

for location, construction, protection of traffic, maintenance, access restriction, and any special conditions applicable to each installation.

(b) A general description of the size, type, nature, and extent of the utility facilities being located within the highway right-of-way.

(c) Adequate drawings or sketches showing the existing and/or proposed location of the utility facilities within the highway right-of-way with respect to the existing and/or planned highway improvements, the traveled way, the right-of-way lines and, where applicable, the control of access lines and approved access points.

(d) The extent of liability and responsibilities associated with future adjustment of the utilities to accommodate highway improvements.

(e) The action to be taken in case of noncompliance with the highway agency's requirements.

(f) Other provisions as deemed necessary to comply with laws and regulations.

(Approved by the Office of Management and Budget under control number 2125-0522)

§ 645.215 Approvals.

(a) Each State highway agency shall submit a statement to the FHWA on the authority of utilities to use and occupy the right-of-way of State highways, the State highway agency's power to regulate such use, and the policies the State highway agency employs or proposes to employ for accommodating utilities within the right-of-way Federal-aid highways under its jurisdiction. Statements previously submitted and approved by the FHWA need not be resubmitted provided the statement adequately addresses the requirements of this part. When revisions are deemed necessary the changes to the previously approved statement may be submitted separately to the FHWA for approval. The State highway agency shall include similar information on the use and occupancy of such highways by private lines where permitted. The State shall identify those areas, if any, of Federal-aid highways within its borders where the State highway agency is without legal authority to regulate use by utilities. The statement shall address the nature

of the formal agreements with local officials required by § 645.209(g) of this part. It is expected that the statements required by this part or necessary revisions to previously submitted and approved statements will be submitted to FHWA within 1 year of the effective date of this regulation.

(b) Upon determination by the FHWA that a State highway agency's policies satisfy the provisions of 23 U.S.C. 109, 111, and 116, and 23 CFR 1.23 and 1.27, and meet the requirements of this regulation, the FHWA will approve their use on Federal-aid highway projects in that State

(c) Any changes, additions or deletions the State highway agency proposes to the approved policies are subject to FHWA approval.

(d) When a utility files a notice or makes an individual application or request to a State highway agency to use or occupy the right-of-way of a Federal-aid highway project, the State highway agency is not required to submit the matter to the FHWA for prior concurrence, except under the following circumstances:

(1) The proposed installation is not in accordance with this regulation or the State highway agency's utility accommodation policy approved by the FHWA for use on Federal-aid highway projects.

(2) Longitudinal installations of private lines.

(e) The State highway agency's practices under the policies or agreements approved under § 645.215(b) of this part shall be periodically reviewed by the FHWA.

(Information collection requirements in paragraph (a) were approved by the Office of Management and Budget under control number 2125-0514)

[50 FR 20354, May 15, 1985, as amended at 53 FR 2834, Feb. 2, 1988; 60 FR 34851, July 5, 1995]

PART 646—RAILROADS

Subpart A—Railroad-Highway Insurance Protection

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- 646.200 Purpose and applicability.
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APPENDIX TO SUBPART B—HORIZONTAL AND VERTICAL CLEARANCE PROVISIONS FOR OVERPASS AND UNDERPASS STRUCTURES

AUTHORITY: 23 U.S.C. 109(e), 120(c), 130, 133(d)(1), and 315; 49 CFR 1.48(b).

Subpart A—Railroad-Highway Insurance Protection

SOURCE: 39 FR 36474, Oct. 10, 1974, unless otherwise noted.

§ 646.101 Purpose.

The purpose of this part is to prescribe provisions under which Federal funds may be applied to the costs of public liability and property damage insurance obtained by contractors (a) for their own operations, and (b) on behalf of railroads on or about whose right-of-way the contractors are required to work in the construction of highway projects financed in whole or in part with Federal funds.

§ 646.103 Application.

(a) This part applies:

(1) To a contractors' legal liability for bodily injury to, or death of, persons and for injury to, or destruction of, property.

(2) To the liability which may attach to railroads for bodily injury to, or death of, persons and for injury to, or destruction of, property.

(3) To damage to property owned by or in the care, custody or control of the railroads, both as such liability or damage may arise out of the contractor's operations, or may result from work performed by railroads at or about railroad rights-of-way in connec-

tion with projects financed in whole or in part with Federal funds.

(b) Where the highway construction is under the direct supervision of the Federal Highway Administration (FHWA), all references herein to the State shall be considered as references to the FHWA.

§ 646.105 Contractor's public liability and property damage insurance.

(a) Contractors may be subject to liability with respect to bodily injury to or death of persons, and injury to, or destruction of property, which may be suffered by persons other than their own employees as a result of their operations in connection with construction of highway projects located in whole or in part within railroad right-of-way and financed in whole or in part with Federal funds. Protection to cover such liability of contractors shall be furnished under regular contractors' public liability and property damage insurance policies issued in the names of the contractors. Such policies shall be so written as to furnish protection to contractors respecting their operations in performing work covered by their contract.

(b) Where a contractor sublets a part of the work on any project to a subcontractor, the contractor shall be required to secure insurance protection in his own behalf under contractor's public liability and property damage insurance policies to cover any liability imposed on him by law for damages because of bodily injury to, or death of, persons and injury to, or destruction of, property as a result of work undertaken by such subcontractors. In addition, the contractor shall provide for and on behalf of any such subcontractors protection to cover like liability imposed upon the latter as a result of their operations by means of separate and individual contractor's public liability and property damage policies; or, in the alternative, each subcontractor shall provide satisfactory insurance on his own behalf to cover his individual operations.

(c) The contractor shall furnish to the State highway department evidence satisfactory to such department and to the FHWA that the insurance coverages required herein have been

provided. The contractor shall also furnish a copy of such evidence to the railroad or railroads involved. The insurance specified shall be kept in force until all work required to be performed shall have been satisfactorily completed and accepted in accordance with the contract under which the construction work is undertaken.

§ 646.107 Railroad protective insurance.

In connection with highway projects for the elimination of hazards of railroad-highway crossings and other highway construction projects located in whole or in part within railroad right-of-way, railroad protective liability insurance shall be purchased on behalf of the railroad by the contractor. The standards for railroad protective insurance established by §§ 646.109 through 646.111 shall be adhered to insofar as the insurance laws of the State will permit.

[39 FR 36474, Oct. 10, 1974, as amended at 47 FR 33955, Aug. 5, 1982]

§ 646.109 Types of coverage.

(a) Coverage shall be limited to damage suffered by the railroad on account of occurrences arising out of the work of the contractor on or about the railroad right-of-way, independent of the railroad's general supervision or control, except as noted in § 646.109(b) (4).

(b) Coverage shall include:

- (1) Death of or bodily injury to passengers of the railroad and employees of the railroad not covered by State workmen's compensation laws;
- (2) Personal property owned by or in the care, custody or control of the railroads;
- (3) The contractor, or any of his agents or employees who suffer bodily injury or death as the result of acts of the railroad or its agents, regardless of the negligence of the railroad;
- (4) Negligence of only the following classes of railroad employees:
 - (i) Any supervisory employee of the railroad at the job site;
 - (ii) Any employee of the railroad while operating, attached to, or engaged on, work trains or other railroad equipment at the job site which are assigned exclusively to the contractor; or

(iii) Any employee of the railroad not within (b)(4) (i) or (ii) who is specifically loaned or assigned to the work of the contractor for prevention of accidents or protection of property, the cost of whose services is borne specifically by the contractor or governmental authority.

§ 646.111 Amount of coverage.

(a) The maximum dollar amounts of coverage to be reimbursed from Federal funds with respect to bodily injury, death and property damage is limited to a combined amount of \$2 million per occurrence with an aggregate of \$6 million applying separately to each annual period except as provided in paragraph (b) of this section.

(b) In cases involving real and demonstrable danger of appreciably higher risks, higher dollar amounts of coverage for which premiums will be reimbursable from Federal funds shall be allowed. These larger amounts will depend on circumstances and shall be written for the individual project in accordance with standard underwriting practices upon approval of the FHWA.

[39 FR 36474, Oct. 10, 1974, as amended at 47 FR 33955, Aug. 5, 1982]

Subpart B—Railroad-Highway Projects

SOURCE: 40 FR 16059, Apr. 9, 1975, unless otherwise noted.

§ 646.200 Purpose and applicability.

(a) The purpose of this subpart is to prescribe policies and procedures for advancing Federal-aid projects involving railroad facilities.

(b) This subpart, and all references hereinafter made to *projects*, applies to Federal-aid projects involving railroad facilities, including projects for the elimination of hazards of railroad-highway crossings, and other projects which use railroad properties or which involve adjustments required by highway construction to either railroad facilities or facilities that are jointly owned or used by railroad and utility companies.

(c) Additional instructions for projects involving the elimination of hazards of railroad/highway grade

crossings pursuant to 23 U.S.C. 130 are set forth in 23 CFR part 924.

(d) Procedures on reimbursement for projects undertaken pursuant to this subpart are set forth in 23 CFR part 140, subpart I.

(e) Procedures on insurance required of contractors working on or about railroad right-of-way are set forth in 23 CFR part 646, subpart A.

[40 FR 16059, Apr. 9, 1975, as amended at 45 FR 20795, Mar. 31, 1980; 62 FR 45328, Aug. 27, 1997]

§ 646.202 [Reserved]

§ 646.204 Definitions.

For the purposes of this subpart, the following definitions apply:

Active warning devices means those traffic control devices activated by the approach or presence of a train, such as flashing light signals, automatic gates and similar devices, as well as manually operated devices and crossing watchmen, all of which display to motorists positive warning of the approach or presence of a train.

Company shall mean any railroad or utility company including any wholly owned or controlled subsidiary thereof.

Construction shall mean the actual physical construction to improve or eliminate a railroad-highway grade crossing or accomplish other railroad involved work.

A *diagnostic team* means a group of knowledgeable representatives of the parties of interest in a railroad-highway crossing or a group of crossings.

Main line railroad track means a track of a principal line of a railroad, including extensions through yards, upon which trains are operated by timetable or train order or both, or the use of which is governed by block signals or by centralized traffic control.

Passive warning devices means those types of traffic control devices, including signs, markings and other devices, located at or in advance of grade crossings to indicate the presence of a crossing but which do not change aspect upon the approach or presence of a train.

Preliminary engineering shall mean the work necessary to produce construction plans, specifications, and estimates to the degree of completeness

required for undertaking construction thereunder, including locating, surveying, designing, and related work.

Railroad shall mean all rail carriers, publicly-owned, private, and common carriers, including line haul freight and passenger railroads, switching and terminal railroads and passenger carrying railroads such as rapid transit, commuter and street railroads.

Utility shall mean the lines and facilities for producing, transmitting or distributing communications, power, electricity, light, heat, gas, oil, water, steam, sewer and similar commodities.

[40 FR 16059, Apr. 9, 1975, as amended at 62 FR 45328, Aug. 27, 1997]

§ 646.206 Types of projects.

(a) Projects for the elimination of hazards, to both vehicles and pedestrians, of railroad-highway crossings may include but are not limited to:

- (1) Grade crossing elimination;
- (2) Reconstruction of existing grade separations; and
- (3) Grade crossing improvements.

(b) Other railroad-highway projects are those which use railroad properties or involve adjustments to railroad facilities required by highway construction but do not involve the elimination of hazards of railroad-highway crossings. Also included are adjustments to facilities that are jointly owned or used by railroad and utility companies.

§ 646.208 Funding.

(a) Railroad/highway crossing projects may be funded through the Federal-aid funding source appropriate for the involved project.

(b) Projects for the elimination of hazards at railroad/highway crossings may, at the option of the State, be funded with the funds provided by 23 U.S.C. 133(d)(1).

[62 FR 45328, Aug. 27, 1997]

§ 646.210 Classification of projects and railroad share of the cost.

(a) State laws requiring railroads to share in the cost of work for the elimination of hazards at railroad-highway crossings shall not apply to Federal-aid projects.

(b) Pursuant to 23 U.S.C. 130(b), and 49 CFR 1.48:

(1) Projects for grade crossing improvements are deemed to be of no ascertainable net benefit to the railroads and there shall be no required railroad share of the costs.

(2) Projects for the reconstruction of existing grade separations are deemed to generally be of no ascertainable net benefit to the railroad and there shall be no required railroad share of the costs, unless the railroad has a specific contractual obligation with the State or its political subdivision to share in the costs.

(3) On projects for the elimination of existing grade crossings at which active warning devices are in place or ordered to be installed by a State regulatory agency, the railroad share of the project costs shall be 5 percent.

(4) On projects for the elimination of existing grade crossings at which active warning devices are not in place and have not been ordered installed by a State regulatory agency, or on projects which do not eliminate an existing crossing, there shall be no required railroad share of the project cost.

(c) The required railroad share of the cost under §646.210(b) (3) shall be based on the costs for preliminary engineering, right-of-way and construction within the limits described below:

(1) Where a grade crossing is eliminated by grade separation, the structure and approaches required to transition to a theoretical highway profile which would have been constructed if there were no railroad present, for the number of lanes on the existing highway and in accordance with the current design standards of the State highway agency.

(2) Where another facility, such as a highway or waterway, requiring a bridge structure is located within the limits of a grade separation project, the estimated cost of a theoretical structure and approaches as described in §646.210(c) (1) to eliminate the railroad-highway grade crossing without considering the presence of the waterway or other highway.

(3) Where a grade crossing is eliminated by railroad or highway relocation, the actual cost of the relocation project, the estimated cost of the relocation project, or the estimated cost of

a structure and approaches as described in §646.210(c)(1), whichever is less.

(d) Railroads may voluntarily contribute a greater share of project costs than is required. Also, other parties may voluntarily assume the railroad's share.

§646.212 Federal share.

(a) *General.* (1) Federal funds are not eligible to participate in costs incurred solely for the benefit of the railroad.

(2) At grade separations Federal funds are eligible to participate in costs to provide space for more tracks than are in place when the railroad establishes to the satisfaction of the State highway agency and FHWA that it has a definite demand and plans for installation of the additional tracks within a reasonable time.

(3) The Federal share of the cost of a grade separation project shall be based on the cost to provide horizontal and/or vertical clearances used by the railroad in its normal practice subject to limitations as shown in the appendix or as required by a State regulatory agency.

(b) The Federal share of railroad/highway crossing projects may be:

(1) Regular pro rata sharing as provided by 23 U.S.C. 120(a) and 120(b).

(2) One hundred percent Federal share, as provided by 23 U.S.C. 120(c).

(3) Ninety percent Federal share for funds made available through 23 U.S.C. 133(d)(1).

[40 FR 16059, Apr. 9, 1975, as amended at 47 FR 33955, Aug. 5, 1982; 53 FR 32218, Aug. 24, 1988; 62 FR 45328, Aug. 27, 1997]

§646.214 Design.

(a) *General.* (1) Facilities that are the responsibility of the railroad for maintenance and operation shall conform to the specifications and design standards used by the railroad in its normal practice, subject to approval by the State highway agency and FHWA.

(2) Facilities that are the responsibility of the highway agency for maintenance and operation shall conform to the specifications and design standards and guides used by the highway agency in its normal practice for Federal-aid projects.

(b) *Grade crossing improvements.* (1) All traffic control devices proposed shall

comply with the latest edition of the Manual on Uniform Traffic Control Devices for Streets and Highways supplemented to the extent applicable by State standards.

(2) Pursuant to 23 U.S.C. 109(e), where a railroad-highway grade crossing is located within the limits of or near the terminus of a Federal-aid highway project for construction of a new highway or improvement of the existing roadway, the crossing shall not be opened for unrestricted use by traffic or the project accepted by FHWA until adequate warning devices for the crossing are installed and functioning properly.

(3)(i) *Adequate warning devices*, under § 646.214(b) (2) or on any project where Federal-aid funds participate in the installation of the devices are to include automatic gates with flashing light signals when one or more of the following conditions exist:

(A) Multiple main line railroad tracks.

(B) Multiple tracks at or in the vicinity of the crossing which may be occupied by a train or locomotive so as to obscure the movement of another train approaching the crossing.

(C) High Speed train operation combined with limited sight distance at either single or multiple track crossings.

(D) A combination of high speeds and moderately high volumes of highway and railroad traffic.

(E) Either a high volume of vehicular traffic, high number of train movements, substantial numbers of schoolbuses or trucks carrying hazardous materials, unusually restricted sight distance, continuing accident occurrences, or any combination of these conditions.

(F) A diagnostic team recommends them.

(ii) In individual cases where a diagnostic team justifies that gates are not appropriate, FHWA may find that the above requirements are not applicable.

(4) For crossings where the requirements of § 646.214(b) (3) are not applicable, the type of warning device to be installed, whether the determination is made by a State regulatory agency, State highway agency, and/or the railroad, is subject to the approval of FHWA.

(c) *Grade crossing elimination*. All crossings of railroads and highways at grade shall be eliminated where there is full control of access on the highway (a freeway) regardless of the volume of railroad or highway traffic.

[40 FR 16059, Apr. 9, 1975, as amended at 47 FR 33955, Aug. 5, 1982; 62 FR 45328, Aug. 27, 1997]

§ 646.216 General procedures.

(a) *General*. Unless specifically modified herein, applicable Federal-aid procedures govern projects undertaken pursuant to this subpart.

(b) *Preliminary engineering and engineering services*. (1) As mutually agreed to by the State highway agency and railroad, and subject to the provisions of § 646.216(b) (2), preliminary engineering work on railroad-highway projects may be accomplished by one of the following methods:

(i) The State or railroad's engineering forces;

(ii) An engineering consultant selected by the State after consultation with the railroad, and with the State administering the contract; or

(iii) An engineering consultant selected by the railroad, with the approval of the State and with the railroad administering the contract.

(2) Where a railroad is not adequately staffed, Federal-aid funds may participate in the amounts paid to engineering consultants and others for required services, provided such amounts are not based on a percentage of the cost of construction, either under contracts for individual projects or under existing written continuing contracts where such work is regularly performed for the railroad in its own work under such contracts at reasonable costs.

(c) *Rights-of-way*. (1) Acquisition of right-of-way by a State highway agency on behalf of a railroad or acquisition of nonoperating real property from a railroad shall be in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 U.S.C. 4601 *et seq.*) and applicable FHWA right-of-way procedures in 23 CFR, chapter I, subchapter H. On projects for the elimination of hazards of railroad-highway crossings by the relocation of railroads, acquisition or replacement right-of-way by a railroad

shall be in accordance with 42 U.S.C. 4601 *et seq.*

(2) Where buildings and other depreciable structures of the railroad (such as signal towers, passenger stations, depots, and other buildings, and equipment housings) which are integral to operation of railroad traffic are wholly or partly affected by a highway project, the costs of work necessary to functionally restore such facilities are eligible for participation. However, when replacement of such facilities is necessary, credits shall be made to the cost of the project for:

(i) Accrued depreciation, which is that amount based on the ratio between the period of actual length of service and total life expectancy applied to the original cost.

(ii) Additions or improvements which provide higher quality or increased service capability of the facility and which are provided solely for the benefit of the railroad.

(iii) Actual salvage value of the material recovered from the facility being replaced. Total credits to a project shall not be required in excess of the replacement cost of the facility.

(3) Where Federal funds participate in the cost of replacement right-of-way, there will be no charge to the project for the railroad's existing right-of-way being transferred to the State highway agency except when the value of the right-of-way being taken exceeds the value of the replacement right-of-way.

(d) *State-railroad agreements.* (1) Where construction of a Federal-aid project requires use of railroad properties or adjustments to railroad facilities, there shall be an agreement in writing between the State highway agency and the railroad company.

(2) The written agreement between the State and the railroad shall, as a minimum include the following, where applicable:

(i) The provisions of this subpart and of 23 CFR part 140, subpart I, incorporated by reference.

(ii) A detailed statement of the work to be performed by each party.

(iii) Method of payment (either actual cost or lump sum),

(iv) For projects which are not for the elimination of hazards of railroad-

highway crossings, the extent to which the railroad is obligated to move or adjust its facilities at its own expense,

(v) The railroad's share of the project cost,

(vi) An itemized estimate of the cost of the work to be performed by the railroad,

(vii) Method to be used for performing the work, either by railroad forces or by contract,

(viii) Maintenance responsibility,

(ix) Form, duration, and amounts of any needed insurance,

(x) Appropriate reference to or identification of plans and specifications,

(xi) Statements defining the conditions under which the railroad will provide or require protective services during performance of the work, the type of protective services and the method of reimbursement to the railroad, and

(xii) Provisions regarding inspection of any recovered materials.

(3) On work to be performed by the railroad with its own forces and where the State highway agency and railroad agree, subject to approval by FHWA, an agreement providing for a lump sum payment in lieu of later determination of actual costs may be used for any of the following:

(i) Installation or improvement of grade crossing warning devices and/or grade crossing surfaces, regardless of cost, or

(ii) Any other eligible work where the estimated cost to the State of the proposed railroad work does not exceed \$100,000 or

(iii) Where FHWA finds that the circumstances are such that this method of developing costs would be in the best interest of the public.

(4) Where the lump sum method of payment is used, periodic reviews and analyses of the railroad's methods and cost data used to develop lump sum estimates will be made.

(5) Master agreements between a State and a railroad on an areawide or statewide basis may be used. These agreements would contain the specifications, regulations, and provisions required in conjunction with work performed on all projects. Supporting data for each project or group of projects must, when combined with the master

agreement by reference, satisfy the provisions of § 646.216(d)(2).

(6) Official orders issued by regulatory agencies will be accepted in lieu of State-railroad agreements only where, together with supplementary written understandings between the State and the railroad, they include the items required by § 646.216(d)(2).

(7) In extraordinary cases where FHWA finds that the circumstances are such that requiring such agreement or order would not be in the best interest of the public, projects may be approved for construction with the aid of Federal funds, provided satisfactory commitments have been made with respect to construction, maintenance and the railroad share of project costs.

(e) *Authorizations.* (1) The costs of preliminary engineering, right-of-way acquisition, and construction incurred after the date each phase of the work is included in an approved statewide transportation improvement program and authorized by the FHWA are eligible for Federal-aid participation. Preliminary engineering and right-of-way acquisition costs which are otherwise eligible, but incurred by a railroad prior to authorization by the FHWA, although not reimbursable, may be included as part of the railroad share of project cost where such a share is required.

(2) Prior to issuance of authorization by FHWA either to advertise the physical construction for bids or to proceed with force account construction for railroad work or for other construction affected by railroad work, the following must be accomplished:

(i) The plans, specifications and estimates must be approved by FHWA.

(ii) A proposed agreement between the State and railroad must be found satisfactory by FHWA. Before Federal funds may be used to reimburse the State for railroad costs the executed agreement must be approved by FHWA. However, cost for materials stockpiled at the project site or specifically purchased and delivered to the company for use on the project may be reimbursed on progress billings prior to the approval of the executed State-Railroad Agreement in accordance with 23 CFR 140.922(a) and § 646.218 of this part.

(iii) Adequate provisions must be made for any needed easements, right-of-way, temporary crossings for construction purposes or other property interests.

(iv) The pertinent portions of the State-railroad agreement applicable to any protective services required during performance of the work must be included in the project specifications and special provisions for any construction contract.

(3) In unusual cases, pending compliance with § 646.216(e)(2)(ii), (iii) and (iv), authorization may be given by FHWA to advertise for bids for highway construction under conditions where a railroad grants a right-of-entry to its property as necessary to prosecute the physical construction.

(f) *Construction.* (1) Construction may be accomplished by:

(i) Railroad force account,

(ii) Contracting with the lowest qualified bidder based on appropriate solicitation,

(iii) Existing continuing contracts at reasonable costs, or

(iv) Contract without competitive bidding, for minor work, at reasonable costs.

(2) Reimbursement will not be made for any increased costs due to changes in plans:

(i) For the convenience of the contractor, or

(ii) Not approved by the State and FHWA.

(3) The State and FHWA shall be afforded a reasonable opportunity to inspect materials recovered by the railroad prior to disposal by sale or scrap. This requirement will be satisfied by the railroad giving written notice, or oral notice with prompt written confirmation, to the State of the time and place where the materials will be available for inspection. The giving of notice is the responsibility of the railroad, and it may be held accountable for full value of materials disposed of without notice.

(4) In addition to normal construction costs, the following construction costs are eligible for participation with Federal-aid funds when approved by the State and FHWA:

(i) The cost of maintaining temporary facilities of a railroad company

required by and during the highway construction to the extent that such costs exceed the documented normal cost of maintaining the permanent facilities.

(ii) The cost of stage or extended construction involving grade corrections and/or slope stabilization for permanent tracks of a railroad which are required to be relocated on new grade by the highway construction. Stage or extended construction will be approved by FHWA only when documentation submitted by the State establishes the proposed method of construction to be the only practical method and that the cost of the extended construction within the period specified is estimated to be less than the cost of any practicable alternate procedure.

(iii) The cost of restoring the company's service by adjustments of existing facilities away from the project site, in lieu of and not to exceed the cost of replacing, adjusting or relocating facilities at the project site.

(iv) The cost of an addition or improvement to an existing railroad facility which is required by the highway construction.

[40 FR 16059, Apr. 9, 1975, as amended at 40 FR 29712, July 15, 1975; 47 FR 33956, Aug. 5, 1982; 62 FR 45328, Aug. 27, 1997]

§ 646.218 Simplified procedure for accelerating grade crossing improvements.

(a) The procedure set forth in this section is encouraged for use in simplifying and accelerating the processing of single or multiple grade crossing improvements.

(b) Eligible preliminary engineering costs may include those incurred in selecting crossings to be improved, determining the type of improvement for each crossing, estimating the cost and preparing the required agreement.

(c) The written agreement between a State and a railroad shall contain as a minimum:

- (1) Identification of each crossing location.
- (2) Description of improvement and estimate of cost for each crossing location.
- (3) Estimated schedule for completion of work at each location.

(d) Following programming, authorization and approval of the agreement under § 646.218(c), FHWA may authorize construction, including acquisition of warning device materials, with the condition that work at any particular location will not be undertaken until the proposed or executed State-railroad agreement under § 646.216(d)(2) is found satisfactory by FHWA and the final plans, specifications, and estimates are approved and with the condition that only material actually incorporated into the project will be eligible for Federal participation.

(e) Work programmed and authorized under this simplified procedure should include only that which can reasonably be expected to reach the construction stage within one year and be completed within two years after the initial authorization date.

§ 646.220 Alternate Federal-State procedure.

(a) On other than Interstate projects, an alternate procedure may be used, at the election of the State, for processing certain types of railroad-highway work. Under this procedure, the State highway agency will act in the relative position of FHWA for reviewing and approving projects.

(b) The scope of the State's approval authority under the alternate procedure includes all actions necessary to advance and complete the following types of railroad-highway work:

(1) All types of grade crossing improvements under § 646.206(a)(3).

(2) Minor adjustments to railroad facilities under § 646.206(b).

(c) The following types of work are to be reviewed and approved in the normal manner, as prescribed elsewhere in this subpart.

(1) All projects under § 646.206(a)(1) and (2).

(2) Major adjustments to railroad facilities under § 646.206(b).

(d) Any State wishing to adopt the alternate procedure may file a formal application for approval by FHWA. The application must include the following:

(1) The State's written policies and procedures for administering and processing Federal-aid railroad-highway work, which make adequate provisions with respect to all of the following:

(i) Compliance with the provisions of title 23 U.S.C., title 23 CFR, and other applicable Federal laws and Executive Orders.

(ii) Compliance with this subpart and 23 CFR part 140, subpart I and 23 CFR part 172.

(iii) For grade crossing safety improvements, compliance with the requirements of 23 CFR part 924.

(2) A statement signed by the Chief Administrative Officer of the State highway agency certifying that:

(i) The work will be done in accordance with the applicable provisions of the State's policies and procedures submitted under § 646.220(d)(1), and

(ii) Reimbursement will be requested in only those costs properly attributable to the highway construction and eligible for Federal fund participation.

(e) When FHWA has approved the alternate procedure, it may authorize the State to proceed in accordance with the State's certification, subject to the following conditions:

(1) The work has been programmed.

(2) The State submits in writing a request for such authorization which shall include a list of the improvements or adjustments to be processed under the alternate procedure, along with the best available estimate of cost.

(f) The FHWA Regional Administrator may suspend approval of the certified procedure, where FHWA reviews disclose noncompliance with the certification. Federal-aid funds will not be eligible to participate in costs that do not qualify under § 646.220(d)(1).

[40 FR 16059, Apr. 9, 1975; 40 FR 29712, July 15, 1975; 40 FR 31211, July 25, 1975; 42 FR 30835, June 17, 1977, as amended at 45 FR 20795, Mar. 31, 1980]

APPENDIX TO SUBPART B OF PART 646—
HORIZONTAL AND VERTICAL CLEARANCE PROVISIONS FOR OVERPASS AND UNDERPASS STRUCTURES

The following implements provisions of 23 CFR 646.212(a)(3).

a. *Lateral Geometrics*

A cross section with a horizontal distance of 6.1 meters, measured at right angles from the centerline of track at the top of rails, to the face of the embankment slope, may be approved. The 6.1-meters distance may be increased at individual structure locations as appropriate to provide for drainage if justi-

fied by a hydraulic analysis or to allow adequate room to accommodate special conditions, such as where heavy and drifting snow is a problem. The railroad must demonstrate that this is its normal practice to address these special conditions in the manner proposed. Additionally, this distance may also be increased up to 2.5 meters as may be necessary for off-track maintenance equipment, provided adequate horizontal clearance is not available in adjacent spans and where justified by the presence of an existing maintenance road or by evidence of future need for such equipment. All piers should be placed at least 2.8 meters horizontally from the centerline of the track and preferably beyond the drainage ditch. For multiple track facilities, all dimensions apply to the centerline of the outside track.

Any increase above the 6.1-meters horizontal clearance distance must be required by specific site conditions and be justified by the railroad to the satisfaction of the State highway agency (SHA) and the FHWA.

b. *Vertical Clearance*

A vertical clearance of 7.1 meters above the top of rails, which includes an allowance for future ballasting of the railroad tracks, may be approved. Vertical clearance greater than 7.1 meters may be approved when the State regulatory agency having jurisdiction over such matters requires a vertical clearance in excess of 7.1 meters or on a site by site basis where justified by the railroad to the satisfaction of the SHA and the FHWA. A railroad's justification for increased vertical clearance should be based on an analysis of engineering, operational and/or economic conditions at a specific structure location.

Federal-aid highway funds are also eligible to participate in the cost of providing vertical clearance greater than 7.1 meters where a railroad establishes to the satisfaction of a SHA and the FHWA that it has a definite formal plan for electrification of its rail system where the proposed grade separation project is located. The plan must cover a logical independent segment of the rail system and be approved by the railroad's corporate headquarters. For 25 kv line, a vertical clearance of 7.4 meters may be approved. For 50 kv line, a vertical clearance of 8.0 meters may be approved.

A railroad's justification to support its plan for electrification shall include maps and plans or drawings showing those lines to be electrified; actions taken by its corporate headquarters committing it to electrification including a proposed schedule; and actions initiated or completed to date implementing its electrification plan such as a showing of the amounts of funds and identification of structures, if any, where the railroad has expended its own funds to provide added clearance for the proposed electrification. If available, the railroad's justification

should include information on its contemplated treatment of existing grade separations along the section of its rail system proposed for electrification.

The cost of reconstructing or modifying any existing railroad-highway grade separation structures solely to accommodate electrification will not be eligible for Federal-aid highway fund participation.

c. Railroad Structure Width

Two and eight tenths meters of structure width outside of the centerline of the outside tracks may be approved for a structure carrying railroad tracks. Greater structure width may be approved when in accordance with standards established and used by the affected railroad in its normal practice.

In order to maintain continuity of off-track equipment roadways at structures carrying tracks over limited access highways, consideration should be given at the preliminary design stage to the feasibility of using public road crossings for this purpose. Where not feasible, an additional structure width of 2.5 meters may be approved if designed for off-track equipment only.

[53 FR 32218, Aug. 24, 1988, as amended at 62 FR 45328, Aug. 27, 1997]

PART 650—BRIDGES, STRUCTURES, AND HYDRAULICS

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AUTHORITY: 23 U.S.C. 109 (a) and (h), 144, 151, 315, and 319; 23 CFR 1.32; 49 CFR 1.48(b), E.O. 11988 (3 CFR, 1977 Comp., p. 117); Department of Transportation Order 5650.2 dated April 23, 1979 (44 FR 24678); §161 of Public Law 97-424, 96 Stat. 2097, 3135; §4(b) of Public Law 97-134, 95 Stat. 1699; 33 U.S.C. 401, 491 *et seq.*, 511 *et seq.*; and §1057 of Public Law 102-240, 105 Stat. 2002.

Subpart A—Location and Hydraulic Design of Encroachments on Flood Plains

SOURCE: 44 FR 67580, Nov. 26, 1979, unless otherwise noted.

§650.101 Purpose.

To prescribe Federal Highway Administration (FHWA) policies and procedures for the location and hydraulic design of highway encroachments on flood plains, including direct Federal highway projects administered by the FHWA.

§650.103 Policy.

It is the policy of the FHWA: