

DRAWING LIST		
DRAWING NUMBER	REV.	DESCRIPTION
		<u>ARCHITECTURAL</u>
A-1	0	MAIN FLOOR PLAN
A-2	0	FLOOR PLAN UNIT # 19924
A-3	0	FLOOR PLAN UNIT # 19925
A-4	0	CUT LIST
A-5	0	DOOR & WINDOW FRAMING
A-6	0	ROOF FRAMING PLAN
A-7	0	BUILDING SECTION & METAL PROFILE
A-8	0	ROOF PLAN, FALL PROTECTION SYSTEM
A-9	0	FALL PROTECTION ANCHOR
A-10	0	ELEVATIONS
A-11	0	GENERAL SPECIFICATIONS
A-12	0	GENERAL SPECIFICATIONS
		<u>STRUCTURAL</u>
S-1	0	FOUNDATION PLAN
S-2	0	FOUNDATION DETAILS AND SCHEDULES
		<u>MILLWORK</u>
MW-1	0	84" x 66" L-SHAPE DESK (RECEPTION AREA)
MW-2	0	KITCHEN CABINETS
MW-3	0	WASHROOM VANITY
MW-4	0	CLOSET
		<u>MECHANICAL</u>
M-1	0	MECHANICAL FLOOR PLAN
M-2	0	MECHANICAL SPECIFICATIONS AND ELECTRICAL SPECIFICATIONS
		<u>ELECTRICAL</u>

REV.	GENERAL NOTES	
	1	
	2	
	3	
	4	
	5	
	6	

WORKING DRAWINGS DISTRIBUTION LIST - YELLOWHEAD			
	NAME	POSITION	SIGN./INT.
1	JACQUES BANGA	QUALITY CONTROLLER	
2	KEITH	FRAMING	
3	JOHN	SET-UP/LAYOUT	
4	CHESTER	CUTTING	
5	JIM ALLEN	FLOORS	
6	BOB	SHOP FOREMAN	
7	CESAR	FINISHING	
8	TED/CHRIS/JOEL	ELECTRICAL	
9	HOWIE	PLUMBING/HEATING	
10	MIGUEL	SHEET METAL	
11	KEN	SHIPPING/RECEIVING	
12	LOI	SHEATHING/DRYWALL	
13	BRIAN	QUALITY CONTROL MANAGER	
14	HOA	SET-UP/LAYOUT	
15	RYAN/DAN	SERVICE	
16	JOYCE	PURCHASER	
17	ANGELA HAUK	OPERATIONS ADMINISTRATOR	
18	MIKE	SHEATHING/DRYWALL/SHEET METAL	
19	VINCE MEIER	LOGISTICS MANAGER	
20	BRAD	SHEET METAL	
21	RON ADAMS	MECHANICAL	

Northgate

Industries Ltd.

12345–121 STREET, EDMONTON, ALBERTA T5L 4Y7

PHONE: (780) 448–9222 FAX: (780) 448–9508

24' x 36' OPERATOR'S BUILDING

UNITS: 19924 - 19925

CCS MIDSTREAM SERVICES

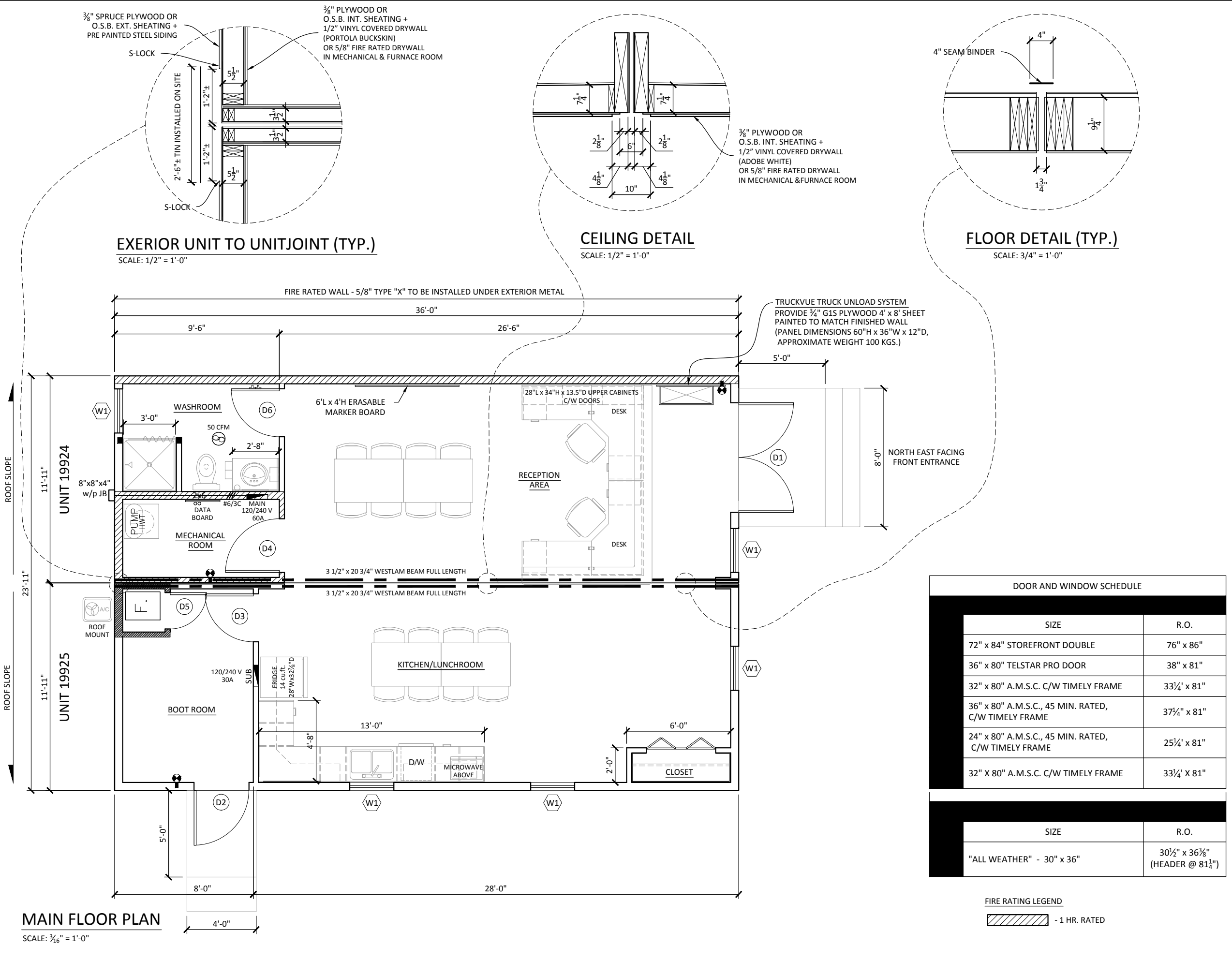
ORIGINAL SET

ISSUE DATE: APRIL 12, 2012

BECKER

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA T5S 1H8
TEL: 483-0120 FAX: 486-1596



BECKER

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate

12345-121 STREET, EDMONTON, ALBERTA TEL 4Y7

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

no.	description	date	checked
	revisions		

detail legend

A
B
C

DETAIL NUMBERS
TO

A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.

seal

PROFESSIONAL ENGINEER
ALBERTA
PERMIT # 3557
JULY 19, 2012

units

19924 – 19925

project

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title

MAIN FLOOR PLAN

scale

AS SHOWN

drawn by

FJD

reviewed by

OEZ

date

MARCH 23/2012

all dimensions are in

INCHES

drawing no.

A-1

REV.

0

project no.

485-1209

DOOR AND WINDOW SCHEDULE

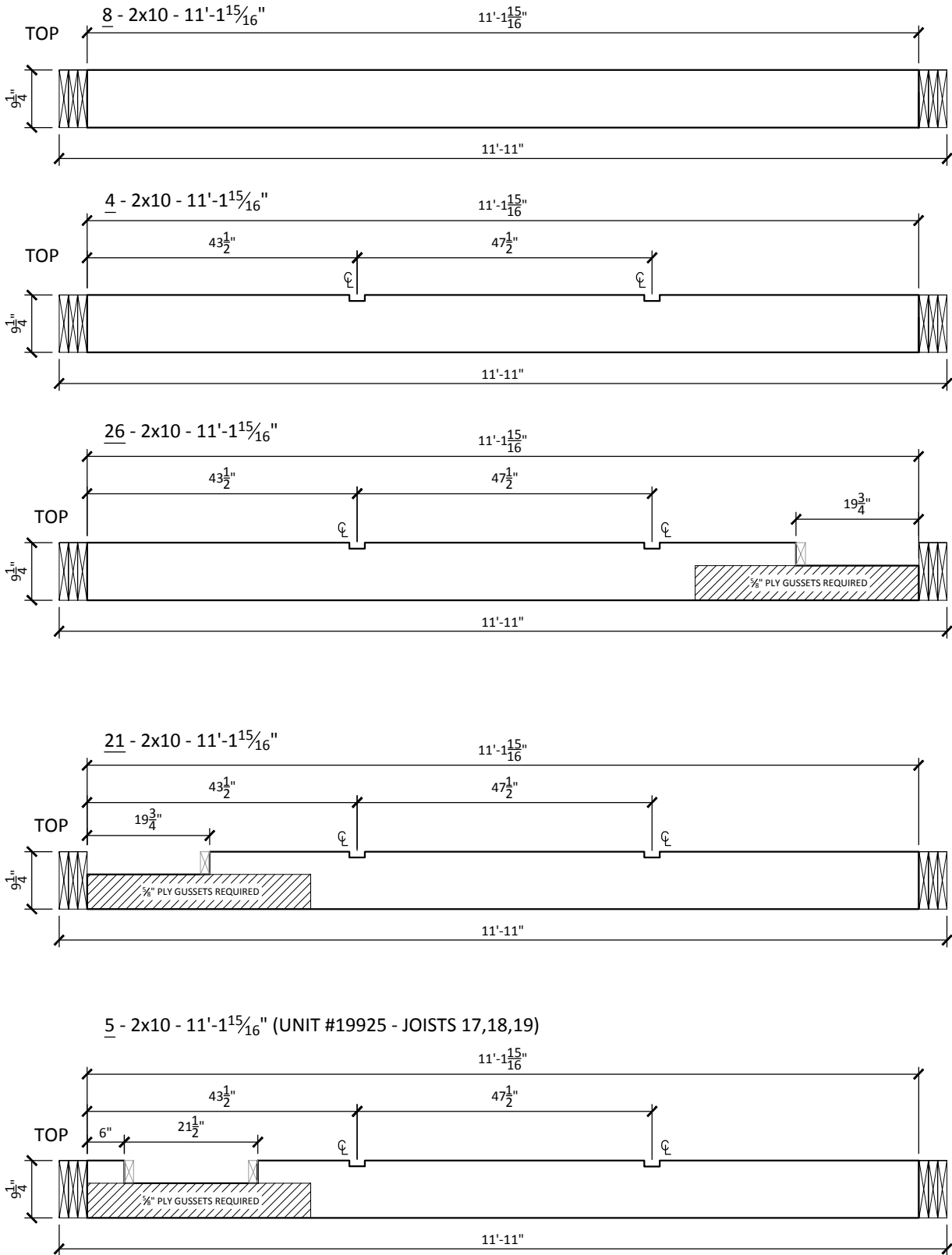
SIZE	R.O.
72" x 84" STOREFRONT DOUBLE	76" x 86"
36" x 80" TELSTAR PRO DOOR	38" x 81"
32" x 80" A.M.S.C. C/W TIMELY FRAME	33¼' x 81"
36" x 80" A.M.S.C., 45 MIN. RATED, C/W TIMELY FRAME	37¼' x 81"
24" x 80" A.M.S.C., 45 MIN. RATED, C/W TIMELY FRAME	25¼' x 81"
32" X 80" A.M.S.C. C/W TIMELY FRAME	33¼' X 81"

SIZE	R.O.
"ALL WEATHER" - 30" x 36"	30½" x 36⅜" (HEADER @ 81¼")

FIRE RATING LEGEND

- 1 HR. RATED

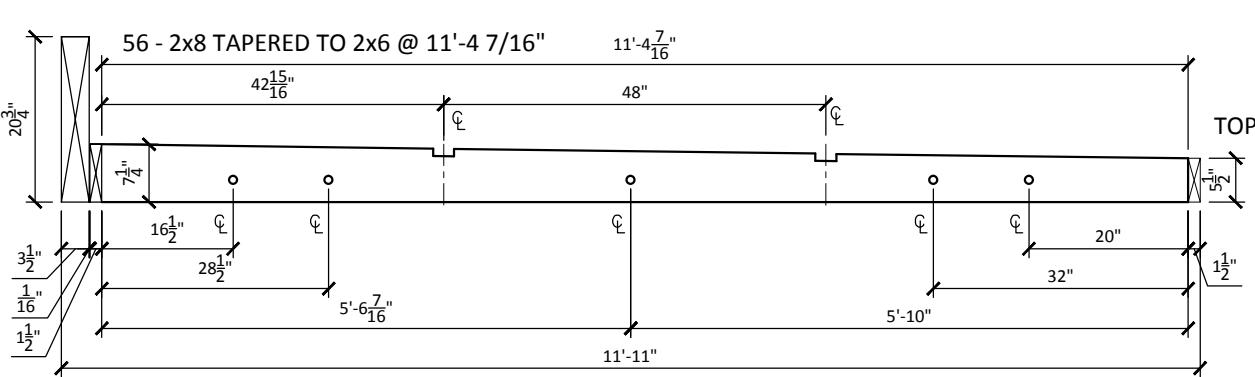
FLOOR JOISTS



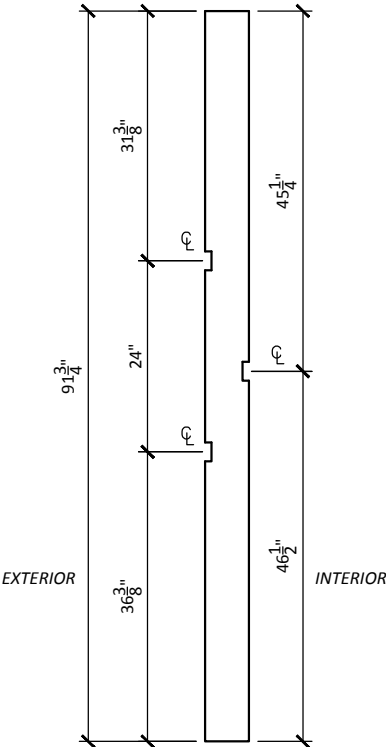
CUT LIST

SCALE: 1/2" = 1'-0"

ROOF JOISTS



STUDS



100 REQUIRED - 2x6 - 91 3/4"

46 REQUIRED - 2x4 - 91 3/4"

BECKER

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate Industries Ltd.

12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

no.	description	date	checked
	revisions		

detail legend

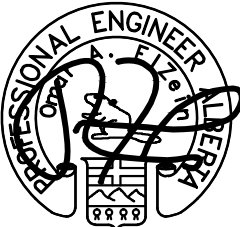


DETAIL NUMBERS

A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.

TO

seal



PERMIT # 3557
JULY 19, 2012

units

19924 - 19925

project

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title

CUT LIST

scale

AS SHOWN

drawn by

FJD

reviewed by

OEZ

date

MARCH 23/2012

all dimensions are in

INCHES

drawing no.

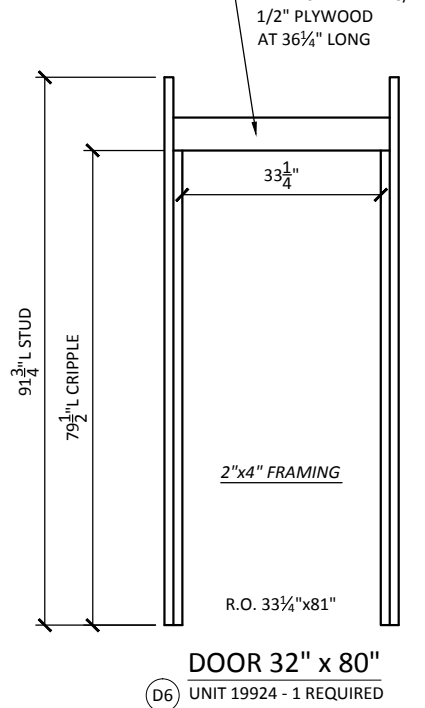
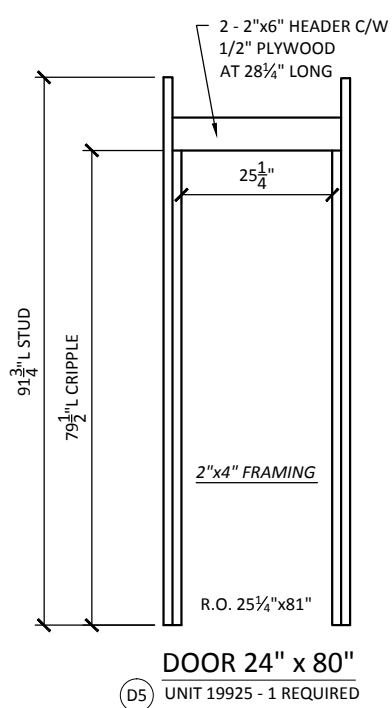
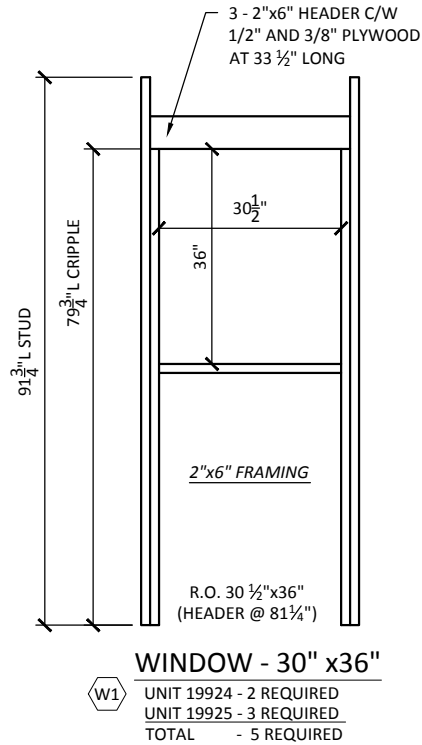
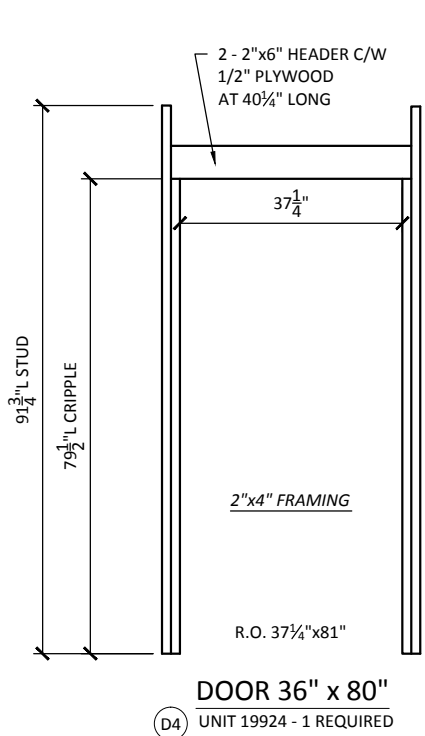
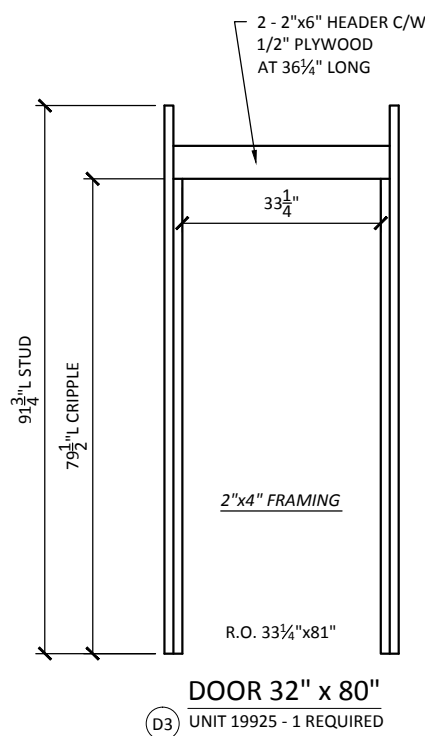
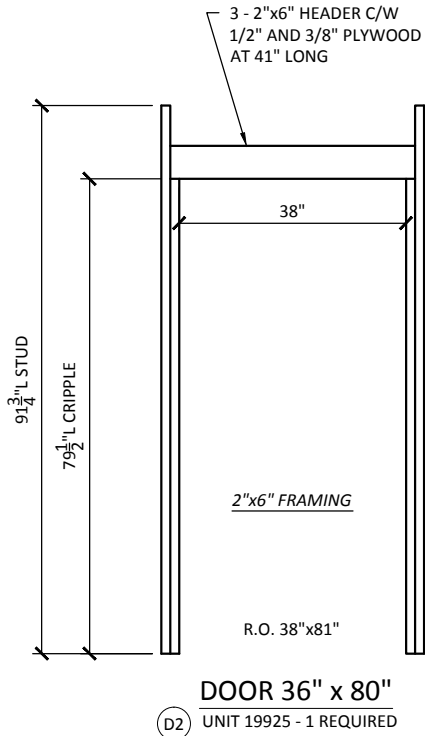
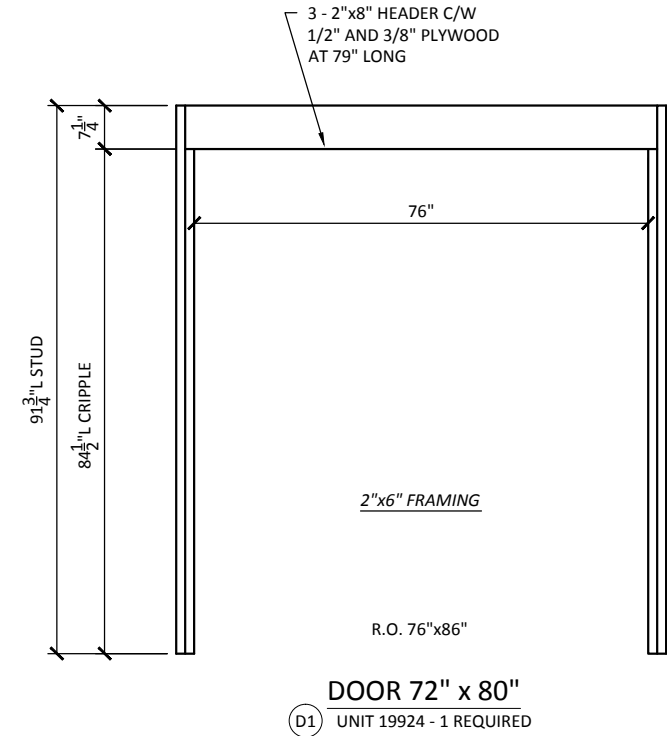
A-4

REV.

0

project no.

485-1209



DOOR & WINDOW FRAMING

SCALE: 3/8" = 1'-0"

BECKER
Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596



12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

no.	description	date	checked
	revisions		

detail legend	A DETAIL NO.
	B LOCATION DWG. NO.
DETAIL NUMBERS	C DETAIL DWG. NO.
	TO

seal

PERMIT # 3557
JULY 19, 2012

units

19924 – 19925

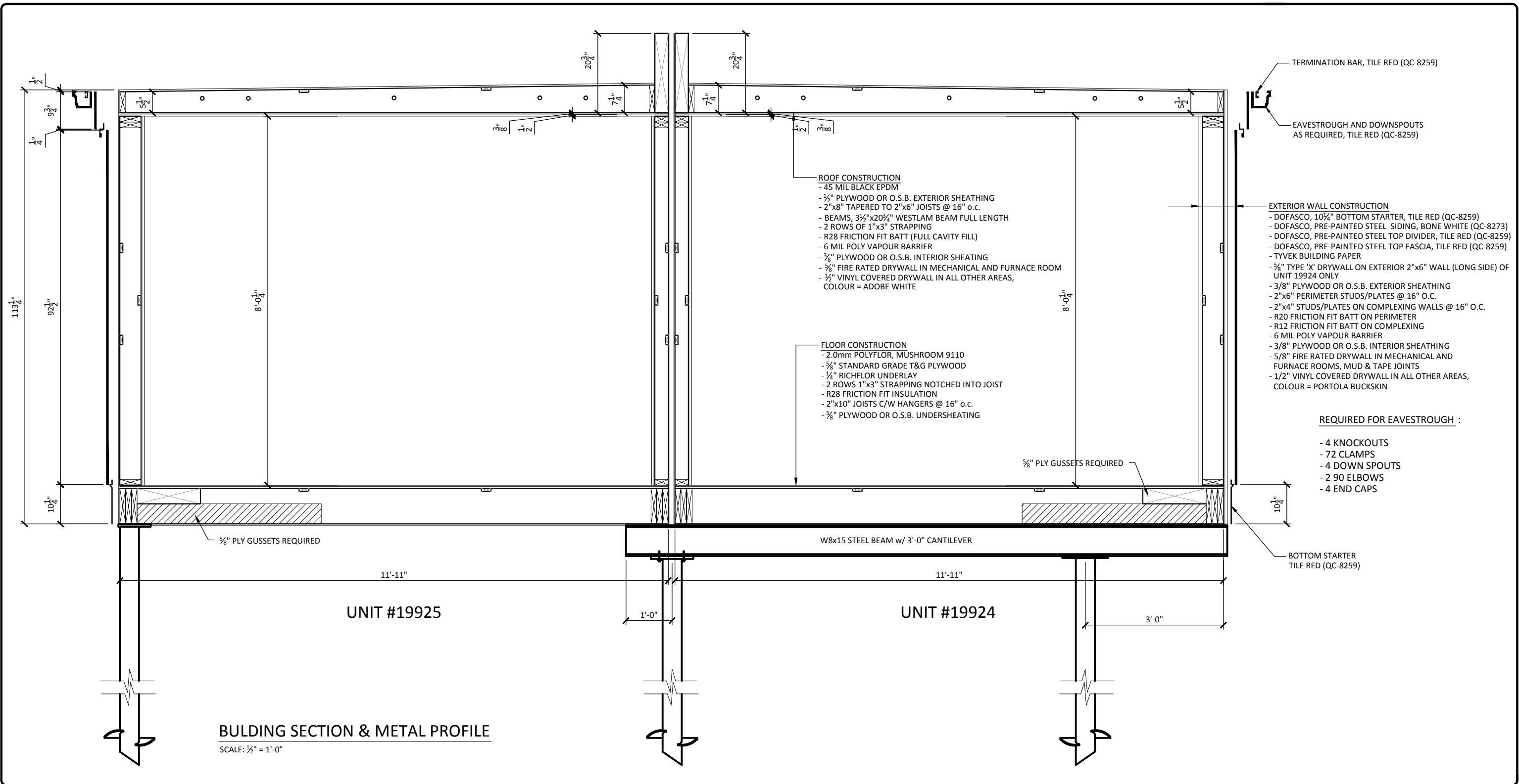
project

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW


drawing title

DOOR & WINDOW FRAMING

scale	AS SHOWN	
drawn by	FJD	drawing no.
reviewed by	OEZ	REV.
date	MARCH 23/2012	A-5 0
all dimensions are in	INCHES	project no.
		485-1209




BUILDING SECTION & METAL PROFILE
SCALE: 1/2" = 1'-0"



Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596






12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

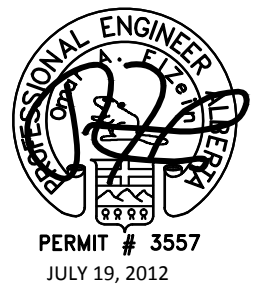
detail legend

	A DETAIL NO.
	B LOCATION DWG. NO.
	C DETAIL DWG. NO.
DETAIL NUMBERS	TO

units from - to:

19924 - 19925

seal:



project:

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title:

BUILDING SECTION & METAL PROFILE

scale AS SHOWN

all dimensions are in IMPERIAL

drawn by
FJD

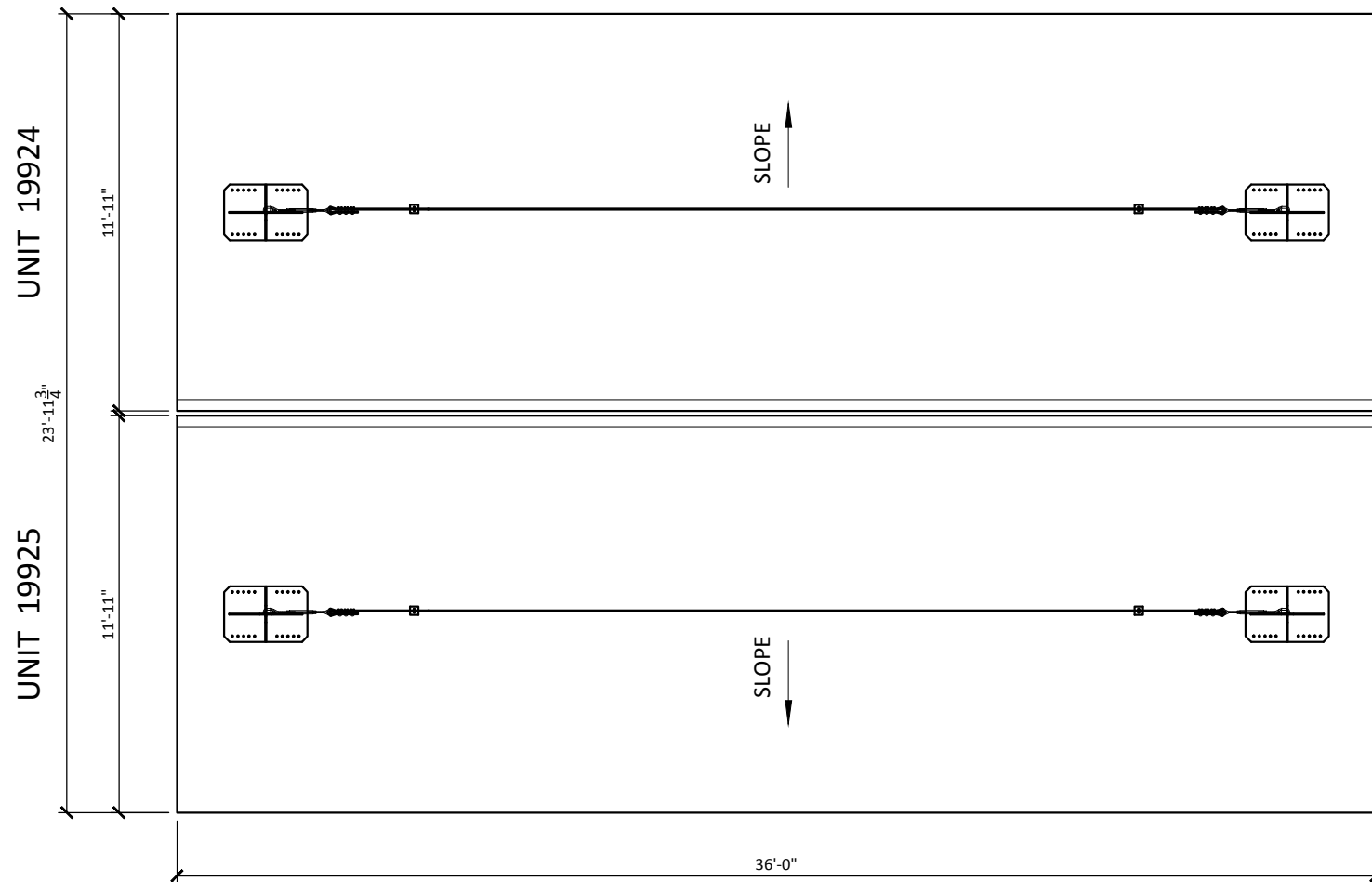
reviewed by
OEZ

date
MAR. 23/12

drawing no.
A-7

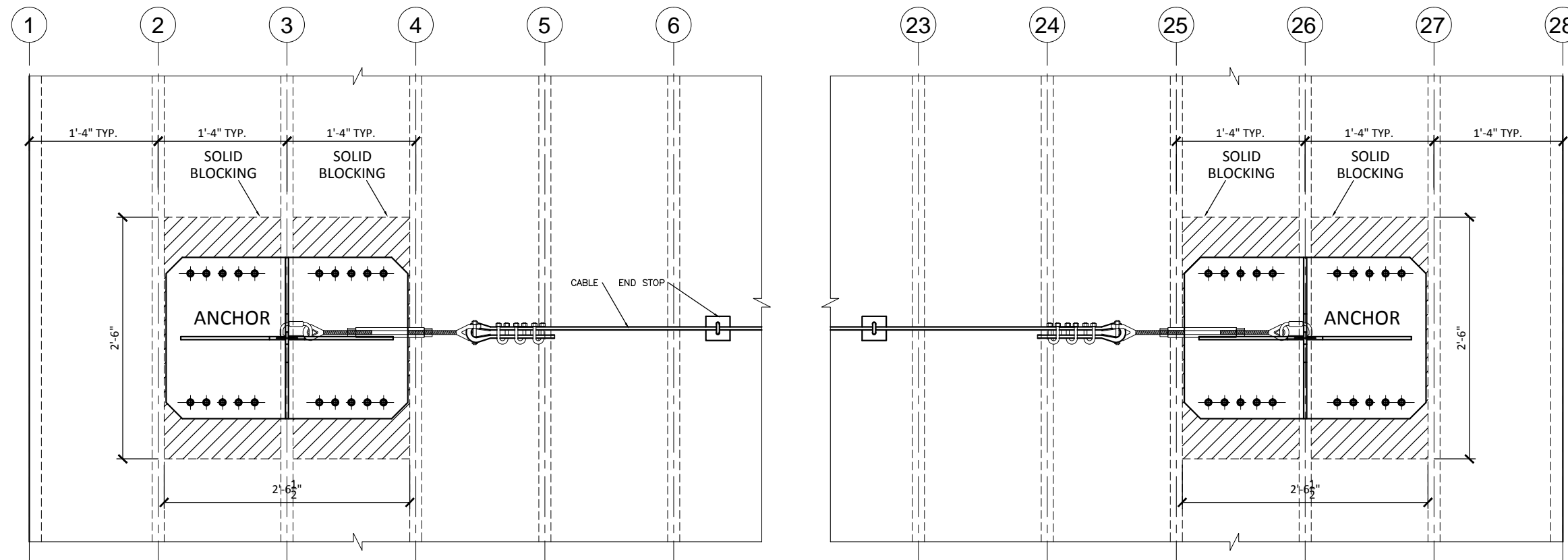
Rev.
0

project no.
485-1209



ROOF PLAN

SCALE: $\frac{3}{16}$ " = 1'-0"



FALL PROTECTION SYSTEM (TYP.)

SCALE: $\frac{3}{4}$ " = 1'-0"

BECKER

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate
Industrial Bldg.

12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

no.	description	date	checked
	revisions		

detail legend

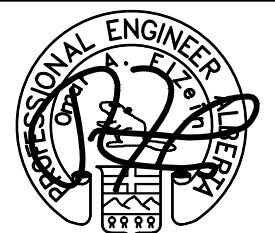


DETAIL NUMBERS

A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.

TO

seal



PERMIT # 3557

JULY 19, 2012

units

19924 - 19925

project

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title

ROOF PLAN
FALL PROTECTION SYSTEM (TYP.)

scale

AS SHOWN

drawn by

FJD

reviewed by

OEZ

date

MARCH 23/2012

all dimensions are in

INCHES

drawing no.

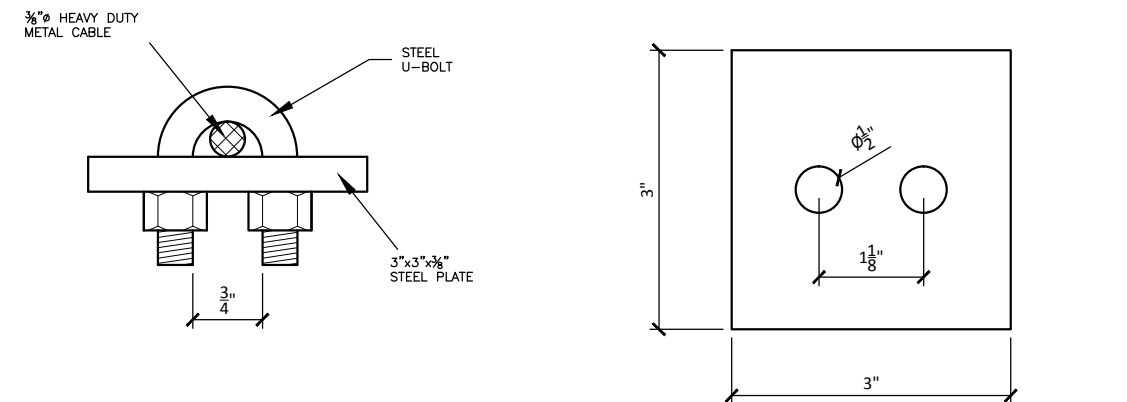
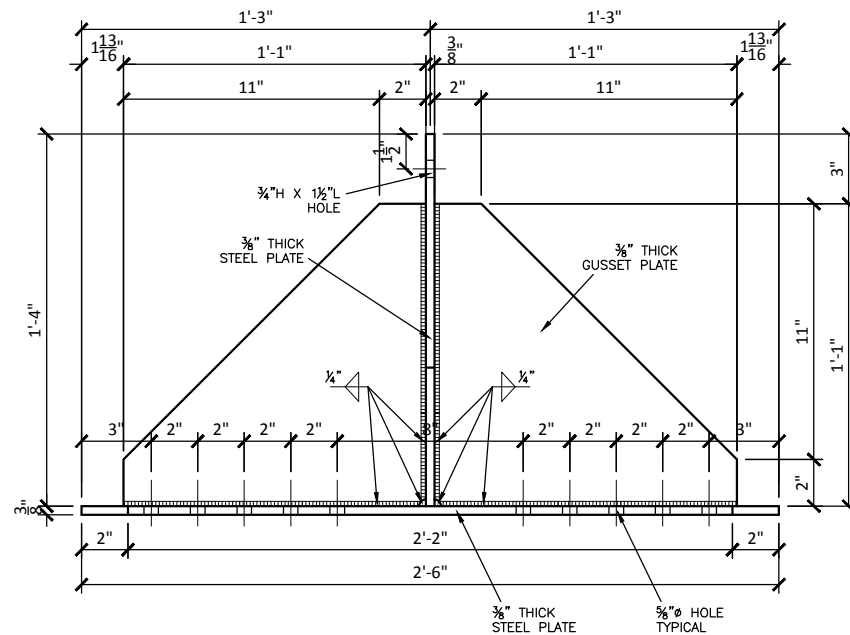
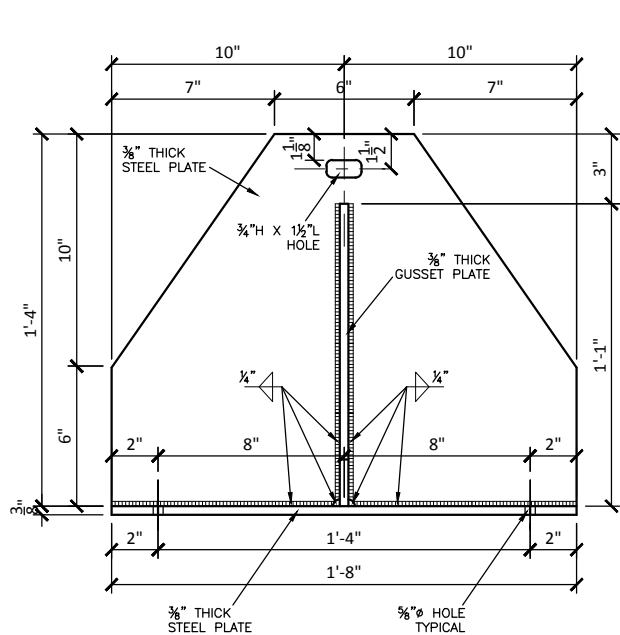
A-8

REV.

0

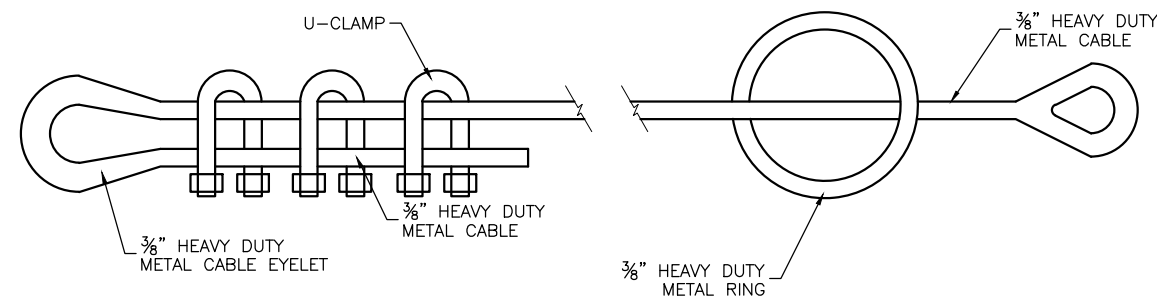
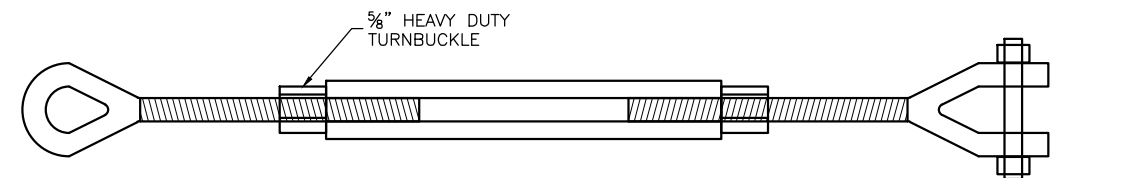
project no.

485-1209



FALL PROTECTION END STOP DETAIL (TYP.)

SCALE: 6" = 1'-0"

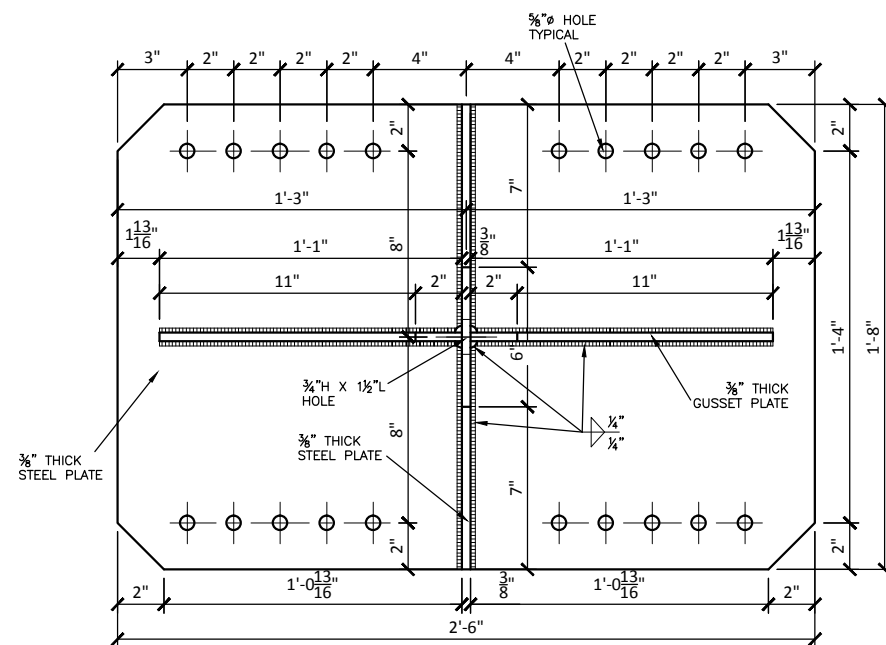


FALL PROTECTION CABLE ASSEMBLY (TYP.)

SCALE: 3" = 1'-0"

FALL PROTECTION ANCHOR (TYP.)

SCALE: 1 1/2" = 1'-0"



BECKER
Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers
10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate Industries Ltd.
12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

no.	description	date	checked

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

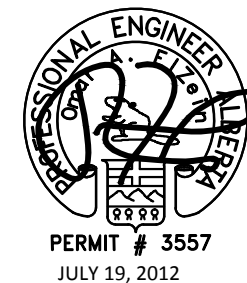
NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

detail legend
A
B
C
DETAIL NUMBERS TO

units from - to:

19924 - 19925

seal:



project:
CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title:
FALL PROTECTION ANCHOR (TYP.)

scale AS SHOWN

all dimensions are in IMPERIAL

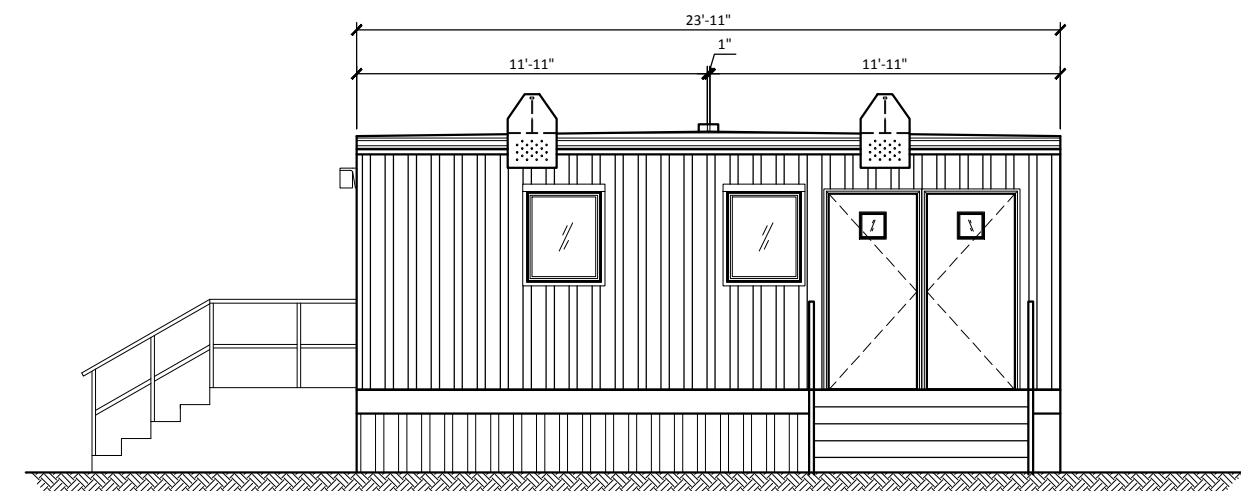
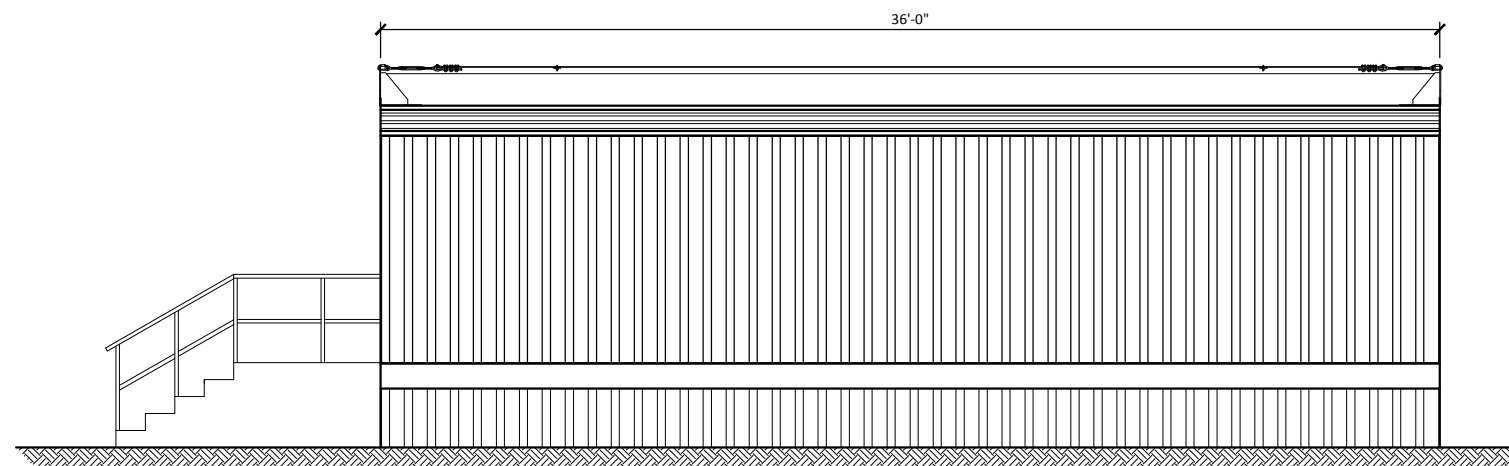
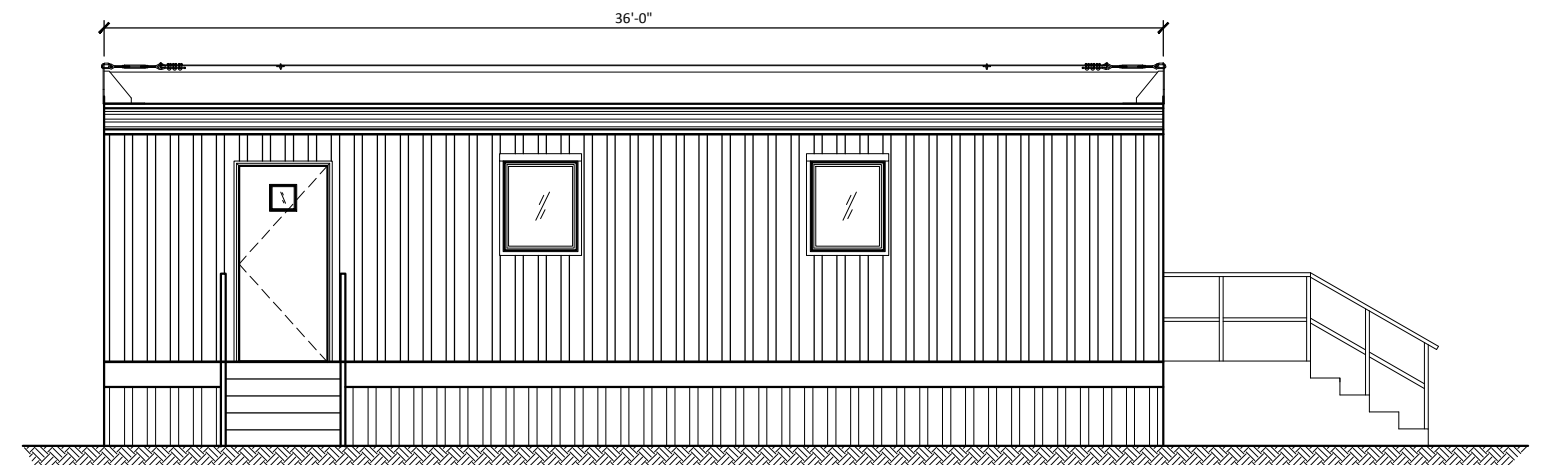
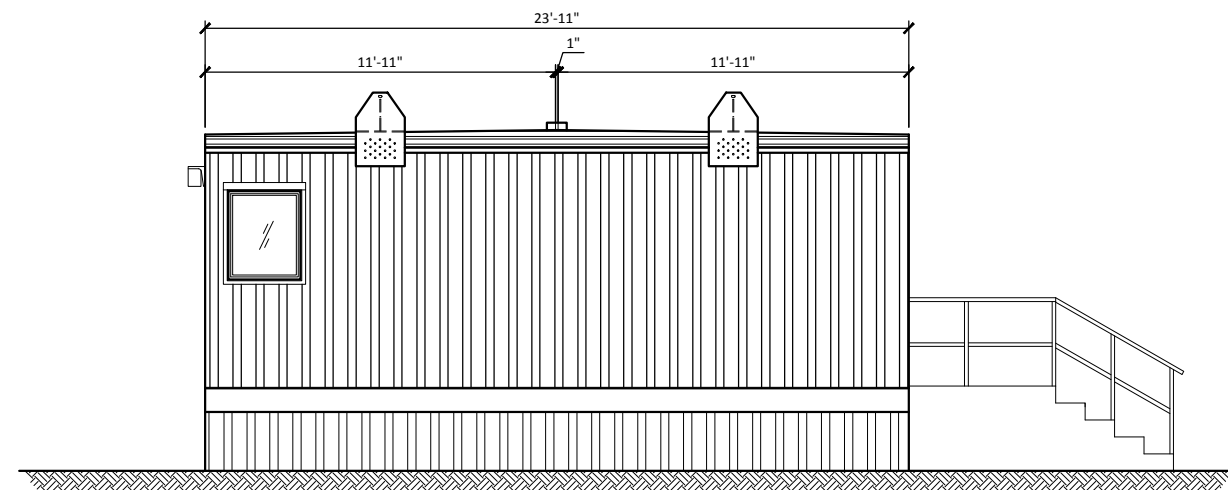
drawn by
FJD

reviewed by
OEZ

date
MAR. 23/12

drawing no.
A-9

project no.
485-1209



ELEVATIONS

SCALE: N.T.S.

BECKER

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596



12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

[illegible]

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

detail legend



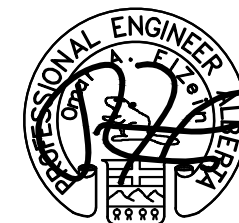
DETAIL NUMBERS

A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.
TO

units from - to:

19924 - 19925

seal:



PERMIT # 3557
JULY 19, 2012

project:

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title:

ELEVATIONS

scale AS SHOWN

all dimensions are in IMPERIAL

drawn by
FJD

reviewed by
OEZ

date
MAR. 23/12

drawing no.	Rev.
A-10	0

project no.

485-1209

BUILDING SPECIFICATIONS For

CCS MIDSTREAM SERVICES
24' x 36' OPERATORS BUILDING
VALLEYVIEW
UNITS 19924 - 19925

1.0 CONTRACTUAL AND GENERAL INFORMATION

1.1 PRECEDENCE OF SPECIFICATIONS

The following specifications shall take precedence over the drawings, other tendering documents, any client supplied data and any previously issued documents. Specification “CCS2436Operator-r0.spc” shall be the essence of the material supplied and shall form part of the contract.

1.2 APPROVED EQUIPMENT

All plumbing fixtures and fittings, mechanical equipment, electric devices, fixtures and equipment shall be approved for the use intended.

1.3 MATERIAL SUBSTITUTIONS

Northgate and or its suppliers reserve the right to substitute any or all specified material with an item of equal or superior quality for delivery purposes.

1.4 DEVIATIONS FROM SPECIFICATIONS

Northgate will not be responsible for any personal interpretation of these specifications. Any changes to the proposed building prior to or during construction will result in additional costs to the client.

1.5 CLIENT ACCEPTANCE

The client is required to accept, by signature, the drawings and specifications and any related schedules prior to construction of the proposed building.

1.6 COLOUR MATCHING

Northgate shall not be responsible for any discrepancies of colour or pattern match due to supplier and manufacturing tolerances.

1.7 SITE CONDITIONS

The client is wholly and solely responsible for all aspects of the site including all renovations to existing building and all fire separations.

1.8 PERMITS

The client is responsible for all development, building, water, sewer, gas, electrical, occupancy and environmental permits and any related inspections and/or fees.

1.9 CODE COMPLIANCE

The building as described in “CCS2436Operator- r0.spc” shall comply to the applicable parts and the current editions of the following;

Structural	-	Alberta Building Code - Part 10
Electrical	-	Canadian Electrical Code
	-	Canadian Standards Association
Plumbing	-	Alberta Plumbing Regulations
Gas	-	Canadian Gas Association

2.0 ARCHITECTURAL

2.1 PHYSICAL CHARACTERISTICS

Outside length	=	36' - 0” excluding fixtures, trims and accessories
Outside width	=	23' - 11” excluding fixtures, trims and accessories

2.2 STRUCTURAL

Modular wood framed units fully erected and tested in a manufacturing facility and designed to complex as one building upon installation.

2.3 DESIGN CRITERIA

Structural design based on the following criteria:

Live floor load	=	100 PSF
Live roof load	=	44 PSF
Structural ceiling height	=	8' - 0 1/4”
Finish ceiling height	=	8' - 0 1/4”

2.4 FOUNDATION

scope	-	refer to 5.0 INSTALLATION SCOPE OF WORK
	-	suitable size and quantity of screw piles to be determined by an engineer

2.5 SKIRTING

scope	-	to an average height of 24” from grade to the underside of the floor framing system
exterior finish	-	30 gauge pre-painted steel siding c/w Mesa pattern to match main siding on building
framing	-	2” x 4” #2 or better spruce (bottom plate only to be PWF)
venting	-	12” x 8” screened vents, 1 for every 250ft²
access	-	2 only, 36”x24” metal clad access hatch at plumb. side c/w hinge

2.6 STEPS AND LANDINGS

scope	-	total rise based on maximum height as noted in 2.4 and 2.5 plus the depth of the floor framing systems
	-	all steps/landings c/w handrail
material	-	alum. construction
exits	-	1 only, 4' wide x 5' deep landing c/w 4' wide stair and handrail system
	-	1 only, 8' wide x 5' deep landing c/w 8' wide stair and handrail system

2.7 FLOORS (from exterior to interior)

all lumber	-	kiln dried, SPF, #2 or better
undersheathing	-	3/8” spruce plywood or O.S.B. glued and stapled
joist & plates	-	2” x 10” at 16” o.c. c/w joist hangers
	-	3 ply plates on all sides
insulation	-	R28 friction fit batt
strapping	-	1” x 3” spruce notched into joists @ 48” - 2 rows
sub-floor	-	5/8” standard grade T&G plywood glued, screwed under 1/4” richflor glued, screwed and sanded c/w levelling compound to accept finish flooring
finish	-	Polyflor, 2.0mm weld seam linoleum, fully adhered in all areas, run lino lengthways, colour = Mushroom 9110
unit/unit joints	-	seam binder

2.8 EXTERIOR WALLS (from exterior to interior)

exterior finish	-	Dafasco , pre-painted bottom starter fascia c/w 10-1/4” finish profile, stapled and screwed - Tile Red QC 825 Dafasco , pre-painted steel siding c/w deluxe Mesa pattern, S-lock, to bottom of top fascia, stapled and screwed, wrapped Bone White QC 8273 Dafasco , pre painted steel top fascia c/w deluxe Mesa Pattern - Tile Red QC 8259 and 2” top divider - Tile Red QC 8259
corners	-	all exterior steel is 30 gauge
	-	all exterior trims shall be colour swatch to the fascias
	-	all screws are HA8 #14 x 1” colour swatch to the applicable metal
	-	all studs shall be strapped to floor and roof c/w 28 gauge galvanised straps at 1-1/4” x 16”
	-	all walls shall be lag bolted to floor and roof at 32” o.c. intervals c/w 3/8” x 6” lag bolts
fire rating	-	5/8” type “X” drywall on exterior of unit to provide a one hour rating, as shown on drawings
sheathing	-	3/8” spruce plywood or O.S.B. glued and stapled on all four sides
studs/plates	-	2” x 6” spruce at 16” o.c on all exterior perimeter walls
	-	2” x 4” spruce at 16” o.c. on complexing walls
strapping	-	3 rows of # 3 or better SPF 1” x 3” spruce notched into studs
	-	2 on exterior for plywood sheathing joint
	-	1 on interior for plywood sheathing joint at 48” AFF
building paper	-	Tyvek building wrap around exterior of unit
insulation	-	R20 friction fit batt on perimeter
	-	R12 friction fit batt on complexing
vapour barrier	-	6-mil polyethylene c/w all joints and penetrations sealed with accoustical caulking
interior sheathing	-	3/8” spruce plywood or O.S.B. stapled
finishes	-	5/8” fire rated drywall in mechanical and furnace room, mud and tape joints
	-	1/2” vinyl covered drywall in all other areas, colour = Portola Buckskin
trim	-	Portola Buckskin colour swatch trims
	-	4” Resilient Cove baseboard, colour = Fawn #80

BECKER

Becker, El Zein and Associates Ltd.

Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate Industries Ltd.

12345–121 STREET, EDMONTON, ALBERTA T5L 4Y7

no.	description	date	checked

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

detail legend

A

B

C

DETAIL NUMBERS

A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.

TO

units from - to:

19924 - 19925

seal:

PROFESSIONAL ENGINEER
ALBERTA
O.P.A. ELZEIN
P.E.

PERMIT # 3557
JULY 19, 2012

project:
CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title:
GENERAL SPECIFICATIONS

scale AS SHOWN

all dimensions are in IMPERIAL

drawn by
FJD

reviewed by
OEZ

date
MAR. 23/12

drawing no.
A-11

Rev.
0

project no.
485-1209

2.9 PARTITIONS

studs/plates	-	2" x 4" spruce at 16" o.c.
insulation	-	R12 friction fit batt
finish	-	to match exterior walls as noted in 2.8
trim	-	to match exterior walls as noted in 2.8

2.10 ROOF (from exterior to interior)

exterior finish	-	45-mil black EPDM, fully adhered
sheathing	-	1/2" spruce plywood or O.S.B., glued and screwed
joists/plates	-	2"x8" tapered to 2"x6" spruce @ 16" o.c.
beams	-	2 only, 3 ½" x 20 ¾" Westlam beam full length
strapping	-	2 rows of 1"x3" spruce notched into joists
insulation	-	R28 friction fit batt (full cavity fill)
vapour barrier	-	6-mil polyethylene c/w all joints and penetrations sealed with accoustical caulking
interior sheathing	-	3/8" spruce plywood or O.S.B. - stapled to joists
finish	-	5/8" fire rated drywall in mechanical and furnace room, mud and tape joints
	-	1/2" vinyl covered drywall c/w colour swatch trims in all other areas, colour = Adobe White

Travel Restraint	-	4 only, travel restraint brackets, roof mount
Safety cable package	-	2 only, 30'-10" safety cable packages
eaves trough and	-	eaves trough and downspouts as required, colour = Tile Red QC 8259
downspouts		

2.11 EXTERIOR DOORS

main entrance (D1)	-	1 only, 72" x 84"storefront double, weather strip package
entry/exit (D2)	-	1 only, 36" x 80" Telstar Pro, weather strip package and 10" x 10" laminated safety glass door lites - painted Bone White
hardware	-	Tell closers
	-	Tell panic hardware c/w Tell keyed cylinders on all exterior
entry/exit doors		
keying	-	all exterior doors keyed alike c/w master key

2.12 INTERIOR DOORS

scope	-	45 min. labelled door on mechanical room and furnace room
	-	as shown, solid core Albany Maple doors c/w floor door stops where applicable
	-	pre-painted steel Tell "Timely" frames on all doors, colour = Cocoa
hardware	-	push/pull hardware on boot room door
	-	privacy lever lockset on washroom
	-	storeroom lever locksets on mechanical and furnace room
	-	appropriate signage on all doors

typical

- 1 only, 32" x 80" Albany Maple solid core doors c/w Timely metal frame for boot room door
- 1 only, 36" x 80" Albany Maple solid core door rated 45 min., c/w Timely metal frame for mechanical room
- 1 only, 32" x 80" Albany Maple solid core door c/w Timely metal frame for washroom
- 1 only, 24" x 80" Albany Maple solid core door rated 45 min., c/w Timely metal frame for furnace room
- 1 only, 4'-0"W bi-fold door in closet

2.13 WINDOWS

exterior
type

- All Weather double-glazed, White PVC framed slider c/w fly screen
- 5 only, windows at 30" x 36"
- **Bonham Cherry** jamb extensions and casing
- 30 gauge pre-painted drip cap
- 2" Hunter Douglas **Fawn #80** aluminium blinds

2.14 MILLWORK AND ACCESSORIES

millwork

- all millwork is as shown on drawing
- all millwork shall be **Cherry Duramine 381** constructed c/w **Cherry Duramine 381** edging, doors, and adjustable shelves
- all countertops shall be **Ebony Fusion**, post-formed plastic laminate
- all base cabinets shall be 24"D x 36" A.F.F. c/w space allowance for appliances and basins
- all vanities shall be 22 1/2"D x 32" A.F.F.
- all door/drawer pulls shall be "C" type brushed aluminium
- all hinges shall be recessed European
- all 28"L x 34"H x 13.5"D double cabinet to be installed 1 ft. below ceiling
- 1 only, vanity
- 1 only, double robe hook
- 1 only, double roll toilet paper dispenser
- 1 only, 18" x 24" mirror
- 1 only, paper towel dispenser
- 1 only, liquid soap dispenser
- 1 only, 48"x78" White nylon shower curtain c/w rod
- as shown base and upper cabinets
- 1 only, 14 cu.ft fridge
- 1 only, 24" dishwasher
- 1 only, 1.0 cu.ft. microwave
- 4 only, 30"x48" tables
- 16 only, chairs
- 1 only, 6'L x 4'H erasable marker board
- 1 only, hat shelf and hanging rod in closet
- 2 only, 84"x66"x30"H L-shape desk c/w drawers and 14"
- 3 only, 28"L x 34"H x 13.5"D double cabinet c/w doors
- 2 only, office chairs

washroom

kitchen/lunchroom

reception area
raised back

2.15 IDENTIFICATION

- decals
- labels
- 2 only, NORTHGATE decals on complex
- 1 only, Manufactures serial plate per unit
- 1 only, Alberta Labour Part 10 label per unit
- 1 only, CSA label for electrical features only per unit
- 1 only, gas and plumbing Inspection Group label on applicable units

BECKER

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate Industries Ltd.

12345—121 STREET, EDMONTON, ALBERTA T5L 4Y7

no.	description	date	checked

revisions

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

detail legend

A

B

C

DETAIL NUMBERS

A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.

TO

units from - to:

19924 - 19925

seal:

PROFESSIONAL ENGINEER
ALBERTA
OPERA A. ELZEIN
PERMIT # 3557
JULY 19, 2012

project:
CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title:
GENERAL SPECIFICATIONS

scale AS SHOWN

all dimensions are in IMPERIAL

drawn by
FJD

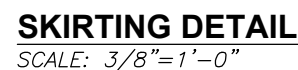
reviewed by
OEZ

date
MAR. 23/12

drawing no.
A-12

Rev.
0

project no.
485-1209



NOTE
ALL PLATES 1/2" THICK MIN.

NOTE:
PILING CONTRACTOR TO PROVIDE
PILE INFORMATION TO ACHIEVE CAPACITY.

1-ALL NATIVE CLAY SUBBASE SOIL SHALL BE PREPARED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

2-ALL CLAY FILL BELOW THE BUILDING SHOULD BE PLACED IN 6 INCH LIFTS AND BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.

3-GRAVEL BASE SHALL BE A MINIMUM OF 8 INCH THICK OF APPROVAL GRAVEL MATERIAL PLACED BELOW THE BUILDING, COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY, AND SLOPED AWAY FROM THE BUILDING.

4-THE ABOVE GRAVEL BASE SHOULD BE TESTED, AND PROVIDE A MINIMUM (UNFACTORED) SOIL BEARING CAPACITY OF 3,000 PSF.

5-ALLOWING 1" BETWEEN UNITS UPON FINISH DIMENSIONS.

PILE SCHEDULE		
MARK	DIAM. B.I.C.	W.S.D. MAXIMUM CAPACITY
P-1	4.5"	15 Kips
P-2	4.5"	20 Kips

BECKER

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate Industries Ltd.			
12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7			
no.	description	date	checked
	revisions		

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

detail legend



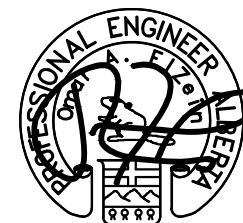
DETAIL NUMBERS

A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.
TO

units from - to:

19924 - 19925

seal:



PERMIT # 3557
JULY 19, 2012

project:

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawn by
FJD

reviewed by
OEZ

MAR. 23/12

drawing no.	Rev.
S-2	0

project no.

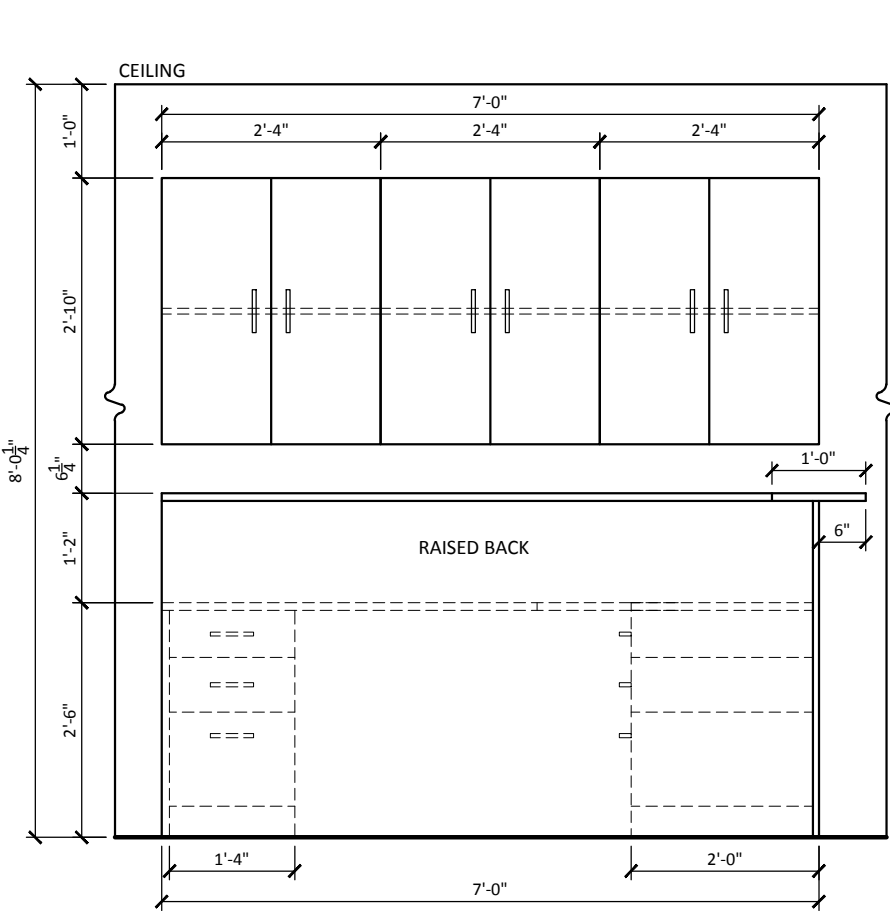
485-1209

drawing title:

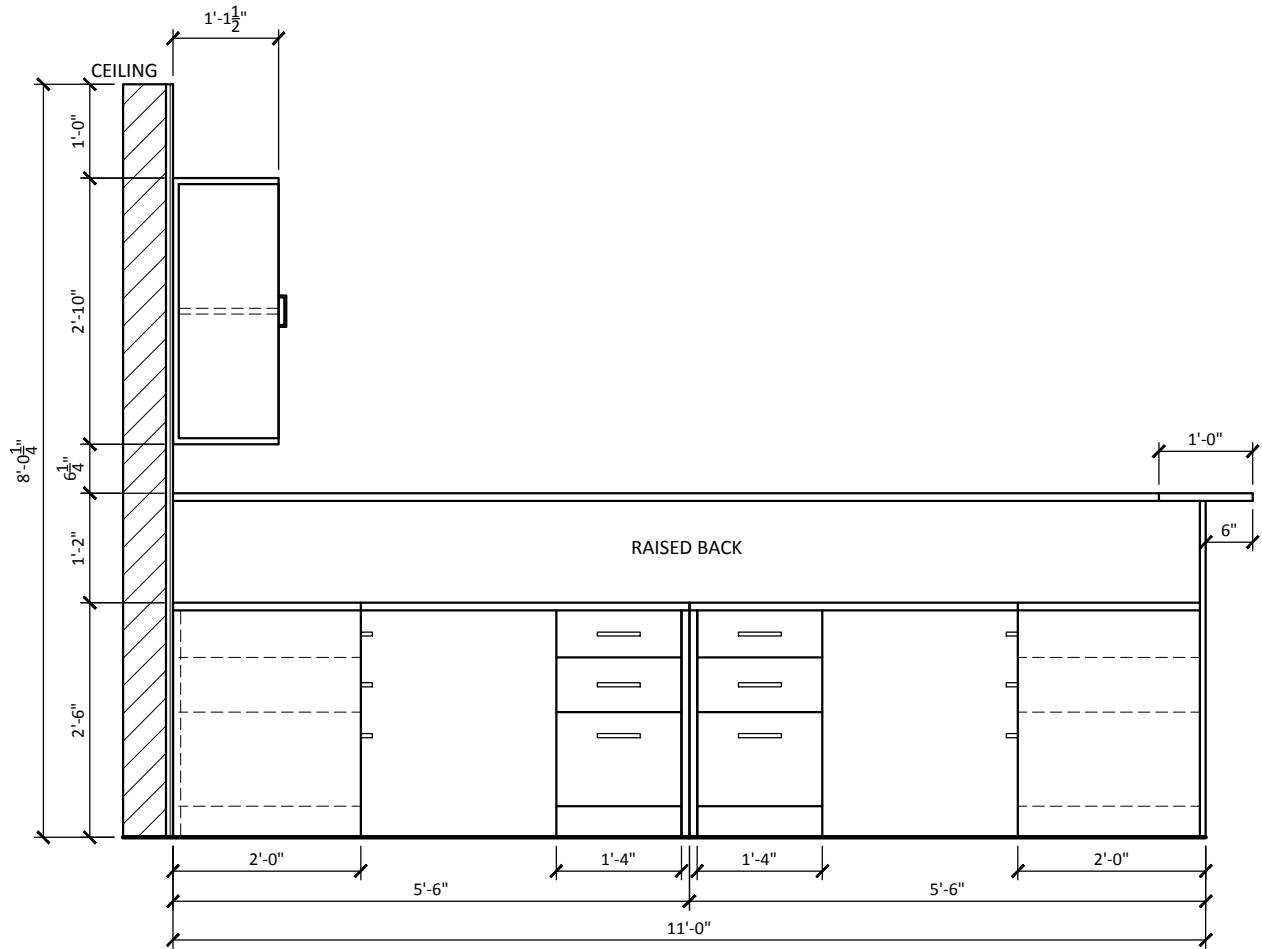
FOUNDATION DETAILS AND SCHEDULES

scale AS SHOWN

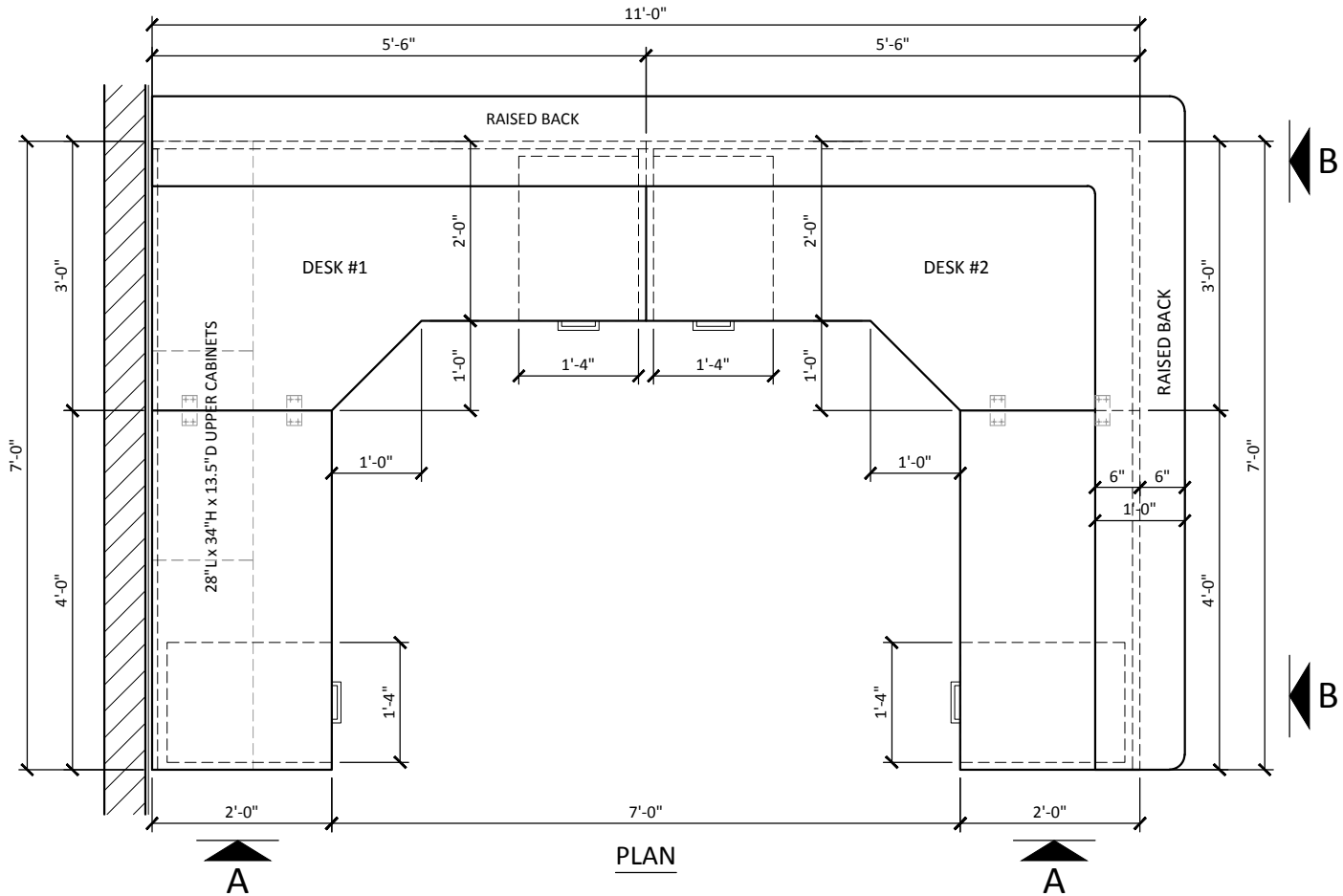
all dimensions are in IMPERIAL



VIEW B-B



VIEW A-A



PLAN

84" x 66" L-SHAPE DESK (RECEPTION AREA)
1 REQUIRED AS SHOWN

GENERAL NOTES:

- ALL MILLWORK SHALL BE CHERRY DURAMINE 381 CONSTRUCTED C/W CHERRY DURAMINE 381 EDGING, DOORS, AND ADJUSTABLE SHELVES
- ALL COUNTERTOPS SHALL BE EBONY FUSION, POST-FORMED PLASTIC LAMINATE
- ALL BASE CABINETS SHALL BE 24"D X 36" A.F.F. C/W SPACE ALLOWANCE FOR APPLIANCES AND BASINS
- ALL VANITIES SHALL BE 22 1/2"D X 32" A.F.F.
- ALL DOOR/DRAWER PULLS SHALL BE "C" TYPE BRUSHED ALUMINIUM
- ALL HINGES SHALL BE RECESSED EUROPEAN
- ALL 28"L X 34"H X 13.5"D DOUBLE CABINET TO BE INSTALLED 1 FT. BELOW CEILING

MILLWORK DETAILS

SCALE: 1/2" = 1'-0"

BECKER
Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers
10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate
Industrial Bldg.
12348-121 STREET, EDMONTON, ALBERTA T5L 4Y7

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.
NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

no.	description	revisions	date	checked

detail legend	A DETAIL NO.
B LOCATION DWG. NO.	C DETAIL DWG. NO.
DETAIL NUMBERS	TO

seal

PERMIT # 3557
JULY 19, 2012

units

19924 – 19925

project
CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title
MILLWORK DETAILS
2 - 84" x 66" L-SHAPE DESK
(RECEPTION AREA)

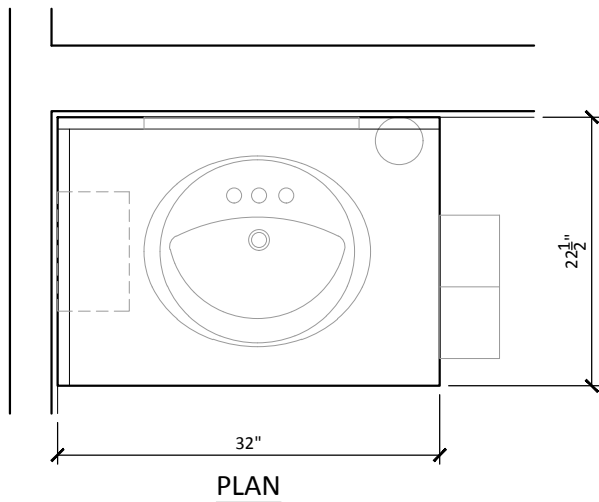
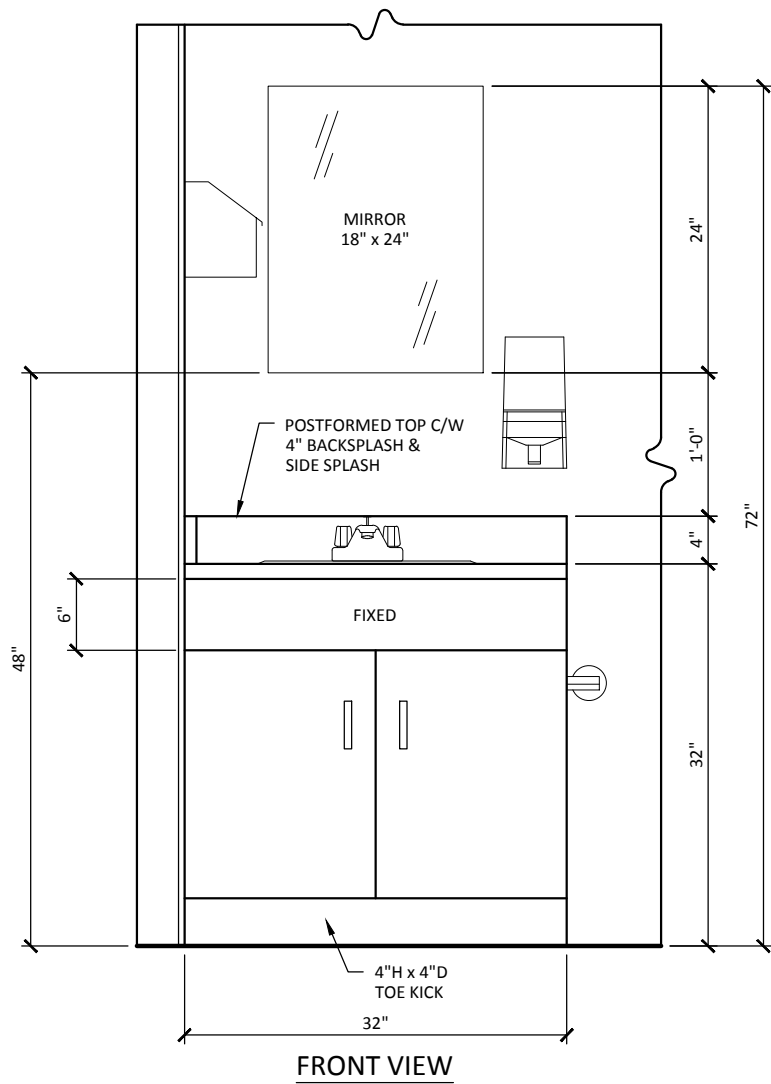
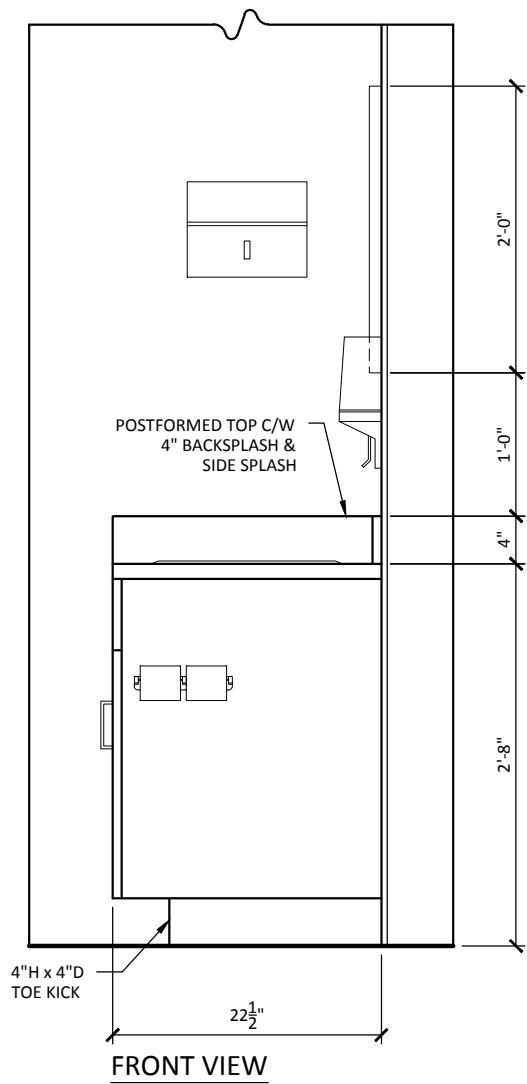
scale AS SHOWN

drawn by FJD drawing no. REV.

reviewed by OEZ **MW-1 0**

date MAR 23/2012 project no.

all dimensions are in INCHES 485-1209



WASHROOM VANITY
1 REQUIRED

MILLWORK DETAILS

SCALE: 3/4" = 1'-0"

GENERAL NOTES:

- ALL MILLWORK SHALL BE CHERRY DURAMINE 381 CONSTRUCTED C/W CHERRY DURAMINE 381 EDGING, DOORS, AND ADJUSTABLE SHELVES
- ALL COUNTERTOPS SHALL BE EBONY FUSION, POST-FORMED PLASTIC LAMINATE
- ALL BASE CABINETS SHALL BE 24"D X 36" A.F.F. C/W SPACE ALLOWANCE FOR APPLIANCES AND BASINS
- ALL VANITIES SHALL BE 22 1/2"D X 32" A.F.F.
- ALL DOOR/DRAWER PULLS SHALL BE "C" TYPE BRUSHED ALUMINIUM
- ALL HINGES SHALL BE RECESSED EUROPEAN
- ALL 28"L X 34"H X 13.5"D DOUBLE CABINET TO BE INSTALLED 1 FT. BELOW CEILING

(BECKER)
Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers




10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate
Industrial Bldg.
12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

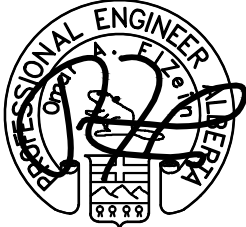
Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

revisions			
no.	description	date	checked

detail legend	
	A DETAIL NO.
	B LOCATION DWG. NO.
	C DETAIL DWG. NO.
DETAIL NUMBERS	TO

seal



PERMIT # 3557
JULY 19, 2012

units

19924 – 19925

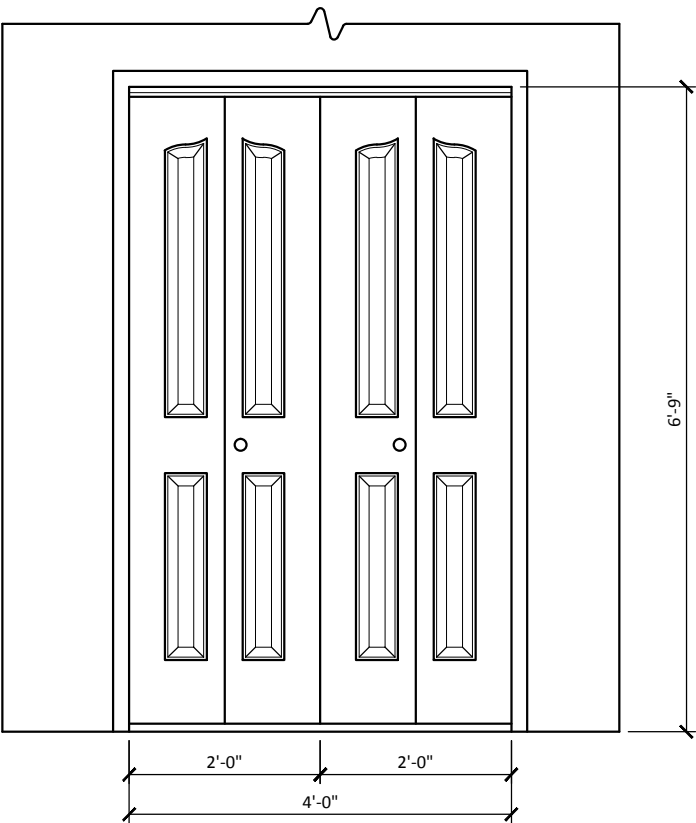
project

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

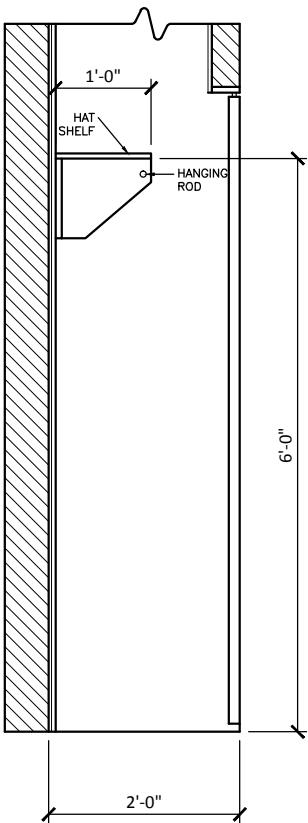
drawing title

MILLWORK DETAILS
WASHROOM VANITY

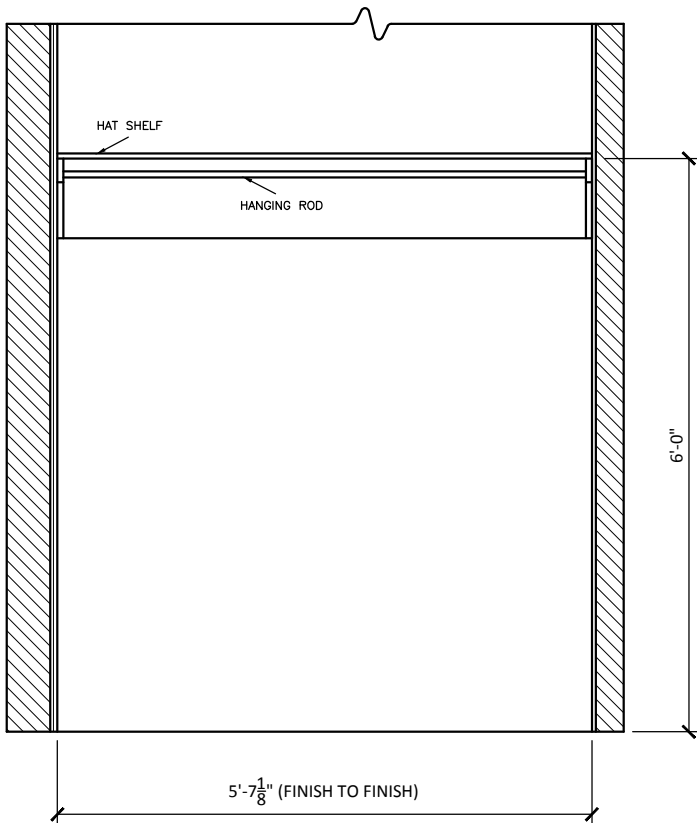
scale	AS SHOWN		
drawn by	FJD	drawing no.	REV.
reviewed by	OEZ	MW-3	0
date	MAR 23/2012	project no.	485-1209
all dimensions are in	INCHES		



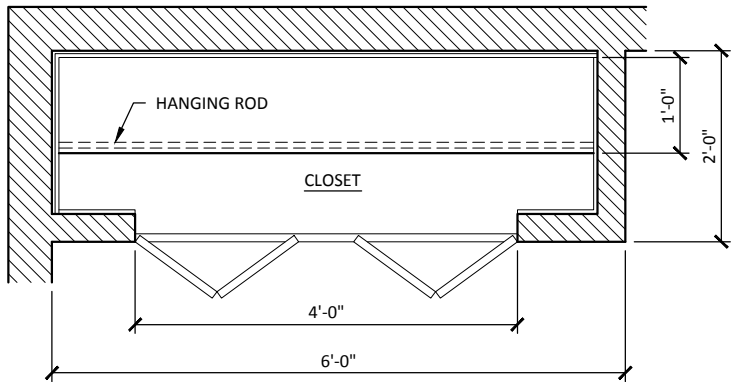
FRONT VIEW



CROSS-SECTION



CROSS-SECTION



PLAN

CLOSET
1 REQUIRED

MILLWORK DETAILS

SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- ALL MILLWORK SHALL BE CHERRY DURAMINE 381 CONSTRUCTED C/W CHERRY DURAMINE 381 EDGING, DOORS, AND ADJUSTABLE SHELVES
- ALL COUNTERTOPS SHALL BE EBONY FUSION, POST-FORMED PLASTIC LAMINATE
- ALL BASE CABINETS SHALL BE 24"D X 36" A.F.F. C/W SPACE ALLOWANCE FOR APPLIANCES AND BASINS
- ALL VANITIES SHALL BE 22 1/2"D X 32" A.F.F.
- ALL DOOR/DRAWER PULLS SHALL BE "C" TYPE BRUSHED ALUMINIUM
- ALL HINGES SHALL BE RECESSED EUROPEAN
- ALL 28"L X 34"H X 13.5"D DOUBLE CABINET TO BE INSTALLED 1 FT. BELOW CEILING

(BECKER)

Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Northgate

12345-121 STREET, EDMONTON, ALBERTA T5L 4Y7

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

revisions			
no.	description	date	checked

detail legend

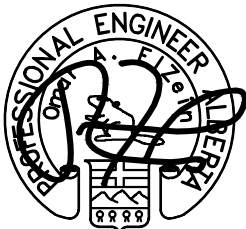


A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.

DETAIL NUMBERS

TO

seal



PERMIT # 3557
JULY 19, 2012

units

19924 – 19925

project

CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title

MILLWORK DETAILS
CLOSET

scale

AS SHOWN

drawn by

FJD

reviewed by

OEZ

date

MAR 23/2012

all dimensions are in

INCHES

drawing no.

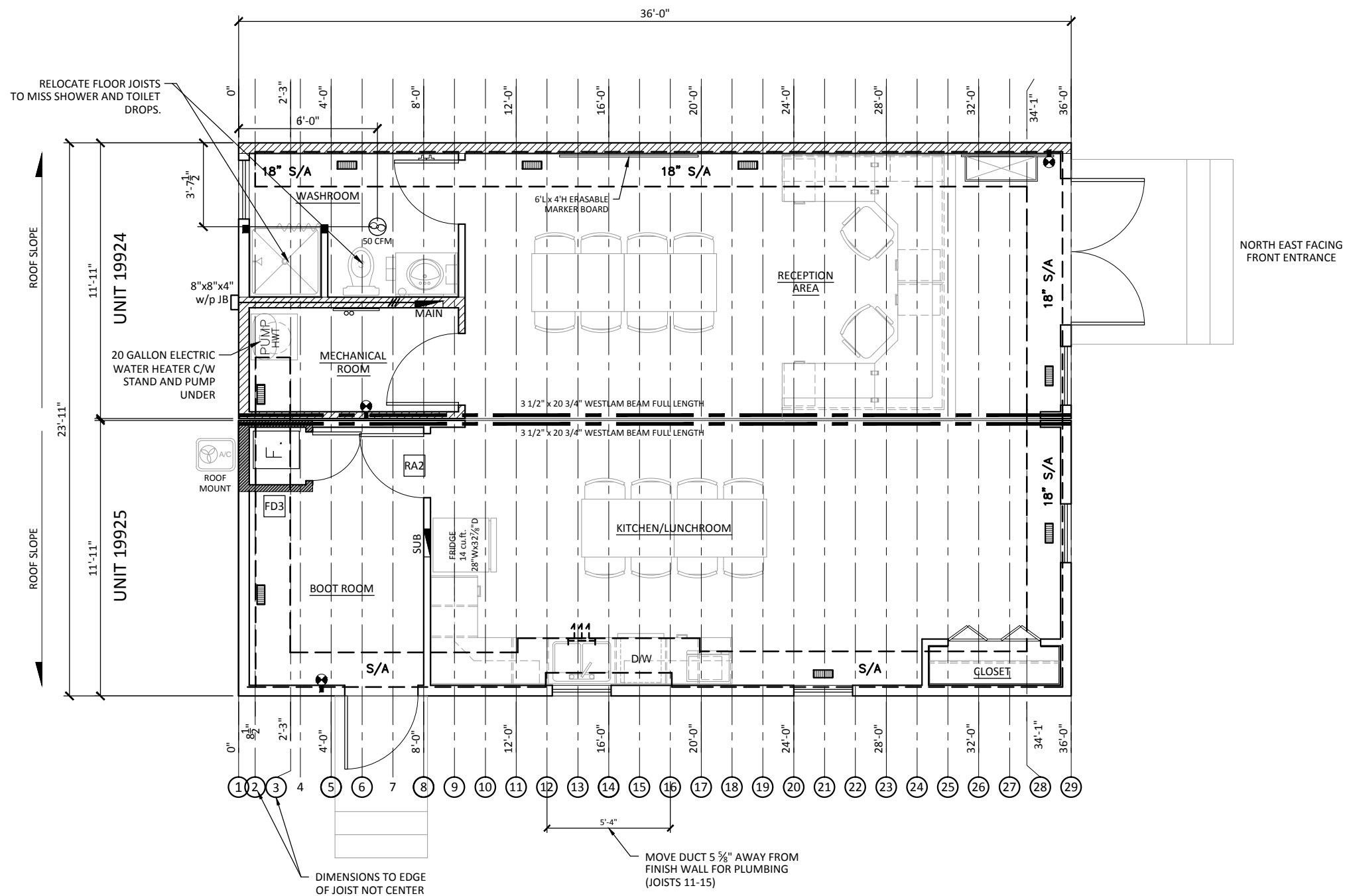
MW-4

REV.

0

project no.

485-1209



FIRE DAMPER			
	SIZE	R.O.	AREA (in ²)
FD1	16" x 8"	17 $\frac{1}{2}$ " x 9 $\frac{1}{2}$ "	128
FD2	24" x 10"	25 $\frac{1}{2}$ " x 11 $\frac{1}{2}$ "	240
FD3	18" x 18"	19 $\frac{3}{4}$ " x 19 $\frac{1}{2}$ "	324
RETURN AIR GRILLE			
	SIZE	R.O.	AREA (in ²)
RA1	16" x 8"	16 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ "	128
RA2	24" x 10"	24 $\frac{1}{2}$ " x 10 $\frac{1}{2}$ "	240
RA3	18" x 18"	18 $\frac{5}{8}$ " x 18 $\frac{1}{2}$ "	324

BECKER


Becker, El Zein and Associates Ltd.
Consulting & Investigative Engineers

10612 - 172 STREET
EDMONTON, ALBERTA, T5S 1H8
TEL: 483-0120 FAX: 486-1596

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

detail legend




A DETAIL NO.
B LOCATION DWG. NO.
C DETAIL DWG. NO.

DETAIL NUMBERS TO

units from - to:

19924 - 19925

seal:



PERMIT # 3557
JULY 19, 2012

project: CCS MIDSTREAM SERVICES
24' x 36' OPERATOR'S BUILDING
VALLEYVIEW

drawing title:

MECHANICAL FLOOR PLAN

scale AS SHOWN

all dimensions are in IMPERIAL

drawn by FJD	
reviewed by OEZ	
date MAR. 23/12	
drawing no. M-1	Rev. 0
project no. 485-1209	

3.0 MECHANICAL SPECIFICATION

NOTE: No A/C unit to be installed within 24” of centre line of width of unit, to allow for travel restraint system.

3.1 DESIGN CRITERIA

- temperature differential (heating) - 60 degrees Celsius
- temperature differential (cooling) - 8 degrees Celsius
- maximum water supply pressure - 80 PSI - by client
- fuel supply - NATURAL GAS

3.2 COOLING/HEATING

- furnace - 1 only, Intertherm Natural Gas fired, sealed combustion furnace installed in a down flow configuration as per specifications c/w duct connector and A/C ready
- A/C - 1 only, 2.0 ton split central air systems c/w condensers, cooling coil cabinets and refrigerant line set
- 1 only, roof mount condensers c/w base and harness
- ducting - 4 sided galvanised supply air duct installed within the floor space c/w all required dampers
- supply air grills - 10” x 4” adjustable
- controls - 1 only, heat/cool thermostat

3.3 VENTILATING

- return air - drawn via return air grills from furnace rooms throughout the complex including all required grills
- washroom - 1 only, 50 cfm ceiling mount **Broan** exhaust fan

3.4 PLUMBING

NOTE: No vents to be installed within 24” of centre line of width of unit, to allow for travel restraint system.

- domestic water - Type “M” soldered copper c/w cast bronze and wrought copper fittings or PEX with required fittings
- all water lines to be hidden where possible
- DWV - ABS throughout
- all vent shall be in the wall structure where possible
- sewer lines are harness straight drop flush to the underside of the floor to be connected by client
- supply only, all required ABS DWV to one common point

3.5 PLUMBING FIXTURES

- scope - water shut off valve to be supplied at all fixtures
- fixture count as per drawing
- hot water tank HWT - 1 only, in mechanical room, John Woods 20 gallon electric
- pressure pump - 1 only, Jacuzzi or equal 5c pressure pump c/w pressure tank and check valve
- water closet - 1 only, American Standard **White** elongated toilet c/w tank/open seat
- vanity basin - 1 only, American Standard 1-400 c/w Moen MOETL4621BC faucet
- kitchen sink - 1 only, double compartment stainless steel sink
- shower - 1 only, Hytec 36”x36” moulded fibreglass showers c/w Moen pressure balance, anti-scald valves and trim kits

3.6 FIRE SAFETY

- fire extinguishers - 1 only, at each exit door, 5 LB, ABC fire extinguisher c/w wall bracket
- 1 only, in mechanical room, 5 LB, ABC fire extinguisher c/w wall bracket

4.0 ELECTRICAL SPECIFICATION

4.1 DESIGN CRITERIA

- power supply - 120/240 volt, single phase, three wire, 60 Hertz
- lighting level - 70 foot candles average

4.2 SERVICE ENTRANCE

- locations - conduit stubbed from main panel to exterior of complex to a 8”x8”x4” weather proof junction box

4.3 DISTRIBUTION

- load center - 1 only, Cutler/Hammer CPM 120/ 240V, 60 amp, main panel c/w 60 main breaker and branch circuits as required including breaker for sub panel
- sub-panel - 1 only, Cutler/Hammer, 120/ 240V, 30 amp sub panel c/w branch circuits
- wiring - concealed, non-metallic, sheathed, copper cable c/w #14 AWG conductors

4.4 DEVICES

- scope - all devices shall be Iberville metallic boxes c/w Decora devices and White cover plates
- all receptacles shall be 15A/120V unless noted otherwise
- switching - switching as required for lighting, furnaces and exhaust fans
- receptacles - 1 only, duplex receptacles for refrigerator
- 4 only, duplex receptacles above kitchen counters
- 2 only, duplex receptacles in the mechanical room
- 2 only, duplex receptacles in the boot room
- 1 only, duplex receptacle for every 12' of uninterrupted wall space in all other areas if required
- 1 each, WP, GFI exterior duplex receptacles, by exterior doors
- heat trace receptacle under unit
- 1 only, in washroom, GFI receptacle
- computer/telephone - 1 only, per data outlet
- CAT6, cable to be run by others on site
- empty Iberville box c/w blank plate and 3/4" conduit stubbed thru floor
- 1 only, in mechanical room, 2' x 4' plywood data board c/w two 2” conduits stubbed thru floor

4.5 LIGHTING AND FIXTURES

- HPS exterior - 1 only, at each exit door, 70 watt high pressure sodium fixture c/w lens cover
- all HPS on photo cell
- interior fluourescent - 1' x 4' surface mount 4 tube c/w diffusers, tubes and wall switches as required
- emergency - Dual-lite, EZ2C two-head emergency light c/w battery backup and remote heads as required
- exit - Lumacell, LMCU as required to identify means of egress

END OF SPECIFICATION

BECKER

Becker, El Zein and Associates Ltd.

Consulting & Investigative Engineers

10612 - 172 STREET

EDMONTON, ALBERTA, T5S 1H8

TEL: 483-0120 FAX: 486-1596

Northgate Industries Ltd.

12345–121 STREET, EDMONTON, ALBERTA T5L 4Y7

no.	description	date	checked

revisions

Copyright reserved. This drawing is an instrument of service for the project specified. The drawing and design are exclusive property of BECKER, EL ZEIN AND ASSOCIATES LTD. and may not be used in whole or in part without the ENGINEER'S written consent.

NOTE: THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND MEASUREMENTS SHOWN ON THIS DRAWING AND WHERE DISCREPANCIES OCCUR HE SHALL REPORT TO THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH ANY PORTION OF THE WORK IN THE CONTRACT.

detail legend

A

B

C

DETAIL NUMBERS

A DETAIL NO.

B LOCATION DWG. NO.

C DETAIL DWG. NO.

TO

units from - to:

19924 - 19925

seal:

PROFESSIONAL ENGINEER

ALBERTA

PERMIT # 3557

JULY 19, 2012

project:

CCS MIDSTREAM SERVICES

24' x 36' OPERATOR'S BUILDING

VALLEYVIEW

drawing title:

MECHANICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

scale

AS SHOWN

all dimensions are in

IMPERIAL

drawn by

FJD

reviewed by

OEZ

date

MAR. 23/12

drawing no.

Rev.

M-2

0

project no.

485-1209