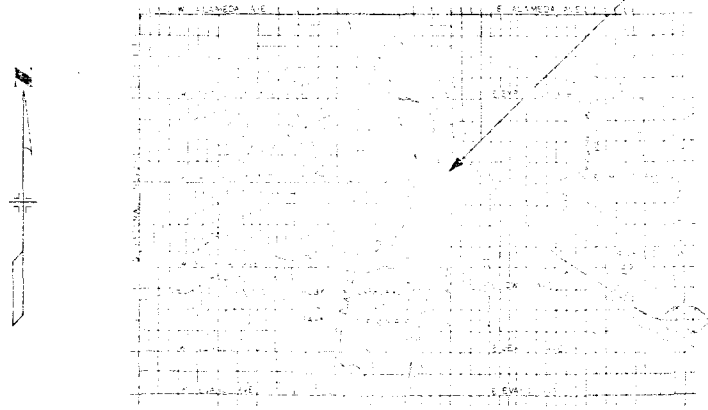


DIVISION OF HIGHWAYS - STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT NO. M1266 (002)

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
DESIGN ENGINEERING DIVISION
PROJECT NO. 80-III-A
RELOCATION OF GATES RUBBER CO. UTILITIES
WEST MISSISSIPPI AVENUE

APPROXIMATE LOCATION
PROJECT NO. M1266(002)
SEE SHEET 2



DENVER
T 4 S., R 65 W. of the 6th PM

VICINITY MAP

SCALE 1" = 100'
1" = 100'

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET, VICINITY MAP, INDEX OF SHEETS
2	SUMMARY OF APPROXIMATE QUANTITIES
3	GENERAL PLAN
4	EXISTING UTILITIES SITE PLAN, STAIR DETAILS
5	GATES RUBBER CO. EXISTING UTILITIES
6	UTILITIES RELOCATION PLAN, CONSTRUCTION SEQUENCE
7	UTILITIES RELOCATION DETAILS
8	UTILITIES RELOCATION SCHEMATIC DIAGRAM
9	WATER METER DETAILS
10	MODIFICATION TO UNITS 10-5 AND 10-6
11	MODIFICATION TO PEDESTRIAN BRIDGE
12	NEW UTILITIES SITE PLAN, GUARD TROUGH DETAILS
13	TEMPORARY VEHICLE CROSSING GENERAL INFORMATION, TYPICAL SECTIONS
14	TEMPORARY VEHICLE CROSSING, PLAN AND PROFILE
15	STANDARD PLANS, LIST - M AND S, STANDARD

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
DESIGN ENGINEERING DIVISION
APPROVED: _____
DATE: _____
BY: _____
TITLE: _____
PROJECT NO.: _____
SHEET NO.: _____
TOTAL SHEETS: _____
NATIONAL PUBLIC WORKS

APPROVED: _____
DATE: _____
BY: _____
TITLE: _____
PROJECT NO.: _____
SHEET NO.: _____
TOTAL SHEETS: _____
NATIONAL PUBLIC WORKS

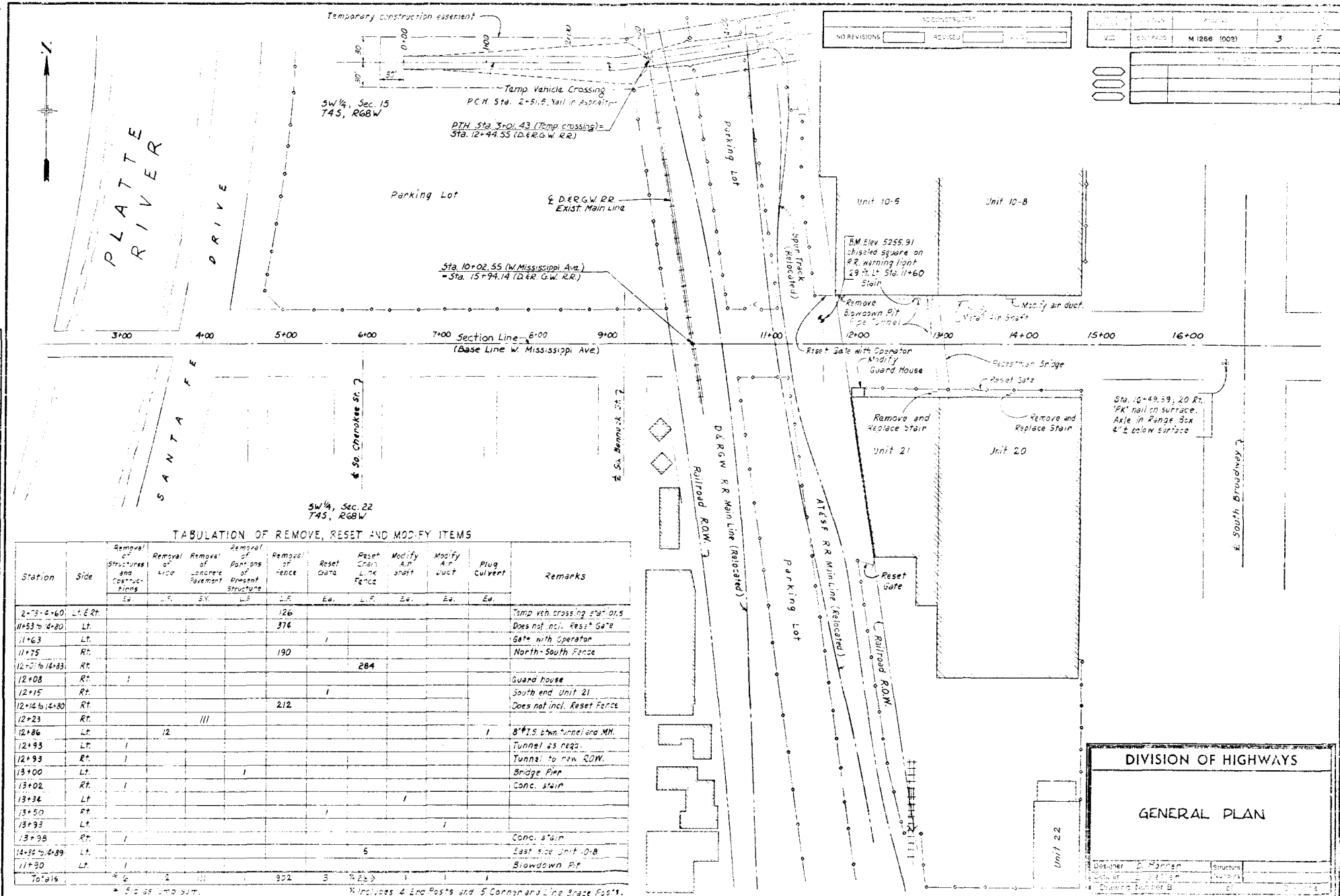


SUMMARY OF APPROXIMATE QUANTITIES

WYOMING

W-288 (202)

LINE	ITEM	UNIT	TEMPORARY VEHICLE CROSSING	GATES RUBBER CO PLANT FACILITIES	UTILITIES	PROJECT TOTALS
202	Removal of Structures and Obstructions	L.S.		1		1
202	Removal of Pipe	Lin. Ft.			12	12
202	Removal of Concrete Pavement	Sq. Yd.		111		111
202	Removal of Asphalt Yat	Sq. Yd.	1165	171		1336
202	Removal of Portions of Present Structure	L.S.		1		1
202	Removal of Fence	Lin. Ft.	26	776		752
203	Plug Culvert	Each			1	1
208	Embankment Material (Complete in Place)	Cu. Yd.	185			185
206	Structure Excavation	Cu. Yd.		39		39
206	Structure Backfill (Class 2)	Cu. Yd.		34		34
210	Reset Gate	Each		3		3
210	Reset Chain Link Fence	Lin. Ft.		289		289
210	Modify Air Shaft	Each		1		1
210	Modify Air Duct	Each		1		1
203	Hot Bituminous Pavement (Patching)	Ton		30		30
208	Hot Bituminous Pavement (Gravel Filling and Asphalt)	Ton	207			207
211	Emulsified Asphalt (CSB-H)	Gal.	39			39
229	Structural Steel	Lb.		4270		4270
201	Concrete Class A (Miscellaneous)	Cu. Yd.		11.3		11.3
201	Concrete Class A (Bridge)	Cu. Yd.		5.2		5.2
202	Reinforcing Steel	Lb.		1516		1516
203	2" Corrugated Steel Pipe	Lin. Ft.	32			32
207	End Post	Each	8	4		12
207	Corner and Line Brace Post	Each		5		5
214	Flagging	Hour				
219	6" Inch Cast Iron Pipe	Lin. Ft.			179	179
219	8" Inch Ductile Iron Pipe	Lin. Ft.			15	15
219	6" Inch Galvanized Pipe (standard)	Lin. Ft.			42	42
219	Industrial Utilities	L.S.			1	1
220	Field Office (Class 1)	Each	1			1
220	Sanitary Facility	Each	1			1
222	Modify Building	Each		1		1
223	6" Inch Water Meter	Each			1	1
226	Mobilization	L.S.	16	2	2	1
227	Pavement Marking Paint	Gal.	3			3
<u>FORCE ACCOUNT</u>						
F401	Minor Contract Revisions	F.A.				1
F402	Recreate Highway Bridge and Install Crossing	L.S.	1			1
F403	Recreate Highway Bridge and Install Crossings	L.S.	1			1
F404	RR Flagging (work by 4th S.H. Co. Forces)	L.S.	1			1
F405	RR Flagging (work by 4th S.H. Co. Forces)	L.S.	1			1
F406	RR Flagging (work by 4th S.H. Co. Forces)	L.S.				1



MODIFY AIR DUCT QUANTITIES			
Item No.	Item	Unit	Quantity
206	Structure Backfill Class 2	Cu.Yd.	4
210	Modify Air Duct	Each	1
601	Concrete Class A (Miscellaneous)	Cu.Yd.	1.5
602	Reinforcing Steel	Lb.	93

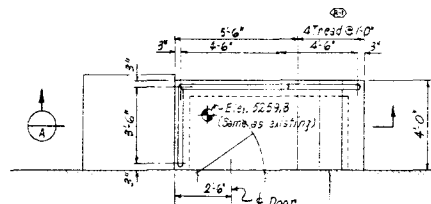
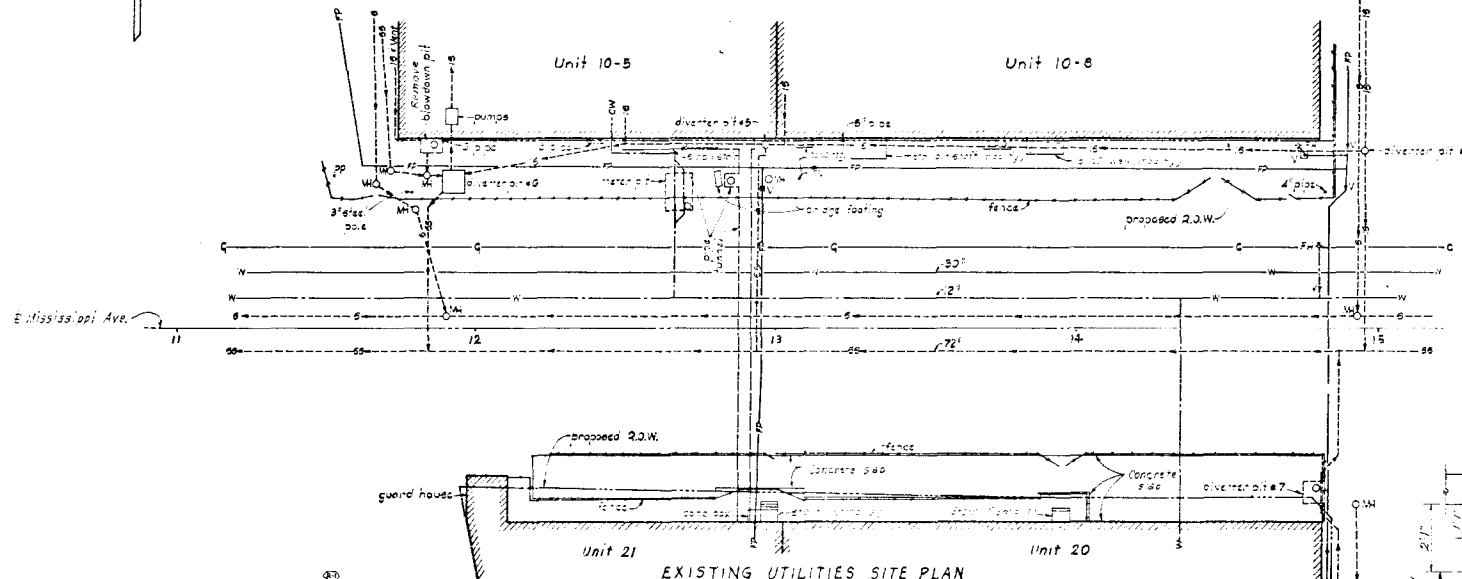
1. This bid item includes the following:
 1. Removal, modification and replacement of ducts and support brackets and removal of concrete wall.
 2. Installation of 12" steel tread plate steel angles and necessary hardware (Approx. 50 lb.)
 3. Provide any miscellaneous accessories required to modify the unit as shown on the drawings or in the specifications.

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

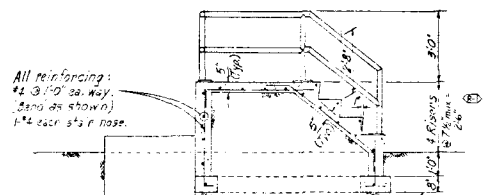
FEDERAL ROAD DIST. NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
211	COLORADO	N 1200 (102)	4	15

STAIR REPLACEMENT QUANTITIES			
Item No.	Item	Unit	Quantity
202	Removal of Structures and Ductwork	L.S.	1
206	Structure Excavation	Cu.Yd.	1
206	Structure Backfill Class 2	Cu.Yd.	1
514	Handrail	Lin.Ft.	23
601	Concrete Class A (Miscellaneous)	Cu.Yd.	4.3
602	Reinforcing Steel	Lb.	247

- * Includes removal of stairs.
 ** Includes cane plates, bolts washers and necessary hardware to install as shown on drawings. Approximately 50 lbs.

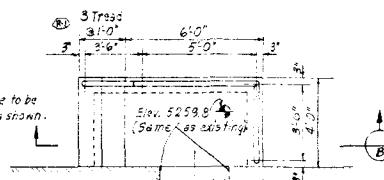


PLAN - NORTH STAIR, UNIT 21

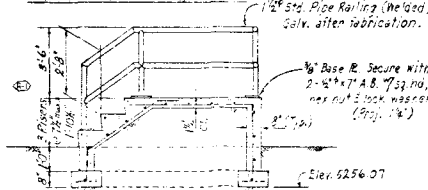


SECTION A

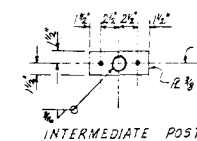
Note: Both exit doors are to be re-hung to swing as shown.



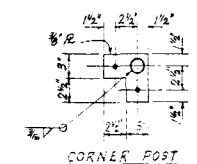
PLAN - NORTH STAIR, UNIT 20



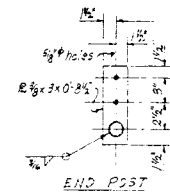
SECTION B



INTERMEDIATE POST

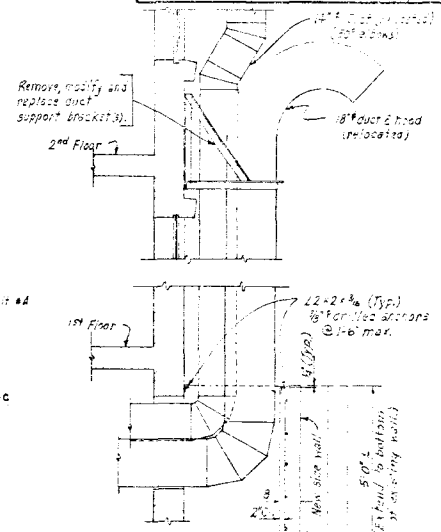


CORNER POST

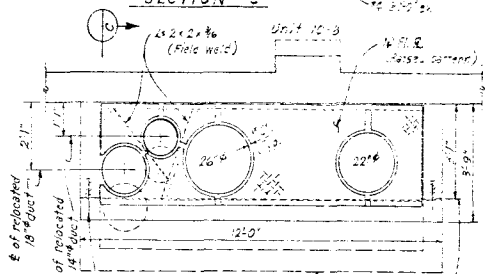


END POST

BASE PLATE DETAILS



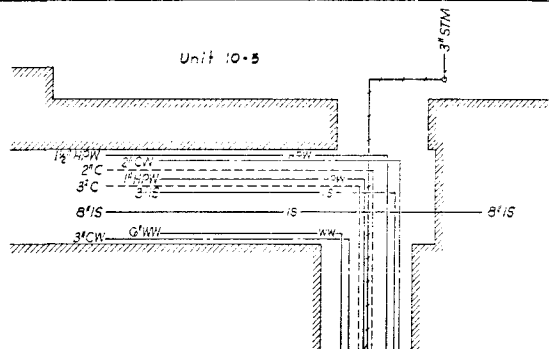
SECTION C



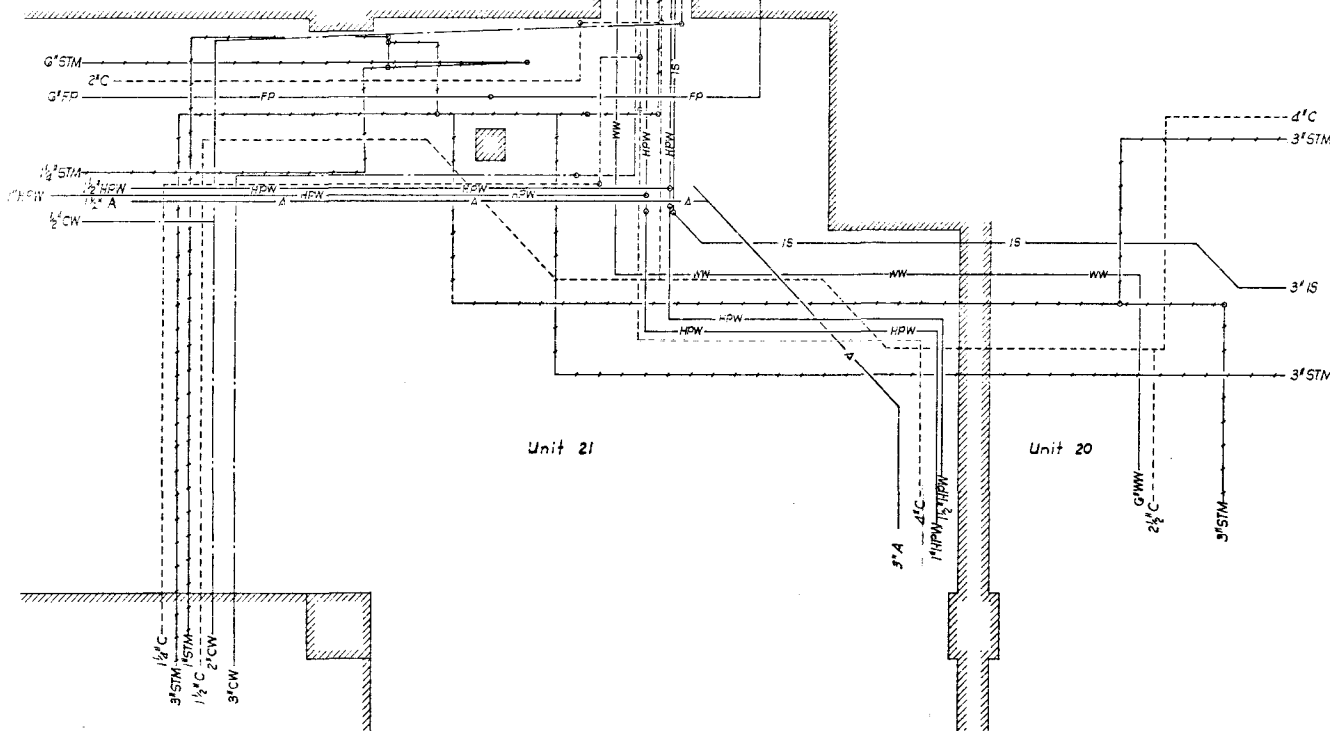
PLAN - DUCT WELL

Field measure size and location of ducts for cutting floor plates. Tack hold plates to angles.

DIVISION OF HIGHWAYS			
EXISTING UTILITIES SITE PLAN STAIR DETAILS			
Designer	L. K. Miller	Structure	
Detailer	D. K. Miller	Numbers	
Drawing Number	B	of	Drawings



Mississippi Ave.



AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

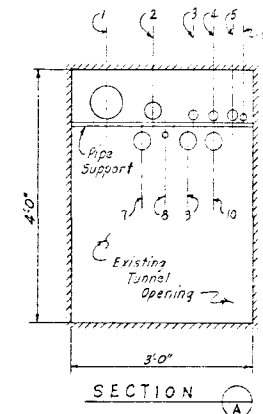
FEDERAL ROAD PROJECT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
XIII	COLORADO	M 1266 (C02)	5	5

REVISIONS	

Existing piping to be removed.

Key

1. Well Water (6")
2. Condensate (2")
3. Condensate (2")
4. 250° HPW (1/2")
5. City Water (2")
6. Electrical Conduit
7. City Water (8")
8. 1400° HPW (1")
9. Steam (3")
10. I.S. (3")

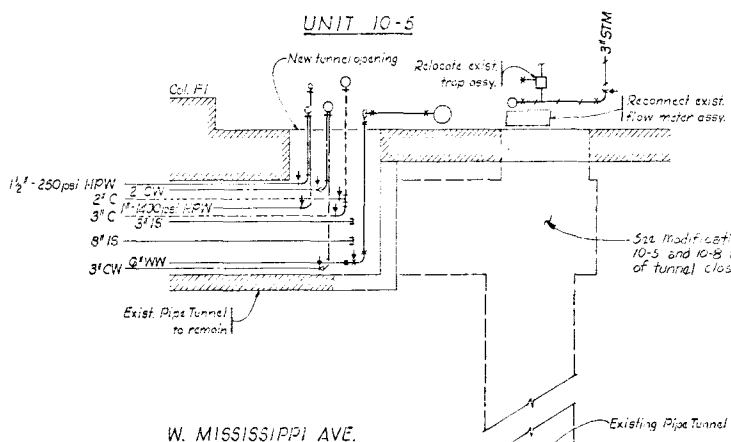


Note: Approximate total length of pipe to be removed is 1,830 lin. ft. to be included in Item 613, Industrial Utilities.

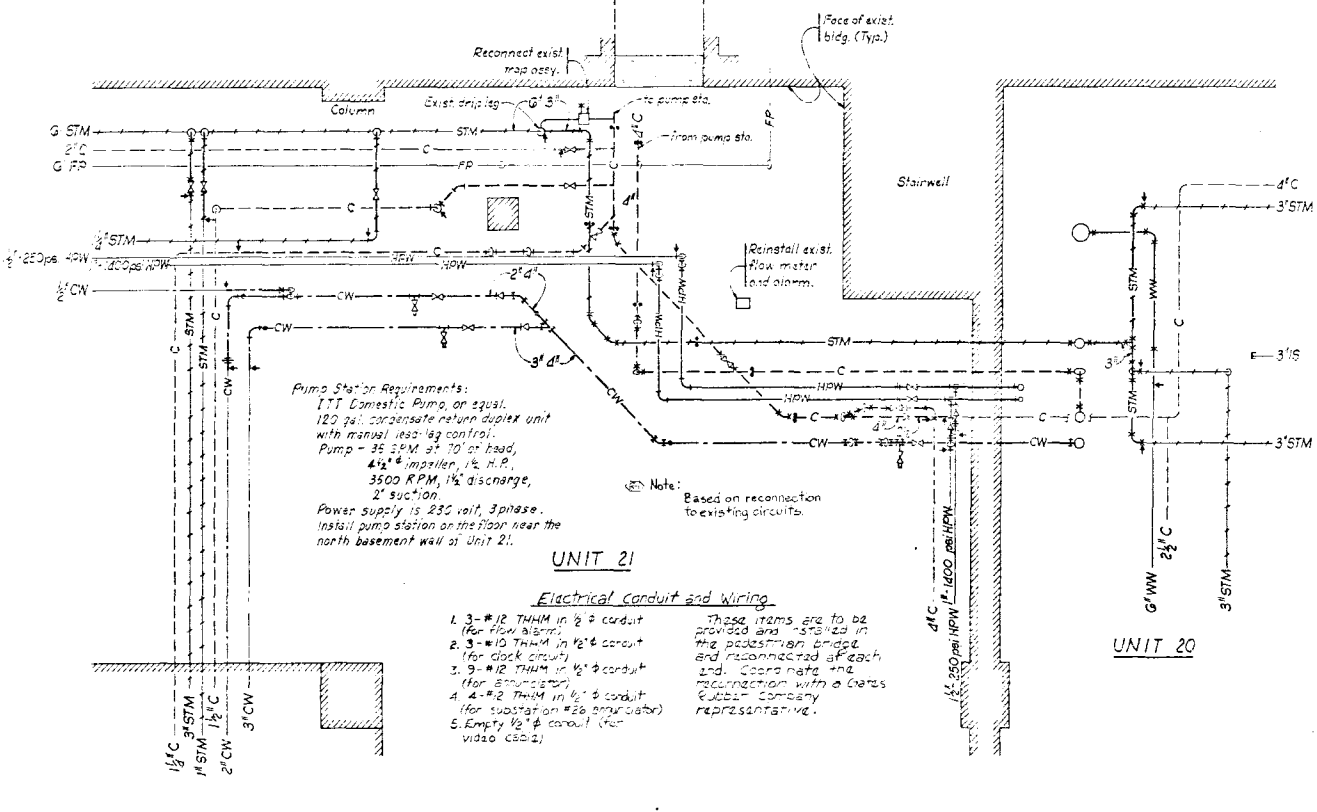
DIVISION OF HIGHWAYS

GATE6 RUBBER CO.
EXISTING UTILITIES LAYOUT

Designer D. W. Smith	Structure Numbers
Detailer E. J. Lee	of
Drawing Number B	Drawings



Existing Pipe Tunnel



1. Weld interior bridge truss modifications.
2. Make new tunnel opening in the basement wall of Unit 10-5.
3. Install new piping and electrical wiring from the basement of Unit 10-5 through the bridge to the basement of Unit 21.
4. Salvage abandoned piping from tunnel.
5. Remove the portion of the old main projects under the west side of the bridge.
6. Excavate the north end of the tunnel and remove enough to expose the section of tunnel to remain close to the existing tunnel opening or construct new bridge.
7. Excavate the south end of the tunnel and remove the tunnel to the proposed operating line.
8. Close the tunnel opening in the basement of Unit 21.
9. See Sheet 2 for schematic plan of piping.

Item No.	Description	Unit	Quantity
* 202	Removal of Structures and Obstructions	L.S.	1
	Plug Solvent	Each	1
202	Removal of Pipe	Lin.Ft.	12
** 019	Industrial Utilities	L.S.	1

- * Bid item includes:
Removal of tunnel at each end as stated in
"Plant Piping Construction Sequence" notes 6
and 7 on this sheet.
Removal of approximately 1330 in. ft. of misc.
pipe as shown on Sheet 5, along with fittings,
valves and gauges. These items removed
shall be re-used where possible.
- ** Bid item includes piping quantities in the
following table.

Description	Length (Inch. fittings) Lins. ft.	Valves Each
5" Wd. Water Fill Line (W.W.)	73	
3" Low Pressure Steam (STM)	211	2
1 1/2" Low Pressure Steam (STM)	6	1
1" Low Pressure Steam (STM)	5	1
1 1/2" - 250 ps. High Pressure Water (H.P.W.)	201	3
1" - 1400 ps. High Pressure Water (H.P.W.)	205	3
4" Condensate (C)	240	6
2 1/2" Condensate (C)	2	
2" Condensate (C)	3	1
1 1/2" Condensate (C)	10	1
1" Condensate (C)	20	1
4" City Water (C.W.)	215	3
3" City Water (C.W.)	14	2
2" City Water (C.W.)	15	2
1 1/2" City Water (C.W.)	3	

	Industrial Sewer
	Fire Protection
	City Water
	Wastewater
	High Pressure Water
	Gate Valve
	Concentric Reducer
	Insect Gate Valve
	Union
	Pipe Turning Down
	Pipe Raising Up
	Pipe Raising Up
	Pipe Cap
	Threaded Fitting
	Victaulic Fitting
	Welded Fitting

existing pipe new or modified pipe
A B

Pipe Hangers

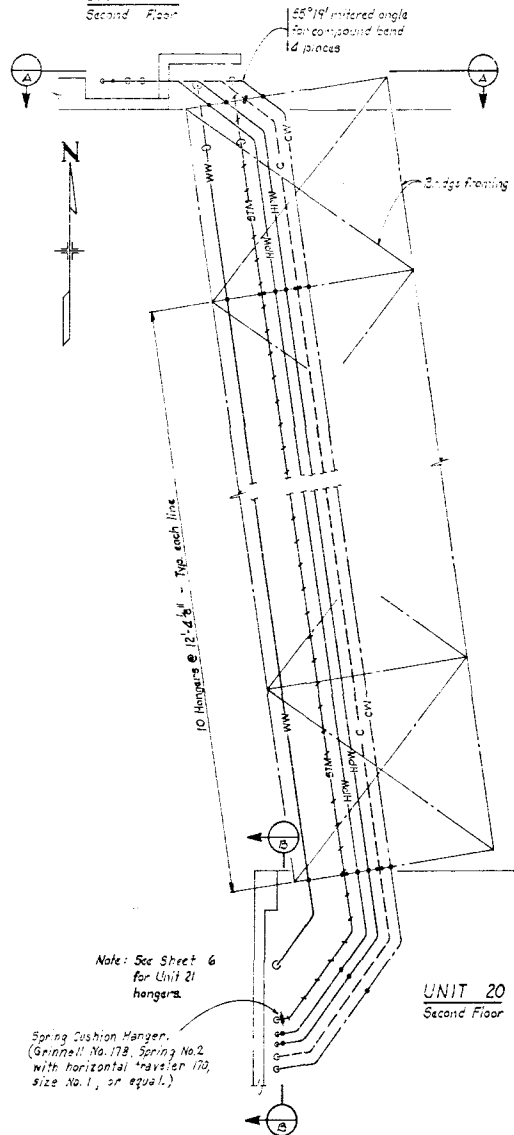
- Grinnell 22 Universal
- Grinnell 8 Universal
- See Grinnell Co.
- Grinnell 22 Universal

1. Provide 1" concrete anchors for bar rods, wall plates, & bar fittings, installation and miscellaneous accessories as required to install and support all pipe in accordance with the Drawings. Space fittings in accordance with good practice.
2. Enlarge existing openings in walls of units 20 and 21.
3. Make new turnoff opening in basement wall of Unit 10-5.
4. Install Pump Station as shown in drawings.
5. Provide and install Electrical, Cable, and Wiring, See Notes on this sheet.
6. Remove the 12" x 15, south of Unit 10-5 between the pipe tunnel and the machine, plug the 21" of this wall opening.

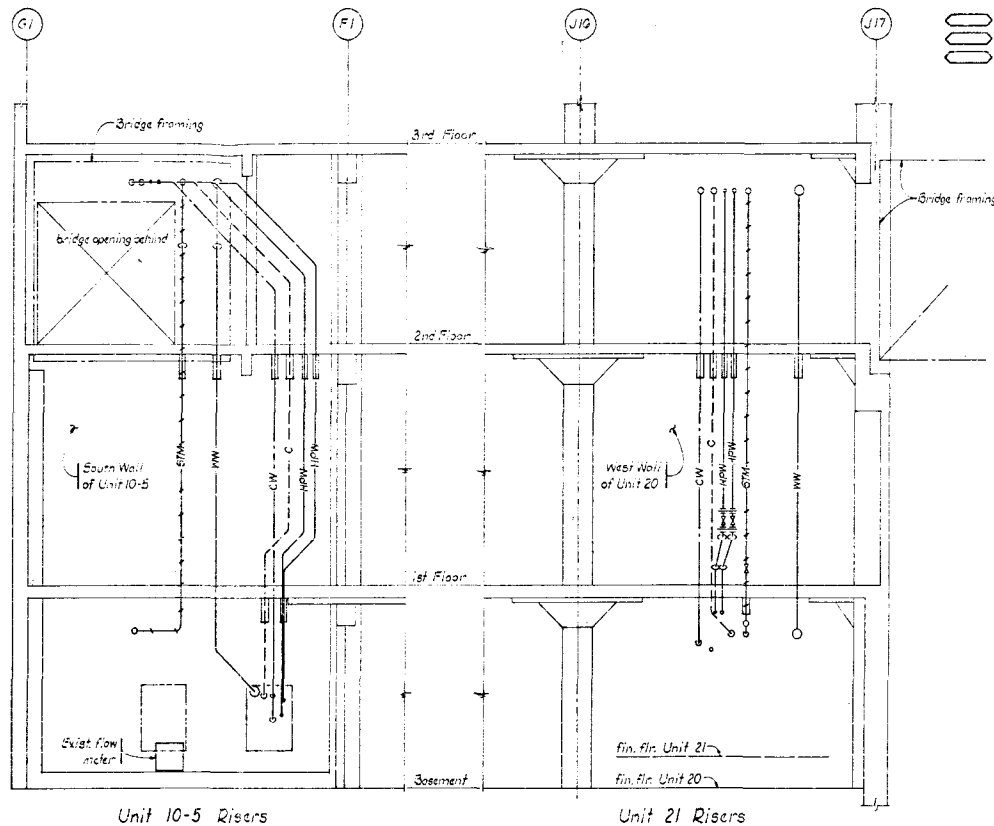
UTILITIES RELOCATION PLAN,
CONSTRUCTION SEQUENCE

Designer	G. Bonner	Structure	
Detailer	G. Bonner	Numbers	
Drawing Number B		of Drawings	

UNIT 10-5
Second Floor



PLAN



SECTION

SECTION

AS CONSTRUCTED
NO REVISIONS ☐ REVISED ☐ VOID ☐

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	M 1266 (002)	7	15

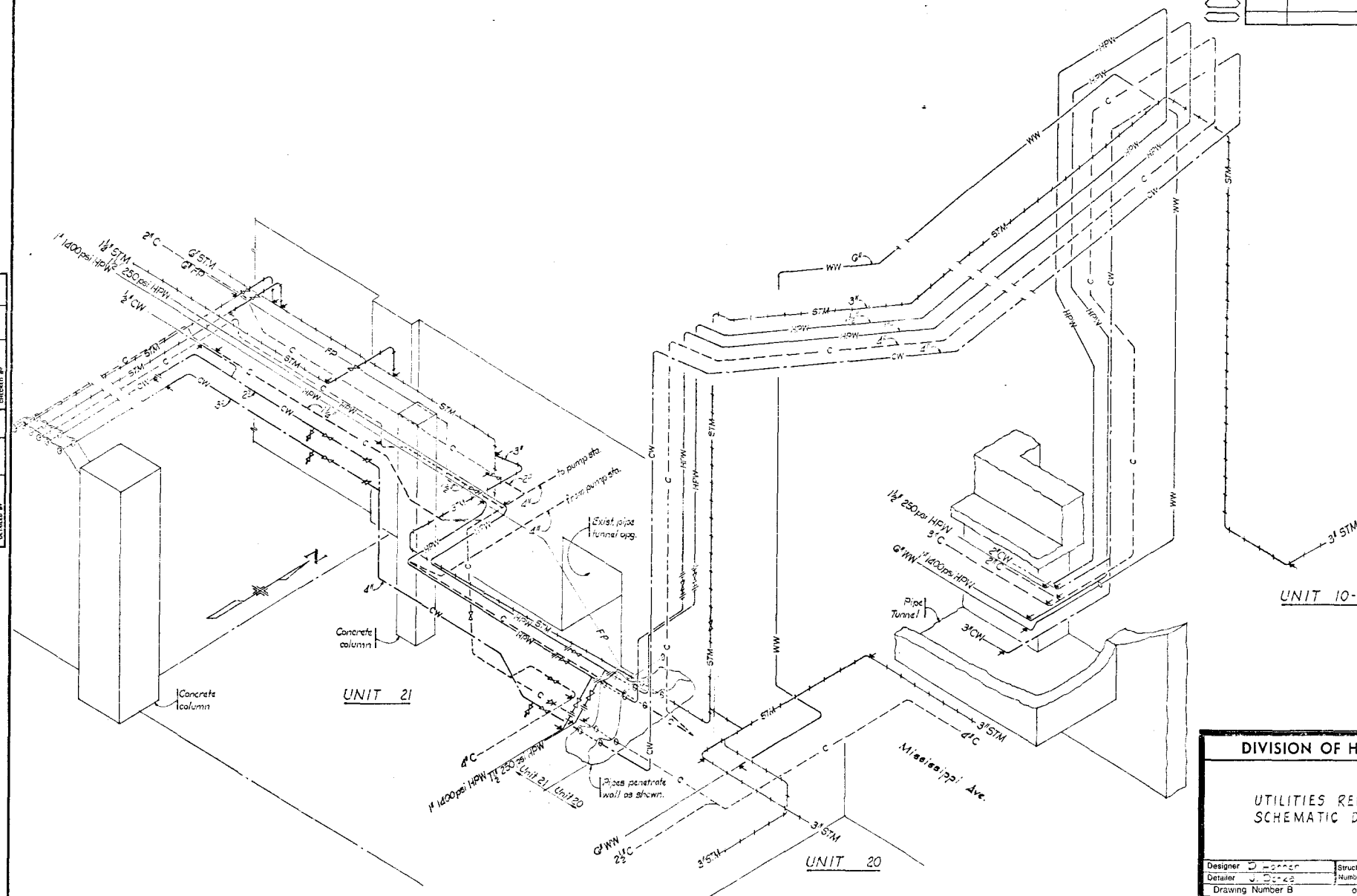
REVISIONS	
NO.	DESCRIPTION

DIVISION OF HIGHWAYS

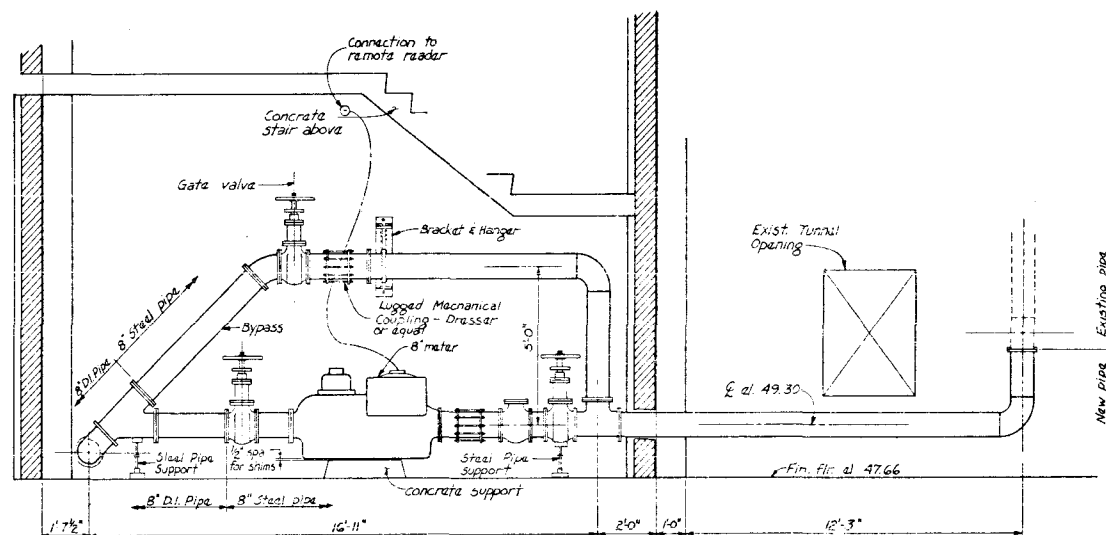
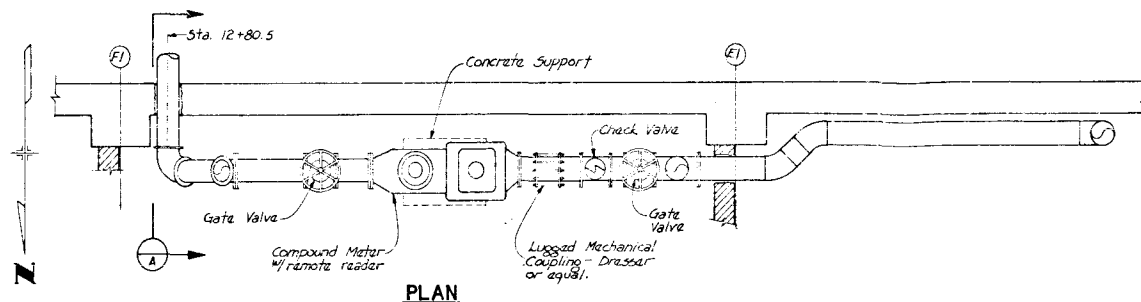
UTILITIES RELOCATION DETAILS

Designer	Structure
Detailer	Numbers
Drawing Number B	of Drawings

REVISIONS	



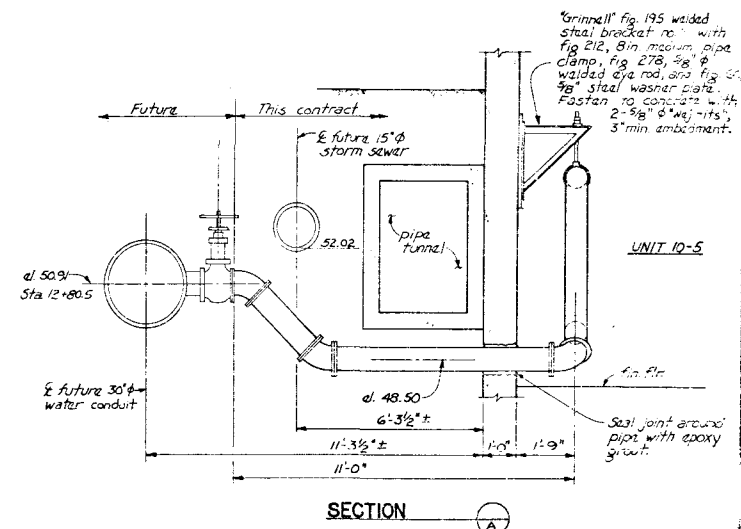
DIVISION OF HIGHWAYS			
UTILITIES RELOCATION SCHEMATIC DIAGRAM			
Designer	J. H. H. H.	Structure	
Detailer	J. H. H. H.	Numbers	
Drawing Number B		of Drawings	



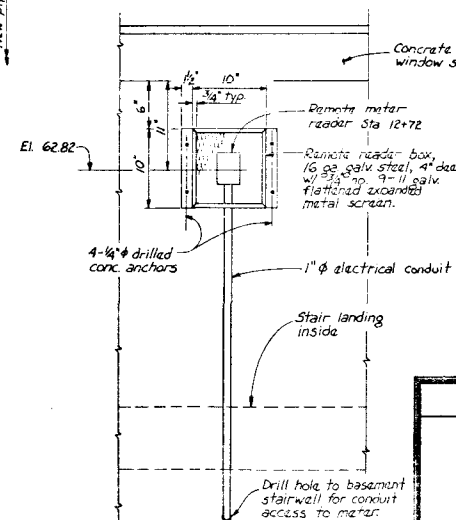
ELEVATION

WATER METER QUANTITIES			
Item No.	Item	Unit	Quantity
* 619	8" Inch Duct's Iron Pipe	Lin. Ft.	15
* 619	8" Inch Galvanized Pipe (Standard)	Lin. Ft.	42
** 623	8" Inch Water Meter	Each	1

* Water lines include all fittings, gate valves, Dresser couplings, pipe hangers and supports, and holes thru walls sealed with epoxy grout.
 ** Includes concrete support block, necessary valves and fittings and remote meter reader with electrical conduit and accessories as shown on the Drawings.



SECTION



REMOTE METER READER INSTALLATION DETAIL

DIVISION OF HIGHWAYS

WATER METER DETAILS

William D. Horner	Structure
D. Dougherty	Numbers
William D. Horner	Structure
D. Dougherty	Numbers



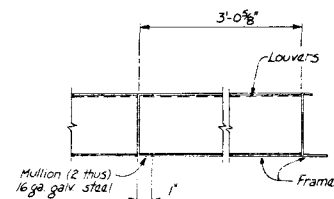
12+50

13+00

 $13 + 50$ $A + \infty$

UNIT 10-5

UNIT 10-8

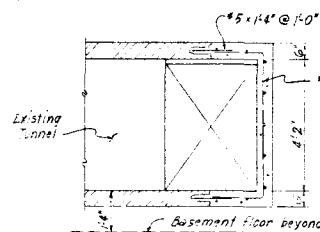


SECTION

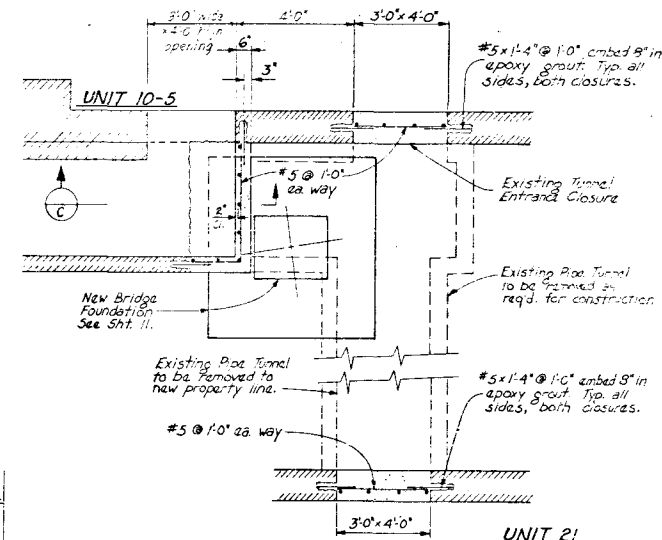
MODIFY AIR SHAFT QUANTITIES			
Item No.	Item	Unit	Quantity
206	Structure Backfill (Class 2)	Cu.Yd.	7
* 210	Modify Air Shaft	Each	1
601	Concrete Class A Miscellaneous)	Cu.Yd.	3.8
602	Reinforcing Steel	Lb.	276

* This bid item includes the following:

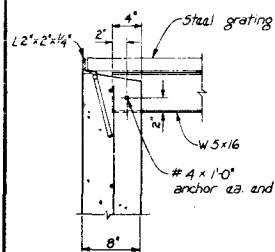
1. Removal of portions of existing unit.
2. Installation of floor drain with grate.
3. Steel grating, steel angles and welds assem. Approx. 5.0 lbs.
4. Duct Insulin.
5. Any miscellaneous accessor as required to modify the Unit as shown on the Drawings and in the specifications.



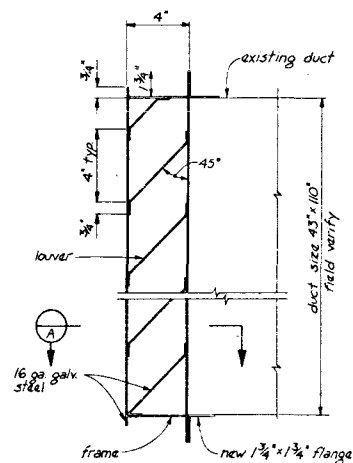
SECTION



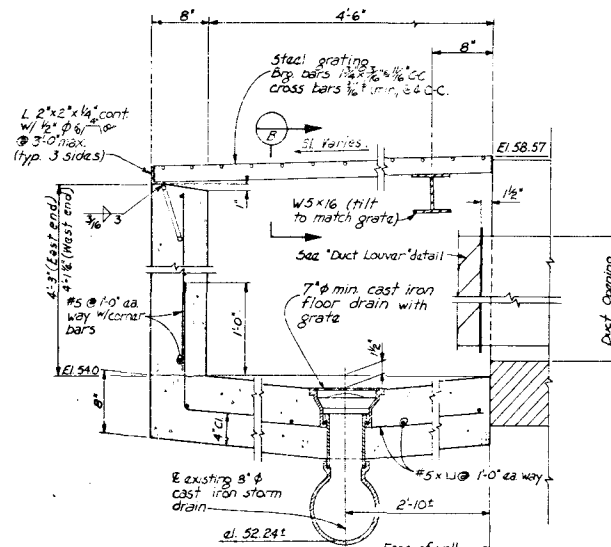
TUNNEL CLOSURES



SECTION



DUCT LOUVER

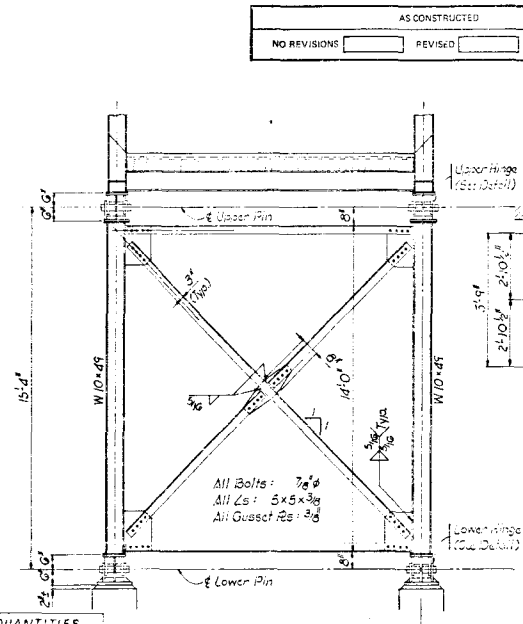


AIR INTAKE WELL

DIVISION OF HIGHWAYS

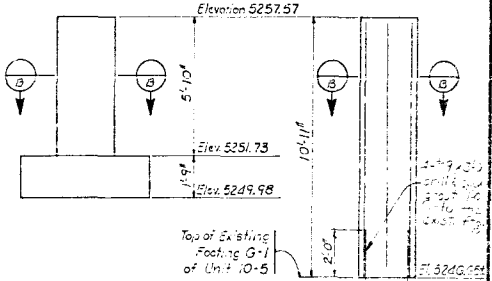
MODIFICATIONS TO
UNITS 10-5 AND 10-8

Designer <i>D Horner</i>	Structure	
Owner <i>D Dougherty</i>	Number	
Drawing Number <i>3</i>	of	<i>7</i> Sheets

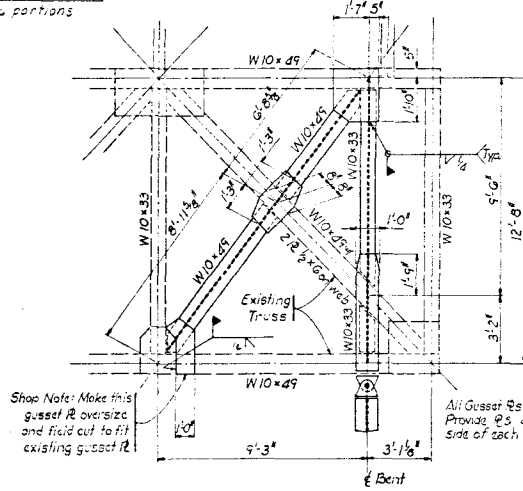


FEDERAL ROAD REG. NO. 1	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	M 1266 (002)	11	15

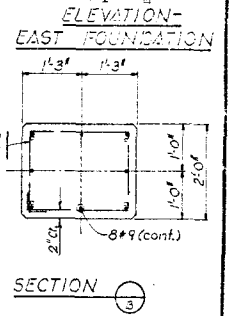
REVISIONS	



BENT DETAIL



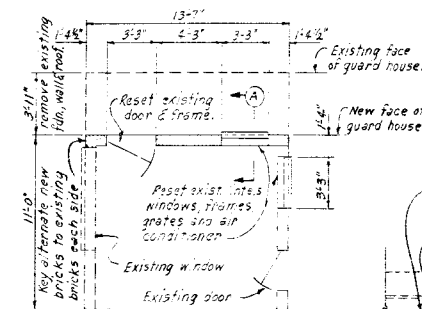
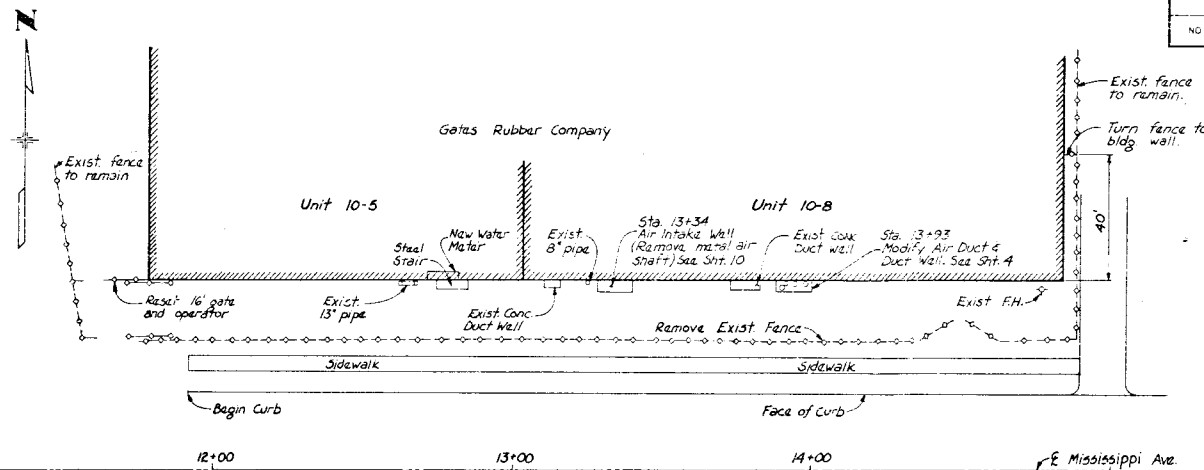
TRUSS MODIFICATION



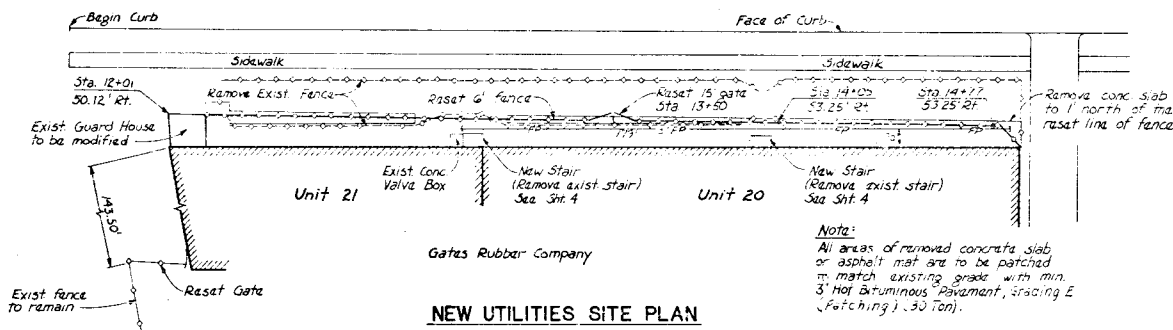
DIVISION OF HIGHWAYS	
MISSISSIPPI AVENUE GRADE SEPARATION	
MODIFICATIONS TO PEDESTRIAN BRIDGE	
Designer <u>M. K. Olson</u>	Structure <u> </u>
Detainer <u> </u>	Numbers <u> </u>
Drawing Number <u>B</u>	of <u> </u> Drawings

NO. REVISIONS	REVISION	DATE

DATE	BY	CHKD BY	APP'D BY



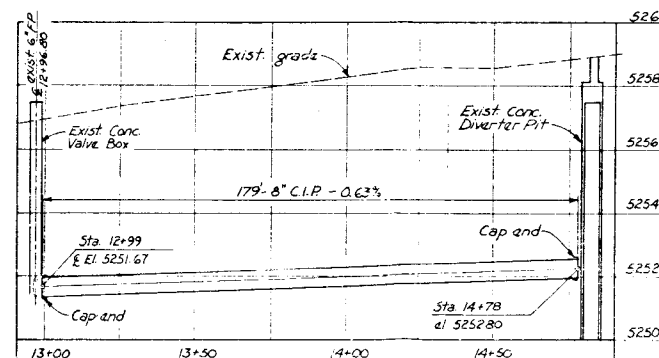
Unit 21
PLAN



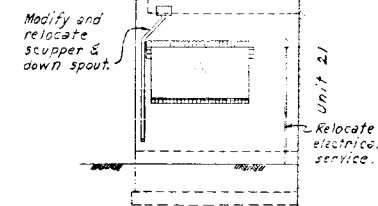
NEW UTILITIES SITE PLAN

* GUARD HOUSE QUANTITIES			
Item No.	Item	Unit	Quantity
202	Removal of Portions of Present Structure	Ea.	1
210	Rebuild Portion of Present Structure	Ea.	1
601	Concrete, Class A (Miscellaneous)	Cu.Yd.	4.8
602	Reinforcing Steel	Lb.	86

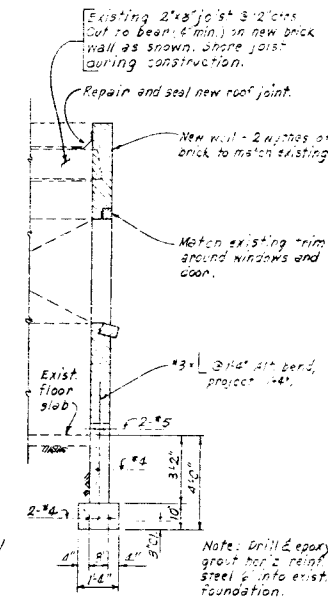
* For information only. The work of this item, as shown on the Plans or in the Specifications shall not be paid for separately but shall be included in Item 622, Guard house Modification.



PROFILE - 6" FIRE PROTECTION LINE (FP)



WEST ELEVATION



SECTION A

GUARD HOUSE MODIFICATION

DIVISION OF HIGHWAYS

NEW UTILITIES SITE PLAN GUARD HOUSE DETAILS

Designer: D. H. H. H.	Checker: D. H. H. H.
Drawn by: D. H. H. H.	Checked by: D. H. H. H.

AS COMPLETED	
NO REVISIONS	REVISED

PROJECT NO.	M 286 (202)	13	15
DATE			
BY			
CHECKED BY			

GENERAL NOTES

For preliminary plan quantities of Bituminous Materials, the following rates of application were used:

Tack Coat Diluted Emulsified Asphalt CSS-1H @ 0.1 Gals. per Sq. Yd.
Hot Bituminous Pavement (Grading E) @ 10 Lbs. per Sq. Yd. per Inch.

Diluted Emulsified Asphalt for Tack Coat shall consist of 1 part Emulsified Asphalt and 1 part water.

Rates of application shall be as determined by Engineer at the time of application.

Water shall be used as a dust palliative where required. Locations shall be as ordered.

The following shall be furnished with each bituminous paver:

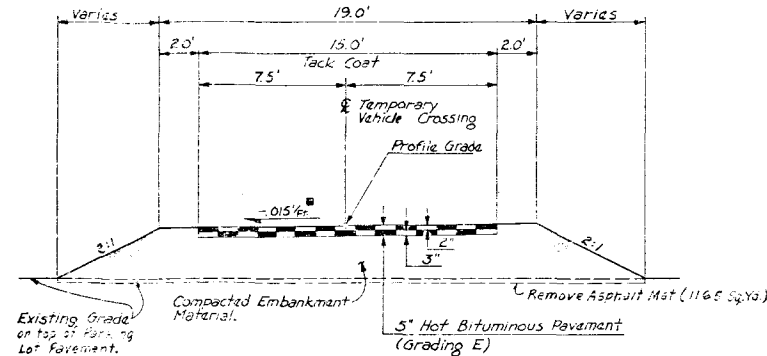
1. A ski type device at least 30 feet in length.
2. Short ski or shoe.

Any layer of bituminous pavement that is to have a succeeding layer placed thereon shall be completed full width before succeeding layer is placed.

All compaction shall be AASHTO T99.

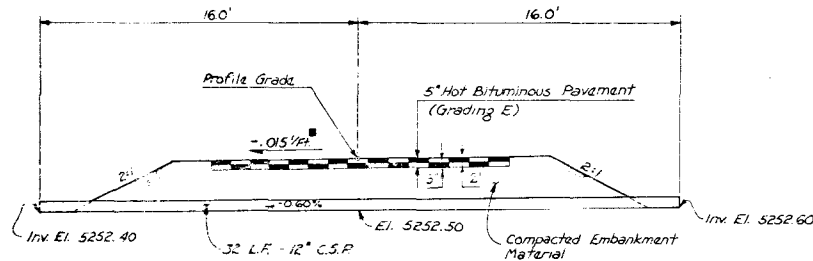
Depth of Moisture-Density control for this project shall be as follows:

Full depth of all embankments.
Bases of cuts and fills to 6" depth.



TYPICAL SECTION

*Nominal Roadway cross slope. Provide 50' transitions at Railroad crossings to match track grade.



SECTION AT STA. 3+47.43

PAVEMENT DESIGN CRITERIA

5" Thick Pavement	
18k EDLA	5
Regional Factor	1.5
Serviceability Index	2.5
R-Value of Subgrade	10

STRENGTH COEFFICIENTS

5" Thick Pavement	
Hot Bituminous Pavement	0.44
WSN	2.26

TABULATION OF PAVEMENT MARKING

Station	Location	Edge Line Yellow Solid 4 inch
0+00 to 4+67	Temporary Vehicle Crossing	890 Lin. Ft. or 3 gal.

TABULATION OF END POSTS (REQ'D)

Station	Number/Side		Total
	Lt.	Rt.	
2+73	1	1	2
3+50	1	1	2
4+14	1	1	2
4+60	1	1	2
			8

TABULATION OF FENCE REMOVAL

Station	Length/Side		Total
	Rt.	Lt.	
2+73	24'	24'	48
3+50	14'	14'	28
4+14	14'	14'	28
4+60	11'	11'	22
			126

*Approximate Quantities. Remove to nearest line post, remove line post and replace with end post and hardware.

SUMMARY OF EARTHWORK

Unclassified Excavation	
From Cross Sections - Roadway	10 Cu. Yd.
Embankment Material (C.I.P.)	
From Cross Sections - Roadway	785 Cu. Yd.
Embankment x Factor (1.15)	903 Cu. Yd.
Borrow	893 Cu. Yd.
Compaction (AASHTO T99)	
Embankment (Net)	785 Cu. Yd.
Bases of Cuts and Fills	100 Cu. Yd.
Total	885 Cu. Yd.
Watering	35 M. Gal.

Note: Minimum R value shall be 10.

*For information only - not a pay item.

TABULATION OF SURFACING QUANTITIES

Station to Station	Hot Bituminous Pavement Grading E-Tars			Tack Coat
	5" Thick Pavement		Gal.	
	Bottom Layer	Top Layer		
	3"	2"		
0+00.00 to 2+97.43	82	55	25	
3+05.43 to 4+33.75	35	24	11	
4+41.75 to 4+47.45	2	1	1	
4+55.55 to 4+67.05	5	3	2	
Project Totals	124	83	39	

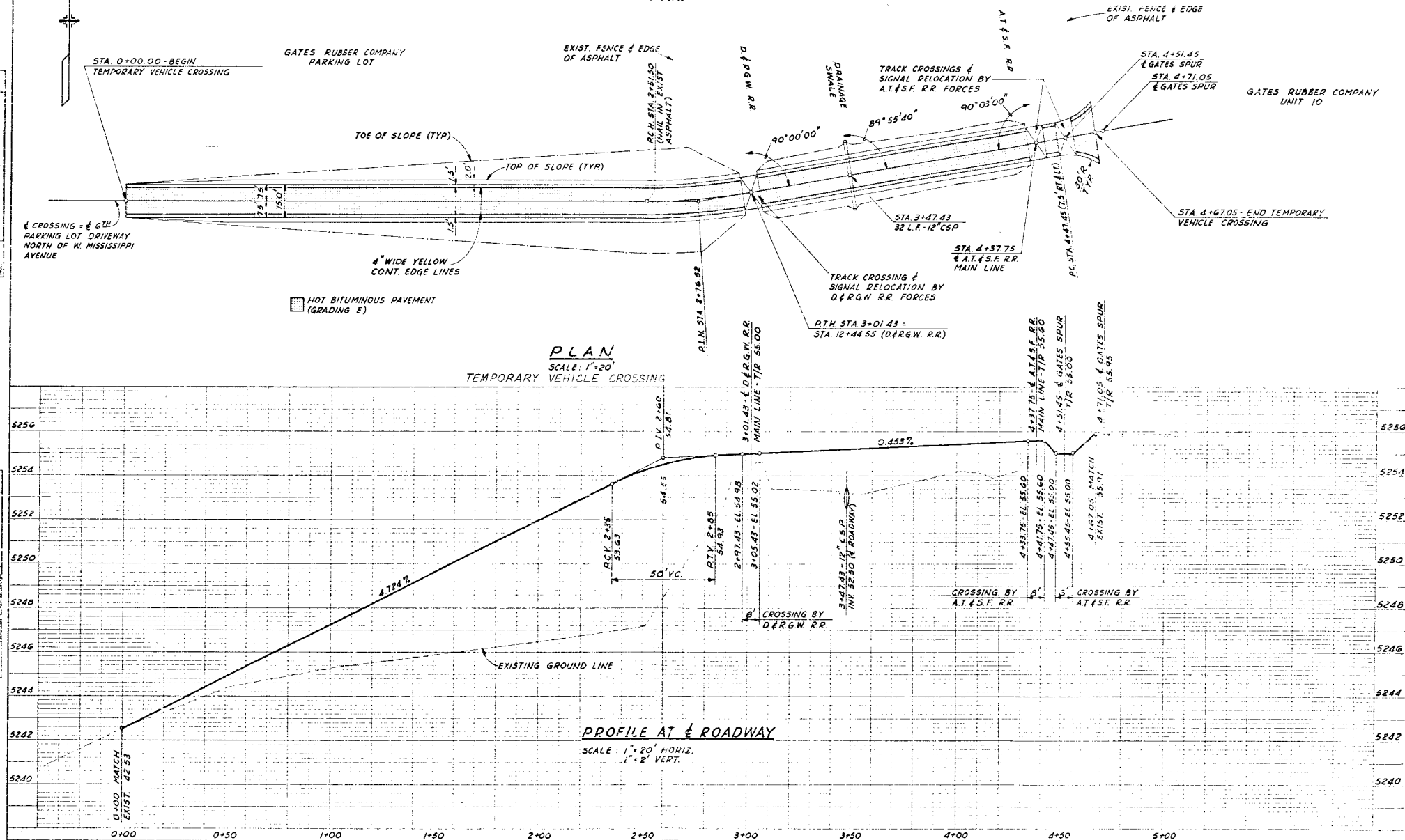
SW 1/4, SEC. 15
T4S, R68W

CURVE DATA
R=300'
D=19°05'55"
Δ=9°32'07"
T=26.02'
L=49.93'

M 1266 (002) 14 15

PLAN
NOT TO SCALE

PROFILE
NOT TO SCALE



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THE STANDARD PLAN SHEETS INDICATED HEREIN BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

DEPARTMENT OF HIGHWAYS STATE OF COLORADO DIVISION OF HIGHWAYS	
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M & S STANDARDS	JANUARY, 1992

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