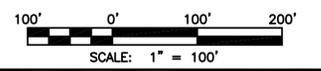


SCALE: 1"=100'

MANHOLE LOCATION PLAN

NOTES:
1. SEE DRAWINGS C-19 AND C-20 FOR REHABILITATION DETAILS.



Rev.	Description	Date
G	RECORD DRAWINGS	3/5/07



Scale	AS NOTED
Designed By:	TJB
Drawn By:	KSC
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

MANHOLE LOCATION MAP - (7)



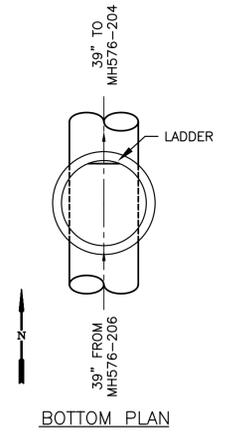
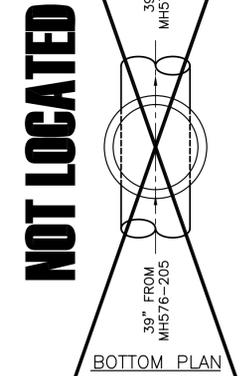
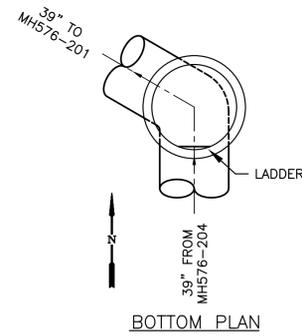
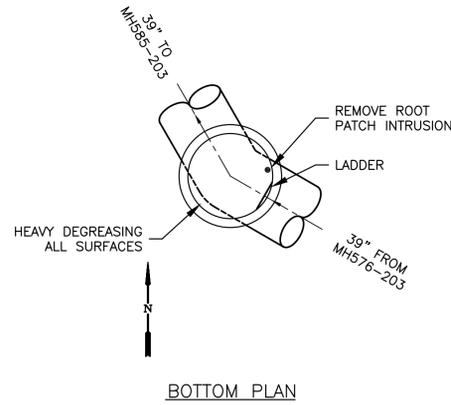
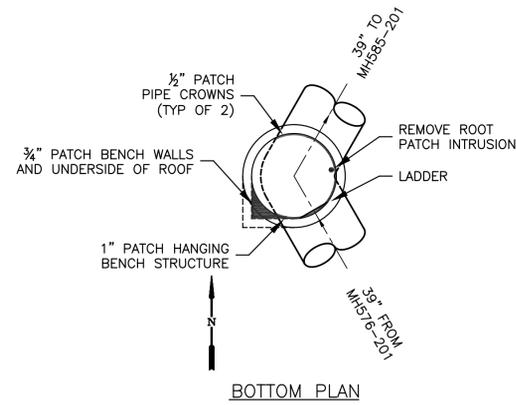
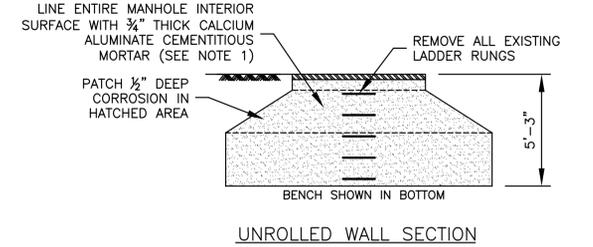
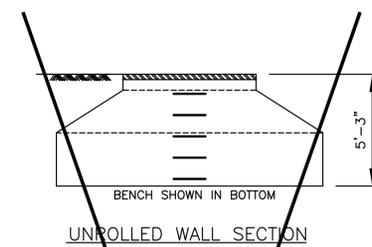
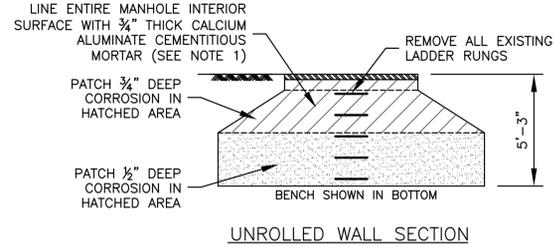
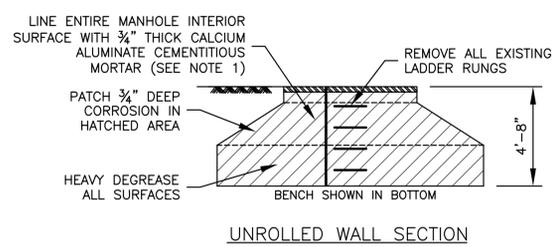
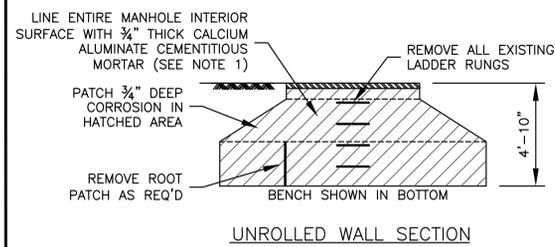
City of Sunnyvale
Santa Clara County
California

Department of Public Works
456 West Olive Avenue
P.O. Box 3707
Sunnyvale 94088-3707

City of Sunnyvale
Project No.
UY-02/05-03

Drawing No.
C-7

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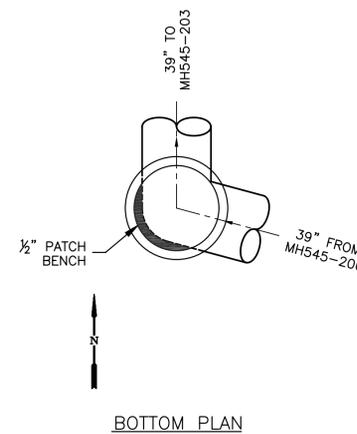
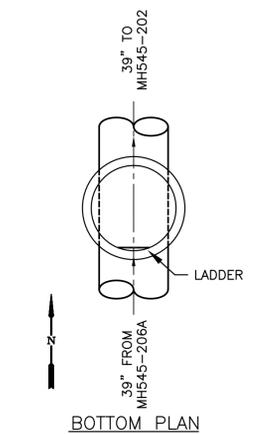
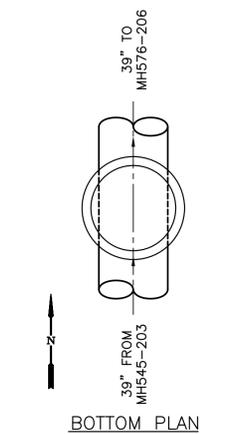
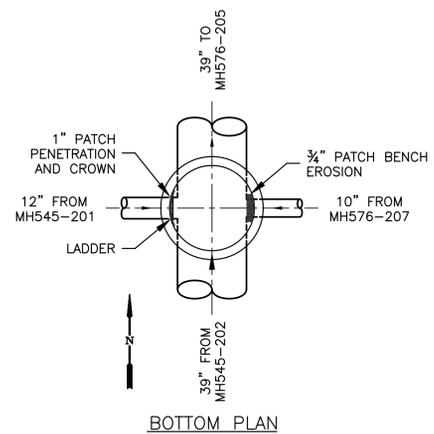
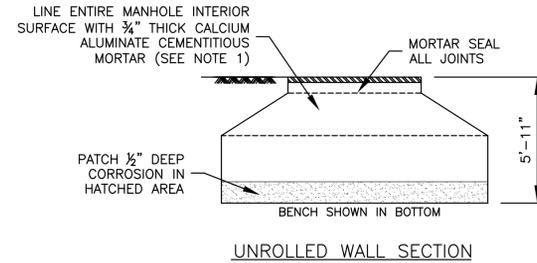
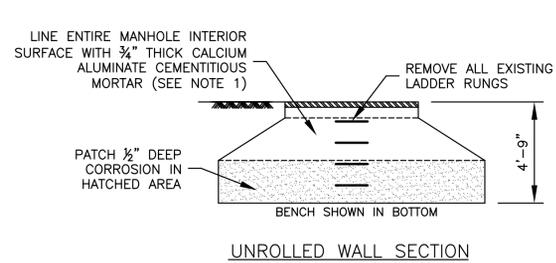
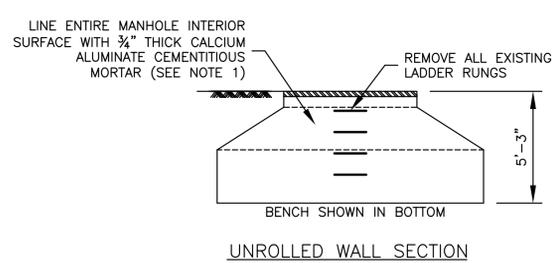
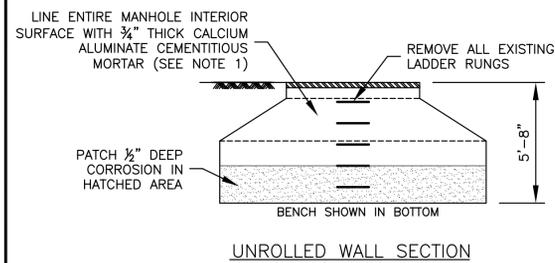
MANHOLE 585-203

MANHOLE 576-201

MANHOLE 576-203

MANHOLE 576-204

MANHOLE 576-205



MANHOLE 576-206

MANHOLE 545-202

MANHOLE 545-203

MANHOLE 545-206A

- NOTES:
1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
 2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

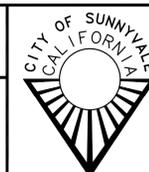
G	RECORD DRAWINGS	3/5/07
Rev.	Description	Date



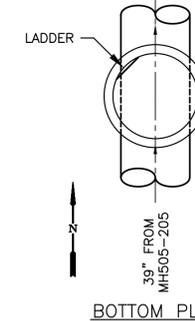
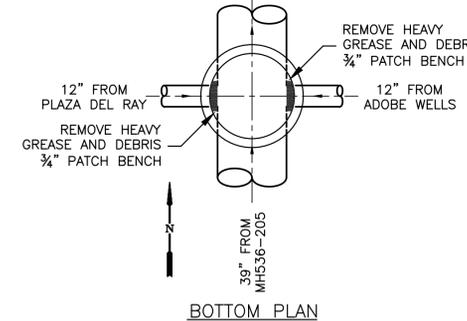
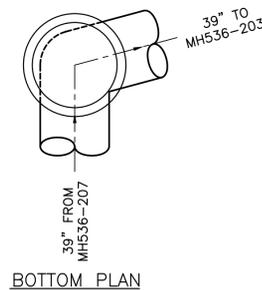
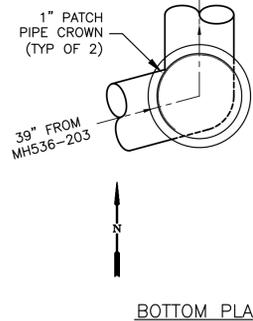
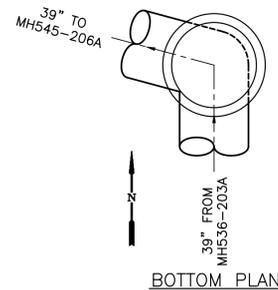
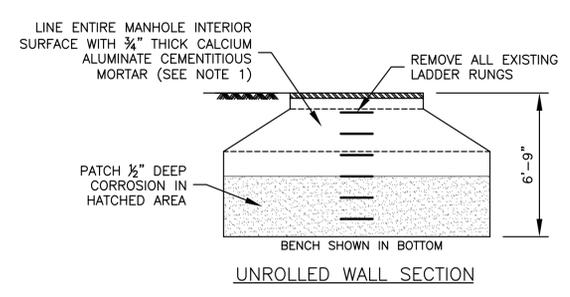
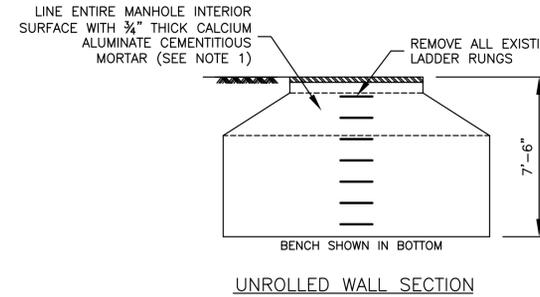
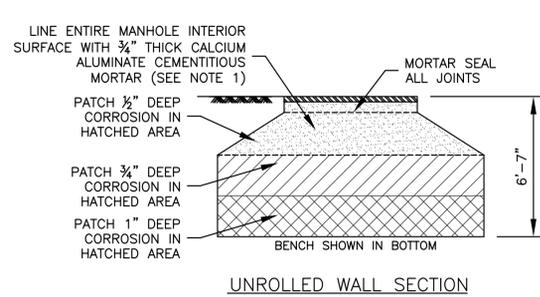
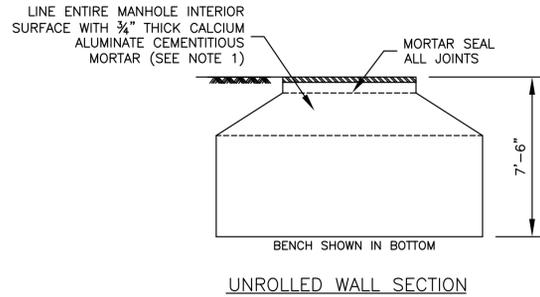
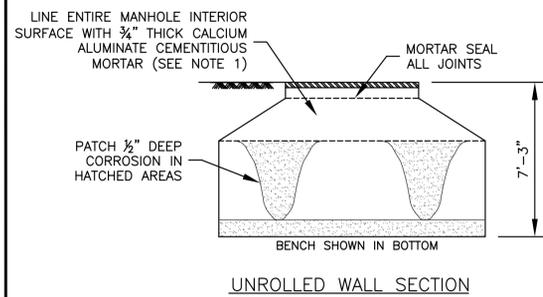
Scale	1/4"=1'-0"
Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

MANHOLE PLAN AND SECTIONS - (1)



City of Sunnyvale Santa Clara County California	City of Sunnyvale Project No. UY-02/05-03
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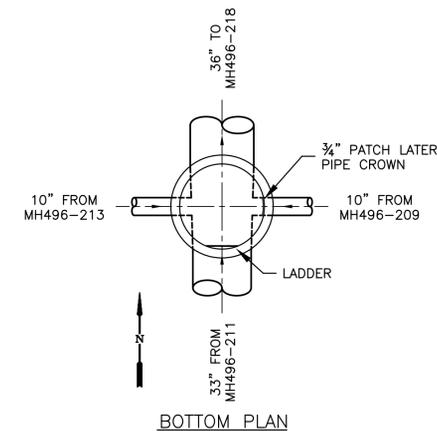
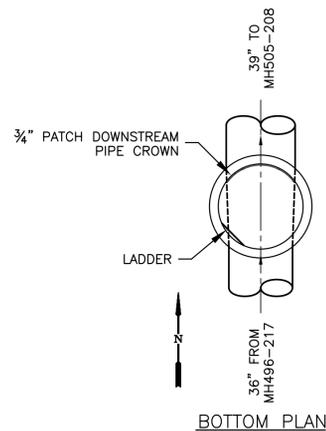
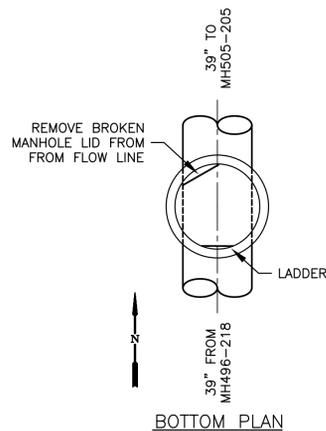
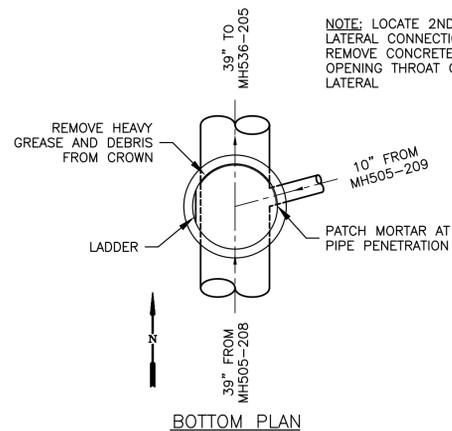
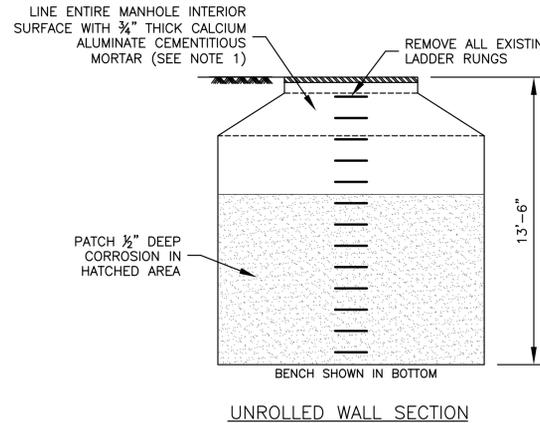
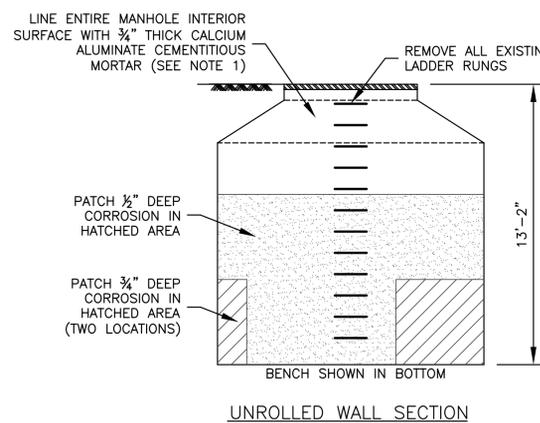
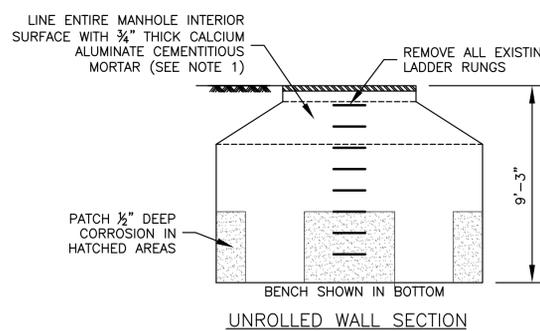
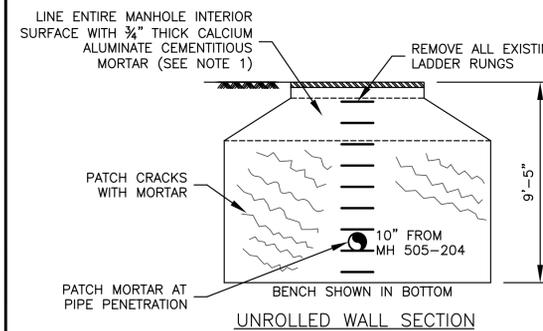
MANHOLE 545-206

MANHOLE 536-203A

MANHOLE 536-203

MANHOLE 536-207

MANHOLE 536-205



MANHOLE 505-205

MANHOLE 505-208

MANHOLE 496-218

MANHOLE 496-217

- NOTES:
1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
 2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

G	RECORD DRAWINGS	3/5/07
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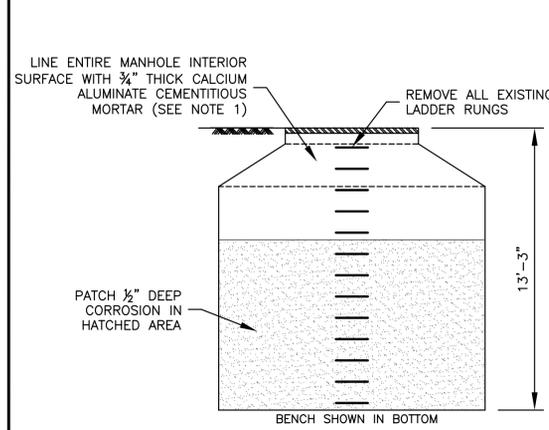
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Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

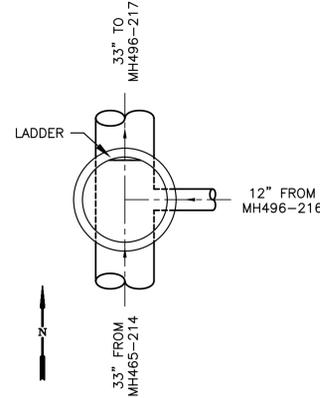
MANHOLE PLAN AND SECTIONS - (2)



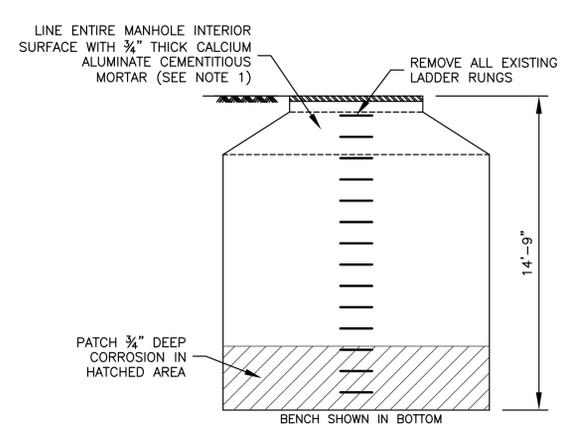
City of Sunnyvale Santa Clara County California	City of Sunnyvale Project No. UY-02/05-03
Department of Public Works 456 West Olive Avenue P.O. Box 3707 Sunnyvale 94088-3707	Drawing No. C-9
	Sheet 11 of 25



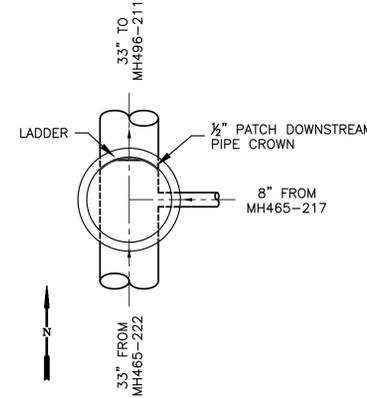
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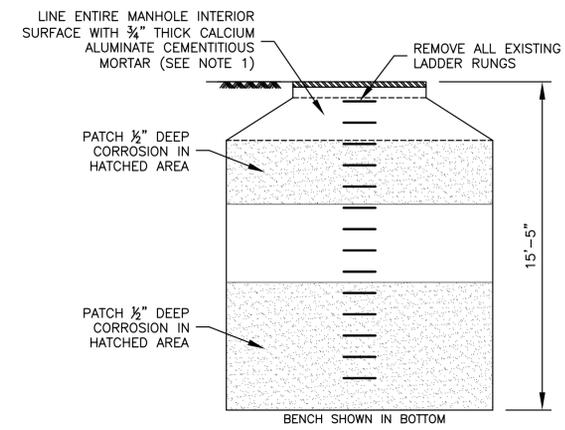
BOTTOM PLAN
MANHOLE 496-211



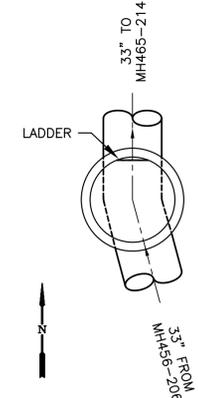
UNROLLED WALL SECTION



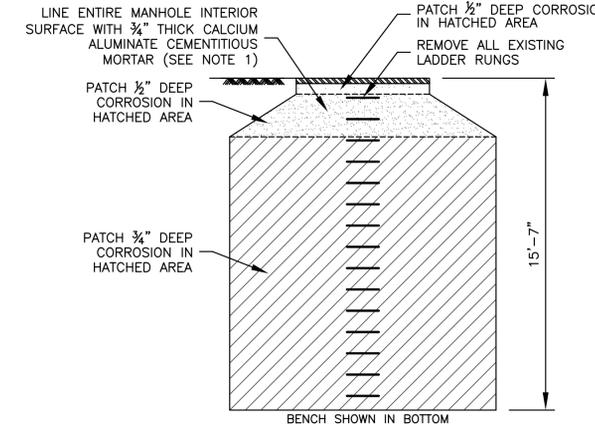
BOTTOM PLAN
MANHOLE 465-214



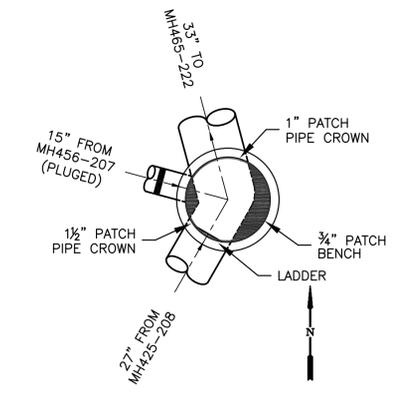
UNROLLED WALL SECTION



BOTTOM PLAN
MANHOLE 465-222



UNROLLED WALL SECTION



BOTTOM PLAN
MANHOLE 456-206

- NOTES:**
1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
 2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

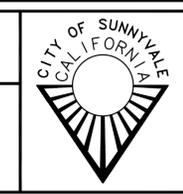
Rev.	Description	Date
G	RECORD DRAWINGS	3/5/07



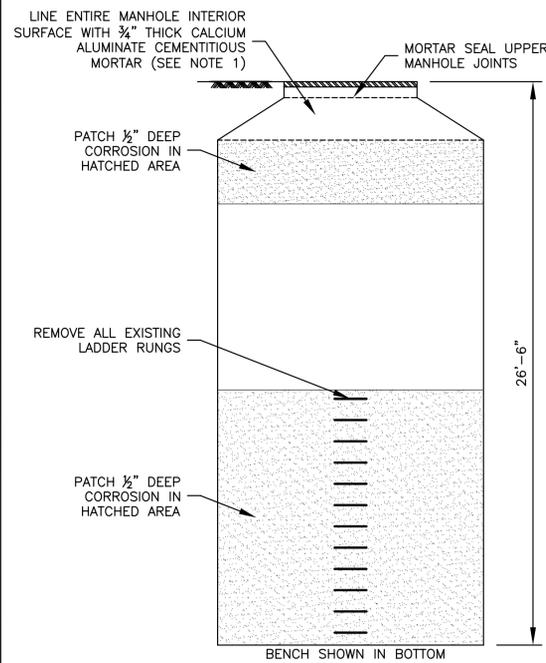
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Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

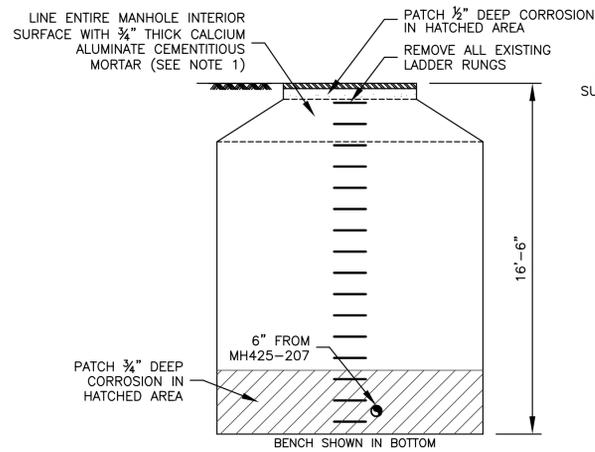
MANHOLE PLAN AND SECTIONS - (3)



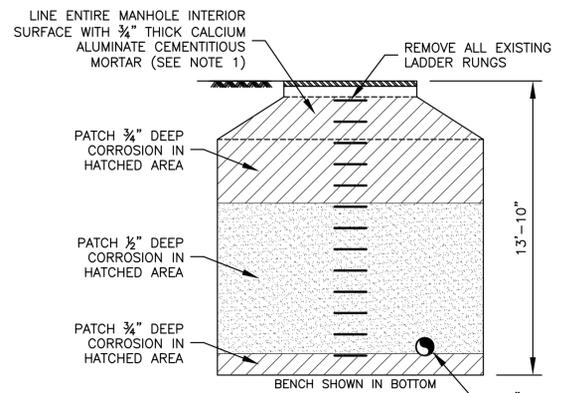
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Department of Public Works 456 West Olive Avenue P.O. Box 3707 Sunnyvale 94088-3707	Drawing No. C-10
	Sheet 12 of 25



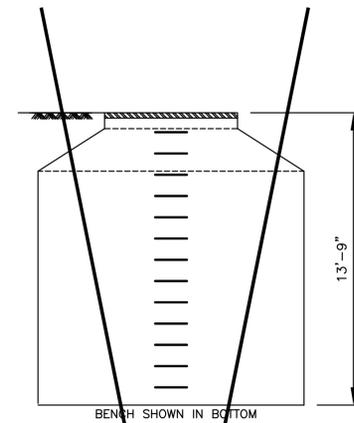
UNROLLED WALL SECTION



UNROLLED WALL SECTION

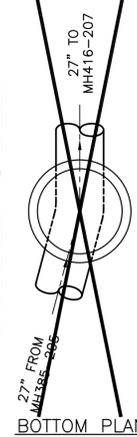


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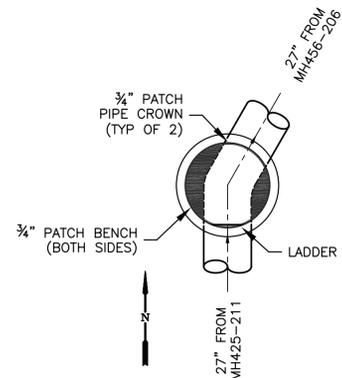


UNROLLED WALL SECTION

PAVED OVER

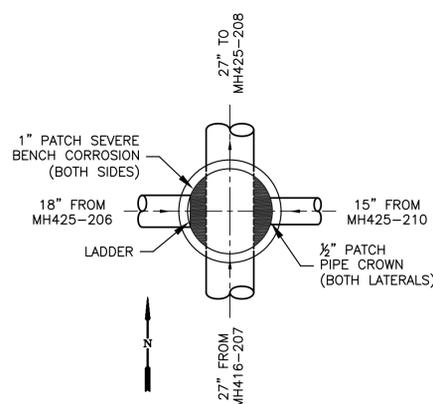


MANHOLE 416-206



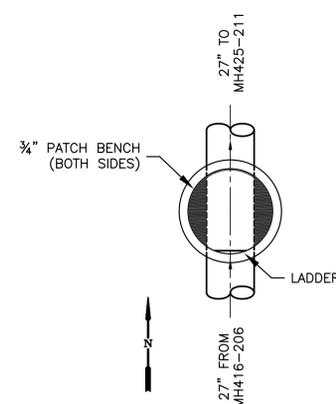
BOTTOM PLAN

MANHOLE 425-208



BOTTOM PLAN

MANHOLE 425-211



BOTTOM PLAN

MANHOLE 416-207

NOTES:

1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

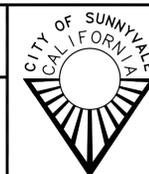
G	RECORD DRAWINGS	3/5/07
Rev.	Description	Date



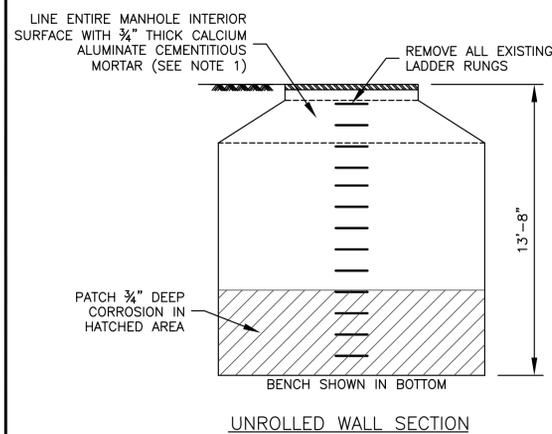
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Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

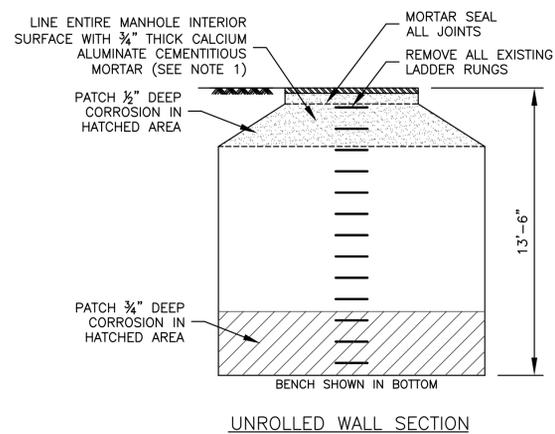
MANHOLE PLAN AND SECTIONS - (4)



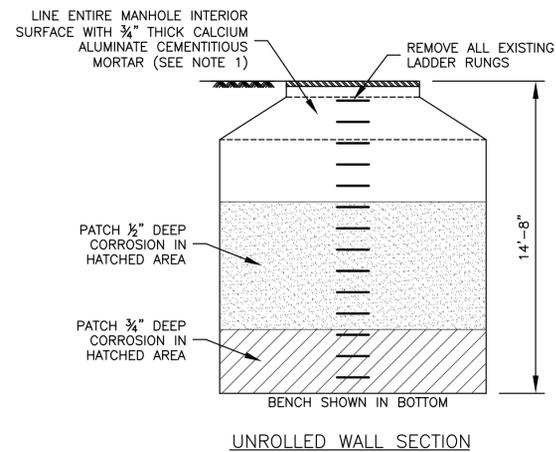
City of Sunnyvale Santa Clara County California	City of Sunnyvale Project No. UY-02/05-03
Department of Public Works 456 West Olive Avenue P.O. Box 3707 Sunnyvale 94088-3707	Drawing No. C-11
	Sheet 13 of 25



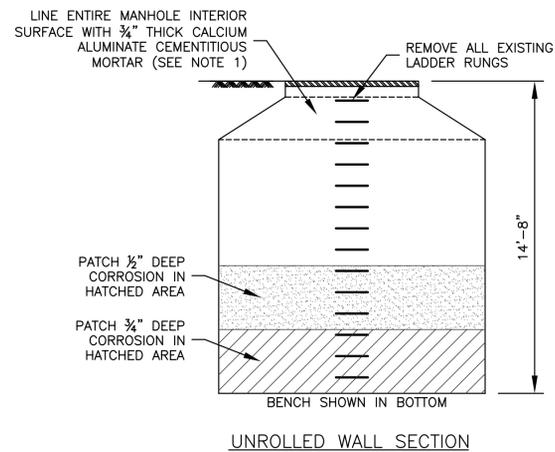
UNROLLED WALL SECTION



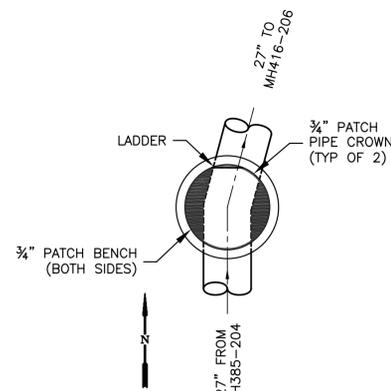
UNROLLED WALL SECTION



UNROLLED WALL SECTION

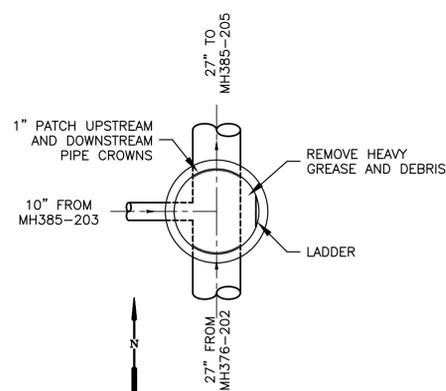


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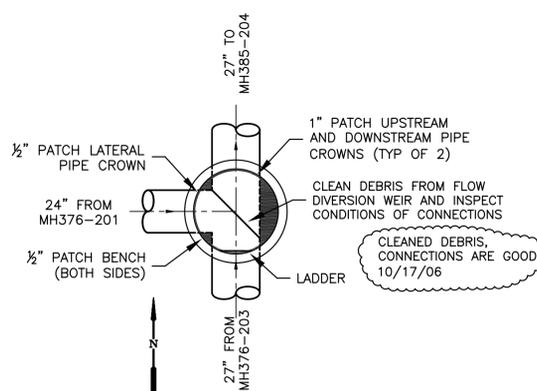
BOTTOM PLAN

MANHOLE 385-205



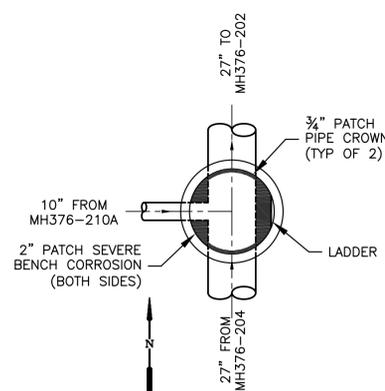
BOTTOM PLAN

MANHOLE 385-204



BOTTOM PLAN

MANHOLE 376-202



BOTTOM PLAN

MANHOLE 376-203

NOTES:

1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

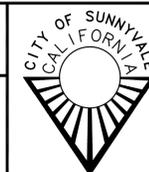
Rev.	Description	Date
G	RECORD DRAWINGS	3/5/07



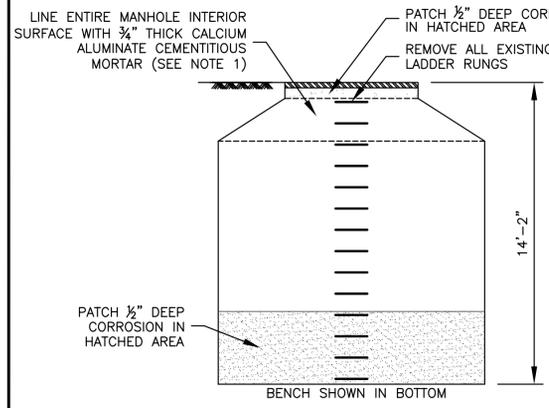
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Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

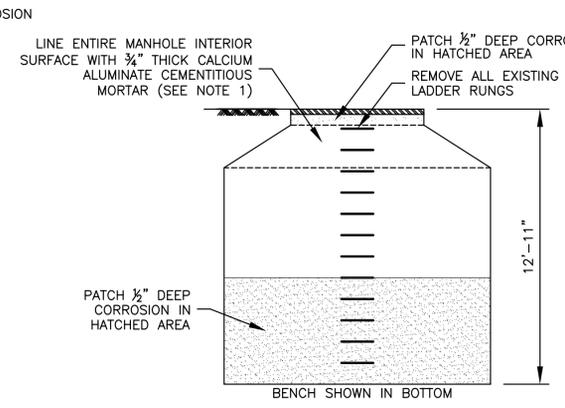
MANHOLE PLAN AND SECTIONS - (5)



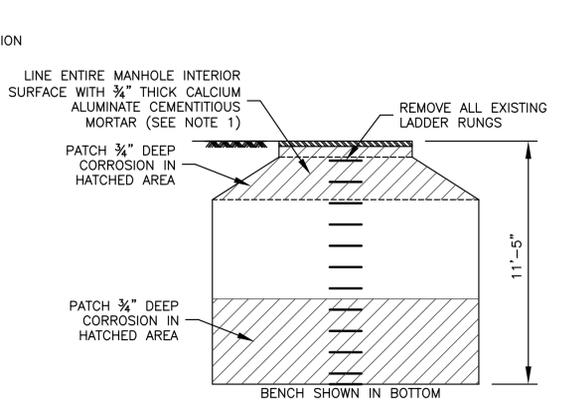
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Department of Public Works 456 West Olive Avenue P.O. Box 3707 Sunnyvale 94088-3707	Drawing No. C-12
	Sheet 14 of 25



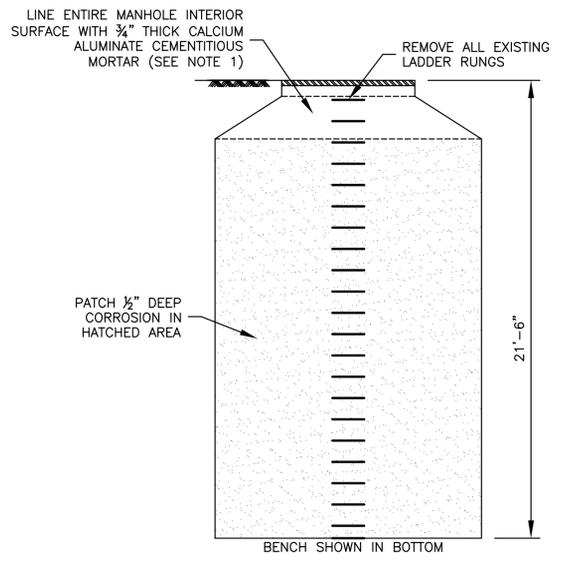
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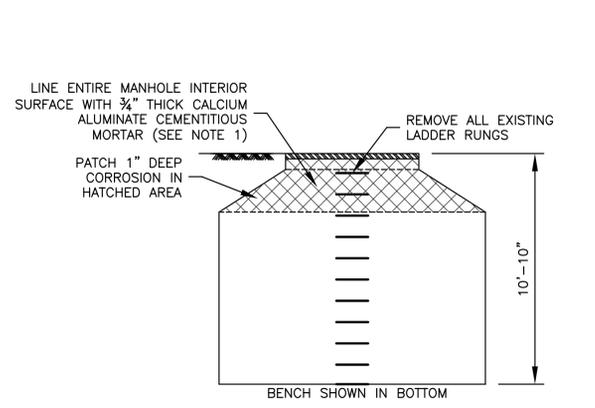
UNROLLED WALL SECTION



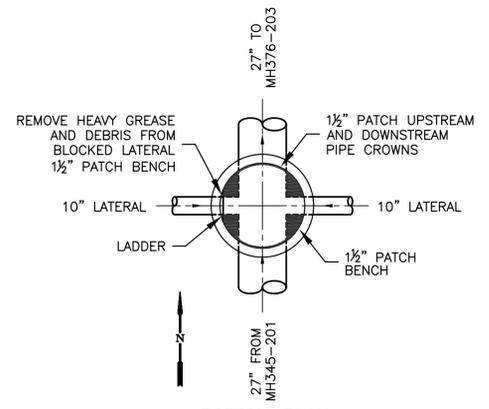
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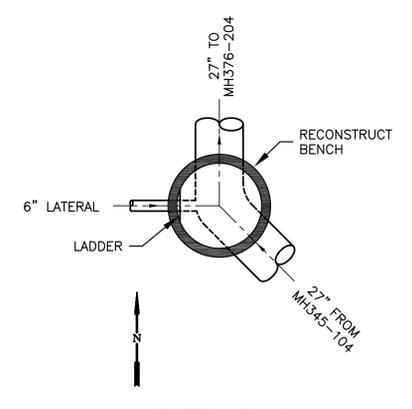
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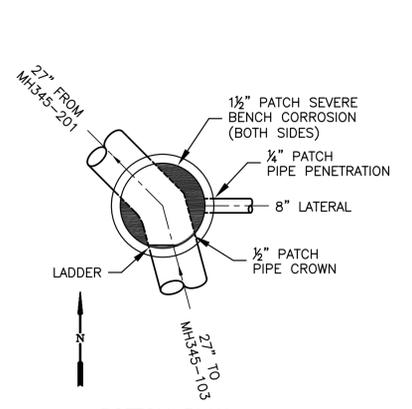
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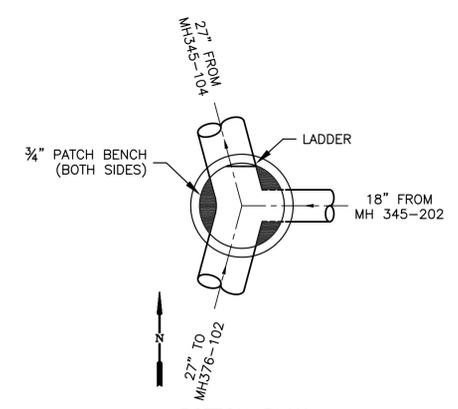
BOTTOM PLAN
MANHOLE 376-204



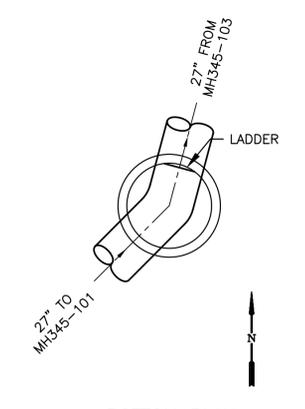
BOTTOM PLAN
MANHOLE 345-201



BOTTOM PLAN
MANHOLE 345-104



BOTTOM PLAN
MANHOLE 345-103



BOTTOM PLAN
MANHOLE 345-102

NOTES:
1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

Rev.	Description	Date
G	RECORD DRAWINGS	3/5/07

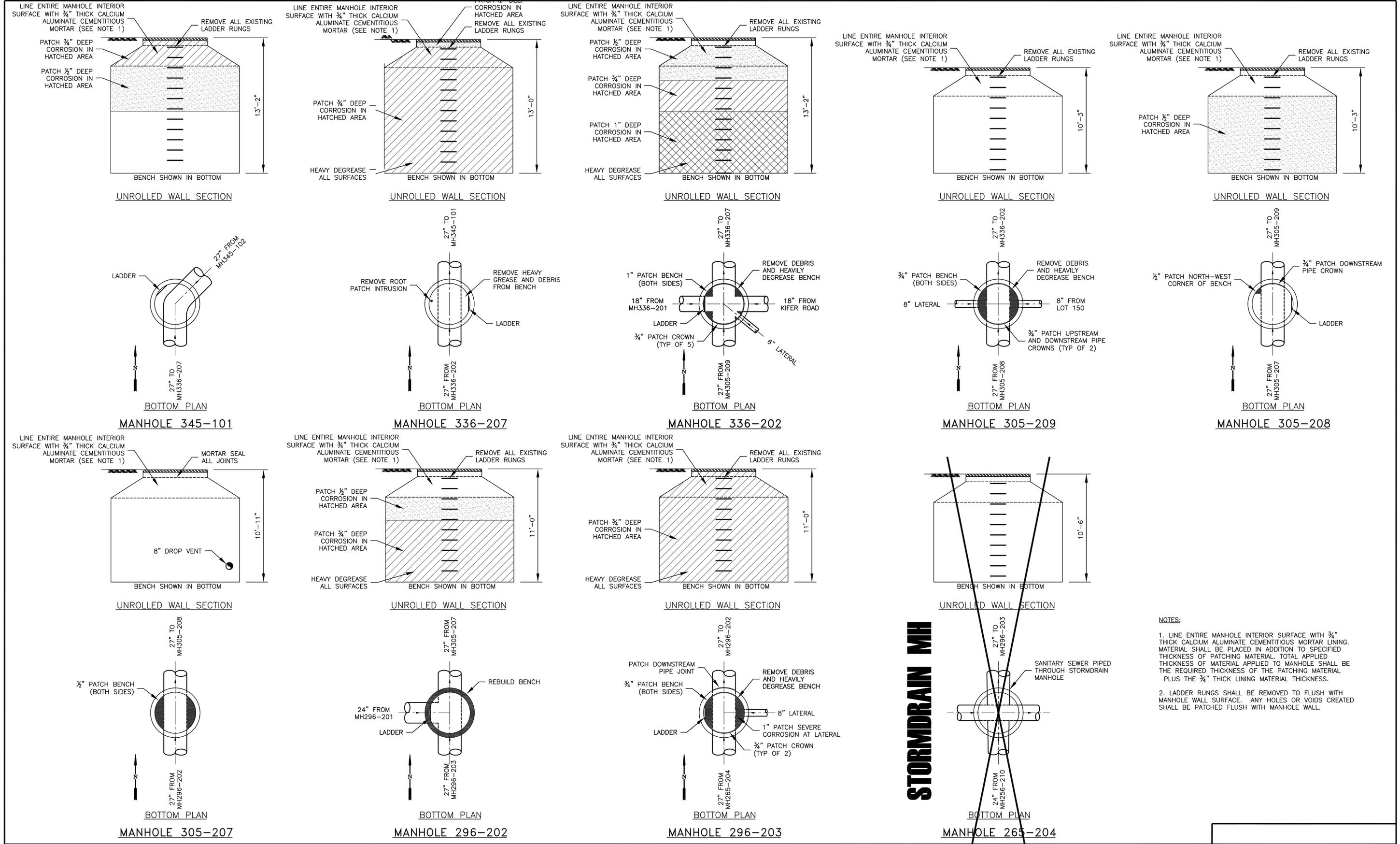
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Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

MANHOLE PLAN AND SECTIONS - (6)



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- NOTES:**
1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
 2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

G	RECORD DRAWINGS	3/5/07
Rev.	Description	Date



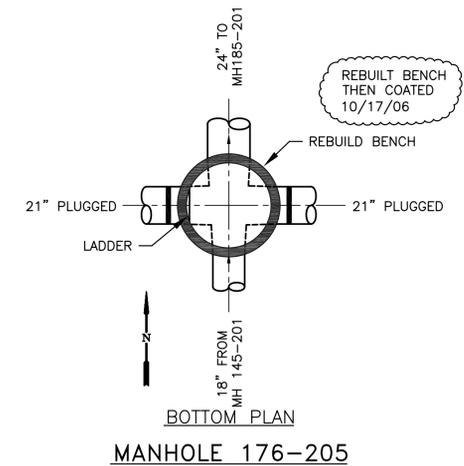
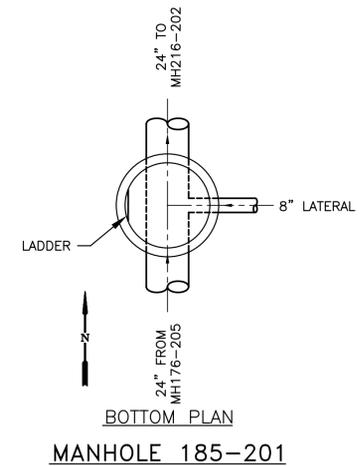
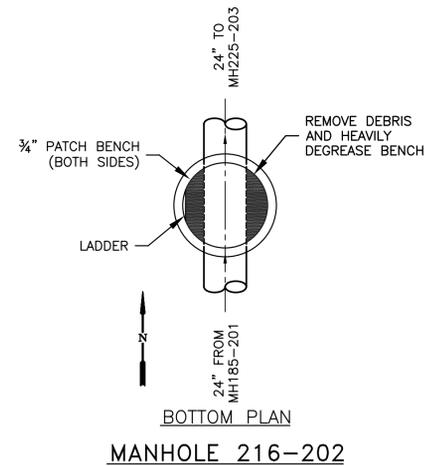
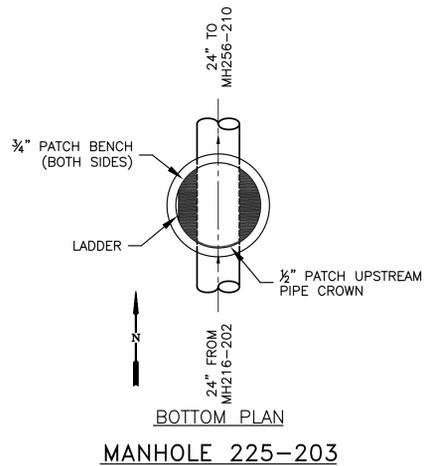
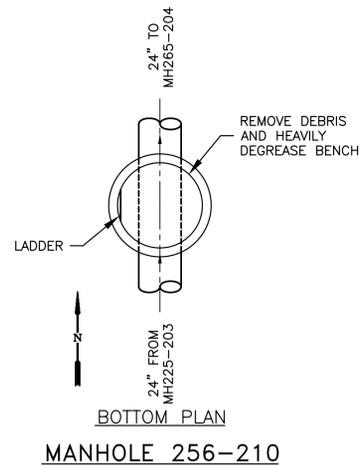
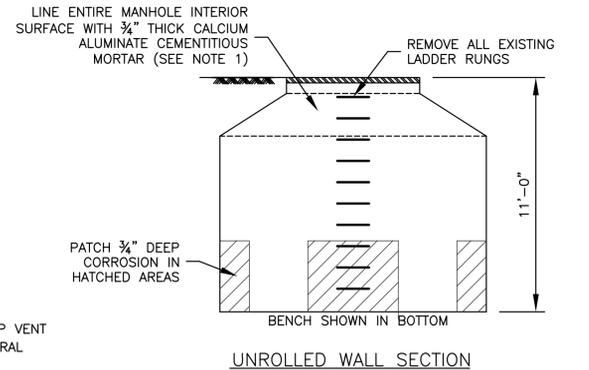
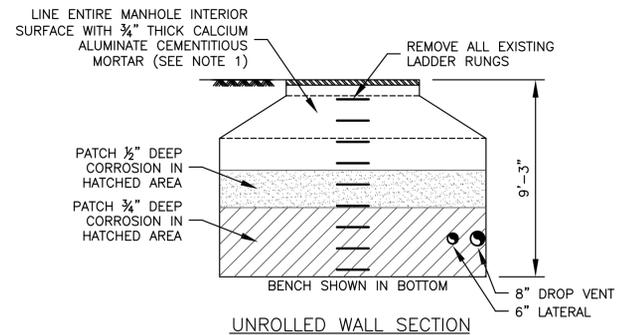
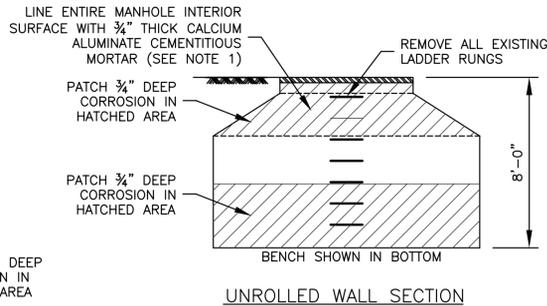
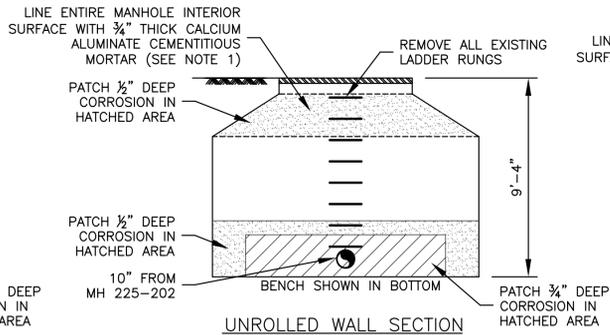
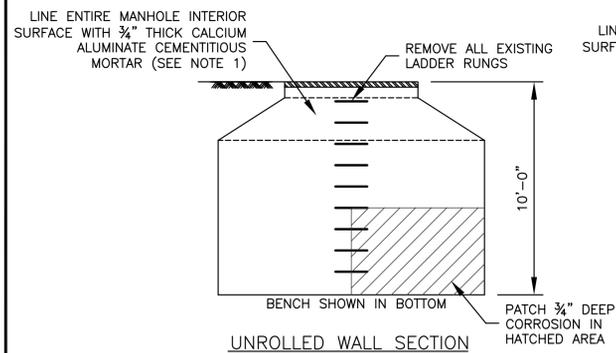
Scale	1/4"=1'-0"
Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

**REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER**

MANHOLE PLAN AND SECTIONS - (7)



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NOTES:

1. LINE ENTIRE MANHOLE INTERIOR SURFACE WITH 3/4" THICK CALCIUM ALUMINATE CEMENTITIOUS MORTAR LINING. MATERIAL SHALL BE PLACED IN ADDITION TO SPECIFIED THICKNESS OF PATCHING MATERIAL. TOTAL APPLIED THICKNESS OF MATERIAL APPLIED TO MANHOLE SHALL BE THE REQUIRED THICKNESS OF THE PATCHING MATERIAL PLUS THE 3/4" THICK LINING MATERIAL THICKNESS.
2. LADDER RUNGS SHALL BE REMOVED TO FLUSH WITH MANHOLE WALL SURFACE. ANY HOLES OR VOIDS CREATED SHALL BE PATCHED FLUSH WITH MANHOLE WALL.

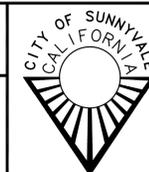
Rev.	Description	Date
G	RECORD DRAWINGS	3/5/07



Scale	1/4"=1'-0"
Designed By:	TJB
Drawn By:	JMP
Checked By:	BOG
Consultant's Job No.	610-01

REHABILITATION OF MANHOLES
LAWRENCE TRUNK SEWER

MANHOLE PLAN AND SECTIONS - (8)



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