



APPENDIX OO

Process Fugitive Control Plan



PROCESS FUGITIVE CONTROL PLAN

Prepared for:

**EXIDE TECHNOLOGIES
Vernon, California**

Prepared by:

**ADVANCED GEOSERVICES
West Chester, Pennsylvania**

**Project No. 2013-2993-01
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TABLE OF CONTENTS

	<u>PAGE NO.</u>
1.0 General.....	1-1
2.0 Tracking Control.....	2-1
2.1 Traffic Control.....	2-1
2.2 Dedicated Equipment.....	2-1
2.3 Doorways.....	2-3
3.0 Air Management.....	3-1
3.1 General Requirements.....	3-1
3.2 Facility Air Handling Systems.....	3-1
3.3 Potential For Fugitive Outside of Structures.....	3-2
4.0 Housekeeping.....	4-1
4.1 General.....	4-1
4.2 Daily Housekeeping.....	4-1
4.2.1 Rmps and Desulfurization.....	4-1
4.2.2 Baghouse Building.....	4-1
4.2.3 Smelter Building and Finished Lead Building.....	4-2
4.2.4 Containment Buildings.....	4-2
4.2 Monthly Housekeeping.....	4-3
4.3 Annual Housekeeping.....	4-3
5.0 Inspections.....	5-1
5.1 General.....	5-1
5.2 Daily Inspections.....	5-1
6.0 Training.....	6-1
7.0 Containment Building Repairs.....	7-1

LIST OF FIGURES

FIGURE

- 1 Building Locations
- 2 Traffic Patterns Within Buildings



LIST OF ATTACHMENTS

ATTACHMENT

- A Air Management Diagrams and Tabulation
- B Housekeeping Forms
- C Inspection Forms
- D Proposed Containment Building Wall Repairs



1.0 GENERAL

This Process Fugitive Control Plan (PFCP) has been prepared to address comments from the Department of Toxic Substances Control (DTSC), contained in the RCRA Permit Application comment letter (June 17, 2014) and verbal comments made by DTSC during a July 1 and 2, 2014 meeting, regarding general housekeeping in the main processing areas in the North Yard. Specifically, DTSC has requested that Exide address the accumulation of dust and dirt on horizontal surface (floors, top of walls, structural steel, equipment, etc.) in the RMPS, Desulfurization, Smelter, Baghouse and Finished Lead Buildings (all areas except the Containment Buildings) and tracking of waste materials from the Reverb Feed and Blast Feed Containment Buildings.

The dust and dirt accumulating on horizontal surfaces are particulate material coming from the various processes (“process fugitives”) as a result of normal operation. The bulk of process fugitives are captured by the various hoods and air recovery systems that feed to the air emission control devices. These controls are required as part of the facility Title V Permit (air permit) and maintain all of the North Yard manufacturing areas under negative pressure.

The plan will be implemented within the RMPS, Desulfurization, Containment, Baghouse, Smelter and Finished Lead Buildings to control process fugitives. The RMPS Building consists of four areas: 1) the unloading dock; 2) the narrow section along the west side of the Reverb Furnace Feed Room; 3) the main RMPS area; and 4) the enclosed plastic trailer loading dock. The narrow section of the RMPS Building includes a lower level which includes Unit 5, Battery Dump Bin Sump, and Unit 70, Oscillating Pan Feeder. The Containment Buildings include the Reverb Furnace Feed Room (Unit 33) which consists of the Upper and Lower Feed Rooms and Corridor, and the Blast Furnace Feed Room (Unit 34).

Building locations are provided on Figure 1.



The Process Fugitive Control Plan was revised in response to DTSC's January 28, 2015 Summary of Violations. The SOV required that the plan be revised to discuss repairs to the walls and roof of the Containment Building (Reverb Furnace Feed Room and Blast Furnace Feed Room).



2.0 TRACKING CONTROL

2.1 TRAFFIC CONTROL

Movement of equipment from the Containment Buildings to the RMPS, Desulfurization, Smelter, Baghouse or Finished Lead Buildings without proper decontamination of vehicles can result in the inadvertent tracking of waste materials throughout the structures. To minimize the potential for tracking of waste materials, Exide is implementing a structured program involving the use of dedicated equipment in specific areas of the site and decontamination procedures for equipment moving from dirtier areas to cleaner areas.

2.2 DEDICATED EQUIPMENT

Operational equipment is dedicated to each building as follows:

Building	Location	Equipment	Purpose
Containment Building	Upper and Lower Reverb Feed Rooms, Corridor	1 front end loader	Load feed from staging piles to the live bottom hopper at the enclosed feed conveyor to the Rotary Kiln
Containment Building	Blast Feed Room	1 front end loader	Load feed from piles to the skip hoist for Blast Furnace
Smelter Building	Blast and Reverb Furnaces	1 fork lift	Move slag trays from Slag Launder at Blast and Reverb Furnaces, then to cooling area at west wall of Smelter Building. Once cool, move slag trays to dedicated area immediately inside Blast Feed Room for further handling and movement by dedicated Containment Building fork lift.



Building	Location	Equipment	Purpose
Smelter Building	Receiving and Refining Kettles	1 forklift	Move refining equipment to the kettles and finished product to the entrance of the Finished Lead Building.
Containment Building	Blast Feed Room, Corridor and Lower Feed Room	1 fork lift	Transport slag trays (delivered from Smelter Building forklift to entrance of Blast Feed Room) and drum or bin from RMPS forklift to appropriate location in Blast Feed Room, Corridor and Lower Feed Room
Containment Building	Corridor	1 forklift	Spare forklift
Finished Lead Building	Shipping	2 forklifts	Load pallets of product for shipment and move finished product from entrance to Smelter Building
RMPS Building	Plastic Loading	1 forklift	Pick up plastic and paste from RMPS floor and place in drum or bin. Move drum or bin to Reverb Feed Room entrance for subsequent handling by Blast Feed Room, Corridor and Lower Feed Room fork lift

Filter cake from the WWTP Filter Press (Unit 44) is typically conveyed from the WWTP Filter Press to the Reverb Furnace Feed Room (Unit 33). In the event the conveyor is down, filter cake is placed in two metal totes and transported to the entrance of the Reverb Furnace Feed Room using a forklift. The Containment Building fork lift then moves the bin to the appropriate location in the Lower Feed Room or Corridor for emptying. The transfer totes are located in the RMPS Building. Totes are emptied daily and covered when not being filled or emptied.

Traffic patterns within the buildings are provided on Figure 2.



If a piece of equipment breaks, maintenance personnel are summoned, and repairs are made in place. Operational procedures include instructions to keep mobile equipment dedicated to a specific work area in order to minimize wheel traffic throughout the facility, and to service equipment in place whenever possible.

2.3 DOORWAYS

The buildings have several interior and exterior doorways for equipment and personnel. Doorways are shown on Figure 1. Exterior and interior doorways will be maintained in operational condition, and will be kept closed when not in use. At some doorways, a transparent industrial curtain provides a barrier that allows the ventilation system to maintain a negative pressure within the building. Inspection of doorways to identify the need for maintenance will be conducted as discussed in Section 5.

The vehicle doorways between the Corridor and Baghouse Building; Blast Feed Room and Smelter Building; and Smelter Building and Finished Lead Building will be equipped with a material transfer and contamination reduction area (transfer area). The Transfer Area will be used to transfer containers (trays of slag, filter cake bins) and finished lead between designated pieces of equipment in each area and to clean the wheels and exterior surfaces of equipment moving from the dirtier to the cleaner area. Under normal operations, the forklift carrying the containers or finished lead from one area will place the container on the ground in the transfer area and then the designated forklift in the area where the container is being delivered will pick up the container for further handling. The transfer area must be emptied at the end of every shift (i.e. containers may not be stored in the transfer area) and the transfer area shall be vacuumed to remove any material, dust or dirt that may have accumulated.

Equipment may travel beyond the transfer area (i.e. from the Baghouse Building into the Corridor; from the Smelter Building into the Blast Feed Room and from the Finished Lead Building into the Smelter Building), but before being allowed to return to their original area the piece of equipment must be decontaminated. At the entrance between the Baghouse Building and Corridor the piece of equipment shall be pressure washed at the Truck Wash Sump. When



moving from the Blast Feed Room to the Smelter Building or from the Smelter Building to the Finished Lead Building, the wheels shall be dry vacuumed to remove material, dust and dirt. If the piece of equipment cannot be adequately cleaned with just dry vacuum, it shall be pressure washed at the Truck Wash Sump and then the wheels vacuumed at the transfer area.

Any vehicles or equipment exiting the Containment Building through the south door must be cleaned and inspected by the Containment Building shift supervisor at the Truck Wash Sump before leaving. Any vehicles or equipment exiting Baghouse Building through the north door must be cleaned and inspected by the RMPS or Baghouse Building shift supervisor before leaving. The north and south doors shall only be opened long enough to allow passage of the cleaned and inspected vehicle/equipment. Requirements for cleaning and inspecting vehicles and equipment include any Contractor vehicles and equipment.



3.0 AIR MANAGEMENT

3.1 GENERAL REQUIREMENTS

Under requirements of SCAQMD Rule 1420.1 and the National Emission Standard for Hazardous Air Pollutants (NESHAP) From Secondary Lead Smelting (40 CFR 63 Subpart X), the RMPS Building, Reverb Furnace Feed Room (including Corridor), Blast Furnace Feed Room, Baghouse Building, Smelter Building, and Desulfurization Building must be maintained under negative pressure relative to the outdoor atmosphere. Operation of these structures under negative pressure ensures that airflow is inward through openings and doorways. Also per SCAQMD Rule 1420.1 and the NESHAP, the pressure differential between these building interiors and the outdoor atmosphere is continuously monitored and recorded to provide a measure of compliance with those requirements with records retained for documentation.

3.2 FACILITY AIR HANDLING SYSTEMS

The facility operates eight systems which maintain the required negative pressure. Direct process exhaust ventilation systems serve the Reverberatory Furnace (Unit 36), Blast Furnace (Unit 37), and Rotary Kiln (Unit 69). A baghouse ventilation system serves the soft lead refining kettles (Units 91 to 93, 99 to 102) and hoods at the permitted Reverb Furnace (Unit 36) including the slag tap. Another baghouse ventilation system serves the hard lead refining kettles (Units 89, 90 and 94 to 98) and hoods associated with the permitted Blast Furnace (Unit 37). A separate baghouse system serves the Blast Feed Room (Unit 34), and another baghouse system serves the Reverb Feed Room and Corridor (Unit 33). A scrubber system serves the RMPS Building. The Finished Lead Warehouse is not required to be maintained under negative pressure under local or federal rules; however, the building typically functions under negative pressure by virtue of the systems for the other buildings.

Two schematic diagrams of the facility's ventilation systems are provided in Attachment A. The diagrams indicate where each baghouse and ventilation system has extraction pickups in the various buildings. The first diagram (Figure 1) shows the configuration as of January 2014 and



the second diagram (Figure 2) shows the future configuration after completion of the upcoming modifications to implement further emission controls. Accompanying these diagrams is a tabulation of the various airflows and ventilation systems extracting air from each of the facility's enclosures.

The Reverb Feed Room and Blast Feed Room containment buildings have approximately, 90,000 cfm and 100,000 cfm, respectively, of extraction air drawn from them for subsequent filtration. The RMPS Building has approximately 5,000 cfm of extraction air drawn from it via a baghouse and an additional 27,000 cfm drawn from it by the MAPCO demister scrubber system. The hard lead baghouse and soft lead baghouse systems for the Smelter Building have approximately 100,000 cfm each of extraction air drawn through each for subsequent filtration. The Rotary Kiln Building has approximately 13,000 cfm drawn from it for subsequent filtration.

As noted in the tabulation in Attachment A, there is no directly dedicated extraction ventilation system applied to the Baghouse Building. Rather, the Baghouse Building is maintained under negative pressure by air drawn from that enclosure into the adjoining enclosures (i.e., RMPS Building, Reverb Furnace Feed Room, Blast Furnace Feed Room, and Smelter Building) which do have dedicated negative pressure extraction ventilation, primarily the ventilation systems serving the Smelting/Refining Building and the Reverb Feed Room and Blast Feed Room containment building enclosures. Air is drawn into the Reverb Furnace Feed Room and Blast Furnace Feed Room containment building enclosures from adjoining structures rather than the other way around.

3.3 POTENTIAL FOR FUGITIVE OUTSIDE OF STRUCTURES

The potential for fugitive emissions of dust to the atmosphere from these buildings is tightly restricted by these regulations, the systems installed to impose the negative pressure on the buildings, and the associated monitoring systems to assure ongoing compliance with the relevant health-protective ambient lead concentration standards imposed by Rule 1420.1 and the federal National Ambient Air Quality Standard (NAAQS) for lead.



4.0 HOUSEKEEPING

4.1 GENERAL

The process fugitives noted by DTSC to be accumulating on the top of walls, structural steel and floors inside of the structures operating under negative pressure generally represent particulates that are not fully captured by the air controls (because no system can be 100% effective) or are tracked from tracked from one of the containment buildings by equipment. The measures required by Section 2 are intended to reduce the amount of tracking between areas. To limit the amount of process fugitives accumulating inside the buildings, Exide shall implement the following housekeeping measures:

4.2 DAILY HOUSEKEEPING

4.2.1 RMPS and Desulfurization

As required by the July 2, 2009 Stipulated Order for Abatement with the South Coast Air Quality Management District, the interior and exterior areas and surfaces of RMPS are water washed, or swept/vacuumed, each shift that the hammer mill is operated. Washing events are not less than four hours apart. RMPS and Desulfurization Building housekeeping shall include once daily washing of the exterior of each tank and miscellaneous unit (excluding electrical components) to remove any residual material that may have spilled, splashed or overflowed from the unit. Resulting wash water shall be flushed, squeegeed, vacuumed or pushed into the floor drains leading to the RMPS Floor Sump (Unit 6), Battery Dump Bin Sump (Unit 5) or ancillary sumps. Daily housekeeping of the RMPS Building includes cleaning the plastic chip loading area and RMPS unloading dock.

4.2.2 Baghouse Building

Baghouse Building housekeeping shall include once per shift floor washing or vacuuming (including the Baghouse Building Tire Wash and transfer area at the entrance to the Corridor)



and daily washing of the lower 4 feet of building components (walls and columns), tanks, rotary kiln enclosure (excluding electrical components), and the area north and east of the blast furnace baghouse to remove any residual material that may have spilled, splashed or overflowed from the unit and/or dust and dirt accumulating on those surfaces. Resulting wash water shall be flushed, squeegeed, vacuumed or pushed into the sumps located within the Baghouse Building.

4.2.3 Smelter Building and Finished Lead Building

Smelter Building and Finished Lead Building housekeeping shall include once per shift washing or vacuuming of the floor area (including the transfer areas) to remove any residual material that may have spilled, splashed or overflowed from the units and/or dust and dirt accumulating on those surfaces. Resulting wash water shall be flushed, squeegeed, vacuumed or pushed into the ancillary sumps located within the Smelter Building. Floor cleaning will not be required closer than 2 feet to operating furnaces and refining equipment, or hot material (such as the slag pot cooling areas). Water shall not be used to clean the floor in the Smelter Building unless, in the opinion of the Environmental Manager and Area Supervisor it can be used safely around operating equipment hot materials.

4.2.4 Containment Buildings

The Containment Building are not subject to daily sweeping or floor cleaning beyond the material transfer areas, Truck Wash Sump area and the south vehicle door. Material transfer areas will be swept or cleaned once per shift. Daily operation of the Containment Buildings shall be performed in a manner that material stock piles are contained within designated areas/bins and do not extend into the designated aisles and vehicular travel routes. The aisles and travel routes shall be scraped cleaned once per shift using the front end loader bucket, hand tools and other equipment as appropriate for the amount of material present to remove material that may have been spilled, dragged or tracked out of their specified storage area. Containers stored in the Containment Building shall be neatly organized in rows within designated areas, in the vertical/upright position in a manner that allows required inspections. Containers identified as



being damaged to the extent that the integrity of the container is compromised shall be removed and processed during the shift it were identified.

Traffic patterns are shown on Figure 2. The form provided in Attachment B will be completed to document the daily housekeeping activities.

4.2 MONTHLY HOUSEKEEPING

Once per month, all horizontal surfaces in the Desulfurization, RMPS, Baghouse (including area south and west of Blast Furnace Baghouse not subject to daily housekeeping), Smelter and Finished Lead Buildings (except hot surfaces (>120 degrees F, and surfaces above hot surfaces and materials) to 8 feet above the floor will be vacuumed with an AQMD-permitted hand-operated HEPA vacuum. Special attention will be paid to vacuuming doorways, seams, connections and other hard to reach areas within the floors or horizontal surfaces. The form provided in Attachment B will be completed by the Area Supervisor to document the housekeeping activities.

4.3 ANNUAL HOUSEKEEPING

Once per year during a scheduled maintenance shut down, all horizontal surfaces up to and including the ceiling will be vacuumed with an AQMD-permitted hand-operated HEPA vacuum. It is anticipated that surfaces higher than 8 feet above the floor will be accessed using a man-lift or scaffolding. The form provided in Attachment B will be completed by the Area Supervisor to document the housekeeping activities.



5.0 INSPECTIONS

5.1 GENERAL

Inspections will be performed on a regular basis with completion of an inspection form to document the degree to which process fugitives have accumulated and to determine whether increased housekeeping measures are required.

5.2 DAILY INSPECTIONS

Once per shift, personnel will inspect the operations areas subject to the Process Fugitive Control Plan. Each permitted tank and miscellaneous unit will be inspected, as well as the general area around each unit, to identify housekeeping issues and liquids or solids that may have spilled, splashed or overtopped from their respective units. The inspector will visually inspect for overtopping, spillage, staining, sediment accumulations, plastic chips and other debris on the outside of the unit, the unit's foundation (if applicable) and on the floor in the immediate area. Each interior and exterior door will also be inspected to determine if they are maintained in closed position, whether sediment or liquid accumulations are present and to determine if maintenance is required.

The form provided in Attachment C will be completed, and each unit or area will be assigned a score based on its level of cleanliness with 3 being a perfect condition, 1 representing poor condition and 0 representing that the required housekeeping was not performed. If a score of 2 is assigned, then the basis for the score shall be raised with the personnel conducting the cleaning so the basis for the score can be corrected during the next round of housekeeping. If the area is given a score of 1 then immediate housekeeping is required to return the unit or area to a score of 2 or better. Visual benchmark (i.e., photographs) of a level 3 condition will be maintained in each operating area. The shift supervisor for each area will complete the attached form each day for their shift and submit the completed form to the Environmental Manager. The forms will total and average the score for the subject operating area/building. The Environmental Manager, or his designee, will enter the average score for each operating area into a spreadsheet or similar



program or tracking tool and provide an electronic copy of the results in graphical form to all Supervisors. If an operating area fails to obtain an average score of 2.0 or higher on any one day, the Production Manager shall be notified. If an operating area fails to score 2.0 or higher on 3 consecutive days the Plant Manger shall be notified and the basis for repeated substandard performance shall be reviewed and corrective action identified and implemented.



6.0 TRAINING

All personnel within the Desulfurization, RMPS, Containment, Baghouse, Smelter and Finished Lead buildings will receive initial training on the Process Fugitive Control Plan and the importance of maintaining housekeeping. Refresher training will be conducted annually, or more frequently for a particular building's personnel if inspections indicate that housekeeping requires improvement.



7.0 CONTAINMENT BUILDING REPAIRS

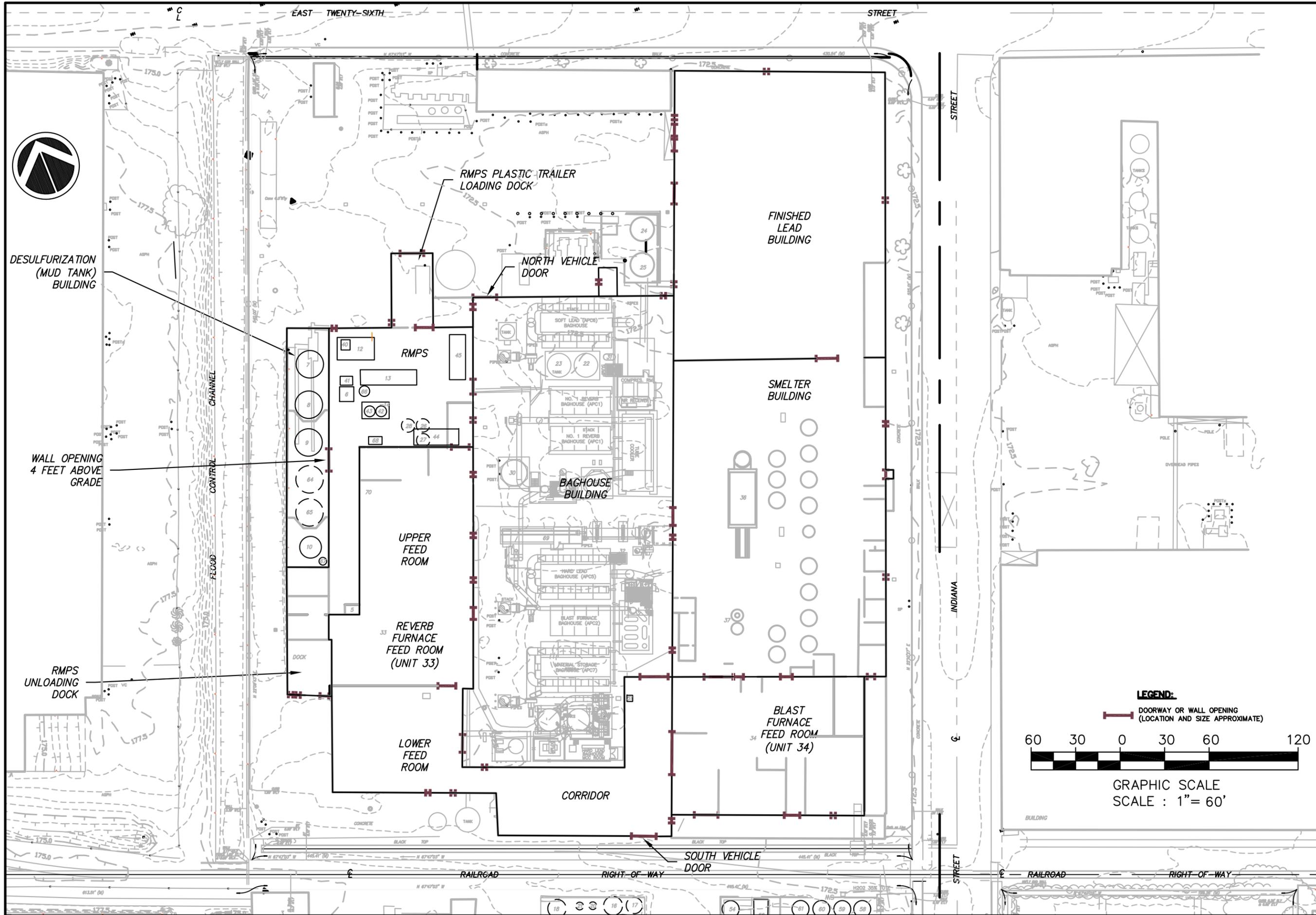
The Containment Building includes the Reverb Furnace Feed Room (Unit 33) and Blast Furnace Feed Room (Unit 34). The location is provided on Figure 1.

Exide began repairs to the Reverb Furnace Feed Room and Blast Furnace Feed Room roof on January 22, 2015. The repairs were conducted by applying Henry's Roof Repair caulk, adding additional screws, and applying Tropical Roofing Products #911 Eternalastic Elastomeric roof coating. Roof repairs were completed on February 23, 2015.

Proposed repairs to the north wall at the Upper Feed Room are provided in Attachment D. The proposed repairs were submitted to the City of Vernon on February 18, 2015. A list and sketch of additional wall repairs in the Reverb Feed Room are also provided in Attachment D. Design of the additional wall repairs, if needed, will be prepared and submitted to the City of Vernon and DTSC. Implementation of wall repairs will occur after City of Vernon, AQMD and DTSC approval of the proposed repairs.



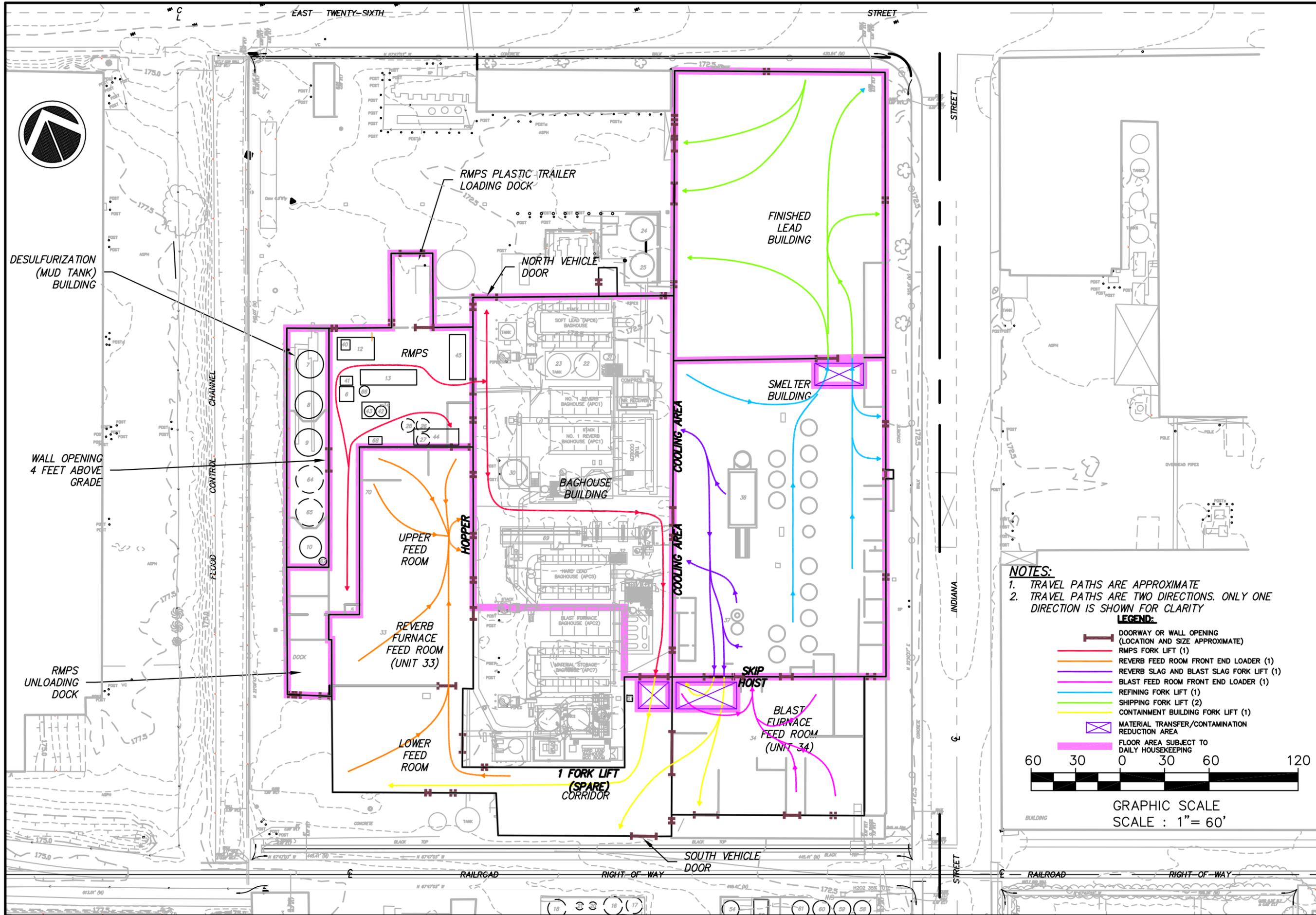
FIGURES



ADVANCED Geoservices <small>Engineering for the Environment. Planning for People. 1055 ANDREW DRIVE, SUITE A, WEST CHESTER, PA, 19380 tel 610.840.9100 fax 610.840.9199 www.advancedgeoservices.com</small>	BUILDING LOCATIONS	
	PROJECT MANAGER: PGS	SCALE: 1"=60'
	CHECKED BY: JWD	PROJECT NUMBER: 20132993-01
	DRAWN BY: DJS	DATE: 08/18/2014

EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

Figure
 1



TRAFFIC PATTERNS WITHIN BUILDINGS			
PROJECT MANAGER:	PGS	SCALE:	1"=60'
CHECKED BY:	JWD	PROJECT NUMBER:	20132993-01
DRAWN BY:	DJS	DATE:	08/04/2014

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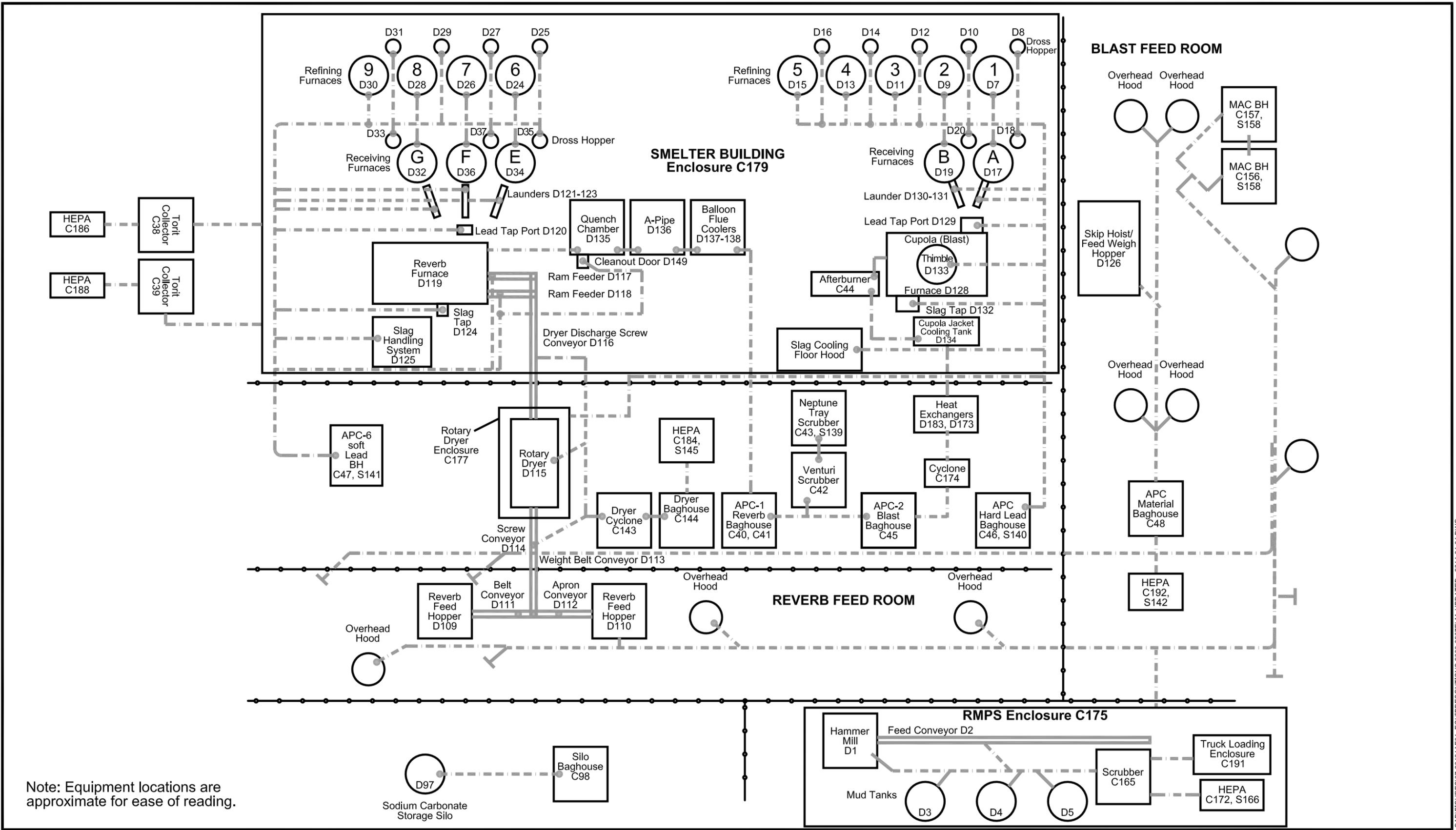
EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

Figure 2



ATTACHMENT A

Air Management Diagrams and Tabulation



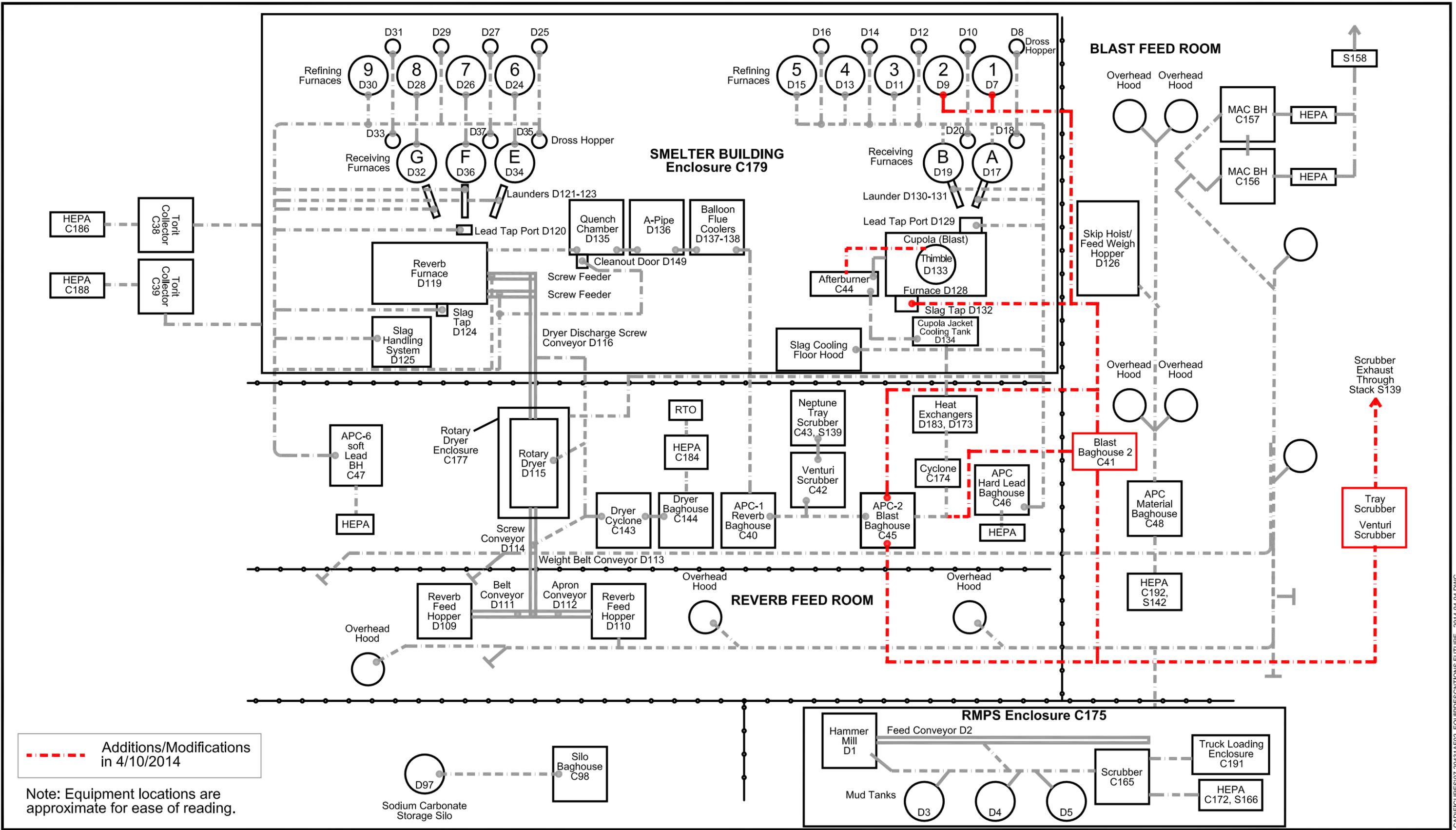
Note: Equipment locations are approximate for ease of reading.



Title V Equipment Designations - As of 1/1/2014

Figure 1

Exide



Title V Equipment Designations - Permit Application (4/10/2014)

Figure
2

Tabulation of Total Enclosure Associated Extraction Flow Rates
Exide Technologies, Vernon, California
(as requested by item 1.C in SCAQMD letter dated 5/9/2014)

<u>Enclosure/Building</u>	<u>System</u>	<u>Current Configuration Nominal Flow (acfm)</u>	<u>Future Configuration Nominal Flow (acfm)</u>	<u>Notes</u>
Smelting/Refining		449,000	499,000	
	North Torit	112,500	112,500	
	South Torit	112,500	112,500	
	Hard Lead BH	112,000	112,000	
	Soft Lead BH	112,000	112,000	
	Metallurgical Scrubbers	0	50,000	In future, scrubbers will handle hygiene extraction air in addition to process exhaust. This portion is reflected here.
Blast Feed Room		112,000	112,000	
	Material Handling BH	112,000	112,000	
Reverb Feed Room and Corridor		89,500	89,500	
	MAC BH (majority)	89,500	89,500	MAC BH System (C156 and C157) nominal capacity of 100,000 cfm less 5,500 applied to RMPS building and 5,000 cfm used to filter exhaust from kettle combustion flues
RMPS		32,500	32,500	
	MAPCO Demister	27,000	27,000	
	MAC BH (portion)	5,500	5,500	
Baghouse Row				
	Kiln Dryer BH	13,000	15,000	Baghouse Row enclosure is connected and open to smelting/refining building and adjoining feed rooms. Flows extracted from hooding/systems in those enclosures draw also from the baghouse row enclosure and impose negative pressure on that enclosure.



ATTACHMENT B

Housekeeping Forms

DESULFURIZATION AND RMPS BUILDING INTERIOR HOUSEKEEPING - DAILY LOG
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

MONTH: _____

YEAR: _____

INITIAL IF HOUSEKEEPING WAS COMPLETED

DATE	MUD TANK BUILDING		RMPS BUILDING (includes Plastic Chip Loading Area and RMPS Unloading Dock)				NOTES		
	Daily Washing exterior of Units 7, 8, 9, 10, 67 (tanks)	Wash water flushed, squeegeed, vacuumed or pushed into sump	Wash interior surfaces each shift hammer mill is operated			Daily Washing exterior of Units 5, 6, 12, 13, 14, 41, 66, 79, 82 (tanks)		Daily washing exterior of Units 40, 42, 43, 44, 45, 68, 70, 80, 81, 83, 84, 85, 86 (misc units)	Wash water flushed, squeegeed, vacuumed or pushed into floor drains or sump
			Day	Swing	Night				
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BAGHOUSE BUILDING INTERIOR HOUSEKEEPING - DAILY LOG
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

MONTH: _____

YEAR: _____

INITIAL IF HOUSEKEEPING WAS COMPLETED

DATE	BAGHOUSE BUILDING										NOTES
	Wash or vacuum Tire Wash each shift			Wash or vacuum Transfer Area to Corridor each shift			Daily Washing lower 4 feet of building walls and columns and rotary kiln enclosure	Daily washing exterior of Units 31, 32, 88	Daily washing area north and east of Blast Furnace Baghouse	Wash water flushed, squeegeed, vacuumed or pushed into sumps	
	Day	Swing	Night	Day	Swing	Night					
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SMELTER BUILDING AND FINISHED LEAD BUILDING INTERIOR HOUSEKEEPING - DAILY LOG
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

MONTH: _____

YEAR: _____

INITIAL IF HOUSEKEEPING WAS COMPLETED

DATE	SMELTER BUILDING							FINISHED LEAD BUILDING							NOTES
	Wash or vacuum floor each shift			Wash or vacuum Transfer Area to Finished Lead Building each shift			Wash water flushed, squeegeed, vacuumed or pushed into sump	Wash or vacuum floor each shift			Wash or vacuum Transfer Area to Smelter Building each shift			Wash water flushed, squeegeed, vacuumed or pushed into sump	
	Day	Swing	Night	Day	Swing	Night		Day	Swing	Night	Day	Swing	Night		
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NO CLEANING WITHIN TWO FEET OF FURNACES, REFINING EQUIPMENT, AND HOT MATERIALS. WATER USE REQUIRES APPROVAL BY ENVIRONMENTAL MANAGER AND AREA SUPERVISOR.

BUILDING INTERIOR HOUSEKEEPING - MONTHLY LOG
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

MONTH: _____ YEAR: _____ INSPECTOR: _____
 INITIAL IF HAND VACUUMING OCCURRED ON FLOOR AND HORIZONTAL SURFACES TO 8 FEET ABOVE THE FLOOR. PAY SPECIAL ATTENTION TO DOORWAYS, SEAMS, CONNECTIONS AND HARD TO REACH AREAS. NOTE IF AREA WAS NOT ACCESSIBLE.

BUILDING	FLOOR - HAND VACUUMED		DATE	INITIALS	HORIZONTAL SURFACES - HAND VACUUMED		DATE	INITIALS	NOTES
	YES	NO			YES	NO			
MUD TANK BUILDING	YES	NO			YES	NO			
RMPS	YES	NO			YES	NO			
REVERB FEED ROOM	YES	NO			YES	NO			
CORRIDOR	YES	NO			YES	NO			
BLAST FEED ROOM	YES	NO			YES	NO			
BAGHOUSE (includes areas south and west of Blast Furnace Baghouse not subject to daily housekeeping)	YES	NO			YES	NO			
SMELTER (except hot surfaces, and surfaces above hot surfaces and materials)	YES	NO			YES	NO			
FINISHED LEAD	YES	NO			YES	NO			

BUILDING INTERIOR HOUSEKEEPING - ANNUAL LOG
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

MONTH: _____ YEAR: _____ INSPECTOR: _____
 INITIAL IF HAND VACUUMING OCCURRED ON FLOOR AND HORIZONTAL SURFACES TO AND INCLUDING CEILING. PAY SPECIAL ATTENTION TO DOORWAYS, SEAMS, CONNECTIONS AND HARD TO REACH AREAS. NOTE IF AREA WAS NOT ACCESSIBLE.

BUILDING	FLOOR - HAND VACUUMED		DATE	INITIALS	HORIZONTAL SURFACES - HAND VACUUMED		DATE	INITIALS	NOTES
	YES	NO			YES	NO			
MUD TANK BUILDING	YES	NO			YES	NO			
RMPS	YES	NO			YES	NO			
REVERB FEED ROOM	YES	NO			YES	NO			
CORRIDOR	YES	NO			YES	NO			
BLAST FEED ROOM	YES	NO			YES	NO			
BAGHOUSE	YES	NO			YES	NO			
SMELTER	YES	NO			YES	NO			
FINISHED LEAD	YES	NO			YES	NO			



ATTACHMENT C

Inspection Forms

DESULFURIZATION BUILDING - DAILY HOUSEKEEPING INSPECTION FORM
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

DATE: _____

INSPECTOR: _____

UNIT/AREA	SCORE (CIRCLE ONE)				NOTES
Unit 7, North Mud Tank	3	2	1	0	
Unit 8, Center Mud tank	3	2	1	0	
Unit 9, South Mud Tank	3	2	1	0	
Unit 10, South Acid Storage Tank	3	2	1	0	
Unit 67, Acid Overflow Tank B	3	2	1	0	
Equipment and man doors to RMPS Building	3	2	1	0	
TOTAL SCORE					
AVERAGE SCORE (TOTAL SCORE / 6)					
NOTES:					

SCORE:

3 = CLEAN TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (PERFECT CONDITION).

2 = SOME SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA. CORRECT DURING NEXT ROUND OF HOUSEKEEPING.

1 = SIGNIFICANT SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (POOR CONDITION). IMMEDIATE HOUSEKEEPING REQUIRED.

0 = REQUIRED HOUSEKEEPING WAS NOT PERFORMED

INSPECTOR SHOULD COMPARE TANK/UNIT CONDITION TO VISUAL BENCHMARK. NOTE ANY OVERTOPPING, SPILLAGE, STAINING, SOLID ACCUMULATIONS (SEDIMENTS, PLASTIC CHIPS) OR OTHER DEBRIS ON TANK/UNIT EXTERIOR, FOUNDATION, AND FLOOR AREA. NOTE ANY TRACKING OF SOLIDS OR LIQUIDS AT DOORWAYS. NOTE IF DOORS ARE NOT CLOSED, AND IF MAINTENANCE IS REQUIRED.

RMPS BUILDING - DAILY HOUSEKEEPING INSPECTION FORM
EXIDE TECHNOLOGIES
VERNON, CALIFORNIA

DATE: _____

INSPECTOR: _____

UNIT/AREA	SCORE (CIRCLE ONE)				NOTES
	3	2	1	0	
Unit 5, Battery Dump Bin Sump	3	2	1	0	
Unit 6, RMPS Floor Sump	3	2	1	0	
Unit 12, Paste Settler (Santa Maria)	3	2	1	0	
Unit 13, Sink/Float Separator	3	2	1	0	
Unit 14, Recycle Tank	3	2	1	0	
Unit 40, RMPS Hammermill	3	2	1	0	
Unit 41, Waste Acid Circulation Tank	3	2	1	0	
Unit 42, East Elutriation Column	3	2	1	0	
Unit 43, West Elutriation Column	3	2	1	0	
Unit 44, WWTP Filter Press	3	2	1	0	
Unit 45, RMPS Filter Press Unit B	3	2	1	0	
Unit 66, Acid Overflow Tank A	3	2	1	0	
Unit 68, Clarifying Acid Filter Press	3	2	1	0	
Unit 70, Oscillating Pan Feeder	3	2	1	0	
Unit 79, Surge Tank (Proposed)	3	2	1	0	
Unit 80, Centrifuge No. 1	3	2	1	0	
Unit 81, Centrifuge No. 2 (Proposed)	3	2	1	0	
Unit 82, RMPS Acid Storage Tank (Proposed)	3	2	1	0	
Unit 83, Shredder (Proposed)	3	2	1	0	
Unit 84, Vibrating Screen (Proposed)	3	2	1	0	
Unit 85, Industrial Cell Extraction (Proposed)	3	2	1	0	
Unit 86, Industrial Cell Shredder (Proposed)	3	2	1	0	
Plastic Trailer Loading Dock	3	2	1	0	
Unloading Dock	3	2	1	0	
Hallway to Pan Feeder	3	2	1	0	
Exterior equipment door at Plastic Trailer Loading	3	2	1	0	
Exterior man door at Plastic Trailer Loading	3	2	1	0	
(2) Exterior equipment door at Unloading Dock	3	2	1	0	
Exterior man door at Unloading Dock	3	2	1	0	
Exterior man door at north wall	3	2	1	0	
Interior equipment and man doors to Baghouse Build	3	2	1	0	
Interior equipment and man doors to Desulfurization	3	2	1	0	
Entryway to Reverb Furnace Feed Room	3	2	1	0	
TOTAL SCORE					
AVERAGE SCORE (TOTAL SCORE / 33)					

NOTES:

SCORE:

- 3 = CLEAN TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (PERFECT CONDITION).
- 2 = SOME SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA. CORRECT DURING NEXT ROUND OF HOUSEKEEPING.
- 1 = SIGNIFICANT SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (POOR CONDITION). IMMEDIATE HOUSEKEEPING REQUIRED.
- 0 = REQUIRED HOUSEKEEPING WAS NOT PERFORMED

INSPECTOR SHOULD COMPARE TANK/UNIT CONDITION TO VISUAL BENCHMARK. NOTE ANY OVERTOPPING, SPILLAGE, STAINING, SOLID ACCUMULATIONS (SEDIMENTS, PLASTIC CHIPS) OR OTHER DEBRIS ON TANK/UNIT EXTERIOR, FOUNDATION, AND FLOOR AREA. NOTE ANY TRACKING OF SOLIDS OR LIQUIDS AT DOORWAYS. NOTE IF DOORS ARE NOT CLOSED, AND IF MAINTENANCE IS REQUIRED.

CONTAINMENT BUILDINGS - DAILY HOUSEKEEPING INSPECTION FORM
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

DATE: _____

INSPECTOR: _____

UNIT/AREA	SCORE (CIRCLE ONE)				NOTES
	3	2	1	0	
Unit 33, Reverb Furnace Feed (Upper Feed Room)	3	2	1	0	
Unit 33, Reverb Furnace Feed (Lower Feed Room)	3	2	1	0	
Unit 33, Reverb Furnace Feed (Corridor)	3	2	1	0	
Exterior equipment door, southeast corner	3	2	1	0	
Exterior man door, southeast corner	3	2	1	0	
Interior equipment door between Upper and Lower Feed Room	3	2	1	0	
Interior man door, east wall Upper Feed Room, to Baghouse	3	2	1	0	
Interior equipment door, east wall Lower Feed Room, to Baghouse	3	2	1	0	
Exterior man door, south wall Lower Feed Room	3	2	1	0	
Interior man door, north wall Corridor, to Baghouse	3	2	1	0	
Interior equipment door, north wall Corridor to Baghouse	3	2	1	0	
Interior man door, west wall Corridor, to Baghouse	3	2	1	0	
Unit 51, Truck Wash Sump	3	2	1	0	
Unit 34, Blast Furnace Feed Room	3	2	1	0	
Interior equipment door, west wall, to Corridor	3	2	1	0	
Interior personnel door, west wall, to Corridor	3	2	1	0	
Interior equipment door, northwest wall, to Smelter	3	2	1	0	
(2) Exterior equipment door, south wall	3	2	1	0	
Exterior man door, south wall	3	2	1	0	
Exterior equipment door, east wall	3	2	1	0	

TOTAL SCORE _____
 AVERAGE SCORE (TOTAL SCORE / 20) _____

NOTES:

SCORE:

- 3 = CLEAN TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (PERFECT CONDITION).
- 2 = SOME SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA. CORRECT DURING NEXT ROUND OF HOUSEKEEPING.
- 1 = SIGNIFICANT SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (POOR CONDITION). IMMEDIATE HOUSEKEEPING REQUIRED.
- 0 = REQUIRED HOUSEKEEPING WAS NOT PERFORMED

INSPECTOR SHOULD COMPARE TANK/UNIT CONDITION TO VISUAL BENCHMARK. NOTE ANY OVERTOPPING, SPILLAGE, STAINING, SOLID ACCUMULATIONS (SEDIMENTS, PLASTIC CHIPS) OR OTHER DEBRIS ON TANK/UNIT EXTERIOR, FOUNDATION, AND FLOOR AREA. NOTE ANY TRACKING OF SOLIDS OR LIQUIDS AT DOORWAYS. NOTE IF DOORS ARE NOT CLOSED, AND IF MAINTENANCE IS REQUIRED.

BAGHOUSE BUILDING - DAILY HOUSEKEEPING INSPECTION FORM
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

DATE: _____

INSPECTOR: _____

UNIT/AREA	SCORE (CIRCLE ONE)				NOTES
Unit 31, North Flue Dust Slurry Tank	3	2	1	0	
Unit 32, South Flue Dust Slurry Tank	3	2	1	0	
Unit 69, Rotary Kiln	3	2	1	0	
Unit 88, Neptune Scrubber Tank (Proposed)	3	2	1	0	
Interior equipment and man doors to RMPS	3	2	1	0	
Interior equipment and man doors to Reverb Feed Room	3	2	1	0	
Interior equipment and man doors to Smelter Building	3	2	1	0	
Exterior equipment door at northwest corner at tire wash	3	2	1	0	
Exterior man door at north east corner	3	2	1	0	
TOTAL SCORE					
AVERAGE SCORE (TOTAL SCORE / 9)					

NOTES:

SCORE:

- 3 = CLEAN TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (PERFECT CONDITION).
 - 2 = SOME SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA. CORRECT DURING NEXT ROUND OF HOUSEKEEPING.
 - 1 = SIGNIFICANT SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (POOR CONDITION). IMMEDIATE HOUSEKEEPING REQUIRED.
 - 0 = REQUIRED HOUSEKEEPING WAS NOT PERFORMED
- INSPECTOR SHOULD COMPARE TANK/UNIT CONDITION TO VISUAL BENCHMARK. NOTE ANY OVERTOPPING, SPILLAGE, STAINING, SOLID ACCUMULATIONS (SEDIMENTS, PLASTIC CHIPS) OR OTHER DEBRIS ON TANK/UNIT EXTERIOR, FOUNDATION, AND FLOOR AREA. NOTE ANY TRACKING OF SOLIDS OR LIQUIDS AT DOORWAYS. NOTE IF DOORS ARE NOT CLOSED, AND IF MAINTENANCE IS REQUIRED.

SMELTER BUILDING - DAILY HOUSEKEEPING INSPECTION FORM
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

DATE: _____

INSPECTOR: _____

UNIT/AREA	SCORE (CIRCLE ONE)				NOTES
	3	2	1	0	
Unit 36, Reverb Furnace	3	2	1	0	
Unit 37, Blast Furnace	3	2	1	0	
Unit 89, Receiving Kettle A	3	2	1	0	
Unit 90, Receiving Kettle B	3	2	1	0	
Unit 91, Receiving Kettle E	3	2	1	0	
Unit 92, Receiving Kettle F	3	2	1	0	
Unit 93, Receiving Kettle G	3	2	1	0	
Unit 94, Refining Kettle 1	3	2	1	0	
Unit 95, Refining Kettle 2	3	2	1	0	
Unit 96, Refining Kettle 3	3	2	1	0	
Unit 97, Refining Kettle 4	3	2	1	0	
Unit 98, Refining Kettle 5	3	2	1	0	
Unit 99, Refining Kettle 6	3	2	1	0	
Unit 100, Refining Kettle 7	3	2	1	0	
Unit 101, Refining Kettle 8	3	2	1	0	
Unit 102, Refining Kettle 9	3	2	1	0	
Exterior man doors on east wall	3	2	1	0	
Exterior equipment door at southeast corner	3	2	1	0	
Interior equipment door at northeast corner, to Finished Lead	3	2	1	0	
Interior equipment and man doors on west wall, to Baghouse	3	2	1	0	
Interior equipment door, southwest wall, to Blast Furnace Feed Room	3	2	1	0	
TOTAL SCORE					
AVERAGE SCORE (TOTAL SCORE / 21)					
NOTES:					

SCORE:

3 = CLEAN TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (PERFECT CONDITION).

2 = SOME SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA. CORRECT DURING NEXT ROUND OF HOUSEKEEPING.

1 = SIGNIFICANT SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (POOR CONDITION). IMMEDIATE HOUSEKEEPING REQUIRED.

0 = REQUIRED HOUSEKEEPING WAS NOT PERFORMED

INSPECTOR SHOULD COMPARE TANK/UNIT CONDITION TO VISUAL BENCHMARK. NOTE ANY OVERTOPPING, SPILLAGE, STAINING, SOLID ACCUMULATIONS (SEDIMENTS, PLASTIC CHIPS) OR OTHER DEBRIS ON TANK/UNIT EXTERIOR, FOUNDATION, AND FLOOR AREA. NOTE ANY TRACKING OF SOLIDS OR LIQUIDS AT DOORWAYS. NOTE IF DOORS ARE NOT CLOSED, AND IF MAINTENANCE IS REQUIRED.

FINISHED LEAD BUILDING - DAILY HOUSEKEEPING INSPECTION FORM
 EXIDE TECHNOLOGIES
 VERNON, CALIFORNIA

DATE: _____

INSPECTOR: _____

UNIT/AREA	SCORE (CIRCLE ONE)				NOTES
(3) Exterior equipment doors, west wall	3	2	1	0	
(2) Exterior man doors, west wall	3	2	1	0	
Exterior man doors, east wall	3	2	1	0	
TOTAL SCORE:					
AVERAGE SCORE (TOTAL SCORE / 3)					
NOTES:					

SCORE:

- 3 = CLEAN TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (PERFECT CONDITION).
- 2 = SOME SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA. CORRECT DURING NEXT ROUND OF HOUSEKEEPING.
- 1 = SIGNIFICANT SPILLAGE/ACCUMULATIONS ON TANK/UNIT EXTERIOR, FOUNDATION AND FLOOR AREA (POOR CONDITION). IMMEDIATE HOUSEKEEPING REQUIRED.
- 0 = REQUIRED HOUSEKEEPING WAS NOT PERFORMED

INSPECTOR SHOULD COMPARE TANK/UNIT CONDITION TO VISUAL BENCHMARK. NOTE ANY OVERTOPPING, SPILLAGE, STAINING, SOLID ACCUMULATIONS (SEDIMENTS, PLASTIC CHIPS) OR OTHER DEBRIS ON TANK/UNIT EXTERIOR, FOUNDATION, AND FLOOR AREA. NOTE ANY TRACKING OF SOLIDS OR LIQUIDS AT DOORWAYS. NOTE IF DOORS ARE NOT CLOSED, AND IF MAINTENANCE IS REQUIRED.



ATTACHMENT D

Containment Building Proposed Wall Repairs

CORRIDOR AND UPPER FEED ROOM EXIT DOOR, ROLLUP DOOR AND WALL MODIFICATION

DRAWING SHEET INDEX	
SHEET NUMBER	SHEET DESCRIPTION
S 1.0	SITE MAP
S 2.0	GENERAL NOTES
S 2.1	HEALTH SAFETY NOTES
S 3.0	AREA PLAN
S 4.0	ENLARGED CORRIDOR PLAN
S 5.0	ENLARGED FEED ROOM PLAN
S 6.0	DETAILS
S 6.1	DETAILS
S 6.2	DETAILS
S 6.3	DETAILS

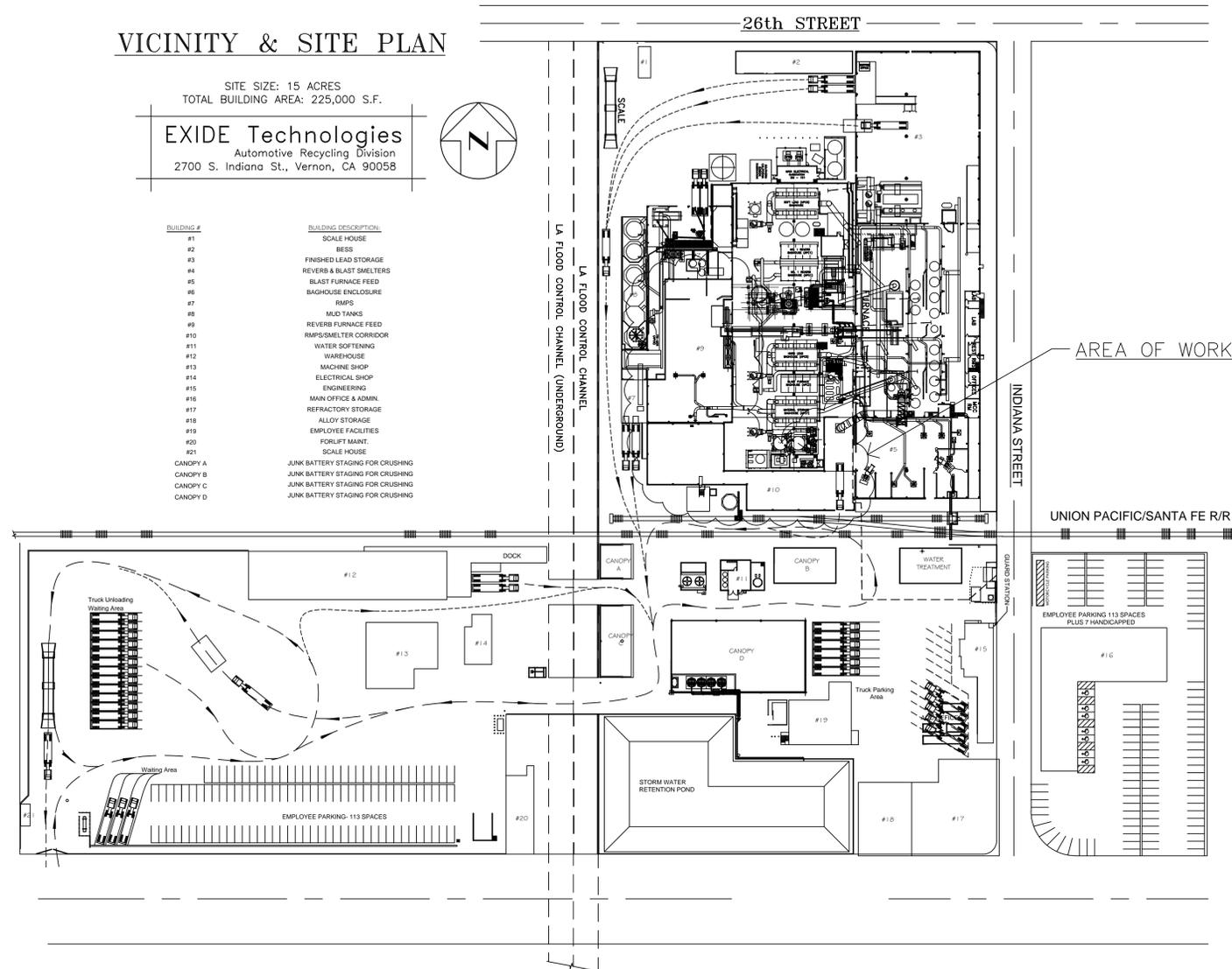
VICINITY & SITE PLAN

SITE SIZE: 15 ACRES
TOTAL BUILDING AREA: 225,000 S.F.

EXIDE Technologies
Automotive Recycling Division
2700 S. Indiana St., Vernon, CA 90058



BUILDING #	BUILDING DESCRIPTION
#1	SCALE HOUSE
#2	BISS
#3	FINISHED LEAD STORAGE
#4	REVERB & BLAST SMELTERS
#5	BLAST FURNACE FEED
#6	BAGHOUSE ENCLOSURE
#7	RMP
#8	MUD TANKS
#9	REVERB FURNACE FEED
#10	RMP/SMELTER CORRIDOR
#11	WATER SORTING
#12	WAREHOUSE
#13	MACHINE SHOP
#14	ELECTRICAL SHOP
#15	ENGINEERING
#16	MAIN OFFICE & ADMIN.
#17	REFRACTORY STORAGE
#18	ALLOY STORAGE
#19	EMPLOYEE FACILITIES
#20	FORKLIFT MAINT.
#21	SCALE HOUSE
CANOPY A	JUNK BATTERY STAGING FOR CRUSHING
CANOPY B	JUNK BATTERY STAGING FOR CRUSHING
CANOPY C	JUNK BATTERY STAGING FOR CRUSHING
CANOPY D	JUNK BATTERY STAGING FOR CRUSHING



MECHANICAL, ELECTRICAL AND FIRE SPRINKLERS
DRAWINGS UNDER SEPARATE PERMIT.



ADVANCED
CONSTRUCTORS, CORP.
P.O. Box 1578
Huntington Beach CA 92647

GENERAL NOTES:

REV.

DATE
00/00/00

REVISIONS

BY
CHK'D
DATE

ADVANCED CONSTRUCTORS CORP.
15906 CHEMICAL LN
HUNTINGTON BEACH, CA 92649

DRAWING RECORD INFORMATION
 DRW BY: BOB CARROLL DATE: 2/12/2015 SCALE: N.T.S.
 DRW CHK: DATE: ARCH: D
 DRW TIT: CONTAINMENT FLOOR DOOR RAMP WALLS

EXIDE TECHNOLOGIES VERNON CA

DRAWING TITLE:
SITE MAP

PROJECT NUMBER 2014293-2	DRAWING TYPE STRUCTURAL	DRAWING NUMBER S 1.0	REV # 0
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DESIGN CRITERIA

DESIGN CODE - 2013 C.B.C

WIND: BASIC WIND SPEED - 85MPH

IMPORTANCE FACTOR - 1.0

EXPOSURE - D

SEISMIC: OCC. CAT. I

DESIGN CAT. - D

S.D.S - 1.448

S.D.1 - 0.754

R = 3.0

Ω_0 = 2.0

I = 1.0

CRITERIA:

Allowable soil bearing under foundation is 1000 PSF, Surface Bearing, as noted in H.V. law master # CO., INC. report 87-10961, date February 16, 1987, Dames & Moore No. 11831-001-14 dated May 5th, 1980 and update Per report No. 14-0055, dated March 7, 2011 by Alta California Geotech Inc. and updated Seismic Design Parameters dated 1-7-2015 by Alta California Geotech Inc.

GENERAL NOTES

- All construction and workmanship shall conform to the following codes:
 - The California Building Code 2013 edition as adopted by the City of Vernon.
 - The California Mechanical Code 2013 Edition
 - The AWS D1.1 Welding Code
 - AWS D9.1M/D9.1:2006 Sheet Metal Welding Code
 - ASME B31.3-2012 Process Pipe
 - SMACNA Round Industrial Duct Construction Standards
- The contractor shall verify all dimensions and conditions at the site. All discrepancies shall be called to the attention of the engineer and shall be resolved before proceeding with the work.
- All dimensions shall take precedence over the scale shown on plans, sections and details.
- Notes and details on the drawings shall take precedence over general notes and typical details.
- The contractors to provide barricade, signs, lights, or other devices around the work site as appropriated.
- All continuous inspection referred to below shall be paid for by the owner. Contractor is responsible for contracting inspector and scheduling. Contractor shall also inform the project engineer of all scheduled inspections a minimum of one day prior to inspection. Special deputy inspection is required for all rebar placement, concrete placement, non shrink grouting, epoxy anchors, wedge anchors, high strength bolting, and structural welding.
- All building permits shall be acquired by the owner, any structure deviation or change to the drawings shall be submitted to owner in writing for approval by both the owner and engineer before proceeding with the work.
- Separate parking, mechanical, plumbing, electrical and fire permits.
- Structural observation will be required per section 1709 of the 2013 C.B.C.
- All shop drawings are to be submitted to the engineer for approval prior to fabrication.
 - It shall be the contractor's responsibility to comply with all of the title 8 section of the CAL-OSHA construction safety orders dealing with scaffolding and working on platforms and at sections #1635, #1636 and #1637. (General scaffolding), #1644 (Metal scaffolding), #3642(Boom lift operating instructions) and #3646 (Scissor lift operating instructions) of the latest revisions, are specifically referenced.
 - Work shall be coordinated with other contractors working in the construction area to the best interest of the owner.
 - All work area shall be kept in reasonably clean and neat condition and shall not impede other contractors or plant operations.
 - The erector shall submit a written description of their erection process to Exide Technologies for review such that any unusual or unforeseen problems that might occur can be dealt with before erection begins. This submission must be presented no less than 7 calendar days before erector is to begin.
 - The erector shall submit a written schedule and time table indicating move in date and finish date. Provide a written plan of installation of the footings and structure within the Exide plant operations.
 - The contractor shall designate one employee or agent working for the contractor to be a liaison between the contractor's erection crew and the Exide plant engineer. This individual shall be present at the jobsite at all times during the erection/demolition process in case of any problems during this time.

GENERAL CONCRETE NOTES

- All concrete materials, standards and details shall conform to the latest revision of the American concrete institute specification for concrete construction. ACI 318-11
- Concrete is to be 4500 PSI at 28 days. All cement used shall conform to ACI 318, section 4.3, and mix design for sulfate resistance. All 4500 PSI concrete shall have special inspection, which shall be paid for by the owner.
- Allowable soil bearing under foundation is 2500 PSF, 3 Feet into undisturbed soil, as noted in H.V. law master # CO., INC. report 87-10961, date February 16, 1987, Dames & Moore No. 11831-001-14 dated May 5th, 1980 and update Per report No. 14-0055, dated March 7, 2011 by Alta Ca Geotech Inc.
- All bar reinforcing steel for concrete shall be deformed bars conforming to ASTM A615, Grade 60. Bars splices shall be 40 diam's. Continuous bars shall be full length or have staggered splices. All bars requiring bends shall be bent cold, and all bend or hook diameters shall be in accordance with ACI specifications.
- Unless noted, concrete cover for reinforcing bars shall be 3 inches for concrete poured directly against earth. Elsewhere concrete cover shall be 2 inches for main reinforcement, with a minimum of 1 1/2 inches for any bar. The clear distance between parallel bars shall not be less than the normal bar diameter, 1 1/2 times the maximum size aggregate, or 1 inch minimum.
- All concrete embedments, anchor bolts, etc., shall be accurately placed and positively secured before concrete placing is begun. All reinforcement and anchor bolts are to be free of oil, grease, dirt, paint and loose rust before placing concrete.
- All structure steel for anchor bolts, concrete inserts, etc. shall be ASTM A-36 U.N. Stainless embeds and anchors shall be ASTM 304 stainless steel, U.N. when noted on drawings
- Bolts: ASTM-A307 for all shop and/or field connections using 3/4" unfinished America standard regular bolts unless noted otherwise "Anchor bolts" shall be hook bolts (with 2" hook) or machine bolts with plate washer 2-1/2" Sq x 1" thick tack welded to bolt head.
- All concrete exposed corners and edges shall be chamfered 3/4 inch, U.N.
- All existing sub grade under the new foundations shall be compacted to 95% relative density per the soil report noted above. If required compaction cannot be reached, the sub grade shall be over excavated to a minimum depth of 2(two) feet below of the new foundation and the existing sub grade at that level shall be compacted to a minimum of 85% relative density. A layer of base rock shall then be compacted to 95% relative density. All existing sub grade under new and reworked slabs shall be 40% relative density. All soils inspections shall be paid for by the owner.
- No backfilling against structure concrete shall be performed until concrete has reached its design strength, unless directed otherwise by the engineer. All new backfill required shall be supplied by the contractor and shall be free from debris and other foreign objects. Placing of all backfill is to be by the contractor. Backfill shall be compacted to 40% relative density.
- All construction joints shall be cleaned of all dirt and foreign material. Joints shall be thoroughly wetted immediately before placing new concrete.
- Concrete construction work is to be coordinated with plant operations.
- All concrete shall be cured by continuous water sprinkling or flooding for 7 days or with a liquid membrane curing compound conforming to ASTM standard 309. Liquid membrane curing compounds shall be applied in accordance with manufactures recommendations, but at a rate not exceeding 200 SQ. FT. per gallon
- All excavated and demolished materials shall be disposed of by the owner who will supply a bin, hopper or a specified area located near the project site, that the contractor can deposit all excavated materials into.
- All grout used under frames and base plates shall be "non-shrink", "non-expansive" type.
- All joints sealant shall be "hornifex" two component polysulfide rubber sealant or approved equal and applied to manufactures specifications. Concrete edges that are to receive joint sealant shall be place against non-oiled forms. The non-oiled portion shall extend a minimum of 2 1/2 inches from the edge to be sealed
- Remolded joint filler shall be "rodfoam", No. 327 or approved equal.
- All drilled concrete anchors shall be A193 GR.BG stainless steel, unless otherwise notes and shall be anchored with SIMPSON SET-XP EPOXY (ICC-ES ESR 2508). Installation of anchors shall have continuous inspection.
- All water stop's shall be "petro stop" VRB4-316, manufacture by the vinylux Corp., or approved equal and installed according to manufacturer's specification.

GENERAL STEEL NOTES

- Standards and details shall conform to the specification for the design, fabrication and erection of structure steel for the America institute of steel construction, 14TH edition.
- All structure shapes and plates shall conform to the latest ASTM specification A-36. W shapes may be A992 or A-36.
- All stainless steel shapes and plates shall conform to the latest ASTM Spec. 304, U.N.O.
- All material for round pipe shall conform to the latest ASTM specifiton A-53, GRADE B.
- All structural tubing shall conform to the latest ASTM specification A-500, GRADE B or C.
- Welded shop connections shall be welded to the fullest extent possible, unless noted otherwise on drawings.
- All structure welding shall be by the electric arc. Process using E70XX Electrodes and shall conform to the latest requirements of the American welding society. All welding shall be done by operators certified by local department of building and safety. All structure field welding shall have continuous deputy inspection per Section 1704.3 of CBC provided for by the owner.
- All filler metals for stainless steel shall conform to 316-L stainless steel electrode
- All primary field connections shall be bolted using 3/4 inch diam. ASTM A-307 bolts, unless otherwise noted. Where high strength bolts (A325) are noted on the drawings, bolts shall be A325F and A 325SC high strength bolts. The installation of all high strength bolts shall have continuous inspection.
- Secondary field connections for girts, purlins, stairs, ship ladders and handrail post shall be made with 3/4 inch diam. ASTM-A307 bolts unless otherwise noted on the drawings.
- All stainless steel fasteners shall be 3/4 inch diam (304) stainless steel unless otherwise noted.
- Where welding to existing steel, remove all foreign matter, rust, paint, etc., within 2 inches of the weld lines. Follow AWS D1.1-06 for balance of welding procedure. Check the weld ability of the existing steel by bending A 9 1/2" X 4" X 6" A36 steel plate to the face of the existing column per the fillet weld break test in AWS D1.1-06
- All fabricated structural steel shall be fabricated by an AWS Certified fabricating shop.
- All structural steel to be power tool cleaned in accordance with SSPC-SP3 and will receive one shop coat of primer.
- All structure elements such as walls, columns, beams, etc... to be adequately braced during construction until the structure is sufficiently completed to provide support for the various individual elements as intended in the finished structure.

NOTE:

For HDPE notes and information, refer to Advanced Geoservices, Reverb Furnace Feed Room Floor Installation Plan.

SPECIAL INSPECTIONS

GENERAL:

- Submit a summary statement of all required special inspections prepared by the registered desing professional in responsible charge, per Sections 1704.1.1 and 1705, 2013 CBC.
- The owner or the registered design professional in responsible charge acting as the owner's agent shall employ the special inspector(s), per sections 1704.1, 2013 CBC.
- Special inspectors shall keep records of inspections, shall furnish inspection reports to the Building Official, and to the registered design professional in responsible charge, per Section 1704.1.2, 2013 CBC. Furthermore, any uncorrected discrepancies or work that is not completed in conformance to the approved construction documents is to be brought to the attention of the Building Official and the registered design professional in responsible charge prior to completion of that phase of work.
- Special inspection shall be provided for the following:
 - Placing of concrete per Note 3 in General Concrete Note,
 - All Field Welding per Note 7 under General Structural Notes,
 - All post installed anchors per Note 19 under General Construction Notes.



GENERAL NOTES:

NO.

DATE

REVISIONS

BY

CHK'D.

DATE

ADVANCED CONSTRUCTORS CORP.
15906 CHEMICAL LN
HUNTINGTON BEACH, CA 92649

EXIDE TECHNOLOGIES

VERNON CA

DRAWING TITLE:

GENERAL NOTES

DRAWING RECORD INFORMATION
 DRW. NO. BOB CARROLL
 DATE 2/12/2015
 SCALE N.T.S.
 SHEET ARCH D
 SHEET CONTAINMENT FLOOR DOOR RAMP WALLS

PROJECT NUMBER

DRAWING TYPE

DRAWING NUMBER

2014293-2

STRUCTURAL

S 2.0

REV

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HEALTH AND SAFETY REQUIREMENTS

Health and Safety Program for contractors and their employees doing work for Exide technologies within the perimeter of the company

- Exide Technologies is a manufacturer of lead-acid storage batteries, lead oxide and a smelter of secondary lead. The process can introduce into the plant atmosphere and involve exposure to lead dust, Fume and other hazardous materials as defined by applicable title 8, California code of regulations, section 5216 Cal-OSHA "lead standard". The exposure of Exide Employees to lead is regulated under title 8, section 5216.
- It is the contractor's responsibility to comply with all of the title 8, section 1532.1 "CAL- OSHA construction safety orders, lead". As Amended March 6, 2007, relative to lead exposure to their employees.
- Before work begins, it is the responsibility of the Exide plant manager, or his designated representative to meet with the contractor and evaluate the tasks to be performed at the facility, the number of employees, the potential exposures to lead and other hazardous materials, the time to be spent at the facility, protective equipment required, the medical surveillance program required and the number of participants in the blood program. The contractor will then know what steps will be necessary for it to comply with the lead and work safety standards.
- All Exide facility employees are monitored by a biological monitoring program which is contracted out to and performed at a local clinic. A blood sample must be taken at regular intervals to determine and document the amount of lead a work has absorbed into his or her system.

The contractor must protect the health of its employees. If the job lasts more than one day, the employee's blood must be sampled prior to the start of the job and at the end of the job, additional biological monitoring may be required for contractor employee exposed for extended periods exceeding a month. The contractor is solely responsible for arranging for medical monitoring of its employee who work at any Exide facility in accordance with section 1532.1 "CAL - OSHA construction safety orders, lead", as amended March 6, 2007.
- The following is a summary of title 8, section 1532.1 and is intended as a guideline only for contractors. It in no way relieves the contractors of their obligations under the law.

Respirators.

- *Employees must be fit tested.
- *Wear them properly.
- *Be trained in their use.
- *Use the proper mask depending upon exposure, and
- *Cleared to wear a respirator after a pulmonary test.

Full body work clothing must be issued to each employee.

- * The employee may not leave the premises wearing this clothing.
- *The soiled clothing must be cleaned or disposed of (if disposable)

Exposed employees must wash their hands and face prior to eating, drinking or smoking.

Exposed employees must take a complete shower at the end of the work day, including washing their hair prior to changing into their home clothing and leaving the premises.

Note: Exide Technologies has a shower and locker room facility located directly on their property. At the end of each work day, showers are advised to keep lead contamination from possibly being taken to the employee's household.

Biological monitoring (a blood test) for determining the lead level in employee blood must be done prior to beginning the job and at a minimum right after the job is completed. If the employees are the work site for more than one month, more frequent testing may be necessary.

No tobacco products, food or drinks may be present or consumed in the lead exposed areas.

Training of workers prior to starting the job must be conducted training must cover the hazards of lead and precautions to be taken to prevent lead absorption.

It is recommended that you consult your physician to perform physical examinations if your employees are exposed to lead for more than 30 days.

HEALTH AND SAFETY REQUIREMENTS CONT.

- All contractors shall be responsible for reporting any accident or injury within their operation to Exide Technologies and to CAL - OSHA.

CAL-OSHA District Office.

3550 West 6th, Room 431

Los Angeles, CA 90020

Phone: (213) 736-3041

- Emergency facilities:

- All contractors and their subcontractors and/ or agents shall provide the following information in writing to Exide Technologies to be reviewed by the respective project managers.

Company name

Full business address

Address of record (If different from above)

Telephone number

Description of work to be performed

Contractor's license number

Certification of worker's compensation information

Certification of liability and personnel insurance.

Name of contractor's representative and method to be used to contact the representative at any time.

- Mechanical ventilation ref section 1532.1, subsection (e)

- Lead exposure assessment ref section 1532.1 subsection (d). The contractor shall take air samples in the work areas of the work area and the building modifications to determine, the levels of lead concentration in those areas. The timing of these measurement should allow sufficient time for lab reporting prior to beginning work upon determination of the lead levels the contractor shall compare this data with data normally collected by Exide. The duration of exposure for this project is scheduled to be 12 months.

- Method of compliance, ref, section 1532.1 subsection (c) the contractor shall develop a method of compliance based upon the lead concentration levels data collected above. He shall assure that no employee is exposed to lead at concentrations greater than the permissible exposure limits, peel, which is fifty micrograms per cubic meter of air (50 ug /m3) averaged over an 8 hour day ref Subsection (c).

- Respiratory protection ref, section 1532.1 subsection (f) . The contractor shall supply the type of respiratory protection to his employees in accordance with the table 1 requirements of this subsection (e) commensurate with the work areas levels of lead concentration determined determine above.

- All work shall comply with AQMD 1420.1 as amended March 7, 2014

- All work shall comply with AQMD and Exide Mitigation Plan for Construction of Risk Reduction Measures, RCRA RFI sampling and other Plant Activities dated June 19, 2014.

IMPLEMENTATION OF HEALTH AND SAFETY PROGRAM.

- Lead exposure assessment ref section 1532.1 subsection (d). The contractor shall take air samples in the work areas of the work area and the building modifications to determine, the levels of lead concentration in those areas. The timing of these measurement should allow sufficient time for lab reporting prior to beginning work upon determination of the lead levels the contractor shall compare this data with data normally collected by Exide.

The duration of exposure for this project is scheduled to be 12 months.

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(50 ug /m3) averaged over an 8 hour day ref

Subsection (c).

- Respiratory protection ref, section 1532.1 subsection (f) .The contractor shall supply the type of respiratory protection to his employees in accordance with the table 1 requirements of this subsection (e) commensurate with the work areas levels of lead concentration determined determine above.

- Mechanical ventilation ref section 1532.1, subsection (e)

GENERAL NOTES:

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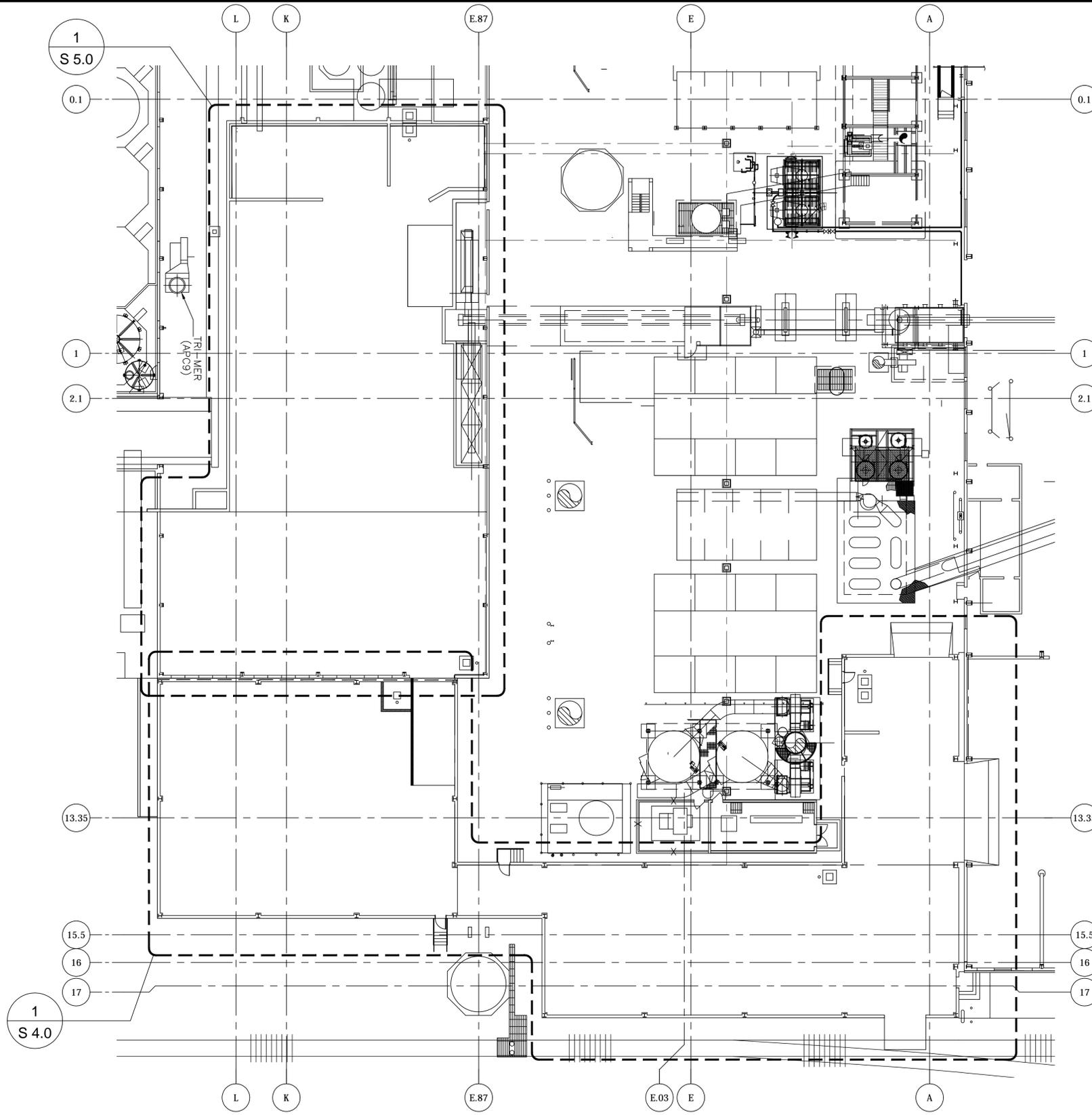
ADVANCED CONSTRUCTORS CORP.
15906 CHEMICAL LN
HUNTINGTON BEACH, CA 92649

DRAWING RECORD INFORMATION			
DRW BY	DATE	SCALE	REV
BOB CARROLL	2/12/2015	N.T.S	
DRW BY	DATE	SCALE	REV
		ARCH D	
DRW BY	DATE	SCALE	REV
		CONTAINMENT FLOOR DOOR PUMP WALLS	

EXIDE TECHNOLOGIES VERNON CA

DRAWING TITLE:
HEALTH SAFETY NOTES

PROJECT NUMBER	DRAWING TYPE	DRAWING NUMBER	REV
2014293-2	STRUCTURAL	S 2.1	0



1 AREA PLAN

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



ADVANCED
CONTRACTORS, CORP.
P.O. Box 1578
Huntington Beach CA 92647

GENERAL NOTES:

NO.

DATE

REVISIONS

BY

CHK'D

DATE

ADVANCED CONTRACTORS CORP.
15906 CHEMICAL LN
HUNTINGTON BEACH, CA 92649

EXIDE TECHNOLOGIES

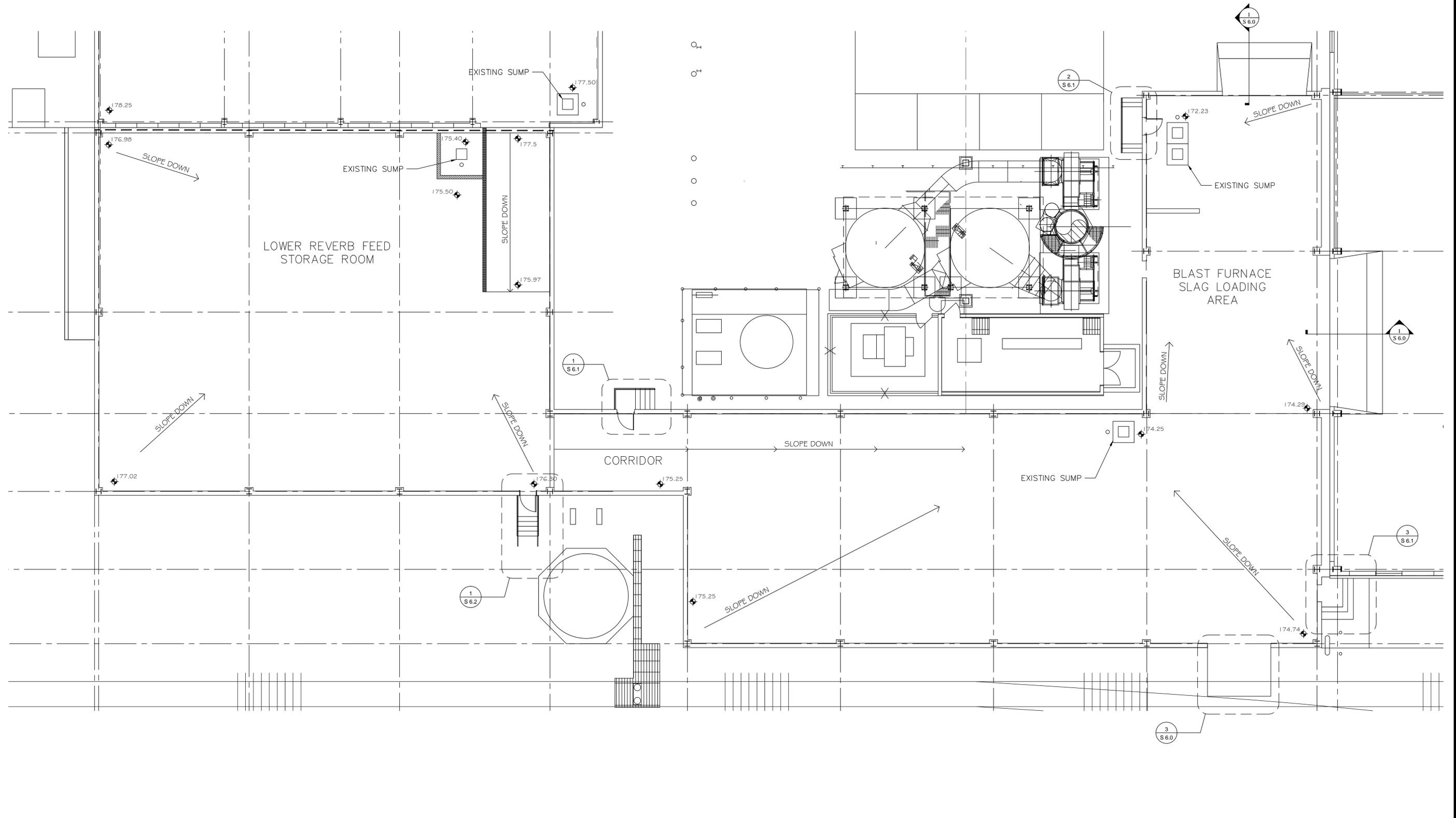
VERNON CA

DRAWING TITLE:

AREA PLAN

DRAWING RECORD INFORMATION			
NO.	DATE	BY	REVISION
1	2/12/2015	BOB CARROLL	AS NOTED
2			ARCH D
3			CONTAINMENT FLOOR DOOR RAMP WALLS

PROJECT NUMBER	DRAWING TYPE	DRAWING NUMBER	REV. NO.
2014293-2	STRUCTURAL	S 3.0	0



1 ENLARGED CORRIDOR PLAN

Scale: 1/8" = 1'-0"



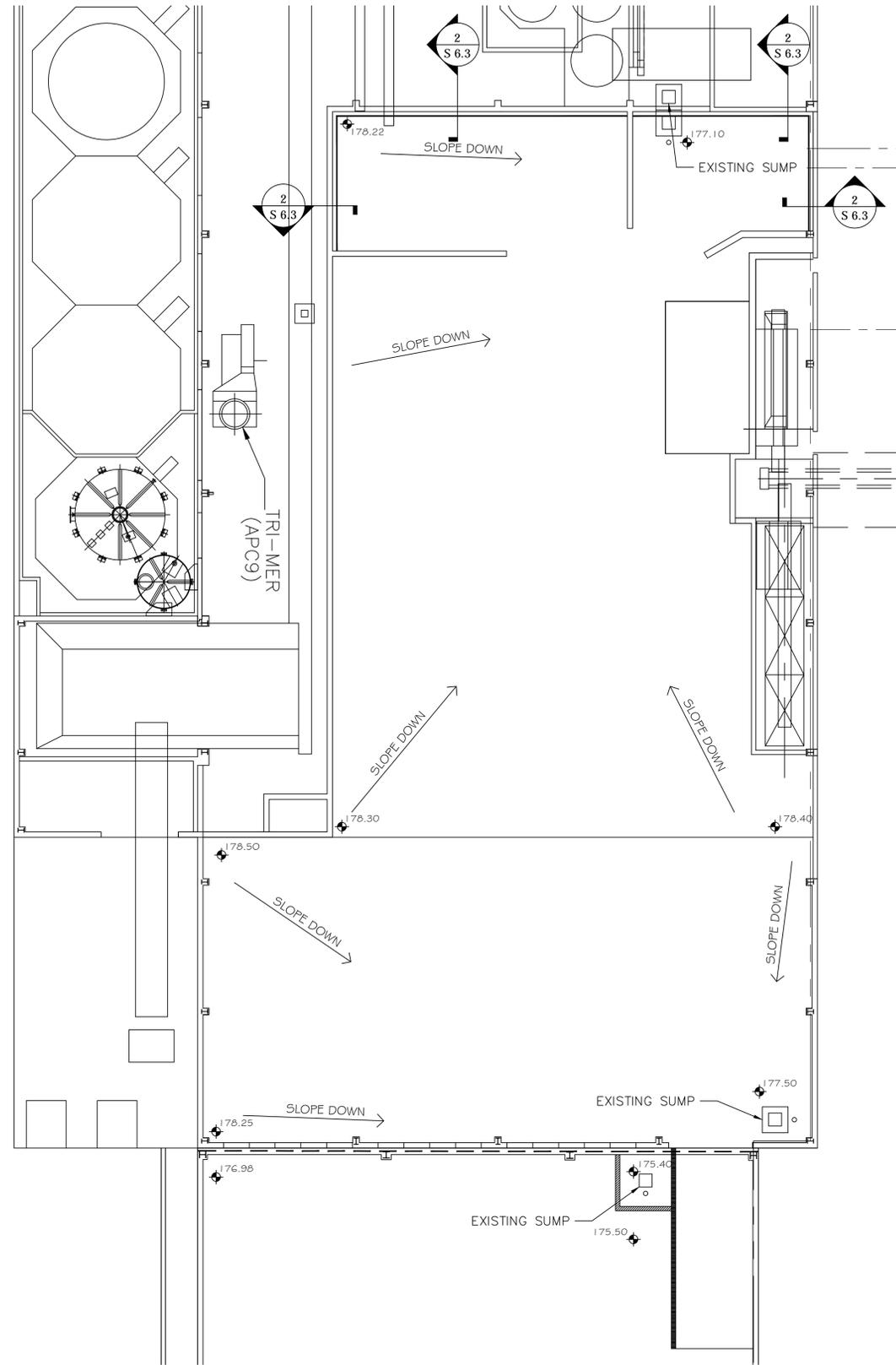
NO.	DATE	BY	CHK'D.	DATE
1	00/00/00			

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NO.	DATE	BY	CHK'D.	DATE

ADVANCED CONSTRUCTORS CORP. 15906 CHEMICAL LN HUNTINGTON BEACH, CA 92649			
DRAWING RECORD INFORMATION			
DRW. NO.	DATE	SCALE	AS NOTED
BOB CARROLL	2/12/2015		
DRW. NO.	DATE	SCALE	ARCH D
DRW. NO.	DATE	SCALE	CONTAINMENT FLOOR DOOR RAMP WALLS

EXIDE TECHNOLOGIES	VERNON CA
DRAWING TITLE: ENLARGED CORRIDOR PLAN	
PROJECT NUMBER 2014293-2	DRAWING TYPE STRUCTURAL
DRAWING NUMBER S 4.0	REV. NO. 0



1 ENLARGED FEED ROOM PLAN

Scale: 3/32" = 1'-0"

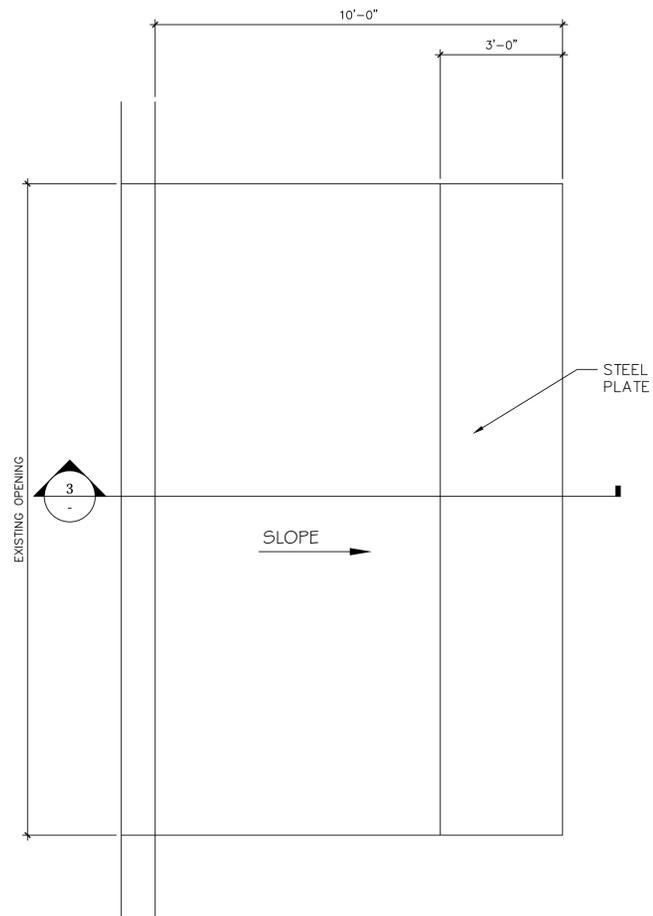


GENERAL NOTES:

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ADVANCED CONSTRUCTORS CORP. 15906 CHEMICAL LN HUNTINGTON BEACH, CA 92649			
DRAWING RECORD INFORMATION			
DRW. NO.	DATE	SCALE	NOTED
BOB CARROLL	2/12/2015	AS NOTED	
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		ARCH D	
DRW. NO.	DATE	SCALE	NOTED
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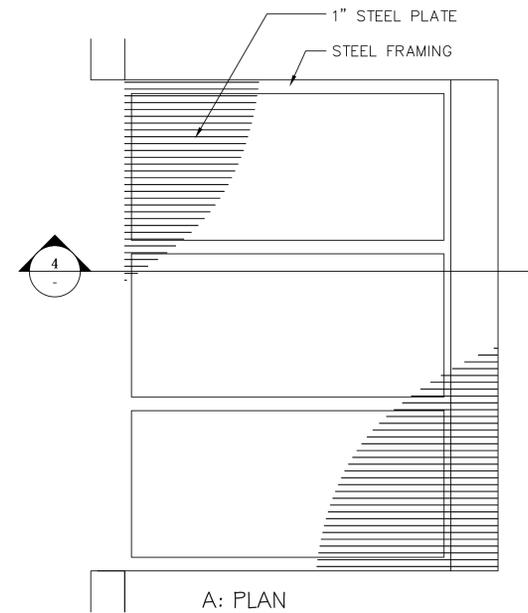
EXIDE TECHNOLOGIES	VERNON CA		
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PROJECT NUMBER	DRAWING TYPE	DRAWING NUMBER	REV. NO.
2014293-2	STRUCTURAL	S 5.0	0



A: PLAN

1 NEW RAMP

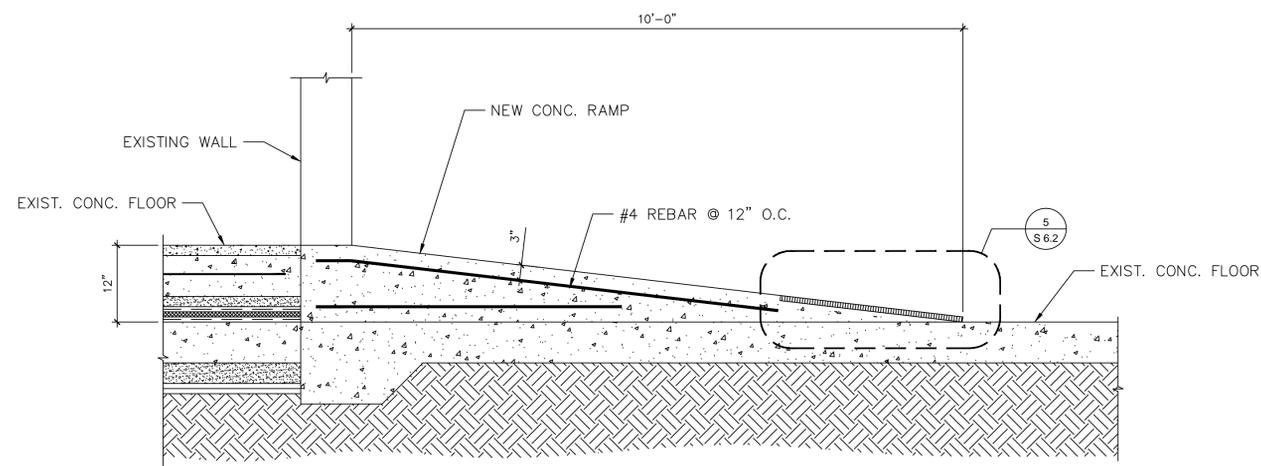
Scale: 1/2" = 1'-0"



A: PLAN

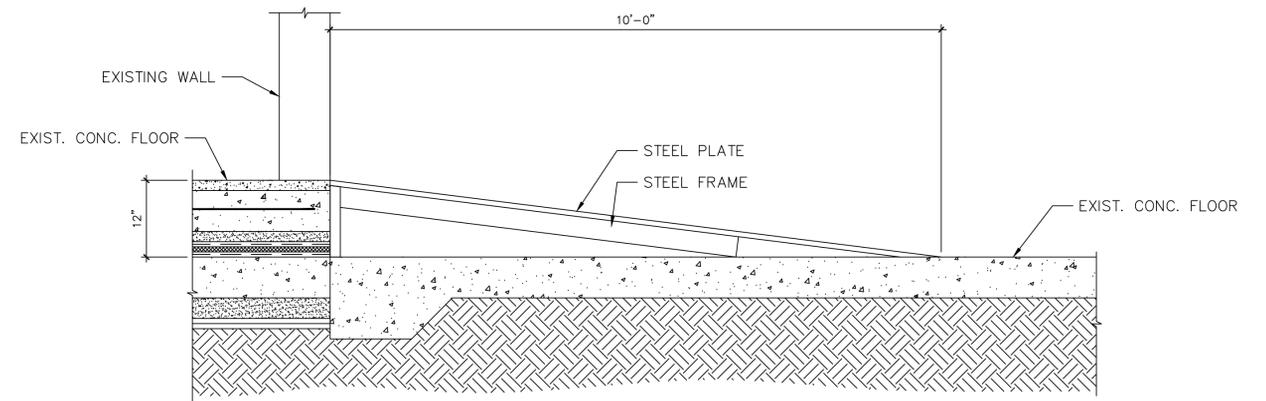
2 REMOVABLE RAMP

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



3 CONCRETE RAMP SECTION

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



4 METAL RAMP SECTION

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



GENERAL NOTES:

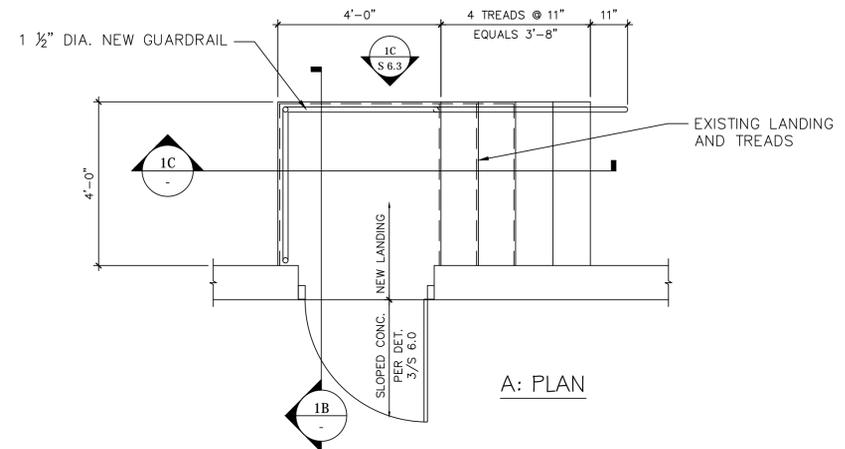
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REVISIONS

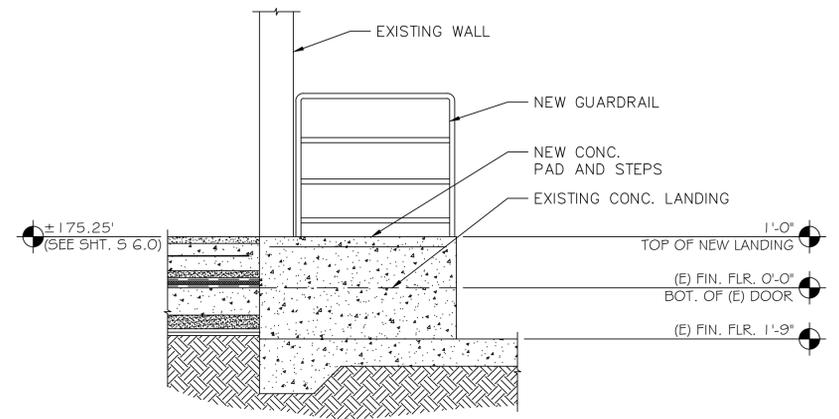
BY	CHK'D	DATE

ADVANCED CONSTRUCTORS CORP. 15906 CHEMICAL LN HUNTINGTON BEACH, CA 92649			
DRAWING RECORD INFORMATION			
DRW. NO.	DATE	SCALE	AS NOTED
BOB CARROLL	2/12/2015		
DRW. NO.	DATE	SCALE	ARCH D
DRW. NO.	DATE	SCALE	CONTAINMENT FLOOR DOOR RAMP WALL

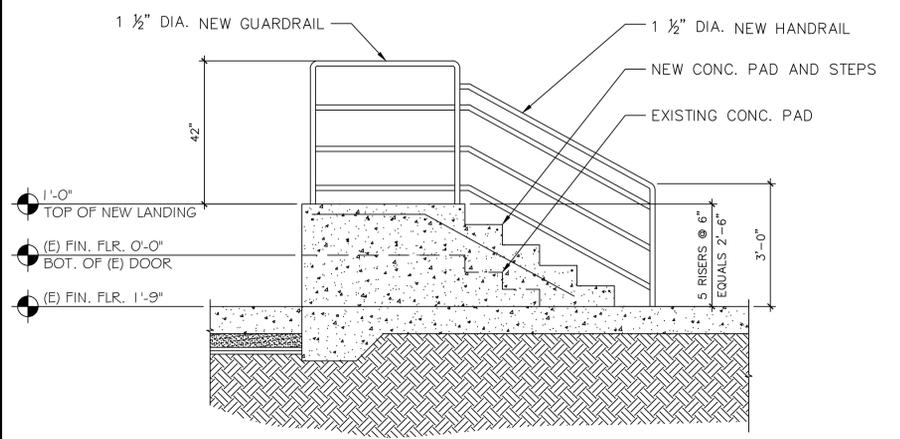
EXIDE TECHNOLOGIES	VERNON CA		
DRAWING TITLE:			
DETAILS			
PROJECT NUMBER	DRAWING TYPE	DRAWING NUMBER	REV. NO.
2014293-2	STRUCTURAL	S 6.0	0



A: PLAN

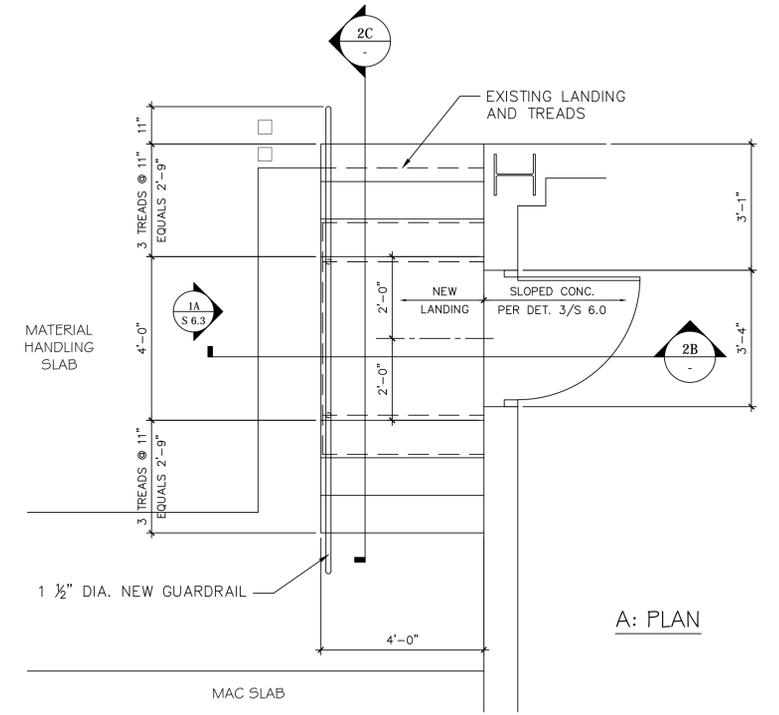


B: SECTION I

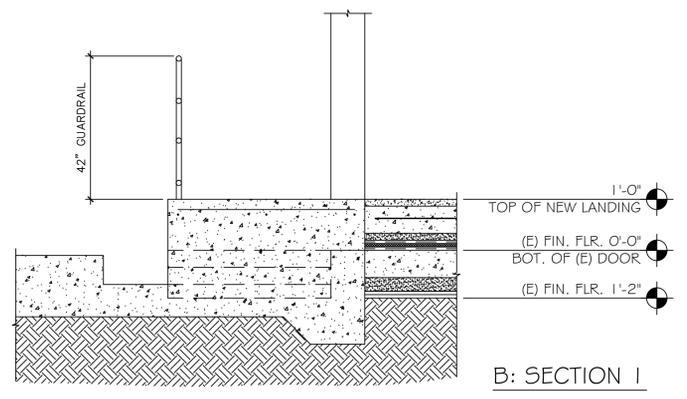


C: SECTION 2

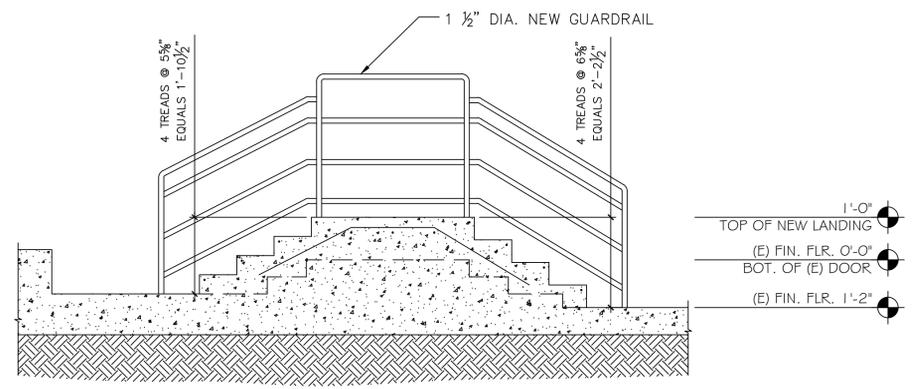
1 NEW LANDING Scale: 1/2" = 1'-0"



A: PLAN

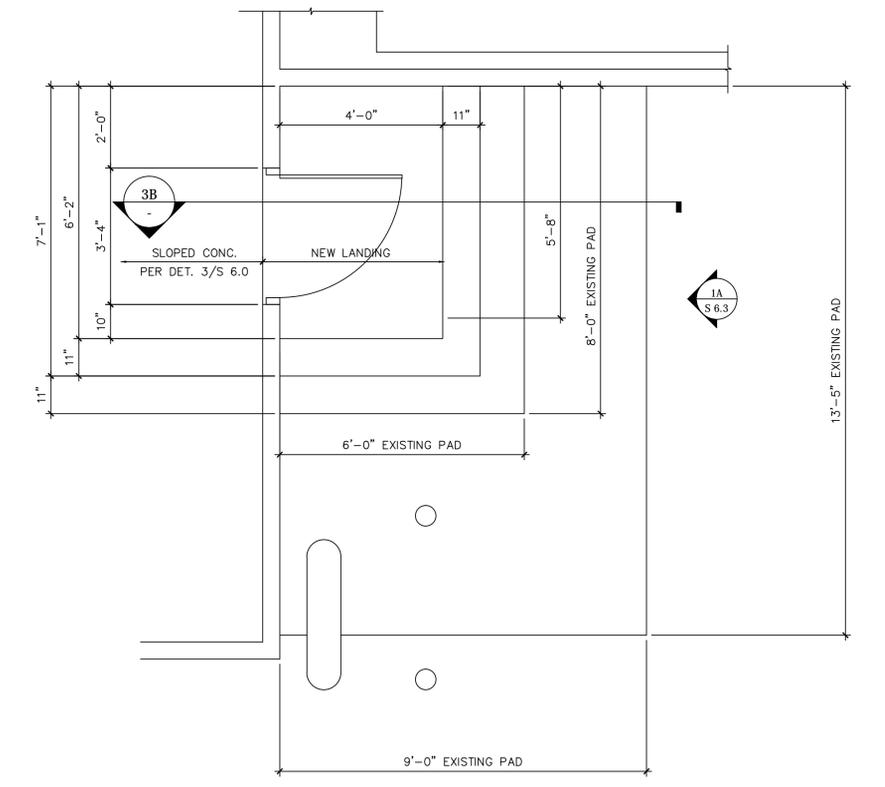


B: SECTION I

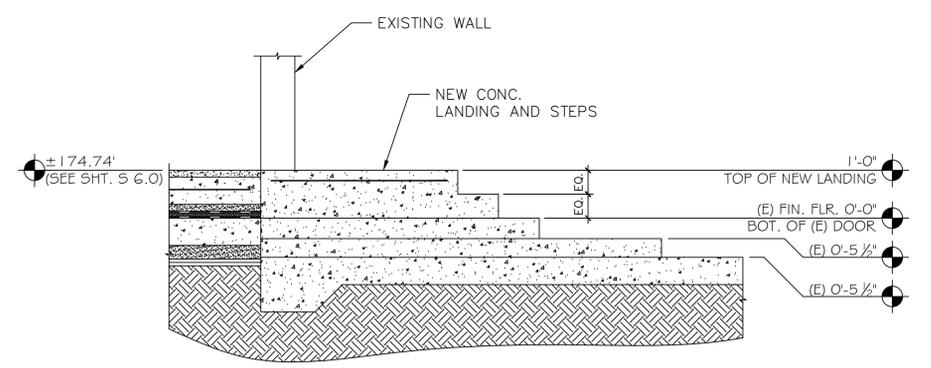


C: SECTION 2

2 NEW LANDING Scale: 1/2" = 1'-0"



A: PLAN



B: SECTION

3 NEW LANDING Scale: 1/2" = 1'-0"



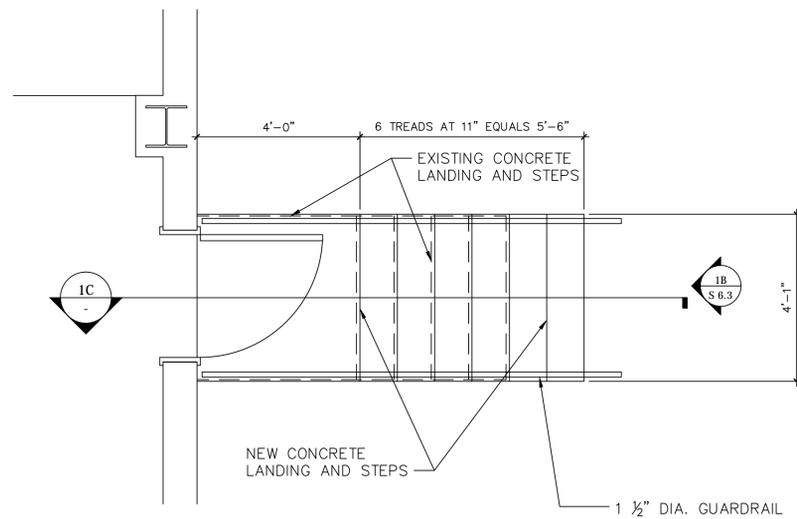
GENERAL NOTES:

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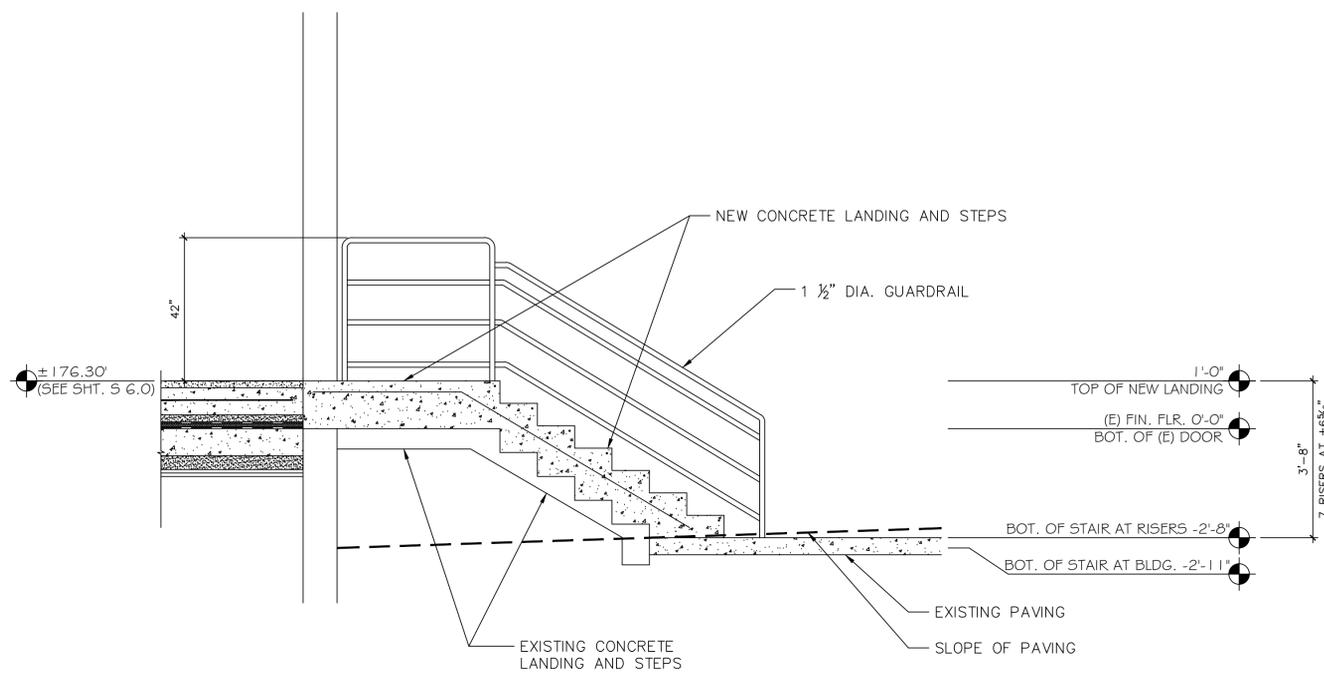
NO.	DATE	REVISIONS	BY	CHK'D.	DATE

ADVANCED CONSTRUCTORS CORP. 15906 CHEMICAL LN HUNTINGTON BEACH, CA 92649	
DRAWING RECORD INFORMATION	SCALE AS NOTED
DRW. NO. BOB CARROLL	DATE 2/12/2015
DRW. NO.	DATE
DRW. NO.	DATE

EXIDE TECHNOLOGIES	VERNON CA
DRAWING TITLE: DETAILS	
PROJECT NUMBER: 2014293-2	DRAWING TYPE: STRUCTURAL
DRAWING NUMBER: S 6.1	REV. NO.: 0



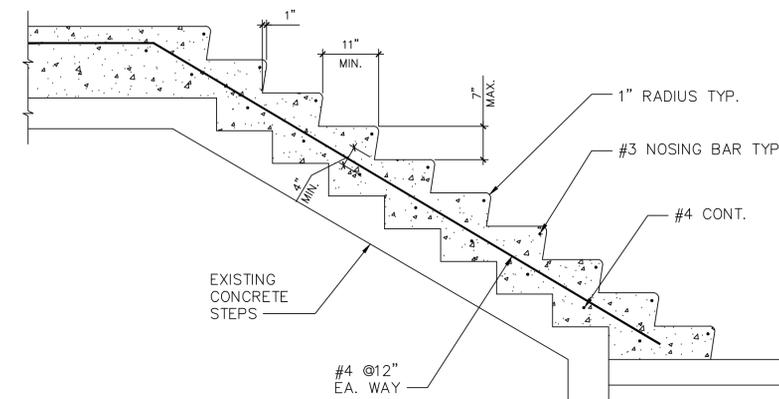
A: PLAN



B: SECTION

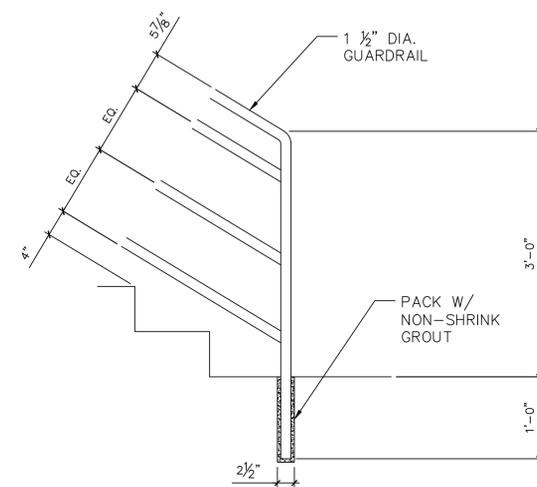
1 MODIFIED STAIRS

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



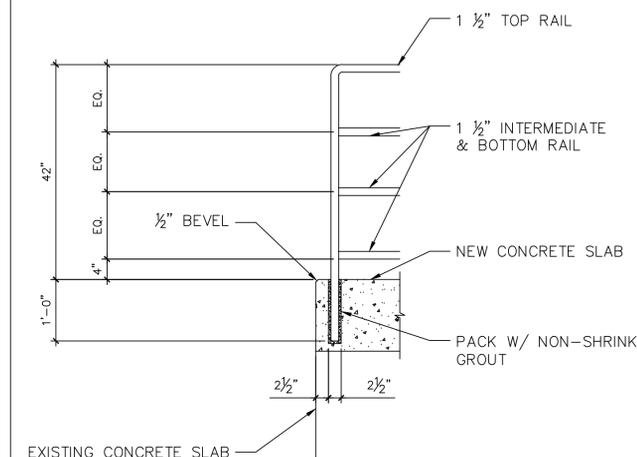
2 STAIR SECTION

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



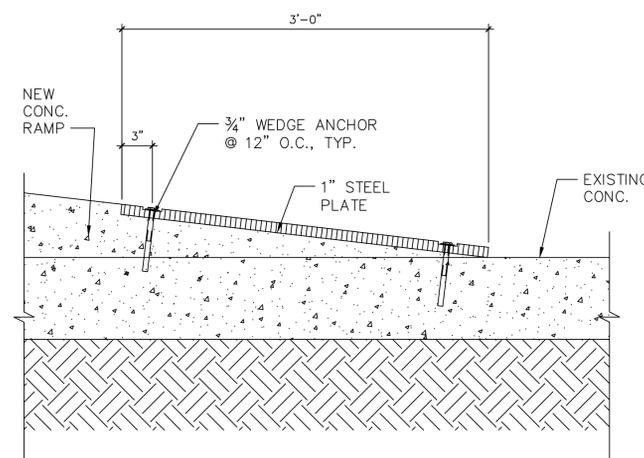
3 STAIRRAIL

Scale: 1" = 1'-0"



4 GUARDRAIL SECTION

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



5 RAMP PLATE

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

REVERB FURNACE FEED ROOM WALL ITEMS

UPPER FEED ROOM

1. North wall – concrete wall face deteriorated, rebar exposed
2. North wall – south end of partition wall is undercut
3. Northeast – hole in steel wall
4. Northeast – hole in apron feeder wall
5. Northeast – add curb to north door walkway, west and south sides of apron feeder to provide termination point for proposed floor. May need more discussion with Exide.
6. Northeast – repair curb at hopper.
7. Northeast – add curb at south side hopper to provide termination point for proposed floor. May need more discussion with Exide.
8. Northeast – deteriorated concrete on Baghouse Building side of wall.
9. East – repair curb at steel barn doors
10. East – damage at west end of partition wall
11. East – damaged sheet metal wall near barn doors
12. Southeast – steel plates bent away from wall.
13. Southeast – irregular wall bottom
14. Southeast – entrance into Lower feed – exposed wire and rebar projecting from wall.
15. Southeast – hole in concrete wall
16. South – missing and broken sheet metal panels
17. West – missing sheet metal panels
18. West – broken steel cross support
19. Northwest – 2'x2' approx. hole in wall
20. Northwest – partition wall damaged at east end, exposed rebar
21. Northwest – damaged concrete wall on RMPS side

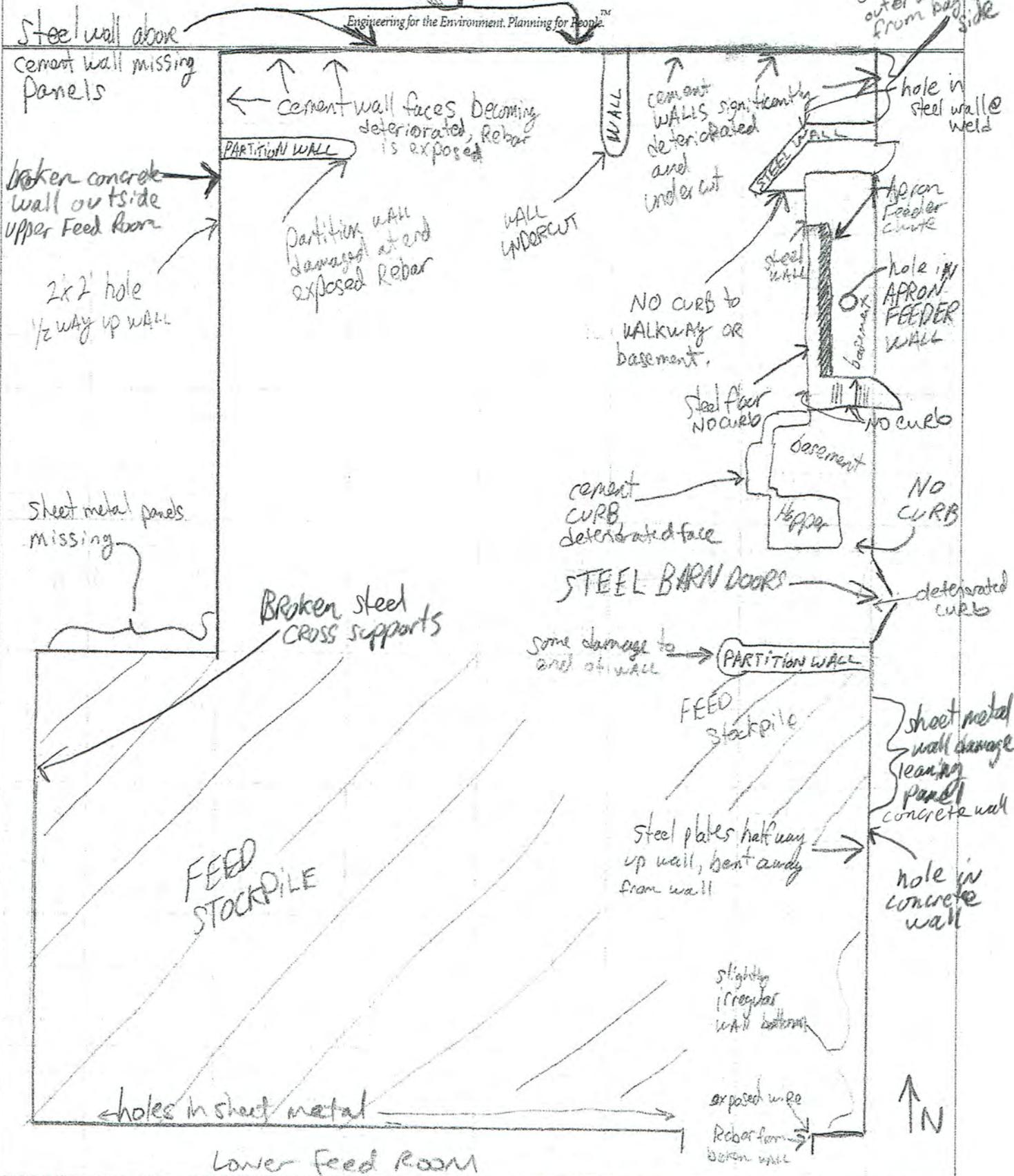
LOWER FEED (more items may be identified as room is emptied)

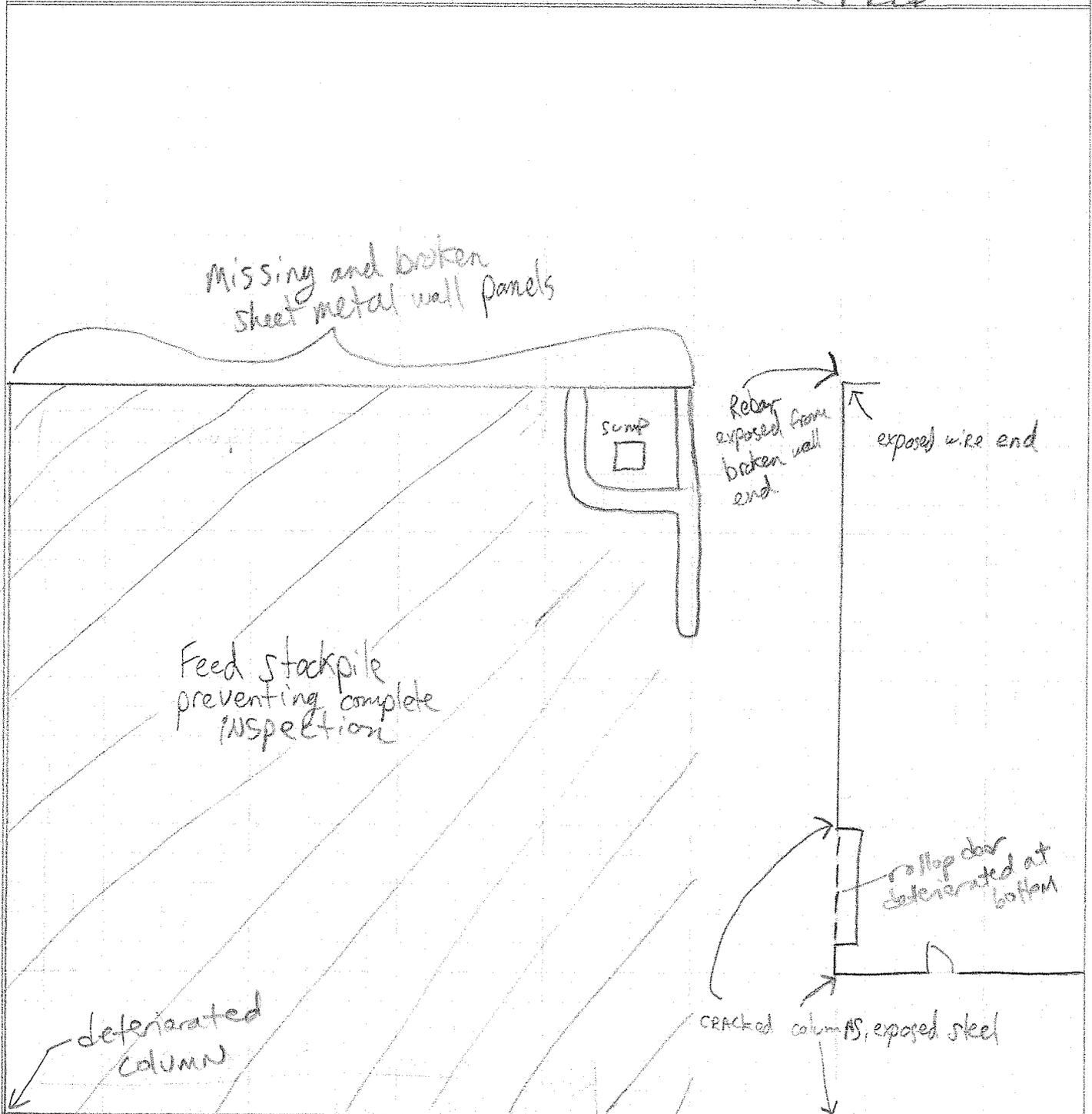
1. East – rollup door deteriorated at bottom
2. Southeast – cracked columns with exposed steel
3. Southeast – mandoor not sealed, daylight visible.
4. Southwest – deteriorated column

CORRIDOR

1. Northwest E-W section – steel plate exposed in broken column
2. North E-W section – wear on bottom of wall
3. West N-S section – steel plates bent
4. North N-S section – equipment wear on partition wall
5. East N-S section – columns deteriorated at entry to Blast Feed Room
6. East – wall cut for mandoor, but concrete in place

7. East – sheet metal bent away from wall
8. South – wear on wall





↑ N

man door not sealed
can see daylight @ jamb

SHEET <u>2</u> OF <u>3</u>	PROJECT NO. <u>2013-2993</u>	PROJECT NAME <u>Exide Vernon - Feed Room</u>
BY <u>MJP</u>	DATE <u>1/22/15</u>	DESCRIPTION <u>Lower Feed Wall Inspection</u>
CHK. BY _____	DATE _____	<u>Revised 2/24/15 JMD</u>

CORRIDOR

