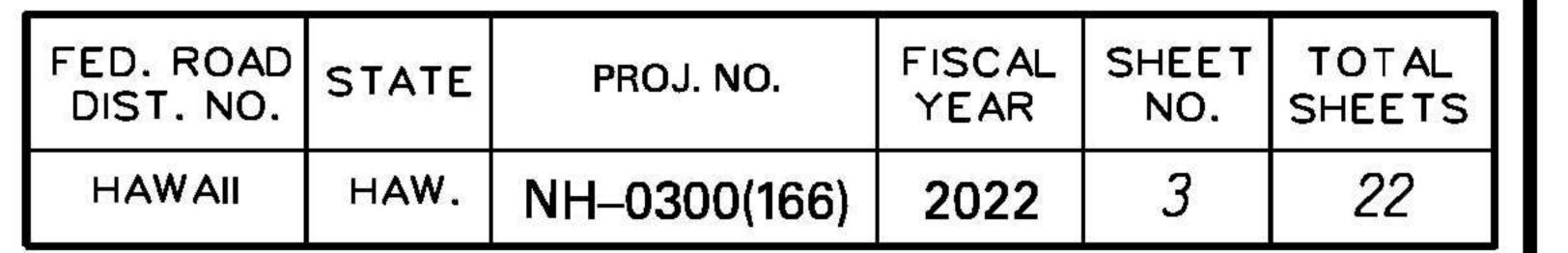
GENERAL NOTES

- . The scope of work for this project includes the removal and replacement of new guardrails and guardrail end terminals that do not meet current State Highway Standards safety guidelines.
- 2. The Contractor is reminded of the requirements of Subsection 105.16 Subcontract Requirements, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
- 3. The Contractor's attention is directed to the following Sections: Subsection 104.11 Utilities and Services; Subsection 107.06 Contractor Duty Regarding Public Convenience; and Section 645 Work Zone Traffic Control.
- 4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
- 5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the Various Contract Items and will not be paid for seperately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
- 6. The Contractor shall notify, the Oahu Transit Services, Lowell Tom (848-4578) or Ed Sniffen (848-4571), two (2) weeks prior to construction, informing them of location, scope of work, and closure of Name of Highway and/or traffic lanes and dates of closure. (For Oahu projects only. For other islands, check with your local bus company.)
- 7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
- 8. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to the Various Contract Items and will not be paid for separately.
- 9. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
- 10. Contractor to restore all landscaped areas damaged according to Section 641, Hydro-Mulch Seeding. Grass restoration shall be considered incidental to Various Contract Items.
- 11. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to Sidewalk or the Various Contract Items and will not be paid for separately.
- 12. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to Bulk of Work or the Various Contract Items and will not be paid for separately.

- 13. When installing guardrail posts within 3' from the waterline, the post shall be hand placed and not driven. the holes shall be backfilled and compressible material, ASTM C33 Coarse Aggregate, Size no. 57. This work shall be considered incidental to Guardrail items and shall not be paid for seperately.
- 14. Obstructions and nesting costs shall be considered incidental to Guardrail items and shall not be paid for seperately.
- 15. The Contractor shall provide and maintain a temporary pedestriansafe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved at least an inch of Asphalt Concrete Pavement, Mix No. IV or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.]. This work shall be incidental to Curb Ramps, or Sidewalk, or the Various Contract Items and will not be paid for separately.
- 16. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at Telephone No. 831-6712.
- 17. Probing for guardrail utilities shall be considered incidental to Guardrail Items and will not be paid for separately.
- 18. Drilling of holes shall be considered incidental to Various Guardrail Items and will not be paid for separately.
- 19. Any unfinished shoulder widening, metal railings, guardrails, and median drainage work shall not be left unshielded at the end of the work day. If such work is not completed within the work day, that section shall be shielded by NCHRP TL-2 rated portable physical barriers. The physical barriers shall be protected by end treatments in compliance with NCHRP TL-2 and the manufacturer's reccommendations/requirements and State Standard Plan TE-43. At the end of the work day, all travel lanes shall be open. The contractor shall develop a Traffic Control Plan to include these portable physical barriers and all necessary Traffic Control Devices and shall be approved by the Engineer. All work mentioned above including furnishing, installing, and maintaining physical barriers shall be considered incidental to Contract Item No. 645,1000 Traffic Control and shall not be paid for separately.
- 20. Existing drainage system will be functional at all times during. construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to Various Contract Items.
- 21. Any work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to other Various Contract Items and will not be paid for separately.
- 22. The exact location and limits of guardrail improvements shall be determined in the field by the Engineer.
- 23. Removal of existing guardrail sections and end treatments shall be considered incidental to Various Guardrail Items and will not be paid for separately.
- 24. The Contractor shall verify the exact location of any underground utilities within the project limits prior to installing guardrail posts. The Contractor shall adjust new guardrail posts within manufacturer's specifications to account for the actual locations of underground utilities. Probing for utilities and adjusting new guardrail posts shall be considered incidental to various items of work. The Contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at the Contractor's expenses.



25. Planting and ashalt concrete around guardrails shall be considered incidential to Guardrail Items and will not be paid for separately.

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10/27/22 1 Revised notes

DATE REVISION

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES \$ LEGEND

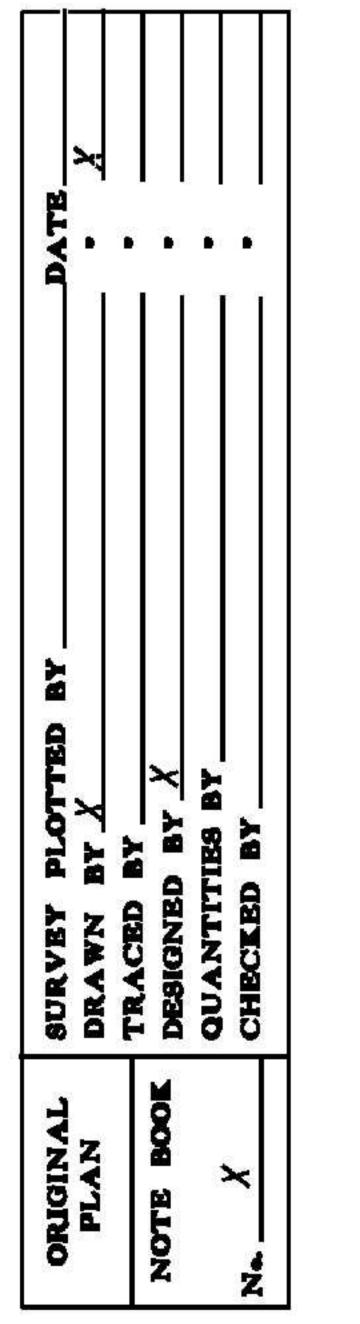
GUARDRAIL AND SHOULDER IMPROVEMENTS


At Various Locations, Phase 2, Oahu

Federal Aid Project No. NH-0300(166)


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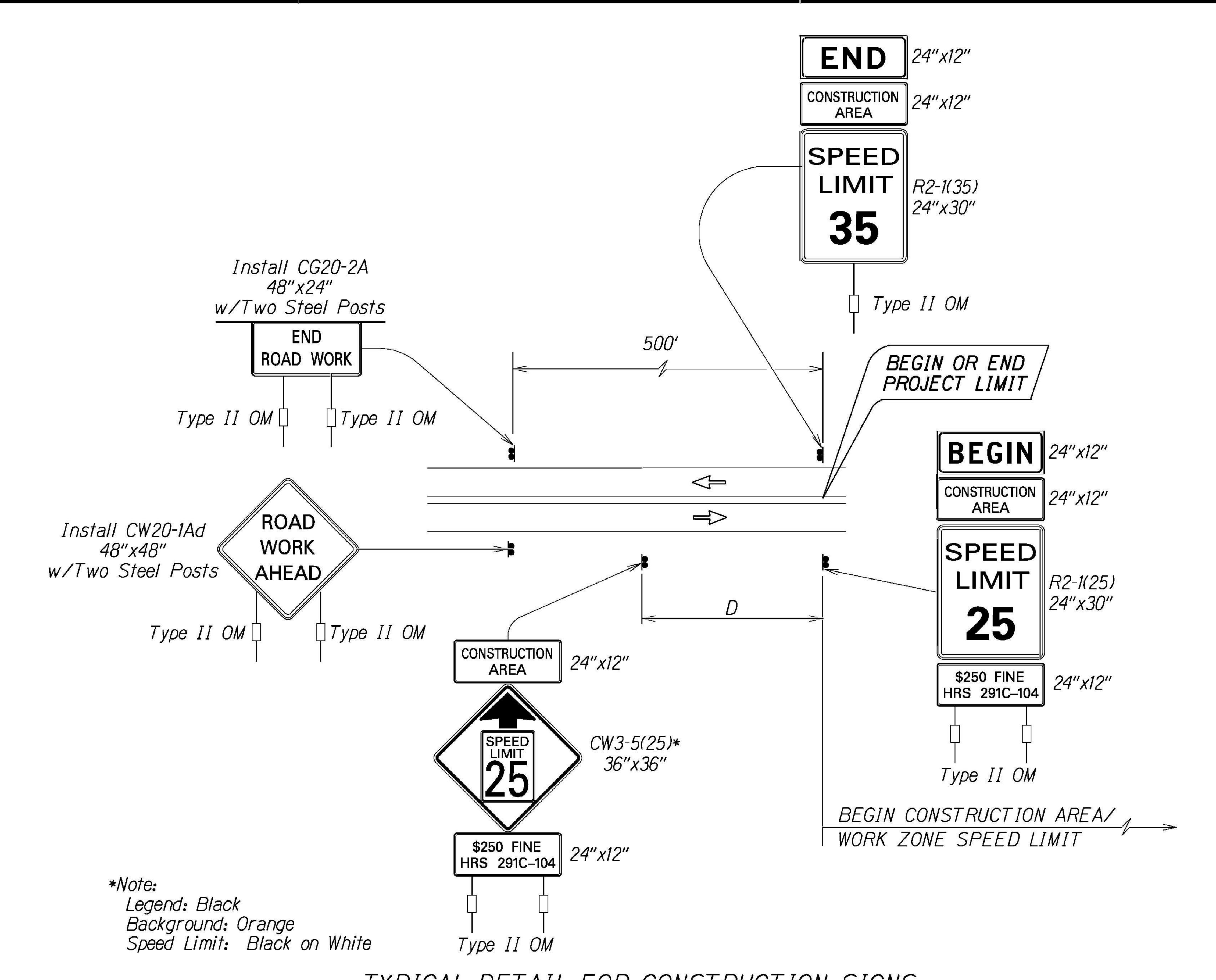
SHEET No. 1 OF 2 SHEETS





ADD. 20





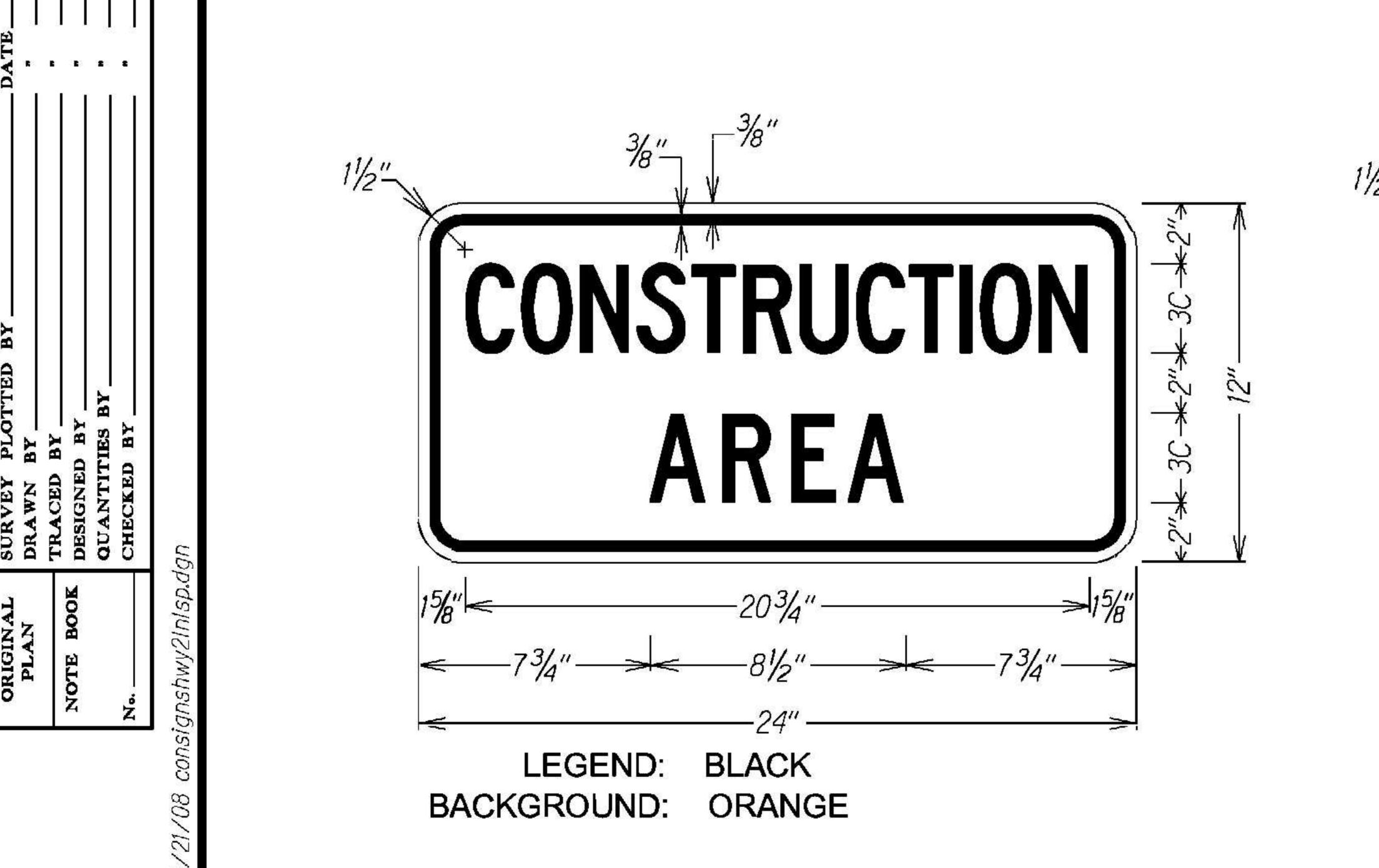
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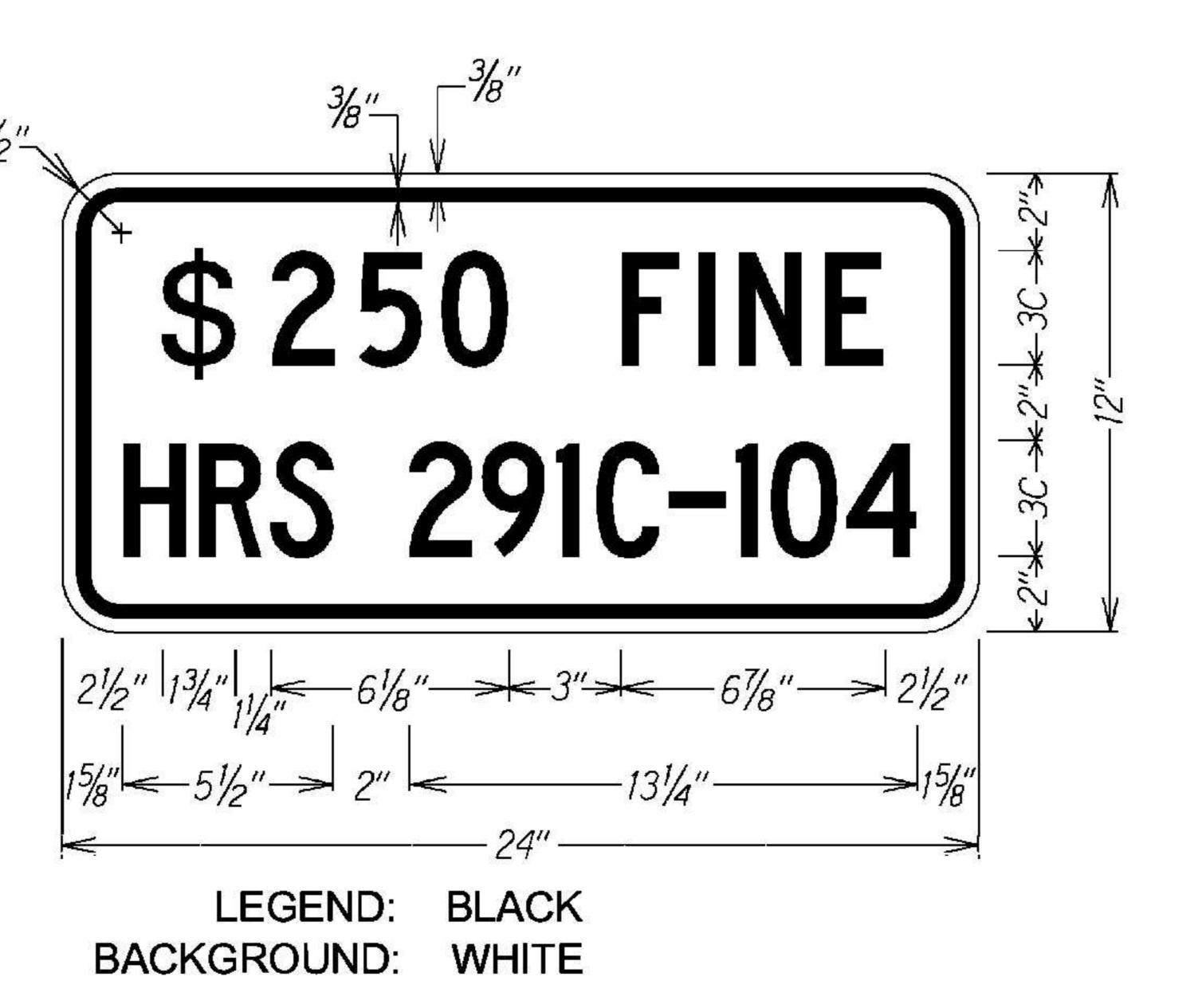
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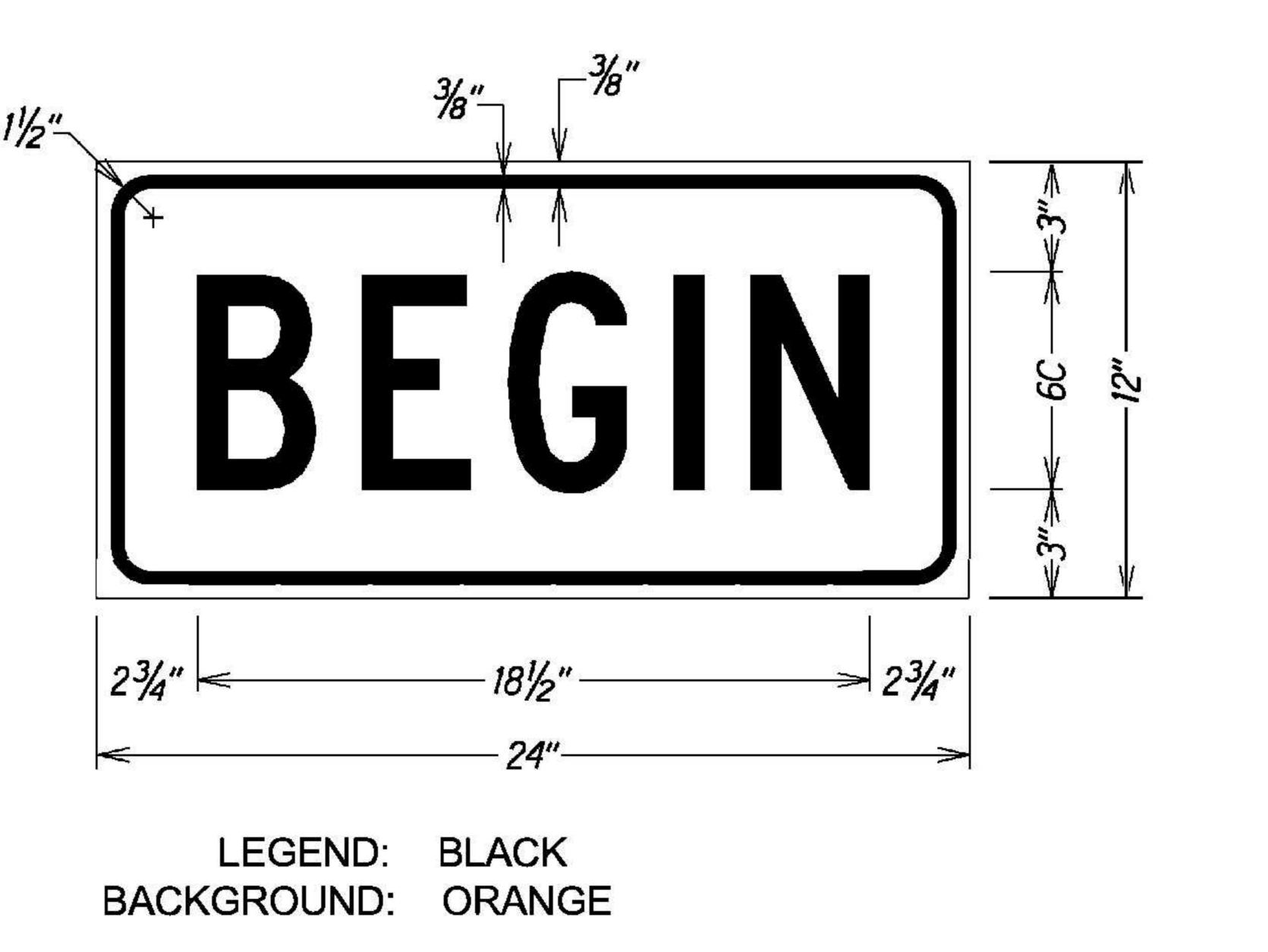
Work Zone Notes:

- 1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
- 2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(25) and CW3-5(25) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
- 3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
- 4. Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.0100 Traffic Control.
- 5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
- 6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
- 7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.0100 Traffic Control.

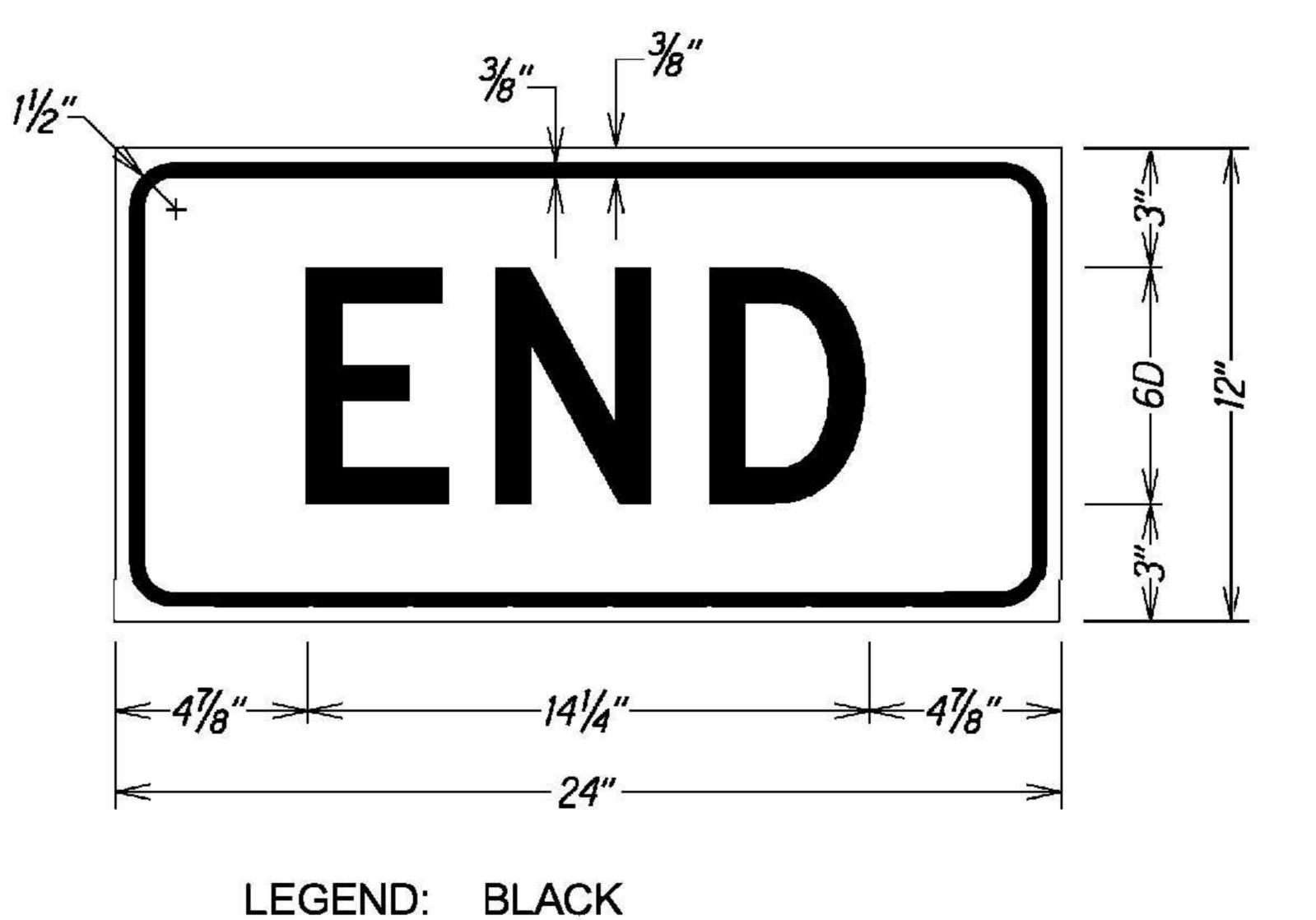




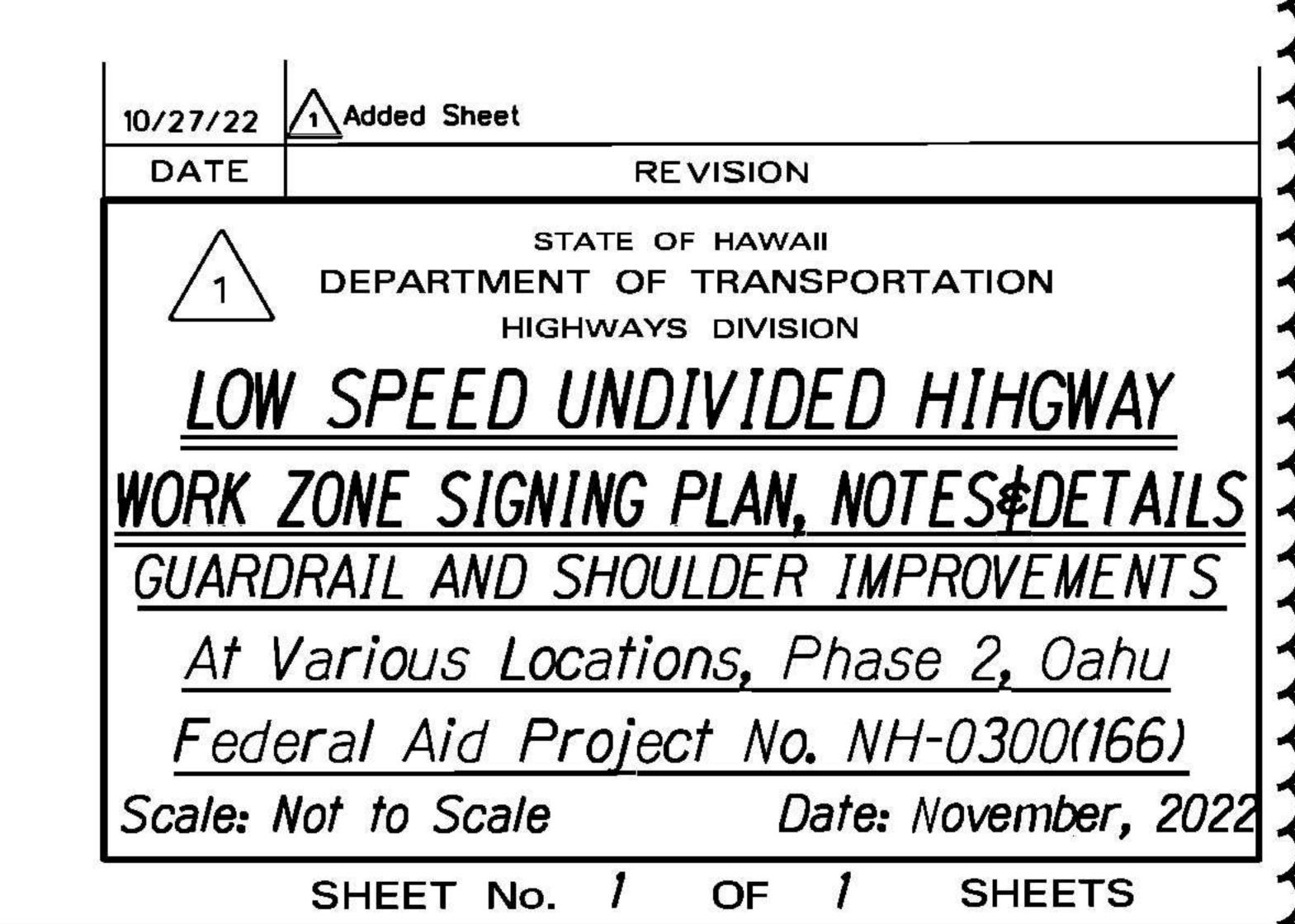




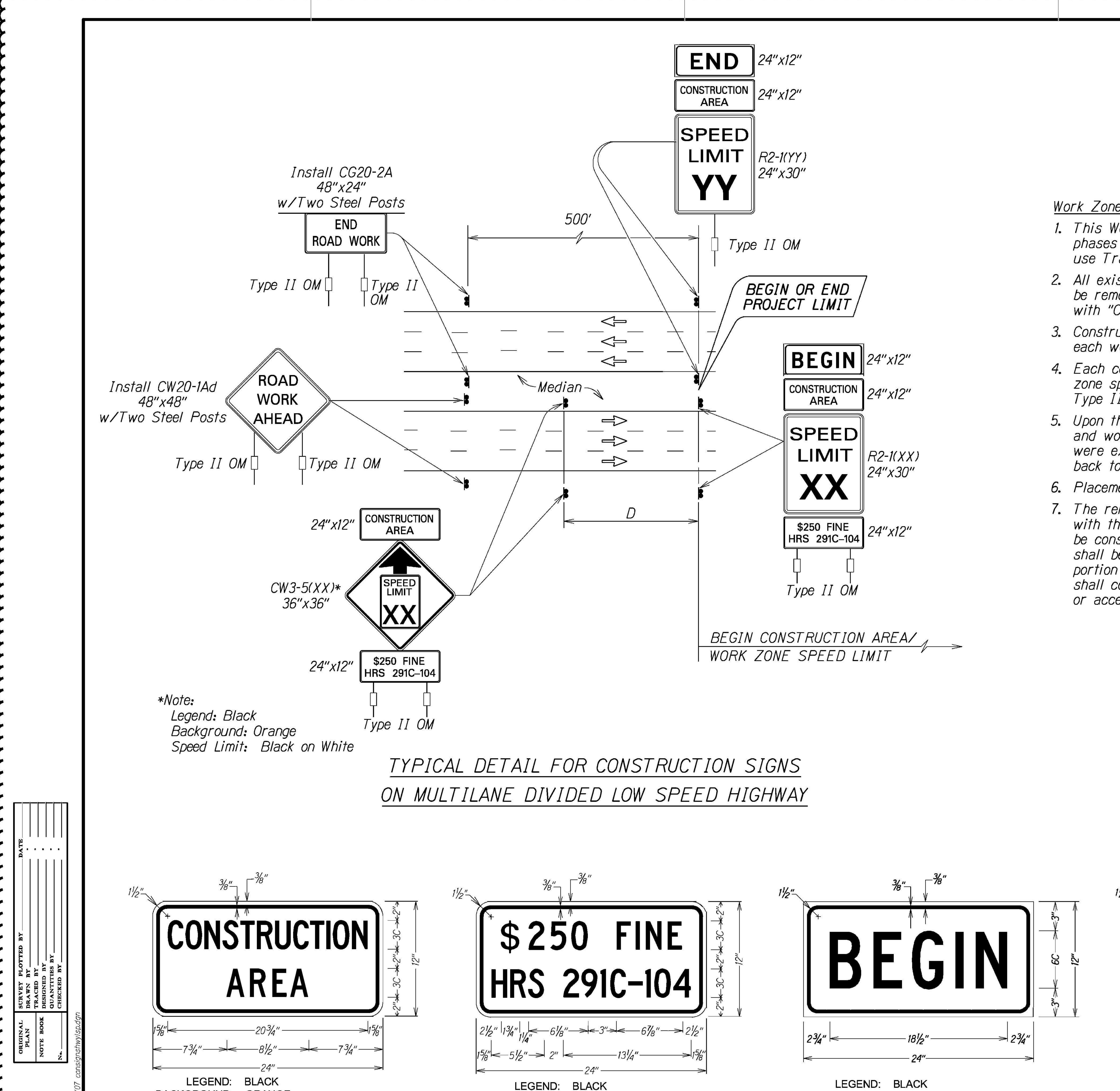
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BACKGROUND: ORANGE



ADD. 22 S-1



BACKGROUND: WHITE

BACKGROUND: ORANGE

PROJ. NO. NH-0300(166)

Work Zone Notes:

BACKGROUND: ORANGE

- 1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
- 2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and CW3-5(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
- 3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
- 4. Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type İl OM shall be considered incidental to Item No. 621.7100, Construction Sign with Posts.
- 5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project imits shall be restored back to their original locations and configurations.
- 6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
- 7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 621.7100, Construction Sign with Posts. Sign covers shall be commercially manufactured and HDOT approved. Sign covers shall not allow any portion of the sign being covered to be visible. If the sign has more than one side, cover shall completely cover each side. "Homemade" or "field made" covers shall not be used or accepted.

TABLE I GUIDELINE FOR ADVANCE PLACEMENT OF SPEED REDUCTION SIGN CW3–5(XX), CONSTRUCTION AREA SPEED LIMIT		
EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
< <u><25</u>	EXIST. SPEED LIMIT TO REMAIN	
30	25	100
35	25	175
40	30	175

