

ABBREVIATIONS

℄	centerline
Δ	curve delta
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
enr(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
incr.	increment
int.	interior
J jt.	joint

L L	length of curve
lam.	lamination
lat.	latitude
long.	longitudinal
LPSM	lump sum
Lt. or LT	left
LW	low water
M mag.	magnetic
maint.	maintenance
matl.	material
max.	maximum
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

Ditch (Existing, Proposed)



Flow Arrow



Drainage or Small Creek



Lake, Pond or Reservoir



Large Creek



Wetland



River



Spring



Bridge (Existing, Proposed)



Box Culvert (Existing, Proposed)



Pipe Culvert (Existing, Proposed)



With End Sections (Existing, Proposed)



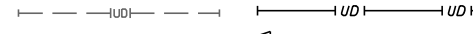
With Headwalls (Existing, Proposed)



With Drop Inlet (Existing, Proposed)



Underdrain (Existing, Proposed)

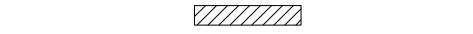


Riprap Apron (Proposed)



EROSION CONTROL SYMBOLS

Mulching, Bonded Fiber Matrix



Check Dam



Diversion Berm



Erosion Control Mat



Riprap

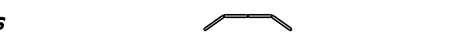


Sediment Log at:

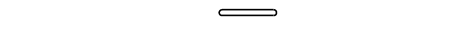
Culvert Inlet With End Section



Culvert Inlet With Head and/or Wing Walls



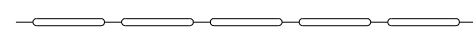
Ditch and/or Cut Slope



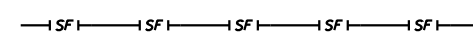
Drop Inlet



Slope Protection (Wattle)

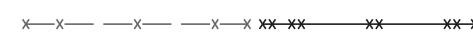


Silt Fence

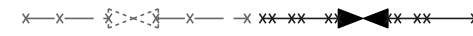


FENCE & CATTLEGUARD SYMBOLS

Fence (Existing, Proposed)



Fence w/ Gate (Existing, Proposed)



Cattleguard (Existing, Proposed)



GEOLOGIC SYMBOLS

Boring Location (Existing, Proposed)



Material Source



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REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

LANDSCAPING & VEGETATION SYMBOLS

Tree 

Treeline 

MAPPING SYMBOLS

Building (Existing, Proposed) 

Coordinate Grid Tick 


North Arrow 

Railroad Single Track 

Double Track 

Spot Elevation 

Trail 

Traverse Point (Horizontal & Vertical) 

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
 Construction & Maintenance
 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) 

GUARDRAIL, BARRIER & WALL SYMBOLS

Guardrail (Existing, Proposed) 

Guardwall (Existing, 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 

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 Booth (Existing, Proposed)  

Telephone Pedestal (Existing, Proposed)  

Underground Utility (Existing, Proposed)
 CATV
 Fiber Optic
 Gas
 Oil
 Power
 Sanitary Sewer
 Telephone
 Water

Overhead Utility Line (Existing, Proposed)
 CATV
 Fiber Optic
 Power
 Telephone

MISCELLANEOUS SYMBOLS

See Note 4 

PROJECT SPECIFIC SYMBOLS

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION
 METRIC
**CONVENTIONAL PLAN
 SYMBOLS AND ABBREVIATIONS**
 Sheet 2 of 2

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Instructions

(Conventional Plan Symbol & Abbreviations)

- Switch between models to get Metric or U.S. Customary Units Symbol Sheet and between *Sheets 1 & 2*.

Name	Model
Graphics Views	Graphics
Metric Sheet 1	Metric Sheet 1
Metric Sheet 2	Metric Sheet 2
US Customary Sheet 1	US Customary Sheet 1
US Customary Sheet 2	US Customary Sheet 2

US Customary Sh [Copy] 1 2 3 4 5 6 7 8

The Symbol Sheet drawing contains five models: Metric(Sheet 1 & 2), U.S. Customary (Sheet 1 & 2) and the Graphics model which contains the actual graphics, abbreviations and linestyles. The Graphics model is referenced into the other models where the border and project information is located. **DO NOT MODIFY THE "GRAPHICS" MODEL.** Any project specific symbols shall be placed on Sheet 2 in the right hand column. You will need linestyle resource files attached in order for the linestyles to show up and print properly.

- Grey elements are notes for the user (They are construction elements and will not plot)
- Attach project Border to drawing; it will attach in the correct location.
- Paste continuation of "INDEX OF SHEETS" from Excel spreadsheet into drawing.

	A	B	C
1	INDEX TO SHEETS		
2	SHEET	DESCRIPTION	
3	A1	TITLE SHEET	
4	A2	CONVENTIONAL PLAN SYMBOLS & ABBREVIATIONS	
5			
6			
7			
8	← 14 →	← 55 →	
9			
10			
11			

Annotations: Text Size Verdana Font (points to cell 1, B), Row Height (bracketed rows 3-4), Column Width (bracketed columns 2-3), and yellow star callouts with values 14 and 10.

Edit > Paste special



You can paste a picture of the spreadsheet or link it so it updates automatically

Place by corners and snap to grey box in Sheet 1 of Conventional Plan Symbols & Abbreviations