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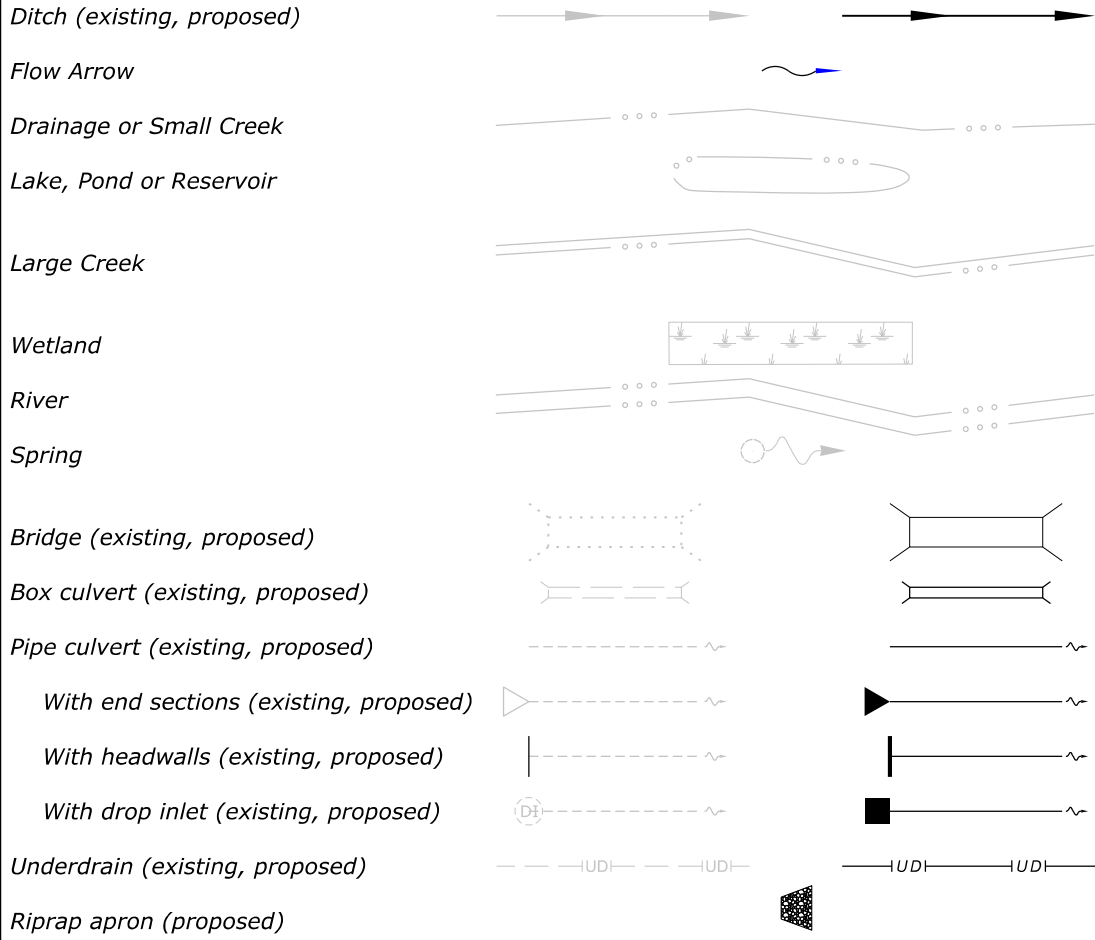
ABBREVIATIONS

¢ centerline
 Δ curve delta
 Ø diameter
A abut. abutment
 ADT average daily traffic
 aggr. aggregate
 AH ahead
 alt. alternate
 appr. approach
 asph. asphalt
B b.f. both faces
 beg. beginning, begin
 BK back
 BM bench mark
 BP balance point
 br. bridge
 brg. bearing
C CBC concrete box culvert
 c-c center to center
 clr. clear
 CMP corrugated metal pipe
 Co. county
 col. column
 conc. concrete
 constr. construction
 constr. jt. construction joint
 cont. continuous
 corr. corrugated
 cr. creek
 CS point of curve to spiral
 ctrs. centers
 CTSM contingent sum
 culv. culvert
D decr. decrement
 DHV design hour volume
 DI drop inlet
 dia. or D diameter
 diag. diagonal
 diaph. diaphragm
 dist. distance
 Dist. district
 DLC donation land claim
 dwg(s). drawing(s)
E E east
 e superelevation rate
 El. 94.066 elevation with number
 elev. elevation
 emb. embankment
 engr(s). Engineer(s)
 EOP edge of pavement
 EQ or eq. equation
 ER edge of road
 et al and others
 et ux and wife
 EW edge of water
 exc. excavation
 exp. jt. expansion joint
 ext. exterior
F f.f. fill face
 Fed. federal
 FES flared end section
 fin. finish
 ftg. footing
G ga. gage (gauge)
 galv. galvanized
 gdr. girder

H hdwl. headwall
 HES homestead entry survey
 hex. hexagon
 horiz. horizontal
 HW high water
 hwy. highway
I ID inside diameter
 incl. inclusive, including
 int. interior
J jt. joint
L L length of curve
 lam. lamination
 lat. latitude
 long. longitude
 LPSM lump sum
 Lt. or LT left
 LW low water
M mag. magnetic
 maint. maintenance
 matl. material
 max. maximum
 MGS Midwest Guardrail System
 min. minimum
 mon. monument
 mtn(s). mountain(s)
N N north
 NC normal crown
 neg. negative
 no. or # number
O o.c. on centers
 o.f. other face
 OD outside diameter
P PC point of curve
 PCC point of compound curve
 perf. perforate
 PI point of intersection
 pl. plate
 POC point on curve
 POS point on spiral
 POT point on tangent
 proj. project
 psi pounds per square inch
 PT point of tangent
 pvmt. pavement
Q quant., Qty quantities
R R radius
 R. range
 R/W right-of-way
 rd. road
 rdwy. roadway
 reconst. reconstruction
 reinf. reinforcement
 reqd. required
 res. reservoir
 Res. Reservation
 ret. wall retaining wall
 RH reference hub
 Rt. or RT right
 rte. route

S S south
 SADT seasonal average daily traffic
 SC point of spiral to curve
 sec. section
 shldr. shoulder
 spa. spacing, spaces or spaced
 spec. specification
 st. street
 ST point of spiral to tangent
 sta. station
 std. standard
 stiff. stiffener
 str. straight
 struc. structural
 sym. symmetrical
T T tangent length
 T. township
 tan. tangent
 TBM temporary bench mark
 TCE temporary construction easement
 transv. transverse
 TS point of tangent to spiral
 typ. typical
V V design speed
 vert. vertical
 vph vehicles per hour
 VPI vertical point of intersection
W W West

DRAINAGE SYMBOLS



A template for the Symbols Sheet is available on the FLH website at <https://highways.dot.gov/federal-lands/design/plan-prep/cfl/cfl-template-drawings>. The template will need to be revised to incorporate project specific information.

Show NPS PMIS and Drawing numbers if applicable

PROJECT	SHEET NUMBER
PROJECT NUMBER	A2
PROJECT NAME	

SHEET INDEX (CONTINUED FROM A1)

SHEET	DESCRIPTION
X1-X247	CROSS SECTION TITLE SHEET
X2-X58	MAINLINE CROSS SECTIONS
Y1-Y6	APPROACH ROAD CROSS SECTIONS
Z1-Z5	MAINLINE CULVERT CROSS SECTIONS

Continue Sheet index from Sheet A1 on this page

Refer to CFL policy on Sealing and Signing of A/E Documents (located on the FLH website): <https://highways.dot.gov/sites/fhwa.dot.gov/files/docs/federal-lands/pm/30091/sealing-signing-policy.pdf>

CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS

Show NPS PMIS and Drawing numbers if applicable

PROJECT	SHEET NUMBER
PROJECT NUMBER	A3
PROJECT NAME	

FENCE & CATTLE GUARD SYMBOLS

Fence (existing, proposed)		
Fence with gate (existing, proposed)		
Cattle guard (existing, proposed)		

GEOLOGIC SYMBOLS

Boring location	
Material source	

LANDSCAPING & VEGETATION SYMBOLS

Tree	
Tree line	

MAPPING SYMBOLS

Building (existing, proposed)	
Coordinate Grid Tick	
North arrow	
Railroad	
Single Track	
Double Track	
Spot elevation	
Trail	
Survey control point	

GUARDRAIL, BARRIER & WALL SYMBOLS

Guardrail (existing, proposed)	
Guardwall (proposed)	
Median & Side Barrier (existing, proposed)	
Retaining Wall (existing, proposed)	

ROADWAY SYMBOLS

Clearing/construction limits	
Slope stake limits	
Top of Cut	
Transition	
Toe of fill	
Edge of roadway (existing, proposed)	
Roadway centerline (with station ticks)	
Roadway obliteration	

RIGHT-OF-WAY SYMBOLS

Boundaries	
National	
State	
County	
City	
Township or Range line	
Section	
1/4 Section	
1/16 Section	
Bureau of Indian Affairs	
Bureau of Land Management	
National Forest	
National Park	
National Wildlife Refuge	
Easements	
Permanent (existing)	
Permanent (proposed)	
Temporary (proposed)	
Monument (as described)	
Parcel number	
Property line	
Right-of-way line (existing)	
Right-of-way line (proposed)	
Section corner (found, projected)	
1/4 Section corner (found, projected)	
1/16 Section corner (found, projected)	
SIGN SYMBOLS	
Signs	
Commercial (existing, proposed)	
Delineator (existing, proposed)	
Portable (proposed)	
Post mounted (existing, proposed)	

UTILITY SYMBOLS

Irrigation ditch		
Underground (existing, proposed)		
Surface (existing, proposed)		
Support pole (existing, proposed)		
Support pole anchor (existing, proposed)		
Street light (existing, proposed)		
Telephone pedestal (existing, proposed)		
Underground utility		
CATV (existing, proposed)		
Fiber optic (existing, proposed)		
Gas (existing, proposed)		
Oil (existing, proposed)		
Power (existing, proposed)		
Sanitary sewer (existing, proposed)		
Telephone (existing, proposed)		
Water (existing, proposed)		
Overhead utility		
CATV (existing, proposed)		
Fiber optic (existing, proposed)		
Power (existing, proposed)		
Telephone (existing, proposed)		

PROJECT SPECIFIC ABBREVIATIONS AND SYMBOLS

KSI	thousand pounds per square inch
	Subexcavation
	Wire mesh rockfall mitigation

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