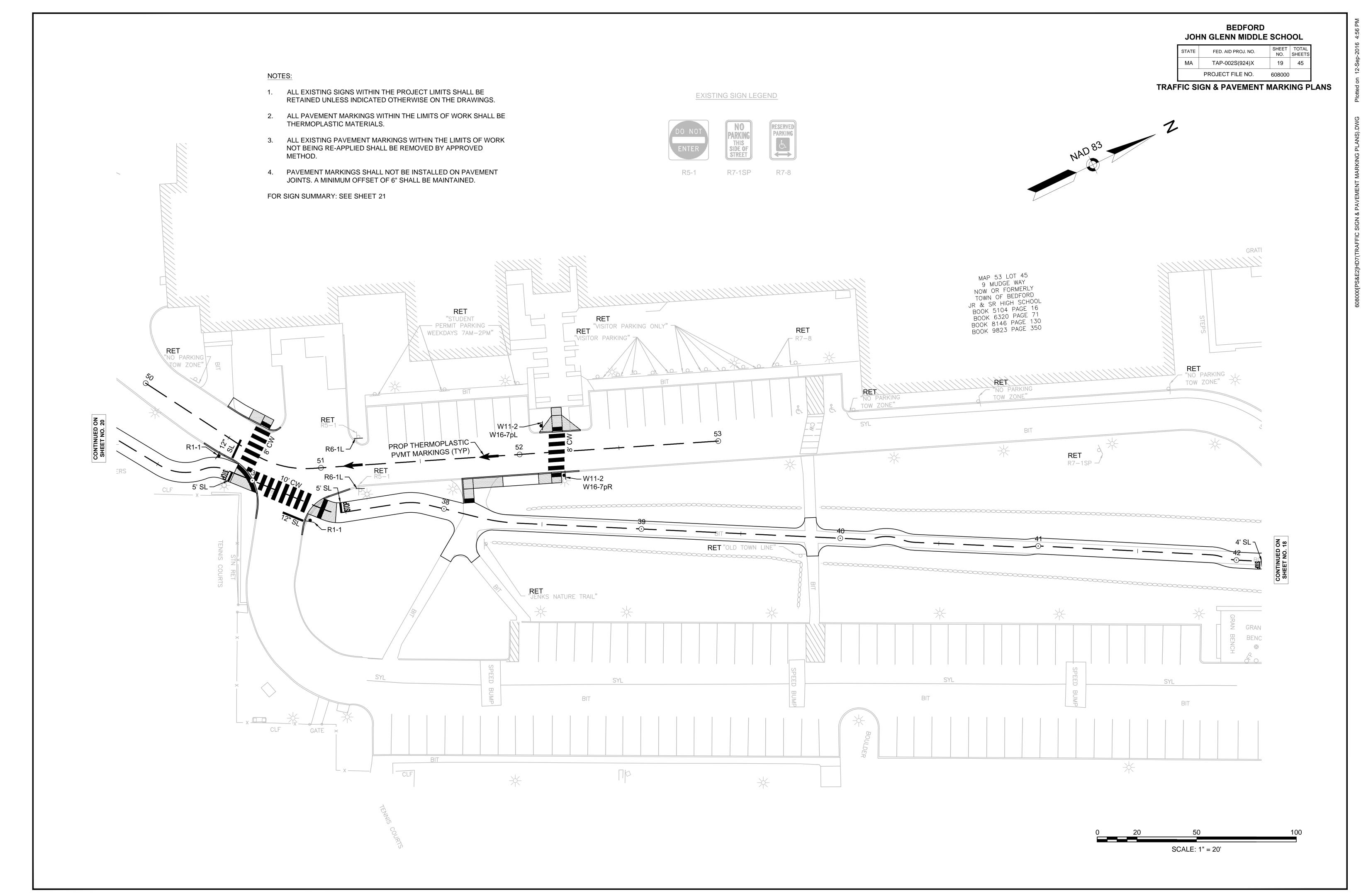
	CURVE TABLE											
CURVE #	DELTA	RADIUS	LENGTH	TANGENT	PC STATION	OFFSET	PT STATION	OFFSET				
<b>C</b> 33	47° 34' 03"	20.00	16.60	8.81	35+03.84	5.00 RT	35+24.60	5.00 RT				
C34)	12° 20' 51"	50.00	10.78	5.41	35+09.13	23.09 LT	35+10.90	33.17 LT				
C35	40° 01' 22"	20.00	13.97	7.28	35+01.97	15.36 LT	35+09.13	23.09 LT				
C36	20° 55' 48"	200.00	73.06	36.94	34+33.68	5.00 LT	35+01.97	15.36 LT				
C37	C37 20° 55' 18" 20.00 7.30				31+02.58	14.12 RT	31+03.89	6.98 LT				
C38	60° 15' 09"	25.00	26.29	14.51	30+39.64	21.14 LT	30+51.17	1.15 RT				

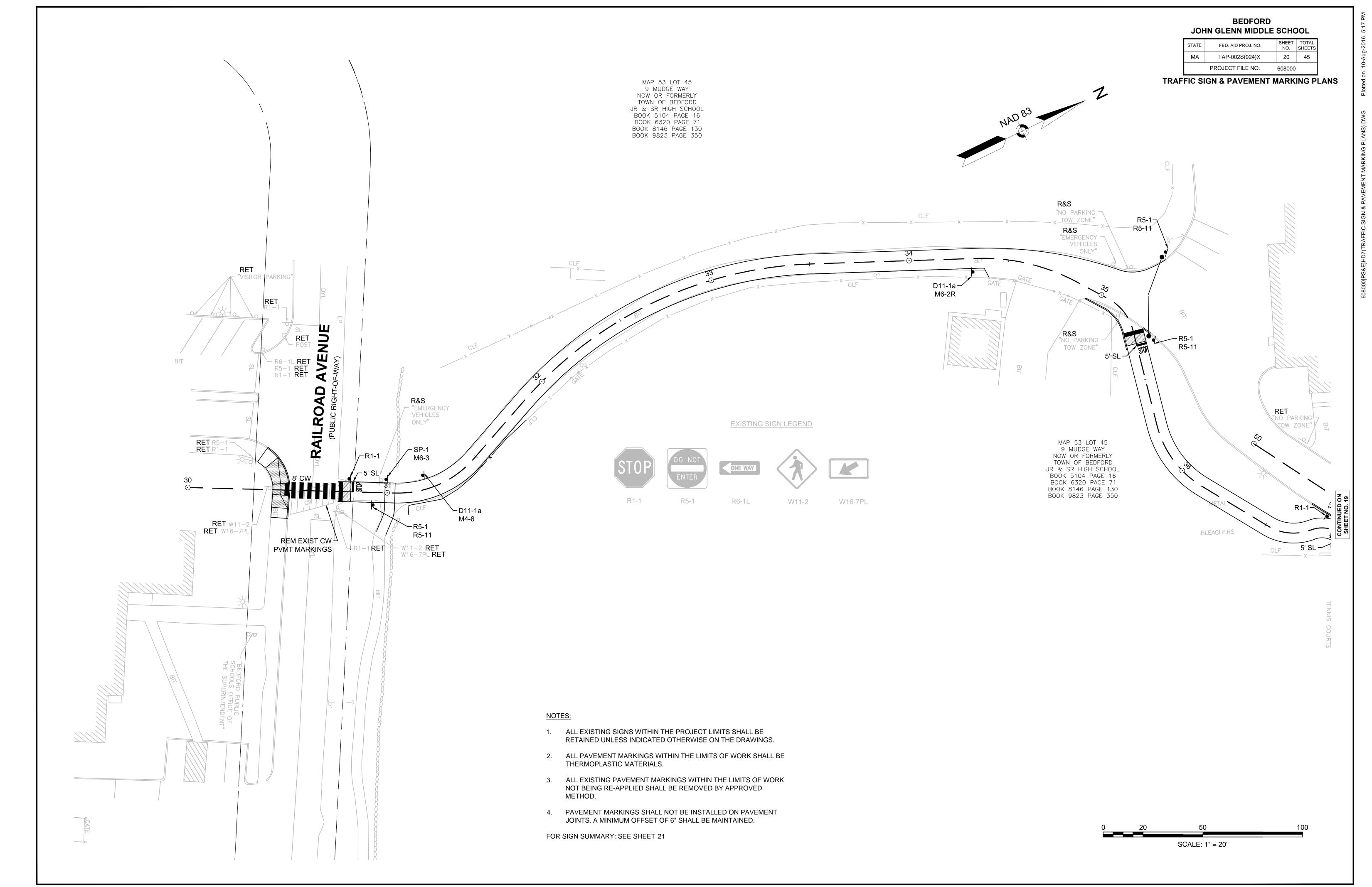
		Point Table		
Point #	Northing	Easting	Elevation	Raw Description
7	3003793.0632	713990.1800	150.69	MAG 7
8	3003506.7093	713864.1894	149.73	MAG 8
9	3003355.3081	713859.5284	146.66	MAG 9
10	3003215.8647	714055.0312	142.39	MAG 10

SCALE: 1" = 20'









					TRAF	FIC SIGN	I SUMMARY	T					1
IDENTIFICATION NUMBER	SIZE OF SIG	GN (INCHES)	LEGEND	TEXT DI LETTER HEIGHT	MENSIONS (IN VERTICAL SPACING	ICHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	BACKGROUND		BORDER	NUMBER OF P-5 POSTS REQUIRED	UNIT AREA (S.F.)	AREA I SQUAR FEET
D3-1	30	12	SEE BELOW	6 / 4.5	3 / 4.5 6 / 4.5 3 / 3	N/A	1	RED	WHITE	WHITE	0 MOUNT ON MAST ARM FDN		IDER ITE 374.
D3-2	33	12	SEE BELOW	6 / 4.5	3 / 4.5 6 / 4.5 3 / 3	N/A	1	RED	WHITE	WHITE	0 MOUNT ON MAST ARM FDN		IDER ITE 374.
D11-1a	18	18	670		1		3	GREEN	WHITE	WHITE	3	2.25	6.75
M4-6	12	6	END		4		1	GREEN	WHITE	WHITE	0 MOUNT W/ D11-1a	0.50	0.50
M6-2R	12	6			0		2	WHITE	BLACK	BLACK	0 MOUNT W/ SP-1, W/ D11-1a	0.50	1.00
M6-3	12	6					1	WHITE	BLACK	BLACK	0 MOUNT W/ SP-1	0.50	0.50
R1-1	30	30	STOP				5	RED	WHITE	WHITE	5	6.25	31.25
R2-1(30)	30	36	SPEED LIMIT 30				1	WHITE	BLACK	BLACK	1	7.50	7.50
R3-8(13)	30	30					2	WHITE	BLACK	BLACK	2	6.25	12.50
R3-17	30	24	BIKE LANE				3	WHITE	BLACK	BLACK	3	5.00	15.00
R3-17bP	24	8	ENDS				3	WHITE	BLACK	BLACK	0 MOUNT W/ R3-17	1.33	4.00
R5-1	30	30	DO NOT ENTER				4	WHITE	RED	WHITE	4	6.25	25.00
R5-11	30	24	AUTHORIZED VEHICLES ONLY				4	WHITE	BLACK	BLACK	0 MOUNT W/ R5-1	5.00	20.00
R6-1L	36	12	ONE WAY				2	BLACK	WHITE	WHITE	0 MOUNT W/ EXIST SIGN	3.00	6.00
R7-1R	12	18	NO PARKING ANY TIME				1	WHITE	BLACK	BLACK	1	1.50	1.50
R10-7	24	30	DO NOT BLOCK INTERSECTION				2	WHITE	BLACK	BLACK	2	5.00	10.00
R10-3e	9	15			V		5	WHITE	BLACK	BLACK	0 MOUNT ON TS POST & MAST ARM FDN	PAID UN 8	IDER ITE 15.1
R10-12a	30	36	LEFT TURN YIELD ON FLASHING	MASSD	OT STANDARI	D SIGN	1	WHITE	BLACK	BLACK	0 MOUNT ON MAST ARM	7.50	7.50

					TRAF	FIC SIGN	ISUMMARY						
	SIZE OF SIC	GN (INCHES)		TEXT DIMENSIONS (INCHES)		TEXT DIMENSIONS (INCHES)			COLOR		NUMBER OF	UNIT	AREA IN
IDENTIFICATION NUMBER	WIDTH	HEIGHT	LEGEND	LETTER HEIGHT			SIGNS REQUIRED	BACKGROUND	LEGEND	BORDER	P-5 POSTS REQUIRED	AREA (S.F.)	SQUARE FEET
W11-1	30	30			2		4	FL. YELLOW- GREEN	BLACK	BLACK	4	6.25	25.00
W11-2	30	30					8	FL. YELLOW- GREEN	BLACK	BLACK	4 MOUNT 4 W/ RRFB	6.25	50.00
W11-15	18	18	AND NO				4	FL. YELLOW- GREEN	BLACK	BLACK	4	2.25	9.00
W16-1P	18	24	SHARE THE ROAD				3	FL. YELLOW- GREEN	BLACK	BLACK	0 MOUNT W/ W11-1	3.00	9.00
W16-7pL	24	12			1		9	FL. YELLOW- GREEN	BLACK	BLACK	0 MOUNT 2 W/ RRFB, 3 W/ W11-2, 4 W/ W11-15	2.00	18.00
W16-7pR	24	12					3	FL. YELLOW- GREEN	BLACK	BLACK	0 MOUNT 2 W/ RRFB, 1 W/ W11-2	2.00	6.00
W16-9P	24	12	AHEAD		V		1	FL. YELLOW- GREEN	BLACK	BLACK	0 MOUNT 1 W/ S1-1, 3 W/ W11-2	2.00	2.00
SP-1	12	18	WALK YOUR BIKE	SPECIAL SIGN (SEE BELOW)			2	WHITE	BLACK	BLACK	2	1.50	3.00
SP-2	12	6			PECIAL SIGN SEE BELOW)		1	WHITE	BLACK	BLACK	0 MOUNT W/ SP-1	0.50	0.50



SP-1

NOTES:

1.	SEE 2009 MANUAL ON UNIFORM TRA
2	FLUORESCENT YELLOW-GREEN BAC
3.	SEE 2009 MANUAL ON UNIFORM TRA
4.	THE MINIMUM MOUNTING HEIGHT O

ALL SIGN ASSEMBLY POSTS SHALL

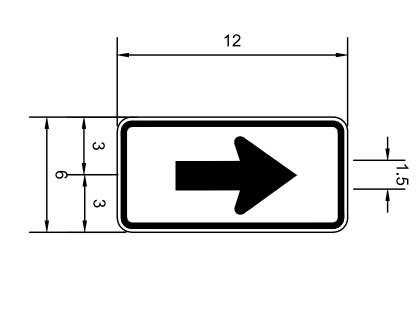
5. ALL SIGN ASSEMBLY POSTS SHALL BE P-5 POSTS AND SHALL BE INSTALLED IN ACCORDANCE WITH SUBSECTION 840.60 OF THE MASSDOT SUPPLEMENTAL SPECIFICATIONS, DATED JULY 1, 2015.

### BEDFORD JOHN GLENN MIDDLE SCHOOL

JUF		зспс	
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTA SHEE

	MA	TAP-002S(924)X	21	45
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PROJECT FILE NO.	608000
TRAFFIC SIGN SU	MMARY



SP-2



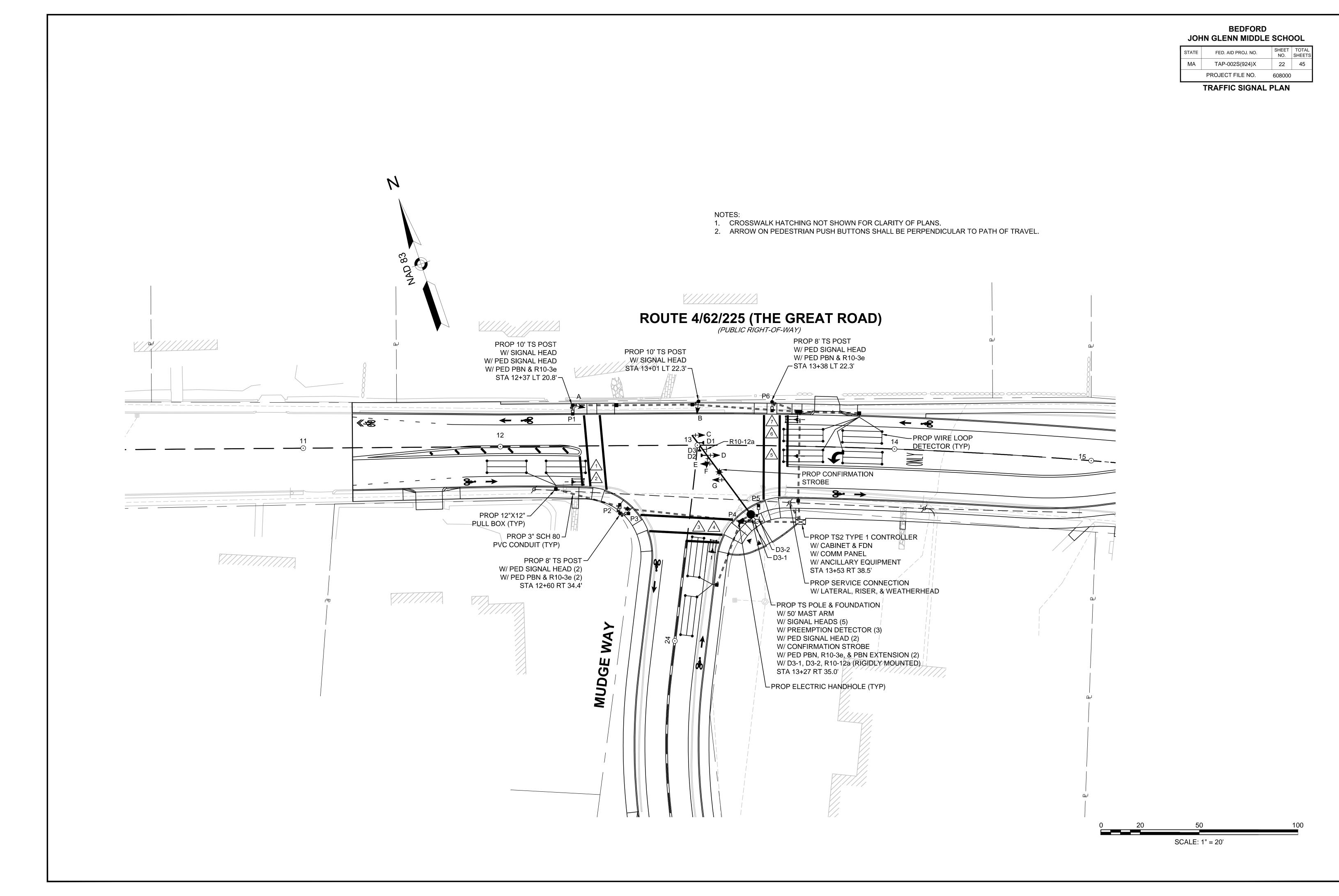


RAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS FOR TEXT AND LEGEND DIMENSIONS.

ACKGROUND W/ BLACK LEGEND & BORDER

RAFFIC CONTROL DEVICES FOR GUIDE SIGNS AND PLAQUES FOR BICYCLE FACILITIES

THE MINIMUM MOUNTING HEIGHT OF POST-MOUNTED SIGNS, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF CURB OR SIDEWALK, OR THE ELEVATION OF THE NEAR EDGE OF TRAVEL WAY, SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED.



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	TAP-002S(924)X	22	45
	PROJECT FILE NO.	608000	

			SEG			ING CHAR	RT FOR					İ				~~		~~								PRIORITY	
			N	Ø1	1	Ø2		Ø3		Ø	4	Ø5		Ø6		Ø7		Ø8	Ø9 (PE	:U)			ØA - D1	PREEMPT	I ØB - D2 P	REEMPT ØC	C - D3
GRE		ROUTE 4/225) @ GE WAY					F				$\vdash$			-						<b>≜</b>			-			F L	
(BED		SSACHUSETTS)			•			NOT US	SED			NOT US	ED	FY	A NO	T USED	NO	T USED					FYA				
				-7	Υ	7	$\forall$			-7	$\gamma$		-	丸ト	A							-7	$\forall$	$\overline{\mathbf{T}}$	$\forall$	<u></u>	$\gamma$
																					FLASHING	+ 1		•			
PPRO	ACH	DIRECTION	HOUSING	1 2	3	4 5	6	7 8	9	10 1	1 12	13 14	15 16	17	18 19	20 2	1 22	23 24	25 26	27	OPERATION	28 29	30	31 32	2 33	34 35	36
	ROAD	EB	E,G	R R		G Y	R		<u> • • • • • • • • • • • • • • • • • • •</u>	R F	<u>₹ R</u>		R	R	R	· · · · · · · · · · · · · · · · · · ·				R	FY	R R		G Y	<u> </u>	R R	R
REAT	ROAD ROAD	WB-LT WB-TH	D A,C	-G- (+Y) R R	– <del>(</del> R–	<del>∢R-</del> <del>∢</del> R- R R	<b>€</b> R− R	· · · · · · · · · · · · · · · · · · ·		<del>(</del> R- <del>(</del> F	<u>R-</u> ₹ R-	·····	······· <del>{</del> FY-			<del></del>	· · · · · · · · · · · · · · ·	·····		€R- R	<del>(</del> FY <del>-</del> FY	<del>(</del> FY <del>-</del> (Y) G Y		<del>(</del> R- <del>(</del> R R R		<del>R- (</del> R-	<del>(</del> R- R
IUDGE		NB	B,F	R R		R R	R		· · · · · · · · · · · · · · · · · · ·	G N	/ R		C	R					••••••	R	FR	R R		R R		G Y	R
EDEST	RIAN	ALL	P1-P6	DW DW	V DW	DW DW	DW	· · · · · · · · · · · · · · · · · · ·		DW D	W DW		DW	/ DW	SW []	· · · · · · · · · · · · · · · · · · ·				/ DW	OUT	DW DV	V DW	DW DV	N DW [	DM DM	DW
IINIMU	M INTERVA	۱. ۱.		6		10				6		·····			·····	·····											
EHICLI	E EXTENSIO	ON		2		2		•••••		2					· · · · · · · · · · · · · · · · · · ·			·····	-		ς	*		*		*	
		OPERATION)	1)	20		40				15	_		60 					· · · · · · · · · · · · · · · · · · ·			ONLY						
	V CLEARAN	SAM-10AM / 3PM-7PM	1)	20 3.5	5	65 3.5		· · · · · · · · · · · · · · · · · · ·	<u>-  </u>	20 3	.5		90	3.5	· · · · · · · · · · · · · · · · · · ·	<del></del>	· · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			ACY O	3.5	5	3.	5	3.5	
ED CL	EARANCE				1.0		1.0	· · · · · · · · · · · · · · · · · · ·	<del> </del>		1.0				1.0	•••••					Ž Ш ()		1.0		1.0		1.0
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ETECT				NON-L		NON-LC		• • • • • • • • • • • • • • • • • •		NON-			·····	ON-LOC	< ·····	• • • • • • • • • • • • •			···			-		-		-	
																						Ø1&	Ø6	Ø	2	Ø4	
																							E EMERG				
ι <del>π</del>	1	DESCRIPTION 8Ø TS 2 TYPE 1 CC SERVICE CONNEC				MOUNTE		INET W/ FC		•	AINTED E	BLACK)															
VI # - - -	1 1 1 2	8Ø TS 2 TYPE 1 CC SERVICE CONNEC TS POLE W/ 50' MA 8' TS POST, W/ FO	TION (TYPE U ST ARM, TYP JNDATION (O	NDERGR 2, W/ F( NAMEN	ROUND) ' OUNDAT ITAL)	MOUNTEI W/ LATER/	D CABI AL, RIS	NET W/ FC		•	AINTED E	BLACK)															
-	1 1 1 2 2 6	8Ø TS 2 TYPE 1 CC SERVICE CONNEC TS POLE W/ 50' MA 8' TS POST, W/ FO 10' TS POST, W/ FO	TION (TYPE U ST ARM, TYP JNDATION (O DUNDATION (C	DERGR 2, W/ F NAMEN RNAMEI	ROUND) OUNDAT ITAL) NTAL)	MOUNTEI W/ LATER/ ION (ORN	D CABI AL, RIS AMEN	INET W/ FC SER & WEA TAL)	ATHERH	HEAD										PROF	POSED LOOF	DETECTC	DR DATA				
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01 -	7 2 1 <u>ION NOTES</u> OXES SHAL	8Ø TS 2 TYPE 1 CO SERVICE CONNEC TS POLE W/ 50' MA 8' TS POST, W/ FO 10' TS POST, W/ FO SIGNAL HEAD, 3-S SIGNAL HEAD, 3-S PEDESTRIAN SIGN PEDESTRIAN PUSI PEDESTRIAN PUSI WIRE LOOP DETEC WIRE LOOP DETEC WIRE LOOP DETEC TYPE C, 2-CHANNE EMERGENCY PRE- EMERGENCY PRE- EMERGENCY PRE- EMERGENCY PRE- EMERGENCY PRE- EMERGENCY PRE- EMERGENCY PRE- EMERGENCY PRE- SPARE B.I.U (BUS CONTROLLER PRO INTERSECTION CA 3" SCH. 80 PVC CC 12"X12" PULL BOX ELECTRIC HANDHO TS POLE/POST MC	TION (TYPE U ST ARM, TYP JNDATION (O DUNDATION (O DUNDATION (O ECTION, 12" L ECTION, 12" L ECTION, 12" L AL HEAD, 16" H BUTTON (VI H BUTTON EX CTORS (6'X20' CTORS - BICY EL CARD RAC EMPTION DE EMPTION DE EMPTION 2-C EMPTION 2-C EMPTION SYS EMPTION SYS EMPTIO	JDERGR 2, W/ F( NAMEN RNAMEN RNAMEI E.D. MO E.D. MO E.D. MO E.D. MO E.D. MO E.D. MO E.C.TOR I E.C.TOR I ECTOR I ECTOR I ANNEL TEM CH OBE (W NIT (MM I I I TEM CH OBE (W NIT (MM I I I I I I I I I I I I I I I I I I	ROUND) OUNDAT ITAL) NTAL) DULES, I DULES, I ODULE, Y) W/ R1 N BRACK JPOLE) S' QUADF DETECTO S AND DI OETECTO S AND DI PHASE HITE LEI U) - [CAF U) - [CAF U) - [CAF ASSIS HITE LEI U) - [CAF	MOUNTER W/LATER ION (ORN REFLECTI REFLECTI COUNTDO 0-3e AND I ET (PAINT RUPOLE-B DR AMPLIF ETECTOR SELECTOR SELECTOR SELECTOR SELECTOR OS / LOOP	D CABI AL, RIS AMEN VE BAQ VE BAQ VE BAQ VE BAQ DWN IN SIGN S ED BL CABLI RS FYA AQ PS / PRI S / PRI	INET W/ FO SER & WEA TAL) CKPLATES CKPLATES IDICATOR SADDLE (P ACK) I + 2 SPAR NG CCOMMOE E-EMPTION	ATHERH S, VISOI S, VISOI & AUDI PAINTEE ES) DATION N		ITED BL/ ITED BL/ RNING D				NO 1 2 3 4 5 6 7 LOOP D 1. TI 5 2. DI 3. DI 4. E/ 5. A O		NO. 1 2 1 2 3 3 4 DR NOTE STRUCTI ATIONS I ID EXTEN ME EFFE DP GROU CLE LOO TIVITY.	NO. 1 1 2 2 1 2 1 Sinon Shali UNLESS C NSION TIM CTIVE ON JP SHALL PS SHALL	CONFORM D'HERWISE INGS SHAL LY DURING BE SPLICE BE CONNE	TION/ 20' POLE 20' 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' POLE 20' 20' POLE 20' 20' 20' 20' 20' 20' 20' 20'	NO. OF TURNSC2-4-21-2-11-2-12-4-21-2-12-4-22-4-212-4-211-2-1101MASSACHUS D.NGLE PULL BO TO SEPARAT	PRESENCE PRESENCE PRESENCE PRESENCE PRESENCE PRESENCE PRESENCE PRESENCE PRESENCE ON THE CO D IN THE CO D TIME. DX AND WII E LOOP DE	ARTMEN	LAY/ XT. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CALLED Ø2 Ø2 Ø4 Ø4 Ø4 Ø6 Ø6 Ø6 Ø6 ANSPORT _Y. TE CONTR TERS CAP	EXT. Ø2 Ø2 Ø4 Ø4 Ø6 Ø6 Ø6	

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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	TAP-002S(924)X	23	45
	PROJECT FILE NO.	608000	

### TRAFFIC SIGNAL DATA

UENCE & <u>TIMING NOTES:</u> AUTOMATIC FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28 THRU 4D.31.

PEDESTRIAN PHASE UPON PUSH BUTTON ACTIVATION ONLY. FYA = FLASHING YELLOW ARROW

PERM = PERMITTED LEFT-TURN

MAXIMUM 1 = FREE OPERATION

MAXIMUM 2 = M-F 6:00 AM - 10:00 AM M-F 3:00 PM - 7:00 PM

IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.

THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.

IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.

IF THE ASSIGNED RIGHT-OF-WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.

IF Ø6 IS IN OPERATION FOLLOWING THE TERMINATION OF Ø1, THE SEQUENCE FOR SIGNAL HOUSING "D" SHALL BE SOLID GREEN ARROW, SOLID YELLOW ARROW, FLASHING YELLOW ARROW, SOLID YELLOW ARROW, AND SOLID RED ARROW.

Ø2 & Ø6 OPERATE AS DUAL ENTRY

### RGENCY VEHICLE PRE-EMPTION NOTES:

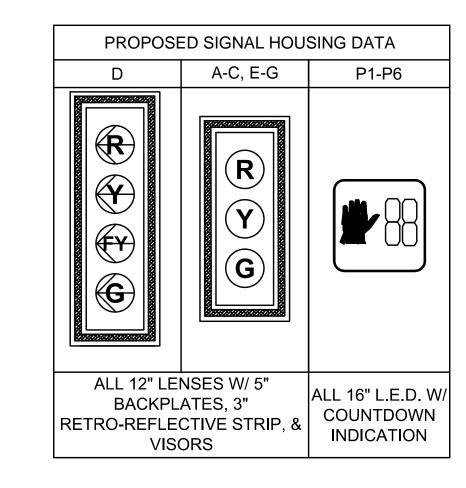
EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.

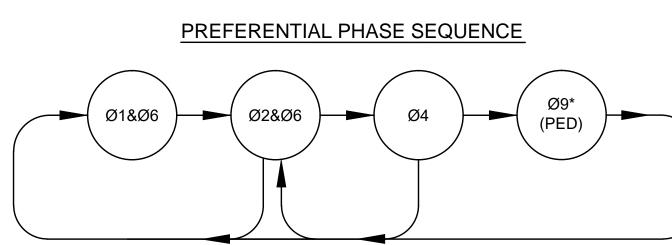
EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.

IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE ØA (OR ØB, ØC) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCE (AS NOTED IN CHART) AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PRE-EMPTION PHASES AS NECESSARY.

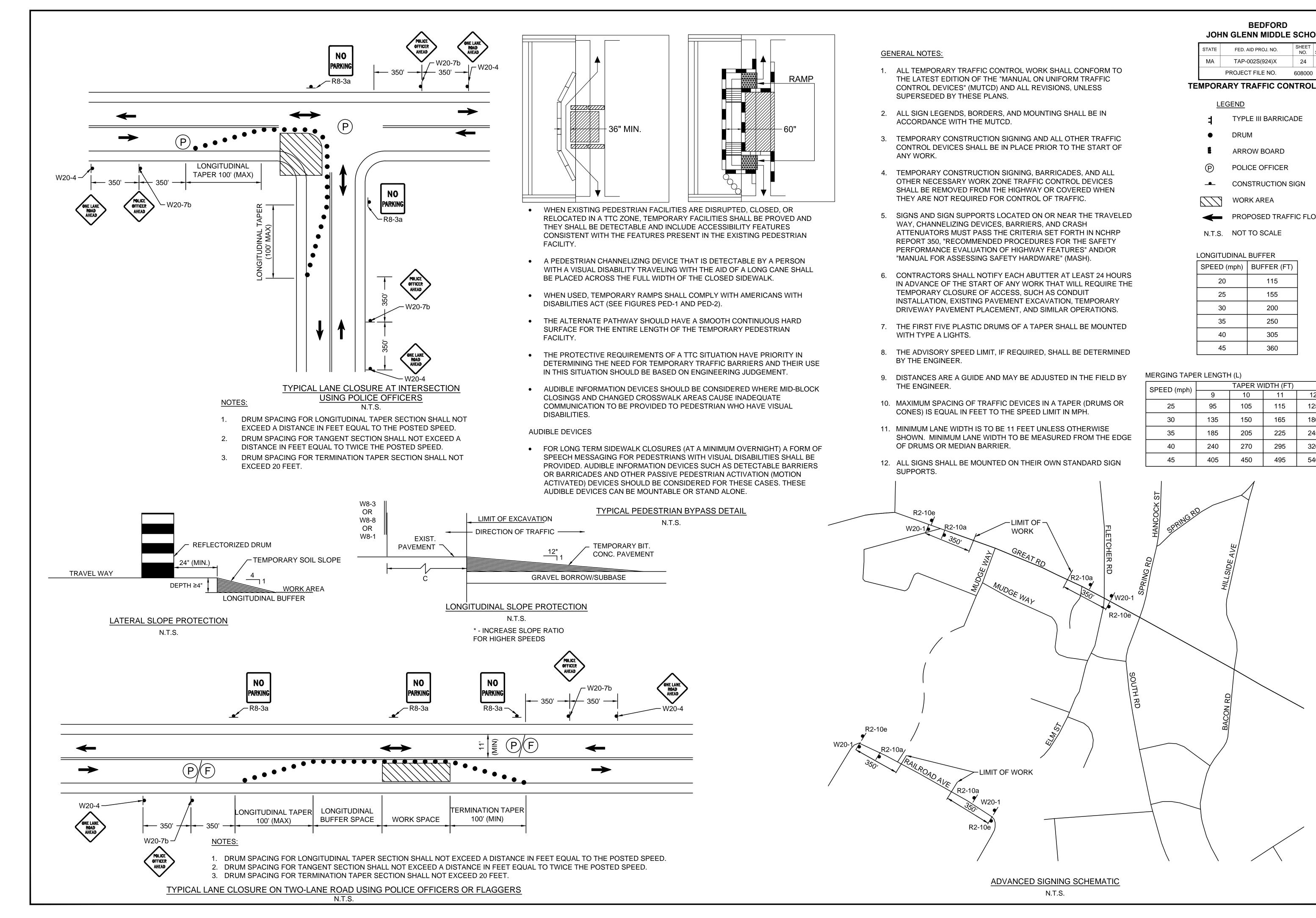
NORMAL CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.

CONFIRMATION STROBE (WHITE) SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ON.





* PEDESTRIAN PHASE UPON PUSH BUTTON ACTIVATION ONLY.



### JOHN GLENN MIDDLE SCHOOL SHEET TOTAL NO. SHEETS 24 45

### **TEMPORARY TRAFFIC CONTROL PLANS**

- PROPOSED TRAFFIC FLOW

SPEED (mph)	BUFFER (FT)
20	115
25	155
30	200
35	250
40	305
45	360
	20 25 30 35 40

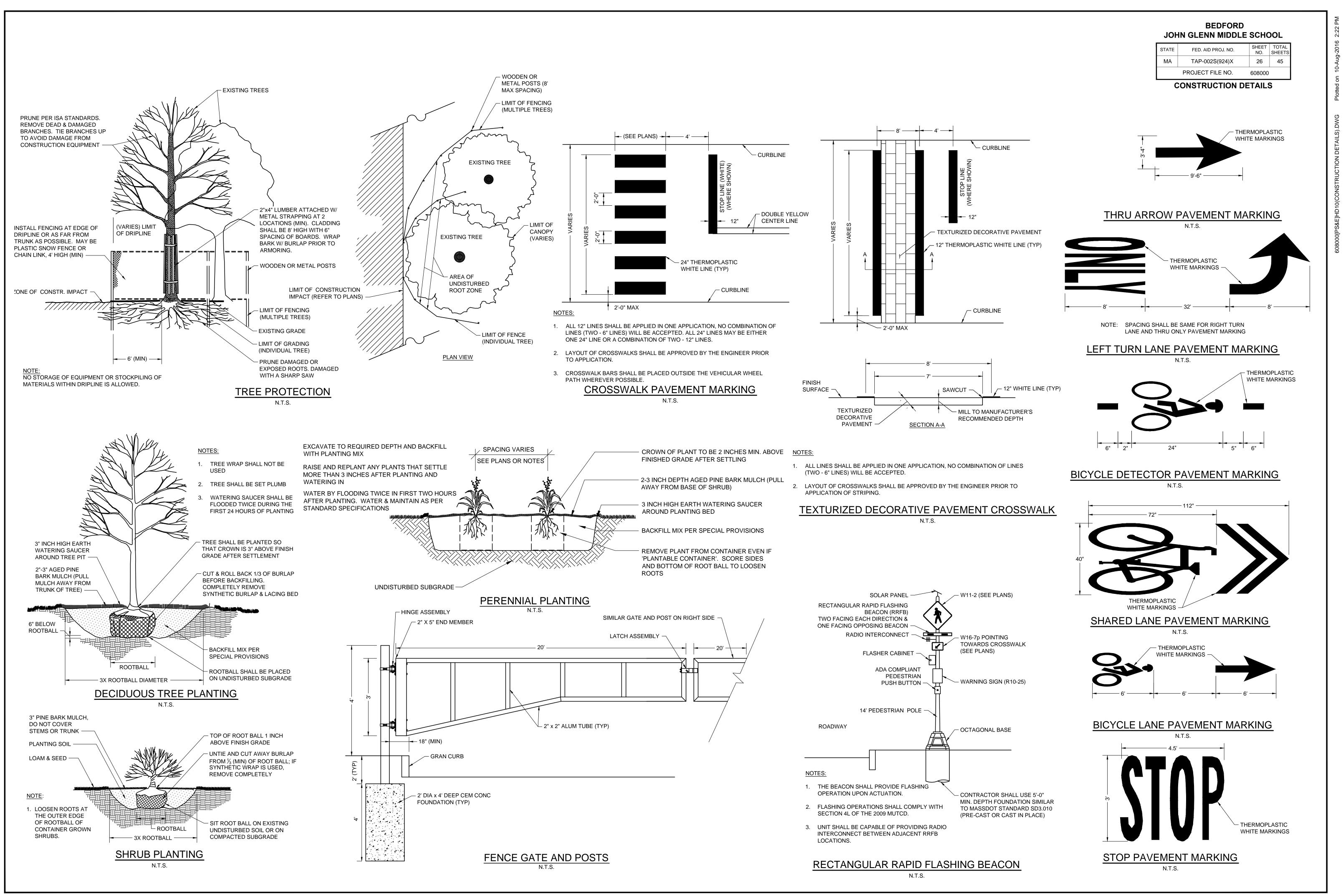
SPEED (mph)	TAPER WIDTH (FT)								
	9	10	11	12					
25	95	105	115	125					
30	135	150	165	180					
35	185	205	225	245					
40	240	270	295	320					
45	405	450	495	540					

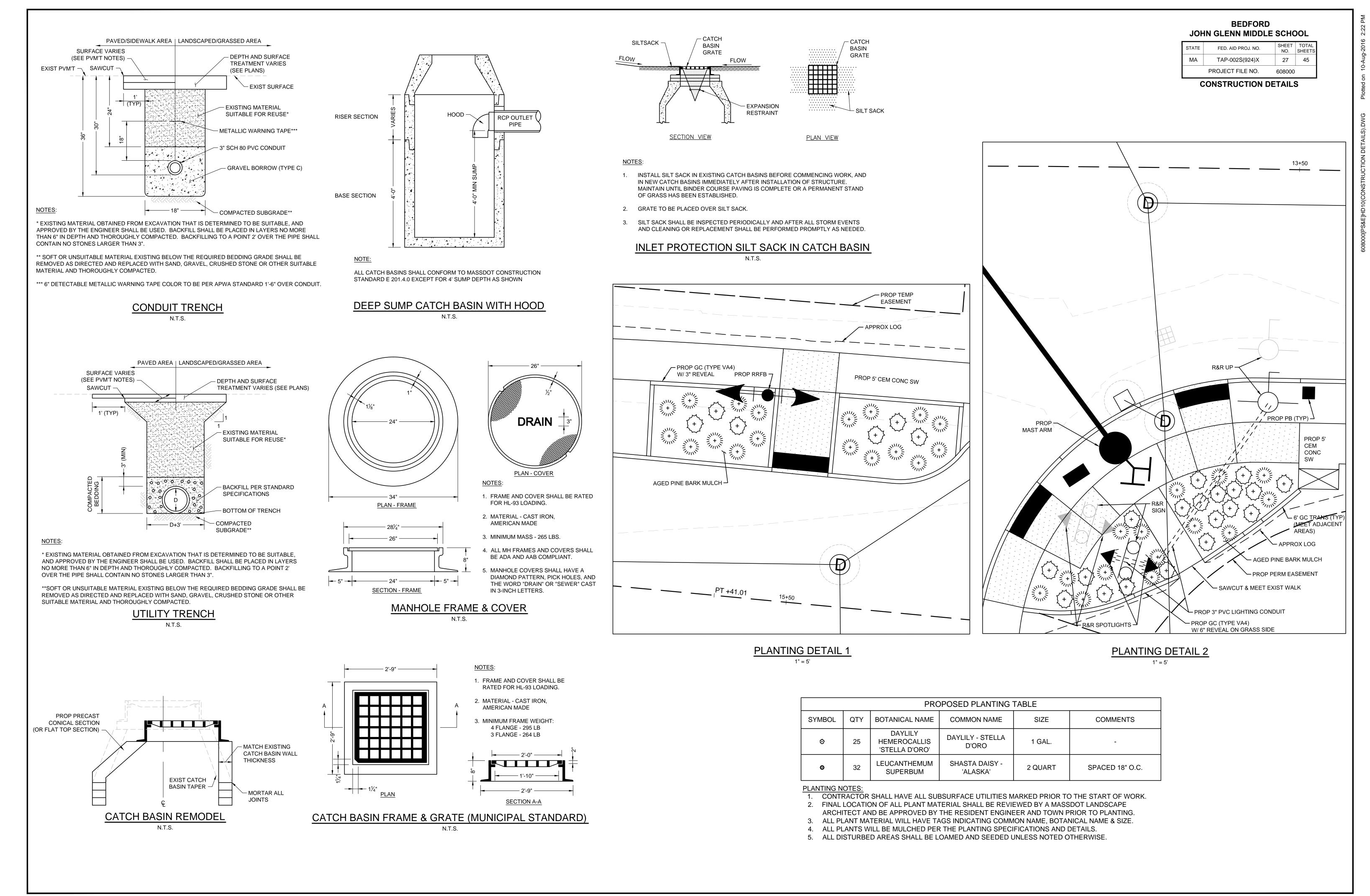
				TE	XT DIMENSIC	NS(in)	1	COLOR		NUMBER		
ID NUMBER		SIGN (in)	LEGEND	LETTER	VERTICAL	ARROW	BACK-	LEGEND	BORDER	OF SIGNS	UNIT AREA (SF)	TOTAL AREA (SF)
	WIDTH	HEIGHT		HEIGHT	SPACING	RTE. MKR.	GROUND			REQUIRED		
R2-10a	48	36	WORK ZONE Speeding Fines DOUBLED	MASS	DOT STAND	RD SIGN	ORANGE WHITE	BLACK BLACK	BLACK BLACK	5	12.00	60.00
R2-10e	36	48	END ROAD WORK DOUBLE FINES END		V		ORANGE WHITE	BLACK BLACK	BLACK BLACK	5	12.00	60.00
R8-3a	18	24	<b>NO</b> PARKING	TRAFFIC	09 MANUAL C C CONTROL E EETS AND HI	EVICES FOR	WHITE	RED	RED	5	3.00	15.00
R9-9	24	12	SIDEWALK CLOSED				WHITE	BLACK	BLACK	2	2.00	4.00
W20-1	36	36	ROAD WORK AHEAD				ORANGE	BLACK	BLACK	5	9.00	45.00
W20-4	36	36	ONE LANE ROAD AHEAD				ORANGE	BLACK	BLACK	5	9.00	45.00
W20-7b	36	36	POLICE OFFICER AHEAD	MASS	DOT STAND	RD SIGN	ORANGE	BLACK	BLACK	5	9.00	45.00

### BEDFORD

JOHN GLENN MIDDLE SCHOOL									
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS						
MA	TAP-002S(924)X	25	45						
PROJECT FILE NO. 608000									

TEMPORARY TRAFFIC CONTROL PLANS





	PRC	POSED PLANTING	TABLE	
QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
25	DAYLILY HEMEROCALLIS 'STELLA D'ORO'	DAYLILY - STELLA D'ORO	1 GAL.	-
32	LEUCANTHEMUM SUPERBUM	SHASTA DAISY - 'ALASKA'	2 QUART	SPACED 18" O.C.
IES.				

Ŭ	52	SUF
PLANTING N	OTES:	

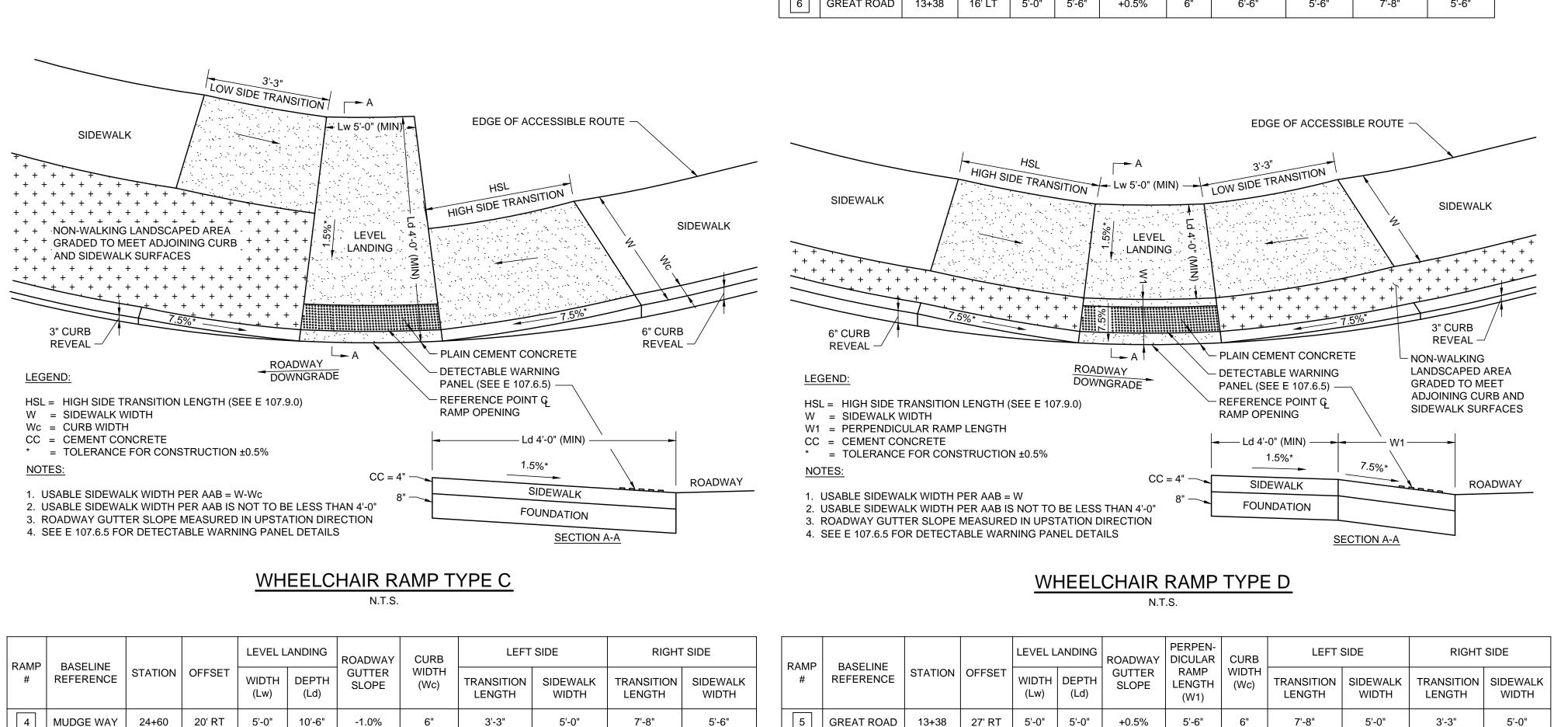
WHEELCHAIR RAMP NOTES:

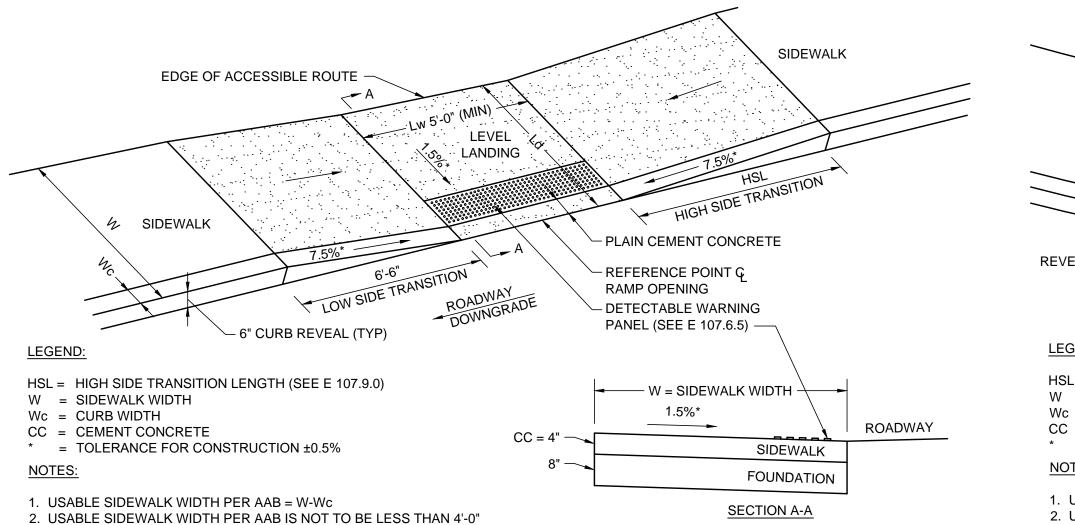
- 1. MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE DESIGNED TO 4.5% ±0.5% (7.5% ±0.5% FOR CURB RAMPS)
- 2. A MINIMUM OF 3'-0" CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
- 3. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
- 4. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
- 5. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5'x5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FT.
- 6. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY.
- 7. DETECTABLE WARNING PANELS ARE REQUIRED ON ALL OF THE PROPOSED WHEELCHAIR RAMPS AND ARE TO BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION STANDARD E 107.6.5 (JUNE 2014). CONTRACTOR SHALL PROVIDE 6" BETWEEN DETECTABLE WARNING PANEL AND EDGE OF CONCRETE WHERE IT ABUTS LOAM & SEED.
- 8. WHEELCHAIR RAMP SLOPES AND CROSS SLOPES SHALL HAVE A CONSTRUCTION TOLERANCE OF ±0.5%.
- 9. DETECTABLE WARNING PANELS SHALL BE BRICK RED IN COLOR AS APPROVED BY THE TOWN OF BEDFORD DPW.

### WHEELCHAIR RAMP NOTES N.T.S.

6"

4





- 3. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION
- 4. SEE E 107.6.5 FOR DETECTABLE WARNING PANEL DETAILS

### 5. SEE E 107.2.1 FOR ALL OTHER DETAILS

### WHEELCHAIR RAMP TYPE A N.T.S.

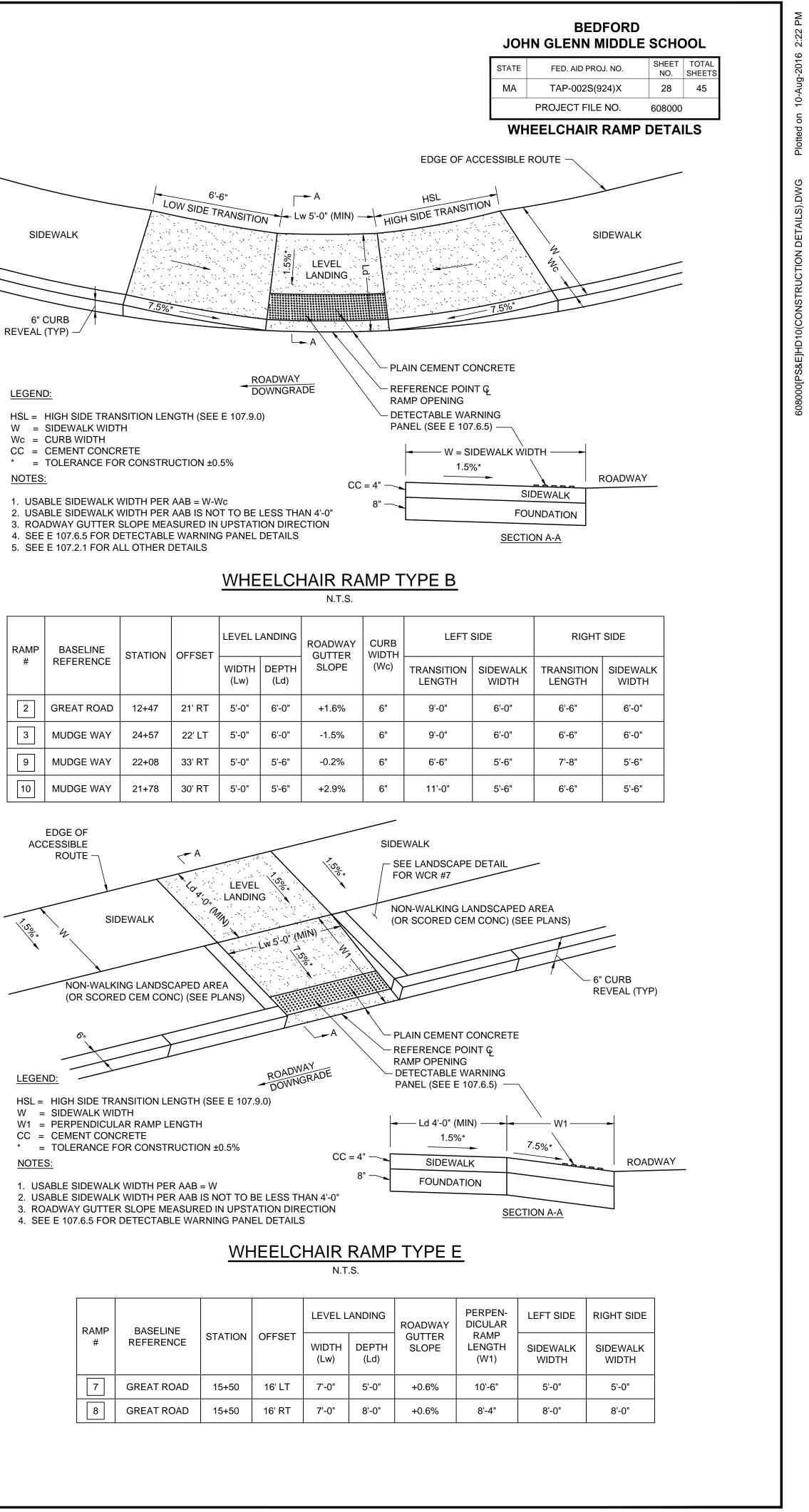
RAMP	BASELINE	LEVEL LANDING		ROADWAY	CURB	LEFT	SIDE	RIGHT	SIDE		
#	REFERENCE	STATION	OFFSET	WIDTH (Lw)	DEPTH (Ld)	GUTTER SLOPE	WIDTH (Wc)	TRANSITION LENGTH	SIDEWALK WIDTH	TRANSITION LENGTH	SIDEWALK WIDTH
1	GREAT ROAD	12+47	16' LT	5'-0"	5'-6"	+1.6%	6"	6'-6"	5'-6"	9'-0"	5'-6"
6	GREAT ROAD	13+38	16' LT	5'-0"	5'-6"	+0.5%	6"	6'-6"	5'-6"	7'-8"	5'-6"

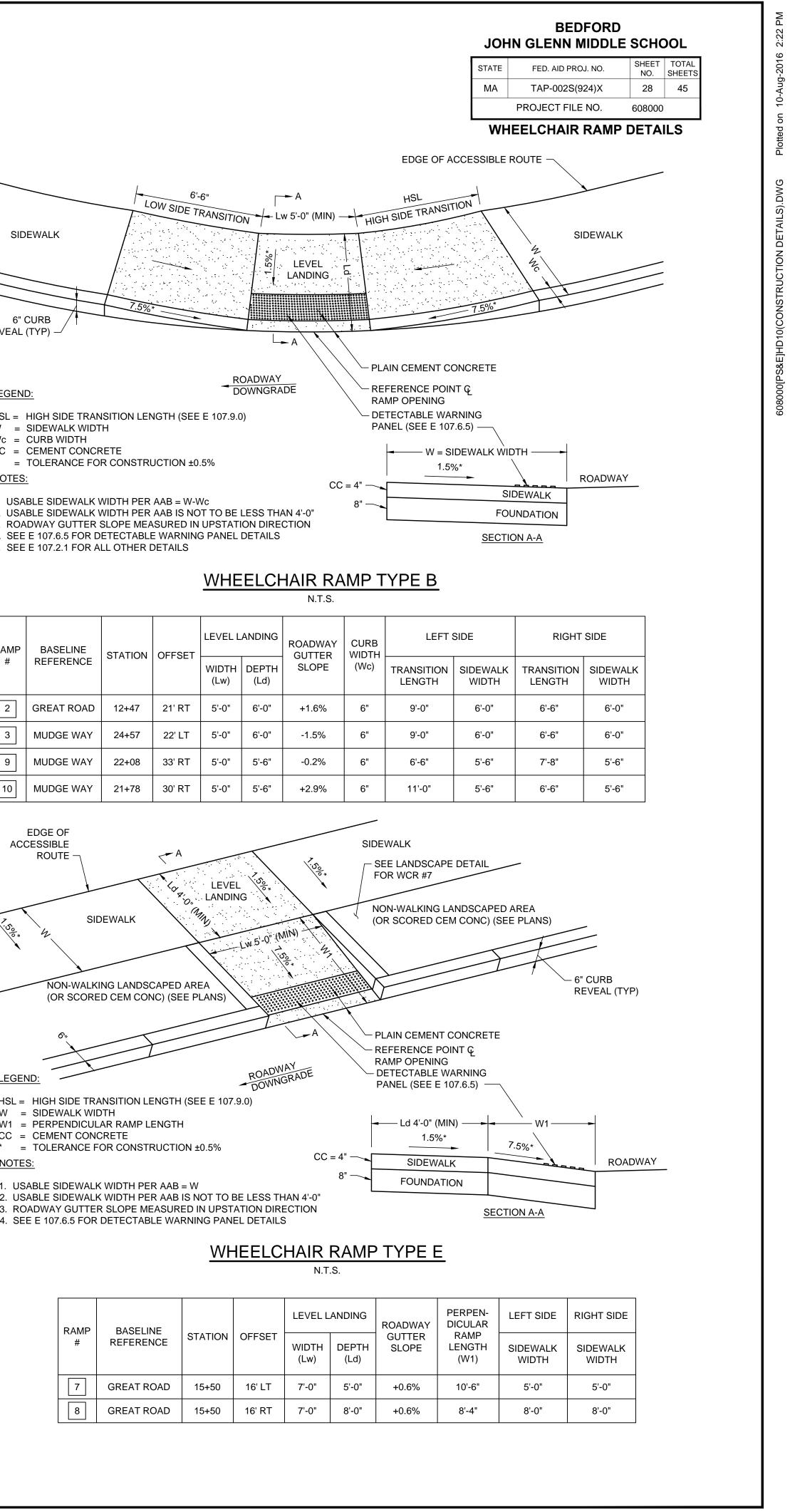
N	.Т	.S.	

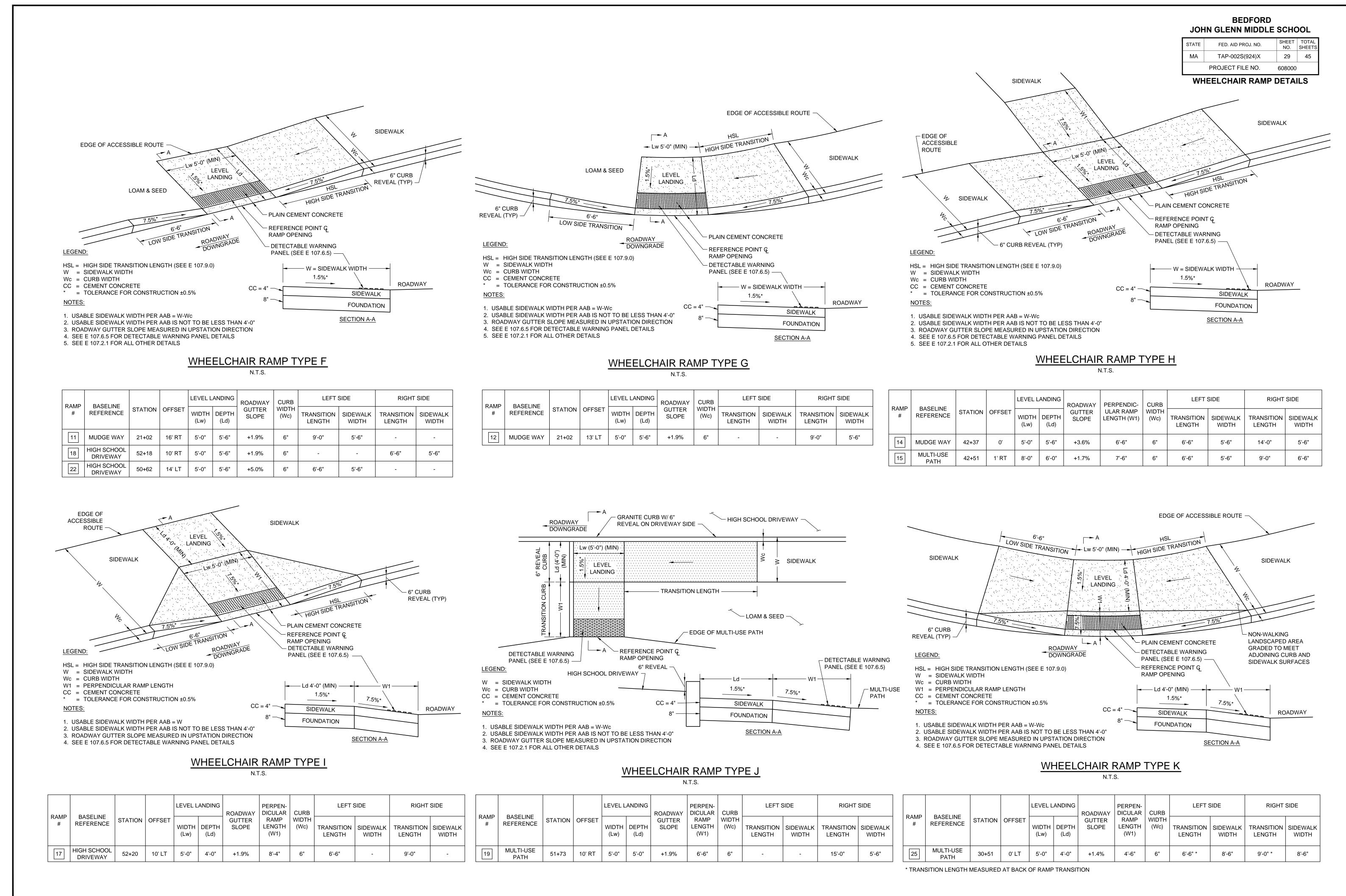
PAMD	BASELINE			LEVEL L	ANDING	ROADWAY				SIDE		
RAMP #	REFERENCE	STATION	OFFSET	WIDTH (Lw)	DEPTH (Ld)	GUTTER SLOPE	RAMP LENGTH (W1)	WIDTH (Wc)	TRANSITION LENGTH	SIDEWALK WIDTH	TRANSITION LENGTH	SIDEWALK WIDTH
5	GREAT ROAD	13+38	27' RT	5'-0"	5'-0"	+0.5%	5'-6"	6"	7'-8"	5'-0"	3'-3"	5'-0"

## RAMP 2 3 9

ACCESSIBLE

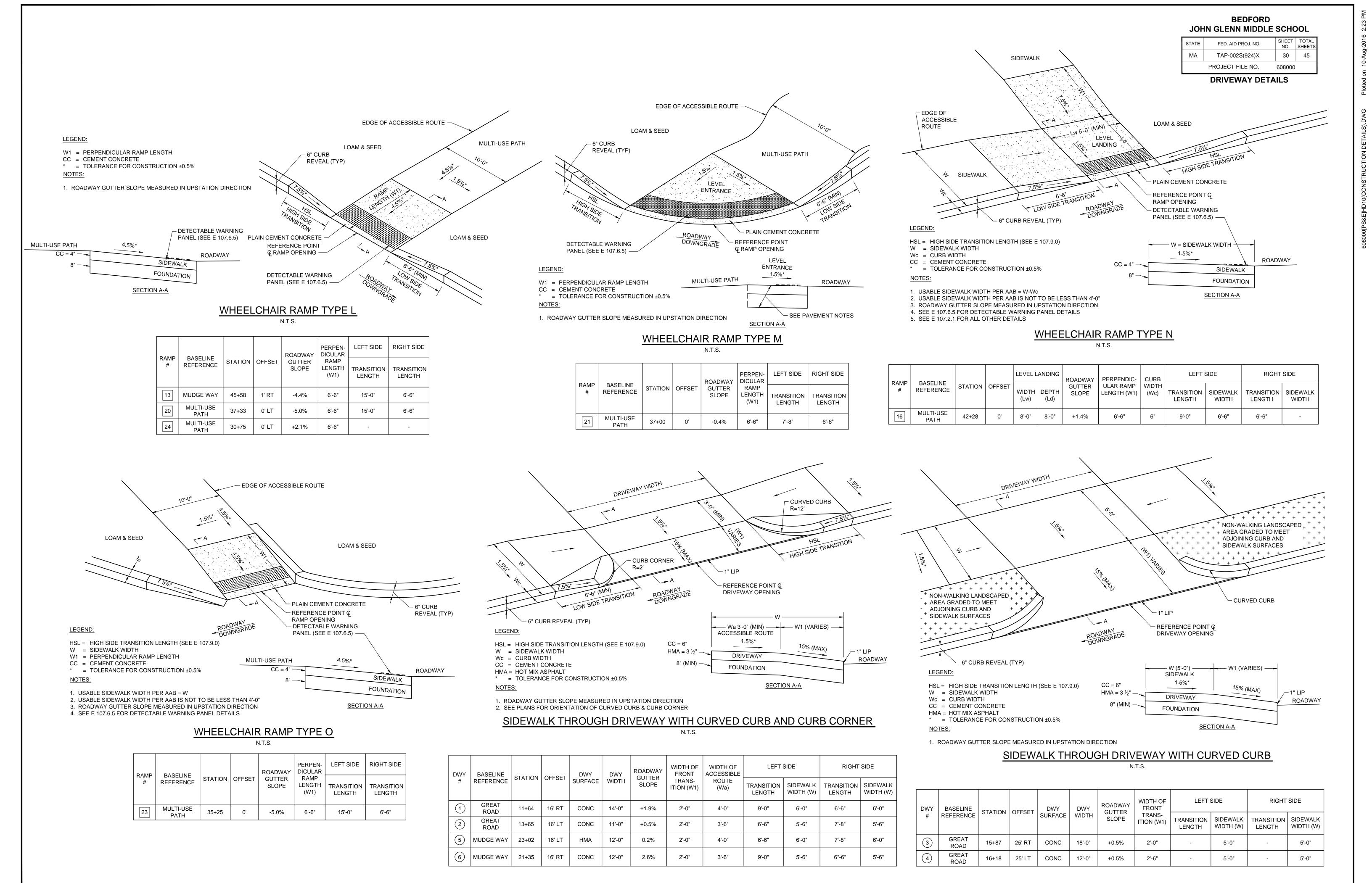






#     REFERENCE     STATION     OFFSET     WIDTH     DEPTH     GUTTER     WIDTH     TRANSITION     SIDEWALK     TRANSITION       (Lw)     (Lw)     (Ld)     (Ld)     (Wc)     TRANSITION     SIDEWALK     SIDEWALK     TRANSITION     SIDEWALK     SIDEWALK     SIDEWALK     SIDEWALK     SIDEWALK     SIDEWALK     SIDEWALK     SIDEWALK     SIDE	RAMP	BASELINE			LEVEL L	ANDING	ROADWAY	CURB	LEFT	N SIDEWALK TRANSI WIDTH LENG	RIGHT	SIDE
			STATION	OFFSET								SIDEWALK WIDTH
12         MUDGE WAY         21+02         13' LT         5'-0"         5'-6"         +1.9%         6"         -         9'-0"         5	12	MUDGE WAY	21+02	13' LT	5'-0"	5'-6"	+1.9%	6"	-	-	9'-0"	5'-6"

E					LEVEL L	ANDING	ROADWAY	PERPEN- DICULAR	CURB	LEFT S	SIDE	RIGHT	SIDE	DAMP				LEVEL L		ROADWAY	PERPEN- DICULAR	CURB	LEFT S	SIDE	RIGHT	SIDE								
DEWALK WIDTH		BASELINE REFERENCE S			STATION OFFSET	STATION OFFSET			STATION OFFSET		TATION OFFSET	STATION OFFSET	WIDTH (Lw)	DEPTH (Ld)	GUTTER	RAMP LENGTH (W1)	WIDTH	TRANSITION LENGTH	SIDEWALK WIDTH	TRANSITION LENGTH	SIDEWALK WIDTH	RAMP #	BASELINE REFERENCE	STATION	OFFSET	WIDTH (Lw)	DEPTH (Ld)	GUTTER SLOPE	RAMP LENGTH (W1)	WIDTH (Wc)	TRANSITION LENGTH	SIDEWALK WIDTH	TRANSITION LENGTH	SIDEWALK WIDTH
-	19	MULTI-USE PATH	51+73	10' RT	5'-0"	5'-0"	+1.9%	6'-6"	6"	-	-	15'-0"	5'-6"	25	MULTI-USE PATH	30+51	0' LT	5'-0"	4'-0"	+1.4%	4'-6"	6"	6'-6" *	8'-6"	9'-0" *	8'-6"								



1.	ROA

DWY	BASELINE	STATION	OFFSET	DWY	DWY	ROADWAY GUTTER	WIDTH OF FRONT	WIDTH OF ACCESSIBLE	LEFT SIDE		RIGHT SIDE		
#	REFERENCE	STATION	UFFSET	SURFACE	WIDTH	SLOPE	TRANS- ITION (W1)	ROUTE (Wa)	TRANSITION LENGTH	SIDEWALK WIDTH (W)	TRANSITION LENGTH	SIDEWALK WIDTH (W)	
	GREAT ROAD	11+64	16' RT	CONC	14'-0"	+1.9%	2'-0"	4'-0"	9'-0"	6'-0"	6'-6"	6'-0"	
2	GREAT ROAD	13+65	16' LT	CONC	11'-0"	+0.5%	2'-0"	3'-6"	6'-6"	5'-6"	7'-8"	5'-6"	
5	MUDGE WAY	23+02	16' LT	HMA	12'-0"	0.2%	2'-0"	4'-0"	6'-6"	6'-0"	7'-8"	6'-0"	
6	MUDGE WAY	21+35	16' RT	CONC	12'-0"	2.6%	2'-0"	3'-6"	9'-0"	5'-6"	6"-6"	5'-6"	

BASELINE	STATION	OFFSET	DWY	DWY	ROADWAY GUTTER	WIDTH OF FRONT	LEFTS	SIDE	RIGHT	SIDE
REFERENCE	STATION	OFFOLT	SURFACE	WIDTH	SLOPE	TRANS- ITION (W1)	TRANSITION LENGTH	SIDEWALK WIDTH (W)	TRANSITION LENGTH	SIDEWALK WIDTH (W)
GREAT ROAD	15+87	25' RT	CONC	18'-0"	+0.5%	2'-0"	-	5'-0"	-	5'-0"
GREAT ROAD	16+18	25' LT	CONC	12'-0"	+0.5%	2'-6"	-	5'-0"	-	5'-0"
	·									