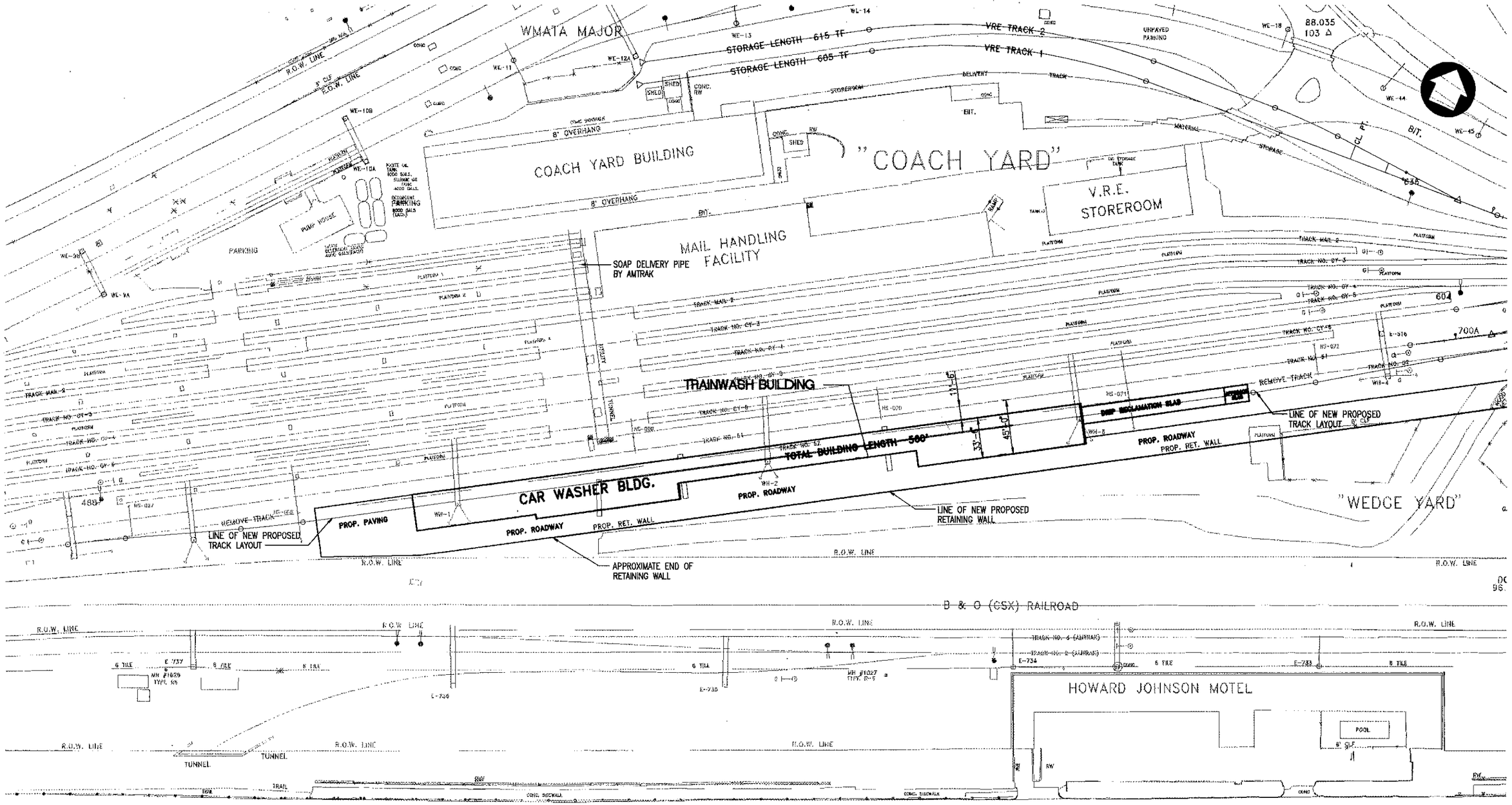

TRAINWASHER & DIAGNOSTIC BUILDING

1 / A40.1

SCALE: 1"=40'-0"

0 10' 20' 40' 80'

DATE:	REV:	DESCRIPTION:	BY:

STV Incorporated
ENGINEERS & PLANNERS
1055 WILSHIRE BLVD., SUITE 1455
LOS ANGELES, CA. 90017

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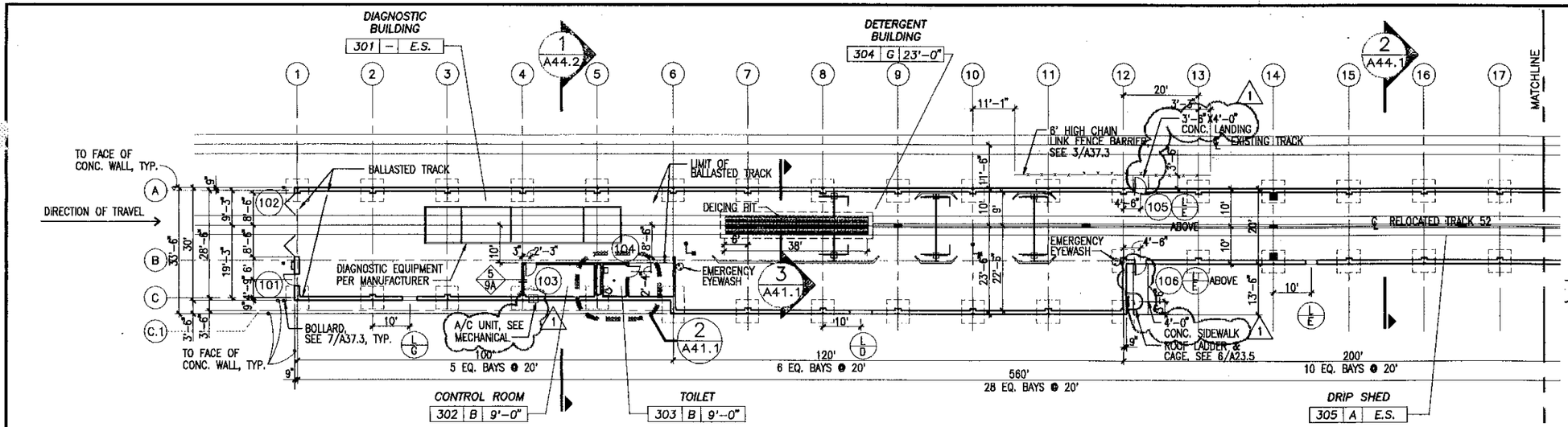
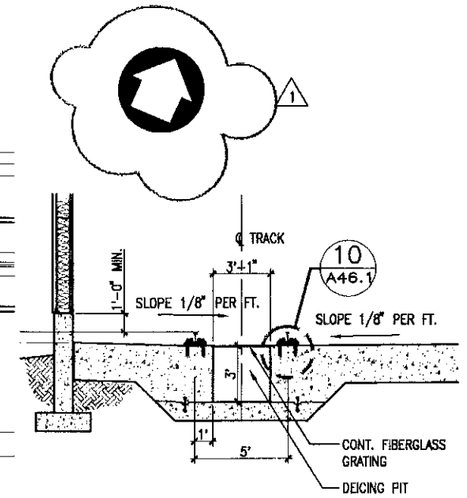
TRAINWASHER SITE PLAN

CONTRACT No.:	XXXX
DATE:	7-25-97
SCALE:	AS NOTED
DRAWING No.:	A40.1
SHEET No.:	OF

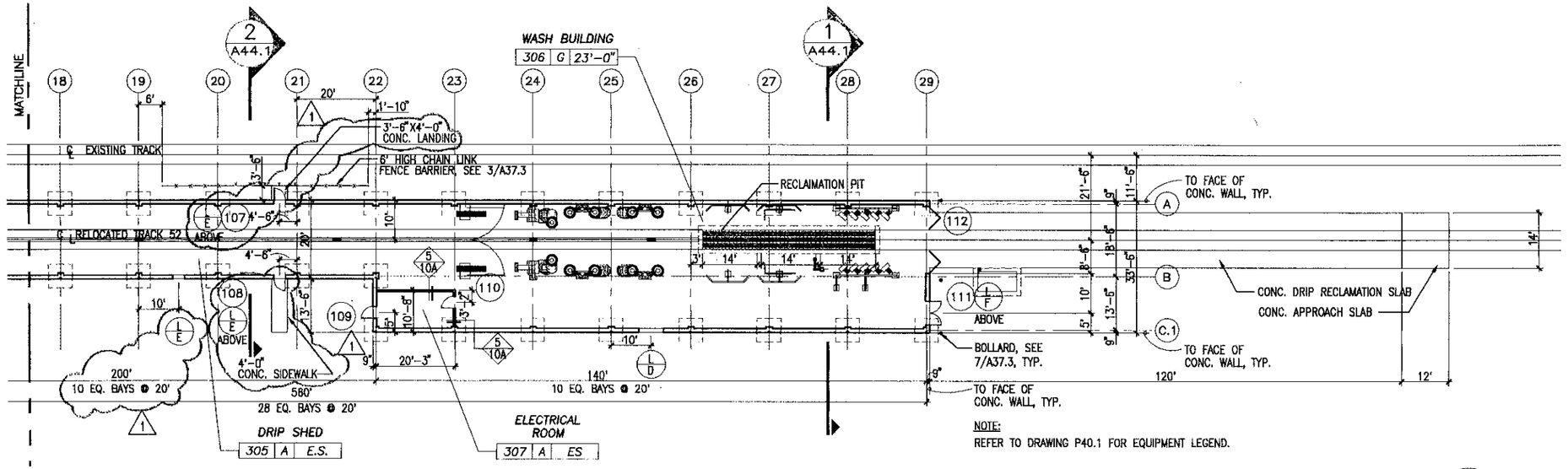
ISSUED FOR CONSTRUCTION





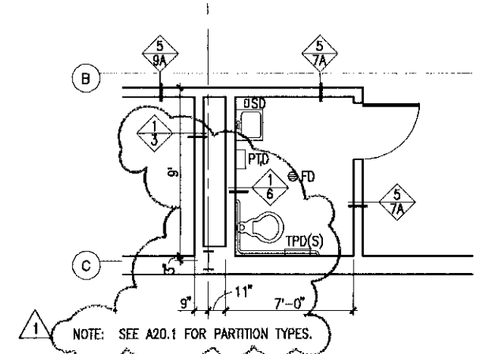
DEICING PIT SECTION 3 / A41.1

SCALE: 1/4"=1'–0"



TRAINWASHER & DIAGNOSTIC BUILDING (FULL BLDG.) 1 / A41.1

SCALE: 1/16"=1'–0"



ENLARGED TOILET PLAN 2 / A41.1

SCALE: 1/4"=1'–0"

BUILDING DATA

USE: TRAINWASHER BUILDING FOR ELECTRIC HIGH–SPEED TRAINSET

BUILDING AREA, GROSS (BUILDING FOOTPRINT)	15,756 S.F.
BUILDING HEIGHT	30'–0"
ALLOWABLE W/ AREA INCREASES	14,400 SF. 2% FOR EACH 1% OF EXCESS 25% BUILDING PERIMETER FRONTAGE 540' / 1147' = 47% 47% – 25% = 22% 22% x 2% = 44% INCREASE 44% x 14,400 = 6,336 SF.
ALLOWABLE AREA INCREASE	6,336 + 14,400 = 20,736 SF.
OCCUPANCY GROUP	B "CAR WASH"
DESIGN OCCUPANT LOAD MAX. NUMBER OF EMPLOYEE	3
TYPE OF CONSTRUCTION	2C UNPROTECTED

DESIGN CRITERIA

THE BUILDING WORK ON THIS PROJECT HAS BEEN DESIGNED TO CONFORMED TO THE BOCA NATIONAL BUILDING CODE 1990 EDITION

TOILET ACCESSORIES LEGEND

T.P.D.	T.P.D.	COMBINATION SEAT COVER DISPENSER, TOILET PAPER DISPENSER, AND SANITARY NAPKIN/TAMPON DISPOSAL (IN FEMALE TOILET ONLY)
F.N.D.	F.N.D.	FEMININE NAPKIN DISPENSER
S.D.	S.D.	SOAP DISPENSER
P.T.D.(S)	P.T.D.(S)	PAPER TOWEL DISPENSER/WASTE RECEPTACLE (SURFACE–MOUNTED)
U.H.	U.H.	UTILITY HOOK

DATE:	REV:	DESCRIPTION:	BY:
7/15/97	1	GENERAL CORRECTIONS REVISION	

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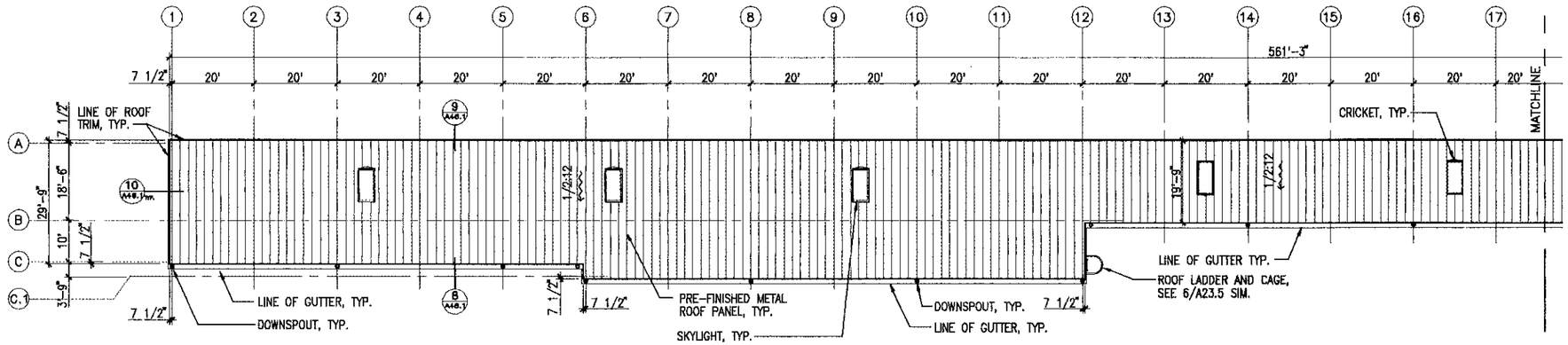
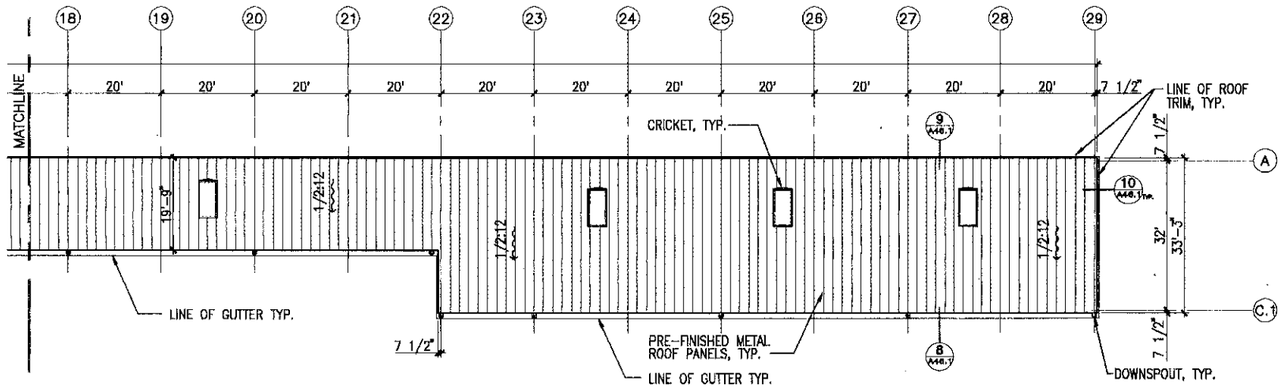
TRAINWASHER PLAN AND CODE ANALYSIS

CONTRACT No.:	XXXX
DATE:	7–25–97
SCALE:	AS NOTED
DRAWING No.:	A41.1
SHEET No.:	OF

ISSUED FOR CONSTRUCTION





TRAINWASHER & DIAGNOSTIC BUILDING (FULL BLDG.)

1 / A42.1

SCALE: 1/16"=1'-0"

DATE:	REV:	DESCRIPTION:	BY:
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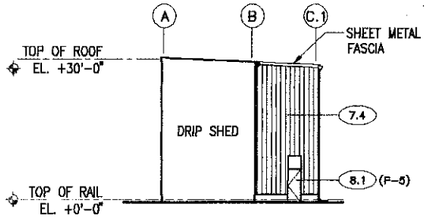
TRAINWASHER ROOF PLAN

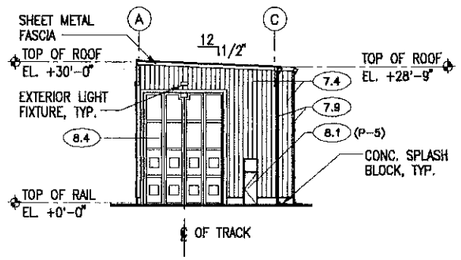
CONTRACT No.:	XXXX
DATE:	7-25-97
SCALE:	AS NOTED
DRAWING No.:	A42.1
SHEET No.:	OF

ISSUED FOR CONSTRUCTION



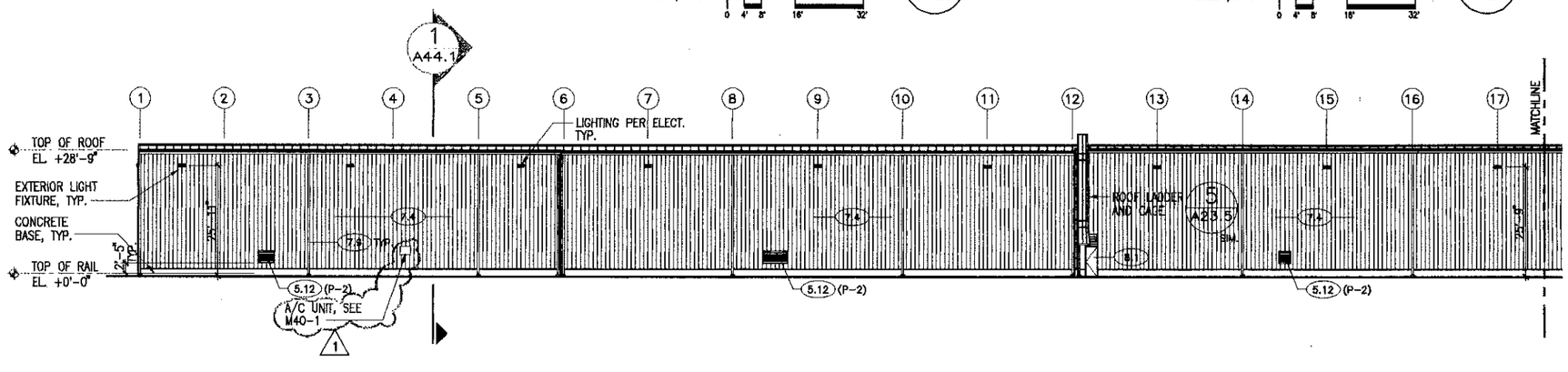
WEST ELEVATION 2 / A43.1

SCALE: 1/16"=1'-0"



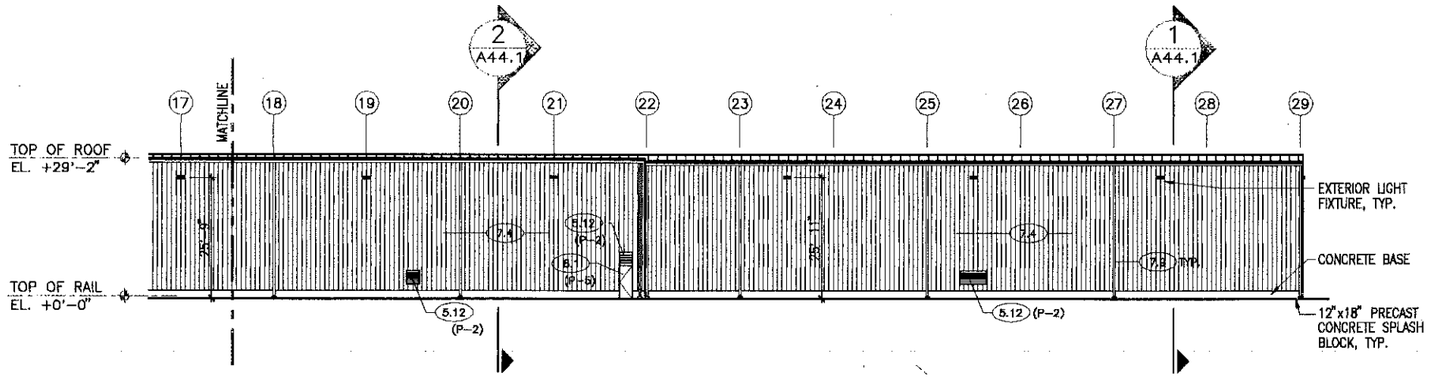
WEST ELEVATION 1 / A43.1

SCALE: 1/16"=1'-0"



PARTIAL SOUTH ELEVATION 3 / A43.1

SCALE: 1/16"=1'-0"



PARTIAL SOUTH ELEVATION 4 / A43.1

SCALE: 1/16"=1'-0"

KEYNOTES

3. CONCRETE

3.1 CONCRETE SLAB
3.2 CONCRETE APPROACH SLAB
3.3 CONCRETE APRON
3.4 CONCRETE FOOTING
3.5 CONCRETE STAIR
3.6 LIGHTWEIGHT CONCRETE TOPPING
3.7 CONCRETE CURB

4. MASONRY

4.1 CONCRETE MASONRY TYPE I – 8"W PRECISION
4.2 CONCRETE MASONRY TYPE II – 8"W SPLIT FACE
4.3 CONCRETE MASONRY TYPE III – 4"W PRECISION
4.4 CONCRETE MASONRY TYPE IV – 4"W SPLIT FACE

5. METALS

5.1 PAINTED STEEL STRUCTURE
5.2 PAINTED STEEL HANDRAIL
5.3 PAINTED STEEL PLATE
5.4 PAINTED STEEL BRACING
5.5 PAINTED STEEL LADDER
5.6 PAINTED STEEL GUARDRAIL
5.7 PAINTED STEEL CAGE
5.8 PAINTED STEEL PAN STAIR
5.9 METAL DECK
5.10 LOAD-BEARING METAL STUD FRAMING
5.11 SAFETY NOSING
5.12 METAL LOUVER

7. THERMAL AND MOISTURE PROTECTION

7.1 WATERPROOF MEMBRANE
7.2 BATT INSULATION
7.3 PREFABRICATED SHEET METAL ROOFING, FACTORY PAINTED
7.4 PREFABRICATED, FACTORY PAINTED SHEET METAL WALL SYSTEM
7.5 PREFABRICATED, FACTORY PAINTED SHEET METAL SOFFIT/LINER PANEL
7.6 NOT USED
7.7 METAL FLASHING
7.8 METAL GUTTER, 16" WIDE U.O.N.
7.9 METAL DOWNSPOUT
7.10 SKYLIGHT/SMOKEVENT
7.11 SHEET METAL COPING
7.12 SHEET METAL SCUPPER
7.13 ROOF DRAIN
7.14 OVERFLOW DRAIN
7.15 INSULATED TRANSLUCENT FIBERGLASS PANEL
7.16 RIGID INSULATION
7.17 BUILDING PAPER
7.18 CANT STRIP
7.19 FIRESTOPPING
7.20 SEALANT/CAULKING
7.21 SOUND ATTENUATION INSULATION

8. DOORS AND WINDOWS

8.1 HOLLOW METAL DOOR AND FRAME
8.2 ANODIZED ALUMINUM WINDOW
8.3 METAL OVERHEAD COILING DOOR
8.4 PAINTED STEEL BI-FOLD DOOR WITH GLASS LITE
8.5 ACCESS DOOR
8.6 ALUMINUM STOREFRONT WINDOW/DOOR SYSTEM

DATE:	REV:	DESCRIPTION:	BY:
10/15/97	1	GENERAL CORRECTIONS REVISION	

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LOS ANGELES, CA. 90017

BOMBARDIER
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DISTRICT OF COLUMBIA
ROBERT A. RADLEIN
6224
REGISTERED ARCHITECT

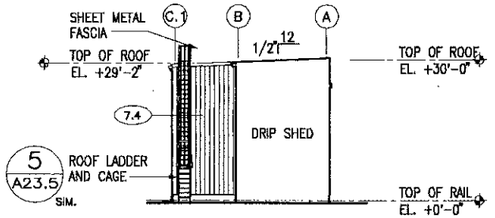
Amtrak

IVY CITY YARD
WASHINGTON, DC

TRAINWASHER BUILDING ELEVATIONS

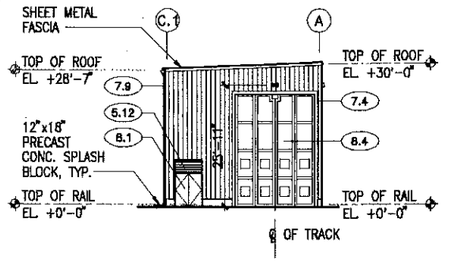
CONTRACT No.:	XXXX
DATE:	7-25-97
SCALE:	AS NOTED
DRAWING No.:	A43.1
SHEET No.:	OF

ISSUED FOR CONSTRUCTION



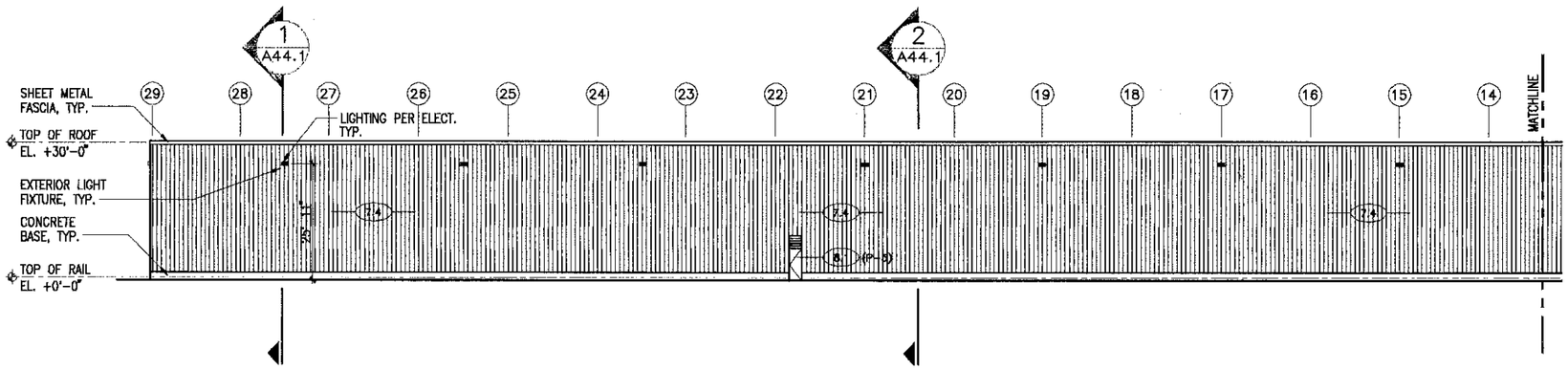
EAST ELEVATION 2 / A43.2

SCALE: 1/16"=1'-0"



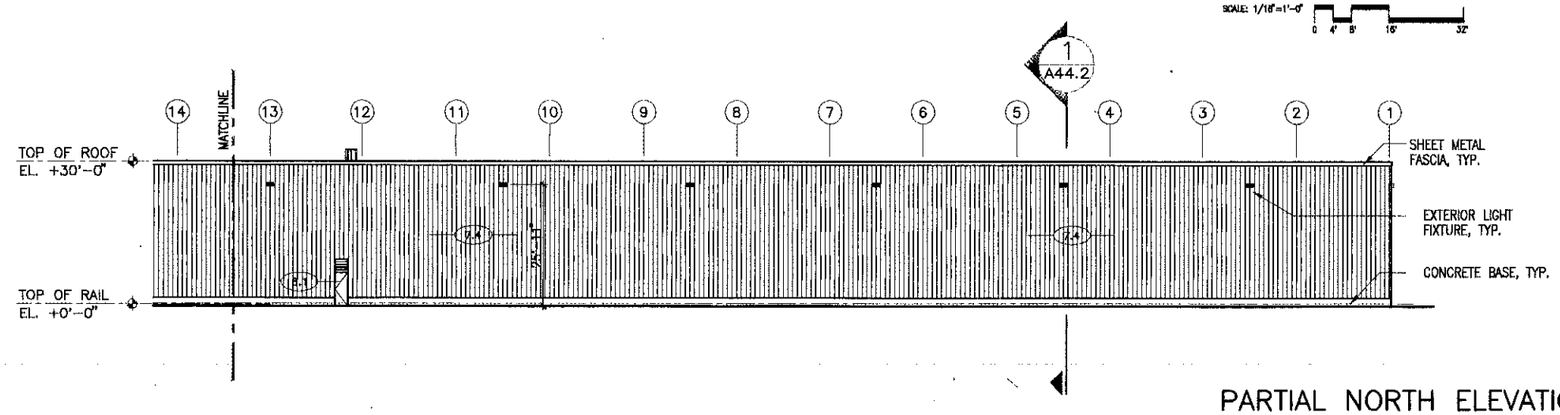
EAST ELEVATION 1 / A43.2

SCALE: 1/16"=1'-0"



PARTIAL NORTH ELEVATION 3 / A43.2

SCALE: 1/16"=1'-0"



PARTIAL NORTH ELEVATION 4 / A43.2

SCALE: 1/16"=1'-0"

KEYNOTES

3. CONCRETE

3.1 CONCRETE SLAB
3.2 CONCRETE APPROACH SLAB
3.3 CONCRETE APRON
3.4 CONCRETE FOOTING
3.5 CONCRETE STAIR
3.6 LIGHTWEIGHT CONCRETE TOPPING
3.7 CONCRETE CURB

4. MASONRY

4.1 CONCRETE MASONRY TYPE I – 8"W PRECISION
4.2 CONCRETE MASONRY TYPE II – 8"W SPLIT FACE
4.3 CONCRETE MASONRY TYPE III – 4"W PRECISION
4.4 CONCRETE MASONRY TYPE IV – 4"W SPLIT FACE

5. METALS

5.1 PAINTED STEEL STRUCTURE
5.2 PAINTED STEEL HANDRAIL
5.3 PAINTED STEEL PLATE
5.4 PAINTED STEEL BRACING
5.5 PAINTED STEEL LADDER
5.6 PAINTED STEEL GUARDRAIL
5.7 PAINTED STEEL CAGE
5.8 PAINTED STEEL PAN STAIR
5.9 METAL DECK
5.10 LOAD-BEARING METAL STUD FRAMING
5.11 SAFETY NOSING
5.12 METAL LOUVER

7. THERMAL AND MOISTURE PROTECTION

7.1 WATERPROOF MEMBRANE
7.2 BATT INSULATION
7.3 PREFABRICATED SHEET METAL ROOFING, FACTORY PAINTED
7.4 PREFABRICATED, FACTORY PAINTED SHEET METAL WALL SYSTEM
7.5 PREFABRICATED, FACTORY PAINTED SHEET METAL SOFFIT/LINER PANEL
7.6 NOT USED
7.7 METAL FLASHING
7.8 METAL GUTTER, 16" WIDE U.O.N.
7.9 METAL DOWNSPOUT
7.10 SKYLIGHT/SMOKEVENT
7.11 SHEET METAL COPING
7.12 SHEET METAL SCUPPER
7.13 ROOF DRAIN
7.14 OVERFLOW DRAIN
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7.18 CANT STRIP
7.19 FIRESTOPPING
7.20 SEALANT/CAULKING
7.21 SOUND ATTENUATION INSULATION

8. DOORS AND WINDOWS

8.1 HOLLOW METAL DOOR AND FRAME
8.2 ANODIZED ALUMINUM WINDOW
8.3 METAL OVERHEAD COILING DOOR
8.4 PAINTED STEEL BI-FOLD DOOR WITH GLASS LITE
8.5 ACCESS DOOR
8.6 ALUMINUM STOREFRONT WINDOW/DOOR SYSTEM

DATE:	REV:	DESCRIPTION:	BY:

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BOMBARDIER GEC ALSTHOM

DISTRICT OF COLUMBIA ROBERT A. RADLEIN 6224 REGISTERED ARCHITECT

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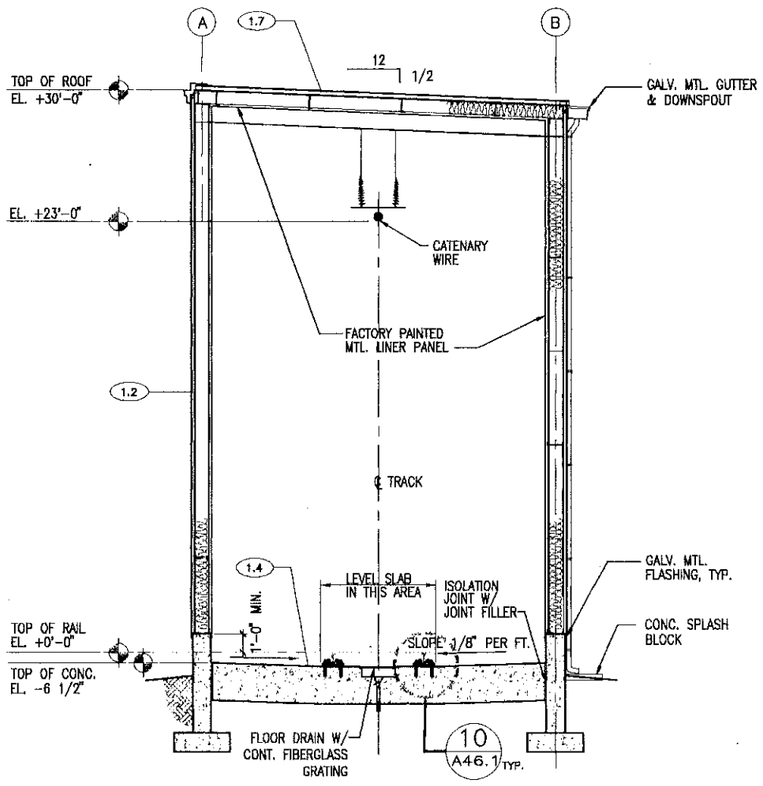
TRAINWASHER BUILDING ELEVATIONS

CONTRACT No.: XXXX
DATE: 7-25-97
SCALE: AS NOTED
DRAWING No.: A43.2
SHEET No.: OF

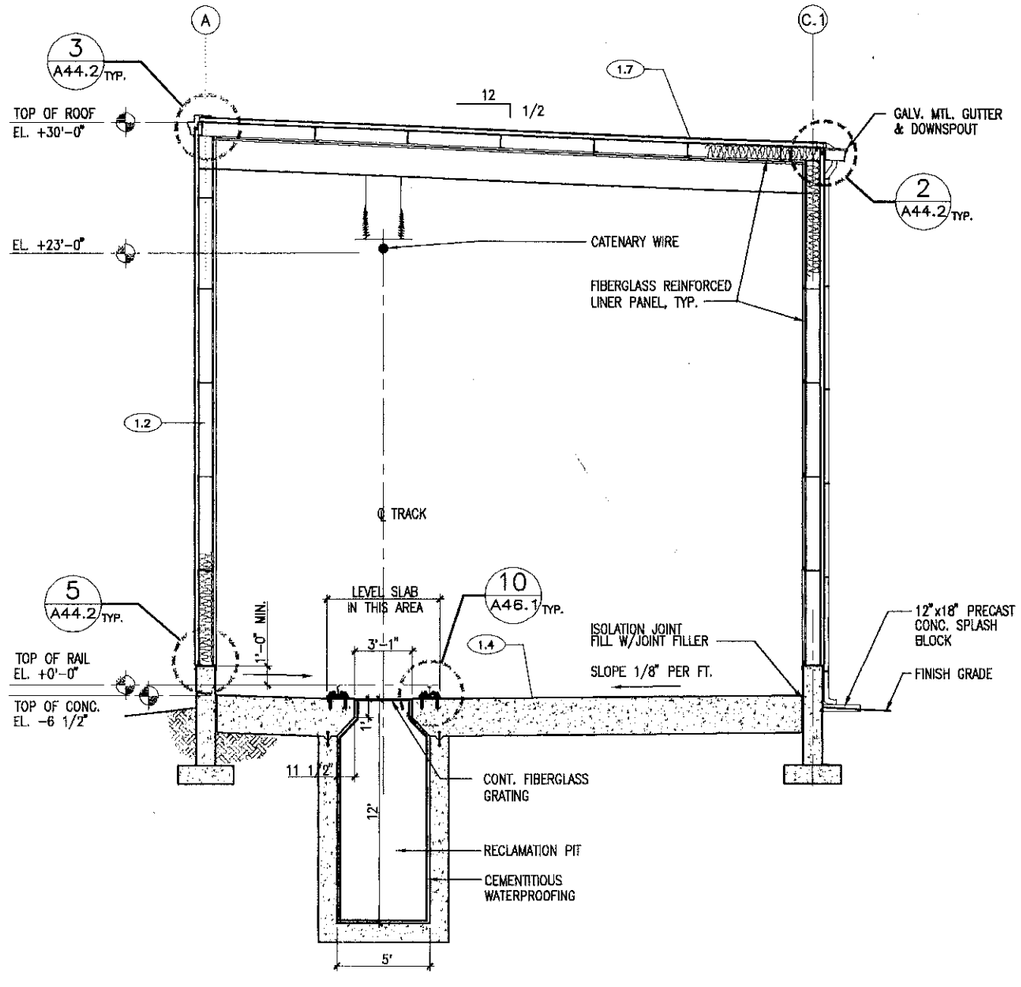
ISSUED FOR CONSTRUCTION



SECTION 2 / A44.1

SCALE: 1/4"=1'-0"

0 2' 4' 8'



SECTION 1 / A44.1

SCALE: 1/4"=1'-0"

0 2' 4' 8'

1. CONSTRUCTION ASSEMBLIES

1.1 TYPICAL WELFARE EXTERIOR FRAME WALL:
PREFABRICATED METAL WALL PANEL
BATT INSULATION
HORIZONTAL METAL GIRTS
6" METAL STUDS
GYP. BD. INTERIOR FINISH

1.2 TYPICAL EXTERIOR FRAME WALL:
PREFABRICATED METAL WALL PANEL
BATT INSULATION
HORIZONTAL METAL GIRTS
INTERIOR METAL LINER PANEL (U.N.O.)

1.3 TYPICAL PERIMETER MASONRY WALL:
4" CONCRETE MANSORY VENEER
2" RIGID INSULATION
8" CONCRETE MASONRY

1.4 TYPICAL SLAB FLOOR I:
COMPACTED GRAVEL BASE ON GRADE
CONCRETE SLAB

1.5 TYPICAL SLAB FLOOR II:
STRUCTURAL CONCRETE SLAB
3" CONCRETE TOPPING (OR MORTAR
BED WHERE TILE OCCURS)

1.6 TYPICAL FRAMED FLOOR:
STRUCTURAL STEEL FRAMING
STRUCTURAL METAL DECK
LIGHTWEIGHT CONCRETE FILL

1.7 TYPICAL ROOF:
STRUCTURAL STEEL FRAMING
STEEL PURLINS
BATT INSULATION
PREFABRICATED SHEET METAL ROOFING
(PAINT ALL EQUIPMENT, ROOF PENETRATIONS,
AND ALL OTHER ITEMS ON ROOF (EXCEPT
SKYLIGHTS) TO MATCH ROOFING)

1.9 TYPICAL INTERIOR MASONRY WALL:
CONCRETE MASONRY UNITS

1.10 TYPICAL CANOPY:
STRUCTURAL STEEL FRAMING
STRUCTURAL METAL DECK
SHEET METAL ROOFING

1.11 PARAPET I:
METAL STUD FRAMING
PREFABRICATED FACTORY PAINTED
SHEET METAL WALL PANEL SYSTEM
COPING PER ROOF PLAN

1.12 PARAPET II:
CONCRETE MASONRY VENEER
SHEET METAL COPING

1.14 DROPPED CEILING OR SOFFIT
LIGHT GAUGE METAL FRAMING BRACED AS
NECESSARY
GYPSUM BOARD

DATE:	REV:	DESCRIPTION:	BY:

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TRAINWASHER BUILDING
SECTIONS

CONTRACT No.: XXXX
DATE: 7-25-97
SCALE: AS NOTED
DRAWING No.: A44.1
SHEET No.: OF

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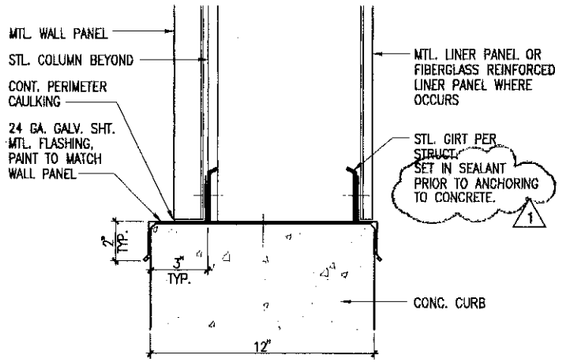
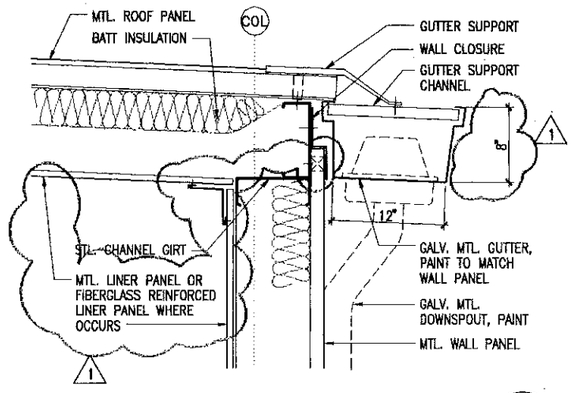


WALL AT BASE

3" = 1'-0"

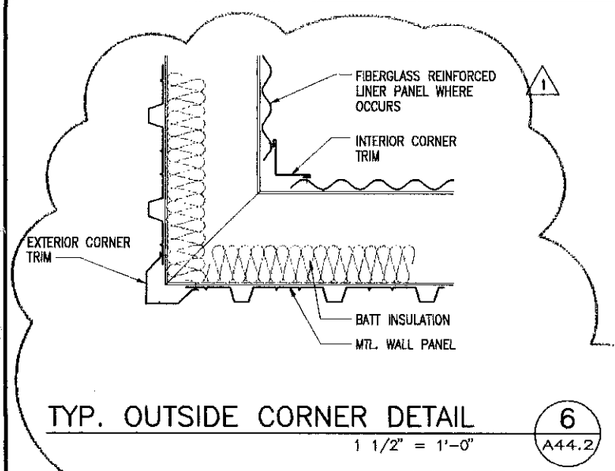
5 / A44.2



ROOF AT GUTTER

1 1/2" = 1'-0"

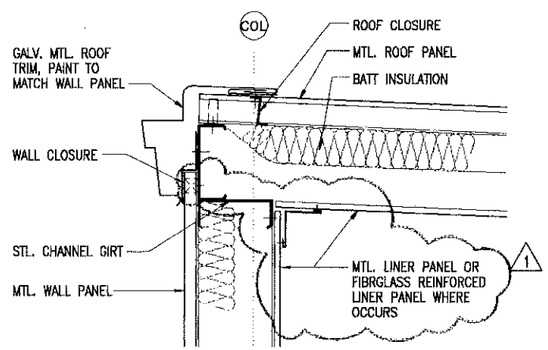
2 / A44.2



TYP. OUTSIDE CORNER DETAIL

1 1/2" = 1'-0"

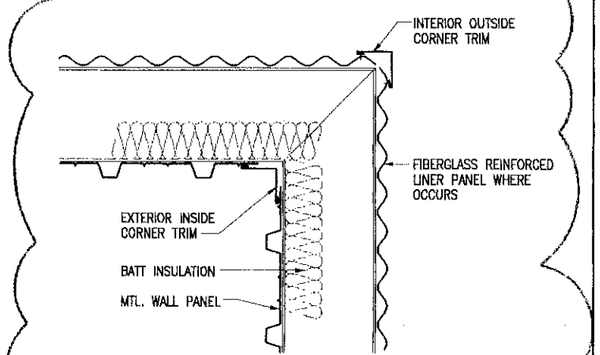
6 / A44.2



ROOF AT PEAK

1 1/2" = 1'-0"

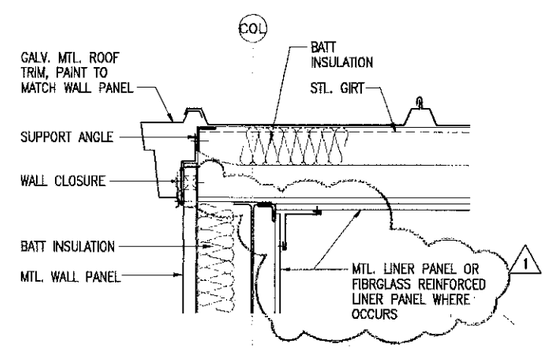
3 / A44.2



TYP. INSIDE CORNER DETAIL

1 1/2" = 1'-0"

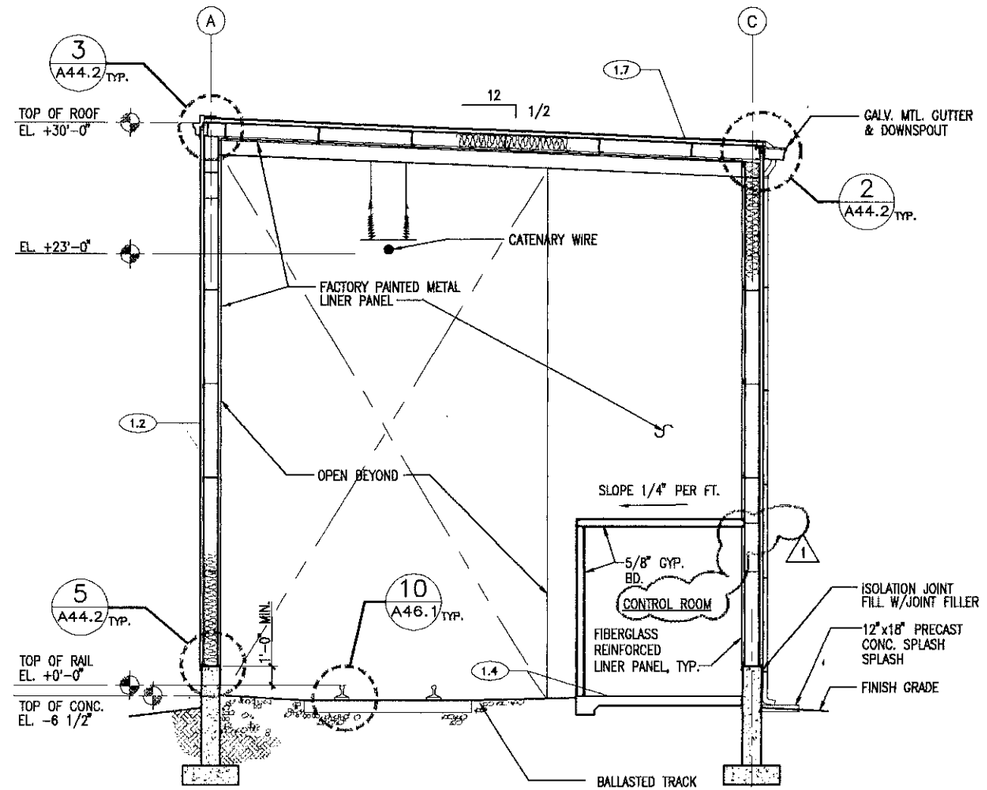
7 / A44.2



ROOF AT GABLE

1 1/2" = 1'-0"

4 / A44.2



SECTION

SCALE: 1/4"=1'-0"

0 2' 4' 8'

1 / A44.2

NOTE:

REFER TO DRAWING A44.1 FOR KEYNOTE LEGEND.

LEGEND

KEYNOTE REFERENCE

9.1 (ST-1)

COLOR AND MATERIALS REFERENCE

DATE:	REV:	DESCRIPTION:	BY:
10/15/97	1	GENERAL CORRECTIONS REVISION	

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TRAINWASHER BUILDING SECTION AND DETAILS

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DATE:	7-25-97
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SHEET No.:	OF

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