Planning \$ / 0 ===	Drainage \$
TCP\$	School Impact \$

BLDG PERMIT NO.	
FILE # (419-2005-311	

# **PLANNING CLEARANCE**

(site plan review, multi-family development, non-residential development)

**Grand Junction Community Development Department** THIS SECTION TO BE COMPLETED BY APPLICANT

THE SECTION TO BE SE	(2943-221-15-201)
BUILDING ADDRESS 3199 D. 2.1	TAX SCHEDULE NO. 2943-221-01-004
SUBDIVISION CORN INDUSTRIAL PARK	SQ. FT. OF EXISTING BLDG(S) 32, 2055 (31, 500 5F)
FILING BLK/_ LOT/	SQ. FT. OF PROPOSED BLDG(S)/ADDITONS 648 57= SLAB ON GRADE
OWNER Hallibrator Everly Services  ADDRESS 3199 D R.d	MULTI-FAMILY: NO. OF DWELLING UNITS: BEFOREAFTER CONSTRUCTION
CITY/STATE/ZIP 6. J. Co 81504	NO. OF BLDGS ON PARCEL: BEFOREAFTERCONSTRUCTION
APPLICANT F.C.T. CONTRUCTORS	USE OF ALL EXISTING BLDG(S)   WDVSTRIAL
ADDRESS P.O. Box 1767	DESCRIPTION OF WORK & INTENDED USE: 12 x 54
CITY/STATE/ZIP 6.5. Co. 81502	ADDITION TO CURRENT BULK PLANT
TELEPHONE 970- 434-9093 - 210-1777 Submittal requirements are outlined in the SSID (Submittal	SLAB. Standards for Improvements and Development) document.
THIS SECTION TO BE COMPLETED BY COMM	
ZONE	LANDSCAPING/SCREENING REQUIRED: YESNO
	PARKING REQUIREMENT:
SETBACKS: FRONT: from Property Line (PL) or from center of ROW, whichever is greater SIDE: from PL REAR: from PL	SPECIAL CONDITIONS:
MAX. HEIGHT 40'	SPECIAL CONDITIONS.
MAX. COVERAGE OF LOT BY STRUCTURES FAR 2.00	
WAX. COVERAGE OF LOT BY STRUCTURES A A COVERAGE OF LOT BY STRUCTURES	
Modifications to this Planning Clearance must be approved, in writing authorized by this application cannot be occupied until a final inspection by the Building Department (Section 307, Uniform Building Code). Reprior to issuance of a Planning Clearance. All other required site im Certificate of Occupancy. Any landscaping required by this permi replacement of any vegetation materials that die or are in an unhealthy Code.	by the Community Development Department Director. The structure in has been completed and a Certificate of Occupancy has been issued equired improvements in the public right-of-way must be guaranteed provements must be completed or guaranteed prior to issuance of a stability to be maintained in an acceptable and healthy condition. The condition is required by the Grand Junction Zoning and Development
Four (4) sets of final construction drawings must be submitted and star stamped set must be available on the job site at all times.	mped by City Engineering prior to issuing the Planning Clearance. One
I hereby acknowledge that I have read this application and the informalisms, regulations, or restrictions which apply to the project. I understabut not necessarily be limited to non-use of the building(s).	ation is correct; I agree to comply with any and all codes, ordinances, nd that failure to comply shall result in legal action, which may include
Applicant's Signature D. KASNYTT	Date <u>5/4/2007</u>
Department Approval Julia Castella	Date 5/10/07
Additional water and/or sewer tap fee(s) are required: YES	NO WIO NO. NO Charge Subjective
Utility Accounting	Date 5 1007

VALID FOR SIX MONTHS FROM DATE OF ISSUANCE (Section 2.2.C.1 Grand Junction Zoning and Development Code)

(White: Planning) (Yellow: Customer) (Pink: Building Department) (Goldenrod: Utility Accounting)



### **Transmittal Cover Sheet**

Project:	t: Halliburton GJ - Bulk Plant Slab Addition			
Date:	May 9, 2007	Reference Number: 10-7-010		
Transmitt	ted To:	Transmitted By:		
COGJ Plar	nning Department	Dave Kasnoff		
Attn: Senta	a	FCI Constructors, Inc.		
		970.523.0578 direct		
		970.523.0572 fax		

· ·	kage Transmitted For:  nning Clearance  Hand		Tracking Number: n/a
Item #:	Qty:	Description:	Notes:
01	1	Planning Clearance Form	
02	2	<b>Proposed Construction Drawings</b>	3 Pages
03	1	Request for Planning Clearance	1 Page
04	1	State of CO Air Quality Permit	9 Pages
05	1	General Tank Information	2 Pages

### Remarks:

Senta,

Attached is the documentation you requested. As previously discussed your prompt response to this matter is greatly appreciated. Call with any questions.

Acknowledgement Required	
Signature / Title	Date Signed



## Construction Manager/General Contractor

May 8, 2007

City of Grand Junction Attn: Senta Costello 250 N. 5<sup>th</sup> Street Grand Junction, CO 81501

FCI Constructors, Inc. Dave Kasnoff, Project Engineer Halliburton Construction Site 3199 D Road Grand Junction, CO 81504

RE: Halliburton GJ - 12'x54' Bulk Plant Slab Addition

**Request for Planning Clearance** 

Dear Senta:

Halliburton would like to add an additional 12' x 54' slab to their existing bulk plant to house three (3) bulk storage tanks that are already on site. The proposed tanks are identical to those currently in use for storage of dry cement. This material does not pose any environmental hazard nor does it require any containment or fire suppression. The tanks are mounted on their own "skid" type bases and considered to be portable.

Attached for your review is a copy of the Construction Permit from the State of Colorado, City of Grand Junction fire department clearance, and some additional information on the tanks themselves. Clifton Fire is also aware of the project and did not foresee any issues from their end.

It is FCI's opinion that this project does not fall into any of the categories requiring a major/minor site plan review and does not fall outside the current CUP for the Halliburton site. FCI respectfully requests that the City of Grand Junction review the attached information and issue a planning clearance allowing us to proceed with obtaining a building permit.

Please do not hesitate to contact me direct with any questions or concerns.

Best regards

Dave Kasnoff
Project Engineer
FCI Constructors, Inc.
970.523.0578 direct
970.523.0572 fax
dkasnoff@fciol.com

CC:

Dave Ash – Project Manager – FCI Constructors, Inc.

FILE - 10-7-010

# STATE OF COLORADO

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT AIR POLLUTION CONTROL DIVISION TELEPHONE: (303) 692-3150



# **CONSTRUCTION PERMIT**

PERMIT NO:

03ME0602

DATE ISSUED:

**APRIL 9, 2007** 

INITIAL APPROVAL

MODIFICATION - 2

ISSUED TO:

Halliburton Energy Services, Inc.

THE SOURCE TO WHICH THIS PERMIT APPLIES IS DESCRIBED AND LOCATED AS FOLLOWS:

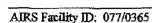
Facility for storage and distribution of materials for servicing of oil and gas wells located at 3199 D Road, Grand Junction, Mesa County, Colorado.

THE SPECIFIC EQUIPMENT OR ACTIVITY SUBJECT TO THIS PERMIT INCLUDES THE FOLLOWING:

This is a facility-wide permit covering all equipment / activities at this facility. Details of these equipment / activities are given in Attachatent A.

THIS PERMIT IS GRANTED SUBJECT TO ALL RULES AND REGULATIONS OF THE COLORADO AIR OF ALITY CONTROL COMMISSION AND THE CULORADO AIR PUBLICATION PREVENTION AND CONTROL ACT C.R.S. (25-7-181 grant), TO THOSE GENERAL FERMS AND CONDITIONS INCLUDED IN THIS DOCUMENT AND THE FOLLOWING SPECIFIC FERMS AND CONDITIONS:

- 1. All previous versions of this permit are canceled upon is there of this permit.
- In respect of cement and additives storage tanks, Tanks 16, 17, 18, and 19 (referenced under AIRS Point ID: 002) this pennit shall expire if the owner or operator: (i) does not commence construction/modification or operation of this source within 18 months after either the date of issuance of this initial approval permit of the date on which such construction or activity was scheduled to commence as set forth in the permit application associated with this permit; (ii) discontinues construction for a period of eighteen months or more; or (iii) does not complete construction within a reasonable time of the estimated completion date (See General Condition No. 6., Item 1.). Upon a showing of good cause by the permittee, the Division may grant extensions of the permit. (Reference: Regulation No. 3, Part B, Section III.F.4.)
- 3. The particulate emission control measures listed on the attached page (as approved by the Division) shall be applied to the particulate emission producing sources as required by Regulation No. 1, Section III.D.1.b.



Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval – Modification-2

- 4. In respect of emission sources for which compliance is not already demonstrated, within one hundred and eighty days (180) after commencement of operation, compliance with the conditions contained on this permit shall be demonstrated to the Division. It is the permittee's responsibility to self certify compliance with the conditions. Failure to demonstrate compliance within 180 days may result in revocation of the permit. (Information on how to certify compliance was mailed with the permit.)
- Prevention of Significant Deterioration (PSD) requirements shall apply to this source at any such time that this source becomes major for PSD solely by virtue of a relaxation in any permit condition. Any relaxation that increases the potential to emit above the applicable PSD threshold will require a full PSD review of the source as though construction had not yet commenced on the source. The source shall not exceed the PSD threshold until a PSD permit is granted. (Reference: Regulation No.3, Part D, Section VI.B.4.)
- 6. Operating Permit (OP) requirements shall apply to this source at any such time that this source becomes major for OP solely by virtue of a relaxation in any permit limitation. Any relaxation that increases the potential to emit above the applicable OP threshold shall require submittal of and issuance of an operating permit, under Regulation No. 3, Part C.
- 7. The applicant shall follow the most current operating and maintenance plan and record keeping format approved by the Division in order to demonstrate compliance on an ongoing basis with the requirements of this permit. The plan shall be suitably amended / supplemented to address the charges since it was approved by the Division. (Reference: Regulation No. 3, Part B, Section III.G.7.)
- 8. AIRS Point ID numbers (for example, "AIRS PT ID: 002F") shall be marked on the subject equipment for ease of identification. (Reference: Regulation No. 3, Part B, Section III.E.) (State only enforceable)
- 9. Visible emissions shall not exceed twenty percent (20%) opacity during normal operation of the source. During periods of startup, process modification, or adjustment of control equipment visible emissions shall not exceed 30% opacity for more than six minutes in any sixty consecutive minutes. Opacity shall be measured by EPA Method 9. (Reference: Regulation No. 1, Section II.A.1. & 4.)
- 10. The manufacturer, model number and serial number of the subject equipment shall be provided to the Division within one hundred and eighty days (180) after commencement of operation. (Reference: Regulation No. 3, Part B, Section III.E.)

Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval – Modification-2

11. This source shall be limited to materials storage and handling rates as listed below and all other activities, operational rates and numbers of equipment as stated in the application. Compliance with the yearly production limits shall be determined on a rolling twelve (12) month total. Monthly records of the actual materials storage and handling rates shall be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation No. 3, Part B, Section ILA.4.)

Storage and handling of cement and additives, together, shall not exceed 75,000 tons per year. Storage and handling of Hydrochloric Acid (15 % w/w) shall not exceed 3,000,000 gallons per year.

12. Emissions of air pollutants shall not exceed the following limitations (as calculated in the Division's preliminary analysis). Compliance with the annual limits shall be determined on a rolling (12) month total. By the end of each month a new twelve month total is calculated based on the previous twelve months' data. The permit holder shall calculate monthly emissions and keep a compliance record on site for Division review. (Reference: Regulation No. 3, Part B, Section II.A.4)

Particulate Matter: 0.2 ton per year.

PM10 (Particulate Matter<10 μm): 0.2 ton per year.

Particulate Matter - Fagitive: 3.8 tons per year.

PM10 (Particulate Matter<10 μm) - Fugitive: 1.0 ton per year.

Hydrochloric Acid: 180 pounds per year.

Compliance with the fugilive particulate matter emission limits shall be demonstrated by not exceeding the storage and handling limits, and by the application of the emission control measures.

13. Cement and additives handling system shall be equipped with dust collectors capable of reducing uncontrolled emissions of Particulate Matter and Particulate Matter less than 10 micrometers diameter (PM10), by at least 99.9 %.

Hydrochloric Acid storage and handling system shall be equipped with wet scrubbers capable of reducing uncontrolled emissions of Hydrochloric Acid by at least 99 %.

These control devices shall be inspected, monitored, maintained / renewed, and operated as per the recommendations of the manufacturers to ensure ongoing satisfactory performance.

Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval - Modification-2

- 14. A Revised Air Pollutant Emission Notice (APEN) shall be filed: (Reference: Regulation No. 3, Part A, Section II.C.)
  - a. Annually whenever a significant increase in emissions occurs as follows:

#### For any criteria pollutant:

For sources emitting less than 100 tons per year, a change in actual emissions of five tons per year or more, above the level reported on the last APEN submitted.

#### For any non-criteria reportable pollutant:

If the emissions increase by 50% or five (5) tons per year, whichever is less, above the level reported on the last APEN submitted to the Division.

- b. Whenever there is a change in the owner or operator of any facility, process, or activity; or
- c. Whenever new control equipment is installed, or whenever a different type of control equipment replaces an existing type of control equipment; or
- d. Whenever a permit limitation must be modified; or
- e. No later than 30 days before the existing APEN expires. APEN/s expires five (5) years from the date/s of submittal.

Ram N. Seetharam

Permit Review Engineer

R K Hancock HL P.E.

Construction Permits Unit Supervisor

#### Permit History:

Date	Action	Description
This issuance	IA Modification-2	Addition of cement and additives storage tanks, Tanks 16, 17, 18 and 19. Increase in cement and additives storage and handling limit from 50,000 to 75,000 tpy.
November 17, 2005	IA Modification-1	Barite storage and handling discontinued. AIRS Point ID: 003 inactivated. Add HCl storage and handling (AIRS Point ID: 004) system. Increase in cement and additives storage and handling limit.
January 27, 2004	IA	Initial Approval. Issued to Halliburton Energy Services, Inc.

Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval – Modification-2

#### APEN Submittal Log (to be maintained further by the permittee):

AIRS Point ID: 077/0365/002 - Cement and Additives Storage and Handling

APEN Submittal Date	APEN Expiry Date	Renewal APEN to be submitted by	Remarks
July 21, 2006	July 21, 2011	June 21, 2011	

AIRS Point ID: 077/0365/004 - Hydrochloric Acid Storage and Handling

APEN Submittal Date	APEN Expiry Date	Renewal APEN to be submitted by	Remarks
May 26, 2005	May 26, 2010	April 26, 2010	
<del></del>			

#### Notes to Permit Holder:

- The materials storage and handling, and emission limits contained in this permit are based on those requested in the permit application. These limits may be revised upon request of the permittee providing there is no exceedance of any specific emission control regulation or any ambient air quality standard. A revised air pollution emission notice (APEN) and application form must be submitted with a request for a permit revision.
- This source is subject to the Common Provisions Regulation Part II, Subpart E, Upset Conditions and Breakdowns. The permittee shall notify the Division of any upset condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than two (2) hours after the start of the next working day, followed by written notice to the Division explaining the cause of the occurrence and that proper action has been or is being taken to correct the conditions causing said violation and to prevent such excess emission in the future.
- This facility is classified as a:
  Synthetic Minor Source for Prevention of Significant Deterioration (PSD) applicability
  Synthetic Minor Source for Operating Permit applicability
  Synthetic Minor Source of Hazardous Air Pollutants.

Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval – Modification-2

4) The emission levels contained in this permit are based on the following emission factors:

AIRS Point ID: 077/0365/002 - Cement and Additives Storage and Handling (pounds per ton):

Pollutant	EmiFactor	Emission Controls	Cont.Eff.
Particulate Matter - process	5.0400	Fabric filter baghouses	99.90
PM10 - process	3.2200	Fabric filter baghouses	99.90
Particulate Matter - Fugitive	0.3218	Control Measures	70.00
PM10 - Fugitive	0.0836	Control Measures	70.00

AIRS Point ID: 077/0365/004 – Hydrochloric Acid (15 % w/w) Storage and Handling (pounds per 1000 gallons)

Pollutant	EmiFactor	Emission Controls	Cont.Eff.
Hydrochloric Acid	6.0140	Wet Scrubber	90.00

5) The following emissions of non-criteria reportable air pollutants are established based upon the materials storage and handling as indicated in this permit. This information is listed to inform the operator of the Division's analysis of the specific compounds. This information is listed on the Division's emission inventory system.

<u>C.A.S.#</u>	SUBSTANCE	EMISSIONS [LB/YR]
7647-01-0	Hydrochloric acid	180

Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval – Modification-2

#### PARTICULATE EMISSIONS CONTROL PLAN FOR MATERIAL PROCESSING ACTIVITIES

THE FOLLOWING PARTICULATE EMISSIONS CONTROL MEASURES SHALL BE USED FOR COMPLIANCE PURPOSES ON THE ACTIVITIES COVERED BY THIS PERMIT, AS REQUIRED BY THE AIR QUALITY CONTROL COMMISSION REGULATION NO.1, Section III.D.1.b. THIS SOURCE IS SUBJECT TO THE FOLLOWING EMISSION GUIDELINES:

- a. Processing Activities Visible emissions not to exceed 20% opacity, no off-property transport of visible emissions.
- b. Haul Roads No off-property transport of visible emissions shall apply to on-site haul roads, the nuisance guidelines shall apply to off-site haul roads.
- c. Haul Trucks There shall be no off-property transport of visible emissions from haul trucks when operating on the property of the owner or operator. There shall be no off-vehicle transport of visible emissions from the material in the haul trucks when operating off of the property of the owner or operator.

#### **Control Measures**

- 1. Plant entryway, truck service roads, and other areas used in connection with the activities shall be treated with chemical stabilizers, and watered regularly.
- Vehicle speed on haul roads and service roads shall be restricted to 5 miles per hour. Speed limit signs shall be posted.

Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval – Modification-2

# All Folididon Control Division

		•	ATTACHMI	ENT A	
	De	tails of equip	oment / activities covere	d under this facility-w	
AIRS	Description			Remarks/	
PTID	<u> </u>				Specific Provisions
002		and Additive	Compliance Plan		
	Tank	Capacity	ipped with a pneumatic  Material Stored	Emission	<u> </u>
	ID	cubic feet	Machial Dioled	Control by	•
002A	TI	2560	Cement or Additive	Baghouse C5,	All baghouses
002B	T2	2560	Cement or Additive	25 bags. Truck	achieve a control
002C	T3	2560	Cement or Additive	loading (shipping)	efficiency of at least
002D	T4	2560	Cement or Additive	emissions also	99.9 % for both PM
002E	T5	2560	Waste	routed to this	and PM10.
002E	T6	2560	Cement or Additive	baghouse.	
002G	T7	1250	Waste		
002H	T8	2560	Cement or Additive	-	
002J	Ť9	2560	Cement of Additive	<b></b>	
002L	Ť11	410	Blend	Baghouse C4,	
				30 bags	
002M	T12	410	Blend	Baghouse C3,	
- AAAA +		44.0		30 bags	<u> </u>
002N	T13	410	Scale Tank	Baghouse C2, 30 bags	
002K	T10	2560	Cement or Additive	Bagbouses C6 and	
002P	T14	2560	Cement or Additive	C7, 13 bags each	
002Q	T15	2560	Coment or Additive	1	
002R	T16	2560	Comem or Additive	Existing	T16, T17, T18 and
002T	TI7	2560	Comen or Additive	Baghouses C6 and	T19, to be
002U	TI8	2560	Cement or Additive	C7	constructed.
002V	T19	4000	Cement or Additive	1	T19 Horizontal Tank
002W	On-site vehicular traffic. Fugitive Particulate Matter emission				Control Measures.
	sources.	<u> </u>			
004	Hydrochloric Acid Storage, Blending, Handling				
004A	Storage Tank #1, 8,500 gallons, for storage of HCl (35 % w/w)				
004B	Storage Tank #2, 8,500 gallons, for storage of HCl (35 % w/w)				
004C	Blend Ta	nk #3, 6,000	gallons, for blend HCl (	(15 % w/w)	
	Emission Chemical scrubber.	Compliance Plan 99 % Control			
					End of Attachment A.

Halliburton Energy Services, Inc. Permit No. 03ME0602 Initial Approval – Modification-2

#### GENERAL TERMS AND CONDITIONS: (IMPORTANT! READ ITEMS 5.6.7 AND 8)

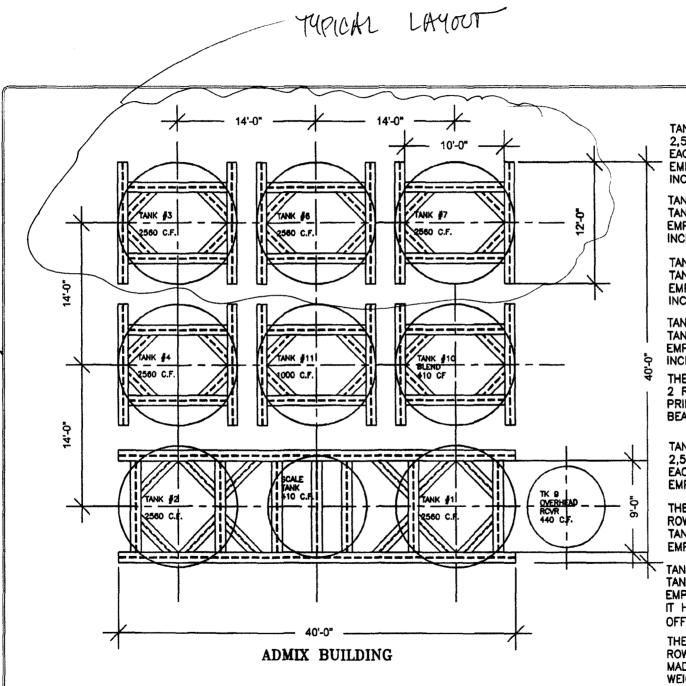
- 1. This permit is issued in reliance upon the accuracy and completeness of information supplied by the applicant and is conditioned upon conduct of the activity, or construction, installation and operation of the source, in accordance with this information and with representations made by the applicant or applicant's agents. It is valid only for the equipment and operations or activity specifically identified on the permit.
- Unless specifically stated otherwise, the general and specific conditions contained in this permit have been
  determined by the APCD to be necessary to assure compliance with the provisions of Section 25-7114.5(7)(a), C.R.S.
- 3. Each and every condition of this permit is a material part hereof and is not severable. Any challenge to or appeal of, a condition hereof shall constitute a rejection of the entire permit and upon such occurrence, this permit shall be deemed denied ab initio. This permit may be revoked at any time prior to final approval by the Air Pollution Control Division (APCD) on grounds set forth in the Colorado Air Quality Control Act and regulations of the Air Quality Control Commission (AQCC), including failure to meet any express term or condition of the permit. If the Division denies a permit, conditions imposed upon a permit are contested by the applicant, or the Division revokes a permit, the applicant or owner or operator of a source may request a hearing before the AQCC for review of the Division's action.
- 4. This permit and any required attachments must be retained and made available for inspection upon request at the location set forth herein. With respect to a portable source that is moved to a new location, a copy of the Relocation Notice (required by law to be submitted to the APCD whichever a portable source is relocated) should be attached to this permit. The permit may be reissued to a new owner by the APCD as provided in AQCC Regulation No. 3, Part B, Section II.B. upon a request for transfer of ownership and the submittal of a revised APEN and the required fee.
- Issuance (initial approval) of an emission permit does not provide "final" authority for this activity or operation of this source. Final approval of the permit must be secured from the APCD in writing in accordance with the provisions of 25-7-114.5(12)(a) C.R.S. and AQCC Regulation No. 3, Part B, Section III.G. Final approval cannot be granted until the operation of activity commences and has been verified by the APCD as conforming in all respects with the conditions of the permit. If the APCD so determines, it will provide written documentation of such final approval, which does constitute "final" authority to operate. Compliance with the permit conditions must be demonstrated within 180 days after commencement of operation.
- 6. THIS PERMIT AUTOMATICALLY EXPINES IF you (1) chount continence construction or operation within 18 months after either the date of issuance of this permit, or the date on which such construction or activity was scheduled to commence as set forth in the permit, whichever is later; (2) discontinue construction for a period of 18 months or users; or (3) dir not complete sometimes within a reasonable time of the estimated completion date. Extensions of the expiration date may be granted by the APCD upon a showing of good cause by the permittee prior to the expiration date.
- 7. YOU MUST notify the APCD at least thirty days (fifteen days for portable sources) prior to commencement of the permitted operation or activity. Failure to do so is a violation of Section 25-7-114.5(12)(a), C.R.S. and AQCC Regulation No. 3, Part B, Section III.G.1., and can result in the revocation of the permit. You must demonstrate compliance with the permit conditions within 180 days after commencement of operation as stated in condition 5.
- 8. Section 25-7-114.7(2)(a), C.R.S. requires that all sources required to file an Air Pollution Emission Notice (APEN) must pay an annual fee to cover the costs of inspections and administration. If a source or activity is to be discontinued, the owner must notify the Division in writing requesting a cancellation of the permit. Upon notification, annual fee billing will terminate.
- 9. Violation of the terms of a permit or of the provisions of the Colorado Air Pollution Prevention and control Act or the regulations of the AQCC may result in administrative, civil or criminal enforcement actions under Sections 25-7-115 (enforcement), -121 (injunctions), -122 (civil penalties), -122.1 (criminal penalties), C.R.S.

Note: Allow a minimum of ten (10) working days for plan review

### GRAND JUNCTION FIRE DEPARTMENT CLEARANCE FORM

PROJECT NAME:	PROJECT ADDRESS:	BUILDING USE: (SEE ATTACHED)					
HALLBURTON	3199 0 120AD, 61 CO 81504	BUILDING USE: (SEE ATTACHED)					
CONTRACTOR NAME:	CONTACT NAME:	CONTACT PHONE NUMBER:					
Fer CONSTRUCTIONS	DAUE KASNOTT	523-0578					
FOR OFFICE USE ONLY							
PLAN REVIEW DATE COMPLETED:							
Stamped Building Plans	Minor Project						
FIRE PROTECTION SYSTEM	DATE C	DATE COMPLETED:					
☐ System Plans ☐ Hydraulic Calculations ☐ Component Cut Sheets ☐ CO State Registration Form							
FIDE ALADAS OVOTES							
FIRE ALARM SYSTEM		COMPLETED:					
System Plans Component Cut Sheets Battery Calculations							
HOOD EXTINGUISHING SYSTEM	DATE COMPLETED:						
System Plans Componer	t Cut Sheets						
SPRAY BOOTH	DATE C	COMPLETED:					
☐ Building Plans							
Extinguishing Systems: Water (see Fire Protection System above for requirements) Chemical (see Hood Extinguishing System above for requirements)							
KNOX-BOX REQUIRED?	☐ Ye	s 🗌 No					
*Fire Department-approved plans must be on site during required inspections  *For final inspection, call 256-1564 (IVR INSPECTION CODES: 00 for Underground Fire Lines; 02 for Sprinkler Systems; 04 for Alarm System; 06 for Hood System; 08 for Spray Booth; 10 for Smoke Test; 12 for AST/UST; 20 for Fire Final)  *REVIEW COMMENTS*							
ren ap	proves to applicate for addition	of bulk slub					
- No in spection requires.							
		wochenge					
REVIEWER'S NAME:	les Wallis DATE:	5/4/07 TIME: 3:45					
I HAVE READ AND UNDERSTAND THE REVIEW COMMENTS INDICATED ABOVE AND REQUIREMENTS:							
Applicant's Signature	5 4 57 Date	Fee Paid					

PENDESAN DISANINOS AR JANE / Na 4TIKELED ADDITION FORWANON (g) TUREE Q



TANKS #3, #6 & #7 ARE 2,560 CU. FT. TANKS AND EACH WEIGHS 16,700 LBS EMPTY & 250,000 LBS FULL INCLUDING BASE

TANK #4 IS A 2,560 CU. FT. TANK AND WEIGHS 16,700 LBS EMPTY & 250,000 LBS FULL INCLUDING BASE

TANK #11 IS A 1,000 CU. FT. TANK AND WEIGHS 14,700 LBS EMPTY & 90,000 LBS FULL INCLUDING BASE

TANK #10 IS A 410 CU. FT. TANK AND WEIGHS 11,700 LBS EMPTY & 49,000 LBS FULL INCLUDING BASE

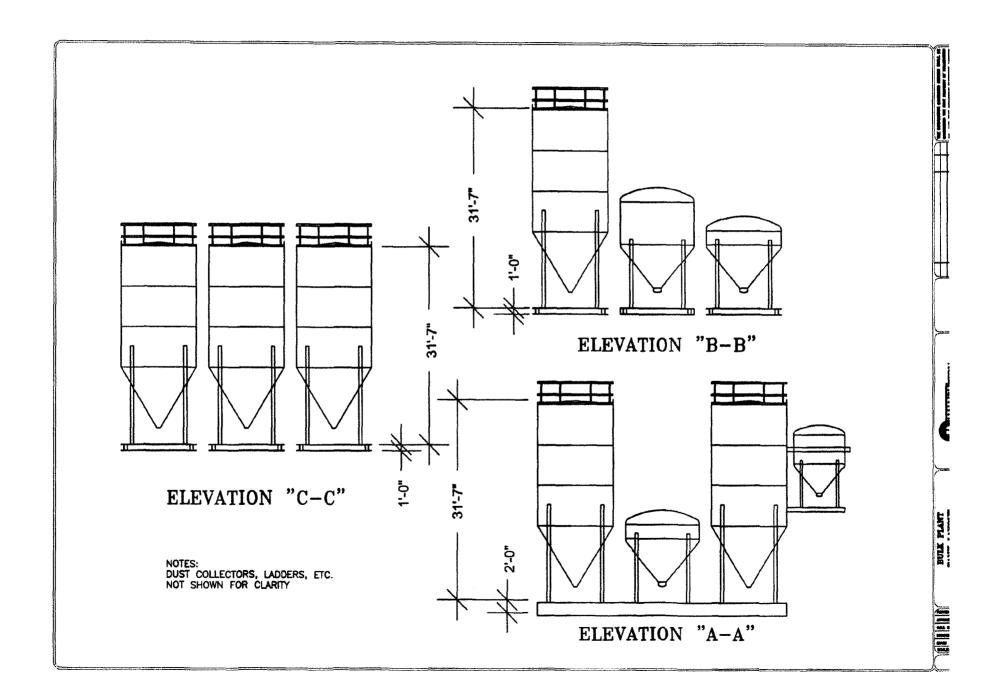
THE BASES FOR THE BACK 2 ROWS OF TANKS ARE PRIMARILY MADE OF 12W65 BEAMS

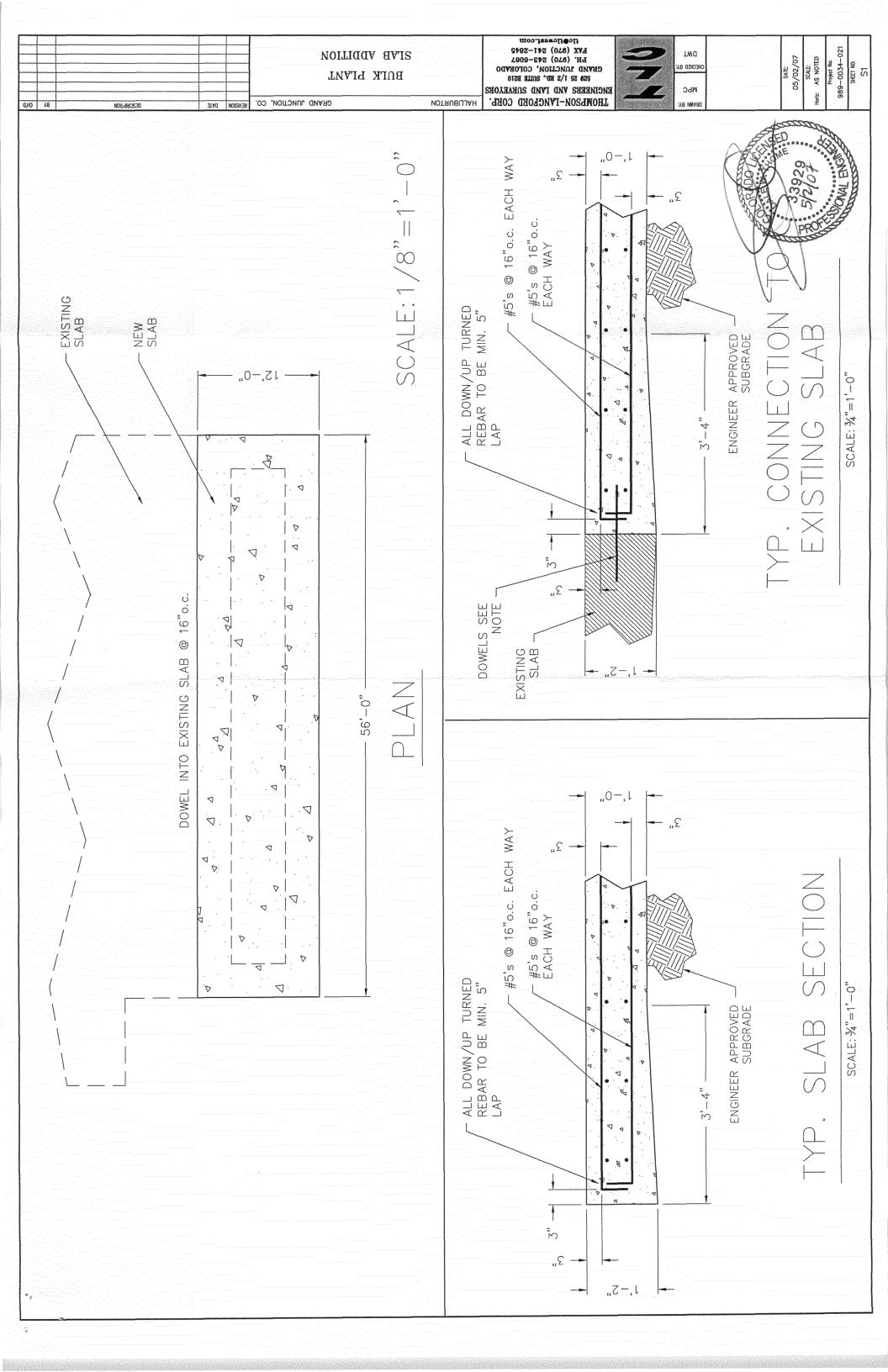
TANKS #1 & #2 ARE 2,560 CU. FT. TANKS AND EACH WEIGHS 12,000 LBS EMPTY & 245,000 LBS FULL

THE CENTER TANK IN THE FRONT ROW OF TANKS IS A 410 CU. FT. TANK AND WEIGHS 7,000 LBS EMPTY & 44,000 LBS FULL

TANK #9 IS A 440 CU. FT.
TANK AND WEIGHS 7,000 LBS
EMPTY & 44,000 LBS FULL
IT HAS NO BASE & HANGS
OFF OF TANK #1

THE BASE FOR THE FRONT ROW OF TANKS IS PRIMARLILY MADE OF 24W100 BEAMS & WEIGHS APPROX. 27,000 LBS.





# General Notes and Specifications

#### CONCRETE

- 1. ALL CONCRETE DESIGN, MATERIALS AND CONSTRUCTION SHALL CONFORM TO ACI STANDARD 318-05, THE IbC 2006 EDITION, THE CRSI MANUAL OF STANDARD PRACTICE AND THE PROJECT SPECIFICATIONS. ALL AGGREGATE SHALL BE ANGULAR AND SHALL BE IN ACCORDANCE WITH APPLICABLE IBC STANDARDS.
- 2. CEMENT FOR CONCRETE SHALL BE TYPE-II PORTLAND CEMENT IN ACCORDANCE WITH ASTM C150 AND ALL APPLICABLE IRC STANDARDS.
- 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:

SLABS ON GRADE 4500 PSI CEMENT TYPEI/II

- 4. ALL REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, EXCEPT PILASTER TIES, GRADE BEAM STIRRUPS, AND DOWELS MAY BE GRADE 40. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
- 5. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE ACI DETAILING MANUAL, LATEST EDITION. THE USE OF HEAT WHILE BENDING BARS WILL NOT BE PERMITTED. FORMWORK SHALL BE DESIGNED, ERECTED AND REMOVED IN ACCORDANCE WITH THE SPECIFICATIONS.
- 6. REINFORCEMENT SHALL BE PLACED SO THAT THE FOLLOWING MINIMUM CONCRETE PROTECTION IS PROVIDED UNLESS NOTED OTHERWISE.

CONCRETE SURFACES POURED AGAINST GROUND 3" CLEAR

FORMED SURFACES EXPOSED TO GROUND OR WEATHER

BARS #6 AND LARGER 2" CLEAR BARS #5 AND SMALLER 1-1/2" CLEAR SLABS ON GRADE AT CENTERS

ALL BARS TO BE CONTINUOUS AROUND CORNERS

- 7. REINFORCEMENT SHALL BE SECURELY TIED AND SHALL BE SUPPORTED WITH METAL OR PLASTIC CHAIRS OR HUNG FROM FORMS.
- 8 ALL FOUNDATION EXCAVATIONS, BACKFILL AND COMPACTION TO BE INSPECTED AND CERTIFIED BY ENGINEER. ALL REPORTS ARE TO BE SUBMITTED TO THE ENGINEER BEFORE SLABS ARE POURED.
- 9. ALL BACKFILL SHALL BE COMPACTED TO MINIMUM OF 90% M.P. ASTM D-1557.
- 10. EXCAVATION SHALL BE OBSERVED BY ENGINEER PRIOR TO PLACING CONCRETE.
- 11. REINFORCING SHALL NOT CONTINUE ACROSS DOWEL JOINTS. DOWELS SHALL NOT BE ATTACHED TO THE REINFORCING STEEL. DOWEL JOINTS TO BE CONSTRUCTED USING #8 SMOOTH BARS, 18" LONG, WITH ONE END CAPPED AND LUBRICATED. DOWELS TO BE PLACED AT 16" CENTERS AND MUST BE PLACED SQUARE WITH THE JOINT AND LEVEL WITH THE SLAB SURFACE.
- 12. THE UPPER 24" OF THE SOILS BENEATH THE FOUNDATION CONCRETE IS TO BE STRUCTURAL FILL. ANY ESISTING LOW-DENSITY SOIL SHOULD BE REMOVED FROM BELOW THE PROPOSED BOTTOM OF SLAB ELEVATION AND THE OPEN EXCAVATION CLOSELY EXAMINED FOR ADEQUATE OVER-EXCAVATION AND EXPOSURE OF PROPER BEARING SOILS. UPPER 8" OF THE SUBGRADE SOILS ARE TO BE MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM OF 90% M.P.
- 13. LIMITS OF OVEREXCAVTION AND STRUCTURAL FILL TO EXTEND 4 FEET BEYOND THE EDGE OF THE CONCRETE SLAB. REPLACE ALL UNSUITABLE SOILS WITH PREAPPROVED NATIVE GRAVEL SOILS OR IMPORT A COARSE-GRAINED, NON-EXPANSIVE, NON-FREEDRAINING, MAN-MADE STRUCTURAL FILL AND PLACE IN THE OVEREXCAVATED PORTION OF THE SITE.
- 14. PLACE STRUCTURAL FILL IN 6" LIFTS. THE STRUCTURAL FILL SHOULD BE COMPACTED TO A MINIMUM OF 90% M.P. GEOTEXTILES MAY BE REQUIRED IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED.
- 18. CAST-IN-PLACE CONCRETE SHALL BE SUBJECT TO TESTING BY AN INDEPENDENT TESTING LABORATORY AS FOLLOWS: 3 TEST CYLINDERS PER 50 YARDS.

CO. REVISION DATE DESCRIPTION BY

PLANT

BULK PLANT

HALLIBURION

EES AND LAND SURVEYOR
22 25 1/2 RD, SUITE B210
ND JUNCTION, COLORADO
PH. (970) 243-6067
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MPC CHECKED BY

DATE:
05/02/07
SCALE:
Horiz: AS NOTED
Project No:

Project No: 989-0034-021 SHEET NO: