STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MASS.			3	59
RECORD KEY NO. 600467				

LEGEND AND GENERAL NOTES

GENERAL SYMBOLS

EXISTING	PROPOSED	
CB (OR GI, LB)	CB	CATCH BASIN (OR GUTTER INLET, OR LEACHING BASIN)
CBCI (OR GICI)	CBCI (OR GICI)	CATCH BASIN (OR GUTTER INLET) WITH CURB INLET
		CURB (OR BERM)–TYPE NOTED
		EDGE OF ROAD
EHH	EHH	ELECTRIC HANDHOLE (NUMBER AS NOTED)
EMH	EMH	ELECTRIC MANHOLE "
TMH	TMH	TELEPHONE MANHOLE "
WMH	WMH	WATER MANHOLE "
SMH	SMH	SEWER MANHOLE "
DMH	DMH	DRAINAGE MANHOLE "
GG	GG	GAS GATE
WG	WG	WATER GATE
CS	CS	CURB STOP
Hyd		HYDRANT
FA		FIRE ALARM BOX
PM	PM	PARKING METER
LP		STREET LIGHT
UP		UTILITY POLE
GUY		GUY POLE
12"RCP D	D 68'–12"RCP	DRAIN PIPE (DOUBLE LINE 24" AND OVER)
8"VCP S	S 270'–8"VCP	SEWER MAIN " "
E	E	ELECTRIC DUCT " "
4"HP G	G 8"GAS	GAS MAIN " "
8"C.I. W	W 12"DI	WATER MAIN " "
T	T	TELEPHONE DUCT " "
MB	MB	MAIL BOX
		HIGHWAY GUARD (TYPE NOTED)
x x	x o	FENCE (SIZE AND TYPE NOTED)
MHB, SB, CB	MHB, SB, CB	HIGHWAY/PROPERTY BOUND (TYPE NOTED)
LABEL/DATE	LABEL/DATE	CITY, TOWN, OR COUNTY LAYOUT
		STATE HIGHWAY LAYOUT (S.H.L.O.)
		EASEMENT LINE
℄	℄	PROPERTY LINE
NAME		CITY, TOWN, OR COUNTY BOUNDARY
NAME		STATE BOUNDARY
10 N00° 00' 00"E +57.59		BASE OR SURVEY LINE
	P.C. 10 N00° 00' 00"E +57.59	CONSTRUCTION BASELINE
		WHEELCHAIR RAMP (WCR)
		TREE (SIZE AND TYPE NOTED)
		PROPOSED FULL DEPTH PAVEMENT
	B–1	BORINGS, PAVEMENT CORES
	TP–1	TEST PIT

TRAFFIC SIGNAL SYMBOLS

EXISTING	PROPOSED	
		CONTROL CABINET GROUND MOUNTED (WITHOUT & WITH CONCRETE PAD)
		CONTROL CABINET POLE MOUNTED
		FLASHING BEACON CONTROL & METER PEDESTAL
TS	TS	SIGNAL POST & BASE
20' M.A.	20' M.A.	MAST ARM, SHAFT, & BASE (ARM LENGTH AS NOTED)
	A	VEHICULAR SIGNAL HEAD (ALPHA–NUMERIC DESIGNATION NOTED)
	A	VEHICULAR SIGNAL HEAD OPTICALLY PROGRAMMED "
		LIMIT OF VISIBILITY OF OPTICALLY PROGRAMMED SIGNAL HEAD
	A	FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD
PB	PB, HH	PULL BOX 12"x12" OR HANDHOLE
PB	PB	PULL BOX 8"x23"
A	A	CONTROLLER PHASE
m		MAGNETIC DETECTOR (LANE, MULTI–LANE, DIRECTIONAL AS NOTED
RD		RADAR DETECTOR
S		SONIC DETECTOR
		INDUCTIVE LOOP DETECTOR
P		PRESSURE DETECTOR
T T		MAGNETOMETER
PB	PB	PEDESTRIAN PUSH BUTTON
AOD		AREA OF DETECTION
		CONDUIT (COND.)
		CONDUIT CROSSING ROADWAY WITH CEMENT CONCRETE CAP
x x	x x	"x" DUCT (CONCRETE ENCASED)
		OVERHEAD CABLE
		DIRECT BURIED CABLE

PAVEMENT MARKINGS AND SIGNING SYMBOLS

EXISTING	PROPOSED	
		PAVEMENT ARROW AND LEGEND
CW	CW	CROSSWALK, 2–12" WHITE LINES (WIDTH NOTED)
SL	SL	STOP LINE, 12" WHITE LINE 4' BEHIND CW (TYP.)
SWEL	SWEL	SOLID WHITE EDGE LINE–4"
SYEL	SYEL	SOLID YELLOW EDGE LINE–4"
SYL	SYL	SOLID YELLOW LINE–4"
BWLL	BWLL	BROKEN WHITE LANE LINE–4"
SWCHL	SWCHL	SOLID WHITE CHANNELIZING LINE–SIZE AS NOTED
SYCHL	SYCHL	SOLID YELLOW CHANNELIZING LINE–SIZE AS NOTED
DYCL	DYCL	DOUBLE YELLOW CENTER LINE– 2–4" LINES
		SIGN AND POST
		DELINEATOR

ABBREVIATIONS

TRAFFIC SIGNAL SYSTEMS

R	STEADY CIRCULAR RED
Y	STEADY CIRCULAR AMBER
G	STEADY CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
FR_A	FLASHING RED _ ARROW
FY	FLASHING CIRCULAR AMBER
FY_A	FLASHING YELLOW _ ARROW
*VA	STEADY VERTICAL ARROW (RED, YELLOW, OR GREEN PREFIX)
*LA	STEADY LEFT ARROW "
*RA	STEADY RIGHT ARROW "
W	STEADY WALK–LUNAR WHITE
FW	FLASHING WALK–LUNAR WHITE
DW	STEADY DON'T WALK–PORTLAND ORANGE
FDW	FLASHING DON'T WALK–PORTLAND ORANGE
L	DETECTOR–LOCK
N.L.	DETECTOR–NON–LOCK

ALIGNMENT/GRADING

PI	POINT OF INTERSECTION
PC	POINT OF CURVE
PT	POINT OF TANGENT
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
PVC	POINT OF VERTICAL CURVE
PVT	POINT OF VERTICAL TANGENT
PVRC	POINT OF VERTICAL REVERSE CURVE
PVCC	POINT OF VERTICAL COMPOUND CURVE
PVI	POINT OF VERTICAL INTERSECTION
	ELEVATION
CC	CENTER OF CURVE
℄	CONSTRUCTION BASELINE

UTILITIES

C.I.T.	CHANGE IN TYPE
F & G	FRAME AND GRATE
F & C	FRAME AND COVER
R.C.P.	REINFORCED CONCRETE PIPE
V.C.P.	VITRIFIED CLAY PIPE
P.V.C.	POLYVINYLCHLORIDE PIPE
ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
C.I.P.	CAST IRON PIPE
D.I.P.	DUCTILE IRON PIPE
HYD.	HYDRANT
C.A.P.	CORRUGATED ALUMINUM PIPE
INV.	INVERT ELEVATION
P.W.W.	PAVED WATER WAY
U.P.	UTILITY POLE
TSV & B	TAPPING SLEEVE, VALVE AND BOX
COND.	CONDUIT

GENERAL

PROP.	PROPOSED	N.I.C.	NOT IN CONTRACT
MIN.	MINIMUM	N.T.S.	NOT TO SCALE
MAX.	MAXIMUM	TYP.	TYPICAL
RET.	RETAIN	APPROX.	APPROXIMATE
REM.	REMOVE	PSB	4" PLANTABLE SOIL BORROW
REMOD.	REMODEL	MELBCT	MODIFIED ECCENTRIC LOADER BREAKAWAY CABLE TERMINAL
ABAN.	ABANDON		
ADJ.	ADJUST		
EXIST.	EXISTING		
R & R	REMOVE AND RESET		
R & S	REMOVE AND STACK		
FDN.	FOUNDATION		
BOS	BOTTOM OF SLOPE		
TOS	TOP OF SLOPE		
VGC	VERTICAL GRANITE CURB		
G.C.	GRANITE CURB		
G.E.	GRANITE EDGING		
C.C.	CONCRETE CURB		
B.B.	BITUMINOUS BERM		
B.C.	BITUMINOUS CURB		
C.O.	CURB OFFSET		

GENERAL NOTES

1. TOPOGRAPHICAL INFORMATION FROM FIELD SURVEY CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC BETWEEN MARCH, 1994 AND JANUARY, 1995.
2. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAV BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTE
3. ALL ELEVATIONS ARE BASED ON THE 1929 N.V.G.D.
4. TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SH BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
6. THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE–USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET". (R&R)
7. THE FREQUENCY AND APPLICATION RATES FOR WATER FOR DUST CONTROL WILL BE DETERMINED BY THE ENGINEER. NO CALCIUM CHLORIDE FOR DUST CONTROL WILL BE USED ON THIS PROJECT.
8. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND EXISTING PAVEMENT SHALL E SAWCUT AND SEALED WITH HOT POURED RUBBERIZED ASPHALT SEALER AND BACKSANDED.
9. ALL EXISTING GRANITE CURB AND EDGING SHALL BE RE–USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.
10. CONTRACTOR SHALL INSTALL TEMPORARY PAINT MARKINGS OVER INTERIM PAVEMENT SURFACES DURING CONSTRUCTION AS SHOWN ON THE TRAFFIC MANAGEMENT PLANS.
11. ALL ACCUMULATED SEDIMENT THAT RESULTS FROM THE CLEANING OPERATION SHALL BE REMOVED FF THE PROJECT AND DISPOSED PROPERLY OF.

GENERAL NOTES–UTILITIES

1. THE CONTRACTOR SHALL NOTIFY DIGSAFE 48 HOURS IN ADVANCE OF ANY WORK ADJACENT TO UTILIT
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE STATE OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY T CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. 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 THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLIC
4. THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER, SEWER AND AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M4.05.2.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
6. EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS.
7. ALL PROPOSED 12" LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF .01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE DRAWINGS.

GENERAL NOTES–DRAINAGE

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN DRAINAGE AND STORM RUNOFF FLOW DURING PERIODS OF RAINFALL AT NO EXPENSE TO THE STATE.
2. EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES.

GENERAL NOTES–SIGNS

1. PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.