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# COLORADO DEPARTMENT OF HIGHWAYS SPECIAL PROVISIONS

COLORADO PROJECT NO. F 005-3(9) UNIT 1

IDAHO SPRINGS - EAST & WEST

The following special provisions take precedence over all conflicting details in Specifications or on plans, and supplement the Standard Specifications adopted by the Department on June 1, 1952, together with Standard Special Provisions "Application (October 12, 1954)," "Employment Lists; Labor Selection; Nondiscrimination (October 12, 1954)," "Classification of Employees (October 12, 1954)," "Payment of Predetermined Minimum Wages (October 12, 1954)," "Affidavits and Payrolls (October 12, 1954)," "Record of Materials and Supplies (October 12, 1954)," "Subletting or Assigning the Contract (October 12, 1954)," "Adjustments for Changes in Common Carrier Rates (July 22, 1948)," "Statement of Materials and Employment, PR 47 (October 12, 1954)," "Instructions for Preparing Revised Form PR 47 (October 12, 1954)," "General (March 28, 1947)," "Compensation Insurance (March 28, 1947)," "3% Transportation Tax Exemption (June 17, 1952)," and "Emergency Cancellation of Contract (June 17, 1952)."

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#### MINIMUM WAGES

(Third District)

The minimum wage paid to all Skilled Labor employed on this contract shall be One Dollar and Ten Cents (\$1.10) per hour.

The minimum wage paid to all Intermediate Labor employed on this contract shall be Seventy Cents (\$0.70) per hour.

The minimum wage paid to all Unskilled Labor employed on this contract shall be Fifty Cents (\$0.50) per hour.

#### RENTAL OF TEAMS AND TRUCKS

The minimum rental for hired teams employed on this contract shall be twenty (20) cents per hour per head. The minimum rental shall include harness and double-trees, but shall be exclusive of all other equipment furnished for the work.

The minimum rental for hired trucks of not more than one and one-half  $(1\frac{1}{2})$  tons rated capacity, trucks to be in good condition and equipped with dump bodies, shall be seventy-five (75) cents per hour. The proposed minimum rental rate for hired trucks of more than one and one-half  $(1\frac{1}{2})$  tons rated capacity must be submitted by the Contractor to the Department for consideration at the time contract is awarded.

Suitable local teams shall be used insofar as available.

#### COMMENCEMENT AND COMPLETION OF WORK

#### AND LIQUIDATED DAMAGES FOR

#### COLORADO PROJECT NO. F 005-3(9) UNIT 1

The Contractor on this project shall commence work under his contract on or before the tenth (10th) day following the date of the contract unless such time for beginning the work shall be changed by the Chief Engineer, and shall fully complete all work thereunder within One Hundred Eighty (180) calendar days from and including the date of contract, or from and including such later date as may be designated in writing by the Engineer.

The amount of liquidated damages to be paid as provided in Paragraph 8.7, "Failure to Complete Work on Time" of the Specifications shall be \$50.00 per day.

# REMOVAL OF BRIDGES

This item shall conform to the requiments of Item 11 of the Standard Specifications except for the following modifications:

Steel trusses shall be dismantled at original field connections where possible. In no case shall the removed sections consist of more than two (2) panels of any one truss.

All costs incidental to the foregoing requirements shall be included in the original contract prices for the project.

#### ITEM 11f

#### RELOCATE GRANDSTANDS

#### COLORADO PROJECT NO. F 005-3(9) UNIT 1

#### DESCRIPTION AND REQUIREMENTS:

The grandstands noted on the plans, Sta. 116+, to be relocated shall be carefully removed and restored for service at new location as shown on plans and as staked by the Engineer. This work shall be done carefully and all damage, due to removing operations, shall be repaired by the Contractor at his expense.

Unserviceable material shall be replaced with new material of similar dimensions and quality as in the present structure.

#### BASIS OF PAYMENT:

This item completed in accordance with the foregoing, will be paid for at the contract lump sum price for "Relocate Grandstands," complete in place, which price and payment shall be full compensation for all repairs, new materials, hauling, labor, tools, equipment, supplies, and work incidental thereto.

#### ITEM 14

#### EXCAVATION FOR STRUCTURES

#### 14.1 DESCRIPTION:

- 14.1.1 Excavation for structures shall consist of the excavation and removal of all material of whatever nature encountered, necessary for the construction of foundations and substructures of the structures listed on the Plans. It shall include the construction complete in place of all temporary cribs, cofferdams, caissons, etc., which may be necessary for the execution of the work. It shall also include the subsequent removal of the cofferdams and cribs and the disposal of the surplus excavation materials in the roadway embankments or as directed by the Engineer.
- 14.1.2 The removal of old structures is not included herein, but is covered by Item 11 of these Specifications.
- 14.1.3 The elevation of the bottom of footings as shown on the Plans shall be considered as approximate only and the Engineer may order in writing such changes in dimensions or elevations of footings as may be necessary to secure a satisfactory foundation.

### 14.2 CLASSIFICATION:

- 14.2.1 Excavation for structures shall be classified as "Rock Excavation (Str.)," "Common Excavation (Str.)" and "Unclassified Structural Excavation." The distinction between "Rock" and "Common" shall be as prescribed in classification for "Roadway and Drainage Excavation," Paragraph 13.2 All excavation classified as "Unclassified Structural Excavation," on the Plans, will remain under that classification in all cases.
- $1^4.2.2$  Excavation for culverts shall be as required under Item 45 of these Specifications. Where portions of culverts are not bedded in the original ground, excavation for structures shall be measured and paid for in embankment material. Embankments shall be built up and thoroughly compacted to a point one-half (1/2) the diameter above the proposed flow line of the pipe and the trench for the pipe shall then be excavated through the constructed embankment. The embankment shall be constructed in accordance with Item 15 of the Specifications.

### 14.3 CONSTRUCTION METHODS:

- 14.3.1 Foundations shall be excavated according to the outline of the footings as shown on the Plans or as established by the Engineer and shall be of sufficient size to permit the placing of the footings with full horizontal bed.
- 14.3.2 Excavation in rock or other hard foundation material shall be cut to a firm surface, either level, stepped, or serrated, cleaned of all loose material, and all seams shall be cleaned out and filled with concrete, mortar or grout, as directed by the Engineer.

#### -2-<u>ITEM 14</u> EXCAVATION FOR STRUCTURES

- 14.3.3 When a structure is to rest on an excavated surface other than rock, special care shall be taken not to disturb the bottom of the excavation and the final removal of the foundation material to grade shall be made just before the structure or concrete is to be placed. The final six (6) inches in depth shall be done by hand labor methods. The natural ground adjacent to the footings shall not be disturbed without the permission of the Engineer.
- 14.3.4 Cofferdams or cribs for foundation construction shall, in general, be carried well below the bottom of the footings and shall be well braced and as watertight as practicable. The interior dimensions of cofferdams shall be such as to give sufficient clearance for the construction of forms, thorough inspection, and to permit pumping outside of the forms. Cofferdams or cribs which become tilted or moved out of line during the process of sinking, shall be righted or enlarged so as to provide the necessary clearance.
- 14.3.5 When conditions are encountered, which, in the opinion of the Engineer, render it impracticable to unwater the foundation before placing concrete, he may require a concrete foundation seal of such dimensions as may be necessary to be constructed below the designed footing depth and poured under still water by tremie or other approved method. Such concrete shall be proportioned as specified under Item 46 for Class "A" Concrete with the addition of ten (10) per cent of cement above that normally used. When ordered by the Engineer, after the concrete has set sufficiently, the cofferdam shall be pumped out for purposes of inspection. When weighted cribs are employed and the weight is utilized to partially overcome the hydrostatic pressure acting against the bottom of the foundation seal, special anchorage, such as dowels or keys, shall be provided to transfer the entire weight of the crib into the foundation seal. When a foundation seal is placed under water, the cofferdam shall be vented or ported at low water level.
- 14.3.6 Cofferdams shall be constructed so as to protect green concrete against damage from a sudden rising of the stream and to prevent damage to the foundation by erosion. No timber or bracing shall be left in the cofferdams or cribs in such a way as to extend into the substructure without written permission from the Engineer.
- 14.3.7 Unless otherwise provided, cofferdams and cribs, with all sheeting and bracing, shall be removed by the Contractor after the completion of the substructure, in such a manner as not to disturb or mar the finished structure.
- 14.3.8 Fumping from the interior of any foundation enclosure shall be done in such manner as to preclude the possibility of any portion of the concrete materials being carried away. No pumping will be permitted during the placing of concrete, or for a period of at least twenty-four (24) hours thereafter, unless it be done from a suitable sump separated from the concrete work by a water tight wall.
- 14.3.9 After each excavation is completed, the Contractor shall notify the Engineer, and no concrete or other materials shall be placed until after the Engineer has approved the depth of the excavation and the character of the foundation material.

#### -3-ITEM 14 EXCAVATION FOR STRUCTURES

- 14.3.10 When unsatisfactory foundation material is encountered in the excavation for culvert pipes, siphons, concrete box or slab culverts, the foundation material shall be excavated a minimum of six (6) inches below grade and backfilled with "Structure Backfill" material, as described under Item 16 and as designated on Plans or as directed by the Engineer.
- 14.3.11 Where the Contractor, for his own convenience, excavates beyond the limits required for structural excavation, the excess excavation and the backfill thereof shall be at the Contractor's expense.
- 14.3.12 Backfilling around culverts, siphons, abutments, wing walls, piers and areas inaccessible to rollers shall be compacted by mechanical tamping devices or other approved means as provided under Item 16 of the Specifications. Fill around structures shall be deposited on both sides to approximately the same elevation at the same time and compacted to a density satisfactory to the Engineer.
- 14.3.13 Special precautions shall be taken to prevent any wedging action against a structure and the slope bounding the excavation for bridge abutments and wing walls shall be destroyed by stepping or serrating to prevent wedge action.
- 14.3.14 "Structure Backfill" material and placement thereof, together with any required mechanical tamping shall be as described under Item 16.

#### 14.4 METHOD OF MEASUREMENT:

14.4.1 The total yardage of structural excavation to be paid for under this item shall be the volume in cubic yards as calculated in accordance with the following:

# 1. Circular and box culverts, siphons, side drains and other pipes.

A profile will be made along center line of the structure to extend one (1) foot beyond either end of structure. End of structure, as used, is defined to include wing walls, metal aprons, concrete end sections and headwalls. The area between original ground and the bottom of trench as excavated between limits of this profile will then be determined. The volume of structural excavation will then be calculated by multiplying this area by the dimension of the outside diameter of circular structures or the outside width of box structures, measured in feet, plus two (2) feet.

Division boxes, diversion boxes, and other miscellaneous structures shall be handled in the manner proposed for box culverts by establishing the center line through the long axis of the structure and running the profile to a point one (1) foot outside the neat line of the structure. The balance of the computation would then be handled as prescribed for a box culvert.

#### - 4-ITEM 14 EXCAVATION FOR STRUCTURES

#### 2. Bridges.

The quantity of structural excavation for bridges will not be measured, but will be the quantities shown on Plans. Exception will be when changes are ordered in accordance with Paragraph 14.1.3. When changes are ordered by the Engineer, volume will be measured and added to or subtracted from plan quantities.

- 14.4.2 The depth of excavation for structures, where roadway cross-section is in fill, shall be between the bottom of the footings as excavated and the original ground surfaced as profiled by the Engineer. The depth of excavation for structures where the roadway cross-section is in cut, or where channel changes or channel improvements are indicated, shall be between the bottom of the footings as excavated, and the typical cross-section of the cut, channel change or channel improvement, as though the excavation for the cut, channel change or channel improvement had been completed. The volume of yardage included within the roadway cross-section and cross-sections of channel changes or channel improvements shall be measured and paid for as provided under Item 13, "Roadway and Drainage Excavation."
- 14.4.3 Trenches for underdrains of all types, and trenches required for installation of multiple plate culverts shall be measured to neat lines indicated by details on Plans or required by Specifications for the respective items.
- 14.4.4 In case portions of old bridge substructures coincide with structural excavation prisms as outlined herein, the substructure material removed within this prism to a point three (3) feet below the ground line or stream bed at that point shall be paid for as provided under Item 11, "Removal of Bridges, Structures and Obstructions" of the Specifications. Substructure material occurring within the said structural excavation prisms below this three (3) foot depth, shall be paid for as structural excavation. The yardage of structural excavation so calculated, completed and accepted, will be included in the measurement and no other allowance for measurement of removed structures nor of cofferdams or caissons shall be included.
- 14.4.5 In the event that it is found necessary to carry any of the footings more than three (3) feet below the depths shown on the Plans, the excavation down to an elevation three (3) feet below that shown on the original Plans shall be performed at the original prices bid, as provided above; material excavated more than three (3) feet below the original elevation shown on the Plans, shall be paid for under supplemental agreement as Extra Work as provided in Paragraph 4.5.

#### -5-ITEM 14 EXCAVATION FOR STRUCTURES

#### 14.5 BASIS OF PAYMENT:

The yardage of excavation for structures determined and classified as provided above shall be paid for at the contract unit prices per cubic yard for "Rock Excavation (Str.)," "Common Excavation (Str.)" or "Unclassified Structural Excavation," as the case may be, which prices and payments shall be full compensation for the excavation, removal and disposal of all materials and obstructions encountered, for the construction of cribs, cofferdams, and caissons, for pumping, for all grout and mortar used in filling seams in foundations, and for the removal of cofferdams and temporary cribs, except bridge substructures above three (3) foot depth which will be paid for under Item 11 of the Specifications, and for all labor, equipment, tools and incidentals necessary to complete the item. Concrete used in concrete seals as ordered in writing by the Engineer shall be paid for as specified under Item 46. Structure Backfill together with incidental mechanical temping will be paid for in accordance with Item 16 of the Specifications.

#### SOURCE OF MATERIALS

#### COLORADO PROJECT NO. F 005-3(9) UNIT 1

The Department estimates that Structure Backfill for this project is available from the channel changes located within the Right of Way.

The material is available at no cost to the Contractor.

The amount of materials required is subject to change by the Engineer to meet requirements encountered during construction.

If other agreements are reached for material, the Contractor shall make his own arrangements with the property owners for the use of such material and payment therefor, all such payments being made by the Contractor directly to the owner.

All sources are to be excavated and backsloped uniformly and left in a neat, leveled condition.

All material taken from roadway cuts and paid for as Structure Backfill will be excluded from payment as "Unclassified Excavation."

Written approval based on tests by the Materials Engineer must be secured from the Engineer before materials may be used from sources other than those designated on plans.

Any temporary bridges or approach roads required to haul material from channel changes to the roadway shall be constructed by the Contractor at his expense.

The cost of the foregoing requirements shall be included in the original contract unit prices for the project.

#### REVISION OF ITEM 42 TIMBER BRIDGED

This Item shall conform to the requirements of Item 42 of the Standard Specifications except for the following:

Paragraph A2.2.9 is revised to the following:

42.2.9 All timber furnished under these specifications, except when inspection is arranged for by the Engineer, shall be covered by a certificate of inspection issued by the West Coast Lumbermen's Association, Pacific Lumbermen's Inspection Bureau, Southern Pine Association, or by any other inspection agency approved by the Engineer. Each piece so inspected shall be marked with a mark indicating such inspection, and the destination of material or job for which it is intended shall be clearly shown on said certificate.

All costs incidental to the above requirements shall be included in the contract unit price bid for Item 42.

#### ITEM 46 - CONCRETE

This item shall conform to the requirements of Item 46 of Standard Specifications and shall include the following:

#### 46.2.7 Air-entrained Concrete:

- 46.2.7.2 When the Contractor plans to furnish airentraining admixtures which have been previously approved by the Department, he will be required to furnish two (2) copies of a certificate to the Engineer stating the material proposed for use on the project is identical to that previously furnished.
- 46.2.7.3 For air-entraining admixtures which have not been previously approved by the Department, the Contractor will be required to furnish two (2) copies of a certificate to the Engineer from a recognized laboratory stating that the material proposed for use on the project is in conformity with the requirements of A.A.S.H.O. Specification M-154.
- 46.2.7.4 A "recognized" laboratory is any State Highway, Bureau of Public Roads, or cement and concrete laboratory regularly inspected by the Cement Reference Laboratory of the National Bureau of Standards.

#### 46.2.10 Retarding Agent:

- 46.2.10.1 The Contractor will be permitted to use an approved retarding agent in bridge deck concrete. Purpose of retarding agent is to retain workability of concrete for a longer period of time, which may aid finishing operations.
- 46.3.10.6 The following shall be added to Paragraph 46.3.10.6:

"Unless otherwise specified on plans, ordinary surface finish shall be applied to all exposed surfaces of concrete arch and box culverts, headwalls, inlet boxes, paving drains and irrigation structures."

All costs incidental to the foregoing requirements shall be included in the original contract unit price for Item 46.

#### AFFIDAVIT RELATIVE TO COLLUSION

The Contractor on this project will be required to conform with the requirements of Section 17(b) of the 1954 Federal Highway Act regarding contracts and as described in the paragraph below.

"Section 17(b) of the Federal-Aid Highway Act of 1954 requires as a condition precedent to approval by the Commissioner of Public Roads of the contract for this work that the Contractor file a sworn statement executed by, or on behalf of, the person, firm, association, or corporation to whom such contract is to be awarded, certifying that such person, firm, association or corporation has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with such contract. This sworn statement shall be in the form of an affidavit executed and sworn to by the successful bidder before such persons as are authorized by the laws of the State to administer oaths. The original of such sworn statement shall be filed with the State Highway Department prior to the award of the contract."

Affidavit forms are available from this Department.

#### COOPERATION OF CONTRACTORS

The attention of the Contractor is invited to the fact that the Department anticipates construction activities adjacent to and within the limits of this project in addition to the work under this contract. The Contractor for this project will be required to arrange his work so that no delay to other construction work within the limits of the project will result. The Contractor will at all times be required to cooperate with other construction agencies in the moving of their equipment over or around this project.

All cost incidental to these conditions shall be included in the original contract unit prices for this project.

# EXEMPTION FROM TON-MILE TAXES

Publicly owned vehicles and Contractor's vehicles operating within the confines of construction projects are exempted from the payment of ton-mile taxes under Senate Bill 213 of the Fortieth General Assembly in its First Regular Session.

The confines of this project as exempted under Senate
Bill 213 are defined as including all sources of earthen or
mineral aggregates and water for use on this project, and the
connecting roads or areas between the project and such sources.

#### PROTECTION OF UTILITIES

The Contractor's attention is directed to the fact that utilities encroach on the construction of this project, and also to the importance of protecting all public utilities encountered on this project. These may include telephone, telegraph and power lines, water line, sewer lines, gas lines, railroad tracks, and other overhead and underground utilities.

Before any excavation is begun in the vicinity of water lines, railroad tracks or structures, sewer lines, gas lines or telephone conduits, each utility company concerned must be notified in advance of such excavation, and such excavation shall not be made until an authorized representative of the utility company concerned is on the ground.

The Contractor shall be held liable for all damages to any and all public utilities encountered on the project, which damages are due to the Contractor's operations. Such damages shall include all physical damages to utilities and also all damages due to interruption of service of such utilities, when such damages and interruptions are caused by Contractor's operations.

Where alterations or moving of utilities is not required to permit construction of new highway improvement, the Contractor shall take such measure as the Engineer may direct in properly protecting these utilities throughout his construction operations and shall cooperate at all times with the proper authorities and/or owners in maintaining service of railroads, conduits, pole lines, transmission lines, pipe lines, sewers, etc., affected by this project.

The cost of damages due to Contractor's operation or cost of protecting utilities where alteration or moving is not required to permit construction of highway improvement shall be included in the original contract prices for the project.

Should any pipe line, water lines or gas mains, electrical conduits, sewer pipes, overhead wiring, telephone lines, telegraph lines, power lines, or any other such utilities, not specifically mentioned and provided for elsewhere as a part of this contract, have to be moved, repaired, reconditioned or revised due to the road construction or moved temporarily to permit construction of project, the party or parties owning or operating such utilities shall perform the actual work of moving, repairing, reconditioning, or revising such utilities. The cost of this work shall be borne by the utility companies involved, unless other agreements are reached with the Department.

### PROVISIONS FOR TRAFFIC DURING CONSTRUCTION

The detour for this project lies along the present traveled road except where detours are designated on plans. At all places on the project where the new work lies along the present traveled road, the Contractor shall, at his own expense, prosecute construction in such manner that traffic may readily pass over the road. Also, the Contractor shall maintain in safe condition and at his own expense all temporary approaches to and crossings of intersecting roads.

Where designated on plans, traffic will be served by detour roadways in accordance with plan details. Through traffic will be required to use these detours throughout construction. The Contractor will be required to cooperate with the Department in order that the highway will not be closed to local traffic. Local traffic shall be adequately provided for at the Contractor's expense.

During and after surfacing operations, weather conditions and traffic may require wetting and rolling to conserve the fine material, preserve the evenness of the surface and abate the dust nuisance and traffic hazard. The Contractor will be required to do this wetting and rolling as ordered by the Engineer, all such work being paid for at the contract prices for the items involved.

Before proceeding with construction, the Contractor must obtain from the Engineer written approval of the proposed methods of handling traffic during Construction.

# CONSTRUCTION ACROSS MATIONAL FOREST LAND (REQUEREMENTS OF FOREST USE PERMIT)

In all places where this project traverses National Forest Land, the Contractor shall do his work in accordance with the following requirements:

- 1. Trees or shrubbery on National Forest Land may be removed or destroyed only after the forest officer in charge has approved, and had marked or otherwise designated that which may be removed or destroyed. Merchantable timber cut must be paid for by the Contractor. Trees, shrubs and other plants may be planted in such manner and in such places about the premises as may be approved by the forest officer in charge.
- 2. The Contractor shall maintain the improvements and premises to standard of repair, orderliness, neatness, sanitation and safety acceptable to the forest officer in charge.
- 3. The Contractor shall comply with the regulations of the Department of Agriculture and all Federal, State, County, and municipal laws, ordinances, or regulations which are applicable to the area.
- 4. The Contractor shall take all reasonable precautions to prevent and suppress forest fires. No material shall be disposed of by burning in open fires during the closed season established by law or regulation without a written permit from the forest officer in charge or his authorized agent.
- 5. The Contractor shall fully repair all damage, other than ordinary wear and tear, to national forest roads and trails caused by construction operations in the exercise of the privilege granted by Forest Use Permit.
- 6. The Contractor shall take all reasonable precautions to avoid damage to property and resources of the United States, and diligently to undertake suppression action in the event of fire resulting from the exercise of the privileges herein granted.
- 7. Any Forest Service improvements, such as entrance portals, fences, camp ground or picnic units, barriers, etc., if disturbed, will be replaced at no expense to the Forest Service.
- 8. The Contractor shall not discriminate against any employee or applicant for employment because of race, creed, color, or national origin, and shall include in all subcontracts a provision imposing a like obligation on subcontractors.
- 9. All use of construction equipment will be confined to the clearing or right of way, unless otherwise agreed to by the Forest Supervisor or his representative.
- 10. All material pits will have the top soil stripped off at the beginning of the work, and replaced and spread over the bared area at its conclusion.
- ll. The temporary use and occupancy of the premises and improvements herein described may not be sublet by the Contractor to third parties without the prior written approval of the forest supervisor and the Contractor shall continue to be responsible for compliance with all conditions of Forest Use Permit by persons to whom such premises may be sublet.
- 12. None of the conditions of Forest Use Permit as set forth herein can be varied or modified, except with the written consent of the Forest Supervisor.
- 13. All costs incidental to the foregoing requirements shall be included in the original contract unit prices for the project.

#### SALES TAX REFUND ON CONSTRUCTION MATERIALS

Pursuant to the law and regulations of the Department of Revenue, it is the policy of the Department of Highways to make claim for refund of all State sales and use taxes paid on materials purchased for and incorporated in highways and structures constructed under this contract.

Claim will be made for sales and use taxes paid on the following materials which are incorporated in this project:

Structural and Reinforcing Steel
Bituminous Materials
Cement
Premixed Concrete
Culvert and Underdrain Pipe
Lumber
Piling
Fencing
Commercial Aggregates
Cribbing
Guard Fence
Manholes (Rings, Covers, Etc.)
Gratings and Frames
All other materials not listed above, actually incorporated in the completed work.

The Contractor or his sub-contractors will be required to file with the Engineer upon completion of this project, if completion time allowed under this contract is 300 calendar days or less, a certificate (Form DR-513), as attached hereto, stating that he has paid State sales and use taxes on tangible property built into the road and structures under this contract. If the completion time allowed under this contract is in excess of 300 calendar days, the Contractor or his sub-contractors will be required to file appropriate DR-513 Forms with the Engineer at nine (9) month intervals during the course of the contract.

Additional copies of Form DR-513 are available from the Resident Engineer, District Offices and the Denver Headquarters Office.

# CONTRACTOR'S CERTIFICATE

STATE OF COLORADO )	
COUNTY OF) ss	
Ι,	, of lawful age, being
first duly sworn, depose and state: That I am the	of
the, c	(Title) ontractor for the construc-
tion of a Highway, Structures, Tunnel, Buildings, Etc.,	for Colorado Department
of Highways, in the County of	, State of Colorado; Pro-
ject No, located between	
and	
That sales and use tax in the amount of \$	, which said
Department of Highways seeks to have refunded, was paid	by said contractor, or
his sub-contractor, between the dates of	, 19 <u>,</u>
and, 19; that the	tangible personal property
upon which said tax was paid was built into the above-me	
•	
Affiant further states that the books, records a	and other substantiating
evidence of payment of said taxes are located and kept a	t
, in said Count	y and State; and that the
same are open to inspection by the Colorado Department c	f Revenue.
Subscribed and sworn to before me thisday of	
My commission expires	_•
	otary Public
***	

#### DISPOSAL OF OIL PROCESSED SURFACING

The present oil processed surfacing in proposed construction areas lying below the elevation of the base of proposed surfacing course shall be thoroughly plowed, broken up and mixed with an equal thickness of the underlying soil. This material shall then be consolidated in accordance with the specifications for Embankments. Where the present oil processed surfacing lies above the elevation of the base of proposed surfacing course, the oil processing shall be thoroughly plowed and broken up, and removed to embankment areas to be consolidated with other embankment materials. All oil processed surfacing shall be broken into pieces with a maximum dimension of six (6) inches.

Consolidation of oil processed surfacing shall be in conformity with requirements of Items 13, 15 and 17 of the Standard Specifications.

The cost of plowing, breaking and mixing of oil processed material with underlying soil will not be paid for as a separate item but shall be considered as subsidiary work pertaining to construction of subgrade, and shall be included in the original contract prices for the project.

Wetting and compaction required after completion of the plowing, breaking and mixing of oil processed surfacing will be paid for as provided under Item 17 of the Standard Specifications.

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55. DELETED ON UNIT NO.1 56-57. STANDARD ROADWAY CONSTRUCTION TRAFFIC SIGNS.

58. DELETED ON UNIT NO.1

3 73-74. ALIGNMENT PLAN AND PROFILE 75. SUMMARY OF EARTHWORK QUANTITIES.

91-93. CROSS SECTIONS (STRUCTURE APPROACHES).

94-103 DELETED ON UNIT NO.1

104. CROSS SECTIONS (FOOTBALL FIELD).

NET LENGTH

74 A DETAILS OF FOOTBALL FIELD. @ 1A TYPICAL SECTION OF IMPROVEMENT & LIST OF STRUCTURES.

52 A STANDARD METHODS FOR SUPERELEVATING CURVES

ON DIVIDED HIGHWAYS.

71 - 72. DELETED ON UNIT NO.1 76-90. DELETED ON UNIT NO.1

### TABULATION OF LENGTH

4	TYPE STRUCT	STRUCTURE LENGTH			NO WORK SECTION		
STATION	B. STRUCT. NO.	OUTSIDE CITY	INSID	- 1	OUTSIDE CITY		SIDE
900 Beg F005-3(9) posite 445+15 on FAP IBI-F					516.5		
+16.5 + 79,7	DOUBLE OVERPASS F - 14 - H				163.2 73.5	.1	
+53.2 Bk.= EQUATION +23.6 Ah.					137.3		
5+60.9 City Limits 5+50 City Limits 9+45 City Limits -87.5 Bk.= 39+95.3 Ah. EQ					2595.0	<b>'</b>	789.[] 42.5 835.[ <sub>]</sub>
3+30.4 Clear Creek	DOUBLE BRIDGE F-14-N		211.	7'			104.9
4+47.0 Sodo Cr <del>ee</del> k 5+70.7	DOUBLE OVERPASS					İ	123.7 892.3
4+63.0 City Limits ' 7+25.0 City Limits					1262.0	1	273.9°
9+98.9 City Limits			•	~-	4619.	•	
6+07.1 Ah.	SINGLE BRIDGE	153.0			24.9	9'	
6+32.0 Clear Creek 7+85.0	F-15-AI	153.0					
7+85.0 End F005-3(9)= ppp=1 - 341+99.9 on							,
∕ <u>81-E</u>	TOTAL	153.0	211	7	9391.5	5 5	361.5
SUMMARY					FT.		LES
STRUCTURES OUTSIDE		- [		3.0		029	
STRUCTURES INSIDE	CITY				7 7		040

# **COLORADO** DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED AS CONST. FEDERAL AID PROJECT NO. F 005-3(9) UNIT NO.1

> STATE HIGHWAY NO.2 CLEAR CREEK COUNTY

IDAHO

#### SCALES OF ORIGINAL DRAWINGS

ON PLAN. 50 FT. HORIZONTAL 10 8 5 FT. VERTICAL ON PROFILE, 1 1 IN. GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

GROSS LENGTH OF PROJECT 15,117.7 FT. = 2,863 MI
NET LENGTH OF PROJECT 364.7 FT. = 0.069 MI.

R. 73 W.

0 500 1000 1500

SCALE IN FEET

SPRINGS

All reference to Project No. should read F 005-3(9), UNIT NO.1

T.4S.

F-14-Y for construction

COMBINATION WIRE FENCE

POWER LINE .

CHANNEL CHANGE

Rev 11-19-56 T.M.C.

Rev 3-11-57 H.E.P.

R.C. Hopper, Resident Engineer

DISTRICT

COLORADO : F 005 - 3 (9)

File 167

James B. Kenney, Inc., Contractor R.72W. 1-5/1-18 tompt 2-11-55 T. 3S. STA. 147+85.0 END F 005-3(9) OPP STA. 141+99.9 ON FAP 181-E

PRESENT ROAD (Plon Sheets)

NOTICE TO BIDDERS IT IS RECOMMENDED THAT BIDDERS ON THIS PROJECT GO OVER THE PLAN DETAILS WITH ONE OF THE FOLLOWING FIELD REPRESENTATIVES OF THIS DEPARTMENT.

MR. F.O. STEARNS, CONST ENGR., DENVER, COLO. HOPPER RES. ENGR., IDAHO, SPRINGS, COLO. HOME PHONE 493

COLORADO DEPARTMENT OF HIGHWAYS

	DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	1	
		DATE

DISTRICT ENGINEER

GENERAL NOTES This project is to be constructed in conformity with the Standard Specifications of the Colorado Department of Highways,

this project, but not included in project length.

All quantities on preliminary plans are to be considered approxi

NOTE:

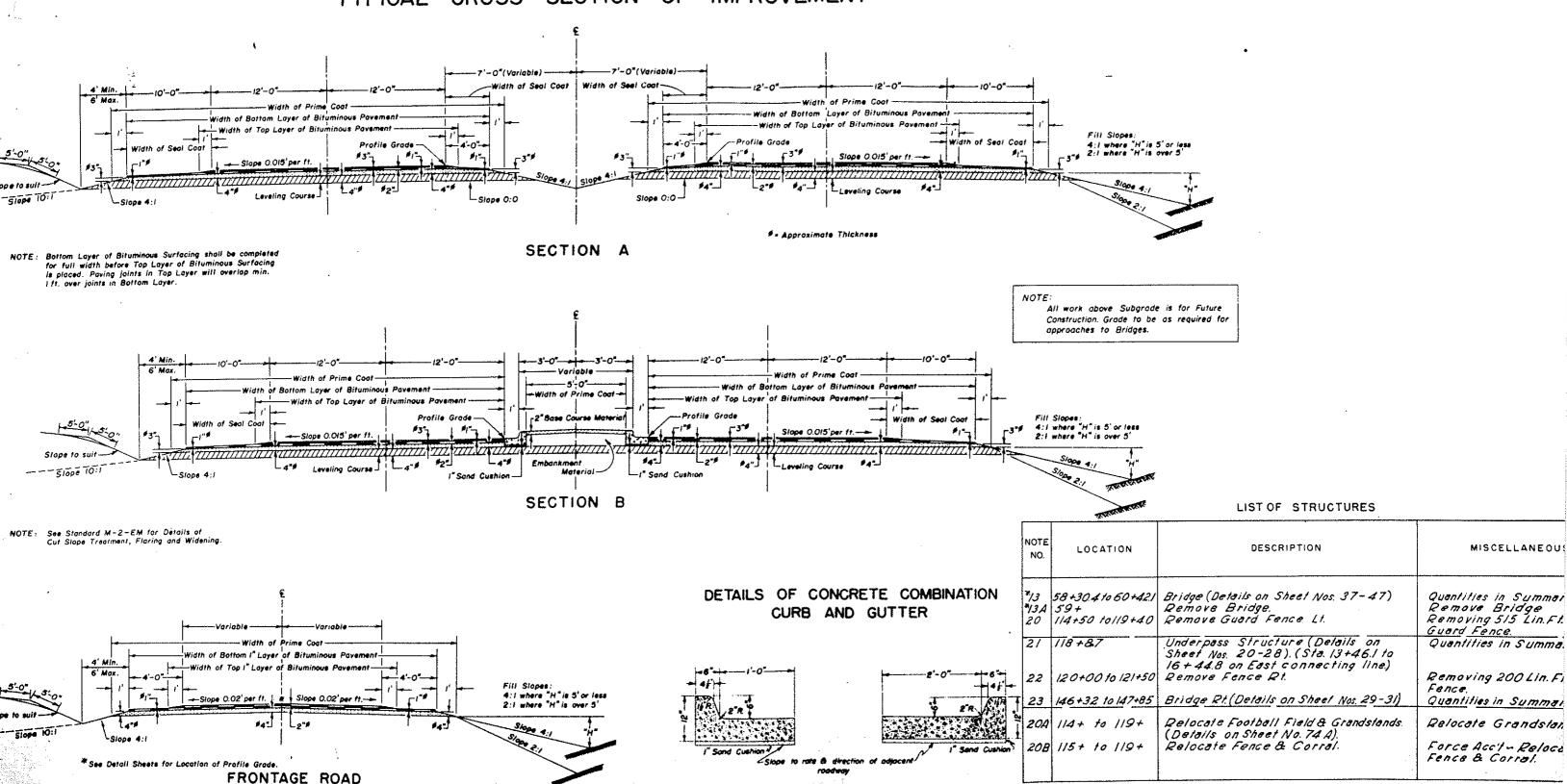
All pales encroaching an construction are to be moved by the owners

The force account item, 'Clearing of Building Sites, including Removal of Foundations and Appurtenances,' shall include of of all foundations, wells, backfilling of cellars, cess pools, wells, etc., in

excavation operations develop materials which will stand on slopes steeper than slope stake lines, the Departmen reserves the right to change cut slopes during the progress of such excavations

Excess material that may be developed during construction shall be used to fill old channel.

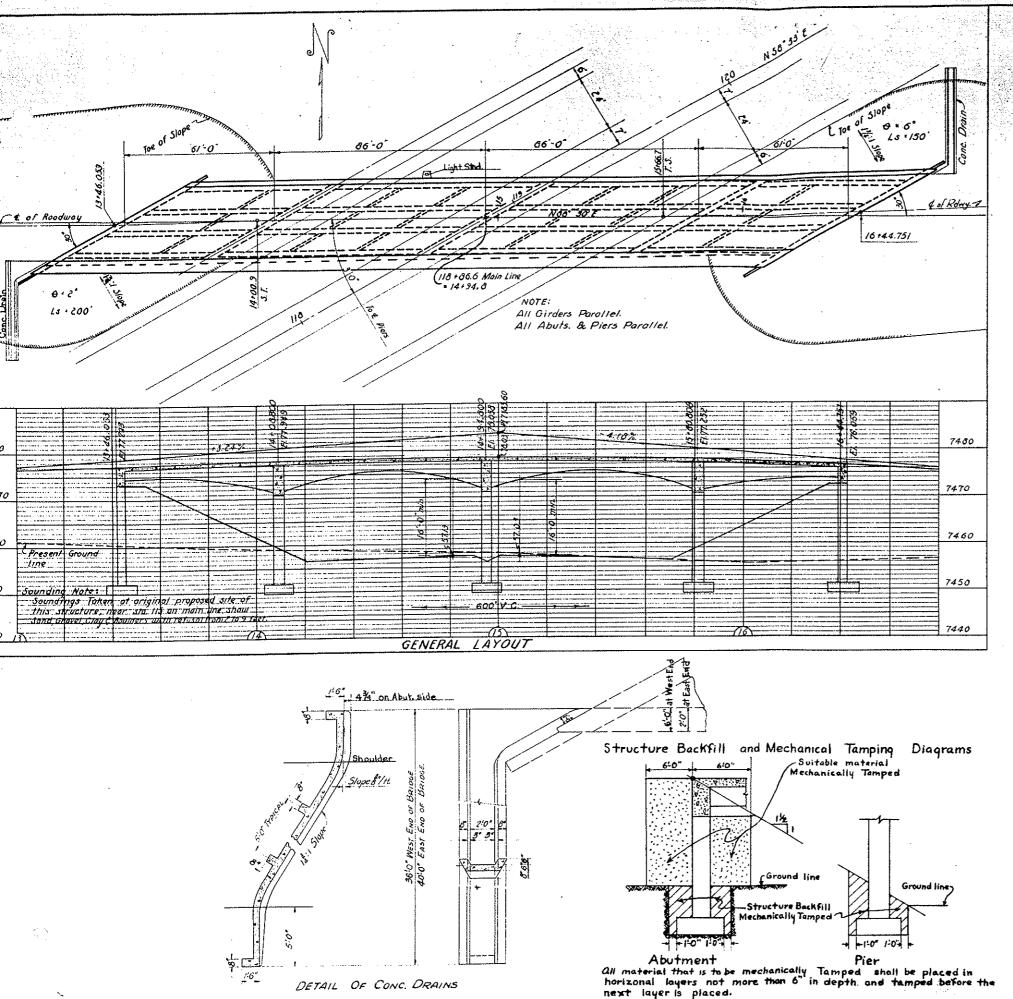
# TYPICAL CROSS SECTION OF IMPROVEMENT



\*Inside Idaho Springs

Excavation or Borrow below 4:1
and /or 10:1 will not be permitted

The depth and width of the side ditch shall be varied where necessary in order to provide proper drainage and/or entrance to drainage structures.



FED. SOAD DEV. NO.	DISTRICT	PROJECT NO.	SHEET
	coro.	F005 -5(9)	20

	Albay Inch	SUMMARY	01	− Qι	IANT	ITIE	5			护有影响
ITEM	DESCRI	PTION	UNIT	SUPERSTR.	ABUT: I	PIER 2	PIER 3	PIER4	ABUT. 5	TOTAL
	the Later Buckey	7-4-	13.00	:	33.5					1 5 5 5 5
·			<u> </u>	ļ		ļ		ļ		
149	Common Excavati	on (Str.)	Cu.Yd.	ļ	83	111	100	78	48	420
168	Structure Backfill (	Classi)	Cu.Yd.		66	85	75	56	.35	317
160	Mechanical Tamping		Hour	ļ	43	9	В	13	43	116
								·	, .	
42b	Treated Bridge Timb	Pr	Mfł.bm.		0.241				0.253	0.494
46a	Class "A" Concrete		Cu,Yd.	510 191750	32.5 7370	50.1 7850	50.1 7850	50.1 7850	33.2 743.5.	786 230106
47 48	Reinforcing Steel (In Structural Steel (1/2%		Lb.	24400	715	1030	7830	1030	715	25830
90a	If Electrical Conduit wit		Lm Ft.	605						605
			·							
		***************************************								
			Ţ							
			l							

\* Includes 7cu.yd. Class "A" Concrete for Concrete drains.

#### GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO DEPARTMENT OF HIGHWAYS APPLICABLE TO THE FROJECT ALL CONCERTE SHALL BE CLASS "A" AND AIR ENTEARING AS SPECIFIED ALL CONCERTE SHALL BE CLASS "A" AND AIR ENTEARING AS SPECIFIED ALL CONCERTE SHAPECES EXPOSED TO NORMAL VIEW BY HIGHWAY TRAFFIC INCLUDING WING BURFACES HARGES HAGE IS BURFACE FINISH. CONCERTE SHEARCES ENDESD IN THE FINISHED WORK SHALL BE CONSTRUCTED OF SHIFLAR OIL TONIGUE AND CROOVE UNDERS SHALL BE FOURTO WORK INTELL BE CONSTRUCTED OF SHIFLAR OIL TONIGUE AND CROOVE UNDERS 3 S UNLESS FACED WITH FANEL BOARD FOOTHING, IN EACH SHALL BE FOURTO WITH FANEL BOARD SOUNDINGS AND DEPTH OF FOOTHING SHOWN ARE IN ACCORDANCE WITH THE SETY AVAILABLE DATA AND WHITH DIFFERENT CONDITIONS ARE ENCOUNTERED THE SHIPEE ENGINEER WILL INSECT AND DETERMINE IF REDISION IS NECESSAR.

LIVE LOAD - A.A.S.H.O. (M. 20-516-44)
DEAD LOAD ASSUMES 15 LES. PER SQ. FT. ADDITIONAL WEARING
SUBFACE WHICH INCLUDES THE 1, INCH CONCRETE MONOLITHIC
WEARING SURFACE SHOWN.

#### DESIGNING DATA

A.A.S H.O. 1953 UNIT STRESSES, EXCEPT AS NOTED Reinforcing Steel fs 20000 lbs. per sq. in. Structural Steel fs 18000 lbs. per sq. in. fc = 1000 lbs. per sq. in.

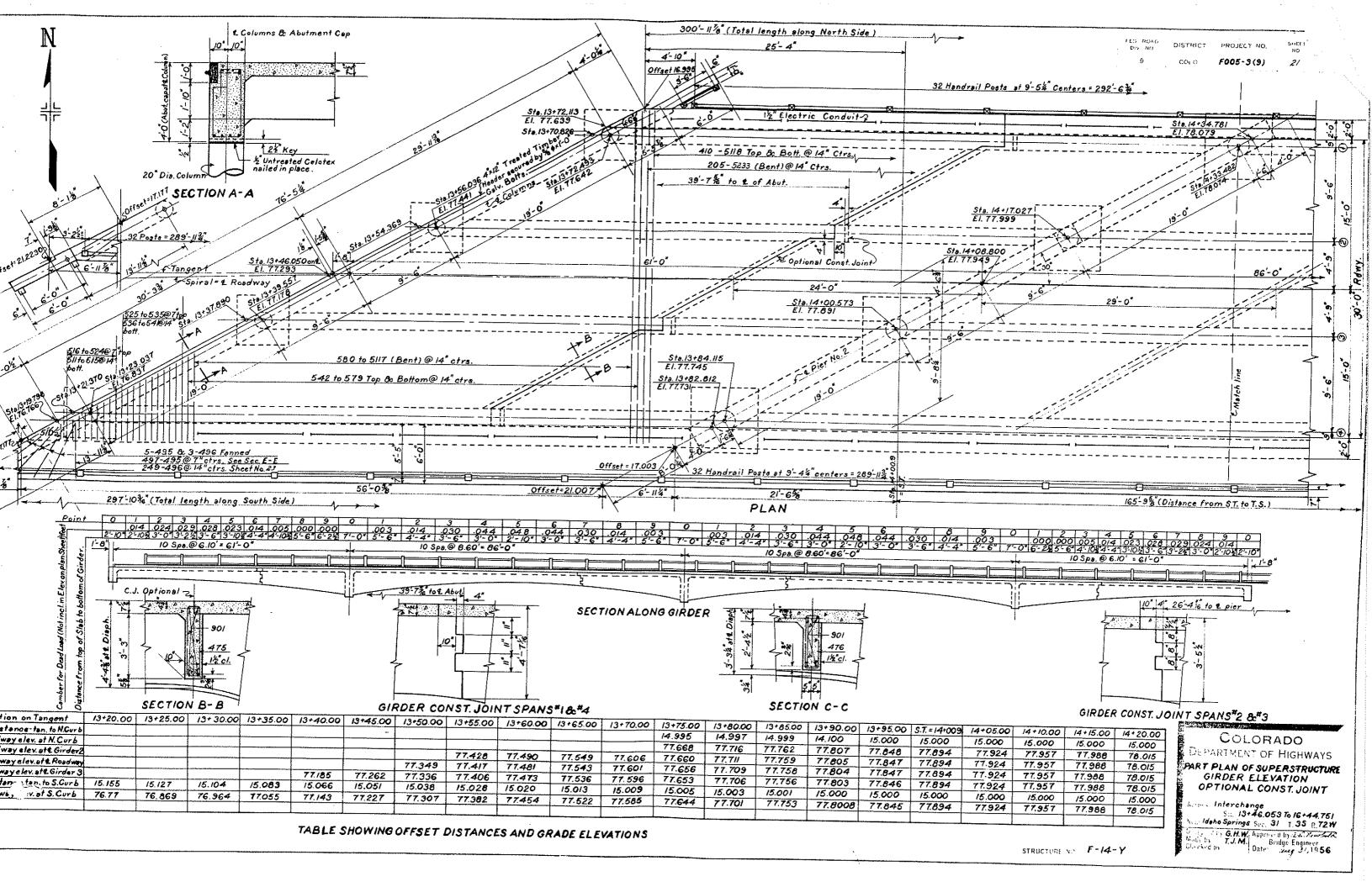
#### COLORADO

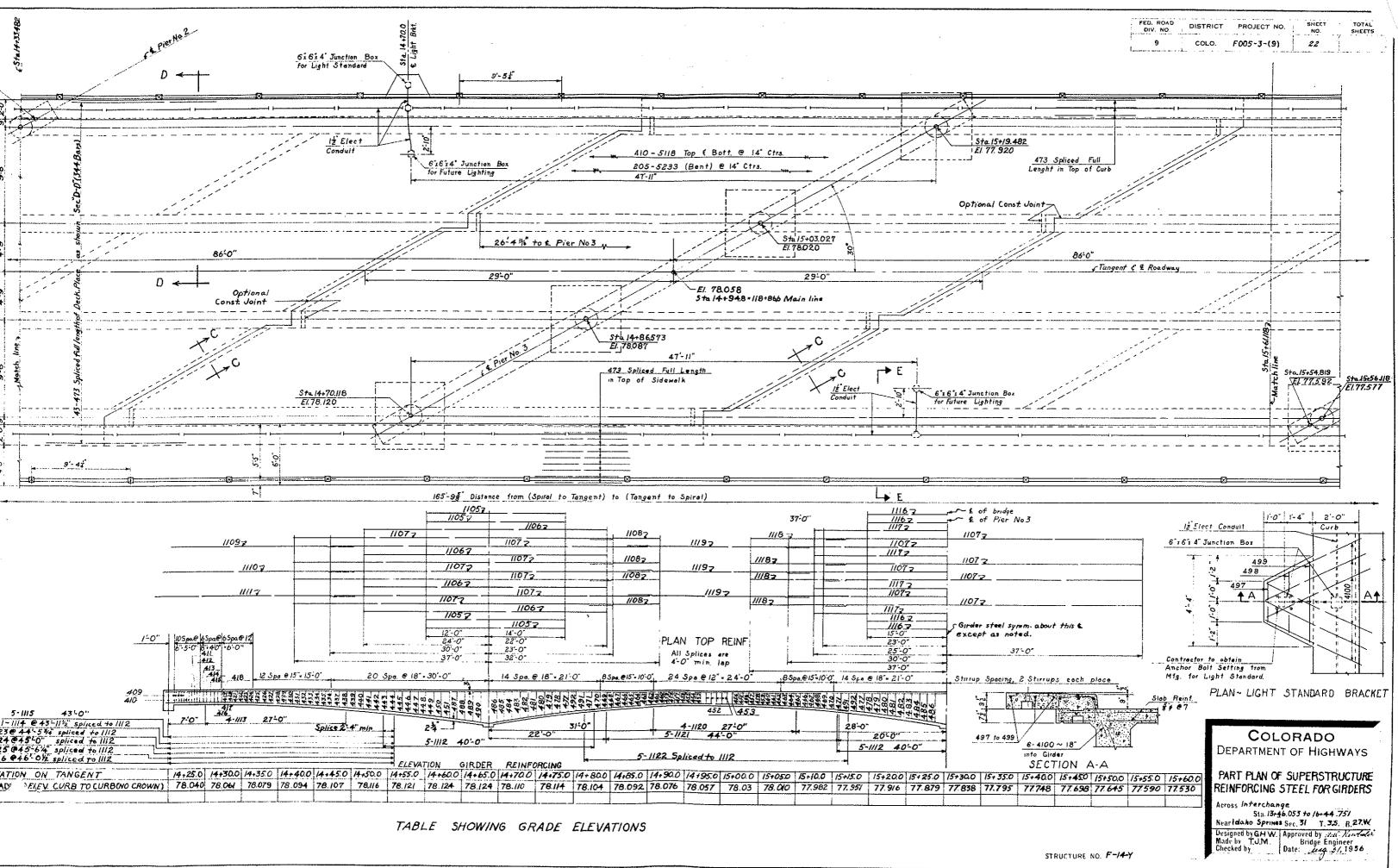
#### DEPARTMENT OF HIGHWAYS 4 SPANS 61-86-86-61' CONTINUOUS

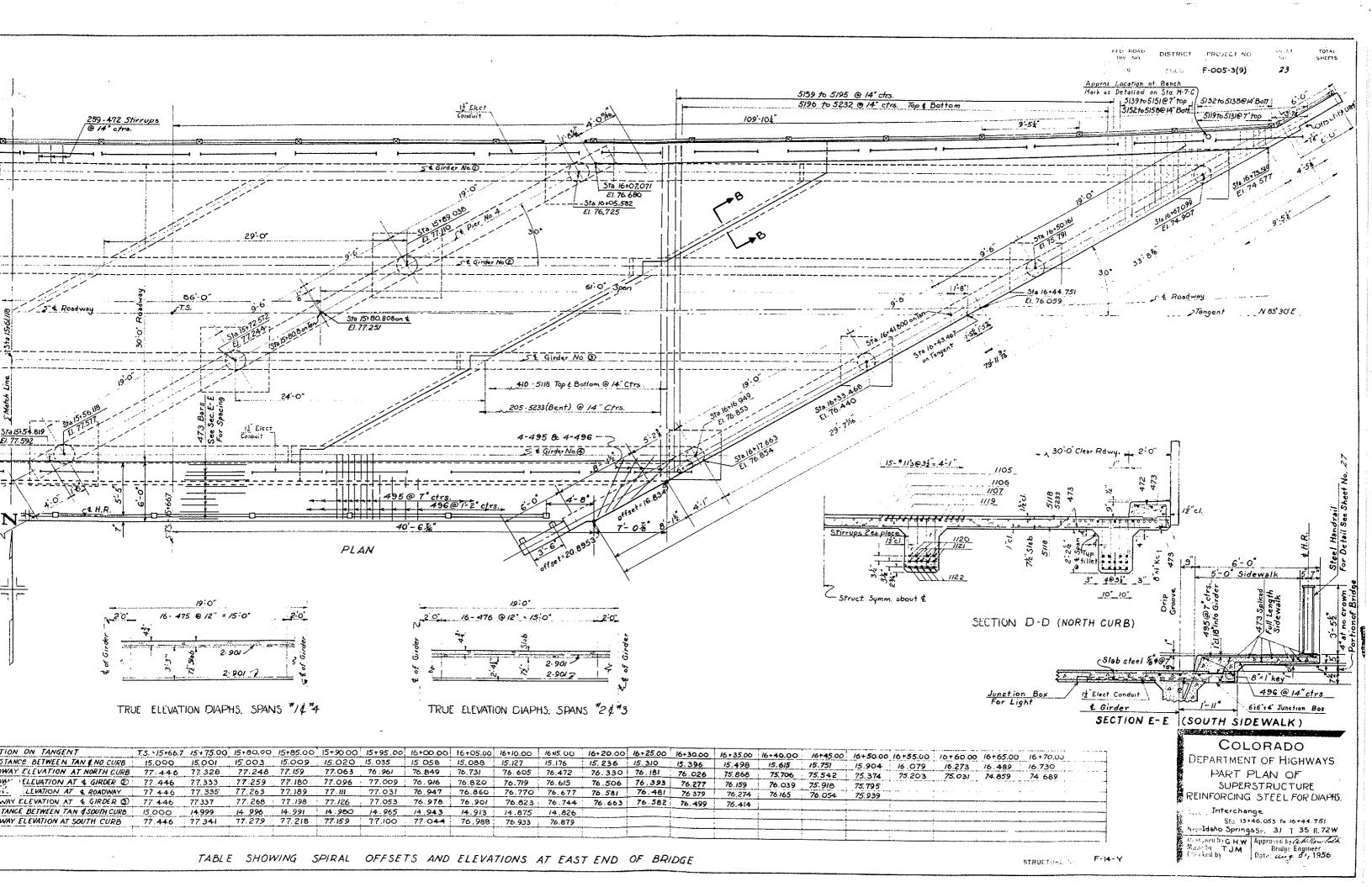
CONCRETE SLAB & GIRDER BRIDGE 30'0" ROADWAY, 60" SKEW. Rt.

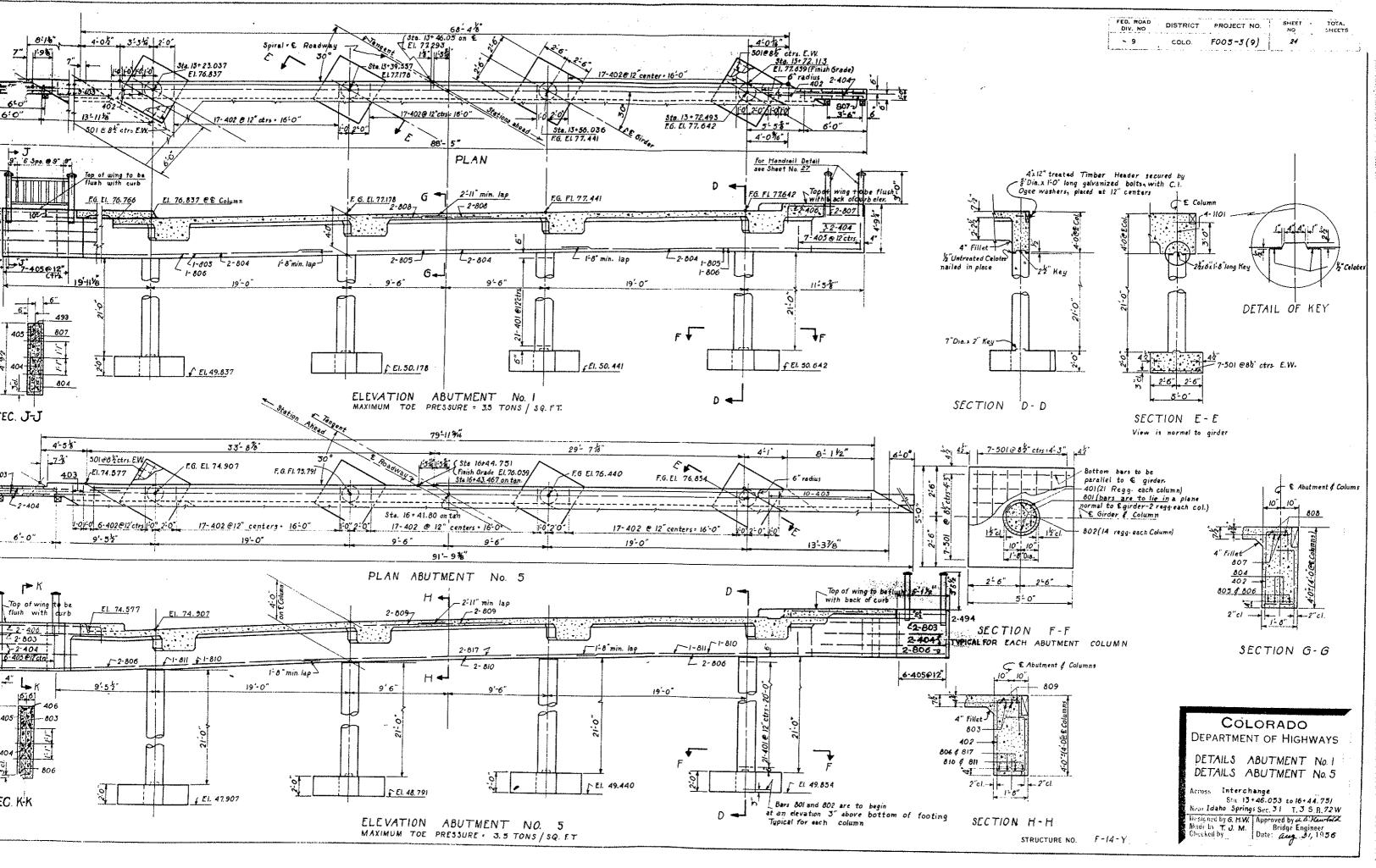
Across INTERCHANGE
Sto. 18+46,033 To 16+44,751
Near IOANO SONGS. Sec. 31. T. 35. R.Z.N.
Designed by E.R.S.
Made by
Checked by
Date: Aug. 31,1956

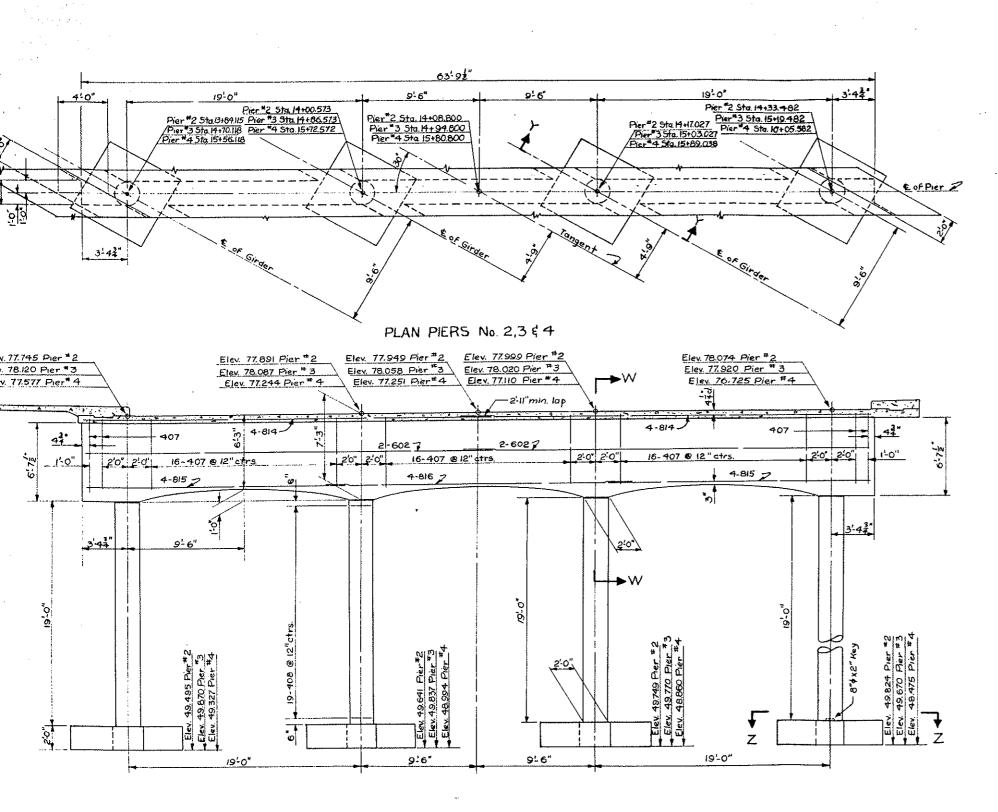
STRUCTURE NO. F-14-Y







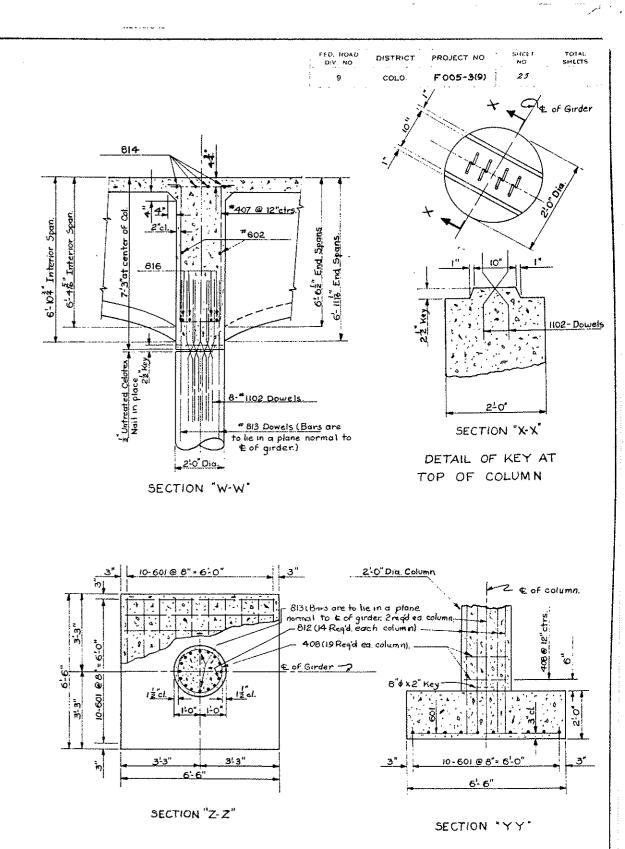




ELEVATION PIERS No. 2, 3 & 4

Max. Toe Pressure 4.4 Tons per sq. ft.

Note: All dimensions to reinforcing steel are to centerline of bar unless noted.



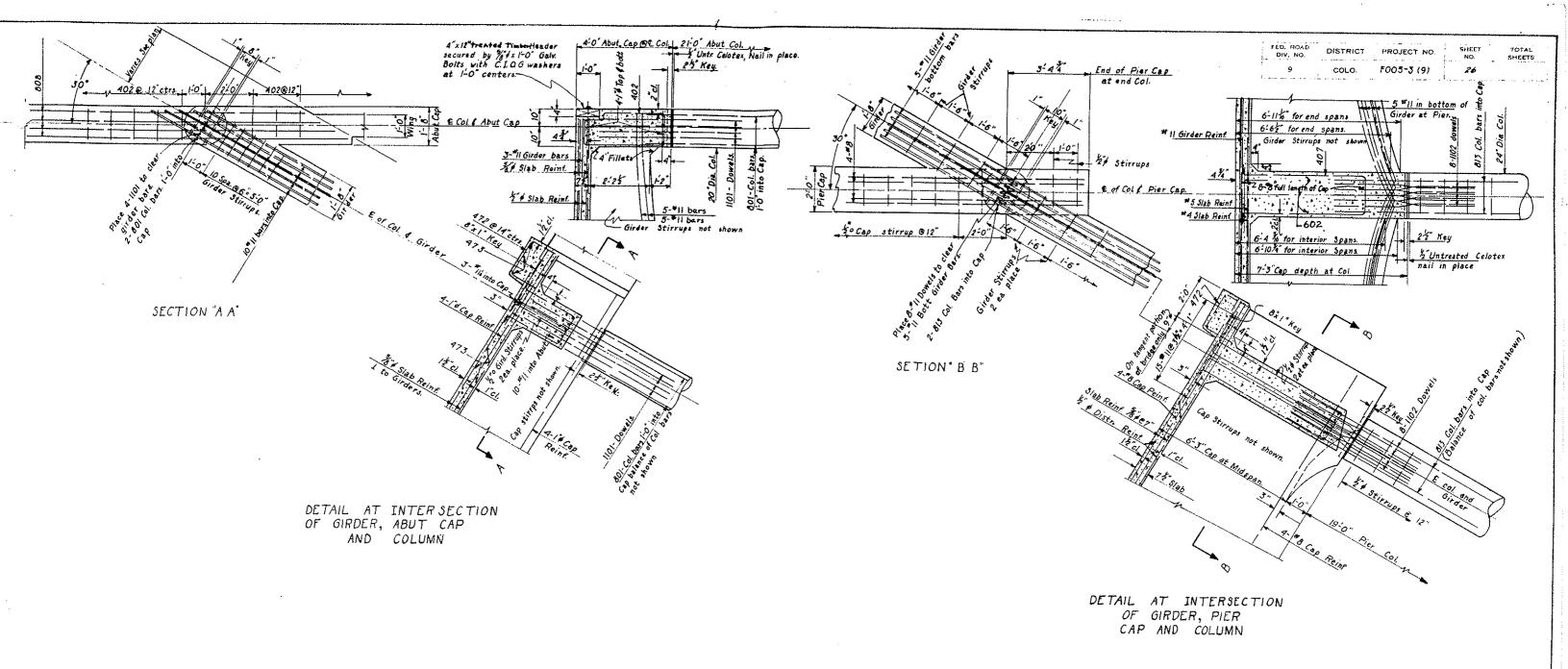
## Colorado

DEPARTMENT OF HIGHWAYS

DETAILS OF PIERS

Across Interchange
Sta. Sta. 13+46.053 to 16+44.751
Near Idaho Springs Sec. 31 1.35 8.72W
Designed by C.H.W. Approved by A. Kurtuk
Matte by J.R.J. Bridge Engineer
Date: Lag. 31, 1956

STRUCTURE NO F-14-Y





MISC. DETAIL

Arm. Interchange

1. 13+46.053 to 16+44.751

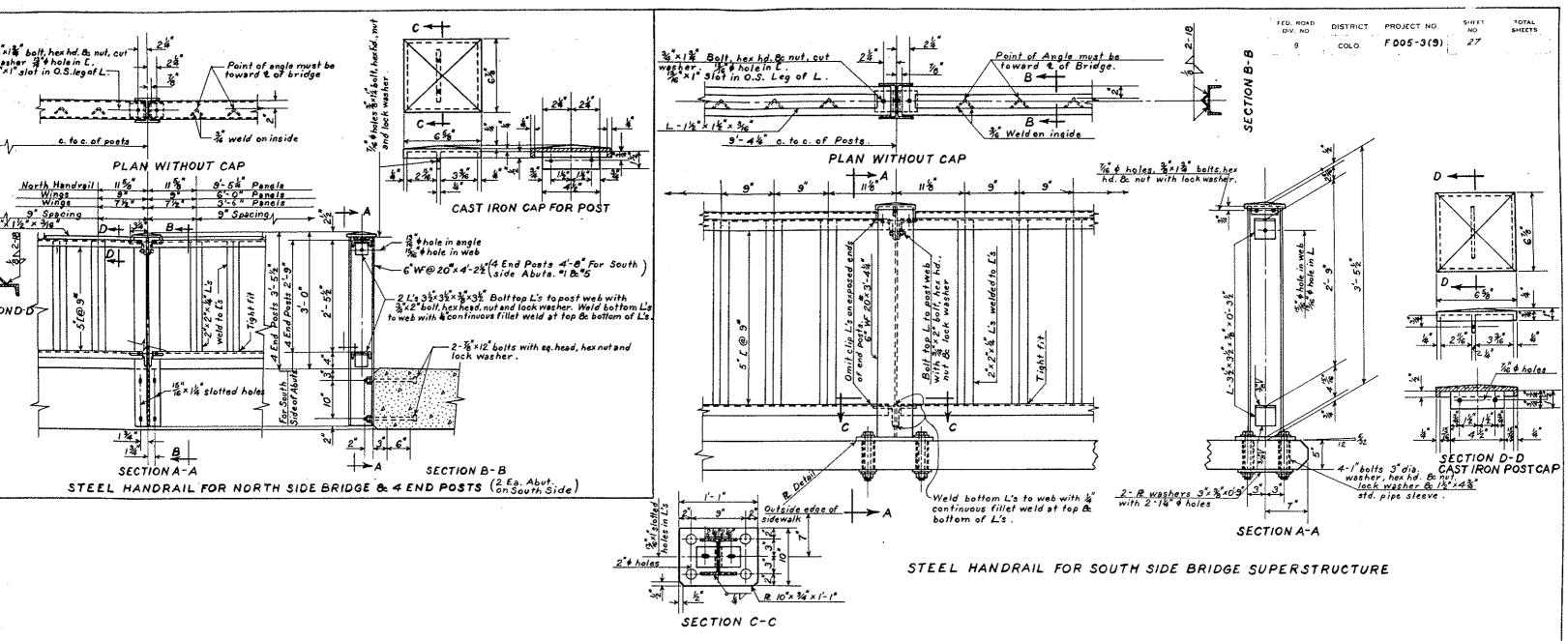
Near Idaho Springsoct. 31 | 35 R 72 W

Designants 6H.W | Approved by Archarlett

Minor in JRU. | Reiden Engineer

Check why | Data Acca. 3r. 1956

STRUCTURE NO F ~ 14 - Y



COLORADO
DEPARTMENT OF HIGHWAYS

DETAILS OF HANDRAIL

Across Interchange
Sta. 13+46.053To 16+44.751

Near Idaho Springs Sec. 31 T. 35 R.72W

Designed by Made by J.R.J. Bridge Engineer
Checked by Date: Acros. 31, 1956

B/	AR I	IST .	-SUPE	RSTI	RUCTU	RE
	T	No.		1	Dimen	sions
ark	Size	Regid	length	Type	£	m
<u>o</u> o.			6'-8%	VI.	2 64	11"
H6 FTT^	\ <del>/</del> 2 •	32	6'-8'4 6'-9"	ΔI.	2-6%	11"
112	1/2		6'-94"	VI VI	2'-7"	11"
113	Ç.	32	6'-9%	VI	2'-74	11"
114	₹.	16	6'.9%	VI	2-7	#1"
115	20	16	6'-10"	YY.	しゃいっしゃ	11"
116	%" <b>ф</b>	16	6'-104"	Αĭ	2-72	II"
117	24	16	6'-102"	VI.		"11
118	4	16	6'-11"	ΔI ΔI	2'-8"	11"
120	1,*4	16	6'-11's"	ΔI	2.8	11"
121	2"♦	16	7-1"	Δſ	2'-9"	11"
122	2° ♦	16	7-1%	M	2-93	11"
23	129	16		VΙ	2-9	11"
24	2 ¢	16	7-34"	VI.	2-108	11"
25	½°¢	16	7-55	ΔΙ ΔΙ	2-114	11"
27	12"4	16	7'-7"	All T	3-0"	11"
28	12♥	16	7'-8'4"	ХI	3.0%	31"
29	5₽	16	7-94"	AT	3-18"	11"
30	<u>4</u> ♥	16	7-114"	XI.	3.5	11"
31	2 ¢	16 16	8'-0출" 8'-0출"	XI XI	3-25	11"
33	20	16	8-44	双	3-34	-11" -11"
34	24	16	8 6 4	XI	3-4 6 3-5 8	117
35	1 > T	16	8'-84"	IV	3-68" 3-78"	il"
36	127	16	E -	VΙ	3-78	114
37	3 4	16	9-0%	A	2-881	(1"
38	24	16	9-02	XI.	3 104	11"
39 + <b>4</b> 0	2Φ 2Φ	16 16	9'-6'4" 9'-9'4"	AI AI	3-114	11" [["
41	2.4	16	10-04	XI.	4.25	11"
42	20	16		ΔĬ	****	11"
43	1	16	10.6	VΙ	4.5%	11"
44	2 4	16		ZI.	4-75	11"
45	24	16	11-13"	ZI.	4'93	11"
46	12 <b>0</b>	16	11-5 4"	<u>VI</u>	4'-11 1 " 5'-1"	11"
47 48	24	16	12'-1"	VI VI	5-1	11"
49	20	16	12'-5"	771	5-5"	11"
50	24	16	12'-9"	A	5-7	11"
51	¥*+	16	13,-1,	VI.	5'98"	11"
52	5 €	80 32	6'-8½" 6'-9"	<u> </u>	2'-62"	11"
54	2. <b>♦</b>	32	6-94	AT AT	2-7	11"
55	2 ♥ 2 Φ ½ •	32	6-93"	TI	2-7}	11"
56	½"♦	32	6'104	VI	2'-7 5"	u"
57	50	32	6'-11"	VI.	2'-8"	11"
58	12.◆	32	e,-113,	VL	2-83"	11"
59 60	\2 <b>4</b>	32	フー1 章"	ĀĪ	2.8 %"	11"
61	20	32 32	7-3"	Δī Δī	2'-10"	11"
62	40	32	7'-4'	VI.	2-10	11"
63	24	32	7-6"	<u>AI</u>	2'-11 2"	11"
64	1. P	32	7-7-4	Δī	3.03	11"
65	⁄2 Φ ½ Φ	32	7-93	77	3'-1-2"	110
66 67	2 P	32 32	8'-0"	ZI Z	3·2½" 3-3¾"	11"
68	5.φ 3.φ	32	8'-2 ±"	Δ <u>τ</u>	3-5#	11"
	2	32	8'-74"	Δ <u>I</u>	3'-6}"	11"
59 70	2 9	32	8-101	VI	3-73	{
71	2 ♦	32	9-24"	ΔI	3-93	11"
72	2 9	259	3'-10"	TI.	1,-5,,	1'-6"
73 75	2 4	432 96	39'-2" 8'-8 <del>§</del> "	5tr.	3.5%	7*
76	2 4	192	6-116	ш	2-642"	7"
77	24	32	10.2	<u>VI</u>	2-6% 4-3%	11"
78	½° ♦	32	10:72"	VI.	4.6	11"
79	4	32	11-04"	য্র	4 8 7	"11
BC	2 4	32	10.7½" 10.7½" 11.0½" 11.5½"	<u>A</u>	4-H4-	11"
81	7 %	32	12 4 2	VI VI	5-63	H"
82 83	20	35		쬬	5-4± 5-7±	1}"
0-	2Φ	32	13-42	YI IX	5 102"	11"
B5	2.4	32	13-11"	ш	6-2"	11"

	T.,2	No.	PERST	Ī	Dime	_
Mark	Size	1_	length	Type	<del></del>	n
486	124	32	14'-5 2	ΥĽ	6-5	
487	2"♦	16	13-54	Δī	5-112	1
488	1,0	16	13-10-4	VI.	6-1	1
489	150	16	14-23	Vr.	6'-3 } 6'-6 4	11
490	12.0 12.0	16	14-75	VI	6-64	" 1
491	15."♦	32	9:64*	য	3-11-6	11
492	49	32	9-104	VI	4:15	11
	2.	-		<del>  -</del>		$\dagger$
510	5.0	T	3-2"	¥	1-B"	15-
511			1'-8"			1
to	* o	l ea.	by8"to	Str.		
515			4-4			
516			3'-2"		1'-8"	
†o	58.0	l ea.	by 4"+0	V	<sup>by</sup> 4"t₀	1'-
524			5'-10"		4-4	
525			4'-8"		i	T
†o	<b>港</b> "中	l'eq.	b) 4" to	Ştr.		
535	-		8'-0"			
536			4-8"	<u> </u>	1	
to	*g◆	) ea.	Бу 8" +ο	5tr.		<del>                                     </del>
541	9.		8,-0,,	1	<b> </b>	1
542			8'-8"	<u> </u>		
	5 <sub>6</sub> ¢	2 60	pλ 8, +°	Str.	<del> </del>	1
+o 579	78.₹	L. 60	33'-4"	1		f
580	5.4		9'-0"	7 <u>X</u>	5:0"	3-
~~~					5-0"	
581			9'-7孝"	区	5'-0"	4-1
582	84		11-14"	J.A.	5-0	1
583	574	1	by 7 to	-	5'-0"	1'-l
+0	3 ♦	lea.	10-1 -7 5"	X	3-0	
590	_		16-54"	<del>                                     </del>		5'- 1'-0
591	8.5		15-24 N-34		EL 6"	1 -0
+0	ξ <b>φ</b>	lea.	6y74"+o	XI	5,-0,,	Бу 7.
597			20'-3 -			4-
598			£1-12			1'-3 6772
+0	秀中	l ea.	<sup>ру</sup> 7а́ то	XII	5'-0"	577
5105			25'-8"			5'-1
5)06			26-113"			1,-8
to	8 ¢	lea.	by 74" to	XIII	5'-0"	bу 7
5III			30'-2 2			4!1
5112			31'-0'-"			1-4
+0	8 6	lea.	by 73"+0	VIX.	5'-0"	by 7 2
5117		i	3 <del>4</del> '-3"			4'-
5118	5 'q	410	33'-8"	Str.		
5119	3 <b>ф</b>	1	2'-7"	<u>v</u>	1'-1"	1'-6
5120	\$ ¢	ı	2'-11"	A	≀-5"	11-6
5121	\$ \$	1	3'-3"	77	1'-9"	1'-1
E122!	- 2	)	3'-6"	X	2'-0"	1'-
5123	5 €	1	31-10"	V	2'-4"	1'~
5124	5 e	ı	4'2"	A	2'-B"	1'
5125	78.7	í	4'-6"	V.	3'-0"	1,7
5126	2. 6	1	4-9"	¥	3'-3"	)'- €
5127	≱"ø	1	5'-0"	Δ	3'-6"	1'- (
5128	500	-1	5-4"	¥	31-10"	1-6
5!29	%	1	5'-9"	Ā	4'-3"	1,-
5130	5,"♦	<u> </u>	6'-0"	V	4'-6"	1-6
5131	% ♦	1	6'-3"	¥	4-9"	1-6
5132			10"			
to	5.0	i ea.	by 8" +0	Str.		
5138	01		4'-10"			
5139	<u> </u>		4'-10"			
+0	×, φ	t ea.	by A to	Str.		
5151	. B. T		8,-10,	~''		
5152			41-10"			
+0	5,"▲	lea.	ы 8 +о	Str		
5158	BT	4.	8'-10"	V11.		
5159	9 ¢	1	9'-4"	ĪΣ	6'-2"	21.
$\overline{}$	5		9'-1"	17	6-1"	3'-
5160	āφ	1	10-7"		6₁-1	31.
5161			11-4"	ᄍ	6,-0, 6,-1	71
5162	6 4 8 4			IX	6-0	4'
5/63	* ¢	1	11,-10,	IX		
7010	5.°¢ 5.°¢	!	12'-8"	X	5'II"	1'- !
5165	> <sub>0</sub> ¢	. 1	13'-5"	X	5-11"	
5166	-8 φ	i	14'-0"	X	5-10"	
5167		· (	14-8"	X	5-10	
5168	φ	1	1543"	<b>X</b>	5-9"	4'-
5169	\$ €	7	15'-11"		5'-9"	5-

BAR	LIST	-SUP	ERSTR	UCTL	RE (C	OP?
		No.			Dimer	180
Mark	177		length	Type	1	1
5170	18.4		16'-6"	I	5'-8"	5
5171	8.4		17-4		5-8"	
5172	* ¢		18'-1"		5'-8"	
5173	17		18-8		5-8"	
5174	13	1	19'-4'		5'-7"	3
5175	3 4		20'-1		5'-7"	4
5176	3, 4	1	20'-6"		5'-6"	4
5177	1 0	1	21-4		5'-6"	
5178	1 o	·	22'-0	1	5-6	1
5179	13.9	1	22'-7		5'-5"	
5180			23'-4	XII	5'-5"	
5/81	78 ♦	1	23'-4		5′-5"	
5182			24'-9'		5'-5"	4
5/83	>₀ ♦	1	25-2*		5'-4"	
5184	% ♦		25'-11'		5'-4"	5
5185	9 0	,	26'-8"	Ж	5'-4"	6
5186	5,φ		27-6	XIII	5-4"	ı
5187	80	1	28-2	YM	5'-3"	2
5188	>βφ	ī	28'-11"		5-3"	3
5189	26 ♦	1	29'-7"		5-3"	
5190	5 <sub>8</sub> φ	i	30'-3"		5'-3"	4
5191	% ¢	<del>-</del>	30-10		5'-3"	5
5192	-8 φ	1	31-8"	XIV	5'-2"	T.
5193	57		32'-2"		5'-2"	2
5/94	5, 4 5, 4		33-2"	XIV	5-2"	3
5195	78 4		33'-10'		5'-2"	4
5196	24	<del></del>	9'-5"		1 3 - 6	┌
	8.".	2 ea.	578"to	54.		-
+0 5232	184	c ea.	32'9"	5tr.	ļ	-
	5.4.		34! 8"		5'0"	-=
5233	78.9	205	8-17	XIX	3-0	5
901	1/64	24	60-0	Str.		_
				ļ	]	
1105	164	32	26'-0"	5tr:		
1106	J2β.Φ		46'-0"	5tr		
1107	φ.	112	60'-0"			
1108	3 ф	32	13,-0,	5tr.		
1109	错中	8	35'-2"	5tr.		_
1110	' B '	8	36-8	Str		
Ш	1次。	8	38'-3"	Str		
1112	13,4	60	41'-0"			_
1113	1300	32	27'-0"	5tr;		
1114	1300	8	43412	Str	<del> </del>	
	13,54	40	43'-0			_
1116	13.0		30'-0"	Str.	<del></del>	
1117	, 3, 6	16	50'-0"	Str.	<del>  </del>	
1118	1 в ф 1 в ф	32	18'-0"			
2111	30	20		Str.		
1119 1120 1121 1122	3"	24	34'-0"	5tr:	<del> </del>	
1120	189	32	27-0"	Str	;	
1121	3.0	40	44-0"	Str	<u> </u>	
1122	178	40	50'-8"	Str		
1123	180	В	44154"	5tr.		
1124	1=64	8	45'0"	Str	I	
1125	1764	8	45-64	Str	T	
1126	骨	8	46-02"	Str		
495	4 ~	506	7'-11"	XX	5.7	2
496		·-···				_
	20	256	4'-11"	<u>V</u>	4'-0"	0.
497	2 #	-	2'-0"	Str.		
498	20		3'-0"	SIr		
	2 0	_!_	4.0	Str		
1100	źø	6	8'-10"	XX	4'-0"	2.

P170	13 77	1	2017	1 2021	PIPE	2-4
5179		_	22'-7		5'-5'	
5180	30	!	23'-4		5'-5'	
5/81	78 6	1	23'-4		5'-5'	
5182	*	1	24'-9'		5'-5'	
5/83	1/2		25-2*		5'-4	
5184	18 9		25'-11'	XII	5-4"	,
5185	9 1	1	26'-8"	XII	5'-4'	
5186	5,4	1	27-6	XIII	5-4	<u>'   '-  </u>
5187			28-2	XIII	5-3"	2'-7"
5188	58 φ		28'-11"		5-3"	3-4
5189	28 ₫	1	29'-7"		543	. <b>t</b>
5190	584	1	30'-3"		5'-3"	
5191	384	<del>                                     </del>	30-10		5-3"	
5192	5."4	1	31-8"	XIV	5'-2"	
5193		<del>}</del>	32'-2"		5-2	
	8	<u>                                     </u>		·		
5194	38,	1	33'-2"	XIX	5-2"	3'-4"
5195	58 ¢		33'-10'	XIX	5'-2"	4'-0'
5196	1	1	9'-5"			ļ
+0	980	2 ea.	67 8"to	5tr.	ļ	
5232	1		32-9"		L	
5233	58 \$	205	34-8"	XII	5'0"	5'-0"
	1			I		T
901	1/84	24	60'0"	Str.		ļ
	T.A.T			·	t	i
1105	184	32	26-0"	5tr:		
1106	13.0	32	46'-0"			<del> </del>
1107	3.	112	60'-0"	5tr.	<del></del>	<del> </del>
1108	3.4	32	13,-0,		<del></del>	<del> </del>
	3 o	34	35'-2"	Str.		<del>                                     </del>
1109	13 4	8		Str.		ļ
1110	120	8	36-8	Str		
1111	1/3 4	8	38'-3"	Str		
1112	1/2 0	60	41'-0"	AIII		
1113	130	32	27'-0"	5tr;		
1114	130	8	43412	Str.		
1115	13,0	40	43'-0"	Str		
<u>}([6</u>	184	16	30'-0"	Str.		
1117	12.0	16	50'-0"	Str.		_
1118	1 6 4	32.	18'-0"	Str		
1119	13°4	24	34'-0"	5tr.		
(120	1300	32	27'-0"			
1121	1 2 "A	40	44.0	Str.		
	3.4		50'-8"	Str		
1122	1784			Str		
1123	1 % ¢		44154"	5tr.		
1124	13,4	8	45'0"	Str		
1125	t > 6	8	45-64	Str		
1126	180	8	46-02"	Str		
495	źø	506	7'-11"	XX	5.7.	2'-4"
496		256	4'-11"			
	20			V	4'-0"	0:11,
497	žø	1	2'-0"	Str.		
498	20	1	3'-0"	Str.		
499	2 0	1	4.0	Ste		
4100	źø	6	8'-10"	IV	4'-0"	2-10

42758 lin.ft. 2000.668 #/lin.ft. = 28562 lbs.

25210 linft \$ + @ 1.043 1/lin.ft = 26294 lbs.

1440 lin ft 18 0 3.40 7 lin ft = 4896 lbs

24487 lin. ft. 1 4 5.313 / lin. ft. = 13 0099 lbs

Plus 170 + Overrun = 1899 lbs

Total = 19175016s

Mark Size Requi length 401 2" \$ 84 513" 402 2" \$ 57 1013" 403 2" \$ 12 1013" 404 2" \$ 8 8 6.0" 405 2" \$ 2 1010" 405 2" \$ 2 1010" 501 \$ 56 418"  801 1" \$ 8 2410"	Str. IV V Str. Str. Str.	3'-5 <sup>1</sup> / <sub>2</sub>
402 ½ \$ 57 10 - 3" 403 ½ \$ 12 10 - 3" 404 ½ \$ 8 8 - 0" 405 ½ \$ 12 9 - 6" 406 ½ \$ 2 10 - 0" 404 ½ \$ 6 2 4 - 10" 501 \$ 56 4 - 8" 801 1 \$ 8 24 - 0"	Str. IV V Str. Str. Str.	3'-5' 4'-5' 8'-6"
403 ½	Str. IV V Str. Str.	41-5
404 ½" \$ 8 6'-0" 405 ½" \$ 12 9'-6" 406 ½" \$ 2 10'-0" 494 ½ \$ 2 4'-10' 501 \$ \$ \$ 56 4'-8" 801 1" \$ 8 24'-0"	Str. IV V Str. Str.	41-5
405 ½°\$ 12 9'-6" 406 ½°\$ 2 10'-0" 494 ½ \$ 2 4'-10' 501 58 \$ 56 4'-8" 80! 1"\$ 8 24'-0"	IV V Str. Str.	
405 ½ ¢ 2 10°0" 494 ½ ¢ 2 4°-10° 501 5 6 4°-8" 80! 1" ¢ 8 24°-0"	Str. Str.	
494 ½ \$ 2 4'-10' 501 % \$ 56 4'-8" 801 1" \$ 8 24'-0"	Str. Str.	8'-6"
501 % \$ 56 4-8" 801 1" 8 24-0"	Str	
801 1"4 8 2410"		
<del></del>	64	
<del></del>	C.L.	
	OTT.	
802 1"4 56 22-6"	5tr.	
803 1"0 4 47-0"	5tr.	
806 I" 4 29'-6	Str.	L
817 1 2 35-9	Str.	
809 1"4 4 37-1"	Str	
810 1"4 2 48:0"	Str	l
811 1"4 2 25'-0"	Str.	
		I
1101 18 4 16 6'-0"	Str.	
	1	

807 1" \$ 4 45'-6" Str.

808 1" 4 35-9" Str.

(10) 13 16 6'-0" 5tr.

BAR SUMMARY ABUTMENT NO.1

1348 lin. rt. 12 0 0.668 1/ lin. ft. = 901 lbs

261 lin.ft. 5 + 1.043 / lin.ft. = 272 lbs. 2102 lin. ft. 1" @ 2.67 / lin. ft. = 5612 lbs. 96 lin. ft. 13 6@ 5.313 1 lin. ft. = 510 lbs.

Plus 1 % Overrun = 75 lbs. Total = 7370 lbs

## BAR SUMMARY-ABUTMENT NO.5

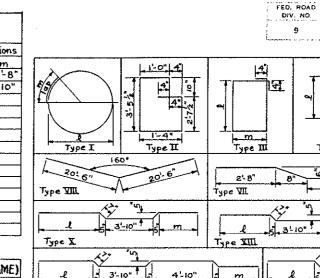
1356 lin.ft. 2 0.668 1/lin.ft. = 906 lbs 261 lin.ft. \$ @ 1.043 /lin.ft. = 272 lbs. 2124 lin.ft.1" @ 2.67"/lin.ft. = 5671 lbs. 96 lin ft. 1300 5.313 1/lin.ft. = 510 lbs. Plus 176 ± Overrun = 76 lbs

Total = 74351bs

В	AR	LIST	ABUTI	MEN	T NO.	1		B	AR	LIST	- PIE	RN	10.2	
		No.			Dimer	sions					Piers 3	1 4	Sam	ટ
Mark	Size		length	Type	0	m	- 41			No.			Dimen	sions
40	24	84	5'-3"	Ī	1'-5"	10"		Mark	Size	Regid	length	Type		m
402	40	57	10'-3"	II.				407	1/2 ♦	52	13-101	<b>₹</b> I	5-94	1,-8,
403	ኒ"ዕ	9	10'-3"	III	3-5%	1-4		408	120	76	6'-4"	I	1:0,	10"
404	20	8	8'-0"	Str.			1				<del></del>	1		
405	½ φ	14	9'-6"	17	4'-5"	8"		601	4,4	80	6'-0"	Str		
406	4 ♦	г	10,-0,	Ā	8'-6"	1-6"		602	4.0	4	33'-0"	Str.		
493	Į°ø	г	6'-9"	Str.								<u> </u>		
501	5. <b>♦</b>	56	4'-8"	Str.	-			812	I"p	56	20-6	Str.		
								813	1"0	В	24-0"	5tr.		
801	1"♦	8	24'-0"	Str.				814	1°¢	8	33'-2"	Str		
808	ľψ	56	22'-6"	Str.				815	}*ф	8	21-0"	Str		
804	ľφ	6	30'-9"	Str.				816	1"+	4	24'- 8"	Str.		
805	1 4	2	40'-6"	Str.										
806	ľφ	2	29'-6"	5hr.				1102	12.4	32	6'-2"	ΔIJ		
007	18 4	4	45'-6"	C4										

#### BAR SUMMARY-PIER NO.2 (3 44 SAME)

1203 lin. ft. 1240 0.668\*/lin. ft. = 804 lbs. 612 lin. Ft. 4 @ 1.502 1in. Ft. = 919 lbs. 1872 lin. ft. 1" @ 2.67"/lin. ft. = 4998 lbs. 197 lin.ft.13 @ 5.313\*/lin.ft. = 1047 lbs. Plus 1% ± Overrun = 82 lbs. Total = 7850 lbs.



2'-8" Type IX 5.3-10" 3'-10" 5 4'-10" 3-10" Type XI Type XII />, 5 3 10 5 m Type XXX BAR BENDING DIAGRAMS Dimensions out to out of bar Туре ХХ

> COLORADO DEPARTMENT OF HIGHWAYS

SHEET

28

PROJECT NO.

F 005-3(9)

DISTRICT

COLO.

| m .

TypeII

TOTAL

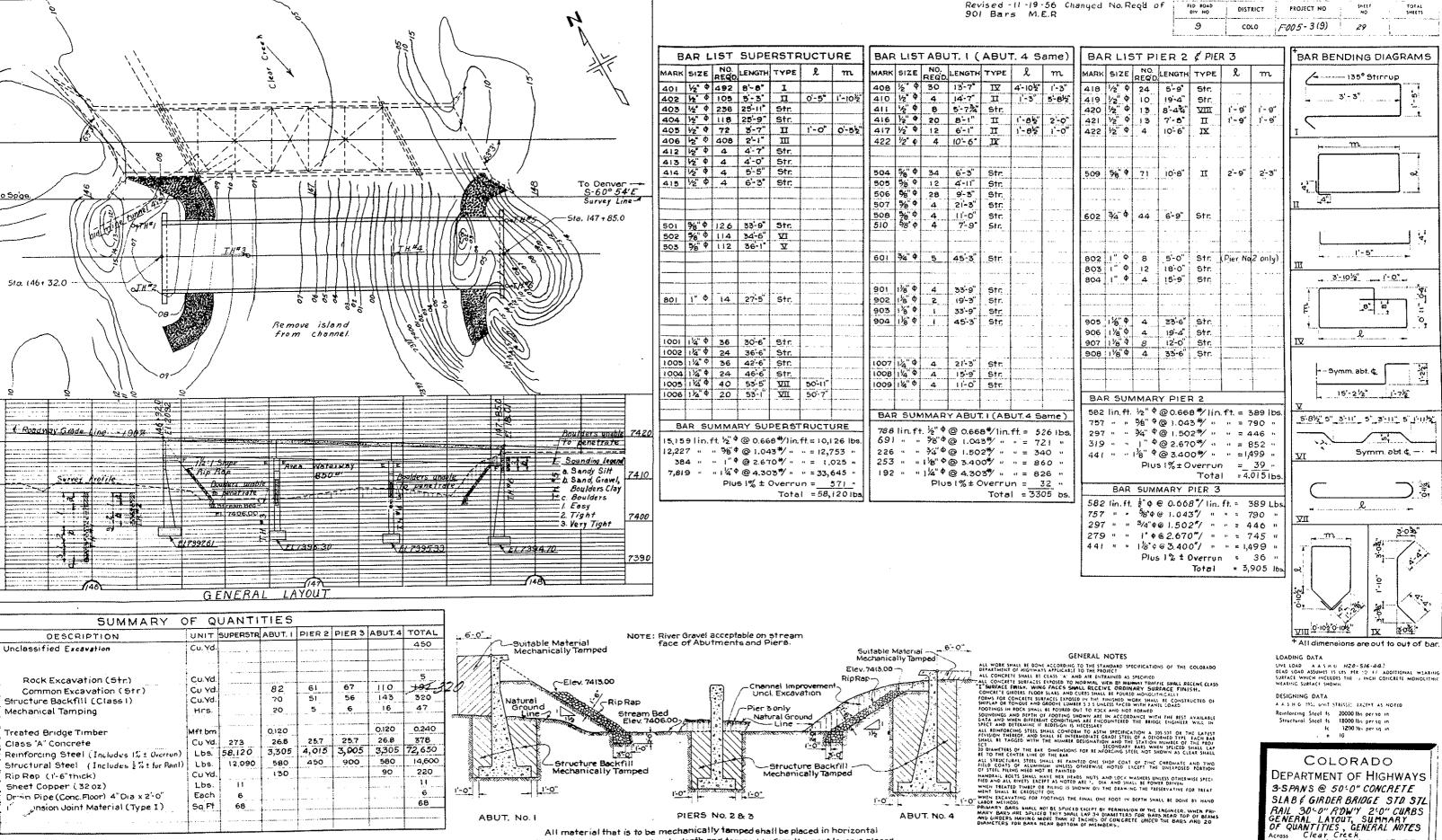
SHEETS

- m

Type VI

BAR LIST

Across Interchange Sta 13+46.053 to 16+44.751 NearIdaha Springs Sec. 31. T. 35 R. 72W Designed by Made by R.G.N Checked by Date: Approved by 27 MeroLL Bridge Engineer Date: App. 31, 1956



ludes 13,250 lbs. of Steel Handrailing Expansion Joint Material to be Type I, A.A.S.H.O., M 153-54 and to be included ne Bid Price of Class A" Concrete.

Class "A" Concrete

Rip Rap (1-6"thick)

Sheet Copper (32 oz)

Reinforcing Steel (Includes 1% ± Overrun)

Structural Steel (Includes 2 % t for Paint)

nsion Joint Material (Type I)

Drain Pipe (Conc.Floor) 4"Dia x 2'-0"

Cu Yd.

Lbs.

Çu Yd.

Lbs.

Each

Sq.Ft

273

58.120

12,090

11

68

378

72,650

14,600

220

11

68

1'-0"

ABUT, No. I

26.8

3,305

580

90

26.8

3,305

580

130

257

4,015

450

257

3,905

900

PIERS No. 2 & 3 All material that is to be mechanically tamped shall be placed in horizontal layers not more than 6 inches in depth and tamped before the next layer is placed.

-Structure Backfill

1,-0,

ABUT, No. 4

-Structure Backfill Mechanically Tamped

STRUCTURE BACKFILL & MECHANICAL TAMPING DIAGRAMS

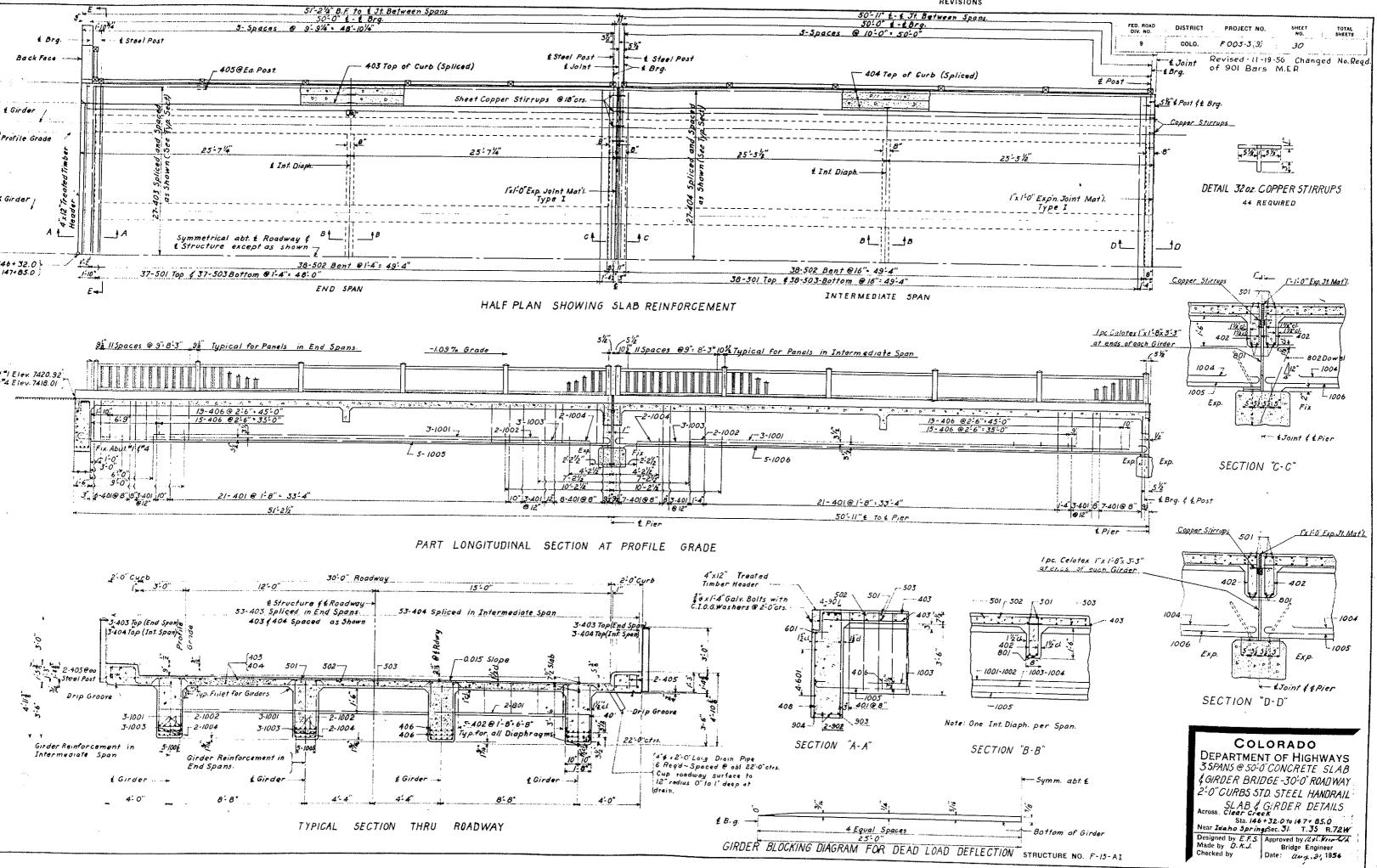
STRUCTURE NO. F-15-AI

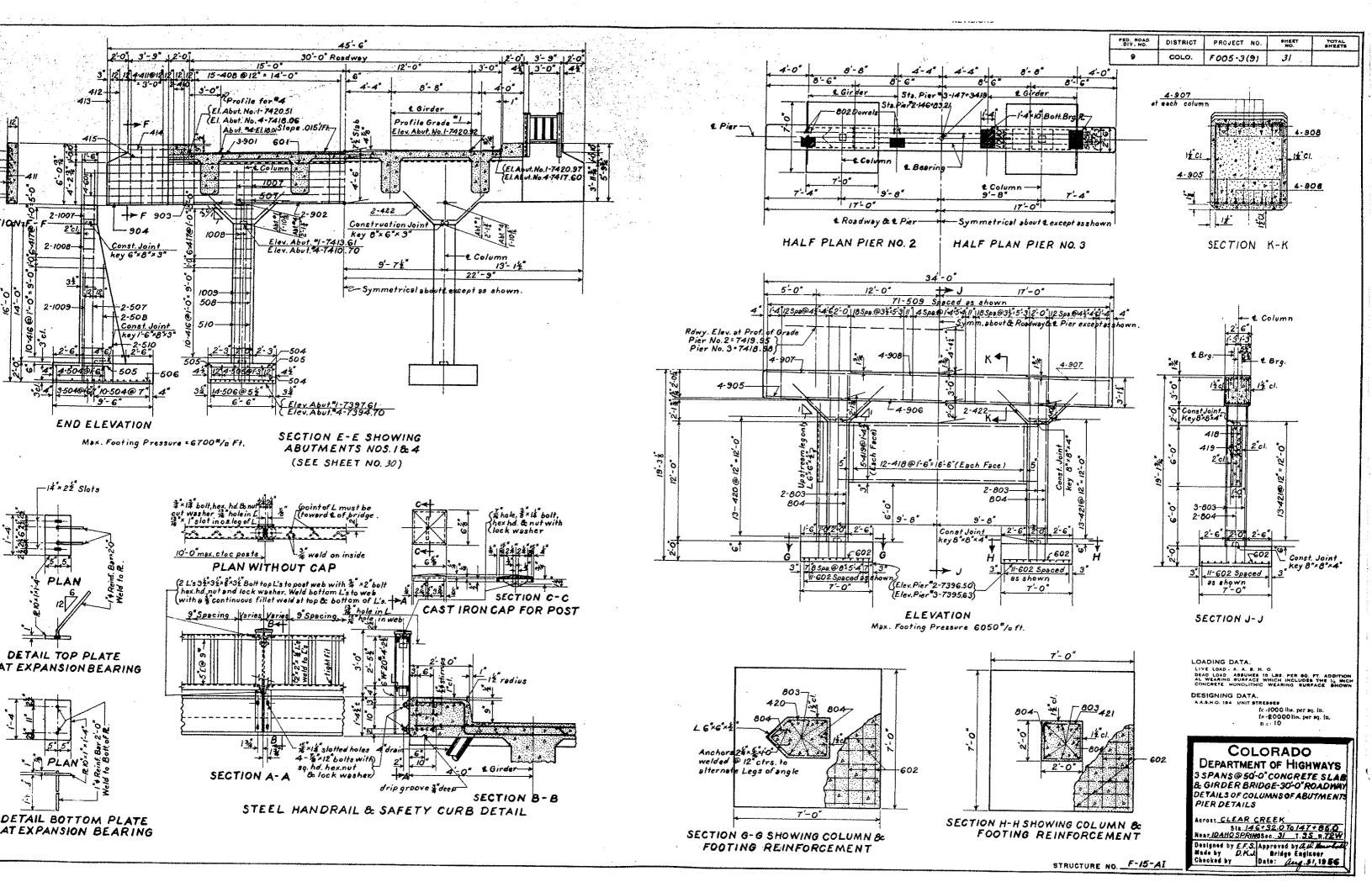
+ All dimensions are out to out of ba

### COLORADO

DEPARTMENT OF HIGHWAYS 3-SPANS @ 50'0" CONCRETE SLAB & GIRDER BRIDGE STD. STL RAIL 30'-0" ROW'Y 2'0" CURBS GENERAL LAYOUT, SUMMARY OF QUANTITIES, GENERAL NOTES Across Clear Creek

Sto 146 + 32.0 to 147 + 85 0 Neor Idaho Springs Sec 31 T 3 S. R.72W Designed by EFS Approved by A. Pero GA Made by EMC Bridge Engineer Made by EMC Bridge Engineer
Checked by Date 1109, 11, 1956





Pier No. 2

2347 Linft 2 + @0.668 Lbs/Linft > 1568 Lbs

987Lin.Ft% 0 1.502Lbs./LinFt.= 1482Lbs.

4442Lin.Ft. 1" \*@ 2.67Lbs./Lin.Ft. 11860Lbs. 395 Lin Ft. 18 65.313 Lbs. /Lin Ft. 2099 Lbs.

Plus 1% t Overrun = 171 Lbs.

Total = 17180 Lbs.

					,	•
S15744.0	13 Concrete 3 1X124 C. M.P.	Solet 1525		ne 120	N. 42° 40'5	15
1 1 1	8/6	-7525	8. Sewer			
Cribbing Cribbing	Loading Dock	? 			B. Sewer	1617.0
ini Cooding Dors	JH. 2	.///	CREEK		P.L.	
100				TH.	5 1 70'	ş e
ster 5. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ST.	3 //	200 - O.S.		use 10	•
9	Bridge -	00	// Sta.60	68°57'E.		
Shedi In			TH. 4 7525-30 3			=
	94 13 91 31 30 Portol	45	1550	5		
Top less the		-2003	60 = 60 = 70 70 70 70 70 70 70 70 70 70 70 70 70			_
CLEAR				5	76	 
Joapath To June 18	A BE			95	2/	05
1000	Line Bibbouring	-			61145.	
55 60 65	Bline Bippouringer			ζ.	7) 3	
Symbols in Soundings	500'v.c.		80n£			26.56
*Gravel  n.R.* Granite Rock	47.30		7.42.099on	112.1		75.50
= Rock = Sand = Easy = Tight = Very Tight	Elev.75		Sta 6	-37		
Tight Sad	9	T		5.96 <sup>2</sup>		/ S 7540
10,2052			/		/	20
VV.	Area Waterwa alkway 5 = 630 Sq. ft. 1	Walksay,			7	7530
Riplap	198	Ripr	ар 📗			
	\$ 2,1w	A	a l			7520
2 8 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28.2					
Sign That		97		H'5		7510
	THZ	- L - C	ble to Dritt, Box	loers		
57 58	59 ~		T.H. 73	6 i		62 7500
	Y OF QUANTI			,		
Description	Unit Superstructur	e Abutment No.	Pier No.2	Pier No.3	Abutment	i
lassified Excavtion  Rock Excavation (Str.)	Cu. Yd.	21		237	181	93 <i>0</i> 439
nmon Excavation (Str.) ucture Backfill (Class I)	Cu. Yd. Cu. Yd.	358 251	354 287	280	131	7 <i>60</i> 949
chanical Tamping	Hour	82	28	18	102	230
ated Bridge Timber	Mfr.bm.	0.429			0.363	0.792
ss A' Concrete	Cu. Yu. 849.2	76.7	47.6	49.5	73.0	1096.0
inforcing Steel (Includes 1% t for Overra	) Lü. 16270	15 69 5 670	17180	17940	15555 685	294 145 1762 5
vervial Steel (Includes 5% ! for Paint,	* A 14 . *	368			382	750
vetural Steel (Includes \$%! for Paint prap	Cu. Ya.					
orap Syansion Joint Material (Type I)	5q. Fl. 222				ļ	222
ргар						222 425

gnation MI53-54 and of the type shown.

240 : 107	TOLLOAG
BAR LIST	BAR LIST
Abutment No.1	Abutment NoA
No. Dimension Mark Size Reg'd Length Type & m	No. Dimension Mark Size Regd Length Type & m
4105 12 9 94 10-1012 XIII	4105 6 79 10-10% 311
4106 12 10 10-10 2 X 3'-5/4 1-8"	4106 2 6 10-10% X 3-54 1-8"
107 ½	4107 1/2 * 197 6"- 2" XIII
1108 ½ 4 20 7-9" Str. 1109 ½ 13 4:4" Str.	4108 2 9 20 7-9" Str. 4111 2 9 13 4"0" Str.
110 ½ 13 4'-6" Str.	4112 ½ † 13 4-6" 5tr.
100 % 144 5'-6" Str.	5400 56 144 5-6" Str.
01  1" Φ 4 32- 9" Str.	832 1" + 128 3"-0" Str
מאַ יוי פּ אַ אַרי בּיי בּיי	835 1" 1 54-0" 5tr
03 i" \$ 5 28-9" Str.	836 1 + 1 60-0" 5tr
04   1   30-3" Str	637 1" * 1 59'-6" Str.
03 1	835   1   1   54-0   5tr   836   1   1   60-0   5tr   637   1   1   59-6   5tr   838   1   1   53-9   5tr   839   1   1   53-8   5tr   839   1   1   53-8   5tr   840   1   1   1   1   1   1   1   1   1
06 1" f   38'-6" 5+n 07   f   36'-4" 5+r	839   4   53-8" Str 840   4   59-9" Str
08   4 41 0" Str.	841 1" 1 00-0" Str
09  " # 2 27 3" Str	
10 1 9 1 20 0 Str.	842   1
11   1'   1 22-0"   Str.	0.45 11 60 77 61
12 1" / 4 37 0" Str.	846 11" 9 1 52'-0" 5+c
314 1° 1 30'-6" Str	B47 1 4 1 52-1" Str
15 1'P   28'0" Str.	849 1 1 58'-4" Str.
516 1" \$ 2 22-6" 5tr	849 1 1 57-9" Str.
17 1" f 14 21-3" 5tr	850   1 1 52 C" Str 851   2 22-0 Str
18   1" # 2 23'-0" Str.	8521 + 14 20'9" Str
20   * 2 23-6" Str	853 1" + 2 23-0" 5 tr
21 1" # 14 22:3" Str.	854 1° 4 14 21-9" 5 tr
22   " 4 2 24 0 Str	855 1 f 2 24-0" Str
23   " 9	856 1" \$ 14 22-9" 5 tr
4 1" 9 2 24-6" Str.	8571" 4 2 25"0" Str 8581" 4 14 23'9" Str
61" \$ 2 25'0" Str	E591" \$ 2 26-0" Str
7   " •   14 23-9" Str.	5601" \$ 14 24-9" 5tr
8   4 2 25-6" Str. 9   4   14 24-3" Str.	86/ 1" \$ 2 27' 0" S+r
9   1	862 1° 14 25-9" Str 863 1° 12 28-6" Str
1 1 4 14 24'-9' Str.	B641 * 14 27-3" Str
12 1" + 12B 3'-6" Str.	865 1" \$ 2 29'-0" Str
	866 1" + 14 27-9" Ste
55 118 + 32 60" Str.	1165 176 32 6-0" Str
BAR SUMMARY	Hos 146. 25 .0-0 .316
Abutment No.1	BAR SUMMARY
554 Linft ½ †@.668Lbs./Linft = 1,706 Lbs. 792 Linft 56 †@1,043Lbs/Lin.Ft = 826Lbs.	Abutment No. 4
1926,674 98 161,043669,166,77 826665. 4896,674 962,67669,166,71,986665	2405 Lin Ft. 12 4 @.008 Lbs. / Lin Ft. = 1,607 Lbs.
192Lin.Ft.1% *@5.313Lbs/Lin.Ft. 1,C20Lbs.	792 Lin. Ft. 56 + @1043 Lbs. / Lin. Ft = 820 Lbs. 4475 Lin. Ft. 1 + @ 2.67 Lbs. / Lin. Ft = 11948 Lbs
Plus 1% = Overrun = 157Lbs.	192 Lin. Ft. 136 0 53131 bs. /Lin. Ft. = 1,020 lbs
Total = 15,6951bs.	Plus 1% = Overrun = 15416s.
	Total = 15,555lbs.
	itable material
mec mec	chanically Tamped
10000000000000000000000000000000000000	
	,
[原系列 [後念]	<u> </u>
Ground h	ine D
Structure Ba	
mechanically Tar	mpea /

# - 4-10 10 + 4--+ H-1'0"1'0". . H.

STRUCTURE BACKFILL & TAMPING DIAGRAMS All material that is to be mechanically tamped shall be placed in horizontal layers not more than 6" in depth and tamped beforethe next layer is placed

Revised: Quantities -Class "A" Concrete for BAR LIST Superstructure. JGG 4-26-57 Mark Size Regul Length Type & r

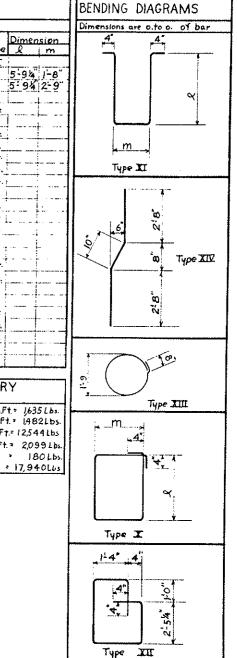
		No.			Dinen	sion							
			Length	Type	l e	m			BAD	LIST			
				XW	<u>.</u>		<u></u>						
4120	72 0	82	13-102	XI_	5-94	1-8"	L		Pier	No. 3			
								ļ	No			Dimer	35
601	4 +	160	6'-2"	Str	 	[				Leng th		Ŀ	Ĺ
		į					4107	2 *	212	6-2"	XIII.	<u>.                                    </u>	-i .
832	150	/28	3-6"	5tr			4120	1/2 +	80	13-102	XI	5-94	
870	j" 🕈	. 16	54-3"	Str			4121	12 4	2	14-112	П	5 94	]/
			25'8"				<u> </u>	ļ.,	-			i	1
872	1".#	14	22'-3"	Str			601	34	160	6-2"	Str		Ĺ
873	[* <b>*</b>	2	26-2"	Str.			L	į	<u> </u>			!	1.
874	j"#	14	22-9	Ştr.		]	832	1" *	IZB	3'-6"	5+r.		1
875	1"8	2	26-8"	Str						54-3"		:	i
			23.3							27-8"			l
877	۱" ۴	2_:	27-2	Str.			880	1, 6	14	24-3"	Str.		Ξ.
378	{" <b>∮</b>	14	23'-9"	Str		I		1, 4	2	26-2"	S+r.		
379	1" 0	2	27'-8"	\$tr			882	1" 4	14	24'-9"	Str		i
880	1	14	24'-3"	Str		l	883	J* 🛉	2	28'-8"	Str.		į.
881	1.8	2.	28'-2"	Str						25-3			Γ
882	1" 1	14	24'-9"	Str		j	885	° ¢	2	29'-2"	Str		:
883	]" 🕈	2	28'-B"	Str						25' 9"			
884	f" •	4	25-3"	Ştr.		]				29.8"			-
385	ļ" 🛉 🛚	2	29-2	Str	:	- 1	888	J* 🗲	14	26'-3"	Str		Ī
880	" ¢	14	25-9	Str		1	889	J** •	2 .	30'-2"	Str.		İ
						1	890	)" <b>*</b>	14	26-9"	Str.		-
170	13/8 *	64	6-2"	XIV .	- 7		891	j" 🛉	2	30'-8"	S+-		į.
							892	J" #	14	27-3"	5+.	1	Ī
		BAR	SUMI	MAR	Υ		893	j" φ	2	31-2-	5+,		-
		Pier					894			27-9"			
22471	ادع	."+0	2 4 4 0 1 1	n · EL	- 1011		[						

BAR SUMMARY Pier Na3 2447 Linft 1/2 9@0.668 Lbs /Linft = 1,635 Lbs. 987 Lin. Ft. 34 "@ 1.502 Lbs./Lin. Ft. = 1482 Lbs. 4698 Lin Ft.1° +@ 2.67 Lbs./Lin Ft.= 12,544 Lbs 395 Lin. Ft. 136 4@5.313 Lbs. 1 Lin. Ft. = 2,099 Lbs Plus 1% + Overrun . 180 Lbs.

Total

1170 1% 64 6'2" XIX

TOTAL SHEETS DISTRICT PROJECT NO. F005-3(9) 37 COLO.



#### GENERAL NOTES

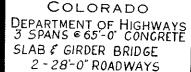
ALL WORTH SHALL AS COME ACCORDING TO THE STANDARD STRUCTURES OF THE COLORADO DEAFTMENT OF HIGH-MARK APPLICATED THE STRUCTURE STRUCTURES OF THE COLORADO DEAFTMENT OF HIGH-MARK APPLICATED TO THE THE THE THE ALL CONCRETE SHALL BE CLASS TO A TO ARE TO THE THE STRUCTURE SHALL BE CLASS TO A TO ARE THE SHALL BE CONCRETE SHALL BE LOSS TO TO MORMAN HICH BY HICH PRODUCT HICALY CONCRETE SHAPES STANDED ON THE PROPERTY OF SHALL BE CONSTRUCTED OF SHALLAR OF TOROIGE AND GROWN HEADS SHALL BE CONSTRUCTED OF SHALLAR OF TOROIGE AND GROWN HEADS SHALL BE CONCRETE SHAPES SHALLOW HE SHALL BE CONSTRUCTED OF SHALLAR OF TOROIGE AND GROWN HEADS SHALL BE CONSTRUCTED OF SHALLAR OF TOROIGE AND GROWN HEADS SHALL BY THE SHALL SHALLOW HEADS SHALL BE CONCRETE WITH THE SEST AVAILABLE TO SHALLOW HEADS SHALL BE SHALLOW HEADS AND GROWN HEADS SHALL BY THE SHALLOW HEADS SHALL BE SHALLOW HE SHALLOW HE SHALLOW HEADS SHALL BE SHALLOW HE SHALLOW HE SHALL BE SHALLOW HE SHALLOW HE SHALL BE SHALLOW HE SHALLOW HE SHALL BE SHALLOW HE SHALLOW HE SHALL BE THE SHALLOW HE SHALL BE THE SHALL BE THE SHALLOW HE SHALL BE THE SHALL BE THE SHALLOW HE SHALL BE THE SHALLOW HE SHALL BE THE SHALLOW HE SHALLOW HE SHALL BE THE SHALLOW HE SHALL BE THE SHALLOW HE TO DIAMPTER OF THE EAST DIMINIONS FOR EL NOT. SHOWN AS CLEAP SHALL ET TO THE CHITTERS OF THE EAST AND THE PARTY OF THE EAST AND THE TENTH OF THE COAT OF ZINC CHROWSTE AND TWO FILLS COATS OF ZILLMINIONS HELDS OF THE PRINCES OF THE UNITADES OF PRINCE OF STEE PRINCES OF THE WILLSS OF THE PRINCES OF THE WILLSS OF

LOADING BATA

CHE CON ... A = 1 P.D. M20\*516 DIAC COO ASIGMS ON SIX MEESO AT ADDITIONAL MEARING STATEST WINCH INCLUDE THE ... INCH CONCRETE MONOLITHIC MEANING SCREALS SHOWN

DESIGNING DATA

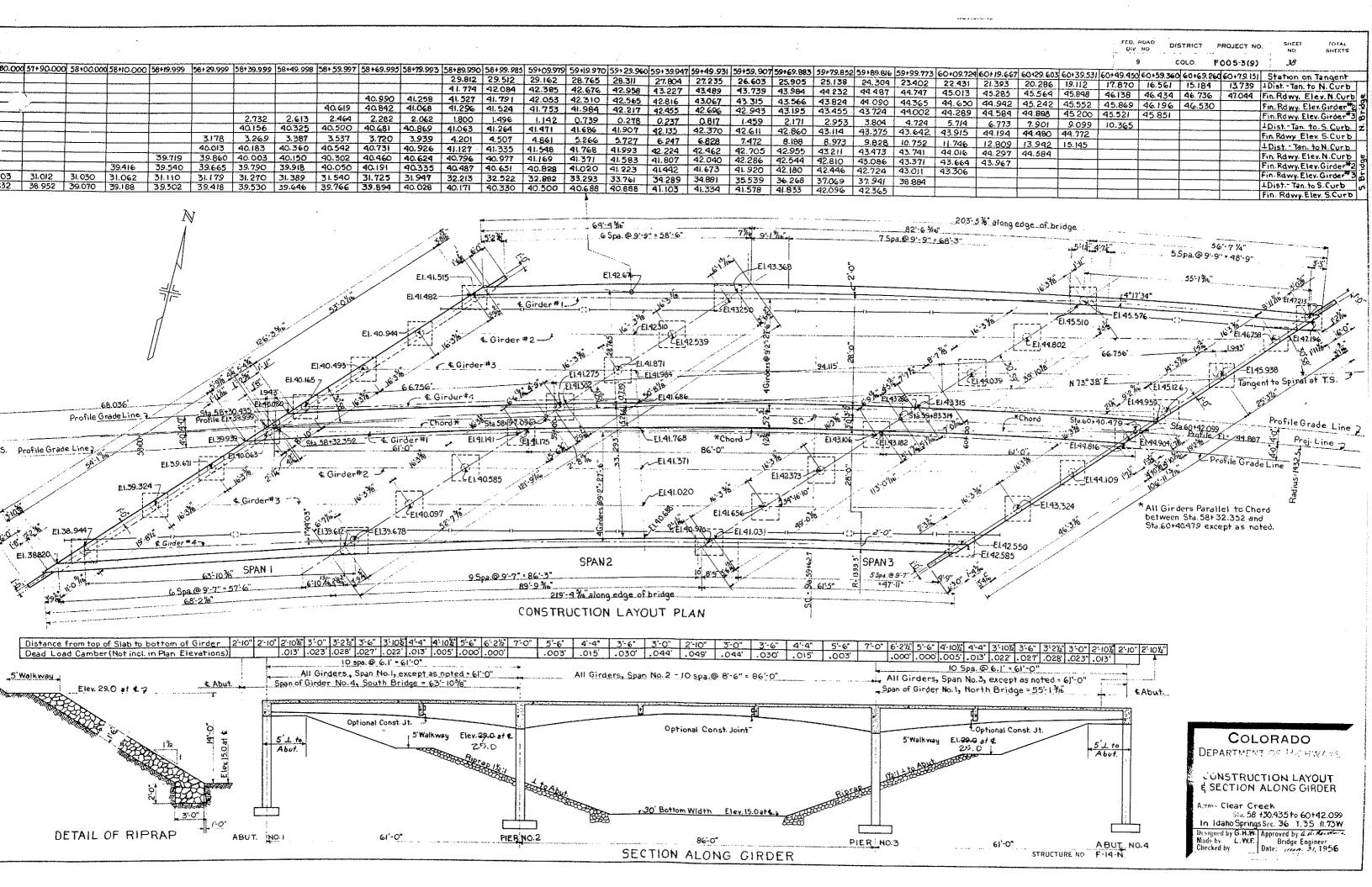
A SISH CORSIONAL STRUCKS BYCHY AT NOTED Reinforcing Steel Is 20000 lbs per sq in 18000 lbs per sq in 1200 lbs per sq in

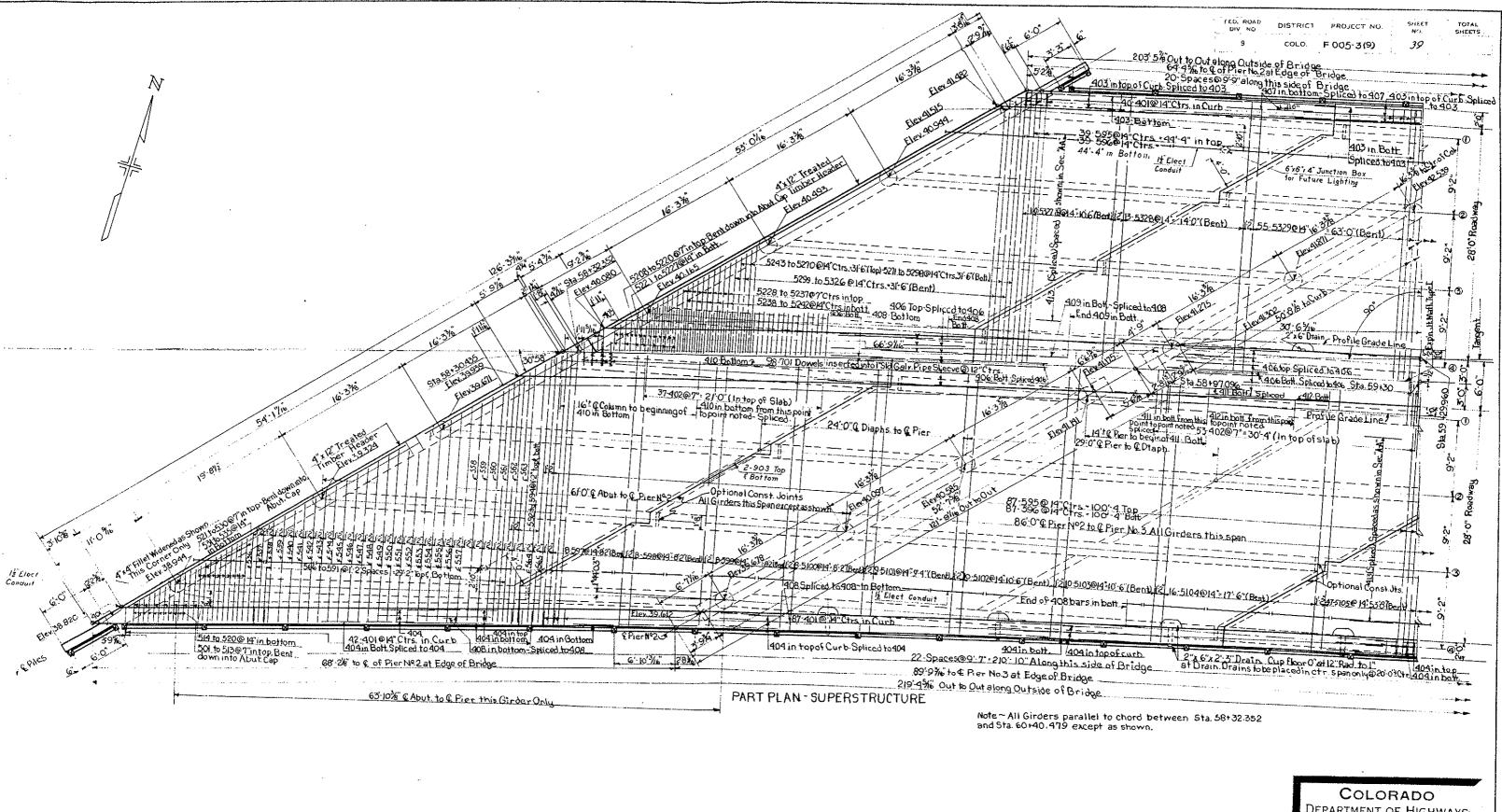


GENERAL LAYOUT & BAR LISTS Across Cicar Creck Sto. 58+30.435 to 60:42.099 on 4

In Ideho SpringsScc 36 T. 35 R 73W Designed by G. H.W. Approved by 17 - 11-6-1. Approved by 18. P. Bridge Engineer Bridge Engineer Dote: Lug. 11, 1956 Checked by

STRUCTURE NO F-14-N

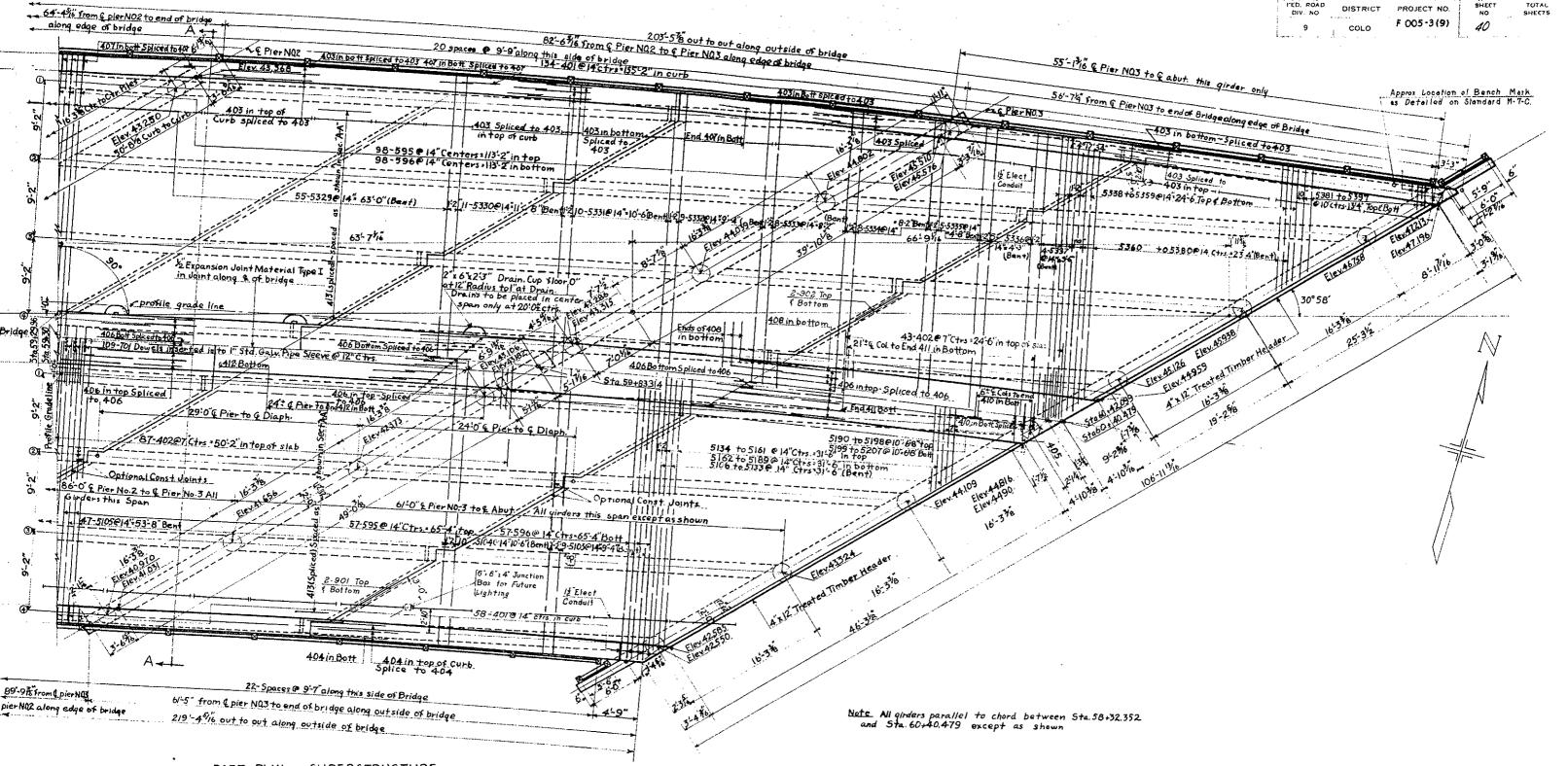




DEPARTMENT OF HIGHWAYS

PLAN OF WEST HALF OF SUPERSTRUCTURE

Across Clear Creek Sta. 58+30.435 to 60+42.099
Near Id also SpringSec. 36 T. 35 R.73W
Designed by G. H. W. Approved by A. Murdord
Made by B. D. E. Bridge Engineer
Checked by Date: Grap 21, 1956



PART PLAN ~ SUPERSTRUCTURE

COLORADO
DEPARTMENT OF HIGHWAYS

PLAN OF EAST HALF OF SUPERSTRUCTURE

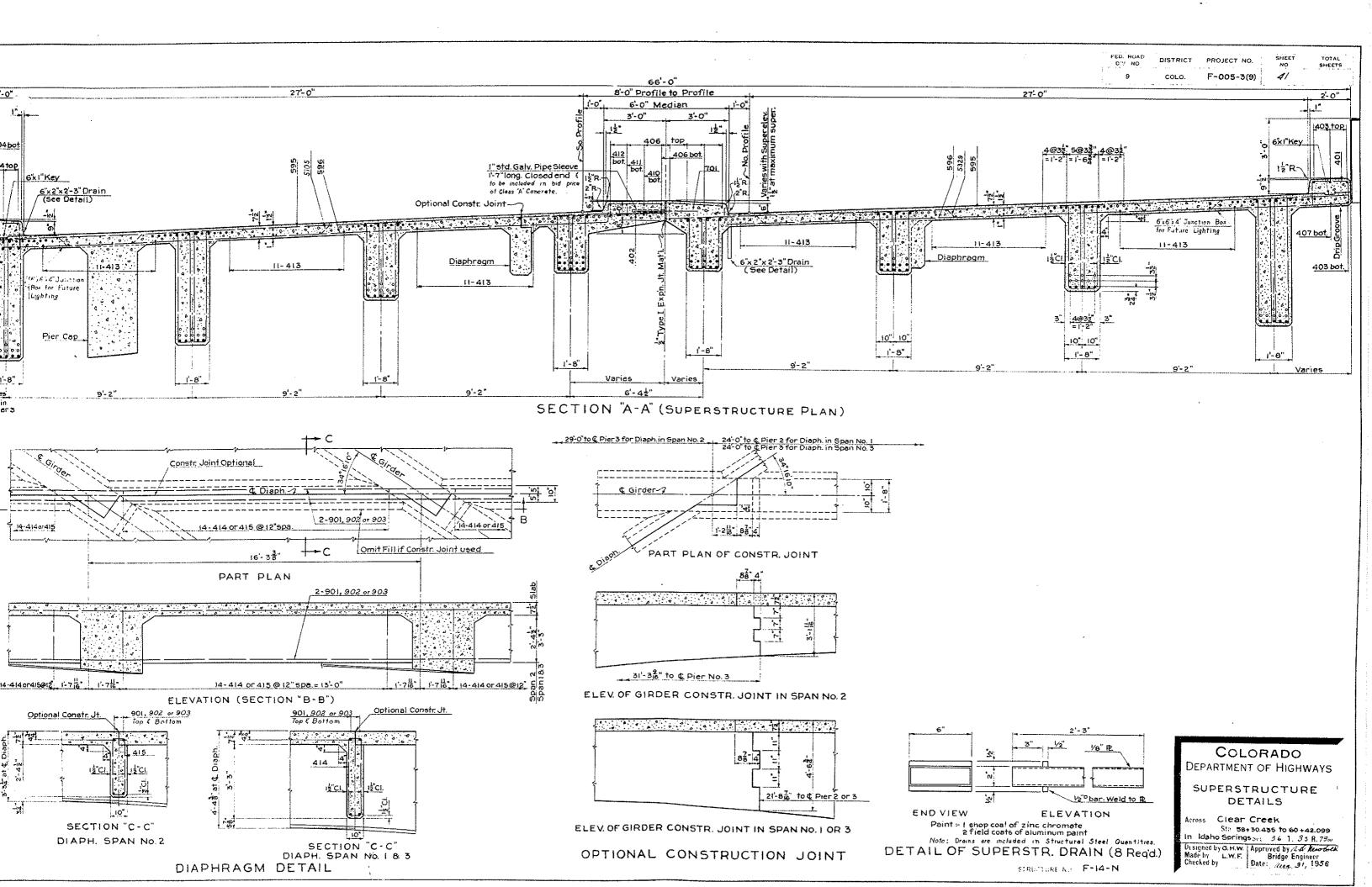
Across Clear Creek
Sta. 58:30:435 to 60:42.099
In Idaho SpringtSec. 36 T. 3.5 R.73.W

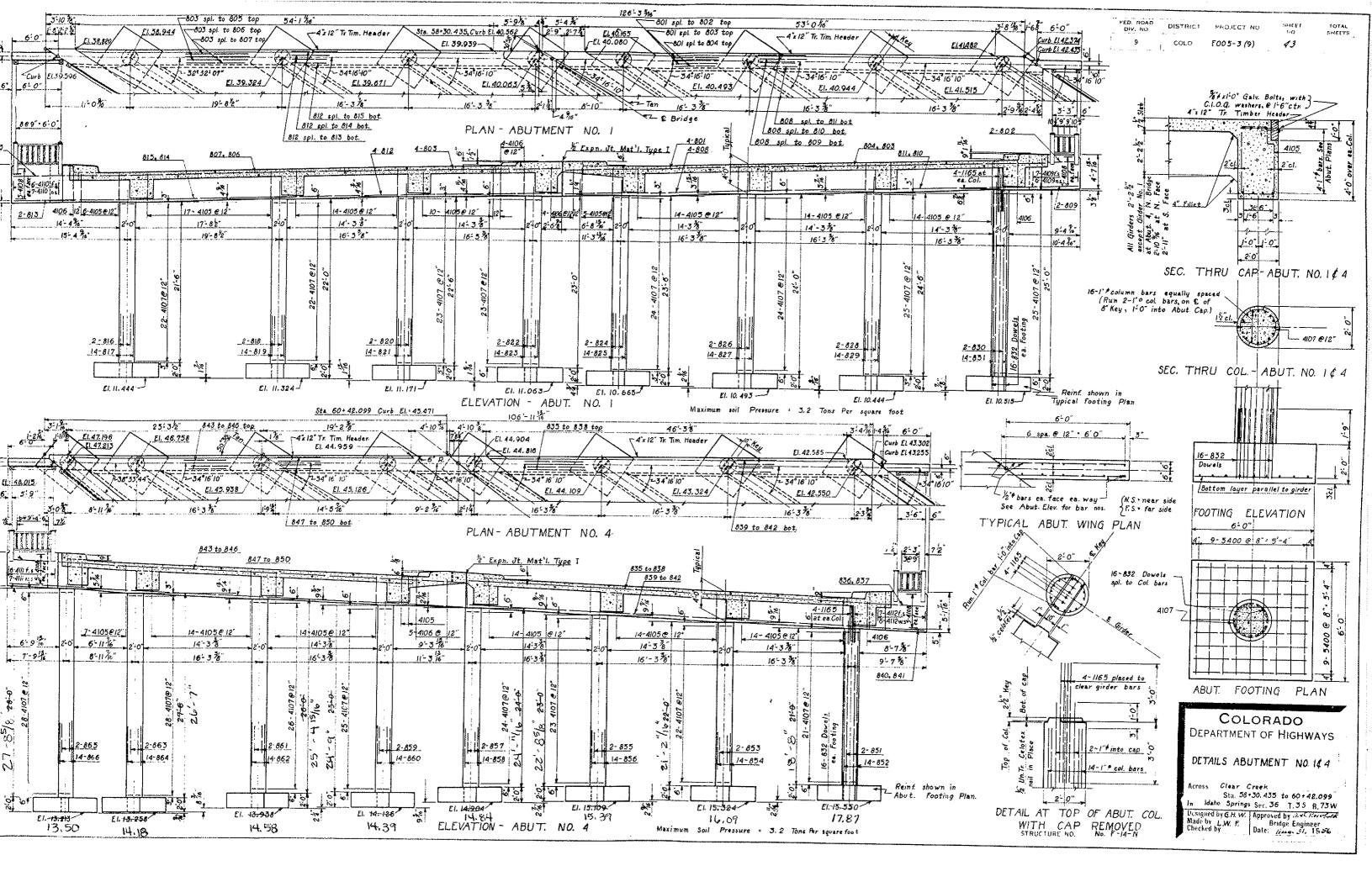
Orsigned by GHW
Made by BDE
Checked by

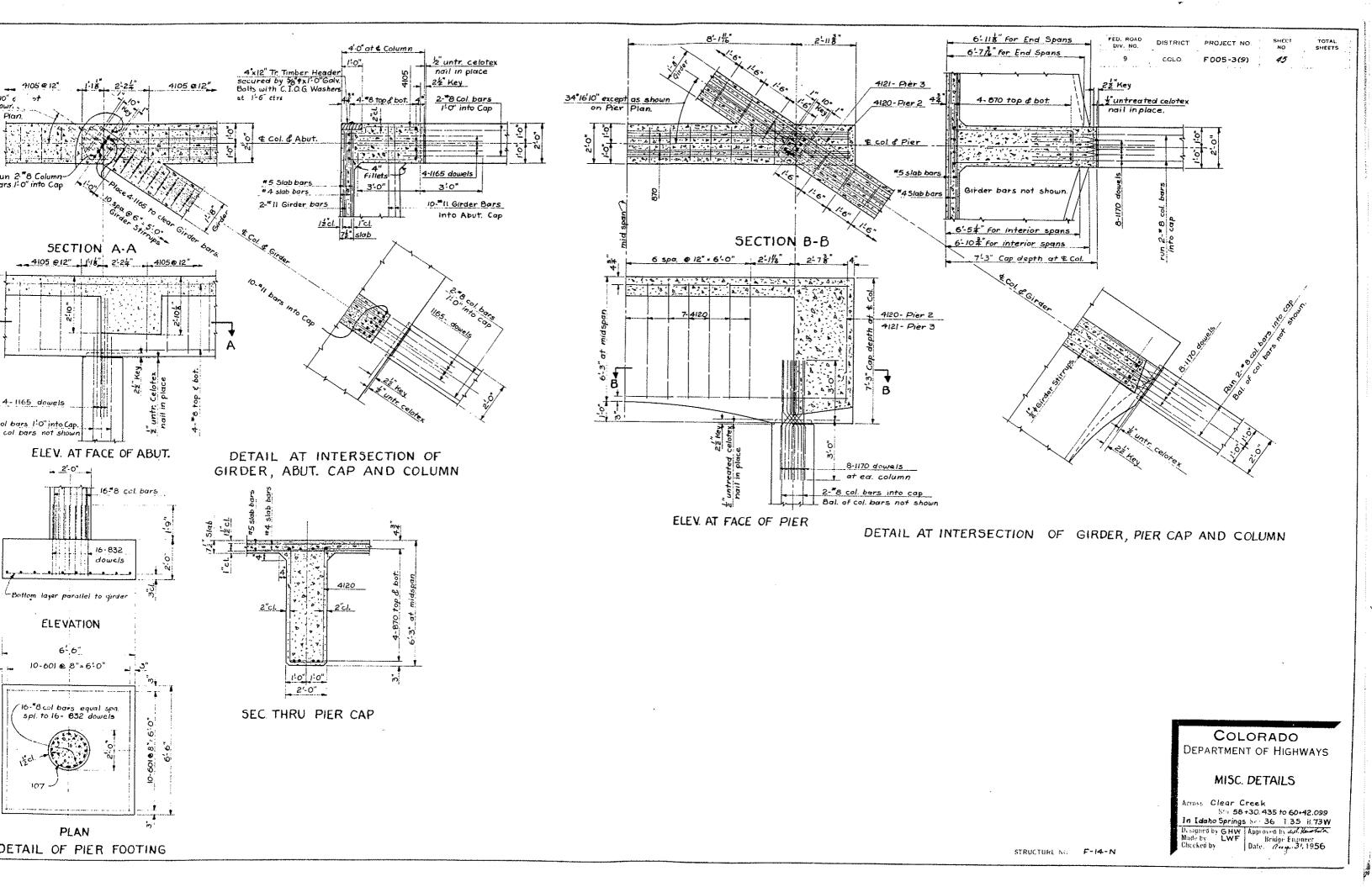
Approved by

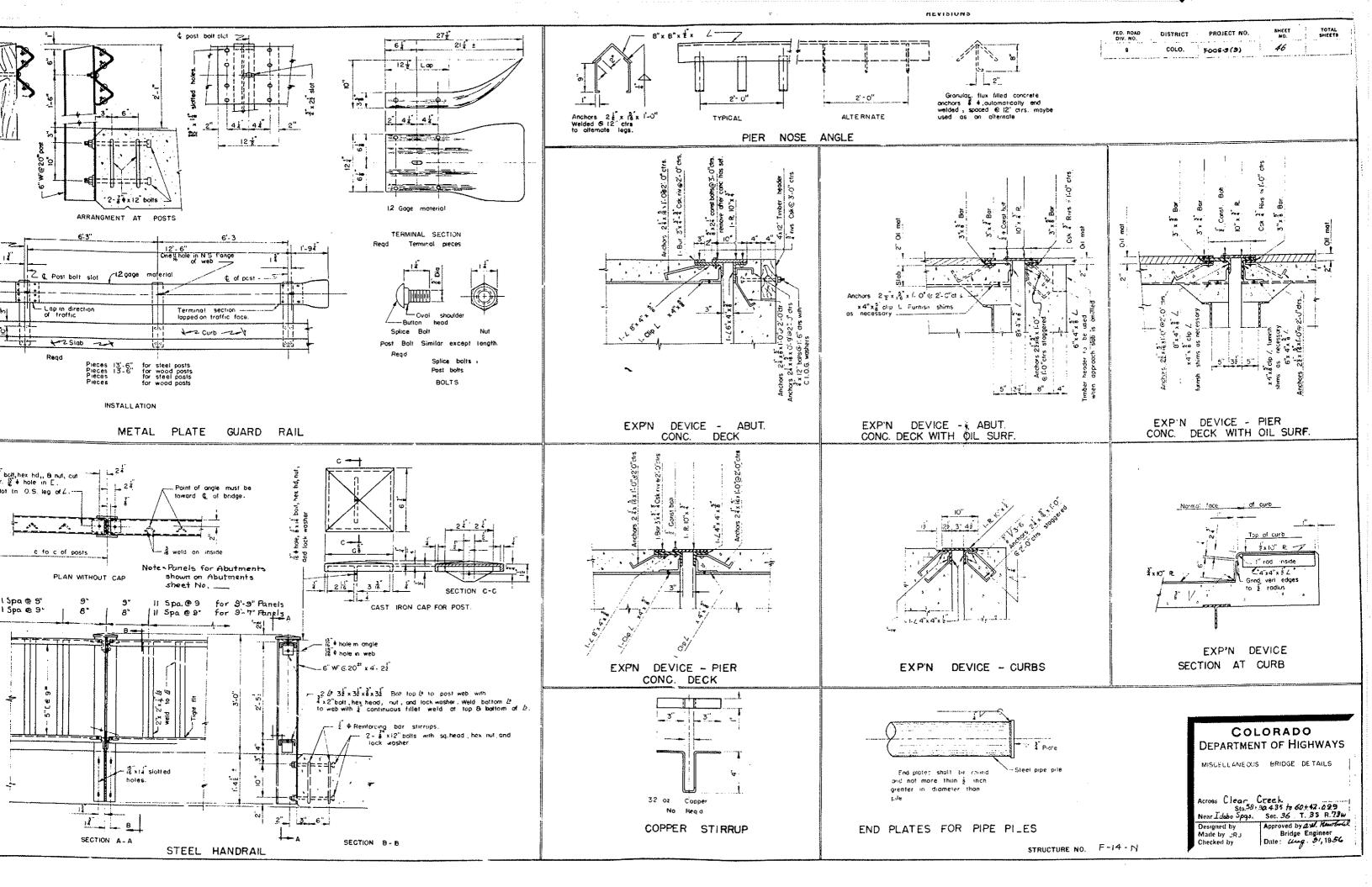
Bridge Engineer
Date: Across

Checked by









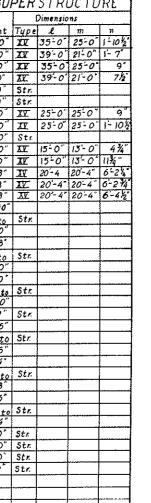
							_
BA	R	LIST	SUR	ERS	TRU	CTUI	7
<b></b>	1	No.	1	T	Dimen		_
Mark	Size		Langht	Туре	1	m	Т
401	1/2	362			1-8"	1-1"	t
402				VII	1 0	<del>                                     </del>	╁
403			34'6"	Str	<del> </del>	ļ	+
	ᆤ	8 04		Str	<del> </del>	ļ	ŀ
404		2	37-3	Str		<u> </u>	1
1	1.6	7	4'-4"	VII	2-8	10	ļ
407			36'-0"	Str.	ļ	ļ	1
		·	31.6.	Str	<u> </u>		Ļ
408			40'-0"	Str	<u> </u>		1
409	12		17-6"	Str	<u> </u>		1
410	12		38-1"	Str.	ļ		l
411	12	9 3	37-11"	Str			L
412	1/2		38'-0"	Str			L
415	1/2"0		J5-9*	Str.	T		Τ
414	1/2"		8-9"	X	3.5 2	7	Γ
415	12.0	100	7-0"	I	2 7	7.	Ţ
420	1/2"	16	15 1 1/4"	II	6 6 %	1-5"	Г
421	1/2"	16	14'-11 14	11	6 5 %	1-5"	Т
422	1/2 1		14-9"	17	6-4	1'- 5"	T
423	12	16	14-5	77	6-2"	1-5	t
424	1/2"		14-44	<u> </u>	6 1 8	1'- 5"	t
425	1/2-1		13-11%	XI	5-11%	1-5	t
426	1/2"		13-10%	XI	5'10%	1-5"	t
427	1/2" 6	16	13-75	II	5'-9%	1-5	t
428	12.1		13:4%	n	5-74	1-5"	╁
429	15.8		13:3 4	XI	5-7/8	1-5	Ļ
430	1/2 8		12-11 2	XI	5'-54"	1-5	+
431	1/2 8	1-1-	12-11	<del></del>	5'-5'	1-5	+
432	1/2 9	1 10	12: 7"	211		1-5"	1
433	150	00	12-3"	XI	5 3 5 1	1- 5	÷
434	13.0	,		XI	5 1	1'-5"	1
			12'- 2%	XI	5'-05°	1'-5"	-
435		<del>,</del>	11'- 11 %	XI	4-11/8	1-5'	Ļ
436	116	<del>,</del>	11-10"	XI.	4'-10 %	1-5"	1
437	1/2. 0	, ,,,	11-7%	277	4-9%	1'5"	<u>!</u>
438	1/2 0	1.0	11-5%	XI	4'-8 8	1'-5"	:_
439	1/2" 0	+	11-44	XI	4' 7 %	1'-5"	L
440	1/2 9	70	11-1%	ZT	4.65	1-5"	Ĺ
441	1/2 8	1	11.0%	II	4-5 %	1-5"	
442	12 8		10-9.2	7.7	4'-4%	1-5"	,
443	1/2 0		10'-6"	λ-	4'-212	1-5-	
444	2 5	16	10-35	XI	4-178	1-5"	-
445	12.0	16	10.24	XI	4'-038	/-5"	Ξ
446	1/2 0	16	10-0%	ΧI	3'-11者	1-5"	<del> </del>
447	120	16	9'-11"	177	5'-11"	1-5"	-
448	1/2 0		9-9%	<u>XI</u>	3-101	155	Η
449	,2 ° 0	16	9-7%	777	3.9%	1-5"	_
450	/2 Ø	16	9:6 1/4	XI	3-8%	1-5"	-
451	120		9-4 1/4				-
45	13 0	16	9-4%	II.	3-7.8	1-5" 1-5"	-
453	10		9-24	<u> 77</u>	3.6%	1-5 1-5"	-
454	12 €	16	9-1%	II.	3.6.8		
455	ķ. 0		9-0%	277			
456	y 0		9-074		3-5%	1-5	_
	2 1 <sub>2</sub> 0	<u> </u>	8-11"	I	<i>3</i> - 5"	1-5	
457 458	72 0	16	8-10 2	XI.	3-4 1/4	1-5	_
459	120		8 8 4	<u> 17</u>	3-3%	1-5	
460	1/2, Q	16 16	8 · 8 ½ · 8 · 7 "		3-3₺	1-5"	
	12.0	_	8-64	<u>X</u>	3:3"	1-5	_
461	12 gt	10	0 - 6 4	<u> 27</u>	3-2%	1-5"	
462	13-0	16	8-54	XI	3-21/8	1'-5"	
463		/6	8-4		3-12	1'-5"	_
464	20		8-34	X	3-13%	1-5	_
16	), Ø	16	8' 2%	XI	3-0%	1-5"	_
466	120	16	8 . 2	XI	3-05	1'-5"	_
67	12. g	16	8 - 1'	XI	3-(	i'-5" i'-5'	
68	200		8-0"	I	2-11-2	1'-5'	_
169	12.0	16	7: 11%"	XI	2-11-8	i~ 5"	_
70	1/2" 0	16	7- 10/2		2-10 %	1-5"	_
17/	1,00	16	7-1014	<b>X</b> 7	2-10%	1-5	_
72	1,00	16	7-9"	$\Pi$	2- 10	1'-5"	_
73	12	16	7-8	II.	2-92	1'-5"	_
74	150	16	7 - 7"	20	2.9	- 5	_
75	4. 0	16	7 6"	II I	2-8%	1-5"	
74	. 6	16	7 6" 7 5 4 ½ 7 4 ½		2 · 8 /4 :	1'-5' 1	
77	50	16	7-43			1'-5"	•
78	, 0	16	7-34		2-7%	1.5	_
75	ô	16	7- 314		2-7%	1'-5"	
80	72° Ø		7: 3		2-7"	1-5	_
<u></u>	1	<u>l.</u>	<u></u>	1	~ /	, J 1	_

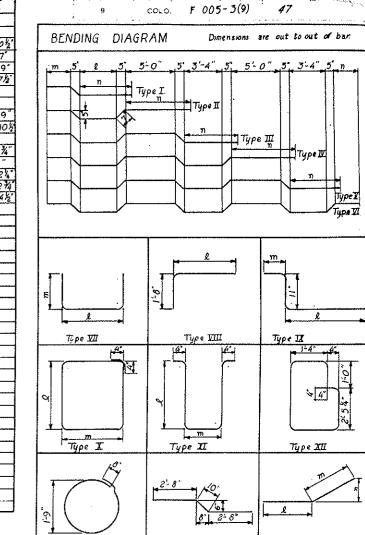
	T	No.	SUF	T		ensions	
Mark	Size	1	Lenght	Type	1	m	n
481	1/2"		7-24		2.6%	1-5"	1
482	15"€	24	7-22	<del>-</del>	2.6%		_
483	12.0		7-6	11	2-10 %		;
484	1/5 9		7-5"	177	2-9-14	1-13	<del></del>
			7-44	_	2-9%	1-12	
485	1/2 /	32					<u> </u>
486	12.5		7-3/2	<b>X</b> I	2-9	1-1%	1
487	12.9	32	7-2 1/4	XI.	2-8%		
488	1/2 5	32	7-24	<b>11</b>	2-878	1-1/2	1
489	1/2 1	32	7-11/4	II.	2-8/8	1-1/2	
490	1/200	32	7-1/4	ZI.	2-7/8	1-1/2	-
491	1/28	32	7- /	T.T.	2-7 1/4	1-1/2	1
492	1/200	-	7-0%			1-16	-
493	1/50	32	7-0/2	II		1-12	<del> </del>
494	1/20	32	7-0 %	27	2.7%	1-11/2	<del></del>
495	12.0	30	7-0	II		1-1/2	<del> </del>
496		60	6-11%	Ī	2. 76	1-1%	<del>                                     </del>
			6-11/2			1-1/2	1-
497	1/2.0	60		777	2-7		
498	1/200		6-11/4	17	2.678	1-1/2	
499	12.0	102	6-11	XI.	2-6 %	1-1%	
	<u> </u>		ļ		1		<u> </u>
					1		
501		<u> </u>	3-10"		2'-2"		
to	38.0	leach		VIII	by 44" to		ļ
513	╅-	<u> </u>	8-1	1	6-5"		
514	1	<del>                                     </del>	2-2"		1	<del> </del>	<del> </del>
	5/- 6	leach	by 81/2 to		<del> </del>	<del></del>	<del></del>
520	10	rech	- '2t	377.	<del> </del>		
520			6'-5"				<del> </del>
521	1	ļ	8-5"	<u> </u>	6-9"		ļ
to	38	leach	by 4 2 to	VIII	by42 to		
5 <i>30</i>			11-9/2	L	10-1%		
531			7-1*				
to	3/8. 4	teacn	by 9" to	Str			
555	7	1	10'-1"				
536	5/8 0	1	10'-8"	I		7-7	2-6
537	5 0	<del></del>	11'- 5"	1		7-4"	3-6
538	5%4		12'-2"	Ī	<del> </del>	7-4	4-3
~~~~					<del> </del>		
539	387		13'- 2"	1	اا	7- 4-	5'-3"
540	3/8 1		13'-8"	П	3-11	7- J	1- 4"
541	30 ₹	ı	14-6	П	4-0	7'- 3"	2-1"
542	38.5	1	15'-2	П	4-0	7-3"	2-9"
543	1/8 \$	ì	16 - 2	Ц	4-0"	7-3	3'-9"
544	5/8 5	ı	16'-9"	II	3'- 11	7'- 2"	4'-6"
545	3/8	ı	17'- 6"	Π	3'-11"	7- 2"	5-3"
546	580	i	18'-2'	II	3-11"	7-1-	6'-0"
547	3/8 0	ī	19-0"	111	3-11	7-0	1- 4"
548	580	ì	19'-11"	m			2- 4"
	5⁄8 ë	· i	20- 7"		3-10	7-0	3-0"
549	5/-			ш			
550	788	1	21'-4"	Ш	3-10	6-11"	3-10
551	3/8 8	į	21-11"	Ш	3-10"	6-10"	4-6"
552	18 0	1	22-6	Ш	4-2"	6-9"	4-10"
553	8 €	ſ	23-9"	IZ		6-9	5-5.
554	1/2 8	1	24-8	IV.	4-2"	6-9	3'-1"
555	5/8 ♦	1	25-1	IV.	4-1"	6-8"	3- B'
556	% ♦	1	25-10	TLY	4-1-	6-8"	4- 5"
557	289	i	26-7*	ΙΫ́		6-8	5-2
558	3/8 ♦	<del>-</del>	27-4	IX.		6-7"	6- 1°
559	5/80	-	28-5	.V	-	6-6"	1- 6"
						~	
560	89		29:0	77.		6-6"	2-3"
561	%,	-!	29-8	<u>v</u>		6-5	3.1
562	389	-	30° 6°	V		6-5	3-11
563	½ °		31-7	И		6-4	1- 2-
564	30	-	32-4"	V/		6-4"	2-0
565	180	1	32:11	VI	3-10	6 - 3	2'- 8"
566		1	11-0"				
to	1/8 0	each	by8% te	5tr.	<del></del>	$\neg$	
591	<u> </u>		29-2 4		-		
592	<del>  </del>		30-3		<del></del> -		~
	\$1.70			- 1	<del></del>		
to	5/8 0		by 8 to	Str.	l.		
594			31'- 7				
595	5/ <sub>2</sub> Ø	182		Str			
596	300	281	33-7	IX	30-0	2-8"	
97	₹, •	8	33'-8"	YI.	3-9 (	5 - 2"	3-7
						_	
98	380	8	33-8"	VI	3-6"	5'-11'	4'-1"

В	4R	LIS	T SU	PEF	RSTR	UC T	URE
		No.		<b>—</b>	Dimensi	1	,
Mark	Size		Lenght	Type	25.70	m	n
3/01	% · 9	<del> </del>	33 8	177	3-4	4-11	5-3
5102	18 9	<u> </u>	33-8	VI	3-4"	4- 7	5-7" 6-0"
5104	18 °		33-8	327	3-4"	3-10	6-4"
5105	-	3	33'-8"	377	3-4"	3- 2"	6-7
5106	1/8 9		32-10	VI	3-4	5-10	3'6"
5107	16 0	1	32-0	¥I	3-4"	5-10	
5108	1/8 9		31-1"	YI.	3-4	5-9	1-10"
5109	3/8"	+	30-2	W	3-4"	5 - 8	1-0"
5/10	38.8	1 .	29-2	17	3-4	5-8	3-11"
5///	76.		28-5	Y.	3-4	5-8	3-2"
5112	18° €	1. '	27-7	Y	3:4"	5-7	1-6"
5114	56.0		26-0	I V	3-4"	5-6"	11"
5115	800		24-11	117	3-4"	5-5	5-6"
5116	80		24-0	IY	3-4	5-5	4-7"
5117	≨. è		32-21	IY	3-4"	5-4	3- 10
51/8	78- 8		22-5"	117	3-4	5-3"	3-2
5119	3/8"		21-5	II	3-4	5-3	2-2"
5120	78 0	1	20-10	IV IV	3-4	5-2"	1- 8"
5121	%° €	1	19'- 11'	IIV TIT	3-4"	5-2"	9" 3'-8°
5123	38.0		18-10	Ш	3'-4"	5'-0"	2'-11"
5124	₹8. 0		17-1-	III	3-4	4-11"	2-1
5125	% ø		16'-2"	m	3'-4"	4-11	1-2
5126	18.0	<del>}                                    </del>	15'- 2"	II	3-4	4-10	5'-10"
5127	% 0	<u>'</u>	14'-4"	П	3'-4"	4'-9"	5'-1"
5128	\$5. P		13'- 6"	П	3'-4"	4-8	4-4"
5129	3/8-0		12'-9"	П	3-4	4-8	3-7"
5130	3%.0		11'- 10"	1	3-4	4-7	2-9"
5131	18.0		10'- 1"	II	3-4	4'-6"	2-0"
5133	18 = 5/8 = 0		9'- 2"	II I	3-4"	4-5	4-3"
5134	1,0	,	31-6	<del> </del>	3.7	7 7	<del>                                     </del>
to	%.0	leach	by 10 14 to	Str	<del>                                     </del>	<b></b>	
5161			8-54				
5162			32-5"		28-10	2-8"	
to	180	leach	by 10%" to	IX	byIC/L		
5189	1		9-44		5-914	2-8"	
5190	50.0	[	8"-0"		<u> </u>		
to	28. b	leach	by 7/2 to	Str.	† <del> </del>		
5198 5199	-	<del></del>	3'-0" 8'-11"	-	5- 4"	2-8	<del> </del>
to	3/6. 0	leach	by 7½" to	125	by 7½ to	2.0	
5207	1	1	3-11"	-	4'	2- 8"	1
5208			4'-7"		2'-11"		
to	% €	leach	by 4½" to	VIII	by 45 to		
5220			9'- 1"		7-5		
5221			3-10"		3"	2-8	
to	%.¢		by 9" to	IX	by 9" to		$oxed{oxed}$
5227	3/8 €	<del>     </del>	8'- 4"	<del></del>	4-9	2-8	
5322 5323	78 Y	1	29 - 5° 30 - 4°	V VI	3-4°	5-6	1-5
5324	1/8" \$		31-1"	VI.	3-4	5-5	2:2.
5325	70 0		32-31	N N	3-4	5-4"	3:5
5326	70 P		32'-10"	ZI.	3-4"	5-4"	4- 0°
5327	% ø	10	33-81	V	3 4	5-2"	5-0
5328	18 €		33'-8°	<b>Y</b> T	3-41	4'- 11	5-3-
5329	1/8 €	55	33'- 8"	VI	3~4°	4-4"	5-10
5330	78.0		33-8"	M	3-4"	4-8	5-6
5331 5332	% 9 % 9	9	33-8" 33-8"	<u>VI</u>	3-4	5-1- 5-6'	5'-1'
5333	78 P		33-8°	<u> 777</u>	3 4"	6:0,	4'-8"
5334	58° P		33'-8'	1/1	3-4"	6-4"	3-10
5335	30.0		33-8	27	3: 2:	3-7	6-9
5336	58.0		33-8-	V	5:10,	3-7	7-7-
5337	38.0	4	33'-8"	VI	2'8"	3-7	7:3"
5338			31-6"				
to	3/0.0		y II <sup>y</sup> to	Str			
5359	5/8/00		13 - 2"				
	5/8″¢ 3⁄5∵¢		32'-9' 31'-8"	<u> </u>	2-5"	3-6	5-8"
5362	3/8 9		30-6	VI VI	2-3	3:6"	5-8 4-7
5363	38 0		29 9	<u>Y</u>	2-3	3-6"	3'-10"
	3/8-€		28-10	並	2 - 2 -	3. 6.	3-0
5365	5/g φ		27-10	VI	2-1"	3'-5'	2: 2

BA	0	LIST	F 9110	FD	TRU	( T)	DF
DA	T T	No.	1 301	Lnu	Dimen		NL
Mark	Size		Lenght	Type	L	m	מ
5366	7.1		27-1	7/1	2.0	3-5	1-6
5367		<del>,                                     </del>	26'-0"	Y	1'-11"	3- 5	4-5
5368		+-	25'-3"	Y	1-11	3'-5"	5-8
				_			
5369	_		23-3	Y	1	3-4"	1-11
5370	Y	+		+		+	1-11
5371	1.0	l	22'-5"	<u> </u>	1'- 8"	3-5"	+
5372			<del> </del>	17/	1-8	3-3	5-10
5373			20-7"	117	1-7	3-3	5-1
5374	1/8"		19'-9'	II	1-6.	3 - 3	4-4
5375	78 9	1	18-10	П	1-5	3 - 2	3-7
5228	3/8	<u> </u>	7. 8.	L	1	<u> </u>	<u> </u>
to	780	} each	by 4% to	Str			
5237			11-05				
5238			8'- 11"	L	5-4"	2'- 8'	1
to	1/8	i each	by 9" to	IX	by 9°to		l
5242			11'- 11"		8'-4"	2-8"	
5243	1-		11'- 8"	I	I		1
to		leach	by 9° to	Str		l	<b>†</b>
5270	1	† <del></del>	31-11	1			<u> </u>
5271	1-	<del> </del>	12-7		9-0	2'-8"	<del> </del>
	%* d	leach	by 9" to	177		15 0	1
to 5208		reach	32-10	IX.	by 9" to	25.00	-
5298	+	<del>                                     </del>			25-3	2-8	1,
5299	<u> </u>		11-6"	I	4	6- 7	4-4
5300	180		12'- 5"	I	3-4	6-7"	1'- 4
5301	1/8 0		13'- 2"	П	3~ 4*	6-6	2-2
5302	38.0		13'-9"	Д	3-4	6'-5"	2'-10
5303		Ì	14'- 6"	I	3'~4"	6'-4"	3'- B
5304	%"	T	15'-4"	I	3'-4"	6-4"	4'- 6'
5305	% 0	1	16'-2"	11	3'- 4"	6'-4"	5-4
5306	%°d		16-11"	п	3'-4"	6'- 3"	6'- 2
5307	5/8°¢		17-9"	ш	3-4	6-2	1-6
-	1/80		18'-6"	-	3'- 4"	6-1"	<del>(</del>
5308			<del></del>	111		0.1	
5309	76"		19'- 1"	Ш	3-4	6-1	2-11
5310	360	1	20'-1"	Ш	3'- 4"	6-1	3 - 11
5311	18.0	1	21-0"	IV	3'~4"	6-0	1'-0
5312	18		21-9"	11/	3-4	6-0"	1-9
5313	%*	1	22'-5"	IV.	3-4"	5'- 11'	2'- 6'
5314	38.0	1	23'-2"	W	3'-4"	5 - 11"	3-3
5315	3/9-0	1	24'-1"	IV	3'-4"	5- 11"	4-2
5316	4,0		24-8	ΙV	3-4"	5-10	4'-10
5317	3% €	1	25'-6"	1172	3-4"	5'-9"	5-9'
5318	<i>3</i> /8 €	i	26'-4"	₹	3'-4"	5'- 8"	<u> 1-1-</u>
5319	58° 8	-	27-2"	¥	3-4"	5-8"	1-11
5320	78 °	-	27-10	¥.	3-4	5-7	2- 8"
5321	78 °	+			3-4		3-6
			28'-8"	X			
5376	3/8° ₽		17-11"	IV	1-5	3'-2"	2'-8'
5377			17'- 1"	IV.	1'-4"	3-2"	1,- 11,
5378			16'-1'	皿	1-3"	3-2"	4'- 11
5379			15 - 0"	皿	1-2"	3 - 2"	3-11
5380	18.0	1	14'- 3"	Ш	1-2	3'-1"	3'- 3
5381			12'- 6"				
to	1/8 8	2 each	by 7 1/4° to	Stx			
5397			2- 2-				
		1					
	┌─┤			-			
	$\vdash \vdash$						ļ
7 <i>C</i> i	7g q.	207	3'-0"	Str.			
	0.	201	~ ~	067.			
	$\vdash \dashv$						
	الليا						ļ
	18 5		48'-0"	Str			
	1/80	4	46-0	Str	}		
903	1/8 9	4	50'-0"	Str			
]		[		T			
		$\neg$					
1101	138	84	60'-0"	Str.			
	1/2	2	60 - 0'		30:0	30'-0	H.
	37.0	2	80-0"		30'-0"	30 0	2'-3
	180	16	34'-0"		00 0	50 0	
21112		<del></del> -		Str		<del></del> -l	
	1780	14	37-01	Str.			
1105	, V-21		35-0	Str			
1105	170	14					
1105	170	7	37.9"	Str.			
1105 1106 1107 1108	180	1 41	37.9" 40-0"	Str.			
1105 1106 1107 1108 1109	170	7	37.9"				

		Na	<u> </u>	] [	Dimensio	ns	
Mark	Size		Lenght	Туре	<del></del>	m	n
1111	130.0	2	60'- 0"	XX	35-0	25-0	1-104
1112	1%		60'-0"	XX	39-0"	2!-0"	1-7
1113	178		60'-0"	XY	35-0	25-0	9,
11[4	1 3/84	2	60'-0"	XV.	39-0	21-0	7/2
1115	1784	64	18-0"	Str.			
1116	178	56	50'- 0"	Str.			
1117	18.0	4	50 - 0	XY.	25-0°	25 0 °	9
1118	1/8 0		50'-0"	XV.	25-0"	25-0"	1-10
1119	130		28'-0"	Str			Ī
1120	180	4	28'-0"	XX	15-0	13'- 0"	4 1/4
1121	1700		28'-0"	IV	15-0"	13'-0"	11%"
1122	1%	70	40'- 8"	XX	20-4	20'-4"	6-24
1123	1/80	5	40- 8"	IV.	20'-4"	20-4	0-21
1124	1/80	5	40'- 8"	ΧV	20'-4"	20-4	6-4
1125	T		43-10"				
to	i 78"	Heach	by 6' to	5tr.			
1129			45'-10"				
1130			46'- 8"				
to	180	l each	by 7 to	Str.			
1134			49'- 0"				
1/35	1		38'-0"				
to	1789	l each	by 5 % to	Str.			
1139			39'-10"				
1140	13"	40	51-0"	Str			
1141			42'-6"				
to	137	14each	by 6"to	Str.			
1145	$\Box$		44'-6"				
1146			45'-4"				
to	13.4	leach	by 7° to	Str.		Î	
1150			47-8				
1151			38'-6"				
to	1300	/each	by 5 1/2 to	Str.			
1155			40'-4"				
1156	1765	16	24'- 0"	Str			
1157	178"4	42	26'- 0"	Str.	-		
1158	1300 1300	4	29'- 0"	Str.			
1159	1369	2	23-0	Str.			
				-			





Type XII

DISTRICT PROJECT NO.

BAR SUMMERY SUPERSTRUCTURE 39970 Lin.ft. ½ ° € 0.668 °/Lin.ft. · 26700 lbs. 35791 Lin.ft. ½ ° € 1.043 °/Lin.ft. · 37330 lbs. 621 Lin.ft. ¾ ° € 2.044 °/Lin.ft. · 1269 lbs. 1536 Linft. 18 @ 3.4 \*/Linft. = 5222 lbs 29173 Linft. 18 @ 5.313 \*/Linft = 154996 lbs. Plus 1% ± Overrum · 2258 lbs. Total = 227,775 lbs.

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Colorado DEPARTMENT OF HIGHWAYS BAR LIST SUPERSTRUCTURE & BENDING DIAGRAM Across Clear Creek
St. 58+30.435 to 60+42.099
In Idaho Springs S. 36 135 R.73 K.

Be separaby
Approx to by A. New Color
Chadr by DISCMEP
Bridge Engineer
Chacked by
Date: Aug. 3/ 1956

Type XX

STRUCTURE NO F-14-N

Туре ЖП