

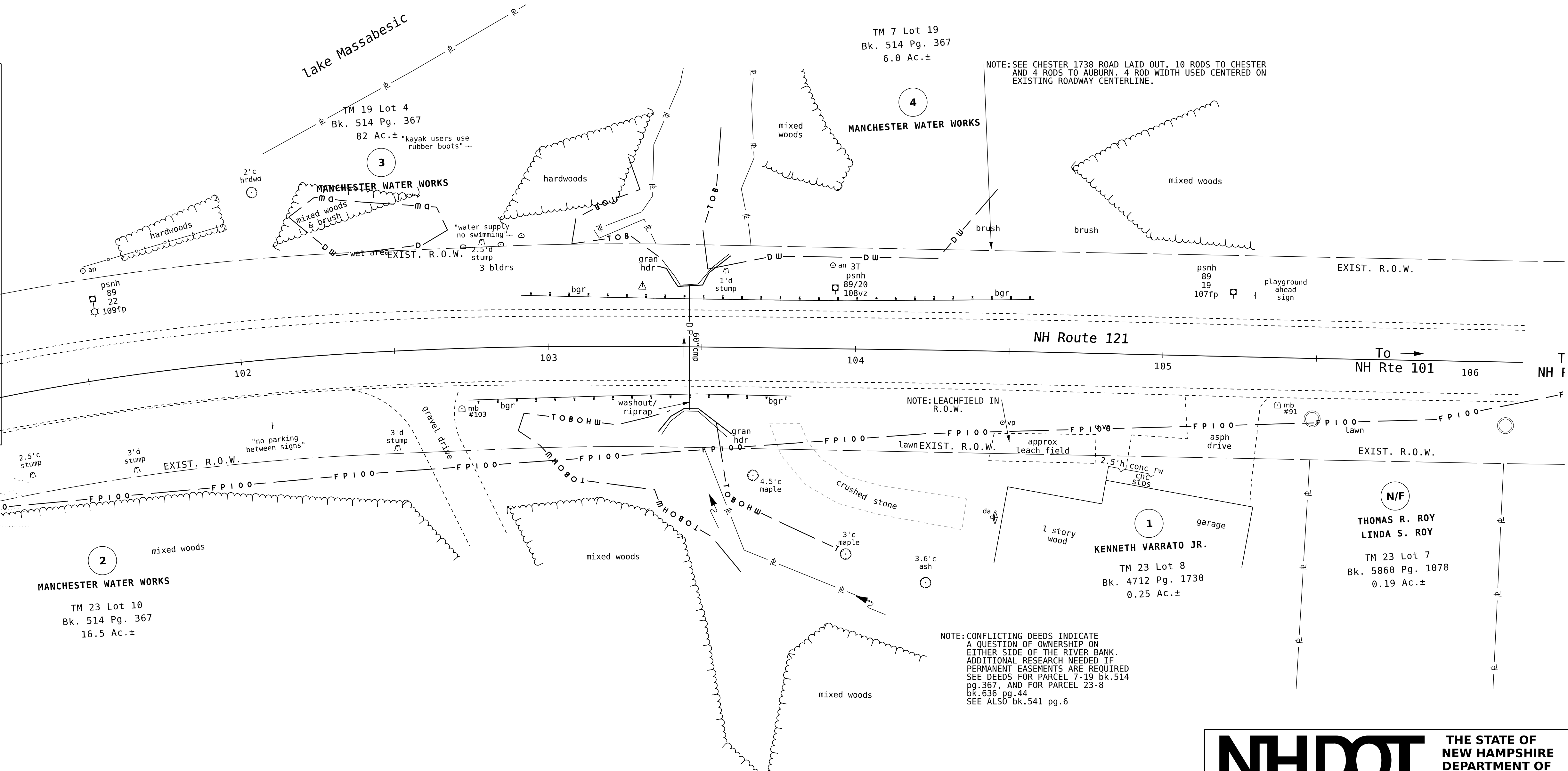
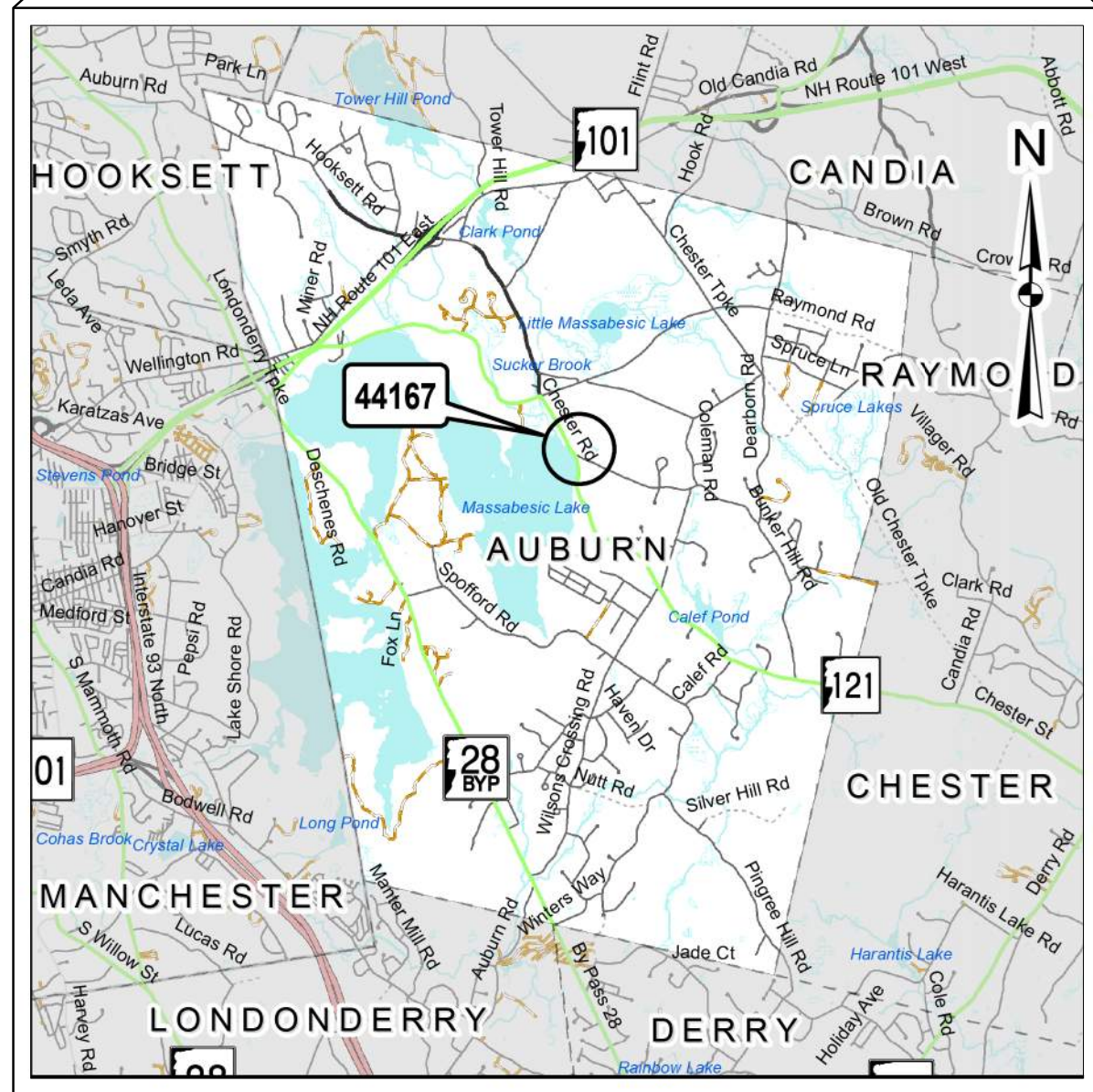
**STATE OF NEW HAMPSHIRE  
DEPARTMENT OF TRANSPORTATION**

# SHORELAND PLANS

## FEDERAL AID PROJECT

**FEDERAL PROJECT NO. X-A00(339)  
N.H. PROJECT NO. 44167**

DESIGN DATA		
AVERAGE DAILY TRAFFIC 20	22	5,100
AVERAGE DAILY TRAFFIC 20	TBD	TBD
PERCENT OF TRUCKS		UNKNOWN
DESIGN SPEED		40 MPH
LENGTH OF PROJECT		45 LF (CULVERT)

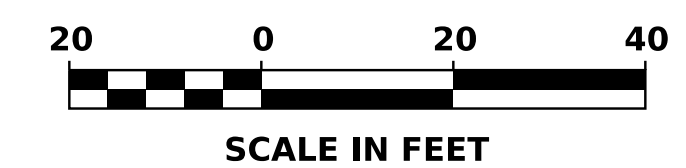


DRAWN BY: GRR  
 CHECKED BY: XX  
 DATE: XX  
 DATE: XX

**INDEX OF SHEETS**

1	FRONT SHEET
2-3	STANDARD SYMBOLS SHEETS
4	SHORELAND IMPACT PLANS

**TOWN OF AUBURN**  
 COUNTY OF ROCKINGHAM  
 SCALE: 1" = 20'



**FOR CONSTRUCTION AND ALIGNMENT DETAILS - SEE CONSTRUCTION PLANS**

NH DOT

THE STATE OF NEW HAMPSHIRE  
DEPARTMENT OF TRANSPORTATION

NH ROUTE 121  
CULVERT REPLACEMENT  
SHORELAND IMPACT PLANS

DRAWING NAME	FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
44167-FSC-shoreland	44167	44167	1	4

# GENERAL

EDGE OF PAVEMENT TRAVELED WAY	  		
DRIVEWAYS	 (label surface type)		
BUILDINGS	 (building to be removed)		
BUILDINGS	 (label house or type of building)		
FOUNDATIONS	 (label type)		
LEACH FIELD	 leach field		
BRIDGE CROSSINGS	 STREAM	 OVERPASS	
STEPS AND WALK	 (label type)		
INTERMITTENT WATER COURSE			
SHORE LINE	 river/stream	 pond (label name of water body)	
POTENTIAL WET AREA SYMBOL			
BRUSH OR WOODS LINE			
TREES (PLANS)	(deciduous)	(coniferous)	(stump)
TREE OR STUMP (CROSS-SECTIONS)	(show station, circumference in feet & type)		
HEDGE	 (label type)		
MONITORING WELL			
WELL			
FLAG POLE			

ORIGINAL GROUND (TYPICALS)		
ROCK OUTCROP		
ROCK LINE (TYPICALS & SECTIONS ONLY)	 existing	 PROPOSED
GUARDRAIL (label type)	 bgr	 cgr
JERSEY BARRIER		
CURB (LABEL TYPE)		
STONE WALL		
RETAINING WALL (LABEL TYPE)	 (points toward retained ground)	
FENCE (LABEL TYPE)		
SIGNS	(single post)	(double post)
GAS PUMP		
FUEL TANK (ABOVE GROUND)	 (label size & type)	
STORAGE TANK FILLER CAP		
SEPTIC TANK		
GRAVE		
MAILBOX		
VENT PIPE		
SATELLITE DISH ANTENNA		
PHONE		
GROUND LIGHT/LAMP POST		
BORING LOCATION		
TEST PIT		
INTERSTATE NUMBERED HIGHWAY		
UNITED STATES NUMBERED HIGHWAY		
STATE NUMBERED HIGHWAY		

# SHORELAND - WETLAND

WETLAND DESIGNATION AND TYPE	
DELINEATED WETLAND	
ORDINARY HIGH WATER	
TOP OF BANK	
TOP OF BANK & ORDINARY HIGH WATER	
NORMAL HIGH WATER	
WIDTH AT BANK FULL	
PRIME WETLAND	
PRIME WETLAND 100' BUFFER	
NON-JURISDICTIONAL DRAINAGE AREA	
COWARDIN DISTINCTION LINE	
TIDAL BUFFER ZONE	
DEVELOPED TIDAL BUFFER ZONE	
HIGHEST OBSERVABLE TIDE LINE	
MEAN HIGH WATER	
MEAN LOW WATER	
VERNAL POOL	
SPECIAL AQUATIC SITE	
REFERENCE LINE	
WATER FRONT BUFFER	
NATURAL WOODLAND BUFFER	
PROTECTED SHORELAND	
INVASIVE SPECIES LABEL	
INVASIVE SPECIES	

# FLOODPLAIN / FLOODWAY

500 YEAR FLOODPLAIN BOUNDARY	
100 YEAR FLOODPLAIN BOUNDARY	
FLOODWAY	

# ENGINEERING

CONSTRUCTION BASELINE	
PC, PT, POT (ON CONST BASELINE)	
PI (IN CONSTRUCTION BASELINES)	
INTERSECTION OR EQUATION OF TWO LINES	
ORIGINAL GROUND LINE (PROFILES AND CROSS-SECTIONS)	
PROFILE GRADE LINE (PROFILES AND CROSS-SECTIONS)	
CLEARING LINE	
SLOPE LINE	
SLOPE LINE (FILL)	
SLOPE LINE (CUT)	
PROFILES AND CROSS SECTIONS:	
ORIGINAL GROUND ELEVATION (LEFT)	
FINISHED GRADE ELEVATION (RIGHT)	

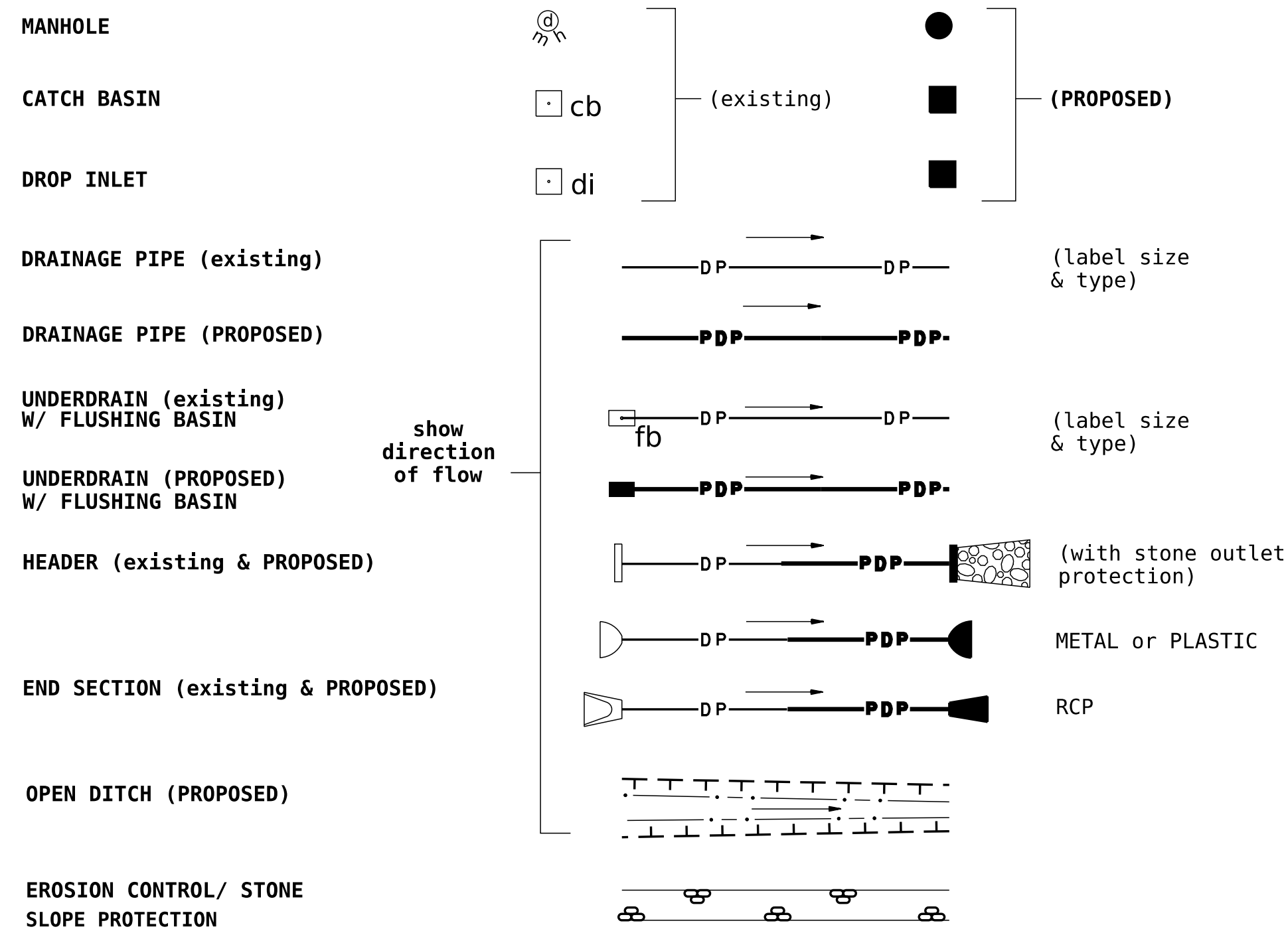
STATE OF NEW HAMPSHIRE  
 AUBURN  
 DEPARTMENT OF TRANSPORTATION    BUREAU OF HIGHWAY DESIGN

## STANDARD SYMBOLS

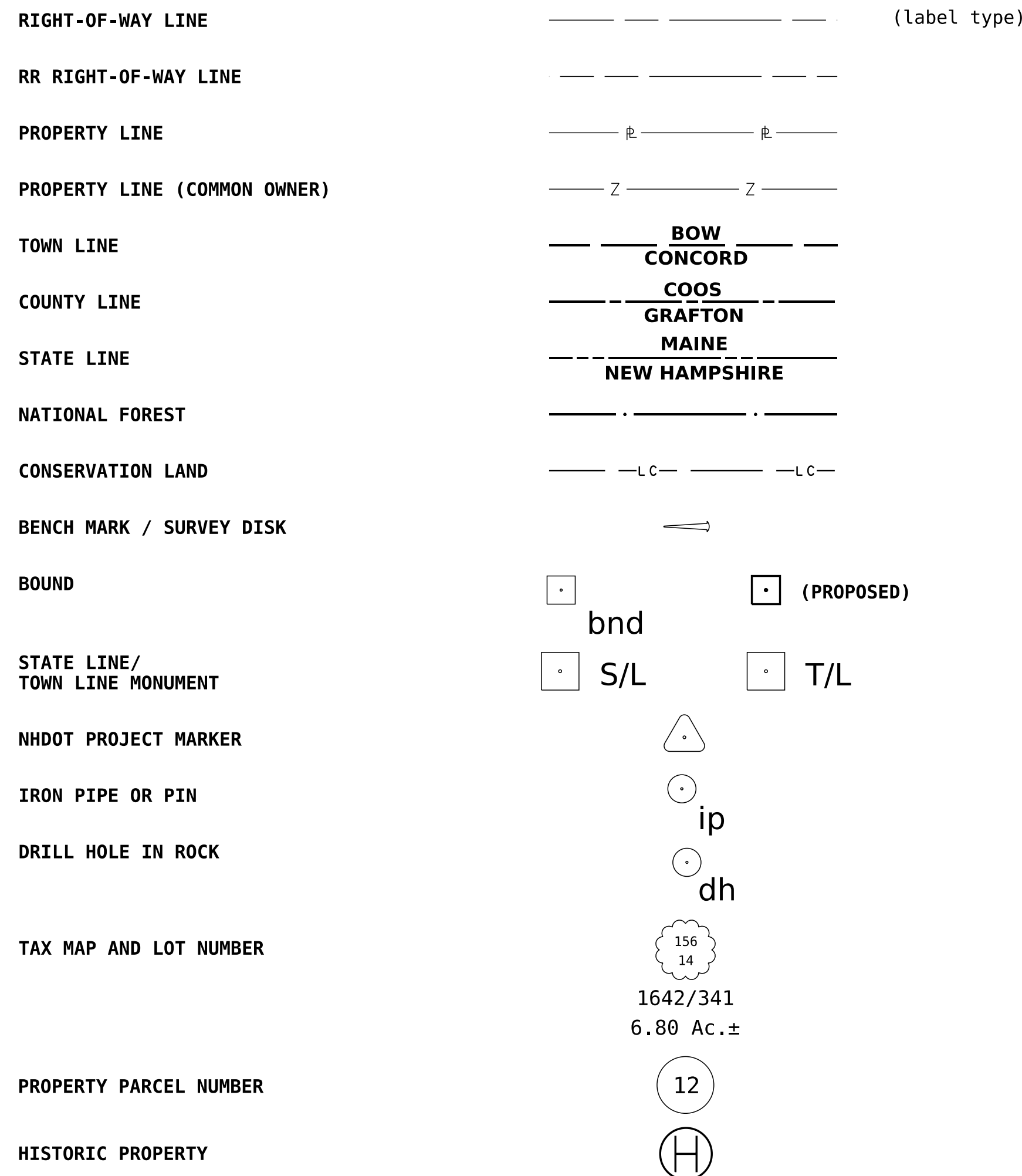
REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
02-25-2022	2, 3 44167stdsyml-2-ce	44167	2	4



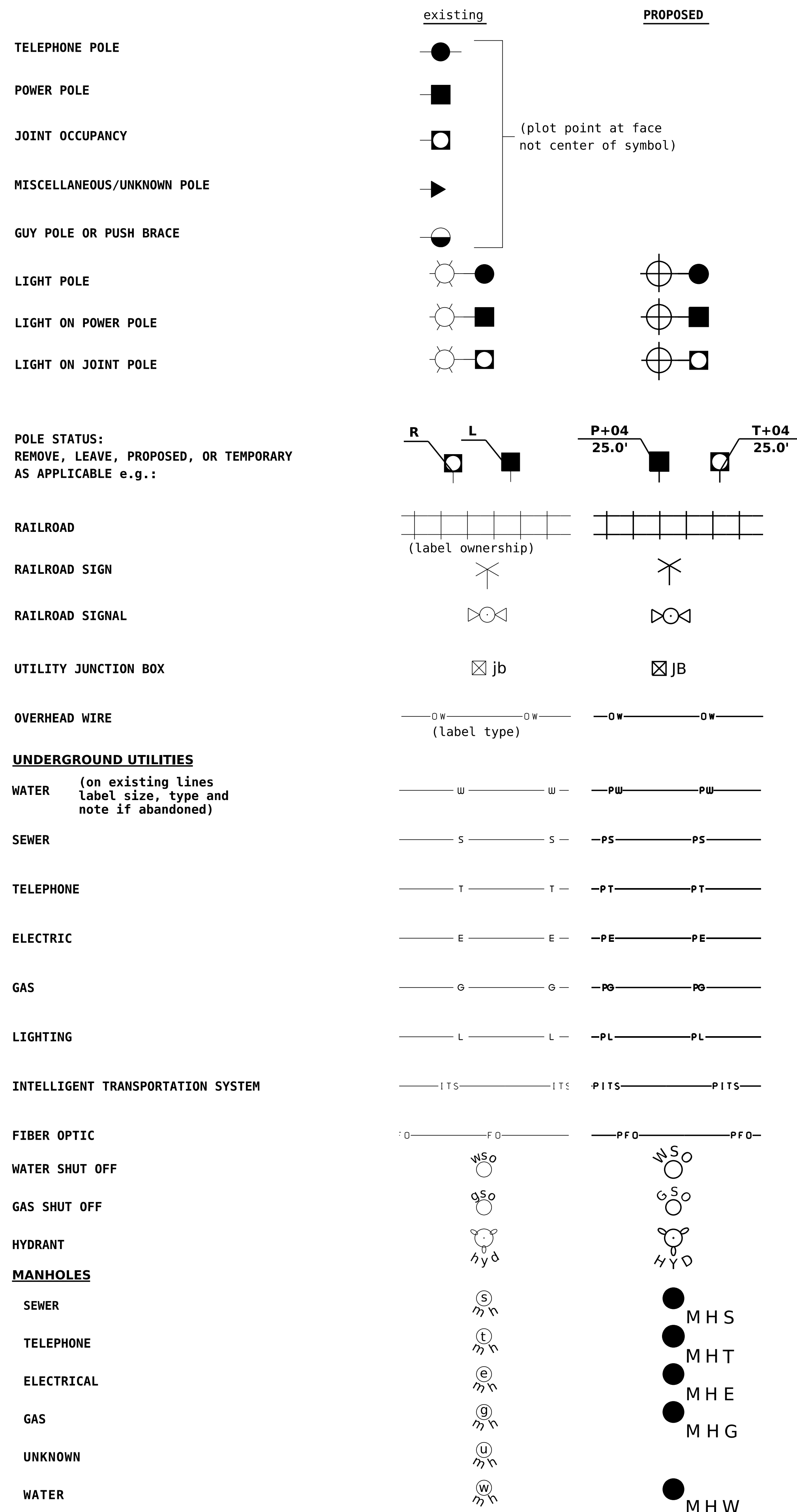
## DRAINAGE



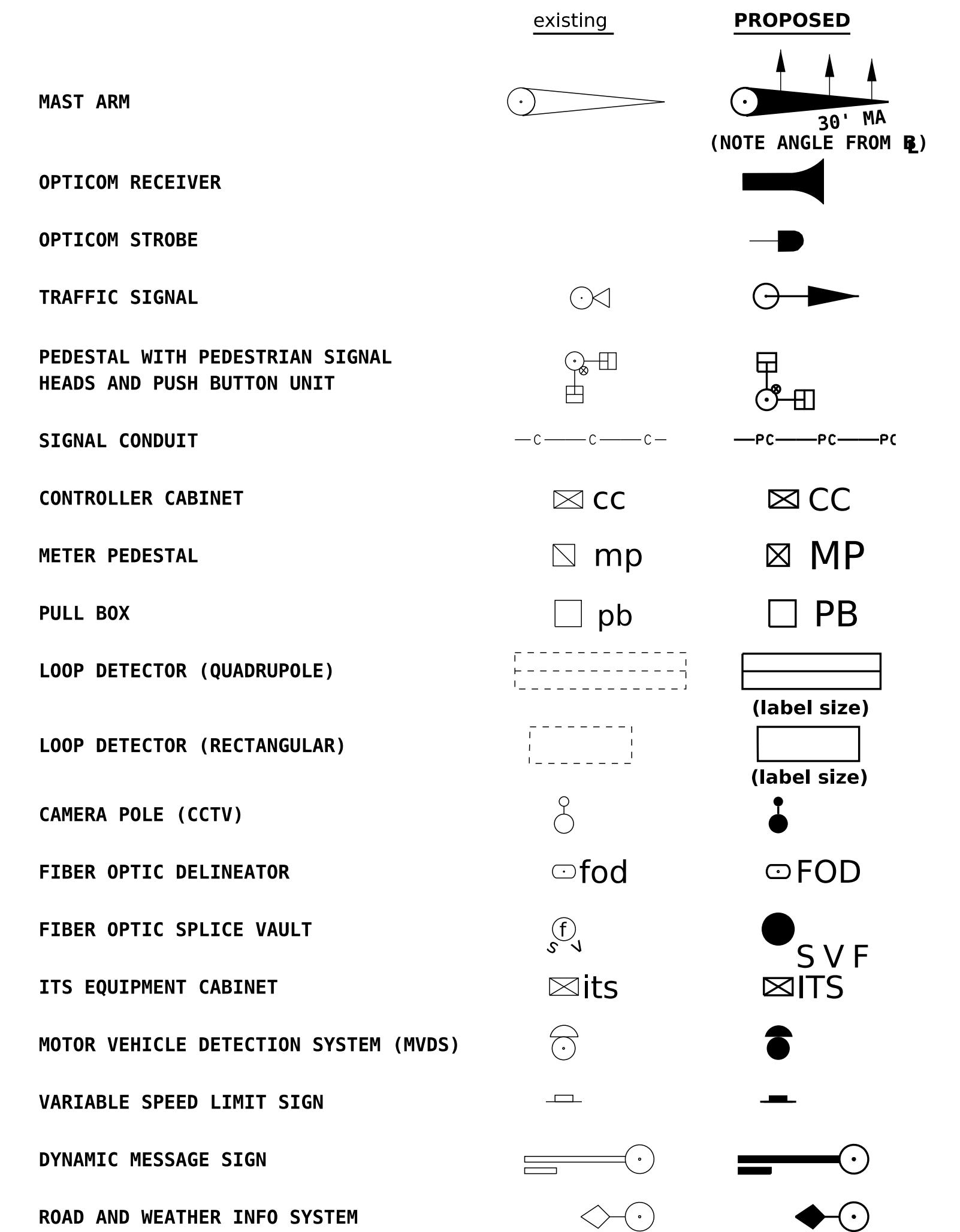
## BOUNDARIES / RIGHT-OF-WAY



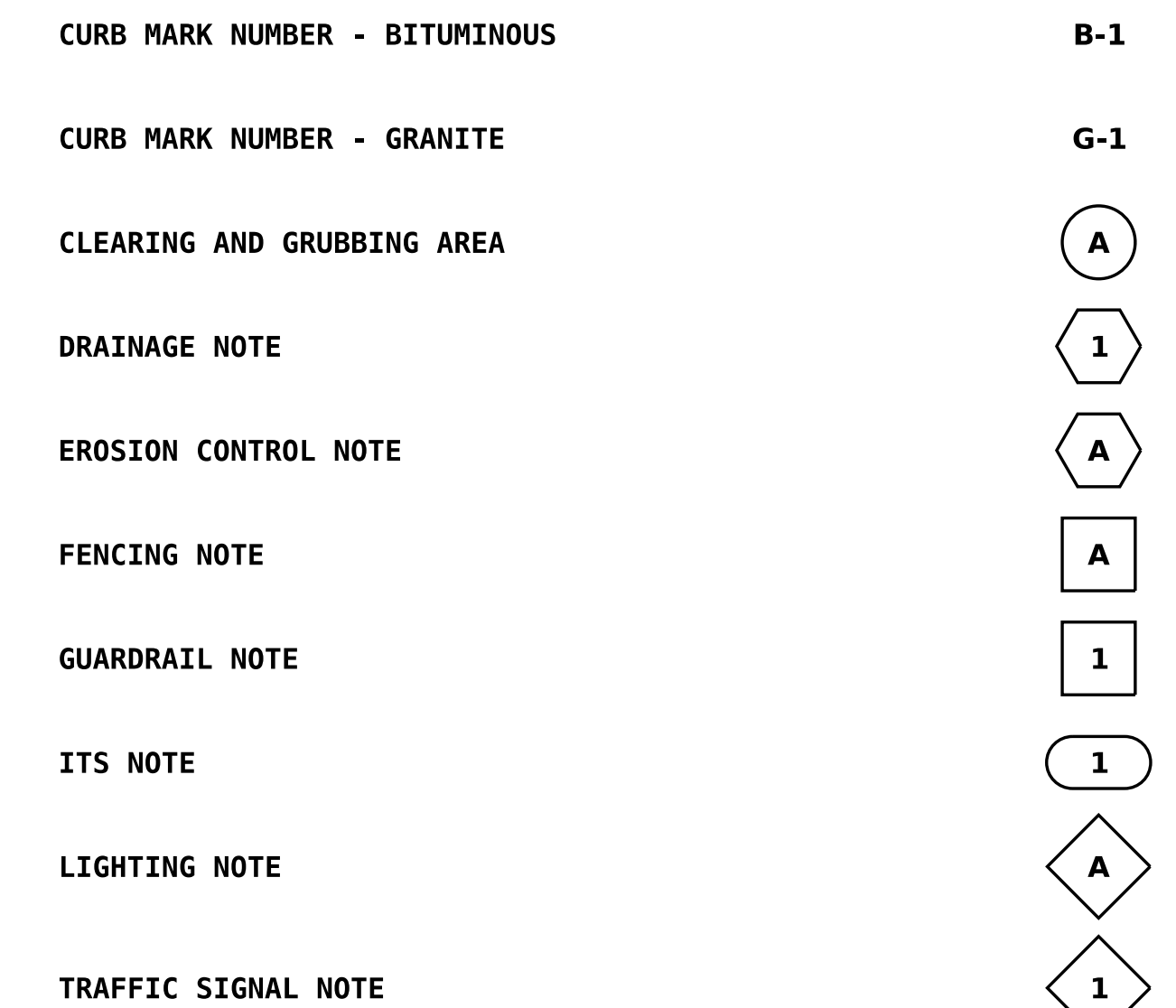
## UTILITIES



## TRAFFIC SIGNALS / ITS



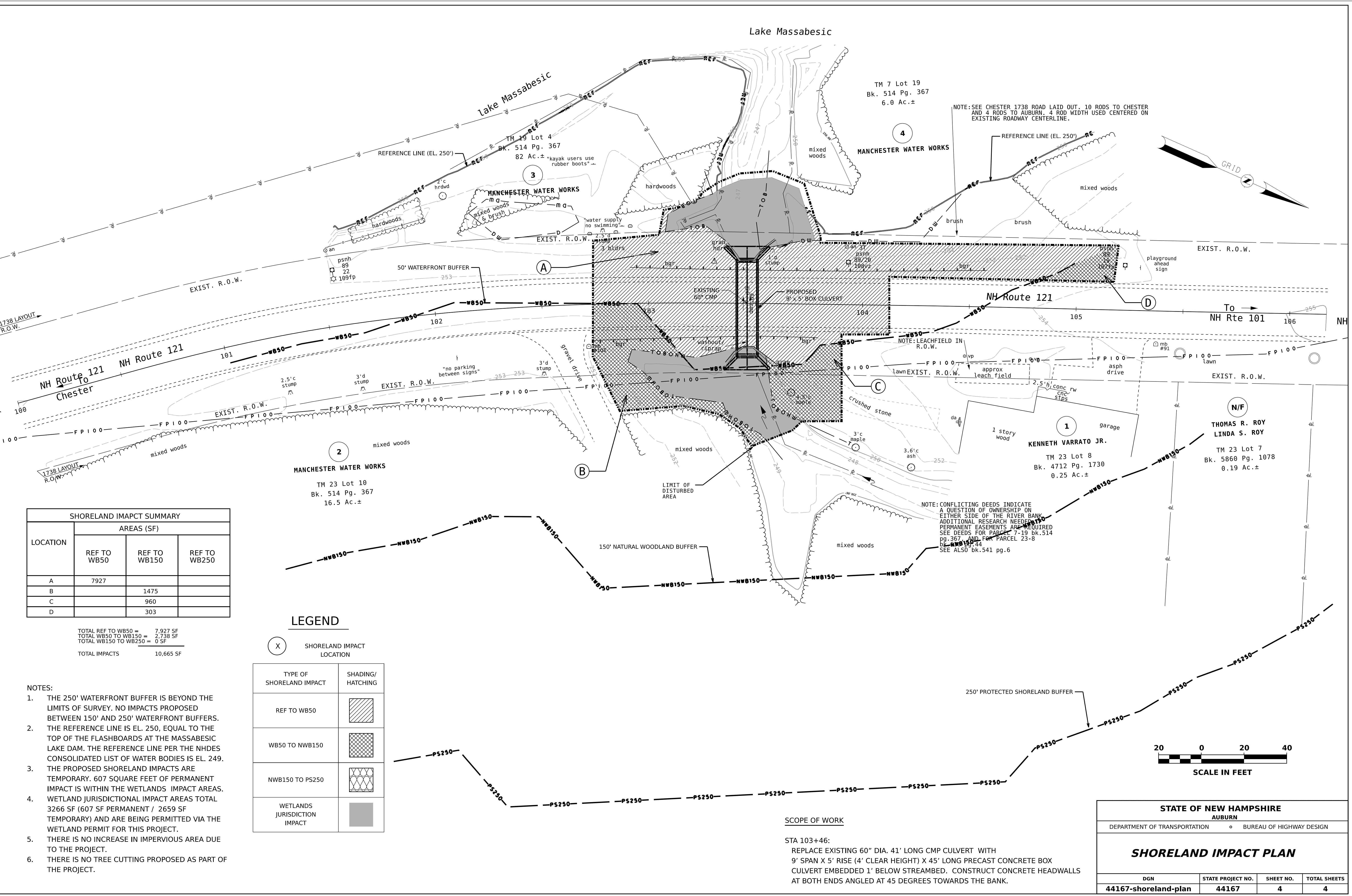
## CONSTRUCTION NOTES



<b>STATE OF NEW HAMPSHIRE</b>				
<b>AUBURN</b>				
DEPARTMENT OF TRANSPORTATION		BUREAU OF HIGHWAY DESIGN		
<b>STANDARD SYMBOLS</b>				
REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
02-25-2022	2, 3 44167stdsyml-2-ce	44167	3	4

SDR PROCESSED	SEL	DATE	05/23/23
	GRR	DATE	06/08/23
NEW DESIGN	JSC	DATE	07/23
	AS BUILT DETAILS	DATE	

REVISIONS AFTER PROPOSAL	DESCRIPTION	
	STATION	



SHORELAND IMPACT SUMMARY			
LOCATION	AREAS (SF)		
	REF TO WB50	REF TO WB150	REF TO WB250
A	7927		
B		1475	
C		960	
D		303	

TOTAL REF TO WB50 = 7,927 SF  
TOTAL WB50 TO WB150 = 2,738 SF  
TOTAL WB150 TO WB250 = 0 SF  
TOTAL IMPACTS = 10,665 SF

LEGEND	
TYPE OF SHORELAND IMPACT	SHADING/HATCHING
REF TO WB50	
WB50 TO NWB150	
NWB150 TO PS250	
WETLANDS JURISDICTION IMPACT	

- NOTES:
- THE 250' WATERFRONT BUFFER IS BEYOND THE LIMITS OF SURVEY. NO IMPACTS PROPOSED BETWEEN 150' AND 250' WATERFRONT BUFFERS.
  - THE REFERENCE LINE IS EL. 250, EQUAL TO THE TOP OF THE FLASHBOARDS AT THE MASSABESIC LAKE DAM. THE REFERENCE LINE PER THE NHDES CONSOLIDATED LIST OF WATER BODIES IS EL. 249.
  - THE PROPOSED SHORELAND IMPACTS ARE TEMPORARY. 607 SQUARE FEET OF PERMANENT IMPACT IS WITHIN THE WETLANDS IMPACT AREAS.
  - WETLANDS JURISDICTIONAL IMPACT AREAS TOTAL 3266 SF (607 SF PERMANENT / 2659 SF TEMPORARY) AND ARE BEING PERMITTED VIA THE WETLAND PERMIT FOR THIS PROJECT.
  - THERE IS NO INCREASE IN IMPERVIOUS AREA DUE TO THE PROJECT.
  - THERE IS NO TREE CUTTING PROPOSED AS PART OF THE PROJECT.

**SCOPE OF WORK**

STA 103+46:  
REPLACE EXISTING 60" DIA. 41' LONG CMP CULVERT WITH 9' SPAN X 5' RISE (4' CLEAR HEIGHT) X 45' LONG PRECAST CONCRETE BOX CULVERT EMBEDDED 1' BELOW STREAMBED. CONSTRUCT CONCRETE HEADWALLS AT BOTH ENDS ANGLED AT 45 DEGREES TOWARDS THE BANK.



STATE OF NEW HAMPSHIRE			
AUBURN			
DEPARTMENT OF TRANSPORTATION		BUREAU OF HIGHWAY DESIGN	
<b>SHORELAND IMPACT PLAN</b>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
44167-shoreland-plan	44167	4	4