

Sample Plan

CONSTRUCTION PLANS ----- NARRATIVE

References:

- Design Scene: Chapter 9 - Plan and Profiles
- Technical Memorandum:
  - No. 15-03-TS-01 Design Guidelines for Locating Wet Ponds with Permanent Water Depths Along Freeways and High Speed Highways
  - No. 16-07-TS-03 Diverging Diamond Interchange Design and Implementation Guidance
  - No. 17-03-TS-01 Restricted Crossing U-Turn (RCUT) Design and Implementation Guidance
  - No. 17-12-TS-05 Shoulder Width Standards for State Highways
  - No. 17-13-TS-06 Design Speed for State Highways
  - No. 18-03-TS-02 Traveled Way Pavement Cross Slopes
  - No. 18-05-TS-03 MnPass Lanes Design and Implementation Guidelines
  - No. 18-08-TS-06 Traveled Lane Width Standards for State Highways
- Technical Manual: Chapter 6
- Standard Plates Manual: 7000 Series, 8002, 8300 series, and 9000
- Standard Plans Manual:
  - 5-297.105 Escape Lanes at Major Ramp Exits
  - 5-297.106 Standard Acceleration and Deceleration Lanes (Rural)
  - 5-297.108 Standard Acceleration and Deceleration Lanes (Urban)
  - 5-297.111 Right and Left Turn Lanes
  - 5-297.209 Acceleration and Deceleration Lane (Rural)
  - 5-297.210 Acceleration and Deceleration (Urban)
- Road Design Manual: Chapters 4-3 to 4-8, 5, 6, 12
- Miscellaneous:
  - [http://www.dot.state.mn.us/MnDOT/Bikeways Facility Design Manual](http://www.dot.state.mn.us/MnDOT/Bikeways/Facility%20Design%20Manual)
  - <http://hub.metro/design/technicalguidance.html> Pedestrian/ADA
  - <http://hub.metro/design/technicalguidance.html> Bicycle, Bikeways & Pedestrians
  - <http://hub.metro/design/technicalguidance.html> House Moving Routes

General Information:

Stationing should be clearly defined in the plan and shown at least twice per alignment per sheet.

Any major changes to Level 1 Layouts should be reviewed with Geometric Design Support Unit in Central Office.

Design cul-de-sacs with 35' (to accommodate snow plows) or 45' radius (to accommodate school buses). If a local street, check with the local government agency to see if they agree.

Coordinate proposed work with other functional groups in order to accommodate their recommendations for conduit, lighting, signing, ramp meters, signals, maintenance access, etc. Ramp meters need to be coordinated with Metro Program Committee.

Consider median crossovers on rural freeways. Consider paving these crossovers. Contact Maintenance and the State Patrol for locations and surfacing suggestions.

Label all median and island noses to appropriate Standard Plates.

Plan sheet location index box should be considered on projects with complicated plan sheet layouts.

At twin bridge structures, consider extending the slope paving between the bridges to prevent erosion and maintenance problems. Also, consider using pavement under bridges between slope paving and the roadway to limit erosion and maintenance problems. This applies to areas with narrow berms (generally 10' or less) in front of walls, as well. (Coordinate with the Bridge Office.)

Traffic barrier may be shown on the Construction Plan sheets rather than on separate Traffic Barrier Plan sheets if desired. If so, refer to the Traffic Barrier Plan Narrative.

It is recommended that construction limits be shown on the Construction Plans, unless the plan sheets would become too cluttered.

If there is bridge work within the limits of the project, determine whether timing should be eliminated on the bridge deck due to objectional noise.

On HOV medians, use B424 curb and gutter.

Tall (54") Traffic Barrier Design Type 31 should be considered for use whenever a concrete barrier is used in the Metro area. Section 10-7.06 of the Road Design Manual should be reviewed to help make the decision for using it, but the final decision on the use of Tall (54") Barrier on any project should be made in consultation with Metro Traffic. Consider horizontal sight distance when choosing the taller barrier.

For roundabouts that will be maintained by MnDOT, provide a truck apron width of a minimum of 13 feet, so that Maintenance can plow the snow off of it with a class 35 maintenance truck.

Coordinate ADA pedestrian ramp design with C.O. ADA office and Metro Traffic (if signals are involved).

Label all in place and proposed bridges.

REVISION DATE 04/10/19

23-OCT-2019

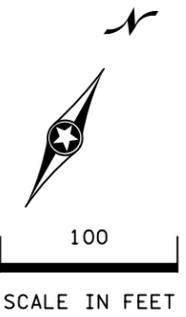
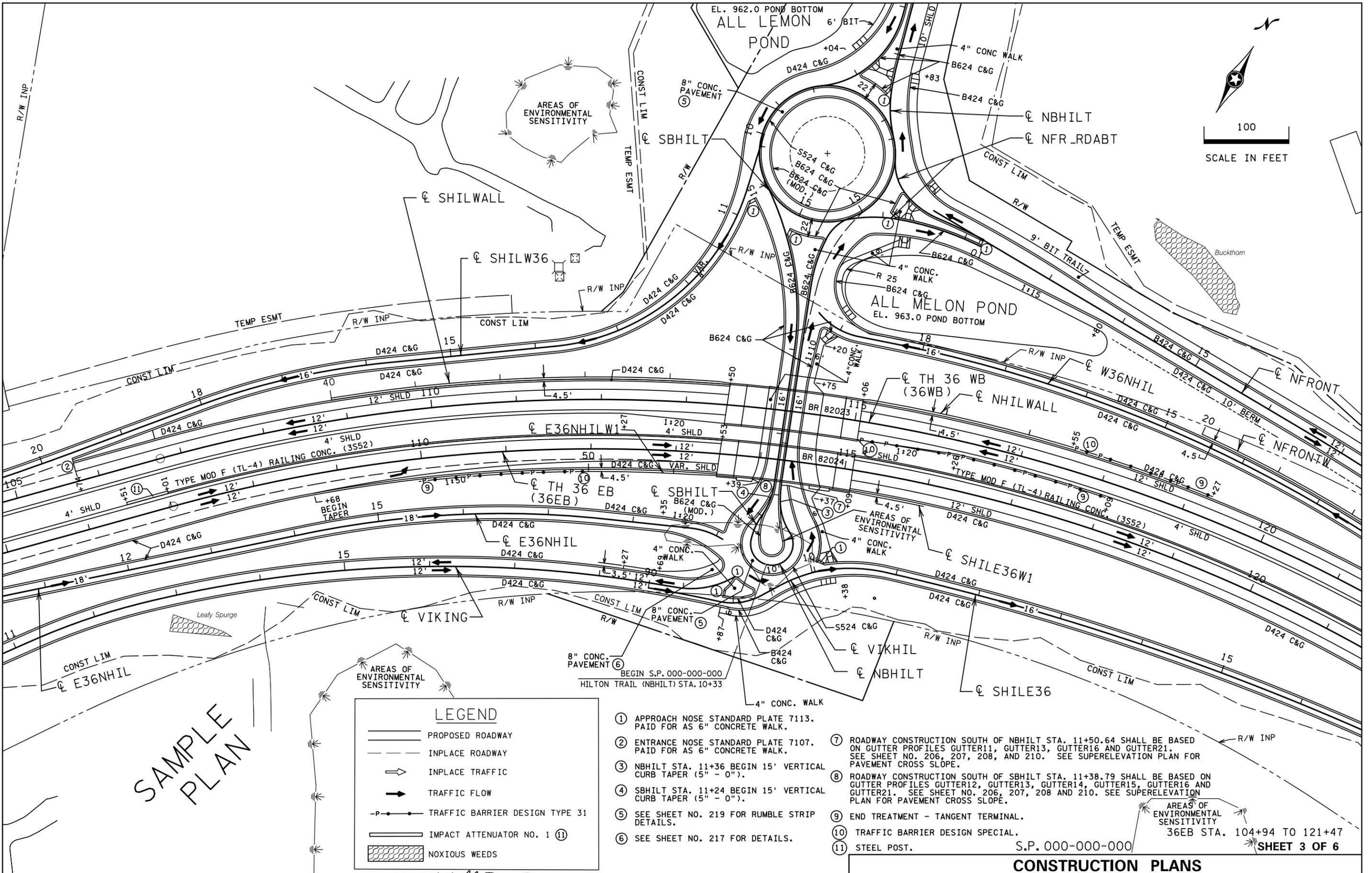
Sample Plan

CONSTRUCTION PLANS ----- CHECKLIST

- 1. Significant Topography
- 2. All Alignments shown and labeled
- 3. Begin & End of Project
- 4. Begin & End Construction
- 5. Equations
- 6. North Arrow
- 7. Stockpile Areas
- 8. Right of Way, Land Lines, Easements, Controlled Accesses, etc.
- 9. Temporary Connections (short bypasses, entrances, etc.)
- 10. Intersection and Island Radii (unless indicated on separate sheets)
- 11. Wetlands, Ponds, Rivers, Areas of Environmental Sensitivity, etc.
- 12. Municipal, County, and Township Boundaries
- 13. Guardrail, End Treatments, Bridges, Box Culverts, Overhead Signs, Existing and Proposed Signal Systems, etc. (Unless Indicated on separate sheets)
- 14. Legend
- 15. Roadways Labeled
- 16. Tapers and Roadway Dimensions
- 17. Label Concrete Curb & Gutter at Medians/Islands, Concrete Walks, Noses, etc.
- 18. Noxious Weed Areas - Identify types
- 19. Label Noise Walls and Retaining Walls
- 20. Bar Scale
- 21. Cross references to other sheets (as applicable)
- 22. Drawn by: and Checked by: Initials and Engineer's signature

REVISION DATE 04/10/19  
 PLOTTED/REVISED: 23-OCT-2019

DISTRICT #: Metro  
 I/PLOT NAME: construc  
 FILENAME: Projects\DM\_R05\W01\Project\Design\SamplePlan\English\construc.dgn



SAMPLE PLAN

LEGEND	
	PROPOSED ROADWAY
	INPLACE ROADWAY
	INPLACE TRAFFIC
	TRAFFIC FLOW
	TRAFFIC BARRIER DESIGN TYPE 31
	IMPACT ATTENUATOR NO. 1 (I)
	NOXIOUS WEEDS

- ① APPROACH NOSE STANDARD PLATE 7113. PAID FOR AS 6" CONCRETE WALK.
- ② ENTRANCE NOSE STANDARD PLATE 7107. PAID FOR AS 6" CONCRETE WALK.
- ③ NBHILT STA. 11+36 BEGIN 15' VERTICAL CURB TAPER (5" - 0").
- ④ SBHILT STA. 11+24 BEGIN 15' VERTICAL CURB TAPER (5" - 0").
- ⑤ SEE SHEET NO. 219 FOR RUMBLE STRIP DETAILS.
- ⑥ SEE SHEET NO. 217 FOR DETAILS.
- ⑦ ROADWAY CONSTRUCTION SOUTH OF NBHILT STA. 11+50.64 SHALL BE BASED ON GUTTER PROFILES GUTTER11, GUTTER13, GUTTER16 AND GUTTER21. SEE SHEET NO. 206, 207, 208, AND 210. SEE SUPERELEVATION PLAN FOR PAVEMENT CROSS SLOPE.
- ⑧ ROADWAY CONSTRUCTION SOUTH OF SBHILT STA. 11+38.79 SHALL BE BASED ON GUTTER PROFILES GUTTER12, GUTTER13, GUTTER14, GUTTER15, GUTTER16 AND GUTTER21. SEE SHEET NO. 206, 207, 208 AND 210. SEE SUPERELEVATION PLAN FOR PAVEMENT CROSS SLOPE.
- ⑨ END TREATMENT - TANGENT TERMINAL.
- ⑩ TRAFFIC BARRIER DESIGN SPECIAL.
- ⑪ STEEL POST. S.P. 000-000-000

AREAS OF ENVIRONMENTAL SENSITIVITY  
 36EB STA. 104+94 TO 121+47

**CONSTRUCTION PLANS**