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DEPARTMENT OF
ENVIRONMENTAL QUALITY
BOISE REGIONAL OFFICE

July 5, 2012

Mr. Jack Gantz, P.E.
Technical I Engineer
State of Idaho-Department of Environmental Quality
1445 N. Orchard St.
Boise, ID 83706

Re: Non-Municipal Solid Waste Management Facility Design Plan Approval Application
Proposed Renewable Energy Project Located at Ada County Landfill
Dynamis Energy, LLC corrections based on DEQ comments

Dear Mr. Gantz,

On June 20, 2012, Dynamis Energy, LLC received notice from the Department of Environmental Quality in regards to the incomplete status of the Design Plans for the proposed renewable energy project located at Ada County Landfill.

We are responding to the outline of incomplete parts of the application in the form of an amended application. Additionally, where possible, an explanation of the corrections can be found below in italics.

General

Cover Letter First paragraph, first sentence. *Hidden Springs Landfill has been changed to Hidden Hollow Landfill.*

First paragraph, fourth sentence. Dynamis states the site was created by removing earth used to cap MSW in the landfill. Please clarify whether the facility is constructed over in-place waste. *There is no known landfill on the plant site.*

Second paragraph, third sentence. Dynamis has stated in the siting application that an additional 6 tons per day of tire will also be processed. *To produce the 22 MW, the Project will process approximately 408 tons per day (tpd) of MSW and 6 tons of tires.*

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208-938-2680 (p)

Non-Municipal Solid Waste Design Plan Approval Application

Section I The breakdown of composition of waste material should reflect the amounts presented in the siting application (408 tons per day of MSW and 12,000 pounds per day of tires). *In order to produce 22 MW, our design calculations show that we need to process approximately 408 tons of MSW with tires. The amount of MSW and tires processed can change daily and seasonally due to variations in the MSW Btu value. The 12,000 lbs. of tires is the estimated amount to account for the diverse MSW and it's Btu value, thereby meeting a consistent maximum power output of 22 MW. While these variations may exist, we have stated in this Design Application that 408 tons of MSW plus 12,000 lbs. of tire will be processed, staying consistent with the approved Site Plan Application.*

Section II Subsection II.01. As stipulated in the directions, a specific reference to document name, page number, etc. should be provided. With the layout of your submittal, it should be chapter or divider number, document name, page or drawing numbers (s). *Section numbers have been changed to Divider numbers. Page numbers and drawing numbers have been added for more specific reference.*

Chapter 3

Page 1 Leachate Collection System. Second paragraph. The County is currently exceeding their leachate storage pond capacity. Therefore, this option is not available at the current time. *As the tank fills, liquids will be pumped from the tank into a sewage truck and hauled to a wastewater treatment facility or the landfills leachate ponds when capacity is available.*

Chapter 4

General All design drawings must bear the stamp, date, and signature of a professional engineer registered in the State of Idaho. *All drawings have been stamped, dated and signed by a professional engineer or architect registered in the State of Idaho.*

Drawing a2.11 Unacceptable and hazardous waste material should be provided leak proof storage containers and secondary containment to prevent runoff into the general municipal

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solid waste handling areas. *Drawing a2.11 has been revised. Please see Keynote 11 on the drawing.*

Drawing 1102-01-S-1002200

Civil site plan is illegible. *Plan has been revised accordingly.*

Section A cut line is not identified in the plan view. *Please see revised drawing.*

Drawing 1102-10-P-1002104

General. Ductile Iron pipe is called out for the leachate drainage system under the building. However, there is no provision for secondary containment, which is critical for groundwater protection and also allows for leak monitoring of the annular space. Please provide or submit a detailed justification as to why secondary containment cannot be provided. *Please see response to Note F.*

Note F. Please provide material specifications for type of pipe joints and interior coating (suitable for chemical resistance of leachate) of Ductile Iron Pipe. Specification should include a pressure testing procedure. *We have selected Schedule 80 PVC pipe, which conforms to the 2003 Uniform Plumbing Code (UPC) 2003 as adopted and revised by the state of Idaho per IDAPA 07.02.06. This pipe can withstand an operating pressure of 140 psi, although the pipe will be under gravity flow conditions in the location specified. The UPC does not require secondary containment for sanitary sewer pipes and does not provide a standard for containment design or leak detection for gravity sewers. Leak testing will be conducted prior to backfill in accordance with section 712 of the UPC.*

Note 1. The outlet assembly of the tank should also be plugged with a water tight assembly. *Both openings in the tank will be inlets. Please see additional notes on revised drawing.*

It appears there is a drain sump in the ash storage room that is connected to the storage tank. Please verify. Will there be a potential for ash or ash slurry to co-mingle with MSW leachate? *Ash is contained and will not be airborne in the room. Water from tire preparation equipment will not mingle with ash to form slurry. Ash will be tested and details of that procedure will be in our Operations Plan.* If so, will the ash be characterized prior to disposal? If liquid from the ash is mixed with the MSW leachate, the ash should be characterized prior to placement in the ash storage area. If the ash characterizes as a HW, the liquid could also be hazardous waste. When mixed with the MSW leachate, the entire volume of mixed liquid would be a hazardous waste.

Storage tank must be leak tested prior to use. Please provide specifications for the tank including leak-testing protocol. *The Storage/Holding tank proposed is an Oldcastle Precast, Model HS-25, which is accepted by the State of Idaho in the Technical Guidance Manual for Individual and Subsurface Sewage Disposal Systems, Section 5.3, Table 0-1 on page 507. Tanks listed in the manual have been certified as watertight. In addition, the tank has met the following standards:*

1. *ASTM Standards:*
 - a. *ASTM C890-Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures*
 - b. *ASTM C913-Precast Concrete Water and Wastewater Structures*

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Page 5 of 5

2. *Tank meets ISPWC standards (Idaho Standards for Public Works Construction)*

The tank will be field certified for water tightness after assembly and installation, and prior to backfill using the following method:

The tank will be filled to 2 inches into the riser, and allowed to soak for 24-hours. After 24-hours the tank will be drained and refilled to the invert of the outlet. After refilling tank, the tank will be monitored for a period of one hour. If the tank shows visible leakage on the exterior or a water level drop (more than 1/8 inch) during the monitoring period it will be rejected and/or repaired.

Drawing 1102-04-F-1002038

Final design details need to be submitted for the Sump/lift station including details and specifications for liquid level control, remote alarms, and hydraulic testing requirements. *Please see revised drawing.*

Please provide a piping schedule for the leachate collection system piping including a list of materials, linings, fitting type, etc. *Please see attachments provided with this submittal.*

Drawing p1.3

Keyed Note 1. Where is the civil site plan referenced? Enlarged Waste and Vent Plan. Please reference plan sheet for the continuation of drainfield piping from the building to the drainfield. *Please see Civil Site Plan C6.*

Mr. Gantz, if you have any questions or need any clarifications, please call me at 941-2848.

Sincerely,



Doyle Pergande, P.E.
Dynamis Energy, LLC

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DYNAMIS
ENERGY™
ERRATA SHEET

(July 5, 2012) for the Application titled:
Non-Municipal Solid Waste Management Facility Design Plan Approval Application

As of July 5, the following errata to the *Design Plan Approval Application* are corrected below. Additions or changes to the documents below are shown in *italics* or advised as to where changes can be found.

Cover Letter: *Replace with amended Cover Letter*

First paragraph, first sentence. *Hidden Springs Landfill has been changed to Hidden Hollow Landfill*

First paragraph, fourth sentence. *There is no known landfill on the plant site.*

Second paragraph, third sentence. *To produce the 22 MW, the Project will process approximately 408 tons per day (tpd) of MSW and 6 tons of tires.*

Non-Municipal Solid Waste Design Plan Approval Application: *Replace with amended Application*

Section I, Page 5. *408 tons MSW daily average and 12,000 lbs. of tires, which may vary slightly daily and seasonally (due to moisture content) to produce required 18-22 MW of electricity.*

Section II Subsection II.01. ***Replace Table of Contents with amended one and Cover Page for Dividers 2 (Tipping Floor Design), Divider 3 (Leachate Collection System) & Divider 5 (Storm Water Management).***

Section numbers have been changed to Divider numbers. Page numbers have been added at the bottom of the Cover Pages in Dividers 2, 3 and 5.

Divider 3: *Previously replaced. (Cover Page for Divider 3)*

Page 1, Second paragraph. *As the tank fills, liquids will be pumped from the tank into a sewage truck and hauled to a wastewater treatment facility or the landfills leachate ponds when capacity is available.*

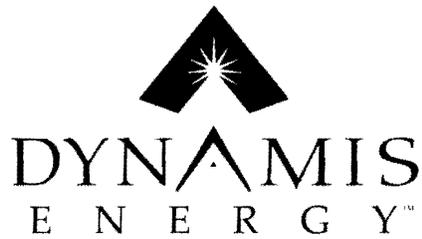
Divider 4

Replace all drawings with new packet of drawings.

Add document entitled PIPING MATERIAL SPECIFICATIONS (attached to dwg 1102-10-P-1002104).

See letter to Mr. Jack Gantz, P.E. for specific issues addressed.

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Design Plan Approval Application Ada County Landfill - Waste to Energy Facility

Dynamis Energy, LLC (Dynamis) is developing and intends to build, own, and operate a renewable energy project in Ada County at the Hidden Hollow Landfill. The Ada County Waste to Energy Project (the "Project") will be located at 10319 Seaman's Gulch Rd., Ada County, ID, within the existing 2700 acre Ada County Landfill. The proposed Project is subject to 40 CFR Subpart Eb and IDAPA 58.01.06 SOLID WASTE MANAGEMENT RULES. The area slated for the proposed facility is an excavated site, which was created by removing earth material used to cap MSW in the landfill. There is no known landfill on the plant site. The proposed facility is located at Latitude N43°42.33' and Longitude 116°16.45'. The Project site will be re-graded to an elevation to accommodate the facility.

The Project will consist of a Municipal Solid Waste (MSW) fired steam generator. The heat input of the steam generator is expected to be about 295 million British Thermal Units per hour (MMBtu/hr.). The Project is designed for a nominal maximum net electrical output of 22 MW for 16 hours per day plus supplying steam and electrical power to the facility for 24 hours per day. To produce the 22 MW, the Project will process approximately 408 tons per day (tpd) of MSW and 6 tons of tires.

The Project will process MSW, which otherwise would have been deposited in the Ada County landfill. MSW will be diverted from the landfill cell at the landfill gate/scales to the facility and will be placed on tipping floors inside the building. Non-processible waste (primarily bulky appliances and scrap metal) will be returned to Ada for recycling. The nominal, as delivered, higher heating value of MSW is expected to be 5,800 Btu/lb.

Power supplied from the Project will be interconnected with the local 138 kV. The Project will be equipped with a black start generator capable of starting the Project during times when the power grid is out of service. Either this generator or the local grid can be utilized to support operation of the facility if the power plant is out of service.

This Project will not impact the MSW collection activities or recycling programs currently maintained by Ada County, Boise City, Meridian, etc. Additionally, the Project will not limit recycling activities, goals or methodology that Ada County, Boise City, Meridian, Star, Eagle, Garden City, and Kuna may introduce in the future.

Pursuant to IDAPA 58.01.06, approval of location restrictions by the Department of Environmental Quality is required of all new non-municipal solid waste management facilities.

This document serves as the Design Approval Application.

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NON-MUNICIPAL SOLID WASTE MANAGEMENT FACILITY

DESIGN PLAN APPROVAL APPLICATION

(revised 8/26/2008)

REQUIREMENTS

Pursuant to IDAPA 58.01.06, approval of the Design Application is required for all new and lateral expansions of non-municipal solid waste management facilities. Existing facilities are required to comply with the design requirements within two years from April 26, 2002. Existing facilities may submit existing approvals that demonstrate compliance with applicable design requirements. Design Application approval process may occur after or concurrently with the Siting Application approval. The Design Application approval is required prior to operation of the facility. Approval from local authorities may be required. It is recommended that the applicant contact the county and/or city in which the facility will be located.

PRE-APPLICATION MEETING

It is very important that the applicant meet with the appropriate DEQ regional office staff before the design application is submitted. A tour of the site is very helpful in identifying any possible concerns that may need to be addressed in the application. A pre-application meeting with DEQ and the local Health District is recommended. This will help ensure that there is compliance with location restrictions and operational requirements and that sufficient information is submitted to allow for a timely review. It is advantageous to DEQ, the local health district and the applicant to move this process forward as quickly as possible.

REQUIRED SUBMITTALS

Please fill out the attached form, complete the questionnaire, and attach at a minimum, the indicated documentation to support the design requirements. Original and 2 copies of the application and supporting documents should be sent to the appropriate DEQ Regional Office listed below.

INCOMPLETE INFORMATION MAY CAUSE DELAY IN THE APPROVAL PROCESS

DEQ REGIONAL OFFICE CONTACTS:

Please send the original and 2 copies of the completed application and supporting documents to the appropriate regional office below:

Department of Environmental Quality
Coeur d'Alene Regional Office
2110 Ironwood Parkway
Coeur d'Alene, ID 83814
Contact: Gary Gaffney @ 769-1422

Department of Environmental Quality
Lewiston Regional Office
1118 F. Street
Lewiston, ID 83501
Contact: Gayle Westhoff @ 799-4370

Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, ID 83706
Contact: Jack Gantz @ 373-0550

Department of Environmental Quality
Twin Falls Regional Office
1363 Fillmore
Twin Falls, ID 83301
Contact: Scott Stanton @ 736-2190

Department of Environmental Quality
Pocatello Regional Office
444 Hospital Way, #300
Pocatello, ID 83204
Contact: Tom Mullican @ 236-6160

Department of Environmental Quality
Idaho Falls Regional Office
900 Skyline, Suite B
Idaho Falls, ID 83402
Contact: Christy Swenson @ 528-2650

CENTRAL OFFICE CONTACT:

Solid Waste Program Coordinator
Department of Environmental Quality
Waste Mgmt and Remediation Division
1410 N. Hilton
Boise, ID 83706
Contact: Dean Ehlert @ 373-0416

NON-MUNICIPAL SOLID WASTE DESIGN APPROVAL APPLICATION

I. GENERAL INFORMATION - Please complete (type or print) the General Information section or attach Preapplication Meeting Information if completed.

Applicant's Name Dynamis Energy, LLC

Applicant's Signature 

Application Date May 18, 2012 (Amended on July 5, 2012)

Name of Site Ada County Landfill Waste to Energy Facility

Location of Site Hidden Hollow Sanitary Landfill

10319 Seaman's Gulch Rd. Boise, ID

Total Acreage of Site 2,727 acres for Ada County Landfill / 6.58 acres for Waste to Energy Facility

Legal Description See attached map- Divider 4: C4 Dimension Plan

Property Owner of Record Ada County - See Divider 6: Appendix A

Address: 200 W. Front Street 3rd Floor

Boise, ID 83702

Telephone: 208-287-7000

(attach written approval from owner to use site for stated purpose, if owner is different from applicant)

Operator of Proposed Facility Dynamis Energy, LLC

Address: 776 E. Riverside Dr. Suite 150

Eagle, ID 83616

Telephone: 208-938-2680

Contact Person Regarding This Application

Name: Doyle Pergande

Address: 776 E. Riverside Dr. Suite 150

Eagle, ID 83616

Telephone: 208-938-2680

This application is for a;

NEW FACILITY

LATERAL EXPANSION of existing facility

Proposed Tier Classification;

Tier II

Tier III

This application is for what type of facility?

Construction & Demolition Waste Landfill

Transfer Station

Industrial Landfill

Compost Facility

Septage Disposal Site

Waste Tire Collection Site

Petroleum Contaminated Soils Processing Site

Other (please specify) Waste to Energy Thermal Oxidator

What is the composition of the waste material to be managed, processed or disposed?

Material	%
<u>Municipal Solid Waste</u>	<u>98.5</u>
<u>Tires</u>	<u>1.5</u>
_____	_____
_____	_____
_____	_____
_____	_____

What is the volume/mass of material received per day?

Volume/Mass

Unit

408 tons MSW daily average and 12,000 lbs of tires, which may vary slightly daily and seasonally (due to moisture content) to produce required 18-22 MW of electricity

II. DESIGN REQUIREMENTS - DESIGN APPLICATION APPROVAL

Instructions: These questions relate directly to the design requirements for non-municipal solid waste management facilities. Answer the questions below and, in an attached report, include all supporting documents and describe how they were used to make the determinations.

01. INCINERATORS, CESQG MANAGEMENT FACILITY & TRANSFER STATION FACILITY DESIGN REQUIREMENTS - All incinerators, CESQG Management Facilities and transfer stations regulated under the Solid Waste Management Rules, IDAPA 58.01.06 shall comply with items a through d.

a. Description of the tipping floor design.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.) Divider 2, page 1 & Divider 4, Drawing a2.11

b. Description of the storage or leachate management system design.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.) Divider 3, page 1 & Divider 4, Drawing No. 1102-10-P-1002104 & 1102-04-F-1002038

c. Building and construction design blueprints.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.) Divider 4 – All drawings & designs

d. Attach a map illustrating a storm water run-on/run-off system designed to prevent contamination of surface and ground water, and prevent the spread and impact of contamination beyond the boundary of the facility.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.) Divider 5, page 1, Exhibit 25, Deere & Ault Report with Sheet C-01

02. TIER II NMSWLF DESIGN REQUIREMENTS. All Tier II NMSWLFs regulated under the Solid Waste Management Rules, IDAPA 58.01.06 shall submit a map depicting the items identified in a through h.

a. Surface water and erosion control systems.

- b. Proposed fill area, including the location of waste disposal trenches or cells, noting the locations of trenches used for separated wastes such as animal carcasses, tree trunks, stumps, bulky wastes, car bodies, asbestos, and petroleum contaminated soils.
- c. Location of borrow areas.
- d. Design elevation grade of final cover.
- e. Soil and water table test boring holes, wells or excavations.
- f. Proposed receiving, storage, and processing areas
- g. Proposed trench layout and development, and
- h. Contour lines at five (5) foot intervals within the operating area and ten (10) foot intervals to the facility boundary.

03. TIER III PROCESSING FACILITIES DESIGN REQUIREMENTS. All Tier III Processing Facilities regulated under the Solid Waste Management Rules, IDAPA 58.01.06 shall submit to the Dept. items a through e.

- a. Building and construction design blueprints.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.)_____

- b. A map illustrating a storm water run-on/run-off system designed to prevent contaminatin of ground or surface water and prevent contamination beyond the boundary of the facility.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.)_____

- c. Operational design and capacity information including a descriptin of the waste types and projected daily and annual waste volumes.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.)_____

- e. In addition to items a through c, owners and operators of PCS processing facilities shall also submit the following;

- i. A hydrogeologic evaluation, including the potential for migration of contamination to ground or surface water;
- ii. A detailed description of treatment methods to be used,
- iii. Design plans for a leachate collection and control system to prevent ground and surface water contamination from the leach control system,

- iv. Design plans for an air emissions control system to prevent discharges of air pollutants, and

- v. Design plans for a liner designed to prevent ground or surface water contamination. The liner design shall account for the types of wastes handled and the potential for migration of liquid and gaseous contaminants to ground water.

04. TIER III NON-MUNICIPAL SOLID WASTE LANDFILL DESIGN REQUIREMENTS.
Tier III Non-Municipal Solid Waste Landfills regulated under the Solid Waste Management Rules, IDAPA 58.01.06 shall submit to the Dept. items a through d.

- a. Install a leachate collection and control system to prevent ground and surface water contamination.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.)_____

- b. Install a liner designed to prevent ground or surface water contamination. The liner design shall account for the types of waste handled and the potential for migration of liquid and gaseous contamination to ground or surface water.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.)_____

- c. Install appropriate toxic and flammable gas monitoring devices where the location, geophysical conditions, and waste characteristics indicate that there is a reasonable probability that the facility will generate toxic and flammable gas: exceeding twenty-five (25) percent of the lower explosive limit for gases in facility structures; exceeding the lower explosive limit at the property boundary; or otherwise presenting a potential threat to public health or the environment.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.)_____

- d. A facility map illustrating;

- i. Surface water and erosion control systems

- ii. Proposed fill area, including the location of waste disposal trenches or cells, noting the locations of trenches used for separated wastes such as animal carcasses, tree trunks, stumps, bulky wastes, car bodies, asbestos, and petroleum contaminated soils;

- iii. Location of borrow areas;

- iv. Design elevation grade of final cover;

- v. Soil and water table test boring holes, wells or excavations;

- vi. Proposed receiving, storage, and processing areas;

- vii. Proposed trench layout and development;

- viii. Contour lines at five (5) foot intervals within the operating area and ten (10) foot intervals to the facility boundary; and

ix. Building and construction design blueprints.

Information supporting this section of the application can be found in the attached documentation as follows: (document name, page number, etc.) _____

I certify that the information contained in this application is true and accurate to the best of my knowledge. If a registered P.E. or P.G. prepares application, please affix stamp to application.

Doyle Pergande

Signature of owner, operator
or legally authorized representative

July 3, 2012
Date

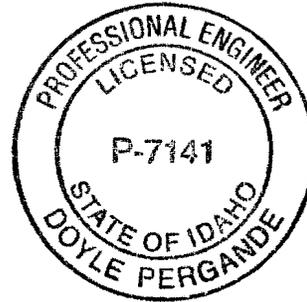


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DIVIDER 2: Description: Tipping Floor Design

DIVIDER 3: Description: Storage or Leachate
Management System Design

DIVIDER 4: Building and Construction Design
Blueprints

DIVIDER 5: Map: Storm Water Run-on/Run off
System

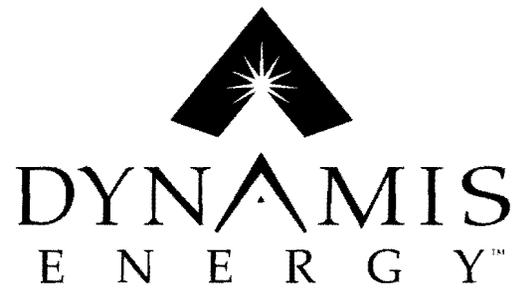
DIVIDER 6: Appendix A – Legal Description



Tipping Floor Design

The tipping floor is designed to have sufficient space to dump MSW (Municipal Solid Waste) from the commercial haulers onto the floor. This MSW is pushed into piles on the floor large enough such that there will be a supply of MSW fuel to last during the times in which the haulers are not hauling, such as nights, weekends and holidays. Loaders push the MSW to the middle of the floor where the conveyor system transports the MSW to the primaries. There are 9' high concrete push walls around three sides of the tipping floor to assist with the holding of MSW and loading of the conveyor. Refer to the construction drawings in Section 4 of this application for dimensioning details, particularly drawing a2.11 for plan view and 1002063 for section view.

The tipping floor is sloped down away from the truck entrance and down away from the sides to drain the floor. The tipping floor is designed with f'c min. of 6000psi concrete and a sealing additive of 7.5 % silica fume. All joints in the floor are to be constructed with water stops. The conveyor system takes the MSW from the tipping floor to the individual primaries.

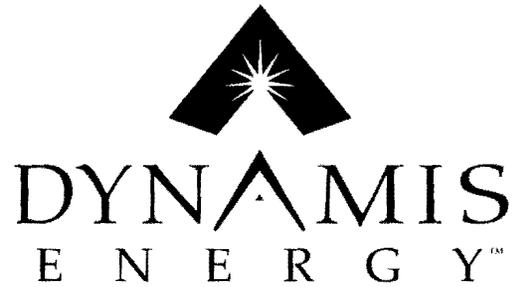


Leachate Collection System

Liquid from the MSW on the tipping floor will flow down slope toward the conveyor. Under the conveyor the floor is sloped to a drain. The drain flows by gravity in a pipe to a sump pump in the bottom of the primary trench. The sump is designed to pump up to a drain sump in the ash room. The ash room also has the tire feed floor where the tires are fed onto a conveyor system going to the primaries. From here the leachate gravity feeds to a watertight holding tank.

The holding tank also receives any liquid from the drains in the turbine room. As the tank fills, liquids will be pumped from the tank into a sewage truck and hauled to a wastewater treatment facility or the landfills leachate ponds when capacity is available.

Additional information can be found in Section 4 drawing no. 1002104 and 1002038



Storm Water Management

The Storm Water Management Plan is illustrated on the Grading Plan in Section 4 Sheet C5. All drainage from the site and roof drains (shown on Utility Plan in Section 4 Sheet C6) flow into a drainage system. No outside water is allowed to flow into the building and mix with inside drainage or leachate. The storm drainage is collected into drainage ditches and conveyed to the landfills retention storage ponds shown on the Master Drainage Plan included within this Section. The Storm Water Runoff Report is also included in this Section.

dynamis energy, llc

ada county waste to energy facility
10319 seaman's gulch road
ada county, idaho 83714
ideq design plan approval application



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abbreviations

F	NUMBER OR POUND	FLR	FLOOR	R	THERMAL RESISTANCE
C	DIAMETER	FND	FOUNDATION	RWB	RUBBER WALL BASE
ACT	ANGLE	FOF	FACE OF FINISH	RD	ROOF DRAIN
AT	AND	FOS	FACE OF STUDS	RDL	RAIN DRAIN LEADER
AND	AND	FT	FEET	RE	REFERENCE
AND	AND	FTC	FOOTING	REFRIG	REFRIGERATOR
AND	AND	GA	GAUGE	REINFC	REINFORCING
APPROX	APPROXIMATE	GALV	GALVANIZED	REQD	REQUIRED
ASSOC	ASSOCIATED	GWB	GYPSEUM BOARD	REO	ROOM
BD	BOARD	HCW	HOLLOW CORE WOOD	RO	ROUGH OPENING
BFC	BROOM FINISH CONCRETE	HM	HOLLOW METAL	RDWOOD	REDWOOD
BLOG	BLOCKING	HORIZ	HORIZONTAL	RWC	RAIN WATER CONDUCTOR
BLNG	BLIND	HT	HEIGHT	SCHED	SCHEDULE
BM	BEAM	HW	HARDWOOD	SCW	SOLID CORE WOOD
BTM	BOTTOM	ICMU	INTERIOR COLORED CONCRETE MASONRY UNITS	SCAL	SCALE
BRG	BRACING	ID	INSIDE DIAMETER	SGE	SEMI GLOSS ENAMEL
BSMT	BASEMENT	INSUL	INSULATION	SGWB	SUSPENDED GYPSEUM SHEET
BTWN	BETWEEN	INT	INTERIOR	SHT	SHEET
CAB	CABINET	INV	INVERT	SHTG	SHEATHING
CARP	CARPET	JAN	JANITOR	S.M	SIMILAR
CJ	CONTROL JOINT	JST	JOIST	SPECS	SPECIFICATIONS
CL	CENTERLINE	JT	JOINT	SS	SQUARE
CLG	CEILING	LAB	LABORATORY	SS	STAINLESS STEEL
CMU	CONCRETE MASONRY UNITS	LAM	LAMINATE	SSC	SMOOTH TROWELED CONCRETE
CO	CLEAN OUT	LAV	LAVATORY	STD	STANDARD
COL	COLUMN	LE	LATEX ENAMEL-LOW LUSTER	STL	STEEL
CONC	CONCRETE	LSF	LATEX SEMI GLOSS	STOR	STORAGE
CONST	CONSTRUCT	MAT	MATERIAL	STRUC	STRUCTURAL
CONT	CONTINUOUS	MAX	MAXIMUM	SUSP	SUSPENDED
CORR	CORRIDOR	MECH	MECHANICAL	SV	SHEET VINYL
CPT	CARPET	MET	METAL	T&G	TONGUE AND GROOVE
CSK	COUNTERSINK	MFR	MANUFACTURER	TEMP	TEMPORARY
CT	CERAMIC TILE	MIN	MINIMUM	TS	TUBE STEEL
CWB	CAPILLARY WATER BARRIER	MISC	MISCELLANEOUS	TWC	TEXTILE WALL COVERING
DBL	DOUBLE	MO	MASONRY OPENING	TYP	TYPICAL
DEPT	DEPARTMENT	MTG	MOUNTED	UND	UNLESS NOTED OTHERWISE
DETAI	DETAIL	MTG	MOUNTING	VAR	VARIES
DF	DRINKING FOUNTAIN	NA	NOT APPLICABLE	VCT	VINYL COMPOSITION TILE
DIA	DIAMETER	NB	NO BASE (EXPOSED WALL OR FOUNDATION)	VERT	VERTICAL
DIM	DIMENSION	NC	NEW CONCRETE	VEST	VESTIBULE
DISP	DISPENSER	ND	NOT IN CONTRACT	VIF	VERIFY IN FIELD
DN	DOWN	NIC	NEW MASONRY	VWC	VINYL WALL COVERING
DS	DOWNSPOUT	NO	NUMBER	W	WASHER
E	EXISTING MATERIAL	NOM	NOMINAL	W/	WITH
EJ	EXPANSION JOINT	NTS	NOT TO SCALE	WC	WATER CLOSET
ELEC	ELECTRICAL	OC	ON CENTER	WCT	WASHABLE CEILING TILE
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	WO	WOOD
EC	EXISTING CONCRETE	OQ	OFFICE	WH	WATER HEATER
EM	ENTRANCE MAT	OPNG	OPENING	W/O	WITH OUT
EP	EXPANSION JOINT	OTS	OPEN TO STRUCTURE	WP	WATERPROOF
EPFLS	EXISTING PLASTER	OWF	OVERFLOW	WRDB	WATER RES STANT GYPSEUM BOARD
EQ	EQUAL	PLAST	PLASTIC	WT	WEIGHT
EQUIP	EQUIPMENT	PLYWD	PLYWOOD	WWF	WELDED WIRE FABRIC
ESTR	EXPOSED STRUCTURE (NEW OR EXISTING)	POX	EPOXY PAINT		
EFIS	EXTERIOR FINISH & INSULATION SYSTEM	PR	PAIR		
EXIST	EXISTING				
EXP	EXPANSION				
EXT	EXTERIOR				
FD	FLOOR DRAIN				
FEC	FIRE EXTINGUISHER CAB.				
FF	FACTORY FINISH				
FFE	FINISH FLOOR ELEVATION				
FIN	FINISH				

symbols

SECTION LETTER		BUILDING SECTION
SHEET NO.		WALL SECTION
ELEVATION LETTER		ELEVATION REFERENCE
SHEET NO.		DETAIL REFERENCE
ROOM NO.		ROOM REFERENCE
WALL TYPE NO.		WALL TYPE REFERENCE
WALL HEIGHT (IF NOT FULL HEIGHT)		DOOR REFERENCE
GRID NO. OR LETTER		GRID LINE
KEYNOTE NO.		KEYNOTE REFERENCE
WINDOW NO.		WINDOW REFERENCE
PLAN OR DETAIL NO.		ENLARGED PLAN OR DETAIL
SHEET NO.		

general notes

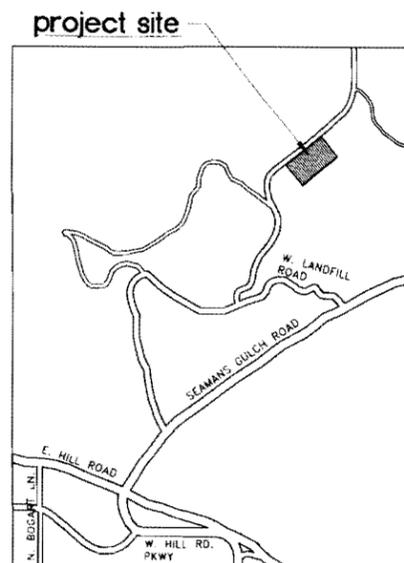
- CONTRACTORS SHALL CONSULT WITH DYNAMIS AND ARCHITECT TO RESOLVE ANY CHANGES, OMISSIONS OR PLAN DISCREPANCIES PRIOR TO BIDDING OR CONSTRUCTION.
- PRIME CONTRACTORS SHALL COORDINATE AND MANAGE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS WHICH INCLUDE, BUT ARE NOT LIMITED TO, DRAWINGS AND CONSTRUCTION AGREEMENT CONTRACT.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES AND ORDINANCES.
- CONTRACTORS SHALL VERIFY THE LOCATION OF ALL UTILITIES.
- CONTRACTORS TO VERIFY ALL DIMENSIONS NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
- PRIME CONTRACTORS SHALL RETAIN ONE SET OF THE PLANS TO NOTE AND DOCUMENT ALL CHANGES DURING CONSTRUCTION THIS SET SHALL BE A PART OF THE GENERAL CONTRACTORS CLOSE-OUT PACKAGE.
- PREMISE TO BE 'BROOM CLEAN' AND EMPTY OF ALL LOOSE ITEMS AND DEBRIS AT ALL TIMES.
- DO NOT SCALE DRAWINGS.

graphics legend

	EARTH
	CONCRETE
	GRAVEL BASE
	GYPSEUM BOARD
	BATT/SOUND INSULATION
	ACOUSTIC CEILING TILE
	PLYWOOD
	WOOD FRAMING
	WOOD BLOCKING
	CLAY MASONRY
	CMU
	METAL STUD
	METAL STUD
	PLASTIC LAMINATE
	RIGID INSULATION SYMBOL
	CLAY MASONRY HEADER COURSE
	CLAY MASONRY CUSTOM UNITS

drawing schedule

a001	cover sheet
civil:	
c1	cover sheet
c4	dimensioning plan
c5	grading plan
c6	utility plan
c7	site cross sections
architectural:	
a2.11	floor plan
a2.12	floor plan
a2.13	enlarged floor plan
a3.11	exterior elevations
a3.12	exterior elevations
a3.13	exterior elevations
site:	
01-S-1002200	site plan + elevation control sections
10-P-1002104	misc. utilities pipe routing plan
04-F-1002038	leachate
buildings:	
09-B-1002059	main + turbine building floor plan
09-B-1002063	main building sections + details
09-B-1002195	main building sections + details
09-B-1002201	main building sections + details
09-B-1002203	turbine/boiler/scrubber partial section
09-B-1002204	turbine building sections
09-B-1002205	turbine/cooling tower partial elevation
plumbing:	
p11	waste and vent plan - area 1
p12	waste and vent plan - area 2
p13	enlarged waste and vent plan
p2.1	water and gas plan - area 1
p2.2	water and gas plan - area 2
p2.3	enlarged water and gas plan
p3.1	plumbing details
p4.1	plumbing schedules



dynamis energy, llc
ada county waste to energy facility
10319 seaman's gulch road
ada county, idaho 83714

revision:
SUBMITTED TO IDEQ

project: 100910
date: 05.17.12
drawn: mb.tb
checked: cp.de

construction documents

cover sheet

a0.01

de
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acerstad@erstadarchitects.com
cpearse@erstadarchitects.com

HIDDEN HOLLOW LANDFILL WASTE TO ENERGY PLANT

SITUATED WITHIN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER (NE4 NE4) OF SECTION 12,
TOWNSHIP 4 NORTH, RANGE 1 EAST, BOISE MERIDIAN, AND GOVERNMENT LOT 1 OF SECTION 7 AND
GOVERNMENT LOT 7 OF SECTION 6, TOWNSHIP 4 NORTH, RANGE 2 EAST, BOISE MERIDIAN, ADA COUNTY, IDAHO

ADA COUNTY, IDAHO

prepared by:

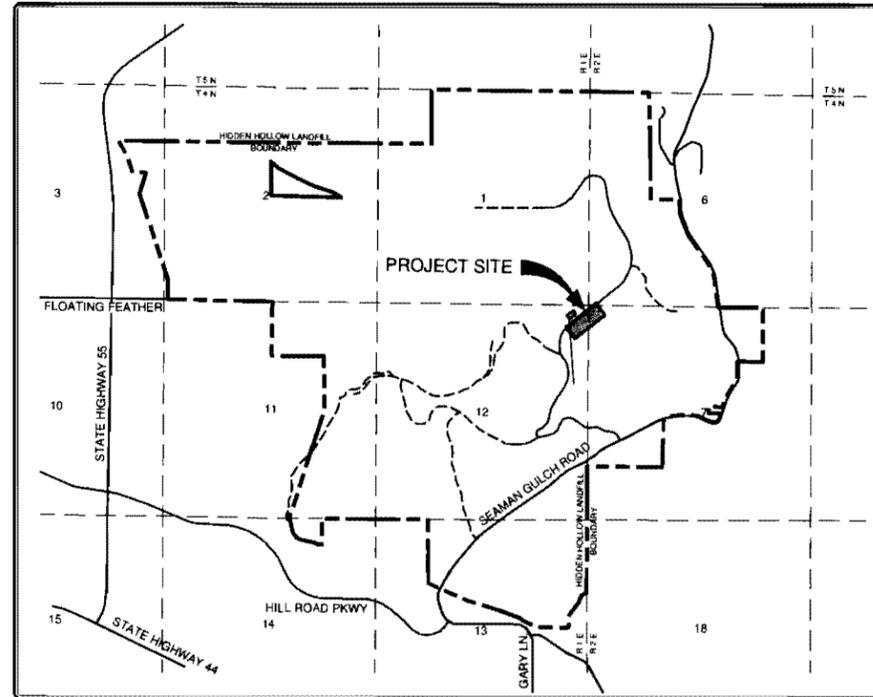
DYNAMIS ENERGY, LLC

776 EAST RIVERSIDE DRIVE, SUITE 150

EAGLE, IDAHO 83616

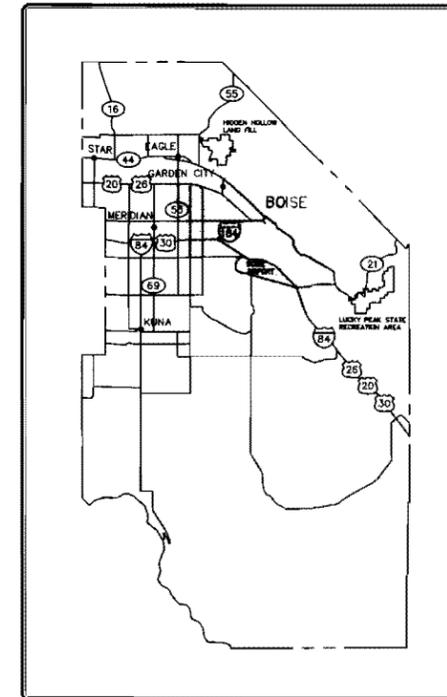
CONTACT: DOYLE PERGANDE, P.E.

PHONE: (208) 938-2680



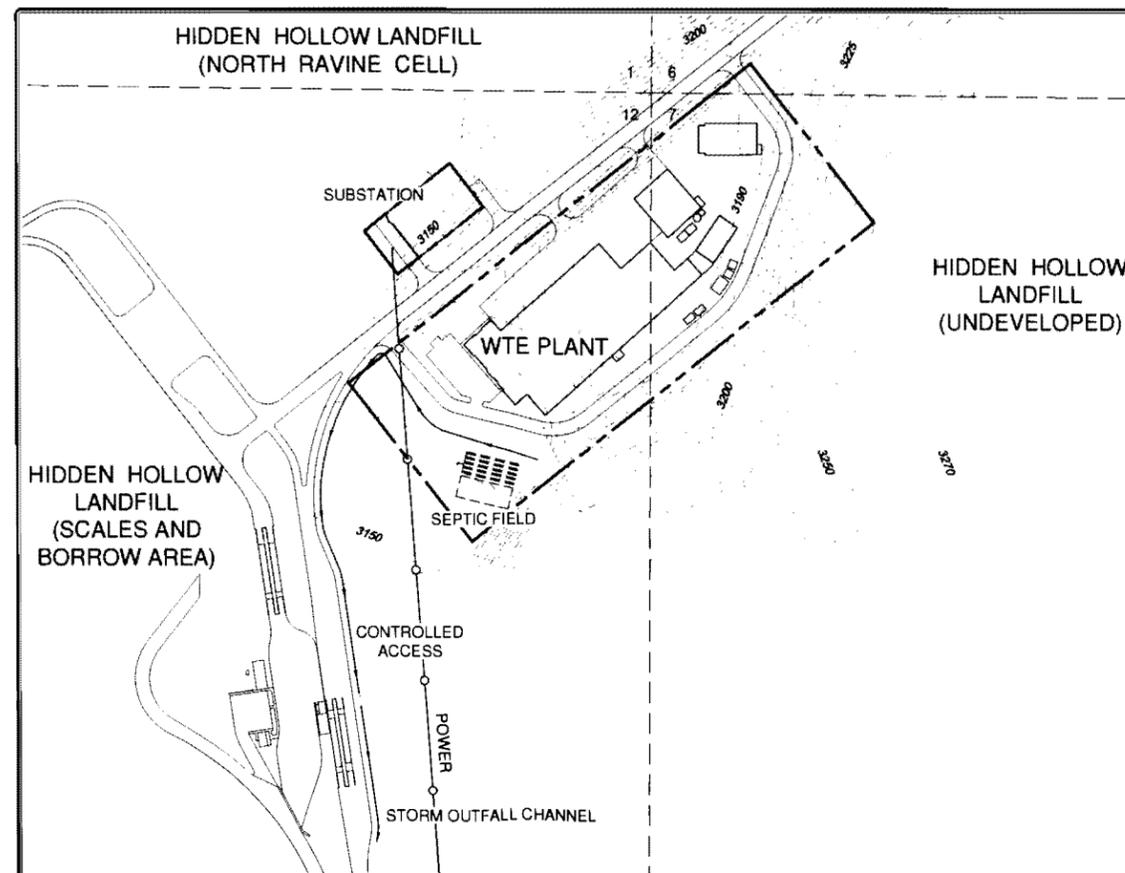
VICINITY MAP

1"=2000'



ADA COUNTY MAP

NOT TO SCALE



LOCATION MAP

1"=150'



DATE:	MAY 17, 2012
DESIGNED BY:	STAFF
DRAWN BY:	STAFF
CHECKED BY:	
PROJECT:	
SCALE:	

DYNAMIS ENERGY, LLC
 ADA COUNTY LANDFILL WASTE TO ENERGY PLANT
 COVER SHEET

COVER SHEET

SHEET INDEX

SHEET NO.	PAGE	SHEET NAME
C1	1 OF 8	COVER SHEET
C2	2 OF 8	EXISTING CONDITIONS PLAN Not Included
C3	3 OF 8	TYPICAL SECTIONS AND LEGEND Not Included
C4	4 OF 8	DIMENSIONING PLAN
C5	5 OF 8	GRADING PLAN
C6	6 OF 8	UTILITY PLAN
C7	7 OF 8	SITE CROSS SECTIONS
C8	8 OF 8	REVEGETATION PLAN



C1

SHEET 1 OF 8

V. 10 R. 7

path: C:\p\d-Scott\Dynamis_Landfill\03_Design\file name: WTE-COVER.dwg | plot date: May 17, 2012 | plotted by: ssonders

BASIS OF BEARING

THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 7, TOWNSHIP 4 NORTH, RANGE 2 EAST, BOISE MERIDIAN. THE NORTHWEST CORNER OF SAID SECTION 7 BEING A FOUND 3/8 INCH REBAR WITH CAP, MARKED PLS 5461, FROM WHICH A FOUND 3/8 INCH BRASS CAP MONUMENT MARKING THE WEST QUARTER CORNER OF SAID SECTION 7 BEARS SOUTH 02°13'17" WEST, 2611.35 FEET.

BASIS OF ELEVATION

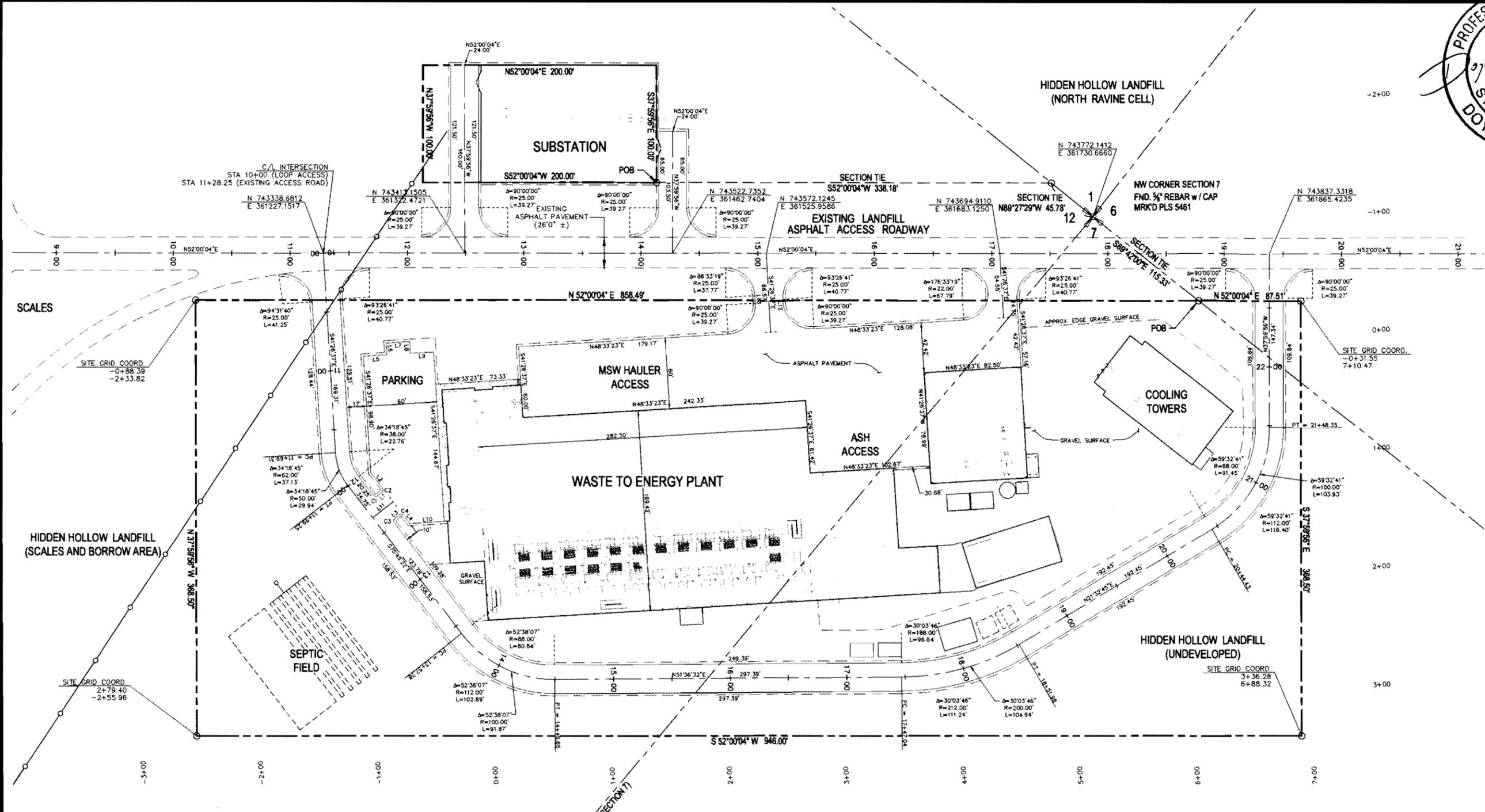
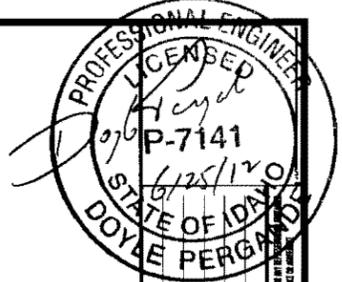
HORIZONTAL DATUM: NAD83/99, IDAHO STATE PLANE COORDINATES, IDAHO WEST ZONE 1103, ADJUSTED FOR SCALE AND ELEVATION BY A COMBINED FACTOR OF 1.0001832259.

VERTICAL DATUM: NAVD88

UNITS: U.S. SURVEY FEET

CONTROL: N.G.S. STATION "IDTD", PID 0H1488
N.G.S. STATION "BOIS A", PID AH9750

PER "SURVEY CONTROL DIAGRAM, HIDDEN HDLLOW LANDFILL" PREPARED BY DAVID S. SHORT, P.L.S. (2009).



SCALES

SITE GRID COORD.
0+88.39
-2+33.82

HIDDEN HOLLOW LANDFILL
(SCALES AND BORROW AREA)

SITE GRID COORD.
2+79.40
-2+55.96

CURVE	DELTA	RADIUS	LENGTH
C1	Δ=90°00'00"	R=2.50	L=3.83
C2	Δ=90°00'00"	R=2.50	L=3.83
C3	Δ=90°00'00"	R=2.50	L=3.83
C4	Δ=90°00'00"	R=2.50	L=3.83

LINE	LENGTH	BEARING
L1	5.00	N14°14'38"E
L2	16.47	N75°46'22"W
L3	5.00	N14°14'38"E
L4	8.73	N75°46'22"W
L5	20.00	S48°33'23"W
L6	10.00	N41°28'37"W
L7	20.00	S48°33'23"W
L8	10.00	N41°28'37"W
L9	20.00	S48°33'23"W
L10	28.45	S48°33'23"W
L11	22.00	N14°14'38"E
L12	1.74	N41°28'37"W
L13	8.19	N41°28'37"W

DESCRIPTION FOR PROPOSED LEASE TO DYNAMIS ENERGY, LLC

PARCEL 1. WASTE TO ENERGY PLANT
 A TRACT OF LAND BEING A PORTION OF HIDDEN HOLLOW SUBDIVISION AS RECORDED IN BOOK 53, PAGES 4782, 4783, 4784, 4786, 4787, 4788, 4789 OF THE OFFICIAL RECORDS OF ADA COUNTY, IDAHO, LOCATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER (NE1/4 NE1/4) OF SECTION 12, TOWNSHIP 4 NORTH, RANGE 1 EAST, BOISE MERIDIAN, AND GOVERNMENT LOT 1 OF SECTION 7 AND GOVERNMENT LOT 7 OF SECTION 6, TOWNSHIP 4 NORTH, RANGE 2 EAST, BOISE MERIDIAN, ADA COUNTY IDAHO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT THE NORTHWEST QUARTER OF SAID SECTION 7, BEING A FOUND 5/8 INCH REBAR WITH CAP, MARKED PLS 5461, FROM WHICH A FOUND 3-1/4 INCH BRASS CAP MONUMENT MARKING THE WEST QUARTER CORNER OF SAID SECTION 7 BEARS SOUTH 02°13'17" WEST (BASIS OF BEARING), 2611.35 FEET; THENCE ALONG THE NORTHERLY LINE OF SAID SECTION 7, SOUTH 89°42'00" EAST, 115.33 FEET TO THE POINT OF BEGINNING;

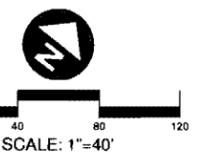
LEAVING SAID NORTHERLY LINE
 THENCE NORTH 52 DEGREES 00 MINUTES 04 SECONDS EAST, A DISTANCE OF 87.51 FEET;
 THENCE SOUTH 37 DEGREES 59 MINUTES 56 SECONDS EAST, A DISTANCE OF 368.50 FEET;
 THENCE SOUTH 52 DEGREES 00 MINUTES 04 SECONDS WEST, A DISTANCE OF 946.00 FEET;
 THENCE NORTH 37 DEGREES 59 MINUTES 56 SECONDS WEST, A DISTANCE OF 368.50 FEET;
 THENCE NORTH 52 DEGREES 00 MINUTES 04 SECONDS EAST, A DISTANCE OF 858.49 FEET;
 TO THE POINT OF BEGINNING

CONTAINING 348,602 SQUARE FEET OR 8.00 ACRES MORE OR LESS.

PARCEL 2. SUBSTATION
 A TRACT OF LAND BEING A PORTION OF HIDDEN HOLLOW SUBDIVISION AS RECORDED IN BOOK 53, PAGES 4782, 4783, 4784, 4786, 4787, 4788, 4789 OF THE OFFICIAL RECORDS OF ADA COUNTY, IDAHO, LOCATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER (NE1/4 NE1/4) OF SECTION 12, TOWNSHIP 4 NORTH, RANGE 1 EAST, BOISE MERIDIAN, ADA COUNTY IDAHO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT THE NORTHWEST QUARTER OF SAID SECTION 7, BEING A FOUND 5/8 INCH REBAR WITH CAP, MARKED PLS 5461, FROM WHICH A FOUND 3-1/4 INCH BRASS CAP MONUMENT MARKING THE WEST QUARTER CORNER OF SAID SECTION 7 BEARS SOUTH 02°13'17" WEST (BASIS OF BEARING), 2611.35 FEET; THENCE ALONG THE NORTHERLY LINE OF SAID SECTION 12, NORTH 89°27'29" WEST, 45.78 FEET; THENCE LEAVING SAID NORTHERLY LINE, SOUTH 52°00'04" WEST, 338.18 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 52 DEGREES 00 MINUTES 04 SECONDS WEST, A DISTANCE OF 200.00 FEET;
 THENCE NORTH 37 DEGREES 59 MINUTES 56 SECONDS WEST, A DISTANCE OF 100.00 FEET;
 THENCE NORTH 52 DEGREES 00 MINUTES 04 SECONDS EAST, A DISTANCE OF 200.00 FEET;
 THENCE SOUTH 37 DEGREES 59 MINUTES 56 SECONDS EAST, A DISTANCE OF 100.00 FEET;
 TO THE POINT OF BEGINNING.

CONTAINING 20,000 SQUARE FEET OR 0.46 ACRES MORE OR LESS.

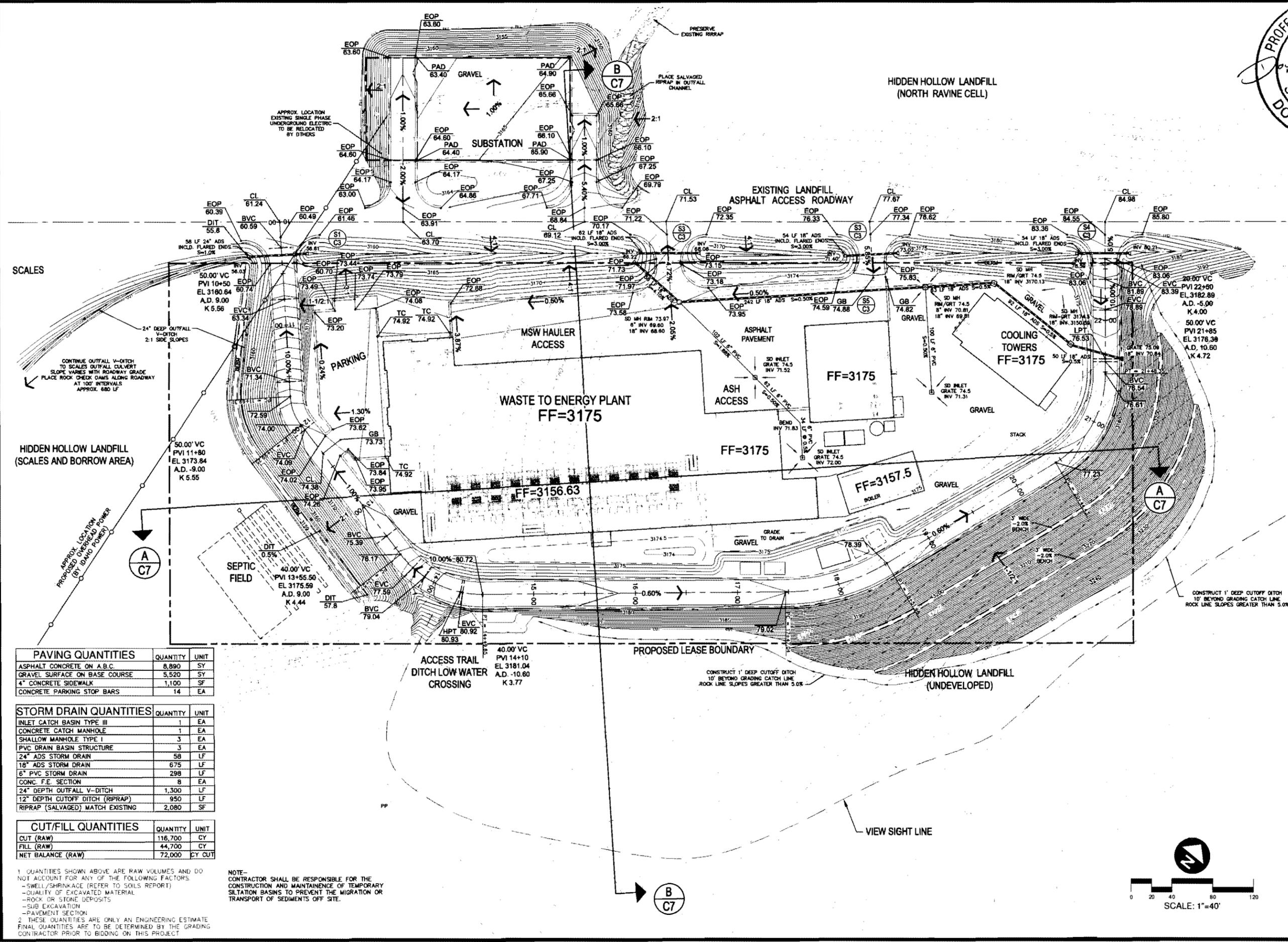


DYNAMIS ENERGY, LLC
 ADA COUNTY LANDFILL WASTE TO ENERGY PLANT
 PLAN SHEET
DIMENSIONING PLAN



C4
 SHEET 4 OF 8
 V.10 R.7

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SCALES

HIDDEN HOLLOW LANDFILL (SCALES AND BORROW AREA)

PAVING QUANTITIES	QUANTITY	UNIT
ASPHALT CONCRETE ON A.B.C.	8,890	SY
GRAVEL SURFACE ON BASE COURSE	5,520	SY
4" CONCRETE SIDEWALK	1,100	SF
CONCRETE PARKING STOP BARS	14	EA

STORM DRAIN QUANTITIES	QUANTITY	UNIT
INLET CATCH BASIN TYPE III	1	EA
CONCRETE CATCH MANHOLE	1	EA
SHALLOW MANHOLE TYPE I	3	EA
PVC DRAIN BASIN STRUCTURE	3	EA
24" ADS STORM DRAIN	58	LF
18" ADS STORM DRAIN	675	LF
6" PVC STORM DRAIN	298	LF
CONC. F.E. SECTION	8	EA
24" DEPTH OUTFALL V-DITCH	1,300	LF
12" DEPTH CUTOFF DITCH (RIPRAP)	950	LF
RIPRAP (SALVAGED) MATCH EXISTING	2,080	SF

CUT/FILL QUANTITIES	QUANTITY	UNIT
CUT (RAW)	116,700	CY
FILL (RAW)	44,700	CY
NET BALANCE (RAW)	72,000	CY CUT

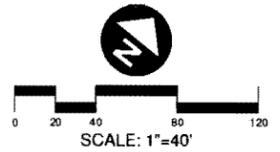
NOTE—
CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF TEMPORARY SILTATION BASINS TO PREVENT THE MIGRATION OR TRANSPORT OF SEDIMENTS OFF SITE.

1. QUANTITIES SHOWN ABOVE ARE RAW VOLUMES AND DO NOT ACCOUNT FOR ANY OF THE FOLLOWING FACTORS:
- SWELL/SHRINKAGE (REFER TO SOILS REPORT)
- QUALITY OF EXCAVATED MATERIAL
- ROCK OR STONE DEPOSITS
- SUB EXCAVATION
- PAVEMENT SECTION
2. THESE QUANTITIES ARE ONLY AN ENGINEERING ESTIMATE. FINAL QUANTITIES ARE TO BE DETERMINED BY THE GRADING CONTRACTOR PRIOR TO BIDDING ON THIS PROJECT.

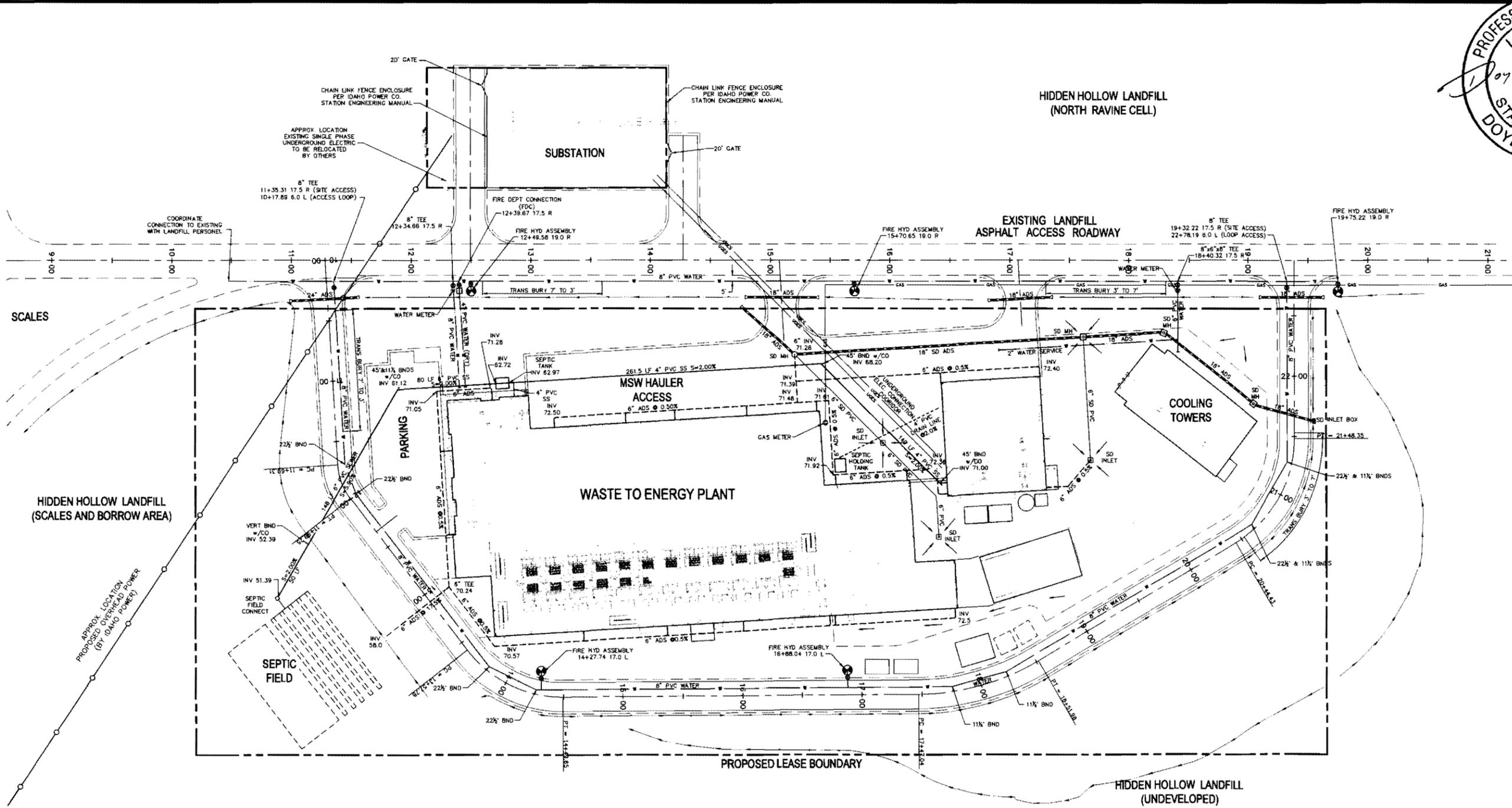
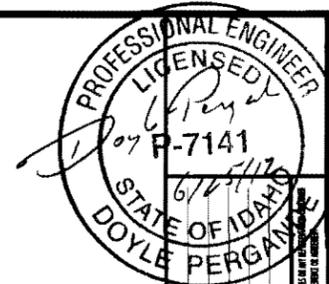
DYNAMIS ENERGY, LLC
HIDDEN HOLLOW LANDFILL WASTE TO ENERGY PLANT
PLAN SHEET
GRADING PLAN



C5
SHEET 5 OF 8
V.10 R.7

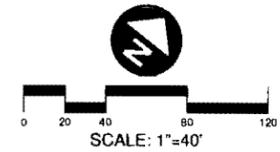


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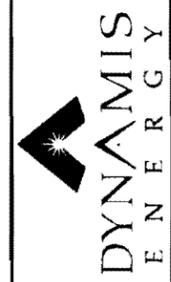


UTILITY QUANTITIES	QUANTITY	UNIT
6" PVC SEWERLINE	296	LF
4" PVC SEWERLINE	399	LF
4" PVC SEWER DRAIN LINE	92	LF
SEWER CLEAN OUT	5	EA
3000 GAL. SEPTIC TANK	2	EA
8" PVC WATERLINE	2260	LF
6" PVC WATERLINE	60	LF
4" PVC WATERLINE	125	LF
8" GATE VALVE	3	EA
6" GATE VALVE	1	EA
4" GATE VALVE	1	EA
2" WATER SERVICE	150	LF
WATER METER	2	EA
FIRE HYDRANT ASSEMBLY	5	EA
FIRE DEPT CONNECTION (FDC)	1	EA
GAS METER & SERVICE EXTENTION	1	EA
6" ADS ROOF DRAIN	1380	LF
ROOF DRAIN CONNECTION	19	EA
CHAIN LINK FENCE	460	LF
CHAIN LINK GATE	2	EA

NOTE-COORDINATE ROOF DRAIN CONNECTIONS WITH ARCHITECTURAL PLAN FOR FINAL NUMBER & LOCATION

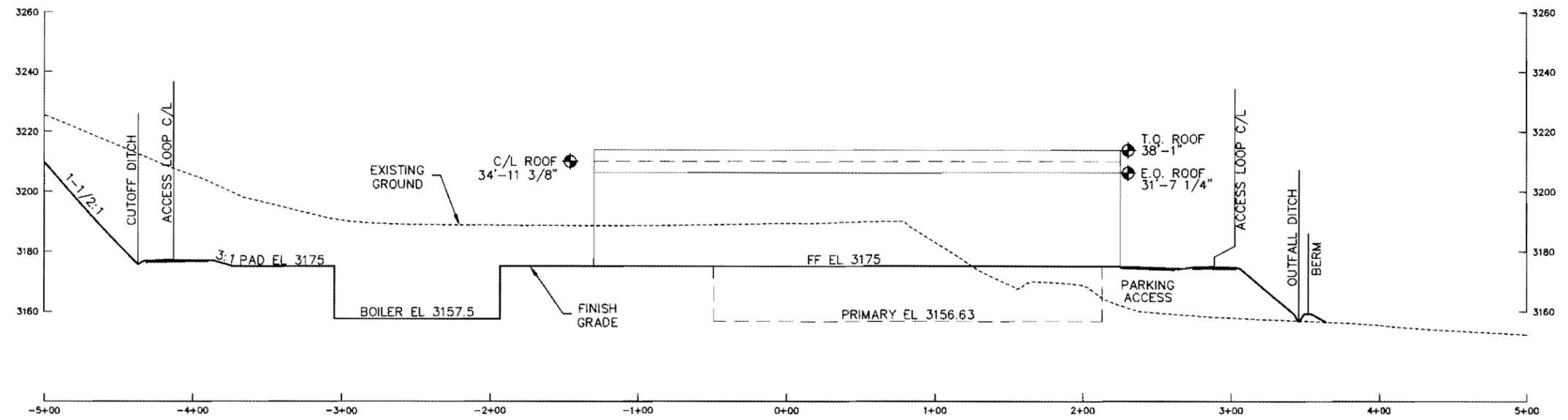
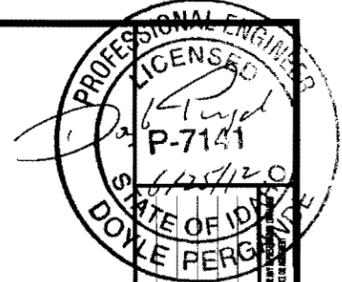


DYNAMIS ENERGY, LLC
 ADA COUNTY LANDFILL WASTE TO ENERGY PLANT
 PLAN SHEET
 UTILITY PLAN

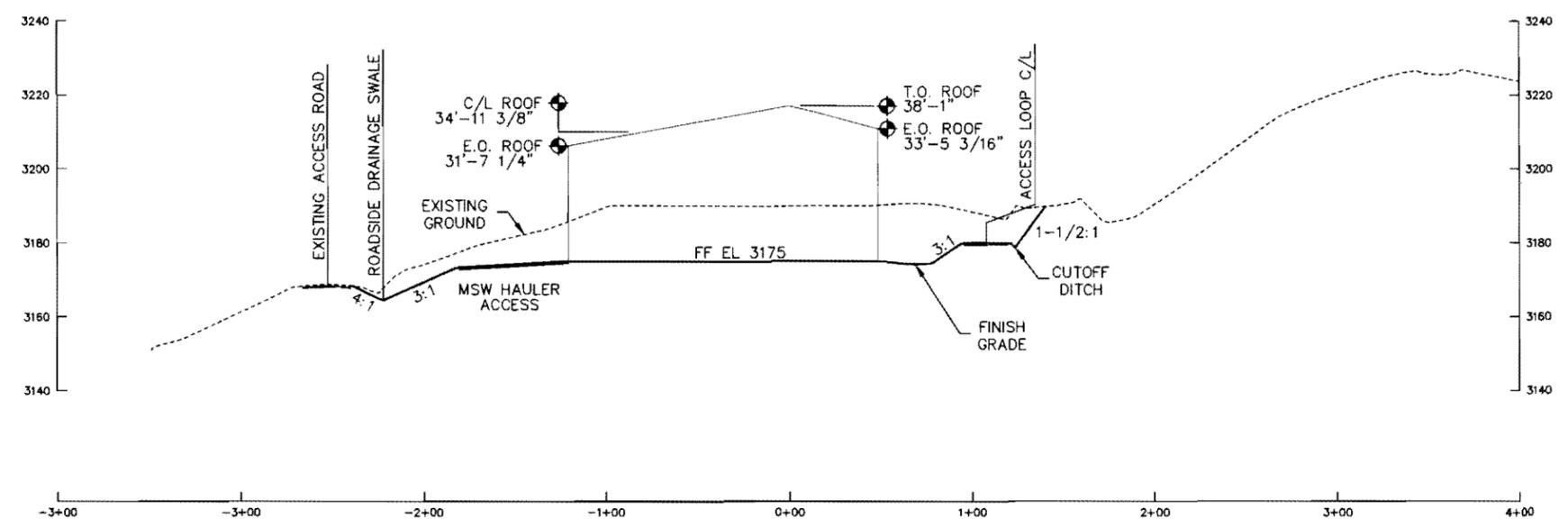


C6
 SHEET 6 OF 8
 V. 10 R. 7

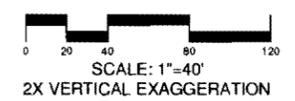
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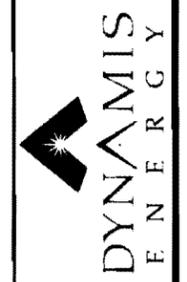
A
C5 SITE CROSS SECTION (LOOKING SOUTHEAST)



B
C5 SITE CROSS SECTION (LOOKING NORTHEAST)

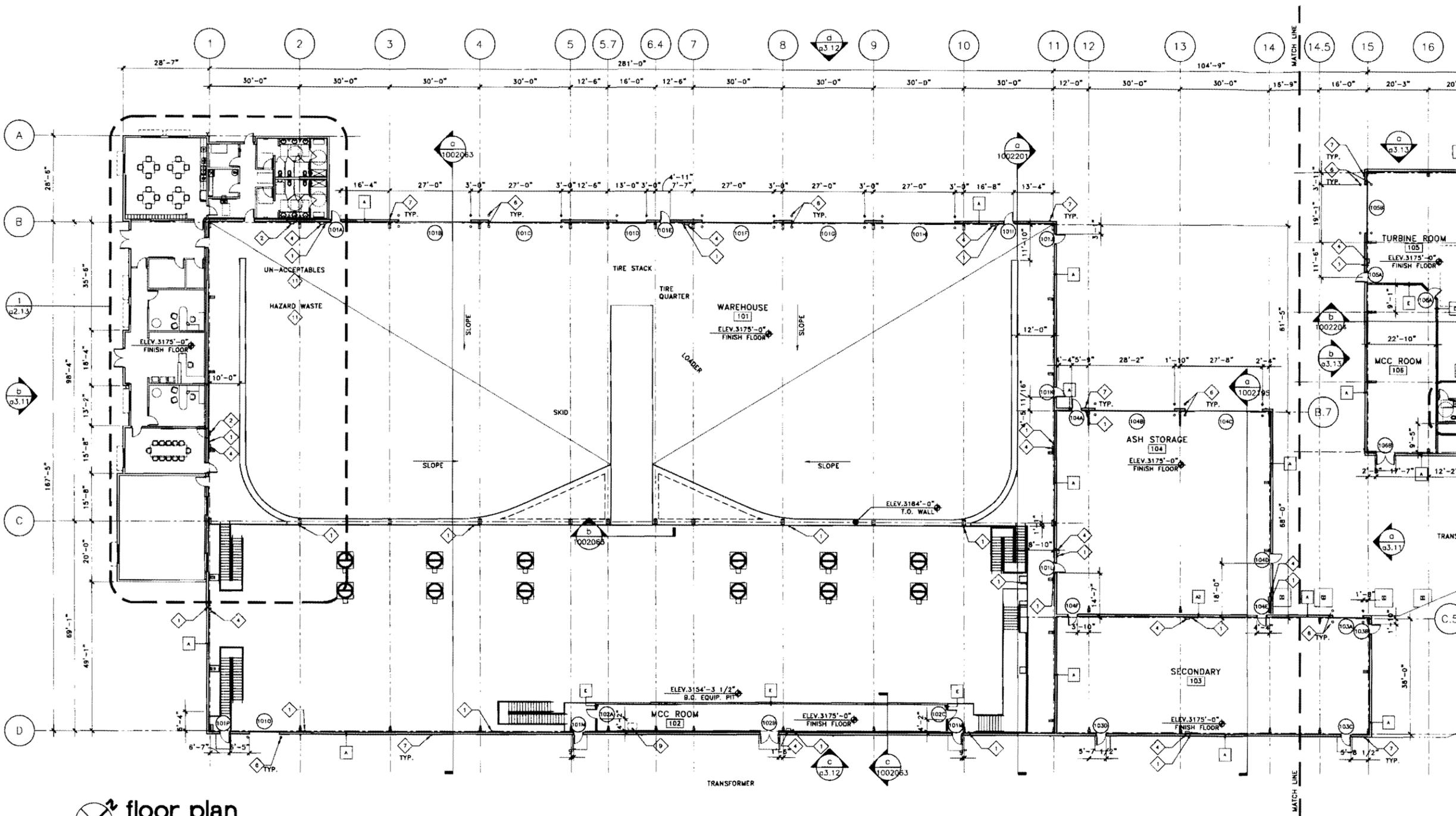


DYNAMIS ENERGY, LLC
ADA COUNTY LANDFILL WASTE TO ENERGY PLANT
SECTION SHEET
SITE CROSS SECTIONS

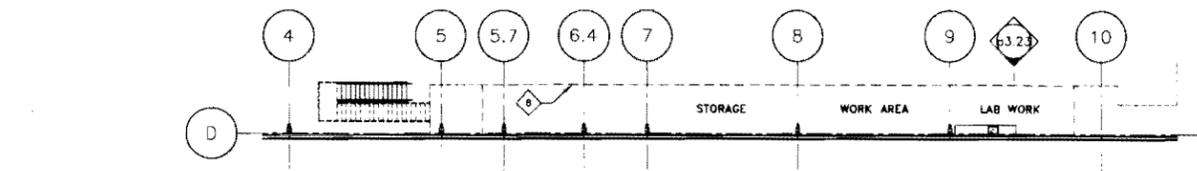


C7
SHEET 7 OF 8
V. 10 R. 7

c:\oh_c\p-scott\dynamis_landfill\03_design\file_name_wie-sect.dwg | plot date: May 17, 2012 | plotted by: ssanders



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



partial pit floor plan
SCALE: 1/16" = 1'-0"

- keynotes:**
- 1. WALL MOUNTED PORTABLE FIRE EXTINGUISHER AS SPECIFIED. VERIFY FINAL LOCATIONS WITH FIRE MARSHALL, SEE 4/a5.11.
 - 2. ROOF ACCESS LADDER WITH DOOR ABOVE, SEE 1/a2.44.
 - 3. NOT USED.
 - 4. EYE WASH, SEE SPECIFICATIONS.
 - 5. FLOOR DRAIN, SEE PLUMBING DRAWINGS.
 - 6. BOLLARD, SEE 6/a5.11.
 - 7. DOWNSPOUT, SEE ROOF PLAN.
 - 8. MCC ROOM ABOVE.
 - 9. ROOF HATCH ABOVE, SEE ROOF PLAN.
 - 10. REMOVABLE ROOF SECTION ABOVE, SEE ROOF PLAN.
 - 11. CONTAINERS WILL BE LEAK PROOF METAL CONTAINERS LINED WITH 40 MIL. POLYETHYLENE LINERS.

- general notes:**
- A. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD; NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.
 - B. GYPSUM WALLBOARD APPLICATION & FINISHING AT ALL EXPOSED SURFACES TO COMPLY WITH SPECIFICATIONS AND/OR WITH AWC LEVEL 5.
 - C. UNLESS NOTED OTHERWISE ALL EXTERIOR WALLS ARE DIMENSIONED TO FACE OF STUD.
 - D. UNLESS NOTED OTHERWISE ALL INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF STUD.
 - E. UNLESS DIMENSIONED OTHERWISE INTERIOR DOORS SHALL BE LOCATED 4" FROM ADJACENT PARTITION.
 - G. CONTRACTOR TO PROVIDE SOLID BLOCKING IN WALLS TO SUPPORT ALL WALL MOUNTED ITEMS.
 - H. SEE a2.13 FOR WALL TYPES.



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420 main street, suite 202, boise, idaho 83702
(208) 333-8837 fax 331-9858 e-mail: erated@erated.com

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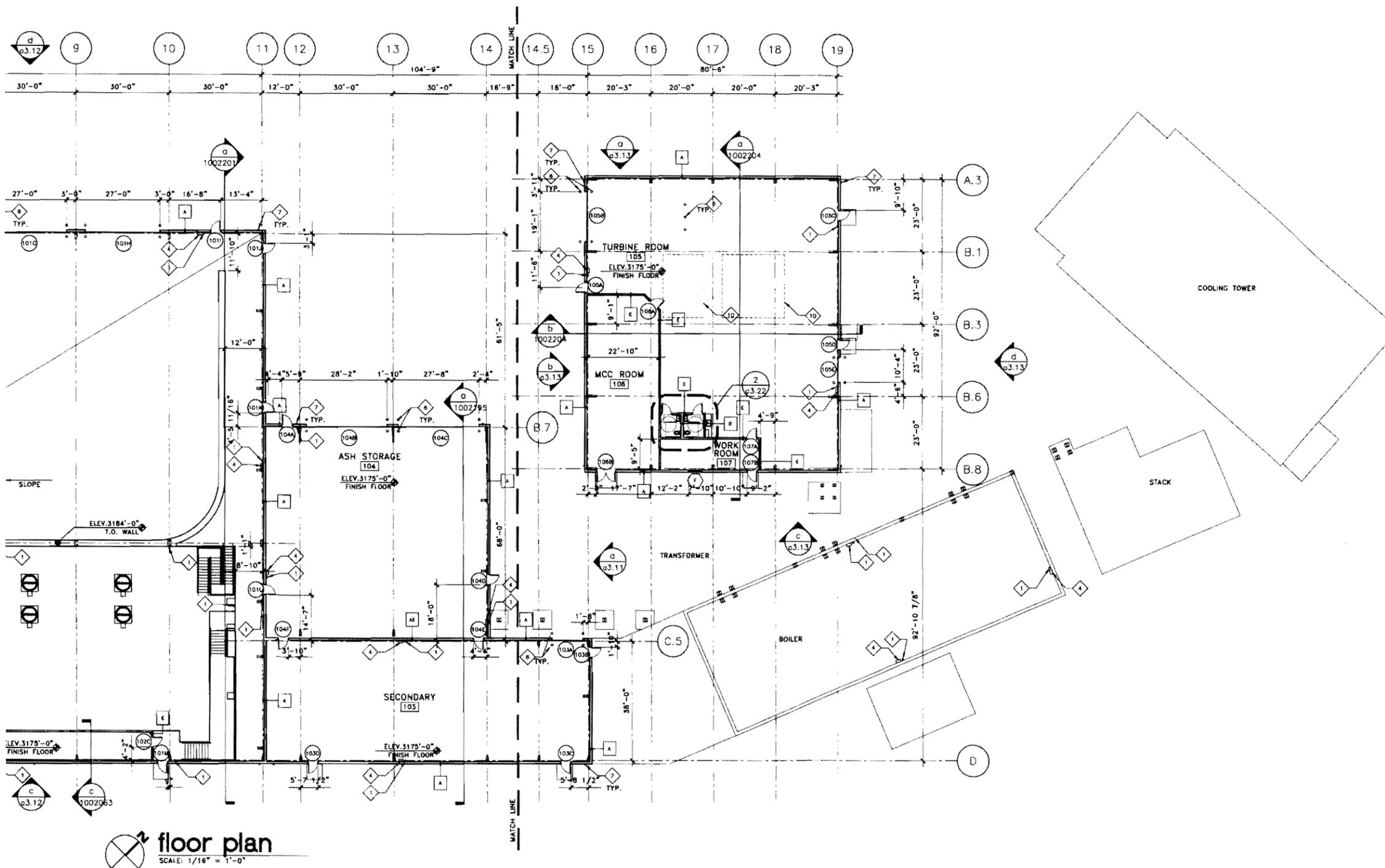
dynamis energy, llc
ada county waste to energy facility
10319 seaman's gulch road
ada county, idaho 83714

revision:
SUBMITTAL TO IDEO
IDEO DESIGN PLAN
APPLICATION REV1
06.28.12

project: 100910
date: 05.17.12
drawn: mb.tb
checked: cp.oe

construction documents

floor plan
a2.11



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

- keynotes:**
1. WALL MOUNTED PORTABLE FIRE EXTINGUISHER AS SPECIFIED. VERIFY FINAL LOCATIONS WITH FIRE MARSHALL, SEE 4/05.11.
 2. ROOF ACCESS LADDER WITH DOOR ABOVE, SEE 1/02.44.
 3. NOT USED.
 4. EYE WASH, SEE SPECIFICATIONS.
 5. FLOOR DRAIN, SEE PLUMBING DRAWINGS.
 6. BOLLARD, SEE 6/05.11.
 7. DOWNSPOUT, SEE ROOF PLAN.
 8. MCC ROOM ABOVE.
 9. ROOF HATCH ABOVE, SEE ROOF PLAN.
 10. REMOVABLE ROOF SECTION ABOVE, SEE ROOF PLAN.

- general notes:**
- A. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD; NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.
 - B. GYPSUM WALLBOARD APPLICATION & FINISHING AT ALL EXPOSED SURFACES TO COMPLY WITH SPECIFICATIONS AND/OR WITH AWC LEVEL 5.
 - C. UNLESS NOTED OTHERWISE ALL EXTERIOR WALLS ARE DIMENSIONED TO FACE OF STUD.
 - D. UNLESS NOTED OTHERWISE ALL INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF STUD.
 - E. UNLESS DIMENSIONED OTHERWISE INTERIOR DOORS SHALL BE LOCATED 4" FROM ADJACENT PARTITION.
 - G. CONTRACTOR TO PROVIDE SOLID BLOCKING IN WALLS TO SUPPORT ALL WALL MOUNTED ITEMS.
 - H. SEE 02.15 FOR WALL TYPES.



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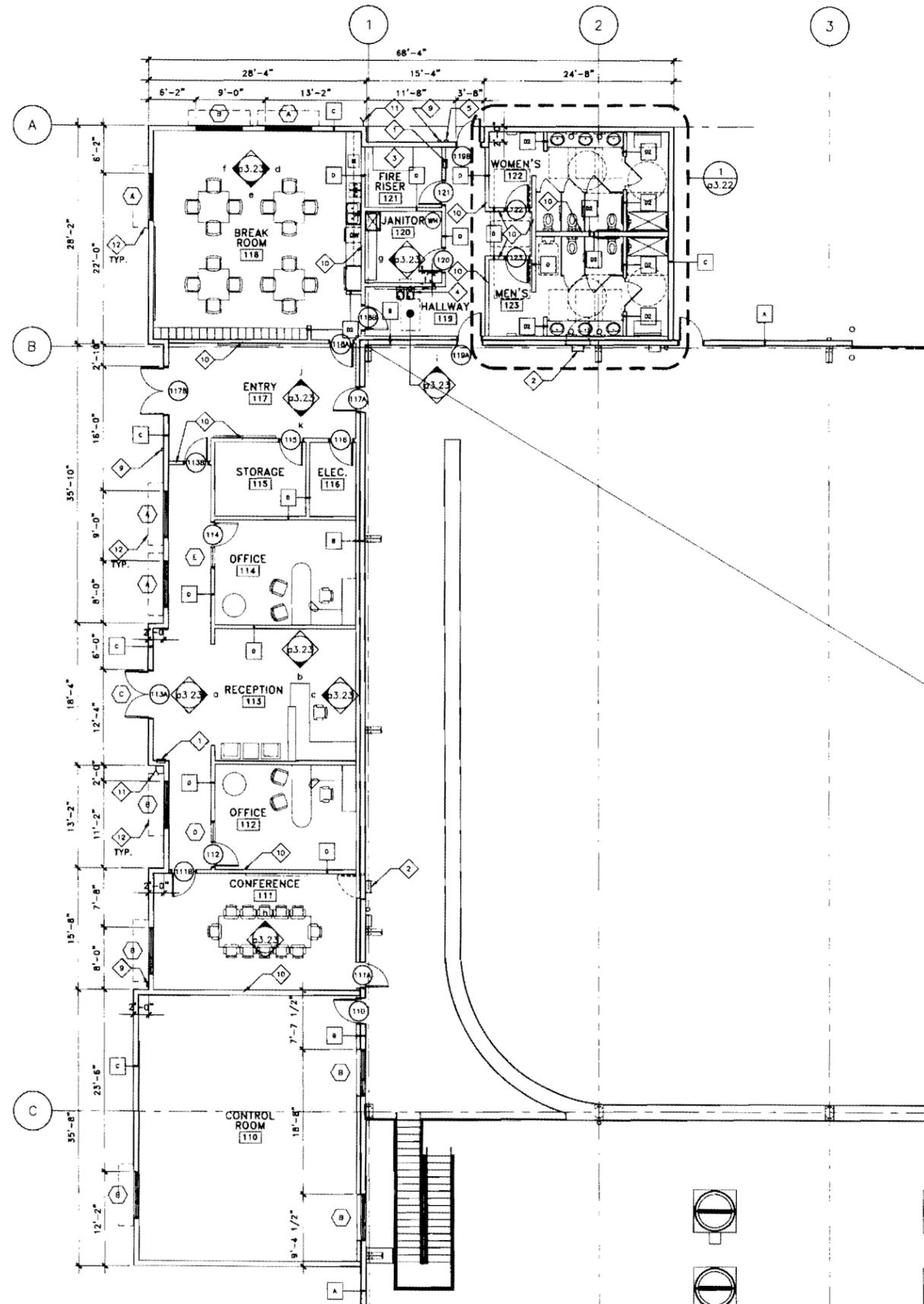
dynamic energy, llc
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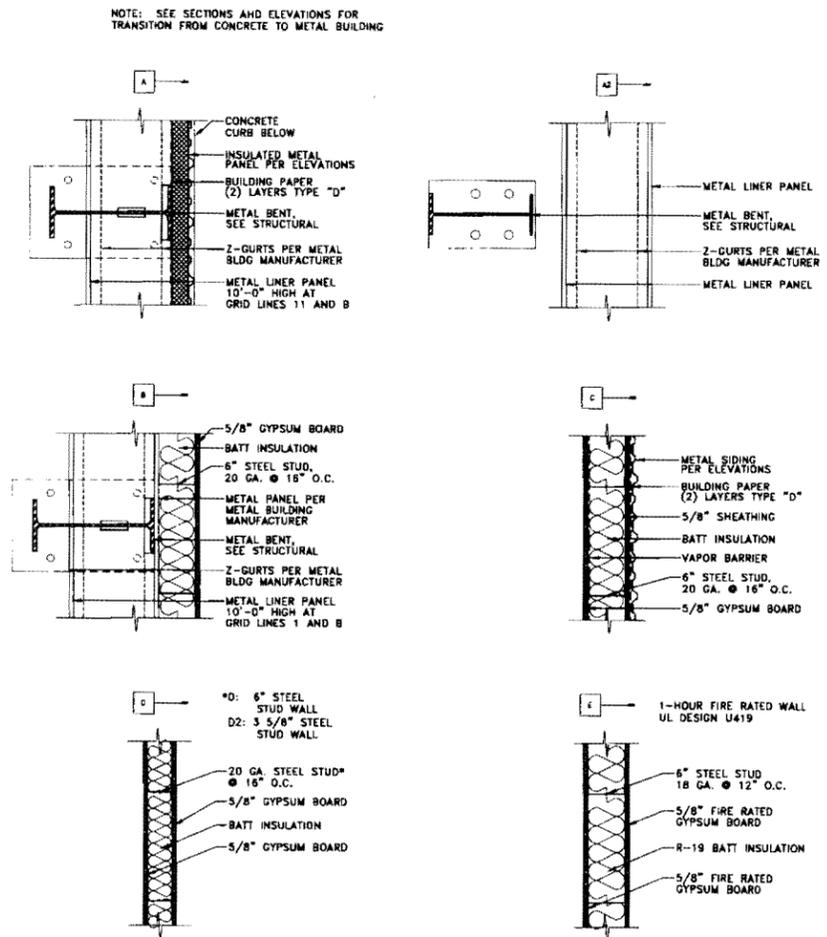
construction documents

floor plan
a2.12



1) enlarged floor plan
SCALE: 1/8" = 1'-0"

wall types:



◆ **keynotes:**

1. RECESSED PORTABLE FIRE EXTINGUISHER AS SPECIFIED, SEE 2/05.11.
2. ROOF ACCESS LADDER WITH DOOR ABOVE, SEE 1/02.44.
3. FIRE RISER, SEE MECHANICAL DRAWINGS.
4. DRINKING FOUNTAINS, SEE PLUMBING DRAWINGS.
5. KNOX BOX, SEE EXTERIOR ELEVATIONS.
6. TACTILE EXIT SIGNAGE ON WALL NEAR DOORWAY, SEE 7/05.11.
7. TACTILE SIGNAGE, SEE 7/05.11.
8. FIRE ALARM ANNUNCIATOR PANEL; RE: ELECTRICAL DRAWINGS.
9. PRE-FINISHED GUTTER AND DOWNSPOUT, SEE ROOF PLAN.
10. WALL TO TERMINATE AT UNDERSIDE OF ROOF DECK ABOVE.
11. HOSE BIB, SEE PLUMBING DRAWINGS.
12. WINDOW AWNING ABOVE, SEE EXTERIOR ELEVATIONS AND 11/05.11.
13. FIRE ALARM PANEL; RE: ELECTRICAL DRAWINGS.

general notes:

- A. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD; NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.
- B. GYPSUM WALLBOARD APPLICATION & FINISHING AT ALL EXPOSED SURFACES TO COMPLY WITH SPECIFICATIONS AND/OR WITH AWC LEVEL 5.
- C. UNLESS NOTED OTHERWISE ALL EXTERIOR WALLS ARE DIMENSIONED TO FACE OF STUD.
- D. UNLESS NOTED OTHERWISE ALL INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF STUD.
- E. UNLESS DIMENSIONED OTHERWISE INTERIOR DOORS SHALL BE LOCATED 4" FROM ADJACENT PARTITION.
- G. CONTRACTOR TO PROVIDE SOLID BLOCKING IN WALLS TO SUPPORT ALL WALL MOUNTED ITEMS.
- H. ALL INTERIOR PARTITION WALLS ARE TO EXTEND 6" MIN. ABOVE ADJACENT CEILING UNLESS NOTED OTHERWISE.



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ada county waste to energy facility
10319 seaman's gulch road
ada county, idaho 83714

revision:

SUBMITTAL TO IDEQ

project: 100910
date: 05.17.12
drawn: mb.tb
checked: cp.ae

construction documents

enlarged floor plan

a2.13



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 ada county, idaho 83714

revision:

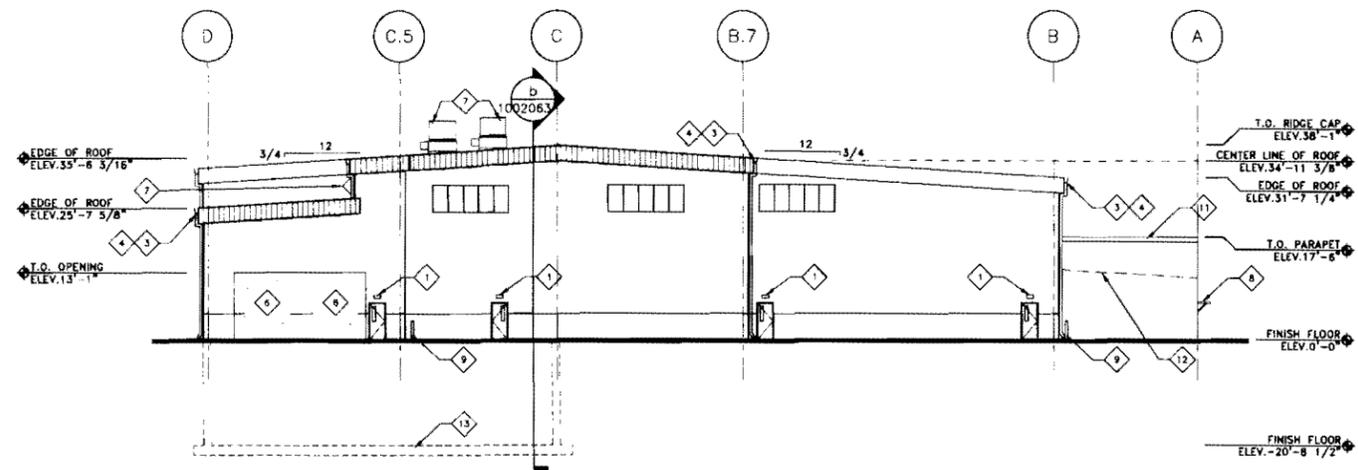
SUBMITTAL TO IDEQ

project: 100910
 date: 05.17.12
 drawn: mb.tb
 checked: cp.as

construction documents

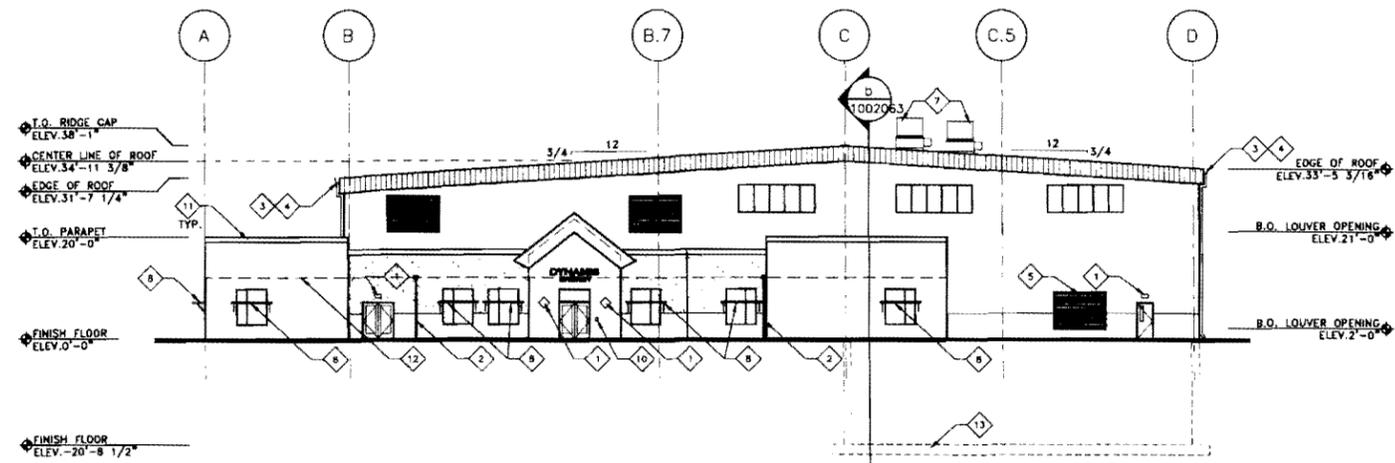
exterior elevations

a3.11



a) east elevation

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



b) west elevation

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

hatch patterns

- 4" INSULATED ROOF PANEL - COLOR PEARL GRAY
NUCOR - STANDING SEAM ROOF PROFILE-SR2
- TRANSLUCENT WALL PANEL
NUCOR - AC0100PE - 5'-4" TALL
- 2 1/2" INSULATED PANEL - COLOR BRICK RED
NUCOR - HIGH RIB PROFILE-HR3
- 2 1/2" INSULATED WALL PANEL - COLOR PEARL GRAY
NUCOR - DOUBLE MESA PROFILE-DM40
- NON-INSULATED PANEL AT WALL TYPE C AT OFFICE
SEE FLOOR PLAN
- WALL PANEL (NON-INSULATED) - COLOR REGAL WHITE
NUCOR - HEAVY EMBOSSED PROFILE-HE40
- CONCRETE WALL

keynotes:

1. EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
2. THROUGH WALL SCUPPER AND DOWNSPOUT.
3. GUTTER.
4. DOWNSPOUT.
5. LOUVERED OPENING, COORDINATE EXACT SIZE AND LOCATION WITH EQUIPMENT DRAWINGS.
6. EQUIPMENT OPENING, COORDINATE EXACT LOCATION WITH EQUIPMENT DRAWINGS.
7. MECHANICAL UNIT, SEE MECHANICAL AND EQUIPMENT DRAWINGS.
8. WINDOW AWNING, SEE DETAIL 11/a5.11.
9. BOLLARD, SEE DETAIL 6/a5.11.
10. KNOX BOX, VERIFY FINAL LOCATION WITH FIRE MARSHAL.
11. PARAPET CAP, SEE 12/a2.45.
12. LINE OF ROOF BEYOND, SEE ROOF PLAN.
13. LINE OF PRIMARY PIT BEYOND, SEE FLOOR PLAN.

general notes:

- A. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD; NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.



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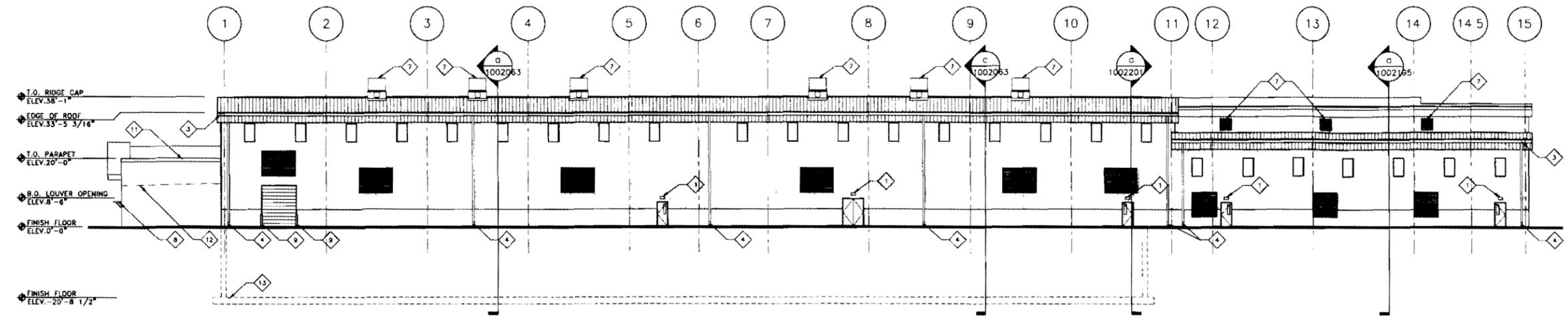
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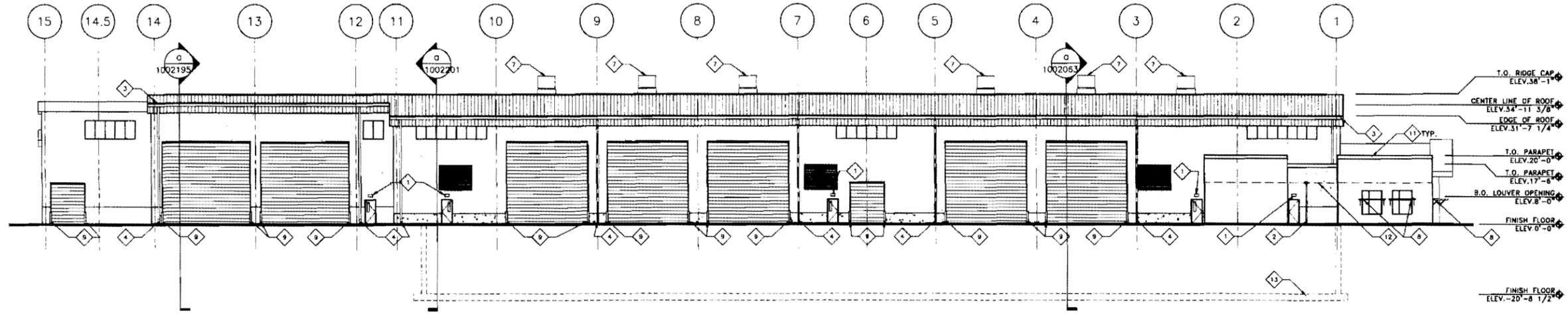
construction documents

exterior elevations
a3.12



c) south elevation

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



d) north elevation

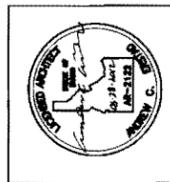
SCALE: 1/16" = 1'-0"

hatch patterns	
	4" INSULATED ROOF PANEL - COLOR PEARL GRAY NUCOR - STANDING SEAM ROOF PROFILE-SR2
	TRANSLUCENT WALL PANEL NUCOR - ACD100PE - 5'-4" TALL
	2 1/2" INSULATED PANEL - COLOR BRICK RED NUCOR - HIGH RIB PROFILE-HR3
	2 1/2" INSULATED WALL PANEL - COLOR PEARL GRAY NUCOR - DOUBLE MESA PROFILE-DM40 NON-INSULATED PANEL AT WALL TYPE C AT OFFICE SEE FLOOR PLAN
	WALL PANEL (NON-INSULATED) - COLOR REGAL WHITE NUCOR - HEAVY EMBOSSED PROFILE-HE40
	CONCRETE WALL

- ◆ keynotes:
- EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
 - THROUGH WALL SCUPPER AND DOWNSPOUT.
 - GUTTER.
 - DOWNSPOUT.
 - LOUVERED OPENING, COORDINATE EXACT SIZE AND LOCATION WITH EQUIPMENT DRAWINGS.
 - EQUIPMENT OPENING, COORDINATE EXACT LOCATION WITH EQUIPMENT DRAWINGS.
 - MECHANICAL UNIT, SEE MECHANICAL AND EQUIPMENT DRAWINGS.
 - WINDOW AWNING, SEE DETAIL 11/a5.11.
 - BOLLARD, SEE DETAIL 6/a5.11.
 - KNOX BOX, VERIFY FINAL LOCATION WITH FIRE MARSHAL.
 - PARAPET CAP, SEE 12/a2.43.
 - LINE OF ROOF BEYOND, SEE ROOF PLAN.
 - LINE OF PRIMARY PIT BEYOND, SEE FLOOR PLAN.

general notes:
A. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD; NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.

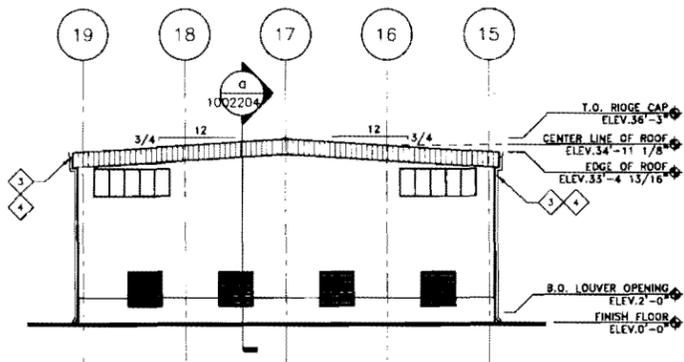
exterior elevations
a3.12



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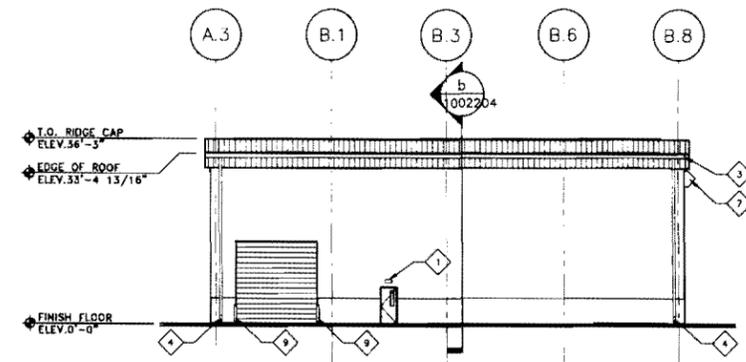
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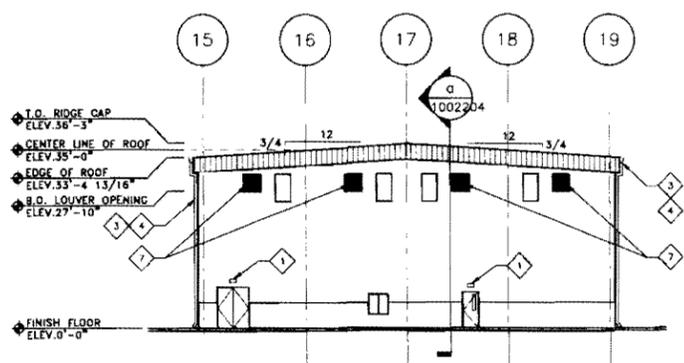
a) north elevation

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



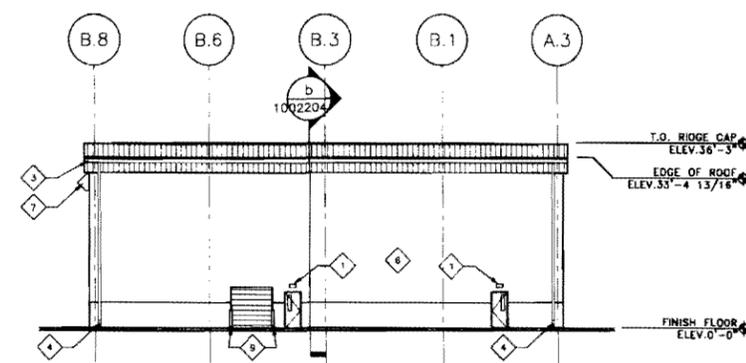
b) west elevation

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



c) south elevation

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



d) east elevation

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

hatch patterns

	4" INSULATED ROOF PANEL - COLOR PEARL GRAY NUCOR - STANDING SEAM ROOF PROFILE-SR2
	TRANSLUCENT WALL PANEL NUCOR - ACC100PE - 5'-4" TALL
	2 1/2" INSULATED PANEL - COLOR BRICK RED NUCOR - HIGH RIB PROFILE-HR3
	2 1/2" INSULATED WALL PANEL - COLOR PEARL GRAY NUCOR - DOUBLE MESA PROFILE-DM40
	NON-INSULATED PANEL AT WALL TYPE C AT OFFICE SEE FLOOR PLAN
	WALL PANEL (NON-INSULATED) - COLOR REGAL WHITE NUCOR - HEAVY EMBOSSED PROFILE-HE40
	CONCRETE WALL

- keynotes:**
- EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
 - THROUGH WALL SCUPPER AND DOWNSPOUT.
 - CUTTER.
 - DOWNSPOUT.
 - LOUVERED OPENING, COORDINATE EXACT SIZE AND LOCATION WITH EQUIPMENT DRAWINGS.
 - EQUIPMENT OPENING, COORDINATE EXACT LOCATION WITH EQUIPMENT DRAWINGS.
 - MECHANICAL UNIT, SEE MECHANICAL AND EQUIPMENT DRAWINGS.
 - WINDOW AWNING, SEE DETAIL 11/a5.11.
 - BOLLARD, SEE DETAIL 6/a5.11.
 - KNOX BOX, VERIFY FINAL LOCATION WITH FIRE MARSHAL.
 - PARAPET CAP, SEE 12/a2.43.
 - LINE OF ROOF BEYOND, SEE ROOF PLAN.
 - LINE OF PRIMARY PIT BEYOND, SEE FLOOR PLAN.

general notes:

A. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD; NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.

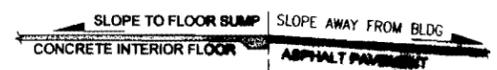
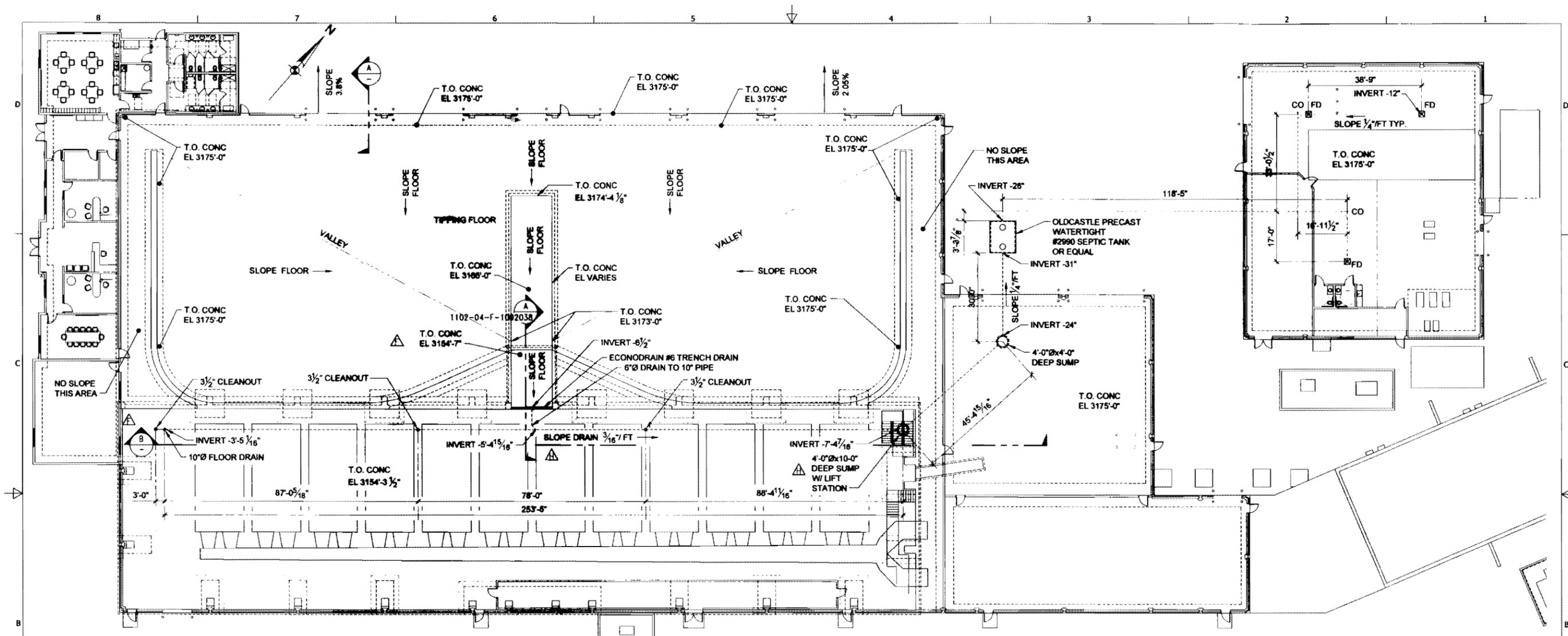
revision:

SUBMITTAL TO IDEQ

project: 100910
 date: 05.17.12
 drawn: mb.tb
 checked: cp.oe

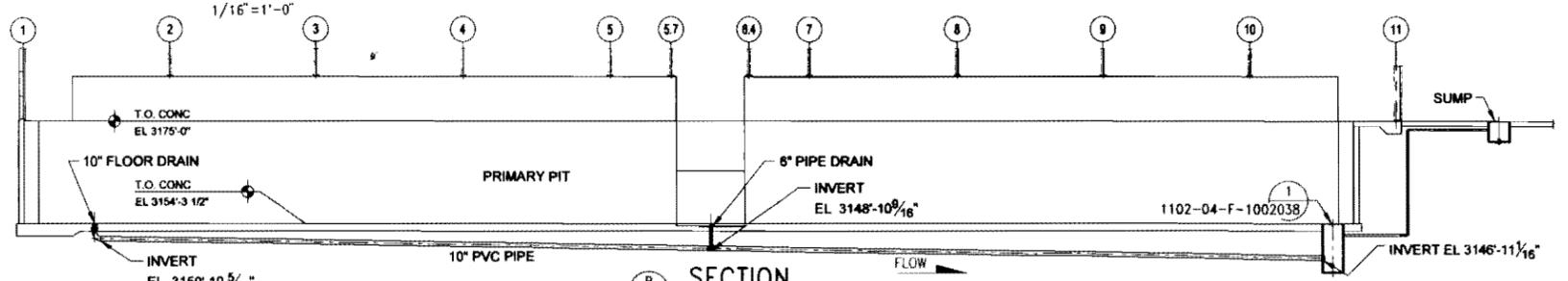
construction documents

exterior elevations
a3.13



LEACHATE DRAINAGE & PIPING PLAN

SECTION A
1/16" = 1'-0"



SECTION B
1/16" = 1'-0"

GENERAL NOTES:

- A. FOR PROJECT NOTES & SPECIFICATIONS SEE DRAWING #1102-01-G-1002021 & 1002022
- B. HOLDING TANK TO HAVE BOTH AUDIBLE AND VISUAL ALARM
- C. HOLDING TANK ALARMS SHALL BE SET TO SIGNAL AT THE "TIME-TO-PUMP" AND "EXCEEDING RESERVE STORAGE VOLUME" LEVELS
- D. TANK TO BE CERTIFIED WATERTIGHT IN ADHERENCE WITH IDAHO STATE PLUMBING CODE 710.8
- E. ALL CONNECTIONS TO BE WATERTIGHT AND TESTED IN ACCORDANCE TO IDAHO STATE PLUMBING CODE 712.0
- F. PVC PIPE AND FITTINGS CONFORMING TO ASTM F848 STANDARDS TO BE USED IN ALL UNDER CONCRETE LOCATIONS
- G. PVC PIPE AND FITTINGS CONFORMING TO ASTM D1785 AND D2486 MAY BE USED FOR ALL LOCATIONS
- H. ALL WALL PENETRATIONS SHALL BE SLEEVED
- I. OUTLET ASSEMBLY OF THE HOLDING TANK USED FOR TURBINE BUILDING FLOOR DRAIN (INLET, TANK LID ACCESS OPENINGS SHALL BE UTILIZED FOR WASTE WATER REMOVAL
- J. LIFT STATION SHALL HAVE EFFLUENT PUMP, ON/OFF FLOATS, ALARM FLOATS (LLL, LL, HL) COMPLETE INTERNAL PIPING SYSTEM, CHECK VALVE, DUPLEX GUIDE BARS
- K. LIFT STATION DISCHARGE LINE TO BE DOUBLE WALLED AND HAVE AUTOMATIC LINE LEAK DETECTOR

- L. HYDROPHILIC RUBBER WATER STOP SHALL BE USED ON ALL HORIZONTAL CAST-IN-PLACE CONCRETE JOINTS. HYDROPHILIC AGENT SHALL BE HOMOGENEOUSLY DISTRIBUTED THROUGHOUT ACRYLATE POLYMER MATRIX TO PROVIDE CONSISTENT SEALING PERFORMANCE
- M. PVC WATERSTOPS SHALL BE USED ON ALL VERTICAL CAST-IN-PLACE CONCRETE JOINTS. WATERSTOPS SHALL SPAN THE JOINT, FORMING A CONTINUOUS, WATERTIGHT DIAPHRAGM THAT PREVENTS THE PASSAGE OF FLUID
- N. LIFTING STATION SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE TO IDAHO PLUMBING CODE 710.2, 710.8, AND TESTED AND APPROVED AS REQUIRED BY 103.8.3.

NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE
H	IDEQ DESIGN PLAN APPROVAL APP	JRM	7/3/12	B	ISSUED FOR REVIEW & COMMENT	BEH	4/24/12
G	IDEQ DESIGN PLAN APPROVAL APP	BEH	5/18/12	A	ISSUED FOR REVIEW & COMMENT	BEH	4/24/12

NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE
F	ISSUED FOR REFERENCE ONLY	BEH	5/14/12	E	ISSUED FOR REVIEW & COMMENT	JRM	5/10/12
E	ISSUED FOR REVIEW & COMMENT	JRM	5/10/12	D	ISSUED FOR REVIEW & COMMENT	JRM	5/06/12
D	ISSUED FOR REVIEW & COMMENT	JRM	5/06/12	C	ISSUED FOR REVIEW & COMMENT	BEH	4/25/12

ADA COUNTY, IDAHO

EVERGREEN ENGINEERING
Engineering and Construction Services

EUGENE, OREGON
(503) 684-4771 FAX (503) 684-5700
www.evergreen-engineering.com

PROJECT NUMBER: 1102-10-P-1002104
JOB FILE: 1102-10-P-1002104.dwg

DATE: 2/14/14

NO.	REVISIONS	BY	DATE	NO.	REVISIONS	BY	DATE
1	ISSUED FOR REFERENCE ONLY	BEH	5/14/12	2	ISSUED FOR REVIEW & COMMENT	JRM	5/10/12
2	ISSUED FOR REVIEW & COMMENT	JRM	5/10/12	3	ISSUED FOR REVIEW & COMMENT	JRM	5/06/12
3	ISSUED FOR REVIEW & COMMENT	JRM	5/06/12	4	ISSUED FOR REVIEW & COMMENT	BEH	4/25/12

Dynamis Energy LLC
776 E. Riverside Dr. Ste. 150
Eagle, ID 83616

DYNAMIS ENERGY

TITLE: **408T WASTE TO ENERGY FACILITY LEACHATE DRAINAGE & PIPING PLAN**

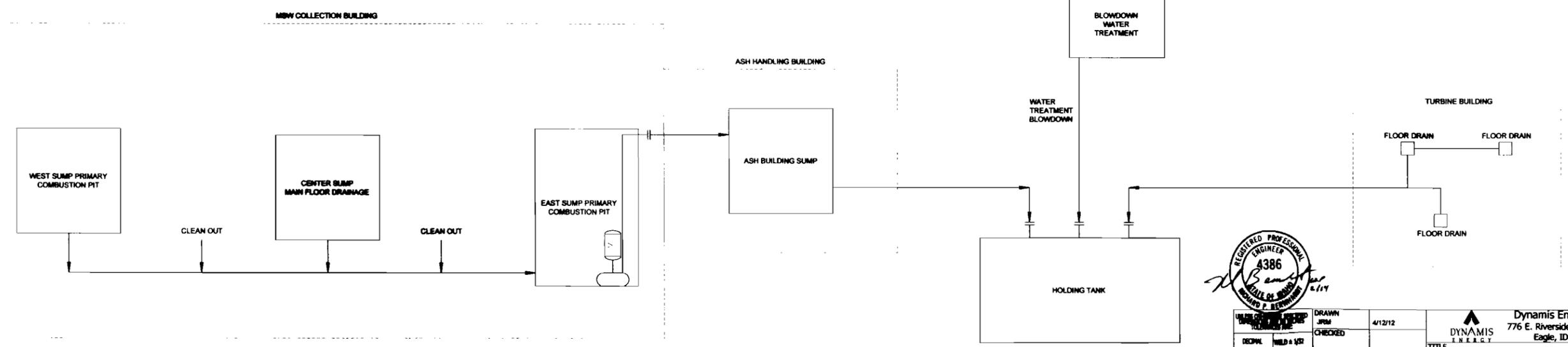
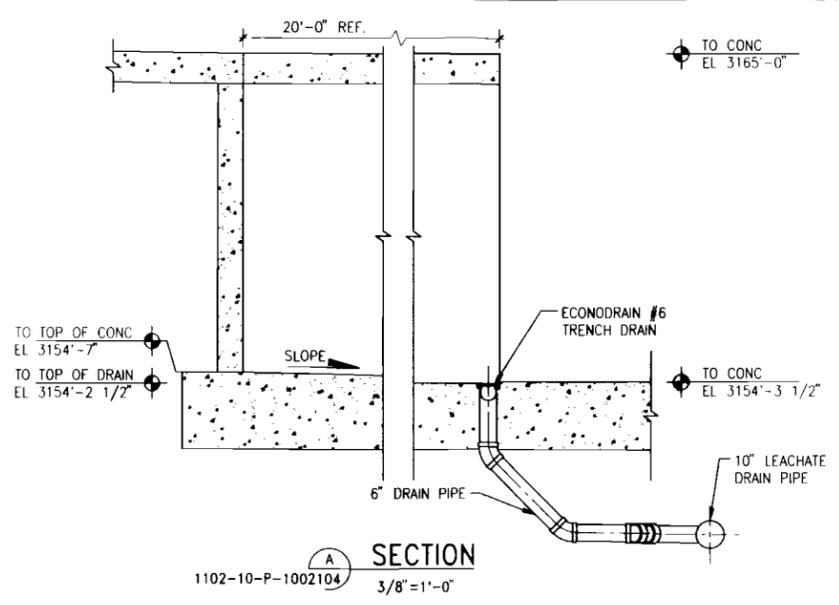
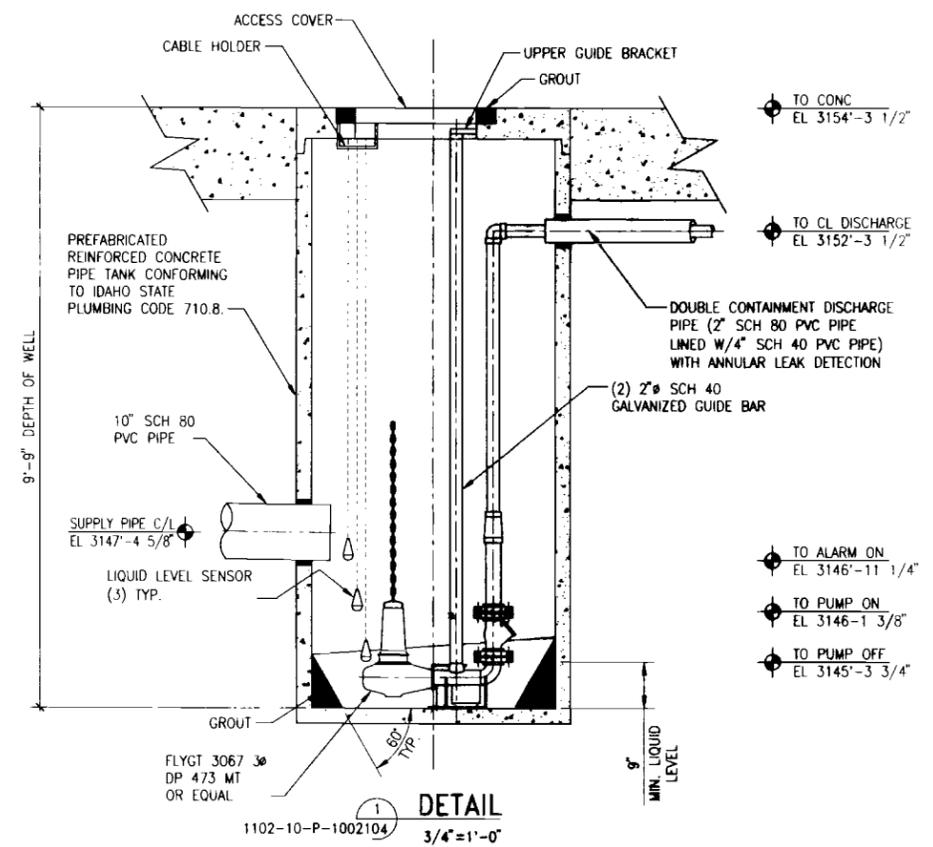
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DWG NO: 1102-10-P-1002104

SHEET 1 OF 1



8 7 6 5 4 3 2 1



NO.	REVISIONS	BY	DATE
D	IDEQ DESIGN PLAN APPROVAL APP	JFM	7/3/12
C	IDEQ DESIGN PLAN APPROVAL APP	BEH	5/18/12
B	FOR REFERENCE ONLY	BEH	5/15/12
A	FOR REFERENCE ONLY	JFM	5/28/12

ADA COUNTY, IDAHO

REGISTERED PROFESSIONAL ENGINEER
4386
Edward P. Berwin
 EDWARD P. BERWIN

Engineering and Construction Services
 EUGENE, OREGON
 (541) 484-4771 FAX: (541) 484-4760
 www.adaengineering.com

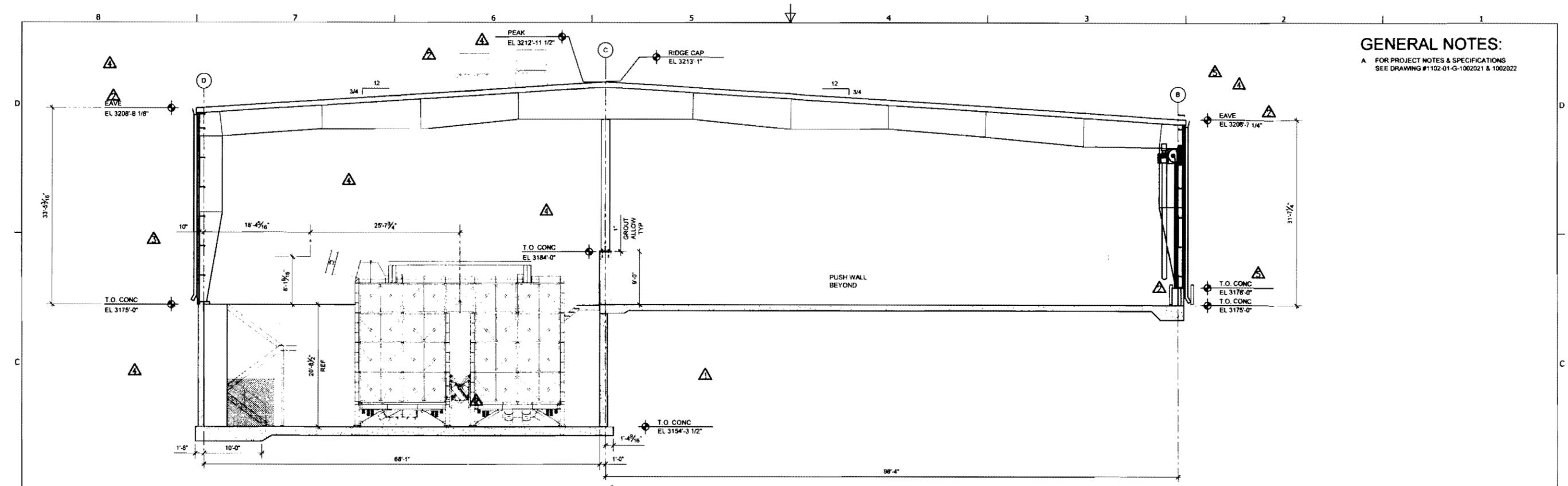
CS JOB NUMBER: **2540.1**
 APP: JF

EE DRAWING NUMBER: 1102-04-F-1002038 DWG FILE: 1102-04-F-1002038.dwg

DESIGNED	JFM	4/12/12
CHECKED	JFM	
DRAWN	JFM	
DATE		
SCALE	NONE	
TITLE	LEACHATE DRAINAGE FLOW DIAGRAM	
DWG NO	1102-04-F-1002038	REV D
SHEET	1	OF 1

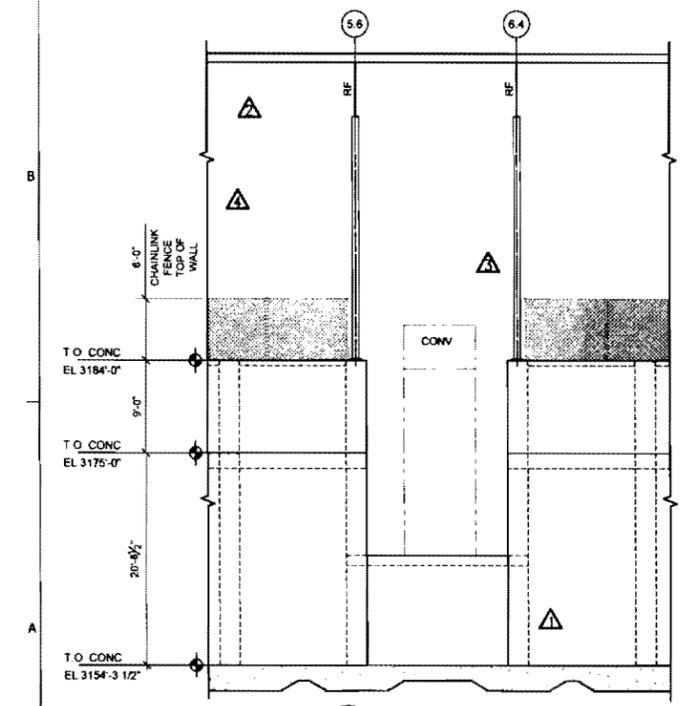
Dynamis Energy LLC,
 776 E. Riverside Dr. Ste. 150
 Eagle, ID 83616

1102-04-F-1002038.dwg - 1102-04-F-1002038.dwg - 1102-04-F-1002038.dwg - 1102-04-F-1002038.dwg - 1102-04-F-1002038.dwg

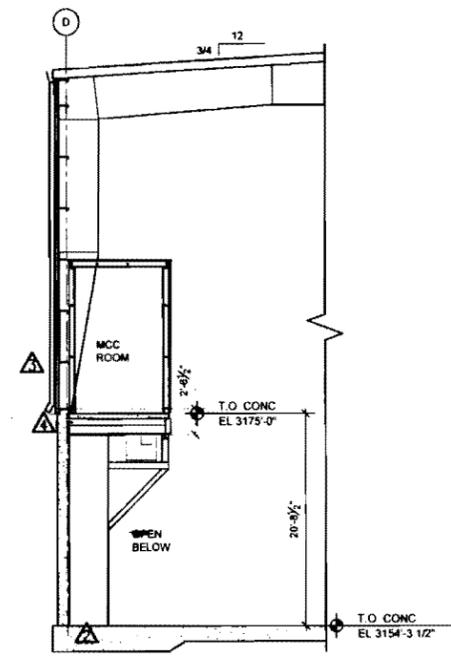


GENERAL NOTES:
 A FOR PROJECT NOTES & SPECIFICATIONS
 SEE DRAWING #1102-01-G-1002021 & 1002022

SECTION @ COL LINE 3
 1002015, 1002059 1/8"=1'-0"



SECTION
 1002059 1/8"=1'-0"



PARTIAL SECTION @ COL LINE 9
 1002059 1/8"=1'-0"

NO.	REVISIONS	BY	DATE
6	ISSUED FOR PERMIT REVIEW	BCS	7/6/12
5	IDEG FOR THE DESIGN PLAN APPROVAL APP	NGJ	05/18/12
4	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/28/12
3	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/7/12
2	ISSUED FOR BID W/ REVISIONS	BEH	3/5/12
1	ISSUED FOR BID W/ CHANGES	BEH	2/24/12
0	ISSUED FOR BID WAS DWG 1102-01-B-1002061	BEH	2/23/12

ADA COUNTY, IDAHO

EVERGREEN ENGINEERING
 Engineering and Construction Services
 EUGENE, OREGON
 (503) 464-4771 FAX: (503) 464-4778
 www.evergreenengineering.com

EC JOB NUMBER: **2540.1**

APP: JP

EC DRAWING NUMBER: 1102-09-B-1002061 DWG FILE: 1102-09-B-1002061.dwg

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	DRAWN NGJ	12/05/11
CHECKED	CHECKED	
X .1 CHAMFERS .45"	QA	
XX .02 ANGLES .1"	MFG	
XXX .005 CAST .1/8"	APPROVED JP	
FRACTIONS 1/16	MATERIAL SEE TABLE	FINISH N/A
THIRD ANGLE PROJECTION		

Dynamis Energy LLC
 776 E. Riverside Dr. Ste. 150
 Eagle, ID 83616

DYNAMIS ENERGY

408T WASTE TO ENERGY FACILITY MAIN BUILDING SECTIONS & DETAILS

SIZE: D DWG NO: 1102-09-B-1002063 REV: 6

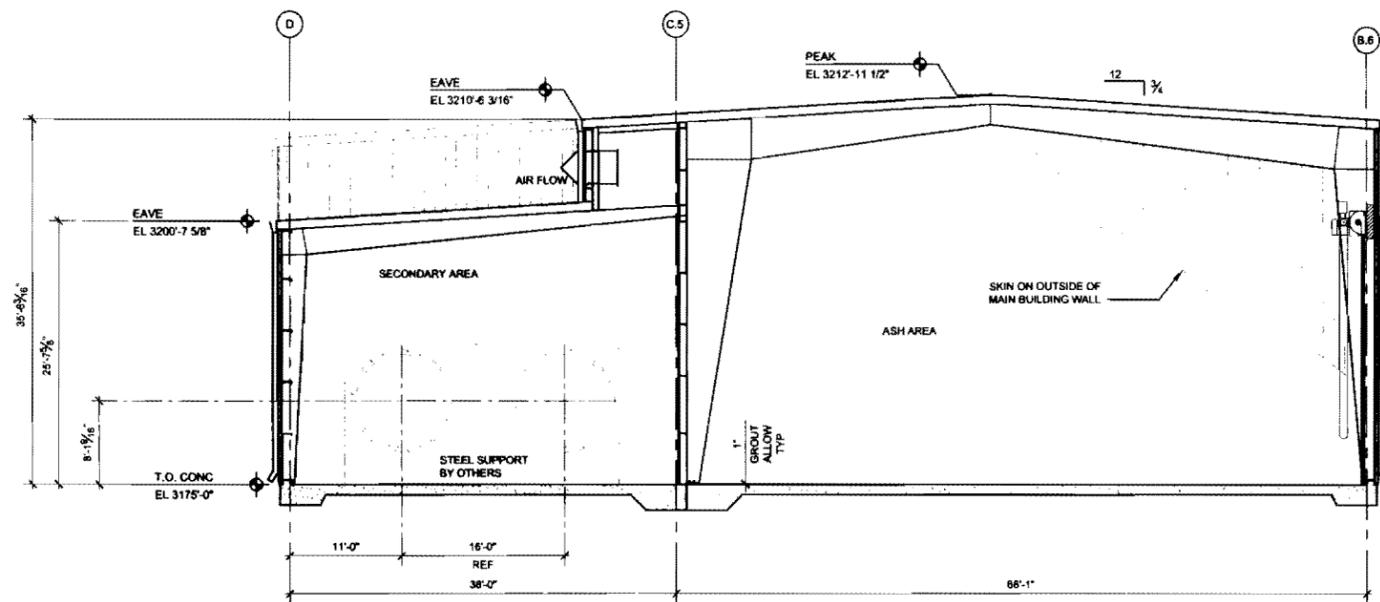
SCALE: NOTED SHEET 1 OF 1



11/15/11 10:45 AM C:\Users\cody.f.kenny\AppData\Local\Temp\1102-09-B-1002061.dwg (1102-09-B-1002061.dwg)

GENERAL NOTES:

A FOR PROJECT NOTES & SPECIFICATIONS
SEE DRAWING #1102-01-G-1002021 & 1002022



SECTION
1002015 1002059
1/8"=1'-0"



NO.	REVISIONS	BY	DATE
5	ISSUED FOR PERMIT REVIEW	BCS	7/6/12
4	IDEQ FOR THE DESIGN PLAN APPROVAL APP	NGJ	05/18/12
3	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/29/12
2	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/7/12
1	ISSUED FOR BID W/ REVISIONS	BEH	3/5/12
0	ISSUED FOR BID WAS DWG 1102-01-B-1002060	BEH	2/23/12

ADA COUNTY, IDAHO

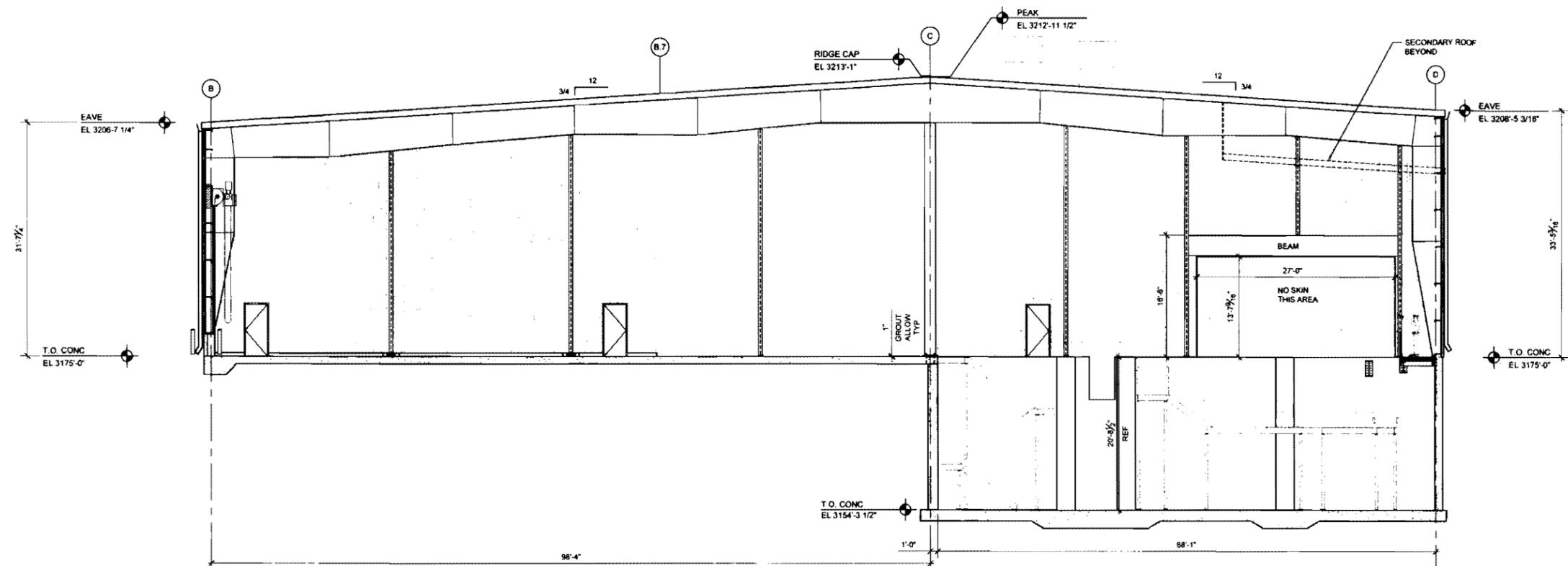
EVERGREEN ENGINEERING
Engineering and Construction Services
EMMETT, OREGON
(503) 846-7711 FAX (503) 846-4756
www.evergreenengineering.com

PROJECT NUMBER: 2540.1
DWG FILE: 1102-09-B-1002195.dwg

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE:	DRAWN NGJ	12/09/11	Dynamis Energy LLC, 776 E. Riverside Dr. Ste. 150 Eagle, ID 83616
DECIMAL X ±.1 X ±.02 X ±.005	CHECKED JP		
ANGLES X ±.1 X ±.05 X ±.01	APPROVED JP		408T WASTE TO ENERGY FACILITY MAIN BUILDING SECTIONS & DETAILS
FRACTIONS X 1/16 X 1/8 X 1/4	MATERIAL SEE TABLE	FINISH N/A	
THIRD ANGLE PROJECTION			SIZE: D DWG NO: 1102-09-B-1002195 SCALE: NOTED SHEET 1 OF 1

GENERAL NOTES:

A FOR PROJECT NOTES & SPECIFICATIONS
SEE DRAWING #1102-01-G-1002021 & 1002022.



SECTION @ COL LINE 10.6
1002015, 1002059 1/8"=1'-0"



NO	REVISIONS	BY	DATE
6	ISSUED FOR PERMIT REVIEW	BCS	7/6/12
5	IDEO FOR THE DESIGN PLAN APPROVAL APP	NGJ	05/18/12
4	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/29/12
3	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/7/12
2	ISSUED FOR BID W/ REVISIONS	BEH	3/5/12
1	ISSUED FOR BID W/ CHANGES	BEH	2/24/12
0	ISSUED FOR BID WAS DWG 1102-01-B-1002059	BEH	2/23/12

EVERGREEN ENGINEERING
Engineering and Construction Services
EMERSON, OREGON
1102-09-8-1002201

2540.1

UNLESS OTHERWISE SPECIFIED	DRAWN	12/12/11
TOLERANCES ARE:	CHECKED	
DECIMAL	WELD	1/32
X	±.1	CHAMFERS
XX	±.02	ANGLES
XXX	±.005	POST
	FRACTIONS	1/16
	THIRD ANGLE PROJECTION	
	APPROVED	
	J.P.	
	MATERIAL	SEE TABLE
	FINISH	N/A

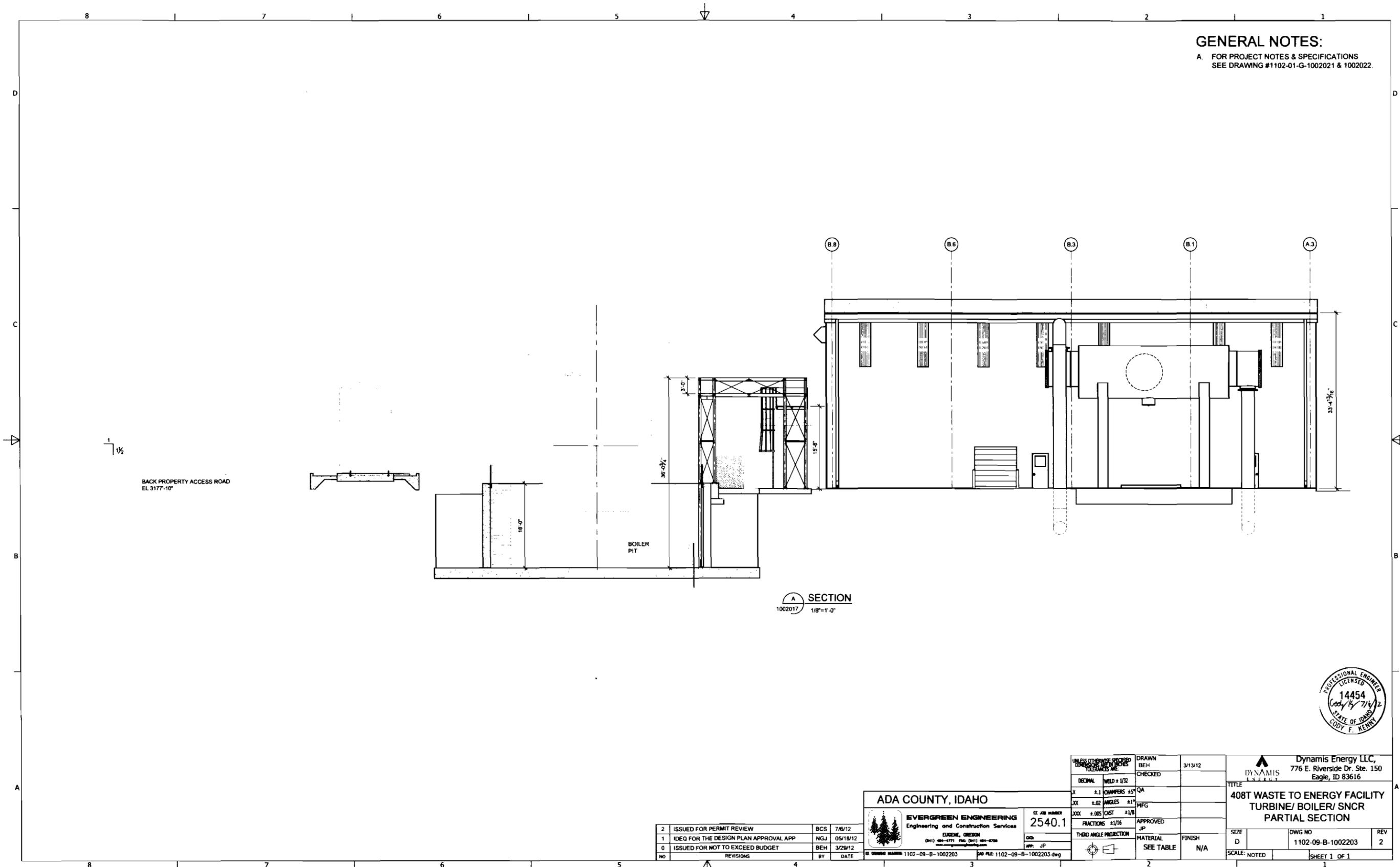
Dynamis Energy LLC
776 E. Riverside Dr. Ste. 150
Eagle, ID 83616

**408T WASTE TO ENERGY FACILITY
MAIN BUILDING
SECTIONS & DETAILS**

SIZE: D DWG NO: 1102-09-B-1002201 REV: 6
SCALE: 3/16"=1'-0" SHEET 1 OF 1

GENERAL NOTES:

A. FOR PROJECT NOTES & SPECIFICATIONS
SEE DRAWING #1102-01-G-1002021 & 1002022.



A SECTION
1002017
1/8"=1'-0"



NO	REVISIONS	BY	DATE
2	ISSUED FOR PERMIT REVIEW	BCS	7/6/12
1	IDEQ FOR THE DESIGN PLAN APPROVAL APP	NGJ	05/18/12
0	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/29/12

ADA COUNTY, IDAHO

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www.evergreeneng.com

EX. JOB NUMBER
2540.1

DATE
APP: JP

SEE DRAWING NUMBER: 1102-09-B-1002203 DWG FILE: 1102-09-B-1002203.dwg

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FOLLOWING ARE:	DRAWN BEH	3/13/12
DECIMAL WELD ± 1/32	CHECKED	
X ±.1 CHAMFERS ±.5"	QA	
XX ±.02 ANGLES ±.1"	MFG	
XXX ±.005 CAST ±1/8"	APPROVED JP	
FRACTIONS ±1/16	MATERIAL SEE TABLE	
THIRD ANGLE PROJECTION	FINISH N/A	

Dynamis Energy LLC
776 E. Riverside Dr. Ste. 150
Eagle, ID 83616

DYNAMIS ENERGY

TITLE
**408T WASTE TO ENERGY FACILITY
TURBINE/ BOILER/ SNCR
PARTIAL SECTION**

SIZE
D

DWG NO
1102-09-B-1002203

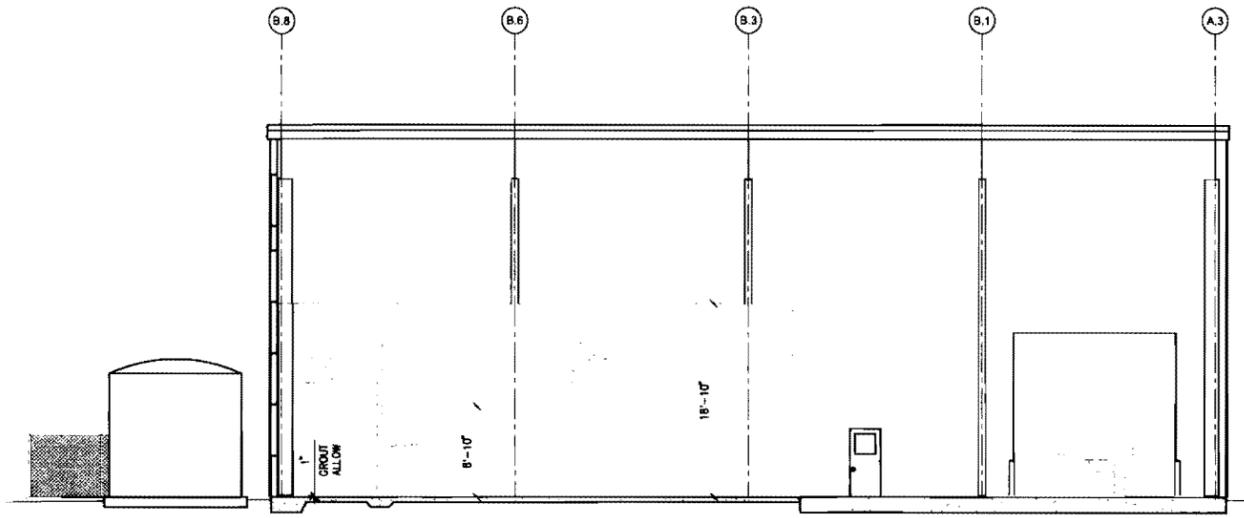
REV
2

SCALE: NOTED

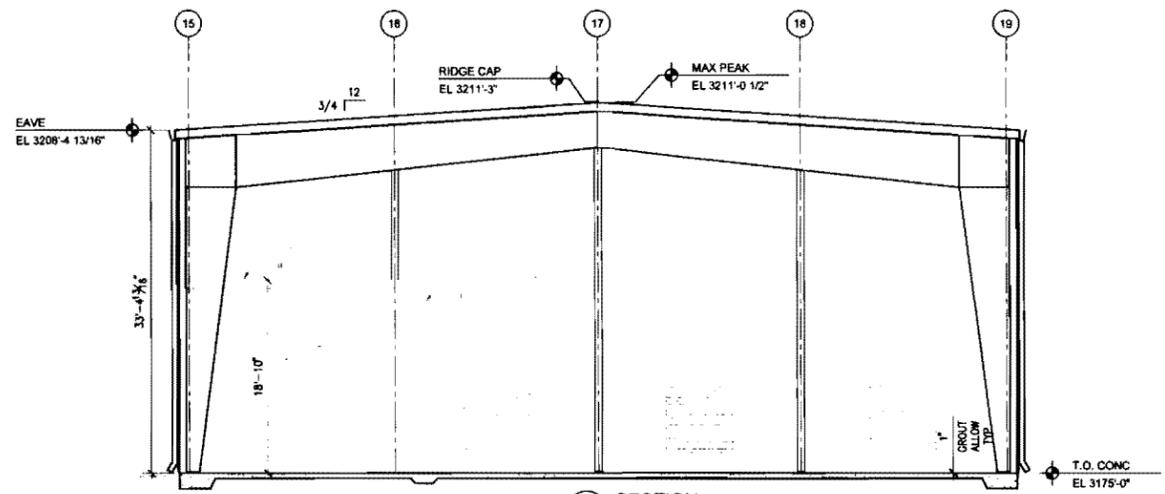
SHEET 1 OF 1

GENERAL NOTES:

A FOR PROJECT NOTES & SPECIFICATIONS
SEE DRAWING #1102-01-G-1002021 & 1002022.



A SECTION
1002018, 1002059 1/8"=1'-0"



B SECTION
1002016, 1002059 1/8"=1'-0"



NO.	REVISIONS	BY	DATE
5	ISSUED FOR PERMIT REVIEW	BCS	7/6/12
4	IDEO FOR THE DESIGN PLAN APPROVAL APP	NGJ	05/18/12
3	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/29/12
2	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/7/12
1	ISSUED FOR BID W/ REVISION	BEH	2/29/12
0	ISSUED FOR BID WAS DWG 1102-01-B-1002065	BEH	2/23/12

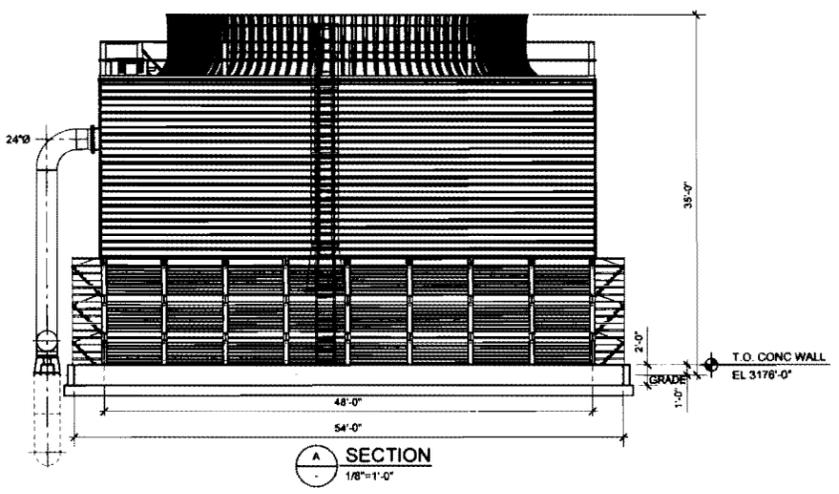
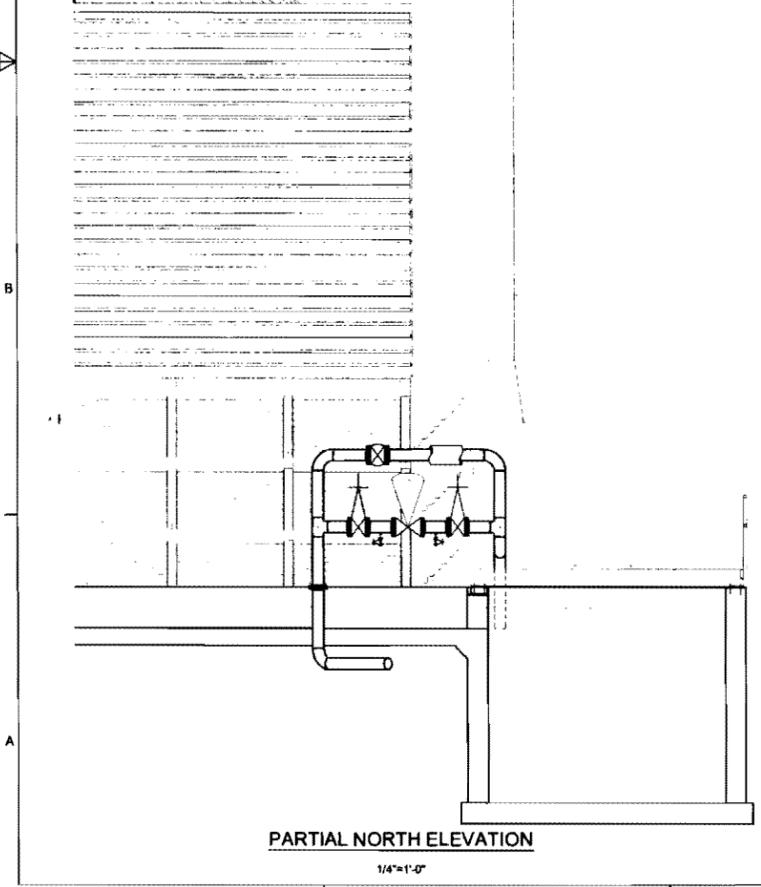
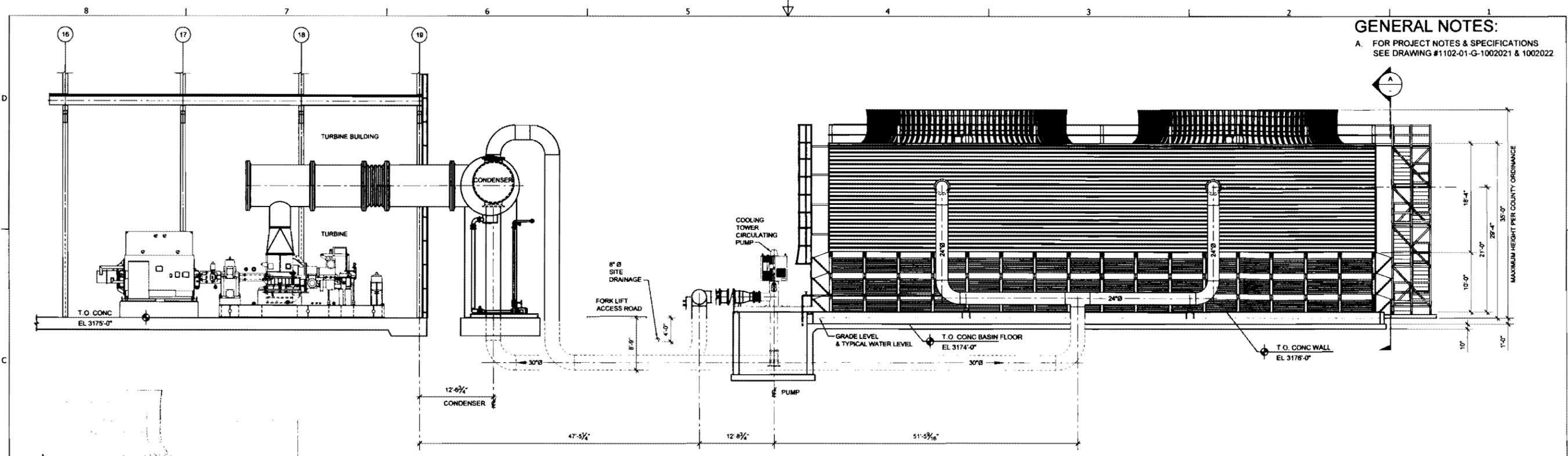
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Engineering and Construction Services
EUGENE, OREGON
(541) 484-4771 FAX (541) 484-4789
www.evergreenengineering.com

PROJECT NUMBER: 2540.1
DWG FILE: 1102-09-B-1002204.dwg

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE:	DRAWN BEH	12/15/11	Dynamis Energy LLC, 776 E. Riverside Dr. Ste. 150 Eagle, ID 83616
TOLERANCES ARE:	CHECKED		
DECIMAL ±.1	WELD ± 1/32	QA	TITLE
XX ±.02	CHAMFERS ±.5	MFG	408T WASTE TO ENERGY FACILITY TURBINE BUILDING SECTIONS
XXX ±.005	ANGLES ±1°	APPROVED	SIZE
FRACCTIONS ±1/16	THIRD ANGLE PROJECTION	JP	D
		MATERIAL	DWG NO
		SEE TABLE	1102-09-B-1002204
		FINISH	REV
		N/A	5
			SCALE: 1/8"=1'-0"
			SHEET 1 OF 1

GENERAL NOTES:
 A. FOR PROJECT NOTES & SPECIFICATIONS
 SEE DRAWING #1102-01-G-1002021 & 1002022



NO.	REVISIONS	BY	DATE
2	ISSUED FOR PERMIT REVIEW	BCS	7/6/12
1	IDEQ FOR THE DESIGN PLAN APPROVAL APP	NGJ	05/18/12
0	ISSUED FOR NOT TO EXCEED BUDGET	BEH	3/23/12

ADA COUNTY, IDAHO

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PROJECT NUMBER: 1102-09-B-1002205
 DRAWING FILE: 1102-09-B-1002205.dwg

DATE: 7/6/12
 DRAWN: BEH
 CHECKED: JP
 APPROVED: JP
 MATERIAL: SEE TABLE
 FINISH: N/A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO SURF UNLESS NOTED	DRAWN: BEH	12/15/11	Dynamis Energy LLC, 776 E. Riverside Dr. Ste. 150 Eagle, ID 83616 DYNAMIS ENERGY
	CHECKED: JP		
DECIMAL: WELD ± 1/32	QA		408T WASTE TO ENERGY FACILITY COOLING TOWER PARTIAL ELEVATIONS
X ±.1 DIMMERS ±1"	MFG		
XX ±.02 ANGLES ±1"	APPROVED: JP	3/13/12	TITLE: 408T WASTE TO ENERGY FACILITY COOLING TOWER PARTIAL ELEVATIONS SIZE: D DWG NO: 1102-09-B-1002205 SCALE: NOTED SHEET 1 OF 1
XXX ±.005 CAST ±1/8"	THIRD ANGLE PROJECTION		REV: 2



erated ARCHITECTS, PA
200 South Street, Suite 202, Ada, Idaho 83702
(208) 223-1001 to 208 223-1002 Fax: 208 223-1003

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ada county, idaho 83714

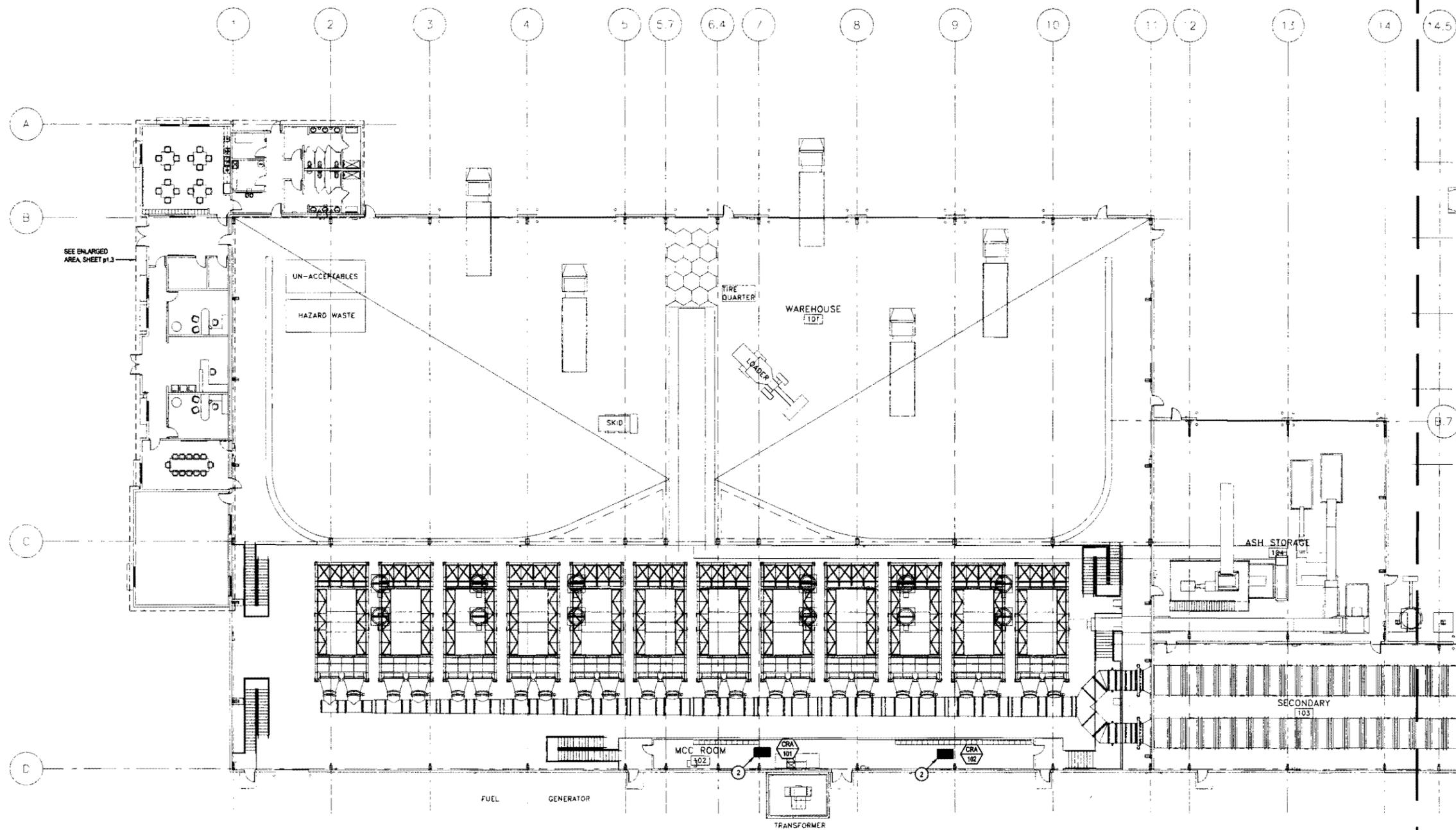
revision:
SUBMITTAL TO IDEC

project: 100910
date: 05.17.12
drawn: aa/mp
checked: cep

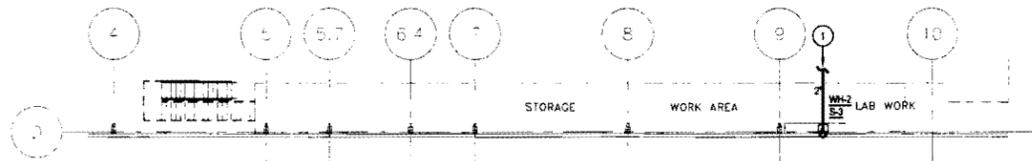
construction documents

waste and vent plan - area 1
p1.1

MUSGROVE ENGINEERING, P.A.
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Boise, Idaho 83705
208 584 0581
www.musgrove.com
OVER 30 YEARS OF EXCELLENCE
project number: 10-299



 **waste and vent plan - area 1**
SCALE: 1/16" = 1'-0"



KEYED NOTES:

- SYMBOL USED FOR NOTE CALLOUT
- 1. RUN 2" WASTE LINE INDIRECT TO SLUMP
- 2. ROUTE CONDENSATE TO TAILPIECE OF S3 BELOW.



Eric Purcell
Professional Engineer
License No. 14890
State of Idaho
10/28/08

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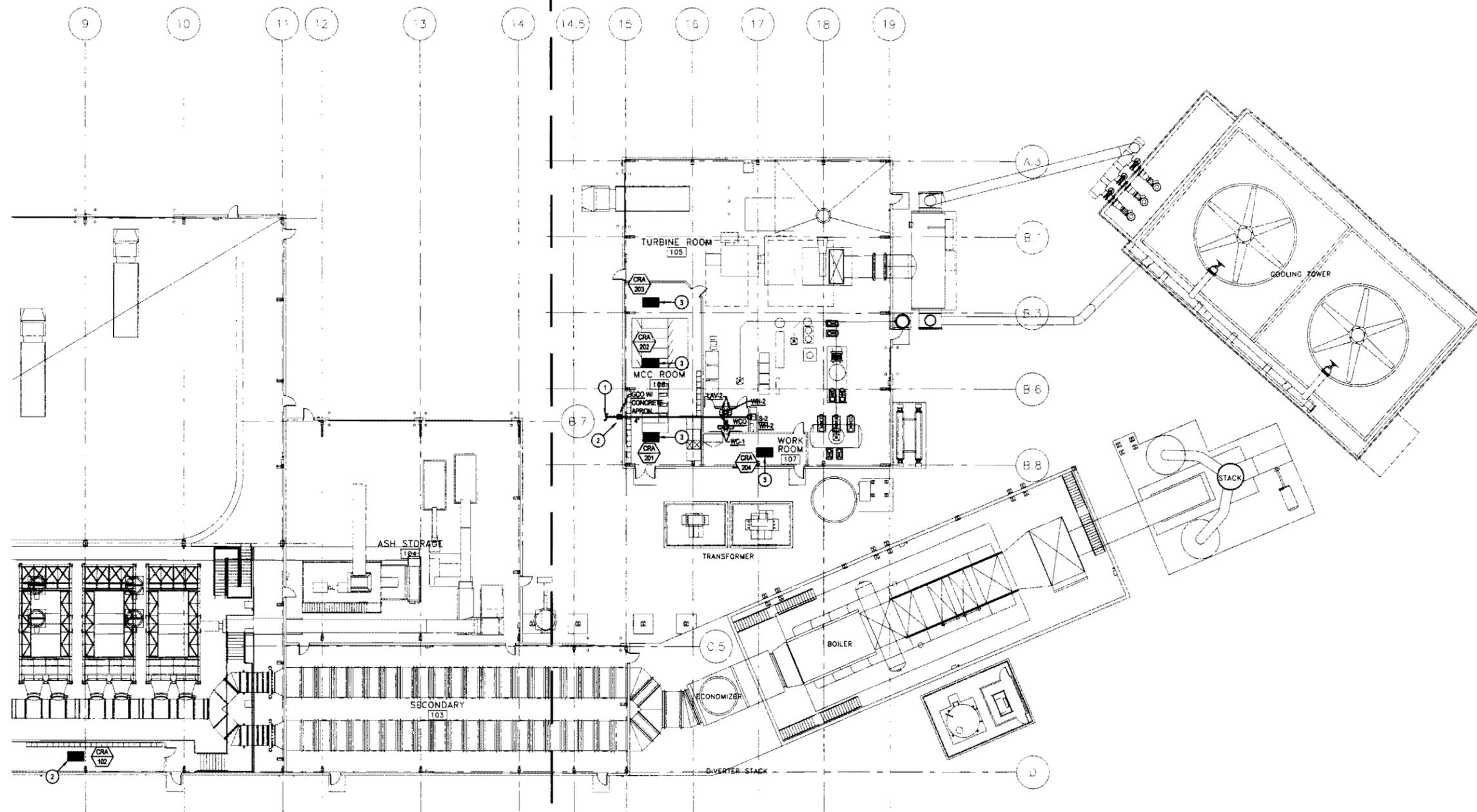
dynamic energy, llc
ada county waste to energy facility
10319 seaman's gulch road
ada county, idaho 83714

revision:
SUBMITTAL TO IDEQ
IDEQ DESIGN PLAN
APPLICATION REV 1
08.28.12

project: 100910
date: 05.17.12
drawn: aa/mp
checked: cep

construction documents

waste and vent plan - area 2
p1.2

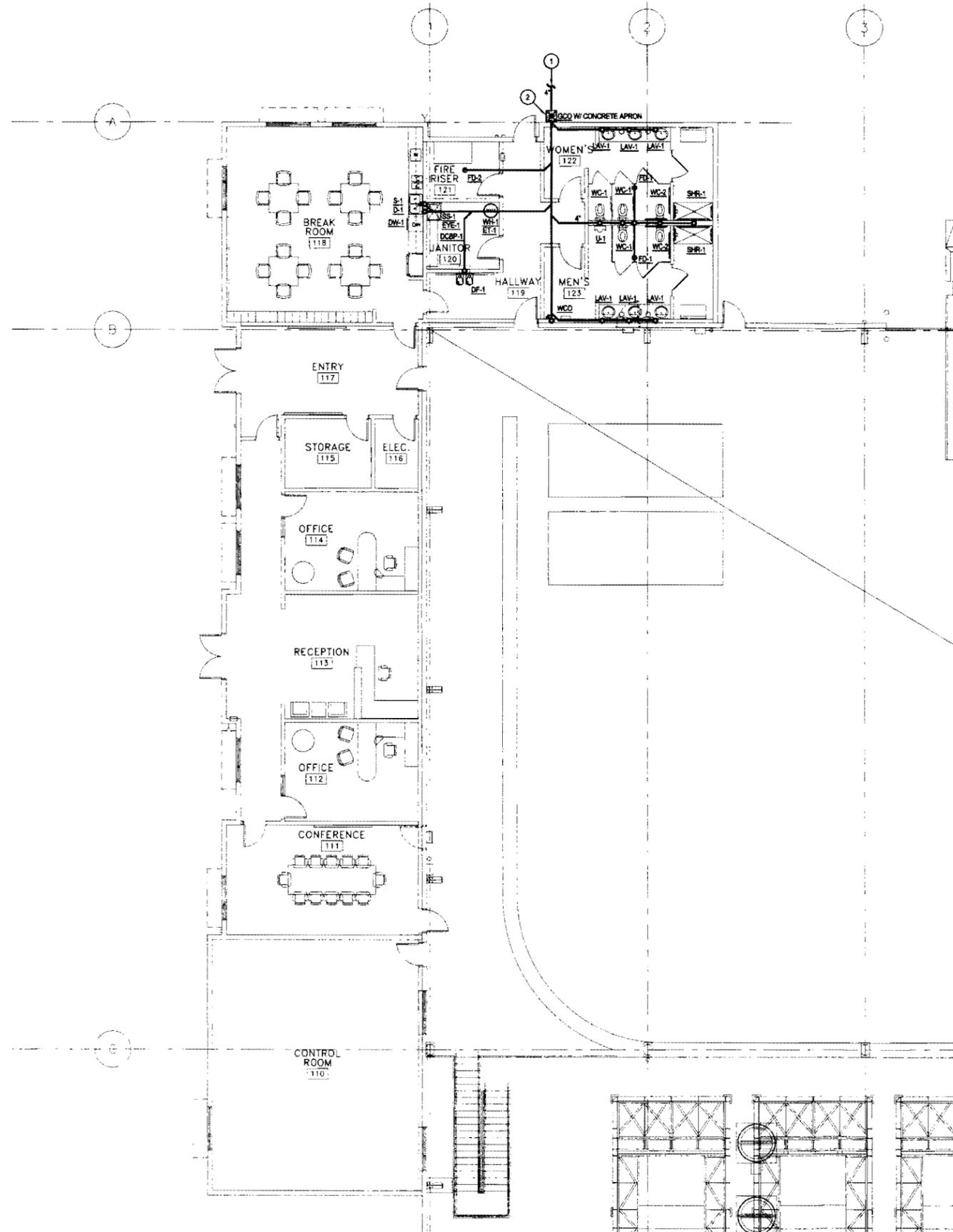


 **waste and vent plan - area 2**
SCALE: 1/16" = 1'-0"

KEYED NOTES:

- SYMBOL USED FOR NOTE CALLOUT.
- 1. 4" WASTE LINE OUT TO SEWER MAIN. SEE CIVIL SHEET 08 FOR CONTINUATION.
- 2. INVERT = 30' B.F.F.
- 3. ROUTE CONDENSATE TO TAILPIECE OF 3-2.

MUSGROVE ENGINEERING, P.A.
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208.354.0585
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project number: 10-299



KEYED NOTES:

- SYMBOL USED FOR NOTE CALLOUT
- 1. 4" WASTE LINE OUT TO SEWER MAIN. SEE CIVIL SHEET C8 FOR CONTINUATION.
- 2. INVERT = 30" B.F.F.



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revision:
 SUBMITTAL TO IDEQ
 IDEQ DESIGN PLAN
 APPLICATION REV1
 08.28.12

project: 100910
 date: 05.17.12
 drawn: aa/mp
 checked: cep

construction documents

enlarged waste and vent plan
p1.3

 **enlarged waste and vent plan**
 SCALE: 1/8" = 1'-0"

MUSGROVE ENGINEERING, P.A.
 214 S. Whippoorwill Way
 Boise, Idaho 83709
 208.336.0985
 www.musgrove.com
 OVER 40 YEARS OF EXCELLENCE
 project number: 10-299



Professional Engineer
 Michael J. Purcell
 License No. 14890
 State of Idaho
 Certified ARCHITECTS, P.A.
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 (208) 342-1111 or 208 342-1112

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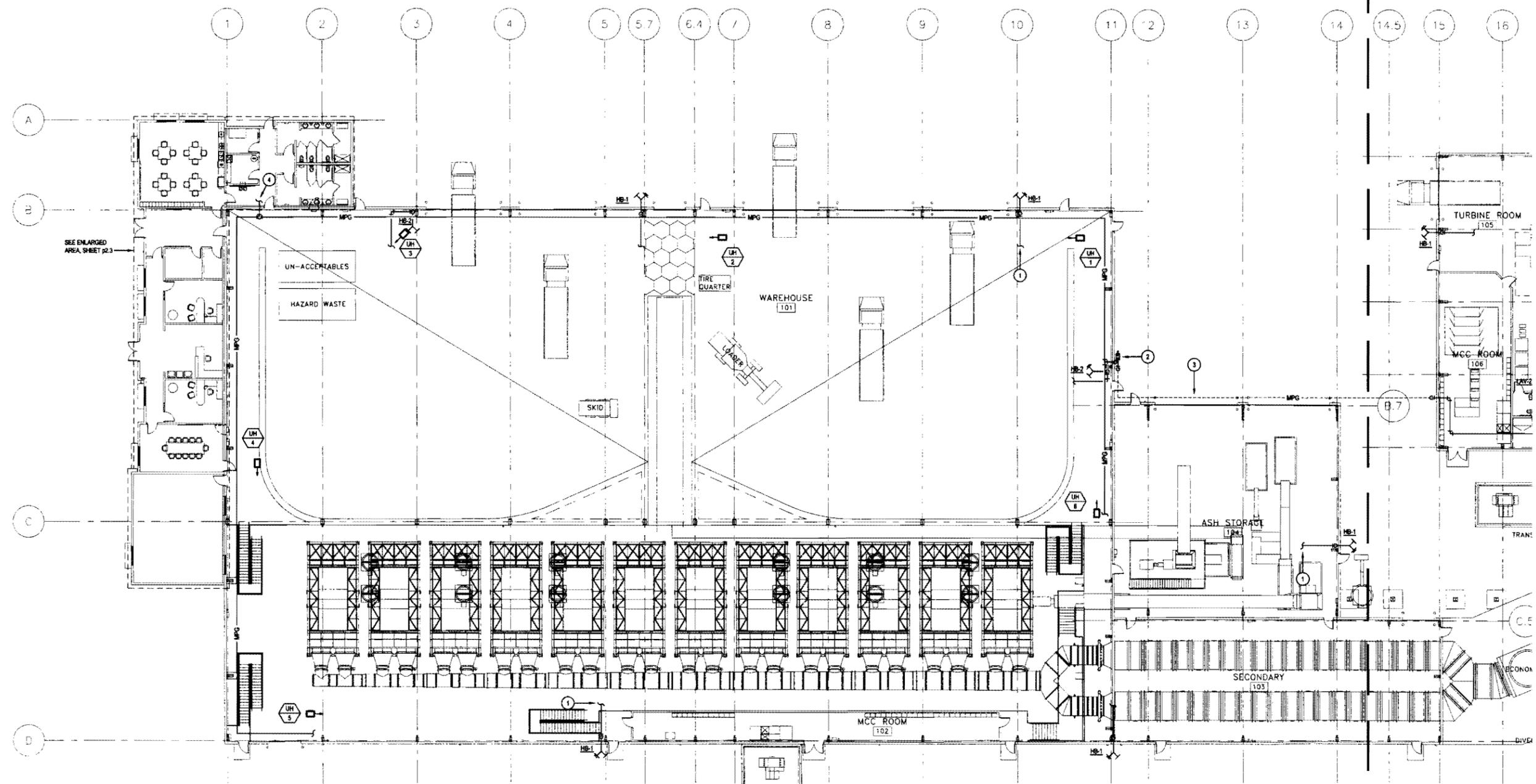
dynamic energy, llc
 ada county waste to energy facility
 10319 seaman's gulch road
 ada county, idaho 83714

revision:
 SUBMITTAL TO IDEO

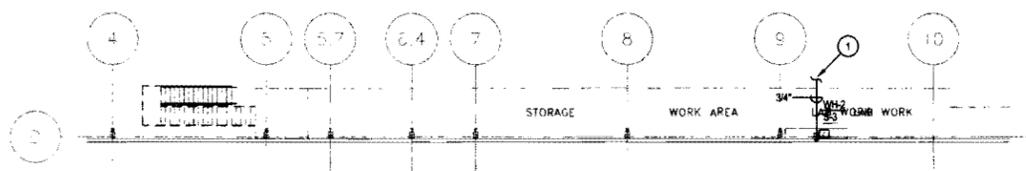
project: 100910
 date: 05.17.12
 drawn: oo/mp
 checked: cep

construction documents

water and gas plan - area 1
 p2.1



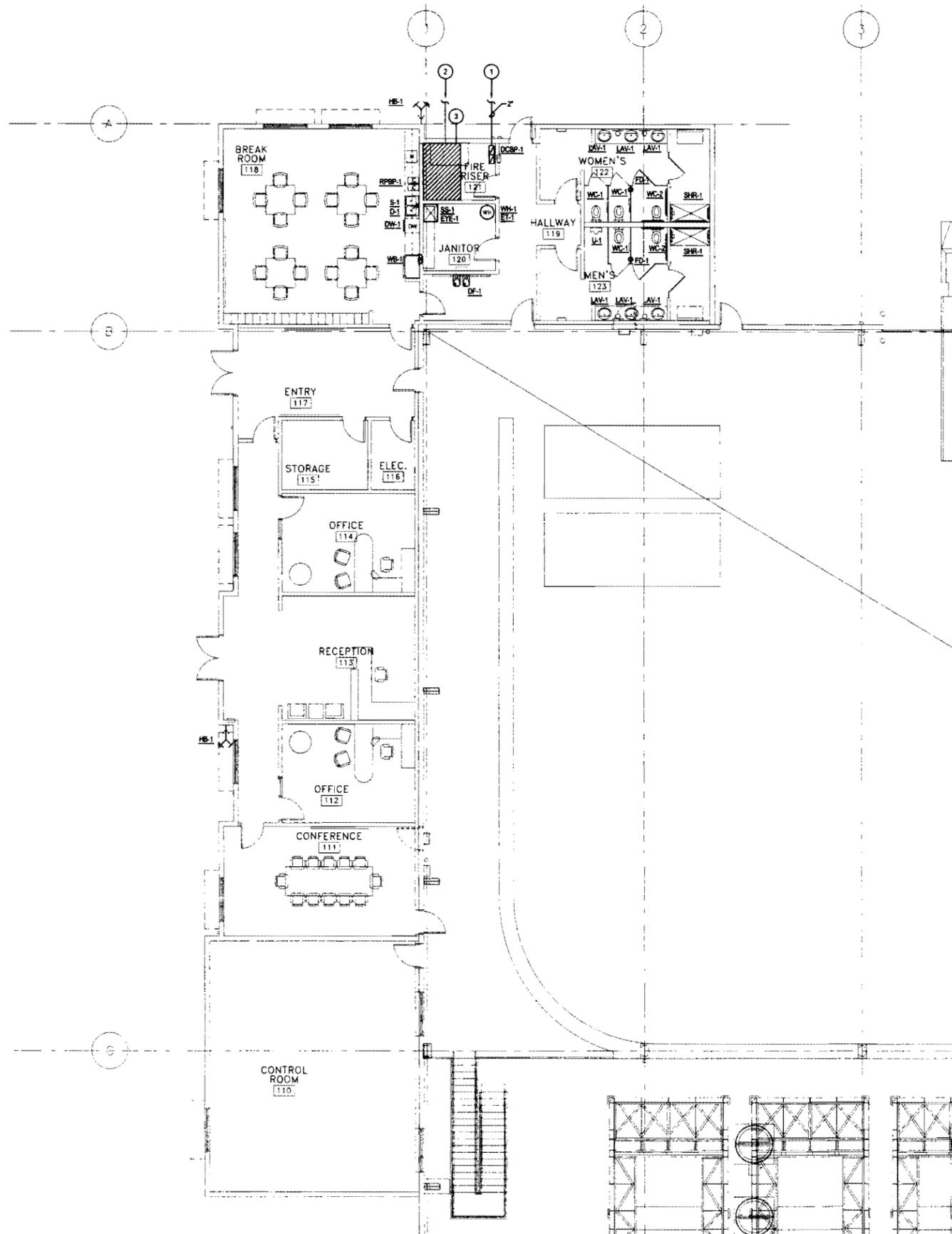
 **water and gas plan - area 1**
 SCALE: 1/16" = 1'-0"



KEYED NOTES:

- SYMBOL USED FOR NOTE CALLOUT
- 1. CONNECT TO NEAREST POTABLE WATER LOOP LOCATION. TYPICAL.
- 2. GAS METER LOCATION. BRANCH OFF SERVICE MAIN AND RUN 5 PSI LINE AS SHOWN.
- 3. ROUTE 5 PSI GAS LINE UNDERGROUND TO TURBINE BUILDING AS SHOWN. ROUTE UP OUTSIDE WALL AND INTO BUILDING.
- 4. ROUTE GAS LINE UP TO OFFICE ROOF AREA HEIGHT AND OUT.

MUSGROVE ENGINEERING, P.A.
 234 S. Whippoorwill Way
 Boise, Idaho 83709
 208-344-0565
 www.musgrovepa.com
 OVER 30 YEARS OF EXCELLENCE
 project number: 10-299



KEYED NOTES:

- SYMBOL USED FOR NOTE CALLOUT.
- 1. 2" CW LINE IN FROM WATER MAIN. SEE CIVIL SITE PLAN FOR CONTINUATION.
- 2. FIRE SPRINKLER LINE TO BE SIZED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR. FIRE SPRINKLER CONTRACTOR SHALL DESIGN THE FIRE SPRINKLER SYSTEM ACCORDING TO A STATIC PRESSURE OF 77 PSI AND A FLOW OF 777 GPM AT 77 PSI RESIDUAL PRESSURE. (FIRE FLOW INFORMATION PROVIDED BY UNITED WATER (IAHO)) FIRE LINE CONNECTION TO MAIN WATER SERVICE SHALL MEET STATE AND LOCAL UTILITY REQUIREMENTS.
- 3. FIRE SPRINKLER RISER LOCATION. FIRE RISER SHALL PROVIDE A WET PIPE SPRINKLER SYSTEM THAT INCLUDES A TAMPER SWITCH, FLOW SWITCH, ALARM BELL, AND FIRE DEPARTMENT CONNECTION.



enlarged ARCHITECTS, P.A.
 225 main street, suite 202, boise, Idaho 83702
 (208) 333-9881 fax: (208) 333-9882 email: info@enlarged.com

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revision:
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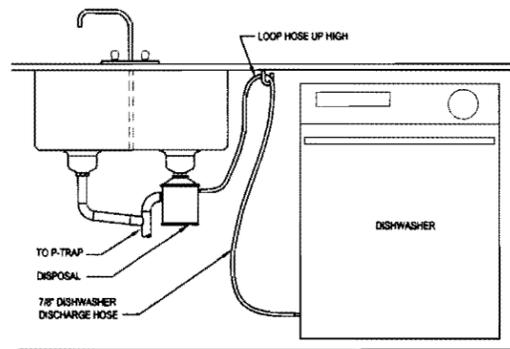
project: 100910
 date: 05.17.12
 drawn: aa/mp
 checked: cep

construction documents

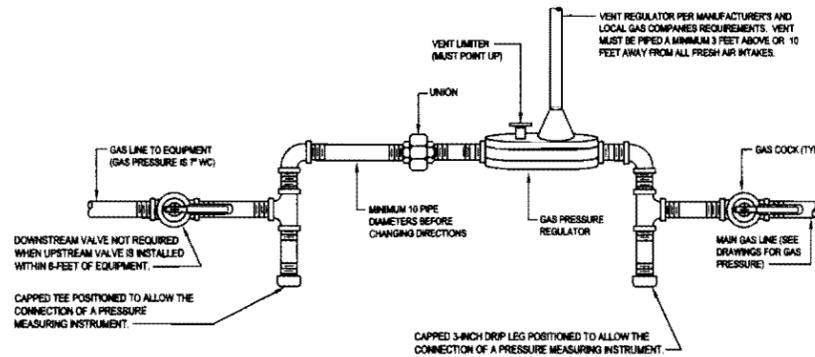
enlarged water and gas plan p2.3

enlarged water and gas plan
 SCALE: 1/8" = 1'-0"

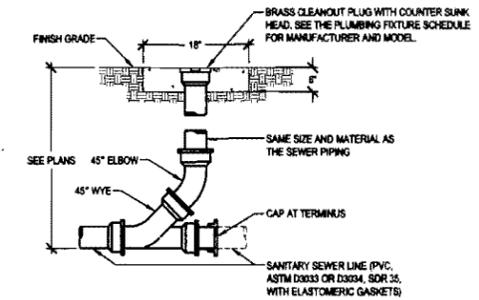
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 Boise, Idaho 83719
 208.334.0585
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 OVER 30 YEARS OF EXPERIENCE
 project number: 10-299



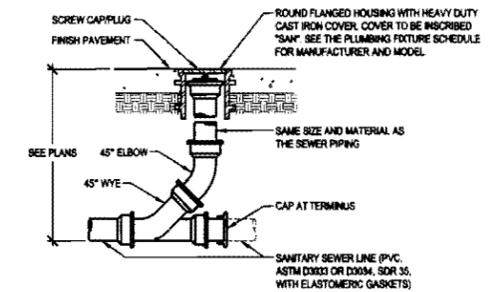
DISHWASHER CONNECTION DETAIL
NOT TO SCALE



GAS PRESSURE REGULATOR DETAIL
NOT TO SCALE



PEDESTRIAN TRAFFIC AREAS

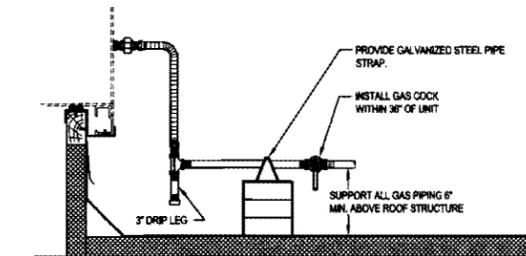


VEHICULAR TRAFFIC AREAS

GRADE CLEANOUT (GCO) DETAIL
NOT TO SCALE

EQUIPMENT CONNECTION NOTES

1. INSTALL FLEX CONNECTION AT ALL ROOF TOP UNITS WHICH HAVE SPRING ISOLATION CURBS. (36\"/>
2. INSTALL SOLID PIPE CONNECTION TO ALL ROOF TOP UNITS WHICH DO NOT HAVE SPRING ISOLATION CURBS.
3. PAINT PIPE WITH RUSTOLEUM 1000 PRO-GUARD PRIMER, RED OR GRAY, OR APPROVED EQUAL.



APPROVED PIPE SUPPORT SYSTEMS:

MIRO MODEL 1.5 WITH SPACERS,
MIRO INDUSTRIES 1-800-768-6976

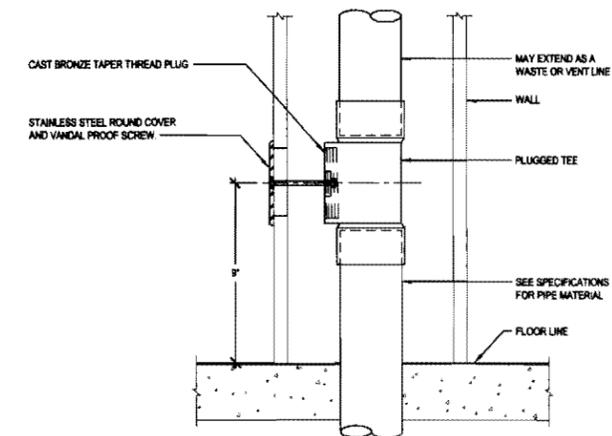
ADVANCED SUPPORT PRODUCTS
ASP, INC. 1-800-941-5737

VERSABLOCK BY FREEDOM INC.,
VERSABLOCK.COM 1-888-612-9825 OR
1-208-861-0229

PIPE SUPPORTS SHALL BE AS FOLLOWS:

SIZE OF PIPE	SUPPORT REQUIRED
12\"/>	6\"/>
3/4\"/>	6\"/>
1 1/4\"/>	10\"/>
OR LARGER	

ROOFTOP UNIT - GAS PIPING DETAIL
NOT TO SCALE



WALL CLEANOUT (WCO) DETAIL
NOT TO SCALE



erickson ARCHITECTS, PA
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ada county, idaho 83714

revision:
SUBMITTAL TO IDCO

project: 100910
date: 05.17.12
drawn: aa/mp
checked: cep

construction documents

plumbing details

p3.1



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224 S. Whisperwood Way,
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208.354.0365
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project number: 10-299

1 WASTE AND VENT RISER
NTS

2 WATER RISER
NTS

PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE ADDITIONAL COMMENTS	CONNECTION SIZE					MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
		WASTE	VENT	TRAP	CW	HW	
D-1	DISPOSER	2	1 1/2	1 1/2	-	-	INSINK ERATOR MODEL BADGER 1-1/2 HORSEPOWER, 120 VOLTS, 8.7 AMPS, CONTROLLED BY WALL SWITCH. PROVIDE WITH PRE-WIRED POWER CORD.
DCBP-1	DOUBLE CHECK BACKFLOW PREVENTER	-	-	-	SEE PLANS	-	WATTS SERIES LF 007 DOUBLE CHECK VALVE ASSEMBLY, MODEL NO. LF 007HQ17-REPLACEABLE SEATS AND SEAT DISCS, CAST BRONZE BODY CONSTRUCTION- 1/2" THRU 2", 2-1/2" & 3" 708 SERIES. PROVIDE WITH STRAINER, LEAD FREE.
DF-1	DRINKING FOUNTAIN (INTERIOR DUAL BUBBLERS) (ELECTRIC WATER COOLER) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	-	ELKAY MODEL EZ25LUC WITH FLEX-GUARD ANTI-MICROBIAL SAFETY BUBBLER, OPERATED BY FRONT OR SIDE PUSH BARS, CLEANABLE Y STRAINER, 115 VOLT, 4.0 AMP, 60 HERTZ.
DW-1	DISHWASHER	-	-	-	-	1/2	PROVIDED BY OTHERS. SEE DETAIL SHEET P3.1.
ET-1	EXPANSION TANK	-	-	-	3/4	-	AMTROL THERM-X-TROL ST-12, OR APPROVED EQUAL, NON ASME SERIES THERMAL EXPANSION ABSORBER.
EYE-1	EMERGENCY EYE WASH (WALL MOUNTED)	-	-	-	1/2	-	ACORN SAFETY MODEL 50408-CH12-8FP, WALL MOUNTED WITH DUAL 45° ANGLED HEADS AND RECOIL HOSE, PROVIDE WITH FLIP TOP DUST COVERS, UNIVERSAL EMERGENCY SIGN, VACUUM BREAKER, AND STAINLESS STEEL 90° WITH SHEET NIPPLE.
FCO	FLOOR CLEANOUT	SEE PLANS	-	-	-	-	JAY R. SMITH 4023 SERIES WITH ADJUSTABLE TOP AND ABS PLUG. PROVIDE WITH SMITH & GARD FIGURE NUMBER 8912 FOR HEIGHT ADJUSTMENT AFTER CONCRETE POUR.
FD-1	FLOOR DRAIN (CONCRETE FLOOR)	2	1 1/2	2	-	-	JAY R. SMITH FIGURE NUMBER 20051-A08NB: NO-HUB OUTLET, 5" ROUND, NICKEL BRONZE FINISH, WITH ADJUSTABLE STRAINER AND TRAP PRIMER. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FD-2	FLOOR DRAIN (CONCRETE FLOOR)	4	2	4	-	-	JAY R. SMITH FIGURE NUMBER 20051-A08NB: NO-HUB OUTLET, 8" ROUND, NICKEL BRONZE FINISH, WITH ADJUSTABLE STRAINER AND TRAP PRIMER. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
GCO	GRADE CLEANOUT (NON-PAVED AREAS)	SEE PLANS	-	-	-	-	JAY R. SMITH 4220 SERIES WITH ABS PLUG.
GCO	GRADE CLEANOUT (PAVED AREAS)	SEE PLANS	-	-	-	-	JAY R. SMITH 4250 SERIES, ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER. FURNISH WITH ABS PLUG, COVER TO BE INSCRIBED "SAP".
HB-1	HOSE BIBB (EXTERIOR) (NON-FREEZE)	-	-	-	3/4	-	WOODFORD MODEL 85 - EXPOSED STYLE WITH ANTI-SIPHON VACUUM BREAKER, 3/4" INLET, AND CHROME PLATED. PROVIDE WITH TEE KEY AND INSTALL AT 18" ABOVE FINISH GRADE.
HB-2	HOSE BIBB (INTERIOR)	-	-	-	3/4	-	WOODFORD MODEL 24 - EXPOSED STYLE WITH ANTI-SIPHON VACUUM BREAKER, 3/4" INLET, AND CHROME PLATED. PROVIDE WITH METAL WHEEL HANDLE AND WOODFORD MODEL 37HD1 BACKFLOW PREVENTER.
LAV-1	MOTION SENSOR LAVATORY (COUNTERTOP / CABINET MOUNTED) (BATTERY OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER PENNINGTON MODEL K-2108-4 VITREOUS CHINA, COUNTERTOP MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER, SLOAN OPTIMA MODEL EBF-850-BDM BATTERY POWERED FAUCET AND MIXING VALVE MIX-60-A. PROVIDE WITH PIPING INSULATION, TRUEBRO LAV GUARD, PLUMBEREX HAND-SHIELD, OR EQUAL.
LAV-2	MOTION SENSOR LAVATORY (WALL MOUNTED) (BATTERY OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER KINGSTON MODEL K-2005, WITH K-7715 GRID STRAINER, SLOAN OPTIMA MODEL EBF-850-BDM BATTERY POWERED FAUCET, AND MIXING VALVE MIX-60-A. PROVIDE WITH LS-1 LAV SHIELD, AND JAY R. SMITH FIGURE NUMBER 0700 SUPPORT WITH CONCEALED ARMS.
LS-1	LAVATORY SHIELD (WALL MOUNTED SHIELD FOR CONCEALING PIPING, TOTALS, AND INSTANTANEOUS WATER HEATERS)	-	-	-	-	-	TRUEBRO "LAV SHIELD" ADA COMPLIANT, TOTAL ENCLOSURE, SINGLE-PIECE CONSTRUCTION, SLOAN OPTISHIELD ETF-520, OR APPROVED EQUAL.
PPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	-	-	-	WATTS, SERIES 009 REDUCED PRESSURE ZONE ASSEMBLY, MODEL NO. 009 - QT WITH QUARTER TURN BALL VALVES, BRONZE STRAINER, AND AIR GAP, BRONZE BODY CONSTRUCTION- 1/2" THRU 2", PROVIDE WITH STRAINER, LEAD FREE 2 1/2" & 3" 909 SERIES.
S-1	SINK - DOUBLE COMPARTMENT (13" X 18" X 8 1/2" - EACH) (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD-3322: 8 1/2" DEEP STAINLESS STEEL SINK, ELKAY HI-ARC MODEL LKE-4123 SINGLE LEVER FAUCET, SWING SPOUT, AND HOSE SPRAY. PROVIDE WITH ELKAY MODEL UK-35 CHROME PLATED TAILPIECE AND STAINLESS STEEL BASKET.
S-2	SINK - SINGLE COMPARTMENT (17" X 22" X 8 1/2") (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD-1722: 8 1/2" DEEP STAINLESS STEEL SINK, ELKAY HI-ARC MODEL LKE-4123 SINGLE LEVER FAUCET, SWING SPOUT, AND HOSE SPRAY. PROVIDE WITH ELKAY MODEL UK-35 CHROME PLATED TAILPIECE AND STAINLESS STEEL BASKET.
S-3	SINK - SINGLE COMPARTMENT (18" X 14" X 7 1/2") (WITH DRAINBOARD)	2	1 1/2	1 1/2	1/2	1/2	JUST MODEL SJ-1433-A-GR-L: 7 1/2" DEEP STAINLESS STEEL SINK, ELKAY HI-ARC MODEL LKE-4123 SINGLE LEVER FAUCET, SWING SPOUT, AND HOSE SPRAY. PROVIDE WITH JUST MODEL J-35 CHROME PLATED TAILPIECE AND STAINLESS STEEL BASKET.
SA-1	SHOCK ABSORBER (WATER HAMMER ARRESTOR)	-	-	-	-	-	JAY R. SMITH FIGURE NUMBER 5005 TO 5050, OR APPROVED EQUAL, SIZED PER FIXTURES SERVED, PROVIDE ACCESS PANEL.
SHR-1	SHOWER PACKAGE (ADA COMPLIANT) (5'3" X 3'7" X 7'5")	2	1 1/2	2	1/2	1/2	BEST BATH SYSTEMS MODEL LS88337A750 WITH A 3/4" THRESHOLD, ONE PIECE SMOOTH WALL FINISH WITH 3/4" PLYWOOD BEHIND THE WALL SYSTEM AT CRITICAL LOCATIONS FOR STRENGTH, AND CUSTOMIZED INSTALLATION OF ACCESSORIES. ADA MINIMUM INSIDE DIMENSIONS OF 60" X 30" FOR ROLL IN SHOWERS, 3/4" THRESHOLD ELIMINATES THE NEED TO REDUCE FOR ADA COMPLIANCE IF A 3/4" MINIMUM FLOORING IS USED. INCLUDE: (1) 32" X 30" S.S. GRAB BAR, (1) 34" X 21" HOPE SWING DOWN ADA COMPLIANT SEAT, (1) SURFACE MOUNT SOAP DISH AT 48" TALL, (1) SLOAN CHIEF CAULKLESS BRASS DRAIN #827-38 WITH CHROME SCREEN, MOEN 8346 HANDHELD SHOWER SYSTEM, POSH-TEMP WITHOUT VOLUME CONTROL, ADJUSTABLE TEMPERATURE LIMIT STOP, 3/4" TURN STOPS, 4 PORT CYCLING VALVE, HANDHELD SHOWER, 89" DOUBLE SWIVEL HOSE ASSEMBLY, 30" SLIDE BAR, VACUUM BREAKER, DROP FILL, AND 5 FT. WATER STOPPER. PROVIDE TAPE-WEIGHTED SHOWER CURTAIN.
SS-1	SERVICE SINK (24" X 24" X 10") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ACORN TERRAZZO-WARE MODEL TRH-242410: PROVIDE AND INSTALL WITH STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, CHROME FAUCET, 3/8" HOSE AND WALL HANGER, MOP HANGER, AND 2 SIDE STAINLESS STEEL WALL GUARD.
TD-1	TRENCH DRAIN (10" WIDE) (HEAVY TRAFFIC RATED)	2	1 1/2	2	-	-	JAY R. SMITH FIGURE NUMBER 8612 10" WIDE TRENCH DRAIN SYSTEM, SLOPE DRAIN SYSTEM WITH INTEGRAL METAL RAIL, PROVIDE WITH END CAPS, OUTLETS, CATCH BASIN (8612G-860-CB24-8P), AND HEAVY DUTY (CLASS C) GALVANIZED STEEL BAR GRATE (MODEL 8612-G). REFER TO ARCHITECTURAL PLAN FOR EXACT LENGTH REQUIREMENTS.
U-1	URINAL (MOTION SENSOR / BATTERY OPERATED) (ADA COMPLIANT)	2	1 1/2	INT.	3/4	-	KOHLER BARDON MODEL K-4980-ET WALL MOUNTED URINAL WITH 3/4" TOP SPUD, SLOAN REGAL XL 186-0 SSNO SIDE MOUNT OPERATOR AND REGAL XL FLUSHOMETER. INCLUDE BREHIVE STRAINER AND JAY R. SMITH FIGURE NUMBER 0637 ADJUSTABLE FIXTURE SUPPORT.
WB-1	WALL BOX (WATER SUPPLY TO ICE MAKER)	-	-	-	1/2	-	QATEY FIREMASTER MODEL 38480 WITH FACEPLATE, ADJUSTABLE METAL SUPPORT BRACKET, AND WATER HAMMER ARRESTOR, FIRE-RATED, OR APPROVED EQUAL.
WC-1	WATER CLOSET (MOTION SENSOR / BATTERY OPERATED) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA COMPLIANT)	3	2	INT.	1	-	KOHLER HIGHCREST MODEL K-4302 / FLOOR MOUNTED, WITH ELONGATED BOWL, KOHLER LUSTRA MODEL K-4880-C / ELONGATED OPEN FRONT SEAT WITH HINGE, SLOAN REGAL XL 111-SMO FLUSHOMETER.
WCO	WALL CLEANOUT	SEE PLANS	-	-	-	-	JAY R. SMITH 44721 SERIES WITH CAST BRONZE TAPER THREAD PLUG, STAINLESS STEEL ROUND COVER, AND A STAINLESS STEEL VANDAL PROOF SCREW.
WH-1	WATER HEATER (NOMINAL 50 GALLON) (NATURAL GAS - HIGH EFFICIENCY)	-	-	-	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL PDX-505-896-3N: 80 MBH INPUT/56 MBH OUTPUT, 110 V.A.C., 3.1 AMPS, 22" DIAMETER, 66" TALL WITH TOP CONNECTIONS. PROVIDE WITH PVC INTAKE/VENT KIT AND SEISMIC STRAP.
WH-2	WATER HEATER (POINT OF USE) (ELECTRIC)	-	-	-	SEE PLANS	SEE PLANS	EEMAX FLOW CONTROLLED MODEL SP-80, 27711, 28 AMPS, 8.0 KW, AND SHALL PROVIDE 55°F TEMPERATURE RISE AT 1.0 GPM. PROVIDE WITH LS-1 LAV SHIELD. TO VERIFY WATER HARDNESS CALL CAMILLE CEGNAR AT UNITED WATER (262-7371) OR EMAIL AT camille.cegnar@unitedwater.com

- NOTES:
- ALL ADA COMPLIANT FIXTURES MUST COMPLY WITH ICC/ANSI A117.1. SEE ARCHITECTURAL PLANS FOR HANDICAPPED FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS.
 - ALL EXPOSED HW PIPING AND DRAIN LINES BENEATH ALL LAVATORIES AND ALL ADA COMPLIANT SINKS MUST BE INSULATED TO PREVENT BURNS. REFER TO ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL VINYL INSULATION - TRUEBRO, PLUMBEREX, OR EQUAL.
 - PROVIDE P-TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS (PPP INC. OR EQUAL). USE ZURN P-6000-TPO (OR EQUAL) IF FLUSH VALVES ARE PRESENT. PROVIDE A BALL TYPE SHUT-OFF VALVE UPSTREAM OF PRIMER VALVE.
 - SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.
 - HIGH EFFICIENCY WATER HEATERS: PROVIDE WITH CONDENSATE NEUTRALIZATION KIT BY JIM BOILER WORKS MODEL JM (OR EQUAL), SIZED PER EQUIPMENT CAPACITY.
 - BACKFLOW PREVENTION: THIS BUILDING IS PROVIDED WITH A BACKFLOW PREVENTION DEVICE ON THE MAIN WATER SERVICE AND REDUCED PRESSURE BACKFLOW PREVENTION ON THE FOLLOWING PIECES OF EQUIPMENT: COFFEE MAKER.



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revision:
SUBMITTAL TO IDEC

project: 100910
date: 05.17.12
drawn: aa/mp
checked: cap

construction documents

plumbing schedules

p4.1

